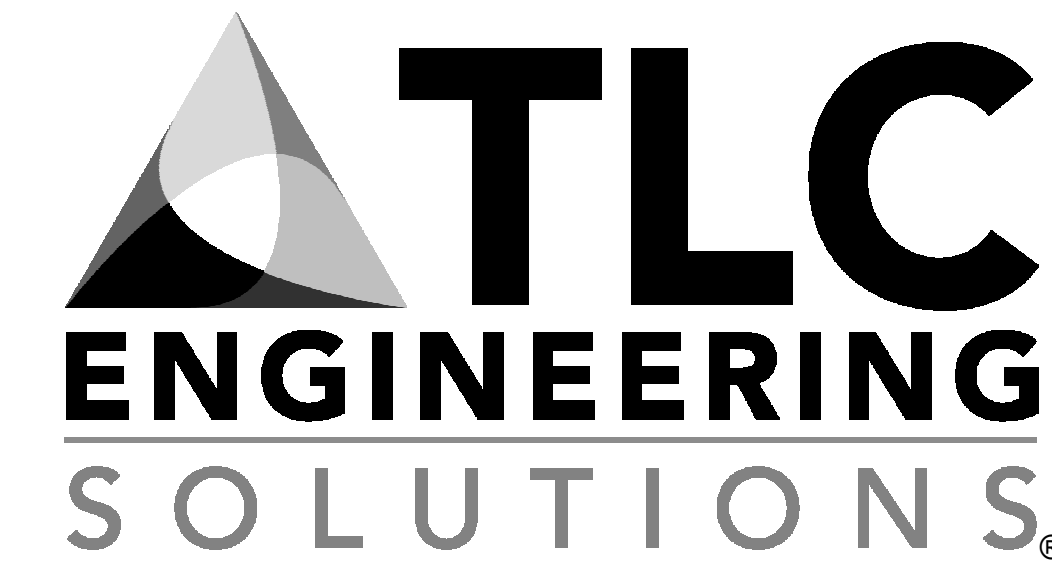


# MELVIN MORGAN CONSTITUTIONAL COMPLEX GENERATOR REPLACEMENT

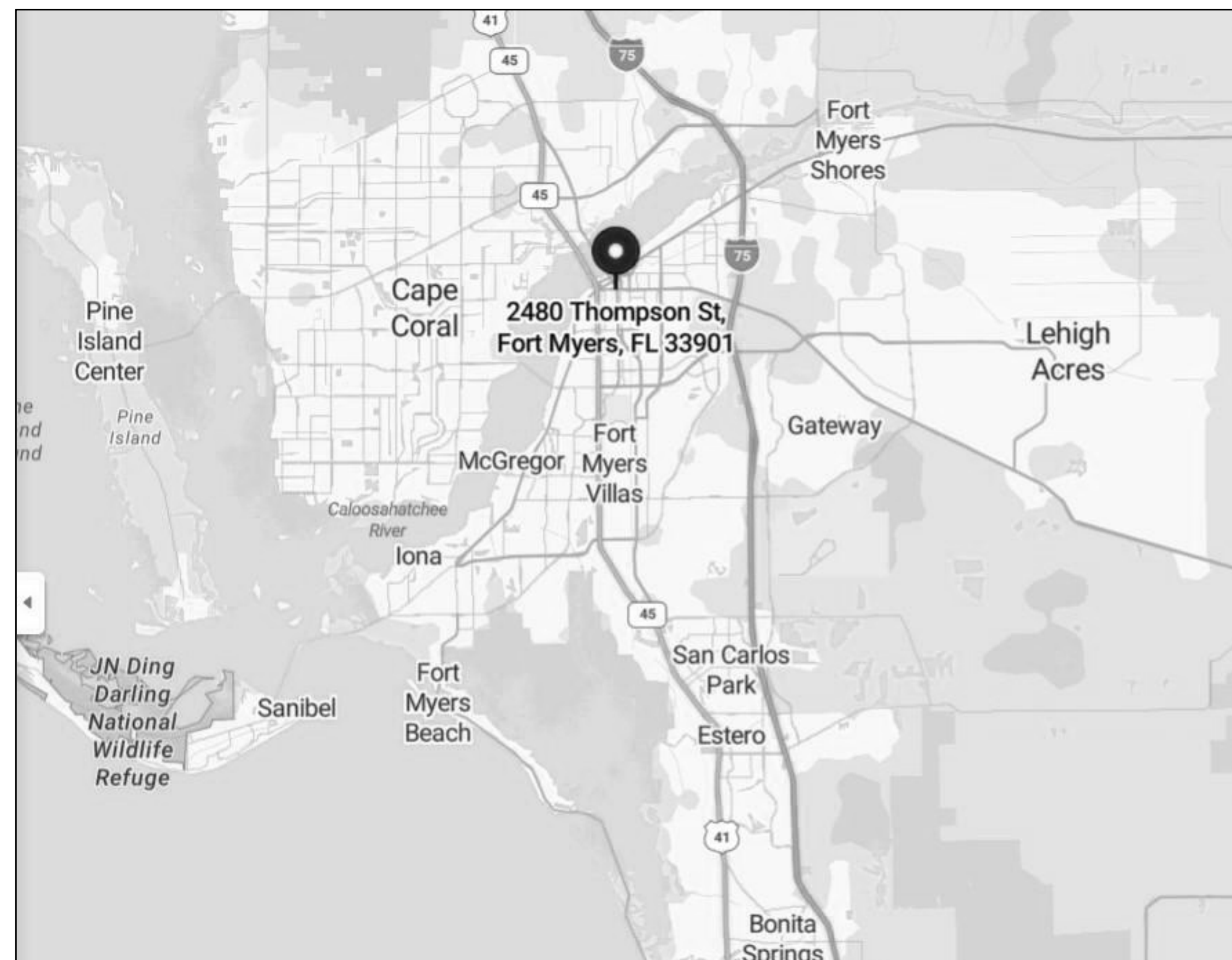
2480 THOMPSON ST  
FORT MYERS, FL 33901

07/24/2024

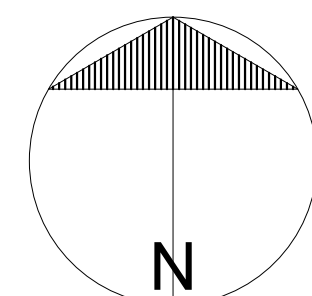


13099 S. Cleveland Avenue,  
Suite 500  
Fort Myers, FL 33907  
P 239.275.4240  
www.tlc-engineers.com  
COA 15

© Copyright 2024 TLC Engineering Solutions, Inc.  
TLC Project No. : 722049  
**THINK. LISTEN. CREATE.**



SITE LOCATION MAP



PROJECT SHEET INDEX		
Sheet Number	Sheet Name	Sheet Issue Date
G001	PROJECT COVER SHEET	06/25/2024
C-00.01	CIVIL COVER SHEET	06/25/2024
C-00.10	GENERAL NOTES	06/25/2024
C-10.00	EXISTING CONDITIONS AND CLEARING PLAN	06/25/2024
C-20.00	SITE PLAN	06/25/2024
S.1	TYPICAL PLAN SHEET	03/22/2024
E001	ELECTRICAL LEGEND & NOTES	06/25/2024
E101	POWER PLANS - DEMO	06/25/2024
E201	POWER PLANS - NEW	06/25/2024
E301	ELECTRICAL DETAILS	06/25/2024
E302	ELECTRICAL DETAILS	06/25/2024

Drawing Title:  
**PROJECT COVER SHEET**

Drawing No.:  
**G001**



















REVISIONS		
NO.	DATE	DESCRIPTION

**MELVIN MORGAN  
 CONSTITUTIONAL CENTER**

2480 THOMPSON ST FORT MYERS, FL 33901

SEAL \_\_\_\_\_

ISSUED DATE: 03-22-2024
DRAWN BY: SK
ENGINEERED BY: AM
