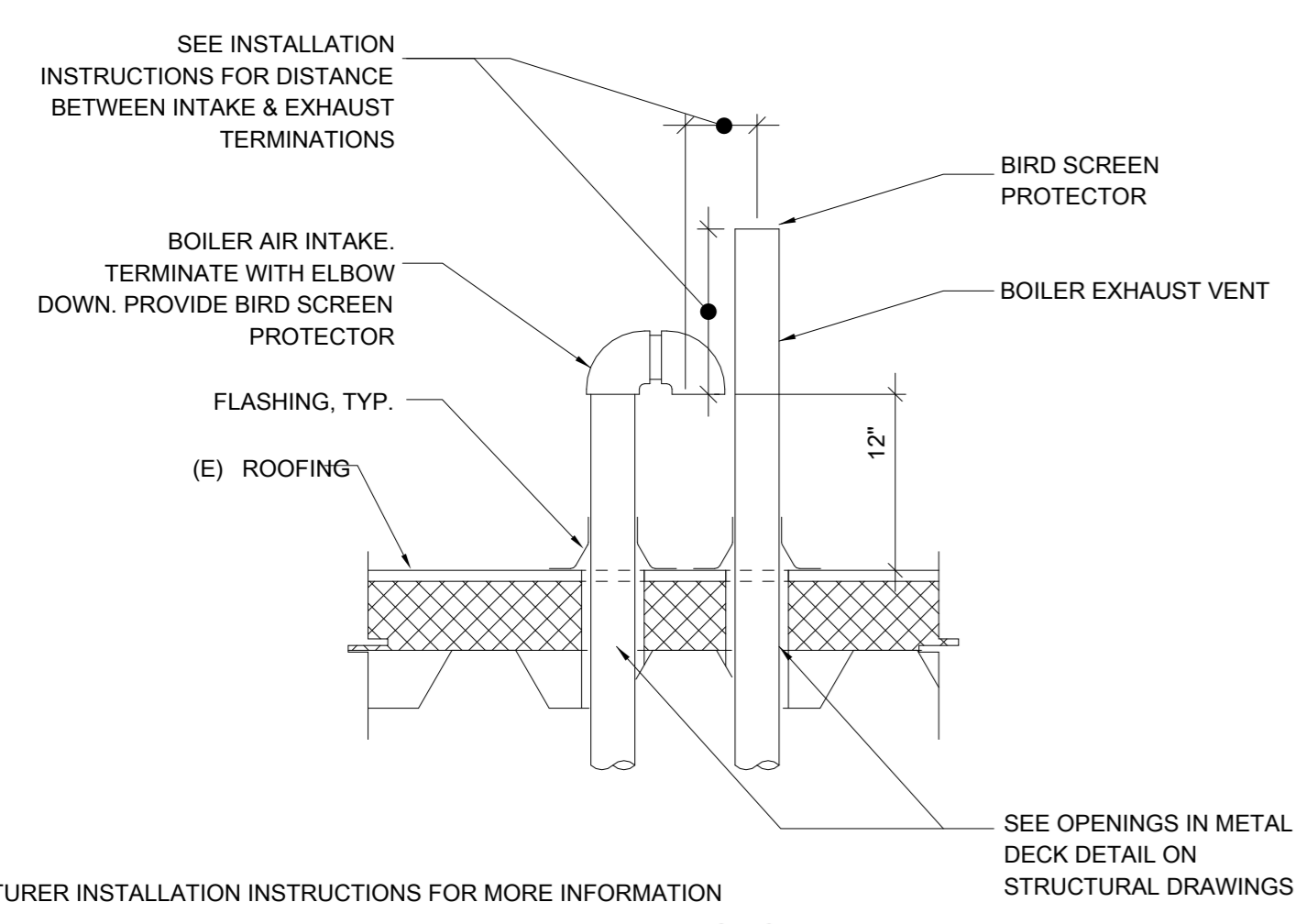
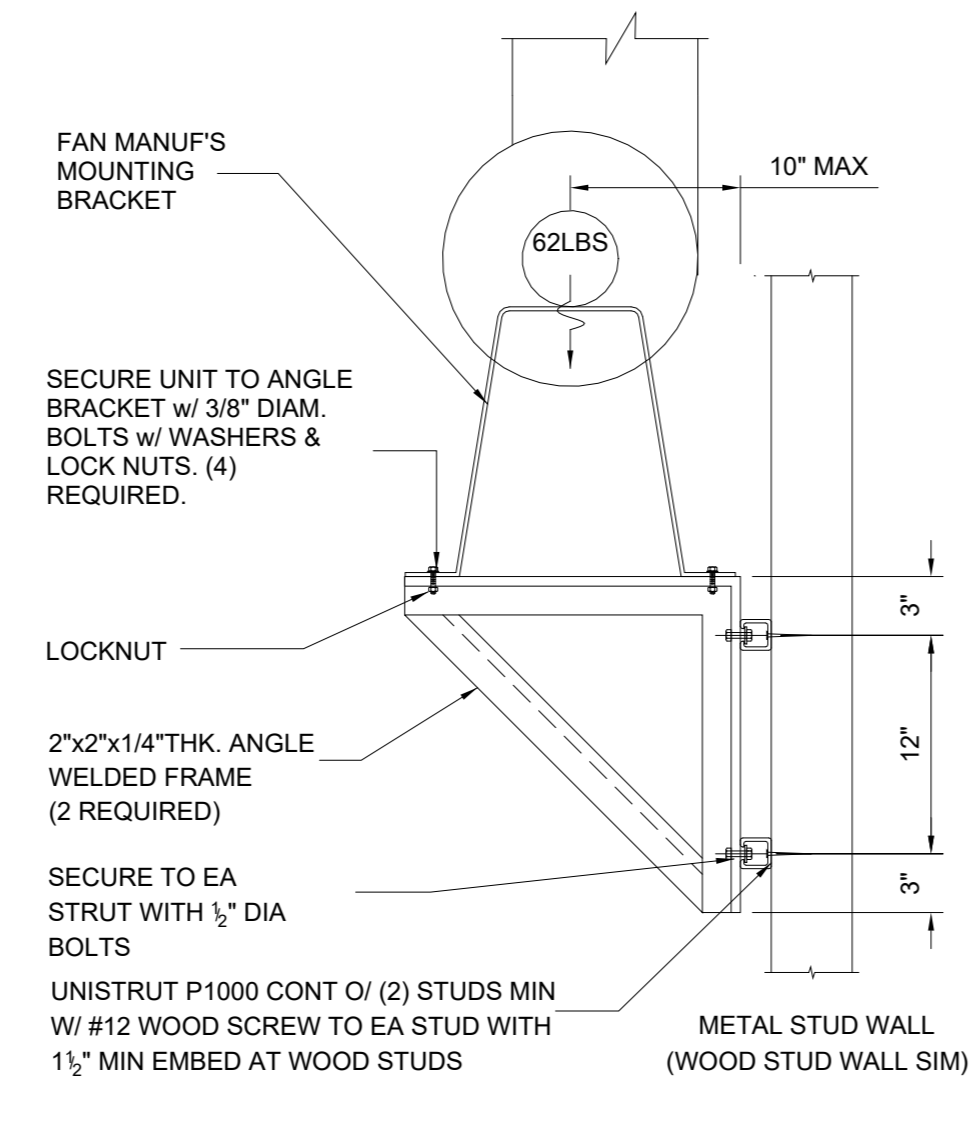


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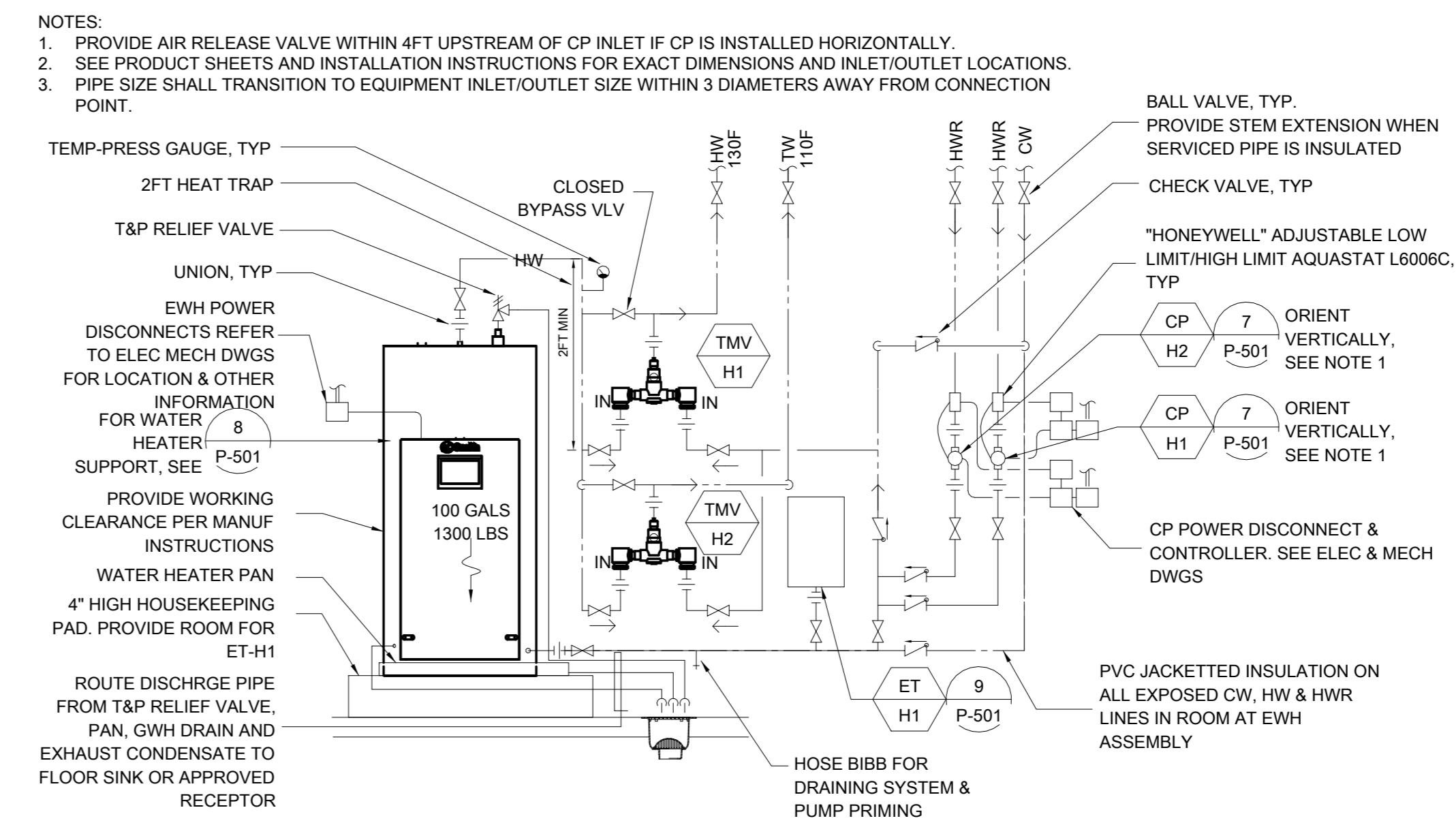
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4
P-501



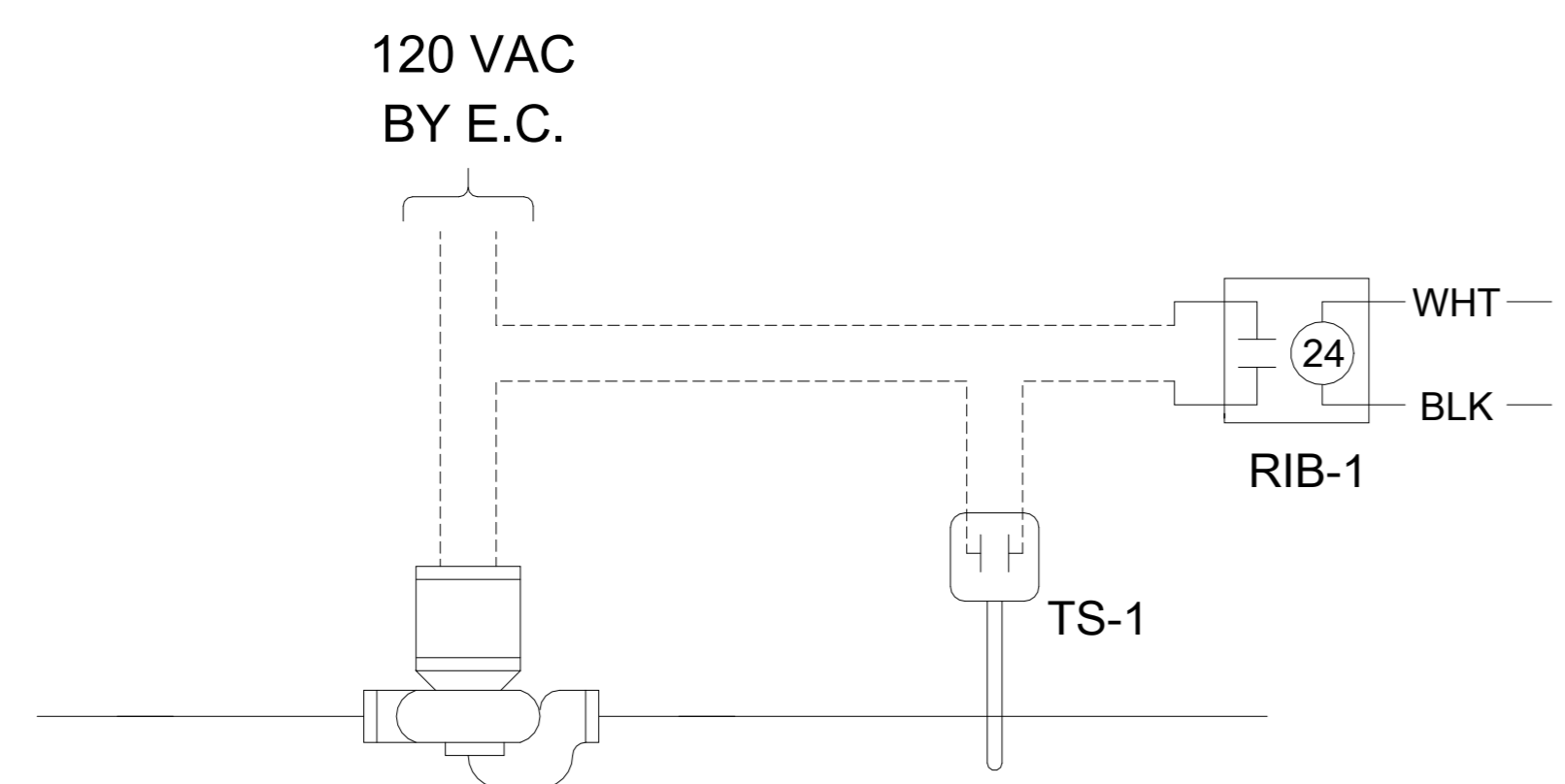
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P-501



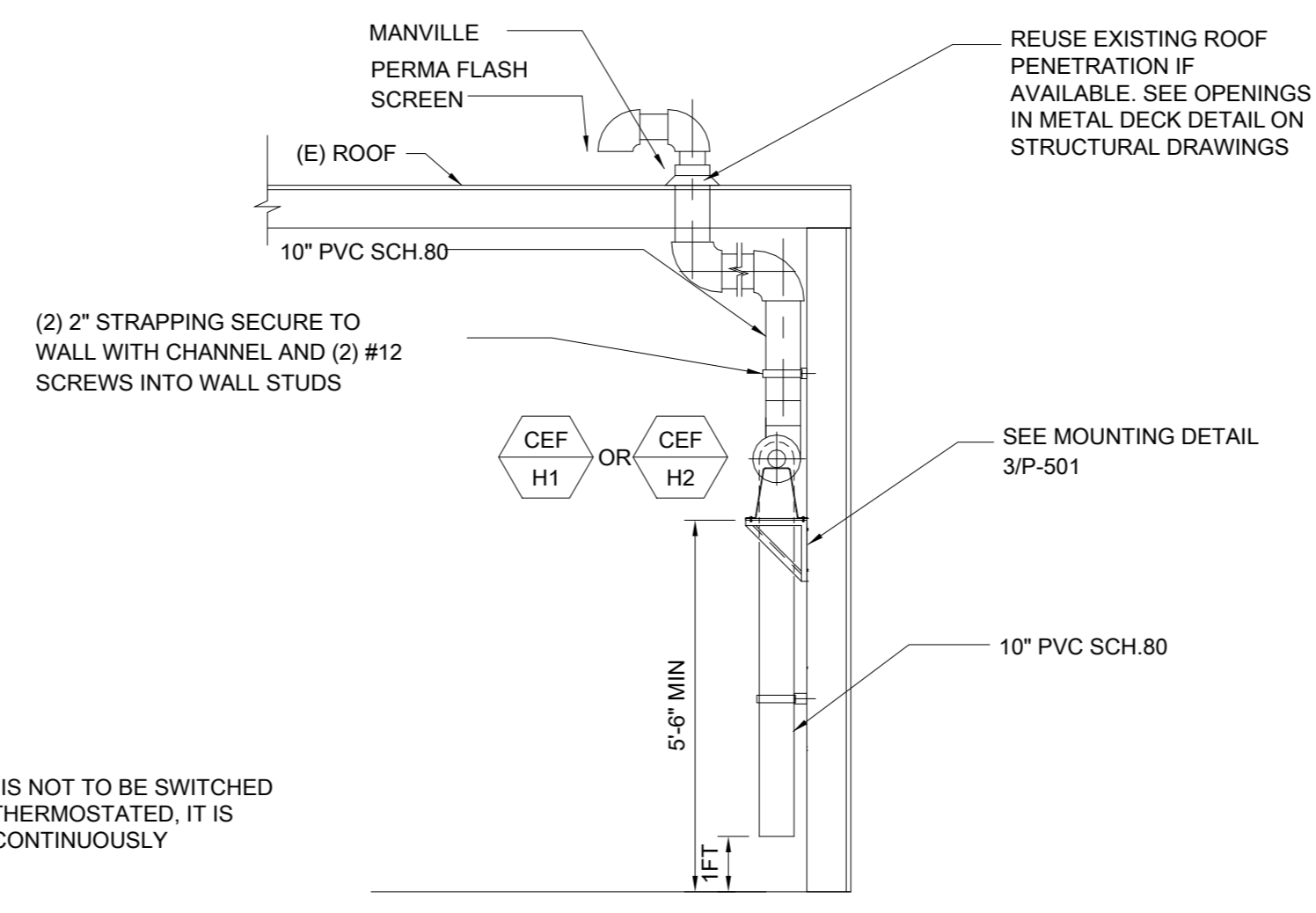
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P-501



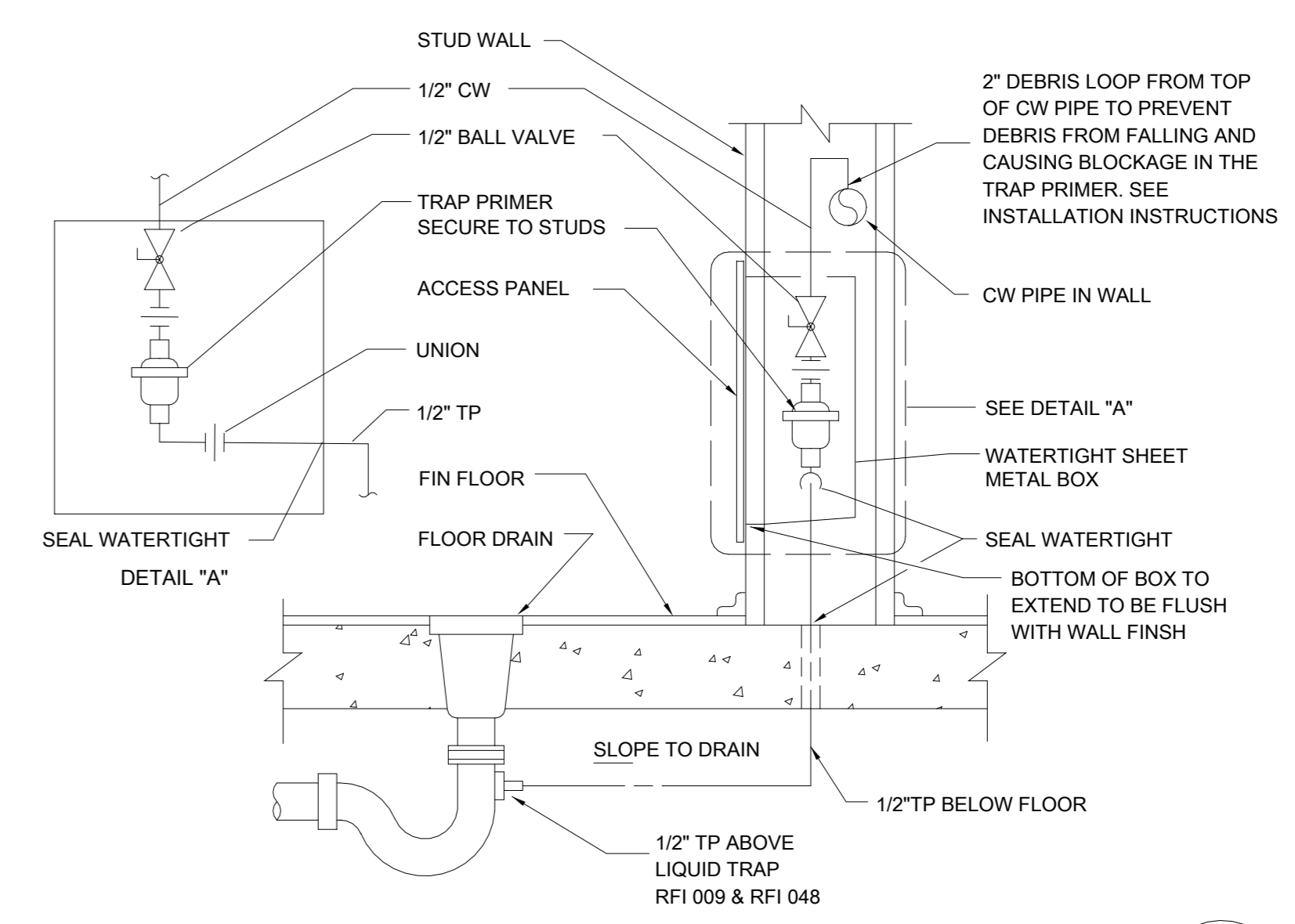
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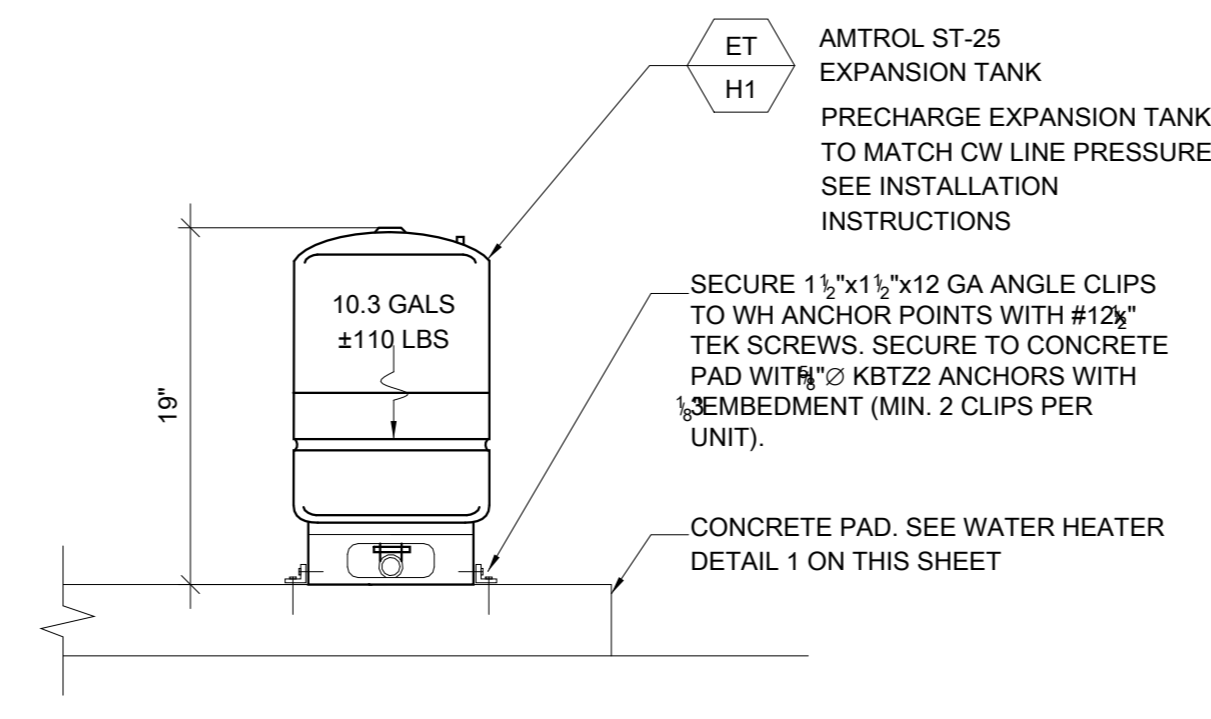
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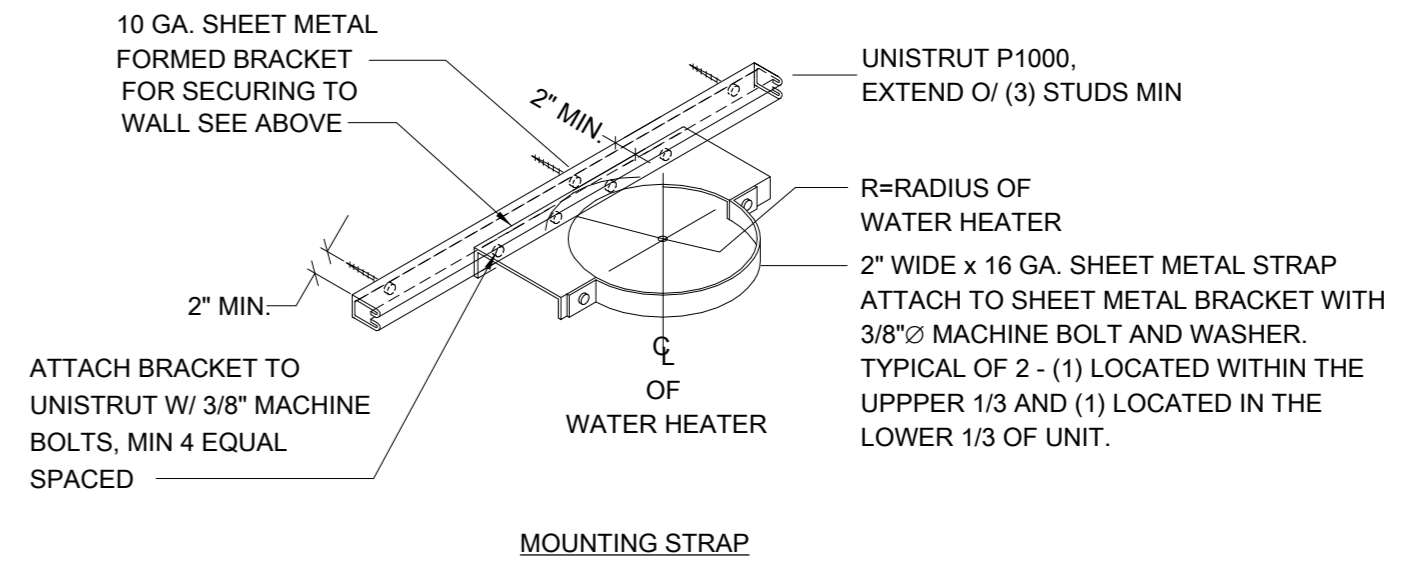
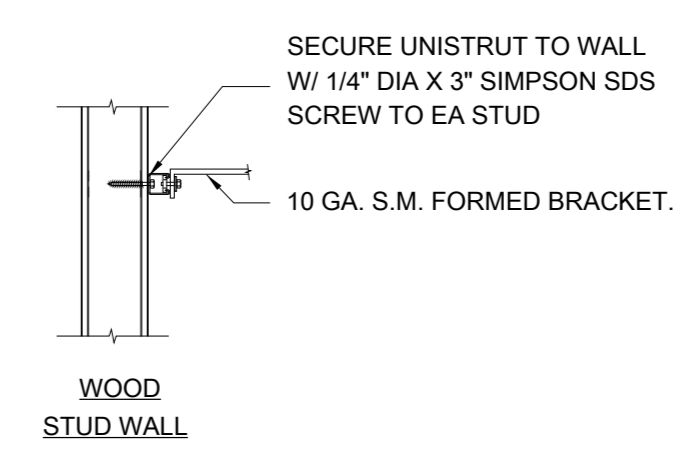
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P-501



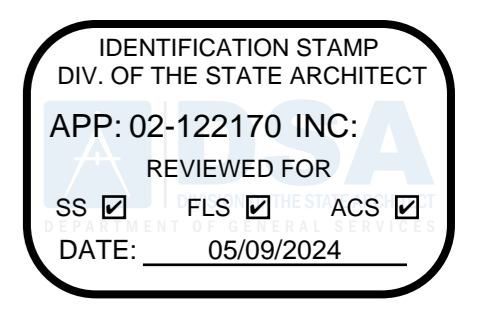
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SCALE: NONE

9
P-501



WATER HEATER SUPPORT
SCALE: NONE

8
P-501



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PROJECT
JOHN F KENNEDY HIGH SCHOOL SWIMMING POOL UPGRADE

6715 GLORIA DR
SACRAMENTO, CA 95831

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

ISSUED

MARK	DATE	DESCRIPTION
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TITLE
PLUMBING DETAILS

SHEET
P-501


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Addendum: 02/2024 SCUSD_IPMS Pool Upgrade 02/2024_MECHANSTR_024_CENTRAL.rvt

4/30/2024 9:15:00 AM

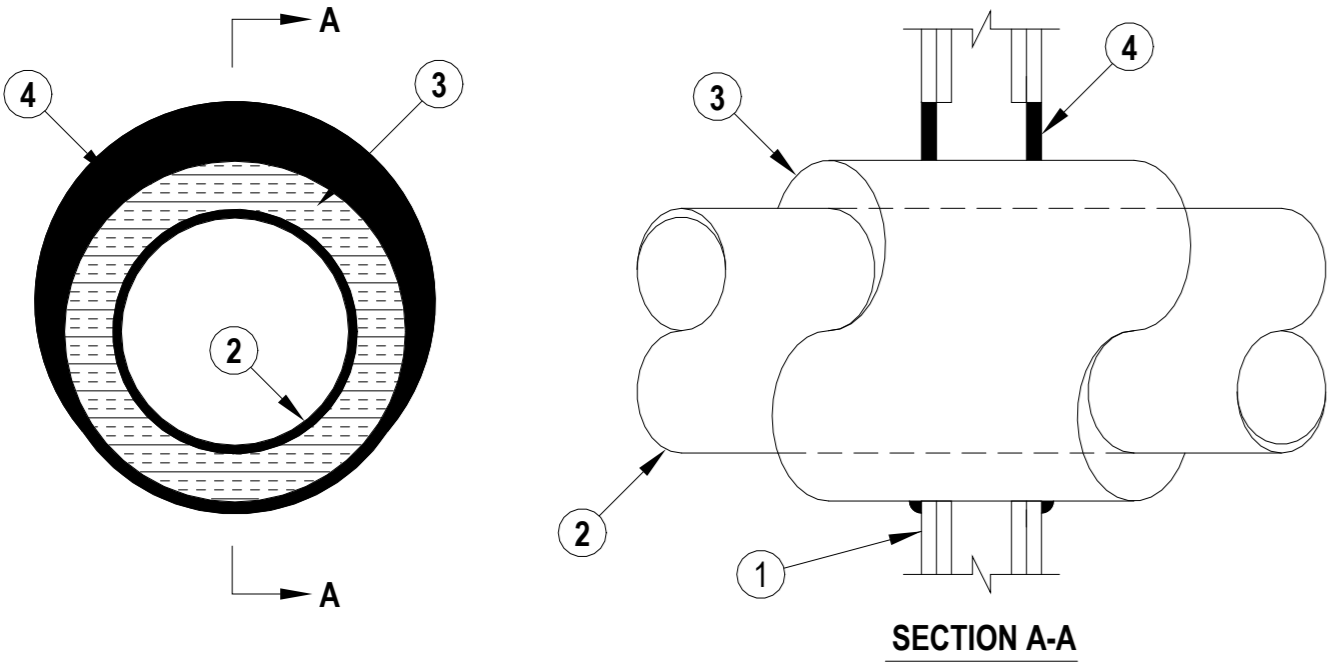


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CANULC S115

System No. W-L-5029

ANSI/UL1479 (ASTM E814)	CANULC S115
F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)	F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)
T Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)	FT Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
L Rating At Ambient — 4 CFM/Sq Ft	FH Ratings — 1, 2 and 3 Hr (See Items 1, 2 and 4)
L Rating At 400 F — Less Than 1 CFM/Sq Ft	FTH Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
	L Rating At Ambient — 4 CFM/Sq Ft
	L Rating At 400 F — Less Than 1 CFM/Sq Ft

W-L-5029




SECTION A-A

1. Wall Assembly — The 1, 2 or 3 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

- Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide for 1 and 2 hr F and FH rating and 3-1/2 in. (89 mm) wide for 3 hr F and FH rating and spaced max 24 in. (610 mm) OC.
- Gypsum Board* — Min 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in. (473 mm). The hourly F and FH Ratings of the freestop system are equal to the hourly fire rating of the wall assembly in which it is installed.


2. Through Penetrants — One metallic pipe or tubing to be installed within the freestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:

- Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
- Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
- Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. When the hourly F or FH Rating of the freestop system is 3 hr, the nom diam of copper tube shall not exceed 4 in. (102 mm).
- Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe. When the hourly F or FH Rating of the freestop system is 3 hr, the nom diam of copper pipe shall not exceed 4 in. (102 mm).



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Page: 1 of 2



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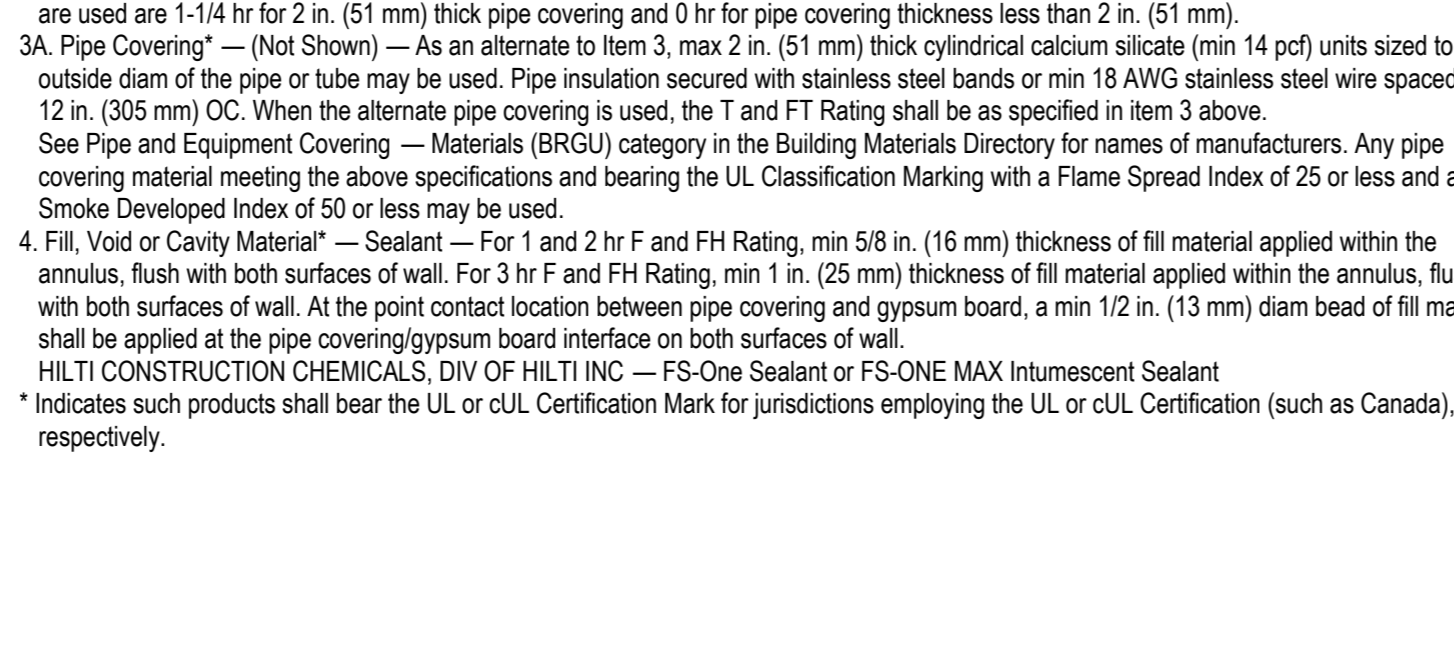
System No. W-L-5029

3. Pipe Covering* — Nom 1, 1-1/2 or 2 in. (25, 38 or 51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m³) glass fiber units jacked on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with but tape supplied with the product. For 1 and 2 hr F and FH Ratings, the annular space between insulated penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). For 3 hr F and FH Ratings, the annular space shall be min 0 in. (point contact) to max 1-1/4 in. (32 mm).
See Pipe and Equipment Covering — Materials (BRGU) category in the Building Material Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
The hourly T, FT, FTH Ratings of the freestop system are 1/2 hr for 1 hr rated walls and 1 hr for 2 hr rated walls. For 3 hr rated walls, the hourly T, FT and FTH Ratings when steel and iron pipes are used are 1 hr. For 3 hr rated walls, the hourly T, FT and FTH Ratings when copper penetrants are used are 1-1/4 hr for 2 in. (51 mm) thick pipe covering and 0 hr for pipe covering thickness less than 2 in. (51 mm).


3A. Pipe Covering* — (Not Shown) — As an alternate to item 3, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 18 AWG stainless steel wire spaced max 12 in. (305 mm) OC. When the alternate pipe covering is used, the T and FT Rating shall be as specified in item 3 above.

4. Fill, Void or Cavity Material* — Sealant — For 1 and 2 hr F and FH Rating, min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. For 3 hr F and FH Rating, min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

W-L-5029




SECTION A-A



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Page: 2 of 2

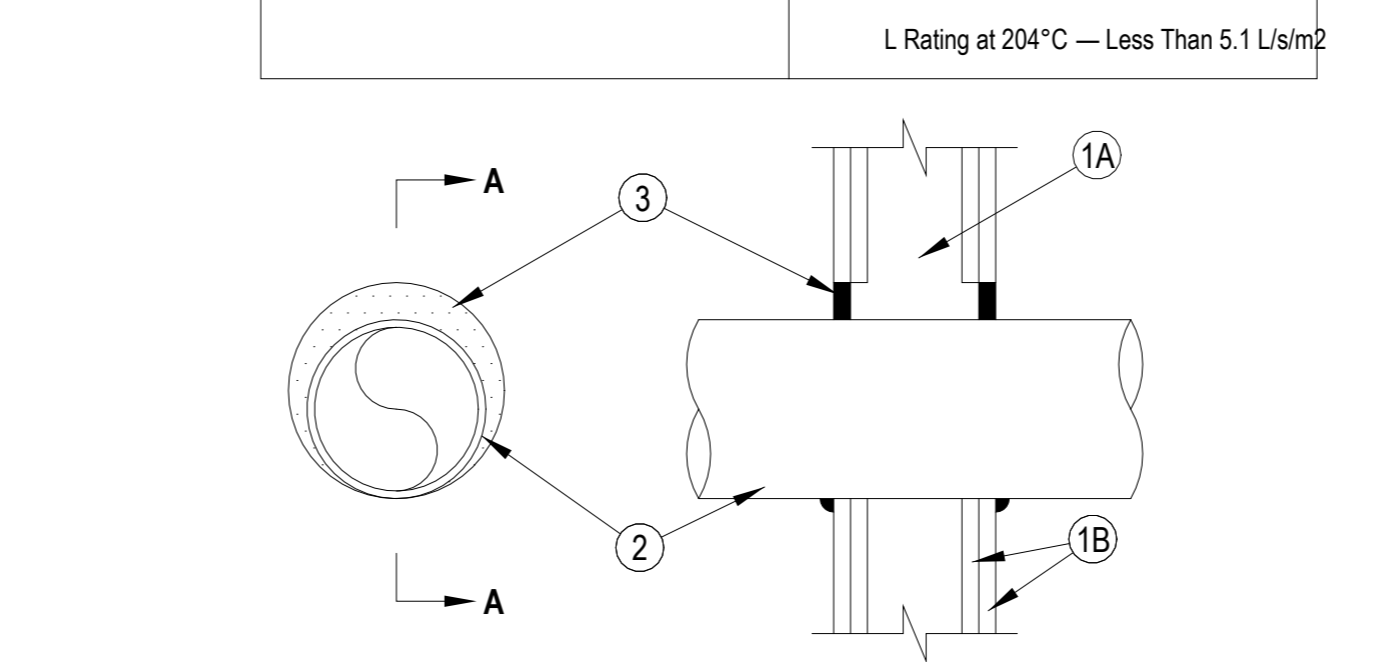


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to UL 1479 and CANULC S115

System No. W-L-1054

ANSI/UL1479 (ASTM E814)	CANULC S115
F Ratings — 1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating (Without Movement) at Ambient — Less Than 1 CFM/Sq Ft	FH Ratings — 1 and 2 Hr (See Items 1 and 3)
L Rating (Without Movement) at 400°F — Less Than 1 CFM/Sq Ft	FTH Rating — 0 Hr
M Rating (Movement) — See Table 1	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 5.1 L/s/m ²
	L Rating at 204°C — Less Than 5.1 L/s/m ²


W-L-1054



SECTION A-A


1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

- Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. For M Rating, steel studs to be min 3-5/8 in. (92 mm) wide. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
- Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 12-1/4 in. (315 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls. The F and FH Ratings of the freestop system are equal to the fire rating of the wall assembly. The M Rating is applicable only to 1 hr rated walls.



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January 21, 2020

Page: 1 of 2

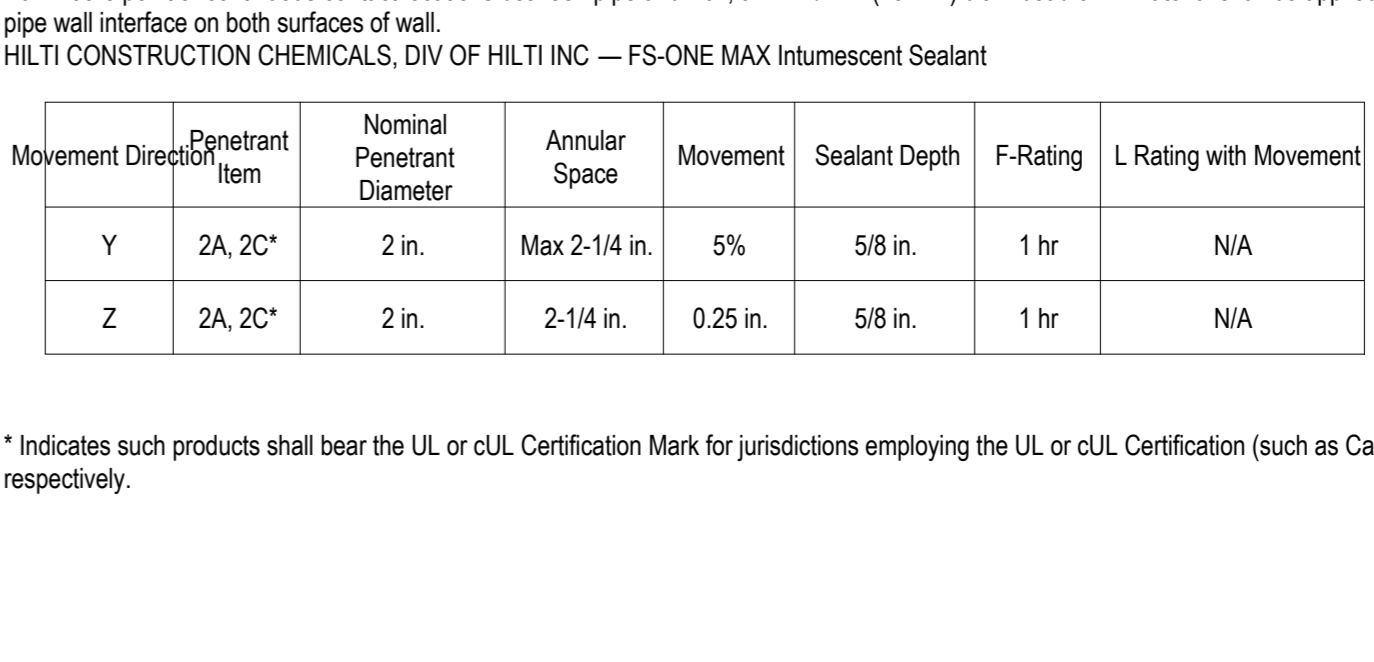


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CANULC S115

System No. W-L-1054

ANSI/UL1479 (ASTM E814)	CANULC S115
F Ratings — 1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating (Without Movement) at Ambient — Less Than 1 CFM/Sq Ft	FH Ratings — 1 and 2 Hr (See Items 1 and 3)
L Rating (Without Movement) at 400°F — Less Than 1 CFM/Sq Ft	FTH Rating — 0 Hr
M Rating (Movement) — See Table 1	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 5.1 L/s/m ²
	L Rating at 204°C — Less Than 5.1 L/s/m ²

W-L-1054



SECTION A-A


2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the freestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

- Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
- Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
- Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) diam steel conduit.
- Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
- Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.

3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — FS-ONE MAX Intumescent Sealant

Movement Direction	Penetrant Item	Nominal Penetrant Diameter	Annular Space	Movement	Sealant Depth	F-Rating	L Rating with Movement
Y	2A, 2C*	2 in.	Max 2-1/4 in.	5%	5/8 in.	1 hr	N/A
Z	2A, 2C*	2 in.	2-1/4 in.	0.25 in.	5/8 in.	1 hr	N/A

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



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January 21, 2020

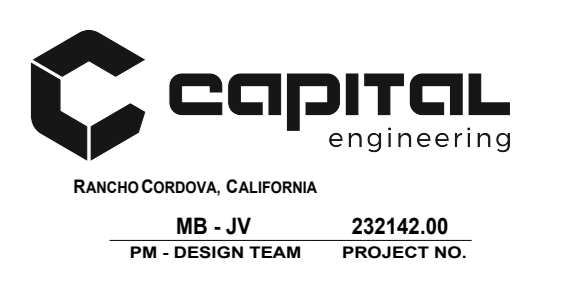
Page: 2 of 2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122170 INC.
REVIEWED FOR
DATE: 05/09/2024

LIONAKIS

2025 Nineteenth Street
Sacramento CA 95818
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CONSULTANT



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SEAL



DATE SIGNED: 2024-04-29

PROJECT
**JOHN F KENNEDY HIGH SCHOOL
SWIMMING POOL UPGRADE**

6715 GLORIA DR
SACRAMENTO, CA 95831

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

ISSUED		
MARK	DATE	DESCRIPTION

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TITLE
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SHEET
P-502

FIRE PENETRATION DETAIL

SCALE: NONE

1
P-502

This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 120.3, and 140.5, and with requirements in 141.0 for additions and alterations, for domestic water heating systems using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations.

Project Name: JFK Pool Modernization Report Page: (Page 1 of 5)
Project Address: 2024-03-12T14:02:04-04:00

A. GENERAL INFORMATION table with columns for Project Location (city), Climate Zone, and Occupancy Types Within Project.

B. PROJECT SCOPE
This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140.170.2(d) and 141.0(a) / 180.1, or 141.0(b)(2) / 180.2 for additions or alterations. Solar water heating systems are documented on the NRC-SAB compliance document. Combined hydronic water heating systems are documented on the NRC-MCH compliance document.

Table with columns for System Type, System Components, and checkboxes for Equipment, Distribution, and Controls.

C. COMPLIANCE RESULTS
Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.

Table with columns for Domestic Hot Water Equipment, Distribution Systems, Controls, and Compliance Results.

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 183879-0324-0002 Schema Version: rev 20220101 Report Generated: 2024-03-12 11:02:06

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Table for Additional Remarks.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 183879-0324-0002 Schema Version: rev 20220101 Report Generated: 2024-03-12 11:02:06

F. DOMESTIC HOT WATER EQUIPMENT
This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1 / 180.2 for addition and alteration scopes.

Table for Domestic Hot Water Equipment with columns for System Name, EWH-H1, Exception to 140.5(c) / 170.2(d), Exceptions Do Not Apply, Gas Service Water Heating System, Capacity-weighted Average Efficiency %, and Standby Loss.

FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.
FOOTNOTE: Compliant equipment may be found in the Modernized Appliance Efficiency Database System (MAEDBS) on the Energy Commission website: https://caenergy.com/appliances/energy.ca.gov/Pages/Search/AdvancedSearch.aspx

Water Heating Equipment All Occupancies table with columns for Yes, No, Not Applicable, and Requirement.

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 183879-0324-0002 Schema Version: rev 20220101 Report Generated: 2024-03-12 11:02:06

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
There are no forms required for this project.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 183879-0324-0002 Schema Version: rev 20220101 Report Generated: 2024-03-12 11:02:06

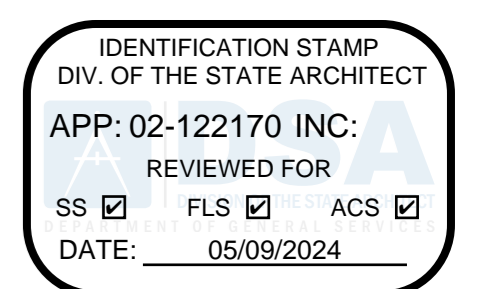
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: David Yasiniky
Company: Capital Engineering Consultants
Address: 11020 Sun Center Drive, Suite 100
City/State/Zip: Rancho Cordova, CA 95670

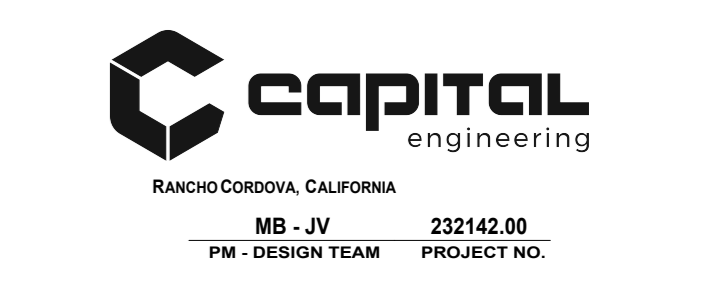
RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin Stillman
Company: Capital Engineering Consultants
Address: 11020 Sun Center Drive, Suite 100
City/State/Zip: Rancho Cordova, CA 95670

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 183879-0324-0002 Schema Version: rev 20220101 Report Generated: 2024-03-12 11:02:06



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PROJECT
JOHN F KENNEDY HIGH SCHOOL
SWIMMING POOL UPGRADE

6715 GLORIA DR
SACRAMENTO, CA 95831

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

ISSUED table with columns for MARK, DATE, and DESCRIPTION.

MANAGEMENT
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CLIENT PROJECT NO:
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TITLE
TITLE 24 COMPLIANCE

SHEET
P-701

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Autodesk Doc: 1026264_SCSUJ-FKMS Pool Upgrade022624_MECHMSTR_024-CENTRAL.rvt
4/30/2024 9:15:05 AM

EQUIPMENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.17 THROUGH 1617A.1.20 & 1617A.1.23 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICAL, GAS OR WATER, "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2022 CBC, SECTIONS 1617A.1.24 THROUGH 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E).

- MP MD PP E OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
MP MD PP E OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PRE-APPROVAL. PRE-APPROVAL (OPM#) #

DEMOLITION GENERAL NOTES

ALL DEMOLITION GENERAL NOTES SHOWN BELOW ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.

- 1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT, AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEYS AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON-SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
2. CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING UTILITIES AND/OR OTHER EXISTING FACILITY'S SYSTEMS AND SERVICES AS POSSIBLE. CONTRACTOR SHALL NOTIFY THE OWNER/DISTRICT'S REPRESENTATIVE AT LEAST 72 HOURS TO SCHEDULE ALL NECESSARY SHUTDOWN, SHUTDOWN WORK SHALL BE PERFORMED AFTER THE NORMAL OPERATION HOURS OF THE FACILITY, IF SO DIRECTED BY THE OWNER/DISTRICT'S REPRESENTATIVE.
3. ALL REMOVED AND/OR DEMOLISHED ELECTRICAL MATERIALS AND EQUIPMENT TO BE ACCOMPLISHED UNDER THIS CONTRACT, WHICH IN THE OPINION OF THE OWNER/DISTRICT'S REPRESENTATIVE ARE DEEMED SALVAGEABLE, SHALL REMAIN THE PROPERTY OF THE OWNER/DISTRICT. ALL ELECTRICAL MATERIAL AND EQUIPMENT CONSIDERED NOT SALVAGEABLE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR ACCORDINGLY.
4. WHERE REMOVAL OF AN EXISTING SYSTEM'S DEVICE WILL RESULT IN LOSS OF CIRCUIT CONTINUITY, THE ISOLATED PORTIONS OF THE CIRCUIT SHALL BE RECONNECTED TO PROVIDE SERVICE TO ALL REMAINING DEVICES. IF SITE CONDITIONS MAKE RECONNECTION IMPOSSIBLE, CONNECTION SHALL BE MADE FROM AN ADJACENT AVAILABLE DEVICE AS NOTED AND/OR AS DIRECTED BY THE ARCHITECT AND/OR THE OWNER/DISTRICT'S REPRESENTATIVE.
5. WHERE EXISTING CONCEALED CONDUITS, WHETHER SHOWN OR NOT, OR SPECIFIED TO BE REUSED, WHICH BECAME EXPOSED DUE TO CONSTRUCTION CHANGES, IT SHALL BE REROUTED TO THE NEAREST AVAILABLE REUSED OUTLET.
6. ALL EXISTING EXPOSED CONDUITS AND/OR WIRING THAT ARE DETERMINED BY THE DISTRICT AND ARCHITECT TO BE MAINTAINED FOR EXISTING SYSTEM FUNCTION AND CONTINUITY, WHETHER SHOWN ON PLAN OR NOT, ARE TO BE REROUTED CONCEALED IN WALL AND/OR CEILING FOR A CLEAN FINISHED SURFACE WITH NO EXPOSED CONDUITS AND/OR WIRING WITHIN THE REMODELED AREA.
7. REMOVE ALL EXISTING EXPOSED CONDUITS, WIRING, ELECTRICAL OUTLETS, DEVICES, AND EQUIPMENT THAT ARE DETERMINED BY THE DISTRICT REPRESENTATIVE/OWNER AND ARCHITECT TO BE NON FUNCTIONAL AND/OR NOT BEING USED FROM WITHIN THE REMODELED AREA FOR A CLEAN FINISHED SURFACE.
8. WHERE EXISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INsofar AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO:
A. REMOVE ALL WIRE AND CABLE.
B. REMOVE ALL DEVICES AND EQUIPMENT.
C. REMOVE ALL EXPOSED CONDUIT AND CONDUIT IN ACCESSIBLE CONCEALED AREAS, AS FAR AS POSSIBLE.
D. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.
9. WHEREVER EXISTING ELECTRICAL DEVICES, PANELS, CONDUITS, CABLES, ETC., CONFLICT WITH REMODEL WORK, WHETHER SHOWN OR NOT, RELOCATE THESE ITEMS AS DIRECTED BY THE ARCHITECT AND/OR OWNER/DISTRICT'S REPRESENTATIVE.
10. WHERE SHOWN ON PLAN FOR REMOVAL OF EXISTING CONDUITS, REMOVE ALL PORTIONS OF CONDUITS WHERE IT IS ACCESSIBLE AND ABANDON PORTIONS OF CONDUITS WHERE IT IS INACCESSIBLE. CUT OFF AND CAP ALL ABANDONED CONDUITS. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.
11. CONTRACTOR SHALL UPDATE WITH NEW TYPED WRITTEN PANEL DIRECTORIES TO EXISTING PANELS INVOLVED IN THIS RENOVATION WORK THAT SHALL REFLECT ALL CHANGES TO THE CIRCUIT DESIGNATIONS.
12. PROVIDE AND INSTALL PROTECTIVE COVERING OVER EXISTING EQUIPMENT IN AREA WHEN INSTALLING ANY NEW WORK.
13. COORDINATE WITH OTHER TRADES AND PROMPTLY TRANSMIT ALL INFORMATION REQUIRED BY THEM. COORDINATE THE SEQUENCE OF DEMOLITION WITH OTHER TRADES TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY.
14. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR HEATERS, EXHAUST FANS, WATER HEATERS, PUMPS, ETC., WHICH ARE REQUIRED TO BE DISCONNECTED BY THE ELECTRICAL CONTRACTOR FOR REMOVAL OR ABANDONMENT BY THE MECHANICAL AND/OR PLUMBING CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE SEQUENCE OF WORK WITH THE MECHANICAL AND/OR PLUMBING CONTRACTOR FOR REMOVAL OF ALL APPLICABLE STARTERS, DISCONNECT SWITCHES, AND ASSOCIATED CONDUIT, AND WIRING.
15. ALL LIGHT FIXTURES INDICATED AS RELOCATED SHALL BE CLEANED AND RE-LAMPED PRIOR TO THE RE-INSTALLATION.

GENERAL NOTES

ALL GENERAL NOTES SHOWN BELOW ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.

