

RFB-2026-014
CONTRACT DOCUMENTS
for the
WEST LIBERTY & JAMES STREET PARKING
LOTS
City of Rome, Oneida County, New York



City of Rome
198 North Washington Street
Rome, New York 13440



Delta Engineers, Architects, & Surveyors
860 Hooper Road, Endwell, NY 13760

JUNE 2026

This document was prepared with funding provided by Empire State Development

WEST LIBERTY & JAMES STREET PARKING LOTS
CITY OF ROME, ONEIDA COUNTY, NEW YORK

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WEST LIBERTY & JAMES STREET PARKING LOTS
CITY OF ROME, ONEIDA COUNTY, NEW YORK

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BID ADVERTISEMENT

Sealed proposals will be received by the City Clerk of the City of Rome, New York, until **11:00 A.M. local time July 9, 2026** for the following project:

RFB-2026-014

West Liberty & James Street Parking Lots

PROJECT DESCRIPTION

Work includes limited traffic controls, removal of the existing pavements and millings, installation of new granite curbs, concrete sidewalks and asphalt parking pavement and striping in two separate parking lots.

Project Location: West Liberty & James Street

Owner: City of Rome

Owner's Representative: Matt Andrews
City of Rome
198 Washington St., Rome NY, 13440
315-339-7628
mandrews@romeny.gov

Architect / Engineer: Delta Engineers, Architects, & Surveyors
860 Hooper Road
Endwell, NY 13760

Engineer's Representative: Michael Haas, RLA, ASLA
Phone: (607) 231-6631
mhaas@delta-eas.com

BID OPENING

Bid will be publicly opened and read aloud at 11:00 A.M., local time, July 9, 2026 at 198 North Washington St., Rome, NY, 13440, Rome City Hall, 2nd Floor, Council Chambers.

BID SUBMITTAL & FORMS

All bids must be received no later than submission deadline listed above. The City of Rome will not accept late bid submissions. Electronic submissions are not permitted for these bidding documents.

All bids shall be made on forms furnished and shall be enclosed in a sealed envelope marked to the attention of the City Clerk as follows:

RFB-2026-014
West Liberty & James Street Parking Lots
(Bidders Name)

BID MATERIALS

Complete sets of the plans, specifications and bid forms will be advertised electronically at:

- <http://www.romenewyork.com/treasurer-purchasing/>
- <https://www.bidnetdirect.com/new-york/city-of-rome>
- <https://www.nyscr.ny.gov/>

Contract documents will **ONLY** be provided digitally. Hard copies, CD's, or other digital media will **NOT** be distributed.

OFFICIAL PLAN HOLDERS LIST

Bidders who intend to submit a bid must call or email to be placed on the official plan holders list.

Contractors that obtain contract documents from a source other than the issuing locations must notify the City of Rome in order to be placed on the official plan holder's list, in order to receive addenda and other bid correspondence. Bids received from contractors other than those on the official plan holder's list will not be accepted. To be placed on the official plan holders list please contact the Community and Economic Development Department at (315) 339-7643.

ADDENDA

The City will not issue Addenda, nor will its Engineer issue addenda nor respond to bidder's questions five (5) calendar days prior to the scheduled bid opening unless stated bid date is postponed. Any questions shall be addressed by email only prior to this deadline to the Engineer's Representative noted above.

PRE-BID CONFERENCE & PROJECT QUESTIONS

No pre-bid conference will be held for this bid. Questions received in writing and orally during the meeting will be added to any official Addendum to be issued.

BID SECURITY

Bids shall be accompanied by money order, certified check, or bid bond in the amount of 5% of the total bid price, payable to the City Treasurer, City of Rome, Rome New York. No bidder may withdraw their bid within sixty (60) calendar days after the actual date of the opening thereof. Incomplete bids will be disqualified.

SPECIAL BID LANGUAGE

In accordance with the requirements of Article 15-A of the New York State Executive Law, projects awarded funding shall be reviewed by ESD's Office of Contractor and Supplier Diversity ("OCSD"), which will, where applicable, set minority and women-owned business enterprise ("MWBE") participation goals. Please note that this project MWBE utilization goal is 30%. You will be required to use good faith efforts to achieve the prescribed MWBE goals assigned to this project and must maintain such records and take such actions necessary to demonstrate such compliance.

BID ADVERTISEMENT NOTES

It is the policy of the City of Rome to encourage the greatest possible participation of minority and women-owned business enterprises. All qualified Minority and Women-Owned Business Enterprises (MWBE) suppliers, contractors, and/or businesses will be afforded equal opportunity without discrimination because of race, color, religion, national origin, sex, age, disability or sexual preference.

The City of Rome reserves the right to reject any or all proposals or to accept any proposals deemed to be in its best interest.

Eric Seelig,
Rome City Clerk
Board of Estimate & Contract

Legal Date: 06/16/2026

WEST LIBERTY & JAMES STREET PARKING LOTS
CITY OF ROME, ONEIDA COUNTY, NEW YORK

RFB-2026-014
NON-BIDDERS RESPONSE

If you choose not to bid on this project, please consider returning this form to the following address:

Rome City Clerk
1st Floor, Rome City Hall
198 N Washington St
Rome, New York 13440

NON-BIDDERS RESPONSE

VENDOR NAME: _____

For purposes of striving to improve our bidding process, as well as to facilitate your firm's response to our future invitations to bid, we are interested in ascertaining reasons why you chose not to bid on this particular project. In this regard, please provide a short explanation/reason for your choice not to bid in the space provided below:

WEST LIBERTY & JAMES STREET PARKING LOTS
CITY OF ROME, ONEIDA COUNTY, NEW YORK

BC-1
BIDDER'S CHECKLIST

In order to submit a complete bid, Bidders must submit the following documents:

STANDARD

- BD-1: Completed Bid Form
- BD-2: Bid Bond or Certified Bank Check – 5% of total base bid
- BD-3: Completed Bidders Information Sheet
- BD-4: Certified Copy of Resolution of Board of Directors (for Corporations)
- BD-5: Completed Non-Collusive Bidding and Disbarment Certifications
- BD-6: Completed Affidavit of Worker's Compensation

PROJECT SPECIFIC

- BD-7: Form A MWBE EEO Statement

POST-BID

The following forms are due from the apparent responsible low bidder no later than 10 days after bid opening.

- PB-1: Proof of Ability to do Work in New York State, or Covenant to Obtain (NYS Department of State)
- PB-2: Proof of Insurance
- PB-3: Performance Bond
- PB-4: Completed Emergency Contact Numbers
- PB-5: Form C Work Force Employment Utilization Form
- PB-6: Form D MWBE Utilization Plan

BIDDERS SHALL SUBMIT ALL DOCUMENTS PRESENTED IN THIS PROJECT MANUAL ON SINGLE-SIDED SHEETS IN THE EXACT ORDER SHOWN. NO SUBSTITUTIONS OF FORMS WILL BE ALLOWED. ENTRIES MAY BE TYPED OR LEGIBLY HANDWRITTEN EXCEPT AS SPECIFICALLY NOTED.

Rome Parking Lots – West Liberty Street & North James Street Parking Lots

CITY OF ROME, ONEIDA COUNTY, NEW YORK

BD-1

BID SUMMARY FORM – GENERAL CONSTRUCTION

COMPANY:	ADDRESS:
CONTACT:	
SIGNATURE:	PHONE:
DATE:	EMAIL:

The following Bid Figures are for the West Liberty Street Parking Lot

BASE BID - West Liberty Street					
BID ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT AND LUMP SUM PRICE		TOTAL BID ITEM AMOUNT
			WORDS	FIGURES	
1a	Mobilization/Demobilization	Lump Sum			\$
			Dollars and Cents per Lump Sum		
2a	Demolition and Removals of Pavements & Curbs. Includes all unclassified excavat'n./disposal	Lump Sum			\$
			Dollars and Cents per Lump Sum		
3a	Maintenance and Protection of Traffic for the duration of the project, including adjacent building access and sidewalks	Lump Sum			\$
			Dollars and Cents per Lump Sum		
4a	Protective measures for subsurface utilities, Dominic and N. Washington Street Electrical Vault and Storm Basins	Lump Sum			\$
			Dollars and Cents per Lump Sum		
5a	Sediment & Erosion Control	Lump Sum			\$
			Dollars and Cents per Lump Sum		
6a	Salvage of Signs, furnishings, and other materials to be reused.	Lump Sum			\$
			Dollars and Cents per Lump Sum		

7a	Unclassified Excavation & disposal of subgrade materials in trenches and pits	Lump Sum			\$
			Dollars and Cents per Lump Sum		
8a	Electrical & Lighting, including (13) poles, concrete bases, conduit, trenching, service panel, wire & fittings	Lump Sum			\$
			Dollars and Cents per Lump Sum		
9a	Grading and Drainage	Lump Sum			\$
			Dollars and Cents per Lump Sum		
10a	Landscaping	Lump Sum			\$
			Dollars and Cents per Lump Sum		
	West Liberty Street Parking Lot SUBTOTAL BASE BID LUMP SUM ITEMS (Sum of Bid Items 1-10a)				\$

UNIT PRICE SCHEDULE – BASE BID West Liberty Street

Unit Price Item #	ITEM OF WORK *	ESTIMATED QUANTITY	ITEM OF WORK (Enter Unit Bid Price in Numerals)	UNIT COST (Numerals)	TOTAL AMOUNT BID
11a	Sawcut Paving	Per 300 Lin. Ft.	Sawcut Paving	\$	\$
12a	5" Concrete Sidewalk	Per 90 Sq. Yd.	5" Concrete Sidewalk	\$	\$
13a	Sealed Expansion Joint	Per 75 Lin. Ft.	Sealed Expansion Joint	\$	\$
14a	Hot Asphalt Top Course	Per 170 Ton	Hot Asphalt Top Course	\$	\$
15a	Hot Asphalt Binder Course	Per 280 Ton	Hot Asphalt Binder Course	\$	\$
16a	Diluted Tack Coat	Per 100 Gal.	Diluted Tack Coat	\$	\$

17a	Pipe fittings, drainage pipe, trenching & backfill	Per 25 Lin. Ft.	Drainage Pipe	\$	\$
18a	Leaching Basin & Precast Drainage Structures	Per Each (3)	Drainage Structures	\$	\$
19a	Granite Curb - Straight	Per 1,065 Lin. Ft.	Granite Curb - Straight	\$	\$
20a	Granite Curb - Radius	Per 165 Lin. Ft.	Granite Curb - Radius	\$	\$
21a	Steel Bollard w. Chain	Per Each (7)	Steel Bollard w. Chain	\$	\$
22a	16" x 24" Free Standing Brick Pier	Per Each (5)	16" x 24" Free Standing Brick Pier	\$	\$
23a	5' x 16" Free Standing Brick Pier	Per Each (5)	5' x 16" Free Standing Brick Pier	\$	\$
24a	7'-6" x 16" Free Stnd'g. Brick Pier	Per Each (1)	7'-6" x 16" Free Stnd'g. Brick Pier	\$	\$
25a	Brick Veneer	Per Sq. Ft.	Brick Venner 300 Sq. Face Ft.	\$	\$
26a	Amended Planting Soil	Per 80 Cu. Yd.	Amended Planting Soil	\$	\$
27a	Shredded Bark Mulch	Per 45 Cu. Yd.	Shredded Bark Mulch	\$	\$
28a	Bioretention Filter Media	Per 6 Cu. Yd.	Bioretention Filter Media	\$	\$
29a	Paint Striping & Pvmt. Stencils (incl. ADA access aisles)	Per 1,100 Lin. Ft.	Paint Striping & Pvmt. Stencils	\$	\$
30a	Detectable Warning Plates	Per Sq. Ft.	Detectable Warning Plates	\$	\$

The following Bid Figures are for the North James Street Parking Lot

BASE BID – North James Street					
BID ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT AND LUMP SUM PRICE		TOTAL BID ITEM AMOUNT
			WORDS	FIGURES	
1b	Mobilization/Demobilization	Lump Sum			\$
			Dollars and Cents per Lump Sum		
2b	Demolition and Removals of Pavements & Curbs. Includes all unclassified excavat'n/disposal.	Lump Sum			\$
			Dollars and Cents per Lump Sum		
3b	Maintenance and Protection of Traffic for the duration of the project, including sidewalk access.	Lump Sum			\$
			Dollars and Cents per Lump Sum		
4b	Protective measures for subsurface utilities, Huntington and Patrolmans Way Electrical service and Storm Basins	Lump Sum			\$
			Dollars and Cents per Lump Sum		
5b	Sediment & Erosion Control	Lump Sum			\$
			Dollars and Cents per Lump Sum		
6b	Salvage of Signs, furnishings, and other materials to be reused	Lump Sum			\$
			Dollars and Cents per Lump Sum		
7b	Unclassified Excavation & disposal of subgrade materials in trenches and pits	Lump Sum			\$
			Dollars and Cents per Lump Sum		
8b	Electrical & Lighting, including (4) poles, concrete bases, conduit, service panel, wire & fittings	Lump Sum			\$
			Dollars and Cents per Lump Sum		
9b	Grading and Drainage	Lump Sum			\$
			Dollars and Cents per Lump Sum		
10b	Landscaping	Lump Sum			\$
			Dollars and Cents per Lump Sum		
North James Street Parking Lot					
SUBTOTAL BASE BID LUMP SUM ITEMS					\$
(Sum of Bid Items 1-10b)					

UNIT PRICE SCHEDULE – BASE BID North James Street

Unit Price Item #	ITEM OF WORK *	ESTIMATED QUANTITY	ITEM OF WORK (Enter Unit Bid Price in Numerals)	UNIT COST (Numerals)	TOTAL AMOUNT BID
11b	Sawcut Paving	Per 60 Lin. Ft.	Sawcut Paving	\$	\$
12b	5" Concrete Sidewalk	Per 5 Sq. Yd.	5" Concrete Sidewalk	\$	\$
13b	Sealed Expansion Joint	Per 10 Lin. Ft.	Sealed Expansion Joint	\$	\$
14b	Hot Asphalt Top Course	Per 80 Ton	Hot Asphalt Top Course	\$	\$
15b	Hot Asphalt Binder Course	Per 50 Ton	Hot Asphalt Binder Course	\$	\$
16b	Diluted Tack Coat	Per 50 Gal.	Diluted Tack Coat	\$	\$
17b	Pipe fittings, drainage pipe, trenching & backfill	Per 20 Lin. Ft.	Drainage Pipe	\$	\$
18b	Precast Drainage Structures	Per Each (1)	Drainage Structures	\$	\$
19b	Granite Curb - Straight	Per 240 Lin. Ft.	Granite Curb - Straight	\$	\$
20b	Granite Curb - Radius	Per 20 Lin. Ft.	Granite Curb - Radius	\$	\$
21b	Steel Bollard w. Helical Pile and Chain	Per Each (19)	Steel Bollard w. Pile & Chain	\$	\$
22b	16" x 24" Free Standing Brick Pier	Per Each (6)	16" x 24" Free Standing Brick Pier	\$	\$
23b	Brick Veneer	Per Sq. Ft.	Brick Venner 110 Sq. Face Ft.	\$	\$

24b	Paint Striping & Pvmt. Stencils	Per 400 Lin. Ft.	Paint Striping & Pvmt. Stencils	\$	\$
25b	Amended Planting Soil	Per 35 Cu. Yd.	Amended Planting Soil	\$	\$
26b	Shredded Bark Mulch	Per 18 Cu. Yd.	Shredded Bark Mulch	\$	\$
27b	Detectable Warning Plates	Per Sq. Ft.	Detectable Warning Plates	\$	\$
	Allowance for Contingencies, Authorized by Field Order by the City's Representative.	As Approved	<u>Forty-Two Thousand and no/100s</u> Total Dollars and Cents	<u>\$ 42,000.00</u>	<u>\$ 42,000.00</u>
	West Liberty and North James Street Parking Lots				
	TOTAL BASE BID (Sum of All Bid Lump Sum + Total Unit Costs a + b)			\$ _____	\$ _____
			Total Dollars and Cents		

END OF FORM BD-1

BID BOND

Any singular reference to Bidder, Surety, Owner or other party shall be considered plural where applicable.

BIDDER (*Name and Address*):

SURETY (*Name and Address of Principal Place of Business*):

OWNER (*Name and Address*):

BID

Bid Due Date: As Noted in the Invitation to Bidders
Description: WEST LIBERTY & JAMES STREET PARKING LOTS

BOND

Bond Number: _____
Date (*Not earlier than Bid due date*): _____
Penal sum _____ \$ _____
(Words) (Figures)

Surety and Bidder, intending to be legally bound hereby, subject to the terms set forth below, do each cause this Bid Bond to be duly executed by an authorized officer, agent, or representative.

BIDDER

SURETY

Bidder's Name and Corporate Seal (Seal) Surety's Name and Corporate Seal (Seal)

By: _____
Signature

By: _____
Signature (Attach Power of Attorney)

Print Name

Print Name

Title

Title

Attest: _____
Signature

Attest: _____
Signature

Title

Title

Note: Above addresses are to be used for giving any required notice. Provide execution by any additional parties, such as joint venturers, if necessary.

1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to pay to Owner upon default of Bidder the penal sum set forth on the face of this Bond. Payment of the penal sum is the extent of Bidder's and Surety's liability. Recovery of such penal sum under the terms of this Bond shall be Owner's sole and exclusive remedy upon default of Bidder.
2. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents.
3. This obligation shall be null and void if:
 - 3.1 Owner accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents, or
 - 3.2 All Bids are rejected by Owner, or
 - 3.3 Owner fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by Paragraph 5 hereof).
4. Payment under this Bond will be due and payable upon default of Bidder and within 30 calendar days after receipt by Bidder and Surety of written notice of default from Owner, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.
5. Surety waives notice of any and all defenses based on or arising out of any time extension to issue Notice of Award agreed to in writing by Owner and Bidder, provided that the total time for issuing Notice of Award including extensions shall not in the aggregate exceed 120 days from Bid due date without Surety's written consent.
6. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in Paragraph 4 above is received by Bidder and Surety and in no case later than one year after Bid due date.
7. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.
8. Notices required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.
9. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.
10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.
11. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.

WEST LIBERTY & JAMES STREET PARKING LOTS
CITY OF ROME, ONEIDA COUNTY, NEW YORK

BD – 4
BIDDER INFORMATION SHEET

NAME OF BIDDER*: _____

ADDRESS: _____

PHONE NUMBER: _____

EMAIL: _____

TYPE OF ENTITY: CORPORATION ___ PARTNERSHIP ___ INDIVIDUAL ___

IF A NON-PUBLICLY OWNED CORPORATION

NAME OF CORPORATION: _____

LIST OF PRINCIPAL STOCKHOLDERS (HOLDING OVER 5% OF OUTSTANDING SHARES):

LIST OF OFFICERS: _____

LIST OF DIRECTORS: _____

DATE OF ORGANIZATION: _____

IF A PARTNERSHIP: _____

PARTNERS: _____

NAME OF PARTNERSHIP: _____

DATE OF ORGANIZATION: _____

*IF THE BUSINESS IS CONDUCTED UNDER AN ASSUMED NAME, A COPY OF THE CERTIFICATE REQUIRED TO BE FILED UNDER THE NEW YORK STATE GENERAL BUSINESS LAW MUST BE ATTACHED.

WEST LIBERTY & JAMES STREET PARKING LOTS
CITY OF ROME, ONEIDA COUNTY, NEW YORK

BD-5
CERTIFIED COPY OF
RESOLUTION OF BOARD OF DIRECTORS

(NAME OF CORPORATION)

“Resolved that _____, _____
(Person Authorized to Sign) (Title)
of _____ authorized to sign and submit Bid for this corporation
(Name of Corporation) for the following project: _____

and to include in such bid the certificate as to non-collusion, and for any inaccuracies or misstatements in such certificate this corporate Bidder shall be liable under the penalties of perjury.

The foregoing is true and correct copy of resolution adopted by:

(NAME OF CORPORATION)

At meeting of its Board of Directors held on the _____ day of _____, 20____

By: _____

Title: _____

(SEAL)

This form **must be** completed if the Bidder is a Corporation.

WEST LIBERTY & JAMES STREET PARKING LOTS
CITY OF ROME, ONEIDA COUNTY, NEW YORK

BD-6

NON-COLLUSIVE BIDDING AND DISBARMENT CERTIFICATIONS

I. SECTION 103-D, GEN. MUNICIPAL LAW & SECTION 139-D OF STATE FINANCE LAW CERTIFICATION:

1. Every Bidder hereafter made to the state or any public department, agency, or official thereof, where competitive bidding is required by statute, rule, or regulation, for work or services performed or to be performed or goods sold or to be sold, shall contain the following statement subscribed by the bidder and affirmed by such bidder as true under the penalties of perjury.

Non-Collusive bidding certification

a. By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of his knowledge and belief:

(1) The prices in the bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or to any competitor;

(2) Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly, to any other bidder or to any competitor; and

(3) No attempt has been made or will be made by the bidder to induce any other person, partnership, or corporation to submit a bid for the purpose of restricting competition.

b. A bid shall not be considered for award nor shall any award be made where 1, a, b, and c above have not been complied with; provided however, that if in any case the bidder cannot make the foregoing certification, the bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefore.

The fact that a bidder (1) has published price lists, rates or tariffs covering items being procured, (2) has informed prospective customers of proposed or pending publication of new or revised price lists for such items, or (3) has sold the same items to other customers at the same prices being bid does not constitute, without more, a disclosure within the meaning of subparagraph One (a) above.

2. Any bid hereafter made to the state or any public department agency, or official thereof by a corporate bidder for work or services performed or to be performed or goods sold or to be sold,

WEST LIBERTY & JAMES STREET PARKING LOTS
CITY OF ROME, ONEIDA COUNTY, NEW YORK

where competitive bidding is required by statute, rule, or regulation, and where such bid contains the certification referred to in subdivision one of this section, shall be deemed to have been authorized by the board of directors of the bidder and such authorization shall be deemed to have included the signing and submission of the bid and the inclusion therein of the certificate as to non-collusion as the act and deed of the corporation.

II. TITLE 23, U.S.C., SECTION 112(C) CERTIFICATION:

By submission of this bid, the bidder does hereby tender to the Owner this sworn statement pursuant to Section 112 (c) of Title 23 U.S.C. (Highways) and does hereby certify, in conformance with said section 112 (c) of Title 23 U.S.C. (Highways) that he said Contractor has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the above contract.

III. TITLE 49 U.S.C., PART 29 DISBARMENT/INELIGIBILITY DISCLOSURE:

The signator to the proposal, being duly sworn, certifies that, EXCEPT AS NOTED BELOW, his/her company and any person associated therewith in the capacity of owner, partner, director, officer, or major stockholder (of five percent or more ownership):

- a. Is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any Federal agency;
- b. Has not been suspended, debarred, voluntarily excluded, or determined ineligible by any Federal agency within the past three years;
- c. Does not have a proposed debarment pending; and
- d. Has not been indicted, convicted, or had a civil judgment rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past three years.

Exceptions: The Contractor should list any relevant information, attaching additional sheets to the proposal if necessary. (Exceptions will not necessarily result in disapproval, but will be considered in determining responsibility. For any exception noted, the Contractor should indicate to whom it applies, the initiating agency, and the dates of actions. Providing false information may result in criminal prosecution or administrative sanctions.)

WEST LIBERTY & JAMES STREET PARKING LOTS
CITY OF ROME, ONEIDA COUNTY, NEW YORK

NON-COLLUSIVE BIDDING CERTIFICATION BIDDER INFORMATION

Bidder to provide information listed below:

Bidder Address:

Street or P.O. Box Number

City

State *Zip*

Federal Identification No:

Name of Contact Person:

Phone No. of Contact Person:

If Bidder is a Corporation:

Presidents Name and Address

Vice Presidents Name and Address

Other Officer's Name and Address

If Bidder is a Partnership:

Partners Name and Address

Partners Name and Address

If Bidder is a Sole Proprietorship

Owners Name and Address

WEST LIBERTY & JAMES STREET PARKING LOTS
CITY OF ROME, ONEIDA COUNTY, NEW YORK

BY EXECUTING THIS DOCUMENT, THE CONTRACTOR AGREES TO:

1. Perform all work listed in accordance with the Contract Documents at the unit prices bid; subject to the provisions of the Standard Specifications, Construction Materials, published by the New York State Department of Transportation, and dated May 1, 2008, and addenda thereto, if applicable;
2. All the terms and conditions of the non-collusive bidding certifications required by section 139d of State Finance Law, and Section 112(c), Title 23, U.S. Code;
3. Certification of Specialty Items category selected, if contained in this proposal;
4. Certification of any other clauses required by this proposal and contained herein;
5. Certification, under penalty of perjury, as to the current history regarding suspensions, debarments. Voluntary exclusions, determinations of ineligibility, indictments, or civil judgments required by 49 CFT Part 29.

 (Legal name of Person, Corporation, or
 Firm which is Submitting Bid or Proposal)

Date _____

By: _____
 (Signature of Person Representing Above)

As: _____
 (Official Title of Signator in Above Firm)

(Acknowledge By a Corporation)

STATE OF NEW YORK)

) SS:

COUNTY OF)

On this _____ day of _____, 20____ before me personally came _____ to me known and known to me to be the person who executed the above instrument, who being duly sworn by me, did depose and say that he/she resides at _____, and that he/she is the _____ of the Corporation described in and which executed the above instrument, and that he/she signed his/her name thereto on behalf of said Corporation by order of the Board of Directors of said Corporation.

 Notary Public

WEST LIBERTY & JAMES STREET PARKING LOTS
CITY OF ROME, ONEIDA COUNTY, NEW YORK

(Acknowledge By Partnership)

STATE OF NEW YORK)

) SS:

COUNTY OF)

On this _____ day of _____, 20__ before me personally came _____ to me known and known to me to be the person described in and who executed the above instrument, who being duly sworn by me, did depose and say that he/she is a partner of the firm of _____, consisting of himself/herself and _____ and that he/she executed the foregoing instrument in the firm name of _____ and that he/she had authority to sign same, and did duly acknowledge to me that he/she executed same as the act and deed of said firm of _____ for the uses and purposes mentioned herein.

Notary Public

(Acknowledge By Individual Contractor)

STATE OF NEW YORK)

) SS:

COUNTY OF)

On this _____ day of _____, 20__ before me personally came _____ to me known and known to me to be the person who executed the above instrument, and that he/she acknowledge that he/she executed the same.

Notary Public

WEST LIBERTY & JAMES STREET PARKING LOTS
CITY OF ROME, ONEIDA COUNTY, NEW YORK

BD-7
AFFIDAVIT OF WORKERS COMPENSATION

State of _____)

SS:

County of _____)

On the ____ day of _____, in the year _____, before me, the undersigned, a Notary Public in and for said State, personally appeared _____, the _____ of _____ who deposes and says that s/he now carries or that s/he has applied for a New York State Workers Compensation Policy to cover the operations, as set forth in the preceding contract, and to comply with the provisions thereof.

Signed: _____

Subscribed and sworn to before me this _____ day of _____, 20____.

Notary Public

FORM A
MINORITY AND WOMEN-OWNED BUSINESS ENTERPRISES – EQUAL
EMPLOYMENT OPPORTUNITY POLICY STATEMENT

M/WBE AND EEO POLICY STATEMENT

I, _____, the _____
agree to adopt the following policies with respect to the project being developed or services rendered at
the City of Rome:

M/WBE This organization will and will cause its
contractors and subcontractors to take good
faith actions to achieve the M/WBE contract participations goals set
by the State for that area in which the State-funded project is
located, by taking the following steps:

- (1) Actively and affirmatively solicit bids for contracts and subcontracts from qualified State certified MBEs or WBEs, including solicitations to M/WBE contractor associations.
- (2) Request a list of State-certified M/WBEs from AGENCY and solicit bids from them directly.
- (3) Ensure that plans, specifications, request for proposals and other documents used to secure bids will be made available in sufficient time for review by prospective M/WBEs.
- (4) Where feasible, divide the work into smaller portions to enhanced participations by M/WBEs and encourage the formation of joint venture and other partnerships among M/WBE contractors to enhance their participation.
- (5) Document and maintain records of bid solicitation, including those to M/WBEs and the results thereof. Contractor will also maintain records of actions that its subcontractors have taken toward meeting M/WBE contract participation goals.
- (6) Ensure that progress payments to M/WBEs are made on a timely basis so that undue financial hardship is avoided, and that bonding and other credit requirements are waived or appropriate alternatives developed to encourage M/WBE participation.

EEO (a) This organization will not discriminate against any employee or applicant for employment because of race, creed, color, national origin, sex, age, disability or marital status, will undertake or continue existing programs of affirmative action to ensure that minority group members are afforded equal employment opportunities without discrimination, and shall make and document its conscientious and active efforts to employ and utilize minority group members and women in its work force on state contracts.

(b) This organization shall state in all solicitation or advertisements for employees that in the performance of the State contract all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex disability or marital status.

(c) At the request of the contracting agency, this organization shall request each employment agency, labor union, or authorized representative will not discriminate on the basis of race, creed, color, national origin, sex, age, disability or marital status and that such union or representative will affirmatively cooperate in the implementation of this organization's obligations herein.

(d) Contractor shall comply with the provisions of the Human Rights Law, all other State and Federal statutory and constitutional non-discrimination provisions. Contractor and subcontractors shall not discriminate against any employee or applicant for employment because of race, creed (religion), color, sex, national origin, sexual orientation, military status, age, disability, predisposing genetic characteristic, marital status or domestic violence victim status, and shall also follow the requirements of the Human Rights Law with regard to non-discrimination on the basis of prior criminal conviction and prior arrest.

(e) This organization will include the provisions of sections (a) through (d) of this agreement in every subcontract in such a manner that the requirements of the subdivisions will be binding upon each subcontractor as to work in connection with the State contract

Agreed to this _____ day of _____, 20_____

By: _____

Print: _____ Title: _____

_____ is designated as the Minority Business Enterprise Liaison
(Name of Designated Liaison)

responsible for administering the Minority and Women-Owned Business Enterprises- Equal Employment Opportunity (M/WBE-EEO) program.

M/WBE Contract Goals

30.00% Minority and Women's Business Enterprise Participation

15.00% Minority Business Enterprise Participation

15.00% Women's Business Enterprise Participation

EEO Contract Goals

_____ % Minority Labor Force Participation

_____ % Female Labor Force Participation

(Authorized Representative)

Title: _____

Date: _____

MINORITY AND WOMEN-OWNED BUSINESS ENTERPRISES (MWBE) PROGRAM AT THE DEPARTMENT OF STATE (DOS)

Overview

Article 15-A of the NYS Executive law was enacted on **July 19, 1988**, to promote equality of economic opportunities for MWBEs and to eliminate barriers to their participation in state contracting.

DOS aspires to meet our agency-wide MWBE goal of **30%** utilization.

The MWBE requirement applies to Contracts, including Grants, with value over:

- \$25,000 for commodities and services
- \$100,000 for construction

DOS participates in the statewide requirement to provide procurement opportunities for MWBEs. The **Bureau of Fiscal Management** administers the Department's **MWBE Program**.

How does it apply to you?

- Under **5 NYCRR §142.8**, DOS contractors are required to make “**good faith efforts (GFE)**” to provide meaningful participation to MWBEs as subcontractors or suppliers in the performance of their contracts.
- The contract's specific MWBE goals can be identified in the **RFA** and/or the **budget page** in applicable contracts.
- Goals apply to qualified (subbed out/procured) budget lines of all applicable contracts
- Contractors should set up an account in the New York State Contract System (<https://ny.newnycontracts.com>) for submitting utilization plans and reports. ***100% federally funded contracts are not required to use the system.**



Your Responsibilities Under Article 15-A

1

Within ten days of receipt of the award notification from DOS, submit:

- **Form A** - MWBE/EEO Policy Statement
- **Form B** - Staffing Plan (if contract > \$250,000)
- **Form D** - MWBE Utilization Plan **OR**
- **Form D-1** - MWBE Certification Letter

Forms are available at: www.dos.ny.funding/mwbe

2

Throughout the contract term:

- Report payments to MWBE subcontractors as soon as those payments are made, through the system **OR** submit Form F - Quarterly MWBE Utilization
- Submit Form C - Workforce Utilization.
- Communicate with your contract's Program Manager through the system.



How to meet the MWBE goals?

The number of certified MWBE vendors keeps growing!

Find **eligible businesses** through the NYS MWBE Directory located at:

<https://ny.newnycontracts.com/FrontEnd/VendorSearchPublic.asp>

Only the use of **New York State-certified MWBEs** will count towards meeting NYS contract goals.

A **Waiver Request** can be submitted if there are no opportunities for MWBE participation, or to demonstrate the Good Faith Efforts to meet the goals. **Contact your contract program manager for assistance!**

For additional information about the MWBE Program, contact:

The Empire State Development's Division of Minority and Women-owned Business Enterprises at **(212) 803-2414**

Website: <https://ny.newnycontracts.com>

For certification: <https://esd.ny.gov/mwbe-new-certification>



For questions or assistance with achieving and reporting MWBE utilization, Contact the Bureau of Fiscal Management at **518-474-2754** or dos.sm.mwbe@dos.ny.gov

SERVICE DISABLED VETERAN-OWNED BUSINESS ENTERPRISES (SDVOB) PROGRAM AT THE DEPARTMENT OF STATE (DOS)

Overview

Article 17-B of the Executive Law, enacted on May 12, 2014, recognizes veteran's service to and sacrifice for our nation. It is New York State's policy to promote and encourage the continuing economic development of service disabled veteran-owned businesses, and allows eligible business owners to become certified as a New York State Service Disabled Veteran-Owned Business (SDVOB), in order to increase their participation in New York State's contracting opportunities.



New York State has established a statewide SDVOB goal of **6%**, to improve contracting opportunities for SDVOB certified vendors.

DOS participates in the statewide requirement to provide procurement opportunities for SDVOB.

The **Bureau of Fiscal Management** administers the Department's **SDVOB Program**.

Did you know???

Utilizing SDVOB vendors in your contracts will support NYS' efforts to improve the businesses owned by those who served our nation, create more private sector jobs, and maximize economic activity, to the mutual benefit of the communities

How does it apply to you?

DOS grantees and contractors are requested to make every effort, to the maximum extent possible, to:

- ◆ **Engage** certified SDVOBs in the purchasing of commodities, services and technology, in the performance of their DOS contracts, and
- ◆ **Report** any SDVOB vendor utilization achieved.

How to achieve SDVOB Utilization

Find **eligible businesses** at the NY State SDVOB Directory located at: <https://online.ogs.ny.gov/SDVOB/search>. **Only the use of New York State-certified SDVOBs** will give you credit for SDVOB utilization.

New certified SDVOB vendors are frequently being added to the **Directory!**

SDVOB vendors are available in the following categories:

- **Commodities**
- **Construction**
- **Construction Professional Services**
- **Financial Services**
- **Consulting & Other Services** (Business, Management, Administrative, IT, Media, Transportation, Equipment, Miscellaneous)

SDVOB utilization can be as **subcontractors, suppliers, or other contracting roles.**



Need Help?

The Office of General Services' **Division of Service-Disabled Veterans' Business Development** administers the NYS SDVOB Program :

Phone: 518-474-2015

Email: VeteransDevelopment@ogs.ny.gov

For Certification: <https://ogs.ny.gov/Veterans/>

For questions or assistance with achieving and reporting SDVOB utilization, Contact the Bureau of Fiscal Management
518-474-2754 or dos.sm.sdovob@dos.ny.gov



Department of State

MWBE GOOD FAITH EFFORT DOCUMENTATION

The following documentation of Good Faith Effort made by the Grantee to secure MWBE utilization for goods and/or services procured under this contract should be retained during the life of the contract and submitted to DOS upon request:

1. A DETAILED statement with the project description (any special characteristics, needs, specifications, etc.), and an explanation setting forth your basis and justification for requesting a partial or total waiver of the MWBE goals.
2. The names of general circulation, trade association, and MWBE-oriented publications in which you solicited certified MWBEs for the purposes of complying with your participation goals related to this Contract.
3. A list identifying the date(s) that all solicitations for certified MWBE participation were published in any of the above publications.
4. A list of all certified MWBEs appearing in the NYS Directory of Certified Firms that were solicited for purposes of complying with your certified MWBE participation levels.
5. **Documentation of your search in the NYS Directory of Certified Firms (e.g.: printouts, screenshots).**
6. Copies of notices, dates of contact, letters, and other correspondence as proof that solicitations were made in writing and copies of such solicitations, or a sample copy of the solicitation, if an identical solicitation was made to all certified MWBEs. Any information and/or documentation to support the efforts to follow up with the MWBEs.
7. Copies of responses to your solicitations received by you from certified MWBEs
8. A description of any contract documents, plans, or specifications made available to certified MWBEs for purposes of soliciting their proposals and the date and manner in which these documents were made available.
9. Documentation of any negotiations between you and the MWBEs undertaken for purposes of complying with the certified MWBE participation goals.
10. Copy of notice of application receipt issued by Empire State Development (ESD), if subcontractors are not certified MWBE, but an application has been filed with ESD.

WEST LIBERTY & JAMES STREET PARKING LOTS
CITY OF ROME, ONEIDA COUNTY, NEW YORK

PB – 4
EMERGENCY CONTACTS

CONTACT PERSON	CAN BE REACHED AT*
1. _____	_____ (cell) _____ (land line)
2. _____	_____ (cell) _____ (land line)
3. _____	_____ (cell) _____ (land line)

WEEKEND / AFTER HOURS / HOLIDAY EMERGENCY CONTACTS

CONTACT PERSON	CAN BE REACHED AT*
1. _____	_____ (cell) _____ (land line)
2. _____	_____ (cell) _____ (land line)
3. _____	_____ (cell) _____ (land line)

* Please indicate cell and land line (if applicable)

The Engineer will use ONLY numbers listed above to contact Contractor's Representative. The contact person shall have full authority and capability to mobilize forces promptly as required to respond to an emergency and protect the public.

**FORM C
WORK FORCE EMPLOYMENT UTILIZATION**

Contract No.:	Reporting Entity: <input type="checkbox"/> Contractor <input type="checkbox"/> Subcontractor	Reporting Period: <input type="checkbox"/> January 1, 20__ - March 31, 20__ <input type="checkbox"/> April 1, 20__ - June 30, 20__ <input type="checkbox"/> July 1, 20__ - September 30, 20__ <input type="checkbox"/> October 1, 20__ - December 31, 20__
Contractor's Name:		Report includes: <input type="checkbox"/> Work force to be utilized on this contract <input type="checkbox"/> Contractor/Subcontractor's total work force
Contractor's Address:		

Enter the total number of employees in each classification in each of the EEO-Job Categories identified.

EEO-Job Category	Total Work force	Work force by Gender		Work force by Race/Ethnic Identification														
		Male (M)	Female (F)	White (M) (F)		Black (M) (F)		Hispanic (M) (F)		Asian (M) (F)		Native American (M) (F)		Disabled (M) (F)		Veteran (M) (F)		
Officials/Administrators																		
Professionals																		
Technicians																		
Sales Workers																		
Office/Clerical																		
Craft Workers																		
Laborers																		
Service Workers																		
Temporary /Apprentices																		
Totals																		

PREPARED BY (Signature):	TELEPHONE NO.:	DATE:
NAME AND TITLE OF PREPARER (Print or Type):	EMAIL ADDRESS:	
	Submit completed form to: NYS Department of State Division of Local Government Services 99 Washington Ave, Ste. 1015 Albany, NY 12231	

General Instructions: The work force utilization (FORM C) is to be submitted on a quarterly basis during the life of the contract to report the actual work force utilized in the performance of the contract broken down by the specified categories. When the work force utilized in the performance of the contract can be separated out from the contractor's and/or subcontractor's total work force, the contractor and/or subcontractor shall submit a Utilization Report of the work force utilized on the contract. When the work force to be utilized on the contract cannot be separated out from the contractor's and/or subcontractor's total work force, information on the total work force shall be included in the Utilization Report. Utilization reports are to be completed for the quarters ended 3/31, 6/30, 9/30 and 12/31 and submitted to the MWBE Program Management Unit within 15 days of the end of each quarter. If there are no changes to the work force utilized on the contract during the reporting period, the contractor can submit a copy of the previously submitted report indicating no change with the date and reporting period updated.

Instructions for completing:

1. Enter the number of the contract that this report applies to along with the name and address of the Contractor preparing the report.
2. Check off the appropriate box to indicate if the entity completing the report is the contractor or a subcontractor.
3. Check off the box that corresponds to the reporting period for this report.
4. Check off the appropriate box to indicate if the work force being reported is just for the contract or the Contractor's total work force.
5. Enter the total work force by EEO job category.
6. Break down the total work force by gender and enter under the heading 'Work force by Gender'
7. Break down the total work force by race/ethnic background and enter under the heading 'Work force by Race/Ethnic Identification'. Contact the Office of Affirmative Action Programs at (518) 473-2507 if you have any questions.
8. Enter information on any disabled or veteran employees included in the work force under the appropriate heading.
9. Enter the name, title, phone number and email address for the person completing the form. Sign and date the form in the designated boxes.

RACE/ETHNIC IDENTIFICATION

Race/ethnic designations as used by the Equal Employment Opportunity Commission do not denote scientific definitions of anthropological origins. For the purposes of this report, an employee may be included in the group to which he or she appears to belong, identifies with, or is regarded in the community as belonging. However, no person should be counted in more than one race/ethnic group. The race/ethnic categories for this survey are:

- **WHITE** (Not of Hispanic origin) All persons having origins in any of the original peoples of Europe, North Africa, or the Middle East.
- **BLACK** a person, not of Hispanic origin, who has origins in any of the black racial groups of the original peoples of Africa.
- **HISPANIC** a person of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin, regardless of race.
- **ASIAN & PACIFIC ISLANDER** a person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent or the Pacific Islands.
- **NATIVE INDIAN (NATIVE AMERICAN/ALASKAN AFFILIATION OR COMMUNITY RECOGNITION. NATIVE)** a person having origins in any of the original peoples of North America, and who maintains cultural identification through tribal affiliation or community recognition.

OTHER CATEGORIES

- **DISABLED INDIVIDUAL** any person who:
 - has a physical or mental impairment that substantially limits one or more major life activity(ies)
 - has a record of such an impairment; or
 - is regarded as having such an impairment.
- **VIETNAM ERA VETERAN** a veteran who served at any time between and including January 1, 1963 and May 7, 1975.
- **GENDER** **Male or Female**

FORM D – M/WBE UTILIZATION PLAN

INSTRUCTIONS: This form must be submitted with any bid, proposal, or proposed negotiated contract or within a reasonable time thereafter, but prior to contract award. This Utilization Plan must contain a detailed description of the supplies and/or services to be provided by each certified Minority and Women-owned Business Enterprise (M/WBE) under the contract. Attach additional sheets if necessary.

Offeror's Name: City of Rome
Address: 198 N. Washington Street
City, State, Zip Code: Rome, NY 13440
Telephone No.: 315-339-7676
Region/Location of Work: MV

Federal Identification No.: 15-6000414
Project/Contract No.: C1002323

M/WBE Goals in the Contract: MBE 15.00% WBE 15.00%

1. Certified M/WBE Subcontractors/Suppliers Name, Address, Email Address, Telephone No.	2. Classification	3. Federal ID No.	4. Detailed Description of Work (Attach additional sheets, if necessary)	5. Dollar Value of Subcontracts/ Supplies/Services and intended performance dates of each component of the contract.
A.	<p align="center">NYS ESD CERTIFIED</p> <input type="checkbox"/> MBE <input type="checkbox"/> WBE			
B.	<p align="center">NYS ESD CERTIFIED</p> <input type="checkbox"/> MBE <input type="checkbox"/> WBE			
C.	<p align="center">NYS ESD CERTIFIED</p> <input type="checkbox"/> MBE <input type="checkbox"/> WBE			
D.	<p align="center">NYS ESD CERTIFIED</p> <input type="checkbox"/> MBE <input type="checkbox"/> WBE			
E.	<p align="center">NYS ESD CERTIFIED</p> <input type="checkbox"/> MBE <input type="checkbox"/> WBE			

F.	NYS ESD CERTIFIED <input type="checkbox"/> MBE <input type="checkbox"/> WBE			
----	--	--	--	--

6. IF UNABLE TO FULLY MEET THE MBE AND WBE GOALS SET FORTH IN THE CONTRACT, OFFEROR MUST SUBMIT A REQUEST FOR WAIVER FORM E.

PREPARED BY (Signature): DATE: NAME AND TITLE OF PREPARER (Print or Type): SUBMISSION OF THIS FORM CONSTITUTES THE OFFEROR'S ACKNOWLEDGEMENT AND AGREEMENT TO COMPLY WITH THE M/WBE REQUIREMENTS SET FORTH UNDER NYS EXECUTIVE LAW, ARTICLE 15-A, 5 NYCRR PART 143, AND THE ABOVE-REFERENCED SOLICITATION. FAILURE TO SUBMIT COMPLETE AND ACCURATE INFORMATION MAY RESULT IN A FINDING OF NONCOMPLIANCE AND POSSIBLE TERMINATION OF YOUR CONTRACT.	TELEPHONE NO.:	EMAIL ADDRESS:
	FOR M/WBE USE ONLY	
	REVIEWED BY:	DATE:
	UTILIZATION PLAN APPROVED: <input type="checkbox"/> YES <input type="checkbox"/> NO Date: _____ Contract No.: Project No. (if applicable): Contract Award Date: Estimated Date of Completion: Amount Obligated Under the Contract: Description of Work: NOTICE OF DEFICIENCY ISSUED: <input type="checkbox"/> YES <input type="checkbox"/> NO Date: _____ NOTICE OF ACCEPTANCE ISSUED: <input type="checkbox"/> YES <input type="checkbox"/> NO Date: _____	

PROPOSAL

PROPOSAL

To the Board of Estimates and Contract,
City of Rome, NY

Pursuant to and in compliance with your advertisement for bids dated **May 28, 2026** and the information for bidders relating hereto, the undersigned hereby offers to furnish all labor, material, implements, tool, etc., necessary, or proper for, or incidental to:

RFB-2026-014 as required by and in strict accordance with the Plans and Specifications, for the unit prices set opposite the several items which are attached.

In submitting this bid, the undersigned declares that he is, or they are, the only person, or persons, interested in the said bid; that it is made without any connection with any person making another bid for the same contract; that the bid is in all respects fair and without collusion, fraud or mental reservation; and that no official of the City, or any person in the employment of the City is directly or indirectly interested in said bid or in the supplies or work to which it relates, or in any portion of the profits therein.

The undersigned also hereby declares that he, or they, have carefully examined the plans, specifications, forms of contract, that he has, or they have, personally inspected the actual location of the work together with the local sources of supply and that he has, or they have, satisfied himself, or themselves, as to all the quantities and conditions and understands that in signing this proposal he or they waive all right to plead any misunderstanding regarding the same.

The undersigned further understands and agrees that he is, or they are, to furnish and provide for the respective item price bid, all necessary material, except that furnished by the City of Rome, machinery, implements, tools, labor, services, etc., and to do and perform all the work necessary under the aforesaid conditions to complete the construction of the aforementioned work in accordance with the plans and specifications for said construction, which plans and specifications it is agreed are a part of this proposal and to accept in full compensation thereof the amount of the summation of the products of the actual quantities multiplied by the unit prices bid.

The undersigned further agrees to accept the aforesaid "unit bid" prices in compensation for any additions or deductions caused by variation in quantities due to more accurate measurements, or by any changes or alterations in the plans or specifications of the work.

DRAFT AGREEMENT

DRAFT AGREEMENT

CONTRACT FOR: _____

in Rome, New York, dated _____ by and between the City of Rome New York, a municipal corporation organized and existing under the laws of the State of New York, having a principal place of business at City Hall, 198 North Washington Street, City of Rome, County of Oneida, State of New York (hereinafter referred to as “**Owner**” or “**City**”), and _____, doing business at _____

_____ (hereinafter referred to as the “**Contractor**”).

WITNESS, that the **Owner** and the **Contractor** in consideration of the promises and of the mutual covenants, considerations and agreements herein contained, agree to be legally bound as follows:

ARTICLE 1. CONTRACT AND CONTRACT DOCUMENTS.

1.1 Except for titles, subtitles, headings, running headlines, tables of content and indices (all of which are printed herein merely for convenience), the following, except for such portions thereof as may be specifically excluded, shall be deemed to be a part of this Contract:

- 1.1.1 All provisions required by law to be inserted in this Contract, whether inserted or not;
- 1.1.2 The Contract Drawings and Specifications;
- 1.1.3 The General Conditions and Special Conditions, if any;
- 1.1.4 The Contract;
- 1.1.5 The Information for Bidders; Request for Proposals; Notice of Solicitation and Proposal for Bids; Bid or Proposal, and if used, the Bid Booklet; and
- 1.1.6 All Addenda issued prior to the receipt of the Bids; the Notice of Award; Performance and Payment Bonds, if required; and the Notice to Proceed with the Work.

1.2 In case of any conflict or inconsistency between the provisions of this Contract and those of the Specifications, the provisions of this Contract shall govern, unless the Contractor shall have asked

for and obtained a decision in writing from the Commissioner, of the Agency that is entering into this Contract, before the submission of its bid as to what shall govern.

ARTICLE 2. DEFINITIONS

2.1.1 “**Addendum**” or “**Addenda**” shall mean the Additional Contract provisions issued in writing by the Commissioner prior to the receipt of bids.

2.1.2 “**Agency**” shall mean a city, county or other office, position, department, division, bureau, board or commission, or a corporation, institution or agency of government the expenses of which are paid in whole or in part from the City treasury.

2.1.3 “**City**” shall mean the City of Rome, New York. For purposes of this Contract, the word “**City**” includes the “**City Engineer**” and “**Commissioner**”, and “**City**” and “**Owner**” are synonymous and may be used interchangeably.

2.1.4 “**City Engineer**” shall mean an Engineer for the City of Rome, duly designated by the Commissioner to be his/her representative at the site of the Work.

2.1.5 “**Commissioner**” shall mean the City of Rome Commissioner of Public Works, or his/her duly authorized representative.

2.1.6 “**Contract**” or “**Contract Documents**” shall mean each of the various parts of the contract referred to in Article 1 hereof, both as a whole and severally.

2.1.7 “**Contract Work**” shall mean everything required to be furnished and done by the Contractor by any one or more of the parts of the Contract referred to in Article 1, except “**Extra Work**” as hereinafter defined.

2.1.8 “**Contractor**” shall mean the entity which executed the Contract, whether a corporation, firm, partnership, joint venture, individual, or any combination thereof, and it(s), their, his/her successors, personal representatives, executors, administrators, sub-contractors and assigns, and any person, firm, partnership, joint venture, individual, or corporation which shall at any time be substituted in the place of the Contractor under this Contract.

2.1.9 “**Days**” shall mean calendar days, except where otherwise specified.

2.1.10 “**Engineer**” or “**Architect**” or “**Project Manager**” shall mean the person so designated in writing by the Commissioner to act as such in relation to this Contract, including a private Architect or Engineer or Project Manager, as the case may be. For projects on which the **City** outsources engineering, architecture or management services, any reference to “**City Engineer**” shall be deemed to mean “**Engineer**” or “**Architect**” or “**Project Manager**”, whichever is applicable.

2.1.10(a) “**Employee**” shall mean those persons employed and supervised by **Contractor**, or any **Subcontractor(s)**, to perform the **Work** contemplated under this Contract. For purposes of this Contract, the City of Rome has no obligation to protect any “**Employee**” from any injury or harm as the result of working under this Contract, as said obligation rests solely with **Contractor** and/or **Subcontractor(s)**.

2.1.11 “**Extra Work**” shall mean Work other than that required by the Contract at the time of award, which is authorized by the Commissioner pursuant to Article 16 of this Contract.

2.1.12 “**Final Acceptance**” shall mean final written acceptance of all the Work by the Commissioner, a copy of which shall be sent to the Contractor.

2.1.13 “**Final Approved Punch List**” shall mean a list, approved in writing by the Engineer, specifying those items of Work to be completed by the Contractor after Substantial Completion and dates for the completion of each item of Work.

2.1.14 “**Law**” or “**Laws**” shall mean the Constitution of the State of New York, the City of Rome Charter, a statute of the United States or of the State of New York, a local law of the City of Rome, New York, any ordinance, rule or regulations having the force of law, or common law.

2.1.15 “**Materialman**” shall mean any corporation, firm, partnership, joint venture, or individual, other than employees of the Contractor, who or which contracts with the Contractor or any Subcontractor, to fabricate or deliver, or who actually fabricates or delivers, plant, material or equipment to be incorporated in the Work.

2.1.16 “**Means and Methods of Construction**” shall mean the labor, materials, temporary structures, tools, plant and construction equipment, and the manner and time of their use, necessary to accomplish the result intended by this Contract.

2.1.17 “**Notice**” shall mean and include written notice. Written notice shall be deemed to have been duly served when delivered to or at the last known business address of the person, firm, or corporation for whom intended, or to his, their or its duly authorized agent, representative or office; or when enclosed in a postage prepaid wrapper or envelope addressed to such person, firm or corporation at his, their or its last known business address and deposited in a United States mail box.

2.1.18 “**Owner**” shall mean the City of Rome, New York. For purposes of this **Contract**, the word “**Owner**” includes the “**City Engineer**” and “**Commissioner**”, and the words “**Owner**” and “**City**” are synonymous and may be used interchangeably.

2.1.19 “**Project**” shall mean the public improvement to which this Contract relates.

2.1.20 “**Required Quantity**” in a unit price Contract shall mean the actual quantity of any item of Work or materials which is required to be performed or furnished in order to comply with the Contract.

2.1.21 “**Site**” shall mean the area upon or in which the Contractor’s operations and work under this Contract are carried on, and such other public areas immediately adjacent thereto as may be designated as such by the Engineer. The word “**Site**” shall not include private property utilized by Contractor for any purpose.

2.1.22 “**Specifications**” shall mean all of the directions, requirements and standards of performance applying to the Work as hereinafter detailed and designated under the Specifications.

2.1.23 “**Subcontractor**” shall mean any person, firm or corporation, other than Employees of the Contractor, who or which contracts with the Contractor or with its Subcontractors to furnish, or actually furnishes labor, or labor and materials, or labor and equipment, at the site. Wherever the word Subcontractor appears, it shall also mean Sub-Subcontractor.

2.1.24 “**Substantial Completion**” shall mean the written determination by the Commissioner that the Work required under this Contract is substantially, but not entirely complete.

2.1.25 “**Treasurer**” shall mean the Treasurer or Chief Financial Officer of the City of Rome, New York.

2.1.26 “**Work**” shall mean all services required to complete the Project in accordance with the Contract Documents, including without limitation, labor, material, superintendence, management, administration, equipment, and incidentals, and shall include both Contract Work and Extra Work.

ARTICLE 2A. NOTICE OF AWARD AND NOTICE TO PROCEED

2A.1 Upon the acceptance of the contractors bid by the **City**, the **City** will issue a “Notice of Award”, which shall detail the **Contract** requirements, insurance documents and any other pertinent information. All requirements of the Notice of Award must be submitted to the **City** within ten (10) working days of the Notice. In the event that the **Contractor** fails to submit the correct requirements as determined solely by the **City Engineer**, the **Contractor** will be deemed in non compliance and will forfeit its bid security to the **City**.

2A.2 The Notice to Proceed will detail the **Contract** time and other details pertinent to the **Contract**, i.e. submittals, listing of subcontractors, contact numbers, etc.

ARTICLE 3. THE WORK AND ITS PERFORMANCE

3.1 The plans for this **Contract** were prepared by Delta Engineers, Architects, & Surveyors, and include [#] sheets titled “**West Liberty & James Street Parking Lots Project**”

3.2 Unless otherwise expressly provided in the **Contract Drawings, Specifications** and **Addenda**, the **Work** shall be performed in accordance with the best modern practice, utilizing, unless otherwise specified in writing, new and unused materials of standard first grade quality and workmanship and design of the highest quality, to the satisfaction of the **Commissioner**.

3.3 The **Contractor** will furnish all labor, materials, supplies, equipment and other facilities and things necessary or proper for or incidental to the work contemplated by this contract as required by and in strict accordance with the applicable plans and specifications prepared by the **City Engineer** or **Engineer** or **Architect**.

3.4 By executing this **Contract**, the **Contractor** is precluded and debarred from pleading misunderstanding or deception because of estimates of quantities, character, location or other conditions surrounding the **Project Work** covered by the **Contract**.

ARTICLE 3A. COMPENSATION TO BE PAID CONTRACTOR

3A.1 The **City** will pay and the **Contractor** will accept in full consideration for the performance of the **Contract**, subject to additions and deductions as provided herein, the total sum of _____ Dollars, (\$ _____), this said sum being the Amount at which the **Contract** was awarded to the **Contractor** at a public letting thereof, based upon the **Contractor's** bid for the **Contract**.

ARTICLE 4. MEANS AND METHODS OF CONSTRUCTION

4.1 Unless otherwise expressly provided in the **Contract Drawings, Specifications** and/or **Addenda**, the **Means and Methods of Construction** shall be such as the **Contractor** may choose; subject, however, to the **City Engineer's** right to reject the **Means and Methods of Construction** proposed by the **Contractor** which in the opinion of the **City Engineer**:

4.1.1 Will constitute or create a hazard to the **Work**, to persons of the general public or public property. **Contractor** and **Subcontractor(s)** are responsible for supervising the safety of their own employees, both on and off the **Work Site**, and maintaining the integrity, condition and safety of any property; or

4.1.2 Will not produce finished **Work** in accordance with the terms of the **Contract**; or

4.1.3 Will be detrimental to the overall progress of the **Project**.

4.2 The **City Engineer's** approval of the **Contractor's Means and Methods of Construction**, or his/her failure to exercise his/her right to reject such means or methods, shall not relieve the

Contractor of its obligation to complete the **Work** as provided in this **Contract**; nor shall the exercise of such right to reject create a cause of action for damages.

4.3 Nothing herein shall be interpreted to mean that the **Owner, Commissioner or City Engineer** shall have an obligation or duty to supervise the **Contractor's Means and Methods of Construction** in order to protect the safety of **Contractor's or Subcontractors' Employees**, as said obligation or duty rests solely with the **Contractor or Subcontractor**.

ARTICLE 4A. SURVEYS, GRADE AND PERMITS.

The **Owner** will provide all lines and grades necessary for the satisfactory completion of the work called for by this **Contract**. It will be the responsibility of the **Contractor** to adhere to lines and grades provided. If it is determined by the **City Engineer** that adjustments and changes to lines and grades will be necessary, then the **Contractor shall** take direction from the **City Engineer** and make changes accordingly. There is no additional payment made when the **City Engineer** determines it is necessary to make field changes for satisfactory completion of this **Contract**. The **City Engineer** may give the **Contractor** a Miscellaneous Order(s) to correct drainage problems, for which the **City Engineer** will supply grades and elevations. It will be the **Contractor's** responsibility to conform to the grades and elevations contained in said Miscellaneous Order. If **Contractor** does not conform to the ordered grade elevations, the **Contractor** will correct work at his own cost, as directed by the **City Engineer**.

The **Contractor** shall have the right to cut the pavement in any street or alley through which the work herein described is laid out, without any further permits. All other permits and licenses necessary for the prosecution of the work shall be secured and paid for by the **Contractor**. Upon completion of the **Work** covered by this **Contract**, said license to enter the City's streets or alleys to make cuts shall be revoked.

ARTICLE 5. INSPECTION

5.1 During the progress of the **Work** and up to the date of **Final Acceptance**, the **Contractor** shall at all times afford the representatives of the **City** every reasonable, safe and proper facility for inspecting all **Work** done or being done at the **Site**, and also for inspecting the manufacture or preparation of materials and equipment at the place of such manufacture or preparation.

5.2 The **Contractor's** obligation hereunder shall include the uncovering or taking down of finished **Work** and its restoration thereafter; provided, however, that the order to uncover, take down and restore shall be in writing, and further provided that if **Work** thus exposed proves satisfactory, and if the **Contractor** has complied with Article 5.1, such uncovering or taking down and restoration shall be considered an item of **Extra Work** to be paid for in accordance with the provisions of Article 16. If the **Work** thus exposed proves unsatisfactory, the **City** has no obligation to compensate the **Contractor** for the uncovering, taking down or restoration.

5.3 Inspection and approval by the **Commissioner** or **City Engineer**, of finished **Work** or of **Work** being performed, or of materials and equipment at the place of manufacture or preparation, shall not relieve the **Contractor** of its obligation to perform the **Work** in strict accordance with the **Contract** or of its obligation to protect its **Employees** from injury or harm for work performed under this **Contract**. Finished or unfinished **Work** not found to be in strict accordance with the **Contract** shall be replaced as directed by the **City Engineer**, even though such **Work** may have been previously approved and paid for. Such corrective work is **Contract Work** and shall not be deemed **Extra Work**.

5.4 Rejected **Work** and materials shall be promptly taken down and removed from the **Site**, which must at all times be kept in a reasonably clean and neat condition.

5.5 Nothing herein shall be interpreted to mean that the inspection authority provided to the **City** by this Article 5 creates any obligation or duty on the **City** to protect the safety of **Contractor's** or **Subcontractors Employees** or to protect the safety, integrity or condition of any property, as said obligations and duties rest solely with the **Contractor** or **Subcontractor**.

ARTICLE 6. PROTECTION OF WORK AND OF PERSONS AND PROPERTY

6.1 During the performance of the **Work** and up to the date of **Final Acceptance**, the **Contractor** shall be under an absolute obligation to protect **Employees**, both on and off the **Work Site**, the finished and unfinished **Work**, equipment, materials, tools, machinery, vehicles and the site against any injury, damage, loss, theft and/or vandalism, and in the event of such injury, damage, loss, theft and/or vandalism, it shall promptly secure, remove, replace or repair such **Work**, **Employee**, equipment, materials, tools, machinery, vehicles and the site, whichever the **Commissioner** or **City Engineer** shall determine to be preferable. The obligation to deliver finished **Work** in strict accordance with the **Contract** prior to **Final Acceptance** shall be absolute and shall not be affected by the **Commissioner's** or **City Engineer's** approval of, or failure to prohibit, the **Means and Methods of Construction** used by the **Contractor**.

6.2 The **City** may require the **Contractor** to secure, remove, replace or repair any **Employee**, finished and unfinished **Work**, equipment, materials, tools, machinery, vehicles, which, in the opinion of the **City**, **Commissioner** or **City Engineer**, is/are a danger to persons of the public or public property.

6.3 During the performance of the **Work** and up to the date of **Final Acceptance**, the **Contractor** shall take all reasonable precautions to protect the persons and property of the **City** and of others from damage, loss or injury resulting from the **Contractor's**, and/or its **Subcontractors** operations or storage under this **Contract**. The **Contractor's** obligation to protect shall include the duty to provide, place or replace and adequately maintain at or about the **Site** suitable and sufficient protection such as lights, signage, barricades and enclosures.

6.4 The **Contractor** shall notify the **Commissioner**, **Treasurer**, the commercial general liability insurance carrier, and, where applicable, the worker's compensation and/or other insurance carrier in writing, of any loss, damage or injury to **Work**, persons or property arising

out of the operations or storage of the **Contractor** and/or its **Subcontractors** under this **Contract**, or any accidents on the **Site**, within thirty (30) days of the occurrence. The **Contractor's** notice to the insurance carrier must expressly specify that "this notice is being given on behalf of the City of Rome, New York as additional insured as well as [the **Contractor**] as named insured." Within three (3) **Days** after the notice to the **Contractor** of the happening of any such loss, damage or injury to **Work**, persons or property, or any accidents, the **Contractor** shall make a full and complete report thereof in writing to the **City Engineer**.

6.4.1 Notice to the **Treasurer** pursuant to 6.3 shall specify the name of the **Contract**, the date of the incident, the location (street address) of the incident, the identity of the persons or things injured, damaged or lost, and the name of the insurance carrier that issued the commercial liability insurance policy pursuant to Article 12 of this **Contract**. Such notice shall be sent to the Corporation Counsel's Office, Suite 3A, City Hall, 198 North Washington Street, Rome, New York 13440.

6.5 If any person or property sustains any loss, damage, cost, expense or injury arising out of the operations of the **Contractor** and/or its **Subcontractors** in the performance of this **Contract**, the **Contractor** shall indemnify, defend and hold the **City**, its employees and agents harmless against any and all claims, liens, demands, judgments, penalties, fines, liabilities, settlements, damages, costs and expenses of whatever kind or nature (including, without limitation, attorney's fees and disbursements), known or unknown, contingent or otherwise, arising from or in any way related to such operations, or failure to comply with any of the provisions of this **Contract** or of the **Law**. Insofar as the facts and **Law** relating to any claim would preclude the **City** from being completely indemnified by the **Contractor**, the **City** shall be partially indemnified by the **Contractor** to the fullest extent provided by **Law**.

6.6 The **Contractor** shall, at its own expense, defend, indemnify and hold the **City** harmless from any and all claims (even if the allegations of the suit are without merit) or judgments for damages (including, but not limited to, delay damages from **Other Contractors**) and from costs and expenses to which **City** may be subjected or which it may suffer or incur allegedly arising out of or in connection with any operations of the **Contractor** and/or its **Subcontractors**, or their failure to comply with the provisions of this **Contract** or of the **Laws**. Insofar as the facts and **Law** relating to any claim would preclude the **City** from being completely indemnified by the **Contractor**, the **City** shall be partially indemnified by the **Contractor** to the fullest extent provided by **Law**.

6.7 To the extent required by law, by public authority or by local conditions, the **Contractor** will adequately protect adjacent property and will provide and maintain all passage ways, railroad crossings, guard fences, lights and other facilities for protection.

6.8 In the event of the existence of an unsafe condition at the work site, which in the opinion of the **City**, endangers the health, safety or welfare of the public or the well-being, condition or integrity of any property, the **City** will contact the **Contractor** at its Emergency contact number. If **Contractor** does not abate the unsafe condition to **City's** satisfaction within the time period set by **City**, **City** may use its own resources to abate the unsafe condition. Any costs to **City**,

including all material and labor costs, will be charged to **Contractor** and may be withheld from payments due to **Contractor**.

6.8.1 In the event the **City** abates the unsafe condition pursuant to Section 6.8, the **Contractor** shall indemnify and hold the **City** harmless as provided for at Sections 6.5 and 6.6 of this **Contract** for any injury, loss, damage, cost or expense to any person or property arising out of the work performed by **City** to abate the unsafe condition.

6.8.2 Nothing in Section 6.8 of this **Contract** shall be construed to establish a duty or obligation on the **City** to protect the safety, health or well-being of **Contractor**, **Subcontractor(s)** and/or **Employees** or to protect the well-being, condition or integrity of property affected by this Agreement, as said duties and obligations rest solely with the **Contractor** and/or **Subcontractor**.

6.9 The provisions of this Article shall not be deemed to create any new right of action in favor of third parties against the **Contractor** or the **City**.

6.10 Contractor will immediately notify Owner of any and all claims that Contractor allegedly caused injury to the persons or damage to the property of any third party. Contractor will also immediately notify the Rome Police Department or Oneida County Sheriff's Department, (dependent on location), of any and all claims that Contractor allegedly caused injury to the persons or damage to the property of any third party.

6.11 Nothing herein shall be interpreted to mean that the **City** has an obligation or duty to protect the safety of **Contractor's/Subcontractors' Employees** or to protect the safety, condition or integrity of any private property, as said obligation and duty rest solely with the **Contractor** or **Subcontractors**.

6.12 The **Contractor** shall be solely responsible for the storage and maintenance of equipment, materials, tools, etc., wherever said equipment, materials or tools are stored.

ARTICLE 7. COMMENCEMENT AND PROSECUTION OF THE WORK

7.1 The **Contractor** shall commence **Work** on the date specified in a written notice signed by the **Commissioner**. The time for performance of the **Work** under the **Contract** shall be computed from the date specified in such written notice. **TIME BEING OF THE ESSENCE** to the **City**, the **Contractor** shall thereafter prosecute the **Work** diligently, using such **Means and Methods of Construction** as are in accord with Article 3 herein and as will assure its completion not later than the date specified herein, or on the date to which the time for completion may be extended.

7.2 Time for completion of the **Work** as specified shall be: **October 31, 2026**. Extensive Liquidated Damages Procedure set forth in first three pages of Information to Bidders (Section 200).

ARTICLE 8. PROGRESS SCHEDULES

8.1 To enable the **Work** to be performed in an orderly and expeditious manner, the **Contractor**, within fifteen (15) **Days** after the **Notice to Proceed** with this **Contract**, unless otherwise directed by the **City Engineer**, shall submit to the **City Engineer** a proposed progress schedule in the form of a bar graph or in such other form as specified by the **City Engineer**, and monthly cash flow requirements, showing:

8.1.1 The anticipated time of commencement and completion of each of the various operations to be performed under this **Contract**; and

8.1.2 The sequence and interrelation of each of these operations with the others and with those of other related **Contracts**; and

8.1.3 The estimated time required for fabrication or delivery, or both, of all materials and equipment required for the **Work**; and

8.1.4 The estimated amount in dollars the **Contractor** will claim on a monthly basis.

8.2 The proposed schedule shall be revised as directed by the **City Engineer**, until finally approved by the **City Engineer**, and after such approval, shall be strictly adhered to by the **Contractor**.

8.3 If the **Contractor** shall fail to adhere to the approved progress schedule, it shall promptly adopt such other or additional **Means and Methods of Construction** as will make up for the time lost and will assure completion in accordance with the approved progress schedule. The approval by the **City** of a progress schedule which is shorter than the time allotted under the **Contract** shall not create any liability for the **City** if the approved progress schedule is not met.

8.4 The **Contractor** will not receive any payments until the proposed progress schedule is submitted.

ARTICLE 9. COMPLETION AND FINAL ACCEPTANCE OF THE WORK

9.1 Date for **Substantial Completion**: The **Contractor** shall substantially complete the **Work** within the time fixed at article 7.2 or as set forth in the General Conditions, or within the time to which such **Substantial Completion** may be extended as permitted by the **Commissioner**.

9.2 Determining the Date of **Substantial Completion**: The **Work** shall be deemed to be substantially complete when the two conditions set forth in 9.2.1 and 9.2.2 have been met. The **Commissioner** will then issue a Certificate of **Substantial Completion**.

9.2.1 Inspection: The **City Engineer** has inspected the **Work** and has made a written determination that it is substantially complete.

9.2.2 Approval of the Final Punch List and Date for **Final Acceptance**: Following inspection of the **Work**, the **City Engineer** shall furnish the **Contractor** a final punch list, specifying all items of **Work** to be completed. The **Contractor** shall then submit to the **City Engineer** dates for the completion of each specified item of **Work**. Within a reasonable time after receipt, the **City Engineer**, in a written notification to the **Contractor**, shall approve the **Contractor's** completion dates or, if they are unable to agree, shall establish dates for the completion of each item of **Work**. The latest completion date specified shall be the date for **Final Acceptance** of the **Work**.

9.3 Determining the Date of **Final Acceptance**: The **Work** will be accepted as final and complete as of the date of **City Engineer's** inspection if, upon such inspection, the **City Engineer** finds that all items on the **Final Approved Punch List** are complete and no further **Work** remains to be done. The **Commissioner** will then issue a written determination of **Final Acceptance**.

9.4 Request for Inspection: Inspection of the **Work** by the **City Engineer** for the purpose of **Substantial Completion** or **Final Acceptance** shall be made within ten (10) **Days** after receipt of the **Contractor's** written request therefor.

9.5 Request for Re-inspection: If upon inspection for the purpose of **Substantial Completion** or **Final Acceptance**, the **City Engineer** determines that there are items of **Work** still to be performed, the **Contractor** shall promptly perform them and then request a re-inspection. If upon re-inspection, the **City Engineer** determines that the **Work** is substantially complete or finally accepted, the date of such re-inspection shall be the date of **Substantial Completion** or **Final Acceptance**. Re-inspection by the **City Engineer** shall be made within ten (10) **Days** after receipt of the **Contractor's** written request therefor.

9.6 Initiation of Inspection by the **City Engineer**: If the **Contractor** does not request inspection or re-inspection of the **Work** for the purpose of **Substantial Completion** or **Final Acceptance**, the **City Engineer** may initiate such inspection or re-inspection.

ARTICLE 10. LIQUIDATED DAMAGES

10.1 In the event the **Contractor** fails to complete the **Work** within the time fixed for such completion in article 7.2 or as set forth in the General Conditions, plus authorized time extensions, or if the **Contractor**, in the sole determination of the **Commissioner**, has abandoned the **Work**, the **Contractor** shall pay to the **City** the sum fixed in the General Conditions, for each and every **Day** that the time consumed in completing the **Work** exceeds the time allowed therefor; which said sum, in view of the difficulty of accurately ascertaining the loss which the **City** will suffer by reason of delay in the completion of the **Work** hereunder, is hereby fixed and agreed as the liquidated damages that the **City** will suffer by reason of such delay, and not as a penalty. This article shall apply to the **Contractor** if it is defaulted pursuant to article 32 of this **Contract**. Neither the failure to assess liquidated damages nor the granting of any time

extension shall operate as a waiver or release of any claim the **City** may have against the **Contractor** for either actual or liquidated damages.

10.2 Liquidated damages received hereunder are not intended to be nor shall they be treated as either a partial or full waiver or discharge of the **City's** right to indemnification, or the **Contractor's** obligation to indemnify the **City**, or to any other remedy provided for in this **Contract** or by **Law**.

10.3 The **Commissioner** may deduct and retain out of the monies which may become due hereunder, the amount of any such liquidated damages; and in case the amount which may become due hereunder shall be less than the amount of liquidated damages suffered by the **City**, the **Contractor** shall be liable to pay the difference.

ARTICLE 11. ASSIGNMENTS

11.1 The **Contractor** shall not assign, transfer, convey or otherwise dispose of this **Contract**, or the right to execute it, or the right, title or interest in or to it or any part thereof, or assign, by power of attorney or otherwise, any of the monies due or to become due under this **Contract**, unless the previous written consent of the **Commissioner** shall first be obtained thereto, and the giving of any such consent to a particular assignment shall not dispense with the necessity of such consent to any further or other assignments.

11.2 Such assignment, transfer or conveyance shall not be valid until filed in the office of the **Commissioner** and the **Treasurer**, with the written consent of the **Commissioner** endorsed thereon or attached thereto.

11.3 Failure to obtain the previous written consent of the **Commissioner** to such an assignment, transfer or conveyance, may result in the revocation and annulment of this **Contract**. The **City** shall thereupon be relieved and discharged from any further liability to the **Contractor**, its assignees, transferees or sublessees, who shall forfeit and lose all monies therefor earned under the **Contract**, except so much as may be required to pay the **Contractor's** employees.

11.4 The provisions of this clause shall not hinder, prevent or affect an assignment by the **Contractor** for the benefit of its creditors made pursuant to the **Laws** of the State of New York.

11.5 This **Contract** may be assigned by the **City** to any corporation, agency or instrumentality having authority to accept such assignment.

ARTICLE 12. INSURANCE

12.1 General Requirements for Insurance Policies. The Contractor shall not commence work under this contract until he has obtained all insurance required under this paragraph, and such insurance has been approved by the Owner; nor shall the Contractor allow any Sub-Contractor to commence work on his Sub-Contractor until all similar insurance required of the Sub-Contractor

has been so obtained and approved. Where applicable, all Insurance required shall be maintained throughout the term of this **Contract**, and said Insurance coverage shall be “occurrence” based rather than “claim-made”. All required insurance policies shall be maintained with companies licensed and authorized to do business in the State of New York by the New York State Department of Insurance. The **Contractor** shall be solely responsible for the payment of all premiums for all required policies and all deductibles to which such policies are subject, whether or not the **City** is an insured under the policy.

12.2. Types of Insurance.

12.2.1 Compensation Insurance - The Contractor shall take out and maintain during the life of this contract adequate Workmen’s Compensation Insurance for all of such Contractor’s employees who will be engaged in work at the site of the project and if any part of this contract is sublet, the Contractor will require his Sub-Contractor to maintain such insurance for all of the Sub-Contractor’s employees who will be so engaged unless the latter’s employees are protected by the Contractor’s Compensation Insurance.

12.2.2 Commercial General Liability Insurance - The Contractor shall provide a Commercial General Liability Insurance Policy in an amount not less than **\$2,000,000.00**, in the **Contractor’s** name and naming the **City** as an Additional Insured thereunder and endorsed to cover the liability assumed by the **Contractor** under the indemnity provisions of this **Contract**. The insurance policy shall be maintained throughout the term of this **Contract** and shall protect the **City**, the **Contractor** and/or its **Subcontractors** performing **Work** at the **Site** from claims for property damage and/or bodily injury, including accidental death, which may arise from operations under this **Contract**.

12.1.3 Public Liability Insurance in an amount not less than **\$2,000,000** for injuries, including wrongful death, to any one persons, and subject to the same limit for each person, in an amount not less than **\$2,000,000** on account of one accident;

12.1.4 Employer’s Liability Insurance: The **Contractor** shall provide Employer’s Liability Insurance affording compensation due to bodily injury by accident or disease sustained by any employee of the insured arising out of and in the course of his/her employment by the insured; and

12.1.5 Automobile Liability Insurance: The **Contractor** shall provide commercial auto liability insurance covering all owned, non-owned and hired vehicles to be used in connection with this **Contract**.

12.3 Miscellaneous Provisions.

12.3.1 Notice under the Policy to the City as an Additional Insured shall be addressed to each of the following: (1) the **Commissioner**; and (2) the **Corporation Counsel’s Office**, at Rome City Hall, 198 North Washington Street, Rome, New York 13440;

12.3.1(a) Notwithstanding any provision of this **Contract** to the contrary, notice by or on behalf of the **City** as an Additional Insured of any occurrence, offense, or claim, if such notice is required, will be deemed timely if given to the Insurance Company as soon as practicable after a Notice of Claim adequately specifying the occurrence, offense, or claim as one potentially covered under the policy has been filed with the **Commissioner**; however, in no event shall “as soon as practicable” be a period of less than one hundred eighty (180) **Days** thereafter; and

12.3.1(b) Notice of Cancellation of Policy. In addition to any other requirements concerning notice of cancellation, this policy shall not be cancelled, terminated, modified or changed by the Insurance Company unless thirty (30) **Days** prior written notice is sent to the Named Insured by Registered Mail and also sent by Registered Mail to both the **Commissioner** and the **Corporation Counsel’s Office**, nor shall this policy be cancelled, terminated, modified or changed by the Named Insured without the prior written consent of the **Commissioner**.

12.3.2 Proof of Insurance:

12.3.2(a) Within ten (10) **Days** of award, the **Contractor** shall, for each policy required under this **Contract**, file a Certificate of Insurance with the **Commissioner** and the **Corporation Counsel**. Such certificate(s) shall certify insurance coverage in all ways in conformance with this article and shall include the following, or similar, text: “The above-named broker/producer represents and warrants to the **City** that it is an Additional Insured under the insurance policies listed herein and that such policies are in full compliance with the **Contract**.”

12.3.2(b) Certificates confirming renewals of insurances shall be submitted to each of the **City** offices specified in 12.3.1, not less than thirty (30) **Days** prior to the expiration date of coverage until all operations under this **Contract** are deemed complete.

12.3.2(c) Failure to submit the required certificate(s) of insurance or renewals, will permit the **City** to postpone the commencement of or cease **Work** on the **Project** until such time the **Contractor** complies with this article. The **City** shall assume no liability for postponing or ceasing **Work** under this article; however, the **Contractor** may be liable to the **City** for any expenses or cost the **City** incurs due to said postponement or delay.

ARTICLE 13. MONEY RETAINED AGAINST CLAIMS

13.1 If any claim shall be made by any person or entity (including other **Contractors** with the **City** on this **Project**) against the **City** or against the **Contractor** and the **City**:

13.1.1 For an alleged loss, damage, injury, theft and/or vandalism of the kind referred to in Article 6, which in the opinion of the **Corporation Counsel**, may not be covered by

the contingent liability, commercial general liability or property damage insurance policy, or which, together with previously filed claims, is in excess of the amount payable under such policies; or

13.1.2 For damage claimed to have been caused directly or indirectly by the failure of the **Contractor** to perform the **Work** in strict accordance with this **Contract**.

13.2 The amount of such claims as referred to in article 13.1.1 and 13.1.2, or so much thereof as the **Commissioner** or the **Corporation Counsel** may deem necessary, may be withheld by the **Treasurer**, as security against such claim, from any money due hereunder. The **Commissioner**, in his/her discretion, may permit the **Contractor** to substitute other satisfactory security in lieu of the monies so withheld.

13.3 If an action on such claim is timely commenced and the liability of the **City**, or the **Contractor**, or both, shall have been established therein by a final judgment of a Court of competent jurisdiction, or if such claim shall have been admitted by the **Contractor** to be valid, the **Treasurer** shall pay such judgment or admitted claim out of the monies retained by the **Treasurer** under the provisions of this article, and return the balance, if any without interest, to the **Contractor**.

13.4 Liens: If at any time before or within thirty (30) **Days** after the **Work** is completed and accepted by the **City**, any persons claiming to have performed any labor or furnished any material toward the performance or completion of this **Contract**, shall file with the **Commissioner** and **Treasurer** any notice as is described in the New York State Lien Law, or any act of the Legislature of the State of New York, the **City** shall retain from the monies due or to become due under this **Contract**, so much of monies as shall be sufficient to pay the amount claimed in said notice, together with the reasonable costs of any action or actions brought or that may be brought to enforce such lien. The monies so retained shall be held by the **City** until such time the **Contractor** submits to the **Commissioner** a Release of Liens and notice, showing all liens thereon are discharged pursuant to **Law**. No interest shall be paid by **City** to **Contractor** for monies held pursuant to a lien or liens properly filed.

ARTICLE 14. MAINTENANCE AND GUARANTEE

14.1 The **Contractor** shall promptly repair, replace, restore or rebuild, as the **Commissioner** may determine, any finished **Work** in which defects of materials or workmanship may appear or to which damage may occur because of such defects, during the one (1) year period subsequent to the date of **Final Payment**, except where other periods of maintenance and guarantee are provided for.

14.2 As security for the faithful performance of its obligations hereunder, the **Contractor** must deliver to the **Owner** an executed bond in the amount of one hundred percent (100%) of the accepted bid as security for the faithful performance of his contract, and for the payment of all persons performing labor and furnishing materials in connection therewith, and having as surety thereon such surety company, or companies, as are acceptable to and approved by the **Owner**.

14.3 Notice by the **Commissioner** to the **Contractor** to repair, replace, rebuild or restore such defective or damaged **Work** shall be timely, pursuant to this article, if given not later than the expiration of the one (1) year period or other periods provided for herein.

14.4 If the **Contractor** shall fail to repair, replace, rebuild or restore such defective or damaged **Work** promptly after receiving such notice, the **Commissioner** shall have the right to have the **Work** done by others, for which **Contractor** may be liable for additional costs or expenses the **Owner** incurs for performing said work.

14.5 If a security payment so deposited is insufficient to cover the cost of such **Work**, the **Contractor** shall be liable to pay such deficiency on demand by the **Commissioner**.

14.6 The **City Engineer's** certificate setting forth the fair and reasonable cost of repairing, replacing, rebuilding or restoring any damaged or defective **Work** when performed by one other than the **Contractor**, shall be binding and conclusive upon the **Contractor** as to the amount thereof.

ARTICLE 15. CHANGES

15.1 Changes may be made to this **Contract** only as duly authorized in writing by the **Commissioner** in accordance with the **Law**. All such changes, modifications and amendments will become a part of the **Contract**. **Work** so ordered shall be performed by the **Contractor**.

15.2 **Contract** changes will be made only for **Work** necessary to complete the **Work** included in the original scope and/or for non-material changes to the scope of the **Contract**. Changes are not permitted for any material alteration in the scope of **Work**.

15.3. The **Contractor** shall be entitled to a price adjustment for **Extra Work** performed pursuant to a written change order. Adjustments to price shall be computed in one or more of the ways:

15.3.1 By applicable unit prices specified in the **Contract**; and/or

15.3.2 By agreement of a fixed price; and/or

15.3.3 By time and material record; and/or

15.3.4 In any other manner approved by the **Commissioner** or **Treasurer**.

15.4 Any construction **Contract** increase and any change to the **Contract** for construction-related professional services that cumulatively exceed the greater of ten percent (10%) of the **Contract** price or one hundred thousand dollars (\$100,000.00) shall be approved by the Board of Estimate & Contract and/or the Common Council of the City of Rome.

16. EXTRA WORK AND METHODS OF PAYMENT FOR EXTRA WORK

16.1 The **Owner** may at any time, by a written order, and without notice to the sureties, required the performance of such **Extra Work** or changes in the work as it may find necessary or desirable. The amount of compensation to be paid to the **Contractor** for any **Extra Work**, as so ordered, shall be determined as follows:

16.1(a) By such applicable unit prices, if any, as are set forth in the contract; and/or

16.1(b) If no unit prices are so set forth, then by a lump sum mutually agreed upon by the **Owner** and the **Contractor**; and/or

16.1(c) If no such unit prices are set forth and if the parties can not agree upon a lump sum, then by the actual net cost in money to the **Contractor** or the materials and of the wages of applied labor (including premiums for Workmen's Compensation Insurance) required for such extra work, plus such rental for plant and equipment (other than small tools) required and approved for such **Extra Work**, plus fifteen percent (15%) as compensation for all other items of profit, and costs or expenses including administration, overhead, superintendence, Insurance (other than Workmen's Compensation Insurance), materials used in temporary structures, allowance made by the **Contractor** to **Subcontractors**, additional premiums upon the performance bond of the **Contractor**, and the use of small tools. The provisions hereof shall not affect the power of the **Contractor** to act in case of emergency, as hereinafter provided.

16.2 Where a change is ordered, involving both **Extra Work** and omitted or reduced **Contract Work**, the **Contract** price shall be adjusted in an amount based on the difference between the cost of such **Extra Work** and of the omitted or reduced **Work**. The cost of such **Extra Work** and of such omitted or reduced **Work** shall be computed based upon applicable **Contract** unit prices. Where there are no applicable **Contract** unit prices, the cost of such **Extra Work** and of such omitted or reduced **Contract Work** shall be computed in accordance with the items Article 16.1(c). If the cost of such **Extra Work** exceeds the costs of such omitted or reduced **Contract Work**, the **Contract** price shall be increased by the difference, plus percentages for overhead and profit as provided in 16.1(c). If the cost of omitted or reduced **Contract Work** exceeds the cost of the **Extra Work**, then the **Contract** price shall be reduced by the difference.

ARTICLE 17. OMITTED WORK

17.1 If any **Contract Work** in a lump sum **Contract**, or if any part of a lump sum item in a unit price, lump sum, or percentage-bid **Contract** is omitted by the **Commissioner** pursuant article 20, the **Contract** price shall be reduced by a pro rata portion of the lump sum bid amount based upon the percent of **Work** omitted. For the purpose of determining the pro rata portion of the lump sum bid amount, the bid breakdown submitted shall be considered, but shall not be the determining factor.

17.2 If the whole of a lump sum item or units of any other item is so omitted by the **Commissioner** in a unit price, lump sum, or percentage-bid **Contract**, then no payment will be made therefor except as provided in article 17.4.

17.3 For units that have been ordered but are only partially completed, the unit price shall be reduced by a pro rata portion of the unit price bid based upon the percentage of **Work** omitted subject to article 17.4.

17.4 In the event the **Contractor**, with respect to any omitted **Work**, has purchased any non-cancelable material and/or equipment that is not capable of use except in the performance of this **Contract** and has been specifically fabricated for the sole purpose of this **Contract**, **Contractor** shall be paid for such material and/or equipment; provided, however, such payment is contingent upon the **Contractor's** delivery of such material and/or equipment in acceptable condition to a location designated by the **City**.

17.5 The **Contractor** agrees to make no claim for damages or for loss of overhead and profit with regard to any omitted work.

ARTICLE 18. THE CITY ENGINEER

18.1 The **City Engineer** shall have the power to inspect, supervise and control the performance of the **Work**, subject to review by the **Commissioner**. In relation to this **Contract** and the Project, the **City Engineer** shall, with the consent and designation by the **Commissioner**, have the power to perform any act, power, determination or approval of the **Commissioner**; however, the **City Engineer** has no duty or obligation to protect the safety of **Employees of Contractor** or any **Subcontractors**, either on or off the **Work Site**, or to protect the safety, integrity or condition of private property;

18.2 The **City Engineer** shall determine the amount, quality, acceptability and fitness of all parts of the work, shall interpret the plans, specifications, contract documents and any extra work orders, and shall decide all other questions in connection with the work;

18.3 To determine how the **Work** of this **Contract** shall be coordinated with **Work** of other **Contractors** engaged simultaneously on this **Project**; including the power to suspend all or any part of the **Work**;

18.5 Upon request, the **City Engineer** shall confirm in writing any oral order, direction, requirement or determination; and

18.6 The **City Engineer** may at any time demand that the **Contractor** submit samples of material for testing to demonstrate that they conform to the specifications. Samples shall be furnished at the expense of **Contractor**.

ARTICLE 19. CONTRACTOR

19.1 In the performance of the work, the **Contractor** shall abide by all orders, directions and requirements of the **City Engineer** and shall perform all work to the satisfaction of the **City Engineer**, and at such time and places, by such methods and in such manner and sequence as he may require.

19.2 The **Contractor** shall employ no plant, equipment, materials, methods or men to which the **City Engineer** objects, and shall remove no plant, materials, equipment or other facilities from the **Work Site** without the **City Engineer's** permission.

19.3 The **Contractor** will employ at the **Work Site**, during the performance of **Work** under this **Contract**, a competent foreman, or superintendent, who shall be satisfactory to the **City Engineer**, and who shall not be changed except with the consent of the **City Engineer** unless he shall cease to be in the employ of the **Contractor**. Such foreman, or superintendent, shall represent and have full authority to act for the **Contractor** in his absence and all directions given such foreman, or superintendent, shall be as binding as if given to the **Contractor**.

19.4 **Contractor** may not perform any work without the presence of a competent foreman or superintendent.

19.5 **Contractor** will be subject to liquidated damages, in the amount set forth in the Information to Bidders, for each calendar day that it fails to employ a competent foreman or superintendent at the site of the work. Said amount shall be deducted from any money due the **Contractor** not as a penalty but as liquidated damages.

19.6 The **Contractor** represents and warrants:

19.6.1 That he is financially solvent and that he is experienced in and competent to perform the type of work or to furnish the plant, materials, supplies or equipment to be so performed or furnished by him; and

19.6.2 That such temporary and permanent work required by the contract documents as is to be done by him can be satisfactorily constructed and used for the purposes for which it is intended, and that such construction will not injure any person or damage any property; and

19.6.3 That he has carefully examined the plans, the specifications, and the site of the work, and that, from his own investigations, he has satisfied himself as to the nature and location of the work, the character, quality and quantity of surface and subsurface materials likely to be encountered, the character of equipment and other facilities needed for the performance of the work, the general and local conditions, and all other materials which may in any way affect the work or its performance.

19.7 Contractor shall attend a mandatory weekly / bi-weekly meeting with Engineer

19.8 **Contractor** is solely responsible for the safety and protection of its **Employees**, either on or off the **Work Site**, and the protection of the condition, safety and integrity of any property affected by this **Contract**.

19.9 If at any time before the final acceptance of the work, any material is discovered which does not comply with the **Contract Documents**, such material shall be removed by **Contractor** within seven (7) days of written notice from **Owner**, solely at Contractor's expense, and shall be replaced at Contractor's expense.

19.10 The **Contractor** shall be solely responsible for the storage and maintenance of equipment, materials, tools, etc., wherever said equipment, materials or tools are stored.

ARTICLE 20. COMMISSIONER

20.1 The **Commissioner**, in addition to those matters elsewhere herein expressly made subject to his/her determination, direction or approval, shall have the power:

20.1.1 To review and make final determinations on any and all questions in relation to this **Contract** and its performance;

20.1.2 To modify or change this **Contract** so as to require the performance of **Extra Work** or the omission of **Contract Work**;

20.1.3 To suspend the whole or any part of the **Work** whenever in his/her judgment such suspension is required:

20.1.3(a) In the interest of the **City** generally; or

20.1.3(b) To coordinate the **Work** of the various **Contractors** engaged on this **Project**; or

20.1.3(c) To expedite the completion of the entire **Project** even though the completion of this particular **Contract** may thereby be delayed.

20.1.4 The **Commissioner** shall have the express authority to designate the **City Engineer** to perform any or all matters elsewhere herein expressly made subject to the **Commissioner's** determination, direction or approval, as well as those matters identified at Articles 20.1.3(a), 20.1.3(b) and 20.1.3(c).

20.1.5 Nothing herein shall create a duty or obligation on the **Commissioner** to protect the health, safety or well being of **Employees of Contractor** or **Subcontractor**, or to protect the integrity, safety or condition of private property, as said obligation or duty rests solely with the **Contractor** and/or **Subcontractor**.

ARTICLE 21. THE ENGINEER OR ARCHITECT OR PROJECT MANAGER

21.1 The **Engineer** or **Architect** or **Project Manager**, in addition to those matters elsewhere herein delegated to the **Engineer** and expressly made subject to his/her determination, direction or approval, shall have the power, subject to review by the **Commissioner** or the **City Engineer**:

21.1.1 To determine the amount, quality and location of the **Work** to be paid hereunder;

21.1.2 To determine all questions in relation to the **Work**, to interpret the **Contract Drawings, Specifications** and **Addenda**, and to resolve all patent inconsistencies or ambiguities therein;

21.1.3 To determine how the **Work** of this **Contract** shall be coordinated with **Work** of other **Contractors** engaged simultaneously on this **Project**; including the power to suspend any part of the **Work**, but not the whole thereof;

21.1.4 To make minor changes in the **Work** as he/she deems necessary, provided such changes do not result in a net change in cost to the **City** or to the **Contractor** of the **Work** to be done under the **Contract**; and

21.1.5 To amplify the **Contract Drawings**, add explanatory information and furnish additional **Specifications** and drawings, consistent with this **Contract**.

21.2 The **Engineer** shall, on **Projects** for which the **City Engineer** does not perform engineering or construction management duties, have the power to perform those activities, determinations, approvals, etc., specifically designated to the **City Engineer**.

ARTICLE 22. EMPLOYEES

22.1 The **Contractor** and its **Subcontractors** shall not employ on the **Work**:

22.1.1 Anyone who is not competent, faithful and skilled in the **Work** for which he/she shall be employed, and whenever the **Commissioner** or **City Engineer** shall inform the **Contractor**, in writing, that any employee is, in his/her opinion, incompetent, unfaithful or disobedient, that employee shall be discharged from the **Work** forthwith, and shall not again be employed upon it;

22.1.2 Any labor, materials or means whose employment, or utilization during the course of this **Contract**, may tend to or in any way cause or result in strikes, work stoppages, delays, suspension of **Work** or similar troubles by workers employed by the **Contractor** or its **Subcontractors**, or by any of the trades working in or about the buildings and premises where **Work** is being performed under this **Contract**, or **Other Contractors** or their **Subcontractors** pursuant to other **Contracts**, or on any other building or premises owned or operated by the **City**, its **Agencies**, departments, boards or authorities. Any violation by the **Contractor** of this requirement may, upon certification of the

Commissioner, be considered as proper and sufficient cause for declaring the **Contractor** to be in default, and for the **City** to take action against it in a manner the **Commissioner** may deem proper.

ARTICLE 23. LABOR LAW

23.1 The **Contractor** shall strictly comply with all applicable provisions of the Labor Law, as amended.

23.2 The **Contractor** specifically agrees, as required by Labor Law Section 220 and 224-d, as amended, that:

23.2.1 No laborer, workman or mechanic in the employ of the **Contractor** or **Subcontractor**, or other person doing or contracting to do the whole or a part of the **Work** contemplated by this **Contract** shall be permitted or required to work more than eight (8) hours in any one (1) calendar day or more than five (5) days in any one (1) week except in cases of extraordinary emergency including fire, flood or danger to life or property, or in case of national emergency when so proclaimed by the President of the United States of America. In the event of such proclamation of a national emergency by the President, application for dispensation from the provisions of this section must be made pursuant to the provisions of the war emergency dispensation act of nineteen hundred forty-two, and such dispensation granted pursuant thereto, before any laborer, workman or mechanic may be employed beyond the hours specified in this section.

23.2.2 Prevailing Rate of Wages: The wages to be paid for a legal day's work, as herein before defined, to laborers, workmen or mechanics employed under this contract, shall not be less than the prevailing rates of wages as ascertained by the Treasurer of the City of Rome, or as found from time to time from the New York State Department of Labor, Albany, New York. The prevailing wage rates and supplemental benefits to be paid are those in effect at the time the **Work** is being performed.

23.3 Working Conditions: No part of the **Work**, labor or services shall be performed or rendered by the **Contractor** in any plants, factories, buildings or surroundings, at the **Site** or under working conditions which are unsanitary or hazardous or dangerous to the health and safety of employees engaged in the performance of this **Contract**. Compliance with the safety, sanitary and factory inspection **Laws** of the state in which the **Work** is to be performed shall be prima facie evidence of compliance with this article. **City** shall have no duty or obligation to protect the safety, health or well-being of **Employees** or to protect the integrity, safety or condition of property, as said duties and obligations rest solely with the **Contractor**.

23.4 The **Contractor** and its **Subcontractors** shall keep such employment and payroll records as are required by Section 220 of the Labor **Law**.

23.5 At the time the **Contractor** makes application for each partial payment, the **Contractor** shall submit to the **Commissioner** or **City Engineer** a written payroll certification of compliance

with the prevailing wage, minimum wage and other provisions and stipulations required by Labor **Law 220**. This certification of compliance with the provisions of this article shall be a condition precedent to payment and no payment shall be made to the **Contractor** unless and until each such certification shall have been submitted to and received by the **Commissioner**.

23.6 This **Contract** is executed by the **Contractor** with the express warranty and representation that the **Contractor** is not disqualified under the provisions of Section 220 of the Labor **Law** for the award of the **Contract**.

23.7 Any breach or violation of any of the foregoing shall be deemed a breach or violation of a material provision of this **Contract**, and the grounds for cancellation thereof by the **City**.

ARTICLE 24. PAYROLL REPORTS

24.1 The **Contractor** shall maintain on the **Site** all the original payrolls or transcripts thereof which the **Contractor** and **Subcontractor(s)** are required to maintain pursuant to Labor Section 220. The **Contractor** and **Subcontractor(s)** shall submit original payrolls or transcripts, subscribed and affirmed by it as true, with each and every payment requisition. The **Contractor** and **Subcontractor(s)** shall produce within five (5) **Days** on the **Site** of the **Work** and upon a written order of the **Commissioner, City Engineer** or **Treasurer**, such original payrolls or transcripts thereof, subscribed and affirmed by it as true, and the statements signed by each worker. In addition, the **Contractor** and **Subcontractor(s)** shall furnish to the **Engineer** upon written demand any other information to satisfy the **Commissioner, City Engineer** or **Treasurer**, that the provisions of this **Contract** and the Labor **Law**, as to the hours of employment and rates of wages, are being observed. The **Contractor** shall maintain the payrolls or transcripts thereof for six (6) years from the date of completion of the **Work** on this **Contract**.

24.2 When directed by the **City Engineer**, the **Contractor** or **Subcontractor** shall provide the **City Engineer** with an attendance sheet for each **Day** on which **Work** is performed on the **Site**. Such attendance sheet shall be in a form acceptable to the **Agency** and shall provide information for employees of the **Contractor** and **Subcontractor(s)**.

ARTICLE 25. CONTRACT PRICE

25.1 **City** will pay and the **Contractor** agrees to accept in full consideration for **Contractor's** performance of the **Work** subject to the terms and conditions hereof, the lump sum price or unit prices upon which this **Contract** was awarded, plus the amount required to be paid for any **Extra Work** ordered by the **Commissioner** or **City Engineer**, less credit for any **Work** omitted under this **Contract**.

ARTICLE 26. BID BREAKDOWN ON LUMP SUM

26.1 Within fifteen (15) **Days** after the commencement date specified in Notice to Proceeds, unless otherwise directed by the **City Engineer**, the **Contractor** shall submit to the **City Engineer** a breakdown of its bid price, or of lump sum bid for items of the **Contract**, showing various operations to be performed under the **Contract**, as directed in the progress schedule required under this **Contract**, and the value of each of such operations, the total of such items to equal the lump sum price bid. Said breakdown must be approved in writing by the **City Engineer**.

26.2 No partial payment will be approved until the **Contractor** submits a bid breakdown that is acceptable to the **City Engineer**.

26.3 The **Contractor** shall also submit such other information relating to the bid breakdown as directed by the **City Engineer**. Thereafter, the breakdown may be used only for checking the **Contractor's** applications for partial payments hereunder, but shall not be binding upon the **City**, the **Commissioner**, the **City Engineer** or the **Engineer** for any purpose whatsoever.

ARTICLE 27. PAYMENT AND PARTIAL PAYMENTS

27.1 From time to time as the **Work** progresses satisfactorily but not more often than once a month, the **Contractor** may submit to the **City Engineer** a requisition for a partial payment in the prescribed form, which shall contain an estimate of the quantity and the fair value of the **Work** done during the payment period. The **City Engineer** will process a payment monthly unless the payment request does not exceed one thousand (\$1000) dollars. If the payment is less than one thousand (\$1000) dollars, the **Owner** reserves the right to carry forward the value of work until the next process for payment. The **Owner** will pay the **Contractor** in accordance with the terms of this contract less any amount previously paid the contractor which have not been suitably discharged and less any retained amount as hereafter described. The owner shall retain five [5] percent of each estimate amount until final completion and acceptance of all work covered by this contract.

27.2 Partial payments may be made for materials, fixtures and equipment in advance of their actual incorporation in the **Work**, as the **Commissioner** may approve, and upon the terms and conditions set forth in the General Conditions.

27.3 The **Contractor** shall also submit to the **Commissioner** or **City Engineer**, in connection with every application for partial payment, a verified statement setting forth the information required under Labor **Law** Section 220-a.

27.4 Within thirty (30) **Days** after receipt of such satisfactory payment application, the **City Engineer** will prepare and certify, and the **Commissioner** will approve, a voucher for a partial payment in the amount of such approved estimate, less any and all deductions authorized to be made by the **Commissioner** under the term of this **Contract** or by **Law**.

ARTICLE 28. PROMPT PAYMENT

28.1 The **Contractor** shall pay each **Subcontractor** or **Materialman** not later than seven (7) **Days** after receipt of payment out of amounts paid to the **Contractor** by the **City** for **Work** performed by the **Subcontractor** or **Materialman** under this **Contract**.

28.2 The **Contractor** shall include in each of its subcontracts a provision requiring each **Subcontractor** to make payment to each of its **Subcontractors** or suppliers for **Work** performed under this **Contract** in the same manner and within the same time period set forth above.

ARTICLE 29. FINAL PAYMENT

29.1 After completion and **Final Acceptance** of the **Work**, the **Contractor** shall submit all required certificates and documents, including Release of Liens, together with a requisition for the balance claimed to be due under the **Contract**, less the amount authorized to be retained for maintenance under Article 14. A verified statement similar to that required in connection with applications for partial payments shall also be submitted to the **Commissioner**.

29.2 Preparation of Final Voucher: Upon determining the balance due hereunder, other than on account of claims, the **City Engineer** will prepare and certify, for the **Commissioner's** approval, a voucher for final payment in that amount less any and all deductions authorized to be made by the **Commissioner** under this **Contract** or by **Law**. In the case of a lump sum **Contract**, the **Commissioner** shall certify the voucher for final payment within thirty (30) **Days** from the date of completion and acceptance of the **Work**, provided all requests for extensions of time have been acted upon.

29.2.1 All prior certificates and vouchers upon which partial payments were made, being merely estimates made to enable the **Contractor** to prosecute the **Work** more advantageously, shall be subject to correction in the final voucher, and the certification of the **City Engineer** thereon and the approval of the **Commissioner** thereof, shall be conditions precedent to the right of the **Contractor** to receive any money hereunder. Such final voucher shall be binding and conclusive upon the **Contractor**.

29.2.2 Payment pursuant to such final voucher, less any deductions authorized to be made by the **Commissioner** under this **Contract** or by **Law**, shall constitute the final payment, and shall be made by the **Treasurer** within thirty (30) **Days** after the filing of such voucher in his/her office.

ARTICLE 30. OWNER'S RIGHT TO WITHHOLD PAYMENTS.

30.1 The **Owner** may withhold from the **Contractor** so much of any approved payments due him as may in the judgment of the **Owner** be necessary:

30.1(a) to assure the payment of just claims then due and unpaid of any persons supplying labor or materials for the work;

30.1(b) to protect the **Owner** from loss due to defective work not remedied; or

30.1(c) to protect the **Owner** from loss due to injury to persons or damage to the work or property of other **Contractors, Sub-Contractors**, or any of his **Sub-Contractors**.

30.2 The **Owner** shall have the right to apply any such amounts so withheld in such manner as the **Owner** may deem proper to satisfy such claims or to secure such protection. Such application of such money shall be deemed payments for the account of the **Contractor**.

ARTICLE 31. ACCEPTANCE OF FINAL PAYMENT

31.1 The acceptance by the **Contractor**, or by anyone claiming by or through it, of the final payment, whether such payment be made pursuant to any judgment of any Court, or otherwise, shall constitute and operate as a release to the **City** from any and all claims of and liability to the **Contractor** for anything heretofore done or furnished for the **Contractor** relating to or arising out of this **Contract** and the **Work** done hereunder, and for any prior act, neglect or default on part of the **City** or any of its officers, agents or employees, excepting only a claim against the **City** for the amounts deducted or retained in accordance with the terms and provisions of this **Contract** or by **Law**, and excepting any claims, not otherwise invalid, or any pending dispute resolution procedures which are contained in the verified statement filed with the **Contractor's** final requisition pursuant to the terms of this **Contract**.

31.2 The **Contractor** is warned that the execution by it of a release, in connection with the acceptance of the final payment, containing language purporting to reserve claims other than those herein specifically excepted from the operation of this article, or those for amounts deducted by the **Commissioner** from the final requisition or by the **Treasurer** from the final payment as certified by the **City Engineer** and approved by the **Commissioner**, shall not be effective to reserve such claims, anything stated to the **Contractor** orally or in writing by any officer, agent or employee of the **City** to the contrary notwithstanding.

31.3 Should the **Contractor** refuse to accept final payment as tendered by the **Treasurer**, it shall constitute a waiver of any right to interest thereon.

ARTICLE 32. COMMISSIONER'S RIGHT TO DECLARE CONTRACTOR IN DEFAULT

32.1 In addition to those instances specifically referred to in other Articles herein, the **Commissioner** shall have the right to declare the **Contractor** in default of this **Contract** if:

32.1.1 The **Contractor** fails to commence **Work** when notified to do so by the **Commissioner** or **City Engineer**; or if

32.1.2 The **Contractor** shall abandon the **Work**; or if

32.1.3 The **Contractor** shall refuse to proceed with the **Work** when and as directed by the **Commissioner** or **City Engineer**; or if

32.1.4 The **Contractor** shall, without just cause, reduce its working force to a number which, if maintained, would be insufficient, in the opinion of the **Commissioner** or **City Engineer**, to complete the **Work** in accordance with the Progress Schedule; or if

32.1.5 The **Contractor** shall fail or refuse to increase sufficiently such working force when ordered to do so by the **Commissioner**; or if

32.1.6 The **Contractor** shall sublet, assign, transfer, convert or otherwise dispose of this **Contract** other than as herein specified; or sell or assign a majority interest in the **Contractor**; or if

32.1.7 The **Contractor** fails to secure and maintain all required insurance; or if

32.1.8 A receiver or receivers are appointed to take charge of **Contractor's** property or affairs, which is not dismissed within twenty (20) days after such appointment, or the proceedings in connection therewith shall not be stayed on appeal within the said twenty (20) days; or if

32.1.9 The **Commissioner** shall be of the opinion that the **Contractor** is or has been unnecessarily or unreasonably or willfully delaying the performance and completion of the **Work**, or the award of necessary subcontracts, or the placing of necessary material and equipment orders; or if

32.1.10 The **Commissioner** shall be of the opinion that the **Contractor** is or has been willfully or in bad faith violating any of the provisions of this **Contract**; or if

32.1.11 The **Commissioner** shall be of the opinion that the **Work** cannot be completed within the time herein provided therefor or within the time to which such completion may have been extended; provided, however, that the impossibility of timely completion is, in the **Commissioner's** opinion, attributable to conditions within the **Contractor's** control; or if

32.1.12 The **Work** is not completed within the time herein provided therefor or within the time to which the **Contractor** may be entitled to have such completion extended; or if

32.1.13 Any statement or representation of the **Contractor** in the **Contract** or in any document submitted by the **Contractor** with respect to the **Work**, the **Project**, or the **Contract** (or for purposes of securing the **Contract**) was untrue or incorrect when made; or if

32.1.14 The **Contractor** or any of its officers, directors, partners, five percent (5%) shareholders, principals, or other persons substantially involved in its activities, commits any of the acts or omission of an illegal nature; or if

32.1.15 The **Contractor** shall be adjudged bankrupt or make an assignment for the benefit of creditors; or if

32.1.16 The **Contractor** shall fail to make prompt payment to persons supplying labor or materials for the work; or if

32.1.17 The **Contractor** shall fail or refuse to regard and adhere to the **Laws** or ordinances that apply to this Contract, or the instructions of the **City Engineer**.

32.2 Before the **Commissioner** shall exercise his/her right to declare the **Contractor** in default, the **Commissioner** shall give the **Contractor** an opportunity to be heard, upon not less than two (2) **Days** notice.

ARTICLE 33. EXERCISE OF THE RIGHT TO DECLARE DEFAULT

33.1 The right to declare **Contractor** in default for any of the grounds specified or referred to in the previous article shall be exercised by sending the **Contractor** a notice, signed by the **Commissioner**, setting forth the ground or grounds upon which such default is declared (hereinafter referred to as a "Notice of Default").

33.2 The **Commissioner's** determination that the **Contractor** is in default shall be conclusive, final and binding on the parties and such a finding shall preclude the **Contractor** from commencing a plenary action for any damages relating to the **Contract**. If the **Contractor** protests the determination of the **Commissioner**, the **Contractor** may commence a lawsuit in a court of competent jurisdiction of the State of New York under Article 78 of the New York Civil Practice Law and Rules.

ARTICLE 34. QUITTING THE SITE

34.1 Upon receipt of such Notice of Default the **Contractor** shall immediately discontinue all further operations under this **Contract** and shall immediately quit the **Site**, leaving untouched all plant, materials, equipment, tools and supplies then on the **Site**.

ARTICLE 35. COMPLETION OF THE WORK

35.1 The **Commissioner**, after declaring the **Contractor** in default, may then have the **Work** completed by such means and in such manner, by **Contract** with or without public letting, or otherwise, as he/she may deem advisable, utilizing for such purpose such of the **Contractor's**

plant, materials, equipment, tools and supplies remaining on the **Site**, and also such **Subcontractors**, as he/she may deem advisable.

35.2 After such completion, the **Commissioner** shall make a certificate stating the expense incurred in such completion, which shall include the cost of re-letting and also the total amount of liquidated damages (at the rate provided for in the **Contract Documents**) from the date when the **Work** should have been completed by the **Contractor** in accordance with the terms hereof to the date of actual completion of the **Work**. Such certificate shall be binding and conclusive upon the **Contractor**, its Sureties, and any person claiming under the **Contractor**, as to the amount thereof.

35.3 The expense of such completion, including any and all related and incidental costs, as certified by the **Commissioner**, and any liquidated damages assessed against the **Contractor**, shall be charged against and deducted out of monies which are earned by the **Contractor** prior to the date of default. Should the expense of such completion, as certified by the **Commissioner**, exceed the total sum which would have been payable under the **Contract** if it had been completed by the **Contractor**, any excess shall be paid by the **Contractor**.

ARTICLE 36. PARTIAL DEFAULT

36.1 In case the **Commissioner** shall declare the **Contractor** in default as to a part of the **Work** only, the **Contractor** shall discontinue such part, shall continue performing the remainder of the **Work** in strict conformity with the terms of this **Contract**, and shall in no way hinder or interfere with any other Contractor(s) or persons whom the **Commissioner** may engage to complete the **Work** as to which the **Contractor** was declared in default.

36.2 The provisions of this **Contract** relating to declaring the **Contractor** in default as to the entire **Work** shall be equally applicable to a declaration of partial default, except that the **Commissioner** shall be entitled to utilize for completion of the part of the **Work** as to which the **Contractor** was declared in default only such plant, materials, equipment, tools and supplies as had been previously used by the **Contractor** on such part.

ARTICLE 37. PERFORMANCE OF UNCOMPLETED WORK

37.1 In completing the whole or any part of the **Work** under the provision of this **Contract**, the **Commissioner** shall have the power to depart from or change or vary the terms and provisions of this **Contract**, provided, however, that such departure, change or variation is made for the purpose of reducing the time or expense of such completion. Such departure, change or variation, even to the extent of accepting a lesser or different performance, shall not affect the conclusiveness of the **Commissioner's** certificate of the cost of completion referred to in this **Contract**, nor shall it constitute a defense to an action to recover the amount by which such certificate exceeds the amount which would have been payable to the **Contractor** hereunder but for its default.

ARTICLE 38. OTHER REMEDIES

38.1 In addition to the right to declare the **Contractor** in default pursuant to this **Contract**, the **Commissioner** shall have the absolute right, in his/her sole discretion and without a hearing, to complete or cause to complete in the same manner as described in this **Contract**, any or all unsatisfactory or uncompleted punch list **Work** that remains after the completion date specified in the Final Approved Punch List. A written notice of the exercise of this right shall be sent to the **Contractor** who shall immediately quit the **Site** in accordance with the provisions of this **Contract**.

38.2 Any remedies contained in the **Contract** shall be in addition to any and all other legal or equitable remedies available to the parties.

