

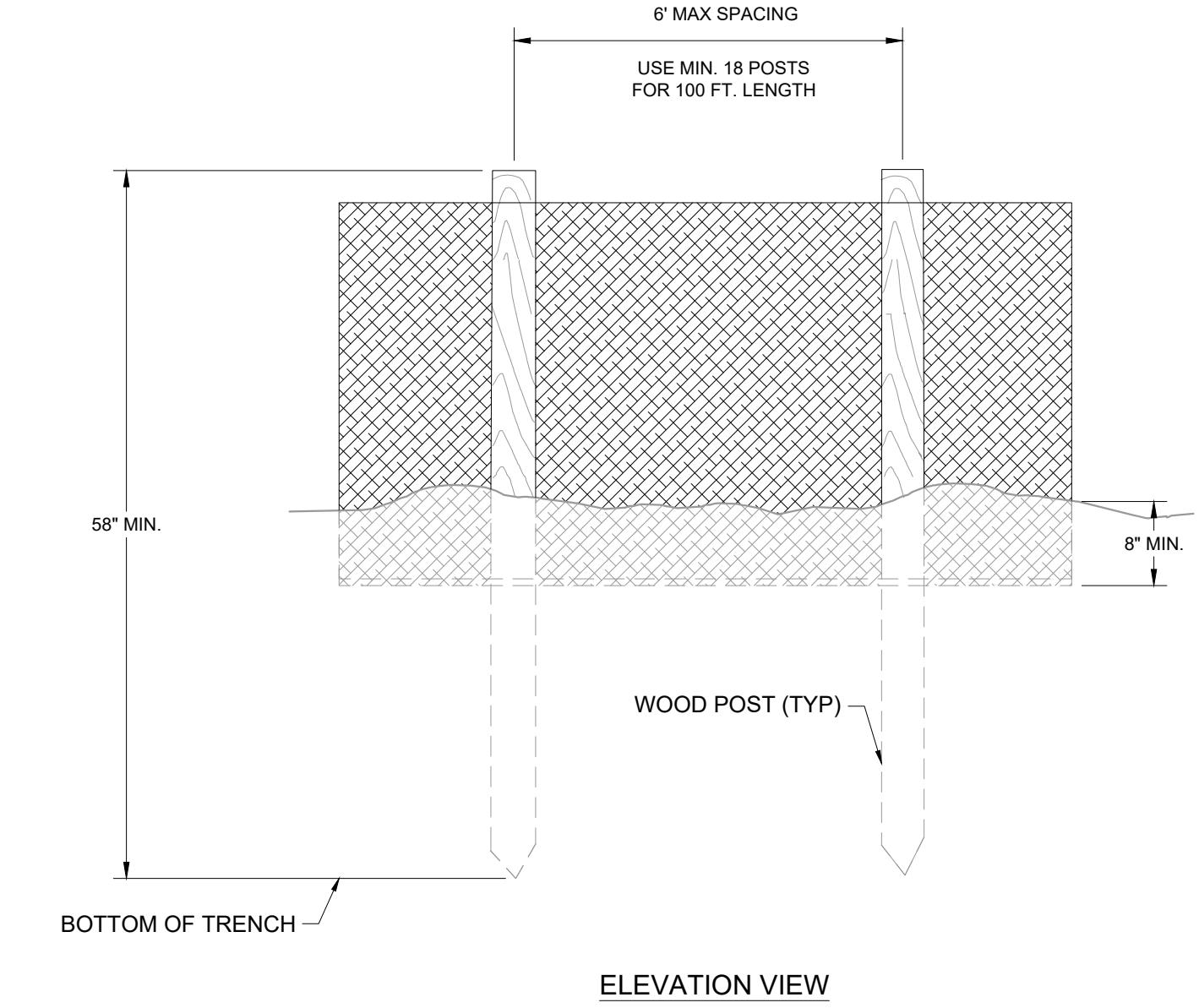
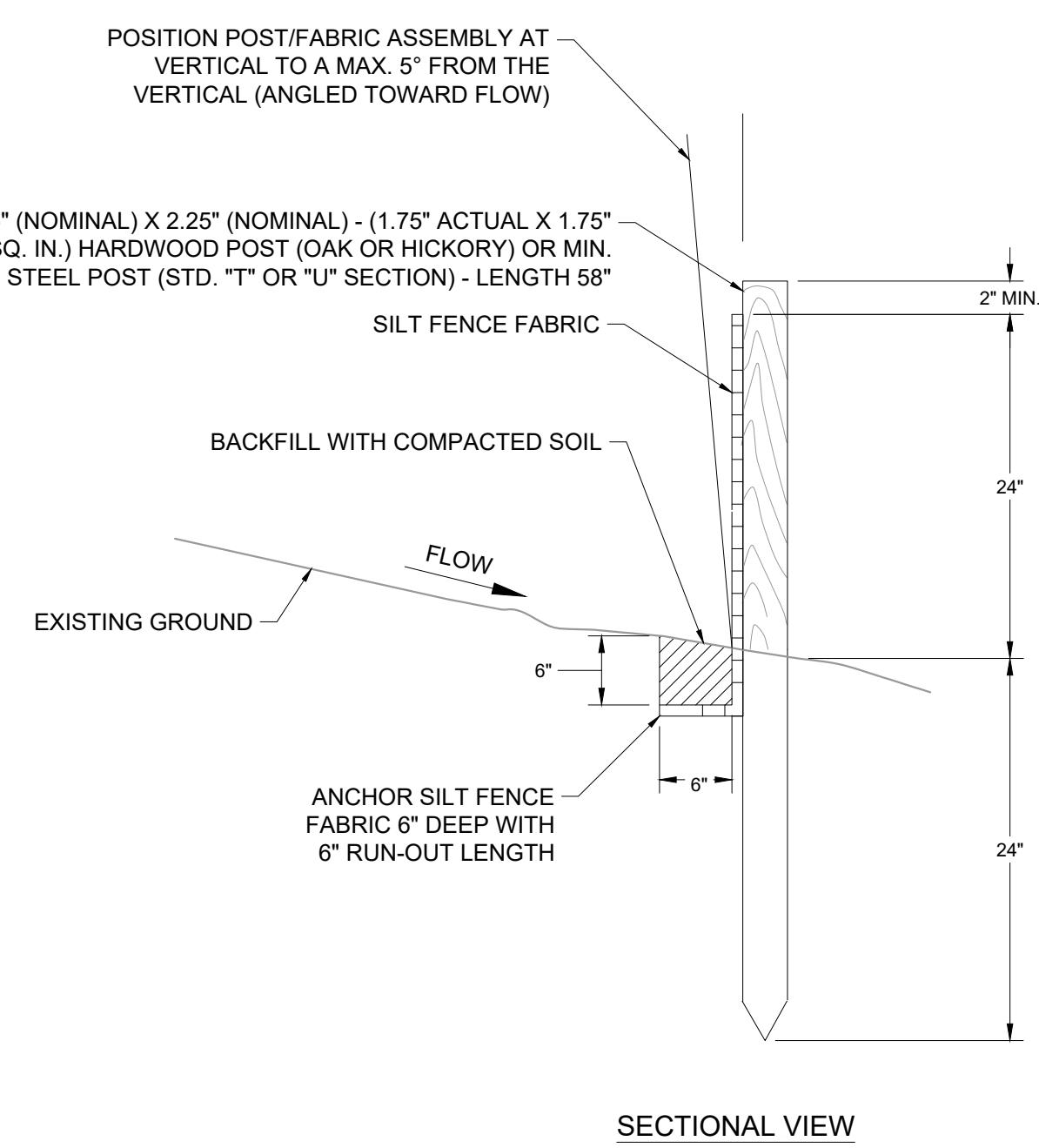
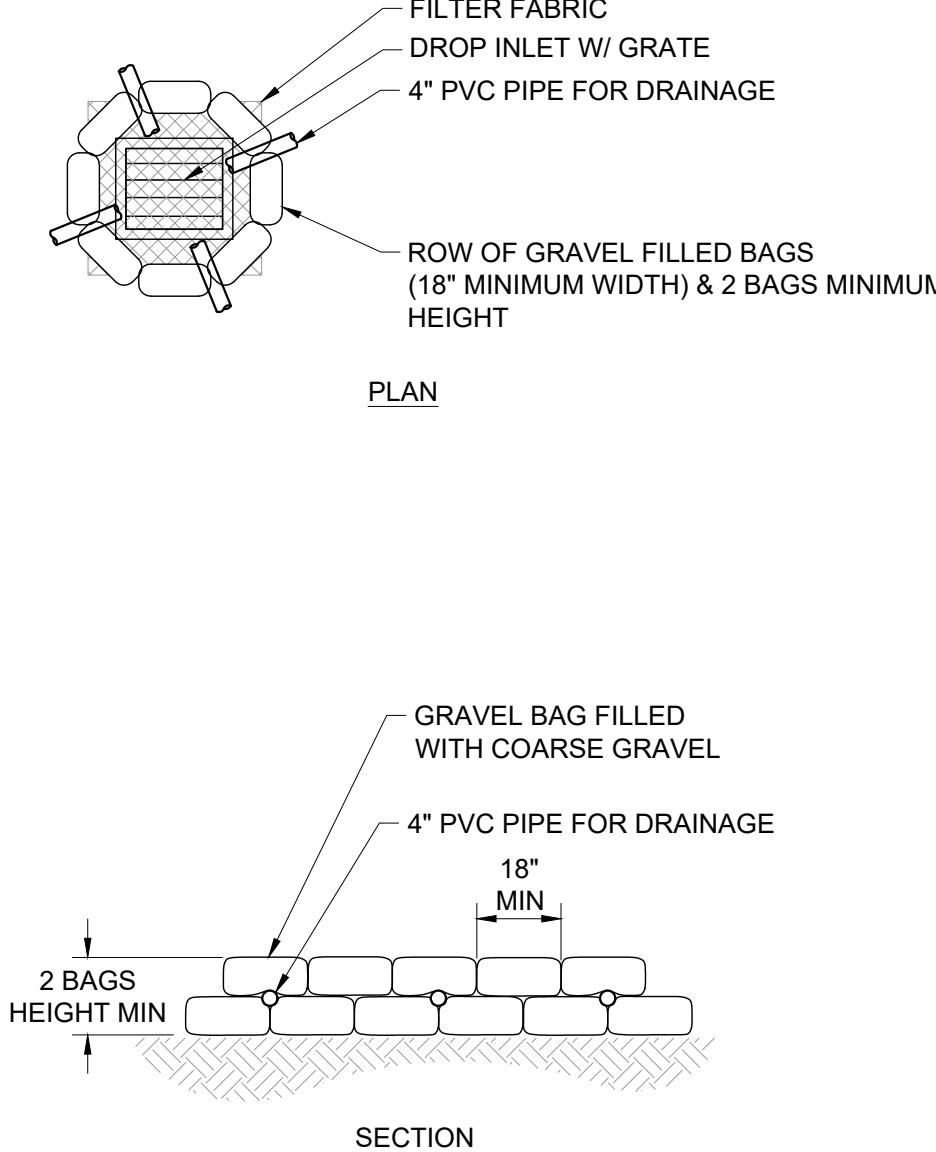
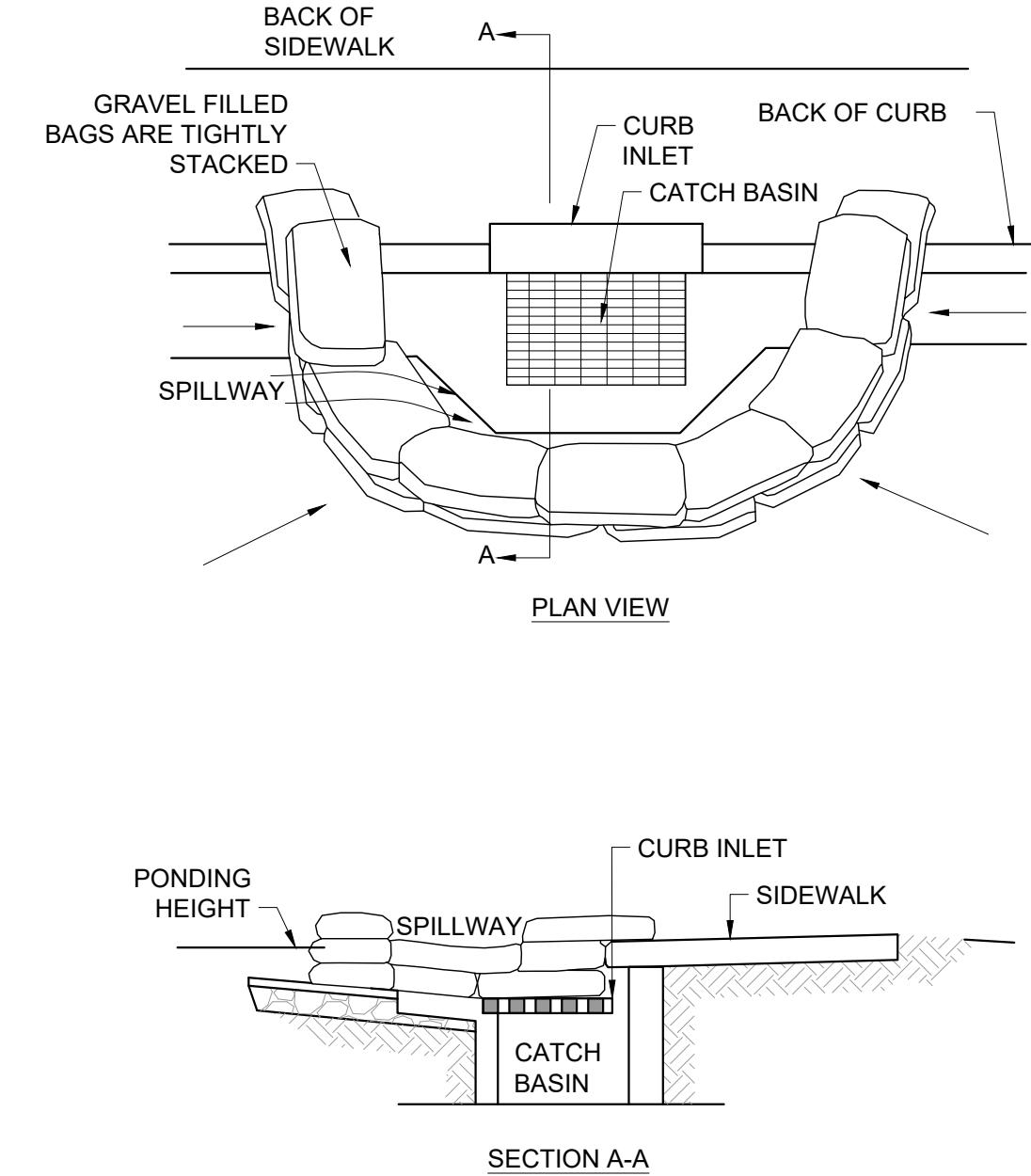


DK01 EV
EV INFRASTRUCTURE PLAN

151 TAYLOR STREET
LITTLETON, MA 01460







NOTES:

1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. GRAVEL BAG MATERIAL: POLYPROPYLENE, POLYETHYLENE OR POLYIMIDE WOVEN FABRIC, MINIMUM UNIT WEIGHT 4 OUNCES PER SQUARE YARD, MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY EXCEEDING 70%.
3. GRAVEL BAG SHALL BE FILLED WITH 3/4" ROCK OR 1/4" PEA GRAVEL.
4. PLACE SEVERAL LAYERS OF SAND BAGS (12" MINIMUM HIGH) OVERLAPPING THE BAGS AND PACKING THEM TIGHTLY TOGETHER.
5. LEAVE GAP OF ONE BAG ON THE TOP ROW TO SERVE AS A SPILLWAY.
6. PLACE FILTER FABRIC OVER WIRE MESH. FILTER FABRIC SHALL BE MANUFACTURED FROM UV RESISTANT POLYPROPYLENE, NYLON, POLYESTER, OR ETHYLENE FABRIC WITH AN EQUIVALENT OPENING SIZE NOT GREATER THAN 20 SIEVE AND WITH A MINIMUM FLOW RATE OF 40 GALLONS/MINUTE/SQ. FT.
7. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

CURB INLET SEDIMENT BARRIER

SCALE
N.T.S.

