



**TOWN OF NEWBURGH
PLANNING BOARD
TECHNICAL REVIEW COMMENTS**

PROJECT NAME: PILOT TRAVEL CENTER-EV CHARGING
PROJECT NO.: 24-20
PROJECT LOCATION: SECTION 89, BLOCK 1, LOT 38.22
REVIEW DATE: 12 JULY 2024
MEETING DATE: 18 JULY 2024
PROJECT REPRESENTATIVE: COLLIERS ENGINEERING & DESIGN

1. A Bulk Table should be provided for the site and the addition of the canopy.
2. It appears that a variance would be required for Section 185-18C(4)(b), “front yards abutting all County and State highways shall be at least 60 feet in depth, except where majority of existing buildings on either side of the road within 300 feet from the intersection to the nearest property line and street line are a lesser average depth. In such case the front yard depth shall be 50 feet or an average of all lot widths within 300 feet, whichever is greater”.
3. Parking spaces should be typical Town of Newburgh double striped spaces. Detail provided.
4. The curbed island and shrubs proposed to be removed should be evaluated with regard to compliance with required landscaping areas within parking lots.
5. The proposed canopy and signage would be subject to Town of Newburgh Architectural Review Standards.
6. The dry laid stone wall located in front of the site stops short of the proposed equipment pads. Landscaping is proposed. The Planning Board should evaluate whether the stone wall should be extended or the proposed landscaping is acceptable.
7. An evaluation regarding the loss of the two parking spaces should be provided identifying if adequate passenger vehicle parking exists based on the existing use of the site.
8. Orange County Planning referral for Amended Site Plan on State highway is required.

Respectfully submitted,

MHE Engineering, D.P.C.

A handwritten signature in blue ink that reads 'Patrick J. Hines'.

Patrick J. Hines
Principal
PJH/kbw

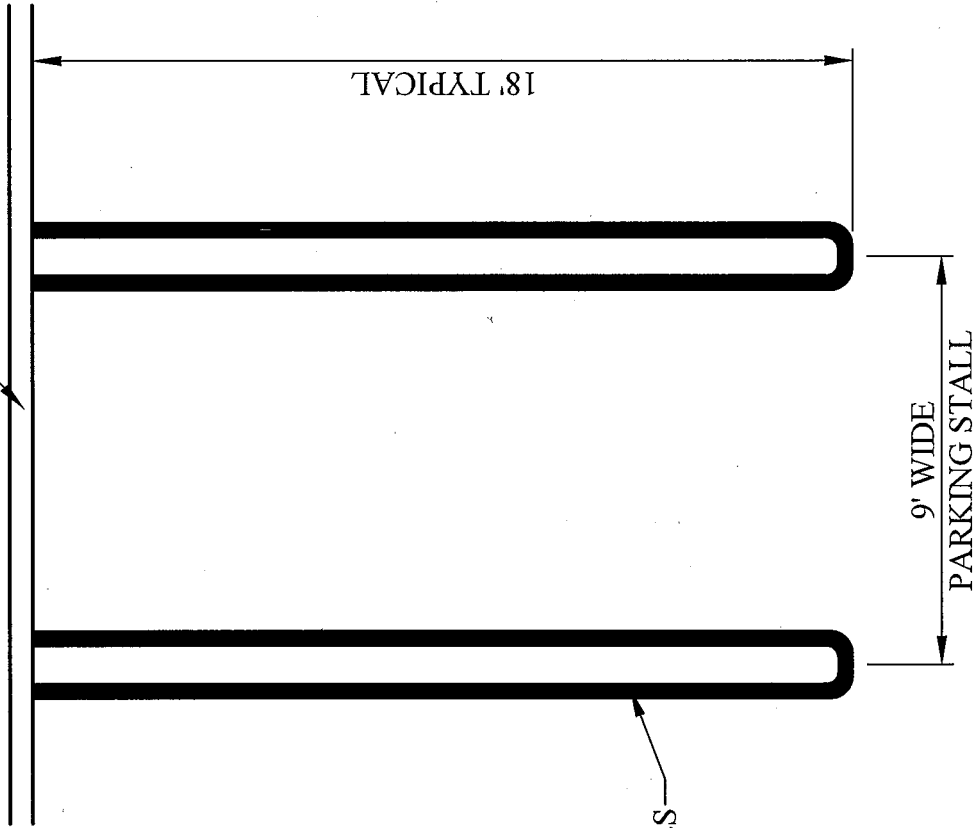
NEW YORK OFFICE

33 Airport Center Drive, Suite 202, New Windsor, NY 12553
845-567-3100 | F: 845-567-3232 | mheny@mhepc.com

PENNSYLVANIA OFFICE

111 Wheatfield Drive, Suite 1, Milford, PA 18337
570-296-2765 | F: 570-296-2767 | mhepa@mhepc.com

CONCRETE CURB



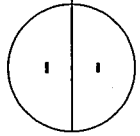
18' TYPICAL

9' WIDE
PARKING STALL

4" WHITE LINES
14" O.C. (TYP.)

TYPICAL PARKING SPACE DETAIL

SCALE: N.T.S.



TOWN OF NEWBURGH PLANNING BOARD

APPLICATION PACKAGE

for

SUBDIVISIONS,

SITE PLANS,

LOT LINE CHANGES

And

SPECIAL EXCEPTION USE PERMITS

Procedures and Requirements

July 2013

**TOWN OF NEWBURGH PLANNING BOARD
308 GARDNERTOWN ROAD
NEWBURGH, NEW YORK 12550
(845) 564-7804
fax: (845) 564-7802
planningboard@hvc.rr.com**

JULY 2013

TO WHOM IT MAY CONCERN:

This package of information and forms is provided to assist the applicant in the preparation of a submission of a site plan, subdivision, lot line change or special exception use permit to the Town of Newburgh Planning Board. In most cases the application will be prepared initially by a licensed professional engineer, architect, surveyor or land planner. Since in almost every case such professional will be required for the process, they should be retained as early as possible.

Procedurally, the applicant should contact the Planning Board to discuss the potential project and obtain the necessary forms and regulations.

The Zoning and Subdivision Regulations of the Town of Newburgh require that the applicant must present plans to the Secretary of the Planning Board. When your application is complete, it will be placed on the next **AVAILABLE** agenda. Submittals must be handed in to the Planning Board Secretary at least 10 days prior to the next meeting, but the date of the appearance at a meeting will be determined by the next available time slot, not necessarily the next meeting. You will be notified of the date, time and place of your meeting.

A minimum of **FOURTEEN (14)** sets of **FOLDED PLANS** for a major or minor subdivision or a site plan must be submitted with a **COMPLETED** application, and **FIFTEEN (15)** sets of plans must be submitted if plans need to be submitted to the Town of Newburgh Traffic Consultant. This completed application must include a **LONG FORM OR FULL EAF** for every project except lot line changes, 2 lot subdivisions under 3 acres or site plans impacting less than one acre, along with a **NARRATIVE** of the proposed project. The narrative should include the action being taken, the size of the parcel, what zone the parcel is in, the water and sewer information, any Zoning Board of Appeals relief needed, and whether the parcel is on a private or town road. Complex or unusual projects should be discussed in greater detail.

Following the first meeting before the Planning Board the applicant is required to send an Adjoiner Notice to property owners within 500 feet of the parcels in question (please see final page of the package for full instructions).

Upon initial review of a Short Form, the Planning Board may require specific additional environmental information or the preparation of a Long Form. Long Form part 1 should be completed by the applicant. The Board will review and may modify Part 2 prior to making a decision on the SEQRA aspect of the project.

All fees for consulting and professional services that the Planning Board incurs during the review of the applications will be the responsibility of the applicant. An advance deposit for these fees will be required and will be placed in an escrow account with the Town. If the escrow account falls below the 40% of the initial deposit, the applicant will be required to immediately make an additional deposit to the escrow account prior to any further review of the project application by the Planning Board.

Very truly yours,

JOHN P. EWASUTYN, Chairman
Town of Newburgh Planning Board

**TOWN OF NEWBURGH
APPLICATION FOR
SUBDIVISION/SITE PLAN REVIEW**

**RETURN TO: Town of Newburgh Planning Board
308 Gardnertown Road
Newburgh, New York 12550**

DATE RECEIVED: _____ **TOWN FILE NO:** 24-20
(Application fee returnable with this application)

1. Title of ~~Subdivision~~ Site Plan (Project name):
Pilot Travel Center - E.V. Charging Stations

2. Owner of Lands to be reviewed:
Name Pilot Travel Centers LLC
Address 5508 Lonas Drive
Knoxville, TN 37909
Phone (865) 209-6801

3. Applicant Information (If different than owner):
Name The Oscar W. Larson Company DBA OWL Services
Address 6235 Southern Blvd
Youngstown, OH 44512

Representative Kathleen Schiffhauer / ROBERT W. CISS
Phone (330) 716-2706 / (412) 877-4648
Fax
Email kathleen.schiffhauer@owlservices.com / Robert.W.CISS@OWLSERVICES.COM

4. Subdivision/Site Plan prepared by:
Name Colliers Engineering & Design (Attn. Justin E. Dates R.L.A.)
Address 555 Hudson Valley Avenue, Suite 101
New Windsor, NY 12553
Phone/Fax (845) 564-4495

5. Location of lands to be reviewed:
239 NY-17K, Newburgh, NY 12550 (Pilot Travel Center)

6. Zone B Fire District Coldenham Fire District
Acreage ± 13.5 School District Valley Central School District

7. Tax Map: Section 89 Block 1 Lot 38.22

8. Project Description and Purpose of Review:

Number of existing lots 1 Number of proposed lots 1
Lot line change N/A
Site plan review Amended Site Plans for proposed E.V. Charging Stations
Clearing and grading N/A
Other _____

PROVIDE A WRITTEN SINGLE PAGE DESCRIPTION OR NARRATIVE OF THE PROJECT

9. Easements or other restrictions on property:

(Describe generally) N/A

10. The undersigned hereby requests approval by the Planning Board of the above identified application and scheduling for an appearance on an agenda:

Signature Will Cole Title SR Project Manager

Date: 6-17-24

NOTE: If property abuts and has its access to a County or State Highway or road, the following information must be placed on the subdivision map or site plan: entrance location, entrance profile, sizing of pipe (minimum length of pipe to be 24 feet).

The applicant will also be required to submit an additional set of plans, narrative letter and EAF if referral to the Orange County Planning Department is required under General Municipal Law Section 239.

TOWN OF NEWBURGH PLANNING BOARD

Pilot Travel Center - E.V. Charging Stations
PROJECT NAME

CHECKLIST FOR MAJOR/MINOR SUBDIVISION AND/OR SITE PLAN

I. The following items shall be submitted with a COMPLETED Planning Board Application Form.

1. X Environmental Assessment Form As Required
2. X Proxy Statement
3. X Application Fees
4. X Completed Checklist (Automatic rejection of application without checklist)

II. The following checklist items shall be incorporated on the Subdivision Plat or Site Plan prior to consideration of being placed on the Planning Board Agenda. Non-submittal of the checklist will result in application rejection.

1. X Name and address of applicant
2. X Name and address of owner (if different from applicant)
3. X Subdivision or Site Plan and Location
4. X Tax Map Data (Section-Block-Lot)
5. X Location map at a scale of 1" = 2,000 ft. or less on a tax map or USCGS map base only with property outlined
6. X Zoning table showing what is required in the particular zone and what applicant is proposing. A table is to be provided for each proposed lot
7. N/A Show zoning boundary if any portion of proposed site is within or adjacent to a different zone
8. X Date of plan preparation and/or plan revisions
9. X Scale the plan is drawn to (Max 1" = 100')
10. X North Arrow pointing generally up

11. X Surveyor,s Certification
12. X Surveyor's seal and signature
13. X Name of adjoining owners
14. N/A Wetlands and 100 ft. buffer zone with an appropriate note regarding D.E.C. or A.C.O.E. requirements
15. N/A Flood plain boundaries
16. N/A Certified sewerage system design and placement by a Licensed Professional Engineer must be shown on plans in accordance with Local Law #1 1989
17. X Metes and bounds of all lots
18. X Name and width of adjacent streets; the road boundary is to be a minimum of 25 ft. from the physical center line of the street
19. N/A Show existing or proposed easements (note restrictions)
20. N/A Right-of-way width and Rights of Access and Utility Placement
21. N/A Road profile and typical section (minimum traveled surface, excluding shoulders, is to be 18 ft. wide)
22. X Lot area (in sq. ft. for each lot less than 2 acres)
23. N/A Number of lots including residual lot
24. N/A Show any existing waterways
25. N/A A note stating a road maintenance agreement is to be filed in the County Clerk's Office where applicable
26. N/A Applicable note pertaining to owners review and concurrence with plat together with owner's signature
27. X Show any improvements, i.e. drainage systems, water lines, sewer lines, etc.
28. N/A Show all existing houses, accessory structures, wells and septic systems on and within 200 ft. of the parcel to be subdivided
29. X Show topographical data with 2 or 5 ft. contours on initial submission

30. N/A Indicate any reference to a previous subdivision, i.e. filed map number, date and previous lot number
31. N/A If a private road, Town Board approval of name is required, and notes on the plan that no town services will be provided and a street sign (per town specs) is to be furnished and installed
32. N/A Number of acres to be cleared or timber harvested
33. N/A Estimated or known cubic yards of material to be excavated and removed from the site
34. N/A Estimated or known cubic yards of fill required
35. N/A The amount of grading expected or known to be required to bring the site to readiness
36. N/A Type and amount of site preparation which falls within the 100 ft. buffer strip of wetlands or within the Critical Environmental Area. Please explain in sq. ft. or cubic yards.
- _____
- _____
37. N/A Any amount of site preparation within a 100 year floodplain or any water course on the site. Please explain in sq. ft. or cubic yards.
- _____
- _____
38. _____ List of property owners within 500 feet of all parcels to be developed (see attached statement).

The plan for the proposed subdivision or site has been prepared in accordance with this checklist.

By: Justin E. Dates, R.L.A.
Licensed Professional

Date: May 23, 2024

This list is designed to be a guide ONLY. The Town of Newburgh Planning Board may require additional notes or revisions prior to granting approval.

Prepared (insert date):

STATEMENT TO APPLICANTS

N/A

RE: TOWN OF NEWBURGH CLEARING AND GRADING LAW

The Town of Newburgh Clearing and Grading Control Law requires a separate permit for most site preparation activities, including clearing, grading, tree cutting, excavating and filling. Site preparation activities performed following site plan or subdivision approval by the Planning Board may be exempt from the permit application, public hearing, fee and bonding requirements of the law provided the subdivision or site plan application has been reviewed for conformance with the clearing and grading law and the approval conditioned on compliance with the standards set forth in the law. Completion of the attached form will enable the Planning Board to review your application for conformance with the law's requirements. In the event it is not completed you may be required to apply for a separated permit for your site preparation activities. A sediment and erosion control plan and a plan showing the areas to be cleared, filled, graded or subjected to tree cutting, the types of vegetation affected and the proposed disposition of the destroyed vegetation must accompany the form. A SEQRA long form or full EAF should be utilized to discuss any environmental impacts and must accompany the application.

N/A

**TOWN OF NEWBURGH
APPLICATION FOR CLEARING AND GRADING**

Name of applicant: _____

Name of owner on premises: _____

Address of owner: _____

Telephone number of owner: _____

Telephone number of applicant: _____

State whether applicant is owner, lessee, agent, architect, engineer or contractor:

Location of land on which proposed work will be done: _____

Section: _____ Block: _____ Lot: _____ Sub. Div.: _____

Zoning District of Property: _____ Size of Lot: _____

Area of lot to be cleared or graded: _____

Proposed completion of date: _____

Name of contractor/agent, if different than owner: _____

Address: _____

Telephone number: _____

Date of Planning Board Approval: _____ (if required)

I hereby agree to hold the Town of Newburgh harmless from any claims arising from the proposed activity.

Signature of owner: _____ Date: _____

Signature of applicant (if different than owner): _____

TOWN ACTION:

Examined: _____ 20 _____

Approved: _____ 20 _____

Disapproved: _____ 20 _____

FEE LAW SUMMARY

PENDING APPLICATIONS

All applicants with matters pending before the Planning Board as of the effective date of this local law shall be required to post as escrow in the manner and upon the terms and conditions set forth below:

- (a) The Planning Board, in consultation with the applicant, shall compute the amount of the escrow to be posted with the Town. Such amount shall be reasonably related to the costs attendant to the Town's review of the application as of the effective date of this local law. Under no circumstances shall the escrow include amounts attributable to any costs incurred by the Town prior to the effective date of this local law.
- (b) Once computed and established by Resolution of the Planning Board, the applicant shall, within fifteen (15) days of said resolution, post escrow fees with the Secretary of the Planning Board. Failure to deliver the said escrow fees may result in delay of the further processing of the application.

SEVERABILITY

In the event a court of law determined that any provision of this chapter is unenforceable, then only that provision shall be affected and all other provisions shall be fully enforceable.

EFFECTIVE DATE:

This local law shall take effect immediately upon filing in the Office of the Secretary of State.

FEE ACKNOWLEDGEMENT

The town of Newburgh Municipal Code sets forth the schedule of fees for applications to the Planning Board. The signing of this application indicates your acknowledgement of responsibility for payment of these fees to the Planning Board for review of this application, including, but not limited to escrow fees for professional services (planner/consultant, engineering, legal), public hearing and site inspection. Applicant's submissions and resubmissions are not complete and will not be considered by the planning board or placed upon its agenda unless all outstanding fees have been paid. Fees incurred after the stamping of plans will remain the responsibility of the applicant prior to approval of a building permit or certificate of occupancy. Fee schedules are available from the Planning Board Secretary and are on the Town's website.

Robert Weiss

APPLICANT'S NAME (printed)

[Handwritten Signature]

APPLICANTS SIGNATURE

06/20/2024

DATE

Note: if the property abuts and has access to a County or State Highway or road, the following information must be place on the subdivision map: entrance location, entrance profile, sizing of drainage pipe (minimum length of pipe to be twenty-four (24) feet).

PROXY

(OWNER) PILOT TRAVEL CENTER LLC, DEPOSES AND SAYS THAT ~~HE/SHE~~ ^{THEY OWN LANDS}

RESIDES AT 239 ROUTE 17K

IN THE COUNTY OF ORANGE

AND STATE OF NEW YORK

AND THAT ^{THEY ARE} ~~HE/SHE~~ IS THE OWNER IN FEE OF Tax Lot: 89-1-38.22

WHICH IS THE PREMISES DESCRIBED IN THE FOREGOING

APPLICATION AS DESCRIBED THEREIN TO THE TOWN OF NEWBURGH

PLANNING BOARD AND The Oscar W. Larson Company
DBA OWL Services IS AUTHORIZED

TO REPRESENT THEM AT MEETINGS OF SAID BOARD.

DATED: 6/17/24

Will Cole
OWNERS SIGNATURE

Will Cole
OWNERS NAME (printed)

[Signature]
WITNESS' SIGNATURE

NAMES OF ADDITIONAL REPRESENTATIVES

SHANNON STONG
WITNESS' NAME (printed)

PROXY

(OWNER) PILOT TRAVEL CENTER LLC, DEPOSES AND SAYS THAT HE/SHE ^{THEY OWN LANDS}
RESIDES AT 239 ROUTE 17K
IN THE COUNTY OF ORANGE
AND STATE OF NEW YORK
AND THAT ^{THEY ARE} HE/SHE IS THE OWNER IN FEE OF Tax Lot: 89-1-38.22

WHICH IS THE PREMISES DESCRIBED IN THE FOREGOING
APPLICATION AS DESCRIBED THEREIN TO THE TOWN OF NEWBURGH
PLANNING BOARD AND Colliers Engineering & Design IS AUTHORIZED
TO REPRESENT THEM AT MEETINGS OF SAID BOARD.

DATED: 6/17/24

Will Cole
OWNERS SIGNATURE

Will Cole
OWNERS NAME (printed)

Shannon Stone
WITNESS' SIGNATURE

NAMES OF ADDITIONAL REPRESENTATIVES

SHANNON STONE
WITNESS' NAME (printed)

PLANNING BOARD DISCLAIMER STATEMENT
TO APPLICANTS

The applicant is advised that the Town of Newburgh Municipal Code, which contains the Town's Zoning Law, is subject to amendment. Submission of an application to this Board does not grant the applicant any right to continued review under the Code's current standards and requirements. It is possible that the applicant will be required to meet changed standards or new Code requirements made while the application is pending.

An approval by this Board does not constitute permission, nor grant any right to connect to or use municipal services such as sewer, water or roads. It is the applicant's responsibility to apply for and obtain the Town of Newburgh and other agency approvals not within this Board's authority to grant.

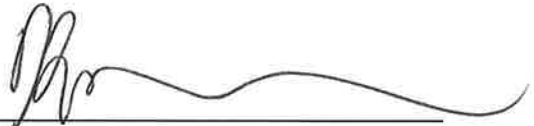
The applicant hereby acknowledges, consents, and agrees to the above.

06/20/2024

DATED

Robert Weiss

APPLICANT'S NAME (printed)



APPLICANT'S SIGNATURE

**DISCLOSURE ADDENDUM STATEMENT TO APPLICATION,
PETITION AND REQUEST**

Mindful of the provisions of Section 809 of the General Municipal Law of the State of New York, and of the Penal provisions thereof as well, the undersigned applicant states that no State Officer, Officer or Employee of the Town of Newburgh, or Orange County, has any interest, financial or otherwise, in this application or with, or in the applicant as defined in said Statute, except the following person or persons who is or are represented to have only the following type of interest, in the nature and to the extent hereinafter indicated:

 X NONE

 NAME, ADDRESS, RELATIONSHIP OR INTEREST
(financial or otherwise)

This disclosure addendum statement is annexed to and made a part of the petition, application and request made by the undersigned applicant to the following Board or Officer of the Town of Newburgh.

- TOWN BOARD
- X PLANNING BOARD
- ZONING BOARD OF APPEALS
- ZONING ENFORCEMENT OFFICER
- BUILDING INSPECTOR
- OTHER

 06/20/2024
DATED

 RACHEL WEISS
INDIVIDUAL APPLICANT

CORPORATE OR PARTNERSHIP APPLICANT

BY: _____
(Pres.) (Partner) (Vice-Pres.)
(Sec.) (Treas.)

AGRICULTURAL NOTE

N/A

(Required to be placed on all plans where property lies within 500 feet of land in active agricultural production or operation)

Property adjacent to lots (1) is in active agricultural operation and production and residents must be aware that such property is protected by New York State "Right to Farm Laws" as regulated by the Department of Agriculture and Markets. From time to time during and prior to the normal growing season land and crops may be sprayed from the ground or by air, manure may be applied, and periodic noise may occur from machinery operation at various times throughout the day. Residents should be aware of this action by the adjacent property owners.

(1) Specific lots adjacent to the active farming area which are impacted shall be inserted in this space.

AGRICULTURAL DATA STATEMENT

N/A

(Required pursuant to Agricultural and Markets Law §305-a for applications for site plan approvals, use variances and subdivision approvals that will occur on property within a County Agricultural District containing an active farm operation or on property with boundaries within five hundred feet of an active farm operation located in a County Agricultural District)

Name and address of the applicant: _____

Description of the proposed project: _____

Location of the proposed project: _____

Name(s) and address(es) of any owner(s) of land within a County Agricultural District containing active farming operations and located within five hundred feet of the boundary of the project property: _____

A tax map or other map showing the site of the proposed project relative to the location of the identified farm operations must be attached to this form.

APPLICANT'S SIGNATURE

DATE

N/A

ARCHITECTURAL REVIEW

The Town of Newburgh Planning Board had been authorized to act as the Architectural Review Board for all: site plans, projects involving ten or more dwelling units, and any construction that would affect the character of a neighborhood under Section §185-59 of the Town Code (Zoning Law).

In order to perform this task, at some point prior to final approval, the applicant shall provide the Planning Board with elevations of buildings for all sides and a written (separately or on drawings) description of the materials, colors and textures to be used in construction. Plans shall also include topographical information and any screening of portions of the buildings, either existing or proposed.

Samples of the material and colors to be used shall either be submitted to the Planning Board or brought to the meeting at which architectural review will be discussed.

N/A

ARCHITECTURAL REVIEW FORM
TOWN OF NEWBURGH PLANNING BOARD

DATE: _____

NAME OF PROJECT: _____

The applicant is to submit in writing the following items prior to signing of the site plans.

EXTERIOR FINISH (skin of the building):

Type (steel, wood, block, split block, etc.)

COLOR OF THE EXTERIOR OF BUILDING:

ACCENT TRIM:

Location: _____

Color: _____

Type (material): _____

PARAPET (all roof top mechanicals are to be screened on all four sides):

ROOF:

Type (gabled, flat, etc.): _____

Material (shingles, metal, tar & sand, etc.): _____

Color: _____

N/A

WINDOWS/SHUTTERS:

Color (also trim if different): _____

Type: _____

DOORS:

Color: _____

Type (if different than standard door entrée): _____

SIGN:

Color: _____

Material: _____

Square footage of signage of site: _____

Please print name and title (owner, agent, builder, superintendent of job, etc.)

Signature

LIST OF ADJACENT PROPERTY OWNERS

Within ten business days following the applicant's first appearance before the Planning Board, the applicant shall forward a letter prepared by the Planning Board or an authorized agent of the Planning Board to all property owners within 500 feet of the land involved in the application, as the names of such owners appear on the last completed assessment roll of the Town, notifying the property owners of the receipt of the plat and application, by first class mail. **The list of property owners shall be provided to the applicant from the Planning Board, through the Town Assessor's office.** The applicant shall thereafter submit a duly executed, notarized affidavit of mailing to the Planning Board. Further appearances before the Planning Board shall be prohibited until an affidavit meeting the requirements has been delivered. In the event a modification to an application proposes an increase in the number of lots or the relocation of a proposed road or drainage basin to a location adjacent to an adjoining property, then a supplementary letter shall be required to be forwarded in the same manner advising of the modification.

Narrative Summary

To: Town of Newburgh Planning Board

From: Colliers Engineering & Design

Date: July 9, 2024

Subject: Pilot Travel Center E.V. Charging Stations

Tax Lot: 89-1-38.22

239 NY-17K

Town of Newburgh, Orange County, NY

CED Project No.: 24004411A

On behalf of the Applicant, The Oscar W. Larson Company DBA OWL Services, Colliers Engineering & Design has compiled the attached Planning Board Application documents, including design plans for the above referenced project. The existing parcel is tax lot 89-1-38.22 and approximately 13.5 acres in size with roadway frontage along NYS Route 17K to the north. The parcel is currently developed with a Pilot Travel Center. The site is located within the Town of Newburgh B (Business) Zoning District.

In the northwest corner of the existing parking area along NYS Route 17K, the applicant is proposing to install two (2) electric vehicle (EV) charging stations, a small equipment pads adjacent to the stations, new electrical distribution, and minor site work to install the conduits, equipment pads. The charging stations will also be covered with a canopy over.

The estimated site disturbance for the proposed project is limited to ± 0.08 acres. Also, please note that the proposed installation of the EV charging stations reduces the overall existing site parking by one (1) space and the removal of an existing parking island.

At this time, the Applicant is seeking to have further discussions with the Town of Newburgh Planning Board for this proposed project at the next available meeting.

Short Environmental Assessment Form

Part 1 - Project Information

Instructions for Completing

Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

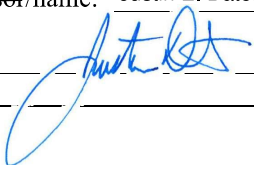
Part 1 – Project and Sponsor Information			
Name of Action or Project: Pilot Travel Center - E.V. Charging Stations			
Project Location (describe, and attach a location map): 239 NY-17K, Town of Newburgh, NY 12550, Tax Lot: 89-1-38.22			
Brief Description of Proposed Action: The existing parcel is tax lot 89-1-38.22 and approximately 13.5 acres in size with roadway frontage along NYS Route 17K to the north. The parcel is currently developed with a Pilot Travel Center. The site is located within the Town of Newburgh B (Business) Zoning District. In the northwest corner of the existing parking area along NYS Route 17K, the applicant is proposing to install two (2) electric vehicle (EV) charging stations, a small equipment pads adjacent to the stations, new electrical distribution, and minor site work to install the conduits, equipment pads. The charging stations will also be covered with a canopy over. The estimated site disturbance for the proposed project is limited to ±0.08 acres. Also, please note that the proposed installation of the EV charging stations reduces the overall existing site parking by one (1) space and the removal of an existing parking island.			
Name of Applicant or Sponsor: The Oscar W. Larson Company DBA OWL Services (Attn. Robert Weiss)		Telephone: (412) 877-4648 E-Mail: Robert.Weiss@owlservices.com	
Address: 6235 Southern Blvd.			
City/PO: Youngstown		State: OH	Zip Code: 44512
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.		NO <input type="checkbox"/>	YES <input type="checkbox"/>
2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval: Town of Newburgh Planning Board: Amended Site Plan Orange County Planning: GML 239 Referral		NO <input type="checkbox"/>	YES <input checked="" type="checkbox"/>
3. a. Total acreage of the site of the proposed action?		± 13.5 acres	
b. Total acreage to be physically disturbed?		± 0.08 acres	
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?		± 13.5 acres	
4. Check all land uses that occur on, are adjoining or near the proposed action:			
5. <input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Residential (suburban)			
<input type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input checked="" type="checkbox"/> Other(Specify): Adjacent Interstate 84			
<input type="checkbox"/> Parkland			

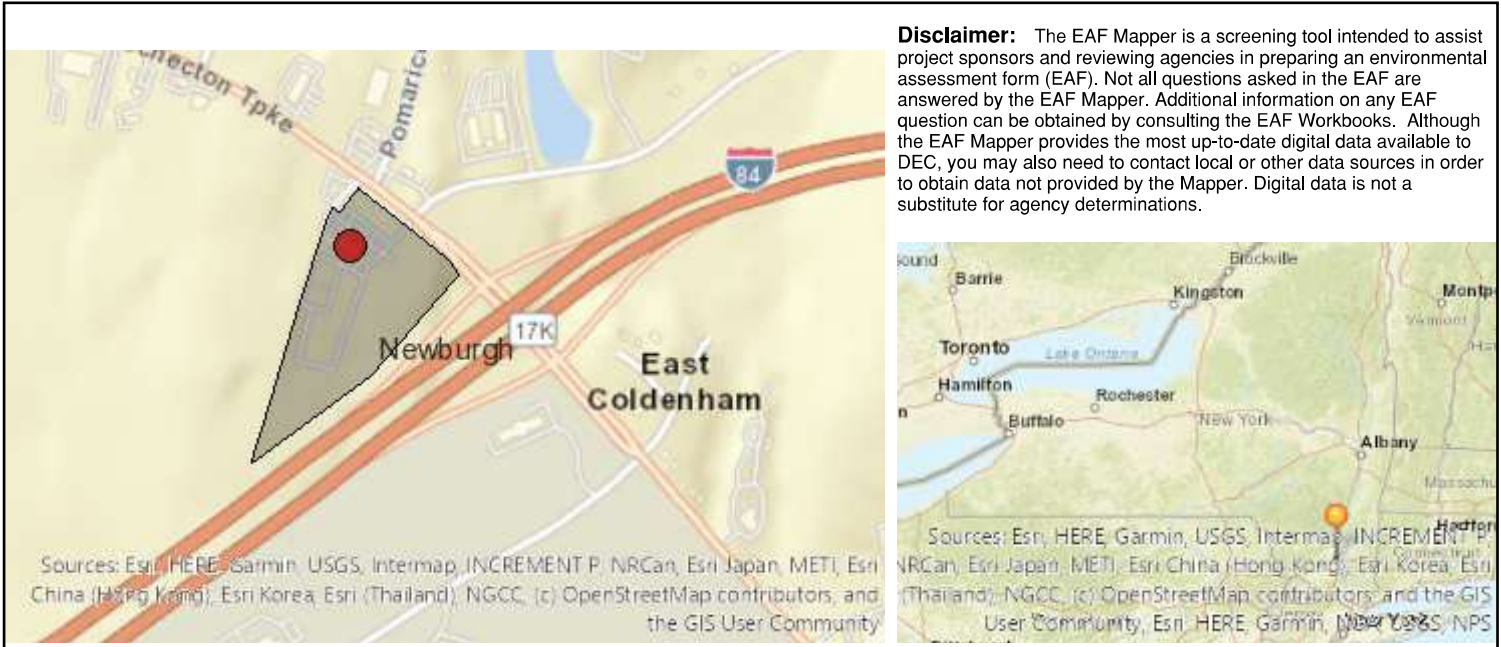
5. Is the proposed action,	NO	YES	N/A
a. A permitted use under the zoning regulations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Consistent with the adopted comprehensive plan?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	NO <input type="checkbox"/>	YES <input checked="" type="checkbox"/>	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>	
8. a. Will the proposed action result in a substantial increase in traffic above present levels? b. Are public transportation services available at or near the site of the proposed action? c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	NO <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	YES <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: The E.V. Charging Stations will comply with the required N.Y.S. Building and Energy Codes.	NO <input type="checkbox"/>	YES <input checked="" type="checkbox"/>	
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: Water service is not needed for this application (existing facilities).	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>	
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: Wastewater service is not needed for this application (existing facilities).	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>	
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	NO <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	YES <input type="checkbox"/> <input type="checkbox"/>	+
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency? b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____	NO <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	YES <input type="checkbox"/> <input type="checkbox"/>	

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: <input type="checkbox"/> Shoreline <input type="checkbox"/> Forest <input type="checkbox"/> Agricultural/grasslands <input type="checkbox"/> Early mid-successional <input type="checkbox"/> Wetland <input type="checkbox"/> Urban <input checked="" type="checkbox"/> Suburban		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered? Indiana Bat	NO	YES
	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16. Is the project site located in the 100-year flood plan?	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes,	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
a. Will storm water discharges flow to adjacent properties?	<input type="checkbox"/>	<input type="checkbox"/>
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe:	<input type="checkbox"/>	<input type="checkbox"/>

18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)? If Yes, explain the purpose and size of the impoundment:	NO	YES
_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>

19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe:	NO	YES
_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>

20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe:	NO	YES
_____	<input type="checkbox"/>	<input checked="" type="checkbox"/>
336002 (F&T Darrigo, Lakeside Road), 336088 (Stewart Int. Airport Site), 336089 (Stewart A.N.G. Base Site) ALL OFF-SITE		
I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE Consultant Applicant/sponsor /name: Justin E. Dates, RLA (Colliers Engineering & Design) Date: July 9, 2024 Signature:  Title: Geographic Discipline Leader		



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.

Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites]	No
Part 1 / Question 12b [Archeological Sites]	No
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	No
Part 1 / Question 15 [Threatened or Endangered Animal]	Yes
Part 1 / Question 15 [Threatened or Endangered Animal - Name]	Indiana Bat
Part 1 / Question 16 [100 Year Flood Plain]	No
Part 1 / Question 20 [Remediation Site]	Yes



P85335

INSTALLATION OF ELECTRIC VEHICLES CHARGING EQUIPMENT

PILOT TRAVEL CENTER 394

239 ROUTE 17K

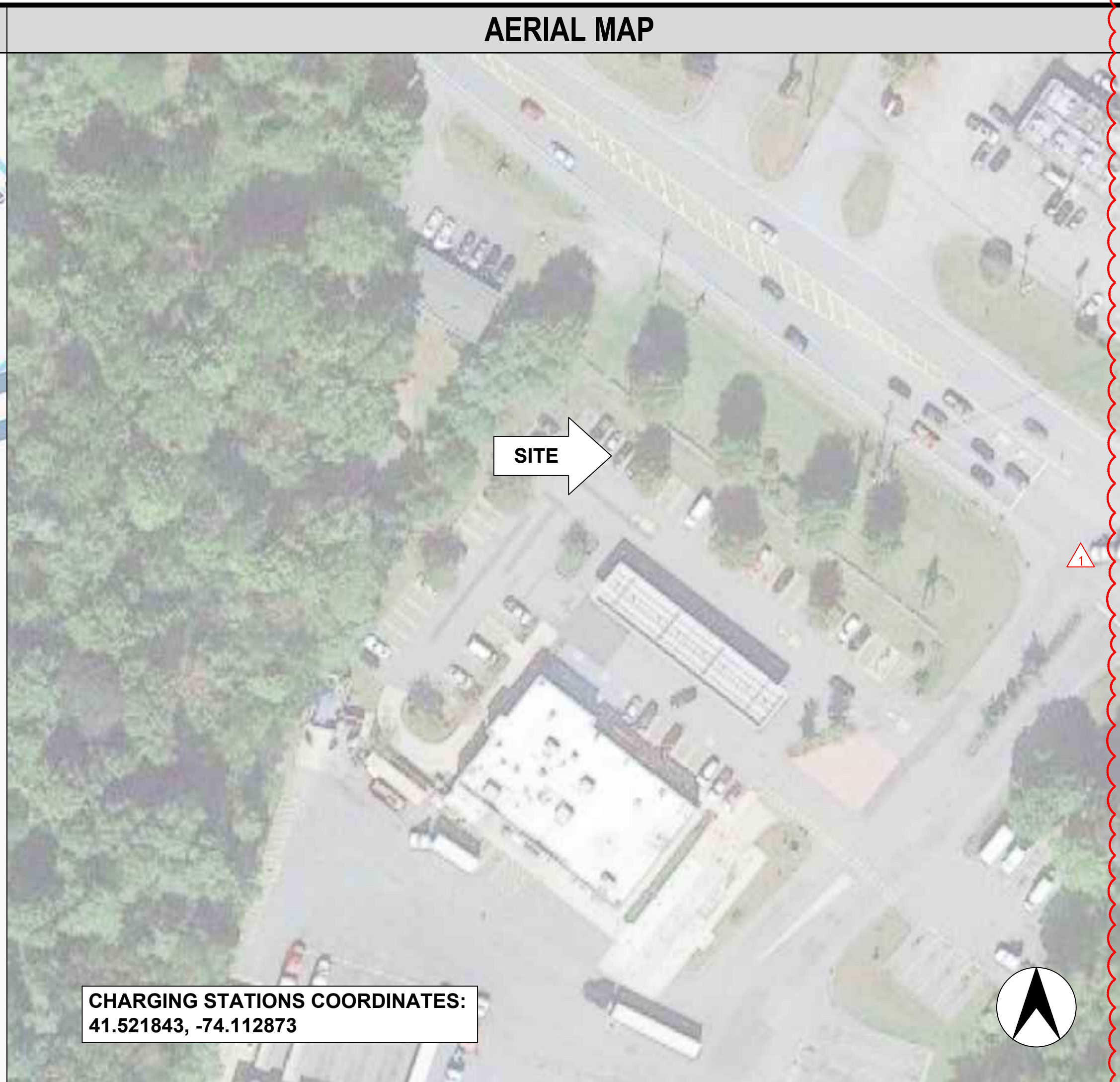
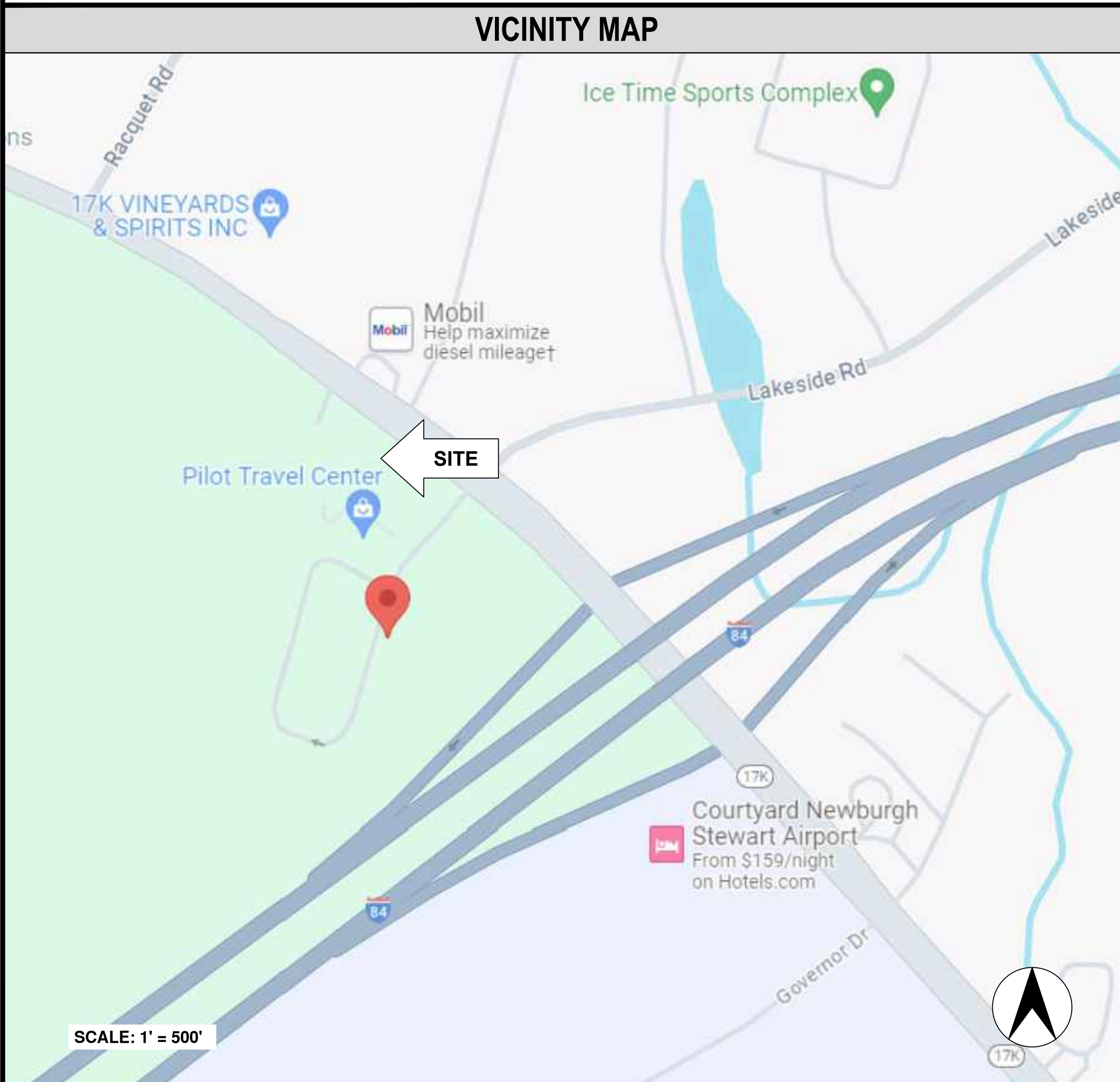
NEWBURGH, NY 12550

OWNER CONTACT INFO (NAME, ENTITY, ADDRESS, PHONE, EMAIL).

- PILOT TRAVEL CENTERS LLC
- 5508 LONAS DRIVE KNOXVILLE, TN 37909
- (865)209-6801
- UTILITY@PILOTRAVELCENTERS.COM

APPLICANT CONTACT INFO (NAME, ENTITY, ADDRESS, PHONE, EMAIL).

- ROBERT WEISS
- THE OSCAR W. LARSON COMPANY DBA OWL SERVICES
- 6235 SOUTHERN BLVD YOUNGSTOWN, OH 44512
- (412)877-4648
- ROBERT.WEISS@OWLSERVICES.COM



PROJECT DESCRIPTION
INSTALL (2) 350KW DELTA DISPENSERS AND SUPPORT EQUIPMENT IN A FOUR STALL PULL IN CONFIGURATION WITH A CANOPY

DRAWING INDEX	
SHEET NO.	SHEET TITLE
CS	COVER SHEET
C-1	OVERALL SITE PLAN
C-2	DEMOLITION SITE PLAN
C-3	ENLARGED SITE PLAN
C-4	SOIL AND EROSION CONTROL PLAN
LS-1	LANDSCAPE PLAN
LS-2	LANDSCAPE DETAILS
D-1	DETAILS
D-2	DETAILS
D-3	DETAILS
D-4	BUILDING CODES AND STANDARDS
D-5	SWITCHBOARD CUT SHEETS
D-6	FINAL UTILITY DESIGN
E-1	ELECTRICAL UTILITY PLAN
E-2	ELECTRICAL ENLARGED SITE PLAN
E-3	ELECTRICAL SINGLE LINE DIAGRAM
E-4	ELECTRICAL CONDUIT DETAILS
E-5	ELECTRICAL SPECIFICATIONS
E-6	ELECTRICAL SYMBOLS, ABBREVIATIONS AND GENERAL NOTES
E-7	EV POWER & DISPENSER STATIONS CUTSHEETS
E-8	ELECTRICAL LIGHTING PLAN
E-9	LIGHTING CUTSHEETS
G-1	ELECTRICAL GROUNDING DETAILS
GN-1	ELECTRICAL GENERAL CONSTRUCTION NOTES
	PROPERTY SURVEY (FOR REFERENCE ONLY)

CODE INFORMATION	
STATE JURISDICTION LATEST ELECTRICAL CODE, INCLUDING THE TABLES AND ANNEXES THERETO.	
STATE JURISDICTION LATEST BUILDING CODE, INCLUDING THE TABLES AND ANNEXES THERETO.	
STATE JURISDICTION LATEST ENERGY CODE, INCLUDING THE TABLES AND ANNEXES THERETO.	
STATE JURISDICTION LATEST REFERENCED STANDARDS CODE, INCLUDING THE TABLES AND ANNEXES THERETO.	
2015 INTERNATIONAL FIRE CODE.	

P85335 - PILOT TRAVEL CENTER 394
 ELECTRIC VEHICLE CHARGING
 239 ROUTE 17K
 NEWBURGH, NY 12550

NO.	DATE	REVISION DESCRIPTION
0	2023/02/22	ISSUED FOR REVIEW
1	2024/05/28	UPDATED PER ANY COMMENTS AND TO LATEST STANDARDS

CONTRACTOR NOTE

CONTRACTOR SHALL COMPLETE INSTALL PER THE SIGNED AND THE SEALED SET OF DRAWINGS. ANY NECESSARY DEVIATIONS FROM THE DRAWINGS MUST BE SUBMITTED THROUGH AN RFI REQUEST PROCESS WITH ENGINEERING FOR AN APPROVAL PRIOR TO CONTRACTOR PROCEEDING WITH A DEVIATION OF THE SIGNED AND SEALED SET OF DRAWINGS.

