

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

6715 GLORIA DR
SACRAMENTO, CA 95831

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

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

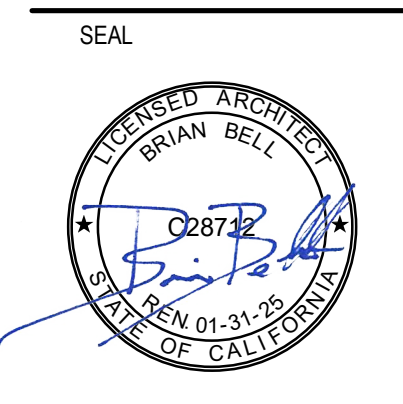
JOHN F KENNEDY HIGH SCHOOL SWIMMING POOL UPGRADE

DSA APPROVED SET APRIL 30, 2024

IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY

4/30/2024 9:35:36 AM Autodesk Docs: 020204.SOUSD_IPMIS Pool Upgrade/020204_ARCH/MSR_024_CENTRAL.rvt

ARCHITECTURAL SYMBOLS LEGEND	LIST OF ARCHITECTURAL ABBREVIATIONS	SHEET INDEX	GENERAL NOTES																																																																																																																																																																																																																																																														
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CJ CONSTRUCTION JOINT / CONTROL JOINT	FTG FOOTING	REF REFERENCE	WTR WATER																																																																																																																																																																																																																																																														
CL CENTER LINE	FURG FURRING	REF REFRIGERATOR	WWR WELDED WIRE REINFORCEMENT																																																																																																																																																																																																																																																														
CLG CEILING	FUT FUTURE	REIN REINFORCE / REINFORCING																																																																																																																																																																																																																																																															
CLR CLEAR	GA GAGE	REQD REQUIRED																																																																																																																																																																																																																																																															
CMU CONCRETE MASONRY UNIT	GALV GALVANIZED	RESIL RESILIENT																																																																																																																																																																																																																																																															
CNTR COUNTER	GB GRAB BAR	RM ROOM																																																																																																																																																																																																																																																															
COL COLUMN	GI GALVANIZED IRON	ROU ROUGH OPENING																																																																																																																																																																																																																																																															
CONC CONCRETE	GLU LAM GLUED LAMINATED WOOD	RWD REDWOOD																																																																																																																																																																																																																																																															
CONSTR CONSTRUCTION	GYP GYPSUM	RWL RAIN WATER LEADER																																																																																																																																																																																																																																																															
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COTG CLEANOUT TO GRADE	HC HOLLOW CORE	SATC SUSPENDED ACOUSTICAL TILE CEILING																																																																																																																																																																																																																																																															
CP CONTROL PANEL	HDBD HARDBOARD	SCHED SCHEDULE																																																																																																																																																																																																																																																															
CPT CARPET	HDW HARDWARE	SD STORM DRAIN																																																																																																																																																																																																																																																															
CRS COLD ROLLED STEEL	HM HOLLOW METAL	SDST SELF DRIVING, SELF TAPPING SHEET																																																																																																																																																																																																																																																															
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		SST STAINLESS STEEL																																																																																																																																																																																																																																																															

 | | | | | |--|--|--|---| | GENERAL | G-001 COVER SHEET | GA101 ACCESSIBILITY SITE PLAN | GL111 LIFE SAFETY FLOOR PLAN - POOL | | CIVIL | C101 CIVIL TITLE SHEET | VF101 TOPOGRAPHIC SURVEY | VF102 TOPOGRAPHIC SURVEY | | CD101 SURFACE DEMOLITION PLAN | CS101 HORIZONTAL CONTROL PLAN | CG101 GRADING PLAN | | | STRUCTURAL | S-001 GENERAL NOTES | S-011 TYPICAL NOTES | S-012 TYPICAL NOTES | | S-111 PARTIAL FOUNDATION & CEILING FRAMING PLANS | S-132 PARTIAL PLAN - ROOF FRAMING | S-531 DETAILS - TYPICAL CONCRETE | S-532 DETAILS - TYPICAL CONCRETE | | S-551 DETAILS - STRUCTURAL STEEL | | | | | ARCHITECTURAL | AD111 DEMOLITION FLOOR PLAN - LEVEL 1 | A-111 FLOOR PLAN - LEVEL 1 | A-511 DECORATIVE METAL FENCE & GATE DETAILS | | A-531 PARTITION TYPES & SCHEDULE | A-532 DETAILS | | | | PLUMBING | P-001 PLUMBING NOTES, LEGEND & ABBREVIATIONS | P-002 PLUMBING EQUIPMENT SCHEDULE | P-101 PLUMBING SITE PLAN | | P-211 PLUMBING DEMO PLAN | P-211 PLUMBING FLOOR PLAN | P-411 ENLARGED PLUMBING DEMO & CONSTRUCTION PLAN | P-501 PLUMBING DETAILS | | P-502 PLUMBING DETAILS | P-701 TITLE 24 COMPLIANCE | | | | ELECTRICAL | E001 ELECTRICAL SHEET INDEX, NOTES AND ABBREVIATIONS | E002 ELECTRICAL SYMBOL LEGEND | E101 ELECTRICAL SITE PLAN | | E201 POWER FLOOR PLAN | E301 DEMO POWER FLOOR ENLARGED PLAN | E501 POWER FLOOR ENLARGED PLAN | E601 ELECTRICAL SCHEDULES AND DETAILS | | POOL | SP-111 SWIMMING POOL / DIVING POOL DEMOLITION PLAN | SP-112 SWIMMING POOL / DIVING POOL DECK PLAN | SP-113 SWIMMING POOL LAYOUT PLAN | | SP-114 DIVING POOL LAYOUT PLAN | SP-115 SWIMMING POOL / DIVING POOL PIPING PLAN | SP-116 SWIMMING POOL / DIVING POOL UNDERWATER LIGHT PLAN | SP-311 SWIMMING POOL SECTIONS | | SP-312 DIVING POOL SECTIONS | SP-411 MECHANICAL ROOM DEMOLITION PLAN | SP-412 MECHANICAL ROOM LAYOUT PLAN | SP-501 DETAILS | | SP-502 DETAILS | SP-503 DETAILS | SP-504 DETAILS | SP-505 DETAILS | | SP-506 DETAILS | SP-507 DETAILS | SP-508 DETAILS | SP-509 DETAILS | | - CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES ETC. PRIOR TO CONSTRUCTION. - CONTRACTOR SHALL NOTIFY ARCHITECT WHERE CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES. - WHERE REQUIRED, ROOM OCCUPANCY CAPACITIES SHALL BE POSTED WITH THE REQUIREMENTS OF CALIFORNIA STATE FIRE MARSHAL & CBC 1004.9. - CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS, INCLUDING BUT NOT LIMITED TO: - TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS - TITLE 24 CCR, PART 1 - 2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE - TITLE 24 CCR, PART 2 - 2022 CALIFORNIA BUILDING CODE, VOL 1 & 2 (CBC) - TITLE 24 CCR, PART 3 - 2022 CALIFORNIA ELECTRICAL CODE (CEC) - TITLE 24 CCR, PART 4 - 2022 CALIFORNIA MECHANICAL CODE (CMC) - TITLE 24 CCR, PART 5 - 2022 CALIFORNIA PLUMBING CODE (CPC) - TITLE 24 CCR, PART 6 - 2022 CALIFORNIA ENERGY CODE - TITLE 24 CCR, PART 9 - 2022 CALIFORNIA FIRE CODE (CFC) - TITLE 24 CCR, PART 11 - 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE - TITLE 24 CCR, PART 12 - 2022 CALIFORNIA REFERENCED STANDARDS - 2022 NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED) - 2019 NFPA 14, INSTALLATION OF SPRINKLER AND HOSE SYSTEMS - 2021 NFPA 17, DRY CHEMICAL EXTINGUISHING SYSTEMS - 2021 NFPA 17A, WET CHEMICAL EXTINGUISHING SYSTEMS - 2022 NFPA 20, INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION - 2019 NFPA 22, WATER TANKS FOR PRIVATE FIRE PROTECTION - 2019 NFPA 24, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES - 2013 NFPA 25, INSPECTION, TESTING, MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS (CA AMENDED) - 2022 NFPA 72, NATIONAL FIRE ALARM CODE (CA AMENDED) - 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN - CHANGES TO THE APPROVED DRAWINGS OR SPECIFICATIONS SHALL BE MADE BY APPENDIX OR CONSTRUCTION CHANGE DOCUMENTS (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY THE SECTION 4-338 OF CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 1, (CAC 4-338) SUBSTITUTIONS OF PRODUCTS OR PROCESSES WHICH AFFECT STRUCTURAL SAFETY, FIRE AND LIFE-SAFETY, OR ACCESSIBILITY SHALL BE SUBMITTED AS AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT TO DSA FOR REVIEW AND APPROVAL. - A CLASS 3 PROJECT INSPECTOR EMPLOYED BY THE DISTRICT AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. - CONSTRUCTION AND DEMOLITION SHALL CONFORM TO 2022 CFC, CHAPTER 33. - A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT. - THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24, CCR) - GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES. - LIONAKIS WILL NOT PROVIDE ANY INFORMATION CONCERNING HAZARDOUS MATERIAL. CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR HAZARDOUS MATERIAL SCOPE AND REQUIREMENTS. |

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

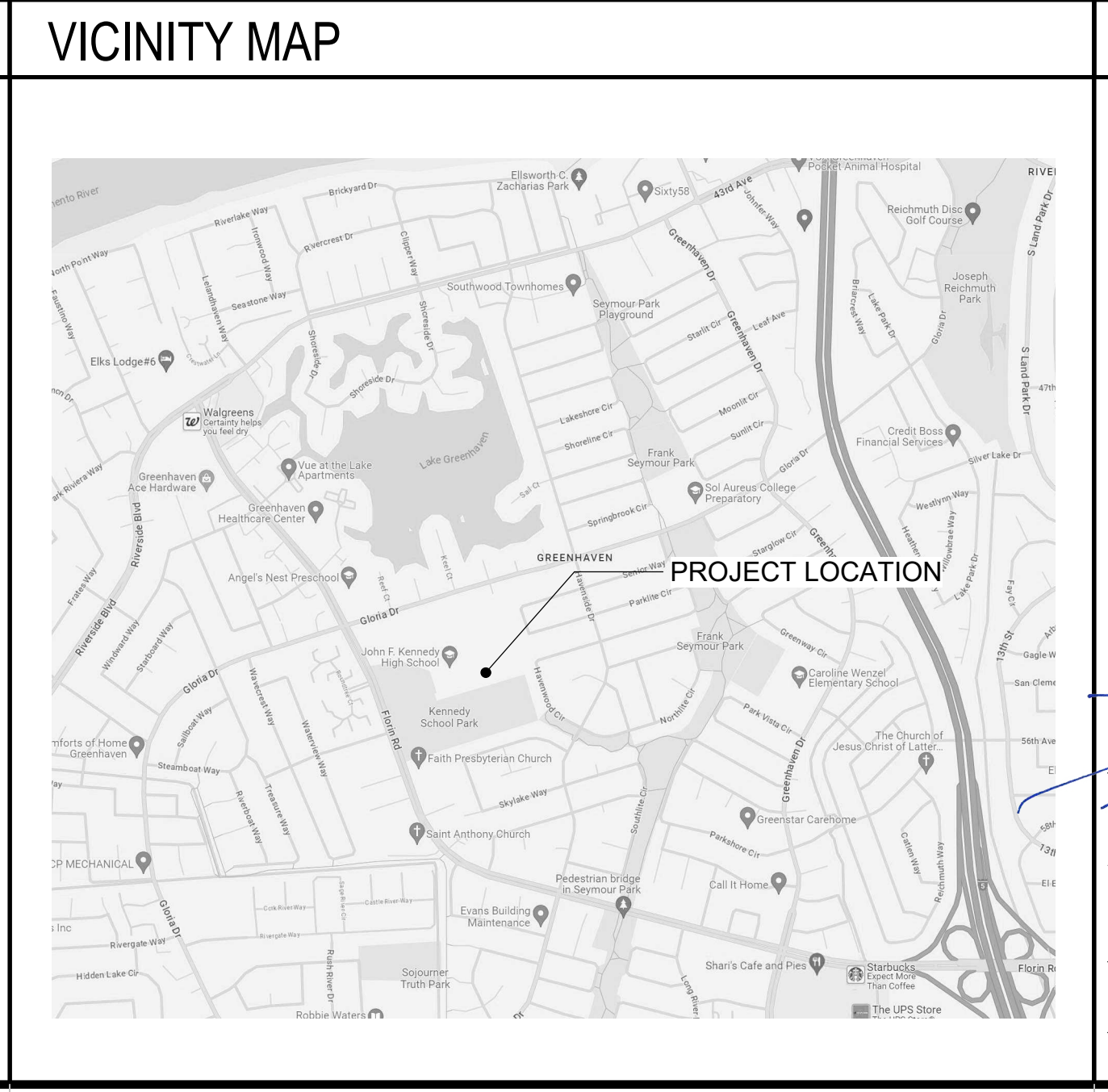
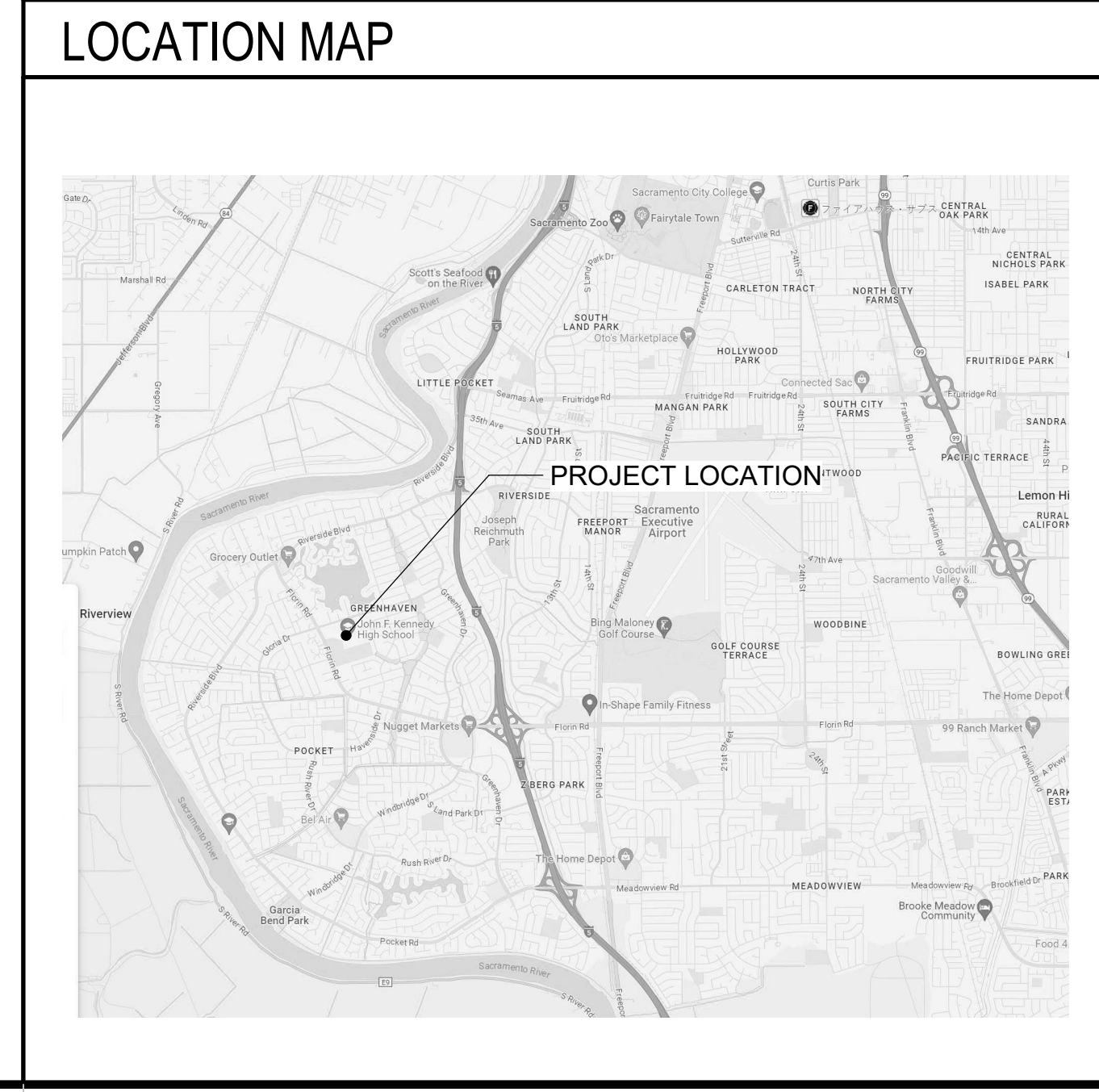
SCOPE OF PROJECT

SCOPE OF WORK CONSISTS OF THE FOLLOWING:

- ALTERATION TO EXISTING SWIMMING AND DIVING POOLS INCLUDING POOL DECK REPLACEMENT, NEW ADA ACCESS LIFTS, AND PATH OF TRAVEL AS REQUIRED
- ALTERATION TO BUILDING UNIT H FOR WORK IN MECHANICAL ROOM AND RESTROOM, INCLUDING REPLACEMENT OF POOL EQUIPMENT IN MECHANICAL ROOM.
- ALTERATION TO BUILDING UNIT J FOR WORK IN EXISTING RESTROOM.

DEFERRED SUBMITTALS

NONE.



GENERAL STATEMENT

DSA APPLICATION NO. 02-122170 FILE NO. 34-H7

THE CIVIL, ELECTRICAL, LANDSCAPE, AND OTHER LISTED DRAWINGS IN THE SHEET INDEX AND SPECIFICATIONS HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY ME FOR THE DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND PROJECT SPECIFICATIONS PREPARED BY ME AND COORDINATION WITH MY PLANS AND SPECIFICATIONS IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL PERFORMANCE SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341, AND 4-344 OF TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 4-317 (b)).

I FIND THAT: ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET THIS DRAWING OR PAGE

IS/ARE IN GENERAL CONFORMANCE WITH PROJECT PLANS AND HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS

IS/ARE IN GENERAL CONFORMANCE WITH PROJECT PLANS AND HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS

Brian Bell 11/01/2023
SIGNATURE DATE

ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

Brian Bell 01/31/2025
PRINTED NAME EXPIRATION DATE

ARCHITECT OR ENGINEER DELEGATED TO BE RESPONSIBLE FOR THIS PORTION OF THE WORK

Brian Bell 01/31/2025
PRINTED NAME EXPIRATION DATE

PROJECT DIRECTORY

OWNER
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
5735 7TH AVENUE,
SACRAMENTO, CA 95824
CONTACT: CHRIS RALSTON
PHONE: 916.395.3970
EMAIL: CHRIS.RALSTON@SCUSD.EDU

STRUCTURAL ENGINEER
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PHONE: 916.558.1900
EMAIL: LUCAS.JOLLY@LIONAKIS.COM

CIVIL ENGINEER
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RANCHO CORDOVA, CA 95670
CONTACT: SETH NISBET
PHONE: (916) 985-1970
EMAIL: SETH@WCEINC.COM

MECHANICAL ENGINEER
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11020 SUN CENTER DR.
RANCHO CORDOVA, CA 95670
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POOL ENGINEER
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2226 FARADAY AVE
CARLSBAD, CA 92008
CONTACT: MICHELLE GABLE
PHONE: 760.438.8400
EMAIL: MGABLE@AQUATICDESIGNGROUP.COM

ELECTRICAL ENGINEER
LP CONSULTING ENGINEERING
1209 PLEASANT GROVE BLVD,
ROSELVILLE, CA 95678
CONTACT: TOM SCHLEPP
PHONE: (916) 771-0778
EMAIL: TSCHELEPP@PEENGINEERS.COM

SHEET IDENTIFICATION LEGEND

DISCIPLINE DESIGNATORS - LEVEL 1	SHEET TYPE DESIGNATORS
G GENERAL	0 - GENERAL
H HAZARDOUS MATERIALS	1 - PLANS
V SURVEY/MAPPING	2 - ELEVATIONS
B GEOTECHNICAL	3 - SECTIONS
C CIVIL	4 - LARGE SCALE VIEWS
L LANDSCAPE	5 - DETAILS
S STRUCTURAL	6 - SCHEDULES & DIAGRAMS
A ARCHITECTURAL	7 - USER DEFINED
I INTERIORS	8 - USER DEFINED
O EQUIPMENT	9 - 3D REPRESENTATIONS
P FIRE PROTECTION	
PL PLUMBING	
D PROCESS	
M MECHANICAL	
E ELECTRICAL	
W DISTRIBUTED ENERGY	
T TELECOMMUNICATIONS	
R RESOURCE	
X OTHER DISCIPLINES	
Z CONTRACTOR/SHOP DRAWINGS	
O OPERATIONS	

BUILDING IDENTIFIER - WHERE OCCURS
DISCIPLINE DESIGNATOR - LEVEL 1
DISCIPLINE DESIGNATOR - LEVEL 2
REPLACE DASH WHERE OCCURS

SHEET TYPE DESIGNATOR
SHEET TYPE SUBSET DESIGNATOR
LEVEL/SEQUENCE DESIGNATOR
AREA IDENTIFIER - WHERE OCCURS
UNIQUE PORTION IDENTIFIER - WHERE OCCURS

C.A-123AB

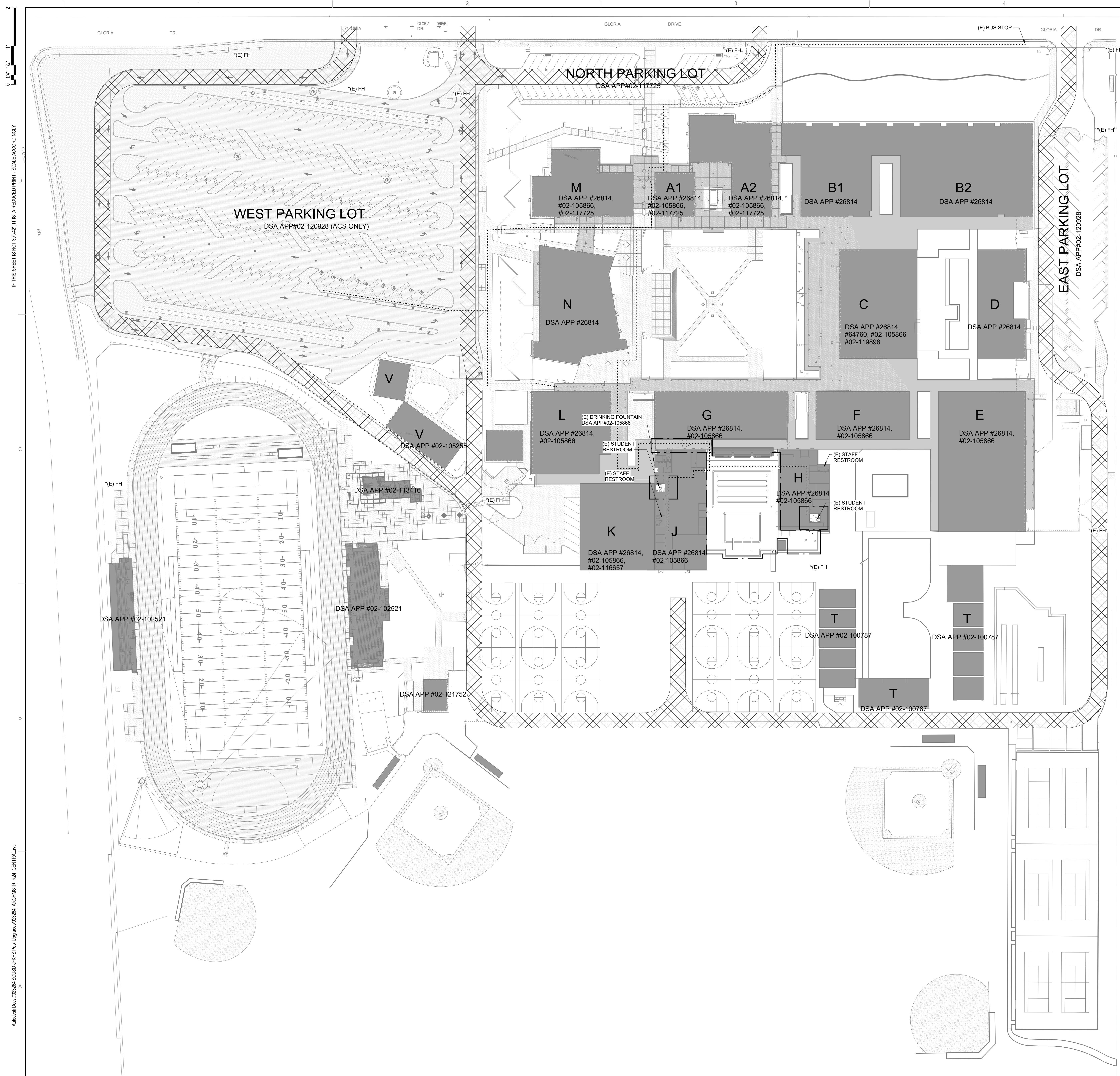
MANAGEMENT
LIONAKIS PROJECT NO. 020204
CLIENT PROJECT NO.
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COVER SHEET

TITLE

SHEET

G-001

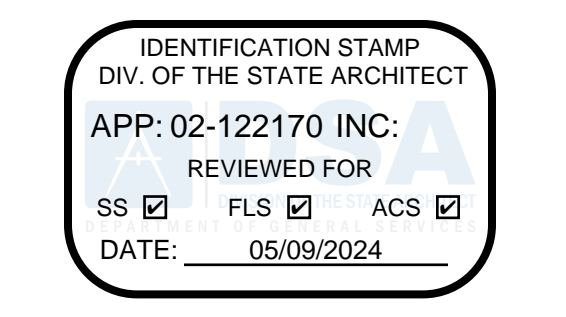


GENERAL NOTES

1. ACCESSIBLE ROUTE COMPONENTS INCLUDE BUT ARE NOT LIMITED TO
- AT LEAST 48" IN WIDTH OR AS APPROVED BY CODE
 - WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING 1/4"
 - WITH A FIRM, STABLE, AND SLIP RESISTANT WALKING SURFACE;
 - WITH A RUNNING SLOPE OF 1:20 OR LESS;
 - WITH RUNNING SLOPE OF CODE COMPLIANT RAMPS, NOT TO EXCEED 8.33% (1:12), (RAMPS COMPLY WITH 118-405);
 - WITH REQUIRED LANDINGS AND LEVEL AREAS WITH A SLOPE OF 1:48 OR LESS;
 - WITH A CROSS SLOPE OF 1:48 OR LESS;
 - WITH OPENINGS IN DRAINS AND GRATINGS NOT TO EXCEED 1/2" IN PREDOMINANT DIRECTION OF TRAVEL;
 - IS FREE OF OVERHEAD OBSTRUCTIONS WITHIN 80" ABOVE THE WALKING SURFACE; AND
 - IS FREE OF OBJECTS WHICH PROTRUDE MORE THAN 4" BETWEEN THE HEIGHTS OF 27" AND 80" ABOVE THE WALKING SURFACE.
 - ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

LEGENDS

- B BOY'S RESTROOM
- G GIRLS RESTROOM
- U UNISEX RESTROOM
- SM MENS STAFF RESTROOM
- SW WOMENS STAFF RESTROOM
- RESTROOM LOCATION
- ACCESSIBLE RESTROOM
- ACCESSIBILITY PATH OF TRAVEL
- DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS AS PART OF THE DESIGN OF THIS PROJECT. THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECTS WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.
- DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCOMPLYING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.
- LIMITS OF ARCHITECTURAL SCOPE OF WORK
- (E) COVERED WALKWAY
- (E) BLDG WITH NO SCOPE OF WORK
- (E) FIRE ACCESS LANE
- (E) FH (E) FIRE HYDRANT

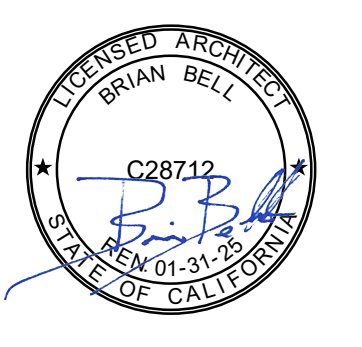


LIONAKIS

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

CONSULTANT

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:	023264
CLIENT PROJECT NO:	
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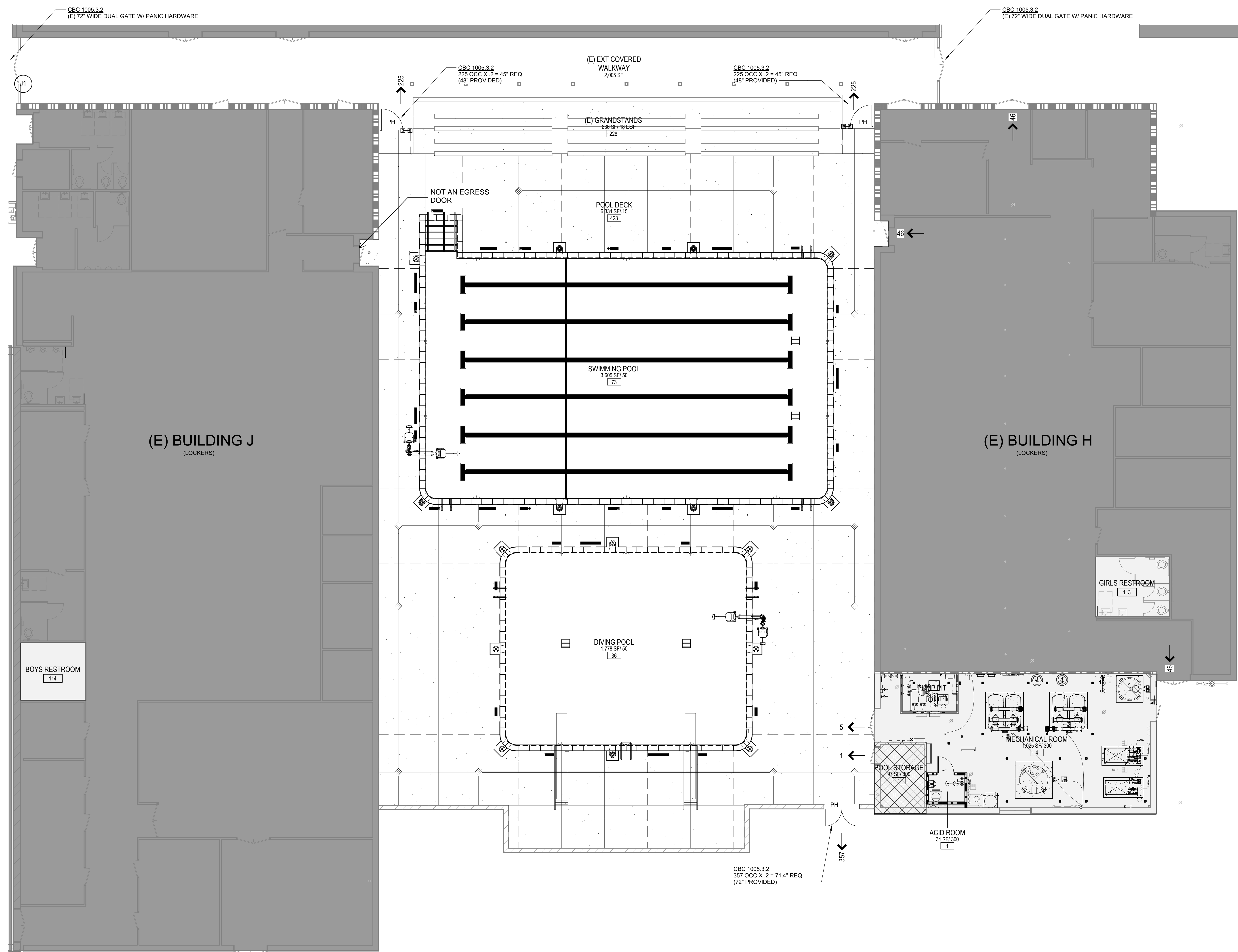
TITLE
**ACCESSIBILITY SITE
PLAN**

SHEET
GA101

0 1/4" = 1'

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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EXISTING POOL AREA ANALYSIS

1. GOVERNING CODE: 2022 CALIFORNIA BUILDING CODE

2. OCCUPANCY TYPE: (CBC CHAPTER 3)
 EXISTING GROUP E OCCUPANCY (BUILDING H & J)
 EXISTING GROUP A-5 OCCUPANCY (EXTERIOR POOL AREA)

3. (E) CONSTRUCTION TYPE: (CBC CHAPTER 6)

BUILDING H	TYPE V-A (NON-SPRINKLERED)
BUILDING J	TYPE V-A (NON-SPRINKLERED)
POOL	N/A

NOTE: (E) SPRINKLERS EXISTS ONLY AT BUILDING H MECHANICAL ROOM

4. (E) BUILDING AREA:

	GROUP E	GROUP A-5	GROUP S
BUILDING H	9,069 SF		1,380 SF
BUILDING J	8,270 SF		
POOL		11,654 SF	

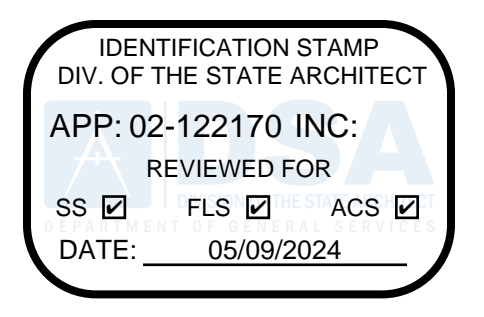
5. (E) BUILDING HEIGHT:

BUILDING H	17'-10"
BUILDING J	17'-5"
POOL	N/A

6. (E) OCCUPANT LOAD: (CBC CHAPTER 10)

BUILDING H	6,872 SF/50 = 138 OCCUPANTS
BUILDING J	1,398 SF/300 = 5 OCCUPANTS (MECH + POOL STORAGE)
POOL	761 OCCUPANTS

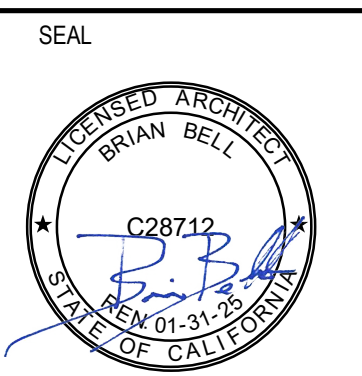
NOTE: SCOPE OF WORK DOES NOT CHANGE EXISTING SF, OCCUPANCY LOAD, AND OCCUPANCY GROUP



