CONFIDENTIAL CRITICAL ENERGY INFRASTRUCTURE INFORMATION (CEII) HAS BEEN REDACTED FROM THIS DOCUMENT

PSEG LONG ISLAND LLC

On Behalf of and as Agent for

the LONG ISLAND POWER AUTHORITY f/k/a LONG ISLAND LIGHTING COMPANY d/b/a LONG ISLAND POWER AUTHORITY

Commercial Avenue Equipment Project

Case 25-T-0243

Terminal

Environmental Management and Construction Plan

APPENDIX A

Plan & Profiles

DRAWING INDEX	
DRAWING #	DRAWING NAME
	COVER PAGE
F118514	DRAWING NOTES, INDEX NOTES, LEGEND
F118086	EROSION & SEDIMENT CONTROL NOTES
	PROPERTY OWNER INFORMATION
	AERIAL SITE PLAN
F114284	PLOT PLAN
F114285	BUS PLAN
F118082	REMOVAL PLAN
F118083	SITE PLAN
F118085	EROSION & SEDIMENT CONTROL PLAN
F118060	FOUNDATION PLAN
F114287	BUS ELEVATION
F118052	H FRAME FOUNDATION - '26A' SECTIONS, NOTES, AND DETAILS
F118057	AIR CORE REACTOR FOUNDATION '26B' PLAN, SECTIONS, AND DETAILS
F118058	UG/SA STRUCTURE AND GROUND SWITCH W/BUS SUPPORT - '26C' NOTES AND DETAILS
F118059	BUS SUPPORT PIER FOUNDATION -'26D' NOTES AND DETAILS
F118087	EROSION AND SEDIMENT CONTROL DETAILS
F118088	CIVIL DETAILS - SHEET 1/3
F118089	CIVIL DETAILS - SHEET 2/3
F118090	CIVIL DETAILS - SHEET 3/3
F118513	PROFILE VIEWS
	FACILITY EQUIPMENT MANUFACTURER-PROVIDED INFORMATION

SURVEY LEGEND:

Manholes

- Drainage (D)
- Electric (E)
- Fiber Optic (FO)
- Gas (G)
- Sanitary (S)
- Telephone (T)
- Unidentified (?)
- Water (W)

Utility Poles

- Metal Pole Base [B]
- Metal Pole with Light (L)
- Traffic Light (L)
- Pedestrian Signal (P)
- Wooden Utility Pole (U)
- Wooden Utility Pole with Light (U)

Miscellaneous

- Bike Rack
- Flag Pole ○FP
- Guardpost ○GP
- Guywire & Anchor
- Handicap Ramp
- Irrigation Box [I]
- Mailbox [MB]
- Sign - Single Post
- Sign - Double Post
- Sprinkler ○SPLR
- Standpipe
- Yard Light

Property Lines

- Leased Boundary
- Rail Boundary
- Right of Way ℄
- Property Boundary ℄
- Limits of Disturbance — LOD —

Fences

- Chain Link Fence — x — x —
- Guard Rail
- Metal Fence
- Vinyl Fence
- Wood Fence

Utility Hardware

- Cable TV Box [TV]
- Communications Box [COM]
- Electric Meter (E)M
- Electric Pullbox □EB
- Electric Vault [E]
- Fiber Optic Box [FO]
- Gas Marker ○GM
- Gas Valve - Main ◎
- Gas Valve - Service [G]
- Gas Vent ○G
- Hydrant
- Hydrant Valve (H)
- Monitoring Well (M)
- Riser - Cable TV ○TV
- Riser - Electric ○EL
- Riser - Telephone ○T
- Riser - Traffic ○TR
- Sewer Cleanout (CO)
- Sewer Vent ○S
- Telephone Pullbox [T]
- Traffic Control Cabinet [TC]
- Traffic Loop
- Traffic Pullbox [TR]
- Unidentified Pullbox [?]
- Unidentified Valve (V)
- Unidentified Vault [V]
- Water Meter (W)M
- Water Valve - Main (W)
- Water Valve - Service [W]

Vegetation

- Bush
- Stump
- Tree Located At Center 6"
- Hedge
- Treeline

Catch Basins

- Flush Grate
- Flush Grate w/ Curb Piece
- Round Grate

Abbreviations

Aban.	Abandoned
Asph.	Asphalt
Awn.	Awning
B. Blk.	Belgian Block
Brk.	Brick
Conc.	Concrete
D=90.6	Debris Elevation
DE	Dead End
EOI	End Of Information
FLD.	Utility Paint Found in Field
G=118.11	Grate Elevation
Inacc.	Inaccessible
INV. 96.82	Pipe Invert Elevation
O.H.	Overhang
R=124.24	Rim Elevation
Rec.	Record
Ret.	Retired
Typ.	Typical

Utilities

- CaTV — — — CATV — — —
- Communications — — — COMM— — —
- Electric —— — — E — — ——
- Fiber Optic —— — — FO— — ——
- Gas —— — — G — — ——
- Sanitary —— — — SS — — ——
- Storm —— — — ST — — ——
- Traffic —— — — TR — — ——
- Water —— — — W — — ——
- Unknown —— — — UNK— — ——
- Overhead Wires — — — — — — — —

Record

- CaTV —— CATV(REC) ——
- Communications —— COMM(REC)——
- Electric —— E(REC) ——
- Fiber Optic —— FO(REC)——
- Gas —— G(REC) ——
- Sanitary —— S(REC) ——
- Storm —— ST(REC)——
- Traffic —— TR(REC)——
- Water —— W(REC)——

NOTES:

1. THE PROPERTY LINES SHOWN IN THIS SET ARE BASED ON ACTUAL FIELD SURVEYS COMPLETED BY SAM-NY GEOSPATIAL INC. DATED MAY 2, 2024 AND OCTOBER 7, 2024 AND FROM DEEDS AND PLANS OF RECORD. OTHER FACILITIES MAY EXIST NOT DISCOVERED THROUGH THE RECORD CHECK. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES. CALL 811 BEFORE YOU DIG.
2. EXISTING CONDITIONS SHOWN ARE BASED ON PHOTOGRAMMETRY PERFORMED ON NOVEMBER 18, 2025, AUGUST 12, 2025, MARCH 13, 2024, MARCH 12, 2024, AND MARCH 8, 2022 AND SUPPLEMENTED BY AN ACTUAL ON-THE-GROUND INSTRUMENT SURVEY COMPLETED IN APRIL, 2024, OCTOBER, 2024, SEPTEMBER, 2025, AND JANUARY, 2026 BY SAM-NY GEOSPATIAL INC.
3. PIPE SYSTEM SHALL MAINTAIN A MINIMUM 42" DEPTH OF COVER FROM GRADE TO TOP OF THE PIPE.
4. PIPE SYSTEM SHALL MAINTAIN 1'-0" VERTICAL & HORIZONTAL MINIMUM CLEARANCE OVER/UNDER OR ADJACENT TO EXISTING UTILITIES UNLESS OTHERWISE SHOWN ON DRAWINGS.
5. CONDUIT SYSTEM AND SPLICE VAULT LOCATIONS ARE SUBJECT TO ADJUSTMENT DUE TO UNFORESEEN CONDITIONS. ENGINEER SHALL BE NOTIFIED IMMEDIATELY TO APPROVE ANY ADJUSTMENTS.
6. CONTRACTOR SHALL RETURN ALL AREAS DISTURBED BY CONSTRUCTION TO ORIGINAL, OR BETTER CONDITIONS.
7. ALL OPEN TRENCHES AND EXCAVATIONS SHALL BE PLATED AT THE COMPLETION OF EACH DAY'S WORK.
8. HORIZONTAL DATUM IS IN NAD83 NEW YORK STATE PLANE, LONG ISLAND, US FOOT.
9. VERTICAL DATUM IS NAVD88.
10. ASSUMED DEPTHS OF UNKNOWN UTILITIES:
    - WATER 5'
    - STORM AND SANITARY SEWER 3'
    - GAS 3'
    - ELECTRIC 3'
    - TELEPHONE 2.5'
    - TRAFFIC 3'
11. CONTRACTOR SHALL COORDINATE WITH PSEG LONG ISLAND ON RESTORATION TYPE AND LIMITS TO CONFORM TO INDIVIDUAL MUNICIPALITIES.
12. CONTRACTOR SHALL PROVIDE PAVEMENT RESTORATION TO MATCH OR IMPROVE, WITH INPUT FROM LOCAL AGENCY WITH JURISDICTION, OF ALL IMPACTED IMPERVIOUS SURFACES DURING CONSTRUCTION.
13. CONTRACTOR SHALL FOLLOW ALL ENVIRONMENTAL GUIDELINES REQUIRED BY THE STATE OF NEW YORK AND OR THE TOWN OF HEMPSTEAD. CONTRACTOR SHALL COORDINATE WITH PSEG LONG ISLAND ON EROSION CONTROL REQUIREMENTS AND METHODS.
14. CONSTRUCTION MEANS, METHODS, AND ASSOCIATED SAFETY PROCEDURES FOR THIRD-PARTY INFRASTRUCTURE WILL BE DETERMINED BY THE CIVIL CONTRACTOR AND COORDINATED AS REQUIRED DURING EXECUTION.
15. LIMITS OF DISTURBANCE EXTENDED BETWEEN PROPERTY LINES.
    TOTAL LIMITS OF DISTURBANCE = 2.42 ACRES
16. DEMOLITION OF EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO BUILDINGS, STRUCTURES, PAVEMENT, WELLS, SEPTIC, SANITARY SEWER, FENCES, TREES, ETC. SHALL BE PER THE DIRECTION OF ENGINEER AND SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

REFERENCE DRAWINGS:

F118082 --------- REMOVAL PLAN
F118083 --------- SITE PLAN
F118085 --------- EROSION & SEDIMENT CONTROL PLAN
F118086 --------- EROSION & SEDIMENT CONTROL NOTES
F118087 --------- EROSION & SEDIMENT CONTROL DETAILS
F118088 --------- CIVIL DETAILS SH. 1
F118089 --------- CIVIL DETAILS SH. 2
F118090 --------- CIVIL DETAILS SH. 3
F118513 --------- PROFILE VIEWS

APPROVED WITH CORRECTIONS AS NOTED
PSEG Long Island

THIS APPROVAL SHALL NOT RELIEVE THE CONTRACTOR FROM ENTIRE RESPONSIBILITY FOR DIMENSIONAL ACCURACY, CONFORMANCE WITH REFERENCED SPECIFICATIONS, CODES AND ALL LIABILITY UNDER CONTRACT.

PER: _____

DATE: _____

IT IS A VIOLATION OF THE PROFESSIONAL LICENSE LAW FOR ANY PERSON TO ALTER THIS DRAWING IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. THE ALTERING CONSULTANT SHALL AFFIX THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND DATE OF ALTERATION.

REV.	DATE	DESCRIPTION	DRAWN	REVIEW	APPR
B	05/01/2026	ISSUED FOR PERMITTING	KAV	VG	JR
A	02/20/2026	FOR BIDDING	KAV	VG	JR

Burns & McDonnell EGS
PROJ. NO. 178669

NO.	DATE	W.O.	DESCRIPTION	DWN BY	CKD BY	REVIEWED	APPD
0							

PROPERTY AND FACILITIES SHOWN ON THIS DRAWING WERE TRANSFERED TO Long Island Power Authority AS OF MAY 27, 1998

In accordance with NYS Education law 7208(3), LIPA and its service provider are exempt from certain engineering and surveyor requirements consistent with an exemption that exists with respect to investor-owned utilities subject to oversight of the Public Service commission.

TEMP. DWG. NO.

Long Island Power Authority
COMMERCIAL AVE
TOWN OF HEMPSTEAD; NEW YORK

DRAWING NOTES, INDEX NOTES, LEGEND

TERMINAL FACILITY

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

SCALE	VENDOR DWG. NO.
NTS	

DRAWING NO.	SMART NO.	REVISION
F118514	XX_XX-XX-XXXXX	0

SYSTEM GRID NUMBER	CABINET NO.	FOLDER NO.

GENERAL NOTES:

1. THE EROSION AND SEDIMENT (E&S) CONTROL PLAN IS ONLY INTENDED TO DESCRIBE THE E&S CONTROL TREATMENT FOR THIS SITE. SEE E&S CONTROL DETAILS AND CONSTRUCTION SEQUENCE. REFER TO SITE PLAN FOR GENERAL INFORMATION AND OTHER CONTRACT PLANS FOR APPROPRIATE INFORMATION.

2. CONSTRUCTION ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE GENERAL NOTES, SEQUENCE PROVIDED IN THE DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING BY THE OWNER, ENGINEER, AND APPROPRIATE REGULATORY AGENCY PRIOR TO IMPLEMENTATION.

3. THE E&S CONTROL MEASURES, CONSTRUCTION SEQUENCE AND PHASING IS THE MINIMUM REQUIRED. SUBCONTRACTOR SHALL INSTALL AND MAINTAIN ADDITIONAL MEASURES AND SEQUENCING AS REQUIRED BASED ON ACTUAL FIELD OPERATIONS AND CONDITIONS AND BE CONSISTENT WITH THE NEW YORK STORMWATER MANUAL. SIGNIFICANT ADDITIONS AND/OR MODIFICATIONS FROM THE PLANS SHALL BE SUBMITTED, REVIEWED AND APPROVED BY THE OWNER, ENGINEER AND APPLICABLE REGULATORY AGENCIES.

4. APPROPRIATE E&S CONTROL MEASURES AS DESCRIBED HEREIN, SHALL BE INSTALLED BY THE SUBCONTRACTOR PRIOR TO THE COMMENCEMENT OF ALL CLEARING, DEMOLITION AND CONSTRUCTION ACTIVITY WITHIN THE APPROVED LIMITS OF DISTURBANCE. SCHEDULE WORK TO MINIMIZE THE LENGTH OF TIME THAT BARE SOIL WILL BE EXPOSED. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION.

5. THE SUBCONTRACTOR SHALL INSTALL ALL SPECIFIED E&S CONTROL MEASURES AND WILL BE REQUIRED TO MAINTAIN THEM IN THEIR INTENDED FUNCTIONING CONDITION AND BE IN STRICT CONFORMANCE WITH THE STANDARDS BELOW. THE SUBCONTRACTOR SHALL SUPPLY AND MAINTAIN THESE STANDARDS AND HAVE THEM AVAILABLE ONSITE FOR THE DURATION OF CONSTRUCTION. THE OWNER, AGENTS OF THE REGULATORY AGENCIES AND/OR ENGINEER SHALL HAVE THE AUTHORITY TO REQUIRE SUPPLEMENTAL MAINTENANCE OR ADDITIONAL MEASURES IF FIELD CONDITIONS ARE ENCOUNTERED BEYOND WHAT WOULD NORMALLY BE ANTICIPATED.

A. NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (THE "BLUE BOOK").

6. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE SUBCONTRACTOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.

7. A SUPPLY OF EROSION CONTROL MATERIAL (STRAW BALES, SILT FENCE, JUTE MESH,RIP RAP ETC.) SHALL BE KEPT ON-SITE FOR MAINTENANCE AND EMERGENCY REPAIRS.

8. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED AT THE START OF CONSTRUCTION AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION. THE LOCATION OF THE TRACKING PADS MAY CHANGE AS VARIOUS PHASES OF CONSTRUCTION ARE COMPLETED.

9. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE IN FINAL LANDSCAPING. ALL EARTH STOCKPILES SHALL HAVE STRAW BALES OR SILT FENCE AROUND THEIR LIMIT. ANY PILE TO REMAIN IN PLACE FOR MORE THAN 2 MONTHS SHALL BE TEMPORARILY SEEDED.

10. COMPLY WITH REQUIREMENTS OF THE SPDES GP 0-20-001 FOR INSPECTIONS AND RECORD KEEPING.

11. VISUAL SITE INSPECTIONS SHALL BE CONDUCTED WEEKLY BY QUALIFIED PERSONNEL, TRAINED AND EXPERIENCED IN E&S CONTROL, TO ASCERTAIN THAT THE E&S CONTROL BMPS ARE OPERATIONAL AND EFFECTIVE IN PREVENTING POLLUTION. PROVIDE WRITTEN REPORTS IN ACCORDANCE WITH ANY APPLICABLE OWNER, ENGINEER, AND/OR REGULATORY AGENCY REQUIREMENTS.

12. STOCKPILES OF EARTH MATERIALS SHALL CONFORM TO SOIL STOCKPILE PRACTICES OF THE BLUE BOOK.

13. DEWATERING SUMP PITS SHALL BE INSTALLED WHEN WATER COLLECTS DURING EXCAVATION TO TRAP AND FILTER WATER FOR PUMPING INTO A SUITABLE DISCHARGE AREA.

14. WATER SHALL BE USED FOR DUST CONTROL IN APPROPRIATE AREAS.

15. ALL REGULATORY AGENCY PERMITS REQUIRED FOR THE SITE SHALL BE OBTAINED PRIOR TO SITE WORK COMMENCES.

16. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP.