CALL BEFORE YOU DIG

Know what's below
Call before you dig.

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

ENGINEER OF RECORD

PHILLIP J. JAMINET
PE# 104030
OWL eMOBILITY

SHEET TITLE
COVER SHEET

SHEET NUMBER
CS



APN: 89-1-33
OWNER: E & J SYLCOX REALTY INC

APN: 89-1-32
OWNER: BERLIN LLC

APN: 89-1-26
OWNER: STEWART COMMONS LLC

15' BUILDING SETBACK

15' BUILDING SETBACK

BOOK 13422, PAGE 1095
APN: 89-1-38.22
OWNER: PILOT TRAVEL CENTERS, LLC

APN: 89-1-25.22
OWNER: STEWART COMMONS LLC

LINE	BEARING	DISTANCE
L1	N22°11'36"E	82.64'
L2	S54°23'30"E	45.23'
L3	N35°36'30"E	155.32'
L4	S48°44'02"E	87.28'
L5	S32°42'01"E	76.93'

ZONING TABLE	
TAX LOT NUMBER:	89-1-38.11
TOTAL LOT AREA:	590,004 SQ. FT.
ZONE CLASSIFICATION:	'B' BUSINESS DISTRICT
SETBACKS:	
FRONT:	40' BUILDING SETBACK
SIDES:	15' BUILDING SETBACK
REAR:	30' BUILDING SETBACK

OVERALL SITE PLAN
SCALE: 1" = 50'

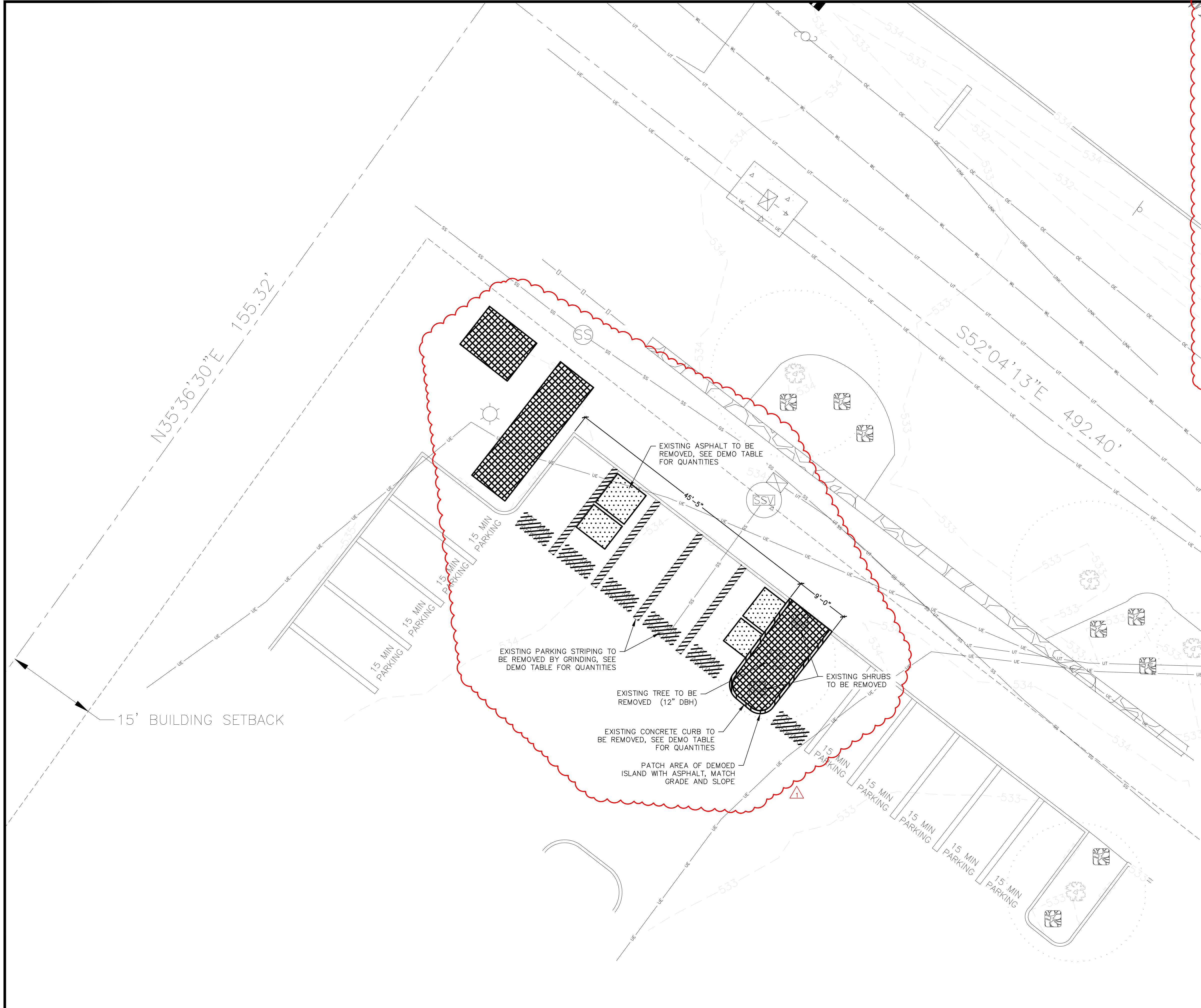
P85335 - PILOT TRAVEL CENTER 394
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DATE: 02/22/2023

SHEET TITLE: OVERALL SITE PLAN

SHEET NUMBER: C-1

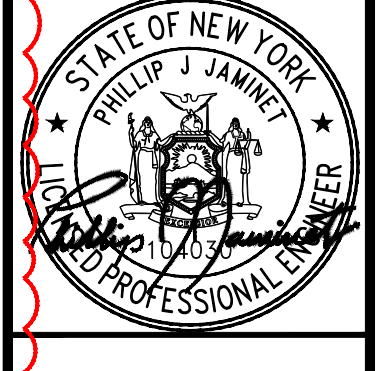


DEMO QUANTITIES TABLE

LEGEND	MATERIAL	AMOUNT	UNITS
	ASPHALT	114	SQ FT
	PARKING LINES	224	LIN FT
	CONCRETE CURB	44	LIN FT
	LANDSCAPING	388	SQ FT
	CONCRETE SIDEWALK	0	SQ FT

NOTES

1. THE CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED PRIOR TO BEGINNING WORK
2. THE CONTRACTOR SHALL RETURN SIDEWALKS, LANDSCAPING PLANTERS, IRRIGATION SYSTEMS, AND ANY OTHER FACILITIES DISTURBED BY THE WORK TO THE SAME OR BETTER CONDITION THAN EXISTED PRIOR TO THE COMMENCEMENT OF THE WORK.
3. ALL QUANTITIES LISTED IN THE DEMOLITION QUANTITIES TABLE ARE ONLY APPROXIMATIONS. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES BEFORE DEMOLITION.
4. ALL EXCAVATED MATERIALS ARE TO BE DISPOSED/STOCKPILED IN A LEGAL MANNER.
5. DUST CONTROL TO BE USED AS NEEDED.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO WORK BEGINNING.



P85335 - PILOT TRAVEL CENTER 394
 ELECTRIC VEHICLE CHARGING
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 NEWBURGH, NY 12550

NO.	DATE	REVISION DESCRIPTION
0	2023/02/22	ISSUED FOR REVIEW
1	2024/05/25	UPDATED PER AIA COMMENTS AND TO LATEST STANDARDS

DATE: 02/22/2023

SHEET TITLE: DEMOLITION SITE PLAN

SHEET NUMBER: C-2

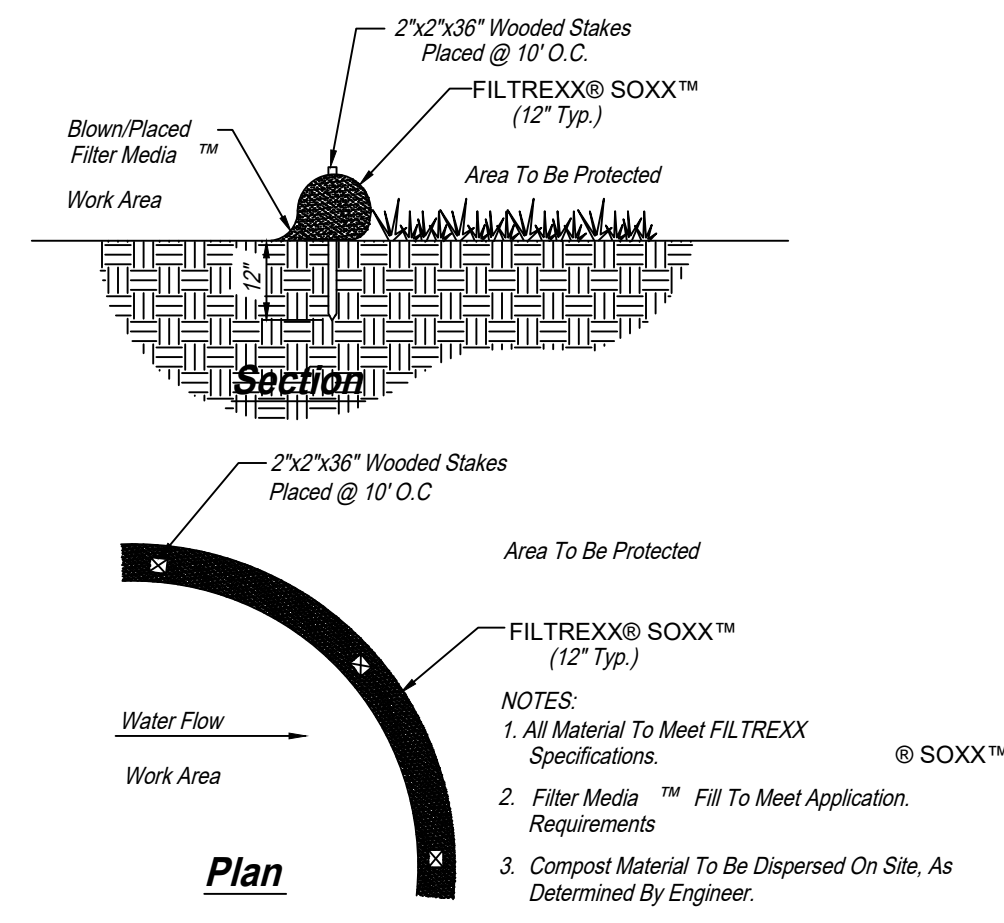


GENERAL NOTES

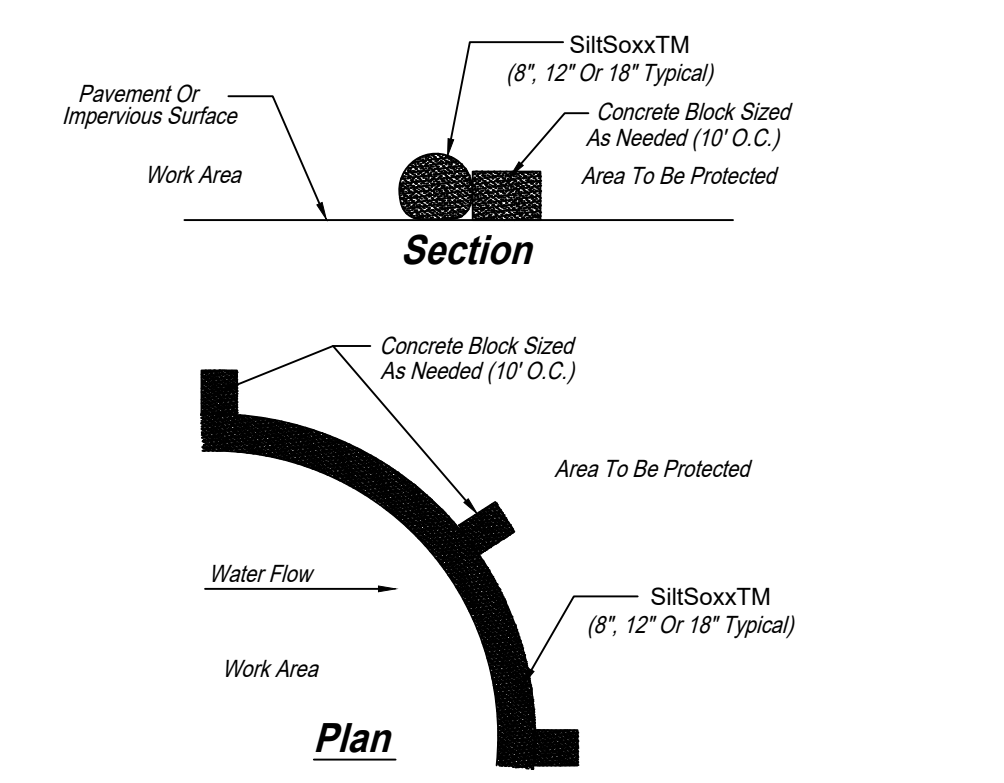
1. SILT FENCE TO BE USED WITHIN GRASS
2. SILT SOCK TO BE USED WITHIN PAVED AREAS
3. EROSION CONTROL TO BE PROVIDED AND MAINTAINED AROUND ENTIRE DISTURBED AREA DURING CONSTRUCTION.
4. ANY STOCKPILE AREA FOR EXCAVATED MATERIAL IS TO REMAIN WITHIN THE FENCED/SOCKED AREA. COORDINATE LOCATION IN FIELD.



P85335 - PILOT TRAVEL CENTER 394
 ELECTRIC VEHICLE CHARGING
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***FILTREXX® Sediment Control**
***Alternate To Silt Fence**



***SiltSoxxTM For Sediment Control On Pavement**



SILT SOCK DETAIL
 NO SCALE

SOIL AND EROSION CONTROL PLAN
 SCALE: 1/8" = 1'-0"

NO.	DATE	REVISION DESCRIPTION
0	2023/02/22	ISSUED FOR REVIEW
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DATE	02/22/2023
SHEET TITLE	SOIL AND EROSION CONTROL PLAN

SHEET NUMBER	C-4
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PLANT SCHEDULE							
TREES	CODE	QTY	BOTANICAL/COMMON NAME	PLANT SIZE	CONTAINER	MAT H.	MWT W.
	AR	4	ACER RUBRUM (RED MAPLE)	3" DBH	N/A	40'	25'
SHRUBS	CODE	QTY	BOTANICAL/COMMON NAME	PLANT SIZE	CONTAINER	MAT H.	MWT W.
	IL	13	ILEX GLABRA (INKBERRY)	MIN 30" H	N/A	5-8'	5-8'



LANDSCAPE PLAN
SCALE: 1/8" = 1'-0"



P85335 - PILOT TRAVEL CENTER 394
ELECTRIC VEHICLE CHARGING
239 ROUTE 17K
NEWBURGH, NY 12550

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1	2024/05/28	UPDATED PER ALL COMMENTS AND TO LATEST STANDARDS

DATE	02/22/2023
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SHEET TITLE
LANDSCAPE PLAN

SHEET NUMBER
LS-1

GENERAL LANDSCAPE NOTES

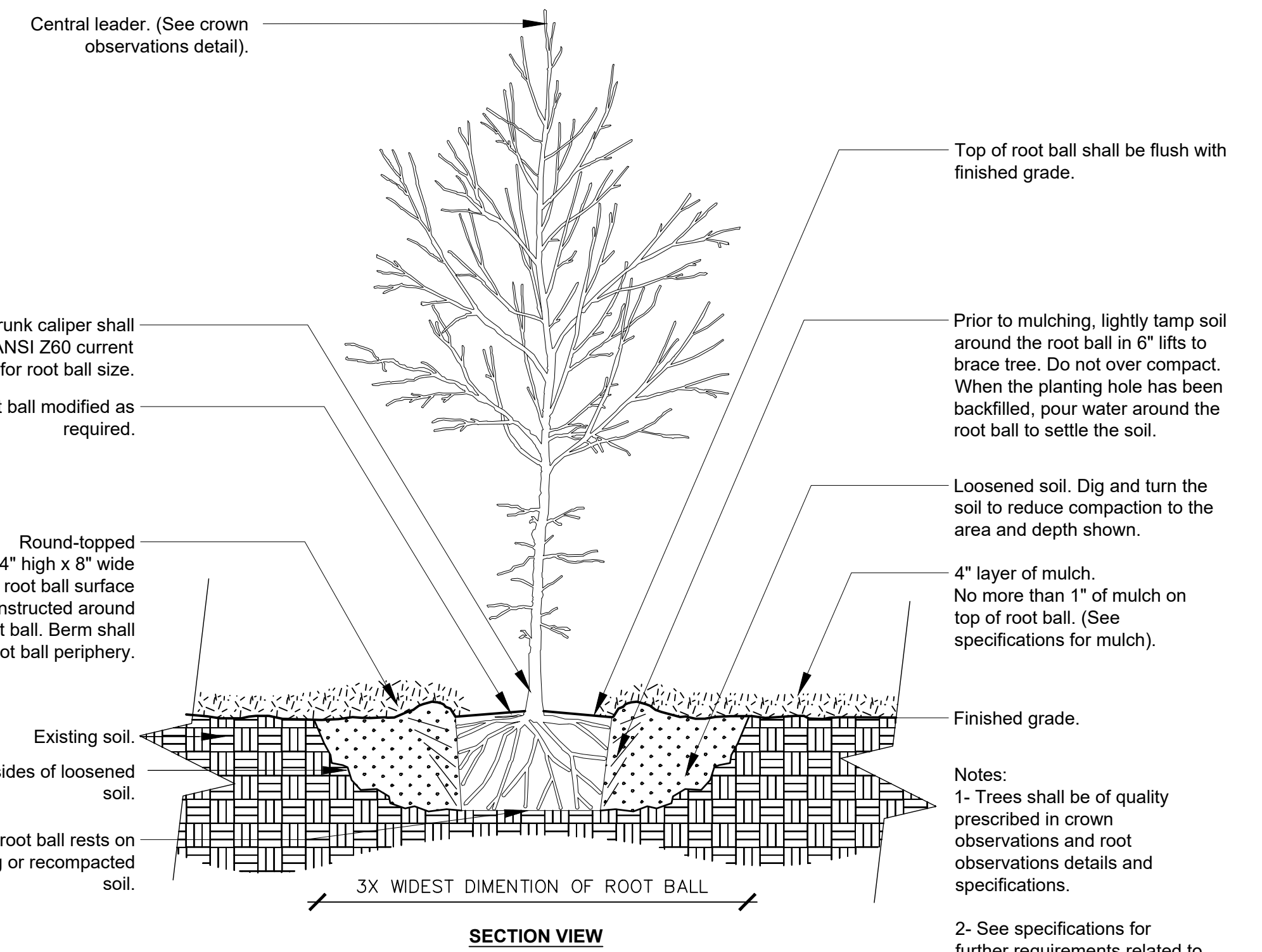
- CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL PROPOSED LANDSCAPING IS INSTALLED IN ACCORDANCE WITH PLANS, DETAILS, SPECIFICATIONS (IF APPLICABLE), AND ALL LOCAL CODES AND REQUIREMENTS, INCLUDING TREE PRESERVATION AND REPLACEMENT REGULATIONS.
- CONTRACTOR TO INSPECT SITE AND VERIFY CONDITIONS AND DIMENSIONING PRIOR TO PROCEEDING WITH WORK DESCRIBED HEREIN. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING ANY CONSTRUCTION.
- QUANTITIES PROVIDED IN THE PLANT LIST ARE FOR GENERAL USE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL PLANT AND LANDSCAPE MATERIAL QUANTITIES. SYMBOL COUNT ON PLAN TAKES PRECEDENCE OVER TABLE QUANTITIES.
- IMMEDIATELY AFTER AWARD OF CONTRACT, NOTIFY THE OWNER'S REPRESENTATIVE AND/OR THE LANDSCAPE ARCHITECT OF UNAVAILABILITY OF SPECIFIED PLANT MATERIAL FROM COMMERCIAL NURSERIES. THE OWNER'S REPRESENTATIVE AND/OR LANDSCAPE ARCHITECT WILL PROVIDE ALTERNATE PLANT MATERIAL SELECTIONS IF UNAVAILABILITY OCCURS. SUCH CHANGES SHALL NOT ALTER THE ORIGINAL BID PRICE UNLESS A CREDIT IS DUE TO THE OWNER.
- ALL PLANT MATERIALS TO CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.1.
- CONTAINER GROWN STOCK SHOULD HAVE GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS SOIL TOGETHER.
- ANY PLANT SUBSTITUTIONS, RELOCATION, OR REQUIRED CHANGE SHALL REQUIRE THE WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT OR OWNER.
- THE OWNER'S REPRESENTATIVE AND/OR LANDSCAPE ARCHITECT RESERVE THE RIGHT TO REFUSE ANY MATERIAL THEY DEEM UNACCEPTABLE.
- COORDINATE WITH PROJECT REPRESENTATIVE FOR DISTURBED SITE TREATMENTS OUTSIDE LANDSCAPE IMPROVEMENTS. SEE CIVIL PLANS FOR SOIL STABILIZATION FOR EROSION CONTROL.
- IF REQUIRED, CONTRACTOR TO ENSURE THAT AN AUTOMATED IRRIGATION SYSTEM THAT PROVIDES COMPLETE COVERAGE OF THE SITE IS INSTALLED PRIOR TO INSTALLING TREES/PALMS (SEE IRRIGATION PLAN SHEET IF PROVIDED). IF NO PLAN IS PROVIDED THE CONTRACTOR SHALL SUBMIT A PROPOSED DESIGN TO THE LANDSCAPE ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. THE PROPOSED DESIGN MUST HAVE AN APPROVED BACKFLOW DEVICE AND RAIN SENSOR INSTALLED TO STOP IRRIGATION DURING RAIN EVENTS. CONTRACTOR SHALL ENSURE THAT THERE IS POSITIVE DRAINAGE AND NO PONDING OF WATER AT ROOT AREA.
- ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEEDED/SODDED, FERTILIZED, MULCHED, WATERED, AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY RELOCATED TREES SHALL BE MAINTAINED UNTIL SUCH POINT AS THE TREE IS RE-ESTABLISHED. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR 1) TO VERIFY THE LOCATIONS OF UTILITY LINES ADJACENT TO THE WORK AREA AND 2) TO PROTECT ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD TO REPAIR ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE CONSTRUCTION AT NO COST TO THE OWNER.
- WEED BARRIER FABRIC IS REQUIRED UNDER ALL ROCK MULCH AND COBBLE AS SPECIFIED.
- SOLID STEEL EDGING WITH ROLLED TOP TO BE INSTALLED BETWEEN ALL ROCK MULCH, WOOD MULCH, COBBLE, AND SOD/NATIVE SEED. STEEL EDGING SHALL NOT BE INSTALLED BETWEEN SOD AND NATIVE AREAS.
- ALL PLANT MATERIAL QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN.
- IF A SWPPP PLAN IS PROVIDED, THIS PLAN IS TO BE IMPLEMENTED COOPERATIVELY WITH THE SWPPP PLAN AS NEEDED TO MAXIMIZE THE EFFECTIVENESS OF THE SWPPP PLAN SITE.
- ALL DISTURBED AREAS AS DESIGNATED ON THE GRADING PLAN SHALL BE COVERED PER.
- ALL PLANT MATERIAL IN TREE HOLDING AREAS SHALL BE MANUALLY WATERED/IRRIGATED TO KEEP MOIST UNTIL PLANTED.
- PRESERVE EXISTING TREES WITH A DBH OF EIGHT INCHES OR MORE UNLESS REMOVAL IS APPROVED BY THE PLANNING BOARD. FOR EVERY INCH OF DBH REMOVED, REPLACE WITH AN EQUAL NUMBER OF CALIPER INCHES (E.G., ONE 12-INCH DBH TREE = SIX 2-INCH CALIPER TREES).
- ENSURE SHRUBS USED FOR VEGETATIVE SCREENING ARE AT LEAST 24-30 INCHES IN HEIGHT AT PLANTING TO PROVIDE EFFECTIVE IMMEDIATE SCREENING.

PLANTING NOTES

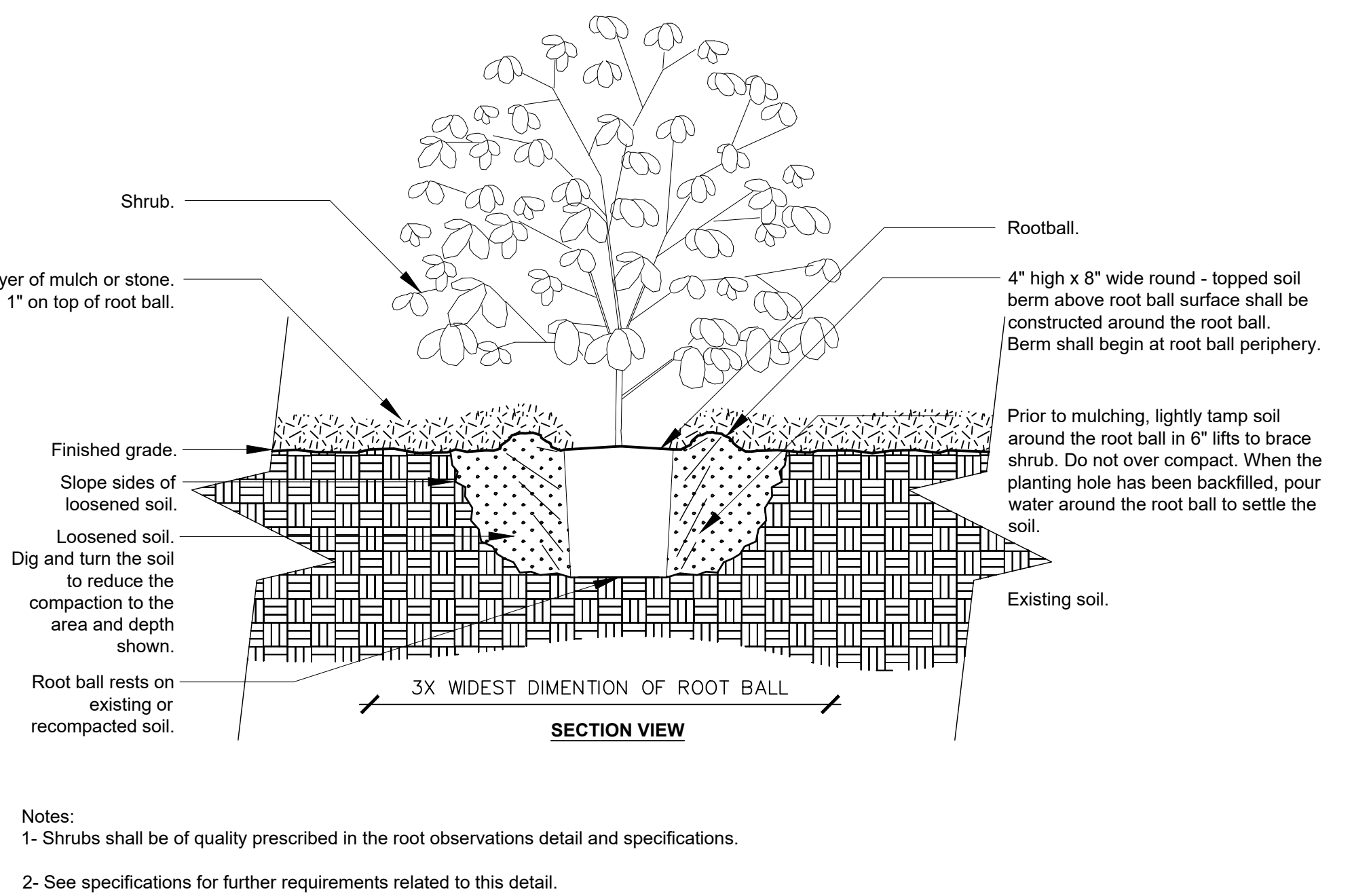
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING ALL PLANTED AREAS. ALL DELETERIOUS MATERIALS SUCH AS ROCK, TRASH, CONSTRUCTION DEBRIS, AGGREGATE BASE MATERIAL, ASPHALT, ETC. SHALL BE REMOVED PRIOR TO ANY FILL OPERATIONS. FILL ALL PLANTING AREAS WITH CLEAN EARTHEN FILL. SOIL SHALL BE FREE OF HEAVY, STIFF CLAY AND ANY DELETERIOUS MATERIAL OVER ONE INCH IN SIZE. THE TOP SIX INCHES OF FILL MATERIAL STRIPPED FROM SITE MAY BE UTILIZED FOR PLANTER OR TOPSOIL FILL IF PRIOR APPROVAL HAS BEEN OBTAINED FROM THE OWNER'S REPRESENTATIVE AND/OR LANDSCAPE ARCHITECT.
- FINISH GRADE OF LANDSCAPE AREAS (TOP OF TURF AND MULCH) MUST BE GRADED TO 3" BELOW ADJACENT PAVEMENT SURFACES.
- LOCATE SHRUBS A DISTANCE OF HALF OF THEIR AVERAGE MATURE SPREAD AWAY FROM WALKS, STRUCTURES, CONCRETE PADS, ETC. LOCATE GROUND COVER PLANTINGS A MINIMUM OF 2' FROM WALKS, STRUCTURES, CONCRETE PADS, ETC
- TOPSOIL DEPTH SHALL BE AS FOLLOWS: PLANTER BEDS-12" MINIMUM, NATIVE SEED - 12" MINIMUM
- ALL PLANTING BED SOILS SHALL BE AMENDED WITH 2" OF ORGANIC COMPOST AND TILLED INTO FIRST 4" OF SOIL
- BACKFILL ALL SHRUBS, GROUND COVER WITH A MIXTURE OF 2 PARTS NATIVE SOIL AND 1 PART SOIL CONDITIONING.
- THE LANDSCAPE CONTRACTOR SHALL WATER TEST ALL PLANTING HOLE PRIOR TO PLANTING. IF HOLES DO NOT DRAIN PROPERLY, EXCAVATE FURTHER UNTIL IMPERMEABLE LAYER IS BREACHED. EXCAVATED PLANT PITS SHALL HAVE POSITIVE DRAINAGE. PLANT PITS (WHEN FULLY FLOODED WITH WATER) SHALL DRAIN WITHIN 1 HOUR OF FILLING. ENSURE THAT ALL PLANT PITS HAVE POSITIVE DRAINAGE
- ALL PLANTING BEDS SHALL BE TREATED WITH A PRE-EMERGENT HERBICIDE. PRE-EMERGENT HERBICIDE SHALL BE APPLIED PER MANUFACTURE'S RECOMMENDATIONS AND SHALL OCCUR AFTER TOPSOIL PLACEMENT AND PRIOR TO INSTALLATION OF PLANT MATERIALS AND MULCH.
- FERTILIZE ALL PLANTS AT THE TIME OF PLANTING WITH A TIME RELEASE FERTILIZER PER BRAND'S SPECIFIED APPLICATION RATES.
- ALL SHRUBS SHALL BE PLANTED IN SUCH A MANNER AS TO ENSURE THEIR SURVIVAL.
- IF A NON-BIODEGRADABLE MATERIAL IS USED AROUND THE BALL, IT SHALL BE COMPLETELY REMOVED PRIOR TO BACKFILLING.
- PRIOR TO INSTALLATION, THE ROOTS OF CONTAINER GROWN STOCK SHALL BE SEPARATED OR SPLIT TO ENSURE PROPER ROOT DEVELOPMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY SCHEDULE AND PROTECTION BETWEEN DELIVERY AND PLANTING TO MAINTAIN HEALTHY PLANT CONDITIONS.
- ANY PLANT MATERIAL WHICH IS DISEASED, DISTRESSED, DEAD, OR REJECTED (PRIOR TO SUBSTANTIAL COMPLETION) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS. TREES & SHRUBS SHALL BE PLANTED AS SOON AS POSSIBLE AFTER DELIVERY
- NO SUBSTITUTIONS OR ALTERNATIVES WILL BE ALLOWED FOR GROUND SURFACE MATERIALS UNLESS APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT OR OWNER.
- A THREE INCH (3") TOP DRESSING/MULCHING SHALL BE PLACED IN ALL PLANT BEDS. SHRUBS SHALL HAVE TOP DRESSING TO THE OUTSIDE EDGE OF THE MANUFACTURED EDGING OR LANDSCAPE ISLAND. (SEE PLANTING DETAILS)

OTHER

- PLANT GUARANTEE REPLACEMENT AND MAINTENANCE NOTES
- A. GUARANTEE:**
ACCEPTANCE OF GRADING SHALL BE BY LANDSCAPE ARCHITECT AND/OR OWNER: THE CONTRACTOR SHALL ASSUME MAINTENANCE RESPONSIBILITIES UNTIL FINAL ACCEPTANCE. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, RESEEDING AND OTHER OPERATIONS NECESSARY TO KEEP ALL LAWN AREAS IN A THRIVING CONDITION. UPON FINAL ACCEPTANCE, OWNER SHALL ASSUME ALL MAINTENANCE RESPONSIBILITIES.
- B. REPLACEMENT:**
ANY PLANT UNDER THIS SPEC WHICH IS DEAD, MISSING, UNHEALTHY, OR OTHERWISE NOT ACCEPTABLE AND NOT IN SATISFACTORY GROWING CONDITION DURING CONSTRUCTION MAINTENANCE PERIOD, OR AT THE END OF THE GUARANTEE PERIOD, SHALL BE REMOVED FROM SITE AND REPLACED WITH SUITABLE, ACCEPTABLE PLANT AS SPECIFIED, WITHIN FIVE (5) DAYS.
- C. MAINTENANCE**
GENERAL CONTRACTOR SHALL PROVIDE ONE YEAR OF LANDSCAPE MAINTENANCE, FROM THE TIME THE PROJECT RECEIVES THE CERTIFICATE OF OCCUPANCY AND THERE AFTER, FOR ALL NEW LANDSCAPE. IF EXISTING LANDSCAPE EXISTS ON-SITE, GENERAL CONTRACTOR IS TO PROVIDE THE OPTION OF MAINTENANCE FOR THE OWNER'S REVIEW.
- HERBICIDES NOTES**
- APPLICATION OF HERBICIDES SHALL BE IN COMPLIANCE WITH STATE PESTICIDES REGULATIONS. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO CONSULT WITH THE REGULATORY AGENCIES FOR LOCAL HERBICIDES APPLICATION REQUIREMENTS.
 - IF THERE IS A DISCREPANCY BETWEEN STATE REGULATIONS AND ADDITIONAL REQUIREMENTS BELOW, MOST STRINGENT SHALL RULE.
 - NO AERIAL APPLICATION OF HERBICIDES IS PERMITTED ON SITE.
 - CARCINOGENS AND EPA TOXIC CATEGORY I AND II ARE PROHIBITED TO USE ON SITE.



TREE PLANTING DETAIL



SHRUB PLANTING DETAIL



P85335 - PILOT TRAVEL CENTER 394
ELECTRIC VEHICLE CHARGING
239 ROUTE 17K
NEWBURGH, NY 12550

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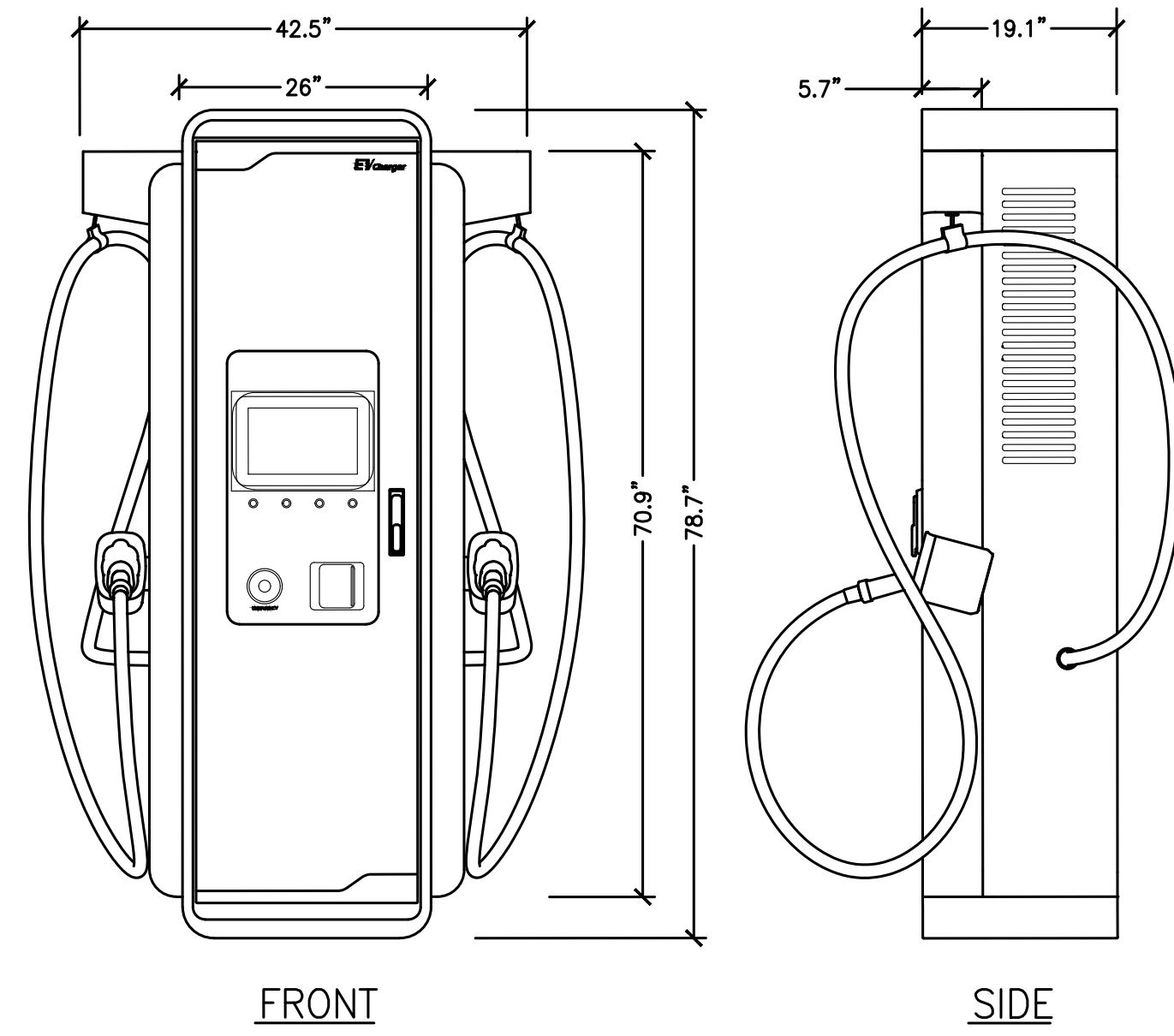
DATE	02/22/2023
SHEET TITLE	LANDSCAPE DETAILS

LANDSCAPE DETAILS

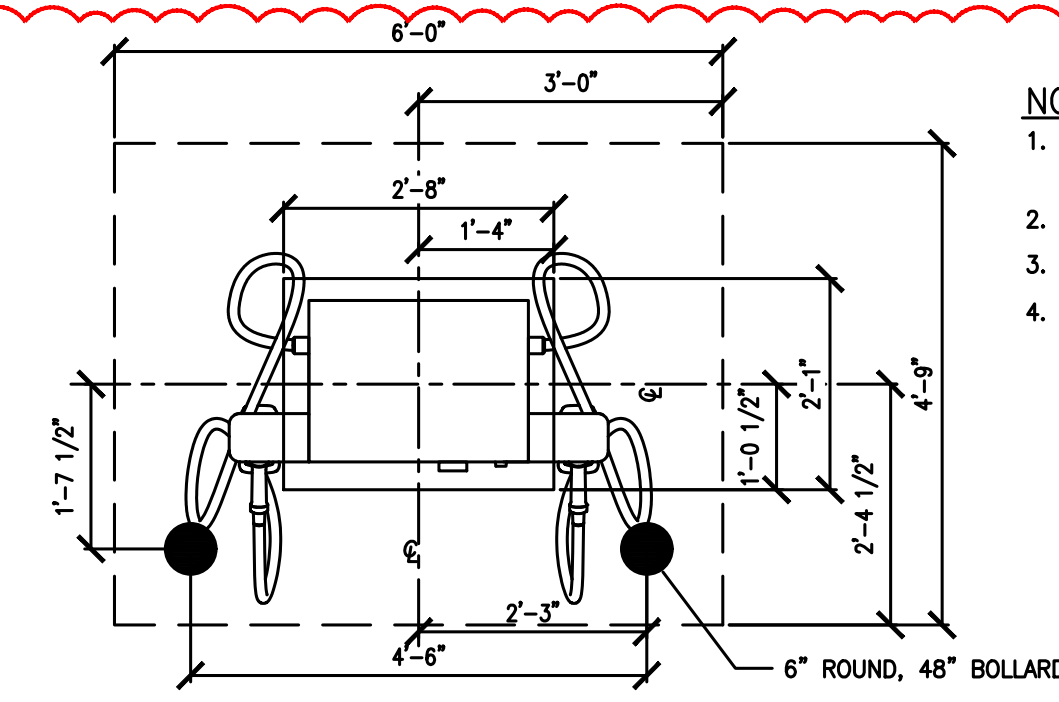
SHEET NUMBER
LS-2

NOTES:

1. MINIMUM CONCRETE EDGE DISTANCE FOR PROPOSED ANCHORS SHALL BE 6"
2. CONTRACTOR TO FIELD VERIFY THE ANCHOR SPACING PER MANUFACTURER'S INSTALLATION MANUAL.
3. CONTRACTOR TO REFER TO THE INSTALLATION MANUAL FOR ANCHORAGE AND CONDUIT ENTRY DETAILS.

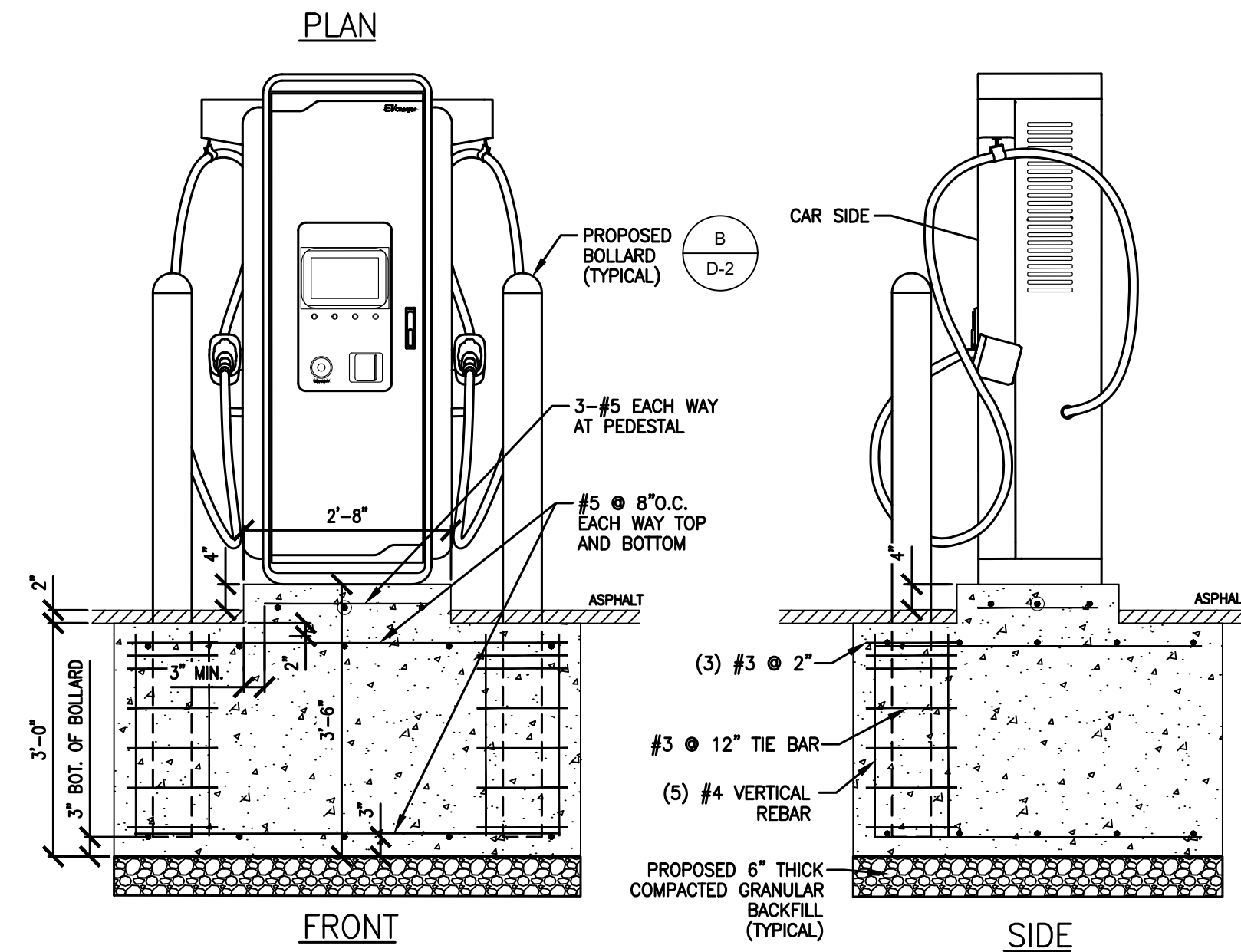


A
D-1
DISPENSER DETAIL (350KW)
NO SCALE



NOTES:

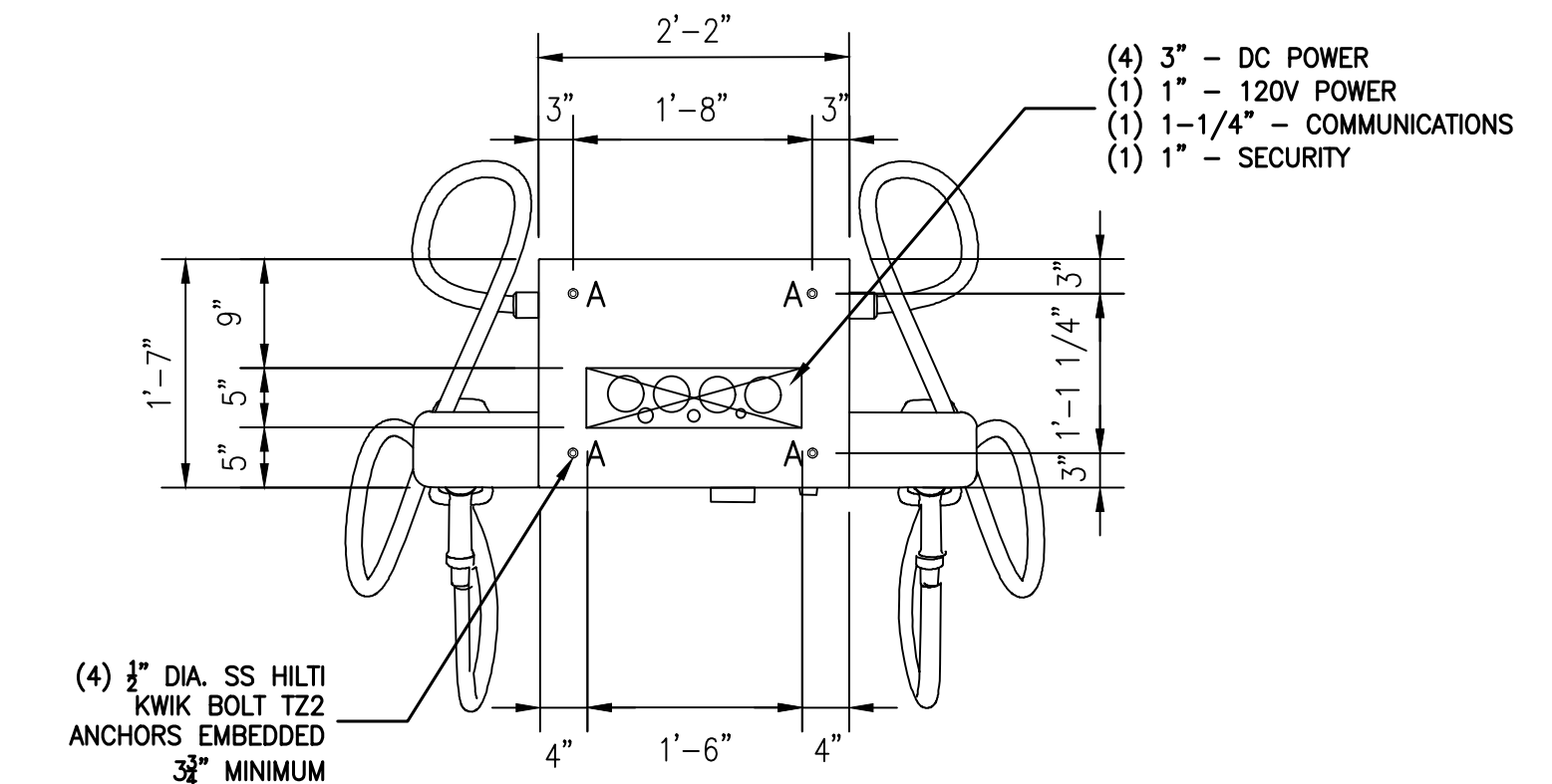
1. OPERABLE PARTS OF DISPENSER SHALL NOT EXCEED 48" ABOVE PARKING SURFACE.
2. BOLLARDS ARE FOR WARNING PURPOSE ONLY.
3. DISPENSER IS CENTERED ON PAD.
4. ENSURE A 3-INCH MINIMUM CONCRETE COVERAGE FROM EXPOSURE AROUND ALL REBAR.