LIONAKIS

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CONSULTANT



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

CLIENT
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

LEGEND

150 SF/20	ROOM USE	150 SF/20	ROOM USE
7	SQUARE FOOTAGE / OCCUPANT FACTOR	7	SQUARE FOOTAGE / OCCUPANT FACTOR
→ 0	OCCUPANT LOAD	→ 0	OCCUPANT LOAD
0	EXIT AND NUMBER OF OCCUPANTS USING EXIT ACCESS	0	EXIT AND NUMBER OF OCCUPANTS USING EXIT ACCESS
PH	PANIC HARDWARE	PH	PANIC HARDWARE
(E) A-5 OCCUPANCY WITH SCOPE OF WORK		(E) S OCCUPANCY WITH SCOPE OF WORK	
(E) E OCCUPANCY WITH NO SCOPE OF WORK		(E) E OCCUPANCY WITH NO SCOPE OF WORK	
(E) S OCCUPANCY WITH NO SCOPE OF WORK		(E) S OCCUPANCY WITH NO SCOPE OF WORK	
(E) 2-HR FIRE SEPARATED WOOD STUD FRAMED WALLS		(E) 2-HR FIRE SEPARATED WOOD STUD FRAMED WALLS	
(E) 1-HR FIRE SEPARATED "MODULAR" SYSTEM PARTITION		(E) 1-HR FIRE SEPARATED "MODULAR" SYSTEM PARTITION	
1-HR SHAFT FIRE BARRIER		1-HR SHAFT FIRE BARRIER	

MARK	DATE	DESCRIPTION

MANAGEMENT
 LIONAKIS PROJECT NO: 023264
 CLIENT PROJECT NO: LIONAKIS 2017
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1 LIFE SAFETY FLOOR PLAN - POOL
 SCALE 1/8" = 1'-0"

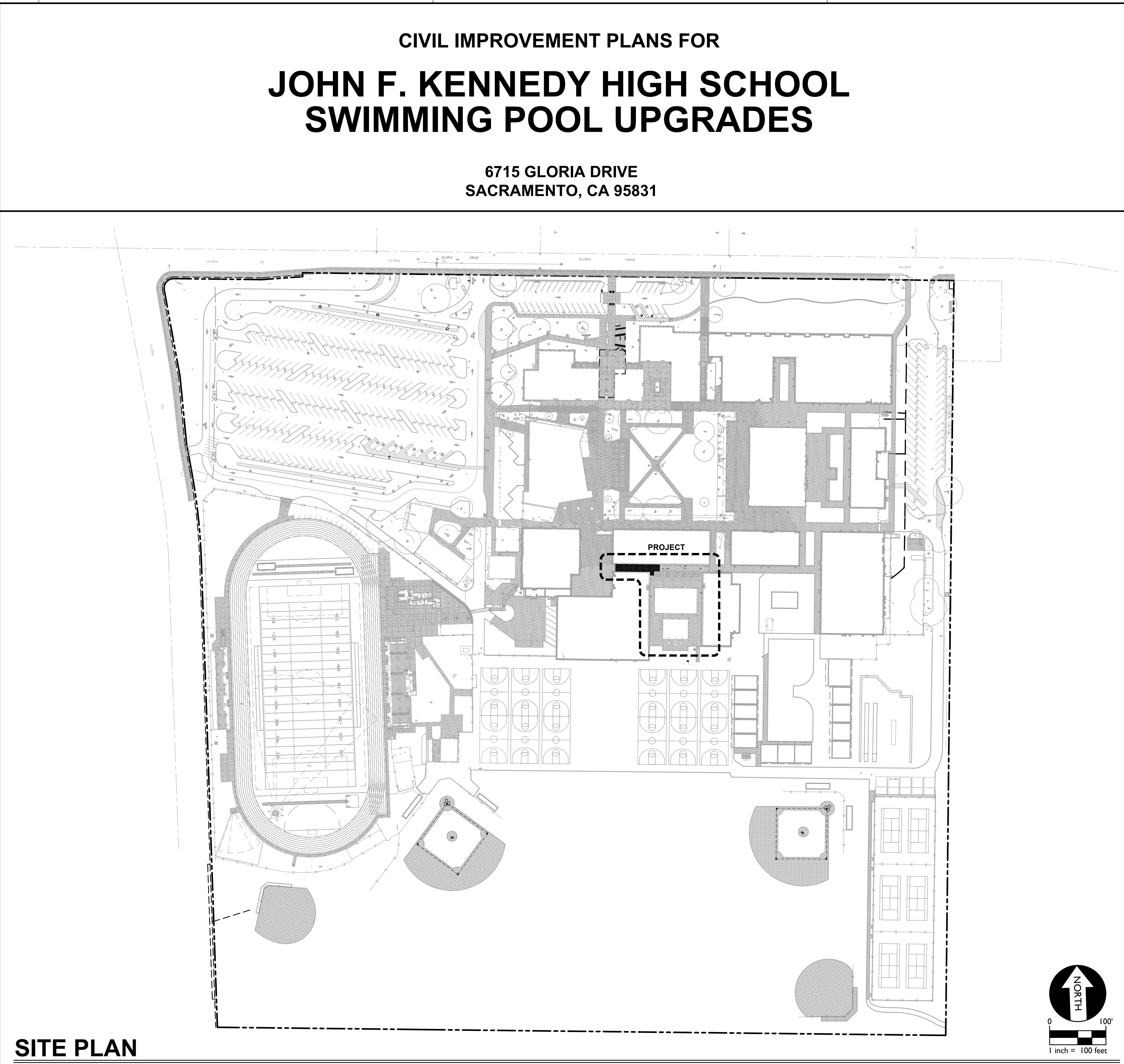
TITLE
**LIFE SAFETY FLOOR
 PLAN - POOL**

SHEET
GL111

ABBREVIATIONS		NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS.	
AB	AGGREGATE BASE	JP	JOINT UTILITY POLE
AC	ASPHALTIC CONCRETE	LF	LINEAL FEET
AD	AREA DRAIN	LIP	LIP OF GUTTER
APN	ASSESSOR'S PARCEL NUMBER	LT	LEFT
ARV	AIR RELEASE VALVE	MS	MOWSTRIP
ASB	AGGREGATE SUB-BASE	NTS	NOT TO SCALE
BO	BLOW-OFF VALVE	OH	OVERHEAD
BV	BUTTERFLY VALVE	PCC	PORTLAND CEMENT CONCRETE
BW	BACK OF WALK	PD	PLANTER DRAIN
C/L	CENTERLINE	PIV	POST INDICATOR VALVE
CB	CATCH BASIN	PL	PROPERTY LINE
CL	CLASS	PP	POWER POLE
CMP	CORRUGATED METAL PIPE	PUE	PUBLIC UTILITY EASEMENT
CO	CABLE TELEVISION	PVC	POLYVINYL CHLORIDE
CO	CLEANOUT	RCP	REINFORCED CONCRETE PIPE
COMM	COMMUNICATION	RIM	RADIUS
CONC.	CONCRETE	RMP	REDUCED PRESSURE
CONST.	CONSTRUCT	RP	REDUCED PRESSURE
CR	CURB RETURN	RW	RIGHT OF WAY
CS	CONCRETE SURFACE	SCH	SCHEDULE
DC	DOUBLE CHECK VALVE	SD	STORM DRAIN
DDC	DOUBLE DETECTOR CHECK VALVE	SDMH	STORM DRAIN MANHOLE
DG	DECOMPOSED GRANITE	SE	SUBGRADE ELEVATION
DI	DROP INLET	SI	SIDE INLET
DIA	DIAMETER	SS	SANITARY SEWER
DIP	DUCTILE IRON PIPE	SSMH	SANITARY SEWER MANHOLE
DWG	DRAWING	STD	STANDARD
DWS	DOWNSCOUR	S/W	SIDEWALK
ESMT	EDGE OF PAVEMENT	TC	TOP OF CURB
EXIST	EXISTING	TD	TRENCH DRAIN
FS	FIRE SERVICE LINE	TDCB	TRENCH DRAIN CATCH BASIN
FS	FIRE DEPARTMENT CONNECTION	TR	TOP OF RETAINING WALL
FL	FLOWLINE	TRW	TOP OF WALK
FM	SANITARY SEWER FORCE MAIN	TSW	TOP OF SEAT WALK
FPE	FINISHED FLOOR ELEVATION	TW	TOP OF WALK ELEVATION
FH	FIRE HYDRANT	U	UTILITY
G	GAS	UG	UNDERGROUND
GR	GRATE ELEVATION	UN	UNLESS OTHERWISE NOTED
GRD	GRADE ELEVATION	UCN	VITRIFIED CLAY PIPE
GB	GATE VALVE	W	WATER
HB	HOSE BIBB	W/O	WITHOUT
HBD	HEADER BOARD	WV	WATER VALVE
HDPE	HIGH DENSITY POLYETHYLENE PIPE		
HP	HIGH POINT		
INV	PIPE INVERT ELEVATION		

SYMBOLS LEGEND		NOTE: NOT ALL SYMBOLS MAY BE USED ON THESE PLANS.	
PROPOSED GRADING & DRAINAGE SYMBOLS:			
	STORM DRAIN LINE (SIZE AND FLOW SHOWN)		WATER LINE & SIZE
	STORM DRAIN MANHOLE (SDMH)		FIRE LINE & SIZE
	CATCH BASIN (CB)		DOMESTIC WATER LINE & SIZE
	DROP INLET (DI)		RECLAIMED WATER LINE & SIZE
	AREA DRAIN (AD)		IRRIGATION SERVICE LINE & SIZE
	PLANTER DRAIN (PD) OR FLOOR DRAIN (FD)		NON POTABLE WATER LINE & SIZE
	STORM DRAIN CLEANOUT		FIRE SPRINKLER SVC. LINE & SIZE
	ELEVATION		GATE VALVE
	FINISHED FLOOR ELEVATION		WATER METER
	BUILDING PAD ELEVATION		FIRE HYDRANT ASSEMBLY
	CONCRETE SIDEWALK		FIRE DEPARTMENT CONNECTION
	GRADED DIRECTION FOR DRAINAGE FLOW		DETECTOR CHECK VALVE
	SWALE		DOUBLE DETECTOR CHECK VALVE
	SLOPE		REDUCED PRESSURE BACKFLOW PREVENTER
	TREE TO BE REMOVED		BUTTERFLY VALVE
	TREE TO REMAIN		AIR RELEASE VALVE + SIZE
	RETAINING WALL		BLOW-OFF VALVE + SIZE
	OVERLAND RELEASE PATH		POST INDICATOR VALVE
PROPOSED SANITARY SEWER SYMBOLS:			
	SANITARY SEWER LINE (SIZE AND FLOW SHOWN)		
	SANITARY SEWER MANHOLE (SSMH)		
	SEWER CLEANOUT FLUSHER BRANCH		

APPLICABLE CODES & STANDARDS	
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*	
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR (2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)	
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)	
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR (2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)	
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR	
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR (2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)	
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS	



GENERAL NOTES	
1. THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF UNDERGROUND SERVICE ALERT (USA) TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING TOLL FREE 1-800-227-2600, OR 811.	
2. WARREN CONSULTING ENGINEERS, INC. (WCE) ASSUMES NO RESPONSIBILITY FOR ERRORS IN PHYSICAL LOCATION OF IMPROVEMENTS, HORIZONTAL OR VERTICAL, IF STATED BY OTHERS. IN ADDITION, ANY SUCH ERRORS IN PHYSICAL LOCATION MAY AFFECT THE INTENDED DESIGN OF SUCH IMPROVEMENTS AND WCE CANNOT BE HELD RESPONSIBLE FOR SUCH CONDITIONS WHICH ARE A RESULT OF ERRORS IN SURVEYING, OR IMPROPER CONSTRUCTION.	
3. IF SUBSURFACE CULTURAL RESOURCES, REMAINS, AND/OR ARTIFACTS ARE UNCOVERED DURING PROJECT CONSTRUCTION, ALL WORK IN THE VICINITY SHALL BE STOPPED UNTIL SUCH ITEMS CAN BE ASSESSED BY AN APPROPRIATE MEMBER OF THE COUNTY ENVIRONMENTAL IMPACT STAFF.	
4. CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.	
5. THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY FOR ALL EXCAVATIONS OF 5 FEET OR MORE IN DEPTH.	
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY PRE-BID AND PRE-CONSTRUCTION SITE INSPECTION, AND/OR OBSERVATIONS ON THE SITE TO PRE-DETERMINE ALL HIS/HER MEANS AND METHODS NECESSARY TO COMPLETE THE IMPROVEMENTS SHOWN ON THESE PLANS AND PER THE PROJECT SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE, AND INCLUDE IN HIS/HER CONTRACT, ALL MEANS AND METHODS NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.	
7. WHERE IMPROVEMENTS LIE WITHIN AN EXISTING DEVELOPED AREA, CONTRACTOR SHALL USE CAUTION WHEN ACCESSING THE SITE THROUGH THESE EXISTING IMPROVEMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT ANY SUCH EXISTING IMPROVEMENTS OUTSIDE THE PROJECT BOUNDARY, OR EXISTING IMPROVEMENTS WITHIN THE BOUNDARY WHICH ARE TO REMAIN. PROPER PRECAUTIONS SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.	
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP DETAILED RECORDS OF MINOR CHANGES OR ADJUSTMENTS MADE DURING CONSTRUCTION (WHICH WERE NOT FORMALLY ISSUED). UPON PROJECT COMPLETION, THESE RECORDS AND/OR INFORMATION SHALL BE PROVIDED TO THE OWNER AND WARREN CONSULTING ENGINEERS, INC. UNLESS AN OFFICIAL "AS-BUILT" SET OF PLANS IS A REQUIREMENT OF THE CONTRACT. IF AS-BUILT PLANS ARE A REQUIREMENT OF THE CONTRACT, REFER TO SPECIFICATIONS FOR AS-BUILT DELIVERABLE REQUIREMENTS.	
9. IN VEHICULAR PATHWAYS, EXISTING ASPHALTIC AND/OR CONCRETE SURFACES SHALL BE CUT TO A NEAT AND STRAIGHT LINE, PARALLEL OR PERPENDICULAR TO THE VEHICULAR TRAVELED PATH. THIS IS TYPICALLY THE ROADWAY CENTERLINE, BUT MAY VARY. THAT SAWCUT EDGE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION SO A CLEAN EDGE REMAINS FOR PATCH BACK. IF EDGE IS DAMAGED, A NEW SAW CUT WILL BE REQUIRED. THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.	
10. NO BURNING OR BLASTING SHALL BE ALLOWED ON SITE UNLESS SPECIFICALLY ADDRESSED ON PLANS, OR SPECIFICALLY APPROVED AND COORDINATED WITH THE ARCHITECT, ENGINEER, AND LOCAL AGENCY OR OTHER ADMINISTRATIVE AUTHORITY.	
11. SUBGRADE AND RESULTING FINISHED GRADE SHALL BE CONSTRUCTED SMOOTH AND UNIFORM BETWEEN SPOT ELEVATIONS, CONTOURS OR OTHER STRUCTURE ELEVATIONS SHOWN ON GRADING OR OTHER PLANS. NO MOUNDS, RUTS, DEPRESSIONS OR OTHER GRADING DEFICIENCIES WILL BE ALLOWED UNLESS SPECIFICALLY SHOWN ON PLANS.	
12. ON NEW WATER SYSTEMS, SERVICE LATERALS SHALL BE MADE USING APPROPRIATE "TEE" AND "WYE" FITTINGS. SADDLE TAPS WILL ONLY BE ALLOWED WHEN MAKING CONNECTIONS TO EXISTING WATER MAINS.	
13. CURING COMPOUND SHALL BE APPLIED IN A CONTINUOUS SOLID WET FLOWING COAT. ANY "SPOTTY" APPLICATIONS SHALL BE RECOATED IMMEDIATELY. APPLICATION SHALL BE INSPECTED BY PROJECT INSPECTOR DURING APPLICATION.	
14. EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE ADDITIONAL SCORE OR EXPANSION JOINTS TO PREVENT UNCONTROLLED CRACKING. THOSE ADDITIONAL JOINTS MAY OR MAY NOT BE SPECIFICALLY SHOWN ON PLANS BUT SHALL BE PROVIDED BY THE CONTRACTOR.	
15. EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE A MINOR ADJUSTMENT OF REBAR WITHIN CONCRETE TO ALLOW FOR SUCH STRUCTURE. THAT REBAR ADJUSTMENT MAY NOT BE SPECIFICALLY SHOWN ON PLANS.	
16. NO MORE THAN 1 GALLON OF WATER PER YARD OF CONCRETE CAN BE ADDED TO THE TRUCK AFTER ARRIVAL TO PROJECT SITE. THE ADDITION OF WATER CAN ONLY BE ADDED UNDER THE SUPERVISION OF THE CONCRETE INSPECTOR OR LABORATORY TECHNICIAN.	
17. WHEN PUMPING CONCRETE FOR PLACEMENT, ABSOLUTELY NO WATER IS TO BE ADDED TO PUMP HOPPER. ANY WATER ADDED TO HOPPER WILL BE REASON FOR CONCRETE REJECTION AT THE CONTRACTORS EXPENSE.	
18. ALL CONTRACTION/CONSTRUCTION JOINTS "C.J." SHALL BE 1/4 THE SLAB THICKNESS DEEP, BUT NO LESS THAN 1" FOR CONTROLLING OF CRACKING. CONTRACTOR SHALL EXERCISE CAUTION WHEN FINISHING CONCRETE SO AS NOT TO FILL IN THESE JOINTS WITH CONCRETE CREAM. ANY CRACKS OUTSIDE OF JOINTS WHICH WERE CONSTRUCTED LESS THAN 1" DEEP, SHALL BE CAUSE FOR CONCRETE SLAB(S) TO BE REMOVED AND REPLACE AT CONTRACTORS EXPENSE.	
19. ANY SCREED BOARDS SET WITHIN CONCRETE SLABS SHALL BE AN "OVERHEAD SCREED" SO THERE IS NO INTERFERENCE WITH THE PLACEMENT AND ALIGNMENT OF SLAB REINFORCING.	
20. 3-1/2" FELT JOINTS WILL NOT BE ACCEPTED. PROVIDE A FULL 4" FELT JOINT FOR 4" SLAB CONSTRUCTION, AND A 6" FELT JOINT FOR A 6" SLAB CONSTRUCTION.	
21. SHOULD ANY SHRINKAGE CRACKS OCCUR OUTSIDE OF EITHER THE EXPANSION JOINTS OR CRACK CONTROL JOINTS, THEN THE CONCRETE SLAB SHALL BE SAWCUT AT THE NEAREST JOINTS ON EACH SIDE OF THE CRACK AND THE CONCRETE SECTION SHALL BE REMOVED AND REPLACED. NEW CONCRETE SHALL BE DOWELED INTO EXISTING CONCRETE PER DRAWING DETAIL.	
22. ALL AREAS DISTURBED BY GRADING OPERATIONS WHETHER SHOWN ON THE DRAWINGS OR NOT SHALL BE HYDRO SEEDED UNLESS OTHERWISE NOTED. HYDRO SEEDING SHALL CONFORM TO LOCAL CITY/COUNTY STANDARDS.	
23. REPAIR OR PATCHING OF GALVANIZED METALS, SUCH AS AFTER WELDING GALVANIZED COMPONENTS, SHALL BE MADE USING A ZINC COMPOSITION "HOT STICK" APPLICATION PER ASTM A 790-01. GALVANIZING PAINTS WILL NOT BE ALLOWED.	

SITE PLAN

GENERAL NOTES



WATER FLUSHING NOTES:

POTABLE WATER FOR HIGH VELOCITY FLUSH 3FT/SEC MAY BE FLUSHED INTO THE STORM DRAIN PROVIDING THE FOLLOWING MEASURES ARE ADHERED TO:

THE DEVELOPER / CONTRACTOR OSP MUST BE ON SITE MONITORING THE DISCHARGE FOR:

- RESIDUAL CHLORINE IS FIELD MEASURED AT <0.019 MG/L;
- TURBIDITY MUST NOT EXCEED 100 NTU; OR, MUST BE LESS THAN THAT WHICH IS MEASURED IN THE RECEIVING WATER + 20%; AND,
- PH IS NO LESS THAN 6.5 NOR GREATER THAN 8.5

NOTE: IF THE VOLUME OF THE DISCHARGE IS GREATER THAN 325,850 GALLONS THE CONTRACTOR MUST PROVIDE WRITTEN DOCUMENTATION OF THE AFOREMENTIONED MEASUREMENTS. CHLORINATED WATER ASSOCIATED WITH DISINFECTION HAS ANY OF THREE (3) OPTIONS:

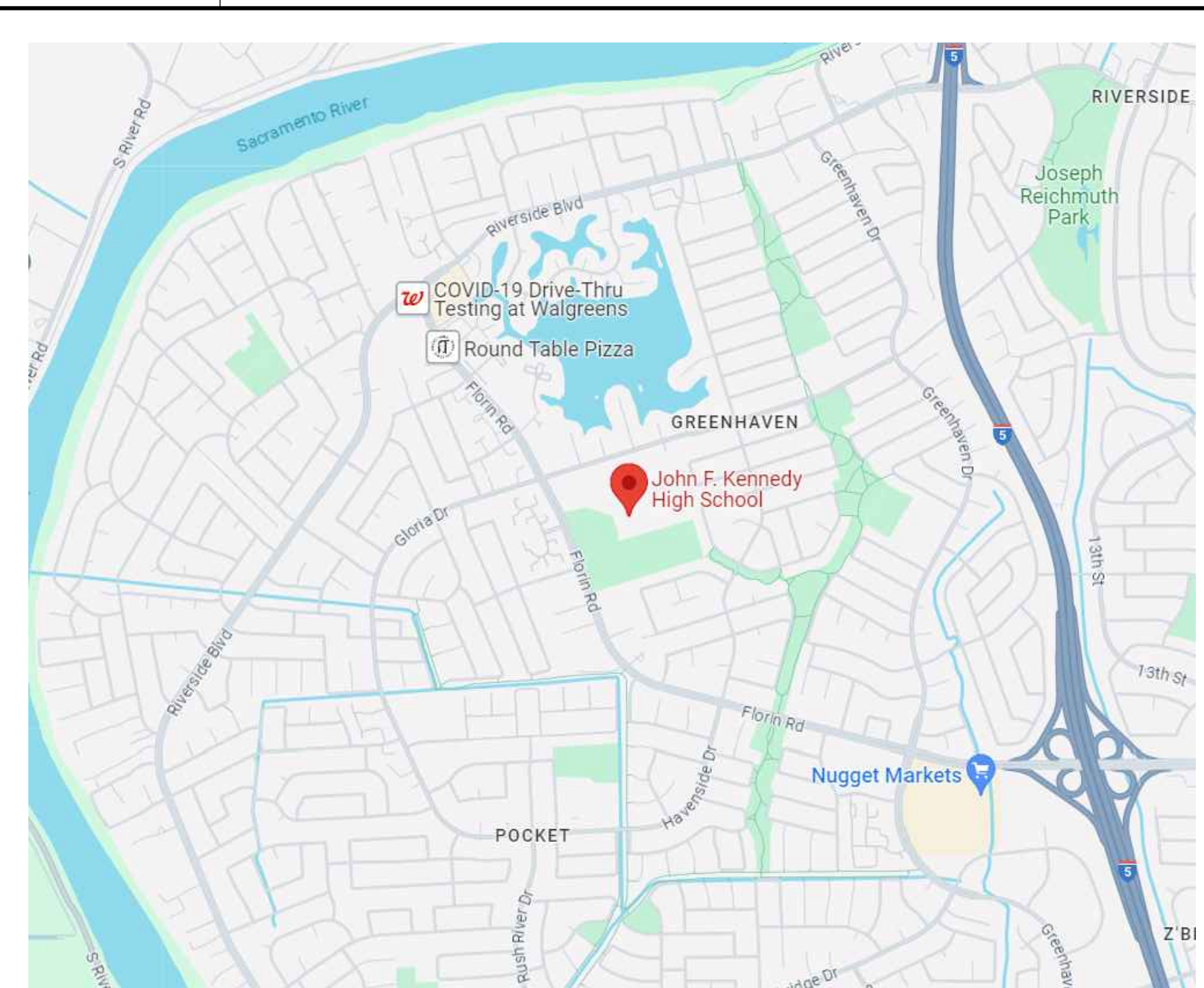
- DISCHARGE TO SANITARY SEWER - CONTRACTOR MUST OBTAIN A SEWER DISCHARGE PERMIT FROM SASD - CONTACT EITHER SABINA RYNAS (916) 876-6522 OR LINDA STEVENS (916) 876-5287.
- DE-CHLORINATE AND DISCHARGE TO LAND - RESIDUAL CHLORINE MUST BE FIELD MEASURED AT <0.019 MG/L.
- DE-CHLORINATE AND PETITION THE REGIONAL WATER BOARD FOR EITHER A LOW THREAT PERMIT OR A WAIVER THERETO

GENERAL PAVING SURFACE NOTES:

- PROVIDE EQUIVALENT OF MEDIUM BROOM FINISH AT SLOPES UP TO 5.99%. TYPICAL PROVIDE EQUIVALENT OF HEAVY BROOM FINISH AT SLOPES 6% AND GREATER. REFER TO SPECIFICATIONS.
- ALL NEW PEDESTRIAN WALKWAYS (NON-RAMP) SHALL BE SLOPED NO GREATER THAN 2.0%, AND NO LESS THAN 0.75% IN ANY DIRECTION, UNLESS SPECIFICALLY LABELED OTHERWISE. ALL CONCRETE SHALL MEET THE FOLLOWING SLOPE REQUIREMENTS:
 - NO GREATER THAN 5% SLOPE IN THE DIRECTION OF TRAVEL.
 - NO GREATER THAN 2% SLOPE CROSSING THE DIRECTION OF TRAVEL.
 - NO GREATER THAN 2% SLOPE IN ANY DIRECTION IN COURTYARD OR PLAZA AREAS.
- ALL PAVING WITHIN 5 FEET OF BUILDINGS SHALL SLOPE AWAY FROM FOUNDATIONS AT LEAST 1%.
- THE CONTRACTOR SHALL ENSURE THAT A 5'-0" MIN. (SQ.) LEVEL LANDING (1.9% MAX., ANY DIRECTION) IS PROVIDED AT EVERY EXTERIOR DOOR AS IDENTIFIED ON THE PLANS. THIS SHALL BE DONE PRIOR TO CONCRETE POURING TO ENSURE NO VARIATION FROM THE PLANS OR ERROR IN GRADE HAS OCCURRED.
- PAVEMENT ADJOINING BUILDINGS NOT INTENDED FOR PEDESTRIAN TRAVEL SHALL BE SLOPED NO LESS THAN 2% IN ACCORDANCE WITH THE CBC SECTION 1804.4.4.
- PAVEMENT ADJOINING BUILDINGS INTENDED FOR PEDESTRIAN TRAVEL, SUCH AS RAMPS, DOOR OR RAMP LANDINGS, ETC. SHALL BE SLOPED NO LESS THAN 1% IN ACCORDANCE WITH THE CBC SECTION 1804.4.4 FOR A MINIMUM DISTANCE OF 10 FEET, AND NOT MORE THAN 1:48 (2.08%) IN ACCORDANCE WITH CBC SECTION 11B-403.3.

GENERAL PAVING SURFACE NOTES:

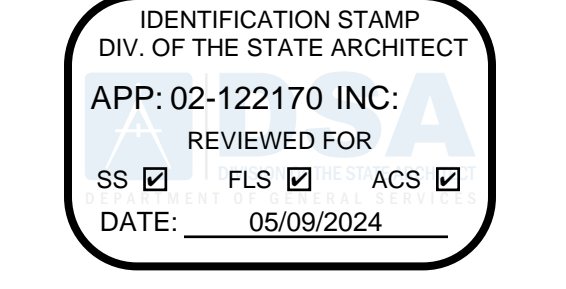
- PROVIDE EQUIVALENT OF MEDIUM BROOM FINISH AT SLOPES UP TO 5.99%. TYPICAL PROVIDE EQUIVALENT OF HEAVY BROOM FINISH AT SLOPES 6% AND GREATER. REFER TO SPECIFICATIONS.
- ALL NEW PEDESTRIAN WALKWAYS (NON-RAMP) SHALL BE SLOPED NO GREATER THAN 2.0%, AND NO LESS THAN 0.75% IN ANY DIRECTION, UNLESS SPECIFICALLY LABELED OTHERWISE. ALL CONCRETE SHALL MEET THE FOLLOWING SLOPE REQUIREMENTS:
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 - NO GREATER THAN 2% SLOPE IN ANY DIRECTION IN COURTYARD OR PLAZA AREAS.
- ALL PAVING WITHIN 5 FEET OF BUILDINGS SHALL SLOPE AWAY FROM FOUNDATIONS AT LEAST 1%.



VICINITY MAP
NO SCALE

SHEET INDEX

NO.	SHEET TITLE	NO.	SHEET TITLE
GENERAL CIVIL INFO			
C101	CIVIL TITLE SHEET		
VF101	TOPOGRAPHIC SURVEY		
VF102	TOPOGRAPHIC SURVEY		
CD101	DEMOLITION PLAN		
CS101	HORIZONTAL CONTROL PLAN		
CG101	GRADING PLAN		



LIONAKIS

2025 Nineteenth Street
Sacramento, CA 95818
P 916.558.1900
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CONSULTANT



WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

SEAL



PROJECT
JOHN F. KENNEDY HIGH SCHOOL
SWIMMING POOL UPGRADE

6715 GLORIA DRIVE
SACRAMENTO, CA 95831

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

ISSUED		
MARK	DATE	DESCRIPTION

MANAGEMENT	
LIONAKIS PROJECT NO.	023283
CLIENT PROJECT NO.	N/A
COPYRIGHT:	LIONAKIS 2023

AGENCY

TITLE

CIVIL COVER SHEET

SHEET

C101

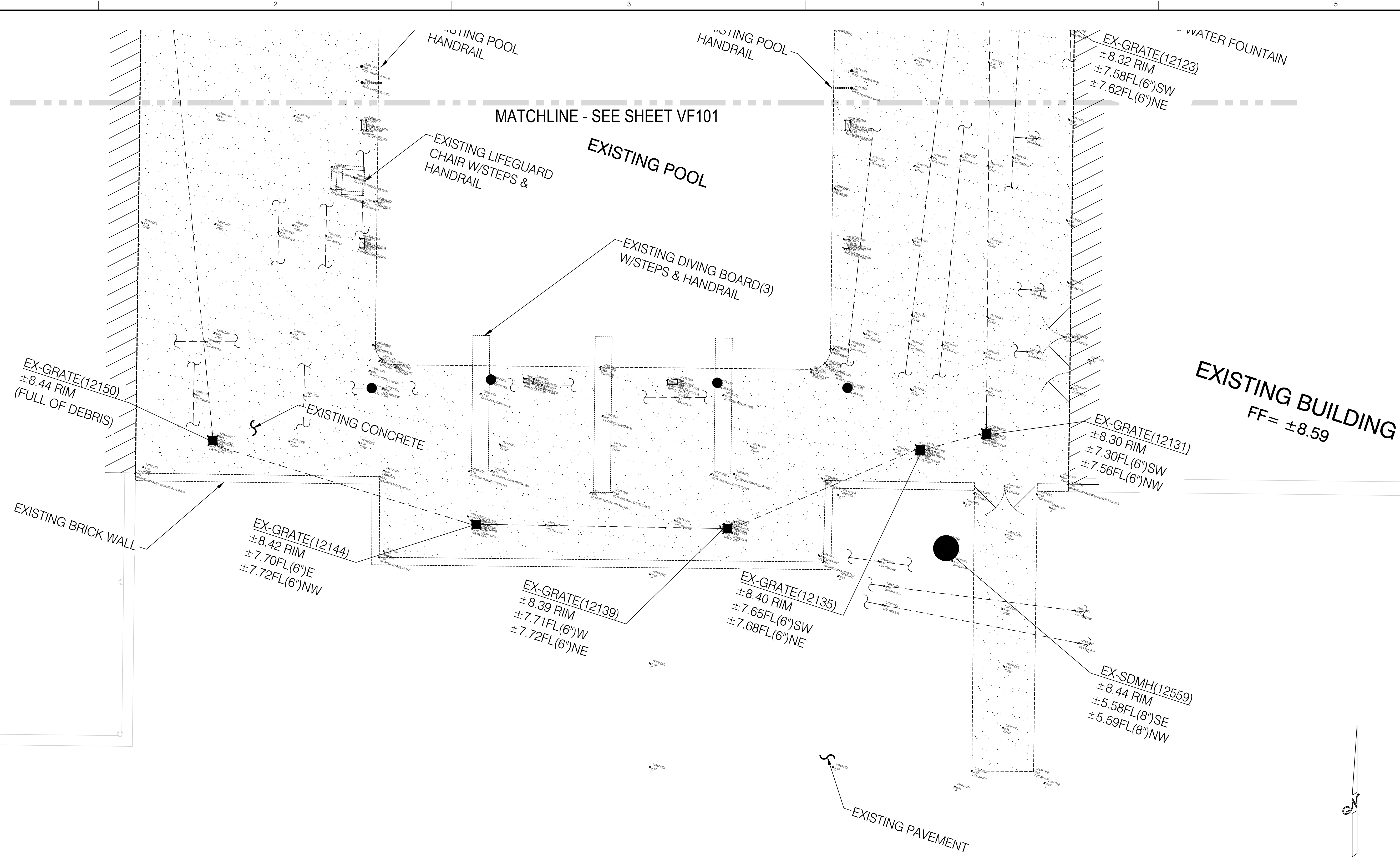
IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

C

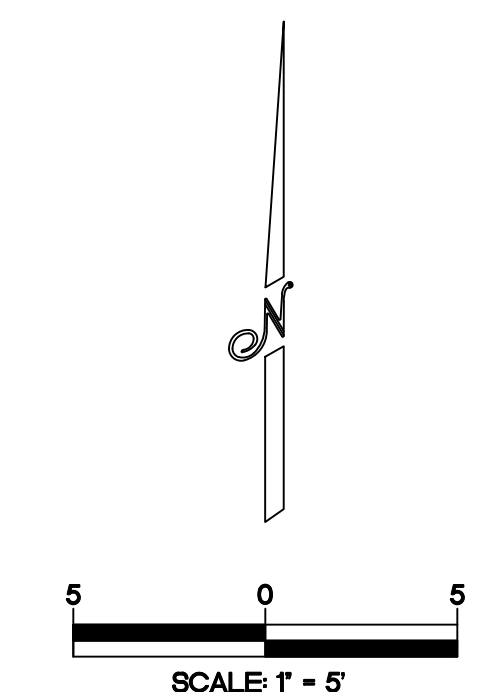
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1:24-031\CIVIL\DWG\24-031-101-VF101.DWG

4/29/2024 5:48:12 PM



EXISTING BUILDING
FF = ±8.59



BENCHMARK

ELEVATION: 4.242
 BM BENCHMARK NO. SAC. CITY 316-H78. FOUND HILTI NAIL AT LIGHT BASE ON THE SOUTH SIDE OF GLORIA DRIVE OPPOSITE KEEL COURT.

NOTE:
 UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE LOCATIONS USING ON SITE USA MARKINGS.