SCALE: As indicated
JOB NO.: 24190

SHEET TITLE:  
**TYPICAL PLAN SHEET**

SHEET NO.:  
**S.1**

**GENERAL STRUCTURAL NOTES**

GENERAL: DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE TYPICAL AND APPLY TO SIMILAR SITUATIONS ELSEWHERE, EXCEPT AS OTHERWISE INDICATED. ADAPT REQUIREMENTS OF DETAILS, SECTIONS, PLANS, AND NOTES AT LOCATIONS WHERE CONDITIONS ARE SIMILAR.

CENTER ALL FOOTINGS AND PIERS UNDER COLUMNS ABOVE UNLESS SPECIFICALLY DIMENSIONED OTHERWISE.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

CONTRACTOR SHALL LOCATE ALL BURIED UTILITIES PRIOR TO EXCAVATION FOR BUILDING FOUNDATIONS. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF POTENTIAL CONFLICTS BETWEEN FOUNDATIONS AND BURIED UTILITIES.

CODE REQUIREMENTS: THE BUILDING STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE 2023 8th EDITION OF THE FLORIDA BUILDING CODE. FOLLOW ALL APPLICABLE PROVISIONS FOR ALL PHASES OF CONSTRUCTION. ADDITIONS ARE IN COMPLIANCE WITH THE 2023 EDITION OF THE FLORIDA EXISTING BUILDING CODE.

DESIGN CRITERIA: DESIGN WAS BASED ON STRENGTH AND DEFLECTION CRITERIA OF THE 2023 FLORIDA BUILDING CODE. THE FOLLOWING LOADS WERE USED FOR DESIGN, WITH LIVE LOADS REDUCED PER THE 2023 FBC.