B
D-1
DISPENSER FOOTING DETAIL (350KW)
NO SCALE

NOTES:

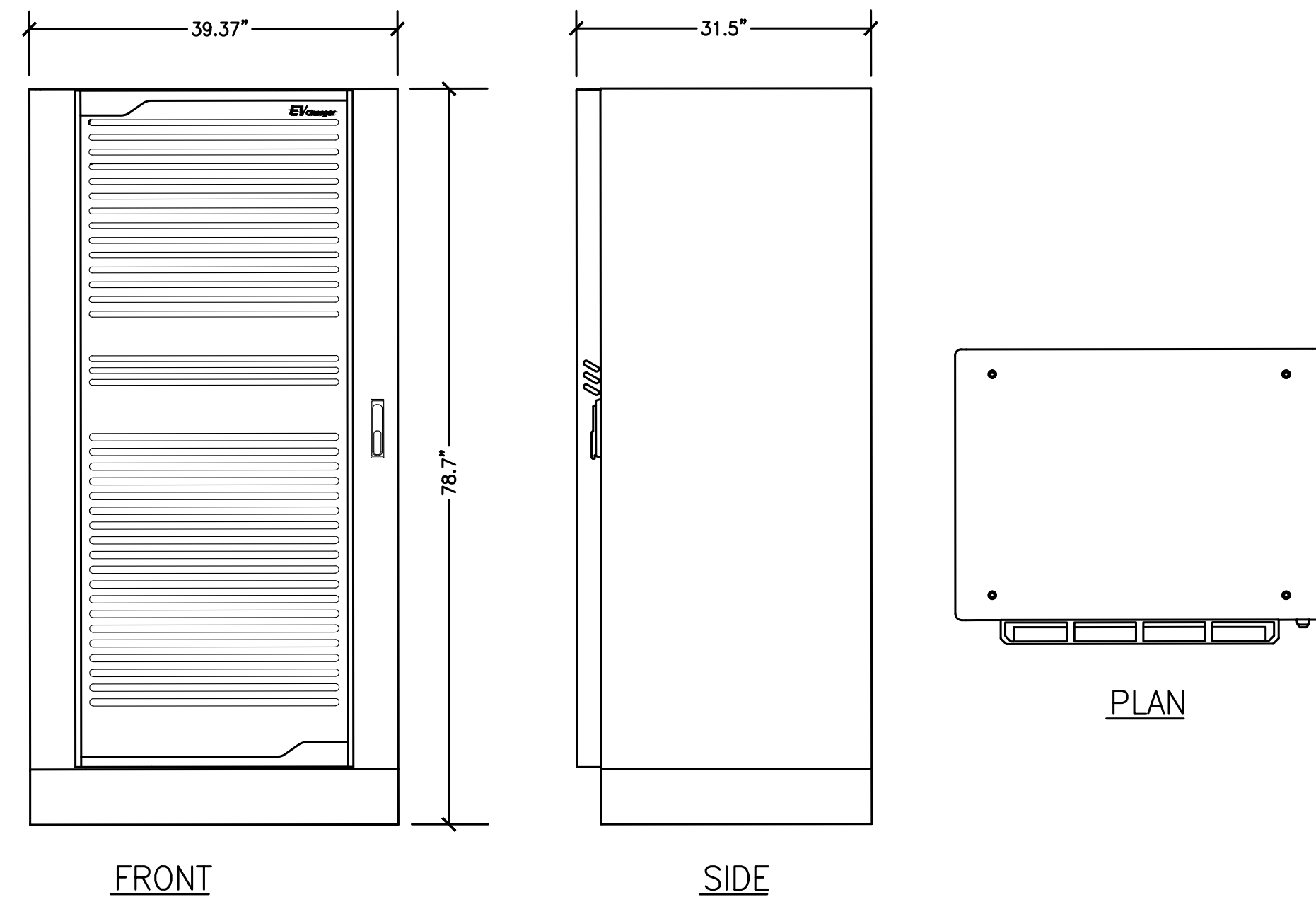
1. CONTRACTOR TO DRILL FOUR HOLES FOR INSTALLING THE CHARGER. CUT A RECTANGLE WITH A WIDTH OF 457.2 MM (18.00") AND A DEPTH OF 127 MM (5.00") FOR HOLDING THE POWER CABLES AND THE ETHERNET CABLE.
2. CONTRACTOR TO DRILL 4 HOLES INTO THE CEMENT BASE AT THE INDICATED POSITIONS (A).
3. CONTRACTOR TO MAKE SURE THAT THE CABLES EMERGE FROM THE FLOOR THROUGH THE RECTANGLE.
4. CONTRACTOR TO MAKE SURE THAT A CABLE LENGTH OF 0.6M IS AVAILABLE ABOVE THE FLOOR FOR INTERNAL ROUTING IN THE CABINET.



C
D-1
DISPENSER CABINET ANCHORAGE AND CONDUIT ENTRY DETAIL (350KW)
NO SCALE

NOTES:

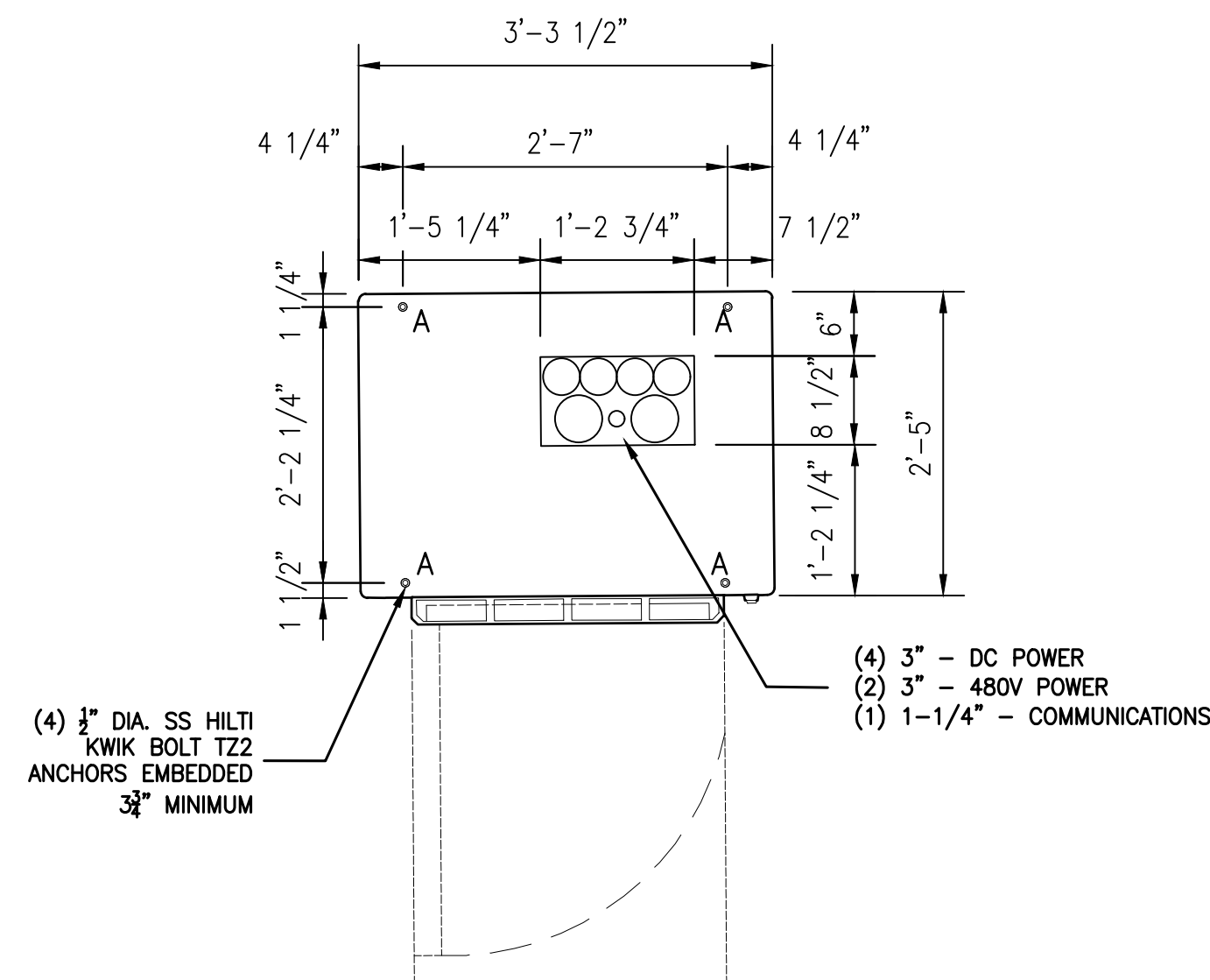
1. MINIMUM CONCRETE EDGE DISTANCE FOR PROPOSED ANCHORS SHALL BE 6"
2. CONTRACTOR TO FIELD VERIFY THE ANCHOR SPACING PER MANUFACTURER'S INSTALLATION MANUAL.
3. CONTRACTOR TO REFER TO THE INSTALLATION MANUAL FOR ANCHORAGE AND CONDUIT ENTRY DETAILS.



D
D-1
POWER CABINET DETAIL (350KW)
NO SCALE

NOTES:

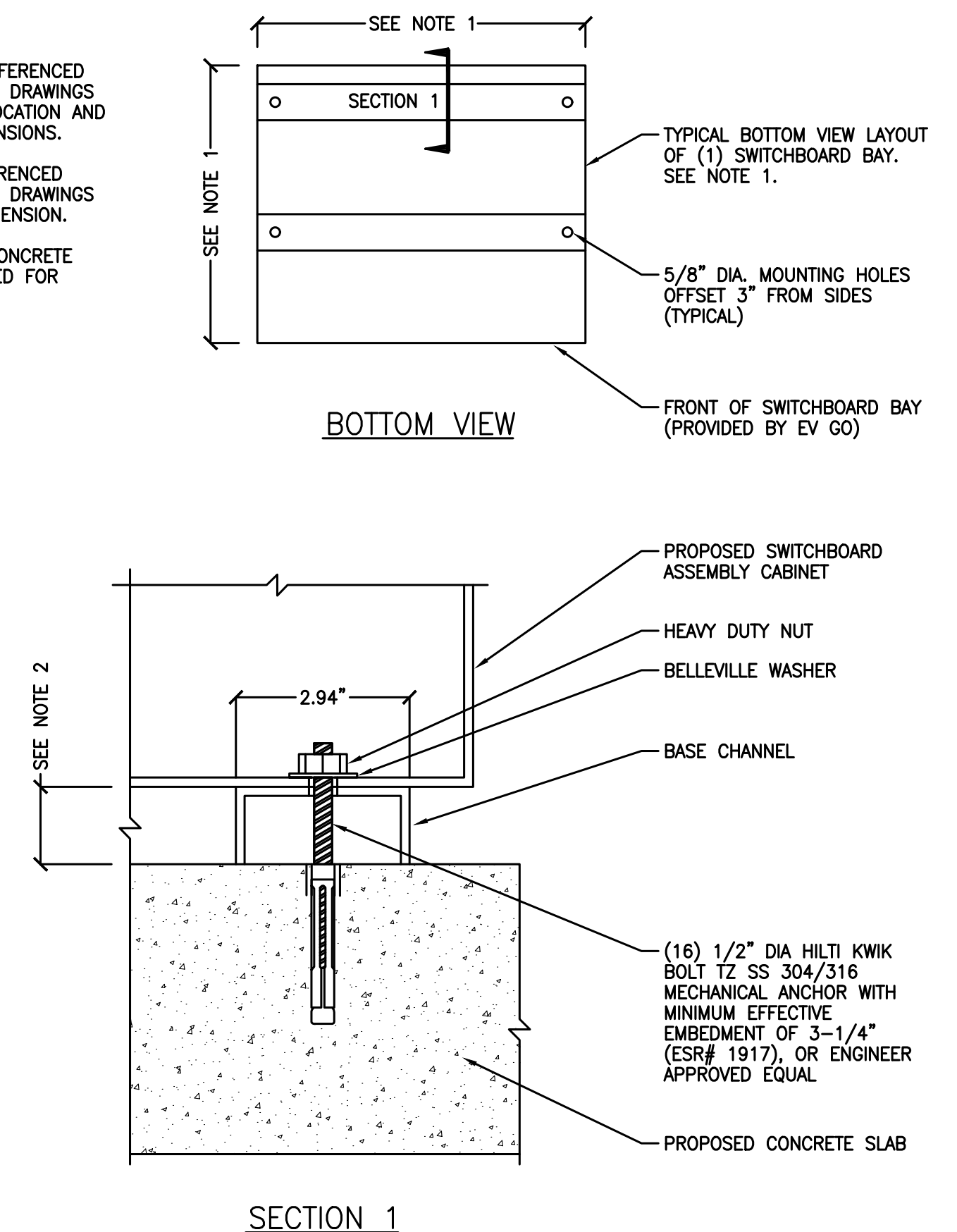
1. CONTRACTOR TO DRILL FOUR HOLES FOR INSTALLING THE CHARGER. CUT A RECTANGLE WITH A WIDTH OF 368.3 MM (14.75") AND A DEPTH OF 370.459 MM (8.50") FOR HOLDING THE POWER CABLES AND THE ETHERNET CABLE.
2. CONTRACTOR TO DRILL 4 HOLES INTO THE CEMENT BASE AT THE INDICATED POSITIONS (A).
3. CONTRACTOR TO MAKE SURE THAT THE CABLES EMERGE FROM THE FLOOR THROUGH THE RECTANGLE.
4. CONTRACTOR TO MAKE SURE THAT A CABLE LENGTH OF 0.6M IS AVAILABLE ABOVE THE FLOOR FOR INTERNAL ROUTING IN THE CABINET.



E
D-1
POWER CABINET ANCHORAGE AND CONDUIT ENTRY DETAIL (350KW)
NO SCALE

NOTES:

1. SEE FLOOR PLAN IN REFERENCED SWITCHBOARD ASSEMBLY DRAWINGS FOR MOUNTING HOLE LOCATION AND SWITCHBOARD BAY DIMENSIONS.
2. SEE ELEVATION IN REFERENCED SWITCHBOARD ASSEMBLY DRAWINGS FOR BASE CHANNEL DIMENSION.
3. MINIMUM 10-1/2" CONCRETE EDGE DISTANCE REQUIRED FOR PROPOSED ANCHORAGE.

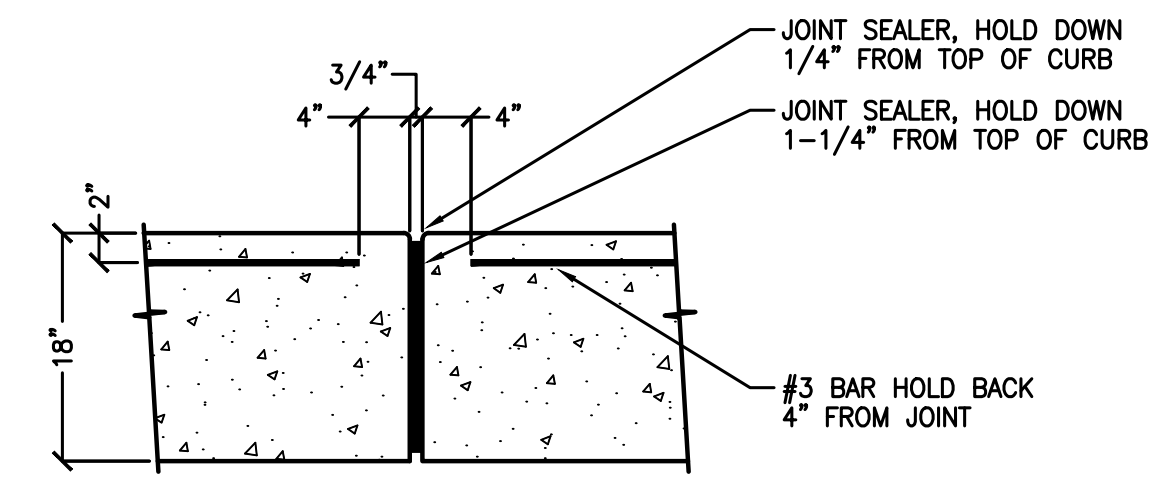
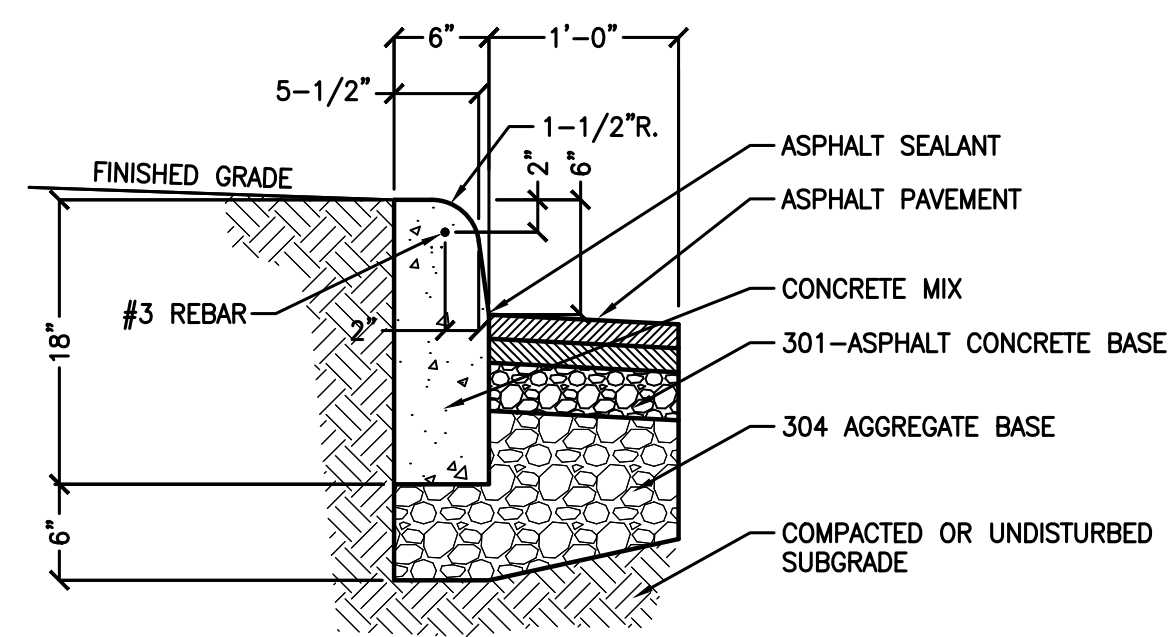


F
D-1
SWITCHBOARD MOUNTING DETAIL
NO SCALE

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DATE	02/22/2023
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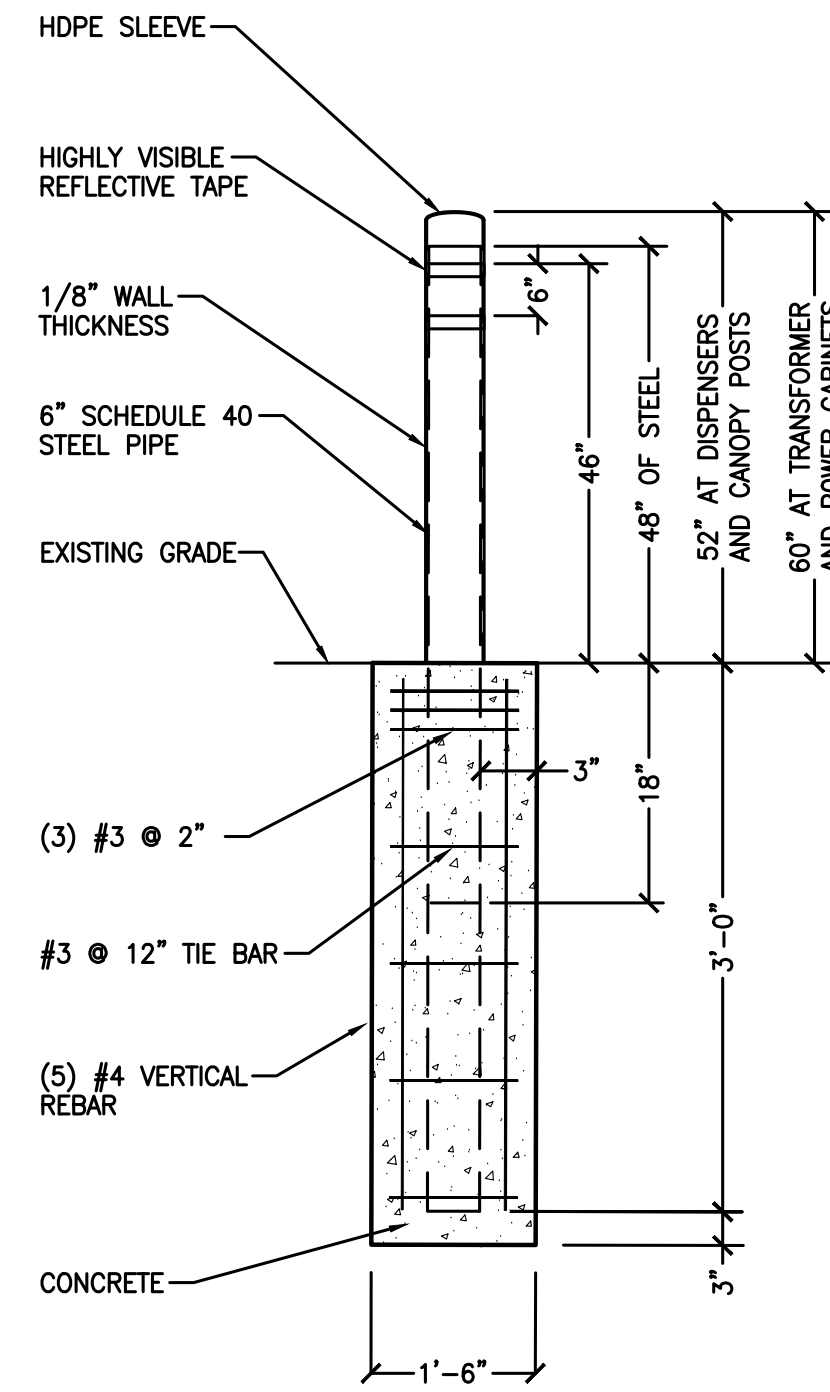
SHEET NUMBER	D-1
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VERTICAL CONTROL JOINT

A CONCRETE CURB
D-2 NO SCALE

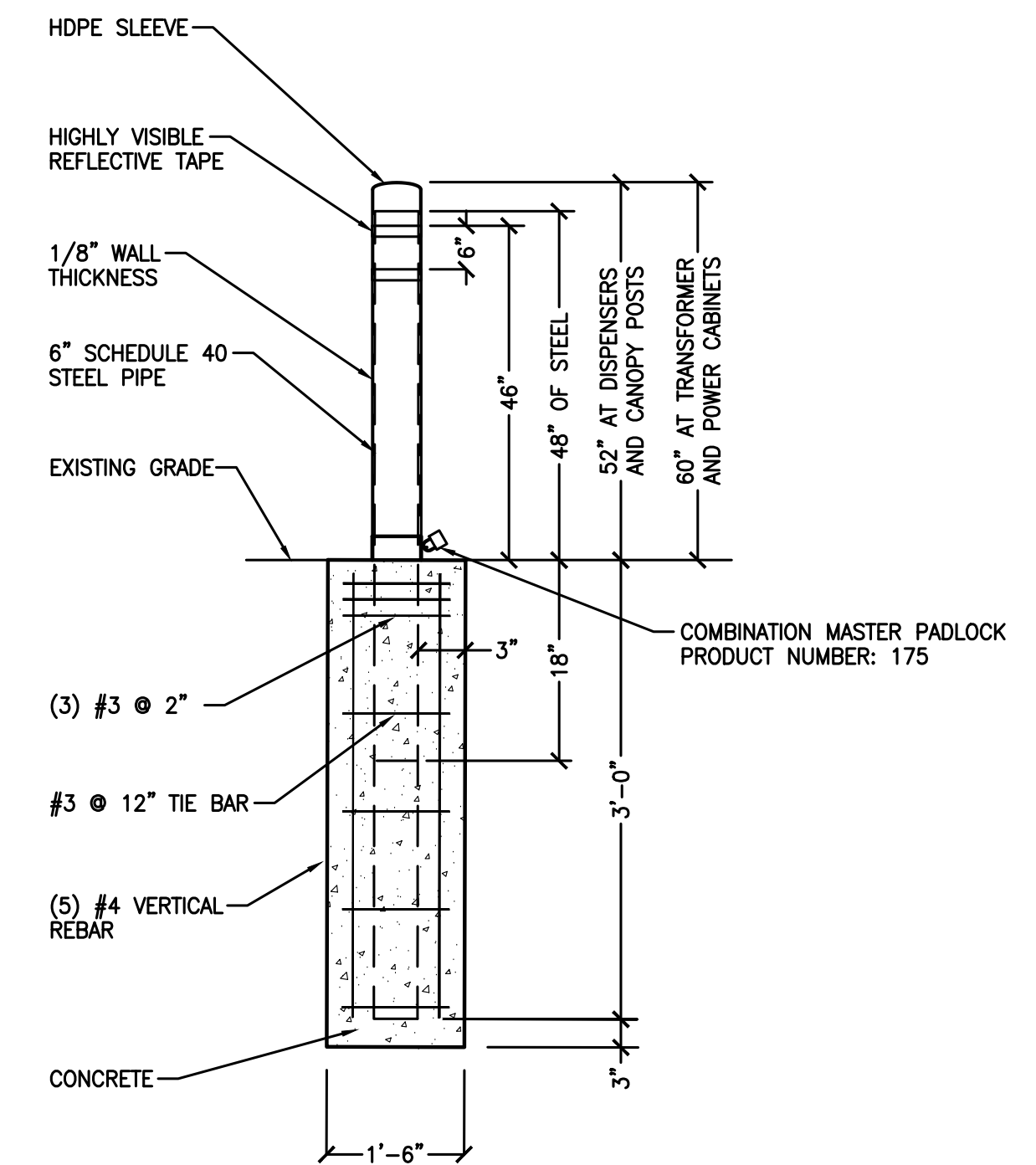
- NOTES:**
- BOLLARD IS FOR WARNING PURPOSES ONLY.
 - BOLLARD DETAIL FOR BOLLARDS AROUND EV EQUIPMENT.



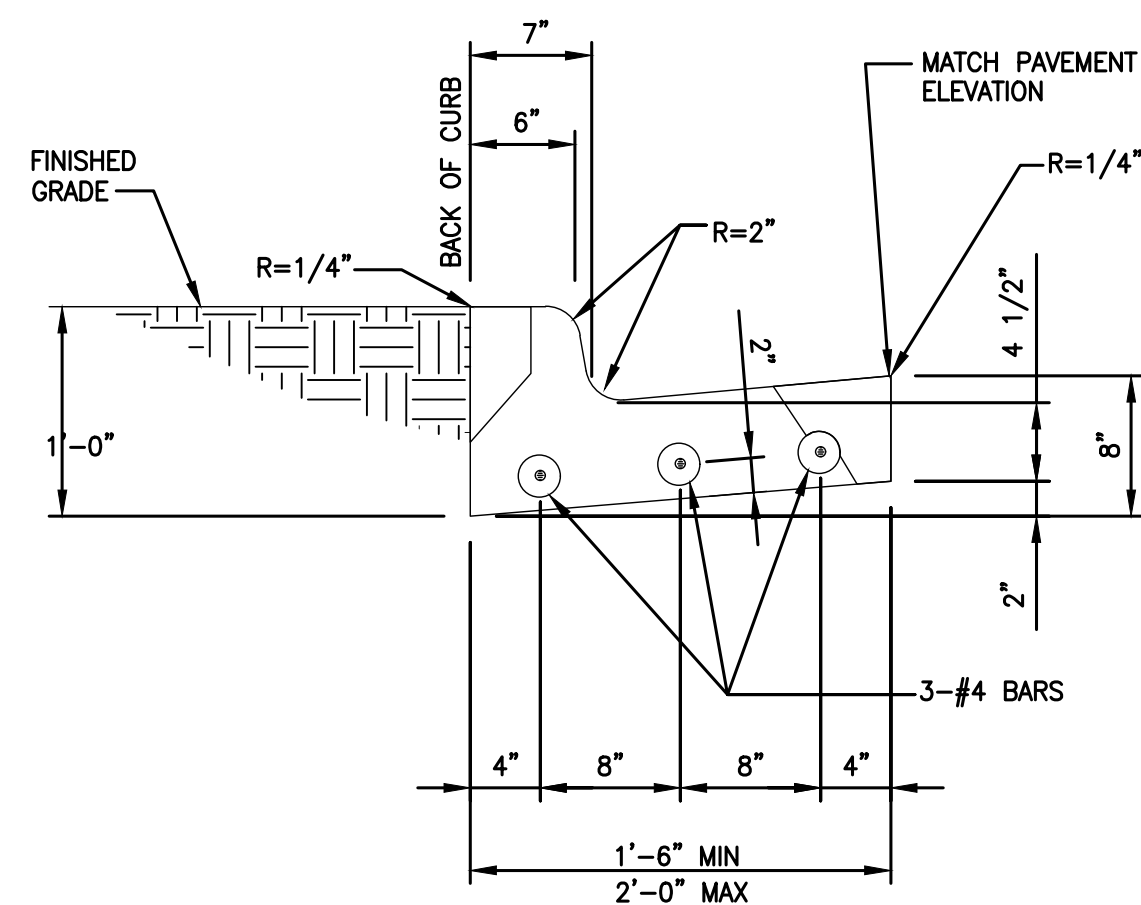
GENERAL

B 6" WARNING BOLLARD DETAIL
D-2 NO SCALE

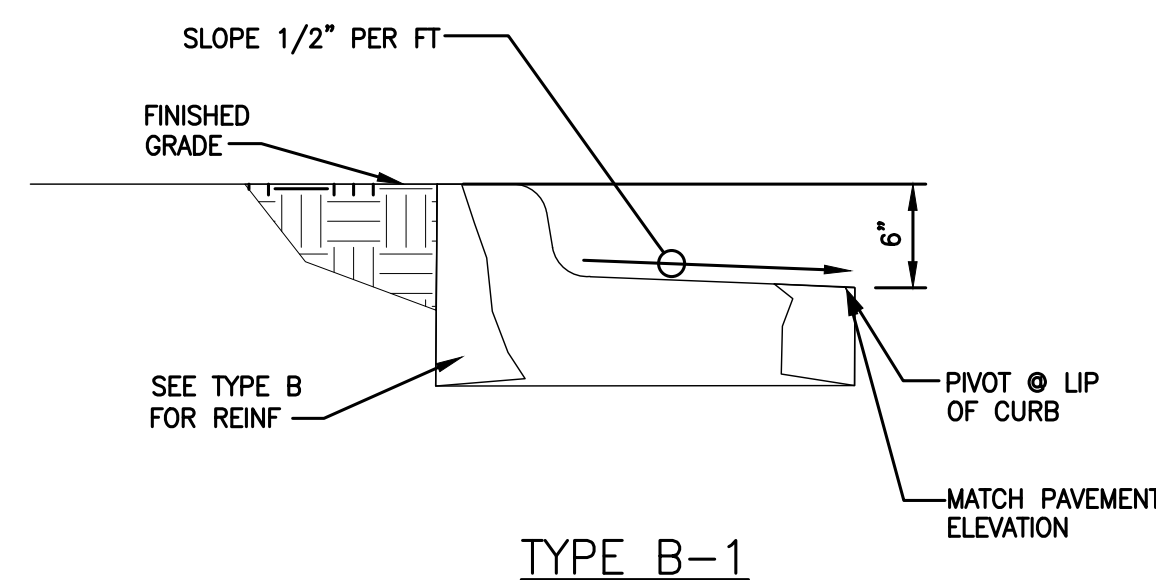
- NOTES:**
- BOLLARD DETAIL FOR SPECIFIED BOLLARDS AROUND PAD MOUNTED TRANSFORMER.
 - PRODUCT DETAILS: IDEAL SHIELD REMOVABLE LOCKING BOLLARD PART NUMBER: REMOV-LOCK-06-GALV



C 6" REMOVABLE LOCKING BOLLARD DETAIL
D-2 NO SCALE



TYPE B

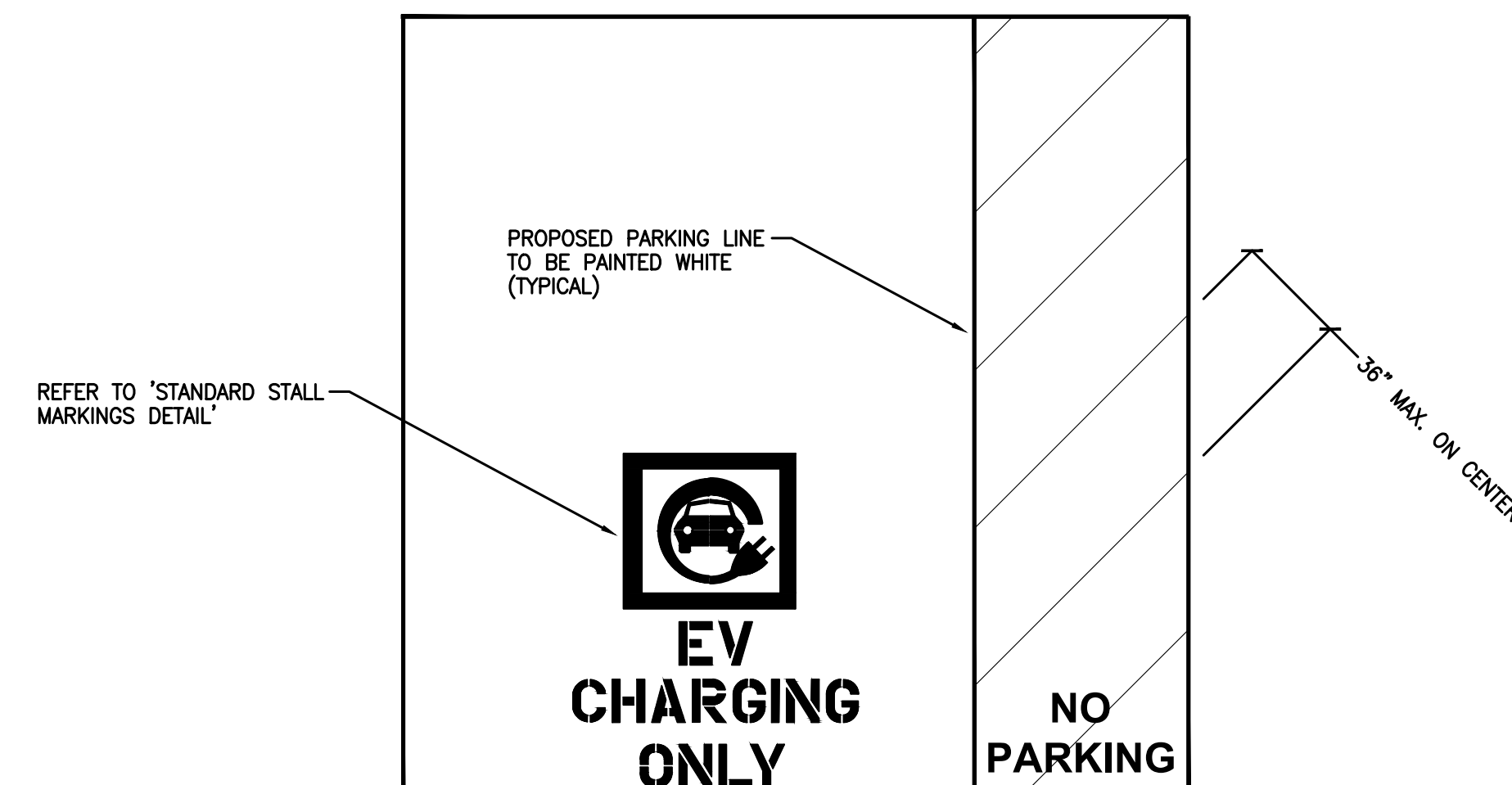


TYPE B-1

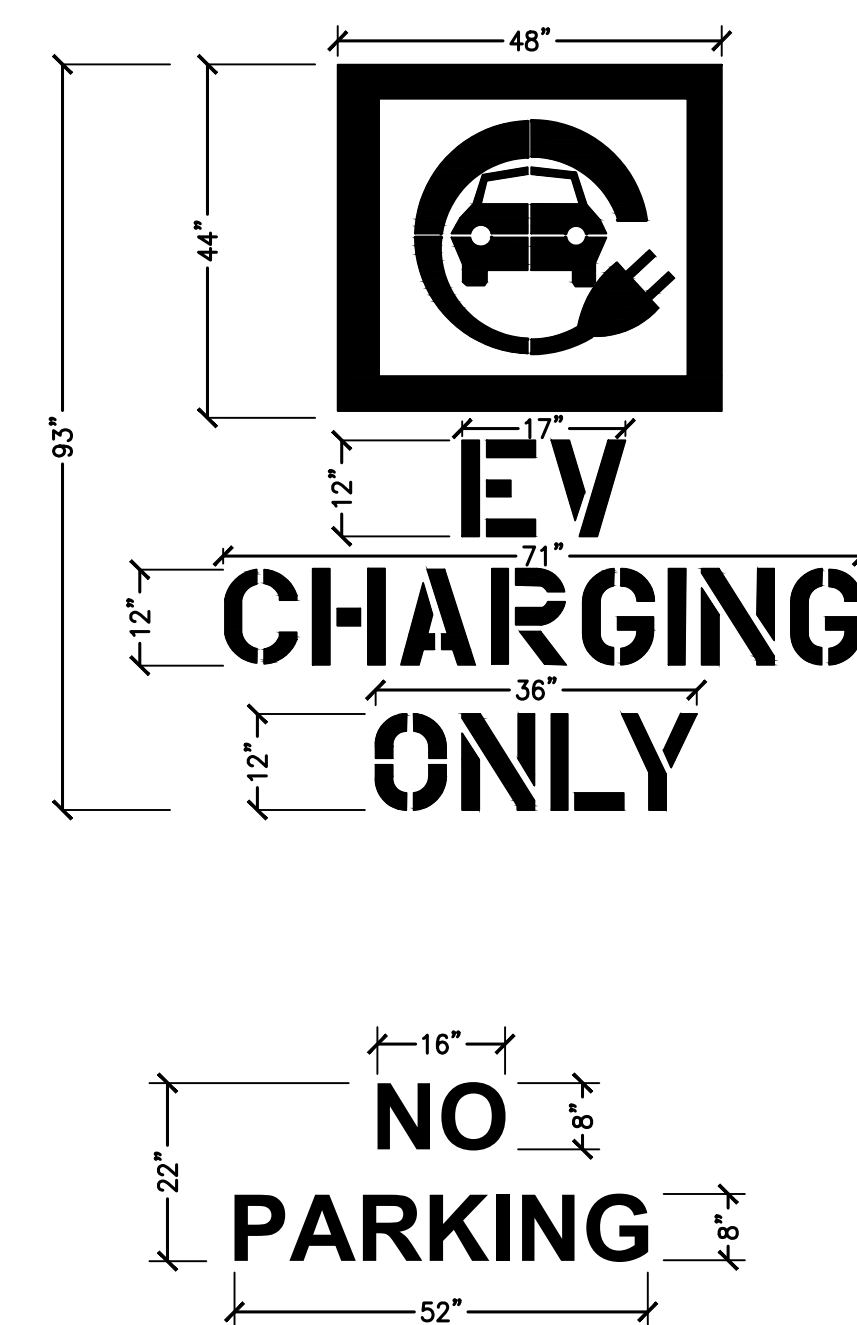
- NOTE:**
- 1/2" PRE MOLDED EXPANSION JOINTS SHALL BE PLACED AT POINTS OF CURVATURE, CURB RETURNS, CURB INLETS, AND AT 250' CENTERS. CONTRACTION JOINTS SHALL BE 2" DEEP, 3/16" WIDE, AND PLACED AT 15' INTERVALS EQUALLY SPACED BETWEEN EXPANSION JOINTS.

D CONCRETE CURB
D-2 NO SCALE

- NOTES:**
- PROPOSED ACCESSIBLE STALLS AND ACCESS AISLE SHALL BE 2% MAX SLOPE IN ALL DIRECTIONS.
 - REFER TO SHEET C-3 FOR PROPOSED SITE PLAN.
 - LOWER SIDE OF MARKING SHOULD BE ALIGNED WITH THE END OF THE PARKING SPACE.
 - THE CENTER OF THE TEXT SHALL BE A MAXIMUM OF 6 INCHES FROM THE CENTERLINE OF THE VEHICLE SPACE.