38.3 The exercise by the **City** of any remedy set forth herein shall not be deemed a waiver by the **City** of any other legal or equitable remedy contained in this **Contract** or provided under **Law**.

ARTICLE 39. TERMINATION BY THE CITY

39.1 In addition to termination pursuant to any other article of this **Contract**, the **Commissioner** may, at any time, terminate this **Contract** by written notice to the **Contractor**. In the event of termination, the **Contractor** shall, upon receipt of such notice, unless otherwise directed by the **Commissioner**:

39.1.1 Stop **Work** on the date specified in the notice;

39.1.2 Take such action as may be necessary for the protection and preservation of the **City's** materials and property;

39.1.3 Cancel all cancelable orders for material and equipment;

39.1.4 Assign to the **City** and deliver to the **Site** or another location designated by the **Commissioner**, any no-cancelable orders for material and equipment that is not capable of use except in the performance of this **Contract** and has been specifically fabricated for the sole purpose of this **Contract** and not incorporated in the **Work**;

39.1.5 Take no action which will increase the amounts payable by the **City** under this **Contract**.

39.2 In the event of termination by the **City** pursuant to this article, payment to the **Contractor** will be for work completed prior to the termination:

39.2.1 On lump sum **Contracts** or on lump sum items, payment shall be on a pro rata portion of the lump sum bid amount, plus approved change orders, based on the percent

completion of **Work**, as determined by the **Commissioner** less all payments previously made to the **Contractor**. For purpose of determining the pro rata portion of this lump sum bid amount to which the **Contractor** is entitled, the Bid Breakdown submitted by **Contractor** for this **Contract** shall be considered but not dispositive. The **Commissioner's** determination hereunder shall be final, binding and conclusive.

39.2.2 On unit price contracts or items, payment for all completed units will be the unit price stated in the **Contract**, and for units that have been ordered but are only partially completed, payment will be a pro rata portion of the unit price stated in the **Contract** based upon the percent completion of the unit, less any payments previously made pursuant to this **Contract**.

39.3 In no event shall any payments under this article exceed the **Contract** price for such items.

39.4 The **City** may deduct or set off against any sums due and payable pursuant to this article, any deductions authorized by this **Contract** or by **Law** (including but not limited to damages) and any claims it may have against the **Contractor**. The **City's** exercise of the right to terminate the **Contract** pursuant to this article shall not impair or otherwise affect the **City's** right to assert any claims it may have against the **Contractor** in a plenary action.

39.5 Where the **Work** covered by the **Contract** has been substantially completed, as determined in writing by the **Commissioner**, termination of the **Work** shall be handled as an omission of **Work** pursuant to this **Contract**, in which case a Change Order will be issued to reflect an appropriate reduction in the **Contract** Sum, or if the amount is determined after final payment, such amount shall be paid by **Contractor**.

ARTICLE 40. NO DISCRIMINATION

40.1 The **Contractor** specifically agrees that:

40.1.1 In the hiring of employees for the performance of **Work** under this **Contract** or any subcontract hereunder, neither the **Contractor**, **Subcontractor**, nor any person acting on behalf of such **Contractor** or **Subcontractor**, shall by reason of race, creed, color or national origin discriminate against any citizen of the State of New York who is qualified and available to perform the **Work** to which the employment relates;

40.1.2 It will not engage in any unlawful discrimination against any employees or applicant for employment because of race, creed, color, national origin, sex, age, disability, marital status or sexual orientation with respect to all employment decisions including, but not limited to, recruitment, hiring, upgrading, demotion, downgrading, transfer, training, rates of pay or other forms of compensation, layoff, termination, and all other terms and conditions of employment;

40.1.3 It will not engage in any unlawful discrimination in the selection of **Subcontractors** on the basis of the owner's race, color, creed, national origin, sex, age, disability, marital status or sexual orientation.

40.2 Remedies for Violating Non-Discrimination:

40.2.1 There may be deducted from the amount payable to the **Contractor** by the **City** under this **Contract** a penalty of one hundred dollars (\$100.00) for each person for each **Day** during which such person was discriminated against or intimidated in violation of the provisions of this **Contract**;

40.2.2 This **Contract** may be cancelled or terminated by the **City** and all moneys due or to become due hereunder may be forfeited, for a second or any subsequent violation(s) of the terms or conditions of this article.

ARTICLE 41 . MISCELLANEOUS PROVISIONS

41.1 No Claims Against Officers, Agents or Employees: No claim whatsoever shall be made by the **Contractor** against any officer, agent or employee of the **City** for, or on account of, anything done or omitted to be done in connections with this **Contract**.

41.2 Notices: The **Contractor** hereby designates the business address specified in its bid, as the place where all notices, directions or other communications to the **Contractor** may be delivered, or to which they may be mailed. Actual delivery of any such notice, direction or communication to the aforesaid place, or depositing it in a postpaid wrapper addressed thereto in any post office box (P.O. Box) regularly maintained by the United States Postal Service, shall be conclusively deemed to be sufficient service thereof upon the **Contractor** as the date of such delivery or deposit. Such address may be changed at any time by an instrument in writing, executed and acknowledged by the **Contractor**, and delivered to the **Commissioner**. Nothing herein shall preclude, are render inoperative the service of any notice, direction or communication upon the **Contractor** personally, or, if the **Contractor** is a corporation, upon any officer thereof.

41.3 Unlawful Provisions Stricken: If this **Contract** contains any unlawful provision not an essential part of the **Contract** and which shall not appear to have been a controlling or material inducement to the making thereof, the same shall be deemed of no effect and shall, upon notice by either party, be deemed stricken from the **Contract** without effecting the binding force of the remainder.

41.4 All Legal Provisions Deemed Included: It is the intent and understanding of the parties to this **Contract** that each and every provision of **Law** required to be inserted in this **Contract** shall be and is inserted herein. Furthermore, it is hereby stipulated that every such provision is to be deemed to be inserted herein, and if, through mistake or otherwise, any such provision is not inserted, or is not inserted in correct form, then this **Contract** shall forthwith upon the application of either party may be amended by such insertion so as to comply strictly with the **Law** and without prejudice to the rights of either party hereunder.

41.5 Tax Exemption: The **City** is exempt from payment of Federal, State, local taxes and Sales and Compensation Use Taxes of the State of New York and of cities and counties on all materials and supplies sold to the **City** pursuant to the provisions of this **Contract**. These taxes are not to be included in bids. However, this exemption does not apply to tools, machinery,

equipment or other property leased by or to the **Contractor** or a **Subcontractor**, or to supplies and materials which even though they are consumed, are not incorporated into the completed **Work** (consumable supplies), and the **Contractor** and its **Subcontractors** shall be responsible for and pay any and all applicable taxes, including Sales and Compensation Use Taxes, on such leased tools, machinery, equipment or other property and upon all such unincorporated supplies and materials.

41.6 Choice of Law, Consent to Jurisdiction and Venue: This **Contract** shall be deemed to be executed in the **City** of Rome, New York, County of Oneida, New York, State of New York regardless of the domicile of the **Contractor**, and shall be governed by and construed in accordance with the **Laws** of the State of New York and the **Laws** of the United States, where applicable. The parties agree that any and all claims asserted against the **City** arising under this **Contract** or related thereto shall be heard and determined in the courts of the State of New York or Courts of the United States located in Oneida County, New York.

IN WITNESS WHEREOF, the parties have executed this **Contract** on the day and year first written above.

THE CITY OF ROME, NEW YORK

By: _____
(Signature of Mayor)

(Printed Name of Mayor)
MAYOR

(Contractor's Name)

By: _____
(Signature of Executing Officer)

(Printed Name of Officer)

(Title)

City Clerk

(ACKNOWLEDGMENT OF OFFICER OF OWNER EXECUTING CONTRACT)

STATE OF NEW YORK }
 } ss.
COUNTY OF ONEIDA }

On this _____ day of _____, 20____ before me personally
came and appeared _____
to me known, who being duly sworn, did depose and say that he/she is the
_____ of the City of Rome, New York, described herein, and he/she executed
the foregoing instrument; that by virtue of the authority conferred on him by law he/she subscribed his
name to the foregoing instrument and that he/she executed the same for the purposes therein mentioned.

Notary Public

(seal)

GENERAL MUNICIPAL LAW

STATE OF NEW YORK

Section 103-a

Effective July 1,1969

"Upon the refusal of a persons, when called before a Grand Jury to testify concerning any transaction or contract had with the State, any political subdivision thereof, a public authority or with any public department, agency or official of the State or any political subdivision thereof or of a public authority, to sign a waiver of immunity against subsequent criminal prosecution or to answer any relevant question concerning such transaction or contract. (a) such persons, and any firm, partnership or corporation of which he is a member, partner, director or officer shall be disqualified from thereafter selling to or submitting bids to or receiving awards from or entering into any contracts with any municipal corporation or any public department, agency or official thereof, for goods, work or services for a period of five year after such refusal, and (b) any and all contracts made with any municipal corporation or any public department, agency or official thereof, since the effective date of this law, by such person, and by any firm, partnership, or corporation of which he is a member, partner, director or officer may be canceled or terminated by the municipal corporation without incurring any penalty or damages on account of such cancellation or termination, but any moneys owing by the municipal corporation for goods delivered or work done prior to the cancellation or termination shall be paid, all pertinent to Section 103-a of the General Municipal Law of the State of New York."

**EQUAL EMPLOYMENT OPPORTUNITY
EXECUTIVE ORDER 11246
PART II - NONDISCRIMINATION IN EMPLOYMENT
BY GOVERNMENT CONTRACTORS AND SUBCONTRACTORS**

1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex or national origin. Such action shall include, but not be limited to the following, employment, upgrading, demotion, or transfer; recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.
2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.
3. The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer, advising the labor union or workers' representative of the Contractors' commitments under Section 202 of Executive Order 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. The Contractor will comply with all provisions of Executive Order No. 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
5. The Contractor will furnish all information and reports required by Executive Order No. 11246 of September 24, 1965, and by the rules regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
6. In the event of the Contractor's noncompliance with the non-discrimination clauses of this contract or with any of such rules, regulations, or orders, this Contract may be canceled, terminated or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order No. 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
7. The Contractor will include the provisions of Paragraphs 1 through 7 in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order No. 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as the contracting agency may direct as a means of enforcing such provisions including sanctions for noncompliance, PROVIDED, HOWEVER, that in the even the

Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such directions by the contracting agency, the Contractor may request the United States to enter into such litigation to protect the interest of the United States.

WORKERS' COMPENSATION LAW.

Section 57 Restriction on Issue of permits and the entering into Contract unless compensation is secured.

1. The head of a state or municipal department, board, commission or office authorized or required by law to issue any permit for or in connection with any work involving the employment of employees in a hazardous employment defined by this chapter, and notwithstanding any general or special statute requiring or authorizing the issue of such permits, shall not issue such permit unless proof duly subscribed by an insurance carrier is produced in a form satisfactory to the chair, that compensation for all employees has been secured as provided by this chapter. Nothing herein, however, shall be construed as creating any liability on the part of such state or municipal department, board, commission or office to pay any compensation to any such employee if so employed.

2. The head of a state or municipal department, board, commission or office authorized or required by law to enter into any contract for or in connection with any work involving the employment of employees in a hazardous employment defined by this chapter, notwithstanding any general or special statute requiring or authorizing any such contract, shall not enter into any such contract unless proof duly subscribed by an insurance carrier is produced in a form satisfactory to the chair, that compensation for all employees has been secured as provided by this chapter.

State of New York

WORKERS' COMPENSATION BOARD

THIS AGENCY EMPLOYS AND SERVES PEOPLE WITH DISABILITIES WITHOUT DISCRIMINATION.

ROBERT R. SNASHAIL
CHAIRMAN

Dear Sir/Madam:

The Workers' Compensation Law requires that a New York State or municipal agency, department, board, commission or office issues any permit or license, the applicant must submit, to such agency or department, proof that he or she has obtained the required workers' compensation and disability benefits coverage, or that he or she is not required to provide coverage under these Laws. (See attached copies of Section 57 of the Workers' Compensation Law and Section 220, subd. 8 of the Disability Benefits Law.) These requirements also apply to the renewal of an application for a permit or license, and any and all work covered by the permit or license, whether or not a governmental agency is involved.

In addition, effective April 7, 1993, Chapter 213 amended the above Laws to require that before a New York State or municipal agency, department, board, commission or office enters into any contract, the contractor must also submit proof that he or she has obtained the required workers' compensation and disability benefits coverage, or that he or she is not required to provide coverage. These requirements also apply to the renewal of such contracts.

I would appreciate your notifying the permit-issuing and contract-making agencies or departments within your jurisdiction of these requirements so that they may be able to comply with the Law. State Agencies are specifically requested to notify each department or group within their agency, which issues licenses or permits or makes contracts, of the Law's requirements.

Enclosed are samples of Forms C-105.2 and DB-120.1 (Certificates of Insurance), and Form SI-12 (Affidavit Certifying That Compensation has Been Secured), which are designed to provide necessary proof of coverage when completed by the insurance canter and/or the Workers' Compensation Board. Also enclosed is a sample of Form DB-155 (Compliance with DB Law), which may be submitted by self-insured employers under Disability Benefits Law as acceptable proof that disability benefits coverage has been obtained.

Please note that it is acceptable for employers insured by the State Insurance Fund to submit the Fund's computer generated certificate of insurance as proof of coverage, Form U-26.3 (sample enclosed), in place of prescribed Form C-105.2.

Employers who are not required by Law to provide workers' compensation and/or disability benefits coverage must submit Form C-105.21 (Statement That Applicant Does Not Require W.C. or D.B. Coverage), which when completed by the Workers' Compensation Board is proof that the applicant is not required to carry either type of insurance.

Thank you for your assistance in the enforcement of the above. If you require additional information regarding this or any other workers' compensation or disability benefits matter, please feel free to

contact WC Compliance, Workers' Compensation Board, 100 Broadway-Menands, Albany, New York 12241 telephone number (518) 486-51171.

DISABILITY BENEFITS LAW

Section 220 Penalties

8. (a) The head of a state or municipal department, board, commission or office authorized or required by law to issue any permit for or in connection with any work involving the employment of employees in employment as defined in this article, and notwithstanding any general or special statute requiring or authorizing the issue of such permits, shall not issue such permit unless proof duly subscribed by an insurance carrier is produced in a form satisfactory to the chair, that the payment of disability benefits for all employees has been secured as provided by this article. Nothing herein, however, shall be construed as creating any liability on the part of such state or municipal department, board, commission or office to pay any disability benefits to any such employee so employed.

(b) The head of a state or municipal department, board, commission or office authorized or required by law to enter into any contract for or in connection with any work invoking the employment of employees in employment as defined in this article, and notwithstanding any general or special statute requiring or authorizing any such contract, shall not enter into any such contract unless proof duly subscribed by an insurance carrier is produced in a form satisfactory to the chair, that the payment of disability benefits for all employees has been secured as provided by this article.

INFORMATION TO BIDDERS

INFORMATION TO BIDDERS

1. RECEIPT OF BIDS.

The City of Rome, New York (hereinafter "Owner" or "City"), invites bids on the form attached hereto, all blanks on which must be appropriately filled in.

All bids must be enclosed in a sealed envelope or container, which will be addressed to "Board of Estimate and Contract, City of Rome, New York," and shall be endorsed
The Owner may consider as informal any bid not prepared and submitted in accordance with the provisions hereof.

SPECIAL NOTICE TO BIDDERS FOR:

1. BID SECURITY.

Each bid must be accompanied by cash, Bid Bond, or by the certified check of the bidder in amount not less than five percent (5%) of the amount of the bid.

2. LIQUIDATED DAMAGES. (Execution of Contract and Bond)

The successful bidder, upon his failure, or refusal, to execute and deliver the contract and bond required within ten (10) days after he has received notice of the acceptance of his bid, shall be subject to Liquidated Damages as set forth at Table 108-1 of Section 200--INFORMATION TO BIDDERS, attached hereto.

2. QUALIFICATION OF BIDDERS.

In determining the qualifications of a Bidder, the Owner will consider his record in the performance of any contracts for construction work into which he may have previously entered with the Owner, or with public bodies or corporations, and the Owner expressly reserves the right to reject the Bid of such Bidder if such record discloses that such Bidder, in the opinion of the Owner has not properly performed such Contracts or has habitually and without just cause neglected the payment of bills or has otherwise disregarded his obligations to Subcontractors, material men or employees.

The Owner may make such investigation as he deems necessary to determine the ability of the Bidder to perform the work, and the Bidder shall furnish to the Owner all such information and data for this purpose as the Owner may request. The Owner reserves the right to reject any Bid if the evidence submitted by or investigation of such bidder fails to satisfy the Owner that such bidder is properly qualified to carry out the obligations of the Contract and to complete the work contemplated therein. Conditional bids will Owner, as liquidated damages for such failure, or refusal, the security deposited with his bid.

3. CONDITIONS OF WORK.

Each Bidder must inform himself fully of the conditions relating to the construction and labor under which the work is now or will be performed, failure to do so will not relieve a successful Bidder of his obligation to furnish all material and labor necessary to carry out the provisions of the Contract documents and to complete the contemplated work for the consideration set forth in his Bid.

4. CONSTRUCTION TERMS AND CONDITIONS.

The Bidder is warned that (1) the Construction Terms and Conditions hereinafter fully set forth in the Form of Contract will be rigidly enforced; (2) preference in the employment of workers shall be given to persons living in Rome, New York.

5. SECURITY FOR FAITHFUL PERFORMANCE.

Simultaneously with his delivery of the executed contract, the successful bidder must deliver to the Owner an executed bond in the amount of one hundred percent (100%) of the accepted Bid as security for the faithful performance of his contract and for the payment of all persons performing labor and furnishing materials in connection therewith, and having as surety thereon such surety company, or companies, as are acceptable to and approved by the Owner.

6. UNIT PRICES.

Proposals must be filled in on proposal sheets attached. The blank spaces in the proposal must be filled in as noted, and no change shall be made in the phraseology of the proposal or in the items mentioned therein. All unit prices to be written in words in the spaces provided and in figures in the space provided.

Proposals that contain any omissions, erasures, alterations, additions or items not called for in the itemized proposal, or that contain irregularities of any kind, may be rejected as informal.

7. TIME FOR COMPLETION.

The completion date for the project is **OCTOBER 31, 2026**. See Extensive Liquidated Damages Procedure set forth in first three pages of Information to Bidders. (Section 200)

8. OBLIGATION OF BIDDER.

At the time of the opening of Bids each Bidder will be presumed to have inspected the site and to have read and to be thoroughly familiar with the Plans and Contract Documents. The failure or omission of any Bidder to receive or examine any form, instrument or document shall in no way relieve any Bidder from any obligation in respect to his Bid.

9. INTENT OF CONTRACT.

The attention of persons intending to make Proposals is specifically called to that paragraph of the Contract which debars a Contractor from pleading misunderstanding or deception because of estimates of quantities, character, location or other conditions surrounding same.

10. AWARD OF CONTRACT.

The Board of Estimate and Contract reserves the right to reject any or all Proposals, and may advertise for new Proposals, if in its opinion the best interests of the City will thereby be promoted.

After Bids have been opened and tabulated, the Contract shall be awarded to the lowest responsible Bidder. Upon award of the Contract, the Bidder to whom the Contract is awarded shall be referred to as the "Contractor". The contract will be awarded based on the base bid and any combination of alternate bid items as deemed in the best interest of the City by the Commissioner of Public Works.

11. ESTIMATES AND PAYMENTS.

In computing amounts in estimate of work done the unit price bid will be used.

Payment of all estimates, including the final, will be made only for actual quantities involved in executing the Contract, and this determination as to the quantities involved in this contract shall be accepted as final, conclusive and binding upon the Contractor.

Upon the completion of the required work as shown on the Plans and Specifications, should the final estimate of quantities show either an increase, or decrease from the approximate estimate of quantities, then such variation will be computed at the unit price bid.

12. SCOPE OF WORK.

Shall be directed by the Engineer in charge (hereinafter as "Engineer in charge", "E. I.C." or "Engineer"), and said Engineer shall either be the City Engineer, or an Engineer, Architect or Construction Manager hired by City, whichever the case may be. All items of work in this contract shall be governed by the New York State Department of Transportation specifications

unless explicit instructions are included in these contract documents for any item of work. The Contractor shall obtain all work permits necessary to do work herein contained.

During the performance of this contract, the Contractor agrees as follows:

- a) The Contractor will not discriminate against any employee or applicant for employment because of race, creed, color or national origin, and will take affirmative action to insure that they are afforded equal employment opportunities without discrimination because of race, creed, color or national origin. Such action shall be taken with reference, but not be limited to: recruitment, employment, job assignment, promotion, upgrading, demotion, transfer, layoff or termination, rates of pay or other forms of compensation, and selection for training or retraining, including apprenticeship and on-the-job training;
- b) The Contractor will send to each labor union or representative of workers with which he has or is bound by a collective bargaining or other agreement or understanding, a notice to be provided by the State Commission for Human Rights, advising such labor union or representative of the Contractor's agreement under clauses (a) through (9) (hereinafter called "non-discrimination clauses"). If the Contractor is directed to do so by the contracting agency as such labor union or representative to furnish him with a written statement that such labor union or representative will not discriminate because of race, creed, color or national origin and that such labor union or representative either will affirmatively cooperate, within the limits of its legal and contractual authority, in the implementation of the policy and provisions of these non-discrimination clauses or that it consents and agrees that recruitment, employment and the terms and conditions of employment under this contract shall be in accordance with the purposes and provisions of these non-discrimination clauses. If such labor union or representative fails or refuses to comply with such a request that furnishes such a statement, the Contractor shall promptly notify the State Commission for Human Rights of such failure or refusal;
- c) The Contractor will post and keep posted in conspicuous places, available to employees and applicants for employment, notices to be provided by the State Commission for Human Rights setting forth the substance of the provision of clauses (a) and (b) and such provisions of the State's laws against discrimination as the State Commission for Human Rights shall determine;
- d) The Contractor will state, in all solicitations, or advertisements for employees placed by or on behalf of the Contractor, that all qualified applicants will be afforded equal opportunities without discrimination because of race, creed, color or national origin;
- e) The Contractor will comply with the provisions of Sections 291-299 of the Executive Law and the Civil Rights Law, will furnish all information and reports deemed necessary by the State Commission for Human Rights under these non-discrimination clauses and such sections of the Executive Law, and will permit access to his books, reports and accounts by the State Commission for Human Rights, the Attorney General and the Industrial Commissioner for the purposes of investigation to ascertain compliance with these non-discrimination clauses and such sections of the Executive Law and Civil Rights Law;

f) The Contract may be forthwith canceled, terminated or suspended, in whole or in part, by the contracting agency upon the basis of a finding made by the State Commission for Human Rights that the Contractor has not complied with these non-discrimination clauses, and the Contractor may be declared ineligible for future contracts made by or on behalf of the State or a public authority or agency of the State, until he satisfies the State Commission for Human Rights that he has established and is carrying out a program in conformity with the provisions of these non-discrimination clauses. Such findings shall be made by the State Commission for Human Rights after conciliation efforts by the Commission have failed to achieve compliance with these non-discrimination clauses and after a verified complaint has been filed with the Commission, notice thereof has been given to the Contractor and an opportunity has been afforded him to be heard publicly before three members of the Commission. Such sanctions may be imposed and remedies involved independently of or in addition to sanctions and remedies otherwise provided by law;

g) The Contractor will include the provisions of clause (a) through (f) in every subcontract or purchase order in such a manner that such provisions will be binding upon each Subcontractor or vendor as to operations to be performed within the State of New York. The Contractor will take such action in enforcing such provisions of such subcontract or purchase order as the contracting agency may direct, including sanctions or remedies for non-compliance. If the Contractor becomes involved in or is threatened with litigation with a subcontractor or vendor as a result of such direction by the contracting agency, the Contractor shall promptly so notify the Attorney General, requesting him to intervene and protect the interests of the State of New York.

INFORMATION TO BIDDERS

The City of Rome recognizes the importance of having public works projects completed efficiently, on time and within budget. The City further understands an important element in obtaining these goals is the utilization of capable, well-trained persons. The City acknowledges that Trade Unions are a potential source of such persons.

The City recognizes the possibility for individual contractors to enter into agreements with Labor Unions for the provision of skilled laborers and encourages the execution of such agreements.

The City of Rome will give significant attention to Contractors utilizing Union labor and to Contractors whom agree to the use of project labor agreements with the local trades.

FAILURE TO COMPLETE WORK ON TIME

For each calendar day that any work shall remain uncompleted after the Contract date specified for the completion of the work provided for in the Contract, the amount per calendar day specified in Table 108-1, Schedule of Liquidated Damages will be deducted from any money due the Contractor, not as a penalty but as liquidated damages; provided, however, that due account shall be taken of any

adjustment of the contract time for completion of the work as provided for elsewhere in the Contract or Specifications.

Permitting the Contractor to continue and finish the work or any part of it after the time fixed for its completion or after the date to which the time for completion may have been extended will in no way operate as a waiver on the part of the City of any of its rights under the contract.

The Commissioner of Public Works (hereinafter referred to as "Commissioner") may waive such portions of the liquidated damages as may accrue if he deems the work is in such condition as to be safe and convenient for the use by the traveling and/or parking public.

The assessing of liquidated damages shall be, in addition to Engineering charges as provided for in 108-04 Extension of Time, of these specifications.

TABLE 108-1 SCHEDULE OF LIQUIDATED DAMAGES

Original Contract Amount Liquidated Damages		
<u>From More Than</u>	<u>To and Including</u>	<u>Per Calendar Day</u>
\$ 0	\$ 25,000	\$ 50
\$25,001	\$ 50,000	\$ 75
\$50,001	\$100,000	\$ 200
\$100,001	\$500,000	\$ 500
\$500,001	\$2,000,000	\$ 600
\$2,000,001	\$5,000,000	\$700
\$5,000,000	\$10,000,000	\$800
\$10,000,000		\$1,000

NOTE: Liquidated Damages for Special very large contracts will be specified in the contract proposal.

EXTENSION OF TIME

When the work embraced in the Contract is not completed on or before the date specified therein, all appropriate engineering and inspection expenses incurred by the City, its consultants and inspection agencies, and by railroad companies, from the scheduled contract completion date to the final date of completion of the work, may be charged to the Contractor. When assessed, the charges shall be deducted from any moneys due the Contractor.

Before assessing such charges, the Commissioner will give due consideration to factors attributing to such delay due to extenuating circumstances beyond the control of the Contractor limited to the following:

1. The work or the presence on the Contract site of any third party, including but not limited to that of other contractors or personnel employed by the City, by other public bodies, by railroad, transportation or utility companies or corporations, or by private enterprises, or any delay in progressing such work;
2. The existence of any facility or appurtenance owned, operated, or maintained by any third party;

3. The act, or failure to act, of any public or governmental body, including, but not limited to, approvals, permits, restrictions, regulations or ordinances;
4. Restraining order, injunctions, or judgments issued by a court;
5. Any industry-wide labor boycotts, strikes, picketing or similar situations, as differentiated from jurisdictional disputes or labor actions affecting a single or small group of contractors or suppliers;
6. Any industry-wide shortages of supplies or materials required by the contract work, as differentiated from delays in delivery by a specific or small group of suppliers;
7. Unusually severe storms of extended duration or impact, other than heavy storms or climatic conditions which could generally be anticipated by the bidders, as well as floods, droughts, tidal waves, fires, hurricanes, earthquakes, landslides, or other catastrophes;
8. Determination by the Department to open certain sections of the project to traffic before the entire work is completed;
9. Major unanticipated additional work, which significantly affects the scheduled completion of the contract;
10. Failure of the City to provide individual rights-of-way parcels for an extended period of time beyond that indicated by the contract if such unavailability, as determined by the Commissioner, significantly affects the scheduled completion of the contract.

Such charges will be assessed in cases where the work has been unduly delayed by the Contractor for unwarranted reasons, inefficient operations, or for any other reason for which the City determines the Contractor to be liable. Reasonable time necessary for reviews by the City or its agents of shop drawings, for changes or additions to the work to meet field conditions which do not significantly affect the scheduled completion of the Contract, delays incurred by seasonal and weather limitations, localized labor actions and shortages of supplies or materials, and other situations which should be anticipated are neither compensatory nor eligible for extensions of time without the assessment of engineering and inspection charges.

NOTICE TO BIDDERS

1. All work shall be done in such a manner as to not obstruct, impede or interfere with the operation of National Grid Power Corporation's facilities. All earth or soil disturbed by the work being performed by the Contractor shall be replaced with proper fill and the surface thereof restored to natural ground level.

2. Contractor, in excavating with mechanized excavating equipment, blasting or demolition, shall not strike or damage any gas pipe or its protective coating or any other underground facilities of National Grid Power Corporation, which is part of its gas system and shall protect said facilities against possible damage. If such facilities having been staked or marked in accordance with the standard procedure of National Grid Power Corporation are to be exposed or are likely to be exposed, hand-digging only shall be used in such circumstances, and such support as may be necessary for the protection of the facilities shall be employed, and such support must be approved by a representative of National Grid Power Corporation, provided, however, that nothing contained herein shall limit or reduce the statutory duty as provided for in Section 322-a of the General Business Law of the State of New York, reference to which is hereby made.

3. In the event that damage does occur to underground gas pipes or other facilities, including damage to coating of the gas pipe, Contractor shall immediately notify National Grid Power Corporation. Said damages are to be repaired by National Grid Power Corporation at the cost and expense of the Contractor.

4. Contractor shall avoid shock loading of National Grid Power Corporation's pipes, such as would be experienced with the use of hydro hammers.

UNIT BID PRICES

1. UNBALANCED BIDS may be rejected where the unit bid prices are unrealistic to the reasonably estimated cost of performing the work. Bids may be considered informal and rejected, as determined by the City / Engineer.

CONTRACTOR MUST NOTE

THE ROME COMMON COUNCIL, on March 24, 1993, adopted Resolution No. 52 relative to the hiring of Rome residents. The Common Council of the City of Rome, New York, does recommend that parties bidding on public works projects in the City of Rome take measures to insure that not less than seventy five percent (75%) of labor hired to perform such work shall be residents of the City of Rome, New York. To accomplish this goal, the successful Bidder, must make a good faith effort to meet the intent of this Resolution.

The successful bidder prior to receipt of final payment must communicate to the Common Council, in writing, all efforts made to accomplish the intent of Resolution No. 52.

CAUTION TO BIDDERS

Erasures or crossing out figures or words in the amount columns of Bid Sheet **will NOT be permitted**. If erasures or crossing out appears on any sheet, it will justify the Board of Estimate and Contract of the City of Rome, New York, to disqualify the entire contract bid in which it appears.

In the event errors are made on any Bid Sheet, the bidder may call for and receive new ones from the Department of Engineers by surrendering the sheet the errors were made on.

CAUTION TO BIDDERS

If, for any reason caused by construction, reconstruction, removal or relocation, any STOP, YIELD, or other TRAFFIC SIGN DEVICE at any street intersection is removed, it **MUST BE IMMEDIATELY RESET** to assure maintenance of traffic as established by Ordinance and Law of the City of Rome.

If, for any reason, there should be a temporary delay in resetting a device, it will be the obligation of the Contractor to furnish a flagman or other suitable guidance of traffic and the proper authorities are to be NOTIFIED.

CERTIFICATION OF MATERIALS

The Contractor shall provide the City of Rome with certified records of testing and/or certified statements from the manufacturer that materials furnished under this contract have been manufactured and tested in conformity with the specifications.

DEFECTIVE WORK OR MATERIALS

The inspection of the work shall not relieve the Contractor of any of his obligations to fulfill his Contract as herein prescribed and defective work shall be made good and unsuitable materials may be rejected, notwithstanding that such work and materials may have been previously inspected by the City of Rome and accepted or estimated for payment.

INSPECTION OF THE SITE

The Contractor is advised to carefully examine the work areas to make his own determination of the existing conditions. Submission of the proposal for performance of the work implies that the bidder has examined the existing work areas, and has acquainted himself by means of site inspection and other means with all the requirements of the work. No claims for additional compensation will be considered because of the bidder's failure to fully inform himself or his subcontractors of all said requirements.

NO GUARANTEE

The Owner does not guarantee that structures, equipment, piping, conduits and other appurtenances encountered during construction will be the same as those indicated on the drawings of the specifications. The Contractor must satisfy himself regarding the character, quantities and

conditions of the various materials and the work to be done. The Contractor shall make necessary modifications in the work relating to existing structures as may be required where existing equipment and appurtenances, etc. are not found exactly as indicated, without additional compensation or extension of time.

DIMENSIONS OF EXISTING STRUCTURES AND EQUIPMENT

Where the dimensions and locations of existing structures, piping, equipment or appurtenances are of critical importance to the performance of the work, the Contractor shall establish or verify such dimensions and locations in the field before the fabrication of any material or equipment which is dependent on the accuracy of such information.

EQUIPMENT AND PIPE LOCATION

Equipment and pipelines shall be located substantially as indicated on the drawings, but the right is reserved by the owner to make such modifications in locating as may be found desirable to avoid interference with existing structures, piping or for other reasons where pipe material or fittings, etc. are noted on the contract drawings, such notation is for the Contractor's convenience and does not relieve him from laying or jointing different or additional items where required without additional compensation.

The locations of existing underground utilities and structures are shown in an approximate way. The Contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the Contractor's failure to exactly locate and preserve any and all underground utilities.

COMPACTION OF SOILS AND PAVEMENT

Compaction of soils and pavement shall be achieved by the use of suitable methods and adequate equipment. The minimum density to be obtained in compaction soils shall be the following percentages of "maximum density" as defined in ASTM D 698, Moisture Density Relations of Soils (Standard Proctor Compaction Test), Method C, including Note 2:

<u>LOCATION</u>	<u>PERCENTAGE</u>
a) Foundation material under slabs on grade, piping and other structures	95%
b) Backfill of trenches Compaction	95% when pavement will be placed atop the backfill; and 90% when grass will be placed atop the backfill.
c) Fill for seeded and other open areas	90%
d) Fill under pavements	95%
e) Base course of pavement	98%

Compacted fill and pavement course not meeting required density when tested in place shall be replaced or re-worked until additional tests, at Contractor's expense, indicate compliance with the Specifications.

In reference to Erosion Control the specifications are as follows:

1G1 - GENERAL

In concert with the policy established by the United States Environmental Protection Agency (USEPA) memorandum 78-1, it shall be the Contractor's responsibility to control erosion of and sediment-runoff from disturbed lands or excavations in connection with his operations. Such control measures may be in the form of specific construction practices combined with a planned sequence of operations, including use of temporary structures, dams, ditches, basins, pumping systems, etc. (as applicable) to accomplish this objective.

USEPA concern in this matter is expressed by the following paragraph, which appears in PRM 78-1:

"Problems associated with erosion and sediment loads resulting from construction activity have long been recognized. Erosion and subsequent excess sediment runoff are among the major factors directly responsible for non-point source pollution in streams and lakes. Additional problems which can occur include logging of streams and lakes, alteration of natural habitats, damage to the aesthetics of surface waters."

1G2 - SCHEDULE

Taking into account specific constraints or other criteria outlined herein, the Contractor shall prepare a detailed schedule which sets forth his program of operations to effectively control erosion and sediment runoff at all times during construction of the work. Two (2) copies shall be kept at the Project site at all times, and shall be made available for examination by authorized representatives of the regulatory agencies having jurisdiction over the Project.

The schedule shall be arranged so as to include:

- a) Chronological completion dates for each temporary (and permanent) measure for controlling erosion and sediment;
- b) Location, type and purpose for each temporary measure to be undertaken;
- c) Dates when those temporary measures will be removed.

Permanent structures, which may be specified elsewhere in the Contract Document, shall be incorporated in the regular Progress Schedule for completing the work.

IG3 - ADJUSTMENTS

If the planed measured do not result in effective control of erosion and sediment runoff, to the satisfaction of the regulatory agencies having jurisdiction over the Project, the Contractor shall immediately adjust his program and/or institute additional measures so as to eliminate excessive erosion and sediment runoff.

STOCKPILING

All materials will be stockpiled before any material is used or brought on site. The Engineer in charge will inspect such stockpiles. The stockpiles will state type of material and item number. The Engineer will require sieve analysis and soundness test

SURFACE

The Contractor shall maintain the condition of the traveled way so it is consistent with the appropriate speed limit.

The Contractor shall provide a traveled way suitable for two lanes of moving traffic unless otherwise stated in the Contract Documents. The traveled way shall be kept reasonably smooth and hard at all times, and shall be well drained and free of potholes, bumps, irregularities and depressions that hold or retain water. Construction operations shall be conducted to insure a minimum of delay to traffic. Stopping traffic for more than five minutes shall not be permitted unless specifically authorized in writing by the Owner. The necessary equipment and personnel to attain and maintain a satisfactory riding surface shall be available and used as needed at all times when work is under way and when work is temporarily suspended for any period of time. Special attention to maintenance of a satisfactory traveled way shall be given during weekends, holidays and the winter season.

The Contractor shall keep the traveled way free of foreign objects such as spilled earth, rock, timber and other items that may fall from transporting vehicles. Materials spilled or dropped from the undercarriage of any vehicle used in the Contractor's operations along or across any public traveled way both within or outside the Contract limits shall be removed immediately.

Dusty conditions resulting from the Contractor's operations shall be corrected by the use of calcium chloride and/or water. Water used as a dust palliative shall be distributed uniformly over a minimum width of eight feet by the use of suitable spray heads or spray bar. Existing paved surfaces are to be kept dust free by brooming, washing with water or use of calcium chloride.

DRAINAGE

All drainage facilities and other highway elements on the existing roadways and temporary detours must be adequately maintained. Ditches shall be provided at all times, even during grading operations and periods of accumulated plowed snow, to adequately drain the traveled way and the remainder of the right-of-way areas. Stormwater access to catch basins and storm drains to be maintained.

SNOW REMOVAL

The Contractor shall maintain the traveled way in such a condition and conduct operations in such a manner that snow and ice may be readily controlled by others as necessary, and in such a manner that proper drainage is provided for the melting snow in the banks resulting from normal plowing. This shall include, but not be limited to, the cutting of weeps through banked or accumulated snow to provide proper drainage of surface runoff into the highway ditches and/or culverts. The Contractor shall not, however, be responsible for snow and ice control on the pavement or traveled way.

DELINEATION

The Contractor shall furnish, erect, move and remove delineation and guiding devices as required and directed by the Engineer. In areas where grading is being done, a safe and reasonable roadway shall be properly delineated at all times, either by the use of guiding devices or flagman. The Contractor shall delineate areas where there is a drop-off near the edge of the traveled way and areas on which it is unsafe to travel.

Where the drop-off is less than six inches, and where soft or unsafe areas occur, an approved delineator shall be placed along the edge of the traveled way at intervals of not more than 200 feet. Where the drop-off is greater than 18 inches, a continuous delineation consisting of 2 inches or wider brightly colored tape, ribbon, or other similar, flexible material as approved by the Engineer shall be used in addition to the individual delineators spaced not over 50 feet apart.

Plastic drums or containers set on end may be used as delineators, provided they are properly painted and contain reflective delineators in accordance with the MUTCD. They shall be kept clean at all times. Other markers or delineators may be circular or rectangular in shape and shall be constructed of reflective buttons having a minimum diameter of 3 inches. All reflective delineators or markers shall conform to the requirements of the MUTCD. Steel drums shall not be used as delineators.

REMOVAL OF EXISTING PAVEMENT MARKINGS

The Contractor shall remove the existing pavement markings to the extent as shown on the plans and in all cases where they may cause confusion for the planned traffic flow. This shall include any pavement markings that are added during the course of the work.

The method of removal is subject to the approval of the Engineer. Painting out pavement markings with black paint will only be approved for short-term use, and when the pavement area will be

resurfaced or removed during this contract. If, in the opinion of the Engineer, the paint over the markings wears off to the point where it could cause confusion to the motoring public, then the Contractor shall re-paint or otherwise remove the markings at his own expense. Grinding, scraping, sandblasting, etc., to remove markings shall be conducted in such a manner that the finished pavement surface is not damaged or left in a pattern that could confuse the motoring public.

PAVEMENT MARKINGS

The Contractor shall furnish and apply pavement markings where shown on the plans or as ordered by the Engineer in accordance with the MUTCD. Any course of Asphalt Concrete, including base and binder course, upon which traffic will be maintained shall be properly marked in accordance with this Specification before the end of the working day, except for residential streets or rural roads not previously marked.

Temporary pavement markings shall be paint, tape, or raised reflective markers.

Paint materials and application should be as described in NYSDOT Standard Specification Section 640 - Reflective Pavement Marking Paints. Stripe width shall be between 4 and 6 inches.

Temporary marking tape shall be between 4 and 6 inches wide, and conform to the shape of, and adhere to the surface upon which it is applied. Tape shall be applied in conformance with the manufacturer's recommendations.

Temporary raised reflective markers shall be Stimsonite Model 66 as manufactured by America Corporation; or equal. They shall be applied in conformance with the manufacturer's recommendations. The distance between markers shall be as shown in the plans. Raised reflective markers will not be used during the winter season.

Temporary pavement markings shall be the same length and pattern as required for permanent markings except under the following circumstances. Two foot length skip marks" may be considered acceptable for a period of seven days or less.

EXISTING SIGNING

All official existing highway signs, markers, delineators and their supports located within the contract limits shall remain under the control and jurisdiction of the NYSDOT, County Highway Department, or local highway department and shall be maintained for the duration of the contract by the Contractor as directed by each sign Owner.

Should sign relocation be necessary at various stages of construction, they shall be placed in conformance with the MUTCD or as required by the Owner.

Should sign relocation's be necessary at various stages of construction, they shall be placed in conformance with the MUTCD or as required by the Owner. Appropriate directional signing shall also be used in conjunction with route marker signs.

The Contractor shall remove existing signs, markers and delineators and their supports which interfere with his construction operations; signs, markers and delineators not to be replaced, shall be cleaned and delivered to the highway department. Signs, markers and delineators lost or damaged because of negligence on the part of the Contractor, shall be replaced at the Contractor's expense.

NEW CONSTRUCTION SIGNING

The Contractor shall furnish and erect, move and remove, as required by MUTCD requirements, as shown on the plans or as required by the Owner, reflective signs to adequately and safely inform and direct the motorist and to satisfy legal requirements.

All signs shall be kept clean, mounted at the required height on adequate supports and placed in proper position and alignment so as to give maximum visibility both night and day. All wood supports and backs of plywood sign panels shall be painted with two coats of white paint. Sign types and sizes shall conform to the MUTCD.

All signs shall be mounted in accordance with the MUTCD. All signs shall be mounted at a height of at least five feet unless otherwise shown on the plans.

All signs shall be the property of the Contractor and shall be maintained in good condition for the duration of the Contract and removed from the work site when the work is complete.

DETOURS

It is the Contractor's responsibility to submit for review and receive approval for all proposed detours from City Engineer and Owners, Police, Fire and highway departments, and secure the required permits, if any, prior to construction of the detour. All detour signing, markings, flagmen, and temporary construction must be in place before commencement of work that is within the traveled way or adjacent shoulder.

Not more than one block, nor more than one cross-street intersection may be torn up, obstructed, or closed to travel at one time without permission of the Owner. If the project involves pipe-laying operations, and if more than one pipe-laying crew is operating at separate locations in the work area, this requirement shall apply to each crew's operations, but shall be consistent with traffic maintenance procedures required by the Owner.

The Contractor shall assume full responsibility for providing access to any dwelling, building, or hospital in case of fire or other emergency. We shall review with, and obtain approval from, the local fire and police departments regarding any anticipated detours, obstruction to the flow of traffic, fire apparatus, ambulances or otherwise.

When the normal route of vehicular access to any property must be temporarily obstructed, the Contractor shall notify the affected property owner at least 24 hours in advance of his intended operations than one day following the start of construction at that location. Vehicular access to hospitals, fire and police departments must be provided at all times.

FLAGMEN

The Contractor shall provide competent flagmen at all times at work sites when it is required to stop traffic intermittently as necessitated by work progress or to maintain continuous traffic past a work site at reduced speeds or the number of usable traffic lanes are reduced by the Contractor's operations.

The flagmen shall possess the following minimum qualifications:

1. Average intelligence.
2. Good physical condition, including sight and hearing.
3. Mental alertness.
4. Courteous but firm manner.
5. Neat appearance.
6. Sense of responsibility for safety of public and crew.

The flagmen shall be trained in flagging procedures and wear orange hard-hats and vests in conformance with the applied sections of the MUTCD. If, in the opinion of the Engineer, the flagmen selected by the Contractor do not possess the minimum qualifications they shall be removed from the work site and replaced with competent individuals from the Contractor's crew. If the Contractor is unable to supply a competent person or persons from his own crew, the Contractor shall coordinate and compensate as required, at his own expense, a local police officer to perform flagging procedures for the remainder of the contract.

SITE RESTORATION

The Contractor shall restore the Project site to the same conditions they found before commencing operations or they shall modify and develop the site to the finished conditions shown on the drawings. All areas which are damaged or disturbed by the contractors' operations shall be restored, repaired or replaced to the same or superior condition which existed prior to the construction operation unless otherwise shown on the drawings. Existing cultivated or landscaped items such as trees, shrubs, hedges, saplings, vines, ground cover vegetation, etc. shall be reestablished or replaced with new materials.

AWARD OF CONTRACT

Owner reserves the right to reject any and all Bids, to waive any and all informalities not involving, price, time or changes in the work and to negotiate contract terms with the successful bidder

and the right to disregard all non-conforming, non responsive, unbalanced or conditional bids. Also, Owner reserves the right to reject the Bid of any Bidder if Owner believes that it would not be in the best interest of the Owner and/or project to make an award to that Bidder, whether because the Bid is not responsive or the Bidder is unqualified or of doubtful financial ability or fails to meet any other pertinent standard or criteria established by owner. Bidder to whom contract is awarded shall be referred to as the "Contractor".

Discrepancies between words or figures will be resolved in favor of words. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum. Bids containing incomplete or no price information for any bid item which thus prevents evaluation of the extended total for that Bid item will be rejected.

SECURITY AND GUARANTEE:

Before the final payment is made to the contractor by the City for **all work** performed under this contract, the Contractor must deliver to the City an Executed Guarantee Bond or Maintenance Bond in the amount of 100 percent (100%) of the final estimate for all work. This Bond will be in effect for **ONE 1 YEAR** from the date of final acceptance of the work, and, notwithstanding any provision of the Contract or this document to the contrary, for purposes of this provision, the final acceptance date will be the date of final payment, or as approved by the Commissioner of Public Works. The bond shall be approved by the Corporation Counsel.

NOTICE TO ALL BIDDERS

Prior to the exceeding of any item, which will result in the increase in the total Contract price, approval of the City of Rome Board of Estimate and Contract must be obtained. The Contractor must give written notice of exceeding the price of any item to the Commissioner of Public Works or his representative. Without formal approval of the Board of Estimate and Contract, or the written acceptance by at least 3 (three) board members, the Contractor is not authorized to proceed. If the Contractor undertakes any work without approvals listed above, it is at their full responsibility and does not obligate the City or its agents in any way.

The Department of Engineers' will reserve the right to delete or add any items or special projects to this project

Contractors and/or Subcontractors are hereby put on notice that the provisions of Industrial Code Rule 53 (12 NYCRR) effective April 1, 1975 apply to this project and no direct payment for any work required by the Code will be made.

SOIL EROSION, WATER AND AIR POLLUTION ABATEMENT.

The Contractor shall schedule and conduct his operations to minimize erosion of soils and to minimize silting and muddying of streams, rivers, irrigation systems, impoundments (lakes, reservoirs, etc.) and lands adjacent to or affected by the work. Construction of drainage facilities and performance of other contract work, which will contribute to the control of erosion and sedimentation shall be carried out in conjunction with earthwork operations, or as soon thereafter as practicable. The area of bare soil exposed at any one time by construction operations shall be kept to a minimum.

At the pre-construction conference or prior to the start of the applicable construction, the Contractor shall submit to the Engineer, for acceptance, schedules for accomplishment of temporary and permanent erosion control work as are applicable for clearing and grubbing; grading; and bridges and other structures at watercourses; construction; and paving. In addition, he shall also submit for acceptance, at the same time, his proposed method of erosion control on haul roads and borrow pits, and his plan for disposal of surplus excavated materials. No work shall be started until the erosion control schedules and methods of operation have been accepted by the Engineer. If conditions change during construction, the Contractor may be required to submit a revised schedule for acceptance as directed by the Engineer.

Whenever the Contractor's operations, carried out in accordance with the approved erosion control schedule, result in a situation where temporary erosion control measures not shown on the plans, must be taken and these measures are approved or ordered by the Engineer, the Contractor shall conduct this work in accordance with the provisions in NYSDOT §209, "Temporary Soil Erosion and Water Pollution Control."

In carrying out the control measures under this subsection, the Contractor will be guided by, but not limited to, the following controls:

- A. When borrow material is obtained from other than commercially operated sources, erosion of the borrow site shall be so controlled both during and after completion of the work that erosion will be minimized and minimal sediment will enter waterways, impoundments or adjacent properties. Waste or spoil areas and construction roads shall be located, constructed and maintained in a manner that will minimize sediment entering waterways and impoundments. The Contractor shall submit grading plans for all borrow pits or areas, spoil or waste areas to the Engineer for acceptance prior to the start of work on, or the use of, such areas. The grading plans shall indicate the sequence of operations, temporary slopes, and other factors, which may have an influence on erosion control;
- B. Frequent fording of live waterways will not be permitted; therefore, temporary bridges or other structures shall be used wherever an appreciable number of waterway crossings are necessary. Unless otherwise approved in writing by the Engineer, mechanized equipment shall not be operated in live waterways;
- C. When work areas or gravel pits are located in or adjacent to live waterways and impoundments, such areas shall be separated from the rest of the waterway or impoundment by a dike or other barrier to minimize sediment entering a flowing

waterway or impoundment. Care shall be taken during the construction and removal of such barriers to minimize the muddying of a waterway or impoundment;

D. All waterways shall be cleared as soon as practicable of false-work, piling, debris or other obstructions placed during construction operations and which are not a part of the finished work. Ditches which are filled, or partly inoperative shall be cleaned and made operative before the Contractor stops work for any day, and shall be maintained in a condition satisfactory to the Engineer for the duration of the contract;

E. Water from aggregate washing or other operations containing sediment shall be treated by filtration, settling basin or other means sufficient to reduce the turbidity so as not to cause a substantial visible contrast to natural conditions. Wash water or waste from concrete mixing operations shall not be allowed to enter waterways or impoundments;

F. Pollutants such as fuels, lubricants, bitumens, raw sewage and other harmful materials shall not be discharged in, on or near waterways and impoundments or into natural or manmade channels leading thereto;

G. All applicable regulations of fish and wildlife agencies and statutes relating to the prevention and abatement of pollution shall be complied with in the performance of the contract;

H. Any material generated by any activity for the development, modification and construction of any transportation facility *shall not* be burned on or off the contract site. This shall include but not be limited to land clearing material and demolition material. Such material shall hereinafter be referred to as disposable material in the clearing and grubbing specifications;

I. The Contractor shall not discharge dust into the atmosphere of such quantity, character or duration that it unreasonably interferes with the comfortable enjoyment of life and property or is harmful to plants or animals.

No payment will be made for any labor, material or equipment needed for soil erosion, water and air pollution abatement as described above.

When it becomes necessary, the Engineer will inform the Contractor of unsatisfactory construction procedures and operations insofar as erosion control, water and air pollution are concerned. If the unsatisfactory construction procedures and operations are not corrected promptly, the Engineer may suspend the performance of any or all of other construction until the unsatisfactory condition has been corrected.

MAINTENANCE AND PROTECTION OF TRAFFIC

The Contractor shall maintain traffic and protect the public from damage to persons and property within the limits of and for the duration of the Contract.

A. Traffic Signs

The Contractor shall place "Road Work Ahead" signs in such locations that all motorists traveling towards the area of construction, including intersecting streets will be notified of the work area at least 100 feet prior to entering the work zone. Signs shall be adequately supported and located so that they are easily readable by the public at all times.

Signs shall remain in advance of the work area at all times, including overnight, until all construction operations are complete. Where construction operations require other information to be displayed to the motorists, additional signs showing this information shall be furnished by the contractor and posted in a manner acceptable to the Engineer. All signs shall conform to NYSDOT standards for size, material and legend.

B. Barricades

The Contractor shall provide and maintain lighted and/or unlighted barricades to prevent traffic movement within a specific area that is unsuitable for use by vehicles in the opinion of the Engineer. Said barricades shall conform to the standards of the Department of Engineering. All barricades to remain overnight shall be lighted.

C. Flagmen

The Contractor shall provide flagmen at all times to maintain vehicular and pedestrian traffic while the work is in progress. All flagmen shall use flagging techniques recommended by the NY State Manual of Uniform Traffic Control Devices.

D. Street Closings

No street shall be closed for milling operations unless authorized by the Engineer.

E. Penalties

When the Contractor fails to comply with instructions of the Engineer regarding the maintenance and protection of traffic, he shall be liable to the City of Rome \$100.00 per calendar day per city block as liquidated damages. This liquidated damage clause shall be in addition to that stipulated for failure to complete the contract on time, as specified at Table 108-1 of Section 200-- INFORMATION TO BIDDERS, attached hereto.

FIELD CHANGE PAYMENT

The Field Change Payment provides a contract contingency allowance for the timely payment of authorized extra work that was completed to fulfill the intent of the contract documents.

BASIS OF PAYMENT-

The work to be paid under the Field Change Payment item must receive prior authorization in conformance with changes, contingences, extra work and deductions. Disputed work, force account work or payments for time related provisions are not eligible for Field Change Payment.

Field Change Payment item payments will be determined from the quantities and the unit prices of eligible work that have been completed. Work for which Field Change Payment item payments are processed will be paid in accordance with the specifications governing the work. Prior to processing the final agreement, the Field Change Payment item payments will be reconciled through an Order-on Contract, such that the amount of Field Change Payment item is converted to the corresponding quantities of the pertinent contract pay items. When the amount of Field Change Payment item payments is transferred to the appropriate items, the remaining amount of Field Change Payment funds will be deleted.

MOBILIZATION

Under this work the Contractor shall provide all required bonds, insurance, and pre-financing and shall set up any necessary general plant, including shops, storage area, office and such sanitary and other facilities as required by local or state regulation.

It shall include all costs including labor and equipment to move and relocate all equipment necessary to complete the work throughout the city.

Such materials as required for mobilization and that are not to be part of the completed contract shall be as determined by the Contractor, except that they shall conform to any local or State law, regulation or code.

The work required to provide the above facilities and service for mobilization shall be done in a safe workmanlike manner and shall conform with any pertinent local, or State law, regulation or code. Good housekeeping consistent with safety shall be maintained.

Payment for mobilization shall be made by two equal payments based upon completion of TEN (10%) and THIRTY (30%) of the work. Each payment will represent FIFTY (50%) of the lump sum bid.

BASIS OF PAYMENT

The amount bid for mobilization shall not exceed FOUR percent (4%) the total contract bid price excluding the bid price for mobilization. Should the bidder exceed the foregoing FOUR percent (4%), the Department will make the necessary adjustments to determine the total amount bid based on the arithmetically correct proposal. The amount bid shall include the furnishing and maintaining of services and facilities noted under Item 234 DESCRIPTION, to the extent and at the time the Contractor deems necessary for his operations, consistent with the requirements of this work and the respective contract.

The amount bid shall be payable to the Contractor whenever he shall have completed TEN percent (10%) and Thirty (30%) of the contract work. For purposes of this item, 10% and 30% of the work shall be considered completed when the total payments earned as reflected by the estimates of the work done, as per payment section of BID DOCUMENTS. Payment of Estimates, not including the amount bid for this work, shall exceed 10% and 30% of the total amount of the Contractor's bid for this contract.

SUBMITTALS

Whenever a material or article is specific or described and/or a particular manufacturer or vendor is mentioned, the specific item/method shall be understood as established. The type of function or quality desired from other products of equivalent function or quality will be accepted. The low Bidder will submit other products to be reviewed and approved by the Engineer in charge prior to award of Project.

Refer to individual Specification Sections for required submittal items/materials.



Kathy Hochul, Governor

Roberta Reardon, Commissioner

City of Rome
Michael Haas
860 Hooper Rd
Endwell NY 13760

Schedule Year 2025 through 2026
Date Requested 04/29/2026
PRC# 2026011998

Location W. Liberty Street & James Stre
Project ID#
Project Type Work includes limited traffic controls, removal of the existing pavements and millings, installation of new granite curbs, concrete sidewalks and asphalt parking pavement and striping in two separate

PREVAILING WAGE SCHEDULE FOR ARTICLE 8 PUBLIC WORK PROJECT

Attached is the current schedule(s) of the prevailing wage rates and prevailing hourly supplements for the project referenced above. A unique Prevailing Rate Case Number (PRC#) has been assigned to the schedule(s) for your project.

The schedule is effective from July 2025 through June 2026. All updates, corrections, posted on the 1st business day of each month, and future copies of the annual determination are available on the Department's website www.labor.ny.gov. Updated PDF copies of your schedule can be accessed by entering your assigned PRC# at the proper location on the website.

It is the responsibility of the contracting agency or its agent to annex and make part, the attached schedule, to the specifications for this project, when it is advertised for bids and /or to forward said schedules to the successful bidder(s), immediately upon receipt, in order to insure the proper payment of wages.

Please refer to the "General Provisions of Laws Covering Workers on Public Work Contracts" provided with this schedule, for the specific details relating to other responsibilities of the Department of Jurisdiction.

Upon completion or cancellation of this project, enter the required information and mail **OR** fax this form to the office shown at the bottom of this notice, **OR** fill out the electronic version via the NYSDOL website.

NOTICE OF COMPLETION / CANCELLATION OF PROJECT

Date Completed: _____ Date Cancelled: _____

Name & Title of Representative: _____

Phone: (518) 457-5589 Fax: (518) 485-1870
W. Averell Harriman State Office Campus, Bldg. 12, Room 130, Albany, NY 12240

General Provisions of Laws Covering Workers on Article 8 Public Work Contracts

Introduction

The Labor Law requires public work contractors and subcontractors to pay laborers, workers, or mechanics employed in the performance of a public work contract not less than the prevailing rate of wage and supplements (fringe benefits) in the locality where the work is performed.

Contractor Registry

Effective December 30, 2024 all contractors and subcontractors submitting bids or performing construction work on public work projects, or private projects covered by Article 8 of the Labor Law, are required to register with the New York State Department of Labor (NYSDOL) under Labor Law Section 220-i. To register, contractors and subcontractors must submit an application through NYSDOL's Contractor Registry portal which is available through the agency's Management System for Protecting Worker Rights (MPWR) <https://mpwr-public.labor.ny.gov/en/login>.

For additional information, please visit [online](#).

Responsibilities of the Department of Jurisdiction

A Department of Jurisdiction (Contracting Agency) includes a state department, agency, board or commission; a county, city, town or village; a school district, board of education or board of cooperative educational services; a sewer, water, fire, improvement and other district corporation; a public benefit corporation; and a public authority awarding a public work contract.

The Department of Jurisdiction (Contracting Agency) awarding a public work contract MUST obtain a Prevailing Rate Schedule listing the hourly rates of wages and supplements due the workers to be employed on a public work project. This schedule may be obtained by completing and forwarding a "Request for wage and Supplement Information" form (PW 39) to the Bureau of Public Work. The Prevailing Rate Schedule MUST be included in the specifications for the contract to be awarded and is deemed part of the public work contract.

Upon the awarding of the contract, the law requires that the Department of Jurisdiction (Contracting Agency) furnish the following information to the Bureau: the name and address of the contractor, the date the contract was let and the approximate dollar value of the contract. To facilitate compliance with this provision of the Labor Law, a copy of the Department's "Notice of Contract Award" form (PW 16) is provided with the original Prevailing Rate Schedule.

The Department of Jurisdiction (Contracting Agency) is required to notify the Bureau of the completion or cancellation of any public work project. The Department's PW 200 form is provided for that purpose.

Both the PW 16 and PW 200 forms are available for completion [online](#).

Hours

No laborer, worker, or mechanic in the employ of a contractor or subcontractor engaged in the performance of any public work project shall be permitted to work more than eight hours in any day or more than five days in any week, except in cases of extraordinary emergency. The contractor and the Department of Jurisdiction (Contracting Agency) may apply to the Bureau of Public Work for a dispensation permitting workers to work additional hours or days per week on a particular public work project.

Wages and Supplements

The wages and supplements to be paid and/or provided to laborers, workers, and mechanics employed on a public work project shall be not less than those listed in the current Prevailing Rate Schedule for the locality where the work is performed. If a prime contractor on a public work project has not been provided with a Prevailing Rate Schedule, the contractor must notify the Department of Jurisdiction (Contracting Agency) who in turn must request an original Prevailing Rate Schedule form the Bureau of Public Work. Requests may be submitted by: mail to NYSDOL, Bureau of Public Work, State Office Bldg. Campus, Bldg. 12, Rm. 130, Albany, NY 12226; Fax to Bureau of Public Work (518) 485-1870; or electronically at the NYSDOL website www.labor.ny.gov.

Upon receiving the original schedule, the Department of Jurisdiction (Contracting Agency) is REQUIRED to provide complete copies to all prime contractors who in turn MUST, by law, provide copies of all applicable county schedules to each subcontractor and obtain from each subcontractor, an affidavit certifying such schedules were received. If the original schedule expired, the contractor may obtain a copy of the new annual determination from the NYSDOL website www.labor.ny.gov.

The Commissioner of Labor makes an annual determination of the prevailing rates. This determination is in effect from July 1st through June 30th of the following year. The annual determination is available on the NYSDOL website

Payrolls and Payroll Records

Every contractor and subcontractor MUST keep original payrolls or transcripts subscribed and affirmed as true under penalty of perjury. As per Article 6 of the Labor law, contractors and subcontractors are required to establish, maintain, and preserve for not less than six (6) years, contemporaneous, true, and accurate payroll records. At a minimum, payrolls must show the following information for each person employed on a public work project: Name, Address, Last 4 Digits of Social Security Number, Classification(s) in which the worker was employed, Hourly wage rate(s) paid, Supplements paid or provided, and Daily and weekly number of hours worked in each classification.

The filing of payrolls to the Department of Jurisdiction is a condition of payment. Every contractor and subcontractor shall submit to the Department of Jurisdiction (Contracting Agency), within thirty (30) days after issuance of its first payroll and every thirty (30) days thereafter, a transcript of the original payrolls, subscribed and affirmed as true under penalty of perjury. The Department of Jurisdiction (Contracting Agency) shall collect, review for facial validity, and maintain such payrolls.

In addition, the Commissioner of Labor may require contractors to furnish, with ten (10) days of a request, payroll records sworn to as their validity and accuracy for public work and private work. Payroll records include, but are not limited to time cards, work description sheets, proof that supplements were provided, cancelled payroll checks and payrolls. Failure to provide the requested information within the allotted ten (10) days will result in the withholding of up to 25% of the contract, not to exceed \$100,000.00. If the contractor or subcontractor does not maintain a place of business in New York State and the amount of the contract exceeds \$25,000.00, payroll records and certifications must be kept on the project worksite.

The prime contractor is responsible for any underpayments of prevailing wages or supplements by any subcontractor.

All contractors or their subcontractors shall provide to their subcontractors a copy of the Prevailing Rate Schedule specified in the public work contract as well as any subsequently issued schedules. A failure to provide these schedules by a contractor or subcontractor is a violation of Article 8, Section 220-a of the Labor Law.

All subcontractors engaged by a public work project contractor or its subcontractor, upon receipt of the original schedule and any subsequently issued schedules, shall provide to such contractor a verified statement attesting that the subcontractor has received the Prevailing Rate Schedule and will pay or provide the applicable rates of wages and supplements specified therein. (See NYS Labor Laws, Article 8 . Section 220-a).

Determination of Prevailing Wage and Supplement Rate Updates Applicable to All Counties

The wages and supplements contained in the annual determination become effective July 1st whether or not the new determination has been received by a given contractor. Care should be taken to review the rates for obvious errors. Any corrections should be brought to the Department's attention immediately. It is the responsibility of the public work contractor to use the proper rates. If there is a question on the proper classification to be used, please call the district office located nearest the project. Any errors in the annual determination will be corrected and posted to the NYS DOL website on the first business day of each month. Contractors are responsible for paying these updated rates as well, retroactive to July 1st.

When you review the schedule for a particular occupation, your attention should be directed to the dates above the column of rates. These are the dates for which a given set of rates is effective. To the extent possible, the Department posts rates in its possession that cover periods of time beyond the July 1st to June 30th time frame covered by a particular annual determination. Rates that extend beyond that instant time period are informational ONLY and may be updated in future annual determinations that actually cover the then appropriate July 1st to June 30th time period.

Withholding of Payments

When a complaint is filed with the Commissioner of Labor alleging the failure of a contractor or subcontractor to pay or provide the prevailing wages or supplements, or when the Commissioner of Labor believes that unpaid wages or supplements may be due, payments on the public work contract shall be withheld from the prime contractor in a sufficient amount to satisfy the alleged unpaid wages and supplements, including interest and civil penalty, pending a final determination.

When the Bureau of Public Work finds that a contractor or subcontractor on a public work project failed to pay or provide the requisite prevailing wages or supplements, the Bureau is authorized by Sections 220-b and 235.2 of the Labor Law to so notify the financial officer of the Department of Jurisdiction (Contracting Agency) that awarded the public work contract. Such officer MUST then withhold or cause to be withheld from any payment due the prime contractor on account of such contract the amount indicated by the Bureau as sufficient to satisfy the unpaid wages and supplements, including interest and any civil penalty that may be assessed by the Commissioner of Labor. The withholding continues until there is a final determination of the underpayment by the Commissioner of Labor or by the court in the event a legal proceeding is instituted for review of the determination of the Commissioner of Labor.

The Department of Jurisdiction (Contracting Agency) shall comply with this order of the Commissioner of Labor or of the court with respect to the release of the funds so withheld.

Summary of Notice Posting Requirements

The current Prevailing Rate Schedule must be posted in a prominent and accessible place on the site of the public work project. The prevailing wage schedule must be encased in, or constructed of, materials capable of withstanding adverse weather conditions and be titled "PREVAILING RATE OF WAGES" in letters no smaller than two (2) inches by two (2) inches.

The "Public Work Project" notice must be posted at the beginning of the performance of every public work contract, on each job site.

Every employer providing workers' compensation insurance and disability benefits must post notices of such coverage in the format prescribed by the Workers' Compensation Board in a conspicuous place on the jobsite.

Every employer subject to the NYS Human Rights Law must conspicuously post at its offices, places of employment, or employment training centers, notices furnished by the State Division of Human Rights.

Employers liable for contributions under the Unemployment Insurance Law must conspicuously post on the jobsite notices furnished by the NYS Department of Labor.

Apprentices

Employees cannot be paid apprentice rates unless they are individually registered in a program registered with the NYS Commissioner of Labor. The allowable ratio of apprentices to journeyworkers in any craft classification can be no greater than the statewide building trade ratios promulgated by the Department of Labor and included with the Prevailing Rate Schedule. An employee listed on a payroll as an apprentice who is not registered as above or is performing work outside the classification of work for which the apprentice is indentured, must be paid the prevailing journeyworker's wage rate for the classification of work the employee is actually performing.

NYSDOL Labor Law, Article 8, Section 220-3, require that only apprentices individually registered with the NYS Department of Labor may be paid apprenticeship rates on a public work project. No other Federal or State Agency of office registers apprentices in New York State.

Persons wishing to verify the apprentice registration of any person must do so in writing by mail, to the NYSDOL Office of Employability Development / Apprenticeship Training, State Office Bldg. Campus, Bldg. 12, Albany, NY 12226 or by Fax to NYSDOL Apprenticeship Training (518) 457-7154. All requests for verification must include the name and social security number of the person for whom the information is requested.

The only conclusive proof of individual apprentice registration is written verification from the NYSDOL Apprenticeship Training Albany Central office. Neither Federal nor State Apprenticeship Training offices outside of Albany can provide conclusive registration information.

It should be noted that the existence of a registered apprenticeship program is not conclusive proof that any person is registered in that program. Furthermore, the existence or possession of wallet cards, identification cards, or copies of state forms is not conclusive proof of the registration of any person as an apprentice.

Interest and Penalties

In the event that an underpayment of wages and/or supplements is found:

- Interest shall be assessed at the rate then in effect as prescribed by the Superintendent of Banks pursuant to section 14-a of the Banking Law, per annum from the date of underpayment to the date restitution is made.
- A Civil Penalty may also be assessed, not to exceed 25% of the total of wages, supplements, and interest due.

Debarment

Any contractor or subcontractor and/or its successor shall be ineligible to submit a bid on or be awarded any public work contract or subcontract with any state, municipal corporation or public body for a period of five (5) years when:

- Two (2) willful determinations have been rendered against that contractor or subcontractor and/or its successor within any consecutive six (6) year period.
- There is any willful determination that involves the falsification of payroll records or the kickback of wages or supplements.

Criminal Sanctions

Willful violations of the Prevailing Wage Law (Article 8 of the Labor Law) may be a felony punishable by fine or imprisonment of up to 15 years, or both.

Discrimination

No employee or applicant for employment may be discriminated against on account of age, race, creed, color, national origin, sex, disability or marital status.

No contractor, subcontractor nor any person acting on its behalf, shall by reason of race, creed, color, disability, sex or national origin discriminate against any citizen of the State of New York who is qualified and available to perform the work to which the employment relates (NYS Labor Law, Article 8, Section 220-e(a)).

No contractor, subcontractor, nor any person acting on its behalf, shall in any manner, discriminate against or intimidate any employee on account of race, creed, color, disability, sex, or national origin (NYS Labor Law, Article 8, Section 220-e(b)).

The Human Rights Law also prohibits discrimination in employment because of age, marital status, or religion.

There may be deducted from the amount payable to the contractor under the contract a penalty of \$50.00 for each calendar day during which such person was discriminated against or intimidated in violation of the provision of the contract (NYS Labor Law, Article 8, Section 220-e(c)).

The contract may be cancelled or terminated by the State or municipality. All monies due or to become due thereunder may be forfeited for a second or any subsequent violation of the terms or conditions of the anti-discrimination sections of the contract (NYS Labor Law, Article 8, Section 220-e(d)).

Every employer subject to the New York State Human Rights Law must conspicuously post at its offices, places of employment, or employment training centers notices furnished by the State Division of Human Rights.

Workers' Compensation

In accordance with Section 142 of the State Finance Law, the contractor shall maintain coverage during the life of the contract for the benefit of such employees as required by the provisions of the New York State Workers' Compensation Law.

A contractor who is awarded a public work contract must provide proof of workers' compensation coverage prior to being allowed to begin work.

The insurance policy must be issued by a company authorized to provide workers' compensation coverage in New York State. Proof of coverage must be on form C-105.2 (Certificate of Workers' Compensation Insurance) and must name this agency as a certificate holder.

If New York State coverage is added to an existing out-of-state policy, it can only be added to a policy from a company authorized to write workers' compensation coverage in this state. The coverage must be listed under item 3A of the information page.

The contractor must maintain proof that subcontractors doing work covered under this contract secured and maintained a workers' compensation policy for all employees working in New York State.

Every employer providing worker's compensation insurance and disability benefits must post notices of such coverage in the format prescribed by the Workers' Compensation Board in a conspicuous place on the jobsite.

Unemployment Insurance

Employers liable for contributions under the Unemployment Insurance Law must conspicuously post on the jobsite notices furnished by the New York State Department of Labor.



Kathy Hochul, Governor

Roberta Reardon, Commissioner

City of Rome

Michael Haas
860 Hooper Rd
Endwell NY 13760

Schedule Year 2025 through 2026
Date Requested 04/29/2026
PRC# 2026011998

Location W. Liberty Street & James Stre

Project ID#

Project Type Work includes limited traffic controls, removal of the existing pavements and millings, installation of new granite curbs, concrete sidewalks and asphalt parking pavement and striping in two separate

Notice of Contract Award

New York State Labor Law, Article 8, Section 220.3a requires that certain information regarding the awarding of public work contracts, be furnished to the Commissioner of Labor. One "Notice of Contract Award" (PW 16, which may be photocopied), **MUST** be completed for **EACH** prime contractor on the above referenced project.

Upon notifying the successful bidder(s) of this contract, enter the required information and mail **OR** fax this form to the office shown at the bottom of this notice, **OR** fill out the electronic version via the NYSDOL website.

Contractor Information

All information must be supplied

Federal Employer Identification Number: _____		
Name: _____		
Address: _____ _____		
City: _____	State: _____	Zip: _____
Amount of Contract: \$ _____	Contract Type:	
Approximate Starting Date: ____/____/____	<input type="checkbox"/> (01) General Construction	
Approximate Completion Date: ____/____/____	<input type="checkbox"/> (02) Heating/Ventilation	
	<input type="checkbox"/> (03) Electrical	
	<input type="checkbox"/> (04) Plumbing	
	<input type="checkbox"/> (05) Other : _____	

Phone: (518) 457-5589 Fax: (518) 485-1870
W. Averell Harriman State Office Campus, Bldg. 12, Room 130, Albany, NY 12226

Social Security Numbers on Certified Payrolls:

The Department of Labor is cognizant of the concerns of the potential for misuse or inadvertent disclosure of social security numbers. Identity theft is a growing problem and we are sympathetic to contractors' concern regarding inclusion of this information on payrolls if another identifier will suffice.

For these reasons, the substitution of the use of the last four digits of the social security number on certified payrolls submitted to contracting agencies on public work projects is now acceptable to the Department of Labor. This change does not affect the Department's ability to request and receive the entire social security number from employers during its public work/ prevailing wage investigations.

Construction Industry Fair Play Act: Required Posting for Labor Law Article 25-B § 861-d

Construction industry employers must post the "Construction Industry Fair Play Act" notice in a prominent and accessible place on the job site. Failure to post the notice can result in penalties of up to \$1,500 for a first offense and up to \$5,000 for a second offense. The posting is included as part of this wage schedule. Additional copies may be obtained from the NYS DOL website, <https://dol.ny.gov/public-work-and-prevailing-wage>

If you have any questions concerning the Fair Play Act, please call the State Labor Department toll-free at 1-866-435-1499 or email us at: dol.misclassified@labor.ny.gov .

Worker Notification: (Labor Law §220, paragraph a of subdivision 3-a)

Effective June 23, 2020

This provision is an addition to the existing wage rate law, Labor Law §220, paragraph a of subdivision 3-a. It requires contractors and subcontractors to provide written notice to all laborers, workers or mechanics of the *prevailing wage and supplement rate* for their particular job classification *on each pay stub**. It also requires contractors and subcontractors to *post a notice* at the beginning of the performance of every public work contract *on each job site* that includes the telephone number and address for the Department of Labor and a statement informing laborers, workers or mechanics of their right to contact the Department of Labor if he/she is not receiving the proper prevailing rate of wages and/or supplements for his/her job classification. The required notification will be provided with each wage schedule, may be downloaded from our website www.labor.ny.gov or be made available upon request by contacting the Bureau of Public Work at 518-457-5589. *In the event the required information will not fit on the pay stub, an accompanying sheet or attachment of the information will suffice.

(12.20)

**To all State Departments, Agency Heads and Public Benefit Corporations
IMPORTANT NOTICE REGARDING PUBLIC WORK ENFORCEMENT FUND**

Budget Policy & Reporting Manual

B-610

Public Work Enforcement Fund

effective date December 7, 2005

1. Purpose and Scope:

This Item describes the Public Work Enforcement Fund (the Fund, PWEF) and its relevance to State agencies and public benefit corporations engaged in construction or reconstruction contracts, maintenance and repair, and announces the recently-enacted increase to the percentage of the dollar value of such contracts that must be deposited into the Fund. This item also describes the roles of the following entities with respect to the Fund:

- New York State Department of Labor (DOL),
- The Office of the State of Comptroller (OSC), and
- State agencies and public benefit corporations.

2. Background and Statutory References:

DOL uses the Fund to enforce the State's Labor Law as it relates to contracts for construction or reconstruction, maintenance and repair, as defined in subdivision two of Section 220 of the Labor Law. State agencies and public benefit corporations participating in such contracts are required to make payments to the Fund.

Chapter 511 of the Laws of 1995 (as amended by Chapter 513 of the Laws of 1997, Chapter 655 of the Laws of 1999, Chapter 376 of the Laws of 2003 and Chapter 407 of the Laws of 2005) established the Fund.

3. Procedures and Agency Responsibilities:

The Fund is supported by transfers and deposits based on the value of contracts for construction and reconstruction, maintenance and repair, as defined in subdivision two of Section 220 of the Labor Law, into which all State agencies and public benefit corporations enter.

Chapter 407 of the Laws of 2005 increased the amount required to be provided to this fund to .10 of one-percent of the total cost of each such contract, to be calculated at the time agencies or public benefit corporations enter into a new contract or if a contract is amended. The provisions of this bill became effective August 2, 2005.

**To all State Departments, Agency Heads and Public Benefit Corporations
IMPORTANT NOTICE REGARDING PUBLIC WORK ENFORCEMENT FUND**

OSC will report to DOL on all construction-related ("D") contracts approved during the month, including contract amendments, and then DOL will bill agencies the appropriate assessment monthly. An agency may then make a determination if any of the billed contracts are exempt and so note on the bill submitted back to DOL. For any instance where an agency is unsure if a contract is or is not exempt, they can call the Bureau of Public Work at the number noted below for a determination. Payment by check or journal voucher is due to DOL within thirty days from the date of the billing. DOL will verify the amounts and forward them to OSC for processing.

For those contracts which are not approved or administered by the Comptroller, monthly reports and payments for deposit into the Public Work Enforcement Fund must be provided to the Administrative Finance Bureau at the DOL within 30 days of the end of each month or on a payment schedule mutually agreed upon with DOL.

Reports should contain the following information:

- Name and billing address of State agency or public benefit corporation;
- State agency or public benefit corporation contact and phone number;
- Name and address of contractor receiving the award;
- Contract number and effective dates;
- Contract amount and PWEF assessment charge (if contract amount has been amended, reflect increase or decrease to original contract and the adjustment in the PWEF charge); and
- Brief description of the work to be performed under each contract.

Checks and Journal Vouchers, payable to the "New York State Department of Labor" should be sent to:

Department of Labor
Administrative Finance Bureau-PWEF Unit
Building 12, Room 464
State Office Campus
Albany, NY 12226

Any questions regarding billing should be directed to NYSDOL's Administrative Finance Bureau-PWEF Unit at (518) 457-3624 and any questions regarding Public Work Contracts should be directed to the Bureau of Public Work at (518) 457-5589.

Required Notice under Article 25-B of the Labor Law

**Attention All Employees, Contractors and Subcontractors:
You are Covered by the Construction Industry Fair Play Act**

The law says that you are an employee unless:

- You are free from direction and control in performing your job, **and**
- You perform work that is not part of the usual work done by the business that hired you, **and**
- You have an independently established business.

Your employer cannot consider you to be an independent contractor unless all three of these facts apply to your work.

It is against the law for an employer to misclassify employees as independent contractors or pay employees off the books.

Employee Rights: If you are an employee, you are entitled to state and federal worker protections. These include:

- Unemployment Insurance benefits, if you are unemployed through no fault of your own, able to work, and otherwise qualified,
- Workers' compensation benefits for on-the-job injuries,
- Payment for wages earned, minimum wage, and overtime (under certain conditions),
- Prevailing wages on public work projects,
- The provisions of the National Labor Relations Act, and
- A safe work environment.

It is a violation of this law for employers to retaliate against anyone who asserts their rights under the law. Retaliation subjects an employer to civil penalties, a private lawsuit or both.

Independent Contractors: If you are an independent contractor, **you must pay all taxes and Unemployment Insurance contributions required by New York State and Federal Law.**

Penalties for paying workers off the books or improperly treating employees as independent contractors:

- **Civil Penalty** First offense: Up to \$2,500 per employee
 Subsequent offense(s): Up to \$5,000 per employee
- **Criminal Penalty** First offense: Misdemeanor - up to 30 days in jail, up to a \$25,000 fine and debarment from performing public work for up to one year.
 Subsequent offense(s): Misdemeanor - up to 60 days in jail or up to a \$50,000 fine and debarment from performing public work for up to 5 years.

If you have questions about your employment status or believe that your employer may have violated your rights and you want to file a complaint, call the Department of Labor at (866) 435-1499 or send an email to dol.misclassified@labor.ny.gov. All complaints of fraud and violations are taken seriously. You can remain anonymous.

Employer Name:

IA 999 (09/16)



Attention Employees

THIS IS A: **PUBLIC WORK PROJECT**

If you are employed on this project as a **worker, laborer, or mechanic** you are entitled to receive the **prevailing wage and supplements rate** for the classification at which you are working.

Your pay stub and wage notice received upon hire must clearly state your wage rate and supplement rate.

Chapter 629 of the Labor Laws of 2007:

These wages are set by law and must be posted at the work site. They can also be found at:
<https://dol.ny.gov/bureau-public-work>



If you feel that you have not received proper wages or benefits, please call our nearest office.*

Albany	(518) 457-2744	Patchogue	(631) 687-4882
Binghamton	(607) 721-8005	Rochester	(585) 258-4505
Buffalo	(716) 847-7159	Syracuse	(315) 428-4056
Garden City	(516) 228-3915	Utica	(315) 793-2314
New York City	(212) 932-2419	White Plains	(914) 997-9507
Newburgh	(845) 568-5287		

* For New York City government agency construction projects, please contact the Office of the NYC Comptroller at (212) 669-4443, or www.comptroller.nyc.gov – click on Bureau of Labor Law.

Contractor Name: _____

Project Location: _____

Requirements for OSHA 10 Compliance

Article 8 §220-h requires that when the advertised specifications, for every contract for public work, is \$250,000.00 or more the contract must contain a provision requiring that every worker employed in the performance of a public work contract shall be certified as having completed an OSHA 10 safety training course. The clear intent of this provision is to require that all employees of public work contractors, required to be paid prevailing rates, receive such training "prior to the performing any work on the project."

The Bureau will enforce the statute as follows:

All contractors and sub contractors must attach a copy of proof of completion of the OSHA 10 course to the first certified payroll submitted to the contracting agency and on each succeeding payroll where any new or additional employee is first listed.

Proof of completion may include but is not limited to:

- Copies of bona fide course completion card (*Note: Completion cards do not have an expiration date.*)
- Training roster, attendance record or other documentation from the certified trainer pending the issuance of the card.
- Other valid proof

**A certification by the employer attesting that all employees have completed such a course is not sufficient proof that the course has been completed.

Any questions regarding this statute may be directed to the New York State Department of Labor, Bureau of Public Work at 518-457-5589.

WICKS

Public work projects are subject to the Wicks Law requiring separate specifications and bidding for the plumbing, heating and electrical work, when the total project's threshold is \$3 million in Bronx, Kings, New York, Queens and, Richmond counties; \$1.5 million in Nassau, Suffolk and Westchester counties; and \$500,000 in all other counties.

For projects below the monetary threshold, bidders must submit a sealed list naming each subcontractor for the plumbing, HVAC and electrical and the amount to be paid to each. The list may not be changed unless the public owner finds a legitimate construction need, including a change in specifications or costs or the use of a Project Labor Agreement (PLA), and must be open to public inspection.

Allows the state and local agencies and authorities to waive the Wicks Law and use a PLA if it will provide the best work at the lowest possible price. If a PLA is used, all contractors shall participate in apprentice training programs in the trades of work it employs that have been approved by the Department of Labor (DOL) for not less than three years. They shall also have at least one graduate in the last three years and use affirmative efforts to retain minority apprentices. PLA's would be exempt from Wicks, but deemed to be public work subject to prevailing wage enforcement.

The Commissioner of Labor shall have the power to enforce separate specification requirements on projects, and may issue stop-bid orders against public owners for non-compliance.

Other new monetary thresholds, and similar sealed bidding for non-Wicks projects, would apply to certain public authorities including municipal housing authorities, NYC Construction Fund, Yonkers Educational Construction Fund, NYC Municipal Water Finance Authority, Buffalo Municipal Water Finance Authority, Westchester County Health Care Association, Nassau County Health Care Corp., Clifton-Fine Health Care Corp., Erie County Medical Center Corp., NYC Solid Waste Management Facilities, and the Dormitory Authority.

Contractors must pay subcontractors within a 7 days period.

(07.19)

Introduction to the Prevailing Rate Schedule

Information About Prevailing Rate Schedule

This information is provided to assist you in the interpretation of particular requirements for each classification of worker contained in the attached Schedule of Prevailing Rates.

Classification

It is the duty of the Commissioner of Labor to make the proper classification of workers taking into account whether the work is heavy and highway, building, sewer and water, tunnel work, or residential, and to make a determination of wages and supplements to be paid or provided. It is the responsibility of the public work contractor to use the proper rate. If there is a question on the proper classification to be used, please call the district office located nearest the project. District office locations and phone numbers are listed below. Prevailing Wage Schedules are issued separately for "General Construction Projects" and "Residential Construction Projects" on a county-by-county basis.

General Construction Rates apply to projects such as: Buildings, Heavy & Highway, and Tunnel and Water & Sewer rates. Residential Construction Rates generally apply to construction, reconstruction, repair, alteration, or demolition of one family, two family, row housing, or rental type units intended for residential use. Some rates listed in the Residential Construction Rate Schedule have a very limited applicability listed along with the rate. Rates for occupations or locations not shown on the residential schedule must be obtained from the General Construction Rate Schedule. Please contact the local Bureau of Public Work office before using Residential Rate Schedules, to ensure that the project meets the required criteria.

*Contractor Registry (LL 220-I): Effective December 30th, 2024

Labor Law Section 220-i(6) prohibits contractors from bidding on public work and prohibits both contractors and subcontractors from commencing work on private and public projects subject to prevailing wage requirements. This section requires contractors to submit their Certificate of Registration with their bid materials. Each Certificate of Registration will have a unique registration number. Failure to provide proof of registration, as required by Labor Law Section 220-i, as a minimum qualification will result in the bidder being deemed non-responsive. There is a public database of registered contractors and subcontractors available online at data.ny.gov to confirm registration validity. For additional information on how to register and the requirements, visit <https://dol.ny.gov/public-work-contractor-and-subcontractor-registry-landing>

*Electronic Certified Payroll (LL 220-J): Effective December 31st, 2025

Effective December 31, 2025, all contractors and subcontractors who perform public work, or covered private work subject to the prevailing wage, will be required to submit certified payrolls electronically to the Bureau of Public Work and Prevailing Wage Enforcement. Additional information about the electronic certified payroll submission system will be made available on the Department's Website at <https://dol.ny.gov/Electronic-Payroll>

Payrolls and Payroll Records

Every contractor and subcontractor MUST keep original payrolls or transcripts subscribed and affirmed as true under penalty of perjury. Payrolls must be maintained for at least three (3) years from the projects date of completion. Additionally, as per Article 6 of the Labor Law, contractors and subcontractors are required to establish, maintain, and preserve for not less than six (6) years, contemporaneous, true, and accurate payroll records.

At a minimum, payrolls must show the following information for each person employed on a public work project: Name; Address, Last 4 Digits of Social Security number, Classification(s) in which the worker was employed, Hourly wage rate(s) paid, Supplements paid or provided, and Daily and weekly number of hours worked in each classification.

Payroll records and transcripts are required to be kept on site during all the time that work under that contract is being performed.

NOTE: For more detailed information regarding Article 9 prevailing wage contracts, please refer to "General Provisions of Laws Covering Workers on Article 9 Public Work Building Service Contracts".

If you have any questions concerning the attached schedule or would like additional information, please write to:

New York State Department of Labor
Bureau of Public Work
State Office Campus, Bldg. 12
Albany, NY 12240

OR

Contact the nearest BUREAU of PUBLIC WORK District Office

District Office Locations:	Telephone #	FAX #
Bureau of Public Work - Albany	518-457-2744	518-485-0240
Bureau of Public Work - Binghamton	607-721-8005	607-721-8004

Bureau of Public Work - Buffalo	716-847-7159	716-847-7650
Bureau of Public Work - Garden City	516-228-3915	516-794-3518
Bureau of Public Work - Newburgh	845-568-5287	845-568-5332
Bureau of Public Work - New York City	212-932-2419	212-775-3579
Bureau of Public Work - Patchogue	631-687-4882	631-687-4902
Bureau of Public Work - Rochester	585-258-4505	585-258-4708
Bureau of Public Work - Syracuse	315-428-4056	315-428-4671
Bureau of Public Work - Utica	315-793-2314	315-793-2514
Bureau of Public Work - White Plains	914-997-9507	914-997-9523
Bureau of Public Work - Central Office	518-457-5589	518-485-1870

Paid Holidays

Paid Holidays are days for which an eligible employee receives a regular day's pay, but is not required to perform work. If an employee works on a day listed as a paid holiday, this remuneration is in addition to payment of the required prevailing rate for the work actually performed.

Overtime

At a minimum, all work performed on a public work project in excess of eight hours in any one day or more than five days in any workweek is overtime. However, the specific overtime requirements for each trade or occupation on a public work project may differ. Specific overtime requirements for each trade or occupation are contained in the prevailing rate schedules.

Overtime holiday pay is the premium pay that is required for work performed on specified holidays. It is only required where the employee actually performs work on such holidays.

The applicable holidays are listed under HOLIDAYS: OVERTIME. The required rate of pay for these covered holidays can be found in the OVERTIME PAY section listings for each classification.

Supplemental Benefits

Particular attention should be given to the supplemental benefit requirements. Although in most cases the payment or provision of supplements is straight time for all hours worked, some classifications require the payment or provision of supplements, or a portion of the supplements, to be paid or provided at a premium rate for premium hours worked. Supplements may also be required to be paid or provided on paid holidays, regardless of whether the day is worked. The Overtime Codes and Notes listed on the particular wage classification will indicate these conditions as required.

Effective Dates

When you review the schedule for a particular occupation, your attention should be directed to the dates above the column of rates. These are the dates for which a given set of rates is effective. The rate listed is valid until the next effective rate change or until the new annual determination which takes effect on July 1 of each year.

All contractors and subcontractors are required to pay the current prevailing rates of wages and supplements. If you have any questions please contact the Bureau of Public Work or visit the New York State Department of Labor website (www.labor.ny.gov) for current wage rate information.

Shift Work

If the timeline of the contract requires shift work be performed to meet deadlines, the BPWE will enforce the shift work rate as the required rate on the project whether or not shift work is specifically addressed in the contract.

Paid Prenatal Leave

Every employer shall be required to provide to its employees twenty hours of paid prenatal personal leave during any fifty-two week calendar period. Paid prenatal personal leave shall mean leave taken for the health care services received by an employee during their pregnancy or related to such pregnancy, including physical examinations, medical procedures, monitoring and testing, and discussions with a healthcare provider related to the pregnancy. Paid prenatal personal leave may be taken in hourly increments. Benefits for paid prenatal personal leave shall be paid in hourly installments. Employees shall receive compensation at the employee's regular rate of pay, or the applicable minimum wage established by the labor law, whichever is greater, for the use of Paid Prenatal leave.

Apprentice Training Ratios

The following are the allowable ratios of registered Apprentices to Journey-workers.

For example, the ratio 1:1,1:3 indicates the allowable initial ratio is one Apprentice to one Journeyworker. The Journeyworker must be in place on the project before an Apprentice is allowed. Then three additional Journeyworkers are needed before a second Apprentice is allowed. The last ratio repeats indefinitely. Therefore, three more Journeyworkers must be present before a third Apprentice can be hired, and so on.

Please call Apprentice Training Central Office at (518) 457-6820 if you have any questions.

Title (Trade)	Ratio
Boilermaker (Construction)	1:1,1:4
Boilermaker (Shop)	1:1,1:3
Carpenter (Bldg.,H&H, Pile Driver/Dockbuilder)	1:1,1:4
Carpenter (Residential)	1:1,1:3
Electrical (Outside) Lineman	1:1,1:2
Electrician (Inside)	1:1,1:3
Elevator/Escalator Construction & Modernizer	1:1,1:2
Glazier	1:1,1:3
Insulation & Asbestos Worker	1:1,1:3
Iron Worker	1:1,1:4
Laborer	1:1,1:3
Mason	1:1,1:4
Millwright	1:1,1:4
Op Engineer	1:1,1:5
Painter	1:1,1:3
Plumber & Steamfitter	1:1,1:3
Roofer	1:1,1:2
Sheet Metal Worker	1:1,1:3
Sprinkler Fitter	1:1,1:2

If you have any questions concerning the attached schedule or would like additional information, please contact the nearest BUREAU of PUBLIC WORK District Office or write to:

New York State Department of Labor
Bureau of Public Work
State Office Campus, Bldg. 12
Albany, NY 12226

District Office Locations:	Telephone #	FAX #
Bureau of Public Work - Albany	518-457-2744	518-485-0240
Bureau of Public Work - Binghamton	607-721-8005	607-721-8004
Bureau of Public Work - Buffalo	716-847-7159	716-847-7650
Bureau of Public Work - Garden City	516-228-3915	516-794-3518
Bureau of Public Work - Newburgh	845-568-5287	845-568-5332
Bureau of Public Work - New York City	212-932-2419	212-775-3579
Bureau of Public Work - Patchogue	631-687-4882	631-687-4902
Bureau of Public Work - Rochester	585-258-4505	585-258-4708
Bureau of Public Work - Syracuse	315-428-4056	315-428-4671
Bureau of Public Work - Utica	315-793-2314	315-793-2514
Bureau of Public Work - White Plains	914-997-9507	914-997-9523
Bureau of Public Work - Central Office	518-457-5589	518-485-1870

Oneida County General Construction

Boilermaker **05/01/2026**

JOB DESCRIPTION Boilermaker

DISTRICT 7

ENTIRE COUNTIES

Cayuga, Clinton, Cortland, Franklin, Jefferson, Lewis, Madison, Oneida, Onondaga, Oswego, Seneca, St. Lawrence, Tompkins

WAGES

Per hour:	07/01/2025	01/01/2026	01/01/2027 Additional \$ 2.50*
Boilermaker	\$ 40.50	\$ 42.50	

* To be allocated at a later date.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker	\$ 26.60* + 1.49	\$ 27.10* + 1.49
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*This portion of the benefits subject to the same premium rate as shown for overtime wages.

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
 Overtime: See (5, 6, 15, 25) on HOLIDAY PAGE

NOTE: When a holiday falls on Sunday, the day observed by the State or Nation shall be observed. When a holiday falls on Saturday, Friday will be observed as the holiday.

REGISTERED APPRENTICES

WAGES per hour: Six (6) month terms at the following percentage of Journeyworker's wage.

1st	2nd	3rd	4th	5th	6th	7th	8th
65%	65%	70%	75%	80%	85%	90%	95%

SUPPLEMENTAL BENEFITS per hour:

07/01/2025

\$ 19.76*	\$ 19.76*	\$ 20.74*	\$ 21.71*	\$ 22.67*	\$ 23.66*	\$ 24.66*	\$ 25.62*
+ 1.49	+ 1.49	+ 1.49	+ 1.49	+ 1.49	+ 1.49	+ 1.49	+ 1.49

01/01/2026

\$ 20.09*	\$ 20.09*	\$ 21.09*	\$ 22.08*	\$ 23.07*	\$ 24.09*	\$ 25.11*	\$ 26.10*
+ 1.49	+ 1.49	+ 1.49	+ 1.49	+ 1.49	+ 1.49	+ 1.49	+ 1.49

*This portion of the benefits subject to the same premium rate as shown for overtime wages.

7-175

Broadband **05/01/2026**

JOB DESCRIPTION Broadband

DISTRICT 4

ENTIRE COUNTIES

Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orleans, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

PARTIAL COUNTIES

Orange: Only in the Village of Greenwood Lake, Village of Highland Falls, Town of Tuxedo, and Town of Patterson

WAGES

NOTE: Applies to all public work and covered private projects, including those receiving ConnectAll funding subject to New York State Labor Law §224-E, solicited on or after July 1,2025. For all other projects solicited prior to July 1,2025 please see LINEMAN ELECTRICIAN-TELEDATA

Per Hour:	07/01/2025	08/04/2025
Field Tech Install/Repair	\$ 51.31	\$ 52.85

For outside work (excluding installation on building construction/alteration/renovation projects), stopping at first point of attachment (demarcation), installing/maintaining/repairing broadband internet service.

"Broadband", "Broadband Service", or "Broadband Internet" means mass-market retail service by wire or radio that provides the capability to transmit data to and receive data from all or substantially all internet endpoints, including any capabilities that are incidental to and enable the operation of the communications service, but excluding dial-up internet access service.

Note: EXCLUDES work within ten (10) feet of High Voltage (600 Volts and over) transmission lines for this work, please see LINEMAN

SUPPLEMENTAL BENEFITS

Per Hour: \$ 23.24

OVERTIME PAY

See (B, K, *R) on OVERTIME PAGE

* Two and one half times the hourly rate after the 8th hour

HOLIDAY

Paid: See (5, 6, 7, 11, 12) on HOLIDAY PAGE

Overtime: See (5, 6, 7, 11, 12) on HOLIDAY PAGE

4-CWA-Dist2

Carpenter - Building

05/01/2026

JOB DESCRIPTION Carpenter - Building

DISTRICT 6

ENTIRE COUNTIES

Cayuga, Herkimer, Madison, Oneida, Seneca, Yates

WAGES

Per hour:	07/01/2025	01/01/2026	07/01/2026 Additional	07/01/2027 Additional
Carpenter	\$ 32.64	\$ 33.14	\$ 5.00*	\$ 4.25*
Floor Coverer	32.64	33.14	5.00*	4.25*
Carpet Layer	32.64	33.14	5.00*	4.25*
Drywall	32.64	33.14	5.00*	4.25*
Diver - Wet Day	57.64	58.14	5.00*	4.25*
Diver - Dry Day	33.64	34.14	5.00*	4.25*
Dive Tender	33.64	34.14	5.00*	4.25*

* To be allocated at a later date.

NOTE ADDITIONAL AMOUNTS PAID FOR THE FOLLOWING WORK LISTED BELOW (per hour worked):

- Pile Drivers & Dock Builders shall receive \$ 0.25 per hour over the Journeyworker's rate of pay when performing piledriving & dock building work.
- Certified Welders shall receive \$ 3.00 per hour over the Journeyworker's rate of pay when the employee is required to be certified and performs DOT or ABS specified welding work.
- When an employee performs work within a contaminated area on a State and/or Federally designated hazardous waste site, and where relevant State and/or Federal regulations require employees to be furnished and use or wear required forms of personal protection, then the employee shall receive his regular hourly rate plus \$ 1.50 per hour.
- Depth pay for Divers based upon deepest depth on the day of the dive (per diem payment):
 - 0' to 80' no additional fee
 - 81' to 100' additional \$ 0.50 per foot
 - 101' to 150' additional \$ 0.75 per foot
 - 151' and deeper additional \$ 1.25 per foot
- Penetration pay for Divers based upon deepest penetration on the day of the dive (per diem payment):
 - 0' to 50' no additional fee
 - 51' to 100' additional \$ 0.75 per foot
 - 101' and deeper additional \$ 1.00 per foot
- Diver rates apply to all hours worked on dive day.

SHIFT WORK

On Agency/Owner mandated shift work, the following rates will be applicable:

- 1st Shift - Regular Rate
- 2nd Shift - Premium of 10% of base wage per hour
- 3rd Shift - Premium of 15% of base wage per hour

Shift work shall be defined as implementing at least two (2) shifts in a twenty-four (24) consecutive hour period. Shift work must be for a minimum of three (3) consecutive days.

SUPPLEMENTAL BENEFITS

Per hour:

	07/01/2025	01/01/2026
Journeyworker	\$ 22.20	\$ 22.20

OVERTIME PAY

See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
 Overtime: See (5, 6) on HOLIDAY PAGE

NOTE: Any holiday which occurs on Sunday shall be observed the following Monday. If Christmas falls on a Saturday, it shall be observed on the prior Friday.

REGISTERED APPRENTICES

Wages per hour (1300 hour terms at the following percentage of Journeyworker's base wage):

1st	2nd	3rd	4th
65%	70%	75%	80%

Supplemental Benefits per hour:

\$ 13.11	\$ 13.11	\$ 15.71	\$ 15.72
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NOTE ADDITIONAL AMOUNTS PAID TO APPRENTICES FOR THE FOLLOWING WORK LISTED BELOW (per hour worked):

- Pile Driving & Dock Builder apprentices shall receive an additional \$ 0.25 per hour worked when performing piledriving & dock building work.
- Certified Welders shall receive \$ 3.00 per hour over the apprentice's rate of pay when the apprentice is required to be certified and performs DOT or ABS specified welding work.
- When an apprentice performs work within a contaminated area on a State and/or Federally designated hazardous waste site, and where relevant State and/or Federal regulations require the apprentice to be furnished and use or wear required forms of personal protection, then the apprentice shall receive his regular hourly rate plus \$ 1.50 per hour.

6-277B-Cay

Carpenter - Building / Heavy&Highway

05/01/2026

JOB DESCRIPTION Carpenter - Building / Heavy&Highway

DISTRICT 2

ENTIRE COUNTIES

Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orleans, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

PARTIAL COUNTIES

Orange: The area lying on Northern side of Orange County demarcated by a line drawn from the Bear Mountain Bridge continuing west to the Bear Mountain Circle, continue North on 9W to the town of Cornwall where County Road 107 (also known as Quaker Rd) crosses under 9W, then east on County Road 107 to Route 32, then north on Route 32 to Orrs Mills Rd, then west on Orrs Mills Rd to Route 94, continue west and south on Route 94 to the Town of Chester, to the intersection of Kings Highway, continue south on Kings Highway to Bellvale Rd, west on Bellvale Rd to Bellvale Lakes Rd, then south on Bellvale Lakes Rd to Kain Rd, southeast on Kain Rd to Route 17A, then north and southeast along Route 17A to Route 210, then follow Route 210 to NJ Border.

WAGES

Wages per hour:	07/01/2025	07/01/2026	07/01/2027
		Additional	Additional
Carpenter - ONLY for Artificial Turf/Synthetic Sport Surface	\$ 37.94	\$ 2.25*	\$ 2.25*

* To be allocated at a later date.

Note - Does not include the operation of equipment. Please see Operating Engineers rates.

SUPPLEMENTAL BENEFITS

Per hour worked:

Journeyworker	\$ 27.34
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OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (5) on HOLIDAY PAGE
 Overtime: See (5, 6, 16) on HOLIDAY PAGE

Notes:

When a holiday falls upon a Saturday, it shall be observed on the preceding Friday. When a holiday falls upon a Sunday, it shall be observed on the following Monday.

An employee taking an unexcused day off the regularly scheduled day before or after a paid Holiday shall not receive Holiday pay.

REGISTERED APPRENTICES

Wages per hour (1300 hour terms at the following percentage of Journeyworker's wage):

1st	2nd	3rd	4th
65%	70%	75%	80%

Supplemental Benefits per hour worked:

\$19.10	\$19.69	\$21.83	\$22.42
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2-42AtSS

Carpenter - Heavy&Highway

05/01/2026

JOB DESCRIPTION Carpenter - Heavy&Highway

DISTRICT 2

ENTIRE COUNTIES

Chenango, Herkimer, Madison, Oneida, Otsego

WAGES

Per hour	07/01/2025	07/01/2026 Additional	07/01/2027 Additional
Carpenter	\$ 44.52	\$ 3.00*	\$ 3.24*
Piledriver	44.52	3.00*	3.24*
Dockbuilder	44.52	3.00*	3.24*
Diver-Wet Day	69.52	3.00*	3.24*
Diver-Dry Day	45.52	3.00*	3.24*
Diver-Tender	45.52	3.00*	3.24*

*To be allocated at a later date.

NOTE ADDITIONAL AMOUNTS PAID FOR THE FOLLOWING WORK LISTED BELOW (per hour worked):

- State or Federal designated hazardous site, requiring protective gear shall be an additional \$2.50 per hour.
- Certified welders when required to perform welding work will receive an additional \$5.00 per hour.

ADDITIONAL NOTES PERTAINING TO DIVERS/TENDERS:

- Divers and Tenders shall receive one and one half (1 1/2) times their regular diver and tender rate of pay for Effluent and Slurry diving.
- Divers and tenders being paid at the specified rate for Effluent and Slurry diving shall have all overtime rates based on the specified rate plus the appropriate overtime rates (one and one half or two times the specified rate for Slurry and Effluent divers and tenders).
- The pilot of an ADS or submersible will receive one and one-half (1 1/2) times the Diver-Wet Day Rate for time submerged.
- All crew members aboard a submersible shall receive the Diver-Wet Day rate.
- Depth pay for Divers based upon deepest depth on the day of the dive (per diem payment):
 - 0' to 50' no additional fee
 - 51' to 100' additional \$0.50 per foot
 - 101' to 150' additional \$0.75 per foot
 - 151' to 200' additional \$1.25 per foot
 - 201' and deeper additional \$1.50 per foot
- Penetration pay for Divers based upon deepest penetration on the day of the dive (per diem payment):
 - 0' to 50' no additional fee
 - 51' to 100' additional \$0.75 per foot
 - 101' to 200' additional \$1.00 per foot
 - Over 201' additional \$1.25 per foot
- Diver rates applies to all hours worked on dive day.

SHIFT WORK

When project owner mandates a single irregular work shift, the Journeyworkers and Apprentices will receive an additional \$4.00 per hour. A single irregular work shift can start any time from 5:00 p.m. to 1:00 a.m.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker	\$ 27.31
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OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 6) on HOLIDAY PAGE
 Overtime: See (5, 6) on HOLIDAY PAGE

- In the event a Holiday falls on a Saturday, the Friday before will be observed as a Holiday. If a Holiday falls on a Sunday, then Monday will be observed as a Holiday.
- The employee must work their scheduled workday before and their scheduled workday after the holiday to receive holiday pay.

REGISTERED APPRENTICES

CARPENTER/PILEDRIIVER/DOCKBUILDER APPRENTICES

Wages per hour (1300 hour terms at the following percentage of journeyworker's base wage):

1st 65%	2nd 70%	3rd 75%	4th 80%
Supplemental Benefits per hour: \$ 19.07	\$ 19.66	\$ 21.75	\$ 22.34

NOTE ADDITIONAL AMOUNTS PAID PER HOUR WORKED TO APPRENTICES FOR SPECIFIC TYPES OF WORK PERFORMED:

- State or Federal designated hazardous site, requiring protective gear shall be an additional \$2.50 per hour.
- Certified welders when required to perform welding work will receive an additional \$5.00 per hour.

2-277HH-CHMOO

Electrician **05/01/2026**

JOB DESCRIPTION Electrician

DISTRICT 6

ENTIRE COUNTIES

Cortland, Herkimer, Madison, Oneida, Oswego

PARTIAL COUNTIES

Cayuga: Townships of Ira, Locke, Sempronius, Sterling, Summerhill and Victory.

Chenango: Only the Townships of Columbus, New Berlin and Sherburne.

Onondaga: Entire County except Townships of Elbridge and Skaneateles.

Otsego: Only the Townships of Plainfield, Richfield, Springfield, Cherry Valley, Roseboom, Middlefield, Otsego, Exeter, Edmeston, Burlington, Pittsfield and New Lisbon.

Tompkins: Only the Township of Groton.

Wayne: Only the Townships of Huron, Wolcott, Rose and Butler.

WAGES

Per hour:	07/01/2025	06/01/2026 Additional
Electrician	\$ 50.50	\$ 5.25*
Teledata	50.50	5.25*
Cable Splicer	55.55	5.25*

* To be allocated at a later date.

NOTE: Additional amounts, subject to overtime premiums, due for the following work (applicable to all employees):

- Additional \$2.50 per hour for work performed over 35 feet above the ground, floor, or roof levels or where work is required in tunnels, shafts, or under compressed air 35 feet below the ground level.
- Additional \$3.00 per hour for working over 50 feet above or below ground, floor, or roof level. This includes work on ladders, "toothpicks", scaffolds, boatswain chairs, towers, smokestacks or other open structures, or mechanical lifts used over 60 feet.

Occupied Conditions: When necessary to perform alteration and/or renovation work and owner mandates (due to occupied conditions) prevent the work from being performed during "normal" working hours (defined as between 6:00 a.m. and 4:30 p.m. Monday through Friday), alternate hours may be worked, provided: 1) The hours are established for a minimum of five (5) days duration or the length of the job, whichever is shorter; and 2) An entire work scope within a job-site area is performed utilizing the varied hours. If these conditions are satisfied, all hours worked Monday through Friday of a shift that starts before or ends after the "normal" hours, shall be paid at the appropriate rate plus fifteen percent (15%). However, the following restrictions shall apply:

- 1) "Alternate" hours shall consist of a minimum of eight (8) consecutive hours per day.
- 2) Hours worked in excess of eight (8) hours per day, Monday through Friday, shall be paid at a rate of one and one-half times the applicable rate (dayshift + 15%).
- 3) Hours worked on Saturday shall be paid at time and one-half the applicable rate.
- 4) Hours worked on Sundays and Holidays shall be paid at double the straight time rate.
- 5) Work of a new construction nature may not be worked under these conditions.

SHIFT WORK

THE FOLLOWING RATES WILL APPLY ON ALL CONTRACTING AGENCY MANDATED MULTIPLE SHIFTS OF EIGHT (8) HOURS FOR AT LEAST FIVE (5) DAYS DURATION WHICH MAY HAVE BEEN WORKED. WHEN TWO (2) SHIFTS OR THREE (3) SHIFTS ARE WORKED:

1ST SHIFT	8:00AM - 4:30PM:	Regular wage rate
2ND SHIFT	4:30 PM - 1:00 AM:	Regular wage rate plus 15%
3RD SHIFT	12:30 AM - 9:00 AM:	Regular wage rate plus 25%

SUPPLEMENTAL BENEFITS

Per hour:	\$ 33.52 plus
Journeyworker	3% of hourly wage paid*

*NOTE: The 3% is based on the hourly wage paid, straight time or premium rate.

OVERTIME PAY

See (B, *E, Q) on OVERTIME PAGE

* NOTE: On Saturday the first 8 hours worked shall be paid at a rate of one and one-half times the applicable rate. All additional hours are payable at double the straight time rate.

WAGE CAP - Double the straight time hourly base wage shall be the maximum hourly wage compensation for any hour worked. Contractor is still responsible to pay the hourly benefit amount for each hour worked.

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
 Overtime: See (5, 6, 15, 26) on HOLIDAY PAGE

NOTE: If any of the above holidays fall on Saturday, Friday shall be observed as the holiday. If any of the above holidays fall on Sunday, Monday shall be observed as the holiday.

REGISTERED APPRENTICES

WAGES per hour: Hourly terms at the following wage.

1st period (0-1000 hrs)	\$ 20.20
2nd period (1001-2000)	22.75
3rd period (2001-3500)	25.25
4th period (3501-5000)	30.30
5th period (5001-6500)	35.35
6th Period (6501-8000)	40.40

SUPPLEMENTAL BENEFITS per hour:

1st period	\$ 14.69*
2nd period	14.69*
3rd period	30.02*
4th period	30.72*
5th period	31.42*
6th period	32.12*

* PLUS 3% OF HOURLY WAGE PAID, STRAIGHT TIME RATE OR PREMIUM RATE.

6-43

Elevator Constructor

05/01/2026

JOB DESCRIPTION Elevator Constructor

DISTRICT 6

ENTIRE COUNTIES

Broome, Cayuga, Chenango, Cortland, Franklin, Jefferson, Lewis, Onondaga, Oswego, St. Lawrence, Tioga, Tompkins

PARTIAL COUNTIES

Delaware: Only the towns of: Tompkins, Walton, Masonville, Sidney, Franklin and Deposit.

Madison: Only the towns of: Cazenovia, DeRuyter, Eaton, Fenner, Georgetown, Lebanon, Lenox, Nelson and Sullivan.

Oneida: Only the towns of: Camden, Florence and Vienna.

WAGES

Per hour:	07/01/2025	01/01/2026	01/01/2027
Mechanic	\$ 58.44	\$ 60.99	\$ 63.719
Helper	40.91	42.69	44.60

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker	\$ 38.435*	\$ 38.985*	39.535*
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*NOTE - add 6% of regular hourly rate for all hours worked. Add 8% of regular hourly rate if more than 5 years of service.

OVERTIME PAY

See (D, O) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 6, 15, 16) on HOLIDAY PAGE
 Overtime: See (5, 6, 15, 16) on HOLIDAY PAGE

NOTE: When a holiday falls on a Saturday, it shall be observed on Friday. When a holiday falls on Sunday, it shall be observed on Monday.

REGISTERED APPRENTICES

WAGES per hour: 1 year terms at the following percentage of the Elevator Constructor wage.

0-6	6-12	2nd	3rd	4th
months	months	year	year	year
50%	55%	65%	70%	80%

SUPPLEMENTAL BENEFITS per hour:

0-6 months: 6% of the hourly apprentice rate paid, no additional supplemental benefits.

All other terms: Same as Journeyworker

6-62.1

Elevator Constructor

05/01/2026

JOB DESCRIPTION Elevator Constructor

DISTRICT 1

ENTIRE COUNTIES

Albany, Clinton, Essex, Fulton, Hamilton, Herkimer, Montgomery, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Warren, Washington

PARTIAL COUNTIES

Madison: Madison Only the towns of: Brookfield, Hamilton, Lincoln, Madison, Smithfield, Stockbridge and the City of Oneida
 Oneida: Entire county except the towns of: Camden, Florence, and Vienna.

WAGES

Per hour	07/01/2025	01/01/2026
Mechanic	\$ 57.73	\$ 60.26
Helper	70% of Mechanic Wage Rate	70% of Mechanic Wage Rate

SUPPLEMENTAL BENEFITS

Per hour	07/01/2025	01/01/2026
Journeyworker/Helper	\$ 38.435*	\$ 38.985*

(*)Plus 6% of hourly rate, if less than 5 years of service. Plus 8% of hourly rate, if more than 5 years of service.