LEGEND

- EXISTING ELECTRIC METER ELM
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING UNDERGROUND UTILITY LINE (UNKNOWN UTILITY)
- EXISTING SEWER CLEANOUT
- EXISTING STORM DRAIN MANHOLE
- EXISTING AREA DRAIN
- EXISTING STORM DRAIN GRATE
- EXISTING STORM DRAIN LINE
- EXISTING POOL VALVE
- EXISTING VALVE
- EXISTING CHAIN LINK FENCE
- EXISTING GATE
- EXISTING PAINTED POOL DEPTH
- EXISTING DOOR AT BUILDING
- EXISTING CONCRETE
- EXISTING BUILDING
- EXISTING PAVEMENT

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

LIONAKIS

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

CONSULTANT

WCE
 WARREN CONSULTING ENGINEERS, INC.
 1117 WINDFIELD WAY, SUITE 110
 EL DORADO HILLS, CA 95762 | (916) 985-1870

SEAL



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

6715 GLORIA DRIVE
 SACRAMENTO, CA 95831

CLIENT
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION

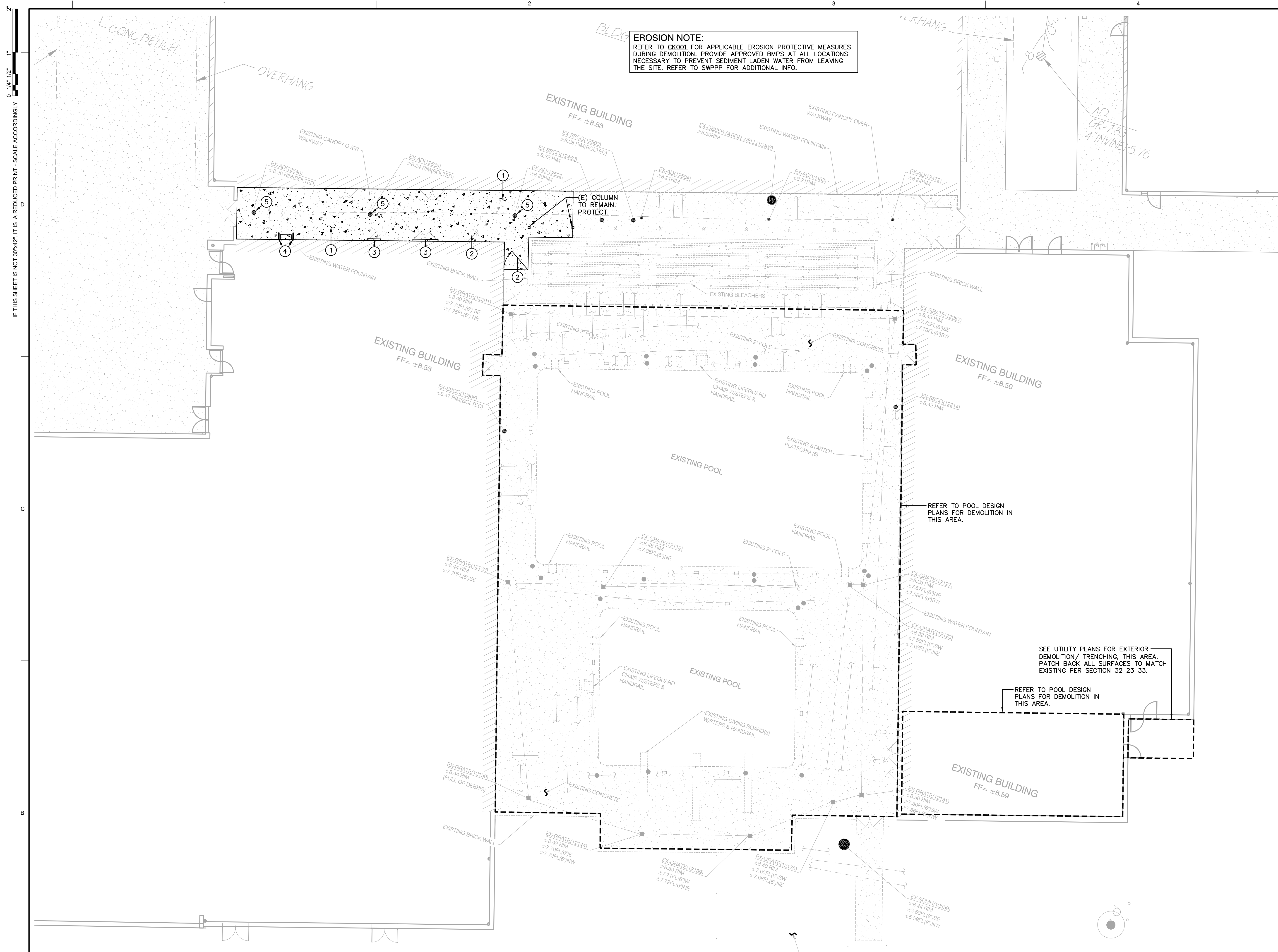
MANAGEMENT
 LIONAKIS PROJECT NO. 023283
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AGENCY

TITLE
**TOPOGRAPHIC
 SURVEY**

SHEET

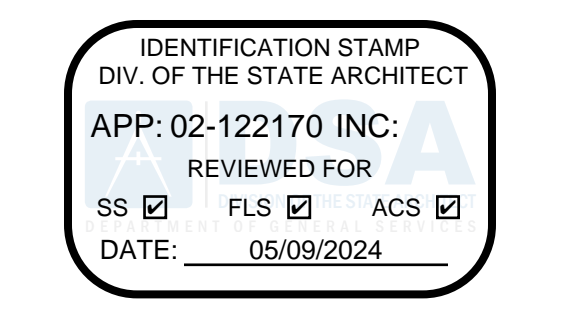
VF102



EROSION NOTE:
REFER TO EROSION PROTECTIVE MEASURES DURING DEMOLITION. PROVIDE APPROVED BMPs AT ALL LOCATIONS NECESSARY TO PREVENT SEDIMENT LADEN WATER FROM LEAVING THE SITE. REFER TO SWPPP FOR ADDITIONAL INFO.

- DEMOLITION GENERAL NOTES**
- IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
 - NO BURNING OR BLASTING SHALL BE PERMITTED.
 - ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
 - ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
 - ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
 - THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN IN THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.
 - THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICT NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTORS WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTENT.
 - EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REINSTALLED AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
 - ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
 - CONTRACTOR SHALL COMPLY WITH CHAPTER 33 OF THE 2022 CFC, "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" AT ALL TIMES DURING CONSTRUCTION.
 - CONTRACTOR SHALL HIRE A UTILITY LOCATING COMPANY AND SHALL SCAN THE ENTIRE AREA WITHIN THE LIMITS OF NEW WORK. ALL UTILITIES LOCATED SHALL BE MARKED AND PROTECTED DURING THE LIMITING OPERATIONS AS WELL AS ANY EXCAVATING TASKS. ANY LOCATED UTILITY DAMAGED WITHIN THE LIMITS OF WORK WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.
 - ALL DEMOLITION SHALL BE APPROPRIATELY SUPPORTED AND REINFORCED DURING REMOVAL TO PREVENT INJURY FROM FALLING, PROJECTILE, OR OTHERWISE MOVING DEBRIS OR OTHER DELETERIOUS MATERIAL. ON-SITE SAFETY WITHIN THE LIMITS OF WORK IS THE CONTRACTORS SOLE RESPONSIBILITY.

- DEMOLITION NOTES**
- AND/OR LEGEND
- REMOVE EXISTING CONCRETE PAVING AND BASE AGGREGATES (IF EXIST), WHERE SAWCUTS ARE NECESSARY, THEY SHALL BE A NEAT STRAIGHT LINE. CUT SHALL BE MADE AT NEAREST EXISTING JOINT TO LOCATION SHOWN.
 - REMOVE EXISTING LARGE MAINTENANCE GATE. SEE ARCHITECTURAL PLANS FOR NEW GATE.
 - REMOVE EXISTING METAL THRESHOLD. SEE GRADING PLANS FOR NEW FLATWORK. SEE ARCHITECTURAL PLANS FOR NEW THRESHOLD.
 - REMOVE EXISTING DRINKING FOUNTAIN HANDRAILS. SALVAGE AND RE-INSTALL ON NEW CONCRETE FLATWORK.
 - REMOVE EXISTING FLOOR DRAIN. PROTECT EXISTING PIPING SYSTEMS.



LIONAKIS

2025 Ninth Street
Sacramento, CA 95818
P 916.558.1900
www.lionakis.com

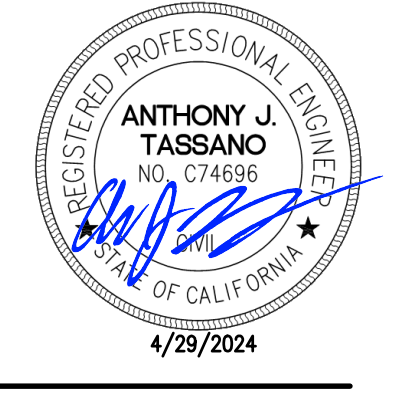


SEAL

PROJECT
JOHN F. KENNEDY HIGH SCHOOL SWIMMING POOL UPGRADE

6715 GLORIA DRIVE
SACRAMENTO, CA 95831

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT



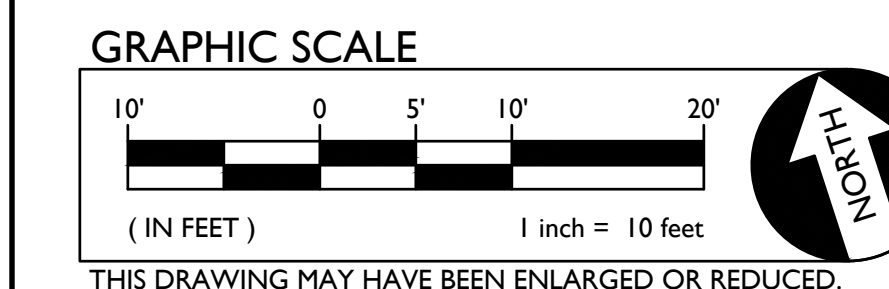
MARK	DATE	DESCRIPTION

MANAGEMENT	
LIONAKIS PROJECT NO.	023283
CLIENT PROJECT NO.	N/A
COPYRIGHT:	LIONAKIS 2023

AGENCY

TITLE
SURFACE DEMOLITION PLAN

SHEET
CD101



1 SURFACE DEMOLITION PLAN

SCALE 1" = 10'-0"

EXISTING UTILITIES AND LOCATING
VARIOUS UTILITIES EXIST BENEATH THE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL ACQUIRE UNDERGROUND LOCATOR TO LOCATE ALL UTILITIES IN ACCORDANCE WITH EARTHWORK SECTION 31 0000. APPROXIMATE LOCATIONS HAVE BEEN SHOWN ON THESE PLANS FROM RECORD SOURCES BUT FIELD CONDITIONS MAY VARY. CELLULAR CONDUITS REQUIRE EXTREME CAUTION WHEN WORKING AROUND. SHALLOW UTILITIES, MAY REQUIRE ADDITIONAL WORK AS OUTLINED IN THESE PLANS AND SPECIFICATIONS TO AVOID DAMAGE TO UTILITIES. CONTACT ARCHITECT IMMEDIATELY IF FOUND UTILITIES CONFLICT WITH NEW WORK.

UTILITY VERIFICATION NOTE
PRIOR TO THE START OF CONSTRUCTION, VERIFY AND POTHOLE ALL UTILITY POINTS OF CONNECTION FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION.

CONCRETE SAWCUT NOTE
SAWCUTS AND SUBSEQUENT PATCH BACK OF CONCRETE WALKS, SHALL BE TO THE EXISTING CONCRETE JOINT BEYOND NEAREST LOCATION OF DEMOLITION AS SHOWN. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE, SHOW AND COORDINATE WITH EXISTING JOINTS, HOWEVER IF FIELD CONDITIONS ARE OTHERWISE, IT IS UNDERSTOOD TO REMOVE AND PATCH BACK TO THE NEAREST JOINTS BEYOND DEMOLITION.

IRRIGATION DEMOLITION
WITHIN LANDSCAPE AREAS TO BE DEMOLISHED THERE MAY BE EXISTING IRRIGATION LINES NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE LATERAL LINE AND HEADS ENCOUNTERED, PROVIDED THAT THE MAIN LINES AND CONTROL WIRES ONLY IF ROUTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION SYSTEM INTENDED TO REMAIN. IF CONFLICT IS FOUND, CONTACT THE ENGINEER FOR DIRECTION.
WHEN IRRIGATION LINES ENTERING NEW WORK ARE CUT TEMPORARILY FOR CONSTRUCTION, EVEN IF THEY ARE TO BE RE-CONNECTED TO AT SOME POINT DURING CONSTRUCTION, SHALL BE CAPPED TO ALLOW UPSTREAM HEADS IN THAT SYSTEM ZONE TO OPERATE. CAPS SHALL BE REMOVED IF A RE-CONNECTION IS PLANNED.

CAL-GREEN - Waste Diversion

5.408.1 Construction waste management. Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3, or meet a local construction and demolition waste management ordinance, whichever is more stringent.

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance that is more stringent, submit a construction waste management plan that:

- Contractor shall identify the construction and demolition waste materials to be diverted from disposal, to comply with 65% criteria listed above, by efficient usage, recycling, reuse on the project or salvage for future use or sale.
- Contractor shall determine if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream). Either method is the responsibility of the contractor.
- Contractor shall identify diversion facilities where construction and demolition waste material collected will be taken. Transport to such facilities is contractor's responsibility.
- Contractor shall record and provide record of the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

5.408.1.2 Waste management company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company. Contractor shall make any and all arrangements with waste management company for pickup of materials.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

- Excavated soil and land-clearing debris.
- Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
- Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65 percent minimum requirement as approved by the enforcing agency.

CAL-GREEN - Waste Diversion Documentation Required (Ref Calgreen 5.408.1.4)
Contractor shall prepare and provide documentation to the enforcing agency which demonstrates compliance with Calgreen Sections 5.408.1.1 through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:

- Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at <http://www.tbc.ca.gov/Home/CALGreen.aspx> may be used to assist in documenting compliance with the waste management plan.
- Mixed construction and demolition debris (C&D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

CAL-GREEN - Excavated Soil & Land Clearing

5.408.3 Excavated soil and land clearing debris. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on- or off-site, of vegetation or soil contaminated by disease or pest infestation.

Notes:

- If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material. (www.cdffa.ca.gov/excec/county_contacts.html)
- For a map of known pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdffa.ca.gov)

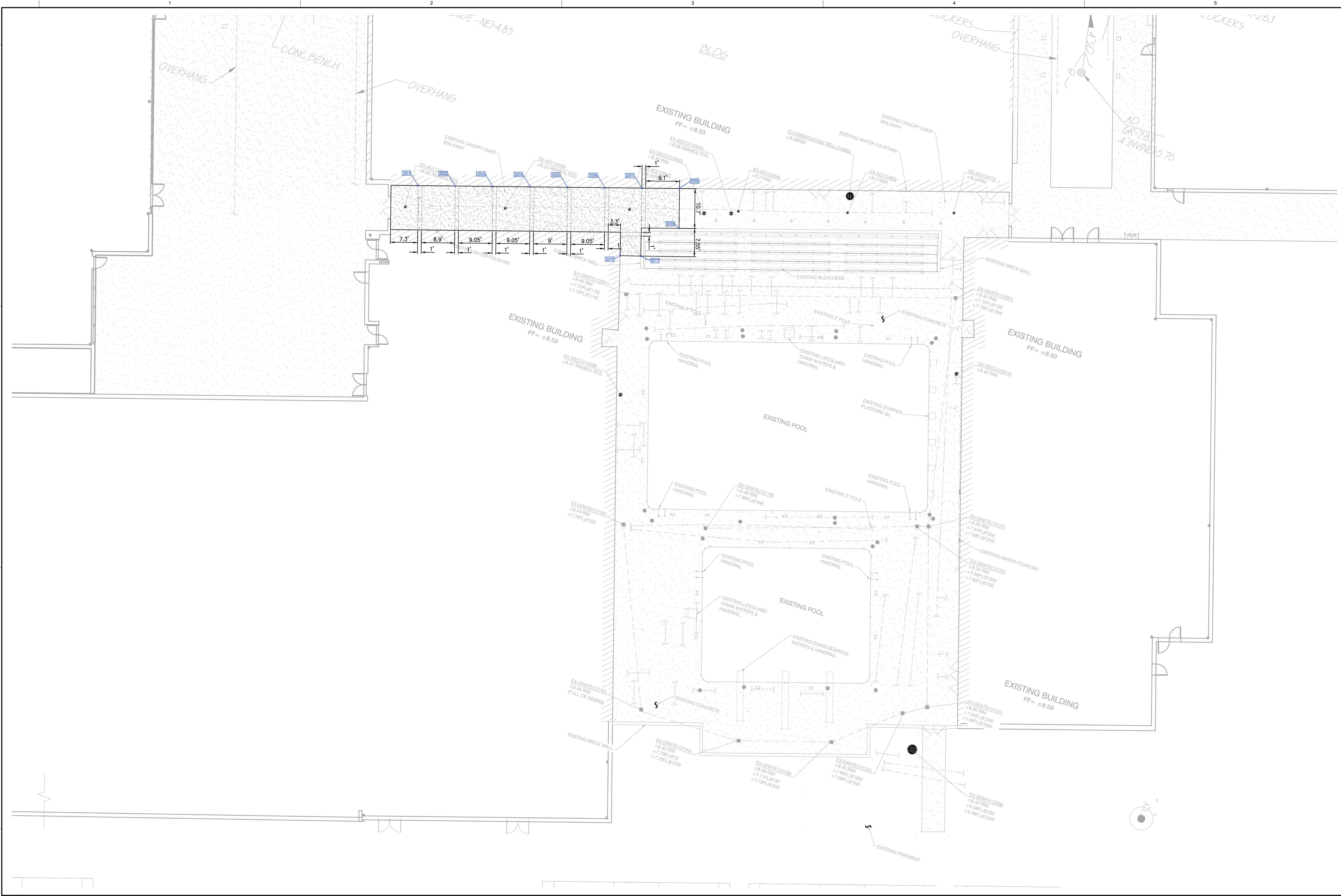
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IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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1 HORIZONTAL CONTROL PLAN

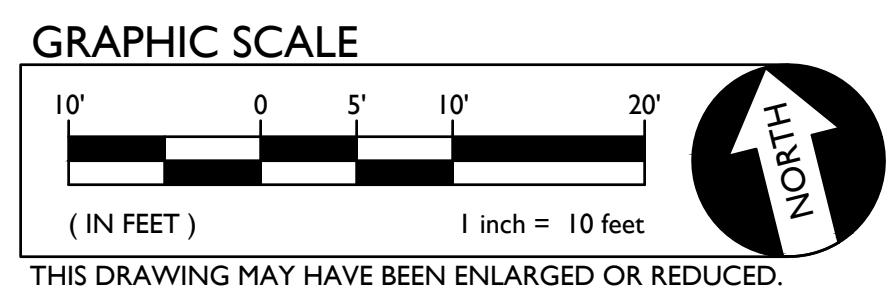
SCALE 1" = 10'-0"

Project Control Point List				
Point #	Raw Description	Elevation	Northing	Easting

Construction Point List			
Point #	Raw Description	Northing	Easting
3001	JOINT	9858.2691	10353.7381
3002	JOINT	9861.2272	10363.2020
3003	JOINT	9864.2261	10372.7980
3004	JOINT	9867.2256	10382.3924
3005	JOINT	9870.2030	10391.9181
3006	JOINT	9873.1983	10401.5007
3007	JOINT	9876.1415	10410.9169
3008	JOINT	9879.1521	10420.5488
3009	JOINT	9868.9584	10423.7327
3010	JOINT	9857.1245	10410.9477
3011	JOINT	9858.7174	10416.2568



COORDINATE NOTE: AS DRAWINGS MAY BE SUBJECT TO CHANGE FOR A VARIETY OF REASONS, CONTRACTOR SHOULD REVIEW COORDINATES PROVIDED ON THIS PLAN WITH APPROVED STRUCTURAL DRAWINGS, PRIOR TO STAKING.



LEGEND

	COORDINATE LOCATION
	COORDINATE NUMBER
	COORDINATE LIST SEE LEFT
	IBM LIST SEE LEFT
RELEASE OF CAD FILES CAD FILES WILL BE AVAILABLE UPON REQUEST AND WITH SIGNED ELECTRONIC FILE RELEASE AGREEMENT TO BE PROVIDED. WARREN CONSULTING ENGINEERS INC. WILL PROVIDE SUCH CAD FILES WITHIN 2 WORKING DAYS OF RECEIPT OF SIGNED CAD RELEASE AGREEMENT. FILED WILL BE AUTOCAD, VERSION 2018.	

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

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

CONSULTANT
WCE
WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

SEAL

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

6715 GLORIA DRIVE
SACRAMENTO, CA 95831

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

ISSUED		
MARK	DATE	DESCRIPTION

MANAGEMENT	
LIONAKIS PROJECT NO:	023283
CLIENT PROJECT NO:	N/A
COPYRIGHT:	LIONAKIS 2023

AGENCY

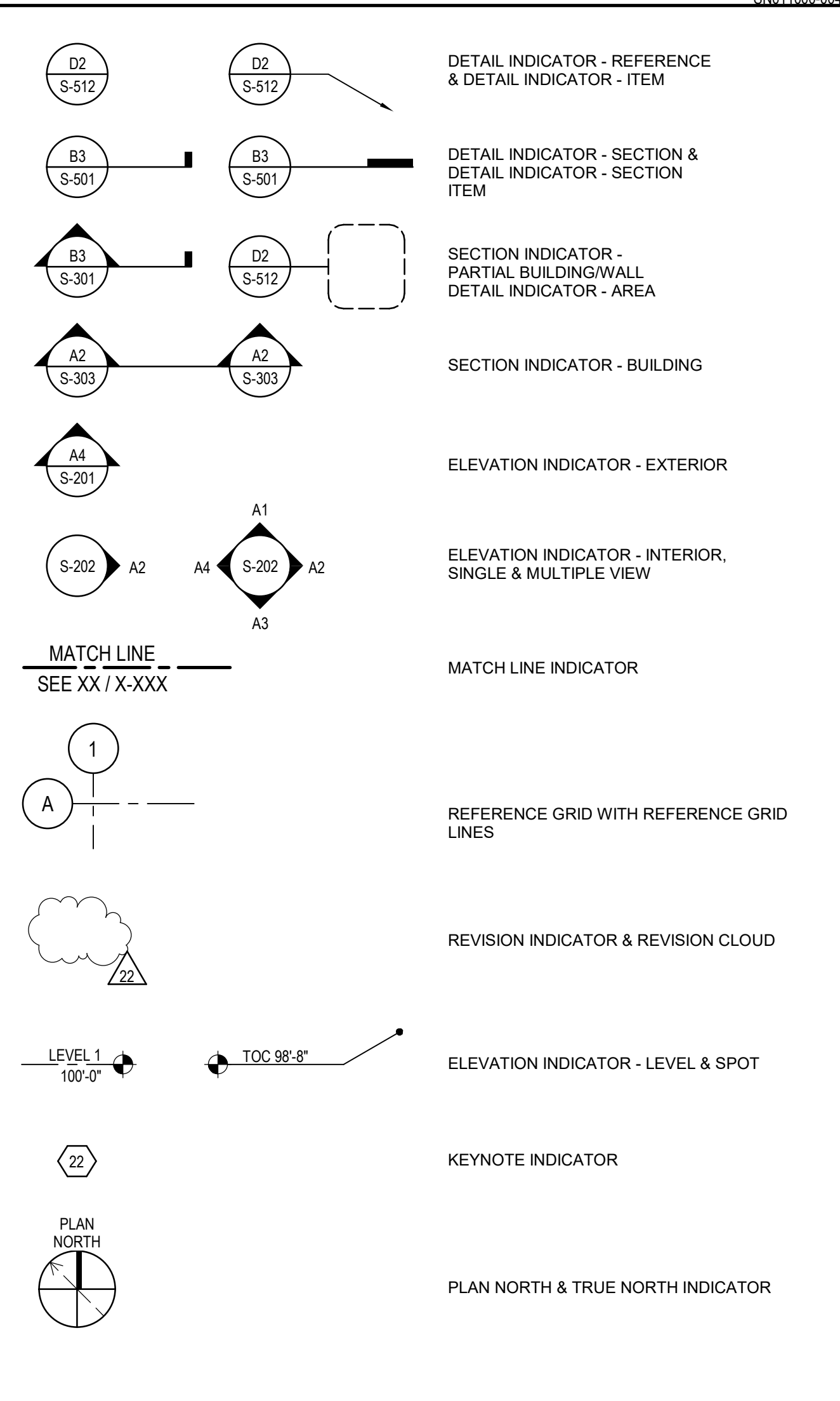
TITLE
**HORIZONTAL CONTROL
PLAN**

SHEET
CS101

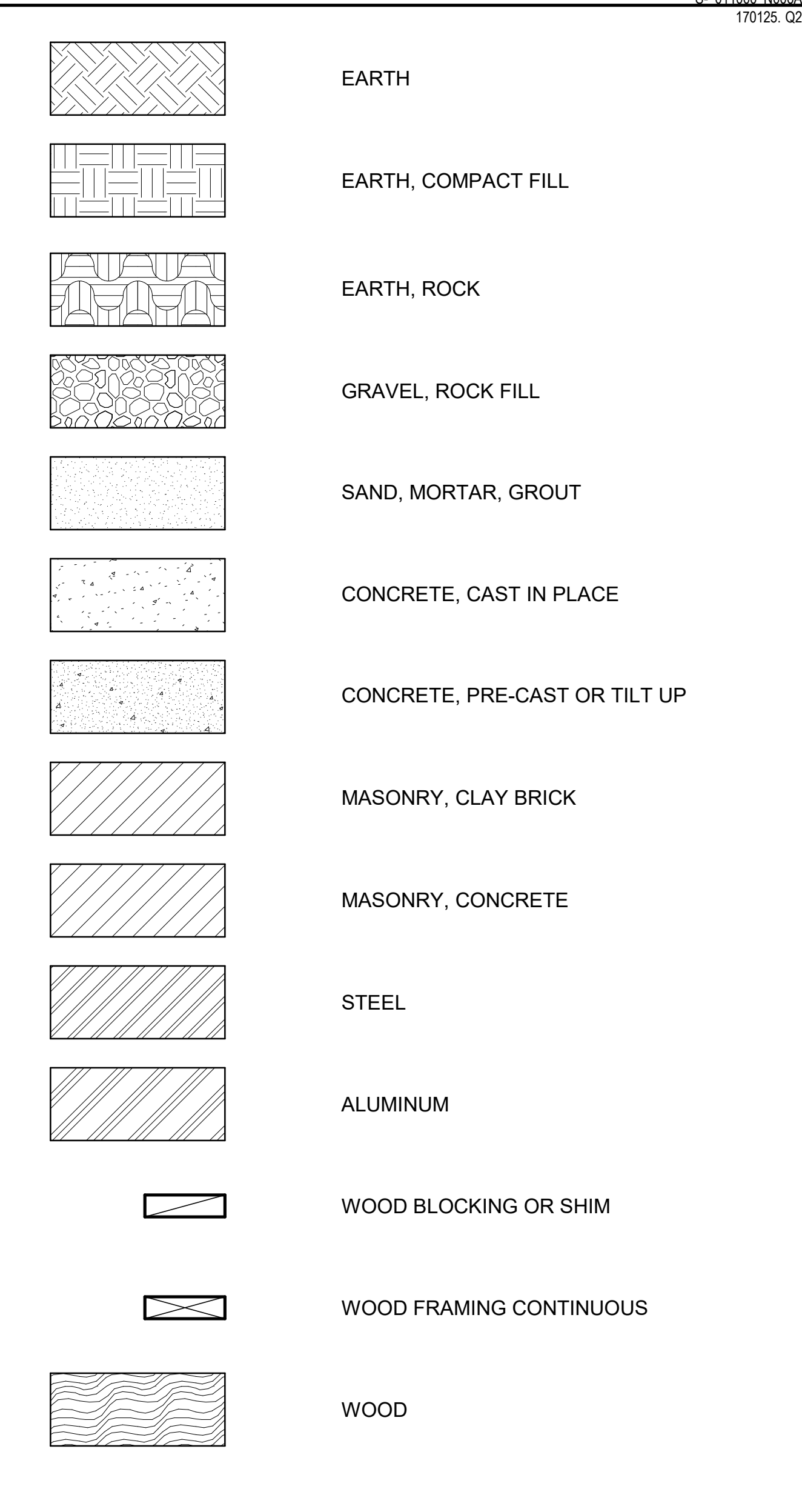
STRUCTURAL ABBREVIATIONS LEGEND

Table listing structural abbreviations and their corresponding full names, organized in two columns.

STRUCTURAL SYMBOLS LEGEND



MATERIAL SYMBOL LEGEND



STRUCTURAL GENERAL NOTES

- 1. THE STRUCTURAL NOTES AND TYPICAL DETAILS, WHETHER SPECIFICALLY REFERENCED OR NOT, ARE GENERAL AND APPLY TO ALL CONSTRUCTION DOCUMENTS. PROVIDE ALL STRUCTURAL ELEMENTS INDICATED IN THE STRUCTURAL NOTES AND TYPICAL DETAILS AS REQUIRED TO CONFORM TO THE PROJECT AS INDICATED IN OTHER CONSTRUCTION DOCUMENTS.
2. REFERENCES TO CONSTRUCTION DOCUMENTS ARE TO THE ENFORCEMENT AGENCY APPROVED DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. SUPPLEMENTAL DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ADDENDA, REVISED DRAWINGS, FIELD INSTRUCTIONS AND MODIFICATIONS PROVIDED FOR THIS PROJECT SHALL BE CONSIDERED A PART OF THE CONSTRUCTION DOCUMENT. ALL REQUIREMENTS OF THE INITIALLY APPROVED CONSTRUCTION DOCUMENTS SHALL APPLY TO ANY SUPPLEMENTAL DOCUMENTS.
3. WHERE THE CONSTRUCTION DOCUMENTS INDICATE TO NOTIFY THE STRUCTURAL ENGINEER, SUCH NOTIFICATION SHALL BE SUBMITTED IN WRITING WITH SUFFICIENT ALLOWANCE FOR A REASONABLE TIME PERIOD FOR THE DESIGN, ENFORCEMENT AGENCY APPROVAL AS REQUIRED AND WRITTEN RESPONSE SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. OBTAIN WRITTEN RESPONSE BEFORE PROCEEDING WITH THE AFFECTED WORK.
4. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS. DEVIATIONS SHALL NOT BE MADE TO THE REQUIREMENTS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS.
5. PORTIONS OF THESE CONSTRUCTION DOCUMENTS ARE DIAGRAMMATIC ONLY. ITEMS INCLUDING, BUT NOT LIMITED TO, LOCATIONS, SIZES, QUANTITIES, ACCESSORIES AND CONNECTIONS ARE NOT TO BE REPRESENTED IN A REPRESENTATIONAL MANNER AND MAY NOT BE COMPLETELY SHOWN. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
6. DIMENSIONS AND ELEVATIONS INDICATED ARE FOR STRUCTURAL ELEMENTS ONLY. ELEVATIONS SHOWN ARE BASED ON A REFERENCE ELEVATION. COORDINATE REFERENCE ELEVATIONS WITH ACTUAL ELEVATIONS. COORDINATE WITH ALL OTHER CONSTRUCTION DOCUMENTS FOR DIMENSIONS AND ELEVATIONS NOT INDICATED ON THE STRUCTURAL CONSTRUCTION DOCUMENTS. DO NOT SCALE DRAWINGS.
7. CONSTRUCTION SHALL COMPLY WITH ALL BUILDING, HEALTH AND SAFETY STANDARDS, CODES AND REGULATIONS APPLICABLE TO THIS PROJECT. NOTHING IN THE CONSTRUCTION DOCUMENTS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE STANDARDS, CODES AND REGULATIONS.
8. REFERENCES TO STANDARDS, CODES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, ICC, IBC, CBC, ACI, ASTM, ASCE, ANSI, AWS, AISI, AISC AND AISC SHALL BE TO THE LATEST EDITION AS ADOPTED BY THE ENFORCEMENT AGENCY.
9. FEATURES OF CONSTRUCTION INDICATED ARE TYPICAL, WHERE FEATURES ARE NOT FULLY OR SPECIFICALLY INDICATED BY THE CONSTRUCTION DOCUMENTS, THEIR CONSTRUCTION SHALL BE AS INDICATED FOR IDENTICAL OR SIMILAR FEATURES ELSEWHERE IN THE CONSTRUCTION DOCUMENTS. IF ANY CONDITIONS REQUIRE CONSTRUCTION DIFFERENT THAN THAT INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER.
10. STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY OTHER CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER.
11. THE CONSTRUCTION DOCUMENTS AND THE DESIGNS INCORPORATED THEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT.
12. STRUCTURAL ELEMENTS REPRESENTED IN THE CONSTRUCTION DOCUMENTS ARE INDICATED IN THEIR COMPLETE CONSTRUCTION DOCUMENTS. THE CONSTRUCTION DOCUMENTS DO NOT INDICATE MEANS, METHODS OR SEQUENCES OF CONSTRUCTION UNLESS SPECIFICALLY NOTED OTHERWISE. PROVIDE ALL MEASURES NECESSARY AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY AND TO ASSURE THE CORRECT AND ACCURATE STRUCTURE GEOMETRY AND STABILITY DURING CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE FORMING, SHORING AND BRACING. MEASURES SHALL REMAIN IN PLACE UNTIL THE STRUCTURE IS COMPLETE AND ALL OTHER STRUCTURAL ELEMENTS USED TO SUPPORT THEM HAVE BEEN COMPLETED AND HAVE ATTAINED THEIR REQUIRED DESIGN STRENGTHS.
13. PROTECT ALL ELEMENTS, WHETHER CONCEALED OR NOT, INCLUDING, BUT NOT LIMITED TO, PROPERTIES, STRUCTURES, FINISHES, STREETS, LANDSCAPING AND UTILITIES ADJACENT TO OR ON THIS SITE DURING THE CONSTRUCTION OF THIS PROJECT. SHOULD DAMAGE OCCUR TO ANY ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER. CONTROL ITEMS SUCH AS, BUT NOT LIMITED TO, DUST, DIRT, WATER, FUMES, SMOKE, TRASH, AND VIBRATION CREATED AS A RESULT OF ANY OPERATIONS DURING CONSTRUCTION IN CONFORMANCE WITH APPLICABLE STANDARDS, CODES AND REGULATIONS.
14. STRUCTURAL DESIGN LOADS, STRENGTHS, CAPACITIES AND CRITERIA INDICATED ON THE CONSTRUCTION DOCUMENTS ARE FOR THE COMPLETED STRUCTURE ONLY. THE USE OF ANY PART OR PARTS OF THE COMPLETED STRUCTURE FOR THE SUPPORT OF THE SUPPORT OF CONSTRUCTION ITEMS INCLUDING, BUT NOT LIMITED TO, OTHER PORTIONS OF THE STRUCTURE, PERSONNEL, MATERIALS AND EQUIPMENT IS LIMITED TO THE SAFE CAPACITY OF THE STRUCTURE AT THE TIME IT IS TO BE USED FOR SUCH SUPPORT. PROVIDE ALL MEASURES NECESSARY AS REQUIRED TO PREVENT OVERLOADING, EXCESSIVE MOVEMENT AND DAMAGE TO ANY PART OR PARTS OF THE STRUCTURE.
15. IF SUBSTITUTIONS ARE REQUESTED FOR STRUCTURAL ELEMENTS INDICATED IN THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUBMIT DATA AND DOCUMENTATION INCLUDING, BUT NOT LIMITED TO, COMPARATIVE QUALITY, SUITABILITY, PERFORMANCE, STRUCTURAL CAPACITY, ICC APPROVAL AND ENFORCEMENT AGENCY ACCEPTABILITY SUBSTANTIATING THE COMPLETE COMPLIANCE OF EACH PROPOSED SUBSTITUTION WITH THE CONSTRUCTION DOCUMENTS. ONLY ONE REQUEST FOR SUBSTITUTION WILL BE ALLOWED FOR EACH STRUCTURAL ELEMENT. SUBSTITUTIONS WILL NOT BE CONSIDERED WHEN SUBMITTALS ARE INCOMPLETE OR ACCEPTANCE WOULD REQUIRE REVISIONS TO THE CONSTRUCTION DOCUMENTS. PROVIDE OWNER REIMBURSEMENT FOR SERVICES REQUIRED TO OBTAIN ENFORCEMENT AGENCY APPROVAL OF SUBSTITUTIONS. IF A PROPOSED SUBSTITUTION SUBMITTAL IS NOT COMPLETE, NOT ACCEPTABLE TO THE STRUCTURAL ENGINEER, OR NOT APPROVED BY THE ENFORCEMENT AGENCY PROVIDE THE SPECIFIED ITEM AS INDICATED IN THE CONSTRUCTION DOCUMENTS. THE STRUCTURAL ENGINEER WILL BE THE SOLE JUDGE OF THE ACCEPTABILITY OF THE PROPOSED SUBSTITUTION VERSUS THE SPECIFIED ITEM. ACCEPTANCE OF A SUBSTITUTION SHALL NOT BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS.
16. SCHEDULES, LEGENDS, ABBREVIATIONS, TYPICAL NOTES AND TYPICAL DETAILS ON THE STRUCTURAL CONSTRUCTION DOCUMENTS MAY REFERENCE STRUCTURAL ELEMENTS OR REQUIREMENTS NOT SPECIFICALLY INDICATED OR REQUIRED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.
17. THE STRUCTURAL CONSTRUCTION DOCUMENTS ARE NOT COMPLETE AND READY FOR CONSTRUCTION UNTIL THEY ARE APPROVED BY THE ENFORCEMENT AGENCY AND SIGNED BY THE STRUCTURAL ENGINEER.