E EVCS ACCESSIBLE STALL MARKING PLAN
D-2 NO SCALE



- NOTE:**
- PROVIDE 4.5" SPACING BETWEEN STENCILS
 - LOCATION: CENTER AT FOOT OF PARKING STALL
 - FONT: STANDARD GOTHIC
 - COLOR: WHITE ON EXISTING SURFACE (NO FILL INSIDE STENCIL)

F STANDARD STALL MARKINGS DETAIL
D-2 NO SCALE

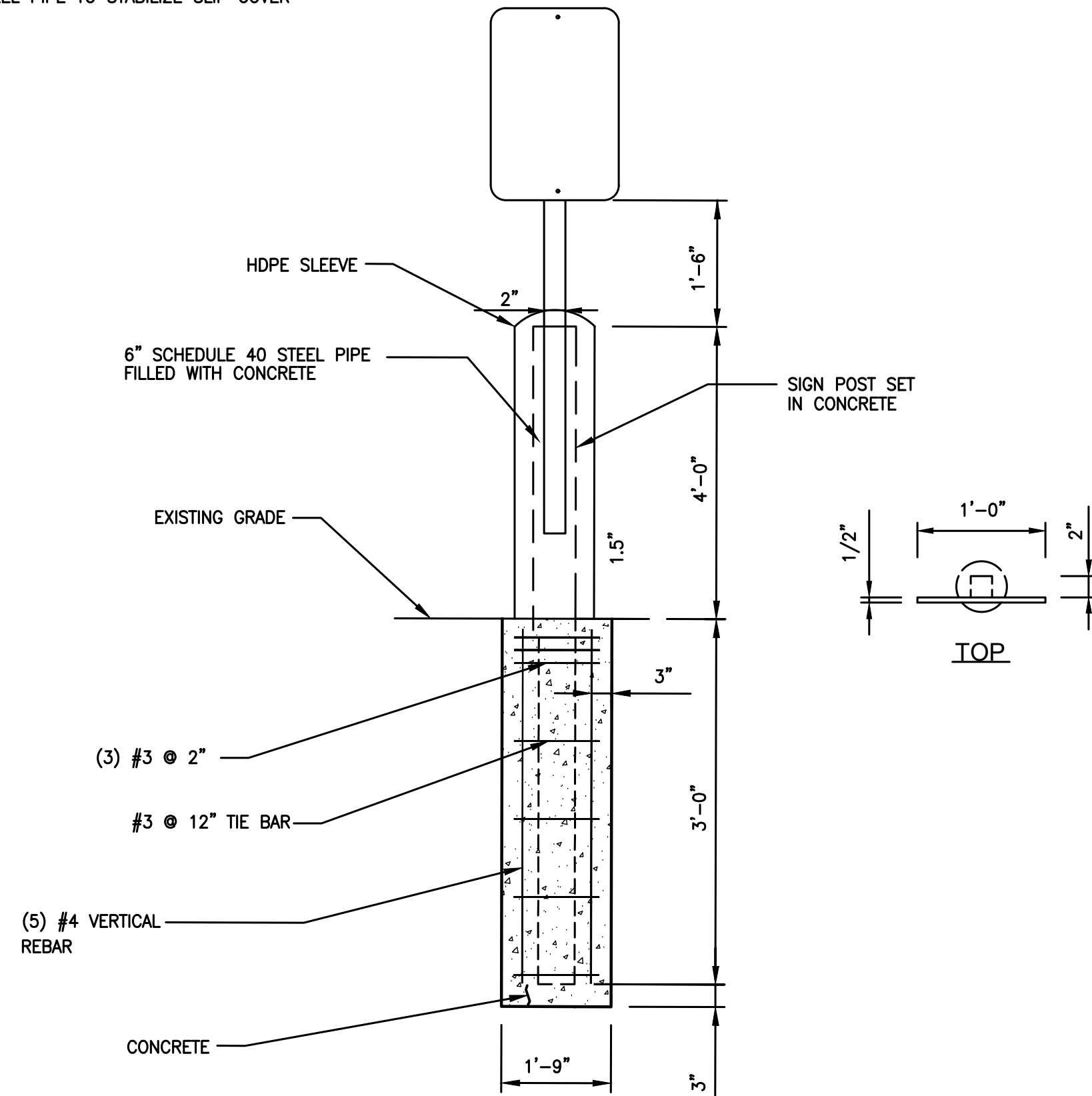
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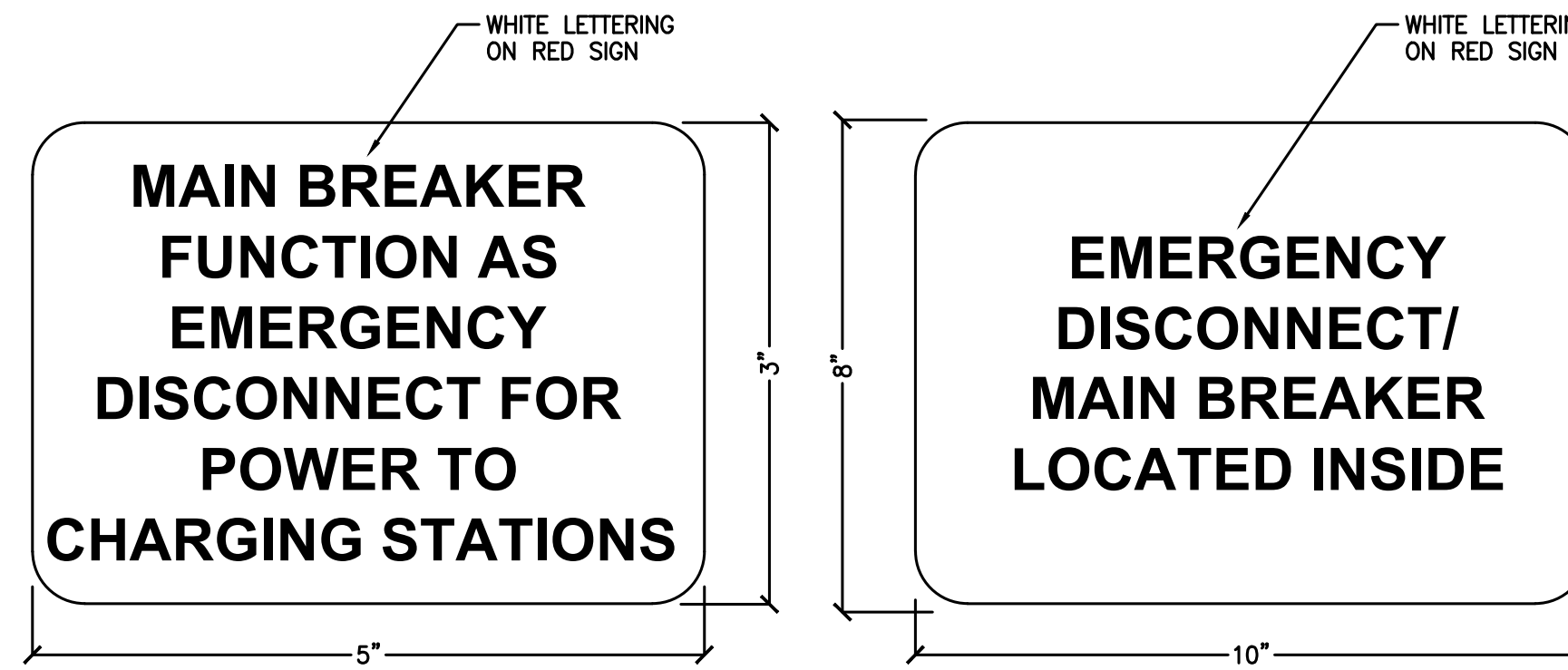
SHEET NUMBER	D-2
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NOTES:

- BOLLARD IS FOR WARNING PURPOSES ONLY.
- CONTRACTOR TO CUT HOLE IN TOP OF PROVIDED BOLLARD COVER AND SMOOTH EDGES TO PREVENT CUT HAZARD
- CONTRACTOR TO PROVIDE (2) 6' LONG, 1/2" THICK FOAM STRIPS CROSSED OVER TOP OF STEEL PIPE TO STABILIZE SLIP COVER



A 6" WARNING BOLLARD WITH SIGN DETAIL
D-3 NO SCALE



- NOTES:**
- TO BE PLACED BY THE MAIN BREAKER INSIDE SWITCHBOARD.

- NOTES:**
- TO BE PLACED ON OUTSIDE OF SWITCHBOARD SECTION HOUSING THE MAIN BREAKER.

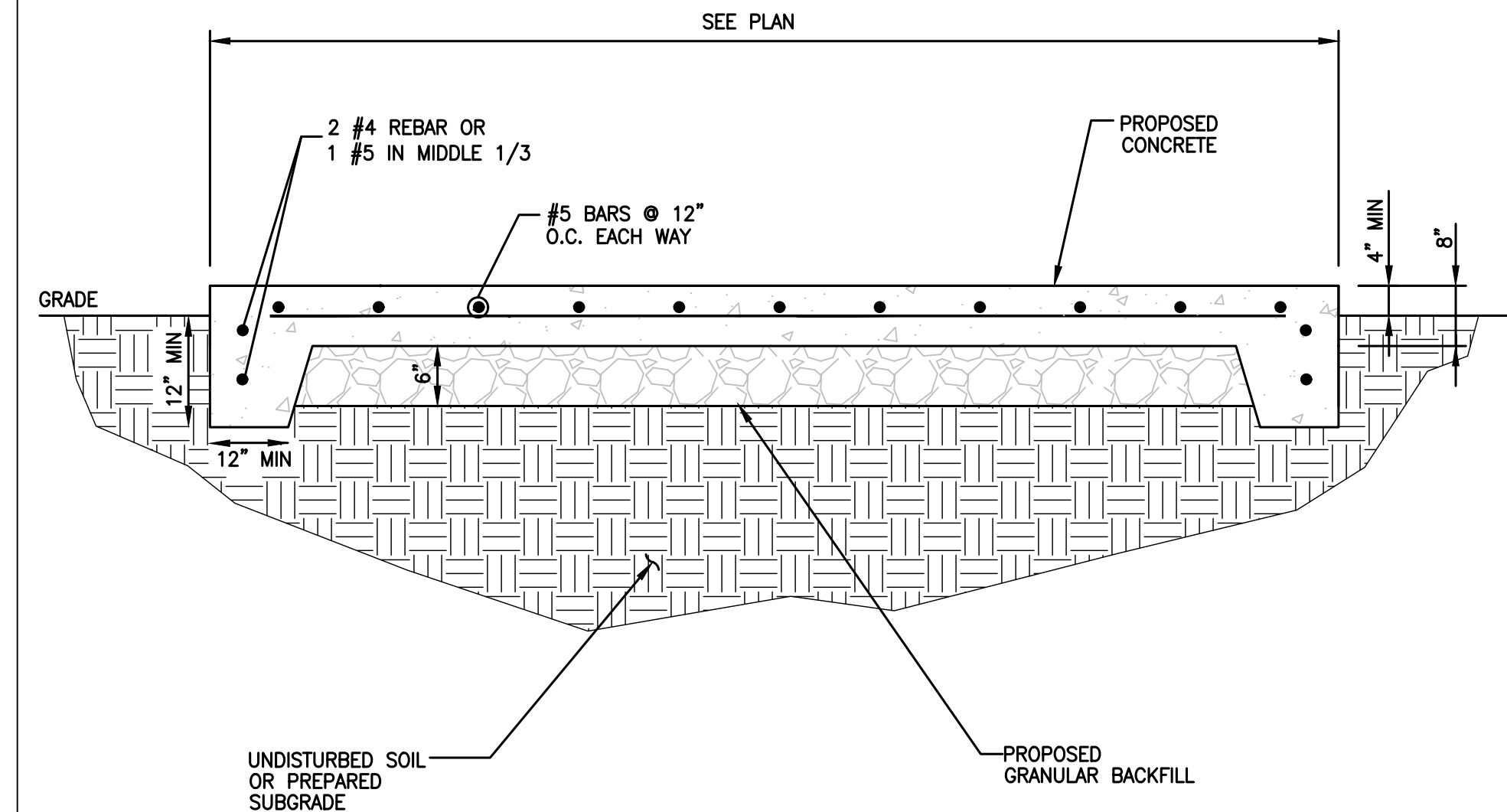


- NOTES:**
- TO BE PLACED ON CANOPY/POLE FACING E-STOP LOCATION.

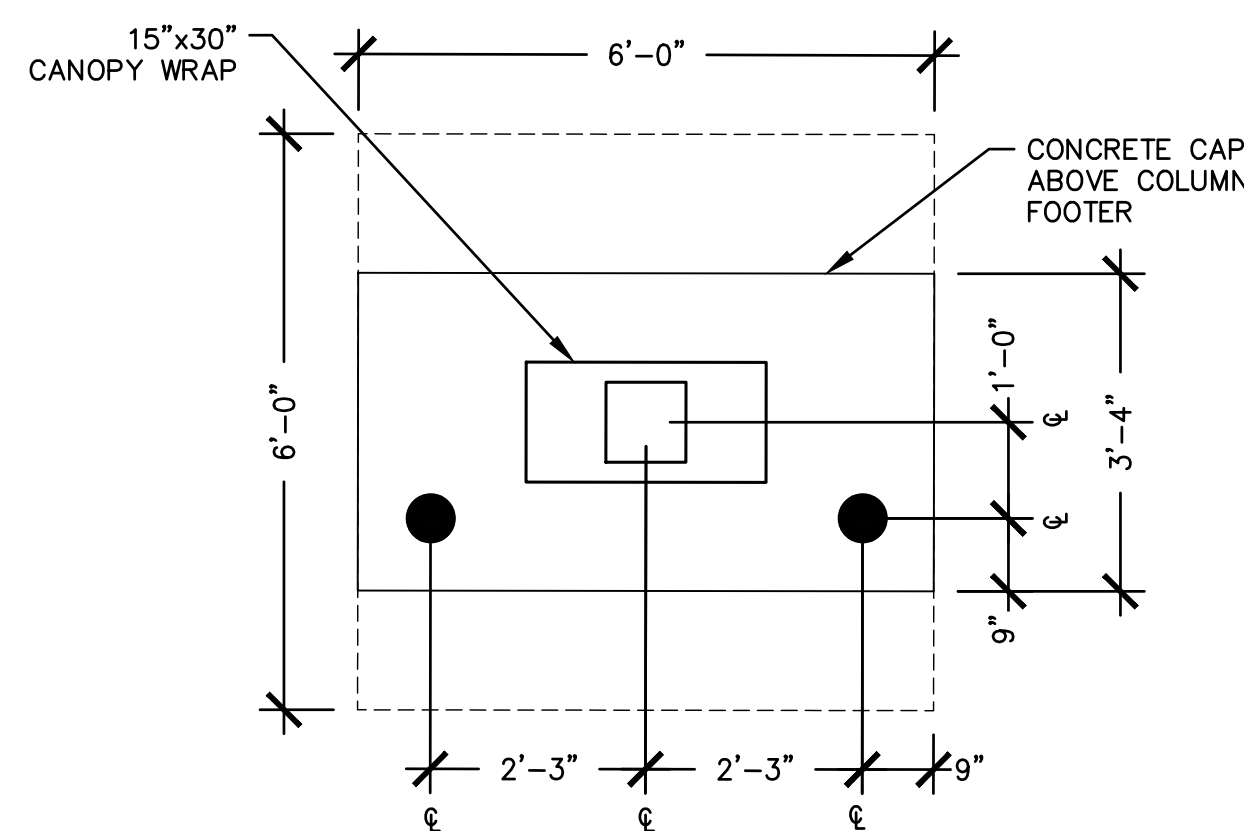


- NOTES:**
- TO BE PLACED AT E-TOP LOCATION.

B EMERGENCY DISCONNECT SIGN DETAILS
D-3 NO SCALE



C CONCRETE PAD DETAIL
D-3 NO SCALE



D CANOPY POST BOLLARD LAYOUT
D-3 NO SCALE

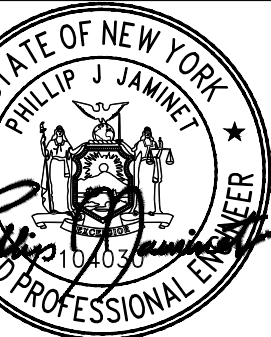
E NOT USED
D-3 NO SCALE



F SIGNAGE AROUND GEAR
D-3 NO SCALE

EVgo
FAST CHARGING

OWL
eMobility



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SHEET NUMBER
D-3

BUILDING CODES AND STANDARDS

- A. BUILDING CODE 2018 OF NEW YORK
- B. INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION AS ADOPTED AND MODIFIED BY THE BUILDING CODE OF NEW YORK
- C. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE)—MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7)
- D. FOR ALL OTHER REFERENCED STANDARDS, USE THE LATEST EFFECTIVE VERSION.

DESIGN CRITERIA AND LOADS

- A. RISK CATEGORY II
- B. DEAD LOADS
 - 1. DISPENSER 706 LB
 - 2. POWER CABINET 1184 LB
- C. SNOW LOADS
 - 1. GROUND SNOW LOAD (P) 15 PSF
 - 2. SNOW LOAD IMPORTANCE FACTOR (I_s) 1.0
- D. WIND LOADS
 - 1. BASIC WIND SPEED (V_{ULT}) 107 MPH
 - 2. BASIC WIND SPEED (V_{ASD}) 83 MPH
 - 3. WIND EXPOSURE C
- E. EARTHQUAKE DESIGN DATA
 - 1. SEISMIC OCCUPANCY CATEGORY II
 - 2. SEISMIC IMPORTANCE FACTOR (I_e) 1.0
 - 3. S_s 0.162
 - 4. S_v 0.094
 - 5. SITE CLASS D (ASSUMED)
 - 6. SPECTRAL RESPONSE COEFFICIENTS
 - a. S_{DS} 0.173
 - b. S_{DI} 0.150
 - 7. SEISMIC DESIGN CATEGORY C

GENERAL REQUIREMENTS

- A. VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING WORK OR FABRICATING MATERIALS. NOTIFY STRUCTURAL ENGINEER OF RECORD (SEOR) OF ANY DISCREPANCIES BEFORE PROCEEDING WITH ANY PHASE OF WORK
- B. DO NOT SCALE DRAWINGS FOR THE PURPOSE OF ESTABLISHING DIMENSIONS.
- C. CIVIL/STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND ALL OTHER DRAWINGS INCLUDING BUT NOT LIMITED TO ELECTRICAL AND EQUIPMENT MANUFACTURER DRAWINGS.
- D. DETAILS LABELED "TYPICAL" ON DRAWINGS APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SUCH DETAILS APPLY WHETHER OR NOT THE DETAILS ARE REFERENCED AT EACH LOCATION. NOTIFY EXISTING STRUCTURES AND FACILITIES WHICH ARE TO REMAIN.
- E. BEFORE PROCEEDING WITH ANY WORK WITHIN THE PROJECT AREA, THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH EXISTING STRUCTURE AND OTHER CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY BRACINGS, SHORING AND OTHER SAFEGUARDS TO MAKE ALL PARTS OF EXISTING STRUCTURES AND FACILITIES IN A SAFE CONDITION DURING THE PROCESS OF DEMOLITION AND CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF EXISTING STRUCTURES AND FACILITIES WHICH ARE TO REMAIN.
- F. THE CONTRACT CIVIL/STRUCTURAL DOCUMENTS REPRESENT THE FINISHED PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION. PROVIDE ALL MEASURES REQUIRED TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING THE CONSTRUCTION; INCLUDING BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, FORMS AND SCAFFOLDING,

SHORING OF RETAINING WALLS AND OTHER TEMPORARY SUPPORTS AS REQUIRED. COMPLY WITH APPLICABLE REQUIREMENTS OF OSHA AND OTHER GOVERNING BODIES HAVING JURISDICTION AT THE SITE.

G. LOADINGS FOR ELECTRICAL EQUIPMENT ARE BASED ON THE UNITS SHOWN ON THE ELECTRICAL DRAWINGS, ANY CHANGES IN TYPE, SIZE OR NUMBER OF PIECES OF EQUIPMENT SHALL BE REPORTED TO THE SEOR FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.

FOUNDATIONS

- A. GEOTECHNICAL REPORT NOT PROVIDED. FOUNDATION DESIGN IS BASED ON THE ASSUMED BEARING CAPACITY LISTED BELOW BASED ON IBC TABLE 1806.2 FOR TYPE ML AND CL MATERIAL
- B. NET ALLOWABLE SOIL BEARING CAPACITY1500 PSF
- C. THE CONTRACTOR SHALL PROVIDE AND OPERATE DEWATERING EQUIPMENT AND BE RESPONSIBLE FOR MAINTAINING EXCAVATIONS AND WORK AREAS IN DRY CONDITION.
- D. ARRANGE FOR A QUALIFIED PERSON TO MONITOR CUT AND FILL OPERATIONS, PERFORM FIELD DENSITY TESTS, AND INSPECT BEARING AREAS FOR FOUNDATIONS PRIOR TO PLACEMENT OF ANY CONCRETE.
- E. ALL BACKFILL AND TRENCHING OPERATIONS SHALL COMPLY WITH ALL CURRENT AND APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES, INCLUDING OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
- F. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE SHORING OF THE NEW AND EXISTING CONSTRUCTION DURING CONSTRUCTION OPERATIONS IN ORDER TO PREVENT ANY DAMAGE DUE TO BACKFILLING AND TRENCHING.
- G. DO NOT PLACE FOOTINGS OR SLABS AGAINST SUBGRADE CONTAINING FREE WATER, FROST OR ICE.
- H. PROTECT PIPES AND CONDUITS RUNNING THROUGH WALLS AND SLABS WITH 1/2 INCH EXPANSION MATERIAL. AT CONFLICTS BETWEEN BURIED PIPES AND CONDUITS THROUGH FOUNDATIONS, CONTACT SEOR.
- I. COORDINATE WITH ELECTRICAL CONTRACTOR AND ELECTRICAL ONE-LINE DIAGRAM FOR PROPER BONDING OF THE FOOTING REINFORCEMENT TO THE GROUNDING SYSTEM.

CAST-IN-PLACE CONCRETE

- A. STANDARDS
 - 1. ACI 117R/117R— SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS AND COMMENTARY.
 - 2. ACI 301— SPECIFICATIONS FOR STRUCTURAL CONCRETE
 - 3. ACI 305R— HOT WEATHER CONCRETE
 - 4. ACI 306.1— STANDARD SPECIFICATIONS FOR COLD WEATHER CONCRETING
 - 5. ACI 308.1 STANDARD SPECIFICATIONS FOR CONCRETE CURLING
 - 6. ACI 318/318R— BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY
 - 7. CONCRETE REINFORCING STEEL INSTITUTE (CRSI)— MANUAL OF STANDARD PRACTICE.
- B. MATERIALS
 - 1. CONCRETE MIXTURES SHALL BE THE NORMAL WEIGHT TYPE (145 PCF) AND DESIGNED PER ACI 318 USING THE FOLLOWING PARAMETERS, LIMIT FLY ASH AND SLAG 25% OF TOTAL CEMENT.
 - 28 DAY COMPRESSIVE STRENGTH (f'c) 5,000 PSI
 - CATEGORY F CLASS F3 (AIR ENTRAINMENT REQUIRED)
 - CATEGORY S CLASSS0
 - CATEGORY W CLASSW1
 - CATEGORY C CLASSC2
 - 2. NO CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CHLORIDES SHALL BE USED IN ANY CONCRETE. MIX MATERIALS SHALL COMPLY WITH THE FOLLOWING:
 - PORTLAND CEMENTASTM C150
 - FLY ASHASTM C618 CLASS C OR F
 - SLAG CEMENTASTM C969 GRADE 100 OR 120

- NORMAL WEIGHT AGGREGATEASTM C33 CLASS 3S
- WATERASTM C94 POTABLE
- AIR-ENTRAININGASTM C260

- 3. CHEMICAL ADMIXTURES MUST BE CERTIFIED BY MANUFACTURER TO BE COMPATIBLE WITH OTHER ADMIXTURES AND THAT DO NOT CONTRIBUTE WATER-SOLUBLE CHLORINE IONS EXCEEDING THOSE ALLOWED IN HARDENED CONCRETE.
- 4. STEEL REINFORCEMENT:
 - i. DEFORMED BARS, ASTM A615 GRADE 60.
 - ii. DEFORMED BARS, ASTM A706, GRADE 60 WELDABLE.
 - iii. CHAIRS SHALL BE GALVANIZED STEEL OR PLASTIC.
- 5. ACCESSORIES
 - iv. DOWELS AND ANCHOR GROUT: SIKADUR 32 HI MOD OR APPROVED EQUAL.
 - v. CONTRACTION OR CONSTRUCTION JOINT SEALANT: SIKADUR 51 SL OR APPROVED EQUAL.
 - vi. ISOLATION JOINT SEALANT: SIKAFLEX-1a OR APPROVED EQUAL.
 - vii. PREMOULDED EXPANSION JOINT FILLER(PMF): HOMEX 300 OR APPROVED EQUAL.

C. EXECUTION

- a. UNLESS NOTED OTHERWISE MAINTAIN THE FOLLOWING CONCRETE COVER FOR REINFORCEMENT.
 - CONCRETE CAST AGAINST EARTH3 INCHES
 - CONCRETE EXPOSED TO THE WEATHER:
 - #5 AND SMALLER BARS1 1/2 INCHES
 - #6 AND LARGER BARS2 INCHES
- b. STEEL REINFORCING SHALL BE FABRICATED ACCORDING TO CRSI.
- c. ALL REINFORCEMENT SHALL BE SUPPORTED AND HELD IN PLACE BY MANUFACTURED STEEL WIRE OR PLASTIC BAR SUPPORTS IN ACCORDANCE WITH CRSI. USE OF ANY OTHER MATERIALS WITHOUT WRITTEN AUTHORIZATION BY THE SEOR IS PROHIBITED.
- d. PROVIDE STANDARD 90 DEGREE HOOKS IN ACCORDANCE WITH ACI 318 UNLESS NOTED OTHERWISE.
- e. RESHAPING OF BARS AFTER INITIAL BENDING IS NOT PERMITTED.
- f. PROVIDE CLASS "B" REINFORCEMENT SPLICES FOR CONTINUOUS REINFORCEMENT, REINFORCEMENT SPLICES AND DEVELOPMENT LENGTHS SHALL BE ACCORDANCE WITH ACI318.
- g. WHERE REQUIRED AND UNLESS NOTED OTHERWISE, PROVIDE DOWELS TO MATCH SIZE AND SPACING OF MAIN REINFORCEMENT.
- h. DO NOT WELD REINFORCEMENT IN THE FIELD UNLESS SPECIFIED ON THE DRAWINGS OR APPROVED BY SEOR.
- i. FORMWORK MAY BE OMITTED FOR FOUNDATIONS PROVIDED EARTH IS FIRM AND STABLE AND CONCRETE SURFACES WILL NOT BE EXPOSED TO PUBLIC VIEW. EXCAVATIONS SHALL BE CUT NEAT AND ACCURATE TO SIZE. LOOSE AND UNSTABLE MATERIALS SHALL BE COMPACTED OR REMOVED.
- j. COORDINATE PLACEMENT OF CAST-IN-PLACE EMBEDMENTS AND ANCHOR RODS WITH A TEMPLATE, SECURELY ATTACH EMBEDMENT ITEMS TO FORMWORK OR REINFORCING.
- k. PLACE CONCRETE IN ONE LAYER OR IN HORIZONTAL LAYERS OF SUCH THICKNESS SO THAT NO NEW CONCRETE WILL BE PLACED ON CONCRETE THAT HAS HARDENED ENOUGH TO CAUSE SEAMS OR PLACES OF WEAKNESS (COLD JOINTS)
- l. PROVIDE CONSTRUCTION, CONTRACTION AND ISOLATION JOINTS AS INDICATED ON DRAWINGS. HORIZONTAL CONSTRUCTION JOINTS ARE NOT ALLOWED UNLESS SPECIFICALLY NOTED OR APPROVED BY SEOR.

FUEL CANOPY

A. THE DESIGN OF THE FUELING STRUCTURE AND FOUNDATIONS SHALL BE BY THE MANUFACTURER AS A DELEGATED ENGINEERING SUBMITTAL SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT.

- m. SURFACE OF CONCRETE CONSTRUCTION JOINTS SHALL BE CLEANED AND LAITANCE REMOVED. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, ALL CONSTRUCTION JOINTS SHALL BE WETTED AND STANDING WATER REMOVED.
- n. UNLESS NOTED OTHERWISE, CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4 INCH.
- o. BEGIN CURING PROCEDURES IMMEDIATELY AFTER COMPLETING PLACEMENT AND CONTINUE FOR AT LEAST SEVEN (7) ACCEPTABLE DAYS. CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES AND MECHANICAL INJURY.
- p. UNCOATED ALUMINUM MATERIALS ARE NOT PERMITTED TO BE EMBEDDED IN CONCRETE.
- q. NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE MIXTURE ON SITE UNLESS WATER IS WITHHELD AT THE PLANT AND NOTED AS SUCH ON THE BATCH TICKET, ONLY THE AMOUNT WITHHELD MAY BE ADDED ON SITE.
- r. ALL CONCRETE SHALL BE VIBRATED BY MECHANICAL VIBRATORS.



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SHEET TITLE: BUILDING CODES AND STANDARDS

SHEET NUMBER: D-4

REV	DESCRIPTION	BY	DATE

SWITCHBOARD GENERAL NOTES – SERIES 2
PRODUCT DESCRIPTION & RATINGS

Power System Data
480Y/277V 3Ph 4W 60Hz / 3 Phase Wye
Solidly Grounded
System Short Circuit Current Rating: 65KA RMS
Incoming Section 1 Cable Through the Bottom Left of Lineup

Bus System Data
1200A Tin/Aluminum & Silver/Copper Main Bus
(2) .25x2.00 IN/6x51 mm Al Bus Bar Per Phase
(2) .25x3.38 IN/6x86mm Al Bus Bar Per Neutral
(1) .25x1.50 IN/6x38 mm Al Ground Bus

Enclosure Data
Type 3R Free Standing
Exterior Paint Color: ANSI 49
Front Accessibility Only Required
Handling: Rollers
Strip Heater w. Thermostat & Humidistat
Rodent barriers
1.5H Corrosion Resist Base Channels
Steel Bottom Closure Plate

Estimated Shipping Weight
Shipping Split 1 779.00 lbs / 353.35 kgs
Shipping Split 2 872.00 lbs / 395.54 kgs
Complete Lineup 1651.00 lbs / 748.89 kgs

Code Standards
UL1 Deadfront and suitable for use as Service Entrance when not more than six (6) disconnecting means are provided.

Rating Nameplates
ST1 – Service Entrance – Section Bus 1200A
ST2 – Deadfront – Section Bus 1200A

PRODUCT INFORMATION

Wiring
All wiring to be Machine Tool Wire type

Instruction Bulletins
Reference 80043-055 For Handling, Installation, Anchoring, Inspection And Maintenance Information

Product Accessories/Options
Seismic Qualified
24V Trip Unit Display Power
Locally Mounted ERMS Switch

JOB NAME: EVgo Switchboard Standardization	EQUIPMENT DESIGNATION: 1200A No UCT
JOB LOCATION: (O2C)	EQUIPMENT TYPE: QED-2 Switchboard
DATE: March 28 2023	DRAWING TYPE: GENERAL NOTES
DRAWING STATUS: QUOTE	DWG# FQ-3923714-112455359-01

DUAL DIMENSIONS: INCHES MILLIMETERS

REV	DESCRIPTION	BY	DATE

TOP VIEW – FRONT

FLOOR PLAN – FRONT

NOTE: ALL DEVICES REQUIRING DRILLING OR INSERTION IN MOUNTING PAD SUCH AS CONDUIT, ANCHORING STUDS, SLEEVE INSERTS, ETC. SHOULD BE INSTALLED BEFORE SETTING EQUIPMENT IN PLACE.

NOTE: A MINIMUM OF 2.00/[51] CLEARANCE BEHIND THE SWITCHBOARD IS REQUIRED FOR TOP COVER OVERHANG.

JOB NAME: EVgo Switchboard Standardization	EQUIPMENT DESIGNATION: 1200A No UCT
JOB LOCATION: (O2C)	EQUIPMENT TYPE: QED-2 Switchboard
DATE: March 28 2023	DRAWING TYPE: SIDE TOP VIEW & FLOOR PLAN
DRAWING STATUS: QUOTE	DWG# FQ-3923714-112455359-01

DUAL DIMENSIONS: INCHES MILLIMETERS

REV	DESCRIPTION	BY	DATE

LEGEND

- ERMS Energy Reduction Maintenance SW
- GF Ground Fault
- PLA Padlock Attachment-Fixed
- SHR Strip Heater
- TU 24V Trip Unit Display Power

JOB NAME: EVgo Switchboard Standardization	EQUIPMENT DESIGNATION: 1200A No UCT
JOB LOCATION: (O2C)	EQUIPMENT TYPE: QED-2 Switchboard
DATE: March 28 2023	DRAWING TYPE: ONE LINE
DRAWING STATUS: QUOTE	DWG# 00-3923714-112455359-01

DUAL DIMENSIONS: INCHES MILLIMETERS

REV	DESCRIPTION	BY	DATE

POWER STYLE QED-2 SWITCHBOARD SERIES 2

SECT NO	CKT NO	IMD /CMD CONFIG	DEVICE /FRAME RATING	TRIP AMP	FUSE /TRIP	#P	DESIGNATION	N/P	LUG/WIRE INFORMATION				ACCESSORIES / NOTES
									QTY	PHASE	WIRE RANGE	QTY	
1	-	-	Strip Heater	-	-	-	-	-	-	-	-	-	SHR
1	M1	FIX	RK 1200A Plug A 100%	1200A	P-LSIG	3P	-	No	4	3/0 - 750 kcmil	4	3/0 - 750 kcmil	GF PLA SHR TU
2	-	-	Strip Heater	-	-	-	-	-	-	-	-	-	SHR
2	1	4.5 in	LI 600A (NOTE 1)	300A	S-LI	3P	-	No	1	#14 - 1/0 AWG	1	#14 - 1/0 AWG	
2	2	6 in	LI 600A (NOTE 1)	300A	S-LI	3P	-	No	2	4/0 - 500kcmil	2	4/0 - 500kcmil	
2	3	6 in	LI 600A (NOTE 1)	300A	S-LI	3P	-	No	2	4/0 - 500kcmil	2	4/0 - 500kcmil	

△

JOB NAME: EVgo Switchboard Standardization	EQUIPMENT DESIGNATION: 1200A No UCT
JOB LOCATION: (O2C)	EQUIPMENT TYPE: QED-2 Switchboard
DATE: March 28 2023	DRAWING TYPE: SCHEDULE
DRAWING STATUS: QUOTE	DWG# 00-3923714-112455359-01

DUAL DIMENSIONS: INCHES MILLIMETERS

NOTES

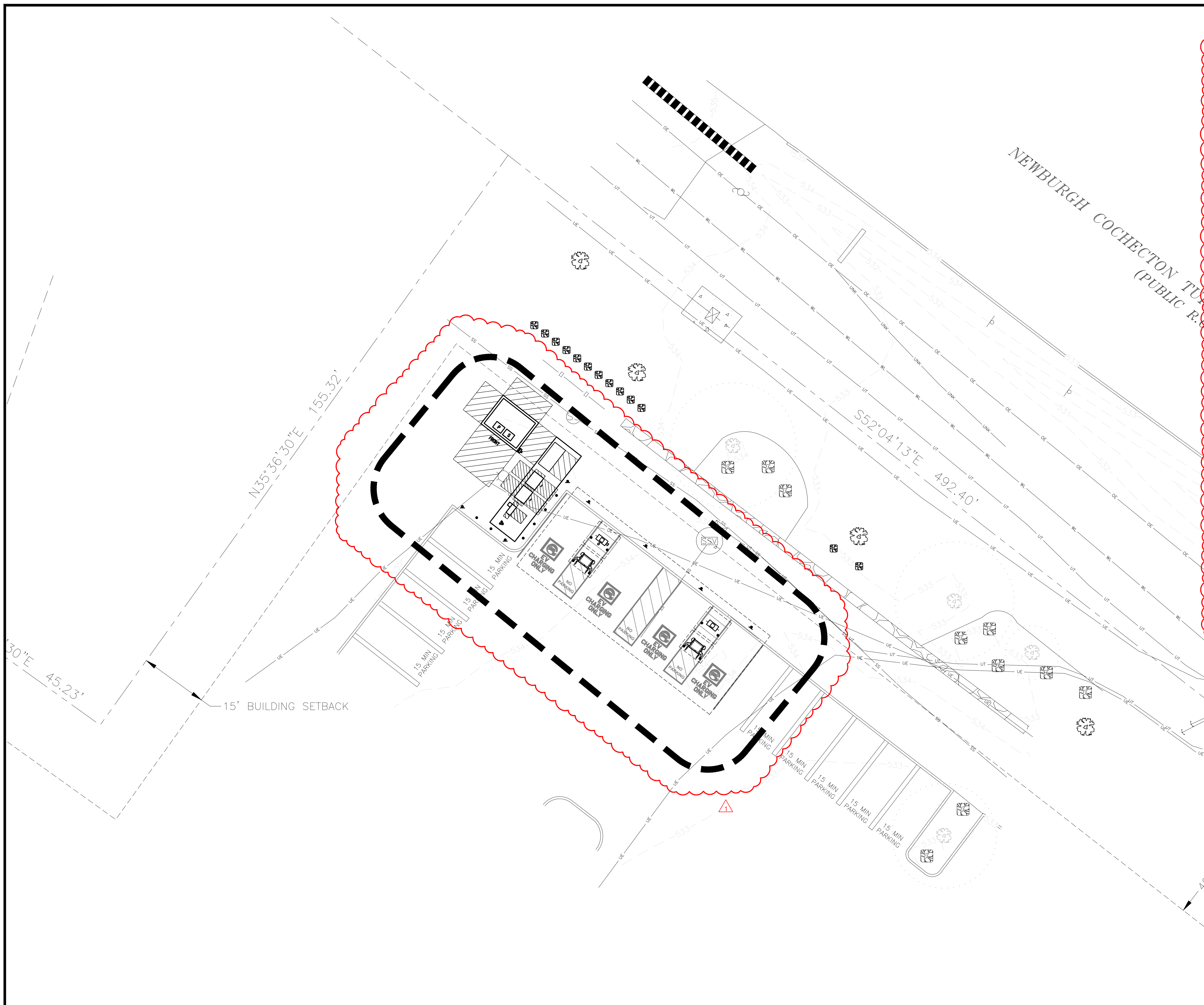
1. FIELD TO ADJUST THE TRIP SETTING FOR ROOF FEEDER BREAKERS TO 600A

NO.	DATE	REVISION DESCRIPTION
0	2023/02/22	ISSUED FOR REVIEW
1	2024/05/23	UPDATED PER ALL COMMENTS AND TO LATEST STANDARDS

DATE: 02/22/2023

SHEET TITLE: SWITCHBOARD CUT SHEETS

SHEET NUMBER: D-5



GENERAL NOTES

1. THE UTILITY DESIGN DETAILS SUMMARIZED ON THIS SHEET ARE FOR PROPERTY OWNER REVIEW. THE CONTRACTOR SHALL REFERENCE THE UTILITY DESIGN PACKAGE, PROVIDED WITH THE "ISSUED FOR CONSTRUCTION" DRAWINGS. THE CONTRACTOR SHALL INSTALL THE UTILITY RELATED SCOPE OF WORK PER UTILITY CONSTRUCTION SPECIFICATION REQUIREMENTS.
2. UTILITY EQUIPMENT INSTALLATION AND PREP WORK AND TERMINATION OF SERVICE CONDUCTORS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER AT TIME OF PRE-CONSTRUCTION MEETING TO ENSURE ACCURACY OF INSTALLATIONS
3. FOR GENERAL NOTES AND SYMBOL LIST, SEE E-6
4. BEFORE BID SUBMISSION AND COMMENCING WORK, CONTRACTOR SHALL FIELD INSPECT SCOPE OF PROJECT, AND SUBMIT A REQUEST FOR INFORMATION TO THE ENGINEER FOR ANY DISCREPANCIES OR INCOMPATIBILITIES FOUND BETWEEN DESIGN AND ACTUAL CONDITIONS.
5. ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO COVER. PROVIDE APPROVED ACCESS DOORS OR PLATES AS REQUIRED IN AREAS WHERE UNOBSTRUCTED ACCESS TO BOX OR OUTLET IS NOT POSSIBLE
6. EQUIPMENT LOCATIONS, WHERE SHOWN, ARE APPROXIMATE. FIELD CONTRACTOR SHALL VERIFY AND COORDINATE WITH OWNER, INCLUDING OTHER CONSTRUCTION RELATED INFORMATION.
7. ALL WORKS SHALL BE PERFORMED AS PER LATEST EDITION OF NEC, AND LATEST LOCAL UTILITY SPECIFICATIONS.



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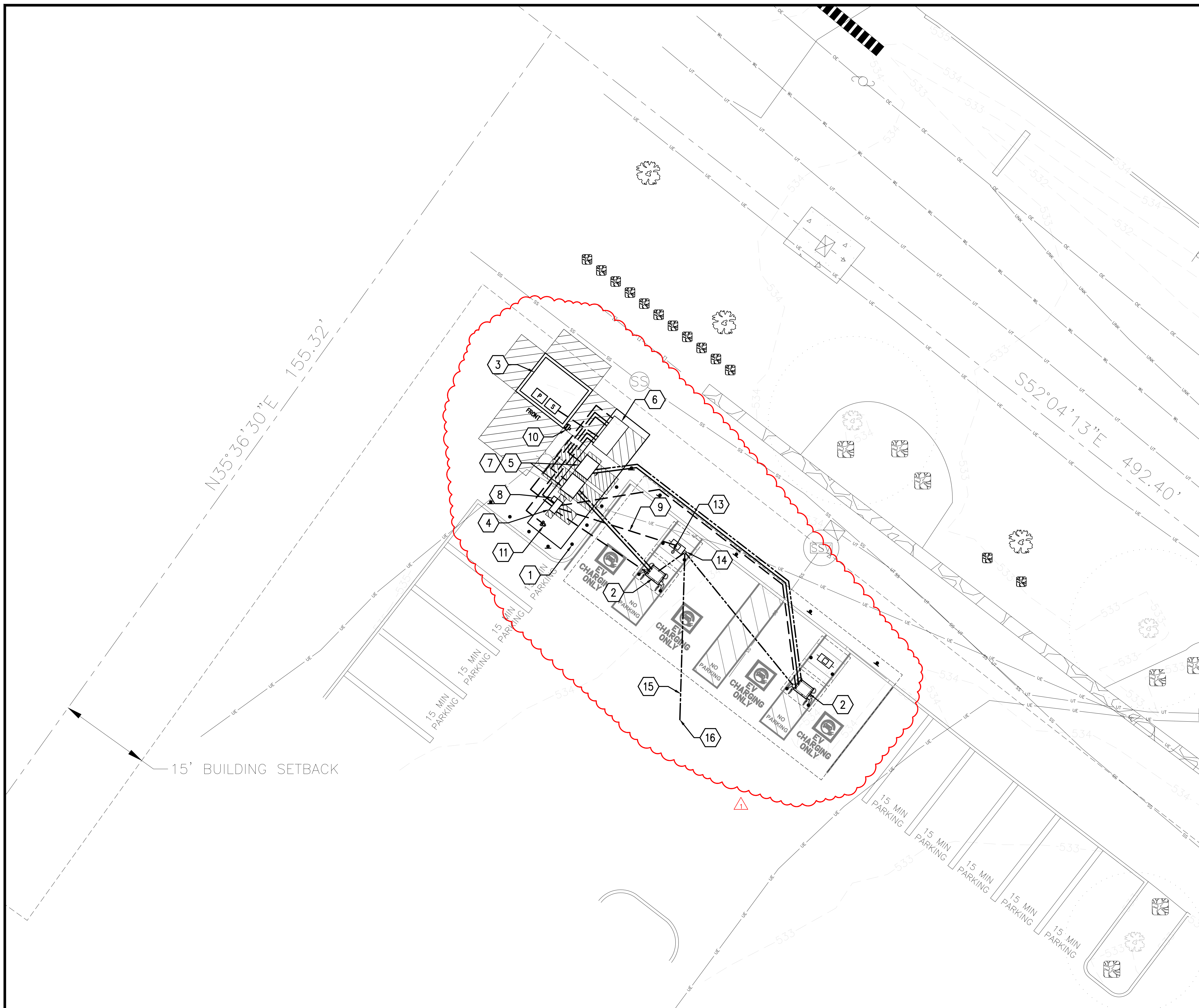
NO.	DATE	REVISION DESCRIPTION
0	2023/02/22	ISSUED FOR REVIEW
1	2024/05/28	UPDATED PER ANY COMMENTS AND TO LATEST STANDARDS

DATE: 02/22/2023

SHEET TITLE: ELECTRICAL UTILITY PLAN

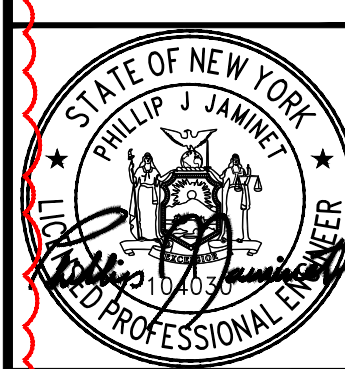
SHEET NUMBER: E-1

ELECTRICAL UTILITY PLAN
SCALE: 3/32" = 1'-0"



PROPOSED EQUIPMENT SCHEDULE

QTY	EQUIPMENT	DESCRIPTION
2	DELTA 350kW POWER CABINET	350kW EV CHARGER CABINET
2	DELTA 350kW DISPENSER	350kW EV CHARGE DISPENSER
1	MINI POWER ZONE	15KVA TRANSFORMER W/ 480-120V/208V PANEL BOARD
1	SWITCHGEAR	1200A BUS 480Y/277V, 3Ø, 4W 65KAIC, NEMA 3R
1	UTILITY TRANSFORMER	TBD



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GENERAL NOTES

- CONDUIT ROUTING IS DIAGRAMMATICALLY SHOWN ON PLANS AND ARE ONLY APPROXIMATIONS. THE EXACT LOCATION AND ROUTING PATHS SHALL BE FIELD VERIFIED AND INSTALLED PER JURISDICTIONAL REQUIREMENTS PRIOR TO DIGGING TRENCHING.
- ALL ELECTRICAL WORK AND RELATED ACTIVITIES PERFORMED ONSITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC), LOCAL CODES AND APPLICABLE STANDARDS.
- UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER TO ENSURE ACCURACY OF INSTALLATIONS.