17. MAXIMUM SLOPES SHALL NOT EXCEED 3-FT HORIZONTAL TO 1-FT VERTICAL (3:1), UNLESS OTHERWISE NOTED.

18. THE SUBCONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AFFECTED AREAS AT ALL TIMES.

19. TEMPORARY AND PERMANENT SEEDING SHALL BE IN ACCORDANCE WITH THE BLUE BOOK.

20. ANY CLEARED AND EXCAVATED MATERIALS WHICH ARE SUSPECTED OF BEING ENVIRONMENTALLY POLLUTED, CONTAMINATED, OR IMPACTED SHALL BE STOCKPILED ON-SITE ON TOP OF POLYETHYLENE SHEETING AND COVERED WITH POLYETHYLENE SHEETING. THE OWNER AND ENGINEER SHALL BE IMMEDIATELY INFORMED UPON ENCOUNTERING THIS MATERIAL. STORAGE, TESTING, TREATMENT, REMOVAL, AND DISPOSAL OF ENVIRONMENTALLY POLLUTED, CONTAMINATED, OR IMPACTED MATERIAL SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

WINTER CONSTRUCTION NOTES:

1. WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED AS SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.

2. TEMPORARY MULCH SHALL BE APPLIED WITHIN 7 DAYS OF SOIL EXPOSURE OR PRIOR TO ANY STORM EVENT, BUT AFTER EVERY WORKDAY IN AREAS WITHIN 100 FEET FROM A PROTECTED NATURAL RESOURCE.

3. AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE SHALL BE PERMANENTLY MULCHED THE SAME DAY.

4. IN THE EVENT OF A SNOWFALL GREATER THAN 1 INCH (FRESH OR CUMULATIVE), THE SNOW SHALL BE REMOVED FROM THE AREAS DUE TO BE SEEDED AND MULCHED.

5. LOAM SHALL BE FREE OF FROZEN CLUMPS BEFORE IT IS APPLIED.

6. A DITCH THAT WILL BE CONSTRUCTED DURING THE WINTER MUST BE STABILIZED WITH RIPRAP.

7. PERMANENT STABILIZATION CONSISTS OF AT LEAST 85% VEGETATION, PAVEMENT/GRAVEL BASE OR RIPRAP.

8. DO NOT EXPOSE SLOPES OR LEAVE SLOPES EXPOSED OVER THE WINTER OR FOR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS FULLY PROTECTED WITH MULCH AND E&S CONTROLS.

9. APPLY STRAW MULCH AT TWICE THE STANDARD RATE (150 LBS. PER 1,000 SF). THE MULCH MUST BE THICK ENOUGH SUCH THAT THE GROUND SURFACE WILL NOT BE VISIBLE AND MUST BE ANCHORED.

10. USE MULCH AND MULCH NETTING OR AN EROSION CONTROL MULCH BLANKET OR MIX FOR ALL SLOPES GREATER THAN 8% OR OTHER AREAS EXPOSED TO DIRECT WIND.

11. INSTALL AN EROSION CONTROL BLANKET IN ALL DRAINAGE WAYS (BOTTOM AND SIDES) WITH A SLOPE GREATER THAN 3%.

12. SEE THE STORMWATER POLLUTION PREVENTION PLAN PROVIDED AS APPENDIX B OF THE TERMINAL EM&CP FOR MORE INFORMATION ON SEEDING DATES AND TYPES.

CONSTRUCTION SEQUENCE:

THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED (COORDINATE ALL SITE ACTIVITIES AND CONSTRUCTION SEQUENCE WITH THAT OF THE STATION ELECTRICAL EQUIPMENT, OVERHEAD TRANSMISSION LINES, AND OTHER STATION RELATED CONSTRUCTION):

1. CONTACT THE OWNER, CONTRACTOR, AND REGULATORY AGENT AT LEAST FIVE DAYS PRIOR TO COMMENCEMENT OF ANY DEMOLITION, CONSTRUCTION OR REGULATED ACTIVITY ON THIS PROJECT SITE.

2. THE EDGES OF THE PROJECT R.O.W., ACCESS ROADS, WORK PADS AND PULLING PADS, CLEARING LIMITS AND ENVIRONMENTAL SENSITIVE AREAS SHALL BE FLAGGED AT LEAST 14 DAYS PRIOR TO THE START OF WORK ON THE SITE. INSTALL PERIMETER E&S CONTROL MEASURES.

3. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES/EXITS AND INSTALL INLET PROTECTION FOR CATCH BASINS OR INSTALL SILT SACKS ON CATCH BASIN INLETS LOCATED IN OFF-SITE ROADS. INSTALL SILT FENCE AND OTHER E&S CONTROL MEASURES INDICATED ON THESE PLANS AT PERIMETER OF PROPOSED SITE DISTURBANCE AND INSTALL ALL E&S CONTROL MEASURES INDICATED ON THESE PLANS AS POSSIBLE.

4. CONSTRUCTION STAKING OF ALL FOUNDATION CORNERS, UTILITIES, ACCESS DRIVES, FENCES AND OTHER SITE APPURTENANCES.

5. ROUGH GRADING AND FILLING OF SUBGRADES AND SLOPES.

6. CONSTRUCT PAD SUBGRADE PREPARATION AND BEGIN FOUNDATION CONSTRUCTION.

7. THROUGHOUT CONSTRUCTION SEQUENCE, REMOVE SEDIMENT FROM BEHIND SILT FENCES, STRAW BALES AND OTHER E&S CONTROL MEASURES, AND FROM SEDIMENT TRAPS AS REQUIRED. REMOVAL SHALL BE ON A PERIODIC BASIS. INSPECTION OF E&S CONTROL MEASURES SHALL BE ON A WEEKLY BASIS. SEDIMENT COLLECTED SHALL BE DEPOSITED AND SPREAD EVENLY UPLAND ON SLOPES DURING CONSTRUCTION.

8. COMPLETE GRADING TO SUBGRADES AND COMPLETE CONSTRUCTION OF FOUNDATIONS.

9. CONDUCT FINE GRADING.

10. INSTALL GROUNDING GRID.

11. CONSTRUCT PAVED ACCESS ROAD.

12. INSTALL YARD STONE. FINAL FINE GRADING OF SLOPE AND OTHER DISTURBED AREAS.

13. CLEAN STORM DRAINAGE PIPE SYSTEMS OF DEBRIS AND SEDIMENT.

14. UPON DIRECTION OF THE OWNER, ENGINEER, AND REGULATORY AGENT, E&S CONTROL MEASURES SHALL BE REMOVED FOLLOWING STABILIZATION OF THE SITE.

FILLING OPERATIONS:

1. PRIOR TO FILLING, ALL E&S CONTROL MEASURES SHALL BE PROPERLY IMPLEMENTED, MAINTAINED AND FULLY INSTALLED, AS DIRECTED BY THE ENGINEER AND AS SHOWN ON THIS PLAN.

PLACEMENT OF DRAINAGE STRUCTURES, UTILITIES, AND FOUNDATION CONSTRUCTION OPERATIONS:

1. SILT FENCES OR FILTER SOCKS SHALL BE INSTALLED AT THE DOWNHILL SIDES OF EXCAVATIONS, MUD PUMP DISCHARGES, AND UTILITY TRENCH MATERIAL STOCKPILES. STRAW BALES MAY BE USED IF SHOWN ON THE E&S CONTROL PLANS OR IF DIRECTED BY THE CIVIL ENGINEER.

FINAL GRADING AND PAVING OPERATIONS:

1. ALL INLET AND OUTLET PROTECTION SHALL BE PLACED AND MAINTAINED AS SHOWN ON E&S CONTROL PLANS AND DETAILS, AND AS DESCRIBED IN SPECIFICATIONS AND AS DESCRIBED HEREIN.

2. SUB-BASE AND BASE COURSES SHALL BE INSTALLED OVER AREAS TO BE GRAVEL PAVED AS SOON AS FINAL SUB-GRADES ARE ESTABLISHED AND UNDERGROUND UTILITIES AND STORM DRAINAGE SYSTEMS HAVE BEEN INSTALLED.

3. TOPSOIL, FINAL SEED, MULCH AREAS NOT RECEIVING GRAVEL SURFACE, REMOVE ALL TEMPORARY E&S CONTROL MEASURES ONLY AFTER ALL AREAS HAVE BEEN STABILIZED AND/OR GRASS HAS BEEN WELL ESTABLISHED AND THE SITE HAS BEEN INSPECTED AND APPROVED BY THE OWNER AND THE APPLICABLE REGULATORY AGENCIES.

4. MAINTAIN ALL PERMANENT AND TEMPORARY E&S CONTROL MEASURES IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. UPON FINAL STABILIZATION, REMOVE ALL TEMPORARY E&S CONTROL MEASURES.

REFERENCE DRAWINGS:

F118082 ---------- REMOVAL PLAN
F118083 ---------- SITE PLAN
F118085 ---------- EROSION & SEDIMENT CONTROL PLAN
F118087 ---------- EROSION & SEDIMENT CONTROL DETAILS
F118088 ---------- CIVIL DETAILS SH. 1
F118089 ---------- CIVIL DETAILS SH. 2
F118090 ---------- CIVIL DETAILS SH. 3
F118513 ---------- PROFILE VIEWS

REV	DATE	DESCRIPTION	DRAWN	REVIEW	APPR
B	05/01/2026	ISSUED FOR PERMITTING	KAV	VG	JR
A	02/20/2026	FOR BIDDING	KAV	VG	JR

Burns & McDonnell EGS
PROJ. NO. 178669

NO.	DATE	W.O.	DESCRIPTION	DWN BY	CKD BY	REVIEWED	APPD
0							

ISSUE

PROPERTY AND FACILITIES SHOWN ON THIS DRAWING WERE TRANSFERED TO Long Island Power Authority AS OF MAY 27, 1998

In accordance with NYS Education law 7208(3), LIPA and its service provider are exempt from certain engineering and surveyor requirements consistent with an exemption that exists with respect to investor-owned utilities subject to oversight of the Public Service commission.

TEMP. DWG. NO.

Long Island Power Authority
COMMERCIAL AVE
TOWN OF HEMPSTEAD; NEW YORK

EROSION & SEDIMENT CONTROL NOTES

TERMINAL FACILITY

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

SCALE	VENDOR DWG. NO.
AS NOTED	

DRAWING NO.	SMART NO.	REVISION
F118086	XX_XX-XX-XXXXX	0

SYSTEM GRID NUMBER	CABINET NO.	FOLDER NO.

Commercial Avenue

Terminal Property Abutters List

Parcel Address	City	State	Zip Code
99 COMMERCIAL AVE	GARDEN CITY	NY	11530-6417
650 COMMERCIAL AVE	GARDEN CITY	NY	11530-6418
700 COMMERCIAL AVE	GARDEN CITY	NY	11530-6410
100 QUENTIN ROOSEVELT BLVD STE 516	GARDEN CITY	NY	11530-4843

NOTES

1. See Appendix K for invasive species details.
2. Features not present within this extent:
   a. Trails
   b. Airfields
   c. Hedgerows
   d. Surface waters
   e. Wetlands or streams
   f. Other water bodies
   g. Significant & unique habitats
   h. Cultural resources
   i. Major antennas
   j. Oil, gas, or potable water wells
   k. Residences

Town of Hempstead

Commercial Avenue Terminal parcel to be used for equipment parking, staging, access, and lay-down. Existing gravel and asphalt to be removed. Parcel to be graveled as part of construction activities.

N/F County of Nassau

Long Island Rail Road

Terminal Equipment (See Sheet F118083)

Terminal Equipment (See Sheet F118083)

Terminal Equipment (See Sheet F118083)

99 Commercial Avenue N/F Dengo Inc.

Commercial Avenue

100 Quentin Roosevelt Blvd Ste 516 N/F County of Nassau

Quentin Roosevelt Boulevard

Approximate Property Line

700 Commercial Avenue N/F County of Nassau

Purex-Mitchell Field

650 Commercial Avenue N/F County of Nassau

Bond Street

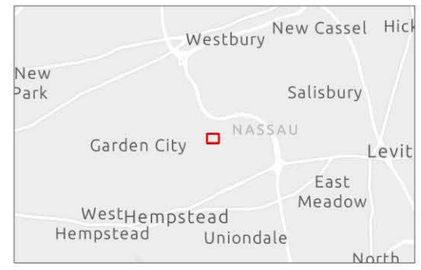
NORTH

0 200 400 Feet

LEGEND

- Commercial Avenue Terminal Parcel
- Other Parcel Lines
- Terminal LOD
- Terminal Equipment
- Proposed Drainage
- Existing Fence To Be Removed
- Existing Fence To Remain
- Proposed Fence
- Vegetation Removal (Estimated Invasive Species)
- Vegetation Removal (Invasive Species)
- Vegetation Removal (Invasive Species)
- Construction Entrance
- Construction Parking
- NYSDEC Remediation Boundaries

Sources:
1. Project details prepared by Burns & McDonnell, April, 2026
2. NYS GIS Data Clearinghouse
3. Nearmap US Vertical Imagery - acquired October 1, 2025



PROJECT TITLE

PSEG LONG ISLAND

Commercial Avenue Equipment Project

SHEET TITLE

Figure A-1
Terminal EM&CP
Aerial Site Plan

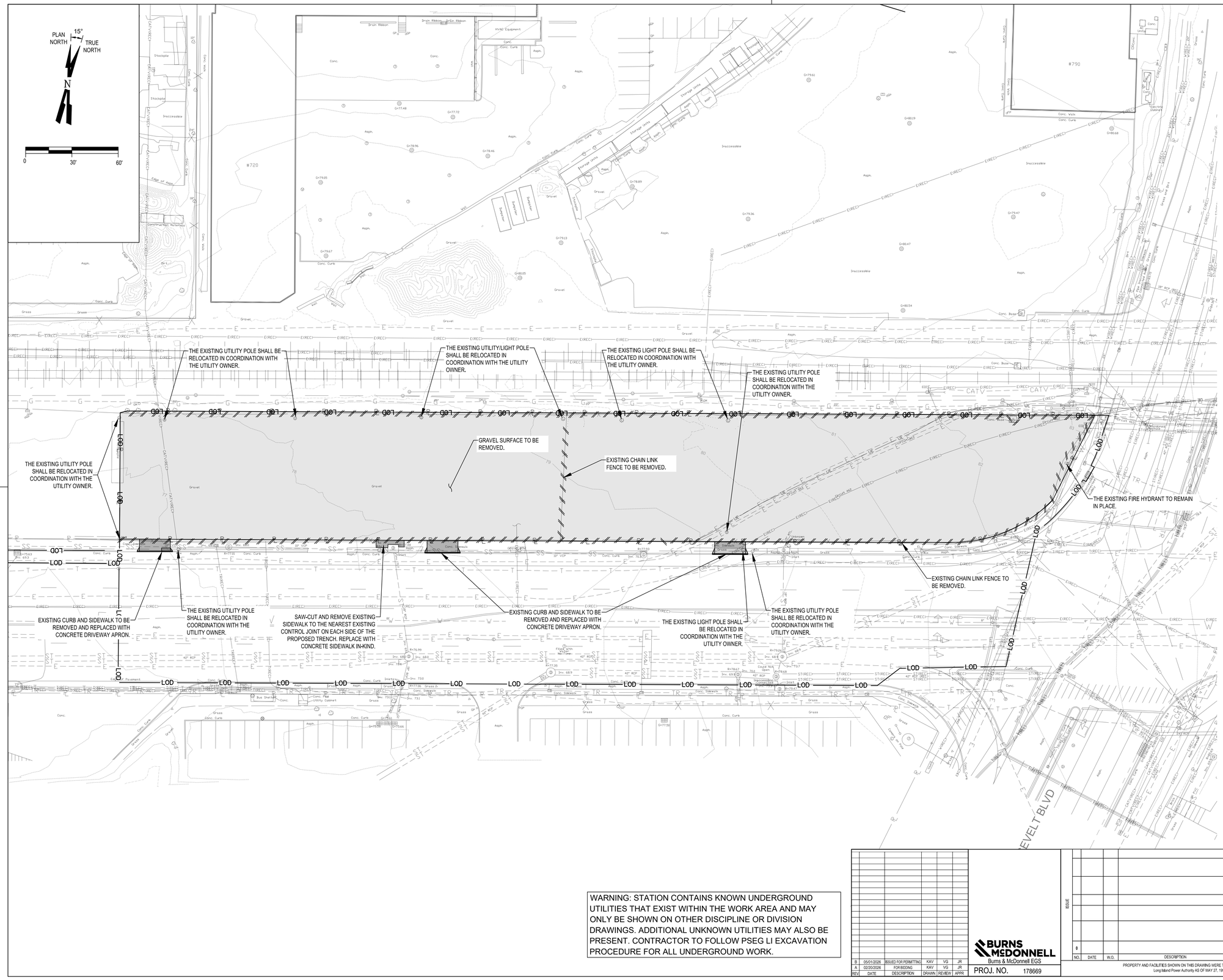
SCALE 1" = 100' (Printed on 11"x17")

DATE	04/16/2026
DRN. BY	MK
CHK. BY	MK
FIGURE NO.	A-1

BURNS McDONNELL

CONFIDENTIAL CRITICAL ENERGY INFRASTRUCTURE INFORMATION (CEII) HAS BEEN REDACTED FROM THIS DOCUMENT

CONFIDENTIAL CRITICAL ENERGY INFRASTRUCTURE INFORMATION (CEII) HAS BEEN REDACTED FROM THIS DOCUMENT



NOTES:

1. HORIZONTAL DATUM: NEW YORK STATE PLANE COORDINATES SYSTEM (LONG ISLAND ZONE) NAD83 (FT). VERTICAL DATUM: NAVD88 (FT).
2. DEMOLITION OF EXISTING FEATURES SHALL BE COORDINATED WITH OWNERS, AND SHALL OCCUR IN ACCORDANCE WITH PSE&G LONG ISLAND AND NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION REGULATIONS.
3. ANY PAVEMENT TO BE REMOVED ADJACENT TO PAVEMENT THAT IS TO REMAIN WILL BE SAWCUT.
4. THERE SHALL BE NO ONSITE BURIAL OF CONSTRUCTION DEBRIS. ALL MATERIAL SHALL BE DISPOSED OF IN AN OFFSITE LANDFILL/RECYCLING CENTER IN ACCORDANCE WITH ALL APPLICABLE LOCAL, COUNTY, STATE AND FEDERAL REGULATIONS.
5. SEE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY PROPOSED ELECTRICAL EQUIPMENT, STRUCTURES, FOUNDATIONS, ETC.
6. THIS DRAWING IS NOT ALL INCLUSIVE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO NEW CONSTRUCTION. INFORM ENGINEER OF DISCREPANCIES.
7. REMOVE ANY TREES AND VEGETATION WITHIN 5 FEET OF RETAINING WALL AND FENCE EXTENTS.
8. ALL WASTE MATERIAL AND/OR SOIL TO BE HAULED OFF SITE SHALL BE TESTED FOR CONTAMINANTS AND HAZARDOUS REQUIREMENTS PRIOR TO DISPOSAL.