EXISTING CONSTRUCTION

- 1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. EXISTING FOUNDATIONS THAT MAY BE AFFECTED BY ANY EXCAVATIONS REQUIRED FOR THIS PROJECT SHALL BE UNDERPINNED, SHORED OR SUPPORTED ADEQUATELY TO PREVENT SETTLEMENT AND LATERAL MOVEMENT.
8. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR UP-LOOSE, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
9. WHEN DRILLING/CORING HOLES AT EXISTING CONCRETE OR MASONRY, DO NOT DAMAGE EXISTING REINFORCING (REBAR OR PRE/POST-TENSIONED STRANDS) UNLESS SPECIFICALLY NOTED OTHERWISE. LOCATE ALL EXISTING REINFORCING AT AFFECTED AREAS USING NON-DESTRUCTIVE MEANS PRIOR TO DRILLING/CORING HOLES. MAINTAIN A MINIMUM CLEARANCE OF TWO INCHES BETWEEN THE REINFORCEMENT AND THE HOLE.
10. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORE-DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORE-DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
11. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

STRUCTURAL DESIGN CRITERIA

- BUILDING CODE: 2022 CBC
ENFORCEMENT AGENCY: DIVISION OF THE STATE ARCHITECT (DSA)
A. VERTICAL DESIGN CRITERIA (UNLESS OTHERWISE SHOWN OR NOTED)
ROOF LIVE LOADS:
- TYP ROOF AREA 20 PSF (REDUCIBLE)
B. LATERAL DESIGN CRITERIA
SEISMIC SITE CRITERIA: SS=0.62, S1=27.2, SDS=0.54, S01=1.4, SITE CLASS: D (DEFAULT)
BUILDING CRITERIA:
SEISMIC:
- RISK CATEGORY= II
- IMPORTANCE FACTOR: I=1.00
- SEISMIC DESIGN CATEGORY = D
- SEISMIC FORCE RESISTING SYSTEM: (E) LIGHT-FRAMED WOOD SHEAR WALLS
WIND:
BASIC DESIGN WIND SPEED, V(U1T) = 94 MPH
ALLOWABLE STRESS DESIGN WIND SPEED, (V(ASD)) = 72 MPH
RISK CATEGORY = II
WIND EXPOSURE = C
GCP1 = +1.016
WIDTH OF PRESSURE COEFFICIENT ZONE, a = 3'-0"
COMPONENTS AND CLADDING WIND PRESSURES TO BE DETERMINED PER ASCE 7-16
C. SOIL DESIGN CRITERIA
SOIL INFO IS BASED ON GEOTECHNICAL REPORT REFERENCED ON SHEET S-1 OF DSA APP 02-26814
LOWRY & ASSOCIATES / 64-304
SPREAD FOUNDATIONS:
- ALLOWABLE BEARING PRESSURE:
DL = 2000 PSF
DL + LL = 3000 PSF
DL + LL + LATERAL = 4000 PSF
D. HAZARDS
FLOOD DESIGN DATA: N/A - PROJECT SITE DOES NOT OCCUR IN COMMUNITY FLOOD HAZARD REGION AND NOT SUBJECT TO GREATER THAN 1% CHANCE OF FLOODING IN ANY YEAR.

PROJECT DIRECTORY

Table listing project details for the Structural Engineer, Civil Engineer, Mechanical Engineer, Pool Engineer, and Electrical Engineer, including contact information and firm names.

STRUCTURAL SHEET INDEX

Table showing the sheet number and sheet name for various structural components like foundation, framing, and steel.

Professional Engineer identification stamp for Lucas A. Jolly, State of California, No. S5155, dated 05/09/2024.



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

CONSULTANT

ARCHITECT
LIONAKIS
2025 19TH STREET
SACRAMENTO, CA 95818
CONTACT: JENNIFER QUIGLEY
PHONE: 916.558.1900
EMAIL: JENNIFER.QUIGLEY@LIONAKIS.COM

ELECTRICAL ENGINEER
LP CONSULTING ENGINEERING
1209 PLEASANT GROVE BLVD.
ROSSVILLE, CA 95078
CONTACT: TOM SCHLEPP
PHONE: 916.771-0778
EMAIL: TCSCHLEPP@PENGINEERS.COM

Table with columns for SHEET NUMBER and SHEET NAME, listing various structural components.

Professional Engineer identification stamp for Lucas A. Jolly, State of California, No. S5155, dated 05/09/2024.

PROJECT
JOHN F KENNEDY HIGH SCHOOL
SWIMMING POOL UPGRADE

6715 GLORIA DR
SACRAMENTO, CA 95831

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

Table with columns for MARK, DATE, and DESCRIPTION, showing issue dates and descriptions.

Table with columns for MANAGEMENT, LIONAKIS PROJECT NO., CLIENT PROJECT NO., and COPYRIGHT, showing project identification numbers.

GENERAL NOTES

SHEET
S-001

IF THIS SHEET IS NOT 34" X 42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY
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STRUCTURAL SUBMITTALS

- S. 013000 N002A
170125 02
- SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO, SHOP DRAWINGS, FABRICATION DRAWINGS, PLACEMENT DRAWINGS, CALCULATIONS, DESIGNS, TEST DATA, PRODUCT DATA, SAMPLES, CERTIFICATIONS AND REPORTS AS REQUIRED BY THE CONSTRUCTION DOCUMENTS.
 - SUBMITTALS, AS A MINIMUM, SHALL CONSIST OF TWO (2) COPIES OF EACH SHEET.
 - SUBMITTALS SHALL NOT CONTAIN NOR CONSIST OF REPRODUCTIONS OF THE CONSTRUCTION DOCUMENTS. SUBMITTALS CONTAINING REPRODUCTIONS OF ANY PORTION OF THE CONSTRUCTION DOCUMENTS ARE SUBJECT TO REJECTION.
 - EACH SUBMITTAL SHALL HAVE A COVER SHEET IDENTIFYING THE CONTENTS BY SPECIFICATION SECTION AND LISTING EACH ITEM AND SHEET NUMBER. EACH SUBMITTAL SHALL HAVE A UNIQUE IDENTIFICATION NUMBER.
 - PRIOR TO SUBMISSION TO THE STRUCTURAL ENGINEER, STAMP SUBMITTALS INDICATING THEY HAVE BEEN REVIEWED AND APPROVED FOR COMPLETENESS AND CONFORMANCE WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS. SUBMITTALS THAT ARE DETERMINED TO BE INCOMPLETE, IN THE JUDGMENT OF THE STRUCTURAL ENGINEER, WILL BE RETURNED WITHOUT REVIEW SO THEY CAN BE COMPLETED. THE STRUCTURAL ENGINEER SHALL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.
 - PRIOR TO SUBMISSION TO THE STRUCTURAL ENGINEER, THE OWNER'S TESTING LABORATORY SHALL STAMP THE FOLLOWING MARKED SUBMITTALS INDICATING THEY HAVE BEEN REVIEWED AND APPROVED FOR COMPLETENESS AND CONFORMANCE WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS:
 - CONCRETE MIX DESIGNS AND SUBSTITUTING TEST DATA
 - MASONRY GROUT MIX DESIGNS AND SUBSTITUTING TEST DATA
 - WELDING PROCEDURE SPECIFICATIONS
 - SUBMITTALS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO UTILIZATION, INSTALLATION, FABRICATION OR CONSTRUCTION OF ITEMS CONTAINED WITHIN THE SUBMITTALS.
 - SUBMITTALS SHALL BE DELIVERED TO THE STRUCTURAL ENGINEER TO ALLOW SUFFICIENT TIME, IN THE STRUCTURAL ENGINEER'S JUDGMENT, FOR A REASONABLE PERIOD FOR ADEQUATE REVIEW, ENFORCEMENT AGENCY APPROVAL AS REQUIRED AND RESPONSE SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. ALLOW THE STRUCTURAL ENGINEER THE GREATER SUBMITTAL REVIEW PERIOD OF: TEN (10) WORK DAYS, OR FIVE (5) WORK DAYS FOR EACH 100 SHEETS, OR PORTION THEREOF, FOR EACH SUBMITTAL. SUBMITTAL REVIEW PERIOD COMMENCES THE NEXT WORK DAY AFTER SUBMITTAL RECEIPT BY THE STRUCTURAL ENGINEER. CONCURRENT SUBMITTALS OF MULTIPLE PORTIONS OF THE SAME SUBMITTAL ITEM WILL BE REVIEWED IN THEIR ENTIRETY BY ONE SUBMITTAL SUBJECT TO THE REVIEW PERIOD LIMITATION ABOVE. SCHEDULE SUBMITTAL REVIEWS AND CONSTRUCTION ACCORDINGLY.
 - REVIEW OF SUBMITTALS BY THE STRUCTURAL ENGINEER WILL INCLUDE CHECKING FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONSTRUCTION DOCUMENTS. IT WILL NOT INCLUDE REVIEW OF THE ACCURACY OR COMPLETENESS OF ITEMS SUCH AS QUANTITIES, DIMENSIONS, WEIGHTS OR GAUGES, FABRICATION PROCESSES, CONSTRUCTION MEANS OR METHODS, COORDINATION WITH THE WORK OF OTHER TRADES, OR CONSTRUCTION SAFETY PRECAUTIONS. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT THE STRUCTURAL ENGINEER HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO THE STRUCTURAL ENGINEER'S ATTENTION IN WRITING.
 - SUBMITTALS PROCESSED BY THE STRUCTURAL ENGINEER ARE NOT CHANGE ORDERS.
 - SUBMITTALS THAT WILL REQUIRE ADDITIONAL REVIEW, IN THE STRUCTURAL ENGINEER'S JUDGMENT, WILL BE MARKED "REVIEW". THE SUBMITTAL SHALL BE REVISED AND RESUBMITTED FOR RE-REVIEW AND IS SUBJECT TO ALL THE REQUIREMENTS OF THE INITIAL SUBMITTAL. PROVIDE OWNER REIMBURSEMENT FOR STRUCTURAL ENGINEER COSTS INCURRED TO RE-REVIEW SUBMITTALS.
 - SUBMITTALS THAT HAVE BEEN REVIEWED AND RETURNED BY THE STRUCTURAL ENGINEER REGARDLESS OF THE NUMBER OF SUBMITTALS, SHALL NOT BE PERMITTED TO PERMIT WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS.
 - THE MINIMUM REQUIRED STRUCTURAL SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING MARKED ITEMS:
 - PILE FABRICATION DRAWINGS AND CALCULATIONS
 - CONCRETE MIX DESIGNS AND SUBSTITUTING TEST DATA
 - CONCRETE REINFORCING PLACEMENT DRAWINGS
 - CONCRETE PRODUCT CERTIFICATION AND DATA SHEETS
 - SLAB JOINT LAYOUT
 - MASONRY REINFORCING PLACEMENT DRAWINGS
 - MASONRY GROUT MIX DESIGNS AND SUBSTITUTING TEST DATA
 - MASONRY MORTAR MIX DESIGNS
 - MASONRY PRODUCT CERTIFICATION AND DATA SHEETS
 - STRUCTURAL STEEL SHOP DRAWINGS
 - STEEL DECK PLACEMENT DRAWINGS AND DATA SHEETS
 - WELDING PROCEDURE SPECIFICATIONS
 - METAL-PLATE-CONNECTED WOOD TRUSS PLACEMENT DRAWINGS AND CALCULATIONS
 - WOOD JOIST PLACEMENT DRAWINGS AND CALCULATIONS
 - METAL WEB WOOD JOIST PLACEMENT DRAWINGS AND CALCULATIONS
 - GLUED/LAMINATED TIMBER FABRICATION AND PLACEMENT DRAWINGS AND CERTIFICATIONS
 - PRE-ENGINEERED LUMBER CERTIFICATIONS AND DATA SHEETS
 - OPEN WEB STEEL JOIST PLACEMENT DRAWINGS AND CALCULATIONS
 - PRE-ENGINEERED STEEL STAIR SHOP DRAWINGS AND CALCULATIONS
 - COLD-FORMED STEEL FRAMING PRODUCTS, ACCESSORIES, DATA SHEETS AND CALCULATIONS

STRUCTURAL TESTING & INSPECTION

- S. 014500 N002A
181002 02
- SPECIAL INSPECTION IS DEFINED AS THE INSPECTION OF THE MATERIALS, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS REQUIRING SPECIAL EXPERTISE TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.
 - THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PERFORM INSPECTIONS DURING CONSTRUCTION FOR ITEMS NOTED IN DSA FORM 103. REFER TO PROJECT DETAILS AND LIST BELOW FOR SPECIFIC ITEMS EXEMPT FROM TESTING AND INSPECTION REQUIREMENTS.
 - CONCRETE BATCH PLANT INSPECTION NOT REQUIRED AT SITE. FLATWORK PROVIDED A LICENSED WEIGHMASTER POSITIVELY IDENTIFIES QUANTITY OF MATERIALS AND CERTIFIES EACH LOAD BY A BATCH TICKET.
 - WELDING TESTING/INSPECTION NOT REQUIRED FOR NON-STRUCTURAL COMPONENTS THAT ARE LESS THAN 400# SUPPORTED ON A FLOOR OR ROOF WITH CENTER OF MASS 4' OR LESS ABOVE SUPPORTING FLOOR OR ROOF, AND COMPONENTS THAT ARE LESS THAN 20# (FOR DISCRETE UNITS) OR 5 LBS (FOR DISTRIBUTED SYSTEMS).
 - THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE ENFORCEMENT AGENCY AND THE ARCHITECT/STRUCTURAL ENGINEER, FOR THE INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
 - SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE ENFORCEMENT AGENCY, OWNER, CONTRACTOR AND ARCHITECT/STRUCTURAL ENGINEER. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS.
 - DISCREPANCIES IN THE INSPECTED WORK SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENFORCEMENT AGENCY, OWNER, CONTRACTOR AND ARCHITECT/STRUCTURAL ENGINEER PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.
 - A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY, OWNER, CONTRACTOR AND ARCHITECT/STRUCTURAL ENGINEER AT THE COMPLETION OF THE WORK INCLUDED IN THE CONSTRUCTION DOCUMENTS.
 - SCHEDULE AND COORDINATE ALL STRUCTURAL TESTS AND SPECIAL INSPECTIONS. NOTIFY THE SPECIAL INSPECTOR 48 HOURS MINIMUM PRIOR TO PERFORMING ANY WORK REQUIRING THE SPECIAL INSPECTOR'S PRESENCE. COORDINATE WITH THE SPECIAL INSPECTOR SO THAT THE WORK REQUIRING THE TESTS AND INSPECTIONS NOTED ABOVE IS ACCESSIBLE AND EXPOSED FOR TESTING AND INSPECTION PURPOSES. REMOVE AND/OR REPLACE MATERIALS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER TO ALLOW TESTS AND INSPECTIONS.

STRUCTURAL OBSERVATION

- S. 014500 N001A
170125 02
- STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM BY THE STRUCTURAL OBSERVER (THE STRUCTURAL ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE) FOR GENERAL CONFORMANCE TO THE ENFORCEMENT AGENCY APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM.
 - STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY THE ENFORCEMENT AGENCY OR BY OTHER SECTIONS OF THE BUILDING CODE. REQUIRED INSPECTIONS DO NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR STRUCTURAL OBSERVATION.
 - STRUCTURAL OBSERVATION DOES NOT INCLUDE THE SUPERVISION OF CONSTRUCTION FOR PROPER EXECUTION OF THE WORK SHOWN IN THE CONSTRUCTION DOCUMENTS.
 - THE FOLLOWING COMPLETED CONSTRUCTION STAGES MARKED ARE SUBJECT TO STRUCTURAL OBSERVATION IF DEEMED NECESSARY DURING CONSTRUCTION BY THE STRUCTURAL OBSERVER:
 - FOUNDATION EXCAVATIONS AND REINFORCEMENT PRIOR TO CONCRETE PLACEMENT
 - FORMWORK CONSTRUCTION AND REINFORCEMENT PRIOR TO CONCRETE PLACEMENT
 - CONCRETE TILT-UP PANEL INSTALLATION
 - MASONRY INSTALLATION AND REINFORCEMENT PRIOR TO GROUT PLACEMENT
 - STEEL FRAMING ERECTION
 - STEEL DECK INSTALLATION AND REINFORCEMENT PRIOR TO CONCRETE FILL PLACEMENT
 - STEEL DECK INSTALLATION ON FRAMING
 - WOOD FRAMING ERECTION
 - WOOD STRUCTURAL PANEL INSTALLATION ON FRAMING
 - WOOD HARDWARE AND CONNECTOR INSTALLATION ON STRUCTURAL FRAMING
 - COLD-FORMED STEEL FRAMING ERECTION
 - PRE-FABRICATED STRUCTURAL ELEMENT INSTALLATION
 - PRIOR TO THE CLOSING OF ANY PHASE
 - STRUCTURAL SYSTEM COMPLETION
 - NOTIFY THE STRUCTURAL OBSERVER 48 HOURS MINIMUM IN ADVANCE OF THE COMPLETION OF THE ABOVE CONSTRUCTION STAGES TO FACILITATE STRUCTURAL OBSERVATIONS BY THE STRUCTURAL OBSERVER. COORDINATE WITH THE STRUCTURAL OBSERVER SO THAT THE WORK FOR THE CONSTRUCTION STAGES NOTED ABOVE IS ACCESSIBLE AND EXPOSED FOR STRUCTURAL OBSERVATION PURPOSES. REMOVE AND/OR REPLACE MATERIALS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER TO ALLOW STRUCTURAL OBSERVATION.
 - DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOTED DURING STRUCTURAL OBSERVATIONS SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
 - PROVIDE OWNER REIMBURSEMENT FOR DESIGN PROFESSIONAL COSTS INCURRED TO CORRECT DEVIATIONS AND TO MAKE REVISIONS TO THE CONSTRUCTION DOCUMENTS, INCLUDING OBTAINMENT OF ENFORCEMENT AGENCY APPROVAL AS REQUIRED.
 - CORRECTIVE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE ENFORCEMENT AGENCY APPROVED CONSTRUCTION DOCUMENTS AND THE BUILDING CODE.
 - AT THE COMPLETION OF THE WORK INCLUDED IN THE CONSTRUCTION DOCUMENTS, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE ENFORCEMENT AGENCY A WRITTEN STATEMENT THAT THE STRUCTURAL OBSERVATIONS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

FOUNDATION AND EARTHWORK

- S. 030000 N002A
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- ALL FOUNDATION AND EARTHWORK INCLUDING, BUT NOT LIMITED TO, EXCAVATION, GRADING, FILLING, SUB-GRADE PREPARATION, SOIL TREATMENT, ASSOCIATED SITE WORK, TRENCHING AND BACKFILLING SHALL BE PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
 - THE GEOTECHNICAL INFORMATION PROVIDED IS BASED UPON INFORMATION CONTAINED WITHIN EXISTING CONSTRUCTION DOCUMENTS PROVIDED BY THE OWNER FOR THIS PROJECT.
 - THE GEOTECHNICAL INFORMATION PROVIDED IS NOT A WARRANTY OF THE SITE OR SUBSURFACE CONDITIONS. PRIOR TO BIDDING AND AT NO COST TO THE OWNER, SITE VISITS TO INVESTIGATE OR TO PERFORM ADDITIONAL SUBSURFACE INVESTIGATIONS MAY BE MADE TO DETERMINE THE EXISTING CONDITIONS. SUCH INVESTIGATIONS MAY BE PERFORMED ONLY UNDER THE SCHEDULES AND ARRANGEMENTS APPROVED BY THE OWNER IN ADVANCE.
 - AN OWNER-RETAINED SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER SHALL PROVIDE TESTING AND INSPECTION SERVICES DURING ALL FOUNDATION AND EARTHWORK. PRIOR TO REQUESTING AN ENFORCEMENT AGENCY FOUNDATION INSPECTION, OBTAIN WRITTEN DOCUMENTATION FROM THE SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER THAT THE FOUNDATION AND EARTHWORK IS IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.
 - NOTIFY THE SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER 48 HOURS IN ADVANCE OF THE TIME WHEN THE FOUNDATION EXCAVATIONS AND EARTHWORK WILL BE COMPLETE AND READY FOR FORMS OR REINFORCING PLACEMENT. NO FORMS OR REINFORCING SHALL BE PLACED IN ANY FOUNDATION UNTIL THE EXCAVATION HAS BEEN INSPECTED AND APPROVED BY THE SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER.
 - FOUNDATIONS SHALL EXTEND INTO FIRM BEARING IN UNDISTURBED SOIL, OR WHERE REQUIRED, IN COMPACTED FILL MATERIAL OR CONTROLLED LOW-STRENGTH MATERIAL PER THE CONSTRUCTION DOCUMENTS. FOUNDATION DEPTHS SHOWN ON THE CONSTRUCTION DOCUMENTS ARE MINIMUM DEPTHS ONLY. FOUNDATION EXCAVATIONS MAY BE REQUIRED TO BE OVER-EXCAVATED TO REACH SUITABLE BEARING MATERIAL, WHERE THE SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER HAS DETERMINED OVER-EXCAVATION IS REQUIRED. THE REMOVED MATERIAL MAY BE REPLACED WITH COMPACTED FILL MATERIAL OR CONTROLLED LOW-STRENGTH MATERIAL PER THE CONSTRUCTION DOCUMENTS.
 - FOUNDATIONS BELOW GRADE SHALL BE FORMED UNLESS WRITTEN DOCUMENTATION PERMITTING UNFORMED FOOTINGS IS OBTAINED FROM THE SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER. FORWARD WRITTEN DOCUMENTATION TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO THE START OF FOUNDATION EXCAVATIONS. THE SIDES OF UNFORMED FOUNDATION EXCAVATIONS MUST BE ABLE TO STAND WITHOUT CAVING OR SLOUGHING. PROVIDE FORMS OR PROTECTION AS REQUIRED TO PREVENT THE EROSION OF SOIL INTO EXCAVATIONS. WHERE UNFORMED FOUNDATIONS ARE USED, COORDINATE AND COMPLY WITH THE CONCRETE PROTECTION REQUIREMENTS FOR REINFORCEMENT PLACED ADJACENT TO EARTH. FOUNDATIONS ABOVE GRADE SHALL BE FORMED. ALL FORMS SHALL BE REMOVED ABOVE OR BELOW GRADE, UNLESS OTHERWISE NOTED.
 - THE TOP SURFACE OF FOUNDATIONS SHALL BE LEVEL. THE BOTTOM SURFACE OF FOUNDATIONS IS PERMITTED TO HAVE A SLOPE NOT EXCEEDING ONE UNIT VERTICAL IN TEN UNITS HORIZONTAL. FOOTINGS SHALL BE STEPPED WHERE IT IS NECESSARY TO CHANGE THE ELEVATION OF SOIL INTO EXCAVATIONS. WHERE UNFORMED FOUNDATIONS ARE USED, ADJACENT EXTERIOR FINISHED GRADE OR SURFACE SLOPES DOWN AND AWAY FROM THE FOUNDATION, THE TOP OF EXTERIOR FOOTINGS SHALL BE NO HIGHER THAN THE ELEVATION OF THE FINISHED GRADE OR SURFACE LOCATED 18 INCHES FROM THE FACE OF SUCH FOOTING. UNLESS OTHERWISE NOTED, STEP FOOTINGS AS REQUIRED PER TYPICAL DETAILS TO OBTAIN THE MINIMUM DIMENSIONS REQUIRED.
 - FOUNDATION DEPTHS SHOWN ON THE CONSTRUCTION DOCUMENTS ARE MINIMUM DEPTHS ONLY AND DO NOT NECESSARILY ACCOUNT FOR ALL PIPES, CONDUITS, UTILITIES AND TRENCHES ADJACENT TO OR CROSSING FOOTINGS AS REQUIRED BY ALL OTHER CONSTRUCTION DOCUMENTS. SHALL NOT BE CONSIDERED TO COMPLY WITH THE REQUIREMENTS OF TYPICAL DETAILS FOR PIPES AND CONDUITS AT FOOTINGS.
 - FOR DAMP-PROOFING, WATER-PROOFING AND DRAINAGE SYSTEMS ADJACENT TO FOUNDATIONS, SEE ALL OTHER CONSTRUCTION DOCUMENTS.
 - FOUNDATION ELEMENTS SHOWN ARE INDICATED IN THEIR COMPLETED LOCATION AND CONDITION. FILL AROUND FOUNDATION ELEMENTS SHALL BE PLACED IN LIFTS AND COMPACTED IN A MANNER THAT DOES NOT DAMAGE OR MOVE THE FOUNDATION, WATER-PROOFING OR DAMP-PROOFING. SHORE AND ADEQUATELY SUPPORT FOUNDATION ELEMENTS WHILE PLACING FILL UNTIL THE FOUNDATION ELEMENTS AND THEIR SUPPORTING STRUCTURAL ELEMENTS HAVE BEEN COMPLETED AND ATTAINED THEIR REQUIRED DESIGN STRENGTHS.
 - FOUNDATION EXCAVATIONS SHALL BE CLEANED OF DEBRIS, LOOSE SOIL AND STANDING WATER DURING CONSTRUCTION AND IMMEDIATELY PRIOR TO CONCRETE PLACEMENT. PROVIDE FUR DE-WATERING IF WATER IS PRESENT IN THE EXCAVATIONS DUE TO ANY SOURCE.
 - FOUNDATION EXCAVATIONS SHALL BE MADE TO THE SIZES AND SHAPES REQUIRED BY THE CONSTRUCTION DOCUMENTS. NO MATERIAL IS TO BE EXCAVATED UNNECESSARILY.
 - EXTERIOR FINISHED GRADES OR SURFACES SHALL HAVE POSITIVE DRAINAGE AWAY FROM FOUNDATIONS. GROUND SURFACES WITHIN TEN FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED A MINIMUM OF 5%. PAVED SURFACES WITHIN TEN FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED A MINIMUM OF 2%. PLANTERS SHALL HAVE ADEQUATE SURFACE DRAINAGE TO PREVENT STANDING WATER ADJACENT TO THE FOUNDATIONS.
 - WHERE EXCAVATIONS OCCUR ADJACENT TO EXISTING STRUCTURES, PROVIDE ADEQUATE UNDERPINNING, SHORING OR SUPPORT TO PREVENT SETTLEMENT AND LATERAL MOVEMENT OF THE EXISTING FOUNDATIONS. FOUNDATIONS ADJACENT TO EXISTING FOUNDATIONS SHALL PENETRATE A MINIMUM OF THE SAME DEPTH AS EXISTING, UNLESS OTHERWISE NOTED.
 - FOUNDATION SIZES SHALL BE AS REQUIRED ON THE CONSTRUCTION DOCUMENTS. THE MINIMUM DEPTH NOTED SHALL BE BELOW THE ADJACENT UNDISTURBED GROUND SURFACE. THE MINIMUM DEPTH SHALL ALSO EXTEND BELOW THE FROST LINE OF THE LOCALITY. FOOTINGS SHALL NOT BEAR ON FROZEN SOIL.

CONTROLLED LOW STRENGTH MATERIAL (CLSM)

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- CLSM SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH BETWEEN 50 PSI AND 150 PSI AS TESTED PER ASTM D4829.
 - CLSM MATERIALS SHALL MEET THE RECOMMENDATIONS OF ACI 220R.
 - CLSM SHALL HAVE A MINIMUM SLUMP OF 10".
 - TESTING LAB SHALL FIELD VERIFY STRENGTH OF CLSM WITH A MINIMUM FREQUENCY OF ONE TEST PER DAY.

REINFORCED CONCRETE

- S. 030000 N002A
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- CONCRETE MATERIALS, QUALITY CONTROL AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318.
 - SEE CONCRETE MIX DESIGN TABLE FOR REQUIRED CONCRETE PROPERTIES.
 - PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE II.
 - AGGREGATES SHALL CONFORM TO ASTM C33 FOR NORMAL-WEIGHT AND ASTM C330 FOR LIGHTWEIGHT CONCRETE. MAXIMUM AGGREGATE SIZE USED IN MIXES SHALL BE APPROPRIATE FOR FORM AND REBAR CLEARANCES TO BE ENCOUNTED.
 - REINFORCING STEEL SHALL CONFORM TO ASTM A706, GRADE 60, OR ASTM A615, GRADE 60.
 - REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60. WELD FILLER METAL FOR REINFORCING STEEL SHALL COMPLY WITH AWS D1.4, Fu=60 KSI. WELDING SHALL CONFORM WITH AWS D1.4.
 - WELDED WIRE REINFORCEMENT SHALL BE COMPOSED OF FLAT SHEETS AND CONFORM TO ASTM A194.
 - DIMENSIONS LOCATING REINFORCING STEEL ARE TO THE FACE OF REINFORCING STEEL AND DENOTE CLEAR COVERAGE. MINIMUM CONCRETE COVER SHALL BE AS FOLLOWS, UNO:
 - CONCRETE CAST AGAINST EARTH (EXCEPT SLAB ON GRADE) - 3"
 - SLAB ON GRADE - CENTER REINF IN SLAB, UNO
 - CONCRETE FORMED & EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:
 - #6 THRU #18 BARS - 2"
 - #6 BAR, W31 OR D31 WIRE, & SMALLER - 1 1/2"
 - BEAMS & COLUMNS - 1 1/2"
 - SLABS & WALLS: #14 & #18 BARS - 1 1/2", #11 BAR & SMALLER - 3/4"
 - SPICES IN CONTINUOUS REINFORCING SHALL BE LAPPED AS NOTED IN THE TYPICAL DETAIL, UNO. SPICES IN ADJACENT BARS SHALL BE STAGGERED SO THERE IS NO OVERLAP. LAP SPICES OF #14 & #18 REBAR IS NOT PERMITTED AND BARS SHALL BE CONTINUOUS ONE PIECE FOR THE FULL LENGTH SHOWN. LAP SPICES OF REBAR IN A BUNDLE SHALL BE EQUAL TO THE LAP SPICE LENGTH REQUIRED FOR THE INDIVIDUAL BARS WITHIN THE BUNDLE MULTIPLIED BY 1.33. INDIVIDUAL BAR SPICES WITHIN A BUNDLE SHALL NOT OVERLAP. ENTIRE BUNDLES SHALL NOT BE LAP SPICED.
 - UNLESS SPECIFIED OTHERWISE: REINFORCING IN CONTINUOUS BEAMS AND SPANDRELS SHALL HAVE THE TOP BARS SPICED AT MID-SPAN AND THE BOTTOM BARS SPICED AT THE CENTERLINE OF SUPPORTS. REINFORCING IN CONTINUOUS SOIL-BEARING GRADE BEAMS OR FOOTINGS SHALL HAVE THE TOP BARS SPICED AT CENTERLINE OF COLUMN SUPPORTS AND THE BOTTOM BARS SPICED AT MID-SPAN. AT DISCONTINUOUS ENDS, THE BARS SHALL BE TERMINATED WITH A STANDARD HOOK EXTENDED TO THE FAR FACE OF THE SUPPORT OR BEAM.
 - PROVIDE FOUNDATION DOWELS TO MATCH GRADE, QUANTITY, SIZE & SPACING OF WALL/COLUMN REINFORCEMENT. EXTEND DOWELS INTO FOOTINGS AND TERMINATE WITH A STANDARD HOOK 3" ABOVE BOTTOM OF FOOTING, UNO. PROVIDE STANDARD LAP AT DOWELS TO EACH WALL/COLUMN REBAR.
 - HOOKS SHALL BE STANDARD HOOKS, UNO.
 - ITEMS TO BE EMBEDDED IN CONCRETE, SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC SHALL BE SECURELY TIED AND SUPPORTED PRIOR TO PLACING CONCRETE.
 - THE LOCATION OF SLAB ON GRADE JOINTS SHALL BE AS INDICATED ON THE DRAWINGS. SLAB ON GRADE JOINT SPACINGS ARE NOT TO EXCEED 12'-0" IN EITHER DIRECTION, UNO. SUBMIT LOCATION PLAN FOR ALL PROPOSED JOINTS FOR REVIEW.
 - SURFACE OF CONSTRUCTION JOINTS SHALL BE CLEANED AND LAITANCE REMOVED. IMMEDIATELY BEFORE CONCRETE IS PLACED, CONSTRUCTION JOINTS SHALL BE WETTED AND STANDING WATER REMOVED. CONSTRUCTION JOINT SURFACES SHALL BE ROUGHENED TO A 1/4" MINIMUM AMPLITUDE, UNO.
 - FORM 3/4" CHAMFER AT ALL EXPOSED WALL AND COLUMN EDGES AND CORNERS, UNO.
 - EXTERIOR SLABS INCLUDING SIDEWALKS SHALL BE 4" MIN THICKNESS AND HAVE 6x6-W1.4xW1.4 WWR IN CENTER OF SLAB, UNO.
 - NO CONDUIT, PIPE, OR SLEEVES LARGER THAN 1" OD SHALL BE PLACED IN OR THROUGH CONCRETE BEAMS OR SLABS UNLESS SPECIFICALLY DETAILED AND APPROVED BY THE STRUCTURAL ENGINEER. CONDUIT OR PIPES 3" OD AND SMALLER SHALL BE SPACED & POSITIONED SUCH THAT THE EFFECTIVENESS OF THE REBAR IS NOT REDUCED.