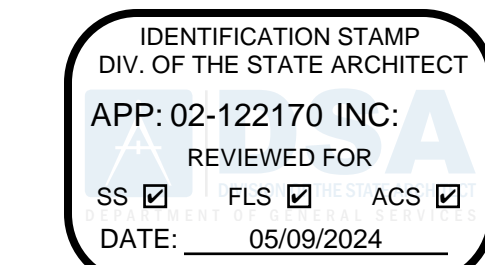
- 1. THESE GENERAL NOTES ARE INTENDED TO ASSIST THE CONTRACTOR IN THE EXECUTION OF THE ELECTRICAL WORK AND TO BE INCLUDED IN CONJUNCTION WITH THE CONTRACT DOCUMENT DRAWINGS AND SPECIFICATION REQUIREMENTS. SOME OF THE GENERAL NOTES ARE EXCERPTS FROM THE SPECIFICATION.
2. PROCURE PERMITS AND LICENSES REQUIRED. PAY ALL NECESSARY FEES AND ARRANGE FOR INSPECTIONS REQUIRED BY LOCAL CODES AND ORDINANCES AND UTILITY COMPANIES.
3. COORDINATE ALL ELECTRICAL SERVICES WITH THE RESPECTIVE UTILITY COMPANIES AND PROVIDE ALL TRENCHING, CONDUITS, WIRING, METER FACILITIES AND OUTLETS REQUIRED BY THEM.
4. WORKMANSHIP SHALL BE OF THE HIGHEST GRADE. DEFECTIVE EQUIPMENT OR EQUIPMENT DAMAGED IN THE COURSE OF INSTALLATION OR TEST SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING WITH THE ACCEPTANCE OF THE ARCHITECT.
5. INSTALL ALL EQUIPMENT, CONDUITS, OUTLETS, AND FIXTURES IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF ALL APPLICABLE CODES (CEC, STATE, COUNTY AND CITY).
6. DO NOT SCALE PLANS FOR FIXTURES, DEVICES, OR APPLIANCE LOCATIONS. USE FIGURED DIMENSIONS IF GIVEN OR CHECK MECHANICAL AND ARCHITECTURAL PLANS. ALSO REFER TO ACTUAL ON-SITE CONDITIONS.
7. ALL MATERIAL AND EQUIPMENT IS TO BE LISTED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND CEC 110.3.
8. ALL ELECTRICAL DEVICES AND EQUIPMENT, FIXTURES, CONDUITS AND WIRING SHOWN ON THESE PLANS ARE NEW, UNLESS OTHERWISE NOTED.
9. OUTLET BOXES INSTALLED IN FIRE WALLS SHALL BE ONE-PIECE STEEL AND INSTALLED IN SEPARATE (STAGGERED) STUD PENETRATIONS. MINIMUM 24 INCHES HORIZONTAL SEPARATION. FIRE WALLS SHALL BE MADE IN ACCORDANCE WITH CBC AND ELECTRICAL CODES.
10. THE FINAL LOCATION OF ALL OUTLETS SHALL BE VERIFIED WITH THE ARCHITECT AND/OR OWNER AT TIME OF CONSTRUCTION.
11. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE WEATHER-PROTECTED.
12. CONTRACTOR SHALL VERIFY THAT ALL LIGHTING FIXTURES, CEILING TRIMS, AND FRAMES ARE COMPATIBLE WITH CEILING SYSTEM INSTALLED.
13. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATIONS AND INSTALLATIONS WITH THE MECHANICAL CONTRACTOR. MAINTAIN REQUIRED CLEARANCES (MINIMUM 3 INCHES) BETWEEN THE LIGHT FIXTURES AND MECHANICAL DUCTS OR EQUIPMENT FOR PROPER OPERATION, INSTALLATION AND/OR REMOVAL OF FIXTURES.
14. BEFORE SUBMITTING FOR ARCHITECT'S REVIEW AND PLACING ORDER FOR THE LIGHT FIXTURES, THE CONTRACTOR SHALL VERIFY THE VOLTAGE OF ALL THE LIGHTING FIXTURES TO MATCH THE VOLTAGE OF THE SERVICE PANEL, WHETHER THE VOLTAGE FOR THE LIGHT FIXTURES ARE SHOWN ON THE PLAN OR NOT.
15. PLACEMENT AND CIRCUITING OF EXIT SIGNS AND EGRESS LIGHTING SHALL COMPLY WITH CBC REQUIREMENTS.
16. ALL CONDUIT SHALL BE ROUTED CONCEALED UNLESS NOTED ON PLAN OR ACCEPTED BY THE ARCHITECT.
17. PROVIDE ALL NECESSARY SLEEVES AND INSERTS FOR ALL WORK PASSING THROUGH OR ATTACHING TO WALLS, FLOORS, OR CEILINGS.
18. ALL WIRING SHALL BE INSTALLED IN RIGID METALLIC CONDUIT, UNLESS OTHERWISE NOTED. CONDUITS INSTALLED CONCEALED IN WALL AND CEILING MAY BE EMT WITH STEEL COMPRESSION TYPE FITTINGS. PVC WHERE INSTALLED UNDERGROUND AND/OR UNDER SLAB. ALL EXPOSED CONDUITS SHALL BE RIGID STEEL CONDUITS WITH THREADED TYPE FITTINGS. INSTALL ALL CONDUITS IN ACCORDANCE WITH CEA STANDARDS OF INSTALLATION.
19. ELECTRICAL NON-METALLIC TUBING (ENT) AND MC CABLE ARE NOT PERMITTED TO BE USED FOR THIS PROJECT, NO EXCEPTIONS.
20. WHERE EXISTING CONDUITS, CONCEALED OR EXPOSED, AND (WIREMOLD) SURFACE RACEWAY IS NOT IN PLACE AS SHOWN ON PLANS, PROVIDE NEW CONDUITS AND (WIREMOLD) SURFACE RACEWAY FOR THE NEW WORK. VERIFY EXISTING CONDITION ON SITE AND PROVIDE ALL NECESSARY NEW MATERIAL, APPARATUS, AND WORK THAT ARE REQUIRED TO BE INCLUDED IN THE BID PACKAGE.
21. CONDUCTORS, #8 AND LARGER, SHALL BE STRANDED COPPER WITH THHN/THWN INSULATION, UNLESS OTHERWISE NOTED.
22. PROVIDE WORKING CLEARANCE PER CEC 110.26 FOR SERVICE PANEL, SUBPANELS, MOTOR DISCONNECT SWITCHES, CONTROL SECTIONS, HVAC EQUIPMENT, APPLIANCES, ETC.
23. PROVIDE A WARNING LABEL (SIGN) CLEARLY VISIBLE TO QUALIFIED PERSONS TO COMPLY WITH NEC AND CEC 116.16 OF POTENTIAL ELECTRIC ARC FLASH HAZARDS AT SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED. SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT PER CEC SECTION 110.24(A).
24. BUILDING SERVICE AND SUBPANELS TO COMPLY WITH CEC 110.9 AND 110.10 INTERRUPTING RATING AND BRACING. PROVIDE A.I.C. CALCULATIONS FOR SUBPANELS IF INTERRUPTING RATING TO BE USED IS LOWER THAN MAIN SERVICE RATING.
25. ALL APPLIANCES SHALL COMPLY WITH CEC ARTICLE 422. APPLIANCE CONTROL AND PROTECTION PER CEC 422-III; BRANCH CIRCUITS PER 422-II.
26. BUILDING EXPANSION JOINTS MAY OR MAY NOT BE INDICATED ON THE ELECTRICAL DRAWINGS. VERIFY THE LOCATIONS OF ALL APPLICABLE BUILDING EXPANSION JOINTS WITH THE ARCHITECTURAL DRAWINGS. WIRING METHODS ACROSS EXPANSION JOINTS SHALL INCLUDE USE OF FLEXIBLE FITTINGS OR OTHER DEVICES AS APPROPRIATE TO EACH APPLICATION. IN NO CASE SHALL CONDUIT CROSS SUCH A JOINT IN BUILDING CONSTRUCTION WITHOUT USE OF THE APPROPRIATE WIRING METHODS.
27. CONTRACTOR SHALL SIZE ALL THE INTERIOR AND EXTERIOR BUILDING PULL BOXES AND UNDERGROUND PULL BOXES PER CEC 314.16 AND COMPLY WITH CEC 314.28 FOR INSTALLATION OF RACEWAYS AND WIRING AS REQUIRED BY CODE, UNLESS OTHERWISE NOTED.
28. WHERE ACCESSIBILITY IS NOT AVAILABLE TO ELECTRICAL OUTLETS, DEVICES AND/OR EQUIPMENT, COORDINATE WITH THE ARCHITECT FOR PROVISIONS TO PROVIDE ACCESSIBILITY TO THEM.
29. CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE MECHANICAL DRAWINGS AND PROVIDES ALL CONDUITS AND CONTROL WIRING AND POWER WIRING SHOWN ON THE MECHANICAL DRAWINGS THAT IS NOT SHOWN ON THE ELECTRICAL PLANS.
30. CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS AND COORDINATE FOR THE EQUIPMENT LOCATIONS. COORDINATE ROOF PENETRATION WITH THE MECHANICAL CONTRACTOR FOR MECHANICAL CONNECTIONS. ENTER ROOF MOUNTED UNITS THROUGH EQUIPMENT MOUNTING CURBS WHERE POSSIBLE. VERIFY ON-SITE.
31. PROVIDE CONVENIENCE OUTLET WITHIN 25 FEET OF MECHANICAL EQUIPMENT PER U.M.C. WHERE LOCATED OUTSIDE, PROVIDE WEATHER PROOF AND GFCI CONVENIENCE OUTLET. SECURE ROOF MOUNTED OUTLET TO THE MECHANICAL EQUIPMENT. VERIFY LOCATION IN FIELD WITH THE MECHANICAL CONTRACTOR.
32. VERIFY SINGLE-POINT CONNECTIONS TO ROOF MOUNTED HVAC UNITS WITH MECHANICAL CONTRACTOR ON-SITE PRIOR TO ELECTRICAL ROUGH-IN. PROVIDE DUAL DISCONNECTS IF TWO-POINT CONNECTIONS ARE REQUIRED, WHETHER SHOWN ON PLANS OR NOT.
33. SWITCH DEVICES CONTROLLING MECHANICAL EQUIPMENT SHALL BE SIZE AND TYPE REQUIRED AND SHALL BE SERVED WITH QUANTITY OF WIRES AS REQUIRED. REFER TO DIVISION 23 MECHANICAL PLANS AND SPECIFICATIONS.
34. COORDINATE THE HVAC EQUIPMENT FOR FUSES REQUIRE. WHERE FUSES ARE REQUIRED, VERIFY FUSE SIZE ON-SITE AND PROVIDE FOR HVAC EQUIPMENT PER UNIT NAMEPLATE SPECIFICATIONS.
35. MOTOR DISCONNECT SWITCHES SHALL COMPLY WITH CEC 430-IX AND 440.II.
36. MOTOR STARTERS FOR HVAC EQUIPMENT ARE PROVIDED BY MECHANICAL CONTRACTOR AND CONNECTED BY ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE.
37. ALL CONNECTIONS FROM THE DISCONNECT SWITCHES TO HVAC UNITS SHALL BE COPPER CONDUCTORS. MOTOR DISCONNECT SWITCHES SHALL COMPLY WITH CEC 430-VII, 430-VIII, AND 440-II.
38. VERIFY LOCATION AND HEIGHT OF ALL MECHANICAL OR FIXTURE EQUIPMENT OUTLETS WITH SUPPLIER PRIOR TO ANY ROUGH-IN WORK. PROVIDE ALL RUNS AND CONNECTIONS TO EQUIPMENT.
39. ALL TERMINATION PROVISIONS OF EQUIPMENT, INCLUDING CIRCUITS RATED 100 AMPERES OR LESS, SHALL BE RATED AT 60 DEGREE, CENTIGRADE PER CEC 110.14(c).
40. ALL LIGHT FIXTURES INSTALLED OVER FOOD HANDLING OR FOOD PREPARATION AREAS, OPEN FOOD STORAGE AND UTENSIL WASHING AREAS SHALL BE OF SHATTERPROOF CONSTRUCTION OR SHALL BE PROTECTED WITH SHATTERPROOF SHIELDS AND SHALL BE READILY CLEANABLE.
41. ALL CONDUITS SHALL BE CONCEALED BELOW SLAB, IN WALLS AND/OR ABOVE CEILING EXCEPT IN ELECTRICAL ROOMS, MECHANICAL ROOMS, AND OTHER SIMILAR UTILITY ROOMS AS APPROVED BY THE ARCHITECT. NO CONDUIT SHALL BE EXPOSED ON EXTERIOR BUILDING SURFACES WITHOUT PRIOR APPROVAL FROM THE ARCHITECT.
42. PROVIDE A CODE SIZED GROUND CONDUCTOR IN ALL CONDUITS WHETHER INDICATED ON PLANS OR NOT.

ELECTRICAL ABBREVIATIONS

Table with columns: ABBREV, DESCRIPTIONS, ABBREV, DESCRIPTIONS. Lists various electrical symbols and their meanings, such as MAXIMUM, MINIMUM, AMPERE FRAME, etc.

ELECTRICAL SHEET INDEX

Table with columns: SHEET NO, SHEET TITLE. Lists sheet numbers and titles like E001 ELECTRICAL SHEET INDEX, NOTES AND ABBREVIATIONS, E002 ELECTRICAL SYMBOL LEGEND, etc.



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PROJECT JOHN F KENNEDY HIGH SCHOOL SWIMMING POOL UPGRADE

6715 GLORIA DR SACRAMENTO, CA 95831

CLIENT SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

ISSUED table with columns: MARK, DATE, DESCRIPTION.

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TITLE ELECTRICAL SHEET INDEX, NOTES AND ABBREVIATIONS

SHEET

E001

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ELECTRICAL SYMBOL LEGEND

ALL SYMBOLS SHOWN IN THIS LEGEND ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
POWER		LIGHTING	
	MAIN SWITCHBOARD OR DISTRIBUTION BOARD, PAD OR FLOOR MOUNTED AS NOTED.		LED LUMINAIRE - T-BAR LAY-IN
	RECESSED MOUNTED LIGHTING OR DISTRIBUTION PANEL		LED LUMINAIRE - RECESSED IN GYPBOARD
	SURFACE MOUNTED LIGHTING OR DISTRIBUTION PANEL		LED LUMINAIRE - SURFACE
	RECESSED TERMINAL CABINET WITH 3/4" PLYWOOD BACKBOARD, DUPLEX RECEPTACLE & #6 CU GND, UNO.		LED LUMINAIRE - SUSPENDED
	SURFACE MOUNTED TERMINAL CABINET WITH 3/4" PLYWOOD BACKBOARD, DUPLEX RECEPTACLE & #6 CU GND, UNO.		LED STRIP LIGHT - SURFACE OR SUSPENDED
	DISTRIBUTION TRANSFORMER, MOUNTING AND SIZE AS NOTED		DOWNLIGHT LUMINAIRE - RECESSED
	NON-FUSED DISCONNECT SWITCH		WALLWASH LUMINAIRE - RECESSED
	ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH		LUMINAIRE - SURFACE
	FUSED DISCONNECT SWITCH; SIZE DISCONNECT AND FUSES PER UNIT LABEL		LUMINAIRE - WALL
	NON-FUSED / FUSED DISCONNECT; SEE DISCONNECT SWITCH SCHEDULE		LUMINAIRE - PENDANT
	MOTOR STARTER/CONTROLLER		TRACK LIGHT - SUSPENDED OR SURFACE MOUNTED
	COMBINATION CIRCUIT BREAKER DISCONNECT/MOTOR STARTER.		CONTINUOUS LINEAR LED TAPE OR LED COVE LIGHT
	COMBINATION FUSIBLE DISCONNECT/MOTOR CONTROLLER; PROVIDE FUSES PER MANUFACTURER'S REQUIREMENTS. N.F. INDICATES NON-FUSED.		HATCHED LUMINAIRE INDICATES AN EMERGENCY LUMINAIRE CONNECTED TO A EMERGENCY POWER DISTRIBUTION SYSTEM, OR INTEGRAL EMERGENCY BATTERY BACKUP.
	POWER POINT OF CONNECTION		SINGLE FACE EXIT SIGN. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATION.
	DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.		DOUBLE FACE EXIT SIGN. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATION.
	DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.		DIRECTIONAL ARROW AS INDICATED ON PLANS. (CEILING OR WALL)
	DUPLEX RECEPTACLE OUTLET 20A, 125V, WITH "LC" LOCKING COVER @ +16" TO BOTTOM OF BOX, UNO.		COMBINATION EMERGENCY EXIT SIGN WITH DUAL HEAD LIGHTS WITH EMERGENCY BATTERY BACK-UP.
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP AND/OR SINK BACKSPLASH. [1]		BATTERY POWERED EMERGENCY EGRESS LUMINAIRE - SURFACE MOUNTED
	ISOLATED GROUND DUPLEX RECEPTACLE, 20A, 125V @ +16" TO BOTTOM OF BOX, UNO.		SPOT/FLOOD LUMINAIRE - GROUND MOUNTED. FOR BLDG WALL MOUNTED AS WELL.
	DEDICATED DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.		EXTERIOR POLE FIXTURE - SINGLE HEAD
	GFCI DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.		EXTERIOR POLE FIXTURE - TWIN HEAD
	GFCI DUPLEX RECEPTACLE OUTLET 20A, 125V, WITH "LC" LOCKING COVER @ +16" TO BOTTOM OF BOX, UNO.		EXTERIOR PATHWAY POST TOP POLE FIXTURE
	GFCI DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP AND/OR SINK BACKSPLASH.[1]		BOLLARD FIXTURE
	ISOLATED GROUND GFCI DUPLEX RECEPTACLE 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.		STEP LUMINAIRE
	DEDICATED GFCI DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.	LIGHTING CONTROLS	
	DOUBLE DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.		SINGLE POLE TOGGLE SWITCH, 20A, 120-277V @ +46" TO TOP OF BOX, UNO.
	DOUBLE DUPLEX MOUNTED ABOVE COUNTER TOP AND/OR SINK BACKSPLASH. [1]		THREE WAY TOGGLE SWITCH 20A,120-277V @ +46" TO TOP OF BOX, UNO.
	ISOLATED GROUNDED DOUBLE DUPLEX RECEPTACLE 20A, 125V @ +16" TO BOTTOM OF BOX, UNO.		SUBSCRIPTS "a,b,c" DESIGNATE THE QUANTITY OF SWITCHES AT EACH LOCATION (TYPICAL FOR ALL SWITCH TYPES).
	DEDICATED DOUBLE DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.		SINGLE POLE KEYED BARREL SWITCH 20A, 120-277 @ +46" TO TOP OF BOX, UNO.
	CONTROLLED/UNCONTROLLED DOUBLE DUPLEX RECEPTACLE		PUSH BUTTON
	GFCI DOUBLE DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.		WALL DIMMER SEE CONTROL DRAWINGS FOR TYPE.
	GFCI DOUBLE DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP AND/OR SINK BACKSPLASH. [1]		DIGITAL WALL CONTROL OVERRIDE SWITCH. RUN CABLING BACK TO LIGHTING CONTROL PANEL
	ISOLATED GROUND GFCI DOUBLE DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.		OCCUPANCY SENSOR. SEE OCCUPANCY SENSOR & CONTROL SCHEDULE AND CONTROL DRAWINGS FOR TYPE.
	DEDICATED GFCI DOUBLE DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.		CORNER MOUNT MOTION SENSOR. DUAL TECHNOLOGY, PIR OR ULTRASONIC. SEE OCCUPANCY SENSOR & CONTROL SCHEDULE AND CONTROL DRAWING FOR TYPE.
	SPECIAL RECEPTACLE OUTLET, SIZE AND NEMA CONFIGURATION AS NOTED, MOUNTED @ +16" TO BOTTOM OF BOX, UNO.		PHOTOCONTROL DAYLIGHT SENSOR. SEE OCCUPANCY SENSOR & CONTROL SCHEDULE AND CONTROL DRAWINGS FOR TYPE.
	FLOOR MOUNTED DUPLEX RECEPTACLE, 20A, 125V FLUSH IN FINISHED FLOOR	TAGS	
	FLOOR MOUNTED DOUBLE DUPLEX RECEPTACLE, 20A, 125V FLUSH IN FINISHED FLOOR		KEYNOTE SHOWN ON SAME SHEET
	CEILING MOUNTED DUPLEX RECEPTACLE, 20A, 125V		LIGHT FIXTURE TAG: FIXTURE TAG - "XX" - CIRCUIT NUMBER PANEL - "XX-Xx" - SWITCH LEG
	CEILING MOUNTED DOUBLE DUPLEX RECEPTACLE, 20A, 125V		FEEDER DESIGNATION TAG
	THERMAL OVERLOAD SWITCH		FOOD SERVICE EQUIPMENT DESIGNATION TAG
	MOTOR RATED SWITCH		DETAIL DESIGNATION: TOP LETTER INDICATES DETAIL, BOTTOM LETTER/NUMBER INDICATES SHEET
	WALL MOUNTED JUNCTION BOX - SIZE AS REQUIRED BY CODE.		MECHANICAL EQUIPMENT I.D. TAG - MP&S
	CEILING MOUNTED JUNCTION BOX - SIZE AS REQUIRED BY CODE.	ONE LINE DIAGRAM	
	FLOOR MOUNTED JUNCTION BOX - SIZE AS REQUIRED BY CODE.		PANEL IDENTIFICATION
	PLUGMOLD		CIRCUIT BREAKER
	POWER POLE		FUSED SWITCH
	FLOOR MOUNTED COMBO DUPLEX RECEPTACLE / TELEPHONE/DATA		GROUND FAULT CIRCUIT INTERRUPTER
	FLOOR MOUNTED COMBO DUPLEX RECEPTACLE / TELEPHONE/DATA		GROUND
	PRODUCTION LIGHTING DEVICE		UNDERGROUND TERMINATION SERVICE LUG
	ELECTRIC VEHICLE CHARGING STATION, DUAL PORT & SINGLE PORT		UTILITY METER WITH CURRENT TRANSFORMER COMPARTMENT METER SOCKET
CIRCUITS			CUSTOMER-OWNED MULTIFUNCTION METER WITH CURRENT TRANSFORMERS
	STUB		MOTOR
	CONTINUATION		TRANSFORMER WITH GROUND
	CONDUIT RISER - UP		UFER GROUND
	CONDUIT DROP - DOWN		BOND TO COLD WATER PIPE, GAS PIPE, BUILDING STEEL
	CONDUIT CONCEALED IN CEILING OR WALL.		AUTOMATIC TRANSFER SWITCH
	CONDUIT CONCEALED IN UNDERFLOOR OR UNDERGROUND		NEUTRAL LINK
	EXISTING CONDUIT TO REMAIN.		SURGE PROTECTIVE DEVICE
	CONDUIT & CONDUCTORS FOR LOW VOLTAGE MOTION SENSORS		
	EXISTING CONDUIT & CONDUCTORS TO REMAIN FOR LOW VOLTAGE MOTION SENSORS		
	EXISTING CONDUIT AND/OR CONDUCTORS TO BE REMOVED. UNDERGROUND CONDUIT MAY BE ABANDONED IN PLACE.		
	HOMERUN TO PANELBOARD OR TERMINAL CABINET WITH CONDUCTORS AS NOTED		
	CIRCUIT CONDUCTORS: LONG TICK INDICATES NEUTRAL CONDUCTOR; SHORT TICKS INDICATE PHASE CONDUCTORS; CURVED TICK INDICATES EQUIPMENT GROUNDING CONDUCTOR; ADDITIONAL CURVED TICK INDICATES ISOLATED GROUNDING CONDUCTOR. NUMBER BY TICKS INDICATE WIRE GAUGE OTHER THAN 12 AWG CU. NO TICKS INDICATE 2#12 CU, 1#12 CU GND, IN 1/2" CONDUIT. OTHERS AS NOTED ON PLAN. NOTE: PROVIDE A CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS FOR THIS PROJECT, WHETHER SHOWN ON PLAN OR NOT.		
	FLEXIBLE CONDUIT, 6'-0" LONG MAX. WITH #12 CU GROUND, UNO.		
LEADERS			
	BRACKET		
	LEADERS		

FOOTNOTE:
 [1] PROVIDE 44" MAX. TO TOP OF BOX AT AREAS WITH FORWARD ACCESSIBLE APPROACH KNEE CLEARANCE, OR PROVIDE 46" MAX. TO TOP OF BOX AT AREAS WITH PARALLEL ACCESSIBLE APPROACH (PER CBC 11B-308).

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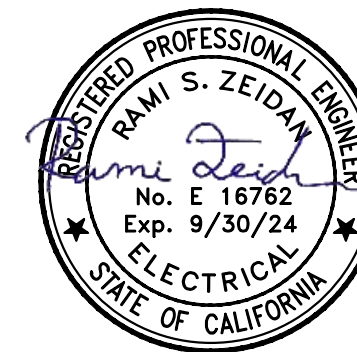
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SEAL



PROJECT
**JOHN F KENNEDY HIGH SCHOOL
 SWIMMING POOL UPGRADE**

6715 GLORIA DR
 SACRAMENTO, CA 95831

CLIENT
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION

MANAGEMENT	
LIONAKIS PROJECT NO.	022363
CLIENT PROJECT NO.	N/A
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TITLE
**ELECTRICAL
 SYMBOL LEGEND**

SHEET
E002

0.14" = 1'-0"

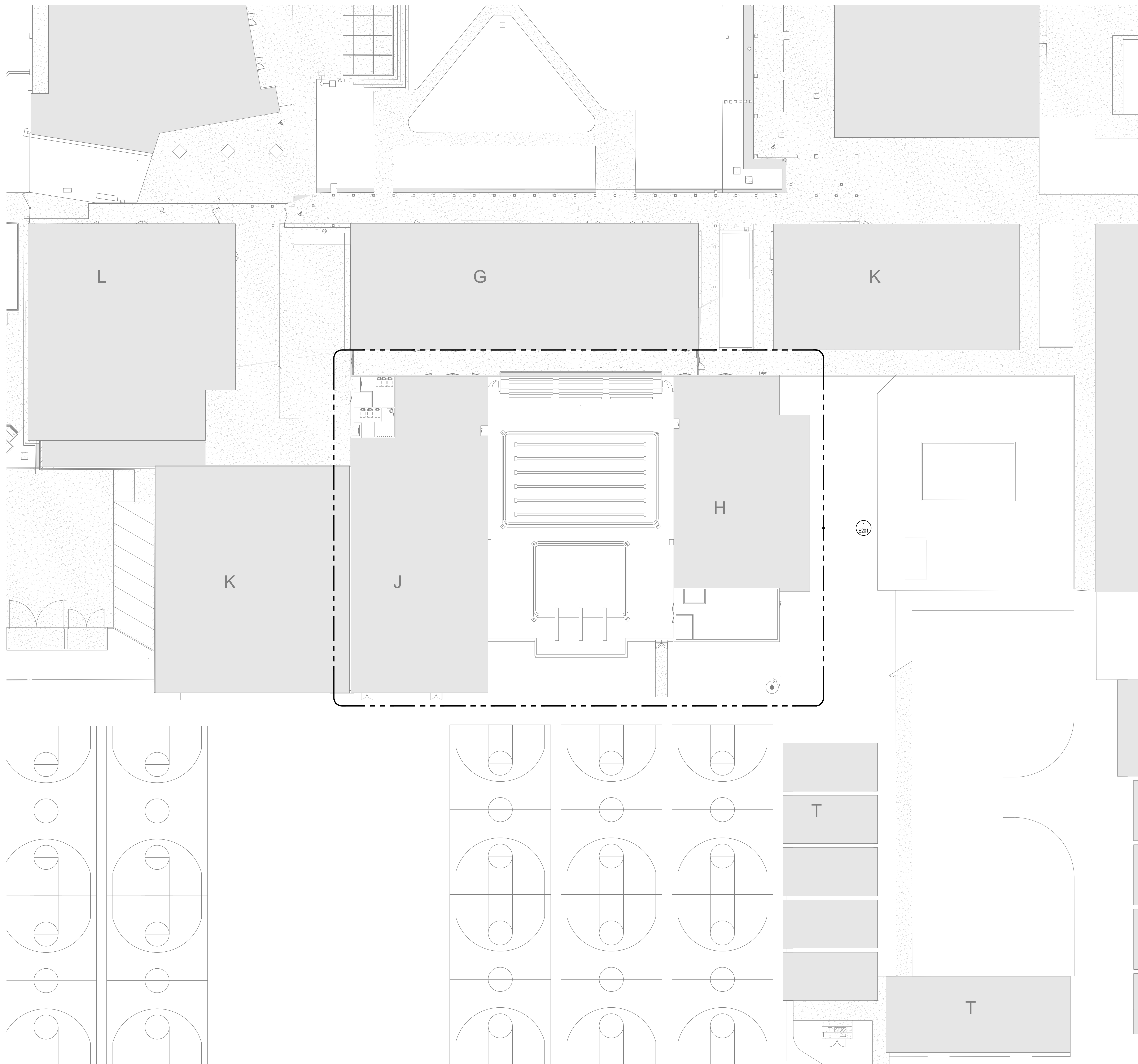
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1 ELECTRICAL SITE PLAN
SCALE 1" = 20'-0"

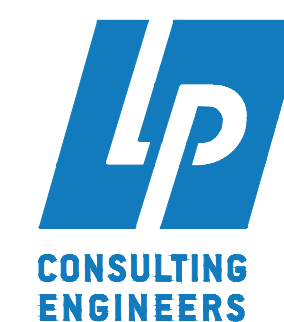


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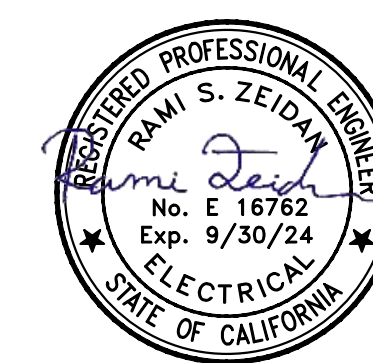


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SEAL



PROJECT
**JOHN F KENNEDY HIGH SCHOOL
SWIMMING POOL UPGRADE**

6715 GLORIA DR
SACRAMENTO, CA 95831

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

ISSUED

MARK	DATE	DESCRIPTION

MANAGEMENT

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CLIENT PROJECT NO:	N/A
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TITLE

**ELECTRICAL
SITE PLAN**

SHEET

E101

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SEAL



PROJECT
**JOHN F KENNEDY HIGH SCHOOL
SWIMMING POOL UPGRADE**

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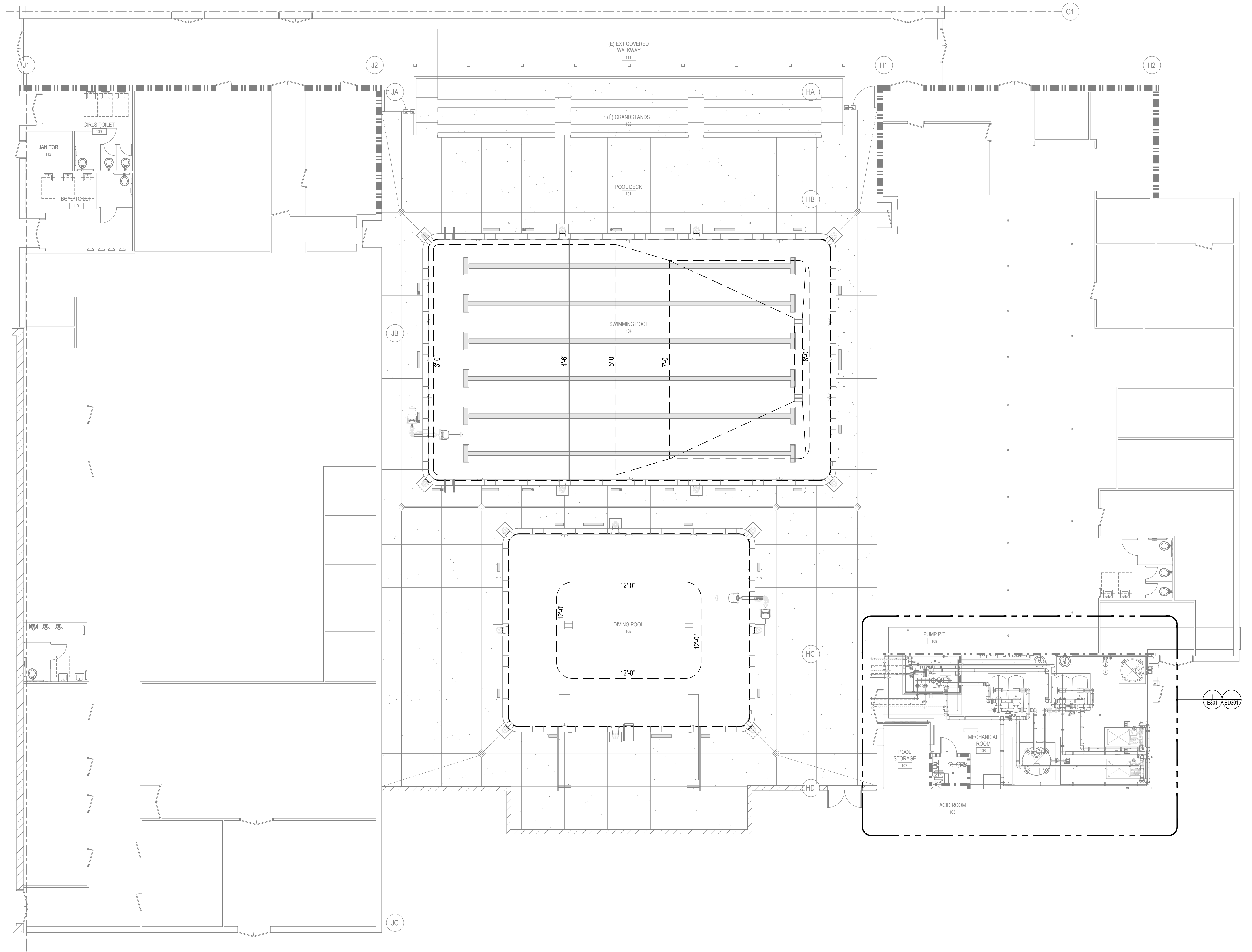
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MANAGEMENT	
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TITLE
POWER FLOOR PLAN

SHEET
E201



1 POWER FLOOR PLAN
SCALE: 1/8" = 1'-0"

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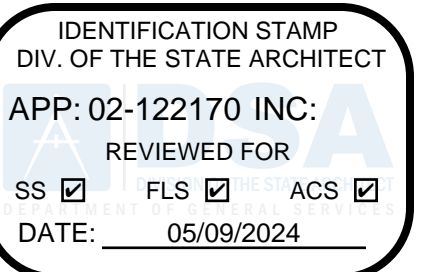
1/20/2023 8:16:07 AM Autodesk Docs: 020264-SCUSD-IPHS Pool Upgrade020264_ARCHMSTR_SOL_CENTRAL.rvt

GENERAL NOTES

- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.
- B. PATCH, REPAIR, AND FINISH AS NECESSARY FOR ANY DAMAGES DURING DEMOLITION AND INSTALL.
- C. REFER TO ARCHITECTURAL, AQUATIC, MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- D. PROVIDE PVC OR STAINLESS STEEL J-BOXES, CONDUITS AND FITTINGS IN ALL CHEMICAL STORAGE ROOMS.

KEY NOTES

- ① (E) ELECTRICAL PANEL TO REMAIN.
- ② (E) 45 KVA, 480V/208V, 3 PHASE TRANSFORMER TO REMAIN. PROTECT THE EQUIPMENT AND ASSOCIATED FEEDERS DURING CONSTRUCTION WORK.
- ③ (E) LIGHTING CONTROLS TO REMAIN. PROTECT DURING CONSTRUCTION WORK.
- ④ (E) POOL PUMPS TO BE DEMOLISHED, DEMOLISH AND REMOVE ALL ASSOCIATED CONTROLS, CONDUITS AND WIRING.
- ⑤ (E) PUMPS CONTROLS TO BE DEMOLISHED, DEMOLISH AND REMOVE ALL ASSOCIATED CONDUITS AND WIRING.
- ⑥ DEMO WATER TANK CONTROL, DEMOLISH AND REMOVE ALL ASSOCIATED CONTROLS, PUMPS, CONDUITS AND WIRING.
- ⑦ DEMO GAS BOILER, DEMOLISH AND REMOVE ALL ASSOCIATED, PUMPS, CONTROLS, CONDUITS AND WIRING.
- ⑧ CONTRACTOR SHALL PROTECT ALL EXISTING POWER AND LIGHTING CIRCUITS FOR OTHER BUILDINGS, STRUCTURES AND ROOMS WHICH ARE FED FROM (E) PANEL "HH" AND "LH" AND ARE NOT PART OF POOL EQUIPMENT ROOM DEMO WORK. DEMOLISH AND REMOVE ALL UNUSED/ABANDONED ELECTRICAL CONDUITS, WIRES, J-BOXES AND DEVICES IN THE POOL EQUIPMENT ROOM. REFER TO ARCHITECTURAL, AQUATIC, MECHANICAL AND PLUMBING DRAWINGS FOR MORE INFO REGARDING DEMO WORK.
- ⑨ DEMO BOOSTER HOT WATER HEATER, REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.



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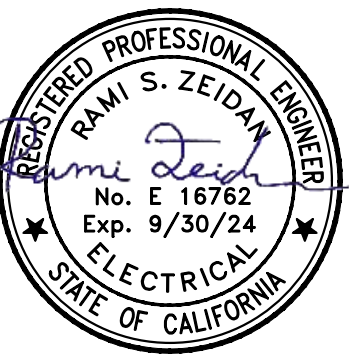


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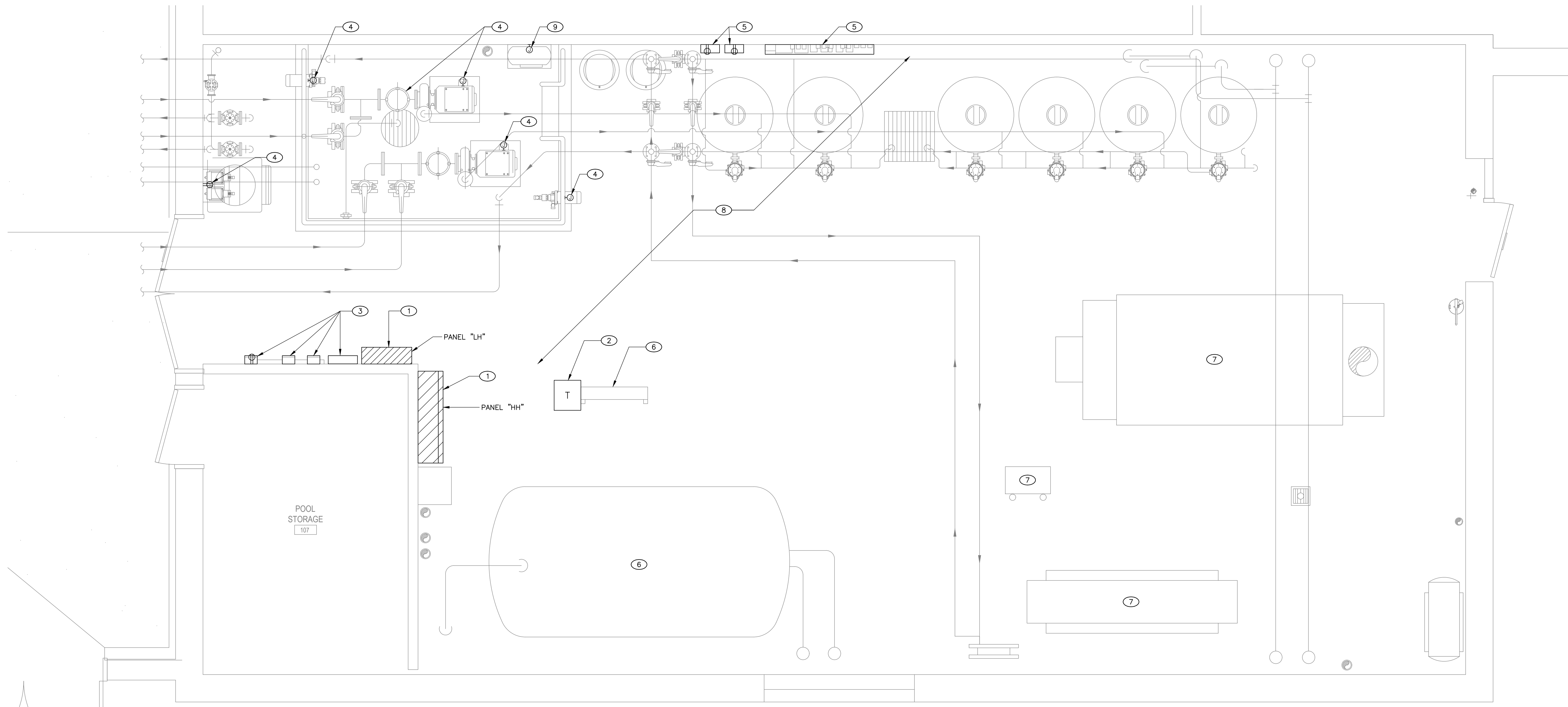
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TITLE
**DEMO POWER FLOOR
ENLARGED PLAN**

SHEET
ED301



1 DEMO POWER FLOOR ENLARGED PLAN
SCALE: 1/2" = 1'-0"

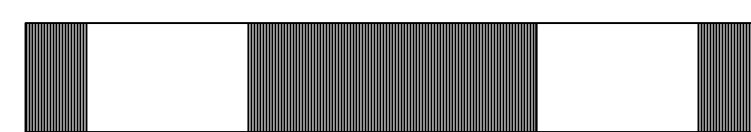
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WALL LEGEND



(E) 2-HR FIRE RATED WALL.
SEE KEY NOTE 15/E301



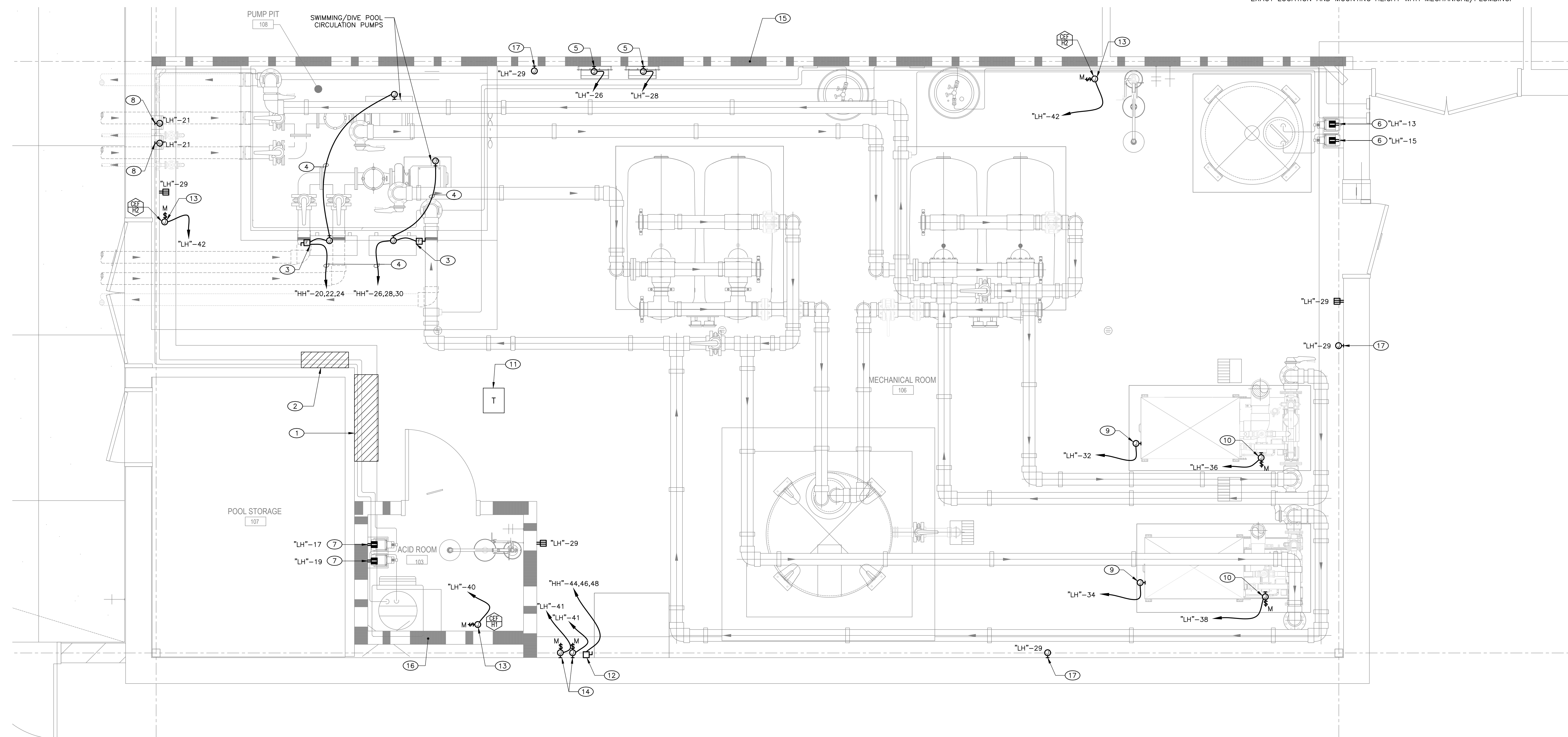
1-HR FIRE RATED WALL.
SEE KEY NOTE 16/E301

GENERAL NOTES

- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.
- B. COORDINATE THE EXACT LOCATION OF EQUIPMENT AND SYSTEMS WITH AQUATIC DRAWINGS. SEE AQUATIC DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- C. REFER TO ARCHITECTURAL, AQUATIC, MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- D. PROVIDE ALL GROUNDING AND BONDING CONNECTION FOR AQUATIC EQUIPMENTS AND SYSTEMS. SEE AQUATIC DRAWINGS FOR MORE INFORMATION.
- E. RECONNECT THE SWIMMING / DIVING POOLS' UNDERWATER LIGHT CIRCUITS AND CONTROLS WHEN THE LIGHTS ARE BEING REPLACED. USE THE EXISTING CIRCUITS AND CONTROLS. REPLACE ANY BROKEN, NONFUNCTIONING CONDUITS, WIRE, J-BOX AND CONTROLS. SEE AQUATIC DRAWINGS FOR REQUIREMENTS.

KEY NOTES

- 1 (E) PANEL "HH".
- 2 (E) PANEL "LH".
- 3 SWIMMING POOL / DIVING POOL CIRCULATION PUMP(S): 460V, 3PH, 15HP. CONTROL PANEL AND VFD; PROVIDE POWER CONNECTION AS SHOWN. PROVIDE INTERCONNECTION BETWEEN CONTROLLER AND PUMP AS A COMPLETE AND OPERABLE SYSTEMS. PROVIDE 60AS/40AF/3P FUSIBLE DISCONNECT SWITCH MOUNT THE DISCONNECT ON EXISTING GUARDRAIL SEE DETAIL 2/SP-508.
- 4 1" C-3#8 CU + 1#10 CU GND.
- 5 SWIMMING POOL / DIVING POOL WATER CHEMISTRY CONTROLLER; PROVIDE 120V, 20A POWER CONNECTION. COORDINATE THE EXACT LOCATION AND MOUNTING HEIGHT WITH AQUATIC DRAWINGS. PROVIDE ALL CONTROL CONNECTION AS A COMPLETE AND OPERABLE SYSTEM. PROVIDE 1" C-2#8 CU + 1#10 CU GND. FOR CIRCUIT.
- 6 CHLORINE FEED PUMP(S): 120V, 1/30HP. PROVIDE NEMA 5-15 RECEPTACLE PER MANUFACTURER. PROVIDE ALL CONTROLS CONNECTION AS A COMPLETE AND OPERABLE SYSTEM. SEE AQUATIC DRAWINGS FOR MORE INFO.
- 7 ACID FEED PUMP(S): 120V, 1/30HP. PROVIDE NEMA 5-15 RECEPTACLE PER MANUFACTURER. PROVIDE ALL CONTROLS CONNECTION AS A COMPLETE AND OPERABLE SYSTEM. SEE AQUATIC DRAWINGS FOR MORE INFO.
- 8 SWIMMING POOL / DIVING POOL WATER FILL SYSTEM(S): PROVIDE 120V, 20A. POWER CONNECTION. PROVIDE ALL CONTROL CONNECTIONS AS A COMPLETE AND OPERABLE SYSTEM. SEE AQUATIC DRAWINGS FOR MORE INFO.
- 9 SWIMMING POOL / DIVING POOL HEATERS(S): PROVIDE 120V, 20A POWER CONNECTION. PROVIDE ALL CONTROLS CONNECTION AS COMPLETE AND OPERABLE SYSTEM. SEE AQUATIC DRAWINGS FOR EXACT LOCATION, MOUNTING HEIGHT AND REQUIREMENTS.
- 10 POOL HEATER PUMP, PROVIDE 120V, 20A POWER CONNECTION. PROVIDE MOTOR RATED DISCONNECT. COORDINATE THE EXACT LOCATION AND MOUNTING HEIGHT WITH EQUIPMENT INSTALLER. SEE AQUATIC DRAWINGS FOR MORE INFO.
- 11 (E) 45 KVA, 480V/208V, 3 PHASE TRANSFORMER.
- 12 ELECTRIC WATER HEATER 45KW, 480V, 3-PHASE, PROVIDE POWER CONNECTION AS SHOWN. PROVIDE 70A DISCONNECT. COORDINATED THE EXACT LOCATION ON SITE. SEE PLUMBING DRAWINGS FOR MORE INFO.
- 13 CEILING EXHAUST FAN, PROVIDE 120V, 20A POWER CONNECTION. PROVIDE MOTOR RATED SWITCH. COORDINATE THE EXACT LOCATION ON SITE WITH THE EQUIPMENT INSTALLER. SEE PLUMBING DRAWINGS FOR CONTROLS AND ADDITIONAL INFO. LOCATE DISCONNECT SWITCH IN ACCESSIBLE AREA AND IN LINE OF VIEW.
- 14 CIRCULATION PUMP 55W, 115V, PROVIDE 120V, 20A POWER CONNECTION. PROVIDE MOTOR RATED DISCONNECT. COORDINATE THE EXACT LOCATION AND MOUNTING HEIGHT ON SITE WITH EQUIPMENT INSTALLER. SEE PLUMBING DRAWING FOR MORE INFO. LOCATE DISCONNECT SWITCH IN ACCESSIBLE AREA AND IN LINE OF VIEW.
- 15 (E) 2-HR RATED WALL. SEE DETAIL 1 AND 2 ON SHEET E601 FOR CONDUIT AND BOX INSTALLATION THROUGH AND IN THE RATED WALL. SEE ARCHITECTURAL DRAWINGS FOR WALL TYPE.
- 16 1-HR RATED WALL. SEE DETAIL 1 AND 2 ON SHEET E601 FOR CONDUIT AND BOX INSTALLATION THROUGH AND IN THE RATED WALL. SEE ARCHITECTURAL DRAWINGS FOR WALL TYPE.
- 17 PROVIDE 120V, 20A POWER CONNECTION TO TRAP PRIMER TP-2. COORDINATE THE EXACT LOCATION AND MOUNTING HEIGHT WITH MECHANICAL/PLUMBING.