LEGEND:

- REMOVAL
- PROPERTY LINE
- CURB REMOVAL
- FENCE AND UTILITY REMOVAL
- CONCRETE SURFACE REMOVAL
- GRAVEL SURFACE REMOVAL
- ASPHALT SURFACE REMOVAL
- GRASS SURFACE REMOVAL
- LOD — LIMITS OF DISTURBANCE

REFERENCE DRAWINGS:

F118083	SITE PLAN
F118085	EROSION & SEDIMENT CONTROL PLAN
F118086	EROSION & SEDIMENT CONTROL NOTES
F118087	EROSION & SEDIMENT CONTROL DETAILS
F118088	CIVIL DETAILS SH. 1
F118089	CIVIL DETAILS SH. 2
F118090	CIVIL DETAILS SH. 3
F118513	PROFILE VIEWS

WARNING: STATION CONTAINS KNOWN UNDERGROUND UTILITIES THAT EXIST WITHIN THE WORK AREA AND MAY ONLY BE SHOWN ON OTHER DISCIPLINE OR DIVISION DRAWINGS. ADDITIONAL UNKNOWN UTILITIES MAY ALSO BE PRESENT. CONTRACTOR TO FOLLOW PSEG LI EXCAVATION PROCEDURE FOR ALL UNDERGROUND WORK.

REV	DATE	DESCRIPTION	DRAWN	REVIEW	APPR
B	05/01/2026	ISSUED FOR PERMITTING	KAV	VG	JR
A	02/20/2026	FOR BIDDING	KAV	VG	JR

BURNS McDONNELL
Burns & McDonnell EGS
PROJ. NO. 178669

NO.	DATE	W.O.	DESCRIPTION	DWN BY	CKD BY	REVIEWED	APPD
0							

ISSUE

PROPERTY AND FACILITIES SHOWN ON THIS DRAWING WERE TRANSFERED TO Long Island Power Authority AS OF MAY 27, 1998

In accordance with NYS Education law 7208(3), EIPA and its service provider are exempt from certain engineering and surveyor requirements consistent with an exemption that exists with respect to investor-owned utilities subject to oversight of the Public Service commission.

TEMP. DWG. NO.

Long Island Power Authority
COMMERCIAL AVE
TOWN OF HEMPSTEAD; NEW YORK

REMOVAL PLAN

TERMINAL FACILITY

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

SCALE 1" = 30'

VENDOR DWG. NO.

DRAWING NO. F118082

SMART NO. XX_XX-XX-XXXXX

REVISION 0

SYSTEM GRID NUMBER

CABINET NO.

FOLDER NO.

CONFIDENTIAL CRITICAL ENERGY INFRASTRUCTURE INFORMATION (CEII) HAS BEEN REDACTED FROM THIS DOCUMENT

CONFIDENTIAL CRITICAL ENERGY INFRASTRUCTURE INFORMATION (CEII) HAS BEEN REDACTED FROM THIS DOCUMENT

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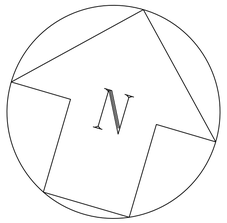
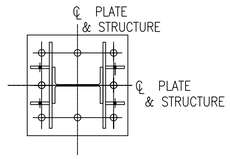
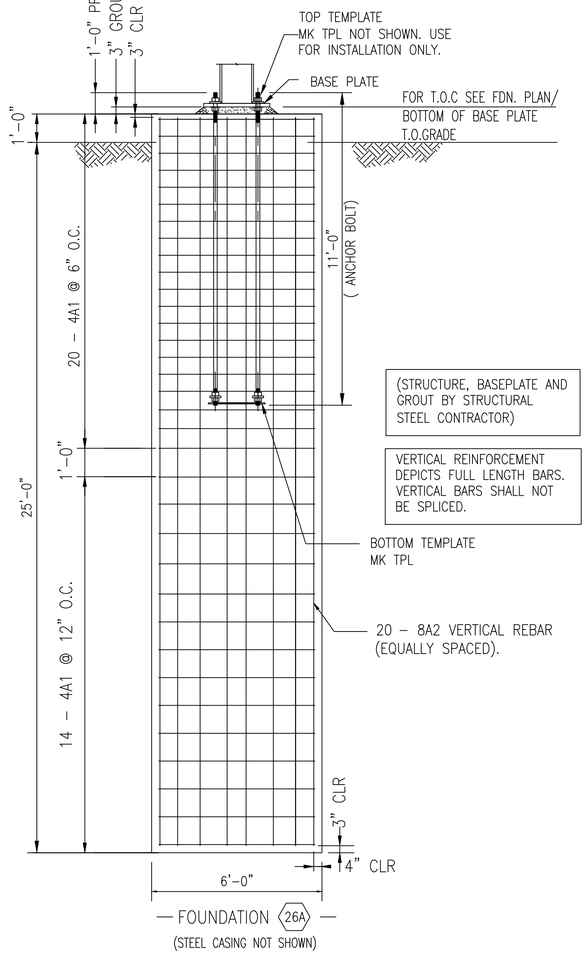
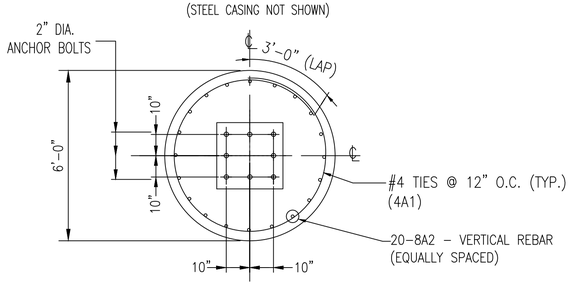




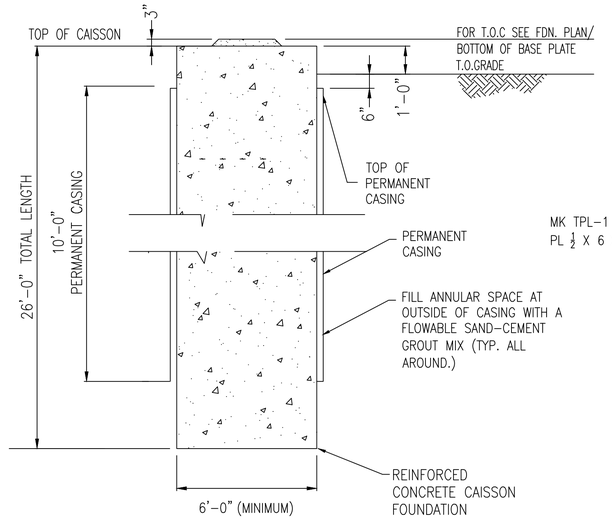
BASE PLATE ASSEMBLY

FOUNDATION SCHEDULE											
FOUNDATION DESIGNATION	STRUCTURE HEIGHT	APPLIED DESIGN LOADS*			ANCHOR BOLT PATTERN	NO. OF ANCHOR BOLTS	ANCHOR BOLT DIAMETER	APPROX. WEIGHT REBAR CAGE	CAISSON DIAMETER	CALC. FDN. DEPTH	VOL. OF CONCRETE
		AXIAL	SHEAR	MOMENT							
26A	-	–	–	–	IN–LINE	8	2"	–	6 FT.	25 FT.	27.3 CY





THREADED ANCHOR ROD ARRANGEMENT &
PIER REINFORCING PLAN

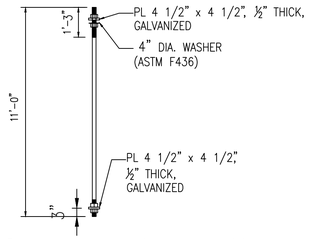


CAISSON FOUNDATION PROFILE
W/ STEEL CASING (TYP.)

(1) PERMANENT STEEL CASING SHALL HAVE $\frac{5}{8}$" WALL THICKNESS WITH A MINIMUM INSIDE DIAMETER EQUAL TO THE CONCRETE CASSION DIAMETER. MATERIAL SHALL BE ASTM A–283, GRADE C OR ASTM A–36 CARBON STEEL WITH A MINIMUM YIELD STRENGTH OF 33 KSI.

(2) ALTERNATE PERMANENT CASING: CORRUGATED STEEL PIPE MANUFACTURED PER ASTM A–760, GALVANIZED PER ASTM A–929, 14 GAGE MINIMUM THICKNESS, CORRUGATION PROFILE 5x1.

(3) PERMANENT FULL LENGTH CASING OPTION: FOUNDATION CONTRACTOR HAS OPTION TO INSTALL FULL LENGTH CASING BASED ON CONSTRUCTION METHODOLOGY.



2" ø THREADED ROD W/4 NUTS, ONE (1)
4" DIA. ROUND WASHER & TWO 4 1/2" WASHER PLATE
4 1/2" x 4 1/2" THICK. SEE NOTE 1 FOR DETAILS.

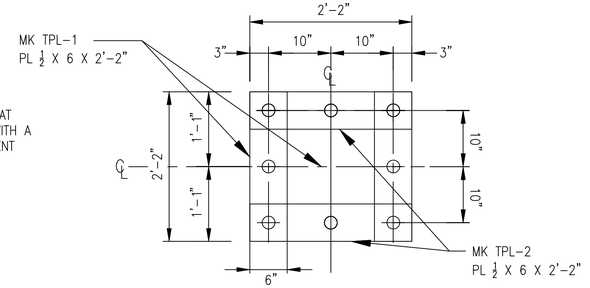
THREADED ANCHOR ROD W/ NUTS
(BY FOUNDATION CONTRACTOR)

(1) ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 55 BARS, WITH ASTM A563 GRADE C HEAVY HEX NUTS AND ASTM 436 4" O.D., 2 1/8" I.D. ROUND WASHER, ASTM A–36, 4 1/2" SQUARE WASHER PLATE AND SHALL BE GALVANIZED ACCORDING TO ASTM A–153, U.O.N. (PORTLAND BOLT & MANUF. – 3441 NW GUAM STREET, PORTLAND, OR, 97210 – (800)547–6758.

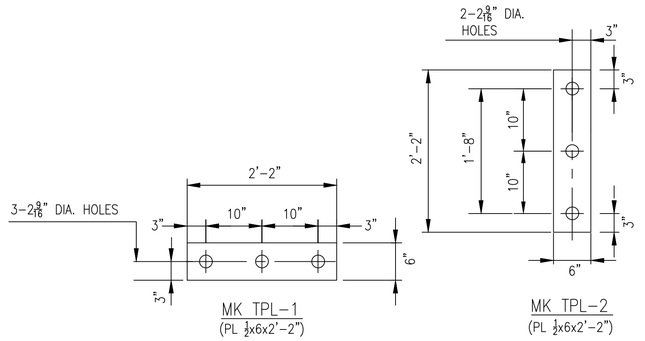
MATERIAL REQUIRED FOR
ONE (1) '26A' PIER FOUNDATION

MK	QTY.	DESCRIPTION
ABA	6	2" DIA. x 11'–0" LG. ANCHOR BOLT (SEE DETAIL)
4A1	24	#4 x 19'–9" LG. (64"DIA. + 3'–0")
8A2	20	#11 x 25'–6" LG. (STR)
——	1	72" O.D. x 10'–0" (FULL OR PARTIAL CASING)
——	27.3	CUBIC YARDS 5,000 PSI CONCRETE PER ACI CODE
——	7.0	CUBIC FEET NON–SHRINK, NON–METALLIC, GROUT
TPL–1	4	PL 1/2 x 6 x 2'–2" (ANCHOR BOLT TEMPLATE)
TPL–2	4	PL 1/2 x 6 x 2'–2" (ANCHOR BOLT TEMPLATE)

3'–0"



ANCHOR BOLT CAGE
TEMPLATE MK TPL
(TOP AND BOTTOM)



TEMPLATE MK TPL COMPONENTS

NOTES:

SPECIFICATIONS FOR FOUNDATION CONSTRUCTION:

FOR GENERAL NOTES AND ORIENTATION SEE FOUNDATION PLAN.

EXCAVATION AND BACKFILL

1. EXCAVATION REQUIRED FOR CONSTRUCTION OF FOUNDATIONS SHALL BE CARRIED DOWN TO PROPER BOTTOM ELEVATION.

2. AFTER FOUNDATION CONSTRUCTION IS COMPLETE AND CONSTRUCTION STAGING REMOVED, ALL FOUNDATION EXCAVATIONS TO BE BACKFILLED WITH FILL MATERIALS SUITABLE FOR GOOD DRAINAGE.

3. BACKFILL SHALL BE PLACED IN MAXIMUM TWELVE (12) INCH LIFTS AND COMPACTED TO MINIMUM 95% STANDARD PROCTOR DENSITY.

4. AFTER ALL FOUNDATION CONSTRUCTION AND BACKFILL OPERATIONS ARE COMPLETE, FINISH ELEVATIONS SHALL BE RE–ESTABLISHED. ANY AND ALL EXCESS EXCAVATED MATERIALS SHALL BE REMOVED AND DISPOSED OF OFF–SITE.

CASINGS

1. PERMANENT CASINGS SHALL BE INSTALLED WITHIN THE UPPER 10FT. OF THE CAISSON FOUNDATION. CASINGS SHALL BE 5/8" THICK GALVANIZED STEEL PIPE PER ASTM A283, GRADE C OR ASTM A36, WITHIN A MINIMUM YIELD STRENGTH OF 33 KSI. ALTERNATE CASING TO BE 14 GAGE CORRUGATED GALVANIZED STEEL PIPE PER ASTM A929, CORRUGATION PROFILE 5x1.

THE ANNULAR VOID SPACE OUTSIDE OF THE CASING SHALL BE FILLED WITH A FLOWABLE SAND–CEMENT GROUT MIX.

THE TOP OF THE CASING SHALL BE FINISHED A MINIMUM 6" BELOW SUBGRADE.

2. CASING OPTION: THE CONTRACTOR SHALL HAVE THE OPTION OF INSTALLING FULL LENGTH PERMANENT CASINGS BASED ON CONSTRUCTION METHODOLOGY.

FORMS AND STAGING WORK

1. FORMS AND STAGING USED FOR THE CONSTRUCTION OF THE FOUNDATIONS SHALL BE TIGHT, WELL BRACED, AND CONFORM TO THE SHAPE, LINES AND DIMENSIONS OF THE FOUNDATIONS AS SHOWN AND DETAILED.

CAST–IN–PLACE ITEMS

1. REINFORCING STEEL TO BE GRADE 60 BILLET STEEL IN ACCORDANCE WITH ASTM A–615, EPOXY COATED PERASTM A–775. REINFORCING STEEL CAGES TO BE FABRICATED BY THE CONTRACTOR.

2. THE ANCHOR BOLT ASSEMBLIES SHALL BE FABRICATED AS SHOWN.

3. CAST–IN–PLACE ITEMS SHALL BE PROPERLY SUPPORTED, ACCURATELY POSITIONED TO LINE AND PLUMB, AND POSITION LOCATION VERIFIED PRIOR TO PLACING OF CONCRETE.

CONCRETE

1. CONCRETE SHALL BE TRANSIT–MIX AND DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS AS DETERMINED BY ASTM C–94.

2. MIXING, PLACING, CURING AND PROTECTION OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI CODE 301.

3. TOP OF FOUNDATION SHALL BE SCREEDED LEVEL AND TRUE TO FINISH ELEVATION AND SHALL BE GIVEN A WOOD FLOAT FINISH WITH STEEL TOOLED EDGES.