CONCRETE MIX DESIGN

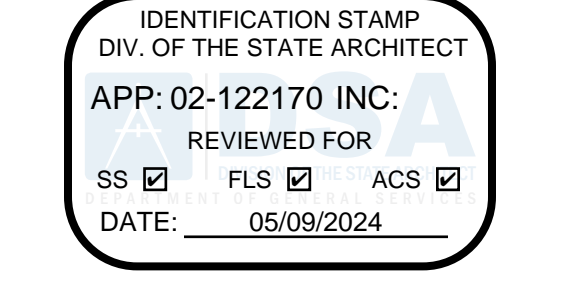
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MIX DESIGN TABLE							
LOCATION	MAX SCM (% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIALS)	REG EARLY COMPRESSIVE STRENGTH (PSI)	REG 28 DAY COMPRESSIVE STRENGTH (PSI)	AIR CONTENT (%)	MAX W/C RATIO	MAX AIR DRY WEIGHT (LBS/FT ³)	ACI EXPOSURE CLASS
SLAB ON GRADE AND BUILDING CURBS/FTGS	15	2500 PRIOR TO LOADING	3000	NONE	0.45	145	F0, S0, W0, C1

STRUCTURAL STEEL

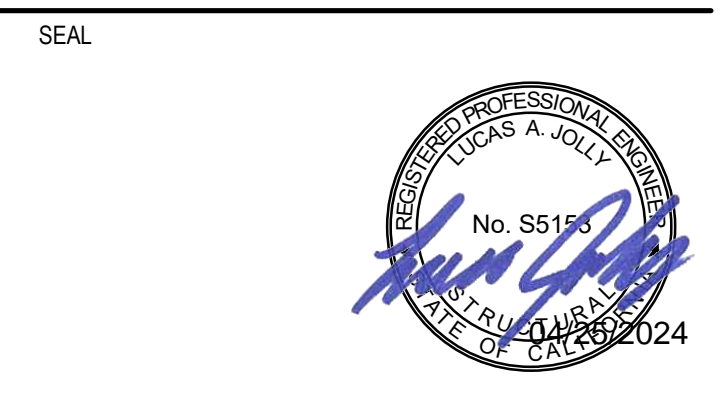
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- THE DESIGN, FABRICATION AND ERECTION OF STEEL SHALL BE IN ACCORDANCE WITH AISC 360 AND AISC 341 INCLUDING ANY ENFORCEMENT AGENCY AMENDMENTS.
 - STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING, UNO.

STEEL PRODUCT	ASTM SPECIFICATION, UNO	COMMENTS
W & WT SHAPES	A992, GRADE 50	Fy = 50ksi
HV SHAPES	A572, GRADE 50	Fy = 50ksi
M, MT, S & ST SHAPES	A36	Fy = 36ksi
CHANNELS (C & MC)	A36	Fy = 36ksi
ANGLES	A36	Fy = 36ksi
PLATES & BARS	A36, TYP, UNO	Fy = 36ksi
RODS, PLAIN & ALL-THREADED	A572, GRADE 50	Fy = 50ksi
RAISED-PATTERN FLOOR PLATE	A36	Fy = 36ksi
PIPES	A53, GRADE B	Fy = 35ksi
CIRCULAR HSS	A500, GRADE C	Fy = 45ksi
RECTANGULAR & SQUARE HSS	A500, GRADE C	Fy = 45ksi
BOLTS	A307, GRADE A, HEX	Fy = 60ksi
WASHERS	F544	Fy = 36ksi
PLATE WASHERS	A36	Fy = 36ksi
HARDENED WASHERS	F436, TYPE I	
NUTS FOR BOLTS & RODS	A563, HEAVY HEX, GRADE A TYP, UNO	
ANCHOR BOLTS & RODS (HEADED OR THREADED & NUTTED)	F1554, CLASS 2A, S3	
	GRADE 36 TYP, UNO	Fy = 36ksi
	GRADE 55 S1 & S4	Fy = 55ksi
	GRADE 105, S4 & S5	Fy = 105ksi
	GRADE 105, 1010 - 1020	
WELDED HEADED STUDS, SHEAR STUDS, & WELDED THREADED STUDS	A496	Fy = 75ksi
DEFORMED BAR ANCHORS	AWS D1.1	
WELD FILLER METAL	E6068	
TURNBUCKLES	A668	
CONES, CONE DISKS, PINS, COTTER PINS	A668	
EYEBOLTS & EYEBOLTS	ANSI C-1030	
SLEEVE NUTS	A563, HEAVY HEX	
RECESSING NUTS & PINS	A563, HEAVY HEX	
COUPLING NUTS	A563, HEAVY HEX	
 - EXPOSED INTERIOR STEEL SHALL RECEIVE ONE COAT OF PRIMER PAINT, UNO. DO NOT PAINT SURFACES IN DIRECT CONTACT WITH CONCRETE OR MASONRY, WHERE FIELD WELDING IS REQUIRED, WHERE FIRE-PROOFING IS REQUIRED OR CONTACT SURFACES OF STEEL-TO-STEEL, AND DECK-TO-STEEL CONNECTIONS. CONCEALED STEEL DOES NOT REQUIRE PAINT, UNO.
 - EXPOSED EXTERIOR STEEL & FASTENERS SHALL BE HOT DIP GALVANIZED, UNO. PROVIDE FILL AND VENT HOLES AT ENCLOSED SPACES OF HOLLOW PIECES. SEAL HOLES WATER-TIGHT AFTER GALVANIZING. PROVIDE DRAIN HOLES AS REQUIRED AT SOLID PIECES. HOLE SIZES AND LOCATIONS SHALL NOT DETRIMENTALLY AFFECT THE PIECES STRUCTURAL CAPACITY AND ARE SUBJECT TO THE STRUCTURAL ENGINEER'S REVIEW. WELDS PERFORMED ON GALVANIZED STEEL AND ANY AREAS OF DAMAGED GALVANIZING SHALL BE COATED WITH A ZINC-RICH PAINT.
 - PROVIDE CONCRETE / MASONRY COVER AT STEEL BELOW GRADE. STEEL EMBEDDED IN CONCRETE CAST AGAINST EARTH SHALL HAVE 3" MIN COVER. STEEL EMBEDDED IN FORMED CONCRETE OR MASONRY SHALL HAVE 2" MIN COVER.
 - WELDING MATERIALS & PROCEDURES SHALL CONFORM WITH AWS D1.1 AND AWS D1.8 WHERE APPLICABLE.
 - MINIMUM SIZE OF FILLET WELDS: 1/8" FOR MATERIAL 1/8" TO 1/4" THICK, 3/16" FOR MATERIAL OVER 1/4" TO 1/2" THICK, 1/4" FOR MATERIAL OVER 1/2" TO 3/4" THICK, AND 5/16" FOR MATERIAL OVER 3/4" THICK. MATERIAL THICKNESS IS FOR THINNER PART JOINED. SINGLE PASS WELDS MUST BE USED FOR SIZES SHOWN. SIZE OF WELD IS LEG DIMENSION OF FILLET. MINIMUM EFFECTIVE LENGTH OF FILLET WELDS SHALL BE NOT LESS THAN FOUR TIMES THE FILLET SIZE. MINIMUM EFFECTIVE LENGTH OF INTERMITTENT FILLET WELDS SHALL BE 12".
 - WHERE "ALL AROUND" FILLET WELDS ARE INDICATED AT CONCEALED/NON-EXPOSED SQUARE OR RECTANGULAR HSS CONNECTIONS TO PLATES, FILLET WELDS ARE NOT REQUIRED AT RADIISED CORNERS, UNO.
 - BOLTS FOR STEEL-TO-STEEL CONNECTIONS SHALL BE PLACED IN STANDARD SIZE HOLES, TYP, UNO. BOLTS FOR STEEL-TO-CONCRETE/MASONRY CONNECTIONS SHALL BE PLACED IN ANCHOR ROD HOLES, TYP, UNO. USE STANDARD AISI PITCH & GAGE FOR BOLTED CONNECTIONS, UNO.
 - BOLTS AND RODS SHALL BE CUT-THREAD TYPE WITH FULL DIAMETER BODY STYLE MEETING REQUIREMENTS OF ASME B18.2.1. THE BODY DIAMETER SHALL NOT BE LESS THAN THE MINIMUM MAJOR DIAMETER WHEN THREADS ARE CUT. REDUCED DIAMETER BODY STYLE ROLLED THREAD BOLTS OR RODS ARE NOT PERMITTED.
 - BOLT HEADS, NUTS OR "DTTS" OF BOLTED STEEL-TO-STEEL AND STEEL-TO-CONCRETE/ MASONRY CONNECTIONS BEARING ON SLOPING SURFACES SHALL USE A BEVELED HARDENED WASHER IN THE BOLT ASSEMBLY AT THAT SURFACE.



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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
	02/29/2024	DSA SUBMITTAL
	04/30/2024	DSA APPROVAL

MANAGEMENT

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TITLE
TYPICAL NOTES

SHEET
S-011

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ADHESIVE ANCHORS IN CONCRETE

S: 066000 N056A
190816 02

- REFERENCES TO "EPOXY" OR "CHEMICAL" ANCHORS EMBEDDED IN CONCRETE SHALL REFER TO THESE NOTES.
- ACCEPTABLE ADHESIVE PRODUCTS ARE:
 - "HILTI" HIT-RE 500 V3 (ICC ESR-3814)
 - "HILTI" HIT-HY 200 AIR V3 (ICC ESR-4868)
 - "SIMPSON" SET-3G (ICC ESR-4057)
 - "SIMPSON" AT-XP (IAPMO ER-283)
 - "DEWALT" PURE 110+ (ICC ESR-3298)
 - "DEWALT" AC208+ (GALD) (ICC ESR-4427)
- THREADED ROD AND REBAR USED W/ ADHESIVE ANCHORS SHALL MEET THE REQUIREMENTS OF THE EVALUATION AGENCY REPORT.
- EMBEDMENT DEPTHS SHALL BE 8 TIMES THE NOMINAL DIAMETER OF ANCHOR, UNO.
- CONCRETE SHALL MEET THE SPECIFIED DESIGN STRENGTH PRIOR TO INSTALLATION, AND SHALL HAVE A MINIMUM AGE OF 21 DAYS, UNO.
- TEST LOADS SHALL BE AS INDICATED IN DRAWINGS. IF NO TEST LOAD IS SPECIFIED, TEST LOAD SHALL BE 1000 LBS.

SCREW ANCHORS IN CONCRETE

S: 066000 N056A
210218 02

- EMBEDMENT SHALL BE AS INDICATED IN THE TABLE BELOW. TYP UNO. ALL EMBEDMENTS SPECIFIED ARE NOMINAL EMBEDMENT DEPTHS REQUIRED.

"HILTI" KWIK HUS-EZ (KH-EZ) / KWIK HUS-EZ1 (KH-EZ1) INSTALLED IN NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE (F_c = 3000 PSI MIN) (ICC REPORT ESR 3027)

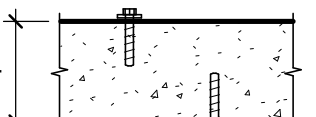
		GENERAL CONCRETE				
ANCHOR DIA		1/4"	3/8"	1/2"	5/8"	3/4"
STD EMBED, Hnom TYP UNO		1 5/8"	1 5/8"	3"	5"	6 1/4"
MIN CONC THICKNESS, T		3 1/4"	3 1/4"	4 3/4"	7"	8 1/4"
MAX INSTALLATION TORQUE (LB-FT)		18	40	45	85	95
TORQUE TEST LOAD (LB-FT)		9	20	23	43	58

"SIMPSON" TITEN HD INSTALLED IN NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE (F_c = 3000 PSI MIN) (ICC REPORT ESR 2713)

		GENERAL CONCRETE				
ANCHOR DIA		1/4"	3/8"	1/2"	5/8"	3/4"
STD EMBED, Hnom TYP UNO		1 5/8"	2 1/2"	3 1/4"	4"	5 1/2"
MIN CONC THICKNESS, T		3 1/4"	4"	5"	6"	8 3/4"
MAX INSTALLATION TORQUE (LB-FT)		24	50	65	100	150
TORQUE TEST LOAD (LB-FT)		12	25	33	50	75

"DEWALT" SCREWBOLT+ INSTALLED IN NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE (F_c = 3000 PSI MIN) (ICC REPORT ESR 3869)

		GENERAL CONCRETE				
ANCHOR DIA		1/4"	3/8"	1/2"	5/8"	3/4"
STD EMBED, Hnom TYP UNO		1 5/8"	2"	3"	4"	4 1/4"
MIN CONC THICKNESS, T		3 1/4"	3 1/2"	5 1/4"	6"	6"
MAX INSTALLATION TORQUE (LB-FT)		19	25	45	60	70
TORQUE TEST LOAD (LB-FT)		9	12	25	30	35



GENERAL CONC

EXPANSION ANCHORS IN CONCRETE

S: 066000 N056A
210218 02

- EMBEDMENT SHALL BE AS INDICATED IN THE TABLE BELOW. TYP UNO. ALL EMBEDMENTS SPECIFIED ARE NOMINAL EMBEDMENT DEPTHS. REFER TO EVALUATION AGENCY REPORT FOR EFFECTIVE EMBEDMENTS.

"HILTI" KWIK BOLT-TZ2 INSTALLED IN NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE (F_c = 3000 PSI MIN) (ICC REPORT ESR 4266)

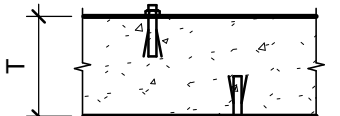
		GENERAL CONCRETE				
ANCHOR DIA		1/4"	3/8"	1/2"	5/8"	3/4"
STD EMBED, Hnom TYP UNO		1 3/4"	2 1/2"	3 3/4"	4 1/2"	5 1/2"
MIN CONC THICKNESS, T		3 1/4"	4"	5 1/2"	6"	8"
CARBON STEEL TORQUE TEST LOAD (LB-FT)		4	30	50	40	110
STAINLESS STEEL TORQUE TEST LOAD (LB-FT)		6	30	40	60	125

"SIMPSON" STRONG-BOLT 2 INSTALLED IN NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE (F_c = 3000 PSI MIN) (ICC REPORT ESR 3037)

		GENERAL CONCRETE				
ANCHOR DIA		1/4"	3/8"	1/2"	5/8"	3/4"
STD EMBED, Hnom TYP UNO		1 3/4"	1 7/8"	3 7/8"	3 3/8"	4 1/8"
MIN CONC THICKNESS, T		3 1/4"	3 1/4"	6"	5 1/2"	6 3/4"
TORQUE TEST LOAD (LB-FT)		4	30	60	90	150

"DEWALT" POWER-STUD+ SD2 INSTALLED IN NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE (F_c = 3000 PSI MIN) (ICC REPORT ESR 2502)

		GENERAL CONCRETE				
ANCHOR DIA		3/8"	1/2"	5/8"	3/4"	
STD EMBED, Hnom TYP UNO		2 3/8"	3 3/4"	4 7/8"	5 3/4"	
MIN CONC THICKNESS, T		4"	5 3/4"	6 1/2"	10"	
TORQUE TEST LOAD (LB-FT)		20	40	60	110	



GENERAL CONC

POST INSTALLED ANCHORS

S: 066000 N056A
170123 02

THESE NOTES SHALL APPLY TO THE INSTALLATION, INSPECTION, AND TESTING OF EXPANSION, ADHESIVE, AND SCREW ANCHORS. USE SPECIFIC PRODUCTS WHERE INDICATED. IF A SPECIFIC PRODUCT / MANUFACTURER IS NOT NOTED, SELECT ANCHOR FROM THE PROVIDED TABLES BASED ON ANCHOR TYPE, DIAMETER AND BASE MATERIAL. POST-INSTALLED ANCHORS / REINFORCING ARE NOT PERMITTED TO REPLACE CAST-IN ANCHORS/REINFORCING UNLESS SPECIFICALLY NOTED.

- INSTALLATION**
- INSTALL PER REQUIREMENTS OF THE EVALUATION AGENCY REPORT & MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS FOR THE SPECIFIC ANCHOR.
 - INSTALLATION OF ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS RESISTING SUSTAINED TENSION LOADS (AS SPECIFICALLY NOTED ON DETAILS) SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE A WRITTEN TEST AND PERFORMANCE TEST IN ACCORDANCE WITH THE ANCHOR'S ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT. CERTIFICATION PROGRAM SHALL BE SUBMITTED TO STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
 - ANCHOR INSTALLATION SHALL MEET THE MINIMUM EMBEDMENT, EDGE DISTANCE, SPACING, AND BASE MATERIAL THICKNESS CRITERIA ESTABLISHED BY THE RELEVANT EVALUATION AGENCY REPORT & MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
 - ANCHOR INSTALLATION & CURE TEMPERATURES SHALL FOLLOW EVALUATION AGENCY REPORT & MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
 - WHEN INSTALLING ANCHORS IN CONCRETE OR MASONRY, DO NOT DAMAGE REINFORCING (REBAR AND/OR PRE/TENSIONED STRANDS). LOCATE ALL REINFORCING AT AFFECTED AREAS USING NON-DESTRUCTIVE MEANS PRIOR TO INSTALLING ANCHORS. MAINTAIN A MINIMUM CLEARANCE OF TWO INCHES BETWEEN THE REINFORCEMENT AND THE ANCHOR.

INSPECTION

- PROVIDE SPECIAL INSPECTION AS REQUIRED BY THE EVALUATION AGENCY REPORT AND ENFORCEMENT AGENCY, WHERE EVALUATION AGENCY REPORT PERMITS EITHER PERIODIC OR CONTINUOUS INSPECTION, USE CONTINUOUS.

- ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS RESISTING SUSTAINED TENSION LOADS (AS SPECIFICALLY NOTED ON DETAILS) SHALL BE CONTINUOUSLY INSPECTED BY AN INSPECTOR SPECIALLY APPROVED FOR THAT PURPOSE BY THE ENFORCEMENT AGENCY.

TESTING

- TEST ANCHORS IN ACCORDANCE WITH THE EVALUATION AGENCY REPORT AND ENFORCEMENT AGENCY REQUIREMENTS FOR THE SPECIFIC ANCHOR AND IN ACCORDANCE WITH THE FREQUENCIES AND TEST METHODS LISTED BELOW.

- TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY AND STRUCTURAL ENGINEER.

- REACTION LOADS FROM TEST FIXTURE(S) MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED BY THE FIXTURE(S) FROM WITHDRAWING.

- TEST METHOD SHALL BE AS NOTED FOR SPECIFIC ANCHOR TYPES AND THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
 - HYDRAULIC RAM METHOD (TENSION TESTING):
 - THE ANCHOR SHALL MAINTAIN THE TEST LOAD FOR 15 SECONDS AND SHALL HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE.
 - TORQUE WRENCH METHOD (TORQUE TESTING):
 - THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS:
 - ONE-HALF (1/2) TURN OF THE NUT, TYP UNO.
 - ONE-QUARTER (1/4) TURN OF THE NUT FOR THE 3/8" SLEEVE ANCHOR ONLY.
 - ONE-QUARTER (1/4) TURN OF THE SCREW AFTER INITIAL SEATING OF THE SCREW HEAD FOR SCREW ANCHORS.

- TESTING FREQUENCIES SHALL BE AS INDICATED IN THE TABLE BELOW. WHEN MULTIPLE ANCHORS ARE USED IN A SINGLE GROUP OR CONNECTION, THE PERCENT OF ANCHORS TESTED AT EACH LOCATION SHALL BE AS INDICATED BELOW.

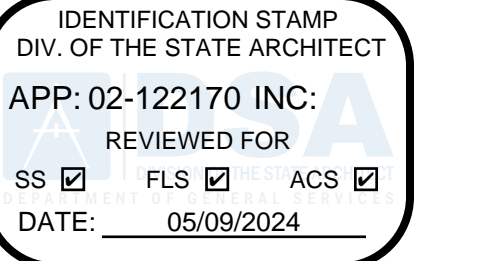
- IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED SHALL BE TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS, THEN THE INITIAL TESTING FREQUENCY SHALL BE RESUMED.

TESTING FREQUENCY	
APPLICATION	PERCENT OF ALL ANCHORS
SILL PLATE BOLTING AND REBAR AT SLAB ON GRADE, UNO	10 PERCENT
STRUCTURAL EXCLUDING SILL PLATE BOLTING	100 PERCENT
NON-STRUCTURAL INCLUDING EQUIPMENT ANCHORAGE	50 PERCENT

POWER ACTUATED FASTENERS

S: 066000 N056A
190225 02

- POWER ACTUATED FASTENERS SHALL BE "HILTI" X-U (ICC ESR 2269), "SIMPSON" PDPA (ICC ESR 2138), OR "DEWALT" POWER DRIVEN FASTENERS (ICC ESR 2024), TYP UNO.
- INSTALLATION OF FASTENERS SHALL BE IN ACCORDANCE WITH THE EVALUATION AGENCY REPORT. INSTALL FASTENERS WITH SUFFICIENT EDGE DISTANCE AND SPACING TO ACHIEVE FULL CAPACITY, UNO.
- FASTENERS TO CONCRETE OR MASONRY SHALL HAVE 1" MIN EMBEDMENT (1 1/4" MIN FOR "SIMPSON" PDPA IN MASONRY), TYP UNO.
- FASTENERS TO STRUCTURAL STEEL SHALL HAVE MIN EMBEDMENT TO STEEL PER MANUFACTURER, TYP UNO.
- FASTENERS MAY NOT BE USED FOR TENSION LOADS EXCEPT FOR THE FOLLOW CONDITIONS:
 - VERTICAL SUSPENSION WIRES FOR ACOUSTICAL TILE OR LAY-IN CEILINGS
 - VERTICAL SUPPORTS OF MECH DUCTS, CONDUITS, ETC WHERE THE SERVICE LOAD ON EACH ANCHOR DOES NOT EXCEED 90 LBS FOR FASTENERS IN CONCRETE OR 250 LBS FOR FASTENERS IN STRUCTURAL STEEL.
 - FASTENERS ARE NOT PERMITTED AT SEISMIC BRACING ATTACHMENTS.
- WHEN INSTALLING FASTENERS IN PRE/POST-TENSIONED CONCRETE DO NOT DAMAGE STRANDS. LOCATE STRANDS AT AFFECTED AREAS USING NON-DESTRUCTIVE MEANS PRIOR TO INSTALLING FASTENERS. MAINTAIN A MINIMUM CLEARANCE OF 2" BETWEEN THE STRANDS AND THE FASTENERS.
- THE OPERATOR, TOOL, & FASTENER SHALL BE PRE-QUALIFIED BY THE PROJECT INSPECTOR WHO SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. THEREAFTER, RANDOM TESTS UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE TO APPROXIMATELY 1 IN 10 PINS. IF ANY PIN FAILS, TEST ALL PINS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL 20 CONSECUTIVE PASS, THEN RESUME THE INITIAL TESTING FREQUENCY.
- TENSION TEST LOAD SHALL BE 1 1/4 TIMES THE NOMINAL TENSION CAPACITY OR 2 TIMES THE ALLOWABLE TENSION CAPACITY LISTED IN THE EVALUATION AGENCY REPORT.
- TEST LOAD SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN.
- TESTING IS NOT REQUIRED FOR STEEL-TO-STEEL CONNECTIONS OR FASTENERS USED AT SILLS OF INTERIOR NON-STRUCTURAL WALLS PROVIDED THERE ARE A MINIMUM OF (3) FASTENERS PER SEGMENT OF SILL.
- A REPORT OF TEST RESULTS SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY AND STRUCTURAL ENGINEER.



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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
	02/29/2024	DSA SUBMITTAL
	04/30/2024	DSA APPROVAL

MANAGEMENT	
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TYPICAL NOTES

SHEET
S-012

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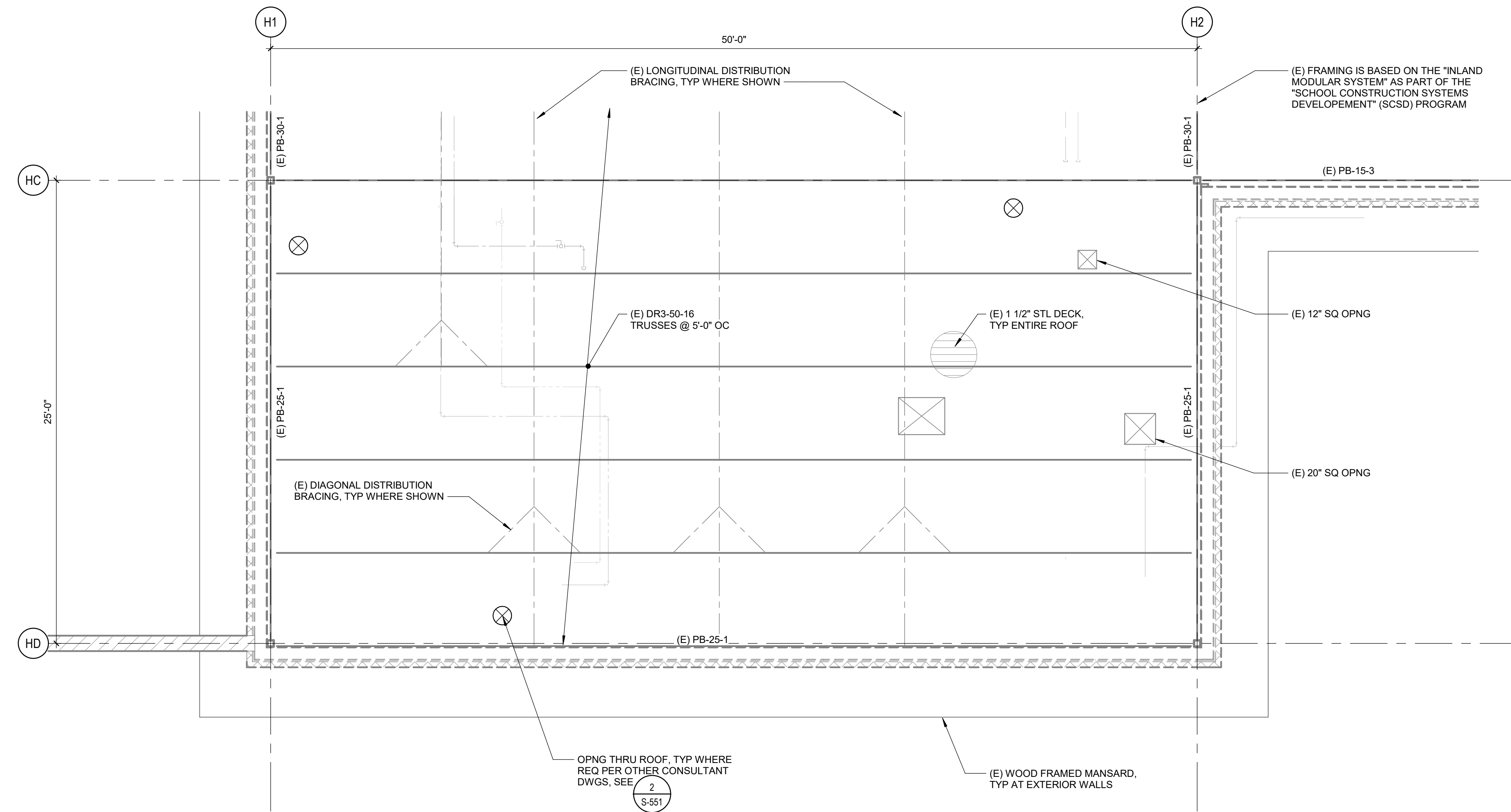
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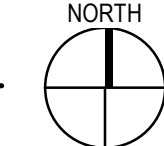
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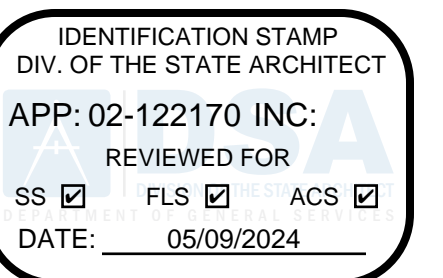
1 PARTIAL PLAN - ROOF FRAMING
SCALE 1/4" = 1'-0"



NOTES

- SEE S-000 SERIES SHEETS FOR GENERAL NOTES & S-500 SERIES SHEETS FOR TYPICAL DETAILS.
- DIMENSIONS ARE TO FOS OR CENTERLINE OF COLUMNS/POSTS, UNO. SEE SECTIONS & DETAILS FOR FOC LOCATIONS RELATIVE TO FOS.
- SEE ARCH & OTHER CONSULTANT DWGS FOR ROOF PENETRATIONS NOT SHOWN. COMPLY WITH TYPICAL DETAILS.

170828_02



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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

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LEGEND

- (E) ELEMENTS SHOWN FADED - LINETYPE AND PATTERN/HATCHING AS NOTED FOR NEW CONSTRUCTION
- STRUCTURAL WALL
- STRUCTURAL WALL BELOW
- STL DECK TYPE & SPAN DIRECTION
- COLUMN WITH CALLOUT
- BEAM SIZE (e.g., W12x40)

230309_01

TITLE
PARTIAL PLAN - ROOF FRAMING

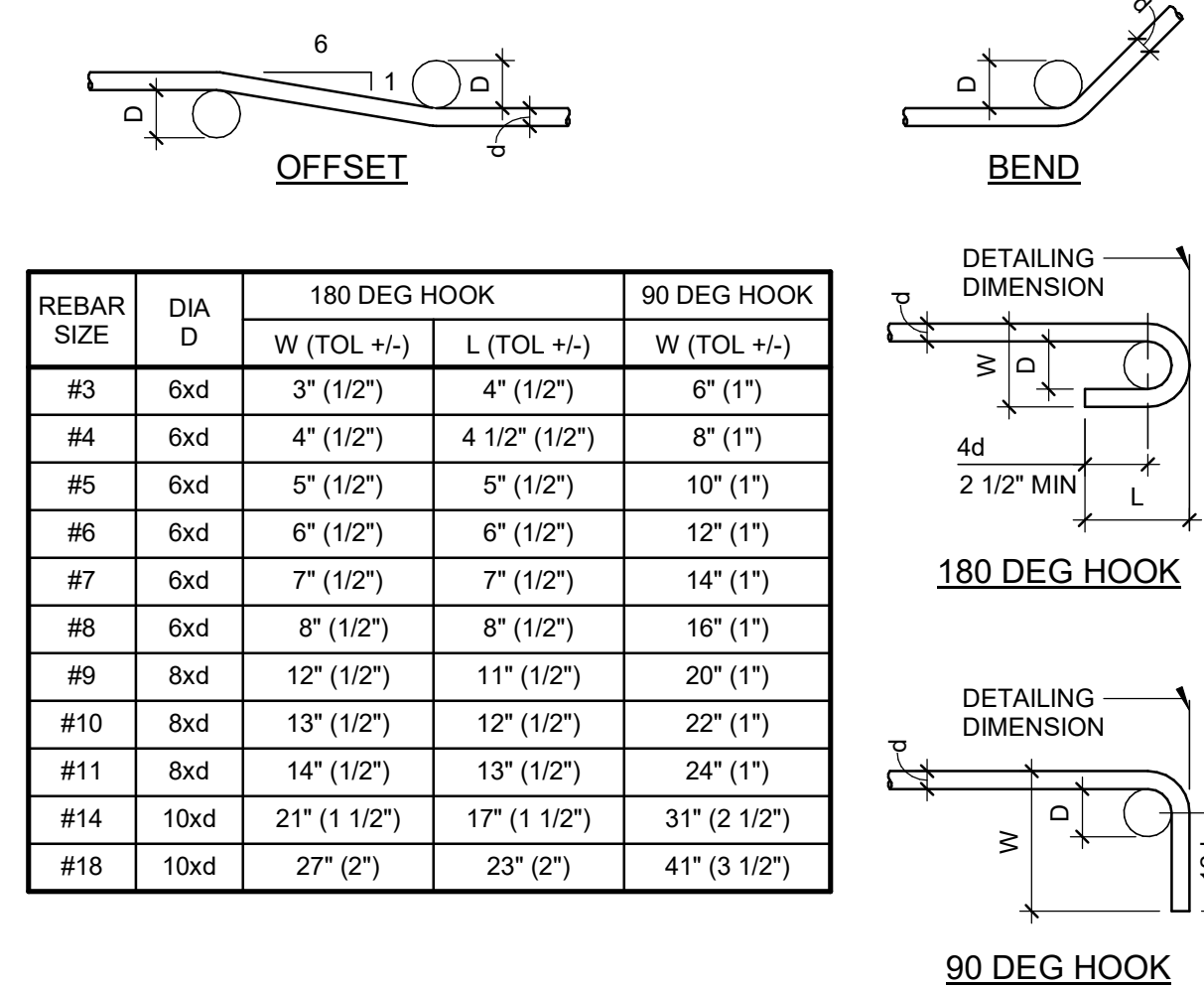
SHEET
S-132

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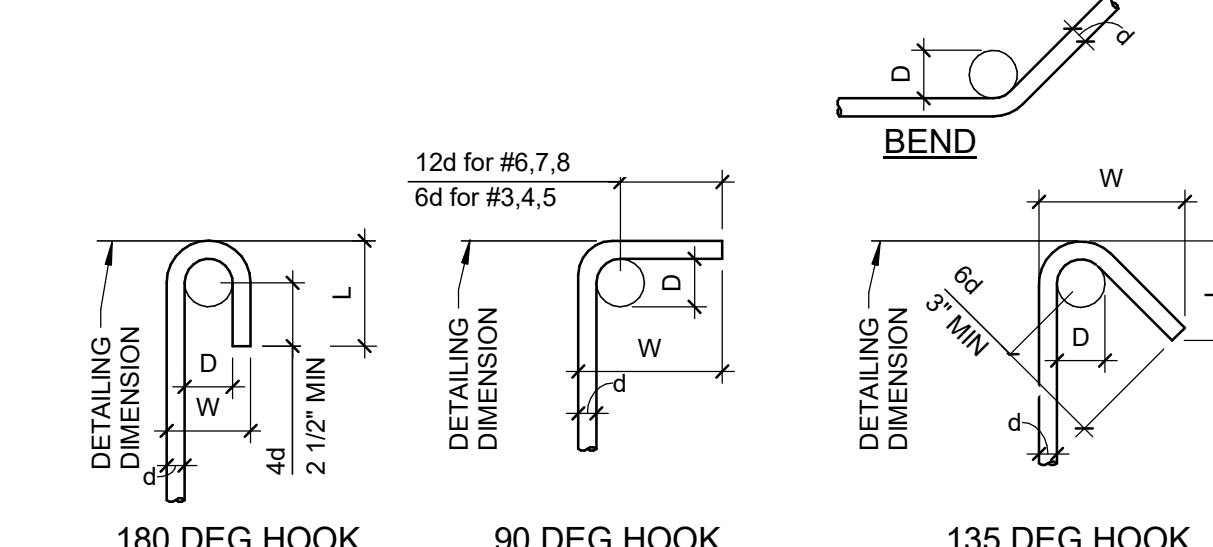


NOTES:
1. D = MINIMUM FINISHED INSIDE BEND DIA, d = NOMINAL REBAR DIAMETER
2. TOL = TOLERANCE (PER ACI 117)