1

DROP INLET SEDIMENT BARRIER

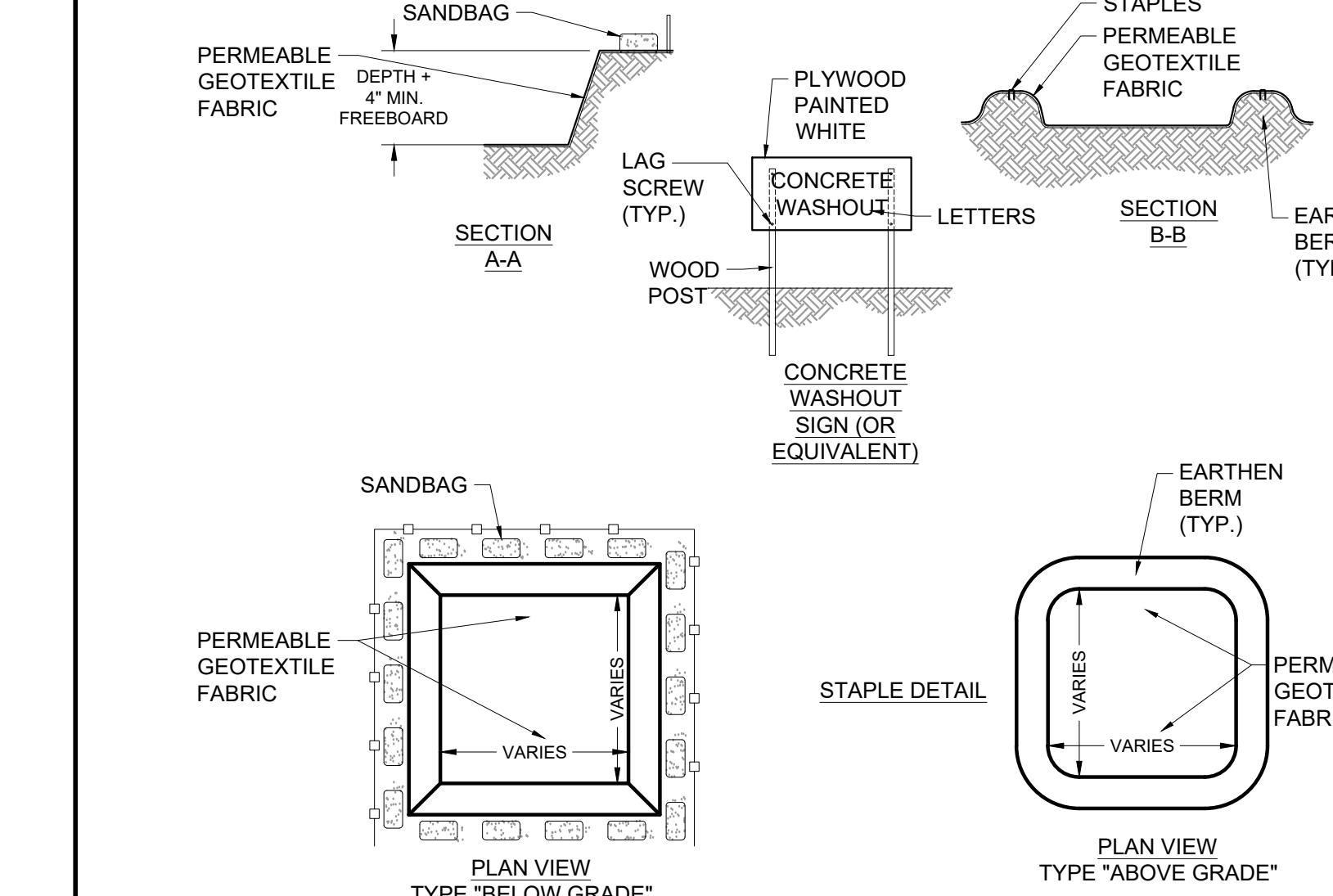
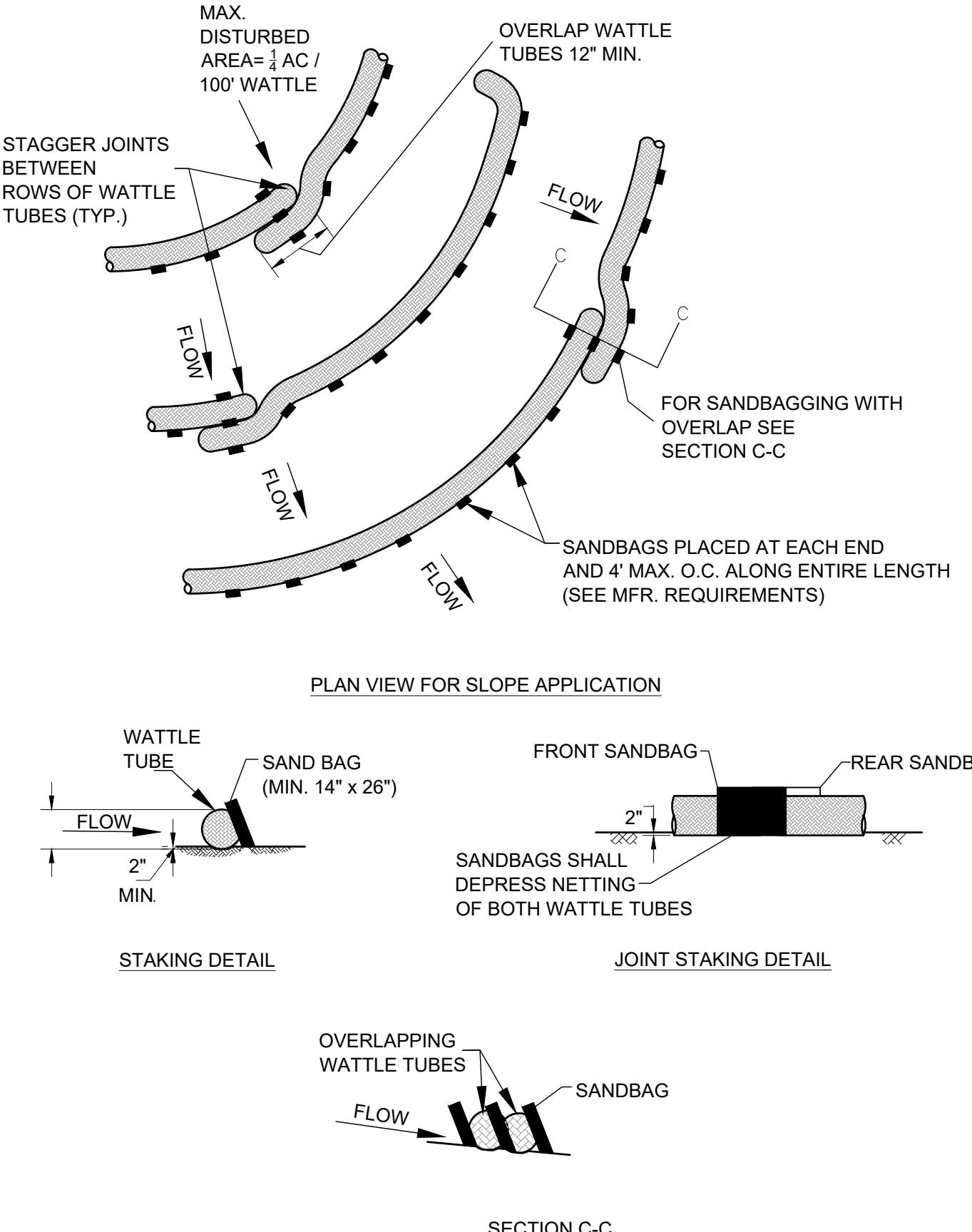
SCALE
N.T.S.

2

SILT FENCE INSTALLMENT

SCALE
N.T.S.

3



CONCRETE WASHOUT

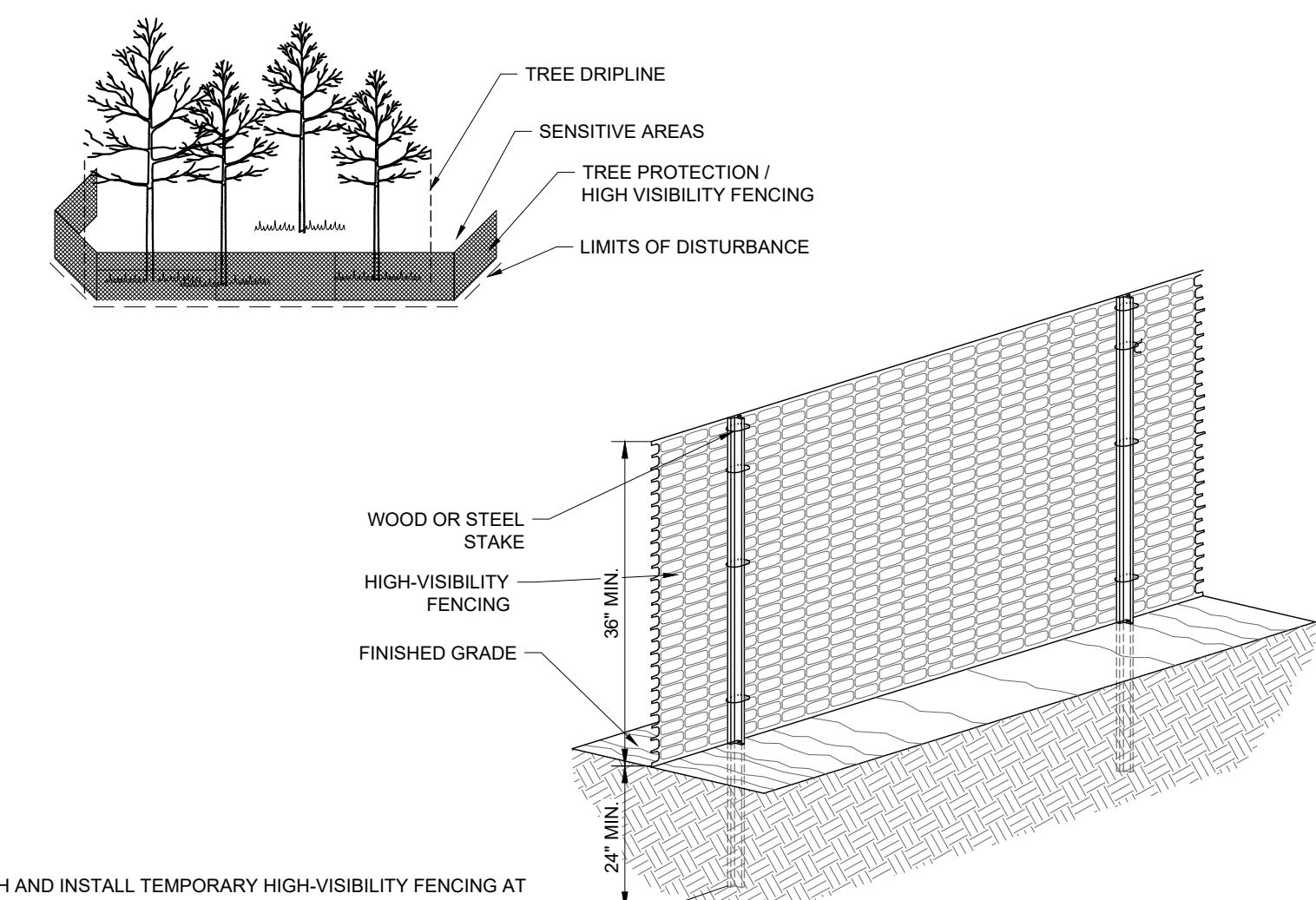
SCALE
N.T.S.

5

TREE PROTECTION

SCALE
N.T.S.

6



PERMANENT STABILIZATION MEASURES SHALL BE
DONE IN ACCORDANCE WITH LOCAL EROSION AND
SEDIMENT CONTROL REQUIREMENTS

EROSION EELS

SCALE
N.T.S.

4

CONSTRUCTION ENTRANCE

SCALE
N.T.S.

7

PERMANENT STABILIZATION

SCALE
N.T.S.

8

NOT USED

SCALE
N.T.S.

9

EV INFRASTRUCTURE PLAN

151 TAYLOR STREET
LITTLETON, MA 01460

Kimley-Horn

404 WYMAN ST, SUITE 385, WALTHAM, MASSACHUSETTS 02451
Main: 781-328-0676 www.kimley-horn.com
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12/20/2024


| REVISIONS | OVERALL TREE PLANTING PLAN | DATE | BY |
|-----------|----------------------------|------------|-----|
| 1 | CLIENT DIRECTED CHANGES | 10/11/2024 | JKG |
| 2 | CLIENT DIRECTED CHANGES | 12/20/2024 | JKG |
| 3 | CLIENT DIRECTED CHANGES | 12/20/2024 | JKG |

| No. | DESIGNED BY: | DRAWN BY: | CHECKED BY: | DATE: |
|-----|--------------|-----------|-------------|------------|
| 1 | I.KC | J.WG | AA | 12/20/2024 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
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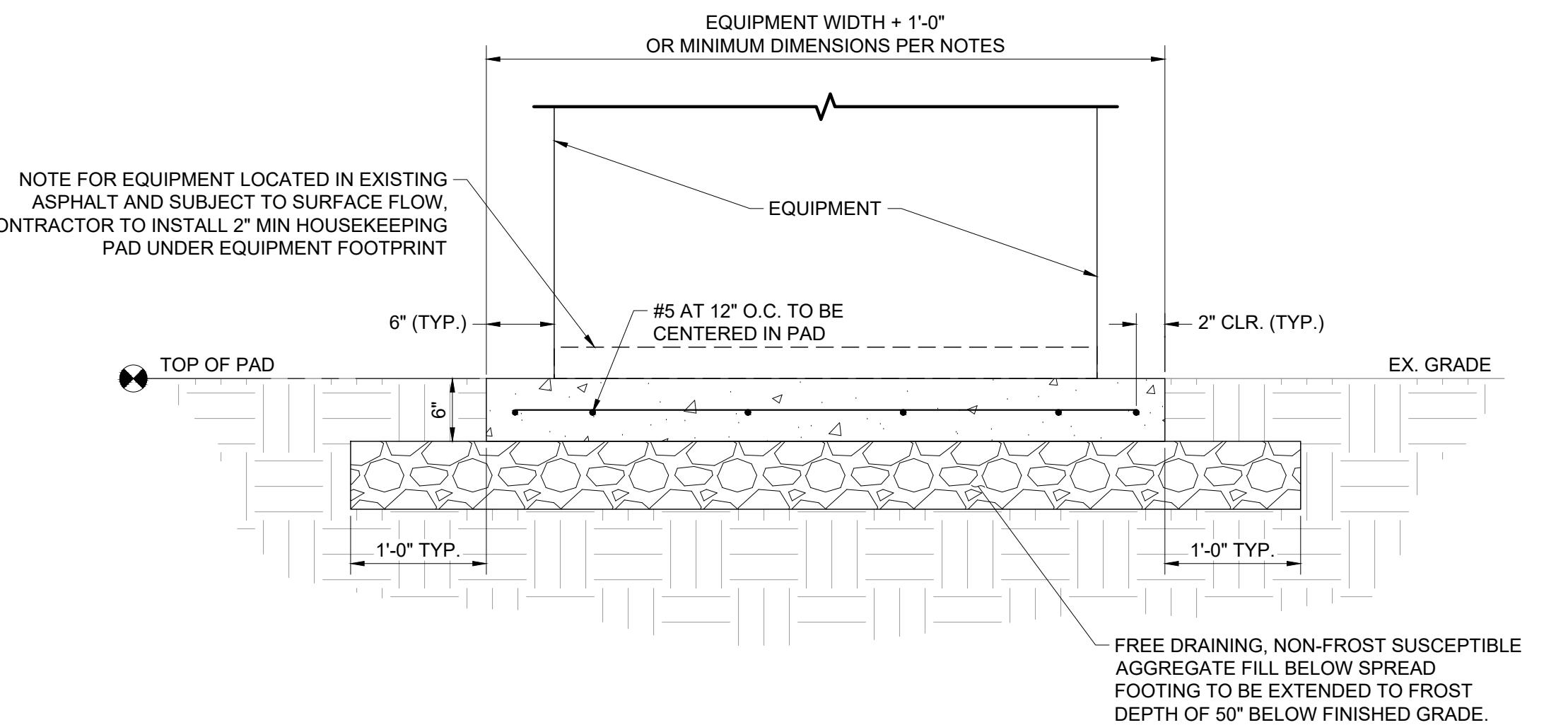
E&S DETAILS

