

# DELIVERY STATION EXPANSION

EXTERIOR IMPROVEMENTS

400 ORITANI DR., ORANGETOWN, NY 10913



Date	02/17/2023	08/18/2023	10/27/2023						
Revision/Submissions									
PERMIT SET									
IBC SUBMISSION									
PERMIT SET RESUBMIT									
No.									

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CONFIDENTIAL

DOCUMENTS WERE PREPARED BY:

ARCHITECTURE: CESO, CO.  
EV CIVIL: CIVIL & ENVIRONMENTAL CONSULTANTS  
SITE ELECTRICAL: EMANUELSON-PODAS, INC.

## PROJECT TEAM

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SURVEY DATED 10/31/2019 BY BLEW & ASSOCIATES		

## DESIGN STANDARDS

### PROJECT DESCRIPTION

MINOR EXTERIOR WORK, INCLUDING: 1) NEW EV EQUIPMENT

### DESIGN STANDARDS INFORMATION

REFER TO CRITERIA AND WWDS APPENDIX LISTING ALL RELEVANT DESIGN STANDARDS AND CONTROL DOCUMENTS FOR THIS FACILITY

### DESIGN STANDARDS

APPLICABLE DESIGN STANDARDS INCORPORATED IN THESE DRAWINGS AND/OR APPLICABLE TO THIS PROJECT ARE LISTED BELOW:

STANDARD OR DATA SHEET	VERSION	DATE
Tenant's GSO - Security Basis of Design - Worldwide Design Standard for ENS Site Builds	5	1/30/2021
Tenant's - Tennisball Externalized Network BoD Complete Set Telecom	3	6/23/2021
FCIT 2021 A.E.M. Infrastructure Global Standards	9.4	4/30/2021
WWDS NA Associate Parking	2	3/26/2020
WWDS NA Circulation Areas Outside (Pedestrians)	2	3/26/2020
WWDS NA Dock Doors	2	3/26/2020
WWDS NA Domestic Water Service	2	3/26/2020
WWDS NA Electrical Room/Switchgear	2	3/26/2020
WWDS NA Fire Pump Room	2	3/26/2020
WWDS NA Hallway/Circulation Areas Indoor	2	3/26/2020
WWDS NA Multi-Faith Room	1	5/29/2020
WWDS NA Security Zoning - Rooms/Areas	1.1	4/14/2020
WWDS NA Site Signage	3	2/25/2022
WWDS NA Traffic & Circulation Principles	2	3/26/2020
WWDS NA Truck Yard	2	3/26/2020

## CODE INFORMATION

SITE AREA: 35.5 AC. (1,638,263 S.F.) - NO PROPOSED CHANGE  
BUILDING AREA: 400 ORITANI DRIVE: 122,167.1 S.F. - NO PROPOSED CHANGE  
OCCUPANCY TYPE: A-2, A-3, B, S-1  
CONSTRUCTION TYPE: II-B (FULLY SPRINKLERED)  
ALLOWABLE AREA: 2 STORY/ 17,500 S.F. / FLOOR (BASED ON S-1 OCC. CONST.) PER IBC TABLE 503  
SPRINKLER INCREASE +60' YARD INCREASE 1 STORY/UNLIMITED S.F. PER IBC SECTION 507.4

DELIVERY STATION EXPANSION

EXTERIOR IMPROVEMENTS  
400 ORITANI DRIVE  
ORANGETOWN, NY 10913



Project No.	759025-01
Scale	AS SHOWN
Drawn	JMJ
Checked	JAT
Date	02/17/2023
Drawing Title	PHASE 1 SITE

TITLE SHEET

Drawing No.	G0.01
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STANDARD ABBREVIATIONS

@	AT	EPDM	ETHYLENE PROPYLENE DIENE MONOMER	KSF	KIPS PER SQUARE FOOT	PT	PRESSURE TREATED / PORCELAIN TILE
AB	ANCHOR BOLT	EQ	EQUAL	KSI	KIPS PER SQUARE INCH	PVC	POLY VINYL CHLORIDE PAVEMENT
AC	ASPHALTIC CONCRETE	ES	EACH SIDE	L	ANGLE	PVMT	
ACI	AMERICAN CONCRETE INSTITUTE	ESFR	EACH SIDE	LAM	LAMINATE	R	RADIUS
ADA	AMERICANS WITH DISABILITIES ACT			LAV	LAVATORY	RAD	RADIAL
ADDL	ADDITIONAL	ETC	EPOXY TRAFFIC COATING / ETCETERA	LB	LAG BOLT	RB	RUBBER BASE
ADJ	ADJACENT/ ADJUSTABLE	EW	EACH WAY	LL	LIVE LOAD	RBE	ROOF BASE ELEVATION
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	EXP	EXPOSED STRUCTURE	LLV	LONG LEG VERTICAL	RCP	REFLECTED CEILING PLAN
AFF	ABOVE FINISH FLOOR	EXT	EXTERIOR	LONG / LONGIT	LONGITUDINAL	RD	ROOF DRAIN
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	F/	FACE OF	LP	LOWPOINT	RECEPT	RECEPTION(IST)
AL / ALUM	ALUMINUM	FE	FACE OF STUD	LVL	LAMINATED VENEER LUMBER	REF	REFERENCE / REFRIGERATOR
ALT	ALTERNATE	FB	FACE OF CURB	LWC	LIGHTWEIGHT CONCRETE	REIN	REINFORCING
APPROX	APPROXIMATE	FD	FLOOR DRAIN	M	MIRROR	REQ / REQ'D	REQUIRED
ARCH	ARCHITECT(URAL)	FDC	FIRE DEPARTMENT CONNECTION	M/E/P	MECHANICAL/ ELECTRICAL/ PLUMBING OR PROCESS	RM	ROOM
ATR	ALL-THREAD ROD	FE	FIRE EXTINGUISHER	MANF	MANUFACTURER	RO	ROUGH OPENING
		FF	FACTORY FINISH / FINISHED FACE	MAS	MASONRY	ROW	RIGHT OF WAY
B/	BOTTOM OF	FFE	FINISH FLOOR ELEVATION	MATL	MATERIAL	S	STAIN
BATT	BATTEN INSULATION	FIN	FINISH(ED)	MAX	MAXIMUM	SAT	SUSPENDED ACOUSTICAL TILE
BD	BOARD	FL	FLUSH	MB	MACHINE BOLT	SC	SEALED CONCRETE / SOLID CORE WOOD
BLD / BLDG	BUILDING	FLR	FLOOR	MDF/MDO	MEDIUM DENSITY FIBERBOARD / OVERLAY	SCHED	SCHEDULE
BLK	BLOCK	FM	FACTORY MUTUAL	MECH	MECHANICAL	SCM	STRUCTURAL CLAY MASONRY
BLCKG	BLOCKING	FN	FIELD NAILING	MFD	MANUFACTURED	SCWD	SOLID CORE WOOD DOOR
BM	BENCHMARK / BEAM	FND	FOUNDATION	MFG	MANUFACTURING	SF	STORE FRONT / SQUARE FEET
BN	BOUNDARY NAIL	FOC	FACE OF CONCRETE	MFR	MANUFACTURER	SFRS	SEISMIC FORCE RESISTING SYSTEM
BOT / BOTT	BOTTOM	FOF	FACE OF FINISH	MGR	MANAGER	SHTG / SHTG	SHEATHING
BRG	BEARING	FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR	MH	MAN HOLE	SIM	SIMILAR
BSMT	BASEMENT	FOIO	FURNISHED BY OWNER INSTALLED BY OWNER	MIN	MINIMUM	SLRS	SEISMIC LOAD RESISTIVE SYSTEM
BTWN	BETWEEN	FOM	FACE OF MASONRY	MISC	MISCELLANEOUS	SLV	SHORT LEG VERTICAL
BUR	BUILT UP ROOFING	FOS	FACE OF STUD	NIC	NOT IN CONTRACT	STD	STANDARD
		FOV	FACE OF WALL	NO / #	NUMBER	STIFF	STIFFENER
CAB	CABINET	FOW	FACE OF WALL	NOM	NOMINAL	STL	STEEL
CB	CATCH BASIN	FS	FAR SIDE	NR	NON RATED	STRUCT	STRUCTURAL
CDF	CONTROLLED DENSITY FILL	GR	GRADE	NS	NEAR SIDE	SUSP	SUSPENDED
CIP	CAST IRON	GRD	GRID ONLY	NTS	NOT TO SCALE	SV	SHEET VINYL
CJ	CONTROL JOINT	GSA	U.S. GENERAL SERVICES ADMINISTRATION	O/A	OVERALL	T	TEMPERED
CL	CEILING	GYP BD	GYPSUM BOARD	OC	ON CENTER	T&B	TOP AND BOTTOM
CLNG	CEILING	HB	HOSE BIB	OCI	OUTSIDE DIAMETER	T/	TOP OF
CLR	CLEAR	HC	HOLLOW CORE / HANDICAP	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	TC	TOP OF CURB
CLR ANNO	CLEAR ANNODIZED	HCM	HOLLOW CLAY MASONRY	OFOI	OWNER FURNISHED, OWNER INSTALLED	TEMP	TEMPERATURE / TEMPORARY
CMP	CORRUGATED METAL PIPE	HDPE	HIGH DENSITY POLYETHELENE	OH	OPPOSITE HAND	THK	THICK / THICKNESS
CMU	CONCRETE MASONRY UNIT	HDR	HEADER	OHD	OVERHEAD DOOR	TL	TOTAL LOAD
CO	CLEAN OUT	HDWR	HARDWARE	OPNG	OPENING	TN	TOE NAIL
COL	COLUMN	HGR	HANGER	OPP	OPPOSITE	TOF	TOP OF
CONC	CONCRETE	HL	HALF LITE	OSF / O/FACE	OUTSIDE FACE	TOW	TOP OF FOOTING
CONF	CONFERENCE	HM	HOLLOW METAL	OSSC	OREGON STRUCTURAL SPECIALTY CODE	TOS	TOP OF STEEL
CONN	CONNECTION	HMK	HOLLOW METAL KNOCKDOWN	OTS	OPEN TO STRUCTURE	TPO	THERMOPLASTIC POLYOLEFIN
CONST	CONSTRUCTION	HMW	HOLLOW METAL WELDED	P	PAINT	TRANS / TRANSV	TRANSVERSE
CONT	CONTINUOUS	HORIZ	HORIZONTAL	P-LAM	PLASTIC LAMINATE	TS	TUBE STEEL
CONTR	CONTRACTOR	HR(S)	HOUR(S)	P.E.	PROFFESIONAL ENGINEER	TYP	TYPICAL
COORD	COORDINATE	HS	HEADED STUD	PB	PARTICLE BOARD	UNO / UON	UNLESS NOTED OTHERWISE
CORR	CORRUGAT(ED) (ION)	HSB	HIGH STRENGTH BOLT	PDA / PAF	POWDER DRIVEN ANCHORS/POWDER ACTUATED FASTENER	USG	UNITED STATES GYPSUM
CPT	CARPET	HSS	HOLLOW STRUCTURAL STEEL	PJ	PANEL JOINT	VCT	VINYL COMPOSITION TILE
CRC	CHEMICAL RESISTANT COATING	HTG	HEATING	PLB / PL	PLATE	VERT	VERTICAL
CSK	COUNTERSINK	HVAC	HEATING, VENTILATION AND AIR CONDITIONING	PLB	PARALLAM BEAM	VEST	VESTIBULE
CSP	CONCRETE SEWER PIPE	HWS	HEADED WELD STUD	PLMB	PLUMBING	VIF	VERIFY
CTOP	COUNTERTOP	ID	INSIDE DIAMETER	PLY / PLYWD	PLYWOOD	VP	VISION PANEL
CTR / CNTR	CENTER	IE	INVERT ELEVATION	PNL	PANEL	W/	WITH
CW	CONCRETE WALL	IF	INSIDE FACE	PR	PAIR	WCRC	COATING WITH CHEMICAL RESISTANCE
		IMC	INTERNATIONAL MECHANICAL CODE	PREFIN	PREFINISHED	WIO	WITHOUT
d	PENNY(NAIL(S))	INFO	INFORMATION	PS	POUR STRIP	WB	WOOD BASE
DBA	DEFORMED BAR ANCHOR	INSP	INSPECTION / INSPECTOR	PSF	POUNDS PER SQUARE FOOT	WC	WATER CLOSET / WALL COVERING
DBL	DOUBLE	INT	INTERIOR	PSI	POUNDS PER SQUARE INCH	WD	WOOD
DCW	DEMAND CRITICAL WELD	IPC	INTERNATIONAL PLUMBING CODE	PSL	PARALLEL STRAND LUMBER	WF	WIDE FLANGE BEAM
DET / DTL	DETAIL					WH	WATER HEATER
DF	DRINKING FOUNTAIN / DOUGLAS FIR					WP	WATER PROOF / WOOD PANELING / WORK POINT
DIA / ø	DIAMETER					WR	WATER RESISTANT
DIAPH	DIAPHRAGM					WRGB	WATER RESISTANT GYPSUM BOARD
DIM	DIMENSION					WS	WATER STOP / WELDED STUD
DL	DEAD LOAD					WWF	WELDED WIRE FABRIC
DN	DOWN					WWR	WELDED WIRE MESH
DP	DEEP						
DR	DOOR						
DS	DOWN SPOUT						
DWG	DRAWING						
DWLS	DOWELS						
(E) / EXIST	EXISTING						
E/	EDGE OF						
EA	EACH						
EF	EACH FACE						
EIFS	EXTERIOR INSULATION FINISH SYSTEM						
ELECT	ELECTRICAL						
ELEV	ELEVATION						
EN	EDGE NAIL						
ENGR	ENGINEER						
EOP	EDGE OF PANEL						
EP	EPOXY PAINT / EDGE OF PAVEMENT						

ANNOTATION SYMBOLS

ELEVATION KEY MARK

PARTIAL/ENLARGED ELEVATION KEY MARK

INTERIOR ELEVATION KEY MARK

BUILDING SECTION KEY MARK

WALL SECTION KEY MARK

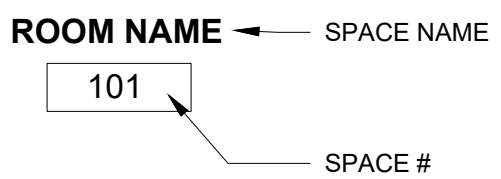
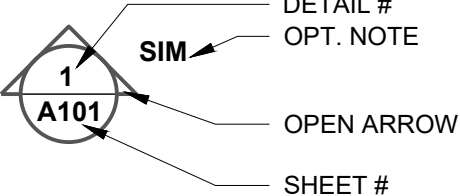
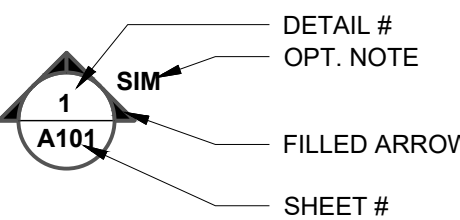
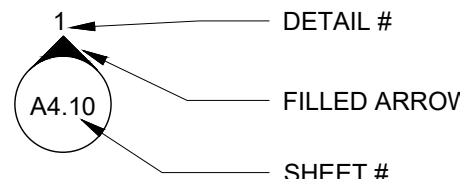
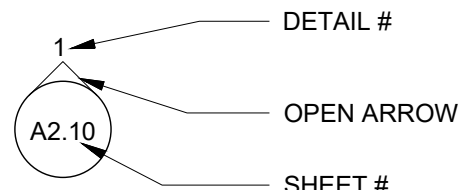
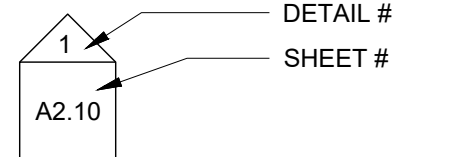
ROOM/SPACE IDENTIFICATION

DOOR NUMBER SYMBOL

WINDOW TYPE SYMBOL

MISC. SYMBOLS

CLEAN OUT	○ CO
DOWNSPOUT LOCATION	○ DS
FLOOR DRAIN	○ FD
FIRE EXTINGUISHER	◆
DOCK HIGH OVERHEAD DOOR	▲
DRIVE IN OVERHEAD DOOR	△
FUTURE OPENING	△
CONTROL JOINT	CJ
CONSTRUCTION JOINT	CONST JT
POUR STRIP	PS



PROJECT GENERAL NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE LATEST ADOPTED BUILDING CODE EDITION, AND TO CONDITIONS AND SPECIFICATIONS OF ALL GOVERNING AUTHORITIES.
- VERIFY AND CONFIRM ALL CONDITIONS, DIMENSIONS, AND LAYOUT INFORMATION PRIOR TO START OF CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO START OF WORK. ANY CORRECTION WORK REQUIRED AS A RESULT OF NOT REPORTING SUCH DISCREPANCIES SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR AND SUBCONTRACTORS SHALL CAREFULLY EXAMINE THE SITE AND THE CONSTRUCTION DOCUMENTS OF THE ENTIRE WORK. INCONSISTENCIES IN THE PLANS OR SPECIFICATIONS SHALL BE CALLED TO THE ATTENTION OF TENANT.
- REFER TO ENLARGED PLANS AND ELEVATIONS WHERE INDICATED FOR ADDITIONAL INFORMATION. ENLARGED PLANS TAKE PRECEDENCE OVER PLANS OF SMALLER SCALE, AND DETAILS TAKE PRECEDENCE OVER PLANS. IN THE CASE OF A CONFLICT, THE HIGHEST COST OPTION SHOULD BE PRICED.
- DETAIL REFERENCES SHALL BE APPLIED TO ALL INSTANCES WHERE THE SAME CONDITIONS OCCUR, UNLESS NOTED OTHERWISE.
- DIMENSIONS ARE TO STRUCTURAL GRID, CENTER LINE OF COLUMNS, AND FACE OF STUDS/CONCRETE WALL, UNLESS NOTED OTHERWISE.
- THE TERMS "ABOVE FINISH FLOOR" (AFF) AND "FINISH FLOOR ELEVATION" (FFE) REFER TO FINAL FINISHED FLOOR ELEVATION, WHETHER BUILT-UP SLAB, COMPOSITE DECK, OR RAISED ACCESS FLOOR.
- DO NOT SCALE DRAWINGS.
- CUTTING AND DRILLING OF STRUCTURAL MEMBERS NOT DETAILED REQUIRES THE WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER OF RECORD.
- SAVE AND RECYCLE DEMOLITION DEBRIS AS APPLICABLE. ALL DEMOLISHED OR REMOVED EXISTING MATERIAL SHALL BE LEGALLY DISPOSED. COORDINATE WITH AUTHORITY HAVING JURISDICTION FOR REQUIREMENTS FOR RECYCLING/RE-USE OF DEMOLITION DEBRIS.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE RESULTING FROM THEIR WORK. THE CONTRACTOR WILL COORDINATE CLEAN UP OF ALL AREAS AFFECTED BY DUST OR ANY MATERIALS, BOTH DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT, INCLUDING THE INSIDE OF ALL WINDOWS AS NECESSARY SO THAT THE SPACE IS READY FOR OCCUPANCY BY TENANT.
- THROUGHOUT THESE DOCUMENTS REFERENCES ARE MADE TO FOIO AND FTIT. IN THE EXECUTION OF THIS DESIGN THE OWNER AND TENANT ARE THE SAME ENTITY.



Date	02/17/2023	08/16/2023	10/27/2023				
Revision/Submissions							

No.	PERMIT SET	ILL SUBMISSION	PERMIT SET RESUBMIT				
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DELIVERY STATION EXPANSION

EXTERIOR IMPROVEMENTS  
400 ORITANI DRIVE  
ORANGETOWN, NY 10913



Project No.	759025-01
Scale	AS SHOWN
Drawn	JMJ
Checked	JAT
Date	02/17/2023
Drawing Title	PHASE 1 SITE

PROJECT GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS

Drawing No.	G0.02
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- PERFORMANCE STANDARDS REVIEWED BY TOWN OF ORANGETOWN ZONING BOARD: JANUARY 22, 2020 AS ZBA#20-08 AND ZBA#20-09
- TOTAL AREA OF DISTURBANCE (A.O.D.) = 0.00 ACRES
- THE MAXIMUM SOIL EXPOSURE LIMIT IS 14 DAYS
- LOT DRAINAGE SHOWN SHALL CONSTITUTE EASEMENTS RUNNING WITH THE LAND AND ARE NOT TO BE DISTURBED
- ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE, SHALL BE INSTALLED UNDERGROUND
- THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 238LM OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK
- AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF ANY WORK, INCLUDING THE INSTALLATION OF EROSION CONTROL DEVICES OR THE REMOVAL OF TREES AND VEGETATION, A PRE-CONSTRUCTION MEETING MUST BE HELD WITH THE TOWN OF ORANGETOWN DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND ENGINEERING, SUPERINTENDENT OF HIGHWAYS AND THE TOWN ENGINEER, ZONING, AND PLANNING ADMINISTRATION AND ENFORCEMENT. IT IS THE RESPONSIBILITY AND OBLIGATION OF THE PROPERTY OWNER TO ARRANGE SUCH A MEETING.
- ALL OUTDOOR CONSTRUCTION ACTIVITIES, INCLUDING SITE-CLEARING OPERATIONS IF APPLICABLE, SHALL TAKE PLACE BETWEEN THE HOURS OF 7:00 A.M. AND 7:00 P.M., MONDAY THROUGH SATURDAY. NO SUCH ACTIVITIES SHALL TAKE PLACE ON SUNDAY OR A LEGAL HOLIDAY. THE SAME CRITERIA SHALL APPLY TO INDOOR CONSTRUCTION ACTIVITIES, EXCEPT THAT SUCH ACTIVITIES MAY TAKE PLACE BETWEEN THE HOURS OF 7:00 A.M. AND 10:00 P.M.

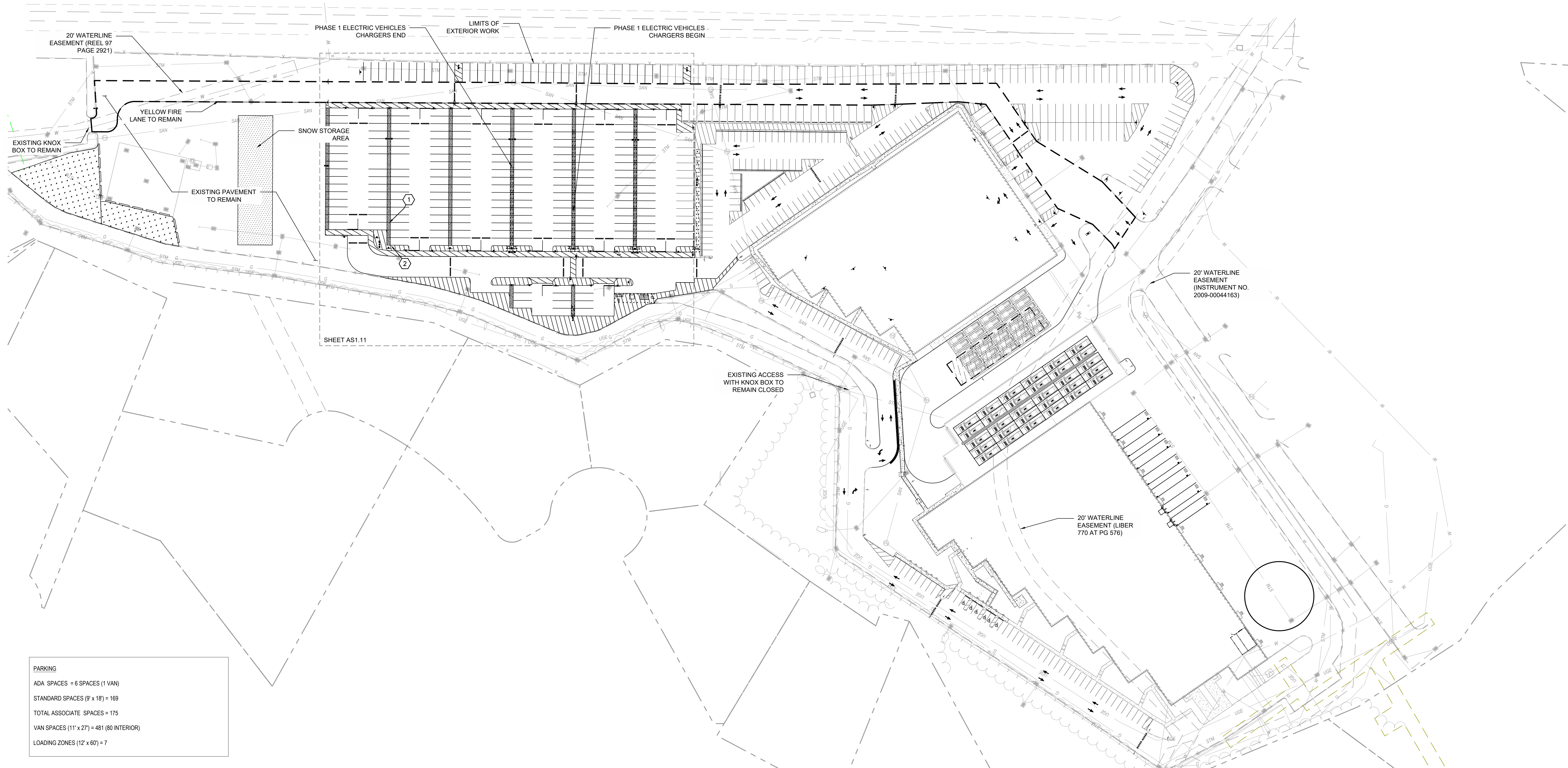
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL NEW YORK ONE CALL AND ALL UTILITY COMPANIES TO SCHEDULE ANY UTILITY SERVICE REMOVAL AND/OR ABANDONMENT. ALL UTILITIES SHALL BE REMOVED AND/OR RELOCATED PER THE SPECIFICATIONS OF THE UTILITY COMPANIES. THE CONTRACTOR IS RESPONSIBLE TO PAY ALL FEES AND CHARGES ASSOCIATED WITH THIS WORK.
2. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL TOWN/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
3. ALL MATERIAL NOTED ON DRAWINGS WILL BE SUPPLIED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF RAMPS.
5. ALL DIMENSIONS AND RADII ARE TO THE FACE OF THE CURB OR EDGE OF PAVEMENT, AS APPLICABLE, UNLESS OTHERWISE NOTED.
6. PROVIDE STRIPING AS SHOWN. PARKING STALLS SHALL BE PAINTED WITH 4" WHITE, WIDE LINES. KILL WEEDS, CLEAN, POWER WASH AND REMOVE ANY EXISTING RESTRIPING THAT CONFLICTS WITH PROPOSED STRIPING. COORDINATE ADDITIONAL SITE MAINTENANCE WITH TENANT C/L.
7. REFER TO MECHANICAL PLANS FOR EQUIPMENT LAYOUT.
8. REFER TO ELECTRICAL PLANS FOR ELECTRICAL WORK.
9. REFER TO ORIGINAL SURVEY PROVIDED BY BLEW & ASSOCIATES, DATED 10/31/2019.
10. REFER TO CURRENT VERSION OF TENANT SIGNAGE STANDARDS DOCUMENT FOR ALL SIGN AND PAVEMENT GRAPHICS AND DETAILS.