1 TYP REBAR BENDS AND HOOKS

SCALE: NTS S-032000_T001A 140127

REBAR SIZE	DIA D	180 DEG HOOK		90 DEG HOOK	135 DEG HOOK	
		W (TOL +/-)	L (TOL +/-)	W (TOL +/-)	W (TOL +/-)	L (TOL +/-)
#3	4xd	2 1/4" (1/2")	3 3/4" (1/2")	3 1/2" (1")	4" (1/2")	3" (1/2")
#4	4xd	3" (1/2")	4" (1/2")	4 1/2" (1")	5" (1/2")	3" (1/2")
#5	4xd	3 3/4" (1/2")	4 1/2" (1/2")	5 3/4" (1")	6" (1/2")	4" (1/2")
#6	6xd	6" (1/2")	6" (1/2")	12" (1")	9" (1/2")	5 1/4" (1/2")
#7	6xd	7" (1/2")	7" (1/2")	14" (1")	10" (1/2")	6" (1/2")
#8	6xd	8" (1/2")	8" (1/2")	16" (1")	11" (1/2")	7" (1/2")



NOTES:
1. D = MINIMUM FINISHED INSIDE BEND DIA, d = NOMINAL REBAR DIAMETER
2. TOL = TOLERANCE (PER ACI 117)

2 TYP REBAR HOOP, STIRRUP, TIE HOOKS & BENDS

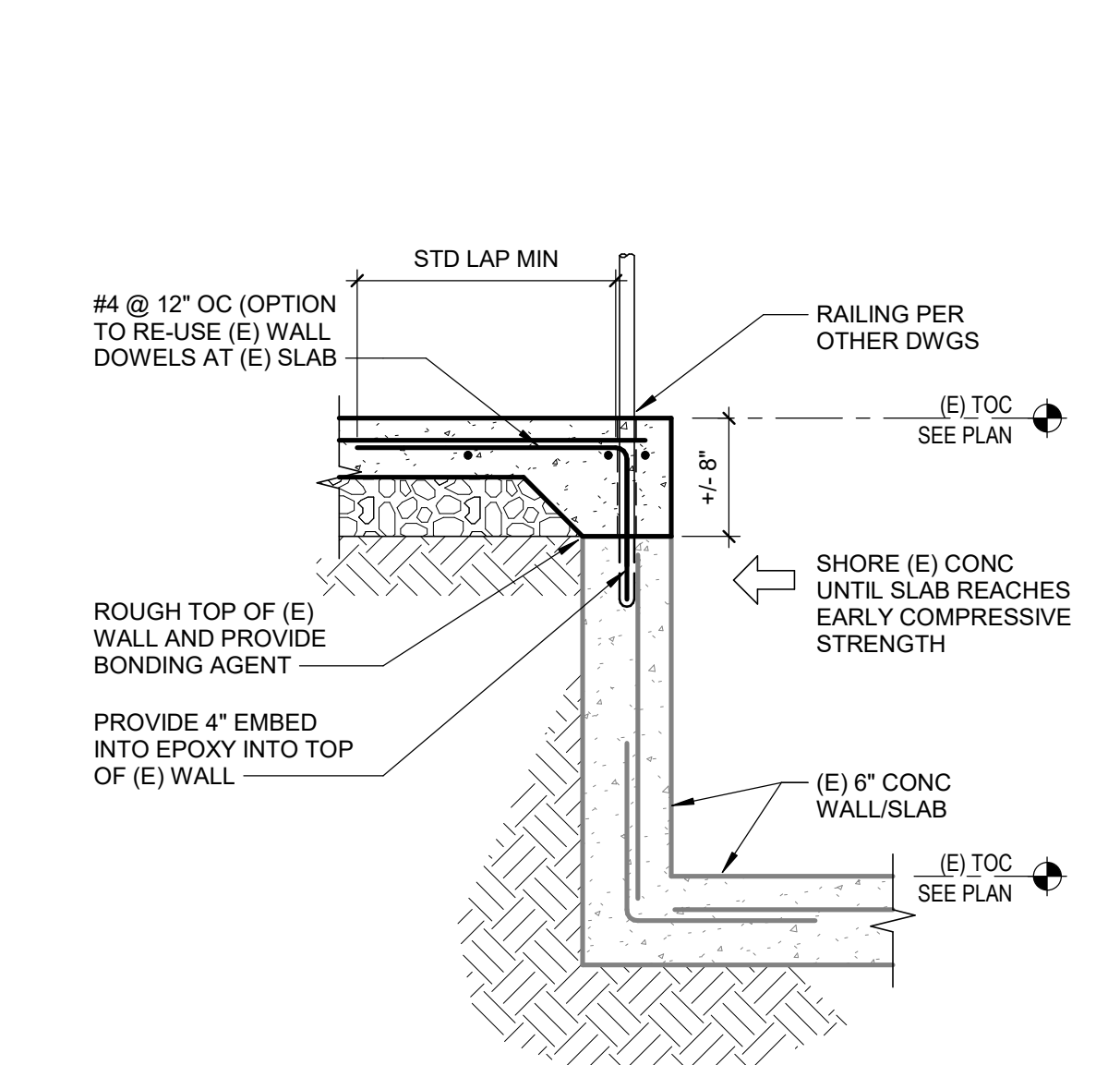
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Fc (psi)	#3	#4	#5	#6	#7	#8	#9	#10	#11
TOP	28	38	47	56	81	93	105	118	131
BOT	22	29	36	43	63	72	81	91	101

NOTES:
1. ALL LAP SPLICES SHALL BE FULL CONTACT SPLICES, UNO.
2. ADJACENT REINFORCING BEING LAP SPICED MUST MEET ONE OF THE FOLLOWING CONDITIONS:
A. CASE 1: THE CLEAR SPACING OF THE BARS IS NOT LESS THAN ONE BAR DIAMETER, CLEAR COVER IS NOT LESS THAN ONE BAR DIAMETER, AND STIRRUPS OR TIES THROUGHOUT THE SPLICE LENGTH.
B. CASE 2: THE CLEAR SPACING OF THE BARS IS NOT LESS THAN TWO BAR DIAMETERS AND THE CLEAR COVER IS NOT LESS THAN ONE BAR DIAMETER.
C. FOR ALL OTHER CASES, MULTIPLY THE SPLICES SHOWN BY 1.5.
3. THE ABOVE VALUES ARE FOR UNCOATED REINFORCEMENT, GRADE 60 REBAR, CLASS B.
4. TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF NEW CONCRETE PLACED BELOW THE BAR. BOTTOM BARS ARE ALL OTHER HORIZONTAL OR VERTICAL REINFORCEMENT.

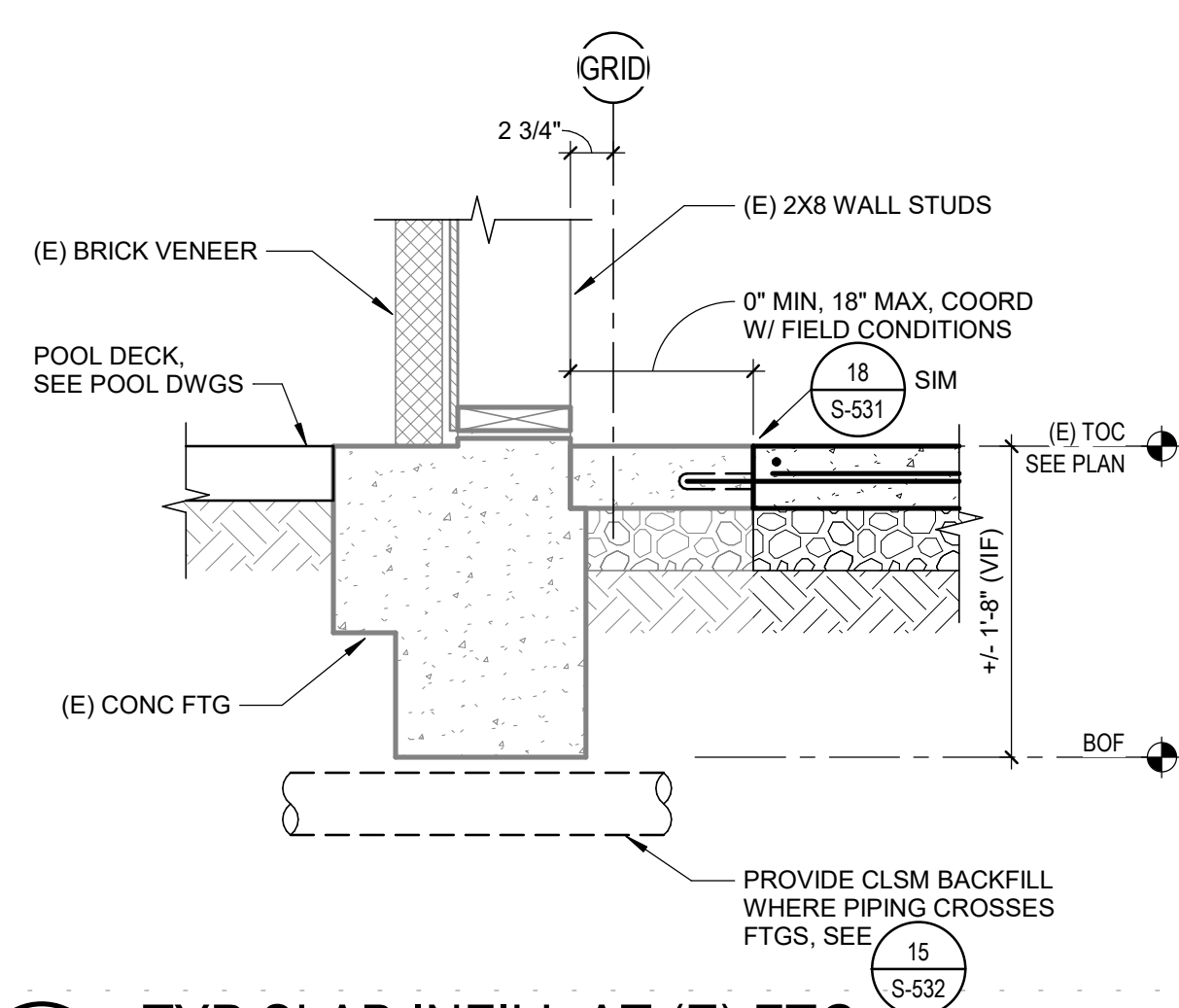
3 TYP CONCRETE REBAR LAP SPLICE LENGTHS (INCHES)

SCALE: NTS S-032000_T003A 190526_Q2



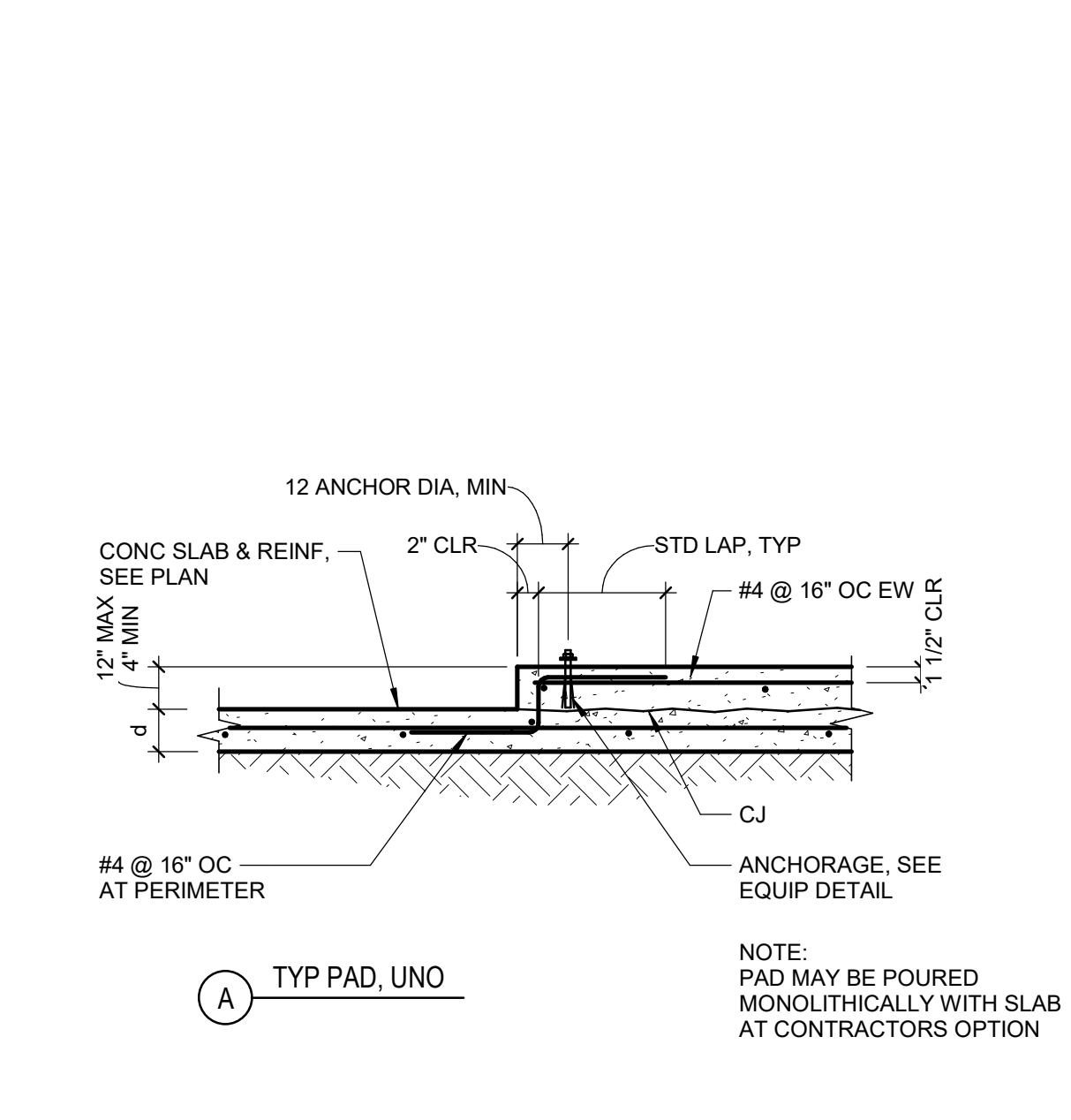
13 TYP SLAB INFILL AT (E) CONC PIT

SCALE: NTS 1" = 1'-0" 01



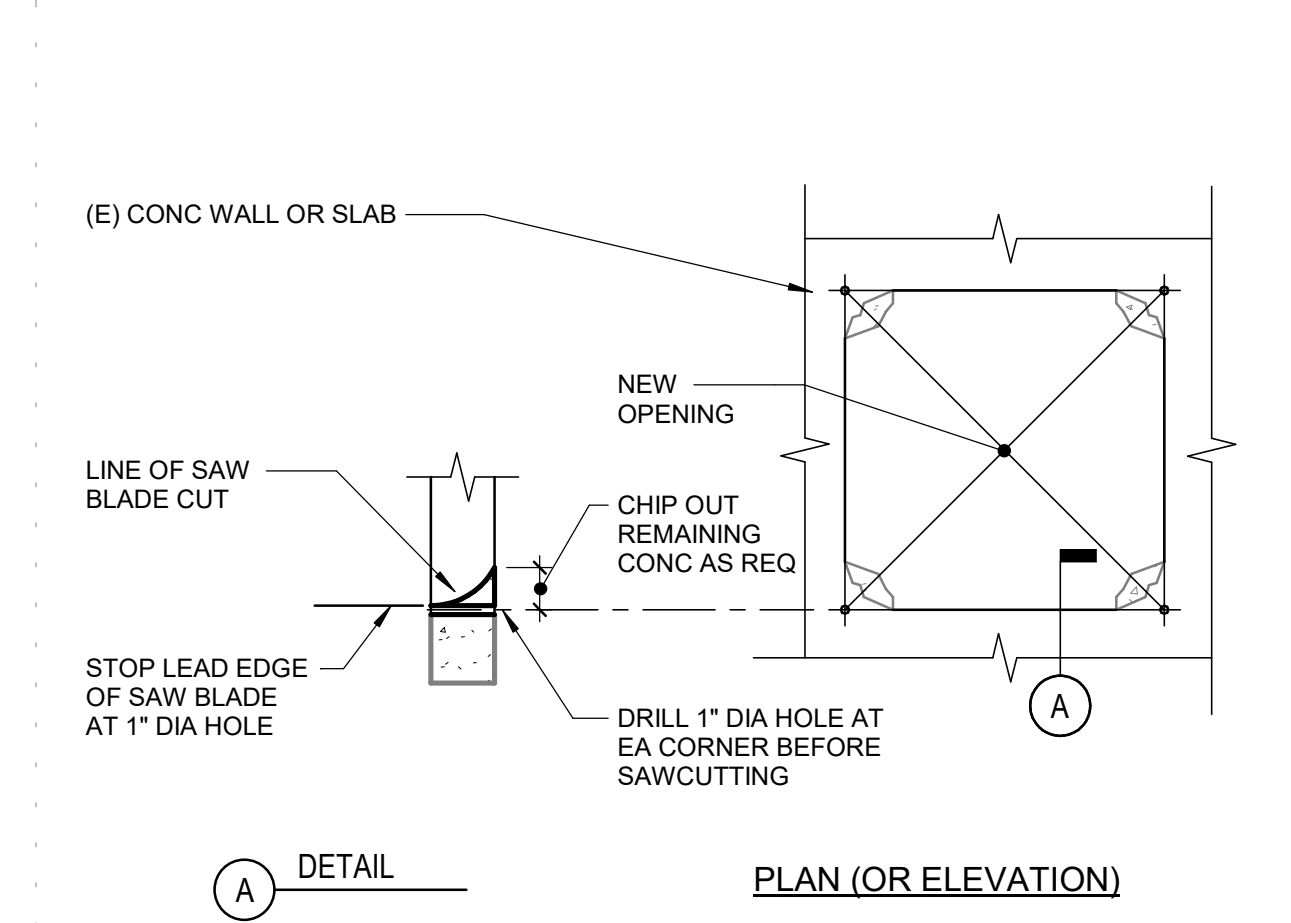
14 TYP SLAB INFILL AT (E) FTG

SCALE: NTS 1" = 1'-0" 01



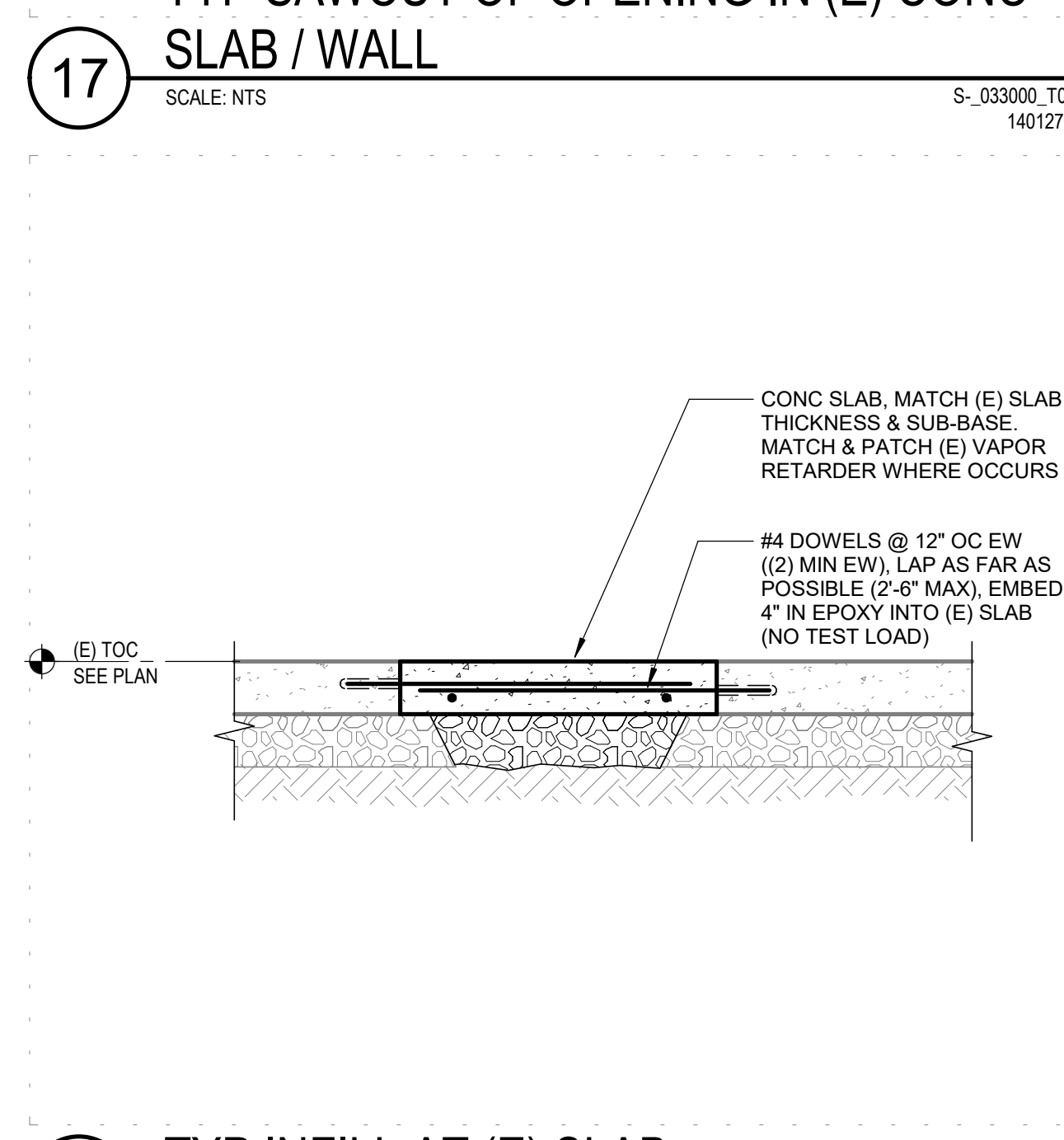
16 TYP HOUSEKEEPING PADS

SCALE: NTS S-033000_T002A 140127



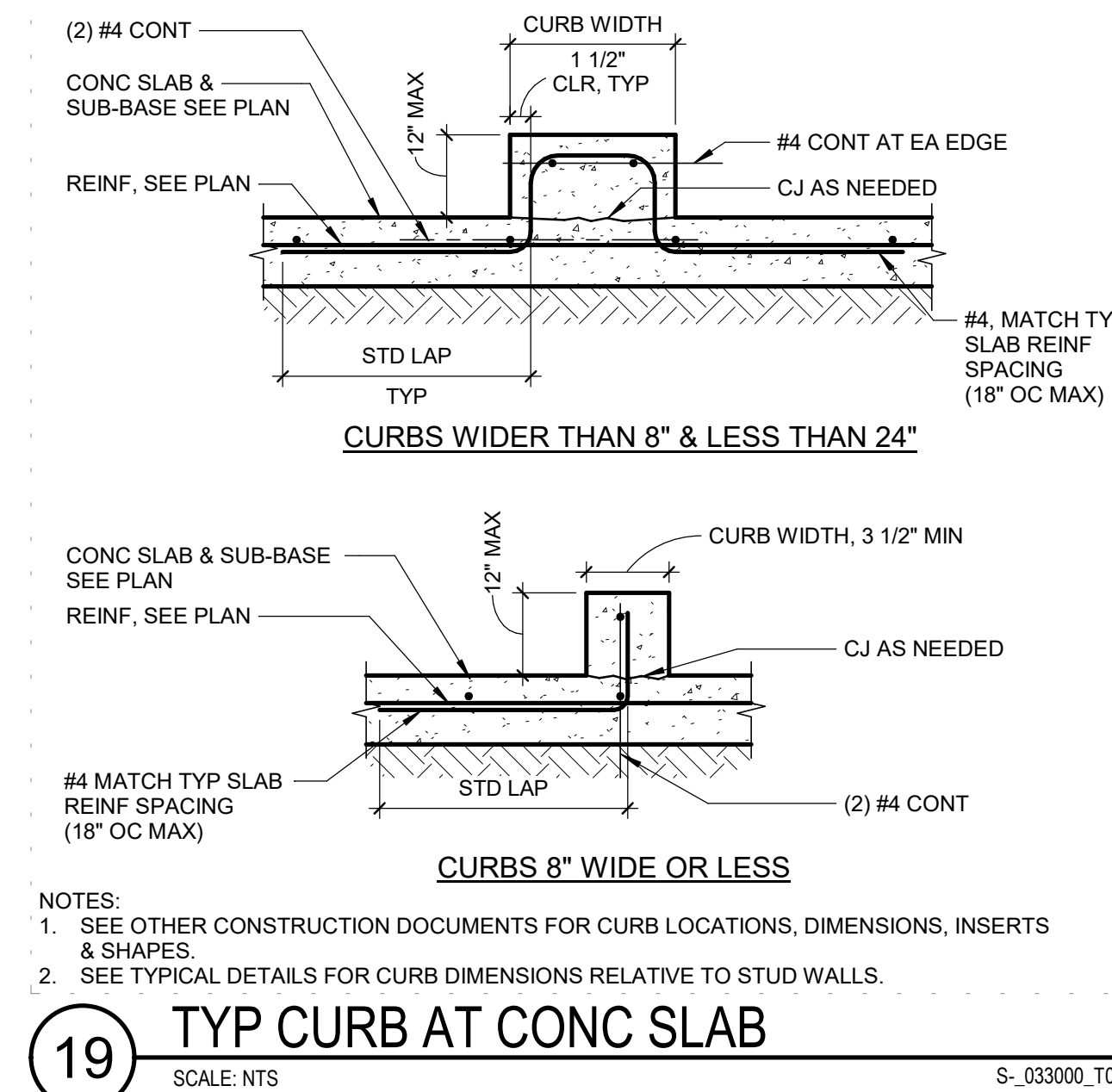
17 TYP SAWCUT OF OPENING IN (E) CONC SLAB / WALL

SCALE: NTS S-033000_T005A 140127_Q2



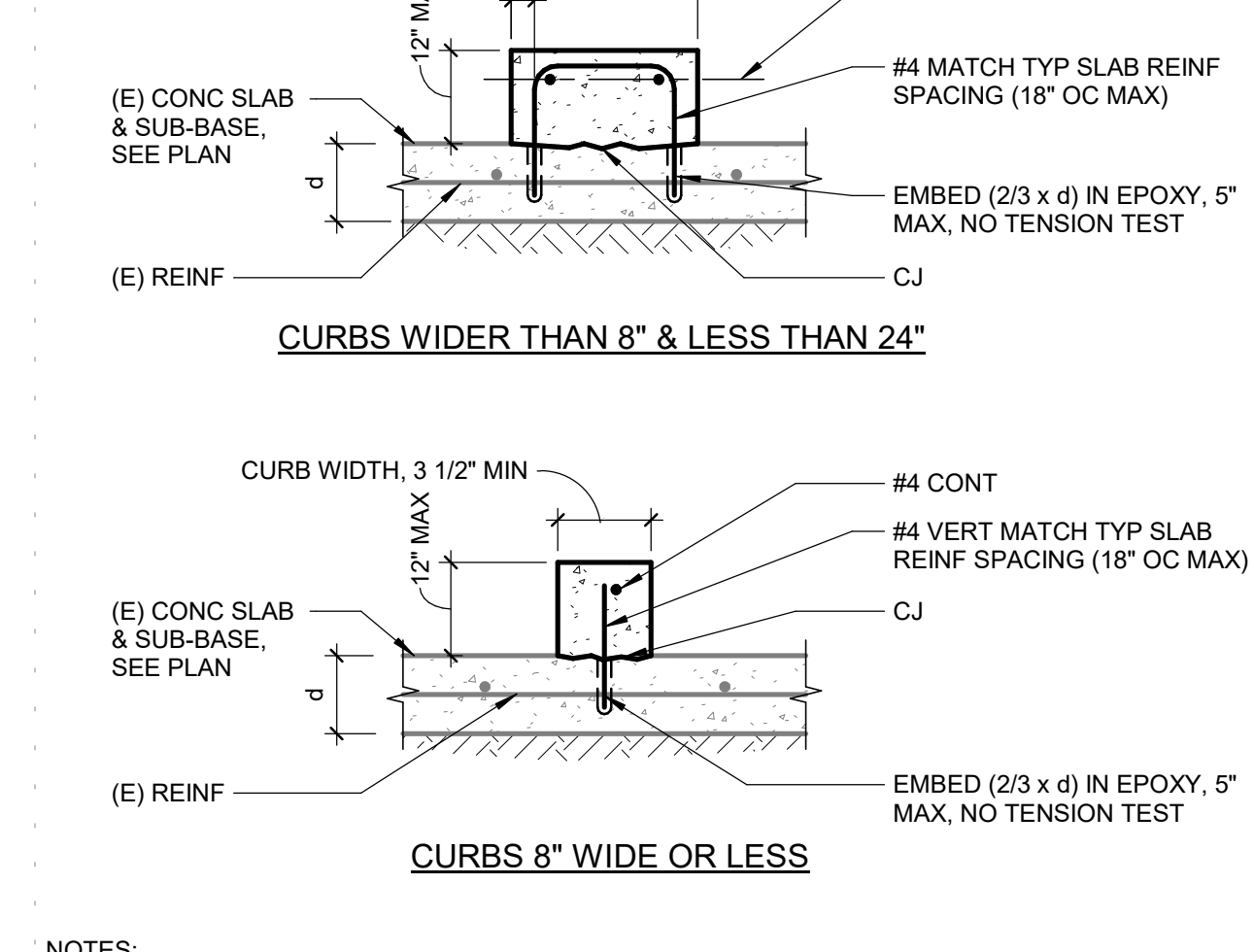
18 TYP INFILL AT (E) SLAB

SCALE: NTS S-033000_T003A 140728



19 TYP CURB AT CONC SLAB

SCALE: NTS S-033000_T007A 150107_Q2



20 TYP CURB AT (E) CONC SLAB

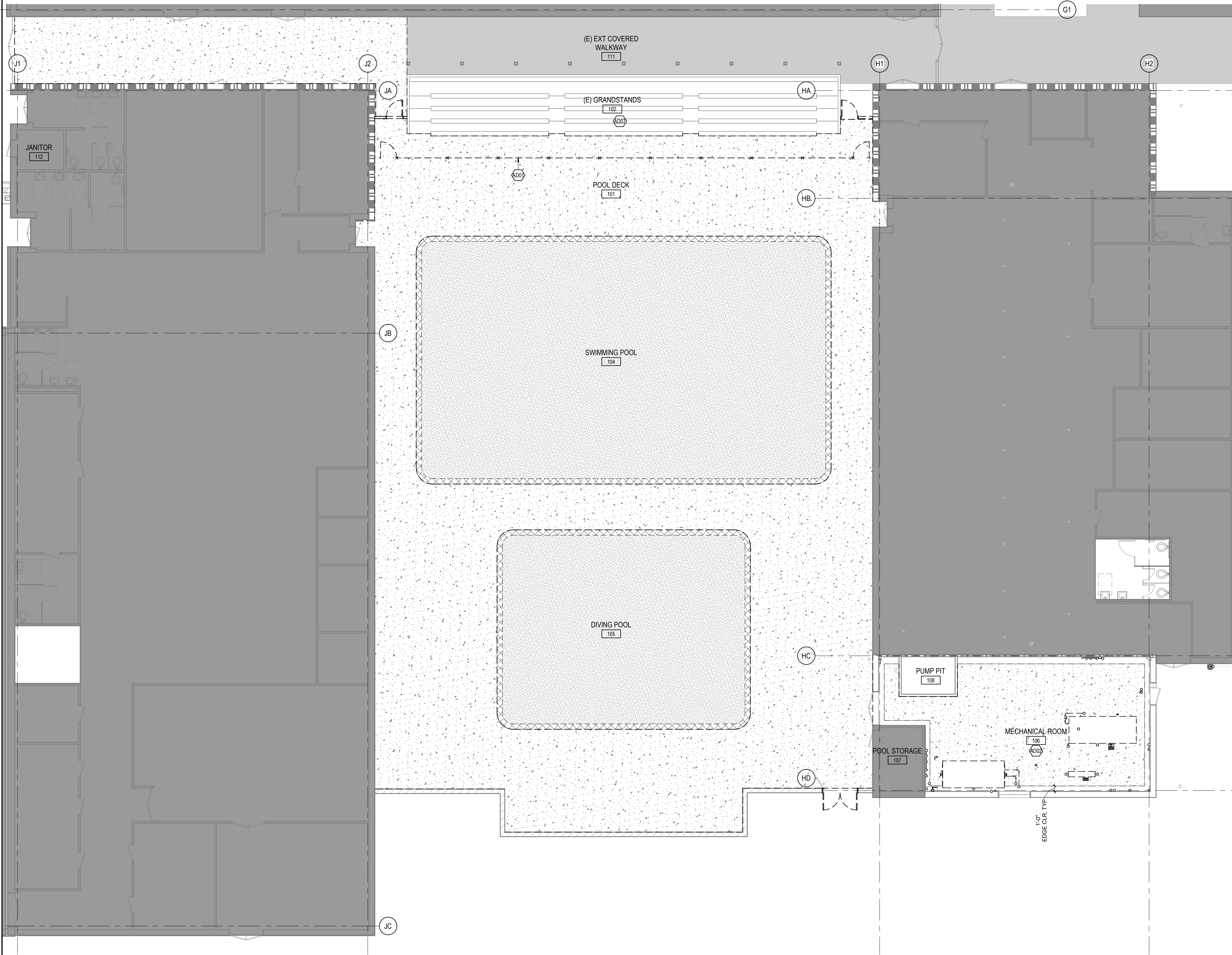
SCALE: NTS S-033000_T007A 150107_Q2

0 1/4" = 1'-0"

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4/30/2024 7:59:00 AM



1 DEMOLITION FLOOR PLAN - LEVEL 1 - OVERALL
SCALE 1/8" = 1'-0"

GENERAL NOTES

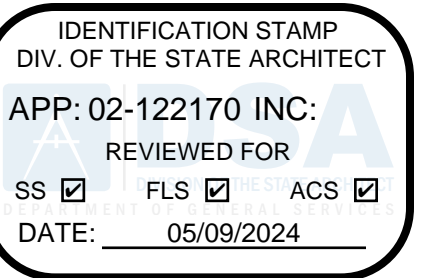
- REFER TO DOOR AND FRAME SCHEDULES FOR REFERENCED FRAMED OPENINGS AND REQUIRED DEMOLITION OF OPENINGS IN EXISTING CONCRETE WALLS TO ACCOMMODATE FRAMED OPENINGS.
- COORDINATE WITH OWNER ALL ITEMS NOTED TO BE TURNED OVER TO THE DISTRICT.
- DEMOLITION KEYNOTES ARE FOR REFERENCE AS AN OVERALL LIST. NOT ALL DEMOLITION NOTES LISTED ARE APPLICABLE TO EACH SHEET. REFER TO SPECIFIC DEMOLITION PLANS FOR NOTES THAT APPLY.
- IN AREAS OF DEMOLISHED FLOOR AND WALL FINISHES, CONTRACTOR SHALL BE RESPONSIBLE TO FULLY REMOVE ALL EXISTING CONSTRUCTION MATERIAL INCLUSIVE OF EXISTING ADHESIVES AND/OR MECHANICAL FASTENERS AND CERAMIC TILE MORTAR BED. CONTRACTOR SHALL PREP ALL EXISTING SURFACES AS REQUIRED TO ACCOMMODATE FINISHES (INCLUDING MECHANICAL BRADING OF EXISTING SURFACES AND FILLING OF HOLES, WITH APPROPRIATE MATERIALS, AS NECESSARY).
- IN AREAS OF DEMOLISHED PLUMBING FIXTURES, ALL REMAINING DRAIN PIPES, TUBING, ETC. SHALL BE ABANDONED AND CAPPED OFF IN SUCH A WAY THAT IT SHALL NOT INTRUDE ON ANY CONSTRUCTION. PATCH FINISHES AS NECESSARY.
- REFER TO SWIMMING DRAWINGS FOR EXTENT OF DEMOLITION REQUIRED FOR INSTALLATION OF SWIMMING POOL WORK.
- REFER TO MECHANICAL/PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK REQUIRED TO ACCOMMODATE CONSTRUCTION, INCLUDING FILTERING OF VENTS, DIFFUSERS, AND CONDUITS WITH UNISTRATS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BARRIERS AND/OR ACCESS ENCLOSURES TO PROVIDE A MEANS OF CONTROLLED ACCESS TO THE FACILITY FUNCTIONS DURING SEQUENCING OF CONSTRUCTION. VERIFY ALL BARRIER LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
- CONTRACTOR SHALL COORDINATE AND MAINTAIN FIRE AND LIFE SAFETY REQUIREMENTS PER CFC CHAPTER 14 DURING RENOVATIONS OF EXISTING FACILITY.
- MEANS OF EGRESS FOR EXISTING BUILDINGS SHALL COMPLY WITH CFC SECTION 1027 AND MAINTENANCE OF MEANS OF EGRESS SHALL COMPLY WITH CFC SECTION 1028.
- (E) FLOOR EQUIPMENT ANCHORAGE TO BE REMOVED AND PATCHED.