KEYNOTES

- PROPOSED LOCATION OF BOLLARD
- PROPOSED DELTA 350kW EV CHARGER DISPENSER
- PROPOSED LOCATION FOR UTILITY TRANSFORMER
- PROPOSED MINI POWER ZONE
- PROPOSED DELTA 350kW POWER CABINET
- PROPOSED SWITCHGEAR ASSEMBLY (OWNER FURNISHED-CONTRACTOR-INSTALLED)
- PROVIDE CONDUIT(S) AND WIRING PER POWER RISER, REFER TO DRAWING E-3 FOR ADDITIONAL INFORMATION
- LIGHTING CONTROL PANEL LC1
- PROPOSED CONDUIT TO LIGHTING AND RECEPTACLE
- PROPOSED METER
- PROPOSED E-STOP BUTTON (MAIN)
- RESERVED
- WEATHERPROOF RECEPTACLE (R1) - MOUNT 10' ABOVE GRADE
- POS/SECURITY PULL BOX
- (2) 1" CONDUITS W/ PULL STRINGS FROM POS/SECURITY PULL BOX FOR SECURITY COMMS AND POS COMS TO BUILDING PULL BOX (FIELD VERIFY LOCATION PRIOR TO INSTALLATION)
- BUILDING PULL BOX (FIELD VERIFY LOCATION PRIOR TO INSTALLATION)

CONDUIT LEGEND

- DC CONDUITS
- AC CONDUITS AND CONTROLS CONDUITS
- CONDUITS FOR COMMUNICATIONS

No.	Date	Description
0	2023/02/22	ISSUED FOR REVIEW
1	2024/05/28	UPDATED PER AIA COMMENTS AND TO LATEST STANDARDS

DATE	02/22/2023
SHEET TITLE	ELECTRICAL ENLARGED SITE PLAN

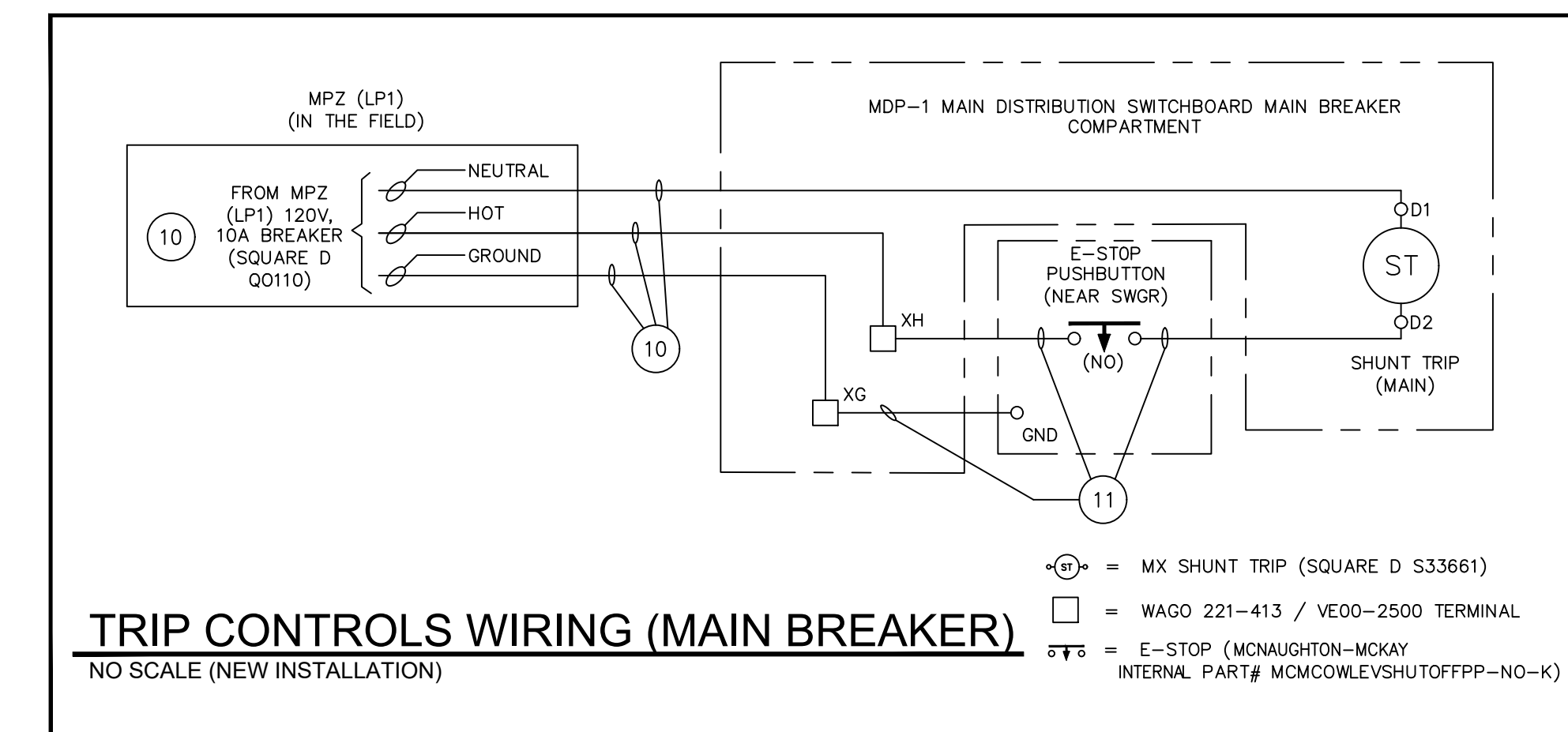
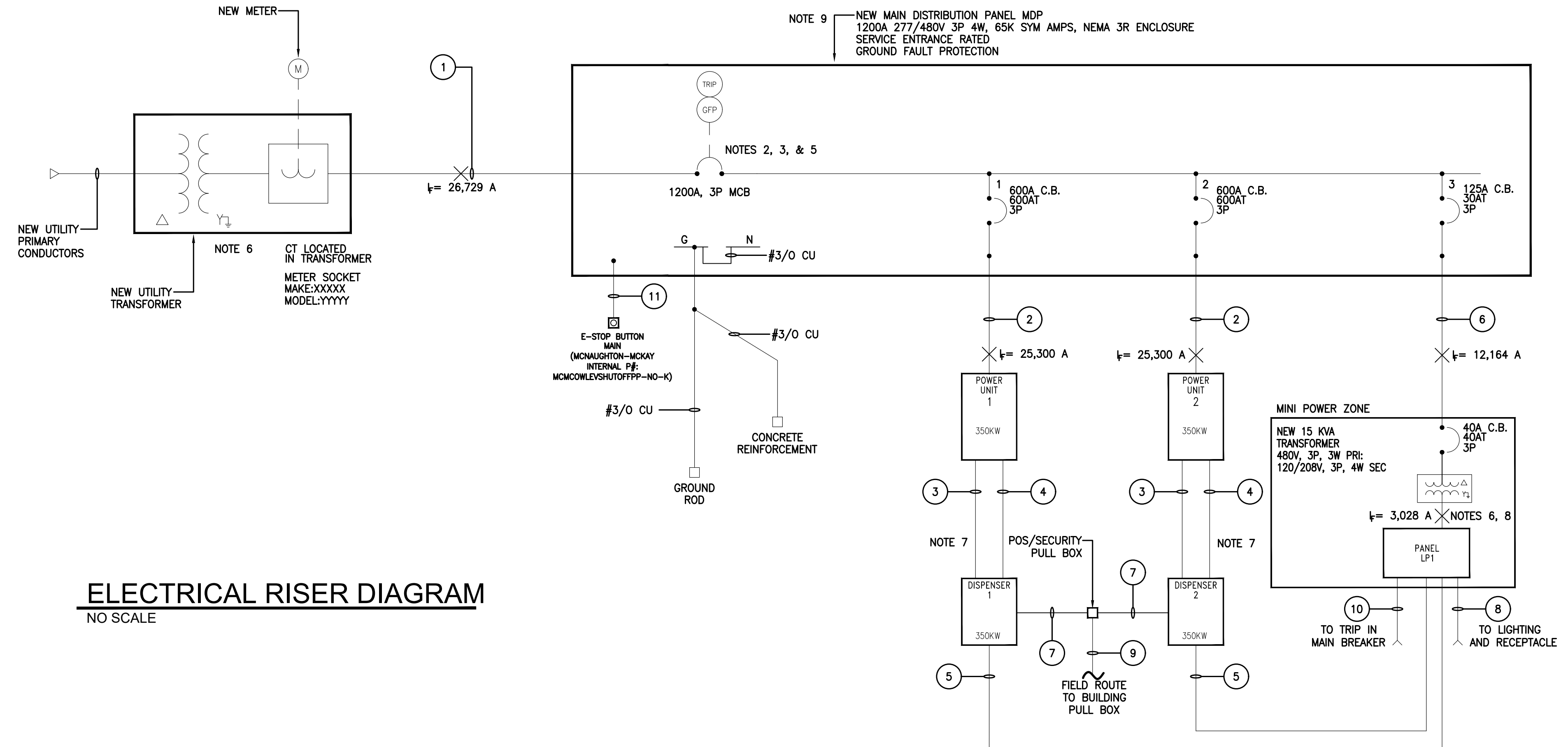
SHEET NUMBER
E-2

ELECTRICAL SITE PLAN
SCALE: 1/8" = 1'-0"

CONDUIT AND WIRING SCHEDULE			
	FROM	TO	CONFIGURATION
1	UTILITY TRANSFORMER (BY OTHERS)	480V SWITCHBOARD	(4) 600 KCMIL CU (THWN-2) IN EACH OF (3) 4" SCH 40 PVC CONDUIT
2	480V SWITCHBOARD	350 KW DELTA POWER UNIT	(3) 350 KCMIL CU (THWN-2) + (1) #1 AWG CU (THWN-2) EGC IN EACH OF (2) 3" SCH 40 PVC CONDUIT
3	350 KW DELTA POWER UNIT	DC DISPENSER (POST) DC POWER	(2) 350 KCMIL CU (THWN-2) 11V + (1) #1 AWG CU (THWN-2) EGC IN EACH OF (4) 5" SCH 40 PVC CONDUIT
4	350 KW DELTA POWER UNIT	DC DISPENSER (POST) COMMUNICATION	(1) OWNER PROVIDED COMM CABLE IN (1) 1-1/4" SCH 40 PVC CONDUIT
5	PANELBOARD 120/208V SECTION LP1	DC DISPENSER (POST) AUXILIARY POWER	(2) #10 AWG CU (THWN-2) + (1) #1 AWG CU (THWN-2) EGC IN (1) 1" SCH 40 PVC CONDUIT
6	480V SWITCHBOARD	TRANSFORMER/PANEL 480V-120/208V LP1	(3) #8 AWG CU (THWN-2) + (1) #10 AWG CU (THWN-2) EGC IN (1) 1" SCH 40 PVC CONDUIT
7	350 KW DELTA DISPENSER UNIT	POS/SECURITY PULL BOX	(1) 1" SCH 40 PVC CONDUIT WITH PULL WIRE
8	PANELBOARD 120/208V SECTION LP1	LIGHTING AND RECEPTACLE	SEE DWG E-8
9	POS/SECURITY PULL BOX	FIELD ROUTE TO BUILDING PULL BOX	(2) 1" SCH 40 PVC CONDUIT WITH PULL WIRES
10	PANELBOARD 120/208V SECTION LP1	MAIN BREAKER CONTROLS WITHIN SWITCHGEAR	(2) #14 AWG CU (THWN-2) + (1) #14 AWG CU (THWN-2) EGC IN EACH OF (1) 1" SCH 40 PVC CONDUIT
11	SWITCHGEAR MAIN BKR SECTION SHUNT MODULE & CONTROLS	E-STOP BUTTON	(2) #14 AWG CU (THWN-2) + (1) #14 AWG CU (THWN-2) EGC IN EACH OF (1) 1" SCH 40 PVC CONDUIT
12 NEVI ONLY	PANELBOARD 120/208V SECTION LP1 (NEVI ONLY)	EV DISPENSER TRIP CONTROLS WITHIN SWITCHGEAR FEEDER SECTION FOR 600A BKR (NEVI ONLY)	(6) #14 AWG CU (THWN-2) + (1) #14 AWG CU (THWN-2) EGC IN EACH OF (1) 1" SCH 40 PVC CONDUIT
13 NEVI ONLY	EV DISPENSER TRIP CONTROLS WITHIN SWITCHGEAR FEEDER SECTION FOR 600A BKR (NEVI ONLY)	EV DISPENSER E-STOP BUTTON (NEVI ONLY)	(4) #14 AWG CU (THWN-2) + (1) #14 AWG CU (THWN-2) EGC IN EACH OF (1) 1" SCH 40 PVC CONDUIT

SWBD#1B LOAD CALS - 480V				
LIGHTING	0.00	KVA X 125 %	=	0.0 KVA
RECEPTACLE TOTAL	6.60	KVA		
1ST	10.00	KVA X 100 %	=	6.6 KVA
REMAIN	0.00	KVA X 50 %	=	0.0 KVA
MOTORS TOTAL	0.00	KVA X 100 %	=	0.0 KVA
LARGEST		KVA X 125 %	=	0.0 KVA
REMAIN	0.00	KVA X 100 %	=	0.0 KVA
A/C	0.00	KVA X 100 %	=	0.0 KVA
HEATING	0.00	KVA X 100 %	=	0.0 KVA
LOCKED-OUT LOAD		KVA X 100 %	=	0.0 KVA
KITCHEN	0.00	KVA X 65 %	=	0.0 KVA
DATA PROCESSING	0.00	KVA x 85 %	=	0.0 KVA
MISCELLANEOUS (EV CHARGERS)	736.23	KVA X 125 %	=	920.3 KVA
TOTAL			=	1106.9 AMPS
			=	926.9 KVA
			=	1114.9 AMPS

- NOTES**
- METER PLACEMENT, CT CABINET AND FINAL SWITCHGEAR/DISTRIBUTION DESIGN TO BE COORDINATED ACCORDING TO UTILITY REQUIREMENTS. CONTRACTOR TO PROVIDE METER SOCKET (METER ENCLOSURE) PER LISTED ON LOCAL UTILITY'S APPROVED METER ENCLOSURE LIST.
 - THE MAIN CIRCUIT BREAKER IN THIS SWITCHGEAR SHALL BE 100% RATED.
 - PROVIDE GROUND FAULT PROTECTION (GFP) FOR EQUIPMENT PER NEC ARTICLE 230.95.
 - SEE UTILITY POWER MANUAL FOR ADDITIONAL INFORMATION.
 - THIS SWITCHGEAR IS INSTALLED WITH AN ENERGY REDUCTION MAINTENANCE SWITCH (ERMS) AT THE MAIN BREAKER FOR ARC FLASH MITIGATION PER NEC ARTICLE 240.87.
 - PER NEC TABLE 250.66 AND NEC ARTICLES 250.66 (A) AND (C), THE UTILITY TRANSFORMER GROUNDING ELECTRODE CONDUCTOR (GEC) SHALL BE 3/0 AWG COPPER AND THE MINI POWER ZONE GROUNDING ELECTRODE CONDUCTOR (GEC) SHALL BE #6 AWG COPPER.
 - THE DELTA 350KW DISPENSERS AND POWER CABINETS ARE CERTIFIED AS A SYSTEM. REGARDLESS OF WHAT TYPE OF PROTECTION IT IS, NO ADDITIONAL PROTECTION OR MEANS OF DISCONNECT WILL BE INSTALLED BETWEEN THE TWO UNITS.
 - THE MINI POWER ZONE AND ITS INTEGRAL COMPONENTS (TRANSFORMER, INTERCONNECTING CABLES, AND LIGHTING PANEL) ARE CERTIFIED AS A SYSTEM. THE 208 VOLT AMPERE INTERRUPTING CAPACITY (AIC) RATING IS SHOWN TO PORTRAY THE EQUIVALENT FAULT CURRENT ON THE LIGHTING PANEL. THE INTERRUPTING RATING OF 18KAIC IS FOR THE INTEGRAL LIGHTING PANEL ITSELF.
 - THE SERVICE EQUIPMENT SHALL BE FIELD MARKED IN COMPLIANCE WITH ALL REQUIREMENTS STATED IN NEC ARTICLES 110.24(A) AND 230.70(B).



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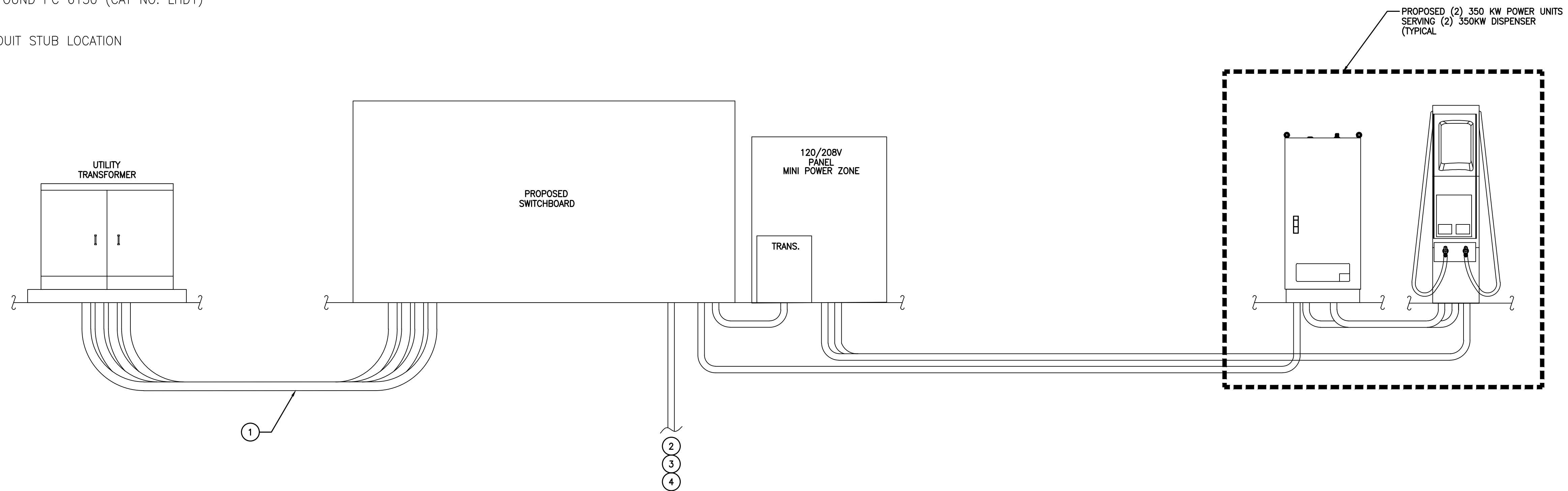
DATE: 02/22/2023

SHEET TITLE:
ELECTRICAL
SINGLE
LINE DIAGRAM

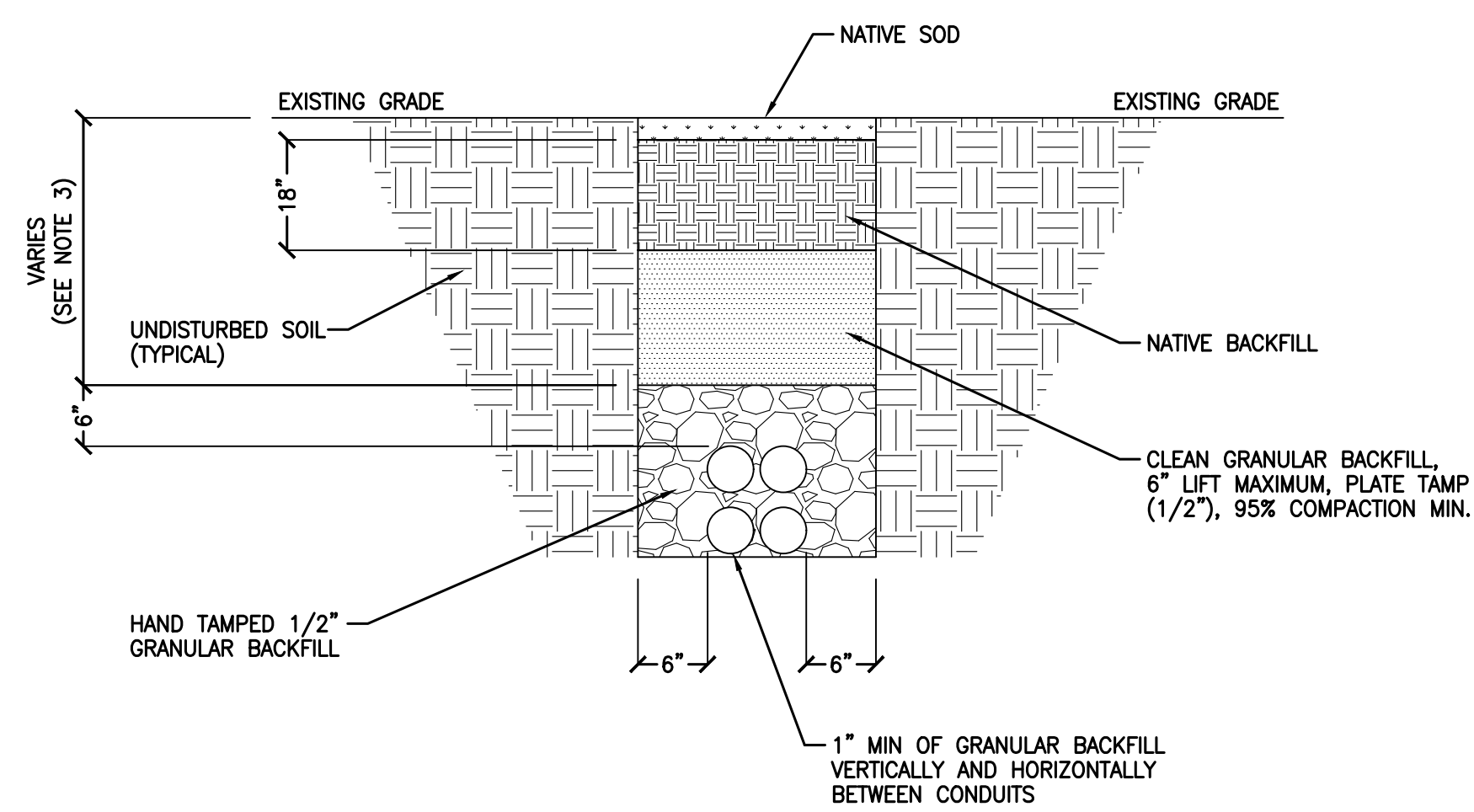
SHEET NUMBER:
E-3

NOTES

1. CONDUITS SHALL BE BURIED BELOW FROST LINE AND IN COMPLIANCE WITH LOCAL AND NATIONAL CODE REQUIREMENTS.
2. REFER TO CONDUIT AND WIRE SCHEDULE ON E-3 FOR CONDUIT AND WIRE REQUIREMENTS
3. INSTALL DOTTIE DUCT SEAL COMPOUND PC 6130 (CAT NO. LHD1) REQUIREMENTS
4. REFER TO SHEET E-2 FOR CONDUIT STUB LOCATION



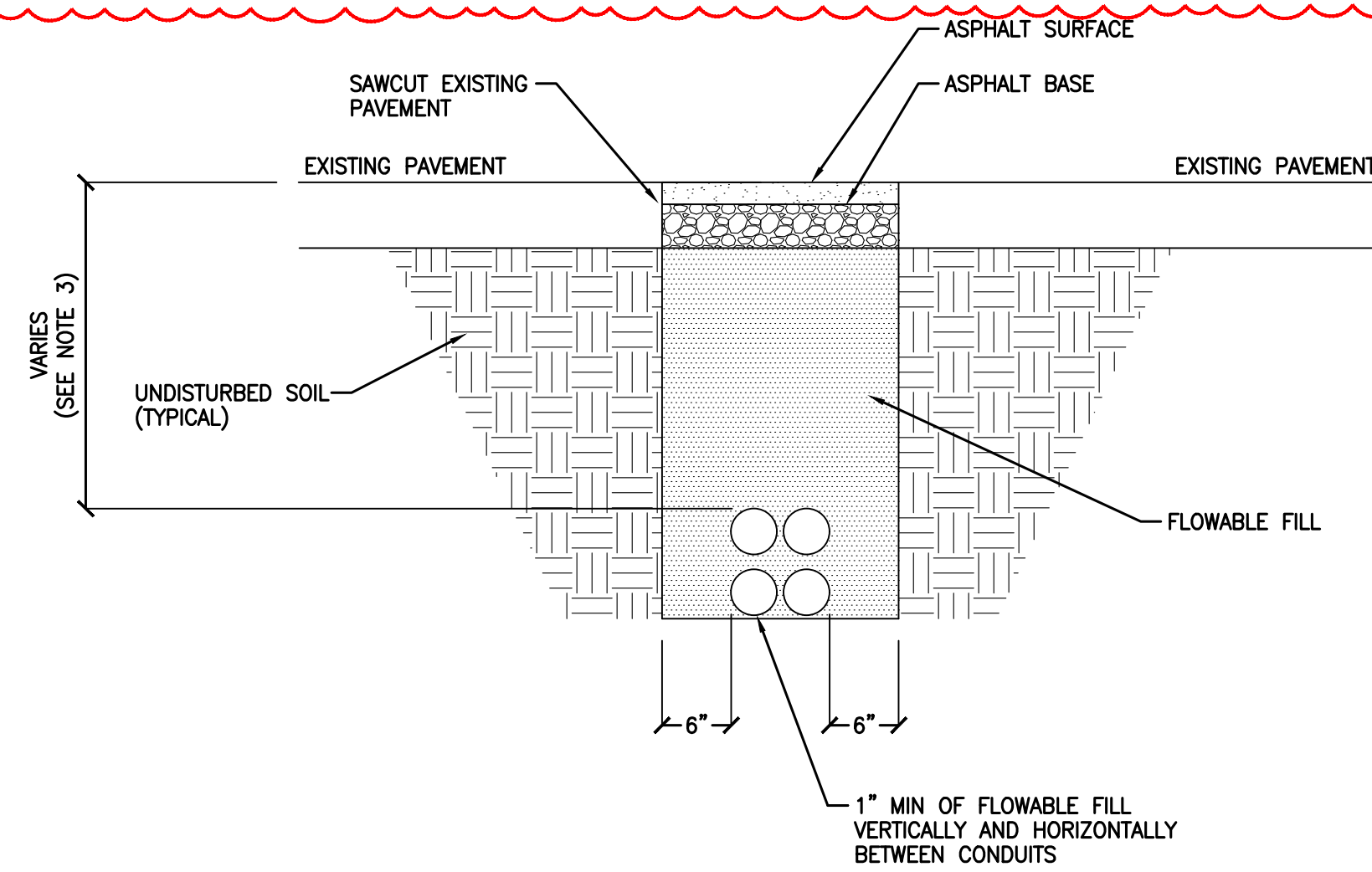
A CONDUIT ELEVATION - POWER DISTRIBUTION, POWER UNIT, DISPENSER (FOR REFERENCE ONLY)
E-4 NO SCALE



NOTES:

1. ANY EXCAVATION LEFT OPEN NEEDS TO BE FENCED, BARRICADED, OR TRENCH PLATED TO INSURE THE SAFETY OF THE GENERAL PUBLIC.
2. ANY PAVEMENT DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE CONSTRUCTION CONDITIONS OR BETTER.
3. TRENCH DEPTHS ARE REQUIRED TO BE 2'-0" MIN. OR 6" BELOW FROST LINE PER LOCAL JURISDICTION REQUIREMENTS.
4. EXACT NUMBER OF CONDUITS SHALL BE DETERMINED BY SHEET E-2 & E-3, EXACT CONDUIT PLACEMENT IN TRENCH SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD BASED ON PHYSICAL MEASUREMENTS AND JURISDICTIONAL REQUIREMENTS.

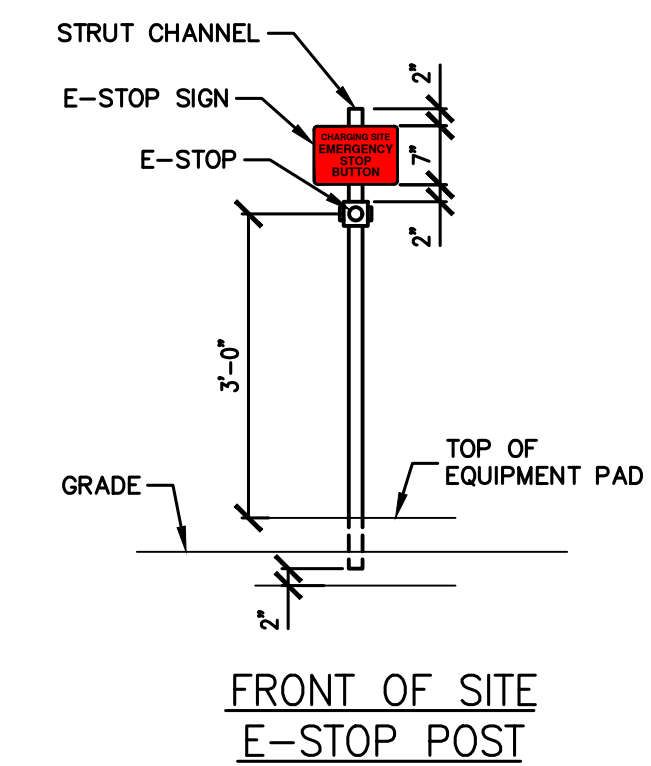
B TYPICAL NON-UTILITY CONDUIT UNDER SOIL TRENCH
E-4 NO SCALE



NOTES:

1. ASPHALT SHALL COMPLY WITH STANDARD DOT OR LOCAL JURISDICTION SPEC. FOR HMA SURFACE COURSE.
2. ANY EXCAVATION LEFT OPEN NEEDS TO BE FENCED, BARRICADED, OR TRENCH PLATED TO INSURE THE SAFETY OF THE GENERAL PUBLIC.
3. TRENCH DEPTHS ARE REQUIRED TO BE 2'-0" MIN. OR 6" BELOW FROST LINE PER LOCAL JURISDICTION REQUIREMENTS.
4. ANY PAVEMENT DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE CONSTRUCTION CONDITIONS OR BETTER.
5. EXACT NUMBER OF CONDUITS SHALL BE DETERMINED BY SHEET E-2 & E-3, EXACT CONDUIT PLACEMENT IN TRENCH SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD BASED ON PHYSICAL MEASUREMENTS AND JURISDICTIONAL REQUIREMENTS.

C TYPICAL NON-UTILITY CONDUIT UNDER ASPHALT TRENCH
E-4 NO SCALE



D EMERGENCY DISCONNECT DETAILS
E-4 NO SCALE

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DATE: 02/22/2023

SHEET TITLE: ELECTRICAL CONDUIT DETAILS

SHEET NUMBER: E-4

ELECTRICAL SPECIFICATIONS

260500 – GENERAL REQUIREMENTS

- A. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, LOCAL BUILDING CODE AND BUILDING MANAGEMENT RULES AND REGULATIONS. CONTRACTOR IS TO INFORM ENGINEER OF ANY EXISTING WORK OR MATERIALS THAT VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED AT CONTRACTOR'S EXPENSE BY THIS CONTRACTOR AND AT NO EXPENSE TO THE OWNER.
- B. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE EXISTING BUILDING CONSTRUCTION STANDARDS.
- C. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF WORK AND APPROXIMATE LOCATION OF EQUIPMENT. IF A CONFLICT OCCURS IN THE SPECIFICATIONS AND/OR ON THE DRAWINGS, THE MORE STRINGENT SITUATION SHALL APPLY.
- D. ANY EQUIPMENT, PARTS, MATERIALS, ACCESSORIES, OR LABOR THAT IS NECESSARY FOR PROPER PERFORMANCE OF THE ELECTRICAL WORK, ALTHOUGH NOT SPECIFICALLY MENTIONED HEREIN, OR SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED AS IF CALLED FOR IN DETAIL WITHOUT ADDITIONAL COST.
- E. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF THIS WORK. FINAL ACCEPTANCE SHALL BE DEFINED AS THE TIME THAT THE ELECTRICAL WORK IS TAKEN OVER AND ACCEPTED BY THE OWNER, AND IS UNDER CARE, CUSTODY, AND CONTROL OF THE OWNER. ENGAGE THE SERVICES OF VARIOUS MANUFACTURERS SUPPLYING THE EQUIPMENT FOR THE PROPER STARTUP AND OPERATION AND SERVICING OF THE EQUIPMENT.
- F. ALL MATERIALS SHALL BE NEW AND SHALL CONFORM TO THE STANDARDS OF THE UNDERWRITERS' LABORATORIES INC. MATERIALS SHALL BE FABRICATED IN ACCORDANCE WITH THE SPECIFICATIONS AND APPROVED RULES AND REGULATIONS OF NEMA AND SHALL BEAR THE UL INSPECTION LABEL. MATERIAL AND APPARATUS FOR LIKE SHALL BE BY THE SAME MANUFACTURER.
- G. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND CONTRACTOR'S SERVICES NECESSARY FOR COMPLETE, SAFE INSTALLATION OF ALL ELECTRICAL WORK. THE SCOPE OF WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - 1. PROVIDING OF LIGHT FIXTURES AND LAMPS INCLUDING EXIT AND EMERGENCY LIGHTING AND ALL ASSOCIATED COMPONENTS AND BRANCH CIRCUITING.
 - 2. PROVIDING OF NEW RACEWAY AND CONDUCTORS FOR LIGHTING AND POWER.
 - 3. CUTTING, CHANNELING AND CHASING REQUIRED TO ACCOMMODATE THE ELECTRICAL INSTALLATION AND ROUGH PATCHING.
 - 4. PROVIDING OF CONDUIT, JUNCTION BOXES, PULL BOXES, ETC., REQUIRED FOR THE AFOREMENTIONED EQUIPMENT.
 - 5. GROUNDING OF ALL EQUIPMENT AS REQUIRED BY NATIONAL ELECTRICAL CODE AND AS SHOWN ON THE DRAWINGS.
 - 6. PROVIDING RECEPTACLES, LIGHT SWITCHES, DISCONNECT SWITCHES, OUTLET BOXES, CONTACTORS AND OTHER WIRING DEVICES INCLUDING RELATED BRANCH CIRCUIT WIRING.
 - 7. PROVIDING ENGRAVED LAMICOID NAMEPLATES FOR NEW PANELBOARDS, SWITCHES, CABINETS, MOTOR STARTERS, ETC.
- J. FOLLOW THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION AIA DOCUMENT A201 LATEST EDITION, OR AS REQUIRED BY THE ARCHITECTS DOCUMENTS AND/OR ENGINEERS DOCUMENTS.
- K. SUBMIT SHOP DRAWINGS CERTIFIED BY ALL TRADES THAT COORDINATION HAS BEEN ESTABLISHED. SUBMIT ALL CERTIFIED EQUIPMENT CUTS WITH CONSTRUCTION WIRING DIAGRAMS. PROVIDE A MINIMUM OF SIX (6) COPIES OF 8-1/2"x11" SUBMISSIONS AND ONE (1) REPRODUCIBLE AND ONE (1) PRINT OF ALL DRAWINGS.
- L. CONTRACTOR SHALL REVISE DRAWINGS TO CONFORM TO RECORD DRAWINGS AND SUBMIT AS-BUILT CONDITION (DEVICES, EQUIPMENT, CIRCUITRY, ETC.), DRAWINGS UPON COMPLETION OF THE PROJECT.
- M. SUBSTITUTE MATERIAL OR MANUFACTURER OF EQUIPMENT SHALL NOT BE PERMITTED WITHOUT A FORMAL WRITTEN SUBMITTAL TO THE ENGINEER THAT INCLUDES ALL DIMENSIONAL, PERFORMANCE AND MATERIAL SPECIFICATIONS. ANY CHANGES IN LAYOUT, ELECTRICAL CHARACTERISTICS, STRUCTURAL REQUIREMENTS, OR DESIGN DUE TO THE USE OF A SUBSTITUTION SHALL BE SUBMITTED TO THE ENGINEER.
- N. DEFINITIONS:
 - 1. "ELECTRICAL CONTRACTOR", "THIS CONTRACTOR" – THE PARTY OR PARTIES HAVE BEEN DULY AWARDED THE CONTRACT FOR AND ARE THEREBY MADE RESPONSIBLE FOR THE ELECTRICAL WORK AS DESCRIBED HEREIN.
 - 2. "ARCHITECT", "ENGINEER", "OWNER'S REPRESENTATIVE" – THE PARTY OR PARTIES RESPONSIBLE FOR INTERPRETING, ACCEPTING AND OTHERWISE RULING ON THE PERFORMANCE UNDER THIS CONTRACT.
 - 3. "FURNISH" – PURCHASE AND DELIVER TO THE PROJECT SITE COMPLETE WITH EVERY NECESSARY APPURTENANCE AND SUPPORT, ALL AS PART OF THE ELECTRICAL WORK.
 - 4. "INSTALL" – UNLOAD AT THE DELIVERY POINT AT THE SITE AND PERFORM EVERY OPERATION NECESSARY TO ESTABLISH SECURE MOUNTING INSTALLATION AND CORRECT OPERATION AT THE PROPER LOCATION IN THE PROJECT, ALL AS PART OF THE ELECTRICAL WORK.
 - 5. "PROVIDE" – "FURNISH" AND "INSTALL"
 - 6. "RELOCATE" – MOVE EXISTING EQUIPMENT/DEVICES/FIXTURE AND ALL ACCESSORIES AS REQUIRED, INCLUDING THE EXTENSION OF EXISTING OR PROVIDING NEW CIRCUIT/CONDUCTORS/WIRING AS REQUIRED.
 - 7. "REMOVE" – DISMANTLE AND CART AWAY FROM SITE INCLUDING ALL RELATED ACCESSORIES. ALL OTHER EQUIPMENT AND OPERATIONS IN ANY WAY EFFECTED BY THE REMOVAL IS TO REMAIN IN FULL OPERATION. PROVIDE ALL NECESSARY COMPONENTS TO MAINTAIN SUCH OPERATION.
- S. ACCEPTABLE MANUFACTURERS:
 - DISCONNECT SWITCHES: SIEMENS, GE OR SQUARE "D"
 - FUSES: BUSSMAN, GOULD SHAWMUTT
 - RACEWAY: NATIONAL WIRE PRODUCTS, TRIANGLE OR REPUBLIC
 - WIRE/CABLE: ROME PHELPS DOGGE, GENERAL CABLE, SIMPLEX
 - PANELBOARDS: SIEMENS, GE OR SQUARE "D".
 - JUNCTION/PULL BOXES: APPLETON ELECTRIC, CROUSE HINDS OR O.Z./ GEDNEY CO.
 - FIRE STOP MATERIAL: HILTI, 3M (NOTE: MATERIAL MUST BE ACCEPTABLE TO LOCAL AHJ)
 - FITTINGS, COUPLINGS, BUSHINGS, CONNECTORS: OZ GEDNEY, BURNDY, NEPCO, THOMAS AND BETTS

260519 – WIRE AND CABLE

- A. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN-2 OR XHHW-2 INSULATED AS SPECIFIED. ALL CONDUCTORS SHALL HAVE 600 VOLT AC RATED OR 1,000 VOLT DC RATED INSULATION UNLESS SPECIFIED DIFFERENTLY. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID WIRE. CONDUCTORS AND #8 AWG AND LARGER SHALL BE STRANDED WIRE.

- B. METAL CLAD CABLE (TYPE MC) IS NOT ALLOWED.
- C. BRANCH CIRCUIT WIRE SIZE: THE MINIMUM WIRE SIZE FOR BRANCH CIRCUIT SHALL BE #12 AWG EXCEPT 120 VOLT CIRCUITS OVER 80 FEET IN LENGTH SHALL BE 10# AWG. REFER TO DRAWINGS FOR FURTHER WIRE SIZING INFORMATION.
- D. PROVIDE ALL BRANCH CIRCUITS WITH DEDICATED GROUND WIRES.
- G. PROVIDE FLAMEPROOF IDENTIFICATION TAGS IN ALL JUNCTION BOXES, PULL BOXES AND PANELBOARDS FOR ALL FEEDERS, BRANCH CIRCUIT AND CONTROL WIRING. TAGS SHALL IDENTIFY CONDUCTOR SIZES, SOURCE AND TERMINATION POINTS.
- H. INSTALL NO MORE THAN 3 BRANCH CIRCUITS IN ONE CONDUIT OR HOMERUN UNLESS OTHERWISE NOTED.

260526 – GROUNDING AND BONDING OF ELECTRICAL SYSTEMS

- A. SERVICE: PROVIDE COMPLETE SYSTEM OF GROUND CONDUCTORS, ELECTRODES, AND ACCESSORIES TO EFFECTIVELY AND PERMANENTLY GROUND ELECTRIC SYSTEM.
- B. EQUIPMENT: GROUND NON-CURRENT CARRYING METAL PARTS OF THE ELECTRICAL SYSTEM. PROVIDE A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR WITH ALL FEEDERS AND BRANCH CIRCUITS, SIZED IN ACCORDANCE WITH THE OVER CURRENT PROTECTIVE DEVICE SERVING THAT FEEDER OR BRANCH CIRCUIT.

260533 – RACEWAY

- A. CONDUIT FOR BRANCH CIRCUIT SHALL BE PVC SCH. 40 WITH COMPRESSION FITTINGS SIZED PER DRAWING, 3/4" MINIMUM. (MAXIMUM 3 CIRCUITS PER HOMERUN EXCEPT AS NOTED).
- B. FLEXIBLE STEEL CONDUIT MAY BE USED ONLY FOR:
 - 1. SHORT CONNECTIONS WHERE RIGID CONDUIT IS IMPRACTICABLE.
 - 2. FOR FINAL CONNECTION TO MOTOR TERMINAL BOX, TRANSFORMERS AND OTHER VIBRATING EQUIPMENT: WITH POLYVINYL SHEATHING AND GROUND CONDUCTOR. MINIMUM LENGTH 18 IN (457.2mm). WITH SLACK. CONNECT GROUND CONDUCTOR TO ENCLOSURE OR RACEWAY AT EACH END.
 - 3. FOR EXPANSION JOINT CROSSINGS, CROSS AT RIGHT ANGLES AND ANCHOR ENDS.
 - 4. CONNECT GROUND CONDUCTOR TO ENCLOSURE OR RACEWAY AT EACH END.
- C. EXPANSION FITTINGS: INSTALL AT RIGHT ANGLES WITH CLIP CENTERED IN EXPANSION JOINT. PROVIDE LENGTH OF RUNS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- D. RACEWAYS PASSING THROUGH FIRE-RATED CONSTRUCTION: SEAL OPENING WITH FIRE SEALANT AS REQUIRED TO MAINTAIN THE EXISTING FIRE RATING.
- E. PROVIDE FISH OR PULL WIRE IN ALL EMPTY CONDUITS OVER 10 FEET (3048mm) LONG.
- F. MAINTAIN GROUND CONTINUITY OF ALL INTERRUPTED RACEWAYS WITH GROUND CONDUCTOR.
- G. ALL WIRING WITHIN ELECTRICAL CLOSET AND IN BUILDINGS CORE CEILINGS SHALL BE INSTALLED IN CONDUIT.
- H. INSTALL ACCESSIBLE JUNCTION AND PULLBOXES CLEAR OF OTHER TRADES AND SUPPORTED FROM BUILDING STRUCTURE INDEPENDENT OF CONDUIT.
- I. OUTDOORS: APPLY RACEWAY PRODUCTS AS SPECIFIED BELOW UNLESS OTHERWISE INDICATED:
 - 1. EXPOSED CONDUIT: GRC, RNC-TYPE EPC-40-PVC, RNC-TYPE EPC-80-PVC.
 - 2. CONCEALED CONDUIT, ABOVEGROUND: GRC, EMT, RNC-TYPE EPC-40-PVC.
 - 3. UNDERGROUND CONDUIT: RNC-TYPE EPC-40-PVC/TYPE EPC-80-PVC, DIRECT BURIED, CONCRETE ENCASED.

260534 – PULL BOXES, JUNCTION BOXES AND OUTLET BOXES

- J. PULLBOXES, JUNCTION BOXES AND OUTLET BOXES SHALL BE MANUFACTURED FROM GALVANIZED INDUSTRY STANDARD GAUGE SHEET STEEL.
- K. PROVIDE PULL BOXES AND JUNCTION BOXES IN LONG STRAIGHT RUNS OF RACEWAY TO ASSURE THAT CABLES ARE NOT DAMAGED WHEN THEY ARE PULLED, TO FULFILL REQUIREMENTS AS TO THE NUMBER OF BENDS PERMITTED IN RACEWAY BETWEEN CABLE ACCESS POINTS, THE ACCESSIBILITY OF CABLE JOINTS AND SPLICES, AND THE APPLICATION OF CABLE SUPPORTS.
- L. PULLBOXES AND JUNCTION BOXES SHALL BE SIZED SO THAT THE MINIMUM BENDING RADIUS CRITERIA SPECIFIED FOR THE WIRES AND CABLE ARE MAINTAINED.
- M. ALL EQUIPMENT, DEVICE BOXES, JUNCTION BOXES, PULLBOXES AND OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO THE BOX. IF NECESSARY AND APPROVED BY ARCHITECT, PROVIDE ACCESS DOOR OR COVERPLATES IN AREAS WHERE UNOBSTRUCTED ACCESS IS NOT POSSIBLE.
- N. USE WEATHERPROOF BOXES, JUNCTION BOXES AND DEVICES FOR ALL REQUIRED WEATHERPROOF INSTALLATION.

260573 – OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY

- A. COMPUTER SOFTWARE DEVELOPERS. PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
 - 1. SKM SYSTEMS ANALYSIS, INC.
 - 2. ESA, INC.
 - 3. CCI CYME.
 - 4. EDSA MICRO CORPORATION.
 - 5. OPERATION TECHNOLOGY, INC.
- B. CALCULATE THE MAXIMUM AVAILABLE SHORT-CIRCUIT CURRENT IN AMPERES RMS SYMMETRICAL AT CIRCUIT BREAKER POSITIONS OF THE ELECTRICAL POWER DISTRIBUTION SYSTEM. THE CALCULATION SHALL BE FOR A CURRENT IMMEDIATELY AFTER INITIATION AND FOR A THREE-PHASE BOLTED SHORT CIRCUIT.
- C. CALCULATIONS TO VERIFY INTERRUPTING RATINGS OF OVERCURRENT PROTECTIVE DEVICES SHALL COMPLY WITH IEEE 141.