1 POWER FLOOR ENLARGED PLAN

SCALE: 1/2" = 1'-0"

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PROJECT
**JOHN F KENNEDY HIGH SCHOOL
SWIMMING POOL UPGRADE**

6715 GLORIA DR
SACRAMENTO, CA 95831

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION

MANAGEMENT	
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TITLE
**POWER FLOOR
ENLARGED PLAN**

SHEET

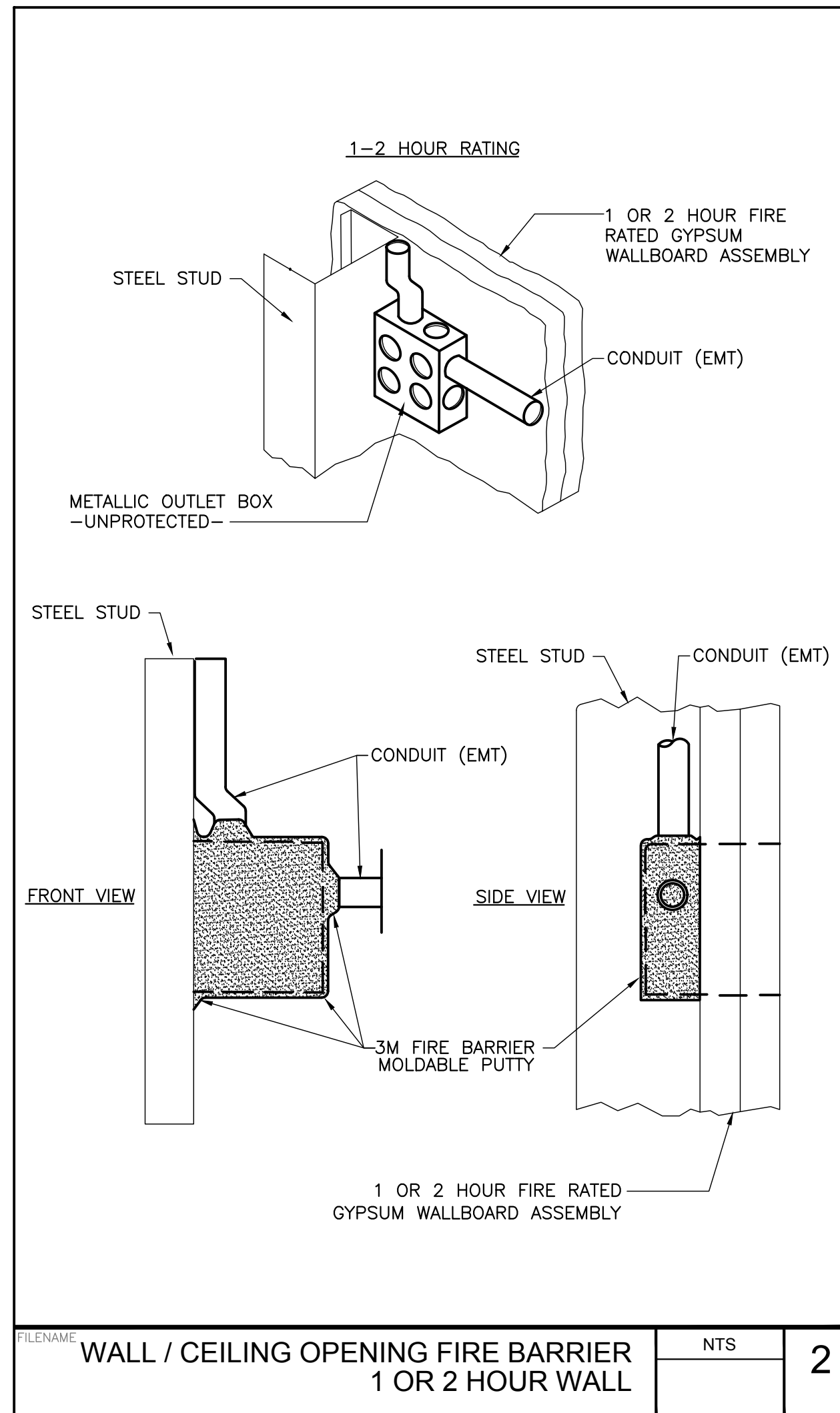
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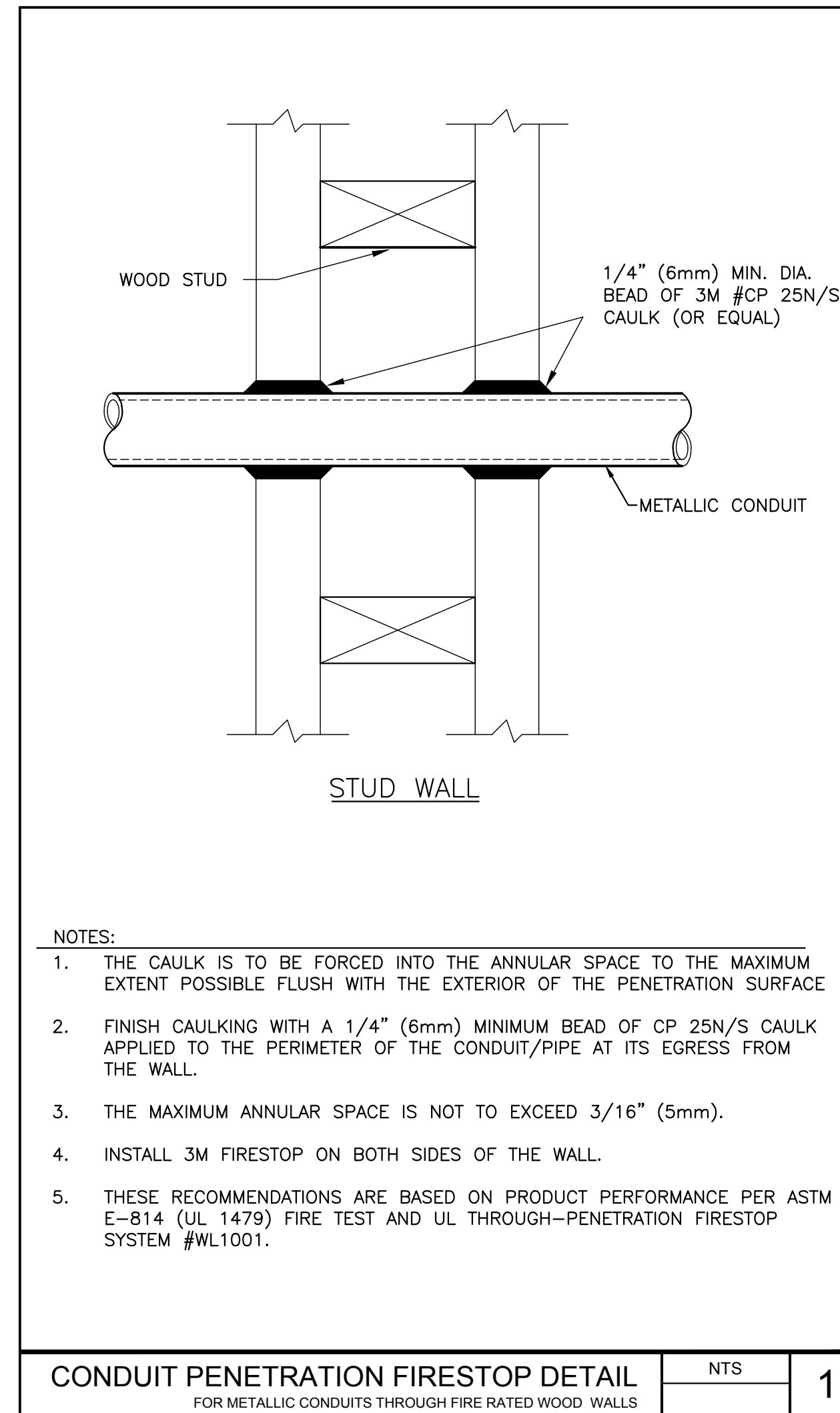
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B

Autodesk Docs: 022324_SCHSD - JFHHS Pool Upgrade\022324_SCHSD\MSTR_SCH_CENTRAL.rvt 1/23/2023 8:16:07 AM



FILENAME: WALL / CEILING OPENING FIRE BARRIER 1 OR 2 HOUR WALL NTS 2



CONDUIT PENETRATION FIRESTOP DETAIL FOR METALLIC CONDUITS THROUGH FIRE RATED WOOD WALLS NTS 1

277/480 Volt, 3 Phase, 4 Wire
350 Amp BUS CU.
350 Amp MCB
Amp MLO

EXISTING KAIC Rating
SURFACE Mounted
NEMA 1 Type

CKT	BKR	DESCRIPTION	PHASE SUMMARY (WATTS)			DESCRIPTION	BKR	CKT
			A	B	C			
1	(E)20/1	SPARE						
3	(E)20/1	(E)GIRLS LOCKER ROOM	1,600					
5	(E)20/1	(E)GIRLS LOCKER ROOM		1,600				
7	(E)20/1	SPARE						
9	(E)20/1	SPARE						
11	(E)20/1	SPARE						
13	(E)50/3	(E)CMS 35	7,918					
15	-	-		7,918				
17	-	-			7,918			
19	(E)50/3	(E)PMP#36	7,918			5,820		(N) SWIMMING POOL PUMP
21	-	-		7,918			5,820	
23	-	-			7,918		5,820	(N) DIVE POOL PUMP
25	(E)15/3	(E)PMP#5	2,375					
27	-	-		2,375				
29	-	-			2,375			
31	(E)15/3	(E)PMP#2	2,375			2,375		(E)PMP#1
33	-	-		2,375			2,375	
35	-	-			2,375		2,375	
37	(E)15/3	(E)PMP#3	2,375			2,375		(E)PUMP
39	-	-		2,375			2,375	
41	-	-			2,375		2,375	
43	(E)30/3	(E)LIGHT SUBTIED TO ABOVE				15,000		(N) ELECTRIC WATER HEATER
45	-	-					15,000	
47	-	-					15,000	
49	(E)100/3	(E)PANEL "LH"	23,333			15,000		(E)BOOSTER HOT WATER HEATER
51	-	-		23,333			15,000	
53	-	-			23,333			
55	PFB	SPACE						SPACE
57	-	-						
59	-	-						
PHASE TOTALS			A	B	C			
			94,204	95,884	95,884			

PANEL AND CIRCUIT BREAKER NOTES:
[1] PROVIDE NEW CIRCUIT BREAKER. MATCH THE EXISTING AIC RATING.
[2]

DEMAND LOADS		
LIGHTING / CONTINUOUS LOAD x 125%	6,000	Watts
RECEPTACLES / OTHER x 100%	281,252	Watts
LARGEST MOTOR x 25%	1,980	Watts
TOTAL DEMAND LOADS	289,232	Watts
TOTAL DEMAND AMPS	348	AMPS

120/208 Volt, 3 Phase, 4 Wire
225 Amp BUS CU.
225 Amp MCB
Amp MLO

EXISTING KAIC Rating
SURFACE Mounted
NEMA 1 Type

CKT	BKR	DESCRIPTION	PHASE SUMMARY (WATTS)			DESCRIPTION	BKR	CKT
			A	B	C			
1	(E)20/1	(E) NIGHT LIGHTING	1,500					
3	(E)20/1	(E) NIGHT LIGHTING		1,500				
5	(E)20/1	(E) EXHAUST FAN			1,080			
7	(E)20/1	(E) RECEPT	1,080					
9	(E)20/1	(E) EXHAUST FAN		1,500				
11	(E)20/1	(E) COMPRESSOR			1,900			
13	(E)20/1	(E) EXISTING LOAD	1,600	1,371				
15	(E)20/1	(E) EXISTING LOAD		1,600				
17	(E)20/1	(E) EXISTING LOAD			1,600			
19	(E)20/1	(E) EXISTING LOAD	1,600			1,380		
21	(E)20/1	(E) EXISTING LOAD		1,600			1,380	(E) JORO PUMP TOCKER RM
23	(E)20/1	(E) GIRLS LOCKER RM SPA TUB					800	(N) CHEMISTRY CONTROLLER
25	(E)20/1	(E) PUMP BOLLER PUMP	1,371				800	(N) CHEMISTRY CONTROLLER
27	(E)20/1	(E) VACUUM PUMP		1,371			1,080	(E) RECEPT
29	(E)20/1	(N) RECEPT, TP-2			568			(E) HOT WATER CONTROLLER
31	[1]20/1	(N) CHLORINE FEED PUMP	860			1,000		(N) POOL HEATER CONTROL
33	[1]20/1	(N) CHLORINE FEED PUMP		860			1,000	(N) POOL HEATER CONTROL
35	[1]20/1	(N) ACID FEED PUMP			860		1,658	(N) POOL HEATER PUMP
37	[1]20/1	(N) ACID FEED PUMP	860			1,658		(N) POOL HEATER PUMP
39	[1]20/1	(N) POOL WATER FILL SYSTEM		500		1,080		(N) EXHAUST FAN CEF-1
41	[1]20/1	(N) CIRCULATION PUMP			110		600	(N) EXHAUST FAN CEF-2
43	(E)70/3	FEED TOP SECTION "LH"				1,441		(E) LOAD
45	-	-					1,441	(E) LOAD
47	-	-					1,441	(E) LOAD
49	(E)20/3	(E) LOAD	1,921			1,441		(E) LOAD
51	-	(E) LOAD		1,921			1,441	(E) LOAD
53	-	(E) LOAD			1,921		1,441	(E) LOAD
PHASE TOTALS			A	B	C			
			22,372	22,834	19,830			

PANEL AND CIRCUIT BREAKER NOTES:
[1] PROVIDE NEW CIRCUIT BREAKER. MATCH EXISTING AIC RATING.
[2]

DEMAND LOADS		
LIGHTING / CONTINUOUS LOAD x 125%	14,329	Watts
RECEPTACLES / OTHER x 100%	53,573	Watts
LARGEST MOTOR x 25%	415	Watts
TOTAL DEMAND LOADS	68,316	Watts
TOTAL DEMAND AMPS	190	AMPS

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p 916-771-0778
www.lpenginers.com
Job #: 23-2283

SEAL

PROJECT
**JOHN F KENNEDY HIGH SCHOOL
SWIMMING POOL UPGRADE**
6715 GLORIA DR
SACRAMENTO, CA 95831

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

ISSUED
MARK DATE DESCRIPTION

MANAGEMENT
LIONAKIS PROJECT NO: 022323
CLIENT PROJECT NO: N/A
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TITLE
**ELECTRICAL
SCHEDULES AND DETAILS**

SHEET
E601

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1

SWIMMING POOL DATA

SURFACE AREA	=	3,375 SQ. FT.
PERIMETER	=	236 FT.
DEPTHS	=	3'-0" TO 8'-0"
VOLUME	=	146,715 GAL.
6 HR TURNOVER	=	407 GPM

DIVING POOL DATA

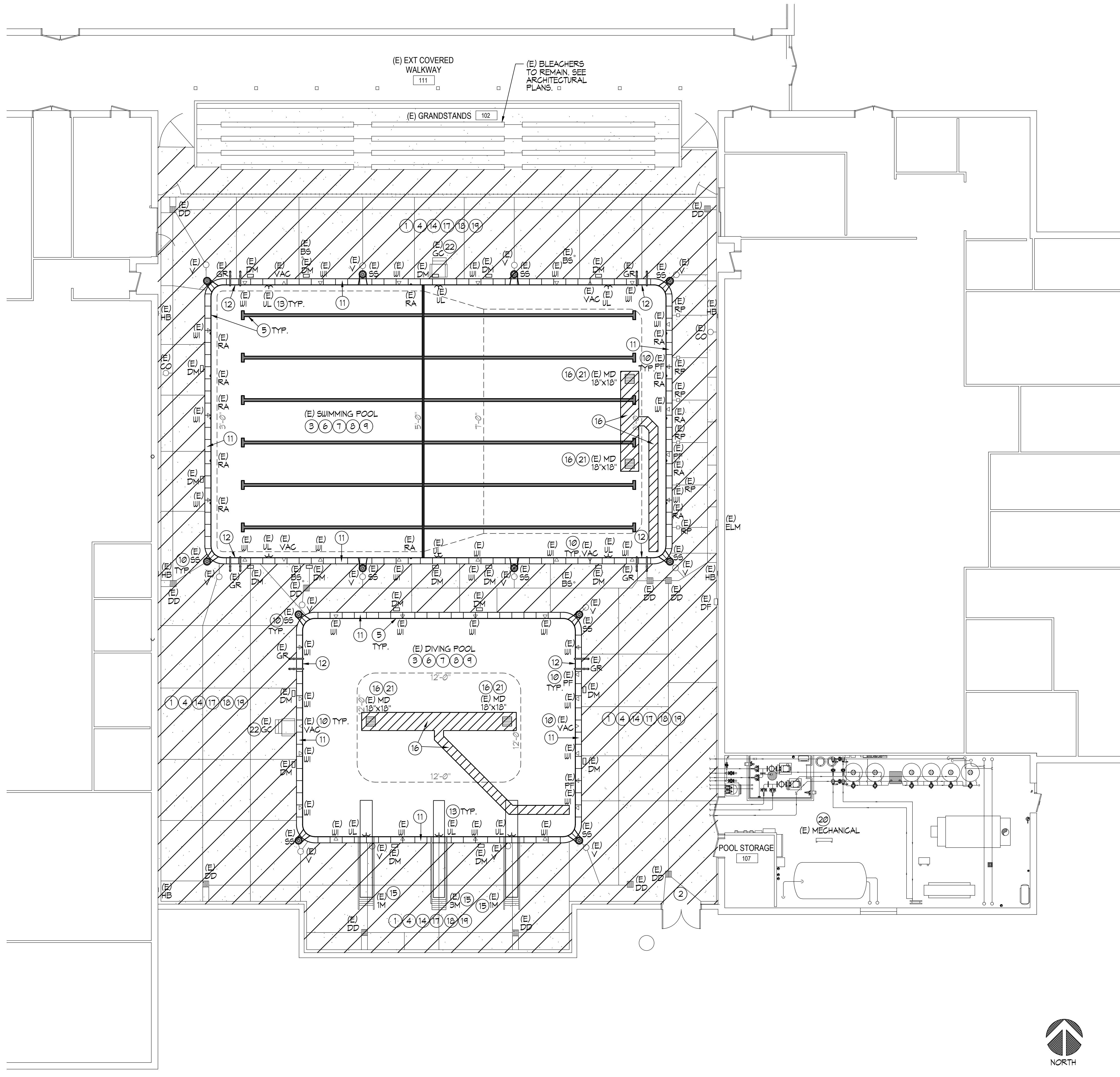
SURFACE AREA	=	1,616 SQ. FT.
PERIMETER	=	159 FT.
DEPTHS	=	12'-0"
VOLUME	=	145,052 GAL.
6 HR TURNOVER	=	403 GPM

LEGEND

MD	=	MAIN DRAIN	DD	=	DECK DRAIN
SS	=	SURFACE SKIMMER	CO	=	CLEAN-OUT
DM	=	DEPTH MARKER	V	=	VALVE
GR	=	GRABRAIL	HB	=	HOSE BIB
WI	=	WALL INLET	ELM	=	ELECTRIC METER
RA	=	ROPE ANCHOR	(E)	=	EXISTING
UL	=	UNDERWATER LIGHT			
RP	=	RACING PLATFORM			
1M	=	ONE METER DIVE STAND		=	LIMITS OF POOL DECK REMOVAL
3M	=	THREE METER DIVE STAND		=	LIMITS OF POOL FLOOR REMOVAL AS NOTED ON PLANS
VAC	=	VACUUM			
PF	=	POOL FILL			

DEMOLITION/CONSTRUCTION NOTES

- THE CONTRACTOR SHALL COORDINATE DEMOLITION WITH OTHER TRADES AND SHALL PROTECT ALL EXISTING WORK, BUILDINGS, UTILITIES, ETC. TO REMAIN AS REQUIRED FOR RENOVATION OF SWIMMING POOL.
- COORDINATE INGRESS/EGRESS AND HAUL ROUTES WITH THE OWNER PRIOR TO START OF WORK.
- POOL PLAN VIEWS AND SECTIONS ARE SHOWN FOR CONTRACTOR INFORMATION AND ASSISTANCE. THE CONTRACTOR IS RESPONSIBLE FOR INDIVIDUAL SQUARE FOOTAGE TAKE-OFFS AND ESTIMATIONS WITH REGARD TO DEMOLITION, PREPARATION, AS WELL AS MEANS AND METHODS OF CONSTRUCTION. CONTRACTOR SHALL VISIT THE SITE AS REQUIRED TO ACCOMPLISH THE WORK, AND TO BECOME FAMILIAR WITH SCOPE AND SERVICES OF WORK REQUIRED.
- COORDINATE PROPOSED CONTRACTOR STAGING AREA WITH THE OWNER PRIOR TO CONSTRUCTION. PROVIDE TEMPORARY PHONE, TOILET(S), FENCING, GATES, ETC. AS REQUIRED.
- REMOVE EXISTING WATERLINE TILE, SWIMMING POOL LANE LINES AND END WALL TARGET TILE, POOL COPING AND PLASTER FINISHES DOWN TO ORIGINAL SOUND CONCRETE/SHOTCRETE. ANY CRACKS SHALL BE CHIPPED OUT TO A MINIMUM TO 3/4"x3/4" AND THEN FILLED FLUSH WITH NON-SHRINK GROUT. ALL EXPOSED REBAR, RUST SPOTS, ETC. SHALL BE EXPOSED, BUSHED DOWN 1/2" BELOW FINISH SURFACE, ZINC COATED AND FILLED FLUSH WITH NON-SHRINK GROUT. OTHER IMPERFECTIONS IN THE POOL SHELL SHALL BE REPAIRED PRIOR TO INSTALLING A NEW WHITE PLASTER FINISH.
- THE CONTRACTOR SHALL INSURE THAT ALL SURFACES ARE PREPARED TO RECEIVE PLASTER FINISH. WEATHER CONDITIONS SHALL BECOME A CRITICAL PART OF WORK AND SHALL BE TAKEN INTO CONSIDERATION AT THE TIME OF PLASTER APPLICATION.
- THE CONTRACTOR SHALL PROVIDE A SUFFICIENT NUMBER OF WORKERS TO INSURE THAT THE ENTIRE POOL CAN BE PLASTERED IN A SINGLE DAY OR SHALL PROVIDE CONTINUAL MISTING OF PLASTERED SURFACES TO INSURE THAT PLASTER IS NOT EXPOSED TO THE AIR FOR A PERIOD OF TIME WHICH WOULD CAUSE DAMAGE IN ANY WAY.
- PROVIDE NEW TILE AND PLASTER FINISHES PER PLANS. REPLACE ANY DAMAGED OR LOST POOL FITTINGS AND GRATES LOST DURING DEMOLITION/CONSTRUCTION AS REQUIRED.
- THE OWNER SHALL IDENTIFY THE POOL FILL WATER SOURCE FROM CLOSEST FIRE HYDRANT AND SHALL PAY FOR THE WATER TO FILL THE POOL. THE CONTRACTOR IS RESPONSIBLE FOR FIRE HOSE, HOSES, FILLING AND PROTECTION OF PLASTER SURFACES. FILL SOURCE SHALL BE BLOW-OFF INITIALLY TO PROVIDE A CLEAN DOMESTIC WATER SOURCE. THE CONTRACTOR SHALL PROVIDE CONTINUOUS FILL UNTIL THE WATER IS AT OPERATIONAL LEVEL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING AND BALANCING OF THE POOL WATER FOR A PERIOD OF NOT LESS THAN SEVEN (7) DAYS AFTER PLASTER. THE CONTRACTOR SHALL COORDINATE HIS EFFORTS WITH OWNERS STAFF TO PROVIDE INSTRUCTION AND TRAINING IN PROPER OPERATION OF POOL IN CONJUNCTION WITH NEW PLASTER SURFACES.
- REMOVE EXISTING SURFACE SKIMMERS AND REPLACE WITH NEW PER PLANS. REMOVE EXISTING VACUUM FITTINGS AND FILL PENETRATIONS WITH HIGH STRENGTH GROUT FLUSH WITH WALL IN PREPARATION FOR NEW WHITE PLASTER FINISH.
- PROVIDE NEW POOL COPING TO MATCH NEW DECKING, COLOR/FINISH.
- REMOVE AND REPLACE ALL EXISTING GRABRAIL STEPS. ONCE STEPS ARE REMOVED ALL RUST SPOTS SHALL BE EXPOSED, BUSHED DOWN 1/2" BELOW FINISHED SURFACE, ZINC COATED AND FILLED FLUSH WITH NON-SHRINK GROUT. THEN NEW CYCLOAC STEPS SHALL BE INSTALLED FLUSH WITH NON-SHRINK GROUT.
- REMOVE AND REPLACE EXISTING POOL UNDERWATER LIGHTS AND MOUNTING RINGS AS NEEDED WITH NEW LED PER PLANS. PULL NEW CORPS THROUGH NEW CONDUITS TO NEW JUNCTION BOXES. FIELD VERIFY CORP LENGTHS PRIOR TO ORDERING. SEE UNDERWATER LIGHT PLAN, FIELD VERIFY ALL CONDITIONS.
- REMOVE EXISTING DECK EQUIPMENT AS REQUIRED PRIOR TO DEMOLITION. PROVIDE NEW DECK EQUIPMENT AND ANCHORS AND BOND TO NEW DECKING. CONTRACTOR TO FIELD VERIFY AND DOCUMENT LOCATION OF DECK EQUIPMENT ANCHORS AND INSTALL NEW ANCHORS PER NEW LAYOUT PLAN.
- REMOVE EXISTING 3M DIVE STAND AND BOARD COMPLETELY. REMOVE EXISTING 1M DIVE STANDS AND BOARDS COMPLETELY AND INSTALL NEW 1M DIVE STANDS AND BOARDS PER PLANS.
- THE CONTRACTOR SHALL SAWCUT AND REMOVE POOL FLOOR AS REQUIRED TO INSTALL NEW SWIMMING POOL AND DIVING POOL 18" X 18" MAIN DRAINS, SUMPS, FRAMES, GRATES AND PIPING. THE CONTRACTOR SHALL PROVIDE VG&A CERTIFICATION TO THE OWNER AND HEALTH DEPARTMENT.
- REFER TO SHEET SP-112 FOR NEW DECK LAYOUT PLAN IN COORDINATION WITH CONTRACTOR FIELD LAYOUT AND EXISTING INFORMATIONAL PLANS. ALL NEW CONCRETE SHALL BE 4,000 PSI MINIMUM AT 28 DAYS.
- CONTRACTOR IS TO PHOTOGRAPH AND DOCUMENT ON A PLAN ANY AND ALL EXISTING DAMAGED ITEMS/SURFACES FINISHES IN AND IMMEDIATELY AROUND THE WORK AREA AND ALONG ALL WORK PATHS FROM STAGING AREA PRIOR TO THE START OF WORK. CONTRACTOR IS TO SITE WALK ALL EXISTING DAMAGED AREAS WITH THE OWNER AND PROVIDE A COPY OF THE PHOTOGRAPHS AND DOCUMENTATION BEFORE WORK BEGINS. FAILURE TO PROVIDE THIS INFORMATION REPRESENTS ACCEPTANCE BY THE CONTRACTOR THAT ALL EXISTING SURROUNDING FINISHES (CONCRETE, AG PAVING, FLOORING, ETC.) AND ALL GATES, DOORS, PATHWAYS, ETC. ARE UNDAMAGED AND IN CLEAN AND FUNCTIONING CONDITION, AND CONTRACTOR ACCEPTS THE RESPONSIBILITY TO MAINTAIN AND CORRECT ANY DAMAGE LATER FOUND BY THE OWNER DURING CONSTRUCTION PERIOD IN THESE AREAS AT NO EXPENSE TO THE OWNER.
- REMOVE EXISTING POOL DECKS AND POOL COPING AS SHOWN. NEW SUBGRADES ARE TO BE SCARIFIED A MIN OF 8" AND COMPACTED TO 10% PER ASTM D1557. THE CONTRACTOR SHALL COORDINATE AND PROTECT ALL ADJACENT WORK, BUILDINGS, ETC. TO REMAIN. COORDINATE DECK ELEVATIONS WITH EXISTING. MAXIMUM DECK SLOPE IN ANY DIRECTION SHALL BE 1.5% MAXIMUM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE DEMOLITION, REMOVAL AND LEGAL DISPOSAL OF ALL EXISTING CONCRETE POOL DECKING SHOWN HATCHED ON THE PLANS, REGARDLESS OF THICKNESS, REINFORCING AND DECK SUBGRADE CONDITIONS. POOL DECK SUBGRADE SHALL BE BROUGHT INTO CONFORMANCE WITH NEW DECK DESIGN INCLUDING THICKNESS AND TYPE OF MATERIALS IN CONFORMANCE WITH SOILS REPORT AND/OR DETAILS HEREON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OR IMPORTING SUBGRADE MATERIAL AND COMPACTION TO PROVIDE THE REQUIRED POOL DECK GRADES FOR NEW POOL DECKING PER PLANS AND SPECIFICATIONS.
- REMOVE AND REPLACE EXISTING SWIMMING POOL MECHANICAL EQUIPMENT AS SHOWN ON SHEET SP-411 AND SP-412.
- CARE IS TO BE TAKEN DURING POOL DRAIN DOWN, TO RELIEVE ANY HYDROSTATIC PRESSURE THROUGH EXISTING HYDROSTATIC RELIEF VALVES AND DRAINING THE POOL SLOWLY.
- REMOVE EXISTING LIFEGUARD CHAIR.



SWIMMING POOL / DIVING POOL DEMOLITION PLAN

1/8"=1'-0"

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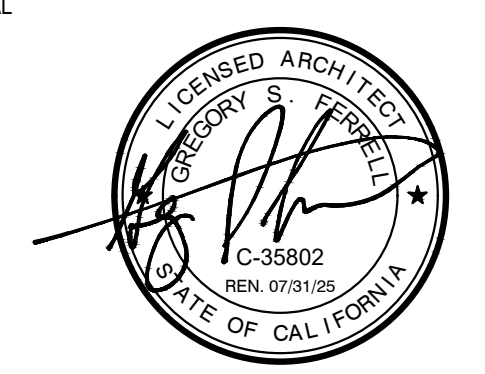
LIONAKIS

2025 Nineteenth Street
 Sacramento CA 95818
 P 916.558.1900
 www.lionakis.com

CONSULTANT



SEAL



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 JOHN F KENNEDY HIGH SCHOOL
 SWIMMING POOL UPGRADE

6715 GLORIA DR
 SACRAMENTO, CA 95831

CLIENT
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

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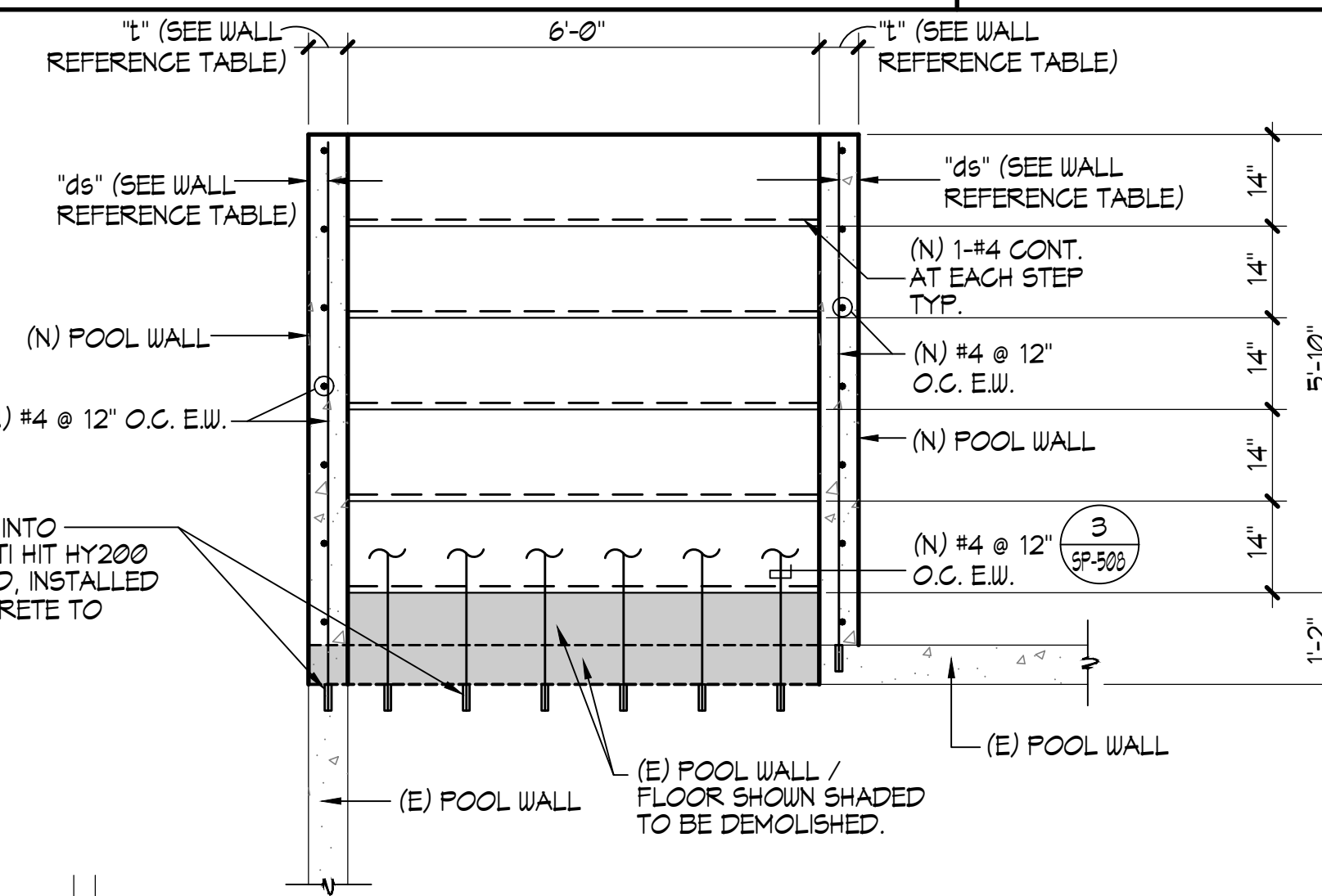
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TITLE
**SWIMMING POOL / DIVING
 POOL DEMOLITION PLAN**

SHEET
SP-111

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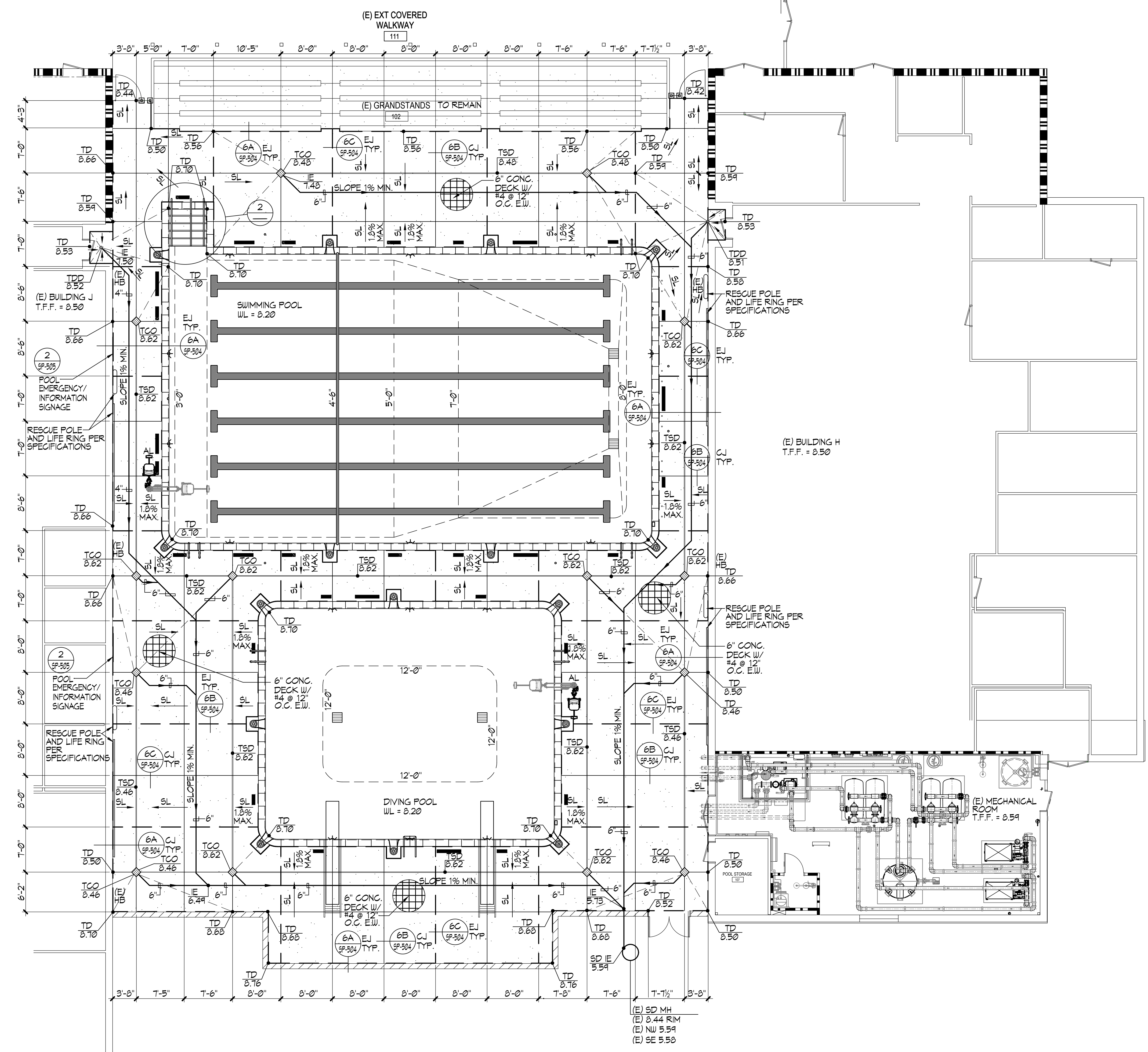
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2 STAIRS REINFORCEMENT PLAN
1/8"=1'-0"

WALL REINFORCEMENT TABLE						
WATER DEPTH	"t"	"ds"	RADIUS	VERTICAL REINF.	HORIZONTAL REINF.	TRANSITION TO FLOOR REINF. BEYOND END RADIUS
0'-0" TO 3'-0"	6"	3"	6" TO 12"	#4 @ 12" O.C.	#4 @ 12" O.C.	24"

NOTE:
SEE 1, SP-501 FOR CONCRETE AND SHOTCRETE NOTES.



1 SWIMMING POOL / DIVING POOL DECK PLAN
1/8"=1'-0"

SWIMMING POOL DATA

SURFACE AREA	=	3,417 SQ. FT.
PERIMETER	=	250 FT.
DEPTHS	=	3'-0" TO 8'-0"
VOLUME	=	146,715 GAL.
6 HR. TURNOVER	=	407 GPM

DIVING POOL DATA

SURFACE AREA	=	1,616 SQ. FT.
PERIMETER	=	159 FT.
DEPTHS	=	12'-0"
VOLUME	=	145,052 GAL.
6 HR. TURNOVER	=	403 GPM

LEGEND

- EJ — = EXPANSION JOINT
- CJ — = CONTROL JOINT
- TSD — = TOP OF SLOT DRAIN
- TCO = TOP OF CLEAN-OUT
- AL = ACCESSIBLE LIFT
- TDD = TOP OF DECK DRAIN
- HB = HOSE BIBB
- V.I.F. = VERIFY IN FIELD
- SL = SLOPE DIRECTION
- WL = WATERLEVEL
- TFF = TOP OF FINISHED FLOOR
- TD = TOP OF DECK
- I.E. = INVERT ELEVATION
- P.O.C. = POINT OF CONNECTION
- SD = STORM DRAIN
- (E) = EXISTING
- (N) = NEW

- NOTES:**
- COORDINATE SIGNAGE PLACEMENT AND COLOR SCHEME WITH OWNER PRIOR TO INSTALLATION.
 - DECKS SHALL HAVE 1% MIN. SLOPE AND 1.0% MAX. SLOPE TO DRAINS.
 - ALL POOL DECKING SHALL BE NON-SLIP AND NON-ABRASIVE MEDIUM BROOM FINISH WITH NATURAL GRAY CONCRETE UNLESS OTHERWISE NOTED.
 - REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND QUANTITY OF REQUIRED EXITS, DRINKING FOUNTAINS, AND SANITARY FIXTURES.
 - THE POOL CANNOT BE WITHOUT AN APPROVED POOL ENCLOSURE AT ANY TIME, INCLUDING DURING CONSTRUCTION AND INSTALLATION OF THE NEW POOL ENCLOSURE.

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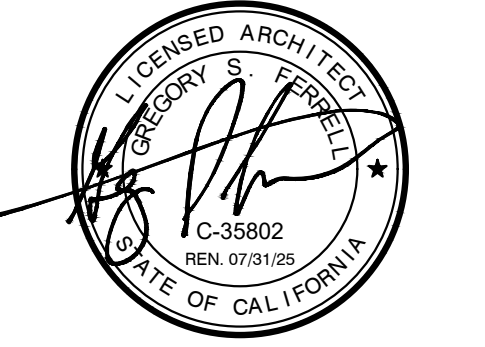
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2025 Nineteenth Street
Sacramento CA 95818
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SEAL



PROJECT
**JOHN F KENNEDY HIGH SCHOOL
SWIMMING POOL UPGRADE**

6715 GLORIA DR
SACRAMENTO, CA 95831

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

ISSUED	MARK	DATE	DESCRIPTION

MANAGEMENT	
LIONAKIS PROJECT NO.	200002
CLIENT PROJECT NO.	700.00.007
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TITLE
**SWIMMING POOL /
DIVING POOL DECK
PLAN**

SHEET
SP-112

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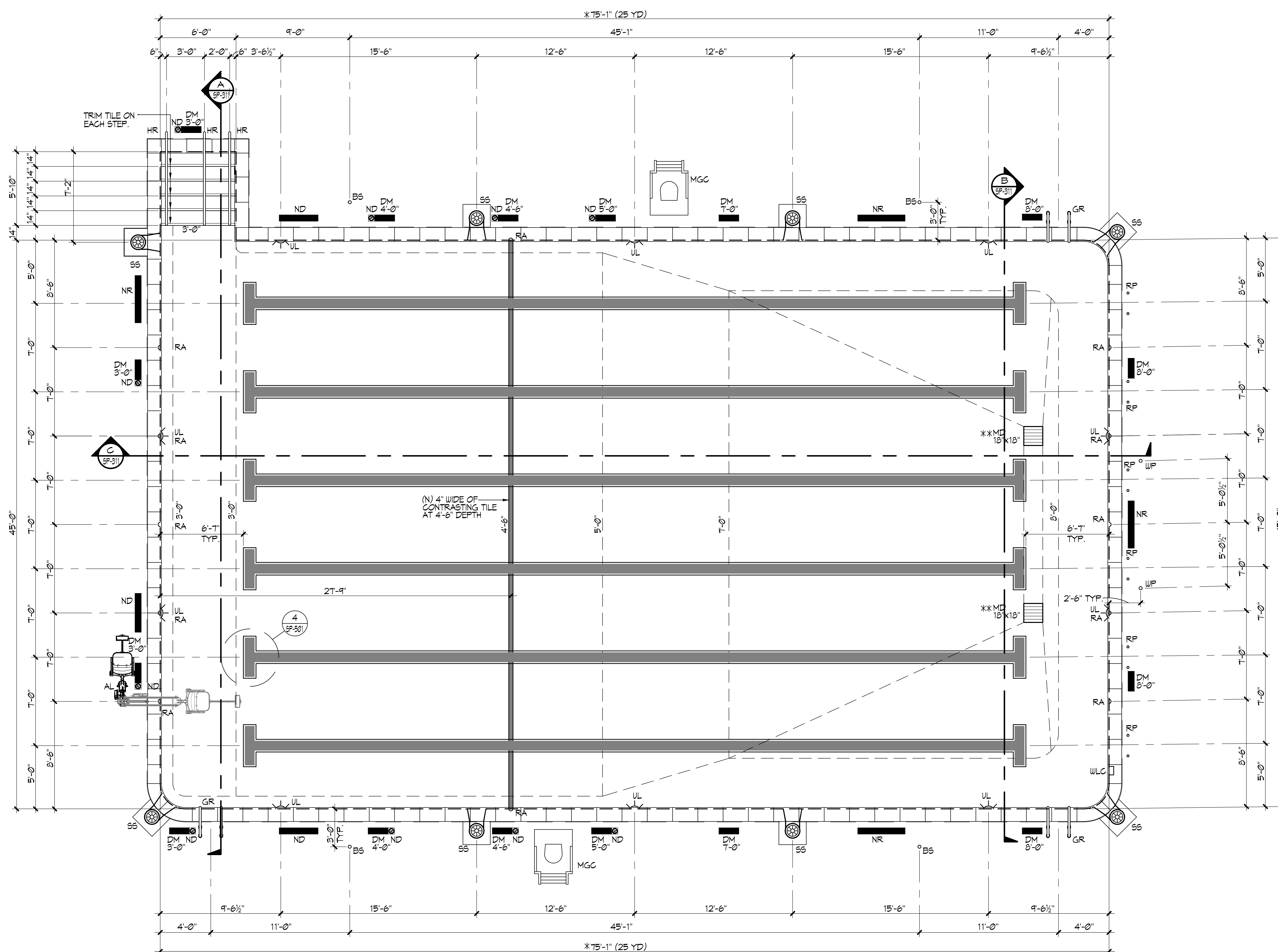
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P 916.558.1900
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SWIMMING POOL DATA

SURFACE AREA	=	3,417 SQ. FT.
PERIMETER	=	250 FT.
DEPTHS	=	3'-0" TO 8'-0"
VOLUME	=	146,715 GAL.
6 HR TURNOVER	=	407 GPM

LEGEND

** MD	=	MAIN DRAIN	3	SP-503
UL	=	UNDERWATER LIGHT	3	SP-504
DM	=	DEPTH MARKER	6	SP-501
NR	=	NO RUNNING	7	SP-502
ND	=	NO DIVING	1	SP-502
GR	=	GRABRAIL	1	SP-503
MGC	=	MOVEABLE GUARD CHAIR	4	SP-504
AL	=	ACCESSIBLE LIFT	7	SP-502
SS	=	SURFACE SKIMMER	1	SP-504
BS	=	BACKSTROKE STANCHION	2	SP-502
WLC	=	WATER LEVEL CONTROLLER	2	SP-504
RP	=	RAGING PLATFORM	2	SP-502
RA	=	ROPE ANCHOR	3	SP-502
WP	=	WATERPOLO GOAL	6	SP-502
HR	=	HANDBRAIL	3	SP-506

CERTIFICATION REQUIREMENTS

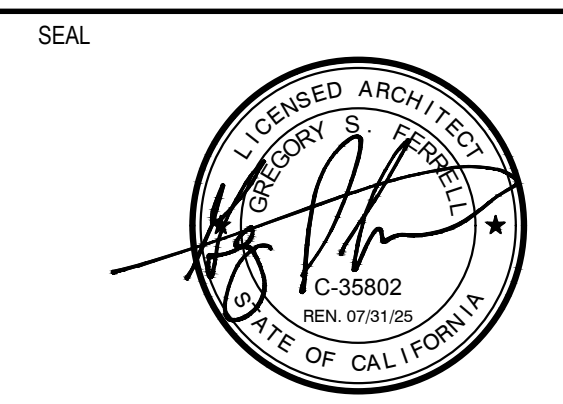
* THE CONTRACTOR SHALL RETAIN AN INDEPENDENT LICENSED SURVEYOR TO PROVIDE PROOF OF COMPLIANCE FOR REQUIRED POOL LENGTHS AS FOLLOWS: (RECOMMEND PATRELL ENG. GROUP (626) 335-4362)

SHORT COURSE-25YDS; (ALLOWS FOR TOUCH PADS AT ONE END) 75'-0" 5/16" MIN.; 75'-1" 3/16" MAX.

TOLERANCE AGAINST LENGTH SHALL EXTEND IN A VERTICAL PLANE 0.3M (12") ABOVE AND 0.5M (2'-0") BELOW THE SURFACE OF THE WATER AT ALL POINTS OF BOTH END WALLS TYP. OF ALL COURSES.

THE INDEPENDENT LICENSED SURVEYOR SHALL FILL OUT, NOTARIZE AND FILE OFFICIAL CERTIFICATION FORM(S) WITH USA SWIMMING.

** CONTRACTOR SHALL RETAIN A LICENSED ENGINEER TO CERTIFY THE FIELD BUILT MAIN DRAIN SYSTEMS AS V.G.B. COMPLIANT.



PROJECT
JOHN F KENNEDY HIGH SCHOOL
SWIMMING POOL UPGRADE

6715 GLORIA DR
SACRAMENTO, CA 95831

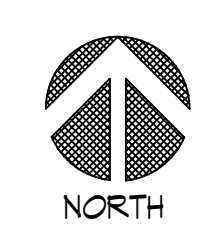
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TITLE
SWIMMING POOL
LAYOUT PLAN

SHEET
SP-113



0.14" = 1'-0"

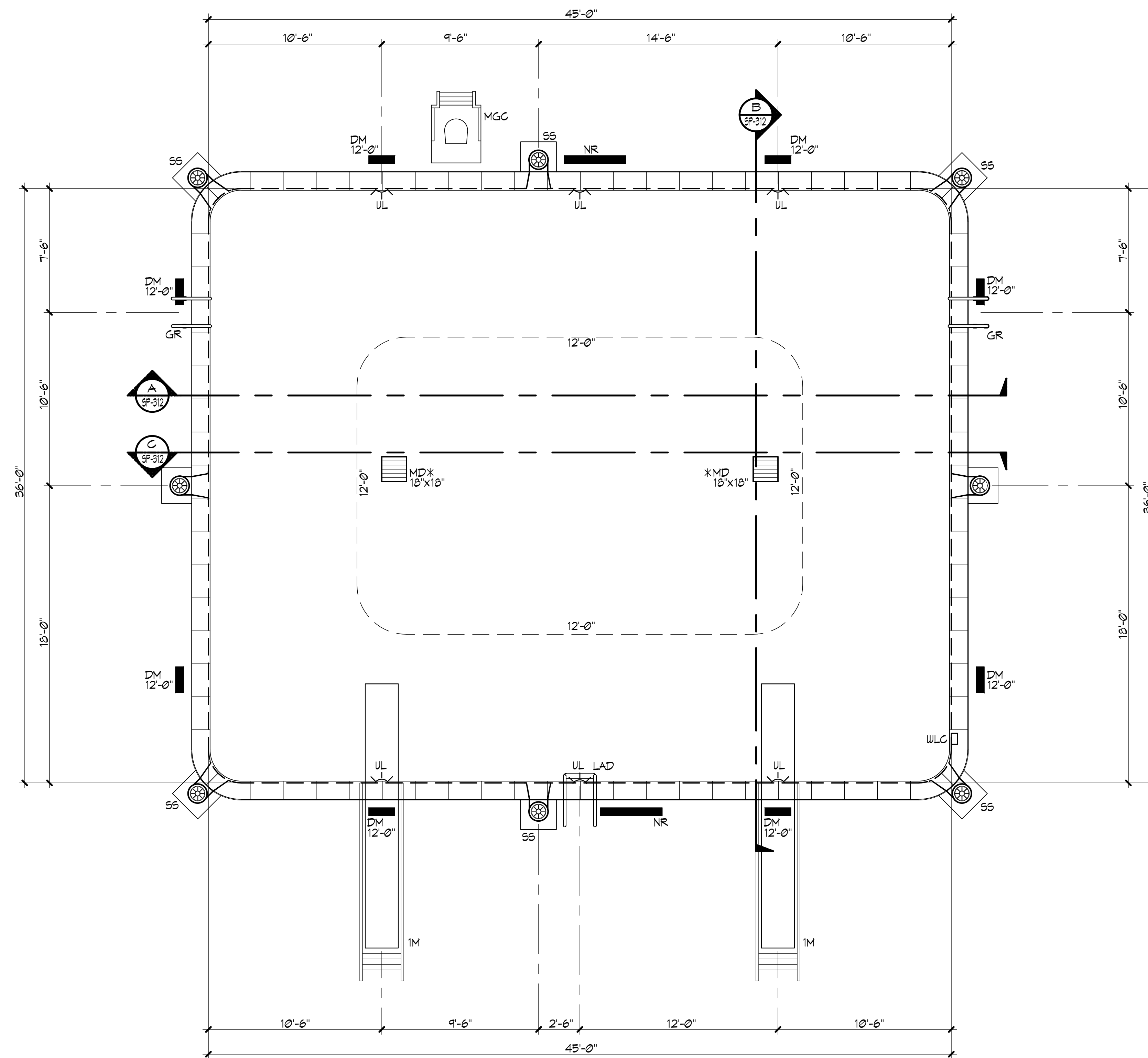
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DIVING POOL DATA

SURFACE AREA	=	1,616 SQ. FT.
PERIMETER	=	159 FT.
DEPTHS	=	12'-0"
VOLUME	=	145,052 GAL.
6 HR. TURNOVER	=	403 GPM

LEGEND

* MD	=	MAIN DRAIN	3	SP-503
UL	=	UNDERWATER LIGHT	3	SP-504
DM	=	DEPTH MARKER	6	SP-501
NR	=	NO RUNNING	7	SP-501
MGC	=	MOVEABLE GUARD CHAIR	4	SP-503
GR	=	GRABRAIL	1	SP-504
SS	=	SURFACE SKIMMER	1	SP-504
LAD	=	LADDER	5	SP-502
WLC	=	WATER LEVEL CONTROLLER	2	SP-504
1M	=	ONE METER DIVE STAND	2	SP-503

CERTIFICATION REQUIREMENTS

* CONTRACTOR SHALL RETAIN A LICENSED ENGINEER TO CERTIFY THE FIELD BUILT MAIN DRAIN SYSTEMS AS V.G.B. COMPLIANT.

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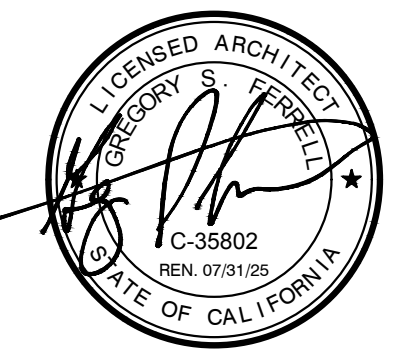
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PROJECT
**JOHN F KENNEDY HIGH SCHOOL
SWIMMING POOL UPGRADE**

6715 GLORIA DR
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TITLE

**DIVING POOL
LAYOUT PLAN**

SHEET

SP-114

DIVING POOL LAYOUT PLAN

1/4"=1'-0"

1

0.14" = 1'-0"

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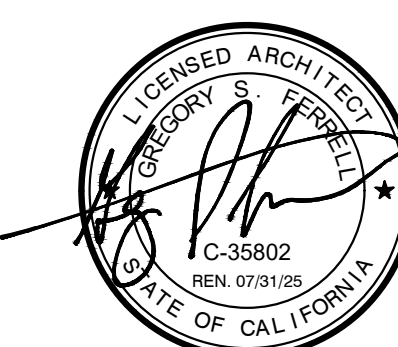
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MANAGEMENT

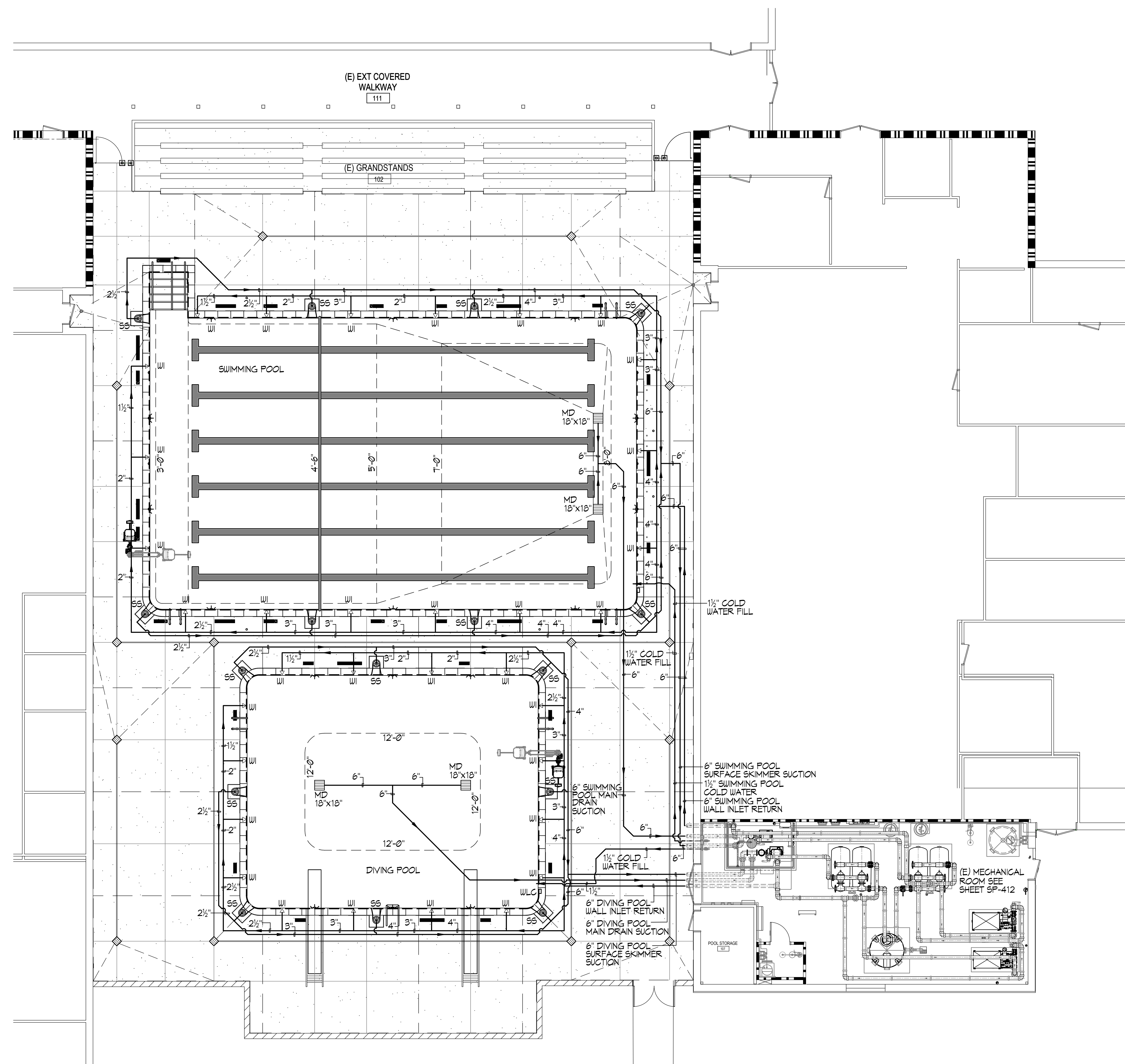
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TITLE

SWIMMING POOL / DIVING POOL PIPING PLAN

SHEET

SP-115



SWIMMING POOL DATA

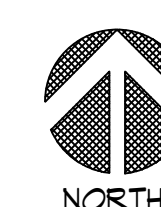
SURFACE AREA	=	3,417 SQ. FT.
PERIMETER	=	250 FT.
DEPTHS	=	3'-0" TO 8'-0"
VOLUME	=	146,715 GAL.
6 HR TURNOVER	=	407 GPM

DIVING POOL DATA

SURFACE AREA	=	1,616 SQ. FT.
PERIMETER	=	159 FT.
DEPTHS	=	12'-0"
VOLUME	=	143,052 GAL.
6 HR TURNOVER	=	403 GPM

LEGEND

MD	=	MAIN DRAIN	
SS	=	SURFACE SKIMMER	
WLC	=	WATER LEVEL CONTROLLER	
WI	=	WALL INLET	



SWIMMING POOL / DIVING POOL PIPING PLAN

1/8"=1'-0"

1

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

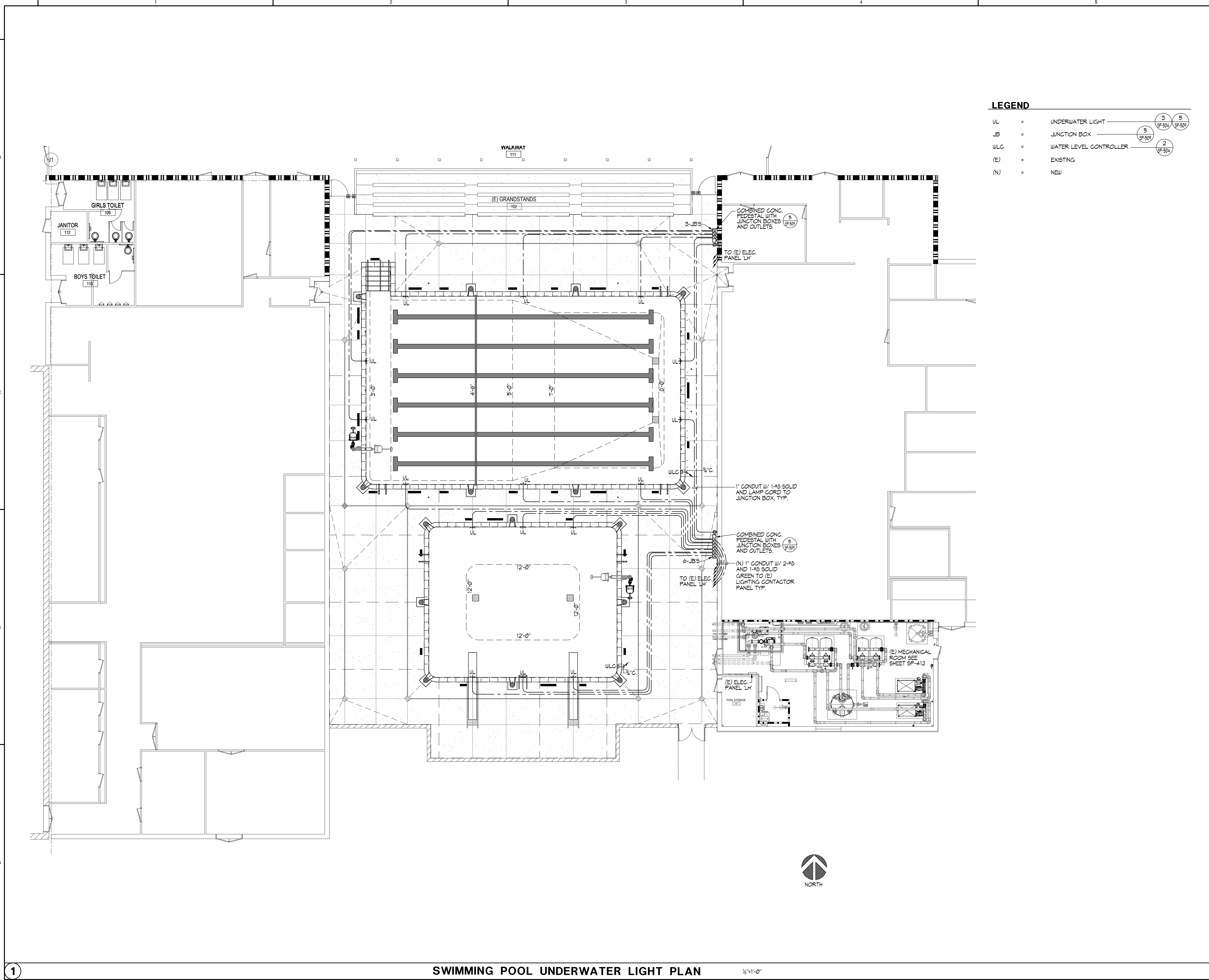
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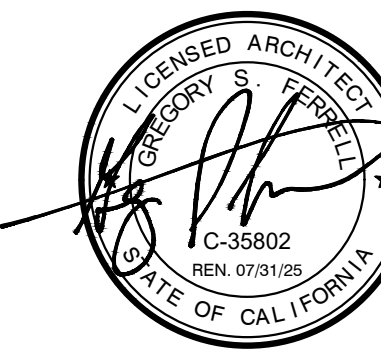
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CONSULTANT

AQUATIC
 DESIGN GROUP
 2226 Faraday Ave. Carlsbad, CA 92008
 AquaticDesignGroup.com
 760.438.8400

SEAL



PROJECT
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SWIMMING POOL UPGRADE

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TITLE
SWIMMING POOL /
DIVING POOL
UNDERWATER LIGHT
PLAN

SHEET

SP-116

SWIMMING POOL UNDERWATER LIGHT PLAN

1/8"=1'-0"

1

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DATE: 05/09/2024

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Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

AQUATIC
DESIGN GROUP
2226 Faraday Ave, Carlsbad, CA 92008
AquaticDesignGroup.com
760.438.8400

