



Goodwyn Mills Cawood
11 North Water Street
Suite 15250
Mobile, Alabama 36602
T 251.460.4006
F 251.460.4423

TRANSMITTAL COVER SHEET

DATE: December 12, 2023
PAGE: 1 of 62 (INCLUDING THIS PAGE)
TO: ALL CONTRACTORS
FROM: Craig Sanford
PROJECT: INTEGRITY PARK PHASE II
FOR THE CITY OF SPANISH FORT
GMC PROJECT NO. CMOB230047
RE: ADDENDUM #1

PLEASE COMPLETE BELOW AND RETURN IMMEDIATELY.

Ashley Morris
Email: Ashley.Morris@gmcnetwork.com

I, the undersigned, hereby acknowledge receipt of this Addendum.

Authorized Representative of Contractor

Date

Company Name

Telephone

Contractor's License Number (if applicable)



ADDENDUM NUMBER 1

INTEGRITY PARK PHASE II

FOR

THE CITY OF SPANISH FORT

GMC PROJECT NO. CMOB230047

1. Revisions to Project Manual

- 1.1 The following revisions are hereby added as Addendum No. 1 to the referenced Project Manual and Plans and shall be considered when preparing bids.

2. Revisions to Drawings

- 2.1 See the attached Revised Plan Set dated 12.7.2023, which replaces the set dated 12.6.2023.

3. Revisions to Project Manual

- 3.1 See attached Legal Bid Advertisement.

4. Contractor Questions

All questions and answers are included below in the following format:

- 4.1 **On Sheet C-101, it calls out for fencing on the retaining wall, what type of fence is going there and what would the height be? If it is chain link, would they want it to be core drilled or flange mounted?**
All chain link fencing shall match detail 6 as shown on sheet SF4.00. See Site Note 15 on Sheet C-001 of Revised Plan Set from December 7, 2023 regarding the retaining wall. The system utilized for the installation of the fence shall be approved by the retaining wall manufacturer.

- 4.2 **The asphalt Also, the typical says nothing about a prime coat but the specifications does. Which one is correct?**
An ALDOT Section 401 Bituminous Prime Coat is required over the aggregate base and an Asphalt Emulsion Tack Coat is required over the Binder Course.

5. Acknowledgement of Receipt

- 5.1 Receipt of Addendum shall be acknowledged in two ways:

- 5.1.1 Note on (EJCDC C-410) page 2 of Bid Form of the Project Manual – Bidder acknowledges receipt of “Addendum No. 1” and date of “December 12, 2023”.

AND

- 5.1.2 EMAIL GMC office immediately at ashley.morris@gmcnetwork.com with the signed transmittal which confirms the addendum has been received and is legible.

6. Conclusion

- 6.1 This is the end of Addendum Number 1, dated Tuesday, December 12, 2023.

ADVERTISEMENT FOR BIDS

CITY OF SPANISH FORT SPANISH FORT, ALABAMA INTEGRITY PARK PH. II

Sealed bids for the **Integrity Park Ph. II CMOB230047** will be received at Spanish Fort City Hall located at 7361 Spanish Fort Blvd., Spanish Fort, AL 36527, until **Thursday, December 21, 2023 at 10:00 A.M.** local time at which time the Bids received will be publicly opened and read.

The Project includes the following Work: **Construction of two soccer fields, two basketball courts, prefabricated metal building, asphalt parking, concrete sidewalks, field and site lighting, site grading and draining.**

Information for the Project can be found at the following designated website: www.gmcnetwork.com

The Issuing Office for the Bidding Documents is Goodwyn, Mills & Cawood, Inc., 11 N. Water St., Suite 15250, Mobile, AL 36602, Attn: Ashley Morris (251) 460-4006 or ashley.morris@gmcnetwork.com. Prospective Bidders may examine the Bidding Documents at the Issuing Office on Mondays through Fridays between the hours of 8:00 a.m. – 5:00 p.m., and may obtain copies of the Bidding Documents from the Issuing Office as described below.

Printed copies of the Bidding Documents may be obtained from the Issuing Office, during the hours indicated above, upon payment of a deposit of \$20.00 for a one-time administrative fee for digital access/file sharing and/or \$150.00 for each set. Said cost represents the cost of printing, reproduction, handling, and distribution, therefore no refund will be granted. Checks for Bidding Documents shall be payable to "GMC". Partial sets of Bidding Documents will not be available from the Issuing Office. Neither Owner nor Engineer will be responsible for full or partial sets of Bidding Documents, including Addenda if any, obtained from sources other than the Issuing Office.

A pre-bid conference for the Project will be held on **Thursday, December 14, 2023 at 10:00 a.m.** at Spanish Fort City Hall located at 7361 Spanish Fort Blvd., Spanish Fort. Attendance at the pre-bid conference is encouraged but not required.

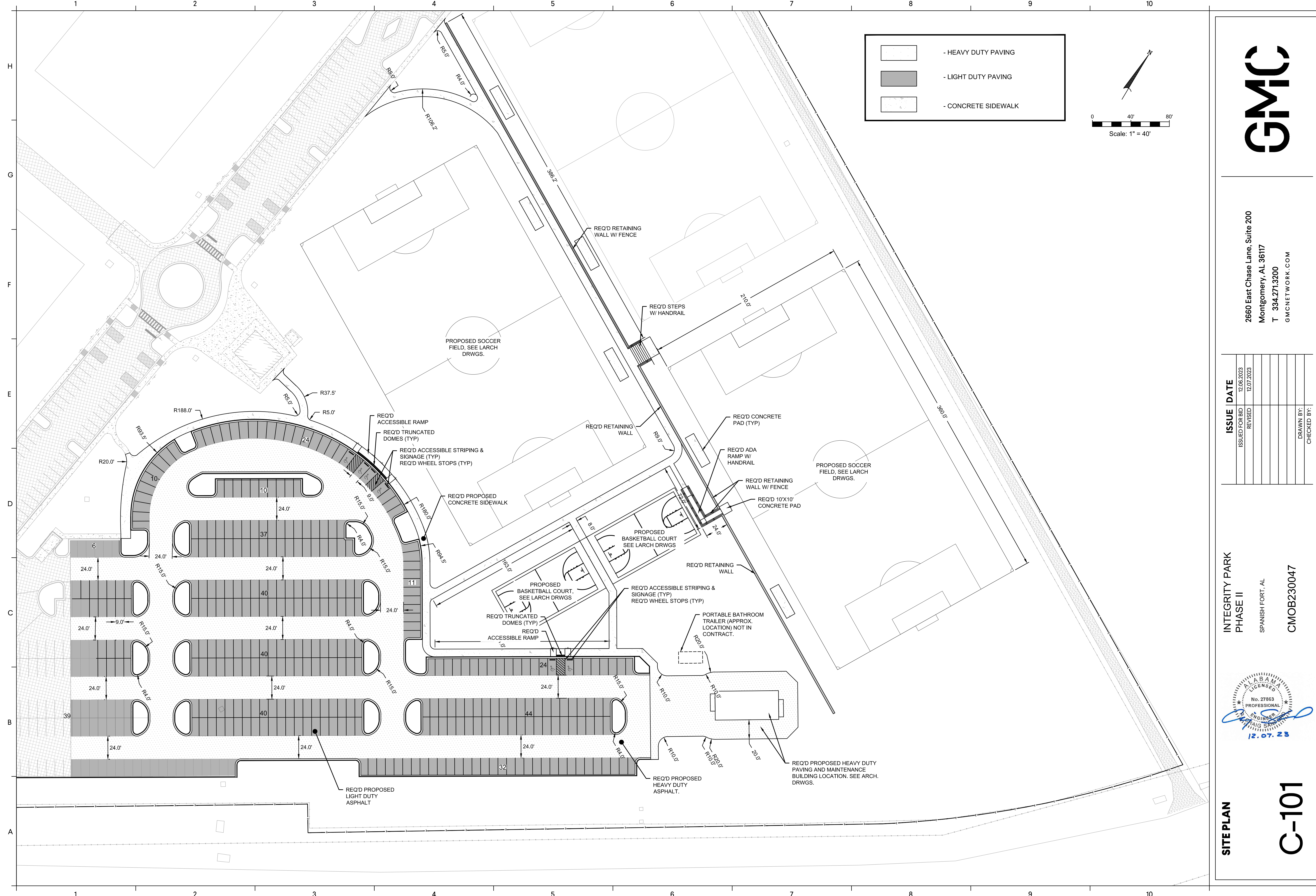
Bid security shall be furnished in accordance with the Instructions to Bidders.

The Owner reserves the right to waive any informalities or irregularities, or to reject any or all bids, and to award the contract to the best and most responsible bidder. All bidders shall submit, upon request, a list of projects "successfully completed" in the last 2 years, having the same or similar scope of work and approximate construction cost as specified in this project. All bidders must comply with requirements of the Contractor's Licensing Law of the State of Alabama and be certified for the type of work on which the proposal is submitted. Each bidder must deposit with his bid security in the amount, form and subject to the conditions provided in the Instructions to Bidders.

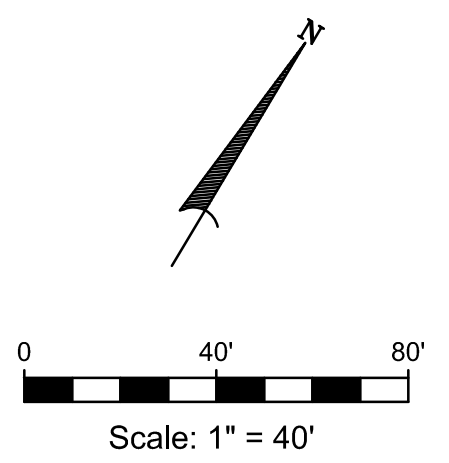
All Bidders bidding in amounts exceeding that established by the State Licensing Board for General Contractors must be licensed under the provisions of Title 34, Chapter 8, Code of Alabama, 1975, and must show evidence of license before bidding, or the bid will not be received or considered by the Engineer. The Bidder shall show such evidence by clearly displaying the license number on the outside of the envelope in which the Proposal is delivered.

No bidder may withdraw his bid within 60 days after the opening thereof.

Owner: City of Spanish Fort
By: Michael M. McMillan
Title: Mayor
Date: **Wednesday, November 22, 2023**



- HEAVY DUTY PAVING
- LIGHT DUTY PAVING
- CONCRETE SIDEWALK



GMC

2660 East Chase Lane, Suite 200
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ISSUE DATE

ISSUED FOR BID	REVISIONS
12.06.2023	
12.07.2023	

**INTEGRITY PARK
 PHASE II**

SPANISH FORT, AL

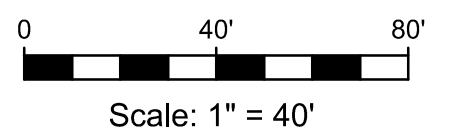
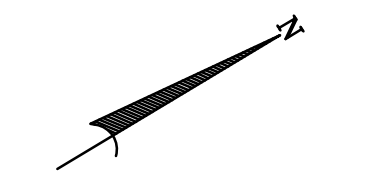
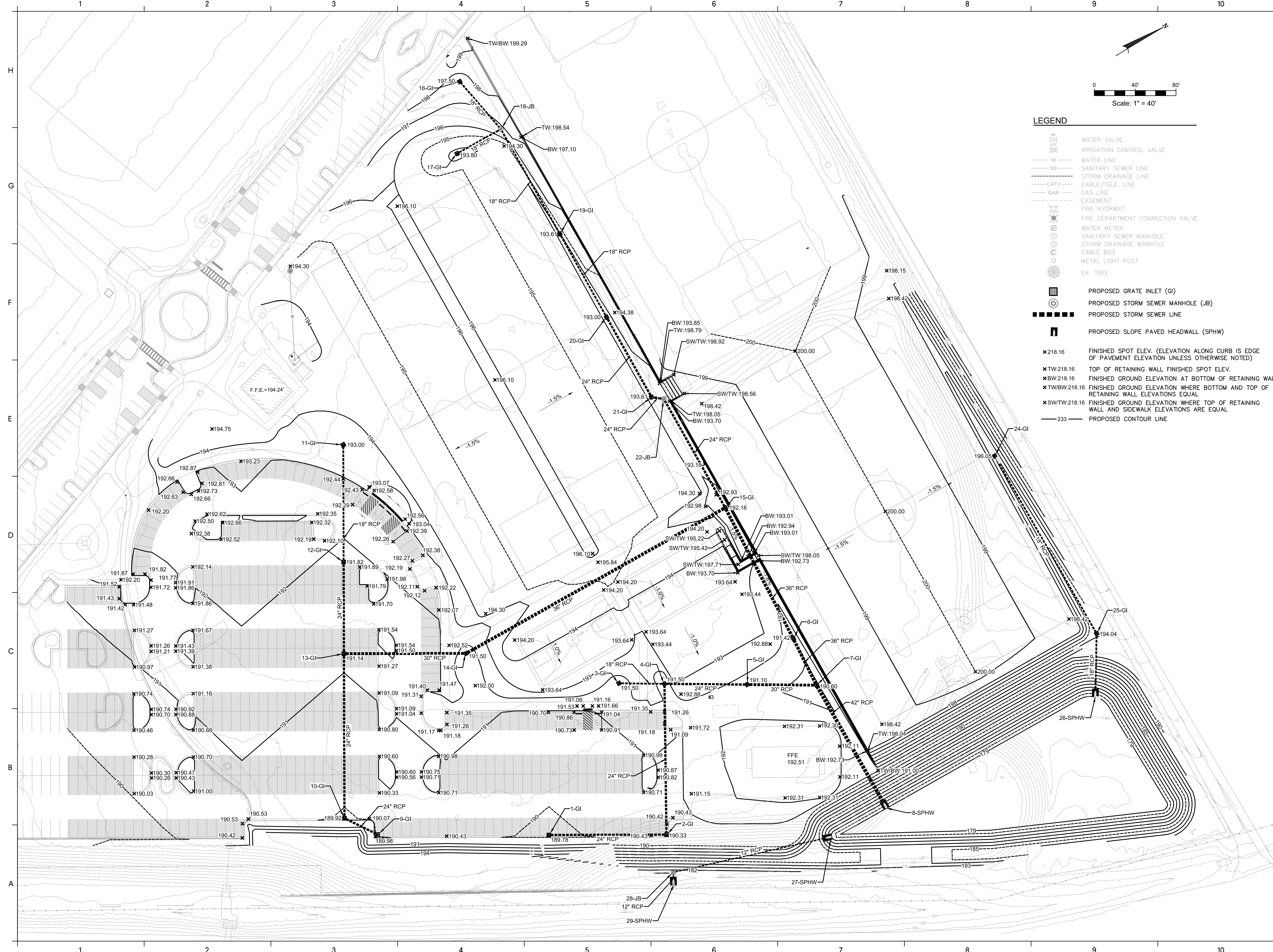
CMOB230047



SITE PLAN
C-101

DRAWING FILE: T:\Projects\AL\Spanish Fort, AL\CMOB230047 - Integrity Park Ph. II\DWG\C-101 SITE PLAN.dwg
 PLOT FILE: C:\Users\jg\OneDrive\Documents\12.07.2023

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LEGEND

- WATER VALVE
- IRRIGATION CONTROL VALVE
- WATER LINE
- SANITARY SEWER LINE
- STORM DRAINAGE LINE
- CABLE/TELE. LINE
- GAS LINE
- EASEMENT
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION VALVE
- WATER METER
- SANITARY SEWER MANHOLE
- STORM DRAINAGE MANHOLE
- CABLE BOX
- METAL LIGHT POST
- EX. TREE
- PROPOSED GRATE INLET (GI)
- PROPOSED STORM SEWER MANHOLE (JB)
- PROPOSED STORM SEWER LINE
- PROPOSED SLOPE PAVED HEADWALL (SPHW)
- x**218.16 FINISHED SPOT ELEV. (ELEVATION ALONG CURB IS EDGE OF PAVEMENT ELEVATION UNLESS OTHERWISE NOTED)
- x**TW:218.16 TOP OF RETAINING WALL FINISHED SPOT ELEV.
- x**BW:218.16 FINISHED GROUND ELEVATION AT BOTTOM OF RETAINING WALL
- x**TW/BW:218.16 FINISHED GROUND ELEVATION WHERE BOTTOM AND TOP OF RETAINING WALL ELEVATIONS EQUAL
- x**SW/TW:218.16 FINISHED GROUND ELEVATION WHERE TOP OF RETAINING WALL AND SIDEWALK ELEVATIONS ARE EQUAL
- 233 PROPOSED CONTOUR LINE



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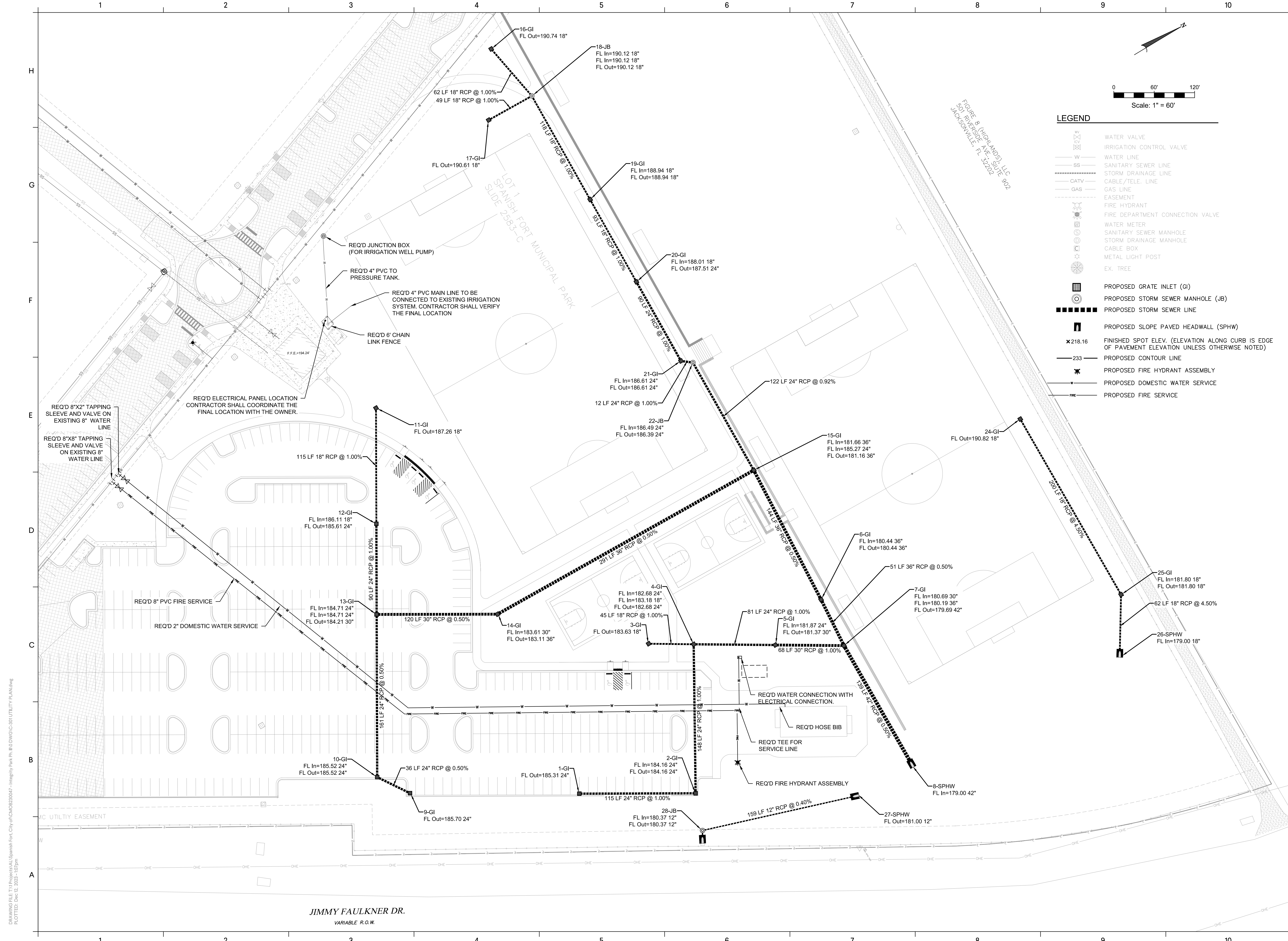
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ISSUED FOR BID	12.06.2023
REVISED	12.07.2023
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INTEGRITY PARK
 PHASE II
 SPANISH FORT, AL
 CMOB230047



GRADING PLAN
C-201

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 PLOTTED: Dec 12, 2023 - 10:08am



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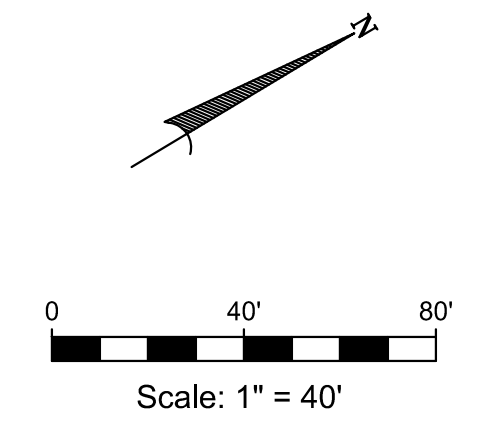
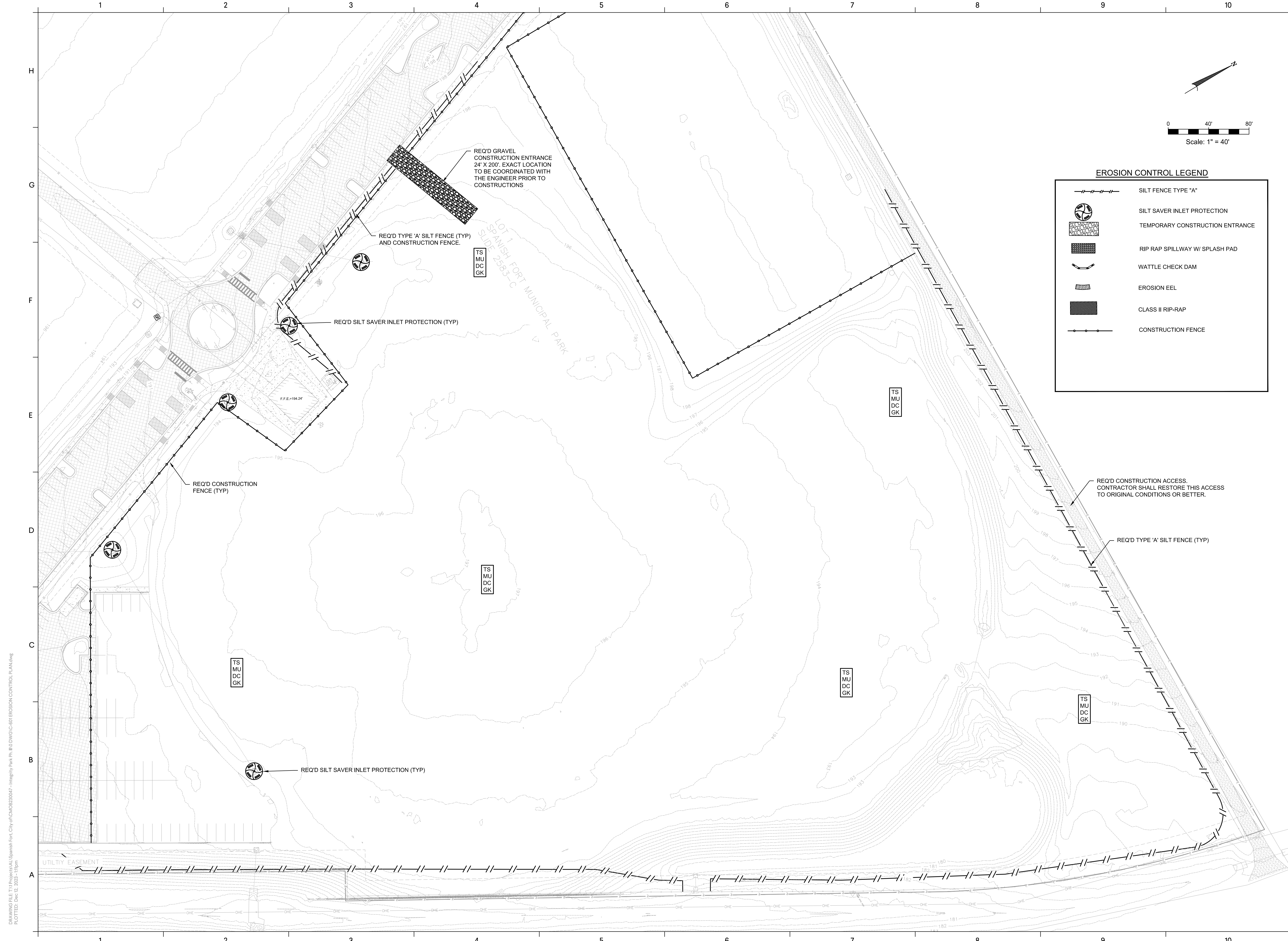
INTEGRITY PARK
 PHASE II
 SPANISH FORT, AL
 CMOB230047



UTILITY PLAN
C-301

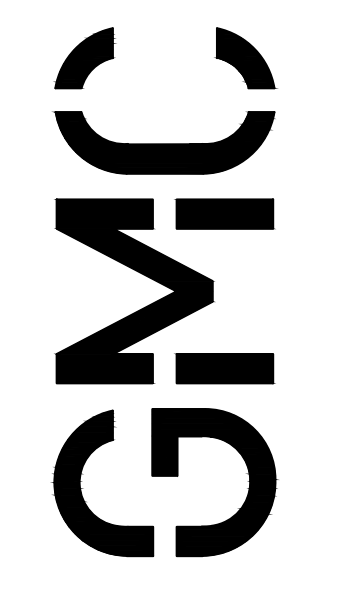
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EROSION CONTROL LEGEND

	SILT FENCE TYPE "A"
	SILT SAVER INLET PROTECTION
	TEMPORARY CONSTRUCTION ENTRANCE
	RIP RAP SPILLWAY W/ SPLASH PAD
	WATTLE CHECK DAM
	EROSION EEL
	CLASS II RIP-RAP
	CONSTRUCTION FENCE



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ISSUE DATE	ISSUED FOR BID	REVISION
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12.07.2023		

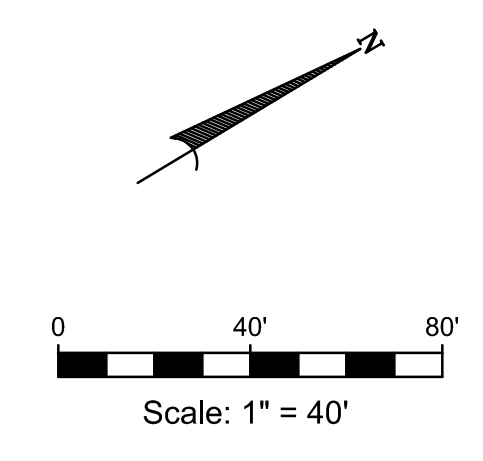
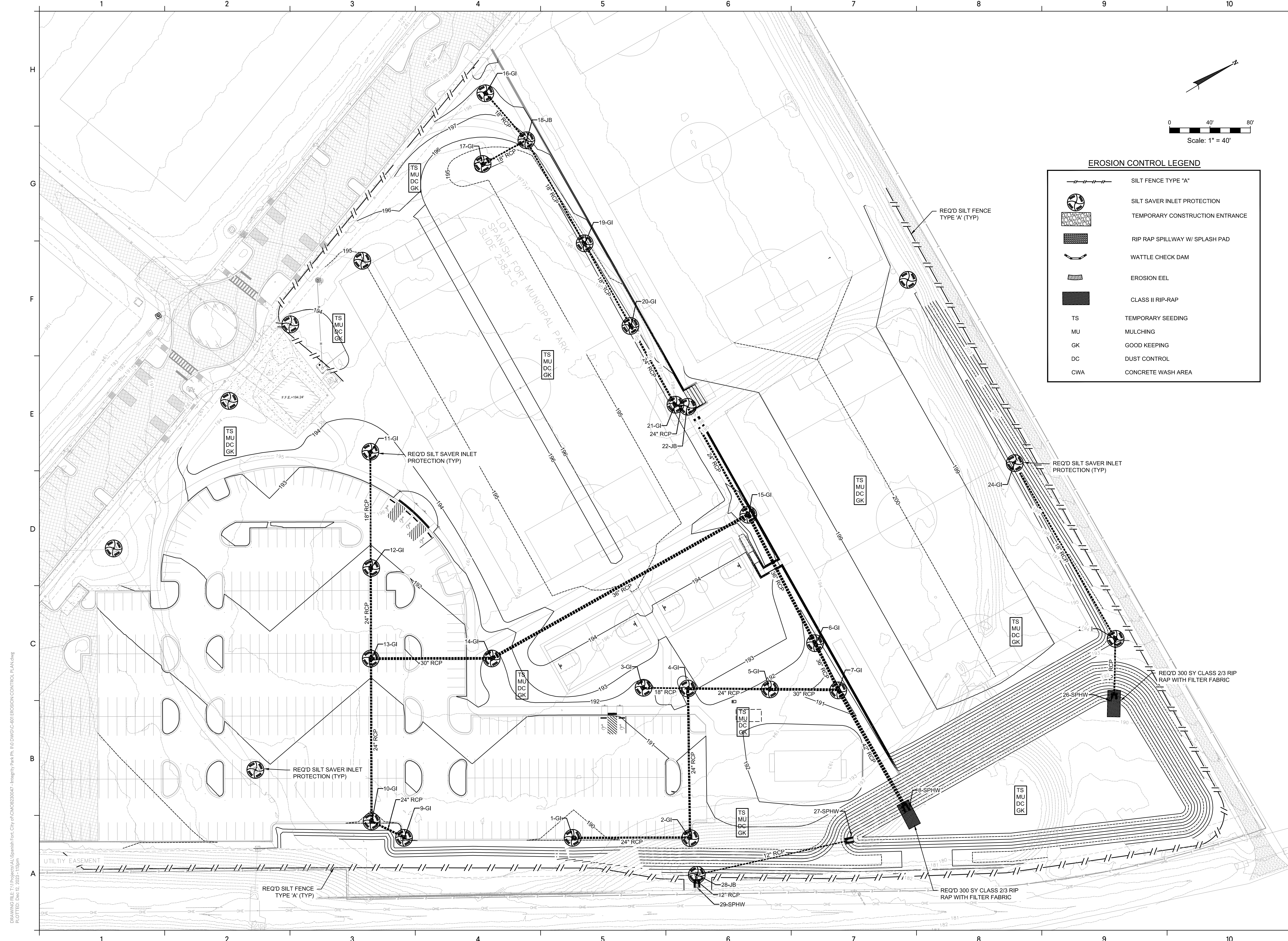
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INTEGRITY PARK
 PHASE II
 SPANISH FORT, AL
 CMOB230047



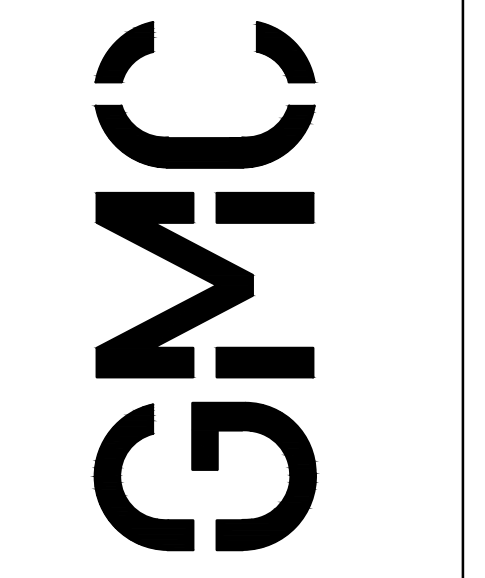
PHASE I EROSION CONTROL PLAN
C-601

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EROSION CONTROL LEGEND

- SILT FENCE TYPE "A"
- SILT SAVER INLET PROTECTION
- TEMPORARY CONSTRUCTION ENTRANCE
- RIP RAP SPILLWAY W/ SPLASH PAD
- WATTLE CHECK DAM
- EROSION EEL
- CLASS II RIP-RAP
- TS** TEMPORARY SEEDING
- MU** MULCHING
- GK** GOOD KEEPING
- DC** DUST CONTROL
- CWA** CONCRETE WASH AREA



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INTEGRITY PARK
 PHASE II
 SPANISH FORT, AL
 CMOB230047



PHASE II EROSION
 CONTROL PLAN
 C-602

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Post Development Drainage Calculation - 25 Years Storm Event										
Area No.	Inlet	Area (sf)	Area (ac)	Cw	L	h	s	Tc	i	Q (cfs)
1	2-GI	10,776	0.25	0.95	157	2.14	1.36	5.00	12.96	3.05
1A	1-GI	31,522	0.72	0.95	266	5.59	2.10	5.00	12.96	8.91
2	3-GI	6,261	0.14	0.74	112	3.91	3.49	5.00	12.96	1.37
3	4-GI	1,344	0.03	0.35	37	0.55	1.49	7.20	11.43	0.12
4	5-GI	16,324	0.37	0.71	148	2.46	1.66	7.22	11.41	3.04
5	6-GI	21,802	0.50	0.35	135	1.82	1.35	14.21	8.00	1.40
6	7-GI	22,019	0.51	0.35	135	1.82	1.35	14.21	8.00	1.41
7	9-GI	34,621	0.79	0.95	152	1.15	0.76	5.00	12.96	9.79
8	11-GI	33,115	0.76	0.35	217	2.81	1.29	18.26	7.29	1.94
9	12-GI	31,686	0.73	0.66	90	1.33	1.48	6.67	11.80	5.63
10	13-GI	26,513	0.61	0.73	91	0.70	0.77	6.94	11.61	5.16
11	14-GI	8,812	0.20	0.49	148	4.43	2.99	9.30	9.97	0.99
12	15-GI	28,614	0.66	0.35	120	1.82	1.52	12.89	8.46	1.95
13	16-GI	3,103	0.07	0.35	57	0.74	1.30	9.35	9.93	0.25
14	17-GI	6,390	0.15	0.35	71	2.20	3.10	7.83	10.99	0.56
15	19-GI	43,356	1.00	0.35	120	2.41	2.01	11.75	8.86	3.09
16	20-GI	43,337	0.99	0.35	120	2.41	2.01	11.75	8.86	3.09
17	21-GI	14,336	0.33	0.35	120	2.41	2.01	11.75	8.86	1.02
18	24-GI	35,390	0.81	0.35	120	2.41	2.01	11.75	8.86	2.52
19	25-GI	28,554	0.66	0.35	120	2.41	2.01	11.75	8.86	2.03

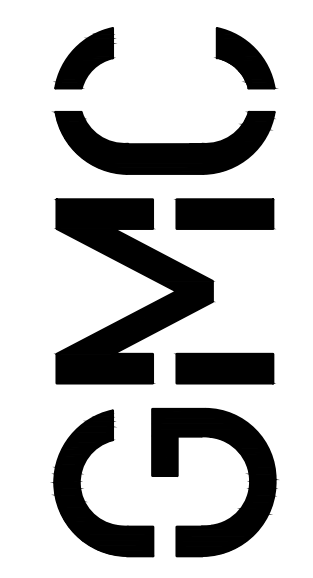
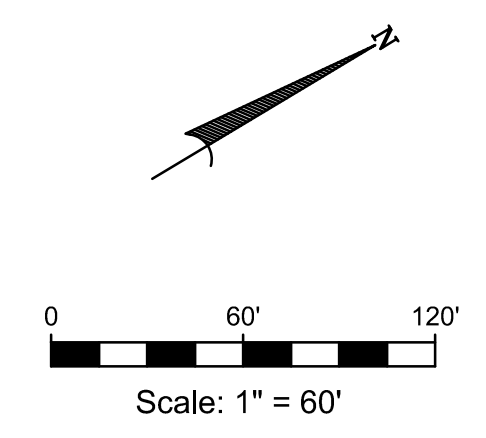
Pipe Sizes - 25 Years Storm Event						
STR	TO	STR	Added Q	Total Q	Pipe	Min. Slope, %
1-GI	-	2-GI	8.91	8.91	24	0.16
2-GI	-	4-GI	3.05	11.96	24	0.28
3-GI	-	4-GI	1.37	1.37	18	0.02
4-GI	-	5-GI	0.12	13.45	24	0.35
5-GI	-	7-GI	3.04	16.49	30	0.16
9-GI	-	10-GI	9.79	9.79	24	0.19
10-GI	-	13-GI	-	9.79	24	0.19
11-GI	-	12-GI	1.94	1.94	18	0.03
12-GI	-	13-GI	5.63	7.57	24	0.11
13-GI	-	14-GI	5.16	22.51	30	0.30
14-GI	-	15-GI	0.99	23.50	36	0.12
16-GI	-	18-JB	0.25	0.25	18	0.00
17-GI	-	18-JB	0.56	0.56	18	0.00
18-JB	-	19-GI	-	0.81	18	0.01
19-GI	-	20-GI	3.09	3.90	18	0.14
20-GI	-	21-GI	3.09	6.99	24	0.10
21-GI	-	22-JB	1.02	8.01	24	0.13
22-JB	-	15-GI	-	8.01	24	0.13
15-GI	-	6-GI	1.95	33.45	36	0.25
6-GI	-	7-GI	1.40	34.85	36	0.27
7-GI	-	8-SPHW	1.41	52.75	42	0.28
24-GI	-	25-GI	2.52	2.52	18	0.06
25-GI	-	26-SPHW	2.03	4.55	18	0.19

EXISTING DETENTION POND A
 BOTTOM ELEVATION: 178.00'
 TOP ELEVATION: 186.00'
 PEAK 100YR/24HR STORM
 EVENT ELEVATION: 184.87'

MODIFIED DETENTION POND B
 BOTTOM ELEVATION: 179.00'
 TOP ELEVATION: 185.00'
 PEAK 100YR/24HR STORM
 EVENT ELEVATION: 183.72'

PRE & POST DEVELOPMENT DETENTION POND OUTLET (A)		
STORM EVENT (YEAR)	PRE DEVELOPMENT (CFS)	POST DEVELOPMENT (CFS)
2YR/25HR	0.16	0.00
5YR/25HR	0.81	0.00
10YR/25HR	2.67	1.79
25YR/25HR	4.68	3.41
50YR/25HR	10.80	8.01
100YR/25HR	15.26	11.21

PRE & POST DEVELOPMENT DETENTION POND OUTLET (B)		
STORM EVENT (YEAR)	PRE DEVELOPMENT (CFS)	POST DEVELOPMENT (CFS)
2YR/24HR	0.05	0.00
5YR/24HR	0.27	0.00
10YR/24HR	1.01	0.80
25YR/24HR	1.82	1.63
50YR/24HR	4.09	3.38
100YR/24HR	5.51	4.18



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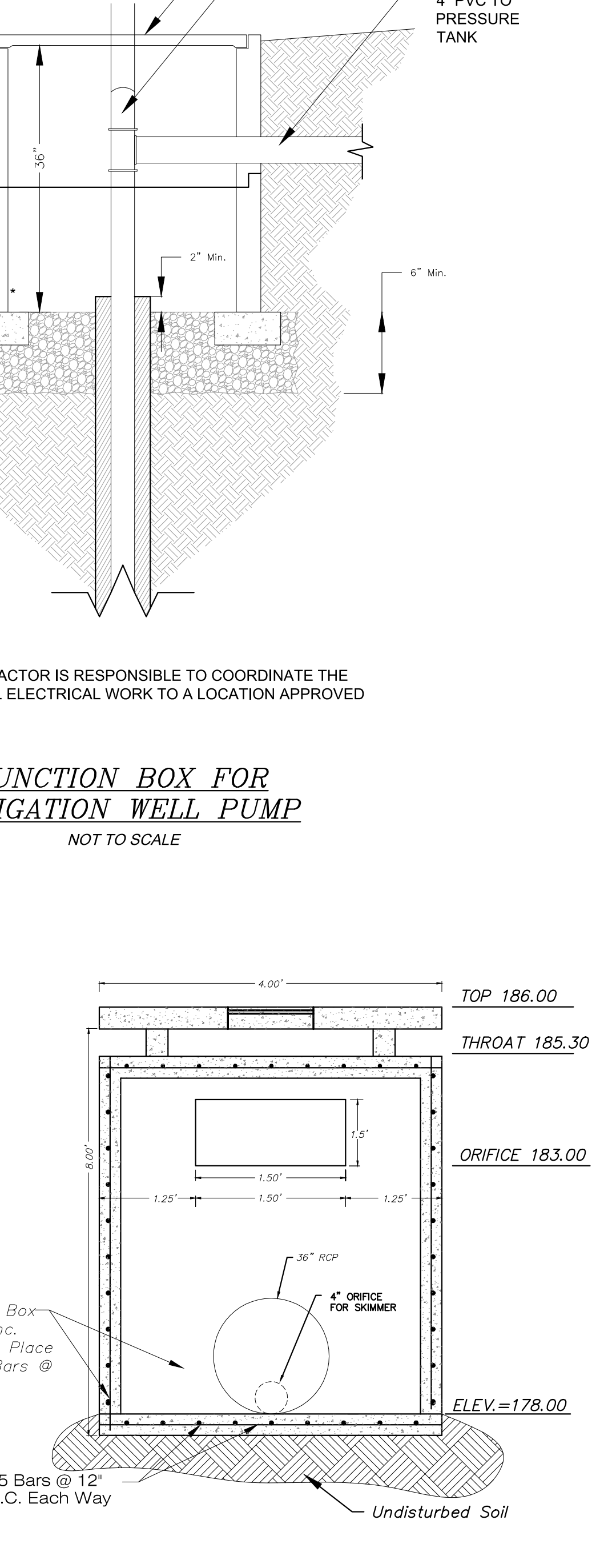
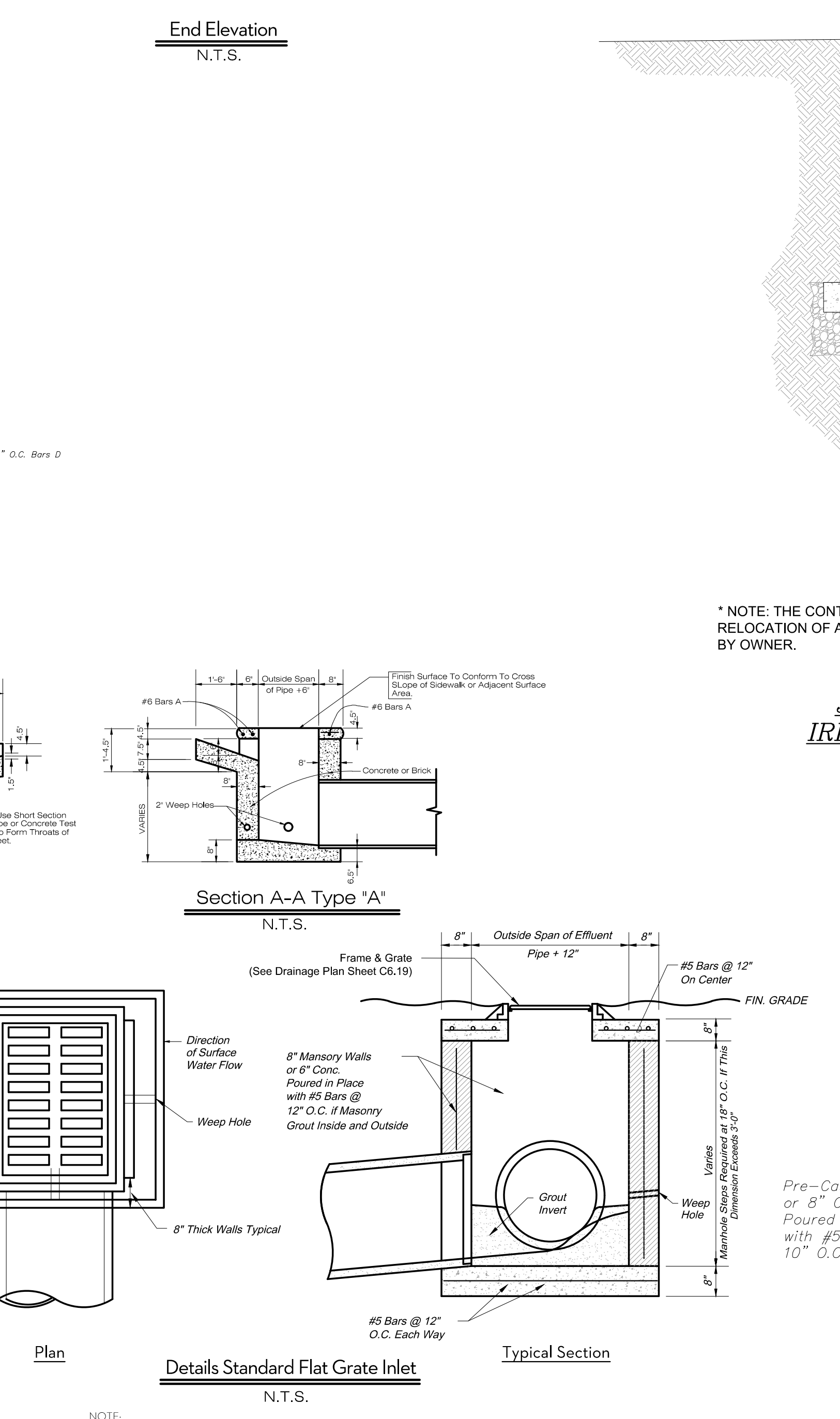
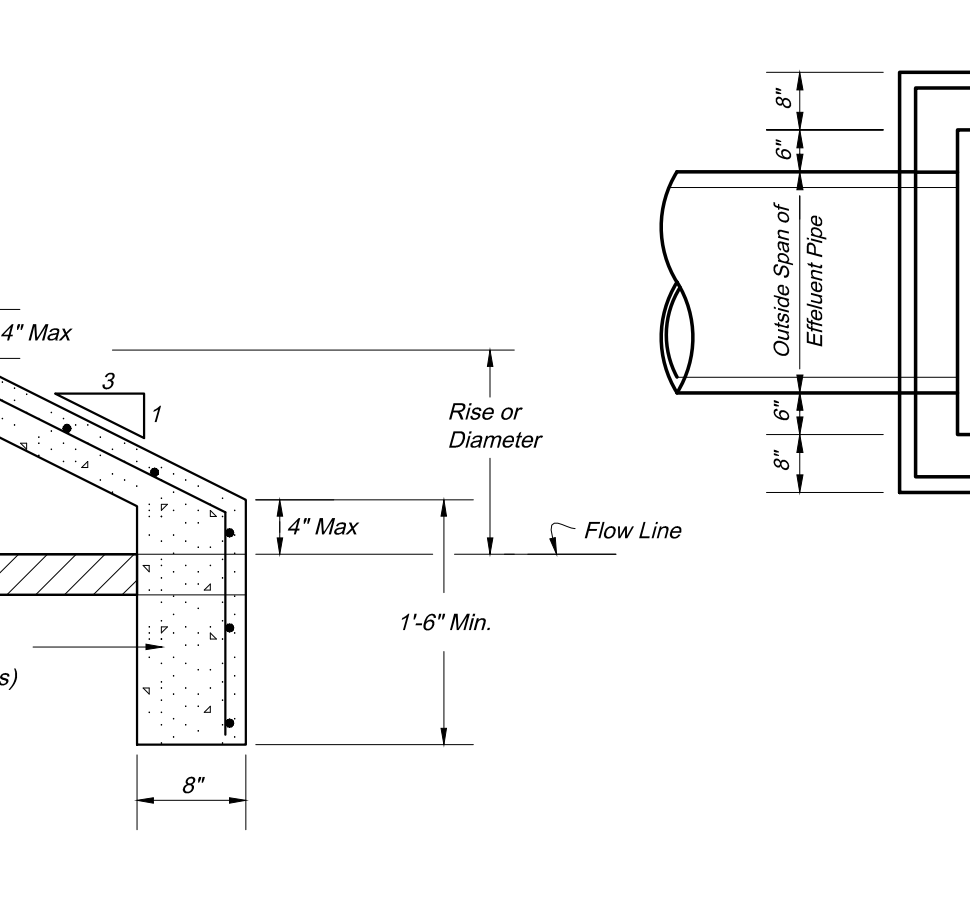
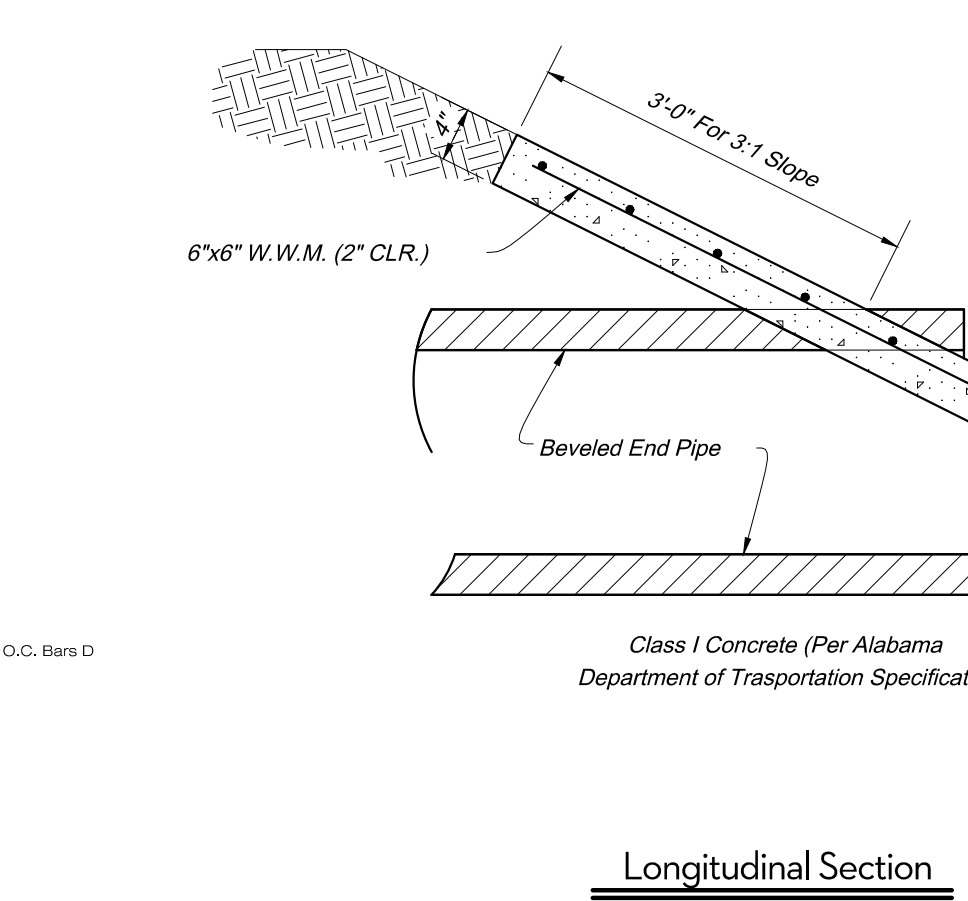
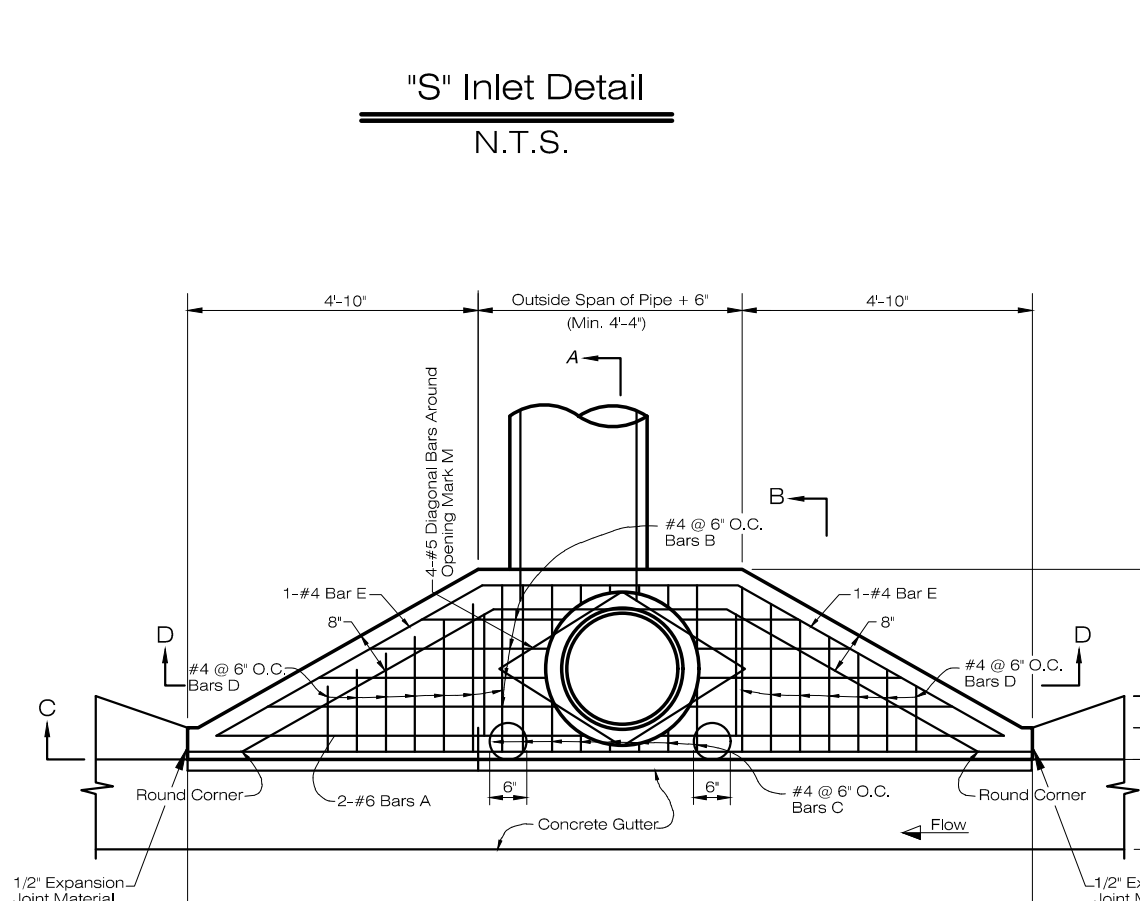
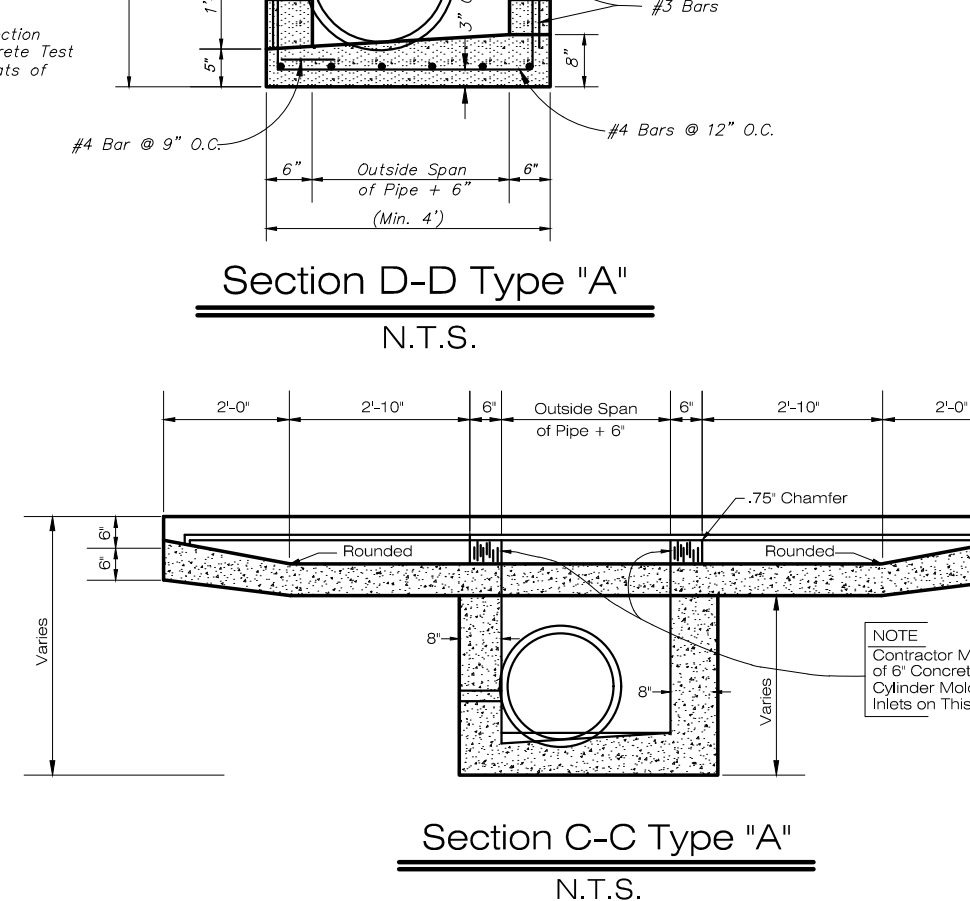
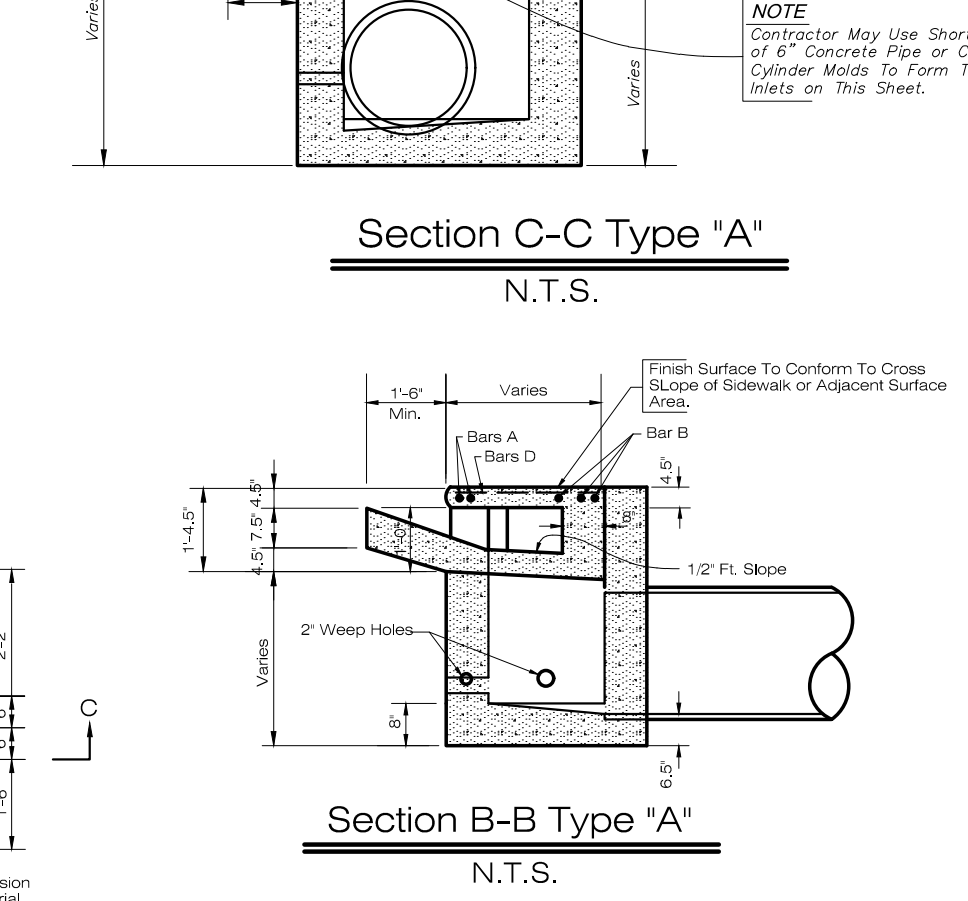
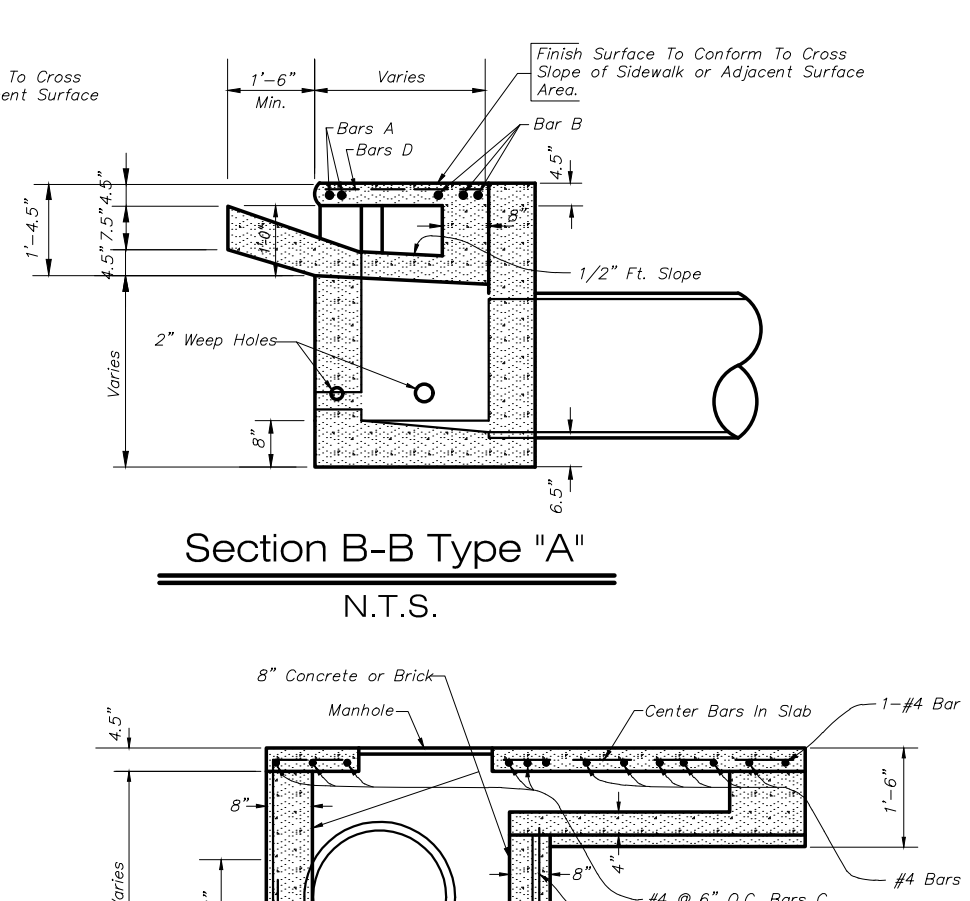
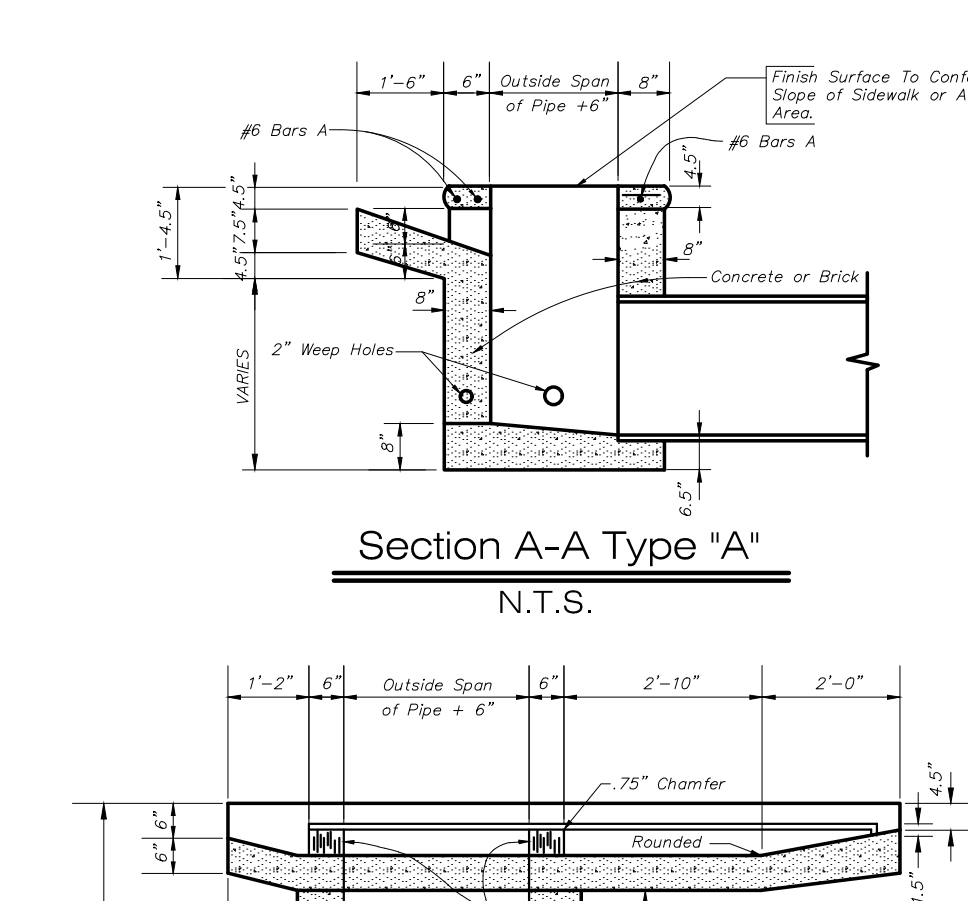
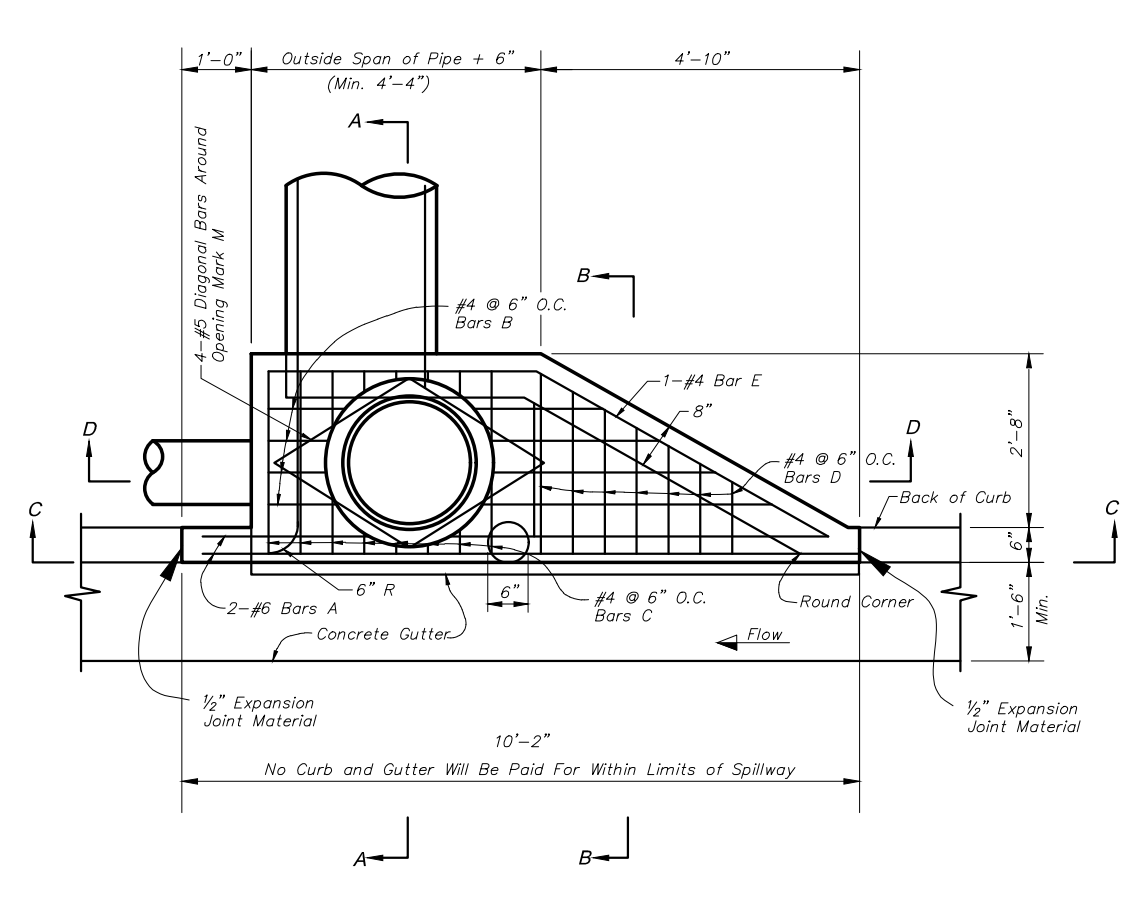
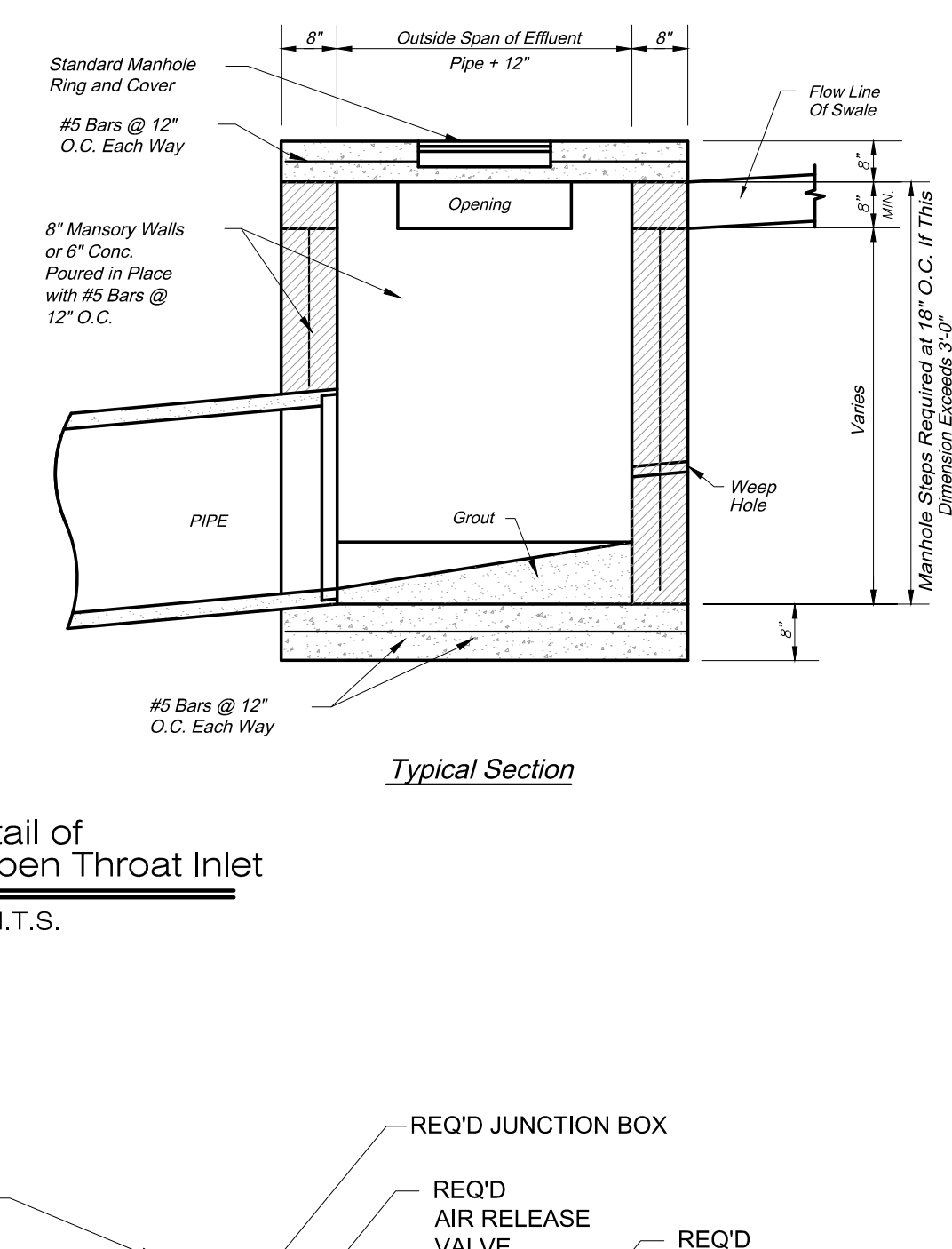
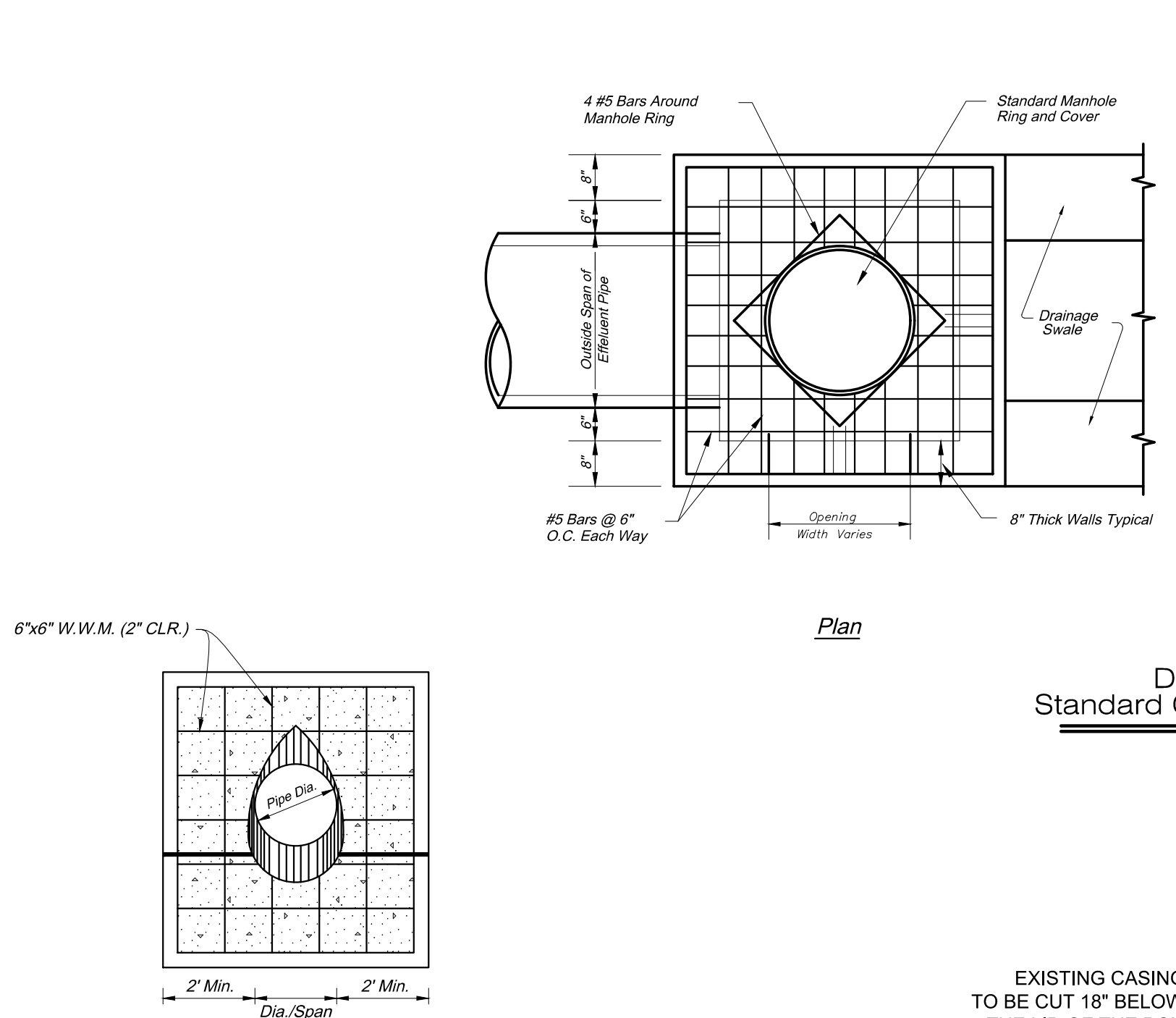
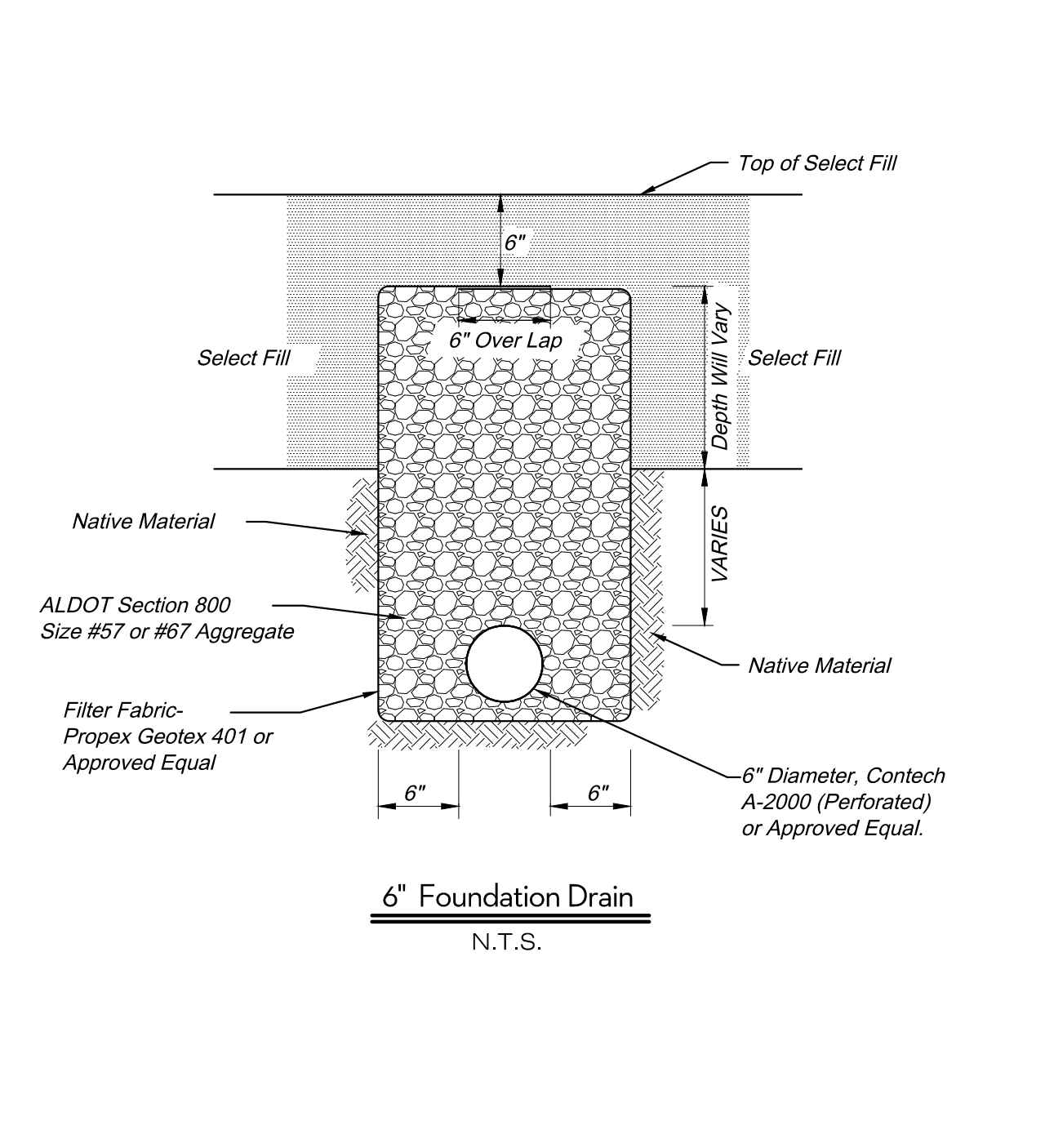
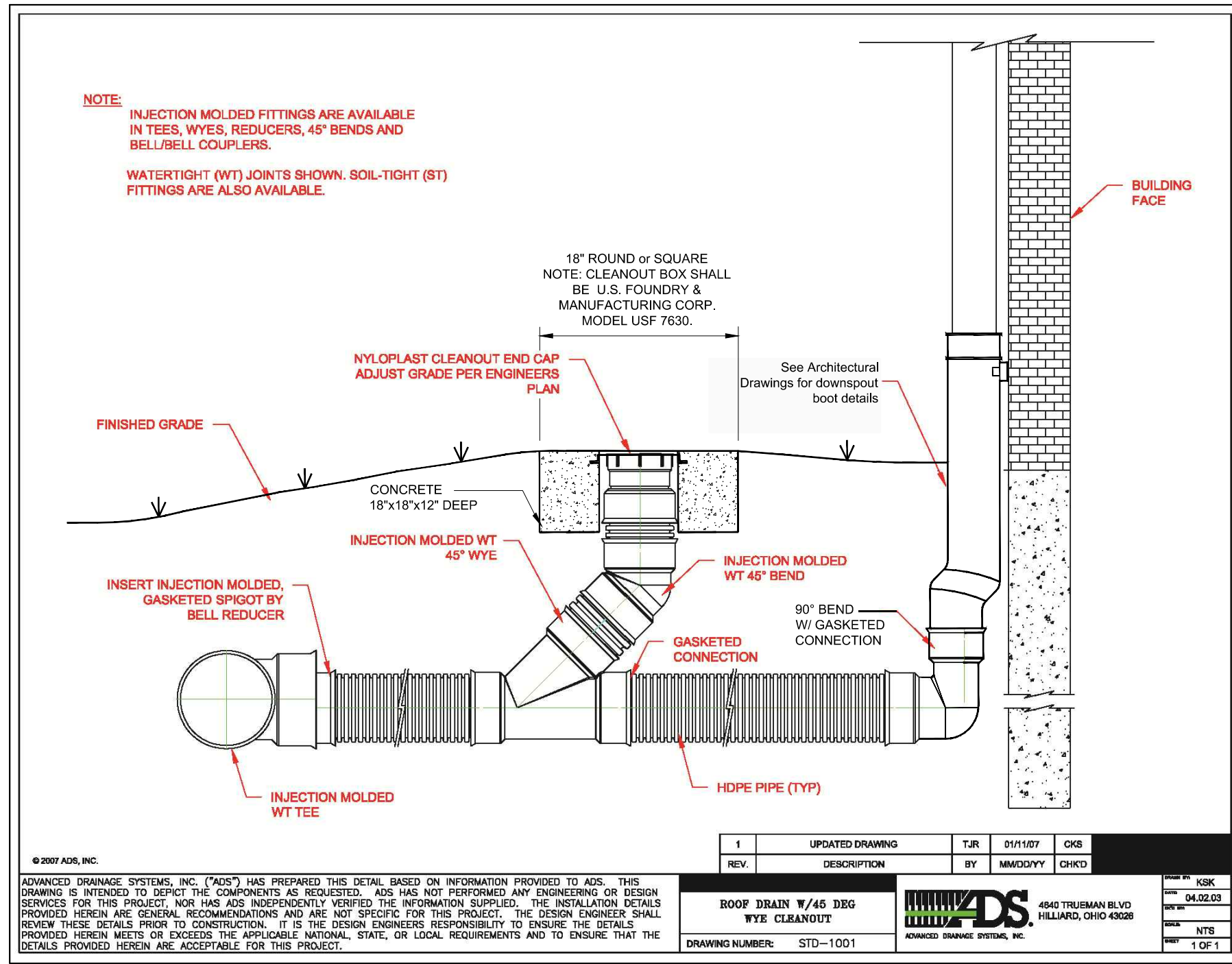
ISSUE	DATE
ISSUED FOR BID	12.06.2023
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INTEGRITY PARK
 PHASE II
 SPANISH FORT, AL
 CMOB230047



DRAINAGE PLAN
C-701

DRAWING FILE: F:\Projects\AL\Spanish Fort\City of Montgomery\CMOB230047 - Integrity Park Ph. II\DWG\C-701 DRAINAGE PLAN.dwg
 PLOTTED: DATE: 12/20/23 10:08am



NOTE:
1. INLET FRAMES AND GRATES LOCATED IN THE ASPHALT AND CONCRETE AREAS SHALL BE EAST JORDAN IRON WORKS INC. OR APPROVED EQUAL.
2. IF AN ALTERNATE IS CHOSEN, SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

GMC

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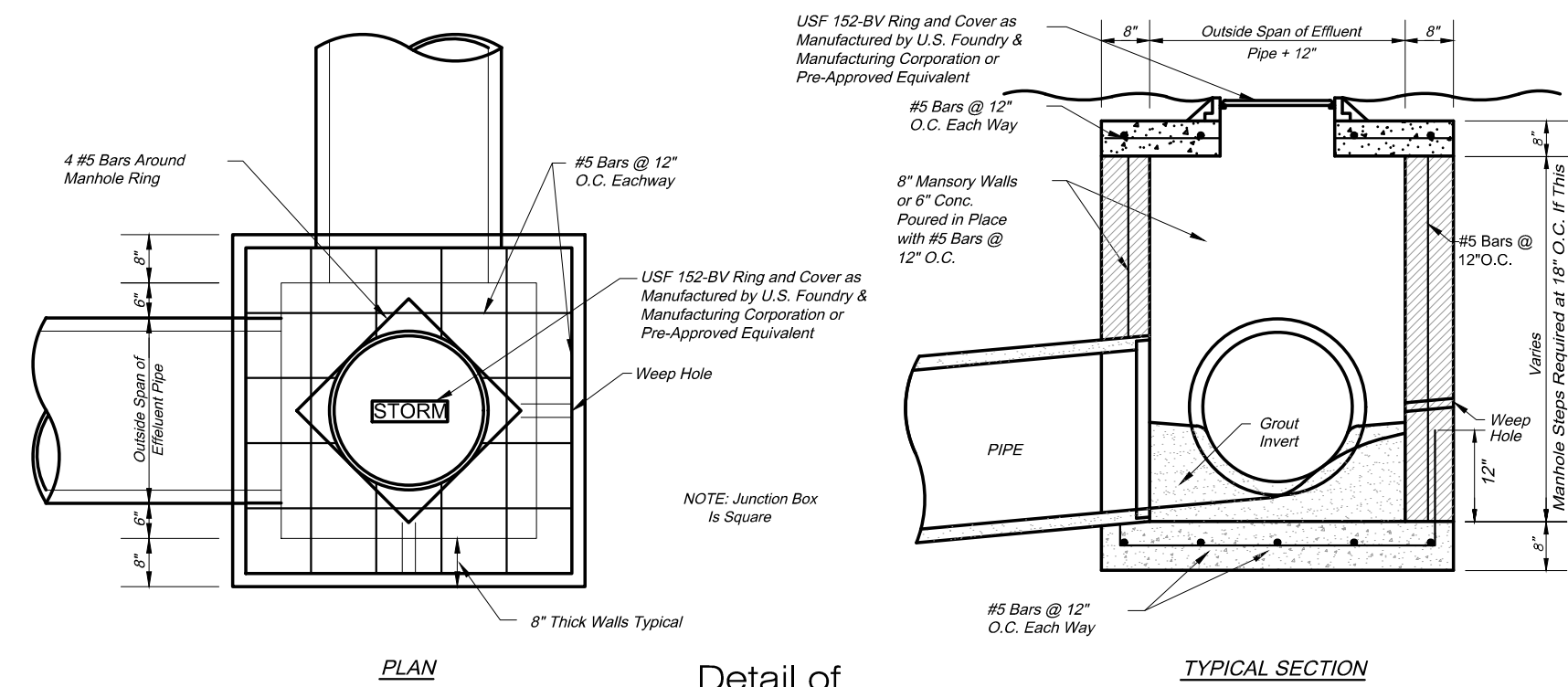
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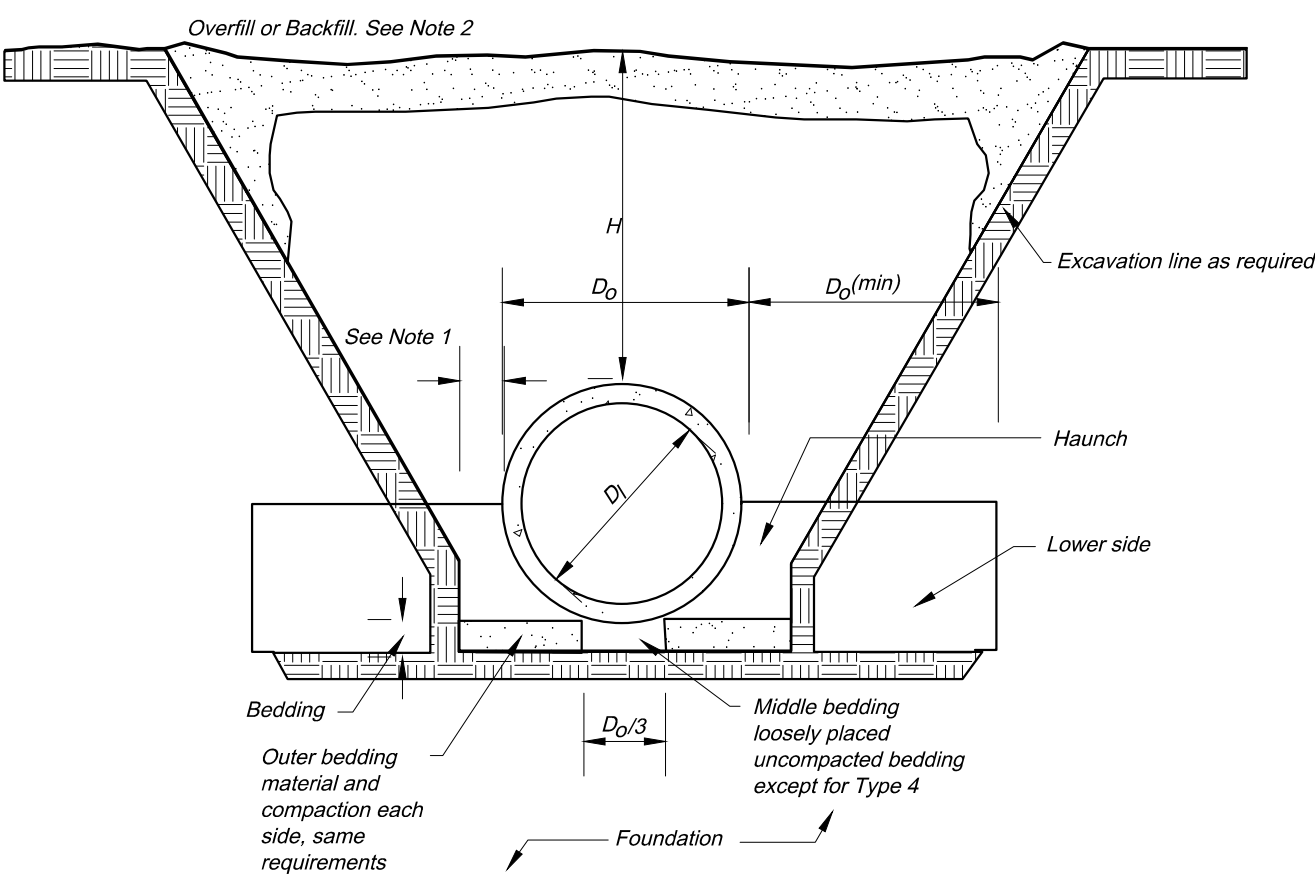
INTEGRITY PARK
PHASE II
SPANISH FORT, AL
CMOB230047

C-901

Professional Engineer Seal: No. 27853, PROFESSIONAL ENGINEER, 12.07.23



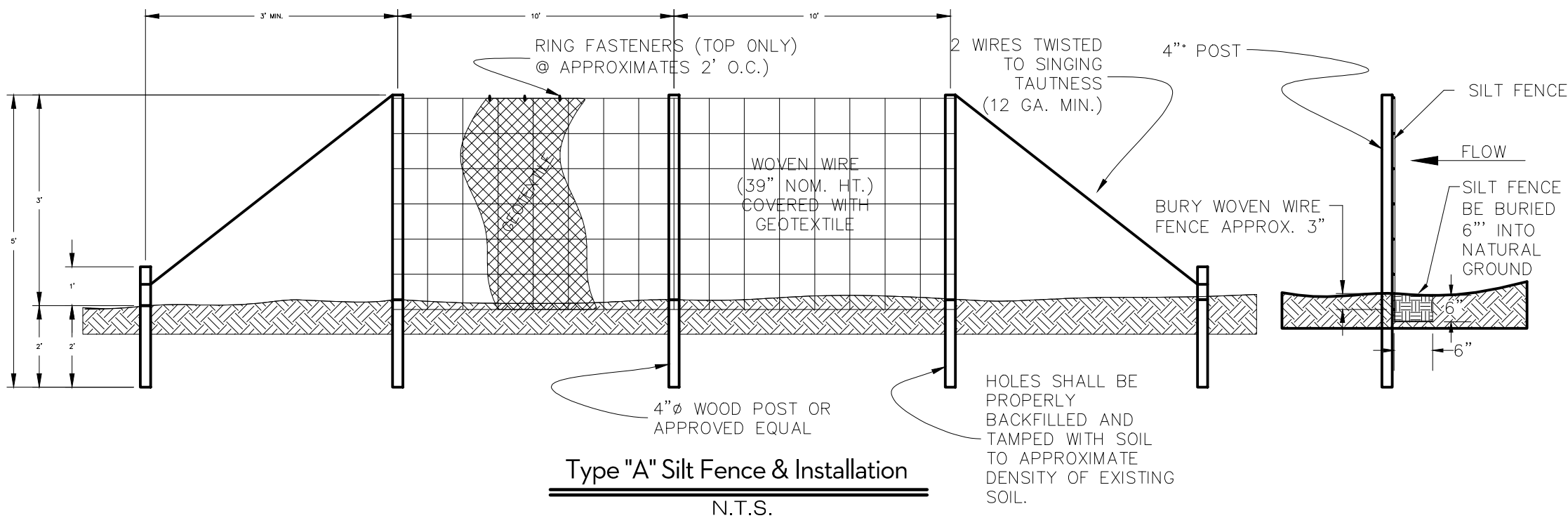
Detail of Standard Junction Box 12"-36" Pipe
N.T.S.