4. FOUNDATION LOCATION DIMENSIONS SHOWN ON FOUNDATION PLAN ARE TO CENTERLINE OF FOUNDATION UNLESS SPECIFICALLY SHOWN OTHERWISE.

5. FOR TOP OF CONCRETE, BOTTOM OF BASE PLATE, ELEVATIONS SEE FOUNDATION PLAN.

STRUCTURE ERECTION AND GROUTING OF BASE PLATES

1. STEEL STRUCTURES SHALL BE FABRICATED AND ERECTED BY THE STEEL ERECTION CONTRACTOR.

2. BASEPLATES SHALL BE GROUTED BY THE STEEL ERECTION CONTRACTOR. GROUT SHALL BE US FIVE STAR NON–SHRINK, NON METALLIC HIGH STRENGTH GROUT, AS MANUFACTURED BY US GROUT CORPORATION, 750 COMMERCE DRIVE, FAIRFIELD, CT 06825 (203) 336–7900.

LENGTH OF CAISSON EMBEDMENT

DRILLED CAISSON FOUNDATIONS SHALL BE INSTALLED WITH MINIMUM EMBEDMENT AS SHOWN.

REFERENCE DRAWINGS:
F–114284 PLOT PLAN
F–118060 FOUNDATION PLAN
F–114289 CABLE & CONDUIT PLAN
F–114291 GROUNDING PLAN

REV	DATE	DESCRIPTION	DRAWN	REVIEW	APPR
A	03/20/2026	ISSUED FOR PERMIT	JTG	SA	CL

BURNS McDONNELL
Burns & McDonnell EGS
PROJ. NO. 178669

ISSUE NO.	DATE	W.O.	DESCRIPTION	DWN BY	CKD BY	REVIEWED	APPD
0	02/17/2026	P.90309	ORIGINAL ISSUE		P. GAVEZ		P. GAVEZ

Long Island Power Authority
COMMERCIAL AVE TERMINAL
HUNTINGTON STATION; NEW YORK

138KV SUBSTATION
H FRAME FOUNDATION – '26A'
SECTIONS, NOTES AND DETAILS

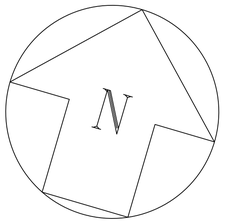
PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

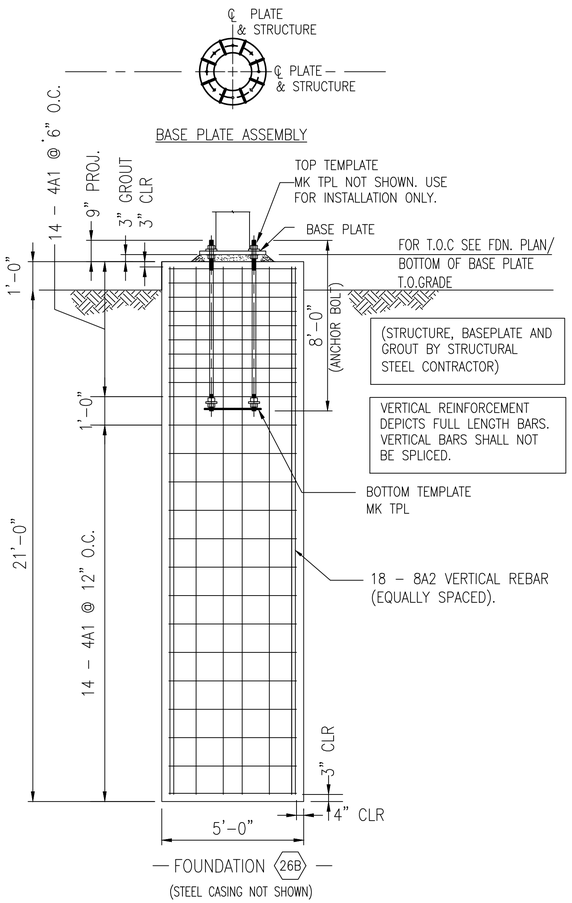
SCALE	VENDOR DWG. NO.
N.T.S.	

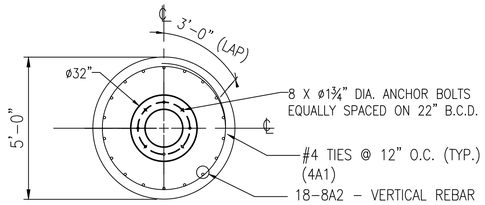
DRAWING NO.	SMART NO.	REVISION
F118052	4H_SS–FC–04008	000

SYSTEM GRID NUMBER	CABINET NO.	FOLDER NO.

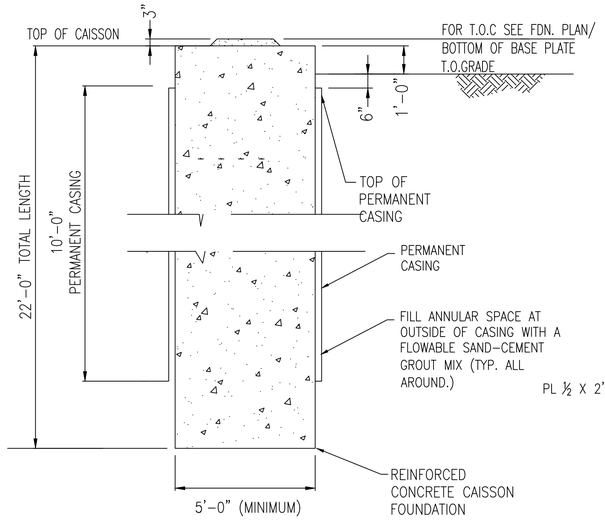
FOUNDATION SCHEDULE										
FOUNDATION DESIGNATION	STRUCTURE HEIGHT	APPLIED DESIGN LOADS*			ANCHOR BOLT PATTERN	NO. OF ANCHOR BOLTS	ANCHOR BOLT DIAMETER	APPROX. WEIGHT REBAR CAGE	CAISSON DIAMETER	CALC. FDN. DEPTH	VOL. OF CONCRETE
		AXIAL	SHEAR	MOMENT							
26B	-	–	–	–	IN–LINE	8	1 ¾"	–	6 FT.	22 FT.	16.0 CY







THREADED ANCHOR ROD ARRANGEMENT & PIER REINFORCING PLAN

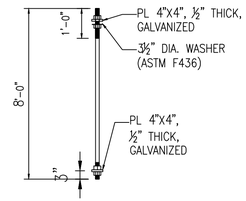


CAISSON FOUNDATION PROFILE
W/ STEEL CASING (TYP.)

(1) PERMANENT STEEL CASING SHALL HAVE ⅝" WALL THICKNESS WITH A MINIMUM INSIDE DIAMETER EQUAL TO THE CONCRETE CASSION DIAMETER. MATERIAL SHALL BE ASTM A–283, GRADE C OR ASTM A–36 CARBON STEEL WITH A MINIMUM YIELD STRENGTH OF 33 KSI.

(2) ALTERNATE PERMANENT CASING: CORRUGATED STEEL PIPE MANUFACTURED PER ASTM A–760, GALVANIZED PER ASTM A–929, 14 GAGE MINIMUM THICKNESS, CORRUGATION PROFILE 5x1.

(3) PERMANENT FULL LENGTH CASING OPTION: FOUNDATION CONTRACTOR HAS OPTION TO INSTALL FULL LENGTH CASING BASED ON CONSTRUCTION METHODOLOGY.



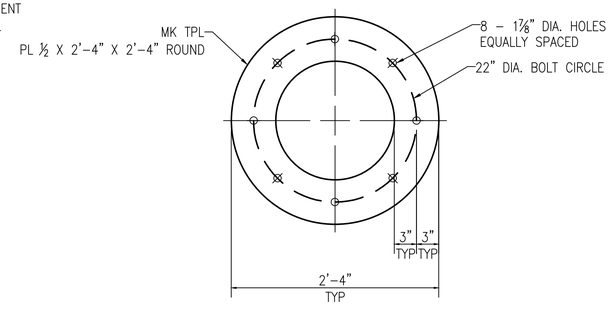
1¾" ø THREADED ROD W/4 NUTS, ONE (1) 3½" DIA. ROUND WASHER & TWO (2)–4" WASHER PLATE 4"X4", ½" THICK. SEE NOTE 1 FOR DETAILS.

THREADED ANCHOR ROD W/ NUTS
(BY FOUNDATION CONTRACTOR)

(1) ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 55 BARS, WITH ASTM A563 GRADE C HEAVY HEX NUTS AND ASTM 436 3½" O.D., 1⅛" I.D. ROUND WASHER, ASTM A–36, 4" SQUARE WASHER PLATE AND SHALL BE GALVANIZED ACCORDING TO ASTM A–153, U.O.N. (PORTLAND BOLT & MANUF. – 3441 NW GUAM STREET, PORTLAND, OR, 97210 – (800)547–6758.

MATERIAL REQUIRED FOR
ONE (1) "26B" PIER FOUNDATION

MK	QTY.	DESCRIPTION
ABA	6	1 3/4" DIA. x 8'–0" LG. ANCHOR BOLT (SEE DETAIL)
4A1	24	#4 x 16'–8" LG. (52" DIA. + 3'–0")
8A2	18	#11 x 21'–6" LG. (STR)
——	1	60" O.D. x 10'–0" (FULL OR PARTIAL CASING)
——	16.0	CUBIC YARDS 5,000 PSI CONCRETE PER ACI CODE
——	4.5	CUBIC FEET NON–SHRINK, NON–METALLIC, GROUT
TPL	2	PL 1/2 x 2'–4"x 2'–4" ROUND (ANCHOR BOLT TEMPLATE)



ANCHOR BOLT CAGE
TEMPLATE MK TPL
(TOP AND BOTTOM)

NOTES:

SPECIFICATIONS FOR FOUNDATION CONSTRUCTION:

FOR GENERAL NOTES AND ORIENTATION SEE FOUNDATION PLAN.

EXCAVATION AND BACKFILL

1. EXCAVATION REQUIRED FOR CONSTRUCTION OF FOUNDATIONS SHALL BE CARRIED DOWN TO PROPER BOTTOM ELEVATION.

2. AFTER FOUNDATION CONSTRUCTION IS COMPLETE AND CONSTRUCTION STAGING REMOVED, ALL FOUNDATION EXCAVATIONS TO BE BACKFILLED WITH FILL MATERIALS SUITABLE FOR GOOD DRAINAGE.

3. BACKFILL SHALL BE PLACED IN MAXIMUM TWELVE (12) INCH LIFTS AND COMPACTED TO MINIMUM 95% STANDARD PROCTOR DENSITY.

4. AFTER ALL FOUNDATION CONSTRUCTION AND BACKFILL OPERATIONS ARE COMPLETE, FINISH ELEVATIONS SHALL BE RE–ESTABLISHED. ANY AND ALL EXCESS EXCAVATED MATERIALS SHALL BE REMOVED AND DISPOSED OF OFF–SITE.

CASINGS

1. PERMANENT CASINGS SHALL BE INSTALLED WITHIN THE UPPER 10FT. OF THE CAISSON FOUNDATION. CASINGS SHALL BE 5/8" THICK GALVANIZED STEEL PIPE PER ASTM A283, GRADE C OR ASTM A36, WITHIN A MINIMUM YIELD STRENGTH OF 33 KSI. ALTERNATE CASING TO BE 14 GAGE CORRUGATED GALVANIZED STEEL PIPE PER ASTM A929, CORRUGATION PROFILE 5x1.

THE ANNULAR VOID SPACE OUTSIDE OF THE CASING SHALL BE FILLED WITH A FLOWABLE SAND–CEMENT GROUT MIX.

THE TOP OF THE CASING SHALL BE FINISHED A MINIMUM 6" BELOW SUBGRADE.

2. CASING OPTION: THE CONTRACTOR SHALL HAVE THE OPTION OF INSTALLING FULL LENGTH PERMANENT CASINGS BASED ON CONSTRUCTION METHODOLOGY.

FORMS AND STAGING WORK

1. FORMS AND STAGING USED FOR THE CONSTRUCTION OF THE FOUNDATIONS SHALL BE TIGHT, WELL BRACED, AND CONFORM TO THE SHAPE, LINES AND DIMENSIONS OF THE FOUNDATIONS AS SHOWN AND DETAILED.

CAST–IN–PLACE ITEMS

1. REINFORCING STEEL TO BE GRADE 60 BILLET STEEL IN ACCORDANCE WITH ASTM A–615, EPOXY COATED PERASTM A–775. REINFORCING STEEL CAGES TO BE FABRICATED BY THE CONTRACTOR.

2. THE ANCHOR BOLT ASSEMBLIES SHALL BE FABRICATED AS SHOWN.

3. CAST–IN–PLACE ITEMS SHALL BE PROPERLY SUPPORTED, ACCURATELY POSITIONED TO LINE AND PLUMB, AND POSITION LOCATION VERIFIED PRIOR TO PLACING OF CONCRETE.

CONCRETE

1. CONCRETE SHALL BE TRANSIT–MIX AND DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS AS DETERMINED BY ASTM C–94.

2. MIXING, PLACING, CURING AND PROTECTION OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI CODE 301.

3. TOP OF FOUNDATION SHALL BE SCREEDED LEVEL AND TRUE TO FINISH ELEVATION AND SHALL BE GIVEN A WOOD FLOAT FINISH WITH STEEL TOOLED EDGES.

4. FOUNDATION LOCATION DIMENSIONS SHOWN ON FOUNDATION PLAN ARE TO CENTERLINE OF FOUNDATION UNLESS SPECIFICALLY SHOWN OTHERWISE.

5. FOR TOP OF CONCRETE, BOTTOM OF BASE PLATE, ELEVATIONS SEE FOUNDATION PLAN.

STRUCTURE ERECTION AND GROUTING OF BASE PLATES

1. STEEL STRUCTURES SHALL BE FABRICATED AND ERECTED BY THE STEEL ERECTION CONTRACTOR.

2. BASEPLATES SHALL BE GROUTED BY THE STEEL ERECTION CONTRACTOR. GROUT SHALL BE US FIVE STAR NON–SHRINK, NON METALLIC HIGH STRENGTH GROUT, AS MANUFACTURED BY US GROUT CORPORATION, 750 COMMERCE DRIVE, FAIRFIELD, CT 06825 (203) 336–7900.

LENGTH OF CAISSON EMBEDMENT

DRILLED CAISSON FOUNDATIONS SHALL BE INSTALLED WITH MINIMUM EMBEDMENT AS SHOWN.

REFERENCE DRAWINGS:

F114284 PLOT PLAN
F118052 FOUNDATION PLAN
F114289 CABLE & CONDUIT PLAN
F114291 GROUNDING PLAN

REV	DATE	DESCRIPTION	DRAWN	REVIEW	APPR
A	03/20/2026	ISSUED FOR PERMIT	JTG	SA	CL

BURNS McDONNELL
Burns & McDonnell EGS
PROJ. NO. 178669

ISSUE NO.	DATE	W.O.	DESCRIPTION	DWN BY	CKD BY	REVIEWED	APPD
0	02/17/2026	P30309	ORIGINAL ISSUE		P. GAJEZ		P. GAJEZ

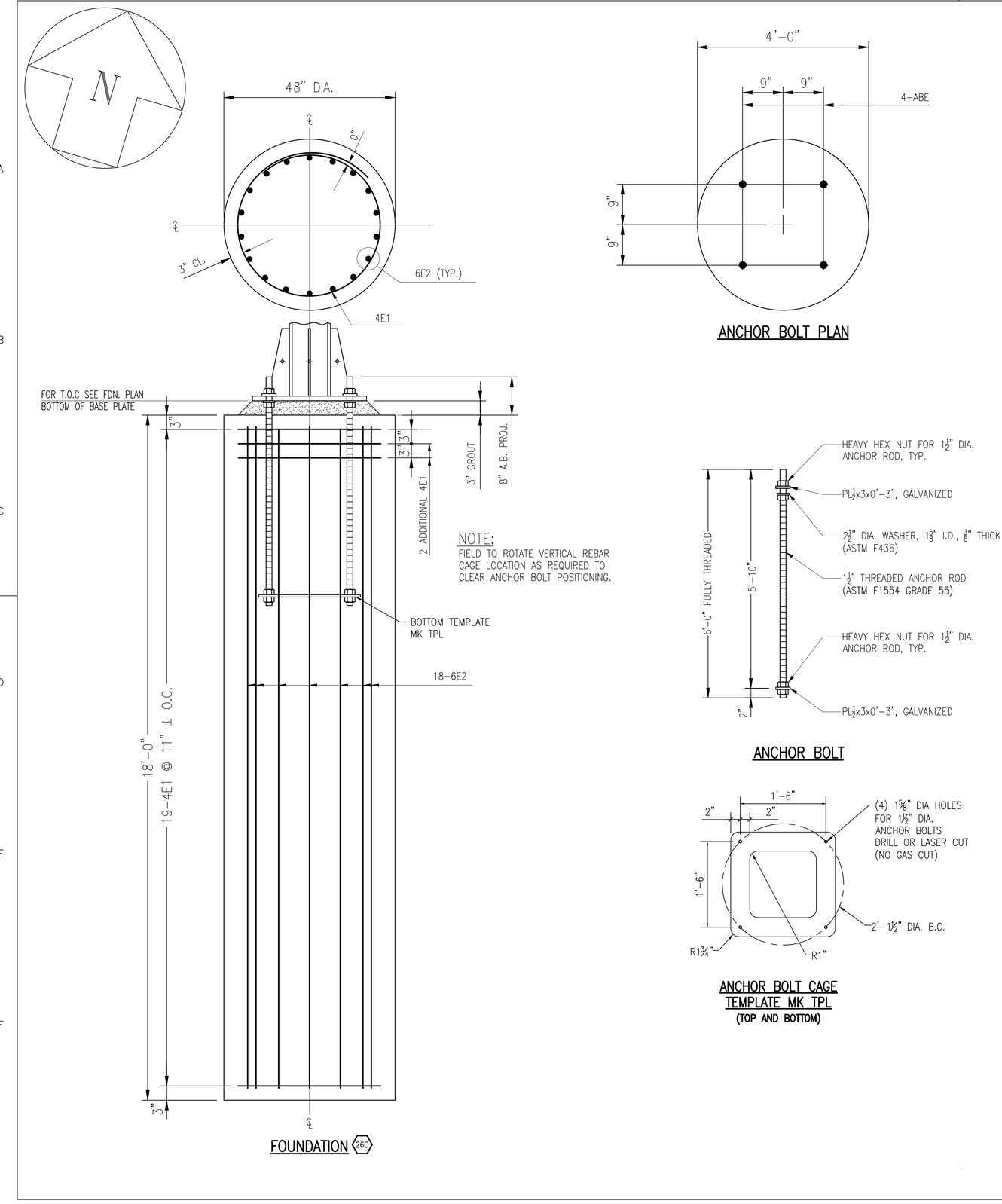
PROPERTY AND FACILITIES SHOWN ON THIS DRAWING WERE TRANSFERED TO Long Island Power Authority AS OF MAY 27, 1998

Long Island Power Authority
STEWART AVENUE SUBSTATION
UNIONDALE; NEW YORK

138KV SUBSTATION
AIR CORE REACTOR FOUNDATION '26B'
PLAN, SECTIONS AND DETAILS

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

SCALE N.T.S.
VENDOR DWG. NO.
DRAWING NO. F118057
SMART NO. 4H_SS–FC–04009
REVISION 000
SYSTEM GRID NUMBER
CABINET NO.
FOLDER NO.