- 1) PROPOSED ELECTRIC VEHICLE CHARGER POST WITH BOLLARD PROTECTION. REFER TO ELECTRIC VEHICLE CHARGER INSTALLATION - PHASE 1 PLANS PREPARED BY CEC, INC.
- 2) PROPOSED ELECTRICAL EQUIPMENT WITH BOLLARD PROTECTION. REFER TO ELECTRIC VEHICLE CHARGER INSTALLATION - PHASE 1 PLANS PREPARED BY CEC, INC.



MINIMUM FRONT BUILDING SETBACK (EAST)	100 FEET	70.7 FEET	NO CHANGE
MINIMUM SIDE BUILDING SETBACK (SOUTH)	100 FEET	102.5 FEET	NO CHANGE
MINIMUM SIDE BUILDING SETBACK (NORTH)	100 FEET	234.7 FEET	NO CHANGE
MINIMUM SIDE BUILDING SETBACK (BOTH)	200 FEET	337.2 FEET	NO CHANGE
MINIMUM REAR BUILDING SETBACK (WEST)	100 FEET	130.7 FEET	NO CHANGE
MAXIMUM FLOOR RATIO	0.4	0.2	NO CHANGE
BUILDING HEIGHT	± 42.5 FEET	± 33 FEET	NO CHANGE
PARKING REQUIREMENTS	ONE SPACE FOR EVERY 2 EMPLOYEES	SEE PARKING TABLE ON THIS SHEET	NO CHANGE
MINIMUM ACCESSIBLE STALLS	6 SPACES FOR 151 - 200 TOTAL PROVIDED SPACES, 1 VAN	6 SPACES (1 VAN)	NO CHANGE
MINIMUM PARKING DIMENSIONS	9 FEET X 18 FEET	9 FEET X 19 FEET	NO CHANGE
MINIMUM AISLE WIDTH	22 FEET	24 FEET	NO CHANGE
MINIMUM PARKING SETBACK	25 FEET	± 87 FEET	NO CHANGE
IMPERVIOUS LAND COVERAGE	MAX 75%	80.30%	NO CHANGE

## SEE PAGE AS1.11



## DELIVERY STATION EXPANSION

400 ORITANI DRIVE  
ORANGETOWN, NY 10913



11/02/2023

Project No. 759025-01

Scale AS SHOWN

Drawn	JMJ
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Checked	JAT
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Date	02/17/2023
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PHASE 1 SITE

Drawing Title

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ARCHITECTURAL

### ARCHITECTURAL SITE PLAN

## SITE PLAN

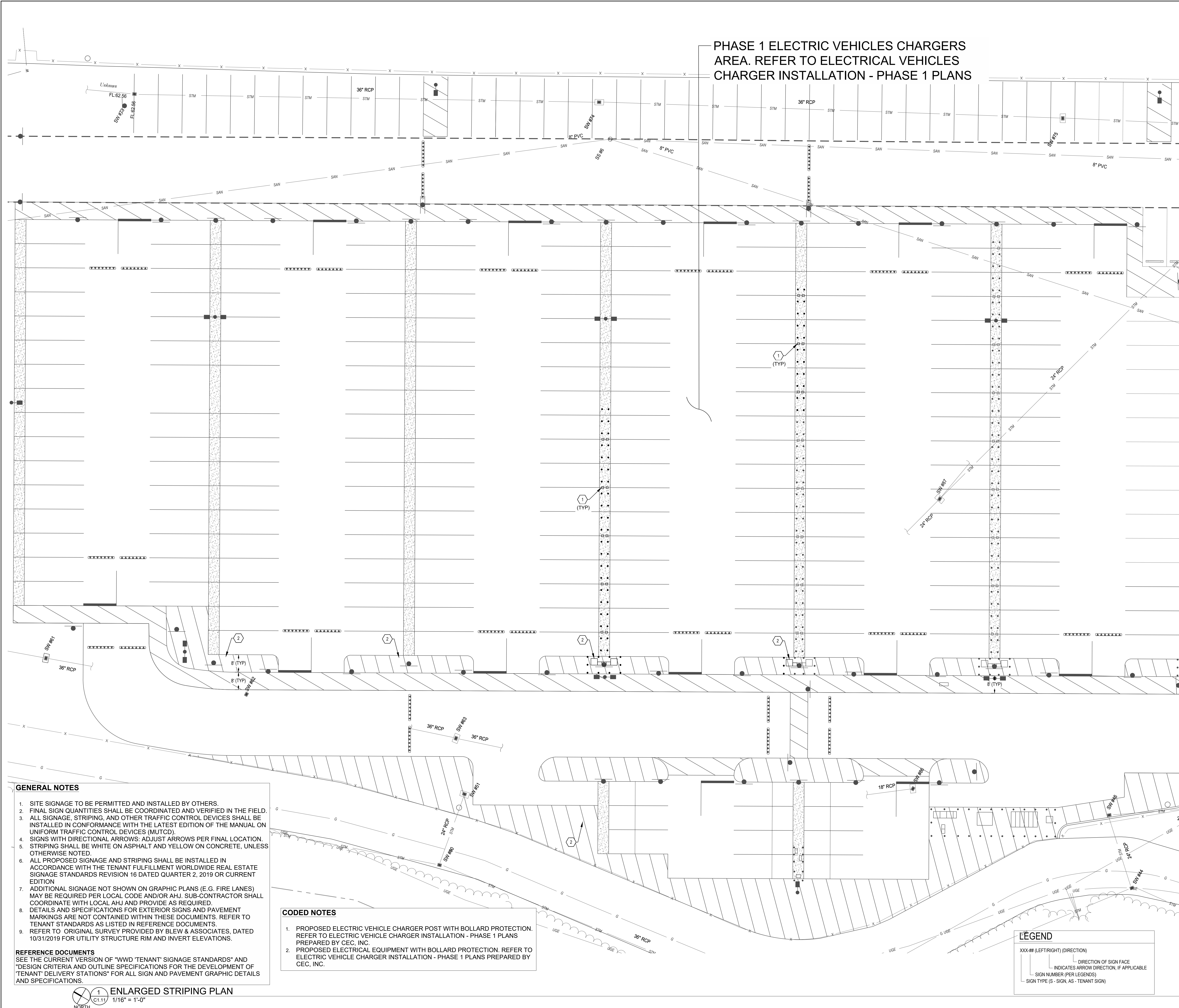
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Drawing No. \_\_\_\_\_

## AS1.10

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PHASE 1 ELECTRIC VEHICLES CHARGERS  
AREA. REFER TO ELECTRICAL VEHICLES  
CHARGER INSTALLATION - PHASE 1 PLANS

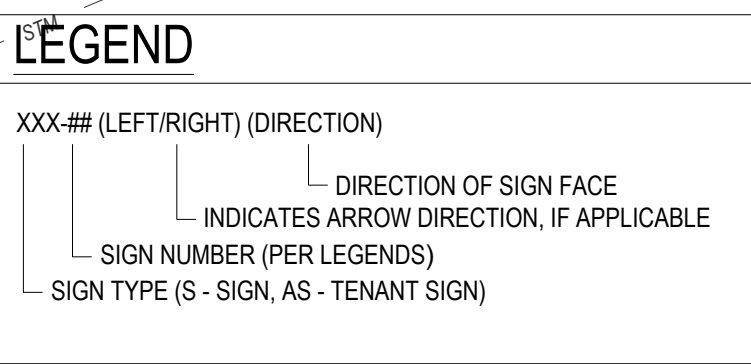
GENERAL SIGN FACE LEGEND	
CODE	DESCRIPTION
S-1	STOP SIGN
S-2	DO NOT ENTER
S-3	SPEED LIMIT, 5 MPH
S-3 (MOD)	SPEED BUMP WITH 5 MPH PLACARD
S-4	SPEED LIMIT, 10 MPH
S-5(L)	PEDESTRIAN CROSSING, LEFT ARROW
S-5(R)	PEDESTRIAN CROSSING, RIGHT ARROW
S-7(L)	ONE-WAY, LEFT ARROW
S-7(R)	ONE-WAY, RIGHT ARROW
S-8(L)	LEFT TURN ONLY
S-8(R)	RIGHT TURN ONLY
S-11(L)	NO LEFT TURN
S-12	NO U-TURN
S-13	TRUCKS PROHIBITED
S-14	NO PARKING
S-15	ACCESSIBLE PARKING SIGN
S-16	VAN ACCESSIBLE PARKING SIGN
S-17	NO TRESPASSING
S-18	ELECTRIC VEHICLE PARKING ONLY
S-19	CLEAN AIR VEHICLE
S-20(R)	MEDIAN SIGN, RIGHT DIRECTIONAL ARROW
S-23(L)	CHEVRON, LEFT ARROW
S-23(R)	CHEVRON, RIGHT ARROW
S-51	LAUNCH PAD SIGNAGE
S-97	NOTICE, SUBJECT TO INSPECTION

TENANT SIGN FACE LEGEND	
CODE	DESCRIPTION
AG-16	CARBON MON. WARNING
AG-21	DO NOT PROP. DOOR OPEN
AG-22	TOR ACCESS
AS-1	ADDRESS SIGN
AS-2	TRUCKS VISITOR USHER
AS-4	TRAILER INSPECTION
AS-5	YARD RULES
AS-6	TRUCK ENTRANCE
AS-7	DRIVER'S LOUNGE
AS-10	TRACTOR PARKING
AS-12	TRAILERS MUST BE 3FT FROM WALL
AS-13	NO ENTRANCE
AS-14	NO EXIT
AS-15(L)	EXIT, LEFT ARROW
AS-15(R)	EXIT, RIGHT ARROW
AS-16	WAYFINDING
AS-17	ENTRY RULES
AS-18	DROP-OFF/PICK-UP AREA, RIGHT ARROW
AS-19	MIRRORED DOCK NUMBER
AS-22	DROP-OFF AND PICK-UP
AS-23(L)	MAIN ENTRANCE, LEFT ARROW
AS-23(R)	MAIN ENTRANCE, RIGHT ARROW
AS-23(S)	MAIN ENTRANCE, STRAIGHT ARROW
AS-25	VENDOR PARKING
AS-26	MUSTER AREA
AS-27	EGRESS DOOR NOTICE
AS-28	BUILDING SERVICES DOOR
AS-30	NON-SMOKING AREA
AS-33(L)	PICK-UP/DROP-OFF, LEFT ARROW
AS-33(R)	PICK-UP/DROP-OFF, RIGHT ARROW
AS-33(S)	PICK-UP/DROP-OFF, STRAIGHT ARROW
AS-37	NO IDLING
AS-38	TURN OFF ENGINE
AS-39	TRAILER PARKING SIGN
AS-39	PARKING LOT DESIGNATION
AS-41	NO IDLING ZONE
AS-43	DRIVE LANE
AS-44	DRIVE THRU
AS-50	LAUNCH PAD SIGNAGE
AS-60	DOOR DOCK NUMBER
AS-62	ASSOCIATE ENTRANCE
AS-63	TDM ENTRANCE ONLY
AS-68	PARKING LOCATION
AS-85	VAN STALL WAYFINDING
AS-85(R)	VAN STALL WAYFINDING, RIGHT ARROW
AS-85(L)	VAN STALL WAYFINDING, LEFT ARROW
AS-85(S)	VAN STALL WAYFINDING, STRAIGHT ARROW
AS-86(L)	VAN PROBLEM SOLVE SPACE, LEFT ARROW
AS-86(R)	VAN PROBLEM SOLVE SPACE, RIGHT ARROW
AS-86(S)	VAN PROBLEM SOLVE SPACE, STRAIGHT ARROW
AS-97a	VAN PROBLEM SOLVE SPACE, FIRST SPACE
AS-97b	VAN PROBLEM SOLVE SPACE, ADDITIONAL SPACES

STRIPING (PAVEMENT GRAPHIC) LEGEND	
CODE	DESCRIPTION
PG-1	STOP BAR
PG-3	STRAIGHT ARROW
PG-6(L)	LEFT TURN ARROW
PG-6(R)	RIGHT TURN ARROW
PG-7(L)	STRAIGHT OR LEFT TURN ARROW
PG-7(R)	STRAIGHT OR RIGHT TURN ARROW
PG-8	LEFT OR RIGHT TURN ARROW
PG-9	LEFT, STRAIGHT, OR RIGHT TURN ARROW
PG-10	18" STRIPING OUTLINE AND HATCH @ 36" O.C. (WHITE)
PG-11	12" STRIPING OUTLINE AND HATCH @ 36" O.C. (WHITE)
PG-12	12" STRIPING OUTLINE AND HATCH @ 36" O.C. (YELLOW)
PG-14	TRAILER SPACE NUMBERING
PG-15	SPEED HUMP
PG-16	SPEED BUMP
PG-17	ACCESSIBLE CAR PARKING
PG-18	ACCESSIBLE VAN PARKING
PG-20	PEDESTRIAN TABLE
PG-21	EMPTY TRAILER SLIP
PG-22	TRACTOR DOCK PARKING
PG-23	JACK STAND AREA
PG-24	WARNING LINE
PG-25	VAN STALL NUMBER
PG-26	BYPASS LANE
PG-27	DRIVE LANE

- GENERAL NOTES**
- SITE SIGNAGE TO BE PERMITTED AND INSTALLED BY OTHERS.
  - FINAL SIGN QUANTITIES SHALL BE COORDINATED AND VERIFIED IN THE FIELD.
  - ALL SIGNAGE, STRIPING, AND OTHER TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
  - SIGNS WITH DIRECTIONAL ARROWS: ADJUST ARROWS PER FINAL LOCATION.
  - STRIPING SHALL BE WHITE ON ASPHALT AND YELLOW ON CONCRETE, UNLESS OTHERWISE NOTED.
  - ALL PROPOSED SIGNAGE AND STRIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE TENANT FULFILLMENT WORLDWIDE REAL ESTATE SIGNAGE STANDARDS REVISION 16 DATED QUARTER 2, 2019 OR CURRENT EDITION.
  - ADDITIONAL SIGNAGE NOT SHOWN ON GRAPHIC PLANS (E.G. FIRE LANES) MAY BE REQUIRED PER LOCAL CODE AND/OR AHJ. SUB-CONTRACTOR SHALL COORDINATE WITH LOCAL AHJ AND PROVIDE AS REQUIRED.
  - DETAILS AND SPECIFICATIONS FOR EXTERIOR SIGNS AND PAVEMENT MARKINGS ARE NOT CONTAINED WITHIN THESE DOCUMENTS. REFER TO TENANT STANDARDS AS LISTED IN REFERENCE DOCUMENTS.
  - REFER TO ORIGINAL SURVEY PROVIDED BY BLEW & ASSOCIATES, DATED 10/31/2019 FOR UTILITY STRUCTURE RIM AND INVERT ELEVATIONS.
- REFERENCE DOCUMENTS**
- SEE THE CURRENT VERSION OF "WWD TENANT" SIGNAGE STANDARDS AND "DESIGN CRITERIA AND OUTLINE SPECIFICATIONS FOR THE DEVELOPMENT OF TENANT DELIVERY STATIONS" FOR ALL SIGN AND PAVEMENT GRAPHIC DETAILS AND SPECIFICATIONS.

- CODED NOTES**
- PROPOSED ELECTRIC VEHICLE CHARGER POST WITH BOLLARD PROTECTION. REFER TO ELECTRIC VEHICLE CHARGER INSTALLATION - PHASE 1 PLANS PREPARED BY CEC, INC.
  - PROPOSED ELECTRICAL EQUIPMENT WITH BOLLARD PROTECTION. REFER TO ELECTRIC VEHICLE CHARGER INSTALLATION - PHASE 1 PLANS PREPARED BY CEC, INC.



Date	02/17/2023	08/16/2023	10/27/2023
Revision/Summaries			
PERMIT SET	YES	NO	NO
DOC SUBMISSION	YES	NO	NO
PERMIT SET RESUBMIT	YES	NO	NO

**DELIVERY STATION EXPANSION**

EXTERIOR IMPROVEMENTS

400 ORITANI DRIVE

ORANGETOWN, NY 10913

Project No. 759025-01

Scale AS SHOWN

Drawn JMJ

Checked JAT

Date 02/17/2023

Drawing Title PHASE 1 SITE

**SITE PLAN - PHASE 1**

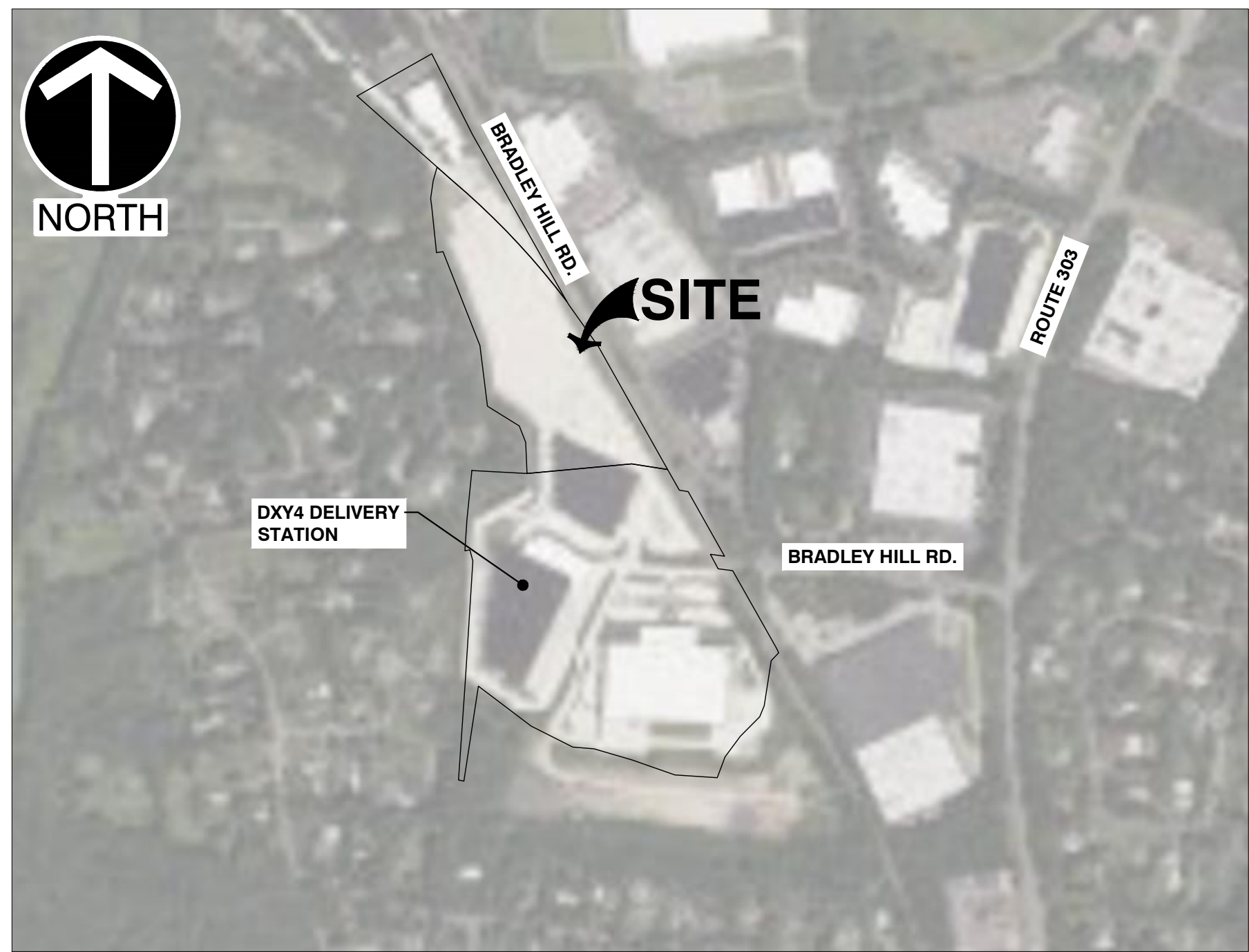
Drawing No. **AS1.11**



# ELECTRIC VEHICLE CHARGER INSTALLATION

## DXY4 DELIVERY STATION

400 ORITANI DRIVE  
ORANGETOWN, NY 10913  
PERMIT DRAWING SET - PHASE 1



SITE VICINITY MAP  
REFERENCE: AUTODESK GEOLOCATION AERIAL IMAGERY, OBTAINED IN 2022.

SCALE IN FEET  
0 500 1,000

### PROJECT DESCRIPTION

THIS PROJECT WILL CONSIST OF 2 PHASES OF CONSTRUCTION. AMAZON PLANS TO INSTALL 40 LEVEL 2 ELECTRIC VEHICLE (EV) CHARGERS DURING PHASE 1 OF CONSTRUCTION. ASSOCIATED ELECTRICAL GEAR WITH CONCRETE PADS, CONDUCTORS, AND BOLLARDS WILL BE INSTALLED.

ESTIMATED CONSTRUCTION SCHEDULE - START: TBD

### DEVELOPMENT TEAM

**TENANT**  
AMAZON.COM SERVICES, INC.  
410 TERRY AVENUE NORTH  
SEATTLE, WA 98109

C.M. CONTACT: JOSHUA GATES  
PHONE: 520.907.2766  
EMAIL: JOSHGATE@AMAZON.COM

**CIVIL ENGINEER**  
CIVIL & ENVIRONMENTAL CONSULTANTS OF  
NEW YORK, INC.  
908 NIAGARA FALLS BOULEVARD, SUITE 203  
NORTH TANAWANDA, NY 14120

CONTACT: ETHAN BRICE  
PHONE: 412.275.2974  
EMAIL: EBRICE@CECINC.COM

**ELECTRICAL**  
EMANUELSON-PODAS, INC.  
7705 BUSH LAKE ROAD  
EDINA, MN 55439

CONTACT: TOM ROBERTS  
PHONE: 952.255.6212  
EMAIL: TROBERTS@EPINC.COM

### REFERENCES

- EXISTING BACKGROUND AND UTILITY INFORMATION OBTAINED FROM AMAZON.COM LLC ON 10/13/2022. EXISTING SURVEY COMPLETED BY BLEW & ASSOCIATES, PA. CAD FILE NAME: 19-5589-CE50-200 Oritani-Blouvelt NY Preliminary-04.20.2020\_CAD.DWG, DATED: 4/20/2020.
- SITE DESIGN INFORMATION OBTAINED FROM AMAZON.COM LLC ON 10/12/2022. RECORD DRAWINGS COMPLETED BY CECO ARCHITECTS, INC. PDF FILE NAME: DXY4\_E1-Permit Set-54 Building Permit-Rev0-20220810; CAD FILE NAME: DXY4\_E1-Site Concept-Rev3-20221010.DWG, DATED: 8/10/2022.

### SHEET INDEX

SHEET NUMBER	SHEET TITLE	PERMIT DRAWING SET PHASE 1 (Issued 2/01/2023)	PERMIT DRAWING SET PHASE 1 (Issued 10/02/2023)
GENERAL			
PREPARED BY: CIVIL & ENVIRONMENTAL CONSULTANTS OF NEW YORK, INC.			
G0.00-BP1	COVER SHEET	•	•
CIVIL			
PREPARED BY: CIVIL & ENVIRONMENTAL CONSULTANTS OF NEW YORK, INC.			
C1.00-BP1	EXISTING CONDITIONS PLAN	•	•
C2.00-BP1	EV CHARGER INSTALLATION SITE PLAN	•	•
C8.00-BP1	DETAIL SHEET (1 OF 2)	•	•
C8.01-BP1	DETAIL SHEET (2 OF 2)	•	•
C9.00-BP1	EROSION & SEDIMENTATION CONTROL PLAN	•	•
C9.01-BP1	EROSION & SEDIMENTATION CONTROL NOTES AND DETAILS	•	•
ELECTRICAL			
PREPARED BY: EMANUELSON-PODAS, INC.			
E0.00-BP1	ELECTRICAL TITLE SHEET	•	•
E0.10-BP1	ELECTRICAL SITE PLAN	•	•
E1.11-BP1	ELECTRICAL ENLARGED DISTRIBUTION PLAN	•	•
E5.00-BP1	ELECTRICAL ONE-LINE DIAGRAM	•	•
E6.00-BP1	PANEL SCHEDULES	•	•
E7.01-BP1	ELECTRICAL DETAILS	•	•
E7.02-BP1	ELECTRICAL DETAILS	•	•
E8.00-BP1	ELECTRICAL SPECIFICATIONS	•	•
E8.01-BP1	ELECTRICAL SPECIFICATIONS	•	•
E8.02-BP1	ELECTRICAL SPECIFICATIONS	•	•
E8.03-BP1	ELECTRICAL SPECIFICATIONS	•	•

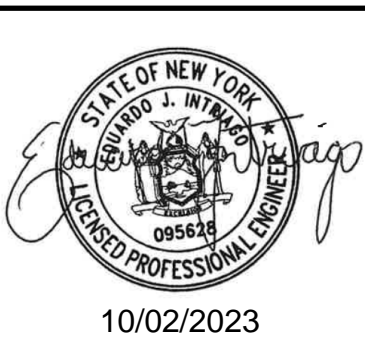
### GENERAL NOTES

- EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE BASED UPON RECORD DRAWINGS PROVIDED BY AMAZON. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT FROM THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- EXISTING SITE INFORMATION WAS PREPARED BY CECO AND CONSISTS OF DESIGN INFORMATION FROM THE DXY4 SITE CONSTRUCTION PLANS AND SURVEY (GAS, WATER, STORM SEWER, SANITARY SEWER, ELECTRIC CONDUIT). CEC IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. INFORMATION SHOWN IS APPROXIMATE IN SIZE AND LOCATION AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES (INCLUDING THOSE LABELED PER RECORD DATA) PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS. INFORM ENGINEER OF ANY CONFLICTS DETRIMENTAL TO THE DESIGN INTENT.
- 48 HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE DIG SAFELY NEW YORK CALL BEFORE YOU DIG (DSNY) SERVICES, AND ALL OTHER AGENCIES THAT MAY HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON-MEMBERS OF THE DSNV.
- THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO NOTIFY, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
- THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND OWNER'S REPRESENTATIVE FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES OCCURRING IN THE COURSE OF THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, OBTAIN ALL APPLICABLE PERMITS, AND PAY ALL REQUIRED FEES PRIOR TO BEGINNING WORK.
- ANY WORK PERFORMED IN THE TOWN OF ORANGETOWN OR NEW YORK DEPARTMENT OF TRANSPORTATION RIGHTS OF WAY SHALL BE IN ACCORDANCE WITH THE APPLICABLE LOCAL OR STATE REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS FOR THE WORK, SCHEDULE NECESSARY INSPECTIONS, AND PROVIDE THE NECESSARY TRAFFIC CONTROL MEASURES AND DEVICES, ETC., FOR WORK PERFORMED IN THE RIGHT OF WAYS.
- CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL PRACTICES REQUIRED BY THE CITY OF ORANGETOWN AND THE NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
- ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND FINAL GRADING, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH NY GUIDELINES.
- ALL WORK PERFORMED BY THE CONTRACTOR SHALL CONFORM TO THE LATEST REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.
- THE CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.
- SITE SIGNAGE AND STRIPING SHALL BE IN ACCORDANCE WITH THE NEW YORK MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL CHECK EXISTING GRADES, DIMENSIONS, AND INVERTS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, INCLUDING IRRIGATION LINES. THE CONTRACTOR SHALL TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. RELOCATE EXISTING UTILITIES AS INDICATED, OR AS NECESSARY FOR CONSTRUCTION.
- THE EROSION AND SEDIMENT CONTROL BMPs SHOWN HEREON HAVE BEEN DESIGNED USING BEST AVAILABLE INFORMATION. SOME LIMITATIONS ARE INHERENT, INCLUDING THE INABILITY TO DEPICT LOCALIZED DEVIATIONS. SITE SPECIFIC CONDITIONS SUCH AS ROCK OUTCROPPINGS, TREES, STUMPS, UTILITIES, FENCES, OR FEATURES INSTALLED SUBSEQUENT TO PROCUREMENT OF TOPOGRAPHIC MAPPING MAY NOT BE REFLECTED ON THE PLAN. THE INTENT OF THIS PLAN IS TO MINIMIZE EROSION AND PREVENT SEDIMENT - LADEN RUNOFF FROM DISCHARGING BEYOND THE LIMITS OF CONSTRUCTION OR TO SENSITIVE NATURAL RESOURCES. BMPs SHALL BE INSTALLED AS CLOSELY AS POSSIBLE TO THE LOCATIONS INDICATED ON THE PLANS; HOWEVER DEVIATIONS MAY BE REQUIRED TO ADDRESS APPROPRIATE LIMITATIONS AND SITE-SPECIFIC CONDITIONS AND PROTECT THE ENVIRONMENT.