OVERTIME PAY

See (D, O) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 6, 15, 16) on HOLIDAY PAGE
 Overtime: See (5, 6, 15, 16) on HOLIDAY PAGE

Note: When a paid holiday falls on Saturday, it shall be observed on Friday. When a paid holiday falls on Sunday, it shall be observed on Monday.

REGISTERED APPRENTICES

Wages per hour:				
0-6 mo*	6-12 mo	2nd yr	3rd yr	4th yr
50%	55 %	65 %	70 %	80 %

(*)Plus 6% of the hourly rate, no additional supplemental benefits.

Supplemental Benefits - per hour worked:

Same as Journeyperson/Helper

1-35

Glazier

05/01/2026

JOB DESCRIPTION Glazier

DISTRICT 5

ENTIRE COUNTIES

Cayuga, Cortland, Herkimer, Madison, Oneida, Onondaga, Oswego

WAGES

Per Hour:	07/01/2025
Glazier	\$ 30.00

SUPPLEMENTAL BENEFITS

Per hour:	
Journeyman	\$ 28.74

OVERTIME PAY

See (B,E,E2*,Q) on OVERTIME PAGE.

*Note - Or circumstances beyond the control of the employer.

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES

1000 hour terms:

Appr. 1st term	\$ 20.00
Appr. 2nd term	21.00
Appr. 3rd term	22.00
Appr. 4th term	23.00
Appr. 5th term	24.00
Appr. 6th term	25.00
Appr. 7th term	26.00
Appr. 8th term	27.00

Supplemental Benefits per hour:

Appr. 1st term	\$ 12.92
Appr. 2nd term	12.92
Appr. 3rd term	18.92
Appr. 4th term	18.92
Appr. 5th term	19.92
Appr. 6th term	19.92
Appr. 7th term	20.92
Appr. 8th term	20.92

5-677.Z-2

Insulator - Heat & Frost

05/01/2026

JOB DESCRIPTION Insulator - Heat & Frost

DISTRICT 7

ENTIRE COUNTIES

Broome, Cayuga, Chemung, Chenango, Cortland, Herkimer, Jefferson, Lewis, Madison, Oneida, Onondaga, Oswego, Otsego, Schuyler, Seneca, St. Lawrence, Tioga, Tompkins

WAGES

Per hour: 07/01/2025

Asbestos Installer	\$ 43.25
Insulation Installer	43.25
(On mechanical systems only)	

SHIFT WORK

The following rates will apply on all contracting agency-mandated shifts worked:

1st Shift	\$ 43.25
2nd Shift	49.74
3rd Shift	51.90

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker	\$ 27.34
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OVERTIME PAY

See (*B1, **K, P) on OVERTIME PAGE

*NOTE: First 10 hours on Saturday.

**NOTE: Holidays that fall on Sunday are subject to double time.

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
Overtime: See (2*,4,6,28) on HOLIDAY PAGE
*Triple time for Labor Day if worked.

REGISTERED APPRENTICES

WAGES per hour: One (1) year terms at the following percentage of Journeyworker's wage.

1st	2nd	3rd	4th
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PARTIAL COUNTIES

Fulton: Only the Townships of Stratford, Oppenheim, Caroga and Ephratah
Montgomery: Only the Townships of Minden, St. Johnsville, Canajoharie, Palatine and Root

WAGES

- GROUP #1: Basic
- GROUP #2: Pipe Layer, Mortar Mixer, Walk behind Mortar Buggie and Power Lift
- GROUP #3: Wagon Drill(Where separate air compressor unit supplies power.)
- GROUP #4: Blaster, Formsetter, Riding Mortar Buggy
- GROUP #5: Hazardous Waste Removal
- GROUP #6: Asbestos and Lead Removal

WAGES per hour:	07/01/2025
Building Laborer:	
Group # 1	\$ 35.64
Group # 2	35.64
Group # 3	36.14
Group # 4	36.14
Group # 5	36.99
Group # 6	36.99

SHIFT WORK

Second shift work will be paid at the base wage plus 10% Third shift work will be paid at the base wage plus 15%

SUPPLEMENTAL BENEFITS

Per hour:	07/01/2025
All groups	\$ 26.91

OVERTIME PAY

See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wages per hour
1000 Hour terms at the following percentage of Journeyperson's basic hourly wage.

1st	2nd	3rd	4th
65 %	75 %	85 %	95 %

Supplemental Benefits per hour worked

	07/01/2025
Apprentices	\$ 26.91

1-190z2B

Laborer - Heavy&Highway

05/01/2026

JOB DESCRIPTION Laborer - Heavy&Highway

DISTRICT 1

ENTIRE COUNTIES

Hamilton, Herkimer, Madison, Oneida

PARTIAL COUNTIES

Fulton: Only Townships of Stratford, Oppenheim, Caroga and Ephratah
Montgomery: Only Townships of Minden, St. Johnsville, Canajoharie, Palatine and Root.

WAGES

GROUP # A: Basic, Drill Helper, Flagman, Outboard and Hand Boats.

GROUP # B: Bull Float, Chain Saw, Concrete Aggregate Bin, Concrete Bootmen, Gin Buggy, Hand or Machine Vibrator, Jack Hammer, Mason Tender, Mortar Mixer, Pavement Breaker, Handlers of all SteelMash, Small Generators for Laborers Tools, Installation of Bridge Drainage Pipe, Pipe Layers, Vibrator Type Rollers, Tamper, Drill Doctor, Tail or Screw Operator on Asphalt Paver, Water Pump Operators(1-1/2" and Single Diaphragm), Nozzle (Asphalt, Gunite, Seeding, and Sand Blasting), Laborers on Chain Link Fence Erection, Rock Splitter and Power Unit, Pusher Type Concrete Saw and all other Gas, Electric, Oil and Air Tool Operators, Wrecking Laborer.

GROUP # C: Rock or Drilling Machine Operators (only where a separate air compressor unit supplies power), Acetylene Torch Operators, Asphalt Raker and Powderman.

GROUP # D: Blasters, Form Setters (prefab curb radius), Stone or Granite Curb Setters.

GROUP # E: Employees performing hazardous waste removal, lead abatement and removal, or asbestos abatement and removal on a State and/or Federally designated waste site & where relevant State or Federal regulations require employees to use or wear forms of personal protection.

Per hour: 07/01/2025

Heavy/Highway Laborer:

GROUP # A	\$ 42.65
GROUP # B	42.85
GROUP # C	43.05
GROUP # D	43.05
GROUP # E	45.35

SHIFT WORK

All employees who work a single irregular workday that starts from 5:00 pm to 1:00 am on a governmental mandated night shift shall be paid an additional 15% of base wage per hour.

SUPPLEMENTAL BENEFITS

Per hour: \$ 29.69

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 6) on HOLIDAY PAGE
 Overtime: See (5, 6) on HOLIDAY PAGE

Note: If the holiday falls on Sunday, it will be celebrated on Monday. If the Monday Holiday is worked it will be paid at double time plus the Holiday pay. If the Holiday falls on a Saturday employer can choose to celebrate Saturday or give Friday off with pay. If the Saturday Holiday is worked it will be paid at double time plus the Holiday pay

REGISTERED APPRENTICES

Wages per hour

1000 hour terms at the following percentage of Journeyman's wage

1st	2nd	3rd	4th
65%	75%	85%	95%

SUPPLEMENTAL BENEFITS per hour worked

Apprentices \$ 28.69

1-190z2H/H

Laborer - Tunnel

05/01/2026

JOB DESCRIPTION Laborer - Tunnel

DISTRICT 1

ENTIRE COUNTIES

Albany, Fulton, Hamilton, Herkimer, Madison, Montgomery, Oneida, Rensselaer, Saratoga, Schenectady, Schoharie, Washington

WAGES

Class 1: All support laborers/sandhogs working above the shaft or tunnel. All laborers/sandhogs working inside a 350 foot radius from the center of a shaft/portal performing site work.

Class 2: All laborers/sandhogs working in the shaft or tunnel

Class 4: Safety Miners

Class 5: Site work related to Shaft/Tunnel working outside a 350 foot radius from the center of a shaft/portal unless required to enter the shaft, access manhole or tunnel.

Per Hour

07/01/2025

Class 1	\$ 48.75
Class 2	50.75
Class 4	53.00
Class 5	45.00

Toxic and hazardous waste, lead abatement and asbestos abatement work will be paid an additional \$ 3.00 an hour.

SHIFT WORK

On all government mandated irregular shift work: 1.5 x the base rate Monday - Friday, Saturday is paid at 1.65 x the base rate, Sunday is paid at 2.15 x the base rate

SUPPLEMENTAL BENEFITS

Per hour

Journeyworker \$ 30.50

OVERTIME PAY

See (B, E, Q, V) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 6, 15, 25) on HOLIDAY PAGE

Overtime: See (5, 6, 15, 16, 25) on HOLIDAY PAGE

Note: When a holiday falls on Sunday, the following Monday shall be considered a holiday and all work performed on either day shall be at the double time rate. When a holiday falls on Saturday, the preceding Friday shall be considered a holiday and all work performed on either day shall be at the double time rate.

REGISTERED APPRENTICES

FOR APPRENTICE RATES, refer to the appropriate Laborer Heavy & Highway wage rate contained in the wage schedule for the County and Location where the work is to be performed.

1-190/157T

Lineman Electrician

05/01/2026

JOB DESCRIPTION Lineman Electrician

DISTRICT 6

ENTIRE COUNTIES

Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

WAGES

A Lineman/Technician shall perform all overhead aerial work. A Lineman/Technician on the ground will install all electrical panels, connect all grounds, install and connect all electrical conductors, assembly of all electrical materials, conduit, pipe, or raceway; placing of fish wire; pulling of cables, wires or fiber optic cable through such raceways; splicing of conductors; dismantling of such structures, lines or equipment.

Crane Operators: Operation of any type of crane on line projects.

Crawler Backhoe: Operation of tracked excavator/crawler backhoe with 1/2 yard bucket or larger on line projects.

Digging Machine Operator: All other digging equipment and augering on line projects.

A Groundman/Truck Driver shall: Build and set concrete forms, handle steel mesh, set footer cages, transport concrete in a wheelbarrow, hand or machine concrete vibrator, finish concrete footers, mix mortar, grout pole bases, cover and maintain footers while curing in cold weather, operate jack hammer, operate hand pavement breaker, tamper, concrete and other motorized saws, as a drill helper, operate and maintain generators, water pumps, chainsaws, sand blasting, operate mulching and seeding machine, air tools, electric tools, gas tools, load and unload materials, hand shovel and/or broom, prepare and pour mastic and other fillers, assist digger operator/equipment operator in ground excavation and restoration, landscape work and painting. Only when assisting a lineman technician, a groundman/truck driver may assist in installing conduit, pipe, cables and equipment.

NOTE: Includes Teledata Work within ten (10) feet of High Voltage Transmission Lines. Also includes digging of holes for poles, anchors, footer, and foundations for electrical equipment.

-----Below rates applicable on all overhead and underground distribution and maintenance work, and all overhead and underground transmission line work and the installation of fiber optic cable where no other construction trades are or have been involved. Includes access matting for line work.

Per hour:	07/01/2025	05/04/2026	05/03/2027	05/01/2028
Group A:				
Lineman, Technician	\$ 61.56	\$ 64.37	\$ 66.84	\$ 69.47
Crane, Crawler Backhoe	61.56	64.37	66.84	69.47
Welder, Cable Splicer	61.56	64.37	66.84	69.47
Group B:				
Digging Mach. Operator	\$ 55.40	\$ 57.93	\$ 60.16	\$ 62.52
Group C:				
Tractor Trailer Driver	\$ 52.33	\$ 54.71	\$ 56.81	\$ 59.05
Groundman, Truck Driver	49.25	51.50	53.47	55.58
Equipment Mechanic	49.25	51.50	53.47	55.58
Group D:				
Flagger	\$ 33.86	\$ 35.40	\$ 36.76	\$ 38.21

Additional 3% per hour above regular rate for entire crew when a helicopter is used. This will increase to 5% on May 03, 2027.

-----Below rates applicable on all electrical sub-stations, switching structures, fiber optic cable and all other work not defined as "Utility outside electrical work." Includes access matting for line work.

Group A:				
Lineman, Technician	\$ 61.56	\$ 64.37	\$ 66.84	\$ 69.47
Crane, Crawler Backhoe	61.56	64.37	66.84	69.47
Cable Splicer	67.72	70.81	73.52	76.42
Certified Welder, Pipe Type Cable	\$ 64.64	\$ 67.59	\$ 70.18	\$ 72.94
Group B:				
Digging Mach. Operator	\$ 55.40	\$ 57.93	\$ 60.16	\$ 62.52
Group C:				
Tractor Trailer Driver	\$ 52.33	\$ 54.71	\$ 56.81	\$ 59.05
Groundman, Truck Driver	49.25	51.50	53.47	55.58
Equipment Mechanic	49.25	51.50	53.47	55.58
Group D:				
Flagger	\$ 33.86	\$ 35.40	\$ 36.76	\$ 38.12

Additional 3% per hour above regular rate for entire crew when a helicopter is used. This will increase to 5% on May 03, 2027.

-----Below rates applicable on all railroad catenary installation and maintenance, third rail installation, bonding of rails and pipe type cable and installation of fiber optic cable. Includes access matting for line work.

Group A:				
Lineman, Tech, Welder	\$ 62.94	\$ 65.81	\$ 68.34	\$ 71.03
Crane, Crawler Backhoe	62.94	65.81	68.34	71.03
Cable Splicer	69.23	72.39	75.17	78.13
Certified Welder, Pipe Type Cable	66.09	69.10	71.76	74.58
Group B:				
Digging Mach. Operator	\$ 56.65	\$ 59.23	\$ 61.51	\$ 63.93
Group C:				
Tractor Trailer Driver	\$ 53.50	\$ 55.94	\$ 58.09	\$ 60.38
Groundman, Truck Driver	50.35	52.65	54.67	56.82
Equipment Mechanic	50.35	52.65	54.67	56.82
Group D:				
Flagger	\$ 34.62	\$ 36.20	\$ 37.59	\$ 39.07

Additional 3% per hour above regular rate for entire crew when a helicopter is used. This will increase to 5% on May 03, 2027.

-----Below rates applicable on all overhead and underground transmission line work & fiber optic cable where other construction trades are or have been involved. This applies to transmission line work only, not other construction. Includes access matting for line work.

Group A:				
Lineman, Tech, Welder	\$ 64.18	\$ 67.10	\$ 69.68	\$ 72.43
Crane, Crawler Backhoe	64.18	67.10	69.68	72.43
Group B:				
Digging Mach. Operator	\$ 57.76	\$ 60.39	\$ 62.71	\$ 65.19
Group C:				
Tractor Trailer Driver	\$ 54.55	\$ 57.04	\$ 59.23	\$ 61.57
Groundman, Truck Driver	51.34	53.68	55.74	57.94
Equipment Mechanic	51.34	53.68	55.74	57.94
Group D:				
Flagger	\$ 35.30	\$ 36.91	\$ 38.32	\$ 39.84

Additional 3% per hour above regular rate for entire crew when a helicopter is used. This will increase to 5% on May 03, 2027.

SHIFT WORK

THE FOLLOWING RATES WILL APPLY ON ALL CONTRACTING AGENCY MANDATED MULTIPLE SHIFTS OF AT LEAST FIVE (5) DAYS DURATION WORKED BETWEEN THE HOURS LISTED BELOW:

1ST SHIFT	8:00 AM to 4:30 PM REGULAR RATE
2ND SHIFT	4:30 PM to 1:00 AM REGULAR RATE PLUS 17.3 %
3RD SHIFT	12:30 AM to 9:00 AM REGULAR RATE PLUS 31.4 %

SUPPLEMENTAL BENEFITS

Per hour:

	07/01/2025	05/04/2026	05/03/2027	05/01/2028
Group A	\$ 31.90*	\$ 32.90*	\$ 34.40*	\$ 35.90*
Group B	\$ 27.90*	\$ 28.90*	\$ 30.40*	\$ 31.90*
Group C	\$ 27.70*	\$ 28.50*	\$ 29.70*	\$ 30.90*
Group D	\$ 27.65*	\$ 28.40*	\$ 29.53*	\$ 30.66*

*Plus 7 % of the hourly wage paid. The 7% is based on straight time or premium time.

OVERTIME PAY

See (B, E, Q, X) on OVERTIME PAGE. NOTE: Double time for all emergency work designated by the Dept. of Jurisdiction.

WAGE CAP - Double the straight time hourly base wage shall be the maximum hourly wage compensation for any hour worked. Contractor is still responsible to pay the hourly benefit amount for each hour worked.

HOLIDAY

Paid See (5, 6, 8, 15, 25) on HOLIDAY PAGE

Overtime See (5, 6, 8, 15, 25) on HOLIDAY PAGE

NOTE: All paid holidays falling on Saturday shall be observed on the preceding Friday. All paid holidays falling on Sunday shall be observed on the following Monday. Supplements for holidays paid at straight time.

REGISTERED APPRENTICES

WAGES per hour: 1000 hour terms at the following percentage of the applicable Journeyworker's Lineman wage.

1st	2nd	3rd	4th	5th	6th	7th
60%	65%	70%	75%	80%	85%	90%

SUPPLEMENTAL BENEFITS per hour:

	07/01/2025	05/04/2026	05/03/2027	05/01/2028
All terms:	\$ 27.65*	\$ 28.40*	\$ 29.53*	\$ 30.66*

*Plus 7% of the hourly wage paid. The 7% is based on straight time or premium time.

6-1249a

Lineman Electrician - Teledata

05/01/2026

JOB DESCRIPTION Lineman Electrician - Teledata

DISTRICT 6

ENTIRE COUNTIES

Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Westchester, Wyoming, Yates

WAGES

NOTE: Applies to all public work and covered private projects, including those receiving ConnectAll funding subject to LL 224-E, solicited prior to July 1, 2025. For all projects, excluding dial-up internet access service, solicited on or after July 1, 2025, please see BROADBAND

Per hour:

07/01/2025

Cable Splicer	\$ 40.81
Installer, Repairman	\$ 38.73
Teledata Lineman	\$ 38.73
Tech., Equip. Operator	\$ 38.73
Groundman/Flagger	\$ 20.53

For outside work, stopping at first point of attachment (demarcation).

NOTE: EXCLUDES Teledata work within ten (10) feet of High Voltage (600 volts and over) transmission lines. For this work, please see LINEMAN.

SHIFT WORK

THE FOLLOWING RATES APPLY WHEN THE CONTRACTING AGENCY MANDATES MULTIPLE SHIFTS OF AT LEAST FIVE (5) DAYS DURATION ARE WORKED. WHEN TWO (2) OR THREE (3) SHIFTS ARE WORKED THE FOLLOWING RATES APPLY:

1ST SHIFT	REGULAR RATE
2ND SHIFT	REGULAR RATE PLUS 10%
3RD SHIFT	REGULAR RATE PLUS 15%

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker	\$ 5.77
	*plus 3% of the hour wage paid

*The 3% is based on the hourly wage paid, straight time rate or premium rate.

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

WAGE CAP - Double the straight time hourly base wage shall be the maximum hourly wage compensation for any hour worked. Contractor is still responsible to pay the hourly benefit amount for each hour worked.

HOLIDAY

Paid:	See (1) on HOLIDAY PAGE
Overtime:	See (5, 6, 16) on HOLIDAY PAGE

6-1249LT - Teledata

Lineman Electrician - Traffic Signal, Lighting **05/01/2026**

JOB DESCRIPTION Lineman Electrician - Traffic Signal, Lighting **DISTRICT 6**

ENTIRE COUNTIES

Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Cortland, Delaware, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orleans, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Warren, Washington, Wayne, Wyoming, Yates

WAGES

Lineman/Technician shall perform all overhead aerial work. A Lineman/Technician on the ground will install all electrical panels, connect all grounds, install and connect all electrical conductors which includes, but is not limited to road loop wires; conduit and plastic or other type pipes that carry conductors, flex cables and connectors, and to oversee the encasement or burial of such conduits or pipes.

Crane Operators: Operation of any type of crane on Traffic Signal/Lighting projects.

Crawler Backhoe: Operation of tracked excavator/crawler backhoe with 1/2 yard bucket or larger on Traffic Signal/Lighting projects.

Digging Machine Operator: All other digging equipment and augering on Traffic Signal/Lighting projects.

A Groundman/Truck Driver shall: Build and set concrete forms, handle steel mesh, set footer cages, transport concrete in a wheelbarrow, hand or machine concrete vibrator, finish concrete footers, mix mortar, grout pole bases, cover and maintain footers while curing in cold weather, operate jack hammer, operate hand pavement breaker, tamper, concrete and other motorized saws, as a drill helper, operate and maintain generators, water pumps, chainsaws, sand blasting, operate mulching and seeding machine, air tools, electric tools, gas tools, load and unload materials, hand shovel and/or broom, prepare and pour mastic and other fillers, assist digger operator/equipment operator in ground excavation and restoration, landscape work and painting. Only when assisting a lineman technician, a groundman/truck driver may assist in installing conduit, pipe, cables and equipment.

A flagger's duties shall consist of traffic control only.

Per hour:	07/01/2025	05/04/2026	05/03/2027	05/01/2028
Group A:				
Lineman, Technician	\$ 52.86	\$ 55.31	\$ 57.40	\$ 59.64
Crane, Crawler Backhoe	52.86	55.31	57.40	59.64
Certified Welder	55.50	58.08	60.27	62.62
Group B:				
Digging Machine	\$ 47.57	\$ 49.78	\$ 51.66	\$ 53.68
Group C:				
Tractor Trailer Driver	\$ 44.93	\$ 47.01	\$ 48.79	\$ 50.69

Groundman, Truck Driver	42.29	44.25	45.92	47.71
Equipment Mechanic	42.29	44.25	45.92	47.71
Group D:				
Flagger	\$ 31.72	\$ 33.19	\$ 34.44	\$ 35.78

Above rates are applicable for installation, testing, operation, maintenance and repair on all Traffic Control (Signal) and Illumination (Lighting) projects, Traffic Monitoring Systems, and Road Weather Information Systems. Includes digging of holes for poles, anchors, footer foundations for electrical equipment; assembly of all electrical materials or raceway; placing of fish wire; pulling of cables, wires or fiber optic cable through such raceways; splicing of conductors; dismantling of such structures, lines or equipment.

SHIFT WORK

THE FOLLOWING RATES WILL APPLY ON ALL CONTRACTING AGENCY MANDATED MULTIPLE SHIFTS OF AT LEAST FIVE (5) DAYS DURATION WORKED BETWEEN THE HOURS LISTED BELOW:

1ST SHIFT	8:00 AM TO 4:30 PM	REGULAR RATE
2ND SHIFT	4:30 PM TO 1:00 AM	REGULAR RATE PLUS 17.3%
3RD SHIFT	12:30 AM TO 9:00 AM	REGULAR RATE PLUS 31.4%

SUPPLEMENTAL BENEFITS

Per hour worked:

	07/01/2025	05/04/2026	05/03/2027	05/01/2028
Group A	\$ 31.90*	\$ 32.90*	\$ 34.40*	\$ 35.90*
Group B	\$ 27.90*	\$ 28.90*	\$ 30.40*	\$ 31.90*
Group C	\$ 27.70*	\$ 28.50*	\$ 29.70*	\$ 30.90*
Group D	\$ 27.65*	\$ 28.40*	\$ 29.53*	\$ 30.66*

* Plus 7% of the hourly wage paid. The 7% is based on straight time or premium time.

OVERTIME PAY

See (B, E, Q, X) on OVERTIME PAGE. NOTE: Double time for all emergency work designated by the Dept. of Jurisdiction.

WAGE CAP - Double the straight time hourly base wage shall be the maximum hourly wage compensation for any hour worked. Contractor is still responsible to pay the hourly benefit amount for each hour worked.

HOLIDAY

Paid: See (5, 6, 8, 15, 25) on HOLIDAY PAGE

Overtime: See (5, 6, 8, 15, 25) on HOLIDAY PAGE

NOTE: All paid holidays falling on Saturday shall be observed on the preceding Friday. All paid holidays falling on Sunday shall be observed on the following Monday. Supplements for holidays paid at straight time.

REGISTERED APPRENTICES

WAGES per hour: 1000 hour terms at the following percentage of the applicable Journeyworker's Lineman wage.

1st	2nd	3rd	4th	5th	6th	7th
60%	65%	70%	75%	80%	85%	90%

SUPPLEMENTAL BENEFITS per hour:

	07/01/2025	05/04/2026	05/03/2027	05/01/2028
All terms:	\$ 27.65*	\$ 28.40*	\$ 29.53*	\$ 30.66*

* Plus 7% of the hourly wage paid. The 7% is based on straight time or premium time.

6-1249a-LT

Lineman Electrician - Tree Trimmer

05/01/2026

JOB DESCRIPTION Lineman Electrician - Tree Trimmer

DISTRICT 6

ENTIRE COUNTIES

Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

WAGES

Applies to line clearance, tree work and right-of-way preparation on all new or existing energized overhead or underground electrical, telephone and CATV lines. This also includes stump removal near underground energized electrical lines including telephone and CATV lines.

Per hour:	07/01/2025	01/01/2026	01/04/2026	01/03/2027
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Tree Trimmer	\$ 33.18	\$ 33.18	\$ 34.67	\$ 36.23
Equipment Operator	29.35	29.35	30.67	32.05
Equipment Mechanic	29.35	29.35	30.67	32.05
Truck Driver	23.85	23.85	24.93	26.05
Groundman	19.64	19.64	20.53	21.45
Flagger	15.50	16.00	16.20	16.93

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker	\$ 10.98*	\$ 10.98*	\$ 11.23*	\$ 11.48*
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* Plus 4.5% of the hourly wage paid. The 4.5% is based on straight time rate or premium rate.

OVERTIME PAY

See (B, E, Q, X) on OVERTIME PAGE

WAGE CAP - Double the straight time hourly base wage shall be the maximum hourly wage compensation for any hour worked. Contractor is still responsible to pay the hourly benefit amount for each hour worked.

HOLIDAY

Paid: See (5, 6, 8, 15, 16, 25) on HOLIDAY PAGE

Overtime: See (5, 6, 8, 15, 16, 25) on HOLIDAY PAGE

NOTE: All paid holidays falling on a Saturday shall be observed on the preceding Friday. All paid holidays falling on a Sunday shall be observed on the following Monday.

6-1249TT

Mason - Building

05/01/2026

JOB DESCRIPTION Mason - Building

DISTRICT 12

ENTIRE COUNTIES

Herkimer, Jefferson, Lewis, Oneida, St. Lawrence

PARTIAL COUNTIES

Madison: Entire County except the Townships of Sullivan & Cazenovia

WAGES

Per hour 07/01/2025

Tile/Marble/Terrazzo

Setter	\$ 37.10
Finisher	29.52

SUPPLEMENTAL BENEFITS

Per hour worked

Journeyman Setters	\$ 20.31
Journeyman Finishers	19.54

OVERTIME PAY

See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wages per hour

Hour terms at the following percentage of journeyman's wage

Setter:	
1st term 500 hours	60%
2nd term 1000 hours	70%
3rd term 1000 hours	80%
4th term 1000 hours	85%
5th term 1000 hours	90%
6th term 1500 hours	95%

Finisher:	
1st term 500 HOURS	70%
2ND term 1000 HOURS	80%

3RD term 1000 HOURS	90%
4TH term 1200 HOURS	95%

Supplemental Benefits per hour worked

Setter:

1st & 2nd Term	\$ 12.66
3rd & 4th Term	16.49
5th Term	18.40
6th Term	20.31

Finishers:

1st & 2nd Term	\$ 11.95
All others	15.74

12-2TS.2

Mason - Building

05/01/2026

JOB DESCRIPTION Mason - Building

DISTRICT 12

ENTIRE COUNTIES

Herkimer, Oneida

PARTIAL COUNTIES

Lewis: The townships of Lewis, Leyden, Osceola, Turin and West Turin
 Madison: Entire County except the Townships of Sullivan and Cazenovia

WAGES

Per hour 07/01/2025

Bricklayer/Blocker	\$ 39.99
Cement Mason(Bldg)	39.99
Plasterer/Fireproofing*	39.99
Stone Mason	39.99
Concrete Cutter	39.99
Pointer/Caulker/Cleaner	39.99

Additional \$.25 per hr. for work in restricted radiation area of atomic plant.

Additional \$5.00 per day more for employees working on a two-point suspension scaffold (Pointer, Caulker, and Cleaner are excluded).

(*Fireproofing on Structural only.

SUPPLEMENTAL BENEFITS

Per hour worked

Journeyman	\$ 22.13
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OVERTIME PAY

See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
 Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wages per hour

750 hour terms at the following percentage of Journey's wage

1st	2nd	3rd	4th	5th	6th	7th	8th
60%	60%	65%	70%	75%	80%	85%	90%

Supplemental Benefits per hour worked:

All Terms	\$ 22.13
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12-2b.2

Mason - Heavy&Highway

05/01/2026

JOB DESCRIPTION Mason - Heavy&Highway

DISTRICT 12

ENTIRE COUNTIES

Albany, Cayuga, Clinton, Columbia, Essex, Franklin, Fulton, Greene, Hamilton, Herkimer, Jefferson, Lewis, Madison, Montgomery, Oneida, Oswego, Rensselaer, Saratoga, Schenectady, Schoharie, St. Lawrence, Warren, Washington

PARTIAL COUNTIES

Onondaga: For Heavy & Highway Cement Mason or Plaster Work in Onondaga County, refer to Mason-Heavy&Highway tag 12-2h/h on.

WAGES

Per hour

07/01/2025

Mason &
 Bricklayer

\$ 43.01

Additional \$1.00 per hour for work on any swing scaffold or staging suspended by means of ropes or cables.

SUPPLEMENTAL BENEFITS

Per hour worked

Journeyman

\$ 22.93

OVERTIME PAY

See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
 Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wages per hour

750 HR TERMS at the following percent of Journeyman's wage

1st	2nd	3rd	4th	5th	6th	7th	8th
60%	60%	65%	70%	75%	80%	85%	90%

Supplemental Benefits per hour worked

0 to 500 Hours	\$ 14.13
All Other	22.93

12-2hh.1

Millwright

05/01/2026

JOB DESCRIPTION Millwright

DISTRICT 6

ENTIRE COUNTIES

Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orleans, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

WAGES

THE FOLLOWING RATE APPLIES TO ANY GAS/STEAM TURBINE AND OR RELATED COMPONENT WORK, INCLUDING NEW INSTALLATIONS OR MAINTENANCE AND ANY/ALL WORK PERFORMED WITHIN THE PROPERTY LIMITS OF A NUCLEAR FACILITY.

Per hour: 07/01/2025

Millwright - \$ 47.00
 Power Generation

NOTE: ADDITIONAL PREMIUMS PAID FOR THE FOLLOWING WORK LISTED BELOW (amount subject to any overtime premiums):

- Certified Welders shall receive an additional \$1.75 per hour provided they are directed to perform Certified Welding.
- If a work site has been declared a hazardous site by the Owner and the use of protective gear (including, as a minimum, air purifying canister-type chemical respirators) is required, then that employee shall receive an additional \$1.50 per hour.
- An employee performing the work of a machinist shall receive an additional \$2.00 per hour. For the purposes of this premium to apply, a "machinist" is a person who uses a lathe, Bridgeport, milling machine or similar type of tool to make or modify parts.
- When performing work underground at 500 feet and below, the employee shall receive an additional \$1.00 per hour.

SUPPLEMENTAL BENEFITS

Per hour paid:

Journeyworker \$ 28.45*

*NOTE: Subject to OT premium

OVERTIME PAY

See (B, E, E2, Q, V) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

NOTE: Any holiday that falls on Sunday shall be observed the following Monday. Any holiday that falls on Saturday shall be observed the preceding Friday.

REGISTERED APPRENTICES

WAGES per hour: One year terms at the following percentage of Journeyworker's wage:

Appr. 1st year	65%*
Appr. 2nd year	75%*
Appr. 3rd year	80%*
Appr. 4th year	90%*

*NOTE: Additional premium for the following work listed below:

Certified Welder	\$ 1.75
Hazardous Waste Work	1.50
Machinist	2.00
Underground (500' and below)	1.00

SUPPLEMENTAL BENEFITS per hour:

Appr. 1st year	\$ 11.95
Appr. 2nd year	23.50
Appr. 3rd year	25.15
Appr. 4th year	26.80

6-1163Power

Millwright

05/01/2026

JOB DESCRIPTION Millwright

DISTRICT 2

ENTIRE COUNTIES

Clinton, Essex, Franklin, Hamilton, Jefferson, Lewis, Oneida, Onondaga, Oswego, St. Lawrence, Warren, Washington

WAGES

Per hour: 07/01/2025

Building	\$ 38.41
Heavy & Highway	41.91

NOTE ADDITIONAL PREMIUMS PAID FOR THE FOLLOWING WORK LISTED BELOW (amount subject to any overtime premiums):

- Certified Welders shall receive \$1.75 per hour in addition to the current Millwrights rate provided he/she is directed to perform certified welding.
- For Building work if a work site has been declared a hazardous site by the Owner and the use of protective gear (including, as a minimum, air purifying canister-type chemical respirators) are required, then that employee shall receive a \$1.50 premium per hour for Building work.
- For Heavy & Highway work if the work is performed at a State or Federally designated hazardous waste site where employees are required to wear protective gear, the employees performing the work shall receive an additional \$2.00 per hour over the millwright heavy and highway wage rate for all hours worked on the day protective gear was worn.
- An employee performing the work of a machinist shall receive \$2.00 per hour in addition to the current Millwrights rate. For the purposes of this premium to apply, a "machinist" is a person who uses a lathe, Bridgeport, milling machine or similar type of tool to make or modify parts.
- When performing work underground at 500 feet and below, the employee shall receive an additional \$1.00.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker	\$ 27.50
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OVERTIME PAY

See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

Note: Any holiday that falls on Sunday shall be observed the following Monday. Any holiday that falls on Saturday shall be observed the preceding Friday.

REGISTERED APPRENTICES

Wages per hour:

(1)year terms at the following percentage of Journeyworker's rate.

1st	2nd	3rd	4th
65%	75%	80%	90%

NOTE ADDITIONAL PREMIUMS PAID FOR THE FOLLOWING WORK LISTED BELOW (amount subject to any overtime premiums):

- Certified Welders shall receive \$1.75 per hour in addition to the current Millwrights rate provided he/she is directed to perform certified welding.
- For Building work if a work site has been declared a hazardous site by the Owner and the use of protective gear (including, as a minimum, air purifying canister-type chemical respirators) are required, then that employee shall receive a \$1.50 premium per hour for Building work.
- For Heavy & Highway work if the work is performed at a State or Federally designated hazardous waste site where employees are required to wear protective gear, the employees performing the work shall receive an additional \$2.00 per hour over the millwright heavy and highway wage rate for all hours worked on the day protective gear was worn.
- An employee performing the work of a machinist shall receive \$2.00 per hour in addition to the current Millwrights rate. For the purposes of this premium to apply, a "machinist" is a person who uses a lathe, Bridgeport, milling machine or similar type of tool to make or modify parts.
- When performing work underground at 500 feet and below, the employee shall receive an additional \$1.00.

SUPPLEMENTAL BENEFITS Benefits per hour:

Apprentices:

1st term	\$ 11.95
2nd term	22.84
3rd term	24.39
4th term	25.95

2-1163.2

Operating Engineer - Building

05/01/2026

JOB DESCRIPTION Operating Engineer - Building

DISTRICT 6

ENTIRE COUNTIES

Cayuga, Cortland, Jefferson, Lewis, Madison, Oneida, Onondaga, Oswego, Seneca, St. Lawrence, Tompkins

WAGES

NOTE:

- If a prime contract is let for site work only, meaning no buildings are involved in their site contract, the Heavy/Highway rates would be applicable. When a prime contract is let for site work and building excavation is part of that contract, the Building rates would be applicable for the Operators classification.
- In the event that equipment listed below is operated by robotic control, the classification covering the operation will be the same as if manually operated.
- If a second employee is required by the employer for operation of any covered machine, they shall be an Engineer Class C.

CLASS A1*: All Cranes (A1 Includes Boom Trucks over 5 tons, Cableway, Cherry Picker, Derrick, Dragline, Dredge, Overhead Crane, Pile Driver, Tower Crane**, Truck Crane, Whirlies).

CLASS A: Air Plako, Asphalt & Blacktop Roller, Automated Concrete Spreader (CMI or equivalent), Automated Fine Grade Machine (CMI), Backhoe, Barrel Shredder, Belt Placer, Blacktop Spreader (such as Barber-Greene & Blaw Knox), Blacktop Plant (automated), Blast or Rotary Drill (Truck or Cat mounted), Boom Trucks (5 ton and under), Burning Plant Operator, Caisson Auger, Central Mix Plant (automated), Concrete Pump, Crusher (Rock), De-watering Press, Diesel Power Unit, Dirt Filter Press with Operation Equipment, Dredge, Dual Drum Paver, Elevating Grader (self-propelled or towed), Elevator Hoist - Two Cage, Excavator - all purpose hydraulically operated, Forklift (Loed/Lull and other rough terrain type), Front End Loader (4 c.y. and over), Gradall, Grader (Power), Head Tower (Saurman or equal), Hoist (2 or 3 Drum), Hydroblaster (Laser Pump), Light Plants - Compressors and Generators, Locomotive, Maintenance Engineer, Maintenance Welder, Mine Hoist, Mucking Machine or Mole, Quarry Master or Equivalent, Refrigeration Equipment (for soil stabilization), Scraper, Sea Mule, Shovel, Side Boom, Slip Form Paver, Straddle Buggy (Ross Carrier, Lumber Carrier), Tractor Drawn Belt Type Loader (Euclid Loader), Trenching Machine (digging capacity of over 4ft. depth), Truck or Trailer Mounted Log Chipper (self-feeder), Tug Operator (Manned, rented equipment excluded), Tunnel Shovel, Vibro or Sonic Hammer Controls (when not mounted in proximity to Rig Operator), Work Boat Operator including LCM's.

CLASS B: "A" Frame Truck, Back Dumps, Blacktop Plant (non-automatic), Boring Machine, Bulldozer, Cage-Hoist, Central Mix Plant (non-automated), Compressor, Pump, Generator or Welding machine (when used in battery of not more than five (5)), Concrete Paver (single drum over 16'), Core boring machine, Drill Rigs - tractor mounted, Elevator - as material hoist, Farm Tractor (with or without accessories), Forklift (over 10 ton with or without attachments), Front End Loader (under 4 c.y.), Grout Pump, Gunite Machine, High Pressure Boiler (15 lbs. & over), Hoist (one drum), Hydraulic Breaking Hammer (Drop Hammer), Kolman Plant Loader (screening gravel), Maintenance Grease Man, Mixer for stabilized base - self-propelled (Seaman Mixer), Monorail Machine, Parapet Concrete or Pavement Grinder, Parts Man, Post Driver (truck or tractor mounted), Post Hole Digger (truck or tractor mounted), Power Sweeper (Wayne or similar), Pump-Crete or Squeeze-Crete, Road Widener (front end of Grader or self-propelled), Roller, Self-contained hydraulic bench drill, Shell Winder (motorized), Skid steer (Bobcat type loader), Snorkel (overhead arms), Snowblower control man, Tractor (with or without accessories), Trenching Machine (digging capacity of 4 ft. or less), Tugger Hoist, Vacuum Machine (self-propelled or mounted), Vibro Tamp, Well Drill / Well Point System (Submersible pumps when used in lieu of Well Point System), Winch (Motor driven), Winch Cat, Winch Truck.

CLASS C: Compressor (up to 500 cfm), Concrete Paver or Mixer (under 16'), Concrete Pavement Spreaders & Finishers (not automated), Conveyor (over 12 ft), Electric Submersible Pump (4" and over), Fine Grade Machine (not automated), Fireman, Forklift ("with or without" attachments, 10 ton and under), Form Tamper, Generator (2,500 watts and over), Hydraulic Pump, Mechanical Heaters (More than two (2) Mechanical Heaters or any Mechanical Heater or Heaters whose combined output exceeds 640,000 BTU per hour (manufacturer's rating) plus one self-contained heating unit - i.e. Sundog or Air Heat type - New Holland Hay Dryer type excluded), Mulching Machine, Oiler, Power Driven Welding Machine (300 amp and over, other than all electric. One Welding Machine under 300 amp will not require an engineer unless in a battery), Power Heaterman (hay dryer), Pumps (water and trash), Revinus Widener (road widener), Single Light Plant, Steam Cleaner or Jenny.

Per hour: 07/01/2025

Building	
Class A1*	\$ 49.61
Class A	48.11
Class B	45.99
Class C	41.77

Additional \$2.50 per hour if work requires Personal Protective Equipment for hazardous waste site activities with a level C or over rating.

(*) TONNAGE PREMIUMS:

All cranes up to 64 ton capacity - A1 rate
All cranes 65 ton to 110 ton capacity - A1 rate plus \$ 1.50
All cranes 111 ton to 199 ton capacity - A1 rate plus \$ 2.00
All cranes 200 ton to 399 ton capacity - A1 rate plus \$ 3.00
All cranes 400 ton to 599 ton capacity - A1 rate plus \$ 4.00
All cranes 600 ton to 799 ton capacity - A1 rate plus \$ 5.00
All cranes 800 ton to 999 ton capacity - A1 rate plus \$ 6.00
All cranes 1000 ton capacity and over - A1 rate plus \$ 7.00

(**) Tower Cranes - A1 rate plus \$2.50 (no tonnage premiums apply)

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker \$ 32.12

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 6) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

NOTE: If the holiday falls on Sunday, it will be celebrated on Monday.

REGISTERED APPRENTICES

WAGES per hour: One thousand hour terms at the following percentage of Journeyworker's CLASS A wage:

1st: 60%
2nd: 65%
3rd: 70%
4th: 80%

Additional \$2.50 per hour if work requires Personal Protective Equipment for hazardous waste site activities with a level C or over rating.

SUPPLEMENTAL BENEFITS per hour:

07/01/2025

All terms: \$ 32.05

6-158-545b.s

Operating Engineer - Heavy&Highway

05/01/2026

JOB DESCRIPTION Operating Engineer - Heavy&Highway

DISTRICT 6

ENTIRE COUNTIES

Cayuga, Cortland, Jefferson, Lewis, Madison, Oneida, Onondaga, Oswego, Seneca, St. Lawrence, Tompkins

WAGES

NOTE:

---In the event that equipment listed below is operated by robotic control, the classification covering the operation will be the same as if manually operated.

---If a second employee is required by the employer for operation of any covered machine, they shall be an Engineer Class C.

CLASS A1*: All Cranes that require a NYS Crane License (Boom Truck, Cherry Picker, Derrick, Dragline, Overhead Crane (Gantry or Straddle Type), Pile Driver, Tower Cranes (including self-erecting)**, Truck Crane).

CLASS A: Asphalt Curb Machine (self-propelled, slipform); Asphalt Paver; Automated Concrete Spreader (CMI type); Automatic Fine Grader; Backhoe (except tractor mounted, rubber tired); Backhoe Excavator, Full Swing (CAT 212 or similar type); Back Filling Machine; Belt Placer (CMI type); Blacktop Plant (automated); Blacktop Roller; Bull Dozer being operated with active GPS; Cableway; Caisson Auger; Central Mix Concrete Plant (automated); Concrete Curb Machine (self-propelled, slipform); Concrete Pump; Cranes - listed in A1 that do not require a NYS Crane License; Directional Boring/Drilling Machine; Dredge; Dual Drum Paver; Excavator (all purpose-hydraulic, Gradall or similar); Front End Loader (4 cu. yd. & over); Head Tower (Sauerman or equal); Hoist (two or three drum); Holland Loader; Maintenance Engineer; Mine Hoist; Mucking Machine or Mole; Pavement Breaker (SP Wertgen; PB-4 and similar type); Profiler/Milling Machine (over 105 h.p.); Power Grader; Quad 9; Quarry Master (or equivalent); Rotating Telehandler; Scraper (including challenger type); Shovel; Side Boom; Slip Form Paver; Tractor Drawn Belt-Type Loader; Truck or Trailer Mounted Chipper (self-feeder); Tug Operator (manned rented equipment excluded); Tunnel Shovel.

CLASS B: Backhoe (tractor mounted, rubber tired); Bituminous Recycler Machine; Bituminous Spreader and Mixer; Blacktop Plant (non-automated); Blast or Rotary Drill (truck or tractor mounted); Boring Machine; Bridge Deck Finishing Machine; Brokk; Cage Hoist; Central Mix Plant (non-automated) and All Concrete Batching Plants; Concrete Paver (over 16'); Crawler Drill (self-contained); Crusher; Diesel Power Unit; Drill Rigs (truck or tractor mounted); Front End Loader (under 4 cu. yd.); Greaseman - Lubrication Engineer; HiPressure Boiler (15 lbs & over); Hoist (one drum); Hydro-Axe; Kolman Plant Loader & similar type loaders; Locomotive; Material Handling Knuckle Boom; Mini Excavators (under 18,000 lbs.); Mixer (for stabilized base, self-propelled); Monorail Machine; Profiler/Milling Machine (105 h.p. and under); Plant Engineer; Prentice Loader; Pug Mill; Pump Crete; Ready Mix Concrete Plant; Refrigeration Equipment (for soil stabilization); Road Widener; Roller (all above subgrade, See Class A for Blacktop Roller); Sea Mule; Self-contained ride-on Rock Drill (excluding Air-Track type drill); Skidder; Tractor with Dozer and/or Pusher; Trencher; Tugger Hoist; Vacuum Machine (mounted or towed); Vermeer Saws (ride-on, any size or type); Welder; Winch and Winch Cat; Work Boat Operator including L.C.M.'s.

CLASS C: "A" Frame Winch Hoist (On Truck); Aggregate Plant; Articulated Heavy Hauler; Asphalt or Concrete Grooving Machine (ride-on); Ballast Regulator (ride-on); Bituminous Heater (self-propelled); Boat (powered); Boiler (used in conjunction with production); Cement & Bin Operator; Compressors***; Concrete Pavement Spreader and Finisher; Concrete Paver or Mixer (16' & under); Concrete Saw (self-propelled); Conveyor; Deck Hand; Directional Boring/Drilling Machine Locator; Drill (Core); Drill (Well); Dust Collectors***; Electric Pump When Used in Conjunction with Well Point System; Farm Tractor with accessories; Fine Grade Machine; Fireman; Forklift; Form Tamper; Generators***; Grout Pump; Guniting Machine; Hammers (hydraulic self-propelled); Heaters***; Hydra-Spiker (ride-on); Hydraulic Pump (jacking system); Hydro-Blaster (water); Light Plants***; Mulching Machine; Oilier; Parapet Concrete or Pavement Grinder; Post Hole Digger (excluding hand-held); Post Driver; Power Broom (towed); Power Heaterman; Power Sweeper; Pumps***; Revinius Widener; Roller (subgrade & fill); Scarifier (ride-on); Shell Winder; Skid Steer Loader (Bobcat or similar, including all attachments); Span Saw (ride-on); Steam Cleaner; Tamper (ride-on); Tie Extractor (ride-on); Tie Handlers (ride-on); Tie Inserters (ride-on); Tie Spacers (ride-on); Tire Repair; Track Liner (ride-on); Tractor; Tractor (with towed accessories); Vacuum Machine (self-propelled); Vibratory Compactor; Vibro Tamp; Welding Machines***; Well Point.

***CLASS C NOTE: Considered Hands-Off (unmanned). Includes only operation and maintenance of the equipment.

Per hour: 07/01/2025

H/H	
CLASS A1*	\$ 58.85
CLASS A	55.85
CLASS B	54.97
CLASS C	51.69

(*) TONNAGE PREMIUMS:

- All cranes up to 64 ton capacity - A1 rate
- All cranes 65 ton to 110 ton capacity - A1 rate plus \$ 1.50
- All cranes 111 ton to 199 ton capacity- A1 rate plus \$ 2.00
- All cranes 200 ton to 399 ton capacity - A1 rate plus \$ 3.00

All cranes 400 ton to 599 ton capacity - A1 rate plus \$ 4.00
All cranes 600 ton to 799 ton capacity - A1 rate plus \$ 5.00
All cranes 800 ton to 999 ton capacity - A1 rate plus \$ 6.00
All cranes 1000 ton capacity and over - A1 rate plus \$ 7.00

(**) Tower Cranes - A1 rate plus \$3.00 (no tonnage premiums apply)

- Cranes in Luffer Configuration - A1 rate plus \$ 5.00
- Cranes with external ballast (Tray or Wagon) - A1 rate plus \$ 5.00

Additional \$2.50 per hour for hazardous waste removal work on a State and/or Federally designated waste site which requires employees to wear Level C or above forms of personal protection.

SHIFT WORK

SINGLE IRREGULAR WORK SHIFT: Additional \$2.50 per hour for all employees who work a single irregular work shift starting from 5:00 PM to 1:00 AM that is mandated by the Contracting Agency.

SUPPLEMENTAL BENEFITS

Per hour: 07/01/2025

Journeyworker \$ 33.55

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 6) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

NOTE: If a holiday falls on Sunday, it will be celebrated on Monday. If an employee works on this Monday, they shall be compensated at double time plus the holiday pay (triple time). If a holiday falls on a Saturday, employees who work a Saturday Holiday shall be paid double time plus the holiday pay.

REGISTERED APPRENTICES

WAGES per hour: One thousand hour terms at the following percentage of Journeyworker's CLASS B wage.

1st: 60%
2nd: 70%
3rd: 80%
4th: 90%

Additional \$2.50 per hour for hazardous waste removal work on a State and/or Federally designated waste site which requires employees to wear Level C or above forms of personal protection.

SUPPLEMENTAL BENEFITS per hour: Same as Journeyworker

6-158-545h

Operating Engineer - Survey Crew

05/01/2026

JOB DESCRIPTION Operating Engineer - Survey Crew

DISTRICT 12

ENTIRE COUNTIES

Albany, Allegany, Broome, Cayuga, Chemung, Chenango, Clinton, Columbia, Cortland, Essex, Franklin, Fulton, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Oneida, Onondaga, Ontario, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Tioga, Tompkins, Warren, Washington, Wayne, Yates

PARTIAL COUNTIES

Dutchess: The northern portion of the county from the northern boundary line of the City of Poughkeepsie, north.

Genesee: Only the portion of the county that lies east of a line down the center of Route 98 to include all area that lies within the City of Batavia.

WAGES

These rates apply to Building, Tunnel and Heavy Highway.

Per hour:

SURVEY CLASSIFICATIONS:

Party Chief - One who directs a survey party.

Instrument Person - One who operates the surveying instruments.

Rod Person - One who holds the rods and assists the Instrument Person.

07/01/2025

Party Chief \$ 52.91
Instrument Person 48.67

Rod Person 36.29
Additional \$3.00/hr. for Tunnel Work
Additional \$2.50/hr. for Hazardous Work Site

SUPPLEMENTAL BENEFITS

Per hour worked:

Journeyman \$ 30.10

OVERTIME PAY

See (B, E, P, *X) on OVERTIME PAGE

*Note: \$25.10/Hr. Only for "ALL" premium hours paid when worked.

HOLIDAY

Paid: See (5, 6) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES

WAGES: 1000 hour terms based on the Percentage of Rod Persons Wage:

07/01/2025

0-1000 60%
1001-2000 70%
2001-3000 80%

SUPPLEMENTAL BENEFIT per hour worked:

0-1000 \$ 21.88 / PHP \$18.03
1001-2000 24.90 / " 20.45
2001-3000 27.93/ " 22.93

NOTE: PHP is premium hours paid when worked.

12-158-545 D.H.H.

Operating Engineer - Survey Crew - Consulting Engineer

05/01/2026

JOB DESCRIPTION Operating Engineer - Survey Crew - Consulting Engineer

DISTRICT 12

ENTIRE COUNTIES

Albany, Allegany, Broome, Cayuga, Chemung, Chenango, Clinton, Columbia, Cortland, Essex, Franklin, Fulton, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Oneida, Onondaga, Ontario, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Tioga, Tompkins, Warren, Washington, Wayne, Yates

PARTIAL COUNTIES

Dutchess: The northern portion of the county from the northern boundary line of the City of Poughkeepsie, north.

Genesee: Only the portion of the county that lies east of a line down the center of Route 98 to include all area that lies within the City of Batavia.

WAGES

These rates apply to feasibility and preliminary design surveying, line and grade surveying for inspection or supervision of construction when performed under a Consulting Engineer Agreement.

Per hour:

SURVEY CLASSIFICATIONS:

Party Chief - One who directs a survey party.

Instrument Person - One who operates the surveying instruments.

Rod Person - One who holds the rods and assists the Instrument Person.

07/01/2025

Party Chief \$ 52.91
Instrument Person 48.67
Rod Person 36.29

Additional \$3.00/hr. for Tunnel Work.

Additional \$2.50/hr. for EPA or DEC certified toxic or hazardous waste work.

SUPPLEMENTAL BENEFITS

Per hour worked:

Journeyman \$ 30.10

OVERTIME PAY

See (B, E, Q, *X) on OVERTIME PAGE

*Note: \$25.10/Hr. Only for "ALL" premium hours paid when worked.

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES

WAGES: 1000 hour terms based on percentage of Rod Persons Wage:

07/01/2025

0-1000	60%
1001-2000	70%
2001-3000	80%

SUPPLEMENTAL BENEFIT per hour worked:

0-1000	\$ 21.88 / PHP \$18.03
1001-2000	\$ 24.90 / " 20.45
2001-3000	\$ 27.93 / " 22.93

NOTE: PHP is premium hours paid when worked.

12-158-545 DCE

Operating Engineer - Tunnel

05/01/2026

JOB DESCRIPTION Operating Engineer - Tunnel

DISTRICT 7

ENTIRE COUNTIES

Albany, Allegany, Broome, Cayuga, Chemung, Chenango, Clinton, Columbia, Cortland, Essex, Franklin, Fulton, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Oneida, Onondaga, Ontario, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Tioga, Tompkins, Warren, Washington, Wayne, Yates

PARTIAL COUNTIES

Dutchess: Northern part of Dutchess, to the northern boundary line of the City of Poughkeepie, then due east to Route 115 to Bedell Road, then east along Bedell Road to VanWagner Road, then north along VanWagner Road to Bower Road, then east along Bower Road to Rte. 44 east to Rte. 343, then along Rte. 343 east to the northern boundary of the Town of Dover Plains and east along the northern boundary of the Town of Dover Plains, to the borderline of the State of Connecticut.

Genesee: Only that portion of the county that lies east of a line drawn down the center of Route 98 and the entirety of the City of Batavia.

WAGES

CLASS A: Automatic Concrete Spreader (CMI Type); Automatic Fine Grader; Backhoe (except tractor mounted, rubber tired); Belt Placer (CMI Type); Blacktop Plant (automated); Cableway; Caisson Auger; Central Mix Concrete Plant (automated); Concrete Curb Machine (self-propelled slipform); Concrete Pump (8" or over); Dredge; Dual Drum Paver; Excavator; Front End Loader (4 cu. yd & over); Gradall; Head Tower (Sauerman or Equal); Hoist (shaft); Hoist (two or three Drum); Log Chipper/Loader (self-feeder); Maintenance Engineer (shaft and tunnel); any Mechanical Shaft Drill; Mine Hoist; Mining Machine(Mole and similar types); Mucking Machine or Mole; Overhead Crane (Gantry or Straddle Type); Pile Driver; Power Grader; Remote Controlled Mole or Tunnel Machine; Scraper; Shovel; Side Boom; Slip Form Paver (If a second man is needed, they shall be an Oiler); Tripper/Maintenance Engineer (shaft & tunnel); Tractor Drawn Belt-Type Loader; Tug Operator (manned rented equipment excluded); Tunnel Shovel.

CLASS B: Automated Central Mix Concrete Plant; Backhoe (topside); Backhoe (track mounted, rubber tired); Backhoe (topside); Bituminous Spreader and Mixer, Blacktop Plant (non-automated); Blast or Rotary Drill (truck or tractor mounted); Boring Machine; Cage Hoist; Central Mix Plant(non-automated); all Concrete Batching Plants; Compressors (4 or less exceeding 2,000 c.f.m. combined capacity); Concrete Pump; Crusher; Diesel Power Unit; Drill Rigs (tractor mounted); Front End Loader (under 4 cu. yd.); Grayco Epoxy Machine; Hoist (One Drum); Hoist (2 or 3 drum topside); Knuckle Boom material handler; Kolman Plant Loader & similar type Loaders (if employer requires another person to clean the screen or to maintain the equipment, they shall be an Oiler); L.C.M. Work Boat Operator; Locomotive; Maintenance Engineer (topside); Maintenance Grease Man; Mixer (for stabilized base-self-propelled); Monorail Machine; Plant Engineer; Personnel Hoist; Pump Crete; Ready Mix Concrete Plant; Refrigeration Equipment (for soil stabilization); Road Widener; Roller (all above sub-grade); Sea Mule; Shotcrete Machine; Shovel (topside); Tractor with Dozer and/or Pusher; Trencher; Tugger Hoist; Tunnel Locomotive; Vacuum Machine (mounted or towed); Welder; Winch; Winch Cat.

CLASS C: A Frame Truck; All Terrain Telescoping Material Handler; Ballast Regulator (ride-on); Compressors (4 not to exceed 2,000 c.f.m. combined capacity; or 3 or less with more than 1200 c.f.m. but not to exceed 2,000 c.f.m.); Compressors ((any size, but subject to other provisions for compressors), Dust Collectors, Generators, Pumps, Welding Machines, Light Plants (4 or any type combination)); Concrete Pavement Spreaders and Finishers; Conveyor; Drill (core); Drill (well); Electric Pump used in conjunction with Well Point System; Farm Tractor with Accessories; Fine Grade Machine; Fork Lift; Grout Pump (over 5 cu. ft.); Gunite Machine; Hammers (hydraulic-self-propelled); Hydra-Spiker (ride-on); Hydra-Blaster (water); Hydro-Blaster; Motorized Form Carrier; Post Hole Digger and Post Driver; Power Sweeper; Roller grade & fill); Scarifer (ride-on); Span-Saw (ride-on); Submersible Electric Pump (when used in lieu of well points); Tamper (ride-on); Tie-Extractor (ride-on), Tie Handler (ride-on), Tie Inserter (ride-on), Tie Spacer (ride-on); Track Liner (ride-on); Tractor with towed accessories; Vibratory Compactor; Vibro Tamp, Well Point.

CLASS D: Aggregate Plant; Cement & Bin Operator; Compressors (3 or less not to exceed 1,200 c.f.m. combined capacity); Compressors ((any size, but subject to other provisions for compressors), Dust Collectors, Generators, Pumps, Welding Machines, Light Plants (3 or less or any type or combination)); Concrete Saw (self-propelled); Form Tamper; Greaseman; Hydraulic Pump (jacking system); Junior Engineer; Light Plants; Mulching Machine; Oiler; Parapet Concrete or Pavement Grinder; Power Broom (towed); Power Heaterman (when used for production); Revinius Widener; Shell Winder; Steam Cleaner; Tractor.

Per hour: 07/01/2025

CLASS A	\$ 58.44
CLASS B	57.22
CLASS C	54.43
CLASS D	51.42

Additional \$5.00 per hour for Hazardous Waste Work on a state or federally designated hazardous waste site where the Operating Engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin and eye protection.

CRANES:

Crane 1: All cranes, including self-erecting.

Crane 2: All Lattice Boom Cranes and all cranes with a manufacturer's rating of fifty (50) ton and over.

Crane 3: All hydraulic cranes and derricks with a manufacturer's rating of forty nine (49) ton and below, including boom trucks.

Crane 1	\$ 62.44
Crane 2	61.44
Crane 3	60.44

SUPPLEMENTAL BENEFITS

Per hour:

\$ 25.90
+ 10.10*

* This portion of the benefits subject to SAME PREMIUM as shown for overtime wages.

OVERTIME PAY

See (B, B2, E, Q, X) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 6) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

NOTE: If a holiday falls on Sunday, it shall be observed on Monday.

REGISTERED APPRENTICES

WAGES:(1000) hours terms at the following percentage of Journeyworker's Class B wage.

1st term	60%
2nd term	65%
3rd term	70%
4th term	75%

SUPPLEMENTAL BENEFITS per hour: Same as Journeyworker

7-158-832TL.

Painter

05/01/2026

JOB DESCRIPTION Painter

DISTRICT 6

ENTIRE COUNTIES

Cayuga, Herkimer, Madison, Oneida, Onondaga, Seneca

PARTIAL COUNTIES

Lewis: Only the Townships of High Market, Lewis, Leyden, Lyonsdale, Osceola, Turin and West Turin.

Ontario: The City and Township of Geneva.

Oswego: Only the Townships of Amboy, Constantia, Williamstown and Oneida Lake.

WAGES

Per hour:	07/01/2025	05/01/2026
Basic Rate (Brush & Roll)	\$ 28.32	\$ 30.03
Sign Painting	28.32	30.03
Lead Based Paint Abatement	28.32	30.03
Drywall Taper/ Finisher	29.32	31.03
Wallcovering	29.32	31.03
Drywall Machine Operator	29.82	31.53
Spray	28.82	30.53

Parking Lot, Hwy Striping	28.82	30.53
Epoxy (Brush-Roller)	28.82	30.53
Epoxy (Spray)	28.82	30.53
Sandblasting (Operator)	28.82	30.53
Boatswain Chair	28.82	30.53
Swing Scaffold	28.82	30.53
Structural Steel (except bridges, tanks, tunnel)	28.82	30.53
Coal Tar epoxy	29.82	31.53
Asbestos Encapsulation	30.52	32.23

NOTE - SEE BRIDGE PAINTER RATES FOR BRIDGES, TANKS, OR TUNNELS.

SHIFT WORK

FOR ANY SHIFT WHICH STARTS PRIOR TO 6:00 AM OR AFTER 3:00 PM, ALL EMPLOYEES WHO WORK A SINGLE IRREGULAR WORK SHIFT ON GOVERNMENTAL MANDATED WORK SHALL BE PAID AN ADDITIONAL \$2.00 PER HOUR ABOVE THE APPLICABLE WAGE SCALE.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker	\$ 27.20	\$ 27.30
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OVERTIME PAY

See (B, *E2, F, R) on OVERTIME PAGE

* NOTE - On exterior work only.

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
 Overtime: See (5, 6) on HOLIDAY PAGE

NOTE: A holiday that falls on a Saturday will be celebrated on the preceding Friday. A holiday that falls on a Sunday will be celebrated on the following Monday.

REGISTERED APPRENTICES

WAGES per hour:

Painter/Decorator: 750 hour terms at the following wage rate:

1st	2nd	3rd	4th	5th	6th	7th	8th
\$ 18.00	\$ 18.50	\$ 19.00	\$ 19.50	\$ 20.00	\$ 21.00	\$ 22.00	\$ 23.00

Drywall Taper/ Finisher: 750 hour terms at the following wage rate:

1st	2nd	3rd	4th	5th	6th
\$ 20.00	\$ 20.50	\$ 21.00	\$ 21.50	\$ 22.00	\$ 23.00

SUPPLEMENTAL BENEFITS per hour:

Painter/Decorator:

1st	2nd	3rd	4th	5th	6th	7th	8th
\$ 6.50	\$ 6.50	\$ 7.50	\$ 7.50	\$ 10.50	\$ 10.50	\$ 13.00	\$ 13.00

Drywall Taper/ Finisher:

1st	2nd	3rd	4th	5th	6th
\$ 7.50	\$ 7.50	\$ 7.50	\$ 10.00	\$ 10.00	\$ 12.00

Painter **05/01/2026**

JOB DESCRIPTION Painter

DISTRICT 3

ENTIRE COUNTIES

Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Cortland, Delaware, Erie, Genesee, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Niagara, Oneida, Onondaga, Ontario, Orleans, Oswego, Otsego, Schuyler, Seneca, St. Lawrence, Steuben, Tioga, Tompkins, Wayne, Wyoming, Yates

WAGES

Per hour:	07/01/2025	05/01/2026
		Additional
Bridge	\$ 46.19	\$ 2.50
Tunnel	46.19	
Tank*	44.19	

For Bridge Painting Contracts, ALL WORKERS on and off the bridge (including Flagmen) are to be paid Painter's Rate; the contract must be ONLY for Bridge Painting.

*Tank rate applies to indoor and outdoor tanks, tank towers, standpipes, digesters, waste water treatment tanks, chlorinator tanks, etc. Covers all types of tanks including but not limited to steel tanks, concrete tanks, fiberglass tanks, etc.

SHIFT WORK

Note an additional \$1.50 per hour is required when the contracting agency or project specification requires any shift to start prior to 6:00am or after 12:00 noon.

SUPPLEMENTAL BENEFITS

Per hour: \$ 31.51

OVERTIME PAY

Exterior work only See (B, E2, E4, F, R) on OVERTIME PAGE.
 All other work See (B, F, R) on OVERTIME PAGE.

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
 Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wages per hour:

750 hour terms at the following wage:

1st	2nd	3rd	4th	5th	6th
\$ 24.00	\$ 26.00	\$ 28.00	\$ 30.00	\$ 34.00	\$ 38.00

Supplemental benefits per hour:

1st	2nd	3rd	4th	5th	6th
\$ 6.60	\$ 6.95	\$ 7.30	\$ 7.65	\$ 8.00	\$ 8.35

3-4-Bridge, Tunnel, Tank

Painter - Metal Polisher

05/01/2026

JOB DESCRIPTION Painter - Metal Polisher

DISTRICT 8

ENTIRE COUNTIES

Albany, Allegany, Bronx, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Kings, Lewis, Livingston, Madison, Monroe, Montgomery, Nassau, New York, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Queens, Rensselaer, Richmond, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Suffolk, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Westchester, Wyoming, Yates

WAGES

	07/01/2025
Metal Polisher	\$ 40.33
Metal Polisher*	41.43
Metal Polisher**	44.33

*Note: Applies on New Construction & complete renovation

** Note: Applies when working on scaffolds over 34 feet.

SUPPLEMENTAL BENEFITS

Per Hour: 07/01/2025

Journeyworker:

All classification \$ 13.44

OVERTIME PAY

See (B, E, P, T) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 6, 11, 15, 16, 25, 26) on HOLIDAY PAGE

Overtime: See (5, 6, 11, 15, 16, 25, 26) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wages per hour:

One (1) year term at the following wage rates:

07/01/2025

1st year	\$ 20.17
2nd year	22.18
3rd year	24.20

1st year*	\$ 20.56
2nd year*	22.62
3rd year*	24.74

1st year**	\$ 22.67
2nd year**	24.68
3rd year**	26.70

*Note: Applies on New Construction & complete renovation

** Note: Applies when working on scaffolds over 34 feet.

Supplemental benefits:

Per hour:

1st year	\$ 8.94
2nd year	8.94
3rd year	8.94

8-8A/28A-MP

Plumber

05/01/2026

JOB DESCRIPTION Plumber

DISTRICT 7

ENTIRE COUNTIES

Herkimer, Oneida

PARTIAL COUNTIES

Hamilton: Only the Town of Inlet.

Lewis: Towns of Lewis, Leyden, Lyonsdale, and West Turin.

Madison: Towns of Brookfield, Eaton, Fenner, Hamilton, Lebanon, Lenox, Lincoln, Madison, Nelson, Oneida, Smithfield, and Stockbridge.

Otsego: Towns of Cherry Valley, Exeter, Middlefield, Otsego, Plainfield, Richfield, Roseboom, and Springfield.

WAGES

Per hour:	07/01/2025	05/01/2026
Plumber	\$ 45.93	\$ 47.93
Steamfitter	45.93	47.93

SHIFT WORK

Agency-mandated shift operations:

1. Shift work shall start no earlier than 6AM Monday and will conclude no later than 9AM Saturday (overtime premiums applicable after 8 hours in a shift).
2. Single irregular shiftwork, less than 3 consecutive days will be paid at the rate of time and one-half of the regular hourly rate.
3. 3 consecutive work days or more:
 - First Shift - Regular hourly rate.
 - Second Shift - Regular hourly rate plus 12%.
 - Third Shift - Regular hourly rate plus 18%.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker	\$ 15.15	\$ 16.00
	+ 18.67**	+ 19.27**

** This portion of the benefit is subject to the SAME PREMIUM as shown for overtime on projects over \$100 million in total construction cost (including engineering & architecture).

OVERTIME PAY

See (B, E, Q, *V) on OVERTIME PAGE

*Portion of supplemental benefits subject to V code when project cost is over \$100 million (including engineering & architecture).

HOLIDAY

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

NOTE: If a holiday falls on Sunday, it will be observed the following day. If a holiday falls on Saturday, it will be observed that day unless so determined by the Federal Government to be celebrated on a different day.

REGISTERED APPRENTICES

WAGES: Yearly terms at the following percentages of Journeyworker's wage.

1st	2nd	3rd	4th	5th
50%	55%	60%	70%	85%

SUPPLEMENTAL BENEFITS per hour:

1st Term:	\$ 15.15 + 8.92**	\$ 16.00 + 9.42**
All others:	\$ 15.15 + 14.21**	\$ 16.00 + 14.81**

** This portion of the benefit is subject to the SAME PREMIUM as shown for overtime on projects over \$100 million in total construction cost (including engineering & architecture).

7-112n-SF

Roofer **05/01/2026**

JOB DESCRIPTION Roofer

DISTRICT 6

ENTIRE COUNTIES

Cayuga, Cortland, Franklin, Herkimer, Jefferson, Lewis, Madison, Oneida, Onondaga, Oswego, Seneca, St. Lawrence

WAGES

Per hour:	07/01/2025	06/01/2026	06/01/2027
		Additional	Additional
Roofer, Waterproofer	\$ 35.80	\$ 2.00*	\$ 2.00*

* To be allocated at a later date.

NOTE - Does not include metal roof flashings, gravel stop, or metal roofing; See Sheetmetal Worker wage schedule.

Additional per hour:

Green Roofing**	\$ 0.25
Pitch Removal & Appl.	1.50
Asbestos Abatement	1.50

** Green Roofing is any component of green technology or living roof above the roof membrane including, but not limited to, the fabric, dirt and plantings.

SHIFT WORK

WHEN MANDATED BY THE OWNER OR CONTRACTING AGENCY, THERE IS AN ADDITIONAL PREMIUM OF \$4.00/HR FOR HOURS WORKED BEFORE 5:30AM AND AFTER 5:30PM.

SUPPLEMENTAL BENEFITS

Per hour:	
Journeyworker	\$ 26.30

Additional contribution 0.75
 on any Asbestos Abatement work

OVERTIME PAY

See (B, E, E2*, Q) on OVERTIME PAGE

*NOTE - If a holiday falls in that week and 32 hours were worked, Saturday will be paid at 1 1/2 times the rate.

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
 Overtime: See (5, 6) on HOLIDAY PAGE

NOTE: When any of these holidays falls on Sunday, the following day shall be observed as a holiday.

REGISTERED APPRENTICES

WAGES per hour: 1000 hour terms at the following percentage of the Journeyworker's wage:

1st term (0 to 999)	65%
2nd term (1000 to 1999)	70%
3rd term (2000 to 2999)	75%
4th term (3000 to 3999)	85%

Additional per hour:

Green Roofing**	\$ 0.25
Pitch Removal & Appl.	1.50
Asbestos Abatement	1.50

SUPPLEMENTAL BENEFITS per hour:

1st term	\$ 19.93
2nd term	21.85
3rd term	25.30

4th term	26.30
Additional contribution on any Asbestos Abatement work	\$ 0.75

6-195

Sheetmetal Worker **05/01/2026**

JOB DESCRIPTION Sheetmetal Worker **DISTRICT 6**

ENTIRE COUNTIES

Cayuga, Chenango, Cortland, Herkimer, Jefferson, Lewis, Madison, Oneida, Onondaga, Oswego, St. Lawrence

WAGES

Per hour:	07/01/2025	11/01/2025	05/01/2026	05/01/2027 Additional
Sheetmetal Worker:				
** (under \$10 million)	\$ 36.29	\$ 37.54	\$ 40.54	\$ 3.25*
** (over \$10 million)	\$ 42.29	\$ 43.54	\$ 46.54	3.25*

* To be allocated at a later date.

**For total cost of Sheetmetal contract only.

TO INCLUDE METAL ROOF FLASHINGS, GRAVEL STOP, AND METAL STANDING SEAM ROOFING.

SUPPLEMENTAL BENEFITS

Per hour:	07/01/2025	11/01/2025	05/01/2026
Journeyworker	\$ 23.31	\$ 23.56	\$ 23.81

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
 Overtime: See (5, 6) on HOLIDAY PAGE

When any holiday falls on a Saturday, the Friday before such holiday shall be recognized as the legal holiday. Any holiday falling on Sunday, the following Monday shall be recognized as the legal holiday.

REGISTERED APPRENTICES

WAGES per hour: One year terms at the following percentage of the Journeyworker's wage.

1st	2nd	3rd	4th	5th
55%	60%	70%	75%	85%

SUPPLEMENTAL BENEFITS per hour:

	1st	2nd	3rd	4th	5th
07/01/2025	\$ 14.84	\$ 15.45	\$ 16.54	\$ 18.18	\$ 19.27
11/01/2025	\$ 15.11	\$ 15.70	\$ 16.79	\$ 18.43	\$ 19.52
05/01/2026	\$ 15.36	\$ 15.90	\$ 16.99	\$ 18.63	\$ 19.72

6-58

Sprinkler Fitter **05/01/2026**

JOB DESCRIPTION Sprinkler Fitter **DISTRICT 1**

ENTIRE COUNTIES

Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orleans, Oswego, Otsego, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Tioga, Tompkins, Washington, Wayne, Wyoming, Yates

WAGES

Per hour	07/01/2025
Sprinkler Fitter	\$ 45.06

SUPPLEMENTAL BENEFITS

Per hour	
Journeyworker	\$ 29.41

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
 Overtime: See (5, 6) on HOLIDAY PAGE

Note: When a holiday falls on Sunday, the following Monday shall be considered a holiday and all work performed on either day shall be at the double time rate. When a holiday falls on Saturday, the preceding Friday shall be considered a holiday and all work performed on either day shall be at the double time rate.

REGISTERED APPRENTICES

Wages per hour

One Half Year terms at the following wage.

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
\$ 23.28	\$ 25.98	\$ 28.15	\$ 30.31	\$ 31.94	\$ 34.64	\$ 36.81	\$ 38.97	\$ 41.14	\$ 43.30

Supplemental Benefits per hour

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
\$ 9.57	\$ 9.57	\$ 21.49	\$ 21.49	\$ 21.74	\$ 21.74	\$ 21.74	\$ 21.74	\$ 21.74	\$ 21.74
									1-669

Teamster - Building **05/01/2026**

JOB DESCRIPTION Teamster - Building

DISTRICT 1

ENTIRE COUNTIES

Hamilton, Herkimer, Oneida

PARTIAL COUNTIES

Chenango: Entire county except the Townships of Afton, Bainbridge, Coventry, Greene, Guilford, Oxford and Smithville.
 Lewis: Only the Township of Grieg, Lewis, Leyden, Lowville, Lyonsdale, Martinsburg, Turin, West Turin and Watson.
 Madison: Only the Townships of Brookfield, Eaton, Hamilton, Lebanon, Lincoln, Madison, Smithfield, Stockbridge and the City of Oneida
 Otsego: Entire county EXCEPT Townships of Butternuts, Laurens, Maryland, Milford, Morris, Oneonta, Otego, Unidilla and Worchester.

WAGES

GROUP # A:

Straight trucks, winch, transit mix on the site, road oilers, dump trucks, pick-ups, panel, water trucks, fuel trucks on the site (including nozzle).

GROUP # B:

Low boy or Low boy trailer, Euclids or similar equipment.

WAGES per hour

07/01/2025

Group A	\$ 34.65
Group B	34.95

SUPPLEMENTAL BENEFITS

Per hour

Journeyworker	\$ 29.56
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OVERTIME PAY

See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
 Overtime: See (5, 6) on HOLIDAY PAGE

Note: Any holiday which occurs on Sunday shall be observed the following Monday.

1-294z2

Teamster - Heavy&Highway **05/01/2026**

JOB DESCRIPTION Teamster - Heavy&Highway

DISTRICT 1

ENTIRE COUNTIES

Albany, Columbia, Fulton, Greene, Hamilton, Herkimer, Montgomery, Oneida, Rensselaer, Saratoga, Schenectady, Schoharie, Washington

PARTIAL COUNTIES

Chenango: Entire county except the Townships of Afton, Bainbridge, Coventry, Greene, Guilford, Oxford and Smithville.
 Lewis: Only the Township of Grieg, Lewis, Leyden, Lowville, Lyonsdale, Martinsburg, Turin, West Turin and Watson.

Madison: Only the Townships of Brookfield, Eaton, Hamilton, Lebanon, Lincoln, Madison, Smithfield, Stockbridge and the City of Oneida
 Otsego: Entire county EXCEPT Townships of Butternuts, Laurens, Maryland, Milford, Morris, Oneonta, Otego, Unidilla and Worchester.
 Warren: Only the Townships of Bolton, Warrensburg, Thurman, Stony Creek, Luzerne, Caldwell (Lake George), and Queensbury.

WAGES

GROUP #1:

Warehousemen, Yardmen, Truck Helpers, Pickups, Panel Trucks, Flatboy Material Trucks(straight jobs), Single Axel Dump Trucks, Dumpsters, Material Checkers and Receivers, Greasers, Truck Tiremen, Mechanics Helpers and Parts Chasers.

GROUP #2:

Tandems and Batch Trucks, Mechanics, Dispatcher.

GROUP #3:

Semi-Trailers, Low-boy Trucks, Asphalt Distributor Trucks, and Agitator, Mixer Trucks and dumpcrete type vehicles, Truck Mechanic, Fuel Trucks.

GROUP #4:

Specialized Earth Moving Equipment, Euclid type, or similar off-highway, where not self-loading, Straddle (Ross) Carrier, and self-contained concrete mobile truck.

GROUP #5:

Off-highway Tandem Back-Dump, Twin Engine Equipment and Double-Hitched Equipment where not self-loading.

WAGES per hour	07/01/2025	07/01/2026	07/01/2027
Group #1	\$ 41.78	\$43.79	\$45.79
Group #2	41.84	43.85	45.85
Group #3	41.93	43.94	45.95
Group #4	42.07	44.09	46.10
Group #5	42.24	44.26	46.28

Hazardous waste projects that require a Level C or greater protection shall be paid an additional \$ 1.00 per hour.

SHIFT WORK

All employees who work a single irregular work shift starting between 5pm and 1 am on governmental mandated night shifts shall be paid an additional \$2.50 per hour.

SUPPLEMENTAL BENEFITS

Per hour:

\$ 29.87	\$ 30.77	\$ 31.64
+\$1.00 per* hour worked	+\$1.00 per* hour worked	+\$1.00 per* hour worked

(*) not applicable to paid holidays

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 6) on HOLIDAY PAGE
 Overtime: See (5, 6) on HOLIDAY PAGE

1-294h/h

Welder

05/01/2026

JOB DESCRIPTION Welder

DISTRICT 1

ENTIRE COUNTIES

Albany, Allegany, Bronx, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Kings, Lewis, Livingston, Madison, Monroe, Montgomery, Nassau, New York, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Queens, Rensselaer, Richmond, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Suffolk, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Westchester, Wyoming, Yates

WAGES

Per hour 07/01/2025

Welder: To be paid the same rate of the mechanic performing the work.*

*EXCEPTION: If a specific welder certification is required, then the 'Certified Welder' rate in that trade tag will be paid.

OVERTIME PAY

HOLIDAY

Overtime Codes

Following is an explanation of the code(s) listed in the OVERTIME section of each classification contained in the attached schedule. Additional requirements may also be listed in the HOLIDAY section.

NOTE: Supplemental Benefits are 'Per hour worked' (for each hour worked) unless otherwise noted

- (AA) Time and one half of the hourly rate after 7 and one half hours per day
- (A) Time and one half of the hourly rate after 7 hours per day
- (B) Time and one half of the hourly rate after 8 hours per day
- (B1) Time and one half of the hourly rate for the 9th & 10th hours week days and the 1st 8 hours on Saturday.
Double the hourly rate for all additional hours
- (B2) Time and one half of the hourly rate after 40 hours per week
- (B3) Time and one half of the hourly rate after 40 straight hours per week
- (C) Double the hourly rate after 7 hours per day
- (C1) Double the hourly rate after 7 and one half hours per day
- (D) Double the hourly rate after 8 hours per day
- (D1) Double the hourly rate after 9 hours per day
- (E) Time and one half of the hourly rate on Saturday
- (E1) Time and one half 1st 4 hours on Saturday; Double the hourly rate all additional Saturday hours
- (E2) Saturday may be used as a make-up day at straight time when a day is lost during that week due to inclement weather
- (E3) Between November 1st and March 3rd Saturday may be used as a make-up day at straight time when a day is lost during that week due to inclement weather, provided a given employee has worked between 16 and 32 hours that week
- (E4) Sunday may be used as a make-up day at straight time when a day is lost during that week due to inclement weather
- (E5) Double time after 8 hours on Saturdays
- (F) Time and one half of the hourly rate on Saturday and Sunday
- (G) Time and one half of the hourly rate on Saturday and Holidays
- (H) Time and one half of the hourly rate on Saturday, Sunday, and Holidays
- (I) Time and one half of the hourly rate on Sunday
- (J) Time and one half of the hourly rate on Sunday and Holidays
- (K) Time and one half of the hourly rate on Holidays
- (L) Double the hourly rate on Saturday
- (M) Double the hourly rate on Saturday and Sunday
- (N) Double the hourly rate on Saturday and Holidays
- (O) Double the hourly rate on Saturday, Sunday, and Holidays
- (P) Double the hourly rate on Sunday
- (Q) Double the hourly rate on Sunday and Holidays
- (R) Double the hourly rate on Holidays

- (S) Two and one half times the hourly rate for Holidays
- (S1) Two and one half times the hourly rate the first 8 hours on Sunday or Holidays One and one half times the hourly rate all additional hours.
- (T) Triple the hourly rate for Holidays
- (U) Four times the hourly rate for Holidays
- (V) Including benefits at SAME PREMIUM as shown for overtime
- (W) Time and one half for benefits on all overtime hours.
- (X) Benefits payable on Paid Holiday at straight time. If worked, additional benefit amount will be required for worked hours. (Refer to other codes listed.)

Holiday Codes

PAID Holidays:

Paid Holidays are days for which an eligible employee receives a regular day's pay, but is not required to perform work. If an employee works on a day listed as a paid holiday, this remuneration is in addition to payment of the required prevailing rate for the work actually performed.

OVERTIME Holiday Pay:

Overtime holiday pay is the premium pay that is required for work performed on specified holidays. It is only required where the employee actually performs work on such holidays. The applicable holidays are listed under HOLIDAYS: OVERTIME. The required rate of pay for these covered holidays can be found in the OVERTIME PAY section listings for each classification.

Following is an explanation of the code(s) listed in the HOLIDAY section of each classification contained in the attached schedule. The Holidays as listed below are to be paid at the wage rates at which the employee is normally classified.

- (1) None
- (2) Labor Day
- (3) Memorial Day and Labor Day
- (4) Memorial Day and July 4th
- (5) Memorial Day, July 4th, and Labor Day
- (6) New Year's, Thanksgiving, and Christmas
- (7) Lincoln's Birthday, Washington's Birthday, and Veterans Day
- (8) Good Friday
- (9) Lincoln's Birthday
- (10) Washington's Birthday
- (11) Columbus Day
- (12) Election Day
- (13) Presidential Election Day
- (14) 1/2 Day on Presidential Election Day
- (15) Veterans Day
- (16) Day after Thanksgiving
- (17) July 4th
- (18) 1/2 Day before Christmas
- (19) 1/2 Day before New Years
- (20) Thanksgiving
- (21) New Year's Day
- (22) Christmas
- (23) Day before Christmas
- (24) Day before New Year's
- (25) Presidents' Day
- (26) Martin Luther King, Jr. Day
- (27) Memorial Day
- (28) Easter Sunday

(29) Juneteenth

**New York State Department of Labor - Bureau of Public Work
State Office Building Campus
Building 12 - Room 130
Albany, New York 12226**

REQUEST FOR WAGE AND SUPPLEMENT INFORMATION

As Required by Articles 8 and 9 of the NYS Labor Law

Fax (518) 485-1870 or mail this form for new schedules or for determination for additional occupations.

This Form Must Be Typed

Submitted By:

(Check Only One)

Contracting Agency

Architect or Engineering Firm

Public Work District Office

Date:

A. Public Work Contract to be let by: (Enter Data Pertaining to Contracting/Public Agency)

1. Name and complete address (Check if new or change)

Telephone

Fax

E-Mail:

2. NY State Units (see Item 5).

01 DOT

02 OGS

03 Dormitory Authority

04 State University
Construction Fund

05 Mental Hygiene
Facilities Corp.

06 OTHER N.Y. STATE UNIT

07 City

08 Local School District

09 Special Local District, i.e.,
Fire, Sewer, Water District

10 Village

11 Town

12 County

13 Other Non-N.Y. State
(Describe)

3. SEND REPLY TO (check if new or change)
Name and complete address:

Telephone

Fax

E-Mail:

4. SERVICE REQUIRED. Check appropriate box and provide project information.

New Schedule of Wages and Supplements.

APPROXIMATE BID DATE :

Additional Occupation and/or Redetermination

PRC NUMBER ISSUED PREVIOUSLY FOR
THIS PROJECT :

OFFICE USE ONLY

B. PROJECT PARTICULARS

5. Project Title _____

Description of Work _____

Contract Identification Number _____

Note: For NYS units, the OSC Contract No. _____

6. Location of Project:

Location on Site _____

Route No/Street Address _____

Village or City _____

Town _____

County _____

7. Nature of Project - Check One:

1. New Building

2. Addition to Existing Structure

3. Heavy and Highway Construction (New and Repair)

4. New Sewer or Waterline

5. Other New Construction (Explain)

6. Other Reconstruction, Maintenance, Repair or Alteration

7. Demolition

8. Building Service Contract

8. OCCUPATION FOR PROJECT :

Construction (Building, Heavy
Highway/Sewer/Water)

Tunnel

Residential

Landscape Maintenance

Elevator maintenance

Exterminators, Fumigators

Fire Safety Director, NYC Only

Fuel Delivery

Guards, Watchmen

Janitors, Porters, Cleaners,
Elevator Operators

Moving furniture and
equipment

Trash and refuse removal

Window cleaners

Other (Describe)

9. Does this project comply with the Wicks Law involving separate bidding? YES NO

10. Name and Title of Requester

Signature



NEW YORK STATE DEPARTMENT OF LABOR
Bureau of Public Work - Debarment List

**LIST OF EMPLOYERS INELIGIBLE TO BID ON OR BE
AWARDED ANY PUBLIC WORK CONTRACT**

Under Article 8 and Article 9 of the NYS Labor Law, a contractor, sub-contractor and/or its successor shall be debarred and ineligible to submit a bid on or be awarded any public work or public building service contract/sub-contract with the state, any municipal corporation or public body for a period of five (5) years from the date of debarment when:

- Two (2) final determinations have been rendered within any consecutive six-year (6) period determining that such contractor, sub-contractor and/or its successor has WILLFULLY failed to pay the prevailing wage and/or supplements;
- One (1) final determination involves falsification of payroll records or the kickback of wages and/or supplements.

The agency issuing the determination and providing the information, is denoted under the heading 'Fiscal Officer'. DOL = New York State Department of Labor; NYC = New York City Comptroller's Office; AG = New York State Attorney General's Office; DA = County District Attorney's Office.

Debarment Database: To search for contractors, sub-contractors and/or their successors debarred from bidding or being awarded any public work contract or subcontract under NYS Labor Law Articles 8 and 9, or under NYS Workers' Compensation Law Section 141-b, access the database at this link: <https://apps.labor.ny.gov/EDList/searchPage.do>

For inquiries please call 518-457-5589.

NYSDOL Bureau of Public Work Debarment List 05/15/2026

Article 8

AGENCY	Fiscal Officer	FEIN	EMPLOYER NAME	EMPLOYER DBA NAME	ADDRESS	DEBARMENT START DATE	DEBARMENT END DATE
DOL	DOL	*****5784	A.J.M. TRUCKING, INC.		PO BOX 2064 MONROE NY 10950	02/12/2024	02/12/2029
DOL	DOL		AKHLAQ OULAKH		4307 28TH AVE ASTORIA NY 11103	10/11/2024	10/11/2029
DOL	DOL		ALEXANDER DELISA		411 THEODORE FREMND SUITE 206RYE NY 10580	09/03/2025	09/03/2030
DOL	NYC		ALL COUNTY SEWER & DRAIN, INC.		7 GREENFIELD DR WARWICK NY 10990	03/25/2022	03/25/2027
DOL	DOL	*****8387	AMERICAN PAVING & MASONRY, CORP.		8 FOREST AVE GLEN COVE NY 11542	05/24/2024	05/24/2029
DOL	DOL	*****8654	AMERICAN PAVING, INC.		8 FORREST AVE. GLEN COVE NY 11542	05/24/2024	05/24/2029
DOL	NYC	*****8017	AMIN ELECTRICAL CORP.		97-23 218TH STREET QUEENS VILLAGE NY 11429	12/04/2025	12/04/2030
DOL	DOL		ANGELO STANCO		8 FOREST AVE. GLEN COVE NY 11542	05/24/2024	05/24/2029
DOL	DOL		ANGELO TONDO		449 WEST MOMBASHA ROAD MONROE NY 10950	06/06/2022	06/06/2027
DOL	DOL	*****4231	ANKER'S ELECTRIC SERVICE, INC.		10 SOUTH 5TH ST LOCUST VALLEY NY 11560	09/26/2022	09/26/2027
DOL	DOL		ANTHONY CASALE		20 HEATHER RIDGE ROAD TROY NY 12180	05/20/2025	05/20/2030
DOL	DOL		ANTHONY MONGELLI		PO BOX 2064 MONROE NY 10950	02/12/2024	02/12/2029
DOL	DOL	*****8421	B & B DRYWALL, INC		206 WARREN AVE APT 1WHITE PLAINS NY 10603	12/14/2021	12/14/2026
DOL	DOL	*****3932	B ROC CONSTRUCTION INC		7307 WOODSIDE ROAD VICTOR NY 14564	05/06/2025	05/06/2030
DOL	DA	*****2404	BJA RENOVATION, CORP		33 DOLLARD DR NORTH BABYLON NY 11703	03/19/2025	03/19/2030
DOL	DOL	*****5078	BLACK RIVER TREE REMOVAL, LLC		29807 ANDREWS ROAD BLACK RIVER NY 13032	10/17/2023	10/17/2028
DOL	DOL		C.M.C CONTRACTORS, INC.		500 WEST PUTNAM AVE SUITE 400GREENWICH CT 06830	09/03/2025	09/03/2030
DOL	DOL	*****5161	CALADRI DEVELOPMENT CORP.		1223 PARK ST. PEEKSKILL NY 10566	05/17/2021	05/17/2026
DOL	DOL	*****3391	CALI ENTERPRISES, INC.		1223 PARK STREET PEEKSKILL NY 10566	05/17/2021	05/17/2026
DOL	DOL		CARLOS F. ESCOBAR		411 THEODORE FREMND AVE SUITE 206RYE NY 10580	09/03/2025	09/03/2030
DOL	DOL		CARLOS FIGUEROA		411 THEODORE FREMND AVE SUITE 206RYE NY 10580	09/03/2025	09/03/2030
DOL	DOL	*****4155	CASA BUILDERS, INC.	FRIEDLANDER CONSTRUCTI ON	64 N PUTT CONNERS ROAD NEW PALTZ NY 12561	05/10/2023	05/10/2028
DOL	AG	*****7247	CENTURY CONCRETE CORP		2375 RAYNOR ST RONKONKOMA NY 11779	08/04/2021	08/04/2026
DOL	DOL		CESAREO TULA		120 SEARS AVE ELMSFORD NY 10523	09/26/2025	09/26/2030
DOL	DOL	*****2292	CHAMPION MAINTENANCE CONTRACTORS, INC.		211 SOUTH RIDGE STREET RYE BROOK NY 10573	09/03/2025	09/03/2030
DOL	NYC	*****2117	CHARAN ELECTRICAL ENTERPRISES		9-11 40TH AVENUE LONG ISLAND CITY NY 11101	09/26/2023	09/26/2028
DOL	DOL		CHARLES CASALE		55 MAIN AVENUE WYNANTSKILL NY 12198	05/20/2025	05/20/2030
DOL	DOL		CHARLES CASALE		55 MAIN AVENUE WYNANTSKILL NY 12198	05/20/2025	05/20/2030
DOL	DOL		CHRISTOPHER PEROSI		5507 NESCONSET HIGHWAY MT. SINAI NY 11766	07/17/2025	07/17/2030
DOL	DOL	*****2281	CORRAO TRUCKING, INC.		PO BOX 393 NANUET NY 10954	09/17/2024	09/17/2029
DOL	DOL		CRAIG JOHANSEN		10 SOUTH 5TH ST LOCUST VALLEY NY 11560	09/26/2022	09/26/2027
DOL	DOL	*****7619	DANCO CONSTRUCTION UNLIMITED INC.		485 RAFT AVENUE HOLBROOK NY 11741	10/19/2021	10/19/2026
DOL	DOL		DANIEL DELISA		211 SOUTH RIDGE STREET RYE BROOK NY 10573	09/03/2025	09/03/2030
DOL	DOL		DANIEL ROBERT MCNALLY		7 GREENFIELD DRIVE WARWICK NY 10990	03/25/2022	03/25/2027
DOL	DOL		DARWIN PEGUESE		6400 BALTIMORE NATIONAL SUITE 602CANTONVILLE NY 21228	10/24/2024	10/24/2029

NYS DOL Bureau of Public Work Debarment List 05/15/2026

Article 8

DOL	DOL		DAVID FRIEDLANDER		64 NORTH PUTT CORNERS RD NEW PALTZ NY 12561	05/10/2023	05/10/2028
DOL	DOL		DENISE NAGLE		36 OAKWOOD TRAIL S AL MONROE NY 10950	10/29/2025	10/29/2030
DOL	DOL		DINA TAYLOR		64 N PUTT CONNERS RD NEW PALTZ NY 12561	05/10/2023	05/10/2028
DOL	AG		EDWIN HUTZLER		23 NORTH HOWELLS RD BELLPORT NY 11713	08/04/2021	08/04/2026
DOL	DA		EDWIN HUTZLER		2375 RAYNOR STREET RONKONKOMA NY 11779	08/04/2021	08/04/2026
DOL	DOL	****2337	EGL DRAINAGE SOLUTION & REPAIRS LLC		5507 NESCONSET HIGHWAY MT. SINAI NY 11766	07/17/2025	07/17/2030
DOL	DOL	****0780	EMES HEATING & PLUMBING CONTR		5 EMES LANE MONSEY NY 10952	01/20/2002	01/20/3002
DOL	DOL		EMIL KISZKO		84 DIAMOND ST BROOKLYN NY 11222	07/18/2024	07/18/2029
DOL	DOL	****3298	EMJACK CONSTRUCTION CORP.		84 DIAMOND ST BROOKLYN NY 11222	07/18/2024	07/18/2029
DOL	DOL	****3298	EMJACK CONSTRUCTION LLC		4192 SIR ANDREW CIRCLE DOYLESTOWN PA 18902	07/18/2024	07/18/2029
DOL	NYC		ENRICO MANETTA		101 MALBA DR. WHITESTONE NY 11357	04/01/2026	04/01/2031
DOL	DOL		EUGENIUSZ "GINO" KUCHAR		195 KINGSLAND AVE BROOKLYN NY 11222	12/22/2023	12/22/2028
DOL	DA		FREDERICK HUTZLER		2375 RAYNOR STREET RONKONKOMA NY 11779	08/04/2021	08/04/2026
DOL	DOL	****2998	G.E.M. AMERICAN CONSTRUCTION CORP.		195 KINGSLAND AVE BROOKLYN NY 11222	12/22/2023	12/22/2028
DOL	DA		GEORGE LUCEY		150 KINGS STREET BROOKLYN NY 11231	01/19/1998	01/19/2998
DOL	NYC		GHANSHYAM AMIN		97-23 218TH STREET QUEENS VILLAGE NY 11429	12/04/2025	12/04/2030
DOL	DA		GIOVANNA TRAVALJA		3735 9TH ST LONG ISLAND CITY NY 11101	01/05/2023	01/05/2028
DOL	DA		GIOVANNI NAPOLITANO		2501 BAYVIEW AVENUE WANTAGH NY 11793	02/21/2024	02/21/2029
DOL	DA	****0213	GORILLA CONTRACTING GROUP, LLC		505 MANHATTAN AVE WEST BABYLON NY 11704	10/05/2023	10/05/2028
DOL	DA	****4760	GTX CONSTRUCTION ASSOCIATES, CORP		2501 BAYVIEW AVE WANTAGH NY 11793	02/21/2024	02/21/2029
DOL	DOL		HENRY WICKE A/K/A HENRY WICKE, JR.		36 OAKWOOD TRAIL S AL MONROE NY 10950	10/29/2025	10/29/2030
DOL	DOL		HERBERT CLEMEN		42 FOWLER AVENUE CORTLAND MANOR NY 10567	01/24/2023	01/24/2028
DOL	DOL		HERBERT CLEMEN		42 FOWLER AVENUE CORTLAND MANOR NY 10567	10/25/2022	10/25/2027
DOL	DOL	****6961	HUNTER ELEVATOR COMPANY, INC.		36 OAKWOOD TRAIL S AL MONROE NY 10950	10/29/2025	10/29/2030
DOL	DOL	****2397	ISLAND BREEZE MARINE, INC.		6400 BALTIMORE NATIONAL CANTONSVILLE MD 21228	10/24/2024	10/24/2029
DOL	DOL	****5010	J. LINDSLEY ENTERPRISE, LLC		1002 STATE ROUTE 176 FULTON NY 13069	07/30/2025	07/30/2030
DOL	DOL	****0241	J. LINDSLEY ROOFING, LLC		211 NORTH 2ND STREET FULTON NY 13069	07/30/2025	07/30/2030
DOL	DOL		J.M.J CONSTRUCTION		151 OSTRANDER AVENUE SYRACUSE NY 13205	11/21/2022	11/21/2027
DOL	DOL		J.R. NELSON CONSTRUCTION		531 THIRD STREET ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL		J.R. NELSON CONSTRUCTION		531 THIRD STREET ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL		J.R. NELSON CONSTRUCTION		531 THIRD STREET ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL		J.R. NELSON, LLC		531 THIRD STREET ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL		J.R. NELSON, LLC		531 THIRD STREET ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL		J.R. NELSON, LLC		531 THIRD STREET ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL		J.R.N COMPANIES, LLC		531 THIRD STREET ALBANY NY 12206	12/12/2022	12/12/2027
DOL	DOL		J.R.N COMPANIES, LLC		531 THIRD STREET ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL		J.R.N COMPANIES, LLC		531 THIRD STREET ALBANY NY 12206	10/25/2022	10/25/2027

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DOL	DOL	*****1147	J.R.N. CONSTRUCTION, LLC		531 THIRD ST ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL	*****1147	J.R.N. CONSTRUCTION, LLC		531 THIRD ST ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL		JAMES J. BAKER		7901 GEE ROAD CANASTOTA NY 13032	08/17/2021	08/17/2026
DOL	DOL		JAMES LINDSLEY		211 NORTH 2ND STREET FULTON NY 13069	07/30/2025	07/30/2030
DOL	DOL		JASON P. RACE		3469 STATE RT. 69 PERISH NY 13131	09/29/2021	09/29/2026
DOL	DOL		JASON P. RACE		3469 STATE RT. 69 PERISH NY 13131	02/09/2022	02/09/2027
DOL	DOL		JASON P. RACE		3469 STATE RT. 69 PERISH NY 13131	11/15/2022	11/15/2027
DOL	DOL		JASON P. RACE		3469 STATE RT. 69 PERISH NY 13131	03/01/2022	03/01/2027
DOL	DOL	*****7993	JBS DIRT, INC.		7901 GEE ROAD CANASTOTA NY 13032	08/17/2021	08/17/2026
DOL	DOL	*****2435	JEFFEL D. JOHNSON	JMJ7 AND SON	5553 CAIRNSTRAIL CLAY NY 13041	11/21/2022	11/21/2027
DOL	DOL		JEFFEL JOHNSON ELITE CARPENTER REMODEL AND CONSTRUCTION		C2 EVERGREEN CIRCLE LIVERPOOL NY 13090	11/21/2022	11/21/2027
DOL	DOL	*****2435	JEFFREY M. JOHNSON	JMJ7 AND SON	5553 CAIRNS TRAIL CLAY NY 13041	11/21/2022	11/21/2027
DOL	DOL		JENNIFER LINDSLEY		211 NORTH 2ND STREET FULTON NY 13069	07/30/2025	07/30/2030
DOL	DOL		JERRY DASTON		36 OAKWOOD TRAIL S AL MONROE NY 10950	10/29/2025	10/29/2030
DOL	DOL		JIM PLAUGHER		17613 SANTE FE LINE ROAD WAYNEFIELD OH 45896	07/16/2021	07/16/2026
DOL	DOL		JMJ7 & SON CONSTRUCTION, LLC		5553 CAIRNS TRAIL LIVERPOOL NY 13041	11/21/2022	11/21/2027
DOL	DOL		JMJ7 AND SONS CONTRACTORS		5553 CAIRNS TRAIL CLAY NY 13041	11/21/2022	11/21/2027
DOL	DOL		JMJ7 CONTRACTORS		7014 13TH AVENUE BROOKLYN NY 11228	11/21/2022	11/21/2027
DOL	DOL		JMJ7 CONTRACTORS AND SONS		5553 CAIRNS TRAIL CLAY NY 13041	11/21/2022	11/21/2027
DOL	DOL		JMJ7 CONTRACTORS, LLC		5553 CAIRNS TRAIL CLAY NY 13041	11/21/2022	11/21/2027
DOL	DOL		JOHN NAGLE A/K/A JOHN NAGLE, JR.		36 OAKWOOD TRAIL S AL MONROE NY 10950	10/29/2025	10/29/2030
DOL	DOL		JONATHAN DELISA		411 THEODORE FREMND AVE SUITE 206RYE NY 10580	09/03/2025	09/03/2030
DOL	DOL		JORGE FIGUEROA		411 THEODORE FRMND AVE SUITE 206RYE NY 10580	09/03/2025	09/03/2030
DOL	DOL		JORGE RAMOS		8970 MIKE GARCIA DR MANASSAS VA 20109	07/16/2021	07/16/2026
DOL	DA		JOSEPH DEMASCO		33 DOLLARD DRIVE NORTH BABYLON NY 11703	01/30/2026	01/30/2031
DOL	DA		JOSEPH DEMASCO		33 DOLLARD DRIVE NORTH BABYLON NY 11703	03/19/2025	03/19/2030
DOL	DOL		JOSEPH HALL		937 US ROUTE 11 CENTRAL SQUARE NY 13036	10/21/2024	10/21/2029
DOL	DOL	*****2271	JOSEPH HALL COMPANIES LLC		937 US ROUTE 11 CENTRAL SQUARE NY 13036	10/21/2024	10/21/2029
DOL	DOL		JOSEPH K. SALERNO		1010 TILDEN AVE UTICA NY 13501	07/24/2023	07/24/2028
DOL	DOL		JOSEPH K. SALERNO II		1010 TILDEN AVE UTICA NY 13501	07/24/2023	07/24/2028
DOL	DOL	*****5116	JP RACE PAINTING, INC. T/A RACE PAINTING		3469 STATE RT. 69 PERISH NY 13131	02/09/2022	02/09/2027
DOL	DOL	*****5116	JP RACE PAINTING, INC. T/A RACE PAINTING		3469 STATE RT. 69 PERISH NY 13131	11/15/2022	11/15/2027
DOL	DOL	*****5116	JP RACE PAINTING, INC. T/A RACE PAINTING		3469 STATE RT. 69 PERISH NY 13131	09/29/2021	09/29/2026
DOL	DOL	*****5116	JP RACE PAINTING, INC. T/A RACE PAINTING		3469 STATE RT. 69 PERISH NY 13131	03/01/2022	03/01/2027
DOL	DOL	*****5116	JP RACE PAINTING, INC. T/A RACE PAINTING		3469 STATE RT. 69 PERISH NY 13131	03/01/2022	03/01/2027
DOL	DOL		JRN CONSTRUCTION CO, LLC		1024 BROADWAY ALBANY NY 12204	11/07/2023	11/07/2028

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DOL	DOL	*****1147	JRN CONSTRUCTION, LLC		531 THIRD STREET ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL	*****1147	JRN CONSTRUCTION, LLC		531 THIRD STREET ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL	*****1147	JRN CONSTRUCTION, LLC		531 THIRD STREET ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL		JRN PAVING, LLC		531 THIRD STREET ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL		JRN PAVING, LLC		531 THIRD STREET ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL		JRN PAVING, LLC		531 THIRD STREET ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL		JULIUS AND GITA BEHREND		5 EMES LANE MONSEY NY 10952	11/20/2002	11/20/3002
DOL	DOL		KEAN INDUSTRIES, LLC		2345 RT. 52 SUITE 2NHOPEWELL JUNCTION NY 12533	12/18/2023	12/18/2028
DOL	DOL		KEVIN FUNEZ URBINA A/K/A KEVIN FUNEZ		1009 LYNDALE AVE TRENTON NJ 08629	12/16/2024	12/16/2029
DOL	DOL		KIMBERLY F. BAKER		7901 GEE ROAD CANASTOTA NY 13032	08/17/2021	08/17/2026
DOL	DOL	*****8760	KJ&J CONSTRUCTION, LLC		1009 LYNDALE AVE TRENTON NJ 08629	12/16/2024	12/16/2029
DOL	DOL		KMA GROUP II, INC.		29-10 38TH AVENUE LONG ISLAND CITY NY 11101	10/11/2023	10/11/2028
DOL	DOL	*****1833	KMA GROUP INC.		29-10 38TH AVENUE LONG ISLAND CITY NY 11101	10/11/2023	10/11/2028
DOL	DOL		KMA INSULATION, INC.		29-10 38TH AVENUE LONG ISLAND CITY NY 11101	10/11/2023	10/11/2028
DOL	DOL		KRIN HEINEMANN		2345 ROUTE 52, SUITE 2N HOPEWELL JUNCTION NY 12533	12/18/2023	12/18/2028
DOL	NYC		KULWANT S. DEOL		9-11 40TH AVENUE LONG ISLAND CITY NY 11101	09/26/2023	09/26/2028
DOL	DA	*****8816	LAKE CONSTRUCTION AND DEVELOPMENT CORPORATION		150 KINGS STREET BROOKLYN NY 11231	08/19/1998	08/19/2998
DOL	DOL		LEROY E. NELSON JR		531 THIRD ST ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL		LEROY E. NELSON JR		531 THIRD ST ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL		LEROY E. NELSON JR		531 THIRD ST ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL	*****3716	LIGHTNIN ELECTRIC INC.		3418 NORTHERN BLVD SUITE 5-27LONG ISLAND CITY NY 11101	12/13/2024	12/13/2029
DOL	AG	*****3291	LINTECH ELECTRIC, INC.		3006 TILDEN AVE BROOKLYN NY 11226	02/16/2022	02/16/2027
DOL	DOL		LIZETTE PONCE		411 THEODORE FREMND AVE SUITE 206RYE NY 10580	09/03/2025	09/03/2030
DOL	DOL		LOUIS A. CALICCHIA		1223 PARK ST. PEEKSKILL NY 10566	05/17/2021	05/17/2026
DOL	NYC	*****7516	MANCO ENTERPRISES OF NY, INC.		44-17 54TH DR. MASPETH NY 11378	04/01/2026	04/01/2031
DOL	NYC	*****1783	MANETTA ENTERPISES, INC. D/B/A MANETTA INDUSTRIES		44-17 54TH DR. MASPETH NY 11378	04/01/2026	04/01/2031
DOL	DA		MANUEL P TOBIO		150 KINGS STREET BROOKLYN NY 14444	08/19/1998	08/19/2998
DOL	DA		MANUEL TOBIO		150 KINGS STREET BROOKLYN NY 11231	08/19/1998	08/19/2998
DOL	DOL	*****1320	MJC MASON CONTRACTING, INC.		42 FOWLER AVENUE CORTLAND MANOR NY 10567	10/25/2022	10/25/2027
DOL	DOL	*****1320	MJC MASON CONTRACTING, INC.		42 FOWLER AVENUE CORTLAND MANOR NY 10567	01/24/2023	01/24/2028
DOL	DOL		MOHAMMAD MIAN		8269 21ST ST BELLEROSE NY 11426	12/22/2022	12/22/2027
DOL	NYC		NASEER CHAUDHRY		2349 BRAGG STREET BROOKLYN NY 11229	04/22/2025	04/22/2030
DOL	DOL	*****7790	NATIONAL BUILDING & RESTORATION CORP		1010 TILDEN AVE UTICA NY 13501	07/24/2023	07/24/2028
DOL	DOL	*****1797	NATIONAL CONSTRUCTION SERVICES, INC		1010 TILDEN AVE UTICA NY 13501	07/24/2023	07/24/2028
DOL	NYC		NAVIT SINGH		402 JERICO TURNPIKE NEW HYDE PARK NY 11040	08/10/2022	08/10/2027

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DOL	DOL		NELCO CONTRACTING, LLC		1024 BROADWAY ALBANY NY 12204	11/07/2023	11/07/2028
DOL	DA		NICHOLAS BARNETT		33 DOLLARD DR BABYLON NY 11703	03/04/2025	03/04/2030
DOL	DOL		NICHOLAS RAO		411 THEODORE FREMND AVE SUITE 206RYE NY 10580	09/03/2025	09/03/2030
DOL	DA		NICHOLAS T. ANALITIS		505 MANHATTAN AVE WEST BABYLON NY 11704	10/05/2023	10/05/2028
DOL	DOL		NICHOLE E. FRASER A/K/A NICHOLE RACE		3469 STATE RT. 69 PERISH NY 13131	03/01/2022	03/01/2027
DOL	DOL		NICHOLE E. FRASER A/K/A NICHOLE RACE		3469 STATE RT. 69 PERISH NY 13131	11/15/2022	11/15/2027
DOL	DOL		NICHOLE E. FRASER A/K/A NICHOLE RACE		3469 STATE RT. 69 PERISH NY 13131	09/29/2021	09/29/2026
DOL	DOL		NICHOLE E. FRASER A/K/A NICHOLE RACE		3469 STATE RT. 69 PERISH NY 13131	02/09/2022	02/09/2027
DOL	DOL		NIKOLA NTONI		3418 NORTHERN BLVD SUITE 5-27LONG ISLAND CITY NY 11101	12/13/2024	12/13/2029
DOL	NYC	****6971	NN CONSTRUCTION, INC.		2349 BRAGG STREET BROOKLYN NY 11229	04/22/2025	04/22/2030
DOL	NYC	****5643	NYC LINE CONTRACTORS, INC.		402 JERICO TURNPIKE NEW HYDE PARK NY 11040	08/10/2022	08/10/2027
DOL	DOL		PATRICK PENNACCHIO		2345 RT. 52 SUITE 2NHOPEWELL JUNCTION NY 12533	12/18/2023	12/18/2028
DOL	DOL		PATRICK PENNACCHIO		2345 RT. 52 SUITE 2NHOPEWELL JUNCTION NY 12533	12/18/2023	12/18/2028
DOL	DOL	****4168	PHANTOM CONSTRUCTION CORP.		95-27 116TH STREET QUEENS NY 11419	07/12/2024	07/12/2029
DOL	DOL	****4168	PHANTOM CONSTRUCTION CORP.		95-27 116TH STREET QUEENS NY 11419	05/28/2024	05/28/2029
DOL	DOL	****4772	R.W. LOBDELL CONSTRUCTION LLC		635 WEST DRYDEN ROAD FREEVILLE NY 13068	01/31/2025	01/31/2030
DOL	DOL	****2633	RAW POWER ELECTRIC CORP.		3 PARK CIRCLE MIDDLETOWN NY 10940	07/11/2022	07/11/2027
DOL	DOL		ROBBYE BISSEAR		89-51 SPRINGFIELD BLVD QUEENS VILLAGE NY 11427	01/11/2003	01/11/3003
DOL	DOL		ROMEO WARREN		161 ROBYN RD MONROE NY 10950	07/11/2022	07/11/2027
DOL	DOL		ROSA GARCIA		411 THEODORE FRMND AVE SUITE 206RYE NY 10580	09/03/2025	09/03/2030
DOL	DOL	****7172	RZ & AL INC.		198 RIDGE AVENUE VALLEY STREAM NY 11581	06/06/2022	06/06/2027
DOL	DOL		SAL FRESINA MASONRY CONTRACTORS, INC.		1935 TEALL AVENUE SYRACUSE NY 13206	07/16/2021	07/16/2026
DOL	DOL		SAL MASONRY CONTRACTORS, INC.		(SEE COMMENTS) SYRACUSE NY 13202	07/16/2021	07/16/2026
DOL	DOL	****9874	SALFREE ENTERPRISES INC		P.O BOX 14 2821 GARDNER RDPOMPEI NY 13138	07/16/2021	07/16/2026
DOL	DOL		SALVATORE A FRESINA A/K/A SAM FRESINA		107 FACTORY AVE P.O BOX 11070SYRACUSE NY 13218	07/16/2021	07/16/2026
DOL	DOL		SAM FRESINA		107 FACTORY AVE P.O BOX 11070SYRACUSE NY 13218	07/16/2021	07/16/2026
DOL	DA	****0476	SAMCO ELECTRIC CORP.		3735 9TH ST LONG ISLAND CITY NY 11101	01/05/2023	01/05/2028
DOL	DA		SILVANO TRAVALJA		3735 9TH ST LONG ISLAND CITY NY 11101	01/05/2023	01/05/2028
DOL	DOL	****0440	SOLAR GUYS INC.		8970 MIKE GARCIA DR MANASSAS VA 20109	07/16/2021	07/16/2026
DOL	NYC	****3661	SPANIER BUILDING MAINTENANCE CORP		200 OAK DRIVE SYOSSET NY 11791	03/14/2022	03/14/2027
DOL	DOL		STANADOS KALOGELAS		485 RAFT AVENUE HOLBROOK NY 11741	10/19/2021	10/19/2026
DOL	DOL	****3496	STAR INTERNATIONAL INC		89-51 SPRINGFIELD BLVD QUEENS VILLAGE NY 11427	08/11/2003	08/11/3003
DOL	DOL	****9528	STEEL-IT, LLC.		17613 SANTE FE LINE ROAD WAYNESFIELD OH 45896	07/16/2021	07/16/2026
DOL	DOL		STEVEN DELISA		411 THEODORE FREMND AVE SUITE 206RYE NY 10580	09/03/2025	09/03/2030
DOL	DOL	****9150	SURGE INC.		8269 21ST STREET BELLEROSE NY 11426	12/22/2022	12/22/2027

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DOL	DOL		SYED MUHAMMAD S. JAFRI A/K/A SHARRUKH JAFRI		4307 28TH AVE ASTORIA NY 11103	10/11/2024	10/11/2029
DOL	DOL		SYED RAZA		198 RIDGE AVENUE NY 11581	06/06/2022	06/06/2027
DOL	DOL		TARLOK SINGH		95-27 116TH STREET QUEENS NY 11419	05/28/2024	05/28/2029
DOL	DOL		TARLOK SINGH		95-27 116TH STREET QUEENS NY 11419	07/12/2024	07/12/2029
DOL	DOL	****4855	TECH INDUSTRIES LLC		20 HEATHER RIDGE ROAD TROY NY 12180	05/20/2025	05/20/2030
DOL	DOL	****9733	TERSAL CONSTRUCTION SERVICES INC		107 FACTORY AVE P.O BOX 11070SYRACUSE NY 13208	07/16/2021	07/16/2026
DOL	DOL		TERSAL CONTRACTORS, INC.		221 GARDNER RD P.O BOX 14POMPEI NY 13138	07/16/2021	07/16/2026
DOL	DOL		TERSAL DEVELOPMENT CORP.		1935 TEALL AVENUE SYRACUSE NY 13206	07/16/2021	07/16/2026
DOL	DOL	****2426	THE MATRUKH GROUP, INC.		4307 28TH AVE PO BOX 9082ASTORIA NY 11103	10/11/2024	10/11/2029
DOL	DOL		THOMAS LOBDELL		635 WEST DRYDEN ROAD FREEVILLE NY 13068	01/31/2025	01/31/2030
DOL	DOL		TIMOTHY PERCY		29807 ANDREWS ROAD BLACK RIVER NY 13612	10/17/2023	10/17/2028
DOL	DA	****1050	TRI STATE CONSTRUCTION OF NY CORP.		50-39 175TH PLACE FRESH MEADOWS NY 11365	03/28/2022	03/28/2027
DOL	DA	****4106	TRIPLE H CONCRETE CORP		2375 RAYNOR STREET RONKONKOMA NY 11779	08/04/2021	08/04/2026
DOL	DOL	****8485	TULA PLUMBING AND HEATING LLC		120 SEARS AVE ELMSFORD NY 10523	09/26/2025	09/26/2030
DOL	DOL	****8210	UPSTATE CONCRETE & MASONRY CONTRACTING CO INC		449 WEST MOMBASHA ROAD MONROE NY 10950	06/06/2022	06/06/2027
DOL	DOL		VINCENT CORRAO		PO BOX 393 NANUET NY 10954	09/17/2024	09/17/2029
DOL	DOL		WILLIAM A BELL		7307 WOODSIDE ROAD VICTOR NY 14564	05/06/2025	05/06/2030
DOL	DOL	****8266	WILLIAM CHRIS MCCLENDON	MCCLENDON ASPHALT PAVING	1646 FALLS STREET NIAGARA FALLS NY 14303	05/01/2023	05/01/2028
DOL	DOL		WILLIAM CHRIS MCCLENDON		1646 FALLS STREET NIAGARA FALLS NY 14303	05/01/2023	05/01/2028
DOL	DOL		WILLIAM SCRIVENS		4192 SIR ANDREW CIRCLE DOYELSTOWN PA 18902	07/18/2024	07/18/2029
DOL	DOL	****9494	WND CONSTRUCTION LLC		411 THEODORE FREMD AVENUE SUITE 206RYE NY 10580	09/03/2025	09/03/2030
DOL	DOL		XENOFON EFTHIMIADIS		29-10 38TH AVENUE LONG ISLAND CITY NY 11101	10/11/2023	10/11/2028

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SCOPE OF WORK

PART 1 - GENERAL

1.01 SUMMARY

- A. Specifically, within the General Construction Contract without limiting the intent of the drawings and specifications, include the following as part of the work, but not limited to:
- B. Base Bid - Site Improvements

PROJECT INITIATION & DEMOLITION

1. Submittals, Permits, schedules, and pre-construction coordination with Landscape Architect, Owner, and General Contractor.
2. Attend (1) Pre-construction meeting and include tentative schedule of work.
3. Confirm existing conditions on plans. Identify all underground utilities in work zone (Call 811).
4. Protect all structures and items including removals to salvage, see drawings.
5. Install temporary tree protection and erosion controls as shown on plans and other areas as needed.
6. Maintain access and egress to & throughout the duration of construction, including vehicular and pedestrian traffic control measures. Maintain a safe work environment and follow all local and state codes. Coordinate with Owner representative as to their weekly construction schedule.
7. Removal and disposal of all materials in a legal manner offsite as shown in removal plans.
8. Excavate to design depths, all areas as noted.