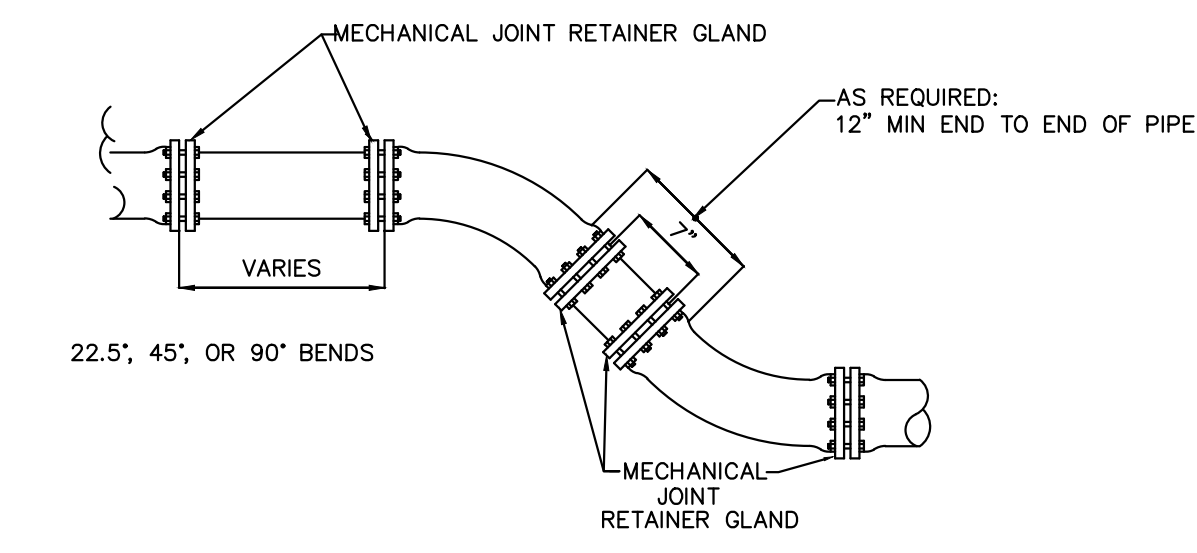
1. Clearance between pipe and trench wall shall be adequate to enable specified compaction but not less than Do/6.
2. Overfill or Backfill material shall meet the requirements of AASHTO A-1, A-3, A-2-4, A-2-5 or A-4.
3. Compaction shall be according with table No.1. Proctor Standard density shall follow the AASHTO T-99, T310
4. When the trench width specified must be exceeded, the Owner and Engineer or Record shall be notified.
5. The trench width shall be wider than shown if required for adequate space to attain the specified compaction in the haunch and bedding zones.
6. Embankment loading shall be used when trench walls consist of embankment unless a Geotechnical Analysis is made and the soil in the trench walls is compacted to a higher level than the soil in the backfill zone.
7. Required bedding thickness is the thickness of the bedding prior to placement of the pipe.

Installation Type	Bedding Thickness	Haunch and Outer Bedding	Lower Side
Type 1	Do/24 minimum; not less than 3 in. If rock foundation, use Do/12 minimum; not less than 6 in.	95% Proctor Standard for soil A1 & A3	Undisturbed natural soil with firmness equivalent to the following placed soils: 90% Proctor Standard for soil A1 & A3, or 95% Proctor Standard for soil A2-4 & A2-5, or embankment to the same requirements
Type 2	Do/24 minimum; not less than 3 in. If rock foundation, use Do/12 minimum; not less than 6 in.	90% Proctor Standard for soils A1 & A3, or 95% for soils A2-4, A2-5 & A-4	Undisturbed natural soil with firmness equivalent to the following placed soils: 85% Proctor Standard for soil A1 & A3, or 90% Proctor Standard for soil A2-4, A2-5 & A-4, or embankment to the same requirements

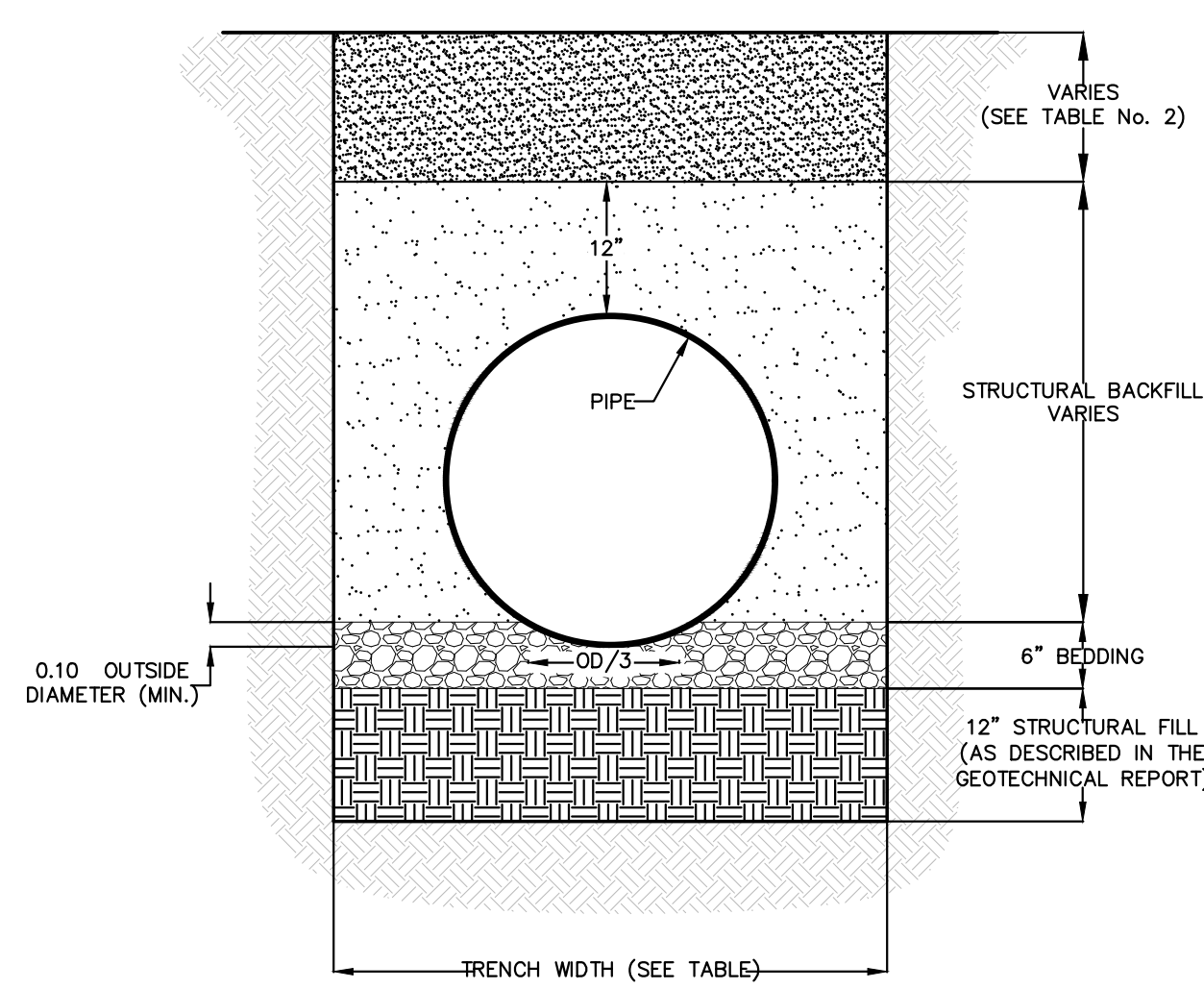
Typical Trench Detail for Reinforced Concrete Pipe
N.T.S.



Type "A" Silt Fence & Installation
N.T.S.



TYPICAL PIPE LINE DEFLECTION
N.T.S.

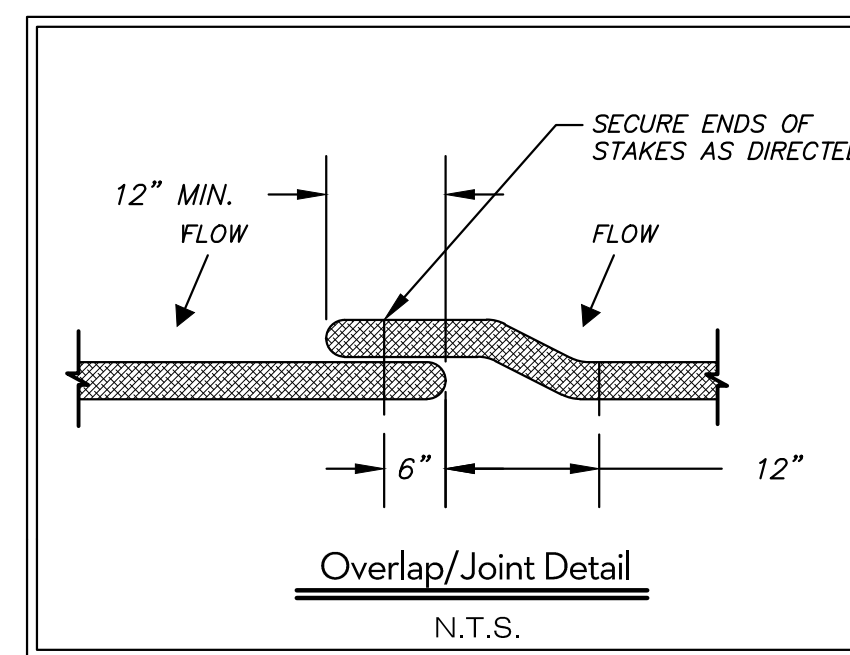


Typical Trench Detail for ADS Pipe and Contech Pipe

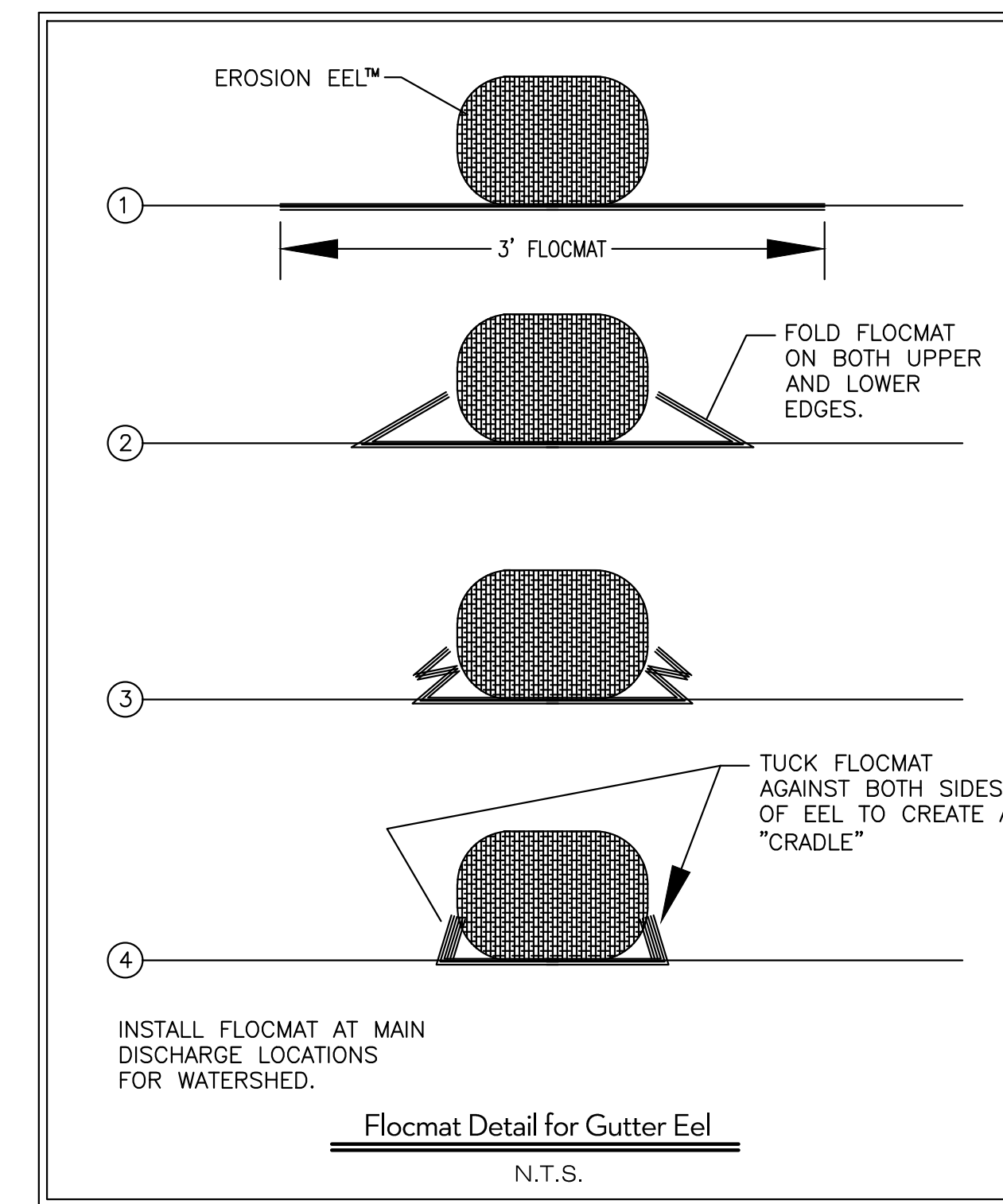
DIAMETER	TRENCH WIDTH
12"	34"
15"	38"
18"	44"
24"	54"
30"	65"
36"	75"
42"	90"
48"	100"
54"	110"
60"	125"
66"	135"
72"	150"
84"	170"

DIAMETER	CLASS I (MINIMUM)	CLASS II (MAXIMUM)
12" - 36"	24"	25"
42" - 84"	24"	32"

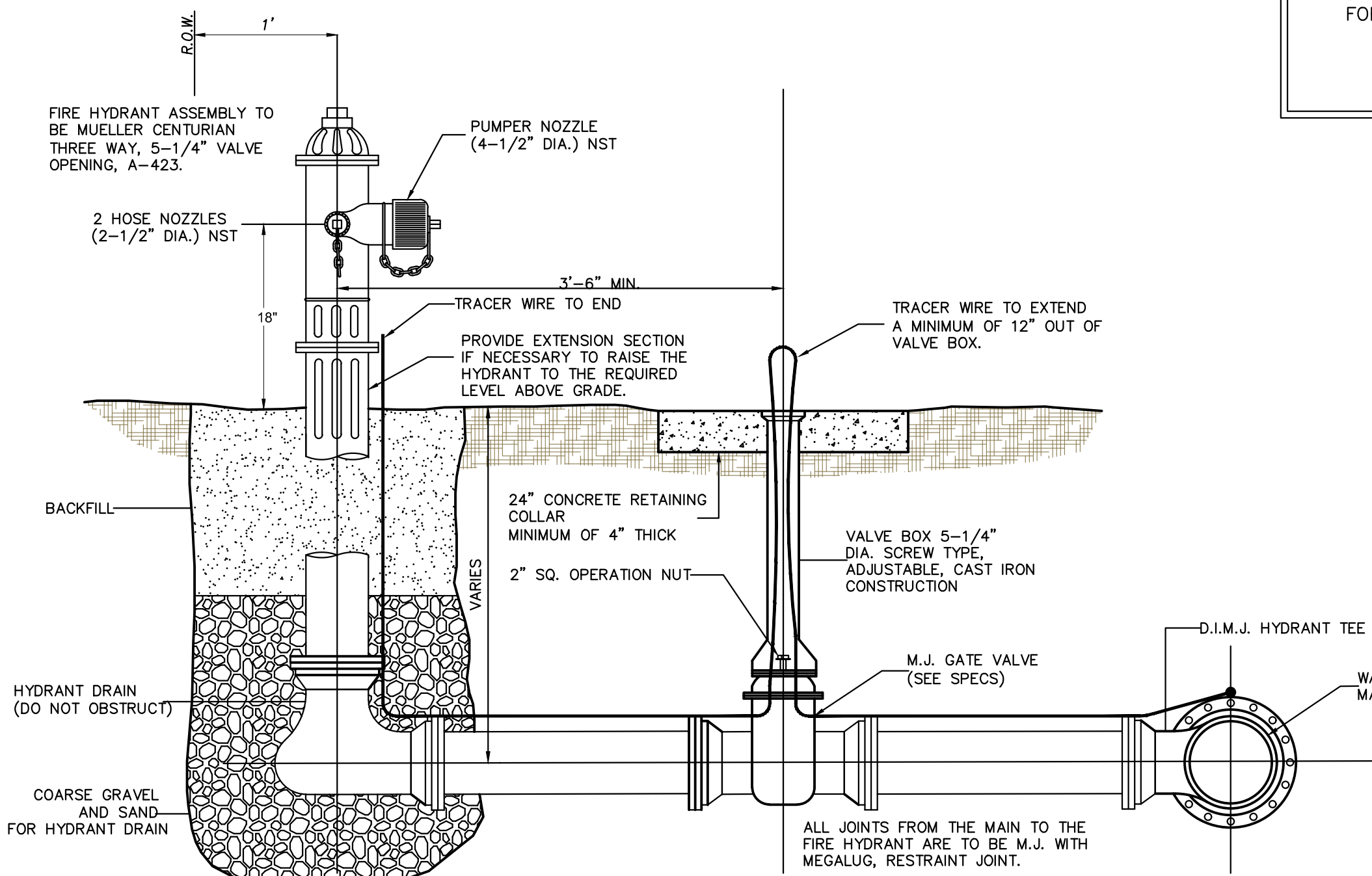
1. BEDDING MATERIAL AND STRUCTURAL BACKFILL SHALL MEET THE REQUIREMENTS OF AASHTO A-1, A-3, A-2-4 OR A-2-5 COMPACTED TO 95 STANDARD PROCTOR.
2. INSTALLATION: MINIMUM TRENCH WIDTHS SHALL MEET THE REQUIREMENTS OF TABLE 1. THE MIDDLE THIRD OF THE BEDDING MATERIAL UNDER THE PIPE SHOULD BE LOOSELY PLACED, WHILE THE REMAINDER SHALL BE COMPACTED TO A MINIMUM 95% OF MAXIMUM DENSITY PER AASHTO T-99. A MINIMUM OF 6 INCHES OF BEDDING SHALL BE PROVIDED PRIOR TO PLACEMENT OF THE PIPE. STRUCTURAL BACK FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING A 6" LOOSE LIFT THICKNESS AND BROUGHT UP EVENLY ON BOTH SIDES OF THE PIPE TO AN ELEVATION NOT LESS THAN 12 INCHES ABOVE THE TOP OF THE PIPE. A MINIMUM COMPACTION LEVEL OF 95% STANDARD DENSITY PER AASHTO T-99 SHALL BE ACHIEVED. MINIMUM COVER REQUIREMENTS SHALL MEET THE REQUIREMENTS OF TABLE 2.



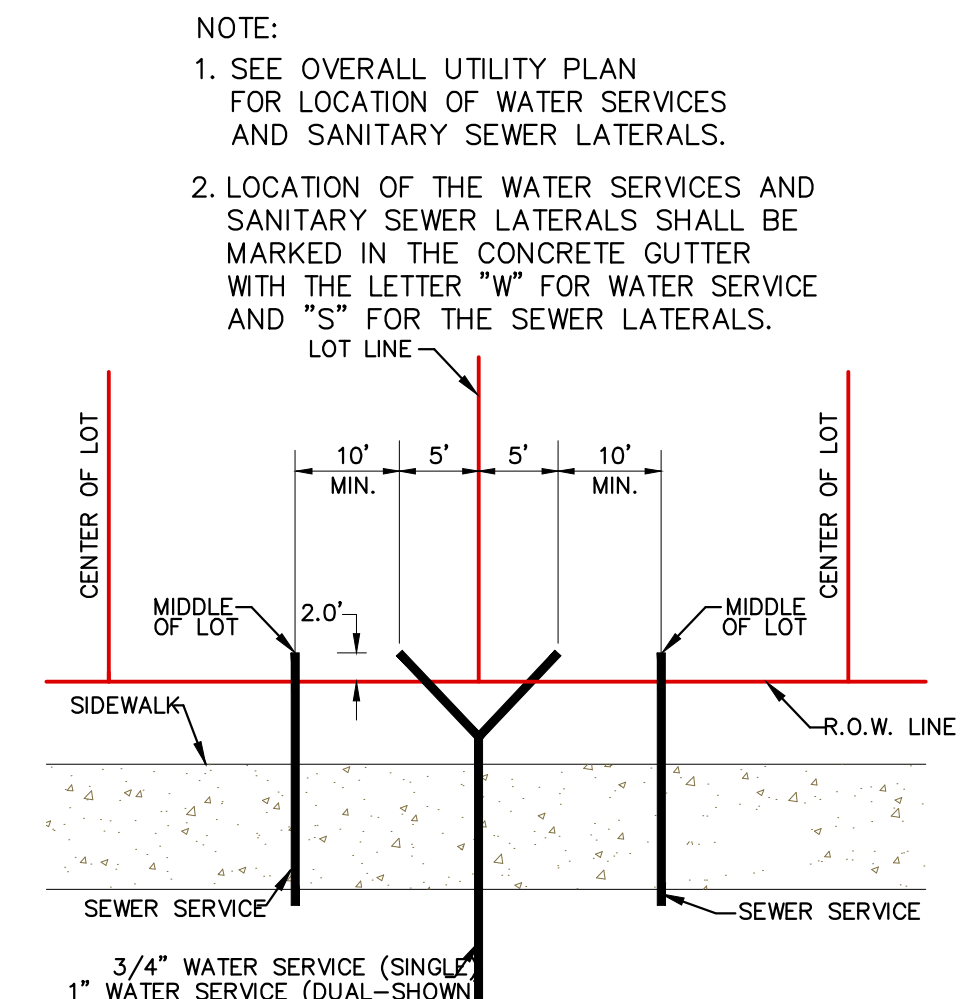
Overlap/Join Detail
N.T.S.



Flocmat Detail for Gutter Eel
N.T.S.



FIRE HYDRANT ASSEMBLY



WATER SERVICE & SEWER LATERAL LOCATION PLAN

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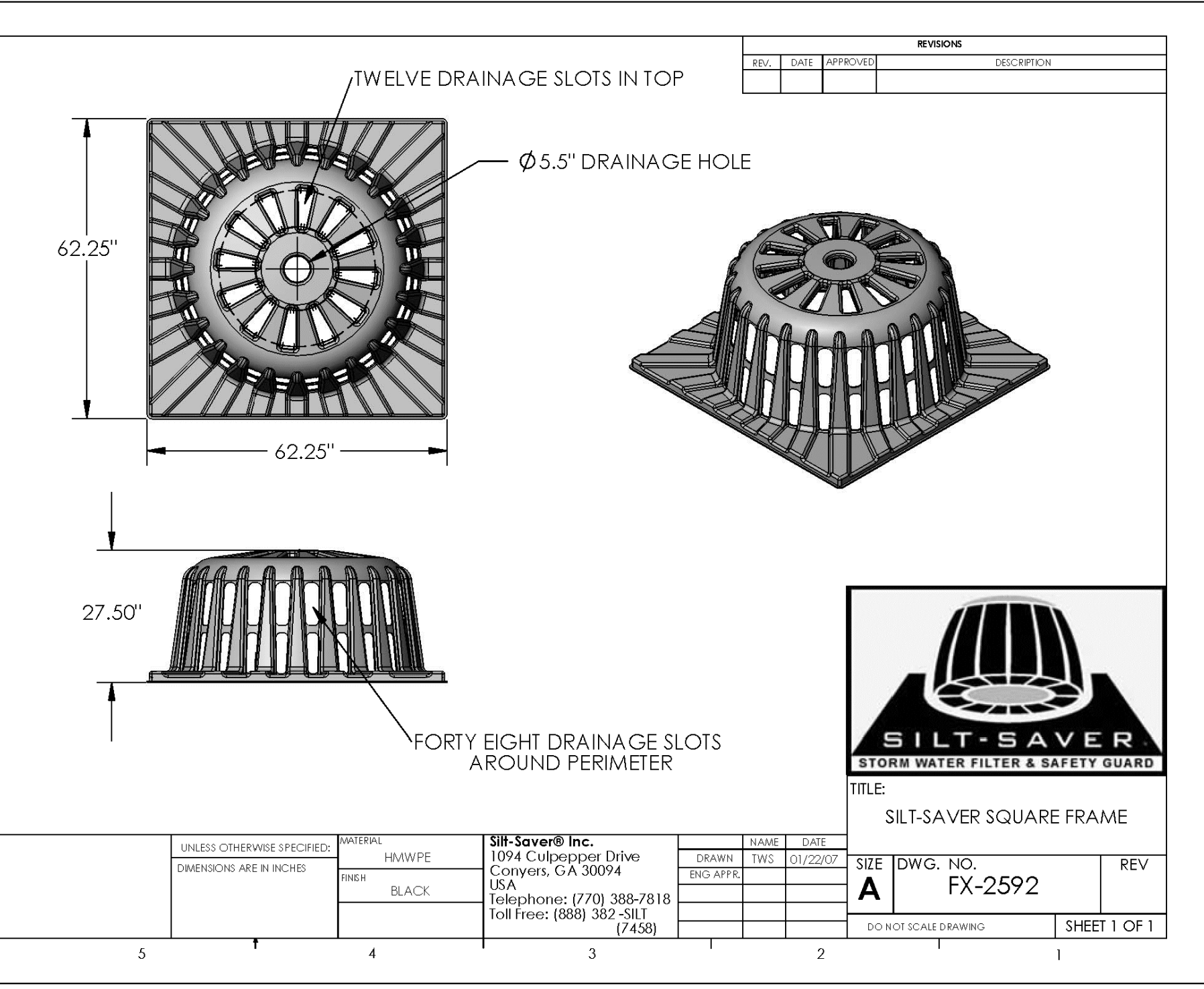
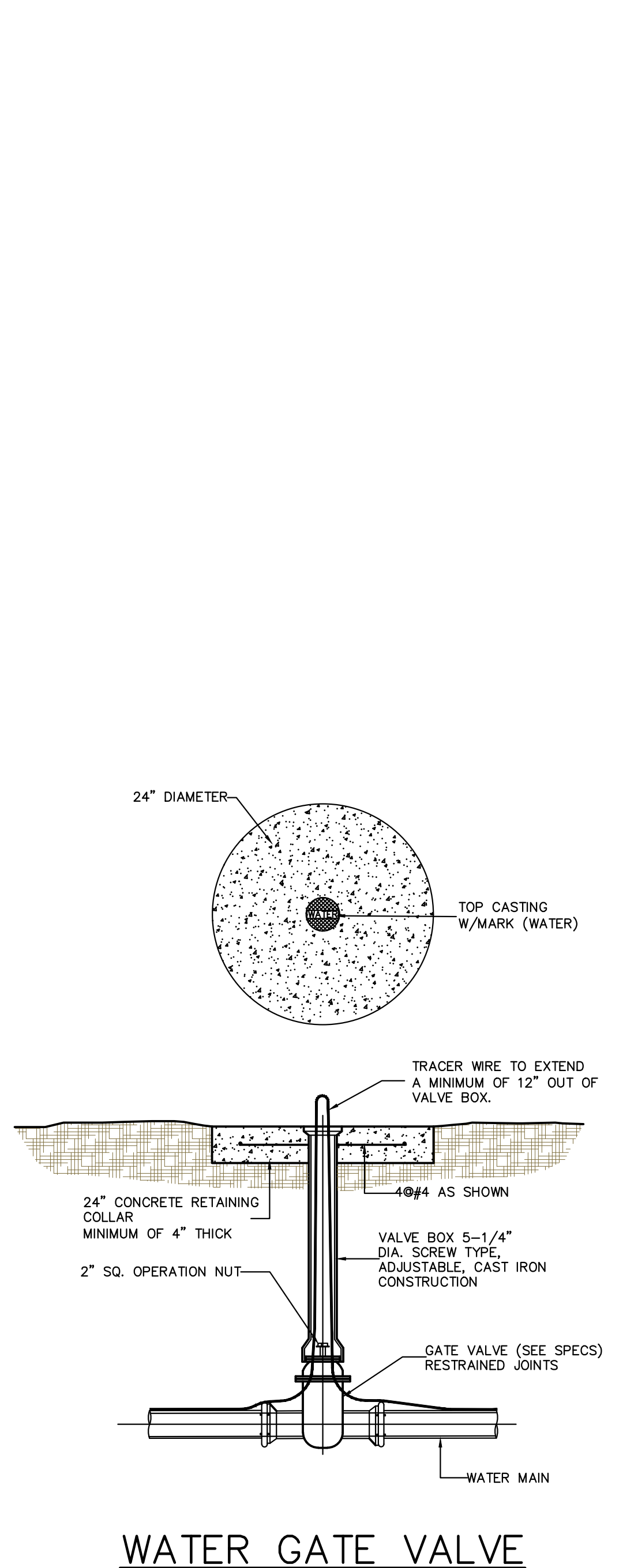
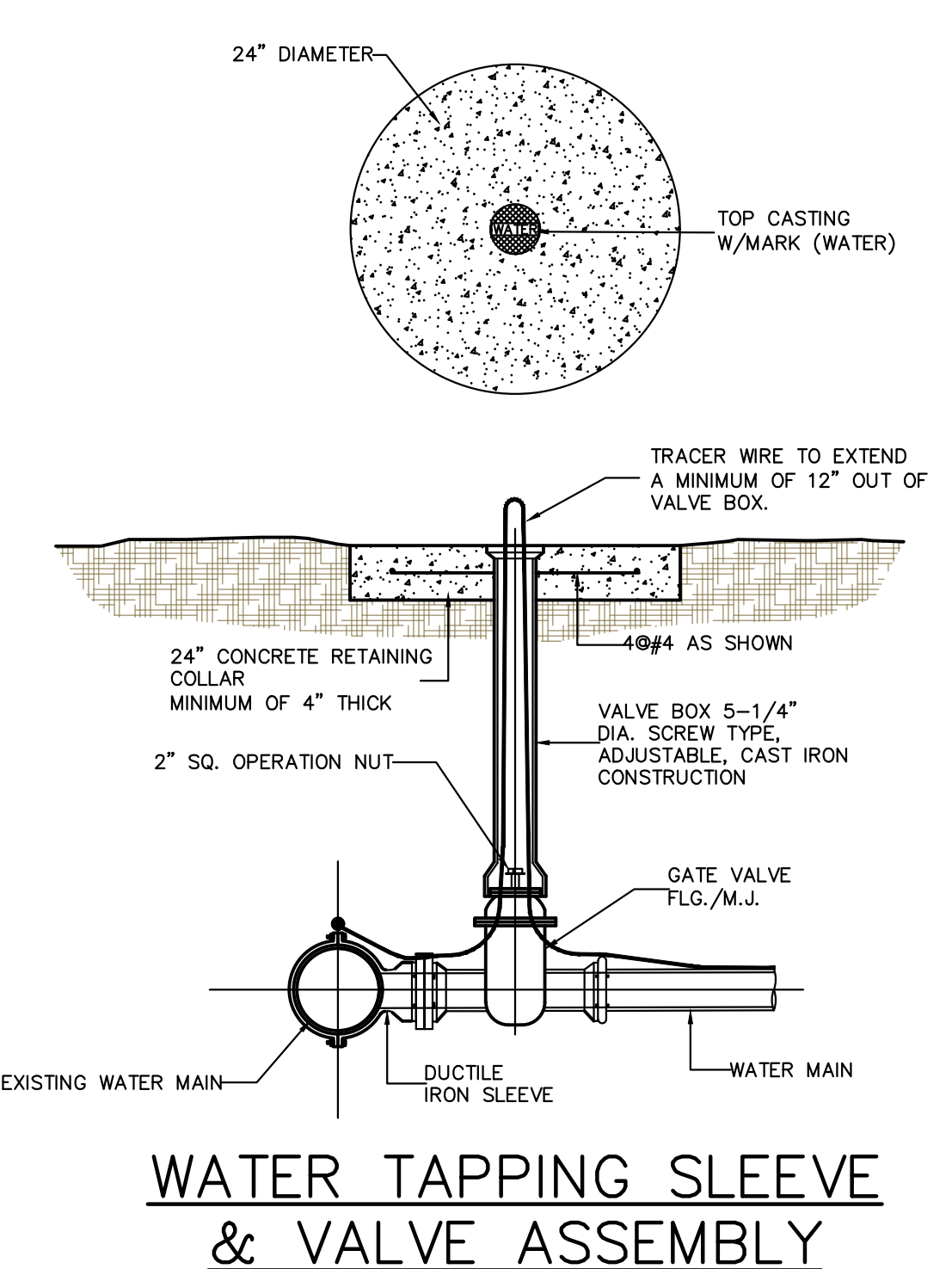
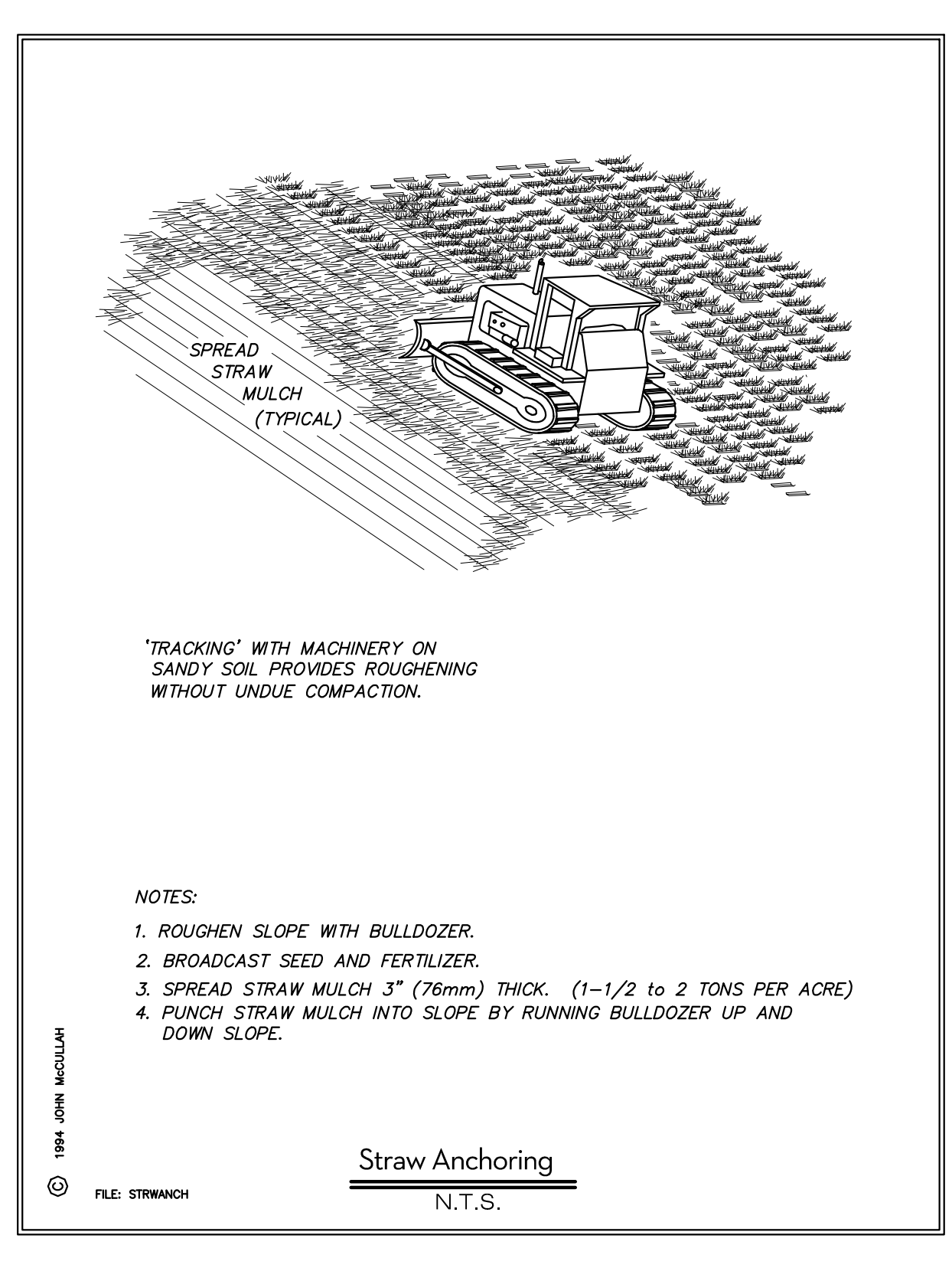
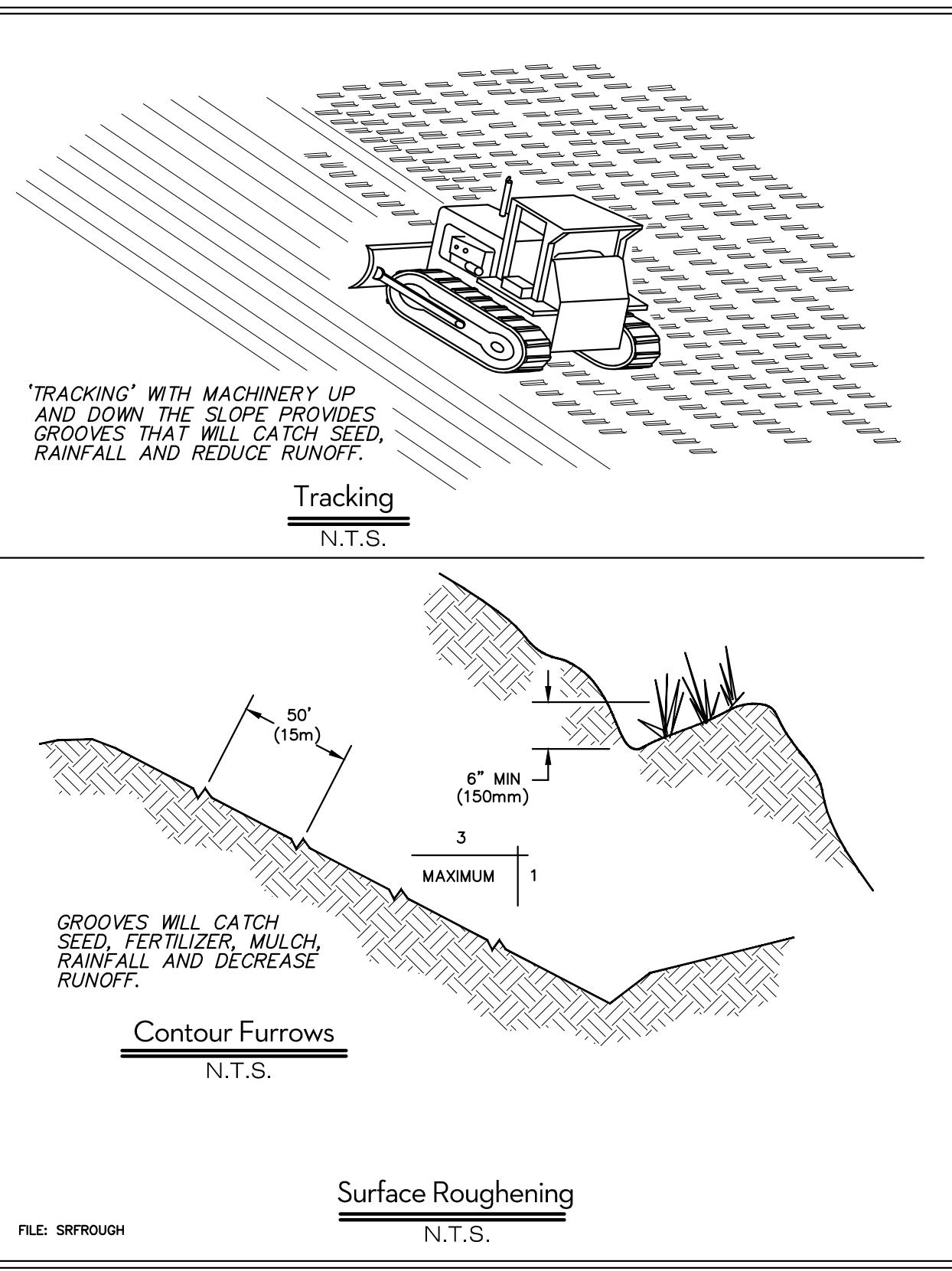
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ISSUED FOR BID	12.06.2023
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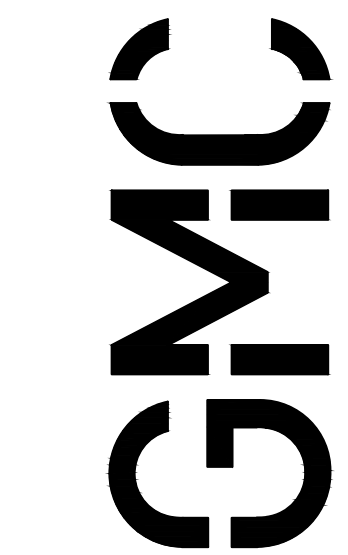
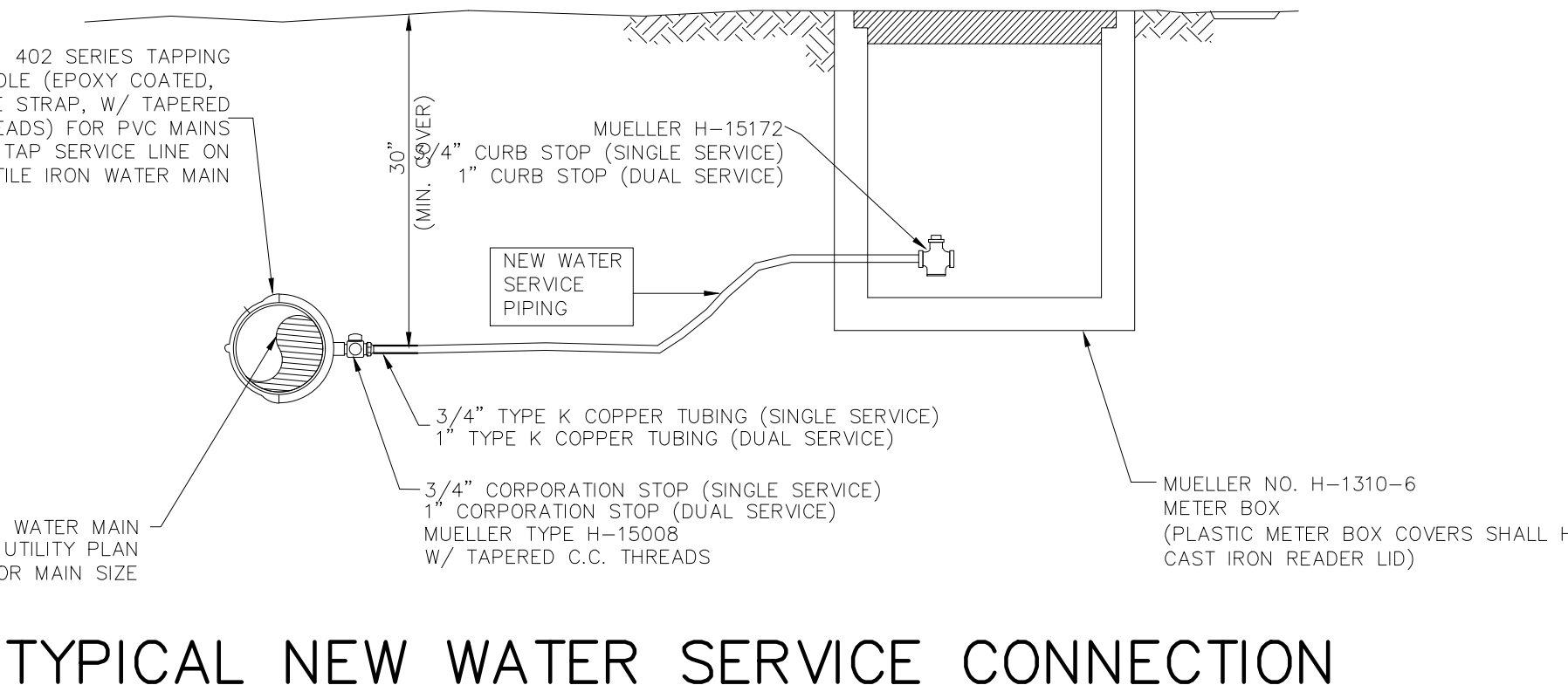
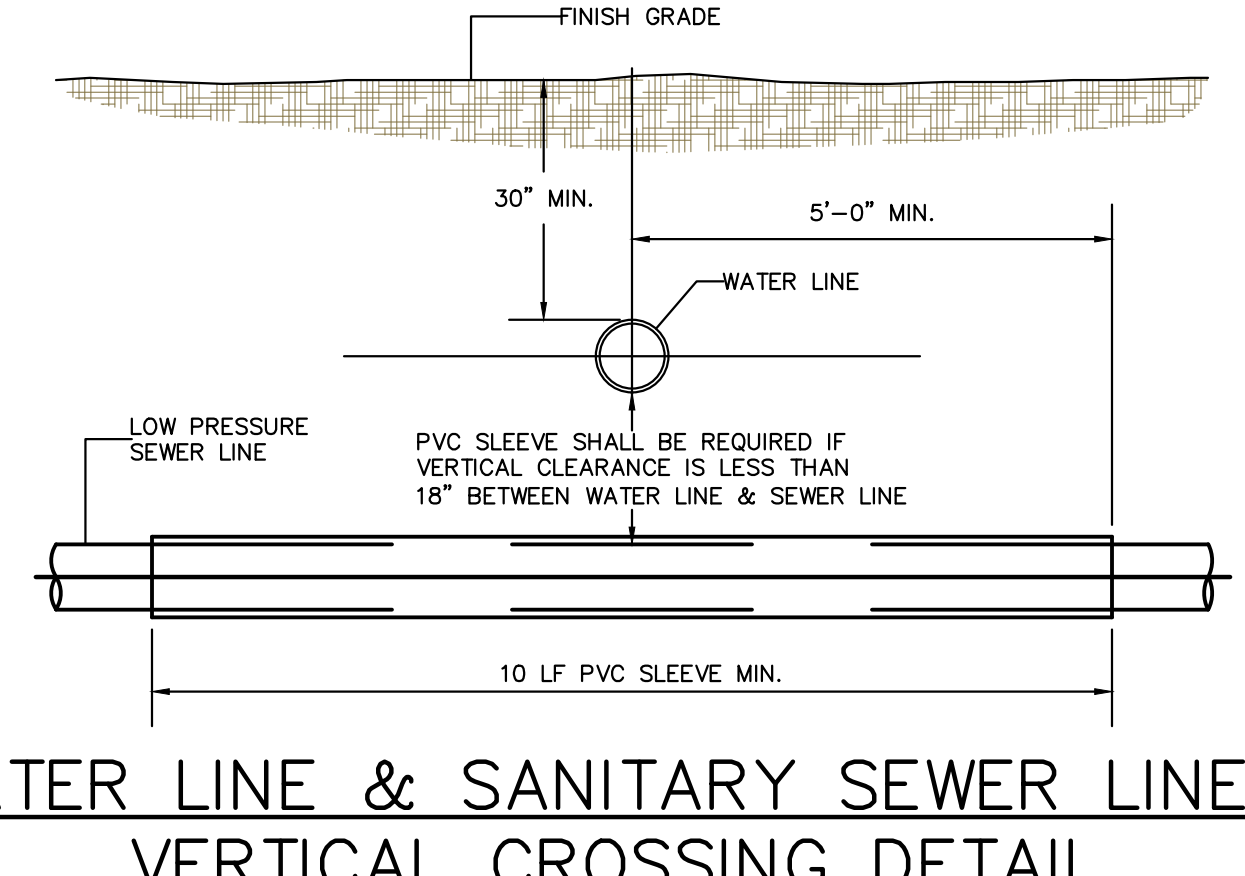
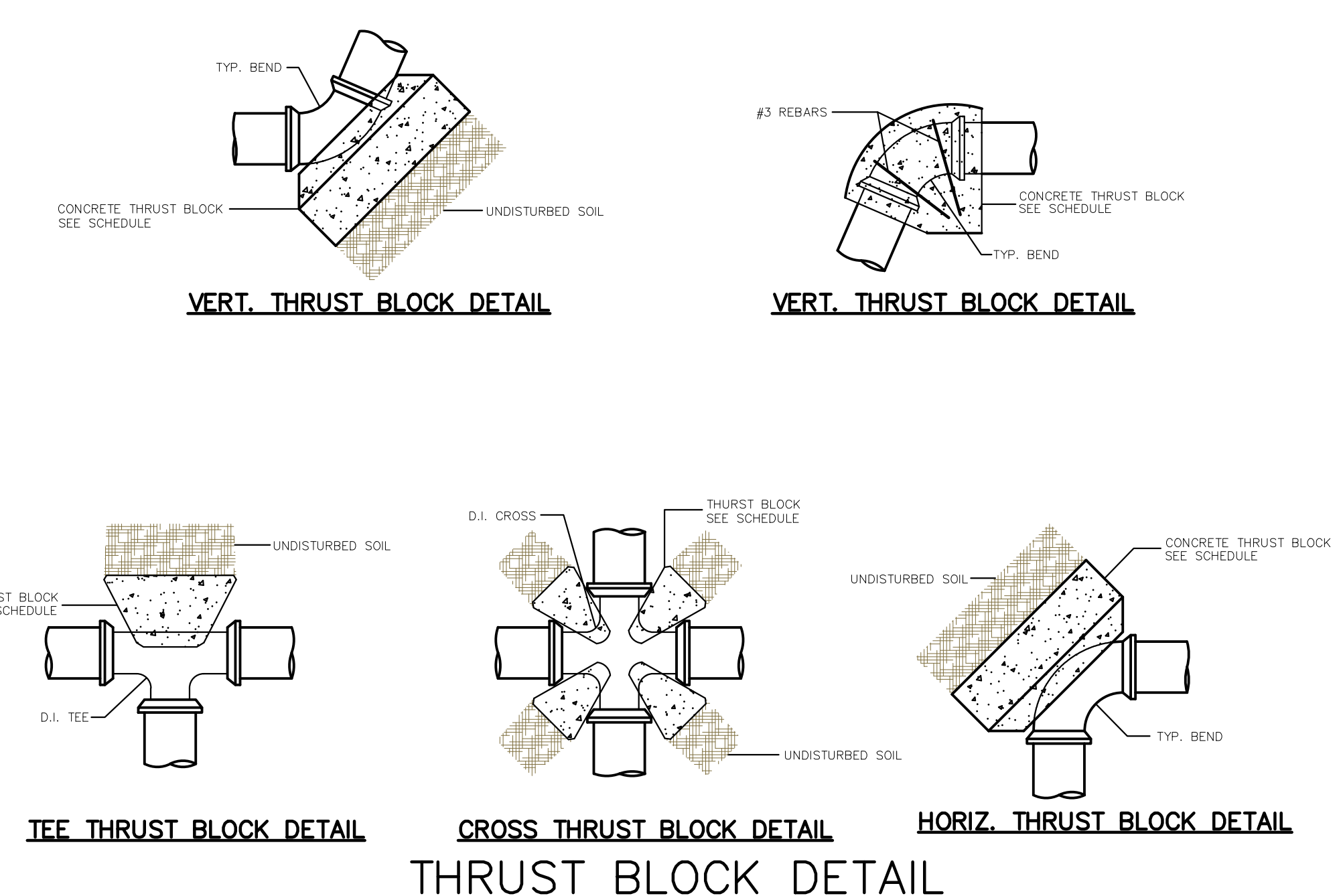
DETAILS

C-902



SIZE	THRUST BLOCK BEARING AREAS (SQ.FT.)					VERTICAL ANCHOR BLOCK VOLUMES		
	PLUGGED END OR TEE	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND	45° VERT. BEND	22-1/2° VERT. BEND	GATE VALVE
2" DIA. PIPE LINE	1.0	1.0	1.0	1.0	1.0	9.3 CU. FT.	4 CU. FT.	0.5 CU. FT.
4" DIA. PIPE LINE	1.9	2.6	1.4	1.0	1.0	21.1 CU. FT.	9.6 CU. FT.	0.8 CU. FT.
6" DIA. PIPE LINE	3.6	5.0	2.7	1.4	1.0	50 CU. FT.	16 CU. FT.	1.0 CU. FT.
8" DIA. PIPE LINE	5.8	8.2	4.4	2.25	1.2			1.5 CU. FT.

NOTE: THRUST BLOCK BEARING AREAS SHALL BE INCREASED IN POOR TRENCH CONDITIONS AS DIRECTED BY THE ENGINEER. DESIGN CRITERIA: TEST PRESSURE - 150 PSI SOIL BEARING PRESSURE - 1 TON PER SQ. FT.



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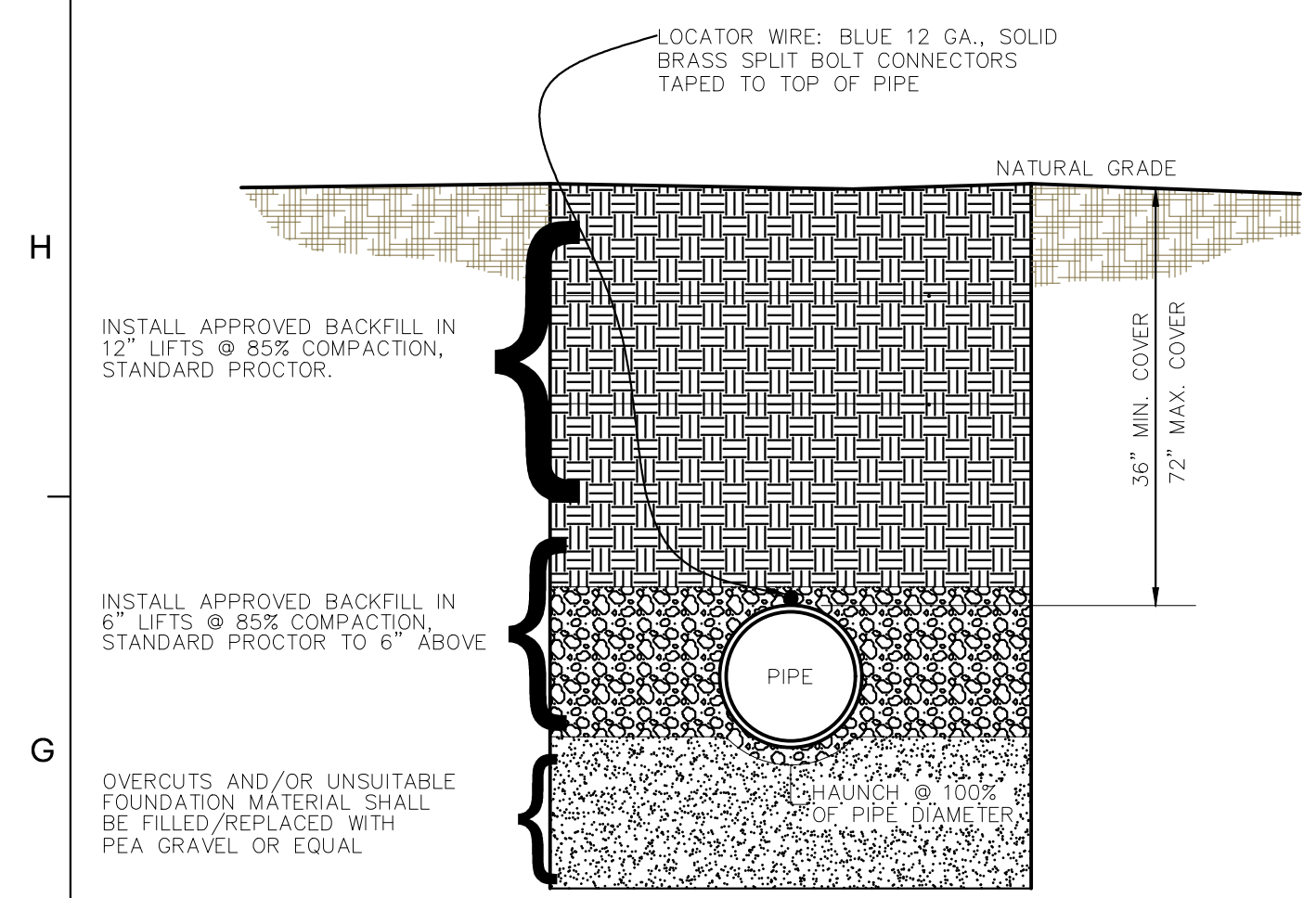
DETAILS

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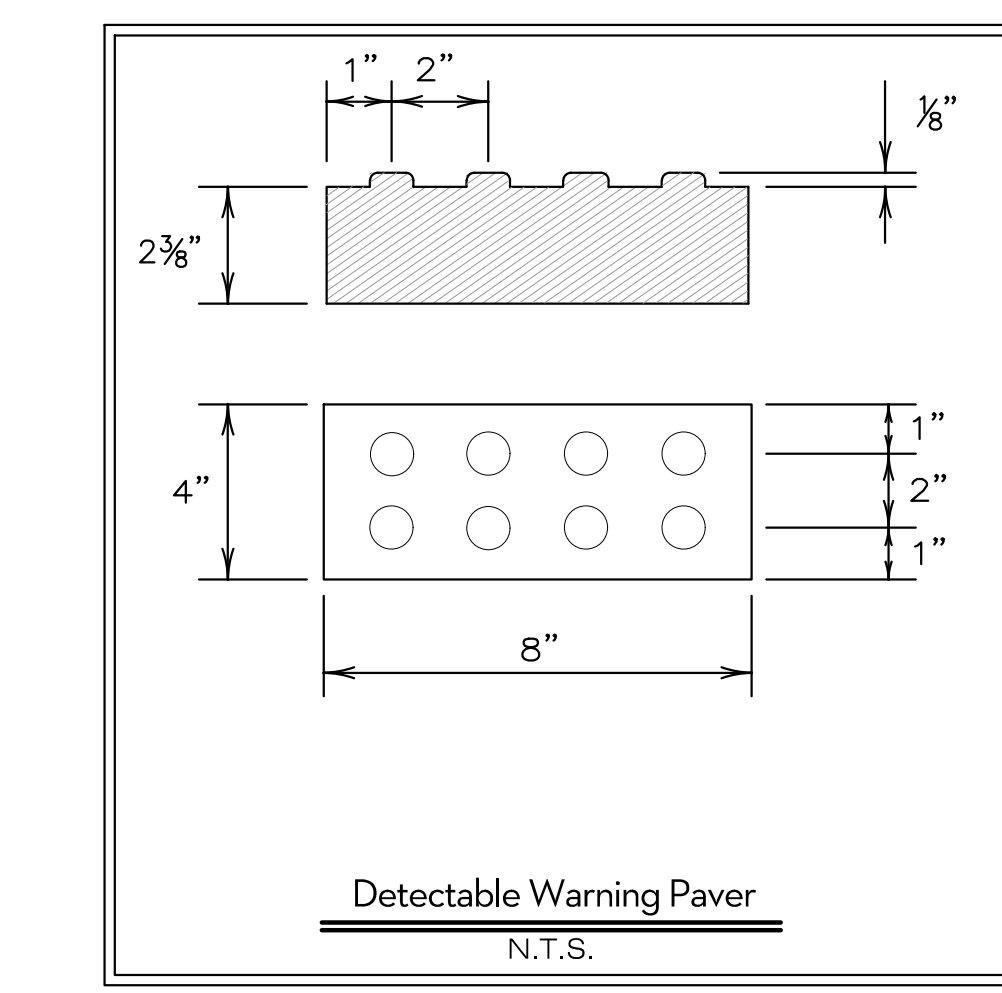
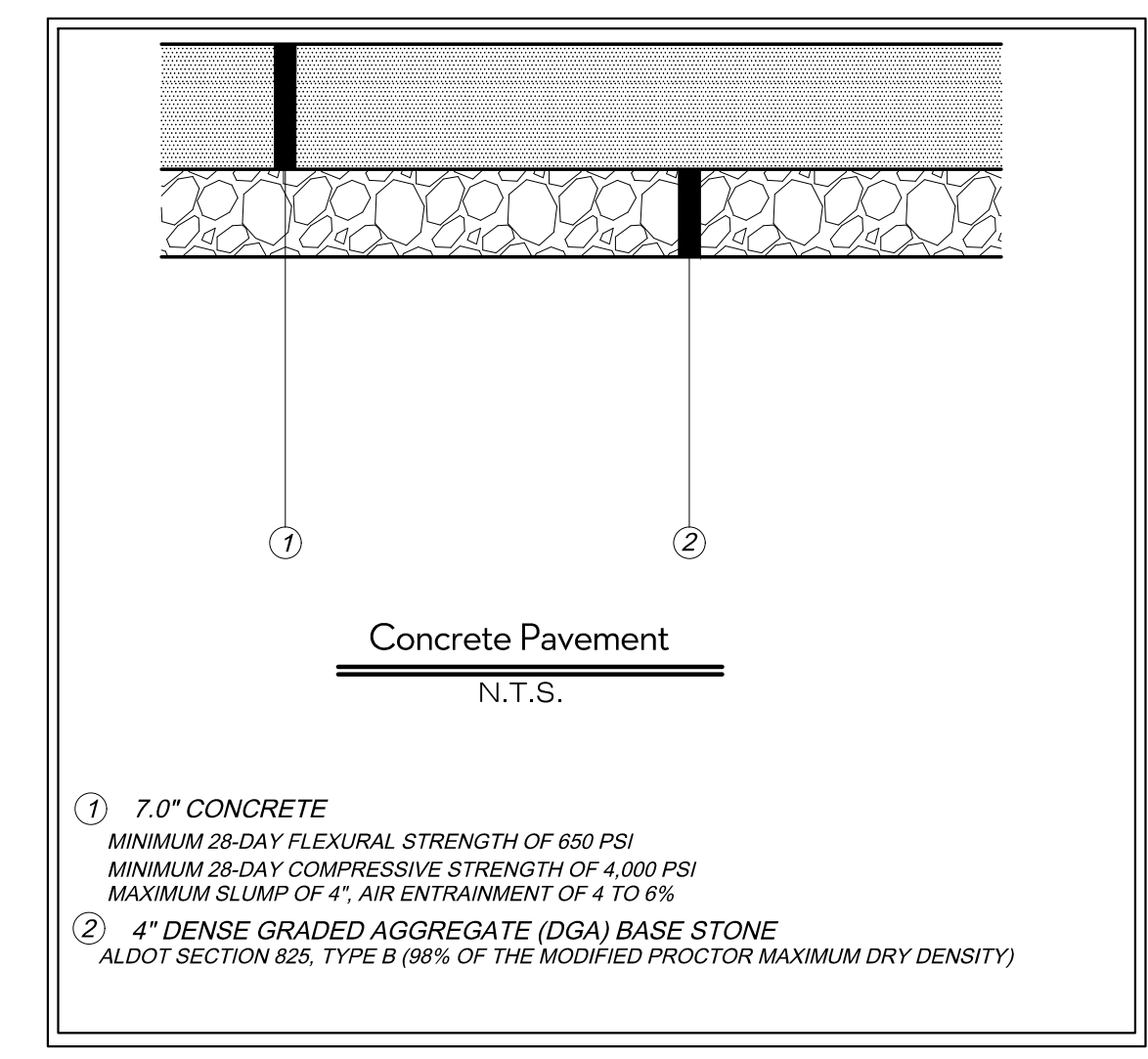
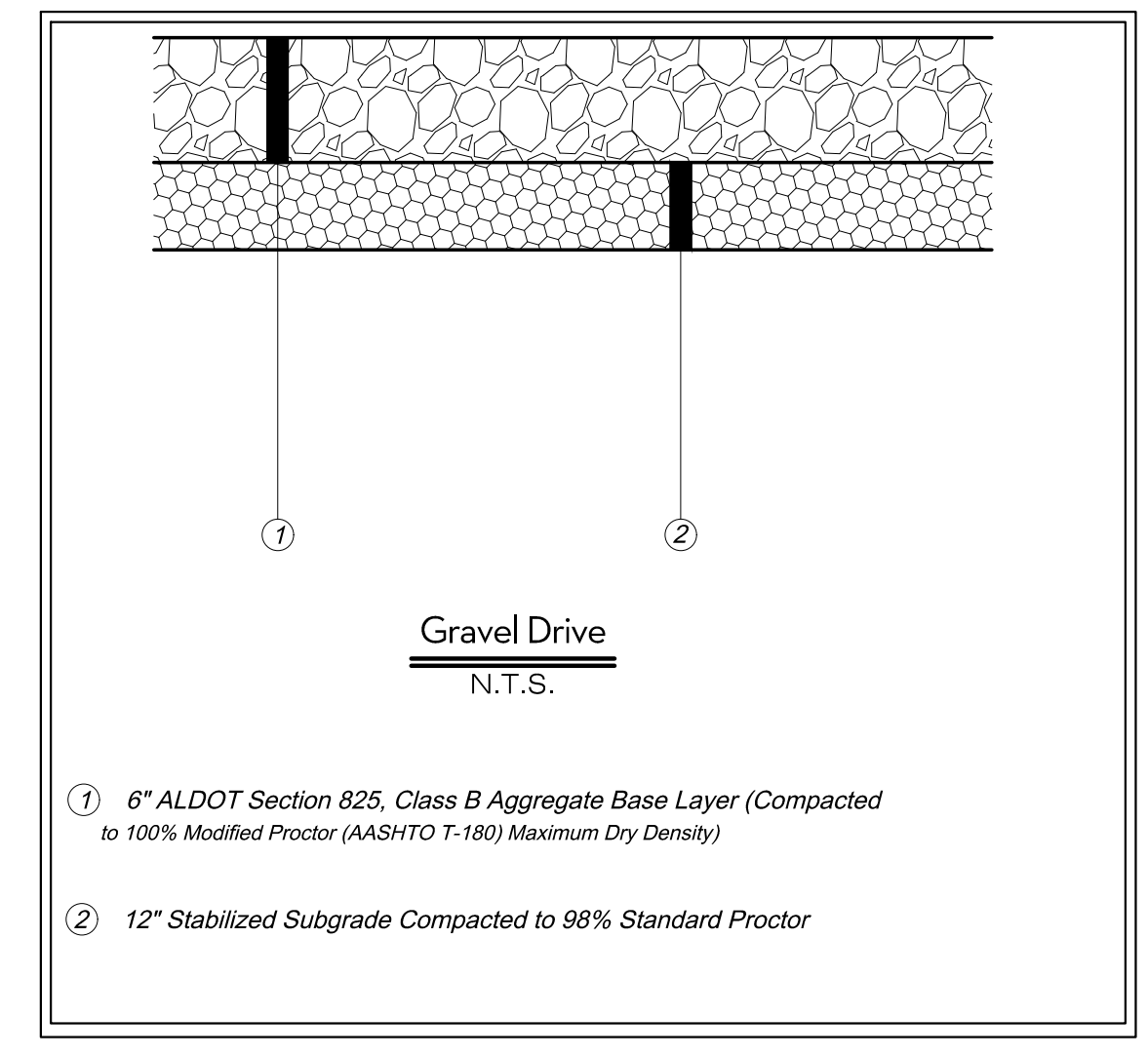
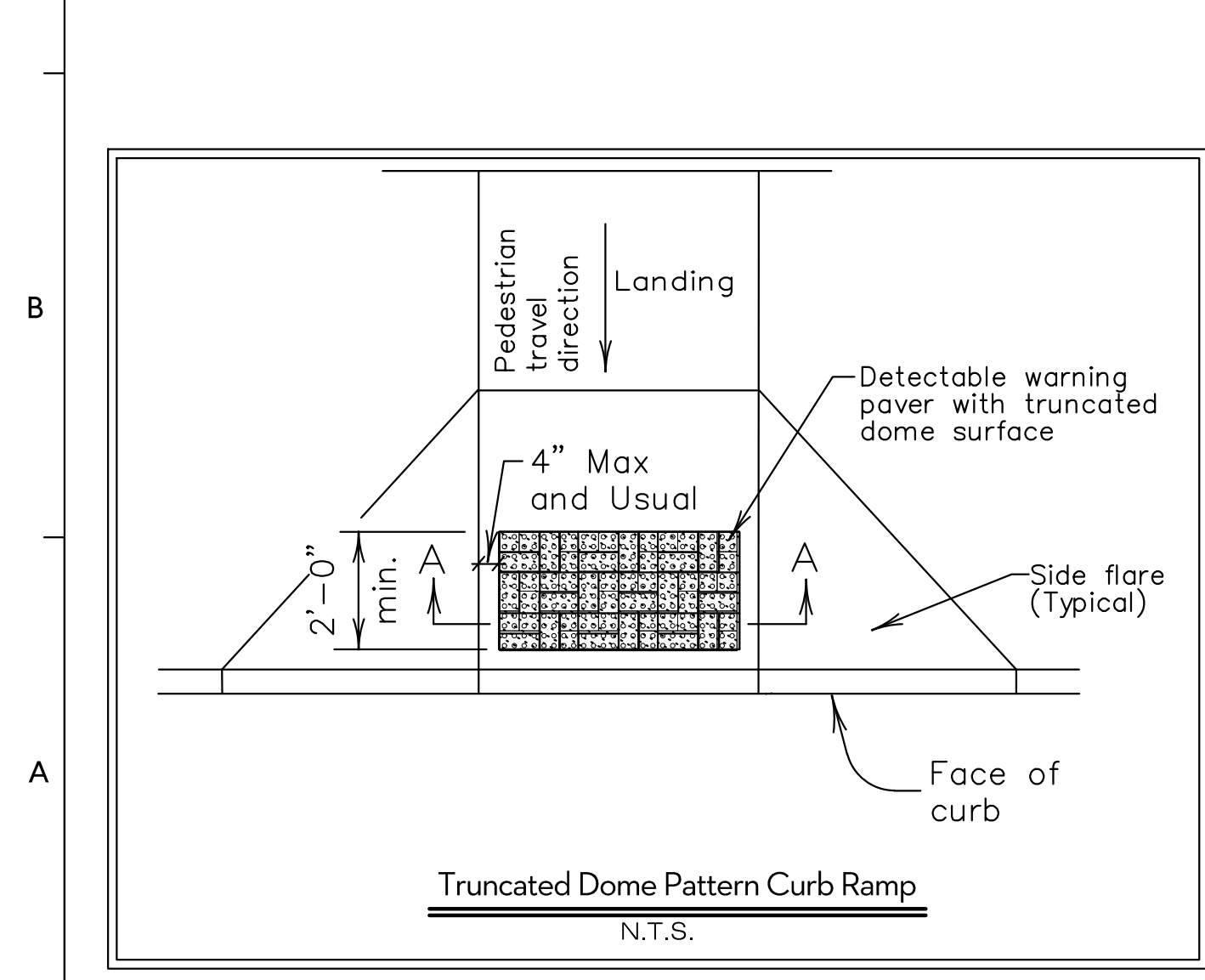
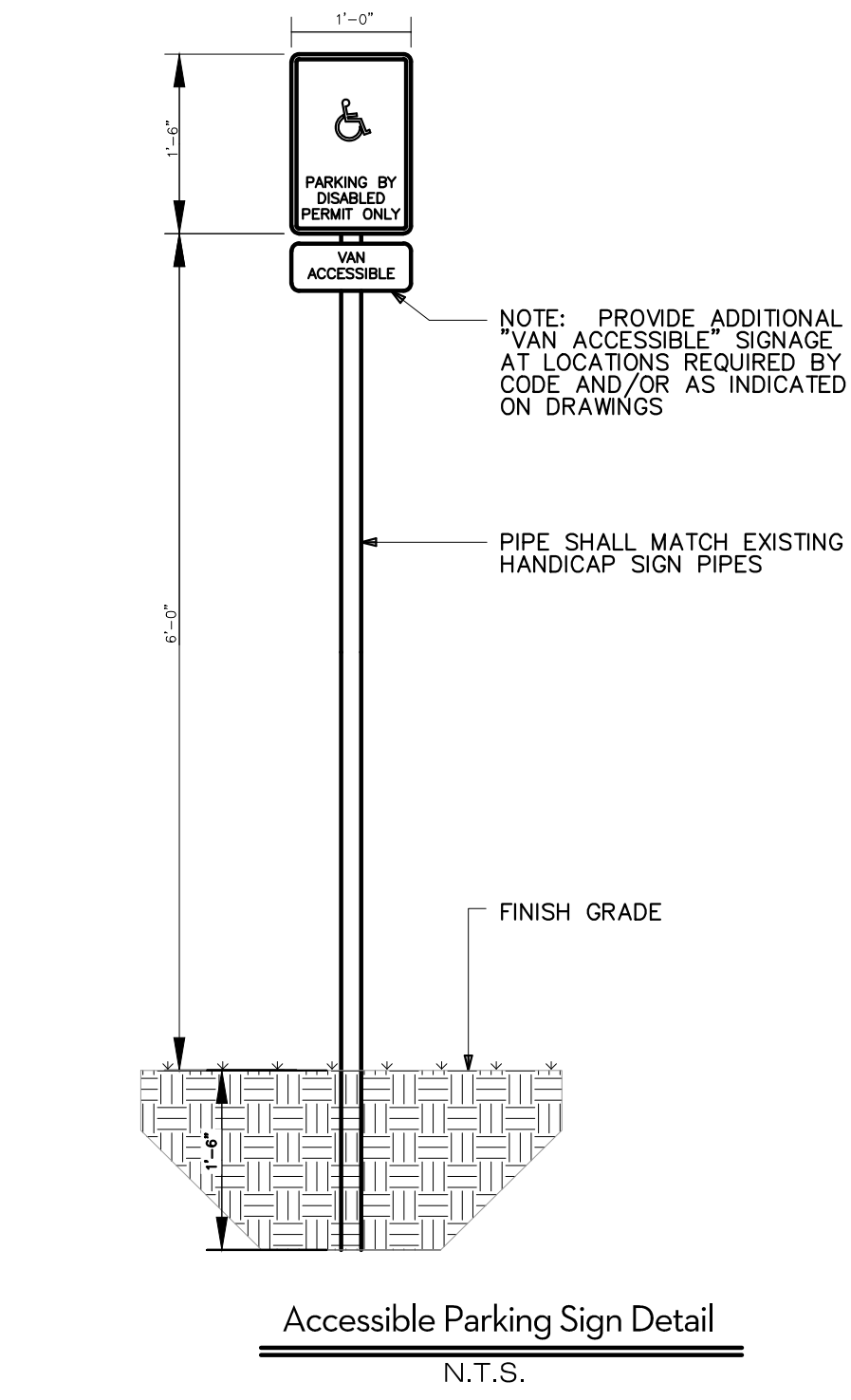
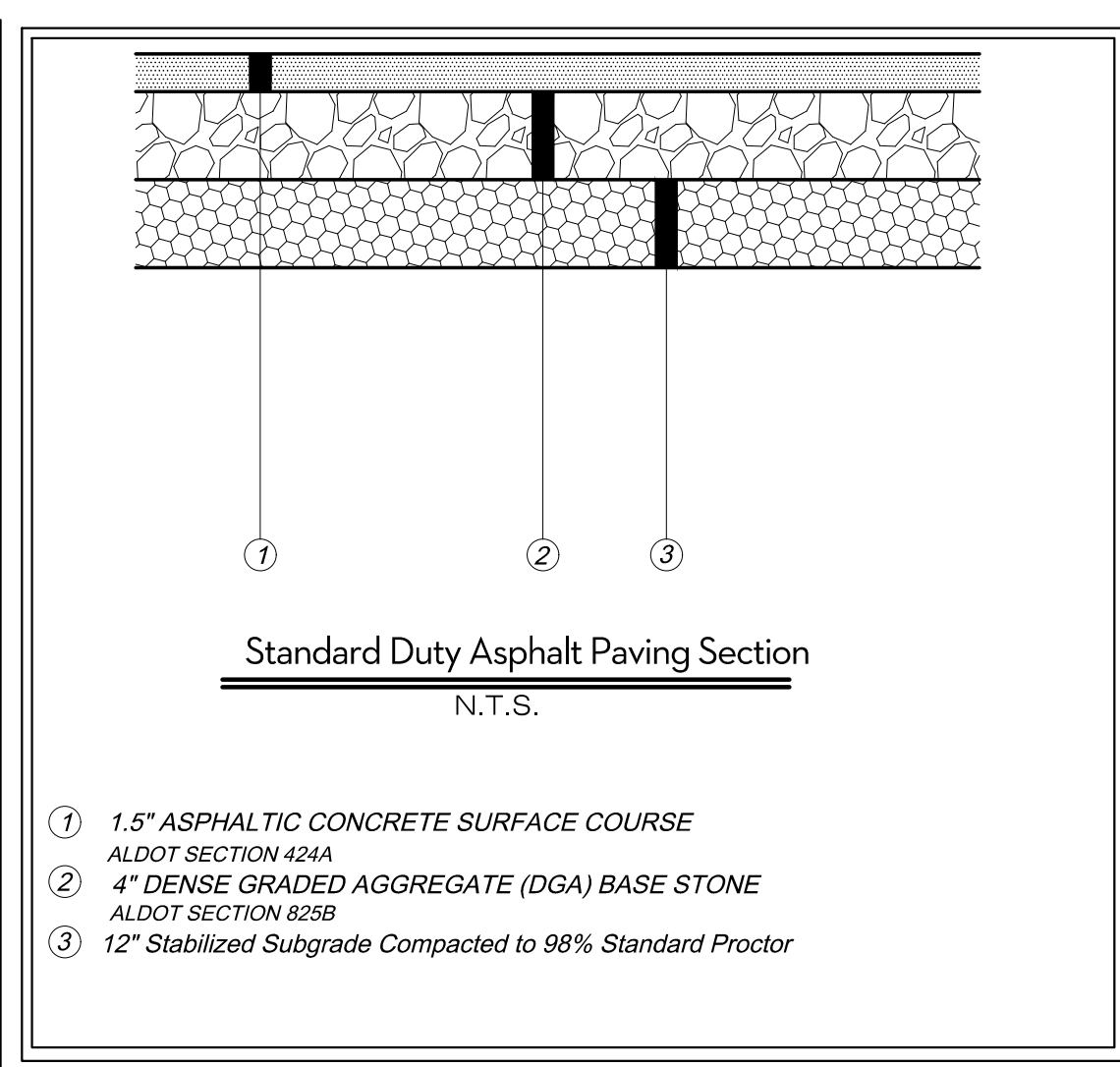
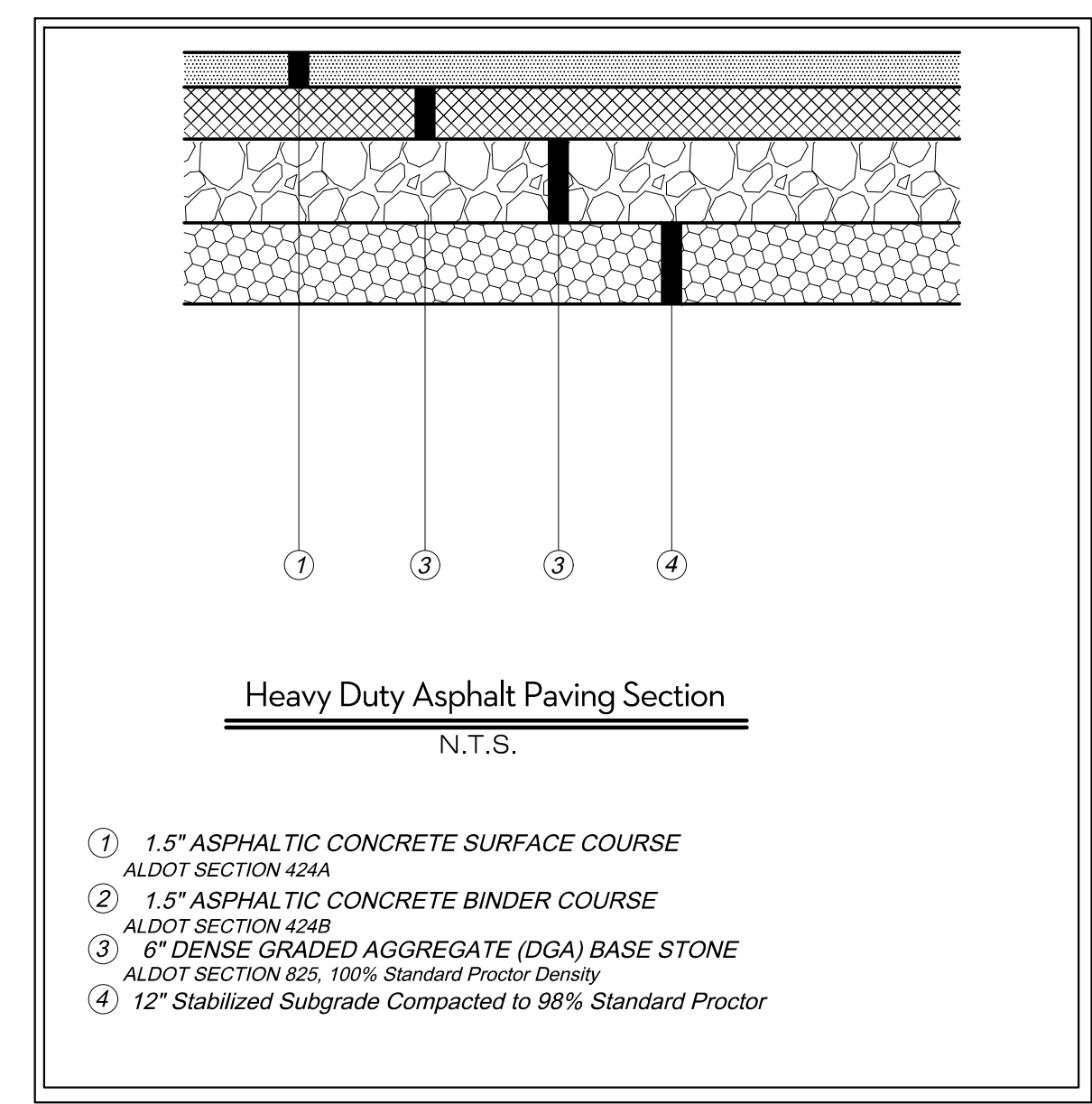
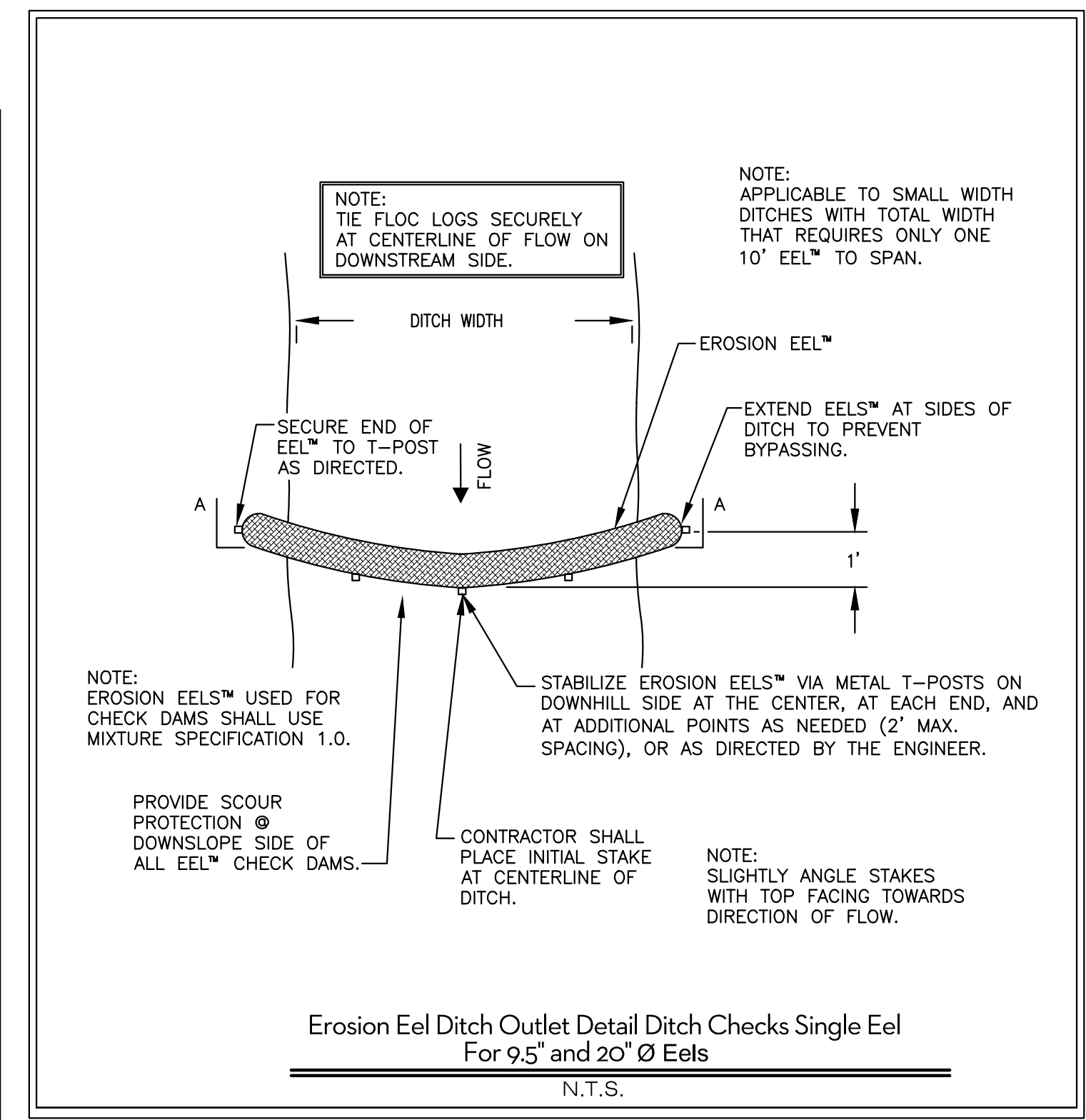
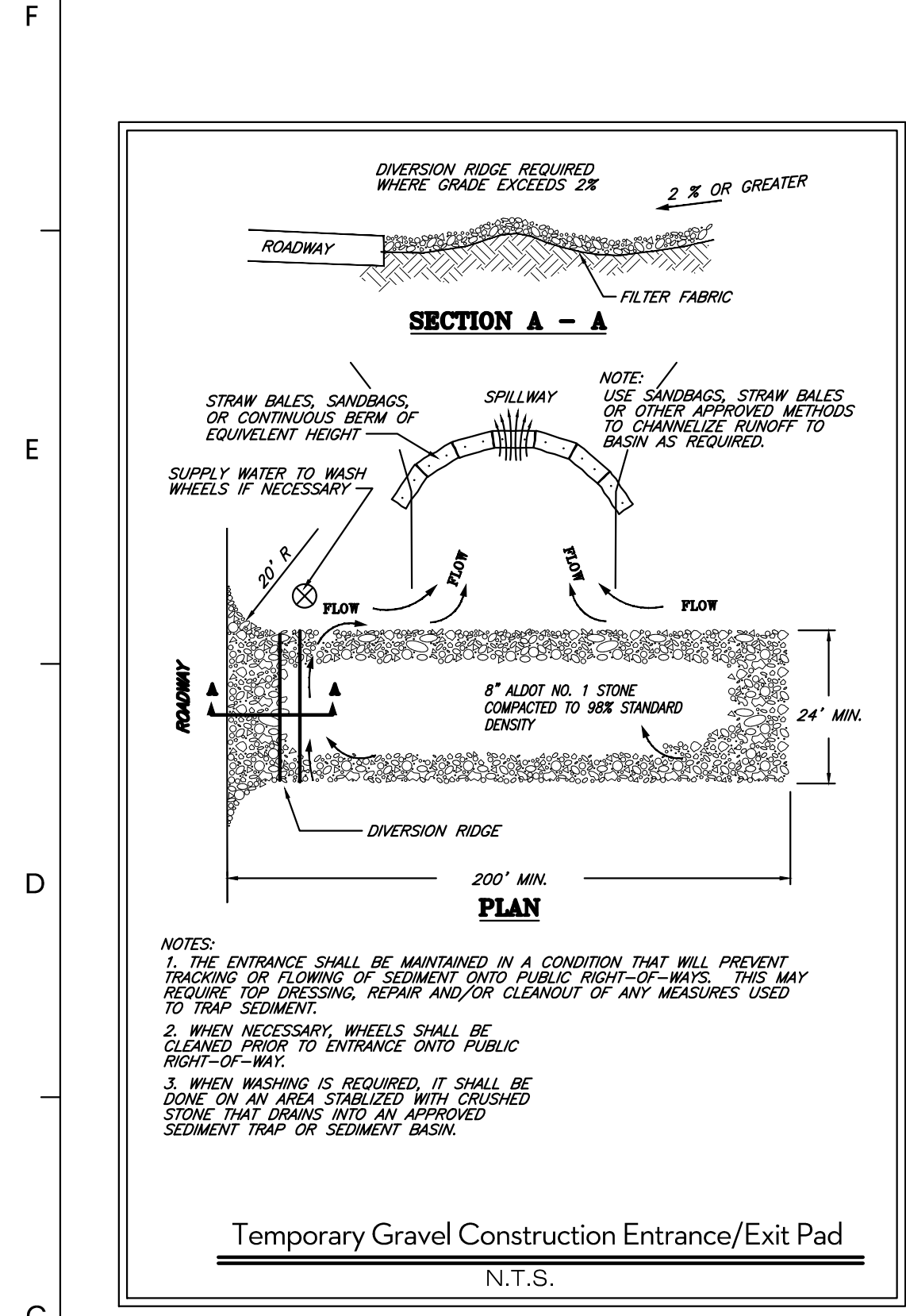
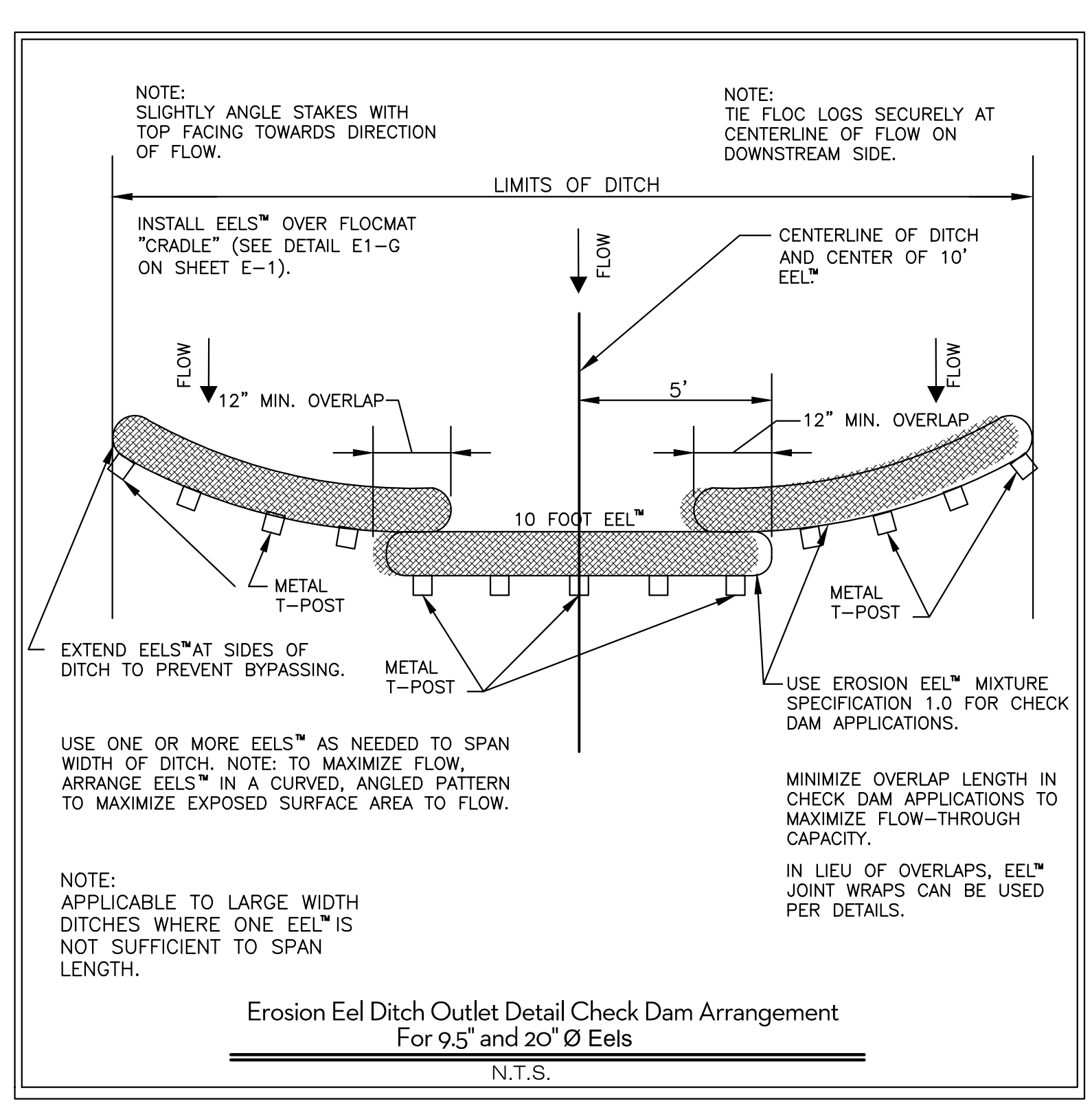
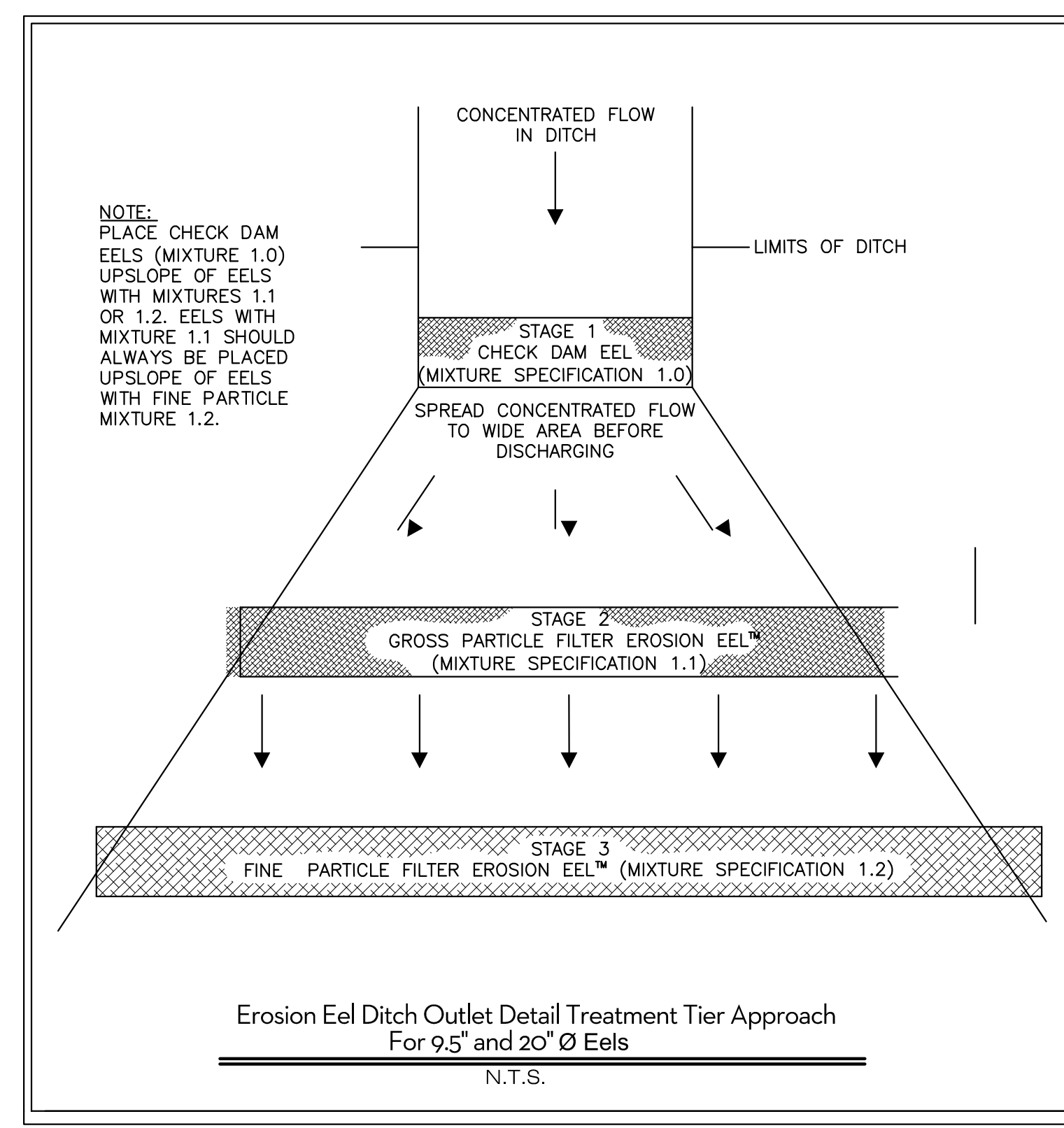
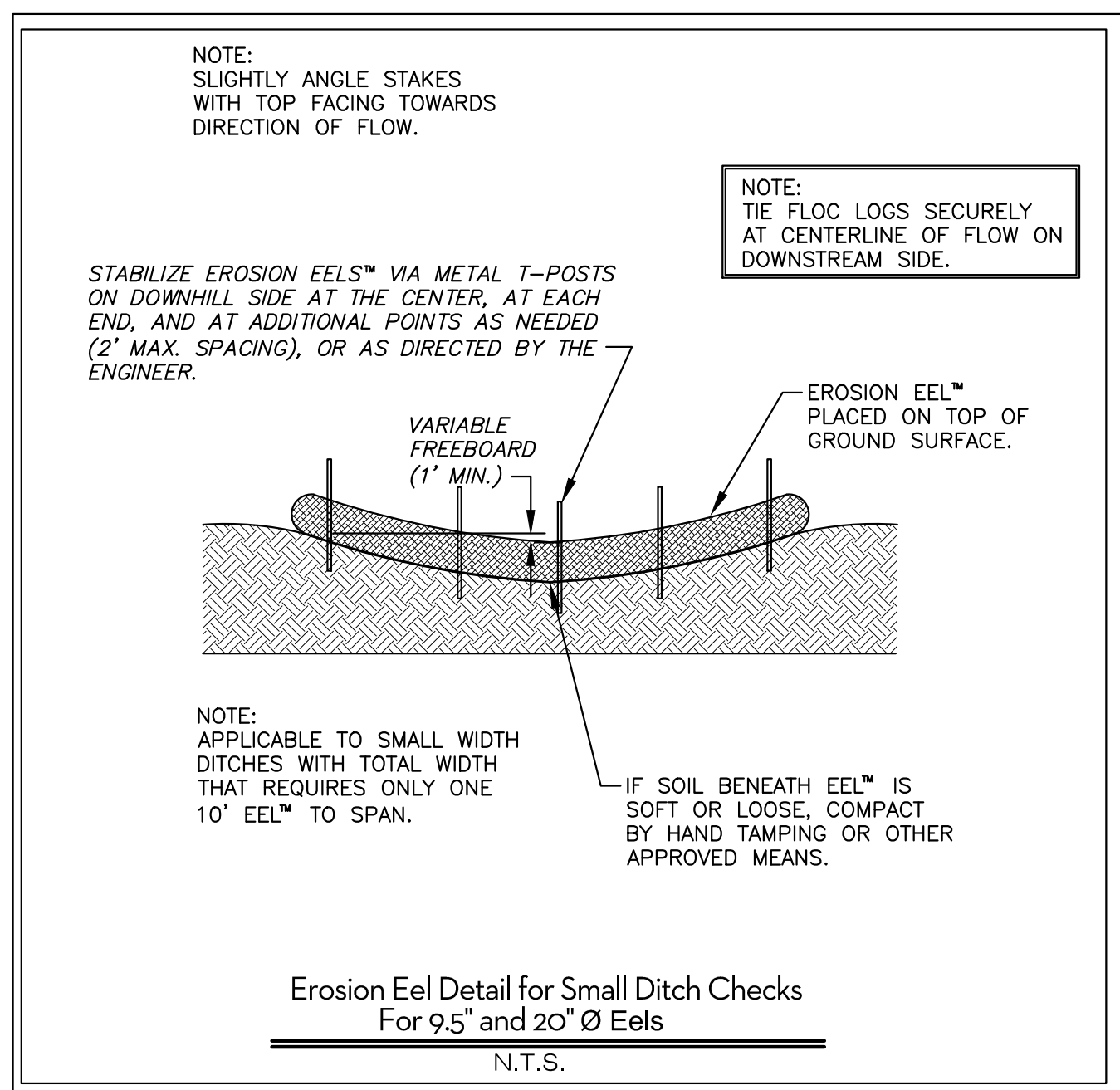
C-903