SEAL



PROJECT
**JOHN F KENNEDY HIGH SCHOOL
SWIMMING POOL UPGRADE**

6715 GLORIA DR
SACRAMENTO, CA 95831

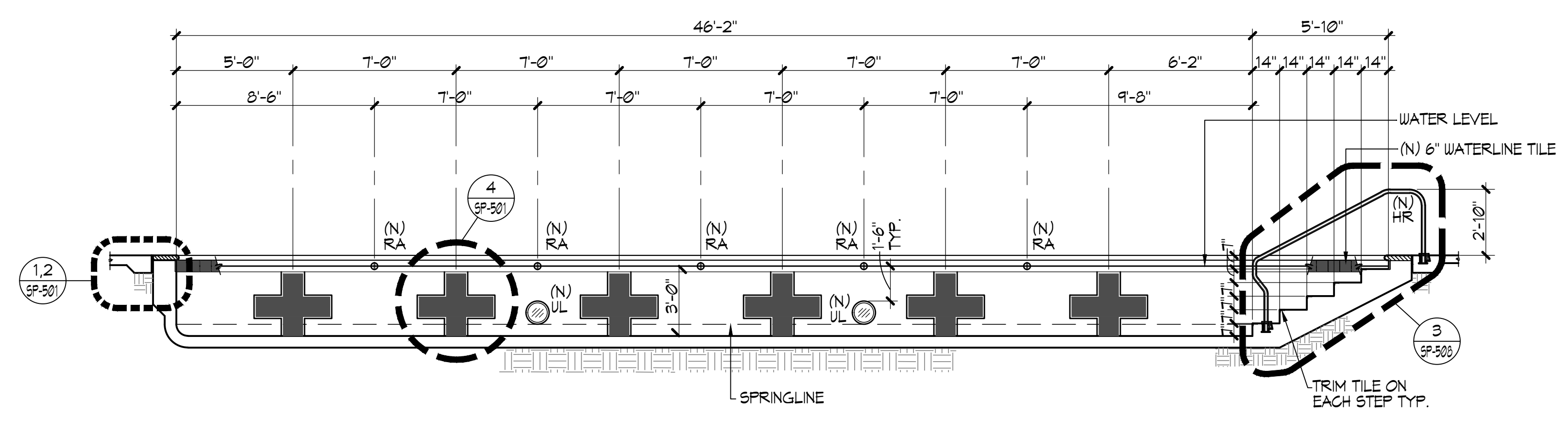
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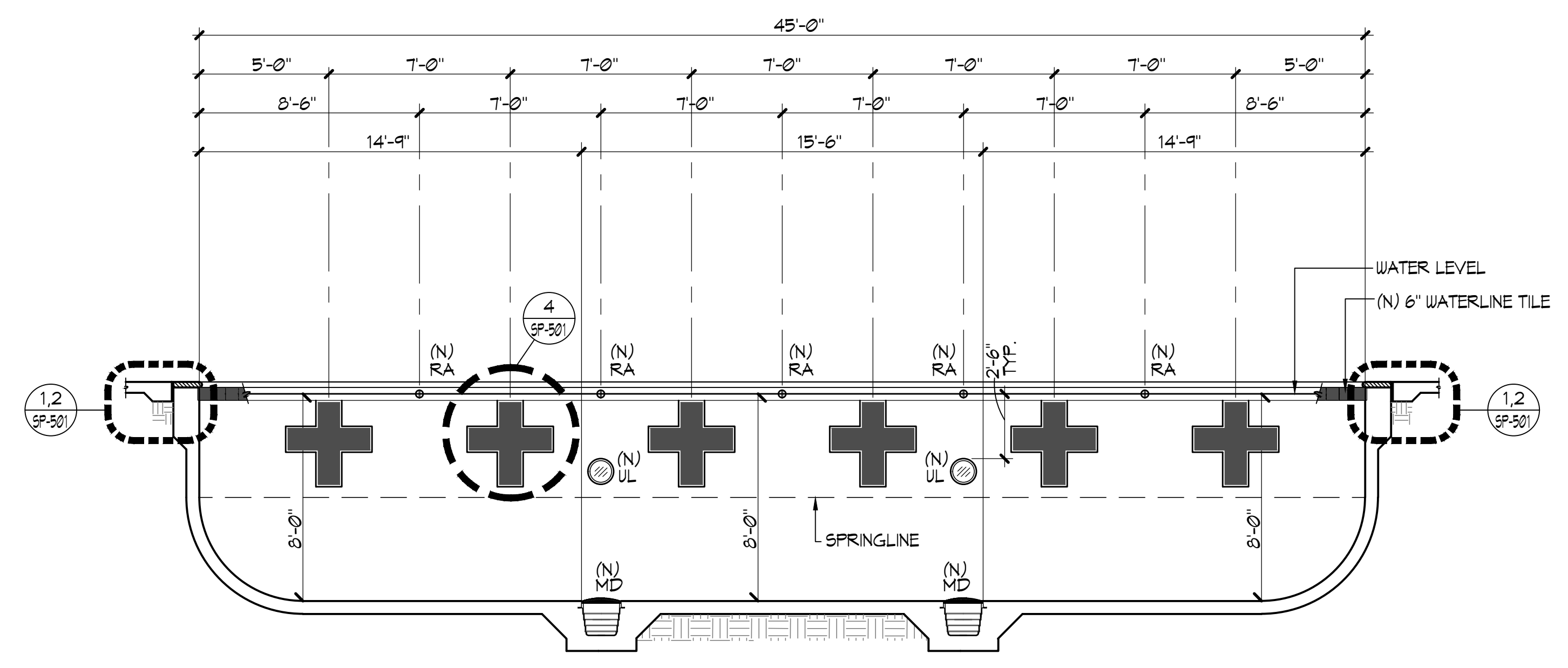
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TITLE
**SWIMMING POOL
SECTIONS**

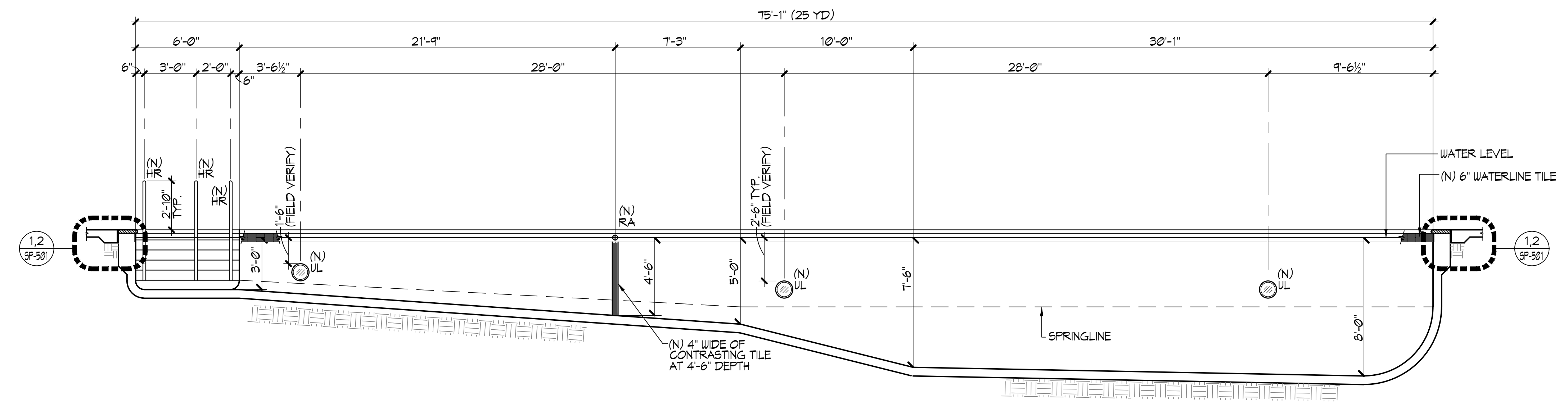
SHEET
SP-311



SWIMMING POOL SECTION 1/4" = 1'-0"



SWIMMING POOL SECTION 1/4" = 1'-0"



SWIMMING POOL SECTION 1/4" = 1'-0"

0.14" = 1'-0"

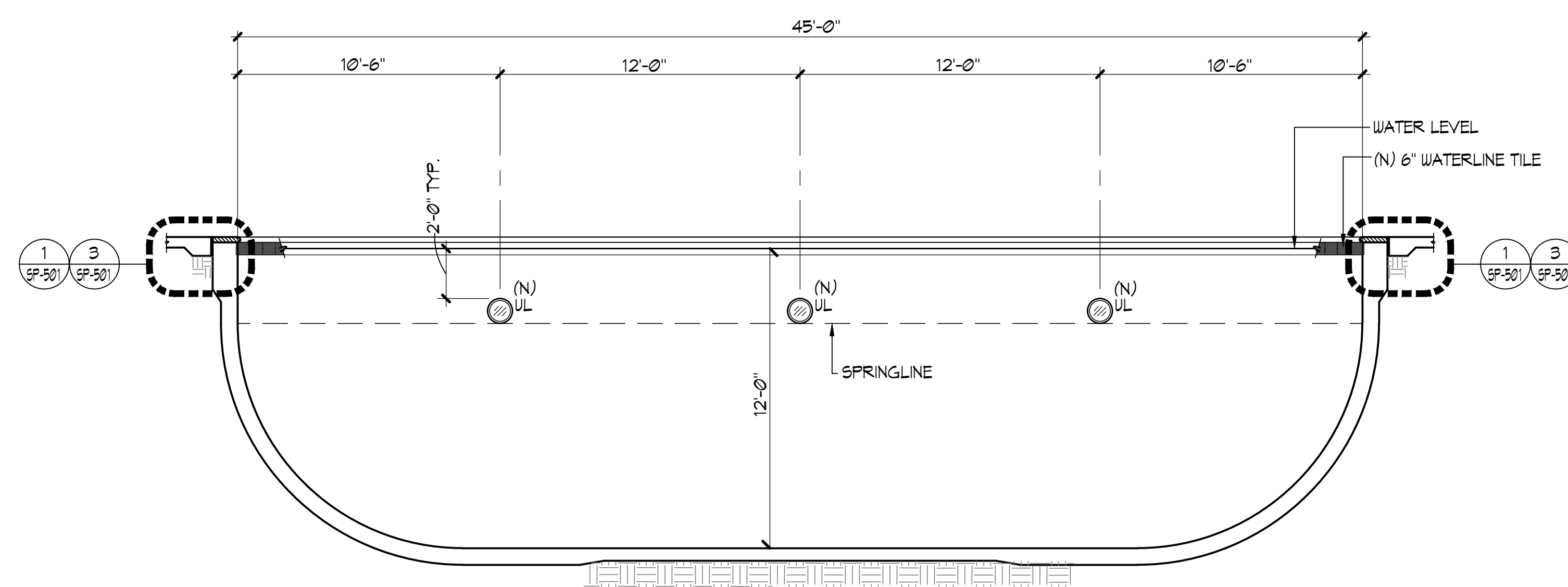
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C

B

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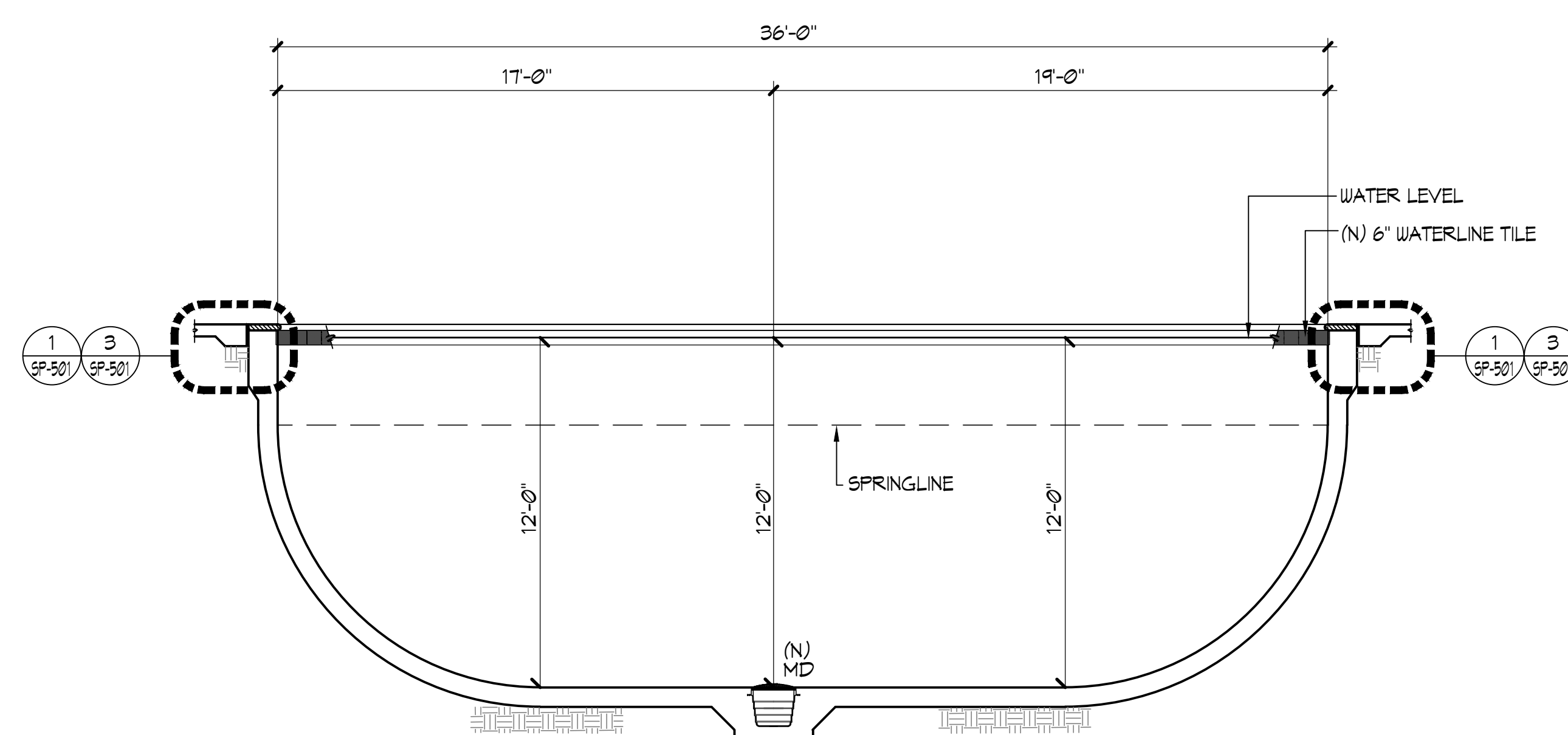
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A

DIVING POOL SECTION

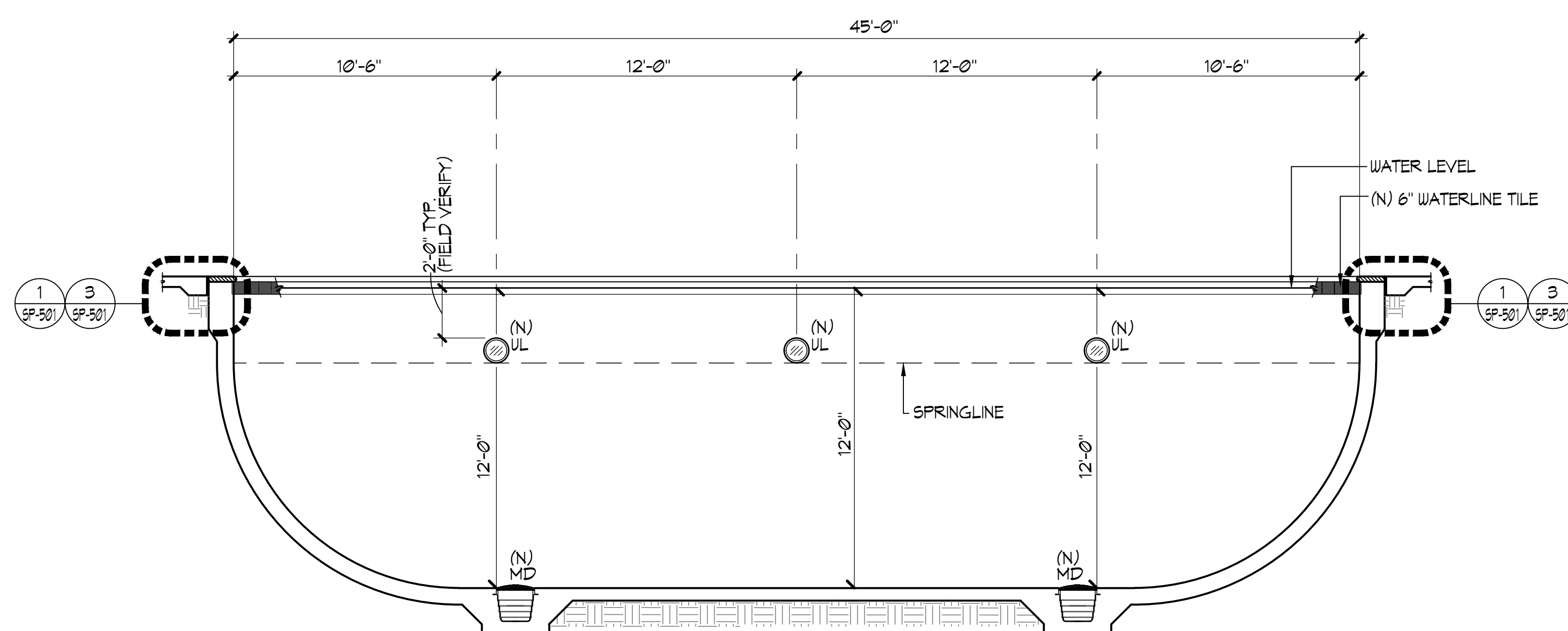
1/4" = 1'-0"



B

DIVING POOL SECTION

1/4" = 1'-0"



C

DIVING POOL SECTION

1/4" = 1'-0"

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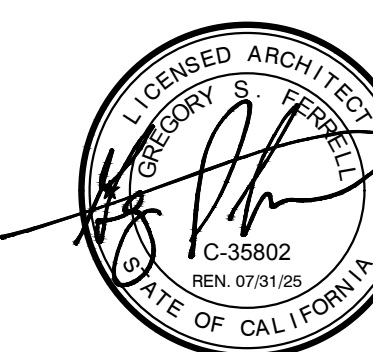
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 SACRAMENTO, CA 95831

CLIENT
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

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DIVING POOL SECTIONS

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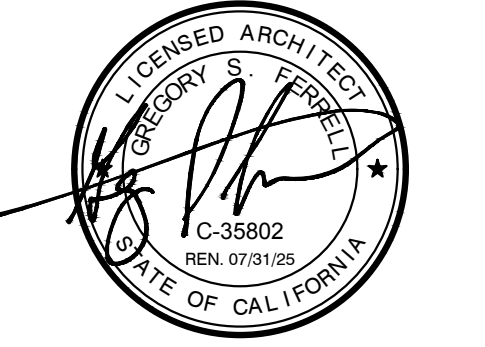
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TITLE
MECHANICAL
ROOM DEMOLITION
PLAN

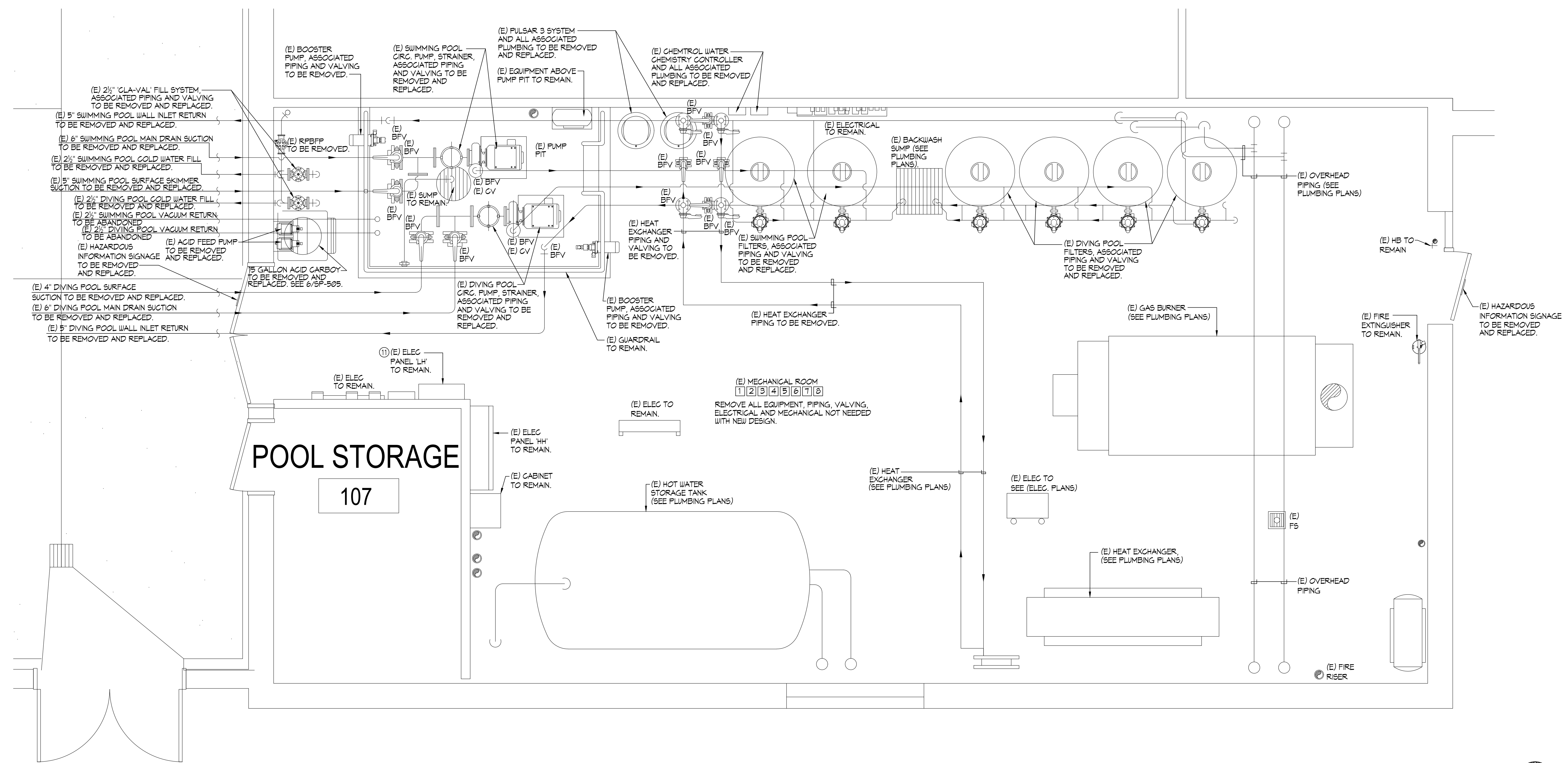
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SP-411

DEMOLITION NOTES

- COORDINATE DEMOLITION WORK WITH THE OWNER, PROTECT ALL EXISTING WORK, BUILDINGS, PIPING, EQUIPMENT, UTILITIES, ETC. TO REMAIN.
- REPAIR OR REPLACE ANY DAMAGED ITEMS DUE TO DEMOLITION AND/OR CONSTRUCTION.
- COORDINATE INGRESS/EGRESS AND HAUL ROUTES WITH THE CONTRACTOR PRIOR TO START OF WORK.
- THIS PLAN VIEW IS SHOWN FOR INFORMATION AND ASSISTANCE. THE CONTRACTOR IS RESPONSIBLE FOR INDIVIDUAL DIMENSIONS, ELEVATIONS, TAKE-OFFS AND ESTIMATIONS WITH REGARD TO DEMOLITION PREPARATION, AS WELL AS MEANS AND METHODS OF CONSTRUCTION AND SHALL VISIT THE SITE AS REQUIRED TO ACCOMPLISH THE WORK, AND TO BECOME FAMILIAR WITH SCOPE AND SERVICES OF WORK REQUIRED.
- THE OWNER SHALL IDENTIFY, REMOVE, SALVAGE ANY ITEMS AS DESIRED PRIOR TO CONTRACTOR MOVE-IN.
- COORDINATE DEMOLITION AND POINTS OF CONNECTION WITH EXISTING UTILITIES, AND PIPING SYSTEMS IN THE FIELD TO ALLOW NEW WORK TO BE ACCOMPLISHED IN THE BEST FASHION.
- CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND HAULING OFF OF ALL MECHANICAL EQUIPMENT, PIPING, VALVING, AND THE LIKE, AND LEGALLY DISPOSING OF ALL SUCH MATERIAL FROM THE SITE AS PART OF THE OVERALL BASE BID.
- LEAVE ADEQUATE PLUMBING LENGTH DURING DEMO FOR POC TO NEW PLUMBING.

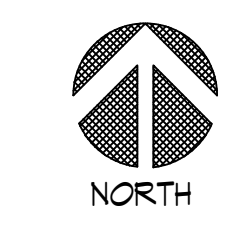
LEGEND

- (E) = EXISTING
- RFBFP = REDUCED PRESSURE BACKFLOW PREVENTOR
- BFV = BUTTERFLY VALVE
- BV = BALL VALVE
- CV = CHECK VALVE
- FS = FLOOR SINK



MECHANICAL ROOM DEMOLITION PLAN

1/4"=1'-0"



EQUIPMENT LIST

- 1 SWIMMING POOL / DIVING POOL STRAINER(S): #RSW116106531 FLUIDTROL® RSW SERIES REDUCING STRAINER(S) TWO (2) 6"x5" FRP MOLDED WITH CAST ACRYLIC COVER AND TWO (2) FRP MOLDED STRAINERS EA. (41 lbs.)
- 2 SWIMMING POOL / DIVING POOL CIRCULATION PUMP(S): PACO #4012-4, 4"x5"x12" TYPE LC END SUCTION CENTRIFUGAL PUMP, 1107 RPM, 460V, 3PH, 15HP, RATED AT 415 GPM @ 60 FT. TDH, 76% EFFICIENT, PREMIUM EFFICIENCY TEFC MOTOR, EPOXY COAT ALL WET SURFACES, PACO, AURORA OR APPROVED EQUAL. (425 lbs.) PROVIDE SPES SMART PUMP CONTROL SYSTEM VARIABLE SPEED DRIVE MODEL SP02015N4X4 15"x8"x10" DRIVE AND 24"x24"x10" PANEL, TWO (2) TOTAL, COORDINATE MOUNTING LOCATION TO MAINTAIN DESIRED CLEARANCES, 460V 3PH, (102 lbs. COMBINED WEIGHT).
- 3 SWIMMING POOL / DIVING POOL FILTERS: EKO® SYSTEMS GEN 2 #EKO-34159-0606-T-2 AUTOMATIC FILTER CONTROL (AFC) FULLY AUTOMATIC HI-RATE PERMANENT MEDIA FILTER WITH 30.6 SQ. FT. OF FILTER AREA RATED AT 484 GPM AT 15 GPM/SQ. FT. COMPLETE WITH 6" FACE PIPING, 6" BACKWASH, SEISMIC ANCHORAGE, PROVIDE ALL UTILITIES, PIPING, VALVING ETC. (3,875 lbs EACH TANK) EKO® SYSTEMS GEN 2 OR EQUAL, PROVIDE TWO (2) SIGNET PS1530-PX FLOSENSOR WITH DIGITAL READ-OUT, TWO (2) SYSTEMS TOTAL.
- 4 SWIMMING POOL HEATER: INDIRECT FIRED POOL HEATING PACKAGE SYSTEM; RAYPAK® CONTROL CONDENSING MODULATING BOILER, TITANIUM HEAT EXCHANGER WITH CPVC CONNECTIONS, FACTORY ASSEMBLED SKID MOUNTED PACKAGE, CALIFORNIA CODE CONTROLS, 1½" NATURAL GAS CONNECTION, 6" INFLUENT AND EFFLUENT WATER CONNECTIONS AND 6" DIAMETER VENT SIZE, 1,500,000 BTU PER HOUR INPUT, PROVIDE ¾" COLD WATER CONNECTION RAYPAK #1505A, X-THERM, WEIGHT = 1,448 lbs. ONE (1) TOTAL.
- 5 DIVING POOL HEATER: INDIRECT FIRED POOL HEATING PACKAGE SYSTEM; RAYPAK® CONTROL CONDENSING MODULATING BOILER, TITANIUM HEAT EXCHANGER WITH CPVC CONNECTIONS, FACTORY ASSEMBLED SKID MOUNTED PACKAGE, CALIFORNIA CODE CONTROLS, 1½" NATURAL GAS CONNECTION, 6" INFLUENT AND EFFLUENT WATER CONNECTIONS AND 6" DIAMETER VENT SIZE, 999,000 BTU PER HOUR INPUT, PROVIDE ¾" COLD WATER CONNECTION RAYPAK #1005A, X-THERM, WEIGHT = 1,343 lbs. ONE (1) TOTAL.
- 6 CHLORINE STORAGE/FEED SYSTEM: 350 GALLON #CG2526DC; DUAL STORAGE/CONTAINMENT TANK WITH LID SEISMICALLY RESTRAINED; (2,415 lbs.) COMPLIES WITH FED. REG. #40CFR-264-163, FEED PUMP(S); STENNER #45M5, 50 GPD @ 25 PSI, TWO (2) TOTAL.
- 7 ACID STORAGE/FEED SYSTEM: 15 GALLON ACID CARBOY, FEED PUMP(S); STENNER #45M5, 50 GPD @ 25 PSI, TWO (2) TOTAL, PROVIDE FIG BLADDER POLY SPILL CONTAINMENT DECK, HOLDS ONE (1) 55 GAL. POLY OR STEEL DRUM, 26"x30.38"x5.75", SUMP CAPACITY 66 GAL.
- 8 CARBON DIOXIDE STORAGE FEED SYSTEM: PROVIDE TWO (2) NOVO-T50, T50 LB. CRYOGENIC LIQUID CO2 STORAGE TANK WITH TWO (2) REMOTE FILL PORTS, 594 LIQUID LBS., (5.195 CUBIC FEET OF GASEOUS CO2 AT NTP) TWO (2) TOTAL, PROVIDE TEK SINGLE TANK SYSTEM #09-040 & CO2 SOLENOID UNIT #09-019, INCLUDE SINGLE TANK REGULATOR WITH PRESSURE GAUGE, CO2 FEED UNIT WITH FLOW METER, CO2 DIFFUSER WITH CHECK VALVE, CO2 TUBING AND FITTINGS, 0 TO 160 SCFH FEED CAPACITY, TWO (2) SYSTEMS TOTAL (5 lbs. EA.) PROVIDE HARD WIRED ANALOX® RAPI KIT CO2 DETECTOR WITH AUDIBLE AND VISUAL ALARMS IN EXISTING MECHANICAL ROOM, UL 1971 STANDARD LISTED, ONE (1) TOTAL.
- 9 EYEWASH/SHOWER: HAUS MODEL #8300-3300RCP BARRIER FREE COMBINATION SHOWER AND EYEWASH WASH WITH CORROSION RESISTANT PROTECTION, SEE MEP SHEETS FOR SUPPLY PIPING, TWO (2) TOTAL.
- 10 SWIMMING POOL / DIVING POOL FILL SYSTEM(S): NICHE MOUNTED PEM MODEL L104-46 WALL MOUNTED SENSOR UNIT WITH PEM L104-102A, 115V UL LISTED CONTROL PANEL, SOLENOID VALVES, ETC. TWO (2) TOTAL, SWIMMING POOL AND DIVING POOL = 1½" FILL.
- 11 EXISTING ELECTRICAL PANELS, PANEL SCHEDULES TO BE REVISED AS NECESSARY.
- 12 EXISTING ELECTRICAL EQUIPMENT AND DISCONNECTS.
- 13 SWIMMING POOL / DIVING POOL WATER CHEMISTRY CONTROLLER(S): PROVIDE ETHERNET CONNECTION TO BEGYS® CS-BEGYS1-BP-E WATER CHEMISTRY CONTROLLER, TWO (2) TOTAL, PROVIDE COMPLETE SYSTEM CONTROL PACKAGE, BEGYS SYSTEM T, IMPACT, WALLAGE & TIERNAN OR APPROVED EQUAL.
- 14 CHEM-TAINER® #TC64151C 64" DIA. X 115" TALL POLYETHYLENE 1,475 GALLON BACKWASH STORAGE TANK ON (N) 6" CONCRETE PAD.

THREE PHASE MOTOR LOADS AT 460V

SWIMMING POOL / DIVING POOL CIRCULATION PUMP(S): 15 HP @ 460V = 21 AMPS

GENERAL NOTES

1. THE PIPING SYSTEM SHALL HAVE DIRECTION OF FLOW ARROWS INDICATED ON THE PIPES.
2. PUBLIC POOLS SHALL HAVE A FLOW DIAGRAM OF THE POOL'S PIPING SYSTEM WITH OPERATION INSTRUCTIONS.
3. THE FLOW DIAGRAM AND INSTRUCTIONS SHALL BE AVAILABLE ON THE PREMISES AT ALL TIME.
4. ALL CHEMICAL FEED SYSTEMS ARE INTERLOCKED WITH THEIR ASSOCIATED CIRCULATION PUMPS AND SHALL NOT OPERATE WHEN THE PUMP IS OFF OR DURING THE FILTER BACKWASH.

LEGEND

- BV = BALL VALVE CO2I = CO2 INJECTION
 BFFV = BUTTERFLY VALVE (E) = EXISTING
 CV = CHECK VALVE (N) = NEW
 FM = FLOWMETER
 BU = BACKWASH
 AI = ACID INJECTION
 CI = CHLORINE INJECTION
 VG = VACUUM GAUGE
 PS = PIPE SUPPORT (SEE STRUCTURAL PLANS)
 RPBFP = REDUCED PRESSURE BACKFLOW PREVENTOR

EPOXY REBAR PULL TESTING LOADS

BAR SIZE	DEPTH	PRODUCT	TEST VALUE
#4	3" EMBED	HILTI HIT-HY 200 V3 (ICC ESR-4866)	1,050 LBS

INSTALLATION PARAMETERS:

- MINIMUM CONCRETE AGE: 21 DAYS
- DRILLING: HAMMER DRILLED
- TEMPERATURE: 14-114°F
- MOISTURE CONDITION: DRY OR SATURATED
- CLEANING: AUTOMATIC OR COMPRESSED-AIR

WEDGE OR EXPANSION ANCHOR EMBEDMENT DEPTH AND TEST LOAD

SIZE	HILTI KB TZ 2 (55) ANCHORS IN CONCRETE (ESR-4266)		KB TZ 2 (55) ANCHORS IN CMU (ESR-4561)	
	MIN. EMBED (heff)	TORQUE LOAD (FT-LBS)	MIN. EMBED (heff)	TORQUE LOAD (FT-LBS)
½" DIA.	1½"	6	1½"	6
¾" DIA.	2½"	30	2½"	15
1" DIA.	3½"	40	3½"	25
1½" DIA.	4"	60	4"	35
2" DIA.	4¾"	125	4¾"	50

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA - APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.13 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER, PERMANENTLY ATTACHED SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

MECHANICAL ANCHORAGE

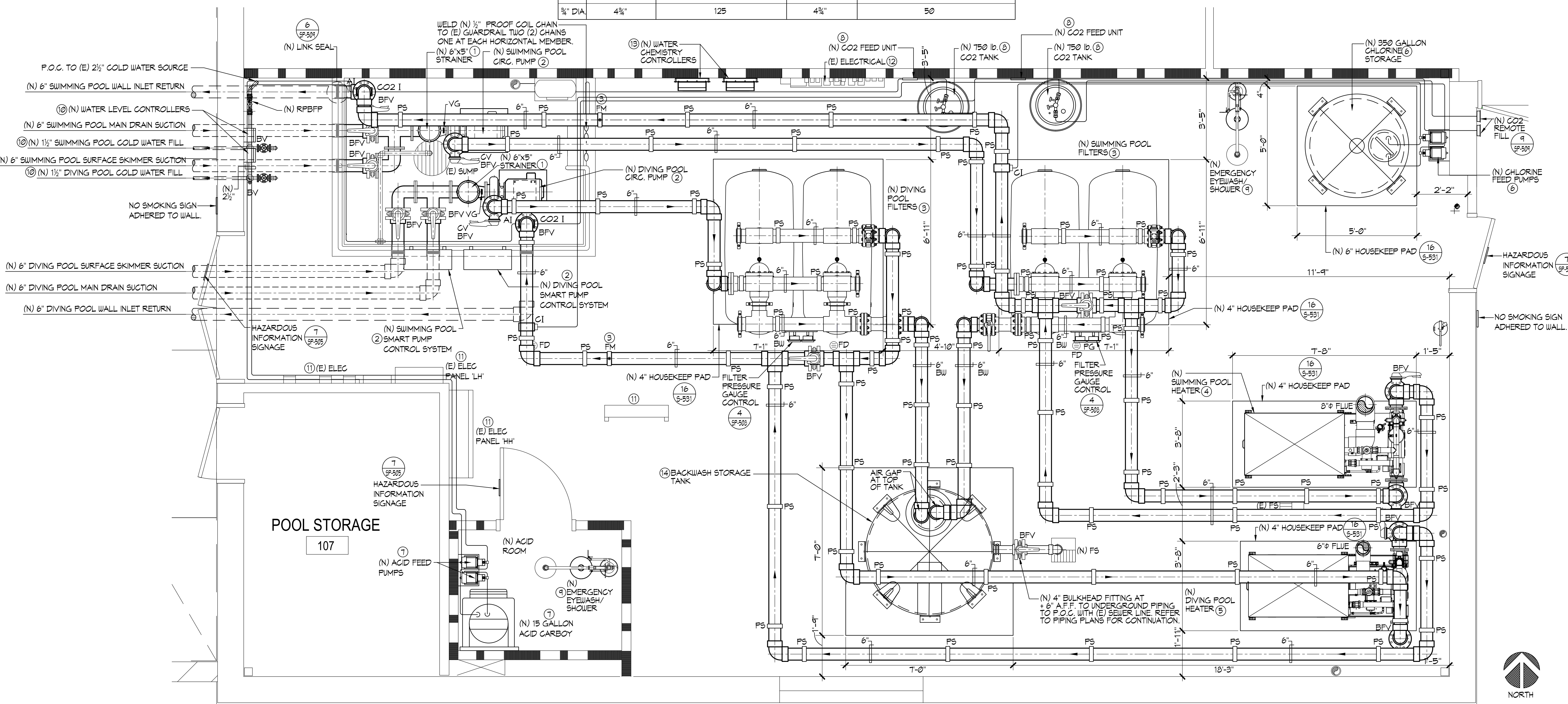
1. EXPANSION OR WEDGE ANCHORS INTO CONCRETE: HILTI KB TZ 2 (ICC ESR-4266) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
2. EXPANSION OR WEDGE ANCHORS INTO MASONRY: HILTI KB TZ 2 (ICC ESR-4561) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
3. FASTENERS SHALL BE STAINLESS STEEL FOR EXTERIOR USE OR WHEN EXPOSED TO WEATHER, PROVIDE GALVANIZED CARBON STEEL ANCHORS AT OTHER LOCATIONS, UNLESS OTHERWISE NOTED.
4. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOUCEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT WITH CONCRETE STRENGTH EQUAL TO OR GREATER THAN BASE MATERIAL. IF THE ANCHOR OR DOUCEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE STRUCTURAL ENGINEER WILL DETERMINE A NEW LOCATION.
5. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.
6. ANCHORS SHALL BE PROOF-TESTED BY OWNER'S TESTING AND INSPECTION AGENCY.
7. TEST ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATION.
8. APPLY TEST LOAD BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION OF THE ANCHOR SUCH AS DIRECT FILL WITH A HYDRAULIC JACK, TORQUE WRENCH, OR CALIBRATED SPRING TESTING DEVICES, ETC.
9. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY A BASE PLATE OR OTHER FIXTURE. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE THE FIXTURE PRIOR TO TESTING.
10. UNLESS OTHERWISE NOTED, PROVIDE MINIMUM EMBEDMENT OF ANCHORS AS SHOWN IN TABLES BELOW.
11. TEST 50% OF ANCHORS PER ONE OF THE FOLLOWING METHODS AND IN ACCORDANCE WITH THE VALUES SHOWN IN THE TABLE.
 - A. HYDRAULIC RAM METHOD: APPLY PROOF TEST LOAD WITHOUT REMOVING THE NUT, IF IT IS NOT POSSIBLE TO TEST WITH THE NUT INSTALLED, REPLACE THE NUT WITH A THREADED COUPLER TO THE LOAD, ANCHOR IS ACCEPTABLE IF NO MOVEMENT IS OBSERVED AT THE TEST LOAD, MOVEMENT MAY BE DETERMINED WHEN THE WASHER UNDER THE NUT BECOMES LOOSE.
 - B. TORQUE WRENCH METHOD: TEST ANCHORS TO THE TORQUE LOAD INDICATED IN THE TABLE WITH ONE-HALF TURN OF THE NUT.
12. IF ANY ANCHOR FAILS TESTING, REPLACE ANCHOR AND TEST ADDITIONAL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE TESTS PASS, THEN RESUME INITIAL TESTING FREQUENCY. CDD WILL BE REQUIRED.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, 1617A.1.26.

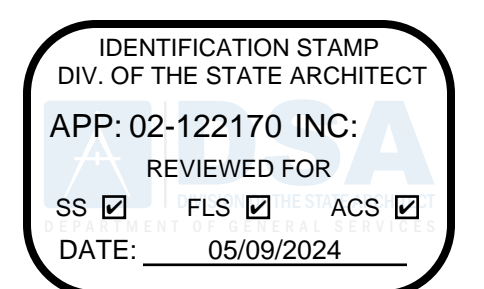
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E),
 MP □ MD □ PP □ E □ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. SEE S-951.



MECHANICAL ROOM LAYOUT PLAN

1/4"=1'-0"



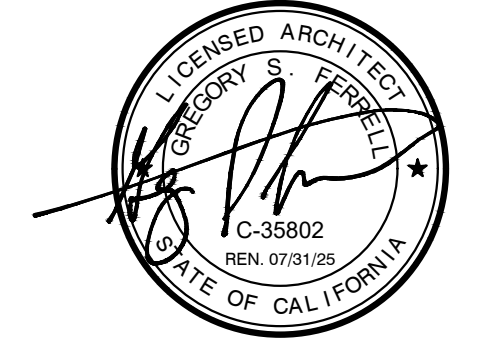
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TITLE
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 LAYOUT PLAN**

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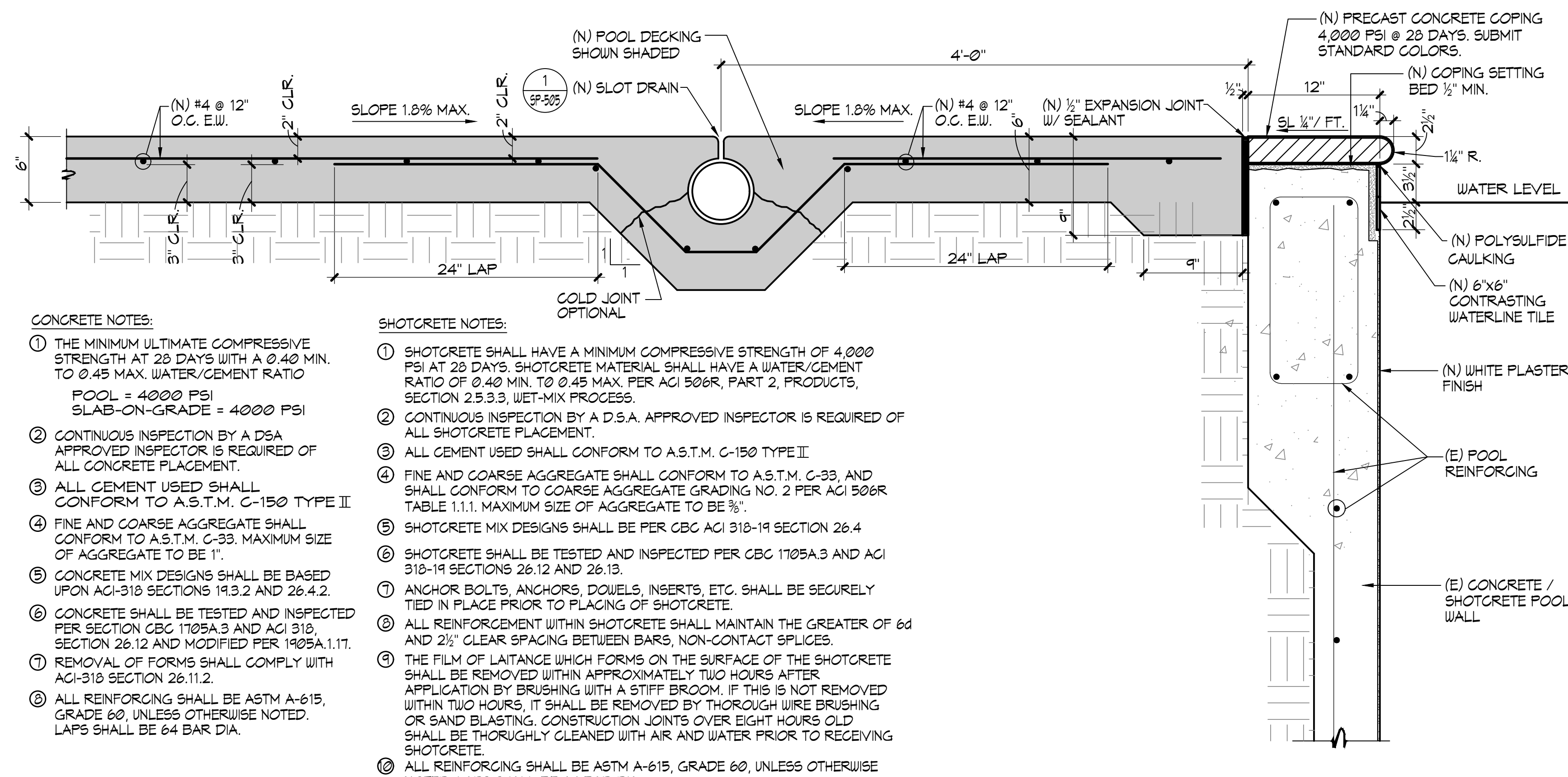
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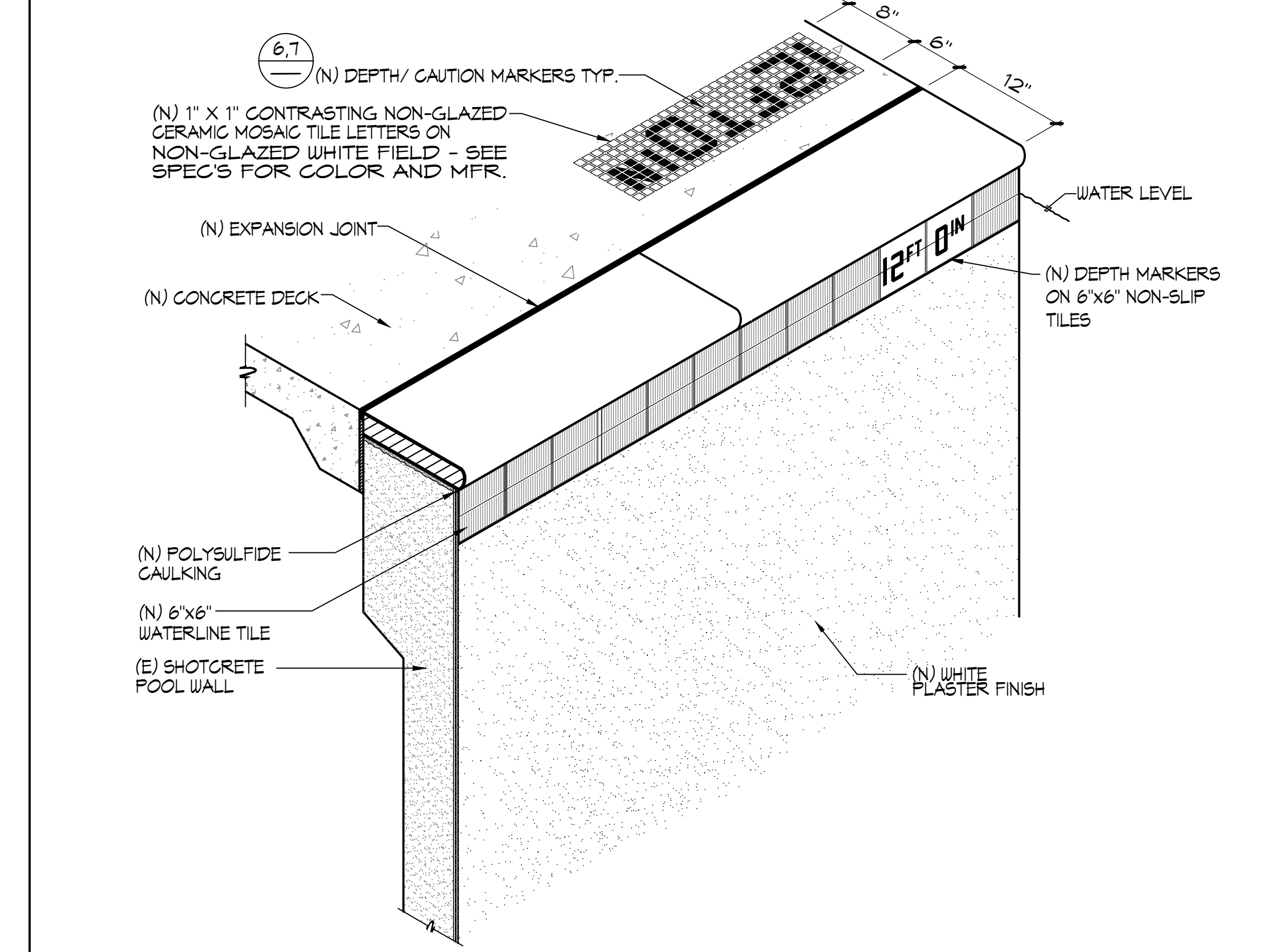
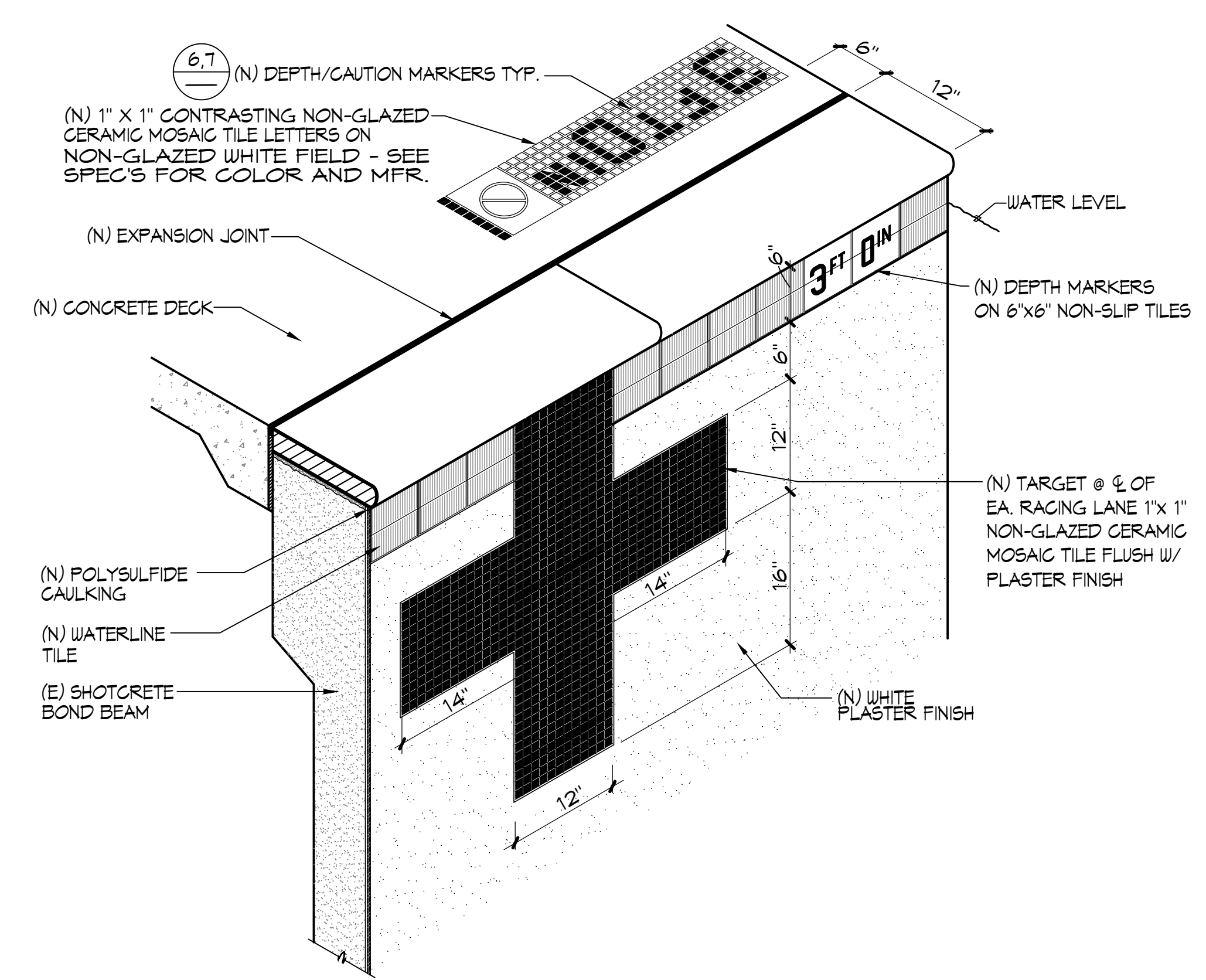
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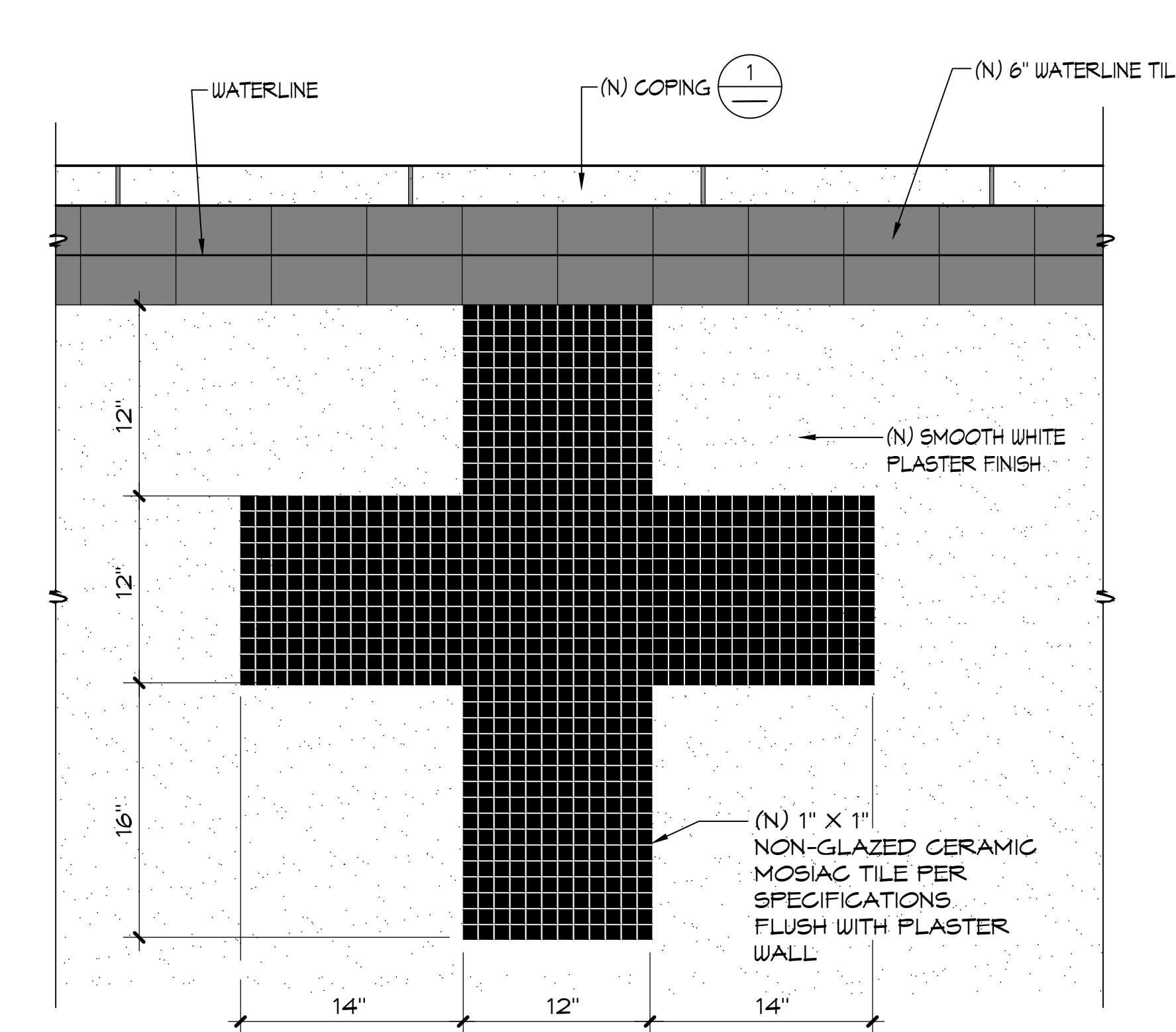