NEW CONSTRUCTION

General

9. Attend limited progress and closeout meetings with proper attendance.
10. Coordinate testing services with construction schedule, as provided by Owner.
11. Provide project work schedule and 2-week updates during the installation.
12. Provide Submittals for approval early in the project schedule.
13. Maintain As-built drawings for site utilities and electrical installations.

Sitework

14. Install subsurface drainage structures and pipes.
15. Construct sidewalks and granite curbing.
16. Construct Asphalt pavements and striping.
17. Construct brick masonry piers and footings.
18. Install varied landscape elements.
19. Install various site improvements and ADA compliant ramps.
20. Install helical pile decorative bollards as detailed.
21. Install amended soils for shrubs and tree plantings.

Site Utilities

22. Install electrical service panels and site light lighting conduits, poles/fixtures.
23. Install storm sewer structures and pipes.

Landscaping

24. Remove excess concrete and debris from beds, and scarify subsoil.
25. Backfill/prepare all plant beds with native topsoil & amendments.
26. Install plant material as stated in schedule on drawing.
27. Install shredded wood mulch.
28. Install – min. 8-12” topsoil, fine grade, seed, fertilize & straw mulch all disturbed areas for lawn restoration.

Closeout

29. Daily site cleanup and removal of debris.
30. Removal of erosion and sediment controls.
31. Project closeout documents, certifications, warranties, as-built mark-ups (utilities), payment applications, etc.

END OF SECTION

SECTION 011000

SUMMARY

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General Conditions, and other Division 1 Specification Sections, apply to this Section.

1.02 SECTION INCLUDES

- A. Design/Management Identification.
- B. Work covered by Contract Documents.
- C. Work under other Contracts.
- D. Contractor use of Premises.
- E. Occupancy Requirements.
- F. Coordination.

1.03 RELATED SECTIONS

- A. Section 013000 – Administration Requirements

1.04 DESIGN/MANAGEMENT IDENTIFICATION

OWNER

City of Rome
210 W. Liberty Street & 306 N. James Street
Rome, NY 13440

ENGINEERS/ARCHITECTS/LANDSCAPE ARCHITECTS/SURVEYORS

Delta Engineers, Architects, Landscape Architects and Surveyors, DPC
Michael Haas, RLA, Project Manager
860 Hooper Road
Endwell, NY 13760
Phone: 607-231-6631, Fax 607-231-6650

1.05 WORK COVERED BY CONTRACT DOCUMENTS

- A. 210 W. Liberty St. Lot & 306 N. James St. Lot
- B. Contract Documents, dated May 1, 2026, were prepared for the Project by Delta Engineers, Architects, and Surveyors, Endwell, New York.

- C. Single Prime Contract: The project will be constructed under a Single Prime Contract Agreement.
- D. The following Documents are specifically included and defined as integral to the Prime Contract:
 - 1. Bidding requirements, contract forms and conditions of the Contract.
- E. Drawing Index – see enumeration of drawings on the Cover Sheet, for the listing of drawings.
- F. Details not in the contract have been labeled “NIC” or “By Owner”. See Scope of Work for detailed description of work and work to be performed by the Owner.
- G. Definition of Extent of Prime Contract Work: The Contract Documents indicate the extent of the prime contract. Except where the Contract Drawings contain a more specific description, general names, and terminology on the Drawings and in the Technical Specification Sections described those specific elements of the Project.

1.06 ADDITIONAL NOTES TO CONTRACT DOCUMENTS

- A. The following notes are integral to each Prime Contract:
 - 1. All bidders are forewarned to review all information of the Contract Documents.
 - 2. Review Section 010110 Scope of Work for general work requirements of temporary construction activities and requirements in prime contractor’s scope of work.
 - 3. All contractors are responsible for the layout and survey of their own work or work requirements.
 - 4. All Contractors shall provide all temporary shoring, bracing, barricades, or protection systems necessary to expedite the work requirements including maintenance and worker safety.
 - 5. All contractors are responsible for the safety of their own workers, subcontractors, work area, and other personnel on site. Each contractor is responsible for maintaining a safe work site and utilizing best safety procedures.
 - 6. In case of discrepancy between the Drawings and Specifications, interpretation shall be given preference in the following order, with later dates taking precedence over earlier dates:
 - a. Addenda
 - b. Amendments to the Drawings
 - c. Amendments to the Specifications
 - d. Drawings
 - e. Schedules, diagrams take precedence over other data shown on the drawings.
 - f. Notes take precedence over other data shown on the drawings.
 - g. Specifications
 - 7. If discrepancies are found between the plans and specifications, notify the Architect/Engineer in a Request for Information (RFI) to be addressed in an Addendum during the bid. Contractor to verify quantities.

1.07 ALL CONTRACTS

- A. Extent of Contract: Unless the Contract Documents contain a more specific description of the Work, names, and terminology on Drawings and in Specification Sections determine which contract includes a specific element of Project.

1. Unless otherwise indicated, the Work described in this section for each contract shall be complete systems and assemblies, including products, components, accessories, and installation required by the Contract Documents.
 2. Local custom and trade-union jurisdictional settlements do not control the scope of the work of the contract. When a potential jurisdictional dispute or similar interruption of work is first identified or threatened, affected contractors shall negotiate a reasonable settlement to avoid or minimize interruption and delays.
 3. Cutting and patching for the Work of each contract shall be provided by each contract or for its own Work.
 4. Within ten (10) working days after notice of award has been received from Owner, submit a preliminary horizontal bar-chart schedule showing construction operations sequenced and coordinated with overall construction.
- B. Substitutions: All Contractors shall cooperate with other contractors involved to coordinate approved substitutions with remainder of the Work.
- C. Temporary Facilities and Controls: In addition to specific responsibilities for temporary facilities and controls indicated in this Section and in Division 1 Section “Temporary Facilities and Controls,” each contractor is responsible for the following:
1. Its own storage and fabrication sheds.
 3. Temporary enclosures for its own construction activities.
 5. Progress cleaning of its own areas on a daily basis.
 6. Secure lockup of its own tools, materials, and equipment.
 7. Construction aids and miscellaneous services and facilities necessary exclusively for its own construction activities.

1.08 GENERAL CONTRACT WORK

- A. Furnish and install all labor, material, supervision, equipment, scaffolding, layout, engineering, deliveries, trucking, hoisting, rigging, shop drawings, submittals, and all other items related and required to complete all General Contract Work in accordance with the Contract Documents and all applicable codes having jurisdiction.
- B. The Contractor represents they have expertise in the performance of Work for this trade and assures all items to be complete, functional, and installed in accordance with the best practices consistent with premium quality material and workmanship. The Scope of Work includes, but is not limited to the following:
1. Provide complete the work of Division 0 – Bidding Requirements, Contract Forms, Conditions of the Contract and Division 1 - General Requirements unless stated otherwise. The listing of drawings and specifications is intended as a guide and does not relieve the Contractor of the responsibility of reviewing all drawings and specifications for bidding and coordinating with other contractors during construction.
 2. Provide and complete all work (As it pertains to the Work of this Contract) shown on Landscape Architecture (“L”) Drawings unless stated otherwise.
 3. Provide the complete work of the following specification division as it related to the General Contract, unless otherwise noted:

DIVISION 02 – EXISTING CONDITIONS
DIVISION 03 – CONCRETE
DIVISION 04 – MASONRY
DIVISION 06 – WOOD

DIVISION 31 – EARTHWORK
DIVISION 32 – EXTERIOR IMPROVEMENTS

PART 2 - PRODUCTS (See drawings, schedules and product cut sheets)

PART 3 - EXECUTION

3.01 WORK SEQUENCE

- A. It is intended that the Work of this Project will be performed in one phase (refer to Specification Section 013100 – Schedule) to provide the least possible interference to the activities of the Center, programs, and offices. Each parking lot can proceed simultaneously or tandem to each other. The N. Jamse Street Lot will need to be coordinated with City Police and Courts to give proper notification of the lot closure.
- B. Work hours shall be between the hours of 7:00 AM and 5:00 PM daily, Monday through Friday except when it interferes with the owners' activities. Activity and access shall be confined to the Sites shown in the plans and necessary staging. All exit and emergency access shall be maintained at all times. Any work that requires disruption to the entry/exits, utilities, etc., shall be coordinated with and approved by the Owner representative. Shift work on weekends may occur with the permission the Owner representative.
- C. Should overtime or second shift work be required by any Contractor to ensure the completion within the specified (phased) schedule, all costs for this work is the responsibility of that Contractor.

3.02 PRIME CONTRACTOR USE OF PREMISES

- A. General: The Contractors shall limit their use of the premises to the work areas indicated.
- B. Use of the Site: Limit use of the premises to work in areas indicated. Confine operations to areas within contract limits indicated. Do not disturb portions of the site beyond the areas in which the Work is indicated.
 - 1. Driveways and Entrances: always Keep temporary driveways and entrances serving the premises clear and available to emergency vehicles. Do not use these areas for parking or storage of materials. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
 - 2. Contractors will be instructed to use designated staging/parking areas before start of construction.

END OF SECTION

SECTION 013000

ADMINISTRATIVE REQUIREMENTS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Coordination and project conditions.
- B. Field engineering.
- C. Preconstruction meeting.
- D. Progress meetings.
- E. Cutting and patching.
- F. Special procedures.

1.02 COORDINATION AND PROJECT CONDITIONS

- A. Coordinate scheduling, submittals, and Work of various sections of Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.
- B. Verify utility requirements and characteristics of operating equipment are compatible with available utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, operating equipment.

1.03 FIELD ENGINEERING

- A. Protect survey control points prior to starting site work; preserve permanent reference points during construction. Replace dislocated survey control points based on original survey control. Make no changes without prior written notice to Landscape Architect.
- B. Owner has located survey control and reference points. Make every effort to protect and maintain these pins or markers. Promptly notify Landscape Architect of discrepancies discovered.
- C. Control datum for survey is shown on Drawings. Use known elevation if datum not shown. Or contact surveyor used by Engineer to establish control.
- D. Maintain complete and accurate log of control and survey work as Work progresses.
- E. On completion of major site improvements, prepare certified survey (as-builts) illustrating dimensions, locations, angles, and elevations of construction and site work.

1.04 PRE-CONSTRUCTION MEETING

- A. Owner, Landscape Architect, Engineer(s), Construction Manager, General Contractor, Landscape Contractor, and/or Electrical Contractor will schedule meeting after Notice of Award.
- B. Attendance Required: Owner, Landscape Architect, Engineer(s), Construction Manager, General Contractor, and/or Sub-Contractor(s).
- C. Agenda:
 - 1. Execution of Owner-Contractor Agreement.
 - 2. Submission of insurance certificates.
 - 3. Distribution of additional Contract Documents.
 - 4. Submission of list of Subcontractors, list of products, schedule of values, and progress schedule.
 - 5. Designation of personnel representing parties in Contract, and Landscape Architect.
 - 7. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
 - 8. Scheduling.
 - 9. Staging and work access. Temporary utilities.
 - 10. Application for payment procedures.
 - 11. Procedures for testing.
- D. Landscape Architect/Engineer will record minutes and distribute copies to participants, with two copies to Contractor, Owner, and those affected by decisions made.

1.05 PROGRESS MEETINGS

- A. Schedule and administer meetings throughout progress of the Work at maximum bi-weekly intervals.
- B. Owner/Landscape Architect will make arrangements for meetings, prepare agenda with copies for participants and preside at meetings.
- C. Attendance Required: Owner, Landscape Architect, Engineer(s), major subcontractors, as appropriate to agenda topics for each meeting.
- D. Agenda:
 - 1. Review minutes of previous meetings.
 - 2. Review of Work progress.
 - 3. Field observations, problems, and decisions.
 - 4. Identification of problems impeding planned progress.
 - 5. Review of submittals schedule and status of submittals.
 - 6. Review of delivery schedules.
 - 7. Maintenance of progress schedule.
 - 8. Corrective measures to regain projected schedules.
 - 9. Planned progress during succeeding work period.
 - 10. Coordination of projected progress.
 - 11. Maintenance of quality and work standards.
 - 12. Effect of proposed changes on progress schedule and coordination.
 - 13. Other business relating to Work.
- E. Landscape Architect/Engineer will record minutes and distribute copies to participants, with two copies to General Contractor, Owner, All Prime Contractors and those affected by decisions made.

1.06 CONSTRUCTION REVIEW MEETINGS/SITE VISITS

- A. Construction Review Visits may occur at (but not limited to) the following intervals:
 - 1. Installation of Erosion Controls.
 - 2. Excavation, installation of Subgrade Materials, and Rough Grading of areas.
 - 3. Layout of new facilities & structures.
 - 4. 30%, 75% and 95% facility and pavement installations.
 - 5. Plant materials delivery and installation.
 - 6. Preliminary and Final “Punch-List” inspections.

- B. Attendance Required: Attendance Required: Owner, Landscape Architect, Engineer(s), major subcontractors, as appropriate to agenda topics for each meeting.

PART 2 - PRODUCTS – N/A

PART 3 - EXECUTION

3.01 CUTTING AND PATCHING

- A. Employ original and skilled and experienced installer to perform cutting and patching.

- B. Submit written request in advance of cutting or altering elements affecting:
 - 1. Structural integrity of element.
 - 2. Integrity of weather-exposed or moisture-resistant elements.
 - 3. Efficiency, maintenance, or safety of element.
 - 4. Visual qualities of sight exposed elements.
 - 5. Work of Owner or separate contractor.

- C. Execute cutting, fitting, and patching including excavation and fill, to complete Work, and to:
 - 1. Fit the several parts together, to integrate with other Work.
 - 2. Uncover Work to install or correct ill-timed Work.
 - 3. Remove and replace defective and non-conforming Work.
 - 4. Remove samples of installed Work for testing.
 - 5. Provide openings in elements of Work for penetrations of mechanical and electrical Work.

- D. Execute work by methods to avoid damage to other Work, and to provide proper surfaces to receive patching and finishing.

- E. Cut masonry and concrete materials using masonry saw or core drill made for precision of task.

- F. Restore Work with new products in accordance with requirements of Contract Documents.

- G. Fit Work tight to pipes, sleeves, ducts, conduit, curbs, and other penetrations through surfaces.

- H. Identify hazardous substances or conditions exposed during the Work to Owner and Landscape Architect for decision or remedy.

3.02 SPECIAL PROCEDURES

- A. Materials: As specified in product sections; match existing with new products and salvaged products for new and extending work.
- B. Cut, move, or remove items as necessary for access to alterations and renovation Work. Replace and restore at completion.
- C. Remove unsuitable material not marked for salvage, including rotted wood, corroded metals, and deteriorated masonry and concrete. Replace materials as specified for finished Work.
- D. Remove debris and abandoned items from area and from concealed spaces.
- E. Prepare surface and remove surface finishes to permit installation of new work and finishes.
- F. Remove, cut, and patch Work in manner to minimize damage and to permit restoring products and finishes to original or specified condition.
- G. Patch or replace portions of existing surfaces which are damaged, lifted, discolored, or showing other imperfections.
- H. Finish surfaces, joint fill, or other as specified in individual product sections.

END OF SECTION

SECTION 013100

PROJECT SCHEDULE

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Work sequence.
 - 2. Construction Schedule.

- B. Related Sections
 - 1. Section 010110: Scope of Work.
 - 2. Section 013000: Administrative Requirements.

1.02 WORK SEQUENCE

- A. Project Start:
 - 1. Commence construction activity at the site as soon after contract award as required to comply with specified Construction Schedule, unless noted otherwise in Schedule.
 - 2. Schedule material deliveries to correspond with starting dates so that materials are on site on required start date.

- B. Coordination
 - 1. Schedule all construction activities at the Site to avoid interference with Owner’s operations and to meet specified completion dates. It is the responsibility of the Prime Contractor to meet Completion Schedules.
 - 2. Review Contract Document requirements in relationship to requirements for other Contractors.
 - 3. Insure all equipment, fittings, pipe, and similar items required are on hand before interrupting or shutting-down existing systems.
 - 4. Notify all inspectors and representatives of Utility Companies, Landscape Architect, Owner, and similar parties by letter in advance of required changeovers, tie-ins, removals, and similar operations.

- C. Construction Schedule – General Construction *
 - 1. Bid Authorization date (by city): May 28, 2026
 - 2. Bid Notice date: June 02, 2026
 - 3. Bid Due Date: June 25, 2026
 - 4. Bid Award Date: July 09, 2026
 - 5. Notice to Proceed: Mid-July 2026
 - 2. Pre-Construction Meeting: July 30, 2026
 - 3. Commence Work: July 27, 2026
 - 4. Construction Substantially Complete: October 2026
 - 5. Final completion of work & punch list items: Late October 2026
 - 6. Project Closeout: Late October 2026
 - Project Schedule is tentative, and dependent upon receipt of Performance Bond, Schedule and signed Contract.

PART 2 - EXECUTION - NA

END OF SECTION

SECTION 013300
SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Submittal procedures.
- B. Construction progress schedules.
- C. Proposed products list.
- D. Product data.
- E. Shop drawings.
- F. Samples.
- G. Design data.
- H. Test reports.
- I. Certificates.
- J. Manufacturer's instructions.
- K. Manufacturer's field reports.
- L. Erection drawings.
- M. Construction photographs.

1.02 SUBMITTAL PROCEDURES

- A. Transmit each submittal with contractor's standard transmittal sheet. Submittals where practical shall be submitted using the electric submittal system provided by the Architect/Engineer (ie: Newforma). Architect/Engineer will provide a link to this system.
- B. Sequentially number transmittal forms. Mark revised submittals with original number and sequential alphabetic suffix.
- C. Identify Project, Contractor, subcontractor and supplier, pertinent drawing and detail number, and specification section number, appropriate to submittal.
- D. Apply Contractor's date stamp signed or initialed certifying that review, approval, verification of products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with requirements of the Work and Contract Documents.

- E. Schedule submittals to expedite Project and deliver to Landscape Architect at provided email address. Coordinate submission of related items.
- F. For each submittal for review, allow 3-5 days excluding delivery time to and from Contractor.
- G. Identify variations from Contract Documents and product or system limitations which may be detrimental to successful performance of completed Work.
- H. Allow space on submittals for Contractor and Landscape Architect review stamps.
- I. When revised for resubmission, identify changes made since previous submission.
- J. Distribute copies of reviewed submittals as appropriate. Instruct parties to promptly report inability to comply with requirements.
- K. Incomplete submittals or submittals not requested will not be recognized or processed.

1.03 CONSTRUCTION PROGRESS SCHEDULES

- A. Submit initial schedule within 5 days after date of Notice to Proceed.
- B. Submit revised Progress Schedule with each Application for Payment or scheduled project meeting.
- C. Distribute copies of reviewed schedules to Project site file, subcontractors, suppliers, and other concerned parties.
- D. Instruct recipients to promptly report, in writing, problems anticipated by projections indicated in schedules.
- E. Submit computer generated horizontal bar chart with separate line for each section of Work, identifying first workday of each week.
- F. Show complete sequence of construction by activity, identifying Work of separate stages and other logically grouped activities. Indicate early and late start, early and late finish, float dates, and duration.
- G. Indicate estimated percentage of completion for each item of Work at each submission.
- H. Submit separate schedule of submittal dates for shop drawings, product data, and samples, including Owner furnished products and products identified under Allowances, and dates reviewed submittals will be required from Landscape Architect/Engineer. Indicate decision dates for selection of finishes.
- I. Revisions to Schedules:
 - 1. Indicate progress of each activity to date of submittal, and projected completion date of each activity.
 - 2. Identify activities modified since previous submittal, major changes in scope, and other identifiable changes.

1.04 PROPOSED PRODUCTS LIST

- A. Within 10 days after date of Notice to Proceed, submit list of major products proposed for use, with name of manufacturer, trade name, and model number of each product. Note products to be supplied by Owner.
- B. For products specified only by reference standards, give manufacturer, trade name, model or catalog designation, and reference standards.

1.05 PRODUCT DATA

- A. Product Data: Submit to Construction Manager, Landscape Architect for review for limited purpose of checking for conformance with information given and design concept expressed in Contract Documents. Provide copies and distribute in accordance with SUBMITTAL PROCEDURES article 1.02 and for record documents purposes described in Section 017000.
- B. Submit digital copies. Engineer and/or Landscape Architect will retain and respond with status of approval.
- C. Mark (highlight or circle) each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
- D. After review distribute in accordance with Submittal Procedures article above.
- E. Provide duplicate copies of delivery slips of aggregates, concrete, pavers, and other paving materials to Owner and Landscape Architect on weekly basis.

1.06 SHOP DRAWINGS

- A. Product Data: Submit to Landscape Architect for review for limited purpose of checking for conformance with information given and design concept expressed in Contract Documents. Provide copies and distribute in accordance with SUBMITTAL PROCEDURES article and for record documents purposes described in Section 017000.
- B. Submit digital copies. Engineer and/or Landscape Architect will retain and respond with status of approval.
- C. Mark (highlight or circle) each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
- D. After review distribute in accordance with Submittal Procedures article above.

1.07 SAMPLES

- A. Samples: Submit to Construction Manager, Landscape Architect, Owner for review for limited purpose of checking for conformance with information given and design concept expressed in Contract Documents.
- B. Include identification on each sample, with full Project information.

- C. Submit number of samples specified in individual specification sections; Landscape Architect or Owner will retain samples.
- D. Reviewed samples which may be used in the Work are indicated in individual specification sections.
- E. Samples will not be used for testing purposes unless specifically stated in specification section.

1.08 DESIGN DATA

- A. Submit pavement and concrete design for Landscape Architect's knowledge as contract administrator or for Owner.
- B. Submit for information for limited purpose of assessing conformance with information given and design concept expressed in Contract Documents.

1.09 TEST REPORTS

- A. Submit for Landscape Architect's knowledge as contract administrator or for Owner.
- B. Submit test reports for information for limited purpose of assessing conformance with information given and design concept expressed in Contract Documents. Proctor density test reports will be required for compaction of subbase aggregates below pavers. As supplied by the Owner.

1.10 CERTIFICATES

- A. When specified in individual specification sections, submit certification by manufacturer, installation/application subcontractor, or Contractor to Landscape Architect, in quantities specified for Product Data.
- B. Indicate material or product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.
- C. Certificates may be recent or previous test results on material or Product, but must be acceptable to Landscape Architect.

1.11 MANUFACTURER'S INSTRUCTIONS

- A. When specified in individual specification sections, submit printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, to Construction Manager and Landscape Architect for delivery to Owner in quantities specified for Product Data.
- B. Indicate special procedures, perimeter conditions requiring special attention, and special environmental criteria required for application or installation.

1.12 LANDSCAPE ARCHITECT'S ACTION

- A. Except for submittals for the record or information, where action and return is required, the Construction Manager and Landscape Architect and/or his consultant will review each submittal, mark to indicate action taken, and return to Contractor.

1. Compliance with specified characteristics is the Contractor's responsibility.
- B. Action Stamp: The Landscape Architect/Engineer will stamp each submittal with a uniform, action stamp. The Landscape Architect/Engineer will mark the stamp appropriately to indicate the action taken, as follows:
1. Final Unrestricted Release: When the Landscape Architect/Engineer marks a submittal "Reviewed" the Work covered by the submittal may proceed provided it complies with requirements of the Contract Documents. Final payment depends on that compliance.
 2. Final-But-Restricted Release: When the Landscape Architect/Engineer marks a submittal "Reviewed as Noted," the Work covered by the submittal may proceed provided it complies with notations or corrections on the submittal and requirements of the Contract Documents. Final payment depends on that compliance.
 3. Returned for Re-submittal: When the Landscape Architect/Engineer marks a submittal "Revise and Resubmit," do not proceed with Work covered by the submittal, including purchasing, fabrication, delivery, or other activity. Revise or prepare a new submittal according to the notations; resubmit without delay. Repeat if necessary, to obtain different action mark.
 - a. Do not use, or allow others to use, submittals marked "Revise and Resubmit" at the Project Site or elsewhere where Work is in progress.
 4. Rejected: When the Landscape Architect/Engineer marks a submittal "Rejected," do not proceed with any Work covered by the submittal, including purchasing, fabrication, delivery, or other activity. Prepare a new submittal conforming to the product characteristics specified by the contract documents; resubmit without delay. Repeat if necessary, to obtain different action mark.
 5. Submit Specified Item: When submittal is marked "Submit Specified Item", the Contractor shall immediately resubmit the specified item.
- C. Other Action: Where a submittal is primarily for information or record purposes, special processing or other activity, the submittal will be returned marked "Action Not Required".

PART 2 - PRODUCTS

Not Used.

PART 3 - EXECUTION

Not Used.

END OF SECTION

SECTION 014000
QUALITY REQUIREMENTS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Quality control and control of installation.
- B. Tolerances
- C. References.
- D. Testing and inspection services.
- E. Manufacturers' field services.
- F. Examination.
- G. Preparation.

1.02 QUALITY CONTROL AND CONTROL OF INSTALLATION

- A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
- B. Comply with manufacturers' instructions, including each step-in sequence.
- C. When manufacturers' instructions conflict with Contract Documents, request clarification from Landscape Architect, Engineer and/or his consultant before proceeding.
- D. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- E. Perform Work by persons qualified to produce required and specified quality.
- F. Verify field measurements are as indicated on Shop Drawings or as instructed by manufacturer.
- G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, or disfigurement.

1.03 TOLERANCES

- A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.

- B. Comply with manufacturers' tolerances. When manufacturers' tolerances conflict with Contract Documents, request clarification from Landscape Architect, Engineer and/or his consultant before proceeding.
- C. Adjust products to appropriate dimensions; position before securing products in place.

1.04 REFERENCES

- A. For products or workmanship specified by association, trade, or other consensus standards, comply with requirements of standard, except when more rigid requirements are specified or are required by applicable codes.
- B. Obtain copies of standards where required by product specification sections.
- C. When specified reference standards conflict with Contract Documents, request clarification from Landscape Architect, Engineer and/or his consultant before proceeding.
- D. Neither contractual relationships, duties, nor responsibilities of parties in Contract nor those of Landscape Architect, Engineer and/or his consultant shall be altered from Contract Documents by mention or inference otherwise in reference documents.

1.05 TESTING AND INSPECTION SERVICES

- A. The Owner will employ and pay for specified services of an independent firm to perform testing and inspection of:
 - 1. Density of compaction of aggregate base course below pavements.
 - 2. Concrete cylinders for strength testing.
- B. The independent firm will perform tests, inspections and other services specified in individual specification sections and as required by Landscape Architect/Engineer.
 - 1. Laboratory: Authorized to operate in State of New York.
 - 2. Laboratory Staff: Maintain full time registered Engineer on staff to review services.
 - 3. Testing Equipment: Calibrated at reasonable intervals with devices of accuracy traceable to National Bureau of Standards or accepted values of natural physical constants.
- C. Testing, inspections, and source quality control may occur on or off project site. Perform off-site testing as required by Landscape Architect/Engineer or Owner.
- D. Reports will be submitted by independent firm to Construction Manager, Landscape Architect, Engineer and/or his consultant and Contractor, in duplicate, indicating observations and results of tests and indicating compliance or noncompliance with Contract Documents.
- E. Cooperate with independent firm; furnish samples of materials, design mix, equipment, tools, storage, safe access, and assistance by incidental labor as requested.
 - 1. Notify Construction Manager, Landscape Architect and independent firm 24 hours prior to expected time for operations requiring services.
 - 2. Make arrangements with independent firm and pay for additional samples and tests required for Contractor's use.
- F. Testing and employment of testing agency or laboratory shall not relieve Contractor of obligation to perform Work in accordance with requirements of Contract Documents.

PART 2 - PRODUCTS

Not Used

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify existing site conditions and substrate surfaces are acceptable for subsequent Work. Beginning new Work means acceptance of existing conditions.
- B. Verify existing substrate is capable of structural support, installation or attachment of new Work being applied or attached.
- C. Examine and verify specific conditions described in individual specification sections.
- D. Verify utility services are available, of correct characteristics, and in correct locations.

3.02 PREPARATION

- A. Clean substrate surfaces prior to applying next material or substance.
- B. Seal cracks or openings of substrate prior to applying next material or substance.
- C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying new material or substance in contact or bond.

END OF SECTION

SECTION 015000

TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Construction Facilities:
 - 1. Field offices, restrooms and sheds.
 - 2. Vehicular access.
 - 3. Parking.
 - 4. Progress cleaning and waste removal.
 - 5. Traffic regulation.

- B. Temporary Controls:
 - 1. Barriers.
 - 2. Enclosures and fencing.
 - 3. Protection of the Work.
 - 4. Water control.
 - 5. Dust control.
 - 6. Erosion and sediment control.
 - 7. Noise control.
 - 8. Pest control.
 - 9. Pollution control.
 - 10. Rodent control.

- C. Removal of utilities, facilities, and controls.

1.02 FIELD OFFICES, RESTROOMS AND SERVICES

- A. Additional staging must be coordinated with Owner representative and Landscape Architect.

- B. Composting toilets is available--for use by all laborers. Location and security must be coordinated with Owner representative.

- C. Power and water for construction purposes are available and will be made available to the Contractor. The Contractor shall make all necessary connections and shall coordinate connections with the Owner representative.

1.03 VEHICULAR ACCESS

- A. Construct temporary all-weather access roads from public thoroughfares to serve construction area, of width and load bearing capacity to accommodate unimpeded traffic for construction purposes.

- B. Coordinate street access from N. Washington St. & Patrolman's Way with Owner representative and Police Chief. Extend and relocate vehicular access as Work progress requires, provide traffic control barrier and signs as necessary for unimpeded traffic flow.

- C. Provide unimpeded access for emergency and staff vehicles until paving occurs.

- D. Provide and maintain access to main buildings, adjacent parking, and pavement areas free of obstructions unless noted on Plans.
- E. Provide means of removing mud or debris from vehicle wheels before entering parking lot, drive and streets. Clean pavements daily.

1.04 PARKING

- A. Use of designated existing on-site, on-street and driveways used for construction traffic is not permitted. Tracked vehicles not allowed on adjacent paved street areas unless for repairs.
- B. Do not allow heavy vehicles or construction equipment in new paved parking areas or main paved pathways.
- C. Permanent Pavements and Parking Facilities:
 - 1. Prior to Substantial Completion, bases for permanent roads and parking areas may be used for construction traffic.
 - 2. Avoid traffic loading beyond paving design capacity. Tracked vehicles not allowed unless certified by Engineer.
 - 3. Use of permanent parking structures is not permitted unless coordinated with Owner representatives.
- D. Maintenance:
 - 1. Maintain traffic and parking areas in sound condition free of excavated material, construction equipment, products, mud, snow, and ice.
 - 2. Maintain existing and permanent paved areas used for construction; promptly repair breaks, potholes, low areas, standing water, and other deficiencies, to maintain paving and drainage in original, or specified, condition.
- E. Removal, Repair:
 - 1. Remove temporary materials and construction when permanent paving is usable.
 - 2. Remove underground work and foundation materials to depths noted on drawings; fill and grade site as specified.
- F. Repair existing and permanent facilities damaged by use, to original and/or specified condition.
- G. Mud from Site Vehicles: Provide means of removing mud and debris from vehicle wheels before entering on-site drives or streets. Clean pavements daily.

1.05 PROGRESS CLEANING AND WASTE REMOVAL

- A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in clean and orderly condition on a daily basis.
- B. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing spaces.
- C. Broom and vacuum clean areas prior to start of surface finishing and continue cleaning to eliminate

dust.

- D. Collect and remove waste materials, debris, and rubbish from site weekly, especially before weekend services, and dispose off-site.
- E. Remove grease, dust, dirt, stains, labels, fingerprints and other foreign materials from sight-exposed interior and exterior finished surfaces;. Polish surfaces so designated to shine finish.
- F. Repair, patch and touch up marred surfaces to specified finish to match adjacent surfaces.
- G. Maintain cleaning until project, or portion thereof, is re-occupied by Owner.

1.06 TRAFFIC REGULATION

- A. Signs, Signals, and Devices:
 - 1. Post Mounted and Wall Mounted Traffic Control and Informational Signs: As approved by authority having jurisdiction.
 - 2. Traffic Cones and Drums, Flares and Lights: As approved by authority having jurisdiction.
 - 3. Flag person Equipment: As required by authority having jurisdiction.
- B. Flag Persons: Provide trained and equipped flag persons to regulate traffic when construction operations or traffic encroach on public traffic lanes.
- C. Flares and Lights: Use flares and lights during hours of low visibility to delineate traffic lanes and to guide traffic.
- D. Traffic Signs and Signals:
 - 1. Provide signs at approaches to site and on site, at crossroads, detours, parking areas, and elsewhere as needed to direct construction and affected public traffic.
 - 2. Provide, operate, and maintain traffic control to direct and maintain orderly flow of traffic in areas under Contractor's control, and areas affected by Contractor's operations.
 - 3. Relocate as Work progresses, to maintain effective traffic control.
- E. Removal:
 - 1. Remove equipment and devices when no longer required. Repair damage caused by installation.
 - 2. Remove post settings to depth of 2 feet.

1.07 BARRIERS

- A. Provide barriers to prevent unauthorized entry to construction areas, and to protect existing facilities and adjacent properties from damage from construction operations and demolition. City staff to have access within construction areas with proper safety wear.
- B. Provide protection for plants designated to remain. Replace damaged plants.
- C. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

1.08 ENCLOSURES AND FENCING

- A. Construction: Commercial grade temporary chain link fence sections.
- B. Provide minimum 4 feet high chain link fence to restrict access to construction activity and site; equip with vehicular and pedestrian gates, or temporary openings.

1.09 WATER CONTROL

- A. Grade site to drain. Maintain excavations free of water. Provide, operate, and maintain pumping equipment.
- B. Protect sites from puddling or running water. Provide water barriers as required to protect sites and adjacent streets from soil erosion.

1.10 DUST CONTROL

- A. Execute Work by methods to minimize raising dust from construction operations.

1.11 EROSION AND SEDIMENT CONTROL

- A. Plan and execute construction by methods to control surface drainage from cuts and fills, from borrow and waste disposal areas. Prevent erosion and sedimentation.
- B. Minimize surface area of bare soil, sand or gravel exposed at one time.
- C. Provide temporary measures including berms, dikes, and drains, and other devices to prevent water flow.
- D. Periodically inspect earthwork to detect evidence of erosion and sedimentation; promptly apply corrective measures.

1.12 NOISE CONTROL

- A. Provide methods, means, and facilities to minimize noise from affecting residential areas produced by construction operations.

1.13 POLLUTION CONTROL

- A. Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious, toxic substances, and pollutants produced by construction operations.
- B. Comply with pollution and environmental control requirements of authorities having jurisdiction.

PART 2 - PRODUCTS

PART 3 - EXECUTION

END OF SECTION

SECTION 017000

EXECUTION and CLOSEOUT REQUIREMENTS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Closeout procedures.
- B. Final cleaning.
- C. Protecting installed construction.
- D. Project record documents.
- E. Operation and maintenance data.
- F. Product warranties and product bonds.

1.02 CLOSEOUT PROCEDURES

- A. Submit written certification that Contract Documents have been reviewed, Work has been inspected, and that Work is complete in accordance with Contract Documents and ready for Landscape Architect's review.
- B. Provide manufacturer's warranty documents to Landscape Architect and Owner.
- C. Submit final Application for Payment identifying total adjusted Contract Sum, previous payments, and sum remaining due.

1.03 SUBSTANTIAL COMPLETION

- A. Preliminary Procedures: Before requesting inspection for certification of Substantial Completion, complete the following. List exceptions in the request.
 - 1. In the Application for Payment that coincides with, or first follows, the date Substantial Completion is claimed, show 100 percent completion for the portion of the Work claimed as substantially complete (Curbs, asphalt pavements, concrete pavements, striping, stormwater improvements, etc.).
 - a. Include supporting documentation for completion as indicated in these Contract Documents and a statement showing an accounting of changes to the Contract Sum.
 - b. If 100 percent completion cannot be shown, include a list of incomplete items, the value of incomplete construction, and reasons the Work is not complete.
 - 2. Submit specific warranties, workmanship bonds, maintenance agreements, final certifications, and similar documents.
 - 3. Submit final record information.
 - 4. Complete final cleanup requirements, including pavement patching and cleaning.
 - 5. Touch up and otherwise repair and restore marred, exposed finishes.
- B. Inspection Procedures: Upon receipt of a request for inspection, the Landscape Architect will either proceed with inspection or advise the Contractor of unfilled requirements. The Landscape

Architect will prepare the Punchlist of Substantial Completion following inspection or advise the Contractor of corrective actions that must be completed before the certificate will be issued.

1. The Landscape Architect will repeat inspection when requested and assured that the Work is substantially complete.
2. Results of the completed inspection will form the basis of requirements for final acceptance.

1.04 FINAL ACCEPTANCE

- A. Each Contractor shall submit, prior to requesting final inspection, written certification that:
 1. Work has been completed in accordance with contract documents, listing any exceptions.
 2. Project has been inspected for compliance with contract documents.
 3. Owner has been furnished the specified warranties and spare parts and an Owner signed receipt furnished to the Landscape Architect.
 4. Project has been completed and is ready for final inspection.
- B. If the Landscape Architect considers the work complete in accordance with the requirements of the Contract Documents, the Contractor will submit his final requisition (including any change orders or final changes to the Contract Sum).
- C. If the Landscape Architect does not consider the work finally complete, the Contractor will be notified, in writing by the Landscape Architect, with the reasons stated.
- D. Re-inspection Procedure: The Landscape Architect will re-inspect the Work upon receipt of notice that the Work, including inspection list items from earlier inspections, has been completed, except for items whose completion is delayed under circumstances acceptable to the Landscape Architect/Owner.

1.05 FINAL CLEANING

- A. Execute final cleaning prior to final project assessment.
- B. Clean site: sweep paved areas, rake clean landscaped surfaces.
- C. Remove waste and surplus materials, rubbish, and construction facilities from site.

1.06 PROTECTING INSTALLED CONSTRUCTION

- A. Protect installed Work and provide special protection where specified in individual specification sections.
- B. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
- C. Prohibit traffic from landscaped and newly paved areas.

1.07 PROJECT RECORD DOCUMENTS

- A. Maintain on site one set of the following record documents; record actual revisions to the Work:
 1. Drawings.
 2. Specifications.
 3. Addenda.

6. Change Orders and other modifications to the Contract.
 7. Reviewed Shop Drawings, Product Data, and Samples.
 8. Manufacturer's instruction for assembly, installation, and adjusting.
- B. Ensure entries are complete and accurate, enabling future reference by Owner.
- C. Store record documents separate from documents used for construction.
- D. Record information concurrent with construction progress, not less than weekly.
- E. Record Drawings and Shop Drawings: Legibly mark each item to record actual construction including:
1. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
 2. Field changes of significant dimension and detail.
 3. Details not on original Contract drawings.
- F. Submit documents to Construction Manager and/or Landscape Architect with claim for final Application for Payment.

PART 2 - PRODUCTS

Not Used.

PART 3 - EXECUTION

Not Used.

END OF SECTION

SECTION 024119

SELECTIVE DEMOLITION

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Demolition and removal of selected portions of pavements.
2. Demolition and removal of selected site elements.
3. Salvage of existing items to be reused or recycled.

1.02 MATERIALS OWNERSHIP

- A. Unless otherwise indicated, demolition waste becomes property of Contractor. Topsoil removed shall be stockpiled in area to be used by Owner.
- B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be revealed during demolition remain the property of Owner.
1. Carefully salvage in a manner to prevent damage and promptly return to Owner or stockpile for reuse.
 2. Owner will be responsible for removal of plant materials to be saved and protected, plant labels and benches. (NA)

1.03 PREINSTALLATION MEETINGS

- A. Pre-demolition Conference: Conduct conference at Project Site during pre-Construction meeting. Have present facilities and security representatives from Owner, Construction Foreman, Landscape Architect and Engineer.

1.04 INFORMATIONAL SUBMITTALS

- A. Engineering Survey: Submit summary of condition of building and site to be impacted (photo record & letter).
- B. Proposed Protection Measures: Submit report, including Drawings and samples, that indicates the measures proposed for protecting individuals and property, for dust control, and for noise control. Indicate proposed locations and construction of barriers.
- C. Schedule of selective demolition activities with starting and ending dates for each activity.
- D. Pre-demolition photographs or video.

- E. Initial Staging Plan for contractors' work and materials.

1.05 CLOSEOUT SUBMITTALS

- A. Inventory of items that have been removed and salvaged.

1.06 FIELD CONDITIONS

- A. Owner will occupy portions of sites immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.
- B. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
 - 1. Before selective demolition, Owner will remove the following items upon prior notification request from Contractor:
 - a. Plant materials and label plaques within the area of work.
- C. Notify Landscape Architect or Engineer of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- D. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
 - 1. If suspected hazardous materials are encountered, do not disturb; immediately notify Landscape Architect and Owner. Hazardous materials will be removed by Owner under a separate contract.
- E. Sale of removed items or materials on-site is not permitted.
- F. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
 - 1. Maintain fire-protection facilities in service during selective demolition operations.
 - 2. Main water and gas service access valves (W. Liberty site) remain visible at grade.
- G. Arrange selective demolition or water shut-off schedule so as not to interfere with Owner's operations.

1.07 WARRANTY

- A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials and using approved contractors so as not to void existing warranties.
- B. New product warranties shall be saved and provided to the Landscape Architect and Owner with the date and source of purchase.

PART 2 - PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- B. Standards: Comply with ASSE A10.6 and NFPA 241.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that utilities have been disconnected and capped before starting selective demolition operations.
- B. Engage a professional engineer from the project team to discuss the survey of conditions of building facilities to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective building demolition operations.
- C. Inventory and record the condition of items to be removed and salvaged.

3.02 PREPARATION

- A. NA

3.03 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

- A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.
- B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off utility services and mechanical/electrical systems serving areas to be selectively demolished.
 - 1. Owner will arrange to shut off indicated services/systems when requested by Contractor.
 - 2. Arrange to shut off utilities with utility companies.
 - 3. If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of building.
 - 4. Disconnect, demolish, and remove fire-suppression systems, plumbing, and HVAC systems, equipment, and components indicated on Drawings to be removed.

- a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
- b. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with same or compatible piping material and leave in place.
- c. Equipment to Be Removed: Disconnect and cap services and remove equipment.
- d. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make equipment operational.
- e. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and deliver to Owner.

3.04 PROTECTION

- A. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
- B. Temporary Shoring: Design, provide, and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.
- C. Remove temporary barricades and protections where hazards no longer exist.

3.05 SELECTIVE DEMOLITION

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
 1. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering, and chopping. Temporarily cover openings to remain.
 2. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
 3. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
 4. Dispose of demolished items and materials promptly.
- B. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
- C. Removed and Salvaged Items:
 1. Clean salvaged items.
 2. Pack or crate items after cleaning. Identify contents of containers.
 3. Store items in a secure area until delivery to Owner.
 4. Transport items to Owner's storage area on-site and designated by Owner.

5. Protect items from damage during transport and storage.

D. Removed and Reinstalled Items:

1. Clean and repair items to functional condition adequate for intended reuse.
2. Pack, stack, or crate items after cleaning and repairing. Identify contents of containers.
3. Protect items from damage during transport and storage.
4. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.

E. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Engineer or Landscape Architect, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.

3.06 CLEANING

A. Remove demolition waste materials from Project site and dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction.

1. Do not allow demolished materials to accumulate on-site.
2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
3. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
4. Maintain cleaning until project, or portion thereof, is occupied by County.

B. Burning: Do not burn demolished materials.

C. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION

**SECTION 032000
CONCRETE REINFORCING**

PART 1 - GENERAL

1.01 REFERENCE STANDARDS

- A. ASTM A615/A615M - Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement; 2022.
- B. ASTM A706/A706M - Standard Specification for Deformed and Plain Low-Alloy Steel Bars for Concrete Reinforcement; 2024.
- C. ASTM A775/A775M - Standard Specification for Epoxy-Coated Steel Reinforcing Bars; 2022.
- D. ASTM A1064/A1064M - Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete; 2024.
- E. AWS D1.4/D1.4M - Structural Welding Code - Steel Reinforcing Bars; 2018, with Amendment (2020).

1.02 SUMMARY

- A. Section Includes:
 - 1. Steel reinforcement bars.
 - 2. Welded-wire reinforcement.

1.03 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site with design professional.

1.04 ACTION SUBMITTALS

- A. Product Data: For the following:
 - 1. Each type of steel reinforcement.
 - 2. Bar supports.
- B. Shop Drawings: Comply with ACI SP-066:
 - 1. Include placing drawings that detail fabrication, bending, and placement.
 - 2. Include bar sizes, lengths, materials, grades, bar schedules, stirrup spacing, bent bar diagrams, bar arrangement, location of splices, lengths of lap splices, details of mechanical splice couplers, details of welding splices, tie spacing, hoop spacing, and supports for concrete reinforcement.

1.05 INFORMATIONAL SUBMITTALS

- A. Material Certificates: For each of the following, signed by manufacturers:
 - 1. Epoxy-Coated Reinforcement: CRSI's "Epoxy Coating Plant Certification."
- B. Material Test Reports: For the following, from a qualified testing agency:
 - 1. Steel Reinforcement:
 - a. For reinforcement to be welded, mill test analysis for chemical composition and carbon equivalent of the steel in accordance with ASTM A706/A706M.
 - 2. Mechanical splice couplers.

- C. Field quality-control reports.

PART 2 - PRODUCTS

2.01 STEEL REINFORCEMENT

- A. Reinforcing Bars: ASTM A615/A615M, Grade 60, deformed.
- B. Epoxy-Coated Reinforcing Bars:
 - 1. Steel Bars: ASTM A615/A615M, Grade 60, deformed bars.
 - 2. Epoxy Coating: ASTM A775/A775M with less than 2 percent damaged coating in each 12-inch bar length.

2.02 REINFORCEMENT ACCESSORIES

- A. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded-wire reinforcement in place.
 - 1. Manufacture bar supports from steel wire, plastic, or precast concrete in accordance with CRSI's "Manual of Standard Practice," of greater compressive strength than concrete and as follows:
 - a. For concrete surfaces exposed to view, where legs of wire bar support contact forms, use CRSI Class 1 plastic-protected steel wire, all-plastic bar supports, or CRSI Class 2 stainless steel bar supports.
 - b. For epoxy-coated reinforcement, use CRSI Class 1A epoxy-coated or other dielectric-polymer-coated wire bar supports.
 - c. For dual-coated reinforcement, use CRSI Class 1A epoxy-coated or other dielectric-polymer-coated wire bar supports.
 - d. For zinc-coated reinforcement, use galvanized wire or dielectric-polymer-coated wire bar supports.
 - e. For stainless steel reinforcement, use CRSI Class 1 plastic-protected steel wire, all-plastic bar supports, or CRSI Class 2 stainless steel bar supports.
- B. Steel Tie Wire: ASTM A1064/A1064M, annealed steel, not less than 0.0508 inch in diameter.
 - 1. Finish: Plain.

2.03 FABRICATING REINFORCEMENT

- A. Fabricate steel reinforcement according to CRSI's "Manual of Standard Practice."

PART 3 - EXECUTION

3.01 PREPARATION

- A. Protection of In-Place Conditions:
 - 1. Do not cut or puncture vapor retarder.
 - 2. Repair damage and reseal vapor retarder before placing concrete.
- B. Clean reinforcement of loose rust and mill scale, earth, ice, and other foreign materials that reduce bond to concrete.

3.02 INSTALLATION OF STEEL REINFORCEMENT

- A. Comply with CRSI's "Manual of Standard Practice" for placing and supporting reinforcement.
- B. Accurately position, support, and secure reinforcement against displacement.
 - 1. Locate and support reinforcement with bar supports to maintain minimum concrete cover.
 - 2. Do not tack weld crossing reinforcing bars.
- C. Preserve clearance between bars of not less than 1 inch, not less than one bar diameter, or not less than 1-1/3 times size of large aggregate, whichever is greater.
- D. Provide concrete coverage in accordance with ACI 318.
- E. Set wire ties with ends directed into concrete, not toward exposed concrete surfaces.
- F. Splices: Lap splices as indicated on Drawings.
 - 1. Bars indicated to be continuous, and all vertical bars shall be lapped not less than 36 bar diameters at splices, or 24 inches, whichever is greater.
 - 2. Stagger splices in accordance with ACI 318.
 - 3. Mechanical Splice Couplers: Install in accordance with manufacturer's instructions.
 - 4. Weld reinforcing bars in accordance with AWS D1.4/D1.4M, where indicated on Drawings.
- G. Install welded-wire reinforcement in longest practicable lengths.
 - 1. Support welded-wire reinforcement in accordance with CRSI "Manual of Standard Practice."
 - a. For reinforcement less than W4.0 or D4.0, continuous support spacing shall not exceed 12 inches.
 - 2. Lap edges and ends of adjoining sheets at least one wire spacing plus 2 inches for plain wire and 8 inches for deformed wire.
 - 3. Offset laps of adjoining sheet widths to prevent continuous laps in either direction.
 - 4. Lace overlaps with wire.
 - a. JOINTS
- H. Construction Joints: Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Architect.
 - 1. Place joints perpendicular to main reinforcement.
 - 2. Continue reinforcement across construction joints unless otherwise indicated.
 - 3. Do not continue reinforcement through sides of strip placements of floors and slabs.
 - a. INSTALLATION TOLERANCES A. Comply with ACI 117.
 - b. FIELD QUALITY CONTROL
- I. Special Inspections: Owner will engage a special inspector and qualified testing and inspecting agency to perform field tests and inspections and prepare test reports.
- J. Testing Agency: Engage a qualified testing and inspecting agency to perform tests and inspections and to submit reports.
- K. Inspections:
 - 1. Steel-reinforcement placement.

2. Steel-reinforcement mechanical splice couplers.
3. Steel-reinforcement welding.

END OF SECTION

SECTION 033000
CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Cast-in-place concrete, including concrete materials, mixture design, placement procedures, and finishes.
- B. Related Requirements:
 - 1. Section 032000 "Concrete Reinforcing" for steel reinforcing bars and welded-wire reinforcement.

1.02 DEFINITIONS

- A. Cementitious Materials: Portland cement alone or in combination with one or more of the following: blended hydraulic cement, fly ash, slag cement, and other pozzolans materials subject to compliance with requirements.
- B. Water/Cement Ratio (w/cm): The ratio by weight of water to cementitious materials.

1.03 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site with design professional.

1.04 ACTION SUBMITTALS

- A. Product Data: For each of the following.
 - 1. Portland cement.
 - 2. Fly ash.
 - 3. Slag cement.
 - 4. Aggregates.
 - 5. Admixtures:
 - a. Include limitations of use, including restrictions on cementitious materials, supplementary cementitious materials, air entrainment, aggregates, temperature at time of concrete placement, relative humidity at time of concrete placement, curing conditions, and use of other admixtures.
 - 6. Curing materials.
 - 7. Joint fillers.
- B. Design Mixtures: For each concrete mixture, include the following:
 - 1. Mixture identification.
 - 2. Minimum 28-day compressive strength.
 - 3. Durability exposure class.
 - 4. Maximum w/cm.
 - 5. Calculated equilibrium unit weight, for lightweight concrete.
 - 6. Slump limit.
 - 7. Air content.

8. Nominal maximum aggregate size.
 9. Indicate amounts of mixing water to be withheld for later addition at Project site if permitted.
 10. Intended placement method.
 11. Submit alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.
- C. Shop Drawings:
1. Construction Joint Layout: Indicate proposed construction joints required to construct the structure.
 - a. Location of construction joints is subject to approval of the Landscape Architect.
- D. Concrete Schedule: For each location of each Class of concrete indicated in "Concrete Mixtures" Article, including the following:
1. Concrete Class designation.
 2. Location within Project.
 3. Exposure Class designation.
 4. Formed Surface Finish designation and final finish.
 5. Final finish for floors.
 6. Curing process.
 7. Floor treatment if any.

1.05 INFORMATIONAL SUBMITTALS

- A. Material Certificates: For each of the following, signed by manufacturers:
1. Cementitious materials.
 2. Admixtures.
 3. Curing compounds.
 4. Joint-filler strips.
- B. Material Test Reports: For the following, from a qualified testing agency:
1. Portland cement.
 2. Fly ash.
 3. Slag cement.
 4. Aggregates.
 5. Admixtures:
- C. Field quality-control reports.

1.06 QUALITY ASSURANCE

- A. Ready-Mixed Concrete Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C94/C94M requirements for production facilities and equipment.
1. Manufacturer certified in accordance with NRMCA's "Certification of Ready Mixed Concrete Production Facilities."

1.07 DELIVERY, STORAGE, AND HANDLING

Comply with ASTM C94/C94M and ACI 301.

1.08 FIELD CONDITIONS

- A. Cold-Weather Placement: Comply with ACI 301 and ACI 306.1.
- B. Hot-Weather Placement: Comply with ACI 301 and ACI 305.1.

PART 2 - PRODUCTS

2.01 CONCRETE, GENERAL

- A. ACI Publications: Comply with ACI 301 unless modified by requirements in the Contract Documents.

2.02 CONCRETE MATERIALS

- A. Cementitious Materials:
 - 1. Portland Cement: ASTM C150/C150M, Type I/II , gray .
 - 2. Fly Ash: ASTM C618, Class C or F.
 - 3. Slag Cement: ASTM C989/C989M, Grade 100 or 120.
- B. Normal-Weight Aggregates: ASTM C33/C33M, Class 3S coarse aggregate or better, graded. Provide aggregates from a single source.
 - 1. Alkali-Silica Reaction: Comply with one of the following:
 - a. Expansion Result of Aggregate: Not more than 0.04 percent at one-year when tested in accordance with ASTM C1293.
 - b. Expansion Results of Aggregate and Cementitious Materials in Combination: Not more than 0.10 percent at an age of 16 days when tested in accordance with ASTM C1567.

- c. Alkali Content in Concrete: Not more than 4 lb./cu. yd. for moderately reactive aggregate or 3 lb./cu. yd. for highly reactive aggregate, when tested in accordance with ASTM C1293 and categorized in accordance with ASTM C1778, based on alkali content being calculated in accordance with ACI 301.
 2. Maximum Coarse-Aggregate Size: 3/4-inch nominal.
 3. Fine Aggregate: Free of materials with deleterious reactivity to alkali in cement.
- C. Air-Entraining Admixture: ASTM C260/C260M.
- D. Chemical Admixtures: Certified by manufacturer to be compatible with other admixtures that do not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride .
1. Water-Reducing Admixture: ASTM C494/C494M, Type A.
 2. Retarding Admixture: ASTM C494/C494M, Type B.
 3. Water-Reducing and -Retarding Admixture: ASTM C494/C494M, Type D.
 4. High-Range, Water-Reducing Admixture: ASTM C494/C494M, Type F.
 5. High-Range, Water-Reducing and -Retarding Admixture: ASTM C494/C494M, Type G.
 6. Plasticizing and Retarding Admixture: ASTM C1017/C1017M, Type II.
- E. Water and Water Used to Make Ice: ASTM C94/C94M, potable

2.03 CURING MATERIALS

- A. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. when dry.
- B. Moisture-Retaining Cover: ASTM C171, polyethylene film burlap-polyethylene sheet.
1. Color:
 - a. Ambient Temperature Below 50 deg F: Black.
 - b. Ambient Temperature between 50 deg F and 85 deg F: Any color.
 - c. Ambient Temperature Above 85 deg F: White.
- C. Curing Paper: Eight-foot- wide paper, consisting of two layers of fibered kraft paper laminated with double coating of asphalt.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Fortifiber Building Systems Group.
- D. Water: Potable or complying with ASTM C1602/C1602M.
- E. Clear, Waterborne, Membrane-Forming, Dissipating Curing Compound: ASTM C309, Type 1, Class B.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

- a. Dayton Superior.
 - b. Euclid Chemical Company (The); an RPM company.
 - c. W.R. Meadows, Inc.
- F. Clear, Waterborne, Membrane-Forming, Nondissipating Curing Compound: ASTM C309, Type 1, Class B.
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. BASF Corporation.
 - b. Euclid Chemical Company (The); an RPM company.
 - c. W.R. Meadows, Inc.
- G. Clear, Waterborne, Membrane-Forming, Curing and Sealing Compound: ASTM C1315, Type 1, Class A.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Dayton Superior.
 - b. Euclid Chemical Company (The); an RPM company.
 - c. W.R. Meadows, Inc.

2.04 RELATED MATERIALS

- A. Expansion- and Isolation-Joint-Filler Strips: ASTM D1752, cork or self-expanding cork.
- B. Floor Slab Protective Covering: Eight-feet- wide cellulose fabric.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. McTech Group, Inc.

2.05 CONCRETE MIXTURES, GENERAL

- A. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, in accordance with ACI 301.
1. Use a qualified testing agency for preparing and reporting proposed mixture designs, based on laboratory trial mixtures.
- B. Cementitious Materials: Limit percentage, by weight, of cementitious materials other than portland cement in concrete as follows:
1. Fly Ash or Other Pozzolans: 25 percent by mass.
 2. Slag Cement: 50 percent by mass.
 3. Total of Fly Ash or Other Pozzolans, Slag Cement: 50 percent by mass, with fly ash or pozzolans not exceeding 25 percent by mass.

4. Total of Fly Ash or Other Pozzolans: 35 percent by mass with fly ash or pozzolans not exceeding 25 percent by mass.
- C. Admixtures: Use admixtures in accordance with manufacturer's written instructions.
1. Use water-reducing high-range water-reducing or plasticizing admixture in concrete, as required, for placement and workability.
 2. Use water-reducing and -retarding admixture when required by high temperatures, low humidity, or other adverse placement conditions.
 3. Use water-reducing admixture in pumped concrete, and concrete with a w/cm below 0.50.

2.06 CONCRETE MIXTURES

- A. Class F : Normal-weight concrete used for concrete toppings.
1. Exposure Class: ACI 318 F3.
 2. Minimum Compressive Strength: 5000 psi at 28 days.
 3. Minimum Cementitious Materials Content: 540 lb/cu. yd.
 4. Slump Limit: 4 inches, plus or minus 1 inch.
 5. Air Content:
 - a. Exposure Classes F2 and F3: 6 percent, plus or minus 1.5 percent at point of delivery for concrete containing 3/4-inch nominal maximum aggregate size.
 6. Limit water-soluble, chloride-ion content in hardened concrete to 1.00 percent by weight of cement.
 - a. Do not use an air-entraining admixture or allow total air content to exceed 3 percent for concrete used in trowel-finished toppings.
- B. Class J : Normal-weight concrete used for exterior walls.
1. Exposure Class: ACI 318 F3.
 2. Minimum Compressive Strength: 5000 psi at 28 days.
 3. Maximum w/cm: 0.40.
 4. Slump Limit: 4 inches, plus or minus 1 inch.
 5. Slump Flow Limit: 22 inches, plus or minus 1.5 inches.
 6. Air Content:
 - a. Exposure Classes F2 and F3: 6 percent, plus or minus 1.5 percent at point of delivery for concrete containing 3/4-inch nominal maximum aggregate size.
 7. Limit water-soluble, chloride-ion content in hardened concrete to 1.00 percent by weight of cement.

2.07 CONCRETE MIXING

- A. Ready-Mixed Concrete: Measure, batch, mix, and deliver concrete in accordance with ASTM C94/C94M, and furnish batch ticket information.
- B. Project-Site Mixing: Measure, batch, and mix concrete materials and concrete in accordance with ASTM C94/C94M. Mix concrete materials in appropriate drum-type batch machine mixer.

1. For mixer capacity of 1 cu. yd. or smaller, continue mixing at least 1-1/2 minutes, but not more than five minutes after ingredients are in mixer, before any part of batch is released.
2. For mixer capacity larger than 1 cu. yd., increase mixing time by 15 seconds for each additional 1 cu. yd.
3. Provide batch ticket for each batch discharged and used in the Work, indicating Project identification name and number, date, mixture type, mixture time, quantity, and amount of water added. Record approximate location of final deposit in structure.

PART 3 - EXECUTION

3.01 INSTALLATION OF EMBEDDED ITEMS

- A. Place and secure anchorage devices and other embedded items required for adjoining Work that is attached to or supported by cast-in-place concrete.
 1. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
 2. Install anchor rods, accurately located, to elevations required and complying with tolerances in Section 7.5 of ANSI/AISC 303.
 3. Install reglets to receive waterproofing and to receive through-wall flashings in outer face of concrete frame at exterior walls, where flashing is shown at lintels, shelf angles, and other conditions.

3.02 JOINTS

- A. Construct joints true to line, with faces perpendicular to surface plane of concrete.
- B. Construction Joints: Coordinate with floor slab pattern and concrete placement sequence.
 1. Install so strength and appearance of concrete are not impaired, at locations indicated on Drawings or as approved by Architect.
 2. Place joints perpendicular to main reinforcement.
 - a. Continue reinforcement across construction joints unless otherwise indicated.
 - b. Do not continue reinforcement through sides of strip placements of floors and slabs.
 3. Form keyed joints as indicated. Embed keys at least 1-1/2 inches into concrete.
 4. Locate joints for beams, slabs, joists, and girders at third points of spans. Offset joints in girders a minimum distance of twice the beam width from a beam-girder intersection.
 5. Locate horizontal joints in walls and columns at underside of floors, slabs, beams, and girders and at the top of footings or floor slabs.
 6. Space vertical joints in walls as indicated on Drawings . Unless otherwise indicated on Drawings, locate vertical joints beside piers integral with walls, near corners, and in concealed locations where possible.

3.03 CONCRETE PLACEMENT

- A. Before placing concrete, verify that installation of formwork, reinforcement, embedded items, and vapor retarder is complete and that required inspections are completed.

1. Immediately prior to concrete placement, inspect vapor retarder for damage and deficient installation, and repair defective areas.
 2. Provide continuous inspection of vapor retarder during concrete placement and make necessary repairs to damaged areas as Work progresses.
- B. Notify Architect and testing and inspection agencies 24 hours prior to commencement of concrete placement.
- C. Do not add water to concrete during delivery, at Project site, or during placement unless approved by Architect in writing, but not to exceed the amount indicated on the concrete delivery ticket.
1. Do not add water to concrete after adding high-range water-reducing admixtures to mixture.
- D. Before test sampling and placing concrete, water may be added at Project site, subject to limitations of ACI 301, but not to exceed the amount indicated on the concrete delivery ticket.
1. Do not add water to concrete after adding high-range water-reducing admixtures to mixture.
- E. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete is placed on concrete that has hardened enough to cause seams or planes of weakness.
1. If a section cannot be placed continuously, provide construction joints as indicated.
 2. Deposit concrete to avoid segregation.
 3. Deposit concrete in horizontal layers of depth not to exceed formwork design pressures and in a manner to avoid inclined construction joints.
 4. Consolidate placed concrete with mechanical vibrating equipment in accordance with ACI 301.
 - a. Do not use vibrators to transport concrete inside forms.
 - b. Insert and withdraw vibrators vertically at uniformly spaced locations to rapidly penetrate placed layer and at least 6 inches into preceding layer.
 - c. Do not insert vibrators into lower layers of concrete that have begun to lose plasticity.
 - d. At each insertion, limit duration of vibration to time necessary to consolidate concrete, and complete embedment of reinforcement and other embedded items without causing mixture constituents to segregate.
- F. Deposit and consolidate concrete for floors and slabs in a continuous operation, within limits of construction joints, until placement of a panel or section is complete.
1. Do not place concrete floors and slabs in a checkerboard sequence.
 2. Consolidate concrete during placement operations, so concrete is thoroughly worked around reinforcement and other embedded items and into corners.
 3. Maintain reinforcement in position on chairs during concrete placement.
 4. Screed slab surfaces with a straightedge and strike off to correct elevations.
 5. Level concrete, cut high areas, and fill low areas.
 6. Slope surfaces uniformly to drains where required.
 7. Begin initial floating using bull floats or darbies to form a uniform and open-textured surface plane, before excess bleedwater appears on the surface.
 8. Do not further disturb slab surfaces before starting finishing operations.

3.04 FINISHING FORMED SURFACES

A. As-Cast Surface Finishes:

1. ACI 301 Surface Finish SF-1.0: As-cast concrete texture imparted by form-facing material.
 - a. Patch voids larger than 1-1/2 inches wide or 1/2 inch deep.
 - b. Remove projections larger than 1 inch.
 - c. Tie holes do not require patching.
 - d. Surface Tolerance: ACI 117 Class D.
 - e. Apply to concrete surfaces not exposed to public view.
2. ACI 301 Surface Finish SF-2.0: As-cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams.
 - a. Patch voids larger than 3/4-inch-wide or 1/2 inch deep.
 - b. Remove projections larger than 1/4 inch.
 - c. Patch tie holes.
 - d. Surface Tolerance: ACI 117 Class B.
 - e. Locations: Apply to concrete surfaces exposed to public view.
3. ACI 301 Surface Finish SF-3.0:
 - a. Patch voids larger than 3/4-inch-wide or 1/2 inch deep.
 - b. Remove projections larger than 1/8 inch.
 - c. Patch tie holes.
 - d. Surface Tolerance: ACI 117 Class A.
 - e. Locations: Apply to concrete surfaces exposed to public view.

B. Related Unformed Surfaces:

1. At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a color and texture matching adjacent formed surfaces.
2. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces unless otherwise indicated.

3.05 FINISHING FLOORS AND SLABS

- #### **A. Comply with ACI 302.1R recommendations for screeding, restraightening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.**

3.06 INSTALLATION OF MISCELLANEOUS CONCRETE ITEMS

A. Filling In:

1. Fill in holes and openings left in concrete structures after Work of other trades is in place unless otherwise indicated.
2. Mix, place, and cure concrete, as specified, to blend with in-place construction.
3. Provide other miscellaneous concrete filling indicated or required to complete the Work.

- #### **B. Curbs: Provide monolithic finish to interior curbs by stripping forms while concrete is still green and by steel-troweling surfaces to a hard, dense finish with corners, intersections, and terminations slightly rounded.**

C. Equipment Bases and Foundations:

1. Coordinate sizes and locations of concrete bases with actual equipment provided.
2. Construct concrete bases 6 inches high unless otherwise indicated on Drawings, and extend base not less than 6 inches in each direction beyond the maximum dimensions of supported equipment unless otherwise indicated on Drawings, or unless required for seismic anchor support.
3. Minimum Compressive Strength: 4500 psi at 28 days.
4. Install dowel rods to connect concrete base to concrete floor. Unless otherwise indicated, install dowel rods on 18-inch centers around the full perimeter of concrete base.
5. For supported equipment, install epoxy-coated anchor bolts that extend through concrete base and anchor into structural concrete substrate.
6. Prior to pouring concrete, place, and secure anchorage devices.
 - a. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
 - b. Cast anchor-bolt insert into bases.
 - c. Install anchor bolts to elevations required for proper attachment to supported equipment.

3.07 CONCRETE CURING

A. Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.

1. Comply with ACI 301 and ACI 306.1 for cold weather protection during curing.
2. Comply with ACI 301 and ACI 305.1 for hot-weather protection during curing.
3. Maintain moisture loss no more than 0.2 lb/sq. ft. x h before and during finishing operations.

B. Curing Formed Surfaces: Comply with ACI 308.1 as follows:

1. Cure formed concrete surfaces, including underside of beams, supported slabs, and other similar surfaces.
2. Cure concrete containing color pigments in accordance with color pigment manufacturer's instructions.
3. If forms remain during curing period, moist cure after loosening forms.
4. If removing forms before end of curing period, continue curing for remainder of curing period, as follows:
 - a. Continuous Fogging: Maintain standing water on concrete surface until final setting of concrete.
 - b. Continuous Sprinkling: Maintain concrete surface continuously wet.
 - c. Absorptive Cover: Pre-dampen absorptive material before application; apply additional water to absorptive material to maintain concrete surface continuously wet.
 - d. Water-Retention Sheeting Materials: Cover exposed concrete surfaces with sheeting material, taping, or lapping seams.
 - e. Membrane-Forming Curing Compound: Apply uniformly in continuous operation by power spray or roller in accordance with manufacturer's written instructions.
 - 1) Recoat areas subject to heavy rainfall within three hours after initial application.
 - 2) Maintain continuity of coating and repair damage during curing period.

C. Curing Unformed Surfaces: Comply with ACI 308.1 as follows:

1. Begin curing immediately after finishing concrete.

3.08 TOLERANCES

A. Conform to ACI 117.

3.09 FIELD QUALITY CONTROL

A. Special Inspections: Owner will engage a special inspector to perform field tests and inspections and prepare testing and inspection reports.

B. Testing Agency: a qualified testing and inspecting agency to perform tests and inspections and to submit reports.

1. Testing agency shall be responsible for providing curing container for composite samples on Site and verifying that field-cured composite samples are cured in accordance with ASTM C31/C31M.
2. Testing agency shall immediately report to Architect, Contractor, and concrete manufacturer any failure of Work to comply with Contract Documents.
3. Testing agency shall report results of tests and inspections, in writing, to Owner, Architect, Contractor, and concrete manufacturer within 48 hours of inspections and tests.
 - a. Test reports shall include reporting requirements of ASTM C31/C31M, ASTM C39/C39M, and ACI 301, including the following as applicable to each test and inspection:
 - 1) Project name.
 - 2) Name of testing agency.
 - 3) Names and certification numbers of field and laboratory technicians performing inspections and testing.
 - 4) Name of concrete manufacturer.
 - 5) Date and time of inspection, sampling, and field testing.
 - 6) Date and time of concrete placement.
 - 7) Location in Work of concrete represented by samples.
 - 8) Date and time sample was obtained.
 - 9) Truck and batch ticket numbers.
 - 10) Design compressive strength at 28 days.
 - 11) Concrete mixture designation, proportions, and materials.
 - 12) Field test results.
 - 13) Information on storage and curing of samples before testing, including curing method and maximum and minimum temperatures during initial curing period.
 - 14) Type of fracture and compressive break strengths at seven days and 28 days.

C. Batch Tickets: For each load delivered, submit three copies of batch delivery ticket to testing agency, indicating quantity, mix identification, admixtures, design strength, aggregate size, design air content, design slump at time of batching, and amount of water that can be added at Project site.

D. Inspections:

1. Headed bolts and studs.
2. Verification of use of required design mixture.
3. Concrete placement, including conveying and depositing.
4. Curing procedures and maintenance of curing temperature.
5. Verification of concrete strength before removal of shores and forms from beams and slabs.
6. Batch Plant Inspections: On a random basis, as determined by Architect.

E. Concrete Tests: Testing of composite samples of fresh concrete obtained in accordance with ASTM C 172/C 172M shall be performed in accordance with the following requirements:

1. Testing Frequency: Obtain one composite sample for each day's pour of each concrete mixture exceeding 5 cu. yd., but less than 25 cu. yd., plus one set for each additional 50 cu. yd. or fraction thereof.
 - a. When frequency of testing provides fewer than five compressive-strength tests for each concrete mixture, testing shall be conducted from at least five randomly selected batches or from each batch if fewer than five are used.
2. Slump: ASTM C143/C143M:
 - a. One test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mixture.
 - b. Perform additional tests when concrete consistency appears to change.
3. Slump Flow: ASTM C1611/C1611M:
 - a. One test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mixture.
 - b. Perform additional tests when concrete consistency appears to change.
4. Air Content: ASTM C231/C231M pressure method, for normal-weight concrete; .
 - a. One test for each composite sample, but not less than one test for each day's pour of each concrete mixture.
5. Concrete Temperature: ASTM C1064/C1064M:
 - a. One test hourly when air temperature is 40 deg F and below or 80 deg F and above, and one test for each composite sample.
6. Unit Weight: ASTM C567/C567M fresh unit weight of structural lightweight concrete.
 - a. One test for each composite sample, but not less than one test for each day's pour of each concrete mixture.
7. Compression Test Specimens: ASTM C31/C31M:
 - a. Cast and laboratory cure two sets of three 6-inch by 12-inch or 4-inch by 8-inch cylinder specimens for each composite sample.
 - b. Cast, initial cure, and field cure two sets of three standard cylinder specimens for each composite sample.
8. Compressive-Strength Tests: ASTM C39/C39M.
 - a. Test one set of three laboratory-cured specimens at seven days and one set of two specimens at 28 days.
 - b. Test one set of three field-cured specimens at seven days and one set of two specimens at 28 days.
 - c. A compressive-strength test shall be the average compressive strength from a set of two specimens obtained from same composite sample and tested at age indicated.
9. When strength of field-cured cylinders is less than 85 percent of companion laboratory-cured cylinders, Contractor shall evaluate operations and provide corrective procedures for protecting and curing in-place concrete.

10. Strength of each concrete mixture will be satisfactory if every average of any three consecutive compressive-strength tests equals or exceeds specified compressive strength, and no compressive-strength test value falls below specified compressive strength by more than 500 psi if specified compressive strength is 5000 psi, or no compressive strength test value is less than 10 percent of specified compressive strength if specified compressive strength is greater than 5000 psi.
 11. Nondestructive Testing: Impact hammer, sonoscope, or other nondestructive device may be permitted by Architect but will not be used as sole basis for approval or rejection of concrete.
 12. Additional Tests:
 - a. Testing and inspecting agency shall make additional tests of concrete when test results indicate that slump, air entrainment, compressive strengths, or other requirements have not been met, as directed by Architect.
 - b. Testing and inspecting agency may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C42/C42M or by other methods as directed by Architect.
 - 1) Acceptance criteria for concrete strength shall be in accordance with ACI 301 section 1.6.6.3.
 13. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.
 14. Correct deficiencies in the Work that test reports and inspections indicate do not comply with the Contract Documents.
- F. Measure floor and slab flatness and levelness in accordance with ASTM E1155 within 24 hours of completion of floor finishing and promptly report test results to Architect.

3.10 PROTECTION

- A. Protect concrete surfaces as follows:
1. Protect from petroleum stains.
 2. Diaper hydraulic equipment used over concrete surfaces.
 3. Prohibit vehicles from interior concrete slabs.
 4. Prohibit use of pipe-cutting machinery over concrete surfaces.
 5. Prohibit placement of steel items on concrete surfaces.
 6. Prohibit use of acids or acidic detergents over concrete surfaces.
 7. Protect liquid floor treatment from damage and wear during the remainder of construction period. Use protective methods and materials, including temporary covering, recommended in writing by liquid floor treatments installer.
 8. Protect concrete surfaces scheduled to receive surface hardener or polished concrete finish using Floor Slab Protective Covering.

END OF SECTION

SECTION 040513

MORTAR and MASONRY GROUT

PART 1 GENERAL

1.01 REFERENCES

- A. Standards:
 - 1. Mortar: ASTM C 270, except as otherwise specified.
 - 2. Grout: ASTM C 476.

1.02 SUBMITTALS

- A. Product Data:
 - 1. Portland Cement: Brand and manufacturer's name.
 - 2. Masonry Cement: Brand and manufacturer's name.
 - 3. Lime: Brand and manufacturer's name.
 - 4. Sand(s): Location of pit, name of owner, and previous test data.
 - 5. Color Pigments: Brand and manufacturer's name.

1.03 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle materials in a manner which will insure the preservation of their quality and fitness for the Work.
- B. Store cement and lime on raised platforms under waterproof, well ventilated cover.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Cement: One of the following complying with the indicated requirements:
 - 1. Portland Cement: ASTM C 150, Type 1, of natural color or white as required to produce the desired color.
 - a. Fly Ash: Comply with ASTM C593.
 - 1) Recycled Content: Minimum 15 percent pre-consumer recycled content at contractor's option.
 - a) Type 1: 81 g, 15 percent.
 - 2. Masonry Cement: ASTM C 91, of natural color or custom color as required to produce the desired color.
 - a. Fly Ash: Comply with ASTM C593.
 - 1.) Recycled Content: Minimum 5 percent post-consumer recycled content, or minimum 20 percent pre-consumer recycled content at contractor's option.
 - a) Type M: 27 g, 5 percent; 108 g 20 percent.
 - b) Type S: 26 g, 5 percent; 102 g, 20 percent.
 - c) Type N: 24 g, 5 percent; 96 g 20 percent.

- B. Hydrated Lime: ASTM C 207, Type S.
- C. Mortar Sand: ASTM C 144, except that for joints less than 1/4 inch thick use sand graded with 100 percent passing the No. 16 sieve.
 - 1. Sand for White Mortar: Natural white sand or ground white stone.
 - 2. Sand for Colored Mortar: Ground marble, granite, or other sound stone, as required to match approved sample.
- D. Grout Sand: ASTM C 404.
- E. Color Pigments: High purity, finely ground, chemically inert, unfading, lime proof mineral oxides specially prepared for use in mortar.
- F. Water: Clean and free of deleterious amounts of acids, alkalis, and organic materials.

2.02 MIXES

- A. Mortar for Unit Masonry: Comply with ASTM C 270, proportion specifications, except limit materials to those specified.
 - 1. Colored Mortar: Proportion color pigments with other ingredients as necessary to match required color, except limit pigments other than carbon black to a maximum of 10 percent of cement content by weight and limit carbon black to a maximum of 3 percent of cement content by weight.
- B. Grout: Comply with ASTM C 476. If grout types are not indicated on Drawings, furnish type (fine or coarse) most suitable for the particular job conditions to completely fill cavities and embed reinforcement and other built-in items.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Refer to sections of Specifications which require mortar.

3.02 MORTAR SCHEDULE

- A. Where mortar types are not indicated on Drawings or specified, use types as follows:
 - 1. Type M for unit masonry below grade in contact with fill materials.
 - 2. Type S for concrete masonry units, caps or stone.
 - a. Proportion Portland cement, lime, and sand in a 1:1:6 ratio.

END OF SECTION

SECTION 042113

BRICK MASONRY

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

- A. Mortar: Section 040513.
- B. Concrete Unit Masonry: Section 042200.
- C. Built-In Flashings: Section 076000.

1.02 SUBMITTALS

- A. Samples:
 - 1. Facing Brick: 25, each type, showing full range of color and texture.
 - 2. Building Brick (Exposed Exterior): 12, showing full range of shading.
 - 3. Building Brick (Exposed Interior): 12, showing full range of shading.
 - 4. Building Brick (Back-up): 6.
 - 5. Accessories: Each item specified, full size or 24 inch long sections as applicable.
- B. Quality Control Submittals:
 - 1. Test Reports: At the written request of the Director, submit certified test reports for each type of brick specified as follows:
 - a. Compressive strength.
 - b. Twenty-four hour cold water absorption.
 - c. Five hour boiling water absorption.
 - d. Saturation coefficient.
 - e. Initial rate of absorption (suction).

1.03 QUALITY ASSURANCE

- A. Field Examples:
 - 1. Prior to installation of brick masonry, construct a sample brick masonry wall panel at the Site.
 - 2. Build panel 24 inches long by 32 inches high by full wall thickness, with materials, bond, joints, accessories, and back-up masonry required for the Work.
 - 3. Construct a separate panel for each kind of exposed brick.
 - 4. Do not start brick masonry until a sample panel has been approved by the Director's Representative.
 - 5. Approved panel will be the standard of workmanship required for all masonry built of the same materials. Failure to maintain this standard will be cause for rejection of the masonry.
 - 6. Maintain approved panel intact until all brick masonry has been installed and approved; then remove panel from the Site.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Deliver brick for use in exposed Work on pallets. Handle by mechanical means, by hand or tongs. Dumping will not be permitted.
- B. Store brick off the ground to prevent contamination by mud, dust or other materials likely to cause staining or other defects.
- C. Cover brick, when necessary, to protect from the elements.
- D. Protect accessories from the elements.

1.05 PROJECT CONDITIONS

- A. Environmental Requirements; Cold Weather Conditions:
 - 1. At temperatures below 40 degrees F, maintain mortar temperature between 40 degrees F and 120 degrees F. If necessary, heat mixing water and sand to produce the required results.
 - 2. At temperatures between 40 degrees F and 32 degrees F, protect masonry from rain and snow for 24 hours after laying.
 - 3. At temperatures between 32 degrees F and 20 degrees F, provide wind breaks and cover the masonry to prevent wetting and freezing. Maintain masonry above freezing for not less than 24 hours using auxiliary heat or insulating blankets.
 - 4. At temperatures below 20 degrees F, provide heated enclosures for laying the masonry. At the end of the workday, maintain the enclosures and keep the Work from freezing for not less than 24 hours.
 - 5. Do not lower freezing point of mortar by use of antifreeze, calcium chloride or other additives.
 - 6. Do not use frozen materials or materials coated with ice or frost.

PART 2 PRODUCTS

2.01 FACING BRICK

- A. Facing Brick (Exterior): ASTM C 216, Grade SW, Type FBS.
 - 1. Size, Color, and Texture: "MODULAR" (3 5/8" x 2 1/4" x 7 5/8") size, REGAL BLEND SMOOTH color, and SMOOTH texture – Belden Brick Company
 - 2. Size, Color, and Texture: Match existing adjacent brickwork at City Hall.
- B. Option: Facing brick may be either cored or solid except that only solid brick shall be used for corbeling and where cores would be exposed to view. If cored brick are furnished, core holes shall be not less than 3/4 inch from any edge and no more than 25 percent of the gross area of the brick.
- C. Special Moulded Shapes: Furnish for applications where units cannot be sawn from standard sizes.

2.02 BUILDING (COMMON) BRICK

- A. Building Brick (Exterior): ASTM C 62, Grade SW.
 - 1. Size, Color, and Appearance:
 - 2. Size, Color, and Appearance: Match existing adjacent brickwork.
- B. Building Brick (Interior and Back-Up): ASTM C 62, Grade MW.
 - 1. Size, Color, and Appearance:
 - 2. Size, Color, and Appearance: Match existing adjacent brickwork.

2.03 AIR VENTS, WEEP VENTS, AND CAVITY WALL NET

- A. Air Vents: Flexible ultra violet resistant polypropylene co-polymer DA1006 Cell Vent by Dur-O-Wal Inc., 7777 Washington Village Dr., Ste. 130, Dayton, OH 45459, (888) 977.9600, www.dur-o-wal.com..
 - 1. Size: Height 2-1/2 inch maximum except as indicated otherwise, by full width of brick.
 - 2. Color: To match mortar color.
- B. Weep Vents: Flexible ultra violet stable recycled polyester mesh, rectangular shape by Mortar Net USA Ltd, 541 S. Lake St., Gary, IN 46403, (800) 664-6638, www.mortarnet.com, CavClear Weep Vents by Archovations, Inc., PO Box 241, Hudson, WI 54016, (888) 436-2620, www.cavclear.com.
 - 1. Size: Height 2-1/2 inch maximum except as indicated otherwise, by full width of Brick.
 - 2. Color: To match mortar color.
- C. Cavity Wall Mortar Net: Lightweight polyethylene, 90 percent open woven mesh by Mortar Net USA Ltd, 541 South Lake Street, Gary, IN 46403, (800) -664-6638, www.mortarnet.com. or CavClear Masonry Mat by Archovations, Inc., PO Box 241, Hudson, WI 54016, (888) 436-2620, www.cavclear.com.
 - 1. Size: Height 10 inches, thickness as required to fill cavity.
 - 2. Size: Full height of wall, thickness as required to fill cavity.

2.04 ACCESSORIES

- A. Masonry Wall Reinforcement: Joint reinforcement factory fabricated from cold-drawn steel wire, ASTM A 82, truss or ladder design, with 9 gage deformed steel wire longitudinal rods welded to 9 gage steel wire cross ties spaced 16 inches oc; width 1-1/2 to 2 inches less than total wall thickness. Furnish factory fabricated corner and tee sections for corners and wall intersections.
 - 1. Finish for Exterior Walls: 1.5 oz per sq ft hot dipped galvanized after fabrication, ASTM A 153, Class B-2.
 - 2. Finish for Interior Walls: 0.8 oz per sq ft mill galvanized, ASTM A 641, Class 3, except interior walls exposed to moist environment shall have finish specified for exterior walls.
 - 3. Cavity Wall Construction: Ladder design fabricated with drip notch in cross ties centered over cavity.
 - 4. For walls with concrete masonry unit back-up wythe, reinforcement shall have a third longitudinal rod located for proper embedment at internal face shell of concrete masonry units.

5. Provide units with adjustable 2 piece rectangular ties where horizontal joints of facing wythe do not align with those of back-up.
- B. Adjustable Wall Ties: 3/16 inch diameter cold-drawn steel wire, ASTM A 82; 2 piece construction consisting of pintle section with 2 legs and corresponding eye section. Maximum clearance between connecting parts shall be 1/16 inch. Wall tie shall be of size for at least 1-1/2 inch embedment into the mortar bed of solid masonry units.
1. Finish for Exterior Walls: 1.5 oz per sq ft hot dipped galvanized after fabrication, ASTM A 153, Class B-2.
 2. Finish for Interior Walls: 0.8 oz per sq ft mill galvanized, ASTM A 641, Class 3, except interior walls exposed to moist environment shall have finish specified for exterior walls.
 3. For solid masonry wythes, provide z-shaped ties.
 4. For composite wythes (face brick with hollow concrete masonry backing), provide rectangular shaped ties.
- C. Flexible Anchors: 1.5 oz per sq ft hot dipped galvanized steel anchors which will permit horizontal and vertical movement of masonry but will maintain lateral restraint, and as follows:
1. For Anchorage To Concrete Framework: 2 piece anchors with 14 gage sheet steel dovetail section and rectangular or vee-shaped 3/16 inch diameter wire tie section sized to extend to within one inch of face of masonry.
 2. For Anchorage To Steel Framework: 2 piece anchors with crimped 1/4 inch diameter bar for welding to steel and rectangular or vee-shaped 3/16 inch diameter wire tie section sized to extend to within one inch of face of masonry.
- D. Dovetail Anchor Slot Concrete Inserts: 24 gage galvanized steel, with filler strip; slot sized to fit dovetail anchor.
- E. Corrugated Wall Ties: 22 gage corrugated steel, 7/8 inch wide, 7 inches long, ASTM A 153, Class B-2, 1.5 oz per sq ft hot dipped galvanized after fabrication.
- F. Tiebars: 1-1/4 x 1/4 x 28 inch long steel bars with 3 inch long right angle bent ends, 1.5 oz per sq ft hot dipped galvanized after fabrication. Adjust length of bars as required when obstructions are encountered.
- G. Buck Anchors (For Anchoring New Masonry To Existing Construction): 1-1/4 x 1/8 x 8 inch long z-type steel buck anchor with 2 inch long right angle bent ends, bolt hole in one bent end, 1.5 oz per sq ft hot dipped galvanized after fabrication. Furnish 3/8 inch diameter galvanized machine bolt and non-ferrous metal expansion shield.

2.05 CLEANING AGENTS

- A. Powder:
1. Trisodium phosphate.
 2. Detergent, biodegradable type.

- B. Liquid: Green Clean-100 by L&W Stone Corp., 1036 South St., Orland, CA 95963, (800)-346-9739, www.lwstonecorp.com or; "Clean As You Go" by Diedtech Technologies, Inc., 7373 S. 6th St., Oak Creek, WI 53154, (800) 323-3565, www.diedrichtechnologies.com.

2.06 SOURCE QUALITY CONTROL

- A. Brick Tests: Test brick in accordance with ASTM C 67. Have tests performed by a qualified independent testing laboratory.

PART 3 EXECUTION

3.01 PREPARATION

- A. Wetting Brick:
 - 1. Wet brick that absorb 20 drops of water (placed in a one inch circle) in less than 90 seconds.
 - 2. One day before use of brick (or several hours in extremely warm weather), play a waterhose on the brick pile until excess water runs off. Allow brick surfaces to dry before use.
- B. Clean loose and foreign materials off supporting surfaces just prior to laying brick.
- C. Protection:
 - 1. Protect face materials against staining.
 - 2. Remove misplaced mortar immediately.
 - 3. Protect sills, ledges, off-sets, and similar items from mortar drippings and other damage during construction.
 - 4. Protect newly laid masonry from exposure to precipitation, excessive drying, freezing, soiling, and other harmful elements.
 - 5. Cover top of walls with non-staining waterproof covering when Work is not in progress. Place with minimum 2 foot overhang of protective covering on each side of wall and securely anchor.

3.02 INSTALLATION

- A. General:
 - 1. Pattern Bond:
 - a. Lay exposed brick in running bond, unless otherwise indicated.
 - b. Bond unexposed brick by lapping units at least 4 inches.
 - 2. Joining of Work:
 - a. When a run of brickwork cannot be completed by the end of the day, stop off horizontal run of brickwork by racking back 1/2 length of unit in each course.
 - b. Tothing is not permitted unless approved in writing by the Director's Representative.
 - c. Where fresh brickwork joins set brickwork, remove loose brick and mortar. Clean and lightly wet exposed bond surfaces of set brickwork.

3. Cutting Brick: Cut exposed brick with a motor-driven saw or by other methods which provide straight and true cuts.
 4. Mortar Joint Thickness:
 - a. Lay brick with 3/8 inch joints.
 - b. Match existing joint thickness.
 5. Joint Tooling:
 - a. Tool exposed joints when "thumb-print" hard with a rounded jointer which is slightly larger than thickness of joint.
 - b. Trowel-point or concave-tool exterior joints below grade.
 - c. Flush-cut all other joints not required to be tooled.
 6. Movement Joints:
 - a. Install expansion joints and control joints as required by the Drawings.
 - b. Keep joints free of mortar and debris.
 - c. Do not bridge expansion joints and control joints in wall system with reinforcement, anchors or ties.
 7. Sealant Recesses:
 - a. Unless otherwise shown on the Drawings, leave 3/4 inch deep by 1/4 inch wide open joints around outside perimeters of exterior door frames, window frames, and other framed wall openings.
 8. Weep Holes:
 - a. Form weep holes in mortar joints of exterior wythe of cavity walls at bottom of cavity over foundations, bond beams, through wall flashings, and other water stops in wall.
 - b. Form weep holes by leaving head joint free and clean of mortar, and raking out bed joint at weep hole.
 - c. Space weep holes approximately 24 inches oc. Keep weep holes free of mortar droppings and other obstructions.
 9. Flashings:
 - a. Clean contact surfaces and remove projections which might puncture the flashing.
 - b. Place flashing on bed of mortar and cover with mortar.
 10. Built-In Work:
 - a. Fit brick closely around built-in Work.
 - b. Except where cavities are required, fill all spaces between built-in Work (including metal frames and structural steel) and brickwork solidly with mortar.
- B. Laying Brick:
1. Unless otherwise required by the design, lay brick plumb, true to line and with level courses accurately spaced within allowable tolerances.
 2. Completely fill mortar joints. Do not furrow bed joints. Butter ends of brick with sufficient mortar to fill head joints. Point closure joints full.
 3. Collar Joints: Except in cavity walls, fill vertical-longitudinal joint between wythes by slushing and rodding the joint full of mortar.
 4. Do not pound corners and jambs to fit stretcher units after they are set in position. Where an adjustment must be made after mortar has started to harden, remove units and clean units and joints of mortar and re-lay with fresh mortar.
- C. Cavity Walls:

1. Keep cavity clean by placing wood strips with attached wire pulls on cross ties. Before placing next level of ties, remove and clean wood strips.
 2. As Work progresses, trowel protruding mortar fins in cavity flat onto inner face of wythe.
- D. Non-Bearing Partitions:
1. Unless otherwise shown on the Drawings, extend partitions from top of structural floor to bottom surface of floor construction. Wedge with small pieces of tile, slate or brick. Fill topmost joint with mortar.
- E. Structural Bonding:
1. Use masonry bond method for corners and intersections of loadbearing brick walls wherever possible.
 2. Anchoring Intersecting Bearing or Shear Walls Required to be Erected Separately:
 - a. Regularly block vertical joint with 8 inch maximum offsets.
 - b. Place tiebars in horizontal joints at not more than 3 foot centers vertically.
 3. Bond multi-wythe brick walls with continuous masonry wall reinforcement, spaced not more than 16 inches vertically. Lap individual lengths of reinforcement 6 inches.
 4. Stack Bond: Embed continuous masonry wall reinforcement in horizontal joints at vertical intervals not to exceed 16 inches. Reinforcement shall have not less than one wire longitudinal rod for each 6 inches of wall (wythe) thickness or fraction thereof. Lap individual lengths of reinforcement 6 inches.
- F. Anchoring Brick to Concrete Unit Masonry:
1. Tie adjacent wythes of masonry walls together with continuous masonry wall reinforcement spaced vertically not more than 16 inches oc. Lap individual lengths of reinforcement 6 inches.
 - a. Where horizontal mortar joints of back-up wythe and face wythe do not align or where one wythe is required to be constructed before the other, tie adjacent wythes of masonry walls together with adjustable wall ties spaced 16 inches vertically and 24 inches horizontally, in conjunction with continuous masonry wall reinforcement.
- G. Anchoring Brick to Concrete:
1. Insert dovetail section of flexible anchors in dovetail anchor slot built into concrete. Space anchors 16 inches oc vertically and 24 inches oc horizontally.
 2. Maintain a space not less than 1/2 inch wide between brick and concrete. Keep space free of mortar and other rigid material to permit differential movement between concrete and brick.
- H. Anchoring Non-Bearing Partitions:
1. Anchor partitions abutting or intersecting other walls or partitions with adjustable wall ties, placed at vertical intervals of not more than 24 inches.

- I. Anchoring Partitions and Infill Abutting Existing Construction: Install buck anchors in bed joints 16 inches oc vertically. Build one bent end into the masonry. Expansion bolt other bent end to existing construction.
- J. Anchoring Brick Veneer to Wood Construction:
 - 1. Use one corrugated wall tie for each 4 sq ft of wall area.
 - 2. Space ties not more than 24 inches horizontally and vertically.
 - 3. Embed ties at least 2 inches in horizontal joint of facing.
 - 4. Install additional ties around openings. Place ties within 12 inches of opening, spaced at not more than 24 inch centers around perimeter.

3.03 TOLERANCES

- A. Maximum Allowable Variation From Plumb:
 - 1. In lines and surfaces of columns, walls and arises:
 - a. 1/4 inch in 10 ft.
 - b. 3/8 inch in any story or 20 ft maximum.
 - c. 1/2 inch in 40 ft.
 - 2. For external corners, expansion joints and other conspicuous lines.
 - a. 1/4 inch in any story or 20 ft maximum.
 - b. 1/2 inch in 40 ft.
- B. Maximum allowable variation from level or grades for exposed lintels, sills, parapets, horizontal grooves, and other conspicuous lines:
 - 1. 1/4 inch in any bay or 20 ft.
 - 2. 1/2 inch in 40 ft.
- C. Maximum allowable variation of linear building line from an established position in plan and related portions of columns, walls and partitions:
 - 1. 1/2 inch in any bay or 20 ft maximum.
 - 2. 3/4 inch in 40 ft.
- D. Maximum allowable variation in cross-sectional dimensions of columns and thickness of walls: Not less than 1/4 inch smaller nor more than 1/2 inch larger than walls.

3.04 FIELD QUALITY CONTROL

- A. Tests: 25 sample bricks of each kind specified may be selected by the Director's Representative from the brick delivered to the site for testing purposes. Package and ship selected sample bricks to the Division of Construction's Albany address for transmittals indicated in Section 013300.

3.05 CLEANING

- A. Dry brush brickwork after mortar has set, at end of each day's Work.
- B. Clean brickwork, using the following steps:
 - 1. Clean initially with stiff brushes and water.

2. If staining or soiling persists, reclean with stiff brushes and a solution of trisodium phosphate, detergent, and water (1/2 cup of each in one gallon of water). Rinse with clean water.
3. If the above methods are unsuccessful, use specified liquid cleaning agent in conformance with the manufacturer's instructions. Test the cleaning agent on a sample area, selected by the Director's Representative. Proceed with the cleaning of the Work after the sample has been approved by the Director's Representative. Protect adjacent non-masonry Work from contact with the cleaning solution.

END OF SECTION

SECTION 042200

CONCRETE UNIT MASONRY

PART 1 GENERAL

1.01 PRODUCTS FURNISHED BUT NOT INSTALLED UNDER THIS SECTION

- A. Dovetail Anchor Slot Concrete Inserts installed under Cast-In-Place Concrete.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Steel Concrete Reinforcement: Section 032100.
- B. Mortar and Grout: Section 040513.
- C. Brick Masonry: Section 042113.

1.03 SUBMITTALS

- A. Shop Drawings:
 - 1. Submit shop drawings for precast concrete or stone caps.
 - 2. Submit placing drawings for bar reinforcement.
- B. Product Data: Catalog sheets, specifications, and installation instructions for masonry flashing.
- C. Samples:
 - 1. Hollow Load-bearing Units (Normal Weight): 6 of each size.
 - 2. Hollow Load-bearing Units (Lightweight): 6 of each size.
 - 3. Solid Load-bearing Units (Lightweight): 6 of each size.
 - 4. Hollow Non-load-bearing Units (Lightweight): 6 of each size.
 - 5. Concrete Building Brick: 2 of each size.
 - 6. Accessories: Each item specified, full size or 24 inch long sections as applicable, except bar reinforcement (if any).
- D. Quality Control Submittals:
 - 1. Test Reports: Certified test reports for concrete masonry units showing that materials for delivery to the Project meet the requirements of these Specifications.
 - 2. Certificates: Bar reinforcement manufacturer's certification that bar material conforms with ASTM A 615 and specified grade.

1.04 QUALITY ASSURANCE

- A. Pre-Installation Meeting: After approval of all submittals and a minimum of 14 days prior to the start of Work, a meeting will be held at the Site for the purpose of reviewing mortar and CMU colorations, reviewing the Contract Documents, and discussing the requirements and procedures for the Work. The following

persons must attend the meeting: The Contractor, the person Supervising this phase of the Work, the Director's Representative, and the Design Structural Engineer. The Director's Representative will provide a meeting agenda and administer the meeting.

- A. Field Examples:
 - 1. Prior to installation of concrete unit masonry, construct a sample concrete unit masonry wall panel at the Site.
 - 2. Build panel 24 inches long by 32 inches high by full wall thickness, with materials, bond, joints, and accessories required for the Work.
 - 3. Construct a separate panel for each kind of exposed concrete masonry unit.
 - 4. Do not start concrete unit masonry Work until the Director's Representative has approved each sample panel.
 - 5. Approved panels will be the standard of workmanship required for all masonry built of the same materials. Failure to maintain this standard will be cause for rejection of the masonry.
 - 6. Maintain approved panels intact until all concrete unit masonry Work has been installed and approved; then remove panel from the Site.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Store masonry units off the ground on platforms that allow air circulation under stacked units.
- B. Cover and protect masonry units against wetting prior to use.
- C. Handle masonry units on pallets or flat bed barrows.

1.06 PROJECT CONDITIONS

- A. Environmental Requirements; Cold Weather Conditions:
 - 1. At temperatures below 40 degrees F, maintain mortar temperature between 40 degrees F and 120 degrees F. If necessary, heat mixing water and sand to produce the required results.
 - 2. At temperatures between 40 degrees F and 32 degrees F, protect masonry from rain and snow for 24 hours after laying.
 - 3. At temperatures between 32 degrees F and 20 degrees F, provide wind breaks and cover the masonry to prevent wetting and freezing. Maintain masonry above freezing for not less than 24 hours using auxiliary heat or insulating blankets.
 - 4. At temperatures below 20 degrees F, provide heated enclosures for laying the masonry. At the end of the workday, maintain the enclosures and keep the Work from freezing for not less than 24 hours.
 - 5. Do not lower freezing point of mortar by use of antifreeze, calcium chloride or other additives.
 - 6. Do not use frozen materials or materials coated with ice or frost.

PART 2 PRODUCTS

2.01 CONCRETE MASONRY UNITS

- A. Hollow Load-Bearing Units: ASTM C 90, Type I.
- B. Solid Load-Bearing Units: ASTM C 90, Type I.
- C. Hollow Non-Load-Bearing Units: ASTM C 129, Type I.
- D. Concrete Building Brick: ASTM C 55, Type I, Grade N.
- E. Architectural Units: ASTM C 55, Type I, Grade N, with net area min average compressive strength of 3500 psi.
 - 1. Scored face units: Four vertical grooves per stretcher unit.
 - 2. Fluted face units: Four vertical flutes per stretcher unit.
 - 3. Split face units: Entire face fractured.
 - 4. Split ribbed face units: Four vertical split ribs per stretcher unit.
 - 5. Nominal face dimensions of stretcher units: 8 x 16 inches.
 - 6. Nominal unit depth: As shown on the Drawings.
 - 7. Construction: Hollow units.
 - 8. Construction: Solid units.
 - 9. Color(s):
- F. Prefaced (Glazed) Units:
 - 1. Conform to ASTM C 744.
 - 2. Facing material shall turn over the edges and ends of the unit at least 3/8 inch in the direction of the thickness of the unit to form a lip at least 1/16 inch thick.
 - 3. Color: As indicated on the drawings or as selected by the Director from the manufacturer's standard color selection.
 - 4. Structural Facing Tile as specified in Section 042123 may be used as an option in lieu of Prefaced (Glazed) Concrete Masonry Units specified in this Section.
- G. Fire Rated Units: Aggregate type and equivalent solid thickness as required to obtain the fire resistance rating indicated. Ratings shall be based on fire tests in accordance with ASTM E 119.
- H. Aggregate:
 - 1. Lightweight Units: ASTM C 331; dry net weight not more than 105 lb per cu ft.
 - 2. Normal Weight Units: ASTM C 33; dry net weight not less than 125 lb per cu ft.
- I. Special Shapes: Units of shape and size required for lintels, corners, jambs, sash, control joints, headers, bonding, and other special conditions indicated.
 - 1. Outside Corners: Square edge units, unless otherwise shown.
 - 2. Outside Corners: Bullnose units.
 - 3. Units for Walls and Partitions to be Vertically Reinforced, Grouted, or Filled with Loose Insulation: Two cell (core) units.

- J. Manufacturer: Obtain masonry units from one manufacturer, of uniform texture and color for each kind required. All concrete masonry units must be certified to contain a minimum of 30 percent pre-consumer (post-industrial) recycled content.

2.02 PRECAST CONCRETE LINTELS

- A. Lintels In Interior Walls Carrying Wall Loads Only: Lightweight concrete, 3000 psi minimum compressive strength at 28 days.
- B. Lintels Exposed On Exterior and Lintels Carrying Floor or Roof Loads: Normal weight concrete, 4000 psi minimum compressive strength at 28 days.
- C. Finishes:
1. Surfaces Not Exposed To View: Smooth form finish.
 2. Interior Surfaces Exposed To View: Grout cleaned finish or match the finish of adjacent concrete masonry units.
 3. Exterior Surfaces Exposed To View: Smooth rubbed finish.
 4. Surfaces To Be Plastered: Roughened surface that will afford firm plaster bond.
- D. Reinforcement: Reinforce precast concrete lintels as shown, or if not shown, as required to support the load in accordance with ACI Standard "Building Code Requirements for Reinforced Concrete" (ACI 318).
1. Bar Reinforcement: ASTM A 615, Grade 60, deformed steel bars.
 2. Fabric Reinforcement: ASTM A 185, welded wire fabric.
 3. Steel Wire: ASTM A 82, cold-drawn plain steel wire.
- E. Bearing: 8 inches minimum bearing at each end, unless otherwise shown on the Drawings.

2.03 ACCESSORIES

- A. Masonry Wall Reinforcement: Joint reinforcement factory fabricated from cold-drawn steel wire, ASTM A 82, truss or ladder design, with 9 gage deformed steel wire longitudinal rods welded to 9 gage steel wire cross ties spaced 16 inches oc; width 1-1/2 to 2 inches less than total wall thickness. Furnish factory-fabricated corner and tee sections for corners and wall intersections.
1. Finish for Exterior Walls: 1.5 oz per sq ft hot dipped galvanized after fabrication, ASTM A 153, Class B-2.
 2. Finish for Interior Walls: 0.8 oz per sq ft mill galvanized, ASTM A 641, Class 3, except interior walls exposed to moist environment shall have finish specified for exterior walls.
 3. Cavity Wall Construction: Ladder design fabricated with drip notch in cross ties centered over the cavity.
 4. For walls with concrete masonry unit back-up wythe, reinforcement shall have a third longitudinal rod located for proper embedment at internal face shell of concrete masonry units.
 5. Provide units with adjustable 2 piece rectangular ties where horizontal joints of facing wythe do not align with those of back-up.

- B. Bar Reinforcement: ASTM A 615, Grade 60, deformed steel bars.
1. Rebar Positioner: Fabricate from galvanized steel wire, 9 gage or 6.5 gage as required. Design to fit concrete masonry units, and number, size and location of rebars indicated. Products; Steel-Wich Telescoping Rebar Positioner or No. 376 Rebar Positioner or No. 377 Rebar Positioner by Heckmann Building Products, Inc., 1501 N. 31st Ave., Melrose Park, IL 60160, (800) 621-4140, www.heckmannbuildingprods.com.
- C. Adjustable Wall Ties: 3/16 inch dia cold-drawn steel wire, ASTM A 82; 2 piece construction consisting of pintle section with 2 legs and corresponding eye section. Maximum clearance between connecting parts shall be 1/16 inch. Wall tie shall be of size for at least 1-1/2 inch embedment into the mortar bed of solid masonry units.
1. Finish for Exterior Walls: 1.5 oz per sq ft hot dipped galvanized after fabrication, ASTM A 153, Class B-2.
 2. Finish for Interior Walls: 0.8 oz per sq ft mill galvanized, ASTM A 641, Class 3, except interior walls exposed to moist environment shall have finish specified for exterior walls.
 3. For solid masonry wythes, provide z-shaped ties.
 4. For composite wythes (face brick with concrete unit masonry backing), provide rectangular shaped ties.
- D. Flexible Anchors: 1.5 oz per sq ft hot dipped galvanized steel anchors which will permit horizontal and vertical movement of masonry but will maintain lateral restraint, and as follows:
1. For Anchorage To Concrete Framework: 2 piece anchors with 12 gage sheet steel dovetail section and rectangular or vee-shaped 3/16 inch dia wire tie section sized to extend to within one inch of face of masonry.
 2. For Anchorage To Steel Framework: 2 piece anchors with crimped 1/4 inch dia bar for welding to steel and rectangular or vee-shaped 3/16 inch dia wire tie section sized to extend to within one inch of face of masonry.
- E. Dovetail Anchor Slot Concrete Inserts: 24 gage galvanized steel, with filler strip; slot sized to fit dovetail anchor.
- F. Tiebars: 1-1/4 x 1/4 x 28 inch long steel bars with 3-inch long right angle bent ends, 1.5 oz per sq ft hot dipped galvanized after fabrication. Adjust length of bars as required when obstructions are encountered.
- G. Buck Anchors (For Anchoring New Masonry To Existing Construction): 1-1/4 x 1/8 x 8 inch long Z type steel buck anchor with 2 inch long right angle bent ends, bolt hole in one bent end, 1.5 oz per sq ft hot dipped galvanized after fabrication. Furnish 3/8-inch diameter galvanized machine bolt and non-ferrous metal expansion shield.
- H. Metal Lath: Galvanized, expanded metal lath weighing not less than 3.4 pounds per square yard.
- I. Hardware Cloth: 16 gage, 1/2 inch square mesh, galvanized steel wire mesh.

- J. Thru-Wall Masonry Flashing: Copper fabric consisting of a single sheet of 7 oz. copper sheet with asphalt impregnated glass fabric bonded to both sides of copper.
 - 1. Joint Sealant: Trowel grade asphalt roofing cement.

- K. Cap flashing With Thru-Wall Cap Flashing Receiver: Three-way mortar bond type receiver with snap fit cap flashing. Acceptable product; “Two-Piece Cap Flashing” by Keystone Flashing Co., 5119 N. Second St., Philadelphia, PA 19120, (800) 526-8348, www.keystoneflashing.com.
 - 1. Lead Coated Copper: 16 oz.
 - 2. Fabricate as indicated on Drawings.

- L. Control Joint Filler: For vertical control joints, close cell neoprene, 1/2 inch thick by 3 inch wide, conforming to ASTM D 1056, RE41 or ASTM D 2056, RE41; NS - Closed Cell Neoprene Sponge by Hohman & Barnard Inc., 30 Rasons Ct., Hauppauge, NY 11788, (800) 645-0616, www.h-b.com; or DA2015 closed cell neoprene by Dur-O-Wal Inc., 7777 Washington Village Dr., Ste. 130, Dayton, OH 45459, (888) 977.9600, www.dur-o-wal.com.

- M. PVC Control Joint: Conform to ASTM D 2287 with a durometer hardness of 85 (+ or - 5) when tested in conformance with ASTM D 2240.