NEW YORK LAW REQUIRES AT LEAST 2 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE - STOP CALL DIG SAFELY NEW YORK INC. 1-800-962-7982  
NEW YORK STATE CODE RULE 753 (1997) AS AMENDED IN JULY 2002 AND JANUARY 2012 REQUIRES NO LESS THAN 2 WORKING DAYS NOTICE NOR MORE THAN 10 WORKING DAYS NOTICE FROM EXCAVATORS WHO ARE ABOUT TO DIG, DRILL, BLAST, AUGER, BORE, GRADE, TRENCH, OR DEMOLISH WHEN IN THE CONSTRUCTION PHASE. FOR LOCATION REQUESTS IN THE STATE OF NEW YORK, SUBMIT A REQUEST ONLINE VIA DIG SAFELY NEW YORK'S ENTRY PLATFORM EXACTIX OR CALL TOLL FREE 1-800-962-7982.  
UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THE LOCATION MUST BE CONSIDERED APPROXIMATE. OTHER UNDERGROUND UTILITIES MAY EXIST WHICH ARE NOT SHOWN. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN ALL PHYSICAL LOCATIONS OF UTILITY LINES PRIOR TO THE TIME OF CONSTRUCTION. IN NO WAY SHALL THE CONTRACTOR HOLD THE SURVEYOR RESPONSIBLE FOR ANY UTILITY LOCATION SHOWN ON THIS PLAN.

**PRELIMINARY**  
**NOT FOR CONSTRUCTION**



DRAWING NO.:  
**G0.00-BP1**

COVER SHEET

DATE: NOVEMBER 23, 2022  
DRAWN BY: [Signature]  
AS SHOWN CHECKED BY: [Signature]  
PROJECT NO.: 395-198  
APPROVED BY: [Signature]

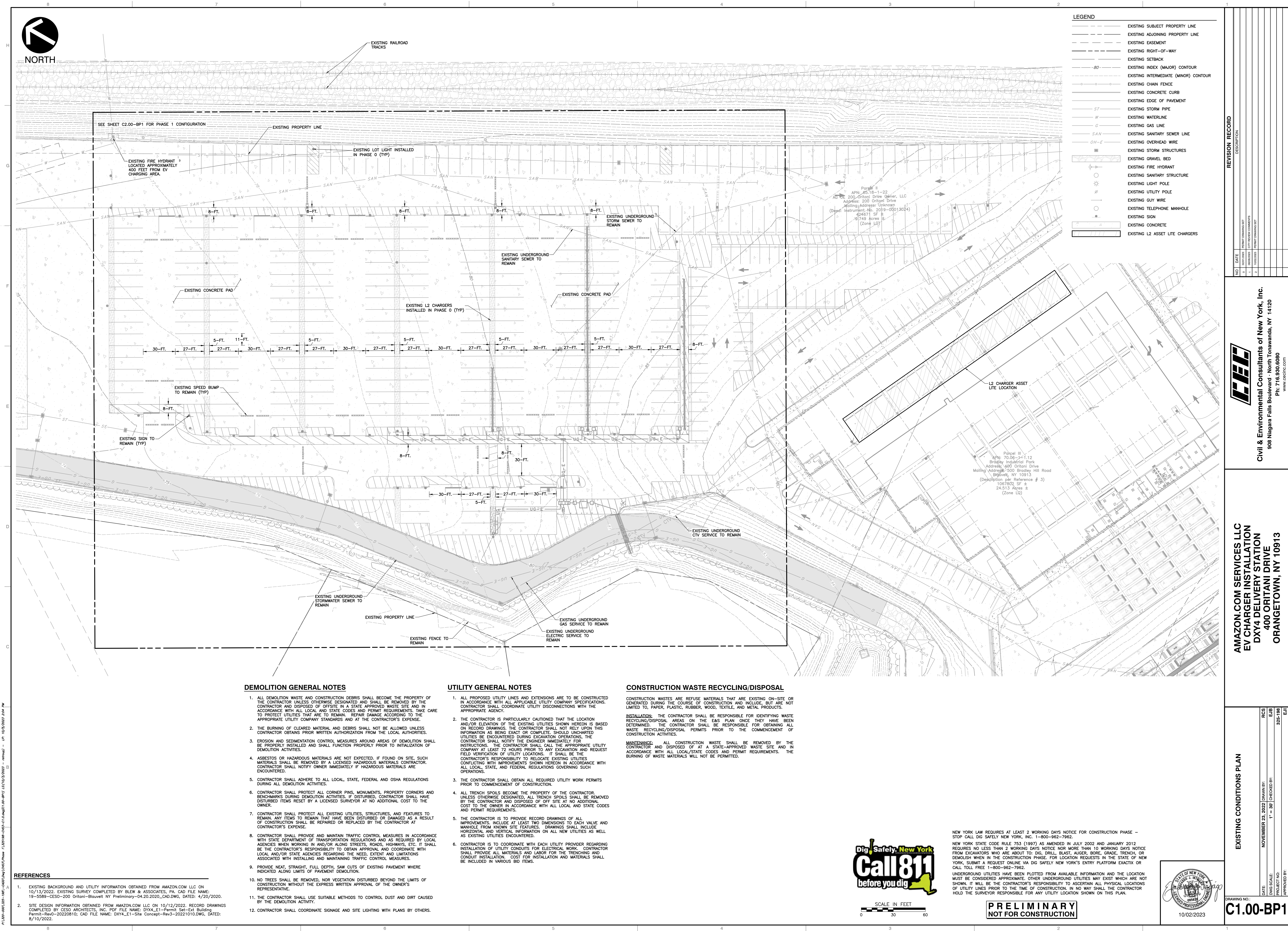
AMAZON.COM SERVICES LLC  
EV CHARGER INSTALLATION  
DXY4 DELIVERY STATION  
400 ORITANI DRIVE  
ORANGETOWN, NY 10913

Civil & Environmental Consultants of New York, Inc.  
908 Niagara Falls Boulevard · North Tonawanda, NY 14120  
Ph: 716.930.6080  
www.cecinc.com

REVISION RECORD

NO.	DATE	DESCRIPTION
1.	10/01/2023	PERMIT DRAWING SET
2.	10/02/2023	PERMIT DRAWING SET





LEGEND	
	EXISTING SUBJECT PROPERTY LINE
	EXISTING ADJOINING PROPERTY LINE
	EXISTING EASEMENT
	EXISTING RIGHT-OF-WAY
	EXISTING SETBACK
	EXISTING INDEX (MAJOR) CONTOUR
	EXISTING INTERMEDIATE (MINOR) CONTOUR
	EXISTING CHAIN FENCE
	EXISTING CONCRETE CURB
	EXISTING EDGE OF PAVEMENT
	EXISTING STORM PIPE
	EXISTING WATERLINE
	EXISTING GAS LINE
	EXISTING SANITARY SEWER LINE
	EXISTING OVERHEAD WIRE
	EXISTING STORM STRUCTURES
	EXISTING GRAVEL BED
	EXISTING FIRE HYDRANT
	EXISTING SANITARY STRUCTURE
	EXISTING LIGHT POLE
	EXISTING UTILITY POLE
	EXISTING GUY WIRE
	EXISTING TELEPHONE MANHOLE
	EXISTING SIGN
	EXISTING CONCRETE
	EXISTING L2 ASSET LITE CHARGERS

REVISION RECORD

NO	DATE	DESCRIPTION
1	10/02/2023	PERMIT DRAWING SET
2	10/02/2023	PERMIT REVIEW COMMENTS
3	10/02/2023	PERMIT DRAWING SET



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**AMAZON.COM SERVICES LLC**  
EV CHARGER INSTALLATION  
DY44 DELIVERY STATION  
400 ORITANI DRIVE  
ORANGETOWN, NY 10913

DEMOLITION GENERAL NOTES

- ALL DEMOLITION WASTE AND CONSTRUCTION DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED AND SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR DAMAGE ACCORDING TO THE APPROPRIATE UTILITY COMPANY STANDARDS AND AT THE CONTRACTOR'S EXPENSE.
- THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED UNLESS CONTRACTOR OBTAINS PRIOR WRITTEN AUTHORIZATION FROM THE LOCAL AUTHORITIES.
- EROSION AND SEDIMENTATION CONTROL MEASURES AROUND AREAS OF DEMOLITION SHALL BE PROPERLY INSTALLED AND SHALL FUNCTION PROPERLY PRIOR TO INITIALIZATION OF DEMOLITION ACTIVITIES.
- ASBESTOS OR HAZARDOUS MATERIALS ARE NOT EXPECTED. IF FOUND ON SITE, SUCH MATERIALS SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF HAZARDOUS MATERIALS ARE ENCOUNTERED.
- CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL AND OSHA REGULATIONS DURING ALL DEMOLITION ACTIVITIES.
- CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, STRUCTURES, AND FEATURES TO REMAIN. ANY ITEMS TO REMAIN THAT HAVE BEEN DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH STATE DEPARTMENT OF TRANSPORTATION REGULATIONS AND AS REQUIRED BY LOCAL AGENCIES WHEN WORKING IN AND/OR ALONG STREETS, ROADS, HIGHWAYS, ETC. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL AND COORDINATE WITH LOCAL AND/OR STATE AGENCIES REGARDING THE NEED, EXTENT AND LIMITATIONS ASSOCIATED WITH INSTALLING AND MAINTAINING TRAFFIC CONTROL MEASURES.
- PROVIDE NEAT, STRAIGHT, FULL DEPTH, SAW CUTS OF EXISTING PAVEMENT WHERE INDICATED ALONG LIMITS OF PAVEMENT DEMOLITION.
- NO TREES SHALL BE REMOVED, NOR VEGETATION DISTURBED BEYOND THE LIMITS OF CONSTRUCTION WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL USE SUITABLE METHODS TO CONTROL DUST AND DIRT CAUSED BY THE DEMOLITION ACTIVITY.
- CONTRACTOR SHALL COORDINATE SIGNAGE AND SITE LIGHTING WITH PLANS BY OTHERS.

UTILITY GENERAL NOTES

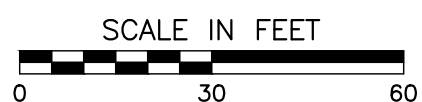
- ALL PROPOSED UTILITY LINES AND EXTENSIONS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE UTILITY COMPANY SPECIFICATIONS. CONTRACTOR SHALL COORDINATE UTILITY DISCONNECTIONS WITH THE APPROPRIATE AGENCY.
- THE CONTRACTOR IS PARTICULARLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF THE EXISTING UTILITIES SHOWN HEREON IS BASED ON RECORD DRAWINGS. THE CONTRACTOR SHALL NOT RELY UPON THIS INFORMATION AS BEING EXACT OR COMPLETE. SHOULD UNCHARTED UTILITIES BE ENCOUNTERED DURING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR INSTRUCTIONS. THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION AND REQUEST FIELD VERIFICATION OF UTILITY LOCATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE EXISTING UTILITIES CONFLICTING WITH IMPROVEMENTS SHOWN HEREON IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED UTILITY WORK PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL TRENCH SPOILS BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE DESIGNATED. ALL TRENCH SPOILS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFF SITE AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
- THE CONTRACTOR IS TO PROVIDE RECORD DRAWINGS OF ALL IMPROVEMENTS, INCLUDE AT LEAST TWO DIMENSIONS TO EACH VALVE AND MANHOLE FROM KNOWN SITE FEATURES. DRAWINGS SHALL INCLUDE HORIZONTAL AND VERTICAL INFORMATION ON ALL NEW UTILITIES AS WELL AS EXISTING UTILITIES ENCOUNTERED.
- CONTRACTOR IS TO COORDINATE WITH EACH UTILITY PROVIDER REGARDING INSTALLATION OF UTILITY CONDUITS FOR ELECTRICAL WORK. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR FOR THE TRENCHING AND CONDUIT INSTALLATION. COST FOR INSTALLATION AND MATERIALS SHALL BE INCLUDED IN VARIOUS BID ITEMS.

CONSTRUCTION WASTE RECYCLING/DISPOSAL

CONSTRUCTION WASTES ARE REFUSE MATERIALS THAT ARE EXISTING ON-SITE OR GENERATED DURING THE COURSE OF CONSTRUCTION AND INCLUDE, BUT ARE NOT LIMITED TO, PAPER, PLASTIC, RUBBER, WOOD, TEXTILE, AND METAL PRODUCTS.

**INSTALLATION:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING WASTE RECYCLING/DISPOSAL AREAS ON THE EAS PLAN ONCE THEY HAVE BEEN DETERMINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL WASTE RECYCLING/DISPOSAL PERMITS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

**MAINTENANCE:** ALL CONSTRUCTION WASTE SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF AT A STATE-APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL/STATE CODES AND PERMIT REQUIREMENTS. THE BURNING OF WASTE MATERIALS WILL NOT BE PERMITTED.



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UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THE LOCATION MUST BE CONSIDERED APPROXIMATE. OTHER UNDERGROUND UTILITIES MAY EXIST WHICH ARE NOT SHOWN. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN ALL PHYSICAL LOCATIONS OF UTILITY LINES PRIOR TO THE TIME OF CONSTRUCTION. IN NO WAY SHALL THE CONTRACTOR HOLD THE SURVEYOR RESPONSIBLE FOR ANY UTILITY LOCATION SHOWN ON THIS PLAN.

**PRELIMINARY**  
NOT FOR CONSTRUCTION



EXISTING CONDITIONS PLAN

DRAWING NO.:	C1.00-BP1
DATE:	NOVEMBER 23, 2022
DWG SCALE:	1" = 30'
PROJECT NO.:	325-19
APPROVED BY:	UT

REFERENCES

- EXISTING BACKGROUND AND UTILITY INFORMATION OBTAINED FROM AMAZON.COM LLC ON 10/13/2022. EXISTING SURVEY COMPLETED BY BLEW & ASSOCIATES, P.A. CAD FILE NAME: 19-5589-CESD-200 Oritani-Boulevard NY Preliminary-04.20.2020\_CAD.DWG, DATED: 4/20/2020.
- SITE DESIGN INFORMATION OBTAINED FROM AMAZON.COM LLC ON 10/12/2022. RECORD DRAWINGS COMPLETED BY CECO ARCHITECTS, INC. PDF FILE NAME: DY44\_E1-Permit Set-644 Building Permit-Rev0-20220810; CAD FILE NAME: DY44\_E1-Site Concept-Rev3-20221010.DWG, DATED: 8/10/2022.









SCALE IN FEET

0 1 2

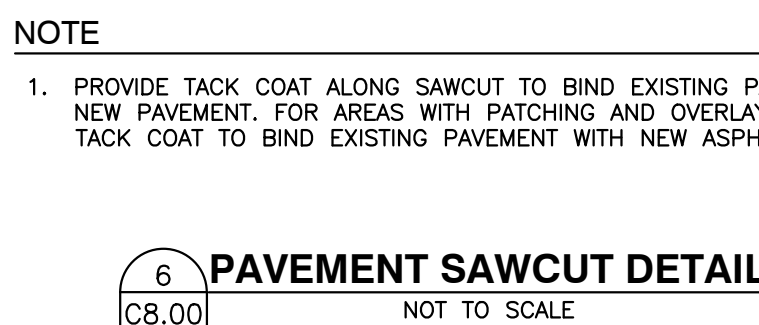
SCALE IN FEET

A horizontal scale bar with a black and white checkered pattern. It is labeled "SCALE IN FEET" at the top. Below the bar, there are numerical markings at 0, 1, and 2. The bar is divided into segments, with the first segment between 0 and 1 being further subdivided into four equal parts.

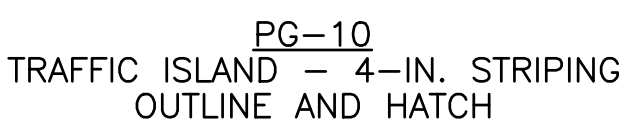
\* AS MEASURED FROM TOP OF PIPE TO FINAL GROUND SURFACE



- 5 TYPICAL UTILITY TRENCH DETAIL  
C8.00 NOT TO SCALE



- 7 PAVEMENT STRIPING DETAIL  
C8.00 NOT TO SCALE



**FLEXCORE BOLLARD DETAIL**

NOT TO SCALE



- PRELIMINARY**  
**NOT FOR CONSTRUCTION**



DATE:	NOVEMBER 23, 2022	DRAWN BY:	RCS
DWG SCALE:	1" = 2'	CHECKED BY:	EJB
PROJECT NO.:			3235-198
APPROVED BY:			EJB

**CEC**

**Civil & Environmental Consultants of New York, Inc.**  
908 Niagara Falls Boulevard · North Tonawanda, NY 14120  
Ph: 716.930.6080  
[www.cecinc.com](http://www.cecinc.com)

AMAZON.COM SERVICES LLC  
EV CHARGER INSTALLATION  
DXY4 DELIVERY STATION  
400 ORITANI DRIVE  
ORANGETOWN, NY 10913



[illegible]

**NOTE**

1. DETAIL PROVIDED BY AMAZON AND PREPARED BY OTHERS. AMAZON IS RESPONSIBLE FOR PROCUREMENT OF PEDESTALS

**LEVEL 2 CHARGER PEDESTAL BASE DETAILS**

## REFERENCES

1. EXISTING BACKGROUND AND UTILITY INFORMATION OBTAINED FROM AMAZON.COM LLC ON 10/13/2022. EXISTING SURVEY COMPLETED BY BLEW & ASSOCIATES, PA. CAD FILE NAME: 19-5589-CESO-200 Oritani-Blouvelt NY Preliminary-04.20.2020\_CAD.DWG, DATED: 4/20/2020.
2. SITE DESIGN INFORMATION OBTAINED FROM AMAZON.COM LLC ON 10/12/2022. RECORD DRAWINGS COMPLETED BY CESO ARCHITECTS, INC. PDF FILE NAME: DXY4\_E1-Permit Set-Ext. Building Permit-Rev0-20220810; CAD FILE NAME: DXY4\_E1-Site Concept-Rev3-20221010.DWG, DATED: 8/10/2022.

	<p>WEIGHT: 65 LBS (ASSUMED)  DIMENSIONS (H X W X D): 59.05\"/&gt; </p>
<p><b>SECTION 1</b></p>	<p>DUAL MOUNT PEDESTAL (NO CABLE MANAGEMENT)</p> <p>NO SCALE</p> <p>D</p> <p>WEIGHT: 30.87 LBS  DIMENSIONS (H X W X D): 34.25\"/&gt; </p>
<p>PEDESTAL INSTALLATION DETAIL</p>	<p>DUAL MOUNT PEDESTAL (WITH CABLE MANAGEMENT)</p>

**NOTE**

1. DETAIL PROVIDED BY AMAZON AND PREPARED BY OTHERS.  
AMAZON IS RESPONSIBLE FOR PROCUREMENT OF PEDESTALS

## 11 **LEVEL 2 CHARGER PEDESTAL BASE ALTERNATIVE DETAILS**


**DETAIL SHEET (2 OF 3)**

DATE: NOVEMBER 23, 2022		DRAWN BY: RCS	
AWS SCALE		EJB	
PROJECT NO:		325-198	
APPROVED BY:		EJB	

**CEC**

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908 Niagara Falls Boulevard · North Tonawanda, NY 14120  
Pht: 716.930.6080  
[www.cecinc.com](http://www.cecinc.com)

REVISION RECORD		DESCRIPTION
NO	DATE	
0	5/5/10/03	PERMIT DRAWING SET
1	10/04/03	CITY REVIEW COMMENTS
2	10/05/03	PERMIT DRAWING SET



**PRELIMINARY**  
**NOT FOR CONSTRUCTION**



## GENERAL NOTES

- THESE GENERAL NOTES REPRESENT AND/OR SUMMARIZE KEY PROJECT INFORMATION FOR THE DRAWING USER'S CONVENIENCE. HOWEVER, ALL CONSTRUCTION DOCUMENTS SHOULD BE REVIEWED FOR FURTHER DETAILS AND REQUIREMENTS.
- ALL REFERENCES TO REFERENCE STANDARDS HEREIN ARE TO MOST RECENT ISSUE IN EFFECT AS OF THE DATE OF THESE DOCUMENTS, UNLESS NOTED OTHERWISE IN CONSTRUCTION DOCUMENTS OR ON THE DRAWINGS.
- ELEVATIONS SHOWN ARE RELATIVE TO THE F.T.E. (4.4, F.T.E. = 0).
- WORK THESE DRAWINGS WITH THOSE PREPARED BY OTHER DISCIPLINES: CIVIL, MEP, AND MANUFACTURER'S RECOMMENDATIONS.
- THE LOCATIONS OF THE INSTALLATION OF THIS PRODUCT VARIES. UPON DETERMINATION OF THE SITE LOCATION, THE EOR WILL REVIEW THE DESIGN AND DETAILS IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL BUILDING PERMITS AND SCHEDULING/ACCOMMODATING ALL REQUIRED INSPECTIONS PERTAINING TO THE BUILDING PERMITS.
- SUBMIT SHOP DRAWINGS, PRODUCT DATA AND SAMPLES AS SPECIFIED ON CONSTRUCTION DOCUMENTS.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE CONSTRUCTION IS FULLY COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND ENSURE THE STABILITY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, TEMPORARY BRACING, ETC. THAT MAY BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.
- THIS ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES. THIS INCLUDES SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK AND ANY OMISSIONS OF THE CONTRACTOR, THEIR SUBCONTRACTORS, AND ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF THESE PERSONS TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

## DESIGN CODES

BUILDING CODE	ICC INTERNATIONAL BUILDING CODE, 2018 EDITION
CONCRETE - STRUCTURAL	ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
LOADING	ASCE 7 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES
REINFORCING	CRSI PLACING REINFORCING BARS
REINFORCING	CRSI REINFORCING BAR DETAILING
REINFORCING	CRSI MSP-2-01 MANUAL OF STANDARD PRACTICE
REINFORCING	ACI SP-66 ACI DETAILING MANUAL
STRUCTURAL STEEL	AISC STEEL CONSTRUCTION MANUAL, 14TH EDITION
STEEL WELDING	AWS D1.1 STRUCTURAL WELDING CODE - STEEL

## DESIGN CRITERIA

RISK CATEGORY	II
DEAD LOADS	
L2 CHARGER SELF-WEIGHT	60 LBS
L2 (ALTERNATE) SELF-WEIGHT	126 LBS
L3 CHARGER (50 KW) SELF-WEIGHT	364 LBS
SEISMIC LOADS	
SEISMIC DESIGN CATEGORY	C
SITE CLASS	D (ASSUMED)
IMPORTANCE FACTOR	1.0
TOTAL SEISMIC MASS:	
L2 CHARGER	50 LBS
L2 (ALTERNATE) CHARGER	105 LBS
L3 CHARGER (50 KW)	303 LBS
WIND LOADS	
ULTIMATE WIND SPEED	130 MPH
WIND EXPOSURE	C

NOTE: THE DESIGN CRITERIA ABOVE REPRESENTS BASIC LOADING ASSUMPTIONS WHERE THE RISK CATEGORY DOES NOT EXCEED CATEGORY II. WHERE THE DESIGN LOADING IS HIGHER, BASED ON THE LOCATION OF INSTALLATION OR THE AHA, THE DETAILS HEREIN SHALL BE EVALUATED AND REDESIGNED TO ACCOMMODATE NEW DESIGN LOADS. THIS SYSTEM IS NOT DESIGNED FOR VEHICLE IMPACT SINCE THEY ARE PROTECTED BY BOLLARDS OR OTHER MEANS AS DESIGNATED BY CIVIL.

## DEMOLITION NOTES

- ALL PAVEMENT, BASE COURSES, SIDEWALKS, CURBS, BUILDINGS, FOUNDATIONS, ETC. WITHIN THE AREA TO BE DEMOLISHED SHALL BE REMOVED TO FULL DEPTH. EXISTING BASE COURSE MATERIALS MAY BE WORKED INTO THE NEW PAVEMENT OR BUILDING SUBGRADE IF THE GRADATION, CONSISTENCY, COMPACTION, SUBGRADE CONDITION, ETC. ARE IN ACCORDANCE WITH THE SPECIFICATIONS AND RECOMMENDATIONS OF THE REPORT OF GEOTECHNICAL INVESTIGATION. BASE COURSE MATERIALS SHALL NOT BE WORKED INTO THE SUBGRADE AREAS TO RECEIVE LANDSCAPING.
- CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD BY THE CONTRACTOR.
- NO TREES SHALL BE REMOVED, NOR VEGETATION DISTURBED BEYOND THE LIMITS OF CONSTRUCTION WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.
- ALL DEMOLITION WASTE AND CONSTRUCTION DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED AND SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFF-SITE IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
- EROSION & SEDIMENT CONTROL MEASURES AROUND AREAS OF DEMOLITION SHALL BE PROPERLY INSTALLED AND FUNCTION PROPERLY PRIOR TO INITIALIZATION OF DEMOLITION ACTIVITIES.
- CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL AND OSHA REGULATIONS DURING ALL DEMOLITION ACTIVITIES.
- CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, STRUCTURES, AND FEATURES TO REMAIN. ANY ITEMS TO REMAIN THAT HAVE BEEN DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.
- PROVIDE NEAT, STRAIGHT, FULL DEPTH, SAW CUTS OF EXISTING PAVEMENT WHERE INDICATED ALONG LIMITS OF PAVEMENT DEMOLITION.
- ALL UTILITY AND STRUCTURE REMOVAL, RELOCATION, CUTTING, CAPING AND/OR ABANDONMENT SHALL BE COORDINATED AND PROPERLY DOCUMENTED BY A CERTIFIED PROFESSIONAL. WHEN APPLICABLE, WITH THE APPROPRIATE UTILITY COMPANY, MUNICIPALITY AND/OR AGENCY. DEMOLITION OF REGULATED ITEMS MAY INCLUDE, BUT ARE NOT LIMITED TO WELLS, ASBESTOS, UNDER GROUND STORAGE TANKS, SEPTIC TANKS AND ELECTRIC TRANSFORMERS. DEMOLITION CONTRACTOR SHALL REFER TO ANY ENVIRONMENTAL STUDIES FOR DEMOLITION RECOMMENDATIONS AND GUIDANCE. AVAILABLE ENVIRONMENTAL STUDIES MAY INCLUDE, BUT ARE NOT LIMITED TO PHASE I ESA, PHASE II, WETLAND AND STREAM DELINEATION AND ASBESTOS SURVEY. ALL APPLICABLE ENVIRONMENTAL STUDIES SHALL BE MADE AVAILABLE UPON REQUEST.
- THE CONTRACTOR SHALL USE SUITABLE METHODS TO CONTROL DUST AND DIRT CAUSED BY THE DEMOLITION ACTIVITIES.