1 TYPICAL SWIMMING POOL DECK DETAIL 1/2" = 1'-0"

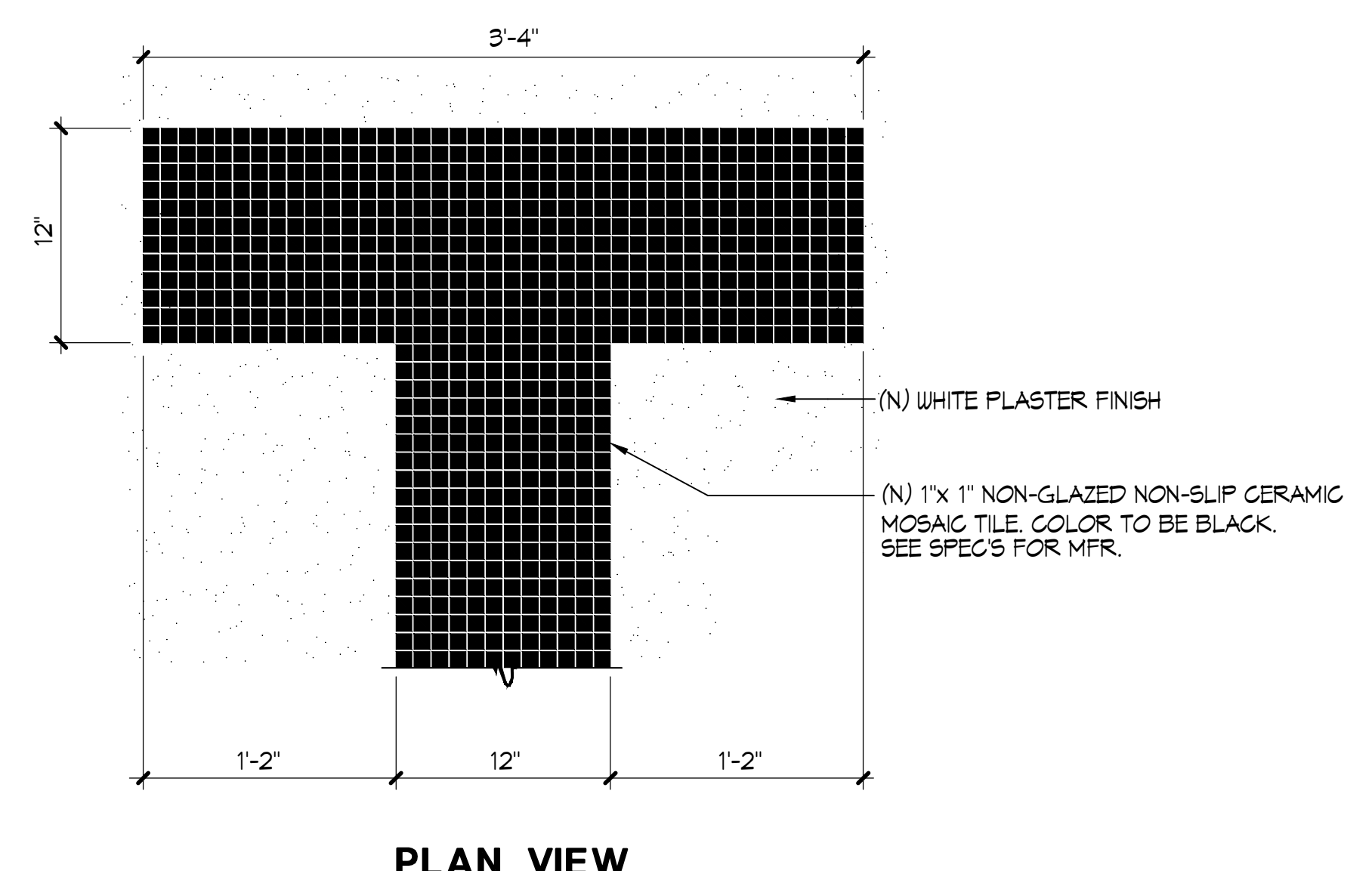


2 TYPICAL SWIMMING POOL COPING PERSPECTIVE 1/2" = 1'-0"

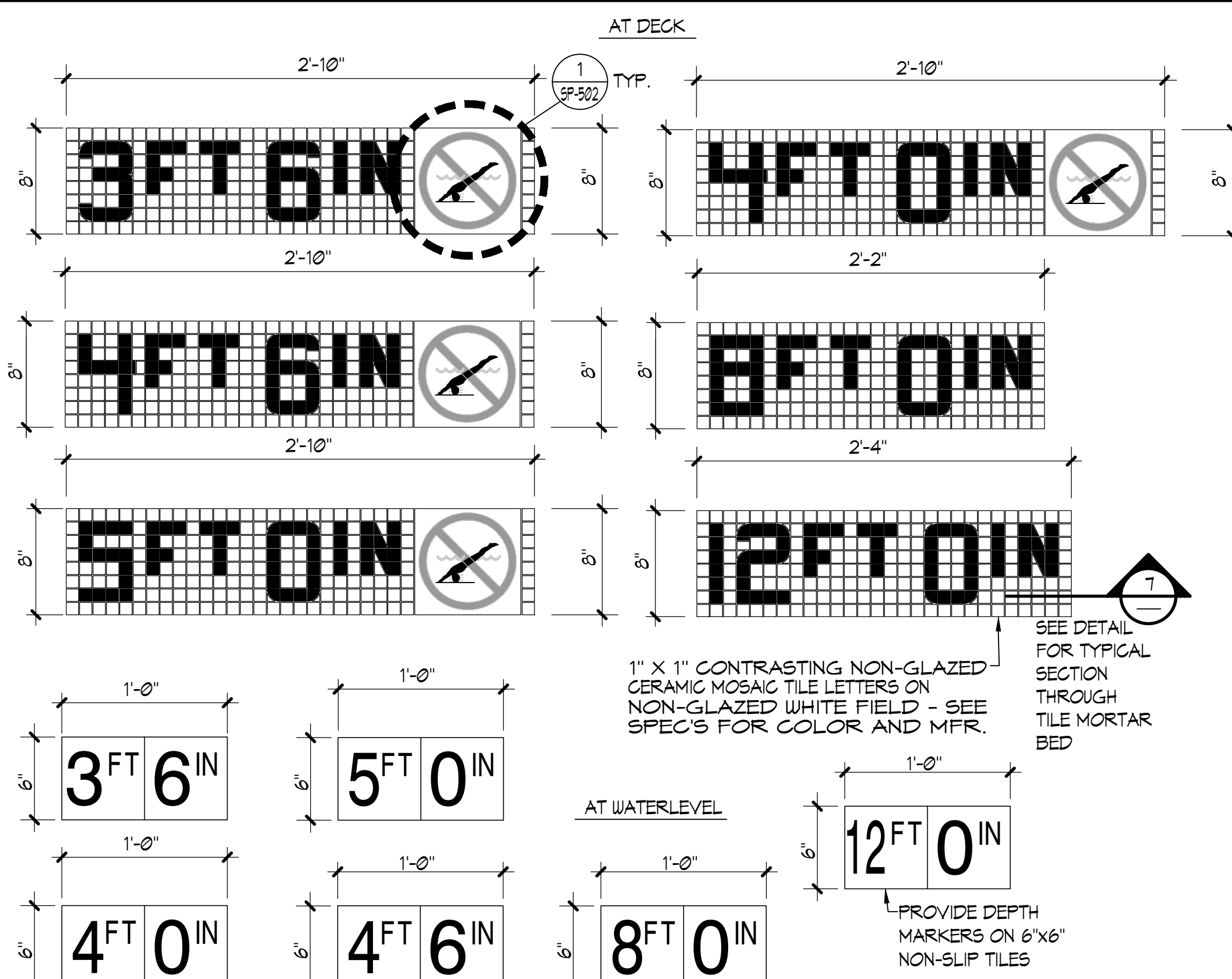
3 TYPICAL DIVING POOL COPING PERSPECTIVE 1/2" = 1'-0"



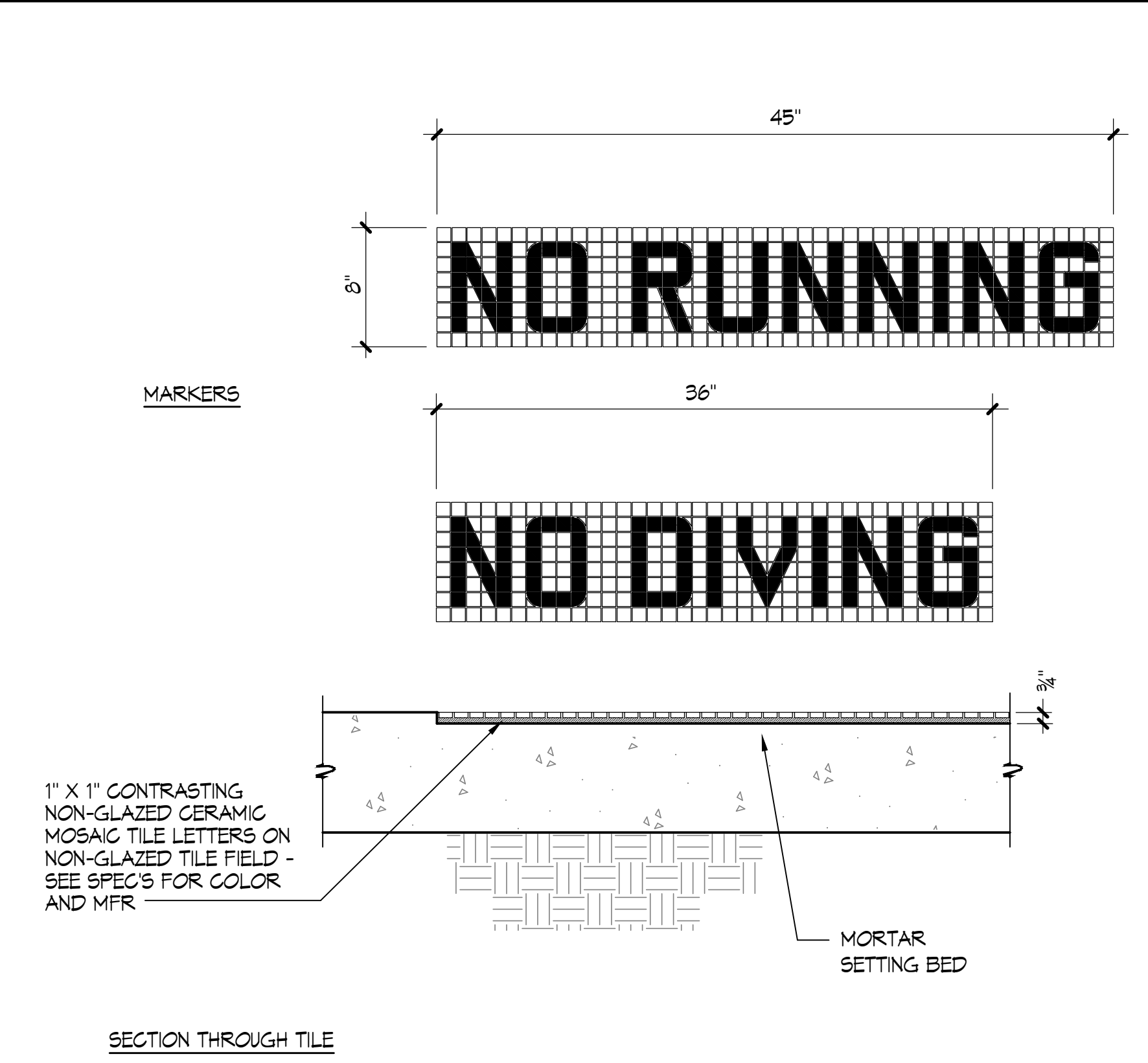
4 END WALL TARGET 1/2" = 1'-0"



5 RACING LANE LINE 1/2" = 1'-0"



6 DEPTH MARKERS 1/2" = 1'-0"



7 "NO RUNNING" / "NO DIVING" MARKERS 1/2" = 1'-0"

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APP: 02-122170 INC.
REVIEWED FOR:
SS [] FLS [] ACS []
DATE: 05/09/2024

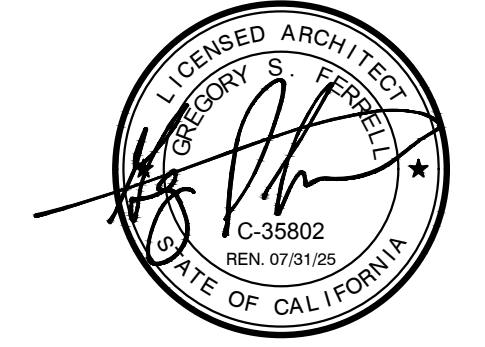
LIONAKIS

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CONSULTANT

AQUATIC
DESIGN GROUP
2226 Faraday Ave., Carlsbad, CA 92008
AquaticDesignGroup.com
760.438.8400

SEAL



PROJECT
**JOHN F KENNEDY HIGH SCHOOL
SWIMMING POOL UPGRADE**

6715 GLORIA DR
SACRAMENTO, CA 95831

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

ISSUED	MARK	DATE	DESCRIPTION

MANAGEMENT	
LIONAKIS PROJECT NO.	200002
CLIENT PROJECT NO.	700.00.007
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TITLE
DETAILS

SHEET
SP-501

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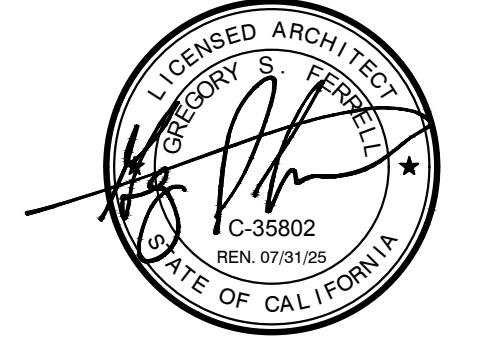
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SEAL



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JOHN F KENNEDY HIGH SCHOOL SWIMMING POOL UPGRADE

6715 GLORIA DR
SACRAMENTO, CA 95831

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

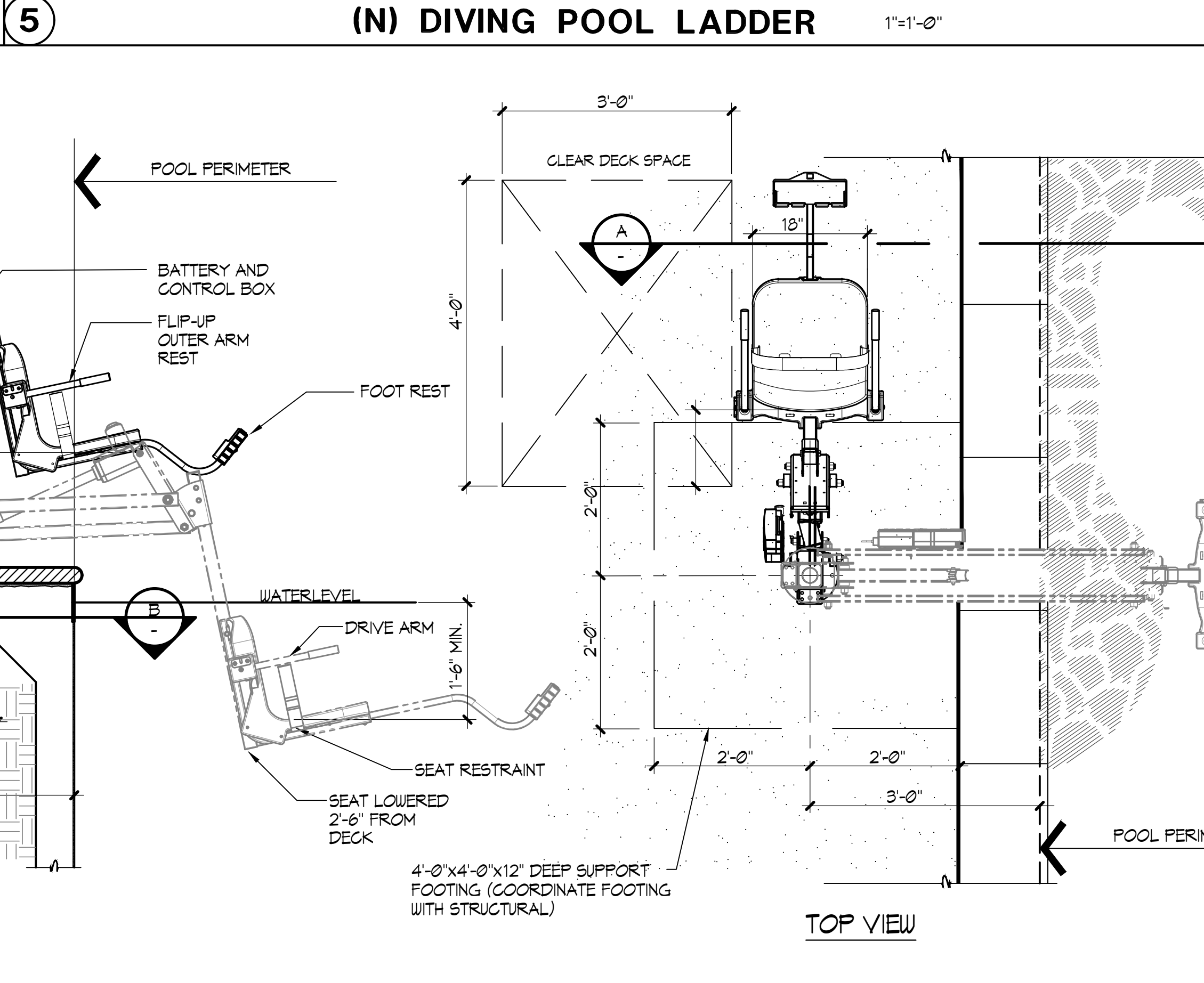
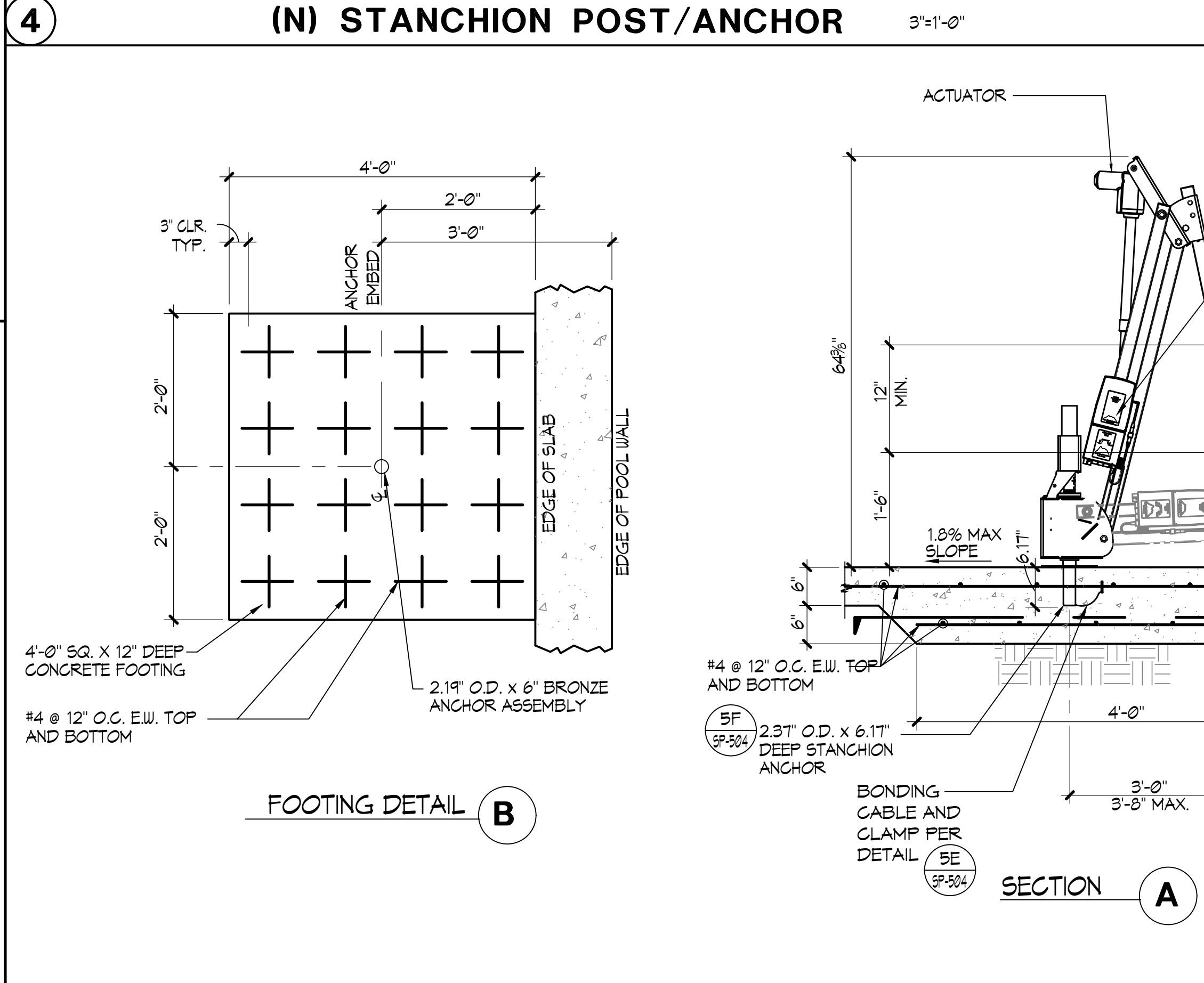
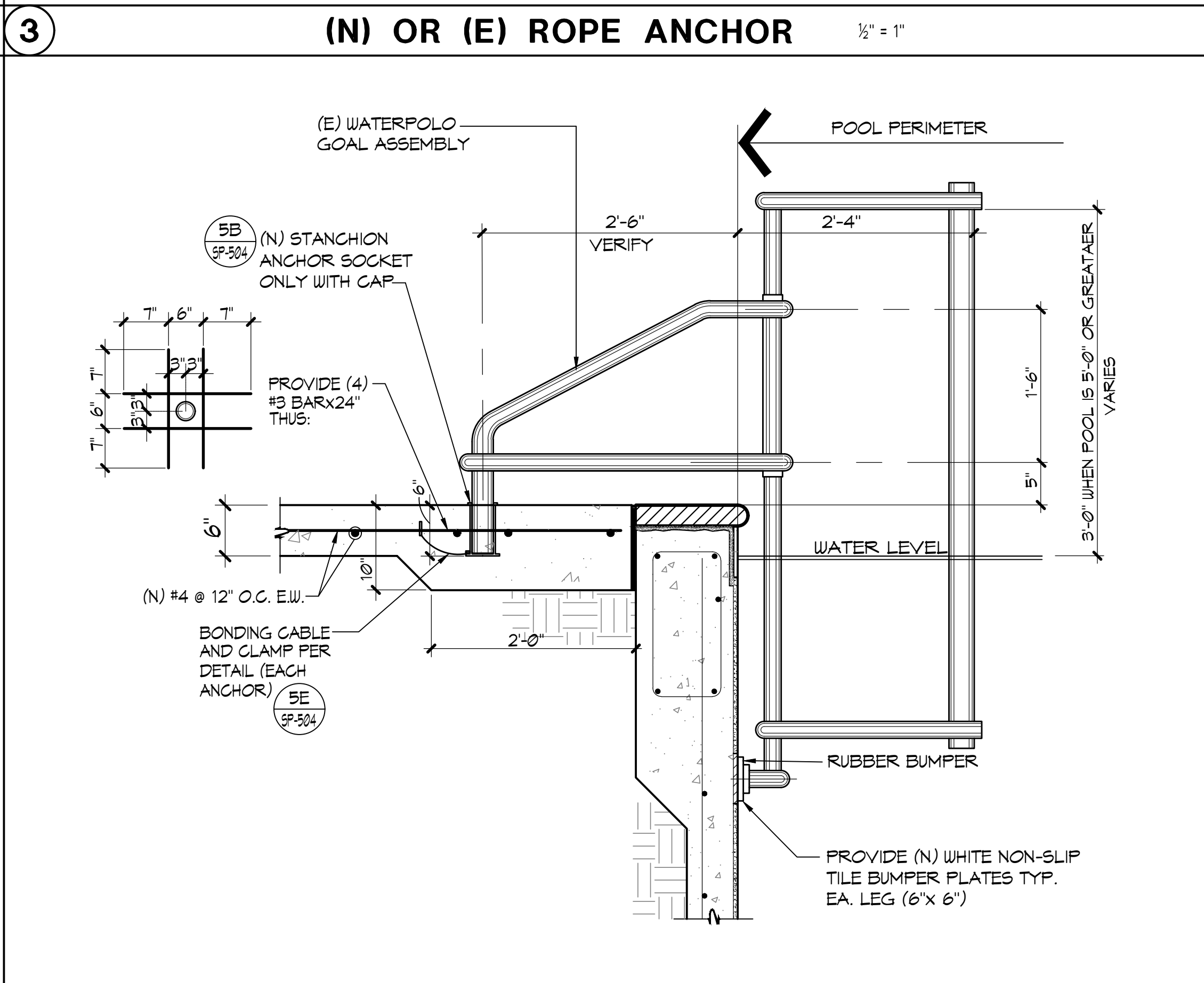
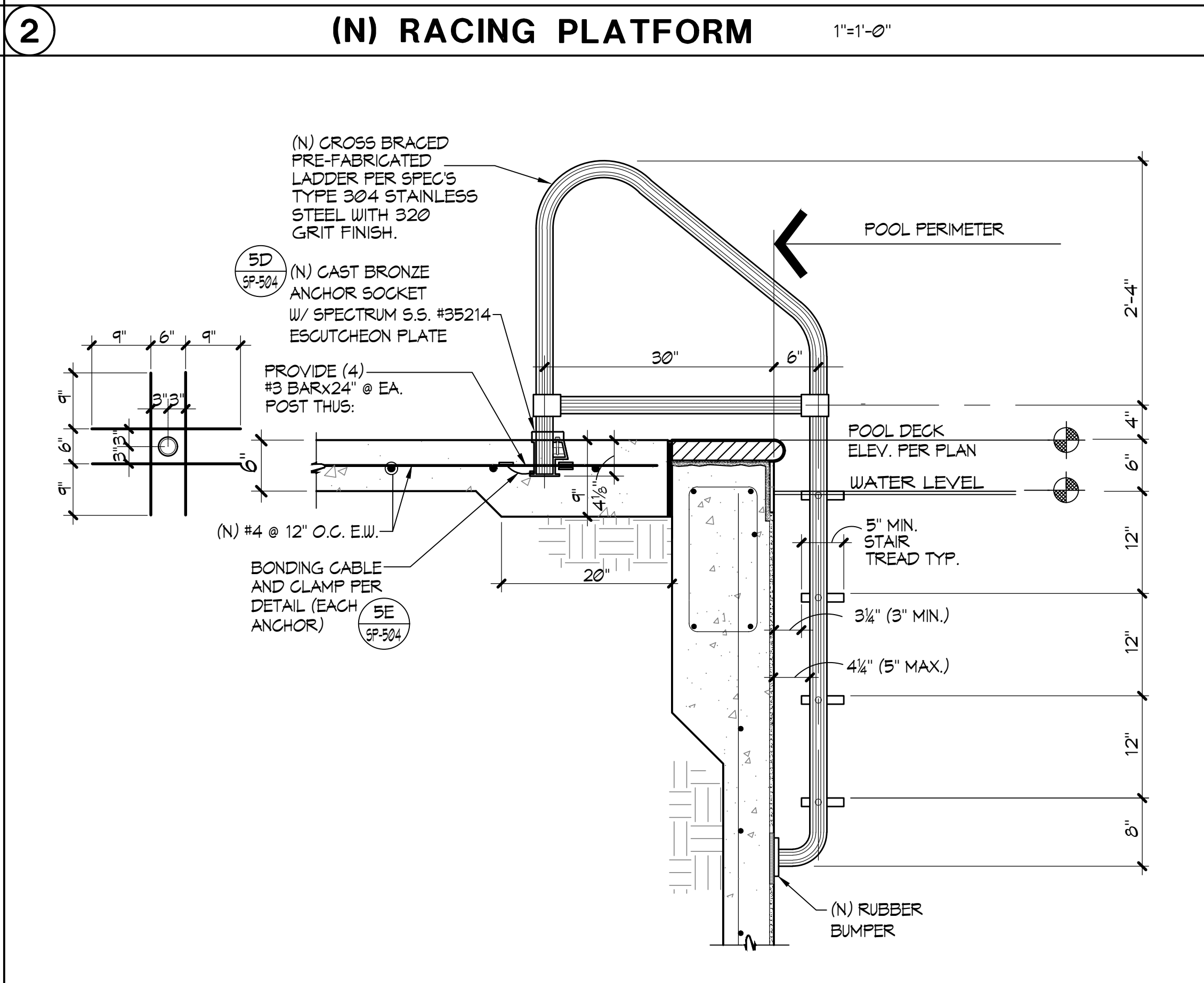
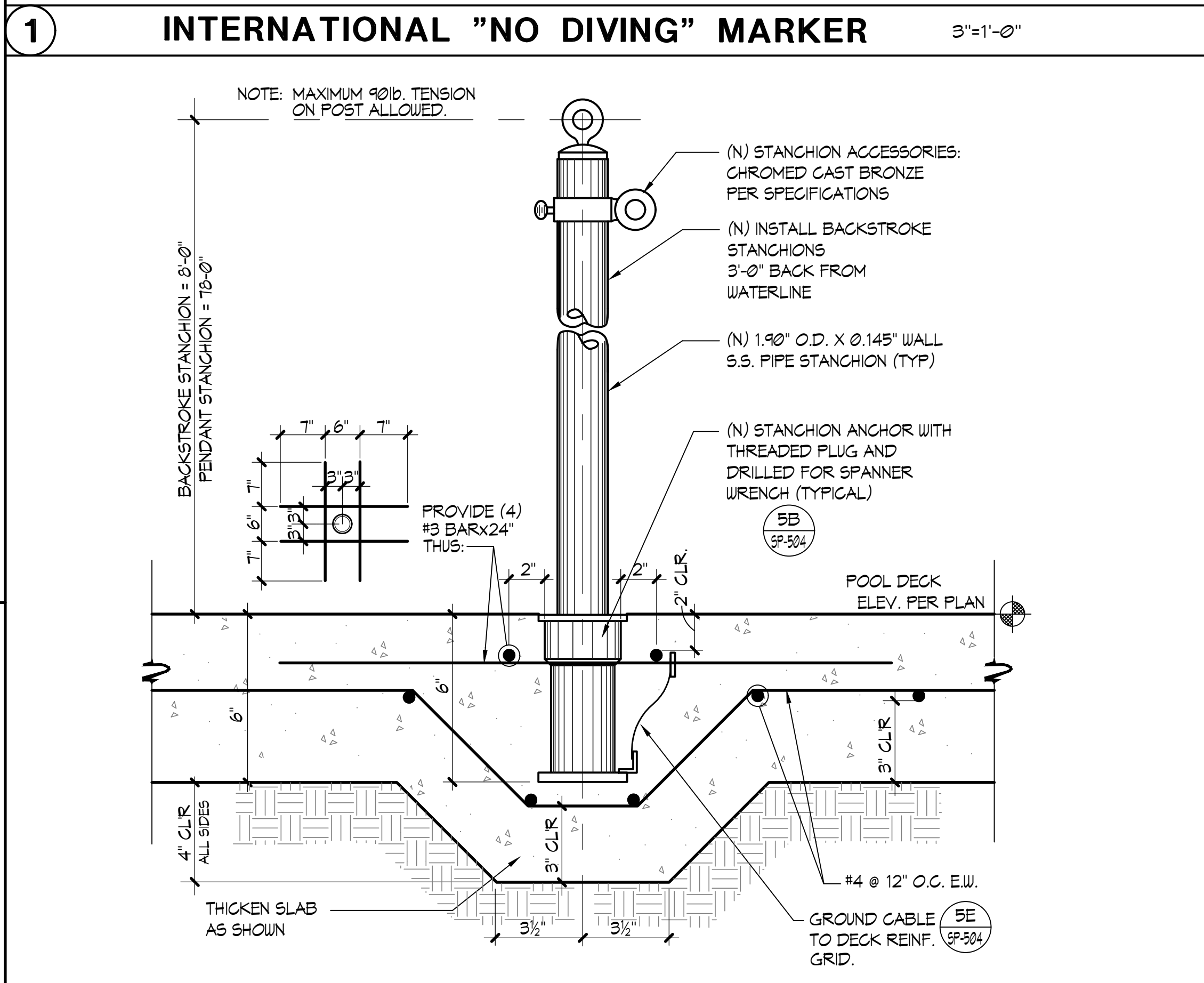
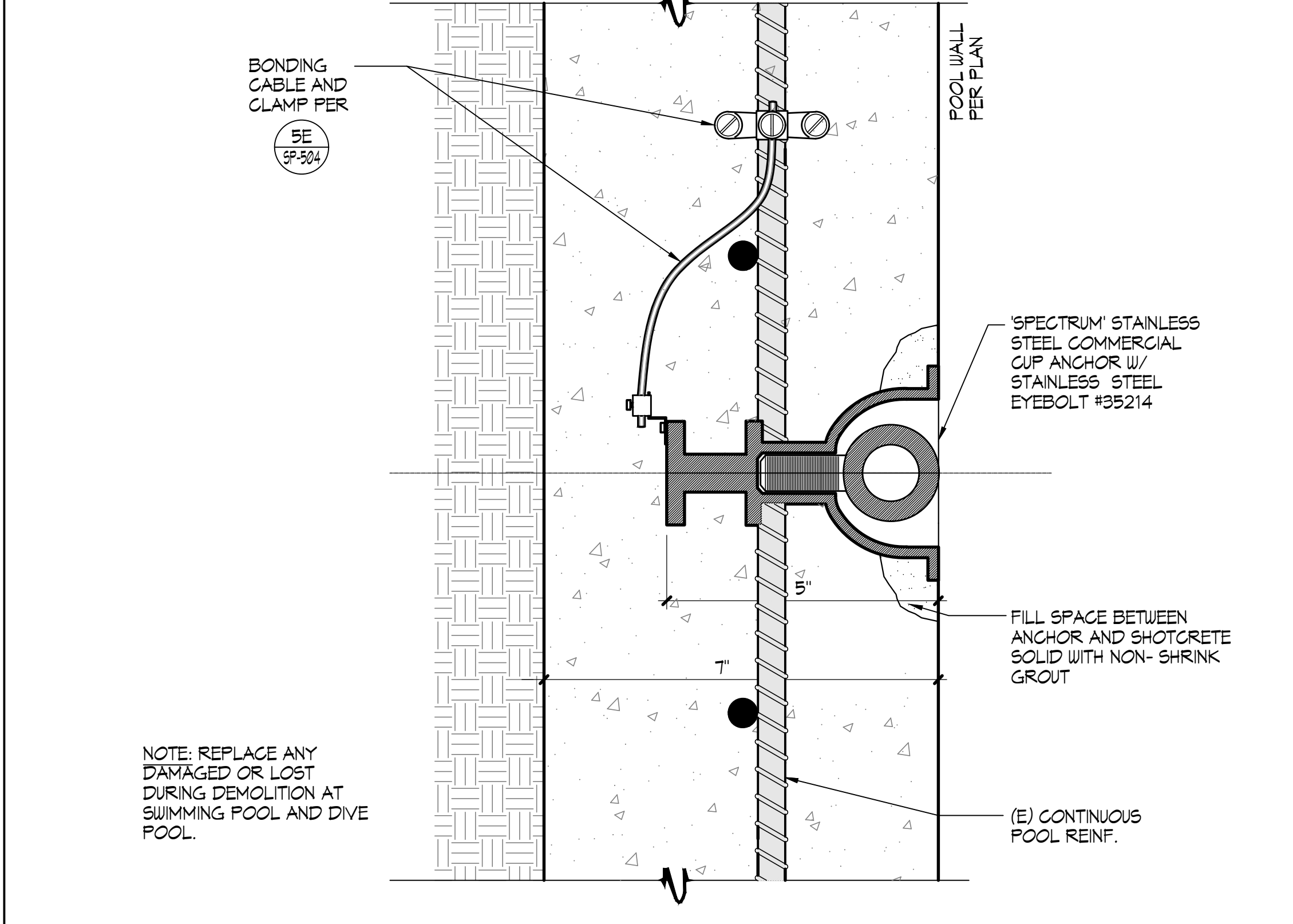
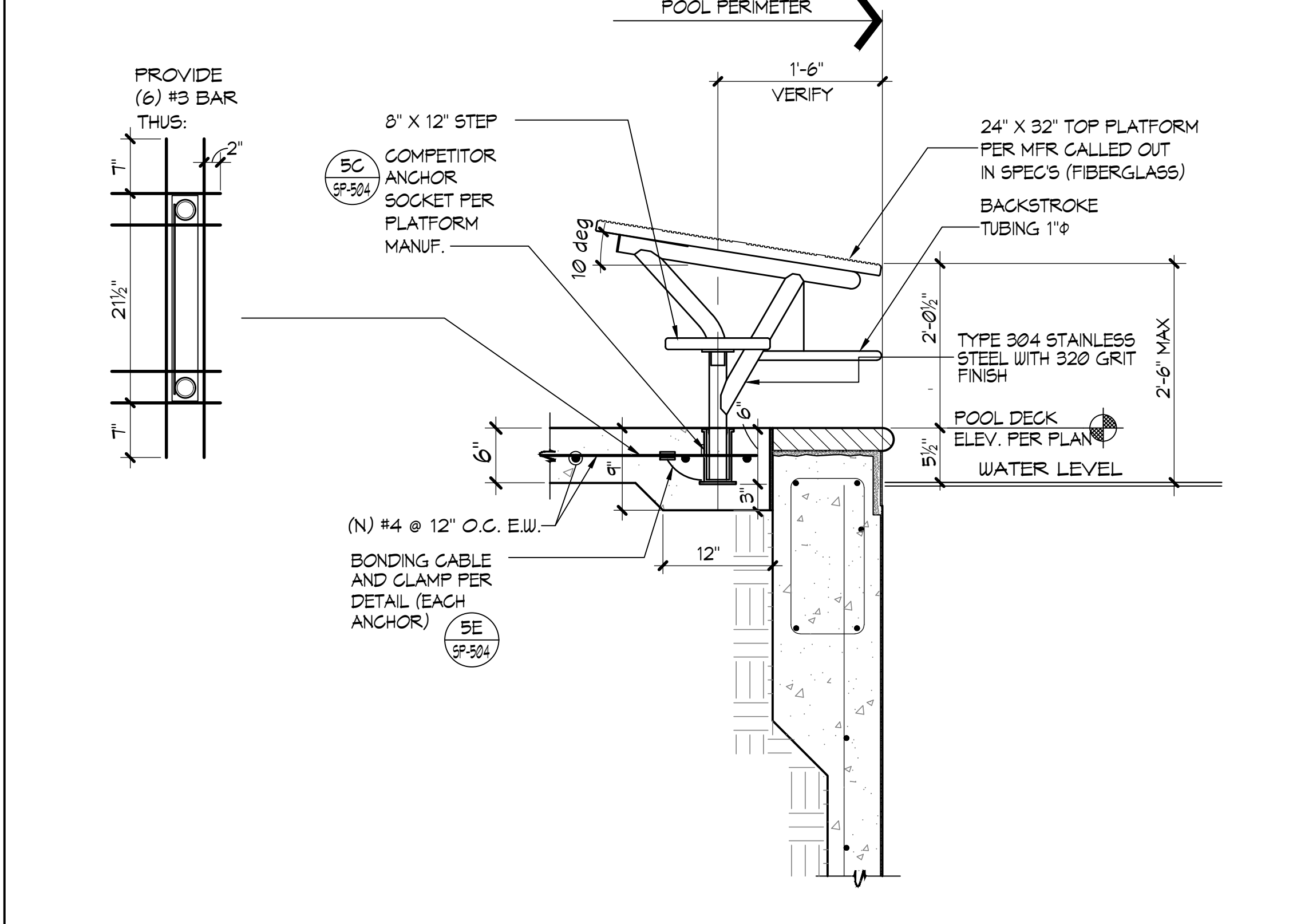
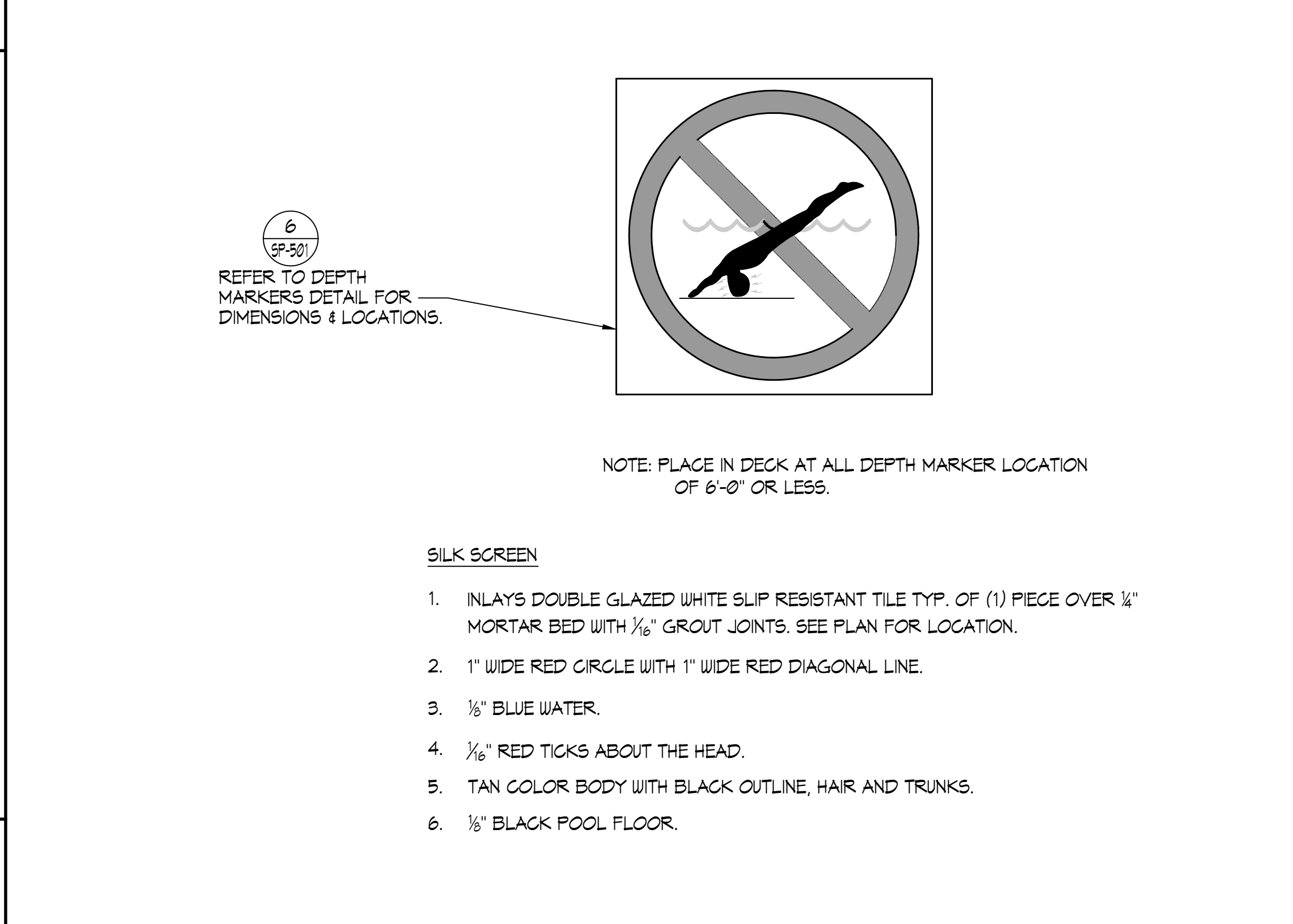
MARK	DATE	DESCRIPTION

MANAGEMENT	
LIONAKIS PROJECT NO.	700007
CLIENT PROJECT NO.	7000.00.007
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TITLE
DETAILS

SHEET

SP-502



NOTES:

- AQUA CREEK MIGHTY 400 F-MTY-400 (350 lbs. MIN. LIVE LOAD AND 400 lbs. MAX. LIFTING CAPACITY)
- GUSSET COVER PLATE TO BE ATTACHED REQUIRING A TOOL FOR REMOVAL.
- CONTRACTOR SHALL PROVIDE COVER FOR LIFT 'AQUA CREEK'; EXTRA BATTERY PACK 'AQUA CREEK' #F-004AB, AND TRANSPORTER CART 'AQUA CREEK' #F-MTC.
- UTILIZE OUTLET IN OFFICE FOR DISABLED LIFT BATTERY CHARGE STATION.
- POOL LIFT SHALL BE LOCATED WHERE THE WATER LEVEL IS AT LEAST 36" AND DOES NOT EXCEED 48" DEEP, UNLESS ENTIRE POOL IS GREATER THAN 48" DEEP. (CBC SECTION 11B-1009.2.1)
- ON THE RAISED POSITION, THE CENTERLINE OF THE SEAT SHALL BE LOCATED OVER THE DECK AND 16" MINIMUM FROM THE EDGE OF THE POOL. THE DECK SURFACE BETWEEN THE CENTERLINE OF THE SEAT AND THE POOL EDGE SHALL HAVE A 2% MAX. SLOPE. (CBC SECTION 11B-1009.2.2)
- CLEAR DECK SPACE SHALL BE PROVIDED ON SIDE OF SEAT OPPOSITE THE WATER PARALLEL TO THE WATER 36" WIDE X 48" MINIMUM FROM A LINE LOCATED 12" BEHIND THE REAR EDGE OF THE SEAT. THE CLEAR SPACE SHALL HAVE A 2% MAX. SLOPE. (CBC SECTION 11B-1009.2.3)
- THE HEIGHT OF THE LIFT SEAT SHALL BE DESIGNED TO ALLOW A STOP AT 17" MIN. TO 19" MAX. MEASURED FROM THE DECK TO THE TOP OF THE SEAT SURFACE WHEN IN THE RAISED POSITION. (CBC SECTION 11B-1009.2.4)
- THE SEAT SHALL BE RIGID AND 17" MIN. TO 19" MAX. WIDE. THE LIFT SEAT SHALL HAVE A BACK SUPPORT 12" MIN. TALL. (CBC SECTION 11B-1009.2.4)
- FOOTRESTS SHALL BE PROVIDED, EXCEPT FOR SPA LIFTS, AND SHALL MOVE WITH THE SEAT. LIFT SHALL HAVE TWO ARMRESTS. THE ARMREST POSITIONED OPPOSITE THE WATER SHALL BE REMOVABLE OR SHALL FOLD CLEAR OF THE SEAT WHEN THE SEAT IS IN THE RAISED POSITION. (CBC SECTION 11B-1009.2.6)
- THE LIFT SHALL BE CAPABLE OF UNASSISTED OPERATION FROM BOTH THE DECK AND WATER LEVELS. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL BE UNOBSTRUCTED WHEN THE LIFT IS IN USE (CBC SECTION 11B-309.4). LIFT MUST BE STABLE AND NOT PERMIT UNINTENDED MOVEMENT WHEN A PERSON IS GETTING INTO OR OUT OF THE SEAT. (CBC SECTION 11B-1009.2.7)
- THE LIFT SHALL BE DESIGNED SO THAT THE SEAT WILL SUBMERGE TO A WATER DEPTH OF 18" MIN. BELOW THE STATIONARY WATER LEVEL. (CBC SECTION 11B-1009.2.8)
- LIFT SEAT MUST HAVE AN OCCUPANT RESTRAINT FOR USE BY THE OCCUPANT OF THE SEAT AND THE RESTRAINT MUST MEET THE STANDARDS FOR OPERABLE CONTROLS IN COMPLIANCE WITH CBC SECTION 11B-1009.2.4 AND SECTION 11B-309.

(N) SWIMMING POOL ACCESSIBLE LIFT 3'-1'-0"

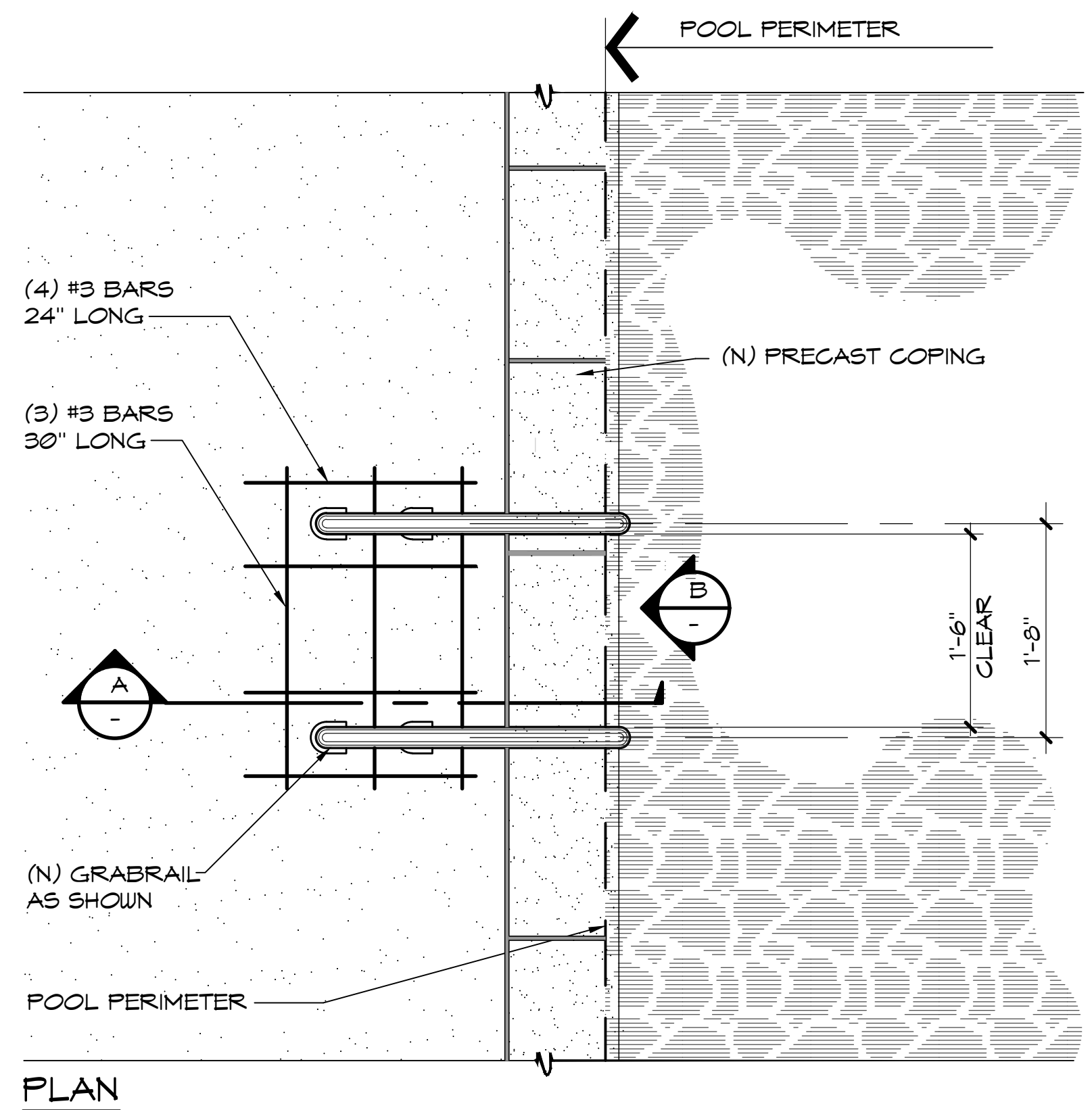
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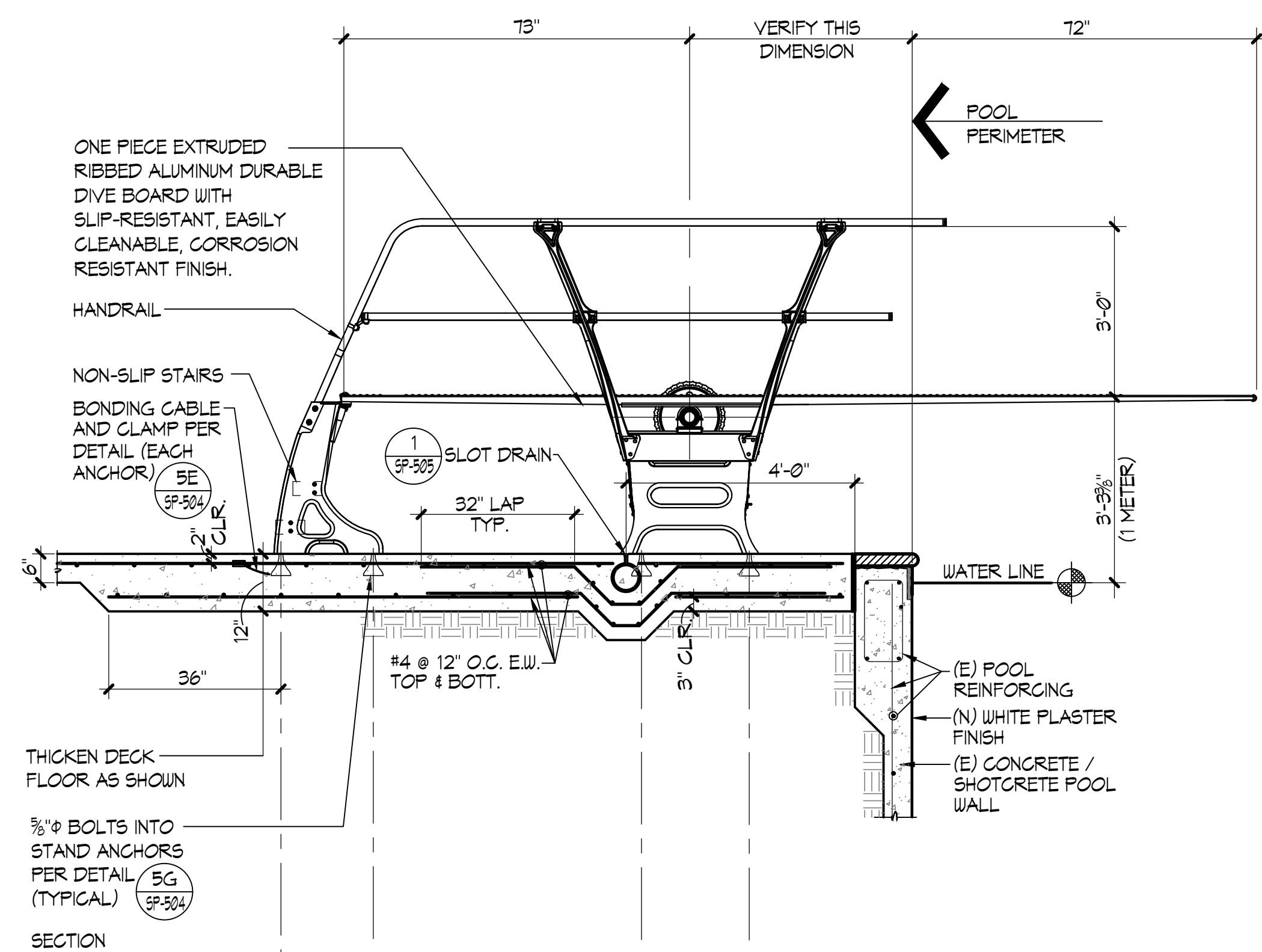
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Autodesk Docs: 022204-SCUSD_IPRHS Pool Upgrade: 022204_ARCHNSTRS_DWG_CENTRAL.rvt