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TYPICAL TRENCH DETAIL



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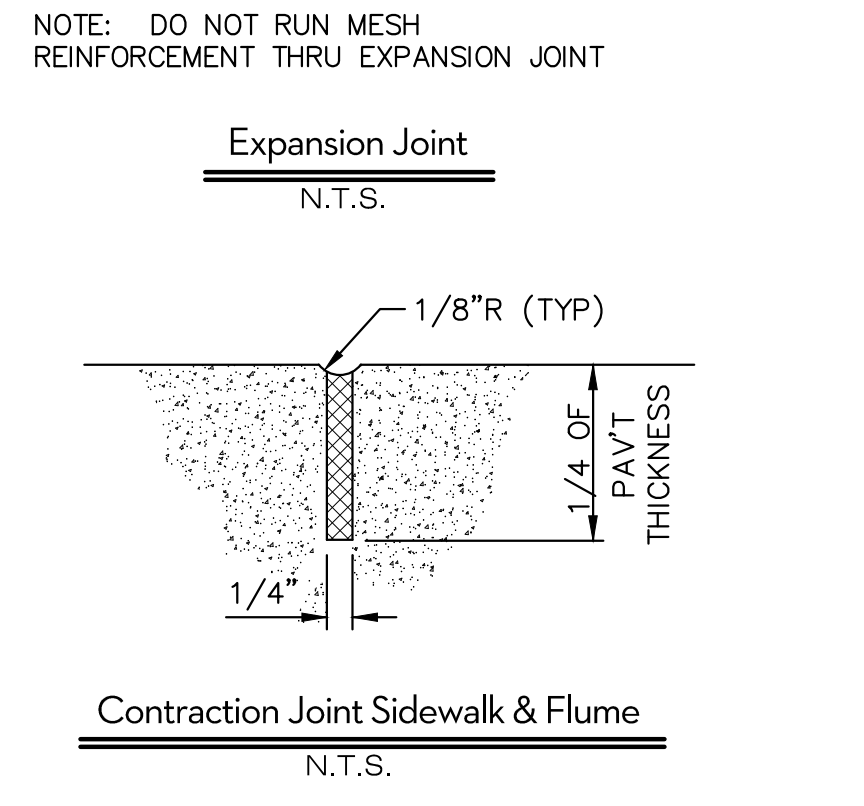
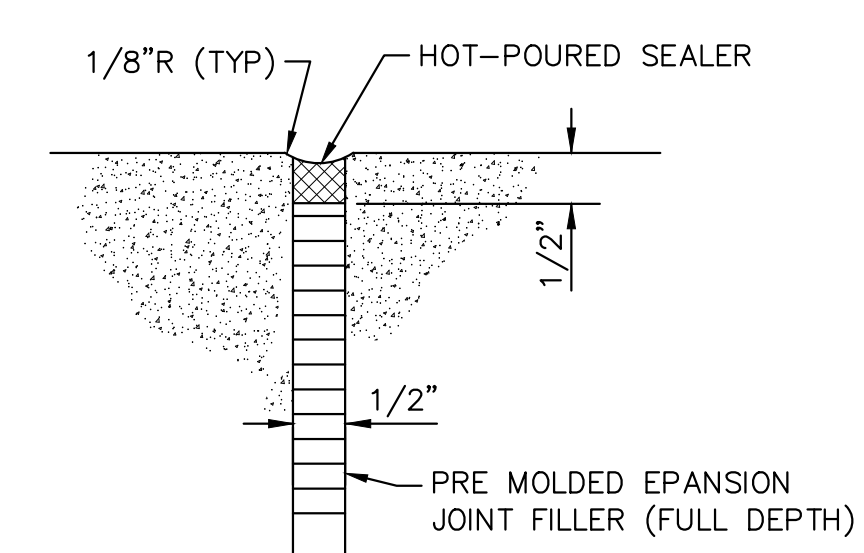
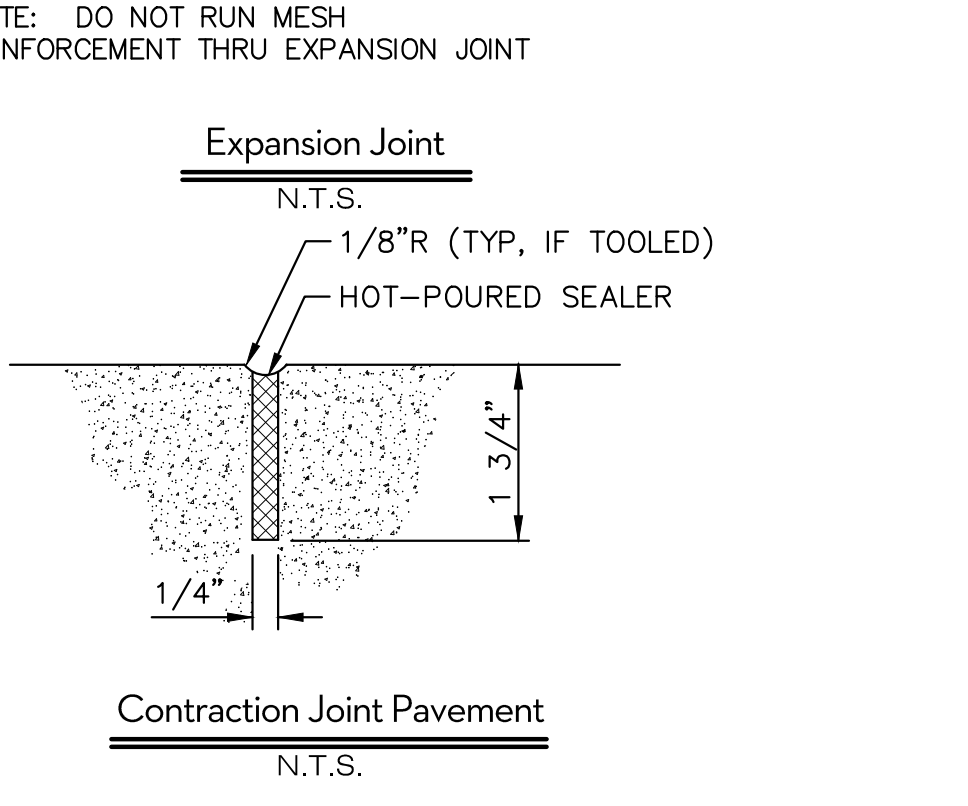
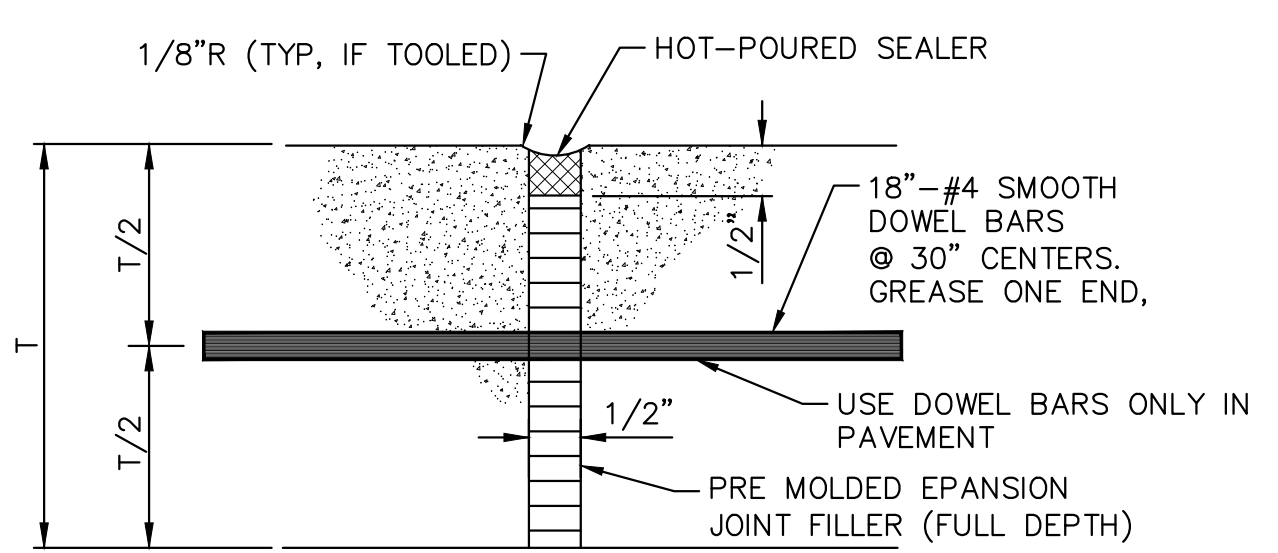
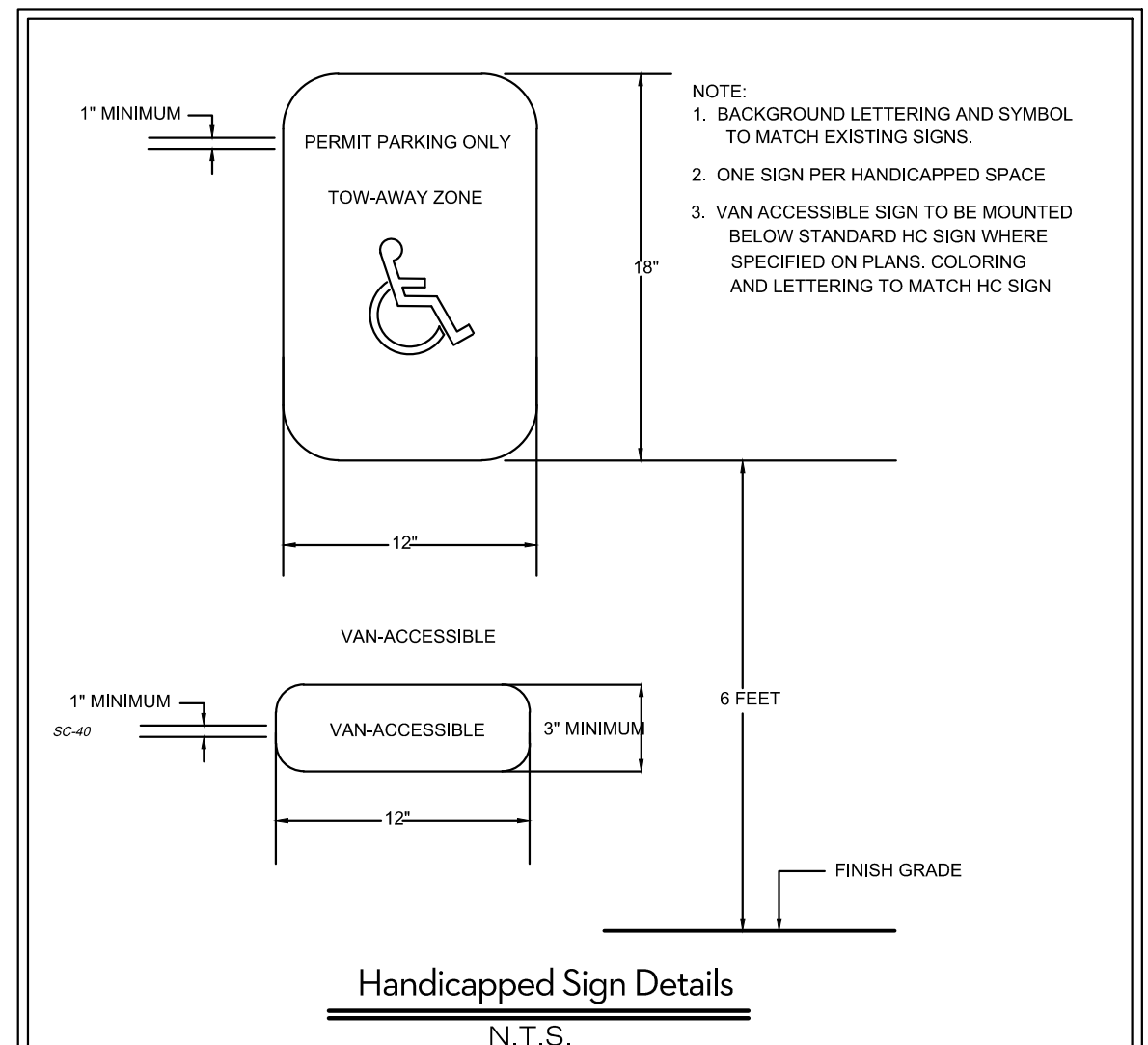
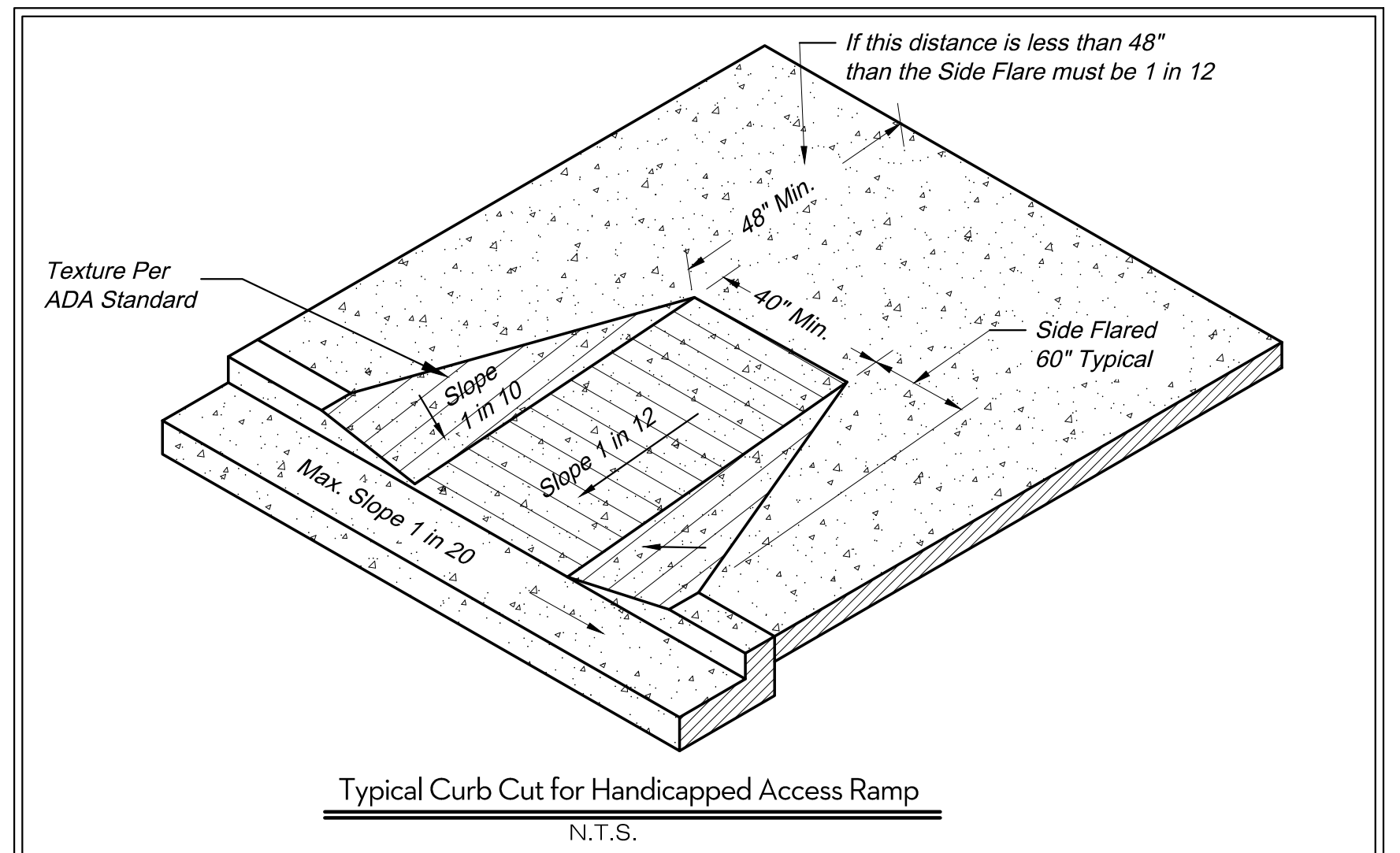
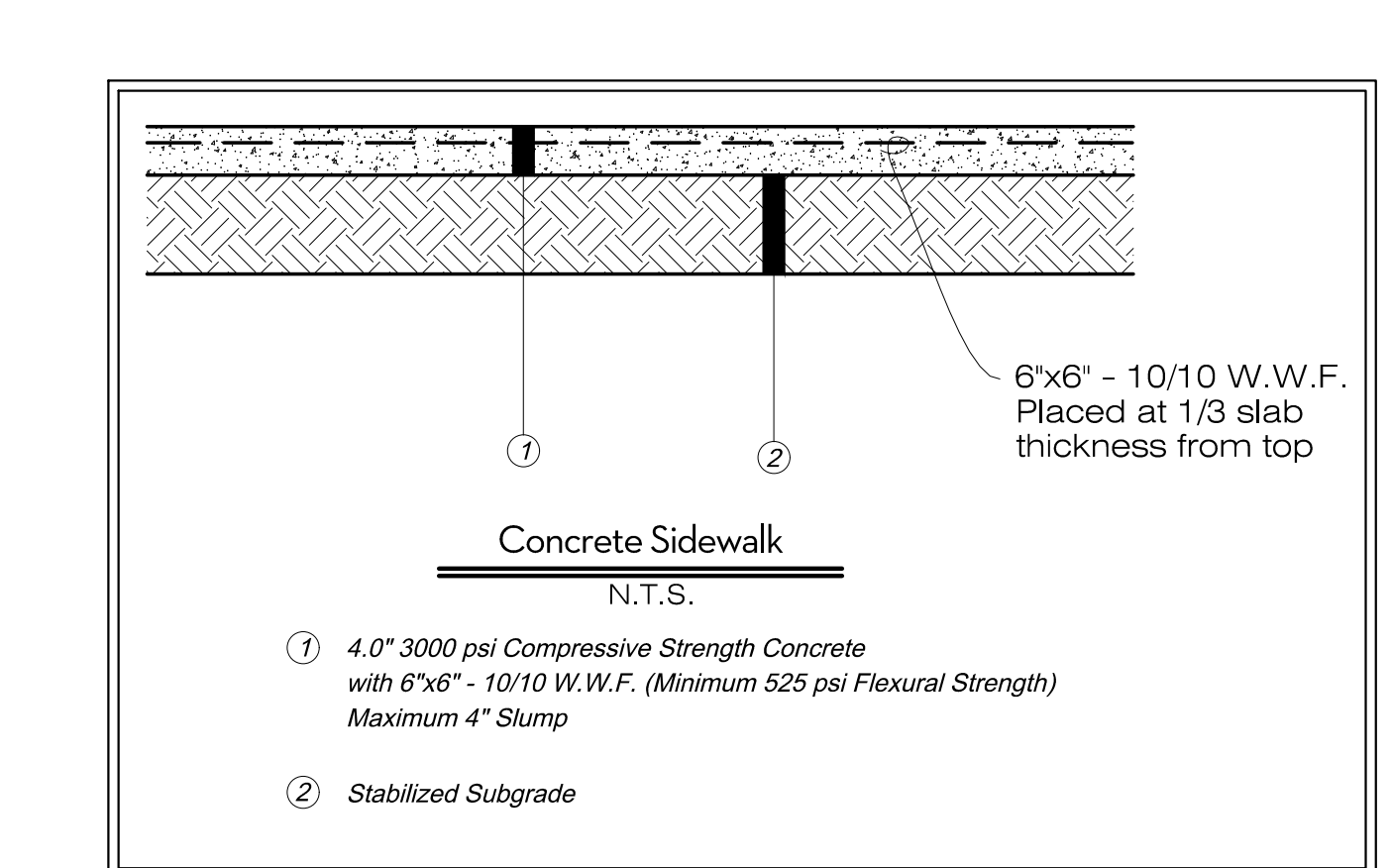
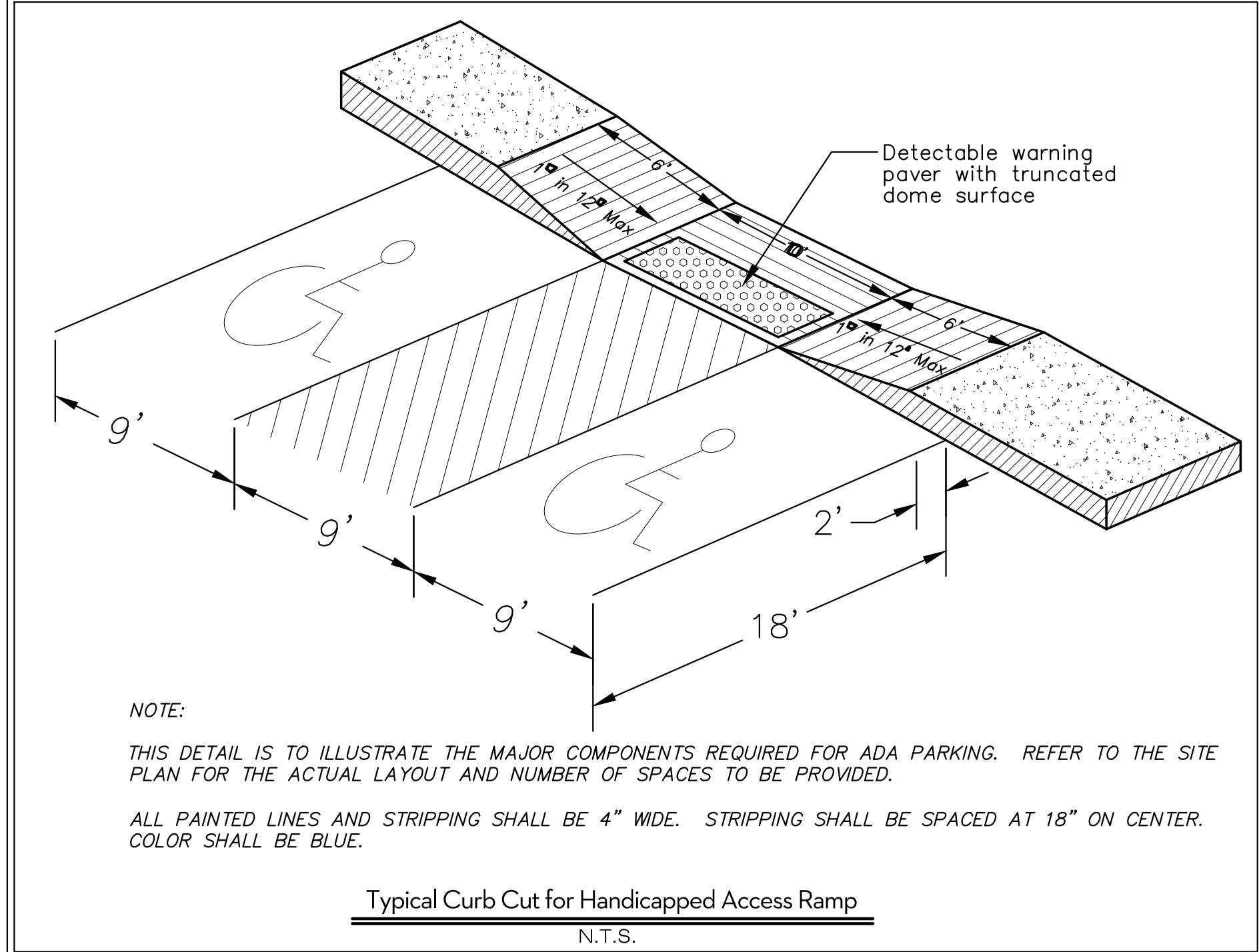
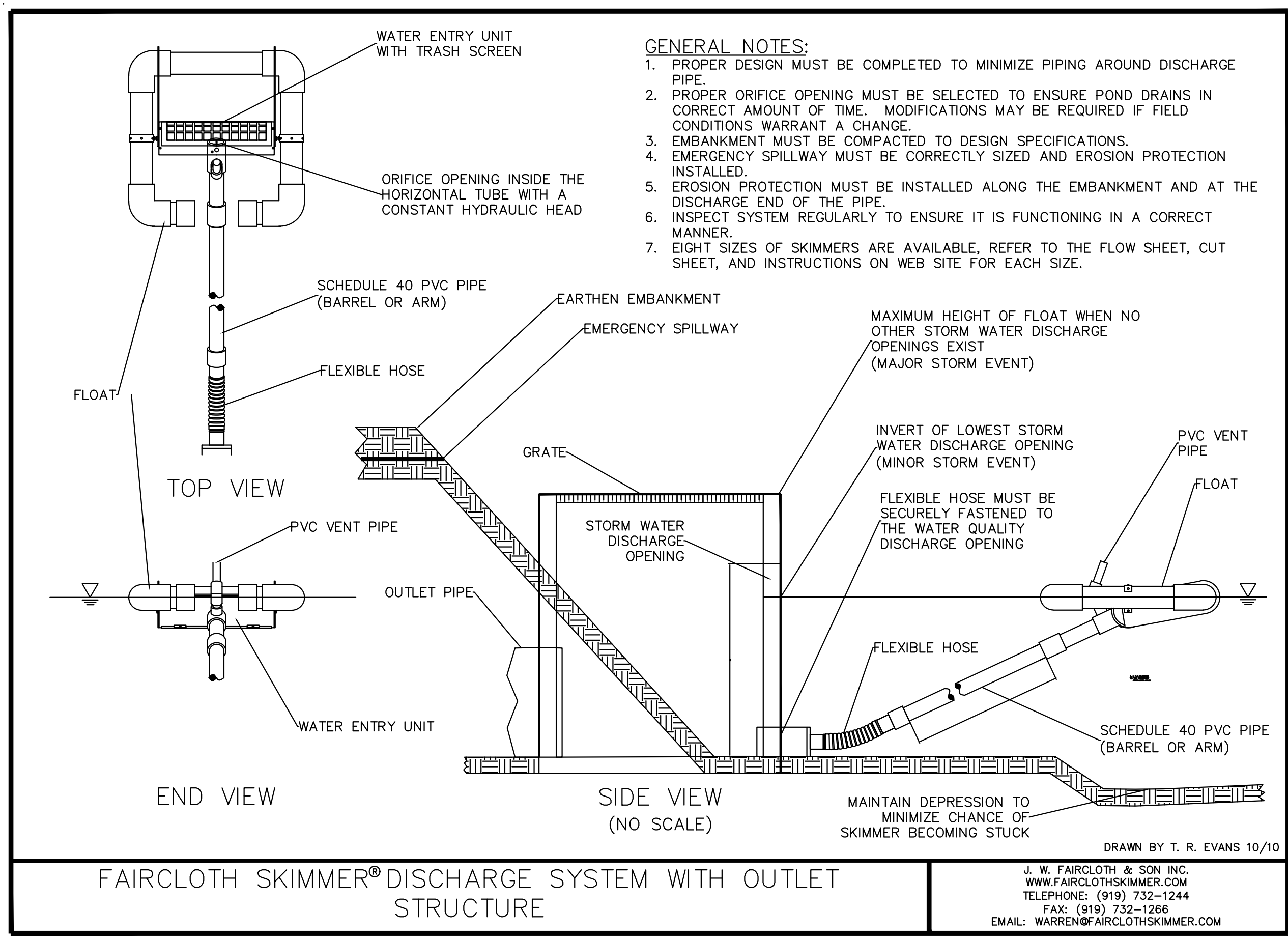
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DETAILS

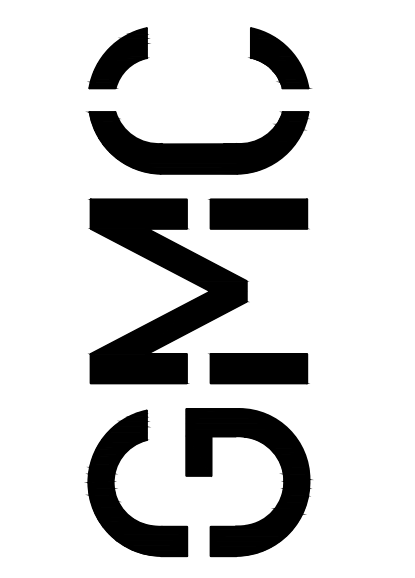
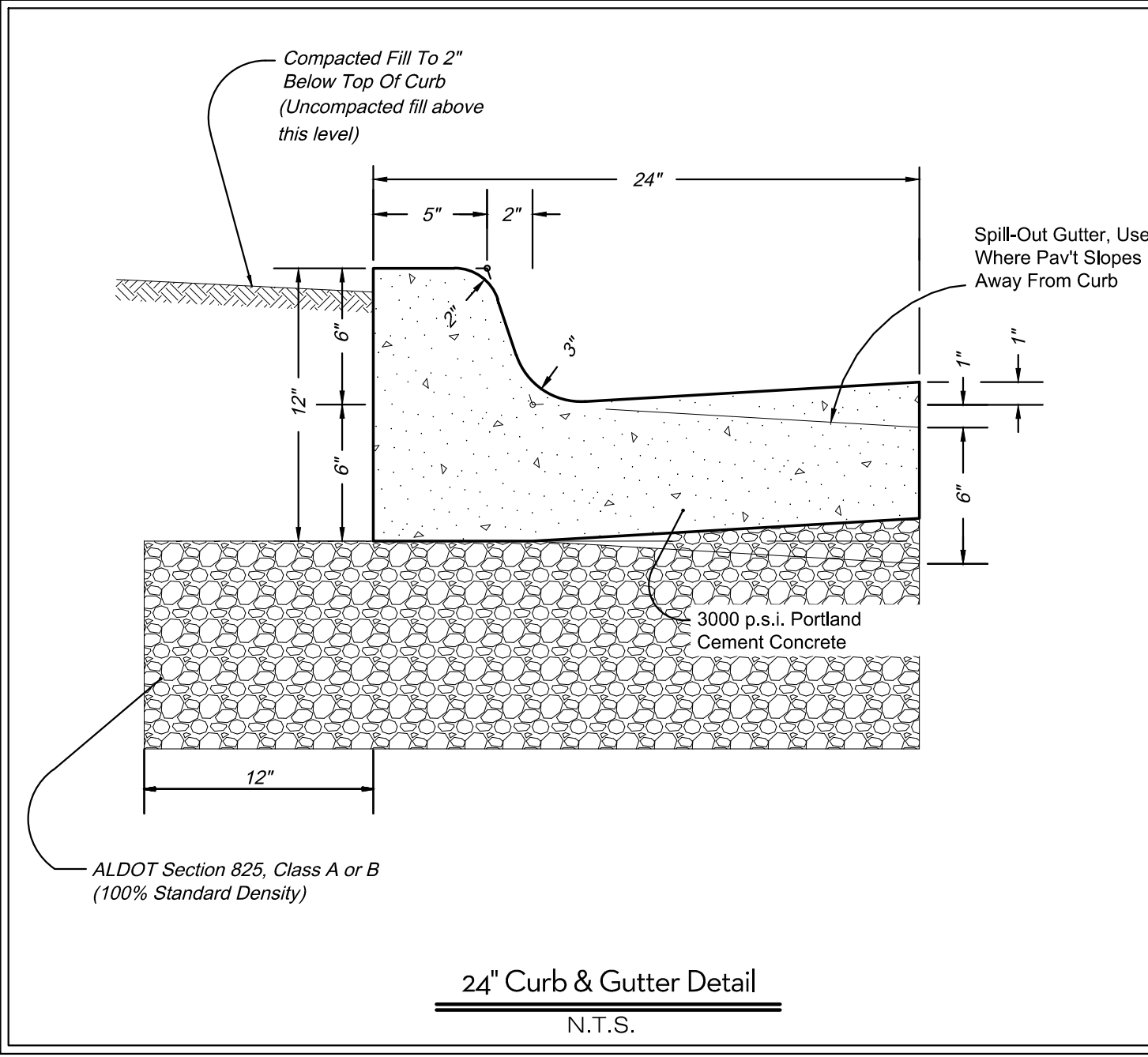
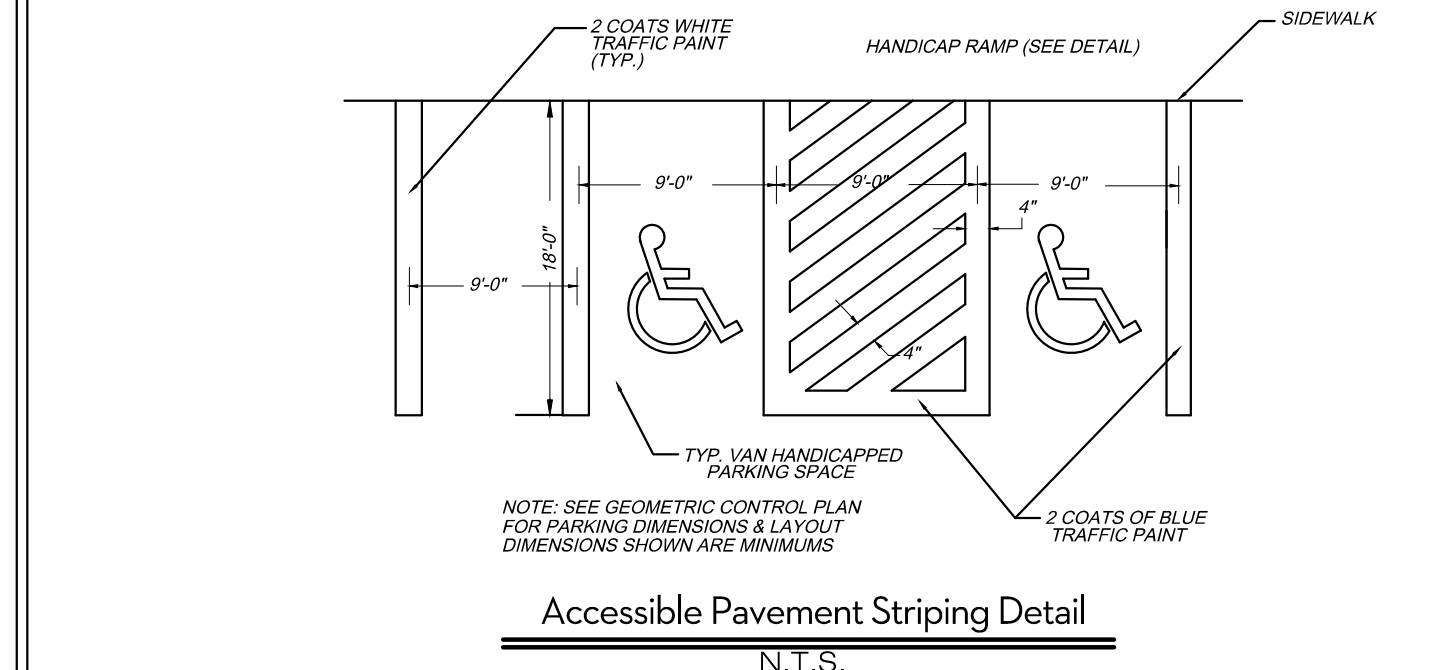
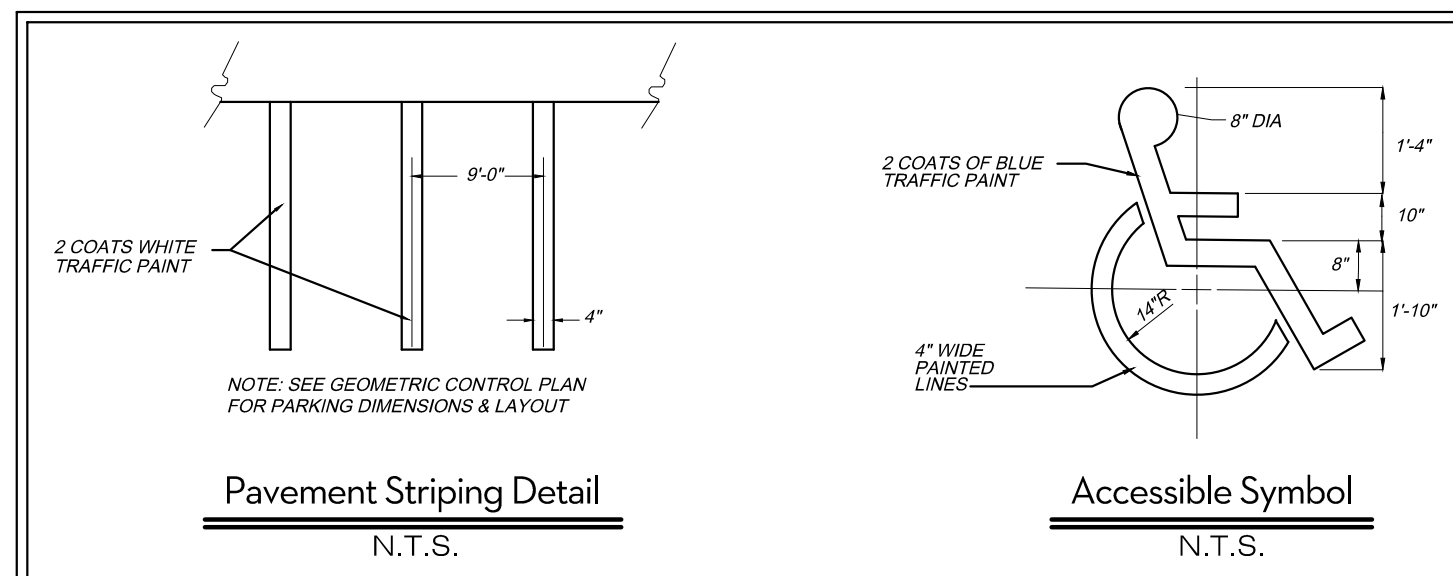
C-904



PAVEMENT JOINTS MAY BE TOOLED OR SAW CUT, SIDEWALK JOINTS MUST BE TOOLED.

Concrete Joint Details
N.T.S.

1. EXPANSION JOINTS IN THE PAVEMENT SHALL BE A MAXIMUM WIDTH OF 30 FEET. CONTRACTION JOINTS SHALL BE EQUALLY SPACED BETWEEN EXPANSION JOINTS.
2. EXPANSION JOINTS IN THE SIDEWALK SHALL BE A MAXIMUM WIDTH OF 24 FEET. CONTRACTION JOINTS SHALL BE EQUALLY SPACED BETWEEN EXPANSION JOINTS.



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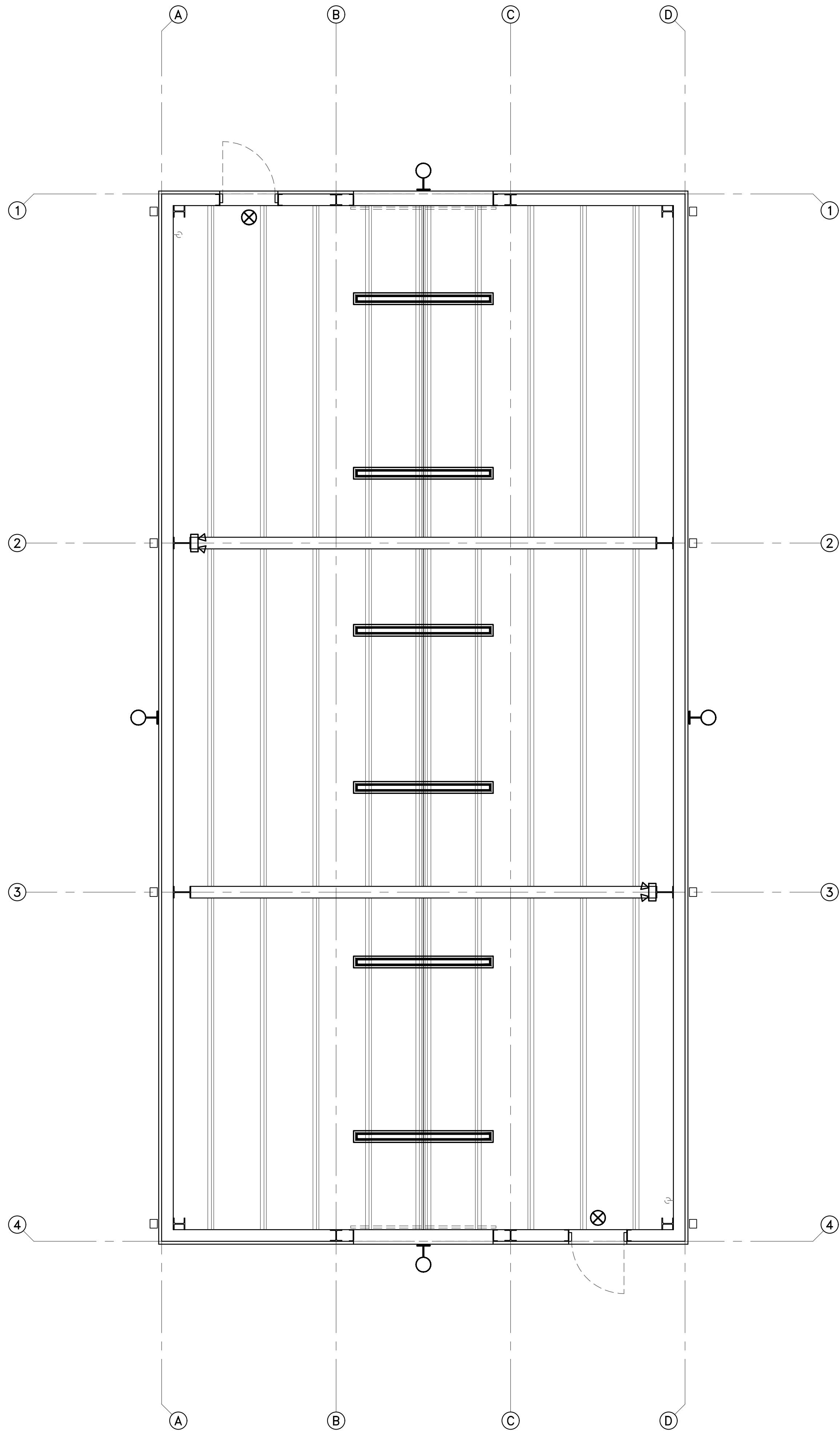
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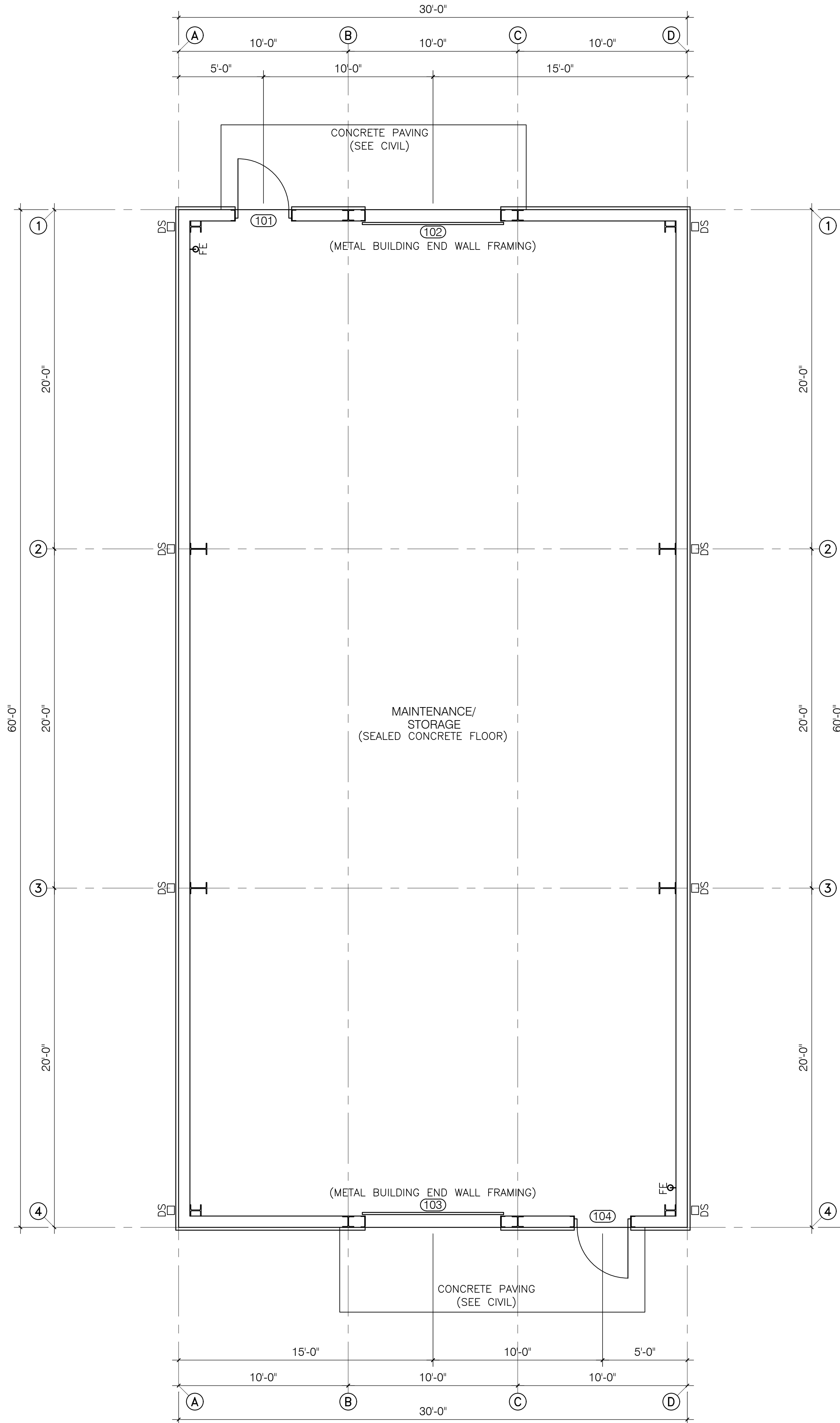
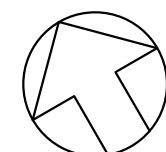
DETAILS
C-905

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CEILING PLAN

SCALE: 1/4" = 1'-0"



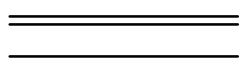


FLOOR PLAN

1,800 SQ.FT.

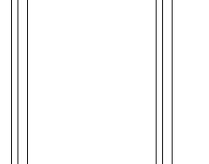




SCALE: 1/4" = 1'-0"



PLAN LEGEND

-  METAL WALL PURLINS WITH PREFINISHED METAL SIDING AND BLANKET INSULATION
-  FIRE EXTINGUISHER (bracket mounted)
-  PREFINISHED METAL DOWNSPOUT WITH CONCRETE SPLASHBLOCK AT GRADE

CEILING PLAN LEGEND

- MATERIAL**
-  EXPOSED STRUCTURE (ROOF PURLINS) WITH BLANKET INSULATION
- LIGHTING**
-  SUSPENDED STRIP LIGHT FIXTURE
 -  WALL MOUNTED LIGHT FIXTURE
 -  EMERGENCY LIGHT FIXTURE
 -  EXIT LIGHT FIXTURE

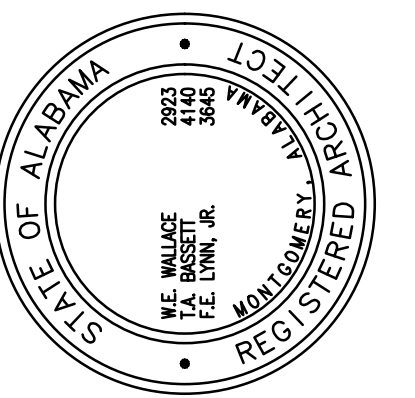
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MAINTENANCE BUILDING
 FLOOR PLAN

A1.01
 sheet of

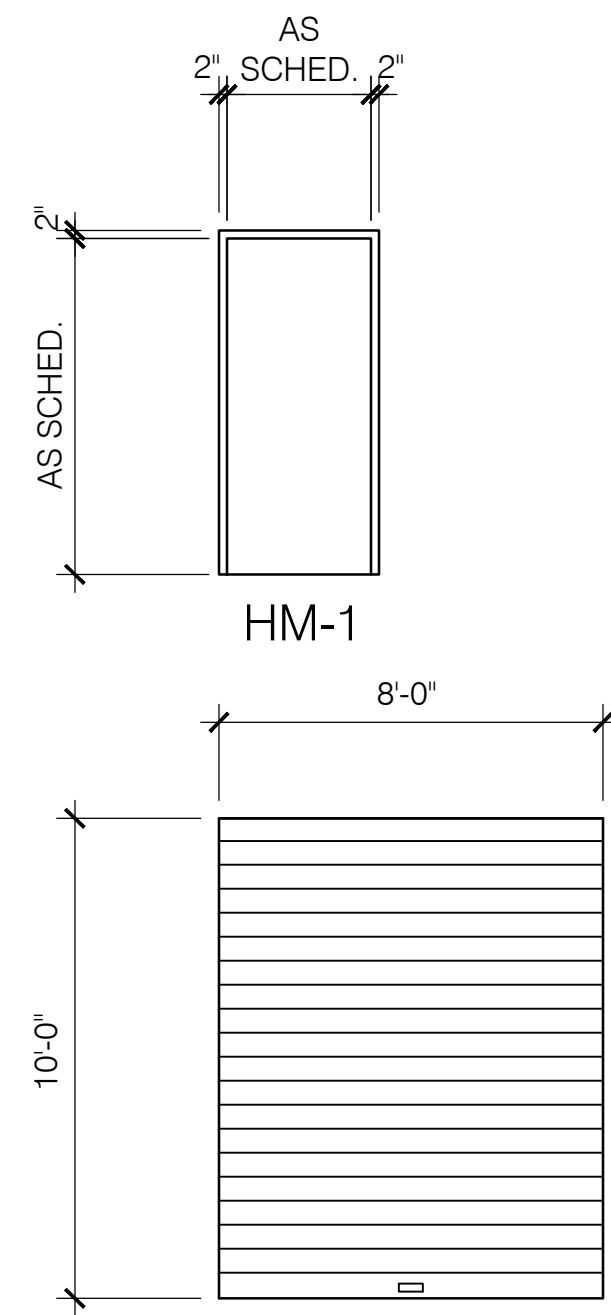
DOOR HARDWARE

SET-1 HINGES, WEATHER SEALS, LEVER, THRESHOLD, DEADBOLT LOCKSET, RAIN HOOD.

SET-2 AS PER DOOR SUPPLIER WITH LOCK.

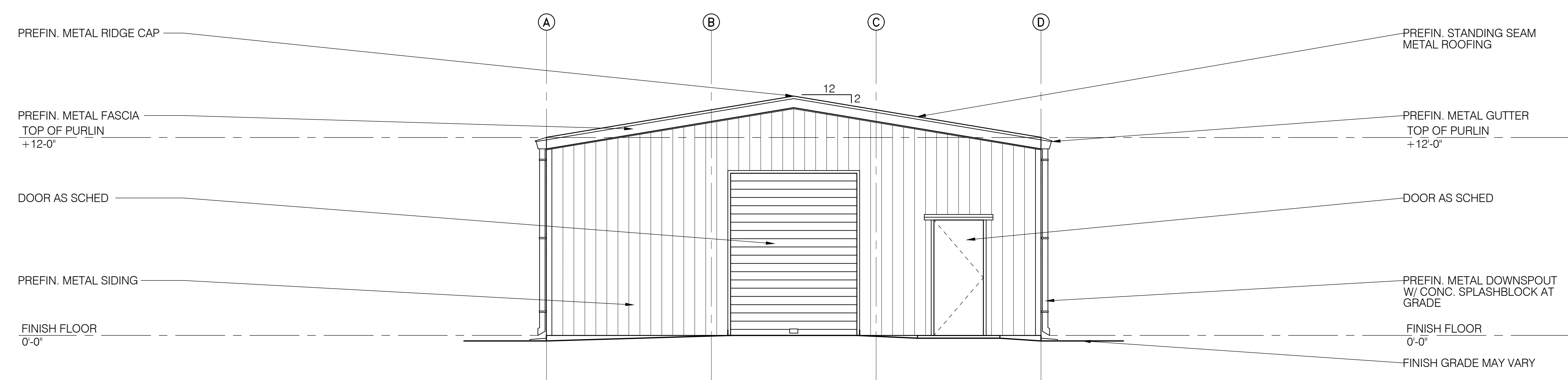
DOOR SCHEDULE

DOOR NO.	DOOR TYPE	SIZE			FRAME TYPE	HDWR. SET NO.	DETAILS			REMARKS
		WIDTH	HEIGHT	THICK.			HEAD	JAMB	SILL	
101	HM - 1	3'-0"	7'-0"	1 3/4"	HM - 1	set no.-1	3/A3.01	2/A3.01	1/A3.01	RAIN HOOD
102	COIL - 1	8'-0"	10'-0"	-----	COIL - 1	set no.-2	4/A3.01	5/A3.01	6/A3.01	COILING DOOR
103	COIL - 1	8'-0"	10'-0"	-----	COIL - 1	set no.-2	4/A3.01	5/A3.01	6/A3.01	COILING DOOR
104	HM - 1	3'-0"	7'-0"	1 3/4"	HM - 1	set no.-1	3/A3.01	2/A3.01	1/A3.01	RAIN HOOD



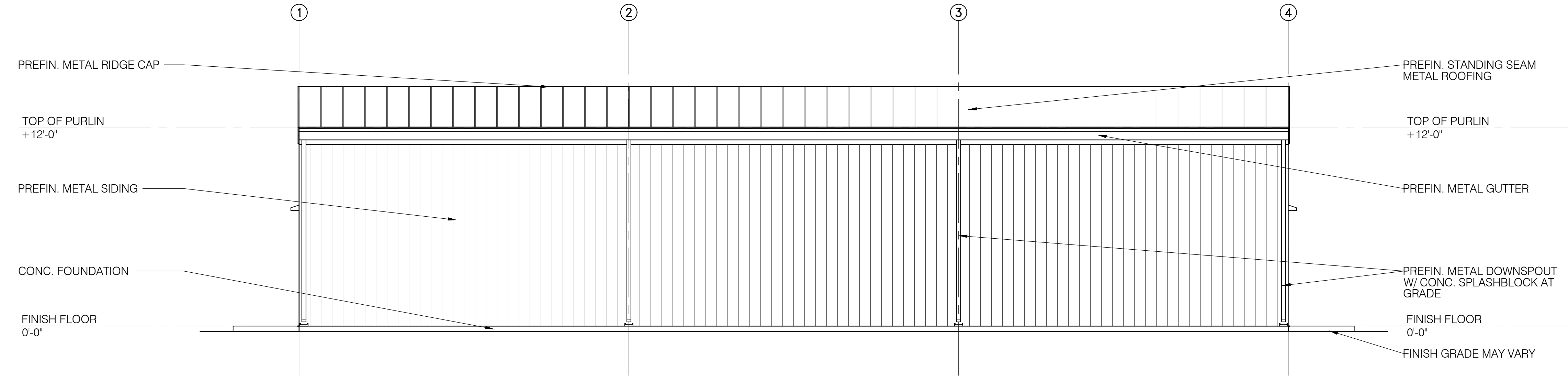
DOOR/FRAME TYPES

SCALE : 1/4" = 1'-0"



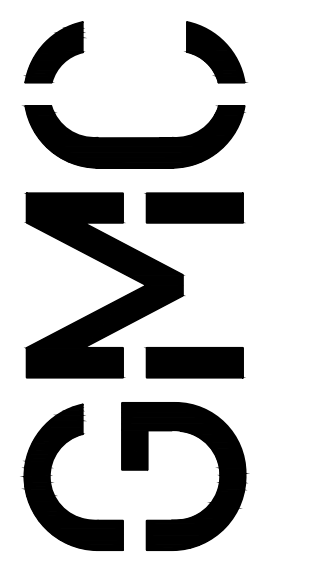
END ELEVATION

SCALE : 1/4" = 1'-0"



SIDE ELEVATION

SCALE : 1/4" = 1'-0"

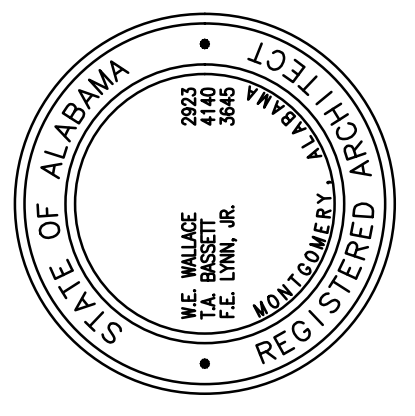


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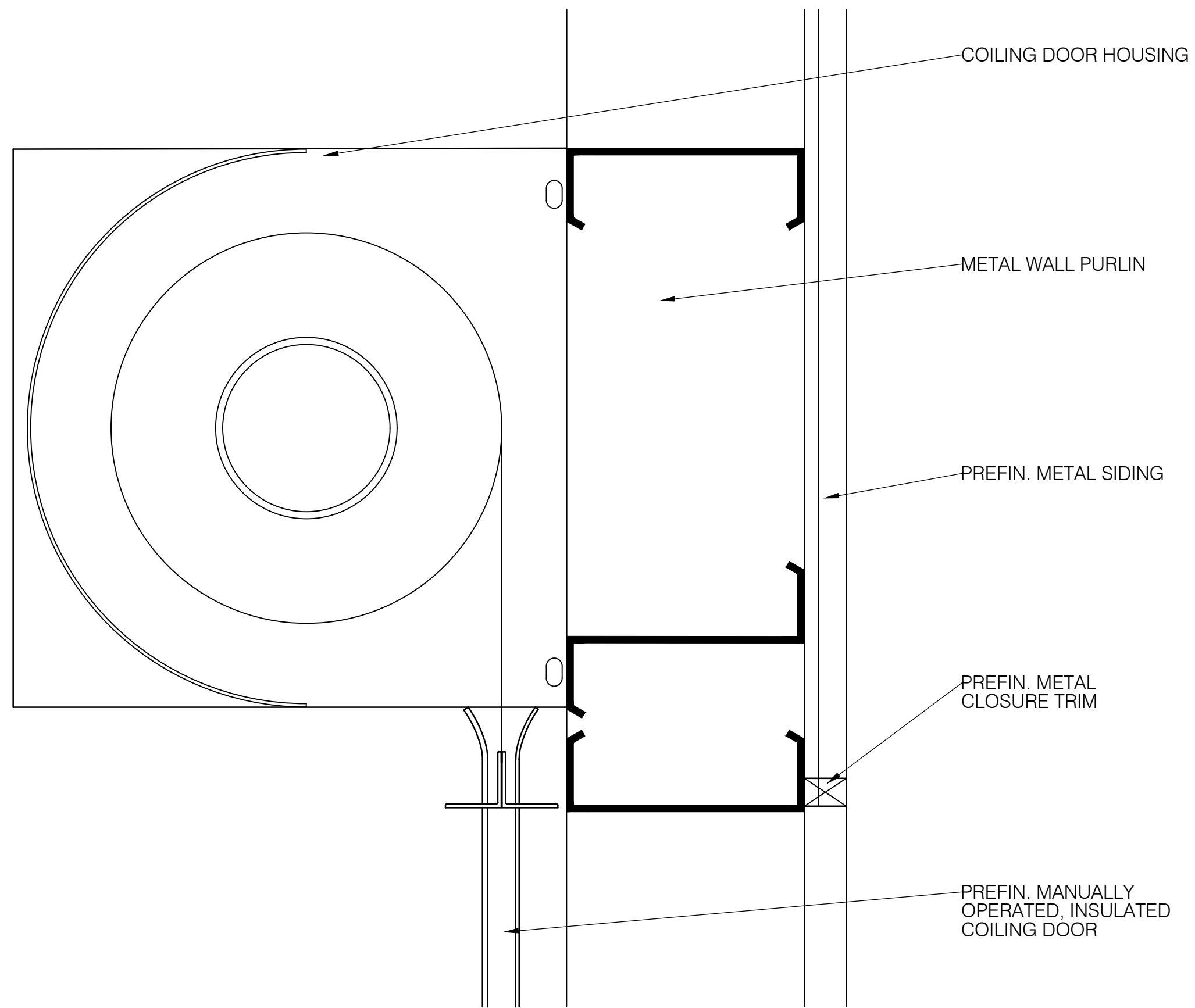
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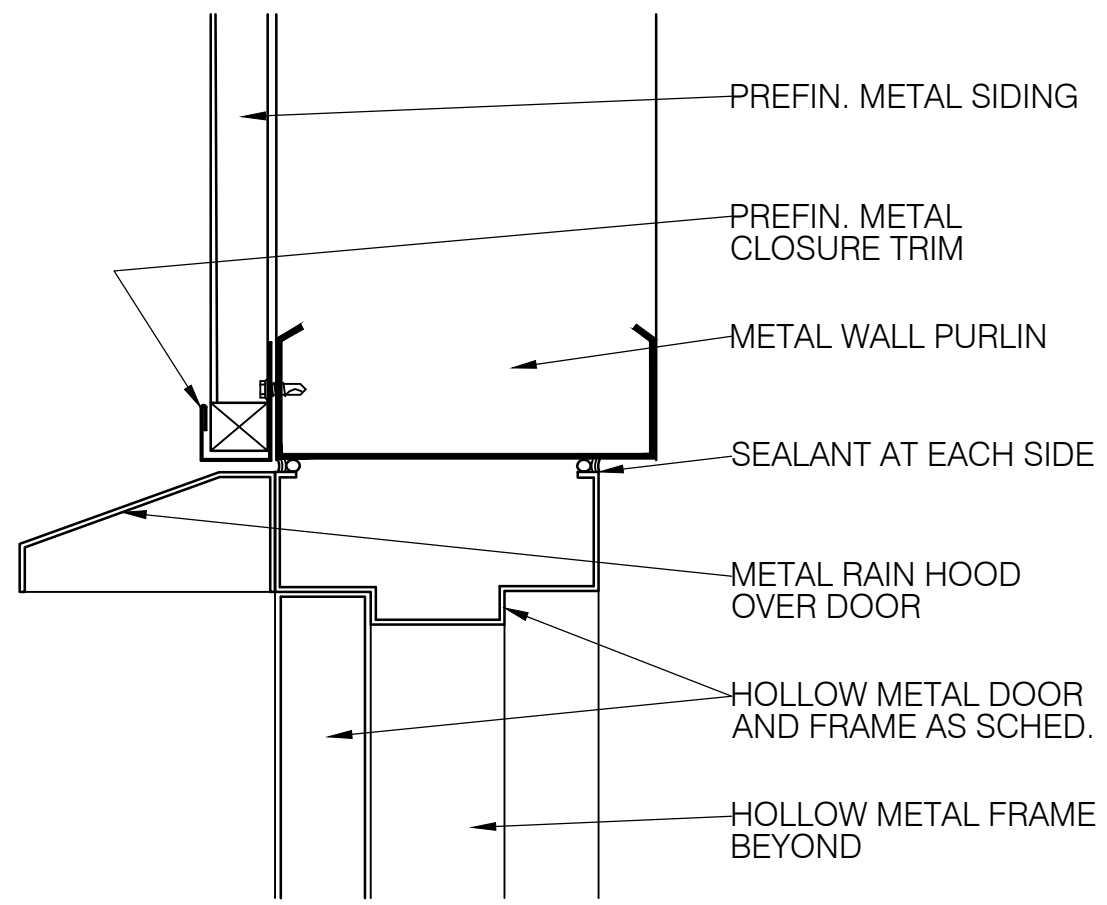


MAINTENANCE BUILDING
 END / SIDE ELEVATIONS
 AND DOOR SCHEDULE

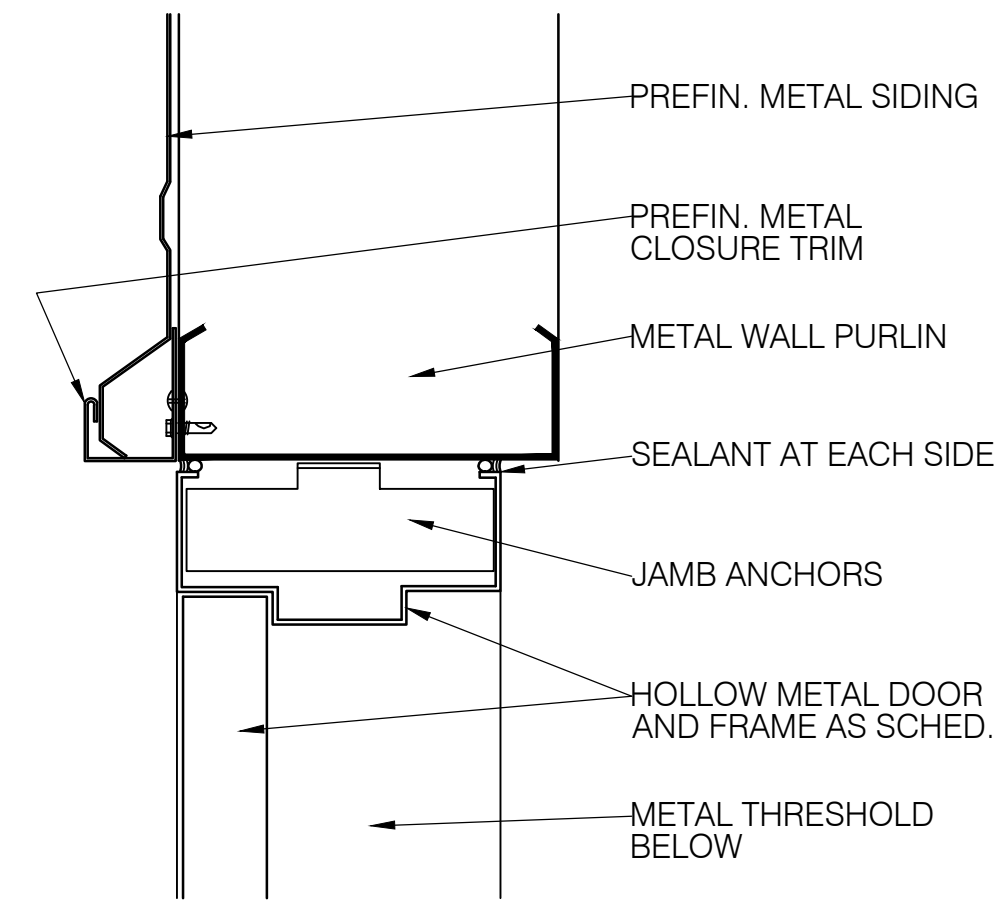
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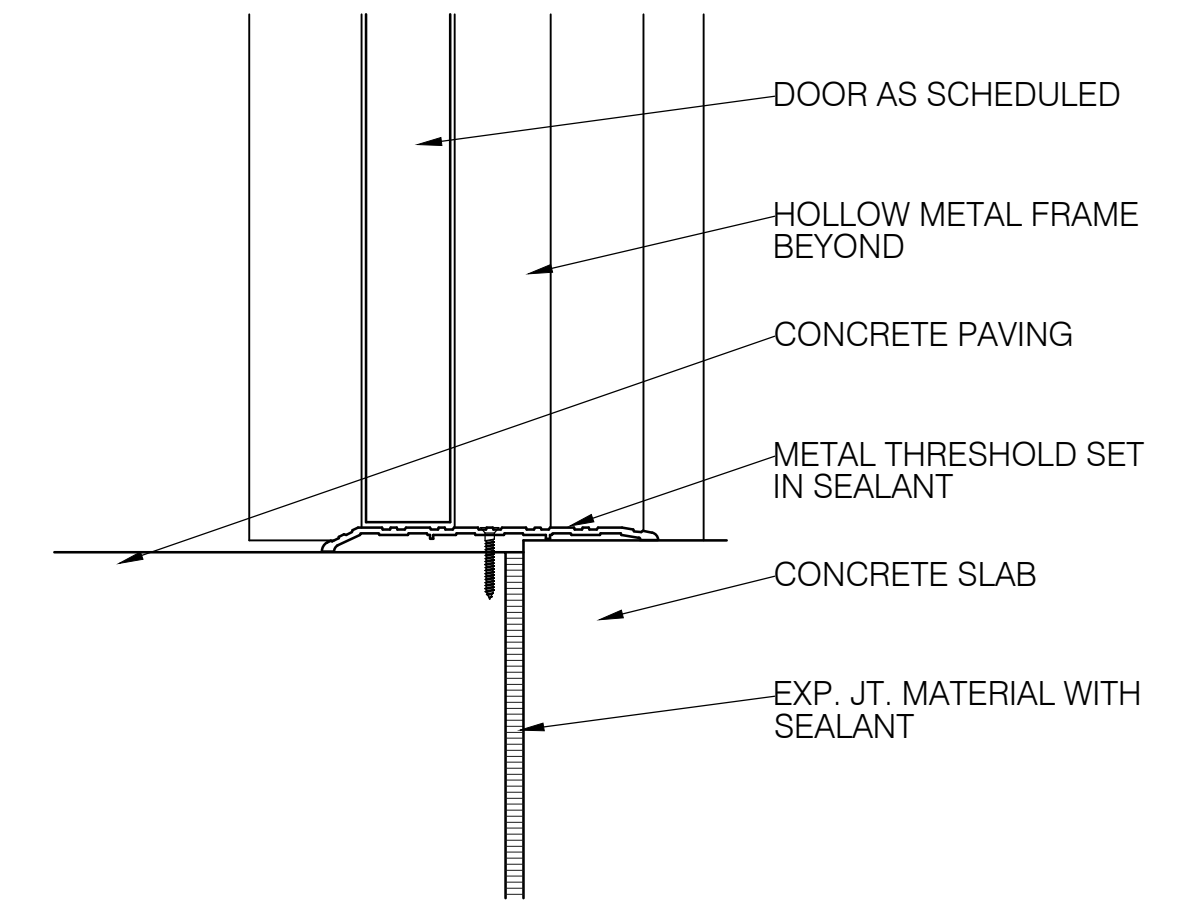
4 DOOR DETAIL
A3.01 SCALE: 3" = 1'-0" HEAD



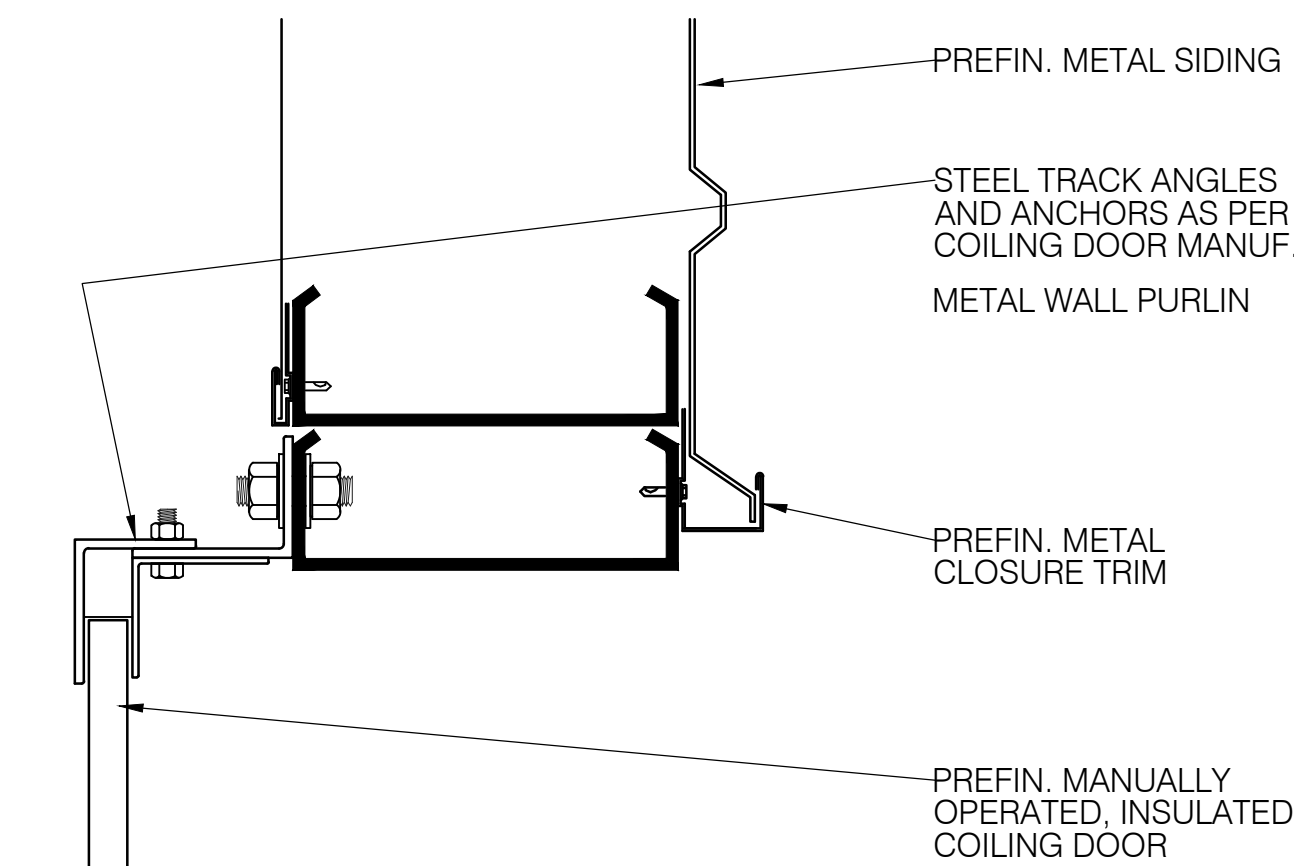
3 DOOR DETAIL
A3.01 SCALE: 3" = 1'-0" HEAD



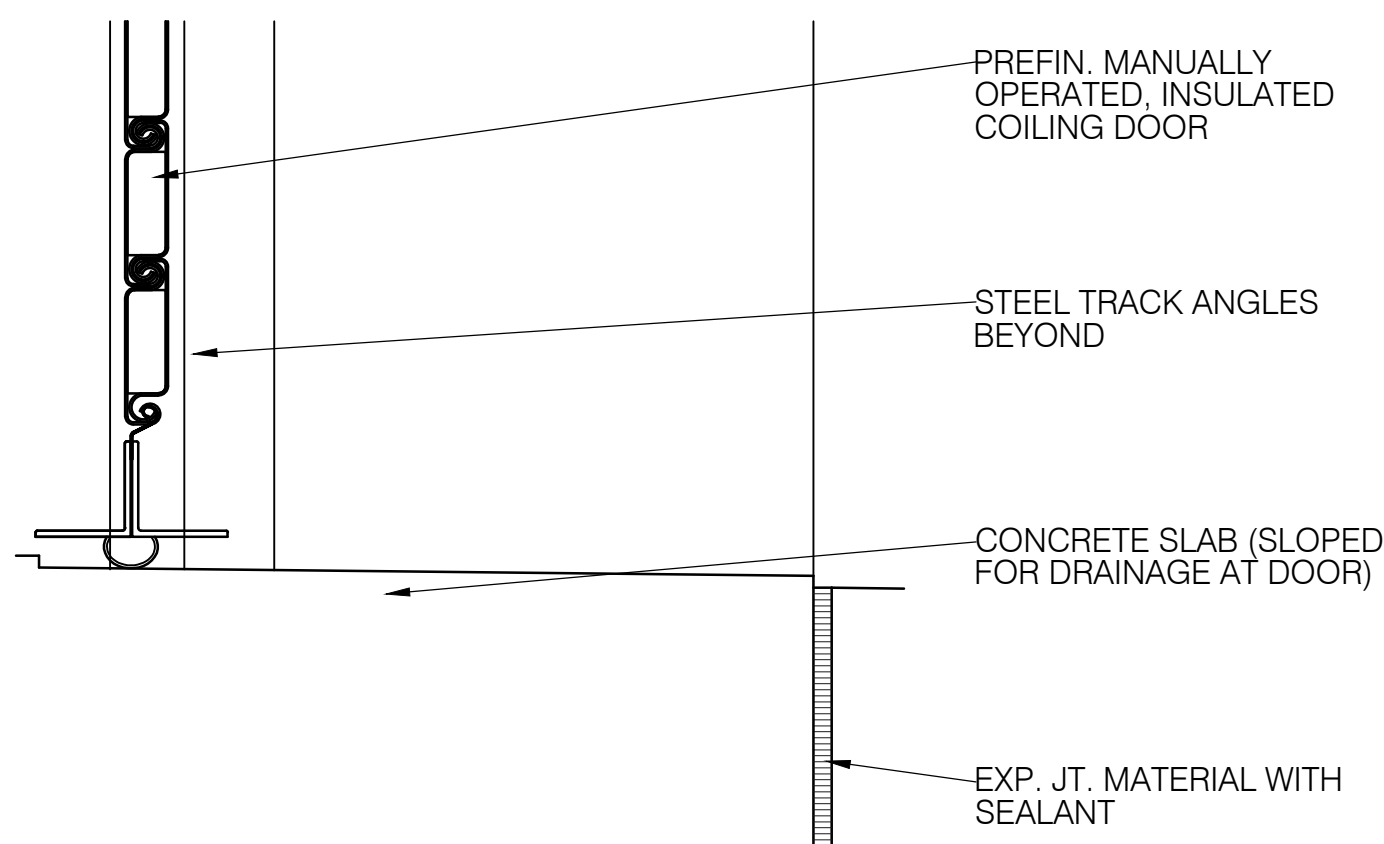
2 DOOR DETAIL
A3.01 SCALE: 3" = 1'-0" JAMB



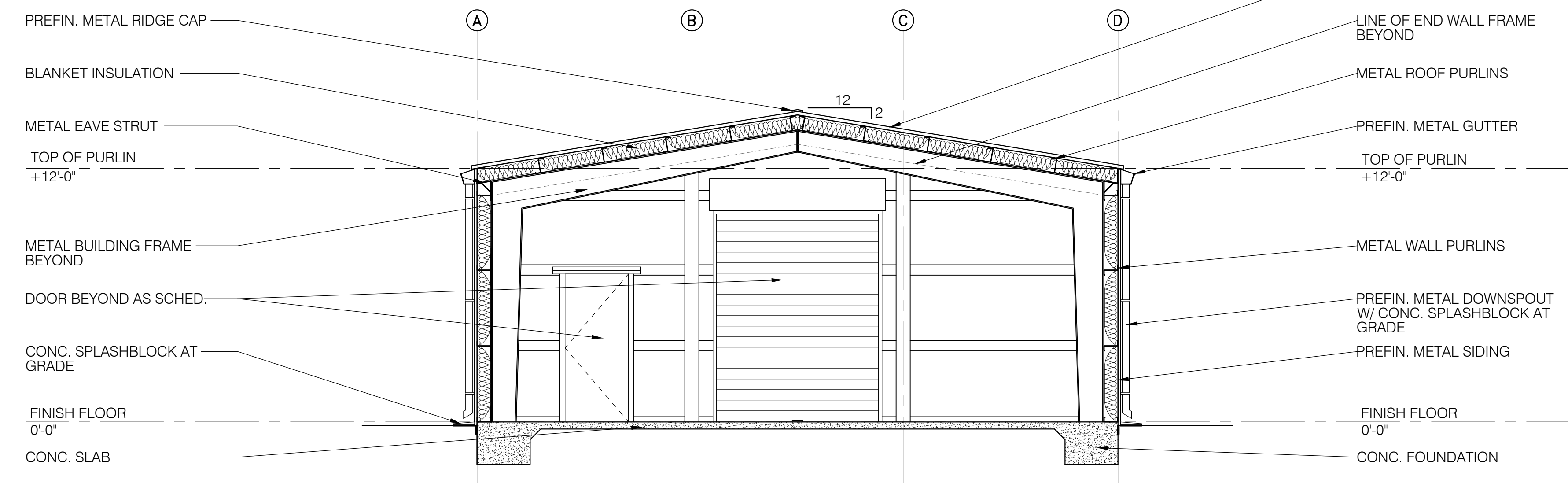
1 DOOR DETAIL
A3.01 SCALE: 3" = 1'-0" SILL



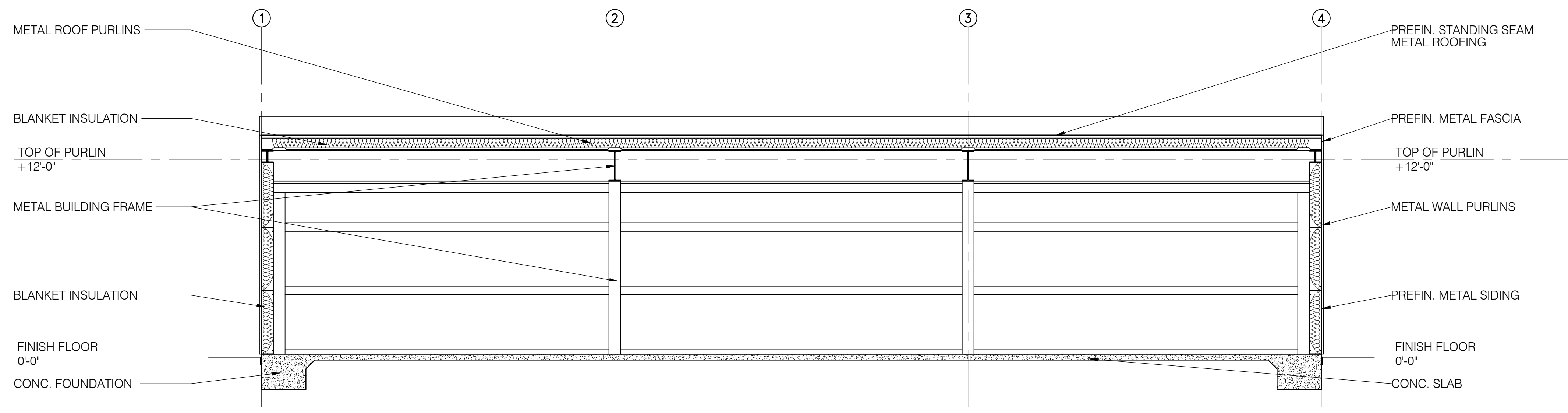
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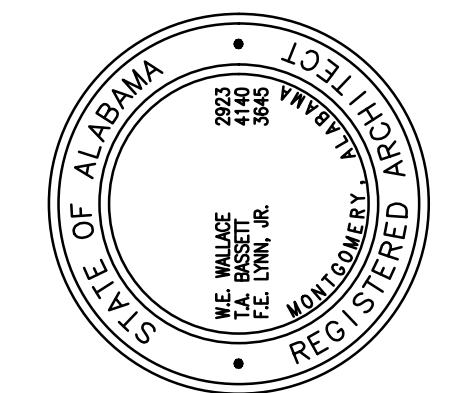
6 DOOR DETAIL
A3.01 SCALE: 3" = 1'-0" SILL

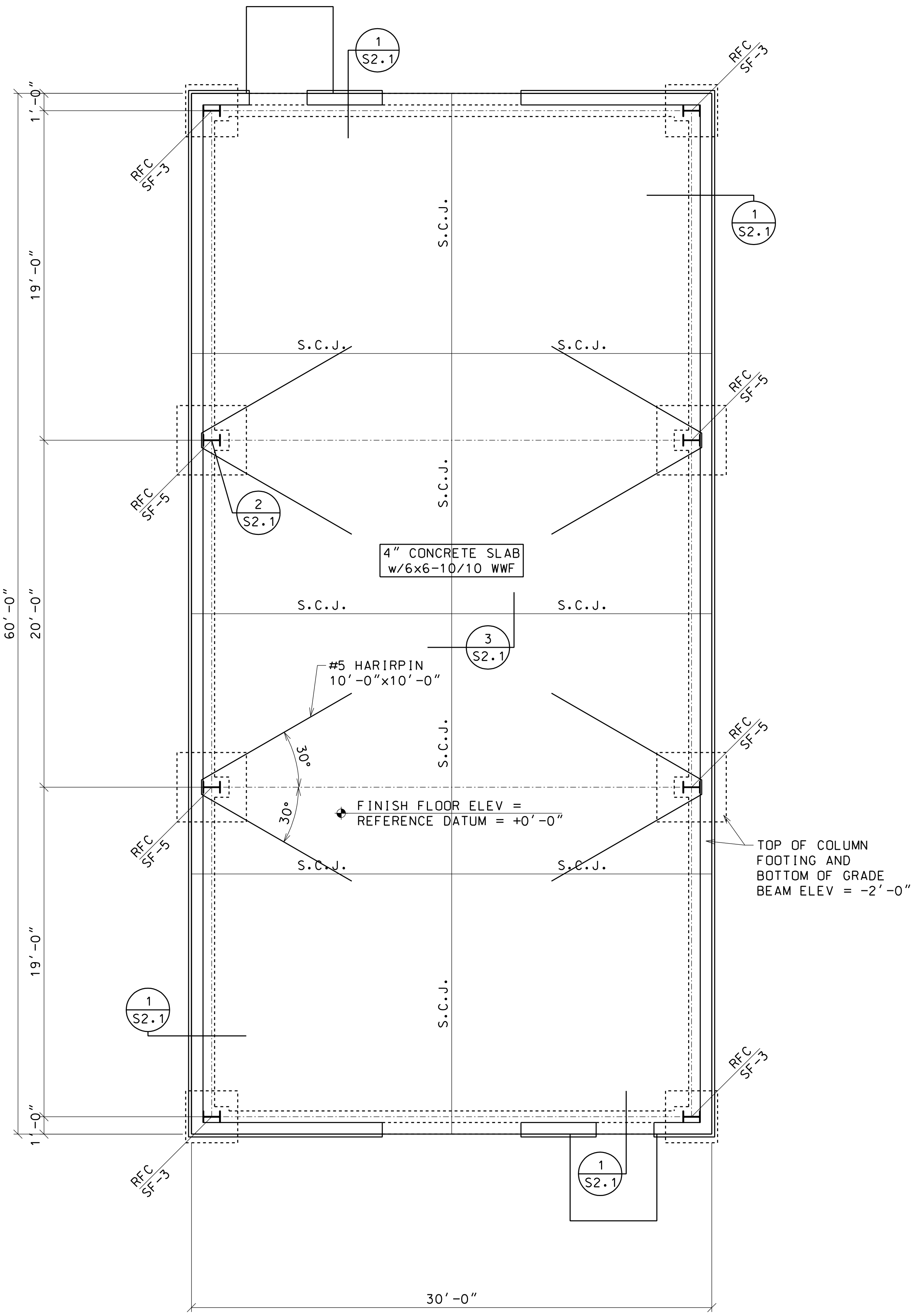


CROSS SECTION
SCALE: 1/4" = 1'-0"



LONGITUDINAL SECTION
SCALE: 1/4" = 1'-0"



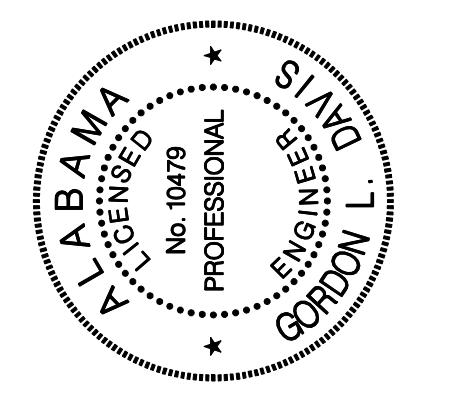


FOUNDATION PLAN — SCALE: 1/4" = 1'-0"

GORDON L. DAVIS
 STRUCTURAL ENGINEERING CONSULTANT
 P.O. BOX 241371
 MONTGOMERY, ALABAMA 36124-1371
 (334)213-3070 FAX (334)213-4020

FOUNDATION PLAN
 AND
 ROOF FRAMING PLAN

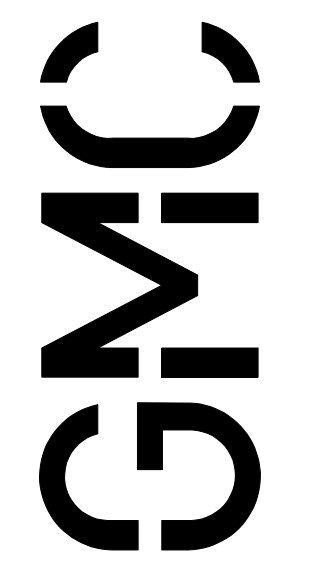
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 sheet 1 of 2

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STRUCTURAL NOTES

APPLICABLE CODES AND SPECIFICATIONS

INTERNATIONAL BUILDING CODE - 2021
 AMERICAN CONCRETE INSTITUTE
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION
 AMERICAN IRON AND STEEL INSTITUTE
 AMERICAN SOCIETY FOR TESTING AND MATERIALS
 AMERICAN WELDING SOCIETY
 ASCE/SEI 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

DESIGN LOADS

A. ROOF LIVE LOAD (ON HORIZONTAL PROJECTION)
 FOR MEMBERS SUPPORTING 0-200 SQ. FT. 20 psf
 FOR MEMBERS SUPPORTING 200-600 SQ. FT. 20 psf to 12 psf
 FOR MEMBERS SUPPORTING MORE THAN 600 SQ. FT. 12 psf

B. GROUND SNOW LOAD (Pg) 0 psf

SNOW EXPOSURE FACTOR (Ce) 0.90
 SNOW LOAD IMPORTANCE FACTOR (I) 1.10
 THERMAL FACTOR (Ct) 1.00

C. WIND LOAD
 ULTIMATE DESIGN WIND SPEED (3-SECOND GUST) (Vult) 150 mph
 NOMINAL DESIGN WIND SPEED (3-SECOND GUST) (Vnom) 116 mph
 WIND IMPORTANCE FACTOR (I) 1.00
 WIND EXPOSURE C
 INTERNAL PRESSURE COEFFICIENT +0.18, -0.18
 COMPONENTS AND CLADDING SEE DIAGRAM

FOUNDATIONS

FOUNDATIONS ARE DESIGNED FOR A MAXIMUM SOIL BEARING PRESSURE OF 2000 psf FOR SQUARE COLUMN FOOTINGS AND 2000 psf FOR CONTINUOUS WALL FOOTINGS. FOOTINGS SHALL BE PLACED ON A FIRM STRATA CAPABLE OF SAFELY SUSTAINING THESE LOADS.