DEMOLITION FLOOR PLAN LEGEND

- DASHED LINE INDICATES ITEM TO BE DEMOLISHED
- - - - - (E) WALL TO BE REMOVED TO EXTENT SHOWN
- ===== (E) WALL TO REMAIN
- ⌋ (E) DOOR TO BE REMOVED. SALVAGE DOOR HARDWARE COMPONENTS
- ⌋ (E) DOOR TO REMAIN
- ▤ (E) POOL DECK/CONC SLAB ON GRADE TO BE REMOVED. FOR ADDITIONAL INFO, SEE CIVIL AND POOL DWGS.
- ▥ (E) POOL FINISHES TO BE REMOVED. (E) CONC SHELL TO REMAIN. SAWCUT WHERE REQUIRED FOR NEW CONNECTIONS. SEE POOL DWGS.
- ▧ (E) POOL COPING TO BE REMOVED. SEE POOL DWGS.
- (E) BUILDING NOT IN SCOPE
- (E) COVERED WALKWAY NOT IN SCOPE

○ SHEET KEYNOTES

- AD01 DEMO (E) CHAIN-LINK FENCING ASSEMBLY.
- AD02 DEMO (E) MECHANICAL EQ. SEE POOL, MECH, AND ELEC DWGS.
- AD07 REMOVE (E) FINISH COAT ON (E) GRANDSTAND ASSEMBLY, SUPPORTS, AND METAL ANGLE. EMBED, CLEAN AND PATCH AND REPAIR (E) CONC STEPS.



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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	
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CLIENT PROJECT NO.:	
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TITLE
**DEMOLITION FLOOR
PLAN - LEVEL 1**

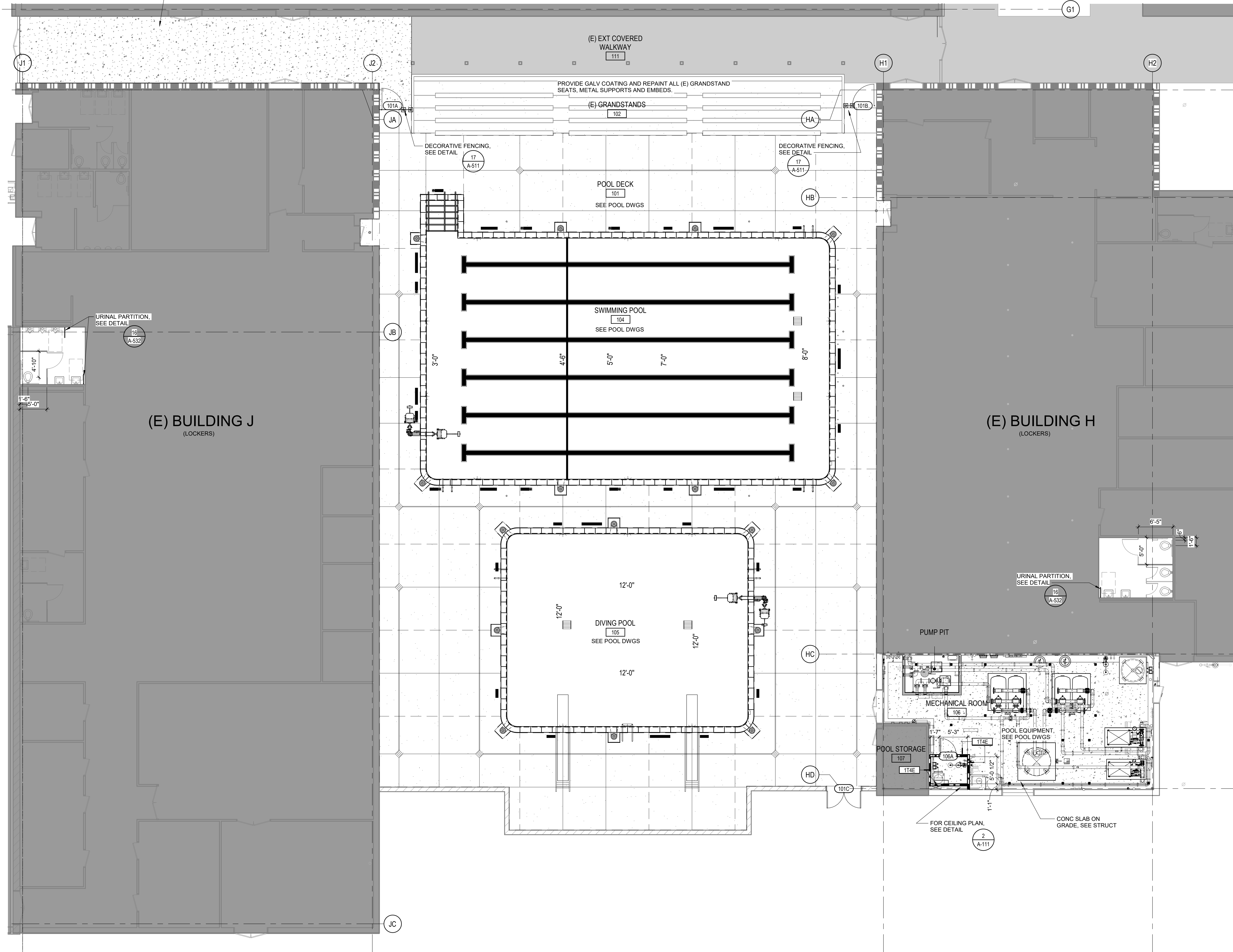
SHEET
AD111

0 1/4" = 1'

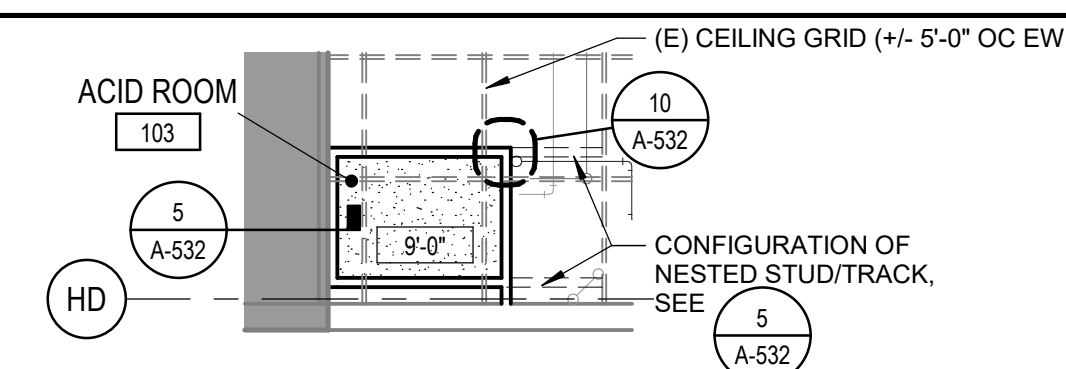
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4/30/2017 10:04 AM



1 FLOOR PLAN - POOL
SCALE 1/8" = 1'-0"



2 CEILING PLAN - ACID ROOM
SCALE 1/8" = 1'-0"

GENERAL NOTES

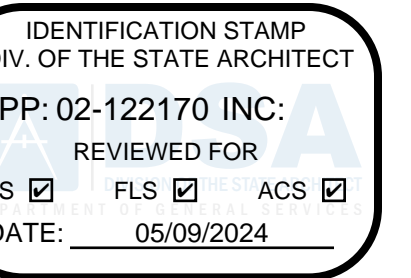
1. ALL WALL DIMENSIONS ARE MEASURED FROM FACE OF STUDS OR CENTERLINE OF COLUMN GRID UNLESS OTHERWISE NOTED. EXCEPTION: CLEAR DIMENSIONS AT DOOR, PLUMBING FIXTURES AND 5'-0" DIA FLOOR CLEARANCE CIRCLE ARE TO FACE OF FINISH, TYP.
2. DIMENSIONS NOTED "CLEAR" OR "CLR" ARE TO FACE OF FINISH.
3. ACCESS TO EXISTING EXIT WAYS TO REMAIN OPEN AT ALL TIMES DURING CONSTRUCTION.
4. FOR SYMBOL LEGEND SEE SHEET G-001
5. PATCH AND REPAIR EXISTING PORTIONS OF BUILDING TO REMAIN THAT ARE DAMAGED DURING DEMOLITION. DOCUMENT ALL EXISTING DAMAGED CONDITIONS PRIOR TO DEMOLITION.
6. PROTECT AS NECESSARY ALL EXISTING CONSTRUCTION TO REMAIN AND IN-PLACE CONSTRUCTION DURING CONSTRUCTION PROCEDURES.

FLOOR PLAN LEGEND

- ROOM NAME ROOM IDENTIFIER WITH ROOM NAME & NUMBER
- 101
- DOOR/GATE, SEE DOOR SCHEDULE SHEET A-511 AND A-532
- 100 DOOR/GATE OPENING IDENTIFIER
- PH PANIC HARDWARE
- 60" CLEAR ACCESSIBLE TURNING SPACE
- (E) COVERED WALKWAY NOT IN SCOPE
- (E) BUILDING NOT IN SCOPE
- 20120A WALL TAG, SEE PARTITION SCHEDULE

WALL LEGEND

- (E) WOOD STUD FRAMED WALLS
- (E) 2-HR FIRE SEPARATED WOOD STUD FRAMED WALLS
- (E) 1-HR FIRE SEPARATED "MODULAR" SYSTEM PARTITION, METAL STUDS @ 40" OC W/ STEEL COVERED GYP BD PANELS.
- 1-HR FIRE BARRIER, SEE SHEET A-531 FOR TYPE



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ISSUED	MARK	DATE	DESCRIPTION

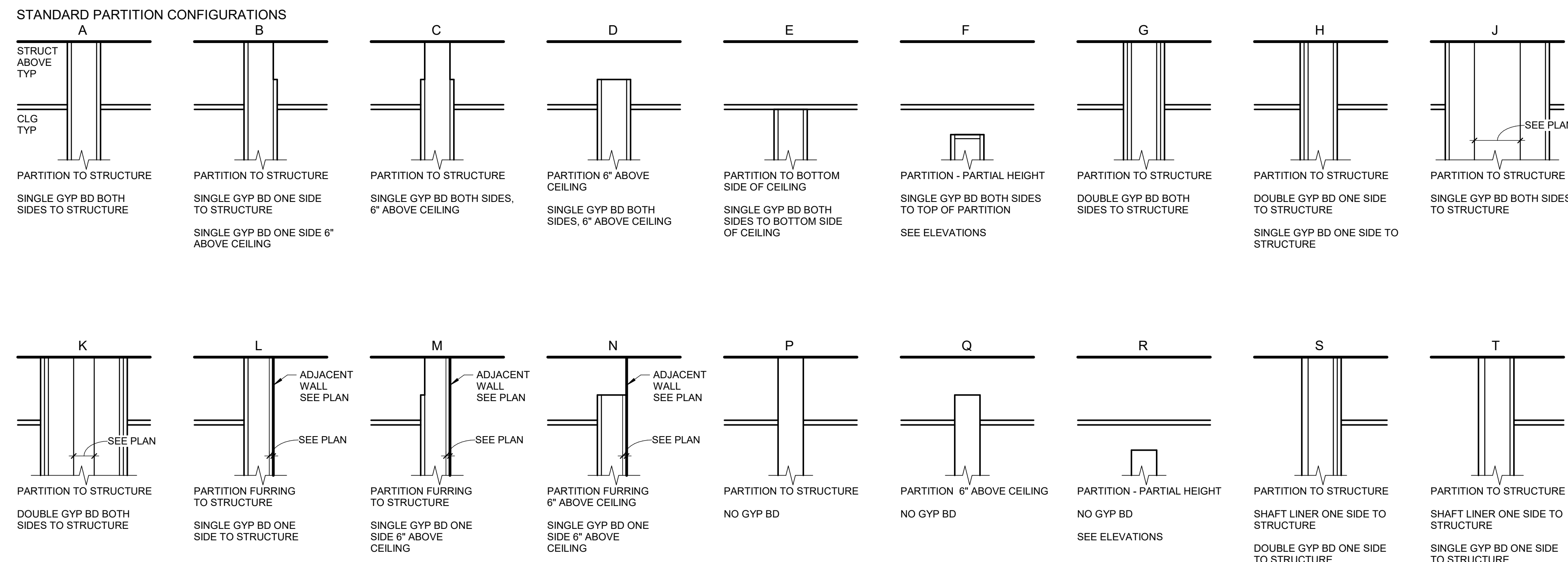
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	CLIENT PROJECT NO.	
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TITLE
FLOOR PLAN - LEVEL 1

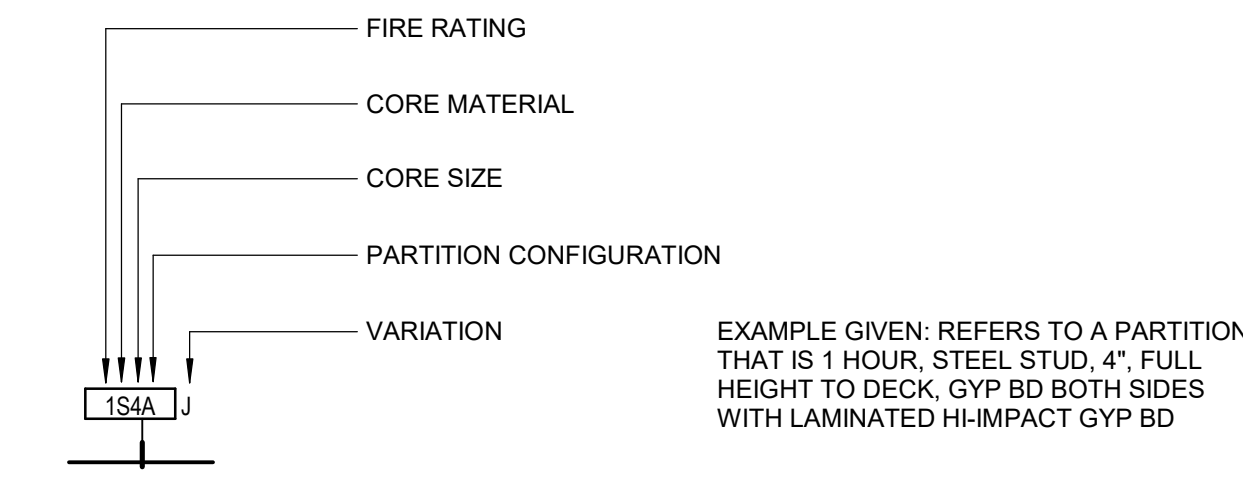
SHEET
A-111

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PARTITION CONFIGURATION DIAGRAMS (FOURTH CHARACTER DESIGNATOR)



PARTITION TYPE SYMBOL KEY



PARTITION SYMBOL DESIGNATORS

FIRST CHARACTER [154A] J		SECOND CHARACTER [154A] J	
DESIGNATOR	FIRE RATING	DESIGNATOR	CORE MATERIAL
0	NON-RATED	C	CONCRETE
1	1 HR	D	DETENTION WALL
2	2 HR	E	EXISTING
3	3 HR	F	FURRING - WOOD
4	4 HR	H	STEEL HAT CHANNELS
		M	MASONRY
		S	STEEL STUD
		T	SHAFTWALL STUD
		W	WOOD STUD
		Z	STEEL ZEE CHANNELS

THIRD CHARACTER [154A] J		CORE MATERIAL SIZE											
DESIGNATOR		C	D	F	H	M	S	T	W	Z	--	--	--
1				3/4"	3/4"		1 5/8"			7/8"			
2		2"	1 1/2"	1 1/2"	2 1/2"		3 5/8"	2 1/2"		1 1/2"			
4	4"		2 1/2"	2 1/2"			4"	4"	3 1/2"				
6	6"					5 5/8"	6"	6"	5 1/2"				
8	8"					7 5/8"	8"	8"	7 1/4"				
10	10"					9 5/8"	10"	10"	9 1/4"				
12	12"					11 5/8"	12"	12"	11 1/4"				

FOURTH CHARACTER [154A] J

SEE PARTITION CONFIGURATION DIAGRAMS AT LEFT

FIFTH CHARACTER [154A] J	
DESIGNATOR	VARIATION MATERIAL
A	MOISTURE RESISTANT GYP BD
B	CEMENTITIOUS BACKER BD
C	GYP BD, ADDITIONAL LAYER
D	REMOVE GYP BD
E	SOUND DAMPENING GYP BD
F	HI-IMPACT GYP BD
G	PLYWOOD
H	LEAD BACKED GYP BD
J	LAMINATED HI-IMPACT GYP BD
K	RIGID INSULATION
L	BULLET RESISTANT COMPOSITE PANELS
M	WITHOUT ACOUSTIC INSULATION
P	PARTITION
S	SMOKE
W	FIRE

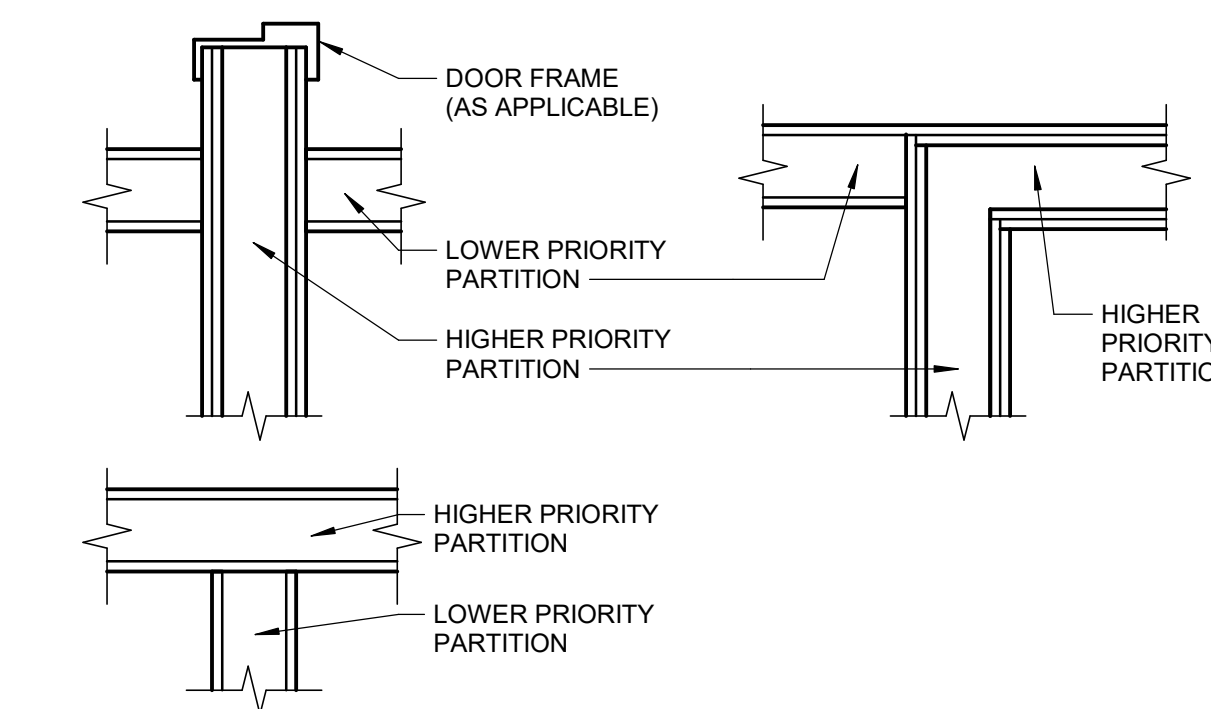
PARTITION TYPE GENERAL NOTES

- REFER TO THE FLOOR PLANS FOR PARTITION TYPE SYMBOLS. A PARTITION TYPE IS INDICATED BY A SYMBOL CONTAINING THE PARTITION IDENTIFICATION WHICH REFERS TO A SPECIFIC ASSEMBLY INDICATED ON THIS SHEET.
- THE CONSTRUCTION OF EXTERIOR WALLS ARE SHOWN ON WALL SECTIONS & CORRESPONDING DETAILS. PARTITION SYMBOLS ARE ONLY USED TO SHOW INTERIOR CONDITIONS, INCLUDING INTERIOR FURRING OF EXTERIOR WALLS.
- PARTITION TYPES AS NOTED BY THE SYMBOL CONTINUE BETWEEN ROOM/SPACE CORNERS OR ANY INTERSECTING PARTITION.
- SEE PLANS FOR STRUCTURE ABOVE NOTED IN PARTITION CONFIGURATION DIAGRAMS.
- THE PARTITION TYPE ABOVE OR BELOW ANY OPENING IS TO BE THE SAME AS THAT SCHEDULED FOR EITHER SIDE OF THE OPENING, UNO.
- DIFFERING PARTITION TYPES SHALL ALIGN SO THAT PARTITION FINISH PLANES CONTINUE UNBROKEN WITHIN AND/OR ACROSS SPACES.
- IN CASES WHERE TWO DIFFERENT CEILING HEIGHTS ABUT PARTITIONS, THE PARTITION SHALL EXTEND ABOVE THE HIGHEST CEILING INDICATED.
- GYPSON BOARD SHALL BE FIRE RESISTANT, TYPE 'X' UNO. FIRE RATED PARTITIONS SHALL BE CONSTRUCTED PER CBC, TABLE 720.1(2).
- PROVIDE MOISTURE RESISTANT GYP BOARD AT PARTITIONS IN WET AREAS (FLOOR TO FINISH CEILING) INCLUDING BUT NOT LIMITED TO THE FOLLOWING ROOMS:
 - A. TOILET ROOMS
 - B. JANITOR CLOSETS
 - C. OUTSIDE AIR SHAFTS
 - D. MECHANICAL ROOMS
 - E. DRINKING FOUNTAIN ALCOVES
 - F. KITCHENS
 - G. LOCKERS
- PROVIDE CEMENTITIOUS BACKER BOARD AT WET AREAS SCHEDULED WITH TILE FINISH.
- PROVIDE ACOUSTICAL TREATMENT AT PARTITIONS WITH ACOUSTIC INSULATION.
 - FILL STUD CAVITIES & RUN INSULATION CONTINUOUS AROUND COLUMNS & OTHER OBSTRUCTIONS TO FORM A CONTINUOUS ACOUSTIC BARRIER.
 - A. INSTALL ACOUSTIC BATT INSULATION, FULL WIDTH, DEPTH, AND HEIGHT.
- INSTALL ACOUSTICAL SEALANT AT PARTITION HEAD, SILL & JAMB TRANSITIONS, AS WELL AS AT PENETRATIONS THROUGH THE GYPSUM BOARD MEMBRANE INCLUDING PENETRATIONS AT MOUNTING FASTENERS. FIRE STOPPING REQUIREMENTS SHALL SUPERCEDE ACOUSTIC TREATMENT.
- GYPSON BOARD SILL & JAMB EDGES TERMINATING AT DISSIMILAR MATERIAL (CMU, CONCRETE, METAL PANEL, ETC) SHALL ALLOW 1/4" CONTINUOUS GAP AND BE SEALED AIRTIGHT WITH AN ACOUSTIC SEALANT.
- THE BACK AND SIDES OF DUPLEX ELECTRICAL OUTLETS, TELEPHONE OUTLETS, CABLE TV OUTLETS, FIRE ALARM DEVICES, THERMOSTATS, ETC. SHALL BE SEALED WITH FIRE STOP PUTTY PADS AS SPECIFIED FOR FIRE RATED ASSEMBLIES. ELSEWHERE, BACK-TO-BACK OUTLET BOXES TO BE SEPARATED BY ONE EMPTY STUD SPACE AND A MINIMUM OF 16 INCHES.
- PARTITIONS INDICATED AS FIRE OR SMOKE RATED FORM A SEPARATION THAT SHALL BE CONTINUOUS FROM FLOOR TO STRUCTURE ABOVE WITH NO BREAKS AT CONCEALED SPACES, COLUMNS, TRANSITIONS OR OTHER OBSTRUCTIONS.
- PENETRATIONS THROUGH RATED PARTITIONS SHALL BE SEALED WITH UL LISTED FIRE/SMOKE STOP ASSEMBLY.
- SEE PARTITION PRIORITY LEGEND FOR PRIORITIZATION OF INTERSECTING PARTITIONS.

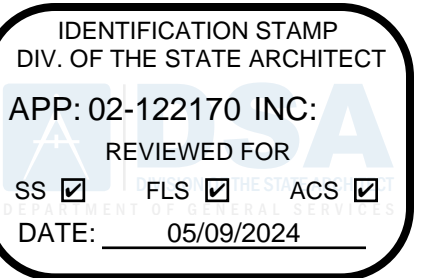
PARTITION TYPE SCHEDULE

PARTITION TYPE	VARIATION	UL ASSEMBLY	STC RATING	HEAD	SILL	HEAD	SILL	REMARKS
1T4E		UL415		5/A-532	7/A-532			

PARTITION PRIORITY LEGEND



- NOTE:
- ALL PARTITIONS MAY NOT BE USED. SEE PLANS.
 - PARTITIONS WITH HIGHER ASSIGNED PRIORITY SHALL BE CONTINUOUS THROUGH INTERSECTIONS.

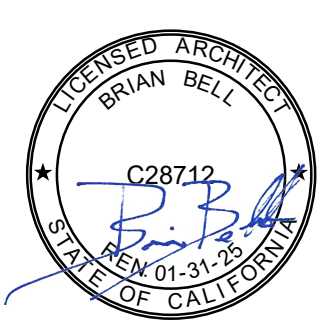


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SWIMMING POOL UPGRADE**

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CLIENT
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ISSUED	MARK	DATE	DESCRIPTION

MANAGEMENT
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TITLE
**PARTITION TYPES &
SCHEDULE**

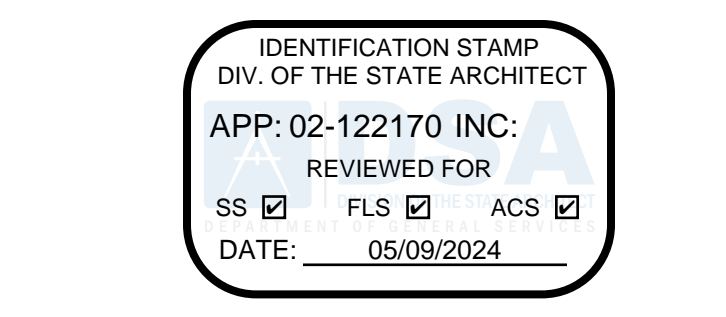
SHEET

A-531

DOOR SCHEDULE																		
DOOR NO	LOCATION	FIRE RATING (MINS)	HDW GP	DOORS								FRAMES						COMMENTS
				TYPE	WIDTH	LEAF 2 TYPE	WIDTH	MATL	HEIGHT	FINISH	GL	TYPE	MATL	FINISH	GL	HEAD	JAMB	
106A	MECHANICAL ROOM	45	(none)	DF1	3'-0"			HM	7'-0"	PT			FB1	HM	PT	9/A-532	9/A-532	

DOOR SCHEDULE GENERAL NOTES

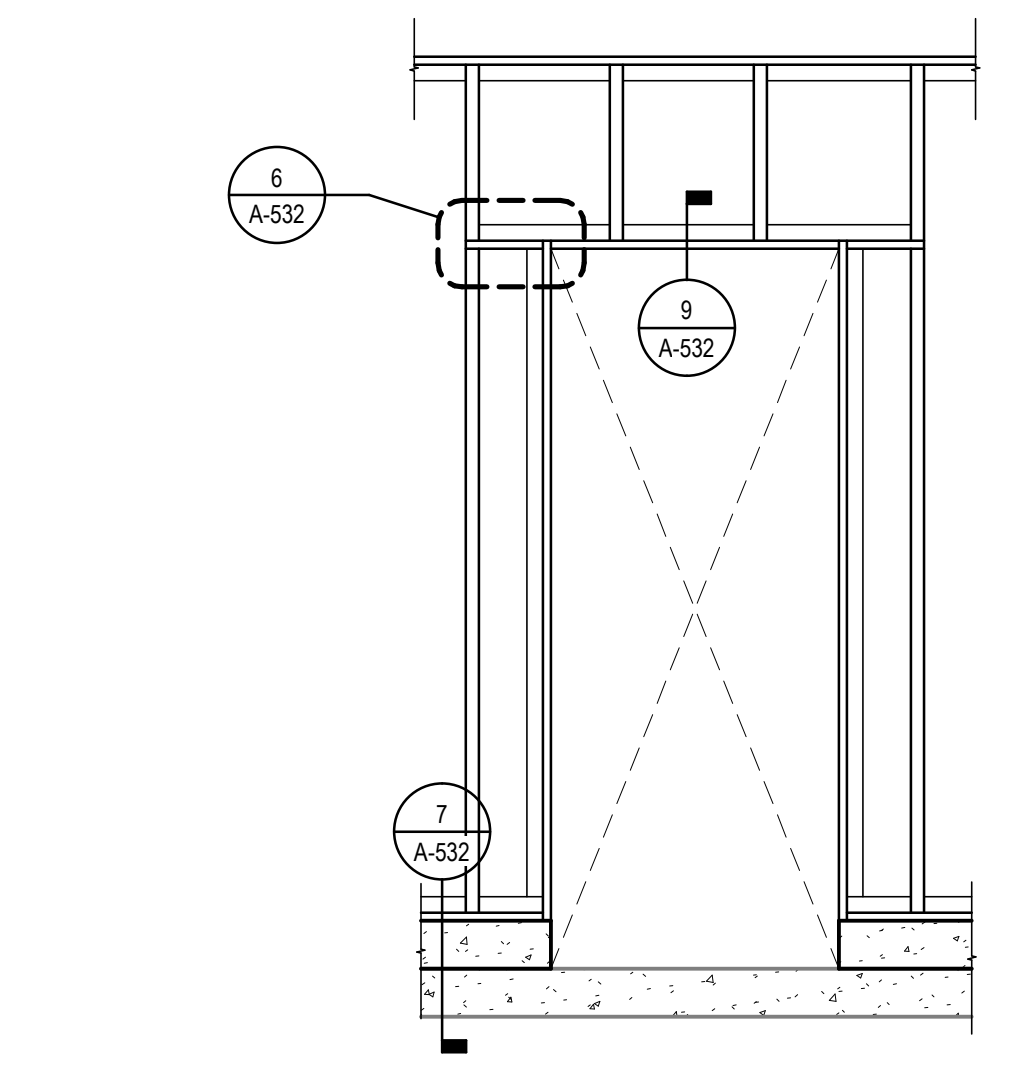
- GENERAL DOOR SHEET NOTES ARE TYPICAL UNLESS NOTED OTHERWISE.
- FLOORS OR LANDINGS ON EACH SIDE OF EXIT DOORS SHALL NOT EXCEED 1/2' FROM THE TOP OF THE DOOR THRESHOLD TO THE FLOOR OR LANDING SURFACE ON EITHER SIDE OF THE DOOR ASSEMBLY.
- EXITS AND EXIT ACCESS DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF TRAVEL.
- THE FORCE FOR PUSHING OR PULLING OPEN INTERIOR SWINGING EGRESS DOORS, OTHER THAN FIRE DOORS, SHALL NOT EXCEED 5 POUNDS. FOR OTHER SWINGING DOORS, AS WELL AS SLIDING AND FOLDING DOORS, THE DOOR LATCH SHALL RELEASE WHEN SUBJECTED TO A 15 POUND MAXIMUM FORCE.
- LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN THE PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP, PINCH OR TWIST THE OPENING HARDWARE.
- THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, A 10" HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
- RATED DOORS SHALL BE POSITIVE LATCHING AND SELF CLOSING.
- FIRE RATED DOORS AND GLASS SHALL HAVE AN APPROVED LABEL OR LISTING MARK INDICATING THE FIRE PROTECTION RATING WHICH IS PERMANENTLY AFFIXED AT THE FACTORY WHERE FABRICATION AND ASSEMBLY OCCUR.
- DOOR AND FRAME ASSEMBLY DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION.
- COORDINATE OVERALL DOOR FRAME DEPTHS WITH WALL TYPES.
- FOR DOOR HARDWARE GROUPS, SEE PROJECT SPECIFICATIONS.