Sheet Number

C6.0



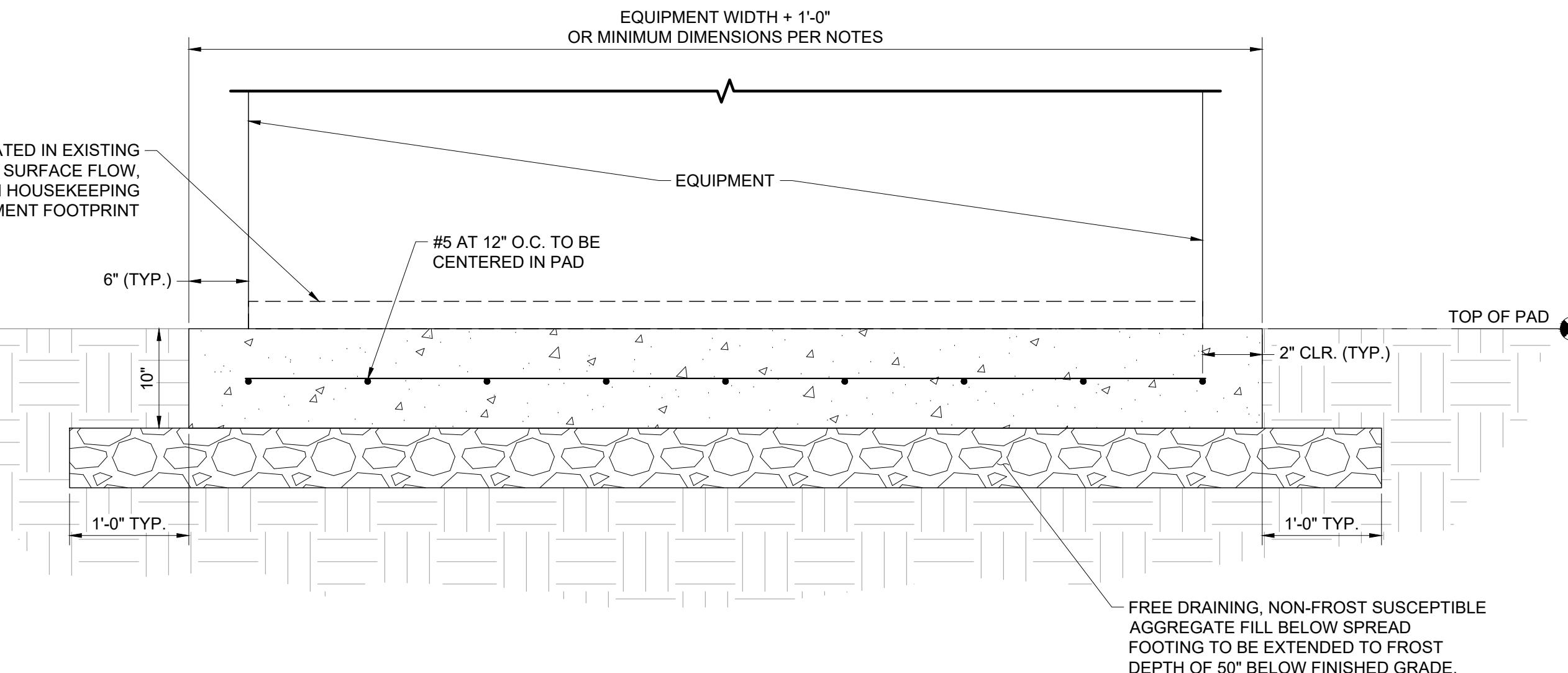
| SPECIAL INSPECTIONS | | | | | | | | | | | | | | | | | |
|--|-------------------------------------|------------------------|------------------------------------|------------------------|------------------------------------|------------|-----------------|--------|--------|---------------|-------------------------------------|-------|--------|----------------|---------------------|--------|--------|
| 1. SPECIAL INSPECTIONS SHALL BE PROVIDED PER 2021 INTERNATIONAL BUILDING CODE (IBC) CHAPTER 17. A. CONCRETE CONSTRUCTION (TABLE 1705.3) SOILS (TABLE 1705.6) | | | | | | | | | | | | | | | | | |
| 2. OWNER WILL ENGAGE A SPECIAL INSPECTOR AND QUALIFIED TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS, AND PREPARE TEST REPORTS. | | | | | | | | | | | | | | | | | |
| 3. THE GENERAL CONTRACTOR SHALL ASSIST AND COOPERATE WITH AN INDEPENDENT TESTING LABORATORY (TO BE RETAINED BY THE OWNER) WHICH SHALL CONDUCT ALL THE SPECIFIED TESTS REQUIRED FOR THE PROJECT AND REPORT THE RESULTS OF THESE TESTS DIRECTLY AND PROMPTLY TO THE ENGINEER FOR HIS REVIEW. | | | | | | | | | | | | | | | | | |
| 4. CONTRACTOR SHALL NOTIFY SPECIAL INSPECTOR AND TESTING AGENCY 48 HOURS IN ADVANCE OF ITEMS REQUIRED FOR SPECIAL INSPECTION. | | | | | | | | | | | | | | | | | |
| 5. ALL SPECIAL INSPECTION MONTHLY REPORTS SHALL BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE STATE OF THE PROJECT, WHO HAS RESPONSIBLE CHARGE OF THE SPECIAL INSPECTIONS PROGRAM. | | | | | | | | | | | | | | | | | |
| 6. A SPECIAL INSPECTIONS MEETING SHALL BE HELD ON SITE WITH ENGINEER OF RECORD, CONSTRUCTION COORDINATOR, INDEPENDENT TESTING AGENCY, AND SPECIAL INSPECTOR TO CLARIFY ALL SPECIAL INSPECTION REQUIREMENTS PRIOR TO BEGINNING TO WORK. | | | | | | | | | | | | | | | | | |
| CONCRETE AND REINFORCEMENT | | | | | | | | | | | | | | | | | |
| 1. CAST-IN-PLACE CONCRETE SHOULD BE $f_c = 4,500$ PSI MIN (CLASS F2), $w/c = 0.45$ MAX, AND TARGET AIR CONTENT OF $6\% \pm 1.5\%$, UNLESS NOTED OTHERWISE. MAXIMUM AGGREGATE SIZE IS 1". | | | | | | | | | | | | | | | | | |
| 2. REINFORCING SHOULD CONFORM TO ASTM A615, GRADE 60, $F_y = 60,000$ PSI. | | | | | | | | | | | | | | | | | |
| 3. HOOKS AND BENDS FOR REINFORCING BARS SHOULD CONFORM TO THE REQUIREMENTS OF THE ADOPTED ACI 318. | | | | | | | | | | | | | | | | | |
| 4. ALL BEND DIMENSIONS FOR REINFORCING STEEL SHOULD BE OUT-TO-OUT OF BARS. ALL PLACEMENT DIMENSIONS FOR REINFORCING STEEL SHOULD BE TO CENTER OF BARS UNLESS NOTED OTHERWISE. | | | | | | | | | | | | | | | | | |
| 5. ALL REINFORCING SHOULD HAVE 2" CLEAR COVER UNLESS NOTED OTHERWISE. | | | | | | | | | | | | | | | | | |
| 6. ALL EXPOSED CONCRETE CORNERS SHOULD BE CHAMFERED 3/4". | | | | | | | | | | | | | | | | | |
| 7. TRIM ALL REINFORCING 2" CLEAR OF OPENINGS. USE #4X4 CENTERED ON CORNER OF OPENINGS. | | | | | | | | | | | | | | | | | |
| POST-INSTALLED ANCHORS | | | | | | | | | | | | | | | | | |
| 1. UNLESS OTHERWISE INDICATED ON PLANS, POST-INSTALLED ANCHORS SHOULD CONSIST OF THE FOLLOWING ANCHOR TYPES, OR APPROVED EQUAL: HILTI KH-EZ 55316 | | | | | | | | | | | | | | | | | |
| 2. 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 AND CURRENT BUILDING CODE. | | | | | | | | | | | | | | | | | |
| FOUNDATIONS | | | | | | | | | | | | | | | | | |
| 1. FOUNDATIONS ARE DESIGNED USING PRESUMPTIVE SOIL VALUES IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE. | | | | | | | | | | | | | | | | | |
| 2. ALL FOOTING EXCAVATIONS SHOULD BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. | | | | | | | | | | | | | | | | | |
| 3. IBC PRESUMPTIVE VERTICAL BEARING CAPACITY: 1,500 PSF | | | | | | | | | | | | | | | | | |
| 4. IBC PRESUMPTIVE LATERAL BEARING CAPACITY: 100 PSF | | | | | | | | | | | | | | | | | |
| 5. CONTRACTOR SHOULD ENGAGE A GEOTECHNICAL TESTING LABORATORY LICENSED IN THE STATE OF THE PROJECT TO CONFIRM SOIL PREPARATION AND SPECIFY PROCEDURES AND SPECIFY COMPACTION REQUIREMENTS NECESSARY TO OBTAIN THE DESIGN SOIL PROPERTIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ENGINEER OF RECORD IF ASSUMED SOIL PROPERTIES CANNOT BE OBTAINED ON SITE. | | | | | | | | | | | | | | | | | |
| PROJECT GENERAL NARRATIVE AND REQUIREMENTS | | | | | | | | | | | | | | | | | |
| 1. THESE CONSTRUCTION DOCUMENTS ARE SPECIFICALLY APPLICABLE TO FOUNDATIONS SUPPORTING THE COMPONENTS LISTED BELOW. THE INFORMATION IN THIS TABLE MAY VARY DEPENDING ON FINAL CLIENT PROCUREMENT DECISIONS. CONTRACTOR AND CLIENT TO CONFIRM FINAL PROCUREMENT SELECTIONS WITH ENGINEER PRIOR TO CONSTRUCTION. | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>COMPONENT NAME</th> <th>COMPONENT DIMENSIONS (WxHxD, FT)</th> <th>COMPONENT WEIGHT (LBS)</th> <th>EQUIVALENT UNIFORM AREA LOAD (PSF)</th> </tr> </thead> <tbody> <tr> <td>SWITCHGEAR</td> <td>19'x8'x9'x6'-0"</td> <td>17,900</td> <td>152.99</td> </tr> <tr> <td>MV TAP SWITCH</td> <td>8'-8 1/2" x 4' x 1 1/2" x 6'-4 1/2"</td> <td>6,400</td> <td>115.43</td> </tr> <tr> <td>MV TRANSFORMER</td> <td>6'x7'x8'-1" x 8'-3"</td> <td>14,500</td> <td>292.93</td> </tr> </tbody> </table> | | COMPONENT NAME | COMPONENT DIMENSIONS (WxHxD, FT) | COMPONENT WEIGHT (LBS) | EQUIVALENT UNIFORM AREA LOAD (PSF) | SWITCHGEAR | 19'x8'x9'x6'-0" | 17,900 | 152.99 | MV TAP SWITCH | 8'-8 1/2" x 4' x 1 1/2" x 6'-4 1/2" | 6,400 | 115.43 | MV TRANSFORMER | 6'x7'x8'-1" x 8'-3" | 14,500 | 292.93 |
| COMPONENT NAME | COMPONENT DIMENSIONS (WxHxD, FT) | COMPONENT WEIGHT (LBS) | EQUIVALENT UNIFORM AREA LOAD (PSF) | | | | | | | | | | | | | | |
| SWITCHGEAR | 19'x8'x9'x6'-0" | 17,900 | 152.99 | | | | | | | | | | | | | | |
| MV TAP SWITCH | 8'-8 1/2" x 4' x 1 1/2" x 6'-4 1/2" | 6,400 | 115.43 | | | | | | | | | | | | | | |
| MV TRANSFORMER | 6'x7'x8'-1" x 8'-3" | 14,500 | 292.93 | | | | | | | | | | | | | | |
| 2. EQUIPMENT YIELDING MAXIMUM EQUIVALENT UNIFORM AREA LOAD WAS USED IN DESIGN OF EQUIPMENT PADS. | | | | | | | | | | | | | | | | | |
| 3. FOUNDATION DESIGN IS BASED ON THE DESIGN CRITERIA. | | | | | | | | | | | | | | | | | |
| 4. IF THE PROJECT IS LOCATED IN AN AREA CLASSIFIED AS SITE CLASS E OR F, A SITE-SPECIFIC GEOTECHNICAL ANALYSIS IS REQUIRED AND THE ENGINEER OF RECORD SHOULD BE CONTACTED IMMEDIATELY. | | | | | | | | | | | | | | | | | |
| 5. THE CONTRACTOR'S SCOPE OF WORK FOR THIS PROJECT SHOULD INCLUDE ALL COORDINATION, MATERIALS, LABOR, AND OVERHEAD NECESSARY FOR COMPLETION OF THE FOLLOWING: | | | | | | | | | | | | | | | | | |
| A. ALL STRUCTURES ARE DESIGNED TO ACT AS A STRUCTURAL UNIT UPON COMPLETION. CONTRACTOR SHOULD DESIGN AND PROVIDE NECESSARY BRACING, TEMPORARY SUPPORTS, AND SHORING TO RESIST FORCES ON THE STRUCTURE DURING CONSTRUCTION. | | | | | | | | | | | | | | | | | |
| B. VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO STARTING WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES. | | | | | | | | | | | | | | | | | |
| C. VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO STARTING WORK. | | | | | | | | | | | | | | | | | |
| D. CONTRACTOR MUST EXERCISE EXTREME CARE DURING THE EXCAVATION AND CONSTRUCTION FOR NEW STRUCTURE TO AVOID DAMAGE TO EXISTING STRUCTURES. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL MEANS AND METHODS REQUIRED TO FACILITATE CONSTRUCTION OF THE WORK AND ENSURING THE SAFETY, STABILITY AND INTEGRITY OF ADJACENT STRUCTURES AND FACILITIES. | | | | | | | | | | | | | | | | | |
| E. CONTRACTOR MUST ENGAGE A GEOTECHNICAL ENGINEER TO FIELD VERIFY SOIL PARAMETERS NOTED IN THE FOUNDATION NOTES AND CONCRETE CLASS NOTED UNDER CONCRETE NOTES. | | | | | | | | | | | | | | | | | |
| DESIGN CRITERIA | | | | | | | | | | | | | | | | | |
| 1. DESIGN CRITERIA IS BASED ON THE CONTROLLING GEOGRAPHICAL LOADINGS CONSIDERING CLIENT-PROVIDED PROJECT LOCATIONS IN THE UNITED STATES. | | | | | | | | | | | | | | | | | |
| 2. THE DESIGN CRITERIA PERTAINING TO EACH SPECIFIC SITE WILL DIFFER FROM THE DESIGN CRITERIA LISTED BELOW. THE DESIGN CRITERIA LISTED BELOW IS CONSERVATIVE RELATIVE TO THE SITE-SPECIFIC DESIGN WITH THE CONSIDERATION OF PROJECT GENERAL NARRATIVE AND REQUIREMENTS OF NOTE 4, ABOVE. | | | | | | | | | | | | | | | | | |
| 3. BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE | | | | | | | | | | | | | | | | | |
| 4. DESIGN LOADS: | | | | | | | | | | | | | | | | | |
| RISK CATEGORY = II | | | | | | | | | | | | | | | | | |
| DEAD LOAD: | | | | | | | | | | | | | | | | | |
| SELF WEIGHT OF MATERIAL | | | | | | | | | | | | | | | | | |
| WIND: | | | | | | | | | | | | | | | | | |
| DESIGN WIND SPEED (3 SEC. GUST) = 130 MPH (ULTIMATE) | | | | | | | | | | | | | | | | | |
| WIND EXPOSURE = C | | | | | | | | | | | | | | | | | |
| SEISMIC: | | | | | | | | | | | | | | | | | |
| SEISMIC IMPORTANCE FACTOR, IE = 1.0 | | | | | | | | | | | | | | | | | |
| MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS: | | | | | | | | | | | | | | | | | |
| $S_{6g} = 0.309g$ | | | | | | | | | | | | | | | | | |
| $S_{9g} = 0.416g$ | | | | | | | | | | | | | | | | | |
| SITE CLASS = D, DEFAULT | | | | | | | | | | | | | | | | | |
| DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS: | | | | | | | | | | | | | | | | | |
| $S_{6g} = 0.113g$ | | | | | | | | | | | | | | | | | |
| $S_{9g} = 0.113g$ | | | | | | | | | | | | | | | | | |
| SEISMIC DESIGN CATEGORY = C | | | | | | | | | | | | | | | | | |
| RESPONSE MODIFICATION COEFFICIENT (R_d) = 3.0 | | | | | | | | | | | | | | | | | |
| FROST DEPTH = 50" | | | | | | | | | | | | | | | | | |
| CONSTRUCTION NOTES | | | | | | | | | | | | | | | | | |
| 1. FOUNDATION DIMENSIONS ARE BASED ON STANDARD EQUIPMENT SIZING AND WILL REQUIRE 6" CLEAR FROM EDGE OF EQUIPMENT TO EDGE OF PAD ON ALL SIDES. IF THE PROCURED EQUIPMENT IS LARGER IN SIZE THAN WHAT THE PAD WILL ALLOW, ENGINEER OF RECORD SHOULD BE CONTACTED AND LARGER PAD WILL BE REQUIRED. | | | | | | | | | | | | | | | | | |
| 2. TOP OF EQUIPMENT PAD IS INTENDED TO BE LEVEL. GC TO COORDINATE PAD EMBEDMENT DEPTH WITH ACTUAL SITE GRADING PLANS. | | | | | | | | | | | | | | | | | |
| 3. SOIL COMPACTION AND SUBGRADE REQUIREMENTS TO BE COMPLETED BASED ON THE LATEST GEOTECHNICAL REPORT WHICH WAS NOT PROVIDED TO THE ENGINEER AS PART OF THIS DESIGN. | | | | | | | | | | | | | | | | | |
| 4. WHEN EMBEDDED BOLLARDS ARE REQUIRED PER SITE LAYOUT, CONTRACTOR SHALL PLACE BOLLARDS IN ACCORDANCE WITH PROVISIONS ON DETAIL 6 - THIS SHEET. FOUNDATIONS TO BE SPACED WITH A MINIMUM OF 6' BETWEEN EDGE OF FOUNDATION | | | | | | | | | | | | | | | | | |
| STRUCTURAL NOTES | | | | | | | | | | | | | | | | | |
| 1. BOLLARD - EMBEDDED | | | | | | | | | | | | | | | | | |
| 2. BOLLARD - POST INSTALLED | | | | | | | | | | | | | | | | | |
| 3. NOT USED | | | | | | | | | | | | | | | | | |