## FOUNDATION NOTES

- FOUNDATION DESIGN WAS COMPLETED PRIOR TO COMPLETION OF GEOTECHNICAL INVESTIGATIONS. ASSUMPTIONS WERE MADE FOR SOIL PROPERTIES AS NOTED BELOW:  
BEARING CAPACITY = 1500 PSF  
MODULUS OF SUBGRADE REACTION = 100 LB/IN<sup>3</sup>  
DENSITY OF SOIL = 130 PCF  
FROST DEPTH = 1.0 FT
- IF IT IS OUR RECOMMENDATION THAT A GEOTECHNICAL INVESTIGATION OF THE SITE BE PERFORMED, PRIOR TO CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR ENGAGING A GEOTECHNICAL TESTING AGENCY TO VERIFY ASSUMED GEOTECHNICAL PARAMETERS. IF DETERMINED GEOTECHNICAL PARAMETERS ARE FOUND TO DIFFER FROM THOSE ASSUMED, CONTACT ENGINEER OF RECORD FOR REVISED CONSTRUCTION DRAWINGS PRIOR TO CONSTRUCTION.
- IT IS ALSO OUR RECOMMENDATION THAT A GEOTECHNICAL ENGINEER BE RETAINED BY THE OWNER TO PROVIDE OBSERVATION AND TESTING SERVICES DURING THE GRADING AND FOUNDATION PHASE OF CONSTRUCTION. INSPECTION AND TESTING REPORTS TO BE SUBMITTED TO THE ENGINEER OF RECORD. PREPARATION OF SUBGRADES SHALL BE AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- THERE WILL BE NO BACKFILLING OPERATIONS UNTIL THE CONCRETE WALLS HAVE REACHED THEIR 28-DAY DESIGN STRENGTH, UNLESS NOTED OTHERWISE OR APPROVED BY THE ENGINEER OF RECORD.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SHORING OR SLOPING OR EXCAVATIONS TO MEET OSHA REQUIREMENTS. DESIGN OF SHORING IS THE CONTRACTOR'S RESPONSIBILITY. EXCAVATIONS SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
- PRIOR TO PLACING ENGINEERED FILL, THE SITE SHALL BE STRIPPED AND PROOF ROLLED. ANY SOFT SPOTS ENCOUNTERED SHALL BE REMOVED AND REPLACED WITH ENGINEERED FILL. REFER TO EARTHWORK SPECIFICATION/GEOTECHNICAL ENGINEER FOR ADDITIONAL INFORMATION.

## STRUCTURAL CONCRETE NOTES

- ALL CAST-IN-PLACE CONCRETE SHALL FOLLOW SUSTAINABLE DESIGN CRITERIA FOR LOW CARBON CONCRETE PER SECTION 03 3010, AMZL DESIGN CRITERIA V8 DATED AUGUST 9, 2022.
- ALL CONCRETE AGGREGATE SHALL COMPLY WITH ASTM C33 (NORMAL WEIGHT).
- USE ADMIXTURES AS NOTED IN THE CONSTRUCTION DOCUMENTS OR AS APPROVED BY THE ENGINEER OF RECORD. SUBMIT PROPOSED ADMIXTURES AS PART OF CONCRETE MIX DESIGN SUBMITTAL.
- DESIGN FORMWORK FOR THE LOADS, LATERAL PRESSURE AND ALLOWABLE STRESSES OUTLINED IN ACI 347.
- FORMWORK SHALL BE SHORED ADEQUATELY TO ENSURE THAT IT WILL NOT MOVE DURING POURING OR CURING OF THE CONCRETE.
- CURE CONCRETE IN ACCORDANCE WITH THE SPECIFICATION, MEETING THE REQUIREMENTS OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
- SEE THE MECHANICAL, ELECTRICAL AND SUPPLIERS DRAWINGS FOR THE LOCATION OF SPECIAL ANCHORS, CHAMBERS, SLEEVES, PIPES, CONDUITS AND OTHER DETAILS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- ALL CONCRETE SHALL CURE A MINIMUM OF 7 DAYS AFTER POURING, AND SHALL REMAIN UNLOADED UNTIL CONCRETE HAS REACHED BOX OF THE 28 DAY DESIGN STRENGTH, UNLESS APPROVED BY THE ENGINEER OF RECORD.

### GENERAL CONCRETE MIX REQUIREMENTS

CONCRETE TYPE	28 DAY COMPRESSIVE STRENGTH (f <sub>c</sub> , PSI)	AIR CONTENT (+/- 1%) (AE=AIR EXTRACTED)	MAX W/C RATIO	MAX SLUMP AT PLACEMENT (IN)	MIN SLUMP AT PLACEMENT (IN)	MAX NOM AGG SIZE*	CEMENT TYPE	FLYASH % (OF TOTAL CEMENT)
SLAB ON GRADE (EXTERIOR)	5,000	3% (AE)	0.55	5	1	1.5 IN	I/II	15-25

\*AGGREGATES SHALL CONFORM TO REQUIREMENTS IN ACI 302.1.

### MAXIMUM GWP LIMITS FOR CONCRETE MIX DESIGNS

CONCRETE TYPE	MIN DESIGN STRENGTH (PSI)	AMAZON MAXIMUM ALLOWED GWP FOR CONCRETE MIX (kg CO <sub>2</sub> e per cubic yd)	AMAZON PREFERRED GWP** (kg CO <sub>2</sub> e per cubic yd)
WALKS & CURBS (S/M TO EXTERIOR SLAB ON GRADE)	4,500	245	217

\*\*BASED ON FEDERAL GOVERNMENT RECOMMENDATIONS TO LOWER CONCRETE EMBEDDED CARBON 20% FROM CURRENT INDUSTRY AVERAGE, AVAILABLE AT <https://www.gsa.gov/about-us/newsroom/news-releases/osa-announces-actions-to-reduce-emissions-from-building-materials-02-10-2022> WITH THE EXCEPTION OF THE LIMIT FOR FOUNDATIONS.

## REFERENCES

- EXISTING BACKGROUND AND UTILITY INFORMATION OBTAINED FROM AMAZON.COM LLC ON 10/13/2022. EXISTING SURVEY COMPLETED BY BLEW & ASSOCIATES, PA. CAD FILE NAME: 19-5589-CESO-200 Ortoni-Bienville Nt Preliminary-04.20.2020\_CAD.DWG, DATED: 4/20/2020.
- SITE DESIGN INFORMATION OBTAINED FROM AMAZON.COM LLC ON 10/12/2022. RECORD DRAWINGS COMPLETED BY CSO ARCHITECTS, INC. PDF FILE NAME: DXY4\_E1-Permit Set-1-Building Permit-Rev0-20220810, CAD FILE NAME: DXY4\_E1-Site Concept-Rev3-20221010.DWG, DATED: 8/10/2022.

## REINFORCING STEEL NOTES

- REINFORCING BARS: ASTM A615, GRADE 60
- BAR SUPPORTS CLASS 1, MAXIMUM PROTECTION (CRSI MANUAL OF STANDARD PRACTICE) FOR ALL SLABS AND BEAMS WITH SOFFITS EXPOSED TO WEAR
- ALL REINFORCING STEEL DETAILS SHALL BE IN ACCORDANCE WITH THE ACI CODE REQUIREMENTS (ACI 318 EDITION SPECIFIED IN THESE DRAWINGS).
- REINFORCING STEEL PLACING: CRSI PLACING REINFORCING BARS AND BAR LISTS SHALL CONFORM TO THE ACI OR CRSI DETAILING MANUALS. ALL BAR SUPPORTS MUST BE CLEARLY DETAILLED.
- HOOKS AND BENDS SHALL BE ACI STANDARD UNLESS OTHERWISE INDICATED.
- CONTINUOUS REINFORCING BARS SHALL BE PROVIDED WITH TENSION LAPS AT ALL SPLICES, UNLESS NOTED OTHERWISE. ALL STEEL REINFORCING LAPS SHALL BE TENSION LAPS TYPICAL, UNLESS NOTED OTHERWISE.
- MECHANICAL SPLICES SHALL NOT BE PERMITTED UNLESS APPROVED BY THE ENGINEER OF RECORD.
- REINFORCING STEEL FABRICATION AND PLACEMENT SHALL BE IN ACCORDANCE WITH CRSI MANUAL OF STANDARD PRACTICE AND CRSI PLACING REINFORCING BARS (EDITION SPECIFIED IN THESE DRAWINGS).
- REINFORCING STEEL IN FOOTINGS SHALL BE ASSEMBLED IN MAT GRILLES EQUALLY SPACED AND SECURELY WIRED TOGETHER BEFORE THE CONCRETE IS POURED.
- WALL FOOTING DOWELS ARE TO HAVE A FULL TENSION LAP SPLICE WITH THE WALL STEEL UNLESS NOTED OTHERWISE.
- ALL REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONCRETE.
- NO REINFORCING STEEL SHALL BE FIELD BENT WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD. FIELD BENDING OF PLAIN REINFORCEMENT, IF PERMITTED, SHALL BE PERFORMED USING AN APPROVED AND APPROPRIATE SIZED PORTABLE HYDRAULIC DEVICE THAT MAKES ACI STANDARD RADIUS BENDS. NO OTHER FIELD BENDING METHOD SHALL BE PERMITTED.
- WELDING, INCLUDING TACK WELDING, FOR REINFORCING STEEL IS PROHIBITED. WELDING OF REINFORCING STEEL AND HIGH STRENGTH BOLTS (A325, A490) WILL BE PERMITTED ONLY BY WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
- PER SECTION 03 3010, AMZL DESIGN CRITERIA V8 DATED AUGUST 9, 2022, TO REDUCE THE EMBEDDED CARBON EMISSIONS FOR REINFORCING STEEL BARS AT THE PREVIOUSLY STATED ASTM STANDARDS AND GRADES, PROVIDE REINFORCING STEEL BARS THAT SHALL NOT EXCEED THE ACHIEVABLE GWP VALUES, PER STATE (CONTIGUOUS UNITED STATES) IN THE FOLLOWING TABLE:

REGIONAL SUMMARY FOR REBAR				
STATE/ TERRITORY	ACHIEVABLE GWP (kgCO <sub>2</sub> e/kg)	NEARBY STATE WITH LOWEST ACHIEVABLE GWP	STATE/ TERRITORY	ACHIEVABLE GWP (kgCO <sub>2</sub> e/kg)
ALABAMA	0.825	AL	MONTANA	0.499
ALASKA	N/A	NO MIN REQ	NEBRASKA	0.650
ARIZONA	0.598	AZ	NEVADA	0.588
ARKANSAS	0.686	AR	NEW HAMPSHIRE	0.694
CALIFORNIA	0.860	CA	NEW JERSEY	0.694
COLORADO	0.650	CO	NEW MEXICO	0.598
CONNECTICUT	0.694	CT	NEW YORK	0.694
DELAWARE	0.694	DE	NORTH CAROLINA	0.614
FLORIDA	0.789	FL	NORTH DAKOTA	0.650
GEORGIA	0.614	GA	OHIO	0.694
HAWAII	N/A	HI	OKLAHOMA	0.725
IDAHO	0.499	WA MIN REQ	OREGON	0.499
ILLINOIS	0.898	IL	PENNSYLVANIA	0.694
INDIANA	0.686	IN	RHODE ISLAND	0.694
IOWA	0.898	IL	SOUTH CAROLINA	0.614
KANSAS	0.650	CO	SOUTH DAKOTA	0.650
KENTUCKY	0.686	TN	TENNESSEE	0.686
LOUISIANA	0.734	TX	TEXAS	0.734
MAINE	0.694	NY	UTAH	0.650
MARYLAND	0.694	NY	VERMONT	0.694
MASSACHUSETTS	0.694	NY	VIRGINIA	0.686
MICHIGAN	0.898	IL	WASHINGTON	0.499
MINNESOTA	0.898	IL	WEST VIRGINIA	0.686
MISSISSIPPI	0.825	MS	WISCONSIN	0.686
MISSOURI	0.686	TN	WYOMING	0.650

\* MAY COST EXTRA FOR SHIPPING  
\*\* LIKELY SOURCED FROM TN (CMC)

CONCRETE DEVELOPMENT/LAP SPLICE SCHEDULE (f <sub>c</sub> = 5 KSI)			
BAR SIZE	DEVELOPMENT LENGTH (IN) *		LAP SPLICE LENGTH, CLASS B (IN) *
	BAR TYPE 1*	BAR TYPE 2*	
4	17	26	23
5	22	32	28
6	26	39	34
7	38	56	49
8	43	64	56
9	48	72	63

\*BAR TYPE 1 - CLEAR SPACING OF BARS BEING DEVELOPED OR LAP SPLICED NOT LESS THAN D<sub>b</sub>, CONCRETE COVER NOT LESS THAN D<sub>b</sub>, AND STIRRUPS OR TIES THROUGHOUT L<sub>d</sub> NOT LESS THAN THE CODE MINIMUM.  
BAR TYPE 2 - OTHER CASES  
\*WHERE REINFORCEMENT IS PLACED SUCH THAT AT LEAST 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPLICE LOCATION(S), INCREASE THE VALUES IN THIS TABLE BY FACTOR OF 1.3.

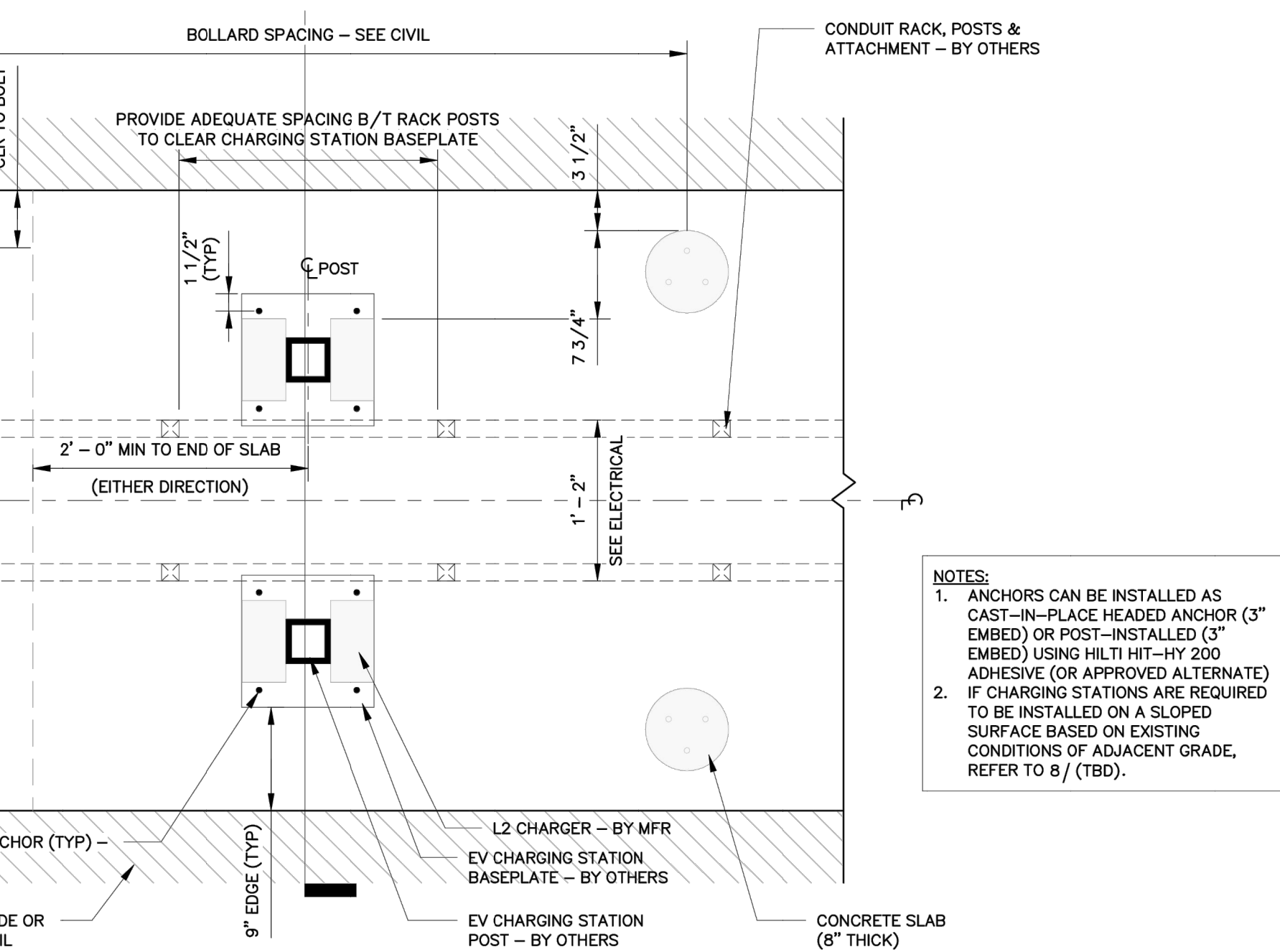
REINFORCING CLEAR COVER TABLE	
TYPE	MINIMUM CLEAR COVER (IN)
PERMANENTLY EXPOSED TO OR CAST AGAINST EARTH	3
EXPOSED TO EARTH OR WEATHER (#5 OR SMALLER)	1 1/2
EXPOSED TO EARTH OR WEATHER (#6 OR LARGER)	2
NOT EXPOSED TO EARTH OR WEATHER (#11 OR SMALLER)	1
NOT EXPOSED TO EARTH OR WEATHER (#12 OR LARGER)	1 1/2

## POST-INSTALLED ANCHOR NOTES

- ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY MANUFACTURER OR SUCH OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
- ANCHORS HAVE BEEN DESIGNED ASSUMING HAMMER DRILLED HOLES, DRY CONCRETE, AND CRACKED CONCRETE CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR UTILIZING APPROPRIATE METHODOLOGY TO MEET THESE DESIGN ASSUMPTIONS.
- ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING CURED FOR A MINIMUM OF 21 DAYS.
- SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.
- INSTALL ANCHORS PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL ANCHORS ARE INSTALLED BY PERSONNEL TRAINED TO INSTALL POST-INSTALLED ANCHORAGE.
- IT IS RECOMMENDED FOR THE CONTRACTOR TO ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ON-SITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD SHALL RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
- ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
- EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE FOR CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY NON-DESTRUCTIVE MEANS (FERROSCAN, GPR, X-RAY, ETC.).
- OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE HITLIT PROFIS SYSTEM.
- CONTACT THE MANUFACTURER FOR PRODUCT RELATED QUESTIONS.

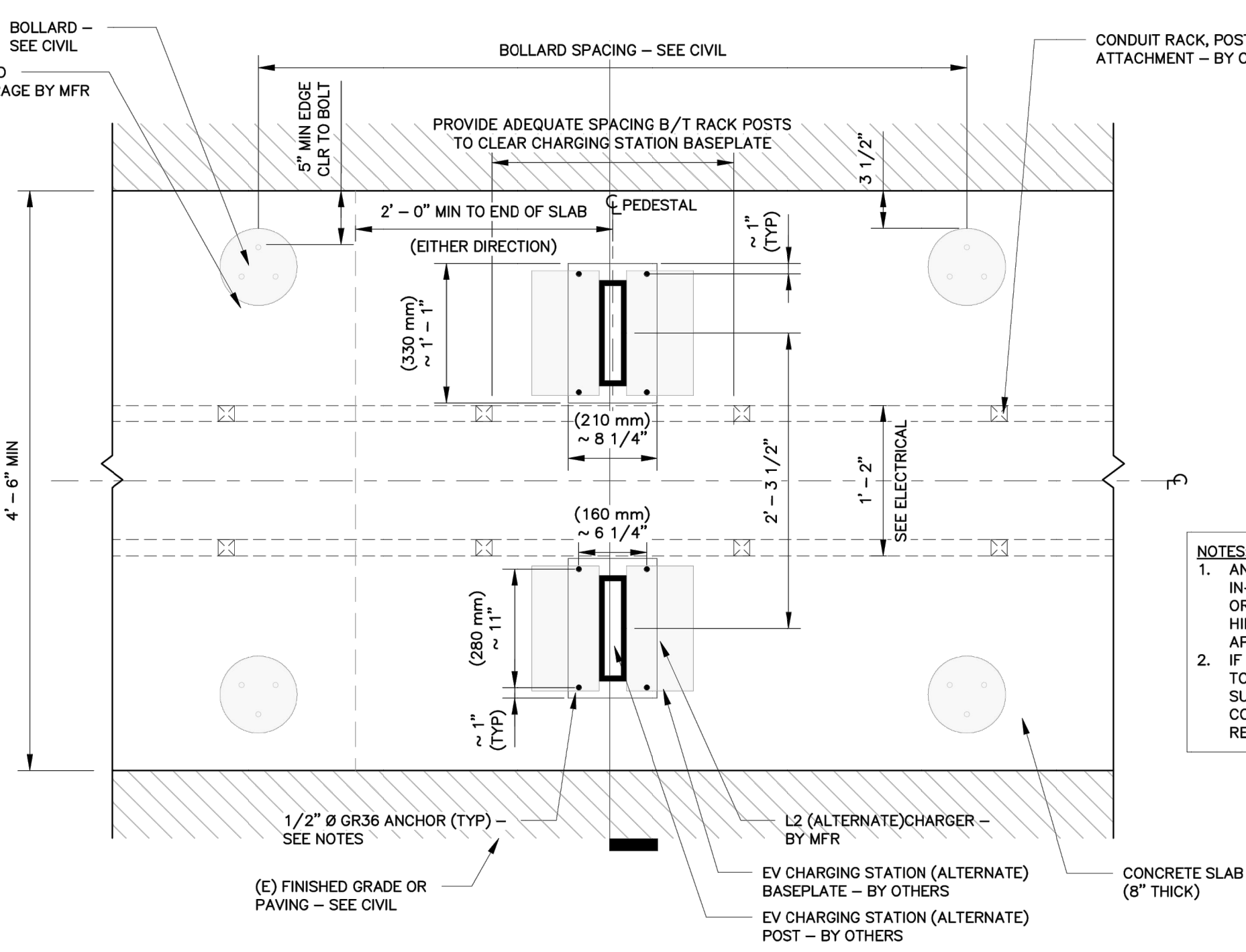
## ABBREVIATIONS

A/E	ARCHITECT & ENGINEER	(E)	EXISTING	LLH	LONG LEG HORIZONTAL (ANGLE)	QTY	QUANTITY
AB	ANCHOR BOLT	EA	EACH	LA	LONG LEG ANGLE	REF	REFERENCE
ACI	AMERICAN CONCRETE INSTITUTE	EJ	EXPANSION JOINT	LSH	LONG SIDE HORIZONTAL (HSS)	REIN	REINFORCING
ADDL	ADDITIONAL	EL	ELECTRICAL	LSV	LONG SIDE VERTICAL (HSS)	REQD	REQUIRED
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	ENGR	ENGINEER	LF	LINEAR FEET	REQ	REQUIREMENT
ALT	ALTERNATE	EOR	ENGINEER OF RECORD	LL	LIVE LOAD	RET	RETURN
ALUM	ALUMINUM	EQ	EQUAL	LOC	LOCATION	REV	REVISION
APPROX	APPROXIMATE	EQUIP	EQUIPMENT	LONG	LONGITUDINAL		
ARCH	ARCHITECTURAL/ARCHITECT	EXP	EXPANSION	LOW	LOW POINT	SCHED	SCHEDULE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	EXT	EXTERIOR	LSH	LONG SLOTTED HOLE	SECT	SECTION
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	F	FOUNDATION	M	MOMENT	SM	SIMILAR
AWS	AMERICAN WELDING SOCIETY	FF	FINISHED FLOOR ELEVATION	MAX	MAXIMUM	SLOPE	SLOPE
B/	BOTTOM OF	FIN	FINISHED GRADE	MCH	MECHANICAL	SQ	SQUARE
BLDG	BUILDING	FLG	FLANGE	MFD	MANUFACTURED	SSH	STAINLESS STEEL
BRM	BREAK	FND	FOUNDATION	MFR	MANUFACTURER	STD	STANDARD
BOT	BOTTOM	FMR	FRAMING	MIS	MISCELLANEOUS	STF	STIFFENER
BRC	BEARING	FTL	FOOT	MNT	MOUNTED	STL	STEEL
BTWN	BETWEEN	FTL	FOOT	MNT	MOUNTED	STRUT	STRUCTURAL
CALC	CALCULATION(S)	FTG	FOOTING	N&F	NEAR AND FAR	SYM	SYMMETRICAL
CHKD	CHECKED	N/A	NOT APPLICABLE	N/A	NOT APPLICABLE	T/	TOP OF
CIP	CAST-IN-PLACE CONCRETE	GA	GAGE, GAUGE	NIC	NOT IN CONTRACT	T&B	TOP AND BOTTOM
CJ	CONSTRUCTION/CONTROL JOINT	GAU	GALVANIZED (HOT DIP)	NO	NUMBER	THRU	THROUGH
CJP	COMPLETE JOINT PENETRATION	GWP	GLOBAL WARMING POTENTIAL	NOM	NOMINAL	TRANS	TRANSVERSE
CL	CENTERLINE	HCA	HEADED CONCRETE ANCHOR	NS	NEAR SIDE	TYP	TYPICAL
CL	CLEARANCE	HORZ	HORIZONTAL	OC	ON CENTER	UL	UNDERWRITERS
COL	COLUMN	HSB	HIGH STRENGTH BOLT	OD	OUTSIDE DIAMETER	UNO	UNLESS NOTED OTHERWISE
CONC	CONCRETE	IFC	INSIDE FACE	OPG	OPPOSITE	VERT	VERTICAL
CONN	CONNECTION	IBC	INTERNATIONAL BUILDING CODE	OPP	OPPOSITE	VF	VERTIFIED IN FIELD
CONT	CONTINUOUS	ICC	INTERNATIONAL CODE COUNCIL	OVH	OVERSIZED HOLE	W/O	WITHOUT
COORD	COORDINATE	ID	INSIDE DIAMETER	PCF	POUNDS PER CUBIC FOOT	WWR	WELDED WIRE REINFORCEMENT
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	INT	INTERIOR	PE	PENETRATION		
CTR	CENTER	JT	JOINT	PEN	PENETRATION		
DBA	DEFORMED BAR ANCHOR	K	KIPS	PL	PLATE		
DBL	DOUBLE	KSF	KIPS PER SQUARE FOOT	PLC	PLACES		
DEG	DEGREES	KSI	KIPS PER SQUARE INCH	PLF	POUNDS PER LINEAR FOOT		
DET	DETAIL			PROJ	PROJECTION		
DIA	DIAMETER			PSF	POUNDS PER SQUARE FOOT		
DIAG	DIAGONAL			PVC	POLYVINYL CHLORIDE		
DIR	DIRECTION						
DWG	DRAWING						



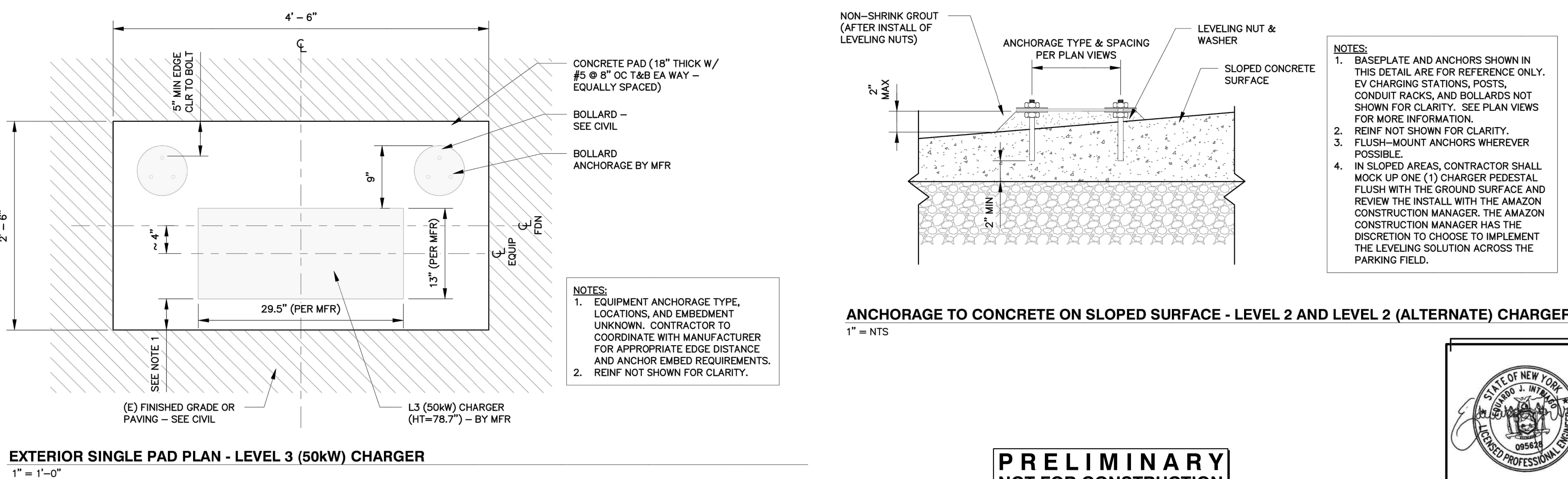
EXTERIOR SLAB PLAN - LEVEL 2 CHARGER (SINGLE- OR DUAL-MOUNT)

1" = 1'-0"



EXTERIOR SLAB PLAN - LEVEL 2 (ALTERNATE) CHARGER (SINGLE- OR DUAL-MOUNT)

1" = 1'-0"



ANCHORAGE TO CONCRETE ON SLOPED SURFACE - LEVEL 2 AND LEVEL 2 (ALTERNATE) CHARGER

1" = NTS

PRELIMINARY  
NOT FOR CONSTRUCTION

## REVISION RECORD

NO	DATE	DESCRIPTION
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NORTH



## REFERENCES

1. EXISTING BACKGROUND AND UTILITY INFORMATION OBTAINED FROM AMAZON.COM LLC ON 10/13/2022. EXISTING SURVEY COMPLETED BY BLEW & ASSOCIATES, PA. CAD FILE NAME: 19-5589-CESO-2000 Oritani-Blaeuvelt NY Preliminary-04.20.2020\_CAD.DWG, DATED: 4/20/2020.
2. SITE DESIGN INFORMATION OBTAINED FROM AMAZON.COM LLC ON 10/12/2022. RECORD DRAWINGS COMPLETED BY CESO ARCHITECTS, INC. PDF FILE NAME: DYX4\_E1-Permit Set-Ext. Building Permit-Rev0-20220810; CAD FILE NAME: DYX4\_E1-Site Concept-Rev3-20221010.DWG, DATED: 8/10/2022.