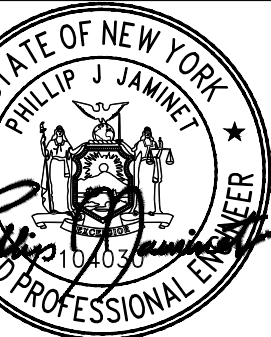
- D. PERFORM COORDINATION STUDY USING APPROVED COMPUTER SOFTWARE PROGRAM. PROVIDE A WRITTEN REPORT USING RESULTS OF FAULT-CURRENT STUDY. COMPLY WITH IEEE 399.
 - 1. CALCULATE THE MAXIMUM AND MINIMUM 1/2-CYCLE SHORT-CIRCUIT CURRENTS.
 - 2. CALCULATE THE MAXIMUM AND MINIMUM INTERRUPTING DUTY (5 CYCLES TO 2 SECONDS) SHORT-CIRCUIT CURRENTS.
 - 3. CALCULATE THE MAXIMUM AND MINIMUM GROUND-FAULT CURRENTS.
- E. COMPLY WITH IEEE 241 RECOMMENDATIONS FOR FAULT CURRENTS AND TIME INTERVALS.
- F. TRANSFORMER PRIMARY OVERCURRENT PROTECTIVE DEVICES:
 - 1. DEVICE SHALL NOT OPERATE IN RESPONSE TO THE FOLLOWING:
 - 1.a. INRUSH CURRENT WHEN FIRST ENERGIZED.
 - 1.b. SELF-COOLED, FULL-LOAD CURRENT OR FORCE-AIR-COOLED, FULL-LOAD CURRENT, WHICHEVER IS SPECIFIED FOR THAT TRANSFORMER.
 - 1.c. PERMISSIBLE TRANSFORMER OVERLOADS ACCORDING TO IEEE C57.96 IF REQUIRED BY UNUSUAL LOADING OR EMERGENCY CONDITIONS.
 - 2. DEVICE SETTINGS SHALL PROTECT TRANSFORMERS ACCORDING TO IEEE C57.12.00, FOR FAULT CURRENTS.
- G. CONDUCTOR PROTECTION: PROTECT CABLES AGAINST DAMAGE FROM FAULT CURRENTS ACCORDING TO ICEA P-32-382, ICEA P-45-482, AND CONDUCTOR MELTING CURVES IN IEEE 242.

260574 – ARC-FLASH HAZARD ANALYSIS STUDY

- A. THE CONTRACTOR SHALL FURNISH AN ARC FLASH HAZARD ANALYSIS STUDY PER THE REQUIREMENTS SET FORTH IN NFPA 70E – STANDARD FOR SAFETY IN THE WORKPLACE. THE ARC FLASH HAZARD ANALYSIS SHALL BE PERFORMED ACCORDING TO IEEE 1584 EQUATIONS THAT ARE PRESENTED IN NFPA70E-2004, ANNEX.
- B. THE FLASH PROTECTION BOUNDARY AND THE INCIDENT ENERGY SHALL BE CALCULATED AT ALL SIGNIFICANT LOCATIONS IN THE ELECTRICAL DISTRIBUTION SYSTEM (SWITCHBOARDS, PANELBOARDS, BUSWAY AND SPLITTERS) WHERE WORK COULD BE PERFORMED ON ENERGIZED PARTS.
- C. SAFE WORKING DISTANCES SHALL BE BASED UPON THE CALCULATED ARC FLASH BOUNDARY CONSIDERING AN INCIDENT ENERGY OF 1.2 CAL/CM².
- D. ARC FLASH CALCULATIONS SHALL BE BASED ON ACTUAL OVERCURRENT PROTECTIVE DEVICE CLEARING TIME. MAXIMUM CLEARING TIME WILL BE CAPPED AT 2 SECONDS BASED ON IEEE 1584-2002 SECTION B.1.2. WHERE IT IS NOT PHYSICALLY POSSIBLE TO MOVE OUTSIDE OF THE FLASH PROTECTION BOUNDARY IN LESS THAN 2 SECONDS DURING AN ARC FLASH EVENT A MAXIMUM CLEARING TIME BASED ON THE SPECIFIC LOCATION SHALL BE UTILIZED.
- E. CONTRACTOR SHALL PROVIDE A 3.5" (91MM) X 5" (129MM) THERMAL TRANSFER TYPE LABEL OF HIGH ADHESION POLYESTER FOR EACH WORK LOCATION ANALYZED.
- F. ALL LABELS WILL BE BASED ON RECOMMENDED OVERCURRENT SETTINGS AND WILL BE PROVIDED AFTER THE RESULTS OF THE ANALYSIS HAVE BEEN PRESENTED TO THE OWNER AND AFTER ANY SYSTEM CHANGES, UPGRADES, OR MODIFICATIONS HAVE BEEN INCORPORATED IN THE SYSTEM.
- G. THE LABEL SHALL INCLUDE THE FOLLOWING INFORMATION, AT A MINIMUM:
 - 1. LOCATION DESIGNATION.
 - 2. NOMINAL VOLTAGE.
 - 3. FLASH PROTECTION BOUNDARY.
 - 4. HAZARD RISK CATEGORY.
 - 5. INCIDENT ENERGY.
 - 6. WORKING DISTANCE.
 - 7. ENGINEERING REPORT NUMBER, REVISION NUMBER AND ISSUE DATE.
- H. LABELS SHALL BE MACHINE PRINTED, WITH NO FIELD MARKINGS.
 - 1. FOR EACH SWITCHBOARD AND PANELBOARD, ONE ARC FLASH LABEL SHALL BE PROVIDED.
- I. THE WORKPLACE ELECTRICAL SAFETY STANDARD SHALL BE FOLLOWED FOR THE ARC-FLASH CALCULATION, STUDIES AND ARC-FLASH LABELS AS THE MAIN STANDARD.

GENERAL NOTES (FOR NEVI SITES ONLY)

- A. THIS PROJECT INCLUDES INSTALLATION OF ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE) SPECIFICALLY DC FAST CHARGERS. ENSURE CONSTRUCTION IS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION DETAILS AND REQUIREMENTS OF THE P3 AGREEMENT.
- B. THE NEVI DEVELOPER SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ELECTRICAL UTILITY THE TRANSFORMER AND TRANSFORMER PAD VAULT DELIVERY TIMING, SIZING, AND TYPE, IN ADDITION TO ANCILLARY REQUIRED ELECTRICAL METERING AND SERVICE EQUIPMENT.



P85335 - PILOT TRAVEL CENTER 394
ELECTRIC VEHICLE CHARGING
239 ROUTE 17K
NEWBURGH, NY 12550

NO.	REVISION DESCRIPTION	ISSUED FOR REVIEW	DATE
0			2023/02/22
1	UPDATED PER AIA COMMENTS AND TO LATEST STANDARDS		2024/05/28

DATE	02/22/2023
SHEET TITLE	ELECTRICAL SPECIFICATIONS

SHEET NUMBER	E-5
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REVISION DESCRIPTION	
ISSUED FOR REVIEW	
UPDATED PER AHI COMMENTS AND TO LATEST STANDARDS	

NO.	DATE
0	2023/02/22
1	2024/05/23

DATE: 02/22/2023

SHEET TITLE

EV POWER & DISPENSER STATIONS CUTSHEETS

SHEET NUMBER

E-7

Travel Faster with High Power Charger

Delta's High Power Charger 350kW offers the fastest charging time than any other charger. It is ideally suited in highway rest stop, traditional fuel station and fleet charging due to its high power of up to 350kW, equal load distribution and simultaneous charging features, enabling charging of 2 vehicles at once. High power efficiency and the ability to share power from power cabinet between two dispensers, enable a reduction in cost of ownership. It also offers a user friendly design with LED status light visible from a distance, and a 15 inch display. Delta High Power Charger 350kW helps EV drivers shorten the time needed to get back on the road.



Feature Highlights

Up to 95% power efficiency for optimal charging service

- Max. 950V and 540A in 350kW high power charging
- Simultaneous charging service
- Supports CHAdeMo, CCS1 charging standard

Distributed space-saving architecture

- Distributed architecture enables you to install charger without replanning parking spaces
- Adopt power module for extension flexibility
- IP55 / NEMA3R ingress protection and IK10 enclosure protection

OCPP and network connectivity for seamless system integration

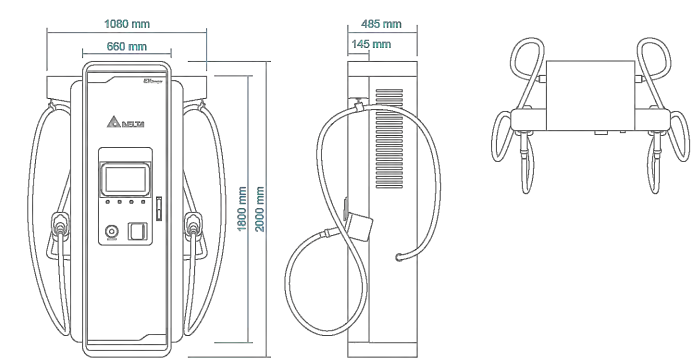
- Supports OCPP 1.6J (upgradable to OCPP 2.0)
- Built-in Ethernet, cellular (3G / 4G) network connectivity
- Integrable with commercial and management systems for improved operational efficiency

Specifications - Dispenser

Part Number	EIDD-U
Power Input	
Input Rating	480 Vac Three phase, 60Hz
Power Output	
Output Voltage	1000Vdc max
Output Interface	DC output option: single CCS1, double CCS1 or CCS1/CHAdeMO
DC Output Current	540A max. CCS1 (Liquid cooling); 200A max. CHAdeMO
DC Output Power	350kW max
Protection	
Protection	Over current, Under voltage, Over voltage, Residual current, Surge protection, Short circuit, Over temperature, Ground fault
Main Interface & Control	
Display	15 inch LCD Panel
Support Language	English (Other languages available upon request)
Push Buttons	Emergency Stop Button
User Authentication	ISO/IEC 14443A/B, NFC Payment: Integrated credit card reader
Charge option	Simultaneous charging
Communication	
Network Interface	Ethernet, Cellular
Protocol	OCPP v1.6-J, upgradable to OCPP v2.0 and ISO15118 upgradable
Environmental	
Operating Temperature	Operating at 22°F to +122°F (-30°C to +50°C)
Storage Temperature	-40°F to +185°F (-40°C to +83°C)
Humidity	< 95% relative humidity, non-condensing
Mechanical	
Ingress Protection	IP55/NEMA 3R
Enclosure Protection	IK10
Cooling	Forced air
Charging Cable Length	14.76 ft. (4.5 m)
Dimension (W x H x D)	42.5 x 78.7 x 19.1 inch (1080 x 2000 x 485 mm)
Weight	706 lb. (320 kg)
Regulation	
Certification	UL 2202, UL 2231
Installation	
Accessory	Cable management

Dimension and weight excluding plug and connector. Specifications are subject to change without notice.

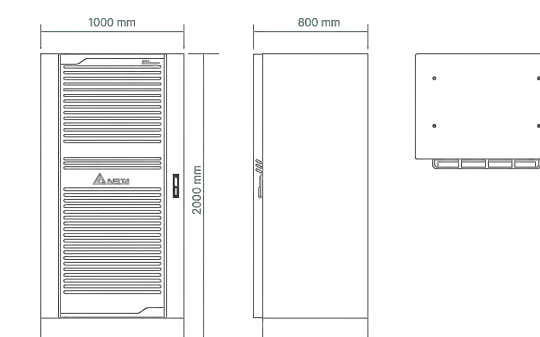
Dispenser



Specifications - Power Cabinet

Part Number	EIDN-U
Power Input	
Input Rating	480 Vac Three phase, 60Hz
Power Factor	≥0.99
Current THD	Compliant with IEEE 519
Power Output	
Output Voltage	150-950Vdc
DC Output Current	540 A max
DC Output power	350kW
Efficiency	≥ 95% @400Vdc, full load; (Peak 96%)
Protection	
Protection	Over current, Under voltage, Over voltage, Residual current, Surge protection, Short circuit, Over temperature, Ground fault
Environmental	
Operating Temperature	22°F to +122°F (-30°C to +50°C) Power derating above +122°F (+50°C)
Storage Temperature	-40°F to -176°F (-40°C to +80°C)
Humidity	< 95 % relative humidity, non-condensing
Altitude	6,500 ft. (2,000 m)
EMC	FCC Part 15-b Class A
Mechanical	
Ingress Protection	IP55/NEMA Type 3R
Enclosure Protection	IK 10
Cooling	Force Air
Dimension (W x H x D)	39.3 x 78.7 x 31.4 inch (1000 x 2000 x 800 mm)
Equipment Weight	1184 lb (537 kg)
Regulation	
Certification	UL 2202, UL2231

Power Cabinet



Delta Electronics (Americas) Ltd.
46101 Fremont Boulevard Fremont, CA 94538 U.S.A.
TEL : +1 510 688 5100
E-mail : evcs@deltaww.com
evcharging.deltaww.com

Delta Electronics Inc.
16 Tungyuan Road, Chungli Industrial Zone, Taoyuan City 32063, Taiwan
TEL : +886 3 4528107

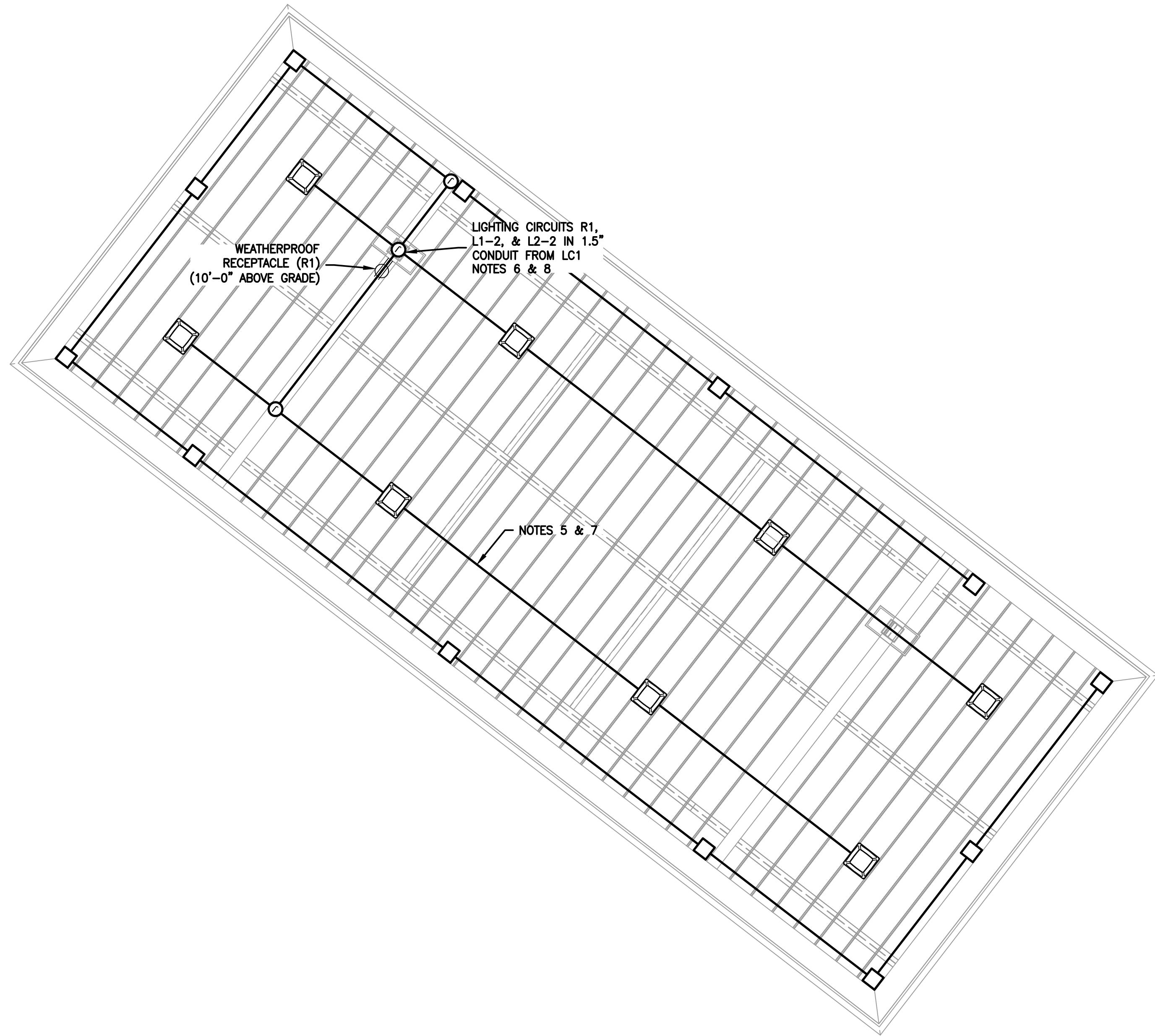


EV Charging Solution

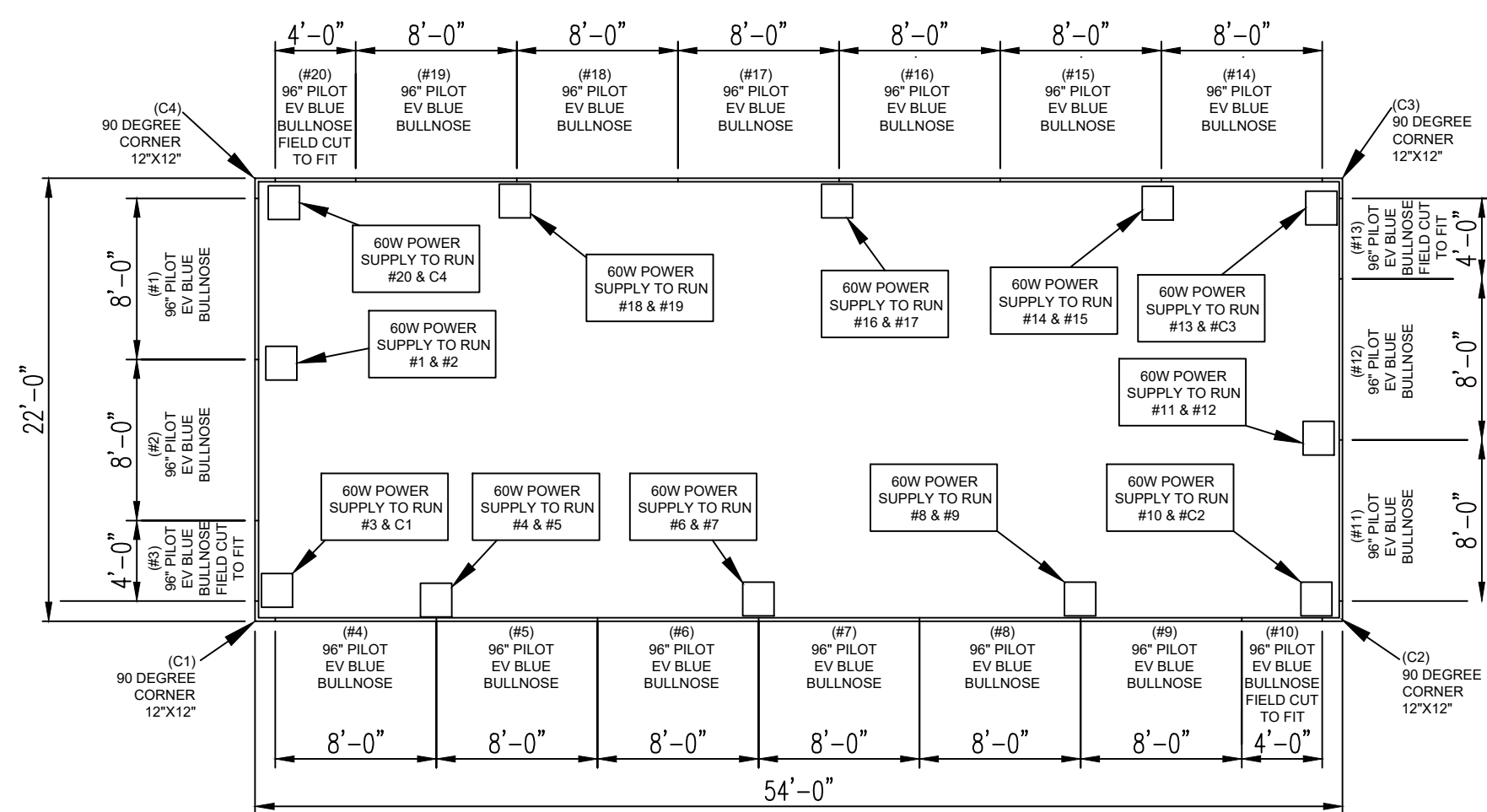
DC Charger / High Power Charger 350kW

- Distributed space-saving architecture
- 95% peak power efficiency for energy saving
- OCPP and network connectivity for seamless system integration





CANOPY CEILING LIGHTING PLAN
NO SCALE



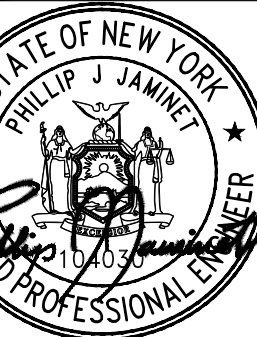
CANOPY FASCIA LIGHTING PLAN
NO SCALE

LIGHTING CONDUIT AND WIRING SCHEDULE					
	FROM	TO	CONFIGURATION	LENGTH	VOLTAGE DROP
LC	PANELBOARD 120V/208V SECTION LP1	LIGHTING CONTACTOR PANEL LC1 (CONTROLS)	(2) #12 AWG CU (THWN-2) + (1) #12 AWG CU (THWN-2) EGC IN (1) 1" EMT CONDUIT	5 FT	-
L1-1	PANELBOARD 120V/208V SECTION LP1	LIGHTING CONTACTOR PANEL LC1	(2) #12 AWG CU (THWN-2) + (1) #12 AWG CU (THWN-2) EGC	5 FT	-
L2-1	PANELBOARD 120V/208V SECTION LP1	LIGHTING CONTACTOR PANEL LC1	(2) #12 AWG CU (THWN-2) + (1) #12 AWG CU (THWN-2) EGC	5 FT	-
R1	PANELBOARD 120V/208V SECTION LP1	LIGHTING CONTACTOR PANEL LC1 (PULL THROUGH TO CANOPY RECEPTACLE)	(2) #12 AWG CU (THWN-2) + (1) #12 AWG CU (THWN-2) EGC (1) 2" SCHEDULE 40 PVC CONDUIT	Example	Delete
L1-2	LIGHTING CONTACTOR PANEL LC1	CANOPY CEILING LIGHTS	(2) #12 AWG CU (THWN-2) + (1) #12 AWG CU (THWN-2) EGC	220 FT	2.39%
L2-2	LIGHTING CONTACTOR PANEL LC1	CANOPY FASCIA LIGHTS	(2) #12 AWG CU (THWN-2) + (1) #12 AWG CU (THWN-2) EGC	300 FT	3.19%
R1'	(PANELBOARD 120V/208V SECTION LP1) PULLED THROUGH LIGHTING CONTACTOR PANEL LC1	CANOPY RECEPTACLE	(2) #12 AWG CU (THWN-2) + (1) #12 AWG CU (THWN-2) EGC (1) 2" SCHEDULE 40 PVC CONDUIT	80 FT	0.34%

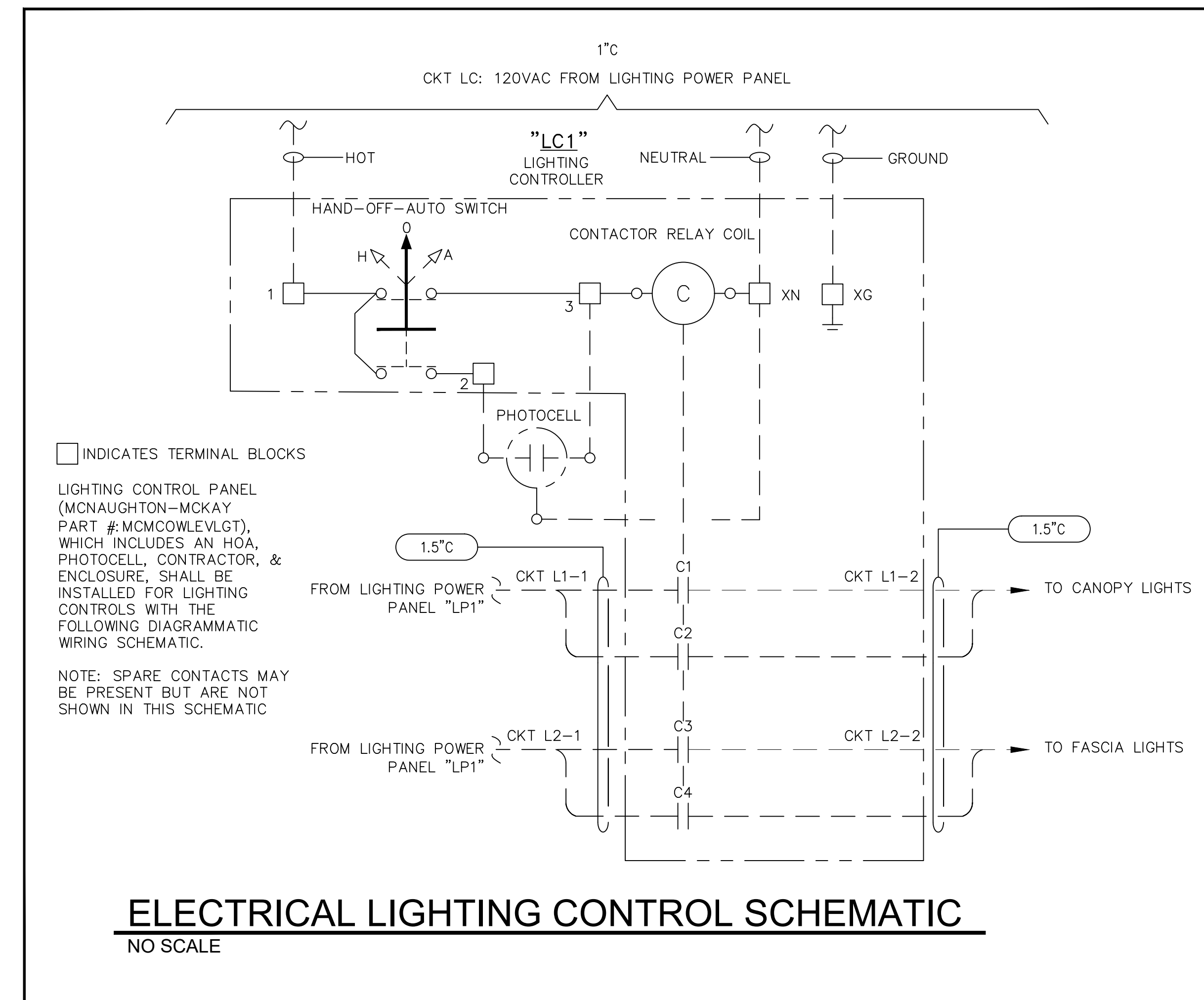
LIGHTING CONTACTOR MATERIAL SCHEDULE							
TYPE	SYMBOL	CIRCUIT	DESCRIPTION	MANUFACTURER	MODEL	QUANTITY	NOTES
A		L1-2	CANOPY CEILING LIGHT	CREE	CPY250-C-13L-57K7-F-UL-DM-WH-HZ	12	CPY CANOPY - DIRECT MT FLAT LENS 13000LM 120-277V WHITE 5700K 70 CRI CLASS I DIV 2
B		L2-2	CANOPY FASCIA 60W POWER SUPPLY	BY UNIVERSAL SIGN & DISPLAY	60W POWER SUPPLY	12	60W, INPUT VOLTAGE: 110V-277VAC, OUTPUT VOLTAGE: 12VDC
C	N/A	L2-2	CANOPY FASCIA LIGHT	BY UNIVERSAL SIGN & DISPLAY	8" PILOT EVBLUE BULLNOSE ULTIUM BLUE 4" LED BAR	30	
D	N/A	L2-2	CANOPY FASCIA CORNER LIGHT	BY UNIVERSAL SIGN & DISPLAY	CORNER LIGHT 12" X 12"	4	

GENERAL NOTES

- CONDUIT ROUTING IS DIAGRAMMATICALLY SHOWN ON PLANS AND ARE ONLY APPROXIMATIONS. THE EXACT LOCATION AND ROUTING PATHS SHALL BE FIELD VERIFIED AND INSTALLED PER JURISDICTIONAL REQUIREMENTS PRIOR TO DIGGING TRENCHING.
- ALL ELECTRICAL WORK AND RELATED ACTIVITIES PERFORMED ONSITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC), LOCAL CODES AND APPLICABLE STANDARDS.
- UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER TO ENSURE ACCURACY OF INSTALLATIONS.
- RECEPTACLE R1 POWER CABLE SHALL BE PULLED THROUGH LIGHTING CONTACTOR WITHOUT TERMINATION AND CONTINUE ROUTING DIRECTLY TO RECEPTACLE R1 LOCATED ON CANOPY SUPPORT.
- SCHEDULE 40 PVC CONDUIT IS NOT TO BE USED ANYWHERE THAT IS EXPOSED TO DIRECT SUNLIGHT ON THE CANOPY PER NEC 352.12 (D)
- ROUTING FOR ALL LIGHTING & RECEPTACLE CIRCUITS FROM THE TOP OF THE CANOPY SUPPORT COLUMN TO THEIR RESPECTIVE EQUIPMENT SHALL USE THEIR OWN, INDIVIDUAL CONDUITS; ALL WIRES SMALLER THAN 6 AWG WILL USE A 1" EMT CONDUIT & WIRES THAT ARE 6 AWG AND LARGER WILL USE 1.5" EMT CONDUIT.
- ANCHOR DOWN ALL CONDUIT TO CANOPY STRUCTURE WITH U-CLAMPS
- THE SCHEDULE 40 PVC CONDUIT FROM LC1 HOLDING THE LIGHTING & RECEPTACLE CIRCUITS SHALL TERMINATE 1.5 FT ABOVE GRADE WITHIN THE CANOPY COLUMN WITH WEATHER TIGHT SEALANT. CONTINUE ROUTING LIGHT & RECEPTACLE CIRCUITS UP THROUGH CANOPY COLUMN TO TOP OF CANOPY.



P85335 - PILOT TRAVEL CENTER 394
ELECTRIC VEHICLE CHARGING
239 ROUTE 17K
NEWBURGH, NY 12550



ELECTRICAL LIGHTING CONTROL SCHEMATIC
NO SCALE

NO.	DATE	REVISION DESCRIPTION
0	2023/02/22	ISSUED FOR REVIEW
1	2024/05/28	UPDATED PER AIA COMMENTS AND TO LATEST STANDARDS

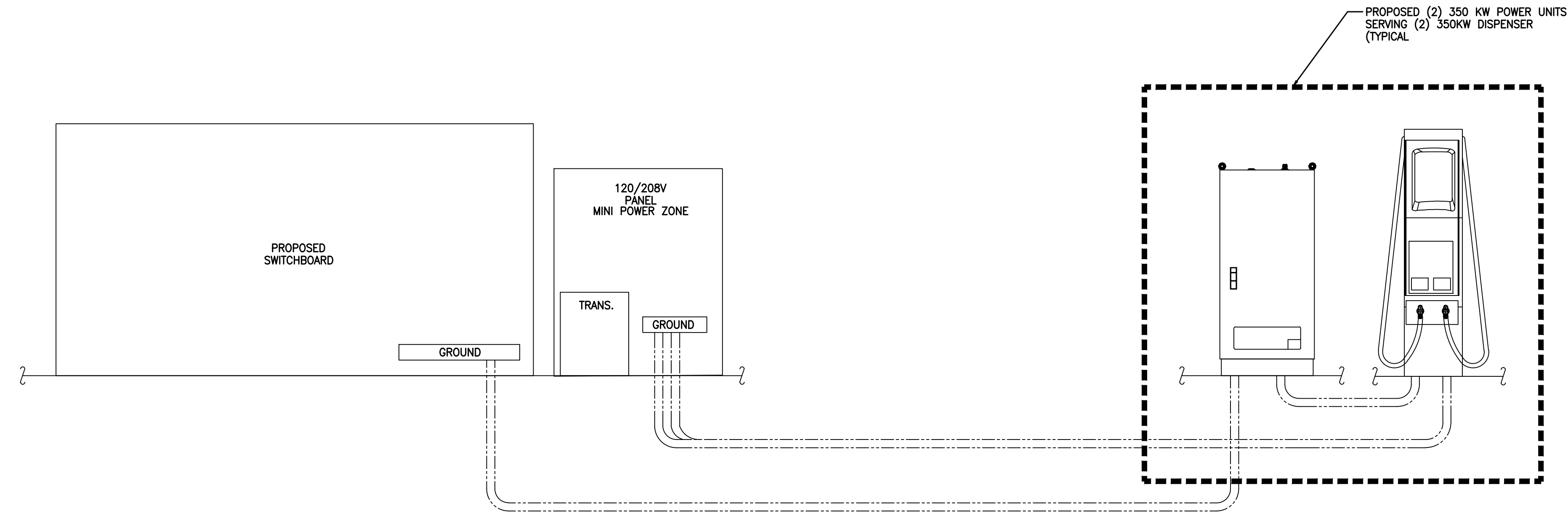
DATE: 02/22/2023

SHEET TITLE: ELECTRICAL LIGHTING PLAN

SHEET NUMBER: E-8

NOTES

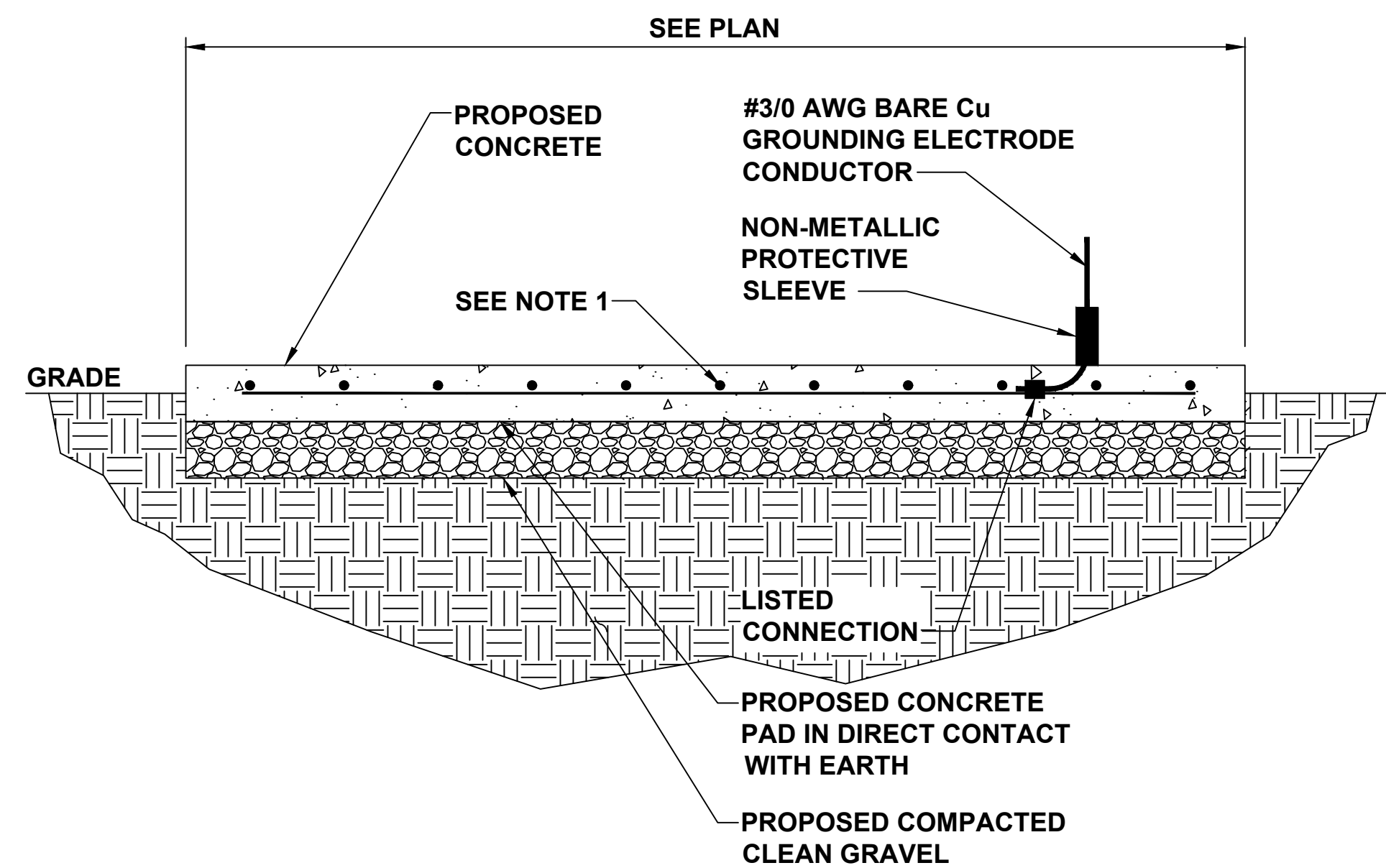
1. REFER TO DRAWING E-3 FOR ADDITIONAL INFORMATION



A GROUNDING SCHEMATIC
G-1 NO SCALE

NOTE

1. REBAR BONDED TOGETHER WITH STEEL TIE WIRES OR EXOTHERMIC WELDING



B CONCRETE ENCASED ELECTRODE DETAIL
G-1 NO SCALE

CADWELD CONNECTIONS
OR ENGINEER APPROVED EQUAL

<p>CABLE TO REBAR TEE CONNECTION HORIZONTAL CABLE TAP TO VERTICAL REBAR TYPE RJ</p>	<p>HORIZONTAL SPLICE SPLICE OF HORIZONTAL CABLES TYPE SS</p>	<p>PARALLEL HORIZONTAL CONDUCTORS PARALLEL THROUGH CONNECTION OF HORIZONTAL CABLES TYPE PT</p>
<p>BOND JUMPER FIELD FABRICATED GREEN STRANDED INSULATED TYPE 2-YA-2</p>	<p>HORIZONTAL STEEL SURFACE TO FLAT STEEL SURFACE OR HORIZONTAL PIPE TYPE HS</p>	<p>PARALLEL HORIZONTAL CONDUCTORS PARALLEL DEAD END TAP OR HORIZONTAL THRU CONDUCTOR TYPE PC</p>
<p>COPPER LUGS TWO HOLE - LONG BARREL LENGTH TYPE YA-2</p>	<p>VERTICAL PIPE CABLE DOWN AT 45° TO RANGE OF VERTICAL PIPES TYPE VS</p>	<p>VERTICAL STEEL SURFACE CABLE DOWN AT 45° TO VERTICAL STEEL SURFACE INCLUDING PIPE TYPE VS</p>
<p>HORIZONTAL TEE TEE OF HORIZONTAL RUN AND TAP CABLES TYPE TA</p>	<p>THROUGH CABLE TO GROUND ROD THROUGH CABLE TO TOP OF GROUND ROD TYPE GT</p>	

C CONCRETE ENCASED ELECTRODE DETAIL
G-1 NO SCALE

NOTES:

- ALL HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- NEC 250.121 EXCEPTION: A WIRE-TYPE EQUIPMENT GROUNDING CONDUCTOR INSTALLED IN COMPLIANCE WITH 250.6(A) AND THE APPLICABLE REQUIREMENTS FOR BOTH THE EQUIPMENT GROUNDING CONDUCTOR AND THE GROUNDING ELECTRODE CONDUCTOR IN PARTS II, III, AND VI OF THIS ARTICLE SHALL BE PERMITTED TO SERVE AS BOTH AN EQUIPMENT GROUNDING CONDUCTOR AND A GROUNDING ELECTRODE CONDUCTOR.

GENERAL CONSTRUCTION NOTES

FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY

- ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS.
- THE GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
- THE GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
- CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.
- THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER.
- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
- THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
- THE CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A-10-B-C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. THE CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
- THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
- ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
- ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION.

GENERAL CONSTRUCTION NOTES CONT.

- THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
- THE CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
- THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
- NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
- THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

ELECTRICAL NOTES

- THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY 'CONSTRUCTION MANAGER' AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE 'CONSTRUCTION MANAGER' HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.
- THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. THE CONDITION OF EXISTING ELECTRICAL EQUIP., LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTAL OF HIS BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT NOT BE LIMITED TO:
 - UL – UNDERWRITERS LABORATORIES
 - NEC – NATIONAL ELECTRICAL CODE
 - NEMA – NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
 - OSHA – OCCUPATIONAL SAFETY AND HEALTH ACT
 - SBC – STANDARD BUILDING CODE
 - NFPA – NATIONAL FIRE PROTECTION ASSOCIATION
- DO NOT SCALE ELECTRICAL DRAWINGS, REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, BUT CONFIRM WITH 'CONSTRUCTION MANAGER' ANY SIZES AND LOCATIONS WHEN NEEDED.
- EXISTING SERVICES: THE CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
- THE CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS AND TESTING. THE CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING THE EQUIPMENT.
- THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.
- THE CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' CONFIRMATION, ETC. ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK.
- CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER OR ALUMINUM WITH TYPE (THWN-2) INSULATION, 600 VOLT, COLOR CODED UNLESS SPECIFIED DIFFERENTLY ON DRAWINGS.
- ALL (THWN-2) WIRING INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER. CONTRACTOR IS TO PROVIDE ALL ELECTRICAL EQUIPMENT UNLESS OTHERWISE DIRECTED.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIONAL AND SUBJECT TO REGULATORY INSPECTION AND APPROVAL BY CONSTRUCTION MANAGER.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
- THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.

ELECTRICAL NOTES CONT.

- ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
- PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
- TRENCHING AND BACKFILL: THE CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION. REFER TO GENERAL SITE WORK NOTES.
- MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND IEEE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURES CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE 'CONSTRUCTION MANAGER' UPON FINAL ACCEPTANCE.
- THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES.
- DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
- ALL CONNECTIONS EXCEPT THE EV CHARGE CABLE TERMINATION IN THE CHARGE POST SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NOALOX" BY IDEAL INDUSTRIAL INC., COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED ALUMINUM & COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED – NO SUBSTITUTIONS.
- ALL EXTERIOR AND INTERIOR ABOVE GROUND CONDUIT SHALL BE RIGID UNLESS SPECIFIED OTHERWISE. ALL BURIED CONDUITS SHALL BE SCH 40 PVC UNLESS SPECIFIED OTHERWISE.
- RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC, MEETING OR EXCEEDING NEMA TC2 – 2020. THE CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS – 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 3 FT. RADIUS. RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH 'BRITE ZINC' OR 'GOLD GALV'.
- SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
- CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
- THE CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL SERVICE CONDUITS. CAUTION TAPE TO READ "CAUTION BURIED ELECTRIC".
- WHEN DIRECTIONAL BORING IS REQUIRED, CONTRACTOR SHALL INSTALL A LOOSE TONING WIRE WITHIN INSTALLED CONDUIT TO ALLOW FOR IDENTIFICATION OF UNDERGROUND CONDUITS.
- ALL BOLTS SHALL BE STAINLESS STEEL.
- ALL MATERIALS AND EQUIPMENT SUPPLIED AND INSTALLED BY THE CONTRACTOR SHOULD BE NEW AND UNUSED.
- ALL WORK SHALL BE INSTALLED CONCEALED UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL FIELD VERIFY DIMENSIONS OF FINISHED CONSTRUCTION PRIOR TO FABRICATION AND INSTALLATION OF FIXTURES AND EQUIPMENT.
- MOUNTING HEIGHTS OF EQUIPMENT AND DEVICES SHALL BE AS INDICATED ON THE ARCHITECTURAL DRAWINGS. WHERE MOUNTING HEIGHTS ARE NOT GIVEN ON THE ARCHITECTURAL DRAWINGS, UTILIZE THE FOLLOWING MOUNTING HEIGHTS UNLESS OTHERWISE NOTED (ALL DIMENSIONS TO CENTERLINE OF BOX): A. RECEPTACLES (WALL MOUNTED) – 18 A.F.F.
- ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE TO MAKE HIMSELF AWARE OF EXISTING CONDITIONS BEFORE SUBMITTING HIS PRICE.
- THE MINIMUM RATING OF DISCONNECT SWITCHES SHALL BE EQUAL TO OR GREATER THAN THE RATING OF THE PROTECTIVE DEVICE ON THE SUPPLY SIDE OF THE DISCONNECT SWITCH. ALL RATINGS OF DISCONNECT SWITCHES AND OR FUSES/ OVER-CURRENT DEVICES SHALL BE SIZED IN ACCORDANCE WITH CODE FOR THE LOADS SERVED PER DESIGN DRAWINGS.
- 3/4" (21 MM) SHALL BE THE MINIMUM CONDUIT INSTALLED.
- NO LOW VOLTAGE WIRING SHALL BE PERMITTED IN THE SAME RACEWAY AS LINE VOLTAGE POWER WIRING.
- ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO COVER. PROVIDE APPROVED ACCESS DOORS OR PLATES AS REQUIRED IN AREAS WHERE UNOBSTRUCTED ACCESS TO BOX OR OUTLET IS NOT POSSIBLE.
- AT ALL EMPTY CONDUITS PROVIDE BUSHINGS AT ENDS AND DRAG WIRES.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AN ELECTRICAL INSPECTION APPROVAL CERTIFICATE TO OWNER UPON COMPLETION OF WORK.
- CIRCUIT ASSIGNMENTS FOR, RECEPTACLES, WIRING DEVICES, AND ELECTRICAL EQUIPMENT ARE DESIGNATED BY THE NUMBER SHOWN ADJACENT TO THESE DEVICES / EQUIPMENT. PROVIDE CONDUITS, WIRES AND BOXES REQUIRED TO ENERGIZE THE EQUIPMENT AS SHOWN.
- CIRCUIT NUMBERS ARE FOR REFERENCE ONLY. CIRCUIT NUMBERS ARE INTENDED TO BE USED FOR QUANTITIES AND FOR DESIGNATING WHAT OUTLETS (FIXTURES, EQUIPMENT, ETC.) WILL BE ON THE SAME CIRCUIT. CONTRACTOR SHALL REARRANGE CIRCUITS PER FIELD CONDITIONS SO THAT LOAD VALUES FOR EACH PHASE DO NOT EXCEED CODE REQUIREMENTS AND TO BALANCE THE LOADS AT THE PANELS PER SPECIFICATIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUITS WITH PROPER PHASE SEQUENCES FOR EVERY REQUIRED NEUTRAL WIRE THAT IS SHARED. ELECTRICAL CONTRACTOR SHALL DOCUMENT ALL AFFECTED CIRCUITS, LABEL EACH OUTLET COVER WITH ACTUAL PANEL DESIGNATION AND CIRCUIT NUMBER, AND PROVIDE AS-BUILT PANEL DIRECTORIES AND DRAWINGS PER SPECIFICATIONS.
- ALL WORK SHALL COMPLY WITH REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, LOCAL BUILDING CODE AND BUILDING MANAGEMENT RULES AND REGULATIONS.