- N. Premoulded Control Joint Strips: Solid rubber strips of profile indicated (to maintain lateral stability of wall); 60-80 Shore A durometer hardness.

- O. Weep Holes: Clear plastic, round tube type, 3/8 inch od x 4 inches long.

- P. Asphalt Felt (For Mortar Control Joints): No. 15 asphalt saturated organic felt; ASTM D 226.

- Q. Clay Flue Lining: ASTM C 315.

2.04 SOURCE QUALITY CONTROL

- A. Tests: Sample and test concrete masonry units in accordance with ASTM C 140 and ASTM C 426. Have tests performed by a qualified independent testing laboratory.

PART 3 EXECUTION

3.01 PREPARATION

- A. Lay out walls and partitions with one course of unit masonry, or other suitable means, to define the spaces, locations of doors and other openings, and to serve as a guide for other trades in the installation of conduits, pipes, etc.

- B. Allow other trades sufficient opportunity to install built-in Work before proceeding with the walls and partitions. Do not cover pipes, conduit, or ductwork in masonry until directed by the Director’s Representative.

- C. Clean off supporting surface under first course of masonry just prior to laying the masonry units.
- D. Protection:
 - 1. Protect face materials against staining.
 - 2. Remove misplaced mortar immediately.
 - 3. Protect sills, ledges, off-sets, and similar items from mortar drippings and other damage during construction.
 - 4. Protect newly laid masonry from exposure to precipitation, excessive drying, freezing, soiling, backfill, and other harmful elements.
 - 5. Cover top of walls with non-staining waterproof covering when Work is not in progress. Place with minimum 2-foot overhang of protective covering on each side of wall and securely anchor.

3.02 INSTALLATION

- A. Install concrete masonry units plumb and true to line in level courses accurately spaced.
- ED.
- B. Lay masonry units in running bond, with vertical joints located at center of units in course below, unless otherwise indicated on the Drawings.
 - C. Lay masonry units in existing concrete unit masonry bond pattern, and match existing coursing and joints.
 - D. Lay only dry masonry units.
 - E. Adjust units to final position while mortar is soft and plastic. Remove units disturbed after mortar has stiffened; clean joints and units of mortar and re-lay in fresh mortar.
 - F. Lay out Work to avoid use of less than half-size units. Where cutting of masonry units is necessary, cut with a power saw.
 - G. Where fresh masonry joins partially or totally set masonry, clean bond surfaces of set masonry, removing loose mortar and foreign material prior to laying fresh masonry.
 - H. If it is necessary to stop off a horizontal run of masonry, rack back one-half unit length in each course. Tothing will not be permitted unless approved in writing by the Director's Representative.
 - I. Cavity Wall Construction: Keep cavities clean of mortar droppings.

3.03 INSTALLATION TOLERANCES

- A. Variation from the Plumb:
 - 1. In the lines and surfaces of columns, walls, and arises:
 - a. In 10 feet: 1/4 inch.
 - b. In any story or 20 feet maximum: 3/8 inch.

- c. In 40 feet or more: 1/2 inch.
- 2. For external corners, control joints, and other conspicuous lines:
 - a. In any story or 20 feet maximum: 1/4 inch.
 - b. In 40 feet or more: 1/2 inch.
- B. Variation from the Level or Grades indicated on the Drawings:
 - 1. For exposed lintels, sills, parapets, horizontal grooves, and other conspicuous lines:
 - a. In any bay or 20 feet maximum: 1/4 inch.
 - b. In 40 feet or more: 1/2 inch.
- C. Variation of the Linear Building Lines from Established Position in Plan and Related Portion of Columns, Walls, and Partitions:
 - 1. In any bay or 20 feet maximum: 1/2 inch.
 - 2. In 40 feet or more: 3/4 inch.
- D. Variation in Cross-sectional Dimensions of Columns and in the Thickness of Walls: Minus 1/4 inch; plus 1/2 inch.
- E. Surface Plane Tolerance for Concrete Unit Masonry to Receive High-build Glazed Coating or Thin-set Tile: 1/8 inch in 10 feet in all directions.

3.04 MORTAR BEDS

- A. Hollow Units:
 - 1. Lay with full mortar coverage on horizontal and vertical face shells.
 - 2. Bed webs in mortar also at the following locations:
 - a. All courses of piers, columns and pilasters.
 - b. Starting course on footings and solid foundation walls.
 - c. Adjacent to cells or cavities to be reinforced or filled.
 - d. Within 1'-6" of each side of openings.
- B. Solid Units: Lay with full mortar coverage on horizontal and vertical joint surfaces.

3.05 JOINTS

- A. Horizontal and Vertical Face Joints:
 - 1. Nominal Thickness: 3/8 inch, unless otherwise indicated.
 - 2. Construct uniform joints.
 - 3. Strike joints flush in surfaces to be plastered, stuccoed, or covered with other masonry or other surface applied finish other than paint and high-build glazed coating.
 - 4. Cut joints flush and tool slightly concave on both sides of other walls and partitions, including inner wythe of exterior cavity walls.
 - 5. Point joints tight in unparged masonry below ground.
- B. Fill horizontal joint between top of masonry partitions and underside of concrete slabs and beams with mortar, unless otherwise shown on the Drawings.

- C. Collar Joints: Except in cavity walls, fill vertical-longitudinal joint between wythes by slushing and rodding the joint full of mortar.
- D. Remove mortar protruding into cells or cavities to be reinforced or filled.

3.06 HORIZONTAL JOINT REINFORCEMENT

- A. Reinforce horizontal joints of concrete unit masonry with continuous masonry wall reinforcement at the following locations:
 - 1. Exterior walls.
 - 2. Interior load-bearing walls.
 - 3. Straight runs of interior non-load-bearing partitions and walls that exceed 20 feet in length or exceed 12 feet in height, including partitions and walls having door and window openings.
 - 4. Joint immediately above and below openings in walls and partitions for a length 4 feet longer than opening.
- B. Install masonry wall reinforcement in horizontal joints as follows:
 - 1. Space reinforcement every 16 inches vertically, except space 8 inches in parapet walls.
 - 2. Straighten kinks or bends in the wires caused by handling, without injury to the material, before placing in masonry.
 - 3. Place longitudinal wires over face shell mortar beds.
 - 4. Embed entire length of longitudinal wires fully in mortar.
 - 5. Provide minimum mortar cover of 5/8 inch on exterior side of exterior walls and 1/2 inch at other locations.
 - 6. Lap ends of adjoining strips of reinforcement 6 inches or more.
 - 7. Install factory fabricated corner and tee sections at corners and wall intersections respectively.
 - 8. Cut reinforcement one inch short of each side of control and expansion joints.
 - 9. Install additional lengths of reinforcement in first unreinforced joint above and below openings, centered on opening.

3.07 TYING ADJACENT WYTHES

- A. Tie adjacent wythes of masonry walls together with continuous masonry wall reinforcement spaced vertically not more than 16 inches oc. Install reinforcement as specified under HORIZONTAL JOINT REINFORCEMENT.
 - 1. Where horizontal mortar joints of back-up wythe and face wythe do not align or where one wythe is required to be constructed before the other, tie adjacent wythes of masonry walls together with adjustable wall ties spaced 16 inches vertically and 24 inches horizontally, in conjunction with continuous masonry wall reinforcement.

3.08 BONDING WITH MASONRY

- A. Bonding of Abutting or Intersecting Walls and Partitions:
 - 1. External Corners: Where partitions and walls form external corners, bond together by alternate lapping of each course of corner unit.

2. Door Openings Near Intersections: Where door openings in abutting partitions or walls are within one foot of the intersection, lay every second course at intersection in masonry bond. Reinforce every second course of intersection with masonry wall reinforcement. Fill all cells between the intersection and the door frame with mortar to the full height of the door.
- B. Bonding Pilasters, Piers, and Columns: Lay every second course in masonry bond. Reinforce every second course with masonry wall reinforcement.

3.09 TYING INTERSECTING WALLS AND PARTITIONS

- A. Except where masonry bond is specified, terminate abutting walls and partitions flush against the face of the abutted walls. Tie intersections at every second course as follows:
1. Load-Bearing Walls: Install tiebars. Embed bent ends in cells filled with mortar. Install pieces of metal lath under the cells to support the mortar fillings.
 2. Non-Load-Bearing Walls: Install ties of masonry wall reinforcement tee sections or strips of hardware cloth embedded in mortar.
 - a. Center standard length masonry wall reinforcement tee sections on the walls.
 - b. Width of hardware cloth strips shall be the width of the abutting wall less 1-1/2 inches; length shall be 24 inches or twice the width of the abutted wall, whichever is greater. Center the strips on the abutting wall and extend across intersection to 3/4 inch from the farthest face of the abutted wall.
- B. Fill vertical joint at abutted walls and partitions solid with mortar at intersection. If a control joint is located at the intersection, rake out both sides of joint to a depth of 3/8 inch.

3.10 ANCHORING

- A. Anchor walls adjoining or intersecting structural framing and dependent upon structural framing for lateral support to structural members with flexible anchors. Build wire tie section into wall and secure other piece of anchor to structural member.
1. Space anchors 16 inches oc, unless otherwise shown on the Drawings.
- B. Anchoring Partitions and Infill Abutting Existing Construction: Install buck anchors in bed joints 16 inches oc vertically. Embed one bent end in cell filled with mortar. Install piece of metal lath under the cell to support the mortar filling. Expansion bolt other bent end to existing construction.

3.11 WEEP HOLES

- A. Install weep holes in mortar joints of exterior wythe of cavity walls along bottom of cavity over foundations, bond beams, through wall flashings, and other water stops in wall.

- B. Install weep holes approximately 32 inches oc. Keep weep holes free of mortar droppings and other obstructions.

3.12 BUILT-IN WORK

- A. Avoid cutting and patching.
- B. Build-in bolts, anchors, nailing blocks, inserts, frames, vents, flashings, conduit and other items as masonry Work progresses.
- C. Fit masonry units closely around built-in Work. Fill voids around built-in items with mortar for anchorage. Solidly fill space between masonry and metal frames with mortar.
- D. Unless otherwise shown on the Drawings, construct 1/4 inch to 3/8 inch wide open joint around outside perimeter of exterior door and window frames and other framed exterior wall openings to receive sealant. Rake joints and tool smooth to a uniform depth of 1/4 inch.
- E. Installing In-Wall Flashings:
 - 1. Clean contact surfaces and remove projections that might puncture the flashing. Place flashing on bed of mortar and cover with mortar.
 - 2. Where bar reinforcement punctures the wall flashing, cut the flashing as close as possible to form a tight fit around the reinforcement.
 - 3. Apply trowel grade asphalt roof cement completely around the penetrations.
 - 4. Place flashings on bed of mortar and cover with mortar.
 - 5. At base of wall only, extend flashing 1/2 inch beyond the face of the wall and turn down at 45 degrees to form a drip at building foundation wall.
 - 6. At all other locations, after the Director's Representative has inspected and approved flashing, cut flashing 1/4 inch beyond the face of the wall and turn down at 45 degrees to form a drip. Retool joint as required.
 - 7. Extend thru wall flashing a minimum of 16 inches vertically up from relieving angle and concrete shelf.
 - 8. Installing Compression Bar: Install a continuous metal compression bar over the flashing where indicated on the Drawings and secure one foot on center. Apply a bead of Type 1 Sealant along the top edge of the flange.
 - 9. Form inside and outside corners using splice pieces. Splice pieces to be a minimum of 12 inches on each side of corner, install in accordance with the manufacturer's printed details, lap ends and edges a minimum of 6 inches, apply trowel grade asphalt roof cement between all flashing layers.
- F. Installing Thru-Wall Cap Flashing Receivers:
 - 1. Set the receiver so there is mortar above and below the built-in portion.
 - 2. Do not mallet, bend or deform the exposed portion.
 - 3. Lap all end joints so they interlock at the first raised rib. Apply Type 3 sealant between the mating surfaces of the built-in portion of the receiver before interlocking end joints.

- G. Installing Cap Flashing in Receivers:
 - 1. Insert the cap flashing into the receiver-locking slot. Apply upward pressure along the entire length of the cap flashing so that it is securely locked into position
- H. Fire Hose and Master Mixing Valve Cabinets: Install and build-in cabinets furnished by the plumbing contractor.
- I. Fire extinguisher Cabinets: Install and build-in cabinets where shown.

3.13 CHASES

- A. Build chases in; do not cut.
- B. Minimum Installation Distance From Jambs of Openings: One concrete masonry unit length.

3.14 CONTROL JOINTS

- A. Install control joints at locations shown on the Drawings. If locations of control joints are not shown, provide vertical control joints spaced not to exceed 35 feet; locate joints at points of natural weakness in the masonry Work.
- B. Mortar Control Joints: Fill abutting cells of masonry units with mortar after installing asphalt felt at one side of joint to break the bond. Rake out joints to a depth of 3/8 inch.
- C. Premoulded Control Joint Strips: Install joint strip as the Work progresses. Compress strips as masonry units are laid.

3.15 EXPANSION JOINTS

- A. Install expansion joints at locations shown on the Drawings. Keep joints free of mortar and debris.
- B. Build flanges of metal expansion strips into masonry. Lap joints between metal strips 4 inches in direction of flow. Solder joints between metal strips below grade and at junctures with horizontal expansion joints.

3.16 LINTELS

- A. Install precast concrete lintels over all openings 14 inches or more in width in masonry walls, except where steel lintels are shown.
- B. Center lintel over opening. Set in full bed of mortar under each end.

3.17 REINFORCING WALLS AND PARTITIONS WITH BAR REINFORCEMENT AND GROUT

- A. Place bar reinforcement in cells and cavities in the masonry where shown on the Drawings. Secure bars in designed locations with rebar positioners.

- B. Grouting: Completely fill cells and cavities in the masonry with grout where shown on the Drawings. Puddle or slightly vibrate grout during placement.
 - 1. Placement Procedure: Use low-lift grouting procedure. Place in lifts or layers up to maximum of 5 feet in height, except where otherwise shown on the Drawings. Stop level of grout in each lift approximately 1-1/2 inches from top of masonry, except the last lift shall finish flush with the top of masonry.

3.18 FIELD QUALITY CONTROL

- A. Tests: 6 sample masonry units of each kind specified may be selected by the Director's Representative from the masonry units delivered to the site for testing purposes. Package and ship selected sample units to the Division of Construction's Albany address for transmittals indicated in Section 013300.

3.19 POINTING AND CLEANING

- A. Cut off mortar projections remaining from tooling joints.
- B. Dry brush masonry Work after mortar has set, at end of each day's Work and after final pointing.
- C. At completion of masonry Work, fill holes in joints (except weep holes) and tool.
- D. Remove and replace CMU that are loose, chipped, broken, stained, or otherwise damaged, or if units do not match adjacent units. Install new units to match adjoining units in fresh mortar, point joints to eliminate any evidence of block replacement.
- E. Cut out and repoint defective joints.
- F. Leave Work and surrounding surfaces clean and free of mortar spots and droppings.

3.20 CONCRETE MASONRY UNIT SCHEDULE

- A. Unless shown otherwise on the Drawings, use the various kinds of concrete masonry units specified at the locations indicated below:
 - 1. Hollow Load-Bearing Units (Normal Weight):
 - a. Use for exposed exterior Work.
 - b. Use for Work in which the same masonry units are exposed on both the interior and exterior.
 - 2. Hollow Load-Bearing Units (Lightweight):
 - a. Use for interior bearing walls, pilasters, piers, and columns, and for interior wythe of exterior bearing walls.
 - 3. Solid Load-Bearing Units (Lightweight):
 - a. Use for stair enclosures, pipe shafts, ventilator shafts, elevator shafts, and dumbwaiter shafts.
 - b. Use for walls supporting wall-hung plumbing fixtures.

- c. Use for enclosing refrigerator spaces. Fill cells completely with mortar or provide 100 percent solid units.
- 4. Hollow Non-Load-Bearing Units (Lightweight):
 - a. Use for interior Work including wall backing, except as otherwise specified above.

END OF SECTION

SECTION 260500 - COMMON WORK RESULTS FOR ELECTRICAL

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Basic Electrical Requirements specifically applicable to Division 26 sections, in addition to Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 RELATED SECTIONS

- A. 260500 Common Work Results for Electrical
- B. 260519 Low-voltage Electrical Power Conductors and Cables
- C. 260526 Grounding and Bonding for Electrical Systems
- D. 260529 Hangers and Supports for Electrical Systems
- E. 260533.13 Conduit for Electrical Systems
- F. 260533.16 Boxes for Electrical Systems
- G. 260553 Identification for Electrical Systems
- H. 260650.16 Lighting Fixture Schedule
- I. 260923 Lighting Control Devices
- J. 263100 Photovoltaic Collectors
- K. 265600 Exterior Lighting
- L. 337116.33 Wood Electrical Utility Poles

1.03 REGULATORY REQUIREMENTS

- A. Products requiring electrical connection: listed and classified by underwriters laboratories, as suitable for the purpose specified and indicated.

1.04 DEFINITIONS

- A. Concealed, Exterior Installations: Concealed from view and protected from weather conditions and physical contact by building occupants, but subject to outdoor ambient temperatures. Examples include installations within unheated shelters.
- B. Exposed, Exterior Installations: Exposed to view outdoors, or subject to outdoor ambient temperatures and weather conditions. Examples include rooftop locations.
- C. Furnish: Contractor shall supply (purchase) item and turn over to others for installation.
- D. Install: Others shall purchase item and the contractor shall place item in position for service and or use.
- E. Provide: Contractor shall furnish (purchase) and completely install item.
- F. Owner: New York State Department of State.
- G. Salvage: Remove unused existing equipment where accessible and offer salvage material to the owner. Owner shall have first right of refusal of salvageable materials removed from the

building. Materials not claimed by the owner shall become the property of the contractor. The contractor shall dispose of material not retained by the owner in a lawful and legal manner away from the site.

- H. Storage: To provide a safe warehousing location to protect equipment and components that are to be implemented as part of the project. This includes but not limited to existing items to be relocated by the owner/contractor and items purchased by the owner/contractor.

1.05 PERFORMANCE

- A. All work shall be performed in cooperation with the Owner, Architect and other separate contractors. The contractor shall coordinate work with the construction schedule established by the Owner and Architect, and shall immediately report any delays in materials receipt including circumstances causing the delays.

1.06 SUBMITTALS

- A. Refer to Division 01.
 - 1. Submittal procedures.
 - 2. Shop Drawings and Samples.
 - 3. Submittal procedures.
 - 4. Coordination Drawings.
- B. Product Data: For products listed under Part 2 of Division 26 technical specifications.
- C. Welding certificates.
- D. Coordination Drawings: Provide drawings to include but not limited to:
 - 1. Drawings coordinating light fixtures.
 - 2. Provide plans, sections and wall elevations for all mechanical and equipment rooms.
- E. Submit to architect/engineer for review for the limited purpose of checking for conformance with information given and the design concept expressed in the contract documents.
- F. Submit the number of copies which the contractor requires, plus three copies which will be retained by the architect/engineer.
- G. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this project. Submittals that are not properly marked with all pertinent information identified will be returned.
- H. Submit printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, to the architect/engineer for product data.
- I. Product data: published literature: Indicate dimensions, weights, capacities, ratings, gages and finishes of materials, electrical characteristics and connection requirements.
- J. Shop drawings: Indicate assembly, dimensions, weight loading, required clearances, construction details, field connection details, electrical characteristics and connection requirements.
- K. Manufacturer's instructions: Include installation instructions.
- L. Maintenance data: Include instructions for lubrication, replacement parts, motor and drive replacement, spare parts lists, and wiring diagrams.

- M. In addition, the submittal shall bear the project name, the contractor's name, the date reviewed by the contractor, the contractor's control number (if applicable), and a stamp with the contractor's signature certifying that the item has been reviewed and it complies with the requirements of the contract documents.
- N. Any submittals not clearly marked as indicated above will be returned to the contractor for resubmission.

1.07 CLOSEOUT SUBMITTALS

- A. Provide 3-ring binder with the following items to be used as facility Operation and Maintenance Manual.
 - 1. Product Data: Provide one copy of final approved product data for products listed under Part 2 of Division 26 technical specifications.
 - 2. Manufacturer's instructions: Including installation instructions.
 - 3. Manufacturer's data: Include instructions for lubrication, replace parts, motor and drive replacement, spare parts list, and wiring diagrams.

1.08 SUBSTITUTIONS

- A. Submittal of substitute equipment performance data shall be made in strict adherence to the requirements set forth in Section AIA Document A201.

1.09 SEQUENCING AND SCHEDULING

- A. Coordinate electrical equipment installation with other building components.
- B. Arrange for openings in building structure during progress of construction to allow for electrical installations.
- C. Sequence, coordinate, and integrate installations of electrical materials and equipment for efficient flow of the Work.
- D. Coordinate requirements for access panels and doors if electrical items requiring access are concealed behind finished surfaces.

1.10 QUALITY ASSURANCE

- A. Electrical Characteristics for HVAC Equipment: Equipment of higher electrical characteristics may be furnished provided such proposed equipment is approved in writing and connecting electrical services, circuit breakers, and conduit sizes are appropriately modified. If minimum energy ratings or efficiencies are specified, equipment shall comply with requirements.
- B. Furnish and install necessary equipment and materials required to provide a complete electrical system as shown on the Drawings.
- C. System shall be in place tested (as specified), inspected and approved by all authorities having jurisdiction (where applicable).
- D. Materials furnished and installations made under this specification shall conform to applicable requirements of the codes, regulations and standards described herein, unless specifically described otherwise.
- E. If any codes, standards or regulations conflict, the most stringent shall apply.

- F. Systems shall comply with the latest version and associated references standards of the following codes:
 - 1. Systems shall comply with the latest version and associated references standards of the following codes:
 - a. 2020 Energy Conservation Construction Code of New York State
 - b. 2020 Property Maintenance Code of New York State
 - 2. Systems shall comply with the latest version of the following codes referenced standards:
 - a. NFPA 70 – 2017 National Electrical Code
 - b. NFPA 101 – 2018 Life Safety Code
- G. Materials and equipment installations shall comply with standards of:
 - 1. National Fire Protection Agency (NFPA).
 - 2. Local Utilities.
 - 3. Owner's Insurance Underwriters.
 - 4. Applicable Government Agencies and Departments.
 - 5. Underwriters Laboratory (UL).
 - 6. Federal and State Occupational Safety and Health Act (OSHA).
 - 7. Local Municipality.
 - 8. Local Fire Department.
 - 9. ANSI - American National Standards Institute.
 - 10. ASTM Regulations and Standards for pipe, fittings, pressure vessels, testing and insulation.
 - 11. Conformance with the applicable codes, rules and regulations of the State of New York, NYCRR, Code Rule 4 and Code Rule 14, pertaining to boilers, gas and oil burners, controls and protective devices.
 - 12. Electrically powered equipment shall comply with the National Electric Code (NEC) and shall be UL listed for the intended usage.
- H. Interpretations
 - 1. The Engineer shall provide advisory interpretations to the code regulations as requested by the contractor during construction.
 - 2. The Department of State are the “Authorities having Jurisdiction” Construction must comply with their requirements. Work discovered not to be in compliance to the Authorities interpretation of the code regulations shall be corrected by the contractor at no additional cost to the owner.
 - 3. The Department of State code interpretations and construction requirements shall supersede that of the Engineer.
- I. Manufacturer qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
- J. Approved Manufacturers:
 - 1. A listed approved manufacturer does not relieve or relax any specification requirements.
 - 2. Manufactures listed in the specifications and/or under addendum still must fully comply with the technical description as described in the project documents.

3. Inferior manufacturer's standard offerings of products will not be accepted in lieu of the specified product.
4. The Landscape Architect/Engineer shall make the final judgment in determining if a product meets the full intent of the specifications.

1.11 CONNECTIONS

- A. Furnish and install utilities serving equipment which is to be furnished by others in accordance with the sizes and locations shown on the drawings complete with final connections including provisions for shut-off and adapters as required.
- B. Furnish and install required conduit and fittings as noted or specified.
- C. Provide disconnects at each unit.

1.12 STRUCTURAL SUPPORTS

- A. Furnish and install brackets and/or supports for the electrical installations in excess of building structure as shown on drawings. Where detail is not shown, submit shop drawings of intended construction for approval.

1.13 DELIVERY, STORAGE, AND HANDLING

- A. Deliver conduits with factory-applied end caps. Maintain end caps through shipping, storage, and handling to prevent pipe end damage and to prevent entrance of dirt, debris, and moisture.
- B. Store plastic pipes protected from direct sunlight. Support to prevent sagging and bending.
- C. Accept products on site in factory-fabricated protective containers, with factory-installed shipping skids and lifting lugs. Inspect for damage.
- D. Store in clean dry place and protect from weather and construction traffic. Handle carefully to avoid damage to components, enclosures, and finish.

1.14 COORDINATION

- A. Layout of equipment, conduits, etc. is diagrammatic. Check project drawings prior to making installations for interferences with other trades. Should the contractor find such interferences, he shall be responsible for coordinating his work with the other responsible trades. Owner reserves the right to make reasonable changes prior to "roughing-in" without added expense. Dimensions shown are subject to verification of exact site conditions.
- B. Coordinate installation of required supporting devices and set sleeves in poured-in-place concrete and other structural components as they are constructed.

1.15 PROJECT CONDITIONS

- A. Contract Drawings are in part diagrammatic, intended to convey to the Contractor for the Electrical Work, the scope of work and indicate general arrangement of equipment. Follow these drawings in laying out the work. Verify spaces in which the work will be installed.
- B. Verify location of existing utilities before proceeding with the work.
- C. Proposed conduit routing to match existing materials being connected into unless noted otherwise.
- D. Verify scope of work: Contractor shall visit the job site prior to submitting a bid to ascertain existing field conditions and to determine the scope of the work, and to become familiar with

the existing conditions that will affect his work and, therefore, the bid. Additional cost resulting from the contractor's failure to verify the scope of the work shall be the contractor's responsibility and shall be paid by the contractor.

- E. Erect and maintain temporary partitions to prevent spread of dust, odors, and noise to permit continued owner occupancy throughout the building.
- F. Work areas are to be kept free of debris at all times and are to be left broom clean at the end of each working day.
- G. Adjacent areas are to be protected from dust and debris.
- H. Contractor shall obtain and pay for required permits from authorities.
- I. Conform to applicable code for the work described within the construction documents. Base bid amount shall include additional work required by the authorities having jurisdiction pertaining to the completion of this project.
- J. Contractors shall follow owner's safety requirements during construction.
- K. Conform to owner's safety procedures if hazardous or contaminated materials are discovered.
- L. The owner shall direct the contractor where to store salvaged items, equipment and materials removed from the work area.
- M. The owner shall direct the contractor where construction materials and equipment to be installed shall be staged and stockpiled during construction.
- N. The work specified herein and indicated on drawings shall be completed, tested and made ready for operation prior to turn over to the owner. Unless specifically indicated, materials and equipment shall be new and first class quality.

1.16 SYSTEMS

- A. The contractor shall be responsible to provide complete and operable systems, including operational properties to the extent necessary to link multiple components of a system together and to interface with other systems.

1.17 BASIS OF DESIGN EQUIPMENT

- A. Drawings equipment schedules. Add the following general note
 1. Manufacturer and Model number of equipment included in schedule is the basis of design for project.
 2. Adjustment shall be made by the contractor for equipment other than the bases of design to comply the installed equipment manufacturer's requirements.
- B. Project Manual
 1. Manufacturers
 - a. Manufacturer and Model number of equipment included in specifications is the basis of design for project.
 - b. Adjustment shall be made by the contractor for equipment other than the bases of design to comply the installed equipment manufacturer's requirements.

1.18 SALVAGED ITEMS

- A. Remove all unused existing equipment where accessible and offer all salvage material to the owner.
- B. Owner shall have first right of refusal of all salvageable materials removed from the building and/or site.
- C. Materials not claimed by the owner shall become the property of the contractor.
- D. The contractor shall dispose of all material not retained by the owner in a lawful and legal manner away from the site
- E. Items salvaged shall be moved and stored in a location as directed by the owner.
- F. The owner shall direct the contractor where to store salvaged items, equipment and materials removed from the work area.
- G. At the start of the project, the Owner and contractor shall survey the building and identify all items to be salvaged and turn over to the owner

PART 2 PRODUCTS

2.01 MATERIALS

- A. All materials and equipment shall be in strict accordance with the parameters hereinafter specified and as shown on the drawings.
- B. Materials and equipment furnished/provided shall be new unless noted otherwise.

2.02 ACCESSORIES

- A. It is the intent of this specification that systems and equipment shall be complete with all accessories required to insure a complete system.

2.03 ELECTRICAL CONNECTIONS

- A. The contractor for Electrical equipment shall provide required motor disconnects and starters for equipment motors unless specified and noted elsewhere.
- B. It is the Electrical contractor's responsibility to coordinate with the other contractors to determine what components are to be provided by each contractor.
- C. Equipment that may require starters and disconnects shall include but not be limited to fans, pumps, air handlers, compressors, terminal units, etc.
- D. Electrical components provided shall be in compliances and sized in accordance with the National Electrical Code NFPA 70.
 - 1. Electrical equipment shall be UL listed.
 - 2. Division 26 shall provide all wiring to equipment connections.

2.04 MANUFACTURERS

- A. In other Part 2 articles where subparagraph titles below introduce lists, the following requirements apply for product selection:
 - 1. Acceptable Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the manufacturers specified.

2. Basis of Design: Subject to compliance with requirements, provide products by the manufacturers specified.

PART 3 EXECUTION

3.01 DEMOLITION

- A. Refer to specification Sections for "Cutting and Patching" and Division 02 Section "Selective Structure Demolition" for general demolition requirements and procedures.
- B. Disconnect, demolish, and remove systems, equipment, and components indicated to be removed.
 1. Conduit to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining conduit with same or compatible piping material.
 2. Conduit to Be Abandoned in Place: Drain piping and cap or plug conduit with same or compatible piping material.
 3. Equipment to Be Removed: Disconnect and cap services and remove equipment.
 4. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make equipment operational.
 5. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and deliver to Owner.
- C. The layout of conduit, equipment etc. is diagrammatic in nature. Not all components are shown on the drawings.
- D. Contractor shall notify the owner in advance of any shutdown necessary of the existing systems. Minimum notification time shall be 72 hours.
- E. Do not disable or disrupt building systems without 3 days prior written notice to owner.
- F. Provide temporary services to maintain existing systems in service during construction.
- G. Abandoned and inactive components shall be removed back to their active main or area and terminated. Including but not limited to the following conduit, raceways, or other system components shall be removed.

3.02 INSTALLATION

- A. Unless otherwise noted or specified, materials and equipment shall be installed in strict accordance with the manufacturer's instructions and recommendations.
- B. Do not scale Drawings.
- C. The location of new conduit and raceways are approximate. The exact location of conduit and equipment shall be determined in the field to:
 - a. Provide manufacturer's recommended clearances.
 - b. Avoid interference with existing conditions.
 - c. Avoid interference with new work of other trades.
- D. Provide additional fittings as required to effect required changes direction and elevation.
- E. Provide additional offsets and fittings as required to accommodate obstructions that are to remain.

- F. Do not cut any structural building member without permission of the Architect/Engineer.
- G. Work on existing systems that are to remain active during construction shall be coordinated with owner's field representative.
- H. Contractor is responsible for verification of all dimensions.
- I. The layout of conduit, boxes, equipment etc. is diagrammatic in nature. Provide required offsets to accommodate obstructions and final system placement.
- J. The drawings do not show all offsets or fittings required for installation. Schematic diagrams convey the configuration and system components, but not all of the fittings required for the final installation are shown.

3.03 PROTECTION

- A. All materials, equipment and accessories shall be suitably protected and covered during construction.
- B. Damage responsibility: The contractor shall be responsible for any loss or damage caused by him or his workmen to the area during the course of construction, and shall be fully responsible for repairing or replacing as required to insure restoration to original condition.
- C. Damaged items: Where items scheduled for reuse are found to be in damaged condition, the contractor shall call the attention of the owner to such items and receive further instructions prior to removal. Items damaged during removal shall be repaired or replaced by the contractor at no additional cost to the owner.
- D. Repair damages: Promptly repair damage to adjacent facilities by demolition operations at no cost to the owner.

3.04 EQUIPMENT INSTALLATION - COMMON REQUIREMENTS

- A. Install equipment level and plumb, parallel and perpendicular to other area systems and components in exposed exterior spaces, unless otherwise indicated.
- B. Install equipment to facilitate service, maintenance, and repair or replacement of components. Connect equipment for ease of disconnecting, with minimum interference to other installations. Extend grease fittings to accessible locations.

3.05 PAINTING AND FINISHING

- A. Damage and Touchup: Repair marred and damaged factory-painted finishes with materials and procedures to match original factory finish.

3.06 CONCRETE BASES

- A. Concrete Bases: Anchor equipment to concrete base according to equipment manufacturer's written instructions and according to seismic codes at Project.
 - 1. Construct concrete bases of dimensions indicated, but not less than 4 inches larger in both directions than supported unit.
 - 2. Install dowel rods to connect concrete base to concrete floor. Unless otherwise indicated, install dowel rods on 18-inch centers around the full perimeter of the base.
 - 3. Install epoxy-coated anchor bolts for supported equipment that extend through concrete base, and anchor into structural concrete floor.

4. Place and secure anchorage devices. Use supported equipment manufacturer's setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
5. Install anchor bolts to elevations required for proper attachment to supported equipment.
6. Install anchor bolts according to anchor-bolt manufacturer's written instructions.
7. Use 3000-psi, 28-day compressive-strength concrete and reinforcement as specified in Division 03 Section "Cast-in-Place Concrete Miscellaneous Cast-in-Place Concrete".

3.07 ERECTION OF METAL SUPPORTS AND ANCHORAGES

- A. Cut, fit, and place miscellaneous metal supports accurately in location, alignment, and elevation to support and anchor materials and equipment.
- B. Field Welding: Comply with AWS D1.1.

3.08 ERECTION OF WOOD SUPPORTS AND ANCHORAGES

- A. Cut, fit, and place wood grounds, nailers, blocking, and anchorages to support, and anchor materials and equipment.
- B. Select fastener sizes that will not penetrate members if opposite side will be exposed to view or will receive finish materials. Tighten connections between members. Install fasteners without splitting wood members.
- C. Attach to substrates as required to support applied loads.

3.09 GROUTING

- A. Clean surfaces that will come into contact with grout.
- B. Provide forms as required for placement of grout.
- C. Avoid air entrapment during placement of grout.
- D. Place grout, completely filling equipment bases.
- E. Place grout on concrete bases and provide smooth bearing surface for equipment.
- F. Place grout around anchors.
- G. Cure placed grout.

3.10 INSPECTIONS

- A. The Contractor shall have:
 1. Required local or municipal inspection processed and present Owner with certificate indicating approval of such governing bodies.

END OF SECTION

SECTION 260526 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Grounding and bonding requirements.
- B. Conductors for grounding and bonding.
- C. Connectors for grounding and bonding.
- D. Ground rod electrodes.

1.02 RELATED REQUIREMENTS

- A. Section 260519 - Low-Voltage Electrical Power Conductors and Cables: Additional requirements for conductors for grounding and bonding, including conductor color coding.
- B. Section 260553 - Identification for Electrical Systems: Identification products and requirements.
- C. Section 263100 - Photovoltaic Collectors: Additional grounding and bonding requirements for photovoltaic systems.
- D. Section 265600 - Exterior Lighting: Additional grounding and bonding requirements for pole-mounted luminaires.

1.03 REFERENCE STANDARDS

- A. NECA 1 - Standard for Good Workmanship in Electrical Construction; 2015.
- B. NEMA GR 1 - Grounding Rod Electrodes and Grounding Rod Electrode Couplings; 2022.
- C. NETA ATS - Standard For Acceptance Testing Specifications For Electrical Power Equipment And Systems; 2021.
- D. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- E. UL 467 - Grounding and Bonding Equipment; Current Edition, Including All Revisions.

1.04 SUBMITTALS

- A. Product Data: Provide manufacturer's standard catalog pages and data sheets for grounding and bonding system components.
- B. Field quality control test reports.

1.05 QUALITY ASSURANCE

- A. Comply with requirements of NFPA 70.

PART 2 PRODUCTS

2.01 GROUNDING AND BONDING REQUIREMENTS

- A. Do not use products for applications other than as permitted by NFPA 70 and product listing.

- B. Unless specifically indicated to be excluded, provide all required components, conductors, connectors, conduit, boxes, fittings, supports, accessories, etc. as necessary for a complete grounding and bonding system.
- C. Where conductor size is not indicated, size to comply with NFPA 70 but not less than applicable minimum size requirements specified.
- D. Bonding and Equipment Grounding:
 - 1. Provide bonding for equipment grounding conductors, equipment ground busses, metallic equipment enclosures, metallic raceways and boxes, device grounding terminals, and other normally non-current-carrying conductive materials enclosing electrical conductors/equipment or likely to become energized as indicated and in accordance with NFPA 70.
 - 2. Where circuit conductor sizes are increased for voltage drop, increase size of equipment grounding conductor proportionally in accordance with NFPA 70.
 - 3. Unless otherwise indicated, connect wiring device grounding terminal to branch circuit equipment grounding conductor and to outlet box with bonding jumper.
 - 4. Terminate branch circuit equipment grounding conductors on solidly bonded equipment ground bus only. Do not terminate on neutral (grounded) or isolated/insulated ground bus.
 - 5. Provide bonding jumper across expansion or expansion/deflection fittings provided to accommodate conduit movement.

2.02 GROUNDING AND BONDING COMPONENTS

- A. General Requirements:
 - 1. Provide products listed, classified, and labeled as suitable for the purpose intended.
 - 2. Provide products listed and labeled as complying with UL 467 where applicable.
- B. Conductors for Grounding and Bonding, in Addition to Requirements of Section 260526:
 - 1. Use insulated copper conductors unless otherwise indicated.
 - a. Exceptions:
 - 1) Use bare copper conductors where installed underground in direct contact with earth.
 - 2) Use bare copper conductors where directly encased in concrete (not in raceway).
- C. Connectors for Grounding and Bonding:
 - 1. Description: Connectors appropriate for the application and suitable for the conductors and items to be connected; listed and labeled as complying with UL 467.
 - 2. Unless otherwise indicated, use exothermic welded connections for underground, concealed and other inaccessible connections.
 - 3. Unless otherwise indicated, use mechanical connectors, compression connectors, or exothermic welded connections for accessible connections.
- D. Ground Rod Electrodes:
 - 1. Comply with NEMA GR 1.
 - 2. Material: Copper-bonded (copper-clad) steel.
 - 3. Size: 3/4 inch diameter by 10 feet length, unless otherwise indicated.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that work likely to damage grounding and bonding system components has been completed.
- B. Verify that field measurements are as indicated.
- C. Verify that conditions are satisfactory for installation prior to starting work.

3.02 INSTALLATION

- A. Install products in accordance with manufacturer's instructions.
- B. Perform work in accordance with NECA 1 (general workmanship).
- C. Ground Rod Electrodes: Unless otherwise indicated, install ground rod electrodes vertically. Where encountered rock prohibits vertical installation, install at 45 degree angle or bury horizontally in trench at least 30 inches (750 mm) deep in accordance with NFPA 70 or provide ground plates.
- D. Make grounding and bonding connections using specified connectors.
 - 1. Remove appropriate amount of conductor insulation for making connections without cutting, nicking or damaging conductors. Do not remove conductor strands to facilitate insertion into connector.
 - 2. Remove nonconductive paint, enamel, or similar coating at threads, contact points, and contact surfaces.
 - 3. Exothermic Welds: Make connections using molds and weld material suitable for the items to be connected in accordance with manufacturer's recommendations.
 - 4. Mechanical Connectors: Secure connections according to manufacturer's recommended torque settings.
 - 5. Compression Connectors: Secure connections using manufacturer's recommended tools and dies.
- E. Identify grounding and bonding system components in accordance with Section 260553.

3.03 FIELD QUALITY CONTROL

- A. Inspect and test in accordance with NETA ATS except Section 4.
- B. Perform inspections and tests listed in NETA ATS, Section 7.13.
- C. Perform ground electrode resistance tests under normally dry conditions. Precipitation within the previous 48 hours does not constitute normally dry conditions.
- D. Investigate and correct deficiencies where measured ground resistances do not comply with specified requirements.

END OF SECTION

SECTION 260533.13 - CONDUIT FOR ELECTRICAL SYSTEMS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Galvanized steel rigid metal conduit (RMC).
- B. PVC-coated galvanized steel rigid metal conduit (RMC).

1.02 RELATED REQUIREMENTS

- A. Section 260519 - Low-Voltage Electrical Power Conductors and Cables: Cable assemblies consisting of conductors protected by integral metal armor.
- B. Section 260526 - Grounding and Bonding for Electrical Systems.
- C. Section 260529 - Hangers and Supports for Electrical Systems.
- D. Section 260533.16 - Boxes for Electrical Systems.
- E. Section 260553 - Identification for Electrical Systems: Identification products and requirements.

1.03 REFERENCE STANDARDS

- A. ANSI C80.1 - American National Standard for Electrical Rigid Steel Conduit (ERSC); 2020.
- B. NECA 1 - Standard for Good Workmanship in Electrical Construction; 2015.
- C. NECA 101 - Standard for Installing Steel Conduits (Rigid, IMC, EMT); 2020.
- D. NEMA FB 1 - Fittings, Cast Metal Boxes, and Conduit Bodies for Conduit, Electrical Metallic Tubing, and Cable; 2014.
- E. NEMA RN 1 - Polyvinyl-Chloride (PVC) Externally Coated Galvanized Rigid Steel Metal Conduit and Intermediate Metal Conduit; 2018.
- F. NEMA TC 3 - Polyvinyl Chloride (PVC) Fittings for Use with Rigid PVC Conduit and Tubing; 2021.
- G. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- H. UL 6 - Electrical Rigid Metal Conduit-Steel; Current Edition, Including All Revisions.
- I. UL 514A - Metallic Outlet Boxes; Current Edition, Including All Revisions.
- J. UL 514B - Conduit, Tubing, and Cable Fittings; Current Edition, Including All Revisions.
- K. UL 651 - Schedule 40, 80, Type EB and A Rigid PVC Conduit and Fittings; Current Edition, Including All Revisions.
- L. UL 2419 - Outline of Investigation for Electrically Conductive Corrosion Resistant Compounds; Current Edition, Including All Revisions.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:

1. Coordinate minimum sizes of conduits with actual type and quantity of conductors to be installed, including adjustments for conductor sizes increased for voltage drop.
 2. Coordinate arrangement of conduits with structural members, ductwork, piping, equipment, and other potential conflicts.
 3. Verify exact conduit termination locations required for boxes, enclosures, and equipment.
 4. Coordinate work to provide roof penetrations that preserve integrity of roofing system and do not void roof warranty.
 5. Notify landscape Architect of conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.
- B. Sequencing:
1. Do not begin installation of conductors and cables until installation of conduit between termination points is complete.

1.05 SUBMITTALS

- A. See Section 013000 - Administrative Requirements for submittals procedures.
- B. Product Data: Provide manufacturer's standard catalog pages and data sheets for conduits and fittings.
- C. Project Record Documents: Record actual routing for conduits installed underground, conduits embedded within concrete slabs, and conduits 2-inch (53 mm) trade size and larger.

1.06 QUALITY ASSURANCE

- A. Documents at Project Site: Maintain at project site one copy of manufacturer's instructions and shop drawings.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Receive, inspect, handle, and store conduit and fittings in accordance with manufacturer's instructions.

PART 2 PRODUCTS

2.01 CONDUIT - GENERAL REQUIREMENTS

- A. Comply with NFPA 70.
- B. Provide conduit, fittings, supports, and accessories required for complete raceway system.
- C. Provide products listed, classified, and labeled as suitable for purpose intended.
- D. Minimum Conduit Size, Unless Otherwise Indicated:
 1. Branch Circuits: 3/4-inch trade size.
 2. Branch Circuit Homeruns: 3/4-inch trade size.
 3. Underground, Exterior: 1-inch trade size.
- E. Where conduit size is not indicated, size to comply with NFPA 70 but not less than applicable minimum size requirements specified.

2.02 GALVANIZED STEEL RIGID METAL CONDUIT (RMC)

- A. Description: NFPA 70, Type RMC galvanized steel rigid metal conduit complying with ANSI C80.1 and listed and labeled as complying with UL 6.

- B. Fittings:
 - 1. Nonhazardous Locations: Use fittings complying with NEMA FB 1 and listed and labeled as complying with UL 514B or UL 6.
 - 2. Material: Use steel or malleable iron.
 - a. Where not subject to severe corrosive influence, stainless steel or aluminum fittings may be used.
 - b. Do not use die cast zinc fittings.
 - 3. Connectors and Couplings: Use threaded type fittings only. Threadless fittings, including set screw and compression/gland types, are not permitted.

2.03 PVC-COATED GALVANIZED STEEL RIGID METAL CONDUIT (RMC)

- A. Description: NFPA 70, Type RMC galvanized steel rigid metal conduit with external polyvinyl chloride (PVC) coating complying with NEMA RN 1 and listed and labeled as complying with UL 6.
- B. Exterior Coating: Polyvinyl chloride (PVC), nominal thickness of 40 mil, 0.040 inch.
- C. Interior Coating: Urethane, minimum thickness of 2 mil, 0.002 inch.
- D. PVC-Coated Boxes and Fittings:
 - 1. Manufacturer: Same as manufacturer of PVC-coated conduit to be installed.
 - 2. Nonhazardous Locations: Use boxes and fittings listed and labeled as complying with UL 514A, UL 514B, or UL 6.
 - 3. Material: Use steel or malleable iron.
 - 4. Exterior Coating: Polyvinyl chloride (PVC), minimum thickness of 40 mil, 0.040 inch.
 - 5. Interior Coating: Urethane, minimum thickness of 2 mil, 0.002 inch.
- E. PVC-Coated Supports: Furnish with exterior coating of polyvinyl chloride (PVC), minimum thickness of 15 mil, 0.015 inch.

2.04 ACCESSORIES

- A. Corrosion Protection Tape: PVC-based, minimum thickness of 20 mil, 0.020 inch.
- B. Conduit Joint Compound: Corrosion-resistant, electrically conductive compound listed as complying with UL 2419; suitable for use with conduit to be installed.
- C. Solvent Cement for PVC Conduit and Fittings: As recommended by manufacturer of conduit and fittings to be installed.
- D. Pull Strings: Use nylon or polyester tape with average breaking strength of not less than 1,250 lbf.
- E. Conduit Mechanical Seals:
 - 1. Listed as complying with UL 514B.
 - 2. Specifically designed for sealing conduit openings against water, moisture, gases, and dust.
 - 3. Suitable for sealing around conductors/cables to be installed.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that field measurements are as indicated.
- B. Verify that mounting surfaces are ready to receive conduits.
- C. Verify that conditions are satisfactory for installation prior to starting work.

3.02 INSTALLATION

- A. Install products in accordance with manufacturer's instructions.
- B. Install conduit in accordance with NECA 1.
- C. Galvanized Steel Rigid Metal Conduit (RMC): Install in accordance with NECA 101.
- D. PVC-Coated Galvanized Steel Rigid Metal Conduit (RMC): Install using only tools approved by manufacturer.
- E. Conduit Routing:
 1. Unless dimensioned, conduit routing indicated is diagrammatic.
 2. When conduit destination is indicated without specific routing, determine exact routing required.
 3. Conduits installed underground or embedded in concrete may be routed in shortest possible manner unless otherwise indicated. Route other conduits parallel or perpendicular to building structure and surfaces, following surface contours where practical.
- F. Conduit Support:
 1. Secure and support conduits in accordance with NFPA 70 using suitable supports and methods approved by authorities having jurisdiction; see Section 260529.
 2. Provide independent support from building structure. Do not provide support from piping, ductwork, or other systems.
- G. Connections and Terminations:
 1. Use approved zinc-rich paint or conduit joint compound on field-cut threads of galvanized steel conduits prior to making connections.
 2. Where two threaded conduits must be joined and neither can be rotated, use three-piece couplings or split couplings. Do not use running threads.
 3. Use suitable adapters where required to transition from one type of conduit to another.
 4. Terminate threaded conduits in boxes and enclosures using threaded hubs or double lock nuts for dry locations and raintight hubs for wet locations.
 5. Provide insulating bushings, insulated throats, or listed metal fittings with smooth, rounded edges at conduit terminations to protect conductors.
 6. Secure joints and connections to provide mechanical strength and electrical continuity.
- H. Penetrations:
 1. Do not penetrate or otherwise notch or cut structural members, including footings and grade beams, without approval of Structural Engineer.
 2. Make penetrations perpendicular to surfaces unless otherwise indicated.
 3. Provide sleeves for penetrations as indicated or as required to facilitate installation. Set sleeves flush with exposed surfaces unless otherwise indicated or required.

4. Conceal bends for conduit risers emerging above ground.
 5. Where conduits penetrate waterproof membrane, seal as required to maintain integrity of membrane.
- I. Underground Installation:
1. Minimum Cover, Unless Otherwise Indicated or Required:
 - a. Underground, Exterior: 18 inches.
 2. Provide underground warning tape along entire conduit length for service entrance where not concrete-encased; see Section 260553.
- J. Conduit Movement Provisions: Where conduits are subject to movement, provide expansion and expansion/deflection fittings to prevent damage to enclosed conductors or connected equipment. This includes, but is not limited to:
1. Where conduits cross structural joints intended for expansion, contraction, or deflection.
 2. Where conduits are subject to earth movement by settlement or frost.
- K. Conduit Sealing:
1. Use foam conduit sealant to prevent entry of moisture and gases. This includes, but is not limited to:
 - a. Where conduits may transport moisture to contact live parts.
 2. Where conduits cross barriers between areas of potential substantial temperature differential, use foam conduit sealant at accessible point near penetration to prevent condensation. This includes, but is not limited to:
 - a. Where conduits pass from outdoors into conditioned interior spaces.
- L. Provide grounding and bonding; see Section 260526.

3.03 FIELD QUALITY CONTROL

- A. Repair cuts and abrasions in galvanized finishes using zinc-rich paint recommended by manufacturer. Replace components that exhibit signs of corrosion.
- B. Where coating of PVC-coated galvanized steel rigid metal conduit (RMC) contains cuts or abrasions, repair in accordance with manufacturer's instructions.
- C. Correct deficiencies and replace damaged or defective conduits.

3.04 CLEANING

- A. Clean interior of conduits to remove moisture and foreign matter.

3.05 PROTECTION

- A. Immediately after installation of conduit, use suitable manufactured plugs to provide protection from entry of moisture and foreign material and do not remove until ready for installation of conductors.

END OF SECTION

SECTION 260533.16 - BOXES FOR ELECTRICAL SYSTEMS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Outlet and device boxes up to 100 cubic inches, including those used as junction and pull boxes.
- B. Cabinets and enclosures, including junction and pull boxes larger than 100 cubic inches.
- C. Underground boxes/enclosures.

1.02 RELATED REQUIREMENTS

- A. Section 260526 - Grounding and Bonding for Electrical Systems.
- B. Section 260529 - Hangers and Supports for Electrical Systems.
- C. Section 260533.13 - Conduit for Electrical Systems:
 - 1. Conduit bodies and other fittings.
 - 2. Additional requirements for locating boxes to limit conduit length and/or number of bends between pulling points.
- D. Section 260553 - Identification for Electrical Systems: Identification products and requirements.

1.03 REFERENCE STANDARDS

- A. NECA 1 - Standard for Good Workmanship in Electrical Construction; 2015.
- B. NECA 130 - Standard for Installing and Maintaining Wiring Devices; 2016.
- C. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum); 2020.
- D. NEMA FB 1 - Fittings, Cast Metal Boxes, and Conduit Bodies for Conduit, Electrical Metallic Tubing, and Cable; 2014.
- E. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- F. SCTE 77 - Specifications for Underground Enclosure Integrity; 2023.
- G. UL 50 - Enclosures for Electrical Equipment, Non-Environmental Considerations; Current Edition, Including All Revisions.
- H. UL 50E - Enclosures for Electrical Equipment, Environmental Considerations; Current Edition, Including All Revisions.
- I. UL 508A - Industrial Control Panels; Current Edition, Including All Revisions.

1.04 SUBMITTALS

- A. Product Data: Provide manufacturer's standard catalog pages and data sheets for cabinets and enclosures, boxes for hazardous (classified) locations, floor boxes, and underground boxes/enclosures.

- B. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, and installation of product.

1.05 QUALITY ASSURANCE

- A. Comply with requirements of NFPA 70.
- B. Maintain at the project site a copy of each referenced document that prescribes execution requirements.
- C. Product Listing Organization Qualifications: An organization recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL) and acceptable to authorities having jurisdiction.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Receive, inspect, handle, and store products in accordance with manufacturer's instructions.

PART 2 PRODUCTS

2.01 BOXES

- A. General Requirements:
 - 1. Do not use boxes and associated accessories for applications other than as permitted by NFPA 70 and product listing.
 - 2. Provide all boxes, fittings, supports, and accessories required for a complete raceway system and to accommodate devices and equipment to be installed.
 - 3. Provide products listed, classified, and labeled as suitable for the purpose intended.
 - 4. Where box size is not indicated, size to comply with NFPA 70 but not less than applicable minimum size requirements specified.
 - 5. Provide grounding terminals within boxes where equipment grounding conductors terminate.
- B. Outlet and Device Boxes Up to 100 cubic inches, Including Those Used as Junction and Pull Boxes:
 - 1. Use sheet-steel boxes for dry locations unless otherwise indicated or required.
 - 2. Use cast iron boxes or cast aluminum boxes for damp or wet locations unless otherwise indicated or required; furnish with compatible weatherproof gasketed covers.
 - 3. Use suitable concrete type boxes where flush-mounted in concrete.
 - 4. Cast Metal Boxes: Comply with NEMA FB 1, and list and label as complying with UL 514A; furnish with threaded hubs.
- C. Cabinets and Enclosures, Including Junction and Pull Boxes Larger Than 100 cubic inches:
 - 1. Comply with NEMA 250, and list and label as complying with UL 50 and UL 50E, or UL 508A.
 - 2. NEMA 250 Environment Type, Unless Otherwise Indicated:
 - 3. Junction and Pull Boxes Larger Than 100 cubic inches:
 - a. Provide screw-cover or hinged-cover enclosures unless otherwise indicated.
- D. Underground Boxes/Enclosures:

1. Description: In-ground, open bottom boxes furnished with flush, non-skid covers with legend indicating type of service and stainless steel tamper resistant cover bolts.
2. Size: As indicated on drawings.
3. Depth: As required to extend below frost line to prevent frost upheaval, but not less than 12 inches.
4. Applications:
 - a. Sidewalks and Landscaped Areas Subject Only to Occasional Nondeliberate Vehicular Traffic: Use polymer concrete enclosures, with minimum SCTE 77 Tier 8 load rating.
 - b. Parking Lots, in Areas Subject Only To Occasional Nondeliberate Vehicular Traffic: Use polymer concrete enclosures, with minimum SCTE 77 Tier 15 load rating.
5. Polymer Concrete Underground Boxes/Enclosures: Comply with SCTE 77.
 - a. Combination fiberglass/polymer concrete boxes/enclosures are acceptable.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that field measurements are as indicated.
- B. Verify that mounting surfaces are ready to receive boxes.
- C. Verify that conditions are satisfactory for installation prior to starting work.

3.02 INSTALLATION

- A. Install products in accordance with manufacturer's instructions.
- B. Install boxes in accordance with NECA 1 (general workmanship) and, where applicable, NECA 130, including mounting heights specified in those standards where mounting heights are not indicated.
- C. Arrange equipment to provide minimum clearances in accordance with manufacturer's instructions and NFPA 70.
- D. Box Supports:
 1. Secure and support boxes in accordance with NFPA 70 and Section 260529 using suitable supports and methods approved by the authority having jurisdiction.
 2. Provide independent support from building structure except for cast metal boxes (other than boxes used for fixture support) supported by threaded conduit connections in accordance with NFPA 70. Do not provide support from piping, ductwork, or other systems.
- E. Install boxes plumb and level.
- F. Flush-Mounted Boxes:
 1. Install boxes in noncombustible materials such as concrete, tile, gypsum, plaster, etc. so that front edge of box or associated raised cover is not set back from finished surface more than 1/4 inch or does not project beyond finished surface.

2. Repair rough openings around boxes in noncombustible materials such as concrete, tile, gypsum, plaster, etc. so that there are no gaps or open spaces greater than 1/8 inch at the edge of the box.
- G. Install boxes as required to preserve insulation integrity.
- H. Underground Boxes/Enclosures:
 1. Install enclosure on gravel base, minimum 6 inches deep.
 2. Install additional bracing inside enclosures in accordance with manufacturer's instructions to minimize box sidewall deflections during backfilling. Backfill with cover bolted in place.
- I. Install permanent barrier between ganged wiring devices when voltage between adjacent devices exceeds 300 V.
- J. Close unused box openings.
- K. Provide grounding and bonding in accordance with Section 260526.

3.03 CLEANING

- A. Clean interior of boxes to remove dirt, debris, plaster and other foreign material.

3.04 PROTECTION

- A. Immediately after installation, protect boxes from entry of moisture and foreign material until ready for installation of conductors.

END OF SECTION

SECTION 260553 - IDENTIFICATION FOR ELECTRICAL SYSTEMS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Electrical identification requirements.
- B. Identification nameplates and labels.
- C. Wire and cable markers.
- D. Voltage markers.
- E. Underground warning tape.
- F. Warning signs and labels.

1.02 RELATED REQUIREMENTS

- A. Section 260519 - Low-Voltage Electrical Power Conductors and Cables: Color coding for power conductors and cables 600 V and less; vinyl color coding electrical tape.
- B. Section 263100 - Photovoltaic Collectors: Additional identification requirements for photovoltaic systems.

1.03 REFERENCE STANDARDS

- A. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- B. UL 969 - Marking and Labeling Systems; Current Edition, Including All Revisions.

PART 2 PRODUCTS

2.01 IDENTIFICATION REQUIREMENTS

- A. Identification for Equipment:
 - 1. Use identification nameplate to identify each piece of electrical distribution and control equipment and associated sections, compartments, and components.
- B. Identification for Conductors and Cables:
 - 1. Color Coding for Power Conductors 600 V and Less: Comply with Section 260519.
 - 2. Use identification nameplate or identification label to identify color code for ungrounded and grounded power conductors inside door or enclosure at each piece of feeder or branch-circuit distribution equipment when premises has feeders or branch circuits served by more than one nominal voltage system.

2.02 IDENTIFICATION NAMEPLATES AND LABELS

- A. Identification Nameplates:
 - 1. Materials:
 - a. Outdoor Locations: Use plastic, stainless steel, or aluminum nameplates suitable for exterior use.
 - 2. Plastic Nameplates: Two-layer or three-layer laminated acrylic or electrically non-conductive phenolic with beveled edges; minimum thickness of 1/16 inch; engraved text.

3. Stainless Steel Nameplates: Minimum thickness of 1/32 inch; engraved or laser-etched text.
 4. Mounting Holes for Mechanical Fasteners: Two, centered on sides for sizes up to 1 inch high; Four, located at corners for larger sizes.
- B. Identification Labels:
1. Materials: Use self-adhesive laminated plastic labels; UV, chemical, water, heat, and abrasion resistant.
 2. Text: Use factory pre-printed or machine-printed text. Do not use handwritten text unless otherwise indicated.

2.03 WIRE AND CABLE MARKERS

- A. Markers for Conductors and Cables: Use wrap-around self-adhesive vinyl cloth, wrap-around self-adhesive vinyl self-laminating, heat-shrink sleeve, plastic sleeve, plastic clip-on, or vinyl split sleeve type markers suitable for the conductor or cable to be identified.
- B. Markers for Conductor and Cable Bundles: Use plastic marker tags secured by nylon cable ties.
- C. Legend: Power source and circuit number or other designation indicated.
- D. Text: Use factory pre-printed or machine-printed text, all capitalized unless otherwise indicated.
- E. Minimum Text Height: 1/8 inch.
- F. Color: Black text on white background unless otherwise indicated.

2.04 VOLTAGE MARKERS

- A. Minimum Size:
- B. Legend:
- C. Color: Black text on orange background unless otherwise indicated.

2.05 UNDERGROUND WARNING TAPE

- A. Materials: Use non-detectable type polyethylene tape suitable for direct burial, unless otherwise indicated.
- B. Non-detectable Type Tape: 6 inches wide, with minimum thickness of 4 mil.
- C. Legend: Type of service, continuously repeated over full length of tape.
- D. Color:
 1. Tape for Buried Power Lines: Black text on red background.

2.06 WARNING SIGNS AND LABELS

- A. Comply with ANSI Z535.2 or ANSI Z535.4 as applicable.
- B. Warning Signs:
 1. Materials:
 - a. Outdoor Locations: Use factory pre-printed rigid aluminum signs.
 2. Rigid Signs: Provide four mounting holes at corners for mechanical fasteners.

3. Minimum Size: 7 by 10 inches unless otherwise indicated.
- C. Warning Labels:
1. Materials: Use factory pre-printed or machine-printed self-adhesive polyester or self-adhesive vinyl labels; UV, chemical, water, heat, and abrasion resistant; produced using materials recognized to UL 969.
 2. Machine-Printed Labels: Use thermal transfer process printing machines and accessories recommended by label manufacturer.
 3. Minimum Size: 2 by 4 inches unless otherwise indicated.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install products in accordance with manufacturer's instructions.
- B. Install identification products to be plainly visible for examination, adjustment, servicing, and maintenance. Unless otherwise indicated, locate products as follows:
 1. Conductors and Cables: Legible from the point of access.
- C. Install identification products centered, level, and parallel with lines of item being identified.
- D. Secure nameplates to exterior surfaces of enclosures using stainless steel screws and to interior surfaces using self-adhesive backing or epoxy cement.
- E. Install self-adhesive labels and markers to achieve maximum adhesion, with no bubbles or wrinkles and edges properly sealed.
- F. Install underground warning tape above buried lines with one tape per trench at 3 inches below finished grade.
- G. Secure rigid signs using stainless steel screws.

3.02 FIELD QUALITY CONTROL

- A. Replace self-adhesive labels and markers that exhibit bubbles, wrinkles, curling or other signs of improper adhesion.

END OF SECTION

SECTION 260923 - LIGHTING CONTROL DEVICES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Outdoor photo controls.
- B. Accessories.

1.02 RELATED REQUIREMENTS

- A. Section 260519 - Low-Voltage Electrical Power Conductors and Cables.
- B. Section 260526 - Grounding and Bonding for Electrical Systems.
- C. Section 260529 - Hangers and Supports for Electrical Systems
- D. Section 260533.16 - Boxes for Electrical Systems.
- E. Section 260553 - Identification for Electrical Systems: Identification products and requirements.
- F. Section 265600 - Exterior Lighting.

1.03 REFERENCE STANDARDS

- A. ANSI C136.10 - American National Standard for Roadway and Area Lighting Equipment - Locking-Type Photocontrol Devices and Mating Receptacles - Physical and Electrical Interchangeability and Testing; 2023.
- B. ANSI C136.24 - American National Standard for Roadway and Area Lighting Equipment - Nonlocking (Button) Type Photocontrols; 2020.
- C. NECA 1 - Standard for Good Workmanship in Electrical Construction; 2015.
- D. NECA 130 - Standard for Installing and Maintaining Wiring Devices; 2016.
- E. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- F. UL 773 - Plug-in, Locking Type Photocontrols for Use with Area Lighting; Current Edition, Including All Revisions.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
 - 1. Coordinate lighting control device product selections with luminaire characteristics; see Section 265100 and lighting fixture schedule.
 - 2. Notify Architect of conflicts or deviations from Contract Documents to obtain direction prior to proceeding with work.

1.05 SUBMITTALS

- A. See Section 013000 - Administrative Requirements, for submittal procedures.

- B. Product Data: Include ratings, operating modes or sequence of functions, configurations, standard wiring diagrams, dimensions, colors, service condition requirements, and installed features.

1.06 QUALITY ASSURANCE

- A. Comply with NFPA 70.
- B. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum three years documented experience.
- C. Product Evaluation and Listing Organization Qualifications: Organization engaged in evaluation of products and services, including those recognized by OSHA as Nationally Recognized Testing Laboratories (NRTL), and acceptable to authorities having jurisdiction.

1.07 DELIVERY, STORAGE, AND PROTECTION

- A. Store products in clean, dry space in original manufacturer's packaging in accordance with manufacturer's written instructions until ready for installation.

1.08 FIELD CONDITIONS

- A. Maintain field conditions within manufacturer's required service conditions during and after installation.

1.09 WARRANTY

- A. See Section 017800 - Closeout Submittals, for additional warranty requirements.
- B. Provide five year manufacturer warranty for utility grade locking receptacle-mounted outdoor photo controls.

PART 2 PRODUCTS

2.01 LIGHTING CONTROL DEVICES - GENERAL REQUIREMENTS

- A. Provide products listed, classified, and labeled as suitable for purpose intended.
- B. Unless specifically indicated as excluded, provide components necessary for complete operating system including, but not limited to, conduit, wiring, connectors, hardware, and accessories.

2.02 OUTDOOR PHOTO CONTROLS

- A. Manufacturers:
 - 1. Intermatic, Inc: www.intermatic.com/#sle.
 - 2. NSI Industries LLC: www.nsiindustries.com/#sle.
 - 3. Substitutions: See Section 016000 - Product Requirements.
- B. Locking Receptacle-Mounted Outdoor Photo Controls
 - 1. Description: Plug-in locking type photo control unit complying with ANSI C136.10 for mounting on compatible receptacle, listed and labeled as complying with UL 773.
 - 2. Housing: Weatherproof, impact resistant UV stabilized polypropylene, color to be selected.
 - 3. Photo Sensor: Cadmium sulfide.

4. Light Level Activation: 1 to 3 footcandles turn-on and 1.5 to 1 turn-off to turn-on ratio with instant turn-on and delayed turn-off.
5. Voltage: As required to control load indicated on drawings.
6. Failure Mode: Fails to the on position.
7. Load Rating: As required to control load indicated on drawings.
8. Surge Protection: 160 joule metal oxide varistor.
9. Provide the following accessories where indicated or as required to complete installation:
 - a. Receptacle: Complying with ANSI C136.10.
 - b. Mounting Bracket.
 - c. Shorting Cap: Suitable for replacing locking photo control to complete circuit.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that field measurements are as indicated.
- B. Verify that outlet boxes are installed in proper locations and at proper mounting heights and are properly sized to accommodate devices and conductors in accordance with NFPA 70.
- C. Verify that final surface finishes are complete, including painting.
- D. Verify that branch circuit wiring installation is completed, tested, and ready for connection to lighting control devices.
- E. Verify that service voltage and ratings of lighting control devices are appropriate for service voltage and load requirements at location to be installed.
- F. Verify that conditions are satisfactory for installation prior to starting work.

3.02 INSTALLATION

- A. Install lighting control devices in accordance with NECA 1 (general workmanship) and, where applicable, NECA 130, including mounting heights specified in those standards unless otherwise indicated.
- B. Coordinate locations of outlet boxes as required for installation of lighting control devices; see Section 260533.16.
- C. Maintain separation of remote-control, signaling, and power-limited circuits.
 1. See manufacturer instructions and Section 260519 for control wiring conductors, wiring methods, and identification requirements.
- D. Install lighting control devices in accordance with manufacturer's instructions.
- E. Unless otherwise indicated, connect lighting control device grounding terminal or conductor to branch circuit equipment grounding conductor and to outlet box with bonding jumper.
- F. Install lighting control devices plumb and level, and held securely in place.
- G. Provide required supports; see Section 260529.
- H. Outdoor Photo Control Locations:
 1. Where possible, locate outdoor photo controls with photo sensor facing north. If north facing photo sensor is not possible, install with photo sensor facing east, west, or down.

2. Locate outdoor photo controls so that photo sensors do not face artificial light sources, including light sources controlled by photo control itself.
- I. Install outdoor photo controls so that connections are weatherproof. Do not install photo controls with conduit stem facing up in order to prevent infiltration of water into photo control.

3.03 FIELD QUALITY CONTROL

- A. See Section 014000 - Quality Requirements, for additional requirements.
- B. Inspect each lighting control device for damage and defects.
- C. Test outdoor photo controls to verify proper operation, including time delays where applicable.
- D. Correct wiring deficiencies and replace damaged or defective conductors, cables, and lighting control devices.

3.04 ADJUSTING

- A. Adjust devices to be flush and level.

3.05 CLEANING

- A. Clean exposed surfaces to remove dirt, paint, or other foreign material and restore to match original factory finish.

3.06 CLOSEOUT ACTIVITIES

- A. See Section 017800 - Closeout Submittals, for closeout submittals.
- B. Training: Train Owner's personnel on operation, adjustment, programming, and maintenance of lighting control devices.
 1. Use operation and maintenance manual as training reference, supplemented with additional training materials as required.

END OF SECTION

SECTION 265600 - EXTERIOR LIGHTING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Luminaires.
- B. LED drivers.
- C. Poles and accessories.
- D. Luminaire accessories.

1.02 RELATED REQUIREMENTS

- A. Section 033000 - Cast-in-Place Concrete: Materials and installation requirements for concrete bases for poles.
- B. Section 260526 - Grounding and Bonding for Electrical Systems.
- C. Section 260529 - Hangers and Supports for Electrical Systems.
- D. Section 260533.16 - Boxes for Electrical Systems.
- E. Section 260923 - Lighting Control Devices.
 - 1. Includes automatic controls for lighting including outdoor photo controls.

1.03 REFERENCE STANDARDS

- A. AASHTO LTS - Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals; 2013, with Editorial Revision (2022).
- B. ANSI C136.10 - American National Standard for Roadway and Area Lighting Equipment - Locking-Type Photocontrol Devices and Mating Receptacles - Physical and Electrical Interchangeability and Testing; 2023.
- C. ANSI O5.1 - American National Standard for Wood Poles: Specifications and Dimensions; 2022.
- D. IEEE C2 - National Electrical Safety Code(R) (NESC(R)); 2023.
- E. IES LM-63 - Approved Method: IES Standard File Format for the Electronic Transfer of Photometric Data and Related Information; 2019.
- F. IES LM-79 - Approved Method: Optical and Electrical Measurements of Solid-State Lighting Products; 2019.
- G. IES LM-80 - Approved Method: Measuring Maintenance of Light Output Characteristics of Solid-State Light Sources; 2021.
- H. IES RP-8 - Recommended Practice: Lighting Roadway and Parking Facilities; 2022.
- I. NECA 1 - Standard for Good Workmanship in Electrical Construction; 2015.
- J. NECA/IESNA 501 - Standard for Installing Exterior Lighting Systems; 2000 (Reaffirmed 2006).

- K. NEMA 410 - Performance Testing for Lighting Controls and Switching Devices with Electronic Drivers and Discharge Ballasts; 2023.
- L. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- M. UL 1598 - Luminaires; Current Edition, Including All Revisions.
- N. UL 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products; Current Edition, Including All Revisions.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
 - 1. Coordinate placement of poles and associated foundations with utilities, curbs, sidewalks, trees, walls, fences, striping, etc. installed under other sections or by others. Coordinate elevation to obtain specified foundation height.
 - 2. Notify Landscape Architect of any conflicts or deviations from Contract Documents to obtain direction prior to proceeding with work.

1.05 SUBMITTALS

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's standard catalog pages and data sheets including detailed information on luminaire construction, dimensions, ratings, finishes, mounting requirements, listings, service conditions, photometric performance, weight, effective projected area (EPA), and installed accessories; include model number nomenclature clearly marked with all proposed features.
 - 1. LED Luminaires:
 - a. Include estimated useful life, calculated based on IES LM-80 test data.
 - b. Include IES LM-79 test report upon request.
 - 2. Provide electronic files of photometric data certified by a National Voluntary Laboratory Accreditation Program (NVLAP) lab or independent testing agency in IES LM-63 standard format upon request.
 - 3. Poles: Include information on maximum supported effective projected area (EPA) and weight for the design wind speed.
- C. Certificates for Poles and Accessories: Manufacturer's documentation that products are suitable for the luminaires to be installed and comply with designated structural design criteria.
- D. Field Quality Control Reports.
 - 1. Include test report indicating measured illumination levels.
- E. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, installation, and starting of product.
- F. Operation and Maintenance Data: Instructions for each product including information on replacement parts.

- G. Project Record Documents: Record actual connections and locations of pole foundations, luminaires, and any pull or junction boxes.

1.06 QUALITY ASSURANCE

- A. Comply with requirements of NFPA 70.
- B. Maintain at the project site a copy of each referenced document that prescribes execution requirements.
- C. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
- D. Product Listing Organization Qualifications: An organization recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL) and acceptable to authorities having jurisdiction.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Receive, handle, and store products according to NECA/IESNA 501 and manufacturer's written instructions.
- B. Keep products in original manufacturer's packaging and protect from damage until ready for installation.

1.08 WARRANTY

- A. See Section 017800 - Closeout Submittals, for additional warranty requirements.
- B. Provide 5-year manufacturer warranty for all LED luminaires, including drivers.

PART 2 PRODUCTS

2.01 LUMINAIRE TYPES

- A. Furnish products as indicated in luminaire schedule included on the drawings.
- B. Substitutions: See Section 016000 - Product Requirements.

2.02 LUMINAIRES

- A. Manufacturers:
 - 1. Per drawing Lighting Fixture Schedule (Basis-Of-Design).
 - 2. Substitutions: See Section 016000 - Product Requirements.
- B. Provide products that comply with requirements of NFPA 70.
- C. Provide products that are listed and labeled as complying with UL 1598, where applicable.
- D. Provide products listed, classified, and labeled as suitable for the purpose intended.
- E. Unless otherwise indicated, provide complete luminaires including LED(s) and all drivers, reflectors, lenses, housings and other components required to position, energize and protect the lamp and distribute the light.
- F. Unless specifically indicated to be excluded, provide all required conduit, boxes, wiring, connectors, hardware, poles, foundations, supports, trims, accessories, etc. as necessary for a complete operating system.

- G. Provide products suitable to withstand normal handling, installation, and service without any damage, distortion, corrosion, fading, discoloring, etc.
- H. Provide luminaires listed and labeled as suitable for wet locations unless otherwise indicated.
- I. LED Luminaires:
 - 1. Components: UL 8750 recognized or listed as applicable.
 - 2. Tested in accordance with IES LM-79 and IES LM-80.
 - 3. LED Estimated Useful Life: Minimum of 50,000 hours at 70 percent lumen maintenance, calculated based on IES LM-80 test data.
- J. Exposed Hardware: Stainless steel.

2.03 DRIVERS

- A. Drivers - General Requirements:
 - 1. Provide drivers containing no polychlorinated biphenyls (PCBs).
 - 2. Minimum Efficiency/Efficacy: Provide drivers complying with all current applicable federal and state LED drivers efficiency/efficacy standards.
 - 3. Electronic Drivers: Inrush currents not exceeding peak currents specified in NEMA 410.
- B. Dimmable LED Drivers:
 - 1. Dimming Range: Continuous dimming from 100 percent to five percent relative light output unless dimming capability to lower level is indicated, without flicker.
 - 2. Control Compatibility: Fully compatible with the dimming controls to be installed.

2.04 POLES

- A. All Poles:
 - 1. Provide poles and associated support components suitable for the luminaire(s) and associated supports and accessories to be installed.
 - 2. Structural Design Criteria:
 - a. Comply with AASHTO LTS.
 - b. Wind Load: Include effective projected area (EPA) of luminaire(s) and associated supports and accessories to be installed.
- B. Metal Poles: Provide ground lug, accessible from handhole or transformer base.

2.05 ACCESSORIES

- A. Stems for Suspended Luminaires: Steel tubing, size as indicated, factory finished to match luminaire or field-painted as directed.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that field measurements are as indicated.
- B. Verify that outlet boxes are installed in proper locations and at proper mounting heights and are properly sized to accommodate conductors in accordance with NFPA 70.
- C. Verify that suitable support frames are installed where required.

- D. Verify that branch circuit wiring installation is completed, tested, and ready for connection to luminaires.
- E. Verify that conditions are satisfactory for installation prior to starting work.

3.02 INSTALLATION

- A. Coordinate locations of outlet boxes provided under Section 260533.16 as required for installation of luminaires provided under this section.
- B. Perform work in accordance with NECA 1 (general workmanship).
- C. Install products in accordance with manufacturer's instructions.
- D. Install luminaires in accordance with NECA/IESNA 501.
- E. Provide required support and attachment in accordance with Section 260529.
- F. Install luminaires plumb and square and aligned with building lines and with adjacent luminaires.
- G. Pole-Mounted Luminaires:
 - 1. Maintain the following minimum clearances:
 - a. Comply with IEEE C2.
 - b. Comply with utility company requirements.
 - 2. Foundation-Mounted Poles:
 - a. Provide cast-in-place concrete foundations for poles as indicated, in accordance with Section 033000.
 - 1) Install anchor bolts plumb per template furnished by pole manufacturer.
 - 2) Position conduits to enter pole shaft.
 - b. Install foundations plumb.
 - c. Install poles plumb, using leveling nuts or shims as required to adjust to plumb.
 - d. Tighten anchor bolt nuts to manufacturer's recommended torque.
 - e. Install non-shrink grout between pole anchor base and concrete foundation, leaving small channel for condensation drainage.
 - 3. Grounding:
 - a. Bond luminaires, metal accessories, metal poles, and foundation reinforcement to branch circuit equipment grounding conductor.
 - 4. Install separate service conductors, 12 AWG copper, from each luminaire down to handhole for connection to branch circuit conductors.
- H. Install accessories furnished with each luminaire.
- I. Bond products and metal accessories to branch circuit equipment grounding conductor.
- J. Install lamps in each luminaire.

3.03 FIELD QUALITY CONTROL

- A. See Section 014000 - Quality Requirements, for additional requirements.
- B. Inspect each product for damage and defects.
- C. Operate each luminaire after installation and connection to verify proper operation.

- D. Correct wiring deficiencies and repair or replace damaged or defective products. Repair or replace excessively noisy ballasts as determined by Architect.
- E. Measure illumination levels at night with calibrated meters to verify compliance with performance requirements. Record test results in written report to be included with submittals.

3.04 ADJUSTING

- A. Aim and position adjustable luminaires to achieve desired illumination as indicated or as directed by Architect. Secure locking fittings in place.

3.05 CLEANING

- A. Clean surfaces according to NECA/IESNA 501 and manufacturer's instructions to remove dirt, fingerprints, paint, or other foreign material and restore finishes to match original factory finish.

3.06 CLOSEOUT ACTIVITIES

- A. See Section 017900 - Demonstration and Training, for additional requirements.
- B. Demonstration: Demonstrate proper operation of luminaires to Architect, and correct deficiencies or make adjustments as directed.

3.07 PROTECTION

- A. Protect installed luminaires from subsequent construction operations.

END OF SECTION

SECTION 310000

EARTHWORK

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

- A. Site Restoration: Section 310101.
- B. Topsoil: Section 329120.
- C. Seeding: Section 329219.

1.02 DEFINITIONS

- A. The following terms shall have the meanings ascribed to them in this Article, wherever they appear in this Section.
 - 1. Earth Excavation: The removal of all surface and subsurface material not classified as rock (as defined below).
 - 2. Rock: Limestone, sandstone, shale, granite, and similar material in solid beds or masses in its original or stratified position which can be removed only by blasting operations, drilling, wedging, or use of pneumatic tools, and boulders with a volume greater than 1.0 cu yd. Concrete building foundations and concrete slabs, not indicated, with a volume greater than 1.0 cu yd shall be classified as rock.
 - a. Limestone, sandstone, shale, granite, and similar material in a broken or weathered condition which can be removed with an excavator or backhoe equipped with a bucket with ripping teeth or any other style bucket shall be classified as earth excavation.
 - b. Masonry building foundations, whether indicated or not, shall be classified as earth excavation.
 - 3. Subgrade Surface: Surface upon which subbase or topsoil is placed.
 - 4. Subbase: Select granular material or subbase course Type 2 which is placed immediately beneath pavement or concrete slabs.
 - 5. Foundation Bearing Grade: Grade/elevation at which the bottom-of-footings are constructed.
 - 6. Maximum Density: The dry unit weight in pounds per cubic foot of the soil at "Optimum Moisture Content" when determined by ASTM D 698 (Standard Proctor).
 - 7. Structures: Buildings, footings, foundations, retaining walls, slabs, tanks, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below the ground surface.
 - 8. Landscaped Areas: Areas not covered by structures, walks, roads, paving, or parking.
 - 9. Unauthorized Excavation: The removal of material below required elevation indicated on the Drawings or beyond lateral dimensions indicated or specified without specific written direction by the Director's Representative.
 - 10. Grading Limit Line (Shown on Drawings): Limits of grading, excavations and filling required for the work of this contract. Unless

specifically noted otherwise, the Grading Limit Line and Contract Limit Line shall be considered the same.

1.03 SUBMITTALS

- A. Product Data:
 - 1. Filter Fabric: Manufacturer's catalog sheets, specifications, and installation instructions.

- B. Samples:
 - 1. Select Granular Material: 50 - 60 lb. (Two Samples).
 - 2. Subbase Course Type 2: 50 - 60 lb. (Two Samples).
 - 3. Selected Fill: 40 - 50 lb.
 - 4. Cushion Material: 30 lb.
 - 5. Crushed Stone: 30 lb.
 - 6. Pea Gravel: 40 – 50 lb.

- C. Quality Control Submittals:
 - 1. Excavation Procedure: Submit a lay out drawing or detailed outline of intended excavation procedure for the Director's information. This submittal will not relieve the Contractor of responsibility for the successful performance of intended excavation methods.
 - 2. Subbase Materials: Name and location of source and the DOT Source Number. If the material is not being taken from an approved DOT Source the results of the gradation and soundness tests performed by an ASTM certified soils laboratory will be required.
 - 3. Other Aggregates: Name and location of source and soil laboratory test results.

1.04 PROJECT CONDITIONS

- A. Protect existing trees and plants during performance of the Work unless otherwise indicated. Box trees and plants indicated to remain within the grading limit line with temporary steel fencing or solidly constructed wood barricades as required. Protect root systems from smothering. Do not store excavated material or allow vehicular traffic or parking within the branch drip line. Restrict foot traffic to prevent excessive compaction of soil over root systems.

- B. Cold Weather Requirements:
 - 1. Excavation: When freezing temperatures are anticipated, do not excavate to final required elevations for concrete work unless concrete can be placed immediately.
 - 2. Backfilling: If backfill is being placed during freezing temperatures the backfilling operations shall be monitored by the Director's Representative, and the following procedures shall be followed:
 - a. Frozen ground shall be removed in its entirety from beneath and five feet beyond the area of fill placement.
 - b. The fill material placed shall consist of Selected Fill and shall be free of all frozen chunks that exceed four inches in size. The material transported to the project site shall only consist of material excavated from below the frost depth.

- c. At the end of the work day, the area of fill placement shall be covered with insulated blankets or left unprotected. Other means of protection (hay, wood chips, etc.) may also be used for protection provided it is approved by the Director's Representative.
- d. Following work day, remove the insulated blankets and/or strip the area of all frozen material as specified previously.
- e. Upon establishing the subgrade elevations, protect the grades with insulated blankets or place additional material that will adequately insulate the exposed earth surface from frost. This additional fill or protective material shall be stripped just prior to pouring concrete.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Select Granular Material: Stockpiled, sound, durable, sand, gravel, stone, or blends of these materials, free from organic and other deleterious materials. Comply with the gradation and material requirements specified below:

Sieve		Percent Passing
Sieve Size	Size opening (mm)	
2 inch	50.8	100
1/4 inch	6.35	30-65
No. 40	0.425	5-40
No. 200	0.075	0-10

- 1. Magnesium Sulfate Soundness Test: 20 percent maximum loss by weight after four test cycles.
- 2. Plasticity Index: The plasticity index of the material passing the No. 40 mesh sieve shall not exceed 5.0.
- 3. Elongated Particles: Not more than 30 percent, by weight, of the particles retained on a 1/2 inch sieve shall consist of flat or elongated particles. A flat or elongated particle is defined as one which has its greatest dimension more than three times its least dimension.

- B. Subbase Course Type 2: Stockpiled, crushed ledge rock or approved blast furnace slag. Comply with the gradation and material requirements specified below:

Sieve		Percent Passing
Sieve Size	Size opening (mm)	
2 inch	50.8	100
1/4 inch	6.35	25-60
No. 40	0.425	5-40
No. 200	0.075	0-10

1. Magnesium Sulfate Soundness Test: 20 percent maximum loss by weight after four test cycles.
2. Plasticity Index: The plasticity index of the material passing the No. 40 mesh sieve shall not exceed 5.0.
3. Elongated Particles: Not more than 30 percent, by weight, of the particles retained on a 1/2 inch sieve shall consist of flat or elongated particles. A flat or elongated particle is defined as one which has its greatest dimension more than three times its least dimension.

C. Selected Fill: Sound, durable, sand, gravel, stone, or blends of these materials, free from organic and other deleterious materials. Comply with the gradation requirements specified below:

Sieve		Percent Passing
Sieve Size	Size opening (mm)	
4 inch	101.6	100
No. 40	0.425	0-70
No. 200	0.075	0-15

D. Suitable Material (Fill and Backfill for Landscaped Areas): Material consisting of mineral soil (inorganic), blasted or broken rock and similar materials of natural or man-made origin, including mixtures thereof. Maximum particle size shall not exceed 2/3 of the specified layer thickness prior to compaction. NOTE: Material containing cinders, industrial waste, sludge, building rubble, land fill, muck, and peat shall be considered unsuitable for fill and backfill, except topsoil and organic silt may be used as suitable material in landscaped areas provided it is placed in the top layer of the subgrade surface.

E. Cushion Material: Shall consist of clean, hard, durable, uncoated particles, free from lumps of clay and all deleterious substances and shall meet the following gradation requirements:

Sieve Size		Percent Passing
Sieve Size	Size opening (mm)	
1/4 inch	6.35	100
No. 60	0.25	0-35
No. 100	0.15	0-10

F. Rip Rap: Fine, Light, Medium or Heavy Stone Filling that complies with DOT Article 620-2.02 for stone filling.

G. Pea Gravel: Comply with DOT Article 703-02 for screened gravel.

Sieve		Percent Passing
Sieve Size	Size opening (mm)	
1/2 inch	12.7	100
1/4 inch	6.35	90-100
1/8 inch	3.17	0-15

Sieve		Percent Passing
Sieve Size	Size opening (mm)	
No. 200 Sieve	0.075	0-1

- H. Item B-12: Equal Blend of No.1 and No. 2 Crushed Stone that complies with material requirements of DOT Article 703-02, crushed stone only.

Sieve		Percent Passing
Sieve Size	Size opening (mm)	
1-1/2 inch	38.1	100
1 inch	25.4	95-100
½ inch	12.7	45-60
¼ inch	6.35	0-15

- I. No. 1 Coarse Aggregate: Crushed Stone that complies with material requirements of DOT Article 703-02 and meets the following gradation.

Sieve		Percent Passing
Sieve Size	Size opening (mm)	
1 inch	25.4	100
1/2 inch	12.7	90-100
1/4 inch	6.35	0-15

- J. No. 2 Coarse Aggregate: Crushed Stone that complies with material requirements of DOT Article 703-02 and meets the following gradation.

Sieve		Percent Passing
Sieve Size	Size opening (mm)	
1-1/2 inch	38.1	100
1 inch	25.4	90-100
1/2 inch	12.7	0-15

- K. Marker Tape: FL Industries Blackburn/Holub's Type YT6, or Seton Nameplate Corporations Type 6 ELE, imprinted with message suited to item buried below.

2.02 GEOTECHNICAL FABRICS

- A. Filter Fabric (GeoTextile)
1. Drainage and Erosion Control: Amoco 1199 & 2019, Maccaferri MacTex MX140 & MX155, Mirafi 140N & 160N, Fiberweave 403 & 404 or equivalent.
 2. Separation for foundation drains, underdrains, undercuts: GeoTex 801, Contech Construction Products Inc. C-180, Synthetic Industries Geotex 250ST & 315ST, Mirafi Geolon HP570 & HP1500 or equivalent.
 3. Separation/Stabilization beneath pavements: Amoco 4551, Bonded Fibers Products PN080, Maccaferri Gabions MacTex MX275 & 340, Mirafi 160N & 180N or equivalent.

2.03 BRICK AND MORTAR

- A. Manhole Brick: Standard size, ASTM C 32, Grade MS.
- B. Mortar Materials: Dry packaged, proportioned for Type M unit masonry mortar, complying with ASTM C 387.

PART 3 EXECUTION

3.01 CLEARING AND GRUBBING

- A. Clear and grub the site within the Grading Limit Line (GLL) of trees, shrubs, brush, other prominent vegetation, debris, and obstructions except for those items indicated to remain. Completely remove stumps and roots protruding through the ground surface.
- B. Fill depressions caused by the clearing and grubbing operations in accordance with the requirements for filling and backfilling, unless further excavation is indicated.

3.02 UNDERGROUND UTILITIES

- A. Locate existing underground utilities prior to commencing excavation work. Determine exact utility locations by hand excavated test pits. Support and protect utilities to remain in place.
- B. Do not interrupt existing utilities that are in service until temporary or new utilities are installed and operational.
- C. Utilities to remain in service: Shall be protected as shown on the Contract Drawings.
- D. Utilities abandoned beneath and five feet laterally beyond the structure's proposed footprint shall be removed in their entirety. Excavations required for their removal shall be backfilled and compacted as specified herein.
- E. Utilities located outside the limits specified above may be abandoned in place provided their ends are adequately plugged as described below.
 - 1. Permanently close open ends of abandoned underground utilities exposed by excavations, which extend outside the limits of the area to be excavated.
 - 2. Close open ends of metallic conduit and pipe with threaded galvanized metal caps or plastic plugs or other approved method for the type of material and size of pipe. Do not use wood plugs.
 - 3. Close open ends of concrete and masonry utilities with concrete or flowable fill.

3.03 EXCAVATION

- A. Excavate earth as required for the Work.

- B. Install and maintain all erosion and sedimentation controls during all earthwork operations as specified on the Contract Drawings or as directed by local officials. If the erosion and sedimentation controls specified by the local officials are more stringent than those specified on the Contract Drawings contact the Director's Representative.
- C. Maintain sides and slopes of excavations in a safe condition until completion of backfilling. Comply with Code of Federal Regulations Title 29 - Labor, Part 1926 (OSHA).
 - 1. Trenches: Deposit excavated material on one side of trench only. Trim banks of excavated material to prevent cave-ins and prevent material from falling or sliding into trench. Keep a clear footway between excavated material and trench edge. Maintain areas to allow free drainage of surface water.
- D. Stockpile excavated materials classified as suitable material where directed, until required for fill. Place, grade, and shape stockpiles for proper drainage as approved by the Director's Representative.
- E. Excavation for Structures: Conform to elevations, lines, and limits indicated. Excavate to a vertical tolerance of plus or minus 1 inch. Extend excavation a sufficient lateral distance to provide clearance to execute the Work.
- F. Footings and Foundations: The foundation bearing grade shall be established just prior to constructing the concrete foundations when concrete is to bear on undisturbed soil.
- G. Concrete Slabs, Floors and Bases: Excavate to the following depths below bottom of concrete for addition of select granular material:
 - 1. Interior Floors: 6 inches unless otherwise indicated.
 - 2. Exterior Slabs and Steps: 12 inches unless otherwise indicated.
- H. Pipe Trenches and/or Bell and Spigot Pipe Trenches: Open only enough trench length to facilitate laying pipe sections. Unless otherwise indicated on the Drawings, excavate trenches approximately 24 inches wide plus the outside pipe diameter, equally divided on each side of pipe centerline. Cut trenches to cross section, elevation, profile, line, and grade indicated. Accurately grade and shape trench bottom for uniform bearing of pipe.
 - 1. Trench in Rock: Excavate an additional 6 inches below bottom of pipe for bed of cushion material under the piping.
- I. Conduit, Cable, Tubing and Piping (other than Bell and Spigot): Provide sufficient trench width for installation and to accommodate special backfill when specified.
- J. Underground Storage Tanks: Excavate as required to install tank and to accommodate special backfill.
- K. Open Ditches: Cut ditches to cross sections and grades indicated.

- L. Pavement: Excavate to subgrade surface elevation.
- M. Unauthorized Excavations: Unless otherwise directed, backfill unauthorized excavation under footings, foundation bases, and retaining walls with compacted select granular material without altering the required footing elevation. Elsewhere, backfill and compact unauthorized excavation as specified for authorized excavation of the same classification, unless otherwise directed by the Director.
 - 1. Unauthorized excavations under structural Work such as footings, foundation bases, and retaining walls shall be reported immediately to the Director before any concrete or backfilling Work commences.
- N. Notify the Director's Representative upon completion of excavation operations. Do not proceed with the Work until the excavation is inspected and approved. Inspection of the excavation by the Director's Representative will be made on 3 working day's notice.

3.04 DEWATERING

- A. Prevent surface and subsurface water from flowing into excavations and trenches and from flooding the site and surrounding area.
- B. Do not allow water to accumulate in excavations or trenches. Remove water from all excavations immediately to prevent softening of foundation bottoms, undercutting footings, and soil changes detrimental to the stability of subgrades and foundations. Furnish and maintain pumps, sumps, suction and discharge piping systems, and other system components necessary to convey the water away from the Site.
- C. Convey water removed from excavations, and rain water, to collecting or run-off area. Cut and maintain temporary drainage ditches and provide other necessary diversions outside excavation limits for each structure. Do not use trench excavations as temporary drainage ditches.
- D. Provide temporary controls to restrict the velocity of discharged water as necessary to prevent erosion and siltation of receiving areas.

3.05 PLACING FILTER FABRIC

- A. Place and overlap filter fabric in accordance with the manufacturer's installation instructions, unless otherwise shown.
- B. Cover tears and other damaged areas with additional filter fabric layer extending 3 feet beyond the damage.
- C. Do not permit traffic or construction equipment directly on filter fabric.
- D. Backfill over filter fabric within two weeks after placement. Backfill in accordance with the fabric manufacturer's instructions and in a manner to prevent damage to the fabric.

3.06 PLACING FILL AND BACKFILL

- A. Surface Preparation of Fill Areas: Strip topsoil, remaining vegetation, and other deleterious materials prior to placement of fill. Remove all asphalt pavement in its entirety from areas requiring the placement of fill or break up old pavements to a maximum size of four inches. Prior to placement of fill, smooth out and compact areas where wheel rutting has occurred due to stripping or earthwork operations.
- B. Excavations: Backfill as promptly as practicable, but only after approval by the Director's Representative. Do not backfill with excavated material unless it meets the requirements of this Section.
- C. Place backfill and fill materials in layers not more than 8 inches thick in loose depth unless otherwise specified. Before compaction, moisten or aerate each layer as necessary to facilitate compaction to the required density. Do not place backfill or fill material on surfaces that are muddy, frozen, or covered with ice.
 - 1. Place fill and backfill against foundation walls, and in confined areas (such as trenches) not easily accessible by larger compaction equipment, in maximum six inch thick (loose depth) layers.
 - 2. For Open Graded Stone/Clean Stone (Item B-12, No. 1 crushed stone, No. 2 crushed stone, etc.) in excess of six inches: Material must be wrapped in separation fabric.
- D. Prevent wedging action of backfill against structures by placing backfill uniformly around structure to approximately same elevation in each layer. Place backfill against walls of structures containing basements or crawl spaces only after the first floor structural members are in place.
- E. Under Exterior Concrete Slabs and Steps:
 - 1. Up to Subgrade Surface Elevation: Place selected fill when fill or backfill is required.
 - 2. Subbase Material: Place 12 inches of select granular material over subgrade surface.
- F. Under Interior Concrete Slabs:
 - 1. Up to Subgrade Surface Elevation: Place selected fill when fill or backfill is required.
 - 2. Subbase Material: Place six inches of select granular material over subgrade surface.
- G. Under Pavements and Walks:
 - 1. Up to Subgrade Surface Elevation: Place selected fill when fill or backfill is required.
 - 2. Subbase Material: Place as indicated.
- H. Landscaped Areas: Place suitable material when required to complete fill or backfill areas up to subgrade surface elevation. Do not use material containing rocks over four inches in diameter within the top 12 inches of suitable material.

- I. Plastic Pipe in Trenches: Place cushion material a minimum of six inches deep under pipe, 12 inches on both sides, and 12 inches above top of pipe. Complete balance of backfill as specified.
- J. Copper Tubing and Steel Gas Pipe in Trenches: Place cushion material a minimum of six inches deep under pipe, six inches on both sides, and 4 inches over top of pipe. Complete balance of backfill as specified.
- K. Rigid Non-Metallic Conduit: Except where concrete encasement is required, place cushion material a minimum of four inches deep under conduit, four inches on both sides, and 12 inches over top of conduit. Complete balance of backfill as specified.

3.07 COMPACTION

- A. All materials with exception of open graded stone (No. 2 Coarse aggregate, No. 1 Coarse aggregate, Item B-12, etc.):
 - 1. Compact each layer of fill and backfill for the following area classifications to the percentage of maximum density specified below and at a moisture content suitable to obtain the required densities, but at not less than three percent drier or more than two percent wetter than the optimum content as determined by ASTM D 698 (Standard Proctor) or 1557 (Modified Proctor).
 - a. Structures (entire area within ten feet outside perimeter): 95 percent.
 - b. Concrete Slabs and Steps: 95 percent.
 - c. Landscaped Areas: 90 percent.
 - d. Pavements and Walks: 95 percent.
 - e. Pipes and Tunnels: 95 percent.
 - f. Pipe Bedding: 95 percent.
 - 2. If a compacted layer fails to meet the specified percentage of maximum density, the layer will be re-compacted and retested. If compaction cannot be achieved the material/layer will be removed and replaced. No additional material may be placed over a compacted layer until the specified density is achieved
- B. Open graded Stone: Place material in maximum twelve inch lifts. Each lift shall be raked smooth and compacted through several passes of a walk behind vibratory roller. Compaction Testing is **not** required.

3.08 GRADING

- A. Rough Grading: Trim and grade area within the Grading Limit Line and excavations outside the limit line, required by this Contract, to a level of four inches below the finish grades indicated unless otherwise specified herein or where greater depths are indicated. Provide smooth uniform transition to adjacent areas.
- B. Finish Grading: Finish surfaces free from irregular surface changes, and as follows:

1. Grassed Areas: Finish areas to receive topsoil to within 1 inch above or below the required subgrade surface elevations.
2. Walks and Pavements: Place and compact subbase material as specified. Shape surface of areas to required line, grade and cross section, with the finish surface not more than 1/2 inch above or below the required subbase elevation.
3. Building Slabs: Grade subbase material smooth and even, free of voids, compacted as specified to within 1/4 inch above or below required subbase elevation.

3.09 RESTORATION

- A. Restore pavements, walks, curbs, lawns, and other exterior surfaces damaged during performance of the Work to match the appearance and performance of existing corresponding surfaces as closely as practicable.
- B. Topsoil and seed or sod damaged lawn areas outside the GLL and new lawn areas inside the GLL. Water as required until physical completion of the Work.

3.10 DISPOSAL OF EXCESS AND UNSUITABLE MATERIALS

- A. Remove from property and dispose of excess and unsuitable materials, including materials resulting from clearing and grubbing and removal of existing improvements.

3.11 FIELD QUALITY CONTROL

- A. Compaction Testing: Notify the Director's Representative at least 3 working days in advance of all phases of filling and backfilling operations. Compaction testing will be performed by the Director's Representative to ascertain the compacted density of the fill and backfill materials. Compaction testing will be performed on certain layers of the fill and backfill as determined by the Director's Representative. If a compacted layer fails to meet the specified percentage of maximum density, the layer shall be re-compacted and will be retested. No additional material may be placed over a compacted layer until the specified density is achieved.

3.12 PROTECTION

- A. Protect graded areas from traffic and erosion and keep them free of trash and debris.

END OF SECTION

SECTION 310513
SOILS FOR EARTHWORK

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Subsoil materials.
 - 2. Topsoil materials.
 - 3. Planting Soils for Bioretention Areas

- B. Related Sections:
 - 1. Section 310516 - Aggregates for Earthwork.
 - 2. Section 312213 - Rough Grading.
 - 3. Section 312323 - Fill.
 - 6. Section 329219 - Seeding.
 - 7. Section 329220 - Planting.

1.02 REFERENCES

- A. American Association of State Highway and Transportation Officials:
 - 1. AASHTO T180 - Standard Specification for Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop.

- B. ASTM International:
 - 1. ASTM D698 - Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³)).
 - 2. ASTM D1557 - Standard Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort (6,000 ft-lbf/ft³ (2,700 kN-m/m³)).
 - 3. ASTM D2487 - Standard Classification of Soils for Engineering Purposes (Unified Soil Classification System).

1.03 SUBMITTALS

- A. Section 013300 - Submittal Procedures: Requirements for submittals.

- B. Materials Source: Submit name of imported materials source. Local sources required.

- C. Manufacturer's Certificate: Certify Products meet or exceed specified requirements.

1.04 QUALITY ASSURANCE

- A. Furnish each topsoil material from single source throughout the Work.

- B. Perform Work in accordance with NYSDOT standards.

PART 2 - PRODUCTS

2.01 SUBSOIL MATERIALS

- A. Subsoil
 - 1. Excavated and re-used material.
 - 2. Graded.
 - 3. Free of lumps larger than 3 inches, rocks larger than 2 inches, and debris.

2.02 TOPSOIL MATERIALS

- A. On-site Topsoil:
 - 1. Excavated and reused material.
 - 2. Graded.
 - 3. Free of roots, rocks larger than 1/2-inch, subsoil, debris, large weeds, and foreign matter.
 - a. Screening: Single screened.
 - 4. Conforming to ASTM D2487.
- B. Imported Topsoil
 - 1. Imported borrow.
 - 2. Friable loam.
 - 3. Reasonably free of roots, rocks larger than 1/2-inch, subsoil, debris, large weeds, and foreign matter.
 - a. Screening: Double screened.
 - 4. Acidity range (pH) of 5.5 to 7.5
 - 5. Containing minimum of 10 percent and maximum of 25 percent inorganic matter.
 - 6. Conforming to ASTM D2487.
- C. Should the pH fall out of the acceptable range, it may be modified (higher) with lime or (lower) with iron sulfate plus sulfur.

2.03 SOURCE QUALITY CONTROL

- A. Section 014000 - Quality Requirements: Testing and Inspection Services. Provide pH and organic analysis of imported topsoil from supplier dated same year as project.
- B. Testing and Analysis of Subsoil Material: Perform in accordance with ASTM D698.
- C. Testing and Analysis of Topsoil Material: Perform in accordance with ASTM D698.
- D. When tests indicate materials do not meet specified requirements, change material and retest.
- E. Furnish materials of each type from same source throughout the Work.

PART 3 - EXECUTION

3.01 EXCAVATION

- A. Excavate subsoil and topsoil from areas designated. Strip topsoil to full depth of topsoil in designated areas.
- B. Stockpile excavated material meeting requirements for subsoil materials and topsoil materials.

C. Remove excess excavated materials not intended for reuse, from site.

3.02 STOCKPILING

A. Stockpile materials on site as designated by Landscape Architect.

B. Stockpile in sufficient quantities to meet Project schedule and requirements.

C. Separate differing materials with dividers or stockpile apart to prevent mixing.

D. Stockpile topsoil 8 feet high maximum.

E. Prevent intermixing of soil types or contamination.

F. Direct surface water away from stockpile site to prevent erosion or deterioration of materials. Install temporary erosion controls and maintain until area is re-established.

3.03 STOCKPILE CLEANUP

A. Remove stockpile, leave area in clean and neat condition. Grade site surface to prevent free standing surface water.

END OF SECTION

SECTION 310516

AGGREGATES FOR EARTHWORK

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Coarse aggregate materials.
 - 2. Fine aggregate materials.
- B. Related Sections:
 - 1. NA

1.02 REFERENCES

- A. American Association of State Highway and Transportation Officials:
 - 1. AASHTO M147 - Standard Specification for Materials for Aggregate and Soil- Aggregate Subbase, Base and Surface Courses.
 - 2. AASHTO T180 - Standard Specification for Moisture-Density Relations of Soils Using a 10-lb Rammer and an 18-in. Drop.
- B. ASTM International:
 - 1. ASTM C136 - Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates.
 - 2. ASTM D698 - Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort 12,400 ft-lbf/ft³.
 - 3. ASTM D1557 - Standard Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort 6,000 ft-lbf/ft³.
 - 4. ASTM D2487 - Standard Classification of Soils for Engineering Purposes Unified Soil Classification System.
 - 5. ASTM D4318 - Standard Test Method for Liquid Limit, Plastic Limit, and Plasticity Index of Soils.

1.03 SUBMITTALS

- A. Section 013300 - Submittal Procedures: Requirements for submittals.
- B. Materials Source: Submit name of imported materials suppliers.
- C. Manufacturer's Certificate: Certify Products meet or exceed specified requirements.

1.04 QUALITY ASSURANCE

- A. Furnish each aggregate material from single source throughout the Work.
- B. Perform Work in accordance with NYSDOT standards.

2.01 COARSE AGGREGATE MATERIALS

- A. Coarse Aggregate: Conforming to NYSDOT standard.

2.02 FINE AGGREGATE MATERIALS

- A. Fine Aggregate: Conforming to NYSDOT standards.

2.03 SOURCE QUALITY CONTROL

- A. Section 014000 - Quality Requirements: Testing and inspection services.
- B. Coarse Aggregate Material - Testing and Analysis: Perform in accordance with ASTM D698.
- C. Fine Aggregate Material - Testing and Analysis: Perform in accordance with ASTM D698.
- D. When tests indicate materials do not meet specified requirements, change material and retest.

END OF SECTION

SECTION 311000

SITE CLEARING, GRUBBING, & STRIPPING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary General Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. Section Includes:
- B. Removing surface debris.
- C. Removing designated paving, curbs.
- D. Demolition and removal of above grade improvements.
- E. Disconnecting, capping or sealing, and removal/abandoned utilities.
- F. Removing designated trees, shrubs, and other plant life.
- G. Removing invasive species.
- H. Excavating of subsoil and topsoil.
- I. Dust control.
- J. Protection of existing trees, shrubs and vegetation to remain.
- K. Temporary fencing.
- L. Sediment and erosion controls.

1.03 RELATED SECTIONS

- A. Section 312213 - Rough Grading
- B. Section 013000 - Administrative Requirements: Verification of existing conditions before starting work.
- C. Section 015000 Temporary Facilities and Controls
- D. Section 312316 Excavation
- E. Section 312323 Granular Fill
- F. Section 329410 Planting Soils
- G. Section 334400 Trenching

1.04 DEFINITIONS

- A. Remove: Remove and legally dispose of items except those indicated to be reinstalled, salvaged, or to remain the Owner's property.
- B. Remove and Salvage: Items indicated to be removed and salvaged remain the Owner's property. Remove, clean, and pack or crate items to protect against damage. Identify contents of containers and deliver to Owner's designated storage area.
- C. Remove and Reinstall: Remove items indicated; clean, service, and otherwise prepare them for reuse; store and protect against damage. Reinstall items in locations indicated.
- D. Subsoil: All soil beneath the topsoil layer of the soil profile, and typified by the lack

of organic matter and soil organisms.

- E. Surface Soil: Soil that is present at the top layer of the existing soil profile at the Project site. In undisturbed areas, the surface soil is typically topsoil; but in disturbed areas such as urban environments, the surface soil can be subsoil.
- F. Topsoil: Top layer of the soil profile consisting of existing native surface topsoil or existing in- place surface soil and is the zone where plant roots grow.
- G. Tree-Protection Zone: Area surrounding individual trees or groups of trees to be protected during construction.
- H. Vegetation: Trees, shrubs, groundcovers, grass, and other plants.

1.05 MATERIALS OWNERSHIP

- A. Except for items or materials indicated to be reused, stockpiled, salvaged, or otherwise indicated to remain the Owner's property, demolished materials shall become the Contractor's property and shall be removed from the site with further disposition at the Contractor's option.
- B. Historical items, relics, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, antiques, and other items of interest or value to the Owner, which may be encountered during demolition, remain the Owner's property. Carefully remove and salvage each item or object in a manner to prevent damage and deliver promptly to the Owner.
 - 1. Cooperate with Owner's archaeologist or historical adviser.

1.06 SITE CLEARING MEETINGS

- A. Pre-clearing Conference: Conduct conference onsite with Landscape Architect and Village Representative.

1.07 INFORMATIONAL SUBMITTALS

- A. Existing Conditions: Documentation of existing trees and plantings, adjoining construction, and site improvements that establishes preconstruction conditions that might be misconstrued as damage caused by site clearing.
- B. Use sufficiently detailed photographs or videotape.
- C. Include plans and notations to indicate specific wounds and damage conditions of each tree or other plants designated to remain.
- D. Proposed Protection Measures: Submit report, including drawings, that indicates the measures proposed for protecting individuals and property. Indicate proposed locations and construction of barriers.
- E. "Schedule of Selective Demolition Activities" Paragraph below may be used to track Contractor's progress; it may also be used to determine that selective demolition will not interfere with Owner's operations.
- F. Schedule of Selective Clearing Activities: Indicate the following:
- G. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity.

1.08 PROJECT CONDITIONS

- A. Traffic: Conduct site clearing operations to ensure minimum interference with roads, streets, walks, and other adjacent occupied or used facilities.
- B. Do not close or obstruct streets, walks or other occupied or used facilities without written permission from Owner and authorities having jurisdiction.
- C. Provide alternate routes around closed or obstructed traffic ways if required by Owner or authorities having jurisdictions.
- D. Utility Locator Service: Notify utility locator service for area where Project is located before site clearing and demolition.
- E. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during demolition and clearing operations.
- F. Notify Owner / Landscape Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- G. Protection of Existing Improvements: Provide protections necessary to prevent damage to existing improvements indicated to remain in place.
- H. Protect improvements on adjoining properties and on Owner's property.
- I. Restore damaged improvements to their original condition, as acceptable to property owners.
- J. Protection of Existing Trees and Vegetation: Protect existing trees and other vegetation indicated to remain in place, against unnecessary cutting, breaking or skinning of roots, skinning or bruising of bark, smothering of trees by stockpiling construction materials or excavated materials within drip line, excess foot or vehicular traffic, or parking of vehicles within drip line. Provide temporary guards to protect trees and vegetation to remain at drip line.
- K. Salvable Improvements: Carefully remove items indicated to be salvaged, and store on Owner's premises where indicated or directed.
- L. Storage or sale of removed items or materials on-site will not be permitted.
- M. Explosives: Use of explosives will not be permitted.
- N. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
 - a. If suspected hazardous materials are encountered, do not disturb; immediately notify owner.
- O. Invasive Species Materials: All invasive species must be properly handled and legally disposed of. Follow procedures outlined in following sections or remove soils where plants are visible to depth of 24" and dispose of off site.

1.09 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with governing EPA notification regulations before starting demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.01 GENERAL

- A. The Landscape Architect will review the limits of the Work and will designate all trees, plants, shrubs and other items to remain. The Contractor shall protect and preserve all items designated to remain.
- B. Miscellaneous trimming of trees or shrubs designated to remain shall be conducted when directed by the Landscape Architect. Trimming shall be in accordance with good tree surgery practice.
- C. All vegetation and debris to be removed shall be disposed of by the Contractor.
 - A. The Contractor is responsible for:
 - a. Securing waste disposal or stockpile sites,
 - b. Obtaining written permission of the owner of the disposal site and
 - c. Securing any required permits if none are indicated on the Drawings.
 - d. The cost of securing such sites shall be borne by the Contractor. If requested by the Landscape Architect, the Contractor shall furnish the permit numbers of all required permits for disposal sites.
 - e. Merchantable timber within the clearing limits will become the property of the Contractor, unless otherwise specified.

3.02 EXAMINATION

- A. Verify that utilities have been disconnected and capped before starting selective demolition operations.
- B. Verify existing conditions and correlate with requirements indicated to determine extent of clearing required.
- C. When unanticipated elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Owner.

3.03 PREPARATION

- A. Call Local Utility Line (National Grid and NY One Call) Information service not less than three working days before performing Work. The Town of Dickinson is responsible for the water service lines: call 607-743-1746.
- B. Request underground utilities to be located and marked within and surrounding construction areas. See drawings for “as-built” locations provided by others.

3.04 PROTECTION

- A. Protect and maintain benchmarks, survey control points, and existing structures from damage or displacement.
- B. Locate, identify, and protect all utilities to remain, from damage. Consult with Owner for assistance in locating underground utilities behind and between buildings.
- C. Locate and clearly identify trees, shrubs, and other vegetation to remain.
- D. Install tree and plant protection and temporary erosion and sedimentation control.
- E. Protect existing site improvements to remain from damage during construction. Restore damaged improvements to their original condition, as acceptable to Owner.
- F. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
- G. Temporary Facilities: Provide temporary barricades and other protection required to

prevent injury to people and damage to adjacent buildings and facilities to remain.

- H. Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of building.

3.05 EXISTING UTILITIES

- A. Interrupting Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
- B. Notify Owner not less than 2 days in advance of proposed utility interruptions.
- C. Do not proceed with utility interruptions without Owner's written permission.
- D. If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to buildings.