FOUNDATION 26C

NOTE:
FIELD TO ROTATE VERTICAL REBAR CAGE LOCATION AS REQUIRED TO CLEAR ANCHOR BOLT POSITIONING.

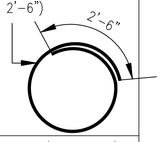
ANCHOR BOLT PLAN

ANCHOR BOLT

ANCHOR BOLT CAGE TEMPLATE MK TPL
(TOP AND BOTTOM)

MATERIAL REQUIRED FOR ONE (1) '26C' PIER FOUNDATION

MK	QTY.	DESCRIPTION
4E1	21	#4 x 13'-6" LG. (42" DIA.+ 2'-6")
6E2	18	#6 x 17'-6" LG. (STRAIGHT)
ABE	4	1½" DIA. THREADED ANCHOR ROD (SEE DETAIL)
--	1	48" DIAMETER x 4'-0" SONOTUBE
--	8.4	CUBIC YARDS 4,500 PSI CONCRETE PER ACI CODE
--	3.2	CUBIC FEET NON-SHRINK, NON-METALLIC, FIVE STAR GROUT
TPL	2	PL 1/2" x 1'-10" x 1'-10" (ANCHOR BOLT TEMPLATE)



TOTAL LENGTHS OF REBAR REQUIRED FOR ONE (1) 26C FDN.

FT.	SIZE	TOTAL WEIGHT (LBS.)
284	#4	190
315	#8	842

NOTES:

SPECIFICATIONS FOR FOUNDATION CONSTRUCTION:

FOR GENERAL NOTES AND ORIENTATION SEE FOUNDATION PLAN.

EXCAVATION AND BACKFILL

1. EXCAVATION REQUIRED FOR CONSTRUCTION OF FOUNDATIONS SHALL BE CARRIED DOWN TO PROPER BOTTOM ELEVATION.

2. AFTER FOUNDATION CONSTRUCTION IS COMPLETE AND CONSTRUCTION STAGING REMOVED, ALL FOUNDATION EXCAVATIONS TO BE BACKFILLED WITH FILL MATERIALS SUITABLE FOR GOOD DRAINAGE.

3. BACKFILL SHALL BE PLACED IN MAXIMUM TWELVE (12) INCH LIFTS AND COMPACTED TO MINIMUM 95% STANDARD PROCTOR DENSITY.

4. AFTER ALL FOUNDATION CONSTRUCTION AND BACKFILL OPERATIONS ARE COMPLETE, FINISH ELEVATIONS SHALL BE RE-ESTABLISHED. ANY AND ALL EXCESS EXCAVATED MATERIALS SHALL BE REMOVED AND DISPOSED OF OFF-SITE.

CASINGS

1. PERMANENT CASINGS SHALL BE INSTALLED WITHIN THE UPPER 10FT. OF THE CAISSON FOUNDATION. CASINGS SHALL BE 5/8" THICK GALVANIZED STEEL PIPE PER ASTM A283, GRADE C OR ASTM A36, WITHIN A MINIMUM YIELD STRENGTH OF 33 KSI. ALTERNATE CASING TO BE 14 GAGE CORRUGATED GALVANIZED STEEL PIPE PER ASTM A929, CORRUGATION PROFILE 5x1.

THE ANNULAR VOID SPACE OUTSIDE OF THE CASING SHALL BE FILLED WITH A FLOWABLE SAND-CEMENT GROUT MIX.

THE TOP OF THE CASING SHALL BE FINISHED A MINIMUM 6" BELOW SUBGRADE.

2. CASING OPTION: THE CONTRACTOR SHALL HAVE THE OPTION OF INSTALLING FULL LENGTH PERMANENT CASINGS BASED ON CONSTRUCTION METHODOLOGY.

FORMS AND STAGING WORK

1. FORMS AND STAGING USED FOR THE CONSTRUCTION OF THE FOUNDATIONS SHALL BE TIGHT, WELL BRACED, AND CONFORM TO THE SHAPE, LINES AND DIMENSIONS OF THE FOUNDATIONS AS SHOWN AND DETAILED.

CAST-IN-PLACE ITEMS

1. REINFORCING STEEL TO BE GRADE 60 BILLET STEEL IN ACCORDANCE WITH ASTM A-615, EPOXY COATED PERASTM A-775. REINFORCING STEEL CAGES TO BE FABRICATED BY THE CONTRACTOR.

2. THE ANCHOR BOLT ASSEMBLIES SHALL BE FABRICATED AS SHOWN.

3. CAST-IN-PLACE ITEMS SHALL BE PROPERLY SUPPORTED, ACCURATELY POSITIONED TO LINE AND PLUMB, AND POSITION LOCATION VERIFIED PRIOR TO PLACING OF CONCRETE.

CONCRETE

1. CONCRETE SHALL BE TRANSIT-MIX AND DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS AS DETERMINED BY ASTM C-94.

2. MIXING, PLACING, CURING AND PROTECTION OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI CODE 301.

3. TOP OF FOUNDATION SHALL BE SCREEDED LEVEL AND TRUE TO FINISH ELEVATION AND SHALL BE GIVEN A WOOD FLOAT FINISH WITH STEEL TOOLED EDGES.

4. FOUNDATION LOCATION DIMENSIONS SHOWN ON FOUNDATION PLAN ARE TO CENTERLINE OF FOUNDATION UNLESS SPECIFICALLY SHOWN OTHERWISE.

5. FOR TOP OF CONCRETE, BOTTOM OF BASE PLATE, ELEVATIONS SEE FOUNDATION PLAN.

STRUCTURE ERECTION AND GROUTING OF BASE PLATES

1. STEEL STRUCTURES SHALL BE FABRICATED AND ERECTED BY THE STEEL ERECTION CONTRACTOR.

2. BASEPLATES SHALL BE GROUTED BY THE STEEL ERECTION CONTRACTOR. GROUT SHALL BE US FIVE STAR NON-SHRINK, NON METALLIC HIGH STRENGTH GROUT, AS MANUFACTURED BY US GROUT CORPORATION, 750 COMMERCE DRIVE, FAIRFIELD, CT 06825 (203) 336-7900.

LENGTH OF CAISSON EMBEDMENT

DRILLED CAISSON FOUNDATIONS SHALL BE INSTALLED WITH MINIMUM EMBEDMENT AS SHOWN.

REFERENCE DRAWINGS:
F-114284 PLOT PLAN
F-118060 FOUNDATION PLAN
F-114289 CABLE & CONDUIT PLAN
F-114291 GROUNDING PLAN

REV	DATE	DESCRIPTION	DRAWN	REVIEW	APPR
A	03/20/2026	ISSUED FOR PERMIT	JTG	SA	CL

BURNS McDONNELL
Burns & McDonnell EGS
PROJ. NO. 178669

ISSUE NO.	DATE	W.O.	DESCRIPTION	DWN BY	CKD BY	REVIEWED	APPD
0	02/17/2026	P.9039	ORIGINAL ISSUE		P. GUMZ		P. GUMZ

Long Island Power Authority
COMMERCIAL AVENUE TERMINAL
HUNTINGTON STATION; NEW YORK

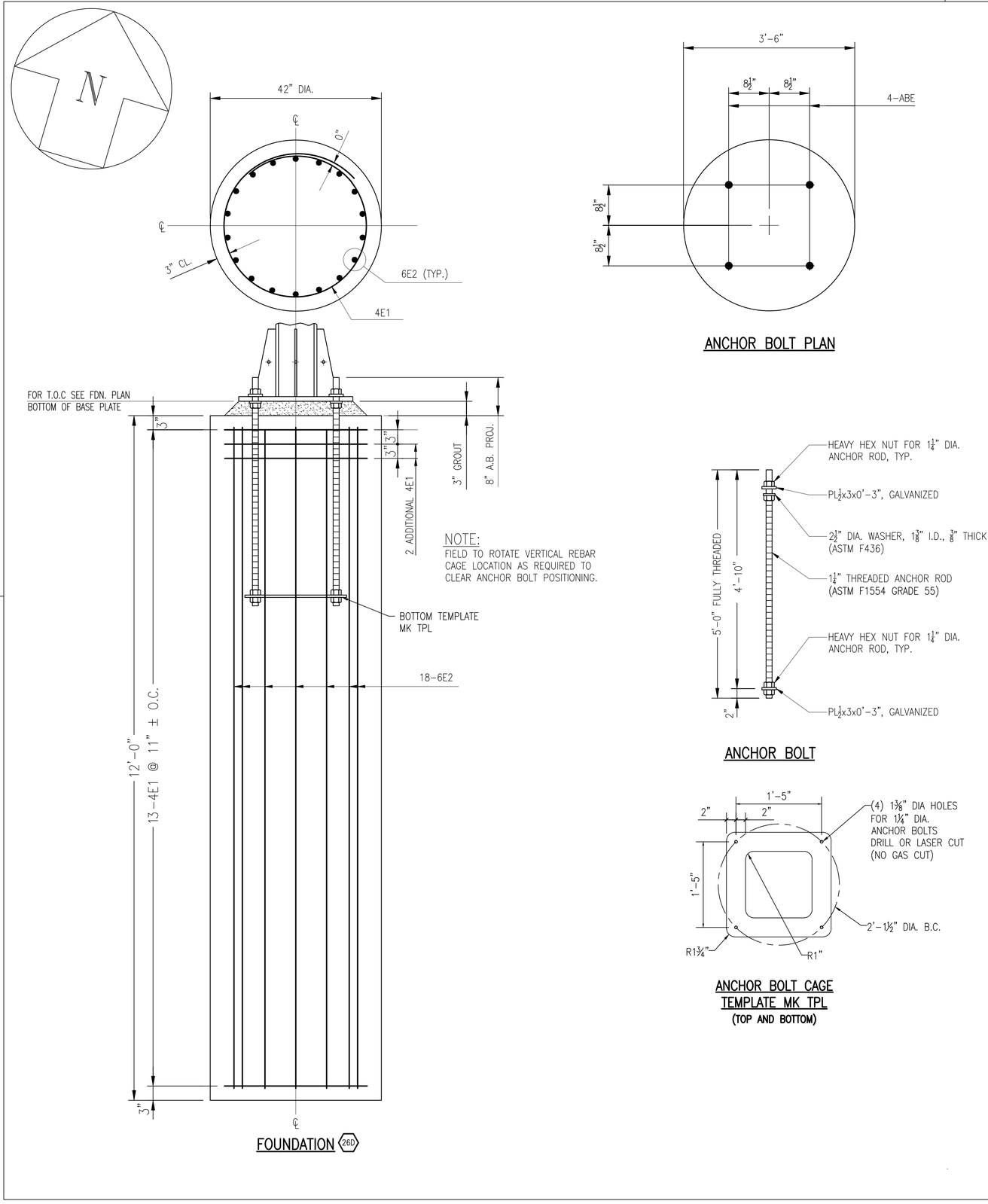
138KV SUBSTATION
UG/SA STRUCTURE AND GROUND SWITCH W/BUS SUPPORT -'26C'
NOTES AND DETAILS

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

SCALE	VENDOR DWG. NO.
N.T.S.	

DRAWING NO.	SMART NO.	REVISION
F118058	4H_SS-FC-04010	000

SYSTEM GRID NUMBER	CABINET NO.	FOLDER NO.



FOUNDATION 26D

NOTE:
FIELD TO ROTATE VERTICAL REBAR CAGE LOCATION AS REQUIRED TO CLEAR ANCHOR BOLT POSITIONING.

ANCHOR BOLT PLAN

ANCHOR BOLT

ANCHOR BOLT CAGE TEMPLATE MK TPL
(TOP AND BOTTOM)

MATERIAL REQUIRED FOR ONE (1) '26D' PIER FOUNDATION

MK	QTY.	DESCRIPTION
4E1	15	#4 x 12'-0" LG. (36" DIA.+ 2'-6")
6E2	15	#6 x 11'-6" LG. (STRAIGHT)
ABE	4	1¼" DIA. THREADED ANCHOR ROD (SEE DETAIL)
--	1	42" DIAMETER x 3'-6" SONOTUBE
--	4.3	CUBIC YARDS 4,500 PSI CONCRETE PER ACI CODE
--	1.4	CUBIC FEET NON-SHRINK, NON-METALLIC, FIVE STAR GROUT
TPL	2	PL 1/2" x 1'-9" x 1'-9" (ANCHOR BOLT TEMPLATE)

2'-6"

TOTAL LENGTHS OF REBAR REQUIRED FOR ONE (1) 26D FDN.

FT.	SIZE	TOTAL WEIGHT (LBS.)
180	#4	121
173	#8	462

NOTES:

SPECIFICATIONS FOR FOUNDATION CONSTRUCTION:

FOR GENERAL NOTES AND ORIENTATION SEE FOUNDATION PLAN.

EXCAVATION AND BACKFILL

1. EXCAVATION REQUIRED FOR CONSTRUCTION OF FOUNDATIONS SHALL BE CARRIED DOWN TO PROPER BOTTOM ELEVATION.

2. AFTER FOUNDATION CONSTRUCTION IS COMPLETE AND CONSTRUCTION STAGING REMOVED, ALL FOUNDATION EXCAVATIONS TO BE BACKFILLED WITH FILL MATERIALS SUITABLE FOR GOOD DRAINAGE.

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THE TOP OF THE CASING SHALL BE FINISHED A MINIMUM 6" BELOW SUBGRADE.

2. CASING OPTION: THE CONTRACTOR SHALL HAVE THE OPTION OF INSTALLING FULL LENGTH PERMANENT CASINGS BASED ON CONSTRUCTION METHODOLOGY.

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3. CAST-IN-PLACE ITEMS SHALL BE PROPERLY SUPPORTED, ACCURATELY POSITIONED TO LINE AND PLUMB, AND POSITION LOCATION VERIFIED PRIOR TO PLACING OF CONCRETE.

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REV	DATE	DESCRIPTION	DRAWN	REVIEW	APPR
A	03/20/2026	ISSUED FOR PERMIT	JTG	SA	CL

BURNS McDONNELL
Burns & McDonnell EGS
PROJ. NO. 178669

ISSUE NO.	DATE	W.O.	DESCRIPTION	DWN BY	CKD BY	REVIEWED	APPD
0	02/17/2026	P.91309	ORIGINAL ISSUE		P. GAVEZ		P. GAVEZ

Long Island Power Authority
COMMERCIAL AVE TERMINAL
HUNTINGTON STATION; NEW YORK

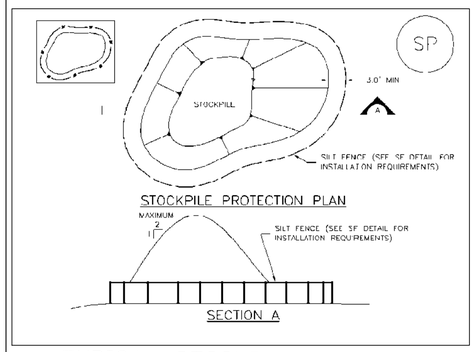
138KV SUBSTATION
BUS SUPPORT PIER FOUNDATION -'26D'
NOTES AND DETAILS

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

SCALE: N.T.S.
VENDOR DWG. NO.
DRAWING NO.: F118059
SMART NO.: 4H_SS-FC-04011
REVISION: 000
SYSTEM GRID NUMBER
CABINET NO.
FOLDER NO.