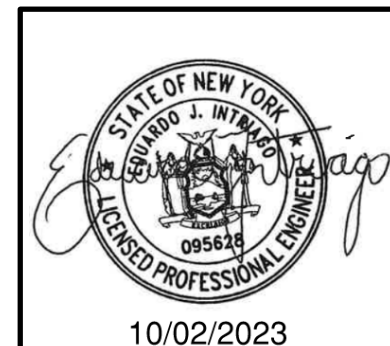
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NEW YORK LAW REQUIRES AT LEAST 2 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE - STOP CALL DIG SAFELY NEW YORK, INC. 1-800-862-7862.







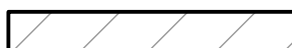
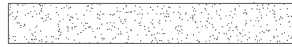


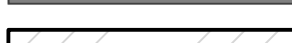
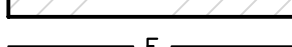



NEW YORK STATE CODE RULE 753 (1997) AS AMENDED IN JULY 2002 AND JANUARY 2012 REQUIRES NO LESS THAN 2 WORKING DAYS NOTICE NOR MORE THAN 10 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE. NEW YORK STATE CODE RULE 753 (1997) AS AMENDED IN JULY 2002 AND JANUARY 2012 DEMOLISH WHEN IN THE CONSTRUCTION PHASE. FOR LOCATION REQUESTS IN THE STATE OF NEW YORK, SUBMIT A REQUEST ONLINE VIA DIG SAFELY NEW YORK'S ENTRY PLATFORM EXACTLY OR CALL 1-800-862-7862.

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THE LOCATION MUST BE CONSIDERED APPROXIMATE. OTHER UNDERGROUND UTILITIES MAY EXIST WHICH ARE NOT SHOWN. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN ALL PHYSICAL LOCATIONS OF UTILITIES PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO HOLD THE SURVEYOR RESPONSIBLE FOR ANY UTILITY LOCATION SHOWN ON THIS PLAN.

**PRELIMINARY**  
**NOT FOR CONSTRUCTION**



### LEGEND

- |   |   |
|---|---|
| -----   | EXISTING SUBJECT PROPERTY LINE          |
| -----   | EXISTING ADJOINING PROPERTY LINE        |
| -----   | EXISTING EASEMENT                       |
| -----   | EXISTING RIGHT-OF-WAY                   |
| -----   | EXISTING SETBACK                        |
| ---BO---  | EXISTING INDEX (MAJOR) CONTOUR          |
| -----   | EXISTING INTERMEDATE (MINOR) CONTOUR    |
| ○-----○-----○   | EXISTING CHAIN FENCE                    |
| -----   | EXISTING CONCRETE CURB                  |
| -----   | EXISTING EDGE OF PAVEMENT               |
| -----ST-----  | EXISTING STORM PIPE                     |
| -----W-----   | EXISTING WATERLINE                      |
| -----G-----   | EXISTING GAS LINE                       |
| -----SAN-----   | EXISTING SANITARY SEWER LINE            |
| -----OH-E-----  | EXISTING OVERHEAD WIRE                  |
| -----   | EXISTING STORM STRUCTURES               |
|  | EXISTING GRAVEL BED                     |
|  | EXISTING FIRE HYDRANT                   |
| ○   | EXISTING SANITARY STRUCTURE             |
|  | EXISTING LIGHT POLE                     |
| β   | EXISTING UTILITY POLE                   |
| -----   | EXISTING GUY WIRE                       |
| ○   | EXISTING TELEPHONE MANHOLE              |
| •   | EXISTING SIGN                           |
| -----   | AREA OF WORK                            |
|  | PROPOSED DUAL L2 CHARGER                |
|  | PROPOSED SINGLE L2 CHARGER              |
|  | PROPOSED SINGLE L3 CHARGER              |
| ●   | PROPOSED CONCRETE ENCASED PIPE BOLLARD  |
| ○   | PROPOSED BOLT-DOWN BOLLARD              |
|  | PROPOSED STRIPING                       |
|  | PROPOSED CONCRETE STRIP                 |
|  | PROPOSED CONCRETE PAVEMENT              |
|  | PROPOSED ASPHALT PAVEMENT               |
|  | PROPOSED ABOVEGROUND CONDUIT RACK       |
|  | ASSET LIFE CHARGER LOCATION             |
| -----E-----   | PROPOSED ABOVEGROUND ELECTRICAL CONDUIT |
| -----UG-E-----  | PROPOSED UNDERGROUND ELECTRICAL CONDUIT |
| -----   | DETAIL NUMBER                           |
|  | DRAWING DESIGNATION                     |
| ②   | CHARGER COUNT                           |
|  | PROPOSED LOT LIGHT                      |
|  | INLET PROTECTION                        |
| -----EEL-----   | PROPOSED EROSION EEL                    |

[illegible]

**EFC**

**Civil & Environmental Consultants of New York, Inc.**  
908 Niagara Falls Boulevard • North Tonawanda, NY 14120  
Ph: 716.930.6080

**AMAZON.COM SERVICES LLC  
EV CHARGER INSTALLATION  
DXY4 DELIVERY STATION  
400 ORITANI DRIVE  
ORANGETOWN, NY 10913**

## EROSION & SEDIMENTATION CONTROL PLAN

DATE:	NOVEMBER 23, 2022	DRAWN BY:	RCS
DWG SCALE:	1" = 30'	CHECKED BY:	EJB
PROJECT NO:			325-198
APPROVED BY:			EJB

DRAWING NO.:  
**C9.00-BP1**

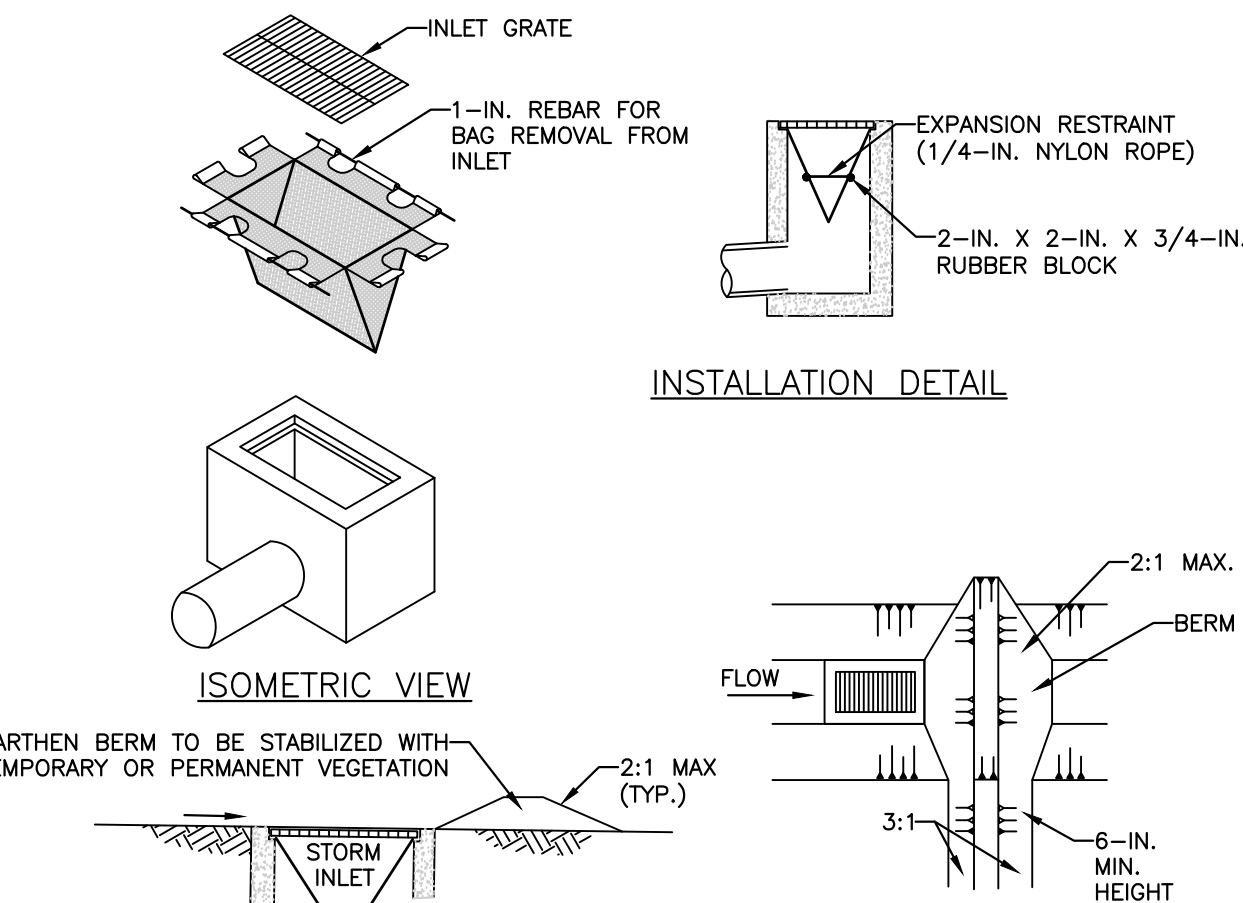


### TOPSOIL REPLACEMENT SPECIFICATIONS

1. GRADED AREAS SHOULD BE SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SURFACE AREAS AND TO PROVIDE A ROUGHENED SURFACE TO PREVENT TOPSOIL FROM SLIDING DOWN THE SLOP.

1. GRADED AREAS SHOULD BE SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES TO PREVENT BONDING OF THE TOPSOIL TO THE SURFACE AREAS AND TO PROVIDE A ROUGHENED SURFACE TO PREVENT TOPSOIL FROM SLIDING DOWN THE SLOP.
2. TOPSOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE DISTURBED AREA TO A DEPTH OF 4 TO 8 INCHES MINIMUM, 2 INCHES ON FILL AND OUTSLOPES.
3. SPREADING SHOULD BE DONE THAT SODDING / SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL PREPARATION OR TILLAGE.
4. IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOIL PLACEMENT SHOULD BE CORRECTED IN ORDER TO PREVENT FORMATION OF DEPRESSIONS OR UNLESS SUCH DEPRESSIONS ARE PART OF THE PCSM PLAN.
5. TOPSOIL SHALL NOT BE PLACED IF TOPSOIL OR SUBSOIL IS FROZEN OR MUDDY, EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DISTRIBUITED TO PROPER GRADING AND SEEDING.
6. COMPACTED SOILS SHOULD BE SCARIFIED 6 TO 12 INCHES ALONG CONTOUR WHEREVER POSSIBLE PRIOR TO SEEDING.

## 5 EROSION CONTROL MEASURES FOR UTILITY TRENCHES



## NOTES

- 
- SHEET FLOW
- ↓                      ↓                      ↓
- MIN. 12" OVERLAP
- ← SLOPE
- E1-C                      EROSION EEL™
- E1-C                      EROSION EEL™
- INSTALL EROSION EELS™  
PARALLEL TO THE SLOPE  
CONTOURS. PLACE 100 ft.  
(11 FULL SIZE 10' EELS)  
OF EROSION EELS™ FOR  
EVERY 0.25 ACRE  
DISTURBED AREA.
- SHINGLE OVERLAP RELATIVE  
TO SLOPE AS SHOWN.  
COMPRESS TIGHTLY  
TOGETHER VIA MANUAL OR  
MANUFACTURER-APPROVED  
MECHANICAL MEANS.

EROSION EEL™ PROVIDED AS FILTERS FOR WASHOUT

2" MIN. DEPTH

EXCAVATED AREA FOR WASHOUT

TEMPORARY CONCRETE WASH-OUT (ESTIMATED 58 ft<sup>2</sup> AREA)

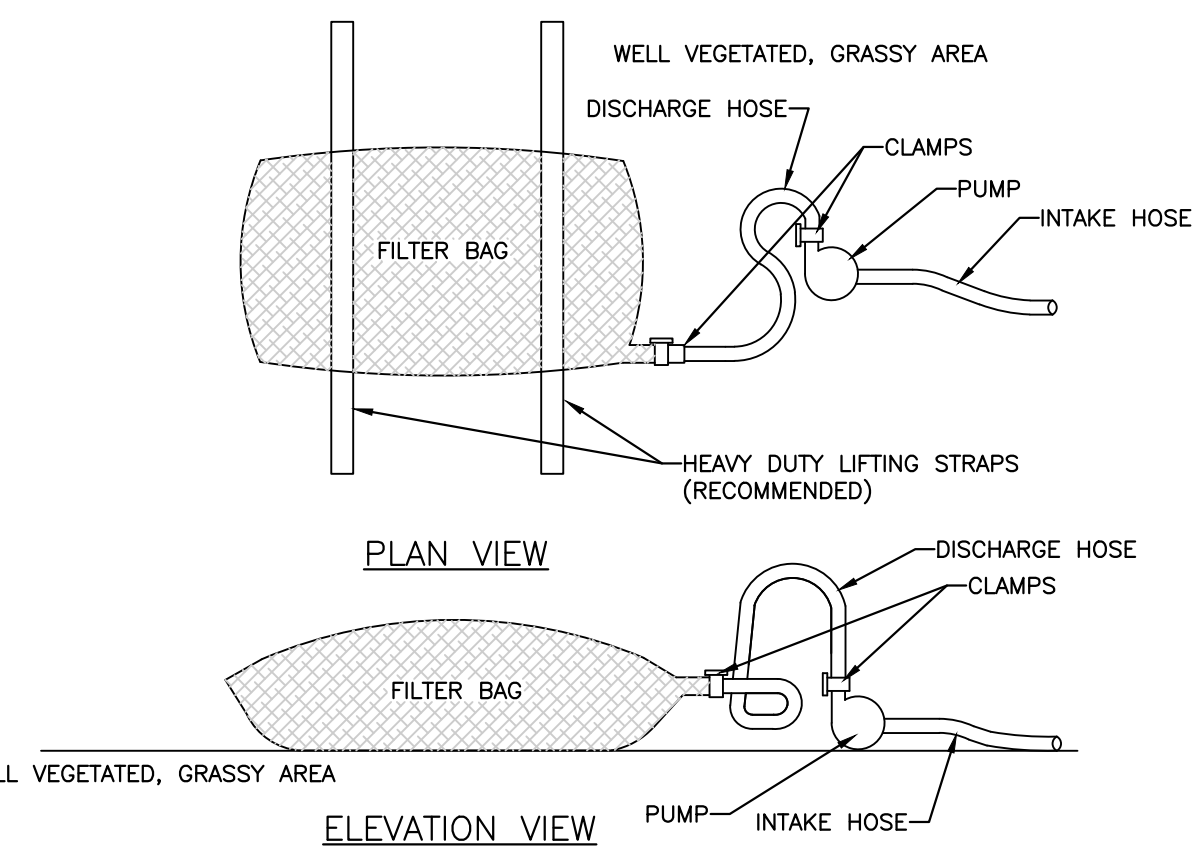
MIN 12" OVERLAP. INSURE BAGS AT OVERLAP ARE PRESSED FIRMLY TOGETHER. TYPICAL AT ALL JOINTS.

INSTALL WASH-OUT ON RELATIVELY FLAT TERRAIN. PLACE THREE EROSION EELS™ IN CIRCULAR PATTERN AS SHOWN WITH OVERLAPS. PROVIDE MORE EELS TO BROADEN CIRCUMFERENCE FOR LARGER WASHOUTS, IF DESIRED.

- ## NOTES

1. MAXIMUM DRAINAGE AREA = 1/2 ACRE.
2. INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.
3. ROLLED EARTHEN BERMS IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONE. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERMS IN REMAIN SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION COMPLETED OR CHAINED PERMANENTLY.
4. AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRASS TENSILE STRENGTH OF 12 POUNDS PER LINEAL INCH AND A MINIMUM TENSILE STRENGTH OF 12 POUNDS PER LINEAL INCH. TENSILE STRENGTH OF 50 POUNDS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.
5. INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS WHEN AFTER EACH RAIN OR WHEN EVIDENT CLOGGING OR RISING OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED 50% AS TO CAUSE FLOODING OR EXPOSING OF THE UNDERLIES. WHEN CLOGGING OR RISING IS EVIDENT, THE BAGS SHALL BE REPLACED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY. THE CONTRACTOR SHALL MAINTAIN ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.
6. DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE FASCIFIC HAZARDS.

C9.01	FILTER BAG INLET PR
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- ## NOTES

1. LOW DOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN TEXTILES THAT MEET THE FOLLOWING STANDARDS:
- | PROPERTY                 | TEST METHOD | MINIMUM STANDARD |
|--------------------------|-------------|------------------|
| AVG. WIDE WIDTH STRENGTH | ASTM D-4884 | 60 LB / IN.      |
| GRAN TENSILE             | ASTM D-4632 | 205 LB           |
| PUNCTURE                 | ASTM D-4833 | 110 LB           |
| MULLEN BURST             | ASTM D-3786 | 350 PSI          |
| UV RESISTANCE            | ASTM D-4355 | 70%              |
| AOX % RETAINED           | ASTM D-4751 | 80 SIEVE         |
2. A SUFFICIENT MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR USE IN THE EVENT OF A FAILURE. FILTER BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL. UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.
3. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE INTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FURROWS OR ROADS. INCREASED DRAINAGE BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.
4. NO DOWNSLOPE SEEDMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS, COMPOST BERM OR COMPOST FILL MAY BE USED TO PROVIDE A BARRIER. IN DOWN SLOPE EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.
5. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.
6. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP KICKS SHALL BE FLOATING AND SCREENED.
7. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND THE PROBLEM IMMEDIATELY CORRECTED.

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB / IN.
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

4 STANDARD CONSTRUCTION  
C9.01 PUMPED WATER FILTER BAG



- \* DUAL STACK REFERS TO TWO EELS  
STACKED ATOP ONE ANOTHER AND  
STABILIZED WITH T-POSTS. SEE DETAIL  
E2-E ON SHEET E-2.

GENERAL NOTES:

1. EROSION ELIM<sup>SM</sup> USED IN PERIMETER CONTROL APPLICATIONS SHALL HAVE A SPECIFICATION MIXTURE 1.0 OR 1.2.
6. MIXTURE SPECIFICATION 1.1. A FILTER MIXTURE COMPRISED OF 50% SHREDDED RUBBER AND 50% WOOD CHIP PARTICLES BY VOLUME. THE SHREDDED RUBBER SHALL BE WASHED AND PROCESSED TO REMOVE MOIST, IF NOT ALL, METAL COMPONENTS. THE RUBBER SHALL BE DERIVED FROM RECYCLED AND RECYCLED RUBBER. THE MAXIMUM PARTICLE SIZE OF +/- 3/4 INCH. THE WOOD CHIPS SHALL BE PRODUCED FROM HARDWOOD TREES AND SHALL CONFORM TO ASHFO CERTIFICATION SPECIFICATION NRP-0-33.
7. MIXTURE SPECIFICATION 1.2. A FILTER MIXTURE COMPRISED OF 50% SHREDDED RUBBER AND 50% RECYCLED SYNTHETIC FIBERS. THE SHREDDED RUBBER SHALL BE WASHED AND PROCESSED TO REMOVE MOIST, IF NOT ALL, METAL COMPONENTS. THE RUBBER SHALL BE DERIVED FROM RECYCLED AND RECYCLED RUBBER. THE MAXIMUM PARTICLE SIZE OF +/- 3/4 INCH. THE SYNTHETIC FIBERS SHALL BE PRODUCED FROM RECYCLED, MANUFACTURED MATERIALS SUCH AS CARPET, BUT NOT LIMITED TO, PRE-CONSUMER SCRAP CARPET, THE CHIRCO, OR OTHER RECYCLED MATERIALS.
8. EROSION ELIM<sup>SM</sup> SHALL BE MANUFACTURED FROM A WOVEN GEOTEXTILE COVERING WITH INTERIOR FILLER MATERIALS SUCH AS 100% SHREDDED RUBBER (MIXTURE SPECIFICATION 1.0, 50% SHREDDED RUBBER/50% +/-4.75" C.D. WOOD CHIPS (MIXTURE SPECIFICATION 1.1), OR 1/3 SHREDDED RUBBER/2/3 RECYCLED SYNTHETIC FIBERS (MIXTURE SPECIFICATION 1.2).
9. LENGTHS OF EROSION ELIM<sup>SM</sup> SHALL BE EITHER A NOMINAL +/-10' FT. OR +/-4.5' FT. NOMINAL DIAMETER SHALL BE +/-0.5 INCHES.
4. EROSION ELIM<sup>SM</sup> CAN BE PLACED AT THE TOP, ON THE FACE, OR AT THE TOE OF SLOPES TO EROSION CONTROL, REDUCE FLOW VELOCITY, RELEASE THE RUNOFF AS SHEET FLOW AND PROVIDE REMOVAL OF SEDIMENT FROM THE RUNOFF.
5. EROSION ELIM<sup>SM</sup> SHALL BE INSTALLED ALONG THE GROUND CONTOUR, AT THE TOE OF SLOPES, AT AN ANGLE TO THE CONTOUR TO DIRECT FLOW AS A DIVERSION BEAM, AROUND INLET STRUCTURES, IN A DITCH AS A CHECK DAM TO HELP REDUCE SUSPENDED SOLIDS LOADING AND RETAIN SEDIMENT, OR AS A GENERAL FILTER FOR ANY DISTURBED AREA.
6. NO TRENCHING IS REQUIRED FOR INSTALLATION OF EROSION ELIM<sup>SM</sup>.
7. PREPARE BED FOR EEL INSTALLATION BY REMOVING ANY LARGE DEBRIS INCLUDING ROCKS, SOIL CLUMPS, AND WOODY VEGETATION. EROSION ELIM<sup>SM</sup> CAN ALSO BE PLACED OVER PAVED SURFACES INCLUDING CONCRETE AND ASPHALT WITH NO SURFACE PREPARATION REQUIRED.
8. RAKE BED AREA WITH A HAND RAKE OR BY DRAG HAWKING.
9. DO NOT PLACE EEL DIRECTLY OVER RILL AND GULLIES UNTIL AREA HAS BEEN HAND-EXCAVATED AND RAKED TO PROVIDE A LEVEL BEDDING SURFACE. EROSION ELIM<sup>SM</sup> SHALL BE PLACED AT AN ANGLE TO THE SLOPE FOR MAXIMUM SEATING OF THE EEL.
10. FOR LOCATIONS WHERE EELS WILL BE PLACED IN CONCENTRATED FLOWS (SUCH AS CHECK DAMS, INLET PROTECTION) AND FOR PERIMETER CONTROLS AT PRIMARY DISCHARGE LOCATIONS, BRIDGE THE EELS IN A JUTE MESH CRADLE PER THE DETAILED DRAWINGS.
11. FOR DITCH APPLICATIONS, THE MAXIMUM DRAINAGE AREA SHALL BE 10 ACRES.
12. IF MORE THAN ONE EROSION EEL IS FIELD JOINED, THE JOINT, THE EELS SHALL BE OVERLAPPED A MINIMUM OF 12 INCHES TO PREVENT FLOW AND SEDIMENT FROM PASSING THROUGH THE FIELD. JOIN, COMPRESS THE TWO EELS OF THE OVERLAP TIGHTLY TOGETHER EITHER BY HAND OR MANUFACTURED AND NEW EEL.
13. WHEN USED IN DITCHES AS A CHECK DAM, EROSION ELIM<sup>SM</sup> SHALL BE INSTALLED PER MANUFACTURER'S DETAILS.
14. FOR CHECK DAM APPLICATIONS, EROSION ELIM<sup>SM</sup> SHALL BE PLACED PERPENDICULAR TO THE FLOW OF THE WATER. EROSION ELIM<sup>SM</sup> SHALL CONTINUE UP THE SIDES SLOPES A MINIMUM OF 3 FEET ABOVE THE DESIGN FLOW DEPTH.
15. EROSION ELIM<sup>SM</sup> SHALL REMAIN IN PLACE UNTIL FULLY ESTABLISHED VEGETATION HAS COMPLETELY DEVELOPED OR UNTIL THE STORAGE CAPACITY/FUNCTIONAL LIFE OF THE EEL HAS BEEN EXHAUSTED (REQUIRE REPLACEMENT WITH NEW EELS).
16. ANCHORING POSTS FOR CHECK DAM APPLICATIONS SHALL HAVE A MINIMUM WEIGHT OF 1.25 LBS PER LINEAL FOOT (5 TO 7 FT. LENGTHS) ROLLED FROM HIGH STRENGTH STEEL OR GALVANIZED STEEL. POSTS SHALL BE PLACED AT WEATHER-RESISTANT PANS FOR EEL ATTACHMENT. POSTS SHOULD BE EQUIPPED WITH A METAL ANCHOR PLATE. INSTALL PER DETAILS ON THIS SHEET.
17. APPLICATION POSTS THROUGH HANDLE OF BAGS. DO NOT DRIVE POSTS THROUGH EROSION ELIM<sup>SM</sup>. T-POSTS ARE TO BE EMBEDDED A MINIMUM OF 2

1 EROSION EEL  
C9.01 NOT TO SCALE

NEW YORK LAW REQUIRE AT LEAST 2 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE - STOP CALL DIG SAFELY NEW YORK, INC. 1-800-962-7962.