FILL UNDER FOOTINGS SHALL BE COMPACTED TO 98% STANDARD PROCTOR DENSITY (ASTM D-698). SEE SPECIFICATIONS FOR COMPACTION AND TESTING REQUIREMENTS.

FOOTING ELEVATIONS SHOWN ON PLAN ARE MINIMUM DEPTH.

UNUSUAL SOILS CONDITIONS MAY REQUIRE CHANGE IN FOOTING ELEVATION. CONTACT ARCHITECT AND/OR ENGINEER FOR APPROVAL TO CHANGE ELEVATION.

SLAB ON GRADE

UNLESS OTHERWISE NOTED, ALL SLABS ON GRADE SHALL BE REINFORCED WITH ONE LAYER 6x6-10/10 W.W.F. PLACED AT 1/3 SLAB THICKNESS FROM TOP.

FILL UNDER SLAB SHALL BE COMPACTED TO 98% STANDARD PROCTOR DENSITY (ASTM D-698). SEE SPECIFICATIONS FOR COMPACTION AND TESTING REQUIREMENTS.

CONCRETE (CAST-IN-PLACE)

MINIMUM COMPRESSIVE STRENGTH OF CAST-IN-PLACE CONCRETE AT 28 DAYS SHALL BE:

FOUNDATIONS 3000 psf
 SLAB ON GRADE 3000 psf

SEE SPECIFICATIONS FOR TESTING REQUIREMENTS.

REINFORCING STEEL

REINFORCING BARS SHALL BE DEFORMED BILLET STEEL BARS CONFORMING TO ASTM A615 SPECIFICATIONS. WELDED STEEL WIRE FABRIC SHALL BE PLAIN STEEL WIRE CONFORMING TO ASTM A185 SPECIFICATIONS.

MINIMUM YIELD STRENGTHS (fy) SHALL BE AS FOLLOWS:

REINFORCING BARS 60,000 psi
 BEAM STIRRUPS, AND/OR COLUMN TIES 40,000 psi
 WELDED WIRE FABRIC 65,000 psi

UNLESS OTHERWISE DETAILED, PROTECTIVE CONCRETE COVER FOR REINFORCING STEEL SHALL NOT BE LESS THAN:

A. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3 in.
 B. EXPOSED TO EARTH OR WEATHER
 #6 BARS AND LARGER 2 in.
 #5 BARS AND SMALLER 1-1/2 in.

LAP ALL CONTINUOUS REINFORCEMENT 24 DIAMETERS MINIMUM, UNLESS OTHERWISE NOTED. AT CORNERS AND INTERSECTIONS, PROVIDE HOOKS OR CORNER BARS.

DOWEL ALL FOOTINGS, GRADE BEAMS AND WALLS, WHERE THEY ABUT, WITH SAME STEEL AS DETAILED HORIZONTAL REINFORCEMENT, 24 DIAMETERS MINIMUM LAP.

STRUCTURAL STEEL

MINIMUM MATERIAL STRENGTHS SHALL BE AS FOLLOWS:

STRUCTURAL STEEL 50 ksi yield point (ASTM A992)
 COLD FORMED STUDS, GIRTS, PURLINS 33 ksi yield point
 ANCHOR RODS ASTM F1554-GRADE 36
 BOLTED STRUCTURAL JOINTS A-325X
 WELD ELECTRODES E70XX

PREFABRICATED METAL BUILDINGS

ALL PREFABRICATED METAL BUILDING ELEMENTS SHALL BE DESIGNED, FABRICATED AND ERRECTED IN STRICT ACCORDANCE WITH APPLICABLE CODES AND SPECIFICATIONS TO SUPPORT ALL LIVE LOADS NOTED ABOVE, DEAD LOADS AND CONCENTRATED LOADS. REQUIRED LATERAL BRACING (TEMPORARY AND PERMANENT) SHALL BE DESIGNED AND NOTED ON ERECTION DRAWINGS BY THE MANUFACTURER.

VERIFY ALL DIMENSIONS AND DETAILS SHOWN. NOTIFY ARCHITECT AND/OR ENGINEER OF ANY REQUIRED MODIFICATIONS.

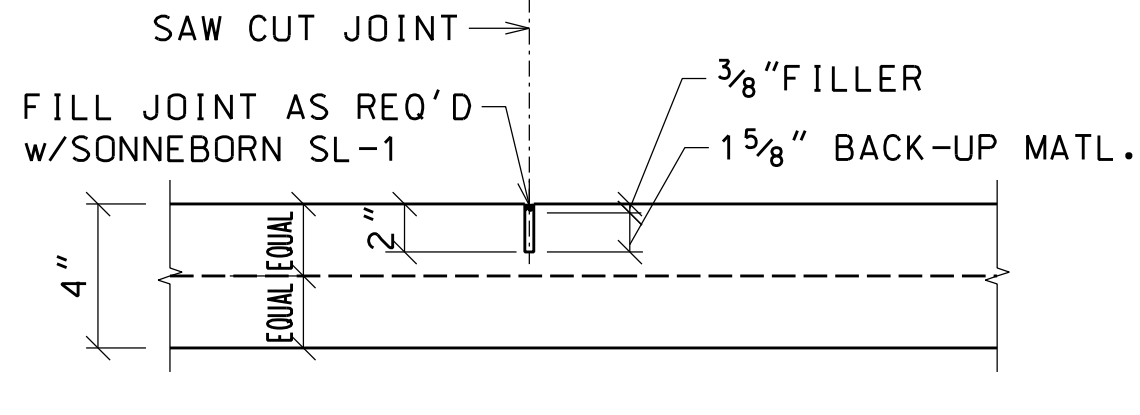
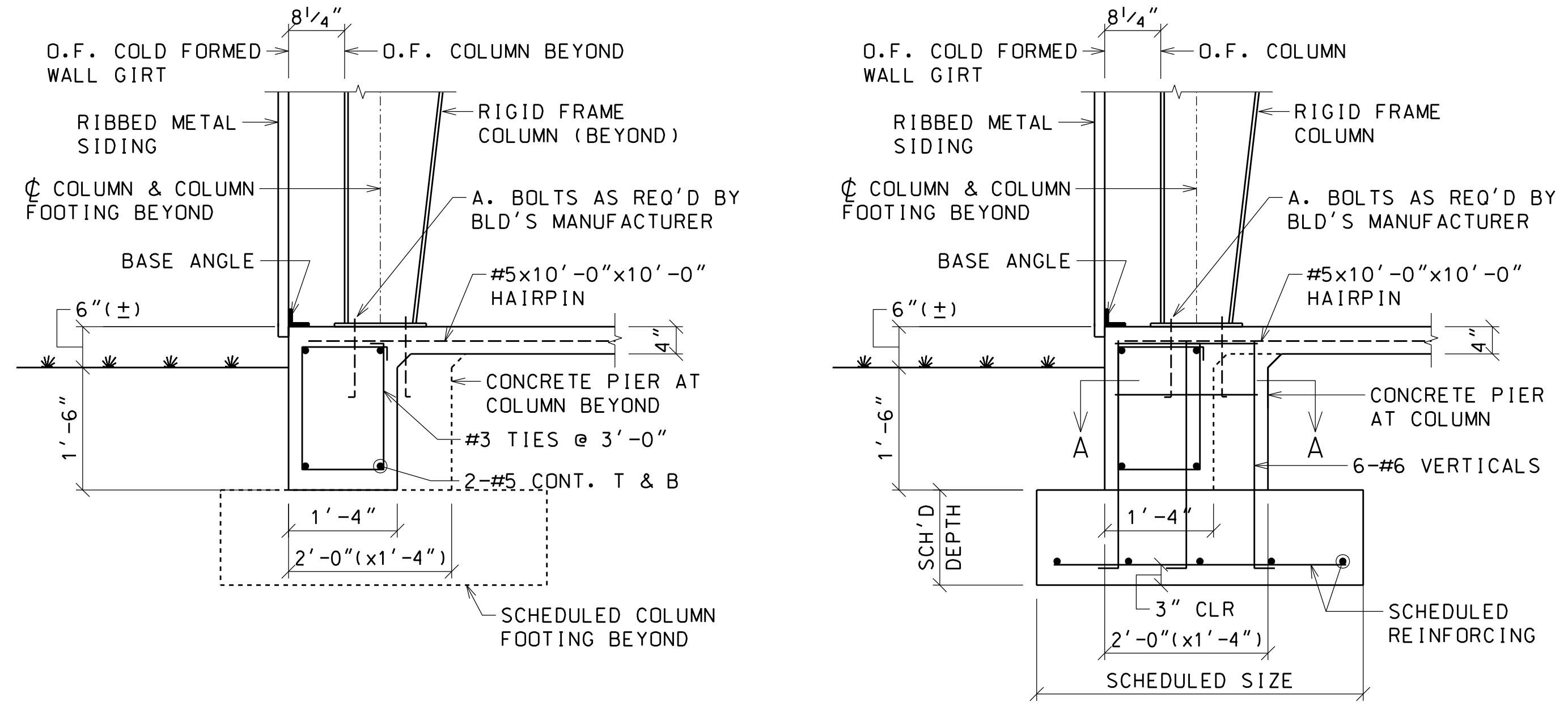
SUBMIT DESIGN DRAWINGS BEARING THE ENGINEER'S REGISTRATION SEAL OF THE DESIGN ENGINEER.

SHOP DRAWINGS

SUBMIT FOR REVIEW TO THE ARCHITECT AND/OR ENGINEER, IN ACCORDANCE WITH THE SPECIFICATIONS, AS FOLLOWS:

A. PLACING PLANS AND DETAILS OF CONCRETE REINFORCEMENT, IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL (ACI 315).
 B. LAYOUT AND DETAILS OF ALL STRUCTURAL STEEL AND MISCELLANEOUS STEEL.

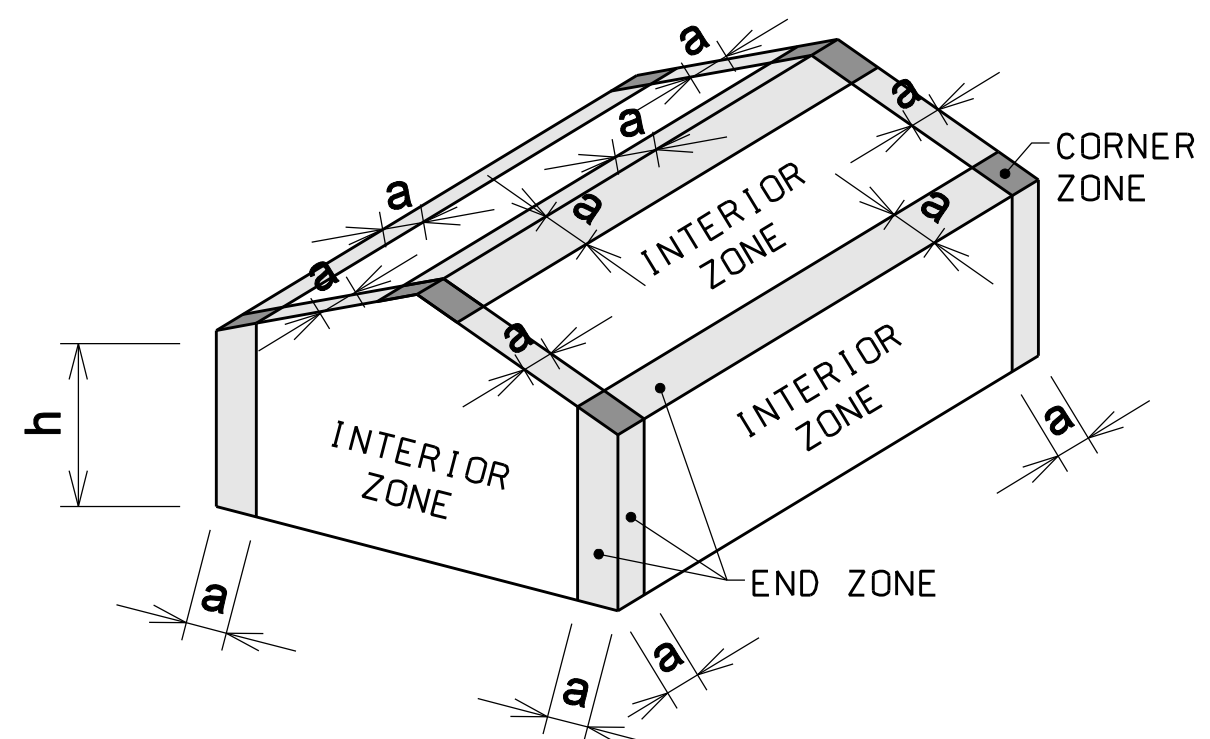
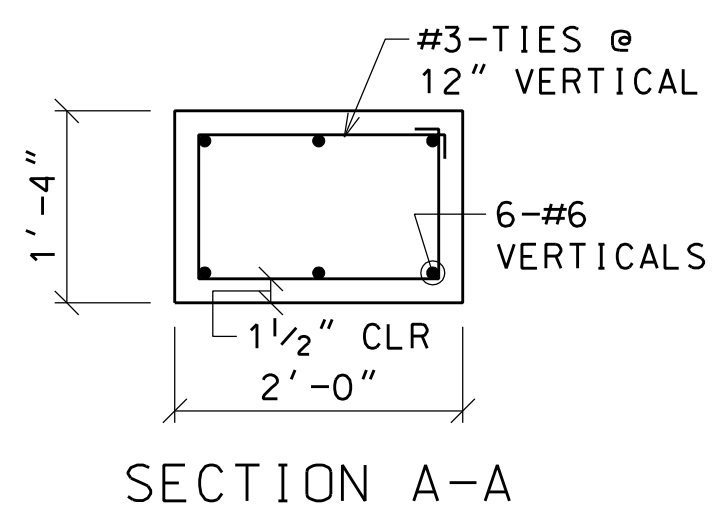
SUBMITTAL SHALL BEAR THE APPROVAL STAMP OF THE CONTRACTOR, VERIFYING THAT THE DIMENSIONS AND DETAILS COMPLY WITH THE CONTRACT DRAWINGS.



SPREAD FOOTING SCHEDULE

MARK	SIZE	REINF. EA. WAY
SF-1	2'-0" x 2'-0" x 1'-0"	3-#4
SF-2	2'-6" x 2'-6" x 1'-0"	3-#5
SF-3	3'-0" x 3'-0" x 1'-0"	4-#5
SF-4	3'-6" x 3'-6" x 1'-0"	4-#5
SF-5	4'-0" x 4'-0" x 1'-0"	4-#5

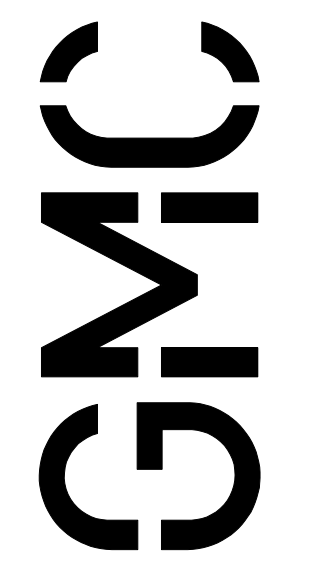
SOIL BEARING PRESSURE = 2500 psf
 ALL FOOTINGS SCHEDULED ARE NOT NECESSARILY USED.



- NOTES:
1. a: 10% OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER BUT NOT LESS THAN 4% OF LEAST HORIZONTAL DIMENSION OR 3 FEET.
 2. h: MEAN ROOF HEIGHT, IN FEET, EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR ROOF ANGLES OR SLOPES < 10°.
 3. PRESSURES SHOWN ARE APPLIED NORMAL (PERPENDICULAR) TO THE SURFACE.
 4. PLUS SIGNS SIGNIFY PRESSURES INWARD.
 5. MINUS SIGNS SIGNIFY PRESSURES ACTING OUTWARD (SUCTION).
 6. PRESSURES INDICATED ARE FOR COMBINATIONS OF EXTERNAL AND INTERNAL PRESSURES.
 7. WIND PRESSURES ARE BASED UPON CHAPTER 30 - PART 1 (LOW RISE BUILDINGS) ASCE 7-16.
 8. PRESSURES INDICATED ARE BASED UPON WIND VELOCITIES INDICATED IN CHAPTER 26 - ASCE 7-16 AND ARE FOR STRENGTH DESIGN. MULTIPLY WIND PRESSURE SHOWN BY 0.77 FOR ALLOWABLE STRESS DESIGN PRESSURES.

COMPONENTS AND CLADDING - WIND PRESSURES

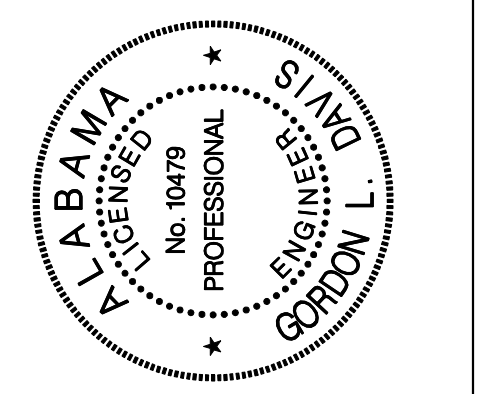
AREA (FT ²)	ROOF								WALL					
	1	2E	2N	2R	3E	3R	4	5	4	5	5			
10	+ 31.6 psf	- 96.3 psf	+ 31.6 psf	- 96.3 psf	+ 31.6 psf	- 140.4 psf	+ 31.6 psf	- 140.4 psf	+ 31.6 psf	- 140.4 psf	+ 47.7 psf	- 51.7 psf	+ 47.7 psf	- 63.6 psf
20	+ 28.5 psf	- 96.3 psf	+ 28.5 psf	- 96.3 psf	+ 28.5 psf	- 121.4 psf	+ 28.5 psf	- 121.4 psf	+ 28.5 psf	- 121.4 psf	+ 45.6 psf	- 49.6 psf	+ 45.6 psf	- 59.4 psf
50	+ 24.3 psf	- 58.6 psf	+ 24.3 psf	- 58.6 psf	+ 24.3 psf	- 96.3 psf	+ 24.3 psf	- 96.3 psf	+ 24.3 psf	- 111.4 psf	+ 42.8 psf	- 46.8 psf	+ 42.8 psf	- 53.8 psf
100	+ 21.2 psf	- 30.0 psf	+ 21.2 psf	- 30.0 psf	+ 21.2 psf	- 77.3 psf	+ 21.2 psf	- 77.3 psf	+ 21.2 psf	- 87.4 psf	+ 40.7 psf	- 44.6 psf	+ 40.7 psf	- 49.6 psf
500	+ 21.2 psf	- 30.0 psf	+ 21.2 psf	- 30.0 psf	+ 21.2 psf	- 52.1 psf	+ 21.2 psf	- 52.1 psf	+ 21.2 psf	- 52.1 psf	+ 35.8 psf	- 39.7 psf	+ 35.8 psf	- 39.7 psf



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 Montgomery, AL 36117
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FOUNDATION
 DETAILS
S2.1
 sheet 2 of 2

GORDON L. DAVIS
 STRUCTURAL ENGINEERING CONSULTANT
 P.O. BOX 241371
 MONTGOMERY, ALABAMA 36124-1371
 (334)213-3070 FAX (334)213-4020

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RECEPTACLE LEGEND	
	DUPLEX RECEPTACLE WALL MOUNTED 18" A.F.F. TO CENTER UNO.
	DUPLEX RECEPTACLE WALL MOUNTED 6" ACT TO CENTER OR 48" A.F.F. UNO.
	QUADRAPLEX RECEPTACLE WALL MOUNTED 18" A.F.F. TO CENTER UNO.
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER (5mA) RECEPTACLE WALL MOUNTED 18" A.F.F. TO CENTER UNO. "WP" INDICATES WEATHERPROOF "IN-USE" EXTRA DUTY METAL COVER, DEVICE "WEATHER-RESISTANT" RATED.
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER (5mA) RECEPTACLE WALL MOUNTED 18" A.F.F. TO CENTER UNO.
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER (5mA) RECEPTACLE WALL MOUNTED 6" ACT OR 48" A.F.F. TO CENTER UNO.

LIGHTING LEGEND	
	4' STRIP LED UNO. SURFACE MOUNTED OR CHAIN HUNG. LETTER "X" INDICATES FIXTURE TYPE, SEE LUMINAIRE SCHEDULE. THE LETTER "E" INDICATES THAT THE FIXTURE IS EQUIPPED WITH EMERGENCY BATTERY AND/OR WIRED AS A NIGHT LIGHT.
	WALL MOUNTED LIGHT FIXTURE. LETTER "X" INDICATES FIXTURE TYPE, SEE LUMINAIRE SCHEDULE. THE LETTER "E" INDICATES THAT THE FIXTURE IS EQUIPPED WITH EMERGENCY BATTERY AND/OR WIRED AS A NIGHT LIGHT.
	POLE MOUNTED LIGHT FIXTURE. LETTER "X" INDICATES FIXTURE TYPE, SEE LUMINAIRE SCHEDULE.
	EXIT SIGN WITH BATTERY BACKUP CEILING/WALL MOUNTED - FILLED IN SECTION INDICATES NUMBER OF FACES. ARROWS AS INDICATED ON PLANS - PROVIDE UNSWITCHED CONDUCTOR FOR 24 HOUR OPERATION. LETTER "X" INDICATES FIXTURE TYPE, SEE LUMINAIRE SCHEDULE.
	EMERGENCY LIGHT WITH BATTERY POWER, CONNECTED TO UNSWITCHED HOTLEG. LETTER "X" INDICATES FIXTURE TYPE, SEE LUMINAIRE SCHEDULE.
	PP-20 POWER PACK 120/277 VAC; 20 AMPS. SENSOR SWITCH INC.
	CEILING MOUNTED LINE VOLTAGE OCCUPANCY SENSOR. LOCATE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
	CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR. LOCATE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

POWER LEGEND	
	PANELBOARD, SURFACE MOUNTED.
	PANELBOARD, FLUSH MOUNTED.
	DISCONNECT SWITCH, NEMA 1, NON-FUSED, SUBSCRIPT INDICATES DISCONNECT SWITCH AMP RATING - SEE DISCONNECT SWITCH SCHEDULE.
	DISCONNECT SWITCH, NEMA 1, FUSED, SUBSCRIPT INDICATES DISCONNECT SWITCH AMP RATING - SEE DISCONNECT SWITCH SCHEDULE.
	DISCONNECT SWITCH, NEMA 3R, NON-FUSED, SUBSCRIPT INDICATES DISCONNECT SWITCH AMP RATING - SEE DISCONNECT SWITCH SCHEDULE.
	DISCONNECT SWITCH, NEMA 3R, FUSED, SUBSCRIPT INDICATES DISCONNECT SWITCH AMP RATING - SEE DISCONNECT SWITCH SCHEDULE.
	JUNCTION BOX CEILING MOUNTED. REFER TO SPECIFICATIONS FOR COLOR REQUIREMENTS FOR COVER.
	EXISTING PANELBOARD, SURFACE MOUNTED.

BRANCH CIRCUIT LEGEND	
	CONDUIT OR RACEWAY EXPOSED TO VIEW. RUN PARALLEL OR PERPENDICULAR TO STRUCTURE CONCEAL FROM VIEW AS MUCH AS POSSIBLE.
	CONDUIT OR RACEWAY EXPOSED TO VIEW. RUN PARALLEL OR PERPENDICULAR TO STRUCTURE CONCEAL FROM VIEW AS MUCH AS POSSIBLE.
	CONDUIT OR RACEWAY CONCEALED IN CEILING CAVITY OR WALL.
	CONDUIT OR RACEWAY UNDERGROUND OR CONCEALED IN FLOOR SLAB.
	UNDERGROUND PRIMARY.
	UNDERGROUND SECONDARY.
	OVERHEAD ELECTRICAL CABLE
	PHASE CONDUCTOR, NEUTRAL CONDUCTOR AND ISOLATED GROUND CONDUCTOR.
	HOMERUN. TICKS INDICATES NUMBER OF CONDUCTORS NO TICKS INDICATES 1 PHASE, 1 NEUTRAL, 1 GROUND CONDUCTOR.
	UNDERGROUND HOMERUN. TICKS INDICATES NUMBER OF CONDUCTORS NO TICKS INDICATES 1 PHASE, 1 NEUTRAL, 1 GROUND CONDUCTOR.

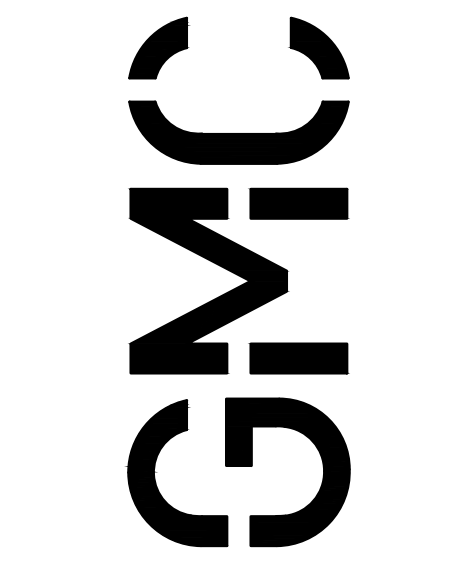
SWITCH LEGEND	
	WALL SWITCH SPST 42" AFF TO CENTER UNO 20A 120/277V.
	WALL MOUNTED OCCUPANCY SENSOR SWITCH. LOCATE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

GENERAL ELECTRICAL NOTES

- THE CONTRACTOR IS RESPONSIBLE TO FURNISH ALL LABOR, EQUIPMENT, MATERIALS, AND SUPPLIES AS NECESSARY FOR A NEAT, COMPLETE, AND SATISFACTORY OPERATING ELECTRICAL SYSTEMS WHICH CONFORMS TO ALL LOCAL CODES, PLANS, AND SPECIFICATIONS.
- ELECTRICAL CONTRACTOR SHALL REVIEW ENTIRE SET OF CONTRACT DOCUMENTS INCLUDING BUT NOT NECESSARILY LIMITED TO ALL CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND ENTIRE PROJECT MANUAL. ELECTRICAL CONTRACTOR SHALL ACKNOWLEDGE AND INCLUDE IN THE SCOPE OF WORK (CONTRACT) ALL CONDITIONS PERTINENT TO THE COMPLETION OF THE ELECTRICAL WORK. ELECTRICAL CONTRACTOR SHALL FULLY COORDINATE ELECTRICAL WORK WITH THE INSTALLATION OF WORK BY ALL OTHER TRADES AND MAKE NECESSARY FIELD ADJUSTMENTS AS REQUIRED TO ACCOMMODATE THE INSTALLATION. ALL OF THE ABOVE SHALL BE INCLUDED IN THE SCOPE OF WORK AT NO ADDITIONAL COST TO THE OWNER.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE, IT SHALL NOT BE THE INTENT OF ISSUED PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL NECESSARY ITEMS FOR A COMPLETE AND OPERATING SYSTEM.
- ALL INSTALLATIONS SHALL CONFORM TO THE LATEST EDITION OF ENFORCED INTERNATIONAL BUILDING CODE AND NFPA-70 AT THE TIME OF PERMIT.
- EACH BIDDER SHALL VISIT THE JOB SITE PRIOR TO BIDDING TO FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND TO ASCERTAIN THE EXTENT OF WORK REQUIRED. FAILURE TO VISIT SITE SHALL NOT EXCUSE CONTRACTOR FROM PERFORMING REQUIRED WORK NOR SHALL IT BE AN ACCEPTABLE REASON FOR REQUESTING ADDITIONS TO THE CONTRACT.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY AN AGENCY SUCH AS UNDERWRITER'S LABORATORIES (UL), ELECTRICAL TESTING LABORATORY (ETL), ETC AND ACCEPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION. FOR THE USE INTENDED WHERE A STANDARD FOR SUCH MATERIALS AND USE EXISTS. ALL ITEMS OF THE SAME TYPE AND RATING SHALL BE IDENTICAL AND OF THE SAME MANUFACTURER.
- THE WORD "PROVIDE" MEANS THAT THIS CONTRACTOR SHALL FURNISH, FABRICATE, ERECT, CONNECT, AND COMPLETELY INSTALL SYSTEMS IN PROPER OPERATING CONDITION. ALL LABOR, PRODUCT OPTIONS, ACCESSORIES AND INCIDENTAL MATERIALS REQUIRED SHALL BE INCLUDED AS PART OF THIS WORK TO COMPLETE THE INSTALLATION.
- THE ELECTRICAL DRAWINGS INDICATE REQUIREMENTS OF MECHANICAL/PLUMBING/FIRE PROTECTION/KITCHEN EQUIPMENT BASED ON RESPECTIVE DRAWINGS AND SPECIFICATIONS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL CONNECTIONS PRIOR TO ROUGH-IN USING APPROVED CATALOG SHEETS AND SHOP DRAWINGS. ACTUAL EQUIPMENT SUPPLIED MAY DIFFER. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADE DISCIPLINES TO INSURE ANY CHANGES WILL BE INSTALLED CORRECTLY AT THE EXPENSE OF THE DISCIPLINE RESPONSIBLE MAKING THE CHANGES AND/OR SUBSTITUTIONS THAT VARY FROM THE CONSTRUCTION DOCUMENTS.
- ALL ELECTRICAL CONNECTIONS WILL BE CODE COMPLIANT WITH N.E.C.
- WIRING SYSTEMS SHALL CONSIST OF COPPER WIRING INSTALLED IN CONDUIT, MINIMUM WIRE SIZE SHALL BE #12AWG, MINIMUM CONDUIT SIZE SHALL BE 3/4".
- CONDUCTORS SHALL BE 99% COPPER (NO ALUMINUM CONDUCTORS WILL BE ACCEPTED).
- SUBSURFACE CONDUIT SHALL BE SCHEDULE 40 PVC UNO. FOR RUNS GREATER THAN 50 FEET IN LENGTH, VERTICAL TURN UPS SHALL BE GRS SWEEP 90S WITH A BITUMASTIC COATING UNO.
- CONTRACTOR SHALL REPAIR ANY DISTURBED AREA TO SAME COMPACTION, GRADE, SLOPE, ETC. AS ORIGINAL AREA INCLUDING REPLACEMENT OF SOD, GRASS, ROCK, GRAVEL, RIP-RAP, ETC. TO THE SATISFACTION OF THE OWNER AND ENGINEER.
- CONTRACTOR SHALL REPAIR AND PATCH ALL WALLS, FLOORS, PENETRATIONS, ETC. TO MATCH THE ADJACENT SURFACE WHERE EQUIPMENT IS BEING REMOVED OR IF NECESSARY FOR THE INSTALLATION OF NEW EQUIPMENT UNDER THIS CONTRACT.
- ANY AREA OF CONSTRUCTION DAMAGED DURING THIS CONTRACT SHALL BE REPAIRED TO MATCH ADJACENT SURFACES.
- REMOVE ANY SPILLED DIRT, CONCRETE, ETC. FROM ANY DRIVEWAYS, ROADWAYS OR CONSTRUCTION SITE AS DIRECTED BY ARCHITECTURAL INSPECTOR.
- CLEAN UP ALL DEBRIS AROUND CONSTRUCTION SITE DAILY.
- ELECTRICAL CONTRACTOR SHALL ADJUST WIRE SIZE BASED ON ACTUAL INSTALLATION LENGTH VERSUS DESIGN DISTANCES MAXIMUM ALLOWED VOLTAGE DROP IS 3%.

ELECTRICAL ABBREVIATIONS

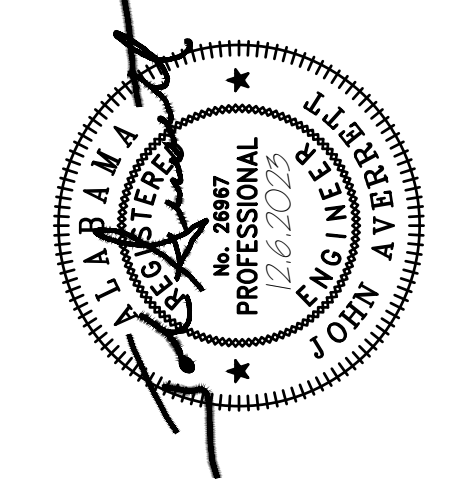
A, AMP	AMPERE
ACSR	ALUMINUM CONDUCTOR STEEL-REINFORCED
AF	AMPS FRAME
AFF	ABOVE FINISHED FLOOR
AIC	AMPS INTERRUPTING CAPACITY (SYM RMS)
AT	AMPS TRIP
AWG	AMERICAN WIRE GAUGE
(#)C	FIXTURE DESIGNATION (#) INDICATES # OF FIXTURES TOTAL
C	CONDUIT
CKT	CIRCUIT
CU	COPPER
DETD	DUAL ELEMENT TIME DELAY
EC	EMPTY CONDUIT
ELEC	ELECTRIC OR ELECTRICAL
EPR	ETHYLENE-PROPYLENE RUBBER INSULATION
ER	EXISTING ITEM TO BE REMOVED
EX	EXISTING TO REMAIN
EXIST	EXISTING
FACP	FIRE ALARM CONTROL PANEL
GFI	GROUND FAULT INTERRUPTER
G	GROUND
GFE	GOVERNMENT FURNISHED EQUIPMENT
GRS	GALVANIZED RIGID STEEL
HD	HAND DRYER
HP	HORSEPOWER
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
MIN	MINIMUM
N12	NEMA 12 RATED FOR DUST ENCLOSURE
N3R	NEMA 3R RATED FOR EXTERIOR USE
NIC	NOT IN THIS CONTRACT
NL	NIGHT LIGHT
NEC	NATIONAL ELECTRIC CODE
PNL	PANEL
P	POLE
PH	PHASE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
RECPT	RECEPTACLE
REQD	REQUIRED
RL	EXISTING ITEM TO BE RELOCATED
RU	RACK UNIT
SPD	SURGE PROTECTIVE DEVICE
SPEC	SPECIFICATIONS
ST	SHUNT TRIP
SWBD	SWITCHBOARD
TEL	TELEPHONE
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT AMPERE
W	WATT
WP	WEATHERPROOF
UNO	UNLESS NOTED OTHERWISE
XFMR	TRANSFORMER
#	NUMBER



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 Montgomery, AL 36117
 T 334.271.3200
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ISSUED FOR BID	12.06.2023
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DRAWN BY:	JMP
CHECKED BY:	JEA

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ELECTRICAL LEGENDS & NOTES
 GEO.01

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1 2 3 4 5 6 7 8 9 10

D. THE TRANSFORMER INSULATION SYSTEM SHALL BE CLASS 220 DEGREE C AND DESIGNED FOR FULL LOAD OPERATION AT RATED KVA WITH A MAXIMUM TEMPERATURE RISE OF 115 DEGREE C RISE OVER 40 DEGREE C AMBIENT.

E. THE MAXIMUM TEMPERATURE OF THE TOP OF THE ENCLOSURE SHALL NOT EXCEED 50 DEGREE C RISE OVER 40 DEGREE C AMBIENT.

F. TRANSFORMER ENCLOSURES SHALL BE VENTILATED AND FABRICATED OF HEAVY GAUGE, SHEET STEEL CONSTRUCTION WITH PERMANENTLY ATTACHED TRANSFORMER DATA LABEL.

G. MAXIMUM SOUND LEVEL FOR TRANSFORMERS SHALL NOT EXCEED:

- 45 DB FOR 15-50 KVA
- 50 DB FOR 51-150 KVA
- 55 DB FOR 151-300 KVA
- 60 DB FOR 301-500 KVA
- 62 DB FOR 501-700 KVA
- 64 DB FOR 701-1000 KVA
- 65 DB FOR 1001-1500 KVA
- 66 DB FOR 1501-2000 KVA

H. TRANSFORMER CONNECTIONS SHALL BE AT SIDES THROUGH LIQUID-TIGHT FLEXIBLE METAL CONDUIT WITH CONNECTIONS SUITABLE FOR CONDUCTOR MATERIAL.

I. TRANSFORMER SECONDARY NEUTRAL SHALL BE PROPERLY GROUNDED AS A SERVICE GROUND. THE CORE AND COILS SHALL BE ELECTRICALLY GROUNDED TO THE ENCLOSURE WITH A FLEXIBLE GROUND STRAP.

J. PROVIDE MANUFACTURER APPROVED AND LISTED WALL BRACKETS (75 KVA MAX) AND/OR CEILING MOUNTING BRACKETS (150 KVA MAX) WHERE INDICATED ON THE DRAWINGS.

15. SEISMIC:

A. THE ELECTRICAL CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PROVIDING SEISMIC SUPPORT AND BRACING OF ELECTRICAL COMPONENTS TO RESIST THE EFFECTS OF EARTHQUAKES ON THE ELECTRICAL SYSTEM AS WELL AS ANY REQUIRED SPECIAL INSPECTIONS BASED ON THE SPECIFIC GEOGRAPHIC LOCATION AS REQUIRED. THE SEISMIC RESTRAINTS AND SPECIAL INSPECTIONS SHALL MEET ALL APPLICABLE STATE AND LOCAL BUILDING CODE REQUIREMENTS AS WELL AS ASCE-7 REQUIREMENTS.

16. ELECTRICAL COORDINATION WITH OTHER TRADES:

A. THE ELECTRICAL CONTRACTOR SHALL CONNECT AND/OR PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT SUPPLIED BY OTHERS APPLICABLE TO THE PROJECT, INCLUDING BUT NOT LIMITED TO, MECHANICAL, PLUMBING, FIRE PROTECTION AND SUPPRESSION, OWNER FURNISHED, KITCHEN, LABORATORY, ETC. UNLESS OTHERWISE NOTED.

B. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONNECTIONS PRIOR TO ROUGH-IN USING APPROVED CATALOG SHEETS AND SHOP DRAWINGS. THE ELECTRICAL DRAWINGS INDICATE REQUIREMENTS OF MECHANICAL/PLUMBING/FIRE PROTECTION/KITCHEN EQUIPMENT BASED ON RESPECTIVE DRAWINGS AND SPECIFICATIONS. ACTUAL EQUIPMENT SUPPLIED MAY DIFFER, ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADE DISCIPLINES TO INSURE ANY CHANGES WILL BE INSTALLED CORRECTLY AT THE EXPENSE OF THE DISCIPLINE RESPONSIBLE MAKING THE CHANGES AND/OR SUBSTITUTIONS THAT VARY FROM THE CONSTRUCTION DOCUMENTS.

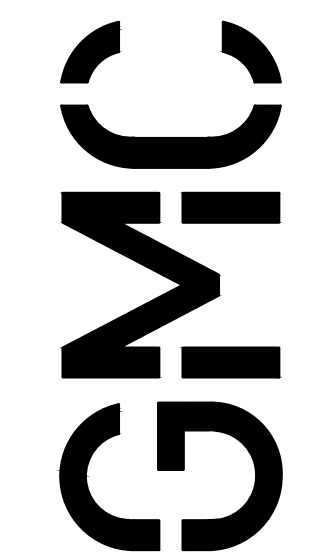
C. ALL DISCONNECT SWITCHES AND FUSE SIZES SHALL BE COORDINATED WITH SHOP DRAWINGS PRIOR TO ORDERING OR INSTALLING. ANY EQUIPMENT INSTALLED INCORRECTLY BECAUSE OF LACK OF COORDINATION WILL BE REMOVED AND INSTALLED CORRECTLY AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.

VOLTAGE DROP SCHEDULE		
120 VOLT BRANCH CIRCUITS UP TO 8 AMPS		
RUN DISTANCE IN FEET	WIRE SIZE AWG	
1' - 120'	#12	
121' - 190'	#10	
191' - 300'	#8	
301' - 470'	#6	
120 VOLT BRANCH CIRCUITS 9 AMPS TO 14 AMPS		
RUN DISTANCE IN FEET	WIRE SIZE AWG	
1' - 65'	#12	
66' - 110'	#10	
111' - 170'	#8	
171' - 270'	#6	
240 VOLT BRANCH CIRCUITS UP TO 8 AMPS		
RUN DISTANCE IN FEET	WIRE SIZE AWG	
1' - 225'	#12	
226' - 365'	#10	
366' - 575'	#8	
576' - 915'	#6	
THIS SCHEDULE DICTATES THE MINIMUM WIRE SIZE FOR ANY HOMERUN OR BRANCH CIRCUIT SHOWN FOR THIS DRAWING SET. CONTRACTOR SHALL UPSIZE WIRES BASED ON LOAD AND LENGTH OF RUN AS INDICATED IN SCHEDULE ABOVE.		

VOLTAGE DROP SCHEDULE		
120 VOLT BRANCH CIRCUITS UP TO 4 AMPS		
RUN DISTANCE IN FEET	WIRE SIZE AWG	
1' - 225'	#12	
226' - 365'	#10	
366' - 525'	#8	
526' - 800'	#6	
240 VOLT BRANCH CIRCUITS UP TO 14 AMPS		
RUN DISTANCE IN FEET	WIRE SIZE AWG	
1' - 450'	#12	
451' - 725'	#10	
726' - 1150'	#8	
1151' - 1800'	#6	
240 VOLT BRANCH CIRCUITS UP TO 8 AMPS		
RUN DISTANCE IN FEET	WIRE SIZE AWG	
1' - 225'	#12	
226' - 355'	#10	
356' - 575'	#8	
576' - 915'	#6	
THIS SCHEDULE DICTATES THE MINIMUM WIRE SIZE FOR THE ENTIRE LENGTH OF HOMERUN AND/OR BRANCH CIRCUIT SHOWN FOR THIS DRAWING SET. CONTRACTOR SHALL UPSIZE WIRES BASED ON LOAD AND LENGTH OF RUN AS INDICATED IN SCHEDULE ABOVE.		

VOLTAGE DROP SCHEDULE		
120 VOLT BRANCH CIRCUITS UP TO 8 AMPS		
RUN DISTANCE IN FEET	WIRE SIZE AWG	
1' - 120'	#12	
121' - 190'	#10	
191' - 300'	#8	
301' - 470'	#6	
120 VOLT BRANCH CIRCUITS 9 AMPS TO 14 AMPS		
RUN DISTANCE IN FEET	WIRE SIZE AWG	
1' - 65'	#12	
66' - 110'	#10	
111' - 170'	#8	
171' - 270'	#6	
277 VOLT BRANCH CIRCUITS UP TO 14 AMPS		
RUN DISTANCE IN FEET	WIRE SIZE AWG	
1' - 145'	#12	
146' - 235'	#10	
236' - 380'	#8	
381' - 600'	#6	
THIS SCHEDULE SHALL DICTATE THE MINIMUM WIRE SIZE FOR ANY HOMERUN OR BRANCH CIRCUIT FOR THIS DRAWING SET. CONTRACTOR SHALL UPSIZE WIRES BASED ON LOAD AND LENGTH OF RUN AS INDICATED IN SCHEDULE ABOVE.		

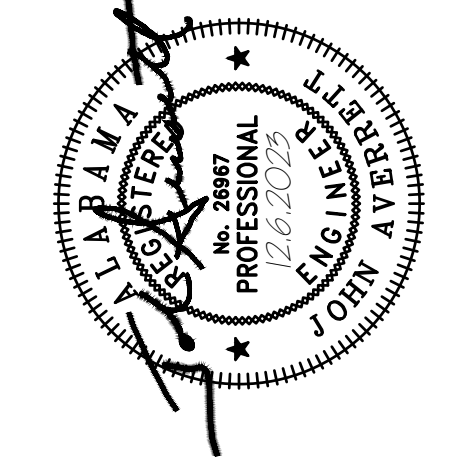
VOLTAGE DROP SCHEDULE		
120 VOLT BRANCH CIRCUITS UP TO 8 AMPS		
RUN DISTANCE IN FEET	WIRE SIZE AWG	
1' - 120'	#12	
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120 VOLT BRANCH CIRCUITS 9 AMPS TO 14 AMPS		
RUN DISTANCE IN FEET	WIRE SIZE AWG	
1' - 65'	#12	
66' - 110'	#10	
111' - 170'	#8	
171' - 270'	#6	
277 VOLT BRANCH CIRCUITS UP TO 8 AMPS		
RUN DISTANCE IN FEET	WIRE SIZE AWG	
1' - 260'	#12	
261' - 410'	#10	
411' - 660'	#8	
661' - 1050'	#6	
277 VOLT BRANCH CIRCUITS UP TO 14 AMPS		
RUN DISTANCE IN FEET	WIRE SIZE AWG	
1' - 145'	#12	
146' - 235'	#10	
236' - 380'	#8	
381' - 600'	#6	
THIS SCHEDULE SHALL DICTATE THE MINIMUM WIRE SIZE FOR ANY HOMERUN OR BRANCH CIRCUIT FOR THIS DRAWING SET. CONTRACTOR SHALL UPSIZE WIRES BASED ON LOAD AND LENGTH OF RUN AS INDICATED IN SCHEDULE ABOVE.		



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ELECTRICAL SPECIFICATIONS
 GEO.03

SECTION 26 56 68 - EXTERIOR ATHLETIC LIGHTING

Lighting System with LED Light Source

PART 1 - GENERAL

1.1 SUMMARY

- A. Work covered by this section of the specifications shall conform to the contract documents, engineering plans as well as state and local codes.
B. The purpose of these specifications is to define the lighting system performance and design standards for Integrity Park Soccer Fields using an LED Lighting source.
C. The sports lighting will be for the following venues:
1. (3) Soccer Fields
D. The primary goals of this sports lighting project are:

- 1. Guaranteed Light Levels: Selection of appropriate light levels impact the safety of the players and the enjoyment of spectators.
2. Environmental Light Control: It is the primary goal of this project to minimize spill light to adjoining properties and glare to the players, spectators and neighbors.
3. Cost of Ownership: In order to reduce the operating budget, the preferred lighting system shall be energy efficient and cost effective to operate.
4. Control and Monitoring - To allow for optimized use of labor resources and avoid unneeded operation of the facility, customer requires a remote on/off control system for the lighting system.

1.2 ONFIELD LIGHTING PERFORMANCE

A. Illumination Levels and Design Factors: Playing surfaces shall be lit to an average target illumination level and uniformity as specified in the chart below. Lighting manufacturers will provide a guarantee that light levels will be sustained over the life of the warranty period.
Manufacturers will provide lumen maintenance data of the LED luminaires used per TM-21-11 and will incorporate the lumen maintenance projections into the lighting designs to ensure target light levels are achieved throughout the guaranteed period of the system.

Table with 5 columns: Area of Lighting, Average Target Illumination Levels, Maximum to Minimum Uniformity Ratio, Grid Points, Grid Spacing. Rows include Field 1, Field 2, Field 3.

- B. Color Temperature: The lighting system shall have a minimum color temperature of 5700K and a CRI of 75+.
C. Playability: Lighting design and luminaire selection should be optimized for playability by reducing glare onfield and providing sufficient uplight.
1. Aiming Angles: To reduce glare, luminaire aiming should ensure the top of the luminaire field angle (based on sample photometric reports) is a minimum of 10 degrees below horizontal.
2. Glare Control Technology - Luminaires selected should have glare control technology including, but not limited to: external visors, internal shields and louvers.
3. Mounting Heights: To ensure proper aiming angles, minimum mounting heights shall be as described below.

Table with 3 columns: # of Poles, Pole Designation, Pole Height. Row 1: 12, S1-S12, 70'

1.3 ENVIRONMENTAL LIGHT CONTROL

A. Light Control Luminaires: All luminaires shall utilize spill light and glare control devices including, but not limited to, internal shields, louvers and external shields. No symmetrical beam patterns are accepted.

1.4 Cost of Ownership

A. Manufacturer shall submit a 25-year Cost of Ownership summary that includes energy consumption, anticipated maintenance costs, and control costs. All costs associated with faulty luminaire replacement - equipment rentals, removal and installation labor, and shipping - are to be included in the maintenance costs.

PART 2 - PRODUCT

2.1 SPORTS LIGHTING SYSTEM CONSTRUCTION

- A. Manufacturing Requirements: All components shall be designed and manufactured as a system. All luminaires, wire harnesses, drivers and other enclosures shall be factory assembled, aimed, wired and tested.
B. Durability: All exposed components shall be constructed of corrosion resistant material and/or coated to help prevent corrosion.
C. System Description: Lighting system shall consist of the following:
1. Galvanized steel poles and cross-arm assembly.
2. Non-approved pole technology.
3. Lighting systems shall use concrete foundations.
4. Manufacturer will supply all drivers and supporting electrical equipment

- a. Remote drivers and supporting electrical equipment shall be mounted approximately 10 feet above grade in aluminum enclosures.
b. Manufacturer shall provide surge protection at the pole equal to or greater than 40 kA for each line to ground (Common Mode) as recommended by IEEE C62.41.2_2002.
5. Wire harness complete with an abrasion protection sleeve, strain relief and plug-in connections for fast, trouble-free installation.
6. All luminaires, visors, and cross-arm assemblies shall withstand 150 mi/h winds and maintain luminaire aiming alignment.
7. Control cabinet to provide remote on-off control, monitoring, and entertainment features of the lighting system.
8. Manufacturer shall provide lightning grounding as defined by NFPA 780 and be UL Listed per UL 96 and UL 96A.

2.2 ELECTRICAL

- A. Electric Power Requirements for the Sports Lighting Equipment:
1. Electric power: 208 Volt, 1 Phase - Soccer Field 1, 480 Volt, 3 Phase - Soccer Fields 2 & 3
2. Maximum total voltage drop: Voltage drop to the disconnect switch located on the poles shall not exceed three (3) percent of the rated voltage.
B. Energy Consumption: The kW consumption for the field lighting system shall be 75.12 kW.

2.3 CONTROL

- A. Instant On/Off Capabilities: System shall provide for instant on/off of luminaires.
B. Lighting control cabinet(s) constructed of NEMA Type 4 aluminum, designed for easy installation with contactors, labeled to match field diagrams and electrical design.
C. Contactor control of lights: To minimize wear on drivers and other electrical components and prevent lights from turning on due to communication loss, circuits must be controlled via contactor switching, not dimming driver output to zero.
D. Dimming: System shall provide for 3-stage dimming (high-medium-low).
E. Remote Lighting Control System: System shall allow owner and users with a security code to schedule on/off system operation via a web site, phone, fax or email up to ten years in advance.

The owner may assign various security levels to schedulers by function and/or fields. This function must be flexible to allow a range of privileges such as full scheduling capabilities for all fields to only having permission to execute "early off" commands by phone.
Controller shall accept and store 7-day schedules, be protected against memory loss during power outages, and shall reboot once power is regained and execute any commands that would have occurred during outage.

- F. Remote Monitoring System: System shall monitor lighting performance and notify manufacturer if individual luminaire outage is detected so that appropriate maintenance can be scheduled.
G. Management Tools: Manufacturer shall provide a web-based database and dashboard tool of actual field usage and provide reports by facility and user group.
H. Communication Costs: Manufacturer shall include communication costs for operating the control and monitoring system for a period of 25 years.
I. Communication with luminaire drivers: Control system shall interface with drivers in electrical components enclosures by means of powerline communication.

2.4 STRUCTURAL PARAMETERS

- A. Wind Loads: Wind loads shall be based on the 2021 International Building Code.
B. Pole Structural Design: The stress analysis and safety factor of the poles shall conform to 2013 AASHTO Standard Specification for Structural Supports for Highway Signs, Luminaires, and Traffic Signals (LTS-6).
C. Foundation Design: The foundation design shall be based on soils that meet or exceed those of a Class 5 material as defined by 2021 IBC Table 1806.2.
D. Foundation Drawings: Project specific foundation drawings stamped by a registered engineer in the state where the project is located are required.

PART 3 - EXECUTION

3.1 SOIL QUALITY CONTROL

- A. It shall be the Contractor's responsibility to notify the Owner if soil conditions exist other than those on which the foundation design is based.
1. Providing engineered foundation embedment design by a registered engineer in the State of Alabama for soils other than specified soil conditions;
2. Additional materials required to achieve alternate foundation;
3. Excavation and removal of materials other than normal soils, such as rock, caliche, etc.

3.2 DELIVERY TIMING

A. Delivery Timing Equipment On-Site: The equipment must be on-site 10-12 weeks from receipt of approved submittals and receipt of complete order information.

3.3 FIELD QUALITY CONTROL

- A. Illumination Measurements: Upon substantial completion of the project and in the presence of the Contractor, Project Engineer, Owner's Representative, and Manufacturer's Representative, illumination measurements shall be taken and verified.
B. Field Light Level Accountability
1. Light levels are guaranteed not to fall below the target maintained light levels for the entire warranty period

- of 25 years. These levels will be specifically stated as "guaranteed" on the illumination summary provided by the manufacturer.
2. The contractor/manufacturer shall be responsible for conducting initial light level testing and an additional inspection of the system, in the presence of the owner, one year from the date of commissioning of the lighting.
3. The contractor/manufacturer will be held responsible for any and all changes needed to bring these fields back to compliance for light levels and uniformities.

3.4 WARRANTY AND GUARANTEE

- A. 25-Year Warranty: Each manufacturer shall supply a signed warranty covering the entire system for 25 years from the date of shipment.
B. Maintenance: Manufacturer shall monitor the performance of the lighting system, including on/off status, hours of usage and luminaire outage for 25 years from the date of equipment shipment.

PART 4 - DESIGN APPROVAL

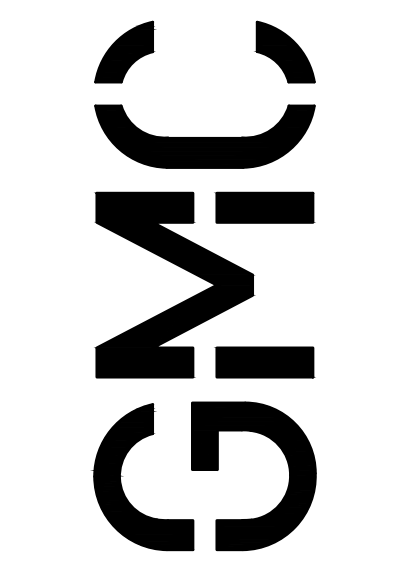
4.1 PRE-BID SUBMITTAL REQUIREMENTS (Non-Musco)

- A. Design Approval: The owner / engineer will review pre-bid submittals per section 4.1.B from all the manufacturers to ensure compliance to the specification 10 days prior to bid.
B. Approved Product: Musco's Light-Structure System™ with TLC for LED® is the approved product.
C. All listed manufacturers not pre-approved shall submit the information at the end of this section at least 10 days prior to bid.
D. Bidders are required to bid only products that have been approved by this specification or addendum by the owner or owner's representative.

REQUIRED SUBMITTAL INFORMATION FOR ALL MANUFACTURERS (NOT PRE-APPROVED) 10 DAYS PRIOR TO BID

All items listed below are mandatory, shall comply with the specification and be submitted according to pre-bid submittal requirements. Complete the Yes/No column to indicate compliance (Y) or noncompliance (N) for each item. Submit checklist below with submittal.

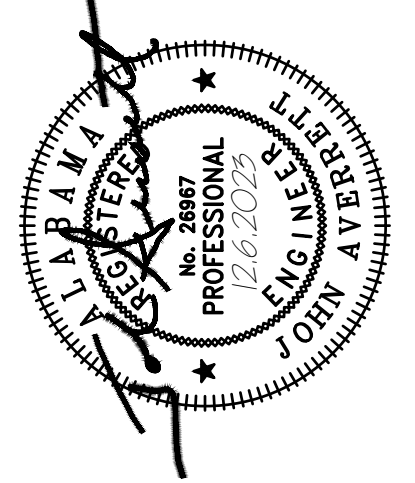
Table with 5 columns: Yes/No, Tab, Item, Description. Rows include A (Letter/Checklist), B (Equipment Layout), C (On Field Lighting Design), D (Photometric Report), E (Performance Guarantee), F (Structural Calculations), G (Control & Monitoring System), H (Electrical Distribution Plans), I (Warranty), J (Project References), K (Product Information), L (Delivery), M (Non-Compliance), N (Cost of Ownership).



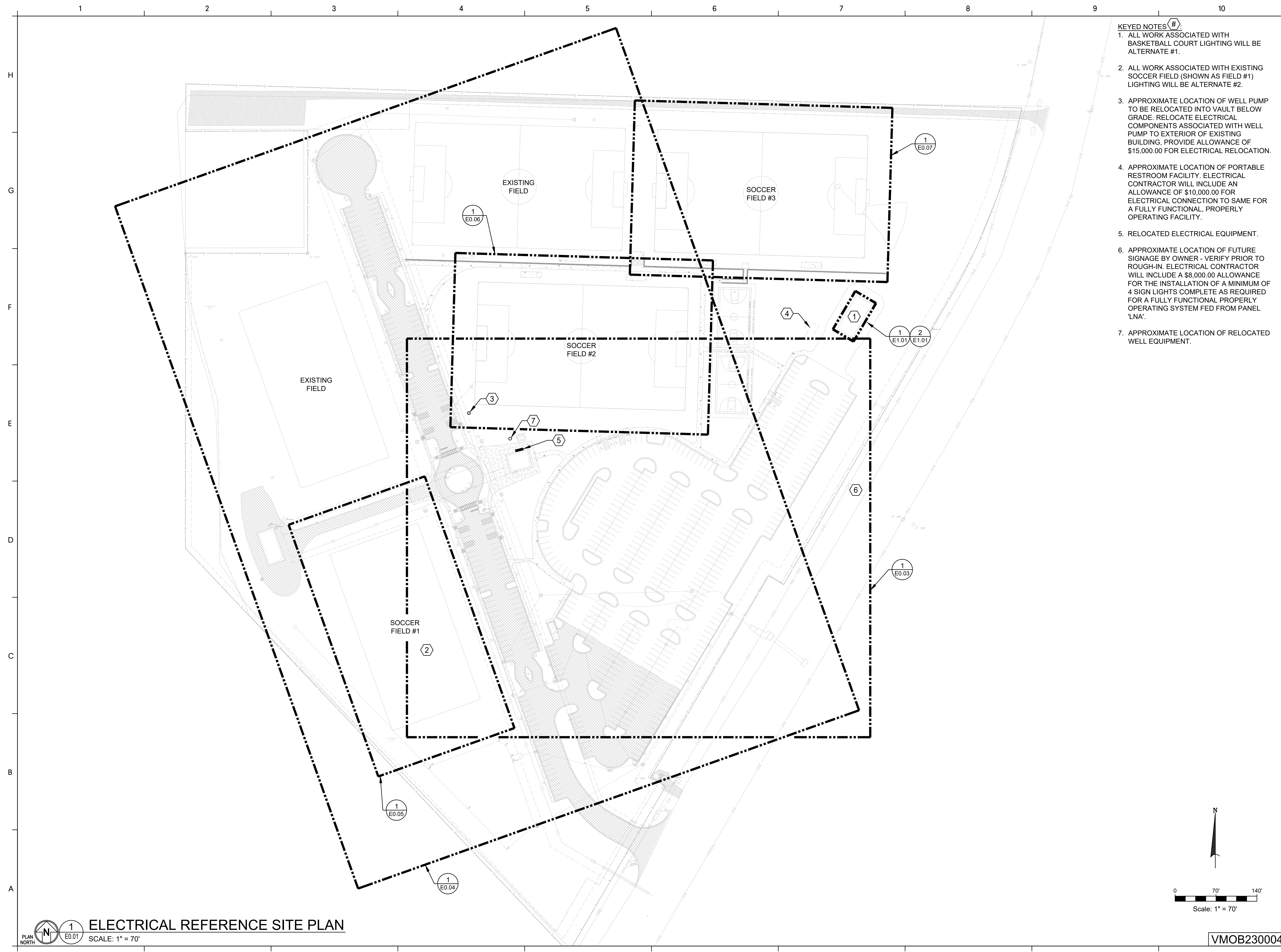
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Table with 2 columns: ISSUE DATE, ISSUED FOR BID. Includes dates 12.06.2023 and 12.16.2023.

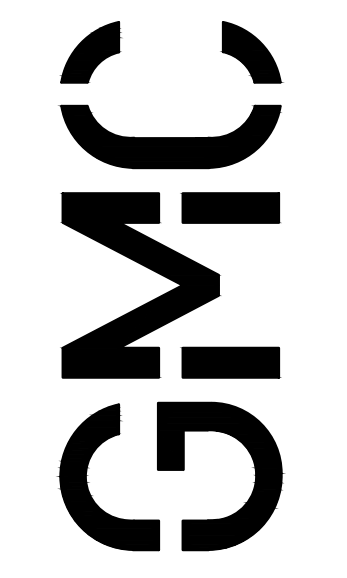
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ELECTRICAL SPECIFICATIONS
GEO.04



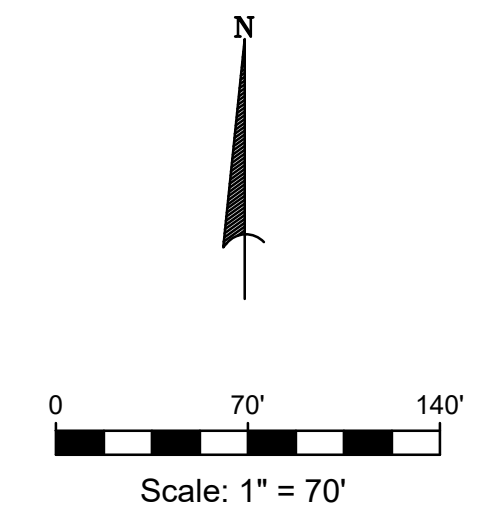
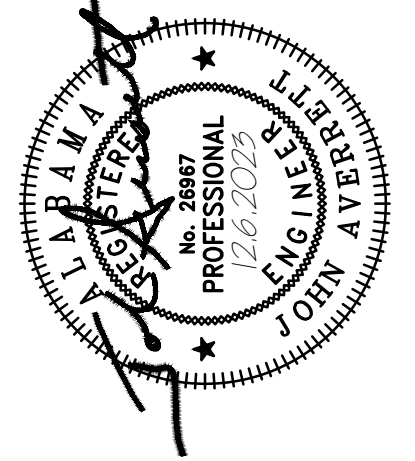
- KEYED NOTES (#)**
1. ALL WORK ASSOCIATED WITH BASKETBALL COURT LIGHTING WILL BE ALTERNATE #1.
 2. ALL WORK ASSOCIATED WITH EXISTING SOCCER FIELD (SHOWN AS FIELD #1) LIGHTING WILL BE ALTERNATE #2.
 3. APPROXIMATE LOCATION OF WELL PUMP TO BE RELOCATED INTO VAULT BELOW GRADE. RELOCATE ELECTRICAL COMPONENTS ASSOCIATED WITH WELL PUMP TO EXTERIOR OF EXISTING BUILDING, PROVIDE ALLOWANCE OF \$15,000.00 FOR ELECTRICAL RELOCATION.
 4. APPROXIMATE LOCATION OF PORTABLE RESTROOM FACILITY. ELECTRICAL CONTRACTOR WILL INCLUDE AN ALLOWANCE OF \$10,000.00 FOR ELECTRICAL CONNECTION TO SAME FOR A FULLY FUNCTIONAL, PROPERLY OPERATING FACILITY.
 5. RELOCATED ELECTRICAL EQUIPMENT.
 6. APPROXIMATE LOCATION OF FUTURE SIGNAGE BY OWNER - VERIFY PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR WILL INCLUDE A \$8,000.00 ALLOWANCE FOR THE INSTALLATION OF A MINIMUM OF 4 SIGN LIGHTS COMPLETE AS REQUIRED FOR A FULLY FUNCTIONAL PROPERLY OPERATING SYSTEM FED FROM PANEL 'LNA'.
 7. APPROXIMATE LOCATION OF RELOCATED WELL EQUIPMENT.



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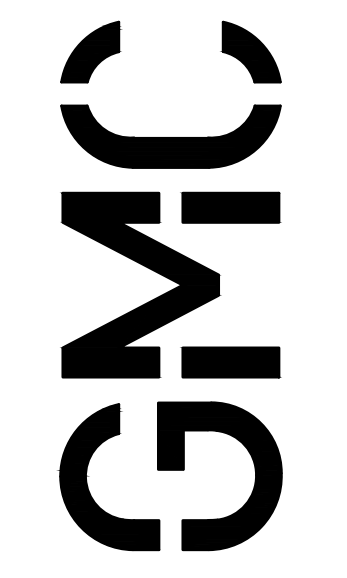
ELECTRICAL REFERENCE SITE PLAN
 PLAN NORTH 1 E0.01 SCALE: 1" = 70'

ELECTRICAL REFERENCE SITE PLAN
E0.01

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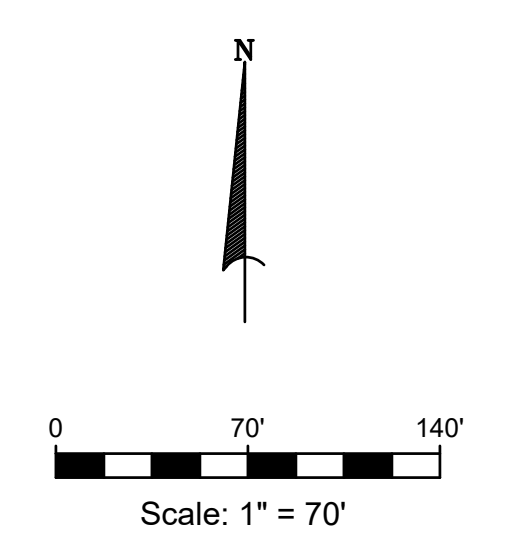
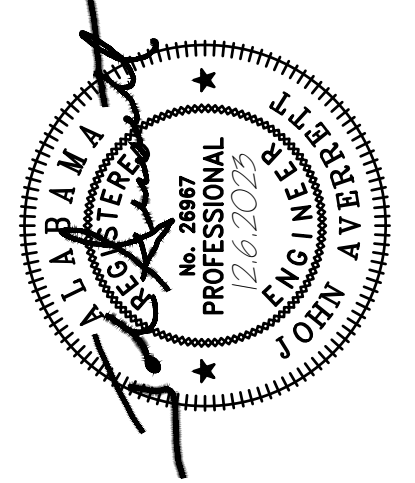
- KEYED NOTES (#)**
1. NEW UTILITY/STORAGE BUILDING.
 2. APPROXIMATE LOCATION OF PANEL 'NF'.
 3. UTILITY CO. METER.
 4. APPROXIMATE LOCATION OF NEW UTILITY CO. PADMOUNTED TRANSFORMER.
 5. UNDERGROUND PRIMARY BY UTILITY CO. - SEE RISER DIAGRAM.
 6. APPROXIMATE LOCATION OF UTILITY CO. RISER POLE.
 7. UNDERGROUND SECONDARY - SEE RISER DIAGRAM.
 8. APPROXIMATE LOCATION OF EXISTING PANEL 'LPB'. (ALTERNATE #2).
 9. CUT AND PATCH EXISTING CONCRETE AS REQUIRED FOR INSTALLATION OF CONDUITS FOR SOCCER FIELD #1 LIGHTING. CONCRETE MUST BE SAW CUT AND PATCHED TO MATCH EXISTING. (ALTERNATE #2).



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OVERALL ELECTRICAL SITE PLAN
 SCALE: 1" = 70'

OVERALL ELECTRICAL SITE PLAN
E0.02

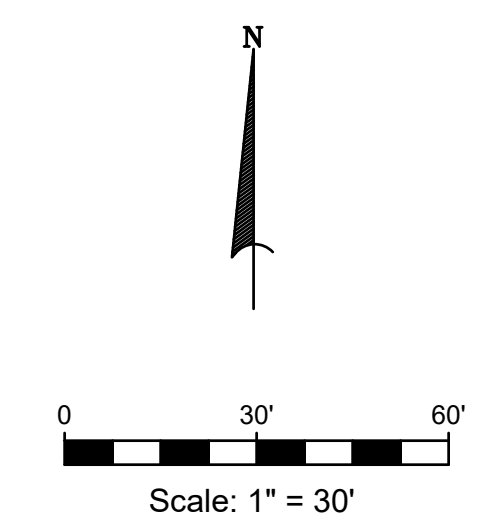
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- KEYED NOTES (#)**
1. LNF-6,8 THRU RELAY CONTROL PANEL 'A', CIRCUIT 6 THRU RELAY 'A1' AND CIRCUIT 8 THRU RELAY 'A2'.
 2. LNF-10,12 THRU RELAY CONTROL PANEL 'A', CIRCUIT 10 THRU RELAY 'A3' AND CIRCUIT 12 THRU RELAY 'A4'.
 3. LNF-14,16 THRU RELAY CONTROL PANEL 'A', CIRCUIT 14 THRU RELAY 'A5' AND CIRCUIT 16 THRU RELAY 'A6'.
 4. LNF-18 THRU RELAY 'A7' IN RELAY CONTROL PANEL 'A'.
 5. LNF-20,22 THRU RELAY CONTROL PANEL 'A', CIRCUIT 20 THRU RELAY 'A8', CIRCUIT 22 THRU RELAY 'A9'.
 6. LNF-24 THRU RELAY 'A10' IN RELAY CONTROL PANEL 'A'.
 7. LNF-26,28 THRU RELAY CONTROL PANEL 'A', CIRCUIT 26 THRU RELAY 'A11', CIRCUIT 28 THRU RELAY 'A12'.
 8. EXISTING LIGHTING STANDARD SHOWN FOR REFERENCE ONLY - NO WORK REQUIRED.

PARKING LOT LIGHTING PLAN

PLAN NORTH 1 E0.03 SCALE: 1" = 30'



VMOB230004



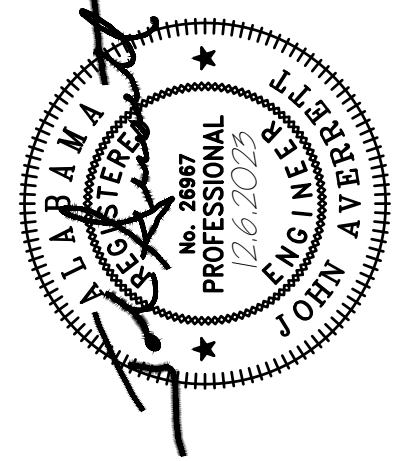
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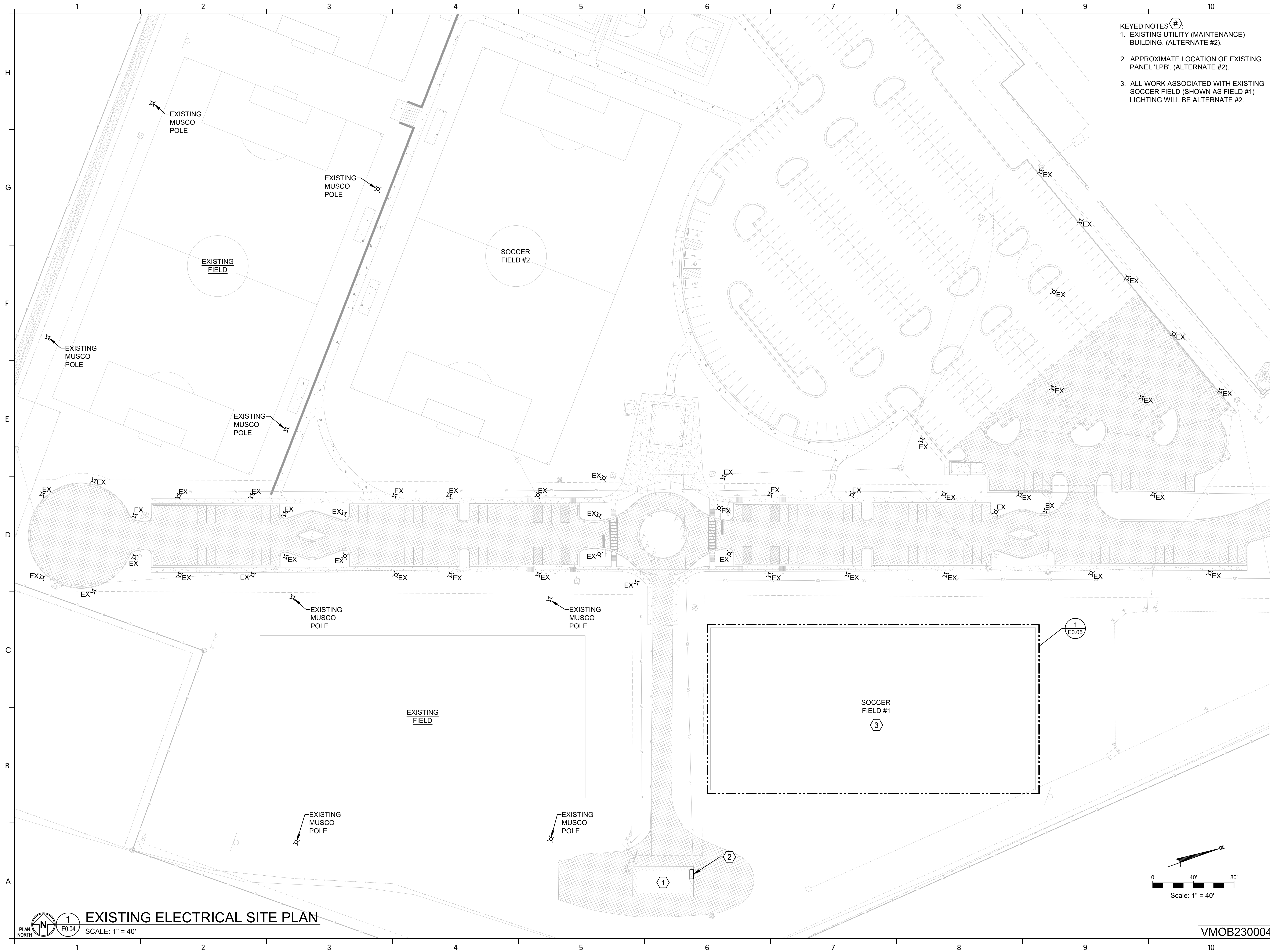
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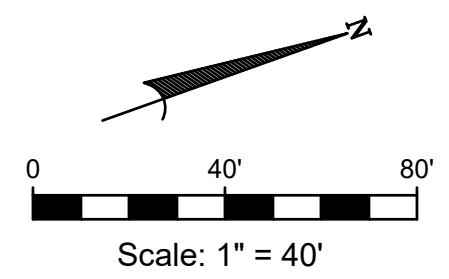
PARKING LOT LIGHTING PLAN

E0.03

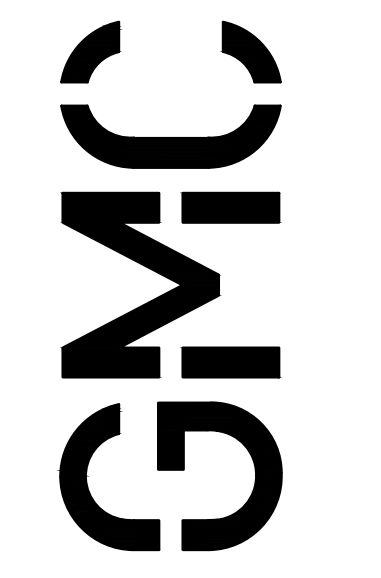


- KEYED NOTES (#):**
- EXISTING UTILITY (MAINTENANCE) BUILDING. (ALTERNATE #2).
 - APPROXIMATE LOCATION OF EXISTING PANEL 'LPB'. (ALTERNATE #2).
 - ALL WORK ASSOCIATED WITH EXISTING SOCCER FIELD (SHOWN AS FIELD #1) LIGHTING WILL BE ALTERNATE #2.

PLAN NORTH 1 **EXISTING ELECTRICAL SITE PLAN**
 SCALE: 1" = 40'



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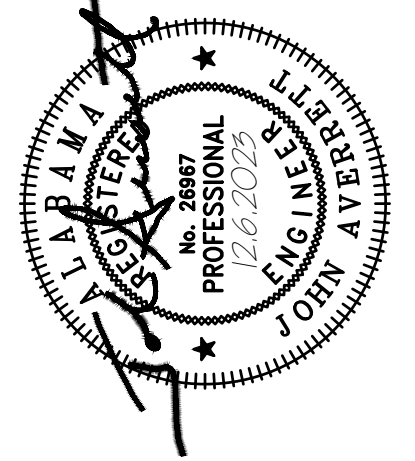
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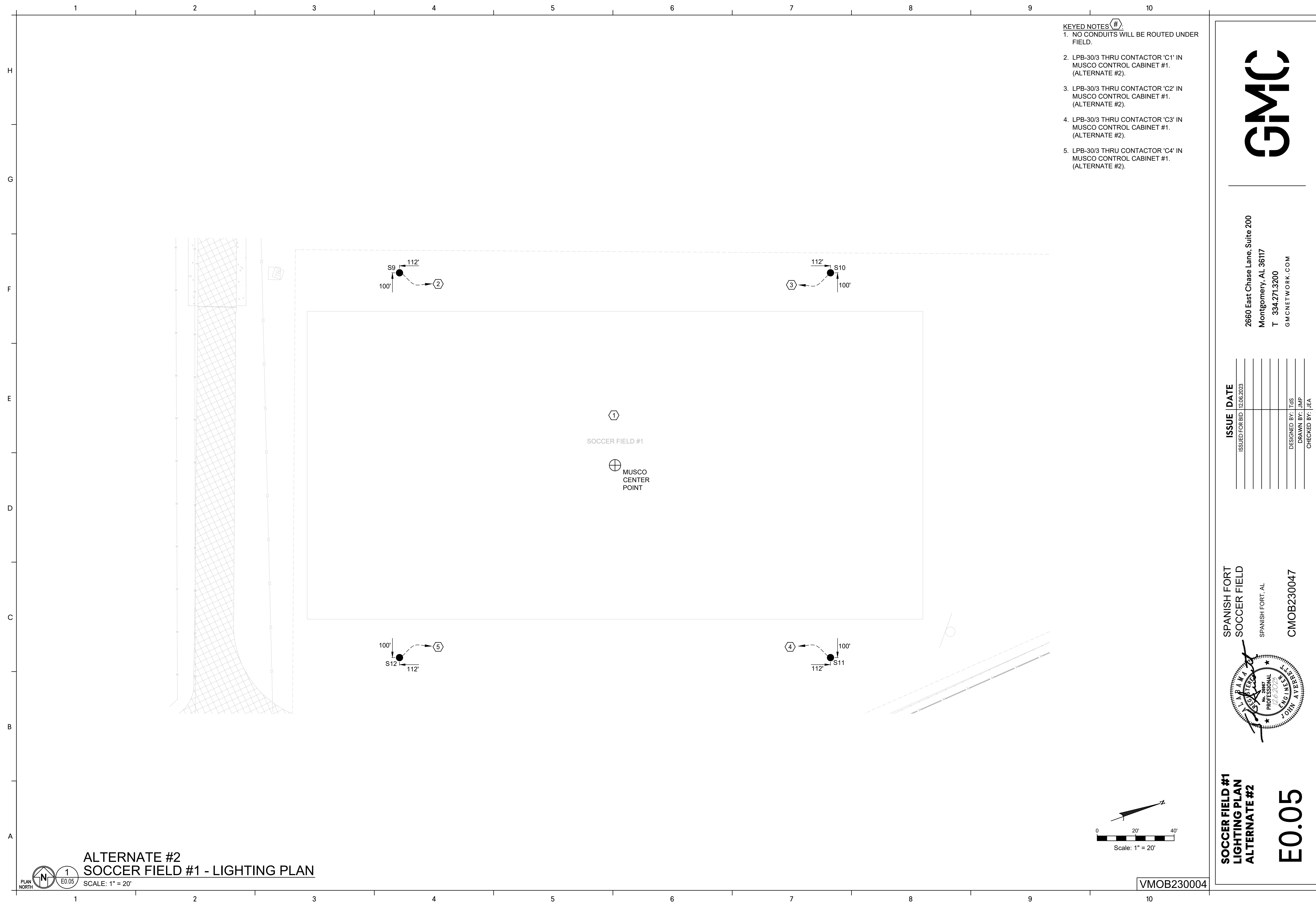
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**EXISTING
 ELECTRICAL
 SITE PLAN**

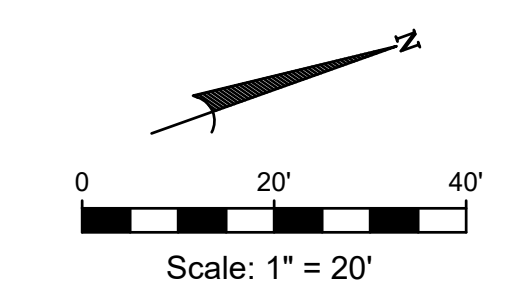
E0.04



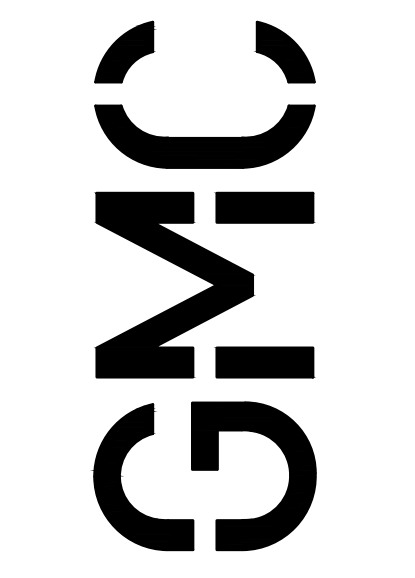
- KEYED NOTES**
- NO CONDUITS WILL BE ROUTED UNDER FIELD.
 - LPB-30/3 THRU CONTACTOR 'C1' IN MUSCO CONTROL CABINET #1. (ALTERNATE #2).
 - LPB-30/3 THRU CONTACTOR 'C2' IN MUSCO CONTROL CABINET #1. (ALTERNATE #2).
 - LPB-30/3 THRU CONTACTOR 'C3' IN MUSCO CONTROL CABINET #1. (ALTERNATE #2).
 - LPB-30/3 THRU CONTACTOR 'C4' IN MUSCO CONTROL CABINET #1. (ALTERNATE #2).

ALTERNATE #2
SOCCER FIELD #1 - LIGHTING PLAN

PLAN NORTH 1 E0.05
 SCALE: 1" = 20'



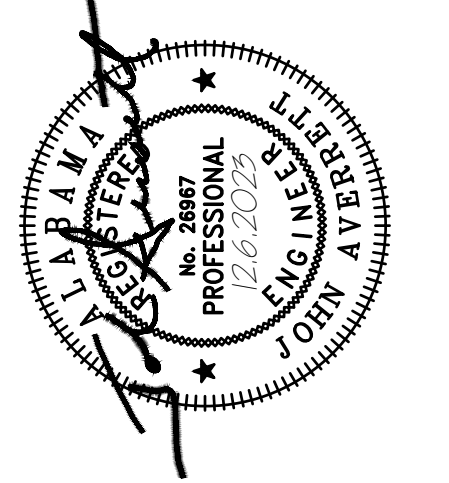
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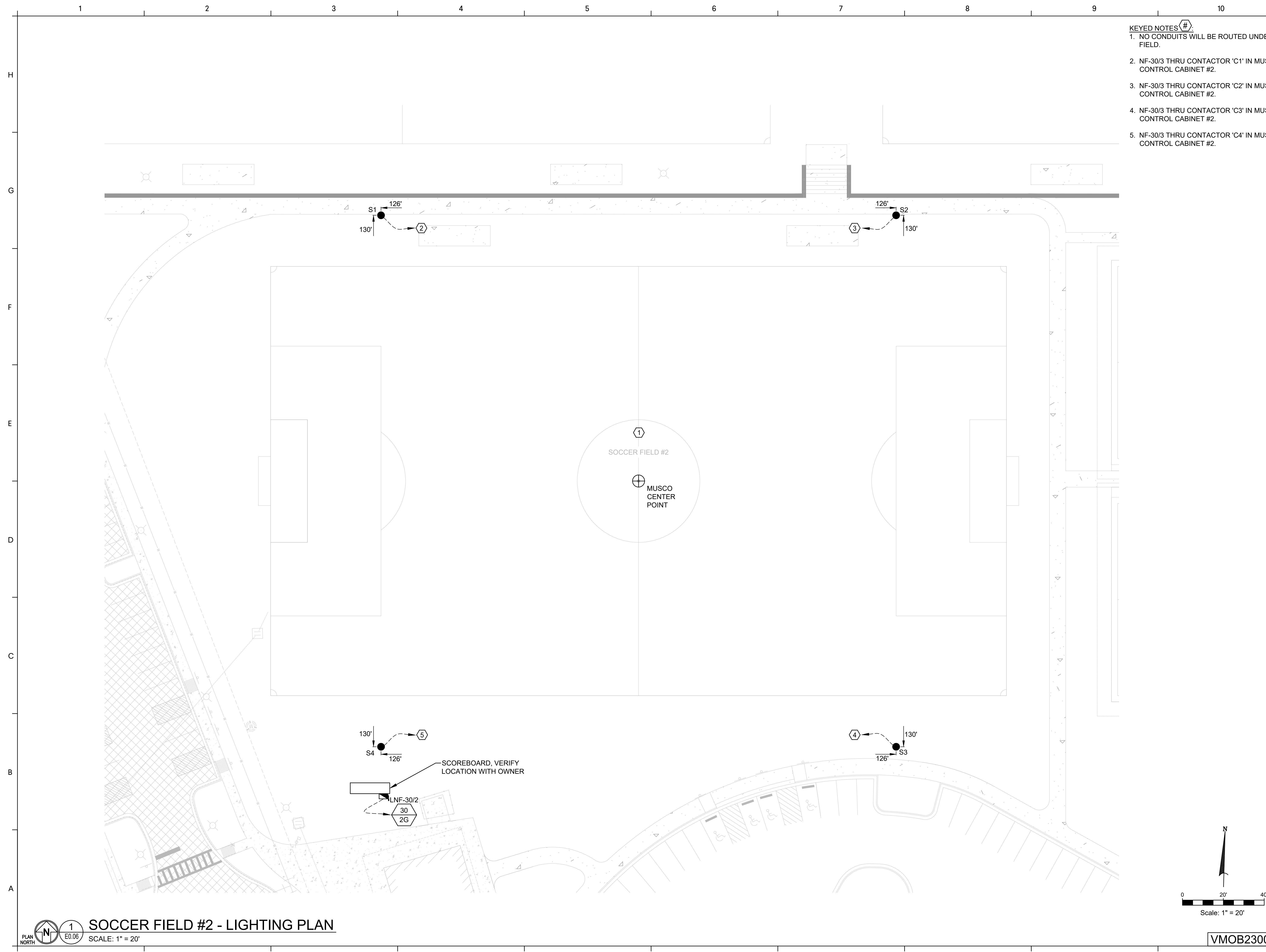
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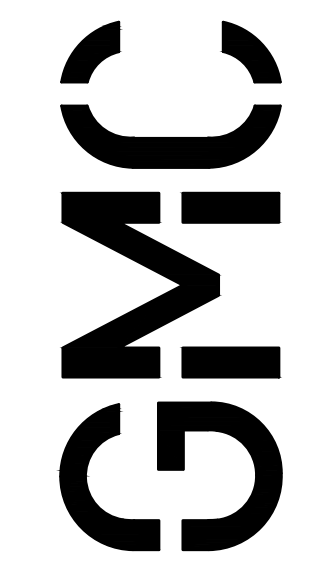


SOCCER FIELD #1
LIGHTING PLAN
ALTERNATE #2

E0.05



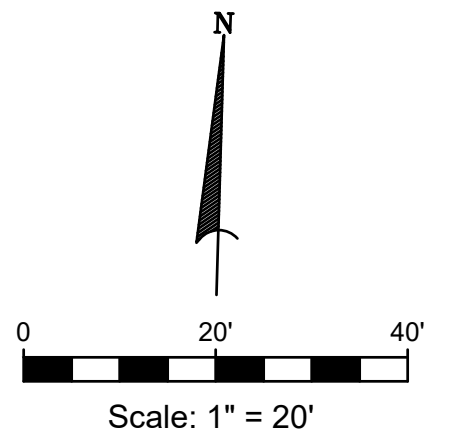
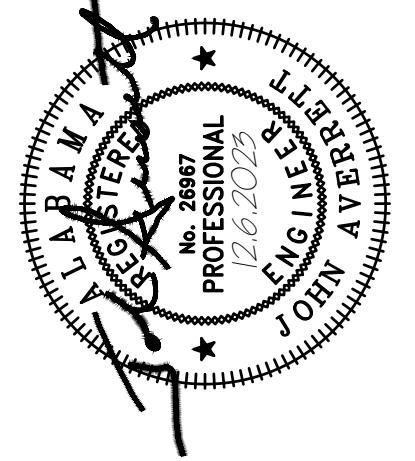
- KEYED NOTES (#):**
1. NO CONDUITS WILL BE ROUTED UNDER FIELD.
 2. NF-30/3 THRU CONTACTOR 'C1' IN MUSCO CONTROL CABINET #2.
 3. NF-30/3 THRU CONTACTOR 'C2' IN MUSCO CONTROL CABINET #2.
 4. NF-30/3 THRU CONTACTOR 'C3' IN MUSCO CONTROL CABINET #2.
 5. NF-30/3 THRU CONTACTOR 'C4' IN MUSCO CONTROL CABINET #2.