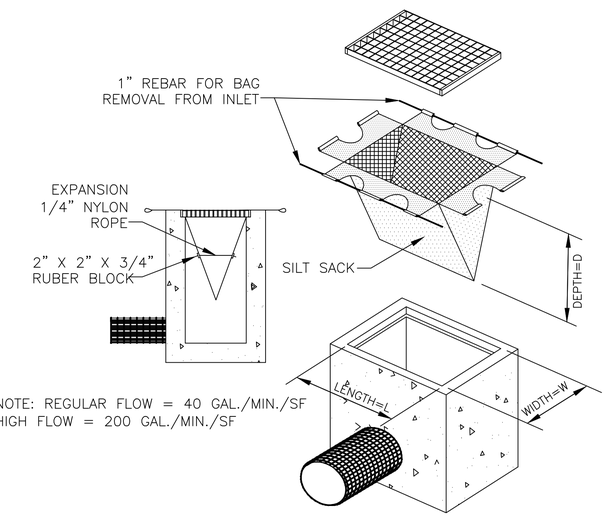
1. THE BASE OF ALL STOCKPILES SHALL BE PROTECTED BY A SEDIMENT FENCE.

2. STOCKPILES SHALL BE VEGETATED – SEE VEGETATIVE STANDARDS FOR SOIL STABILIZATION.



TYPICAL STOCKPILE DETAIL

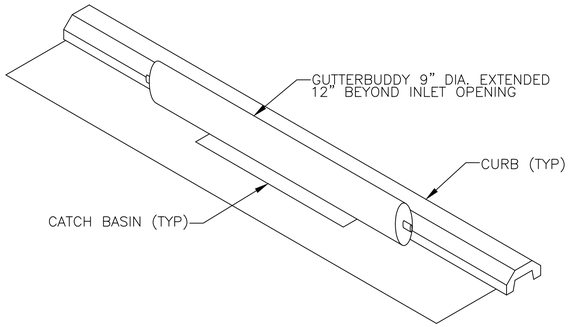
NOT TO SCALE



NOTE: REGULAR FLOW = 40 GAL./MIN./SF
HIGH FLOW = 200 GAL./MIN./SF

SILT SACK INLET PROTECTION DETAIL

NOT TO SCALE

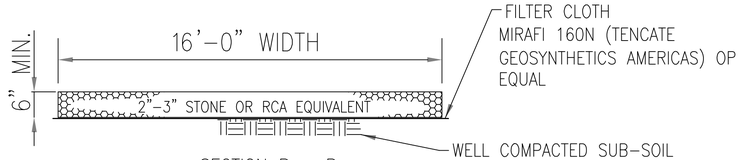


GUTTERBUDDY STORM DRAIN

NOT TO SCALE

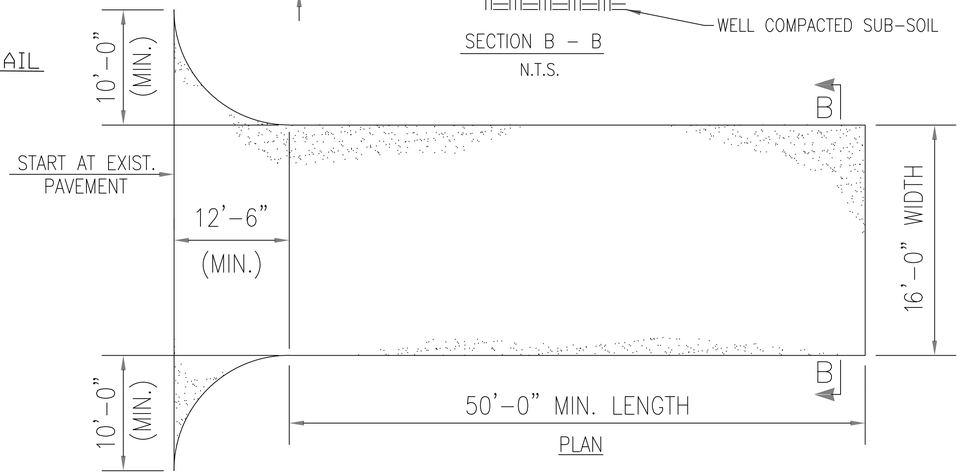
TEMPORARY STABILIZED CONSTRUCTION ROAD INSTALLATION NOTES:

1. STONE SIZE – USE 2"–3" STONE, OR RECLAIMED OR RECYCLED CONCRETE AGGREGATE EQUIVALENT.
2. LENGTH – AS REQUIRED, BUT NOT LESS THAN 50 FEET.
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – 25 FOOT MINIMUM, UNLESS NOTED OTHERWISE.
5. FILTER CLOTH – INSTALL OVER THE ENTIRE ROAD AREA PRIOR TO PLACEMENT 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 RIGHT OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING – WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. 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.
10. PUBLIC ROADWAYS, STREETS, ETC. SHALL BE CLEANED DAILY, AT THE END OF EACH WORK DAY.



SECTION B – B

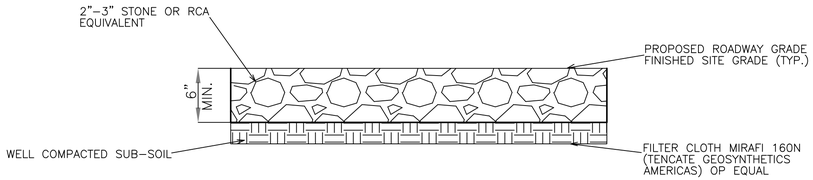
N.T.S.



PLAN

TEMPORARY STABILIZED CONSTRUCTION ROAD

NOT TO SCALE

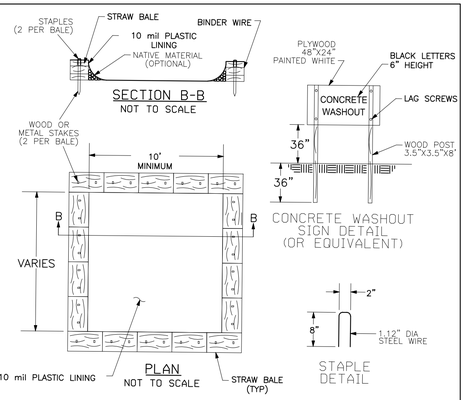


TYPICAL SIDE VIEW OF CONSTRUCTION ROAD

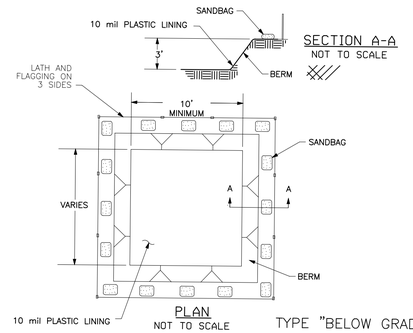
NOT TO SCALE

NOTES:

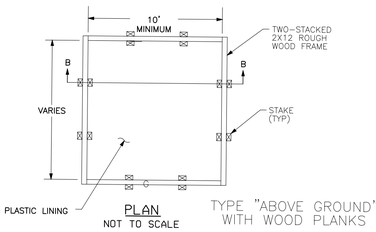
1. PROPOSED ROADWAY GRADE TO MATCH FINISHED SITE GRADE AT ALL LOCATIONS (TYP.)



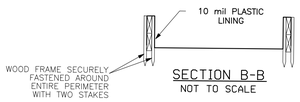
TYPE "ABOVE GRADE" WITH STRAW BALES



TYPE "BELOW GRADE"



TYPE "ABOVE GROUND" WITH WOOD PLANKS

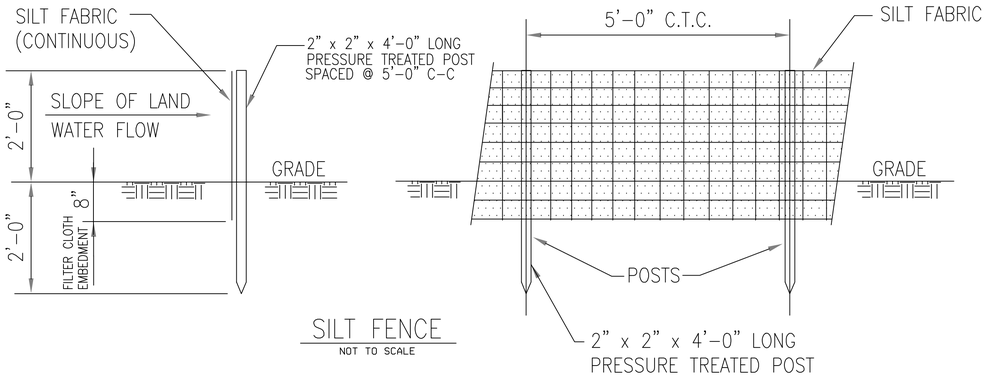


STANDARD CONCRETE WASHOUT

NOT TO SCALE

SILT FENCE NOTES:

1. SILT FABRIC SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVER–LAPPED BY A MINIMUM OF 6 INCHES AND FOLDED.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.



SILT FENCE

NOT TO SCALE

REV	DATE	DESCRIPTION	DRAWN	REVIEW	APPR
B	05/01/2026	ISSUED FOR PERMITTING	KAV	VG	JR
A	02/20/2026	FOR BIDDING	KAV	VG	JR

BURNS McDONNELL
Burns & McDonnell EGS
PROJ. NO. 178669

NO.	DATE	W.O.	DESCRIPTION	DWN BY	CKD BY	REVIEWED	APPD
0							

ISSUE

PROPERTY AND FACILITIES SHOWN ON THIS DRAWING WERE TRANSFERED TO Long Island Power Authority AS OF MAY 27, 1998

In accordance with NYS Education law 7208(3), LIPA and its service provider are exempt from certain engineering and surveyor requirements consistent with an exemption that exists with respect to investor-owned utilities subject to oversight of the Public Service commission.

TEMP. DWG. NO.

Long Island Power Authority
COMMERCIAL AVE
TOWN OF HEMPSTEAD, NEW YORK

EROSION & SEDIMENT CONTROL DETAILS

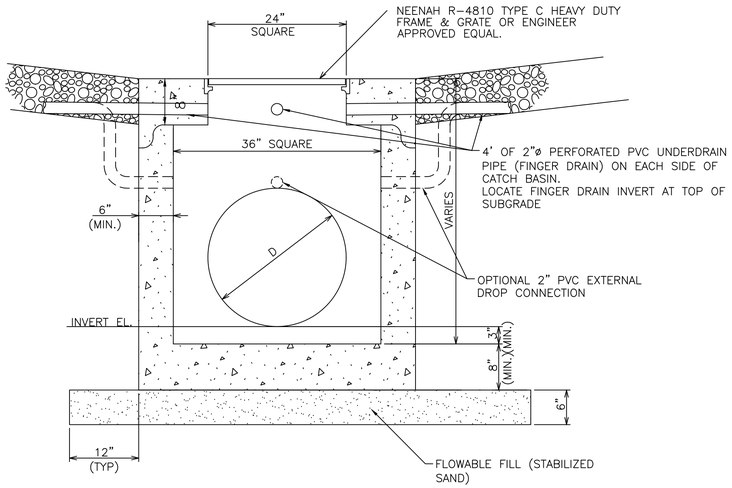
TERMINAL FACILITY

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

SCALE: AS NOTED
VENDOR DWG. NO.

DRAWING NO.: F118087
SMART NO.: XX_XX-XX-XXXXX
REVISION: 0

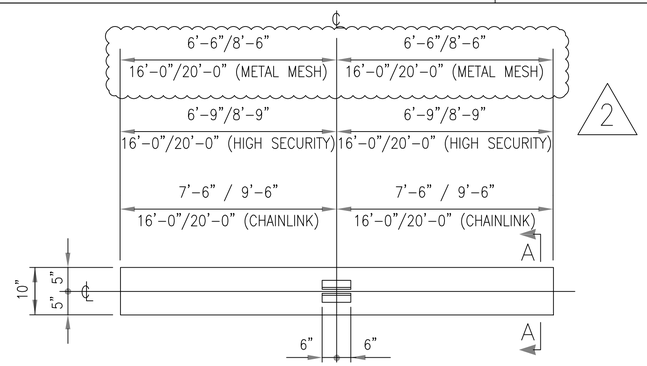
SYSTEM GRID NUMBER
CABINET NO.
FOLDER NO.



NOTES:

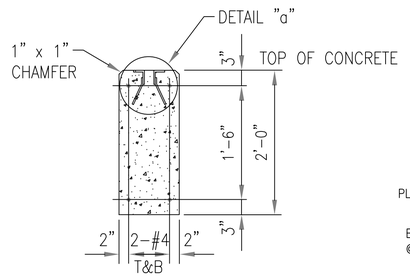
1. ALL CATCH BASINS ARE TO BE PRECAST CONCRETE AND HS-20 RATED FOR HEAVY LOADING.
2. REINFORCEMENT IN ALL SECTIONS SHALL EQUAL OR EXCEED ASTM C913 SPECIFICATIONS.
3. CLEARANCE TOLERANCE OF PIPE OPENINGS: THE MAXIMUM ALLOWABLE PIPE OPENING ON A HORIZONTAL AXIS SHALL BE THE OUTSIDE DIAMETER OF THE PIPE PLUS 12". THE MAXIMUM ALLOWABLE PIPE OPENING ON VERTICAL AXIS SHALL BE THE OUTSIDE DIAMETER PLUS 8". THE MINIMUM CLEARANCE BETWEEN THE OUTSIDE SURFACE OF AN INSTALLED PIPE AND CONCRETE OF THE CATCH BASIN SHALL BE 2".
4. INSTALLATION OF PIPE OPENINGS: ALL REQUIRED PIPE OPENINGS SHALL BE PLAN CAST IN CATCH BASIN UNITS. FIELD ALTERATIONS OF OPENINGS WILL BE PERMITTED PROVIDED WALLS ARE SCORED WITH A MASONRY SAW TO A DEPTH SUFFICIENT TO SEVER REINFORCING STEEL. A CHIPPING HAMMER MAY THEN BE USED TO REMOVE THE CONCRETE.

CATCH BASIN DETAIL
NOT TO SCALE



2

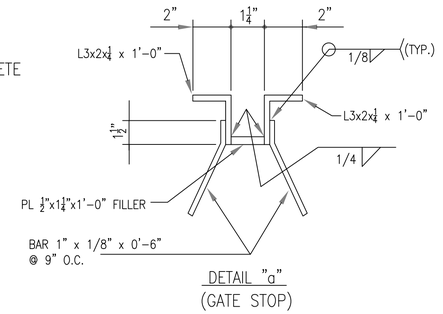
SWING GATE CONCRETE SADDLE (4,000 PSI)
NOT TO SCALE



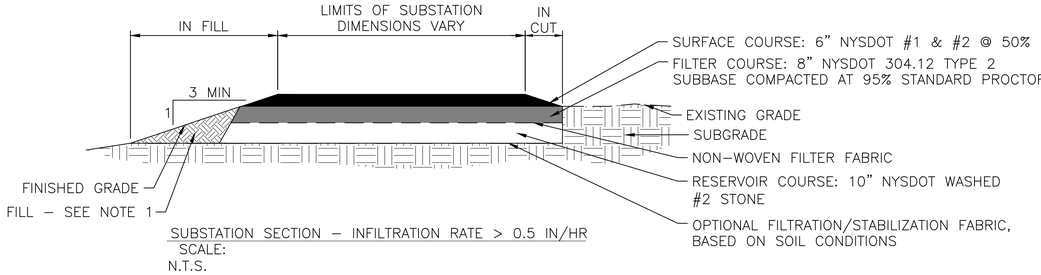
SECTION A – A

CONCRETE SADDLE NOTES:

1. ALL REINFORCING SHALL BE ASTM-615, GRADE 60, DEFORMED BILLET STEEL, EPOXY COATED PER ASTM A-775.
2. CONCRETE TO BE READY MIX CONFORMING TO ASTM C-94 AND SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
3. ALL STEEL MEMBERS TO BE A-36 STEEL, FABRICATED AND WELDED IN ACCORDANCE WITH THE LATEST AISC SPEFICATIONS.
4. ALL WELDS TO BE CONTINUOUS AND WATERTIGHT.
5. ALL STEEL TO BE HOT-DIPPED GALVANIZED AFTER WELDING IN ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS.