NEW YORK STATE CODE RULE 75.19(7) AS AMENDED IN JANUARY 2012 AND JANUARY 2014 STATES NO LESS THAN 2 WORKING DAYS NOTICE MORE THAN 2 WORKING DAYS NOTICE FOR CONSTRUCTION PHASES OF EXCAVATION, TRENCHING, GRADING, OR DEMOLITION WHEN IN THE CONSTRUCTION PHASE. FOR LOCATION REQUESTS IN THE STATE OF NEW YORK, SUBMIT A REQUEST ONLINE VIA DIG SAFELY NEW YORK'S ENTRY PLATFORM EXACTLY OR

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THE LOCATION MUST BE CONSIDERED APPROXIMATE. OTHER UNDERGROUND UTILITIES MAY EXIST WHICH ARE NOT SHOWN. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN ALL PHYSICAL LOCATIONS OF UTILITIES PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO HOLD THE SURVEYOR RESPONSIBLE FOR ANY UTILITY LOCATION SHOWN ON THIS PLAN.



**PRELIMINARY**  
**NOT FOR CONSTRUCTION**

EROSION & SEDIMENTATION CONTROL  
NOTES AND DETAILS



**Civil & Environmental Consultants of New York, Inc.**  
 908 Niagara Falls Boulevard • North Tonawanda, NY 14120  
 Ph: 716.930.6080

**MAZON.COM SERVICES LLC  
/ CHARGER INSTALLATION  
DXY4 DELIVERY STATION  
400 ORITANI DRIVE  
ORANGETOWN, NY 10913**

	RCS
	EJB
	325-198
	EJI

DRAWING NO.:  
**C9.01-BP1**



A  
B  
C  
D  
E  
F  
G  
H

ELECTRICAL GENERAL NOTES

- DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.
- ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A PULLWIRE OR EQUAL AND TRACER CABLE.
- IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO APPROVE METHODS AND MATERIALS NOT REFLECTED HEREIN.
- CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND VERIFY THAT CONDITIONS ARE AS INDICATED. CONTRACTOR SHALL INCLUDE IN HIS BID COSTS REQUIRED TO MAKE HIS WORK MEET EXISTING CONDITIONS.
- WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE, AND NATIONAL CODES AND ORDINANCES.
- PROVIDE PERMITS AND INSPECTIONS REQUIRED.
- GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.
- SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER.
- PROVIDE EXTERIOR PULL BOXES AND HANDHOLES AS REQUIRED TO COMPLETE WORK INDICATED. SPLICES IN EXTERIOR PULL BOXES AND HANDHOLES SHALL BE MADE WATERPROOF USING "BOOTHCAST" SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS WITH "DUCTSEAL" OR APPROVED EQUAL.
- VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING, AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUIT AND/OR WIRE), PULLBOXES, TRANSFORMER PADS, SHORTCUTTING AND PATCHING, CONCRETE PIPING, ETC. REQUIRED. BACKFILL TRANCHES TO AND PATCH TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS. CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED PRIOR TO WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING OR FACTORY WIRING IN EQUIPMENT PROVIDED BY THIS CONTRACTOR.
- CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS, EQUIPMENT, OR INSTALLATION METHODS.
- SYSTEMS SHALL BE COMPLETE, OPERABLE, AND READY FOR CONTINUOUS OPERATION.
- ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY UL OR OTHER RECOGNIZED TESTING FACILITY.

POWER GENERAL NOTES

- INTERRUPTING RATINGS NOTED IN SCHEDULES SHALL APPLY TO ENTIRE PANELBOARD AND/OR SWITCHBOARD. ALL EQUIPMENT COMPRISING PANELS AND/OR SWITCHBOARDS SHALL BE FULLY RATED FOR SHORT CIRCUIT CURRENT NOTED.
- PROVIDE ENGRAVED NAMEPLATES ON SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES, MOTOR CONTROL CENTERS, TRANSFORMERS, ETC., INDICATING EQUIPMENT DESIGNATION (OR DESIGNATION OF EQUIPMENT SERVED) AND VOLTAGE.
- FINAL CONNECTIONS TO EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS, AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
- PANEL DIRECTORIES SHALL BE REMOVABLE. SUBMIT PROPOSED SCHEDULE OF DIRECTORIES TO OWNER FOR APPROVAL. ROOM NAMES AND NUMBERS SHALL BE AS DIRECTED BY OWNER. DIRECTORIES SHALL BE TYPED AND INSTALLED UNDER CLEAR PLASTIC COVERS.
- ALL BRANCH CIRCUIT AND FEEDER CONDUITS SHALL HAVE A CODE SIZED COPPER GROUNDING CONDUCTOR. INCREASE CONDUIT SIZE AS REQUIRED.
- PULLBOXES, CABINETS, ETC. MOUNTED ON THE EXTERIOR AT GRADE LEVEL, SHALL BE WEATHERPROOF TYPE WITH HINGED LOCKABLE COVERS SECURED WITH TAMPERPROOF SCREWS.
- UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC, UNLESS NOTED OTHERWISE.
- PROVIDE SELF-ADHESIVE IDENTIFICATION INSIDE COVER OF EACH FUSIBLE SWITCH, INDICATING SIZE AND TYPE OF FUSES PROVIDED.
- PROVIDE ONE (1) SET OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT. INSTALL FUSES IN A HINGED DOOR, SHEET METAL STORAGE CABINET EQUIPPED WITH CLIPS OR CUBICLES, EACH MARKED WITH THE SIZE AND TYPE FUSE STORED THEREIN. PROVIDE NAMEPLATE "SPARE FUSES" INSTALL IN LOCATION(S) AS DIRECTED BY OWNER.

SCOPE ITEM	ELECTRICAL SCOPE COORDINATION				COMMENTS
	RESPONSIBILITY				
	OWNER		ELECTRICAL CONTRACTOR		
	FURNISH	INSTALL	FURNISH	INSTALL	
480V-208/120V TRANSFORMER(S)	X			X	
480/277V SWITCHBOARD	X			X	
480/277V PANELBOARD(S)	X			X	
208/120V PANELBOARD(S)	X			X	
LEVEL 3 EV CHARGERS(S)	X			X	
LEVEL 2 EV CHARGERS(S)	X			X	
NEW CONDUIT(S)			X	X	
NEW FEEDER(S)			X	X	

GENERAL NOTES:  
1. IF NOT LISTED, ITEM SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

ELECTRICAL ABBREVIATIONS

A	AMPERE
AF	AMP FRAME
AFC	AVAILABLE FAULT CURRENT
AFCI	ARC-FAULT CIRCUIT INTERRUPTER
AC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
AT	AMP TSP
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CONT	CONTINUOUS (CDS) (UED) (ATION)
CONTR	CONTRACTOR
CT	CURRENT TRANSFORMER
CU	COPPER
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE
EMMS	ENERGY REDUCTION MAINTENANCE SWITCH
EXIST	EXISTING
FLA	FULL LOAD AMPS
FMC	FLEXIBLE METALLIC CONDUIT
FUSW	FUSE SWITCH RATINGS (AMPS)
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFFE	GROUND-FAULT PROTECTION EQUIPMENT
GRD	GROUND
GRC	GALVANIZED RIGID CONDUIT
Hz	HERTZ
IMC	INTERMEDIATE METALLIC CONDUIT
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERE
KVAR	KILOVOLT AMPERE REACTIVE
KW	KILOWATT
LFMC	LIQUID TIGHT FLEXIBLE METALLIC CONDUIT
LFNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
#	NUMBER
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
PB	PULL BOX
PNL	PANEL
PRCLP	PARTIAL RANGE CURRENT LIMITING FUSE
PR	PRIMARY
PVC	POLYVINYL CHLORIDE CONDUIT
REQ	REQUIRED
RSC	RIGID STEEL CONDUIT
SCCR	SHORT CIRCUIT CURRENT RATING
SEC	SECONDARY
SW	SWITCH
SWBD	SWITCHBOARD
UG	UNDERGROUND
V	VOLT
VCB	VACUUM CIRCUIT BREAKER
VFI	VACUUM FAULT INTERRUPTER
W	WATT
XTMR	TRANSFORMER

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	RECEPTACLE
	RECESSED JUNCTION BOX - LETTER INDICATES TYPE
	SURFACE MOUNTED JUNCTION BOX - LETTER INDICATES TYPE
	RECESSED JUNCTION BOX, WALL - LETTER INDICATES TYPE
	SURFACE MOUNTED JUNCTION BOX, WALL - LETTER INDICATES TYPE
	LEVEL 2 EV VEHICLE CHARGER
	LEVEL 3 EV VEHICLE CHARGER
	GENERATOR - SIZE VARIES
	TRANSFORMER - SIZE VARIES
	PANELBOARD
	SWITCHBOARD/DISTRIBUTION PANELBOARD
	GROUND
	ELECTRICAL INTERLOCK
	METER
	MANHOLE
	HANDHOLE
	AUTOMATIC TRANSFER SWITCH
	METER & RELAY
	DRAW-OUT POTENTIAL TRANSFORMER
	SURGE PROTECTION DEVICE
	DISCONNECT SWITCH
	INSTANTANEOUS / TIME-DELAY / GROUND INSTANTANEOUS RELAY
	EXTERIOR POLE MOUNTED LIGHT FIXTURE

ELECTRICAL SHEET INDEX

Discipline	Sheet Number	Sheet Name
Electrical-BP1	E0.00-BP1	ELECTRICAL TITLE SHEET
Electrical-BP1	E1.10-BP1	ELECTRICAL SITE PLAN
Electrical-BP1	E1.11-BP1	ELECTRICAL ENLARGED DISTRIBUTION PLAN
Electrical-BP1	E3.00-BP1	ELECTRICAL ONE-LINE DIAGRAM
Electrical-BP1	E6.00-BP1	PANEL SCHEDULES
Electrical-BP1	E7.01-BP1	ELECTRICAL DETAILS
Electrical-BP1	E7.02-BP1	ELECTRICAL DETAILS
Electrical-BP1	E8.00-BP1	ELECTRICAL SPECIFICATIONS
Electrical-BP1	E8.01-BP1	ELECTRICAL SPECIFICATIONS
Electrical-BP1	E8.02-BP1	ELECTRICAL SPECIFICATIONS
Electrical-BP1	E8.03-BP1	ELECTRICAL SPECIFICATIONS

ELECTRICAL TITLE SHEET

AMAZON.COM SERVICES LLC  
DELIVERY STATION EXPANSION  
DXY4 DELIVERY STATION  
400 ORITANI DRIVE  
ORANGETOWN, NY 10913

DATE:	10/02/23	DRAWN BY:	AETTR
DWG SCALE:	AS INDICATED	CHECKED BY:	NSA
PROJECT NO:	4383.0063		NSA
APPROVED BY:			



E0.00-BP1

REVISION RECORD

NO	DATE	DESCRIPTION
2	10/02/2023	100% PERMIT SET OWNER REDUCTION

**emanuelson-podas**  
consulting engineers

Emanuelson-Podas, Inc.  
1000 West 10th Street  
Edina, MN 55425  
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
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1 ELECTRICAL SITE PLAN  
SCALE: 1" = 80'-0"

CHARGER QUANTITIES (PHASE-1)	
(40)	LEVEL 2 CHARGER STALLS (PHASE-1)
(0)	SINGLE MOUNTED LEVEL 2 CHARGERS (PHASE-1)
(20)	DUAL MOUNTED LEVEL 2 CHARGERS (PHASE-1)

LINE STYLE KEY	
-----	UNDERGROUND POWER CONDUIT
————	ABOVE GROUND POWER CONDUIT

**GENERAL NOTES:**  
A. SEE SHEET E0.10-BP1 FOR PROJECT NOTES.  
B. COORDINATE CONDUIT ROUTING WITH ALL UNDERGROUND UTILITIES.

**KEY NOTES:**   
1. PROVIDE CONCRETE PAD FOR ALL PAD MOUNTED ELECTRICAL EQUIPMENT. NEW PAD SHALL BE MINIMUM 8" ABOVE GRADE. EDGE OF PAD SHALL EXTEND 8" BEYOND EQUIPMENT FRAME. CHAMFER ALL OUTSIDE CORNERS.  
2. UTILIZE EXISTING UNDERGROUND CONDUIT INSTALLED AS PART OF PREVIOUS PHASE FROM SWITCHBOARD TO PANEL/TRANSFORMER.



ELECTRICAL SITE PLAN

DATE:	10/02/23	DRAWN BY:	AETTR
DWG SCALE:	AS INDICATED	CHECKED BY:	NSA
PROJECT NO:	4383.0063		NSA
APPROVED BY:			

AMAZON.COM SERVICES LLC  
DELIVERY STATION EXPANSION  
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ORANGETOWN, NY 10913



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(952) 939-0050 | www.epc.com

REVISION RECORD

NO	DATE	DESCRIPTION
2	10/02/2023	CHARGER REDUCTION
1	01/30/2023	100% PERMIT SET

E0.10-BP1



10/2/2023 11:11:59 AM

1 ENLARGED DISTRIBUTION AREA  
SCALE: 1/16" = 1'-0"

480V BRANCH CIRCUIT CABLE SIZING STANDARDS - L3 CHARGER				
	CABLE SIZE - COPPER (MCM)	CONDUIT SIZE (INCHES)	AMPACTY FOR 60C CONDUCTOR - NO DERATE AT 90 C	MAX CHARGER LOAD (L3 CHARGER)
1	3/2 AWG-4G	1 1/4	95A	66A

208V BRANCH CIRCUIT CABLE SIZING STANDARDS - L2 CHARGER - (ABOVE GROUND CONDUIT RACK SOLUTION)										
NOTES: 1. PROVIDE ABOVE GROUND JUNCTION BOX AND SPLICE CONDUCTORS DOWN TO #6AWG CONDUCTORS TO LAND ON THE TERMINALS OF THE L2 CHARGER (#6AWG IS THE LARGEST CONDUCTOR ALLOWED BY MANUFACTURER TO LAND ON TERMINALS).										
208V L2 CHARGER BRANCH CIRCUIT - COPPER CABLE STANDARDS										
EV CHARGER DISTANCE	CABLE SIZE - COPPER (80C)	MAX LENGTH (FEET)	CONDUIT SIZE (INCHES)	CIRCUITS PER CONDUIT (DUAL OR QUAD)	CABLES PER CONDUIT (DUAL)	AMPACITY WITH DERATION (80% FOR DUAL CONDUIT) - TEMPERATURE ADJUSTMENT NOT INCLUDED	AMPACITY FOR 60C CONDUCTOR - NO DERATE AT 90 C	MAX CHARGER LOAD (L2 CHARGER)	MAXIMUM VOLTAGE DROP (%)	
1	SHORT	2#4AWG-4G	131 ft	1"	2	(4-2G)	60A or 52A	55A	48A	2.99%
2	MEDIUM	2#4AWG-4G	220 ft	1 1/4"	2	(4-2G)	76A or 66A	70A	48A	2.99%

#### GENERAL NOTES:

- A. SEE SHEET E0.00-BP1 FOR PROJECT GENERAL NOTES.
- B. ACCESS TO AND CLEARANCES AROUND ELECTRICAL EQUIPMENT SHALL CONFORM TO NEC ARTICLE 110. CONSULT ENGINEER WHERE SPACE APPEARS INADEQUATE DUE TO CIVIL CHANGES. EQUIPMENT LAYOUT CHANGES OR FIELD CONDITIONS DO NOT COVER, OBSCURE OR BLOCK ACCESS TO EQUIPMENT, DATA PLATES, ACCESS PANELS OR MAINTENANCE AREAS WITH ELECTRICAL WORK.
- C. COORDINATE CONDUIT ROUTING WITH ALL UNDERGROUND UTILITIES.
- D. PRIMARY DISCONNECT NOT LOCATED WITHIN SIGHT OF TRANSFORMER MUST HAVE LOCKING MEANS AT REMOTE DISCONNECT AND A LABEL AT TRANSFORMER IDENTIFYING DISCONNECT LOCATION PER NEC 450.14.

#### KEY NOTES:

1. PROVIDE CONCRETE PAD AND UNISTRUT FRAMING AS REQUIRED FOR ALL GRADE MOUNTED ELECTRICAL EQUIPMENT. NEW PAD SHALL BE MINIMUM 6" HIGH. EDGE OF PAD SHALL EXTEND 6" BEYOND EQUIPMENT FRAME. CHARGERS ALL OUTSIDE CORNERS.
2. PROVIDE CONNECTION TO OWNER SUPPLIED ELECTRIC VEHICLE CHARGER. PROVIDE CONDUIT FROM SOURCE PANEL TO EACH GROUPING OF CHARGERS. A SINGLE CONDUIT SHALL FEED UP TO 4 CHARGERS. ROUTE CONDUIT ABOVE GROUND. REFER TO ABOVE GROUND CONDUIT DETAILS FOR MORE INFORMATION.



#### ELECTRICAL ENLARGED DISTRIBUTION PLAN

DATE:	10/02/23	DRAWN BY:	AE/TRR
DWG SCALE:	AS INDICATED	CHECKED BY:	NSA
PROJECT NO:	4383.0063		NSA
APPROVED BY:			

AMAZON.COM SERVICES LLC  
DELIVERY STATION EXPANSION  
DXV4 DELIVERY STATION  
400 ORITANI DRIVE  
ORANGETOWN, NY 10913



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#### REVISION RECORD

NO	DATE	DESCRIPTION
2	10/02/2023	CHARGER REDUCTION
1	01/30/2023	100% PERMIT SET

E1.11-BP1



TRANSFORMER SCHEDULE

NOTES:  
1. REFER TO DETAIL 4E7-01-BP1

ITEM	PRIMARY (DELTA)	SECONDARY (WYE)	TRANSFORMER GROUND ELECTRODE CONDUCTOR (CU)	SIZE	CONSTRUCTION	ENCLOSURE	MOUNTING	WEIGHT (LBS)	NOTES
DX14LV XPMR-5	480V, 3-PHASE, 3-WIRE	120/208V, 3-PHASE, 4-WIRE	#20 AWG	225 KVA	DRY TYPE	NEMA-3R	PAD	1624	1
DX14LV XPMR-6	480V, 3-PHASE, 3-WIRE	120/208V, 3-PHASE, 4-WIRE	#20 AWG	225 KVA	DRY TYPE	NEMA-3R	PAD	1624	1

3Ø FEEDER SCHEDULE

GENERAL NOTES:  
A. APPROVED CONDUCTOR INSULATIONS: THHN/THWN, THHN/THWN-2, XHHW-2. REFER TO PROJECT SPECIFICATIONS FOR INSULATION TYPE REQUIRED WITH VARYING CONDUCTOR SIZES AND APPLICATIONS.  
B. CONDUIT TYPE REQUIREMENTS VARY DEPENDING ON APPLICATION AND LOCATION OF FEEDER. REFER TO PROJECT SPECIFICATIONS FOR REQUIREMENTS.  
C. NEUTRAL SHALL BE THE SAME SIZE AS THE PHASE CONDUCTOR UNLESS OTHERWISE NOTED.

MARK (IMPACTIVITY)	COPPER				MARK (IMPACTIVITY)
	FEEDER 3W (W/ NEUTRAL) PH-GND-C	FEEDER 4W (W/ NEUTRAL) PH-GND-C	FEEDER 3W (W/ NEUTRAL) PH-GND-C	FEEDER 4W (W/ NEUTRAL) PH-GND-C	
20	12-12.34"	12-12.34"	NOT ALLOWED	NOT ALLOWED	20
30	10-10.34"	10-10.34"	NOT ALLOWED	NOT ALLOWED	30
40	8-10.34"	8-10.34"	NOT ALLOWED	NOT ALLOWED	40
50	6-10-1"	6-10-1"	NOT ALLOWED	NOT ALLOWED	50
60	—	6-8-1"	NOT ALLOWED	NOT ALLOWED	60
70	4-10-1"	4-10-1 1/4"	NOT ALLOWED	NOT ALLOWED	70
80	4-8-1 1/4"	4-8-1 1/4"	NOT ALLOWED	NOT ALLOWED	80
90	3-8-1 1/4"	3-8-1 1/4"	NOT ALLOWED	NOT ALLOWED	90
100	2-4-1 1/4"	2-4-1 1/2"	NOT ALLOWED	NOT ALLOWED	100
110	3-8-1 1/4"	3-8-1 1/4"	10-6-1 1/2"	10-6-2"	110
125	1-6-1 1/2"	1-6-1 1/2"	20-4-1 2"	20-4-2"	125
150	10-6-1 1/2"	10-6-2"	30-4-2"	30-4-2 1/2"	150
160	—	10-6-2"	—	30-4-2 1/2"	160
175	20-6-2"	20-6-2"	40-4-2"	40-4-2 1/2"	175
200	30-6-2"	30-6-2"	250KCMIL-4-2 1/2"	250KCMIL-4-3"	200
225	—	30-4-2 1/2"	—	250KCMIL-2-3"	225
250	40-4-2"	40-4-2 1/2"	300KCMIL-2-2 1/2"	300KCMIL-2-3"	250
265	—	40-4-2 1/2"	—	300KCMIL-2-3"	265
280	250KCMIL-4-3"	250KCMIL-4-3"	350KCMIL-2-3"	350KCMIL-2-3"	280
300	—	250KCMIL-2-3"	—	350KCMIL-10-3"	300
350	350KCMIL-4-3"	350KCMIL-4-3"	500KCMIL-2-3"	500KCMIL-2-3 1/2"	350
400	(2) 20-3-3"	(2) 20-3-3"	(2) 40-3-1 1/2"	(2) 40-3-1 1/2"	400
450	—	500KCMIL-3-4"	—	(2) 250 KCMIL - 1 - 3"	450
460	—	(2) 30-2-4"	—	(2) 250 KCMIL - 10 - 3"	460
490	(2) 40-2-2"	(2) 40-2-2 1/2"	(2) 300KCMIL-10-2 1/2"	(2) 300KCMIL-10-3"	490
500	(2) 250KCMIL-2-2 1/2"	(2) 250KCMIL-2-3"	(2) 350KCMIL-10-3"	(2) 350KCMIL-10-3"	500
500T	—	(2) 250KCMIL-10-3"	(2) 500KCMIL-30-3 1/2"	(2) 500KCMIL-30-3"	500T
600	(2) 500KCMIL-1-3"	(2) 500KCMIL-1-3"	(2) 500KCMIL-30-3 1/2"	(2) 500KCMIL-30-3 1/2"	600
600T	—	(2) 500KCMIL-20-3"	—	(2) 500KCMIL-40-3"	600T
800	(2) 500KCMIL-10-3"	(2) 500KCMIL-10-3 1/2"	(3) 400KCMIL-30-3 1/2"	(3) 400 KCMIL - 30 - 3 1/2"	800
800T	—	(3) 300 - 1620 GND - 3"	(3) 400 - 1840 GND - 3 1/2"	(3) 400 - 1840 GND - 3 1/2"	800T
1000	(3) 400KCMIL-20-3"	(3) 400KCMIL-20-3"	(4) 500KCMIL-40-3 1/2"	(4) 400 KCMIL - 40 - 3 1/2"	1000
1000T	—	(4) 250KCMIL-20-2 1/2"	—	(4) 400 KCMIL - 40 - 3 1/2"	1000T
1200T	—	(6) 500KCMIL-40-4"	—	(4) 500KCMIL-50KCMIL-4"	1200T
1600T	—	(5) 400KCMIL-25KCMIL0-4"	—	(5) 500KCMIL - 400KCMIL - 4"	1600T
2000T	—	(6) 400KCMIL-50KCMIL-4"	—	(7) 500KCMIL - 500KCMIL - 4"	2000T
2500T	—	(7) 500KCMIL-500KCMIL-4"	—	(8) 500KCMIL-500KCMIL-4"	2500T
3000T	—	(8) 500KCMIL-400KCMIL-4"	—	(10) 500KCMIL-500KCMIL-4"	3000T
MY165	—	—	#10 AL MV-105 - 10 CONCENTRIC NEUTRAL IN 6" CONDUIT	—	MY165
MY245	—	—	#40 AL MV-105 - 10 CONCENTRIC NEUTRAL IN 6" CONDUIT	—	MY245
MY400	—	—	#500 AL MV-105 - 10 CONCENTRIC NEUTRAL IN 6" CONDUIT	—	MY400

- GENERAL NOTES:

SEE SHEET E0.00 FOR PROJECT GENERAL NOTES.

PROVIDE SELECTIVE COORDINATION STUDY AND ARC FLASH ANALYSIS USING SUPPLIED COMPONENTS. ADJUST TRIP SETTINGS ON CIRCUIT BREAKERS FOR OPTIMAL COORDINATION. OVERCURRENT PROTECTIVE DEVICES SHALL BE SELECTIVELY COORDINATED FOR DISTRIBUTION SERVICE LOADS TO 0.1 SECONDS.

REFER TO PANEL SCHEDULES ON ELECTRICAL E0.00 SERIES SHEETS FOR ADDITIONAL INFORMATION.

ALL GRADE MOUNTED EQUIPMENT SHALL BE INSTALLED ON A CONCRETE PAD, NO LESS THAN 6" ABOVE SURROUNDING GRADE.