3.06 CLEARING

- A. General: Remove trees, shrubs, grass and other vegetation, improvements, or obstructions as required to permit installation of new construction. Remove similar items elsewhere on site or premises as specifically indicated. "Removal" includes digging out and off-site disposing of stumps, roots, and branches.
- B. Cut minor roots and branches of trees indicated to remain in a clean and careful manner, where such roots and branches obstruct installation of new construction.
- C. Topsoil: Topsoil is defined as friable clay loam surface soil found in a depth of not less than 4 inches. Satisfactory topsoil is reasonably free of subsoil, clay lumps, stones, and other objects over 2 inches in diameter, and without weeds, roots, and other objectionable material.
- D. Do not remove wet topsoil.
- E. Strip topsoil to whatever depths encountered in a manner to prevent intermingling with underlying subsoil or other objectionable material.
- F. Remove heavy growths of grass from areas before stripping.
- G. Where existing trees are indicated to remain, leave existing topsoil in place within drip lines to prevent damage to root system.
- H. Stockpile topsoil in storage piles. Construct storage piles on site to a depth not exceeding 8 feet and protect from erosion. Cover storage piles, if required, to prevent wind erosion.
- I. Fill depressions caused by clearing and grubbing operations with satisfactory soil material unless further excavation or earthwork is indicated.
- J. Place fill material in horizontal layers not exceeding 6 inches loose depth, and thoroughly compact to a density equal to adjacent original ground.
- K. Removal of Improvements: Remove existing above-grade and below-grade improvements as indicated and as necessary to facilitate new construction.
- L. Clear areas required for access to site and execution of Work.
- M. Clear undergrowth and deadwood, without disturbing subsoils.

3.07 REMOVE AND RELOCATE BUSH OR TREE

- A. Bushes or trees shown on the Drawings for removal and relocation shall be removed and relocated as directed by the Landscape Architect.
- B. Bushes and trees designated for removal and relocation shall be carefully removed

with enough of the root wad kept intact to ensure the survival of the bush or tree in its new locations. Bushes and trees designated for removal and relocation that are damaged, or that do not survive as a result of the transplanting, shall be replaced by the Contractor at its expense. The relocated bush or tree shall be placed to original depth at a location shown in drawings or within 15 feet of the original location, as directed by the Landscape Architect.

3.08 HAND CLEARING

- A. In areas where Hand Clearing is indicated on the Drawings or designated by the Landscape Architect, no equipment on wheels or tacks shall be used. Care shall be taken to insure that the grass, moss cover, or the natural ground is not disturbed. Stumps shall be cut flush with the ground, except that in areas within four feet or more of embankment cover, stumps may be cut off six inches above the natural ground.

3.09 SELECTIVE TREE REMOVAL

- A. Trees designated by the Landscape Architect, outside of the normal clearing and grubbing and/or hand clearing limits, shall be removed and disposed of in accordance with this Section. Trees to be removed may be designated by the Landscape Architect at any time during the performance of the contract and may be subject to the conditions specified under Hand Clearing.
- B. Removal of selected trees within the project site will be required by the Contractor to prepare the area for installation of vegetation as specified in the project plans.
- C. The Contractor and any subcontractors will provide all equipment and materials necessary to remove and dispose of the trees. The tree will be flagged and identified to the Contractor prior to removal by the Landscape Architect or his Designee.
- D. Stumps to be ground 6" below surface. The above-ground trunk will be cut in sections and removed.

3.10 TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

- A. Install temporary structures as indicated on the drawings or as ordered by the Landscape Architect to control soil erosion and water pollution. Acceptable measures shall be consistent with those of the local authorities having jurisdiction.
- B. Temporary measures shall be coordinated with any permanent erosion control systems specified elsewhere in the contract to the extent practical to assure economical, effective and continuous erosion control.

3.11 MISCELLANEOUS REMOVALS

- A. Remove debris, rock, and extracted plant life from site.
- B. Remove paving, walks and curbs as indicated on Drawings. Neatly saw cut edges at right angle to surface and at right angles to adjoining structures. Saw cut concrete pavement as indicated at locations shown on drawings nearest to existing joint.
- C. Remove abandoned utilities. Indicated removal termination point for underground utilities on Record Documents.
- D. Continuously clean-up and remove waste materials from site. Do not allow materials to accumulate on site.
- E. Do not burn or bury materials on site. Leave site in clean condition.

3.12 TOPSOIL EXCAVATION

- A. Excavate topsoil from areas to be further excavated, re-landscaped, or re-graded without mixing with foreign materials for use in finish grading.
- B. Do not excavate wet topsoil.
- C. Stockpile in area designated on site to depth not exceeding 8 feet and protect from erosion.

3.13 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off Owner's property unless notified to stockpile and save on site.

END OF SECTION

SECTION 312213
ROUGH GRADING

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Excavating topsoil.
 - 2. Excavating subsoil.
 - 3. Cutting, grading, filling, rough contouring, and compacting.
- B. Related Sections:
 - 1. Section 31 05 13 - Soils for Earthwork.
 - 2. Section 31 05 16 - Aggregates for Earthwork.
 - 3. Section 31 10 00 - Site Clearing, Grubbing & Stripping.

1.02 REFERENCES

- A. American Association of State Highway and Transportation Officials:
 - 1. AASHTO T180 - Standard Specification for Moisture-Density Relations of Soils Using a 10-lb Rammer and an 18-in. Drop.
- B. ASTM International:
 - 1. ASTM C136 - Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates.
 - 2. ASTM D698 - Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort 12,400 ft-lbf/ft³.
 - 3. ASTM D1556 - Standard Test Method for Density of Soil in Place by the Sand- Cone Method.
 - 4. ASTM D1557 - Standard Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort 6,000 ft-lbf/ft³.
 - 5. ASTM D2167 - Standard Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon Method.
 - 6. ASTM D2419 - Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate.
 - 7. ASTM D2434 - Standard Test Method for Permeability of Granular Soils (Constant Head).
 - 8. ASTM D2922 - Standard Test Method for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth).
 - 9. ASTM D3017 - Standard Test Method for Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth).

1.03 SUBMITTALS

- A. Section 01 33 00 - Submittal Procedures: Requirements for submittals.
- B. Materials Source: Submit name of imported materials suppliers.
- C. Manufacturer's Certificate: Certify Products meet or exceed specified requirements.

1.04 CLOSEOUT SUBMITTALS

- A. Section 01 70 00 - Execution Requirements: Requirements for submittals.

- B. Project Record Documents: Accurately record actual locations of utilities remaining by horizontal dimensions, elevations or inverts, and slope gradients.

1.05 QUALITY ASSURANCE

- A. Perform Work in accordance with ASTM C136, ASTM D2419, and ASTM D2434.
- B. Perform Work in accordance with State Municipality of Highways Public Work's standard.
- C. Maintain one copy copies of each document on site.

PART 2 - PRODUCTS

2.01 MATERIALS

2.02 CRUSHED STONE

- A. Crushed stone shall be a mixture of 50% No. 1 & 2 crushed stone meeting all requirements in Section 703-02 of the NYSDOT Standard Specifications or shall conform to AASHTO No. 57 coarse stone aggregate meeting all requirements in Section 703.3 of NYSDOT Form 408 Specifications.

2.03 GRANULAR FILL

- A. Subbase Course Granular Fill: Shall meet all requirements specified for Type 4 Subbase in Section 304- 2.02 of the New York State Dept. of Transportation Standard Specifications, as specified in Section 304-1.02, and Section 733.04, or shall meet all requirements specified for No. 2RC aggregate in Section 703.3 of Commonwealth of Pennsylvania Department of Transportation Form 408 Specifications.
- B. Select Granular Fill: Material shall consist of rock, stone, slag, cobbles or gravel, substantially free of shale or other soft, poor durability particles and meeting NYSDOT Section 733.11. See Table below for gradation.

Sieve Size Designation	Percentage Passing by Weight
4 in.	100
No. 40	0-70
No. 200	0-15

2.04 GRAVEL FILL

- A. Gravel fill shall meet all requirements for Type 3 Subbase in Section 304-1.02 of the New York State Dept. of Transportation Standard Specifications or shall meet all requirements specified for Item 2A in Section 703.3 of the Commonwealth of Pennsylvania Department of Transportation Form 408 Specifications.

2.05 CUSHION SAND

- A. Cushion sand shall consist of clean, hard, durable, uncoated particles, free from lumps of clay and all deleterious substances. It shall meet the following gradation requirements and shall be approved by the Landscape Architect/Engineer before use.

1. Gradation	
Sieve Size	% Passing by Weight
1/4"	100
No. 50	0-35
No. 100	0-10

2.06 CRUSHER RUN

- A. Crusher Run shall meet all requirements for Type 2 subbase in section 304-1.02 of the NYSDOT Standard Specifications or shall meet all requirements for crushed No. 2A coarse aggregate in section 703.3 of the PennDOT Form 408 Specifications.

2.07 SELECT NATIVE FILL

- A. General: On-site material shall be considered select fill if it is free from organic materials and debris, meets the following gradation and soundness requirements, and is approved by the Landscape Architect/Engineer.

B. Gradation

1. Sieve Size	% Passing by Weight
4"	100
No. 40	0-70
No. 200	0-15

2. Soundness
 Less than 30% magnesium sulfate soundness loss.

2.08 UNCLASSIFIED FILL

- A. On-site material used as unclassified fill shall be free of stones larger than 8 inches in the largest dimension, shall be free of organic materials and debris, and shall be approved by the Landscape Architect/Engineer.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Section 01 30 00 - Administrative Requirements: Verification of existing conditions before starting work.
- B. Verify site conditions under provisions of Section.
- C. Verify survey bench mark and intended elevations for the Work are as indicated on Drawings.

3.02 PREPARATION

- A. Call Local Utility Line Information (811) service at not less than three working days before performing Work.

1. Request underground utilities to be located and marked within and surrounding construction areas.
- B. Identify required lines, levels, contours, and datum.
- C. Notify utility company to remove and relocate utilities.
- D. Protect utilities indicated to remain from damage.
- E. Protect plant life, lawns, rock outcropping and other features remaining as portion of final landscaping.
- F. Protect bench marks, survey control point, existing structures, fences, sidewalks, paving, and curbs from excavating equipment and vehicular traffic.

3.03 TOPSOIL EXCAVATION

- A. Excavate topsoil from areas to be further excavated, relandscaped, or regraded, marked areas, entire site, without mixing with foreign materials for use in finish grading.
- B. Do not excavate wet topsoil.
- C. Stockpile in area designated on site to depth not exceeding 5 feet and protect from erosion. Stockpile material on impervious material 36 mil Hypalon material and cover over with same material, until disposal.
- D. Do not remove topsoil from site unless authorized by Landscape Architect.

3.04 SUBSOIL EXCAVATION

- A. Excavate subsoil from areas to be further excavated, re-landscaped, or re-graded. Marked areas. entire site.
- B. Do not excavate wet subsoil or excavate and process wet material to obtain optimum moisture content.
- C. When excavating through roots, perform Work by hand and cut roots with sharp axe.
- D. Remove excess subsoil not intended for reuse, from site.
- E. Benching Slopes: Horizontally bench existing slopes greater than 1: 4 to key placed fill material to slope to provide firm bearing.
- F. Stability: Replace damaged or displaced subsoil as specified for fill.

3.05 FILLING

- A. Fill areas to contours and elevations with unfrozen materials.
- B. Place material in continuous layers as follows:
 1. Subsoil Fill: Maximum 12 inches compacted depth.
 2. Structural Fill: Maximum 6 inches compacted depth.
 3. Granular Fill: Maximum 8 inches compacted depth.

- C. Maintain optimum moisture content of fill materials to attain required compaction density.
- D. Slope grade away from building minimum 1.5 percent slope for minimum distance of 10 ft, unless noted otherwise.
- E. Make grade changes gradual. Blend slope into level areas.
- F. Repair or replace items indicated to remain damaged by excavation or filling.

3.06 TOLERANCES

- A. Section 01 40 00 - Quality Requirements: Tolerances.
- B. Top Surface of Subgrade: Plus or minus 1/10 foot from required elevation.

3.07 FIELD QUALITY CONTROL

- A. Section 01 40 00 - Quality Requirements 01 70 00 - Execution and Closeout Requirements: Field inspecting, testing, adjusting, and balancing.

END OF SECTION

SECTION 312313

EXCAVATION

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Soil densification.
2. Excavating for paving.
3. Excavating for site structures.
4. Excavating for landscaping.

B. Related Sections:

1. Section 310516 - Aggregates for Earthwork.
2. Section 312213 - Rough Grading.
4. Section 312323 - Fill.

1.02 REFERENCES

A. ASTM International:

1. ASTM D2922 - Standard Test Method for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth).

B. Local utility standards when working within 24 inches of utility lines.

1.03 QUALITY ASSURANCE

A. Perform Work in accordance with NYSDOT standards.

PART 2 - PRODUCTS

2.01 CRUSHED STONE

A. Crushed stone shall be a mixture of 50% No. 1 & 2 crushed stone meeting all requirements in Section 703-02 of the NYSDOT Standard Specifications or shall conform to AASHTO No. 57 coarse stone aggregate meeting all requirements in Section 304 of NYSDOT Specifications.

2.02 GRANULAR FILL

A. Granular fill shall meet all requirements specified for Type 4 Subbase in Section 304- 2.02 of the New York State Dept. of Transportation Standard Specifications.

2.03 GRAVEL FILL

A. Gravel fill shall meet all requirements for Type 3 Subbase in Section 304-2.02 of the New York State Dept. of Transportation Standard Specifications.

2.04 CUSHION SAND

A. Cushion sand shall consist of clean, hard, durable, uncoated particles, free from lumps of clay and all deleterious substances. It shall meet the following gradation requirements and shall be approved by the Engineer before use.

1. Gradation	
Sieve Size	% Passing by Weight
1/4"	100
No. 50	0-35
No. 100	0-10

2.05 CRUSHER RUN

A. Crusher run shall meet all requirements for Type 2 subbase in section 304-2.02 of the NYSDOT Standard Specifications.

2.06 SELECT NATIVE FILL

A. General: On-site material shall be considered select fill if it is free from organic materials and debris, meets the following gradation and soundness requirements, and is approved by the Engineer.

B. Gradation

1. Sieve Size	% Passing by Weight
4"	100
No. 40	0-70
No. 200	0-15
2. Soundness	
Less than 30% magnesium sulfate soundness loss.	

2.07 UNCLASSIFIED FILL

A. On-site material used as unclassified fill shall be free of stones larger than 8 inches in the largest dimension, shall be free of organic materials and debris, and shall be approved by the Engineer.

PART 3 - EXECUTION

3.01 PREPARATION

A. Call Local Utility Line Information service (UFPO) at 811 not less than three working days before performing Work.

1. Request underground utilities to be located and marked within and surrounding construction areas.

B. Identify required lines, levels, contours, and datum.

C. Protect utilities indicated to remain from damage.

D. Protect plant life, lawns, rock outcroppings and other features remaining as portion of final landscaping.

E. Protect bench marks, survey control points, existing structures, fences, sidewalks, paving, and curbs from excavating equipment and vehicular traffic.

3.02 EXCAVATION

- A. Underpin adjacent structures which may be damaged by excavation work.
- B. Excavate subsoil to accommodate paving, site structures, and construction operations.
- C. Slope banks with machine to angle of repose or less until shored.
- D. Do not interfere with 45 degree bearing splay of wall foundations.
- E. Grade top perimeter of excavation to prevent surface water from draining into excavation.
- F. Trim excavation. Remove loose matter.
- G. Remove lumped subsoil, boulders, and rock up to 1/3 cu yd
- H. Notify Landscape Architect/Engineer of unexpected subsurface conditions. measured by volume.
Remove larger material as specified in Section 312323.
- I. Correct areas over excavated as directed by Landscape Architect/Engineer.
- J. Remove excess and unsuitable material from site.
- K. Stockpile excavated material in area designated on site in accordance with Section 310513 or 31 05 16.
- L. Repair or replace items indicated to remain damaged by excavation.

3.03 FIELD QUALITY CONTROL

- A. Section 014000 - Quality Requirements: Field inspecting, testing, adjusting, and balancing.
- B. Request visual inspection of bearing surfaces by inspection agency before installing subsequent work.

3.04 PROTECTION

- A. Prevent displacement or loose soil from falling into excavation; maintain soil stability.
- B. Protect bottom of excavations and soil adjacent to and beneath foundation from freezing.
- C. Protect structures, utilities and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earth operations.

END OF SECTION

SECTION 312323
GRANULAR FILL

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Backfilling site structures to subgrade elevations.
2. Fill under paving.
3. Fill for over-excavation.

B. Related Sections:

1. Section 033000 - Cast-In-Place Concrete.
2. Section 310513 - Soils for Earthwork.
3. Section 310516 - Aggregates for Earthwork.
4. Section 312213 - Rough Grading.
5. Section 312316 - Excavation.

1.02 REFERENCES

A. American Association of State Highway and Transportation Officials:

1. AASHTO T180 - Standard Specification for Moisture-Density Relations of Soils
Using a 10-lb Rammer and an 18-in. Drop.

B. ASTM International:

1. ASTM D698 - Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³).
2. ASTM D1556 - Standard Test Method for Density of Soil in Place by the Sand- Cone Method.
3. ASTM D1557 - Standard Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort (6,000 ft-lbf/ft³).
4. ASTM D2167 - Standard Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon Method.
5. ASTM D2922 - Standard Test Method for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth).

1 inch	100
1/2 inch	30-100
1/4 inch	0-30
No. 10	0-10
No. 20	0-5

H. Subbase Material: Naturally or artificially graded crushed stone conforming to NYSDOT Item 304-1.02, Type 2 as follows:

U.S. Sieve No.	Percent Passing by Weight
2 inch	100
1/4 inch	25-60
No. 40	5-40
No. 200	0-10

Sieve Size Designation	Percentage Passing by Weight			
	Type 1	Type 2	Type 3	Type 4
4 in.	-	-	100	-
3 in.	100	-	-	-
2 in.	90-100	100	-	100
1/4 in.	30-65	25-60	30-75	30-65
No. 40	5-40	5-40	5-40	5-40
No. 200	0-10	0-10	0-10	0-10

I. Native Backfill Material: Naturally or artificially graded mixture of sand, natural or crushed stone or gravel conforming to NYSDOT Item 304-1.02, Type 4 as follows:

U.S. Sieve No.	Percent Passing by Weight
2 inch	100
1/4 inch	30-65
No. 40	5-40
No. 200	0-10

J. Concrete: concrete as specified in Section 033000

2.02 ACCESSORIES

A. Geotextile Fabric: Non-biodegradable, woven.

1. TC Mirafi; Model 600x or 140N.

2. US Fabrics; Model US230.
3. Substitutions: Meeting the requirements of NYSDOT standards.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Section 013000 - Administrative Requirements: Coordination and project conditions.

3.02 PREPARATION

- A. Compact subgrade to density requirements for subsequent backfill materials.
- B. Cut out soft areas of subgrade not capable of compaction in place. Backfill with structural fill and compact to density equal to or greater than requirements for subsequent fill material.
- C. Proof roll to identify soft spots; fill and compact to density equal to or greater than requirements for subsequent fill material.

3.03 BACKFILLING

- A. Backfill areas to contours and elevations with unfrozen materials.
- B. Systematically backfill to allow maximum time for natural settlement. Do not backfill over porous, wet, frozen or spongy subgrade surfaces.
- C. Place geotextile fabric over approved fill prior to placing next lift of fill.
- D. Place fill material in continuous layers and compact as described below.
- E. Place material in continuous layers as follows:
1. Subsoil Fill: Maximum 8 inches compacted depth.
 2. Structural Fill: Maximum 6 inches compacted depth.
 3. Granular Fill: Maximum 6 inches compacted depth.
- F. Employ placement method that does not disturb or damage other work.
- G. Maintain optimum moisture content of backfill materials to attain required compaction density.
- H. Make gradual grade changes. Blend slope into level areas.
- I. Remove surplus backfill materials from site.
- J. Leave fill material stockpile areas free of excess fill materials.

3.04 TOLERANCES

- A. Section 014000 - Quality Requirements: Tolerances.
- B. Top Surface of Backfilling Under Paved Areas: Plus or minus 1 inch from required elevations.
- C. Top Surface of General Backfilling: Plus or minus 1 inch from required elevations.

3.05 FIELD QUALITY CONTROL

- A. Section 014000 - Quality Requirements: Field inspecting, testing, adjusting, and balancing.
- B. Perform laboratory material tests in accordance with ASTM D1557, ASTM D698, or AASHTO T180.
- C. Perform in place compaction tests in accordance with the following:
 - 1. Density Tests: ASTM D1556, ASTM D2167, or ASTM D2922.
 - 2. Moisture Tests: ASTM D3017.
- D. When tests indicate Work does not meet specified requirements, remove Work, replace and retest.
- E. Proof roll compacted fill surfaces under paving.

3.06 PROTECTION OF FINISHED WORK

- A. Section 017000 - Execution and Closeout Requirements: Protecting finished work.
- B. Reshape and re-compact fills subjected to vehicular traffic.

END OF SECTION

SECTION 312513
EROSION CONTROLS

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
1. Diversion Channels and Devices.
 2. Rock Energy Dissipator.
 3. Paved Energy Dissipator.
 4. Rock Basin.
 5. Rock Barriers.
 6. Sediment Ponds.
 7. Sediment Traps.
- B. Related Sections:
1. Section 031000 - Concrete Forming and Accessories.
 2. Section 032000 - Concrete Reinforcing.
 3. Section 033000 - Cast-In-Place Concrete.
 4. Section 310513 - Soils for Earthwork.
 5. Section 310516 - Aggregates for Earthwork.
 6. Section 311000 - Site Clearing, Grubbing, & Striping.
 7. Section 312316 - Excavation.
 8. Section 312323 - Fill.
 9. Section 329219 - Seeding

1.02 REFERENCES

- A. American Association of State Highway and Transportation Officials:
1. AASHTO T88 - Standard Specification for Particle Size Analysis of Soils.
 2. AASHTO T180 - Standard Specification for Moisture-Density Relations of Soils Using a 10-lb Rammer and an 18-in. Drop.
- B. American Concrete Institute:
1. ACI 301 - Specifications for Structural Concrete.
- C. ASTM International:
1. ASTM C127 - Standard Test Method for Specific Gravity and Absorption of Coarse Aggregate.
 2. ASTM D698 - Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³).
 3. ASTM D1557 - Standard Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort (6,000 ft-lbf/ft³).
 4. ASTM D2922 - Standard Test Method for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth).
 5. ASTM D3017 - Standard Test Method for Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth).
- D. Precast/Prestressed Concrete Institute:

1. PCI MNL-116S - Manual for Quality Control for Plants and Production of Precast and Prestressed Concrete Products.

1.03 SUBMITTALS

- A. Section 013300 - Submittal Procedures: Requirements for submittals.
- B. Product Data: Product Data: Submit data on joint filler, joint sealer, admixtures, curing compounds, and geotextile.
- C. Submit proposed mix design of each class of concrete for review prior to commencement of Work.
- D. Samples:
 1. Submit two samples of rock, minimum 5 tons each or one half total project quantity, whichever is smaller. Provide one sample in place at construction site and provide other sample at quarry. Construction site sample may be incorporated into the Work. Samples will be used as reference for judging size, and gradation of rock supplied and placed.
- E. Test Reports: Indicate certified tests results for precast concrete at manufacturing facility, cast-in-place concrete in field, and granular backfill.
- F. Manufacturer's Certificate: Certify Products meet or exceed specified requirements.

1.04 CLOSEOUT SUBMITTALS

- A. Section 017000 - Execution and Closeout Requirements: Requirements for submittals.

1.05 QUALITY ASSURANCE

- A. Perform Work in accordance with requirements of Section 310513, Section 310516, Section 311000, Section 312316, Section 312323, Section 329219, Section 031000, Section 032000, and Section 033000.
- B. Perform Work in accordance with NYSDOT standards.

1.06 PRE-INSTALLATION MEETINGS

- A. Section 013000 - Administrative Requirements: Pre-installation meeting.
- B. Convene minimum one week prior to commencing work of this section.

1.07 ENVIRONMENTAL REQUIREMENTS

- A. Do not place grout when air temperature is below freezing.
- B. Do not place concrete when base surface temperature is less than 40 degrees F, or surface is wet or frozen.

PART 2 - PRODUCTS

2.01 GEOTEXTILE FILTER FABRIC

- A. Geotextile Fabric: Furnish in accordance with NYSDOT standards.

2.02 PLANTING MATERIALS

- A. Seeding and Soil Supplements: as specified in Section 329219.
- B. Mulch: as specified in Section 329219.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Section 013000 - Administrative Requirements: Verification of existing conditions before starting work.
- B. Verify compacted subgrade granular base stabilized soil is acceptable and ready to support devices and imposed loads.
- C. Verify gradients and elevations of base or foundation for other work are correct.

3.02 SITE STABILIZATION

- A. Incorporate erosion control devices following NYSDEC guidelines into the Project at the earliest practicable time. See drawings for locations.
- B. Construct, stabilize and activate erosion controls before site disturbance within tributary areas of those controls.
- C. Stockpile and waste pile heights shall not exceed 8 feet. Slope stockpile sides at 2: 1 or flatter.
- D. Stabilize any disturbed area of affected erosion control devices on which activity has ceased and which will remain exposed for more than 20 days.
 - 1. During non-germinating periods, apply mulch at recommended rates.
 - 2. Stabilize disturbed areas which are not at finished grade and which will be disturbed within one year in accordance with Section 329219 at percent of permanent application rate with no topsoil.
 - 3. Stabilize disturbed areas which are either at finished grade or will not be disturbed within one year in accordance with Section 329219 permanent seeding specifications.
- E. Stabilize diversion channels, sediment traps, and stockpiles immediately.

3.03 FIELD QUALITY CONTROL

- A. Section 014000 - Quality Requirements: Field inspecting, testing, adjusting, and balancing.
- B. Inspect erosion control devices on a weekly basis and after each runoff event. Make necessary repairs to ensure erosion and sediment controls are in good working order.
- C. Field test concrete in accordance with Section 033000.

- D. Compaction Testing: As specified in Section 312323.
- E. When tests indicate Work does not meet specified requirements, remove Work, replace & retest.
- F. Frequency of Compaction Testing: One for each lift.

3.04 CLEANING

- A. Section 017000 - Execution Requirements: Requirements for cleaning.
- B. When sediment accumulation in sedimentation structures has reached a point one-third depth of sediment structure or device, remove and dispose of sediment.
- C. Do not damage structure or device during cleaning operations.
- D. Do not permit sediment to erode into construction or site areas or natural waterways.
- E. Clean channels when depth of sediment reaches approximately one half channel depth.

3.05 PROTECTION

- A. Section 017000 - Execution: Requirements for protecting finished Work.
- B. Immediately after placement, protect paving from premature drying, excessive hot or cold temperatures, and mechanical injury.
- C. Do not permit construction traffic over paving for 7 days minimum after finishing.

END OF SECTION

SECTION 321216 - ASPHALT PAVING

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Hot-mix asphalt paving.
2. Hot-mix asphalt overlay.
3. Cold milling of existing asphalt pavement.
4. Hot-mix asphalt patching.

B. Related Requirements:

1. Section 312213 "Rough Grading" for subgrade preparation, fill material, separation geotextiles, unbound-aggregate subbase and base courses, and aggregate pavement shoulders.

1.02 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.03 ACTION SUBMITTALS

A. Product Data:

1. Herbicide.

- B. Hot-mix asphalt designs.

1.04 INFORMATIONAL SUBMITTALS

- A. Material Certificates: Include statement that mixes containing recycled materials will perform equal to mixes produced from all new materials.

1. Aggregates.
2. Asphalt binder.
3. Tack coat.
4. Top course and binder course asphalt

1.05 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with materials, workmanship, and other applicable requirements of NYSDOT for asphalt paving work.

1. Measurement and payment provisions and safety program submittals included in standard specifications do not apply to this Section.

PART 2 - PRODUCTS

2.01 AGGREGATES

- A. Coarse Aggregate: ASTM D692/D692M, sound; angular crushed stone meeting NYSDOT Type 2 subbase specifications.

2.02 ASPHALT MATERIALS

- A. Asphalt Binder: ASTM D6373 or AASHTO M 320 binder designation PG 58-28.
- B. Tack Coat: ASTM D977 or AASHTO M 140 emulsified asphalt, slow setting, free of dilution, of suitable grade and consistency for application.

2.03 AUXILIARY MATERIALS

- A. Recycled Materials for Hot-Mix Asphalt Mixes: Reclaimed asphalt pavement; reclaimed, unbound-aggregate base material; and recycled tires asphalt shingles or glass from sources and gradations that have performed satisfactorily in previous installations, equal to performance of required hot-mix asphalt paving produced from all new materials.

2.04 MIXES

- A. Hot-Mix Asphalt: Dense-graded, hot-laid, hot-mix asphalt plant mixes approved by authorities having jurisdiction and complying with the following requirements:
 1. Provide mixes with a history of satisfactory performance in geographical area where Project is located.
 2. Binder Course: 25 mm Superpave.
 3. Surface Course: 9.5 mm Superpave.

2.05 PAVEMENT-MARKING PAINT

- A. Pavement-Marking Paint, Solvent-Borne: MPI #32, solvent-borne traffic-marking paint.
 1. Color: As indicated.
- A. Pavement-Marking Paint, Acrylic: Acrylic, waterborne emulsion, lead and chromate free, ready mixed, complying with FS TT-P-1952F, Type II, with drying time of less than 5 minutes.
 1. Color: As indicated.

PART 7 - EXECUTION

7.01 COLD MILLING

- A. Clean existing pavement surface of loose and deleterious material immediately before cold milling. Remove existing asphalt pavement by cold milling to grades and cross sections indicated.
 - 1. Mill to a depth of 1-1/2 inches.
 - 2. Patch surface depressions deeper than 1 inch after milling, before wearing course is laid.

7.02 PATCHING

- A. Asphalt Pavement: Saw cut perimeter of patch and excavate existing pavement section to sound base. Excavate rectangular or trapezoidal patches, extending 12 inches into perimeter of adjacent sound pavement, unless otherwise indicated. Cut excavation faces vertically. Remove excavated material. Recompact existing unbound-aggregate base course to form new subgrade.
- B. Tack Coat: Before placing patch material, apply tack coat uniformly to vertical asphalt surfaces abutting the patch. Apply at a rate of 0.05 to 0.15 gal./sq. yd..
 - 1. Allow tack coat to cure undisturbed before applying hot-mix asphalt paving.
 - 2. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.
- C. Placing Patch Material: Fill excavated pavement areas with hot-mix asphalt base mix for full thickness of patch and, while still hot, compact flush with adjacent surface.

7.03 SURFACE PREPARATION

- A. Ensure that prepared subgrade is ready to receive paving. Immediately before placing asphalt materials, remove loose and deleterious material from substrate surfaces.
- B. Tack Coat: Apply uniformly to surfaces of existing pavement at a rate of 0.05 to 0.15 gal./sq. yd..
 - 1. Allow tack coat to cure undisturbed before applying hot-mix asphalt paving.
 - 2. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.

7.04 HOT-MIX ASPHALT PLACEMENT

- A. Machine place hot-mix asphalt on prepared surface, spread uniformly, and strike off. Place asphalt mix by hand in areas inaccessible to equipment in a manner that prevents segregation of mix. Place each course to required grade, cross section, and thickness when compacted.

1. Place hot-mix asphalt binder course in number of lifts and thicknesses indicated.
 2. Place hot-mix asphalt surface course in single lift.
 3. Spread mix at a minimum temperature of 250 deg F.
 4. Regulate paver machine speed to obtain smooth, continuous surface free of pulls and tears in asphalt-paving mat.
- B. Place paving in consecutive strips not less than 10 feet wide unless infill edge strips of a lesser width are required.
- C. Promptly correct surface irregularities in paving course behind paver. Use suitable hand tools to remove excess material forming high spots. Fill depressions with hot-mix asphalt to prevent segregation of mix; use suitable hand tools to smooth surface.

7.05 JOINTS AND SEALER

- A. Construct joints to ensure a continuous bond between adjoining paving sections. Construct joints free of depressions, with same texture and smoothness as other sections of hot-mix asphalt course.
1. Clean contact surfaces and apply tack coat to joints.
 2. Offset longitudinal joints, in successive courses, a minimum of 6 inches.
 3. Offset transverse joints, in successive courses, a minimum of 24 inches.
 4. Construct transverse joints at each point where paver ends a day's work and resumes work at a subsequent time.
- B. Apply bituminous joint sealer to vertical edges of exposed/existing asphalt. Type II meeting ASTM D 6690.

7.06 COMPACTION

- A. General: Begin compaction as soon as placed hot-mix paving will bear roller weight without excessive displacement. Compact hot-mix paving with hot hand tampers or with vibratory-plate compactors in areas inaccessible to rollers.
1. Complete compaction before mix temperature cools to 185 deg F.
- B. Breakdown Rolling: Complete breakdown or initial rolling immediately after rolling joints and outside edge. Examine surface immediately after breakdown rolling for indicated crown, grade, and smoothness. Correct laydown and rolling operations to comply with requirements.
- C. Intermediate Rolling: Begin intermediate rolling immediately after breakdown rolling while hot-mix asphalt is still hot enough to achieve specified density. Continue rolling until hot-mix asphalt course has been uniformly compacted to the following density:
1. Average Density, Rice Test Method: 92 percent of reference maximum theoretical density in accordance with ASTM D2041/D2041M, but not less than 91 percent or greater than 96 percent.
- D. Finish Rolling: Finish roll paved surfaces to remove roller marks while hot-mix asphalt is still warm.

- E. Edge Shaping: While surface is being compacted and finished, trim edges of pavement to proper alignment. Bevel edges while asphalt is still hot; compact thoroughly.
- F. Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened.
- G. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked.

7.07 INSTALLATION TOLERANCES

- A. Pavement Thickness: Compact each course to produce thickness indicated within the following tolerances:
 - 1. Binder Course: Plus or minus 1/4 inch.
 - 2. Surface (Top) Course: Plus 1/8 inch, no minus.
- B. Pavement Surface Smoothness: Compact each course to produce surface smoothness within the following tolerances as determined by using a 10-foot straightedge applied transversely or longitudinally to paved areas:
 - 1. Binder Course: 1/4 inch.
 - 2. Surface Course: 1/8 inch.
 - 3. Crowned Surfaces: Test with crowned template centered and at right angle to crown. Maximum allowable variance from template is 1/4 inch.

7.08 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.
- B. Replace and compact hot-mix asphalt where core tests were taken.
- C. Remove and replace or install additional hot-mix asphalt where test results or measurements indicate that it does not comply with specified requirements.

7.09 WASTE HANDLING

- A. General: Handle asphalt-paving waste in accordance with approved waste management plan required in Section 017419 "Construction Waste Management and Disposal."

7.01 PAVEMENT MARKING

- A. Do not apply pavement-marking paint until layout, colors, and placement have been verified with Architect.
- B. Allow asphalt paving or concrete surfaces to age for a minimum of 30 days before starting pavement marking.
- C. Sweep and clean surface to eliminate loose material and dust.

- D. Apply paint with mechanical equipment to produce pavement markings, of dimensions indicated, with uniform, straight edges. Apply at manufacturer's recommended rates to provide a minimum wet film thickness of 15 mils.
 - 1. Apply graphic symbols and lettering with paint-resistant, die-cut stencils, firmly secured to asphalt paving or concrete surface.

END OF SECTION 321216

SECTION 321313 - CONCRETE PAVING

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes Concrete Paving including the following:
 - 1. Walks.
 - 2. Curbing.

1.02 ACTION SUBMITTALS

- A. Samples: For each type of product, ingredient, or admixture requiring color selection.
- B. Design Mixtures: For each concrete paving mixture. Include alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.

1.03 QUALITY ASSURANCE

- A. Ready-Mix-Concrete Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C94/C94M requirements for production facilities and equipment.
 - 1. Manufacturer certified according to NRMCA's "Certification of Ready Mixed Concrete Production Facilities" (Quality Control Manual - Section 3, "Plant Certification Checklist").

1.04 PRECONSTRUCTION TESTING

- A. Preconstruction Testing Service: Engage a qualified independent testing agency to perform preconstruction testing on concrete paving mixtures.

PART 2 - PRODUCTS

2.01 CONCRETE, GENERAL

- A. ACI Publications: Comply with ACI 301 unless otherwise indicated.

2.02 STEEL REINFORCEMENT

- A. Plain-Steel Welded-Wire Reinforcement: ASTM A1064/A1064M, fabricated from as-drawn steel wire into flat sheets.

- B. Deformed-Steel Welded-Wire Reinforcement: ASTM A1064/A1064M, flat sheet.
- C. Reinforcing Bars: ASTM A615/A615M, Grade 60; deformed.
- D. Joint Dowel Bars: ASTM A615/A615M, Grade 60 plain-steel bars. Cut bars true to length with ends square and free of burrs.
- E. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars, welded-wire reinforcement, and dowels in place. Manufacture bar supports according to CRSI's "Manual of Standard Practice" from steel wire, plastic, or precast concrete of greater compressive strength than concrete specified.

2.03 CONCRETE MATERIALS

- A. Cementitious Materials: Use the following cementitious materials, of same type, brand, and source throughout Project:
 - 1. Portland Cement: ASTM C150/C150M, white. portland cement
- B. Normal-Weight Aggregates: ASTM C33/C33M, uniformly graded. Provide aggregates from a single source.
- C. Air-Entraining Admixture: ASTM C260/C260M.
- D. Chemical Admixtures: Admixtures certified by manufacturer to be compatible with other admixtures and to contain not more than 0.1 percent water-soluble chloride ions by mass of cementitious material.
- E. Water: Potable and complying with ASTM C94/C94M.

2.04 CURING MATERIALS

- A. Absorptive Cover: AASHTO M 182, Class 3, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd dry or cotton mats.
- B. Moisture-Retaining Cover: ASTM C171, polyethylene film or white burlap-polyethylene sheet.
- C. Water: Potable.
- D. Evaporation Retarder: Waterborne, monomolecular, film forming, manufactured for application to fresh concrete.
- E. Clear, Waterborne, Membrane-Forming Curing Compound: ASTM C309, Type 1, Class B, dissipating.
- F. White, Waterborne, Membrane-Forming Curing Compound: ASTM C309, Type 2, Class B, dissipating.

2.05 RELATED MATERIALS

- A. Joint Fillers: ASTM D1751, asphalt-saturated cellulosic fiber or ASTM D1752, cork or self-expanding cork in preformed strips.
- B. Slip-Resistive Aggregate Finish: Factory-graded, packaged, rustproof, nonglazing, abrasive aggregate of fused aluminum-oxide granules or crushed emery aggregate containing not less than 50 percent aluminum oxide and not less than 20 percent ferric oxide; unaffected by freezing, moisture, and cleaning materials.

2.06 CONCRETE MIXTURES

- A. Prepare design mixtures, proportioned according to ACI 301 for each type and strength of normal-weight concrete, and as determined by either laboratory trial mixtures or field experience.
- B. Cementitious Materials Limit percentage, by weight, of cementitious materials other than portland cement in concrete as follows:
 - 1. Fly Ash or Pozzolan: 25 percent.
- C. Add air-entraining admixture at manufacturer's prescribed rate to result in normal-weight concrete at point of placement having an air content as follows:
 - 1. Air Content: 5-1/2 percent plus or minus 1-1/2 percent.
- D. Chemical Admixtures: Use admixtures according to manufacturer's written instructions.
- E. Concrete Mixtures: Normal-weight concrete.
 - 1. Compressive Strength (28 Days): 4500 psi .
 - 2. Maximum W/C Ratio at Point of Placement: 0.50
 - 3. Slump Limit: 4 to 6 inches .

2.07 CONCRETE MIXING

- A. Ready-Mixed Concrete: Measure, batch, and mix concrete materials and concrete according to ASTM C94/C94M. Furnish batch certificates for each batch discharged and used in the Work.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Proof-roll prepared subbase surface below concrete paving to identify soft pockets and areas of excess yielding.

3.02 PREPARATION

- A. Remove loose material from compacted subbase surface immediately before placing concrete.

3.03 EDGE FORMS AND SCREED CONSTRUCTION

- A. Set, brace, and secure edge forms, bulkheads, and intermediate screed guides to required lines, grades, and elevations. Install forms to allow continuous progress of work and so forms can remain in place at least 24 hours after concrete placement.
- B. Clean forms after each use and coat with form-release agent to ensure separation from concrete without damage.

3.04 STEEL REINFORCEMENT INSTALLATION

- A. Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.

3.05 JOINTS

- A. General: Form construction, isolation, and contraction joints and tool edges true to line, with faces perpendicular to surface plane of concrete. Construct transverse joints at right angles to centerline unless otherwise indicated.
- B. Construction Joints: Set construction joints at side and end terminations of paving and at locations where paving operations are stopped for more than one-half hour unless paving terminates at isolation joints.
- C. Isolation Joints: Form isolation joints of preformed joint-filler strips abutting concrete curbs, catch basins, manholes, inlets, structures, other fixed objects, and where indicated.
- D. Contraction Joints: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of the concrete thickness to match jointing of existing adjacent concrete paving.
- E. Edging: After initial floating, tool edges of paving, gutters, curbs, and joints in concrete with an edging tool to a 1/4-inch radius. Repeat tooling of edges after applying surface finishes. Eliminate edging-tool marks on concrete surfaces.

3.06 CONCRETE PLACEMENT

- A. Moisten subbase to provide a uniform dampened condition at time concrete is placed. Do not place concrete around manholes or other structures until they are at required finish elevation and alignment.
- B. Comply with ACI 301 requirements for measuring, mixing, transporting, and placing concrete.

- C. Deposit and spread concrete in a continuous operation between transverse joints. Do not push or drag concrete into place or use vibrators to move concrete into place.
- D. Screed paving surface with a straightedge and strike off.
- E. Commence initial floating using bull floats or darbies to impart an open-textured and uniform surface plane before excess moisture or bleedwater appears on the surface. Do not further disturb concrete surfaces before beginning finishing operations or spreading surface treatments.

3.07 FLOAT FINISHING

- A. General: Do not add water to concrete surfaces during finishing operations.
- B. Float Finish: Begin the second floating operation when bleedwater sheen has disappeared and concrete surface has stiffened sufficiently to permit operations. Float surface with power-driven floats or by hand floating if area is small or inaccessible to power units. Finish surfaces to true planes. Cut down high spots and fill low spots. Refloat surface immediately to uniform granular texture.
 - 1. Medium-to-Fine-Textured Broom Finish: Draw a soft-bristle broom across float-finished concrete surface, perpendicular to line of traffic, to provide a uniform, fine-line texture.

3.08 CONCRETE PROTECTION AND CURING

- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.
- B. Comply with ACI 306.1 for cold-weather protection.
- C. Evaporation Retarder: Apply evaporation retarder to concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete but before float finishing.
- D. Begin curing after finishing concrete but not before free water has disappeared from concrete surface.
- E. Curing Methods: Cure concrete by moisture curing, moisture-retaining-cover curing, curing compound, or a combination of these.

3.09 PAVING TOLERANCES

- A. Comply with tolerances in ACI 117 and as follows:
 - 1. Elevation: 3/4 inch
 - 2. Thickness: Plus 3/8 inch minus 1/4 inch
 - 3. Surface: Gap below 10-feetlong; unlevelled straightedge not to exceed 1/2 inch

4. Joint Spacing: 3 inches
5. Contraction Joint Depth: Plus 1/4 inch, no minus.
6. Joint Width: Plus 1/8 inch, no minus.

3.10 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections. The following density testing is required:
 1. Concrete cylinder tests via field sampling and laboratory testing to ascertain compressive strength at frequency of 1 test cylinder for every truckload, up to 12 cubic yards.

3.11 REPAIR AND PROTECTION

- A. Remove and replace concrete paving that is broken, damaged, or defective or that does not comply with requirements in this Section. Remove work in complete sections from joint to joint unless otherwise approved by Engineer.
- B. Protect concrete paving from damage. Exclude traffic from paving for at least 14 days after placement. When construction traffic is permitted, maintain paving as clean as possible by removing surface stains and spillage of materials as they occur.
- C. Maintain concrete paving free of stains, discoloration, dirt, and other foreign material. Sweep paving not more than two days before date scheduled for Substantial Completion inspections.

END OF SECTION

SECTION 321723
PAVEMENT MARKINGS

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
1. Painted markings applied to asphalt paving.
 2. Painted markings applied to concrete surfaces.

1.02 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site or as part of regular meeting.

1.03 ACTION SUBMITTALS

- A. Product Data:
1. Pavement-marking paint, solvent-borne.
 2. Pavement-marking paint, acrylic.
 3. Pavement-marking paint, latex.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Dow Chemical Company (The).
 2. Dunn-Edwards Corporation (a Nippon Paint Holdings Co. Ltd. company).
 3. Insl-X Products; Benjamin Moore & Co.
 4. PPG Paints.
 5. Sherwin-Williams Company (The).

2.02 PERFORMANCE REQUIREMENTS

- A. Accessibility Standard: Comply with applicable provisions in the USDOJ's "2010 ADA Standards for Accessible Design" the ABA standards of the Federal agency having jurisdiction and ICC A117.1

2.03 PAVEMENT-MARKING PAINT

- A. Pavement-Marking Paint, Solvent-Borne: MPI #32, solvent-borne traffic-marking paint.
 - 1. Color: White
- B. Pavement-Marking Paint, Acrylic: Acrylic, waterborne emulsion, lead and chromate free, ready mixed, complying with FS TT-P-1952F, Type II, with drying time of less than 45 minutes.
 - 1. Color: White and Blue for handicap symbols.
- C. Pavement-Marking Paint, Latex: MPI #97, latex traffic-marking paint.
 - 1. Color: White.

PART 3 - EXECUTION

3.01 PAVEMENT MARKING

- A. Do not apply pavement-marking paint until layout, colors, and placement have been verified with Landscape Architect.
- B. Sweep and clean surface to eliminate loose material and dust. Retain option in paragraph below if retaining waterborne emulsion or latex pavement-marking paint.
- C. Apply paint with mechanical equipment to produce pavement markings, of dimensions indicated, with uniform, straight edges. Apply at manufacturer's recommended rates to provide a minimum wet film thickness of 15 mils (0.4 mm).
 - 1. Apply graphic symbols and lettering with paint-resistant, die-cut stencils, firmly secured to asphalt paving or concrete surface.

END OF SECTION

SECTION 321725

WORK ZONE TRAFFIC CONTROL

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Under this item the contractor shall provide for the safe and efficient movement of vehicles and pedestrians through and around his/her work areas, protect workers and the public from damage to person and property which may result directly or indirectly from any construction operations as shown on the construction documents and as ordered by the Engineer or Landscape Architect.

1.02 NOTICES

- B. Provide required notice to the local Fire and Police Departments prior to working in any roadway.
- C. The duration of the contract, for the purpose of this work, shall be from the date any work is started on the contract, including any preparatory work or moving in equipment, signs, trailers, and the like, until the date the work is officially accepted, and the contractor has completely demobilized.
- D. Unless otherwise authorized, the contractor will be responsible for placing/relocating/covering traffic signs during construction until the work is complete. Signs requiring temporary relocation shall be coordinated by the Contractor. All sign work shall be approved by the engineer and authority having jurisdiction over the roadway prior to placing/relocating/covering.
- E. All work and materials within the NYSDOT right of way (ROW) must comply with Section 619 of the NYSDOT Standard Specifications (latest edition), Federal MUTCD (latest Edition), and NYSDOT Supplement to the MUTCD, latest edition.

1.03 SUBMITTALS

- A. Submit detailed Work Zone traffic control plans and schedules. Emergency numbers for staff available 24 hours to make repairs, flagger training certifications and material certifications.
- B. Contractor shall submit catalog cuts, manufacturer's certification, or other materials to prove the materials used for MPT meet all contract requirements and any local, state, and federal law, regulations, or code. Submittals shall be submitted in accordance with the contract documents.

PART 2 - MATERIALS

- 2.01 Such materials as are required that are not to be a part of the completed contract shall be as determined by the Contractor except that they shall conform to any pertinent local, state, and federal law, regulations, or code. All traffic control devices shall meet the specifications stated in the National Manual of Traffic Control Devices (NMUTCD) and the NYS supplement. Materials and equipment must also meet the requirements of the NYSDOT specifications for temporary work zone traffic control (item 619).

- 2.03** Signs, delineators, barricades, barrels, cones, flagging procedures, markings, and similar materials shall meet the requirements of these specifications and shall be in accordance with the plans, applicable NYSDOT Standard Sheets and the Federal Manual of Uniform Traffic Control Devices and NYS Supplement.

PART 3 - EXECUTION

3.01 GENERAL

- A. Such work as is done in providing the facilities and services under this item shall be done in a safe and workmanlike manner and shall conform with any pertinent local, state, or federal law, regulation, or code. Items shall be placed and used in accordance with the manufacturer's recommendations.
- B. Contractor shall maintain all roadways with at least one lane of traffic controlled by flaggers as shown in the contract documents during working hours. Contractor shall provide for two-way traffic during non-working hours.
- C. Contractor shall erect sidewalks closed signs at the nearest intersection along the sidewalk closed to warn pedestrians that the sidewalk is closed.
- D. Contractor shall provide accommodations for pedestrians and access to all pedestrian entrances unless otherwise noted on the plans or approved by the Owner. Pedestrians shall not be accommodated in open travel lanes at any time, except to pass across to main entrance.

3.02 BASIC WORK ZONE TRAFFIC CONTROL

- A. Plans – Provide basic work zone traffic control as shown on the plans. The contractor shall submit detailed means of controlling traffic during construction to the Engineer, and Owner for approval.
- B. Truck Access – All Contractor vehicles shall conform to the contract, and local requirements.
- C. Contractor shall provide work zone traffic control operations that conform to all sections of NYSDOT Standard Specification 619.
- D. Cleaning of Roadway
 - 1. Contractor shall keep the traveled way free of foreign objects such as spilled earth, concrete, stone, rock, timber, and other items that may fall from transporting vehicles. Materials spilled by or dropped from the undercarriage of any carrying vehicle used in Contractor's hauling operations along or across any public traveled way shall be removed immediately.
 - 2. Dusty conditions resulting from Contractor's operations shall be corrected by the use of water. Water used as a dust palliative shall be distributed uniformly over a minimum width of 8 feet by the use of suitable spray heads or spray bar.
 - 3. The roadway shall be inspected by the Contractor near the end of each working day and

any deficiencies corrected immediately.

- E. Flaggers – Contractor shall employ a sufficient number of competent flagmen to control one lane traffic continuously. The Town and/or Engineer shall have the authority to require the Contractor to provide additional flagmen at no additional cost, where, in the opinion of the Town and/or Engineer, vehicular and pedestrian safety is a concern. All flaggers shall be adequately trained in flagging operations by recognized training programs, including the American Traffic Safety Services Association, the National Safety Council, unions, or construction industry associations, or by an individual who holds a current certification as a flagger training instructor from such a program. Flaggers shall be able to communicate verbally either directly to one another or by radio.
- F. Drainage – Contractor shall devote particular attention to all drainage facilities, keeping them fully operative at all times.
- G. Contractor shall have staff available 24 hrs a day, 7 days a week to make repairs to roadways and delineation and guiding devices to ensure the safe passage of vehicles through and around the work areas.

3.03 CONSTRUCTION SIGNS AND BARRICADES

- A. Contractor shall furnish, install, move, remove, and maintain all signs and barricades where indicated on the plans or as directed by the Engineer.

3.04 DELINEATION AND GUIDING DEVICES

- A. Contractor shall provide and maintain delineation and guiding devices which shall include delineators, cones, barrels, flashers, railing, pavement markings (paint, tape or other), and other similar materials or methods acceptable to the Engineer.
 - 1. Provide reflectorized cones and reflectorized barrels with operable flashers on the project site for use where required.

END OF SECTION

SECTION 329113
SOIL PREPARATION

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes planting soils specified by composition of the mixes.
- B. Related Requirements:
 - 1. Section 329220 Planting
 - 2. Section 329410 Planting Soils

1.02 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.03 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For each bulk-supplied material in 5 gallon sealed containers labeled with content, source, and date obtained; providing an accurate representation of composition, color, and texture. Locally sourced aggregates and soils are preferred.

1.04 INFORMATIONAL SUBMITTALS

- A. Field quality-control reports.

1.05 QUALITY ASSURANCE

- A. Testing Agency Qualifications: An independent, state-operated, or university-operated laboratory; experienced in soil science, soil testing, and plant nutrition; with the experience and capability to conduct the testing indicated; and that specializes in types of tests to be performed.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. SOILS

1. Soils to be included in pre-planted sedum trays, as provided by manufacturer.
2. Weighing <100 lbs/cf when fully saturate Amended Native Planting Soils (to be amended on site by Contractor).
3. Soils to be applied to tree, shrub or perennial planting areas.
4. Modify existing stockpiled soils with on-site organic wood chip compost and concrete sand amendments. Soil reaction of pH 6 to 7 and minimum of 8 percent organic-matter content, and 10 percent sand content; friable, and with sufficient structure to give good tilth and aeration.
5. Submit amendment plan to Landscape Architect for approval.
6. Weighing <120lbs/cf when fully saturated.

2.02 SOIL COMPOSITION

- A. All soils: Manufactured soil consisting of manufacturer's basic Green Roof Planting Soil blended in a manufacturing facility with sand, stabilized organic soil amendments, and other materials to produce viable granular planting soil.
1. Additional Properties of Manufacturer's Basic Soil: Soil reaction of pH 6 to 7 and minimum of 5 percent organic-matter content, friable, and with sufficient structure to give good tilth and aeration.
 2. Unacceptable Properties: Soil shall not contain the following:
 - a. Unacceptable Materials: Concrete slurry, concrete layers or chunks, cement, plaster, building debris, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, acid, and other extraneous materials that are harmful to plant growth.
 - b. Unsuitable Materials: Stones, roots, plants, sod, clay lumps, and pockets of coarse sand that exceed a combined maximum of 5 percent by dry weight of the manufactured soil.
 - c. Large Materials: Stones, clods, roots, clay lumps, and pockets of coarse sand exceeding 1-1/2 inches in any dimension.

2.03 INORGANIC SOIL AMENDMENTS

- A. Lime: ASTM C602, agricultural liming material containing a minimum of 80 percent calcium carbonate equivalent and as follows:
1. Class: T, with a minimum of 99 percent passing through a No. 8 sieve and a minimum of 75 percent passing through a No. 60 sieve.
 2. Class: O, with a minimum of 95 percent passing through a No. 8 sieve and a minimum of 55 percent passing through a No. 60 sieve.
 3. Form: Submit form of ground lime for approval.
- B. Sulfur: Granular, biodegradable, and containing a minimum of 90 percent elemental sulfur, with a minimum of 99 percent passing through a No. 6 sieve and a maximum of 10 percent passing through a No. 40 sieve.
- C. Iron Sulfate: Granulated ferrous sulfate containing a minimum of 20 percent iron and 10 percent sulfur.

- D. Perlite: Horticultural perlite, soil amendment grade.
- E. Agricultural Gypsum: Minimum 90 percent calcium sulfate, finely ground with 90 percent passing through a No. 50 sieve.
- F. Sand: Clean, washed, natural or manufactured, free of toxic materials, and according to ASTM C33.

2.04 ORGANIC SOIL AMENDMENTS

- A. Compost: Well-composted, stable, and weed-free organic matter produced by composting feedstock, and bearing USCC's "Seal of Testing Assurance," and as follows:
 - 1. Feedstock: Limited to decomposed leaves.
 - 2. Reaction: pH of 5.5 to 8.
 - 3. Soluble-Salt Concentration: Less than 4 dS/m.
 - 4. Moisture Content: 35 to 55 percent by weight.
 - 5. Organic-Matter Content: 50 to 60 percent of dry weight.
 - 6. Particle Size: Minimum of 98 percent passing through a 2-inch sieve.
- B. Sphagnum Peat: Partially decomposed sphagnum peat moss, finely divided or of granular texture with 100 percent passing through a 1/2-inch sieve, a pH of 3.4 to 4.8, and a soluble-salt content measured by electrical conductivity of maximum 5 dS/m.
- C. Muck Peat: Partially decomposed moss peat, native peat, or reed-sedge peat, finely divided or of granular texture with 100 percent passing through a 1/2-inch sieve, a pH of 6 to 7.5, a soluble-salt content measured by electrical conductivity of maximum 5 dS/m, having a water-absorbing capacity of 1100 to 2000 percent, and containing no sand.
- D. Wood Derivatives: Shredded and composted, nitrogen-treated sawdust, ground bark, or wood waste; of uniform texture and free of chips, stones, sticks, soil, or toxic materials.
- E. Manure: Well-rotted, unleached, stable or cattle manure containing not more than 25 percent by volume of straw, sawdust, or other bedding materials; free of toxic substances, stones, sticks, soil, weed seed, debris, and material harmful to plant growth.

2.05 FERTILIZERS

- A. Superphosphate: Commercial, phosphate mixture, soluble; a minimum of 33 percent available phosphoric acid.
- B. Commercial Fertilizer: Commercial-grade complete fertilizer of neutral character, consisting of fast- and slow-release nitrogen, 50 percent derived from natural organic sources of urea formaldehyde, phosphorous, and potassium in the following composition:
 - 1. Composition: 1 lb/1000 sq. ft. of actual nitrogen, 4 percent phosphorous, and 2 percent potassium, by weight.
 - 2. Composition: Nitrogen, phosphorous, and potassium in amounts recommended in soil reports from a qualified testing agency.

- C. Slow-Release Fertilizer: Granular or pelleted fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorus, and potassium in the following composition:
 - 1. Composition: 15 percent nitrogen, 10 percent phosphorous, and 10 percent potassium, by weight.
 - 2. Composition: Nitrogen, phosphorous, and potassium in amounts recommended in soil reports from a qualified testing agency.

PART 3 - EXECUTION

3.01 GENERAL

- A. Place planting soil and fertilizers according to requirements in other Specification Sections.
- B. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, or acid has been deposited in planting soil.
- C. Confirm with General Contractor that waterproofing and drainage mat are installed and secured for soils to be introduced.

3.02 PREPARATION OF UNAMENDED, ON-SITE SOIL BEFORE AMENDING

- A. Excavation: Excavate soil from designated lawn area(s) to full depth and stockpile until amended.
- B. Unacceptable Materials: Clean soil of concrete slurry, concrete layers or chunks, cement, plaster, building debris, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, acid, and other extraneous materials that are harmful to plant growth.
- C. Unsuitable Materials: Clean soil to contain a maximum of 8 percent by dry weight of stones, roots, plants, sod, clay lumps, and pockets of coarse sand.
- D. Screening: Pass unamended soil through a 2-inch sieve to remove large materials.

3.03 PLACING SOIL

- A. General: Apply manufactured soil on-site in its final, blended condition.
- B. Preparation: Verify waterproofing membrane, drainage layer, plant bed edging, curbs, and all other soil containing elements are properly in place and accepted prior to application of soil.
- C. Application: Spread planting soil to total depth indicated on Drawings, but not less than required to meet finish grades after natural settlement. Do not spread if soil is frozen, muddy, or excessively wet. Utilize amended soil for plantings and lawns.
 - 1. Lifts: Apply lawn soil in lifts not exceeding 6 inches in loose depth. Lightly track to level.

- D. Compaction: Compact each lift of planting soil to 75 percent of maximum Standard Proctor density according to ASTM D698 except where a different compaction value is indicated on Drawings or by manufacturer.
- E. Finish Grading: Grade planting soil to a smooth, uniform surface plane with loose, uniformly fine texture. Roll and rake, remove ridges, and fill depressions to meet finish grades. Allow to settle with rainfall or supplement with a 1” watering at least 24 hours prior to planting. Lightly roll with lawn roller after seed and fertilizer is applied.

3.04 FIELD QUALITY CONTROL

- A. Testing Agency: None.
- B. Perform the following tests and inspections:
 - 1. Compaction: Landscape Architect to be on site to observe lawn-soil compaction after placing each lift and at completion. See Section 014000 "Quality Requirements" for reinspecting requirements and Section 017300 "Execution" for requirements for correcting the Work.
- C. Soil compaction will be considered defective if it does not pass inspections.

3.05 PROTECTION AND CLEANING

- A. Protection Zone: Identify protection zones according to drawings or as established in Staging Plan(s). Provide suitable level surface to allow for soil amendments to be mechanically blended on-site. Secure to avoid soils to run into swales, or wind eroded beyond secured zone.
- B. Protect areas of in-place soil from additional compaction, disturbance, and contamination. Prohibit the following practices within these areas except as required to perform planting operations:
 - 1. Storage of construction materials, debris, or excavated material.
 - 2. Parking vehicles or equipment.
 - 3. Vehicle traffic.
 - 4. Foot traffic.
 - 5. Impoundment of water.
 - 6. Excavation or other digging unless otherwise indicated.
- C. Remove surplus soil and waste material including excess subsoil, unsuitable materials, trash, and debris and legally dispose of them off Owner's property unless otherwise indicated.
 - 1. Dispose of excess subsoil, amendments and unsuitable materials off-site.

END OF SECTION

SECTION 329220

PLANTING

PART 1- GENERAL REQUIREMENTS

1.01 REFERENCES

- A. See drawings for locations of plant materials, Planting Notes, and Mulch Type and depth and plant schedule.
- B. See Division 1, General Requirements, for related items to this Section.

1.02 SAMPLES AND SUBMITTALS

- A. At least five (5) days prior to ordering the materials listed below, submit testing results and/or representative samples to the Landscape Architect for approval.
 - 1. Submit plant material certifications that plant materials are free from hazardous insects or apparent disease from appropriate State or Federal Department of Agriculture.
 - 2. Fertilizer and soil additives (such as compost, Mycorrhizae, etc.) and antidesiccants.
 - 3. Submit 3 lb. sample of planting mulch in unopened bag or box.
 - 4. Submit planting soil pH test from source.
 - 5. Submit proof of contractor/foreman CNLP certification or training.

1.03 EXAMINATION OF CONDITIONS

- A. All areas to be planted shall be inspected by the contractor prior to starting work. Any inconsistencies shall be reported immediately to the Landscape Architect. Commencement by the contractor shall indicate his acceptance of the areas to be planted and assume full responsibility for the work of this Section.

1.04 SCOPE OF WORK

- A. Landscape Contractor is required to contact "Dig Safely NY" prior to doing any excavation on the site. If any work is to be done around underground utilities, the appropriate authority of that utility must be notified of the impending work. The Landscape Contractor shall be responsible for any damages done by himself or his workmen to existing utilities, which shall be repaired or paid for by the Landscape Contractor. The Landscape Contractor will be responsible for obtaining all permits or licenses necessary to complete the work and understand safety protocols for worksite.
- B. Provide all materials, labor, services, equipment, and incidentals necessary for the completion of all planting indicated on the drawings, as specified in this section. Maintain in place materials for thirty (30) days and Guarantee all newly installed plant materials for 12 months after all plants are installed. Written maintenance instructions and a watering schedule must be provided to the Owner before final payment will be made. Guarantee includes all plants on Material Schedule.
- C. Any potential problems as to either suitability or availability of plant material as noted by the Landscape Contractor should be brought immediately to the attention of the Landscape Architect.

- D. Work to be completed shall be coordinated with all other trades on site.
- E. Work is to be performed by workmen familiar with planting procedures and under the supervision of a qualified foreman preferably with a Certified Nursery & Landscape Professional (CNLP) certification. The Landscape Architect has the right to prequalify the Landscape Contractor and/or his foreman based on their training.
- F. Each and every provision of law and clause required by law, shall be deemed to be inserted within these specifications. The Landscape Contractor shall be required to follow all local and state ordinances and laws which apply to this project.

1.05 STANDARDS AND DEFINITIONS

- A. Quality Assurance: Contractor is to conduct all planting operations by experienced personnel under competent supervision.
- B. Plant Approval: All plants will be subject to the approval of the Landscape Architect. Plants shall be inspected at the nursery and upon delivery at the site for conformity to specifications. Landscape Contractor shall be present at all inspections. Rejected plants shall be removed immediately from the site.
- C. Plant materials shall conform to latest edition of "American Standard for Nursery Stock," and shall be typical of their species or variety with normal habit of growth, healthy, well developed root systems and free of disease and insect pests. All trees and a representative sample of all shrubs shall be tagged for inspection with species clearly marked.
- D. ASNS: "American Standard for Nursery Stock," ANSI 260.1, latest edition, published by the American Association of Nurserymen (AAN).
- E. SPN: "Standardized Plant Names," latest edition by the American Joint Committee on Horticultural Nomenclature.
- F. AOAC: Association of Official Agricultural Chemists

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver plants to site in healthy and undamaged condition. Damaged plants shall be removed immediately.
- B. All plants on site shall meet the requirements specified on the planting plan, in the Plant Materials Schedule, and ASNS Standard.
- C. Reject plants when ball of earth surrounding roots has been cracked or broken prior to or during process of planting. Containerized plants shall be checked for girdling and/or excessive roots.

1.07 GUARANTEE

- A. Provide twelve-month guarantee of plant material from date of plant acceptance. Replace plant materials found dead or not in a healthy growing condition. Provide written guarantee and

conditions (i.e. material only), to Landscape Architect and Owner at punch list meeting and prior to final payment.

- B. Replacements: Plant materials of the same size and species, with a new warranty commencing on date of replacement.

PART 2 - PRODUCTS

- A. Water shall be free of substances harmful to plant growth.
- B. Substitutions of plant materials will not be permitted unless authorized in writing.
- C. Planting fertilizer shall be a slow release complete fertilizer granule delivered in original container. The granules shall contain a water-soluble fertilizer to be effective for a minimum of five years and bearing an analysis of 18-10-5 or 12-8-12, or approved optional analysis based on the soil test.
- D. Compost, peat, or organic matter shall be a coarse grade consisting of partially decomposed vegetable matter of natural occurrence. It shall be brown, clean, low in content of mineral and wood material, pH 4 to 5, granulated or shredded and free from weedy grasses, sedges, rushes, or mineral matter harmful to plant growth.
- E. Lime shall be ground agricultural dolomitic limestone.
- F. Steamed Bonemeal shall be horticultural grade with a minimum analysis of 2-27-0 and applied per manufacturer's specifications in areas to receive bulbs or tuberous plants.
- G. Friction guard shall be two ply fiber-bearing rubber garden hose not less than 1/2 inch inside diameter, or equal, black, or green in color.
- H. Wire for tree bracing and guying shall be pliable #12 gauge galvanized soft steel wire.
- J. Anti-desiccants or Anti-transpirants shall be "WiIt-Pruf", "Moisturin", "Vapor Guard", or approved equal delivered in unopened containers which provide an organic and biodegradable protective film over plant surfaces.
- K. Mycorrhizae root growth enhancer shall be water soluble and applied per manufacturer's specifications in plant pit areas to receive new plantings. Submit NPK analysis for approval.
- L. Mulch shall be of uniform size and shape, free of objectionable material and of a type noted in drawings or an approved shredded Hemlock or aged pine bark product. Submit sample for approval.

PART 3 EXECUTION

- A. Any defects in the planting areas, such as incorrect grading, etc., shall be reported to Landscape Architect prior to beginning work.

B. Planting

1. Plants shall be subject to approval by Landscape Architect upon delivery to the project or at any time during the progress of the work for conformity to specified quantity and minimum sizes. Replace plants with cracked or broken balls.
2. Handle all plants at all times in accordance with the best horticultural practices. Adequately protect roots and balls from sun and drying winds. Dig balled and burlapped plants with firm, natural balls of soil of a sufficient diameter to encompass fibrous and feeding roots. Loosen all roots of container grown plants thoroughly on sides and base to assure proper growth.
3. American Association of Nurserymen Standards shall be a minimum.
4. Plant and tree pits shall be as detailed. Backfill with amended native topsoil mixed with compost in the following ratio by volume: 4 Parts topsoil to 1 Part natural organic matter to 1 Part concrete sand. Place plants plumb and straight, centered in pits, and stake all trees. Loosen all bound roots of container grown plants prior to planting. Firmly heel in the soil around the roots. Add root growth enhancer and fertilizer per manufacturer's recommendations. If fertilizer is not applied to planting soil during installation contractor will be required to work granules into top 8 inches of soil around all plants to the satisfaction of the Landscape Architect.
5. For freestanding planter pots: Backfill with amended native topsoil mixed with compost in the following ratio by volume: 3 Parts topsoil to 1 Part natural organic matter to 1 Part concrete sand. Set drainage layer prior to installing. Install in 6" lifts tamping soil to compress and settle.
6. Immediately after planting, prune all trees and shrubs to preserve the natural character of the plant in accordance with the American Association of Nurserymen's standards. Remove all dead wood, suckers and broken or badly bruised branches. Remove all marking tags and tape. Uniformly spray all plants with anti-transpirant as required.
7. Planting season shall be within the following dates unless authorized by Owner:

<u>Evergreen Trees and Shrubs</u>	<u>Deciduous Trees and Shrubs</u>
Spring: April 15 - June 10	Spring: April 1 - June 10
Fall: August 15 - October 15	Fall: August 15 - October 30

*** Planting shall be prohibited in frozen or muddy ground & Contractor must provide a watering schedule to the Owner if planting occurs between June 15 and August 30 to provide sufficient water for optimum growth.

C. Maintenance

Maintenance shall begin immediately after each plant is planted and shall continue for a minimum of thirty (30) days following the completion of all planting installations. Maintenance shall include but not be limited to water, mulch, weed, prune, spray, fertilize, cultivate, reset settled plants, tighten guys and/or maintain, as necessary. Remove from site excess debris and soil. Water immediately after planting if required by conditions.

D. Inspection and Acceptance of Plants

1. Contractor shall request inspection for initial acceptance of planting by the Landscape Architect by giving at least five (5) days notice. This inspection shall take place prior to the end of the 30-day maintenance period and shall include the Owner and Landscape Architect.
2. Upon initial acceptance, Contractor will continue recommending maintenance of plants through the guarantee period.
3. Contractor shall guarantee all plant material to be true to variety and size, and to be in vigorous and healthy growing condition for a period of twelve months from date of Installation. Replace all plants not found to be in vigorous and healthy condition, as determined by the Landscape Architect or Owner as soon as weather conditions permit. All replacement plants are subject to maintenance and guarantee provisions above for a period one year from date of replacement. All necessary repairs and remulching shall be done at contractor's cost.
4. Contractor shall request final inspection for acceptance of planting by the Landscape Architect or Owner representative by giving at least 10 days notice prior to the end of the guarantee period.

F. Protection and Clean-Up Operations

1. Prior to final inspection of project, clean paved areas and other property dirtied or stained by operations specified in this section and remove defacements and stains.
2. Remove construction equipment, excess materials, and tools. Haul from site debris resulting from work of this section, and dispose of legally, and to the satisfaction of the Owner and Landscape Architect.

END OF SECTION

SECTION 329410

PLANTING SOILS

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. All of the Contract Documents, including General and Supplementary Conditions and Division 1 General Requirements, apply to the work of this Section and are hereby made a part of this Section.

1.02 SUMMARY

- A. Scope of Work:

The work of this Section consists of all site preparation work and related items as indicated on the Drawings and/or as specified herein and includes, but are not limited to the following:

1. Evaluation of rough subgrade water infiltration.
2. Planting soil material acquisition.
3. Testing and analysis for specification conformance.
4. Inspection and testing of subgrade for preparation of subgrade.
5. Preparation of mixes and testing for conformance.
6. Installation and placement of soils.
7. Installation and placement of landscape underdrainage piping
8. Decompaction of soils.
9. Mock-up of planting soil profiles.
10. Final in-place testing of soils.
11. Coordination with other trades.
12. Clean-up.

- B. Related Work Under Other Sections:

Carefully examine all of the Contract Documents for the requirements that affect the work of this Section. Other specification Sections that directly relate to the work of this Section include, but are not limited to, the following:

1. Section 312323 – Granular Fill
2. Section 329113 – Soil Preparation
3. Section 329220 – Planting

- C. Definitions:

1. **Compaction:** Compaction of the soil fabric is any force applied to the soil that reduces porosity and where 90 percent of all compaction can be accomplished with only three applications of force under optimum soil moisture conditions.
2. **Dry Soil:** The condition of the soil at or below the wilting point of plant available water in which the soil is powdery and subject to blowing.
3. **Frozen Soil:** The point at which the soil water has frozen and the soil has become very hard and cloddy. Ice crystals can be seen in the pore spaces of the soil.

4. Field Capacity: The percentage of water remaining in a soil two or three days after having been saturated and after free gravimetric drainage has ceased.
5. Moist Soil: The condition of the soil in where it can be formed into a ball and maintain its shape. Deformation of the soil is difficult with hand pressure. Free water is not visible and is usually considered the point between the wilting point and field capacity of the soil.
6. Saturated: All the pore space within a soil is filled with water and the remaining water is under gravitational forces to drain through the profile.
7. Scarification: The loosening of the surface of a soil lift by mechanical or manual means to alleviate compaction of the soil surface. Depth of scarification is dependent on material and extent of compaction. Depths are noted within the specifications.
8. Subsoil: The soil horizon directly below topsoil that provides water holding and structural support to plants. Source of the majority of micro-nutrients.
9. Subgrade: The in-situ soil material that the planting soil will be installed upon.
10. Topsoil: The mineral surface layer of soil that exhibit obliteration of all or much of the original rock structure and must show the following: (1) an accumulation of humified organic matter closely mixed with the mineral fraction and not dominated by properties characteristic of subsurface horizons; (2) has reasonable tilth (biological, chemical and physical properties) to support plant growth; and have two or more of the following:
 - a. a bulk density of less than 1.5g/cc installed.
 - b. less than 15 percent by weight coarse fragments greater than 2mm
 - c. identifiable structure between clods called peds, no massive structure.
 - d. no contamination (i.e.. Toxic weeds, chemicals, heavy metals, construction debris)
11. Wet Soils: Soils that are considered wet will easily be deformed by hand pressure, maintain their shape, and free water will be visible within the pore spaces. The water content at this soil condition is considered at field capacity or wetter.

D. Qualifications and Quality Assurance:

1. Analysis and Testing of Materials Qualifications: For each type of packaged material required for the work of this Section, provide manufacturer's certified analysis. For all other materials, provide complete analysis by a recognized laboratory made in strict compliance with the standards and procedures of the following:

American Society of Testing Materials (ASTM)
American Society of Agronomy
Soil Science Society of America
Association of Official Agricultural Chemists.
U.S Composting Council

2. Quality Assurance Qualifications: Work and materials shall meet the standards of the following references:

International Society of Arboriculture (ISA)
American Society for Testing Materials (ASTM)
Environmental Protection Agency (EPA)
New York Department of Conservation (NYDEC)

3. Installer Qualifications: A qualified landscape installer whose work has resulting in successful establishment of exterior plants.

- a. Installer’s Field Supervision: Require Installer to maintain an experienced full-time supervisor on Project site who has at least 5 years experience with projects of similar scale and complexity.
- b. The Landscape Contractor shall have experience in the proper and safe transportation and installation of soil material.
- c. The Landscape Contractor shall have adequate supervision, staff, equipment and experience needed to complete a project of this magnitude..
- d. The Landscape Contractor shall prepare and present to the Landscape Architect required soil submittals, and their associated specified test results at an absolute minimum of four weeks prior to the scheduled soil and plant installation.
- e. The Landscape Contractor shall have at between 3 to 5 years experience in installing designed soil mixes.

4. Soil Mixing Contractor Qualifications:

- a. Shall be able to provide soil mixes that meet the specifications within tolerances assigned.
- b. Shall be able to produce enough consistently uniform soil material for the project to meet the scheduled demands.
- c. The soil mixing contractor shall be engaged at least six weeks prior to scheduled soil installation to allow for sufficient time for material searches and initial planting mix approval.

5. Testing Laboratory Qualifications: An independent laboratory, recognized as an agriculturally based testing agency, with experience and capability to conduct the testing indicated and that specializes in types of tests to be performed.

- a. Employ a qualified independent testing and inspection laboratory acceptable to the Landscape Architect and Owner to perform tests and certifications indicated.
- b. It is the responsibility of Landscape Contractor in conjunction with the Soil Supplier to submit material for the soil and compost tests.
- c. Tests shall be made in strict compliance with the standards of the Association of Official Analytical Chemists and follow standards from ASTM, EPA, and/or Methods of Soil Analysis, Soil Science Society of America.
- d. Approved Laboratories, other equivalent laboratories can be substituted, but require approval by the Soil Scientist:
- e. Testing Laboratories: These are some examples of testing facilities that can accomplish part of or complete testing of all soil mixes:

Atlantic Testing Laboratories	6085 Court St., Syracuse, NY	315-699-5281
Norm Hummel (Hummel & Co.)	35 King Street, PO Box 606 Trumansburg, NY	607-387-5694
CME Associates	PO Box 1824, 8560 Brewerton Rd. Cicero, NY	315-698-9315
PW Laboratories	6544 Fremont Road, East Syracuse, NY	315-437-1420

1.03 SUBMITTALS AND TESTING

- A. Certificates: Provide certificates required by authorities having jurisdiction, including any composted materials containing sewage sludge and material sources as defined by the Sites documentation. Approval as EPA Type 1 “exceptional quality” is required standards as well for application of composted organic material by state or local regulations.
- B. Testing Intervals for Organic Amendments, Planting Soil Mixes: Testing is required at the following intervals:
1. Testing of the organic compost material: Test certificates required for producers of municipal yard waste composts or composted biosolids are described within this Section 02941 Part 1 and shall follow criteria listed within Part 2 of this section.
 2. Submit complete test results and samples of the S3 and organic soil amendment materials for approval as described within Part 1 following criteria of Part 2 of this section.
 3. After test results for the composted organic material have been accepted the Contractor shall create sample soil mixes for the S1 layer for the planting soil mix and perform the complete tests described in Section 02941, Part 1.
 4. In-place planting soil testing shall follow methods specified in Part 1 of this section for the layers and intervals noted following the specific ranges and limits noted within Part 2 of this section. Incomplete test results shall not be reviewed delaying the approval process.
- C. Test Procedures and Reporting: Submit certified report for each test required. Each test report shall have its associated soil layer clearly marked along with the name of the soil supplier and soil material product name or designation. Only complete submittals with all corresponding test results and samples as list within Part 1 will be reviewed. Submit test results for compost and S3, then after approval, mix and submit the S1 layer.
1. Compost: Analyses of composted organic materials, including composted biosolids, are required prior to initial soil mix acceptance. Analyses shall include all tests specified below and meet the criteria listed in Part 2 of this section. Incomplete test results will not be reviewed, delaying submittal approval.
 - a. Maturity index either by Solvita, Dewar Self Heating or CO₂ evolution sometimes called respirometry.
 - b. Reaction in 1:1 water
 - c. Carbon/Nitrogen ratio
 - d. Foreign Material on a dry weight basis
 - e. Organic Mater percent on a dry weight basis
 - f. Ammonium-N using an extract method
 - g. Salinity using a 1:1 water paste method
 - h. Basic Nutrient content of macro nutrients (P, K, Ca, Mg)
 - i. If the compost material contains any biosolids, heavy metals must be tested to meet EPA Chapter 503 and/or the New York State levels for human use.

2. Soil Mixes and Topsoil: Testing shall be performed and reported for particle size requiring percent of gravel (>2.0 mm), very coarse sand (2.0 – 1.0 mm), coarse sand (1.0 – 0.5 mm), medium sand (0.5 – 0.25 mm), fine sand (0.25 – 0.10 mm), very fine sand (0.10 – 0.05 mm), silt (0.05 – 0.002 mm) and clay (< 0.002 mm). Ammonium-N content, conductivity, soil reaction (pH), basic macro nutrients, CEC and organic matter percentage on a dry weight basis shall also be tested as specifically noted below.
 - a. Particle size distribution by ASTM F1632-03 for all soil layers and topsoil. Fines passing the #270 sieve are to be measured using the hydrometer method as outlined in ASTM F1632. If any alternate method is used, the results still must be reported at the specified particle size breaks listed above or by plotting as a particle size distribution curve on a five cycle semi-log graph.
 - b. Organic matter content by ASTM F 1647, commonly known as loss on ignition.
 - c. Salts and Ammonium test using Woods End Research Laboratory # 104 Soluble Ion Test or 1:2 soil/water extract test as specified in Methods of Soil Analysis, Part 3 and must be tested and made available to the Landscape Architect or Soil Scientist within two weeks of planned soil installation.
 - d. Plant available Phosphorous, Potassium, Magnesium, Calcium and Cation Exchange Capacity tested for the S1 Planting Soil Mix. Quality Assurance samples shall complete only particle size distribution, conductivity (EC), organic matter content, pH, ammonium-N for the S1 material.
 - e. Quality Assurance testing for S3 shall consist of particle size distribution by ASTM F1632, organic matter content, pH and conductivity (EC).
- D. Sources for Soil Components and Planting Soil Mixes: Submit information identifying sources for all soil components and the contractor responsible for mixing of planting soil mixes.
 1. Owner or Landscape Architect shall have the right to reject any soil supplier that cannot meet the testing requirements in a timely fashion, cannot provide timely deliveries, or cannot provide required quantities and/or uniform material.
 2. Soil mix supplier shall have a minimum of five years experience at supplying custom planting soil mixes.
 3. Submit supplier name, address, telephone and fax numbers and contact name.
 4. Submit certification that accepted supplier is able to provide sufficient quantities of materials and mixes for the entire project. Indicate quantity and type of material from each supplier.

1.04 QUALITY ASSURANCE / ACCEPTANCE

- A. Planting Soil QA: During the placement of planting soils, test every 200 cubic yards (or one test for every planting area) of planting soil mix delivered to the job site. Tests shall be for soil mix quality assurance. Required tests for all layers include particle size distribution, pH, and organic matter. Report organic matter content on a percent by weight basis. Additional tests for salts (EC) and Ammonium-N shall be completed for S1 soil layer only. Testing procedures are described in Part 1 of this section.
- B. Samples: Planting soils requires a long lead time. Prior to ordering the listed materials, submit representative samples of the same organic batches and soil mixes that will be used to the Soil Scientist for selection and approval. Do not order materials until the Owner's approval has been obtained. Schedule at least 4 months for soil ingredient search and initial submittal approval. Delivered materials shall closely match the approved samples.

1. Organic amendment: duplicate samples of 1 quart.
2. Planting Soils: duplicate samples of 1 quart for each soil layer after mixing organic material and soil. The Soil Mix shall match the material being placed as closely as possible.
3. A duplicate 1 quart sample of the soil layers and compost shall be sent to the soil consultant for review.

C. In-place Designed Soil Testing:

1. General planting soil installation for planting beds and bio-retention areas shall be tested using a cone penetrometer or equivalent for approximately one point every 100 ft² at an interval after S3 layer installation and again after complete soil profile installation. The planting soil penetration resistance shall be uniformly increasing in density with depth, not exceeding 275 lbs/in². There shall not be any compacted dense layers within the soil profile greater than 50 lbs/in² than the background resistance. Specific penetration resistance rates are given in Part 2 of this section for each soil layer. Infiltration rates of the soil surface (not in mulch) of the Bio-retention areas shall be tested at one test per basin at the lowest point using ASTM 3385 to determine saturated hydraulic conductivity at installation. Records of initial testing will be used to monitor long term performance of the basins with other conductivity testing over time. The soil scientist will also conduct additional investigations on compaction and conductivity based on observed installed soil geomorphological parameters for all Bioretention Basins.
2. In-place Density Tests for any designed soils prescribed under sidewalks and pervious paving surfaces shall be conducted for at least three tests of surface soil density per segment as noted on the drawings. The surface that is to support pavement construction is to be tested. Density testing shall conform to ASTM standards using either ASTM D1556-07 or ASTM D6938-10 and shall be between 88 to 92% of Standard Proctor measured at below optimum moisture content (do not compact planting soils at moisture contents above the "Optimum" line)

D. Planting Soil and Compost Submittal Acceptance: Submittals for planting soil approval must have complete test results attached as specified for each soil, results shall be clearly marked for their corresponding soil layer, clearly labeled with the soil supplier's name, and receipt of soil samples by the Soil Scientist before review of the submittal can take place. Incomplete test results will not be reviewed delaying the approval process.

E. Soil Installation Acceptance: Notify the soil scientist at least 10 days in advance of date of soil placement. Inspection of the soil installation shall take place during placement of the S3 layer while some of the subgrade is visible and another inspection during the placement of the S3 layer before placement of the S1 layer. Final inspection shall take place during S1 installation.

F. Partial Acceptance: Acceptance of partial areas or portions of the total work may be granted at the option of the Landscape Architect only if the area to be inspected for acceptance is large, well defined and easily described. The Landscape Architect is not obligated to provide partial acceptance of the work.

G. Final Acceptance: Final acceptance shall be defined as the date after which the Landscape Architect and Soil Scientist determine that all work, including Punch List items has been satisfactorily completed.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Store and handle packaged materials in strict compliance with manufacturer's instructions and recommendations. Protect all materials from weather, damage, injury and theft.
- B. Sequence deliveries to avoid delay. On-site storage space is permissible only with written notice from Owner. Deliver soil materials only after preparations for placement of planting soil have been completed.
- C. Prohibit vehicular and pedestrian traffic on or around stockpiled planting soil.
- D. Install planting soil layers directly before planting is to commence. Do not install planting soils so that they over-winter without vegetation. Failure to vegetate the planting soil or allowing partial planting soil installation allows for extensive erosion, compaction, and overall degradation of the planting soil system requiring extensive refurbishment before spring planting.
- E. Soil that is to be stockpiled longer than two weeks, whether on or off site, shall not be placed in mounds greater than six feet high. If soil stockpiles greater than six feet high are to be stored for more than two weeks, the contractor shall break down and disperse soil so that mounds do not exceed the six-foot height restriction or thoroughly mix the stockpile once a month.
- F. Vehicular access to the site is restricted. Prior to construction the Contractor shall submit for approval a plan showing proposed routing for deliveries and site access which shall include, but not limited to equipment movements and staging locations.
- G. Soil materials shall be covered at least two weeks prior to installation to prevent excess moisture from saturating the soil stockpile. Test for the moisture content of the soil mix using the gravimetric oven dry method as described in Soil Science Society of America, Methods of Soil Analysis, Part 1, 1986 at least two days prior to soil installation if planting soil moisture content is questionable or at the request of the landscape architect or soil scientist.
- H. Soil materials shall not be handled or hauled, placed or compacted when it is wet, as after precipitation, nor when frozen. Soil shall be handled only when the moisture content is less than 8 percent by volume.
- I. The planting soil shall be mixed in a ball mill or tub mill fitted with proper screening and paddles. Windrowing the materials is not acceptable, as it does not produce uniform mixing of the components.

PART 2 – PRODUCTS

2.01 SOIL LAYERS (HORIZONS)

- A. General
 1. All plant mix material shall fulfill the requirements as specified and be tested to confirm the specified characteristics.
 2. Samples of individual components of plant mixes in addition to blended plant mixes including mulch materials shall be submitted by the Contractor for testing and analysis to the approved testing laboratory. Include verification testing of on-site sub soils through the QA testing. Comply with specific materials requirements specified.

- a. No base component material or soil components for plant soil mixes shall be used until certified test reports by an approved agricultural chemist have been received and approved by the Landscape Architect and Soil Scientist.
 - b. If necessary, testing of the soil material components may be requested by the Soil Scientist to facilitate approval of the plant soil mix.
 - c. As necessary, make any and all plant soil mix amendments and resubmit test reports indicating amendments until approved.
3. The Landscape Architect and Soil Scientist may request additional testing by the Contractor for confirmation of mix quality and/or plant soil mix amendments at any time until completion if quality control samples deviate from the specifications and initially approved submittals.

B. Planting Soil Supply:

1. In the event that any of the soil materials are not available from the supplier or are not in compliance with specifications herein, the Contractor shall obtain material from other suppliers and conduct tests specified herein to provide materials in compliance with these specifications.
2. The Landscape Architect and Soil Scientist shall be notified of all soil mix substitutions or problems with the planting soil supply in order to assist with a smooth delivery and installation.

C. Planting Soils:

1. Soil layer (S3): Planting Soil Drainage Layer consisting of a 6 layer of material with a USDA Texture of coarse sand.
 - a. Soil reaction with a pH between 4.5 – 7.0.
 - b. An estimated saturated conductivity of 10 - 25 cm/hour.
 - c. The S3 layer within the bio-retention swale shall have a, uniformly increasing with depth, penetration resistance of < 250 lbs/in² after installation. No dense layers (+ 50 lbs/in² from background rate) are allowed.
 - d. There shall be no visible organic material present in this layer.
 - e. Material can be a natural sand or finely ground recycled glass meeting the following particle size distribution

S3 Soil Layer Particle Size Distribution

Particle Size Class	Passing Sieve No	Range in Percent Passing ASTM F 1632-03
Fine gravel	10	95 – 100
Very coarse sand	18	80 – 95
Coarse sand	35	60 – 80
Medium sand	60	10 – 40
Fine sand	140	8 – 15
Very fine sand	270	1 – 10
Silt*		1 – 6
Clay*		0 – 4
Chemical		
Organic Matter %	ASTM F 1647-02a	<0.25
pH	1:1 Water	4.5 – 7.0

*determined by hydrometer method in ASTM F1632-03.

2. Soil layer (S1): Planting Soil Surface layer. A layer consisting of material with a USDA Texture of sand to loamy sand amended with organic matter. (must be tested to meet specs after compost is approved and added)
 - a. The soil specifications shall be that the minimum infiltration rate for planting soil areas stays above 5 cm/hour (2 in/hr) after installation.
 - b. The soil shall have soil moisture content less than 8% by weight for installation.
 - c. The S1 layer shall have a uniformly increasing with depth, penetration resistance of < 120 lbs/in² after installation. No dense layers (+ 25 lbs/in² from background rate) are allowed.
 - d. The particle size distribution shall be:

S1 Soil Layer Particle Size Distribution

Particle Size Class	Passing Sieve No	Range in Percent Passing ASTM F 1632-03
Fine gravel	10	95 – 100
Very coarse sand	18	90 – 100
Coarse sand	35	65 – 85
Medium sand	60	30 – 40
Fine sand	140	15 – 25
Very fine sand	270	9 – 18
Silt*		6 – 12
Clay*		3 – 6
Chemical		
Organic Matter %	ASTM F 1647-02a	2 – 4%
pH	1:1 Water	5.5 – 6.5
EC	1:1 paste	1.5 dS/m
Phosphorous (P)	Extract	20 – 100 ppm
Potassium (K)	Extract	200 – 600 ppm
Cation Exchange (CEC)	Extract	<8 Meq/100g

*determined by hydrometer method in ASTM F1632-03

- D. Organic Amendment: 1. Composted Biosolid and municipal yard waste compost producers shall provide the heavy metal certificate of the material delivered as per EPA and state or local standards. Composted organic matter shall have the following criteria:

Criteria	Test Method	Acceptable Range
Type		Brewer's waste, or leaf mulches are also acceptable. Composted municipal waste (chipped, shredded and screened wood, leaves, bark, etc.) alone is not acceptable unless it meets all of the criteria noted
Carbon/Nitrogen Ratio		11:1 – 22:1
Degree of Maturity	Dewer Self Heating <u>OR</u>	VI - V
	Solvita Maturity Index <u>OR</u>	6 - 8

	CO ₂ Evolution	1.2% C/day
Foreign Material	Dry wt.	< 1" dia. And < 2% (of total)
Organic Matter %	Dry wt.	25 – 75%
Reaction	1:1 water	5.5 – 8.0
Ammonium	Extract	< 200 ppm
Nutrient Content	Extract	Contains some nitrogen, phosphorus, potassium, calcium, magnesium, sodium and micronutrients including iron, copper, boron, and manganese. Nutrients shall be present in appropriate agricultural and horticultural proportions to prevent ion antagonism.
Heavy Metals	Extract	Concentrations of zinc, mercury, cadmium, lead, nickel, chromium, and copper must be below EPA and the state standards for biosolid applications to soils with human activity.

E. Planting Soil Mix Equivalency Table:

The mix ratios are rough estimates based on usual components found in the area and their physical properties. Slight adjustments to the mix may be needed to achieve the required planting soil properties.

Layer Designation	Base Material or Equivalent	Second Soil Mix Component	Third Soil Mix Component	Mix Ratio (Volume)
S3 Layer	ASTM C33 Fine Aggregate, non-calcareous Masonry Sand, or fine ground Recycled glass	None	None	None
S1 Layer	Approved S3 material	Sandy loam*	Approved Compost	3:1:1
		Sandy clay loam*	Approved Compost	5:1:1
		Loam*	Approved Compost	4:1:1

*USDA soil textures

2.02 SOIL PROFILES

- A. PROFILE SP-1 – Structural Planting Soil Profile: This planting soil profile consists of one soil horizon. This soil profile shall be areas noted on the drawings that shall receive shrub plantings where shrub roots are encouraged to grown under pavement. The pavement layers are separated by geotextile above a compacted S3 layer with a maximum of 30 inches over a scarified and correctly pitched subgrade or underdrainage gravel where noted on the drawings. The S3 layer is variable and shall be thinned based on underground utilities or obstructions to achieve final grade. The basis for the S3 layer is the sand specified in Part 2.

- B. PROFILE SP-3 – Bio-Retention Basins: This planting soil profile consists of two soil horizons and a landscape underdrainage filtration gravel bed. This soil profile shall be for areas noted on the drawings that are designated as Bio-retention Basins or open shrub pits. The A horizon (S1 layer) of 6 - 8 inches covered with 2-3 inches of specified approved mulch over a 24 inch layer of S3 material placed on landscape filtration gravel within an excavation correctly pitched to the underdrainage piping. The basis for the S1 is the soil mix specified in Part 2. The S3 layer is coarse sand specified in Part 2 of this section.

PART 3 – EXECUTION

3.01 COORDINATION

- A. Pre-Installation Examination Required: The Contractor shall examine previous work, related work, and conditions under which this work is to be performed and shall notify the Owner in writing of all deficiencies and conditions detrimental to the proper completion of this work. Beginning work means the Contractor accepts substrates, previous work, and conditions. The Contractor shall not place any planting soil until all work in adjacent areas is complete and approved by the Owner.
- B. Planting Soil Preparation: Examine soil and remove foreign materials, stones over 1”, and organic debris over 2” in length. Mix-in amendments as required by tests and as approved by the Owner. All preparation and mixing shall be accomplished when the soil moisture content is less than 8 percent by volume.
- C. Coordinate activities with other project contractors so that there is no soil disturbance from traffic or other construction activities subsequent to placement.

3.02 EXCAVATION AND SCARIFICATION

- A. Excavation of the soils shall be accomplished to a depths noted for each soil profile area. All construction debris shall be removed from the planting areas prior to placement of the soil layers. Care shall be taken to avoid working the soil when it has 8 percent moisture content or above.
 - 1. Excavation Depths: (of the subgrade below final grade where applicable)
 - a. All Areas shall be excavated a minimum of 36 inches below final grade or as noted on the drawings for specific locations.
 - 2. Subgrade pitch: The subgrade shall be pitched toward the underdrainage with an average around 1 percent or about 1.25 inches fall per 10 feet or as noted on the drawings.
- B. Scarification of the Subgrade: Scarification must loosen the compacted surface of the subgrade following final rough grade to a depth of 4 to 6 inches prior to the designed soil placement.

3.03 MIXING OF PLANTING SOIL

- A. The planting soil shall be mixed in a ball mill or tub mill fitted with proper screening and paddles. Windrowing the materials is not acceptable, as it does not produce uniform mixing of the components.

- B. Mixing of the compost for the S1 layer (topsoil) shall be accomplished in the same manner as the other mixing procedures. The compost shall be moist, but not overly wet. Compost shall not be so wet as to have water squeezed out by hand or so dry as to be easily blown by wind.

3.04 PLACEMENT OF SOIL LAYERS (HORIZONS)

- A. Examination of Subgrade: The subgrade shall be examined by the Contractor prior to the start of soil placement and planting. Any issue shall be noted and related to the Owner in writing prior to acceptance of the subgrade by the Landscape Contractor:

- B. Planting Soil Placement:

- 1. General Soil Placement Procedures:

- a. Scarify the subgrade to a depth of 4 to 6 inches.
- b. Installation of planting soils shall be accomplished with small, tracked equipment. Back-blading is strictly forbidden as it will overly compact the delicate planting soil. If planting soil has been kept dry and the subgrade is not saturated, installation of the designed planting soil can continue the day after a rain event, unless the subgrade is considerably saturated or has standing water.
- c. Where applicable, place the first layer of S3 in one 6 inch lift. Compaction of this lift shall consist of light tamping by the installers foot traffic. No mechanical compaction shall be allowed except where otherwise noted.
 - i. Adjust the subgrade overall depth to allow 4 inches of S3 material and so that the root flair of shrubs will be 1 to 2 inches above final grade
 - ii. There shall be a pedestal of compacted subgrade under each of the shrub planting areas. Compact this area to 95 percent of standard Proctor at below optimum moisture content then lightly scarify the pedestal surface. The shrub pedestal shall be slightly higher in elevation than the surrounding subgrade to allow drainage away from beneath the rootball.
 - iii. Place at least 4 inches of S3 material on the pedestal area to allow support for the rootball and assist with shrub leveling.
 - iv. Install the 6 to 8 inches of the S1 layer after all plantings have been completed.
- d. Care shall be taken to maintain the separation between the designed soil layers. Do not mix the S1 or S3 with adjacent layers.
- e. Reducing the amount of compaction to the soils can be accomplished by beginning the work in corners, against walls, or at the center of isolated beds, and progressing outwards. This limits the amount of traffic needed for installation on the placed soil.
- f. Planting soils shall never be moved or worked when wet or frozen.
- g. Penetration resistance shall not exceed 200 lbs/ft² within the S3 and the resistance for the S1 layer shall be less than 120 lbs/ft² except where otherwise noted (under pavement plantings). The planting soil shall be uniformly increasing in density with depth. There shall not be any compacted layers within the soil profile.
- h. The Contractor shall place barricades as required to prevent any unnecessary compaction of planting soil layers from vehicles, equipment, or pedestrian traffic during construction and vegetation establishment. Any additional compaction of the planting soils must be loosened satisfactorily to meet penetration resistance specifications.

- 2. Under Pavement Soil Profile Placement: For areas designated PROFILE SP-1

- a. Scarify the subgrade to a depth of 4 to 6 inches.
 - b. Place a variable thickness of S3 drainage layer in 6 inch lifts over the scarified subgrade that is correctly pitched to the underdrainage piping. Compaction of this lift shall consist of light tamping by the installers foot traffic. Compact each remaining lift to between 88 to 92 percent of Standard Proctor below optimum moisture. DO NOT compact soils above optimum moisture content.
 - c. Scarify each lift surface before applying additional lifts to a depth of 2-3 inches. The final lift below the Geotextile and pavement subbase shall not be scarified.
3. Bioretention Basin Soil Profile Placement: For areas designated PROFILE SP-2
- a. The planting soil media shall be mechanically mixed until a homogenous mixture is obtained.
 - b. No other materials or substances shall be mixed or dumped within the bioretention area that may be harmful to plant growth, or prove a hindrance to the planting or maintenance operations.
 - c. Install approved Bioretention washed crushed stone in the bottom of the retention basins, install perforated piping as per the drawings.
 - d. The planting soil media (S3 layer) shall be placed in lifts of 12 to 18 inches, and spread out by means of an excavator bucket or other means to minimize compaction. Placement of the soil media should only occur when it is at the correct moisture content (not wet or dry), and only when there is no precipitation present.
 - e. The Bio-Retention Basin profile follows the Profile SP-2 thickness unless otherwise noted on the Drawings.
 - f. There shall be no abrupt changes in textural class between layers, as this will inhibit infiltration. **NO soil interlayer filter fabric or compact soil zones.**
 - g. The planting soil media should be left to settle for at least one storm event before the final lift so that it can be adjusted in the field to correspond to the plan elevations.
 - h. A 3-inch topdressing of approved mulch shall be placed prior to the establishment of vegetation to protect the swale from construction sedimentation. The mulch can be removed after plantings are established.
 - i. If blowing of material is a concern, biodegradable netting can be spread over the surface until the facility has gone through several wetting cycles.
 - j. The gravel and sand layers shall extend across the entire length and width of the Bioretention Basin as designated on the drawings.

CONSTRUCTION NOTE: For all utility boxes and structures that will be placed completely within the designed soil shall require compacted pedestals to support the structures.
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3.05 PROTECTION AND REPAIRS

- A. General:
1. Protect newly graded areas from traffic, freezing and erosion. Keep free of trash, debris or construction materials. Landscape contractor shall be the only personnel allowed on areas where planting soil has been installed.
 2. Within the installation warranty period repair and re-establish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or compacted due to subsequent construction operations or weather conditions.

3. Scarify or remove and replace material to a depth as directed by the Owner; reshape and re-compact by only hand tamping at the prescribed moisture content.
 4. Where settling occurs, before pavement installation and final soil installation acceptance, backfill with additional approved material, compact to specified rates, and restore any disturbed areas to a condition acceptable to the Owner.
- B. Bio-Remediation Basin Area Protections: To ensure proper long-term functionality of the Bio-Retention Basins, several procedures and scheduling will need to be followed while handling planting soil installation around these areas.
1. Install protective filter socks and erosion controls after excavation and installation of the underdrainage, gravel and filter fabric to restrict sedimentation of the Bio-filtration areas.
 2. Do not install the S3 filter sand prior to planting soil installation. Failure to comply will allow excessive sediment to contaminate the filter sand causing decreased functionality.
 3. Install the S3 filter sand in conjunction the application of the S3 layer. Install 3 inches of coarse wood chip mulch to the final surface of the Bio-retention swale to help trap sediment and prevent infiltration of sediment into the filter sand until vegetation establishment. It is highly recommended to install the complete Bio-retention swales in the summer or during several weeks of dry weather to ensure that erosion is kept to minimum.
 4. Maintain effective erosion and sediment controls throughout the vegetation establishment period.
 5. Vegetate the surrounding catchment areas as quickly as possible.

3.06 POST INSTALLATION MAINTENANCE

- A. Where settling occurs, backfill with additional approved material, compact to specified rates, and restore any disturbed areas to a condition acceptable to the Owner.
1. Any post installation changes or amendments to previously approved soils without the Landscape Architect or Soil Scientist's consent are the responsibility of the owner.
- B. Fertilization of planting areas shall be handled after establishment after soil tests have been taken to determine the optimum fertilizer rates.
- C. The following items are the responsibility of the Owner after the guarantee period to ensure the sustainability of the designed soil and plants for the life of site.
1. After one year, collect soil samples in each of the various soil areas and submit them for laboratory testing for fertilizer and liming recommendations.
 2. Each "type" of soil and planting area shall be sampled separately, but similar areas can be grouped. For example, areas of designed soil in turf areas, planting beds (flower and shrub), and turf areas of pre-existing plantings shall be sampled and tested separately. Fertilization and liming needs to be tailored to each area for maximum effect and to reduce over fertilizing and liming and possible contamination of ground water and runoff.
 3. Repeat soil sampling for these areas every two years after first sampling and fertilize and lime to test recommendations.
 4. Clean and remove sediment build up within all Bio-Filtration Basins on a minimum of a bi-annual basis or less as needed. Removal of sediment on a yearly basis is recommended during the dry summer months so as not to damage/compact the filtration basins.
 5. Inspect and clean out all drainage trenches and subsurface infiltration and underdrainage piping annually.

END OF SECTION

SECTION 334100 - STORM UTILITY DRAINAGE PIPING AND STRUCTURES

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Pipe and fittings.
 - 2. Nonpressure transition couplings.
 - 3. Catch basins/ Contour Structures.
 - 4. Stormwater inlets.
 - 5. Pipe outlets.

1.02 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings:
 - 1. Catch basins, control structures and stormwater inlets. Include plans, elevations, sections, details, frames, covers, and grates.

1.03 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Show pipe sizes, locations, and elevations. Show other piping in same trench and clearances from storm drainage system piping. Indicate interface and spatial relationship between manholes, piping, and proximate structures.

1.04 PROJECT CONDITIONS

- A. Interruption of Existing Storm Drainage Service: Do not interrupt service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary service according to requirements indicated:
 - 1. Notify Owner's Representative no fewer than two days in advance of proposed interruption of service.
 - 2. Do not proceed with interruption of service without Owner's Representative's written permission.

PART 2 - PRODUCTS

2.01 PE PIPE AND FITTINGS

- A. Corrugated PE Pipe and Fittings NPS 12 to NPS 60 AASHTO M 294M, Type S, with smooth waterway for coupling joints.
 - 1. Silttight Couplings: PE sleeve with ASTM D 1056, Type 2, Class A, Grade 2 gasket material that mates with pipe and fittings.
 - 2. Soiltight Couplings: AASHTO M 294M, corrugated, matching pipe and fittings.

2.02 CATCH BASINS AND CURB INLET

- A. Standard Precast Concrete Catch Basins and Curb Inlet:
 - 1. Description: ASTM C 478 precast, reinforced concrete, of depth indicated, with provision for sealant joints.
 - 2. Base Section: 6-inch minimum thickness for floor slab and 4-inch minimum thickness for walls and base riser section, and separate base slab or base section with integral floor.
 - 3. Riser Sections: 4-inch minimum thickness, 48-inch diameter, and lengths to provide depth indicated.
 - 4. Top Section: Eccentric-cone type unless concentric-cone or flat-slab-top type is indicated. Top of cone of size that matches grade rings.
 - 5. Joint Sealant: ASTM C 990 bitumen or butyl rubber.
 - 6. Grade Rings: Include two or three reinforced-concrete rings, of 6- to 9-inch (150- to 225-mm) total thickness, that match 24-inch- (610-mm-) diameter frame and grate.
 - 7. Steps: Individual FRP steps; FRP ladder; or ASTM A 615/A 615M, deformed, 1/2-inch steel reinforcing rods encased in ASTM D 4101, PP, wide enough to allow worker to place both feet on one step and designed to prevent lateral slippage off step. Cast or anchor steps into sidewalls at 12- to 16-inch intervals. Omit steps if total depth from floor of catch basin to finished grade is less than [60 inches .
 - 8. Pipe Connectors: ASTM C 923, resilient, of size required, for each pipe connecting to base section.
- B. Frames and Grates: ASTM A 536, Grade 60-40-18, ductile iron designed for A-16, structural loading. Include flat grate with small square or short-slotted drainage openings.
 - 1. Size: 24 by 24 inches minimum unless otherwise indicated.
 - 2. Grate Free Area: Approximately 50 percent unless otherwise indicated.

2.03 STORMWATER INLETS

- A. Frames and Grates: Heavy duty

PART 3 - EXECUTION

3.01 EARTHWORK

- A. Excavation, trenching, and backfilling are specified in Section 312000 "Earth Moving."

3.02 PIPING INSTALLATION

- A. General Locations and Arrangements: Drawing plans and details indicate general location and arrangement of underground storm drainage piping. Location and arrangement of piping layout take into account design considerations. Install piping as indicated, to extent practical. Where specific installation is not indicated, follow piping manufacturer's written instructions.
- B. Install piping beginning at low point, true to grades and alignment indicated with unbroken continuity of invert. Place bell ends of piping facing upstream. Install gaskets, seals, sleeves, and couplings according to manufacturer's written instructions for use of lubricants, cements, and other installation requirements.
- C. Install gravity-flow, nonpressure drainage piping according to the following:
 - 1. Install piping pitched down in direction of flow.
 - 2. Install PE corrugated sewer piping according to ASTM D 2321.

3.03 PIPE JOINT CONSTRUCTION

- A. Join gravity-flow, nonpressure drainage piping according to the following:
 - 1. Join corrugated PE piping according to ASTM D 3212 for push-on joints.

3.04 CATCH BASIN INSTALLATION

- A. Set frames and grates to elevations indicated.

3.05 STORMWATER INLET INSTALLATION

- A. Construct inlets as indicated.

3.06 CONCRETE PLACEMENT

- A. Place cast-in-place concrete according to ACI 318.

3.07 CHANNEL DRAINAGE SYSTEM INSTALLATION

- A. Install with top surfaces of components, except piping, flush with finished surface.

- B. Assemble channel sections to form slope down toward drain outlets. Use sealants, adhesives, fasteners, and other materials recommended by system manufacturer.
- C. Embed channel sections and drainage specialties in 4-inch minimum concrete around bottom and sides.
- D. Fasten grates to channel sections if indicated.
- E. Assemble channel sections with flanged or interlocking joints.
- F. Embed channel sections in 4-inch minimum concrete around bottom and sides.

3.08 CONNECTIONS

- A. Make connections to existing piping and underground manholes.
 - 1. Use commercially manufactured wye fittings for piping branch connections. Remove section of existing pipe; install wye fitting into existing piping; and encase entire wye fitting, plus 6-inch overlap, with not less than 6 inches of concrete with 28-day compressive strength of 3000 psi .
 - 2. Make branch connections from side into existing piping, NPS 4 to NPS 20 Remove section of existing pipe, install wye fitting into existing piping, and encase entire wye with not less than 6 inches of concrete with 28-day compressive strength of 3000 psi .
 - 3. Make branch connections from side into existing piping, NPS 21 or larger, or to underground manholes and structures by cutting into existing unit and creating an opening large enough to allow 3 inches of concrete to be packed around entering connection. Cut end of connection pipe passing through pipe or structure wall to conform to shape of and be flush with inside wall unless otherwise indicated. On outside of pipe, manhole, or structure wall, encase entering connection in 6 inches of concrete for minimum length of 12 inches to provide additional support of collar from connection to undisturbed ground.
 - a. Use concrete that will attain a minimum 28-day compressive strength of 3000 psi unless otherwise indicated.
 - b. Use epoxy-bonding compound as interface between new and existing concrete and piping materials.
 - 4. Protect existing piping, manholes, and structures to prevent concrete or debris from entering while making tap connections. Remove debris or other extraneous material that may accumulate.
- B. Pipe couplings and expansion joints with pressure ratings at least equal to piping rating may be used in applications below unless otherwise indicated.
 - 1. Use nonpressure-type flexible couplings where required to join gravity-flow, nonpressure sewer piping unless otherwise indicated.
 - a. Unshielded flexible couplings for same or minor difference OD pipes.
 - b. Unshielded, increaser/reducer-pattern, flexible couplings for pipes with different OD.

- c. Ring-type flexible couplings for piping of different sizes where annular space between smaller piping's OD and larger piping's ID permits installation.

3.09 IDENTIFICATION

- A. Materials and their installation are specified in Section 312000 "Earth Moving." Arrange for installation of green warning tape directly over piping and at outside edge of underground structures.
 1. Use detectable warning tape over ferrous piping.
 2. Use detectable warning tape over nonferrous piping and over edges of underground structures.

3.10 FIELD QUALITY CONTROL

- A. Inspect interior of piping to determine whether line displacement or other damage has occurred. Inspect after approximately 24 inches of backfill is in place, and again at completion of Project.
 1. Submit separate reports for each system inspection.
 2. Defects requiring correction include the following:
 - a. Alignment: Less than full diameter of inside of pipe is visible between structures.
 - b. Deflection: Flexible piping with deflection that prevents passage of ball or cylinder of size not less than 92.5 percent of piping diameter.
 - c. Damage: Crushed, broken, cracked, or otherwise damaged piping.
 - d. Infiltration: Water leakage into piping.
 - e. Exfiltration: Water leakage from or around piping.
 3. Replace defective piping using new materials, and repeat inspections until defects are within allowances specified.
 4. Reinspect and repeat procedure until results are satisfactory.
- B. Test new piping systems, and parts of existing systems that have been altered, extended, or repaired, for leaks and defects.
 1. Do not enclose, cover, or put into service before inspection and approval.
 2. Test completed piping systems according to requirements of authorities having jurisdiction.
 3. Schedule tests and inspections by authorities having jurisdiction with at least 24 hours' advance notice.
 4. Submit separate report for each test.
 5. Gravity-Flow Storm Drainage Piping: Test according to requirements of authorities having jurisdiction, UNI-B-6, and the following:
 - a. Exception: Piping with soiltight joints unless required by authorities having jurisdiction.
 - b. Option: Test plastic piping according to ASTM F 1417.
- C. Leaks and loss in test pressure constitute defects that must be repaired.

- D. Replace leaking piping using new materials, and repeat testing until leakage is within allowances specified.

END OF SECTION

SECTION 334400

TRENCHING

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes:
 - 1. Trench excavation, backfill, and compaction for installation of underground piping, piping below slabs, and piping under foundations.
 - 2. Refer to Division 31 – Earthwork for excavation, backfill, grading, and compaction of all other types of trenches.
- B. Related Sections:
 - 1. Section 311000 – Site Clearing, Grubbing, & Stripping.
 - 2. Section 312213 – Rough Grading.

1.02 SCHEDULE OF CONTRACTOR RESPONSIBILITIES

- A. General Construction Contractor shall perform all trench excavation, except for Electrical Contractor. General Contractor shall provide and install material for backfill from top of pipe bedding to required subgrade shown on the drawings, for trenching work required by his Contract.
- B. Each Prime Contractor shall install his work in ample time for backfill, compaction, grading, site and building improvements by General Construction Contractor in areas covered by General Construction contract.
- C. Each Prime Contractor shall reimburse the General Construction Contractor for all work required due to any fault, error, or tardiness on the part of or damage done by him.

1.03 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with applicable requirements of OSHA, governing authorities having jurisdiction, and State Labor Department for trenching work, including required shoring.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Backfill: Material free from cinders, ashes, refuse, vegetable or organic material, boulders, rocks or stones, or other unsuitable material.
 - 1. Sand: Coarse sand, graded from fine to coarse, not lumpy or frozen, containing no more than 10 percent by weight of loam or sand and complying with the following gradation requirements:

- 100% passing 3/4" sieve.
- 0-10% passing the No. 200 sieve.
- 2. Granular fill: PennDOT Type 2RC or NYSDOT Type 4 Material
- 3. Excavated Material: When type of backfill material is not indicated on Drawings or in Project Manual, use material excavated on-site which consists of loam, clay, sand, gravel or other material suitable for backfilling as approved by Landscape Architect. Refer to paragraph 3.3, for backfill requirements under slabs and pavements.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Identify required lines, levels, contours, and datum locations.
- B. Protect plant life, lawns, and other features remaining as portion of final landscaping.
- C. Protect benchmarks, sidewalks and paving, from excavating equipment and vehicular traffic.
- D. Maintain and protect above and below grade utilities indicated to remain.