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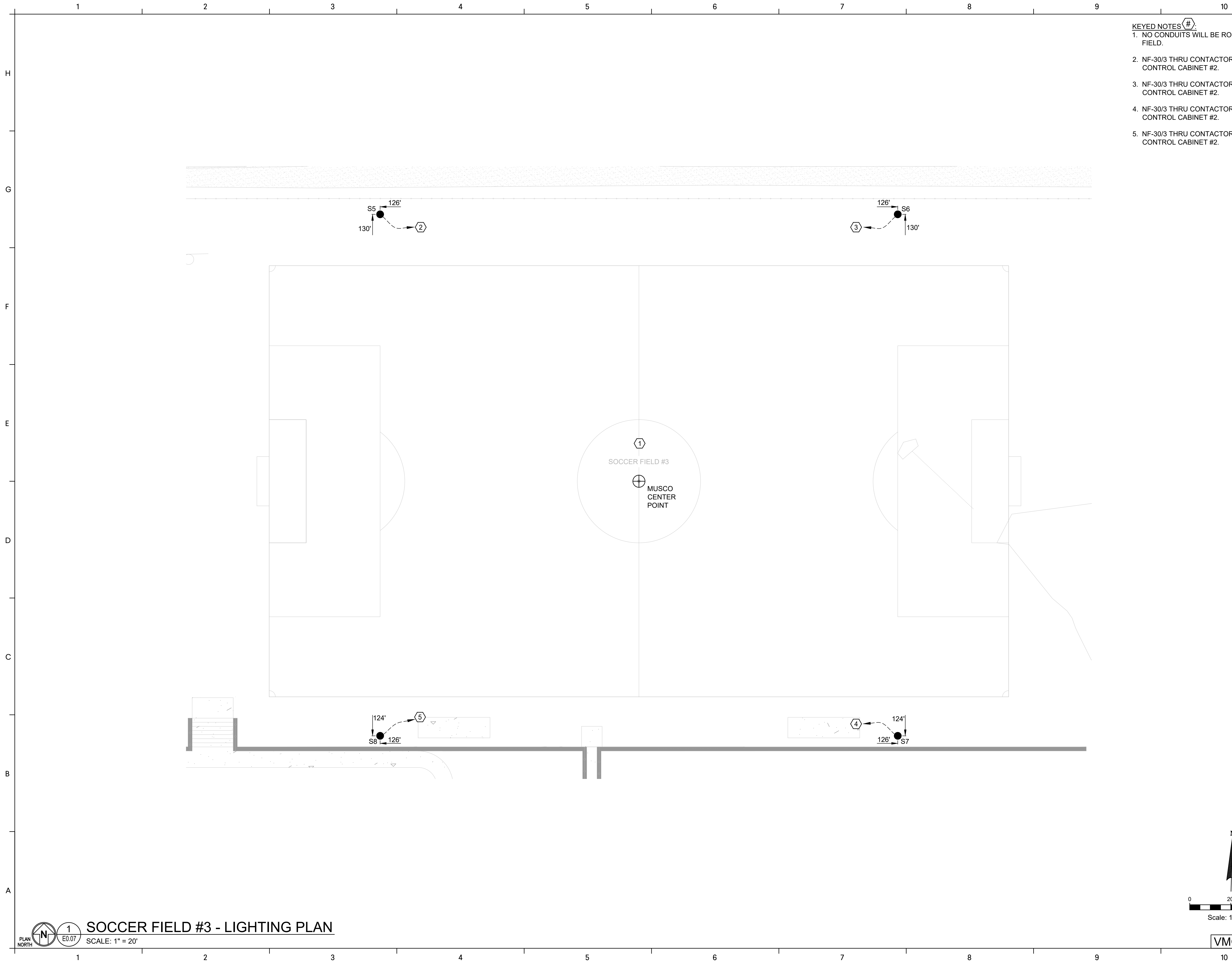


SOCCER FIELD #2 - LIGHTING PLAN
 SCALE: 1" = 20'

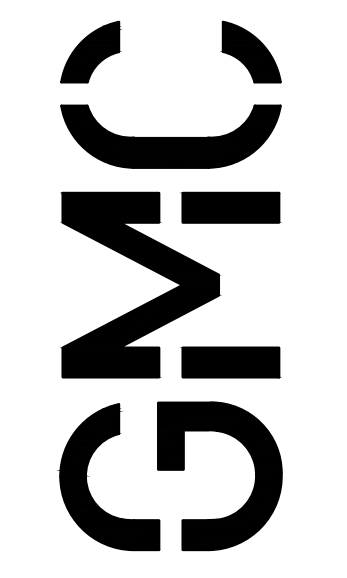
**SOCCER FIELD #2
 LIGHTING PLAN**

E0.06

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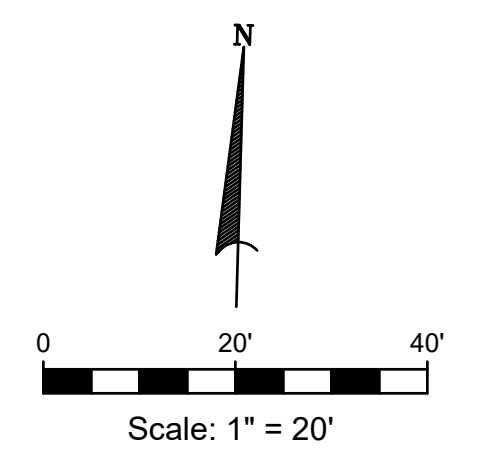
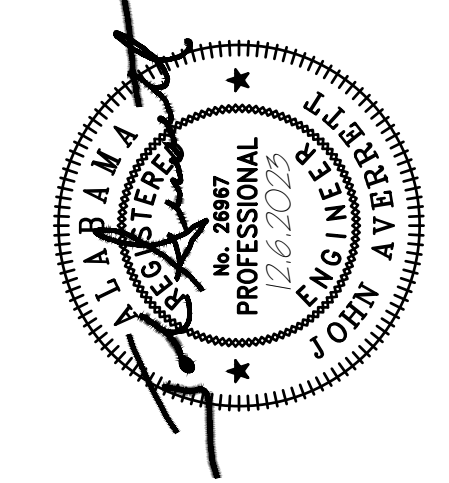
- KEYED NOTES** (in circled numbers):
- NO CONDUITS WILL BE ROUTED UNDER FIELD.
 - NF-30/3 THRU CONTACTOR 'C5' IN MUSCO CONTROL CABINET #2.
 - NF-30/3 THRU CONTACTOR 'C6' IN MUSCO CONTROL CABINET #2.
 - NF-30/3 THRU CONTACTOR 'C7' IN MUSCO CONTROL CABINET #2.
 - NF-30/3 THRU CONTACTOR 'C8' IN MUSCO CONTROL CABINET #2.



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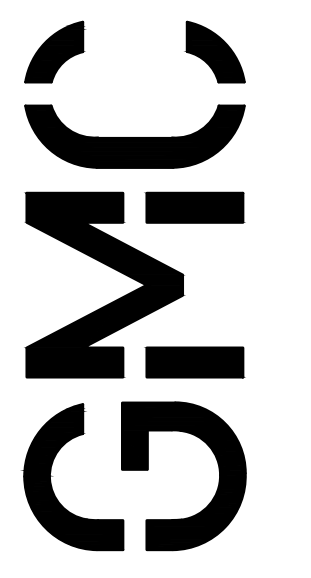


SOCCER FIELD #3 - LIGHTING PLAN
 SCALE: 1" = 20'
 PLAN NORTH

**SOCCER FIELD #3
 LIGHTING PLAN**
E0.07

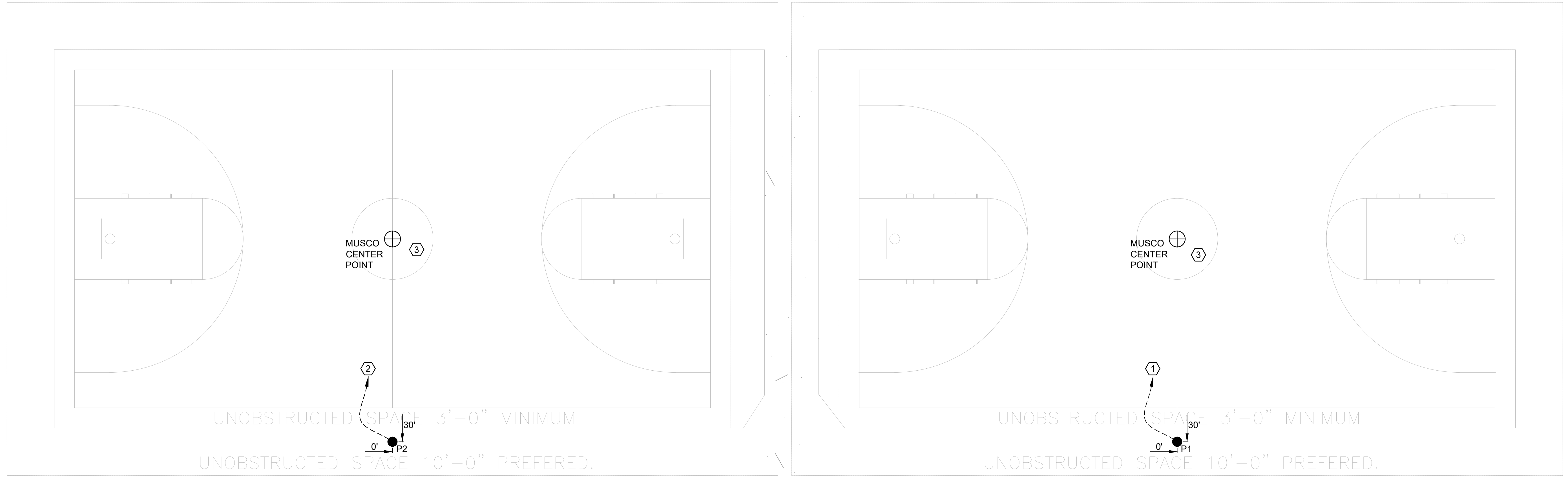
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- KEYED NOTES** 
1. NF-30/3 THRU CONTACTOR 'C1' IN MUSCO CONTROL CABINET #3. (ALTERNATE #1).
 2. NF-30/3 THRU CONTACTOR 'C2' MUSCO CONTROL CABINET #3. (ALTERNATE #1).
 3. NO CONDUITS TO BE ROUTED UNDER PLAYING AREA.

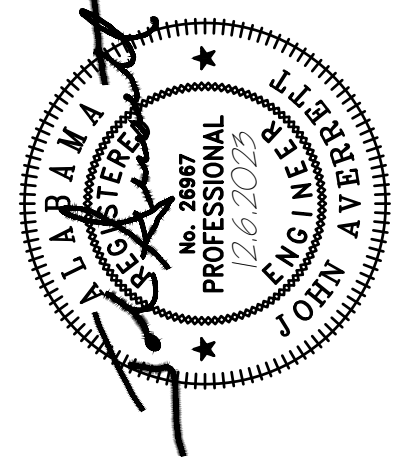


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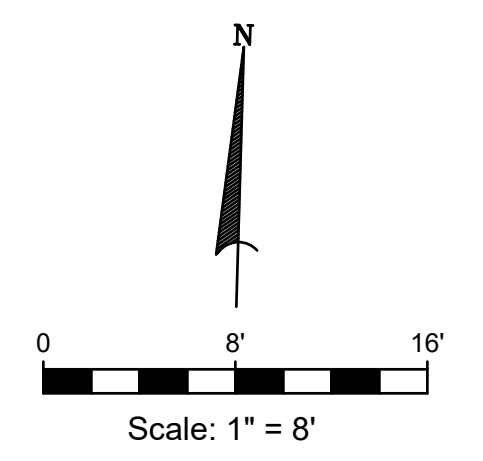
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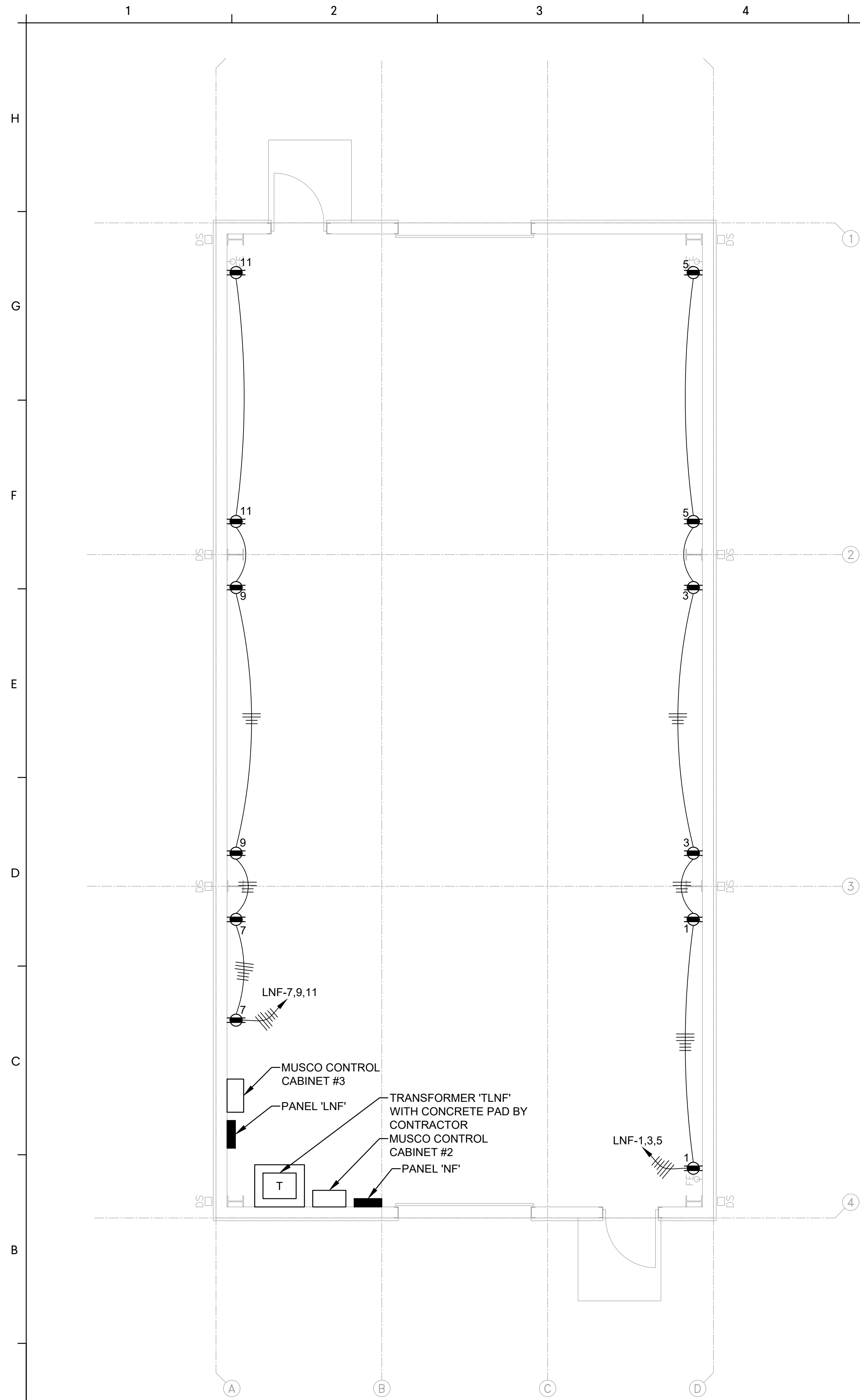
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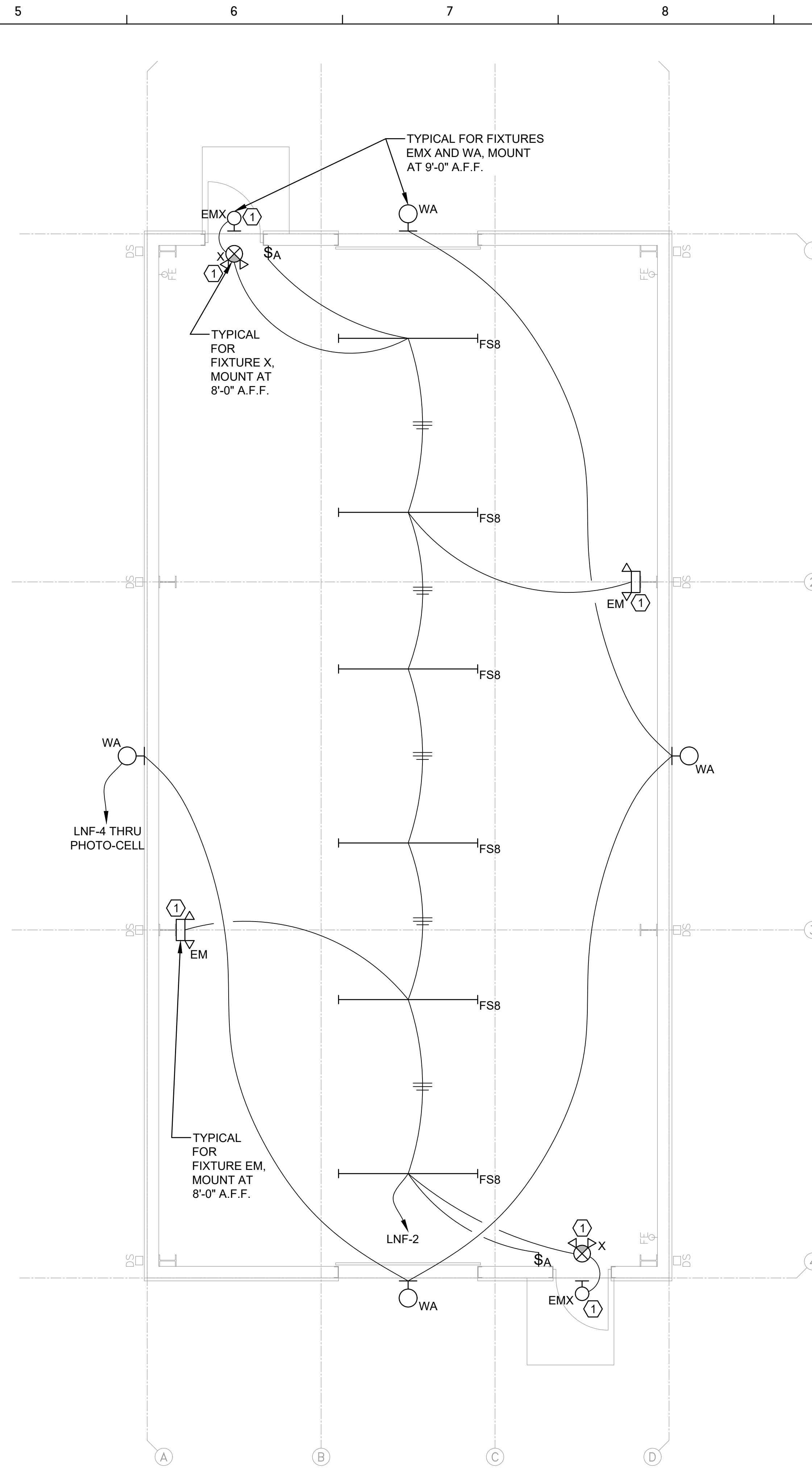
**BASKETBALL COURT
 LIGHTING PLAN**
E0.08



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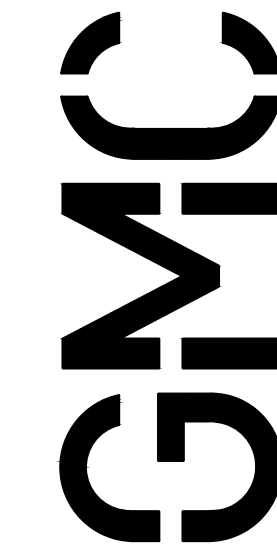


1 UTILITY STORAGE BUILDING - POWER PLAN
 SCALE: 1/4"=1'-0"



2 UTILITY STORAGE BUILDING - LIGHTING PLAN
 SCALE: 1/4"=1'-0"

KEYED NOTES #
 1. CONNECT TO UNSWITCHED HOTLEG SO THAT UNIT WILL OPERATE UPON POWER FAILURE.



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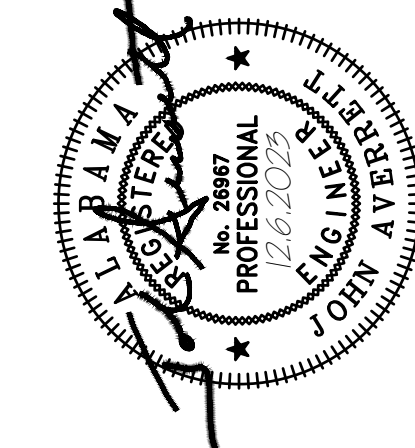
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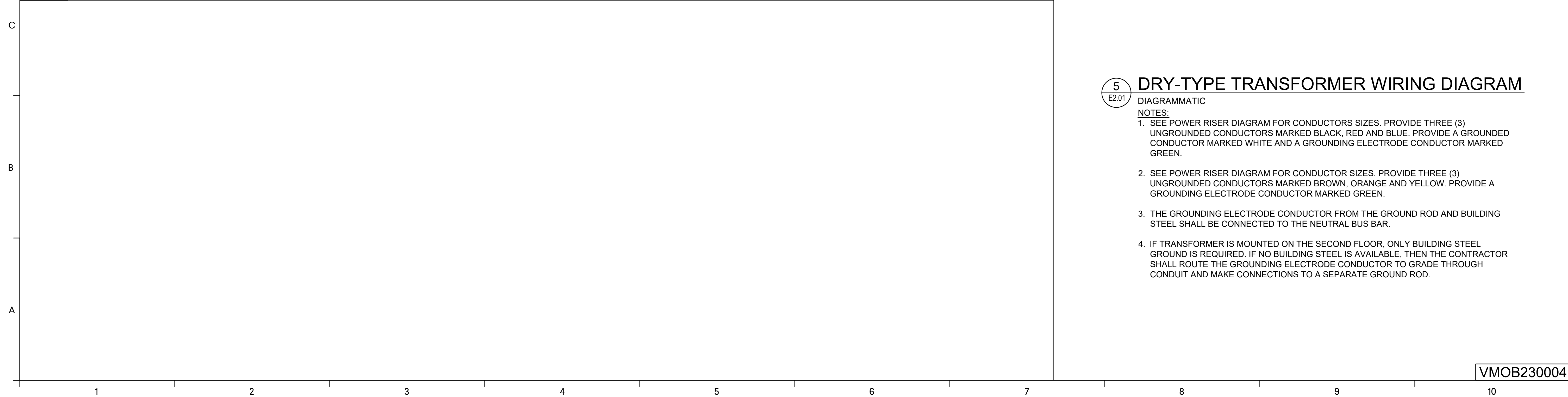
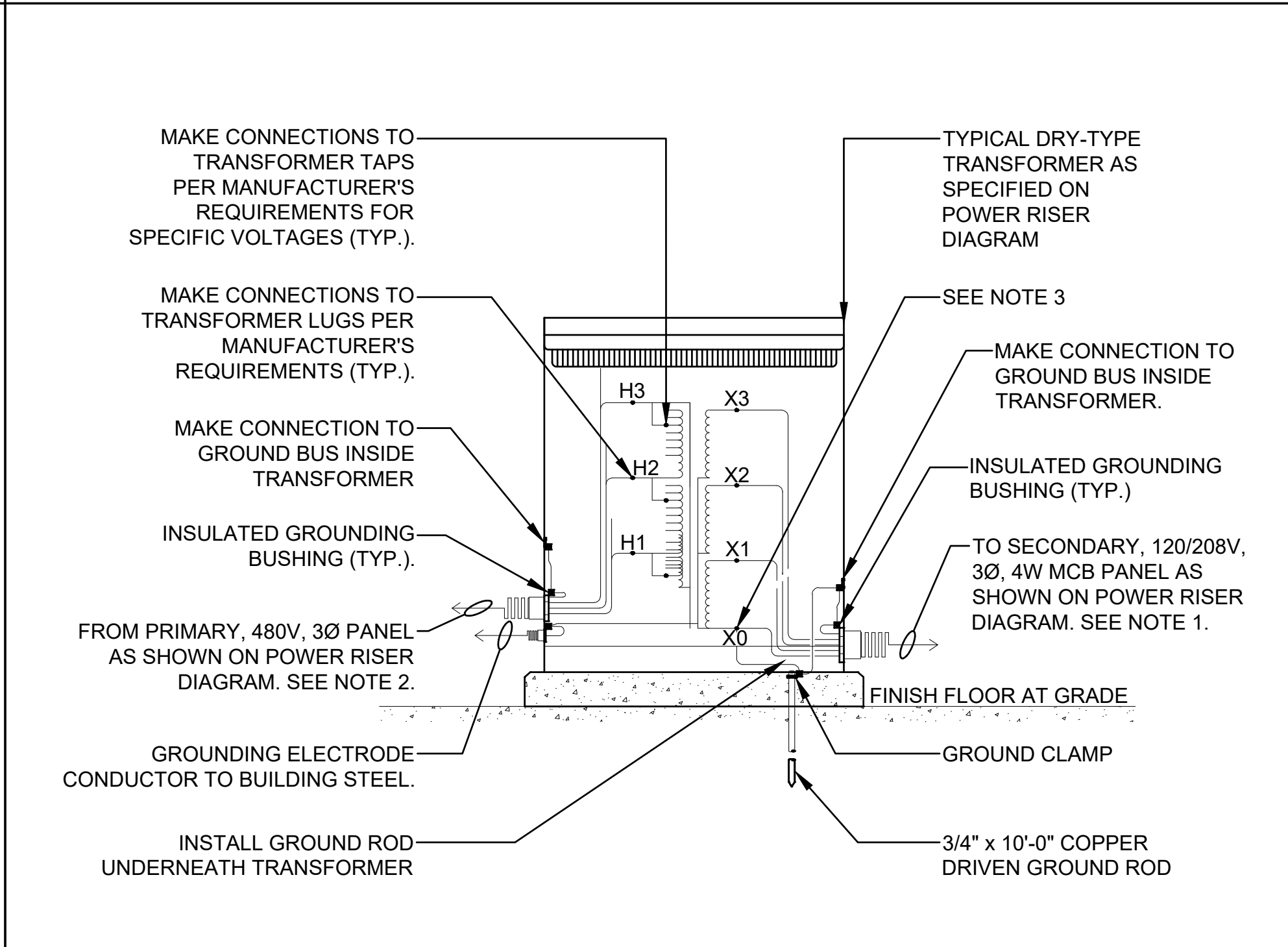
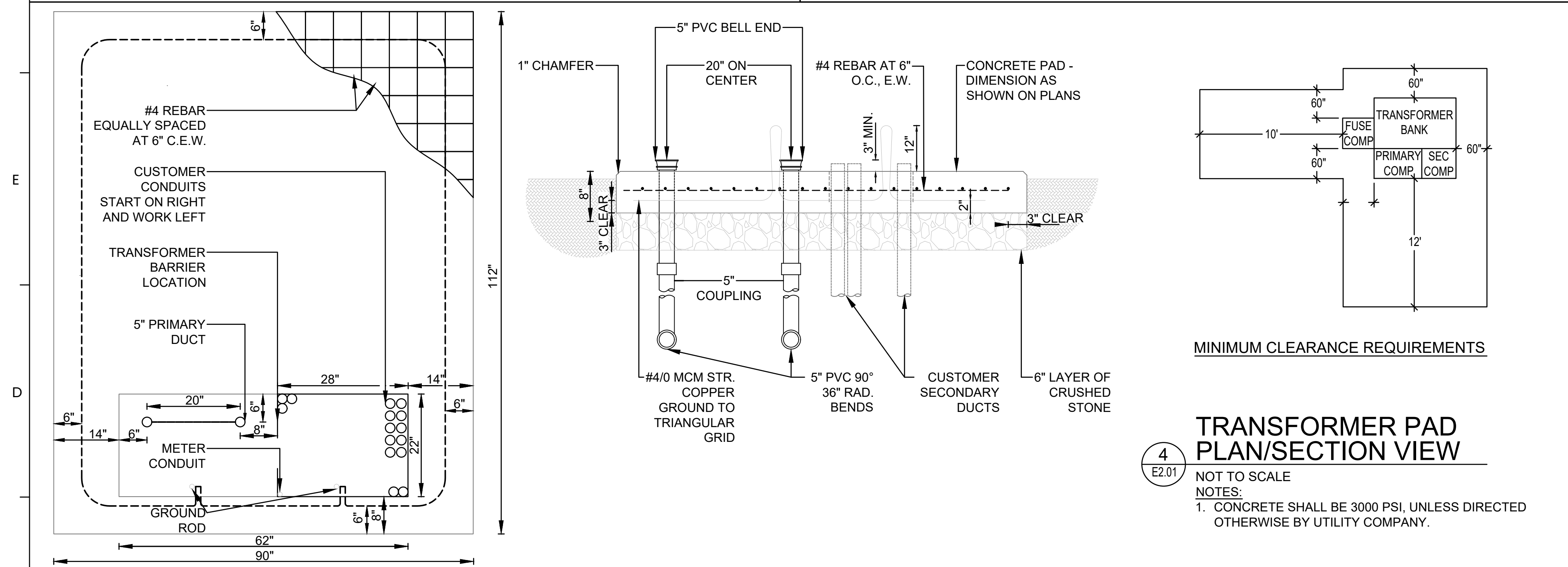
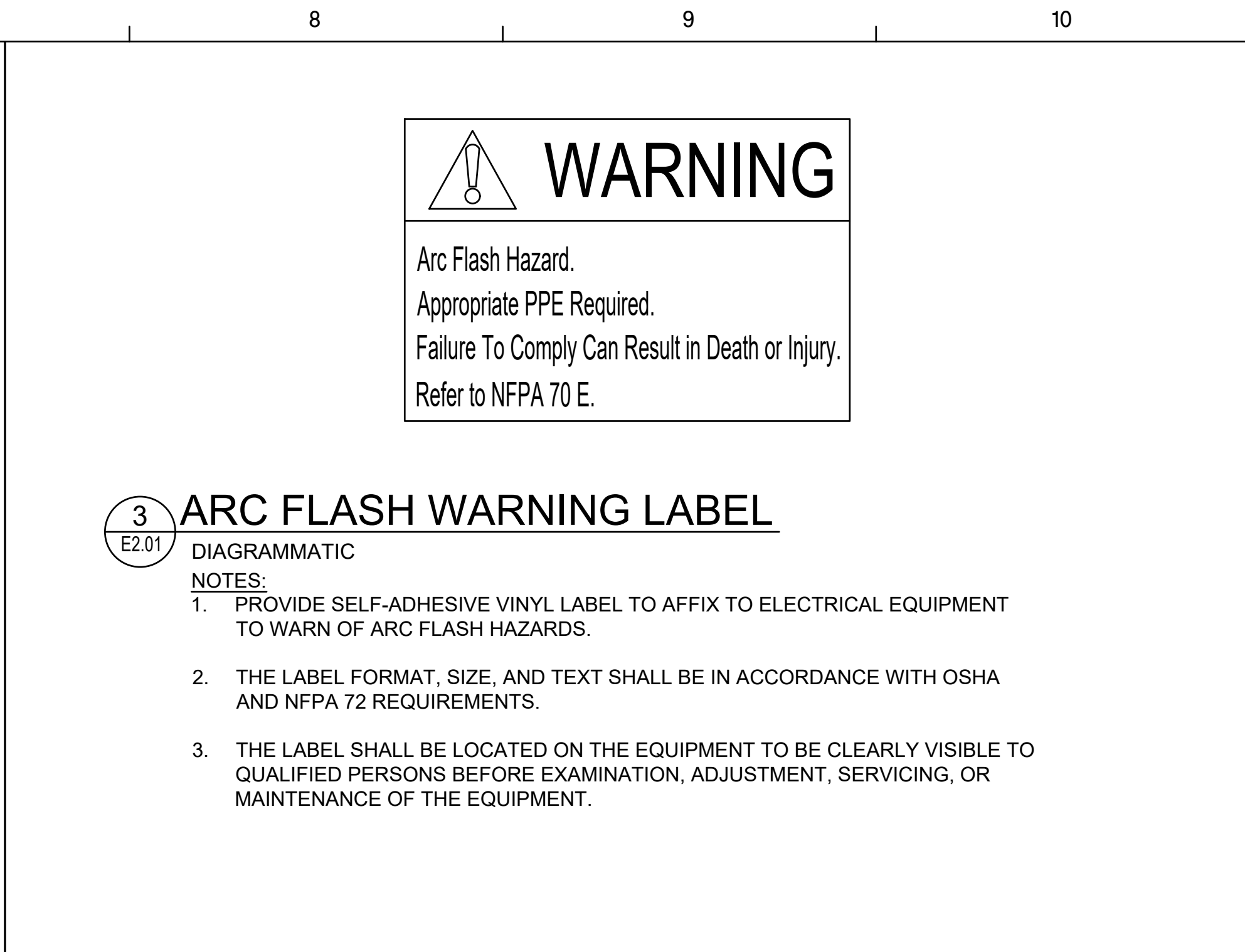
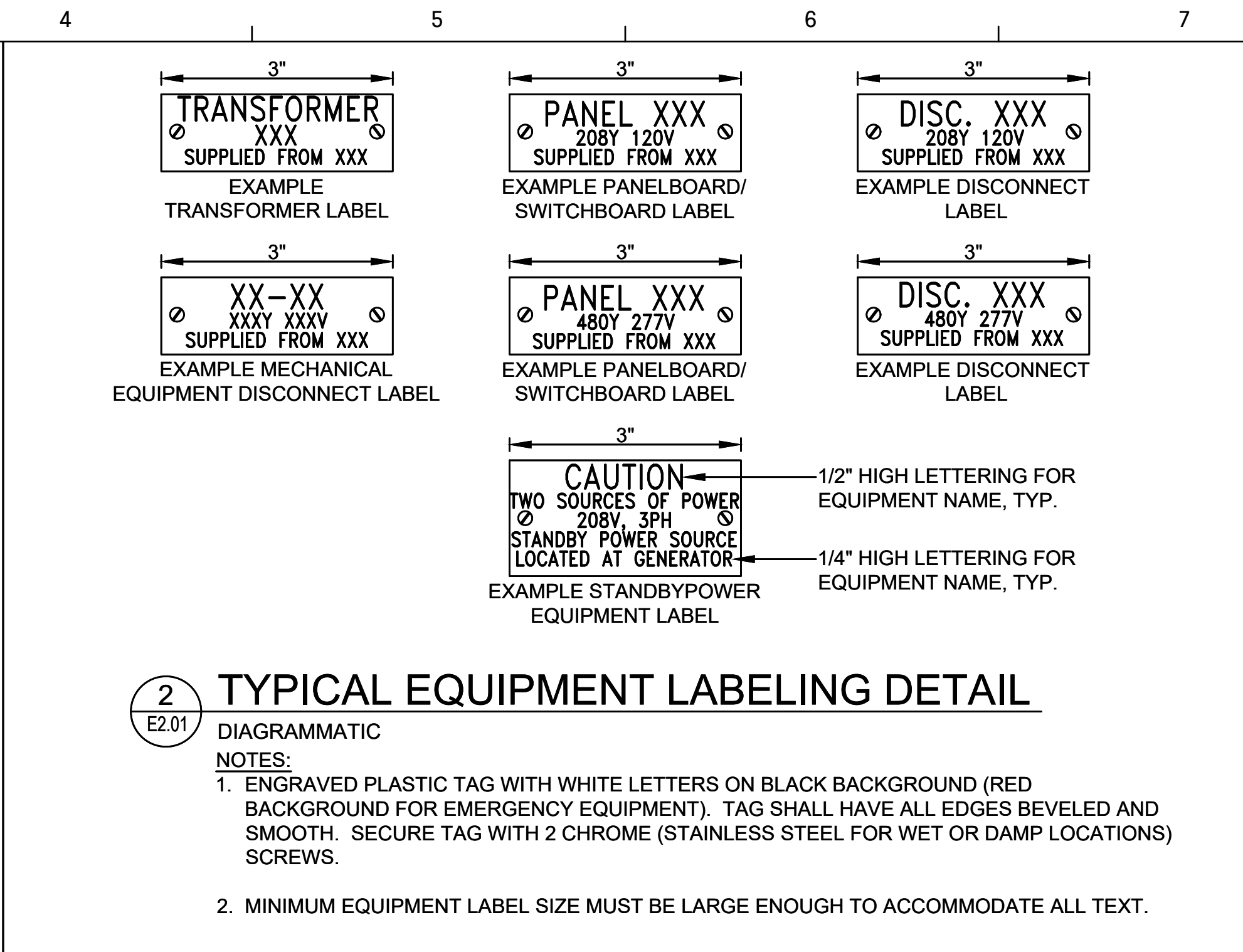
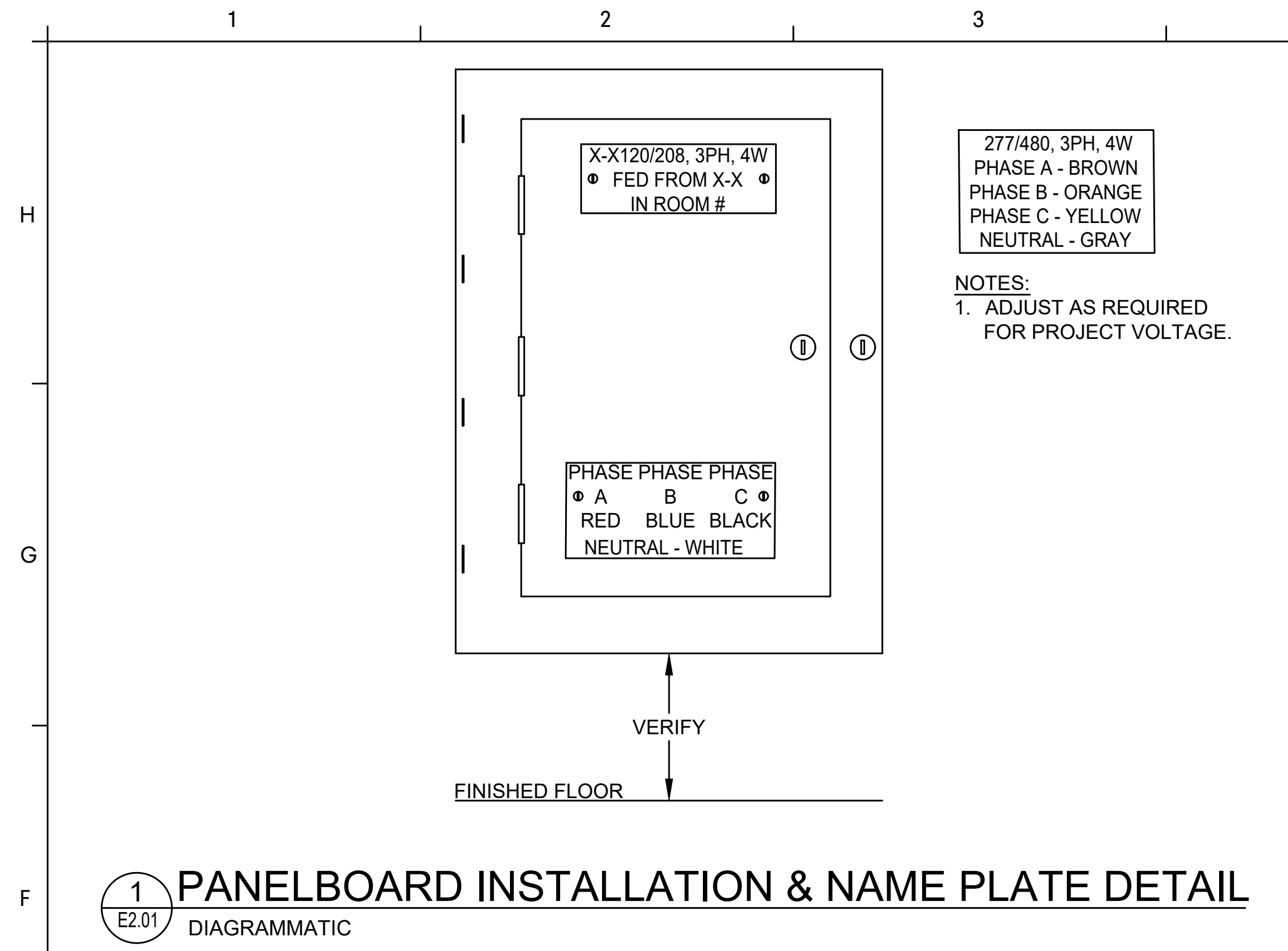
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UTILITY STORAGE
 BUILDING -
 POWER &
 LIGHTING PLAN

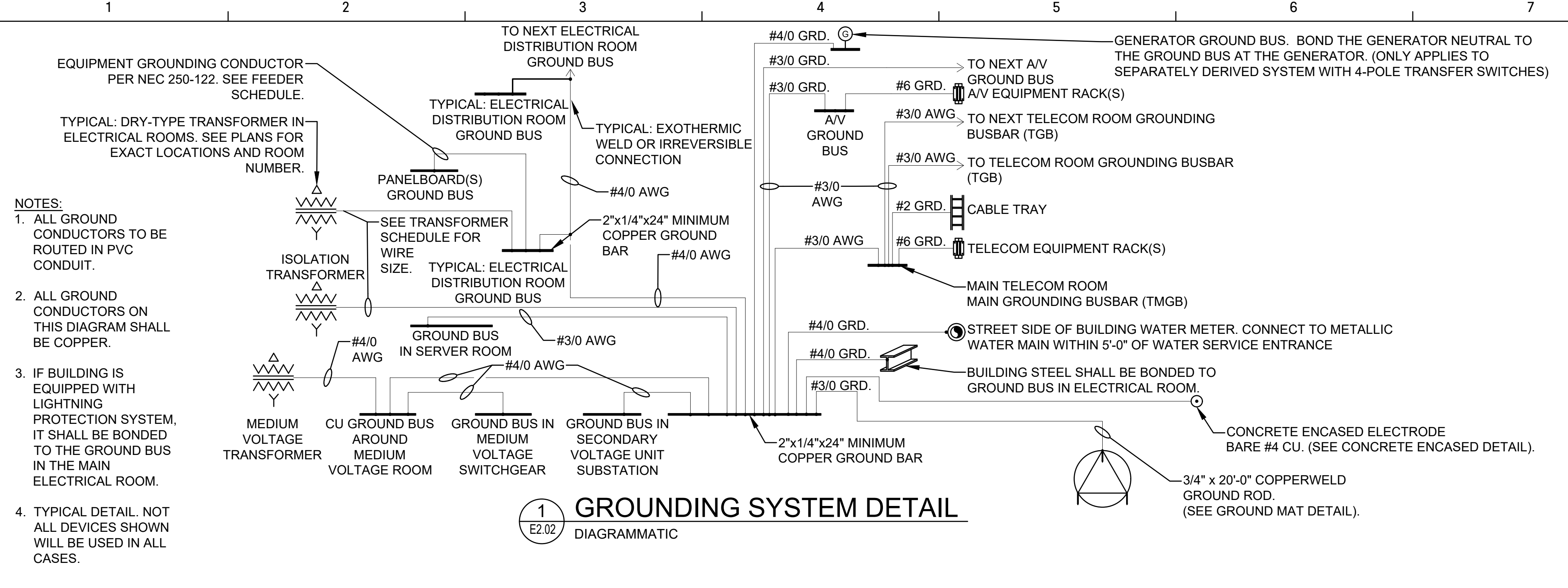
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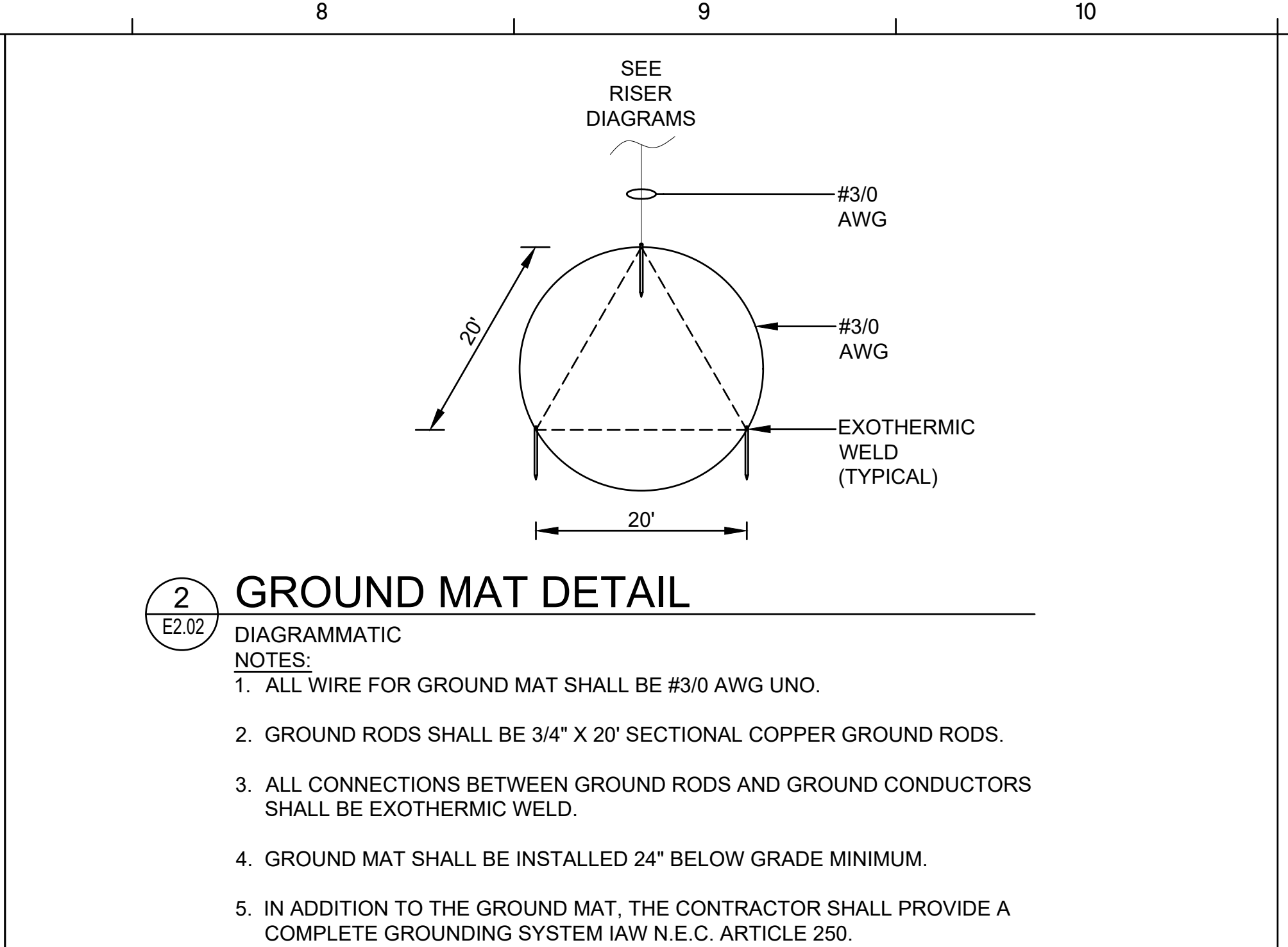
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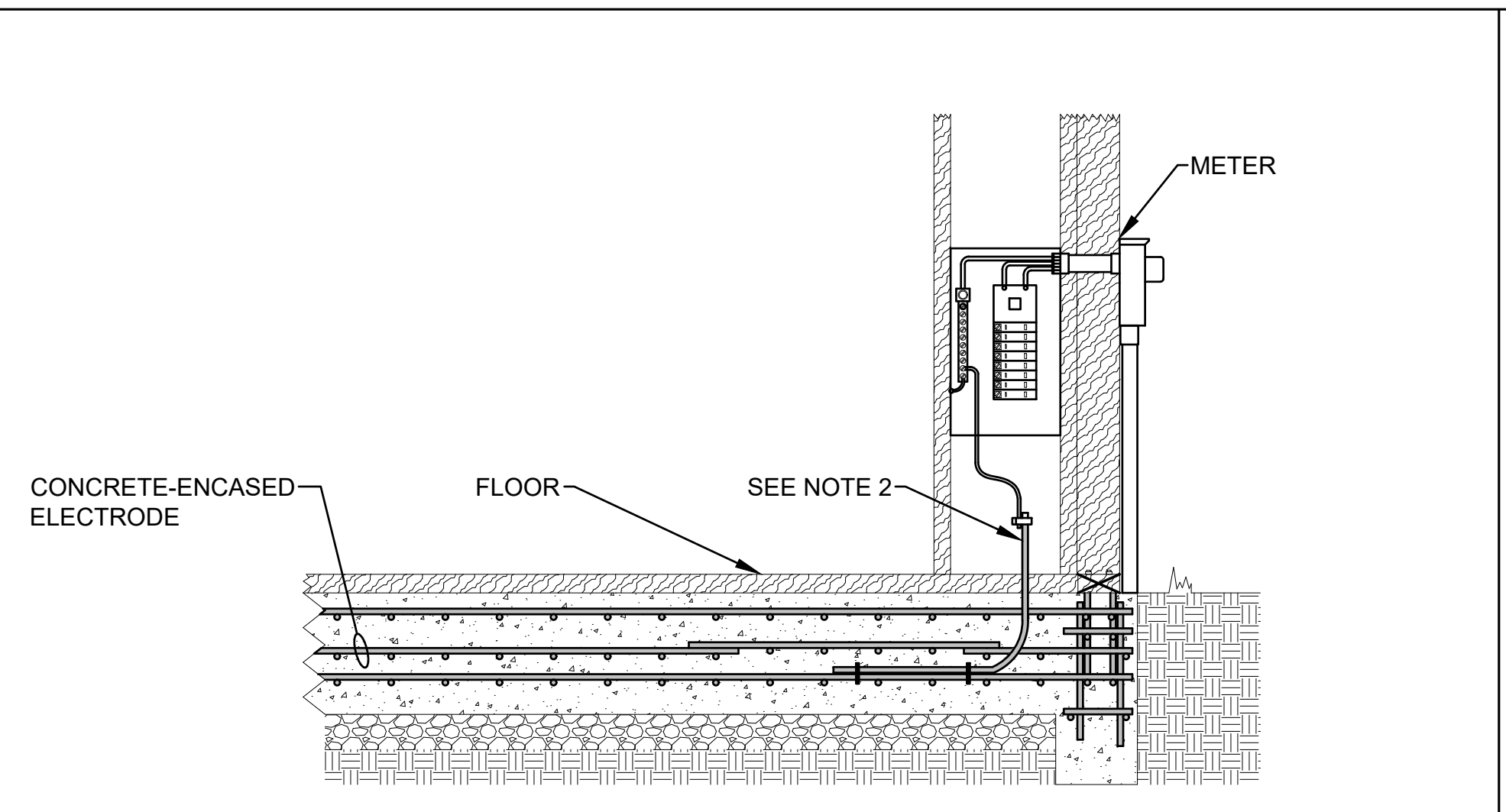
1 GROUNDING SYSTEM DETAIL
E2.02 DIAGRAMMATIC

- NOTES:**
1. ALL GROUND CONDUCTORS TO BE ROUTED IN PVC CONDUIT.
 2. ALL GROUND CONDUCTORS ON THIS DIAGRAM SHALL BE COPPER.
 3. IF BUILDING IS EQUIPPED WITH LIGHTNING PROTECTION SYSTEM, IT SHALL BE BONDED TO THE GROUND BUS IN THE MAIN ELECTRICAL ROOM.
 4. TYPICAL DETAIL. NOT ALL DEVICES SHOWN WILL BE USED IN ALL CASES.



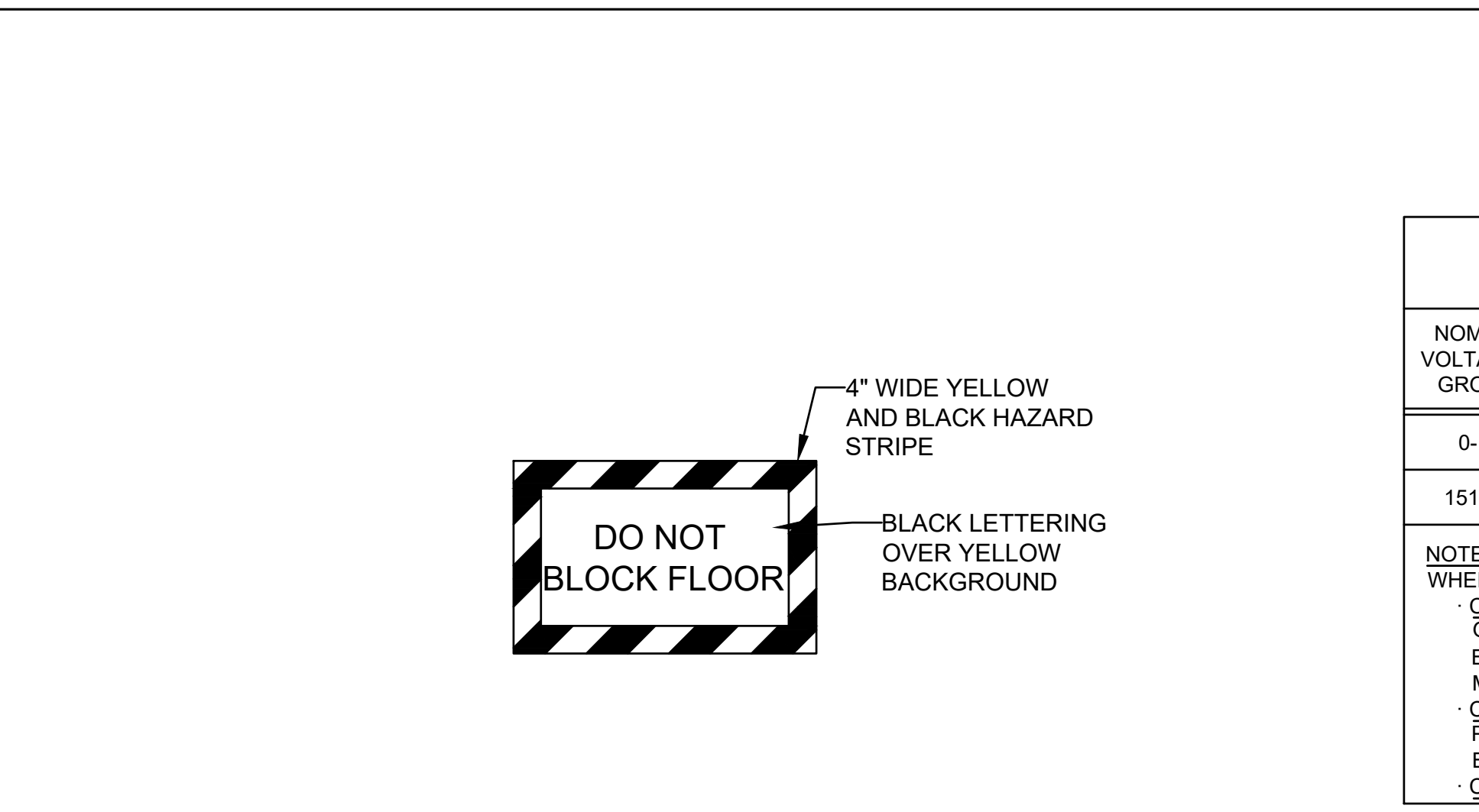
2 GROUND MAT DETAIL
E2.02 DIAGRAMMATIC

- NOTES:**
1. ALL WIRE FOR GROUND MAT SHALL BE #3/0 AWG UNO.
 2. GROUND RODS SHALL BE 3/4" X 20' SECTIONAL COPPER GROUND RODS.
 3. ALL CONNECTIONS BETWEEN GROUND RODS AND GROUND CONDUCTORS SHALL BE EXOTHERMIC WELD.
 4. GROUND MAT SHALL BE INSTALLED 24" BELOW GRADE MINIMUM.
 5. IN ADDITION TO THE GROUND MAT, THE CONTRACTOR SHALL PROVIDE A COMPLETE GROUNDING SYSTEM IAW N.E.C. ARTICLE 250.



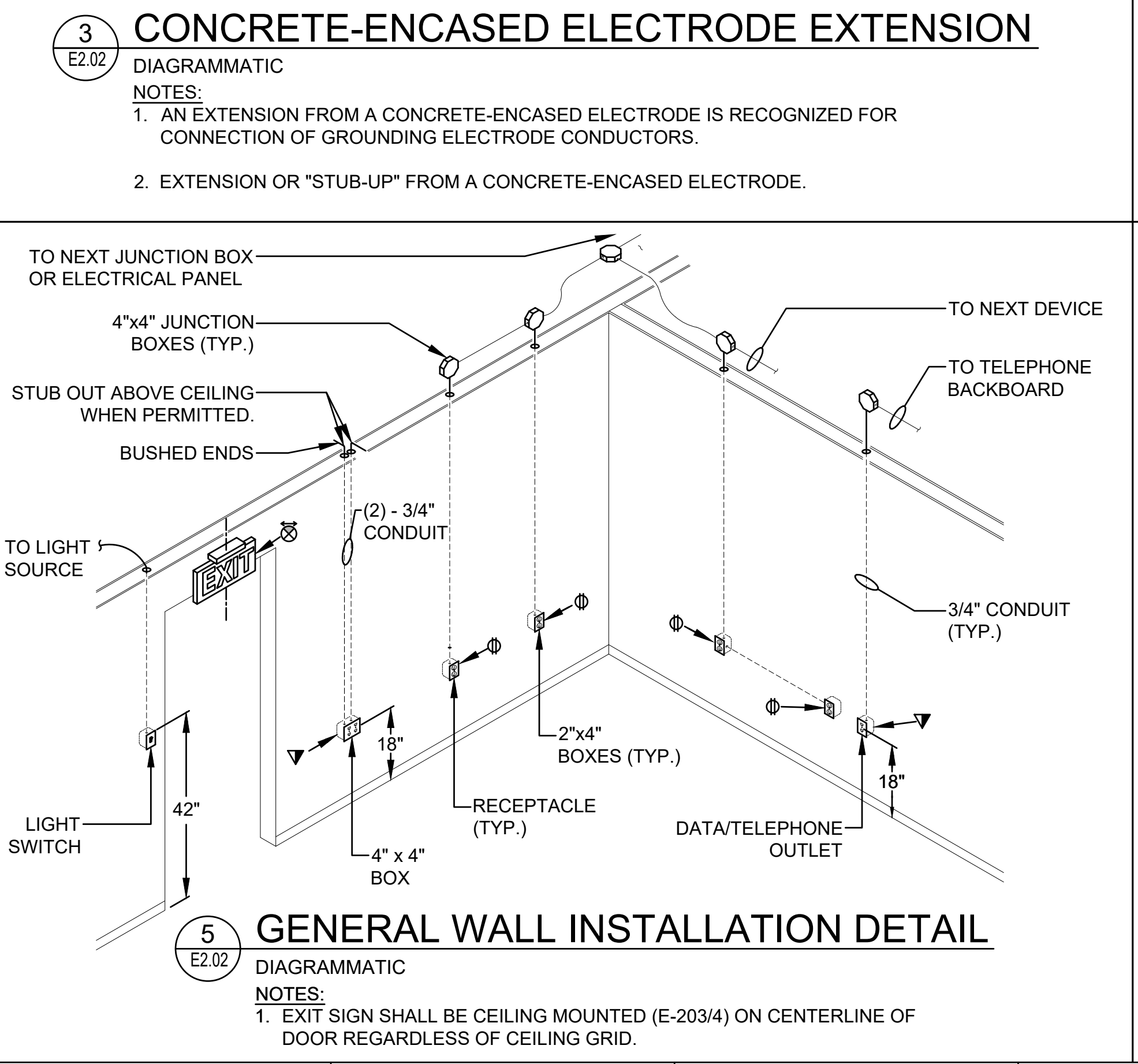
3 CONCRETE-ENCASED ELECTRODE EXTENSION
E2.02 DIAGRAMMATIC

- NOTES:**
1. AN EXTENSION FROM A CONCRETE-ENCASED ELECTRODE IS RECOGNIZED FOR CONNECTION OF GROUNDING ELECTRODE CONDUCTORS.
 2. EXTENSION OR "STUB-UP" FROM A CONCRETE-ENCASED ELECTRODE.



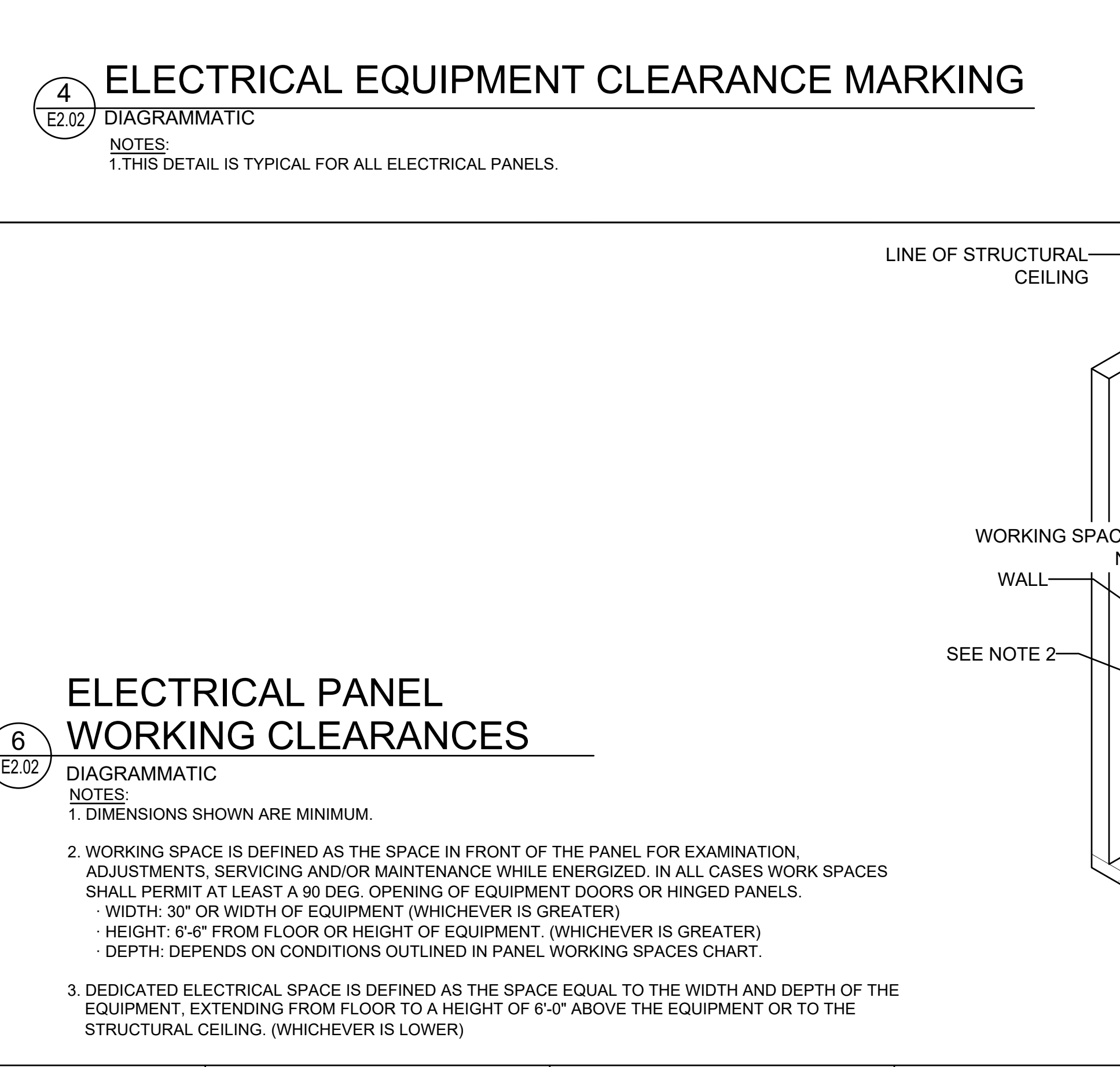
4 ELECTRICAL EQUIPMENT CLEARANCE MARKING
E2.02 DIAGRAMMATIC

- NOTES:**
1. THIS DETAIL IS TYPICAL FOR ALL ELECTRICAL PANELS.



5 GENERAL WALL INSTALLATION DETAIL
E2.02 DIAGRAMMATIC

- NOTES:**
1. EXIT SIGN SHALL BE CEILING MOUNTED (E-203/4) ON CENTERLINE OF DOOR REGARDLESS OF CEILING GRID.



6 ELECTRICAL PANEL WORKING CLEARANCES
E2.02 DIAGRAMMATIC

- NOTES:**
1. DIMENSIONS SHOWN ARE MINIMUM.
 2. WORKING SPACE IS DEFINED AS THE SPACE IN FRONT OF THE PANEL FOR EXAMINATION, ADJUSTMENTS, SERVICING AND/OR MAINTENANCE WHILE ENERGIZED. IN ALL CASES WORK SPACES SHALL PERMIT AT LEAST A 90 DEG. OPENING OF EQUIPMENT DOORS OR HINGED PANELS.
 - WIDTH: 30" OR WIDTH OF EQUIPMENT (WHICHEVER IS GREATER)
 - HEIGHT: 6'-6" FROM FLOOR OR HEIGHT OF EQUIPMENT, (WHICHEVER IS GREATER)
 - DEPTH: DEPENDS ON CONDITIONS OUTLINED IN PANEL WORKING SPACES CHART.
 3. DEDICATED ELECTRICAL SPACE IS DEFINED AS THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT, EXTENDING FROM FLOOR TO A HEIGHT OF 6'-0" ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING, (WHICHEVER IS LOWER)

NOMINAL VOLTAGE TO GROUND	MINIMUM CLEAR DISTANCE		
	CONDITION 1	CONDITION 2	CONDITION 3
0-150	3'-0"	3'-0"	3'-0"
151-600	3'-0"	3'-6"	4'-0"

NOTE:
WHERE THE CONDITIONS ARE AS FOLLOWS:
CONDITION 1 - EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE THAT ARE EFFECTIVELY GUARDED BY INSULATING MATERIALS.
CONDITION 2 - EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE. CONCRETE, BRICK, OR TILE WALLS SHALL BE CONSIDERED AS GROUNDED.
CONDITION 3 - EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE.

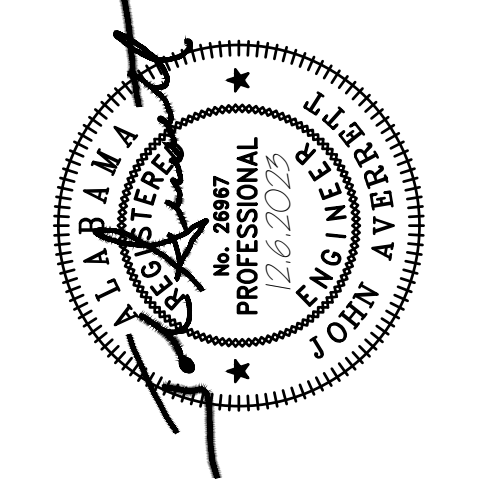
PANEL WORKING SPACES



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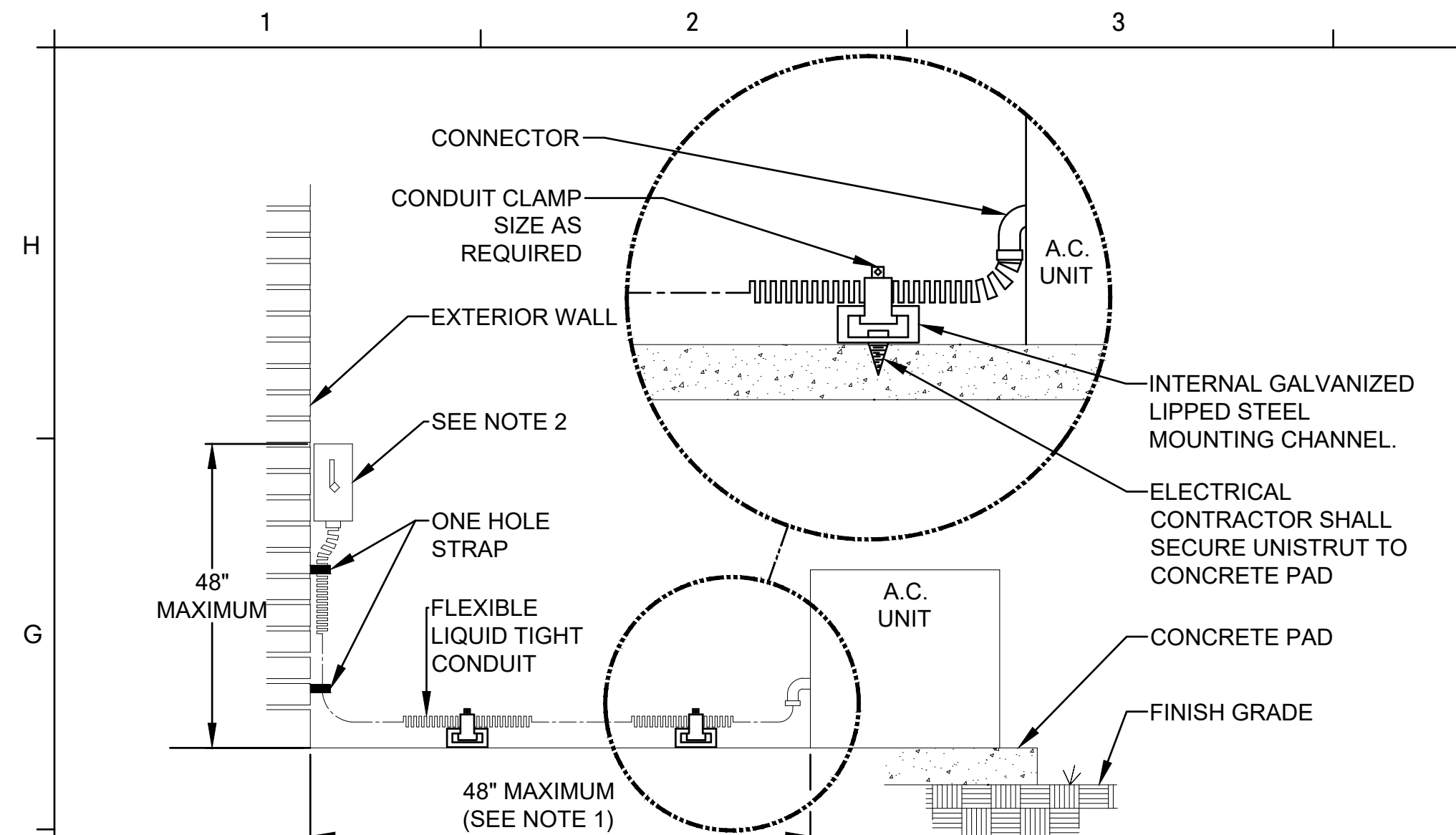
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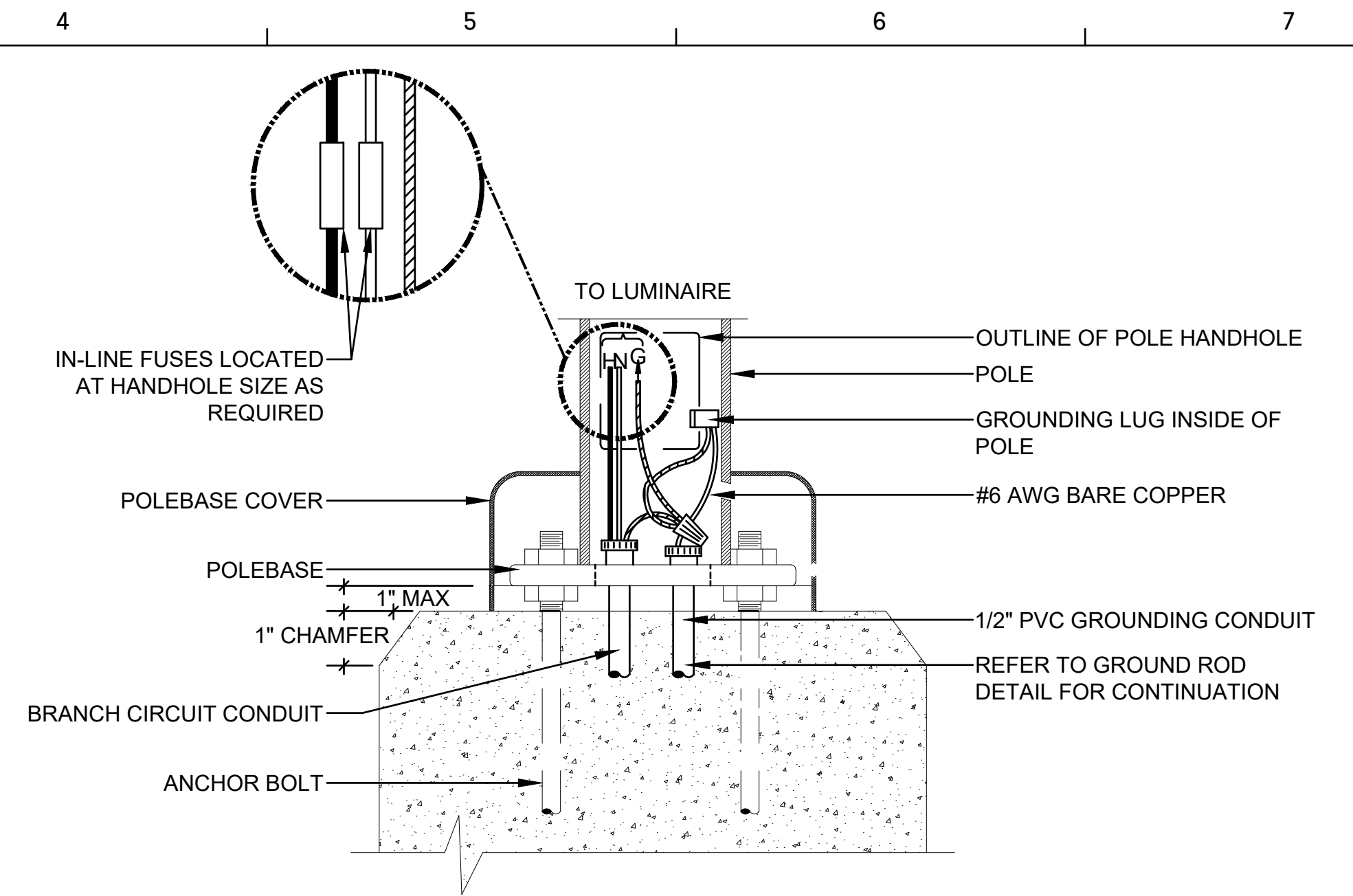
ELECTRICAL DETAILS

E2.02

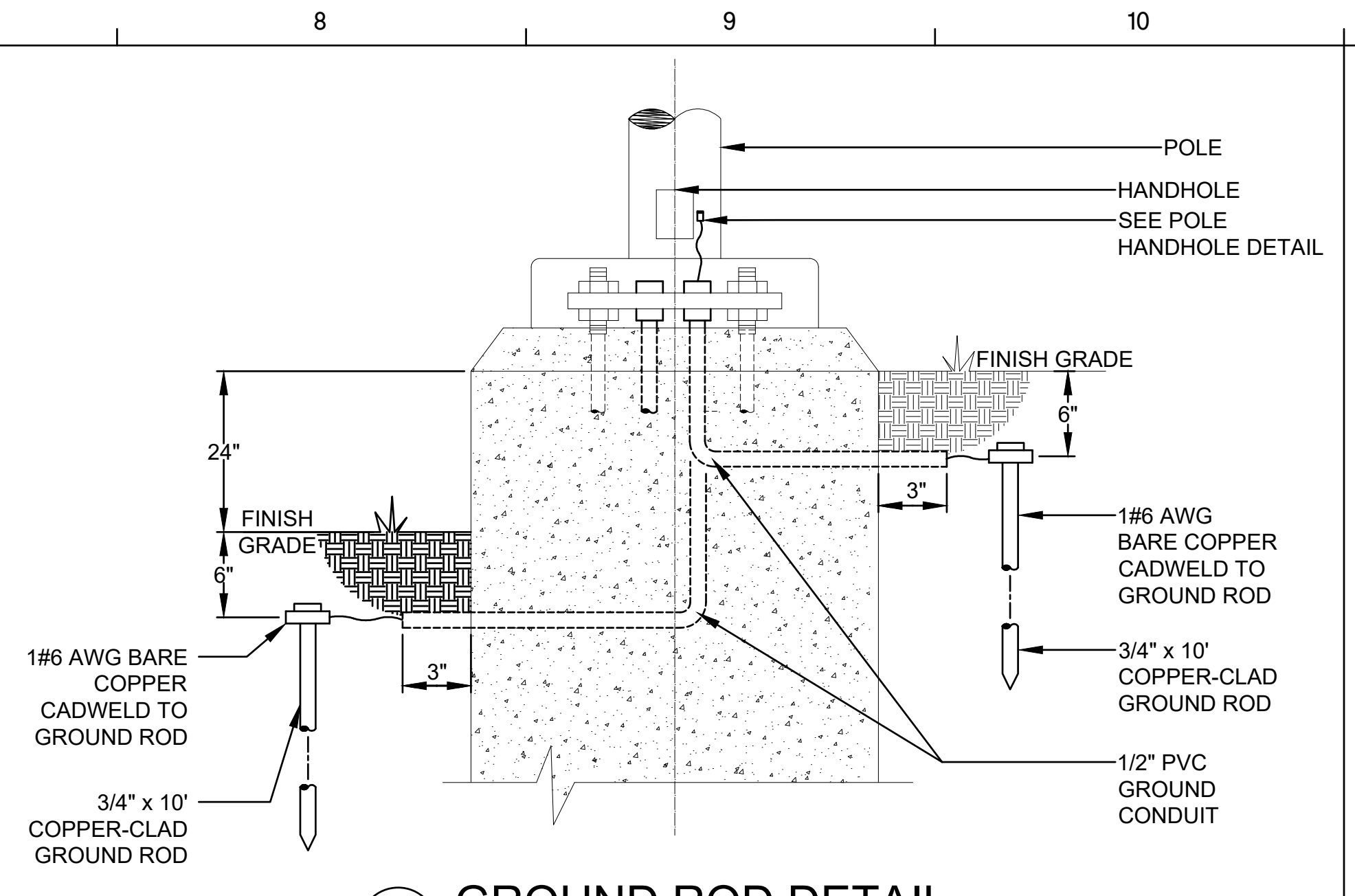
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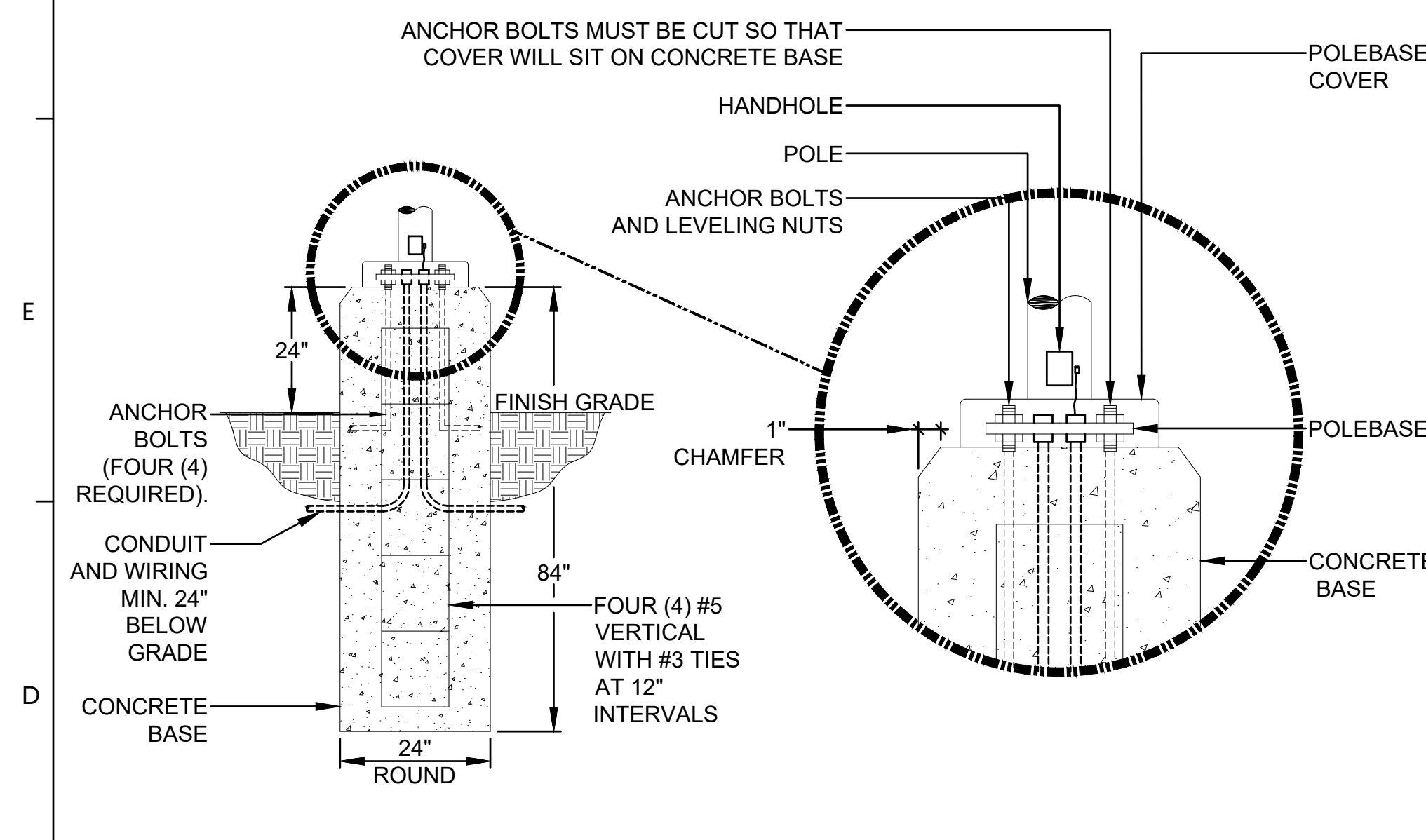
1 TYP. MECH. UNIT CONNECTION DETAIL
 DIAGRAMMATIC
 NOTES:
 1. FOR DISTANCES GREATER THAN 48", CONDUIT TO BE ROUTED BELOW GRADE TO WITHIN 6" OF MECHANICAL UNIT, STUB-UP WITH RIGID ELBOW THRU CONCRETE PAD, PROVIDE FLEXIBLE CONNECTION FROM ELBOW TO MECHANICAL UNIT, WITH CONNECTION MADE AT UNIT AS SHOWN ABOVE.
 2. DISCONNECT SWITCH OR PANEL AS SHOWN ON DRAWINGS.



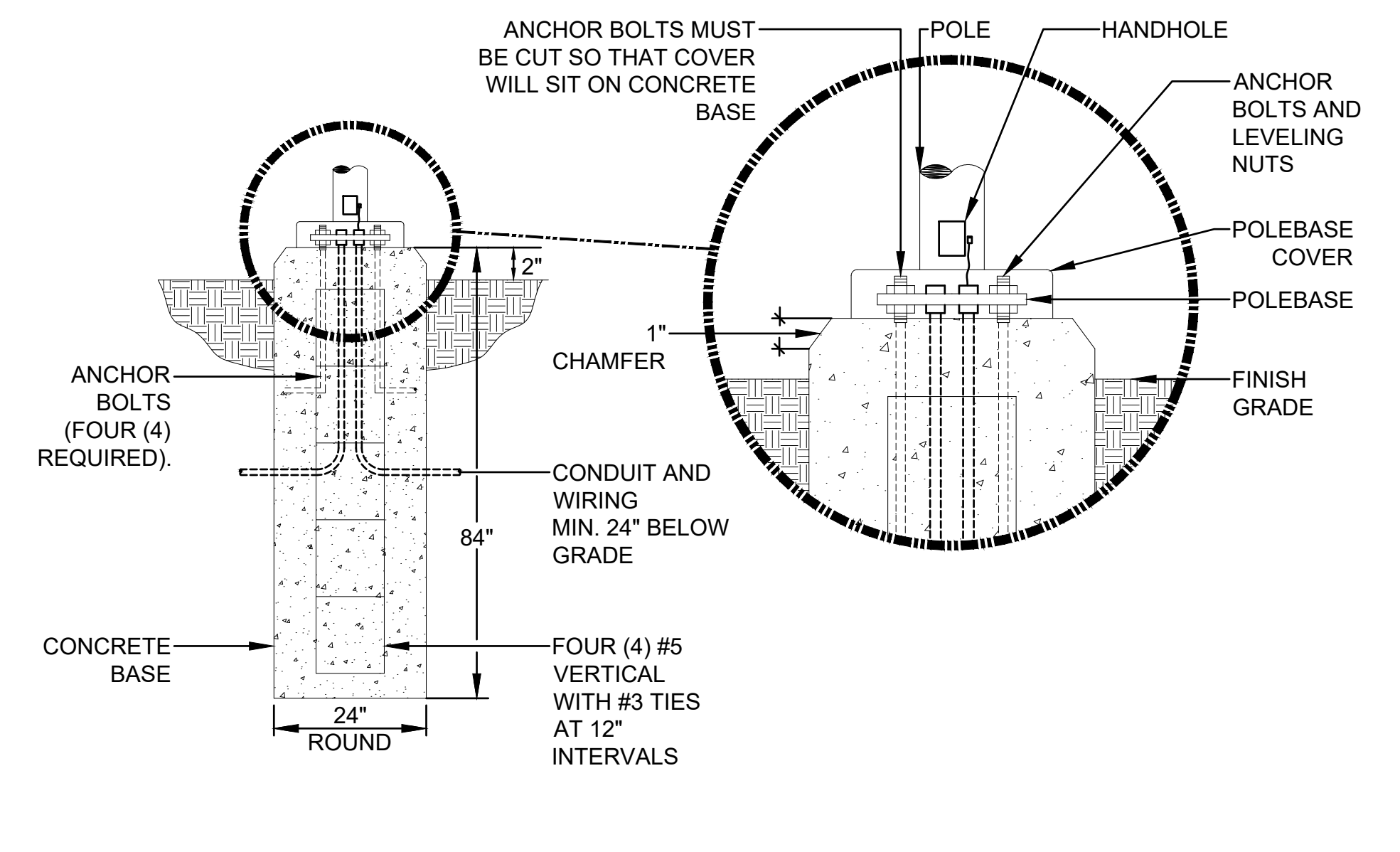
2 POLE HANDHOLE DETAIL
 DIAGRAMMATIC



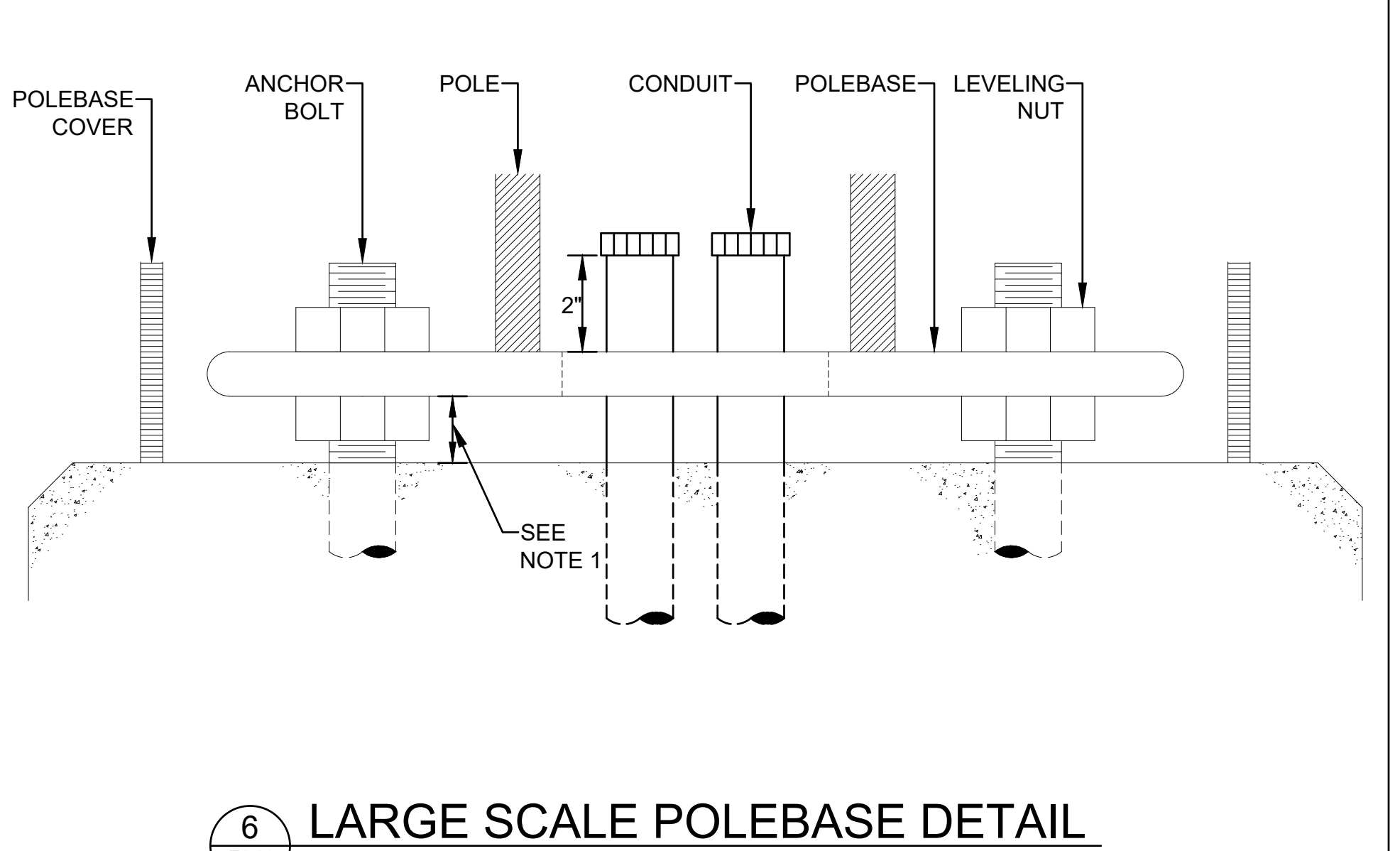
3 GROUND ROD DETAIL
 DIAGRAMMATIC
 NOTE:
 1. DETAIL TYPICAL FOR ALL STANDARDS.