WIND SPEED (ASCE 7-16) 182 MPH  
 RISK CATEGORY III  
 EXPOSURE B

FOUNDATIONS: FOUNDATION DESIGN IS BASED ON AN ASSUMED ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF FOR SILTY SAND AND GRAVELS. FOUNDATIONS SHALL BEAR ON COMPETENT NATIVE SOIL OR COMPACTED STRUCTURAL FILL. IF QUESTIONABLE SOILS OR POTENTIALLY UNSTABLE CONDITIONS ARE ENCOUNTERED, A GEOTECHNICAL ENGINEER SHALL BE RETAINED TO INVESTIGATE AND PROVIDE RECOMMENDATIONS.

CONCRETE: REINFORCED CONCRETE CONSTRUCTION SHALL CONFORM TO THE FBC AND ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD 28-DAY CYLINDER TESTS PER ASTM C39, AND SHALL BE AS FOLLOWS:

$f_c$  3000 PSI USE FOUNDATIONS/SLAB ON GRADE

CEMENT SHALL CONFORM TO ASTM C150, TYPE 1. FLY ASH CONFORMING TO ASTM C618, TYPE F OR TYPE C, MAY BE USED TO REPLACE UP TO 20% OF THE CEMENT CONTENT, PROVIDED THAT THE MIX STRENGTH IS SUBSTANTIATED BY TEST DATA. COARSE AGGREGATE SHALL CONFORM TO ASTM C33 WITH A MAXIMUM SIZE OF 3/4". FINE AGGREGATE SHALL BE CLEAN, DURABLE, NATURAL SAND CONFORMING TO ASTM C33.

A WATER-REDUCING ADMIXTURE, IF USED, SHALL CONFORM TO ASTM C494 AND USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SHALL BE INCORPORATED IN CONCRETE DESIGN MIXES. A HIGH-RANGE WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494, TYPE F OR G, MAY BE USED IN CONCRETE MIXES, PROVIDING THAT THE SLUMP DOES NOT EXCEED 8".

PROVIDE 3/4" CHAMFERS ON ALL EXPOSED CONCRETE EDGES, UNLESS NOTED OTHERWISE. WHERE INDICATED OR REQUIRED, SLOPE CONCRETE SLABS TO DRAINS SHOWN ON PLUMBING AND/OR ARCHITECTURAL DRAWINGS.

REINFORCING STEEL: REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, FOR DEFORMED BAR AND ASTM A1064 FOR SMOOTH WELDED WIRE FABRIC (W/WF), UNLESS OTHERWISE NOTED. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE WITH #16 ANNEALED IRON WIRE.

ALL DETAILING AND ACCESSORIES SHALL CONFORM TO ACI DETAILING MANUAL SP-66. PROVIDE CHAIRS, SPACERS, BOLSTERS, AND ITEMS IN CONTACT WITH FORMS WITH HOT-DIP GALVANIZED LEGS OR PLASTIC LEGS. ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT BY FORMWORK CONSTRUCTION OR CONCRETE PLACEMENT OPERATIONS. "WET-STICKING" OF REINFORCING IS PROHIBITED.

REQUIRED CONCRETE COVER FOR REINFORCING STEEL (UNLESS NOTED OTHERWISE):

FOOTINGS 3" BOTTOM AND SIDES, 2" TOP  
 SLABS 3/4"

LAP SPLICE CONTINUOUS VERTICAL OR HORIZONTAL BARS IN CONCRETE MEMBERS IN ACCORDANCE WITH ACI 318-14. FOR CLASS "B" TENSION LAP SPLICES. DO NOT SPLICE CONTINUOUS TOP BARS IN BEAMS AT ENDS OF CLEAR SPANS. SHOW ALL SPLICES ON SHOP DRAWINGS. SPLICE LOCATIONS AND METHODS SUBJECT TO APPROVAL OF STRUCTURAL ENGINEER.

AT SLAB RE-ENTRANT CORNERS, PROVIDE (2) #5 X 4'-0" DIAGONAL BARS. AT SLAB AND WALL OPENINGS PROVIDE A MINIMUM OF (2) #5 BARS ALL FOUR SIDES AND DIAGONALLY; EXTEND THESE BARS A LAP DISTANCE OR A MINIMUM OF 24" PAST THE OPENING OR HOOK BARS IF DISCONTINUOUS.