3.02 EXCAVATION

- A. Excavate at least 50 feet in advance of pipe laying, but no more than one average day's pipe laying.
- B. Excavate bottom of trenches at least 2 feet wider than outside diameter of pipe or structure or as required for sheeting and bracing and proper handling of fittings, etc.
- C. Excavate trenches to depth indicated on Drawings. Provide uniform and continuous bearing and support for bedding material and piping.
- D. When Project conditions permit, slope side walls of excavation as shown on the Drawings. When side walls cannot be sloped, provide sheeting and shoring to protect excavation as specified in this section.
- E. When subsurface materials at bottom of trench are loose or soft, excavate to greater depth until suitable material is encountered, backfill with Type 2 fill, and compact to provide firm subgrade.
- F. Hand trim bottom of trench. Provide "bell holes" at each pipe joint as required for proper joining.
- G. Stockpile material excavated from trenches to prevent rainwater from entering trench. Divert rainwater as required. Do not obstruct existing surface drainage.
- H. Rock Excavation: Comply with SECTION 312316 unless otherwise indicated.

3.03 BACKFILLING

- A. Backfilling Under Pipe:
 - 1. Backfill by hand from the bottom of trench to the centerline of pipe with material as shown on the drawings, placed in 3" layers and compacted by tamping.
 - 2. Place backfill material on both sides of pipe, fittings and appurtenances simultaneously.

- B. Backfilling Over Pipe:
 - 1. Backfill by hand or approved mechanical means from centerline on pipe, fittings and appurtenances to depth as indicated on the drawings, placed in 3" layers and compacted by tamping. Employ placement method that does not damage or disturb utilities in trench.
 - 2. Backfill remainder of trench with material excavated from trench and as indicated below. Place in 8" layers and compact.
Under building slabs and pavements: Backfill and compact remainder of trench to bottom of aggregate base with Type 4 fill as specified in Section 312213 – Rough Grading, Grubbing & Striping.

3.04 FIELD QUALITY CONTROL

- A. The Owner will provide soil testing and inspection during backfill of trenches. Refer to Section 014000 - Quality Requirements: Testing and inspection services.

- B. Test all subgrades and fill layers as follows:
 - 1. In each compacted fill layer, take one compaction test for every 30 lineal feet of trench.

- C. When tests indicate Work does not meet specified requirements, provide additional compaction and testing until specified conditions are met. Additional testing required due to improper installation is the responsibility of the Contractor.

3.05 PROTECTION OF FINISHED WORK

- A. Section 017000 - Execution Requirements: Protecting finished work.

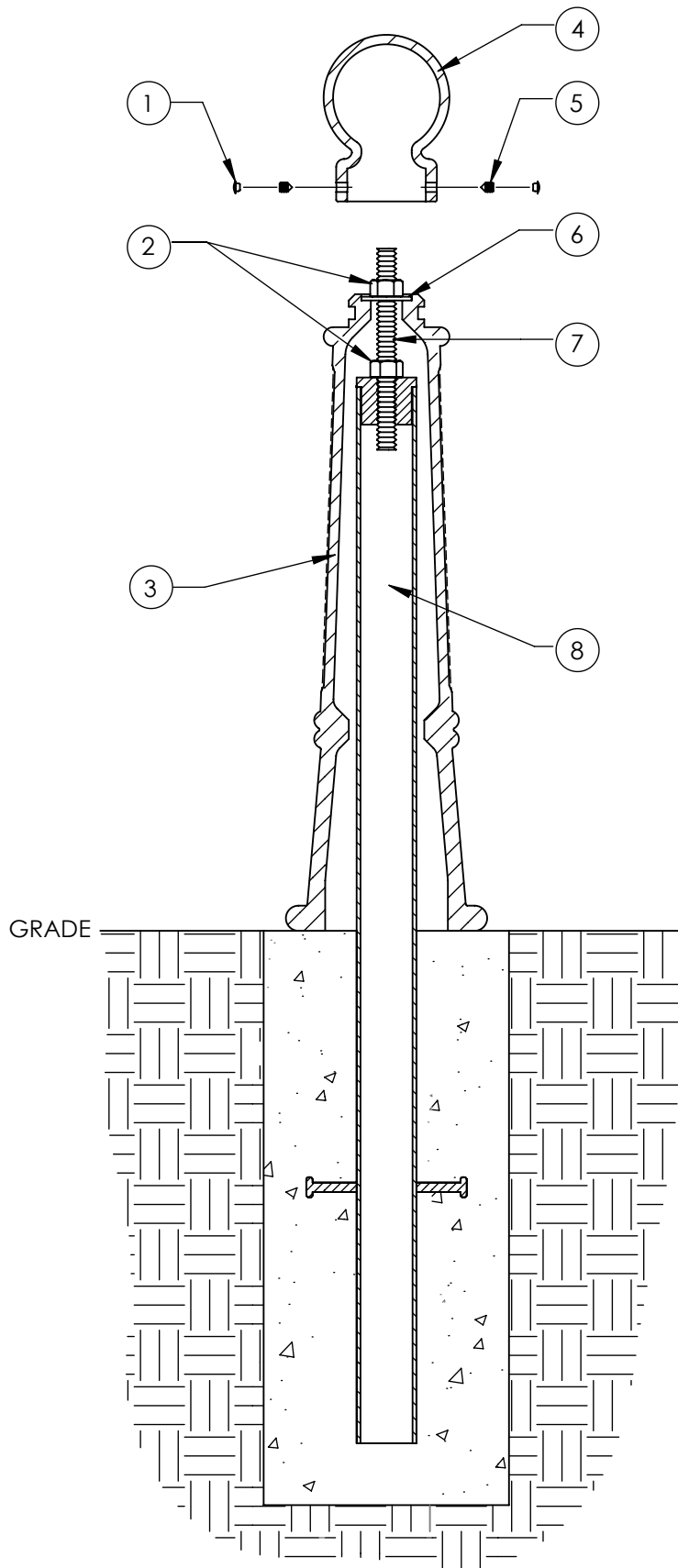
- B. Reshape and re-compact fills subjected to vehicular traffic during construction.

END OF SECTION

Type P - Pipe Mount

Series: Promenade

Product: 100 - GTF



ITEM	QTY	PART	WEIGHT
1	2	Plastic screw caps.	.18g ea.
2	2	3/4" Stainless steel nuts.	.14lbs. ea.
3	1	Cast iron taper flute pedestal.	58.2 lbs.
4	1	Cast iron small globe top.	8.8 lbs.
5	1	3/8" Stainless steel set screws.	3.7 g ea.
6	1	3/4" Stainless steel washer.	.11 lbs.
7	1	8"-long 3/4" dia. stainless steel all-thread.	.8 lbs.
8	1	2" Sched. 40 Steel pipe with threaded plug.	14.5 lbs.

-Install interior pipe according to engineering requirements, screw threaded rod into threaded plug on top of pipe, tighten 3/4" nut onto washer securing bollard in place, then use set screws to secure globe top on tightly.

-Footer detail is for reference only; proper footer construction depends on local soil conditions and engineering requirements.

CITY OF ROME

W. LIBERTY STREET & N. JAMES STREET PARKING LOTS

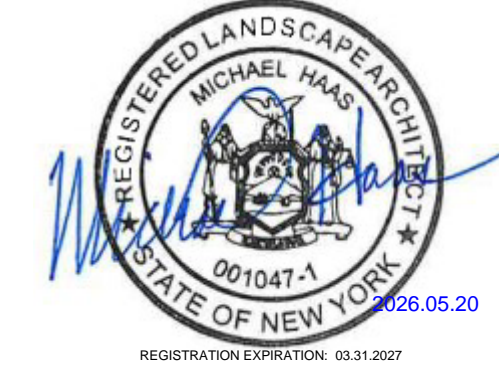
210 W. LIBERTY STREET, ROME, NY 13440

306 N. JAMES STREET, ROME, NY 13440

DELTA PROJECT NO. 2025.369.001

MAY 1, 2026

100% ISSUE FOR BID (IFB) DRAWINGS



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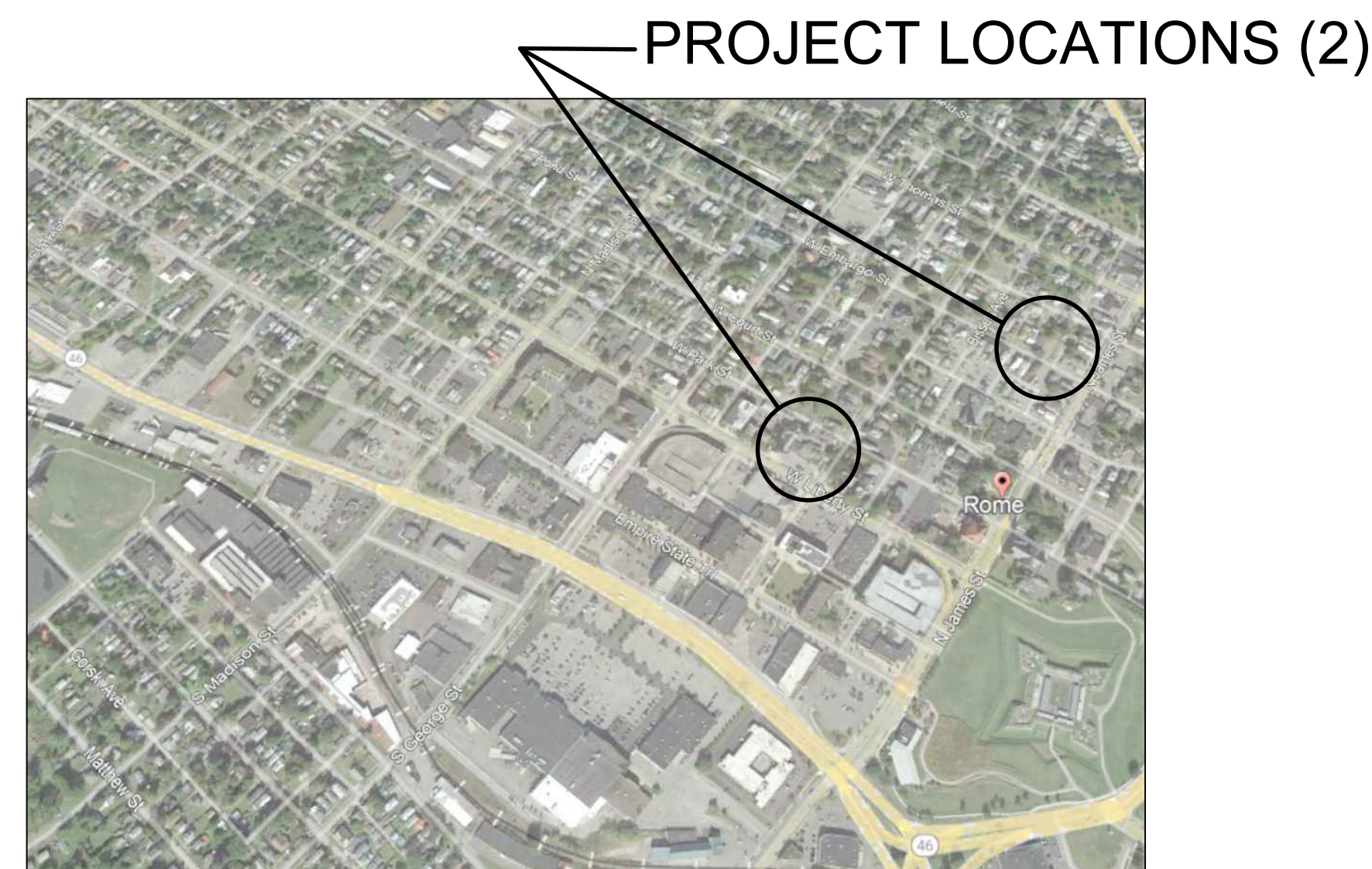
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PROJECT LOCATION



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CITY OF ROME

MAYOR: JEFFREY LANIGAN
DEPUTY DIRECTOR COMMUNITY & ECONOMIC DEVELOPMENT
MATTHEW ANDREWS



TS

GENERAL PROJECT NOTES

- LANDSCAPE ARCHITECT ACCEPTS NO RESPONSIBILITY FOR DAMAGE TO PROPERTY OR PERSONAL INJURY OCCURRING DURING CONSTRUCTION OR THEREAFTER. CONTRACTOR IS RESPONSIBLE FOR ALL APPLICABLE INSURANCES, CONSTRUCTION METHODS AND PERMITS.
- THE COST OF ALL GRANULAR MATERIAL SHALL BE INCLUDED IN THE PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE OWNER, WILL NOT BE DAMAGED.
- CONTRACTOR SHALL BE RESPONSIBLE TO TAKE ALL PRECAUTIONS NECESSARY TO PROTECT ALL EXISTING BUILDING WALLS, PAVEMENTS, UTILITIES, JOB SAFETY & PROTECTION OF TRAFFIC.
- IF CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE OR WHICH ARE TO REMAIN THE PROPERTY OF THE VILLAGE, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR IN A MANNER SATISFACTORY TO THE LANDSCAPE ARCHITECT & OWNER.
- WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THOSE ITEMS.
- PRIOR TO CONSTRUCTION, CONSULT WITH LOCAL OFFICIALS & UTILITY COMPANIES TO DETERMINE THE LOCATION OF UTILITIES WITHIN PROJECT LIMITS. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE NY ONE-CALL SERVICE BEFORE BEGINNING ANY EXCAVATION WORK.
- ANY CORNER SURVEY PINS OR EASEMENT FLAGS DAMAGED OR MOVED DURING CONSTRUCTION MUST BE REPLACED AT THE CONTRACTORS EXPENSE PRIOR TO COMPLETION OF CONSTRUCTION.
- IT IS CRITICAL THAT THE CONTRACTOR HAS THE PROPER EQUIPMENT AND INSTRUMENTS ON SITE TO VERIFY GRADES DURING CONSTRUCTION. EFFECTIVE METHODS FOR MAINTAINING GRADES AND SLOPES OF PAVEMENTS SHALL BE EMPLOYED IN ORDER TO MAINTAIN POSITIVE DRAINAGE AS INDICATED.

GENERAL SITE ACCESS AND PUBLIC USE NOTES

- CONTRACTOR SHALL STAGE & SCHEDULE CONSTRUCTION TO ACCOMMODATE UNOBSTRUCTED AND SAFE PUBLIC ACCESS TO ADJACENT BUILDING ENTRANCES AT ALL REGULAR OPERATING TIMES.

GENERAL STOCKPILE NOTES

- STOCKPILED MATERIAL SHALL BE COVERED WITH TARPS AND/OR STRAW IMMEDIATELY FOLLOWING COMPLETION OF EXCAVATION EFFORT.
- ALL STOCKPILES TO BE ENCLOSED BY SILT FENCE, PLACED AS DESCRIBED IN THE SILT FENCE NOTES.
- WORK AND TARPS ARE SUBSIDIARY TO THE PROJECT.
- ONSITE STOCKPILE LOCATIONS TO BE WITHIN PROPERTY LIMITS. CONTRACTOR NOT TO STOCKPILE OR DISTURB SOIL BEYOND GRADING LIMITS AND APPROVED LOCATIONS, UNLESS APPROVED BY OWNER.
- REMOVE EXISTING SOD AND TOPSOIL, AND EXCAVATE TO DEPTH SPECIFIED IN DETAILS. STOCKPILE ALL TOPSOIL FOR REUSE.

GENERAL E&SC NOTES AND SEEDING NOTES

- SILT FENCES AND OTHER FORMS OF EROSION CONTROL MUST BE INSTALLED PRIOR TO THE START OF WORK AND SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS ARE STABILIZED (SEE E&SC AS SHOWN IN THE FIRE PIT AREA PLANS).
- TREE PROTECTION SHALL CONSIST OF SNOW FENCE SECURELY STAKED AT DRIP LINE OF INDIVIDUAL TREES. TREE PROTECTION SHALL REMAIN IN PLACE THROUGH THE DURATION OF THE CONTRACT.
- ALL DISTURBED AREAS SHALL BE FINE GRADED, REMOVING ALL ROOTS, STICKS, STONES AND DEBRIS GREATER THAN 2 INCHES IN ANY DIRECTION.
- DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT OPERATIONS IN SUCH A MANNER AS TO PREVENT OR REDUCE TO A MINIMUM ANY DAMAGE TO ANY STORMWATER PRACTICE FROM POLLUTION BY DEBRIS, SEDIMENT, OTHER FOREIGN MATERIAL, OR FROM MANIPULATION OF EQUIPMENT AND/OR MATERIALS NEAR SUCH PRACTICE. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO A STORMWATER PRACTICE ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, CEMENT, OIL OR OTHER IMPURITIES.
- SEED, MULCH, AND FERTILIZE AS NECESSARY TO RESTORE ALL DISTURBED LAWN AREAS TO ORIGINAL CONDITION OR BETTER.
- LAWN FERTILIZER SHALL BE 55% NITROGEN, 10% PHOSPHORUS AND 10% POTASH WHERE 50% OF THE NITROGEN IS DERIVED FROM UREA FORM SOURCE.
- LAWN SEED WHEN NOT GIVEN ON THE PLANS SHALL BE SELECTED FROM THE PREVIOUS YEAR'S CROP, FURNISHED AND DELIVERED PREMIXED IN THE FOLLOWING PROPORTIONS AND REFERRED TO AS LAWN MIX, OR EQUAL.

GRASS MIXTURE PERCENTAGE BY WEIGHT:

- 35% PERENNIAL RYE GRASS
- 25% CHEWINGS FESCUE
- 20% TURF TYPE ANNUAL RYE GRASS
- 25% KENTUCKY BLUEGRASS
- 5% CLOVER

SEED SOURCES: (SEED SOURCES FOR ABOVE MIXES OR SPECIES INCLUDE BUT ARE NOT LIMITED TO:)
(LAWN MIX)

- a. THE PAGE SEED COMPANY, GREENE, NY, 607-656-4107
- b. NORTHERN NURSERIES, SYRACUSE, NY, 315-699-3999
- c. ERNST SEED CO., MEADVILLE, PA, 800-873-3321

- LABELS MUST SHOW THE PERCENTAGE BY WEIGHT AND ALL PARTICULARS OF EACH INGREDIENT IN THE MIXTURE.
- IF NO NEW TOPSOIL IS REQUIRED, THOROUGHLY LOOSEN SOIL IN AREAS TO BE SEED TO A MINIMUM OF 4 INCHES WITH APPROVED EQUIPMENT. REMOVE ROCKS, DEBRIS, CLOUDS OR OTHER HARMFUL SUBSTANCES, AND MAINTAIN GRADING AND DRAINAGE PATTERNS, TRACK DOZER PERPENDICULAR TO SLOPE TO LEAVE TRACKS FOR SEED TO SETTLE AND REDUCE RILLS AND RUNOFF.
- WHEN PLACING BY HYDROSEEDING APPLICATION SEED SHALL BE PLACED AT 80 POUNDS PER ACRE, HYDROMULCH AT 1,200 POUNDS PER ACRE, WATER AT 500 GALLONS PER ACRE, AND FERTILIZER AT MINIMUM OF 220 POUNDS PER ACRE.
- IF PLACING BY MECHANICAL MEANS FERTILIZER SHALL BE PLACED AT 25 POUNDS PER 1000 SQUARE FEET, SEED AT 5 POUNDS PER 1000 SQUARE FEET, AND STRAW MULCH AT 2 TONS PER ACRE. PLACE FERTILIZER AND SEED, THEN LIGHTLY RAKE AND ROLL WITH 200 POUND ROLLER. MULCH THE AREA, WHEN WATER. STRAW MULCH MAY NEED TO BE SECURED TO KEEP IT FROM BLOWING AWAY.
- WATER LAWN AREAS AS NEEDED TO PROMOTE GROWTH, OR SEED WHEN RAIN IS IMMINENT. THE CONTRACTOR WILL BE RESPONSIBLE TO WATER, RESEED, OR MULCH TO INSURE GROWTH OF SEEDED AREAS UNTIL COMPLETE AND UNIFORM STAND OF GRASS HAS BEEN ESTABLISHED AND CUT AT LEAST TWICE. RESEEDING: THE CONTRACTOR SHALL CONTINUE TO REPAIR WASHOUTS AND RESEED UNSATISFACTORY AREAS DURING THE 6 MONTH WARRANTY PERIOD, AS SATISFACTORY TO THE OWNER AND THE LANDSCAPE ARCHITECT.

E&SC MAINTENANCE NOTES

- ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION AT LEAST EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.
- SEDIMENT WILL BE REMOVED FROM BEHIND THE FILTER FABRIC WHEN IT BECOMES ABOUT ONE-HALF (1/2) THE DEPTH OF THE FENCE. THE FILTER FABRIC FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A CONSTANT BARRIER.
- THE THICKNESS OF THE ROCK CONSTRUCTION ENTRANCE SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSION BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL WILL BE MAINTAINED BY CONTRACTOR ON SITE FOR THIS PURPOSE.
- DURING THE COURSE OF EACH WORKDAY, ALL SEDIMENT DEPOSITED ON THE PUBLIC ROAD ROADWAYS AND SIDEWALKS SHALL BE REMOVED AND RETURNED TO THE WORK AREA.
- SEDIMENT REMOVED FROM BMP'S WILL BE DISPOSED OF AS UNSUITABLE MATERIAL OFF-SITE, UNLESS APPROVED BY LANDSCAPE ARCHITECT.
- ALL SEEDED AREAS WILL BE RE-FERTILIZED, RE-SEEDED AS NECESSARY, AND MULCHED ACCORDING TO THE SPECIFICATIONS TO MAINTAIN A DENSE VEGETATIVE COVER.

GENERAL DEMOLITION NOTES

- BRUSH REMOVAL INCLUDES SHRUBS, VINES, AND DEAD WOOD AS INDICATED. ALL REMOVALS SHALL BE DONE BY HAND AS MUCH AS POSSIBLE TO MINIMIZE DAMAGE TO SLOPES. ALL DEBRIS SHALL BE DISPOSED OF LEGALLY OFF-SITE.
- ALL MATERIAL TO BE REMOVED SHALL BE DISPOSED OF LEGALLY OFF SITE.
- SALVAGE ALL PERSONAL EFFECTS AS DIRECTED BY OWNER AND LANDSCAPE ARCHITECT.
- INSTALL AND MAINTAIN TRAFFIC PEDESTRIAN AND LOCAL VEHICULAR TRAFFIC SAFELY AND AROUND PROJECT DURING CONSTRUCTION. MAINTAIN A SAFE ENTRY AND EGRESS FROM BUILDING AT ALL TIME TO MEET STATE SAFETY REQUIREMENTS.

GENERAL LAYOUT NOTES

- CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY, FIELD CHANGES MUST BE APPROVED LANDSCAPE ARCHITECT.
- DIMENSIONS NOTED WITH A +/- ALLOW CUSHION FOR DISCREPANCY. ALL DIMENSIONS ARE PERPENDICULAR TO OUTSIDE FACE OF OBJECT THEY INTERSECT.
- WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE OFF DRAWINGS.
- SEE DETAILS FOR ADDITIONAL LAYOUT INFORMATION.
- CONTRACTOR TO FIELD LOCATE AND STAKE-OUT MAJOR SITE ELEMENTS FOR APPROVAL PRIOR TO EXCAVATION.
- FINAL PAVER AND HARDSCAPE ELEMENTS COLORS TO BE DETERMINED BY LANDSCAPE ARCHITECT AND APPROVED BY OWNER. CONTRACTOR TO PROVIDE 5x5' MOCK UP OF PATTERN TO BE APPROVED.

GENERAL UTILITY NOTES

- ALL ELECTRICAL WORK SHALL BE COMPLETED IN ACCORDANCE WITH STATE AND LOCAL CODES.
- ALL UTILITY WORK TO BE COMPLETED BY A QUALIFIED INDIVIDUAL, LICENSED TO PRACTICE IN THE LOCAL STATE/MUNICIPALITY

GENERAL PLANTING NOTES

- ANY SUBSTITUTIONS OF PLANT MATERIALS MUST BE APPROVED BY LANDSCAPE ARCHITECT BEFORE INSTALLATION.
- CONTRACTOR IS TO TAKE ALL PRECAUTIONS NECESSARY TO LIMIT DAMAGE TO EXISTING TREES AND SHRUBS. DO NOT DRIVE OVER OR STOCKPILE MATERIALS ON ROOT ZONE OF TREES.
- CONTRACTOR SHALL USE BEST HORTICULTURAL PRACTICE IN PLANTING INSTALLATION AND HANDLING OF NEW & TRANSPLANTED MATERIAL. SEE TYPICAL INSTALLATION DETAILS FOR MINIMUM STANDARDS.
- PLANTING PITS SHALL BE DUG TWICE THE WIDTH OF ROOT BALLS & BACKFILLED TO THE DEPTHS INDICATED ON THE DETAILS. PREPARED SOIL MIX SHALL CONSIST OF A UNIFORM MIXTURE BY VOLUME OF 2 PARTS TOPSOIL, 1 PART ORGANIC MATTER (IE. COMPOST OR EQUAL). APPLY A GRANULAR SLOW RELEASE FERTILIZER PER MANUFACTURER'S INSTRUCTIONS. SUBMIT ANALYSIS TO L.A. FOR APPROVAL. SEE SPECS FOR ANALYSIS REQUIREMENTS.
- SEE SPECIFICATIONS FOR GUARANTEE AND REQUIRED SUBMITTALS.
- ALL NEW EVERGREEN PLANTS ARE TO BE WILT-PROOFED IN LATE FALL. USE ACCORDING TO MANUFACTURERS INSTRUCTIONS.
- CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT AND OWNER 48 HOURS IN ADVANCE OF PLANTING SCHEDULE. PLANTINGS AND BED EDGES ARE TO BE VISIBLY ESTABLISHED BY CONTRACTOR AND APPROVED BY LANDSCAPE ARCHITECT BEFORE INSTALLATION.
- TREES ARE TO BE STAKED AND GUYED PER DISCRETION OF LANDSCAPE ARCHITECT.
- COORDINATION WITH LANDSCAPE ARCHITECT & OWNER AND OTHER SUBCONTRACTORS IS NECESSARY FOR AN EFFICIENT AND QUALITY PROJECT.
- LANDSCAPE ARCHITECT TO VERIFY LOCATIONS OF ALL BULB MASSING ON PLANS BEFORE INSTALLATION BY CONTRACTOR. PERENNIALS TO BE FIELD LOCATED.

PLANTING MAINTENANCE AGREEMENT

- FOR ALL MAINTENANCE REQUIREMENTS, IF CONTRACTOR DOES NOT PERFORM WORK, ALTERNATIVE MEANS WILL BE PURSUED BY THE OWNER AT THE EXPENSE OF THE CONTRACTOR.
- TREES AND SHRUBS
 - A. IMMEDIATELY AFTER PLANT INSTALLATION AND FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION, PROVIDE SUPPLEMENTAL WATERING DURING EXTENDED PERIODS OF DROUGHT. USE OF TREE GATORS ACCEPTABLE.
 - B. CLOSELY MONITOR NEWLY PLANTED TREES AND SHRUBS DURING FIRST SEASON FOR SIGNS OF DROUGHT STRESS, DISEASE, PEST INFESTATION OR STRUCTURAL DEFECT. ADDRESS ANY AND ALL ISSUES PROMPTLY IN SUCH A MANNER THAT CONTAINS CONTAGIONS AND PREVENTS FUTURE PROBLEMS.
- PERENNIALS & OTHER HERBACEOUS LANDSCAPE AREAS:
 - A. WEEDING IS REQUIRED UNTIL VEGETATION IS ESTABLISHED. WEEDS SHOULD BE REMOVED BY HAND.
 - B. DEBRIS AND TRASH SHALL BE DISPOSED OF AT SUITABLE DISPOSAL/RECYCLING SITES AND MUST COMPLY WITH STATE, LOCAL, AND FEDERAL REGULATIONS.
 - C. DETRITUS IS TO BE REMOVED APPROXIMATELY TWICE PER YEAR. DEAD OR DISEASED PLANTS SHOULD BE REPLACED AND NOXIOUS INVASIVE PLANTS SPECIES SHOULD BE REMOVED. PERENNIAL PLANT SPECIES MAY BE CUT BACK AT THE END OF THE GROWING SEASON, OR BEFORE THE BEGINNING OF THE FOLLOWING GROWING SEASON.
 - D. MULCH SHOULD BE REPLACED WHEN EROSION IS EVIDENT. MULCH FOR THE ENTIRE PLANTING AREAS SHOULD BE REPLENISHED ANNUALLY UNTIL DENSE PLANT COVER IS ESTABLISHED.
 - E. IMMEDIATELY AFTER PLANT INSTALLATION AND FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION, PROVIDE SUPPLEMENTAL WATERING DURING EXTENDED PERIODS OF DROUGHT.

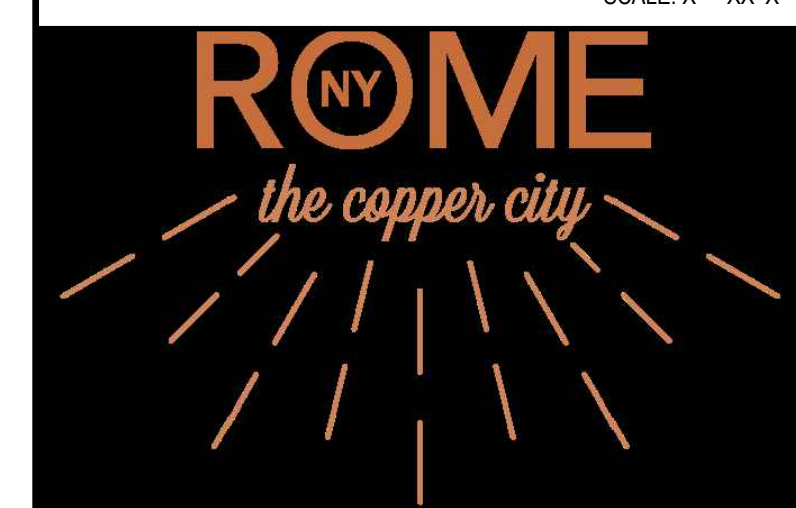
GENERAL GRADING & DRAINAGE NOTES

- CONTRACTOR RESPONSIBLE FOR VERIFYING EXISTING TOPOGRAPHY WITHIN THE PROJECT LIMITS. INFORM LANDSCAPE ARCHITECT IMMEDIATELY IF DISCREPANCIES WITH EXISTING CONDITIONS TOPOGRAPHY IS FOUND.
- IT IS IMPORTANT THAT THE CONTRACTOR HAS THE PROPER EQUIPMENT ON SITE TO ESTABLISH DESIGN GRADES DURING CONSTRUCTION.
- ALL INVERT ELEVATIONS SHALL BE FIELD CHECKED BEFORE STARTING TO WORK.
- ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.
- ALL DIVERSIONS OR SWALES TO HAVE STAKED HAY-BALE FILTERS INSTALLED FOR EROSION CONTROL THE SAME DAY THEY ARE GRADED.
- TOPSOIL TO BE REMOVED TO BE STOCKPILED FOR REUSE IF PRACTICAL.
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.
- AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL, VEGETATION, ROOTS, OR OTHER OBJECTIONABLE MATERIAL.
- AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH PF 4" PRIOR TO PLACEMENT OF TOPSOIL.
- ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE, OR OTHER RELATED PROBLEMS.
- ALL FILL TO BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 8" IN THICKNESS UNLESS NOTED OTHERWISE.
- FILL MATERIAL SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FROZEN MATERIALS OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED IN FILLS.
- FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- IN SUBGRADE AREAS WHERE UNSUITABLE SOILS EXIST, CONTRACTOR TO EXCAVATE AND REPLACE PER SPEC.
- SPOT ELEVATIONS AND SLOPE ARROWS ARE PROVIDED TO SHOW PROPOSED SURFACE DRAIN PATTERNS ON THE PROJECT SITE.
- ANY EXCESS EXCAVATED SOILS AT THE END OF THE JOB SHALL BE REMOVED FROM THE SITE & DISPOSED OF IN AN APPROVED MANNER AT NO ADDITIONAL COST.

ABBREVIATIONS (LANDSCAPE)

@	AT
&	AND
ALT.	ALTERNATE
APPROX.	APPROXIMATELY
APRVD.	APPROVED
B&B	BALLED & BURLAPPED
BOB (or) BB	BOTTOM OF BANK
BOC (or) BC	BOTTOM OF CURB
BOW (or) BW	BOTTOM OF WALL
CAL.	CALIPER
CB	CATCH BASIN
CL	CENTER LINE
CONC.	CONCRETE
CONT.	CONTAINER (or) CONTINUE
DIA.	DIAMETER
DEMO.	DEMOLISH (or) DEMOLITION
DWG	DRAWING
E&SC	EROSION AND SEDIMENT CONTROL
ELEV.	ELEVATION
EXIST.	EXISTING
EXP. JT.	EXPANSION JOINT
FIN	FINISHED
FFE	FINISHED FLOOR ELEVATION
GAL.	GALLON
GALV.	GALVANIZED
HP	HIGH POINT
HT	HEIGHT
I.D.	INNER DIAMETER
LA	LANDSCAPE ARCHITECT
LG	LARGE
LF	LINEAR FEET
LFF	LINEAR FACE FEET
LP	LOW POINT
MAX.	MAXIMUM
M.E.	MATCH EXISTING ELEVATION
MED.	MEDIUM
MIN.	MINIMUM
NO. (or) #	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
O.D.	OUTER DIAMETER
OH	OVERHEAD
OHE	OVERHEAD ELECTRIC
P.O.B.	POINT OF BEGINNING
PL	PROPERTY LINE
PROP.	PROPOSED
PVMT.	PAVEMENT
QTY.	QUANTITY
R	RADIUS (or) RED
SF	SQUARE FEET
SFF	SQUARE FACE FEET
SM.	SMALL
SPECS.	SPECIFICATIONS
SPR.	SPREAD
TOB (or) TB	TOP OF BANK
TOC (or) TC	TOP OF CURB
TOW (or) TW	TOP OF WALL
TYP.	TYPICAL
VAR.	VARIETY (OR) VARRIES
W	WITH
W/O	WITHOUT

SCALE: X" = XX' X"



No.	Revision	Date

Project Name
**CITY OF ROME
ROME PARKING LOT**
ROME, NEW YORK

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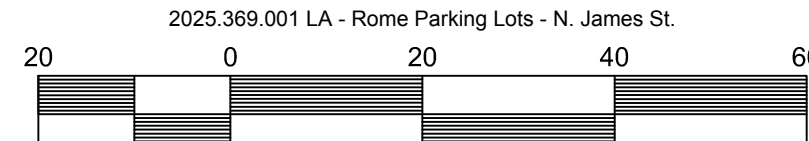
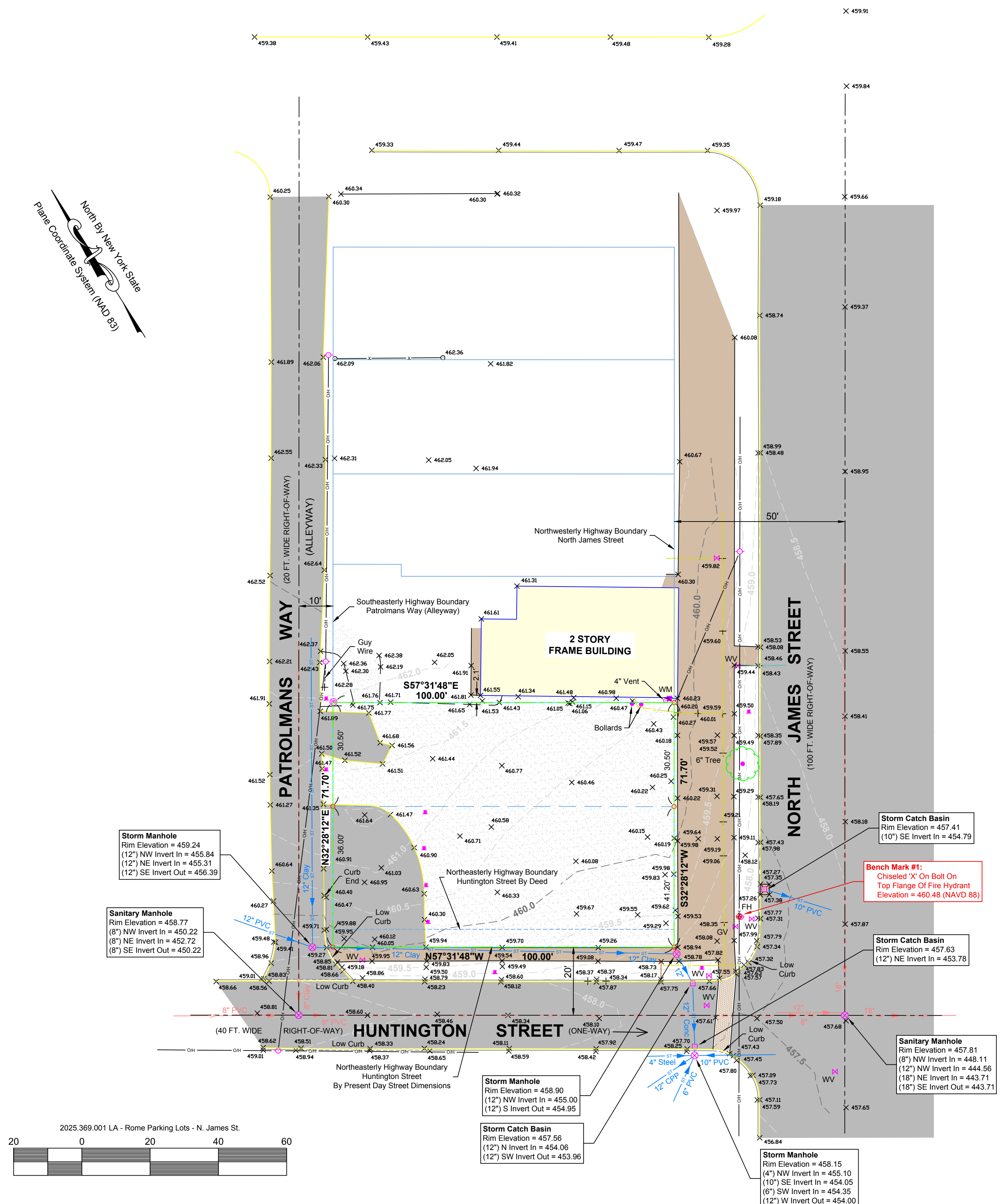
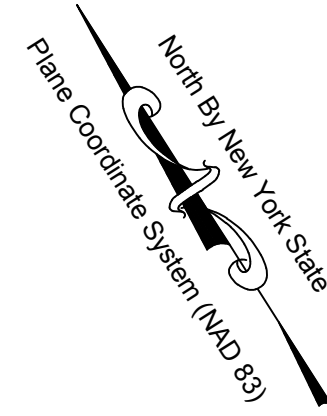
Seal	Phase	100% IFB	
	Project No.	2025.369.001	
	Date	2026.05.01	
Dsg By	MM	Ckd By	MH

Drawing Title
GENERAL NOTES

Drawing No.
G-001

CALL BEFORE YOU DIG:
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THAT YOU CALL BEFORE YOU DIG

CALL DIG SAFELY NEW YORK
AT 811 OR 1-800-962-7962



MISCELLANEOUS NOTES:

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- (MN 2) Elevations shown are based on field measurements. Elevations shown are tied into the North American Vertical Datum of 1988 (NAVD88). Contours are merely interpolation and should be considered as such only.

DEED REFERENCES:

- D.R. #1 Patricia O. Peterson, as Administrator, C.T.A. of the Estate of Edna M. Peterson to **City Of Rome** Administrator's Deed - Dated: March 16, 2021 Instrument No. 2021-007361
Being Tax Parcel No. 242.42-3-34
- D.R. #2 Daniel W. Ballister to **The City Of Rome, New York** Warranty Deed - Dated: April 3, 2025 Instrument No. 2025-004946
Being Tax Parcel No. 242.42-3-33

MAP REFERENCE:

- (M.R. #1) "Map of Survey Sub-Division Of Abrams Property" prepared by S.H. Zinglerine, Civil Engineer, dated December 15, 1949 and filed in the City of Rome Engineer's Department on January 3, 1950 as Map No. 574.

LEGEND:

- ⊗ Denotes Existing Iron Rod
- ⊗ Denotes Existing Valve
- ⊗ Denotes Existing Power Pole
- ⊗ Denotes Existing Fire Hydrant
- ⊗ Denotes Existing Manhole
- SS Denotes Storm Sewer Line (See MN 1)
- SA Denotes Sanitary Sewer Line (See MN 1)
- G Denotes Gas Line (See MN 1)
- OH Denotes Overhead Utility Line (See MN 1)
- — — Denotes Road Centerline
- ⊗ Denotes Existing Sign
- ⊗ Denotes Set Bench Mark
- ⊗ Denotes Existing Ground Elevation (See MN 2)
- 457.5 — — Denotes Existing Ground Contour (See MN 2)
- ⊗ Denotes Existing Bollard
- ⊗ Denotes Existing Water Meter
- ⊗ Denotes Existing Square Catch Basin
- ⊗ Denotes Existing Traffic Signal Box
- Denotes Existing Concrete Area

CALL BEFORE YOU DIG:



TOTAL ACREAGE THIS SURVEY IS "0.165± ACRE"
(7,170.0± Sq. Ft.)

Key Plan



No.	Revision	Date

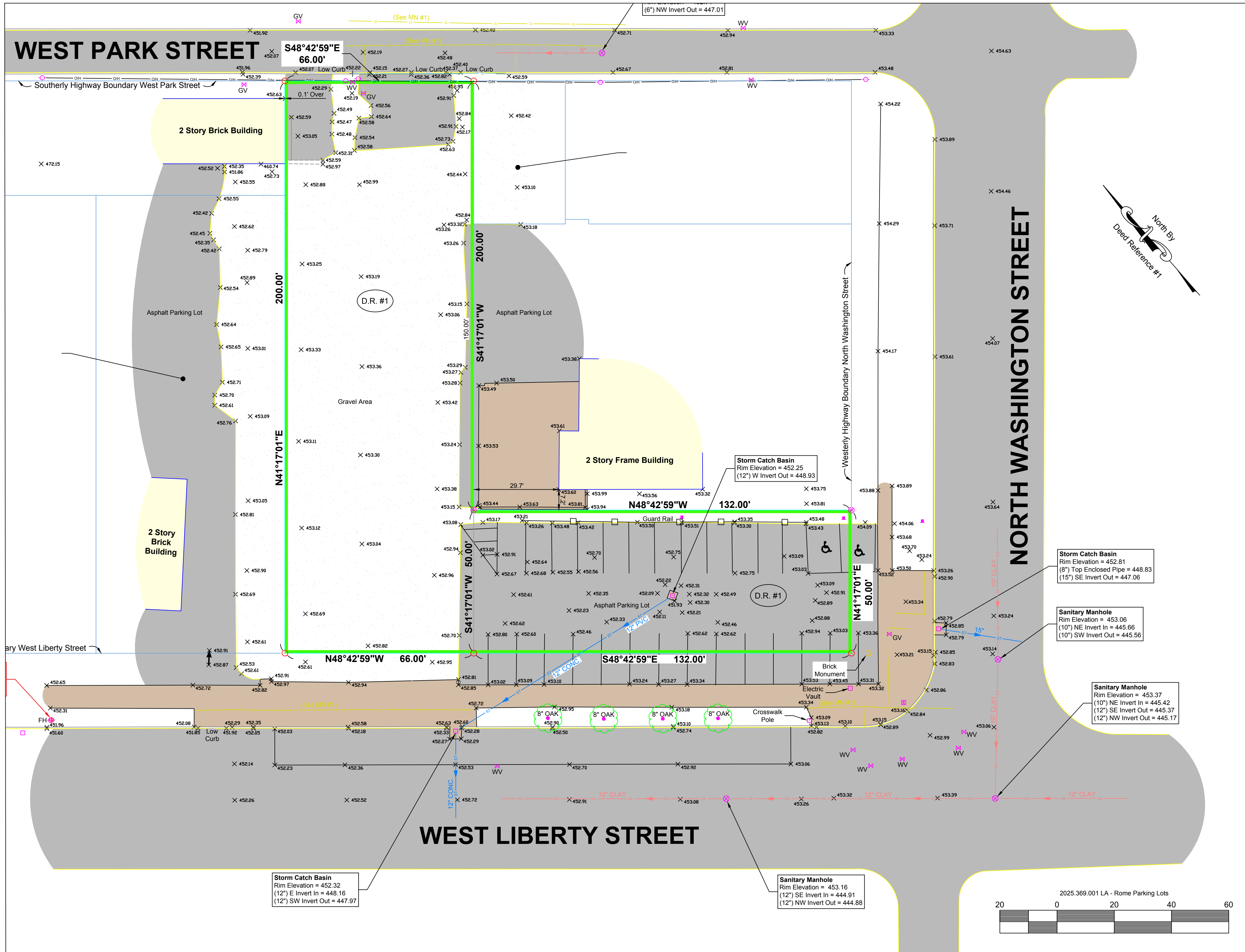
Project Name
**CITY OF ROME
ROME PARKING LOT**
ROME, NEW YORK

DELTA
ENGINEERS, ARCHITECTS, & SURVEYORS
860 Hooper Road
Endwell, New York 13760
Tel: 607.231.6600
Fax: 607.231.6650
Email: mail@delta-eas.com
www.delta-eas.com
CERTIFICATE OF AUTHORIZATION#: 019598

Seal	Phase 100% IFB
	Project No. 2025.369.001
	Date 2026.05.01
Dsg By MM	Ckd By MH

Drawing Title
**EXISTING CONDITIONS
SURVEY
JAMES STREET**

Drawing No.
L-100



LEGEND:

- Denotes Existing Iron Rod
- Denotes Existing Iron Pipe
- Denotes Set Iron Rod
- Denotes Set Metal Survey Marker
- Denotes Existing Railroad Spike
- ▲ Denotes Existing Concrete Monument
- ⊕ Denotes Existing Valve
- ⊕ Denotes Existing Power Pole
- ⊕ Denotes Existing Light Pole
- ⊕ Denotes Existing Fire Hydrant
- ⊕ Denotes Existing Manhole
- FO — Denotes Fiber Optic Line (See MN 1)
- SW — Denotes Steam Line (See MN 1)
- W — Denotes Water Line (See MN 1)
- SS — Denotes Storm Sewer Line (See MN 1)
- SS — Denotes Sanitary Sewer Line (See MN 1)
- G — Denotes Gas Line (See MN 1)
- U — Denotes Underground Electric Line (See MN 1)
- C — Denotes Underground Communication Line (See MN 1)
- TEL — Denotes Underground Telephone Line (See MN 1)
- OH — Denotes Overhead Utility Line (See MN 1)
- Denotes Existing Sign
- Denotes Building Height Location
- FFE Denotes Finish Floor Elevation
- ⊕ Denotes Set Bench Mark
- × Denotes Existing Ground Elevation (See MN 2)
- 795.24 — Denotes Existing Ground Contour (See MN 2)
- Denotes Existing Bollard
- Denotes Existing Ground Light
- Denotes Existing Air Conditioning Unit
- Denotes Existing Electric Meter
- Denotes Existing Gas Meter
- Denotes Existing Sewer Cleanout
- Denotes Existing Telephone Riser
- Denotes Existing Round Catch Basin
- Denotes Existing Square Catch Basin
- ⊕ Denotes Existing Tower
- ⊕ Denotes Existing Traffic Signal Box
- Denotes Existing Landscaping Area
- Denotes Existing Concrete Area
- Rec. Denotes Record
- Calc. Denotes Calculated
- Denotes Area Of Flood Zone 'AE' By (FEMA) Flood Map Overlay; Flood Elevations Determined (See Flood Note)
- Denotes Area Of Flood Zone 'X' By (FEMA) Flood Map Overlay; Area Determined To Be Outside The 0.2% Annual Chance Floodplain; (See Flood Note)
- ⊕ Denotes Location And Direction Of Photographs Taken On February 1, 2015

Key Plan



No.	Revision	Date

Project Name
CITY OF ROME
ROME PARKING LOT
 ROME, NEW YORK

DELTA
 ENGINEERS, ARCHITECTS, & SURVEYORS
 860 Hooper Road
 Endwell, New York 13760
 Tel: 607.231.6600
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 Email: mail@delta-eas.com
 www.delta-eas.com
 CERTIFICATE OF AUTHORIZATION#: 019598

Seal:

Phase: 100% IFB
 Project No.: 2025.369.001
 Date: 2026.05.01
 Dsg By: MM Ckd By: MH

Drawing Title
EXISTING CONDITIONS
SURVEY
LIBERTY STREET

Drawing No.
L-100

MISCELLANEOUS NOTES:

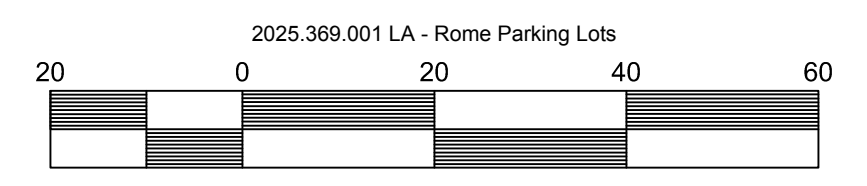
(MN 1) Underground facilities, structures and utilities have been placed on this drawing from field locations, where visible or from recorded drawings provided to the undersigned. Therefore, locations should be considered approximate only. There may be other facilities or utilities, the existence of which are not known; for this reason, UFPO shall be contacted a minimum of 48 hours prior to any underground excavation.

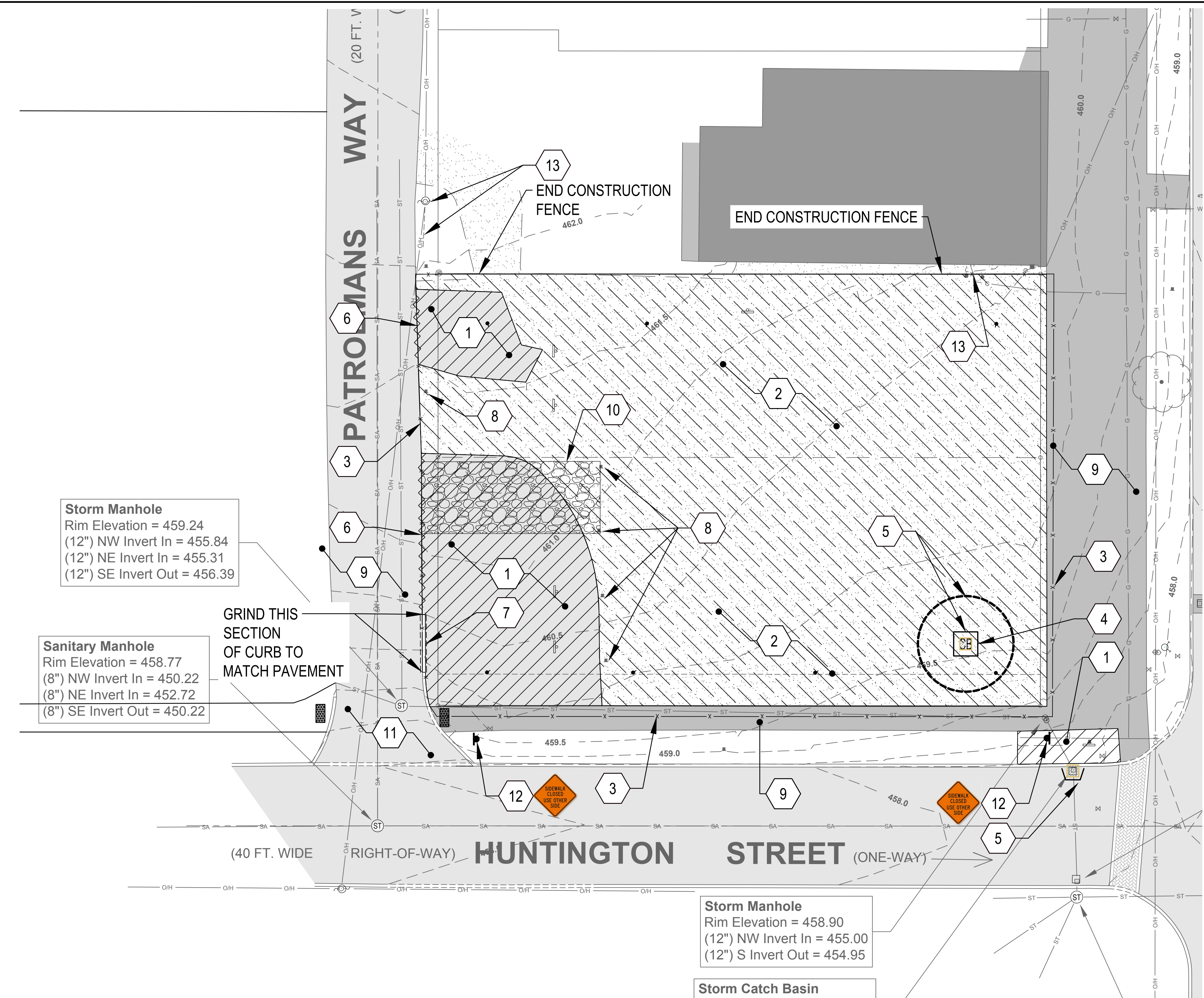
(MN 2) Elevations shown are based on field measurements. Contours are merely interpolation and should be considered as such only.

CALL BEFORE YOU DIG:
 NYS CODE RULE 753
 REQUIRES THAT YOU CALL
 BEFORE YOU DIG
Know what's below.
Call 811 before you dig.
 CALL DIG SAFELY NEW
 YORK AT 811 OR
 1-800-962-7962

DEED REFERENCE:
 (D.R. #1) Centro NP LLC
 to
Wachs Rome Development LLC
 Bargain And Sale Deed - Dated: June 26, 2008
 Instrument No. 2008-011111
 Being Tax Parcel No. 224.009-2-19

MAP REFERENCE:
 (M.R. #1) "Map Showing Lands Of Super Intermediated, LLC
 To Be Conveyed To Wachs Rome Development, LLC"
 City Of Rome, Oneida County, State Of New York
 By James P. Bliss, L.S. dated June 25, 1993 and filed in
 the Oneida County Clerk's Office on June 25, 1993
 as Map No. 3224.



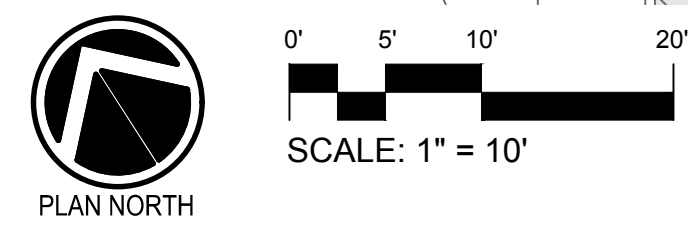


EXISTING CONDITIONS LEGEND:	
IRON ROD	⊗
WATER VALVE	WV
GAS VALVE	GV
POWER POLE	○
FIRE HYDRANT	PH
MANHOLE	⊗
TRAFFIC SIGNAL BOX	⊗
WATER MAIN	WM
SQUARE CATCH BASIN	□
BOLLARD	•
TRAFFIC SIGN	▲
SET BENCH MARK	⊕
STORM SEWER LINE (SEE MN 1)	—ST—
SANITARY SEWER LINE (SEE MN 1)	—SA—
GAS LINE (SEE MN 1)	—G—
OVERHEAD POWER POLE LINE (SEE MN 1)	—OH—
GROUND ELEVATION (SEE MN 2)	515.60
GROUND CONTOUR (SEE MN 2)	515
BUILDING AREA	■
CONCRETE AREA	■
PAVEMENT AREA	■
TREE	☼

SITE REMOVALS AND EROSION AND SEDIMENT CONTROL LEGEND	
ASPHALT PAVEMENT	▨
CONCRETE	▩
EXCAVATE	▧
STABILIZED CONSTRUCTION ENTRANCE	▦
SHIM CURB	▬
SAWCUTTING MISCELLANEOUS	▮
INLET PROTECTION	▯

#	KEY NOTES
1	REMOVE EXISTING PAVEMENT.
2	EXCAVATE TO SUBGRADE ELEVATION AND PITCH TO SEDIMENT BASIN.
3	PROVIDE CHAIN LINK CONSTRUCTION FENCING ALONG PERIMETER OF SITE. INSTALL FENCE 2' ONTO EXISTING SIDEWALK. SEE DETAIL 7L-110.
4	INSTALL CATCH BASIN. SEE DETAIL 2L-502 WITH INLET PROTECTION. DETAIL 4L-110.
5	INSTALL DROP INLET PROTECTION AS TEMPORARY SEDIMENT TRAP. SEE DETAILS 4L-110 AND 6L-110.
6	SAWCUT PAVEMENT/CONCRETE.
7	GRIND SECTION OF EXISTING CONCRETE CURB FLUSH WITH PAVEMENTS.
8	REMOVE SIGNS AND SALVAGE FOR REUSE.
9	PROTECT EXISTING SIDEWALKS AND PAVEMENTS TO REMAIN.
10	PROVIDE STABILIZED CONSTRUCTION ENTRANCE. SEE DETAIL 1L-110.
11	MAINTAIN VEHICLE ACCESS TO HUNTINGTON ST DURING CONSTRUCTION.
12	ROAD/SIDEWALK CLOSED WORK ZONE TRAFFIC CONTROL SIGN.
13	PROTECT UTILITY POLE, GUY WIRE, & GAS SERVICE AT BUILDING

1 DEMOLITION, STAGING, EROSION AND SEDIMENT CONTROL PLAN
 L-103 SCALE: 1" = 10'



SCALE: X" = XX'X"



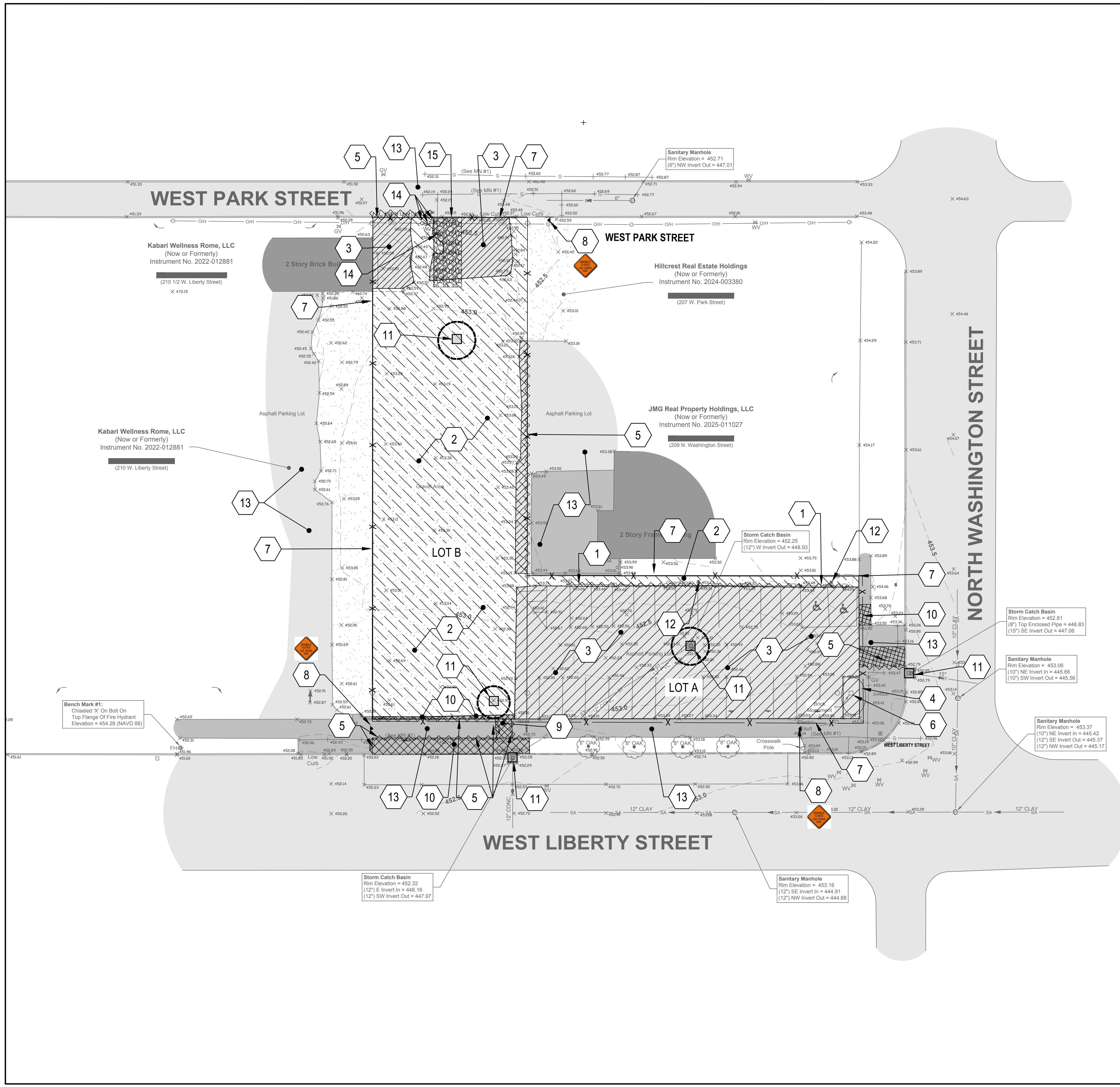
City of Rome
Rome Parking Lot
 ROME, NEW YORK

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 CERTIFICATE OF AUTHORIZATION#: 019598

Seal: Phase: 100% IFB
 Project No.: 2025.369.001
 Date: 2026.05.01
 Dsg By: MM Ckd By: MH

Drawing Title:
DEMO & E&SC PLAN
JAMES STREET

Drawing No.:
L-101



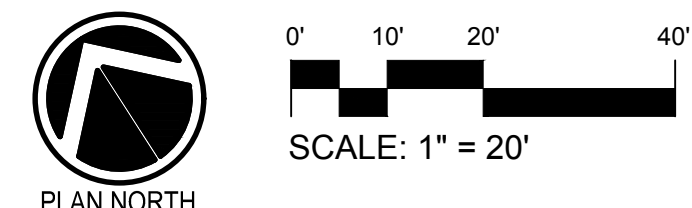
EXISTING CONDITIONS LEGEND:

IRON ROD	⊗
WATER VALVE	WV
GAS VALVE	GV
POWER POLE	⊙
FIRE HYDRANT	FH
MANHOLE	⊕
TRAFFIC SIGNAL BOX	⊞
WATER MAIN	WM
SQUARE CATCH BASIN	□
BOLLARD	•
TRAFFIC SIGN	▲
SET BENCH MARK	⊕
STORM SEWER LINE (SEE MN 1)	—ST—
SANITARY SEWER LINE (SEE MN 1)	—SA—
GAS LINE (SEE MN 1)	—G—
OVERHEAD POWER POLE LINE (SEE MN 1)	—OH—
GROUND ELEVATION (SEE MN 2)	515.60 X
GROUND CONTOUR (SEE MN 2)	—515—
BUILDING AREA	[Hatched Pattern]
CONCRETE AREA	[Cross-hatched Pattern]
PAVEMENT AREA	[Diagonal Line Pattern]
TREE	[Tree Symbol]

SITE REMOVALS AND EROSION AND SEDIMENT CONTROL LEGEND

ASPHALT PAVEMENT	[Diagonal Line Pattern]
CONCRETE	[Cross-hatched Pattern]
EXCAVATE	[Hatched Pattern]
CONCRETE / GRANITE CURB	[Dashed Line Pattern]
SAWCUTTING MISCELLANEOUS	[Wavy Line Pattern]
INLET PROTECTION	[Square with Diagonal Lines]

- KEY NOTES**
- 1 REMOVE EXISTING STEEL TUBE BARRIER AT EDGE OF LOT INCLUDING FOOTING.
 - 2 REMOVE 8" OF GRANULAR MATERIAL & STOCKPILE FOR USE AS BASE MATERIAL IN LOT "A".
 - 3 REMOVE ASPHALT, EXCAVATE GRANULAR MATERIAL & STOCKPILE FOR USE AS BASE MATERIAL FOR ADJACENT LOT.
 - 4 REMOVE EVERGREEN SHRUB & ROOTS.
 - 5 SAWCUT PAVEMENT/CONCRETE. DISPOSE OFF SITE.
 - 6 PROTECT HISTORIC MONUMENT.
 - 7 PROVIDE CHAIN LINK CONSTRUCTION FENCING ALONG PERIMETER OF SITE. SEE DETAIL 7L-110.
 - 8 ROAD/SIDEWALK CLOSED WORK ZONE TRAFFIC CONTROL SIGN.
 - 9 REMOVE SIDEWALK FOR STORM WATER PIPE TO CATCH BASIN, EXCAVATE 1'.
 - 10 REMOVE CONCRETE.
 - 11 INSTALL DROP INLET PROTECTION AS TEMPORARY SEDIMENT TRAP. SEE DETAILS 4L-110 AND 6L-110.
 - 12 REMOVE SIGNS AND SALVAGE FOR REUSE.
 - 13 PROTECT EXISTING SIDEWALKS AND PAVEMENTS TO REMAIN.
 - 14 PROTECT EXISTING UTILITY POLE, VAULTS AND VALVES.
 - 15 PROVIDE STABILIZED CONSTRUCTION ENTRANCE. SEE DETAIL 1L-110.



Key Plan



No. Revision Date

Project Name
**CITY OF ROME
ROME PARKING LOT**

ROME, NEW YORK

DELTA
ENGINEERS, ARCHITECTS, & SURVEYORS

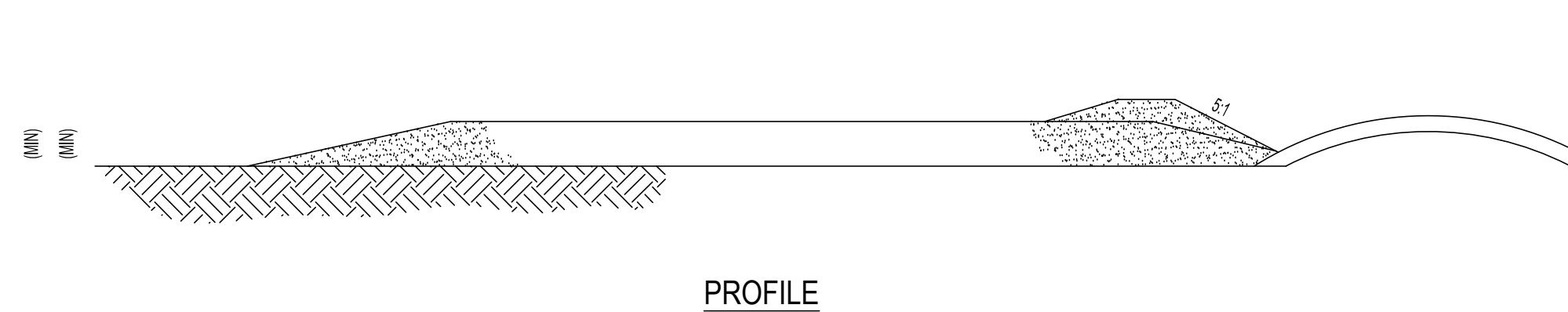
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CERTIFICATE OF AUTHORIZATION#: 019598

Seal: [Professional Seal of Michael Haas, Registered Landscape Architect, State of New York, No. 001047-1, Expires 03/31/2027]

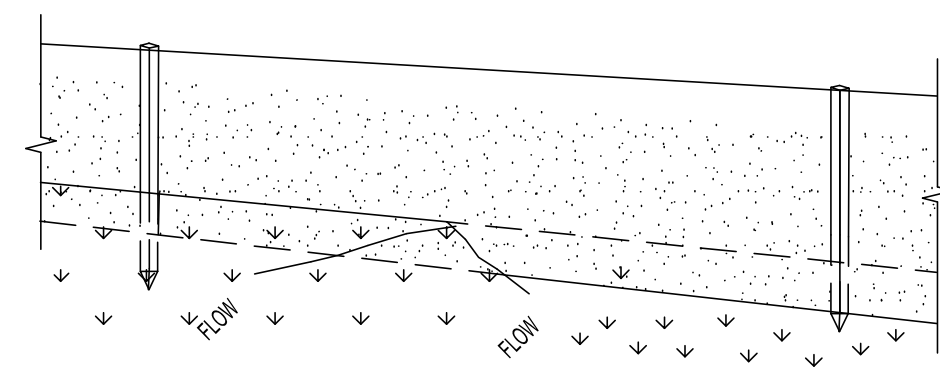
Phase: 100% IFB
Project No.: 2025.369.001
Date: 2026.05.01
Dsg By: MM, Ckd By: MH

Drawing Title
**DEMO & E&SC PLAN
LIBERTY STREET**

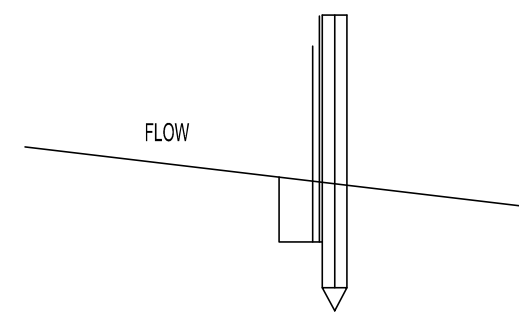
Drawing No.
L-102



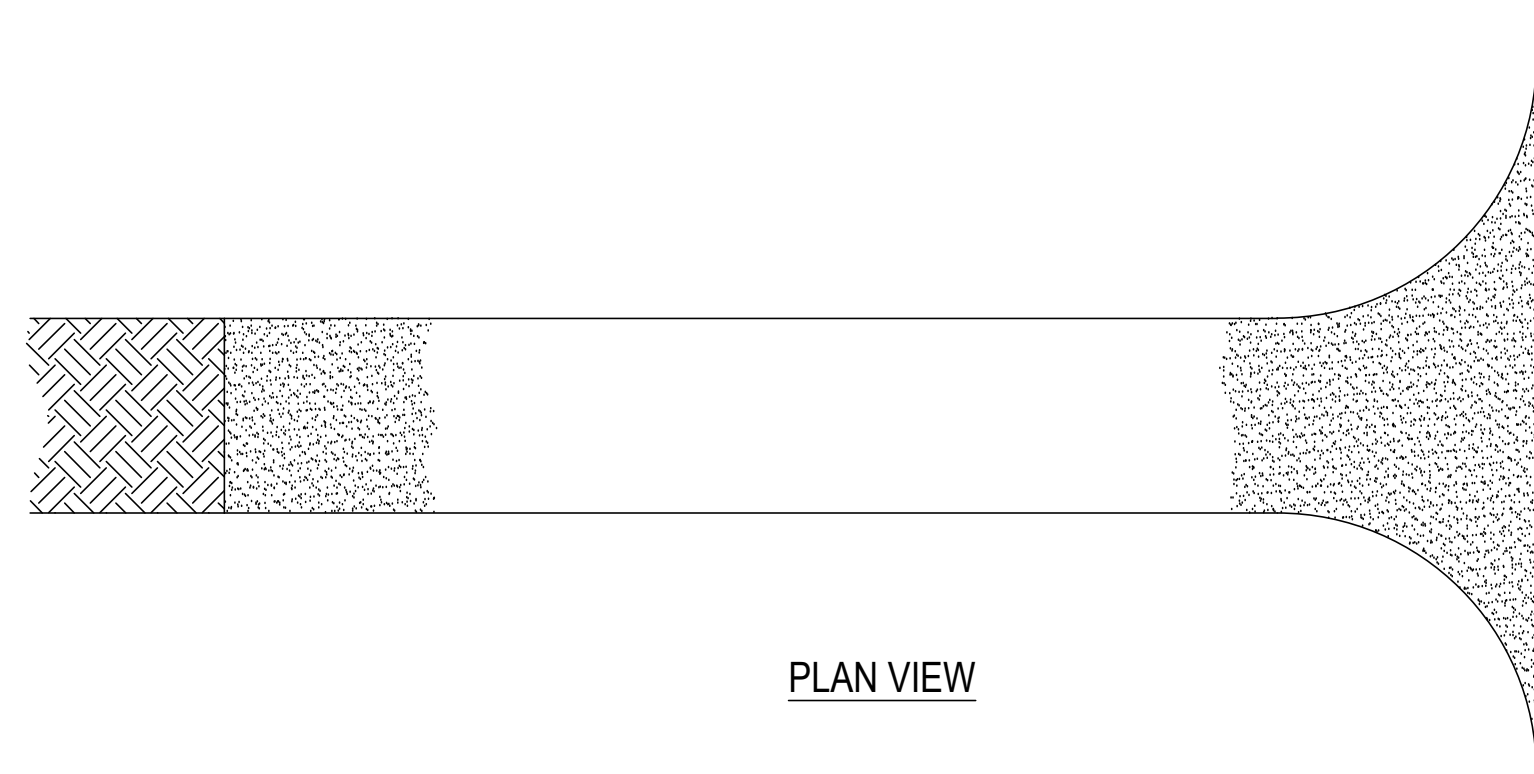
PROFILE



PERSPECTIVE VIEW



SECTION VIEW



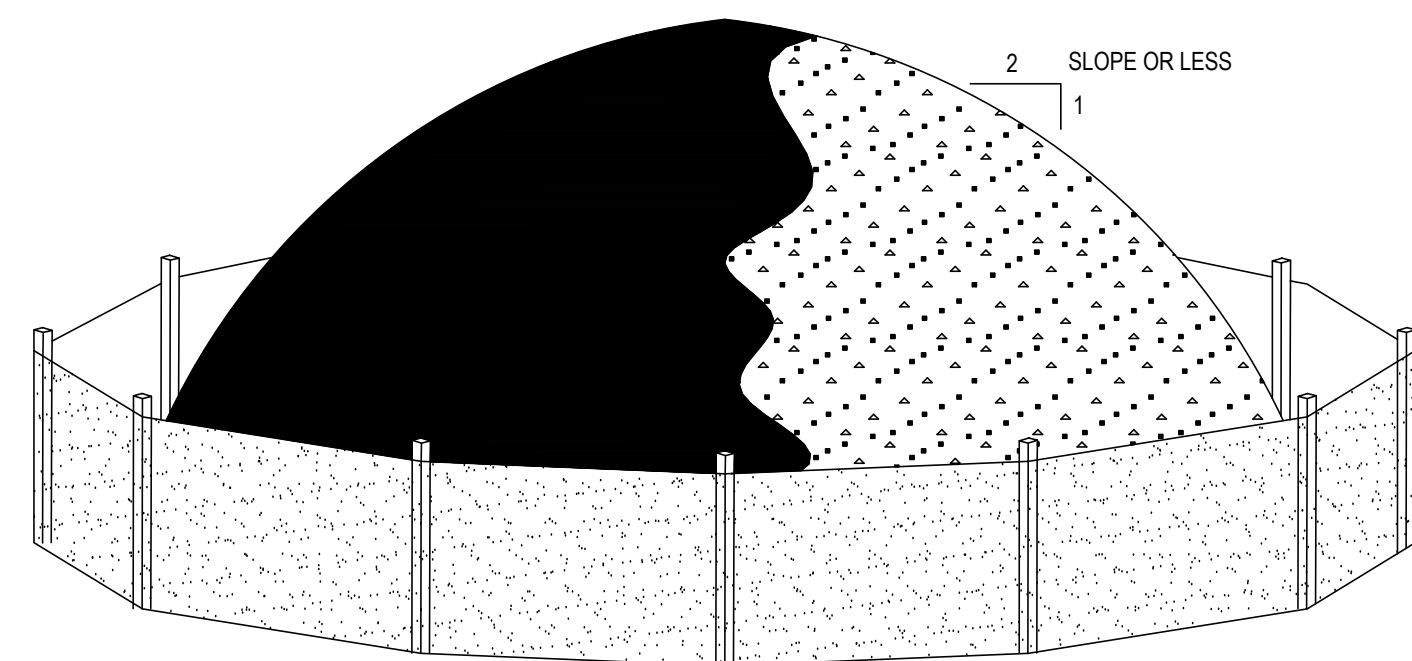
PLAN VIEW

CONSTRUCTION SPECIFICATIONS:

1. STONE SIZE: USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS: NOT LESS THAN SIX (6) INCHES.
4. TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH: WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER: ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

1 STABILIZED CONSTRUCTION ENTRANCE DETAIL

L-110 SCALE: NONE



INSTALLATION NOTES:

1. SELECT AN AREA THAT IS DRY AND STABLE.
2. COVER AREA WITH 10 MIL POLY AND STOCKPILE ON TOP.
3. COVER STOCKPILE WITH 10 MIL POLY AND SECURE.
4. PROVIDE SILT FENCE AROUND PERIMETER OF STOCKPILE AT THE TOE OF SLOPE.

5 SOIL STOCKPILE AREA DETAIL

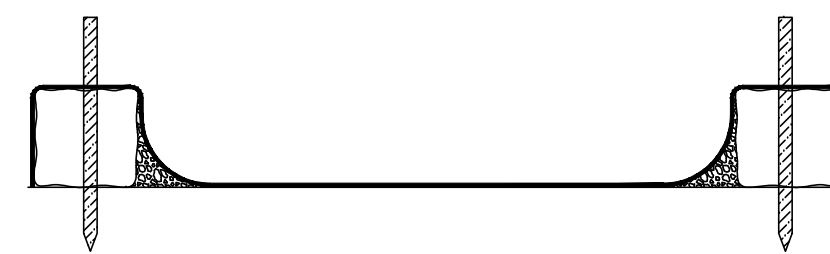
L-110 SCALE: NONE

CONSTRUCTION SPECIFICATIONS:

1. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
3. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

2 SILT FENCE DETAIL

L-110 SCALE: NONE

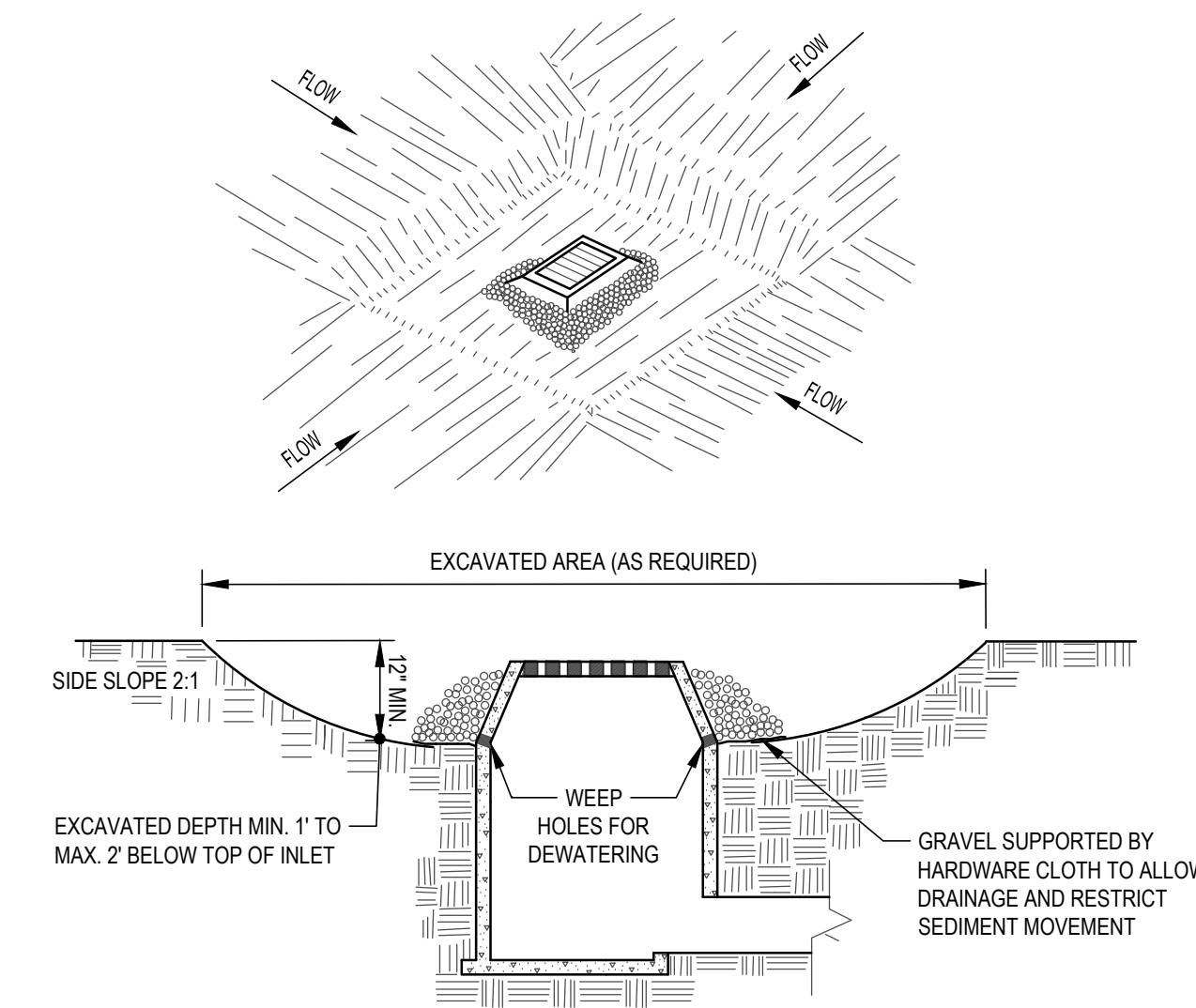
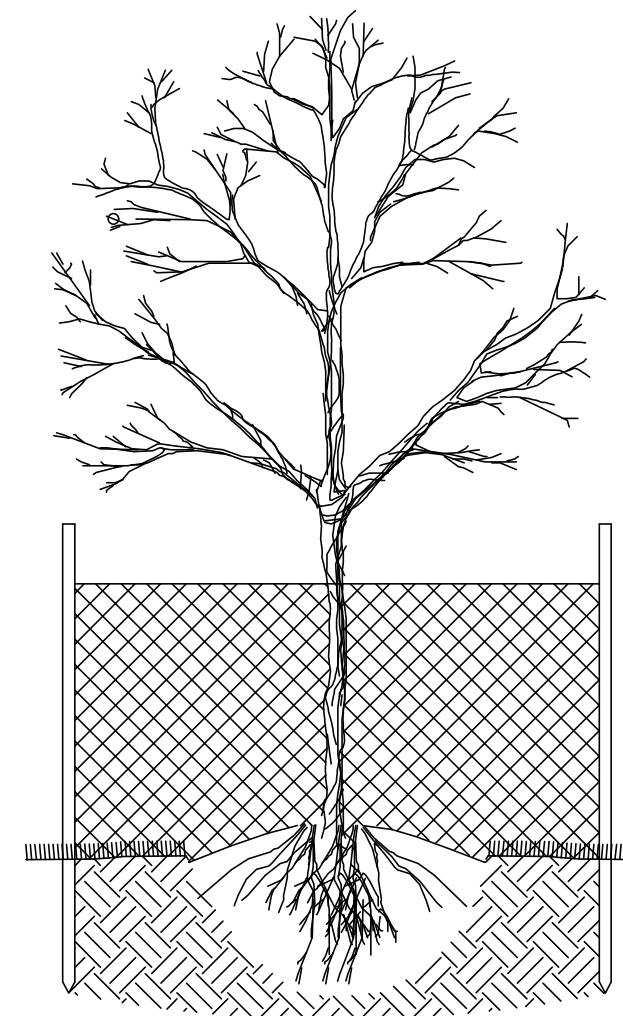


NOTES:

1. THIS DETAIL SHALL BE USED FOR EVERY TREE INTENDED TO REMAIN WITHIN THE PROJECT LIMITS. PROJECT LIMITS ARE SHOWN ON SHEET L-101 & L-102.
2. CONTRACTOR TO MAINTAIN TREE PROTECTIVE BARRIER THROUGH THE DURATION OF THE PROJECT.

3 TREE PROTECTION FENCE DETAIL

L-110 SCALE: NONE

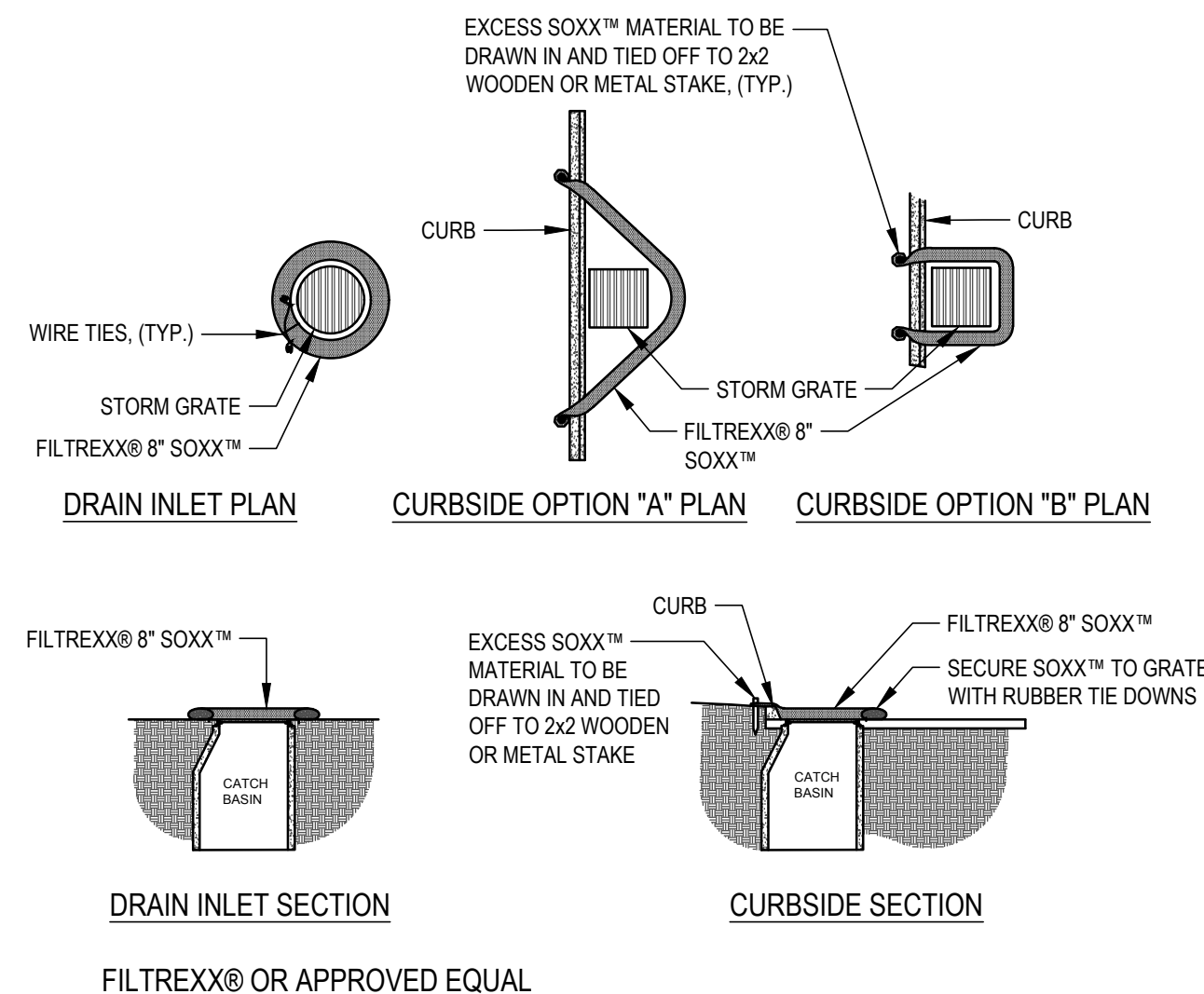


CONSTRUCTION SPECIFICATIONS:

1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN TO FINAL GRADE, COMPACT, AND PROVIDE FINAL STABILIZATION.

4 EXCAVATED DROP INLET PROTECTION DETAIL

L-110 SCALE: NONE

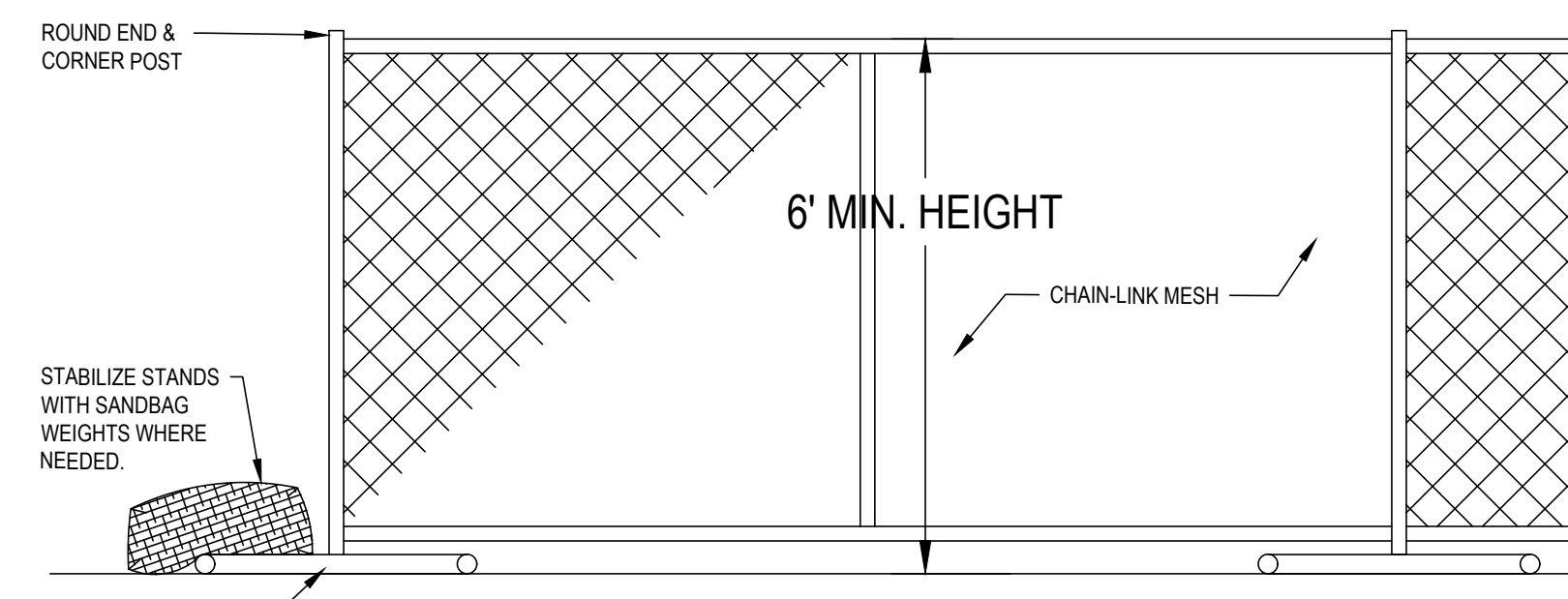


NOTES:

1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
2. FILTER MEDIA™ FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

6 FILTER SOCK INLET PROTECTION DETAIL

L-110 SCALE: NONE



CONSTRUCTION FENCE NOTES:

1. UTILIZE EXISTING PHASE 1 FENCE AND MINIMIZE FOOT PRINT AND DISTURBANCE. ADJUST IN COORDINATION WITH LANDSCAPE ARCHITECT.
2. WHERE FENCE STANDS ENCR OACH ON PUBLIC SIDEWALKS OR STREETS THEY SHOULD BE BRIGHTLY COLORED AND/OR MARKED WITH TRAFFIC CONES.
3. CHAIN-LINK MESH TO MEET ASTM A392-06 (STANDARD SPECIFICATION FOR ZINC-COATED STEEL CHAINLINK FENCE FABRIC) AND BE FASTENED SECURELY TO FRAME & POSTS.

7 CONSTRUCTION FENCE DETAIL

L-110 SCALE: NONE

Key Plan



SCALE: X" = XX'X"

No.	Revision	Date

Project Name

**CITY OF ROME
ROME PARKING LOT**

ROME, NEW YORK

DELTA
ENGINEERS, ARCHITECTS, & SURVEYORS

860 Hooper Road
Endwell, New York 13760
Tel: 607.231.6600
Fax: 607.231.6650
Email: mail@delta-eas.com
www.delta-eas.com

CERTIFICATE OF AUTHORIZATION#: 019598

Seal	Phase	100% IFB	
	Project No.	2025.369.001	
	Date	2026.05.01	
Dsg By	MM	Ckd By	MH

Drawing Title

EROSION AND SEDIMENT CONTROL DETAILS

Drawing No.

L-110



STAKEOUT INFORMATION		
POINT	NORTHING (Y)	EASTING (X)
A	1173020.8458	1121031.8164
B	1173071.9838	1120951.5745
C	1173121.4239	1120981.8704
D	1173069.7397	1121062.9744
E	1173046.8656	1121056.5631
F	1173035.3929	1121049.2520
G	1173070.4610	1121070.3784

1 LAYOUT PLAN
L-120 SCALE: 1" = 10'

AMENITIES SCHEDULE						
AMENITIES	QTY	UNIT	SIZE	MANUFACTURER	MODEL	COLOR
BRICK PIERS	6	EA	H32"	BELDEN	"MODULAR" SIZE	REGAL BLEND SMOOTH
BOLLARDS	19	EA	H32"	BOLLARDS USA	100 GTF PROMENADE	BLACK
CHAIN	155	LF	H32"	BOLLARDS USA	N/A	BLACK

* BOLLARDS USA: 502-554-1178
<https://www.bollardsusa.com/products/100-gtf/>
 * BRICK SUPPLIED BY PARAGON SUPPLY: 315-475-5115
<https://www.paragonsupply.com/our-products/masonry-stone-brick/>



LAYOUT PLAN KEY NOTES	
1	PROVIDE ASPHALT PAVEMENT. SEE DETAIL 1/L-500
2	PROVIDE RAISED GRANITE CURB. SEE DETAIL 4/L-500
3	PROVIDE 4" ASPHALT PAVEMENT STRIPING - WHITE. TYP.
4	CLEAN & SEAL PAVEMENT JOINT. SEE DETAIL 2/L-500
5	PRECAST CATCH BASIN WITH FRAME GRATE. SEE DETAIL 2/L-502
6	16"x24" BRICK FACED PIER. TYP. SEE DETAIL 6/L-500
7	HELICAL PILE BOLLARD AND DOUBLE CHAIN. TYP. SEE DETAIL 7/L-500
8	PLACE SALVAGED SIGN IN CONCRETE BOLLARD CENTERED ON PARKING SPACE. TYP. SEE DETAIL 5/L-500
9	DECORATIVE LIGHT POLE & BASE. SEE DETAIL 4/L-502
10	PROVIDE TOPSOIL IN PLANT BED
11	PROVIDE LAWN REPAIR. SEE DETAIL 3/L-503
12	PROVIDE YELLOW ASPHALT PAINT DIAGONAL STRIPING
13	REINSTALL 2 HOUR PARKING SIGN
14	REINSTALL STREET SIGN AND ONE WAY SIGN

Key Plan



Project Name
CITY OF ROME
ROME PARKING LOT
 ROME, NEW YORK

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Seal:

Phase: 100% IFB
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 Dsg By: MM Ckd By: MH

Drawing Title
LAYOUT PLAN
JAMES STREET

Drawing No.
L-120

WEST PARK STREET

NORTH WASHINGTON STREET

AMENITIES SCHEDULE						
AMENITIES	QTY	UNIT	SIZE	MANUFACTURER	MODEL	COLOR
BRICK PIERS	9	EA	H32"	BELDEN	"MODULAR" SIZE	REGAL BLEND SMOOTH
BOLLARDS	7	EA	H32"	BOLLARDS USA	100 GTF PROMENADE	BLACK
CHAIN	32	LF	H32"	BOLLARDS USA	N/A	BLACK

* BOLLARDS USA: 502-554-1178
<https://www.bollardsusa.com/products/100-gtf/>
 * BRICK SUPPLIED BY PARAGON SUPPLY: 315-475-5115
<https://www.paragonsupply.com/our-products/masonry-stone-brick/>

Storm Catch Basin
 Rim Elevation = 452.25
 (12") W Invert Out = 448.93

STAKEOUT INFORMATION		
POINT	NORTHING (Y)	EASTING (X)
A	1172872.6801	1119967.1643
B	1172799.6041	1120082.1187
C	1172756.1931	1120046.0662
D	1172820.7717	1119944.0924
E	1172832.6706	1119927.4403
F	1172864.2677	1119906.5511
G	1172863.4161	1119890.2395
H	1172951.6967	1119946.3209
I	1172968.9553	1119957.2846
J	1173021.7018	1119990.7978
K	1173037.4722	1119993.6760
L	1173002.0559	1120049.3195
M	1172989.8470	1120040.9547
N	1172937.5187	1120007.7561
O	1172920.2618	1119996.7987

SITE PLAN LEGEND:	
DETECTABLE WARNING PLATE	
LEECHING BASIN	
CATCH BASIN	
BRICK PIER	
LIGHT POLE	
SIGN	
BOLLARD & CHAIN	

#	LAYOUT NOTES
1	PROVIDE ASPHALT PAVEMENT. SEE DETAIL 1L-500
2	PROVIDE RAISED GRANITE CURB. SEE DETAIL 4L-500
3	PROVIDE 4" ASPHALT PAVEMENT STRIPING. WHITE - 2 COATS MIN. TYP.
4	INSTALL 6" CONCRETE SIDEWALK. SEE DETAIL 3L-500. MATCH EXISTING GRADES.
5	PRECAST CATCH BASIN WITH PEDESTRIAN SAFE GRATE. SEE DETAIL 2L-502
6	16"x24" BRICK FACED PIER. SET TIGHT TO SIDEWALK. TYP. SEE DETAIL 6L-500
7	HELICAL DRIVE BOLLARD AND DOUBLE CHAIN. TYP. SEE DETAIL 7L-500
8	5"x16" BRICK FACED PIER. TYP. SEE DETAIL 6L-500
9	PRECAST LEECHING BASIN WITH PEDESTRIAN SAFE GRATE. SEE DETAIL 5L-502
10	INSTALL LIGHT POLE AND BASE. CENTERED IN BED. SEE DETAIL 4L-502
11	ADA PARKING STENCIL TYP. SEE DETAIL 9L-500
12	CROSSWALK PAINT TYP. SEE DETAIL 8L-500
13	LANE USE ARROW TYP. SEE DETAIL 8L-500
14	ADA PARKING SIGN TYP. SEE DETAIL 5bL-500
15	REPAIR EXISTING CATCH BASIN AND ADD A 2' OFFSET CONCRETE APRON
16	PROVIDE TOPSOIL IN PLANT BED
17	CLEAN AND SEAL PAVEMENT JOINT. SEE DETAIL 2L-500
18	INSTALL DETECTABLE WARNING PLATE. SEE DETAIL 10L-500



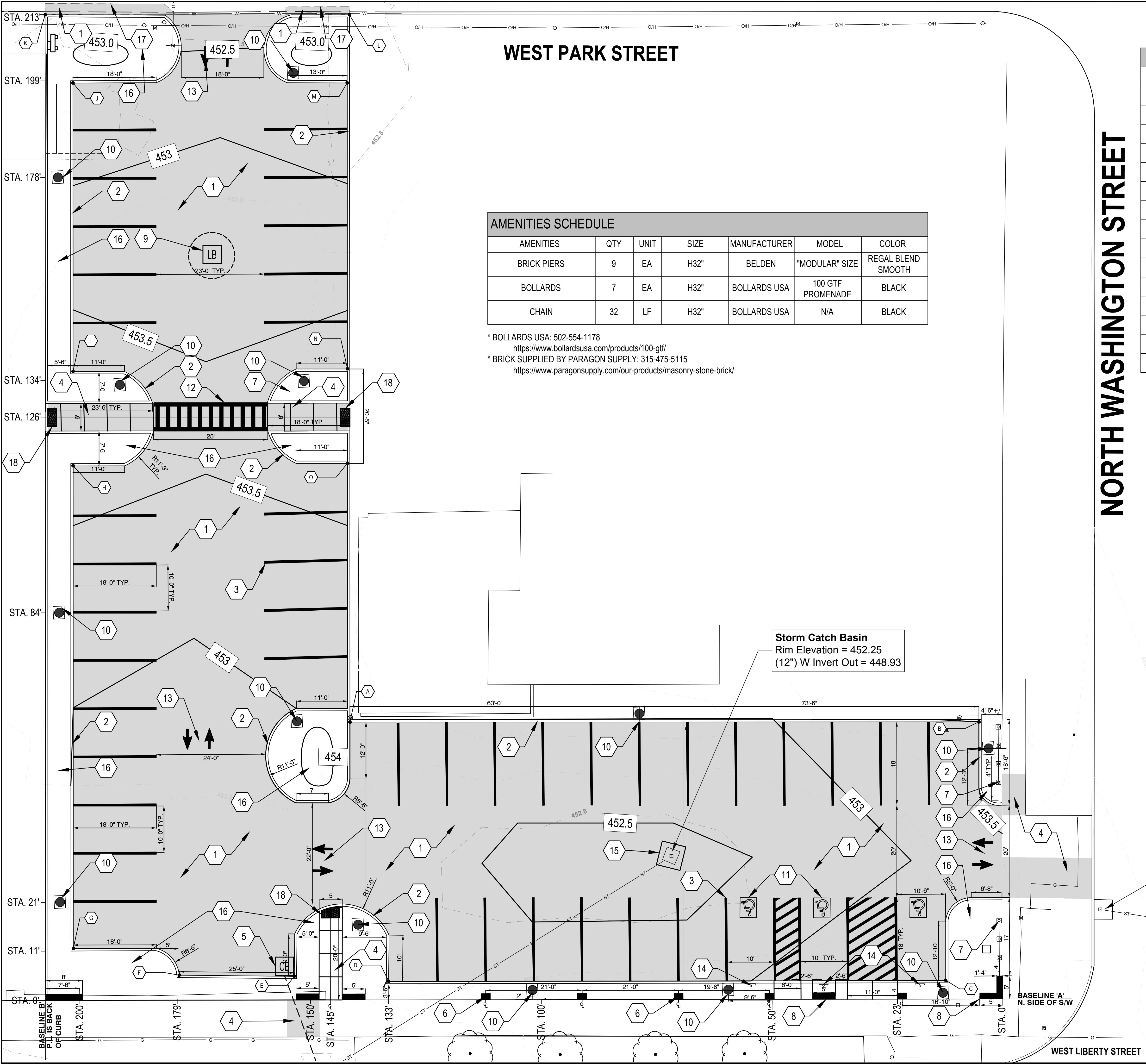
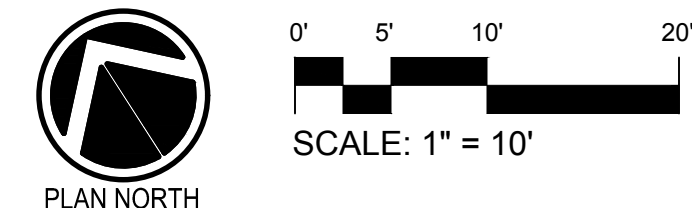
Project Name
CITY OF ROME
ROME PARKING LOT
 ROME, NEW YORK

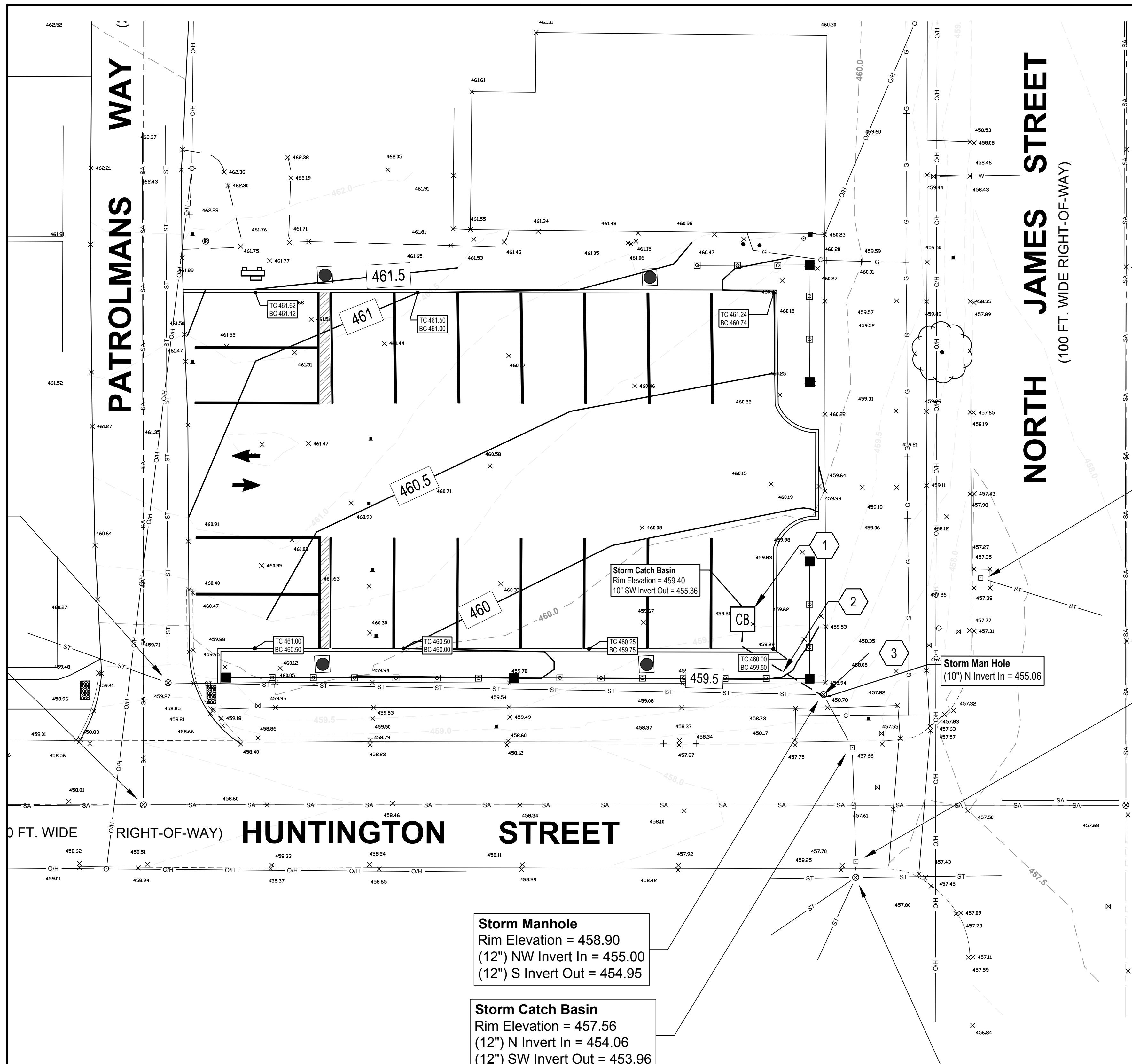


Seal: MICHAEL HAAS, LICENSED LANDSCAPE ARCHITECT, STATE OF NEW YORK, 001047-1, REGISTRATION EXPIRES 03/31/2027
 Phase: 100% IFB
 Project No.: 2025.369.001
 Date: 2026.05.01
 Dsg By: MM, Ckd By: MH

Drawing Title
LAYOUT PLAN
LIBERTY STREET

Drawing No.
L-121





1 GRADING PLAN
L-130 SCALE: 1" = 10'

Storm Manhole
Rim Elevation = 458.90
(12" NW Invert In = 455.00
(12" S Invert Out = 454.95

Storm Catch Basin
Rim Elevation = 457.56
(12" N Invert In = 454.06
(12" SW Invert Out = 453.96



#	GRADING PLAN KEY NOTES
1	PROVIDE 24"x24"x4" CATCH BASIN
2	PROVIDE 10" HDPE STORM SEWER PIPE, +/- 17' AT 1.5% SLOPE
3	CONNECT TO EXISTING STORM STRUCTURE

Key Plan



No.	Revision	Date

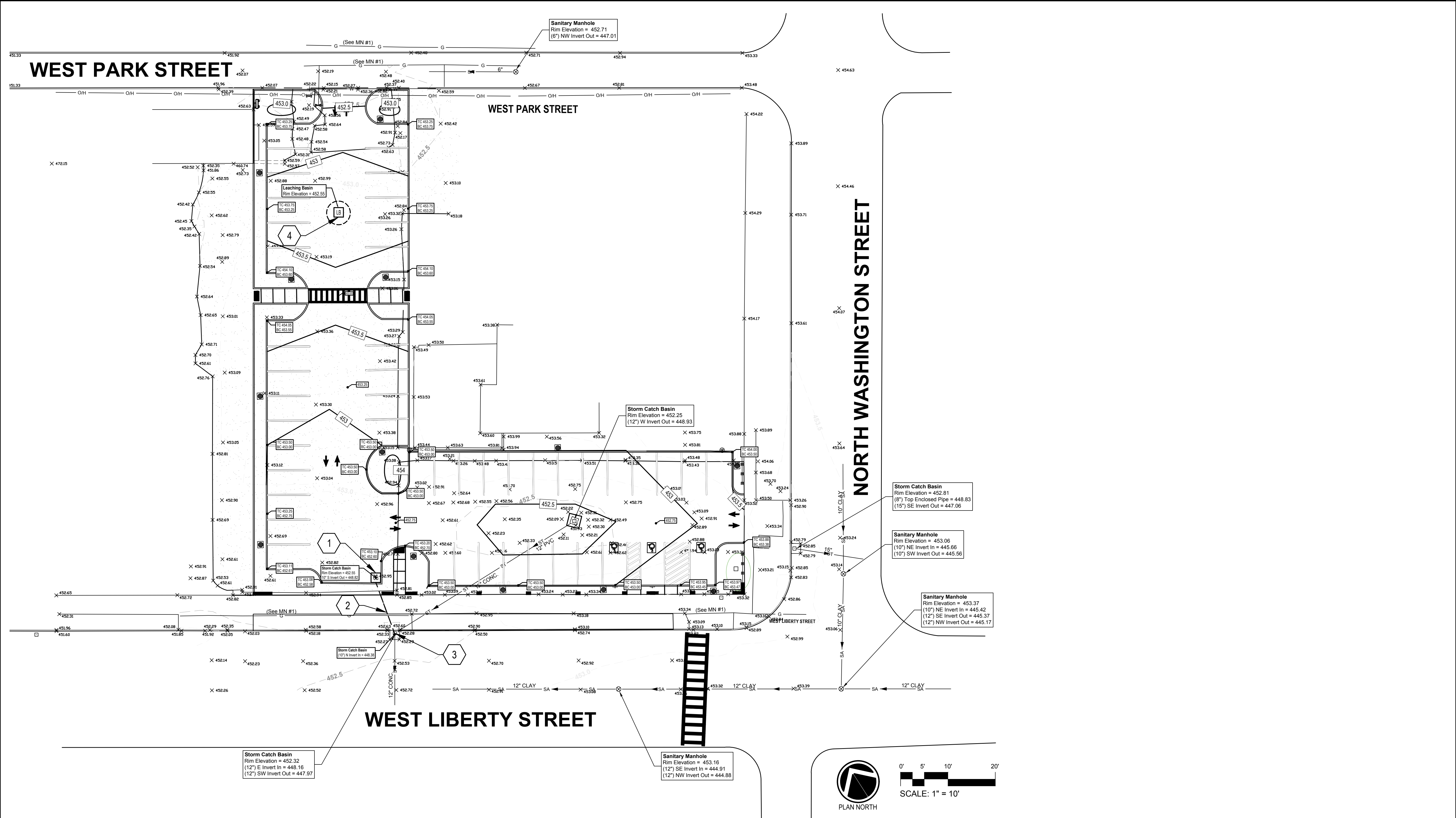
Project Name
**CITY OF ROME
ROME PARKING LOT**
ROME, NEW YORK

DELTA
ENGINEERS, ARCHITECTS, & SURVEYORS
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CERTIFICATE OF AUTHORIZATION#: 019598

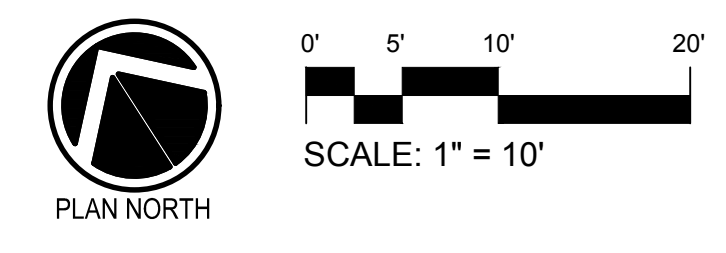
Seal	Phase	100% IFB
	Project No.	2025.369.001
	Date	2026.05.01
Dsg By	MM	Ckd By
		MH

Drawing Title
**GRADING PLAN
JAMES STREET**

Drawing No.
L-130



1 GRADING PLAN
L-131 SCALE: 1" = 20'



#	GRADING PLAN KEY NOTES
1	PROVIDE 24"x24"x4" CATCH BASIN
2	PROVIDE 10" HDPE STORM SEWER PIPE, +/- 23' AT 2% SLOPE
3	CONNECT TO EXISTING STORM STRUCTURE
4	PROVIDE 24"x24"x6" LEACHING BASIN

Key Plan



No.	Revision	Date

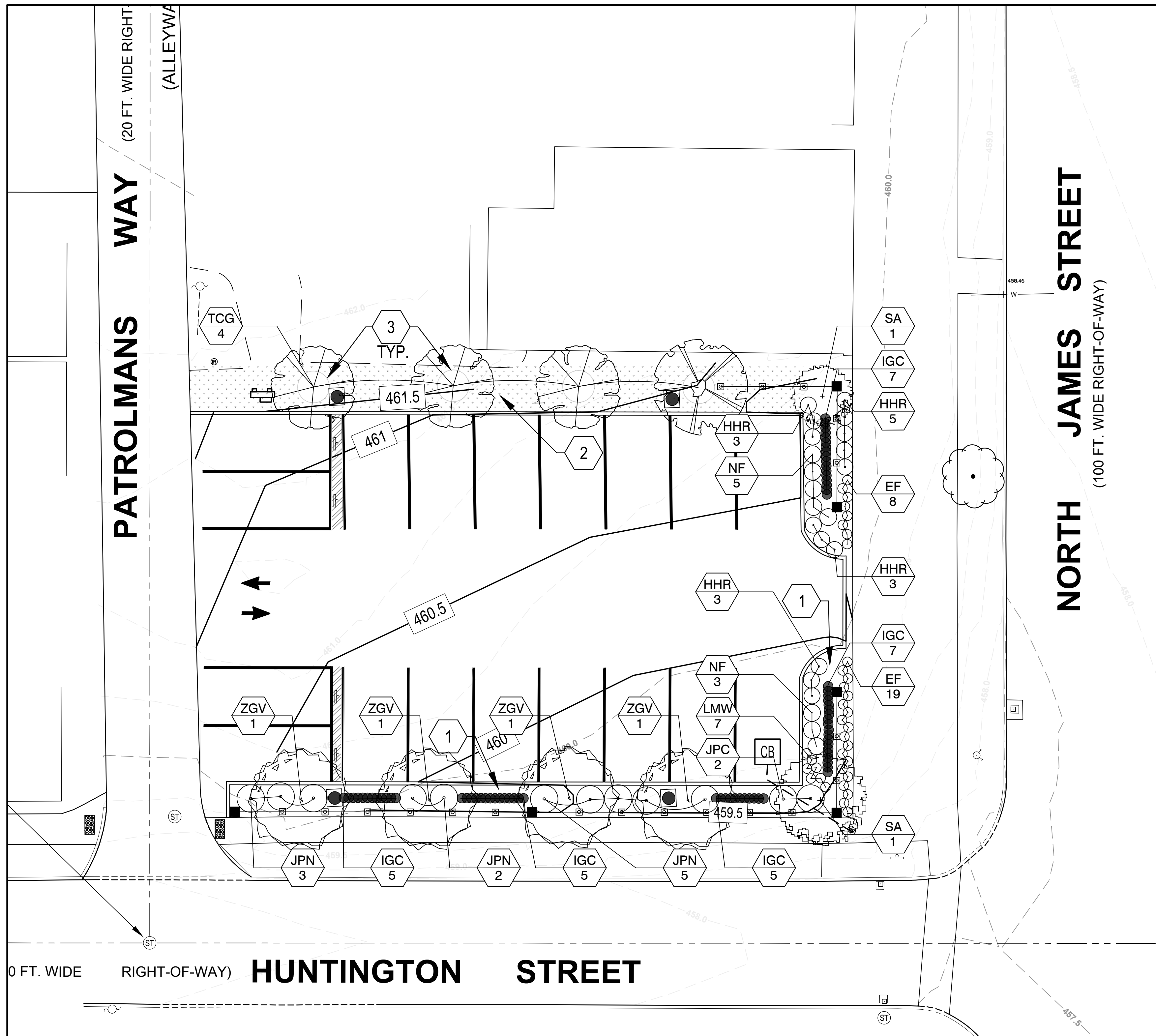
Project Name
**CITY OF ROME
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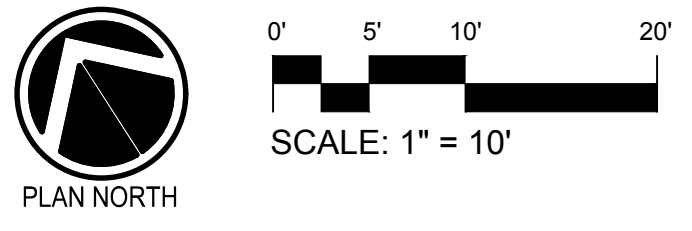
Seal	Phase 100% IFB
	Project No. 2025.369.001
	Date 2026.05.01
Dsg By MM	Ckd By MH

Drawing Title
**GRADING PLAN
LIBERTY STREET**

Drawing No.
L-131



1 PLANTING PLAN
L-102 SCALE: 1" = 10'



- GENERAL PLANTING NOTES**
1. ANY SUBSTITUTIONS OF PLANT MATERIALS MUST BE APPROVED BY LANDSCAPE ARCHITECT BEFORE INSTALLATION.
 2. CONTRACTOR IS TO TAKE ALL PRECAUTIONS NECESSARY TO LIMIT DAMAGE TO EXISTING TREES AND SHRUBS. DO NOT DRIVE OVER OR STOCKPILE MATERIALS ON ROOT ZONE OF TREES.
 3. CONTRACTOR SHALL USE BEST HORTICULTURAL PRACTICE IN PLANTING, INSTALLATION AND HANDLING OF NEW & TRANSPLANTED MATERIAL. SEE TYPICAL INSTALLATION DETAILS FOR MINIMUM STANDARDS.
 4. PLANTING PITS SHALL BE DUG TWICE THE WIDTH OF ROOT BALLS & BACKFILLED TO THE DEPTHS INDICATED ON THE DETAILS. PREPARED SOIL MIX SHALL CONSIST OF A UNIFORM MIXTURE BY VOLUME OF 2 PARTS TOPSOIL, 1 PART ORGANIC MATTER (IE. COMPOST OR EQUAL).
 5. SEE SPECIFICATIONS FOR GUARANTEE AND REQUIRED SUBMITTALS.
 6. ALL NEW EVERGREEN PLANTS ARE TO BE WILT-PROOFED IN LATE FALL. USE ACCORDING TO MANUFACTURERS INSTRUCTIONS.
 7. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT AND OWNER 48 HOURS IN ADVANCE OF PLANTING SCHEDULE. PLANTINGS AND BED EDGES ARE TO BE VISIBLY ESTABLISHED BY CONTRACTOR AND APPROVED BY LANDSCAPE ARCHITECT BEFORE INSTALLATION.
 8. TREES ARE TO BE STAKED AND GUYED PER DISCRETION OF LANDSCAPE ARCHITECT.
 9. COORDINATION WITH LANDSCAPE ARCHITECT & OWNER AND OTHER SUBCONTRACTORS IS NECESSARY FOR AN EFFICIENT AND QUALITY PROJECT.
 10. LANDSCAPE ARCHITECT TO VERIFY LOCATIONS OF ALL BULB MASSING ON PLANS BEFORE INSTALLATION BY CONTRACTOR. PERENNIALS TO BE FIELD LOCATED.
 11. ALL LAWN TREES TO HAVE A MIN. 6" DIAMETER MULCH BED, TYPICAL, WITH SQUARE BED EDGE TO LAWN. SEE DETAILS.