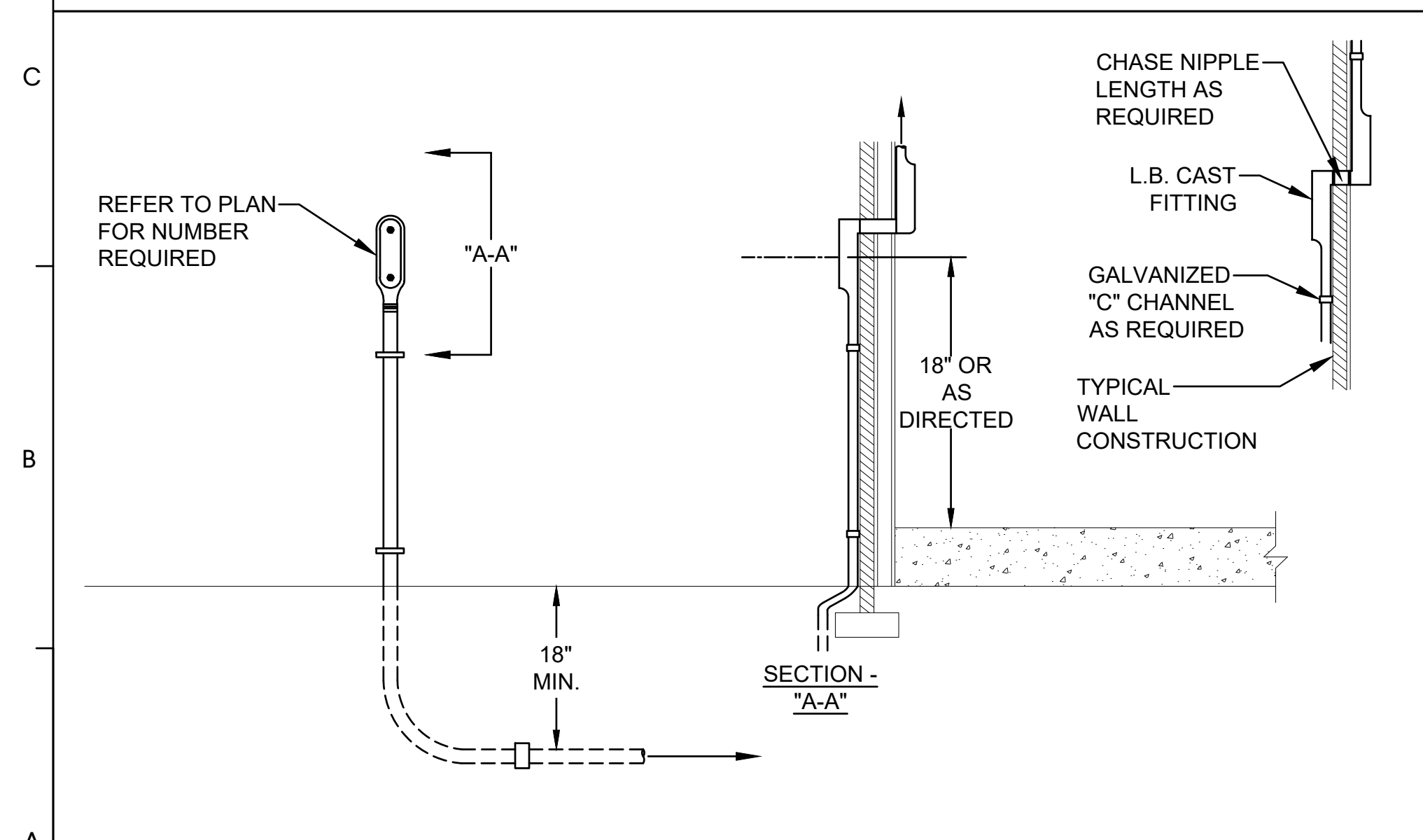
4 POLEBASE DETAIL - ABOVE GRADE
 DIAGRAMMATIC



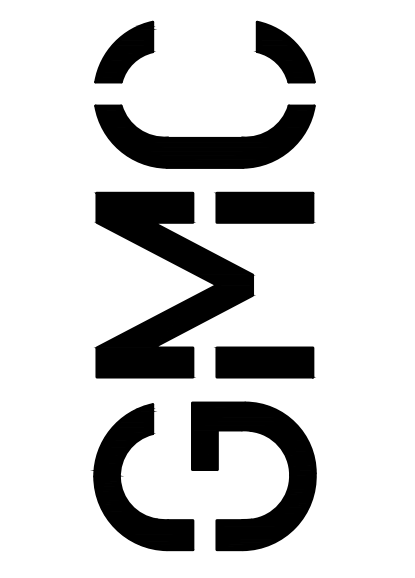
5 POLEBASE DETAIL - FIXTURE @ GRADE
 DIAGRAMMATIC



6 LARGE SCALE POLEBASE DETAIL
 DIAGRAMMATIC
 NOTE:
 1. MOUNT AS CLOSE AS POSSIBLE TO CONCRETE BASE (NOT TO EXCEED 1").



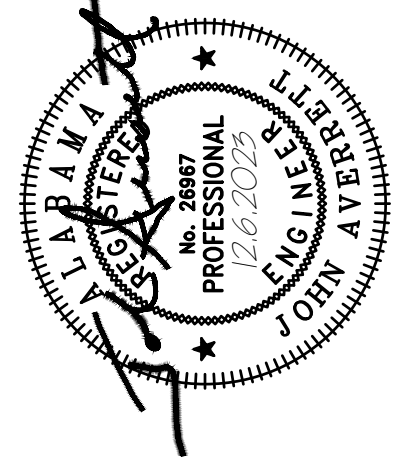
7 SYSTEMS CONDUIT ENTRY DETAIL
 DIAGRAMMATIC



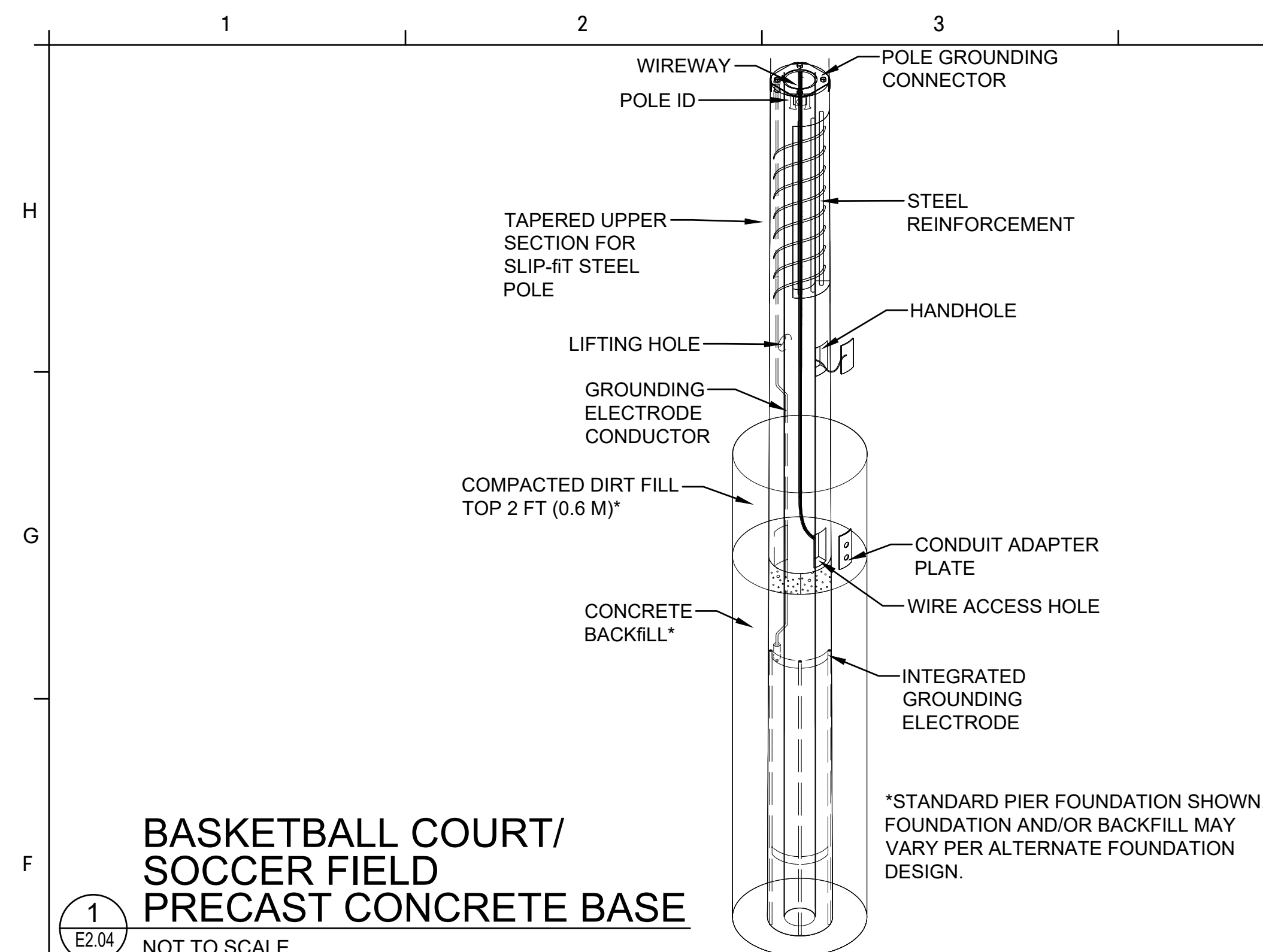
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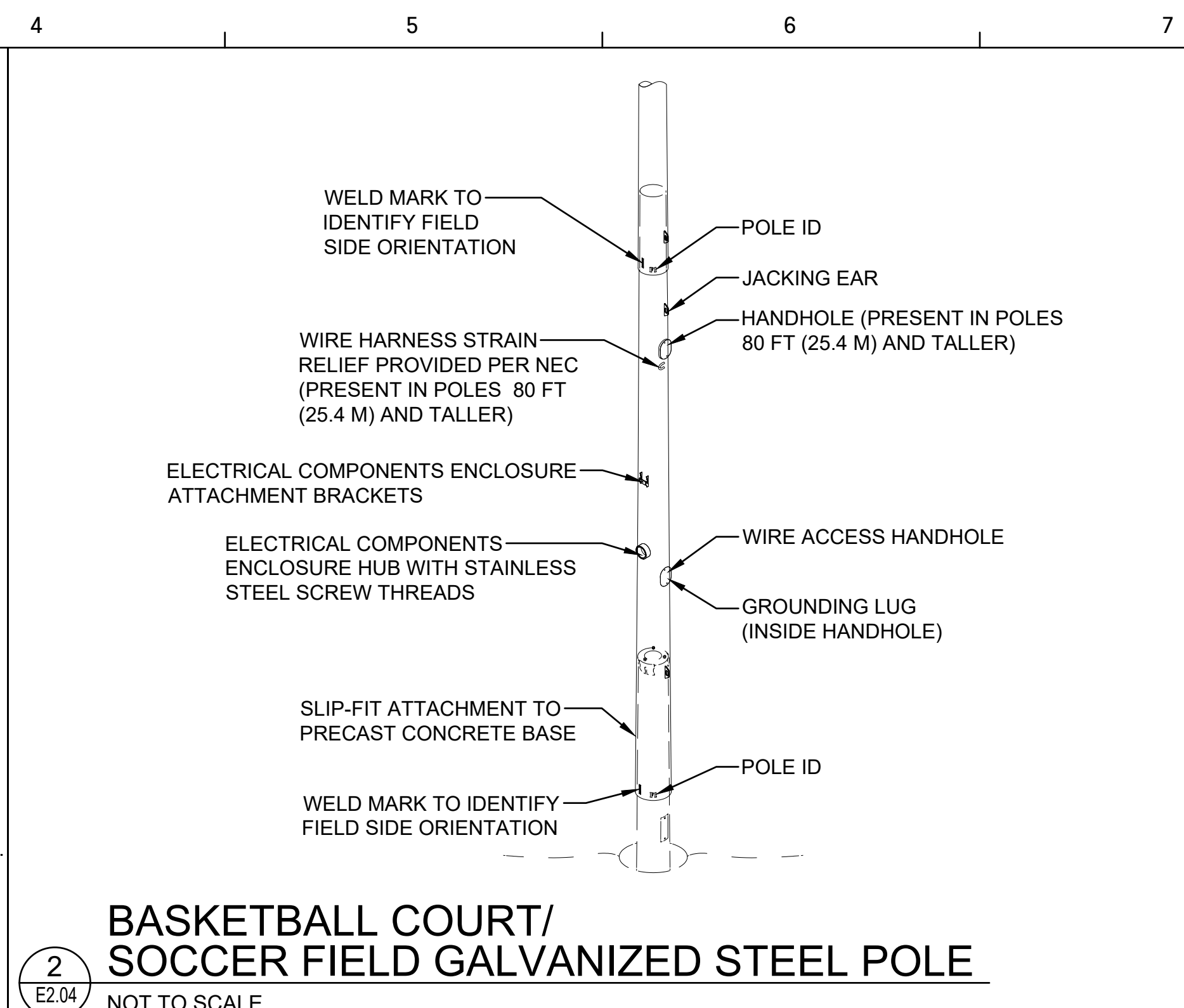
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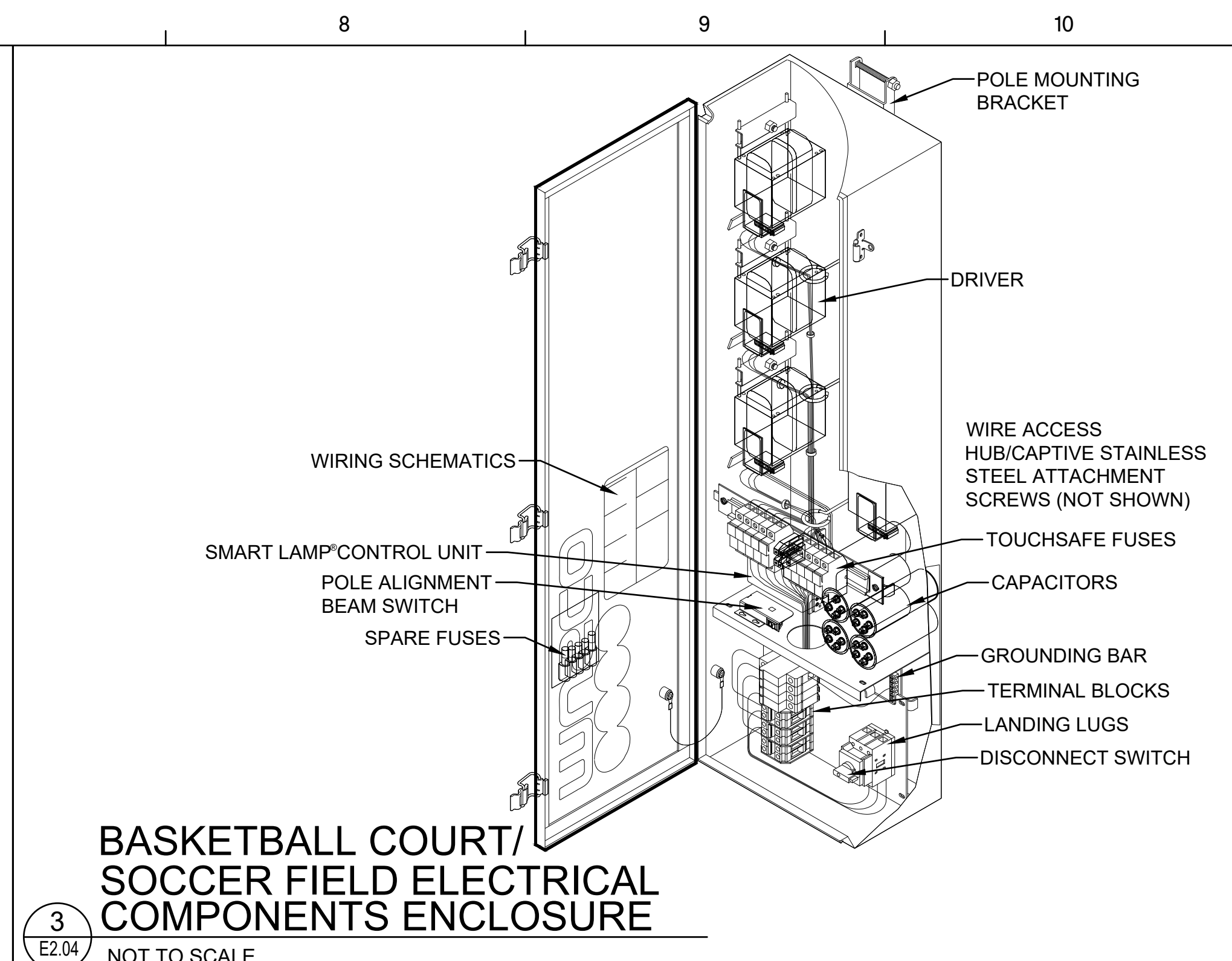
ELECTRICAL DETAILS
E2.03



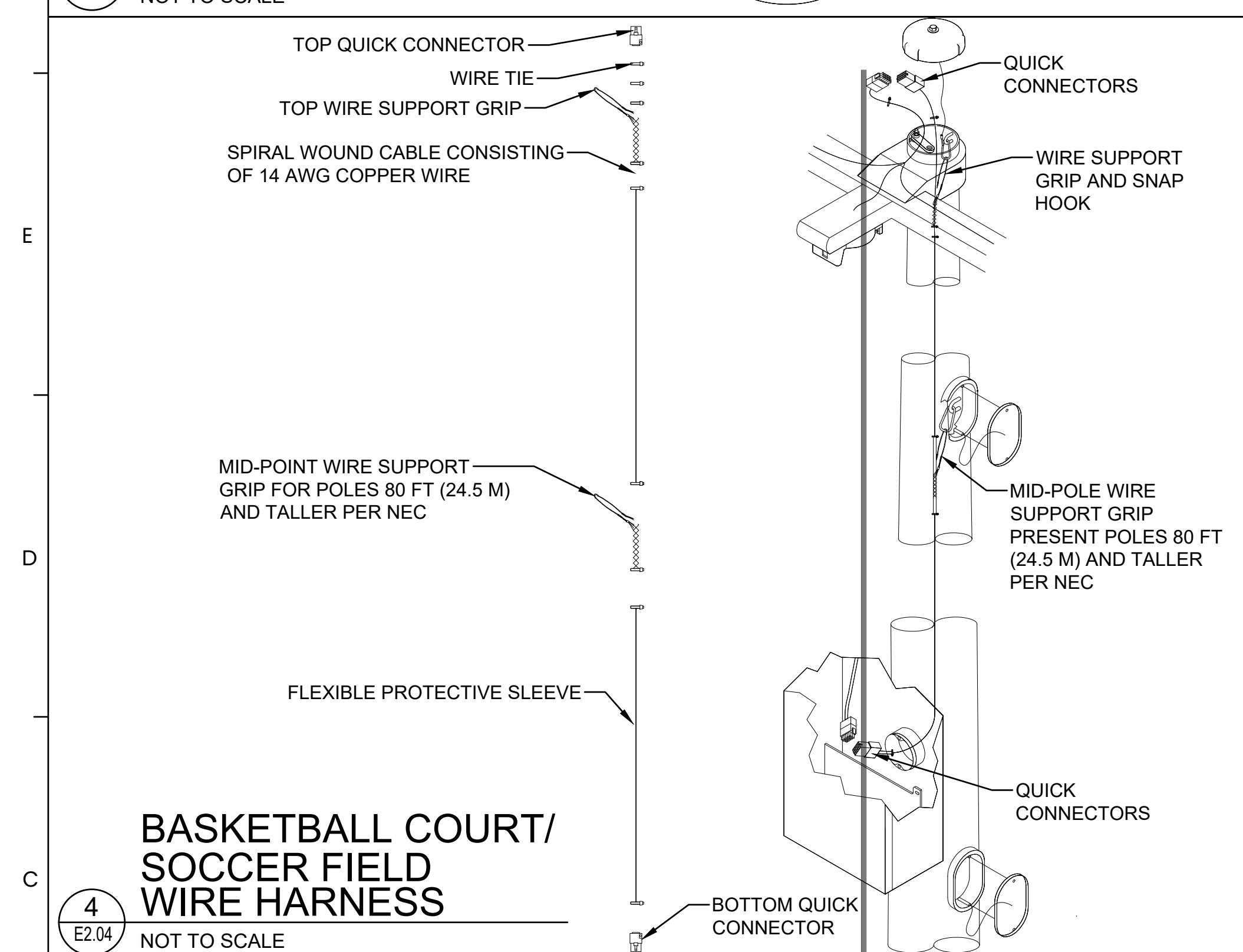
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E2.04
BASKETBALL COURT/
SOCCER FIELD
PRECAST CONCRETE BASE
NOT TO SCALE



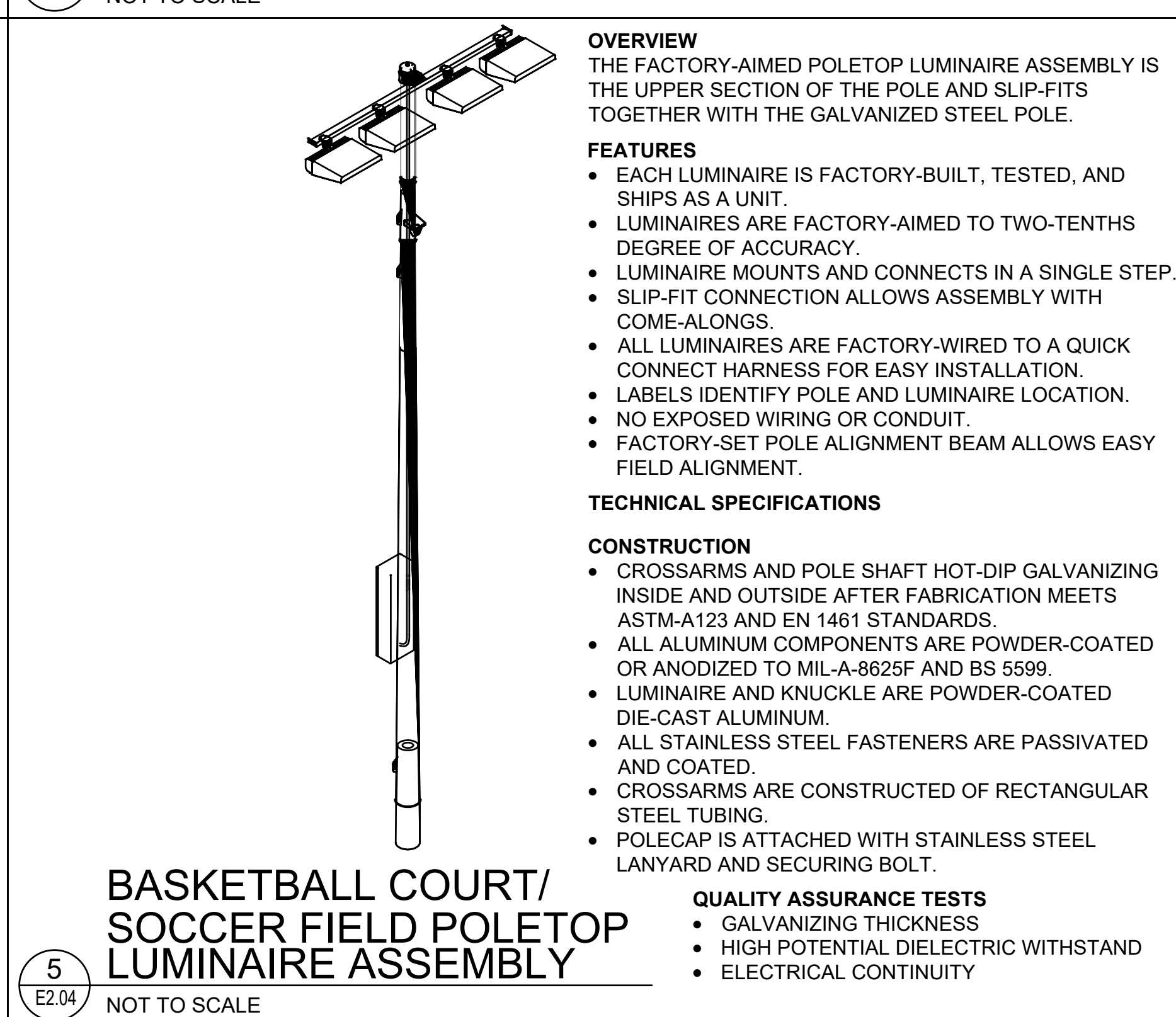
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BASKETBALL COURT/
SOCCER FIELD GALVANIZED STEEL POLE
NOT TO SCALE



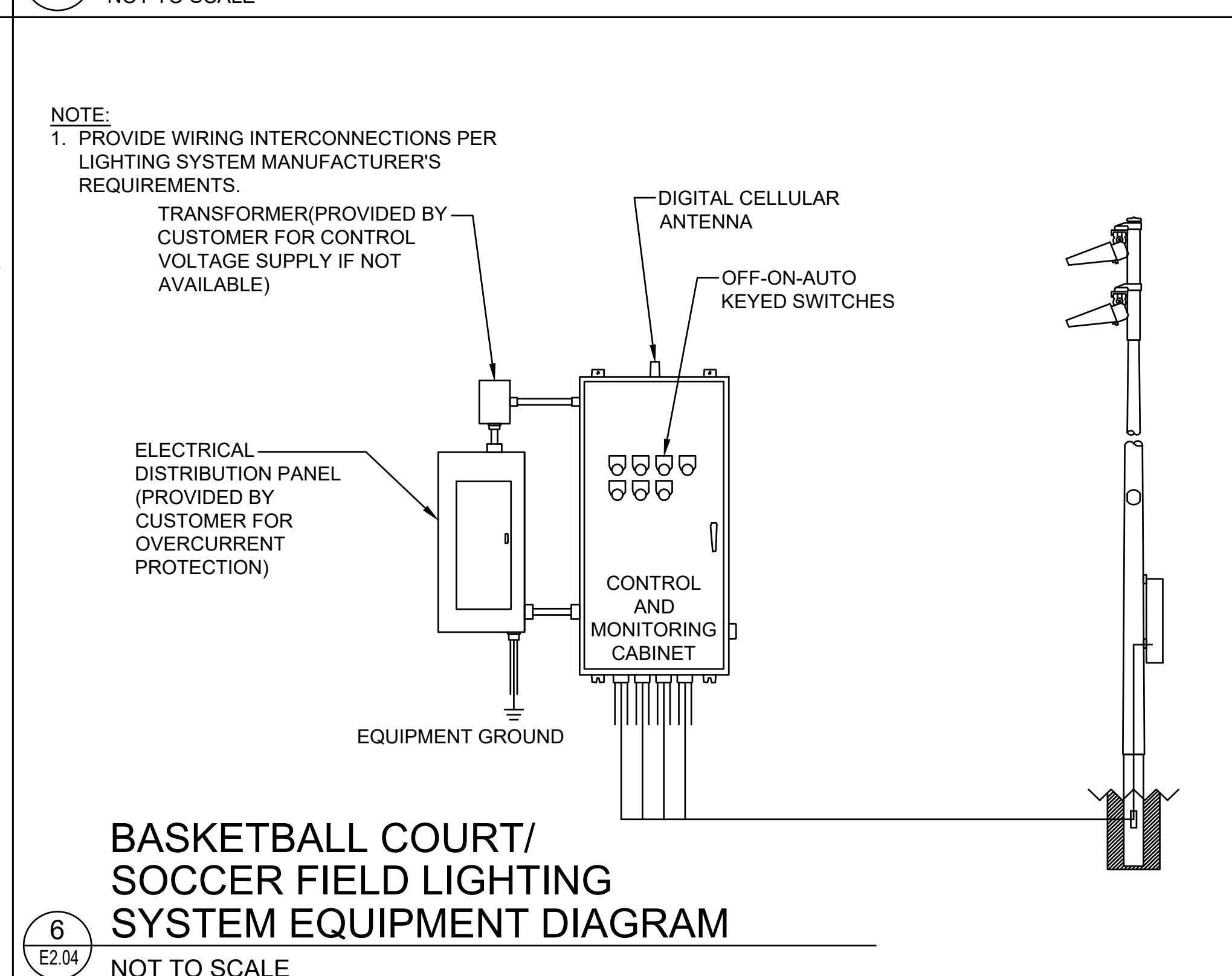
3
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BASKETBALL COURT/
SOCCER FIELD ELECTRICAL
COMPONENTS ENCLOSURE
NOT TO SCALE



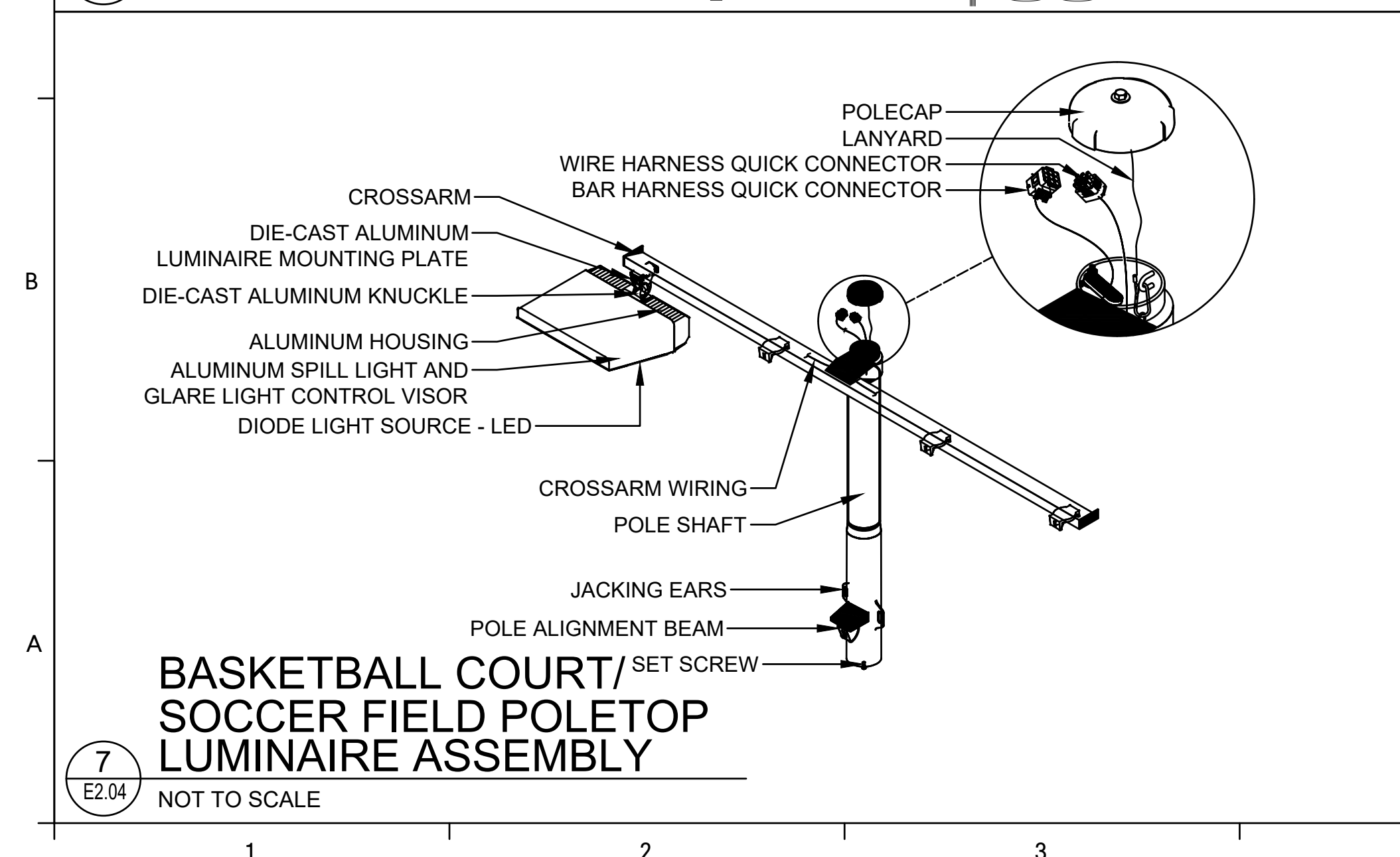
4
E2.04
BASKETBALL COURT/
SOCCER FIELD
WIRE HARNESS
NOT TO SCALE



5
E2.04
BASKETBALL COURT/
SOCCER FIELD POLETOP
LUMINAIRE ASSEMBLY
NOT TO SCALE



6
E2.04
BASKETBALL COURT/
SOCCER FIELD LIGHTING
SYSTEM EQUIPMENT DIAGRAM
NOT TO SCALE



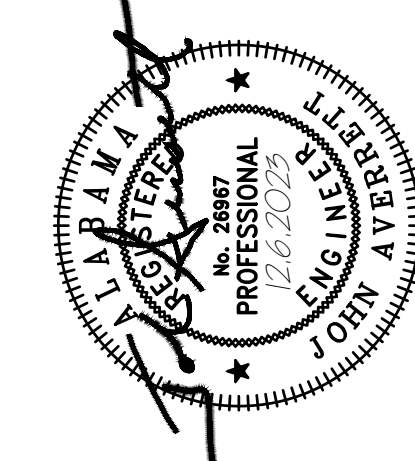
7
E2.04
BASKETBALL COURT/
SOCCER FIELD POLETOP
LUMINAIRE ASSEMBLY
NOT TO SCALE



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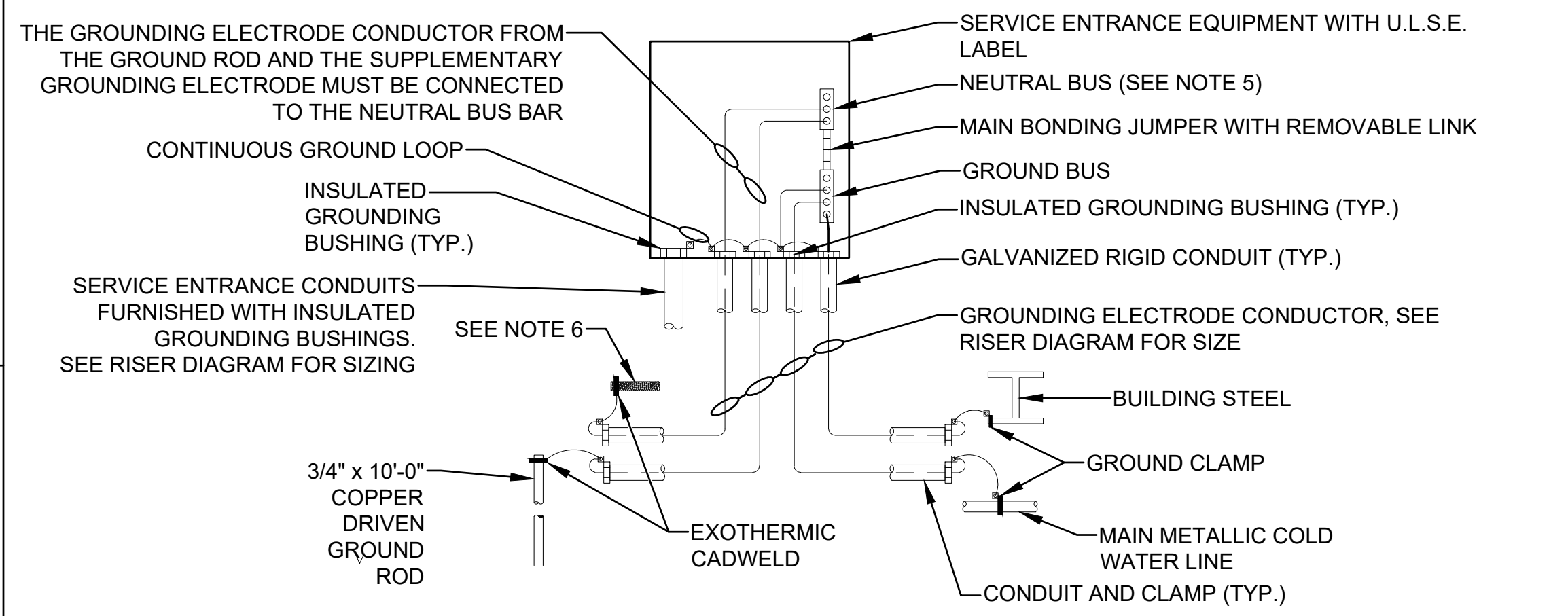
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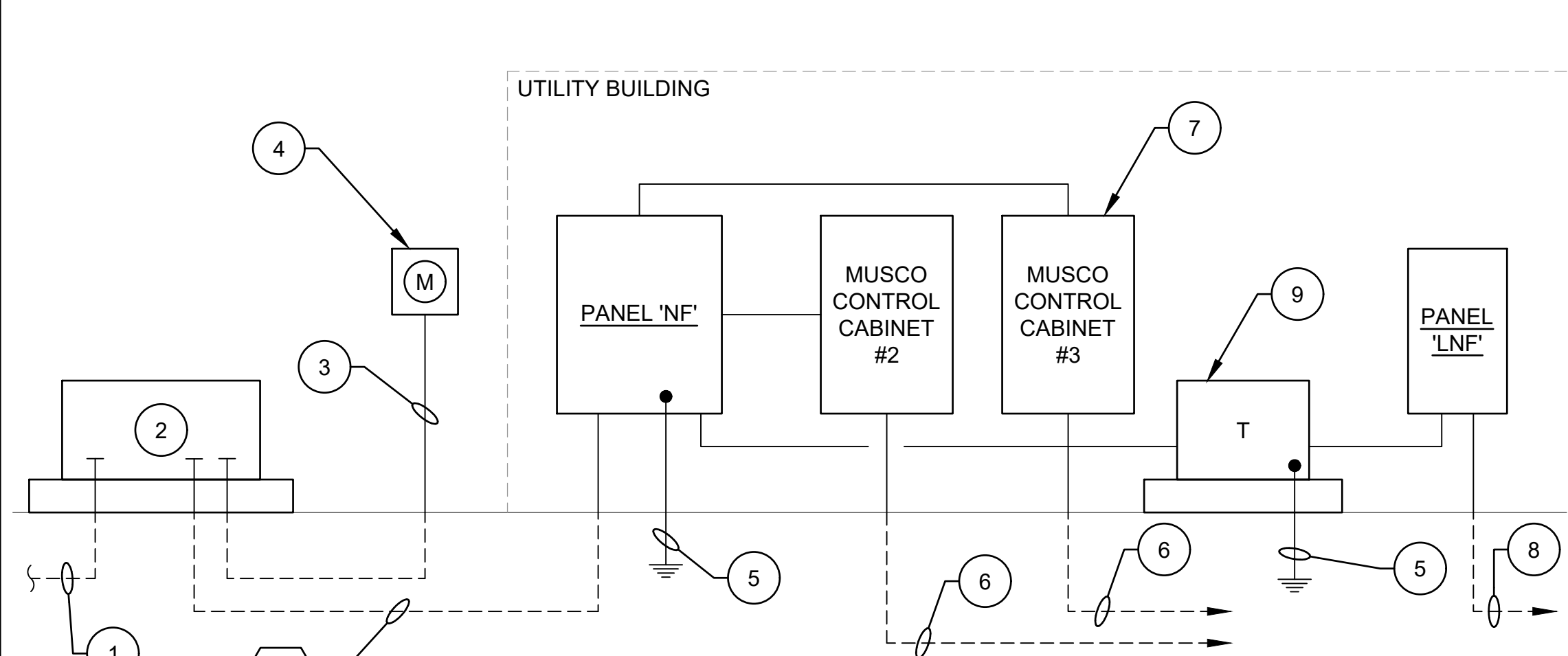
ELECTRICAL DETAILS
E2.04

VMOB230004



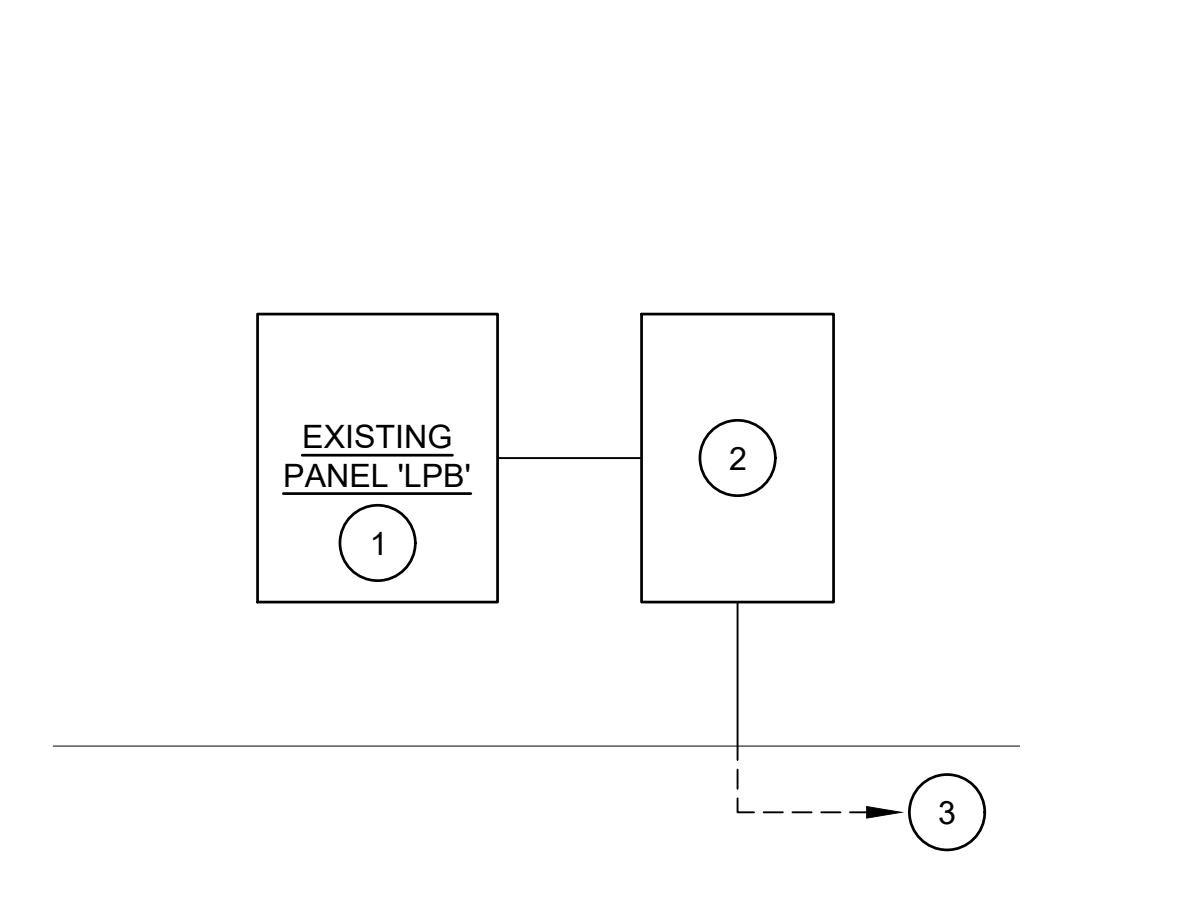
1 SERVICE ENTRANCE GROUNDING DETAIL

- DIAGRAMMATIC**
- NOTES:**
- GROUNDING ELECTRODE CONDUCTORS SHALL BE ENCLOSED FULL LENGTH BY GALVANIZED RIGID CONDUIT AS INDICATED.
 - GROUNDING ELECTRODE CONDUCTORS SHALL BE BARE COPPER, SOFT-DRIVEN.
 - ALL BUSHING CLAMPS, JUMPERS, DEVICES, ETC. INSTALLED IN DIRECT CONTACT WITH EARTH SHALL BE APPROVED FOR THE PURPOSE.
 - GROUNDING ELECTRODE CONDUCTORS SIZED 6 AWG OR SMALLER SHALL HAVE A CONTINUOUS GREEN OUTER FINISH PER N.E.C.
 - GROUNDING ELECTRODE CONDUCTOR FROM GROUND ROD AND REBAR MUST BE CONNECTED TO THE NEUTRAL BUS BAR AHEAD OF THE BONDING JUMPER.
 - 20' GROUNDING ELECTRODE ENCASED IN CONCRETE IN THE DEEPEST FOOTING AND BENT INSIDE THE BUILDING. GROUNDING ELECTRODE CONDUCTOR MUST BE CONNECTED TO THE OTHER STRUCTURAL REBAR (BY OTHERS) ENCASED IN CONCRETE. REBAR MAY BE USED AS THE GROUNDING ELECTRODE CONDUCTOR. REBAR SHALL BE PAINTED GREEN WHERE EXPOSED OUTSIDE OF THE CONCRETE. THIS IS NOT REQUIRED IN EXISTING BUILDING RENOVATION PROJECTS WHERE A NEW SERVICE IS BEING PROVIDED.
 - IF NONE OF THE OPTIONS ARE AVAILABLE, THE ELECTRICAL CONTRACTOR SHALL USE A COUNTER POISE SYSTEM AS PER THE N.E.C.
 - CONNECTION MUST BE MADE TO THE METAL COLD WATER PIPE WITHIN 5' OF THE POINT OF ENTRANCE INTO THE BUILDING.
 - METAL GAS PIPE SHALL NOT BE USED AS A GROUNDING ELECTRODE CONDUCTOR PER N.E.C. HOWEVER, IF A METAL GAS PIPE IS PROVIDED BY OTHER, IT MUST BE BONDED TO THE GROUNDING ELECTRODE SYSTEM.



2 POWER RISER DIAGRAM

- DIAGRAMMATIC**
- RISER DIAGRAM LEGEND (#)**
- ELECTRICAL CONTRACTOR SHALL PROVIDE 2-5" PVC CONDUITS FROM PADMOUNTED TRANSFORMER TO UTILITY CO. RISER POLE, AS PER UTILITY COMPANY REQUIREMENTS.
 - NEW PADMOUNTED TRANSFORMER PROVIDED BY UTILITY CO. CONCRETE PAD BY ELECTRICAL CONTRACTOR AS PER UTILITY CO. REQUIREMENTS.
 - 1-1/4" C FOR METERING.
 - METER FURNISHED BY UTILITY CO. AND INSTALLED BY ELECTRICAL CONTRACTOR.
 - GROUNDS PER NEC AND DETAILS.
 - TO SPORTS LIGHTING STANDARD SEE PLANS FOR LOCATIONS.
 - ALL WORK ASSOCIATED WITH BASKETBALL COURT LIGHTING WILL BE ALTERNATE #1.
 - STUB-OUT 1-2" EC TO LOCATION OF FUTURE SIGN - VERIFY WITH OWNER.
 - TRANSFORMER 'TLNF' TYPE 'T2' - SEE TRANSFORMER SCHEDULE.



3 ALTERNATE #2 RISER DIAGRAM - EXISTING UTILITY/STORAGE BLDG

- DIAGRAMMATIC**
- PANELBOARD RISER NOTES (#)**
- EXISTING PANEL 'LPB', ADD 4-30/3 BREAKERS (ONE PER POLE) TO SERVE NEW MUSCO SPORTS LIGHTING. ROUTE THRU CONTACTOR (AS SCHEDULED) IN MUSCO CONTROL CABINET #1.
 - MUSCO CONTROL CABINET #1.
 - TO LIGHTING STANDARD - SEE SITE PLAN.

FEEDER SCHEDULE							
SYMBOL	COPPER	SYMBOL	COPPER	SYMBOL	COPPER	SYMBOL	COPPER
30/2G	2#10 & 1#10(G) - 3/4"C	150/4G	4#1/0 & 1#6(G) - 2"C	250/4G	4#250MCM & 1#4(G) - 3"C	600/4G	2 PARALLEL RUNS OF 4#350MCM & 1#1(G) - 3"C
60/3G	3#6 & 1#10(G) - 1"C	175/3G	3#2/0 & 1#6(G) - 2"C	300/3G	3#350MCM & 1#4(G) - 3"C	800/4G	2 PARALLEL RUNS OF 4#600MCM & 1#1/0(G) - 4"C
60/4G	4#6 & 1#10(G) - 1"C	175/4G	4#2/0 & 1#6(G) - 2"C	300/4G	4#350MCM & 1#4(G) - 3"C	1000/4G	3 PARALLEL RUNS OF 4#500MCM & 1#2/0(G) - 3 1/2"C
100/3G	3#3 & 1#8(G) - 1-1/4"C	200/3G	3#3/0 & 1#6(G) - 2"C	350/3G	3#500MCM & 1#3(G) - 3"C	1200/4G	3 PARALLEL RUNS OF 4#600MCM & 1#3/0(G) - 4"C
100/4G	4#3 & 1#8(G) - 1-1/4"C	200/4G	4#3/0 & 1#6(G) - 2"C	350/4G	4#500MCM & 1#3(G) - 3 1/2"C	1600/4G	4 PARALLEL RUNS OF 4#600MCM & 1#4/0(G) - 4"C
125/3G	3#1 & 1#6(G) - 1-1/4"C	225/3G	3#4/0 & 1#4(G) - 2"C	400/3G	3#600MCM & 1#3(G) - 3 1/2"C		
125/4G	4#1 & 1#6(G) - 1-1/2"C	225/4G	3#4/0 & 1#4(G) - 2 1/2"C	400/4G	4#600MCM & 1#3(G) - 4"C		
150/3G	3#1/0 & 1#6(G) - 1 1/2"C	250/3G	3#250MCM & 1#4(G) - 2 1/2"C	500/4G	2 PARALLEL RUNS OF 4#250MCM & 1#2(G) - 3"C		

NOTES:

- SCHEDULE IS TYPICAL AND MAY CONTAIN ITEMS NOT REQUIRED FOR THIS PROJECT.

GROUNDING ELECTRODE CONDUCTOR TABLE	
SIZE OF LARGEST UNGROUND SERVICE-ENTRANCE CONDUCTOR OR EQUIVALENT AREA FOR PARALLEL CONDUCTORS (AWG/kcmil)	SIZE OF GROUNDING ELECTRODE CONDUCTOR (AWG/kcmil)
COPPER	COPPER
2 OR SMALLER	8
1 OR 1/0	6
2/0 OR 3/0	4
OVER 3/0 THROUGH 350	2
OVER 350 THROUGH 600	1/0
OVER 600 THROUGH 1100	2/0
OVER 1100	3/0

NOTES:

- WHERE MULTIPLE SETS OF SERVICE-ENTRANCE CONDUCTORS ARE USED AS PERMITTED IN 230.40, EXCEPTION NO. 2, THE EQUIVALENT SIZE OF THE LARGEST SERVICE-ENTRANCE CONDUCTOR SHALL BE DETERMINED BY THE LARGEST SUM OF THE AREAS OF THE CORRESPONDING CONDUCTORS OF EACH SET.
- WHERE THERE ARE NO SERVICE-ENTRANCE CONDUCTORS, THE GROUNDING ELECTRODE CONDUCTOR SIZE SHALL BE DETERMINED BY THE EQUIVALENT SIZE OF THE LARGEST SERVICE-ENTRANCE CONDUCTOR REQUIRED FOR THE LOAD TO BE SERVED. THIS TABLE ALSO APPLIES TO THE DERIVED CONDUCTORS OF SEPARATELY DERIVED AC SYSTEMS.

DISCONNECT SWITCH SCHEDULE		
NUMBER	SIZE	POLE
S1	30	2
S2	30	3
S3	60	2
S4	60	3
S5	100	3
S6	200	3
S7	400	3
S8	600	3

NOTES:

- ALL DISCONNECT SWITCHES MUST BE LOCATED TO INSURE PROPER CLEARANCES AS PER N.E.C., LOCATION SHALL ALSO BE COORDINATED WITH MECHANICAL CONTRACTOR TO VERIFY THAT NO CONFLICT OCCURS WITH ANY MECHANICAL EQUIPMENT.
- ALL DISCONNECT SWITCHES WILL BE LABELED BY ELECTRICAL CONTRACTOR AS PER REQUIREMENTS OF SPECIFICATIONS AND PLANS.
- ALL FUSED DISCONNECT SWITCHES TO BE FUSED AS PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.
- THIS SCHEDULE IS STANDARD AND MAY INCLUDE ITEMS NOT REQUIRED FOR THIS PROJECT.

TRANSFORMER SCHEDULE							
Mark	Transformer KVA	Primary F.L. Amps	Primary Breaker or Fuse	Primary Feeder	Secondary F.L. Amps	Secondary Breaker or Fuse	Secondary Feeder
T1	15	18A	30A	3#10 & 1#10G - 3/4"C	41.5A	60A	4#4 & 1#8G - 1-1/4"C
T2	30	36A	50A	3#8 & 1#10G - 3/4"C	83A	100A	4#1 & 1#6G - 1-1/2"C
T3	45	54A	70A	3#4 & 1#8G - 1"C	125A	150A	4#1/0 & 1#6G - 2"C
T4	75	90A	125A	3#1 & 1#6G - 1-1/2"C	208A	250A	4#250MCM & 1#2G - 2-1/2"C
T5	112.50	135A	175A	3#2/0 & 1#6G - 2"C	312A	400A	2(4#3/0, 1#1/0G - 2-1/2"C) OR 4#600MCM
T6	150	180A	225A	3#4/0 & 1#4G - 2-1/2"C	415A	500A	2(4#250MCM, 1#1/0G - 2-1/2"C)

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Montgomery, AL 36117
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ISSUED FOR BID	12.06.2023
DESIGNED BY:	TGS
DRAWN BY:	JMP
CHECKED BY:	JEA

SPANISH FORT SOCCER FIELD
SPANISH FORT, AL
CMOB230047

POWER RISER DIAGRAM, DETAILS, & SCHEDULES

E3.01

VMOB230004

PANELBOARD NOTES

- 1. PANELBOARDS SHALL BE INSTALLED IN SUCH A MANNER TO MAINTAIN ALL CLEARANCES IN ACCORDANCE WITH THE NEC.
2. ALL PANELBOARDS SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THAT LISTING.
3. PANELBOARDS SHALL BE FURNISHED COMPLETE WITH THE PROPERLY SIZED CAN, INTERNAL HARDWARE, COMPONENTS, SUPPORTING STRUCTURES, ETC., FOR A COMPLETE INSTALLATION.
4. FURNISH EACH PANELBOARD WITH A GROUND BAR BONDED TO THE PANEL ENCLOSURE.
5. EACH PANELBOARD SHALL HAVE A NAMEPLATE AS SHOWN IN DETAIL. ENGINEER WILL NOT ACCEPT JOB UNTIL THESE NAMEPLATES ARE PROVIDED.
6. ALL FLUSH MOUNTED PANELBOARDS SHALL BE PROVIDED WITH AT LEAST SIX 3/4" SPARE CONDUITS TO ABOVE ACCESSIBLE CEILING.
7. ALL PANELBOARDS SHALL BE CLEARLY MARKED TO COMPLY WITH NEC 110.16 & NEC110.24 REGARDING POTENTIAL HAZARDS OF ARC FLASH.
8. PROVIDE TYPED CIRCUIT DIRECTORY THAT INDICATES WHAT EACH CIRCUIT IS SERVING. LIGHTING AND RECEPTACLE CIRCUITS WILL INCLUDE THE ROOM NUMBERS THAT CIRCUIT IS SERVING.
9. PANELBOARDS SHALL BE FULLY RATED. (SERIES RATED PANELBOARDS WILL NOT BE ACCEPTED.)
10. PROVIDE THE PROPERLY SIZED CONDUCTOR TERMINATION POINTS OR LUGS (MULTIPLE LUGS WHEN PARALLEL FEEDERS ARE USED) FOR THE NUMBER AND SIZE CIRCUITS INDICATED.
11. THE TERMINATION POINT OF THE FEEDER SERVING EACH ASSEMBLY SHALL BE AT THE NEAREST POINT OF FEEDER ENTRY TO MINIMIZE CONDUCTOR FILL IN THE CAN. COORDINATE TOP/BOTTOM FED PANELBOARD PROVISIONS WITH EACH FEED INSTALLATION.
12. ALL PANELBOARDS SHALL BE DOOR-IN-DOOR CONSTRUCTION.
13. MANUFACTURER THAT WILL BE PROVIDING PANELBOARDS ON THIS PROJECT WILL NEED TO DO A BREAKER COORDINATION TO ENSURE DOWNSTREAM CIRCUIT BREAKERS TRIP BEFORE UPSTREAM BREAKERS. PROVIDE BREAKER COORDINATION STUDY IN THE SHOP DRAWINGS FOR ENGINEER REVIEW.

NEW PANELBOARD SCHEDULE: NF

Table with columns: LOCATION, UTILITY/STORAGE BUILDING, MAIN, MCB, VOLTAGE, TRIM, SURFACE, INTERRUPTING RATING, 22K AIC, 100% RATED MCB, CKT #, LOAD DESCRIPTION, BREAKER, PHASE (kVA), POLE, LOAD DESCRIPTION, CKT #.

NOTES:

- G - INDICATES CLASS A GFCI TYPE CIRCUIT BREAKER
C - INDICATES LOCK-ON CLIP FOR CIRCUIT BREAKER.

EX PANELBOARD SCHEDULE: LPB

Table with columns: LOCATION, EX UTIL STORAGE BLDG, MAIN, MCB, SERVICE ENTRANCE RATED, VOLTAGE, TRIM, SURFACE, INTERRUPTING RATING, 10K AIC, CKT #, LOAD DESCRIPTION, BREAKER, PHASE (kVA), POLE, LOAD DESCRIPTION, CKT #.

NOTES:

- G - INDICATES CLASS A GFCI TYPE CIRCUIT BREAKER
C - INDICATES LOCK-ON CLIP FOR CIRCUIT BREAKER.
BOLD, ITALIC TEXT INDICATES NEW WORK.

NEW PANELBOARD SCHEDULE: LNF

Table with columns: LOCATION, UTILITY/STORAGE BUILDING, MAIN, MCB, VOLTAGE, TRIM, SURFACE, INTERRUPTING RATING, 10K AIC, 100% RATED MCB, CKT #, LOAD DESCRIPTION, BREAKER, PHASE (kVA), POLE, LOAD DESCRIPTION, CKT #.

NOTES:

- G - INDICATES CLASS A GFCI TYPE CIRCUIT BREAKER
C - INDICATES LOCK-ON CLIP FOR CIRCUIT BREAKER.

LUMINAIRE SCHEDULE

Table with columns: FIXTURE MARK, LAMPS (NO, WATTS, TYPE, LUMENS), VOLTAGE, MOUNTING TYPE, MAKE, MODEL, DESCRIPTION.

MOUNTING LEGEND

- AG - AT GRADE
BAM - BRACKET ABOVE
BW - BRACKET WALL
P - POLE MOUNTED
PT - POST TOP
RW - RECESSED WALL
S - SUSPENDED
SC - SURFACE CEILING
SW - SURFACE WALL
UNV - UNIVERSAL
RC - RECESSED CEILING

LUMINAIRE SCHEDULE NOTES:

- 1. EQUIVALENT PRODUCTS WILL BE REVIEWED PROVIDED THE REQUIREMENTS FOR PRIOR APPROVAL OUTLINED IN THE SPECIFICATIONS ARE MET AND MUST MEET OR EXCEED QUALITY, FUNCTIONALITY, SHAPE, LUMEN OUTPUT, ETC OF PRODUCT LISTED BY CATALOG NUMBER.
2. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL FIXTURE MOUNTING PROVISIONS WITH THE ASSOCIATED CEILING TYPE(S) BEFORE ORDERING FIXTURES.
3. IN ORDER TO ENSURE PROPER COORDINATION AND LONG TERM SUPPORT FOR THE OWNER, ALL LIGHTING FIXTURES WILL BE PURCHASED THROUGH A MANUFACTURER'S REPRESENTATIVE AND DISTRIBUTORS LOCATED WITHIN ONE HUNDRED AND FIFTY (150)MILES OF THE PROJECT SITE. SUBMITTALS RECEIVED THAT DO NOT COMPLY WITH THIS REQUIREMENT WILL BE REJECTED WITHOUT REVIEW. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DELAYS CAUSED BY NON-COMPLIANCE WITH THIS REQUIREMENT.
4. ALL EMERGENCY AND EXIT LIGHTS WILL BE CONNECTED TO UNSWITCHED HOT LEG SO THAT BATTERY OPERATES UPON POWER FAILURE.
5. SOME LISTED CATALOG NUMBERS MAY INCLUDE MODIFICATIONS OF A MANUFACTURER'S STANDARD PRODUCT.
6. ANY AND ALL DIMENSIONAL DIFFERENCES MUST BE COORDINATED PRIOR TO RELEASE OF ORDER.

RELAY CONTROL PANEL SCHEDULE 'A'

Table with columns: RELAY, VOLT, CIRCUIT, DESCRIPTION, SW INPUTS, TIMERS, NOTE, BUTTON, SW TYPE.

NOTES:

- 1 TIMED ON-OFF.

NOTES:

SYSTEM WILL BE PROVIDED AS A COMPLETE OPERATING SYSTEM, AS PER DESIGN INTENT AND MANUFACTURER'S SHOP DRAWING. MANUFACTURER'S SHOP DRAWINGS MUST BE SUBMITTED AND APPROVED PRIOR TO BEGINNING ROUGH-IN.

CIRCUIT SUMMARY BY SWITCH

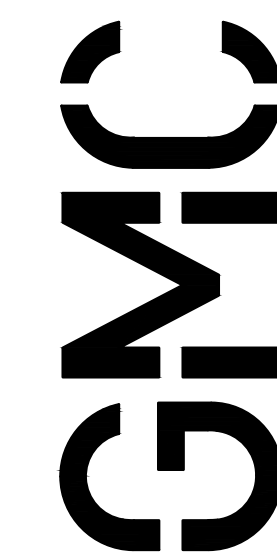
Table with columns: SWITCH, ZONE DESCRIPTION, POLE ID, QTY OF FIXTURES, FULL LOAD AMPS, CONTACTOR SIZE (AMPS), CABINET #, CONTACTOR ID, PANEL/BREAKER.

CIRCUIT SUMMARY BY SWITCH

Table with columns: SWITCH, ZONE DESCRIPTION, POLE ID, QTY OF FIXTURES, FULL LOAD AMPS, CONTACTOR SIZE (AMPS), CABINET #, CONTACTOR ID, PANEL/BREAKER.

CIRCUIT SUMMARY BY SWITCH

Table with columns: SWITCH, ZONE DESCRIPTION, POLE ID, QTY OF FIXTURES, FULL LOAD AMPS, CONTACTOR SIZE (AMPS), CABINET #, CONTACTOR ID, PANEL/BREAKER.



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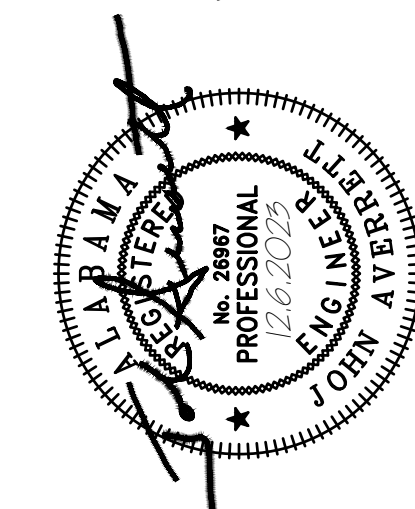
ISSUED FOR BID: 12.06.2023

DESIGNED BY: TGS
DRAWN BY: JIMP
CHECKED BY: UEA

SPANISH FORT SOCCER FIELD

SPANISH FORT, AL

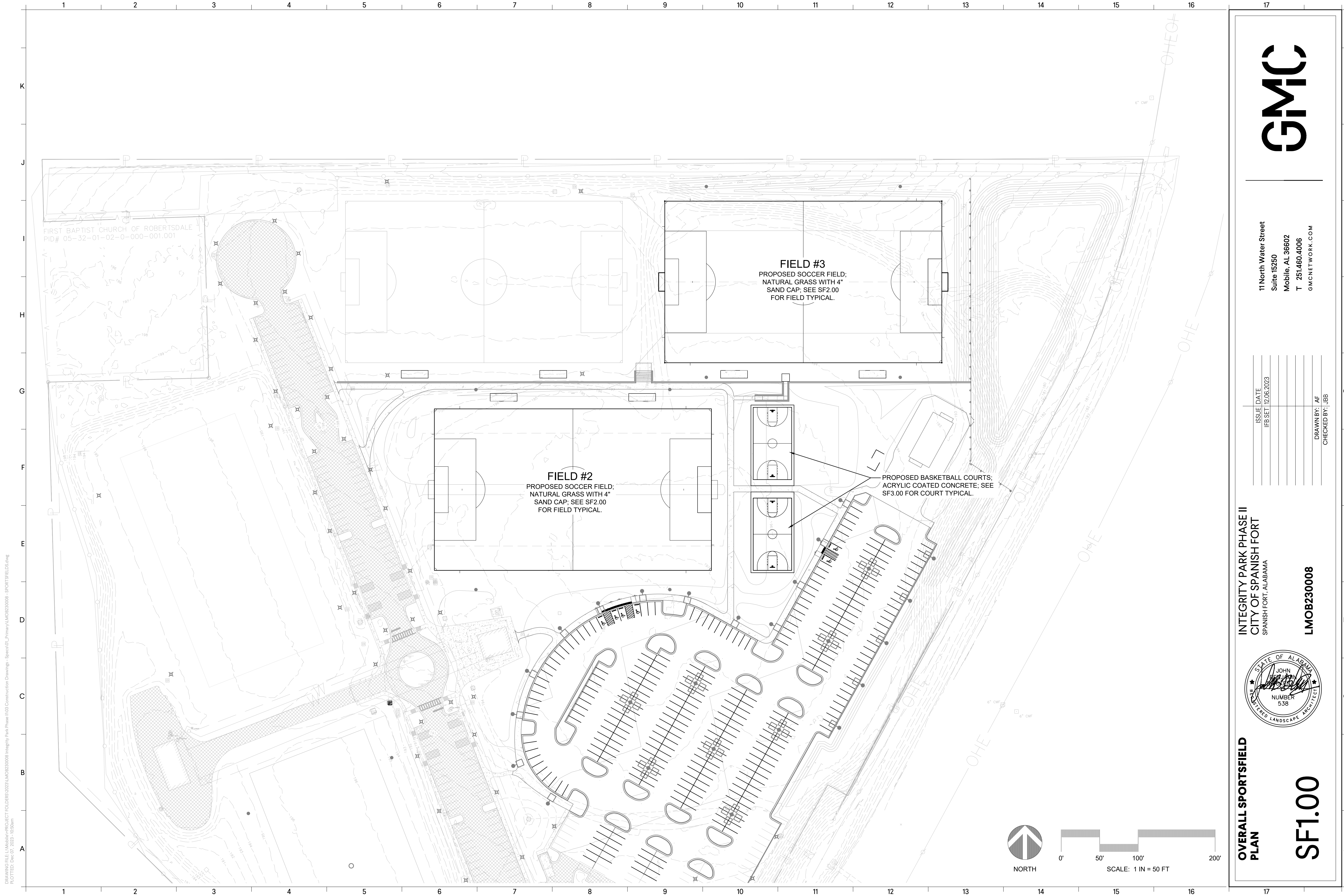
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PANEL SCHEDULES

E3.02

VMOB230004

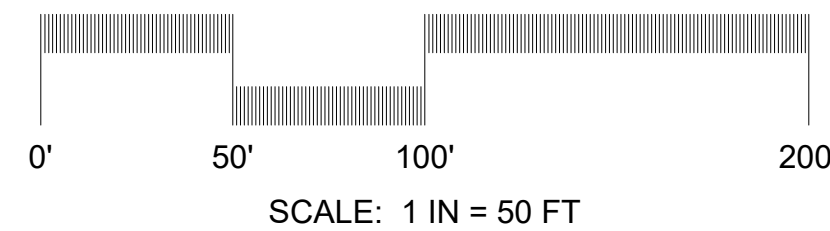
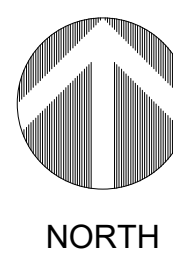


FIRST BAPTIST CHURCH OF ROBERTSDALE
PID# 05-32-01-02-0-000-001.001

FIELD #2
PROPOSED SOCCER FIELD;
NATURAL GRASS WITH 4"
SAND CAP; SEE SF2.00
FOR FIELD TYPICAL.

FIELD #3
PROPOSED SOCCER FIELD;
NATURAL GRASS WITH 4"
SAND CAP; SEE SF2.00
FOR FIELD TYPICAL.

PROPOSED BASKETBALL COURTS;
ACRYLIC COATED CONCRETE; SEE
SF3.00 FOR COURT TYPICAL.



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INTEGRITY PARK PHASE II
CITY OF SPANISH FORT
SPANISH FORT, ALABAMA

LMOB230008

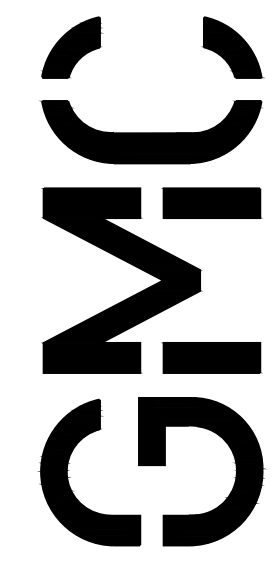
OVERALL SPORTSFIELD
PLAN

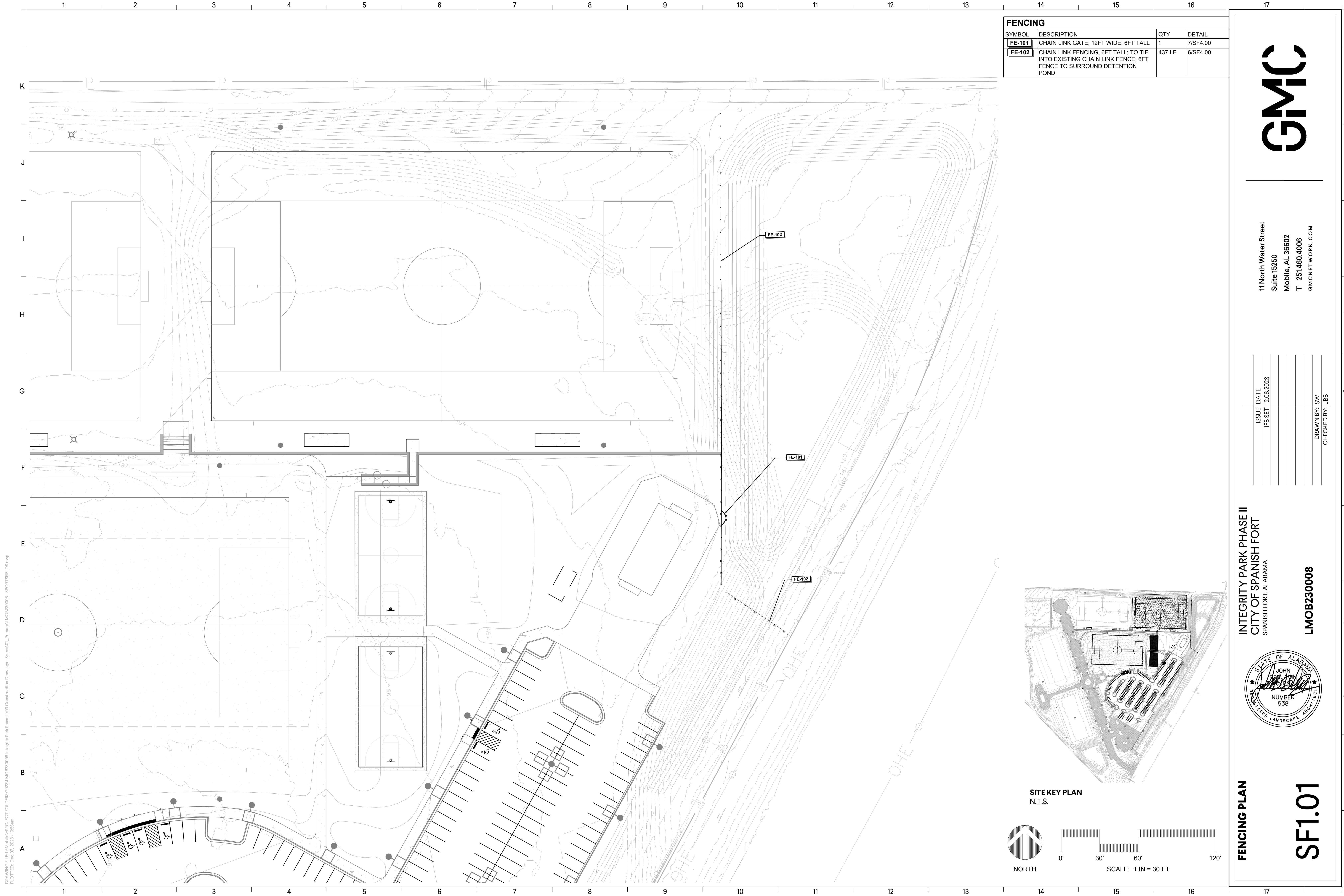
SF1.00



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CHECKED BY:	JBB





FENCING			
SYMBOL	DESCRIPTION	QTY	DETAIL
FE-101	CHAIN LINK GATE; 12FT WIDE, 6FT TALL	1	7/SF4.00
FE-102	CHAIN LINK FENCING, 6FT TALL; TO TIE INTO EXISTING CHAIN LINK FENCE; 6FT FENCE TO SURROUND DETENTION POND	437 LF	6/SF4.00

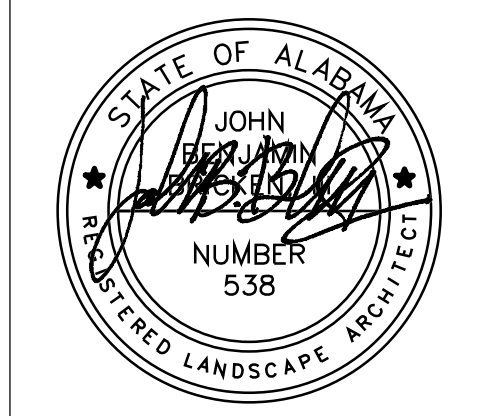
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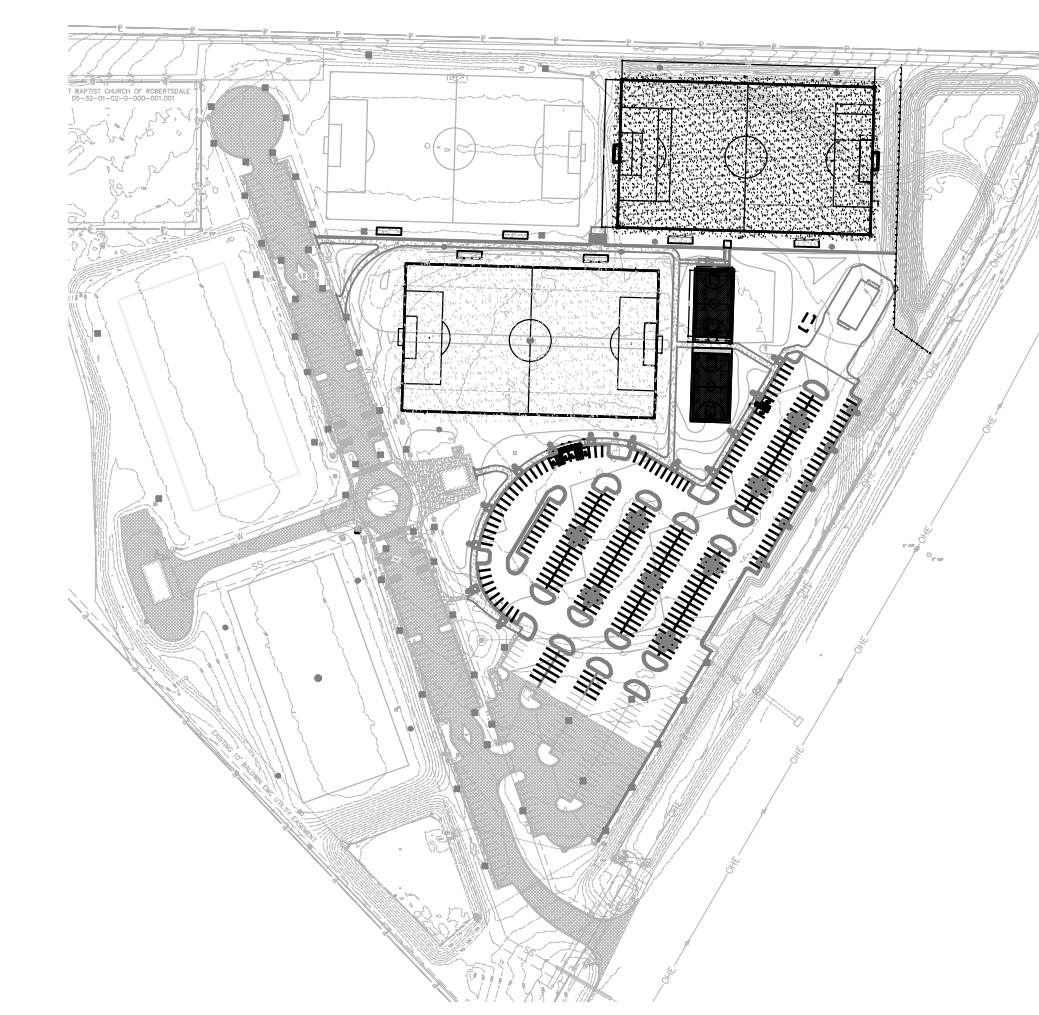
INTEGRITY PARK PHASE II
 CITY OF SPANISH FORT
 SPANISH FORT, ALABAMA

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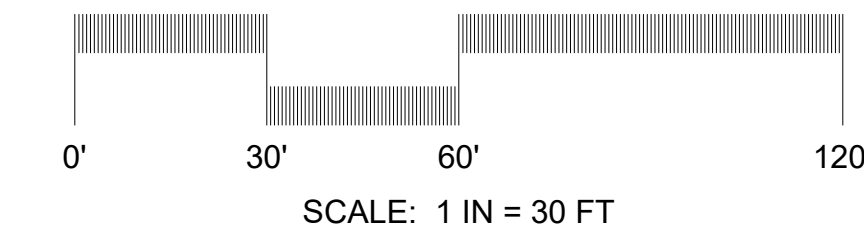


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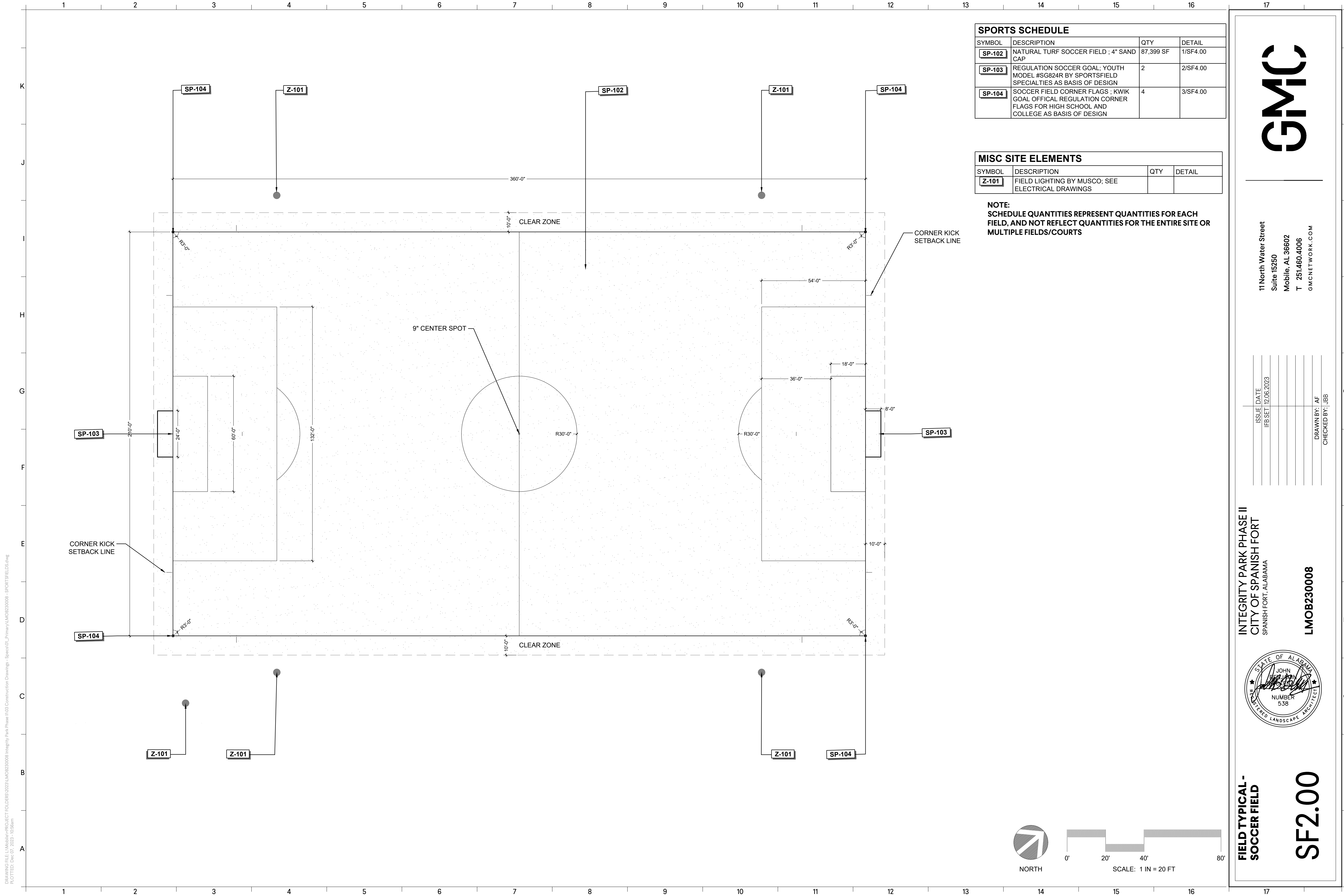
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SITE KEY PLAN
 N.T.S.



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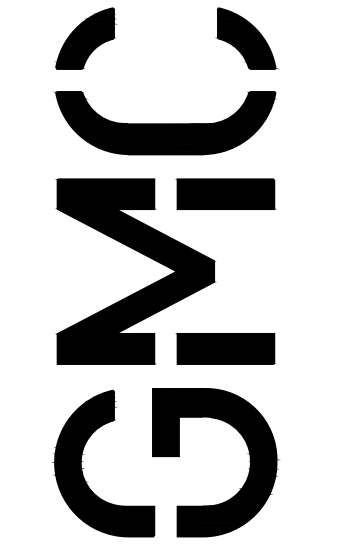
SPORTS SCHEDULE

SYMBOL	DESCRIPTION	QTY	DETAIL
SP-102	NATURAL TURF SOCCER FIELD ; 4" SAND CAP	87,399 SF	1/SF4.00
SP-103	REGULATION SOCCER GOAL; YOUTH MODEL #SG824R BY SPORTSFIELD SPECIALTIES AS BASIS OF DESIGN	2	2/SF4.00
SP-104	SOCCER FIELD CORNER FLAGS ; KWIK GOAL OFFICAL REGULATION CORNER FLAGS FOR HIGH SCHOOL AND COLLEGE AS BASIS OF DESIGN	4	3/SF4.00

MISC SITE ELEMENTS

SYMBOL	DESCRIPTION	QTY	DETAIL
Z-101	FIELD LIGHTING BY MUSCO; SEE ELECTRICAL DRAWINGS		

NOTE:
 SCHEDULE QUANTITIES REPRESENT QUANTITIES FOR EACH FIELD, AND NOT REFLECT QUANTITIES FOR THE ENTIRE SITE OR MULTIPLE FIELDS/COURTS

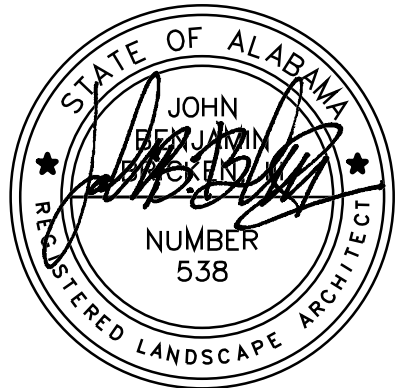


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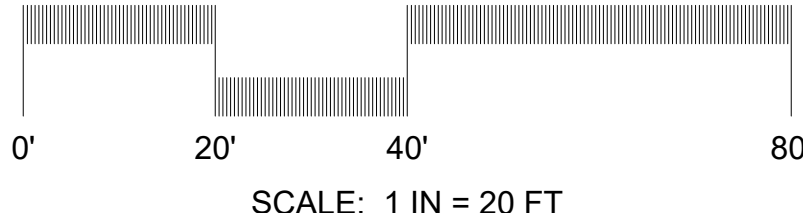
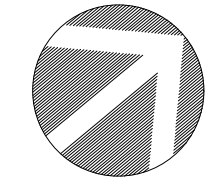
INTEGRITY PARK PHASE II
 CITY OF SPANISH FORT
 SPANISH FORT, ALABAMA

LMOB230008



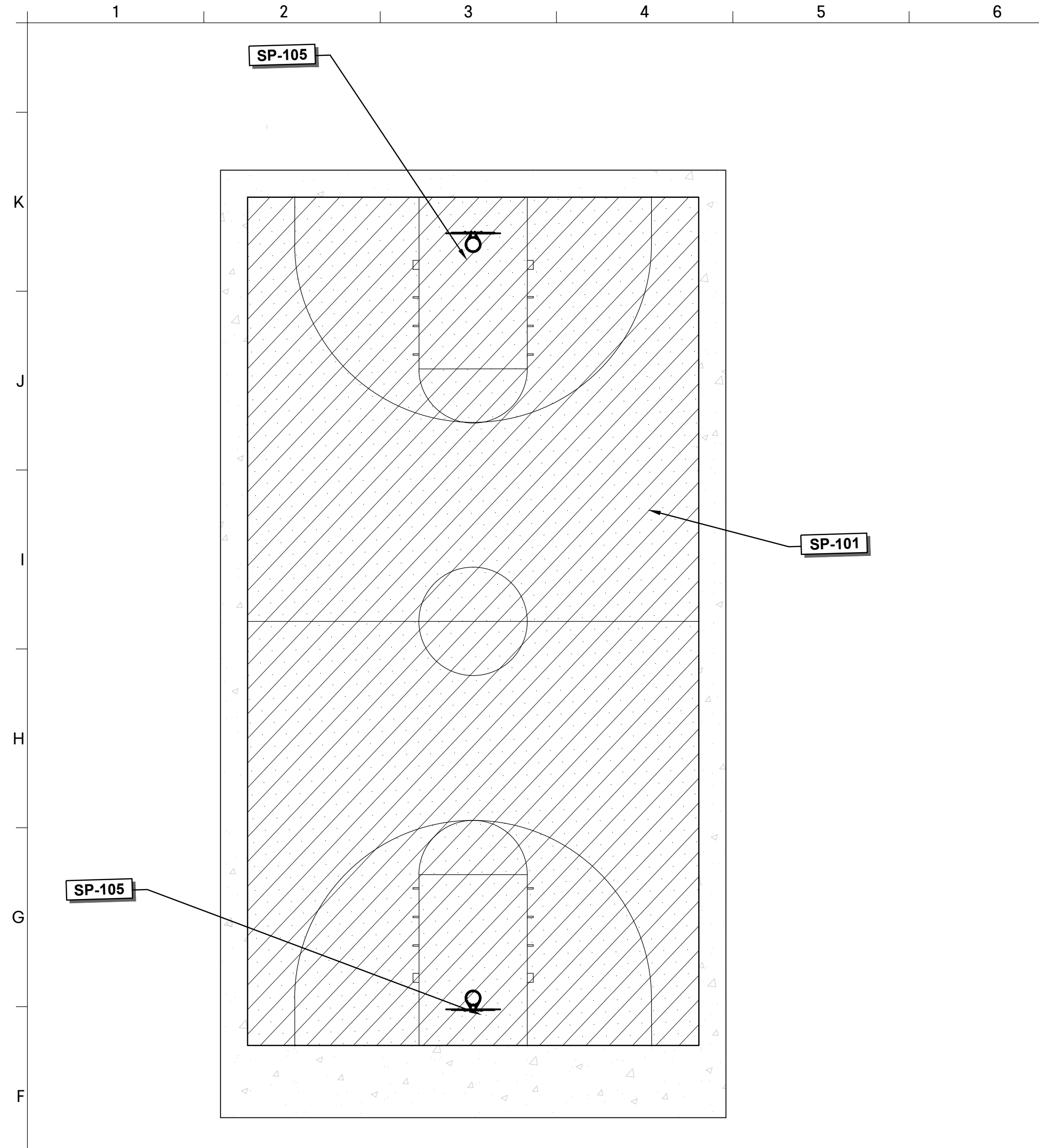
FIELD TYPICAL -
 SOCCER FIELD

SF2.00

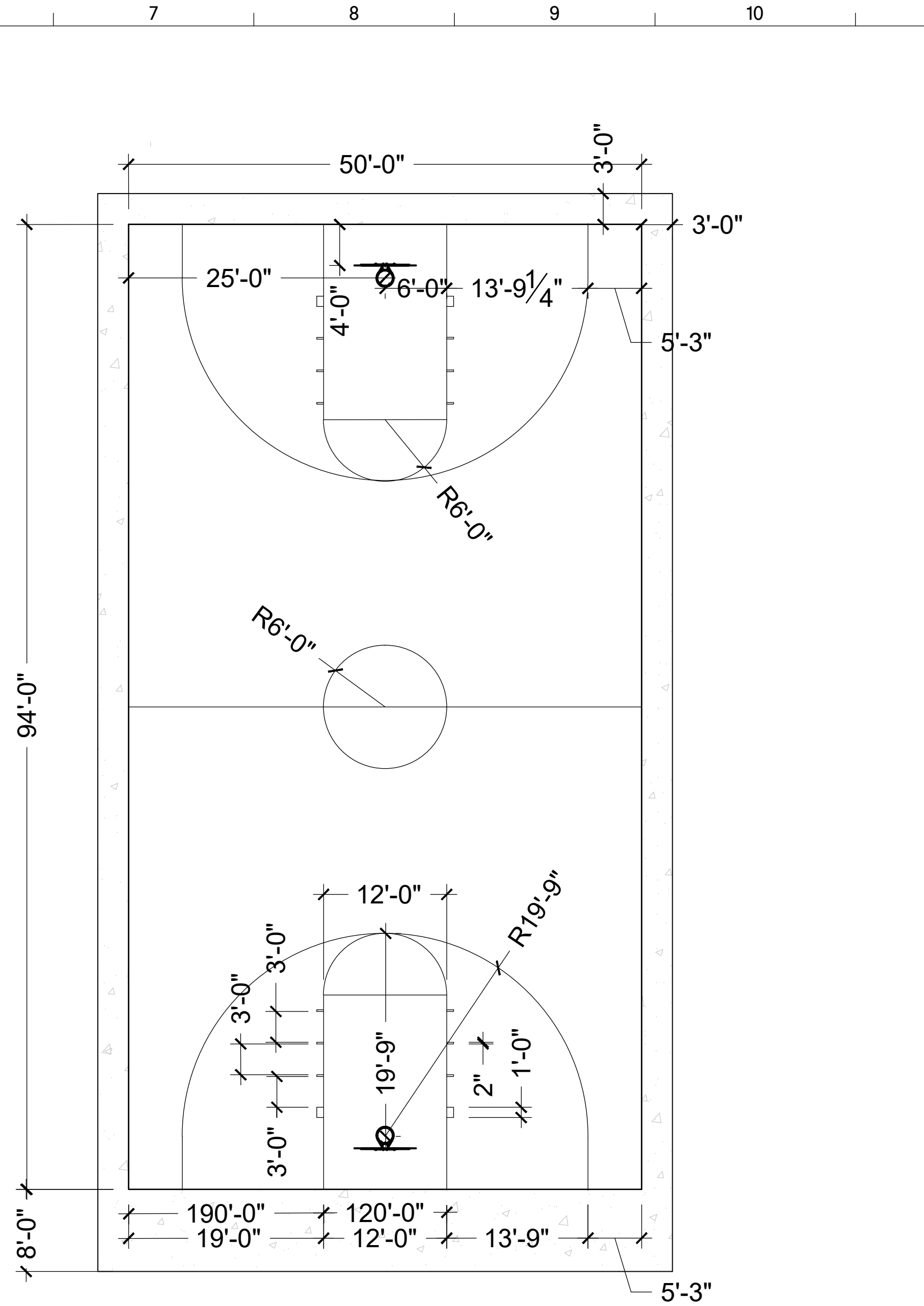


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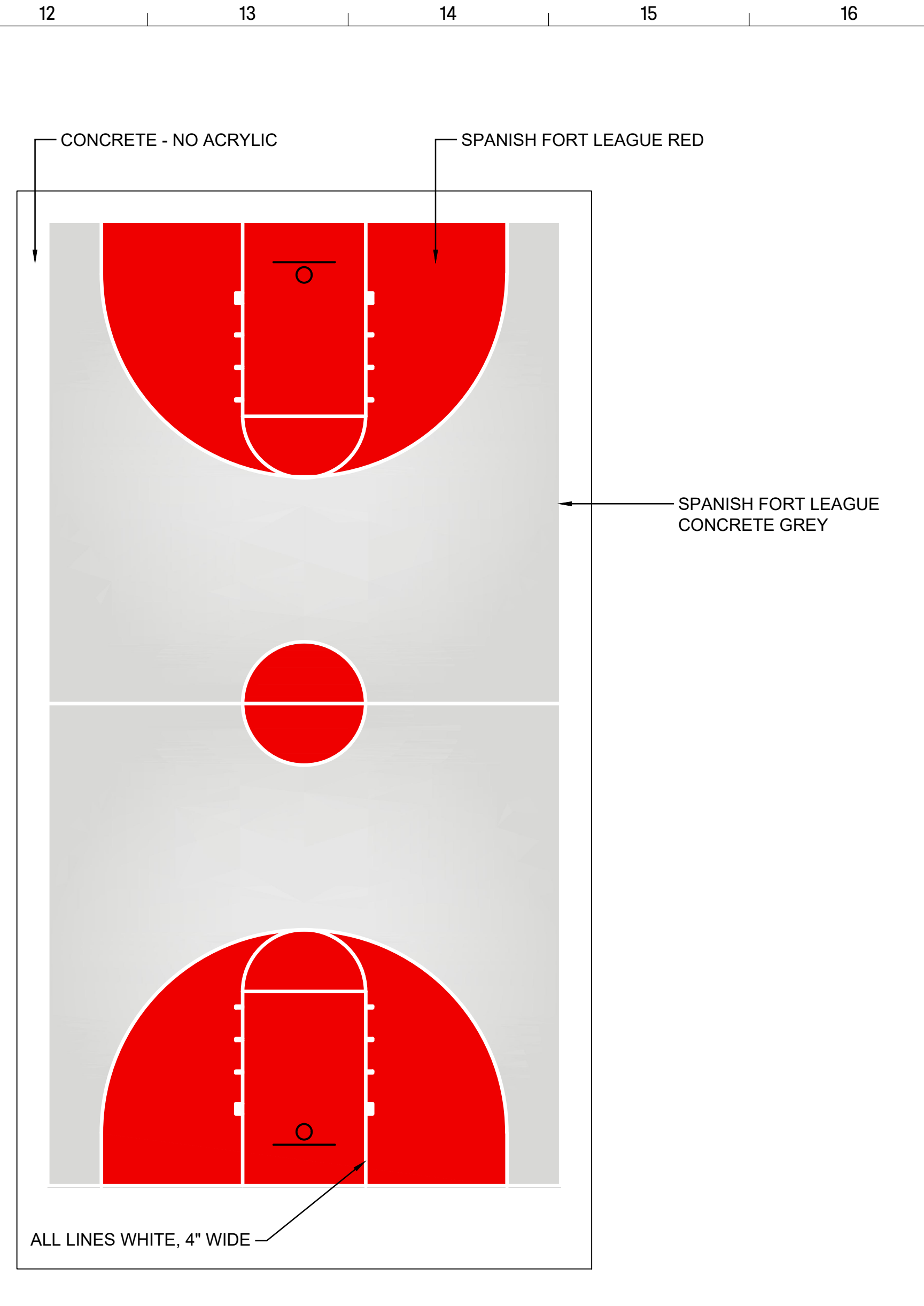
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MATERIALS PLAN



LAYOUT PLAN

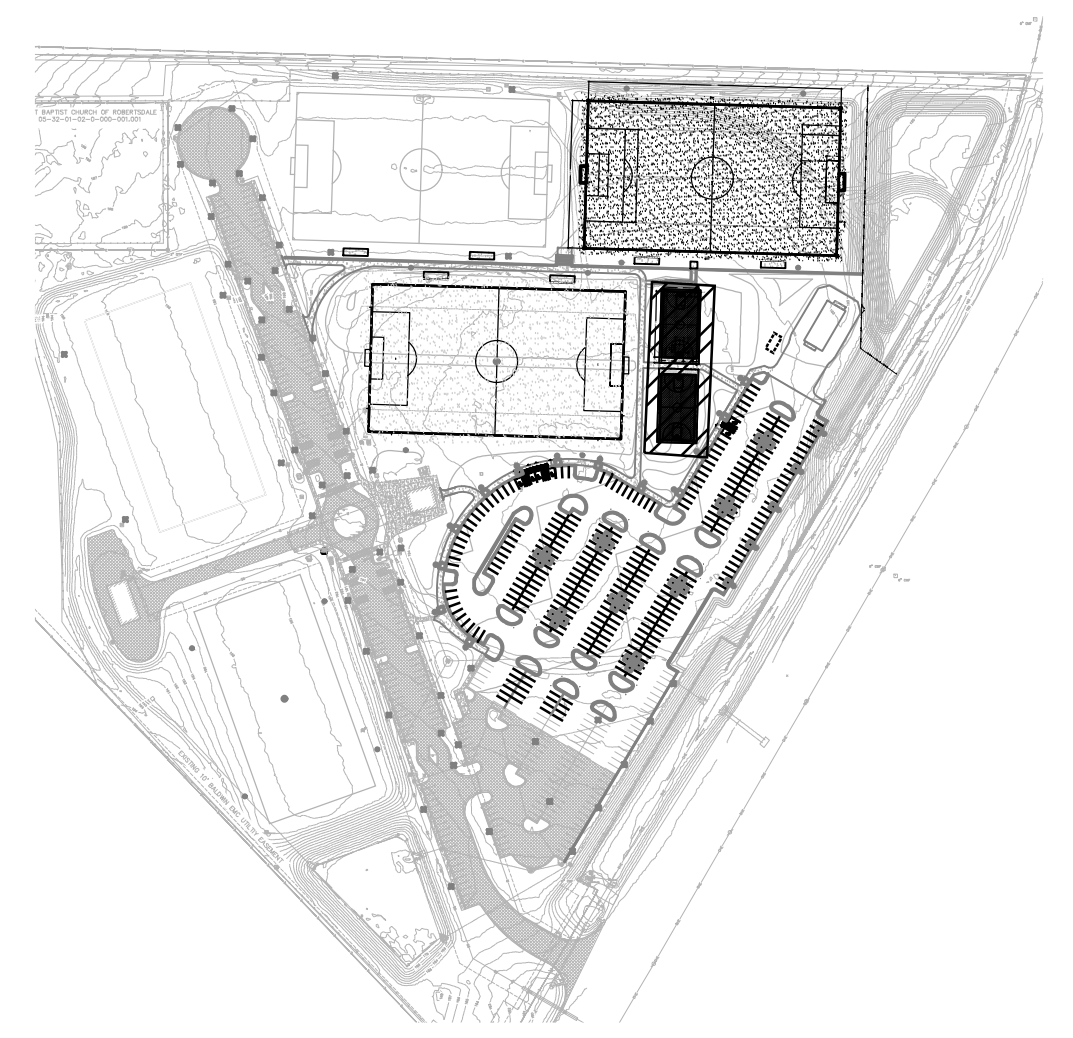


COURT COLOR PLAN

GRAPHIC NOTES:
 1. COURT COLORS AND GRAPHIC TO BE DETERMINED AND APPROVED BY OWNER AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
 2. ACRYLIC COATING TO BE MATTE, NON-GLARE FINISH

SPORTS SCHEDULE			
SYMBOL	DESCRIPTION	QTY	DETAIL
SP-101	ACRYLIC COATED CONCRETE BASKETBALL COURT	4,700 SF	5/SF4.00
SP-105	BASKET BALL GOAL, IN-GROUND MOUNTED, HOT-DIP GALVANIZED STEEL OR POWDER-COATED STEEL POST, 5-9/16" DIAMETER; BACKBOARD SPECS - 72" WIDE, 42" TALL, RECTANGULAR, RIGID MATERIAL, WHITE OR TRANSPARENT COLOR; FOLLOW NFHS STANDARDS FOR MARKINGS; BACKBOARD POSITIONING - FROM TOP EDGE OF BACKBOARD TO THE FFE OF COURT SURFACE SHALL BE 13 FT OF DISTANCE.	2	

NOTE:
 SCHEDULE QUANTITIES REPRESENT QUANTITIES FOR EACH FIELD, AND NOT REFLECT QUANTITIES FOR THE ENTIRE SITE OR MULTIPLE FIELDS/COURTS



SITE KEY PLAN
N.T.S.