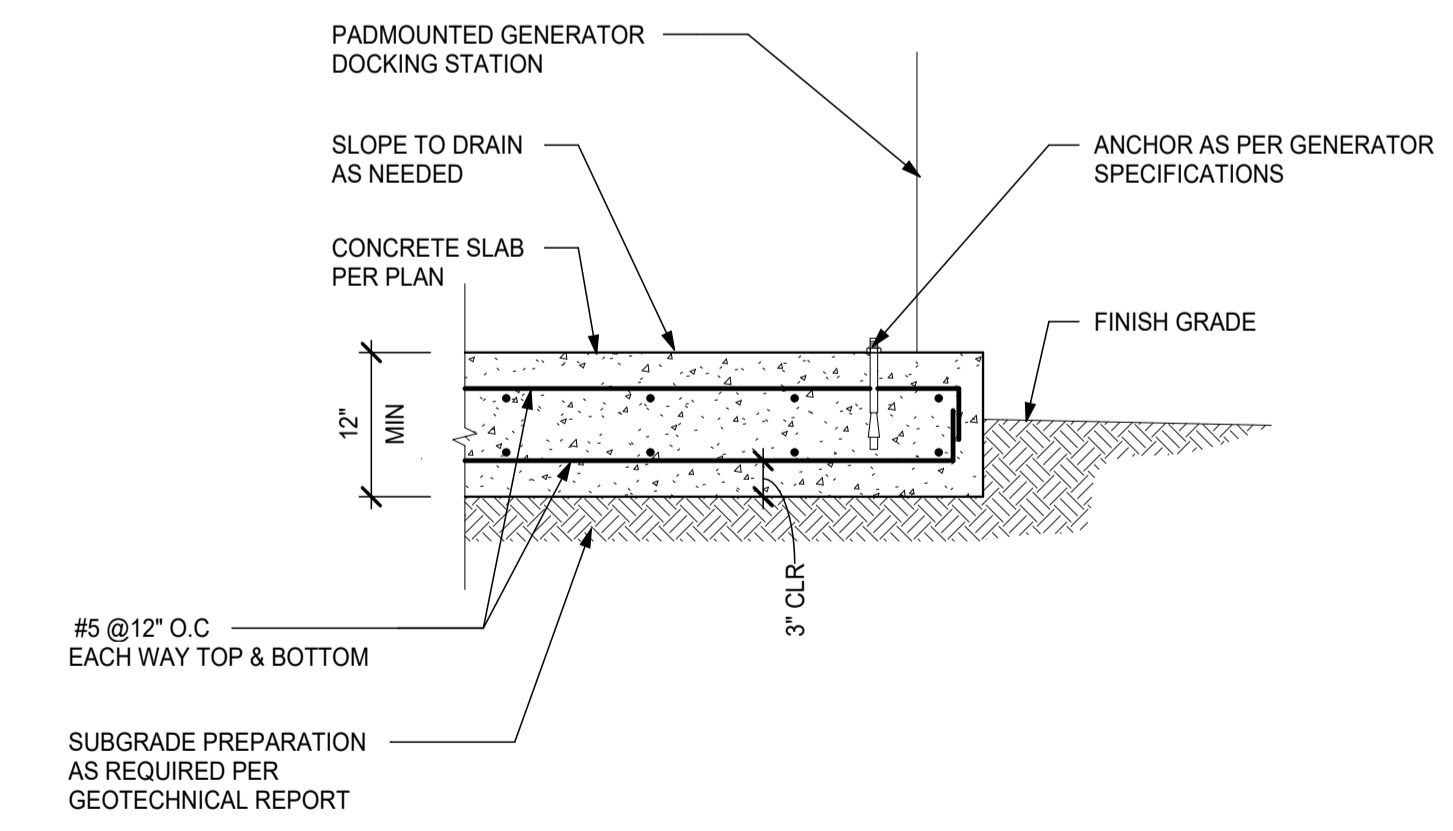
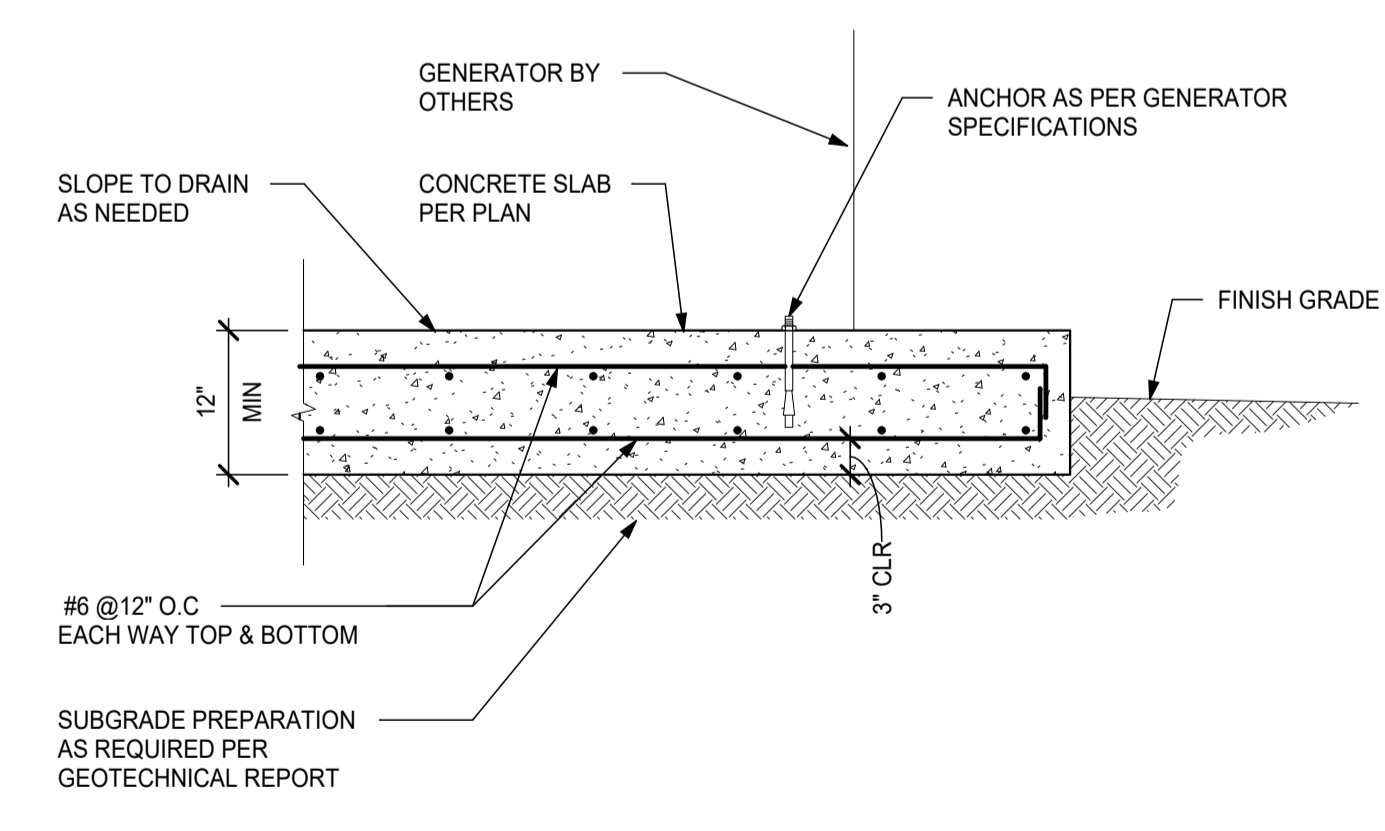
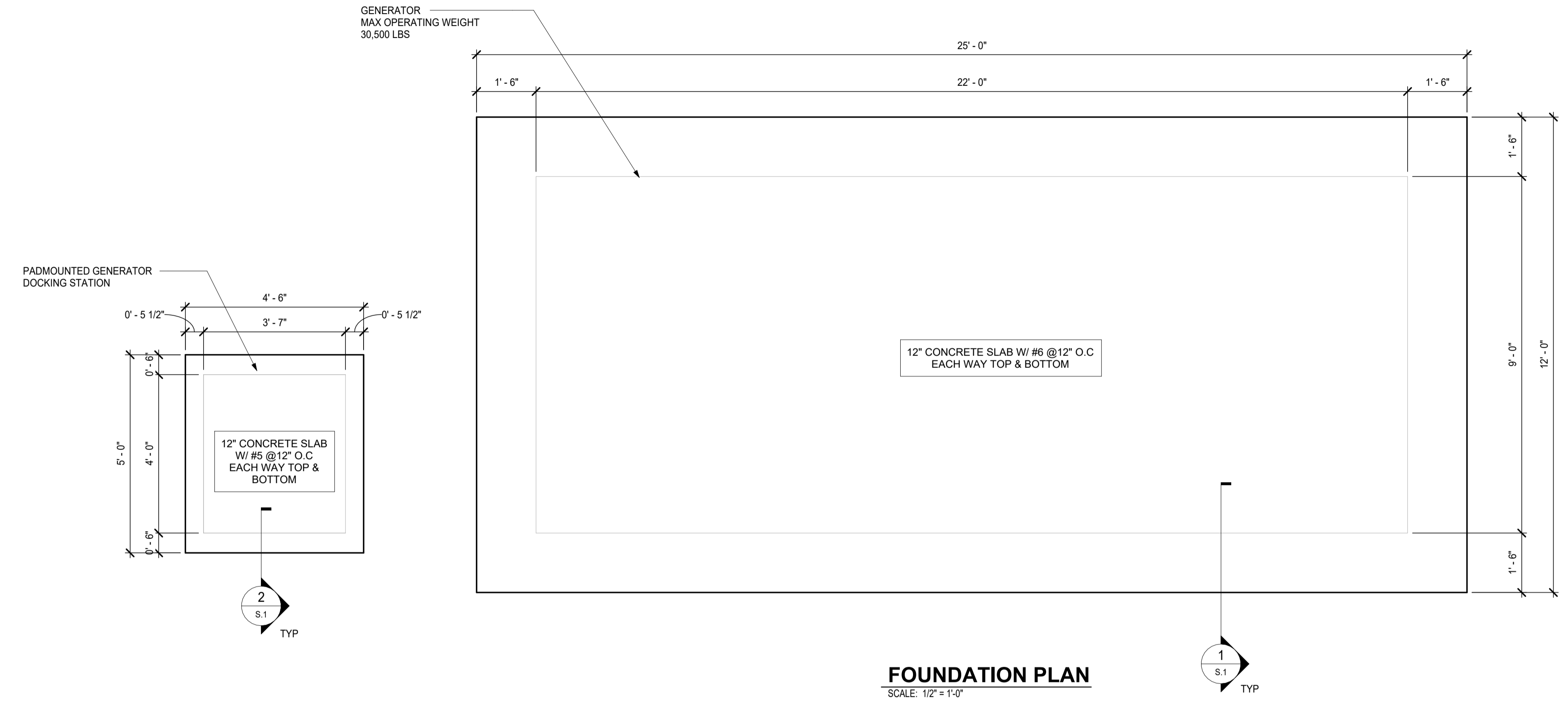
DOWEL ALL WALLS AND COLUMNS TO FOOTINGS WITH BAR SIZE AND SPACING TO MATCH VERTICAL REINFORCING UNLESS OTHERWISE SHOWN.