FOUNDATION FOR LV TRANSFORMER AND LVSB

SCALE
N.T.S. 2 NOT USED

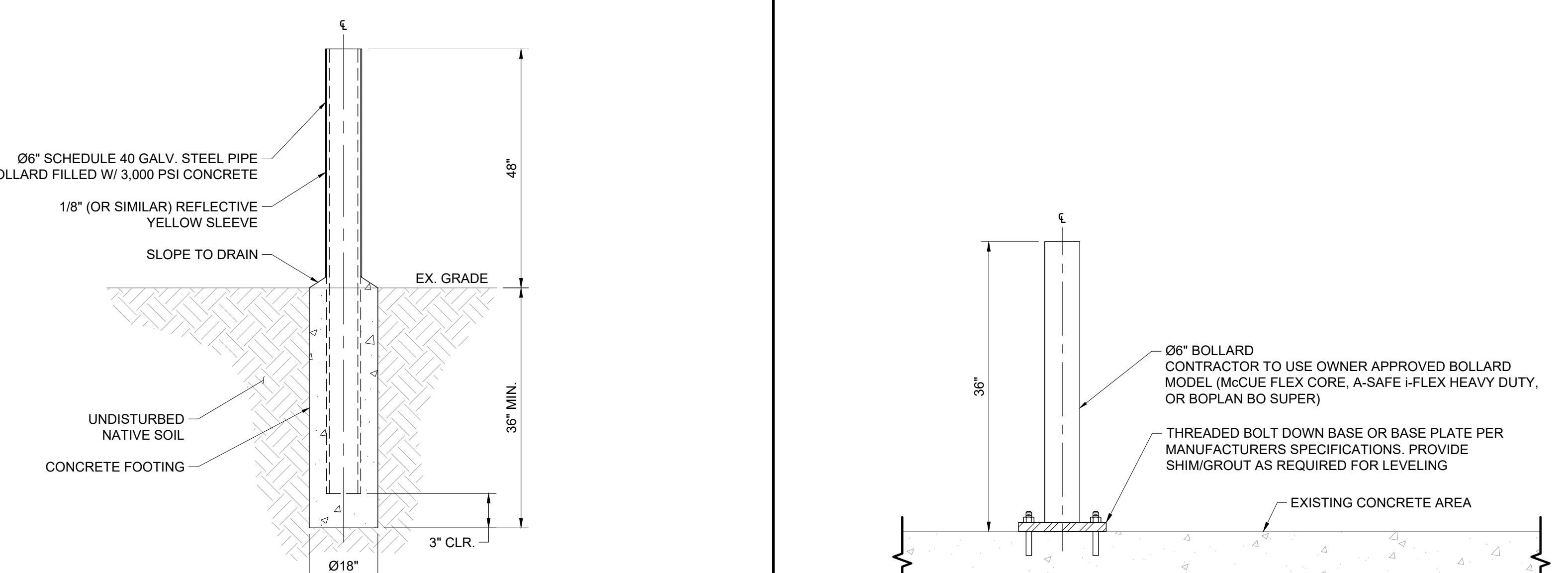
SCALE
N.T.S. 3



FOUNDATION FOR SWITCHGEAR, MV TRANSFORMER, AND MV SWITCH

SCALE
N.T.S. 4 NOT USED

SCALE
N.T.S. 5



NOTES:
1. CONTRACTOR TO ENSURE PLACEMENT OF BOLLARD DOES NOT INTERFERE WITH ANY EQUIPMENT DOOR OPENINGS OR RESTRICT ACCESS TO SERVICE EQUIPMENT.
2. CONTRACTOR TO ENSURE BOLLARD PLACEMENT DOES NOT OBSTRUCT EQUIPMENT CLEARANCE REQUIREMENTS.
3. THIS DETAIL SHALL ONLY BE USED BOLLARD INSTALLATIONS WITHIN AN EXTERIOR PARKING LOT.
4. **THIS BOLLARD IS NOT RATED FOR VEHICULAR IMPACT.**
5. EMBEDDED CONCRETE BOLLARDS ARE REQUIRED FOR PROTECTION OF ALL ELECTRICAL GEAR AND MUST BE PLACED IN A LOCATION TO AVOID ANY CONFLICT WITH EQUIPMENT DOOR OPENINGS OR RESTRICT ACCESS TO SERVICE THE EQUIPMENT. BOLLARDS ARE REQUIRED AT ALL GEAR LOCATIONS UNLESS GEAR IS PLACED ON A 6" MINIMUM RAISED CURB AND AT LEAST 10ft FROM THE FACE OF THE CURB.

NOTES:
1. CONTRACTOR SHALL X-RAY CONCRETE SLAB TO FIELD VERIFY EXISTING REINFORCEMENT LOCATIONS PRIOR TO DRILLING. CONTRACTOR SHALL TAKE GREAT CARE TO ENSURE AT LEAST 3" GAP BETWEEN ANCHORS AND EXISTING REINFORCEMENT AND STRESSING TENDONS.
2. CONTRACTOR TO ENSURE BOLLARD PLACEMENT DOES NOT OBSTRUCT 3' DOOR SWING ON BOTH SIDES OF MEDIA STATION.
3. **THIS BOLLARD IS NOT RATED FOR VEHICULAR IMPACT.**
4. IMPACT-RATED BOLT DOWN BOLLARDS TO BE USED FOR PROTECTION FOR CHARGERS AND ABOVE-GROUND SOLUTIONS ONLY.

STRUCTURAL NOTES

SCALE
N.T.S. 7 NOT USED


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N.T.S. 8 C8.0

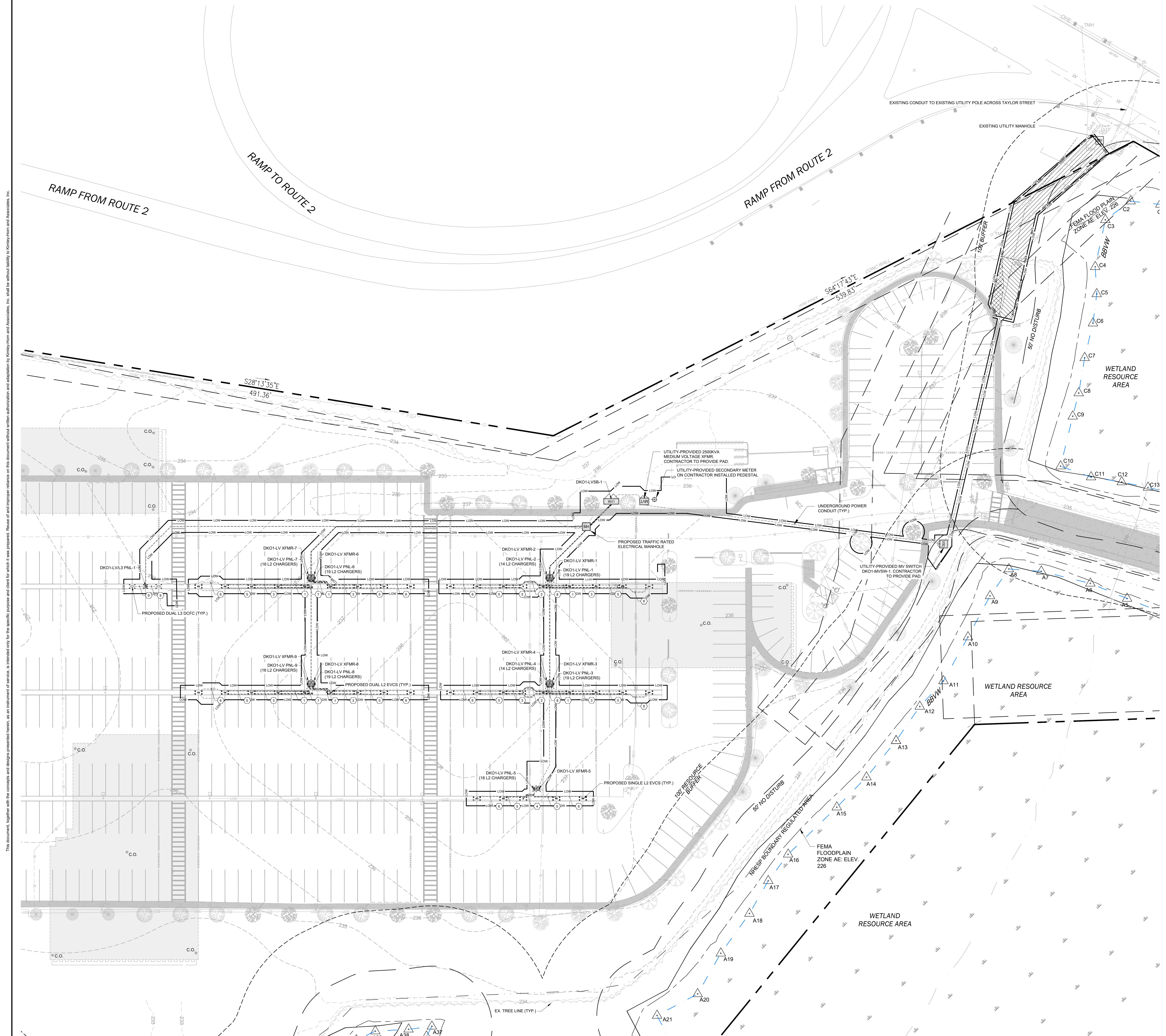
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| REVISIONS | DATE | BY |
| 1 | OVERALL PLANTING PLAN | 10/20/24 |
| 2 | CLIENT DIRECTED CHANGES | 10/11/24 |
| 3 | IG | 10/20/24 |
| 4 | KN | 10/20/24 |
| 5 | CLIENT DIRECTED CHANGES | 12/20/24 |
| 6 | KN | 12/20/24 |
| 7 | AA | 12/20/24 |
| 8 | JKW | 12/20/24 |
| 9 | JKW | 12/20/24 |
| 10 | JKW | 12/20/24 |

STRUCTURAL DETAILS

SHEET NUMBER

C8.0





LEGEND

| ITEM | DESCRIPTION |
|-------|---|
| | CONDUIT AND CONDUCTOR FEEDER CALLOUT |
| | EV VAN STALL PARKING COUNT |
| ----- | POWER CONDUIT - UNDERGROUND |
| | EXISTING UTILITY MANHOLE |
| | UTILITY SWITCHING CABINET - PAD MOUNTED |
| | UTILITY METER |
| | UTILITY TRANSFORMER - PAD MOUNTED |
| | ELECTRICAL MANHOLE |
| | 480V LV SWITCHBOARD - PAD MOUNTED |
| | LV TRANSFORMER - PAD MOUNTED |
| | LV PANEL - UNISTRUT MOUNTED (U.O.N.) |
| | NEMA 3R JUNCTION BOX |
| | L3 DC FAST CHARGING STATION (DCFC) |
| | L2 EVCS - POST-MOUNTED W/ JUNCTION BOX |
| | EMBEDDED BOLLARD |
| | POST INSTALLED BOLLARD |

DKO1-EV EV INFRASTRUCTURE PLAN

**DKO1-EV
STRUCTURE**

151 TAYLOR STREET
LITTLETON, MA 01460

Kimley » Horn

A circular seal for a professional engineer. The outer ring contains the text "COMMONWEALTH OF MASSACHUSETTS" at the top and "REGISTERED PROFESSIONAL ENGINEER" at the bottom, both in a serif font. The inner circle contains "RYAN" on top, "GRAM" in the middle, and "CIVIL" on the bottom, all in a bold, sans-serif font. Below "CIVIL" is the number "No. 55741". A signature "Ryan Gram" is written across the center of the inner circle. The entire seal is enclosed in a decorative scalloped border.

| | | |
|---------------|------------|----|
| PLANTING PLAN | 10/02/2024 | FW |
| DO CHANGES | 10/11/2024 | JG |
| DO CHANGES | 12/20/2024 | KN |


KEY MAP

N.T.S.