CONCRETE COURT NOTES:

- RECOMMENDED COURT SLOPE:
FROM: 0.83%
TO: 1.00%
- THE UPPER LEVEL OF SOIL SHALL BE STRIPPED OF TOPSOIL AND ORGANIC MATERIAL.
- WWM, 6"X6" 6 GAUGE IN CENTER OF SLAB. TURN DOWN AT THICKEN EDGES.
- EXPANSION JOINTS (E.J.) TO OCCUR ADJACENT TO ALL COLD POURS INCLUDING ROAD CURBS, GRADE TRANSITION WALLS, BACK-OF-CURBS & AT ALL VERTICAL SURFACES INCLUDING BLDG. SLABS, SEATWALLS, & PLANTER CURBS.
- EXPANSION JOINTS SHALL BE 10-15' O.C. MAX. IN EACH DIRECTION.
- CONTROL JOINTS (C.J.) SHALL BE PLACED IN ALL CONC. SLABS INCLUDING TYP. SIDEWALKS & CONC. BANDS. LOCATE CONTROL JOINTS (C.J.) 10-15' O.C. MAX. IN EACH DIRECTION.
- JOINT SEALANT, COLOR TO MATCH PAVEMENT, SAMPLE REQ'D.
- SAWN CONTROL JOINT TO BE CUT AS SOON AS SLAB IS FIRM ENOUGH TO WALK ON; 1/4" SAWN CONTROL JOINT, TYP., UNLESS OTHERWISE NOTED
- COVER THE SLAB WITH PLASTIC-TARP TO REDUCE WIND AND TEMPERATURE CHANGES THAT CAUSE CRACKING.

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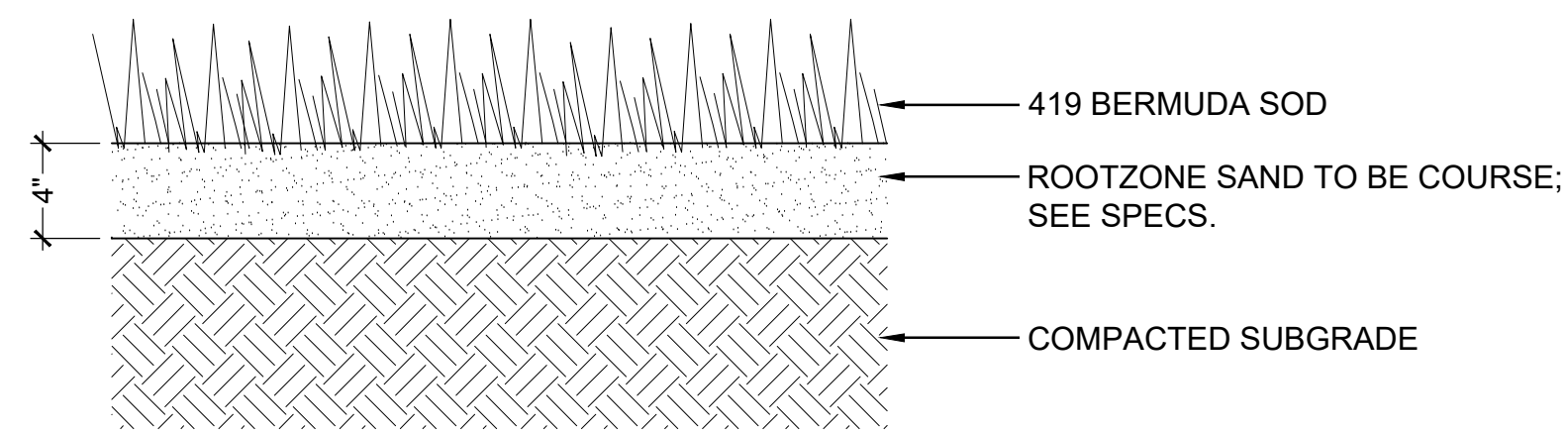
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INTEGRITY PARK PHASE II
 CITY OF SPANISH FORT
 SPANISH FORT, ALABAMA

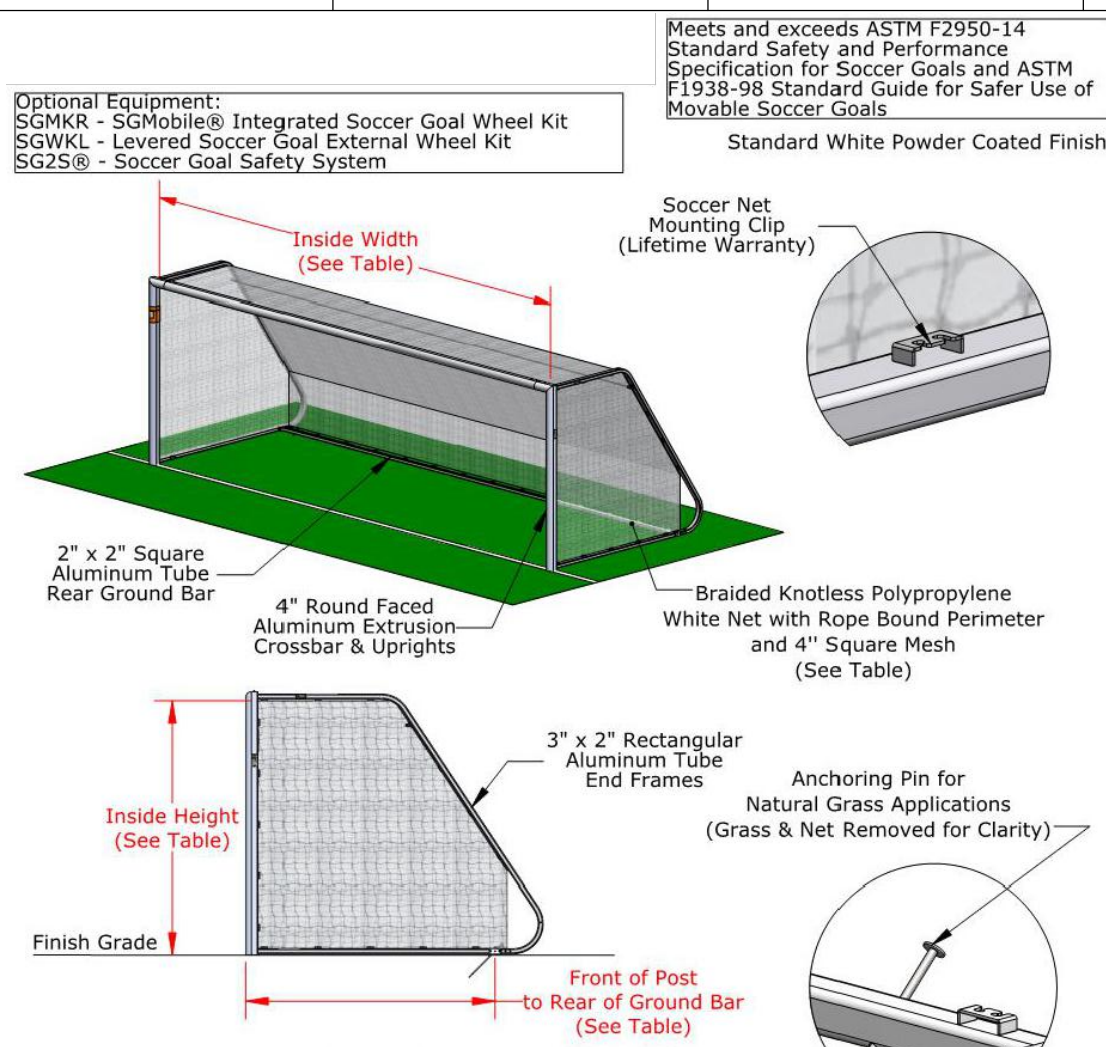
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FIELD TYPICAL -
 BASKETBALL COURT

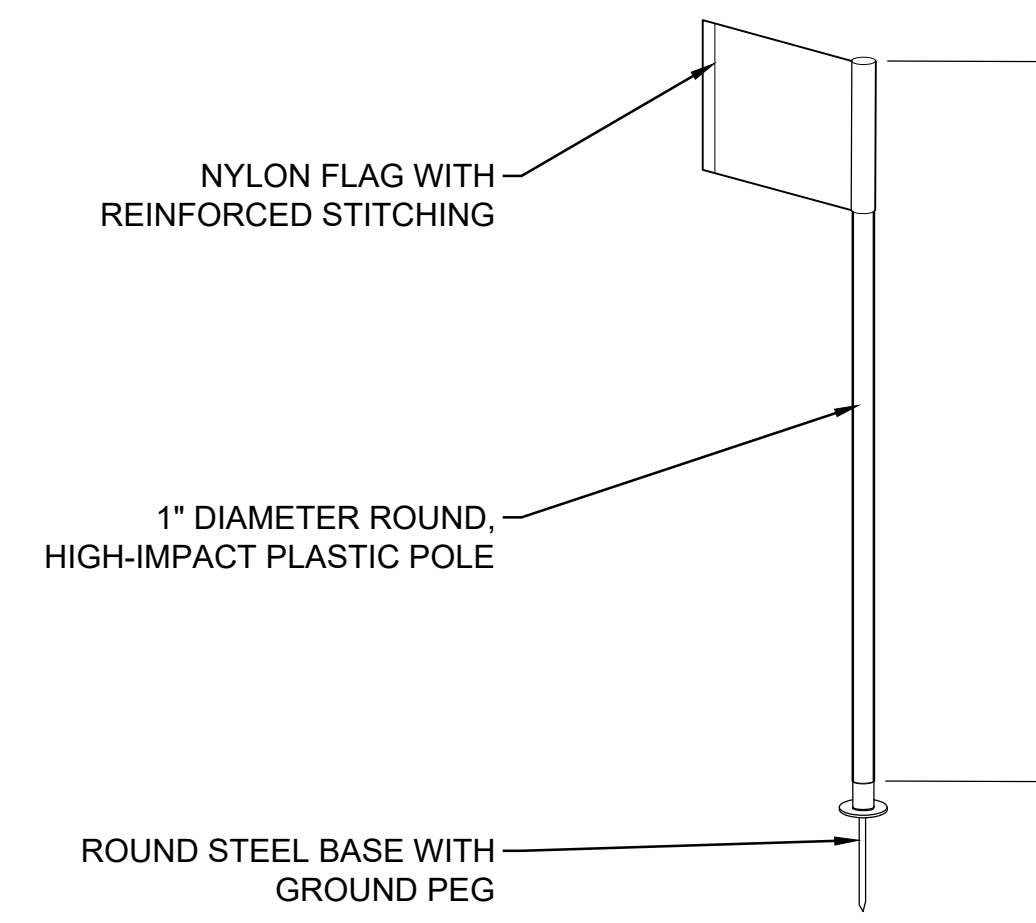
SF3.00



1 DETAIL-4" SAND CAP -NATURAL GRASS FIELD
1 1/2" = 1'-0"

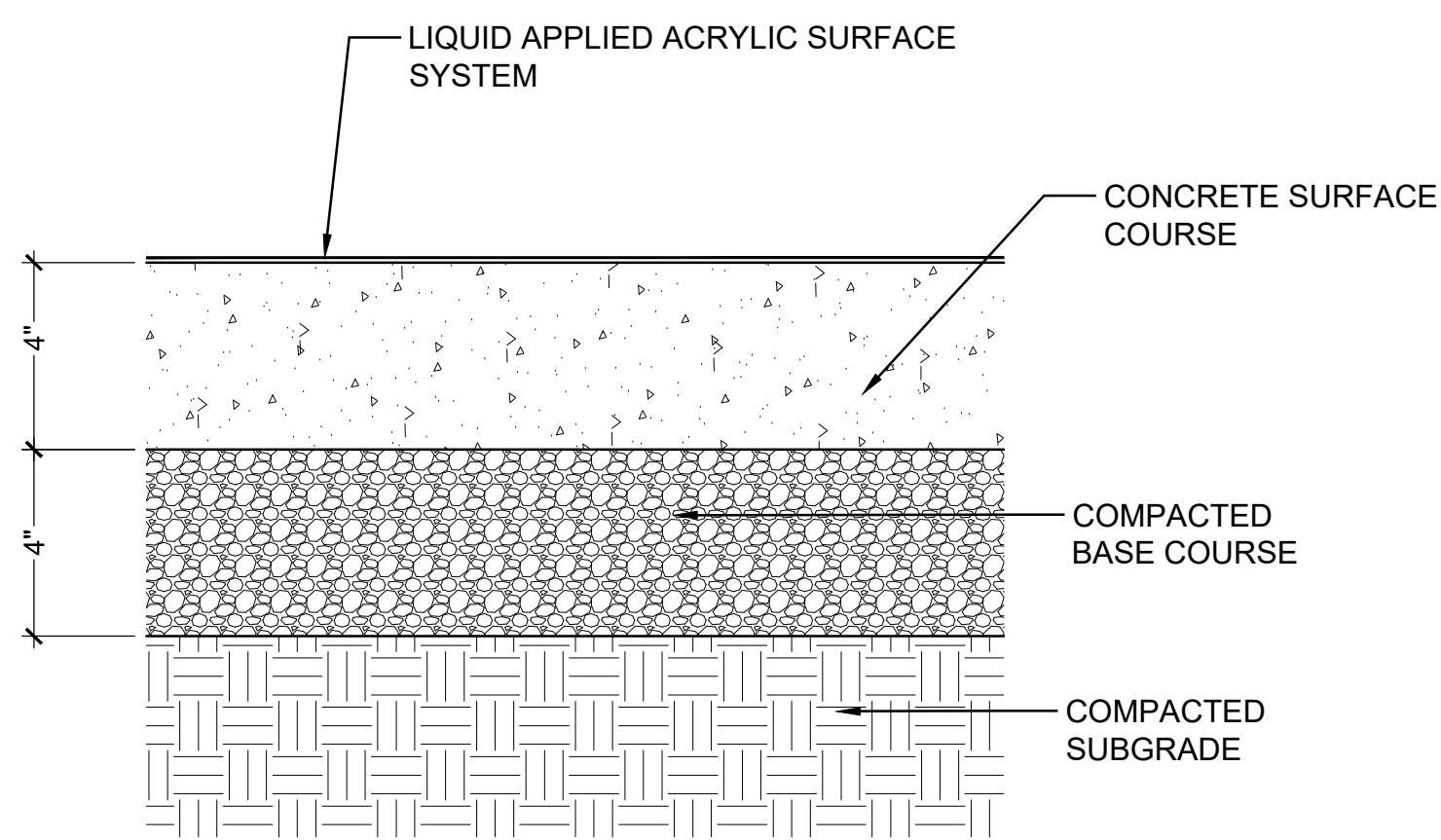


2 DETAIL: SPORTSFIELD SPECIALTIES SOCCER GOAL
N.T.S.

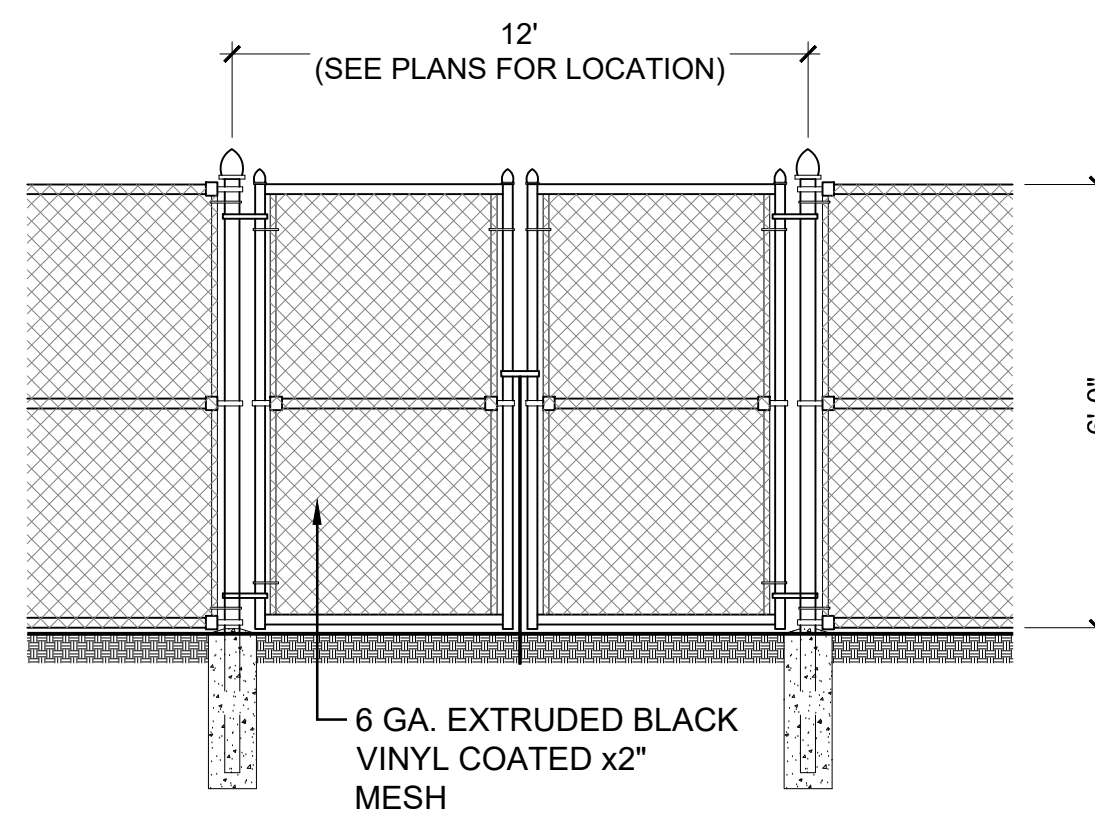


3 DETAIL: SOCCER CORNER FLAGS
3/4" = 1'-0"

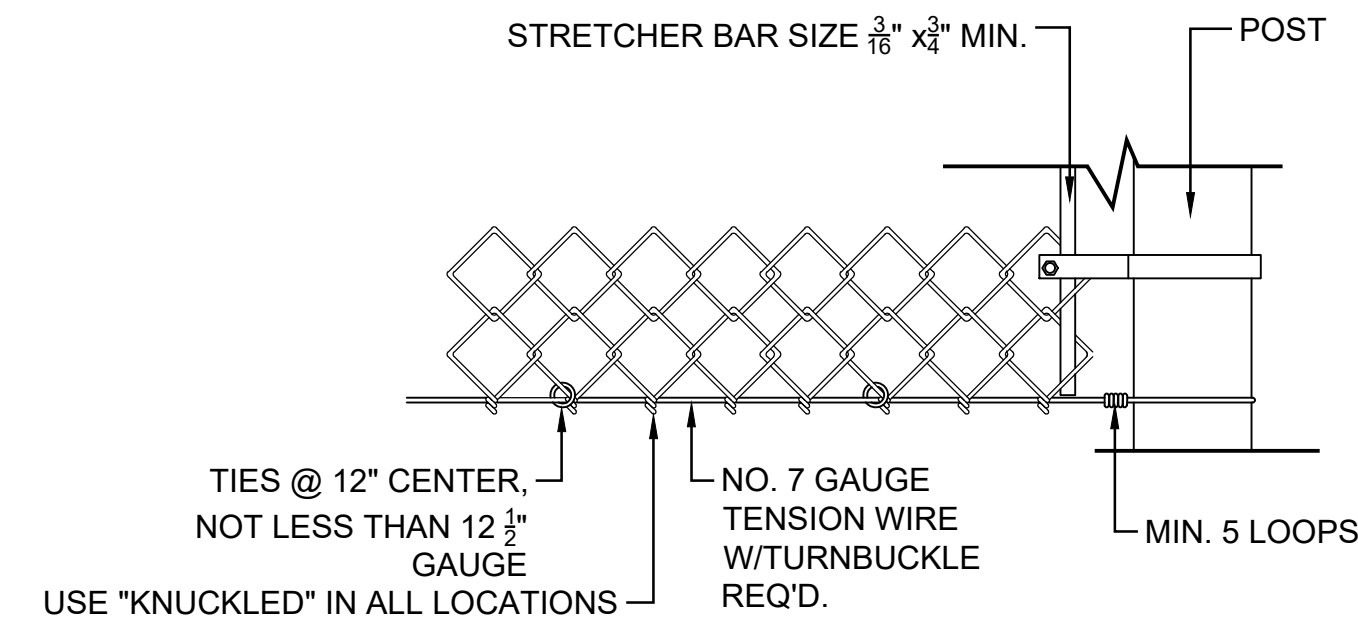
NOTE:
RECOMMENDED COURT SLOPE:
FROM: 0.83%
TO: 1.00%



4 CONCRETE COURT WITH ACRYLIC COATING
3" = 1'-0"

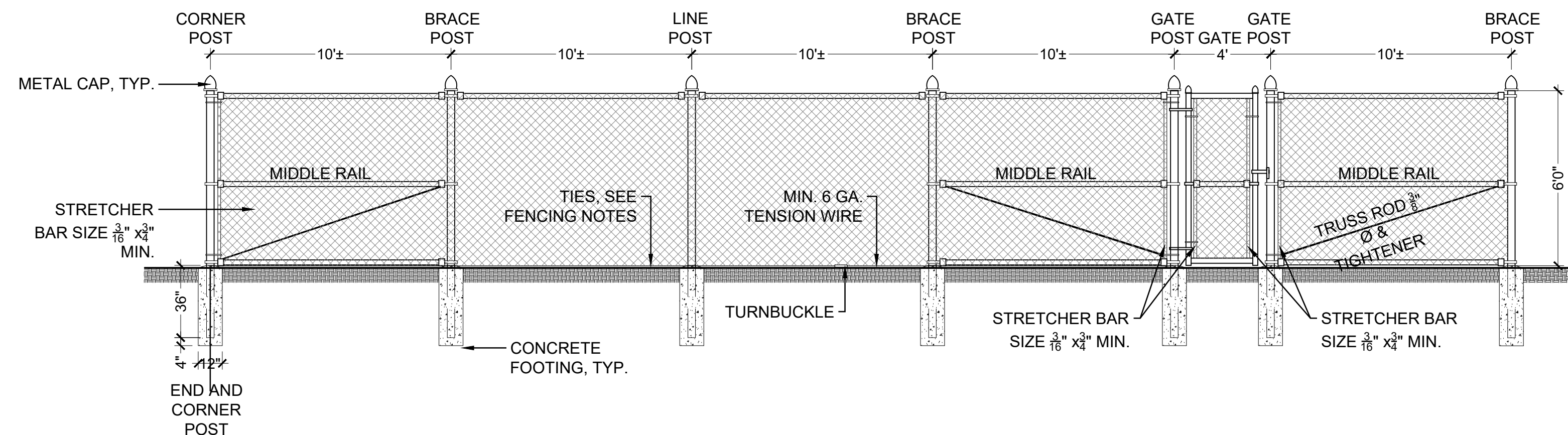


5 GATE DETAIL - 12' WIDE
N.T.S.



NOTE:
WRAP NO. 7 GAUGE TENSION WIRE 1 1/2" LOOPS UNDER TENSION AROUND ALL POSTS AT BOTTOM, EXCEPT CORNER AND INTERMEDIATE BRACE BAYS WHICH WILL BE TIE.

6 CHAIN LINK FENCE BOTTOM RAIL DETAIL
3" = 1'-0"

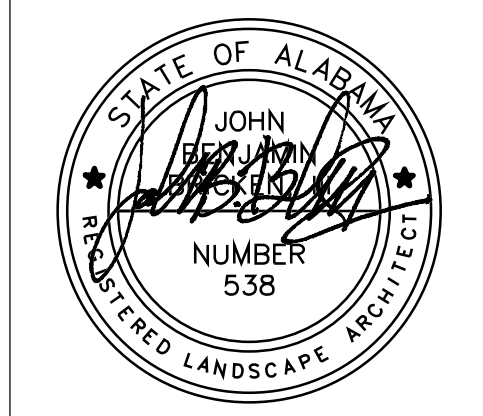


7 CHAIN LINK FENCE LINE DETAIL 6' HT
1/4" = 1'-0"

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SPORTSFIELD AND
FENCING DETAILS
SF4.00

L1.02

L1.01

L1.03

L1.04

L1.05

GMC

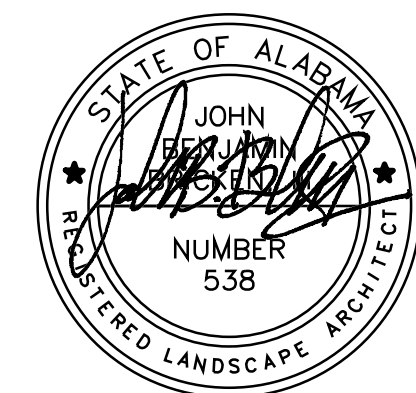
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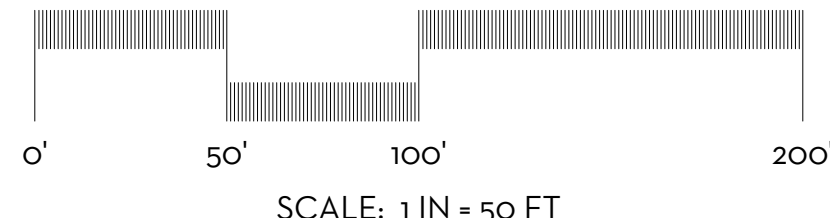
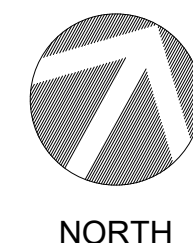
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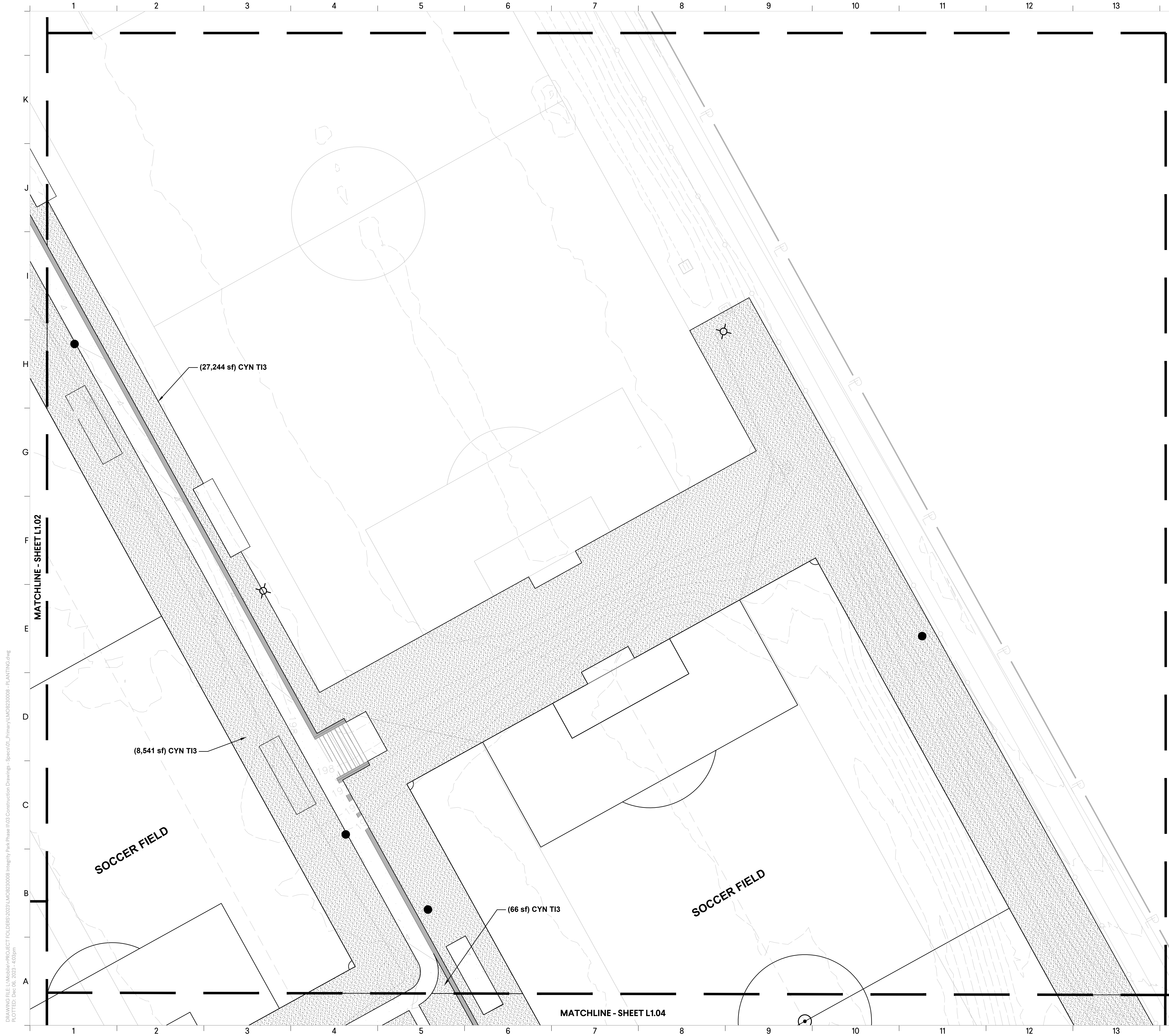


OVERALL
PLANTING PLAN

L1.00



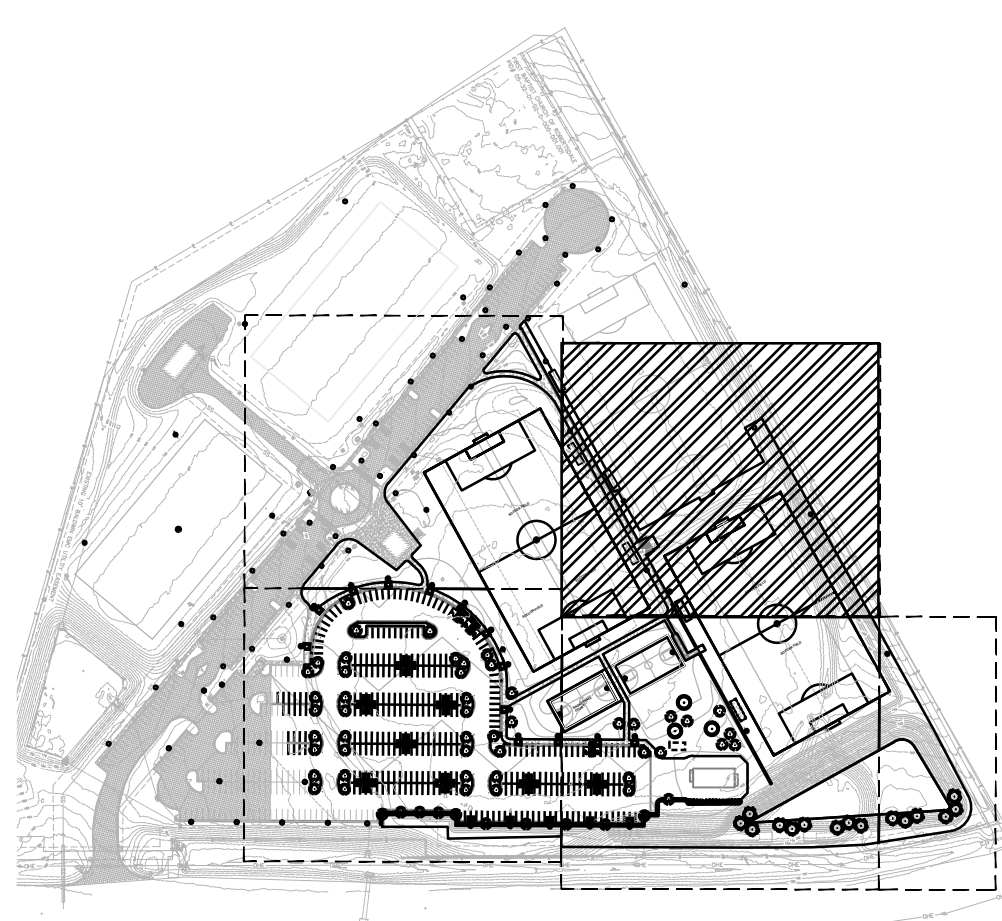
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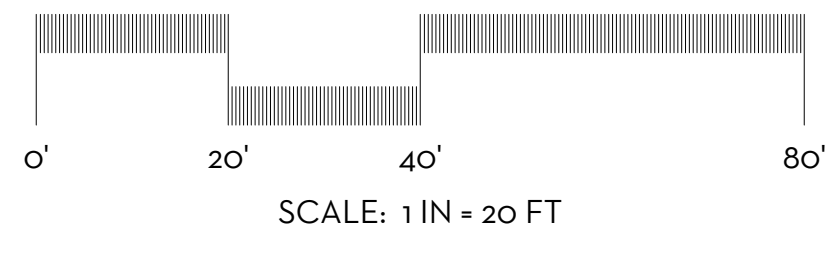
PLANT SCHEDULE	
CODE	BOTANICAL / COMMON NAME
TREES	
JUN BR2	JUNIPERUS VIRGINIANA 'BRODIE'
QUE PHE	BRODIE EASTERN REDCEDAR
QUE VIR	QUERCUS PHELLOS
TAX DIS	WILLOW OAK
	QUERCUS VIRGINIANA
	SOUTHERN LIVE OAK
	TAXODIUM DISTICHUM
	BALD CYPRESS
SHRUBS	
BUX WGM	BUXUS MICROPHYLLA JAPONICA 'WINTER GEM'
	WINTER GEM JAPANESE BOXWOOD
SOD/SEED	
CYN TI3	CYNODON DACTYLON 'TIF 419'
	TIF 419 BERMUDAGRASS

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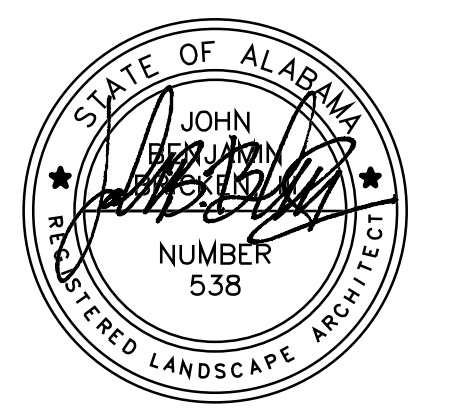


SITE KEY PLAN
 N.T.S.



INTEGRITY PARK PHASE II
 CITY OF SPANISH FORT
 SPANISH FORT, ALABAMA

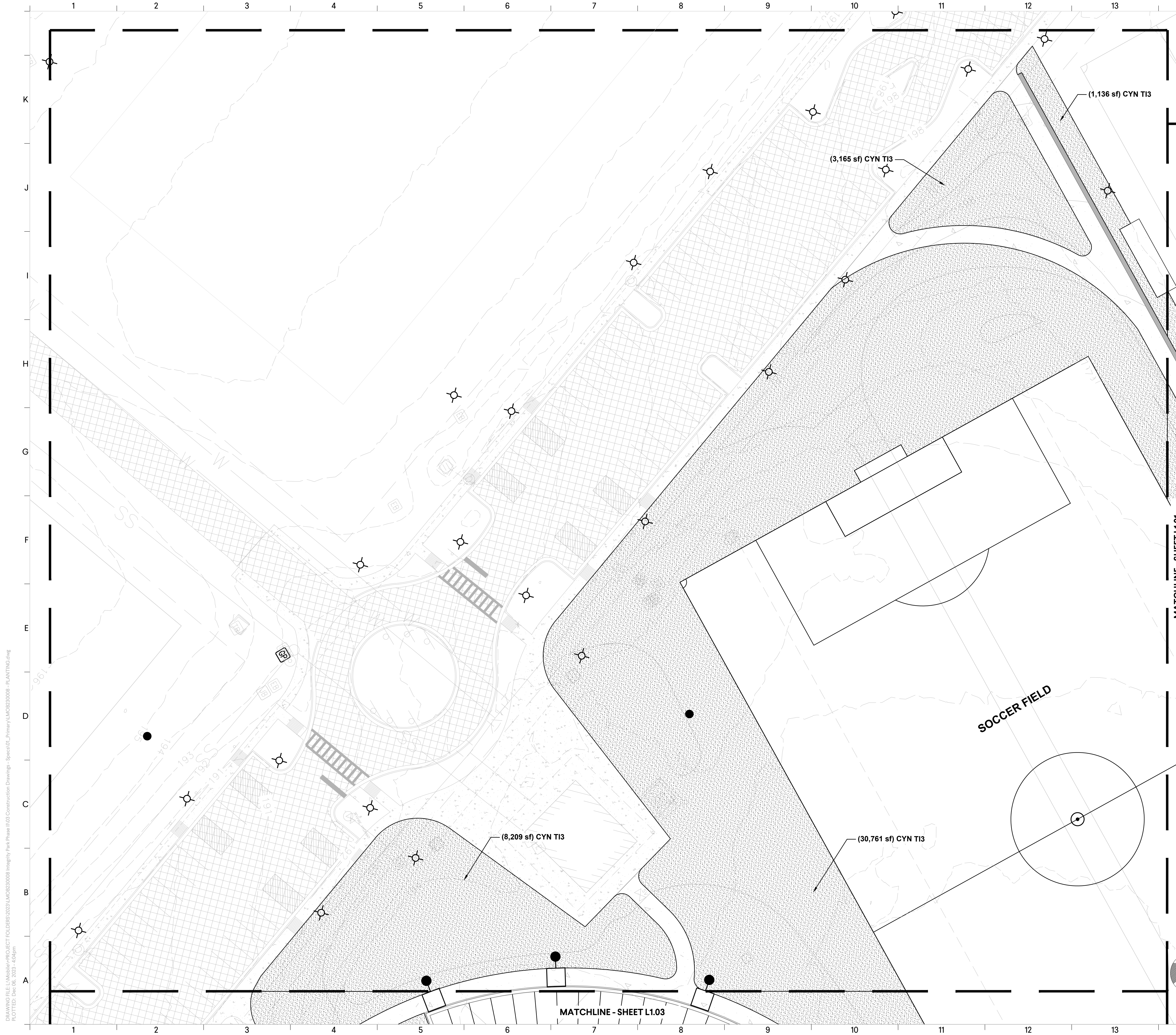
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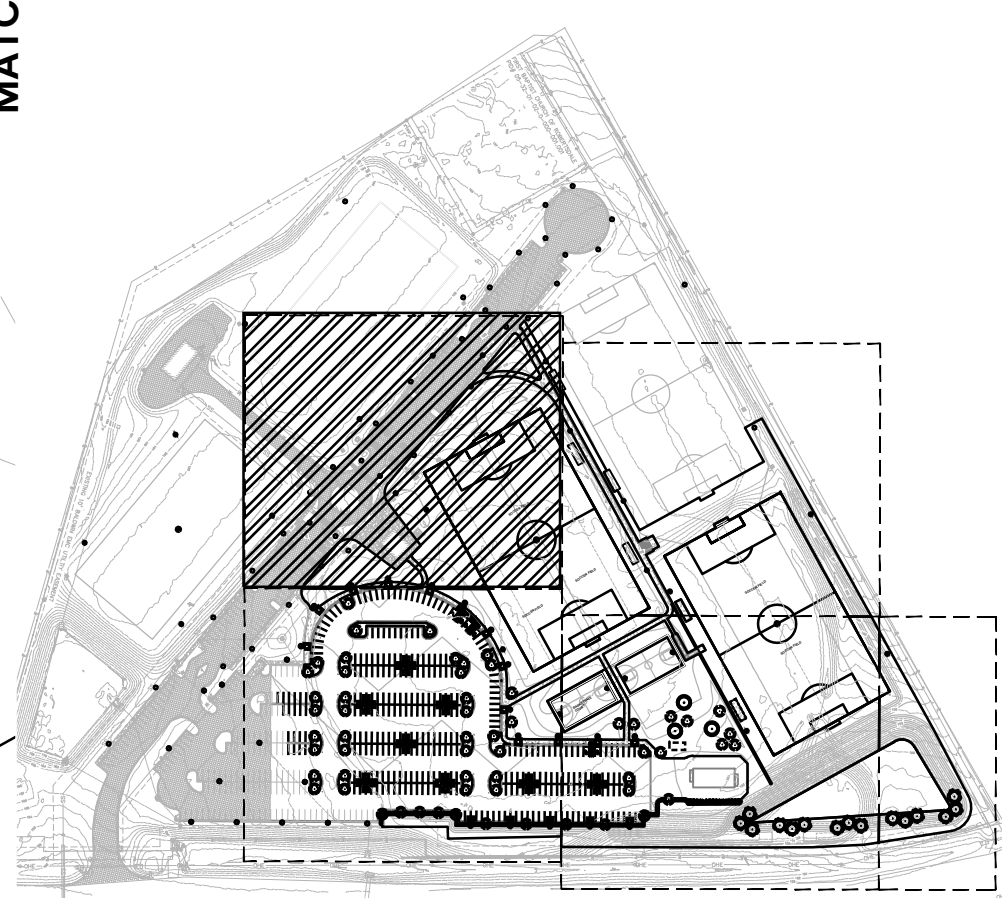
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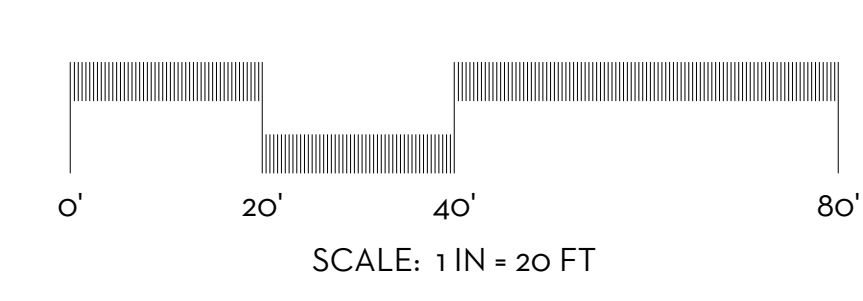
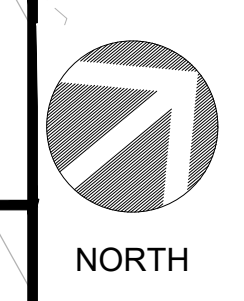


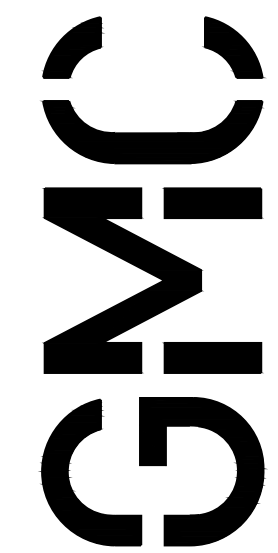
PLANT SCHEDULE	
CODE	BOTANICAL / COMMON NAME
TREES	
JUN BR2	JUNIPERUS VIRGINIANA 'BRODIE'
BRODIE EASTERN REDCEDAR	
QUE PHE	QUERCUS PHELLOS
WILLOW OAK	
QUE VIR	QUERCUS VIRGINIANA
SOUTHERN LIVE OAK	
TAX DIS	TAXODIUM DISTICHUM
BALD CYPRESS	
SHRUBS	
BUX WGM	BUXUS MICROPHYLLA JAPONICA 'WINTER GEM'
WINTER GEM JAPANESE BOXWOOD	
SOD/SEED	
CYN T13	CYNODON DACTYLON 'TIF 419'
TIF 419 BERMUDAGRASS	

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SPANISH FORT, ALABAMA

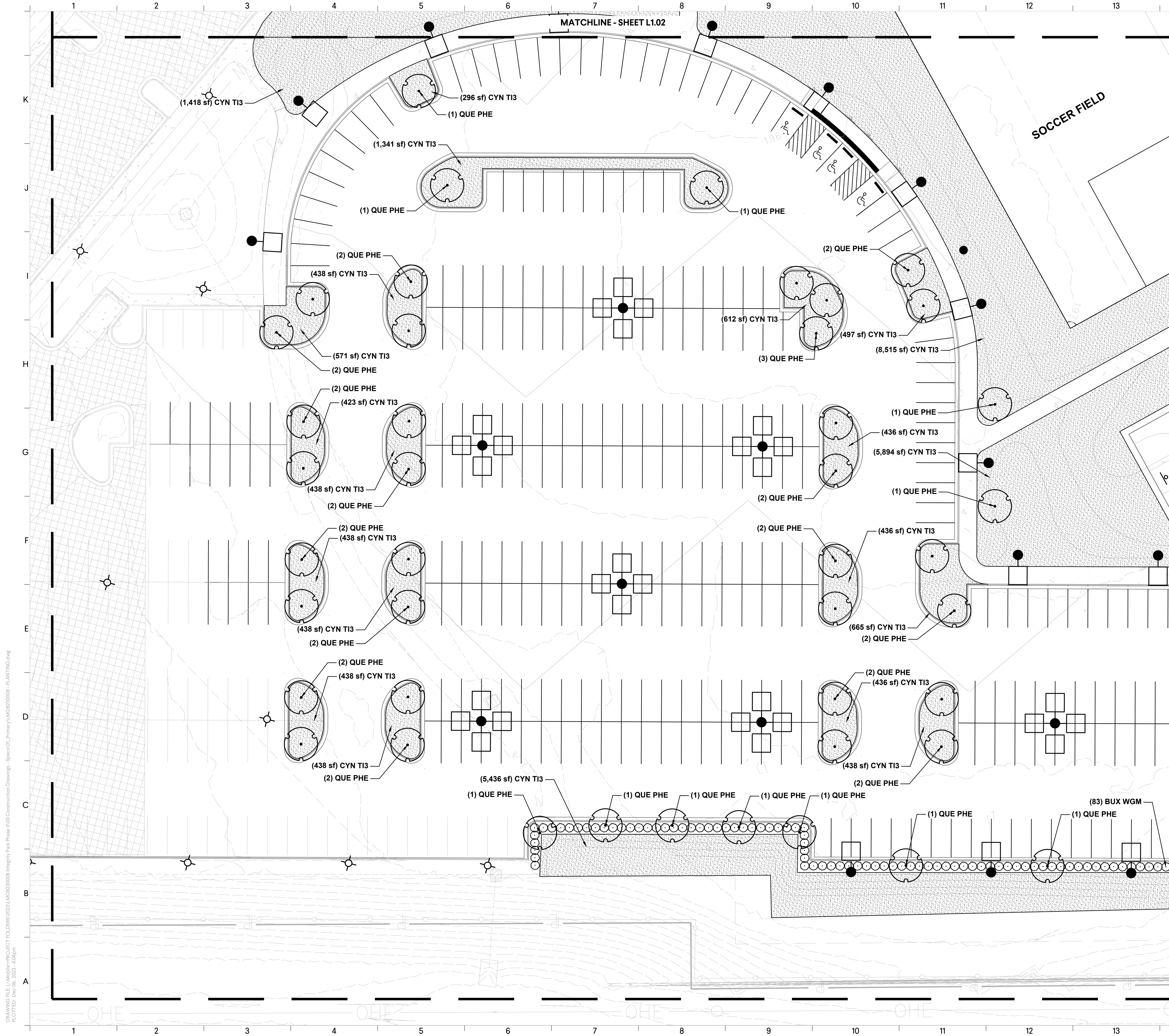
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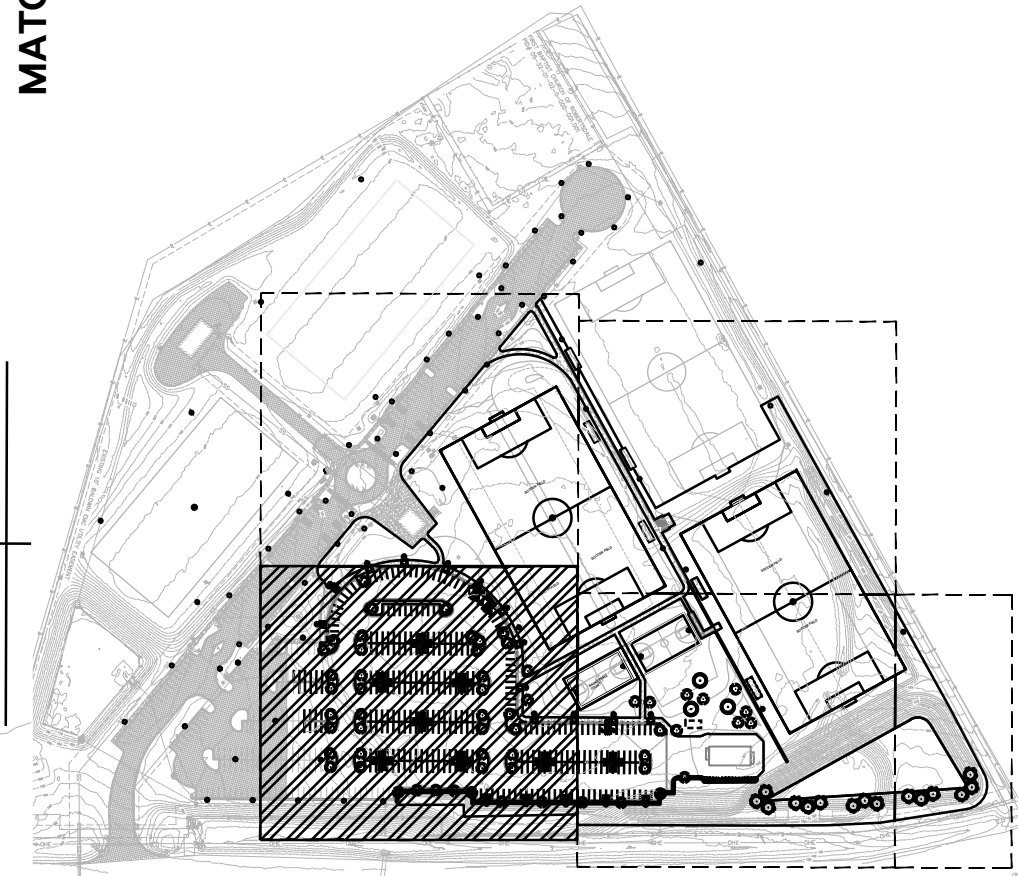
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L1.02

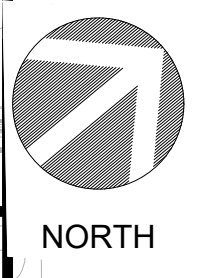
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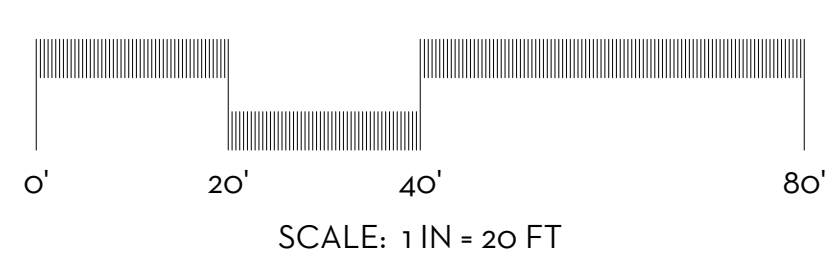
PLANT SCHEDULE	
CODE	BOTANICAL / COMMON NAME
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BRODIE EASTERN REDCEDAR	BRODIE EASTERN REDCEDAR
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SOUTHERN LIVE OAK	SOUTHERN LIVE OAK
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BALD CYPRESS	BALD CYPRESS
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BUX WGM	BUXUS MICROPHYLLA JAPONICA 'WINTER GEM'
WINTER GEM JAPANESE BOXWOOD	WINTER GEM JAPANESE BOXWOOD
SOD/SEED	
CYN TI3	CYNODON DACTYLON 'TIF 419'
TIF 419 BERMUDAGRASS	TIF 419 BERMUDAGRASS



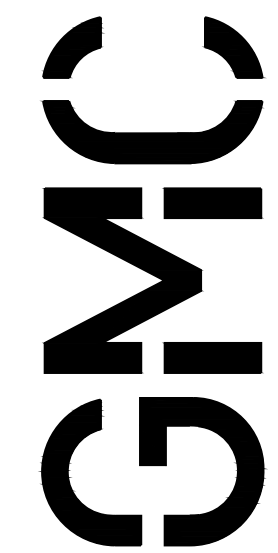
SITE KEY PLAN
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NORTH



SCALE: 1 IN = 20 FT

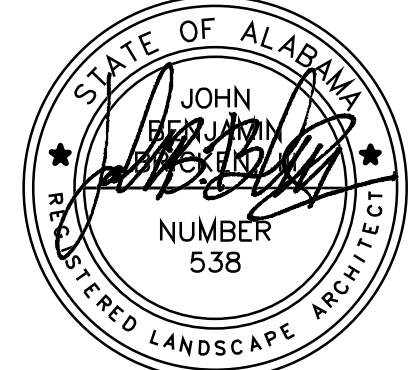


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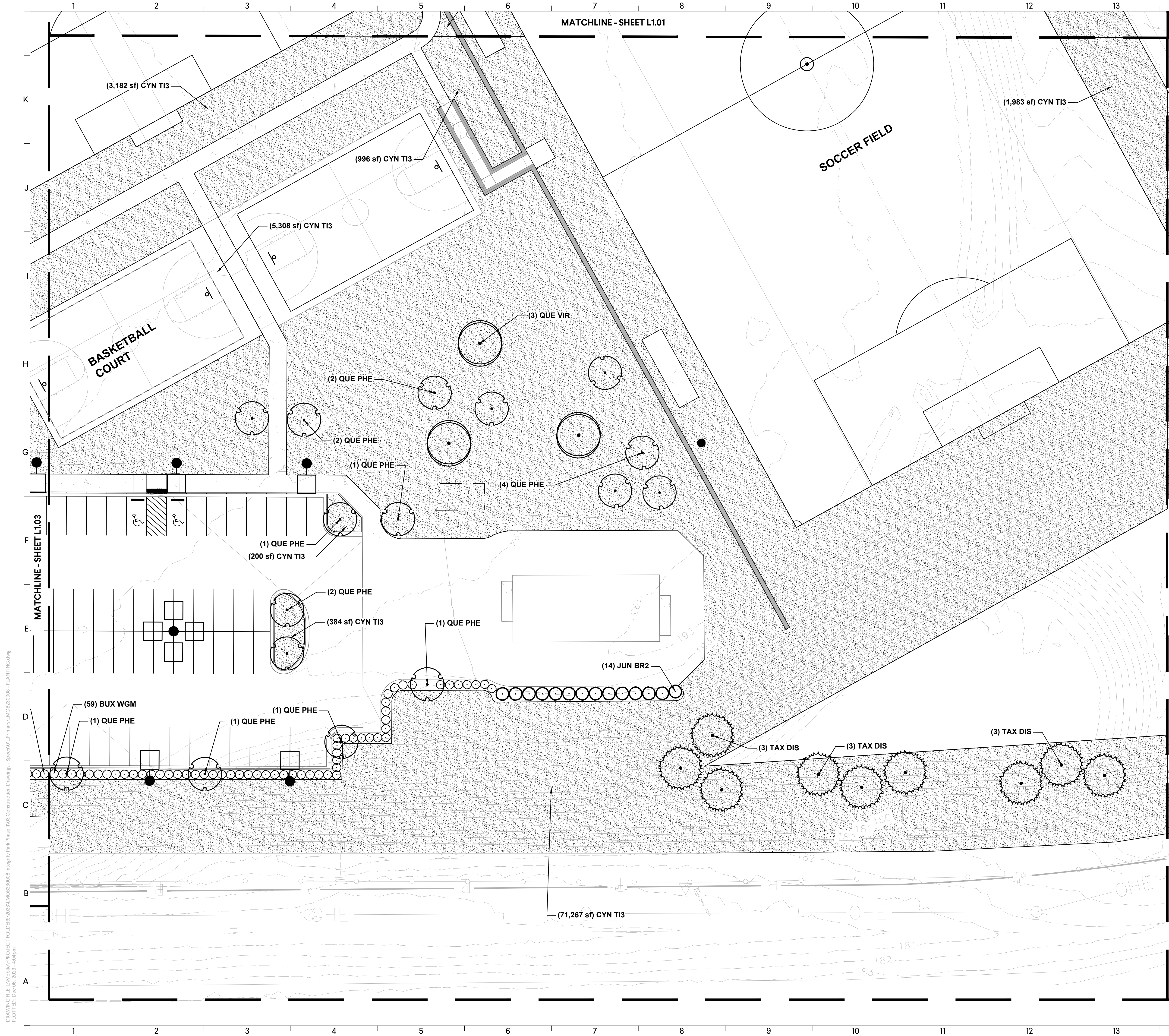
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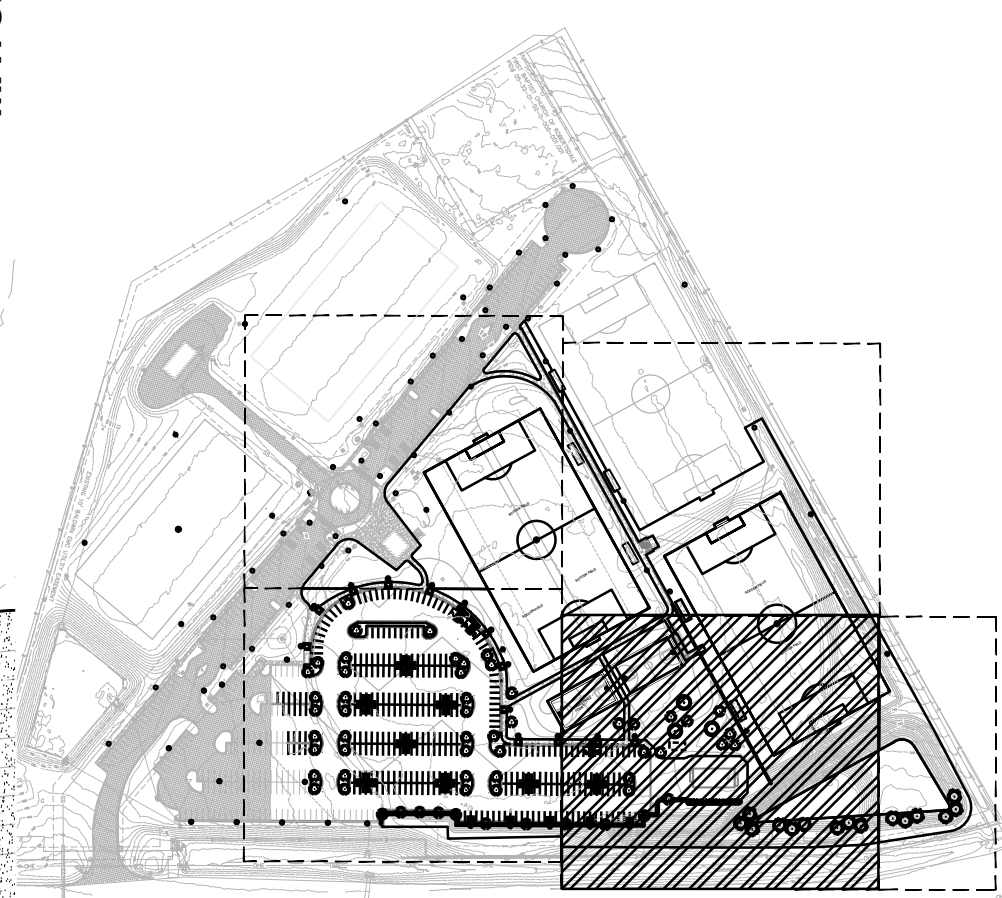
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L1.03

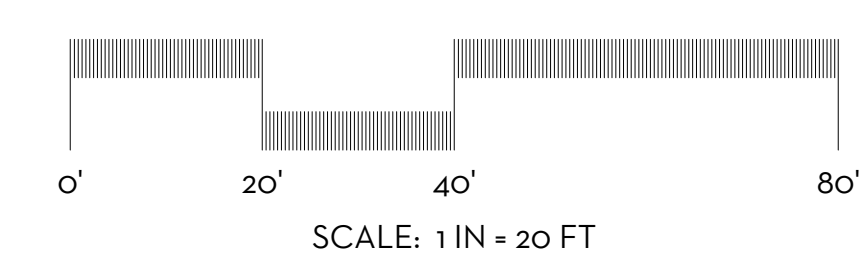
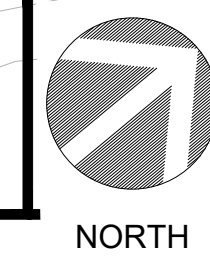
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TREES	
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QUE PHE	BRODIE EASTERN REDCEDAR
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TAX DIS	WILLOW OAK
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SITE KEY PLAN
N.T.S.

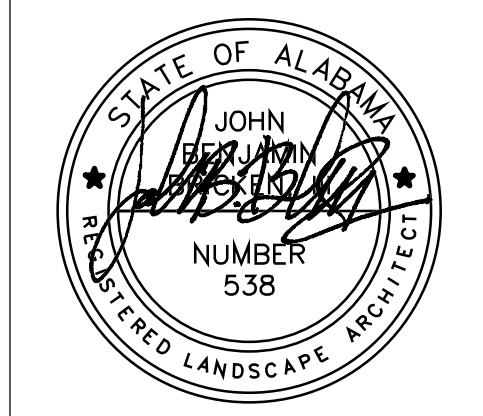


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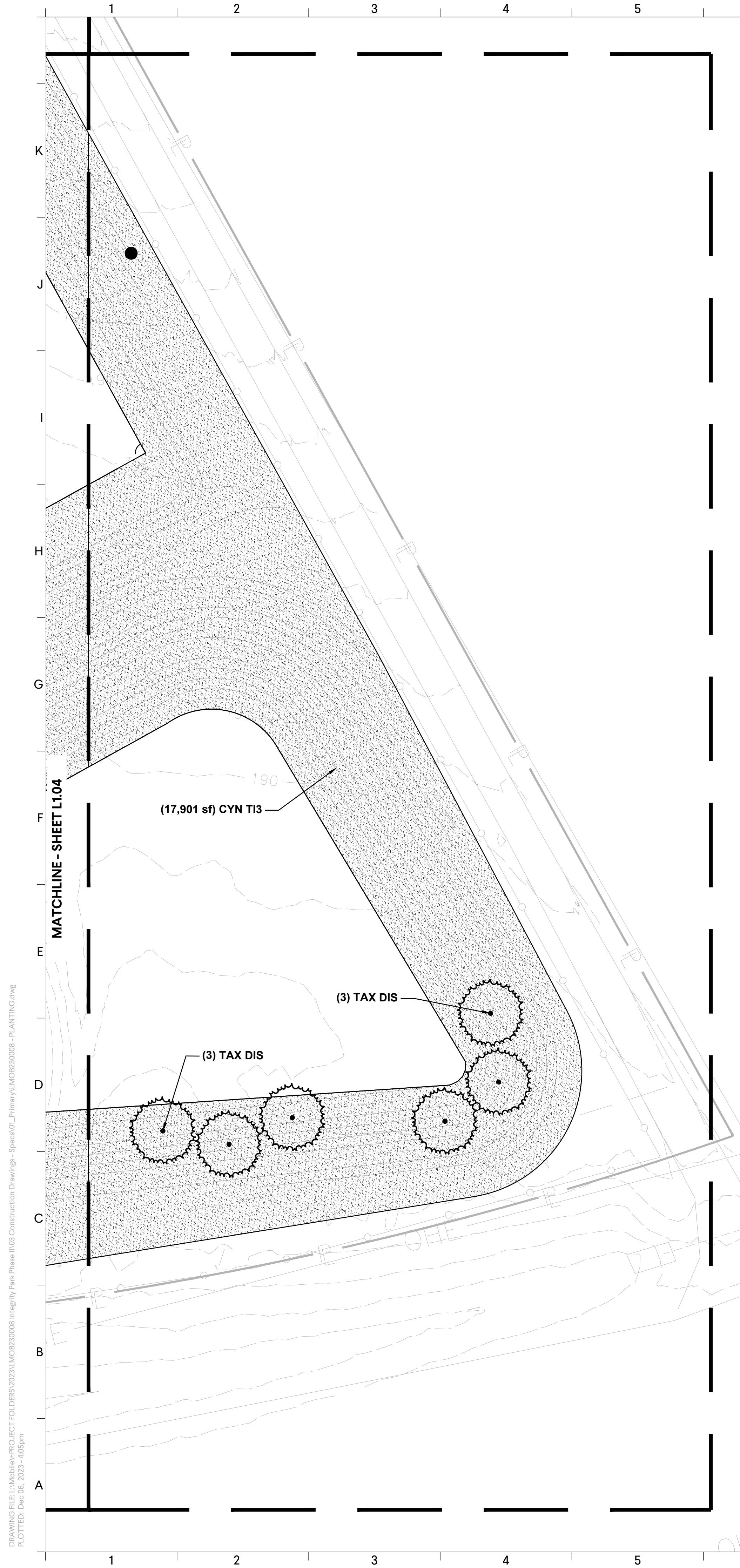
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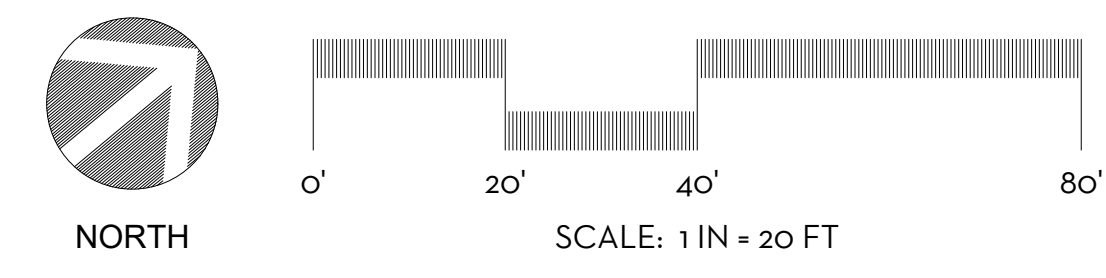
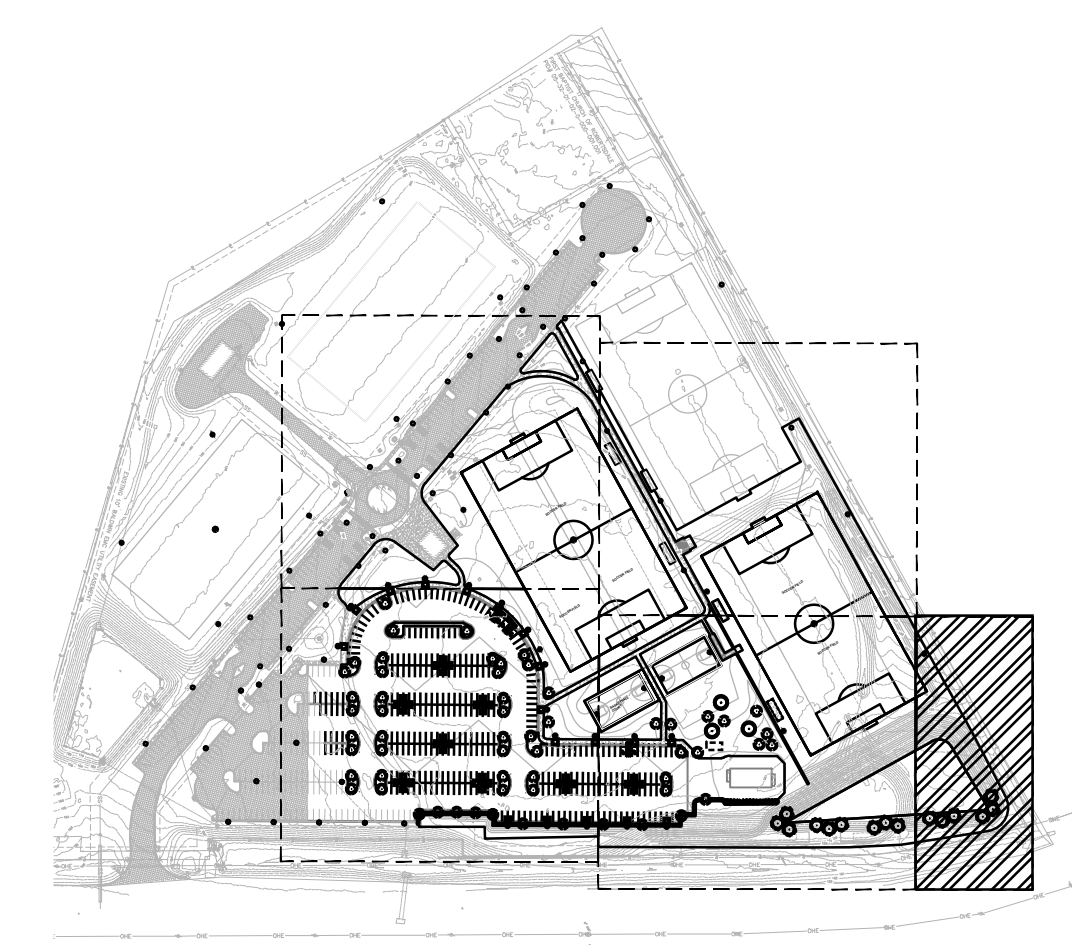
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PLANT SCHEDULE	
CODE	BOTANICAL / COMMON NAME
TREES	
JUN BR2	JUNIPERUS VIRGINIANA 'BRODIE'
QUE PHE	BRODIE EASTERN REDCEDAR
QUE VIR	QUERCUS PHELLOS
TAX DIS	WILLOW OAK
	QUERCUS VIRGINIANA
	SOUTHERN LIVE OAK
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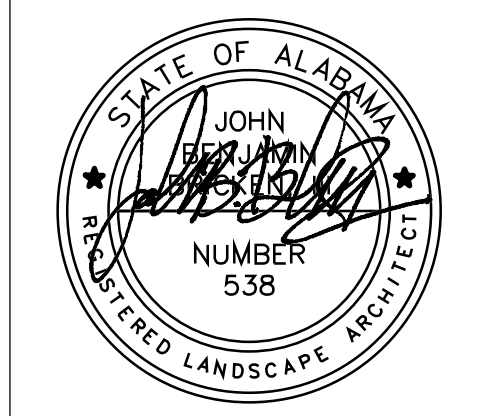


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PLANTING PLAN

L1.05

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PLANT PROTECTION & REMOVAL NOTES

- TREES INDICATED TO REMAIN SHALL BE PROTECTED WITH FENCING AT THE LIMITS OF THE GREATER OF EITHER THE CRITICAL ROOT ZONE OR CANOPY DRIP-LINE UNLESS OTHERWISE INDICATED IN THE DRAWINGS.
 - THE CRITICAL ROOT ZONE SHALL BE DETERMINED BY MULTIPLYING THE DBH(IN FEET) BY 15 AND RADIATING OUT FROM THE TREE TRUNK.
- BEFORE GRADING/CONSTRUCTION BEGINS, THE CONTRACTOR SHALL CALL THE LANDSCAPE ARCHITECT FOR REVIEW OF TREE PROTECTION FENCING.
- TREE PROTECTION ZONES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT. NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS OR STAGING, TRAFFIC, BURIAL PITS, TRENCHING, OR OTHER LAND DISTURBING ACTIVITY IS ALLOWED IN THE TREE PROTECTION ZONE UNLESS AUTHORIZED IN WRITING BY THE LANDSCAPE ARCHITECT
- TREES THAT ARE DAMAGED WITHIN THE BOUNDARIES OF THE TREE PROTECTION ZONE SHALL BE EVALUATED BY AN ARBORIST OR FORESTER FROM THE JURISDICTION HAVING AUTHORITY AT NO EXPENSE TO OWNER, BASED ON THE EVALUATION, THE TREE MAY BE APPRAISED BY THE LANDSCAPE ARCHITECT USING THE "TRUNK FORMULA METHOD" & THE VALUE OF THE TREE SHALL BE CREDITED TO THE OWNER.
- COORDINATE WITH CITY FORESTER PRIOR TO CONDUCTING ANY TREE REMOVAL OR PRUNING.
- TREES INDICATED FOR REMOVAL SHALL ALSO INCLUDE REMOVAL OF STUMP AND ROOTS AND FILLING IN DEPRESSION WITH SUITABLE SOIL INFILL.

PLANT INSTALLATION NOTES

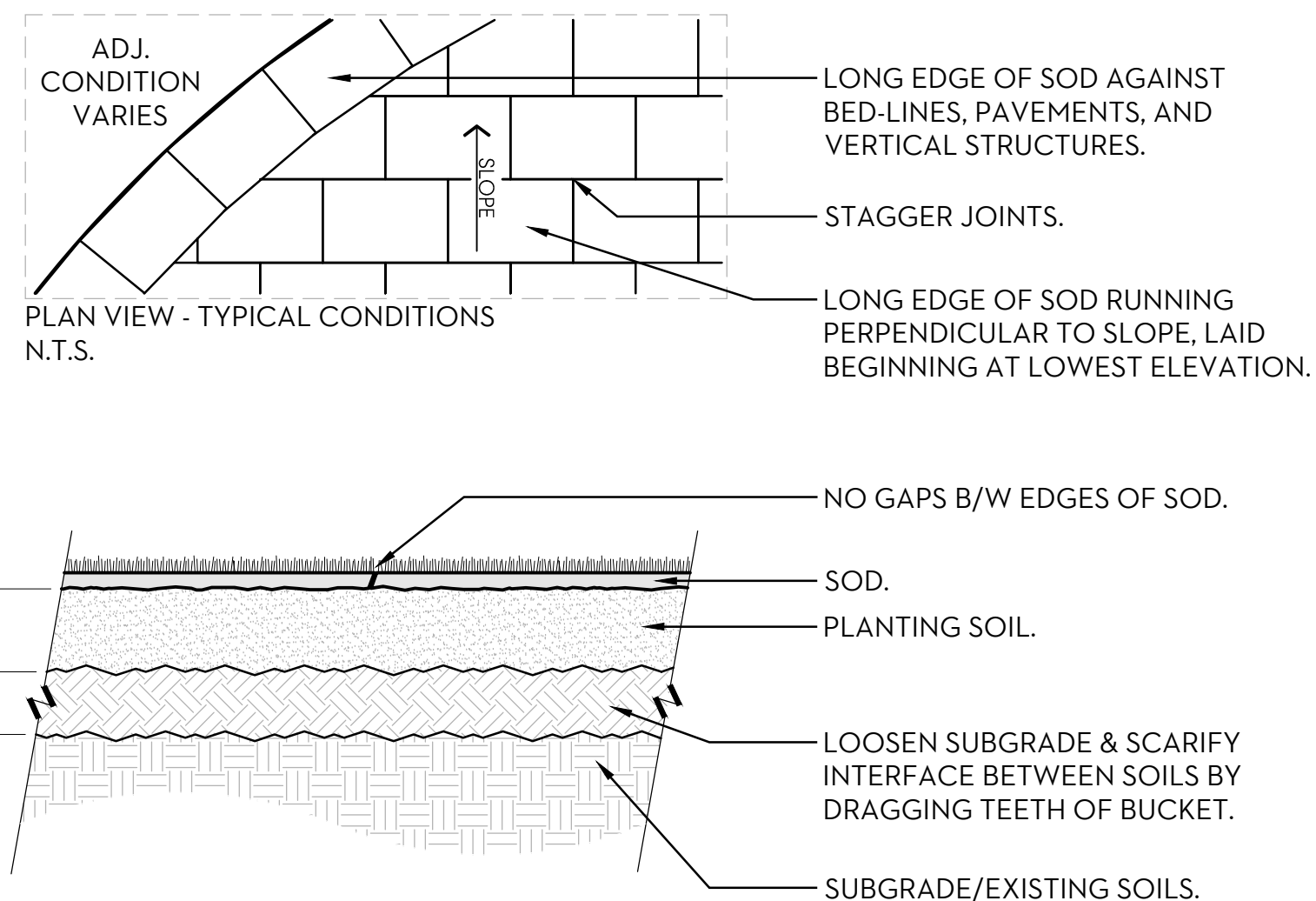
- PLANT NAMES MAY BE ABBREVIATED ON DRAWINGS. REFER TO PLANT SCHEDULE FOR ABBREVIATIONS, BOTANICAL & COMMON NAMES, SIZES, ESTIMATED QUANTITIES AND OTHER REMARKS.
- CONTRACTOR SHALL VERIFY THE TOTAL QUANTITIES INDICATED IN THE PLANT LIST WITH THE QUANTITIES SHOWN ON THE PLAN. CONTRACTOR SHALL PROVIDE QUANTITIES REQUIRED TO COMPLETE PROPOSED PLANTING AS INDICATED ON THE PLAN.
- CONTRACTOR SHALL GIVE THE LANDSCAPE ARCHITECT THE OPPORTUNITY TO TAG & REVIEW TREES IN THE NURSERY OR FIELD PRIOR TO DIGGING.
- ALL PLANT/ROOTBALL SIZES & THE METHOD OF DETERMINING TREE CALIPER SHALL CONFORM TO THE RECOMMENDATIONS OF THE LATEST EDITION OF ANSI Z60.1 - AMERICAN STANDARD FOR NURSERY STOCK.
- ANY & ALL PLANT SUBSTITUTIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PURCHASE & INSTALLATION.
- THE LANDSCAPE ARCHITECT MAY REJECT ANY PLANT AT ANY TIME UNTIL THE END OF THE WARRANTY PERIOD. PLANTS THAT RECEIVED A PRIOR APPROVAL ARE NOT EXCLUDED FROM REJECTION AT A LATER DATE. GROUNDS FOR REJECTION INCLUDE BUT ARE NOT LIMITED TO:
 - NON-CONFORMANCE WITH CRITERIA DESCRIBED IN PLANT SCHEDULE.
 - THE PRESENCE, EVIDENCE, OR DAMAGE FROM DISEASE, INSECTS/PESTS, EGGS, & LARVAE.
 - GIRDLED & KINKED ROOTS, CRACKED/BROKEN ROOT BALLS, MECHANICALLY DAMAGED ROOTS.
 - BROKEN LIMBS, INCLUDED BARK, OR EVIDENCE OF MECHANICAL INJURY.
 - PLANTS THAT ARE NOT FULL/DENSE, WELL BRANCHED, OR SYMMETRICAL UNLESS IT IS UNCHARACTERISTIC OF SPECIFIED SPECIES.
 - PLANTS DETERMINED AT THE DISCRETION OF THE LANDSCAPE ARCHITECT TO BE AESTHETICALLY DEAD WHERE APPROXIMATELY 25% OR MORE OF THE PLANT IS SHOWING SIGNS OF DEATH/DIEBACK.
 - SHIPMENT TO THE SITE IN UNCOVERED VEHICLES/TRAILERS REGARDLESS OF SEASON.
- REMOVE FROM SITE ANY & ALL EXISTING VEGETATION INCLUDING STUMPS & ROOTS IN CONFLICT WITH PLANTING PLAN UNLESS EXPLICITLY DESIGNATED FOR PROTECTION.
- LAYOUT ALL TREES & BED-LINES AS INDICATED IN THE LANDSCAPE DRAWINGS AND RECEIVE APPROVAL FROM THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. LAYOUT SHALL BE DONE WITH HIGH VISIBILITY FLAGS AND/OR WOODEN STAKES & BED-LINES SHALL BE LAID OUT WITH MARKING PAINT. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE LAYOUT ADJUSTMENTS AS NECESSARY AT NO ADDITIONAL COST TO OWNER. NOTIFY LANDSCAPE ARCHITECT OF CONTEMPLATED ADJUSTMENTS TO THE LAYOUT & RECEIVE APPROVAL PRIOR TO COMMENCING WITH ADJUSTMENT.
- DO NOT INSTALL PLANTS IN SATURATED OR FROZEN CONDITIONS. DO NOT INSTALL PLANTS DURING INCLEMENT WEATHER.
- SET ALL PLANTS PLUMB & TURNED SO THAT THE MOST ATTRACTIVE SIDE IS MOST COMMONLY VIEWED. MAINTAIN IN PLUMB POSITION THROUGHOUT WARRANTY PERIOD.
- ALL PLANTING BEDS AND TREES SHALL BE MULCHED WITH 3-4 IN. OF SETTLED PINE STRAW THAT IS FREE FROM DEBRIS, LEAVES, TWIGS, INSECTS, GRASSES, WEEDS, PLANTS AND THEIR SEEDS, AND ANY SUBSTANCE HARMFUL TO PLANT GROWTH. PINE STRAW MULCH SHALL BE TUCKED & ROLLED AT ALL EDGES.
 - TREES PLACED IN SODDED/TURFGRASS AREAS SHALL BE MULCHED WITH AN 8 FT. DIAMETER MULCH RING UNLESS OTHERWISE NOTED ON PLANS.
- CONTRACTOR TO PROVIDE INTERIM MAINTENANCE UNTIL SUBSTANTIAL COMPLETION NOTICE IS PROVIDED BY THE LANDSCAPE ARCHITECT. THIS INCLUDES:
 - WATERING
 - MOWING, TRIMMING, EDGING, BLOWING & WEEDING.
 - FERTILIZING & APPLICATION OF NECESSARY INSECTICIDES/HERBICIDES
 - GUYING TREES WHEN DIRECTED BY OWNER OR LANDSCAPE ARCHITECT.
 - ADEQUATE DRAINAGE OF PONDING AREAS.
 - GENERAL LANDSCAPE CLEAN-UP.

PLANTING SOIL & PREPARATION NOTES

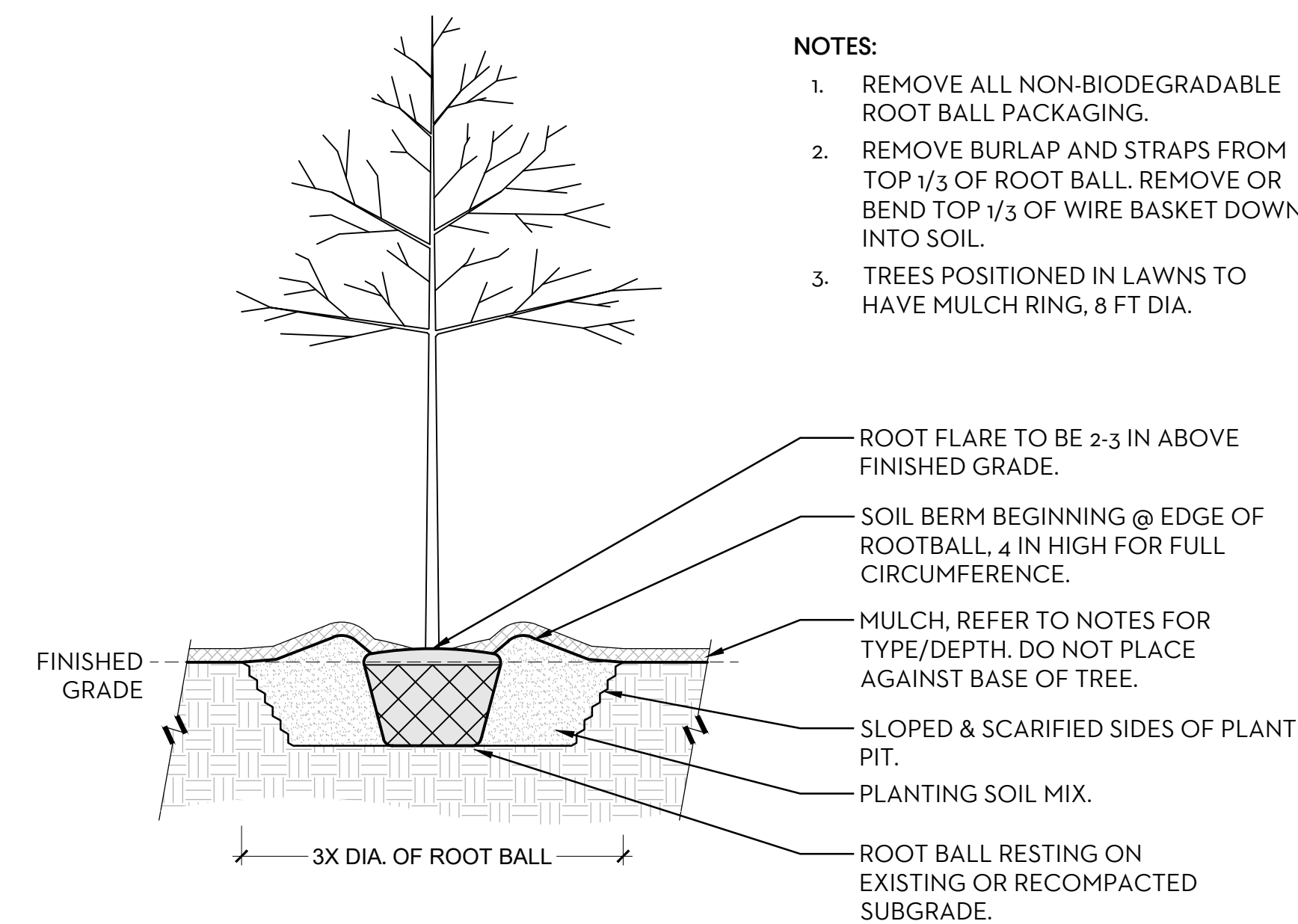
- CONTRACTOR SHALL CONDUCT & SUBMIT TO THE LANDSCAPE ARCHITECT AN ANALYSIS OF A MINIMUM OF (3) SAMPLES OF EXISTING SOIL FROM AREAS TO BE PLANTED. THE ANALYSIS SHALL BE DONE BY A SOIL TESTING LAB APPROVED BY THE LANDSCAPE ARCHITECT IN ADVANCE AND SHALL INCLUDE THE FOLLOWING RESULTS WITH RECOMMENDATIONS:
 - S1A - ORGANIC MATTER, AVAILABLE PHOSPHORUS, EXCHANGEABLE POTASSIUM, MAGNESIUM, CALCIUM, SOIL pH, CATION EXCHANGE CAPACITY, PERCENT BASE SATURATION OF CATION ELEMENTS.
 - S3 - SULFUR, ZINC, MANGANESE, IRON, COPPER, BORON
 - TEXTURE ANALYSIS
- TOPSOIL (& PLANTING SOIL WHEN DIFFERENT) SHALL BE PROVIDED MIXED AND READY FOR INSTALLATION. TOPSOIL SHALL MEET THE FOLLOWING CRITERIA & STRIPPED/STOCKPILED TOPSOIL MAY BE USED IF IT CAN REASONABLY BE BROUGHT UP TO THESE CRITERIA.
 - FERTILE, FRIABLE, NATURALLY OCCURRING, FREE OF TRASH, ROCKS/STONES, & DEBRIS LARGER THAN 2 INCHES IN ANY DIMENSION
 - FREE OF ANY GRASSES, WEEDS, SEEDS, PLANTS, & ANY SUBSTANCE HARMFUL TO PLANT GROWTH.
 - pH RANGE OF 5.0-7.0
 - ORGANIC MATTER: 5-10%
 - SAND: 50-70%, SILT: LESS THAN 30%, CLAY: 10-25%
 - PERMEABILITY RATE OF 5x10 (-3) CENTIMETERS OR GREATER AT 85% COMPACTION.
- CONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE THE LOCATION OF STOCKPILE AREAS FOR STRIPPED TOPSOIL AND PLANTING SOIL PRODUCTS. CONTRACTOR SHALL ENSURE AREA IS PROTECTED FROM CONTAMINATION & DISTURBANCE
- FINAL GRADES DEPICTED ON THE GRADING PLAN (REFER TO CIVIL DRAWINGS) ARE TO ACCOUNT FOR PLANTING SOIL DEPTHS INDICATED IN THE LANDSCAPE DRAWINGS/DETAILS. CONTRACTOR SHALL ENSURE SUBGRADE IS SCARIFIED PRIOR TO INSTALLING PLANTING SOIL.
- FINAL FINISHED GRADING SHALL BE REVIEWED BY THE LANDSCAPE ARCHITECT. CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL TOPSOIL REQUIRED TO CREATE A SMOOTH CONDITION SUITABLE FOR PLANTING.
- ALL TRASH, DEBRIS LARGER THAN 2 INCHES IN DIAMETER IN ANY DIRECTION, ROCK, COBBLE, EXCAVATION SPOILS, & GRAVEL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE PRIOR TO THE INSTALLATION OF TOPSOIL/PLANTING SOIL.
- COORDINATE INSTALLATION OF TOPSOIL/PLANTING SOIL WITH OTHER WORK. PLACEMENT SHALL OCCUR AFTER INSTALLATION OF HARDSCAPE IMPROVEMENTS, IRRIGATION SYSTEMS, UTILITIES, ETC. AND BEFORE PLANT INSTALLATION.
- PRIOR TO PLANT INSTALLATION, PLANT BEDS AND PITS SHALL BE TESTED FOR PERCOLATION BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER. TEST SHALL CONSIST OF 1 FT DIAMETER BY 1 FT DEEP MIN HOLE, OR THE PLANTING PIT, FILLED WITH WATER. IF WATER HAS NOT DISSIPATED BY 50% WITHIN 2 HOURS, NOTIFY THE LANDSCAPE ARCHITECT IN WRITING PRIOR TO INSTALLATION. IN HARDPAN CONDITIONS, INSTALL DRAIN PIPES AS PER PLANTING DETAILS.