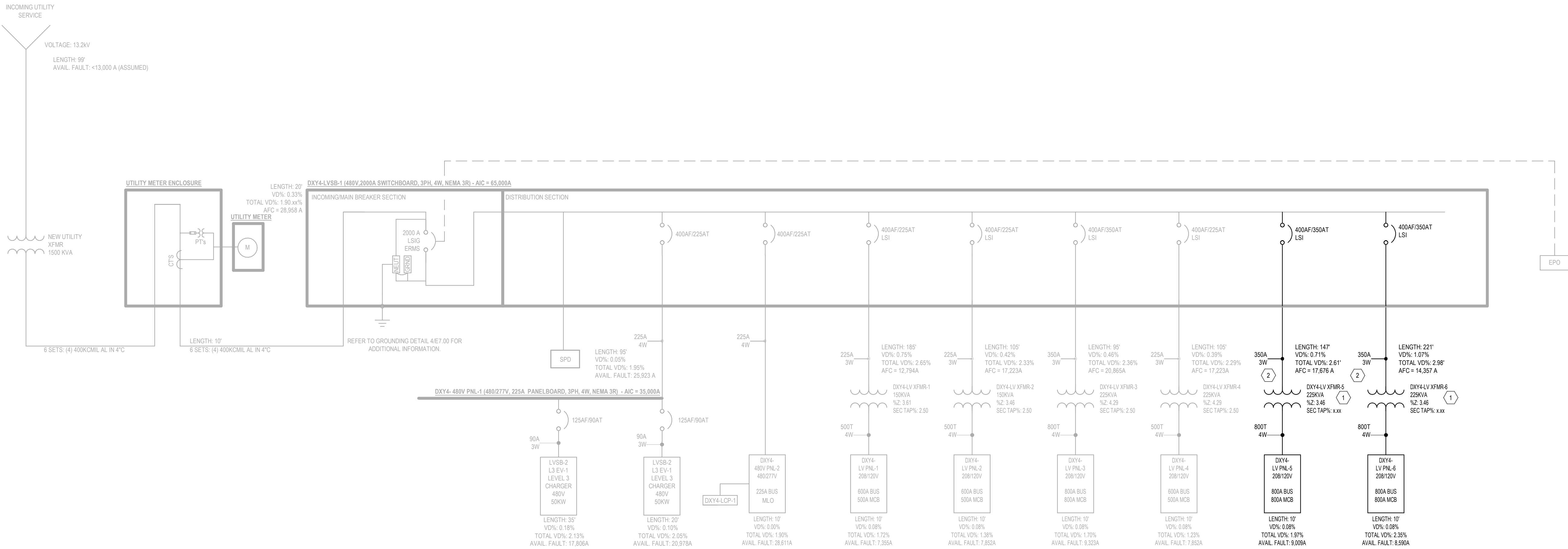
ALL TRANSFORMERS MUST BE GROUNDED PER NEC 250.30(A)(4) AND BONDED PER NEC 250.104(D). SEE DETAIL 2E7-01-BP1 FOR TRANSFORMER PAD DETAIL.

PRE-ENERGIZATION AND OPERATING TESTS SHALL BE PERFORMED AND TEST REPORTS SHALL BE AVAILABLE TO THE AUTHORITY HAVING JURISDICTION PRIOR TO ENERGIZATION PER NEC 110.41.

LENGTHS SHOWN ARE FOR DESIGN CALCULATIONS AND NOT FOR BIDDING PURPOSES.
- KEY NOTES:

ADJUST TRANSFORMER SECONDARY TAP VALUES AS INDICATED.

UTILIZE EXISTING CONDUIT IN PARKING LOT. PROVIDE CONDUCTORS AS INDICATED.



1 ELECTRICAL ONE-LINE DIAGRAM  
SCALE: 1/2" = 1'-0"



ELECTRICAL ONE-LINE DIAGRAM

AMAZON.COM SERVICES LLC  
DELIVERY STATION EXPANSION  
DX14 DELIVERY STATION  
400 ORITANI DRIVE  
ORANGETOWN, NY 10913

DATE:	10/02/23	DRAWN BY:	AE/TR
DWG SCALE:	AS INDICATED	CHECKED BY:	NBA
PROJECT NO:	4383.0063		
APPROVED BY:			

E5.00-BP1



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consulting engineers  
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1000 West 10th Street  
Eureka, MN 55429  
(952) 930-0303 | www.epnc.com

REVISION RECORD

NO	DATE	DESCRIPTION
2	10/02/2023	OWNER REDUCTION

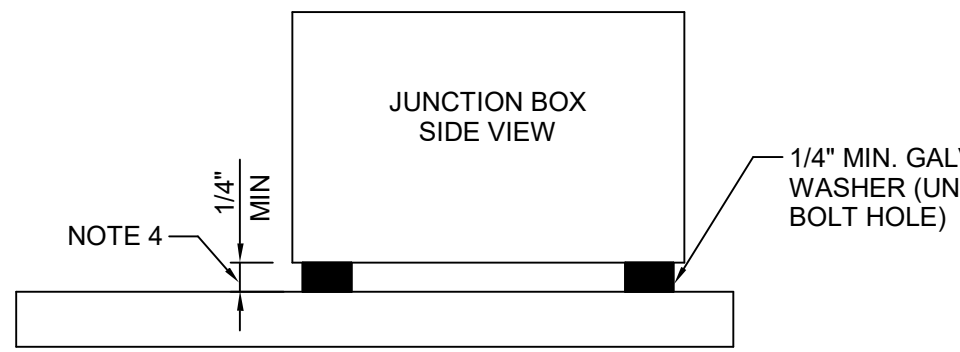




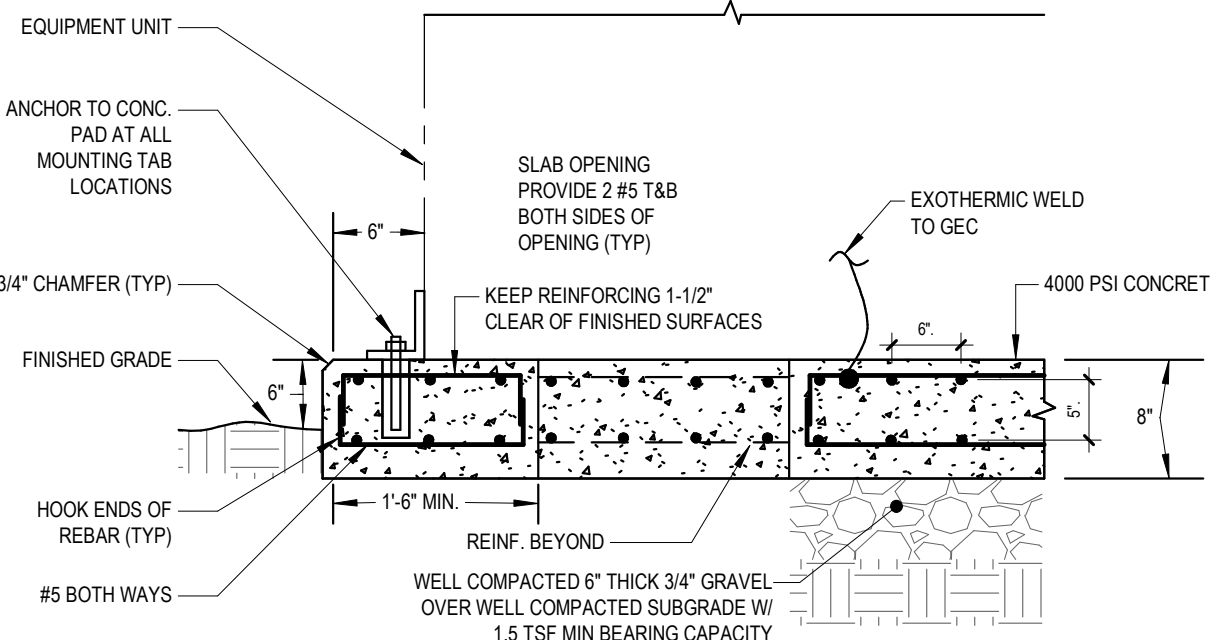


NOTE

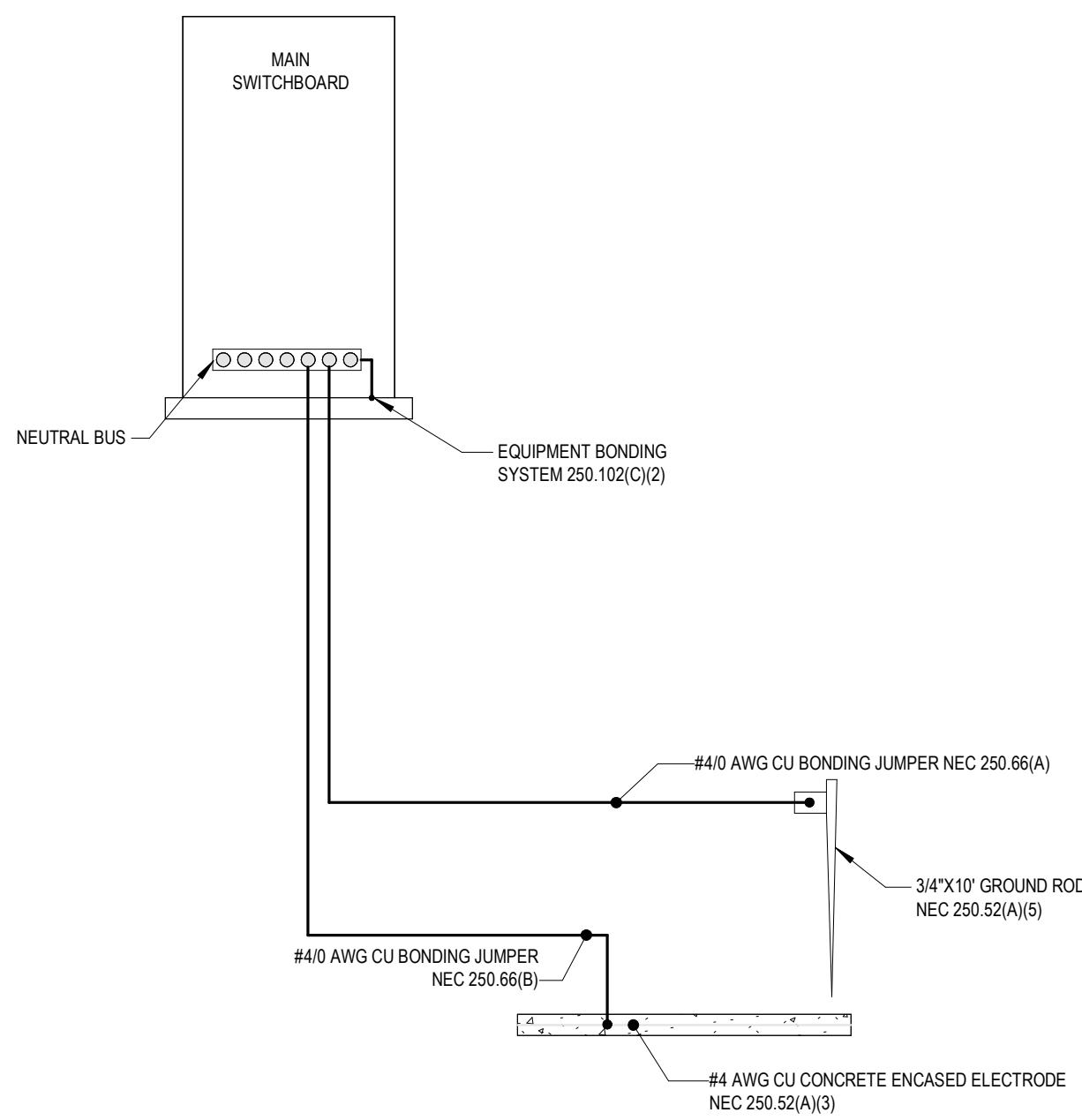
1. JUNCTION BOX FOR L2 AND L3 CHARGERS
2. MINIMUM RECOMMENDED DIMENSIONS LxWxH = 2'-0"x8"x1'-0"
3. MINIMUM NEMA 4X RATED RECOMMENDED POLYCARBONATE
4. IF METALLIC JUNCTION BOX IS USED IN WET OR DAMP ENVIRONMENT PROVIDE 1/4" AIRSPACE BETWEEN BASE OF JUNCTION BOX AND GROUND. RECOMMENDED 1/4" MIN. GALVANIZED SQUARE WASHER. IF ALTERNATIVE SOLUTION CONTACT ENGINEERING FOR APPROVAL.
5. SPLICES AND SPLICING DEVICES MUST BE WET RATED (NEC 314.30(C))
6. ENCLOSURES MUST REQUIRE A TOOL TO OPEN (NEC 314.30(D))



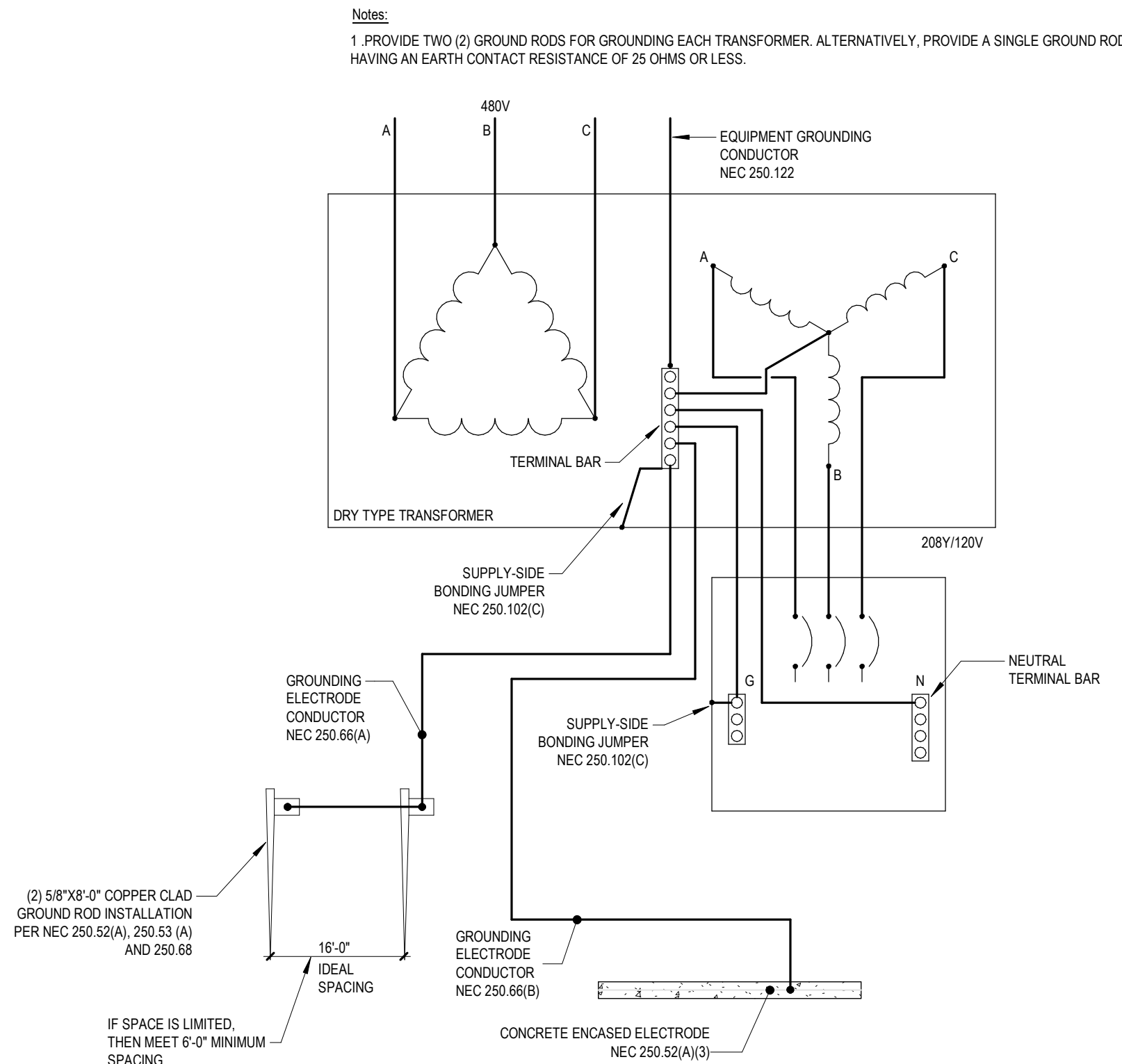
1 HANDHOLE/JUNCTION BOX DETAIL



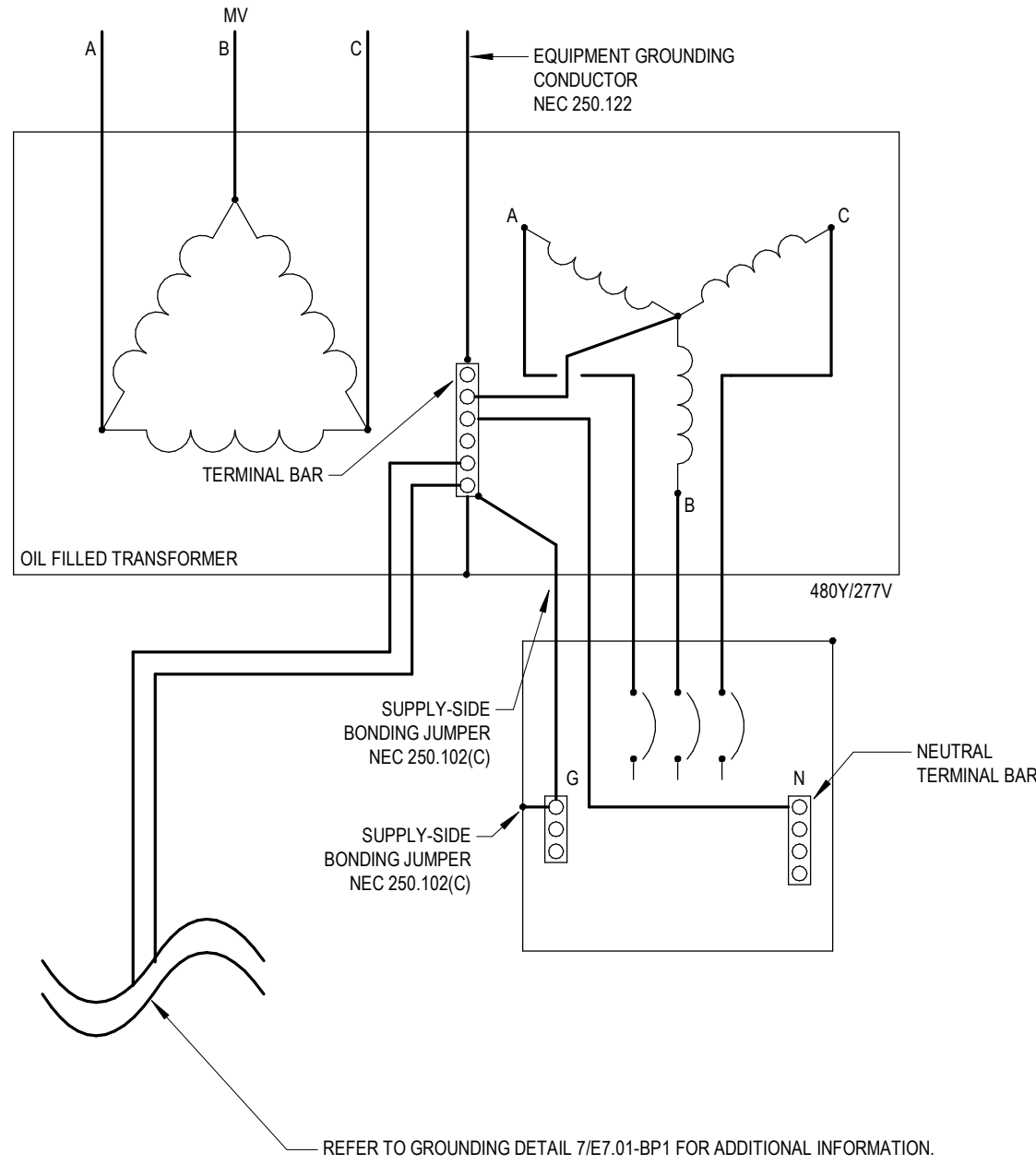
2 TYPICAL EXTERIOR CONCRETE PAD



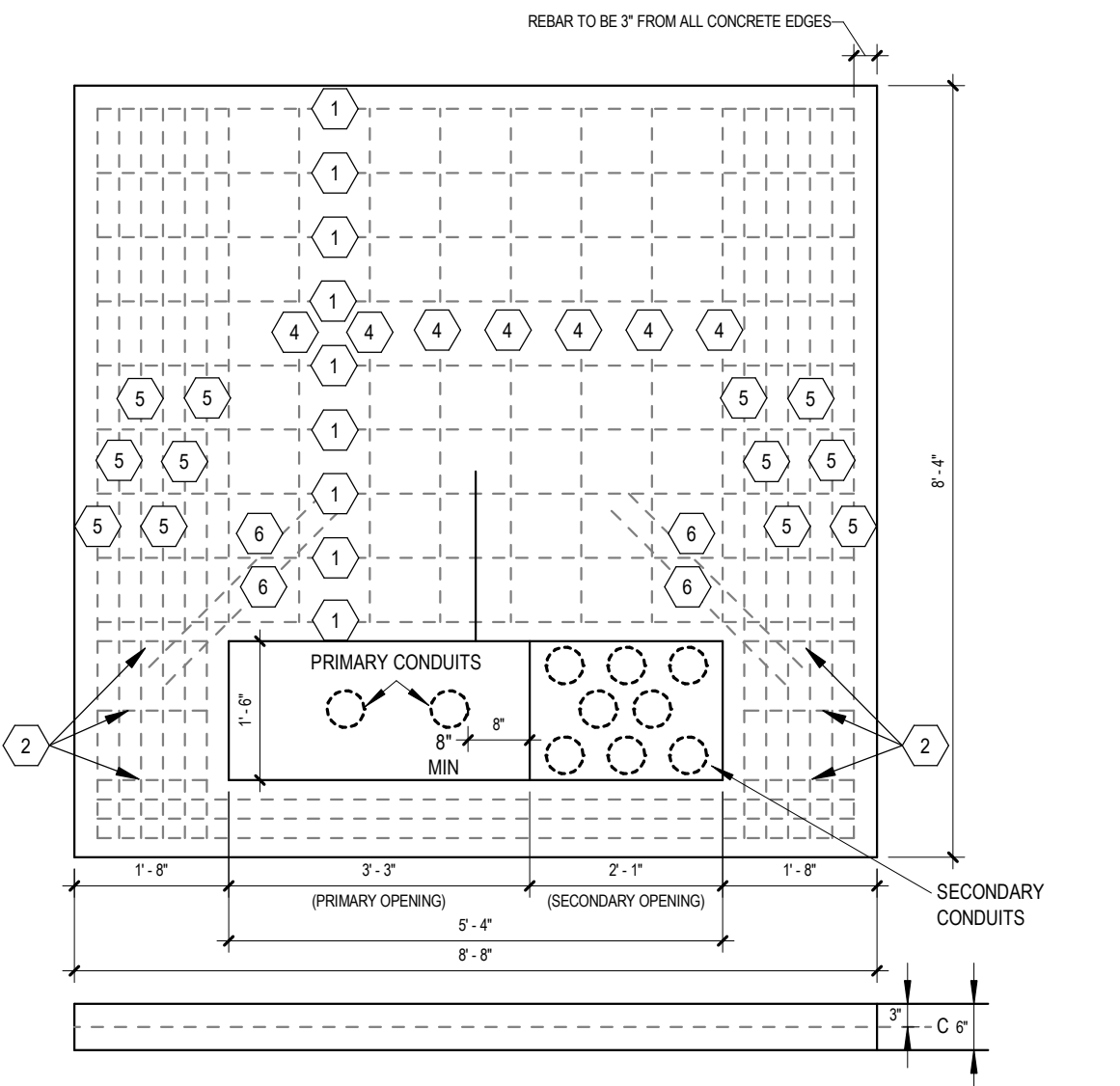
3 EXTERIOR LV SWITCHBOARD GROUING DIAGRAM



4 GROUNING ARRANGEMENT FOR SEPARATELY DERIVED SYSTEM - LOW VOLTAGE, EXTERIOR



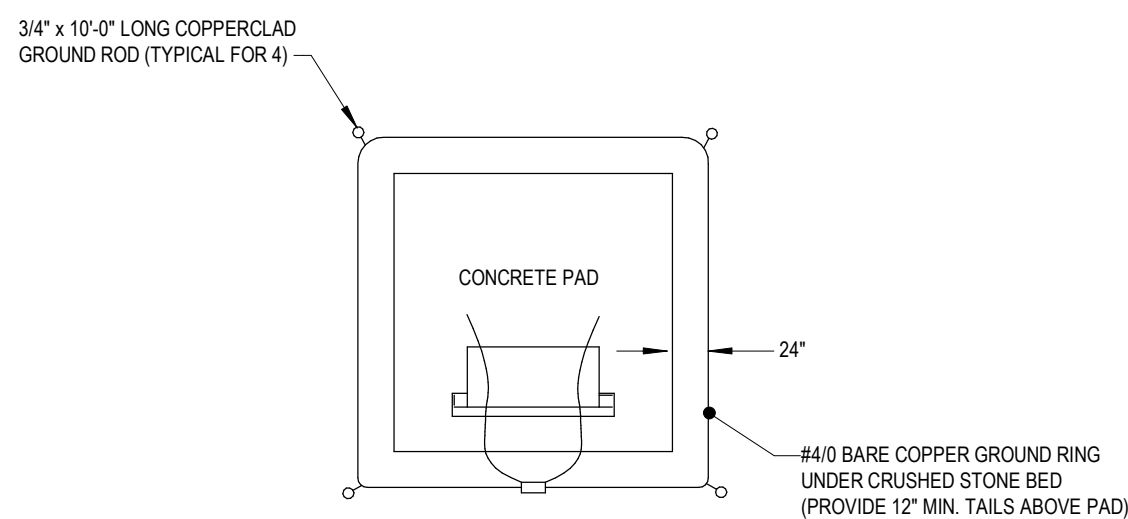
5 GROUNING ARRANGEMENT FOR SEPARATELY DERIVED SYSTEM - MEDIUM VOLTAGE, EXTERIOR APPLICATIONS



REINFORCING STEEL SCHEDULE						
1	2	3	4	5	6	APPROX. WEIGHT
(8) #4 X 8'2"	(8) #4 X 8'2"	(8) #4 X 8'2"	(8) #4 X 8'2"	(8) #4 X 8'2"	(8) #4 X 8'2"	6500 LBS.

- NOTES:
1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS. ALL CONCRETE SHALL BE AIR ENTRAINED 4% TO 6% BY VOLUME WITH A MAXIMUM WATER CONTENT RATIO OF 0.45.
  2. REINFORCING STEEL SHALL BE FURNISHED IN ACCORDANCE WITH ASTM A615 GRADE 60. PLACE PER SCHEDULE WITHIN THE LIMITS SHOWN. ALL REINFORCING STEEL SHALL BE UNIFORMLY TIED TO REINFORCING STEEL TO PREVENT DISPLACEMENT DURING CONCRETE PLACEMENT.
  3. TOP SURFACE FINISH SHALL BE LEVEL. WOOD FLOAT TOP. DO NOT LEAVE ANY DEPRESSIONS.
  4. SOIL COMPACTION UNDER PAD (FOR BOTH POURING PLACE AND SEPARATE STANDARD PADS) TO BE AT 96% STANDARD PROCTOR.
  5. TWO 6" 3/8" RADIUS CONDUIT ELBOWS FOR PRIMARY CABLE TO EXTEND 3' BEYOND THE FRONT EDGE OF TRANSFORMER PAD.

6 MV PAD MOUNT TRANSFORMER DETAIL



- NOTES:
1. EXTEND #4/0 GROUNDING CONDUCTOR FROM TRANSFORMER GROUND LUGS TO TRANSFORMER TERMINAL BAR
  2. ENTIRE INSTALLATION TO BE IN ACCORDANCE WITH N.E.C. REQUIREMENTS.