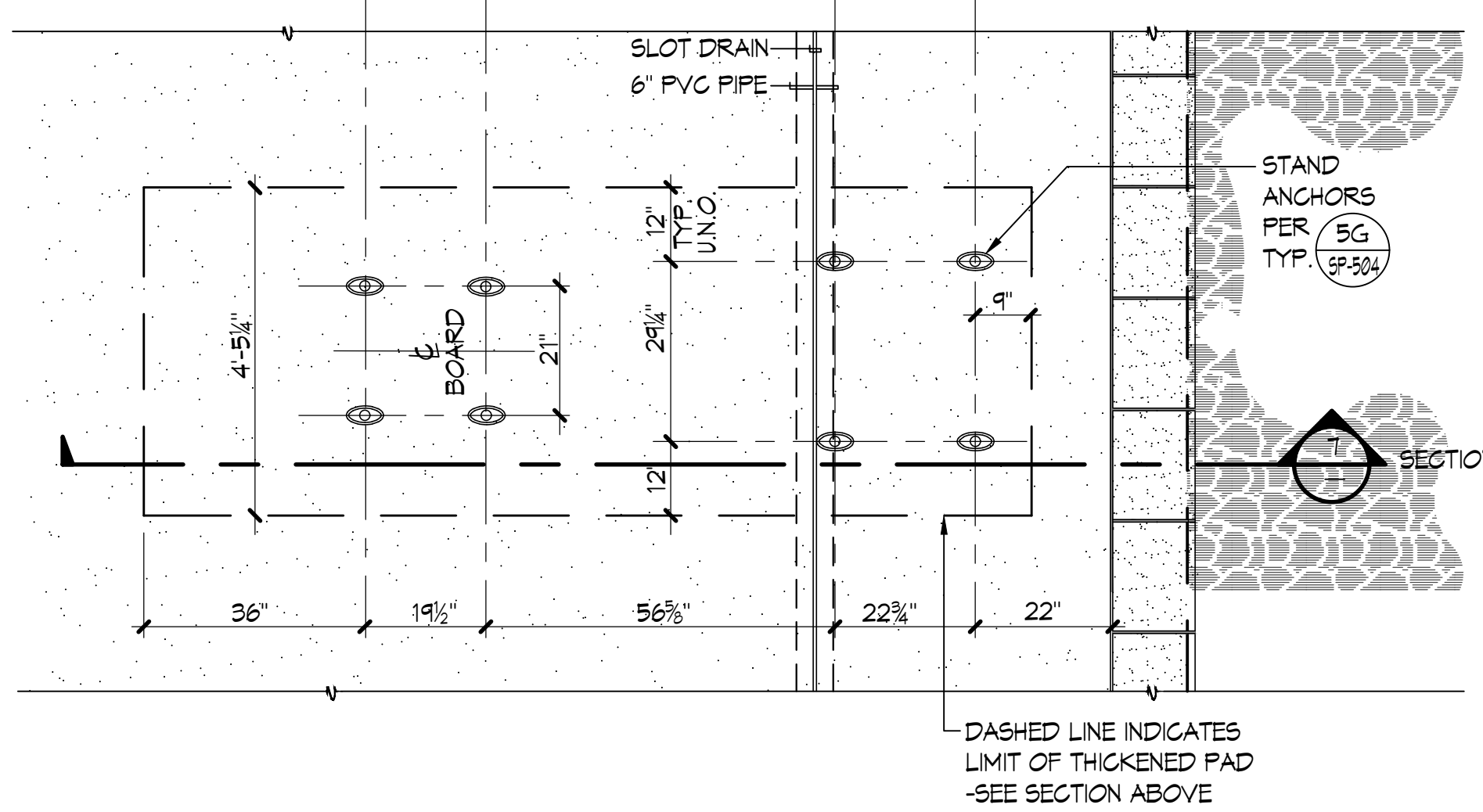
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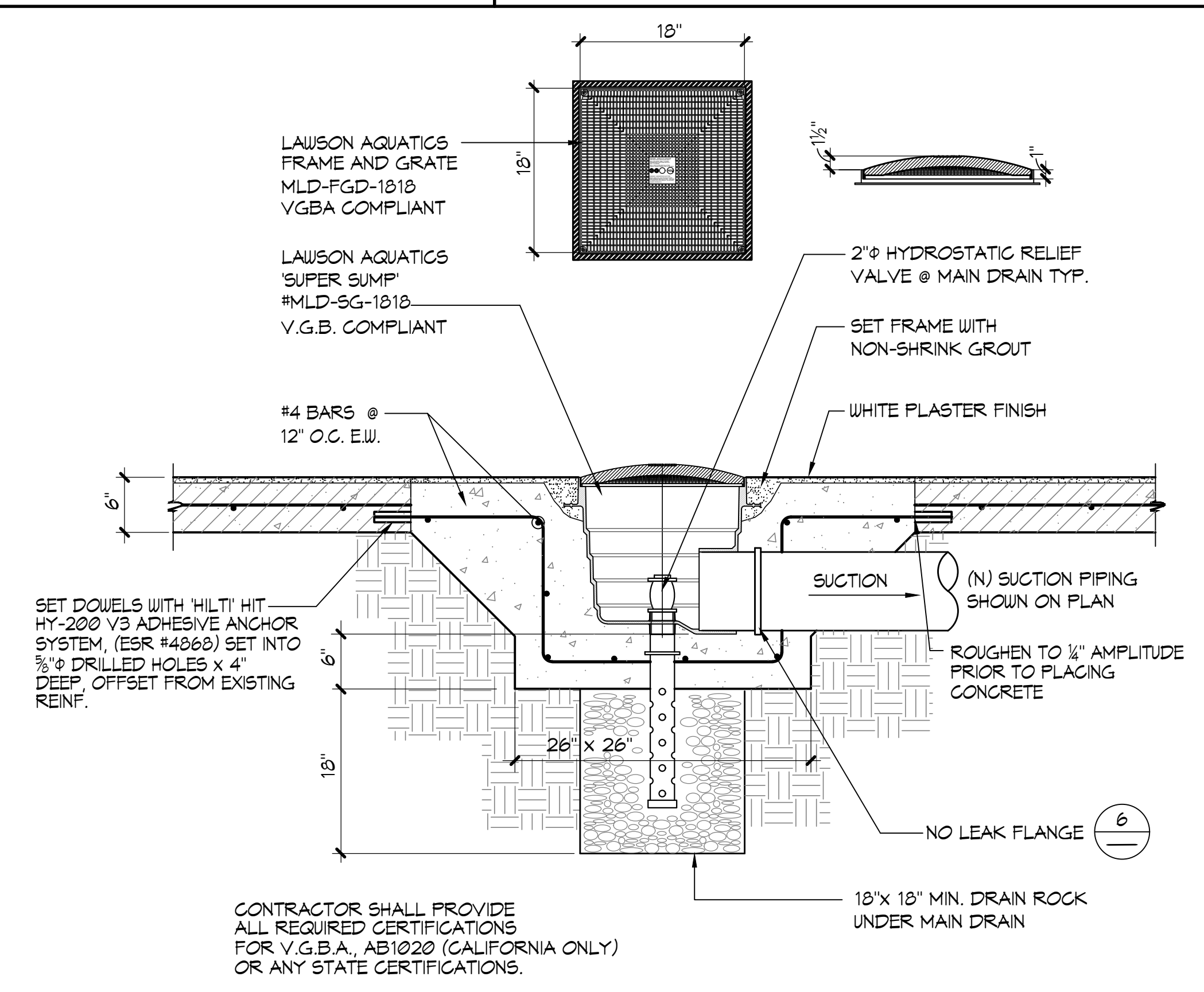
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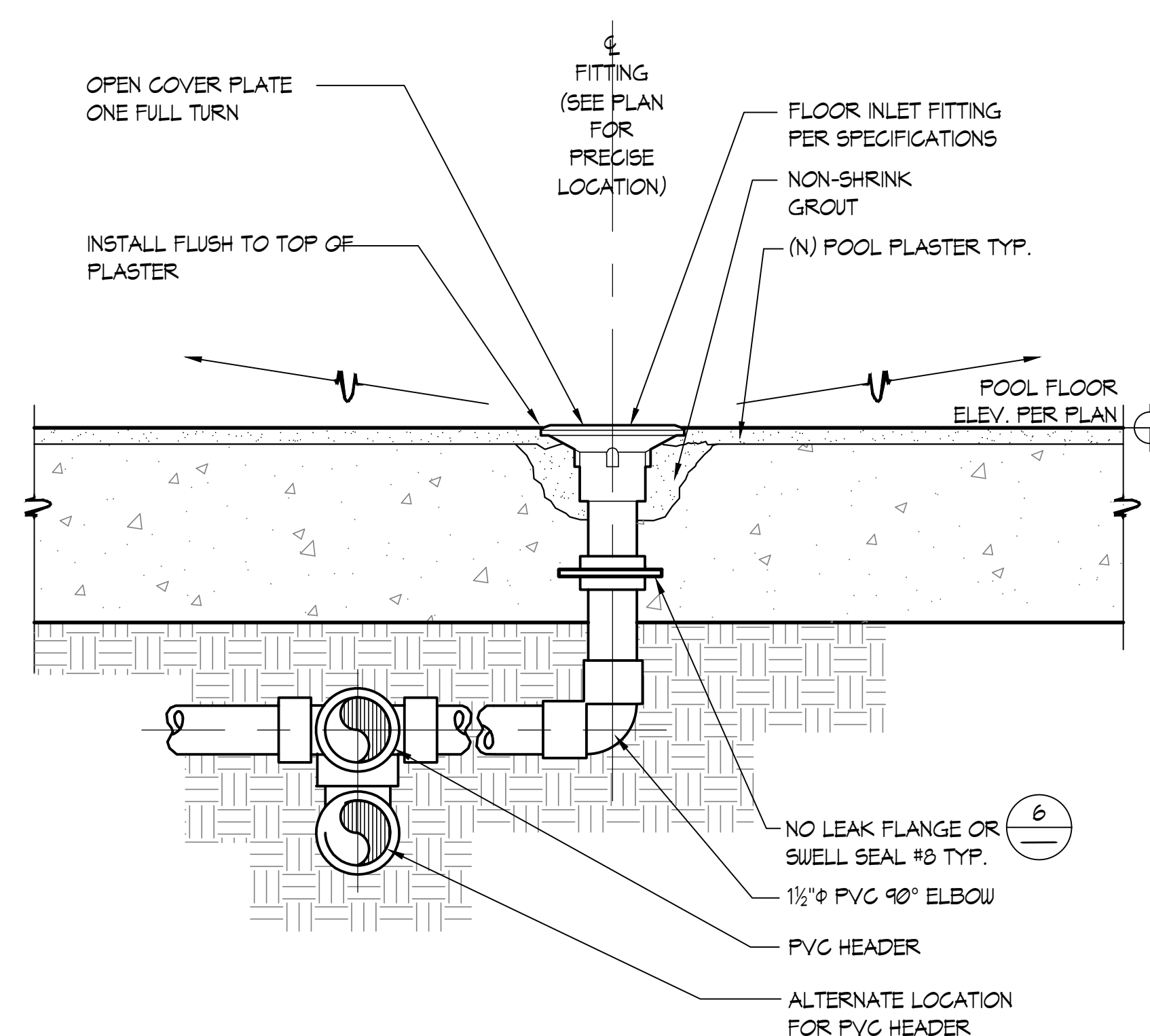
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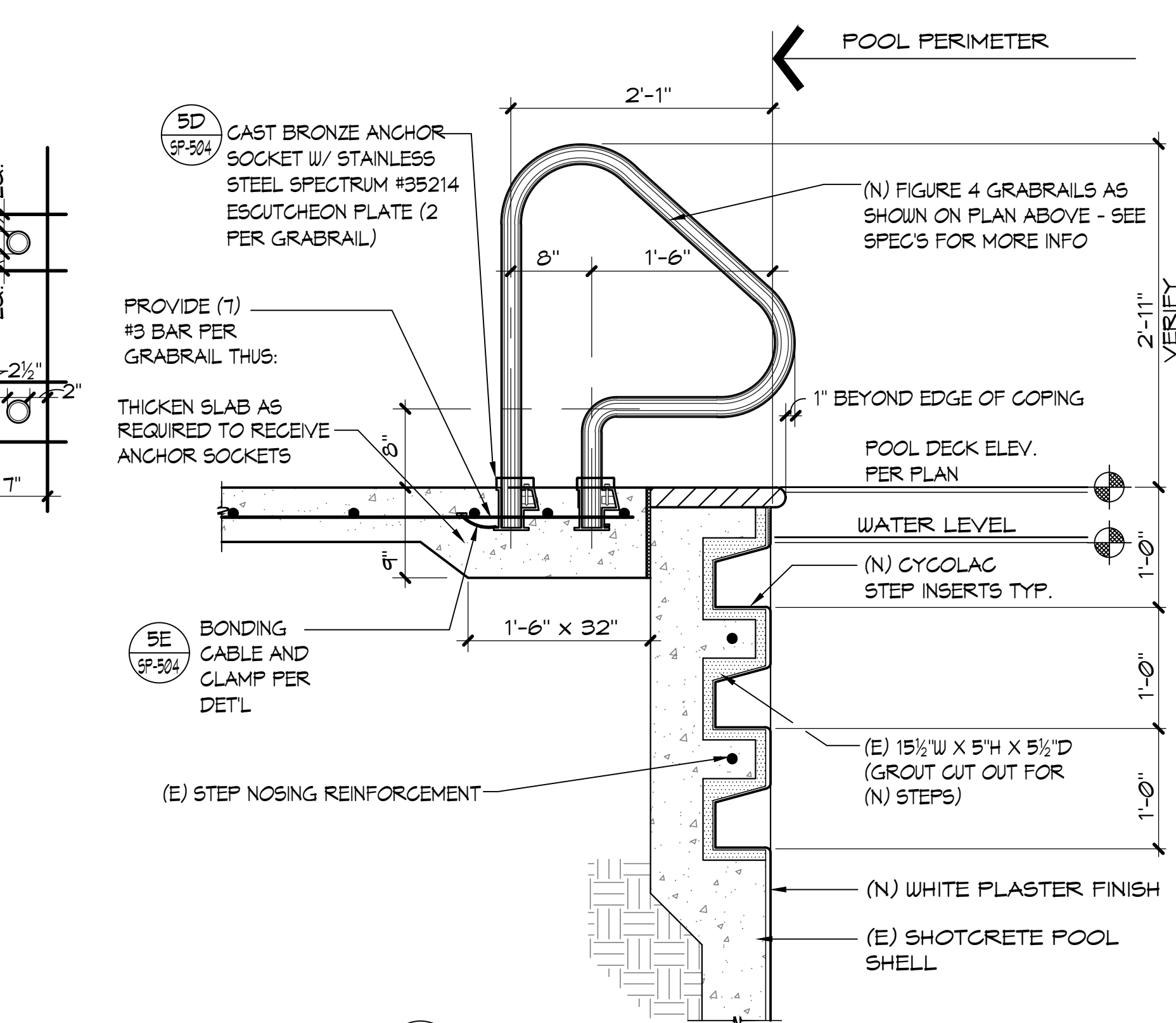
2 (N) ONE METER DIVE STAND 1/2"=1'-0"



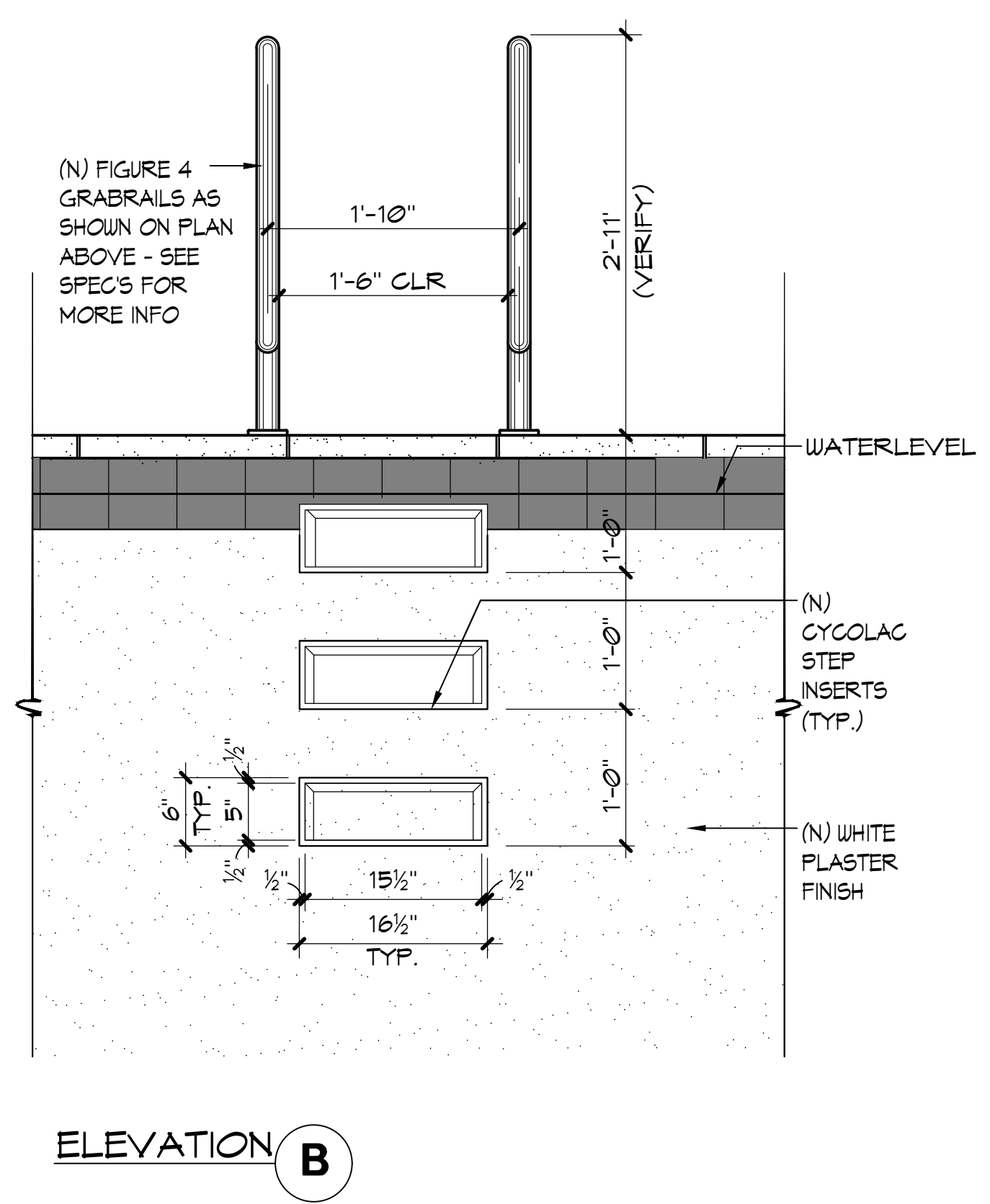
3 SWIMMING POOL / DIVING POOL MAIN DRAIN 1"=1'-0"



4 FLOOR INLET 3"=1'-0"

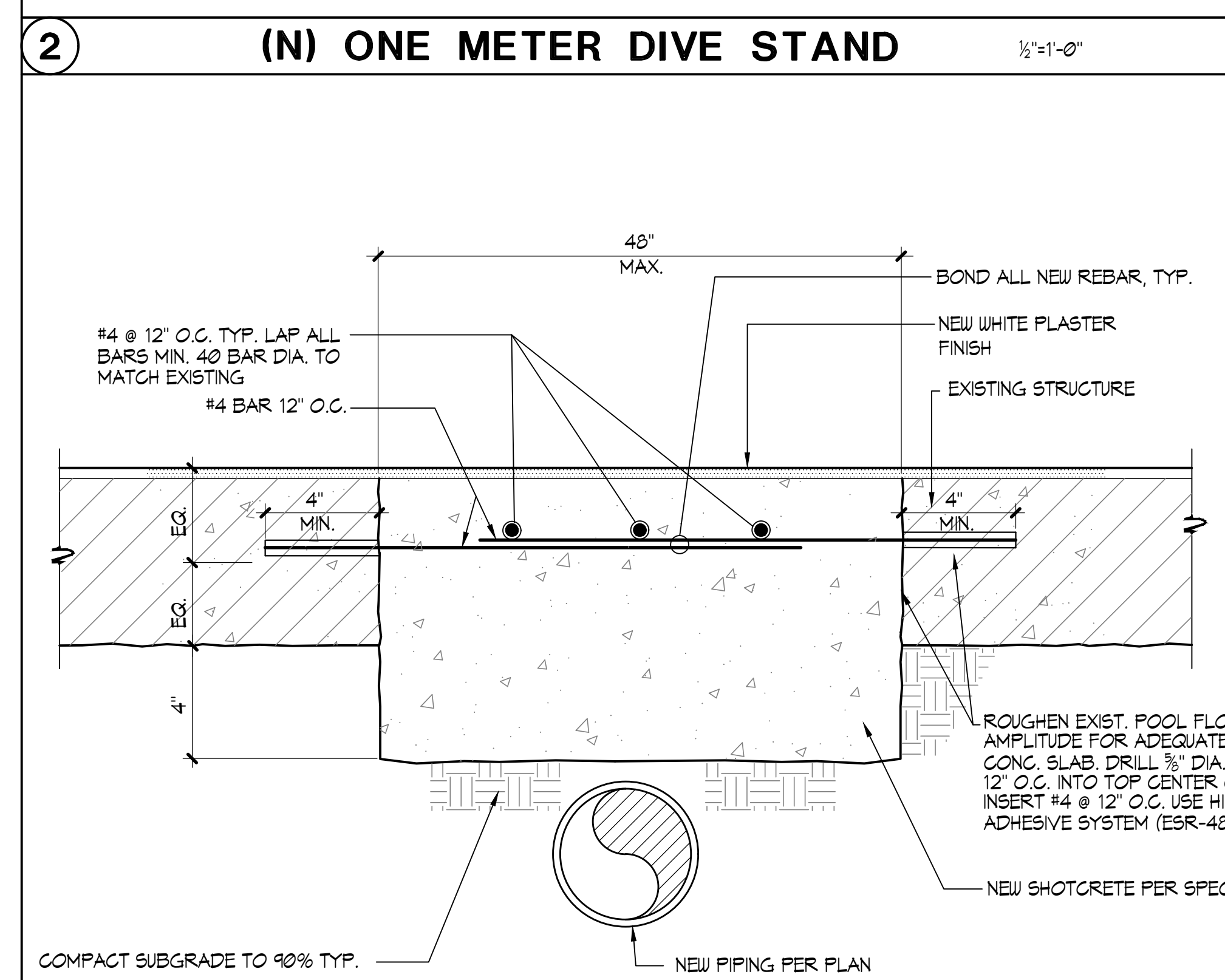


SECTION A

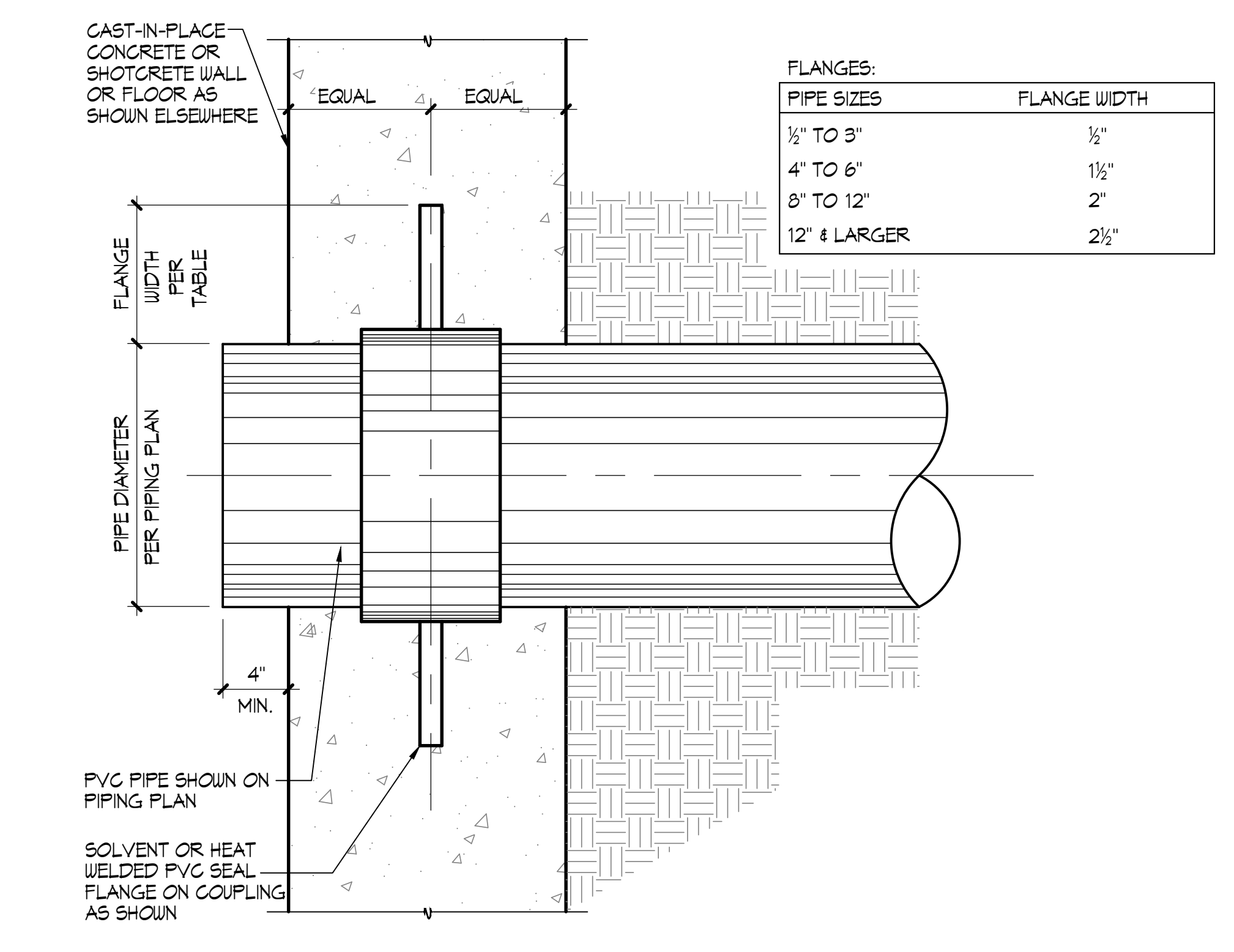


ELEVATION B

1 (N) DIVING POOL GRABRAIL WITH STEPS 1"=1'-0"



5 DEMOLITION/PIPING DETAIL 3"=1'-0"



6 WATER STOP DETAIL NO SCALE

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CONSULTANT

PROJECT
JOHN F KENNEDY HIGH SCHOOL SWIMMING POOL UPGRADE
6715 GLORIA DR
SACRAMENTO, CA 95831

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

ISSUED	MARK	DATE	DESCRIPTION

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SEAL



PROJECT
JOHN F KENNEDY HIGH SCHOOL SWIMMING POOL UPGRADE

6715 GLORIA DR
SACRAMENTO, CA 95831

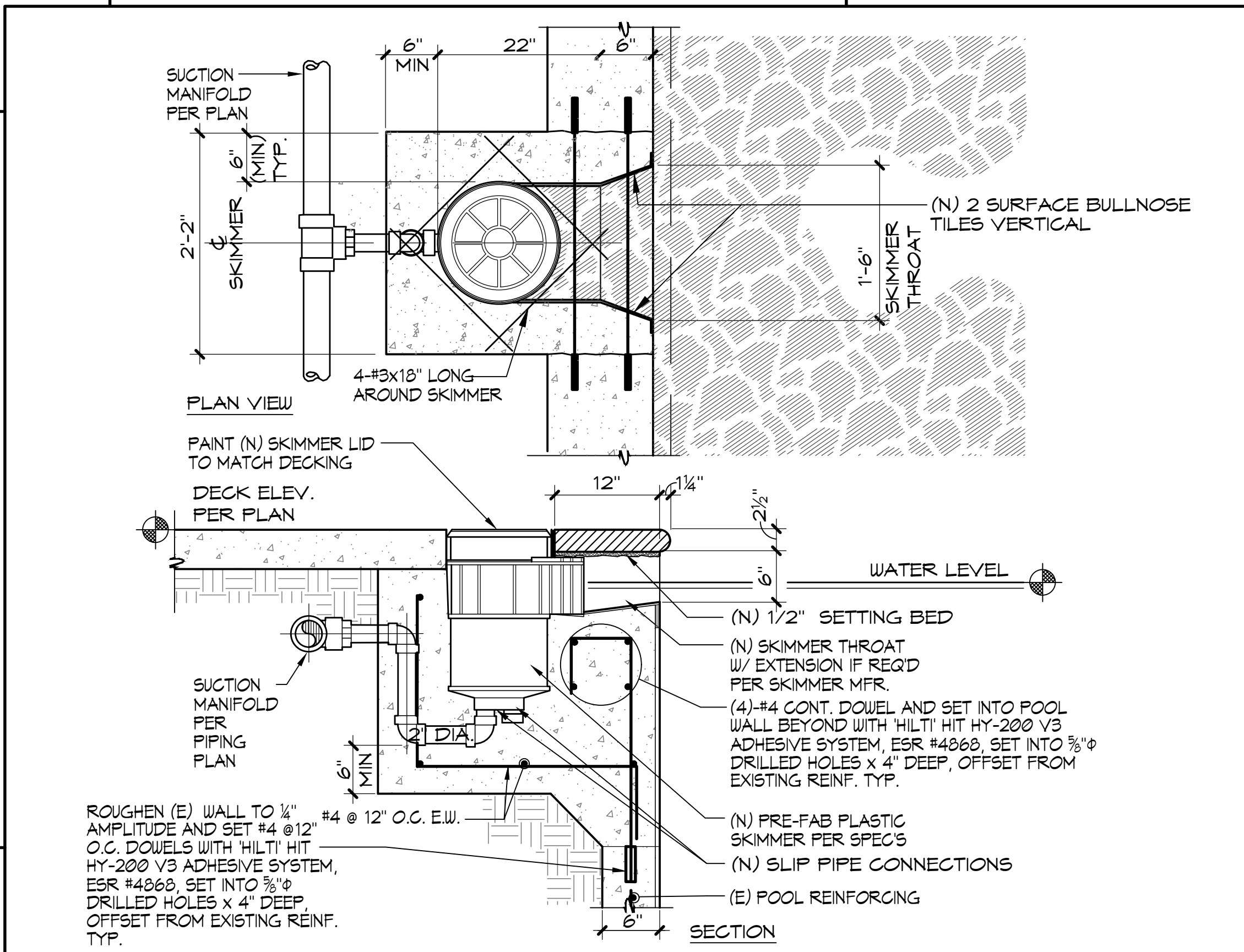
CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

ISSUED	MARK	DATE	DESCRIPTION

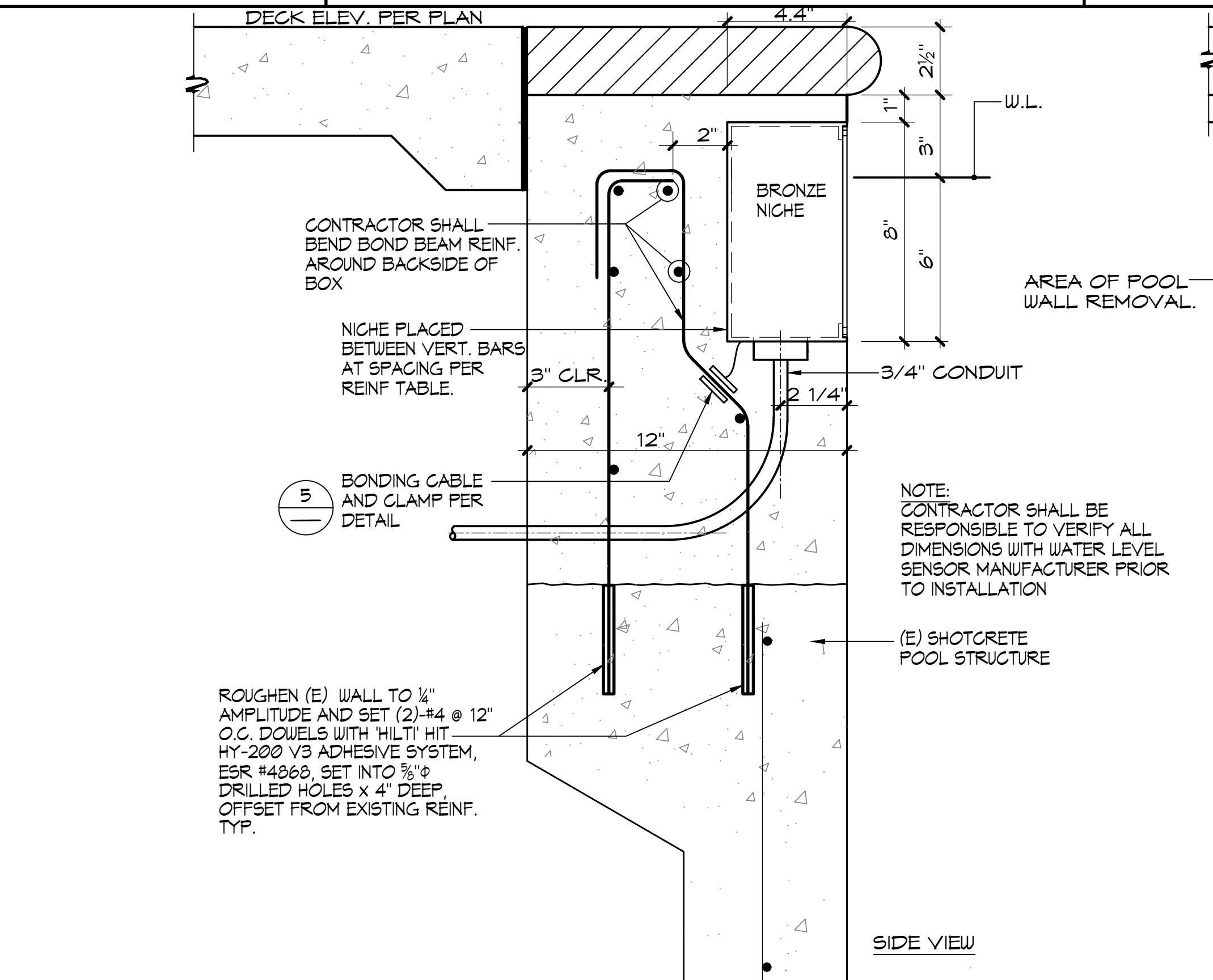
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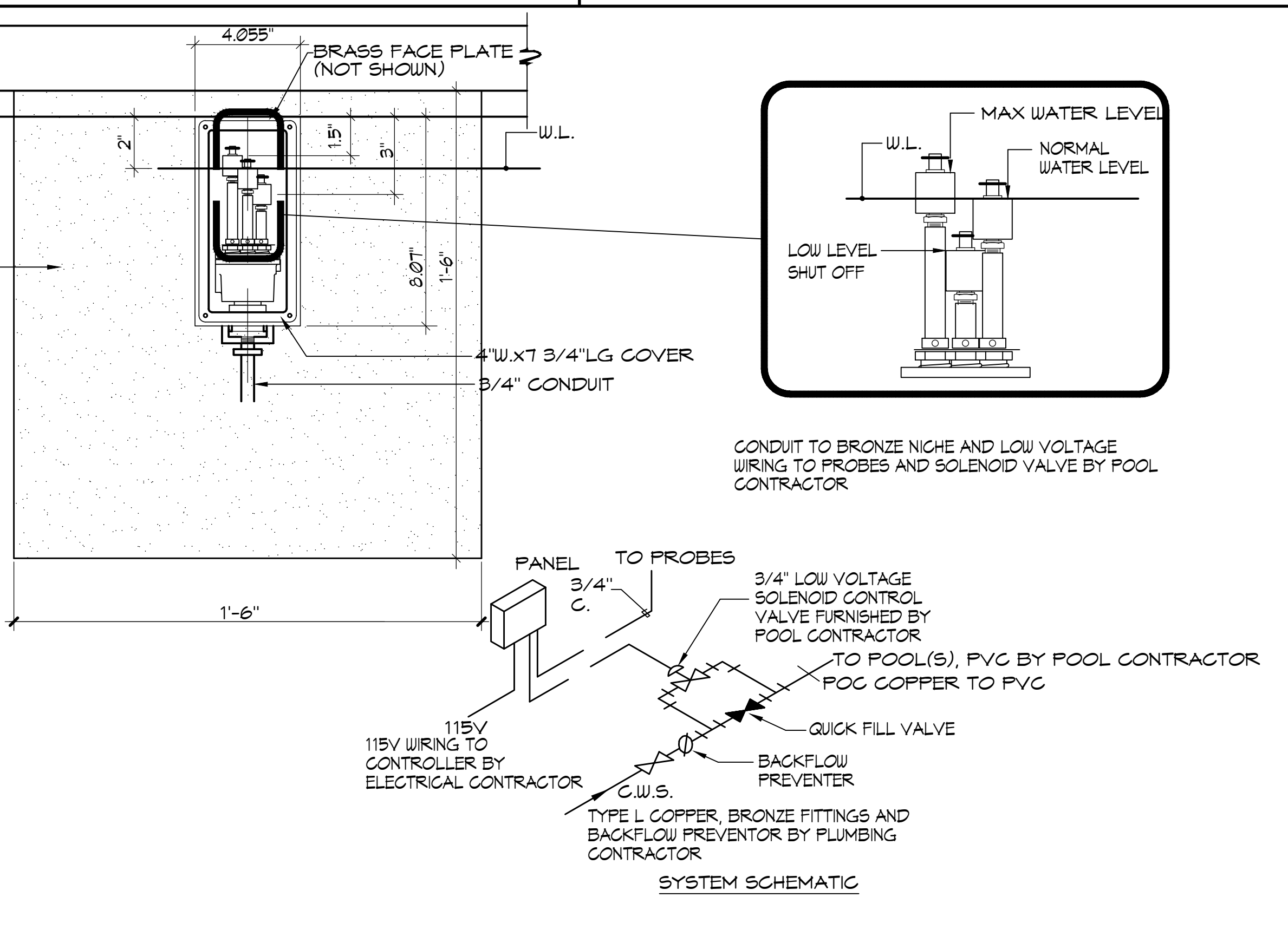
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SP-504



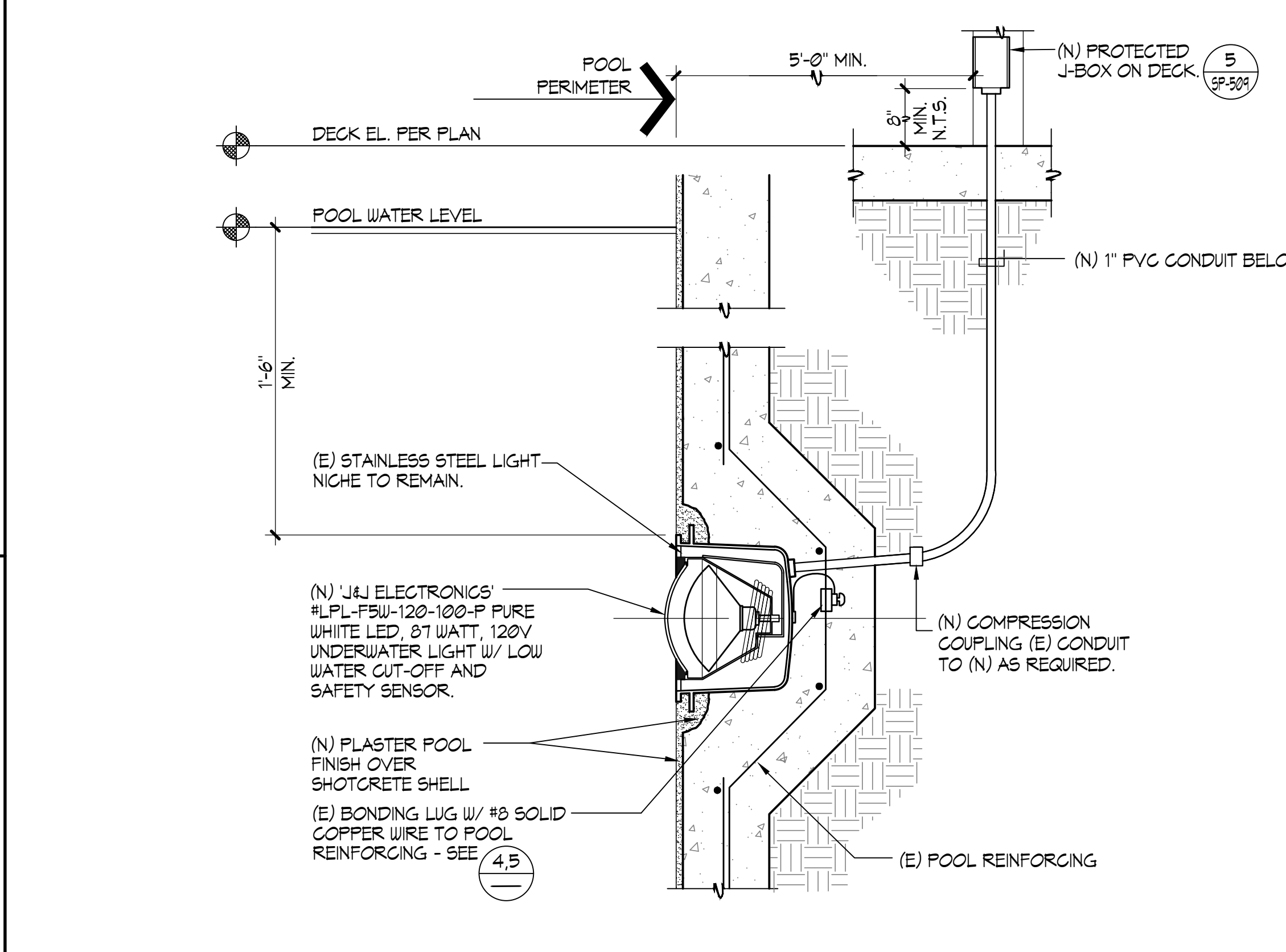
1 SURFACE SKIMMER 1"=1'-0"



2 NICHE MOUNTED WATER LEVEL CONTROL 3"=1'-0"

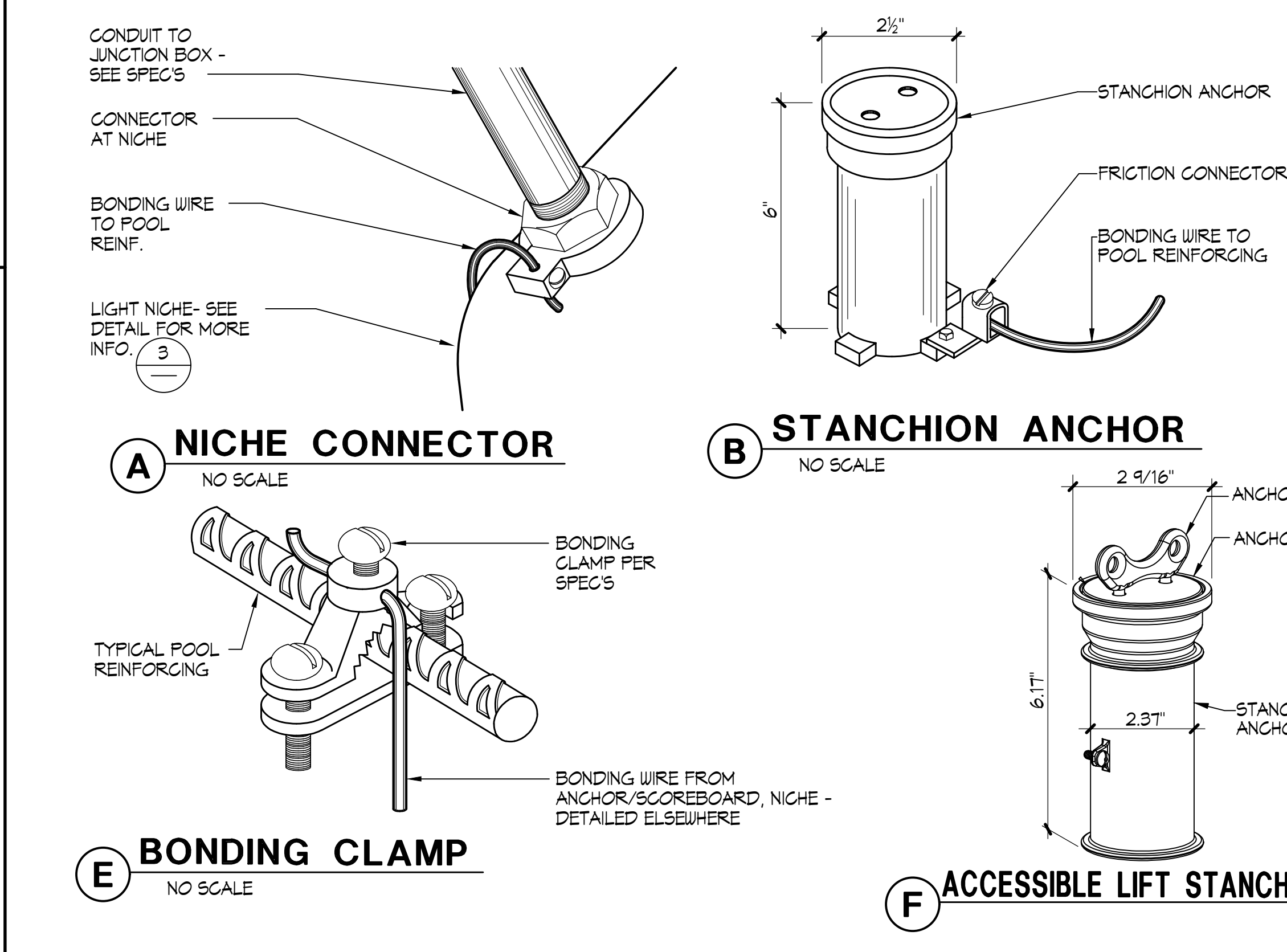


4 TYPICAL POOL BONDING AND GROUND DETAIL NO SCALE

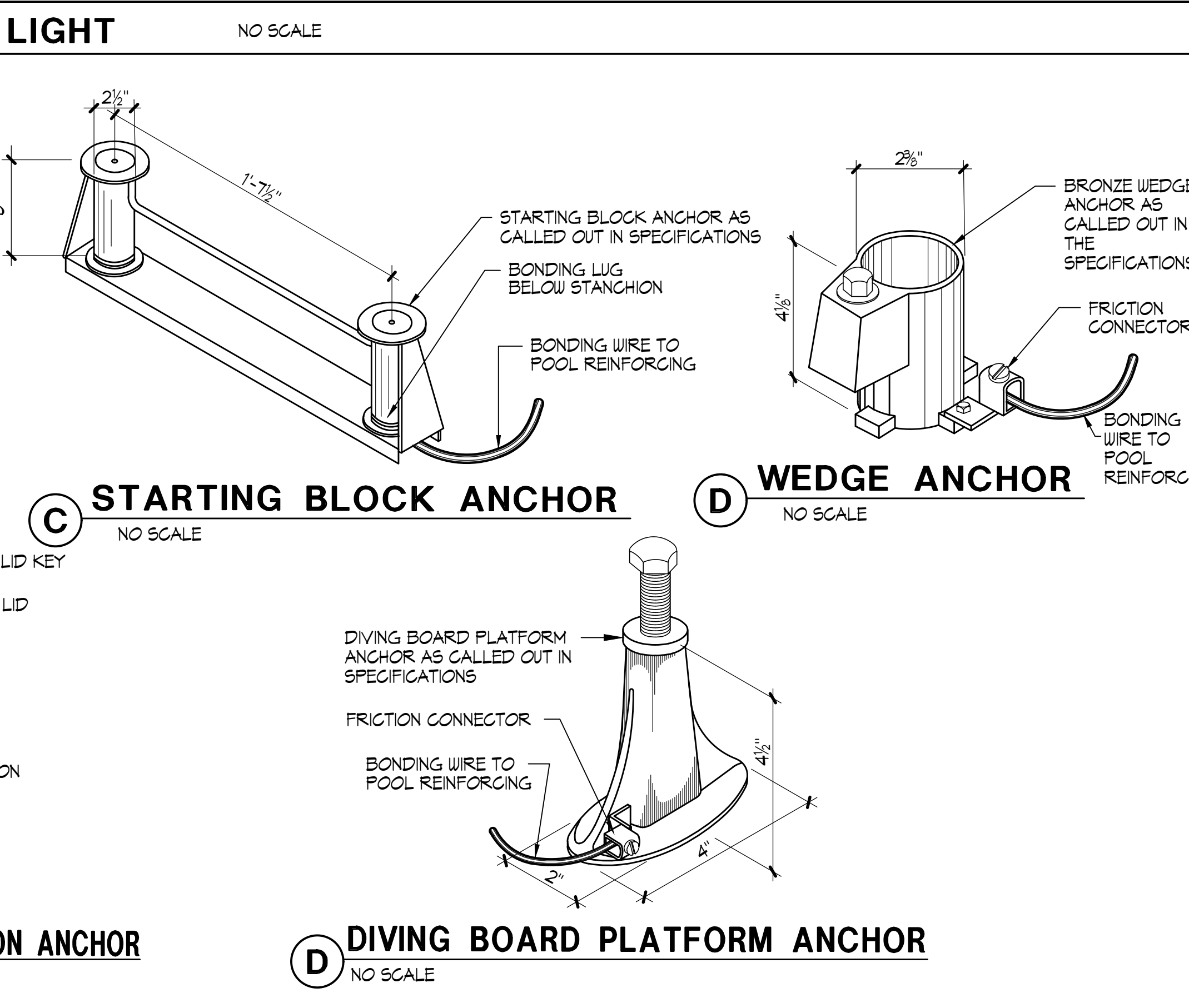


- 4 UNDERWATER LIGHT NOTES:**
- ALL CONDUITS IN POOL LIGHTING SYSTEM TO BE A MINIMUM OF 1/2".
 - CONDUCTORS TO POOL (N) J-BOXES SHALL BE MINIMUM 2-#8 & 1#8 (SEE UNDERWATER LIGHT PLAN) SOLID UNBROKEN TO MAIN PANEL. ISOLATED GROUND BUSS. THIS BUSS IS TO BE CONNECTED WITH SOLID INSULATED #8 COPPER WIRE TO UFER & COLD WATER GROUNDING LUG ON GROUNDING BUSS. UPSIZE CONDUCTORS AS REQUIRED FOR HOMERUNS EXCEEDING 100'.
 - CONDUITS WHERE ALLOWED BY CODE SHALL BE P.V.C. (POLYVINYL CHLORIDE) FROM WET NICHES TO BRASS J-BOXES TO LIGHTING PANEL. ALL CONDUITS IN FREE AIR SPACE AND ALL RISERS SHALL BE RED BRASS TYPICAL. P.V.C CONDUITS SHALL BE SOLVENT WELDED WITH PURPLE PRIMER AND GRAY HEAVY BODIED GLUE.
 - BRASS POOL J-BOXES SHALL BE "HYDREL" #1119; 1/2" I HUBS OR EQUAL. (NO DIE CAST BOXES).
 - STRINGS SHALL BE PULLED IN ALL CONDUITS PRIOR TO PLACEMENT OF CONCRETE.
 - LOCAL, COUNTY OR CITY CODES SHALL BE ADHERED TO. SPECIFICATIONS TO BE IN ACCORDANCE WITH SECTION 600 OF LATEST C.E.C. BOOK.
 - PROVIDE PULL BOXES AS MAY BE REQUIRED FOR RUNS EXCEEDING 150 FT. OR DUE TO CHANGES IN GRADE OR DIRECTION.
 - CONTRACTOR SHALL TEST UNDERWATER POOL LIGHT GFCI CIRCUITS AND PROVIDE LETTER TO OWNER/DISA UPON SUCCESSFUL TEST.
 - SEAL CONDUIT OPENING IN LIGHT NICHE WITH SILICON CAULKING AFTER LIGHT IS INSTALLED.
 - PRIOR TO LIGHT INSTALLATION, PROVIDE MINIMUM 10 PSI PRESSURE TEST ON ALL POOL LIGHT CONDUITS FOR FOUR (4) HOURS OBSERVED BY INSPECTOR OF RECORD. MAINTAIN PRESSURE UNTIL ALL DECKS ARE POURED.
 - COMPLETELY REMOVE AND REPLACE THE EXISTING UNDERWATER POOL LIGHT FIXTURES. BEFORE ORDERING NEW UNDERWATER POOL LIGHT FIXTURES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE CONDITION OF EACH EXISTING POOL LIGHT NICHE TO ENSURE THEY ARE NOT DAMAGED AND HAVE BEEN INSTALLED IN ACCORDANCE WITH ARTICLE 600 OF THE NEC. THE CONTRACTOR SHALL DETERMINE THE CORRECT SIZE AND THE TYPE OF REPLACEMENT POOL LIGHT FIXTURE THAT CAN BE PROPERLY USED TO FIT AND SECURE INTO THE EXISTING NICHE. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE PILOT HOLE THREADS AND NICHE HOOK AT EACH EXISTING POOL LIGHT NICHE ARE NOT DAMAGED AND ARE COMPLETELY INTACT AND READY TO RECEIVE A NEW POOL LIGHT FIXTURE. IOR/BUILDING DEPARTMENT TO REVIEW AND APPROVE INSTALLATION PRIOR TO PLASTERING THE POOL.
 - ALL (N) BRASS POOL J-BOXES SHALL BE SURFACE MOUNTED AND CONCRETE ENCASED.

3 UNDERWATER LED LIGHT NO SCALE

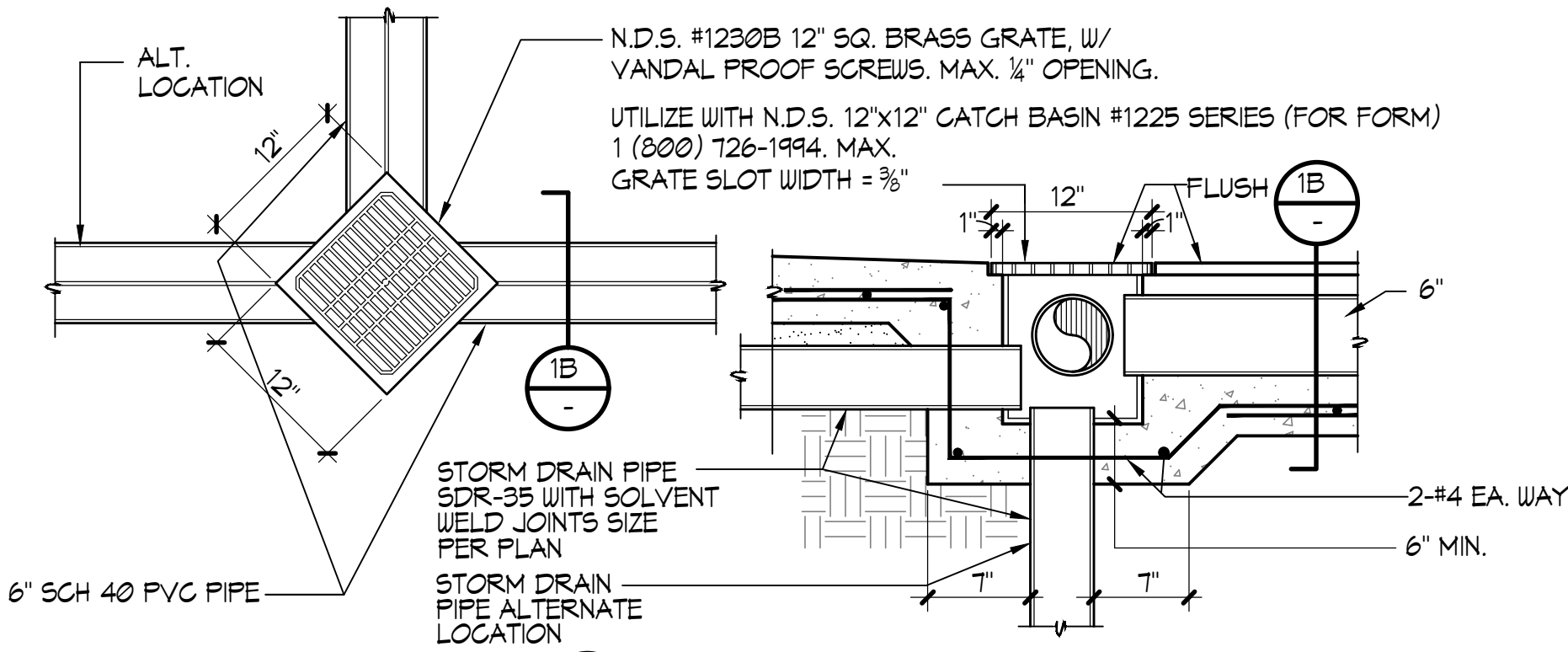


5 BONDING DETAILS NO SCALE

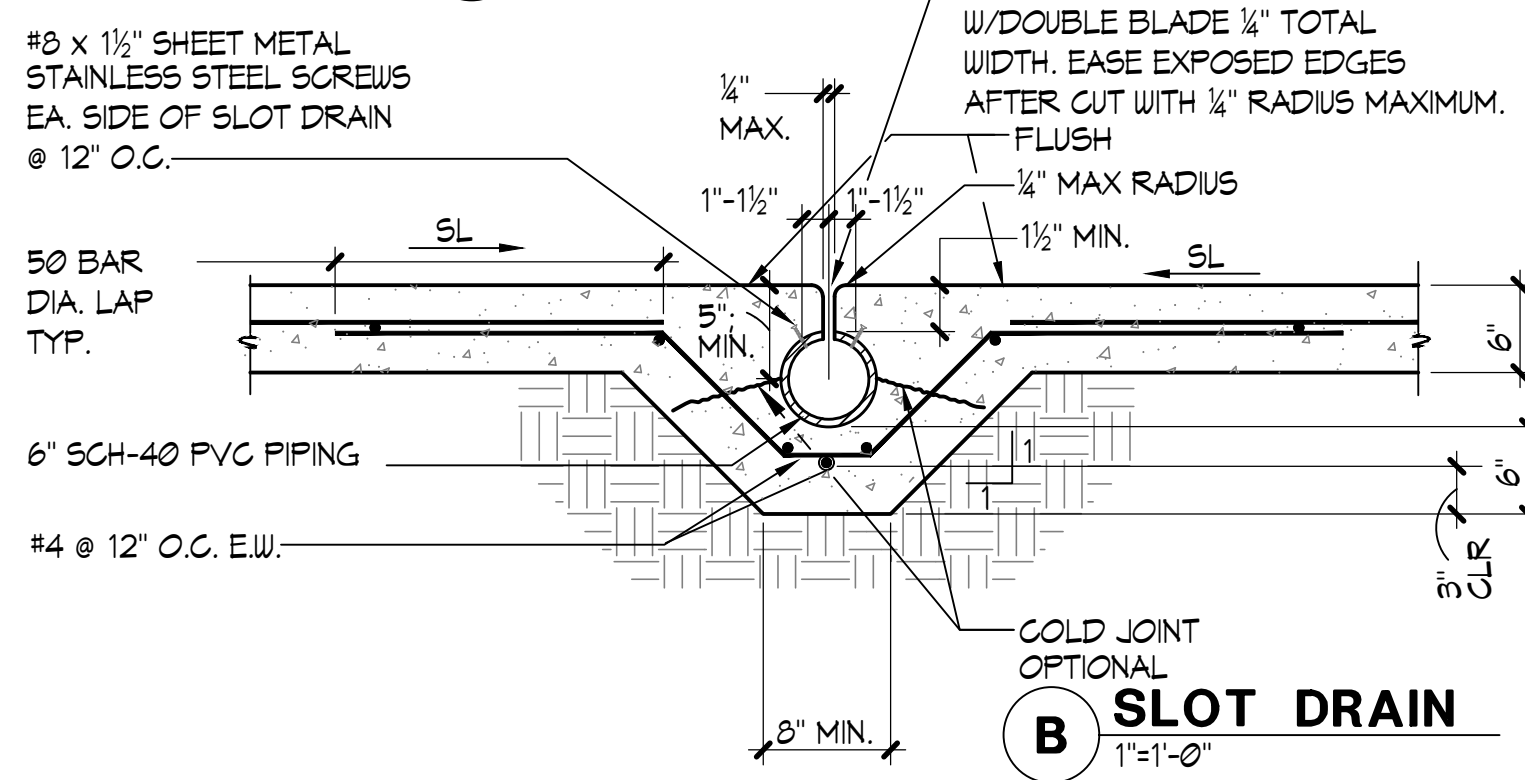


6 CONCRETE DECK JOINT DETAILS 1/2"=1'-0"

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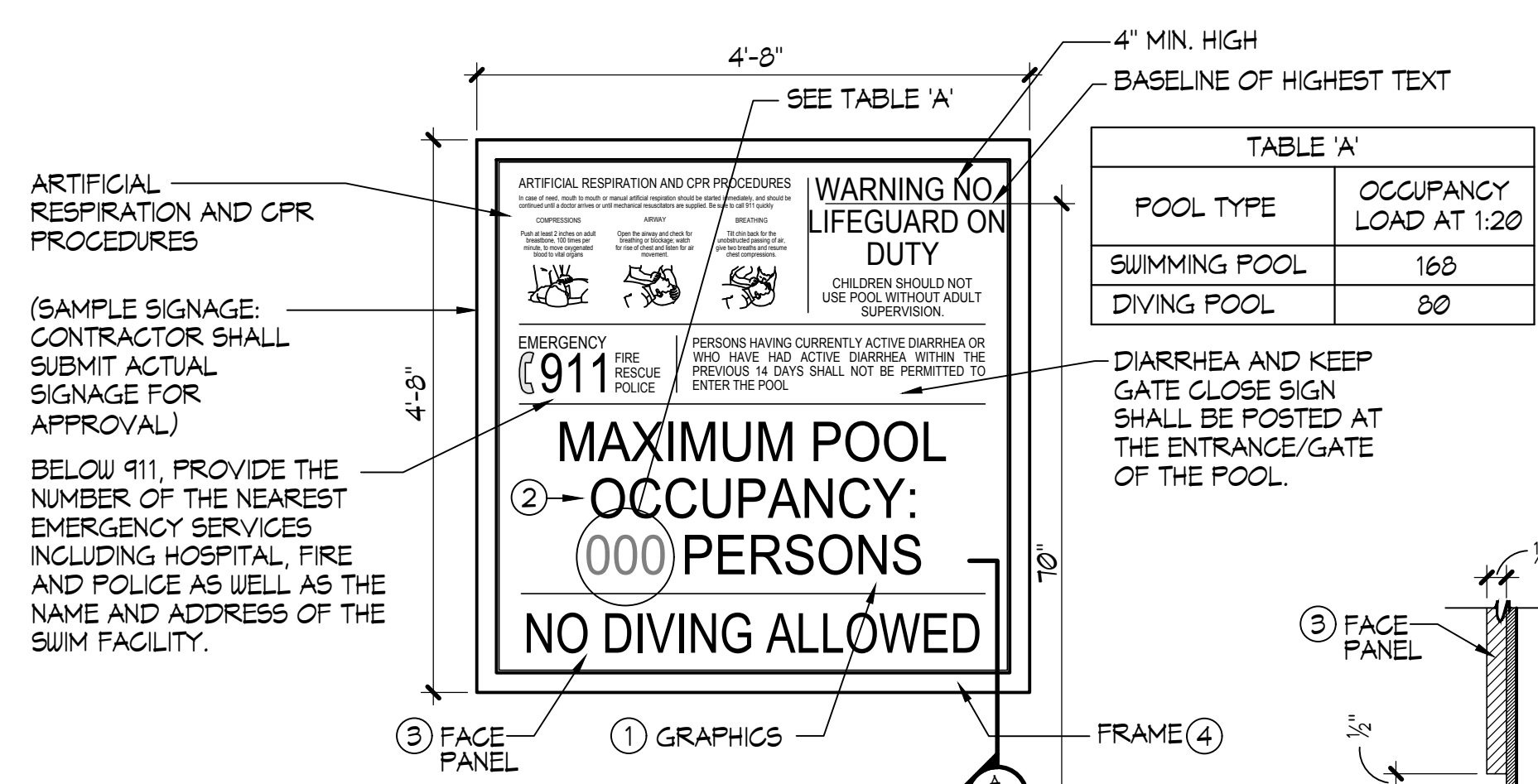


A SLOT DRAIN CLEAN OUT
1" = 1'-0"



B SLOT DRAIN
1" = 1'-0"

1 SLOT DRAIN
1" = 1'-0"

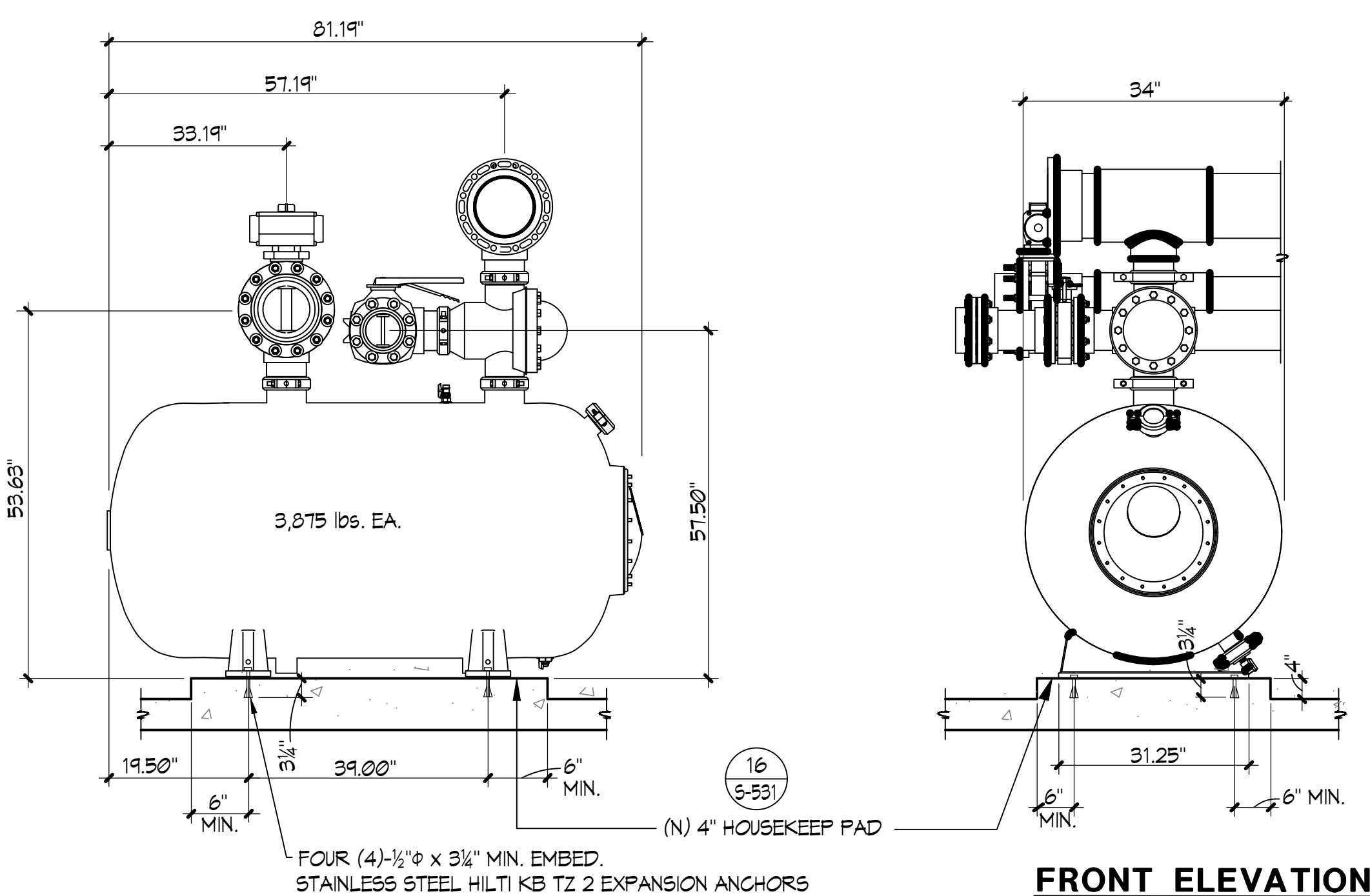


SIGNAGE NOTES AND SPECIFICATIONS:

- 1/2" THICK PAINTED ALUMINUM BACKER PANEL.
- SILKSCREENED COPY/GRAPHICS WITH NON GLARE FINISH.
- 1/2" THICK PAINTED ALUMINUM FACE PANEL WITH SILKSCREENED COPY/GRAPHICS. ATTACH TO 1/2" THICK PAINTED ALUMINUM BACKER PANEL USING VHB TAPE AND SILICONE ADHESIVE.
- 2" WIDE x 1/2" THICK PAINTED ALUMINUM SIGN FRAME ADHERED TO 1/2" THICK PAINTED ALUMINUM BACKER USING LORDS ADHESIVE AS REQUIRED. VERTICAL SECTIONS OF FRAME TO BE RECTANGULAR TUBE. FILL AND SAND SEAM ALONG EDGE AND FACE PRIOR TO PAINTING.