PLANT SCHEDULE

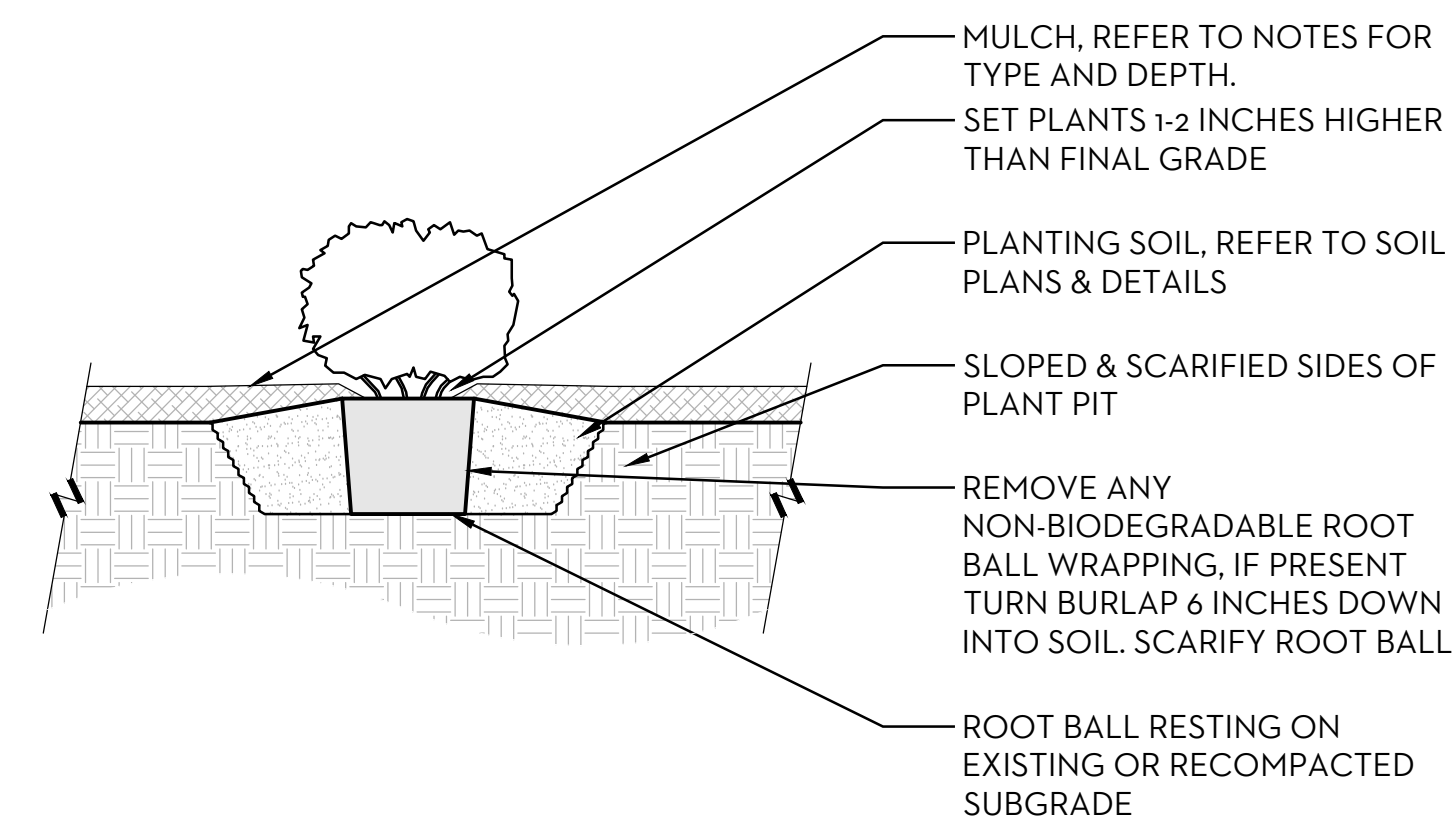
CODE	QTY	COMMON / BOTANICAL NAME	CAL. / HT.	
TREES				
TAX DIS	15	BALD CYPRESS / TAXODIUM DISTICHUM	2.0" CAL.	
JUN BR2	14	BRODIE EASTERN RED CEDAR / JUNIPERUS VIRGINIANA 'BRODIE'	10-12' HT.	
QUE VIR	3	SOUTHERN LIVE OAK / QUERCUS VIRGINIANA	2.0" CAL.	
QUE PHE	59	WILLOW OAK / QUERCUS PHELLOS	2.0" CAL.	
CODE	QTY	COMMON / BOTANICAL NAME	SIZE	
SHRUBS				
BUX WGM	142	WINTER GEM JAPANESE BOXWOOD / BUXUS MICROPHYLLA JAPONICA 'WINTER GEM'	3 GAL	
CODE	QTY	COMMON / BOTANICAL NAME	TYPE	SPACING
SOD/SEED				
CYN T13	211,739 SF	TIF 419 BERMUDAGRASS / CYNODON DACTYLON 'TIF 419'	SOD	



1 SOD INSTALLATION
1 1/2" = 1'-0"



2 TREE PLANTING
3/8" = 1'-0"



3 SHRUB PLANTING
3/4" = 1'-0"

NOTES:

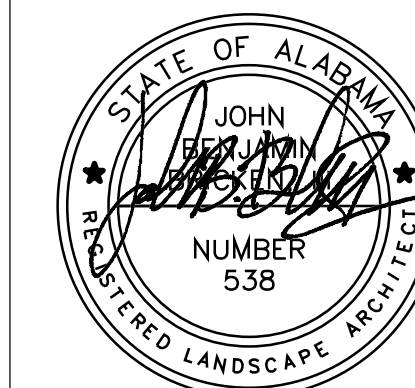
- REMOVE ALL NON-BIODEGRADABLE ROOT BALL PACKAGING.
- REMOVE BURLAP AND STRAPS FROM TOP 1/3 OF ROOT BALL. REMOVE OR BEND TOP 1/3 OF WIRE BASKET DOWN INTO SOIL.
- TREES POSITIONED IN LAWNS TO HAVE MULCH RING, 8 FT DIA.

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PLANTING SCHEDULE,
NOTES AND DETAILS

L1.06

L2.02

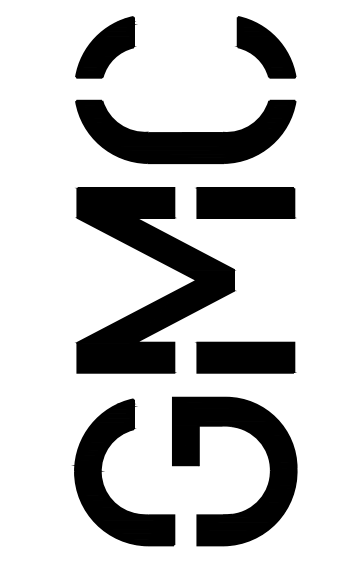
L2.01

L2.03

L2.04

L2.05

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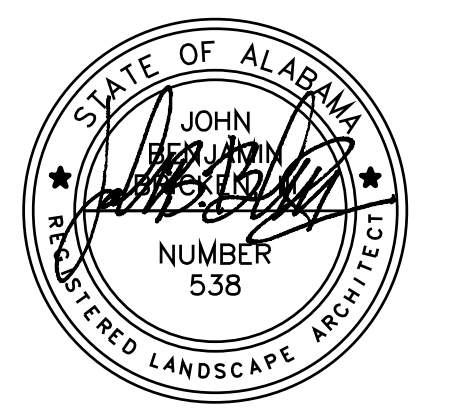


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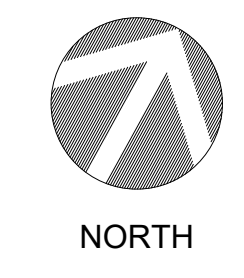
INTEGRITY PARK PHASE II
CITY OF SPANISH FORT
SPANISH FORT, ALABAMA

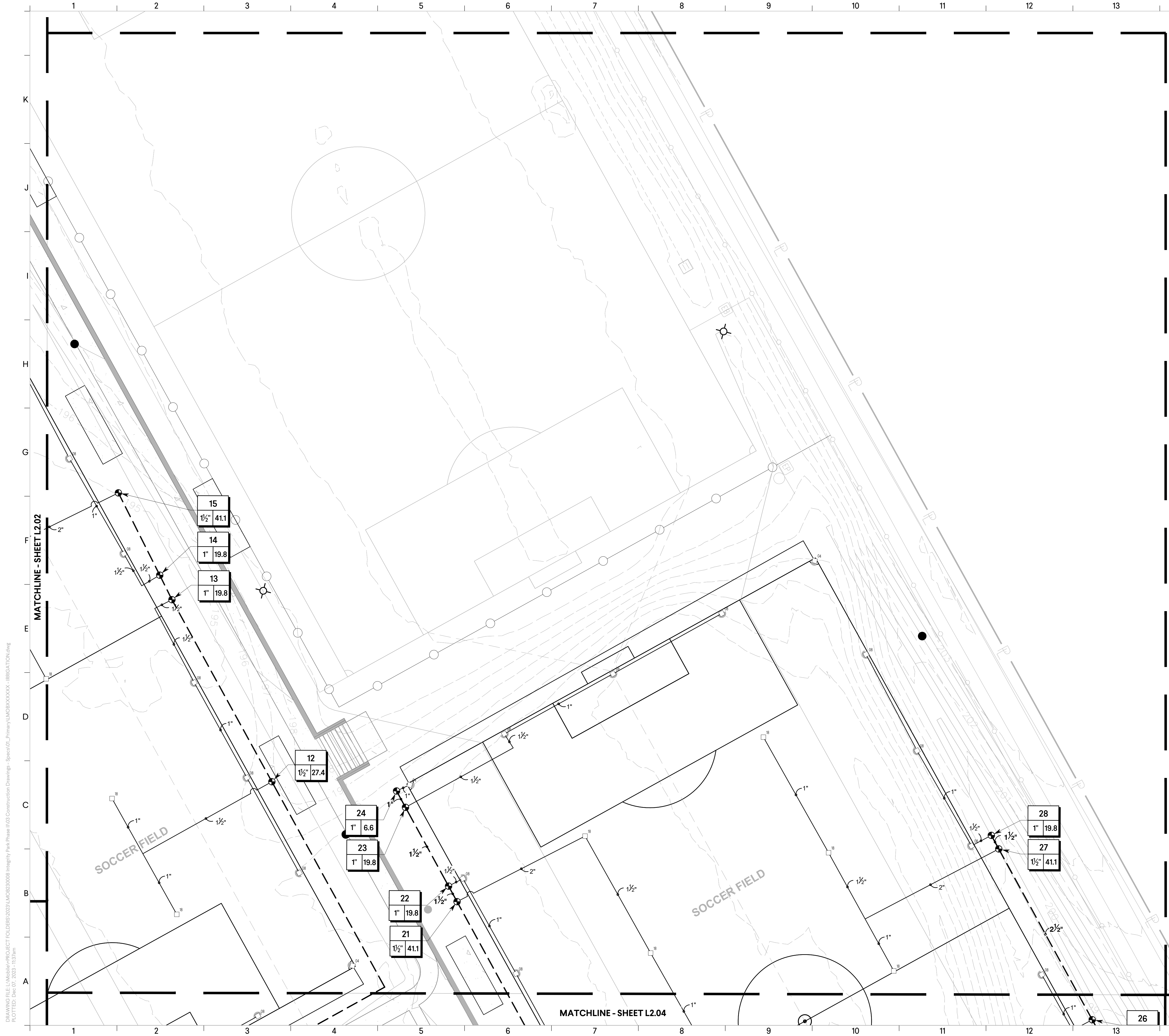
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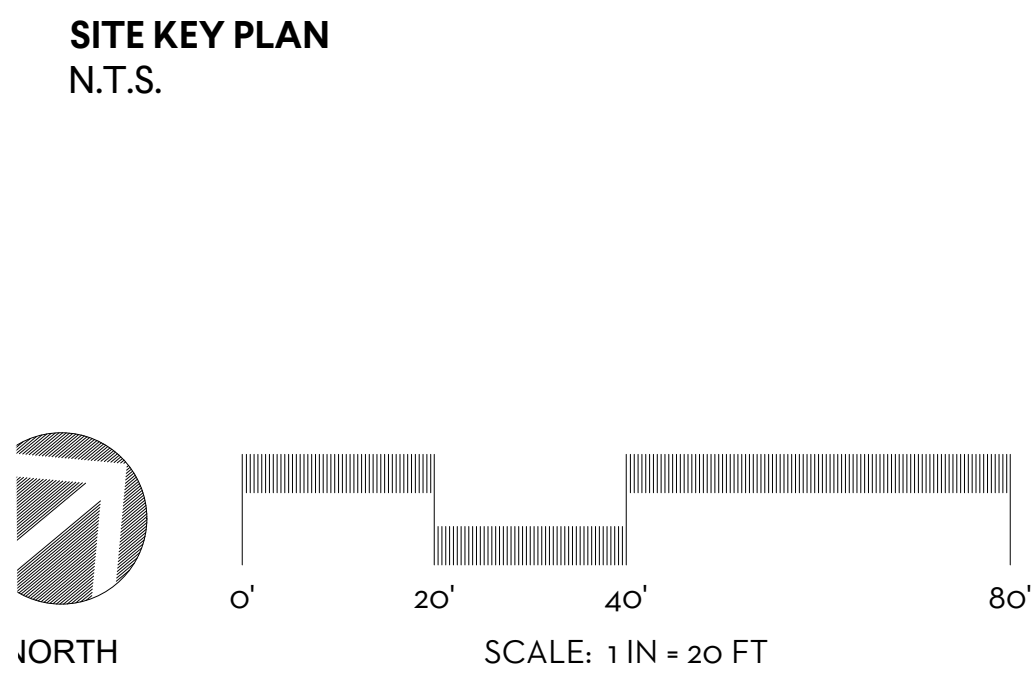
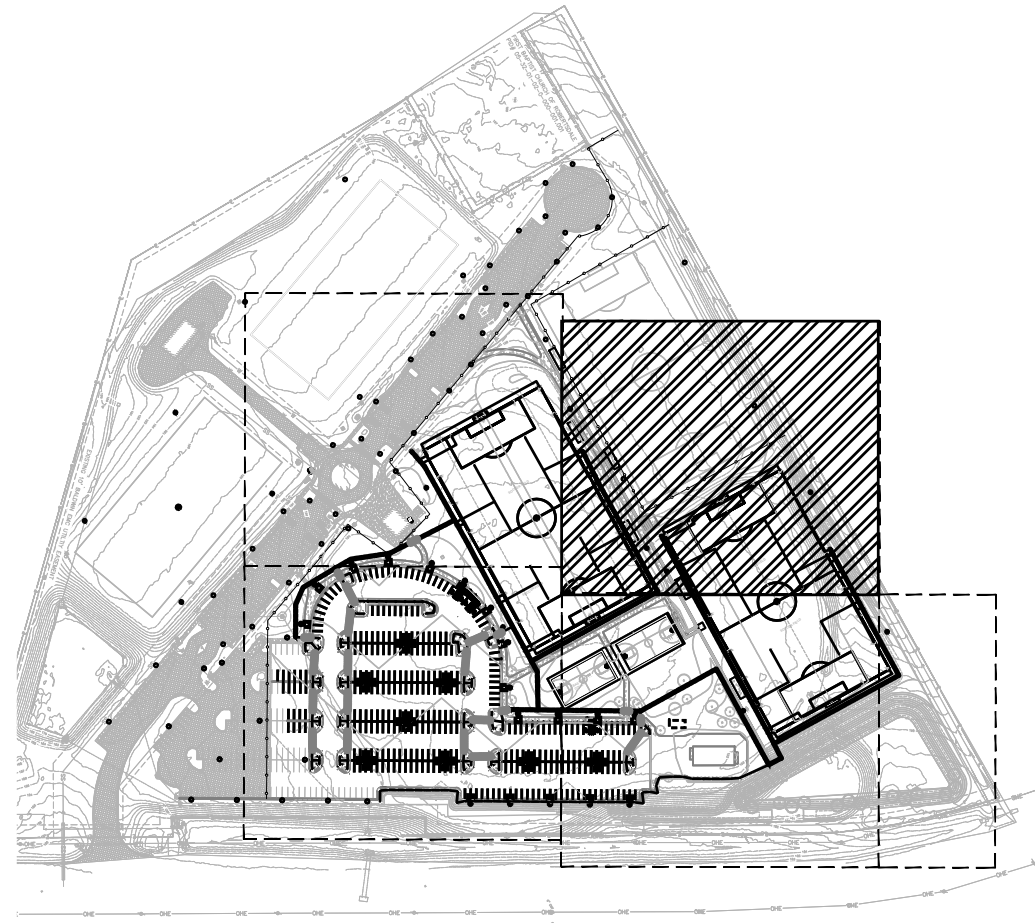
OVERALL IRRIGATION
PLAN

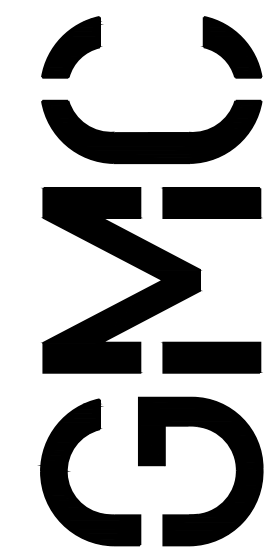
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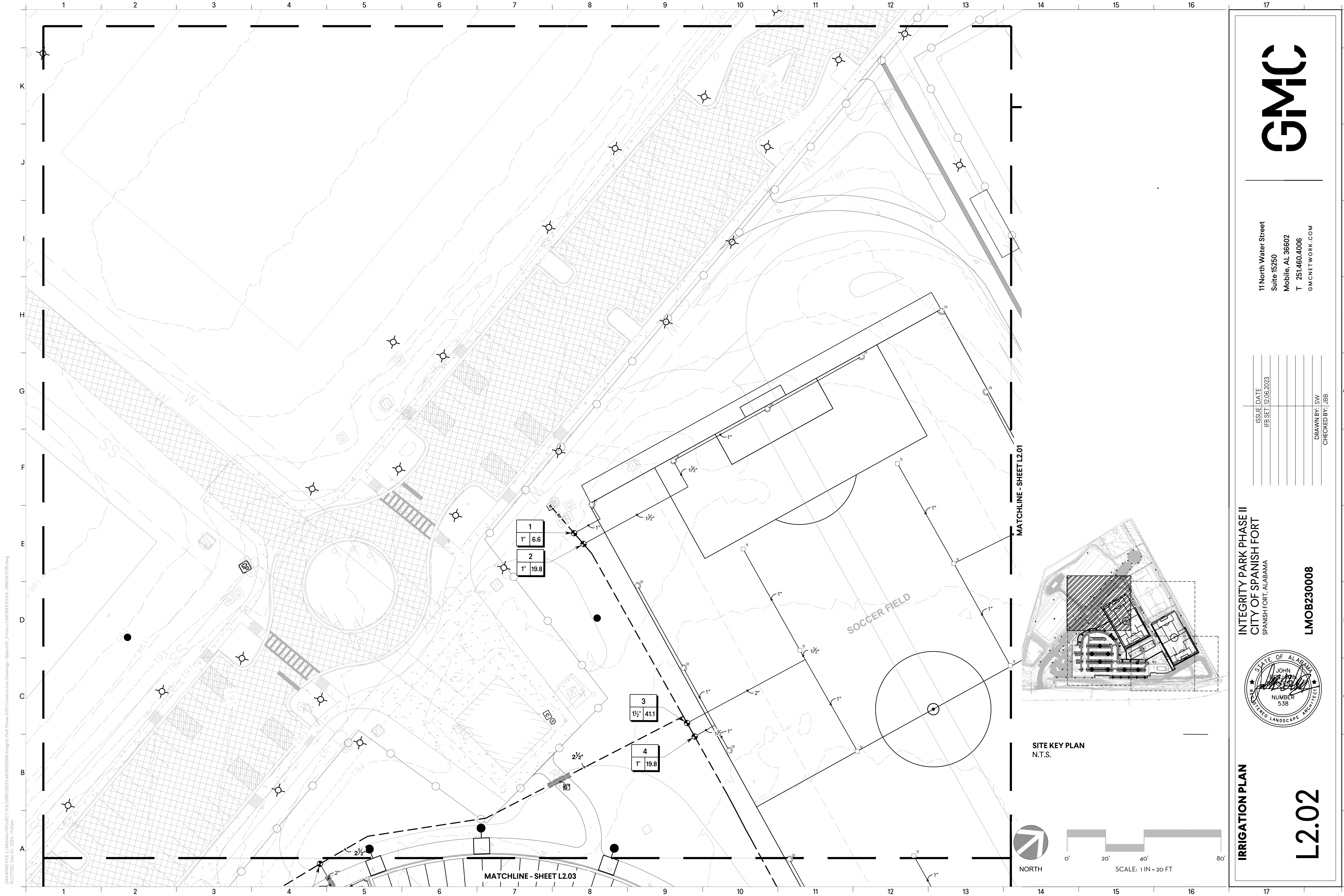
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CITY OF SPANISH FORT
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IRRIGATION PLAN

L2.01



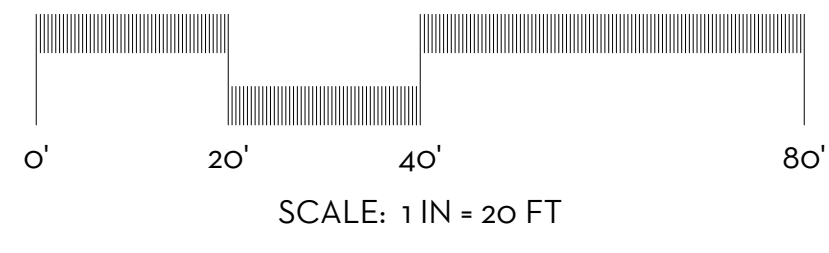
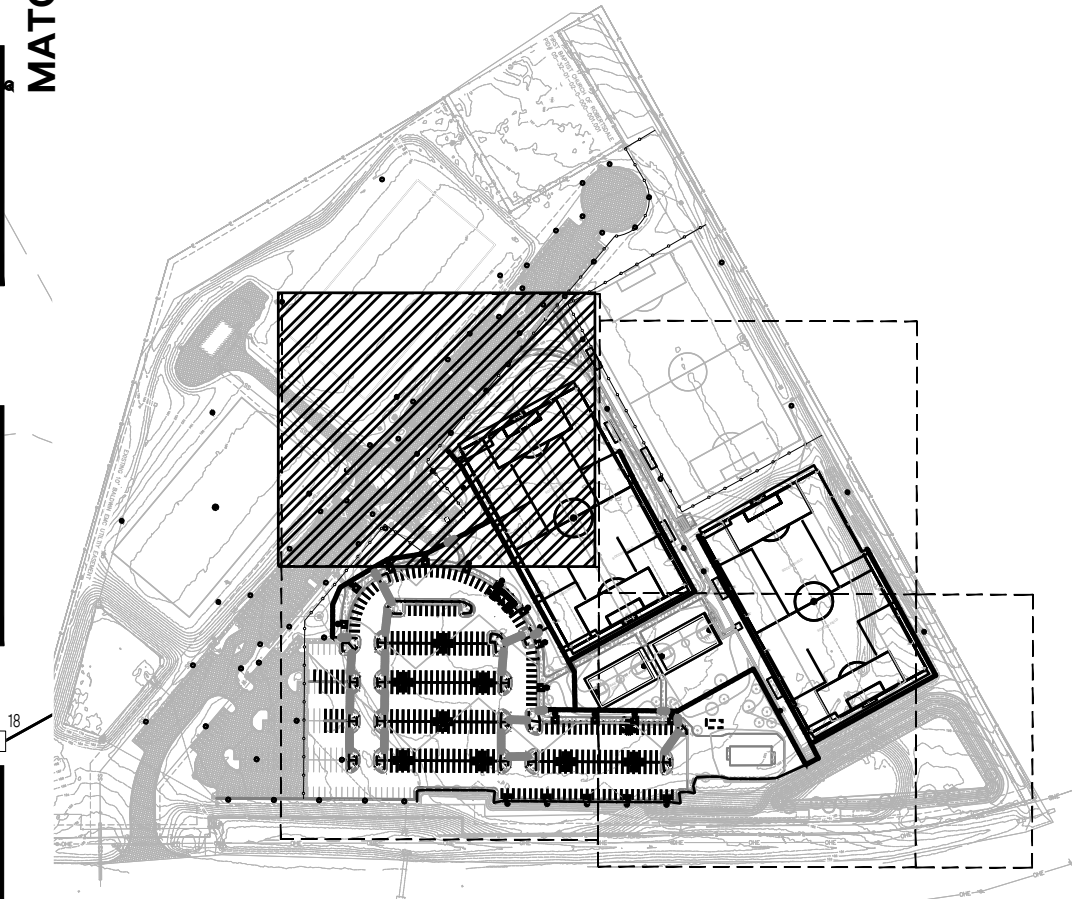
1
1" 6.6
2
1" 19.8

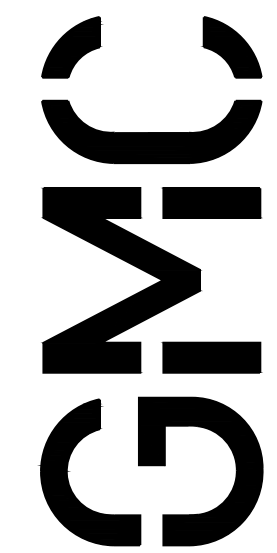
3
1 1/2" 41.1
4
1" 19.8

MATCHLINE - SHEET L2.01

MATCHLINE - SHEET L2.03

SITE KEY PLAN
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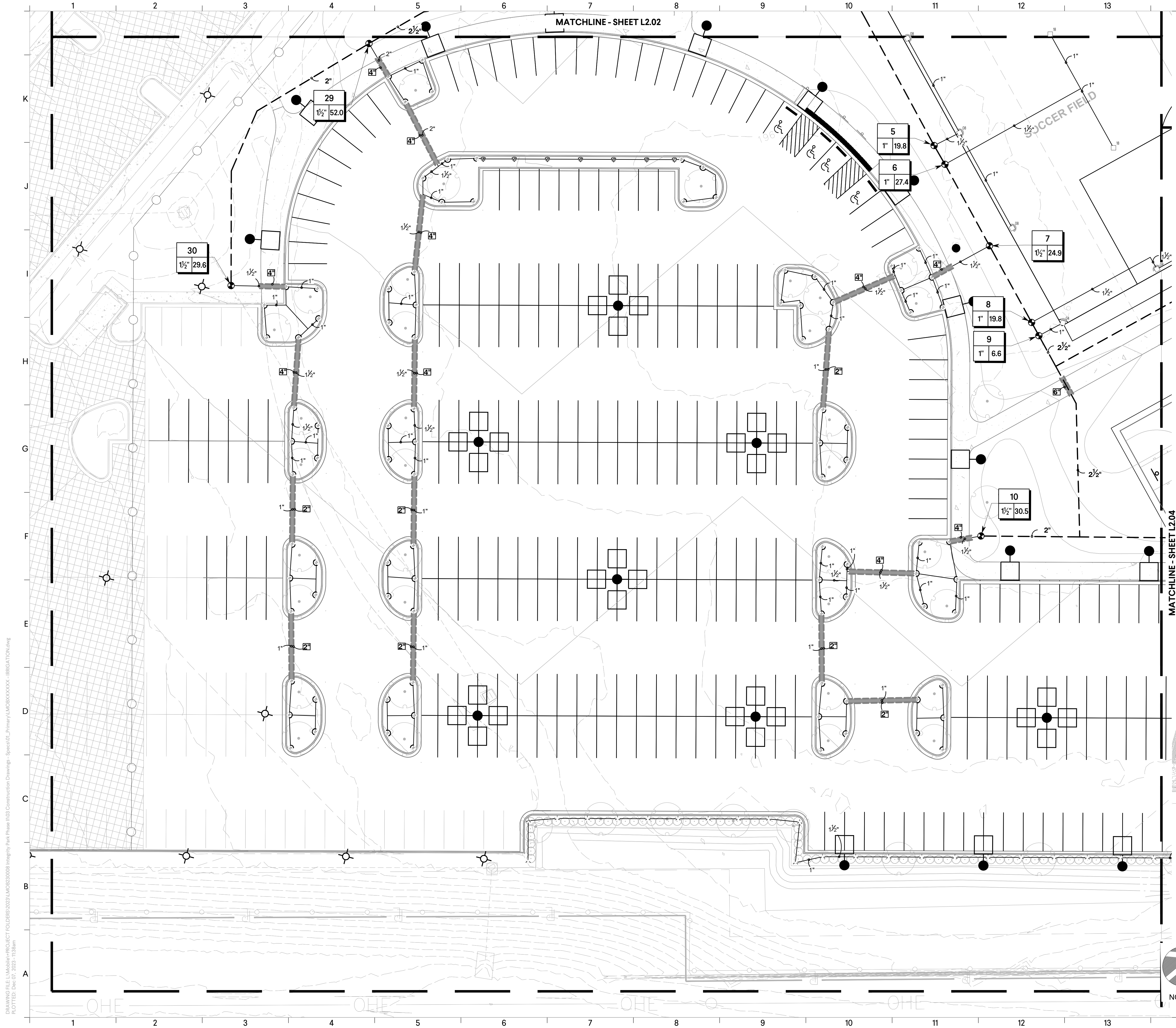
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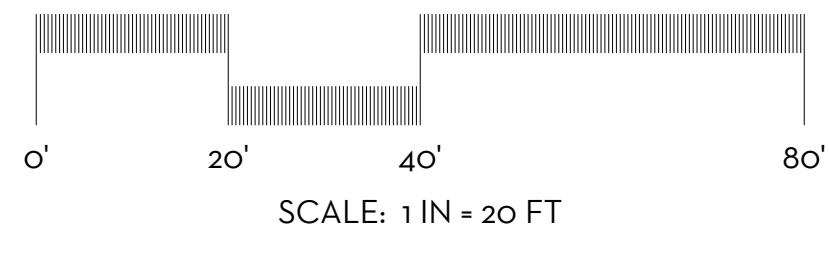
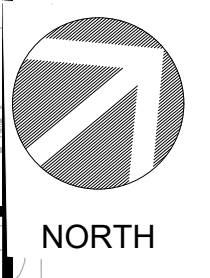
IRRIGATION PLAN

L2.02

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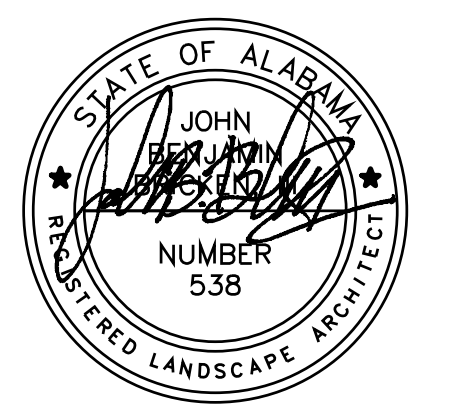
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SPANISH FORT, ALABAMA

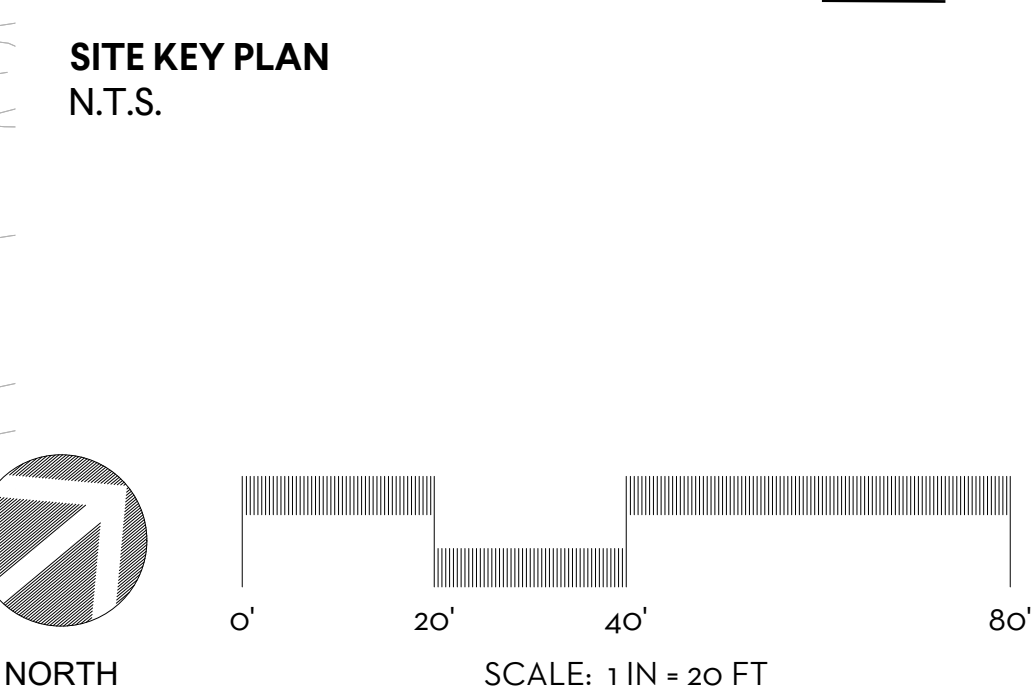
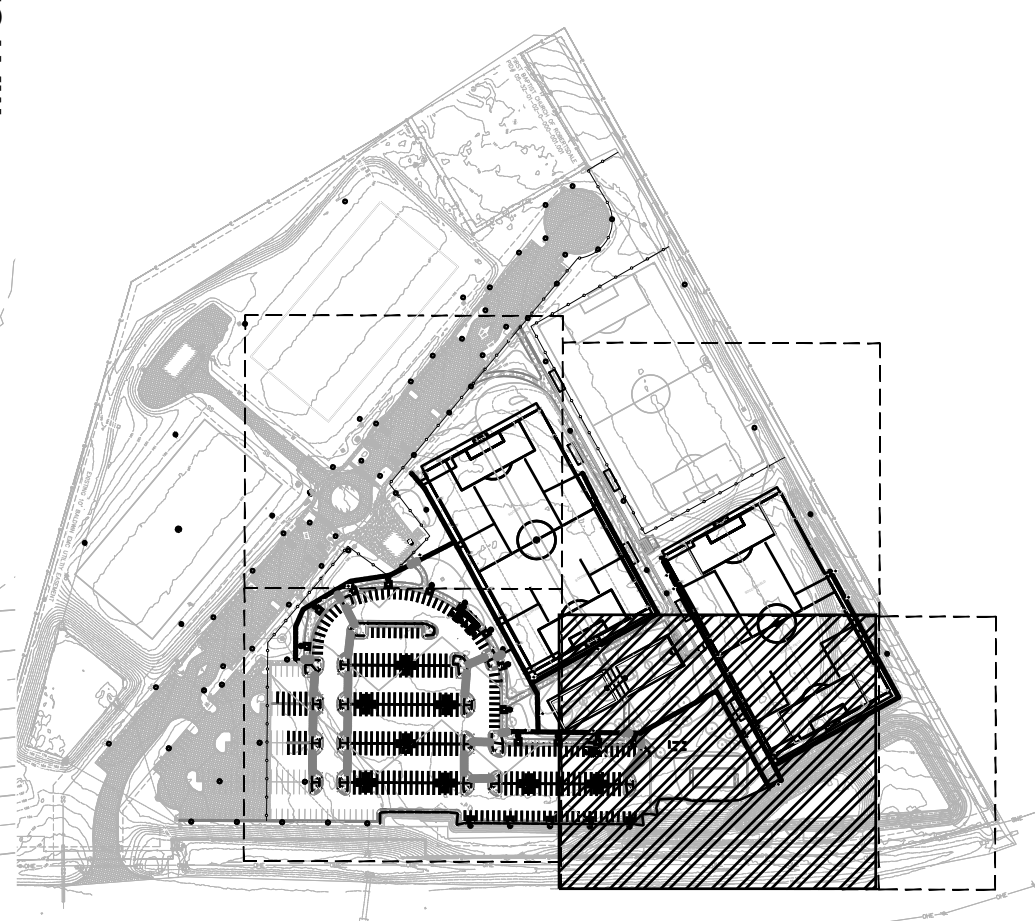
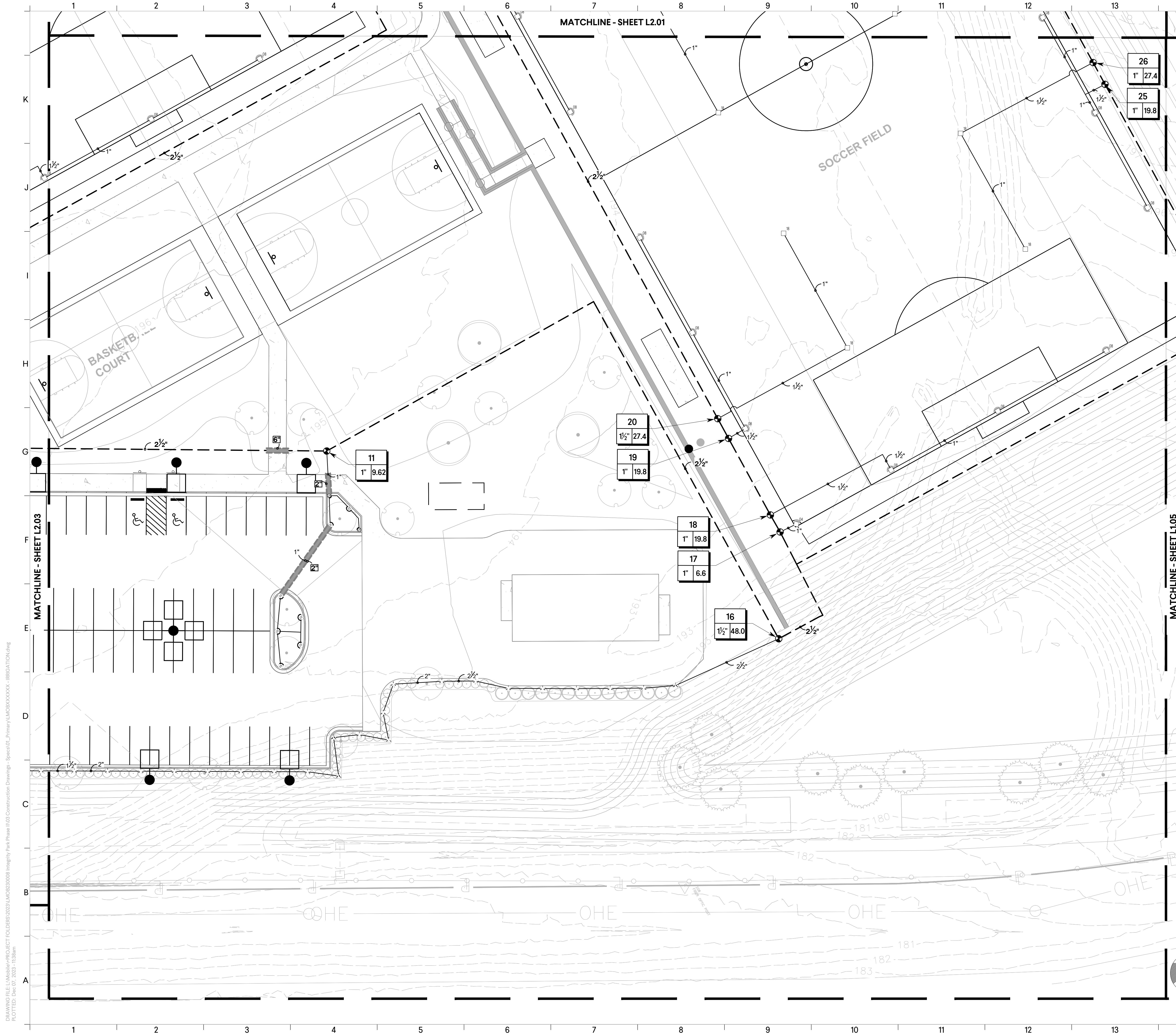
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IRRIGATION PLAN

L2.03

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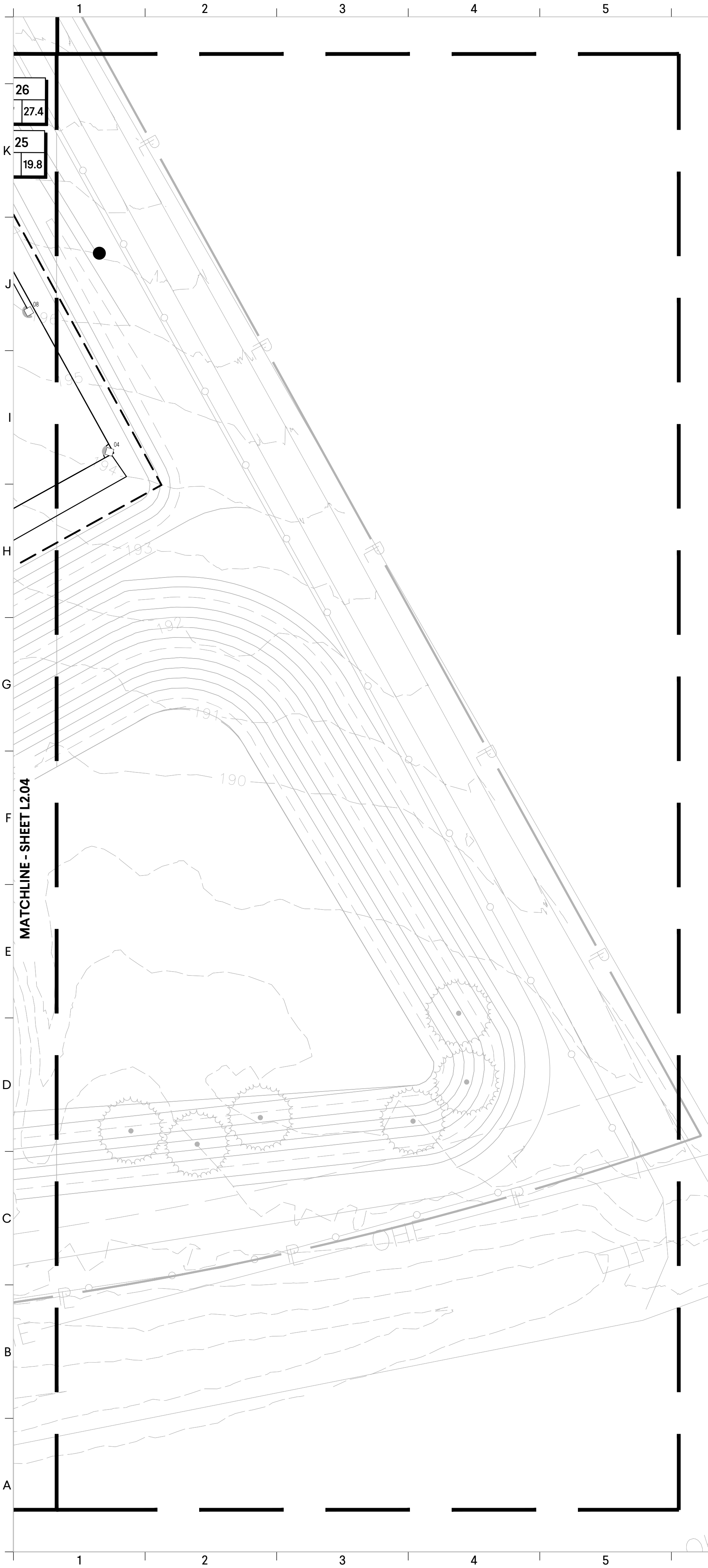
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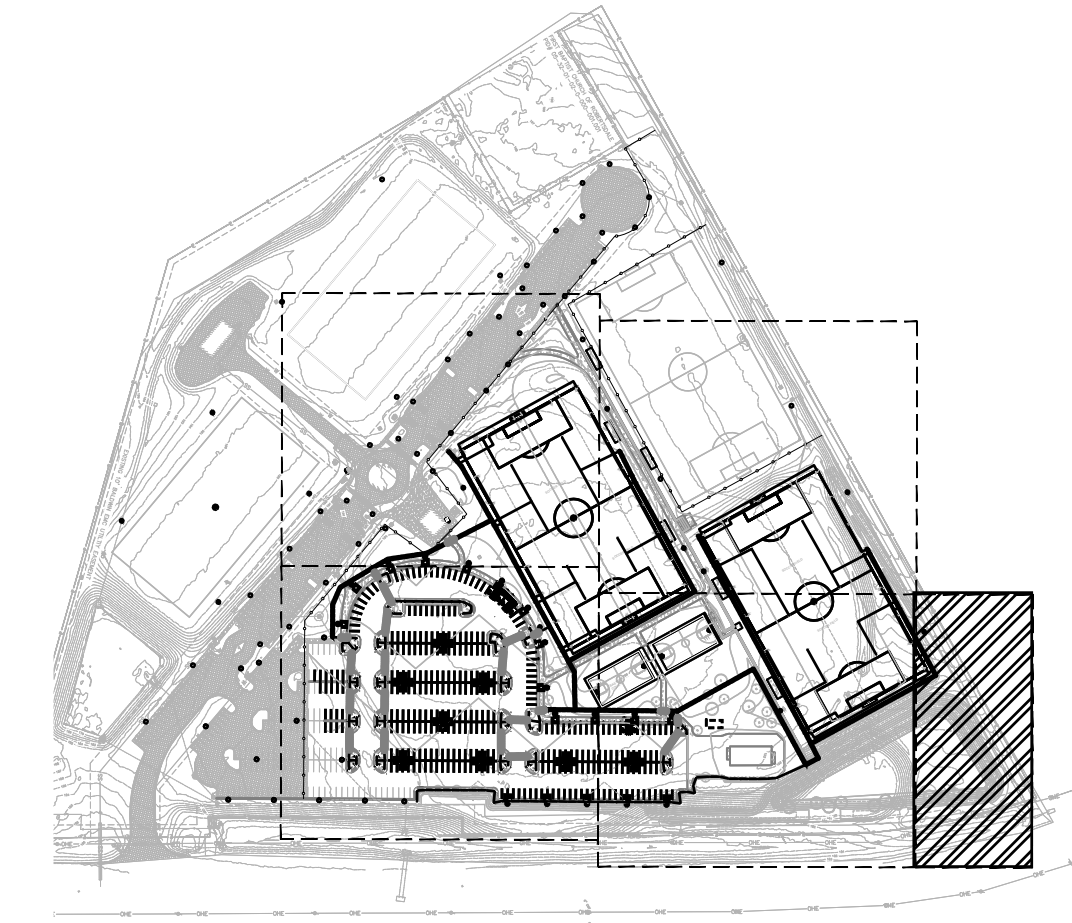
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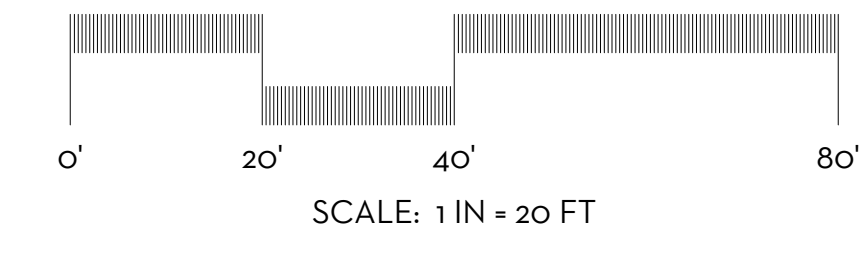
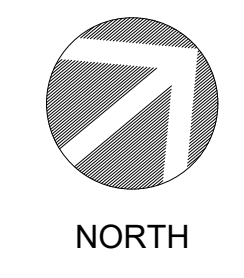


IRRIGATION NOTES

- IRRIGATION DRAWINGS ARE DIAGRAMMATIC IN GENERAL & SUBJECT TO THE REQUIREMENTS OF THE PLANTING PLAN. THE IRRIGATION DRAWINGS INDICATE THE GENERAL LOCATION OF THE COMPONENT PARTS OF THE SYSTEM, BUT ARE NOT INTENDED TO SHOW ALL FITTINGS OR ALL DETAILS OF THE IRRIGATION WORK.
- ALL IRRIGATION WORK WILL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE CODES & STANDARDS INCLUDING CITY CODES, ORDINANCES, & REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, FEES, & APPROVALS FROM GOVERNING AUTHORITIES.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH SITE CONTRACTOR THE INSTALLATION OF THE IRRIGATION WATER METER & BACKFLOW PREVENTER & CONNECTION TO NEW IRRIGATION SYSTEM.
- TEST WATER PRESSURE DOWNSTREAM OF THE IRRIGATION WATER METER OR PUMP STATION DISCHARGE TO CONFIRM AVAILABILITY OF PROPER OPERATING PRESSURE. NOTIFY LANDSCAPE ARCHITECT IF AVAILABLE PRESSURE IS INSUFFICIENT OR EXCESSIVE.
- PIPING FOR MAIN LINES SHALL BE PVC SCHEDULE 40 & ALL LATERAL LINES SHALL BE PVC CLASS 200. FITTINGS WILL BE PVC FOR CORRESPONDING SERVICE. PIPE DEPTH WILL BE A MINIMUM OF 12 IN. TO 18 IN. FOR ALL MAIN & LATERAL LINES. PIPE DEPTH MAY VARY DEPENDING ON LOCAL FROST DEPTH AND/OR REQUIREMENTS OF LOCAL GOVERNING AUTHORITIES AT SITE'S LOCATION.
- ACCEPTABLE MANUFACTURER FOR IRRIGATION PRODUCTS IS SPECIFIED IN THE IRRIGATION SCHEDULE UNLESS OTHERWISE INDICATED. ALTERNATE IRRIGATION MANUFACTURER'S EQUIPMENT MAY BE SUBSTITUTED WITH APPROVAL FROM THE LANDSCAPE ARCHITECT PRIOR TO BID. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING HEAD LAYOUT & LOCATIONS, VALVE LOCATIONS, PERFORMANCE DATA, ETC. SHOULD ALTERNATE MANUFACTURER BE USED.
- INSTALL ALL IRRIGATION COMPONENTS AS PER MANUFACTURER'S RECOMMENDATIONS OR INSTRUCTIONS.
- REMOTE CONTROL VALVES & OTHER UNDERGROUND DEVICES WILL BE INSTALLED IN PLASTIC BOXES WITH PLASTIC COVERS OF THE SIZE REQUIRED TO ENSURE ADJUSTMENT OF THE DEVICE. GROUP DEVICES IN SINGLE BOXES WHERE POSSIBLE.
- IRRIGATION HEADS TO BE LOCATED A MINIMUM OF 4 IN. OFF SIDEWALKS/CURBS & 6 IN. FROM BUILDINGS OR WALLS.
- ADJUST IRRIGATION AS NECESSARY TO AVOID EXISTING UTILITIES, LIGHT POLES, BUILDINGS, AND/OR OTHER UNFORSEEN OBSTRUCTIONS.
- IRRIGATION CONTROLLER LOCATION SHOWN ON DRAWINGS IS APPROXIMATE & ONLY A PLACEHOLDER. LANDSCAPE CONTRACTOR TO VERIFY EXACT LOCATION OF IRRIGATION CONTROLLER WITH OWNER PRIOR TO CONSTRUCTION. CONTRACTOR TO PROVIDE CONTROLLER WITH APPROPRIATE ENCLOSURE FOR SPECIFIC LOCATION WHETHER INTERIOR, EXTERIOR, WALL MOUNT, OR PEDESTAL ENCLOSURE APPLICATION.
- CONTRACTOR SHALL INSTALL GROUNDING, SURGE, & LIGHTNING PROTECTION AS PER IRRIGATION MANUFACTURER'S RECOMMENDATIONS.
- VALVES, CONTROLLERS, & ALL IRRIGATION EQUIPMENT TO HAVE PROPER GROUNDING PROTECTION AS PER IRRIGATION MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS OF THE SYSTEM AT THE COMPLETION OF THE PROJECT.

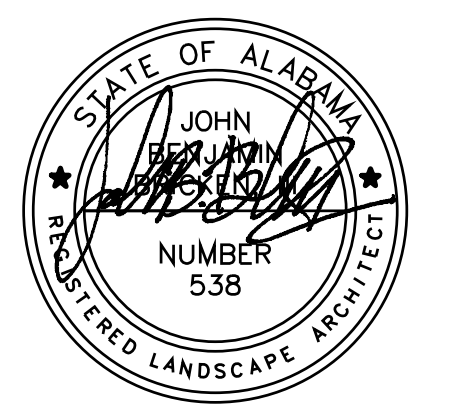


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LANDSCAPE PLANTING
ENLARGEMENT PLAN

L2.05

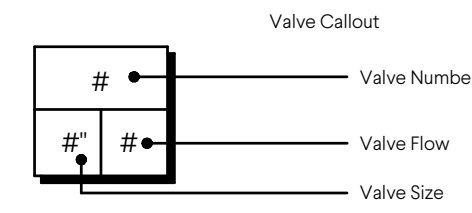
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IRRIGATION SCHEDULE

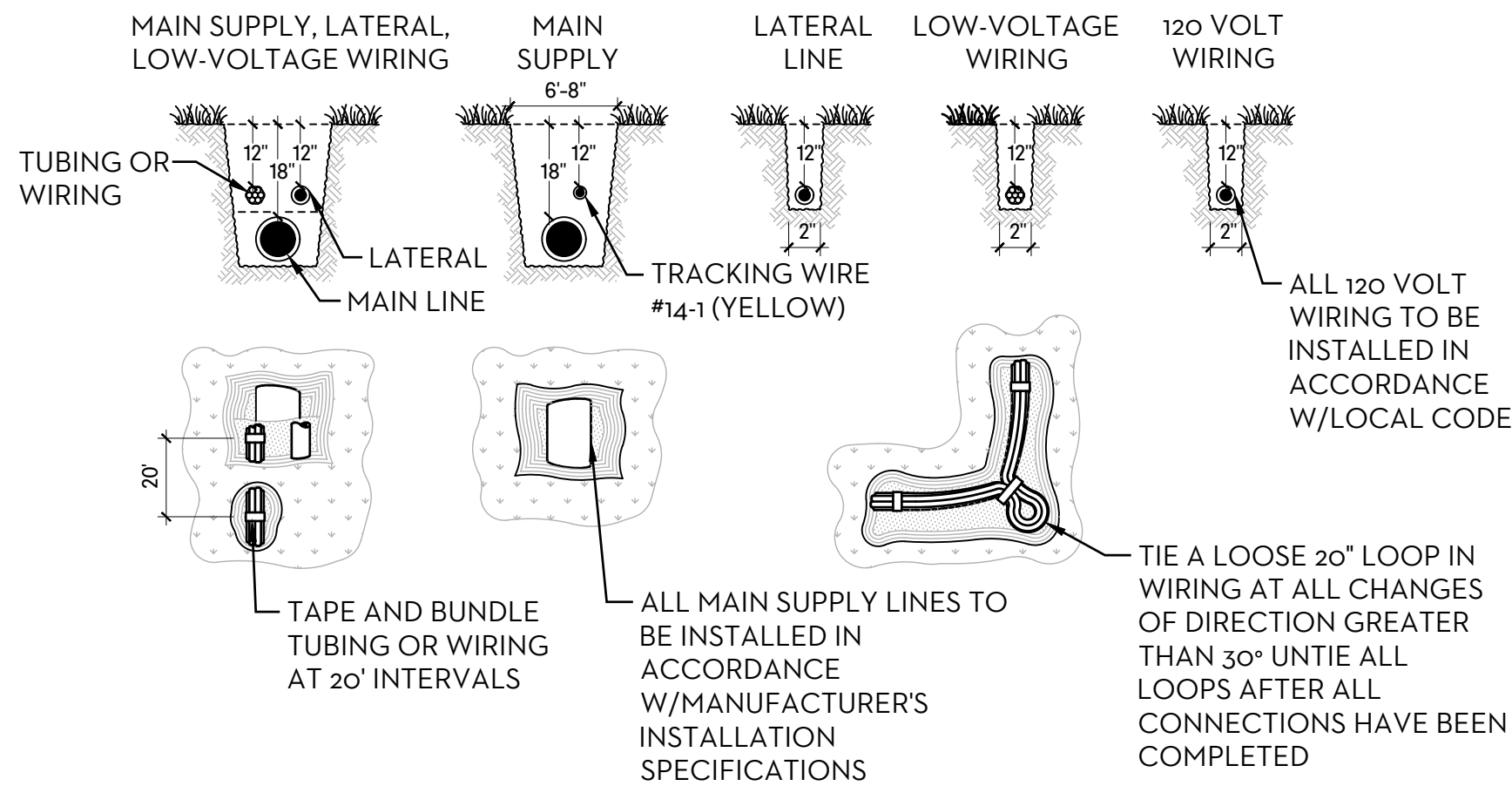
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI		
	RAIN BIRD 1804-SAM-PRS 15 STRIP SERIES TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, 1/2IN. NPT FEMALE THREADED INLET, WITH SEAL-A-MATIC CHECK VALVE, PRESSURE REGULATING.	7	30		
	RAIN BIRD 1804-SAM-PRS 8 SERIES MPR TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, 1/2IN. NPT FEMALE THREADED INLET, WITH SEAL-A-MATIC CHECK VALVE, PRESSURE REGULATING.	2	30		
	RAIN BIRD 1804-SAM-PRS 10 SERIES MPR TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, 1/2IN. NPT FEMALE THREADED INLET, WITH SEAL-A-MATIC CHECK VALVE, PRESSURE REGULATING.	1	30		
	RAIN BIRD 1804-SAM-PRS 15 SERIES MPR TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, 1/2IN. NPT FEMALE THREADED INLET, WITH SEAL-A-MATIC CHECK VALVE, PRESSURE REGULATING.	99	30		
	RAIN BIRD 1812-SAM-PRS 15 STRIP SERIES SHRUB SPRAY 12IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, 1/2IN. NPT FEMALE THREADED INLET, WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	45	30		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS
	RAIN BIRD 6504-PC, FC 04 TURF ROTOR, 4.0IN. POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE, WITH REMOVABLE SEAL-A-MATIC CHECK VALVE, 1IN. FEMALE THREADED INLET.	8	40	3.3	41'
	RAIN BIRD 6504-PC, FC 08 TURF ROTOR, 4.0IN. POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE, WITH REMOVABLE SEAL-A-MATIC CHECK VALVE, 1IN. FEMALE THREADED INLET.	36	40	6.6	49'
	RAIN BIRD 6504-PC, FC 18 TURF ROTOR, 4.0IN. POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE, WITH REMOVABLE SEAL-A-MATIC CHECK VALVE, 1IN. FEMALE THREADED INLET.	20	40	13.7	59'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY			
	RAIN BIRD PGA-PRS-D GLOBE 1IN., 1-1/2IN., 2IN. ELECTRIC REMOTE CONTROL VALVE, GLOBE, WITH PRESSURE REGULATOR MODULE.	30			
	BACKFLOW PREVENTER 2" BACKFLOW REDUCED PRESSURE ZONE, AS PER LOCAL REQUIREMENTS, CODES, AND STANDARDS	1			
	RAIN BIRD ESP-LXD 50 STATION, 2-WIRE DECODER BASED CONTROLLER. (1) ESP-LXD 50-STATION, INDOOR/OUTDOOR, PLASTIC WALL-MOUNT ENCLOSURE. SYSTEM REQUIREMENTS: RAIN BIRD FD-XXX-TURF FIELD DECODERS, PAIGE ELECTRIC CABLE P7072D & RAIN BIRD WC20 DRY SPLICES ONLY. GROUND SYSTEM W/ (X) LSP-1TURF LINE SURGE PROTECTORS IN RAIN BIRD ROUND VALVE BOXES. INSTALL PER MANUFACTURERS RECOMMENDATIONS.	1			
	RAIN BIRD RSD-BEX RAIN SENSOR, WITH METAL LATCHING BRACKET, EXTENSION WIRE.	1			
	WATER METER 1-1/4" WATER METER - SEE CIVIL PLANS	1			
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21	6,465 L.F.			
	IRRIGATION MAINLINE: PVC SCHEDULE 40	2,685 L.F.			
	PIPE SLEEVE: PVC SCHEDULE 40	514.3 L.F.			



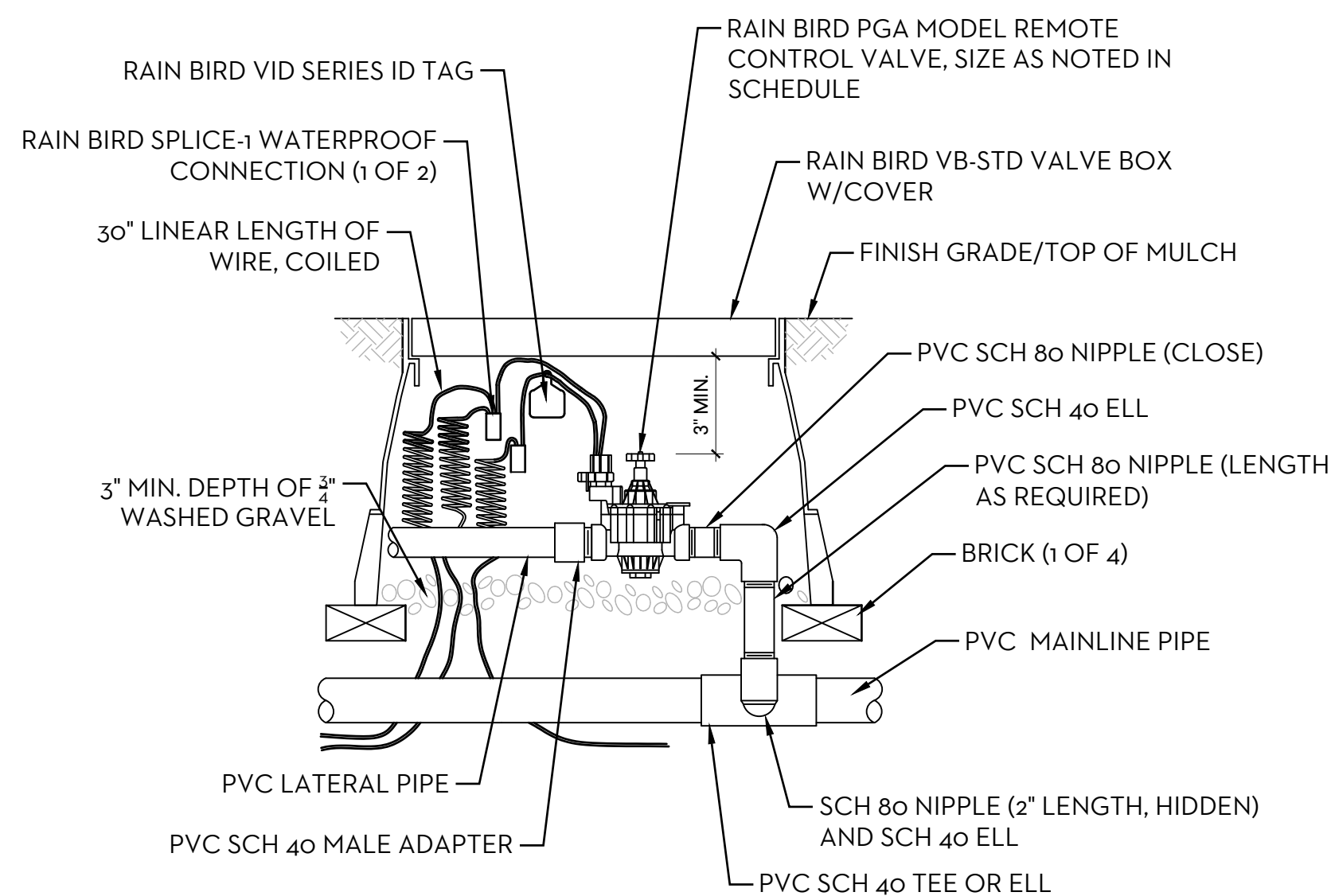
VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
1	RAIN BIRD PGA-PRS-D GLOBE	1"	TURF ROTOR	6.6	46.3	56.4	0.76 in/h
2	RAIN BIRD PGA-PRS-D GLOBE	1"	TURF ROTOR	19.8	48.6	59.4	0.53 in/h
3	RAIN BIRD PGA-PRS-D GLOBE	1-1/2"	TURF ROTOR	41.1	46.0	59.9	0.36 in/h
4	RAIN BIRD PGA-PRS-D GLOBE	1"	TURF ROTOR	19.8	47.3	58.3	0.53 in/h
5	RAIN BIRD PGA-PRS-D GLOBE	1"	TURF ROTOR	19.8	46.5	57.7	0.53 in/h
6	RAIN BIRD PGA-PRS-D GLOBE	1"	TURF ROTOR	27.4	48.3	60.6	0.36 in/h
7	RAIN BIRD PGA-PRS-D GLOBE	1-1/2"	TURF SPRAY	24.93	33.4	45.4	1.23 in/h
8	RAIN BIRD PGA-PRS-D GLOBE	1"	TURF ROTOR	19.8	48.4	59.8	0.52 in/h
9	RAIN BIRD PGA-PRS-D GLOBE	1"	TURF ROTOR	6.6	46.2	56.3	0.76 in/h
10	RAIN BIRD PGA-PRS-D GLOBE	1-1/2"	TURF SPRAY	30.48	36.1	49.8	1.14 in/h
11	RAIN BIRD PGA-PRS-D GLOBE	1"	TURF SPRAY	9.62	36.8	47.2	1.19 in/h
12	RAIN BIRD PGA-PRS-D GLOBE	1-1/2"	TURF ROTOR	27.4	43.9	57.3	0.36 in/h
13	RAIN BIRD PGA-PRS-D GLOBE	1"	TURF ROTOR	19.8	48.0	61.0	0.53 in/h
14	RAIN BIRD PGA-PRS-D GLOBE	1"	TURF ROTOR	19.8	47.9	60.8	0.53 in/h
15	RAIN BIRD PGA-PRS-D GLOBE	1-1/2"	TURF ROTOR	41.1	45.9	64.1	0.36 in/h
16	RAIN BIRD PGA-PRS-D GLOBE	1-1/2"	SHRUB SPRAY	47.97	40.1		1.65 in/h
17	RAIN BIRD PGA-PRS-D GLOBE	1"	TURF ROTOR	6.6	46.1	56.4	0.76 in/h
18	RAIN BIRD PGA-PRS-D GLOBE	1"	TURF ROTOR	19.8	48.4	60.8	0.52 in/h
19	RAIN BIRD PGA-PRS-D GLOBE	1"	TURF ROTOR	19.8	47.7	60.1	0.53 in/h
20	RAIN BIRD PGA-PRS-D GLOBE	1-1/2"	TURF ROTOR	27.4	44.6	59.1	0.36 in/h
21	RAIN BIRD PGA-PRS-D GLOBE	1-1/2"	TURF ROTOR	41.1	46.8	67.6	0.36 in/h
22	RAIN BIRD PGA-PRS-D GLOBE	1"	TURF ROTOR	19.8	47.7	61.2	0.53 in/h
23	RAIN BIRD PGA-PRS-D GLOBE	1"	TURF ROTOR	19.8	48.4	62.5	0.53 in/h
24	RAIN BIRD PGA-PRS-D GLOBE	1"	TURF ROTOR	6.6	46.1	56.8	0.76 in/h
25	RAIN BIRD PGA-PRS-D GLOBE	1"	TURF ROTOR	19.8	46.7	59.5	0.53 in/h
26	RAIN BIRD PGA-PRS-D GLOBE	1"	TURF ROTOR	27.4	49.1	64.3	0.36 in/h
27	RAIN BIRD PGA-PRS-D GLOBE	1-1/2"	TURF ROTOR	41.1	46.4	68.0	0.36 in/h
28	RAIN BIRD PGA-PRS-D GLOBE	1"	TURF ROTOR	19.8	47.7	60.8	0.53 in/h
29	RAIN BIRD PGA-PRS-D GLOBE	1-1/2"	TURF SPRAY	51.96	40.9	58.8	1.22 in/h
30	RAIN BIRD PGA-PRS-D GLOBE	1-1/2"	TURF SPRAY	29.55	35.9	49.7	1.15 in/h

CONTRACTOR TO COMPLY W/ALL LOCAL CODES AND ORDINANCES IN REFERENCE TO THE INSTALLATION OF PVC PIPING AND LOW VOLTAGE WIRING.

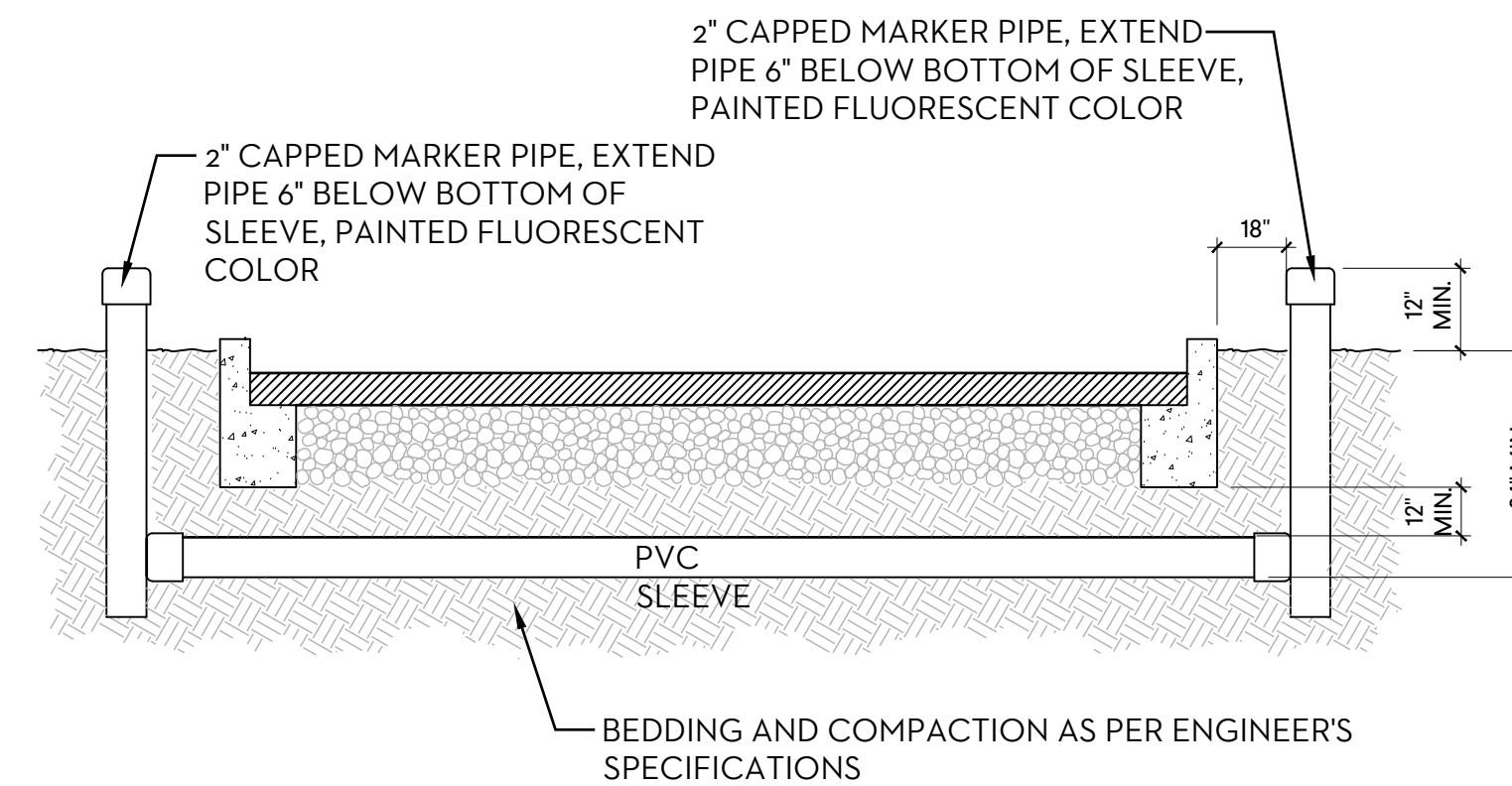


1 IRRIGATION TRENCHING
NTS

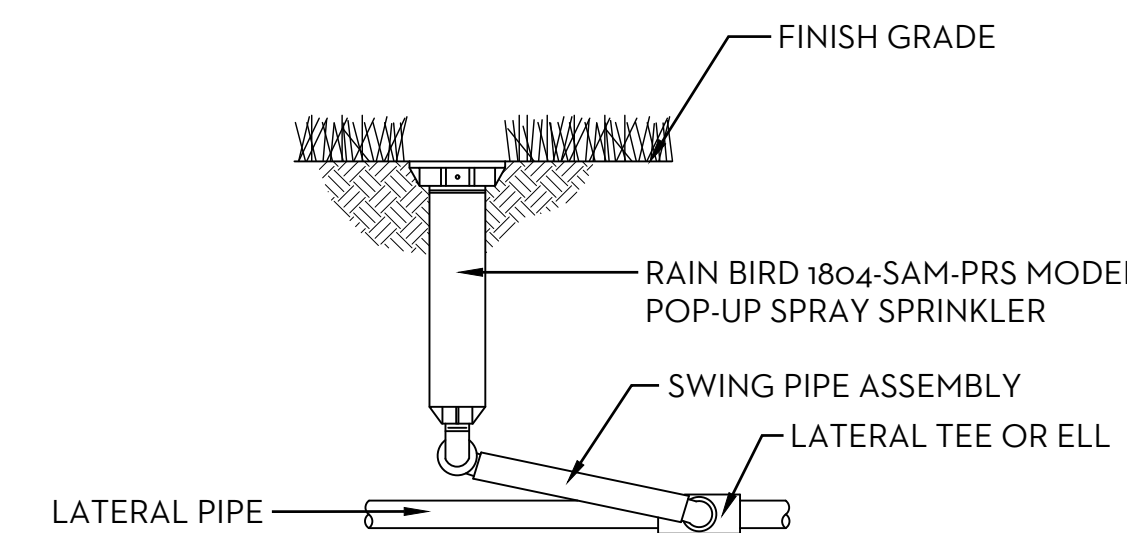


3 RAIN BIRD PGA REMOTE CONTROL VALVE
NTS

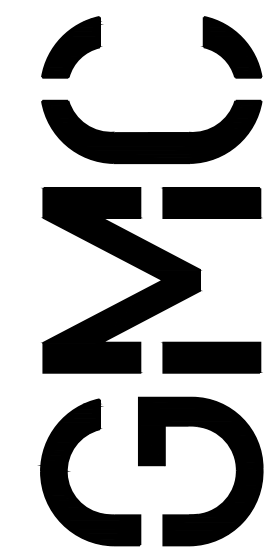
NOTE: INSTALLER OF SLEEVES SHALL BE RESPONSIBLE TO LOCATE SLEEVES IF NOT PROPERLY INSTALLED



2 IRRIGATION SLEEVING
NTS



4 RAIN BIRD 4\"/>

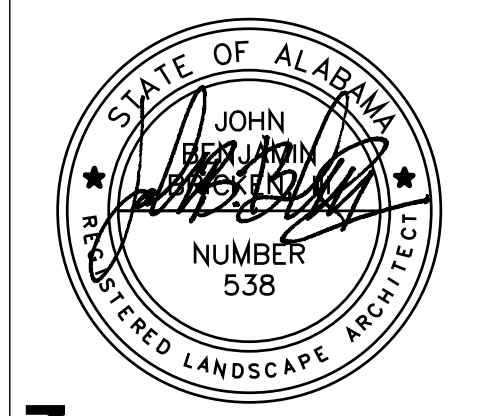


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Suite 15250
Mobile, AL 36602
T 251.460.4006
GMCNETWORK.COM

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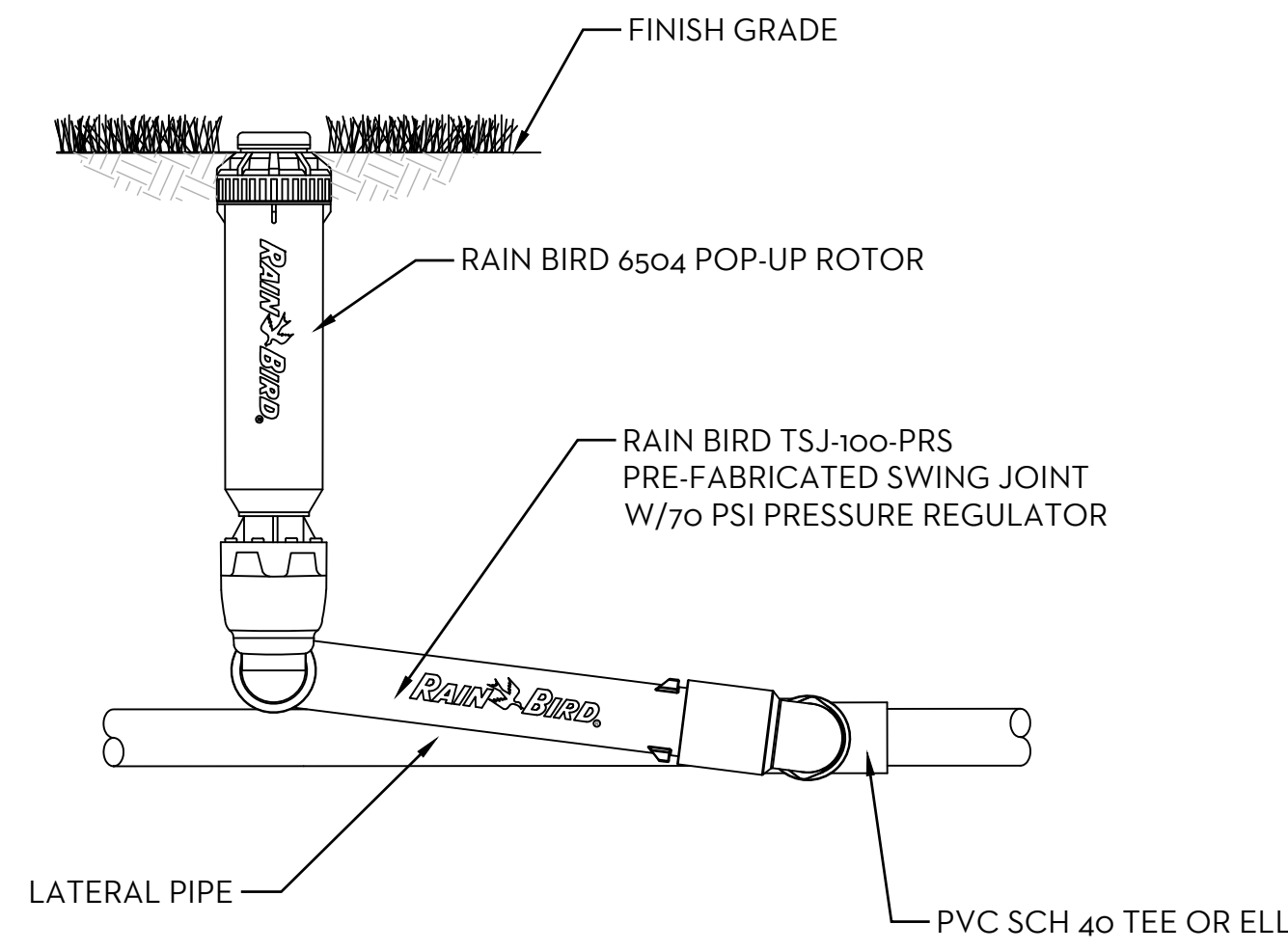
INTEGRITY PARK PHASE II
CITY OF SPANISH FORT
SPANISH FORT, ALABAMA

LMOB230008



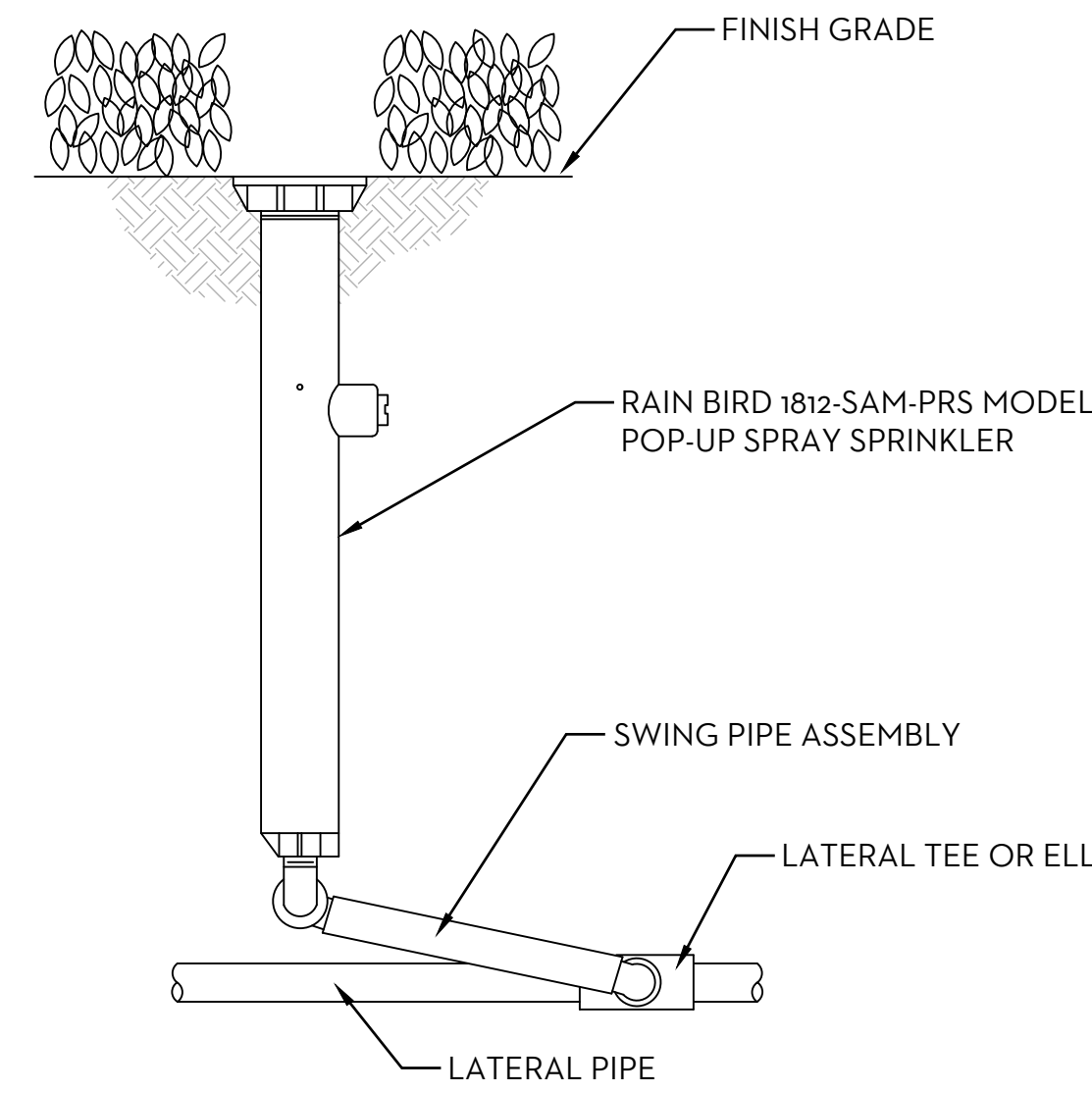
LANDSCAPE IRRIGATION
DETAILS

L2.06



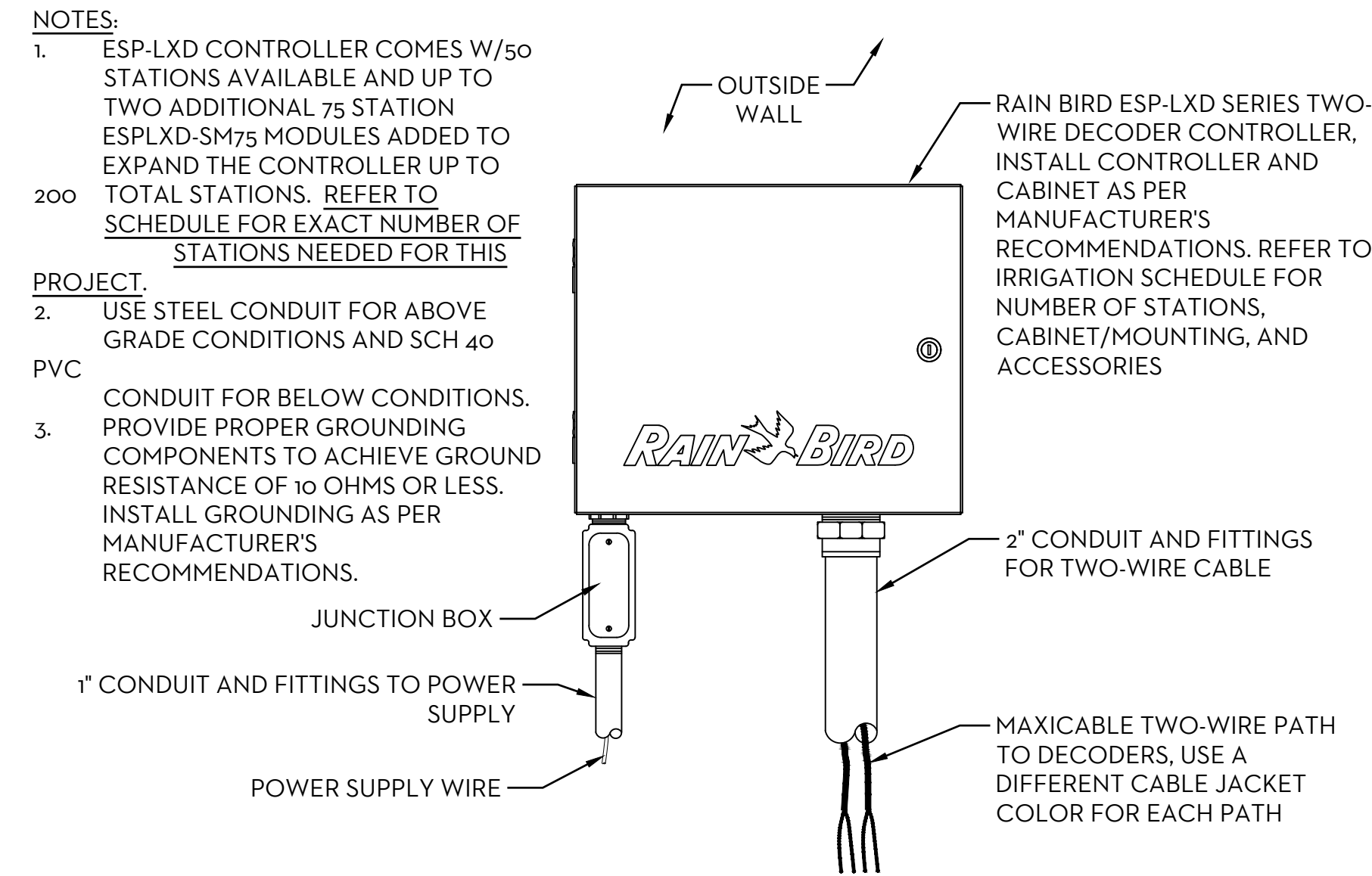
1 RAIN BIRD 6504 POP-UP ROTOR

NTS



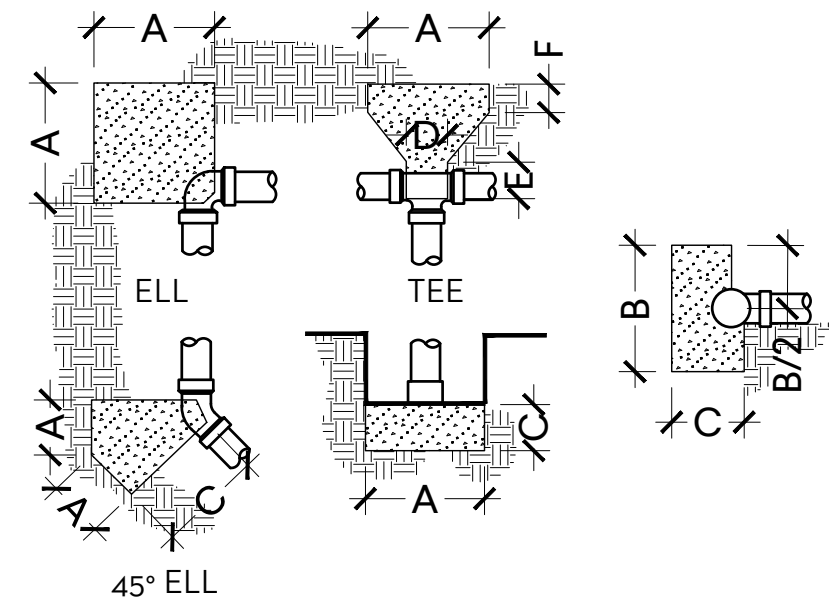
4 RAIN BIRD 12" POP-UP SPRAY SPRINKLER

NTS



2 RAIN BIRD 2-WIRE DECODER CONTROLLER

NTS



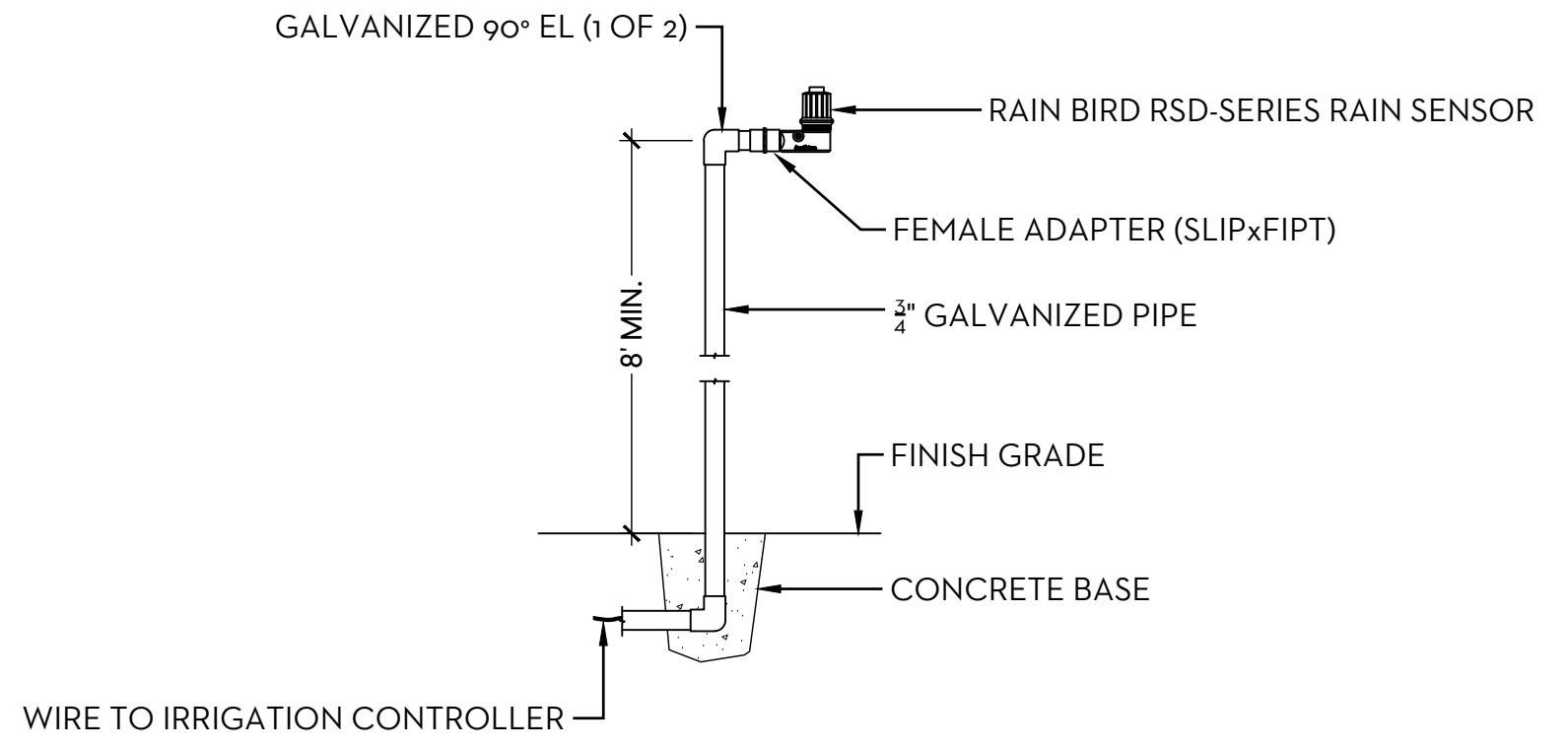
PIPE DIA.	TEES						PLUGS			90° BEND			45° BEND		
	A	B	C	D	E	F	A	B	C	A	B	C	A	B	C
3"	12	20	8	12	-	-	12	20	8	18	12	8	8	12	12

5 THRUST BLOCKS

NTS

NOTES:

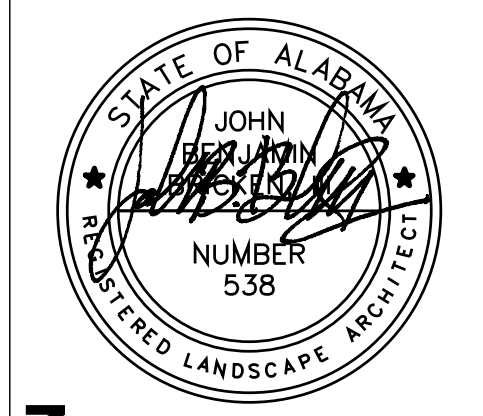
- ESP-LXD CONTROLLER COMES W/50 STATIONS AVAILABLE AND UP TO TWO ADDITIONAL 75 STATION ESPLXD-SM75 MODULES ADDED TO EXPAND THE CONTROLLER UP TO TOTAL STATIONS. REFER TO SCHEDULE FOR EXACT NUMBER OF STATIONS NEEDED FOR THIS PROJECT.
- USE STEEL CONDUIT FOR ABOVE GRADE CONDITIONS AND SCH 40 PVC CONDUIT FOR BELOW CONDITIONS. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS. INSTALL GROUNDING AS PER MANUFACTURER'S RECOMMENDATIONS.



3 RAIN BIRD RSD RAIN SENSOR - POLE MOUNT

NTS

INTEGRITY PARK PHASE II
CITY OF SPANISH FORT
SPANISH FORT, ALABAMA



LANDSCAPE IRRIGATION
DETAILS

L2.07

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11 North Water Street
Suite 15250
Mobile, AL 36602
T 251.460.4006
GMCNETWORK.COM

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IFB SET	12.06.2023
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DRAWING FILE: L:\Mobile\PROJECT FOLDERS\2023\LMOB230008 Integrity Park Phase II\03 Construction Drawings - Specs\01_Primary\LMOBXXXXXX - IRRIGATION.dwg
PLOTTED: Dec 07, 2023 - 11:38am