DETAIL "a" (GATE STOP)

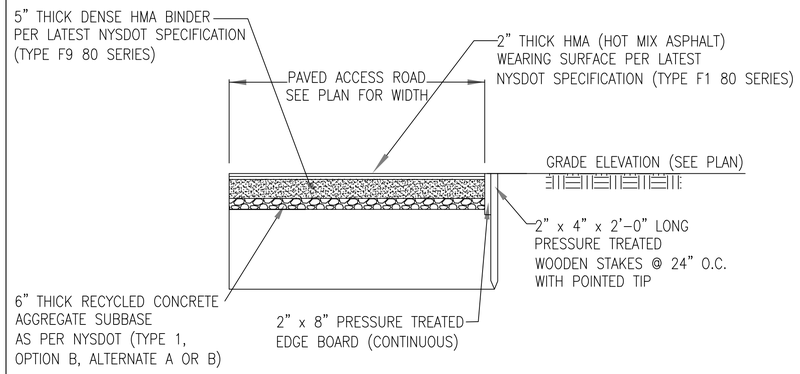


SUBSTATION SECTION – INFILTRATION RATE > 0.5 IN/HR
SCALE:
N.T.S.

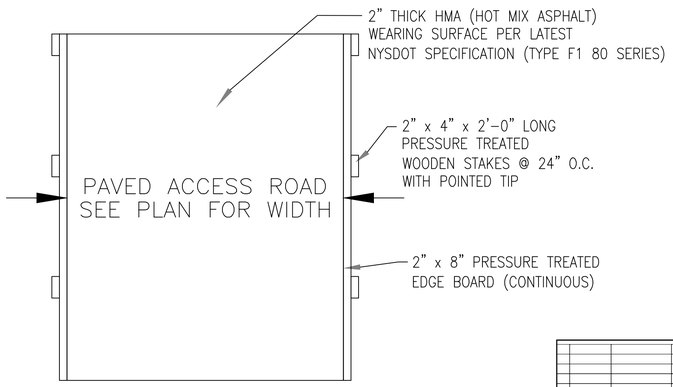
NOTES:

1. ALL FILL USED FOR SIDE SLOPES SHALL BE ONSITE MATERIAL FROM AREA CUT TO CREATE THE SUBSTATION OR SHALL BE OFFSITE FILL COMPACTED TO HAVE AN INFILTRATION RATE LESS THAN THE SUBSTATION SUBGRADE.
2. NATIONAL GRID (NG) TOGETHER WITH THE CONSULTING FIRM, ENVIRONMENTAL DESIGN & RESEARCH (EDIR), PREPARED A NYSDEC STORMWATER MANAGEMENT PROTOTYPE SYSTEM (SYSTEM), WHICH MAY BE APPLICABLE TO SUBSTATION PROJECTS. THE USER ASSUMES THE SOLE RESPONSIBILITY FOR THE USE OF THIS SYSTEM, ITS APPLICABILITY TO THE PROJECT SITE, AND VERIFICATION OF THE APPROPRIATE USE AND COMPLIANCE WITH VILLAGE, TOWN, CITY, COUNTY, STATE, AND FEDERAL STORMWATER REQUIREMENTS FOR THIS LOCATION.

SUBSTATION SECTION – INFILTRATION RATE > 0.5 IN/HR
NOT TO SCALE

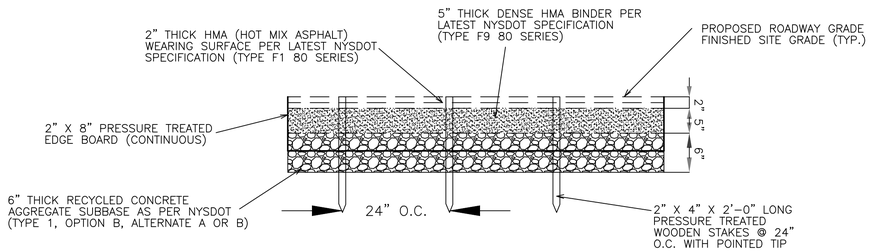


TYPICAL SECTION OF PAVED ROAD
NOT TO SCALE



TYPICAL PLAN OF PAVED ROAD
NOT TO SCALE

NOTE: FOR ANY CONFLICTS BETWEEN THE LIPA DRAWINGS AND NEW YORK STATE REQUIREMENTS THE NEW YOUR STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, LATEST EDITION, SHALL APPLY AS THE MINIMUM STANDARDS.



TYPICAL SIDE VIEW OF PAVED ROAD
NOT TO SCALE

NOTES:

1. PROPOSED ROADWAY GRADE TO MATCH FINISHED SITE GRADE AT ALL LOCATIONS (TYP.)

NO.	DATE	DESCRIPTION	DRAWN	REVIEW	APPR
B	05/01/2026	ISSUED FOR PERMITTING	KAV	VG	JR
A	02/20/2026	FOR BIDDING	KAV	VG	JR

BURNS McDONNELL
Burns & McDonnell EGS
PROJ. NO. 178669

NO.	DATE	W.O.	DESCRIPTION	DWN BY	CKD BY	REVIEWED	APPD
0							

ISSUE

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TEMP. DWG. NO.

Long Island Power Authority
COMMERCIAL AVE
TOWN OF HEMPSTEAD; NEW YORK

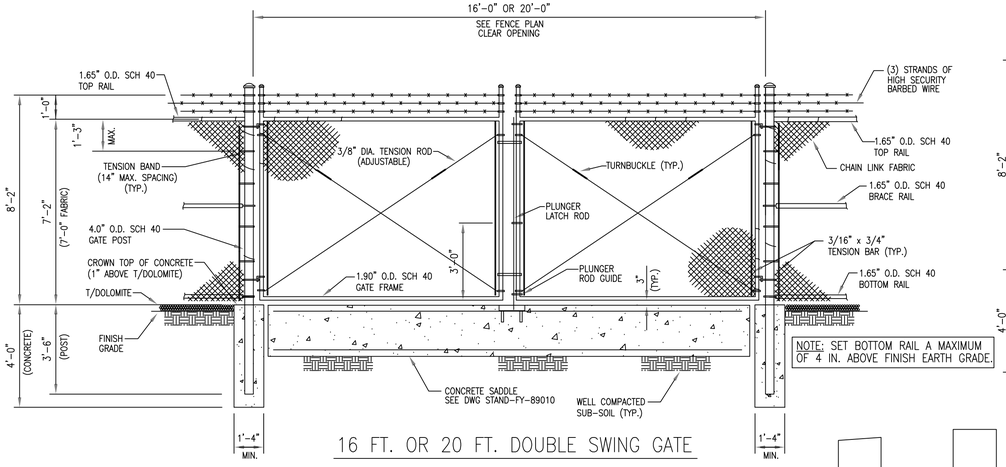
CIVIL DETAILS
TERMINAL YARD - SECTIONS & DETAILS
TERMINAL FACILITY

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

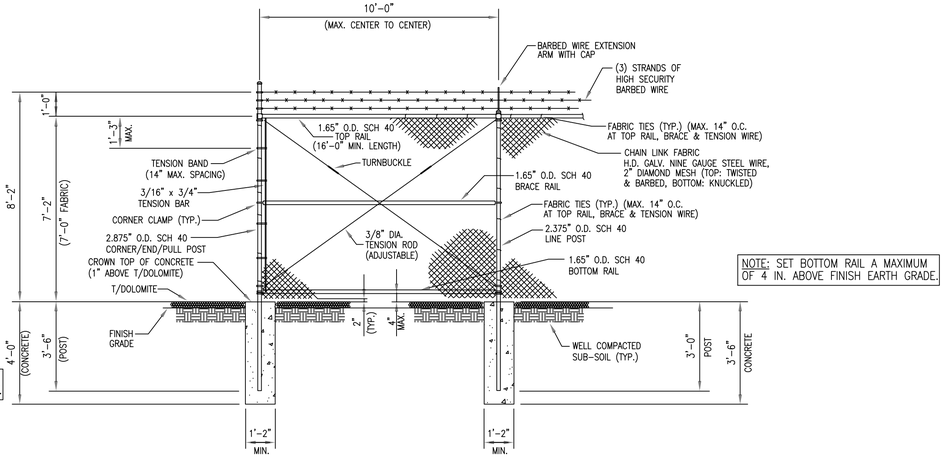
SCALE: AS NOTED
VENDOR DWG. NO.

DRAWING NO. F118088
SMART NO. XX_XX-XX-XXXXX
REVISION 0

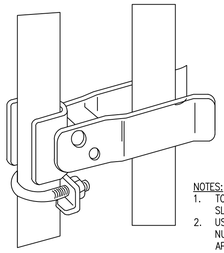
SYSTEM
GRID NUMBER
CABINET NO.
FOLDER NO.



16 FT. OR 20 FT. DOUBLE SWING GATE

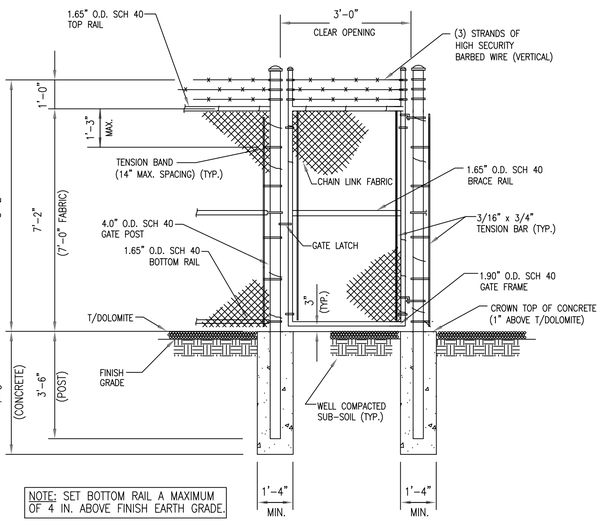


TYPICAL CORNER, END, PULL OR LINE POST
CHAIN LINK FENCE SECTION

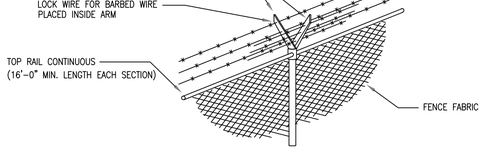


NOTES:
1. TO BE USED ON DOUBLE SWING, SLIDING AND MAN GATE
2. USE DAC INDUSTIRES PRODUCT NUMBER 4250 WALK GATE LATCH OR APPROVED EQUAL

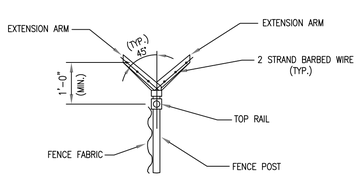
STRONG ARM GATE LATCH



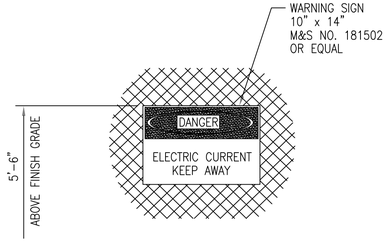
3 FT. MAN GATE



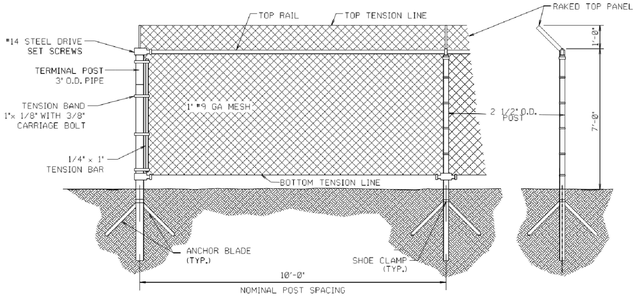
POST EXTENSION W/ BARBED WIRE



POST EXTENSION ARM

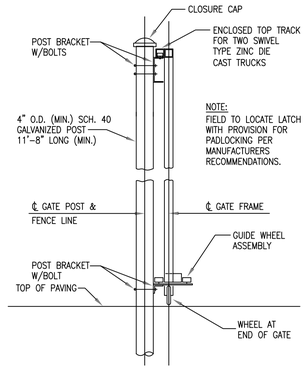


FENCE WARNING SIGN
(SPACED AT 75' O.C.)
(FURNISHED BY PSEG-LI)



NOTES:
1. ALL POSTS & PIPES TO BE SCHEDULE 40 OR 80 DEPENDING ON HEIGHT (ASTM-F283)
2. DRIVE ANCHOR SYSTEM BY ANCHOR FENCE OR APPROVED EQUAL

TEMPORARY CONSTRUCTION CHAIN LINK FENCE
WITH ALUMINIZED OR GALVANIZED STEEL FABRIC
NOT TO SCALE



SLIDE GATE SUPPORT
(GALVANIZED STEEL POST)

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NOTES:
1. ALL FENCE POSTS, GATES, FABRIC AND ACCESSORIES SUCH AS TENSION BARS, POST TOPS, TOP RAIL, TRUSS BRACES, GATES, GATE HINGES, BARBED WIRE, LATCHES, ETC. SHALL BE IN ACCORDANCE WITH INDUSTRIAL STEEL SPECIFICATIONS FOR FENCE POSTS, GATES AND ACCESSORIES OF THE CHAIN LINK MANUFACTURERS INSTITUTE AND WITH ASTM SPECIFICATION FOR GALVANIZED MATERIAL.
2. CHAIN LINK FENCE FABRIC SHALL BE IN ACCORDANCE WITH ASTM A-392. IT SHALL BE WOVEN OF 9 GAUGE GOOD COMMERCIAL QUALITY STEEL WIRE HOT-DIPPED GALVANIZED AFTER WEAVING TO CLASS II WEIGHT OF COATING, NOT LESS THAN 2.0 OZ. PER SQUARE FOOT OF ACTUAL WIRE SURFACE COVERED. THE FABRIC SHALL BE MADE OF 2 INCH DIAMOND MESH AND SHALL BE CONTINUOUS IN EACH ROLL WITHOUT SPLICES.
3. ALL FENCING SHALL HAVE "V" TYPE EXTENSION ARMS EXTENDING OUTWARD AT AN ANGLE OF 45 DEGREES AND EQUIPPED WITH 6 ROWS OF 2 STRAND BARBED WIRE (3 ROWS INSIDE, 3 ROWS OUTSIDE). THE "V" TYPE EXTENSION ARMS SHALL BE CAPABLE OF WITHSTANDING A 250 LB. LOAD APPLIED AT THE OUTER BARBED WIRE STRAND.
4. TENSION BARS SHALL BE ONE PIECE LENGTHS EQUAL TO THE FULL HEIGHT OF THE FABRIC WITH A MINIMUM CROSS-SECTION OF 3/16 IN. BY 3/4 IN. BANDS SHALL BE SPACED NOT MORE THAN 14 IN. O.C. TO SECURE TENSION BARS TO TERMINAL, CORNER AND GATE POSTS. HARDWARE SHALL BE ATTACHED SO AS TO BE NON-REMOVABLE FROM OUTSIDE OF FENCE.
5. TOP & BOTTOM RAILS SHALL BE 1.65 INCH O.D. SCHEDULE 40 PIPE.
6. POST TOPS SHALL BE THE COMBINATION TYPE WITH BARBED WIRE SUPPORTING ARMS AND HOLES SUITABLE FOR THE THROUGH PASSAGE OF THE TOP RAIL.
7. TRUSS BRACES SHALL BE 1.65 IN. O.D. SCHEDULE 40 PIPE. DIAGONAL TRUSS RODS SHALL BE ADJUSTABLE, 3/8 INCH DIAMETER RODS.
8. WIRE TIES USED FOR TYING FABRIC TO LINE POSTS SHALL BE A MINIMUM OF 9 GAUGE ALUMINUM WIRE TIES, SPACED 14 INCHES O.C. FOR TYING FABRIC TO BRACES, USE 9 GAUGE ALUMINUM WIRE TIES, SPACED 24 INCHES O.C. FOR TYING FABRIC TO TENSION WIRE, USE 11 GAUGE HOG RINGS SPACED 24 INCHES O.C.
9. TERMINAL AND CORNER POSTS SHALL BE 2.875 INCHES O.D., SCHEDULE 40 PIPE AND AT LEAST 3.5 FT. LONGER THAN THE FENCE FABRIC HEIGHT. LINE POSTS SHALL BE 2.375 INCHES O.D., SCHEDULE 40 PIPE AND AT LEAST 3.0 FT. LONGER THAN THE FENCE FABRIC HEIGHT. GATE POSTS SHALL BE 4.0 INCHES O.D., SCHEDULE 40 PIPE AND AT LEAST 3.5 FT. LONGER THAN THE FENCE FABRIC HEIGHT.
10. GATE PERIMETER FRAMING SHALL BE 1.90 INCHES O.D., SCHEDULE 40 PIPE, WHILE THE INTERNAL GATE BRACING SHALL BE 1.65 INCHES O.D. ALL GATES SHALL HAVE EXTENSION ARMS FOR THE THREE STRANDS OF BARBED WIRE AND SHALL BE VERTICAL.
11. GATE HINGES SHALL BE PRESSED STEEL OR MALLEABLE IRON TO SUIT GATE SIZE, NON-LIFT OFF TYPE TO PERMIT OPERATION FROM EITHER SIDE OF GATE. PROVIDE ONE PAIR OF HINGES FOR EACH LEAF. GATE LATCH SHALL BE FORKED TYPE TO PERMIT OPERATION FROM EITHER SIDE OF GATE. PROVIDE PADLOCK EYE AS INTEGRAL PART OF LATCH. PROVIDE KEEPERS FOR ALL GATES WHICH AUTOMATICALLY ENGAGE THE GATE LEAF AND HOLD IT IN THE OPEN POSITION UNTIL MANUALLY RELEASED. PROVIDE GATE STOPS FOR THE DOUBLE GATES CONSISTING OF MUSHROOM TYPE OF FLUSH PLATE WITH ANCHORS. GATE STOPS SHALL BE SET IN CONCRETE TO ENGAGE THE CENTER DROP ROD OR PLUNGER BAR. PROVIDE LOCKING DEVICE AND PADLOCK EYES AS AN INTERGRAL PART OF THE LATCH, REQUIRING PADLOCK FOR LOCKING BOTH GATE LEAVES.
12. ALL PIPE WHICH IS TO BE USED FOR POST RAILS, BRACES, ETC. SHALL BE IN ACCORDANCE WITH ASTM F1083 "STANDARD SPECIFICATION FOR PIPE, STEEL, HOT-DIPPED, ZINC-COATED (GALVANIZED) WELDED, FOR FENCE STRUCTURES".
13. ALL POSTS SHALL BE SET IN CONCRETE FOUNDATIONS AND SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI IN 28 DAYS. CONCRETE PLACEMENT AND DESIGN SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 301 AND ACI 318 CODES, RESPECTIVELY. PROVISIONS SHALL BE MADE FOR CURING AND PROTECTION OF CONCRETE IN EXTREME WEATHER CONDITIONS.