ELECTRICAL SITE PLATE

SHEET NUMBER

F10

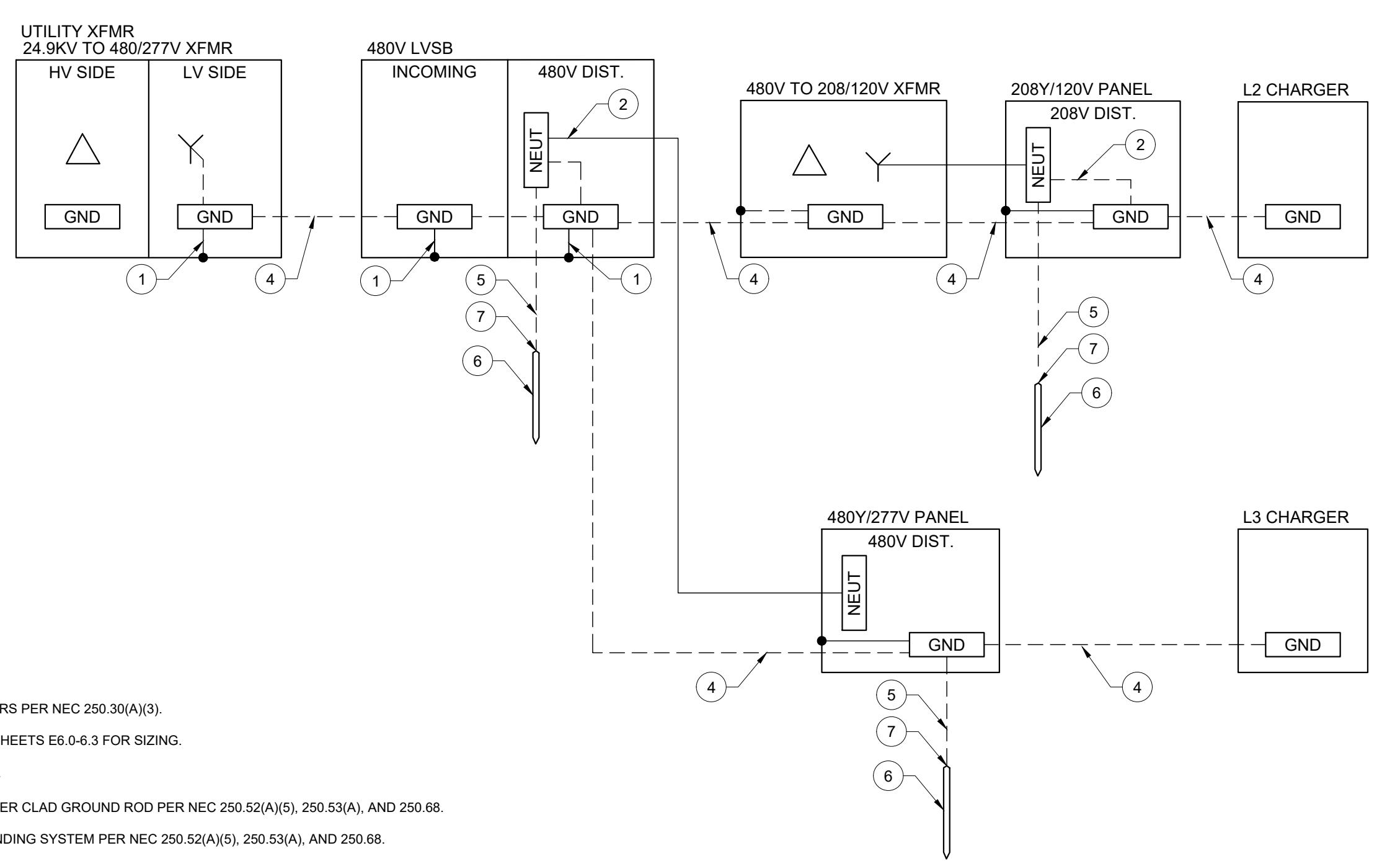


DK01 EV INFRASTRUCTURE PLAN

151 TAYLOR STREET
LITTLETON, MA 01460

Kimley»Horn

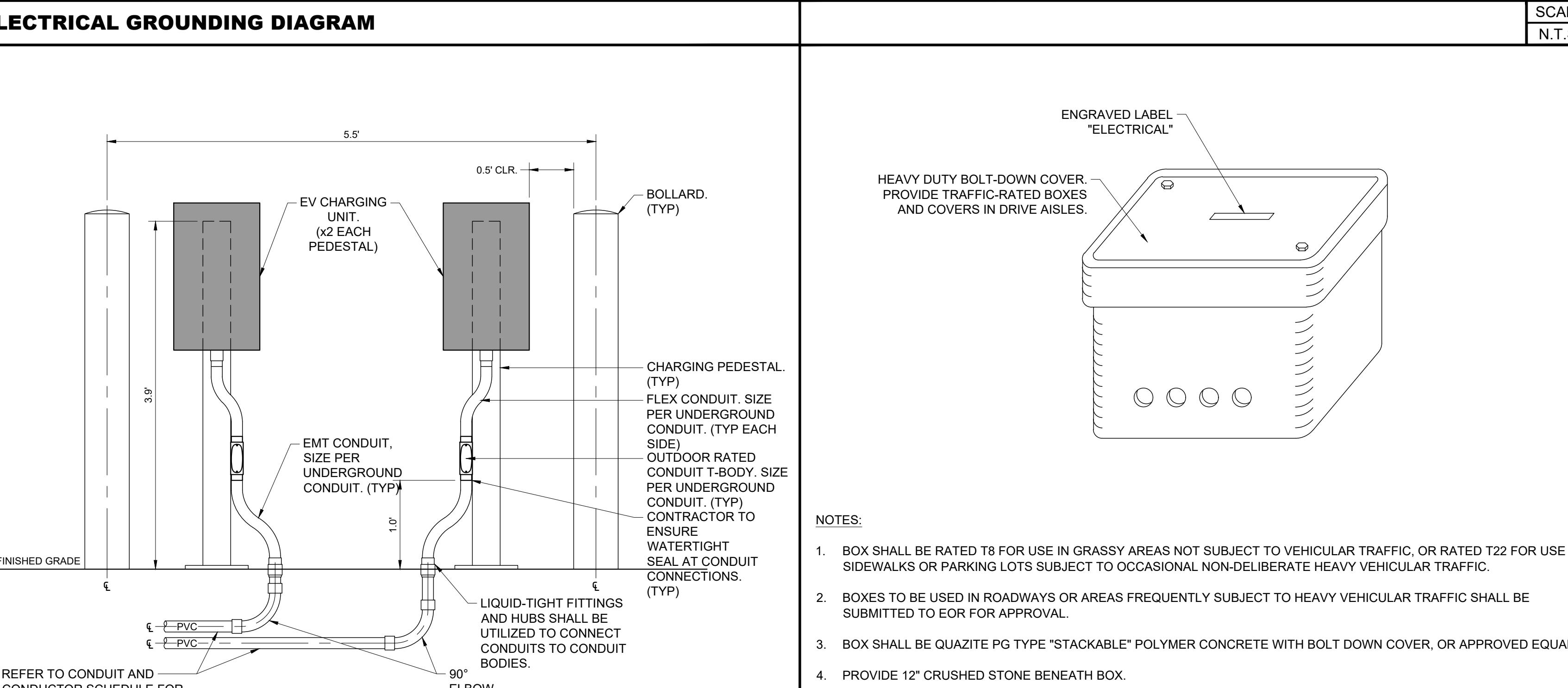
404 WYMAN ST, SUITE 385, WALTHAM, MASSACHUSETTS 02451
Main: 781-328-0676 www.kimley-horn.com
©2024 Kimley-Horn and Associates, Inc.



KEYNOTES:

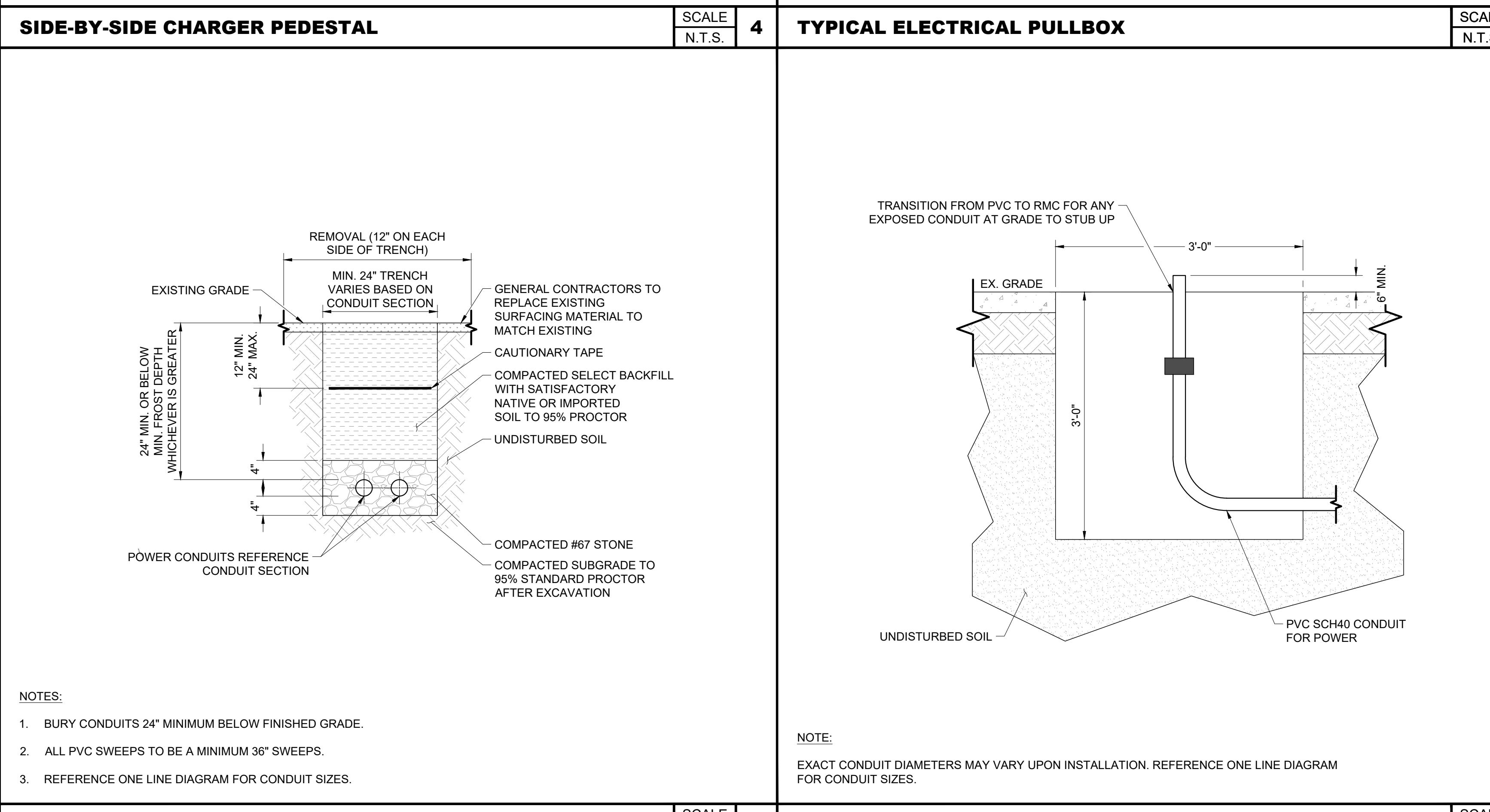
- 1 PROVIDE SUPPLY SIDE BONDING JUMPER PER NEC 250.30(A)(2), NEC 250.196(B).
- 2 PROVIDE MAIN BONDING JUMPER PER NEC 250.241(A)(4), 250.28(C), AND 250.87.
- 3 GROUNDED CONDUCTOR (NEUTRAL) INSTALLED IN SAME CONDUITS AS UNGROUNDED CONDUCTORS PER NEC 250.30(A)(3).
- 4 PROVIDE EQUIPMENT GROUNDING CONDUCTOR PER NEC 250.190(C). SEE ONE LINE DIAGRAM ON SHEETS E6.0-6.3 FOR SIZING.
- 5 SEE ONE-LINE DIAGRAM ON SHEETS E6.0 - E6.3 FOR GROUNDING ELECTRODE CONDUCTOR SIZING.
- 6 EXTERIOR EQUIPMENT: GROUNDING ELECTRODE CONDUCTOR TO BE BONDED TO 5/8" X 8'-0" COPPER CLAD GROUND ROD PER NEC 250.52(A)(5), 250.53(A), AND 250.68.
- 7 INTERIOR EQUIPMENT: GROUNDING ELECTRODE CONDUCTOR TO BE BONDED TO EXISTING GROUNDING SYSTEM PER NEC 250.52(A)(6), 250.53(A), AND 250.68.