P85335 - PILOT TRAVEL CENTER 394
ELECTRIC VEHICLE CHARGING
239 ROUTE 17K
NEWBURGH, NY 12550

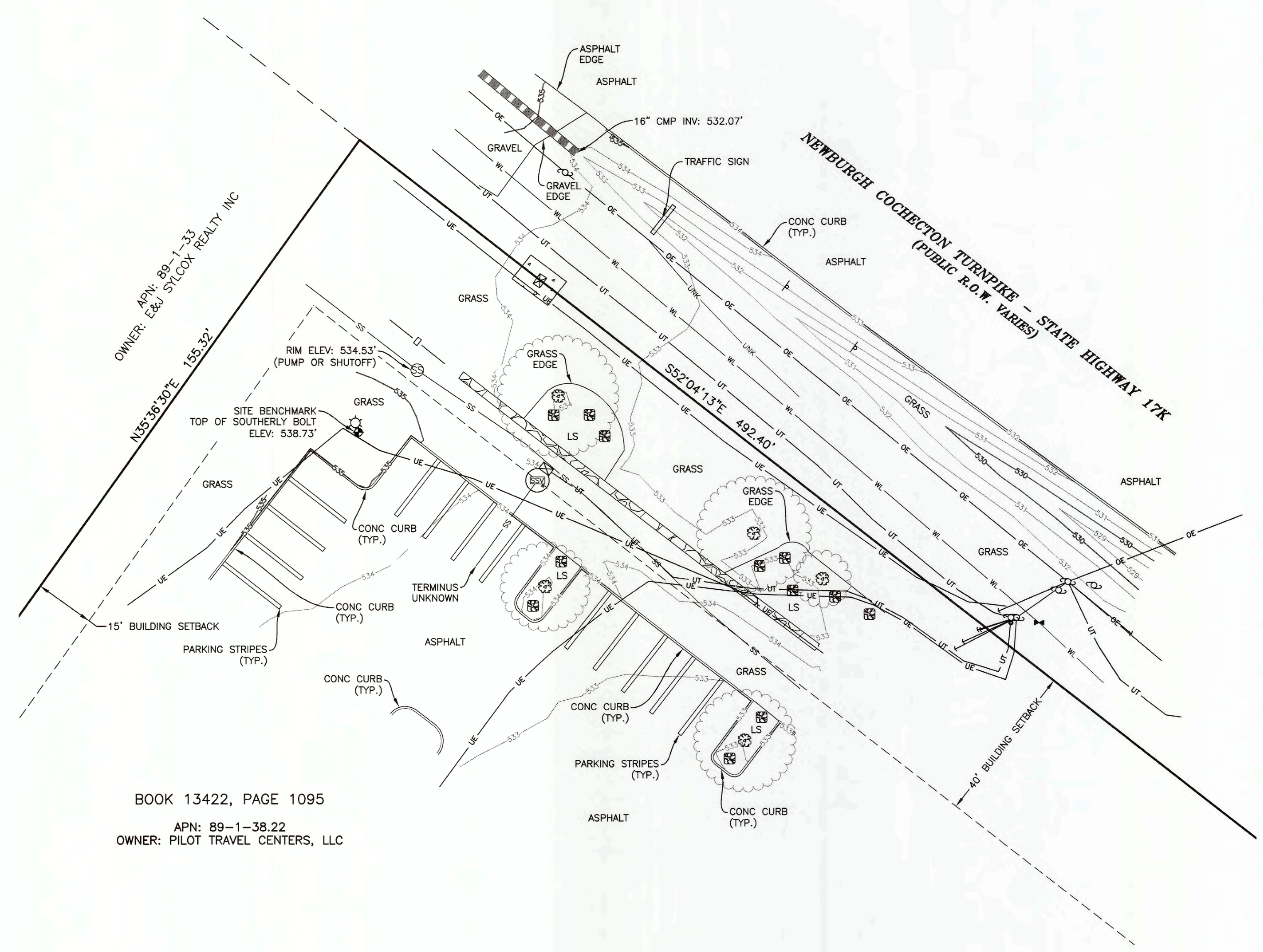
NO.	DATE	REVISION DESCRIPTION
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1	2024/05/28	UPDATED PER AIA COMMENTS AND TO LATEST STANDARDS

DATE: 02/22/2023

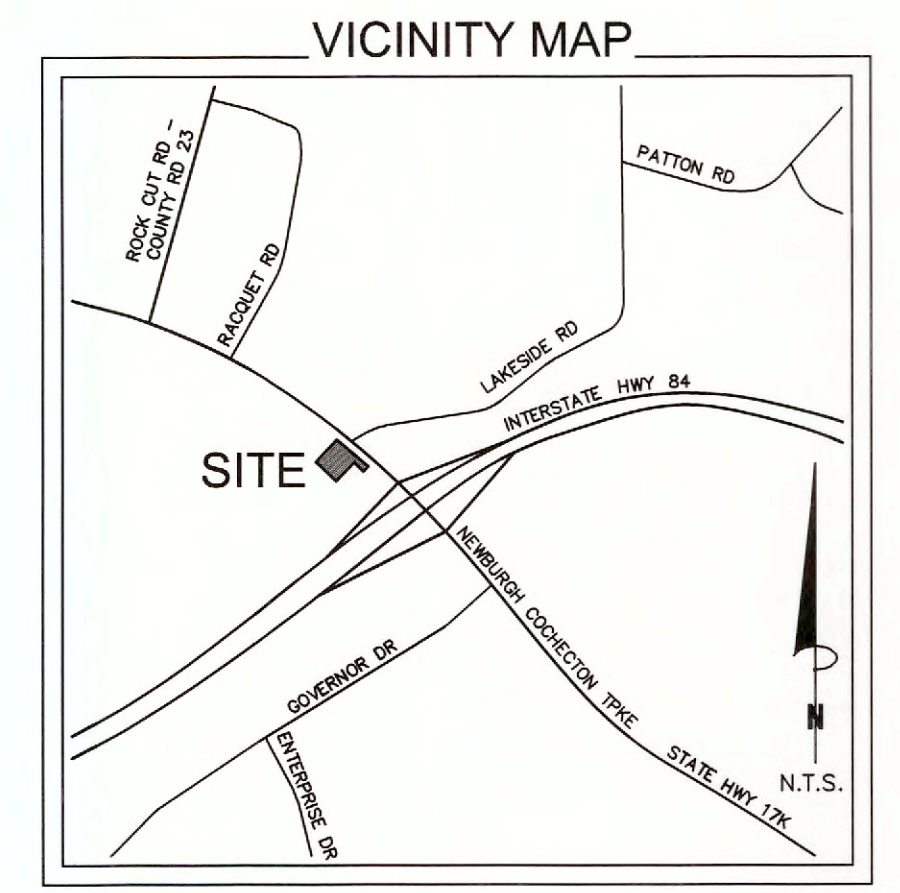
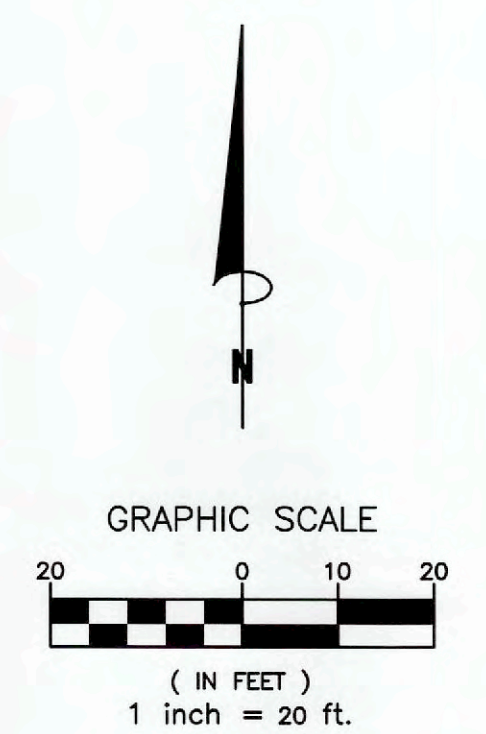
SHEET TITLE
ELECTRICAL GENERAL CONSTRUCTION NOTES

SHEET NUMBER
GN-1

LEGEND	
	SITE BENCHMARK
	SANITARY MANHOLE
	SANITARY VAULT
	WATER VALVE
	LIGHT POLE
	GUYWIRE
	UTILITY POLE
	UTILITY POLE W/ TRANSFORMER
	TELEPHONE CABINET
	DECIDUOUS TREE
	SHRUB
	LANDSCAPED AREA
	SIGN
	CULVERT
	SANITARY LINE (UNDERGROUND)
	WATER LINE (UNDERGROUND)
	ELECTRIC LINE (UNDERGROUND)
	ELECTRIC LINE (OVERHEAD)
	TELEPHONE LINE (UNDERGROUND)
	UNKNOWN LINE (UNDERGROUND)
	WOOD FENCE
	CONCRETE AREA
	RIP-RAP AREA



BOOK 13422, PAGE 1095
 APN: 89-1-38.22
 OWNER: PILOT TRAVEL CENTERS, LLC



LEGAL DESCRIPTION:

THAT PARCEL DESCRIBED IN THAT INDENTURE RECORDED ON OCTOBER 4, 2012 IN BOOK 13422 PAGE 1095 IN THE OFFICIAL RECORDS OF ORANGE COUNTY RECORDING OFFICE, ORANGE COUNTY, NEW YORK.

SCHEDULE B2 EXCEPTIONS:

- Item No. 1. SUBJECT TO AGREEMENT, RECORDED IN BOOK 11628, PAGE 389 IN THE OFFICIAL RECORDS OF THE ORANGE COUNTY RECORDING OFFICE, -IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE.
- Items not listed above are determined non-survey related items and are not plotted hereon.

NOTES:

- This is a topographic map. This is not a boundary survey and is only intended to depict those topographic features or improvements shown. The property lines shown are for graphical reference only.
- Any underground utilities shown have been located from field survey information. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from the information available. This site was located by standard RF methods and ground penetrating radar methods.
- FEDERAL EMERGENCY MANAGEMENT AGENCY, FEMA FIRMette published July 21, 2022, referencing Flood Insurance Rate Map, Map Number 36071C0138E effective date August 3, 2009, indicates this survey area is located in Zone X (Area of minimal flood hazard).
- This survey does not constitute a title search by Clark Land Surveying, Inc. to determine ownership or easements of record. For all information regarding easements, rights of way and title of record, Clark Land Surveying, Inc. relied upon a Search Report, prepared by Nationwide Abstrax, LLC with a file number of 2022-0126748-NY, dated June 13, 2022.
- Elevations are based on NAVD 88 datum.
- BENCHMARK: Top of southerly bolt on light pole, as shown. Elevation: 538.73' (NAVD 88).
- BASIS OF BEARINGS: Based upon New York State Plane Coordinate System, East Zone, NAD83.
- Field work for this survey was completed on September 23, 2022.
- The owner names and tax parcel data shown hereon are based upon the public records available at the original date of this survey. Current ownership and tax parcel data should be verified for accuracy.
- This site is zoned "B" (Business District) per Town of Newburgh Planning Department.
 Building Setbacks:
 Front: 40', Side: 15', Rear: 30'
 No zoning information provided by the client. Any Zoning setbacks shown hereon are the interpretation of the surveyor. For clarification of exact zoning designations and setback locations, please, contact the Town of Newburgh Planning Department at (845)564-4554.

AREAS OF CONCERN:

No apparent areas of concern.

SURVEYOR'S STATEMENT:

On the basis of my knowledge, information and belief, I hereby state and declare that this drawing was prepared under my direct supervision to the standard of care of surveyors practicing in the State of New York and that the information shown hereon is true and correct to the best of my knowledge and belief.

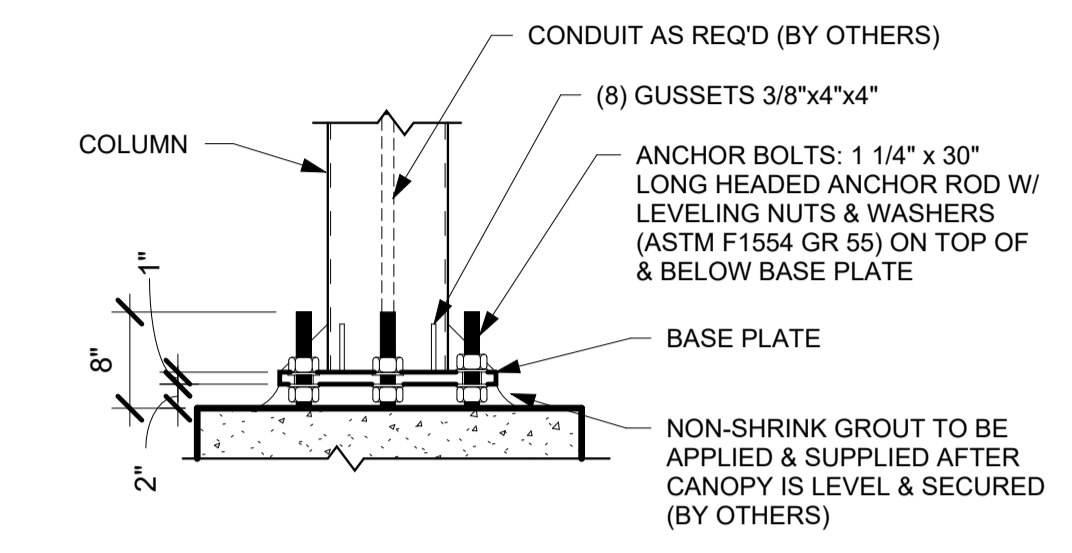
This statement is neither a warranty nor a guarantee, either expressed or implied.



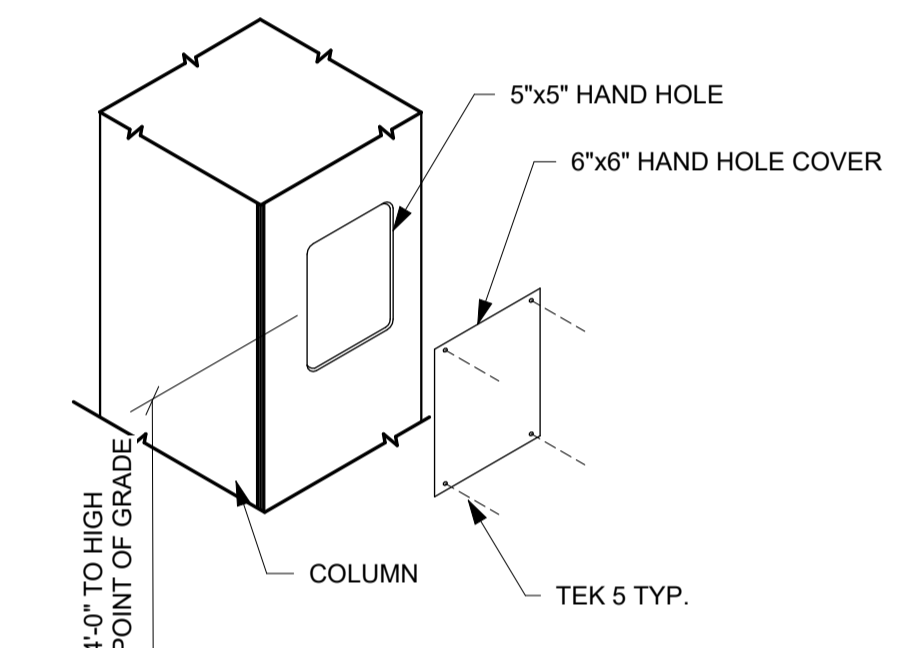
Timothy J. Coyer
 New York Professional Land Surveyor No. 050856
 For and on behalf of Clark Land Surveying, Inc.

No.	Description	By	Date

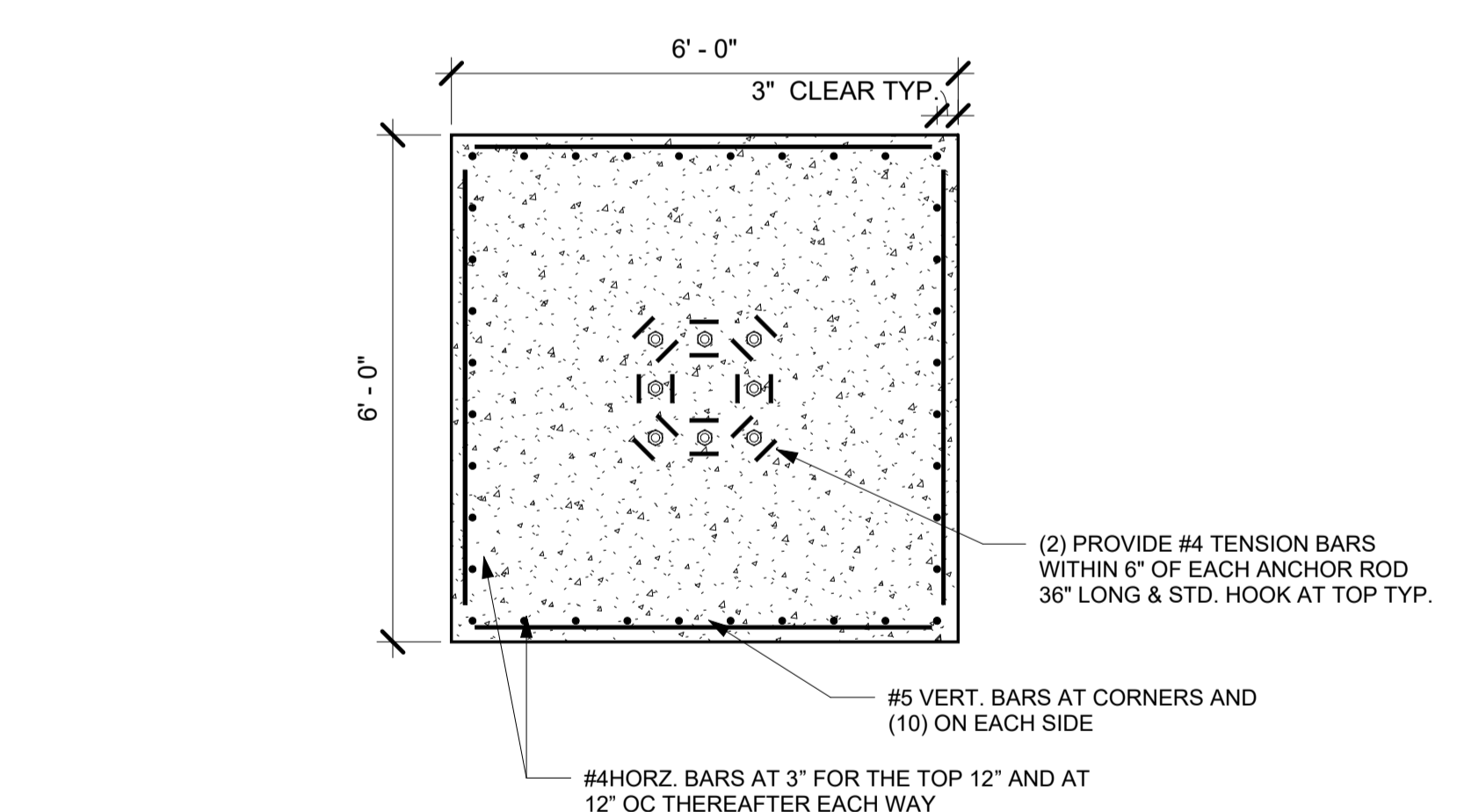
SITE NAME:
 P85335 - Pilot
 Travel Center 394



4 D1 BASE PLATE W/8 GUSSET & A-BOLT
3/4" = 1'-0"



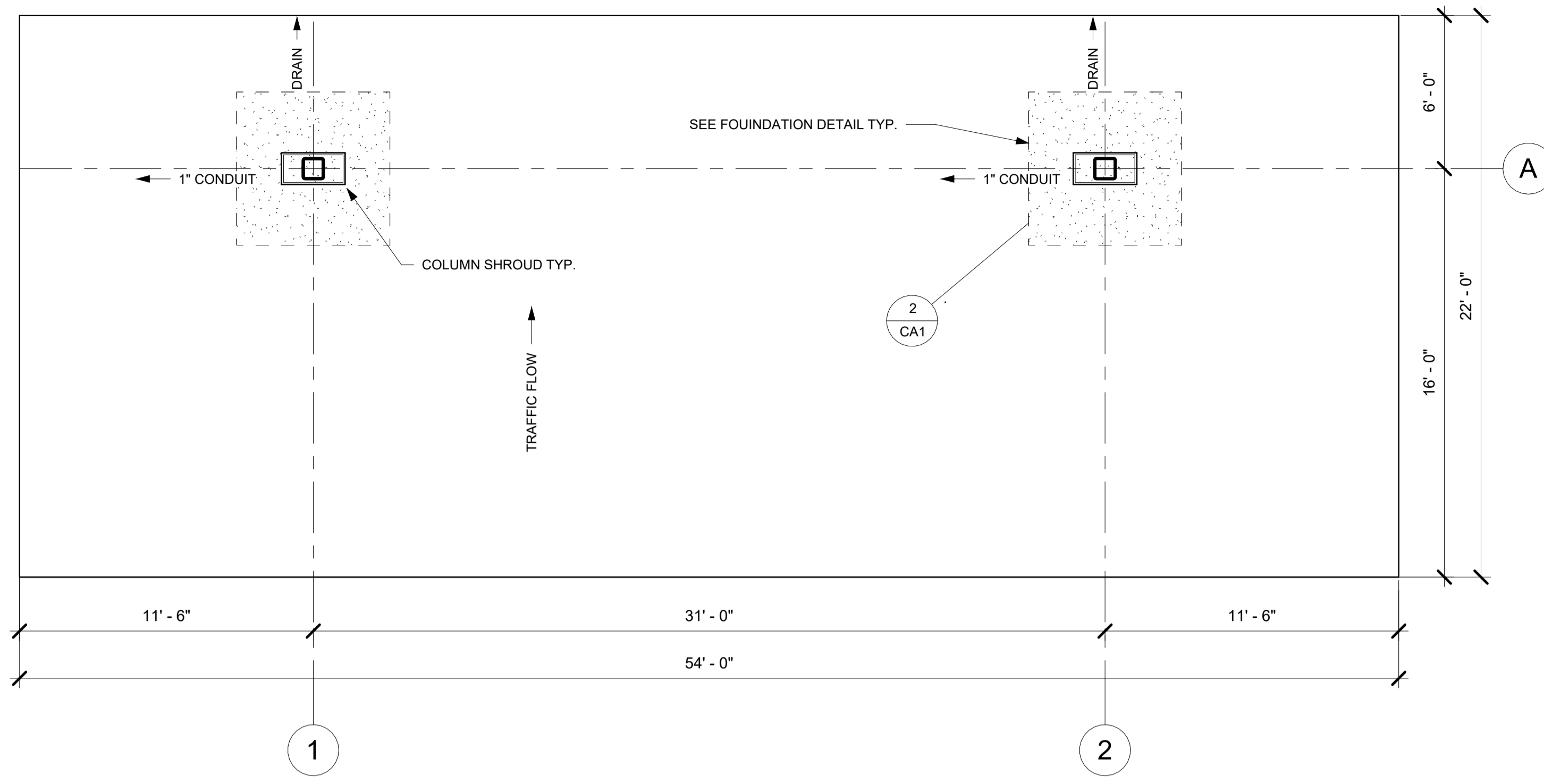
5 D2 HAND HOLE & COVER
3/4" = 1'-0"



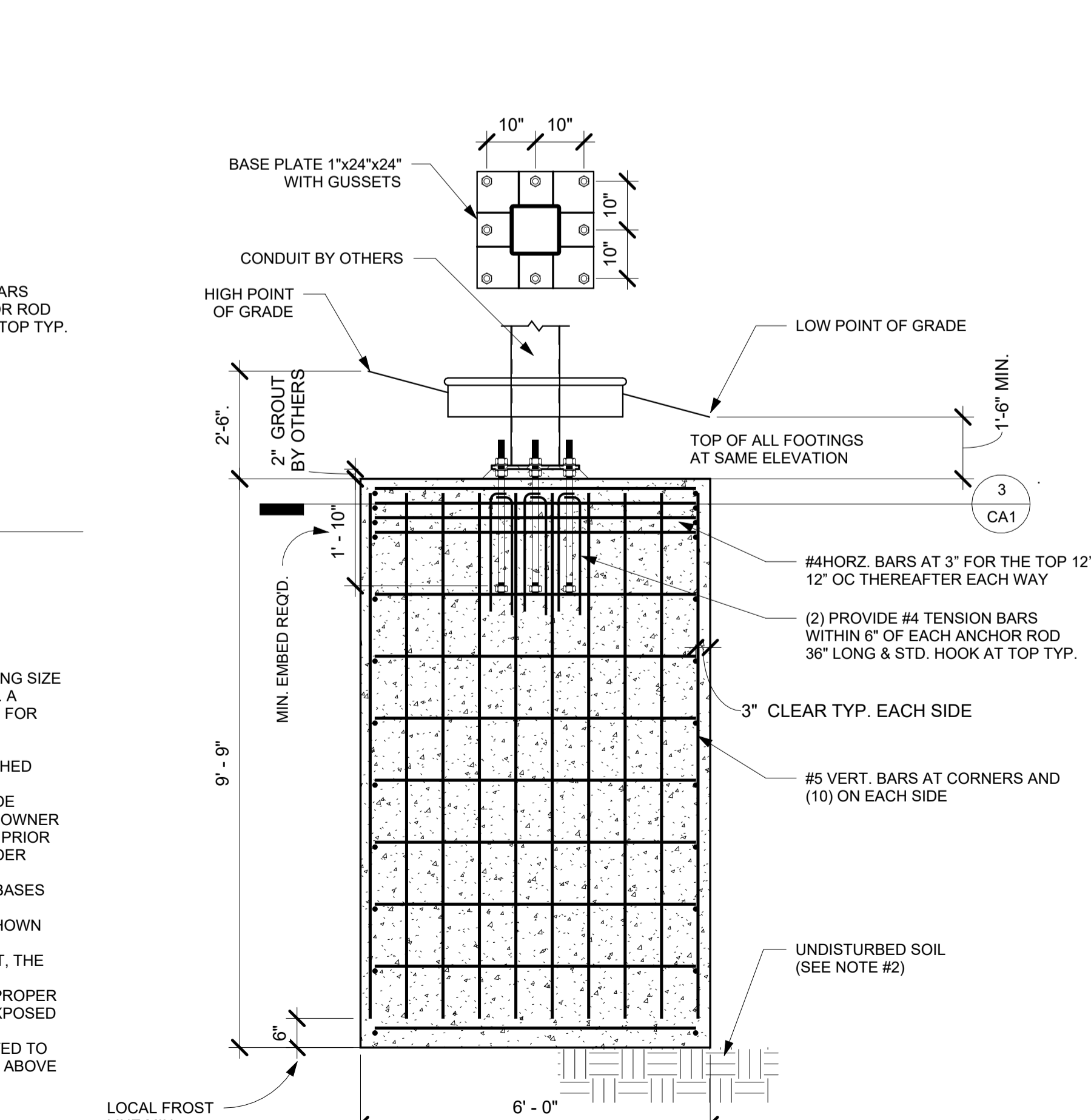
3 FOOTING SECTION (SQUARE)
1/2" = 1'-0"

FOOTING NOTES

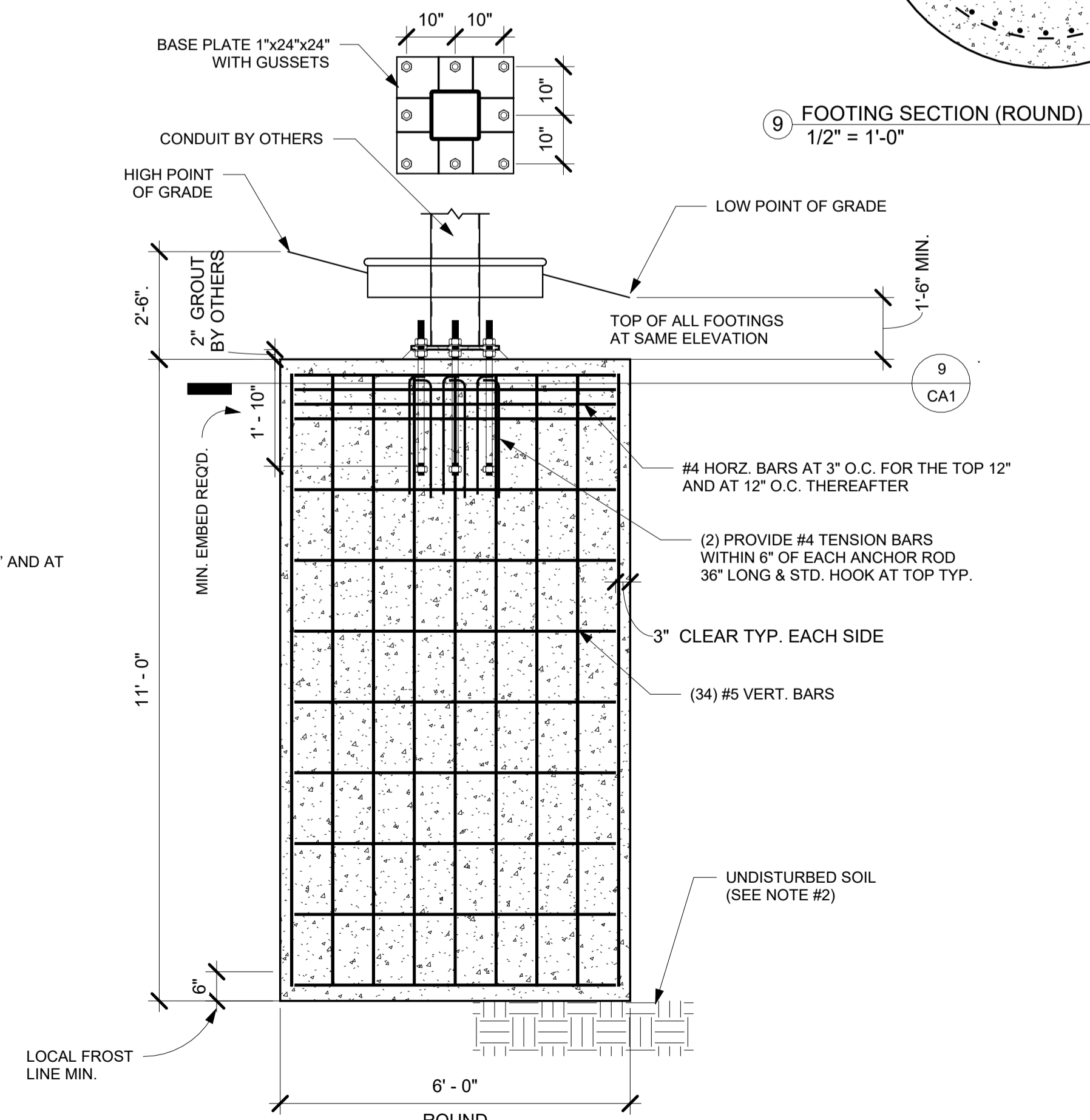
- OWNER / GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FOOTING AND ANCHOR BOLT INSTALLATION.
- ALL FOOTINGS SHALL BE CAST ON LEVEL UNDISTURBED SOIL, ROCK OR PROPERLY COMPACTED SUBGRADE. FOOTING SIZE BASED ON MAXIMUM 1500 PSF SOIL BEARING AT BASE AND 100 PSF PER FOOT OF DEPTH LATERAL BEARING CAPACITY. A GEOTECHNICAL INVESTIGATION REPORT WAS NOT PROVIDED BY THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL SOIL PARAMETERS AND FOLLOWING APPLICABLE SOIL PREPARATION RECOMMENDATIONS.
- FOOTING CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
- FOOTING DESIGN BASED ON AN ASSUMED 1'-6" BURY OF THE COLUMNS FROM THE BOTTOM OF BASEPLATE TO FINISHED GRADE. ANY AMOUNT OF BURY LESS THAN 1'-0" WILL RESULT IN A LARGER FOOTING SIZE.
- TOPS OF ALL FOOTINGS ARE ASSUMED TO BE AT SAME ELEVATION. OWNER / GENERAL CONTRACTOR SHALL PROVIDE BURIAL DEPTH FROM HIGH GRADE UNDER CANOPY. WHERE TOPS OF FOOTINGS ARE AT DIFFERENT ELEVATIONS, THE OWNER / GENERAL CONTRACTOR SHALL PROVIDE THE CANOPY MANUFACTURER WITH ALL FOOTING AND GRADE ELEVATIONS PRIOR TO CANOPY FABRICATION. VARIATIONS FROM DESIGN ELEVATIONS MAY RESULT IN INADEQUATE CLEARANCE AND UNDER SIZED FOOTINGS.
- OWNER / GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING NON-SHRINK GROUT UNDER ALL COLUMN BASES AFTER CANOPY IS LEVELED AND SECURED.
- FOOTING REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 DEFORMED BILLET STEEL BARS WITH SPACING AS SHOWN ON DRAWING.
- FOOTINGS ARE ASSUMED TO BE CONSTRAINED BY DRIVE MAT CONCRETE. WHERE THIS CONDITION DOES NOT EXIST, THE OWNER SHALL NOTIFY CANOPY MANUFACTURER.
- ANCHOR BOLTS SHALL BE PLACED IN ACCORDANCE WITH THIS DRAWING. TEMPLATES SHALL BE USED TO ENSURE PROPER PLACEMENT OF ANCHOR BOLTS. ANCHOR BOLTS ARE TO BE INSTALLED SUCH THAT A MINIMUM OF 8" OF THREAD IS EXPOSED ABOVE TOP OF FOOTING. BOTTOM OF THREADS SHALL NOT END MORE THAN 3/4" ABOVE TOP OF FOOTER.
- ANY DISCREPANCIES BETWEEN THE ABOVE NOTES AND LOCAL BUILDING CODE REQUIREMENTS SHALL BE REPORTED TO THE CANOPY MANUFACTURER IMMEDIATELY. COMMENCEMENT OF FOOTING INSTALLATION SHALL INDICATE THAT THE ABOVE NOTE MEETS LOCAL BUILDING CODE REQUIREMENTS.



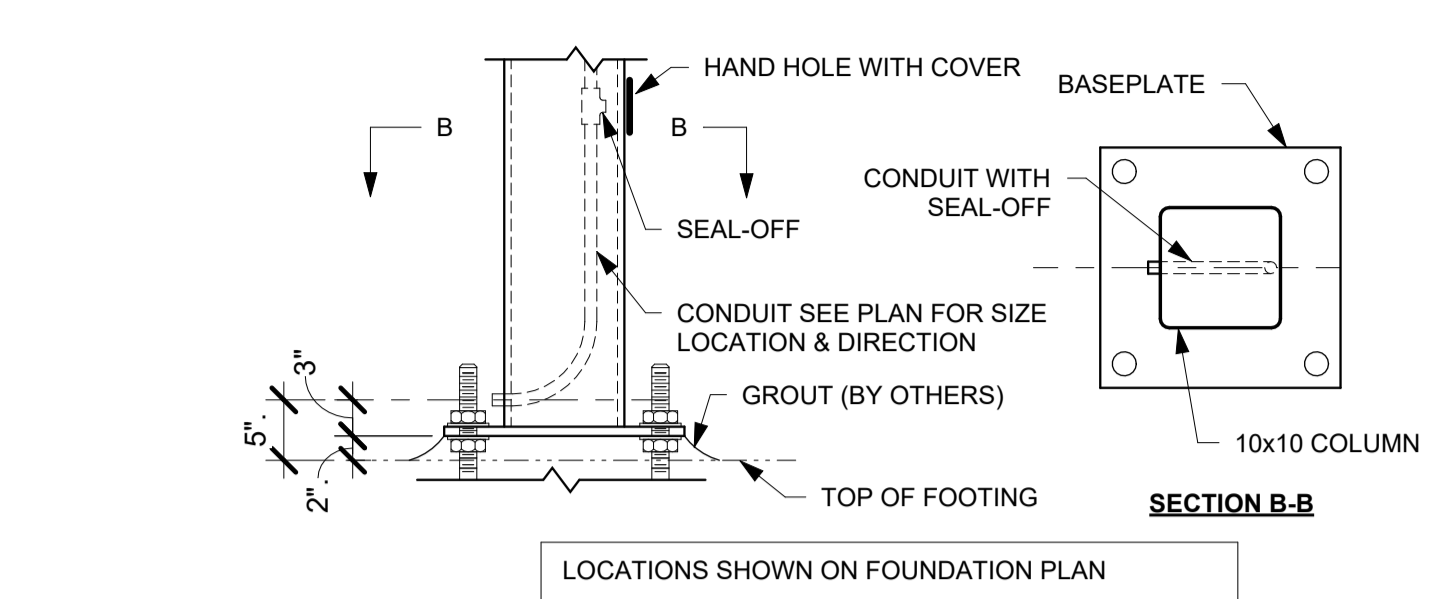
1 FOUNDATION PLAN
1/4" = 1'-0"



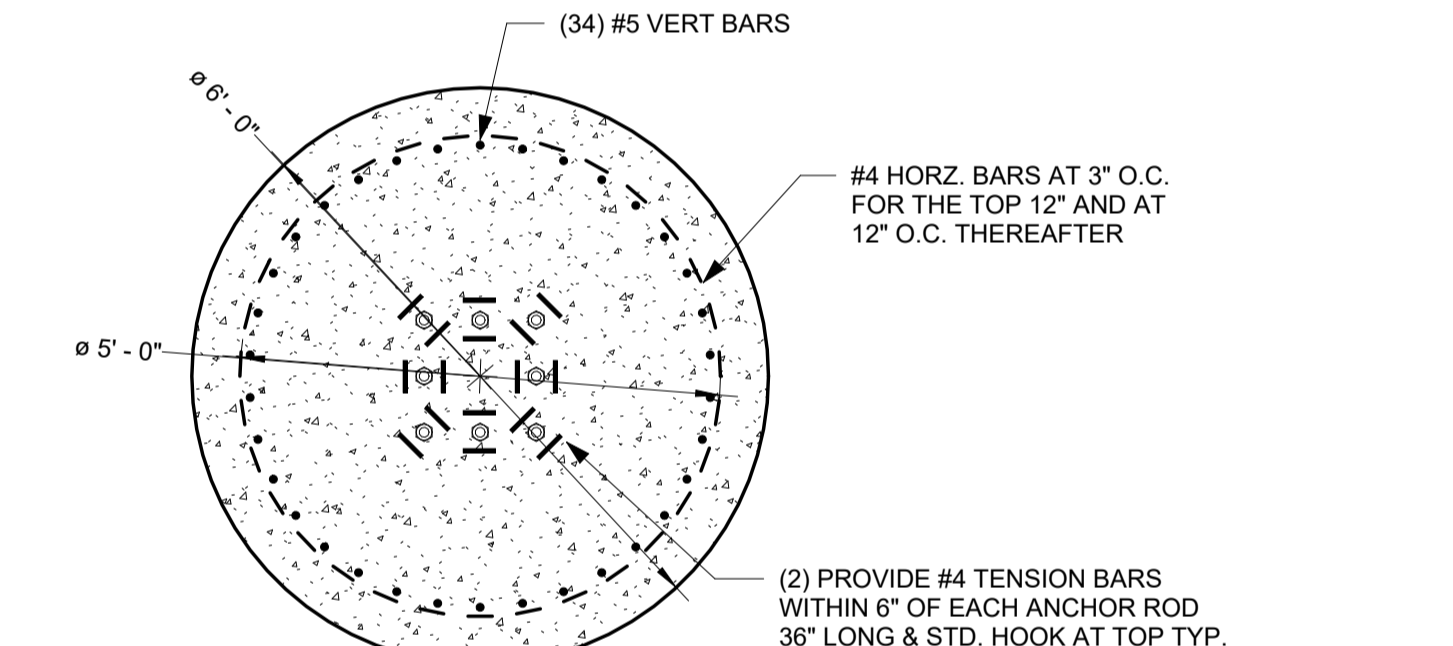
2 FOUNDATION DETAIL
1/2" = 1'-0"



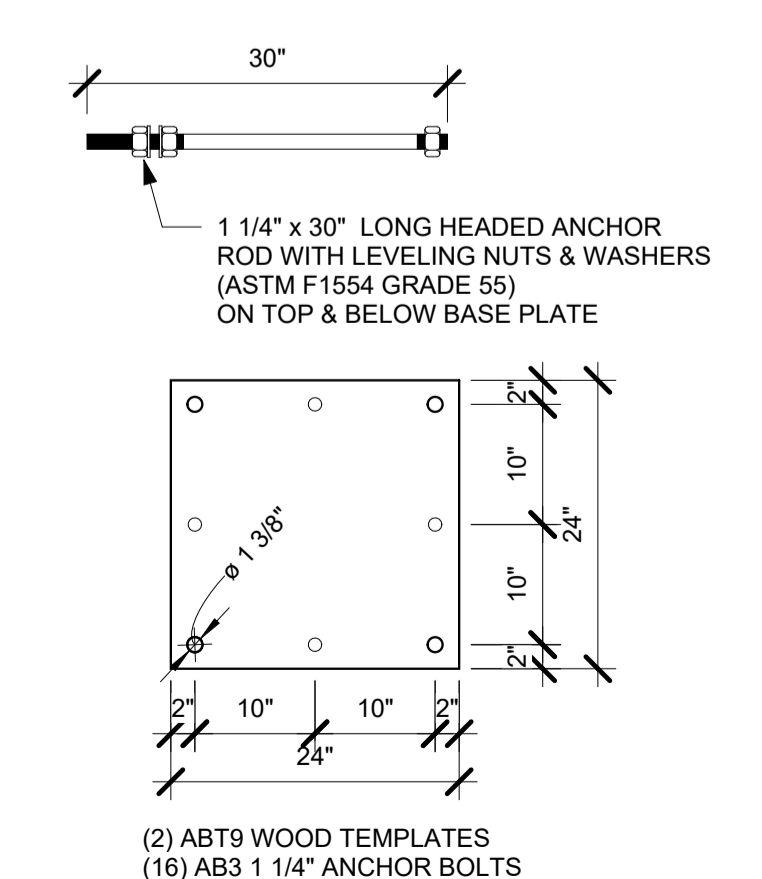
8 OPTIONAL ROUND FOUNDATION DETAIL
1/2" = 1'-0"



7 CONDUIT SQUARE COLUMN
3/4" = 1'-0"



9 FOOTING SECTION (ROUND)
1/2" = 1'-0"



6 ABT9 20"x20" 8 BOLT TEMPLATE
3/4" = 1'-0"

REV.	DATE	BY	DESCRIPTION



AARON R LANDRUM, PE
1201 East 3rd Street
Tulsa, OK 74120
918.518.1124



1019 E. North Street
Ottawa, Kansas 66067
Phone: 785.242.8111

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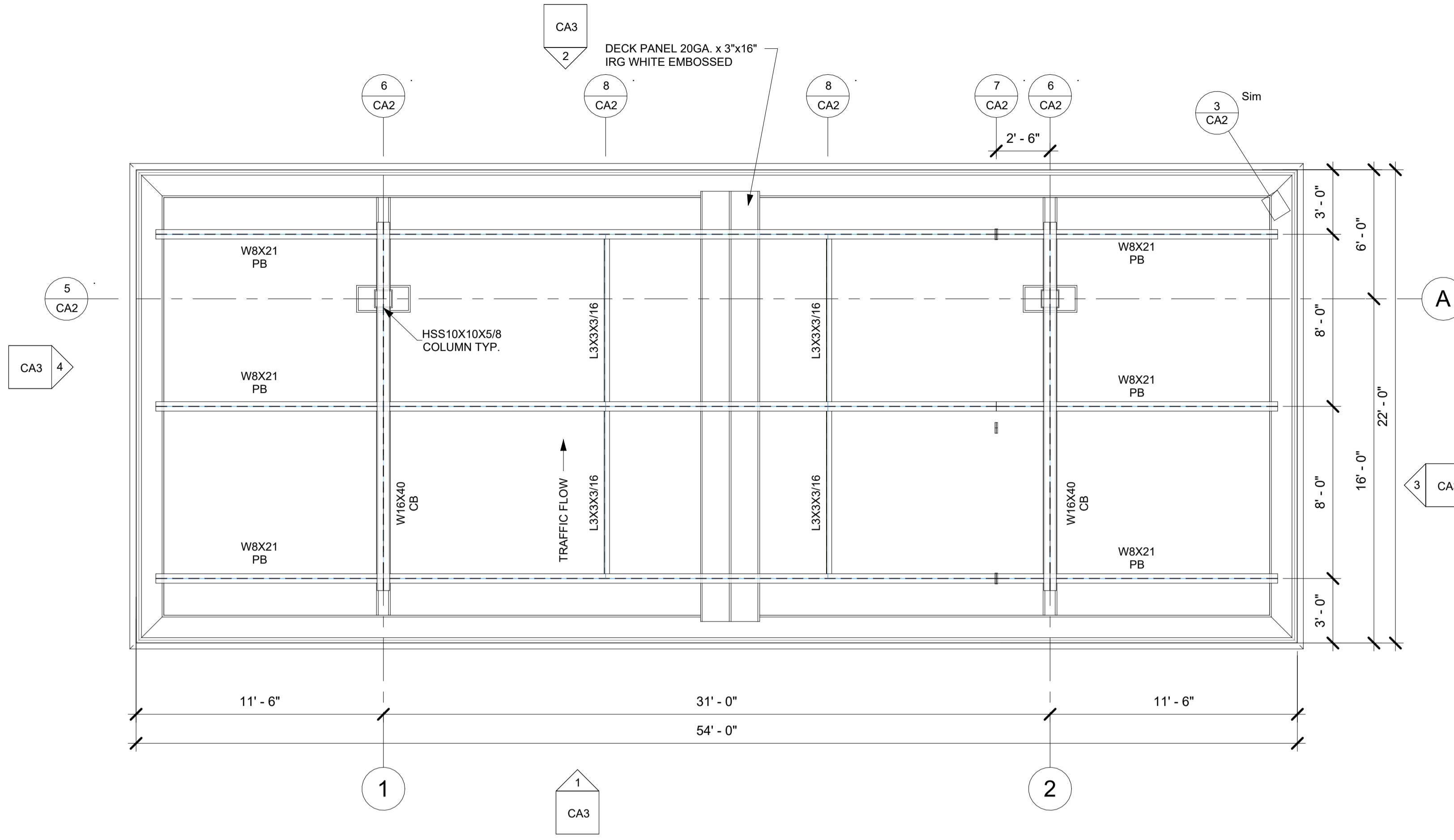
SITE:
ULTIUM / PILOT EV #394
239 ROUTE 17K
NEWBURGH, NY
22'x54'
PULL-IN CANOPY (EV-A)