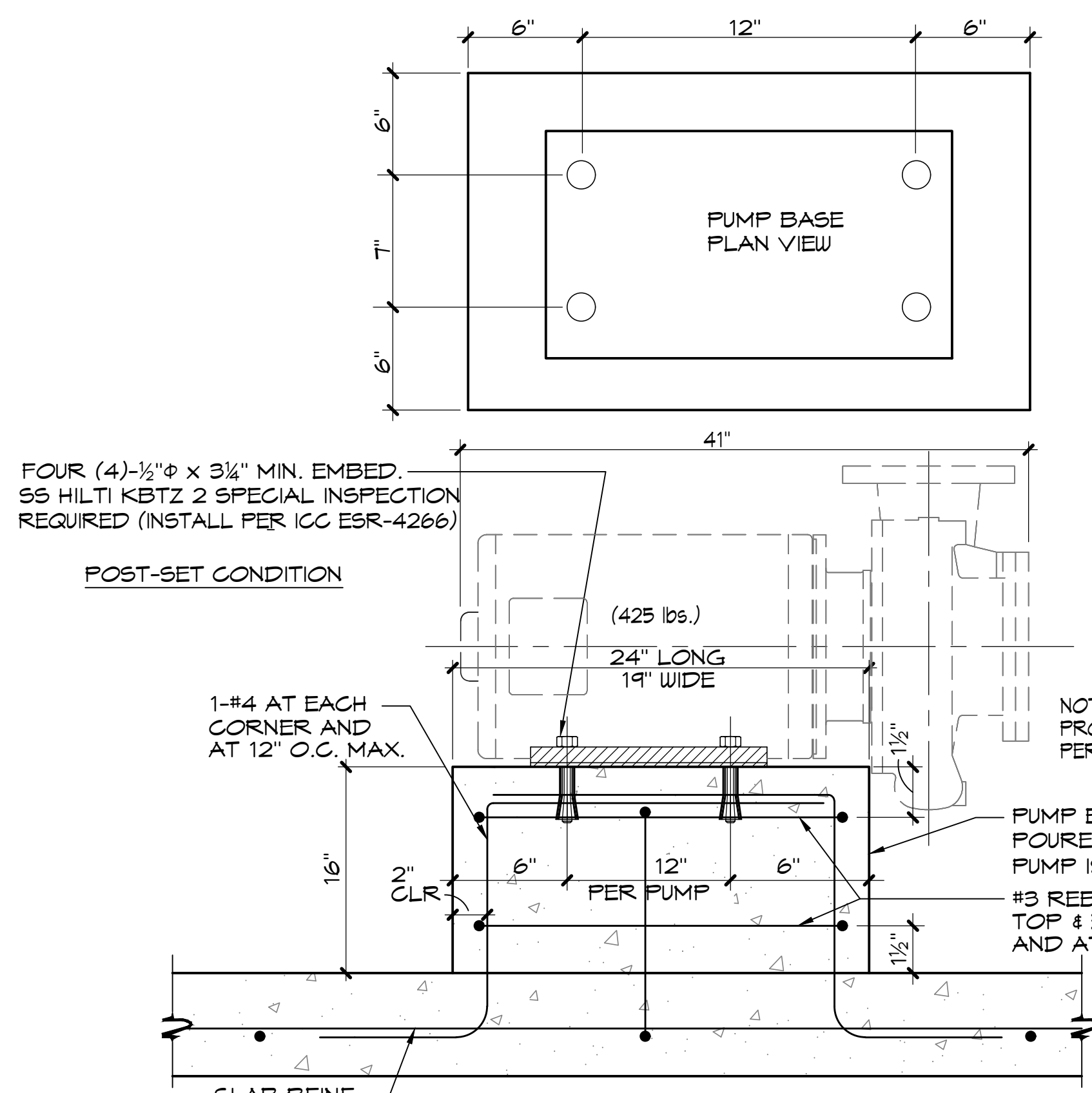
A SECTION
6" = 1'-0"

2 POOL SIGNAGE DETAIL
3/4" = 1'-0"

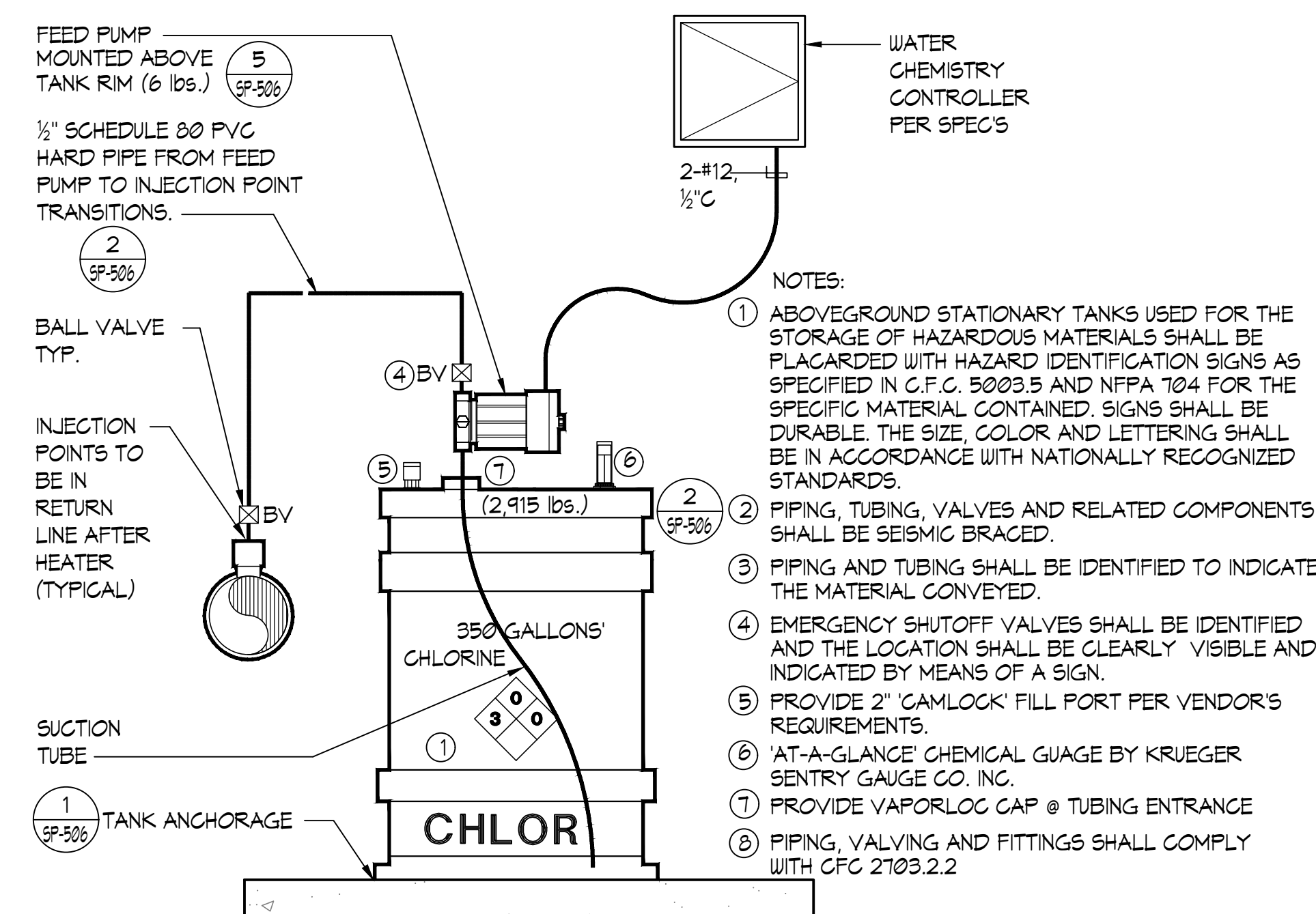


FRONT ELEVATION

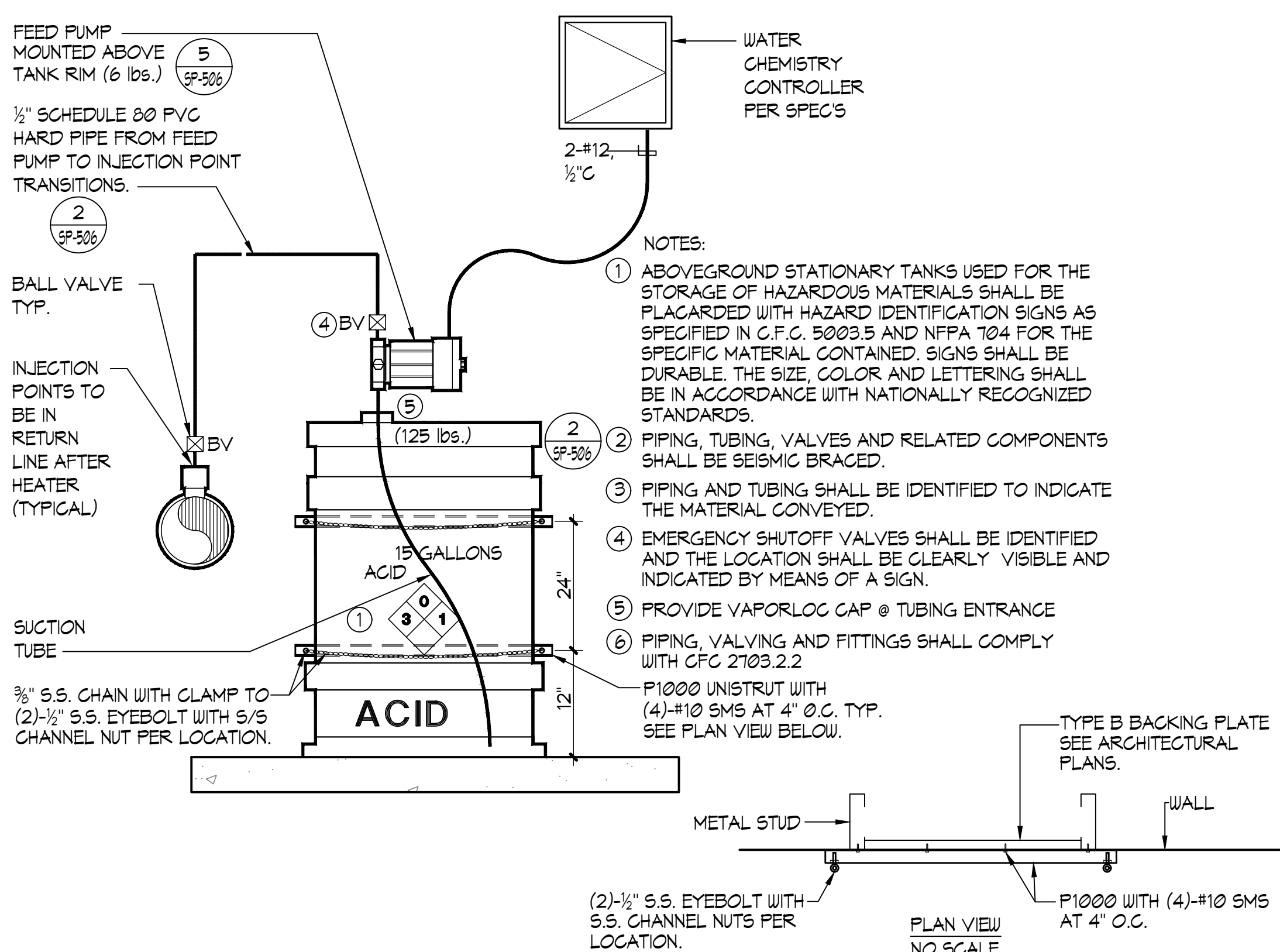
3 FILTER ANCHORAGE
NO SCALE



4 PUMP ANCHORAGE
NO SCALE



5 SODIUM HYPOCHLORITE FEED SCHEMATIC
NO SCALE



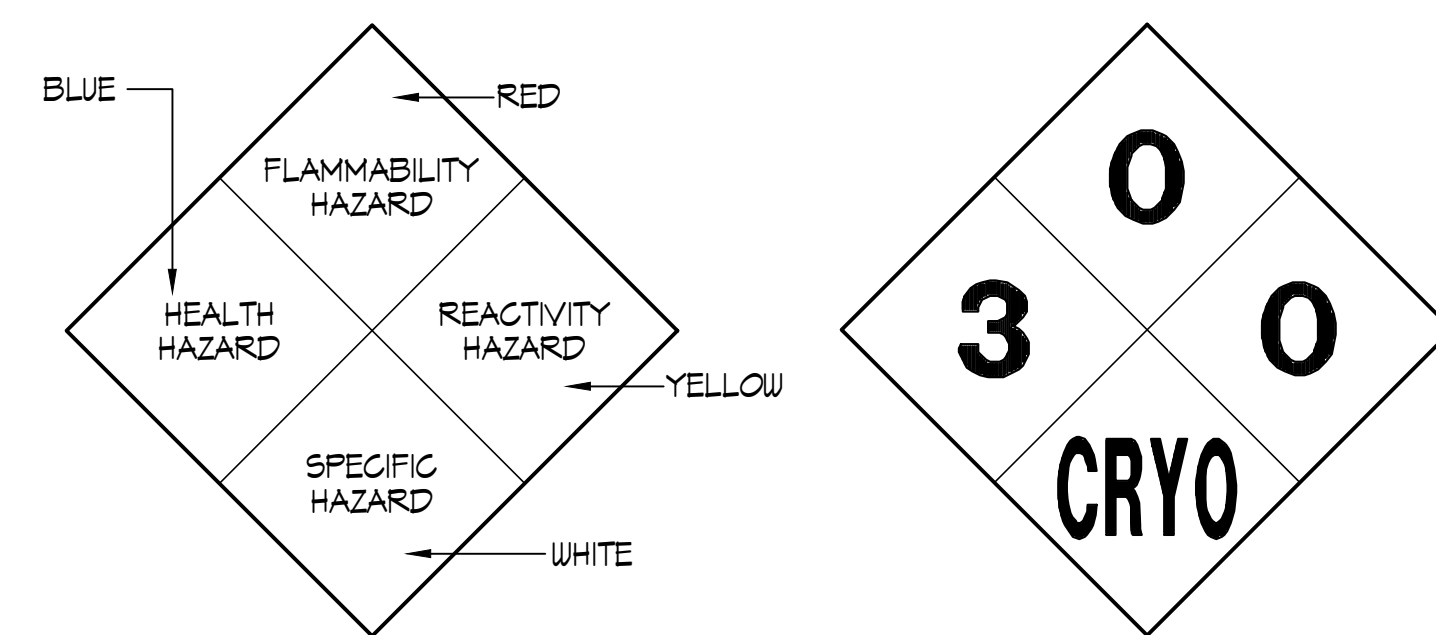
6 MURIATIC ACID FEED SCHEMATIC
NO SCALE

COMMON NAME	CHEMICAL NAME	% COMP.	CAS #	FORM	QUANT. STORED (NOT USED)	QUANT. IN USE (CLOSED)	MAXIMUM ALLOWABLE QUANTITY	LOCATION (STORAGE & USE)	HAZ CLASSES	JUSTIFICATION
SODIUM HYPOCHLORITE	SODIUM HYPOCHLORITE	12.5%	7881-52-9	LIQUID	0 GAL.	350 GAL.	350 GAL.	(E) MECH. ROOM	CORROSIVE LIQUID	MSDS
MURIATIC ACID	HYDROCHLORIC ACID	31.45%	7847-01-0	LIQUID	0 GAL.	15 GAL.	15 GAL.	(E) MECH. ROOM	CORROSIVE LIQUID	MSDS
CARBON DIOXIDE	CARBON DIOXIDE	100%	124-39-9	LIQUID	0 lbs.	600 lbs.	696 lbs.	CHEM ROOM	CRYOGENIC	MSDS

QUANTITIES OF CHEMICALS DO NOT EXCEED THE QUANTITIES LISTED IN CFC TABLE 5003.1(1/2) INCLUDING FOOTNOTE 'd' FOR CARBON DIOXIDE GAS SEE CFC TABLE 5003.1(1/1). PROVIDE HARD WIRED CO₂ DETECTOR 'ANALOX SENSOR TECHNOLOGY' MODEL #A1 KIT SENSOR AND STROBE UNITS 120V HARD WIRED W/ STROBE LIGHT AND AUDIBLE ALARM. SENSOR MOUNTED 18 INCHES A.F.F. AND ALARM LEVEL BETWEEN 10-16 INCHES AND WITHIN VISIBLE EYESIGHT OF DOOR. TO BE SET TO DETECT CO₂ GAS IN LEVELS IN EXCESS OF THE PEL. PROVIDE IN EACH ROOM CONTAINING CO₂.

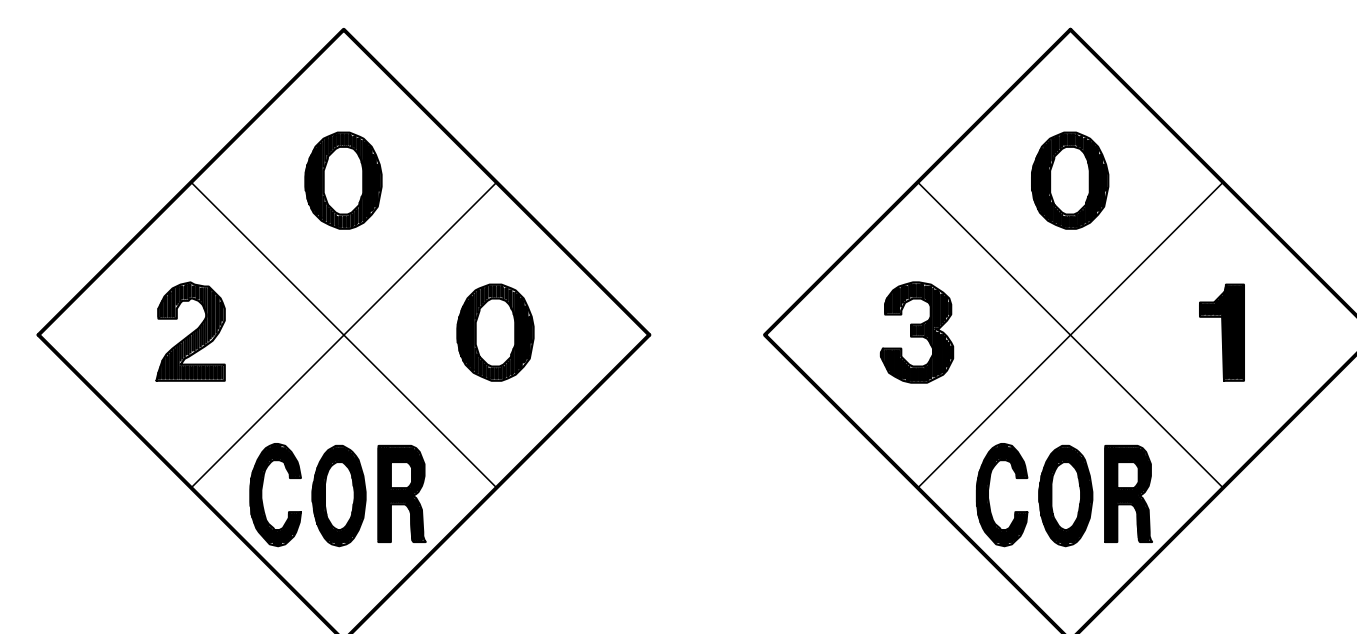
RATING	HEALTH HAZARD	FLAMMABILITY HAZARD	REACTIVITY HAZARD	SPECIFIC HAZARD
4	CAN BE LETHAL	EXTREMELY FLAMMABLE. IGNITES AT BELOW 73° F.	MAY EXPLODE AT NORMAL TEMPERATURES AND PRESSURES	OXIDIZER: OX ACID: ACID CORROSIVE: COR ALKALI: ALK USE NO WATER: -W RADIATION HAZARDS: R POLYMERIZES: P
3	CAN CAUSE SERIOUS OR PERMANENT INJURY	IGNITES AT ABOVE 73° F. BELOW 100° F.	MAY EXPLODE AT HIGH TEMPERATURES OR SHOCK	
2	CAN CAUSE TEMPORARY INCAPACITATION OR RESIDUAL INJURY	IGNITES AT ABOVE 100° F. BELOW 200° F.	VIOLENT CHEMICAL CHANGE AT HIGH TEMPERATURES OR PRESSURES	
1	CAN CAUSE SIGNIFICANT IRRITATION	IGNITES AT ABOVE 200° F.	NORMALLY STABLE. HIGH TEMPERATURES MAKE UNSTABLE	
0	NO HAZARD	WILL NOT BURN	STABLE	

- NOTES:
1. CONFIRM SIGNAGE WITH LOCAL FIRE MARSHALL AND/OR BUILDING CODES PRIOR TO INSTALLATION. SIGNS SHALL CONFORM TO NFPA 104.
2. SIGNS SHALL BE SIZES AND COLORS PER CODE MOUNTED AT +60" A.F.F. ON DOORS AT CHEMICAL ROOMS.



LEGEND

CARBON DIOXIDE



SODIUM HYPOCHLORITE

MURIATIC ACID

SIGN SHALL BE POSTED AT ROOM ENTRANCE. SIGN SHALL BE NOT LESS THAN 8" IN HEIGHT AND INDICATE:
CAUTION - CARBON DIOXIDE GAS
VENTILATE THE AREA BEFORE ENTERING A HIGH CARBON DIOXIDE (CO₂) GAS CONCENTRATION IN THIS AREA CAN CAUSE ASPHYXIA.

7 HAZARDOUS INFORMATION SIGNAGE
NO SCALE

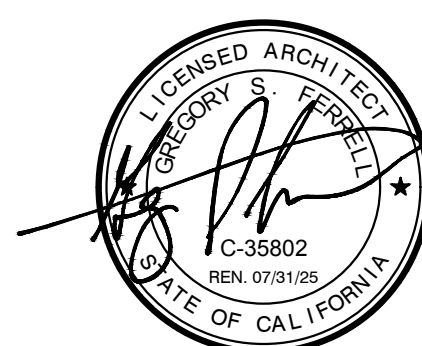
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122170 INC.
REVIEWED FOR:
SS FLS ACS
DATE: 05/09/2024

LIONAKIS

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PROJECT
JOHN F. KENNEDY HIGH SCHOOL SWIMMING POOL UPGRADE

6715 GLORIA DR
SACRAMENTO, CA 95831

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

ISSUED
MARK DATE DESCRIPTION

MANAGEMENT
LIONAKIS PROJECT NO: 200007
CLIENT PROJECT NO: 200.00.007
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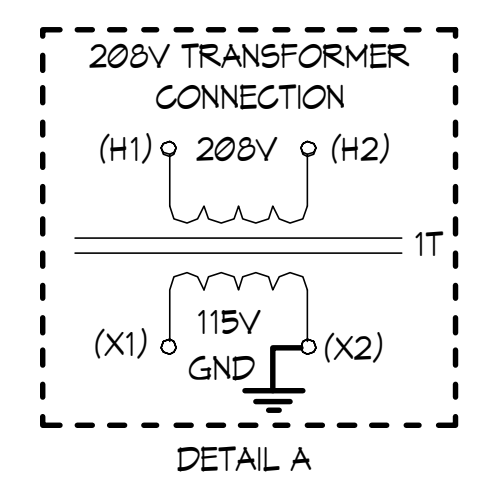
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SHEET

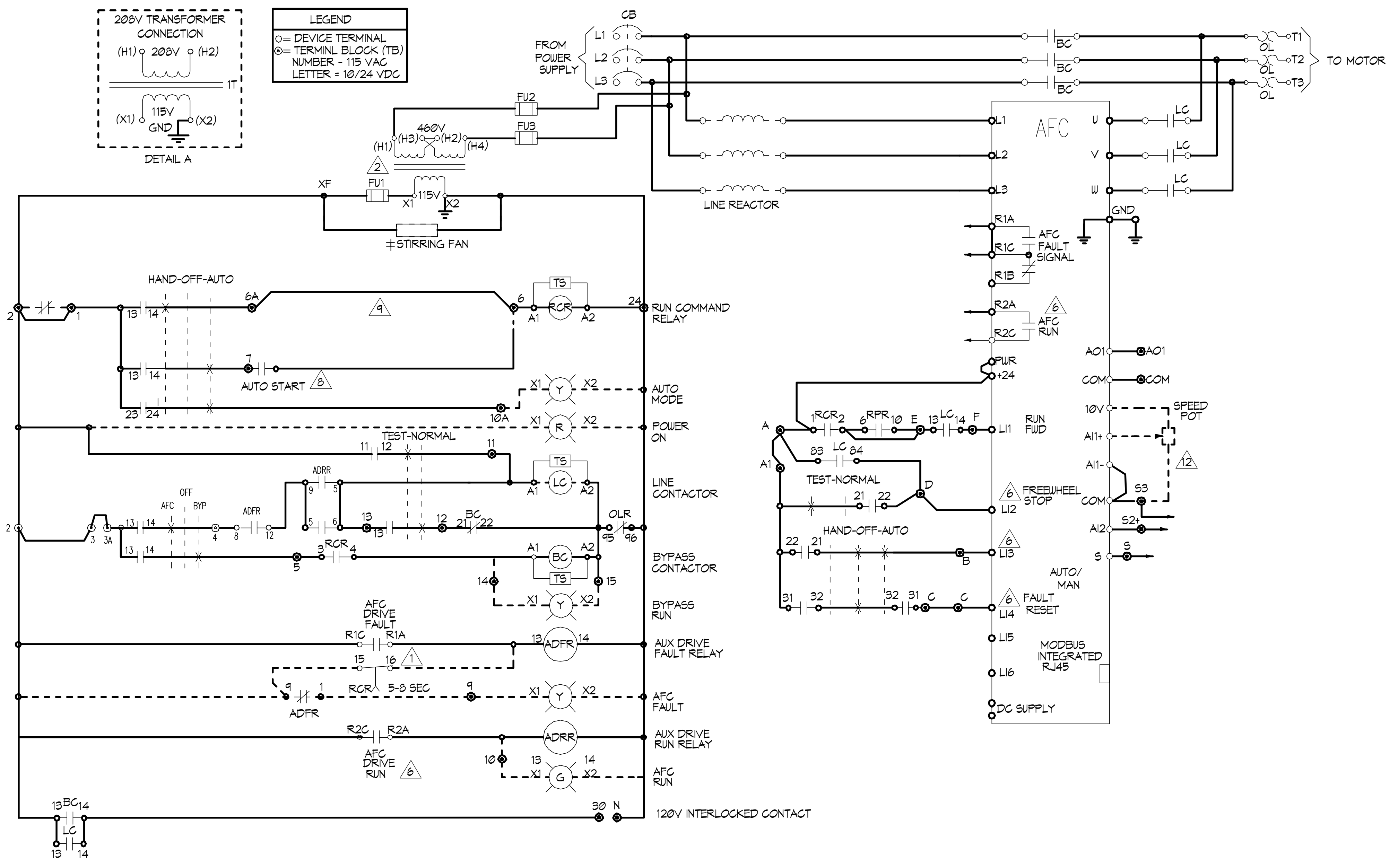
SP-505

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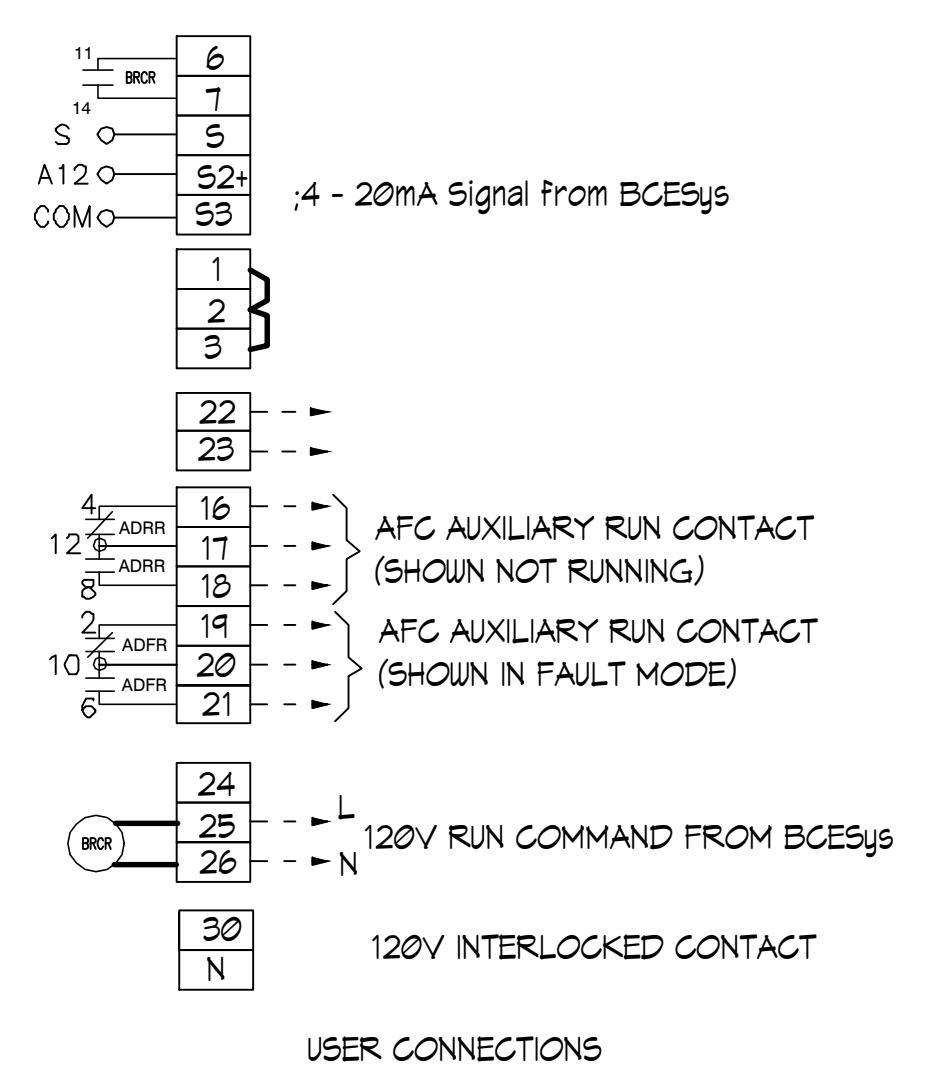


LEGEND	
○	= DEVICE TERMINAL
⊙	= TERMINAL BLOCK (TB) NUMBER - 115 VAC LETTER = 10/24 VDC



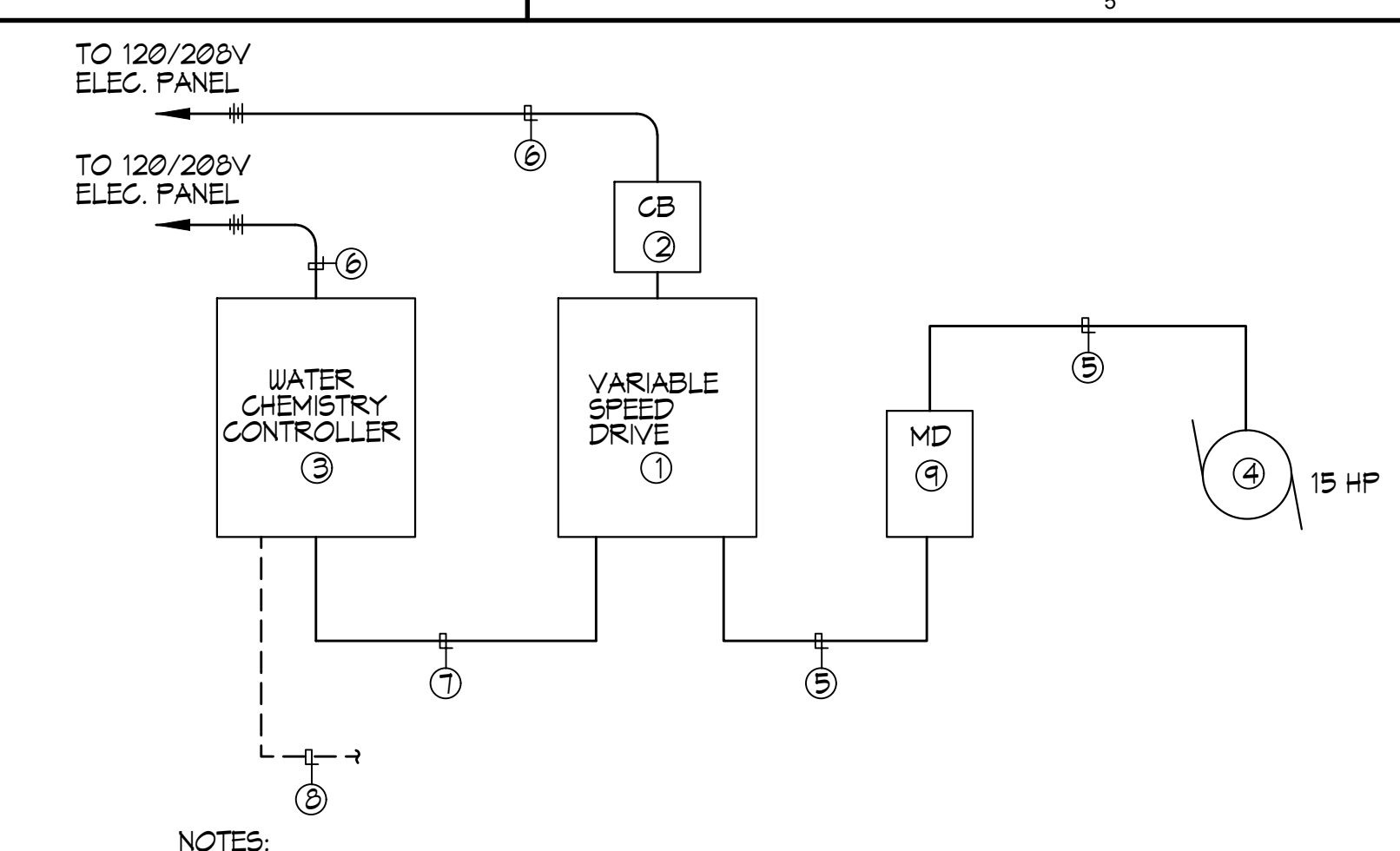
EKO-FLEX ATV61 FACTORY CONFIGURATION					
MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
SIM	1.1	----	2/3 WIRE CONTROL	tCC	2C
SIM	1.1	----	PUMPS FANS	CFG	PhF
SIM	1.1	----	STANDARD MOT. FREQ. (HZ)	bFr	60
SIM	1.1	----	ACCELERATION (SEC)	ACC	10
SIM	1.1	----	DECELERATION (SEC)	dEC	10
SIM	1.1	----	LOW SPEED (HZ)	LSP	3
SIM	1.3	----	SWITCHING FREQ. (HZ)	SCF	0
I - O	1.5	----	2 WIRE TYPE	tCt	LEL
I - O	1.5	A12 CONFIG.	A12 MIN. VALUE (mA)	Ch2	4
I - O	1.5	R2 CONFIG.	R2 ASSIGN - DRIVE RUNNING	r2C	run
CLL	1.6	----	REF. 1 CHAN	FR1	HMI
CLL	1.6	----		FR1	A11
CLL	1.6	----	PROFILE	CHCF	SEP
FLN	1.7	STOP CONFIG.	FREEWHEEL STOP ASSIGN	mSt	LI2
FLN	1.7	REFERENCE SWITCH	REF. 1B SWITCHING	rCb	LI3
FLN	1.7	REFERENCE SWITCH	REF. 1B CHAN	Fr1b	A12
FLI	1.8	FAULT RESET	FAULT RESET	rSF	LI4
FLI	1.8	CATCH ON THE FLY	CATCH ON THE FLY	FLR	YES
FLI	1.8	OUTPUT PHASE LOSS	OUTPHASE LOSS	FDL	NO
COM	1.9	FORCED LOCAL	FORCED LOCAL ASSIGN.	FLI	LI4

DESCRIPTION	TYPE 1	TYPE 12K	TYPE 3R
± STIRRING FANS	10-100 HP 460V, 1.5-50HP 208/230V	10-100 HP 460V, 1.5-50HP 208/230V	NA
± VENTILATION FAN	NA	NA	ALL HP
± SPACE HEATER	NA	NA	ALL HP



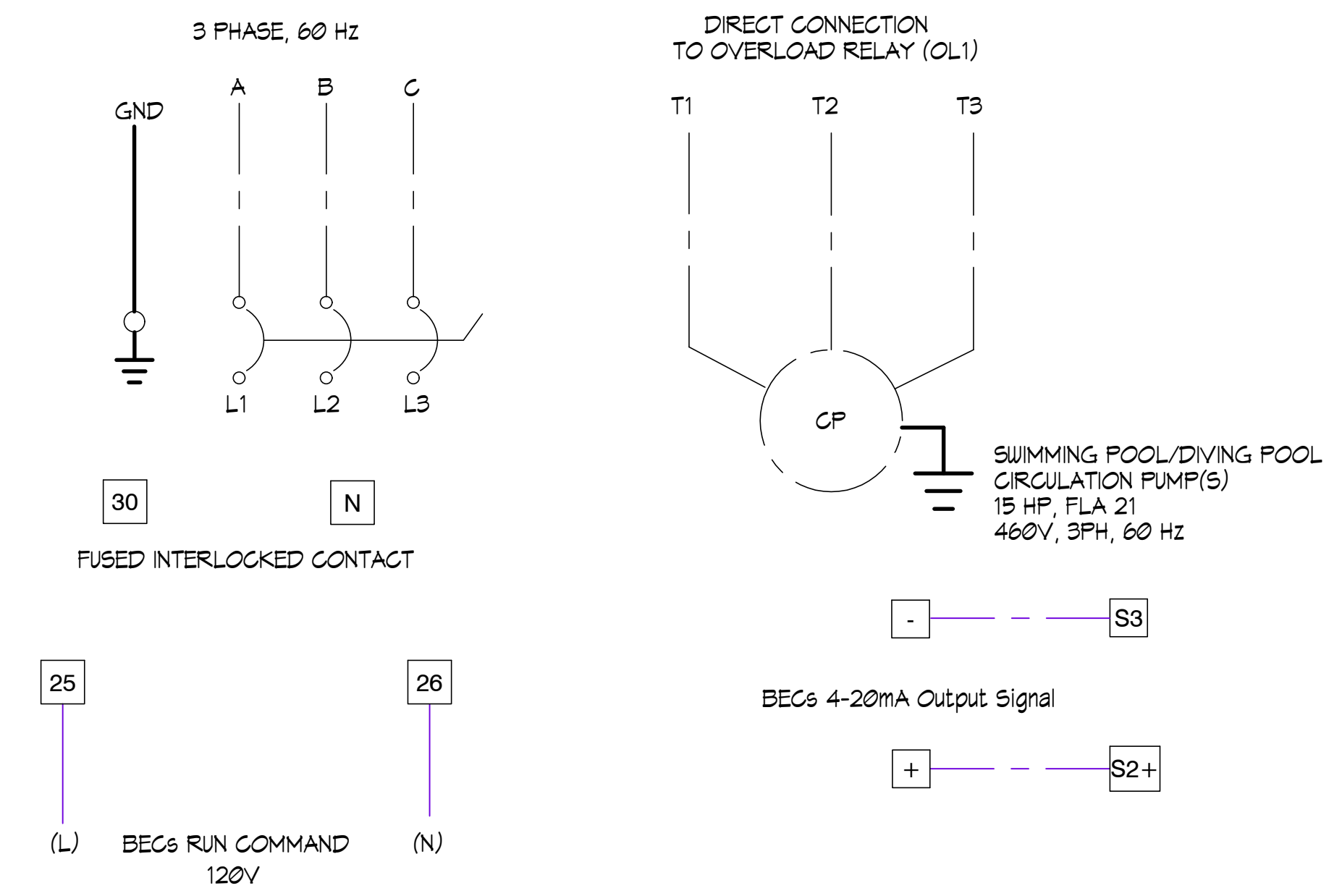
- NOTES:
- ① RCR TIMED CONTACT USED ONLY IF LINE CONTACTOR IS SUPPLIED
 - ② CONTROL TRANSFORMER SHOWN FOR 460V PRIMARY. FOR 230V PRIMARY, JUMPER H2-H3 IS
 - ③ PROGRAMMED I/O SEE CONTROLLER FUNCTION CONFIGURATION TABLE.
 - ④ BECS RUN COMMAND RELAY (BRGR)
 - ⑤ JUMPER USED WHEN START-STOP PUSH BUTTONS NOT USED.

1 'SPCS' EKO-FLEX VARIABLE FREQUENCY DRIVE SYSTEM SCHEMATIC NO SCALE

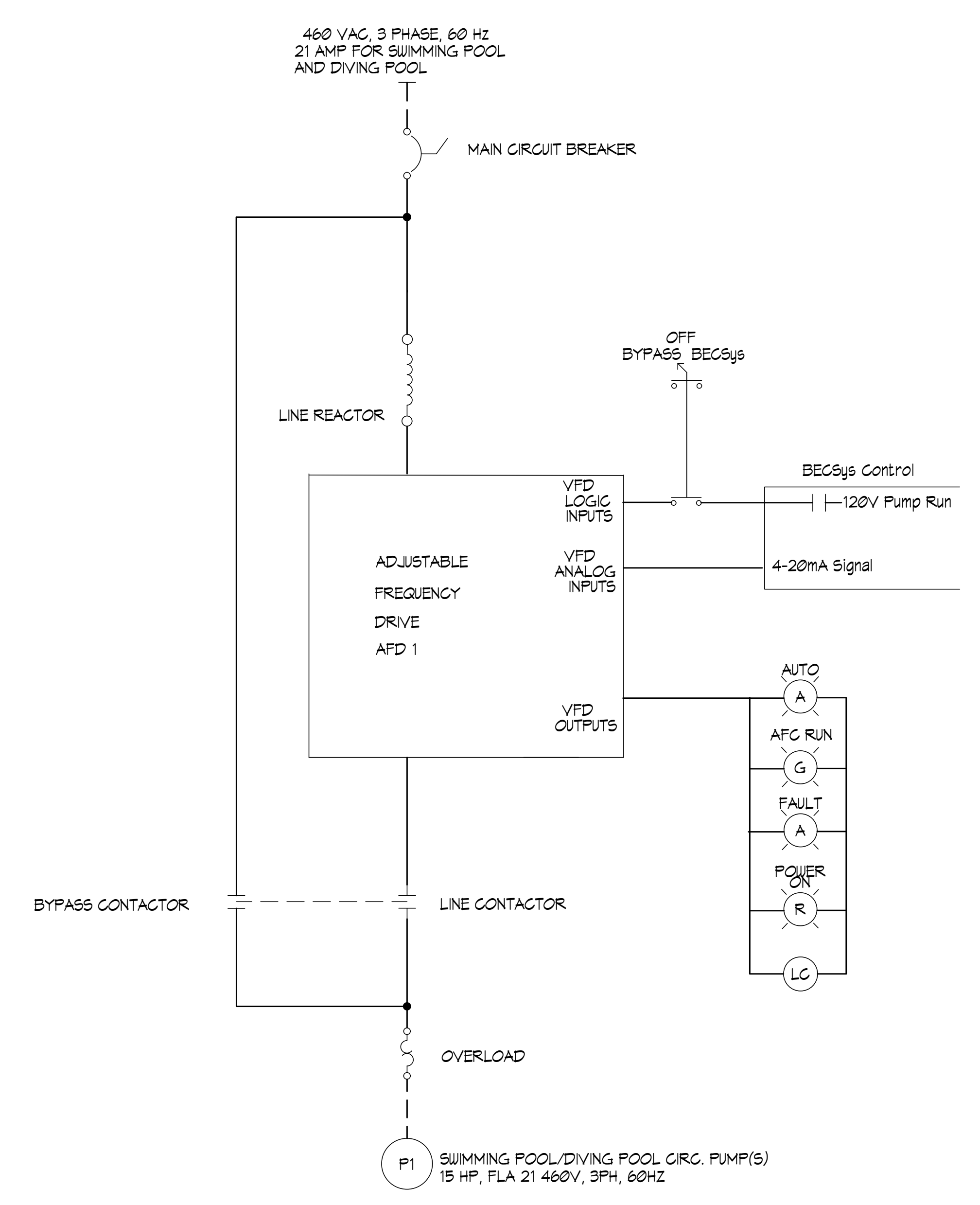


- NOTES:
- ① VARIABLE SPEED DRIVE MOTOR CONTROL CABINET, SEE PLANS AND SPECIFICATIONS.
 - ② ENCLOSED CIRCUIT BREAKER, SEE SINGLE LINE DIAGRAM.
 - ③ WATER CHEMISTRY/FILTER CONTROL UNIT, SEE PLANS.
 - ④ CONNECT TO CIRCULATION PUMP MOTOR, SEE PLANS.
 - ⑤ MOTOR FEEDERS, SEE SINGLE LINE DIAGRAM.
 - ⑥ 120 VOLT BRANCH CIRCUITS, SEE PLANS.
 - ⑦ 3/4", (4) #12, (1) #12 GND. (120 VOLT CONTROL WIRING)
 - ⑧ 24 VOLT SIGNAL AND SENSOR CABLING, SEE SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS.
 - ⑨ MOTOR DISCONNECT, SEE PLANS.