ELECTRICAL GROUNDING DIAGRAM



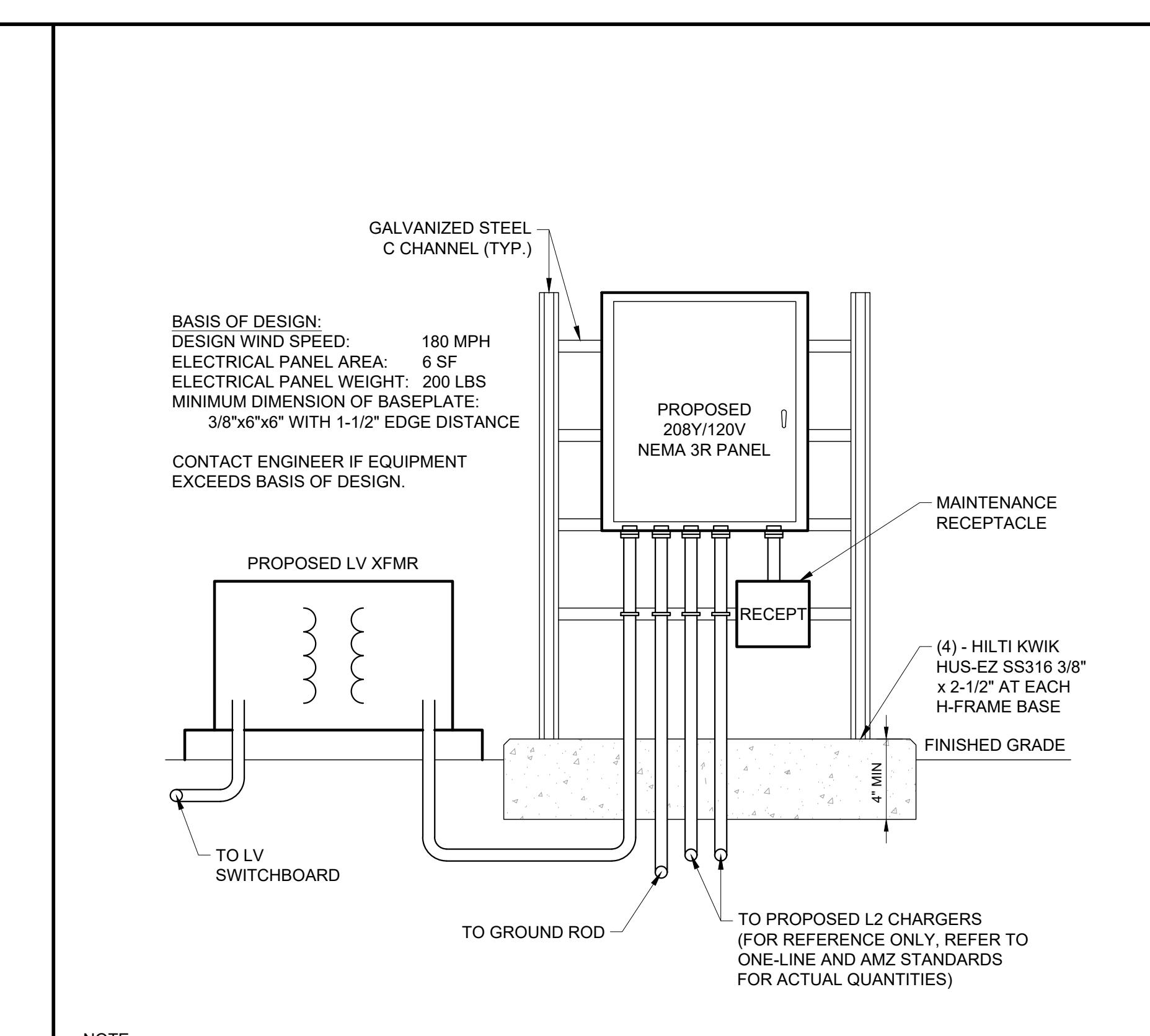
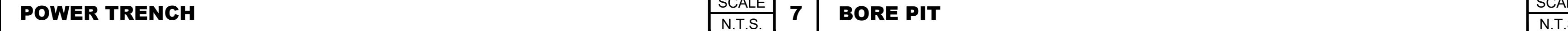
SIDE-BY-SIDE CHARGER PEDESTAL

TYPICAL ELECTRICAL PULLBOX

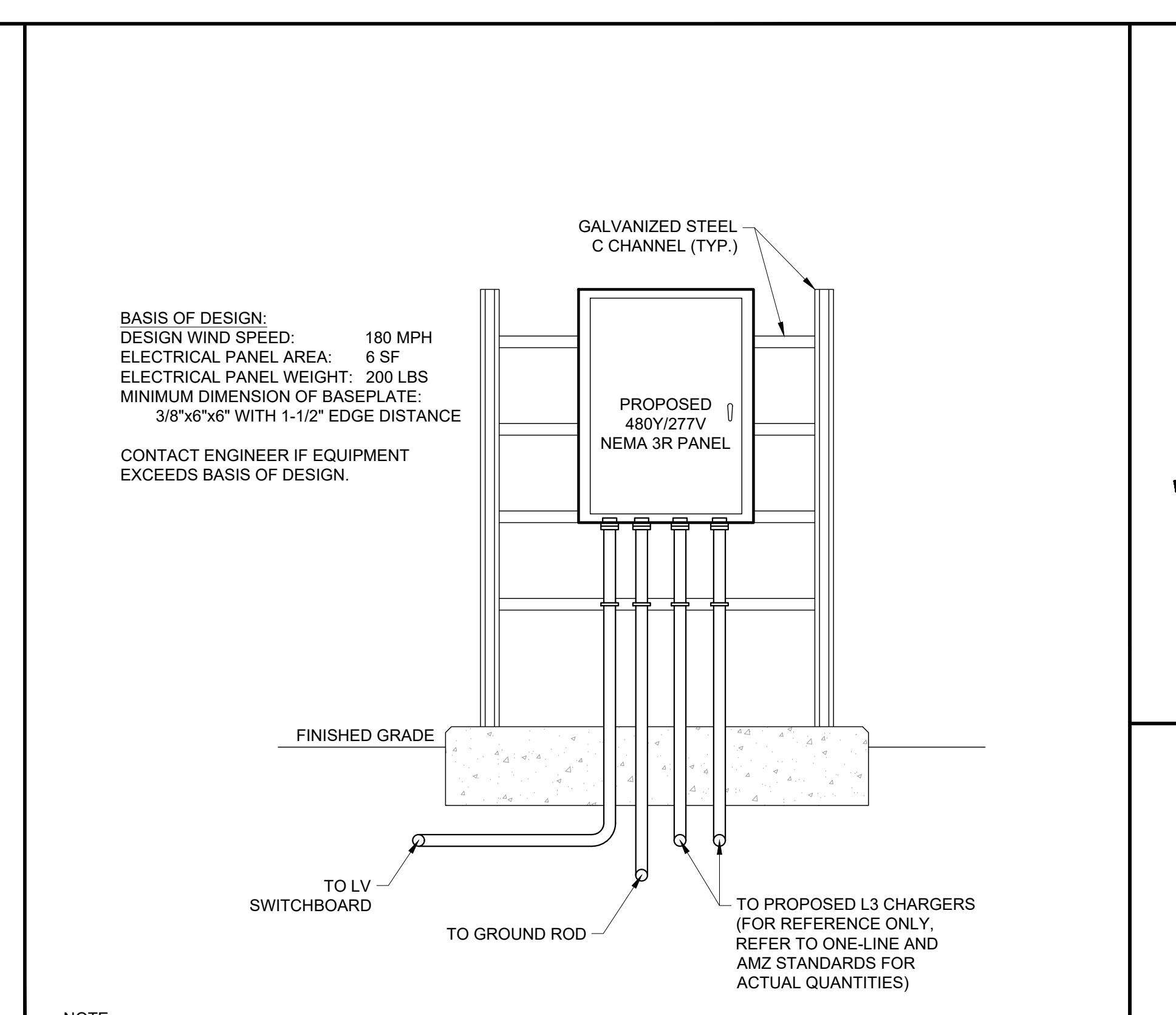


POWER TRENCH

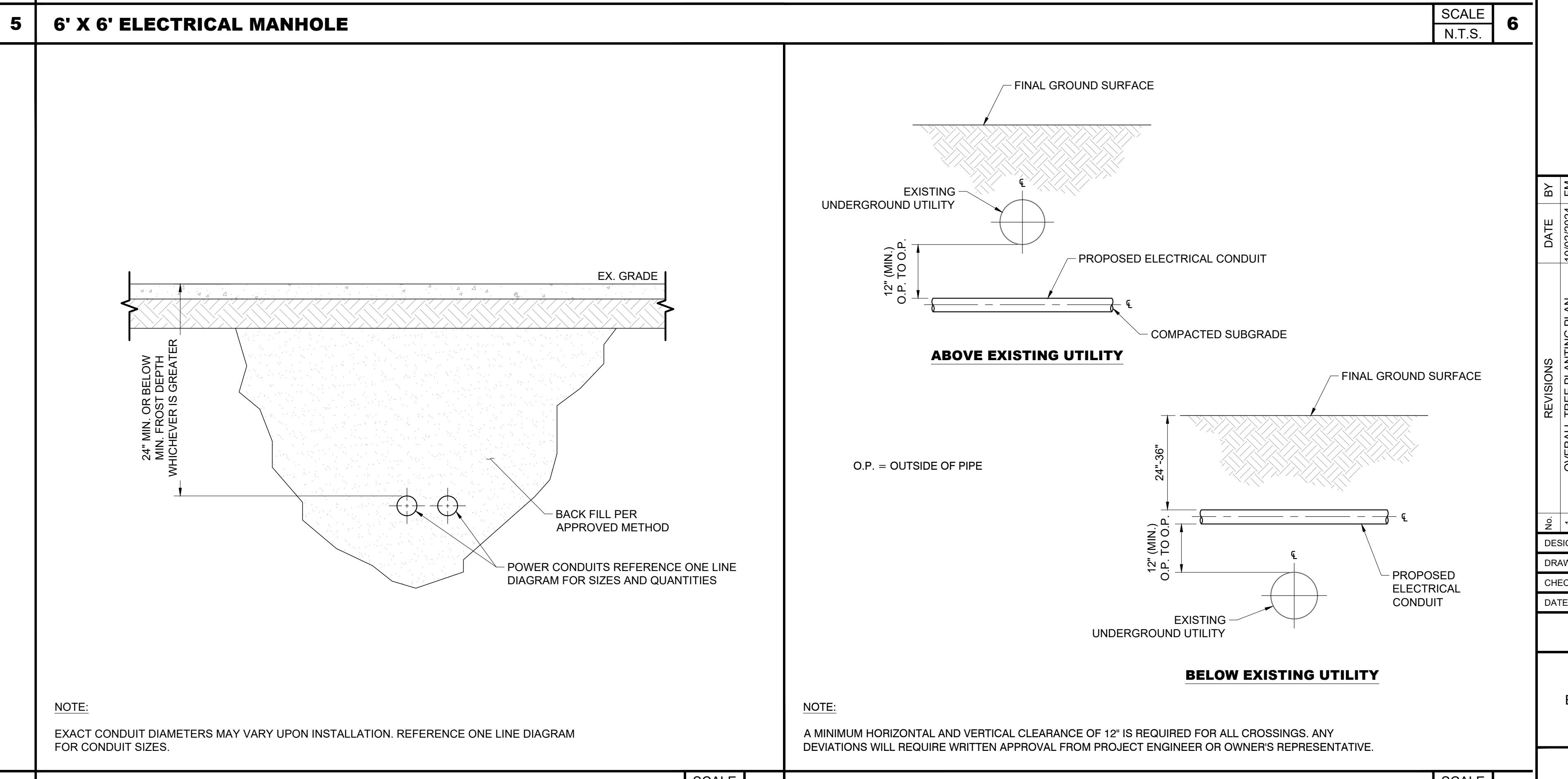
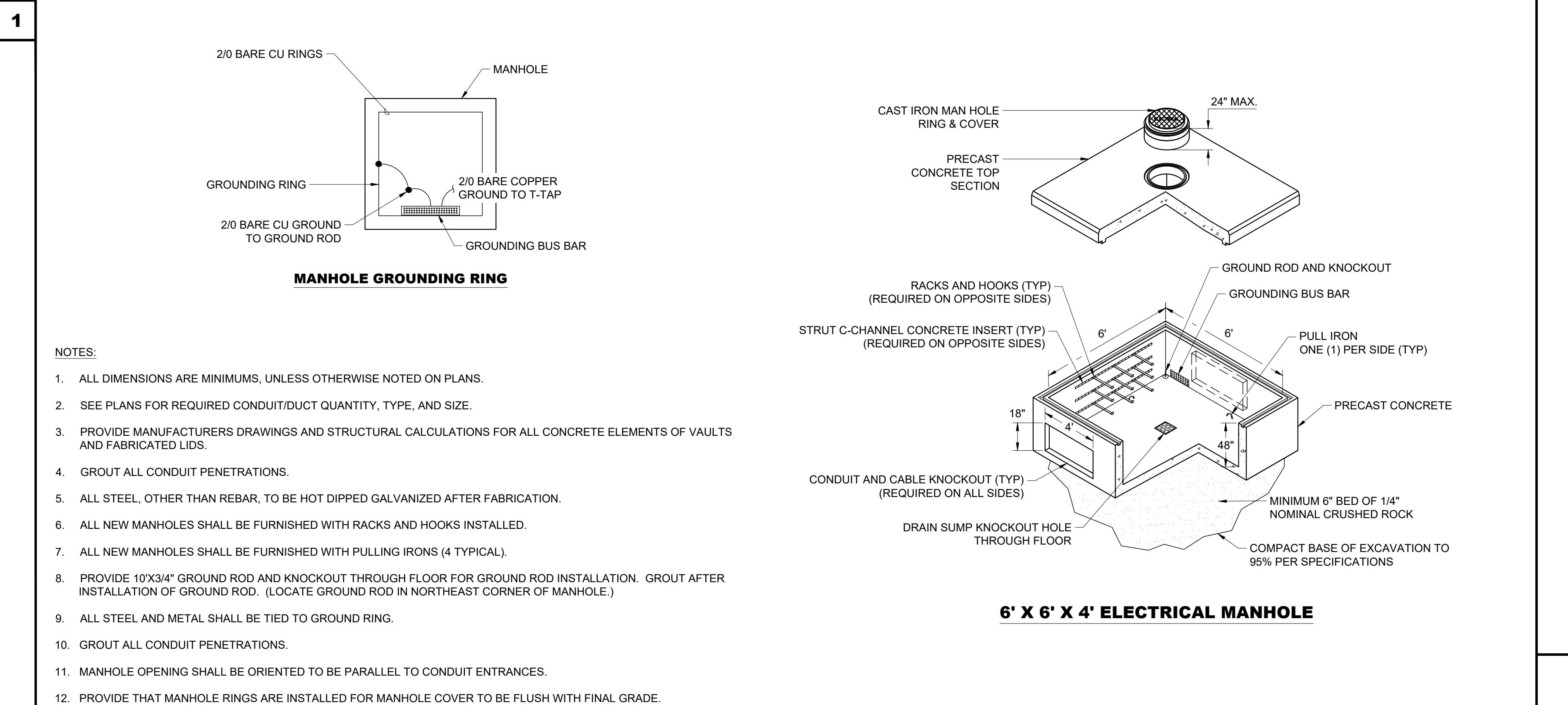
BORE PIT



L2 PANEL H-FRAME



L3 PANEL H-FRAME



BORE SECTION

EXISTING UTILITY ABOVE/BELOW PROPOSED CONDUIT

E7.0

| REVISIONS | | DATE | BY |
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| 1 | 2 | 10/2/2024 | FM |
| 2 | 3 | 10/11/2024 | IG |
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12/20/2024

1. OVERALL TREE PLANTING PLAN
2. CLIENT DIRECTED CHANGES
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Concrete Encased Conduit

Electrical Warning Tape - 12" Below Grade

2-4" SCH 40 PVC Electric Conduit

Conduit spacers must have at least 3" from bottom of conduit to bottom of concrete

Ordinary Fill

3' Minimum to Top of Conduit

Concrete Encasement

Conduit Spacers to be used when concrete encased

Concrete encasement must be at minimum 2' tall by 3' wide

Conduit in Compacted Sand

Electrical Warning Tape - 12" Below Grade

2-4" SCH 40 PVC Electric Conduit

Conduit must have at least 3" from bottom of conduit to bottom of compacted sand

Ordinary Fill

3' Minimum to Top of Conduit

Compacted Sand

Conduit bank must be at least 12" off of embankment

Compacted sand must be at minimum 2' tall by 3' wide

The diagram illustrates two methods for burying electrical conduits:

Concrete Encased Conduit: A vertical cross-section shows a 2-5" SCH 40 PVC electric conduit containing two electrical fittings. The conduit is embedded in a 3' wide by 2' tall concrete enclosure. Above the concrete, there is a 3' minimum height of ordinary fill. A layer of ordinary fill is also present above the concrete enclosure. Electrical warning tape is applied 12" below grade around the conduit. Conduit spacers are used to maintain a 3" minimum distance from the bottom of the conduit to the bottom of the concrete.