ISSUE DATE: 12/6/23
DRAWN BY: JLH
CHECKED BY: MB

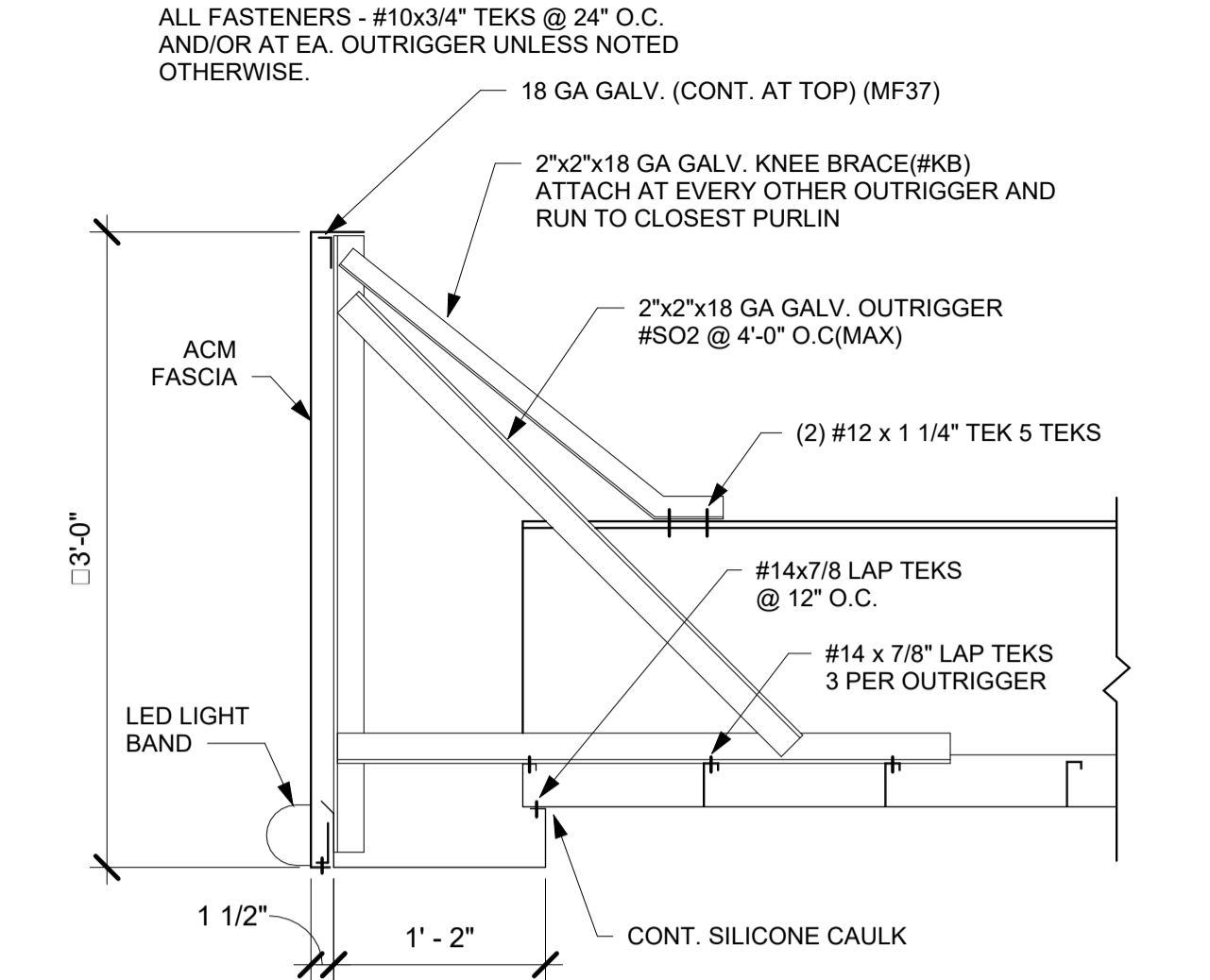
JOB NUMBER: 461320

SHEET TITLE: FOUNDATION PLAN

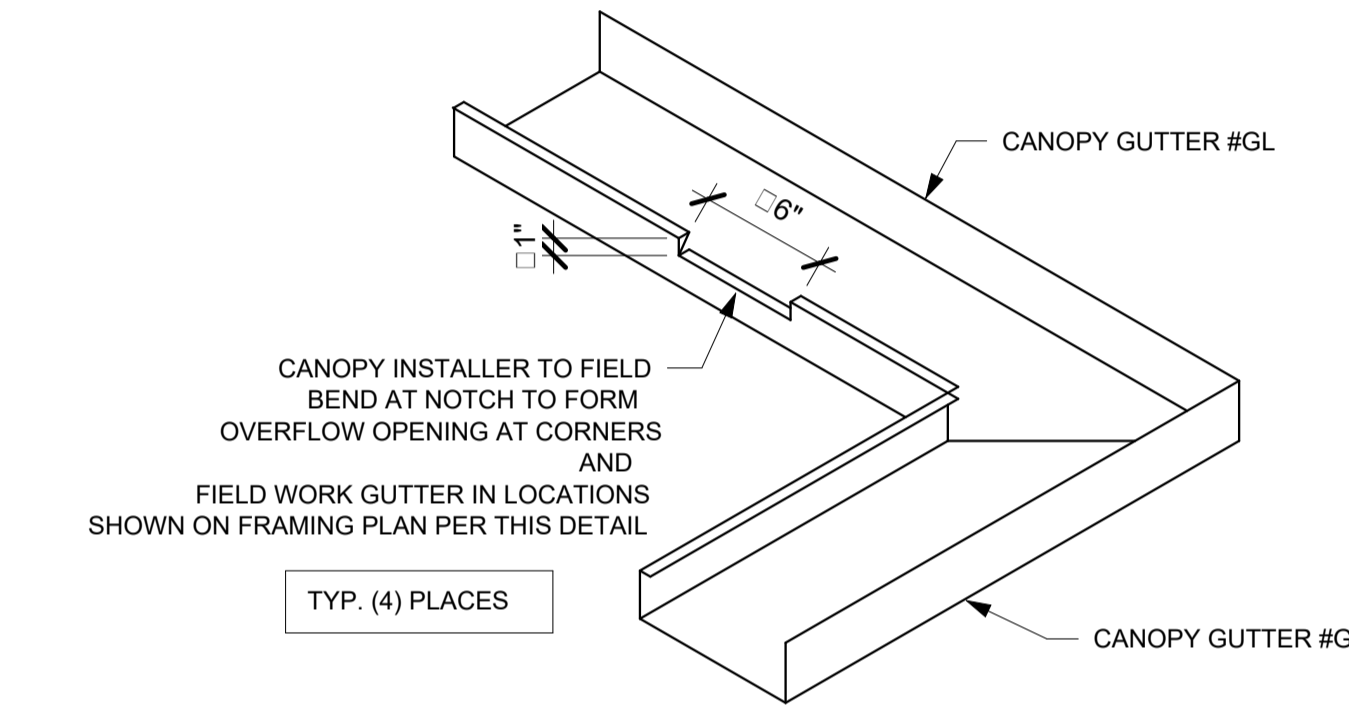
SHEET NUMBER: CA1



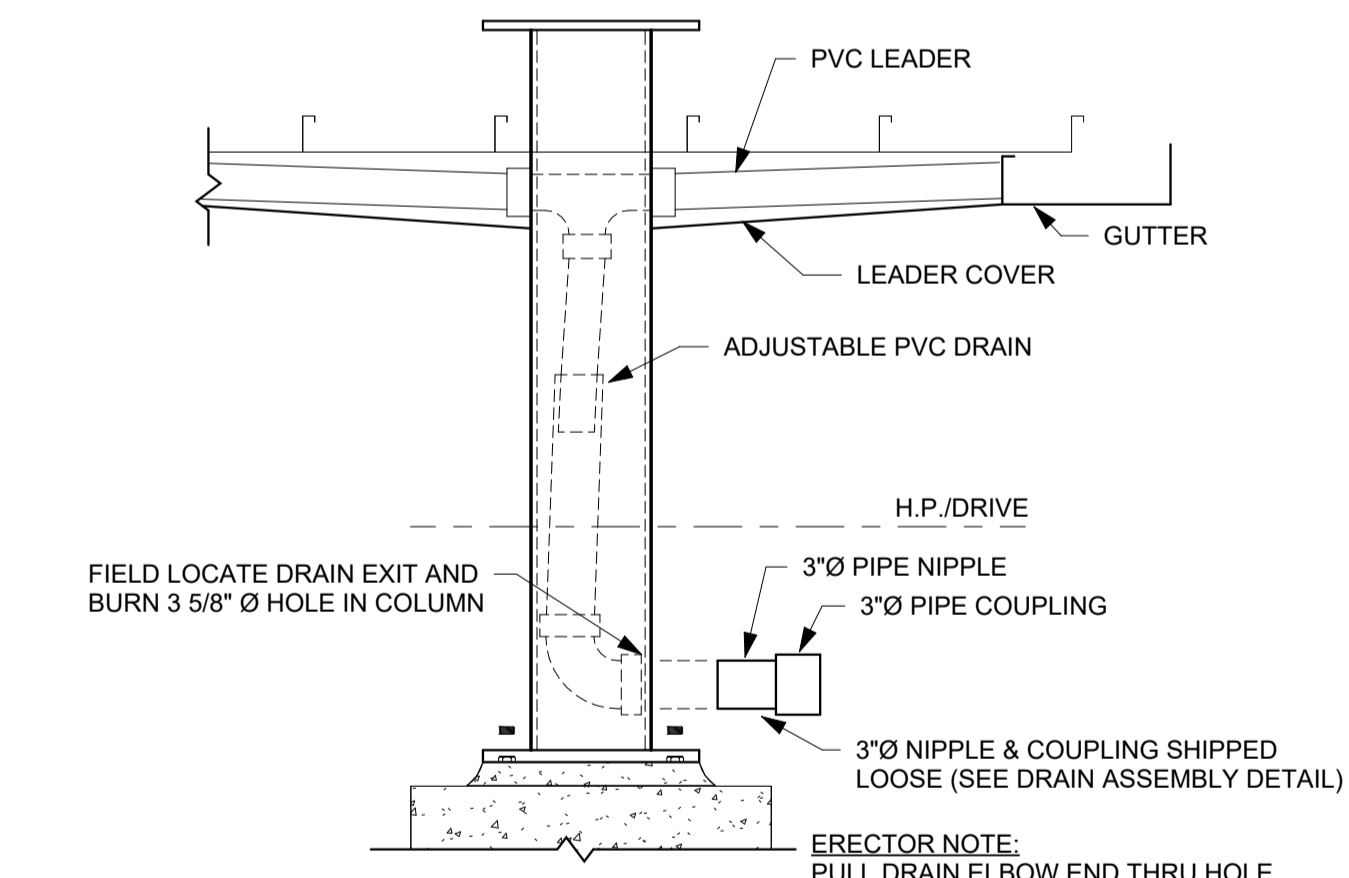
1 FRAMING PLAN
1/4" = 1'-0"



2 TYP. 1 1/2 ACM FASCIA SECTION
1" = 1'-0"

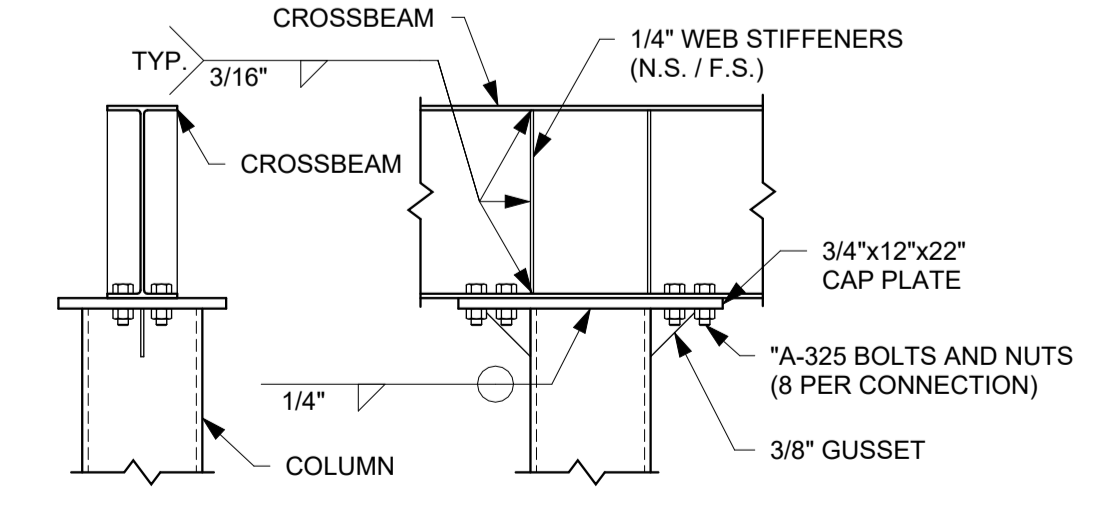


3 G2 SECONDARY OVERFLOW DETAIL
3/4" = 1'-0"

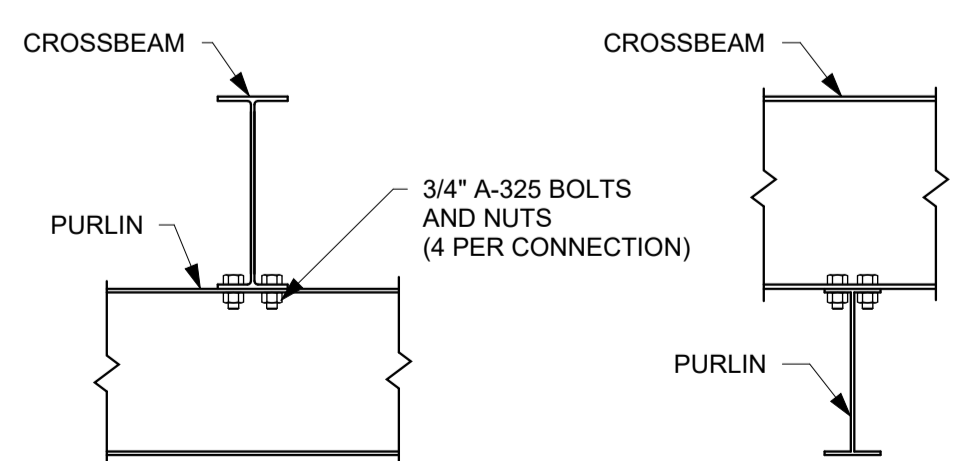


4 G9 DRAIN DETAIL (BELOW GRADE)
3/4" = 1'-0"

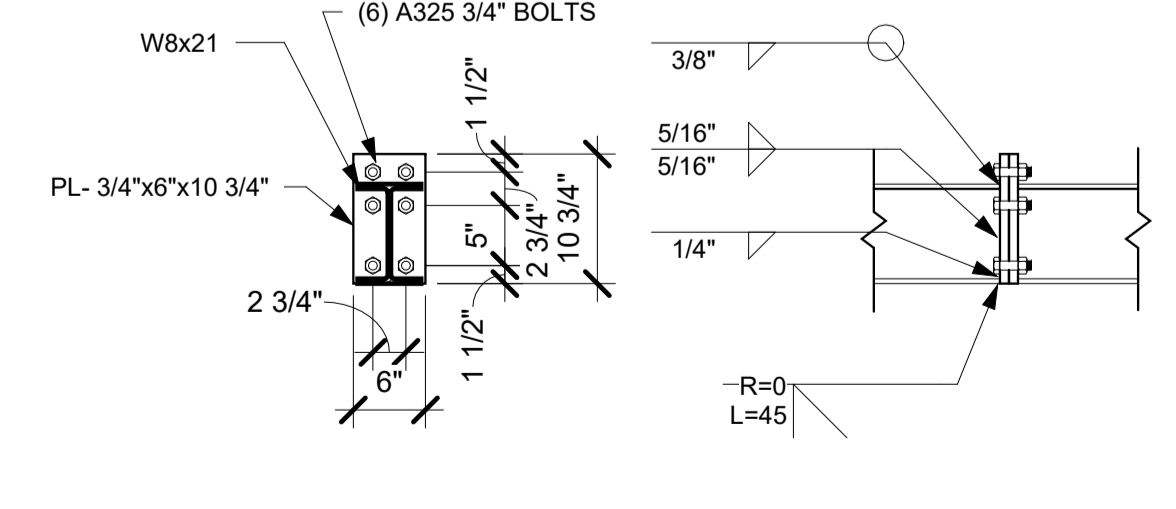
STEEL NOTES
 1. DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST AISC SPECIFICATIONS. DESIGN, FABRICATION AND ERECTION OF COLD FORMED STEEL SECTIONS SHALL CONFORM TO THE LATEST AISI SPECIFICATIONS.
 2. STRUCTURAL MATERIALS:
 WIDE FLANGE SECTIONS - ASTM A992 OR A572 GRADE 50 (F_y = 50 KSI)
 ANGLES / CHANNELS - ASTM A36 (F_y = 36 KSI)
 HOLLOW STRUCTURAL SECTIONS (TUBE) - ASTM A500 GRADE B (F_y = 46 KSI)
 PIPE SECTIONS - ASTM A53, GRADE B (F_y = 35 KSI)
 PLATE - ASTM A36 (F_y = 36 KSI)
 FASCIA - ACM FASCIA
 ROOF DECK - ASTM A653, GRADE 50 (F_y = 50 KSI), GALVANIZED (G60) WITH BAKED ENAMEL FINISH
 STEEL OUTRIGGERS - ASTM A653 GR. CS (F_y = 25 KSI), GALVANIZED (G90) PER ASTM 924
 STRUCTURAL BOLTS - ASTM A325
 ANCHOR BOLTS - ASTM F1554 GR. 55
 3. WELDING OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH LATEST ANSI / AWS D1.1
 4. FIELD CONNECTIONS SHALL BE BOLTED CONNECTIONS UNLESS SPECIFIED ON DRAWING.
 5. ALL STRUCTURAL BOLTED CONNECTIONS SHALL USE ASTM A325 BOLTS. BOLTED JOINTS SHALL BE TIGHTENED TO SNUG TIGHT PER LATEST RCSC SPECIFICATION.
 6. STRUCTURAL STEEL SHALL BE SHOP COATED WITH A RED-OXIDE RUST INHIBITIVE PRIMER. FIELD TOUCH-UP, FINISH PAINTING, AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE OWNER (UNLESS OTHERWISE SPECIFIED).
 7. DESIGN LOADS:
 ROOF LIVE LOAD = 20.0 PSF
 FLAT ROOF SNOW LOAD = 42.0 PSF
 BASED ON GROUND SNOW LOAD = 50.0 PSF
 WIND LOADS:
 LATERAL = 63.3 PSF (ULTIMATE)
 UPLIFT = 23.7 PSF (ULTIMATE)
 BASED ON 115 MPH 3 SECOND GUST WIND SPEED AND EXPOSURE 'C' PER ASCE 7-10.
 RISK CATEGORY II
 SEISMIC LOADS:
 SEISMIC RISK CATEGORY II, SITE CLASS "D" ASSUMED, SEISMIC DESIGN CATEGORY "B"
 S₀₅ = 0.238g (S_s = 0.223g, F_a = 1.6), S₀₁ = 0.09g (S₁ = 0.056g, F_v = 2.4)
 SEISMIC FORCE RESISTING SYSTEM IS ORDINARY STEEL CANTILEVERED COLUMN SYSTEM, R = 1.25
 C_s = 0.190
 DEAD LOADS:
 DECK / GUTTER / LIGHTS - 4.5 PSF
 FASCIA - 2.5 PSF
 STRUCTURAL STEEL - SELF WT
 CONCRETE - 150 PCF
 LOADS TO BE APPLIED PER THE CITY CODES ARE LESSER THAN DESIGN LOADS THAT THE CANOPY FRAMING MEMBERS AND FOOTING ARE DESIGNED FOR, HENCE THE STRUCTURAL DESIGN IS CONSERVATIVE



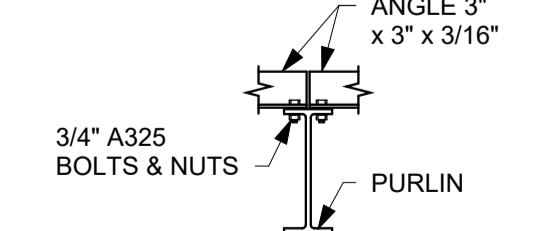
5 S10 - CB TO CL 8 BOLT W/ GUSSETS
3/4" = 1'-0"



6 S20 CB TO PB
3/4" = 1'-0"



7 XS1 MOMENT SPLICE
3/4" = 1'-0"



8 S30 ANGLE BRACE
3/4" = 1'-0"

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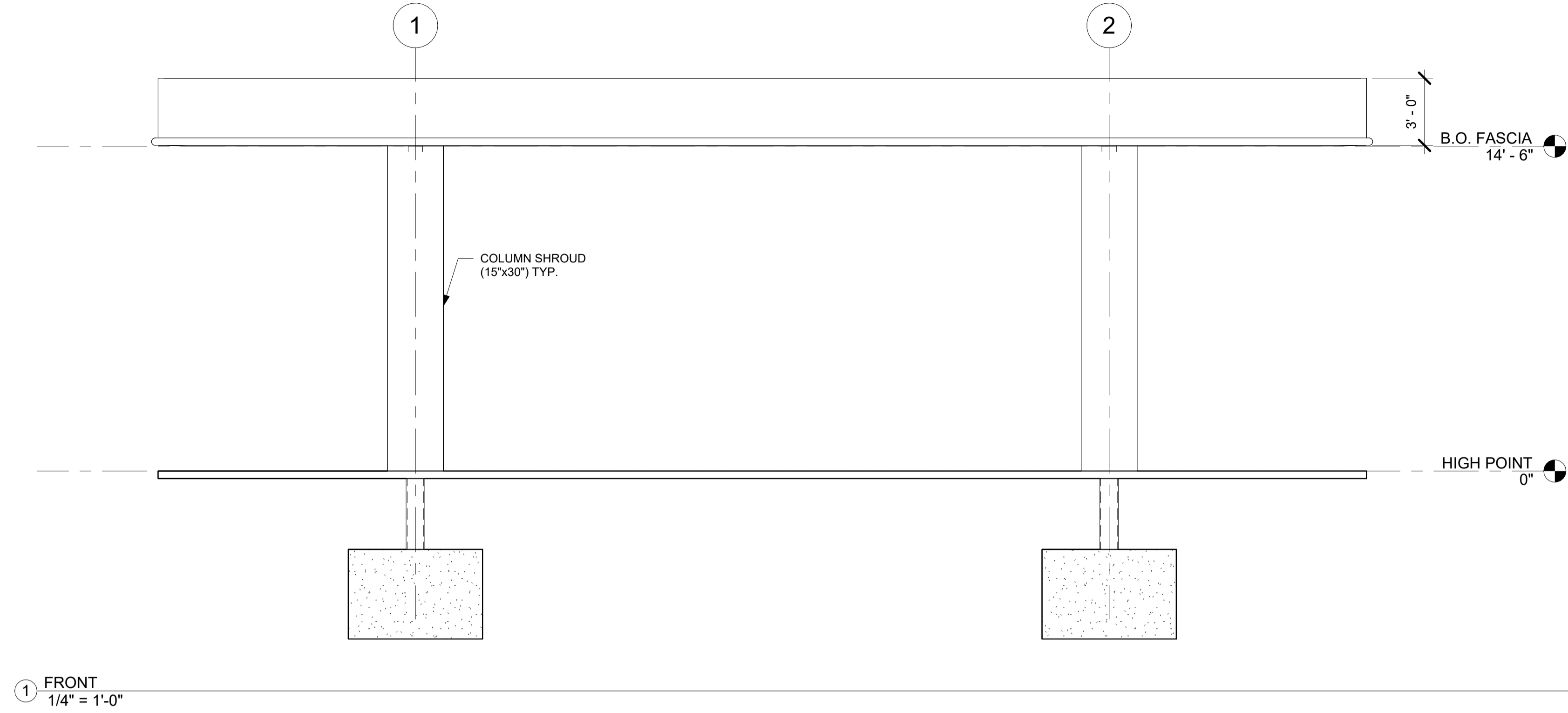
ULTIUM / PILOT EV #394
 239 ROUTE 17K
 NEWBURGH, NY
 22'x54'
 PULL-IN CANOPY (EV-A)

ISSUE DATE: 12/06/23
 DRAWN BY: JLH
 CHECKED BY: MB

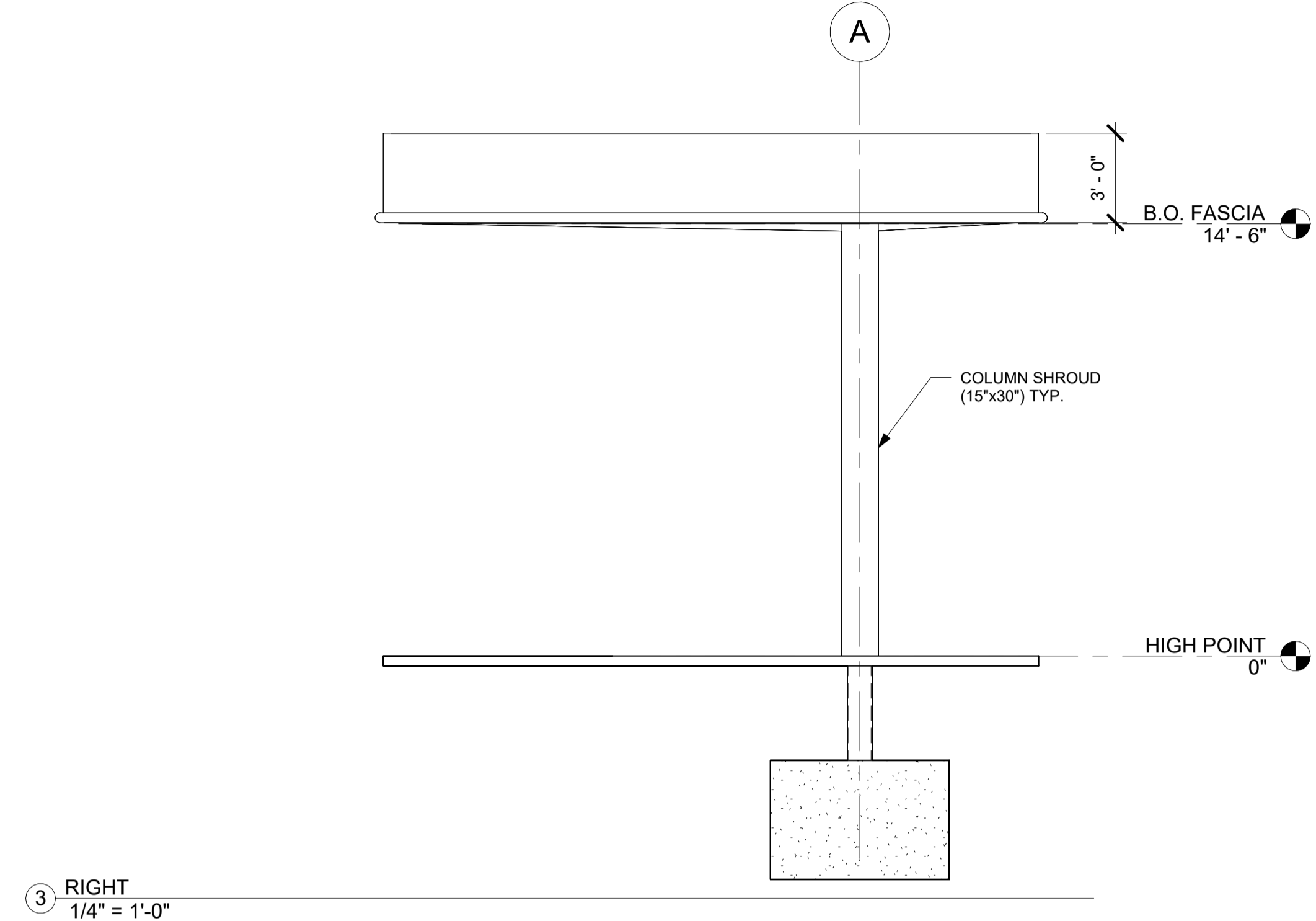
SHEET NUMBER: 461320

SHEET TITLE: FRAMING PLAN

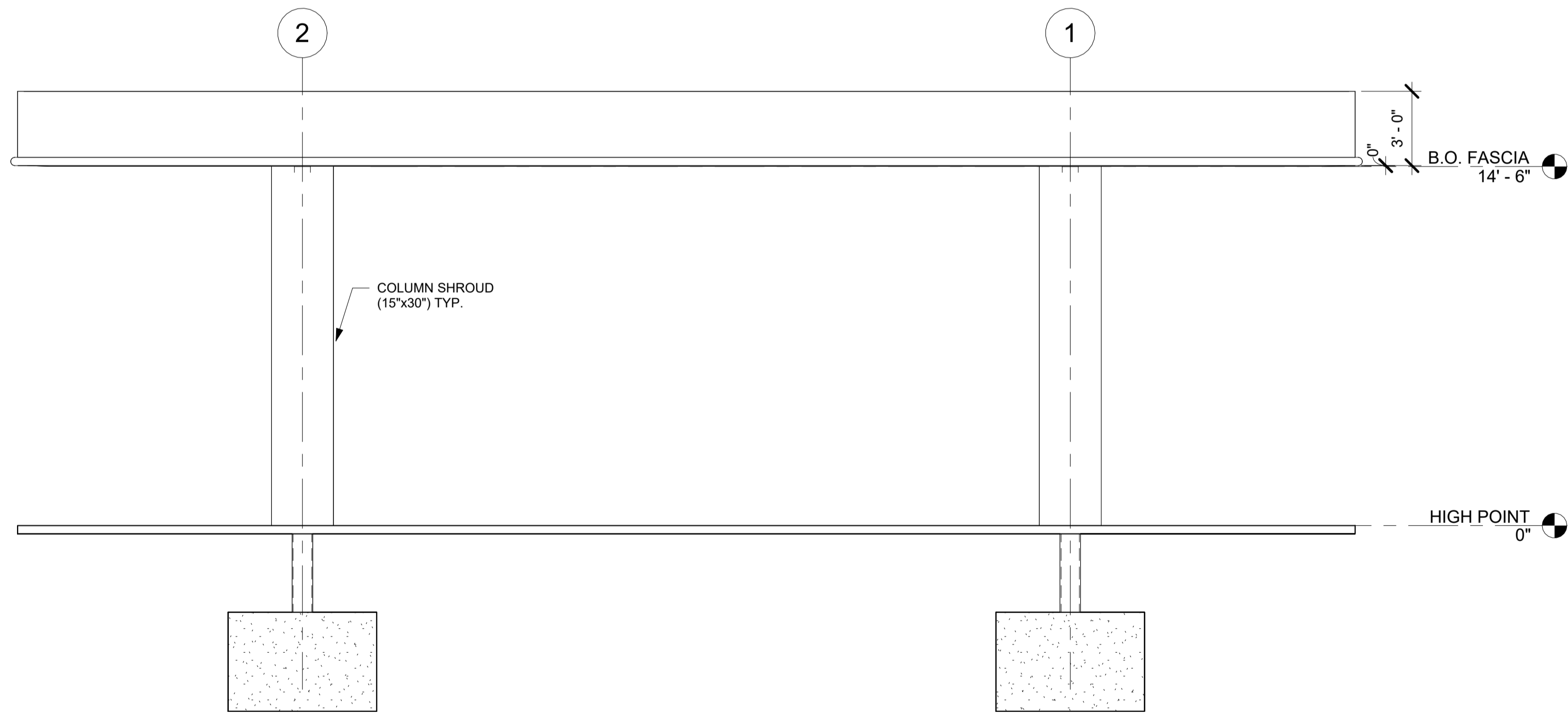
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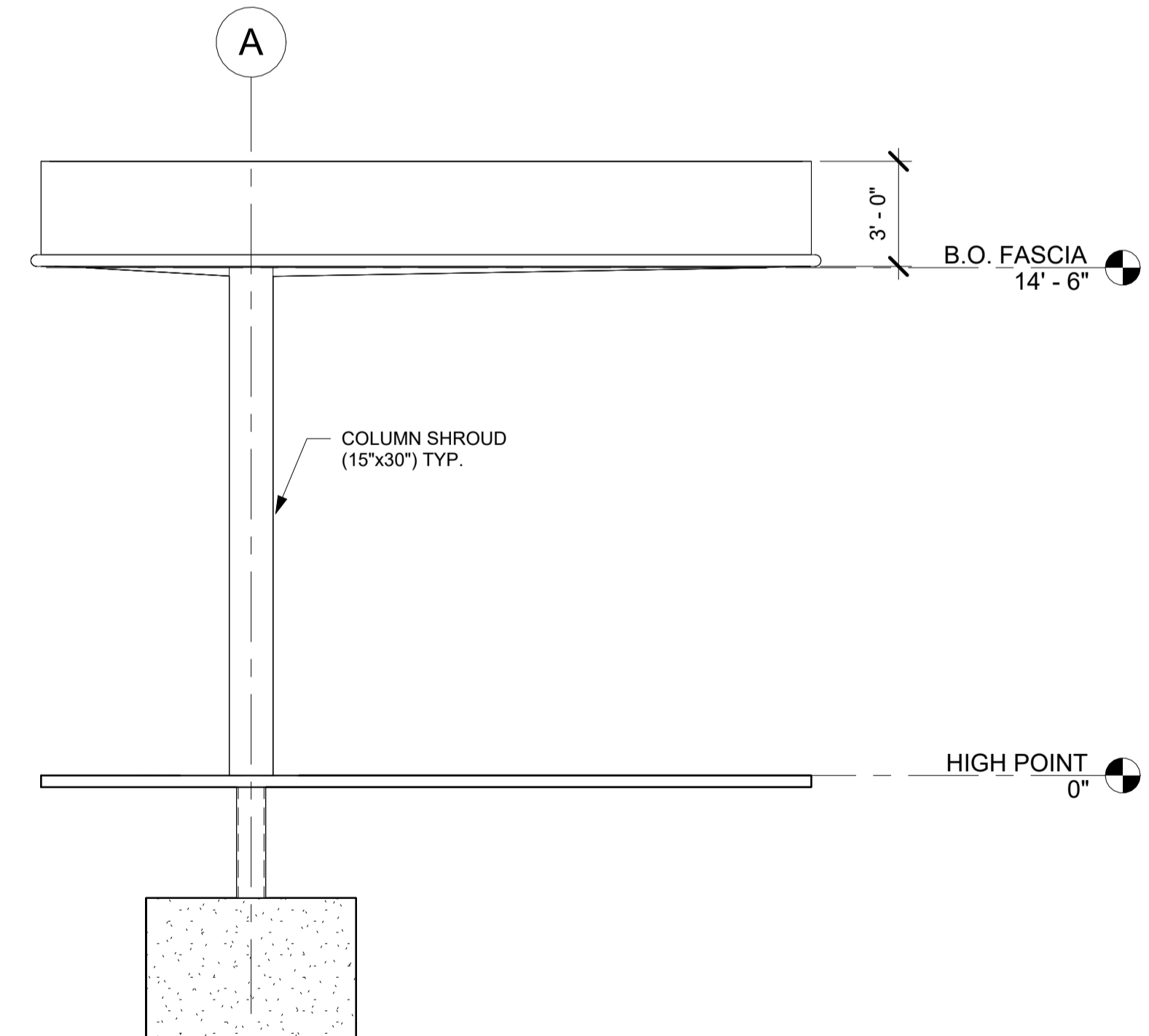
1 FRONT
1/4" = 1'-0"



3 RIGHT
1/4" = 1'-0"



2 REAR
1/4" = 1'-0"



4 LEFT
1/4" = 1'-0"

SEE SHEET CA5 FOR FASCIA SIGNAGE

REV.	DATE	BY	DESCRIPTION



12/06/2023
AARON R LANDRUM, PE
1201 East 3rd Street
Tulsa, OK 74120
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1019 E. North Street
Ottawa, Kansas 66067
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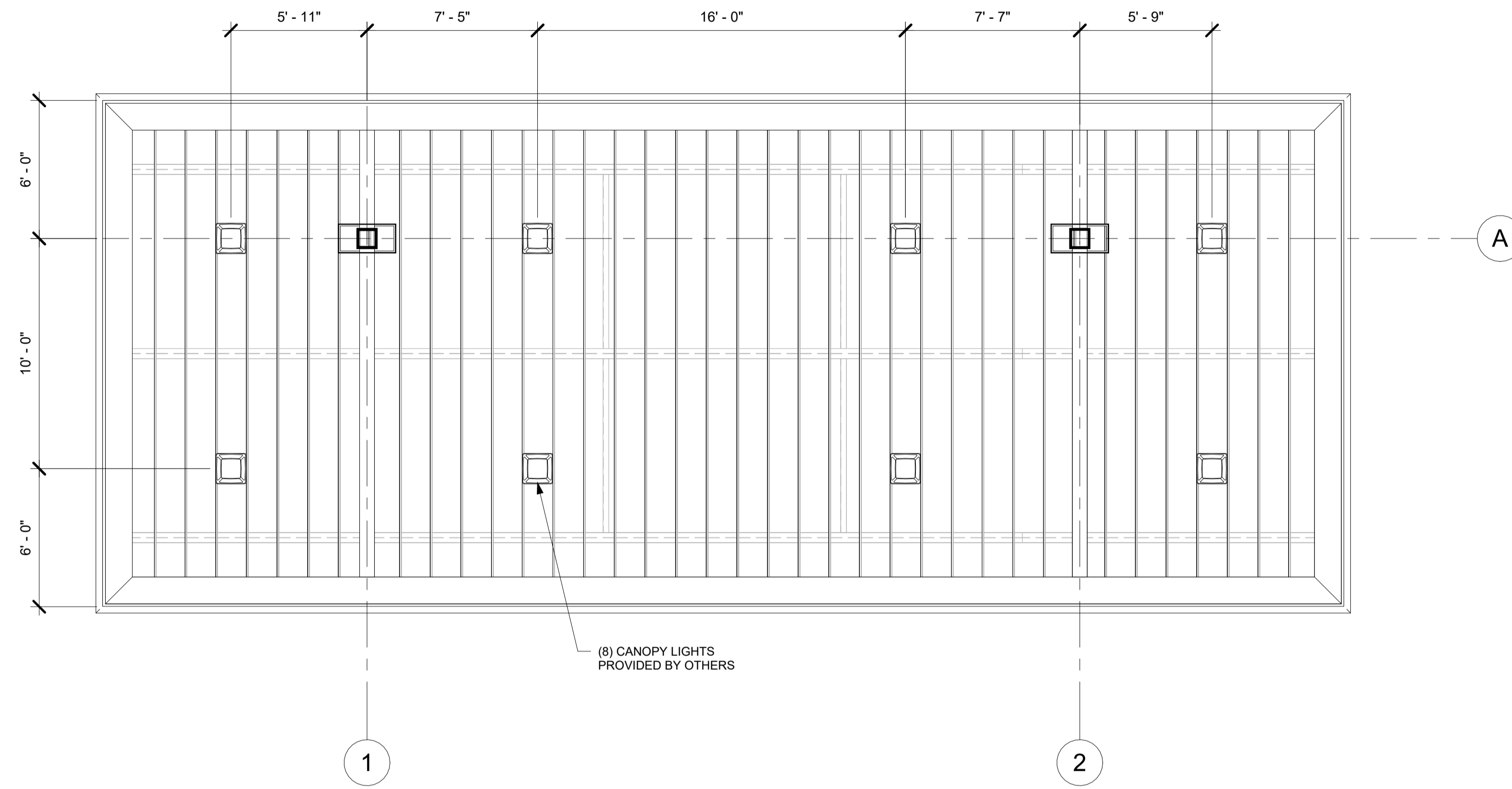
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ISSUE DATE: 12/6/23	DRAWN BY: JLH	CHECKED BY: MB
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JOB NUMBER:
461320

SHEET TITLE:
ELEVATIONS

SHEET NUMBER:
CA3



1 REFLECTED CEILING PLAN
1/4" = 1'-0"

REV.	DATE	BY	DESCRIPTION



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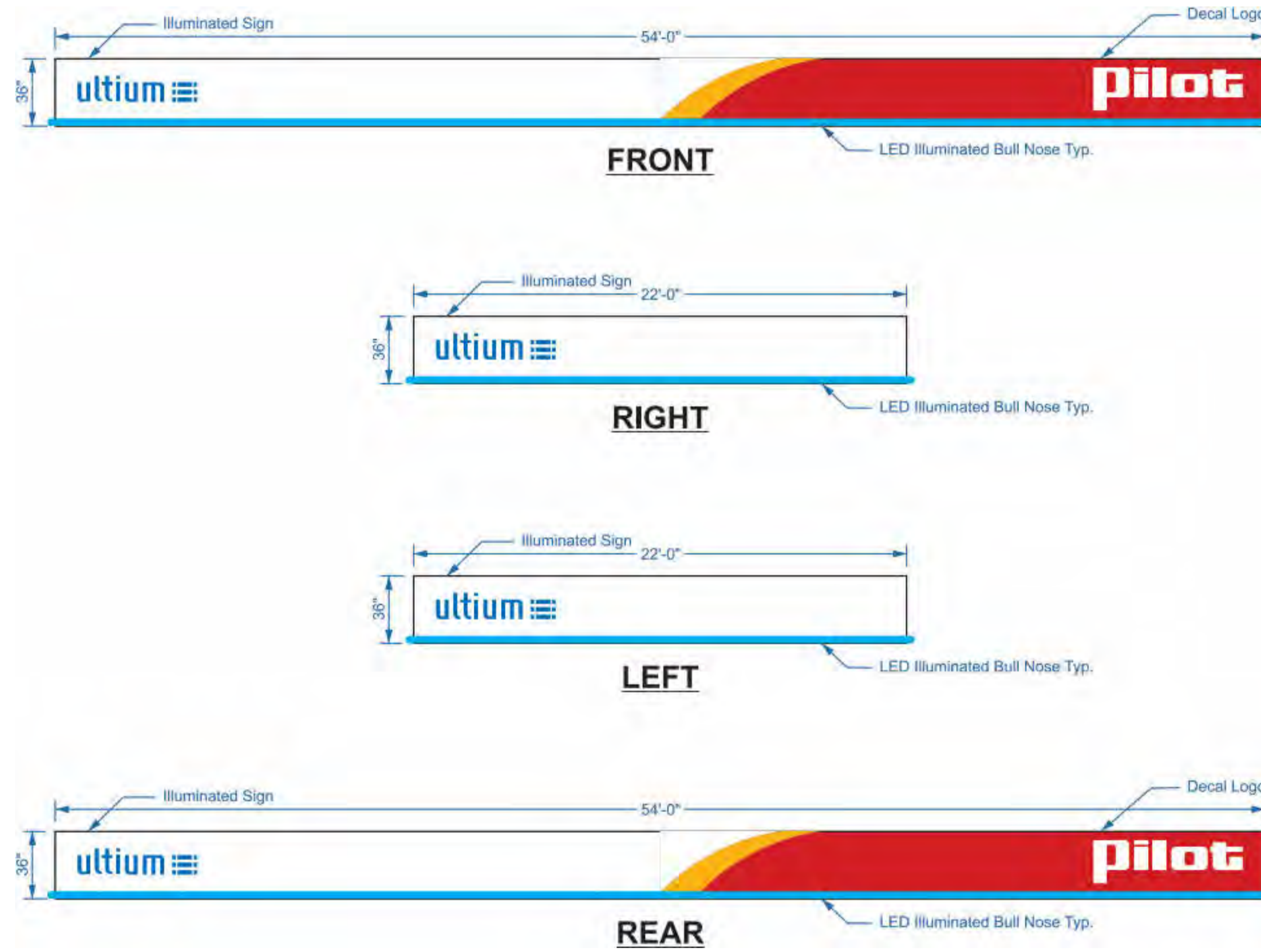
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PULL-IN CANOPY (EV-A)

ISSUE DATE: 12/6/23	DRAWN BY: JLH	CHECKED BY: MB
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JOB NUMBER:
461320

SHEET TITLE:
REFLECTED CEILING PLAN

SHEET NUMBER:
CA4



REV.	DATE	BY	DESCRIPTION



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 ULTIUM / PILOT EV #394
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ISSUE DATE: 12/6/23	DRAWN BY: JLH	CHECKED BY: MB
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JOB NUMBER: 461320

SHEET TITLE: FASCIA SIGNAGE

SHEET NUMBER: CA5