MECHANICAL ANCHORS: MECHANICAL ANCHORS SHALL HAVE THE ICC-ES EVALUATION REPORT INDICATING CONFORMANCE WITH CURRENT APPLICABLE ICC-ES ACCEPTANCE CRITERIA. MECHANICAL ANCHORS SHALL BE EXPANSION TYPE OR SCREW TYPE AS NOTED ON THE DRAWINGS.

UNLESS OTHERWISE NOTED, PROVIDE CARBON STEEL ANCHORS, ZINC PLATED IN ACCORDANCE WITH ASTM B633 OR HOT-DIPPED GALVANIZED ACCORDING TO ASTM A153. PERMANENTLY EXPOSED ANCHORS SHALL BE STAINLESS STEEL. USE 316 STAINLESS STEEL FOR MECHANICAL EQUIPMENT AND FOR ALUMINUM AND FIBERGLASS STRUCTURES AND ASSEMBLIES. MINIMUM EMBEDMENT FOR MECHANICAL ANCHORS SHALL BE AS FOLLOWS, OR AS NOTED ON THE DRAWINGS:

1. 1/2" DIAMETER - 3 3/4" EMBEDMENT
2. 5/8" DIAMETER - 5" EMBEDMENT
3. 3/4" DIAMETER - 5 3/4" EMBEDMENT

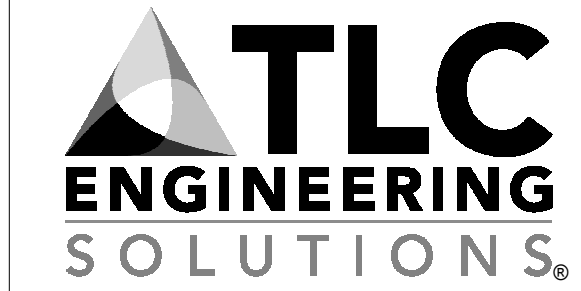
IDENTIFY POSITION OF REINFORCING STEEL AND OTHER EMBEDDED ITEMS PRIOR TO DRILLING HOLES FOR ANCHORS. EXERCISE CARE IN CORING OR DRILLING TO AVOID DAMAGING EXISTING REINFORCING OR EMBEDDED ITEMS. NOTIFY THE ENGINEER IF REINFORCING STEEL OR OTHER EMBEDDED ITEMS ARE ENCOUNTERED DURING DRILLING.



ELECTRICAL SYMBOL LEGEND

ELECTRICAL DEMOLITION NOTES

ELECTRICAL GENERAL NOTES



13099 S. Cleveland Avenue, Suite 500
Fort Myers, FL 33907
P 239.275.4240
www.tlc-engineers.com

COA 15

© Copyright 2024 TLC Engineering Solutions, Inc.
TLC Project No.: 722049
THINK. LISTEN. CREATE.

GENERATOR REPLACEMENT

2480 THOMPSON ST FORT MYERS, FL 33901

Consultants:

Revisions:

Table with 3 columns: No., Date, Description. Includes a 'Seaal' label at the bottom.

Project No.:

722049

Issue Date:

07/24/2024

Drawn By:

OPH

Approved By:

BLS

Scale:

12" = 1'-0"

Drawing Title:

ELECTRICAL LEGEND & NOTES

Drawing No.:

E001

Table with 2 columns: SYMBOL, DESCRIPTION. Includes sections for BASIC MATERIALS, ABBREVIATIONS (CONT.), and APPLICABLE CODES.

Table with 2 columns: SYMBOL, DESCRIPTION. Contains detailed notes for ELECTRICAL DEMOLITION, including removal of equipment, conduits, and structural elements.

ELECTRICAL GENERAL NOTES

Table with 2 columns: SYMBOL, DESCRIPTION. Contains general notes for ELECTRICAL GENERAL, including coordination, safety, and material requirements.

Table with 2 columns: SYMBOL, DESCRIPTION. Contains detailed notes for ELECTRICAL GENERAL, including general requirements, raceways, and conduit specifications.