Conduit in Compacted Sand: A vertical cross-section shows a 2-5" SCH 40 PVC electric conduit containing two electrical fittings. The conduit is embedded in a 3' wide by 2' tall bank of compacted sand. Above the sand, there is a 3' minimum height of ordinary fill. A layer of ordinary fill is also present above the sand. Electrical warning tape is applied 12" below grade around the conduit. Conduit spacers are used to maintain a 3" minimum distance from the bottom of the conduit to the bottom of the compacted sand. The conduit bank must be at least 12" off of an embankment.

LITTLETON ELECTRIC LIGHT DEPARTMENT
TRANSFORMER PAD - THREE PHASE PRECAST CONCRETE

Ground Grid: Install #2 7 strand bare copper wire loop 12" below grade. Bond to 2 ground rods and leave 16' tail of ground wire from ground rods.

Cadwell connection or two approved connectors per joint.
 Install 2 - 8' galvanized steel or copper coated 5/8" ground rods.

Leave grid exposed until inspected by LELD.

Note A

Refer to "Appendix F" for meter metering specifications when CT's are mounted in secondary cabinet of transformer.

SHEA
CONCRETE PRODUCTS
New England's Premier Precaster
800-696-7432 (SHEA)
www.sheaconcrete.com
MAILING ADDRESS: 87 HAVERHILL RD AMESBURY, MA 01913

LITTLETON ELECTRIC LIGHT DEPARTMENT
2585 TRANSFORMER VAULT
84" X 96" X 36" OD

PLAN

SECTION A-A

NOTES:

1. CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.
2. DESIGN LOADING: AASHTO HS20-44, 0 TO 5 FEET COVER.
3. DESIGN SPECIFICATIONS - ACI 318 & AASHTO LOAD FACTOR DESIGN METHOD.
4. STEEL REINFORCEMENT CONFORMS TO ASTM A615, GRADE 60. MINIMUM COVER 1".

| | | | | | |
|------------------|------------|------------|-----------------|-------|-----------|
| SHEA PRODUCT ID: | LELD2585TV | FILE NAME: | LELD 2585 VAULT | | |
| WEIGHT (LBS): | 8900 | DRAWN BY: | L.P. | DATE: | 7/23/2020 |
| 1 OF 1 | | | | | |

773 Salem Street -Wilmington, MA | 153 Cranberry Hwy -Rochester, MA | 87 Haverhill Road -Amesbury, MA | 160 Old Turnpike Rd -Nottingham, NH

NPCA
CERTIFIED PLANT

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SUPPORT - 6"x6" PT TIMBER

MINIMUM #6 AWG BARE COPPER GROUND BONDED TO METER SOCKET

METER

TOP OF SOCKET
5' MIN
6' MAX

LELD TRANSFORMER

CT's FURNISHED & MOUNTED BY LELED

RIGID STEEL CONDUIT

GRADE

20'-0" MAX

2'-0" MIN

GRADE

2' MIN

PROVIDE PVC-FEMALE THREADED ADAPTOR AT END OF CONDUIT

FLUSH TO TOP OF PAD

1 1/4" SCHEDULE 40PVC CONDUIT UNLESS OTHERWISE SPECIFIED BY LELED ENGINEERING. SWEEP AND RISER TO METER SOCKET TO BE RIGID STEEL.

5/8"x8' GROUND ROD WITH MINIMUM #6 AWG BARE COPPER GROUND. REFER TO "APPENDIX I" FOR SPECS ON GROUNDING CONNECTORS

Notes:

1. Refer to Appendix D & E details for location of conduit within pad
2. Meter socket location to be approved by L ELD engineering

LITTLETON ELECTRIC LIGHT DEPARTMENT
THREE PHASE JUNCTION CABINET

The image contains two technical diagrams. The left diagram, titled 'FRONT OF CABINET', shows a 'Ground Loop' with dimensions: 68-1/4" wide, 55" high, and 43-1/4" deep. It includes a '2-5" PVC CONDUIT (Sch 40) 45 Degree Bend' and a '8' GROUND ROD'. The right diagram shows a cross-section of a foundation with dimensions: 55" wide, 26" deep, and 8" high. It includes a '12" Ground Loop' at the bottom, a 'Final Grade' line, and a '2-5" PVC CONDUIT 45 Degree Bend' leading into the foundation. A note at the bottom right states: 'MINIMUM OF 6" OF CRUSHED ROCK BENEATH PAD'.

Ground Grid: Install #2 7 strand bare copper wire loop 12" below grade. Bond to 2 ground rods and leave 12' tail of ground wire from ground rods.

Cadwell connection or two approved connectors per joint.
 Install 2 - 8' galvanized steel or copper coated 5/8" ground rods.

****DO NOT DRILL ANY HOLES INTO PAD****

Leave grid exposed until inspected by LELD.

The figure consists of four parts: a front view with dimensions 55.00, 51.00, 51.00, 51.00, 51.00, 51.00, 51.00, and 51.00; a side view with dimensions 24.00, 40.00, and 51.00; a 3D isometric view of the unit; and a detailed view of the top edge with dimensions 56.00, 51.00, 51.00, and 51.00.

DIM +/- $\frac{1}{8}$ "

FSC5553DGJ

L BEECHER 08/03/2006 9605-3320

HIGHLINE
PRODUCTS

DESIGNED AND PROVIDED BY OTHERS

| | | | | | | | | | | |
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| DRAWN BY: | N | | | | | | | | | |
| CHECKED BY: | N | | | | | | | | | |
| DATE: | 12/20/2007 | | | | | | | | | |
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| G2.0 | 017419 | CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL |
| G2.0 | 024119 | SELECTIVE DEMOLITION |
| CONCRETE SPECIFICATIONS | | |
| G3.0 | 031000 | CONCRETE FORMING AND ACCESSORIES |
| G3.0 | 032000 | CONCRETE REINFORCING |
| G3.0-3.1 | 033000 | CAST-IN-PLACE CONCRETE |
| ELECTRICAL SPECIFICATIONS | | |
| G4.0 | 260513 | MEDIUM-VOLTAGE CABLES |
| G4.0 | 260519 | LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES |
| G4.0 | 260526 | GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS |
| G4.0 | 260529 | HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS |
| G4.0-4.1 | 260533 | RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS |
| G4.1 | 260548.16 | SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS |
| G4.1 | 260553 | IDENTIFICATION FOR ELECTRICAL SYSTEMS |
| G4.1 | 261231 | LIQUID-FILLED, MEDIUM VOLTAGE TRANSFORMERS |
| G4.1-4.2 | 261323 | MEDIUM-VOLTAGE SWITCHGEAR |
| G4.2 | 262413 | SWITCHBOARDS |
| G4.2 | 262416 | PANEL BOARDS |
| G4.2 | 262743 | ELECTRIC-VEHICLE SERVICE EQUIPMENT |
| G4.2 | 262816 | ENCLOSED SWITCHES AND CIRCUIT BREAKERS |
| EARTHWORK SPECIFICATIONS | | |
| G5.0 | 312000 | EARTH MOVING |
| G5.0 | 312500 | SOIL EROSION AND SEDIMENTATION CONTROL |
| G5.0 | 315000 | EXCAVATION SUPPORT AND PROTECTION |
| G5.0 | 321216 | ASPHALT PAVING |
| G5.0-5.1 | 321313 | CONCRETE PAVEMENT |
| G5.1 | 329113 | SOIL PREPARATION |
| G5.1 | 329200 | TURF AND GRASSES |
| G5.1-5.2 | 329300 | PLANTS |

| SUBMITTAL REGISTER | | |
|--------------------|--|------|
| SUBMITTAL | NAME | TYPE |
| 015000-01 | SITE UTILIZATION PLAN | I |
| 017419-01 | WASTE MANAGEMENT PLAN | I |
| 024119-01 | PROPOSED DEMOLITION PROTECTION MEASURES | I |
| 024119-02 | DEMOLITION SCHEDULE | I |
| 024119-03 | PRE-DEMOLITION DOCUMENTATION | I |
| 031000-01 | CONCRETE FORM PRODUCT DATA AND SHOP DRAWINGS | A |
| 031000-02 | CONCRETE FORM FIELD QUALITY-CONTROL REPORTS | I |
| 032000-01 | CONCRETE REINFORCEMENT PRODUCT DATA AND SHOP DRAWINGS | A |
| 032000-02 | CONCRETE REINFORCEMENT MATERIAL CERTIFICATES AND TEST REPORTS | I |
| 032000-03 | CONCRETE REINFORCEMENT FIELD QUALITY CONTROL REPORTS | I |
| 032000-04 | CONCRETE PRODUCT DATA, DESIGN MIXTURES, SCHEDULES, AND SHOP DRAWINGS | A |
| 033000-02 | CONCRETE FIELD QUALITY CONTROL REPORTS | I |
| 260513-01 | MEDIUM-VOLTAGE CABLE AND ACCESSORIES PRODUCT DATA | A |
| 260519-01 | LOW-VOLTAGE CONDUCTORS AND CABLE AND ACCESSORIES PRODUCT DATA | A |
| 260526-01 | GROUNDING AND BONDING PRODUCT DATA | A |
| 260526-02 | GROUNDING AND BONDING OPERATION AND MAINTENANCE DATA | C |
| 260529-01 | HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS PRODUCT DATA AND SHOP DRAWINGS | A |
| 260533-01 | RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS PRODUCT DATA | A |
| 260548.16-01 | SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS PRODUCT DATA | A |
| 260553-01 | IDENTIFICATION FOR ELECTRICAL SYSTEMS PRODUCT DATA | A |
| 260553-02 | IDENTIFICATION FOR ELECTRICAL SYSTEMS SAMPLES | I |
| 262816-01 | ENCLOSED SWITCHES AND CIRCUIT BREAKERS PRODUCT DATA | A |
| 312000-01 | EARTH MOVING MATERIAL TEST REPORTS | I |
| 315000-02 | UNDERGROUND UTILITY RECON DRAWINGS | C |
| 321216-01 | ASPHALT HOT-MIX DESIGN | A |
| 321313-01 | CONCRETE PAVEMENT DESIGN MIXTURES | A |
| 329113-01 | SOIL PREPARATION PRODUCT DATA | A |
| 329113-02 | SOIL PREPARATION FIELD QUALITY-CONTROL REPORTS | I |
| 329200-01 | TURF AND GRASSES PRODUCT CERTIFICATES AND CERTIFICATIONS | I |
| 329300-01 | PLANT PRODUCT DATA, CERTIFICATES, AND WARRANTIES | I |
| 329300-02 | PLANT MULCH SAMPLES | I |
| NOTES: | | |

1. SUBMITTAL SCHEDULE PROVIDES A BASIS OF SUBMITTALS BASED ON PROJECT SPECIFICATIONS. SEE INDIVIDUAL SPECIFICATION SECTION FOR REQUIREMENTS OF EACH SUBMITTAL. ADDITIONAL SUBMITTALS MAY BE REQUIRED FOR SPECIFIC PRODUCTS.
2. SUBMITTAL SCHEDULE PROVIDES A TEMPLATE FOR SUBMITTALS. CONTRACTOR MAY COMBINE SUBMITTALS FOR A SPECIFIC SECTION OR COMBINE SUBMITTALS FOR MULTIPLE SIMILAR SECTIONS INTO A SINGLE SUBMITTAL. SUBMITTAL SHALL IDENTIFY COMBINED SUBMITTALS ON THE BASIS OF THIS SUBMITTAL NUMBERING SCHEME.
3. SUBMITTAL TYPES:
 - A - ACTION SUBMITTAL - REQUIRED FOR REVIEW BY ENGINEER
 - I - INFORMATIONAL SUBMITTAL - REQUIRED FOR PROJECT RECORD
 - C - CLOSEOUT SUBMITTAL - REQUIRED FOR PROJECT CLOSEOUT