- PLANTING MAINTENANCE AGREEMENT**
1. FOR ALL MAINTENANCE REQUIREMENTS, IF CONTRACTOR DOES NOT PERFORM WORK, ALTERNATIVE MEANS WILL BE PURSUED BY THE OWNER AT THE EXPENSE OF THE CONTRACTOR.
 2. TREES AND SHRUBS
 - A. IMMEDIATELY AFTER PLANT INSTALLATION AND FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION, PROVIDE SUPPLEMENTAL WATERING DURING EXTENDED PERIODS OF DROUGHT, USE OF TREE GATORS ACCEPTABLE.
 - B. CLOSELY MONITOR NEWLY PLANTED TREES AND SHRUBS DURING FIRST SEASON FOR SIGNS OF DROUGHT, STRESS, DISEASE, PEST INFESTATION OR STRUCTURAL DEFECT. ADDRESS ANY AND ALL ISSUES PROMPTLY IN SUCH A MANNER THAT CONTAINS CONTAGIONS AND PREVENTS FUTURE PROBLEMS.
 3. PERENNIALS & OTHER HERBACEOUS LANDSCAPE AREAS:
 - A. WEEDING IS REQUIRED UNTIL VEGETATION IS ESTABLISHED. WEEDS SHOULD BE REMOVED BY HAND.
 - B. DEBRIS AND TRASH SHALL BE DISPOSED OF AT SUITABLE DISPOSAL/RECYCLING SITES AND MUST COMPLY WITH STATE, LOCAL, AND FEDERAL REGULATIONS.
 - C. DETRITUS IS TO BE REMOVED APPROXIMATELY TWICE PER YEAR. DEAD OR DISEASED PLANTS SHOULD BE REPLACED AND NOXIOUS INVASIVE PLANTS SPECIES SHOULD BE REMOVED. PERENNIAL PLANT SPECIES MAY BE CUT BACK AT THE END OF THE GROWING SEASON, OR BEFORE THE BEGINNING OF THE FOLLOWING GROWING SEASON.
 - D. MULCH SHOULD BE REPLACED WHEN EROSION IS EVIDENT. MULCH FOR THE ENTIRE PLANTING AREAS SHOULD BE REPLENISHED ANNUALLY UNTIL DENSE PLANT COVER IS ESTABLISHED.
 - E. IMMEDIATELY AFTER PLANT INSTALLATION AND FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION, PROVIDE SUPPLEMENTAL WATERING DURING EXTENDED PERIODS OF DROUGHT.

5/18/2026

- NOTES:
1. ALL PLANT MATERIALS ARE SPECIFIED ACCORDING TO LATEST AAN EDITION OF AMERICAN STANDARDS FOR NURSERY STOCK. MINIMUM SIZE IS MINIMUM PLANTED SIZE.
 2. PLANTS NOT KEYED TO PLAN SHALL BE FIELD LOCATED BY LANDSCAPE ARCHITECT.
 3. ALL PLANTS ARE TO MEET OR EXCEED MINIMUM SIZES SPECIFIED. QUALITY, FORM, BRANCHING, AND CONDITION WILL BE CAREFULLY EXAMINED BY LANDSCAPE ARCHITECT UPON DELIVERY. UNACCEPTABLE PLANTS WILL BE REJECTED AND MUST BE REPLACED.
 4. SUBSTITUTIONS MUST BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO ORDER CONFIRMATION.
 5. CONTRACTOR TO FIELD LOCATE TREES WITH FLAGGING FOR APPROVAL BY LANDSCAPE ARCHITECT BEFORE INSTALLATION.
 6. ALL PITS TO BE OVERSIZED.

Key	QTY	Botanical Name	Common Name	Min Ht.	Min Sprd.	Min Cal.	Root Size	Type	Comments
TREES- deciduous									
SA	2	<i>Syringa amurensis</i>	Japanese Tree Lilac	10'-12' ht.		1.5'		B&B	Multistem/fragrant
TCG	11	<i>Tilia cordata</i> 'Greenspire'	Greenspire Linden	12'-14' ht.		2.5"	28"	B&B	Street tree branching
ZGV	4	<i>Zelkova Serrata</i> "Green Vase"	Japanese Zelkova	14'-16"ht		3"	32"	B&B	Vase Shape Street Tree Branching
SHRUBS - evergreen									
IGC	22	<i>Ilex glabra</i> 'Compacta'	Compact Inkberry	24'-30" ht.				B&B	Dark Green, shiny fol.
JPC	2	<i>Juniperus chinensis</i> 'pfitzeriana compacta'	Compact Pfitzer Juniper	3' ht.	18"-24" spr.		No. 3	Cont.	Spring Planting
JPN	10	<i>Juniperus procumbens</i> nana	Japanese Garden Juniper	15" ht.	12" spr.		No. 2	Cont.	Bright green; 4' o.c.
GROUND COVER/PERENNIALS									
EF	27	<i>Euonymus fortunei</i> varieties	Wintercreeper			15'-18"spr		No. 2	Cont.
HHR	14	<i>Hemerocallis</i> 'Happy Returns'	Everblooming Dwarf Daylily					No. 2	Cont. 18" o.c.; golden yellow
LMW	7	<i>Liriope muscari</i> 'Monroe White'	Monroe's White Lily turf					No. 1	Cont. Whit. fl. hardy, deep shade
NF	8	<i>Nepeta x faassenii</i> 'Walker's Low'	Walker's Low Catmint					No. 1	Cont. Pale blue fl. 18" o.c.

PLANT LEGEND

LAWN REPAIR	
HEDGE	
PLANT KEY / QUANTITY	
SHRUB, TYP.	
TREE, TYP.	

- PLANTING PLAN NOTES:**
1. PROVIDE PLANT BED WITH 12" AMENDED PLANTING SOIL AND 4" OF MULCH SEE DETAIL 4L-503
 2. PROVIDE LAWN REPAIR. SEE DETAIL 3L-503
 3. MULCH CIRCLE BED AT ALL LAWN TREES

Key Plan



No.	Revision	Date

Project Name
**CITY OF ROME
ROME PARKING LOT**
ROME, NEW YORK

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CERTIFICATE OF AUTHORIZATION #: 019598

Seal:

Phase: 100% IFB
Project No.: 2025.369.001
Date: 2026.05.01
Dsg By: MM Ckd By: MH

Drawing Title
**PLANTING PLAN
JAMES STREET**

Drawing No.
L-140

WEST PARK STREET

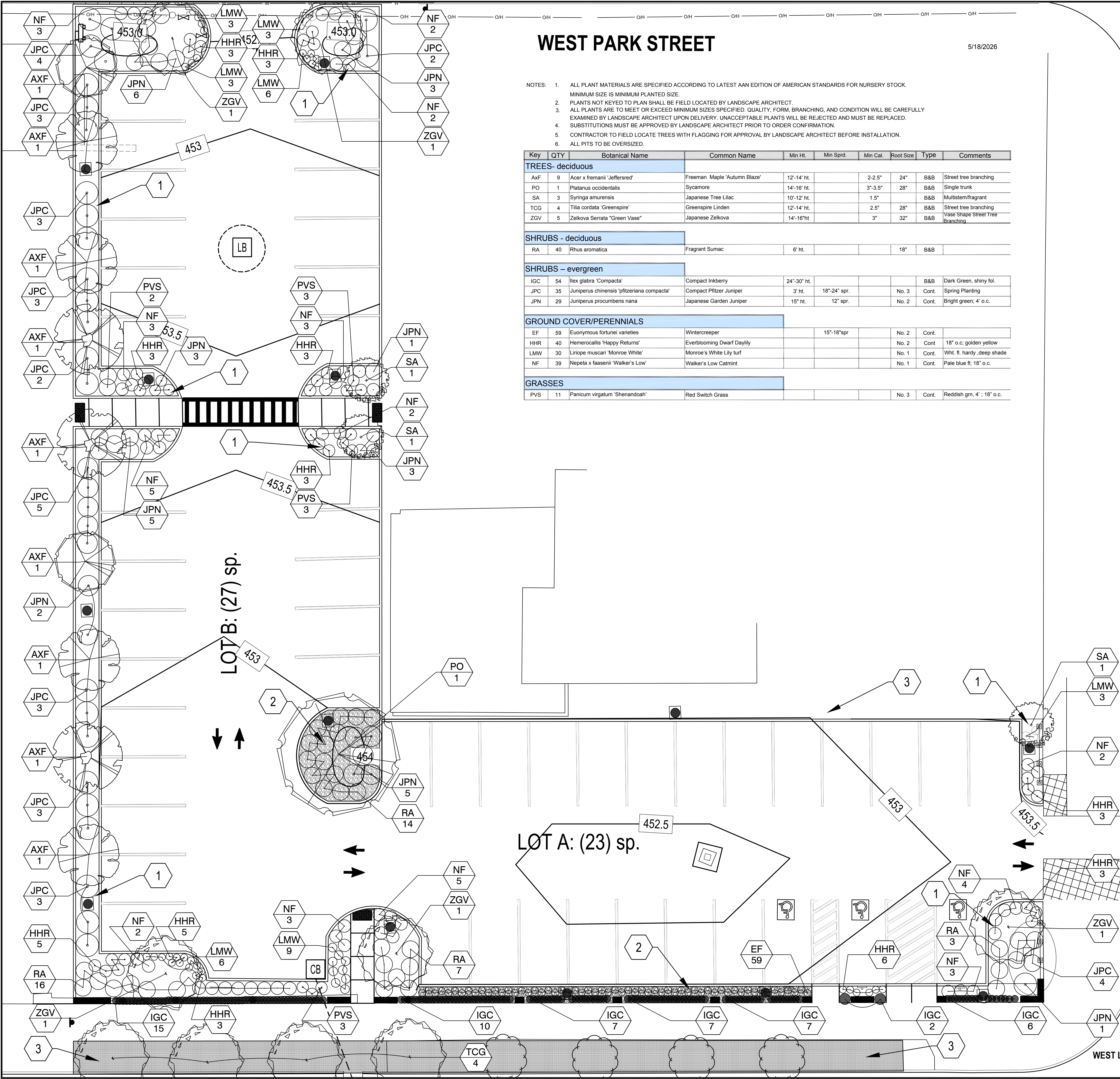
5/18/2026

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 - ALL PITS TO BE OVERSIZED.

Key	QTY	Botanical Name	Common Name	Min Ht.	Min Sprd.	Min Cal.	Root Size	Type	Comments
TREES - deciduous									
AXF	9	Acer x fremanii 'Jeffersred'	Freeman Maple 'Autumn Blaze'	12'-14' ht.			2-2.5" 24"	B&B	Street tree branching
PO	1	Platanus occidentalis	Sycamore	14'-16' ht.			3"-3.5" 28"	B&B	Single trunk
SA	3	Syringa amurensis	Japanese Tree Lilac	10'-12' ht.			1.5"	B&B	Multistem/fragrant
TCG	4	Tilia cordata 'Greenspire'	Greenspire Linden	12'-14' ht.			2.5" 28"	B&B	Street tree branching
ZGV	5	Zelkova Serrata 'Green Vase'	Japanese Zelkova	14'-16' ht.			3" 32"	B&B	Vase Shape Street Tree Branching
SHRUBS - deciduous									
RA	40	Rhus aromatica	Fragrant Sumac	6' ht.			18"	B&B	
SHRUBS - evergreen									
IGC	54	Ilex glabra 'Compacta'	Compact Inkberry	24"-30" ht.				B&B	Dark Green, shiny fol.
JPC	35	Juniperus chinensis 'pfitzeriana compacta'	Compact Pfitzer Juniper	3' ht.	18"-24" spr.		No. 3	Cont.	Spring Planting
JPN	29	Juniperus procumbens nana	Japanese Garden Juniper	15" ht.	12' spr.		No. 2	Cont.	Bright green; 4" o.c.
GROUND COVER/PERENNIALS									
EF	59	Euonymus fortunei varieties	Wintercreeper		15'-18" spr		No. 2	Cont.	
HHR	40	Hemerocallis 'Happy Returns'	Everblooming Dwarf Daylily				No. 2	Cont.	18" o.c; golden yellow
LMW	30	Liriope muscari 'Monroe White'	Monroe's White Lily turf				No. 1	Cont.	Wh. fl. hardy, deep shade
NF	39	Nepeta x faassenii 'Walker's Low'	Walker's Low Catmint				No. 1	Cont.	Pale blue fl; 18" o.c.
GRASSES									
PVS	11	Panicum virgatum 'Shenandoah'	Red Switch Grass				No. 3	Cont.	Reddish gm.; 4" 18" o.c.

- GENERAL PLANTING NOTES**
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 - SEE SPECIFICATIONS FOR GUARANTEE AND REQUIRED SUBMITTALS.
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 - ALL LAWN TREES TO HAVE A MIN. 6" DIAMETER MULCH BED, TYPICAL, WITH SQUARE BED EDGE TO LAWN. SEE DETAILS.

- PLANTING MAINTENANCE AGREEMENT**
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 - TREES AND SHRUBS
 - IMMEDIATELY AFTER PLANT INSTALLATION AND FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION, PROVIDE SUPPLEMENTAL WATERING DURING EXTENDED PERIODS OF DROUGHT. USE OF TREE GATORS ACCEPTABLE.
 - CLOSELY MONITOR NEWLY PLANTED TREES AND SHRUBS DURING FIRST SEASON FOR SIGNS OF DROUGHT STRESS, DISEASE, PEST INFESTATION OR STRUCTURAL DEFECT. ADDRESS ANY AND ALL ISSUES PROMPTLY IN SUCH A MANNER THAT CONTAINS CONTAGIONS AND PREVENTS FUTURE PROBLEMS.
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 - MULCH SHOULD BE REPLACED WHEN EROSION IS EVIDENT. MULCH FOR THE ENTIRE PLANTING AREAS SHOULD BE REFRESHED ANNUALLY UNTIL DENSE PLANT COVER IS ESTABLISHED.
 - IMMEDIATELY AFTER PLANT INSTALLATION AND FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION, PROVIDE SUPPLEMENTAL WATERING DURING EXTENDED PERIODS OF DROUGHT.



PLANT LEGEND

COBBLE MULCH STONE	
HEDGE	
PLANT KEY / QUANTITY	
SHRUB, TYP.	
TREE, TYP.	

- PLANTING PLAN NOTES:**
- PROVIDE PLANT BED WITH 12" AMENDED PLANTING SOIL AND 4" OF MULCH. SEE DETAIL 4L-503
 - PROVIDE COBBLE STONE WITH GEOTEXTILE WEED BARRIER IN PLANT BED. SEE DETAIL 4L-503
 - RESTORED LAWN AREA. SEE DETAIL 3L-503



SCALE: X" = XX'X"



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Seal:

Phase: 100% IFB
 Project No.: 2025.369.001
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 Dsg By: MM Ckd By: MH

PLANTING PLAN
LIBERTY STREET

Drawing No. **L-141**

ELECTRICAL ABBREVIATIONS	
#AF	ARC FAULT CIRCUIT BREAKER. # INDICATES BREAKER SIZE
'A' SERIES	ARCHITECTURAL DRAWINGS
'C' SERIES	CIVIL DRAWINGS
'E' SERIES	ELECTRICAL DRAWINGS
'H' SERIES	HVAC DRAWINGS
'P' SERIES	PLUMBING DRAWINGS
AF	ABOVE FINISHED FLOOR
AL	ALUMINUM
AMP	AMPERAGE
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
CB	CIRCUIT BREAKER
cd	CANDELA
CKT	CIRCUIT
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
DDC	TEMPERATURE CONTROLS
DEFIB	DEFIBRILLATOR CABINET
DIA	DIAMETER
DISC	DISCONNECT
DM	DIMMER
EF	EXHAUST FAN
EM	EMERGENCY BALLAST
EMER	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENC	ENCLOSURE
EW	ELECTRIC WATER COOLER
FA	FIRE ALARM
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRC	GALVANIZED RIGID CONDUIT
J-BOX	JUNCTION BOX
LB	CONDULETTE
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MFR	MANUFACTURER
MH	METAL HALIDE
MLO	MAIN LUG ONLY
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
OS	OCCUPANCY SENSOR
PIV	POST INDICATOR VALVE
QUAD	QUADRAPEX
RECPTS	RECEPTACLES
SPEC	SPECIFICATION
SR	SURFACE RACEWAY
SW	SWITCH
TELECO	TELECOMMUNICATIONS
TSP	TWISTED, SHIELDED PAIR
TYP	TYPICAL
UC	UNDER COUNTER
UE	UNDERGROUND ELECTRIC
UF	UNDERGROUND FIBER
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF
XFMR	TRANSFORMER
Ø	ELECTRICAL PHASE

SPECIFICATIONS	
A.	GENERAL ELECTRICAL WORK: THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE CONTRACT DOCUMENTS AND PERFORM ALL WORK SHOWN ON THE CONTRACT DOCUMENTS OR MENTIONED IN THESE SPECIFICATIONS. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION, NATIONAL ELECTRICAL CODE, NEW YORK STATE BUILDING CODE AND THE LOCAL AUTHORITY HAVING JURISDICTION.
B.	CONDUITS: ALL CONDUIT SHALL BE IN ACCORDANCE WITH THE SIZES SPECIFIED AND SHOWN ON CONTRACT DOCUMENTS. CONDUIT SHALL BE SURFACE MOUNTED AS SHOWN IN STRAIGHT LINES, RIGHT ANGLES OR PARALLEL WITH BEAMS. CONDUIT WHICH CAN BE MOVED OR ROTATED BY MANUAL PRESSURE SHALL NOT BE ACCEPTED. RIGID STEEL CONDUIT SHALL BE PROVIDED WHEN EXPOSED TO WEATHER OR FEEDERS TO PANELBOARDS. EMT MAY BE USED IN DRY LOCATIONS FOR ABOVE CONCEALED OR EXPOSED WORK.
C.	WIRES AND CABLES: ALL WIRING SHALL BE IN ACCORDANCE WITH SIZES SPECIFIED. ALL CONDUCTORS SHALL BE MADE OF COPPER OF NOT LESS THAN 98% CONDUCTIVITY. TYPE THHN SHALL BE USED FOR INDOOR FEEDERS AND BRANCH CIRCUITS, SINGLE CONDUCTOR, STANDED COPPER, 600V INSULATION, HEAT RESISTANT THERMOPLASTIC APPROVED BY NEC FOR OPERATING TEMPERATURE OF 90-DEGREES CELSIUS AND FOR INSTALLATION IN DRY LOCATIONS. NM (ROMEX) CABLE SHALL BE USED INSIDE APARTMENT UNITS FOR BRANCH CIRCUITRY. ALL OTHER SPACES SHALL USE MC FOR BRANCH CIRCUITRY. POWER FEEDS TO EQUIPMENT AND UNIT PANELS SHALL BE CONDUIT AND WIRE. TYPE FECP SHALL BE USED FOR ALL WIRING TO ALL CONTROLS. TYPE XHHW SHALL BE USED FOR FEEDERS AND BRANCH CIRCUITS TO ALL OUTDOOR AND WET LOCATIONS. MOISTURE AND HEAT RESISTANT THERMOPLASTIC APPROVED FOR OPERATING TEMPERATURE OF 75-DEGREES CELSIUS. COLOR CODING SHALL BE AS FOLLOWS: PHASE A - BLACK, PHASE B - RED, PHASE C - BLUE, NEUTRAL - WHITE, GROUND - GREEN OR BARE. FIRE ALARM CABLE SHALL BE PLENUM RATED. ALL COMMUNICATION CABLE SHALL BE CAT-5 AND PLENUM RATED.
D.	PULL AND JUNCTION BOXES: JUNCTION AND PULL BOXES SHALL BE PROVIDED WHERE REQUIRED TO FACILITATE PULLING OF WIRES AND CABLES. ALL BOXES FOR CONCEALED WORK SHALL BE CONSTRUCTED OF 12-GAUGE USS GALVANIZED SHEET STEEL MINIMUM. ALL BOXES SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND NATIONAL ELECTRICAL SAFETY CODE.
E.	WIRING DEVICES: ALL WIRING DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC). WIRING DEVICES SHALL BE DELIVERED TO JOB IN FACTORY PACKAGING WITH MANUFACTURER'S NAME, TYPE AND PART NUMBER. CONVENIENCE OUTLETS SHALL BE SPECIFICATION GRADE, DUPLEX, RATED 20A AT 125-VOLTS, AC/DC, 3-WIRE, GROUNDING TYPE, SURFACE MOUNTED. LIGHT SWITCHES SHALL BE SPECIFICATION GRADE, TOGGLE TYPE, RATED 20A AT 125-VOLTS AND COMPLETELY ENCLOSED BAKELITE BASE. FACEPLATES SHALL BE USED FOR ALL SWITCHES AND RECEPTACLES. MANUFACTURER SHALL BE RUBBELL, PAS OR LEVITON. DEVICE SHALL BE INSTALLED LEVEL AND PLUMB. SWITCHES SHALL BE INSTALLED WITH OFF POSITION DOWN. RECEPTACLES SHALL BE INSTALLED WITH GROUNDING POLE ON TOP. WALL SWITCHES SHALL BE MOUNTED AT 48" AFF AND RECEPTACLES SHALL BE MOUNTED AT 16" AFF UNLESS NOTED OTHERWISE.
F.	GROUNDING: THE ENTIRE ELECTRICAL SYSTEM SHALL BE MAINTAINED AT A REASONABLE GROUND LEVEL TO PROTECT AGAINST A BUILD UP OF STATIC ELECTRICAL CHARGES. ALL ELECTRICAL EQUIPMENT SHALL BE INDIVIDUALLY GROUNDING WITH WIRE OF APPROPRIATE SIZE. EQUIPMENT GROUND CONDUCTORS SHALL BE CONNECTED TO THE GROUND BUS. GROUND WIRES SHALL BE BARE. GROUNDING SHALL BE IN ACCORDANCE WITH ARTICLE 250 OF THE NEC.
G.	PANELBOARDS: THE AC POWER PANELBOARD SHALL BE MOUNTED IN AN ENCLOSING CABINET CONSISTING OF A SHEET STEEL BOX WITH TRIM AND DOOR. PANELS SHALL BE CONSTRUCTED IN ACCORDANCE WITH UNDERWRITERS LABORATORIES, INC. SPECIFICATIONS. PANEL SHALL BE EQUIPPED AS SHOWN ON THE PANEL SCHEDULES AND ONE-LINE RISER DIAGRAM. PANEL SHALL HAVE SHORT CIRCUIT CURRENT RATING AS NOTED ON PANEL SCHEDULES AND ONE-LINE RISER DIAGRAM. POWER PANELS SHALL BE EQUIPPED WITH MOLDED CASE CIRCUIT BREAKERS, HAVING COMMON THERMAL MAGNETIC TRIP ELEMENTS, QUICK-MAKE, QUICK-BREAK TOGGLE MECHANISM AND ARC CHUTES. MANUFACTURER SHALL BE SQUARE D, CLASS 1170, 1640 OR 2110.
H.	LIGHTING FIXTURES: ALL LIGHTING FIXTURES SHALL BE PROVIDED AS SHOWN ON LIGHTING FIXTURE SCHEDULE AND SITE PLAN. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL OF THE ENGINEER, MANUFACTURER'S DETAILED OUT SHEETS SHOWING ALL PHOTOMETRIC DATA. ANY FIXTURE SUBMITTED OTHER THAN THE FIXTURE SPECIFIED SHALL HAVE FULL PHOTOMETRIC DATA SHOWING CANDLEPOWER DISTRIBUTION, AVERAGE MAINTAINED FOOTCANDLE LEVEL CALCULATIONS. LAMPS SHALL BE SUPPLIED BY GENERAL ELECTRIC OR PENNSYLVANIA, FOUR FOOT FLOURESCENT LAMPS SHALL BE OF THE ENERGY EFFICIENT TYPE AND SHALL COMPLY WITH NEW YORK STATE ENERGY CODE REQUIREMENTS. FIXTURES SHALL BE SUPPLIED WITH LAMPS, BALLASTS AND MOUNTING ACCESSORIES.
I.	EXIT LIGHT FIXTURES: ALL EXIT LIGHT FIXTURES SHALL BE PROVIDED AS SHOWN ON PLANS. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO ENGINEER, MANUFACTURER'S DETAILED OUT SHEETS SHOWING WATTAGE, LAMP TYPE, ENCLOSURE MATERIALS, SELF-POWERED NICKEL-CADMIUM BATTERY AND CHARGING SYSTEM AND LENS COLOR. EXIT LIGHT TO BE UNIVERSAL MOUNT TYPE - INFINITY MODEL EXIT-R-EM-WHT OR EQUAL.

TELECOMMUNICATIONS GENERAL NOTES	
A.	PERFORM ALL BACKBONE CABLE INSTALLATION IN CONFORMANCE WITH MANUFACTURER'S INSTALLATION GUIDELINES.
B.	ENSURE THAT MAXIMUM PULLING TENSION OF TELCO CABLES ARE NOT EXCEEDED AND CABLE BENDS MAINTAIN THE PROPER BEND RADIUS DURING INSTALLATION.
C.	DO NOT ROLL OR STORE CABLE REELS WITHOUT AN APPROPRIATE UNDERLAY.
D.	PROVIDE STRAIN RELIEF FOR ALL INCOMING TELCO CABLES AT SERVICE ENTRANCE.
E.	DATA / TELEVISION AND TELEPHONE OUTLETS: PROVIDE A 4x4 BACKBOX WITH 3/4-IN. EMT AND PULLSTRING TO ABOVE FINISHED CEILING. BUSH END OF CONDUIT ABOVE CEILING PROVIDE A SINGLE-GANG MUD RING AT JUNCTION BOX. PROVIDE COVERPLATES, JACKS, TERMINATIONS AND TESTING. REFER TO TELCO RISERS FOR CABLING REQUIREMENTS.
F.	INSTALL TELCO WIRING IN EXPOSED LOCATIONS, CONCEALED WITHIN WALLS OR INACCESSIBLE CEILINGS IN RIGID, METALLIC RACEWAY.
G.	NEATLY BUNDLE, TIGHTLY WRAP AND SECURE TELCO WIRING TO BUILDING STRUCTURE ABOVE ACCESSIBLE CEILINGS USING APPROVED HANGERS.
H.	PROVIDE 2-IN. DIAMETER (UNLESS NOTED OTHERWISE) CONDUIT SLEEVES THROUGH FLOORS AND ABOVE FINISHED CEILINGS. BUSH BOTH ENDS OF SLEEVES.
I.	PROVIDE THROUGH AND MEMBRANE FIRESTOPPING AT ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION AFTER INSTALLATION OF TELCO CABLES. REFER TO CODE COMPLIANCE PLANS FOR LOCATIONS OF FIRE RATED CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS PERTAINING TO RATED FLOOR, CEILING AND PARTITION TYPES INCLUDING THE RELEVANT UL DESIGN NUMBER AND FIRE RATING IN HOURS. REFER TO SPECIFICATION SECTION 078400 FOR ADDITIONAL FIRESTOPPING REQUIREMENTS.
J.	SEAL ALL PENETRATIONS THROUGH NON-FIRE RATED CONSTRUCTION WITH MORTAR.
K.	PRE-TEST THE DATA, TELEVISION AND TELEPHONE SYSTEMS AND VERIFY THEY ARE OPERATING PROPERLY AND IN ACCORDANCE WITH THE ORIGINAL DESIGN. ISSUE A REPORT DETAILING ALL FINDINGS OR DEFICIENCIES TO OWNER. REFER TO SPECIFICATIONS FOR PRE-TEST REQUIREMENTS FOR EACH SYSTEM.
L.	TELCO CABLE SUPPORTS (J-HOOKS, ETC.) SHALL BE SECURED TO THE BUILDING STRUCTURE NO MORE THAN 4-FT. APART.

POWER GENERAL NOTES	
A.	ELECTRICAL PLANS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO DEPICT ALL OF THE ARCHITECTURAL DETAIL OR SPECIFIC ROUTING OF CONDUITS, WIRING, ETC. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ROUTING ON SITE WITH ACTUAL CONDITIONS.
B.	ALL EQUIPMENT AND MATERIALS SHALL SHOW EVIDENCE OF LISTING OR LABELING BY AN AGENCY ACCEPTABLE TO THE BUILDING CODE OF NEW YORK STATE.
C.	PROVIDE ALL NECESSARY ANCHORS, SUPPORTS, STRAPS, BOXES, FITTINGS AND OTHER APPURTENANCES NOT INDICATED ON THE DRAWINGS BUT REQUIRED FOR A COMPLETE SYSTEM.
D.	INSTALL ALL BRANCH CIRCUITRY WITHIN RACEWAY UNLESS NOTED OTHERWISE. MINIMUM DIAMETER OF RACEWAY IS 3/4-IN.
E.	ALL CONDUIT SHALL BE SUPPORTED BY PIPE STRAPS, SUITABLE CLAMPS OR HANGERS ATTACHED TO THE BUILDING STRUCTURE. CONDUIT SHALL NOT BE SUPPORTED FROM ADJOINING PIPE OR INSTALLED IN SUCH A MANNER AS TO PREVENT THE READY REMOVAL OF OTHER EQUIPMENT FOR REPAIRS.
F.	CONDUCTORS #12 AND SMALLER SHALL BE SOLID COPPER TYPE XHHW, THHN OR THWN. CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER TYPE XHHW, THHN OR THWN. CONDUCTORS INSTALLED IN DAMP OR WET LOCATIONS SHALL BE TYPE XHHW.
G.	IDENTIFY ALL CONDUCTORS AT BOTH ENDS AND WITHIN CABINETS AND JUNCTION BOXES WITH PREMARKED, SELF-ADHESIVE, WRAPAROUND TYPE LABELS.
H.	PROVIDE A SEPARATE NEUTRAL CONDUCTOR WITH EACH BRANCH CIRCUIT. SHARED NEUTRAL CONDUCTORS ARE NOT PERMITTED.
I.	GROUNDING CONDUCTORS ARE GENERALLY NOT SHOWN. GROUND AND BOND ALL EQUIPMENT, RACEWAYS, MOTORS, PANELBOARDS, SWITCHBOARDS, ETC. IN ACCORDANCE WITH NEC ARTICLE 250.
J.	CONDUIT SYSTEMS SHALL BE ELECTRICALLY CONTINUOUS. ALL LOCK NUTS SHALL CUT THROUGH ENAMELED OR PAINTED SURFACES OR ENCLOSURES. WHERE ENCLOSURES AND NON-CURRENT CARRYING METALS ARE ISOLATED FROM THE CONDUIT SYSTEM, USE BONDING JUMPERS WITH APPROVED CLAMPS. WHERE REDUCING WASHERS ARE USED AND WHERE CONCENTRIC OR ECCENTRIC KNOCKOUTS ARE NOT COMPLETELY REMOVED BONDING BUSHINGS ARE REQUIRED.
K.	SIZE ALL MOTOR OVERLOADS OR FUSES WITH THE ACTUAL EQUIPMENT NAMEPLATE. FUSES FOR MOTOR AND TRANSFORMER CIRCUITS SHALL BE DUAL ELEMENT. FUSES FOR OTHER "NON-INRUSH" EQUIPMENT SHALL BE FAST ACTING. ALL FUSES SHALL BE CURRENT LIMITING CLASS RK5 OR CLASS L UNLESS OTHERWISE NOTED.
L.	CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE MADE WITH A MINIMUM OF 24-IN. FLEXIBLE CONDUIT TO PREVENT SOUND AND VIBRATION TRANSMISSION.
M.	CORE DRILL OPENINGS IN FLOOR SLABS/WALLS/FOUNDATIONS AS REQUIRED TO INSTALL CONDUITS.
N.	PROVIDE THROUGH AND MEMBRANE FIRESTOPPING AT ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION. REFER TO CODE COMPLIANCE PLANS FOR LOCATIONS OF FIRE RATED CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS PERTAINING TO RATED FLOOR, CEILING AND PARTITION TYPES INCLUDING THE RELEVANT UL DESIGN NUMBER AND FIRE RATING IN HOURS. REFER TO SPECIFICATION SECTION 078400 FOR ADDITIONAL FIRESTOPPING REQUIREMENTS.
O.	SEAL ALL PENETRATIONS THROUGH NON-FIRE RATED CONSTRUCTION WITH MORTAR.
P.	COORDINATE LOCATION OF ELECTRIC WATER COOLER (EWC) DUPLEX RECEPTACLE WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
Q.	COORDINATE MOUNTING HEIGHT AND LOCATION OF EQUIPMENT INSTALLED ABOVE CASEWORK AND FURNITURE WITH APPROVED SHOP DRAWINGS AND CASEWORK INSTALLER PRIOR TO ROUGH-IN.
R.	MAINTAIN NEC MANDATED MINIMUM WORKING AND DEDICATED EQUIPMENT SPACE AT ALL PANELBOARDS, SWITCHBOARDS AND MOTOR CONTROL CENTERS.
S.	PROVIDE ADEQUATE SPACE AROUND EQUIPMENT THAT REQUIRES MAINTENANCE OR ADJUSTMENT.
T.	PROVIDE PULLSTRING IN ALL RACEWAYS.
U.	LABEL ALL JUNCTION BOX COVERS INDICATING THE PANEL NAME AND CIRCUIT NUMBER CONTAINED WITHIN.
V.	PROVIDE CLEAR LABELS ON ALL RECEPTACLE AND LIGHT SWITCH COVERPLATES INDICATING THE PANEL NAME AND CIRCUIT NUMBER.

Key Plan



SCALE: 1" = 30'-0"

No.	Revision	Date

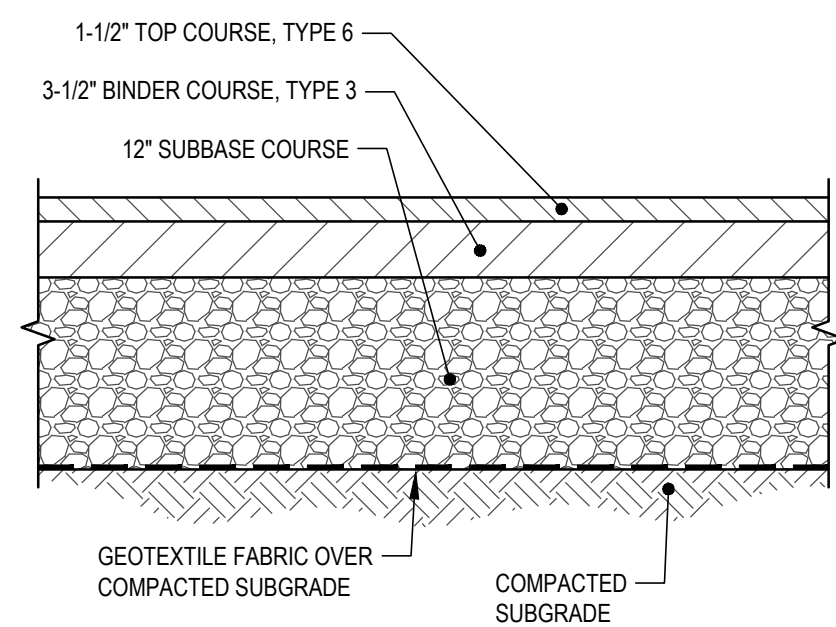
Project Name
CITY OF ROME
ROME PARKING LOT
 ROME, NEW YORK

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 CERTIFICATE OF AUTHORIZATION #: 019598

Seal	Phase	100% IFB
	Project No.	2025.369.001
	Date	2026.05.01
Dsg By	MM	Ckd By
		MH

Drawing Title
ELECTRICAL NOTES

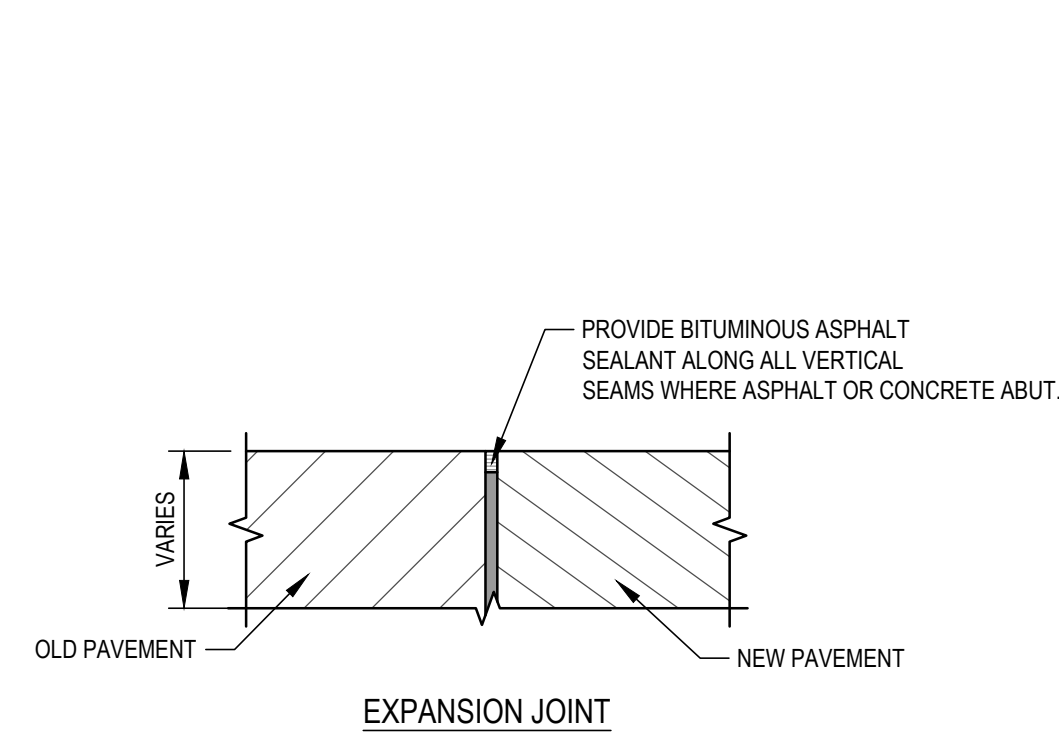
Drawing No.
E-001



NOTE: TACK COAT TO BE USED BETWEEN ALL LIFTS OF PAVEMENT AND ON VERTICAL EDGES ABUTTING OTHER ASPHALT OR CONCRETE.

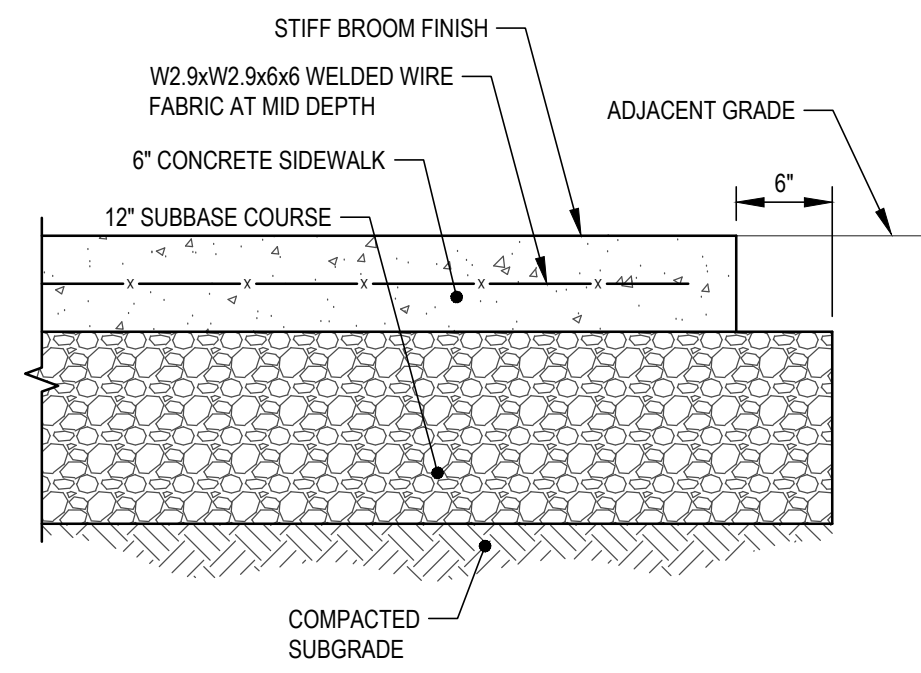
1 STANDARD DUTY ASPHALT PAVEMENT DETAIL

L-500 SCALE: NONE



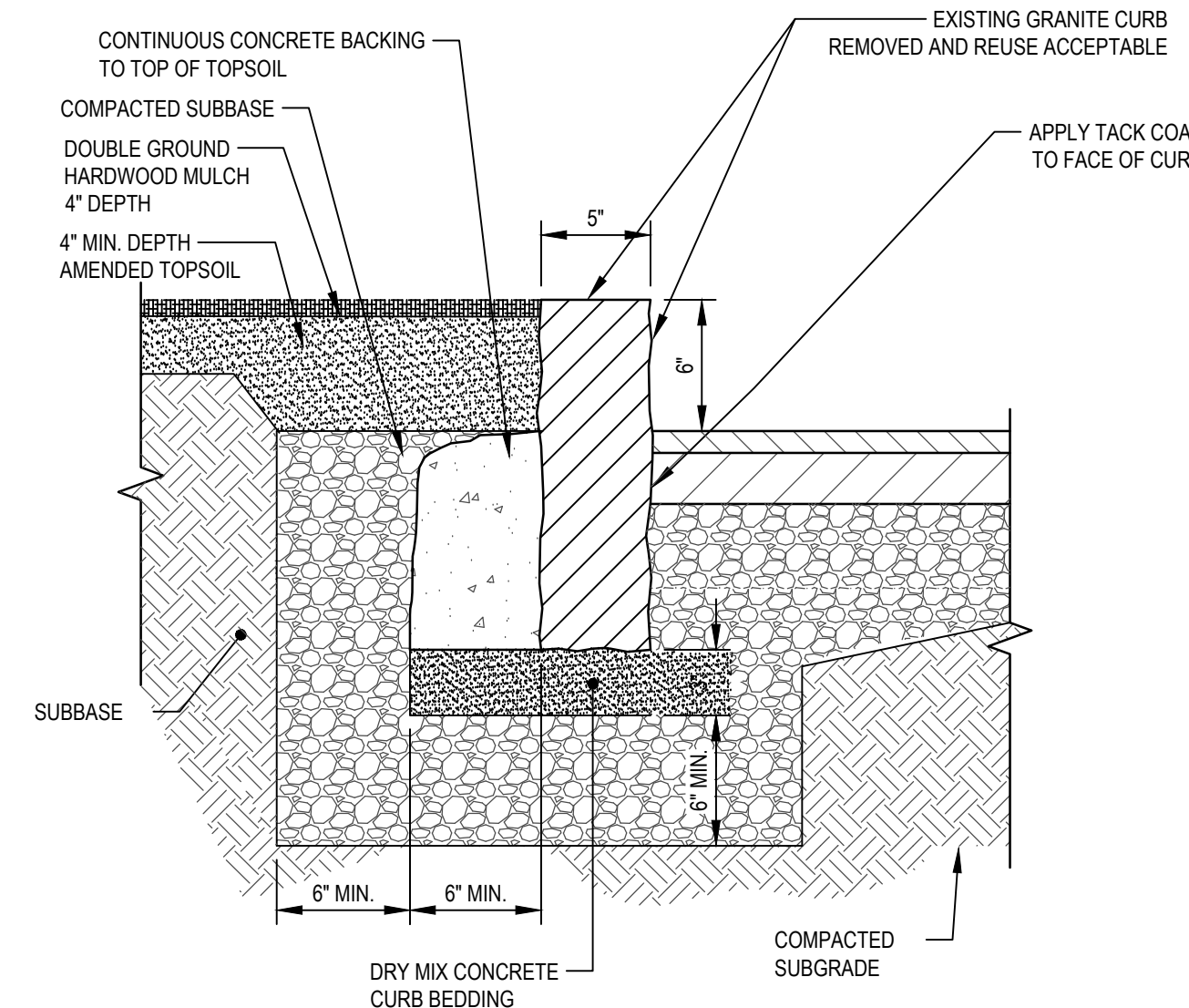
2 ASPHALT JOINT DETAIL

L-500 SCALE: NONE



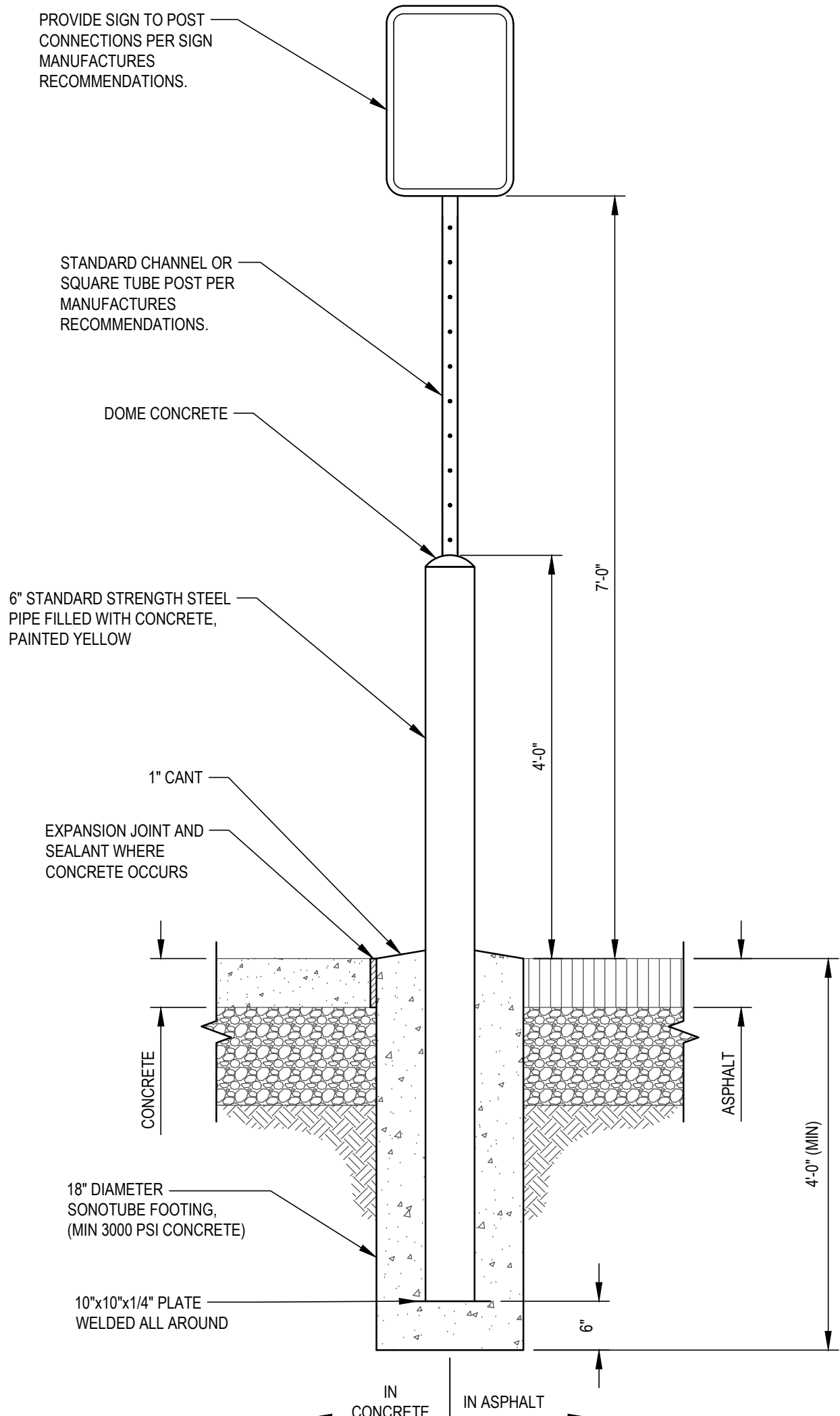
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L-500 SCALE: NONE



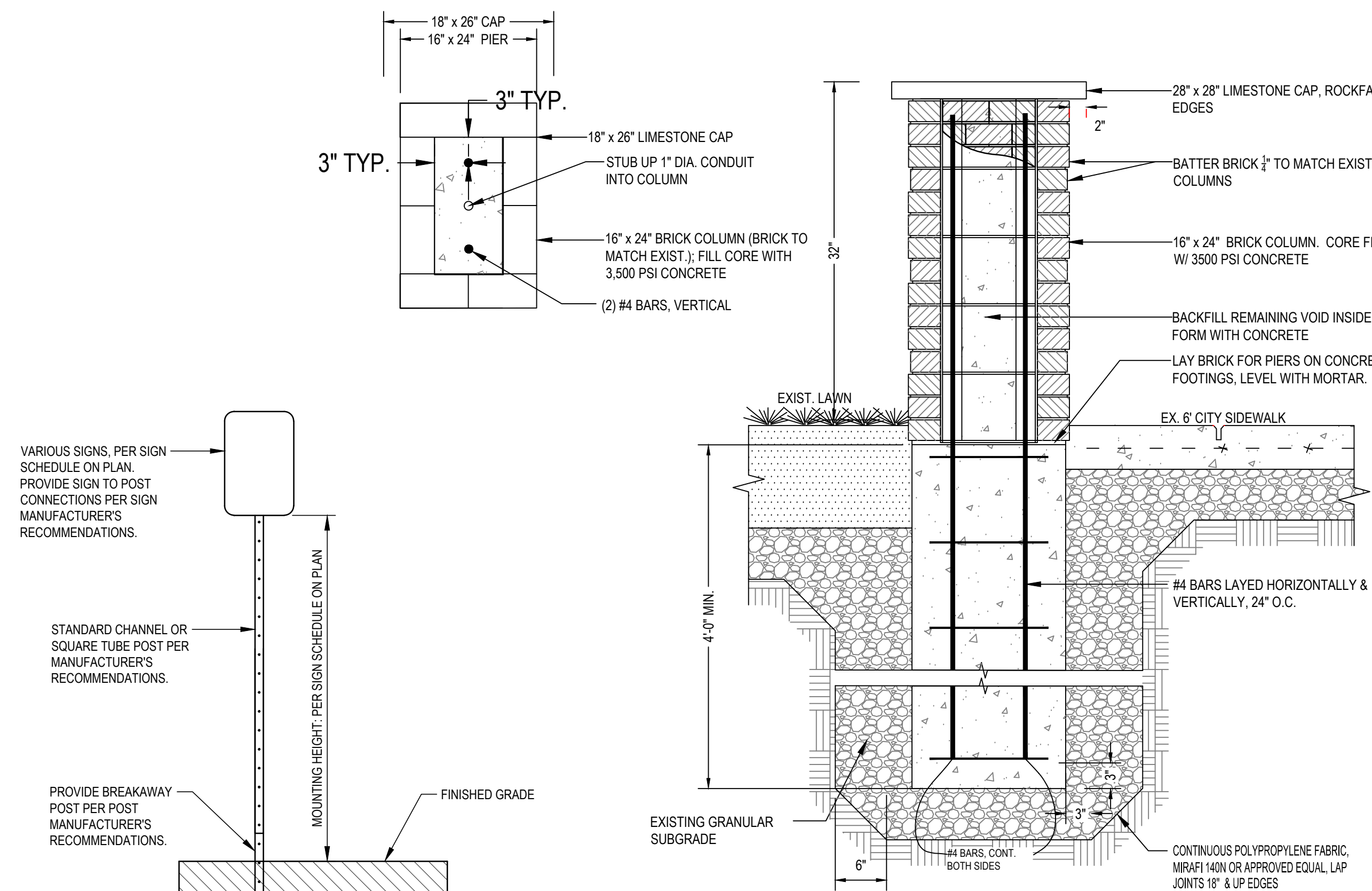
4 GRANITE CURB PLANTER BED DETAIL

L-500 SCALE: NONE



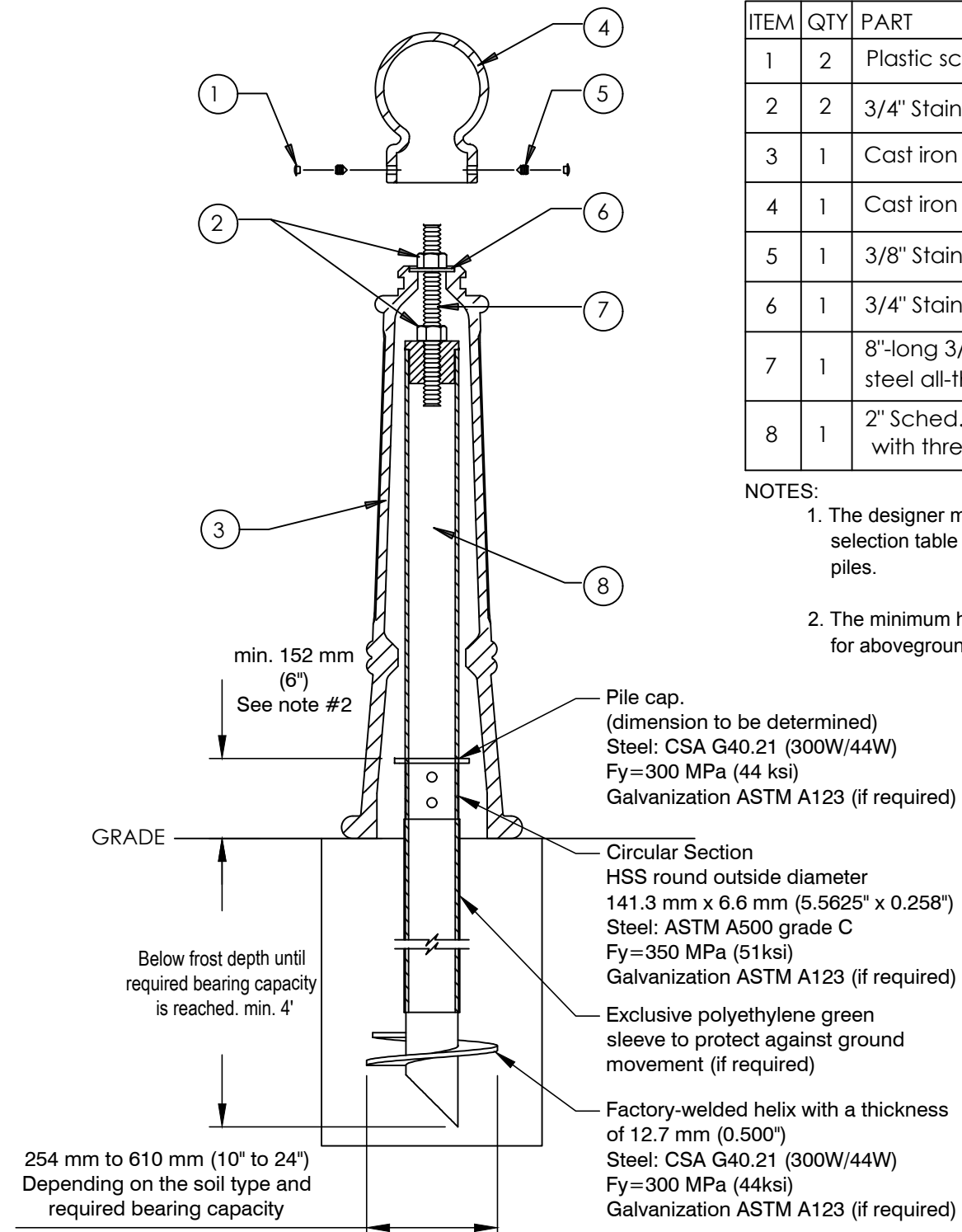
5A SIGN INSTALLATION DETAIL

L-500 SCALE: NONE



6 FREE STANDING BRICK PIER DETAIL

L-500 SCALE: NONE



7 BOLLARD WITH CHAIN DETAIL

L-500 SCALE: NONE

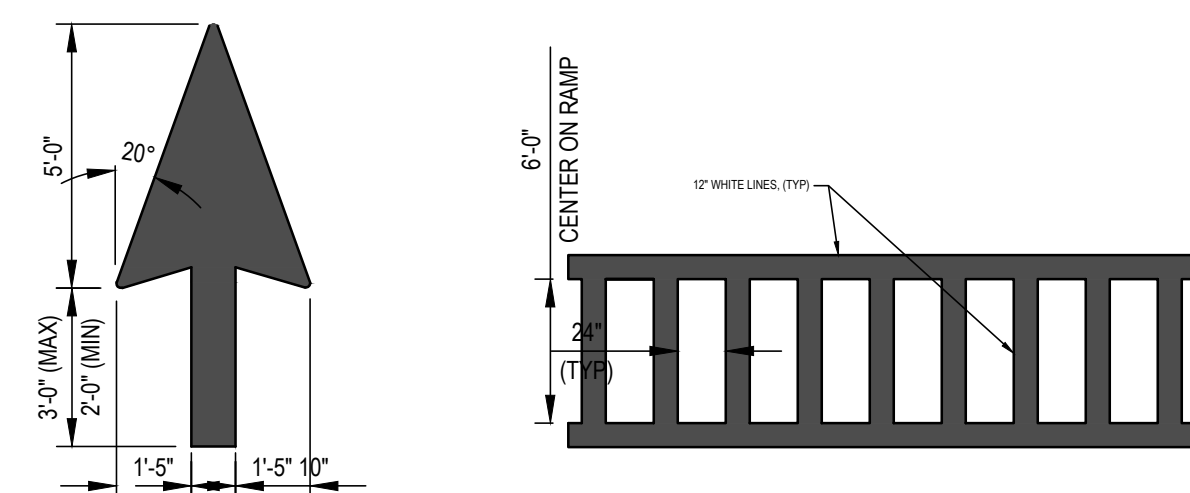
Model No. 100-GTF - Promenade Series - Type P mount

ITEM	QTY	PART	WEIGHT
1	2	Plastic screw caps.	.18g ea.
2	2	3/4" Stainless steel nuts.	.14lbs. ea.
3	1	Cast iron taper flute pedestal.	58.2 lbs.
4	1	Cast iron small globe top.	8.8 lbs.
5	1	3/8" Stainless steel set screws.	3.7 g ea.
6	1	3/4" Stainless steel washer.	.11 lbs.
7	1	8" long 3/4" dia. stainless steel all-thread.	.8 lbs.
8	1	2" Sched. 40 Steel pipe with threaded plug.	14.5 lbs.

NOTES:
 1. The designer must refer to the Techno Metal Post selection table regarding the bearing capacity of the piles.
 2. The minimum height shown on the plan is appropriate for aboveground applications only.

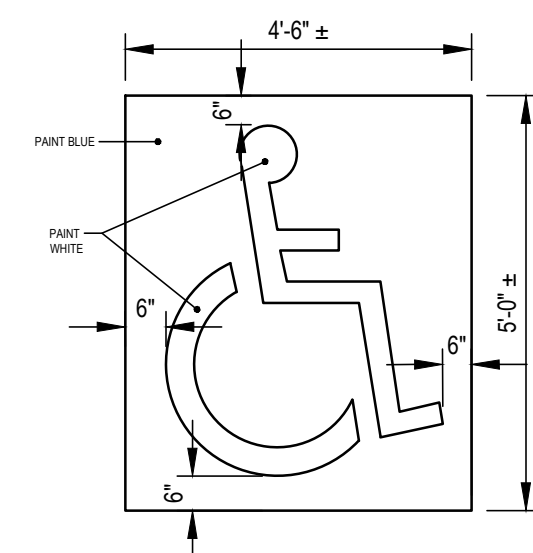
5B SIGN INSTALLATION DETAIL

L-500 SCALE: NONE



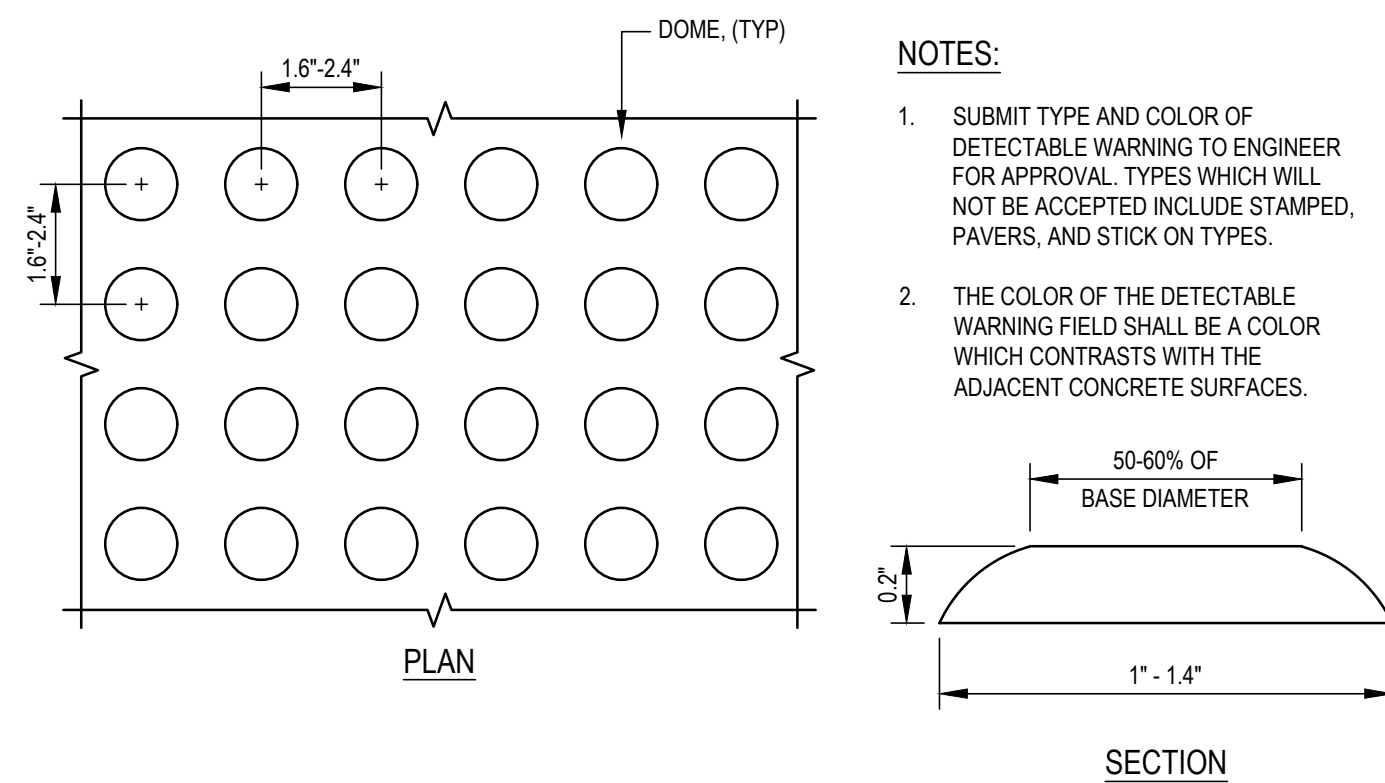
8 PAVEMENT PAINT DETAILS

L-500 SCALE: NONE



9 HANDICAPPED PARKING DETAIL

L-500 SCALE: NONE



10 DETECTABLE WARNINGS DETAIL

L-500 SCALE: NONE

Key Plan



Project Name
CITY OF ROME
ROME PARKING LOT
 ROME, NEW YORK

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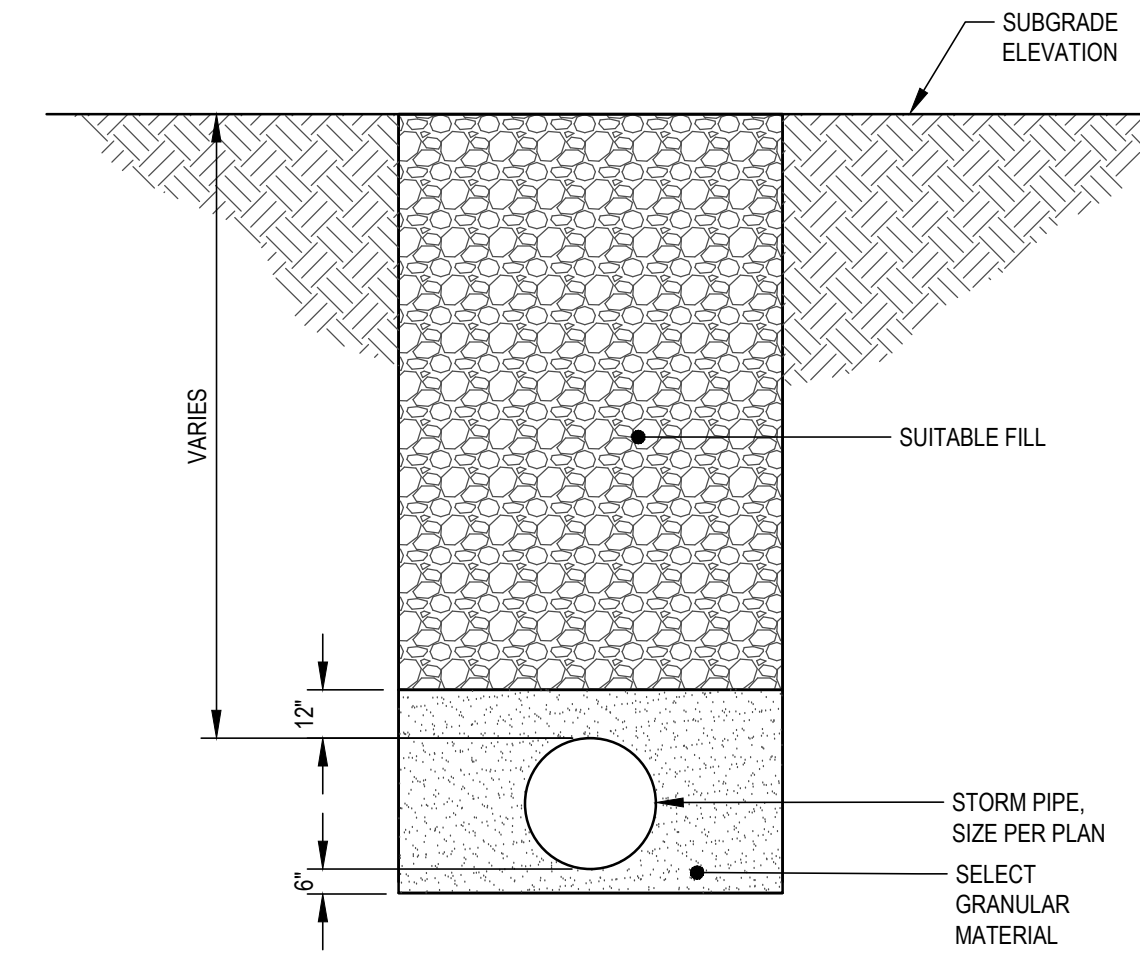
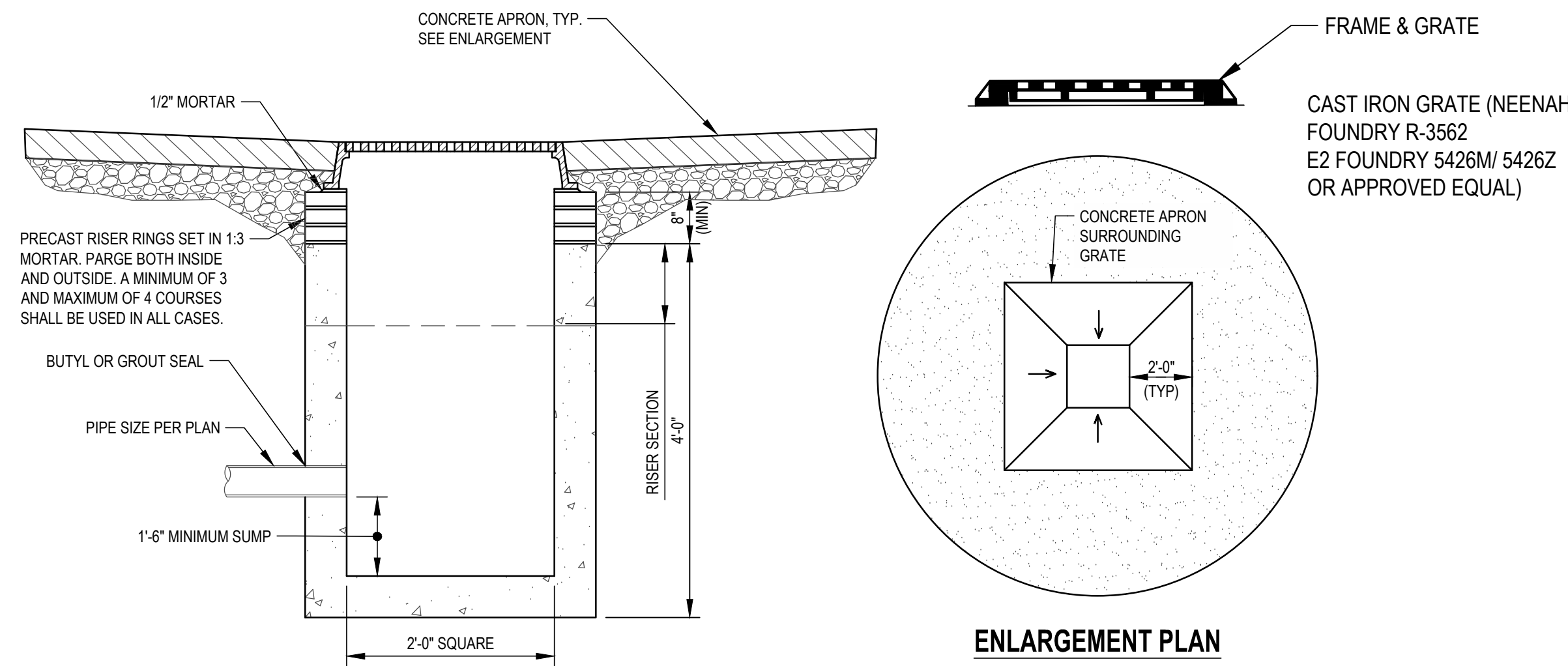
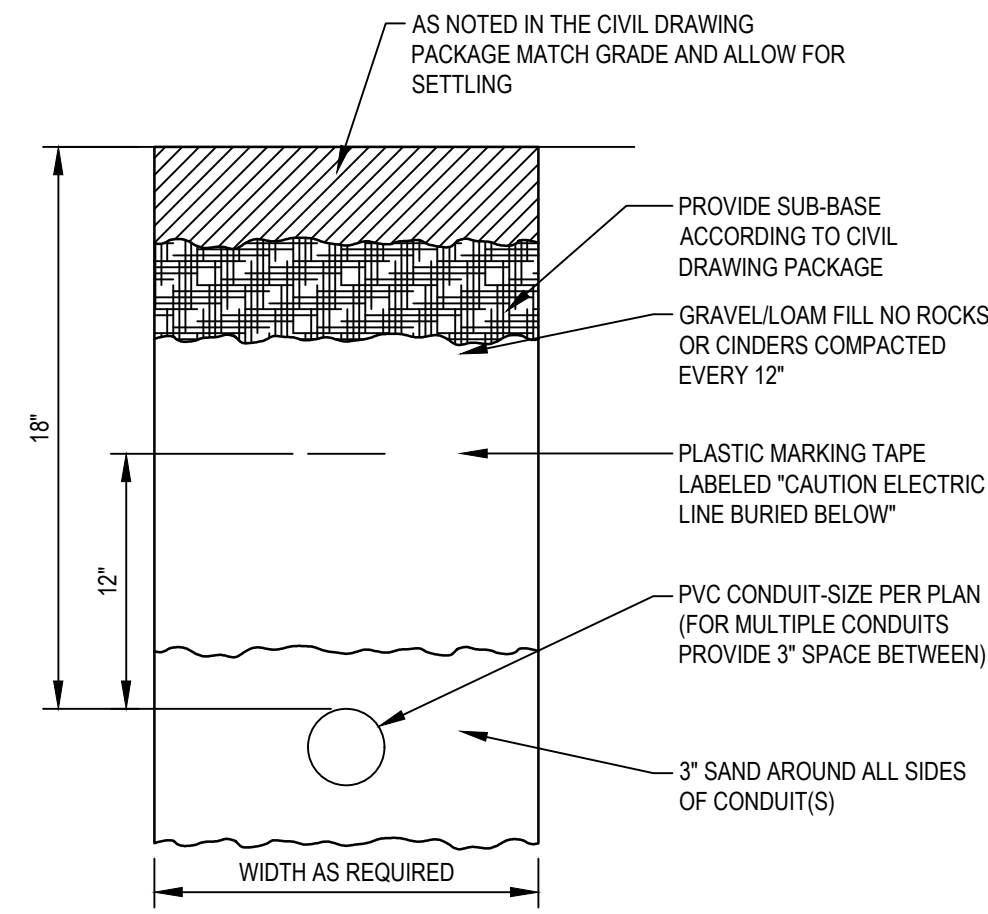


Seal	Phase	100% IFB
Project No.	2025.369.001	
Date	2026.05.01	
Dsg By	MM	Ckd By
		MH

Drawing Title
PAVEMENT DETAILS

Drawing No.

L-500



1 TYPICAL BURIED CONDUIT DETAIL

L-502 SCALE: NONE

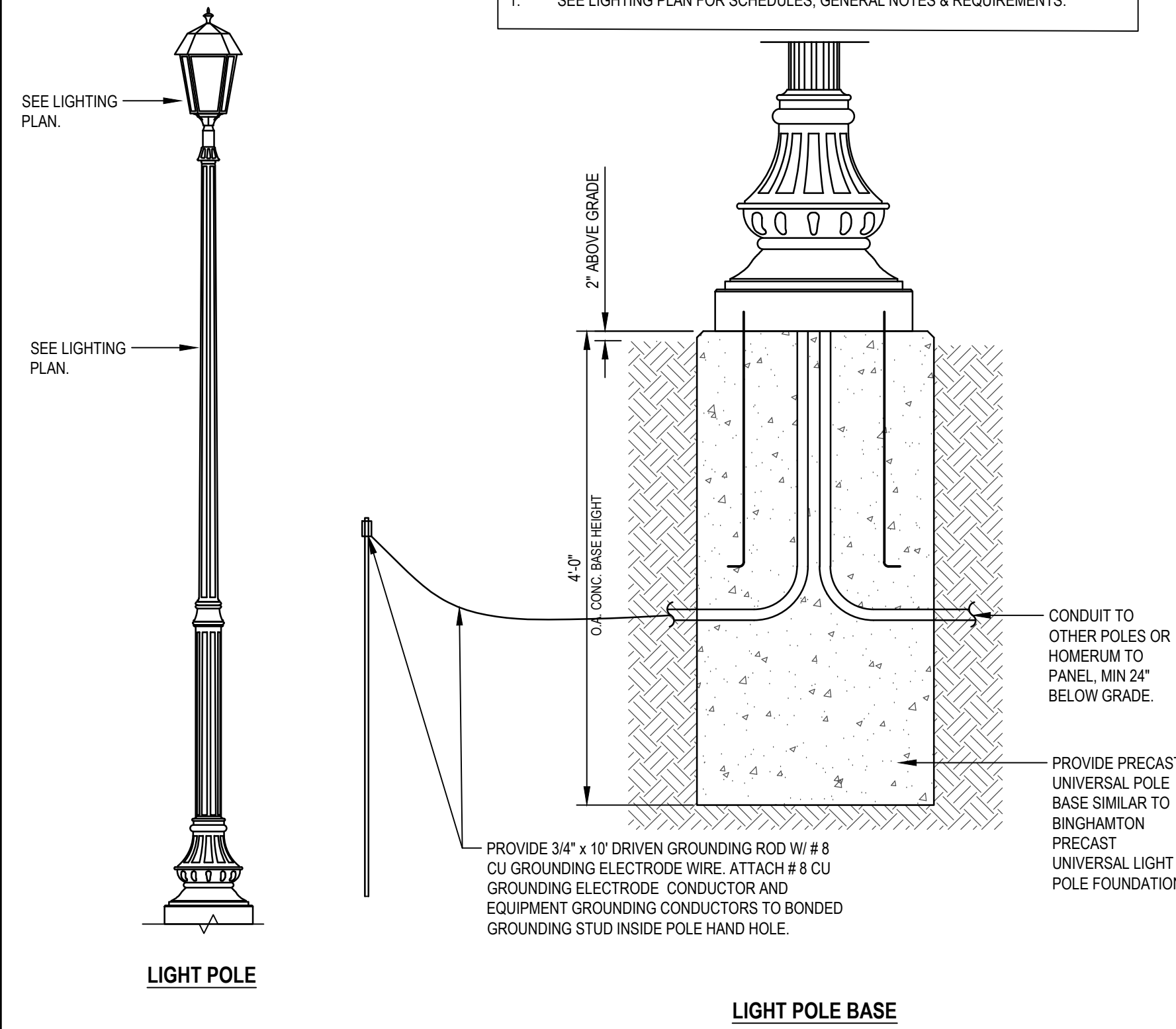
2 24" X 24" PRECAST CONCRETE CATCH BASIN DETAIL

L-502 SCALE: NONE

3 STORM PIPE TRENCH SECTION DETAIL

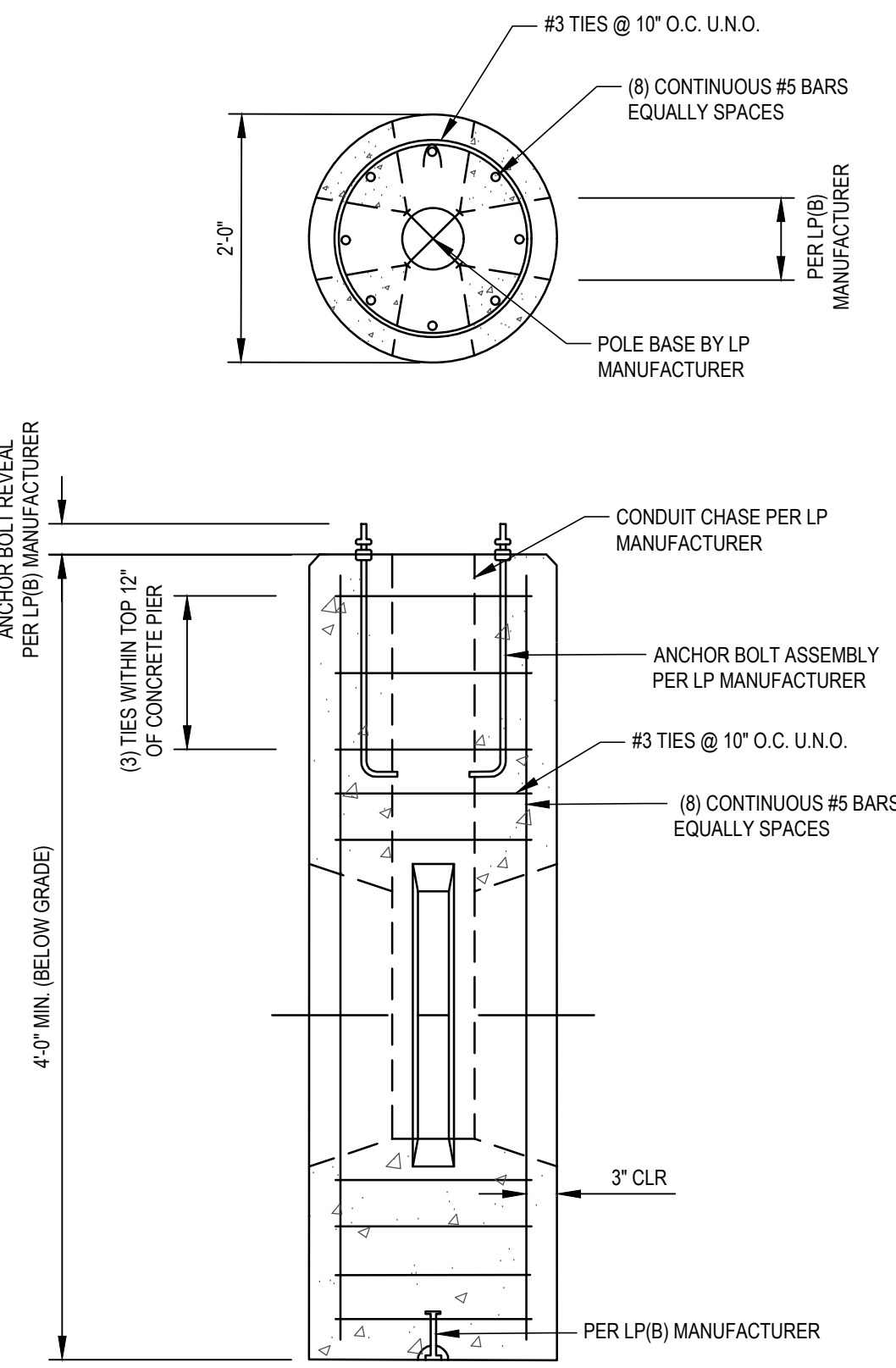
L-502 SCALE: NONE

NOTES:
1. SEE LIGHTING PLAN FOR SCHEDULES, GENERAL NOTES & REQUIREMENTS.

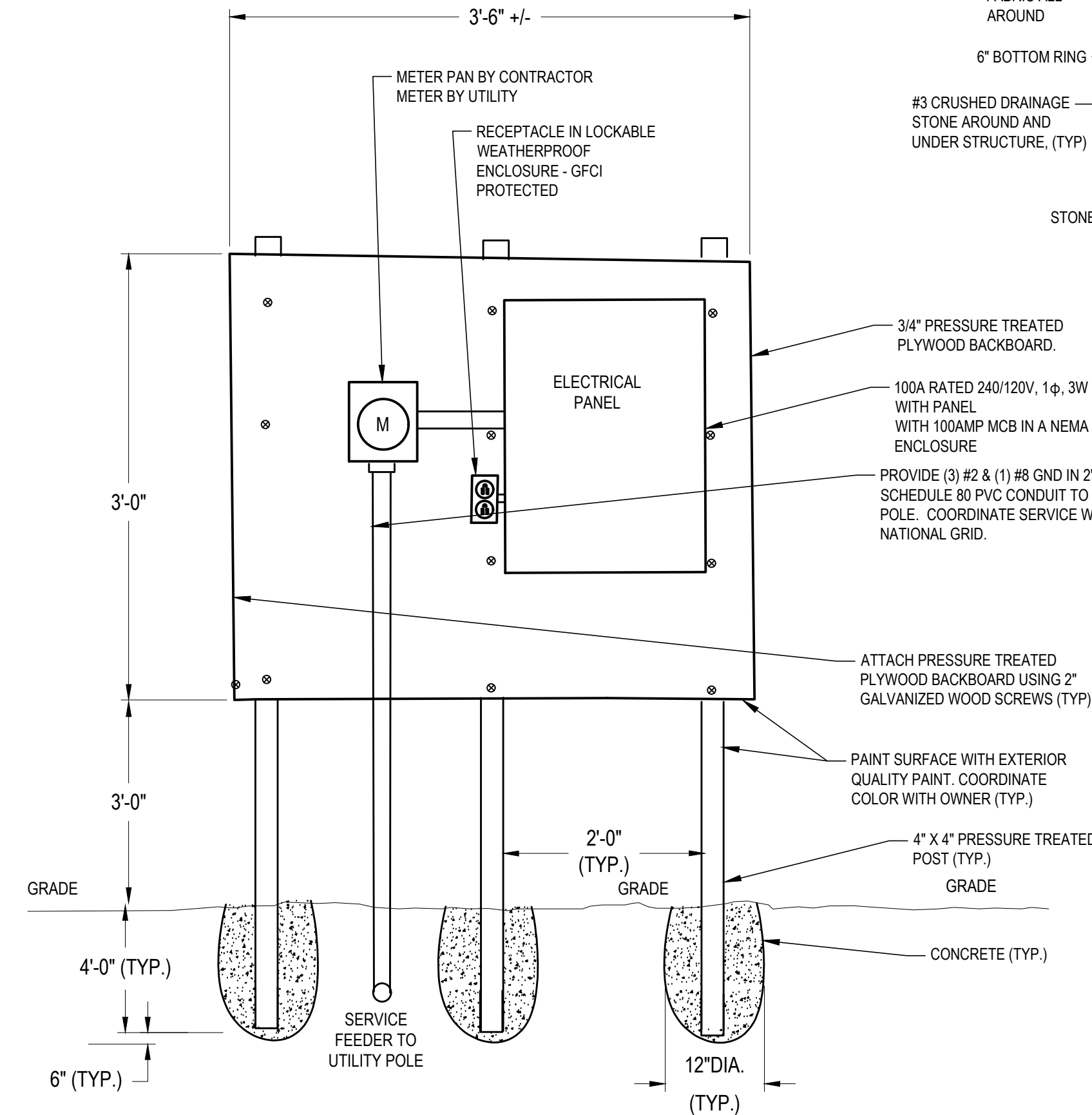


4 TYPICAL LIGHT POLE DETAIL

L-502 SCALE: NONE

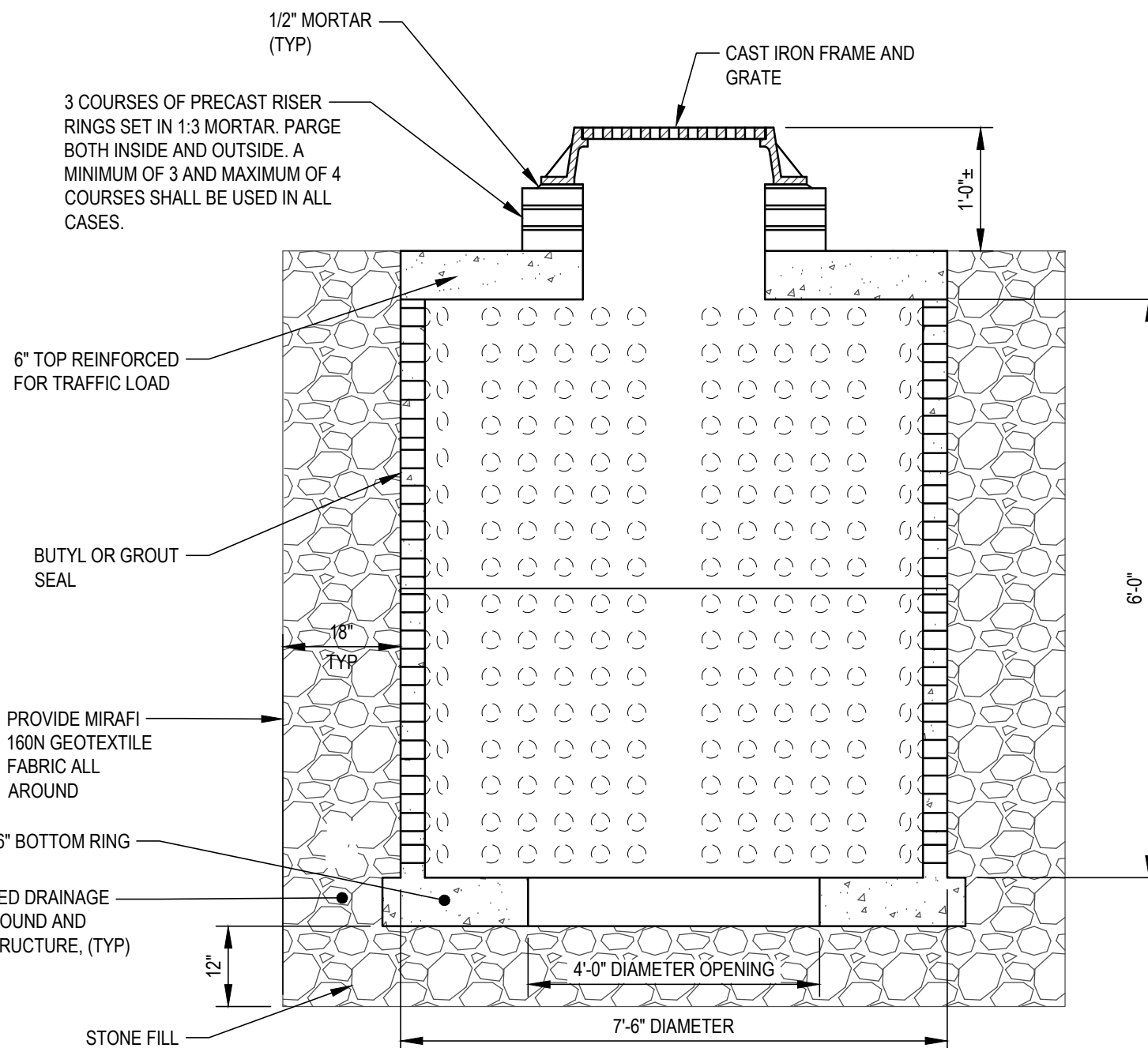


PRECAST POLE BASE



6 PEDESTAL SERVICE DETAIL

L-502 SCALE: NONE



5 PRECAST CONCRETE LEACH BASIN DETAIL

L-502 SCALE: NONE

Key Plan



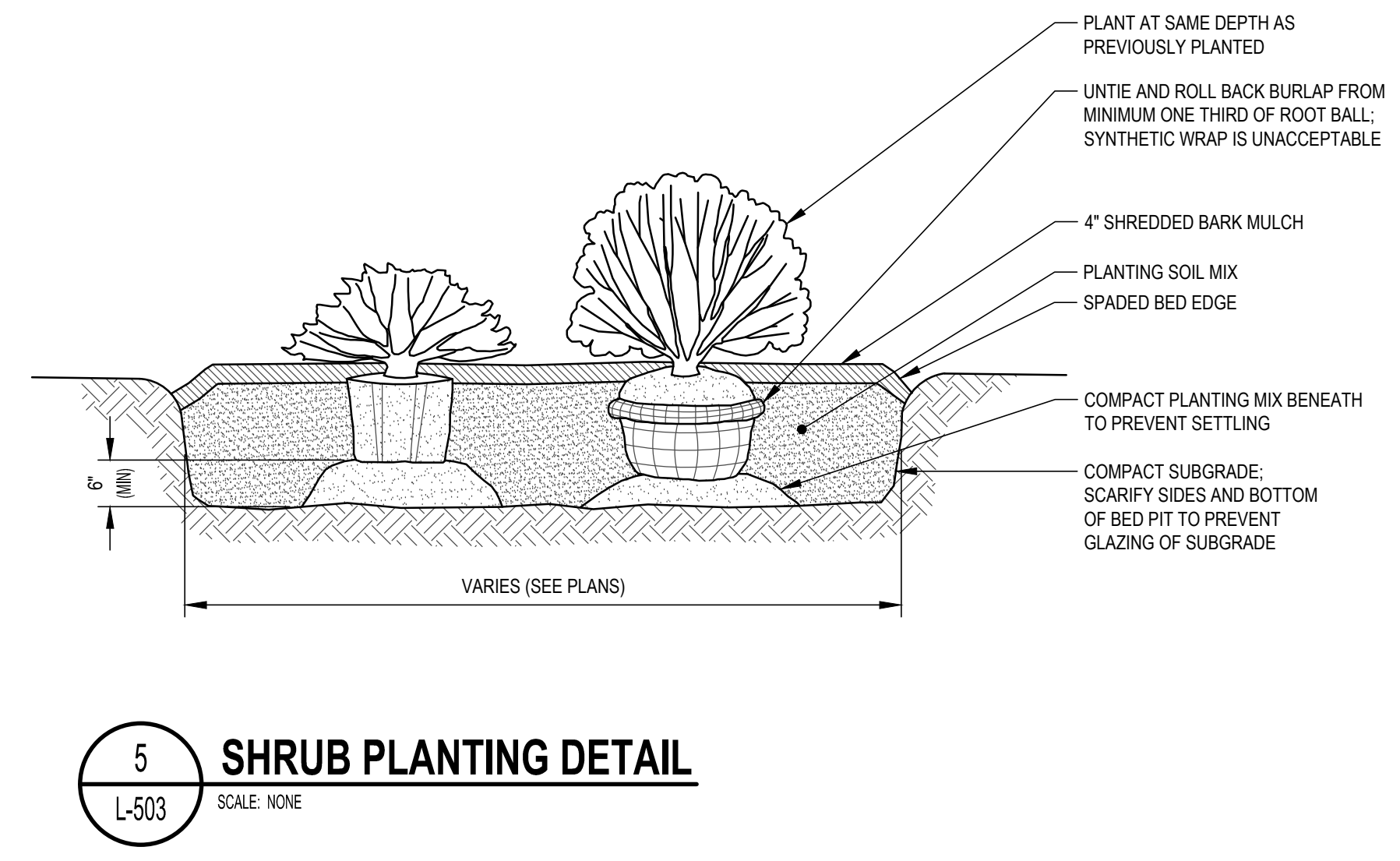
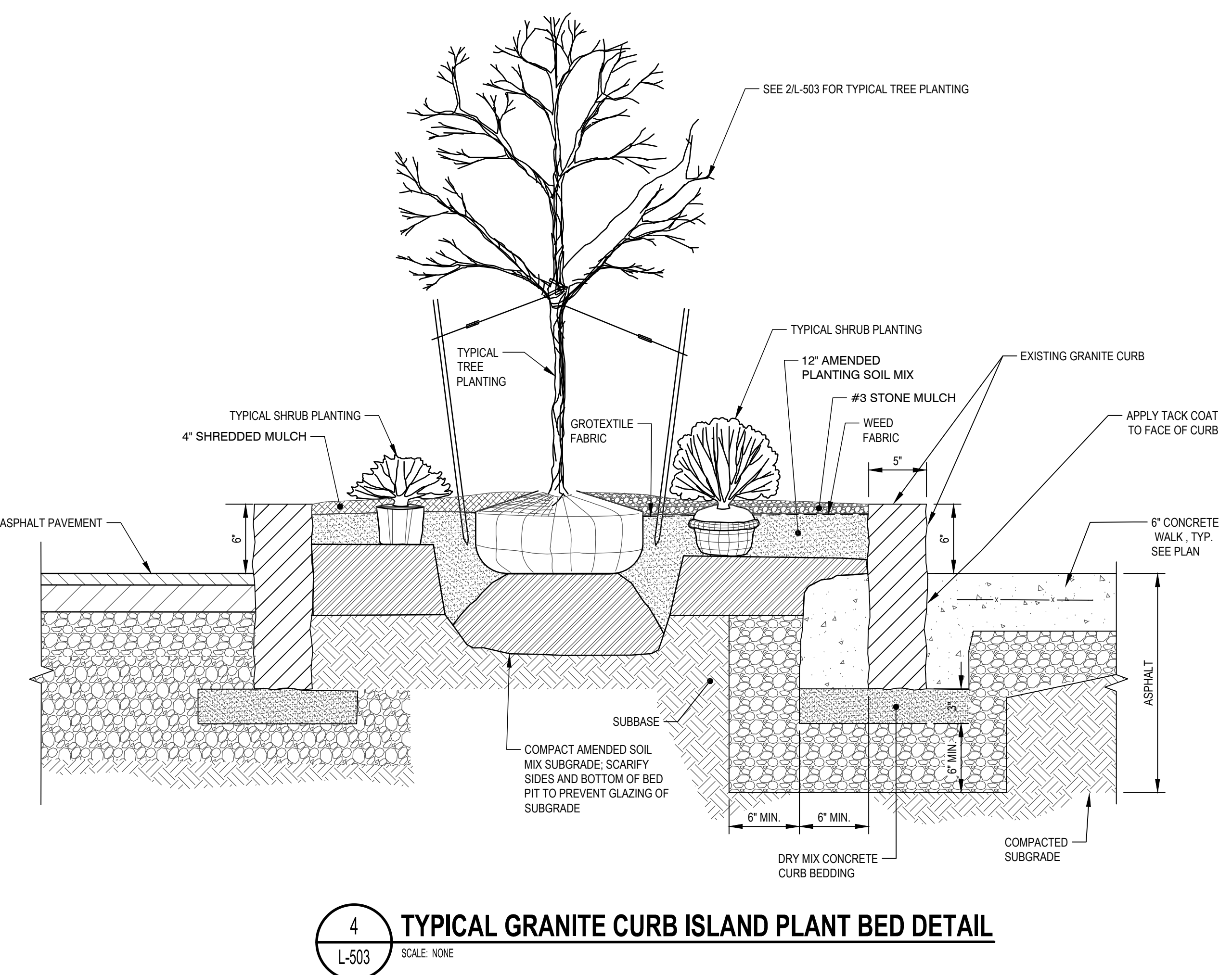
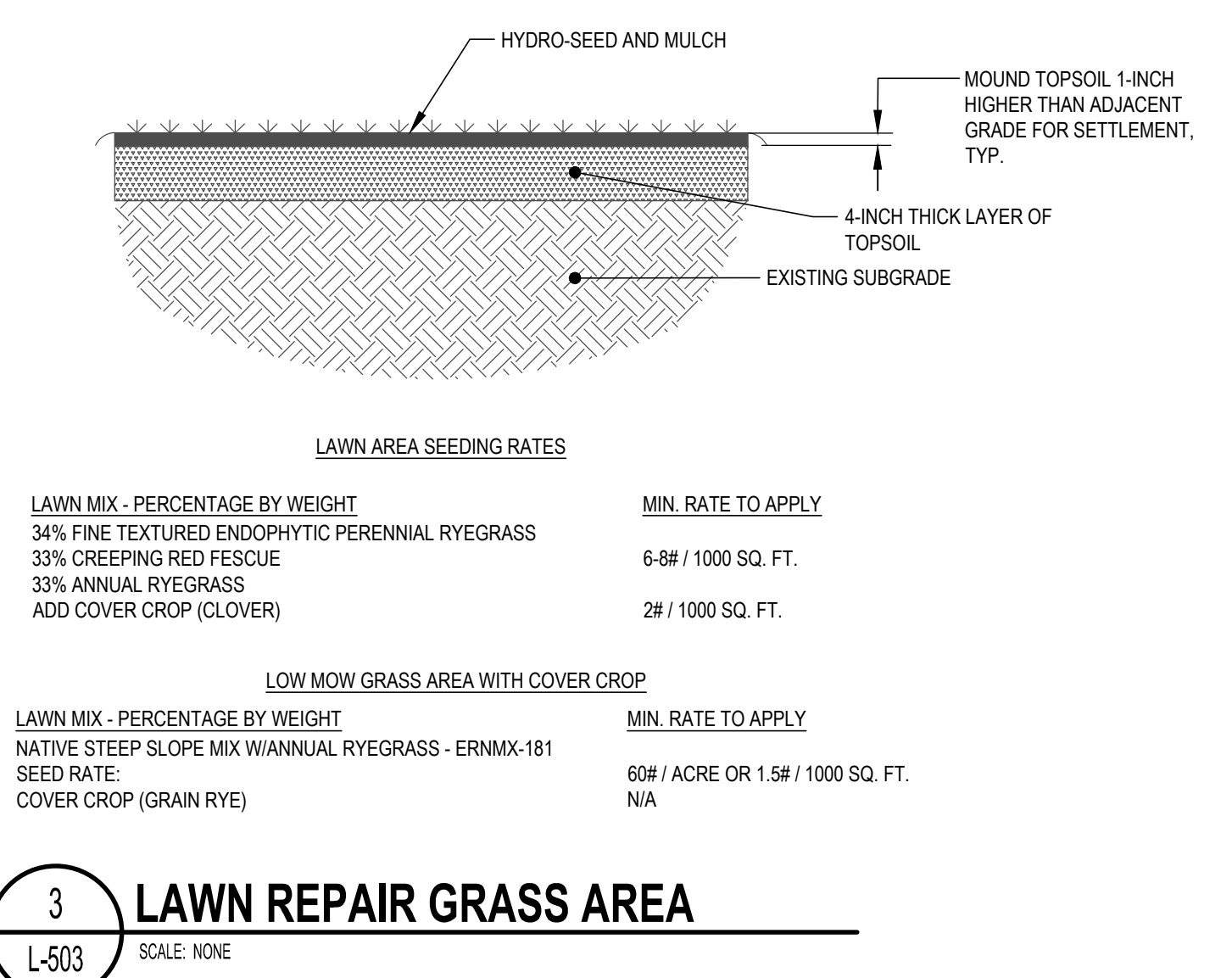
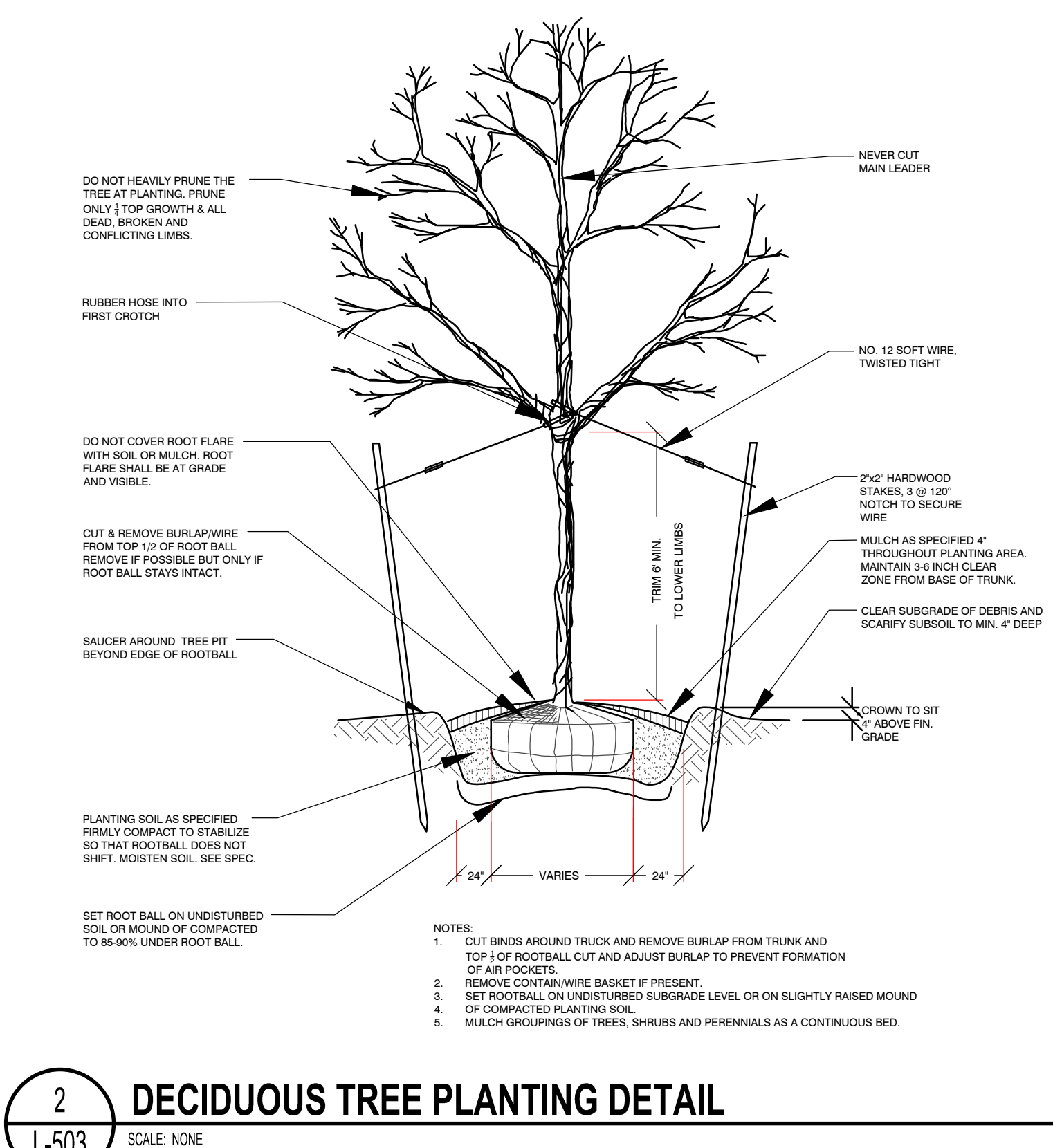
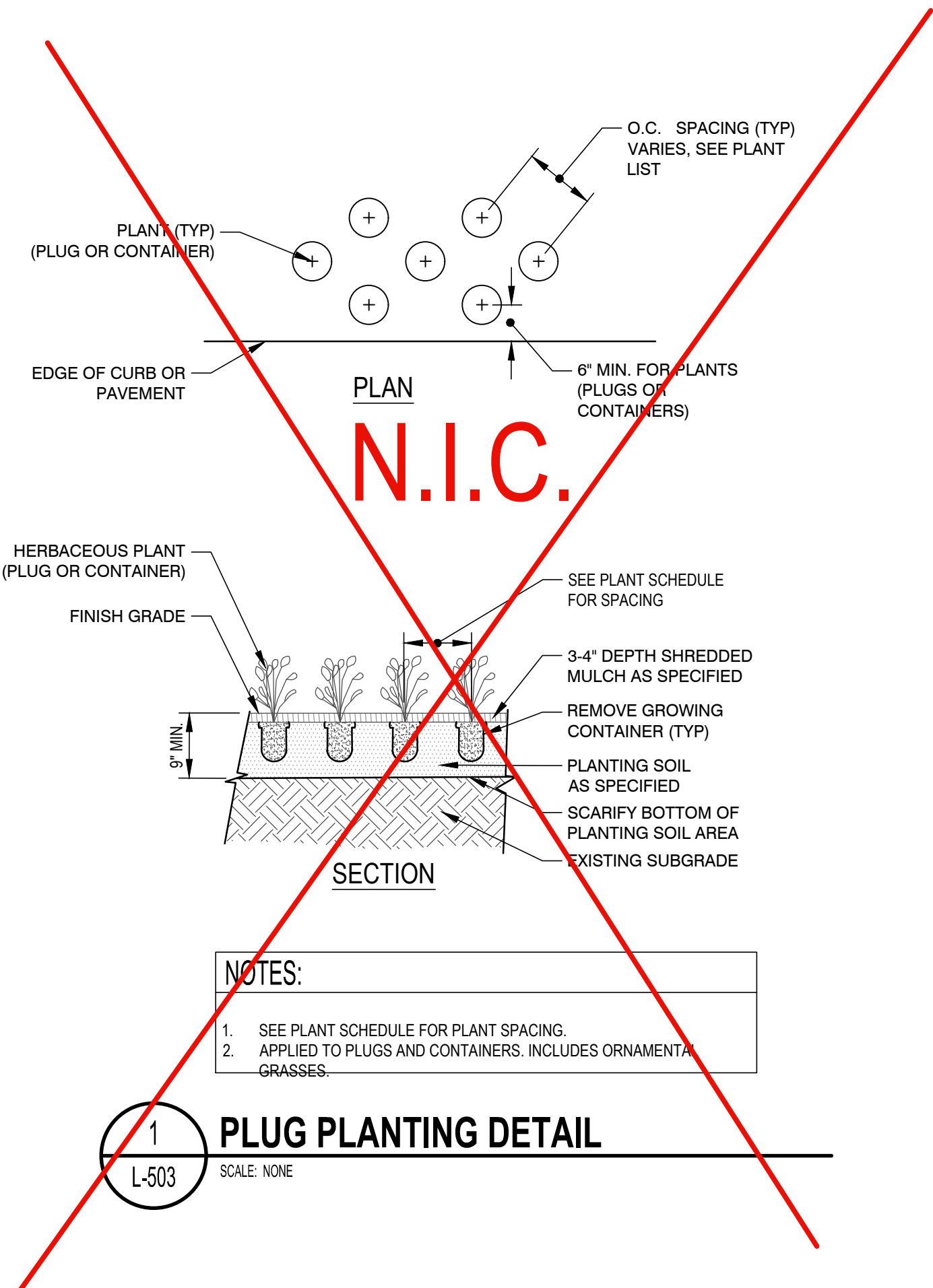
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Seal Phase 100% IFB
Project No. 2025.369.001
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Dsg By MM Ckd By MH

Drawing Title
UTILITY DETAILS

Drawing No.
L-502



Key Plan



No.	Revision	Date
Project Name		
CITY OF ROME		
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ROME, NEW YORK		

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Seal 	Phase	100% IFB
	Project No.	2025.369.001
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Dsg By	MM	Ckd By
		MH

Drawing Title
LANDSCAPING DETAILS

Drawing No.
L-503