ELECTRICAL GENERAL NOTES

Table with 2 columns: SYMBOL, DESCRIPTION. Contains detailed notes for ELECTRICAL GENERAL, including general requirements, raceways, and conduit specifications.

Table with 2 columns: SYMBOL, DESCRIPTION. Contains detailed notes for ELECTRICAL GENERAL, including general requirements, raceways, and conduit specifications.

ELECTRICAL GENERAL NOTES

Table with 2 columns: SYMBOL, DESCRIPTION. Contains detailed notes for ELECTRICAL GENERAL, including general requirements, raceways, and conduit specifications.

ELECTRICAL SHEET INDEX

Table with 3 columns: Sheet Number, Sheet Name, Sheet Issue Date. Lists sheets E001 through E032.

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.

WHERE THERE IS A DISCREPANCY BETWEEN ABOVE GENERAL NOTES AND SPECIFICATIONS, WHERE APPLICABLE, SPECIFICATIONS SHALL BE FOLLOWED

WHERE THERE IS A DISCREPANCY BETWEEN ABOVE GENERAL NOTES AND SPECIFICATIONS, WHERE APPLICABLE, SPECIFICATIONS SHALL BE FOLLOWED

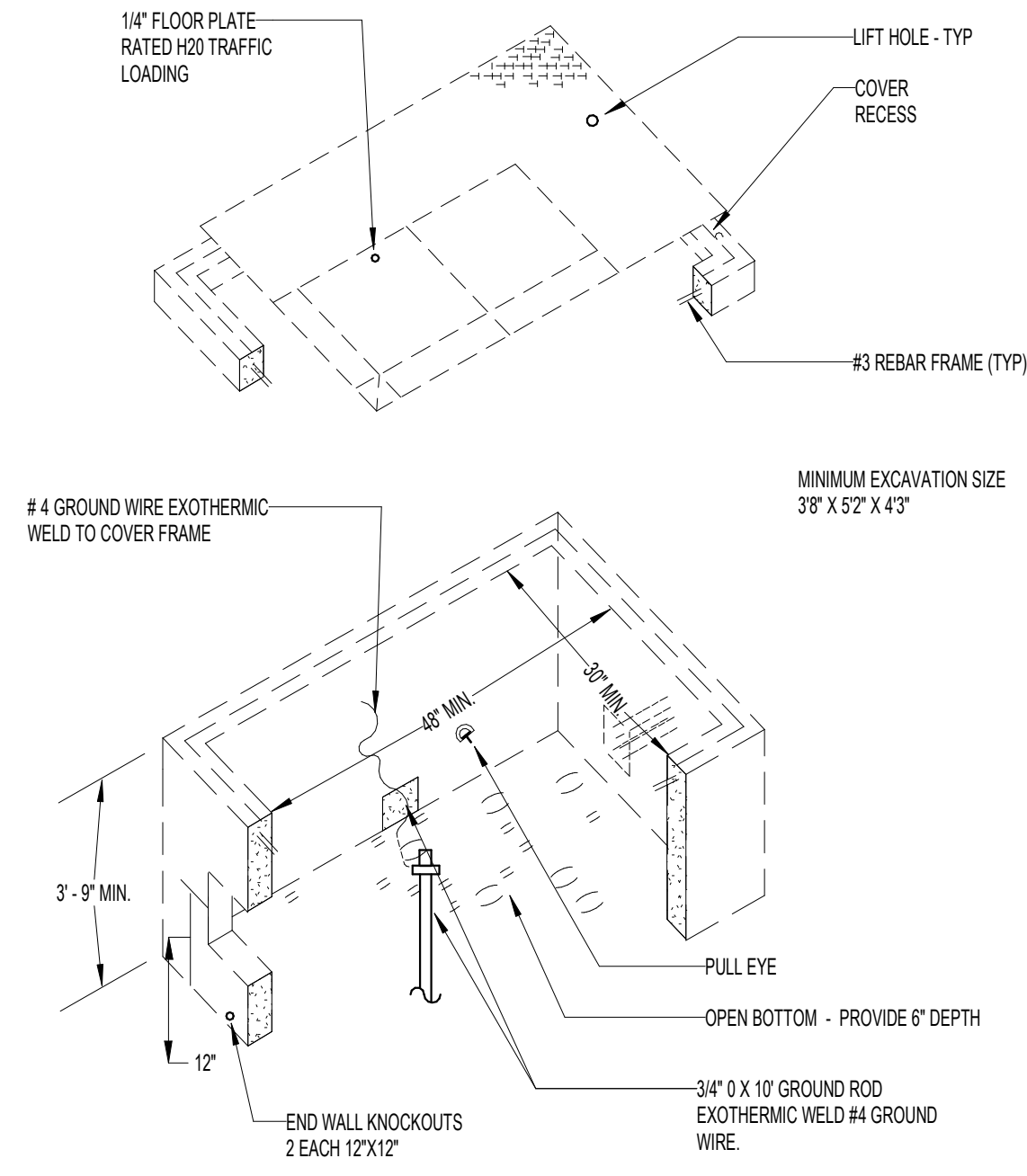
Vertical text on the left margin: C:\Revit\2022 Local\722049\_MEP2\_0224.tbl\BDR\Rev.dwg