| MASTER SPECS | | |
|---|--|--|
| SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS | | |
| PART 1 - GENERAL | | |
| 1.1 SUMMARY | | |
| A. SECTION INCLUDES REQUIREMENTS FOR TEMPORARY UTILITIES, SUPPORT FACILITIES, AND SECURITY AND PROTECTION FACILITIES. | | |
| 1.2 USE CHARGES | | |
| A. INSTALLATION, REMOVAL, AND USE CHARGES FOR TEMPORARY FACILITIES SHALL BE INCLUDED IN THE CONTRACT SUM UNLESS OTHERWISE INDICATED. ALLOW OTHER ENTITIES ENGAGED IN THE PROJECT TO USE TEMPORARY SERVICES AND FACILITIES WITHOUT COST, INCLUDING, BUT NOT LIMITED TO TESTING AGENCIES AND AUTHORITIES HAVING JURISDICTION. | | |
| B. ELECTRIC POWER SERVICE FROM EXISTING SYSTEM: ELECTRIC POWER FROM OWNER'S EXISTING SYSTEM IS AVAILABLE FOR USE WITHOUT CHARGE. PROVIDE CONNECTIONS AND EXTENSIONS OF SERVICES AS REQUIRED FOR CONSTRUCTION OPERATIONS. | | |
| 1.3. SUBMITTALS | | |
| A. SITE UTILIZATION PLAN: SHOW TEMPORARY FACILITIES, TEMPORARY UTILITY LINES AND CONNECTIONS, STAGING AREAS, CONSTRUCTION SITE ENTRANCES, VEHICLE CIRCULATION, AND PARKING AREAS FOR CONSTRUCTION PERSONNEL. | | |
| PART 2 - PRODUCTS | | |
| 2.1 TEMPORARY FACILITIES | | |
| A. FIELD OFFICES: PREFABRICATED OR MOBILE UNITS WITH SERVICEABLE FINISHES, TEMPERATURE CONTROLS, AND FOUNDATIONS ADEQUATE FOR NORMAL LOADING. | | |
| PART 3 - EXECUTION | | |
| 3.1. TEMPORARY FACILITIES, GENERAL | | |
| A. CONSERVATION: COORDINATE CONSTRUCTION AND USE OF TEMPORARY FACILITIES WITH CONSIDERATION GIVEN TO CONSERVATION OF ENERGY, WATER, AND MATERIALS. COORDINATE USE OF TEMPORARY UTILITIES TO MINIMIZE WASTE. | | |
| 3.2. INSTALLATION, GENERAL | | |
| A. LOCATE FACILITIES WHERE THEY WILL SERVE PROJECT ADEQUATELY AND RESULT IN MINIMUM INTERFERENCE WITH PERFORMANCE OF THE WORK. B. NOTIFY ENGINEER OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH SELECTIVE DEMOLITION. | | |
| 3.3. TEMPORARY UTILITY INSTALLATION | | |
| A. SANITARY FACILITIES: PROVIDE TEMPORARY TOILETS, WASH FACILITIES, AND DRINKING WATER FOR USE OF CONSTRUCTION PERSONNEL. COMPLY WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION FOR TYPE, NUMBER, LOCATION, OPERATION, AND MAINTENANCE OF FIXTURES AND FACILITIES. | | |
| B. ELECTRIC POWER SERVICE: PROVIDE ELECTRIC POWER SERVICE AND DISTRIBUTION SYSTEM OF SUFFICIENT SIZE, CAPACITY, AND POWER FOR CONSTRUCTION OPERATIONS. | | |
| C. LIGHTING: PROVIDE TEMPORARY LIGHTING WITH LOCAL SWITCHING THAT PROVIDES ADEQUATE ILLUMINATION FOR CONSTRUCTION OPERATIONS. OBSERVATIONS, INSPECTIONS, AND TRAFFIC CONDITIONS. | | |
| 3.4. SUPPORT FACILITIES INSTALLATION | | |
| A. WASTE DISPOSAL FACILITIES: PROVIDE WASTE-COLLECTION CONTAINERS IN SIZES ADEQUATE TO HANDLE WASTE FROM CONSTRUCTION OPERATIONS. COMPLY WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. COMPLY WITH PROGRESS CLEANING REQUIREMENTS IN SECTION 017300 "EXECUTION." | | |
| B. LIFTS AND HOISTS: PROVIDE FACILITIES NECESSARY FOR HOISTING MATERIALS AND PERSONNEL. | | |
| 3.5. SECURITY AND PROTECTION FACILITIES INSTALLATION | | |
| A. PROTECTION OF EXISTING FACILITIES: PROTECT EXISTING VEGETATION, EQUIPMENT, STRUCTURES, UTILITIES, AND OTHER IMPROVEMENTS AT THE SITE AND ON ADJACENT PROPERTIES, EXCEPT THOSE INDICATED TO BE REMOVED OR ALTERED. REPAIR DAMAGE TO EXISTING FACILITIES. | | |
| 1. WHERE ACCESS TO ADJACENT PROPERTIES IS REQUIRED IN ORDER TO AFFECT PROTECTION OF EXISTING FACILITIES, OBTAIN WRITTEN PERMISSION FROM ADJACENT PROPERTY OWNER TO ACCESS PROPERTY FOR THAT PURPOSE. | | |
| B. ENVIRONMENTAL PROTECTION: PROVIDE PROTECTION, OPERATE TEMPORARY FACILITIES, AND CONDUCT CONSTRUCTION AS REQUIRED TO COMPLY WITH ENVIRONMENTAL REGULATIONS AND THAT MINIMIZE POSSIBLE AIR, WATERWAY, AND SUBSOIL CONTAMINATION OR POLLUTION OF OTHER INSENSITIVE ENVIRONMENTS. | | |
| C. TEMPORARY EROSION AND SEDIMENTATION CONTROL: PROVIDE MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF AND AIRBORNE DUST TO UNDISTURBED AREAS AND TO ADJACENT PROPERTIES AND WALKWAYS. ACCORDING TO REQUIREMENTS OF EPA CONSTRUCTION GENERAL PERMIT OR AUTHORITIES HAVING JURISDICTION, WHICHEVER IS MORE STRINGENT. | | |
| 1. VERIFY THAT FLOW IS REDIRECTED FROM CONSTRUCTION AREAS OR GENERATED BY CONSTRUCTION ACTIVITY DO NOT ENTER OR DAMAGE CONSTRUCTION AREAS OR PROTECTION ZONE. | | |
| 2. INSPECT, REPAIR, AND MAINTAIN EROSION- AND SEDIMENTATION-CONTROL MEASURES DURING CONSTRUCTION UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. | | |
| 3. CLEAN, REPAIR, AND RESTORE ADJOINING PROPERTIES AND ROADS AFFECTED BY EROSION AND SEDIMENTATION FROM PROJECT SITE DURING THE COURSE OF PROJECT. | | |
| 4. REMOVE EROSION AND SEDIMENTATION CONTROLS AND RESTORE AND STABILIZE AREAS DISTURBED DURING REMOVAL. | | |
| D. STORMWATER CONTROL: COMPLY WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. PROVIDE BARRIERS IN AND AROUND EXCAVATIONS AND SUBGRADE CONSTRUCTION TO PREVENT FLOODING BY RUNOFF OF STORMWATER FROM HEAVY RAINS. | | |
| E. TREE AND PLANT PROTECTION: INSTALL TEMPORARY FENCING LOCATED AS INDICATED OUTSIDE THE DRIP LINE OF TREES TO PROTECT VEGETATION FROM DAMAGE FROM CONSTRUCTION OPERATIONS. PROTECT TREE ROOT SYSTEMS FROM DAMAGE, FLOODING, AND EROSION. | | |
| 3.6. OPERATIONS, MAINTENANCE, AND REPAIR | | |
| A. PERMIT, REPAIR, AND REMOVE EACH TEMPORARY FACILITY WHEN NEED FOR ITS SERVICE HAS ENDED. WHEN IT HAS BEEN REPAIRED BY AUTHORIZED USE OF A PERMANENT FACILITY, OR NO LATER THAN SUBSTANTIAL COMPLETION, COMPLETE OR, IF NECESSARY, RESTORE PERMANENT CONSTRUCTION THAT MAY HAVE BEEN DELAYED BECAUSE OF INTERFERENCE WITH TEMPORARY FACILITY. REPAIR DAMAGED WORK, CLEAN EXPOSED SURFACES, AND REPAIR CONSTRUCTION THAT CANNOT BE SATISFACTORILY REPAIRED. | | |
| 3.7. CLEANING | | |
| A. REMOVE DEMOLITION WASTE MATERIALS FROM PROJECT SITE AND RECYCLE OR DISPOSE OF THEM ACCORDING TO SECTION 017419 "CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL." | | |
| 1. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE. | | |
| 2. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS. | | |
| B. BURNING: DO NOT BURN DEMOLISHED MATERIALS. | | |
| END OF SECTION 015000 | | |
| SECTION 017419 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL | | |
| PART 1 - GENERAL | | |
| 1.1 SUMMARY | | |
| A. SECTION INCLUDES ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS FOR THE FOLLOWING: | | |
| 1. SALVAGING NONHAZARDOUS [DEMOLITION] [AND] [CONSTRUCTION] WASTE. | | |
| 2. RECYCLING NONHAZARDOUS [DEMOLITION] [AND] [CONSTRUCTION] WASTE. | | |
| 3. DISPOSING OF NONHAZARDOUS [DEMOLITION] [AND] [CONSTRUCTION] WASTE. | | |
| 1.2 DEFINITIONS | | |
| A. CONSTRUCTION WASTE: BUILDING, STRUCTURE, AND SITE IMPROVEMENT MATERIALS AND OTHER SOLID WASTE RESULTING FROM CONSTRUCTION, REMODELING, RENOVATION, OR REPAIR OPERATIONS. CONSTRUCTION WASTE INCLUDES PACKAGING. | | |
| B. DEMOLITION WASTE: BUILDING, STRUCTURE, AND SITE IMPROVEMENT MATERIALS RESULTING FROM DEMOLITION OPERATIONS. | | |
| C. DISPOSAL: REMOVAL OF DEMOLITION CONSTRUCTION WASTE AND SUBSEQUENT SALVAGE, SALE, RECYCLING, OR DEPOSIT IN LANDFILL, INCINERATOR ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, OR DESIGNATED SPOIL AREAS ON OWNER'S PROPERTY. | | |
| D. RECYCLE: RECOVERY OF DEMOLITION OR CONSTRUCTION WASTE FOR SUBSEQUENT PROCESSING IN PREPARATION FOR REUSE. | | |
| E. SALVAGE: RECOVERY OF DEMOLITION OR CONSTRUCTION WASTE AND SUBSEQUENT SALE OR REUSE IN ANOTHER FACILITY. | | |
| F. SALVAGE AND REUSE: RECOVERY OF DEMOLITION OR CONSTRUCTION WASTE AND SUBSEQUENT INCORPORATION INTO THE WORK. | | |
| 3.1. SUBMITTALS | | |
| A. WASTE MANAGEMENT PLAN: SUBMIT PLAN WITHIN 30 DAYS OF DATE ESTABLISHED FOR COMMENCEMENT OF THE WORK. | | |
| 14. WASTE MANAGEMENT PLAN | | |
| A. GENERAL: DEVELOP A WASTE MANAGEMENT PLAN ACCORDING TO REQUIREMENTS IN THIS SECTION. PLAN SHALL CONSIST OF WASTE IDENTIFICATION, WASTE REDUCTION WORK PLAN, AND COST/REVENUE ANALYSIS. DISTINGUISH | | |



| LEGEND | |
|--------|-----------------------------------|
| | PROPOSED UNDERGROUND CONDUIT LINE |
| | EASEMENT BOUNDARY LINE |
| | 50' WETLAND BUFFER |
| | 100' WETLAND BUFFER |
| | NHESP BOUNDARY LINE |
| | WETLAND RESOURCE AREA |

| TREE REMOVAL LEGEND | |
|---------------------|-----------------------|
| | 8" PINUS STROBOS |
| | 10"-12" QUERCUS RUBRA |
| | 18" DIA QUERCUS RUBRA |

| NOTES | |
|---|-----------------|
| • TREE CLEARING WITHIN THE 50' WETLAND BUFFER IS 0 SF | |
| • TREE CLEARING WITHIN THE 100' WETLAND BUFFER IS 2,372 SF | |
| • 6 TOTAL TREES OVER 6" DBH TO BE REMOVED, TOTALING 90" DBH TO BE REMOVED (SEE CALLOUTS ON PLAN) | |
| • TREES WILL BE REPLANTED ON THE WESTERN PART OF THE SITE AS SHOWN (SEE ENLARGEMENT PLAN ON THE NEXT SHEET) | |
| • THERE WILL BE A TOTAL OF 60 REPLACEMENT TREES PLANTED, RESULTING IN A TOTAL OF 90" DBH TO BE REPLANTED | |
| • EACH TREE WILL BE 1.5" CAL DBH AT PLANTING (60 REPLACEMENT TREES x 1.5" DBH PER TREE = 90" DBH REPLACEMENT) | |
| • THE PROPOSED TREES WILL INCLUDE: | |
| • ACER SACCHARUM | SUGAR MAPLE |
| • LIQUIDAMBAR STYRACIFLUA | SWEET GUM |
| • NYSSA SYLVATICA | SOUR GUM |
| • QUERCUS PALUSTRIS | PIN OAK |
| • TILIA AMERICANA | AMERICAN LINDEN |

SEE PLANT SCHEDULE ON NEXT SHEET FOR INFORMATION AND PLACEMENT
MINIMUM TREE SPACING SHALL BE 12' O.C.

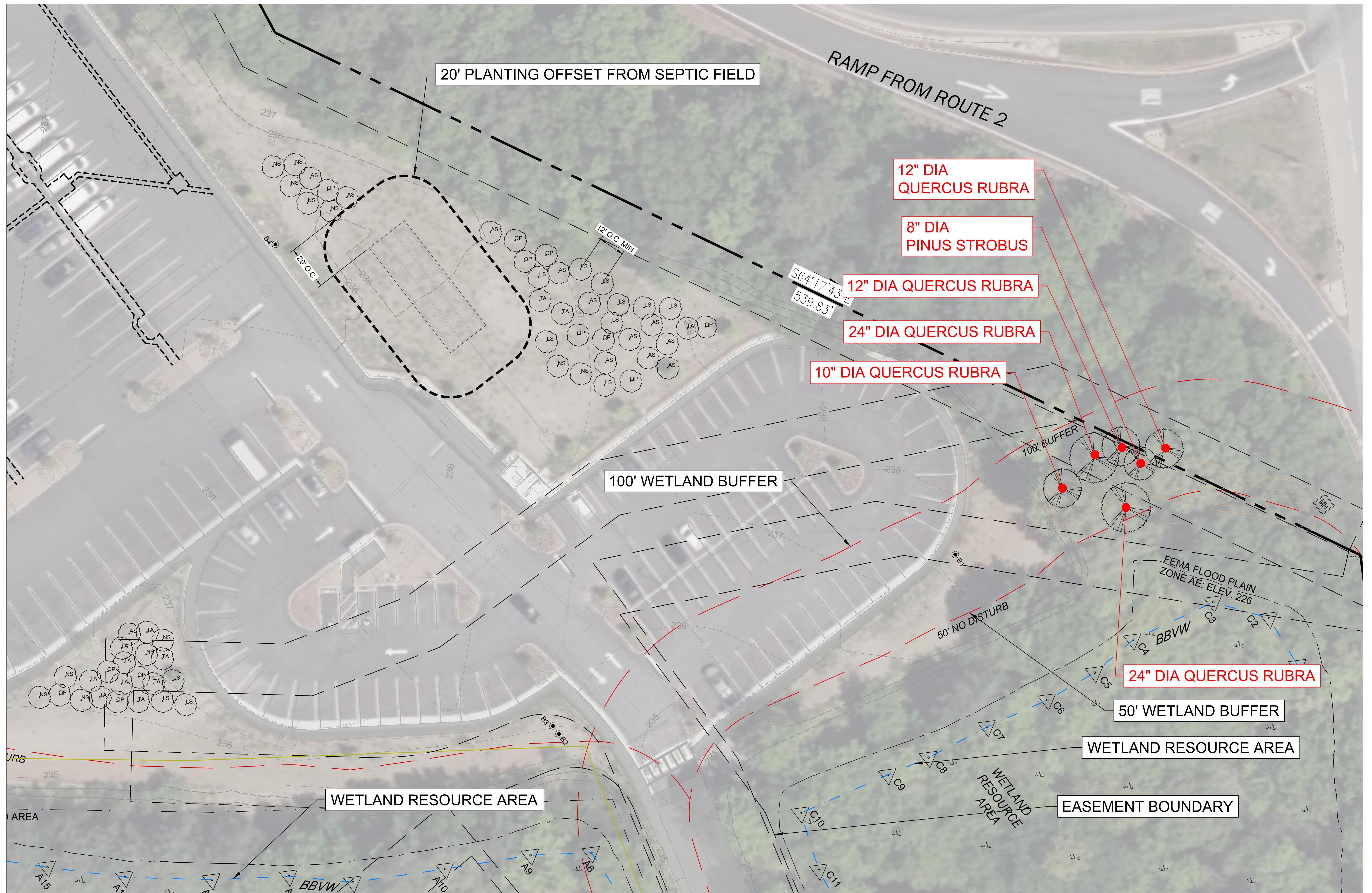
DK01 EV EV INFRASTRUCTURE PLAN

151 TAYLOR STREET
LITTLETON, MA 01460

| REVISIONS | | DATE | BY |
|-----------|----------------------------|------------|----|
| 1 | OVERALL TREE PLANTING PLAN | 10/02/2024 | FM |
| 2 | CLIENT DIRECTED CHANGES | 10/11/2024 | IG |
| 3 | CLIENT DIRECTED CHANGES | 12/20/2024 | KN |
| 4 | CLIENT DIRECTED CHANGES | 12/20/2024 | JK |

| No. | DESIGNED BY: | DRAWN BY: | CHECKED BY: | DATE: |
|-----|--------------|-----------|-------------|------------|
| 1 | I.KC | J.WG | AA | 12/20/2024 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

KIMLEY-HORN PROJECT NO. 115319667
SHEET NUMBER L1.0
OVERALL LANDSCAPE PLAN
GRAPHIC SCALE IN FEET 0 30 60 120
NORTH



ENLARGED LANDSCAPE PLAN

L1.1

REVISIONS

| | | | |
|-----|----------------------------|------------|-----|
| No. | OVERALL TREE PLANTING PLAN | DATE | BY |
| 1 | CLIENT-DIRECTED CHANGES | 10/20/2024 | JKC |
| 2 | CLIENT-DIRECTED CHANGES | 10/11/2024 | JKC |
| 3 | CLIENT-DIRECTED CHANGES | 12/20/2024 | JKC |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |

DESIGNED BY: JKC

DRAWN BY: JWG

CHECKED BY: AA

DATE: 12/20/2024

KIMLEY-HORN PROJECT NO. 115319687

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