7 MV TRANSFORMER GROUNING DETAIL



ELECTRICAL DETAILS

AMAZON.COM SERVICES LLC  
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DX4 DELIVERY STATION  
400 ORITANI DRIVE  
ORANGETOWN, NY 10913

DATE:	10/02/23	DRAWN BY:	AE/RR
DWG SCALE:	AS INDICATED	CHECKED BY:	NSA
PROJECT NO:	4383.0063		
APPROVED BY:	NSA		

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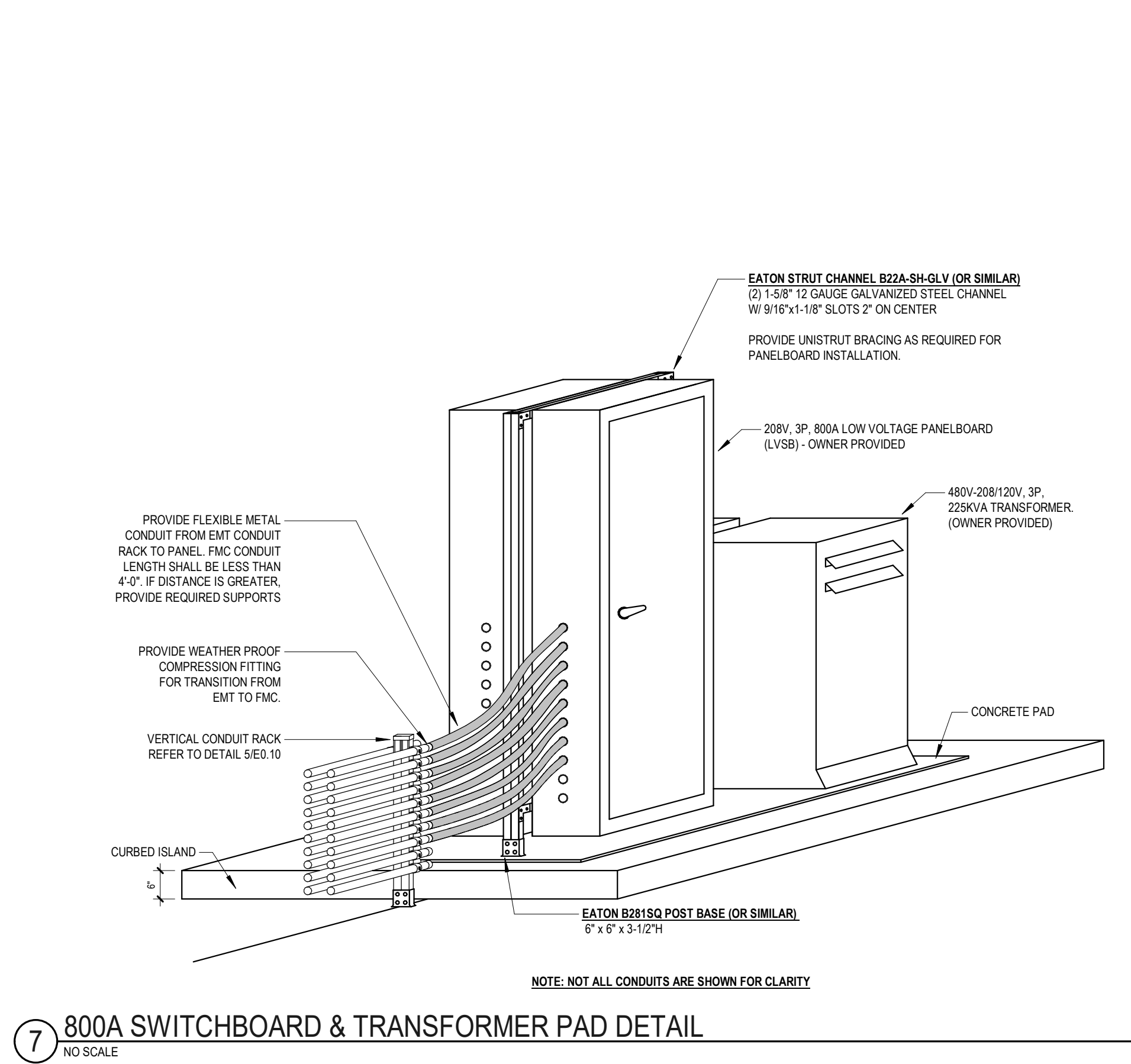
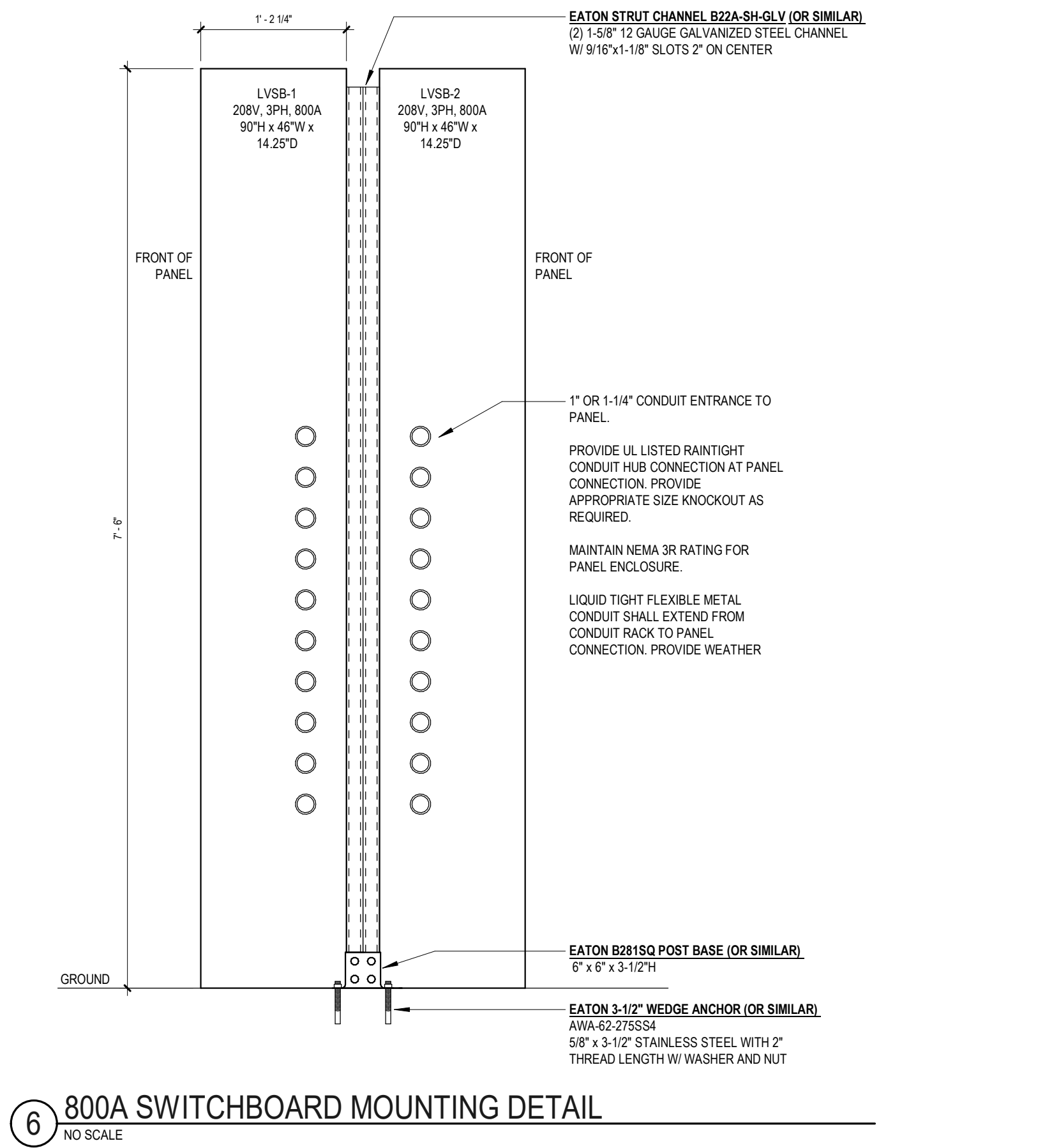
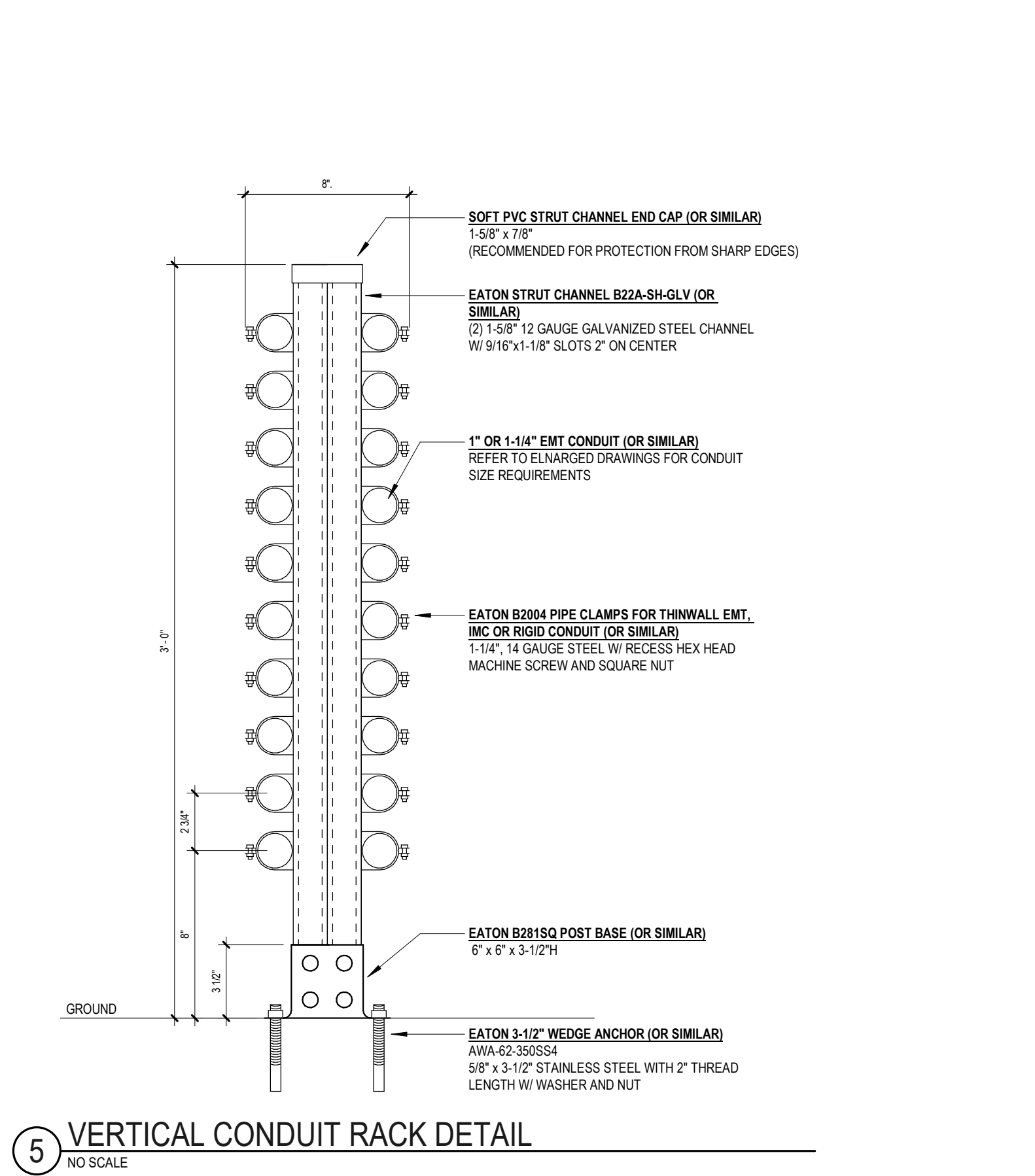
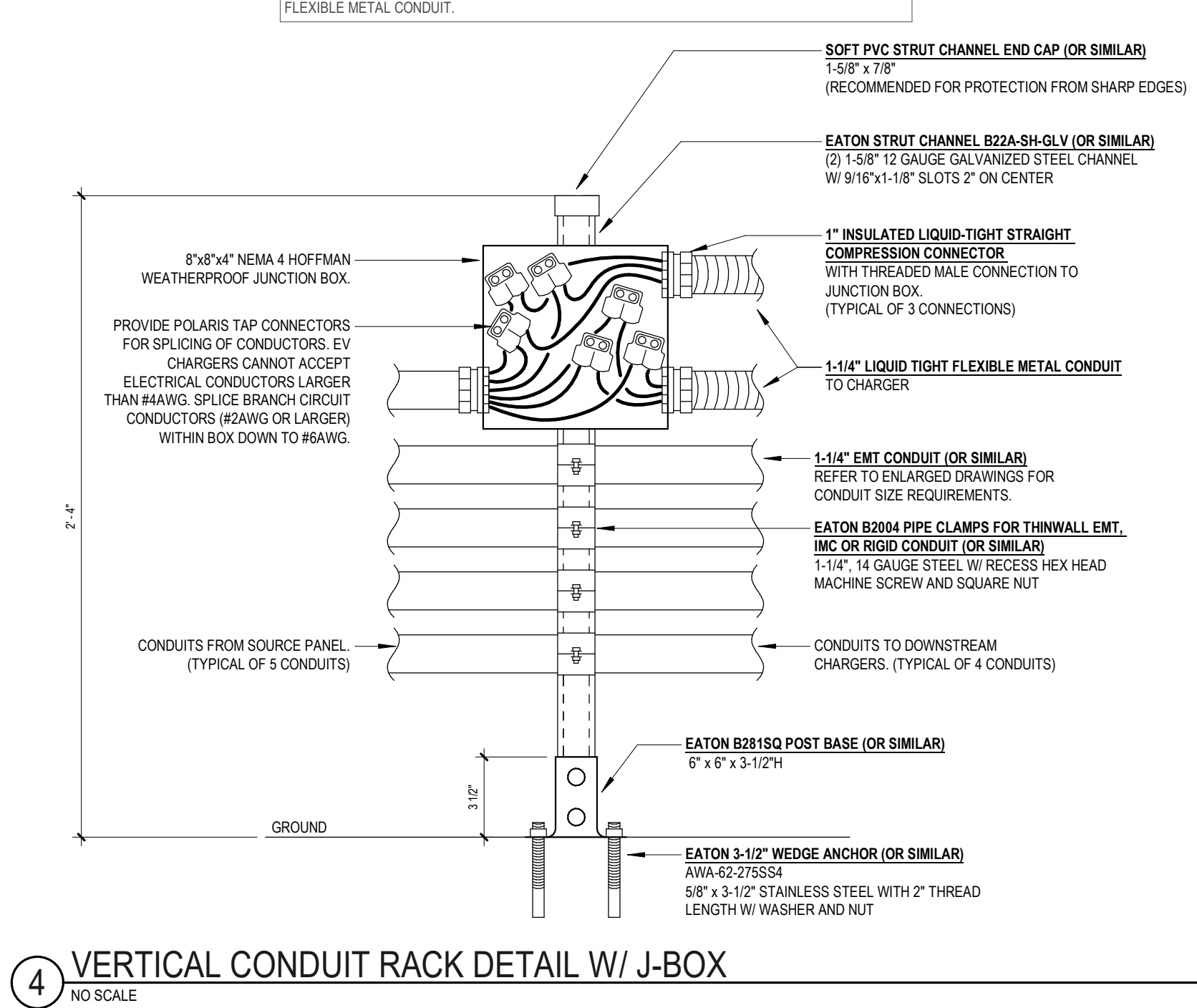
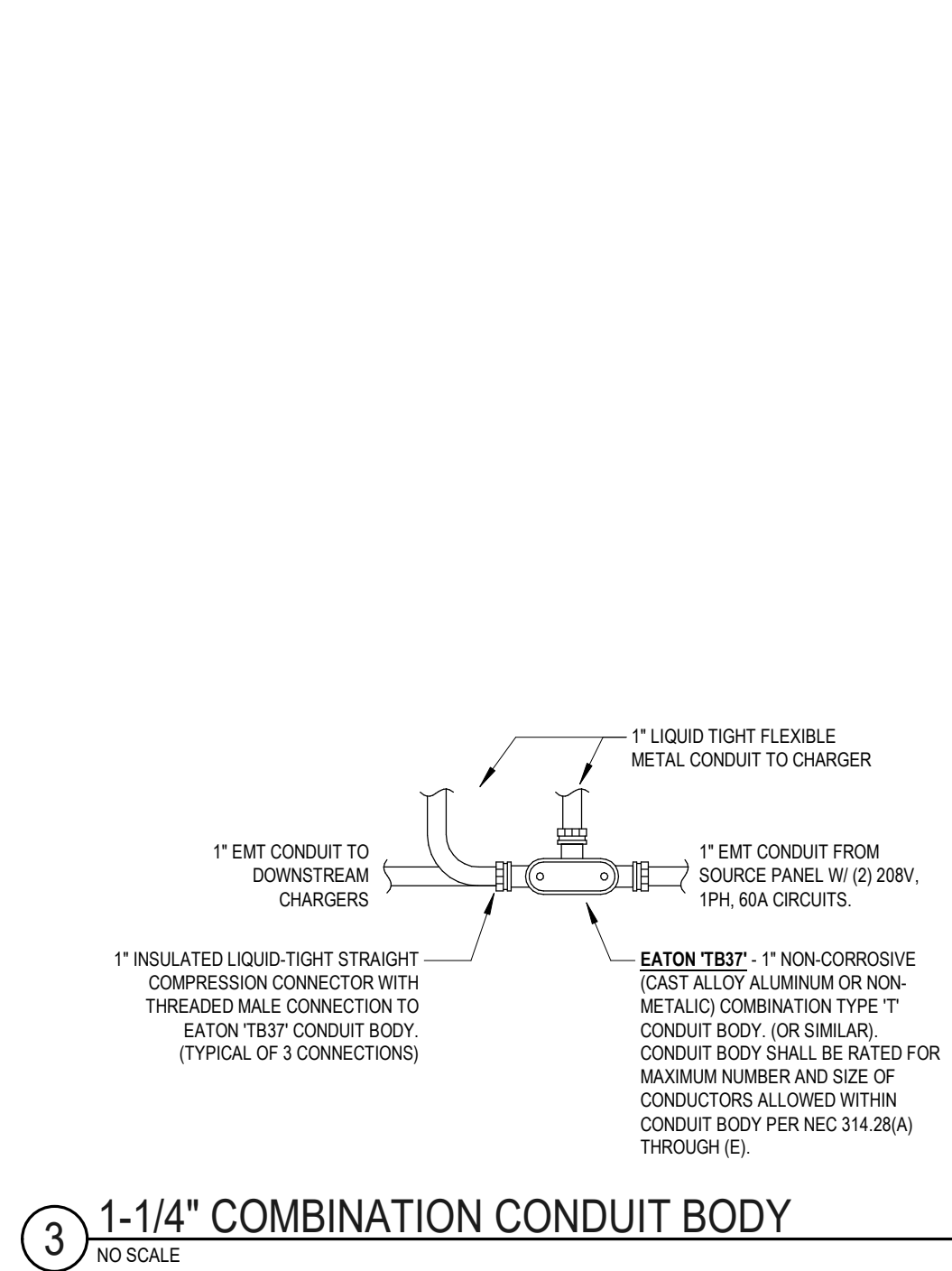
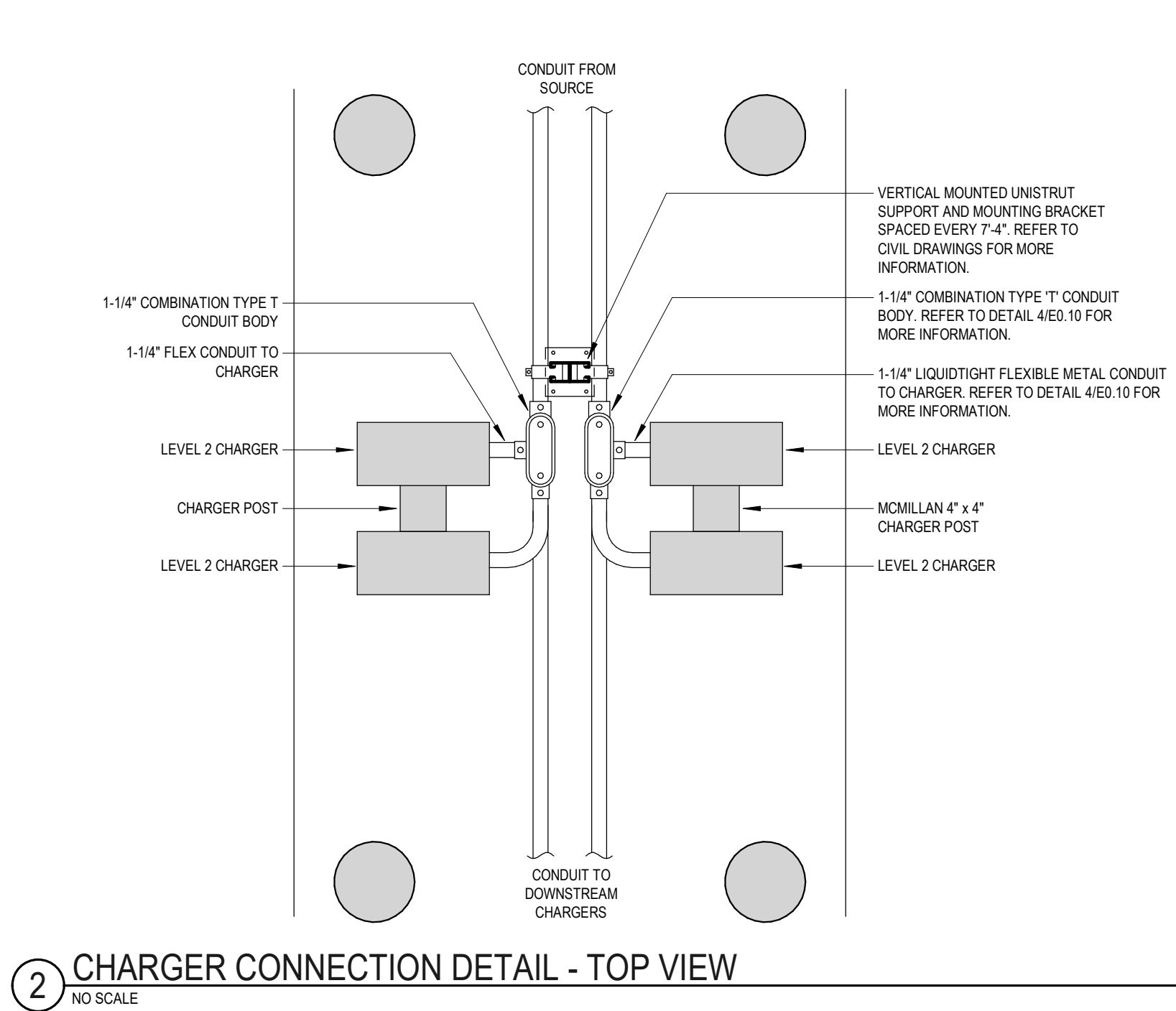
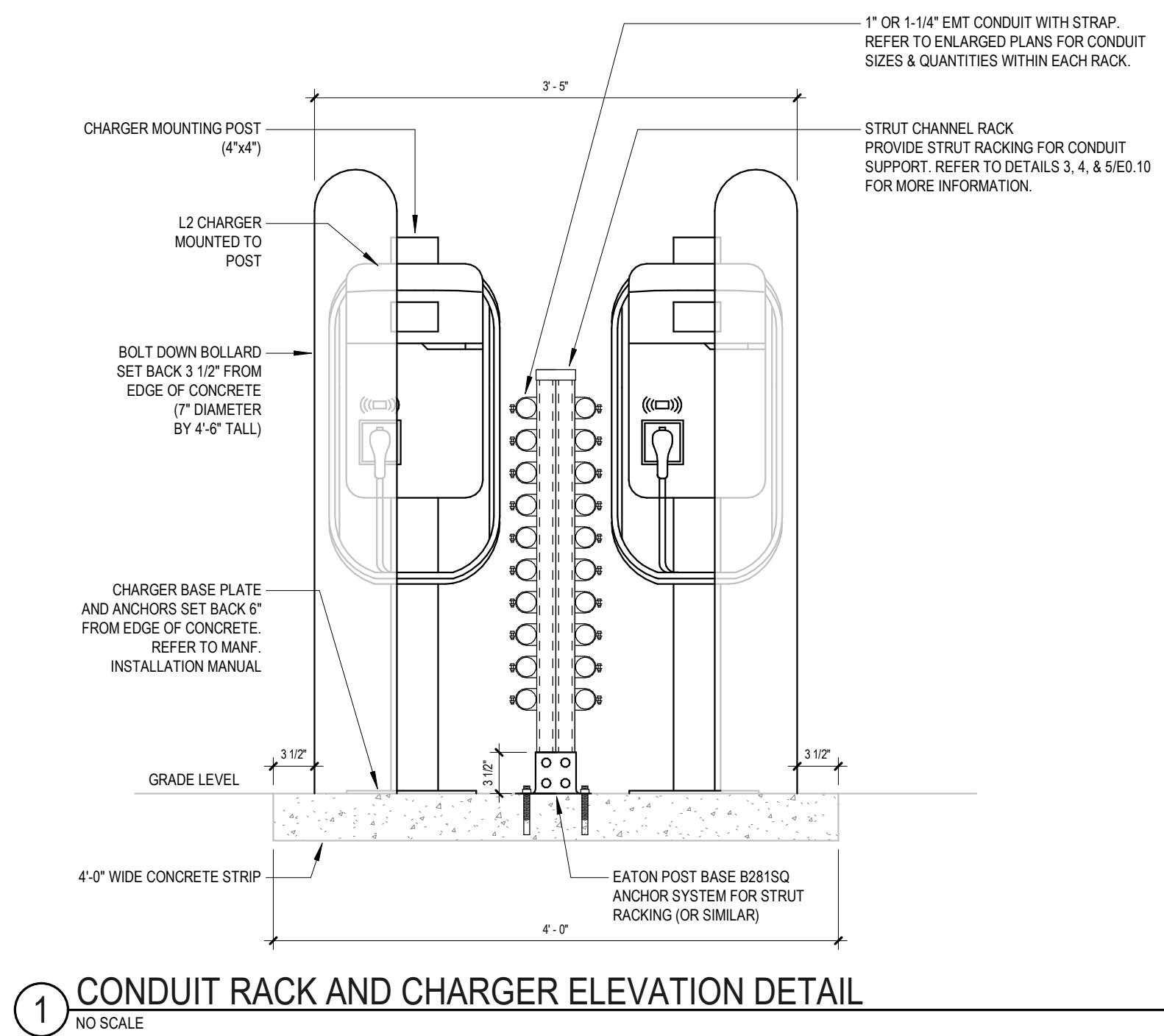
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REVISION RECORD

NO.	DATE	DESCRIPTION
1	01/30/2023	100% PERMIT SET
2	10/02/2023	OWNER REDUCTION



A  
B  
C  
D  
E  
F  
G  
H



ELECTRICAL DETAILS

AMAZON.COM SERVICES LLC  
DELIVERY STATION EXPANSION  
DX4 DELIVERY STATION  
400 ORITANI DRIVE  
ORANGETOWN, NY 10913

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REVISION RECORD

NO	DATE	DESCRIPTION
2	10/02/2023	CHARGER REDUCTION
1	01/30/2023	100% PERMIT SET

DATE:	10/02/23	DRAWN BY:	AE/RR
DWG SCALE:	AS INDICATED	CHECKED BY:	NSA
PROJECT NO:	4383.0063	APPROVED BY:	NSA



E7.02-BP1











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