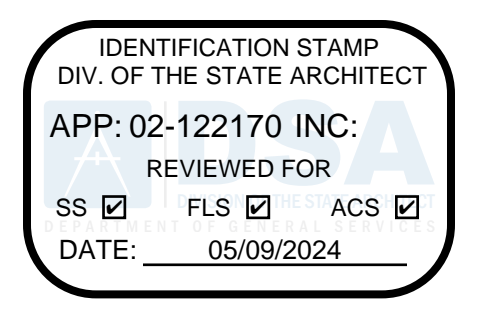
2 TYPICAL WIRING SCHEMATIC AT SPCS UNIT NO SCALE



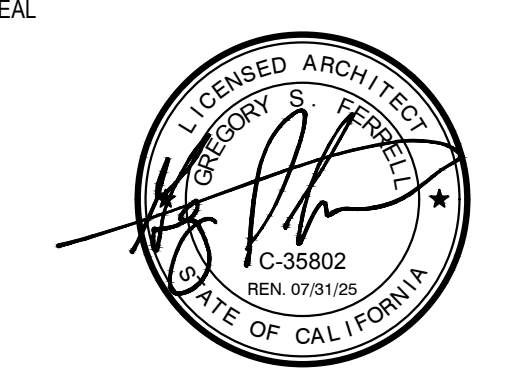
3 'SPCS' EKO-FLEX FIELD CONNECTION DIAGRAM NO SCALE



4 'SPCS' EKO-FLEX SINGLE LINE DIAGRAM NO SCALE



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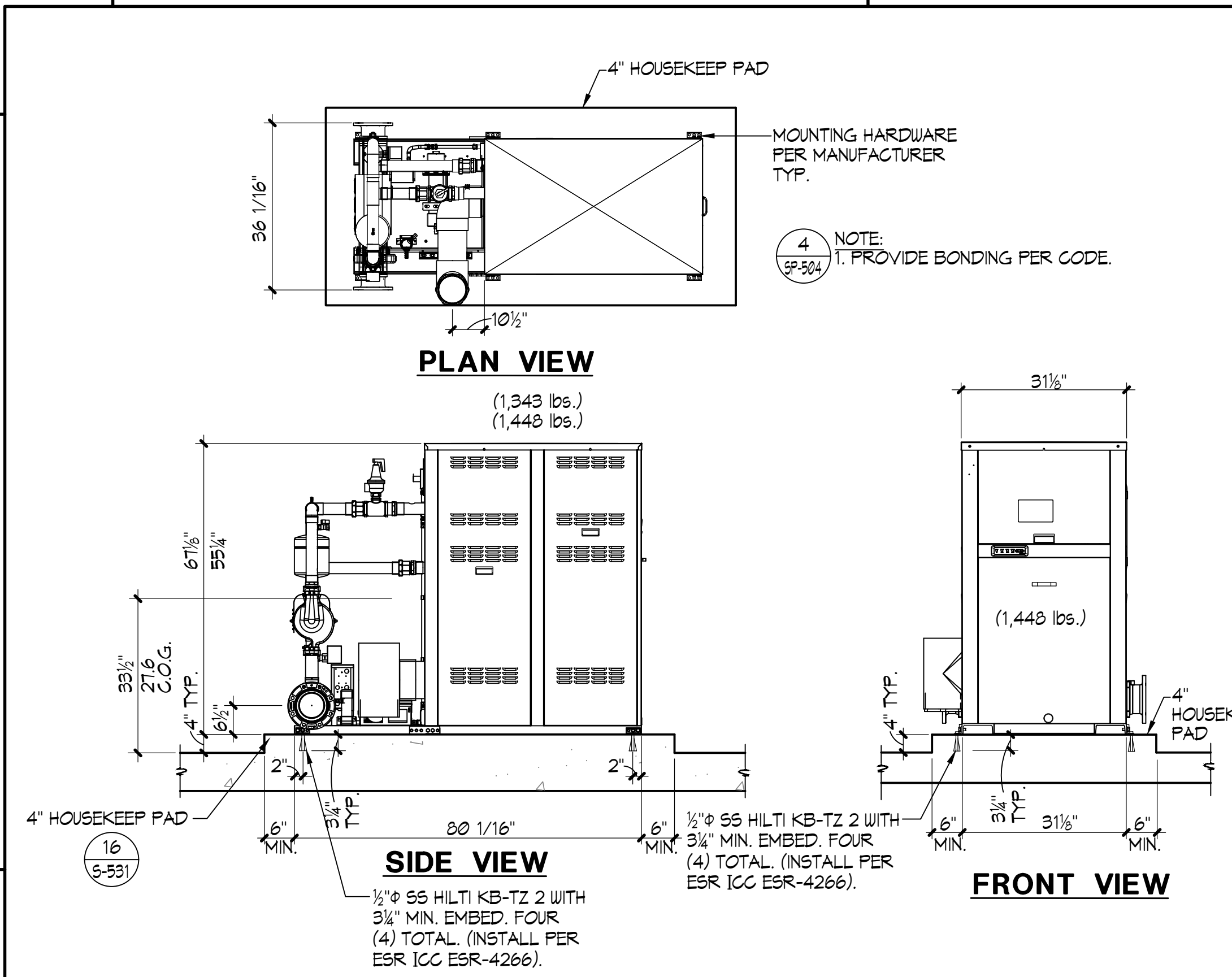
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DETAILS

SHEET
SP-507

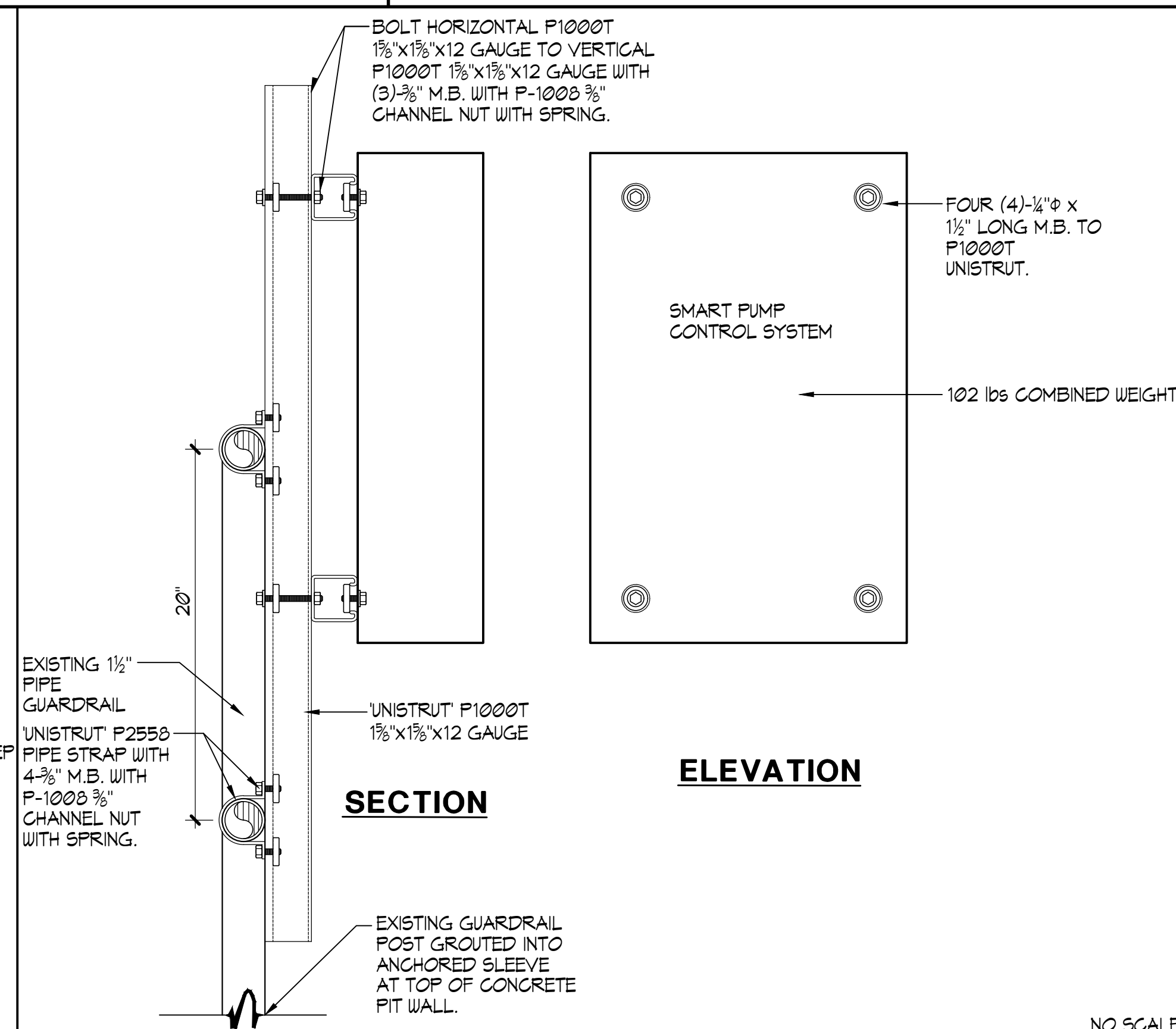
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C

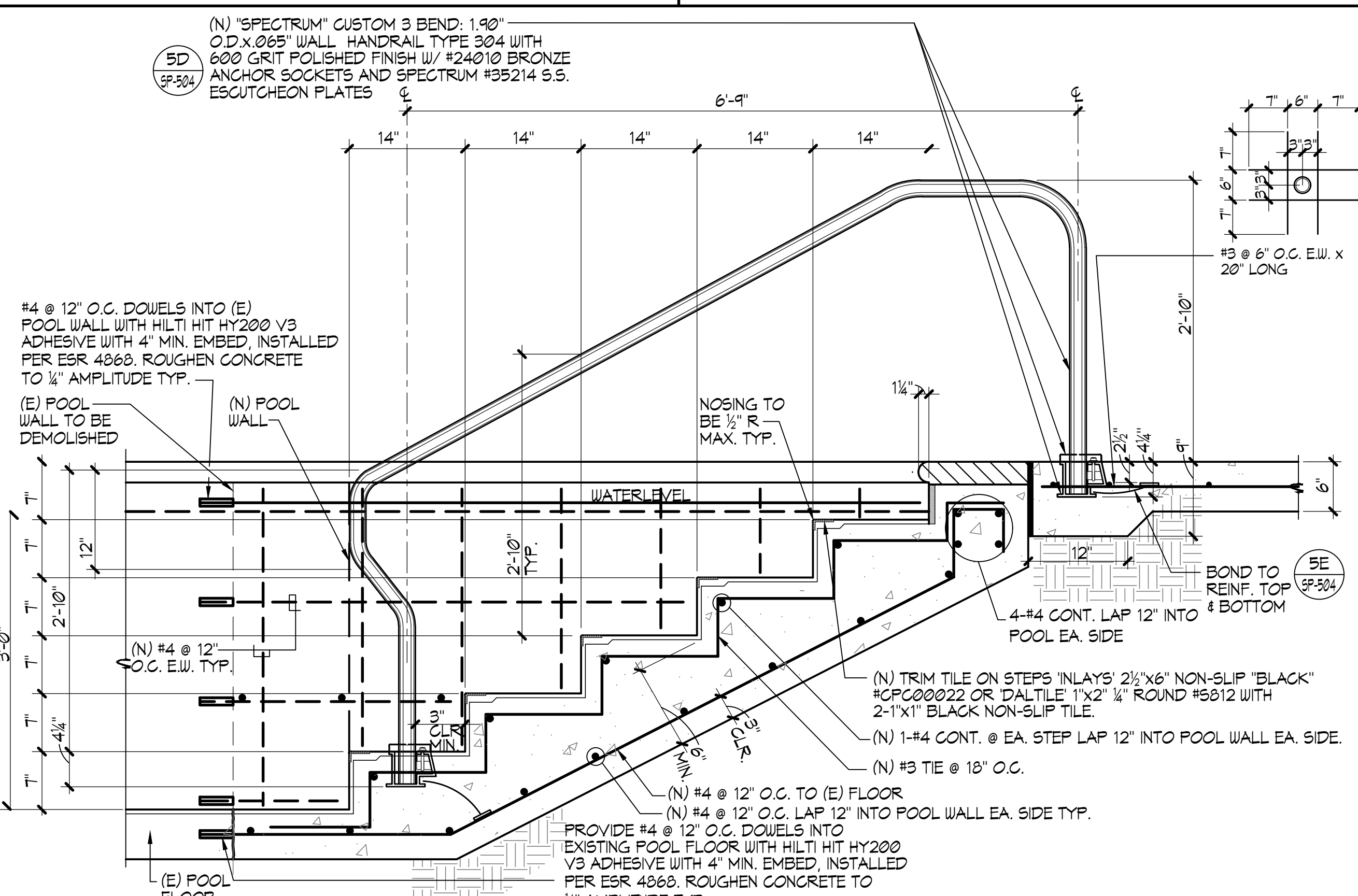
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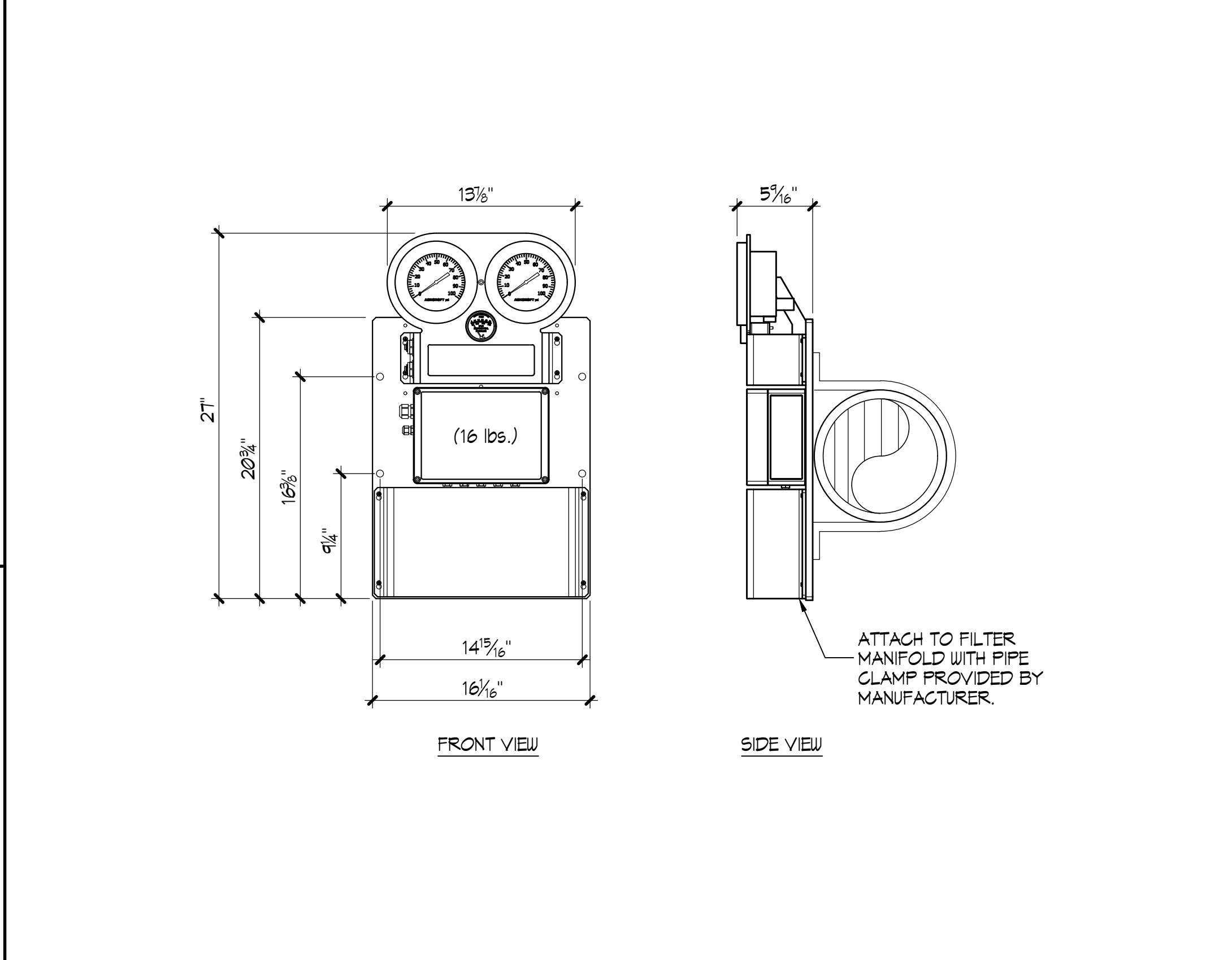
1 HEATER ANCHORAGE NO SCALE



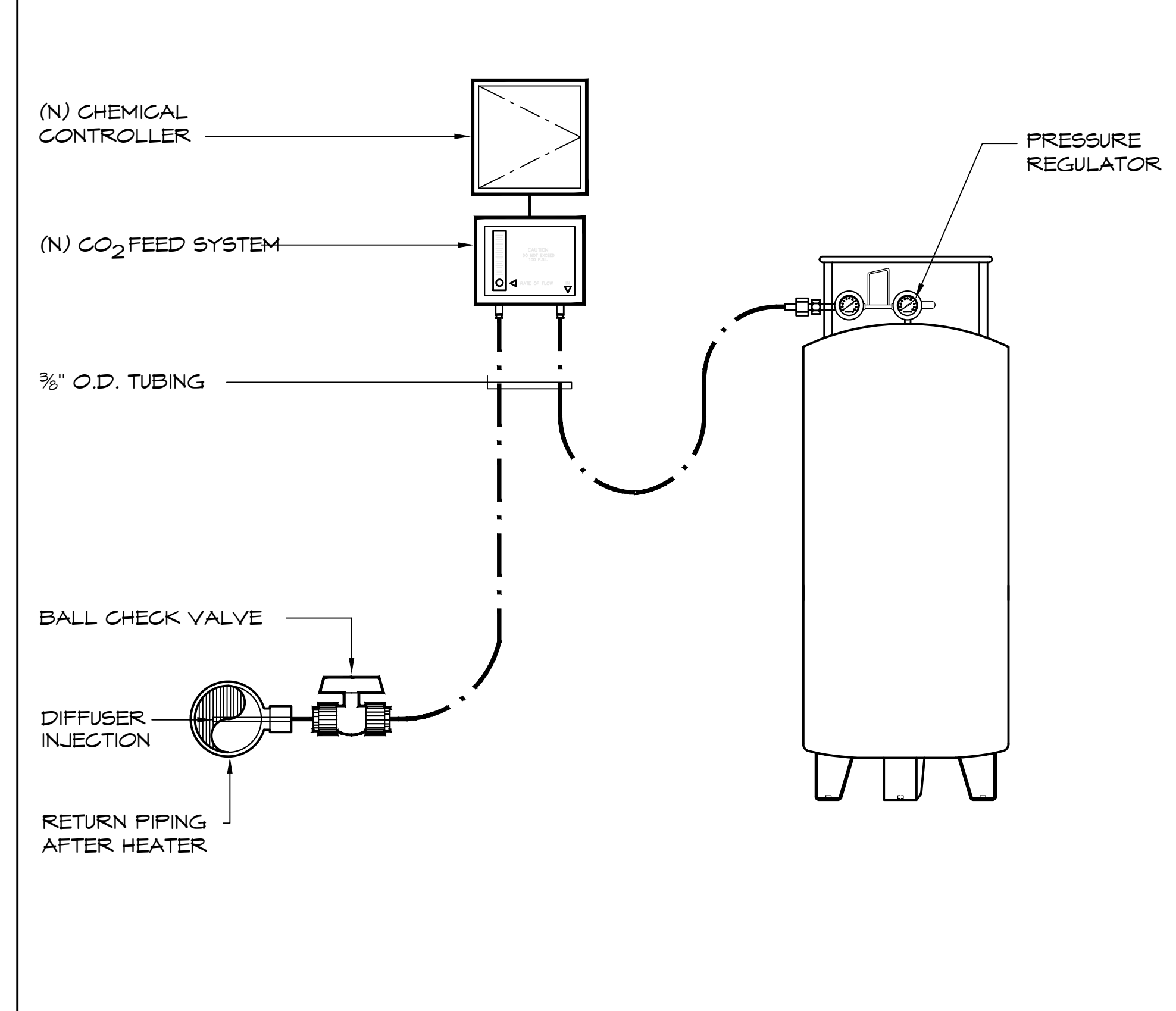
2 SMART PUMP CONTROL SYSTEM PANEL MOUNTING DETAIL NO SCALE



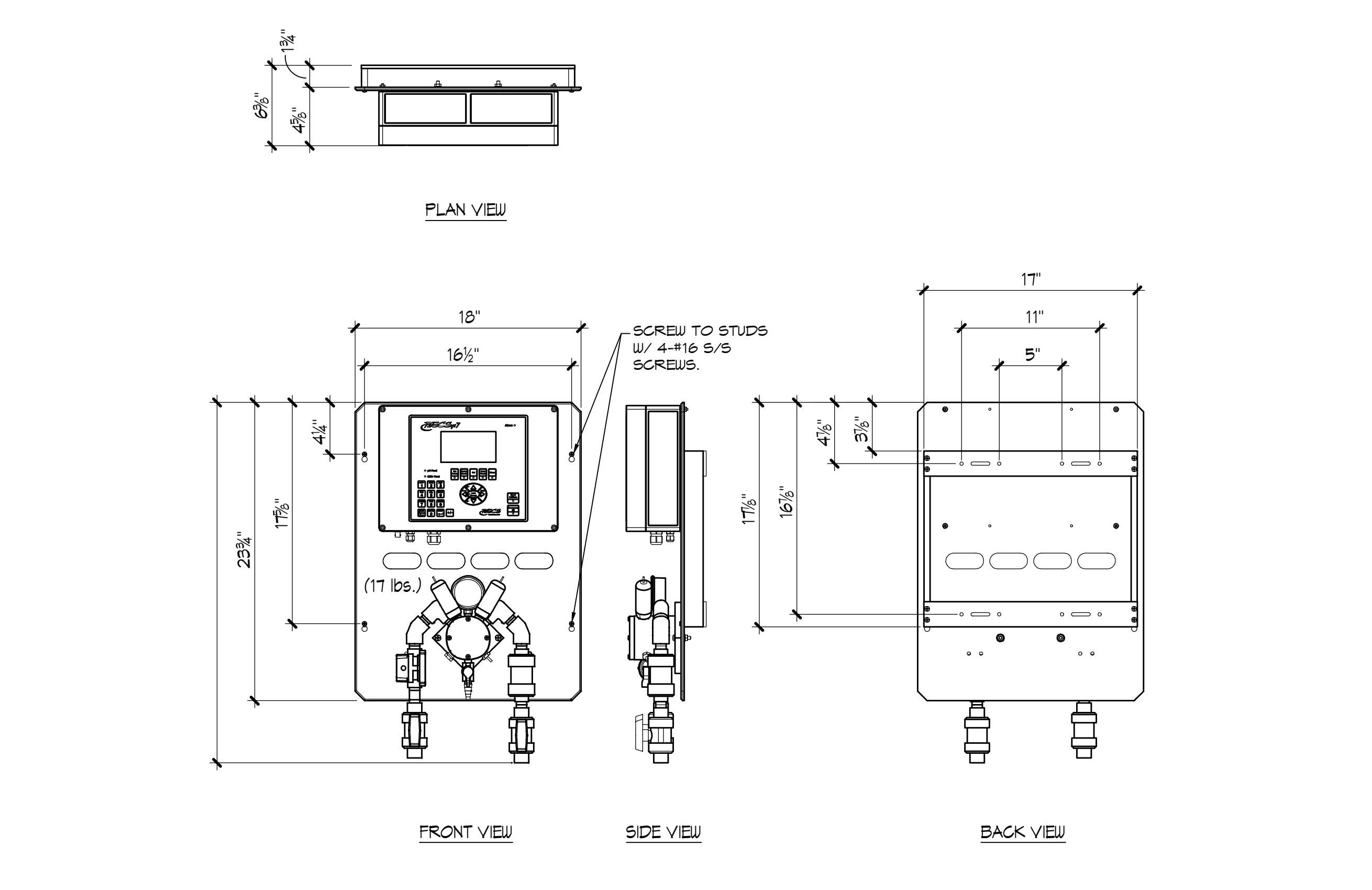
3 HANDRAIL DETAIL 1/2"=1'-0"



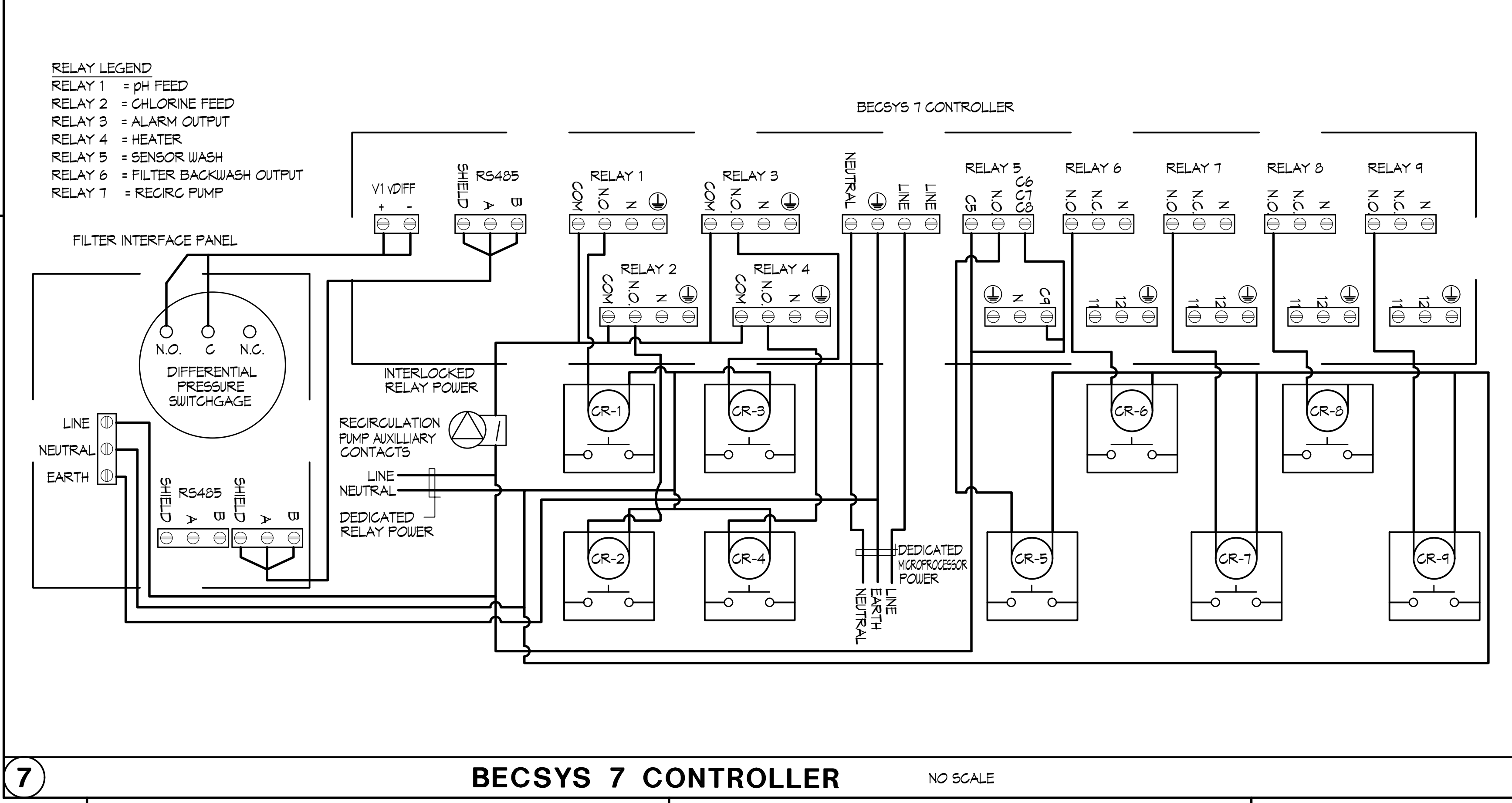
4 BECSYS FILTER INTERFACE SYSTEM 1/2"=1'-0"



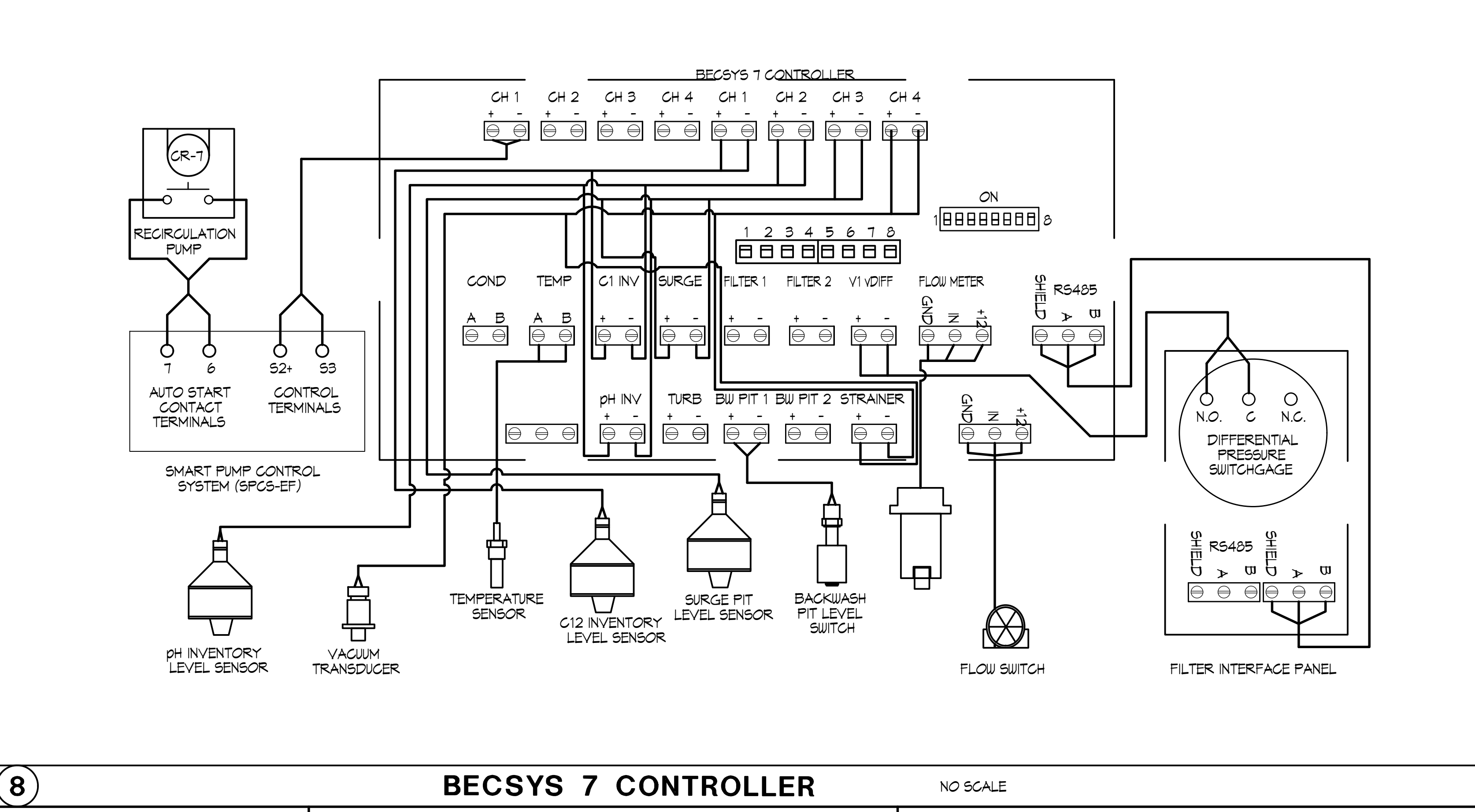
5 CARBON DIOXIDE FEED SCHEMATIC NO SCALE



6 BECSYS 7 WATER CHEMISTRY CONTROLLER 1/2"=1'-0"



7 BECSYS 7 CONTROLLER NO SCALE



8 BECSYS 7 CONTROLLER NO SCALE

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0.187" = 1"

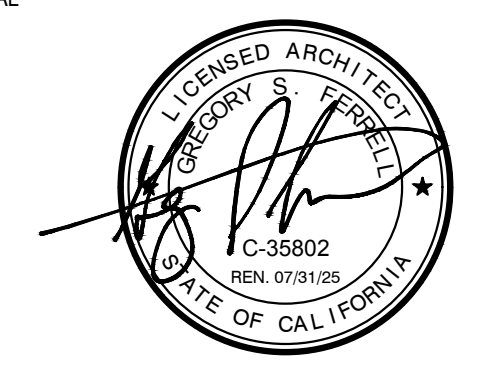
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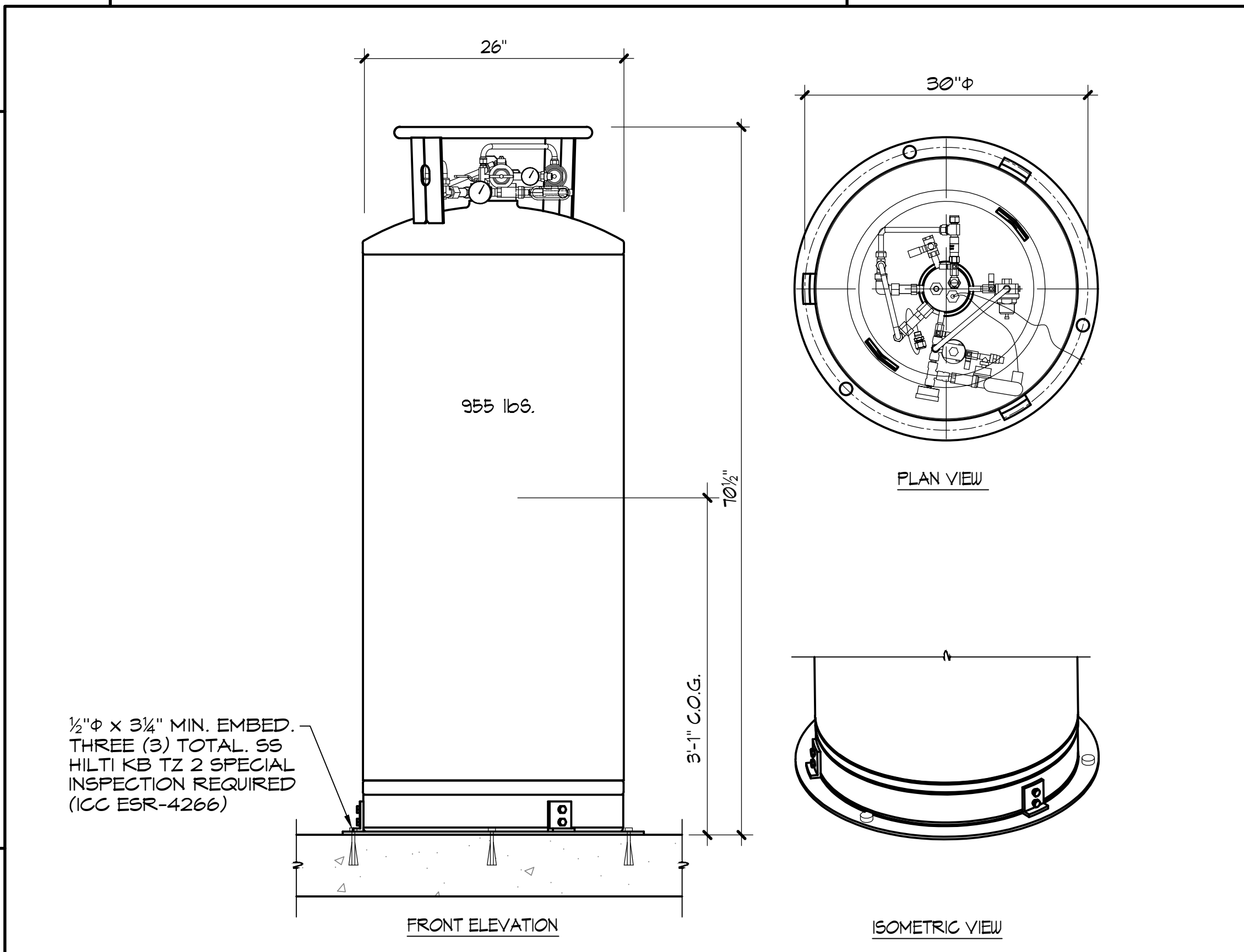
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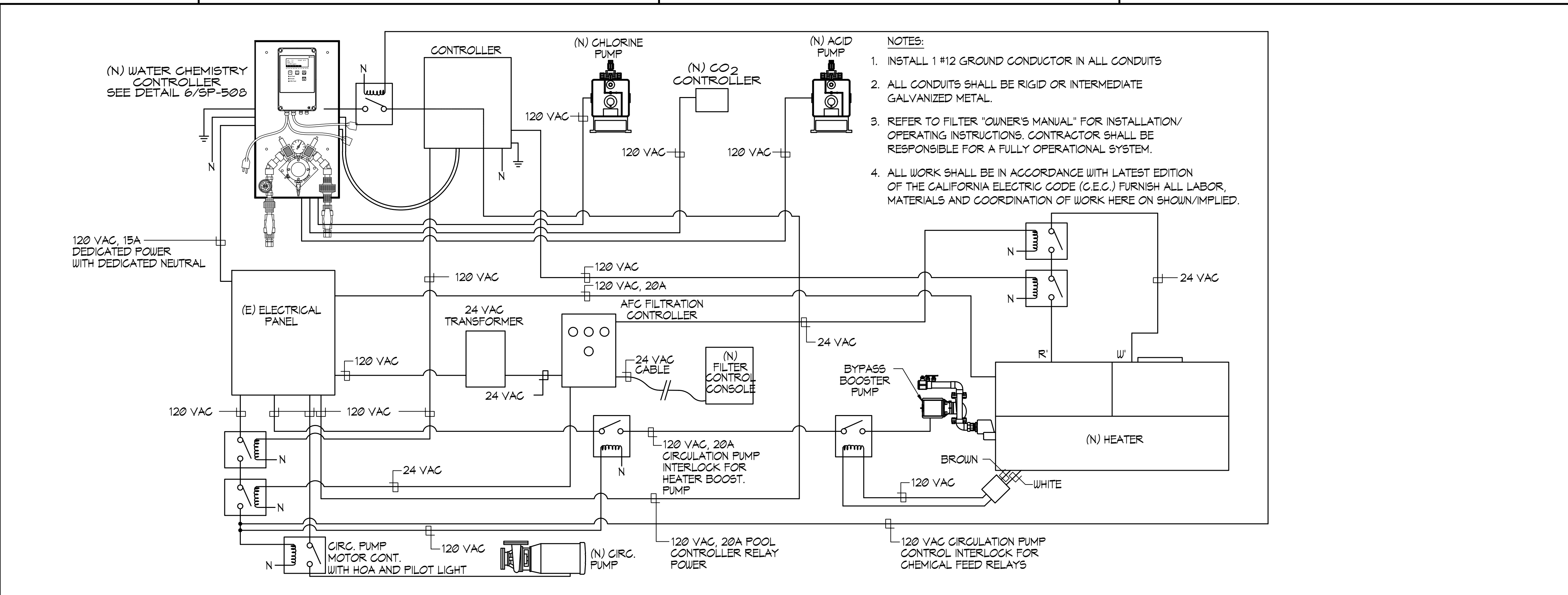
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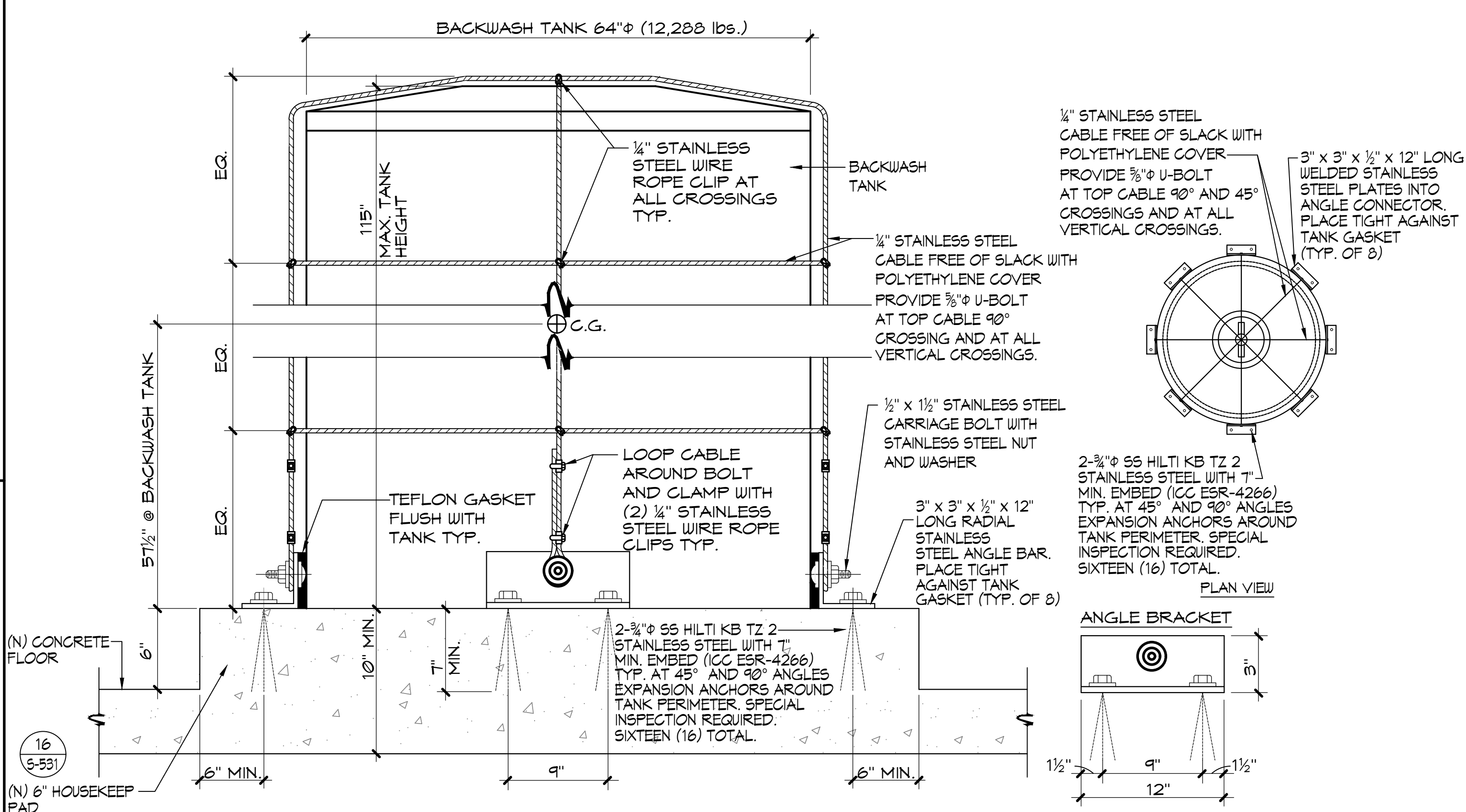
SHEET
SP-509



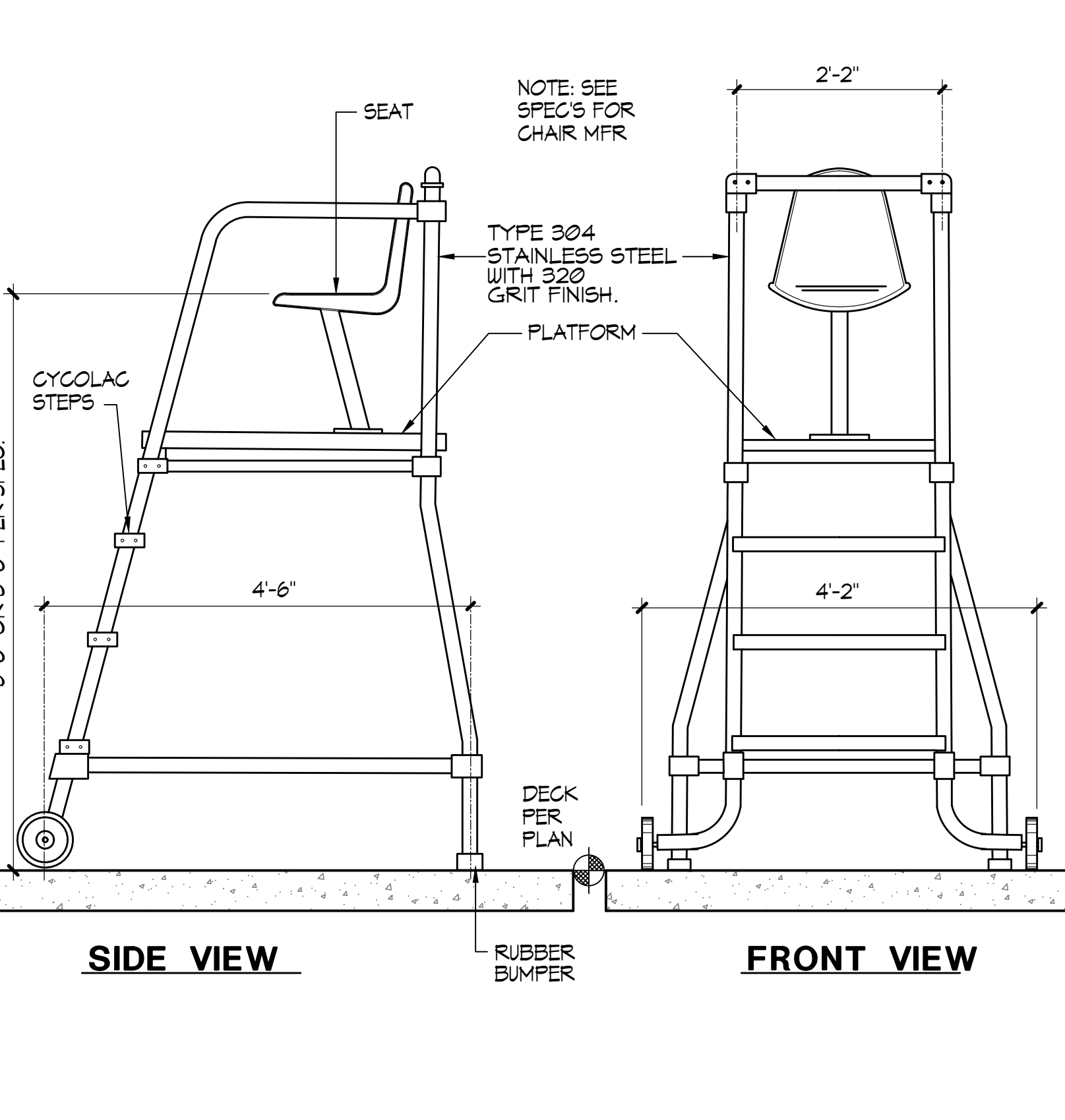
1 CO2 TANK ANCHORAGE DETAIL NO SCALE



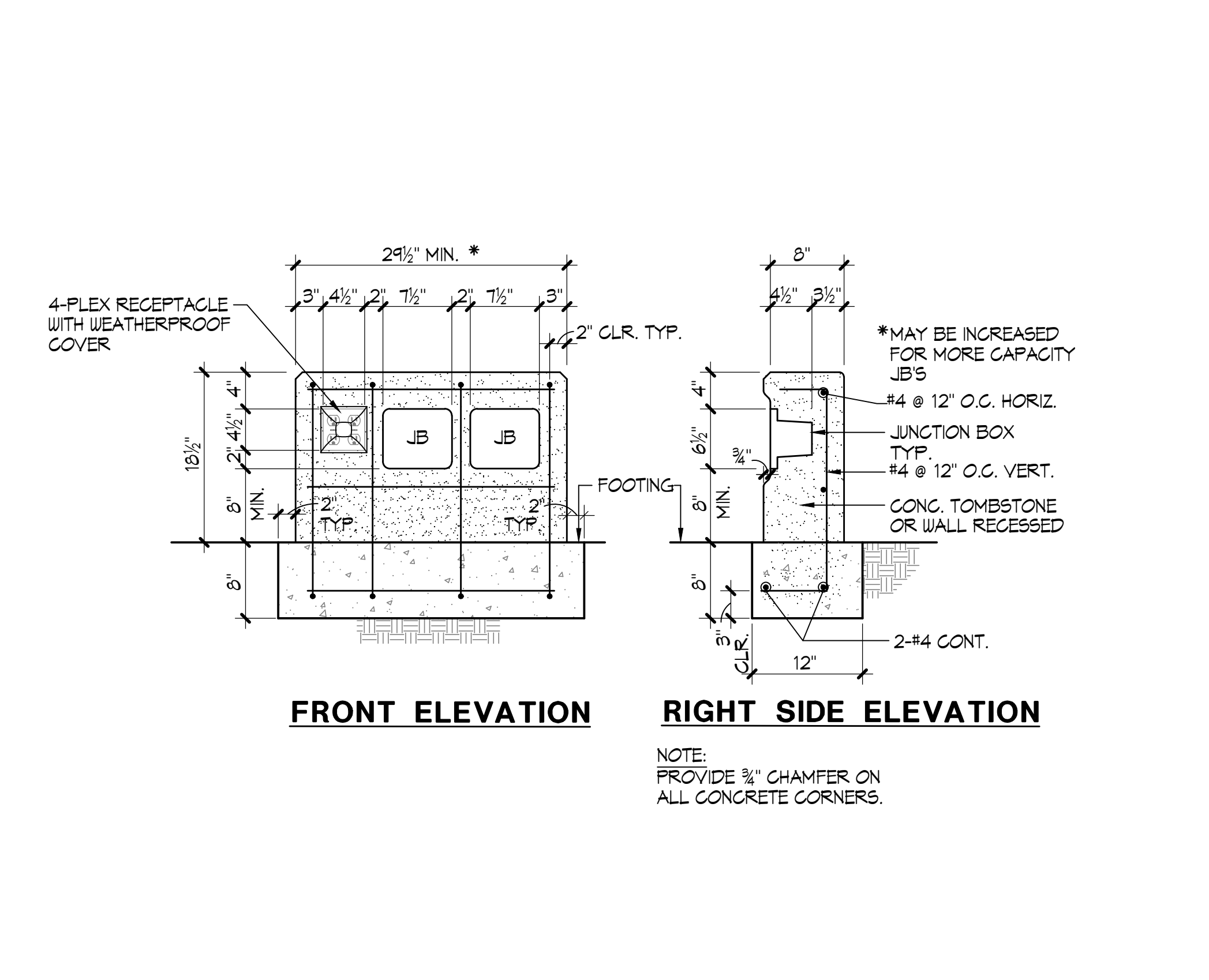
2 POOL MECHANICAL ELECTRICAL INTERCONNECTION DIAGRAM NO SCALE



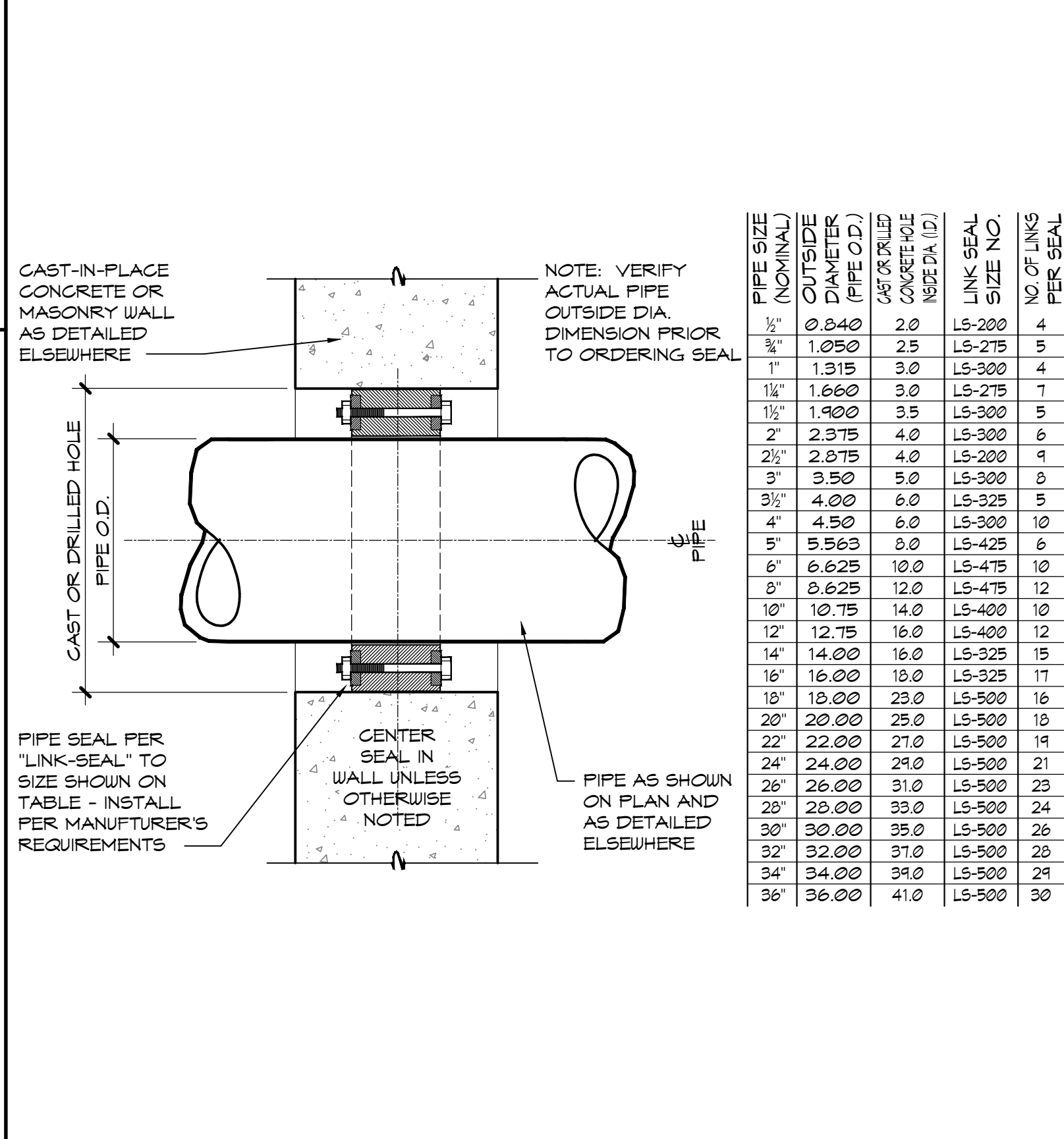
3 BACKWASH TANK ANCHOR NO SCALE



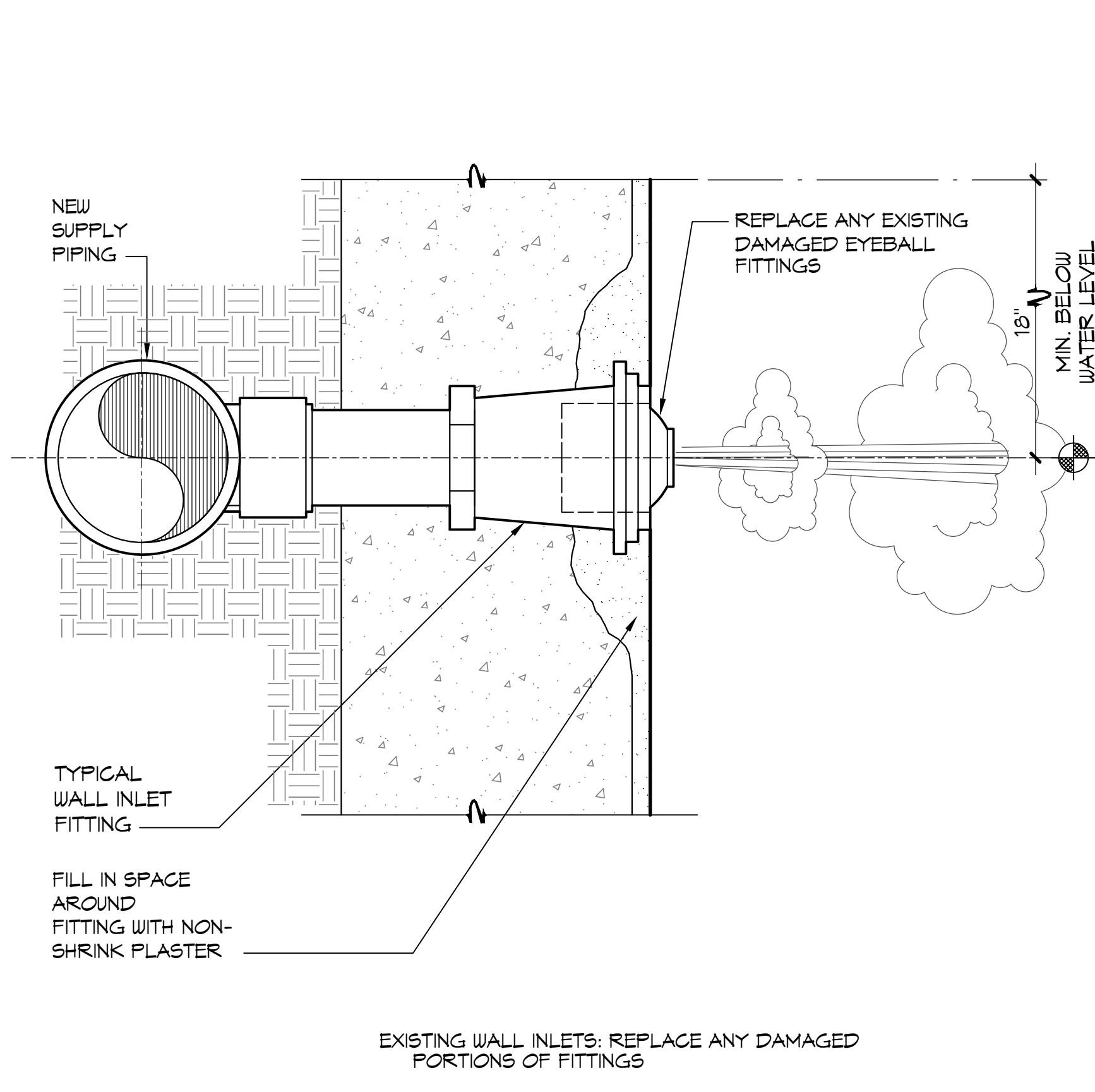
4 MOVEABLE LIFEGUARD CHAIR 3/8" = 1'-0"



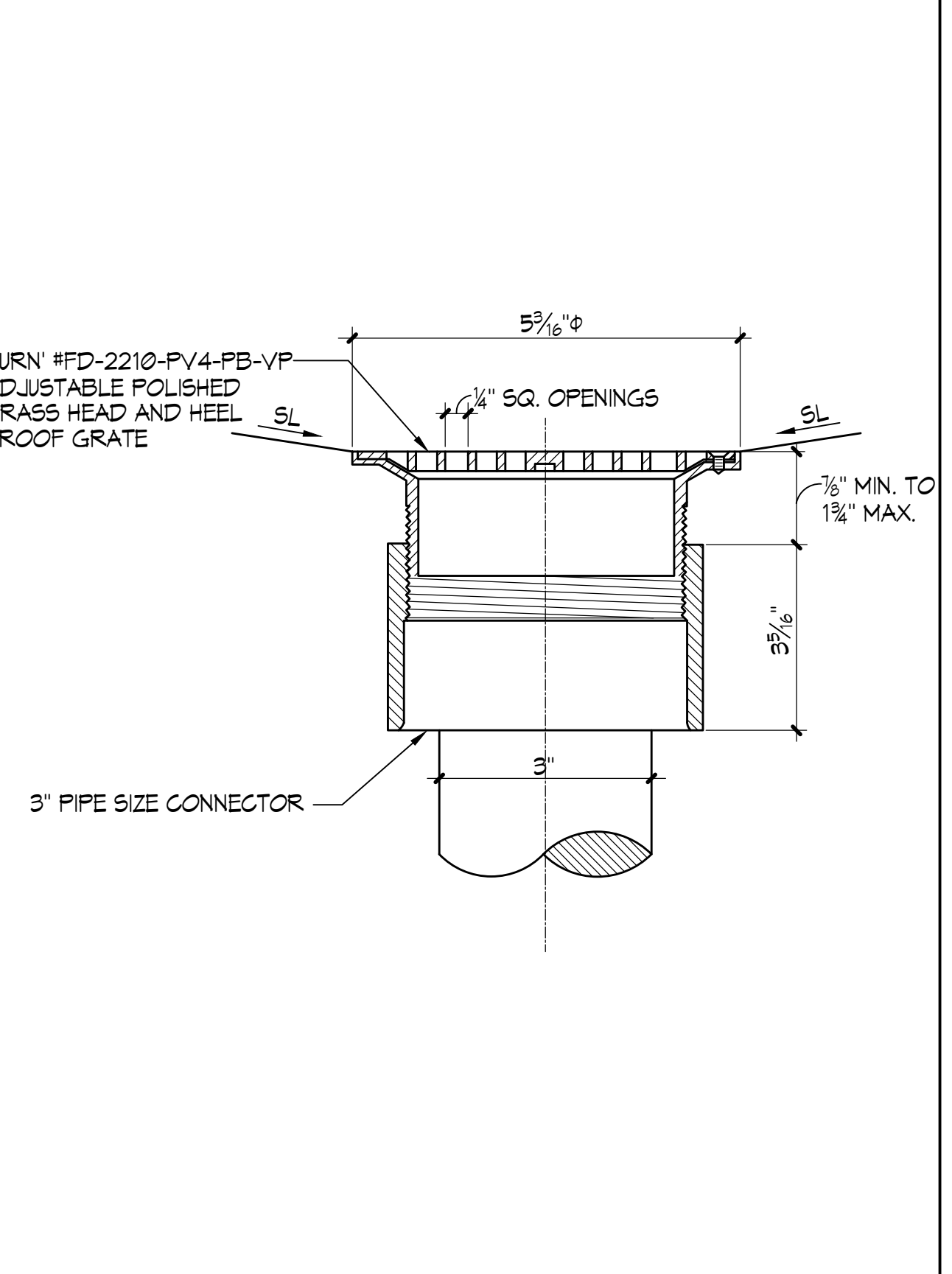
5 UNDERWATER LIGHT JUNCTION BOX CONCRETE SURROUND DETAIL 1" = 1'-0"



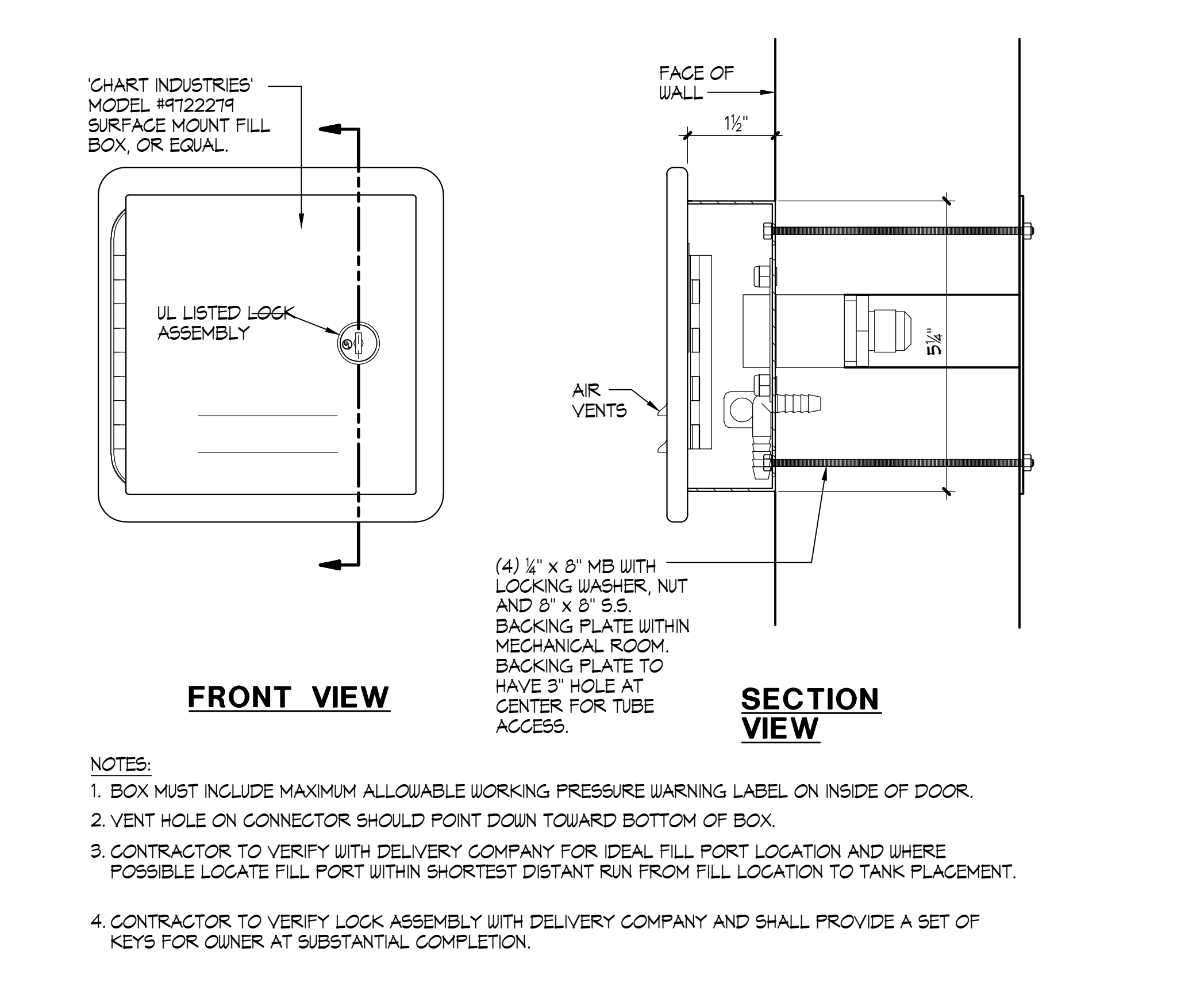
6 PIPE SEAL TO WALL / FLOOR NO SCALE



7 WALL INLET NO SCALE



8 DECK AREA DRAIN 1/2" = 1'



9 CO2 SURFACE MOUNT FILL BOX 6" = 1'-0"

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