REV.	DATE	DESCRIPTION	DRAWN	REVIEW	APPR
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BURNS McDONNELL
Burns & McDonnell EGS
PROJ. NO. 178669

NO.	DATE	W.O.	DESCRIPTION	DWN BY	CKD BY	REVIEWED	APPD
0							

ISSUE

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TEMP. DWG. NO.

Long Island Power Authority
COMMERCIAL AVE
TOWN OF HEMPSTEAD; NEW YORK

CIVIL DETAILS
FENCE AND GATES - SECTIONS & DETAILS
TERMINAL FACILITY

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

SCALE	VENDOR DWG. NO.
AS NOTED	

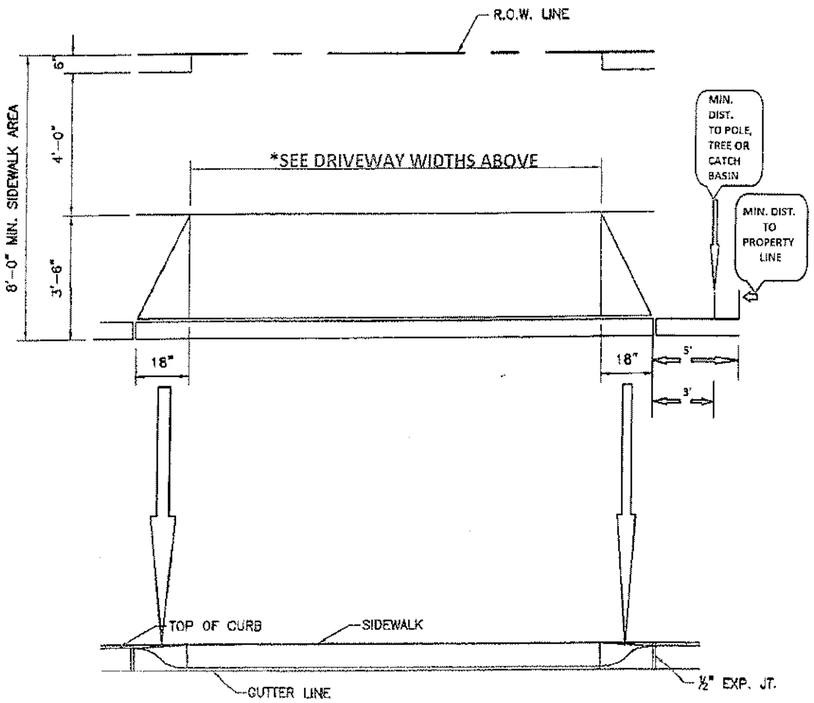
DRAWING NO.	SMART NO.	REVISION
F118089	XX_XX-XX-XXXXX	0

SYSTEM GRID NUMBER	CABINET NO.	FOLDER NO.

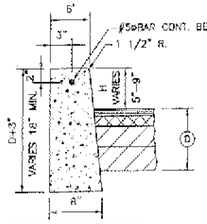
CONCRETE MUST BY NASSAU COUNTY CLASS 'A' ONLY

CONCRETE MUST BE FROM AN APPROVED PLANT ONLY

***COMMERCIAL ONE WAY - MINIMUM 20' MAXIMUM 30'**



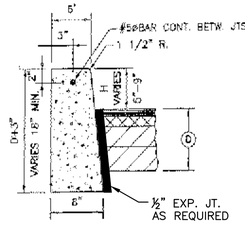
AS OF OCT 2015



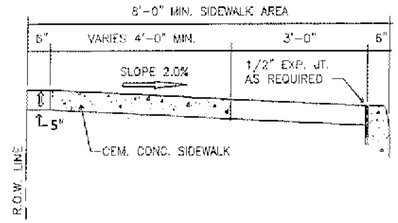
STANDARD CURB

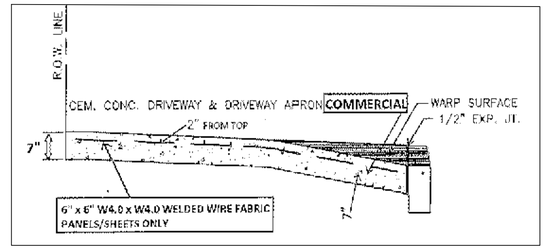
CONCRETE MUST BY NASSAU COUNTY CLASS 'A' ONLY

CONCRETE MUST BE FROM AN APPROVED PLANT ONLY



STANDARD CURB W/ EXPANSION JOINT





CONCRETE MUST BY NASSAU COUNTY CLASS 'A' ONLY

CONCRETE MUST BE FROM AN APPROVED PLANT ONLY

AS OF OCT 2015

GENERAL NOTES:

1. ALL WORK MUST FOLLOW THE NASSAU COUNTY 2009 SPECIFICATIONS.
2. NASSAU COUNTY CLASS A CONCRETE ONLY.
3. ALL EXPANSION JOINTS MUST BE ½" THICK AND FULL DEPTH (EX. 5" SIDEWALK = 5" EXPANSION JOINT).
4. 2 X 6 LUMBER (FORMS) ARE TO BE USED FOR 5" SIDEWALKS.
5. 2 X 8 LUMBER (FORMS) ARE TO BE USED FOR 7" SIDEWALKS AND APRONS FOR COMMERCIAL DRIVEWAYS.
6. EXPANSION JOINTS ARE TO BE PLACED EVERY 20' OF SIDEWALK AND CURB.
7. EXPANSION MATERIAL IS TO BE USED AROUND ALL UTILITY POLES AND HYDRANTS.
8. PVC PIPE SLEEVES SHALL BE PLACED AROUND ALL SIGNPOSTS THAT ARE LOCATED IN THE CONCRETE POUR.
9. ****HANDICAP RAMPS MUST BE COMPLIANT WITH THE LATEST ADA REQUIREMENTS****
10. HANDICAP RAMPS ARE TO HAVE A #5 REBAR IN THE CURB AND 6" X 6" W 4.0 X W 4.0 WIRE MESH IN THE ENTIRE RAMP AREA.
11. HANDICAP RAMPS ARE A MONOLITHIC POUR (ONE SOLID POUR FOR THE ENTIRE RAMP AREA).
12. ANY OTHER DAMAGED OR DISPLACED CURBS AND SIDEWALKS THAT ARE LOCATED IN THE COUNTY R.O.W. WILL NEED TO BE REPLACED BEFORE ANY PERMIT CAN BE SIGNED OFF.
13. ASPHALT ROADWAY THAT IS DAMAGED BY CONSTRUCTION WILL NEED TO BE REPLACED IN KIND. 9" MIN TO 12" MAX THICKNESS WITH A 2' CUT FROM THE FACE OF THE CURB. ALL ASPHALT MUST BE FROM AN APPROVED PLANT. (SEE LIST)
14. ANY TRAFFIC SIGNAL BOXES, MANHOLES, CATCH BASINS, WATER VALVES, TRAFFIC LOOPS, ETC. SHALL BE PROTECTED AND OR ADJUSTED AS NEEDED.
15. TRAFFIC SIGNAL LOOPS THAT MAY BE DAMAGED MUST BE BROUGHT TO THE INSPECTOR'S ATTENTION BEFORE WORK STARTS.
16. SMALL TREE ROOTS CAN BE REMOVED TO CORRECT SIDEWALKS BUT, LARGER ROOTS WILL NEED TO BE SEEN BY THE INSPECTOR BEFORE ANY REMOVAL OF THE ROOTS, SOME TREES MAY NEED TO BE REMOVED. IF SO, NASSAU COUNTY WILL FIRST NEED TO HAVE THE TREE INSPECTED BY THE ARBORIST FOR NASSAU COUNTY.
17. PEDESTRIAN SAFETY NEEDS TO BE ADDRESSED BEFORE ANY WORK IN THE SIDEWALK AREA.
18. NO WOOD OR OTHER MATERIALS WILL BE ALLOWED TO BE USED AS EXPANSION JOINT MATERIAL.
19. NO BLOCK CURB OR OTHER TYPE THAN CONCRETE WILL BE ALLOWED TO BE USED AS CURB UNLESS PRIOR AUTHORIZATION IS GIVEN.
20. ALL TRAFFIC MAINTENANCE IN THE WORK ZONE SHALL CONFORM TO THE NYSDOT WORK ZONE TRAFFIC CONTROL MANUAL. (SEE THE NYSDOT WEBSITE FOR DETAILS)
21. ALL TEMPORARY PATCHES SHALL BE SEALED WITH HOT ASPHALT ONLY AND MUST BE MAINTAINED UNTIL RESTORATION IS COMPLETED. IF THE ASPHALT PLANTS ARE CLOSED THEN COLD PATCH WILL BE ALLOWED BUT MUST BE MAINTAINED UNTIL RESTORATION IS COMPLETED.
22. ANY WORK THAT WILL REQUIRE A CLOSURE OF ANY TRAFFIC LANE CAN ONLY BE CLOSED NO SOONER THAN 9 AM AND MUST BE REOPENED BY 4 PM.
23. ANY ROAD CLOSURES AND OR DETOURS OF TRAFFIC MUST BE APPROVED IN ADVANCE BY THE PERMIT OFFICE ONLY.
24. PROPOSED STANDARD CONCRETE CURB PER NASSAU COUNTY STANDARD. PROVIDE EXPANSION JOINT WHERE NEW CURB MEETINGS EXISTING CONCRETE.

WEATHER LIMITATIONS FOR CONCRETE:

1. CONCRETE SHALL BE PLACED ONLY WHEN THE AIR TEMPERATURE IS 40°F AND RISING, OR WARMER, AND WHEN THE GROUND OR BASE IS ALSO AT LEAST 40°F.
2. AIR TEMPERATURES ARE TO BE MEASURED IN THE SHADE; GROUND TEMPERATURE SHALL BE TAKEN JUST BELOW THE SURFACE.
3. MATERIALS THAT CONTAIN FROST SHALL NOT BE USED.
4. WHEN CONCRETE IS BEING PLACED DURING COLD WEATHER AND THE AIR TEMPERATURE MAY BE EXPECTED TO DROP BELOW 35°F. A SUFFICIENT SUPPLY OF STRAW, HAY, OR OTHER APPROVED BLANKETING MATERIAL SHALL BE PLACED TO PREVENT THE FREEZING OF THE NEW CONCRETE.
5. ANY CONCRETE LAID DURING COLD WEATHER IS DONE AT THE CONTRACTOR'S RISK AND SECTIONS THAT ARE DAMAGED, SHALL BE REMOVED AND REPLACED.

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Burns & McDonnell EGS

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TEMP. DWG. NO.

Long Island Power Authority
COMMERCIAL AVE
TOWN OF HEMPSTEAD; NEW YORK

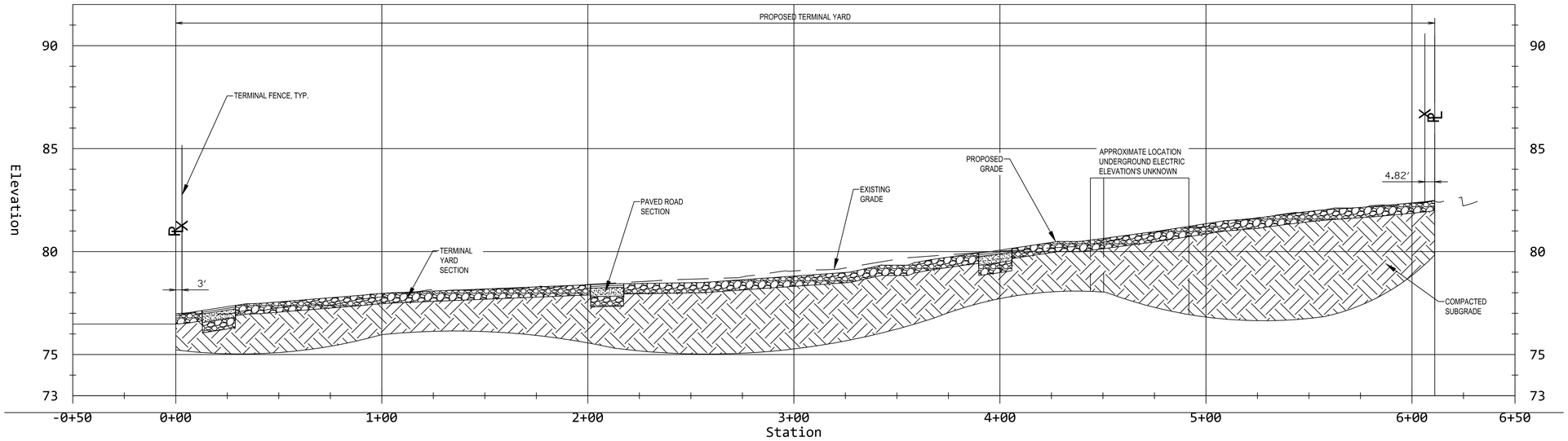
CIVIL DETAILS
NASSAU COUNTY ROADWAY DETAILS
TERMINAL FACILITY

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

SCALE	VENDOR DWG. NO.
AS NOTED	

DRAWING NO.	SMART NO.	REVISION
F118090	XX_XX-XX-XXXXX	0

SYSTEM GRID NUMBER	CABINET NO.	FOLDER NO.



SECTION A-A PROFILE

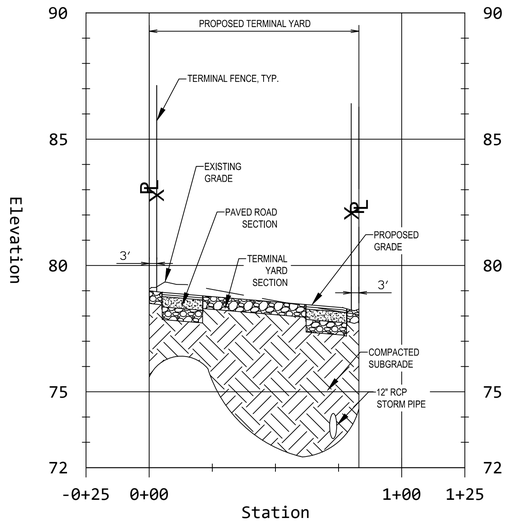
HORIZONTAL SCALE: 1" = 30'

30 15 0 30 60

VERTICAL SCALE: 1" = 3'

3 1.5 0 3 6

EXAGGERATION: 10H:1V



SECTION B-B PROFILE

HORIZONTAL SCALE: 1" = 30'

30 15 0 30 60

VERTICAL SCALE: 1" = 3'

3 1.5 0 3 6

EXAGGERATION: 10H:1V

REFERENCE DRAWINGS:

F118082 ---------- REMOVAL PLAN
F118083 ---------- SITE PLAN
F118085 ---------- EROSION & SEDIMENT CONTROL PLAN
F118086 ---------- EROSION & SEDIMENT CONTROL NOTES
F118087 ---------- EROSION & SEDIMENT CONTROL DETAILS
F118088 ---------- CIVIL DETAILS SH. 1
F118089 ---------- CIVIL DETAILS SH. 2
F118090 ---------- CIVIL DETAILS SH. 3

REV.	DATE	DESCRIPTION	DRAWN	REVIEW	APPR
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Long Island Power Authority
COMMERCIAL AVE
TOWN OF HEMPSTEAD; NEW YORK

PROFILE VIEWS

TERMINAL FACILITY

PSEG LONG ISLAND
175 East Old Country Road
Hicksville, New York

SCALE: AS NOTED

VENDOR DWG. NO.

DRAWING NO. F118513

SMART NO. XX_XX-XX-XXXXX

REVISION 0

SYSTEM
GRID NUMBER

CABINET NO.

FOLDER NO.

CONFIDENTIAL CRITICAL ENERGY INFRASTRUCTURE INFORMATION (CEII) HAS BEEN REDACTED FROM THIS DOCUMENT