Vertical text on the left margin: 7/23/2024 9:14:40 AM

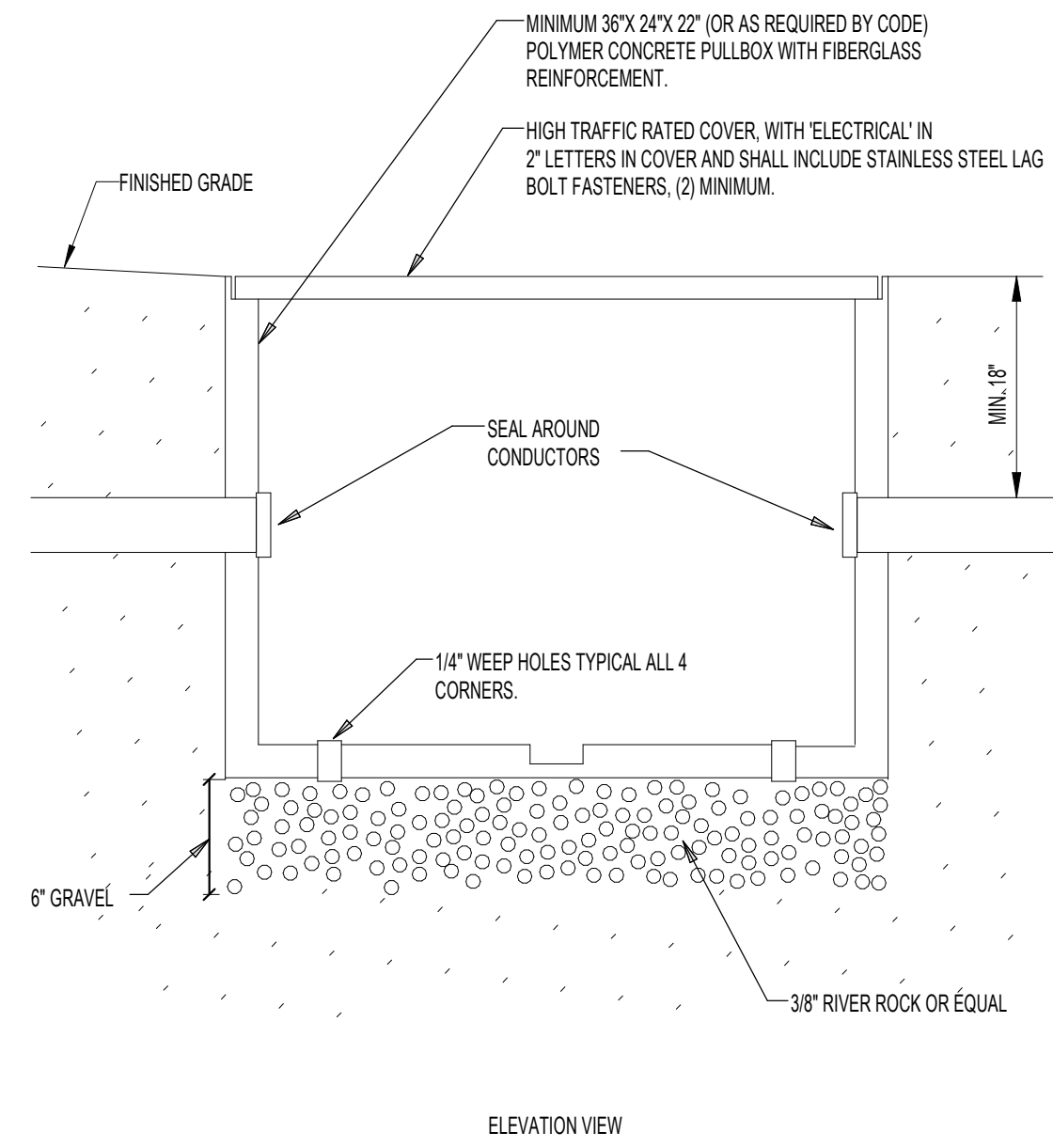








**1** LARGE EXTERIOR TRAFFIC  
RATED HANDHOLE  
N.T.S.



**2** TRAFFIC RATED ELECTRICAL  
HAND HOLE DETAIL  
N.T.S.

Consultants:

Revisions:		
No.	Date	Description

Seal

Project No.: 722049  
Issue Date: 07/24/2024  
Drawn By: Author  
Approved By: Approver  
Scale: 12" = 1'-0"

Drawing Title:  
**ELECTRICAL  
DETAILS**

Drawing No.:  
**E302**