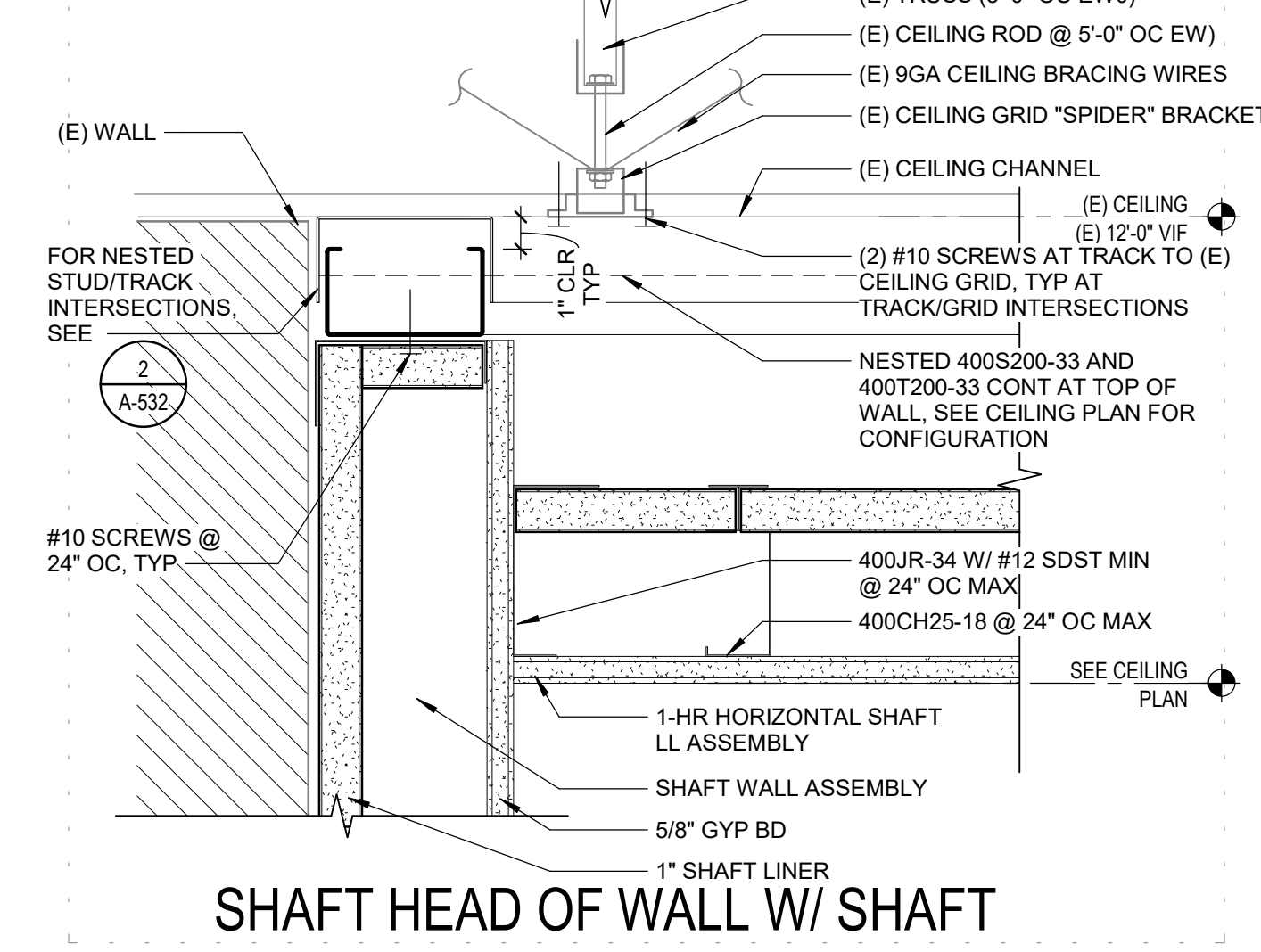
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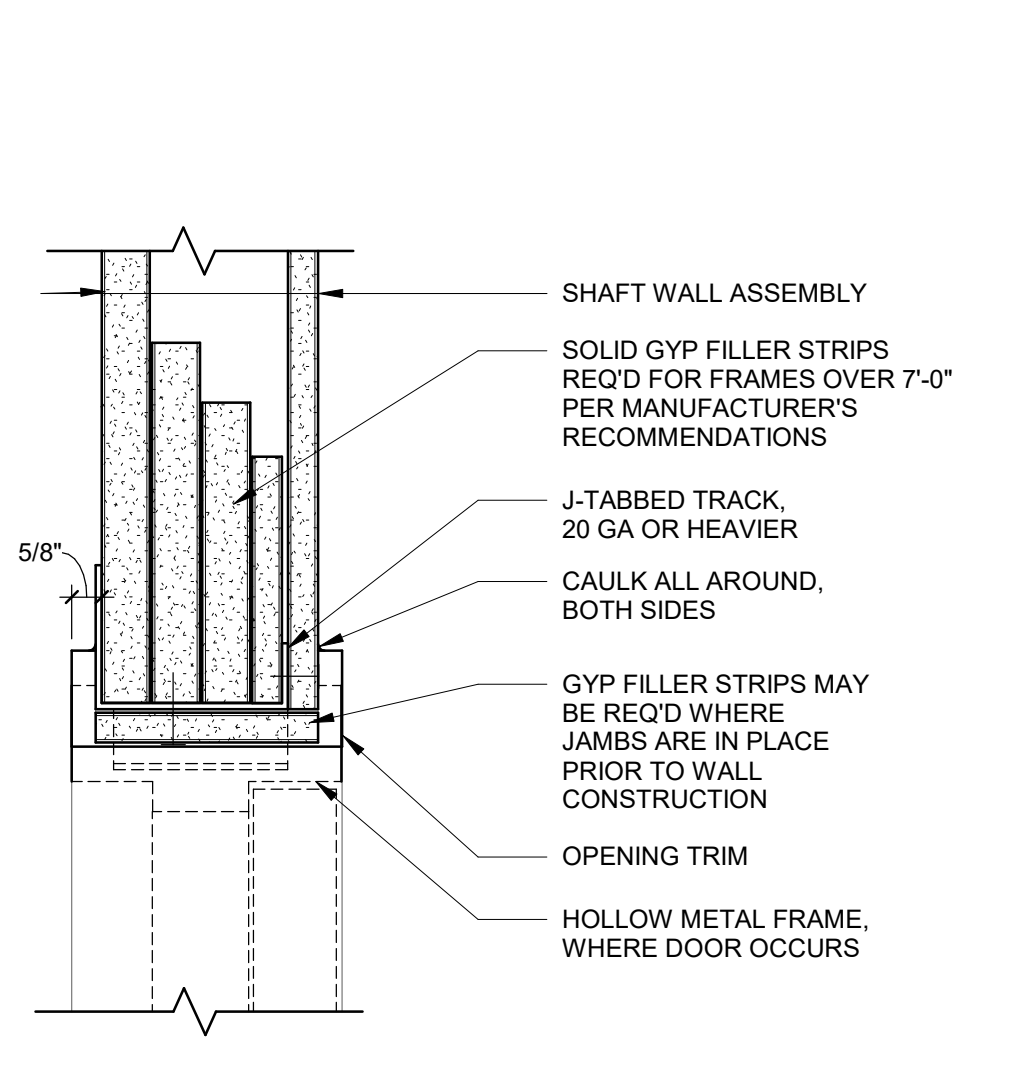
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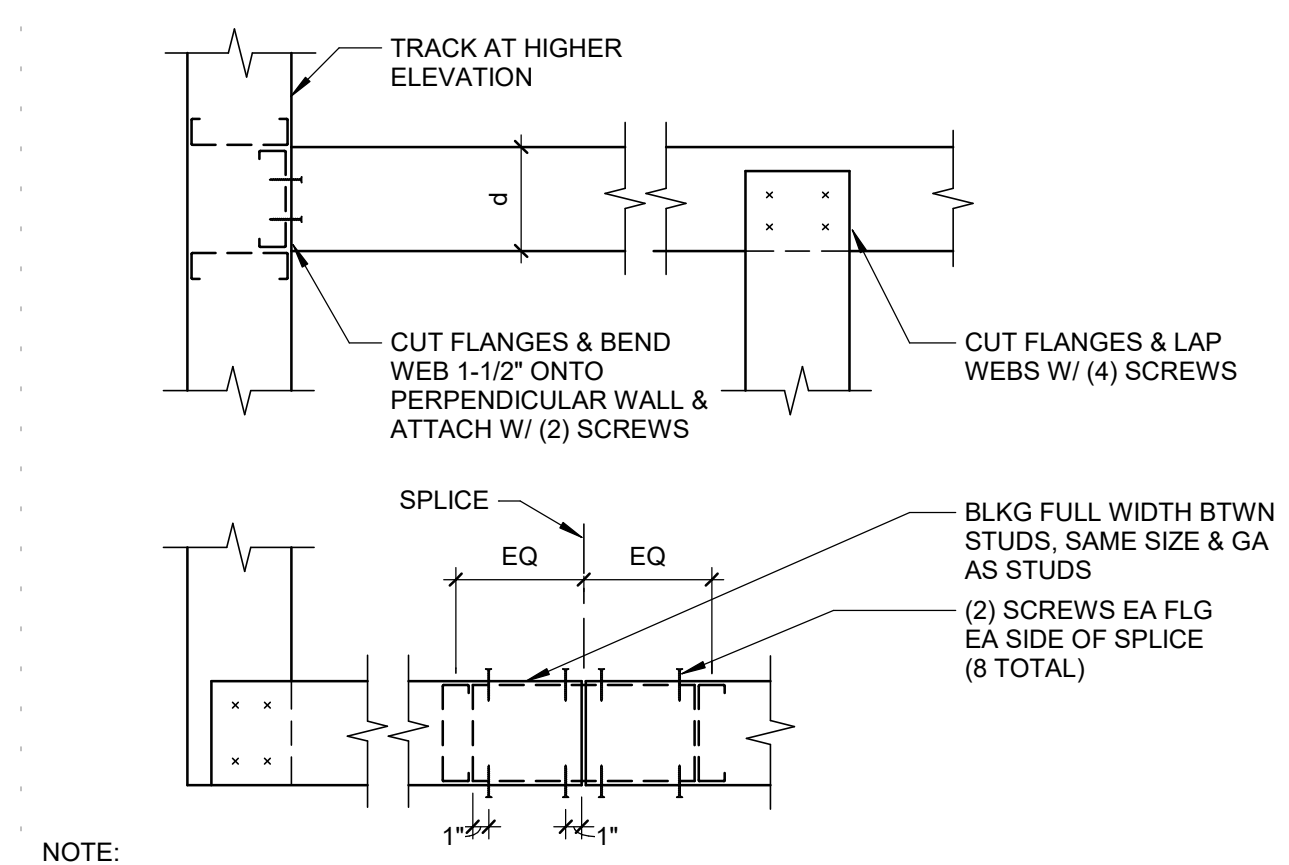
1 SHAFT WALL - DR OPENING
1/2" = 1'-0"



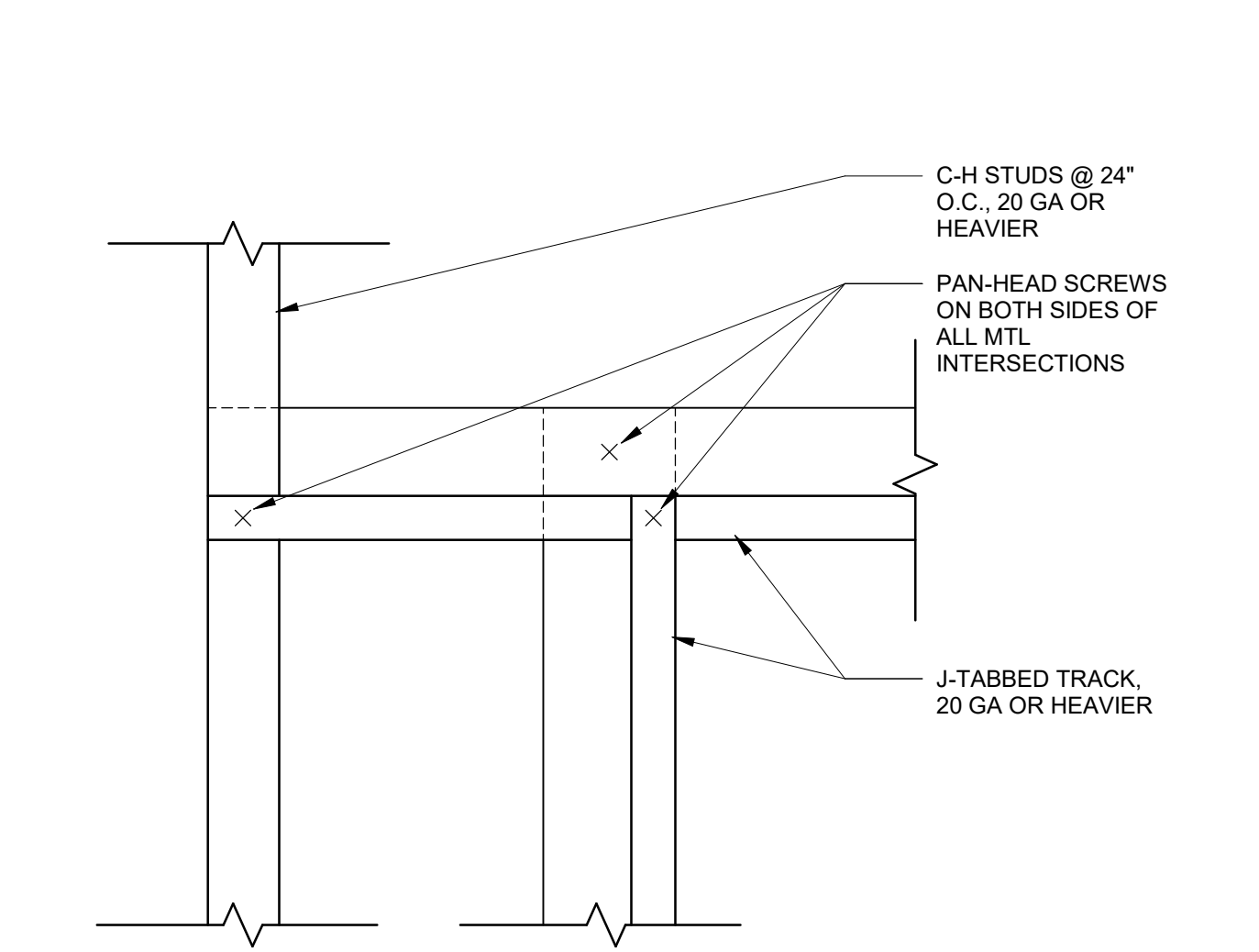
5 SHAFT HEAD OF WALL W/ SHAFT CEILING
3" = 1'-0"



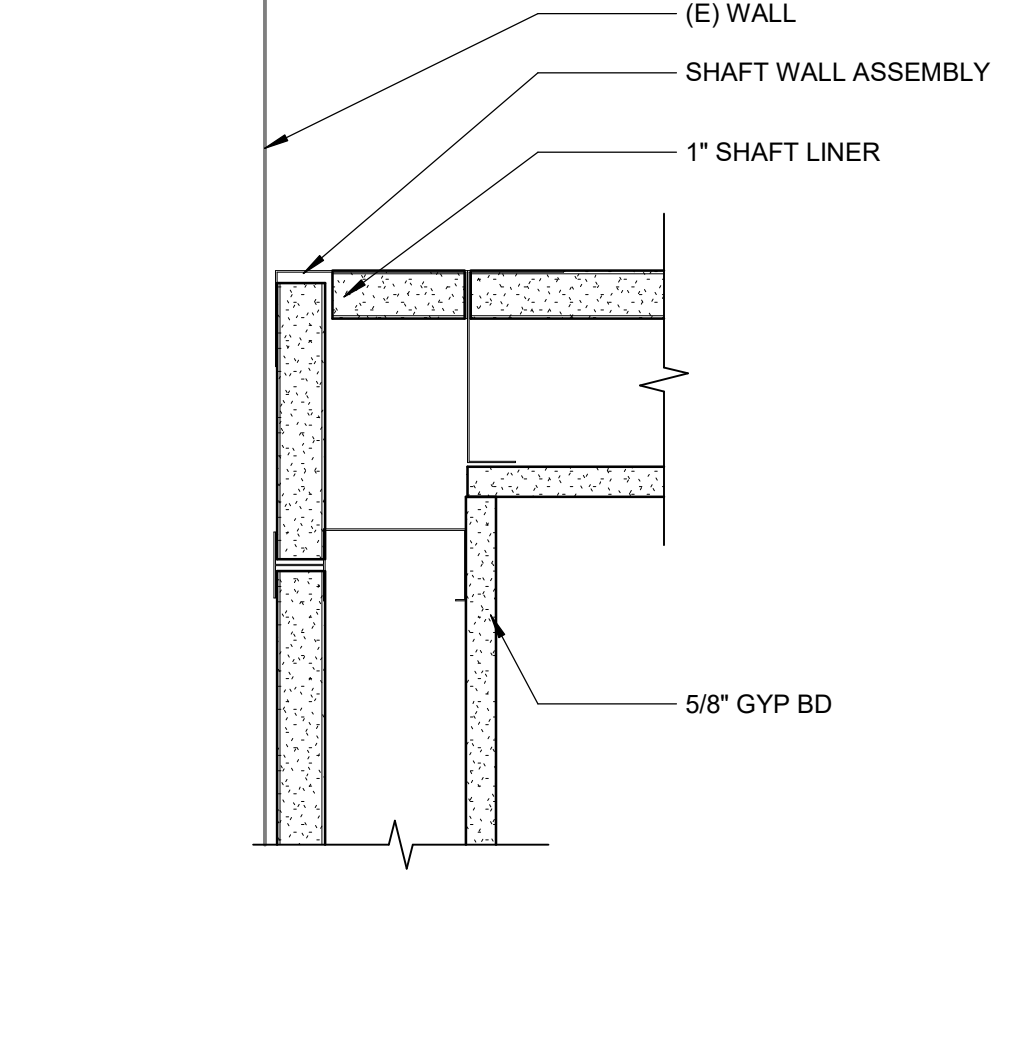
9 SHAFT WALL - HEAD (JAMB SIM)
3" = 1'-0"



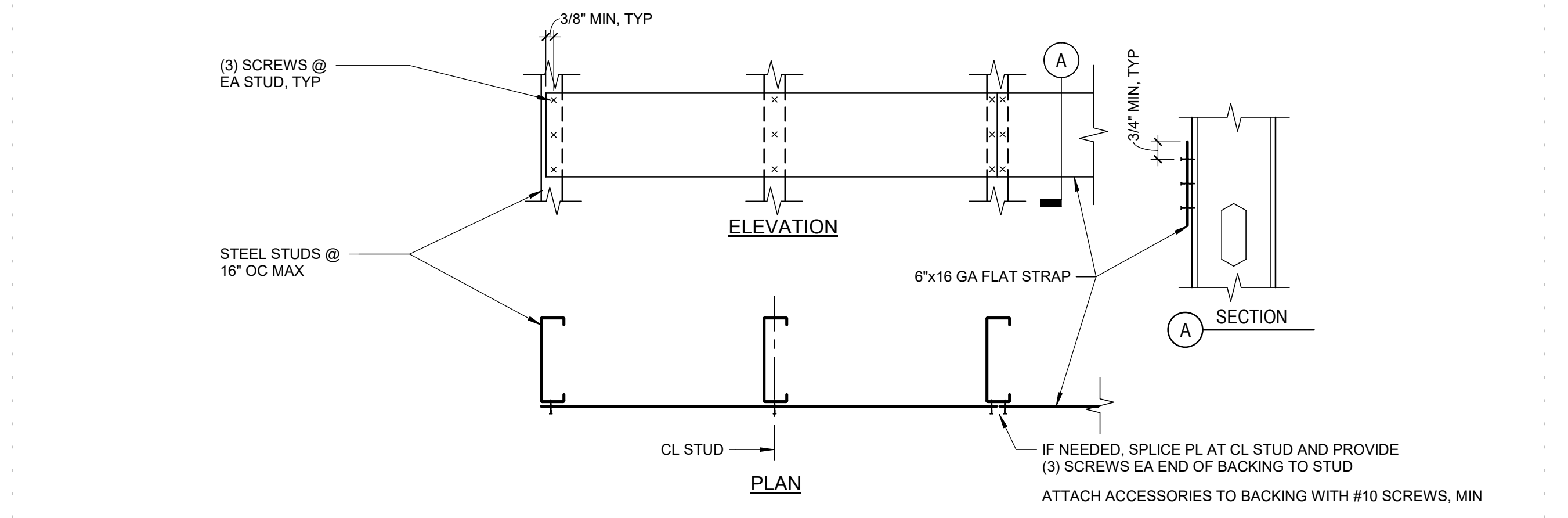
2 TYP STEEL TOP TRACK FRAMING AT CORNERS, INTERSECTIONS, AND SPLICES
SCALE: NTS



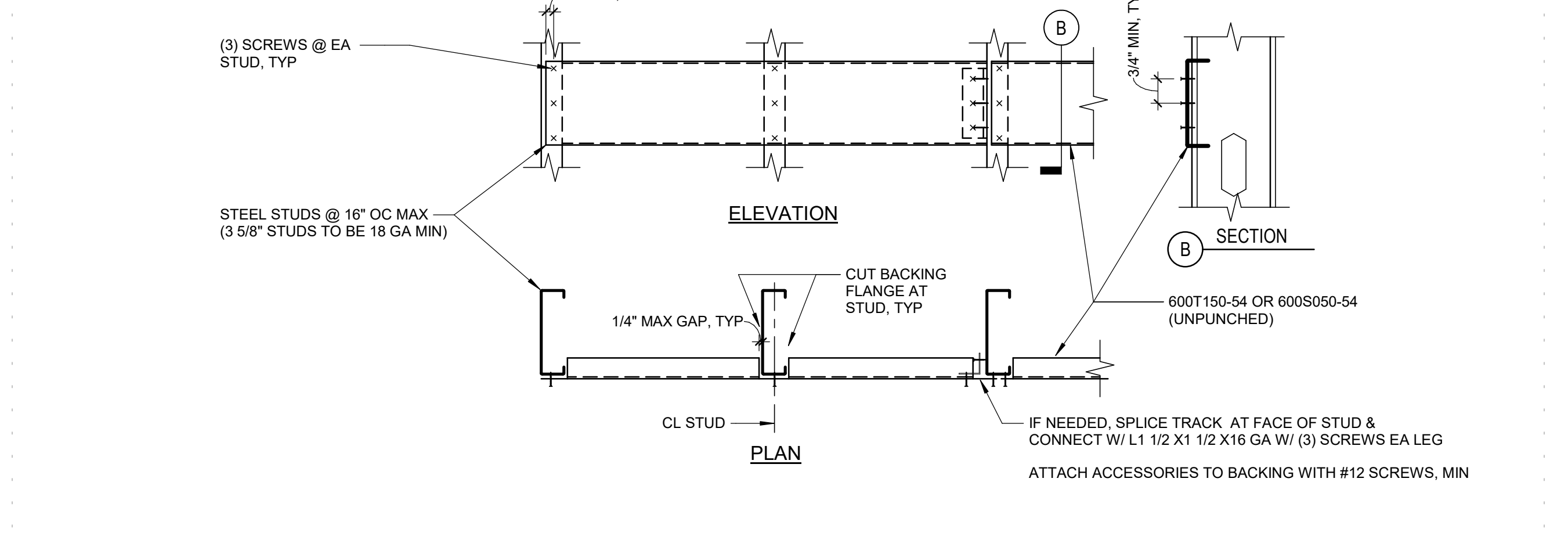
6 OPNG INSIDE CRNR (SHAFT WALL)
3" = 1'-0"



10 SHAFT WALL - CORNER FRAMING - PLAN
3" = 1'-0"



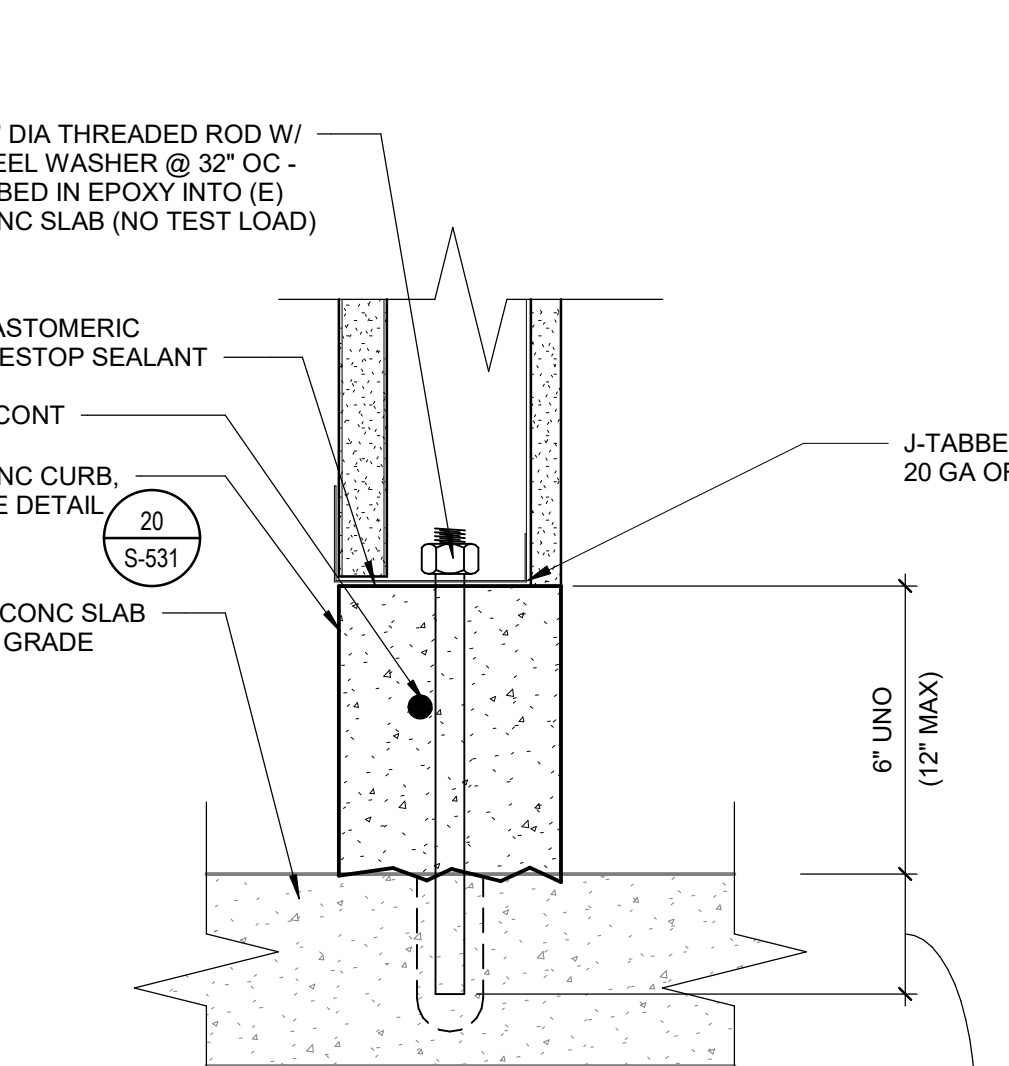
8 TYP STEEL STUD WALL BACKING PLATE
SCALE: NTS



7 SHAFT WALL SILL
3" = 1'-0"

SHAFT WALL COMPONENT SECTION PROPERTIES

COMPONENT	USG PRODUCT IDENTIFICATION	MEMBER DEPTH, d (in)	FLANGE WIDTH, b (in)	MILS	REF GA	AREA, A (in ²)	EFFECTIVE AREA, A _e (in ²)	S _x (in ³)
C-H STUDS	212CH-18	2 1/2	1 1/2	18	25	0.1524	0.129	0.093
	212CH-34	2 1/2	1 1/2	34	20	0.2910	0.239	0.1741
	400CH-18	4	1 1/2	18	25	0.1798	0.383	0.162
	400CH-34	4	1 1/2	34	20	0.3433	0.730	0.318
DOUBLE E-STUDS	600CH-34	6	1 1/2	34	20	0.4227	1.988	0.569
	600ES-18	6	2	18	25	0.3982	2.004	0.628
J-RUNNER	600ES-34	6	2	34	20	0.6304	3.400	1.094
	212JR-23	2 1/2	1 & 2	23	24	0.1346	0.117	0.085
	212JR-34	2 1/2	1 & 2	34	20	0.2039	0.192	0.130
	400JR-23	4	1 & 2	23	24	0.1705	0.351	0.163
	400JR-34	4	1 & 2	34	20	0.2577	0.574	0.251
	600JR-23	6	1 & 2	23	24	0.2163	0.937	0.295
JAMB STRUT	600JR-34	6	1 & 2	34	20	0.3295	1.523	0.457
	212JS-34	2 1/2	1 & 3	34	20	0.2398	0.226	0.143
	400JS-34	4	1 & 3	34	20	0.2936	0.647	0.270
	600JS-34	6	1 & 3	34	20	0.3654	1.673	0.485



16 URINAL PARTITION ATTACHMENT
3" = 1'-0"

LEGEND

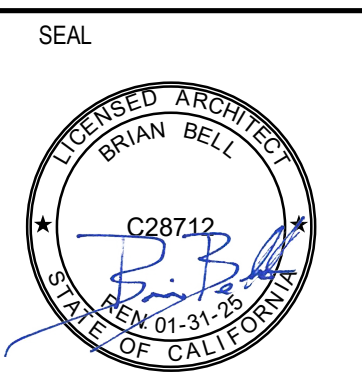
- (E) = EXISTING
 ADO = AUTOMATIC DOOR OPERATOR
 ADC = AUTOMATIC DOOR CLOSER
 CR = CARD READER
 EL = ELECTRIC LOCK
 HDW GP = HARDWARE GROUP
 HO = HOLD OPEN
 PH = PANIC HARDWARE
 V = VINYL STRIPS
- MATERIAL**
 ALUM = ALUMINUM
 DHM = DETENTION HOLLOW METAL
 CR = COLD FORMED STEEL
 HM = HOLLOW METAL
 SST = STAINLESS STEEL
 WD = WOOD
- FINISH**
 ANOD = ANODIZED
 FRP = FIBER REINFORCED PLASTIC
 PLAM = PLASTIC LAMINATE
 PT = PAINT
 ST = STAIN
- GLASS LEGEND:**
 GL = GLASS
 LG = LEADED GLASS
 RG = RATED GLASS
 SG = SPANDREL GLASS
 TG = TEMPERED GLASS
- GLASS LEGEND NOTES:**
 1. SEE SPECS FOR GLASS TYPES NOTED

COLD-FORMED STEEL SHAFT WALL

- SHAFT WALL ASSEMBLY SHALL BE DESIGNED TO UL 415
- THE DESIGN, INSTALLATION AND CONSTRUCTION OF COLD-FORMED STEEL SHAFT WALL FRAMING SHALL COMPLY WITH THE REQUIREMENTS OF FIRE-RESISTANCE RATED ASSEMBLIES INDICATED IN THE UNITED STATES GYPSUM (USG) SYSTEM FOLDER SA926.
- PRODUCTS SHALL BE MANUFACTURED BY OR FOR THE UNITED STATES GYPSUM COMPANY AND COMPLY WITH ICC AER-09036.
- STEEL MEMBERS SHALL COMPLY WITH ASTM C645.
- ALL STEEL SHAFT WALL MEMBERS SHALL HAVE THE MINIMUM EFFECTIVE STRUCTURAL SECTION PROPERTIES AS GIVEN IN TABLES BELOW.
- J-RUNNERS AND JAMB STRUT SHALL BE ASTM A653 SS GRADE 33 FOR 24GA. MINIMUM THICKNESS AND ASTM A653 SS GRADE 40 FOR 20GA MINIMUM THICKNESS.
- C-H AND E STUDS SHALL BE MANUFACTURED FROM COLD ROLL-FORMED LIGHT GAUGE STEEL CONFORMING TO ASTM A653 SS GRADE 33 FOR 25GA THICKNESS AND ASTM A653 SS GRADE 40 FOR 20GA MINIMUM THICKNESS.

SHAFT WALL COMPONENT SECTION PROPERTIES

COMPONENT	USG PRODUCT IDENTIFICATION	MEMBER DEPTH, d (in)	FLANGE WIDTH, b (in)	MILS	REF GA	AREA, A (in ²)	EFFECTIVE AREA, A _e (in ²)	S _x (in ³)
C-H STUDS	212CH-18	2 1/2	1 1/2	18	25	0.1524	0.129	0.093
	212CH-34	2 1/2	1 1/2	34	20	0.2910	0.239	0.1741
	400CH-18	4	1 1/2	18	25	0.1798	0.383	0.162
	400CH-34	4	1 1/2	34	20	0.3433	0.730	0.318
DOUBLE E-STUDS	600CH-34	6	1 1/2	34	20	0.4227	1.988	0.569
	600ES-18	6	2	18	25	0.3982	2.004	0.628
J-RUNNER	600ES-34	6	2	34	20	0.6304	3.400	1.094
	212JR-23	2 1/2	1 & 2	23	24	0.1346	0.117	0.085
	212JR-34	2 1/2	1 & 2	34	20	0.2039	0.192	0.130
	400JR-23	4	1 & 2	23	24	0.1705	0.351	0.163
	400JR-34	4	1 & 2	34	20	0.2577	0.574	0.251
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	400JS-34	4	1 & 3	34	20	0.2936	0.647	0.270
	600JS-34	6	1 & 3	34	20	0.3654	1.673	0.485



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.
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TITLE
DETAILS

SHEET
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SYMBOLS LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
	-	3 WAY VALVE
	-	ANCHOR
	AVN	ANGLE VALVE
	AQ	AQUASTAT
	-	AUTOMATIC AIR VENT
	BFP, BP, DCW	BACKFLOW PREVENTER, BACKFLOW PREVENTER, DOUBLE CHECK VALVE
	-	BALANCING VALVE
	-	BALL VALVE
	-	BOTTOM CONNECTION
	-	CHECK VALVE
	CP	CIRCULATING PUMP
	CO	CLEANOUT
	EJ	EXPANSION JOINT
	-	FLEXIBLE CONNECTOR
	FD	FLOOR DRAIN
	FS	FLOOR SINK
	GCK	GAGE COCK
	GSCK, PC	GAS COCK, PLUG COCK
	GM	GAS METER
	GPR	GAS PRESSURE REGULATOR
	-	GATE VALVE
	HD	HOPPER DRAIN
	HB	HOSE BIBB
	-	PIPE BREAK, PIPE CONTINUATION
	-	PIPE CAP
	-	PIPE DOWN
	-	PIPE GUIDE
	-	PIPE UP
	-	POINT OF CONNECTION
	-	PRESSURE RELIEF VALVE
	-	REDUCER
	-	SOLENOID VALVE
	-	STRAINER
	-	THERMOMETER
	TP	TRAP PRIMER
	-	UNION
	-	VALVE IN RISER/DROP
	VB	VALVE IN VALVE BOX
	-	OVERHEAD CLEANOUT, WALL CLEANOUT
	WHA	WATER HAMMER ARRESTOR
	WM	WATER METER
	-	HOT AND COLD WATER CONNECTION
	-	EXISTING PIPING TO BE ABANDONED
	-	EXISTING PIPING TO BE REMOVED

PLUMBING ABBREVIATIONS			
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
ABC	ABOVE CEILING	INV OR I.E.	INVERT ELEVATION
AFB	ABOVE FINISHED FLOOR	LAV	LAVATORY SINK
AFG	ABOVE FINISHED GRADE	MS	MOP SINK
AF, BF	ABOVE FLOOR, BELOW FLOOR	(N), (E)	NEW, EXISTING
AP	ACCESS PANEL	NTS	NOT TO SCALE
BEL	BELOW	OH	OVERHEAD
BOF	BOTTOM OF FOOTING	(R), (D)	RISE, DROP
CLG	CEILING	SK	SINK
DN	DOWN	TOF	TOP OF FOOTING
DFU	DRAIN FIXTURE UNIT	TYP	TYPICAL
DF	DRINKING FOUNTAIN	UN	UNION
DL	DEVELOPED LENGTH	UG	UNDERGROUND
FA	FROM (LEVEL OR ROOF) ABOVE	WH	WALL HYDRANT
FB	FROM (LEVEL OR UG) BELOW	WC	WATER CLOSET
FD	FLOOR DRAIN	WSFU	WATER SUPPLY FIXTURE UNITS
FCO	FLOOR CLEANOUT		
FLR	FLOOR		
FS	FLOOR SINK		
GCO	GRADE CLEANOUT		

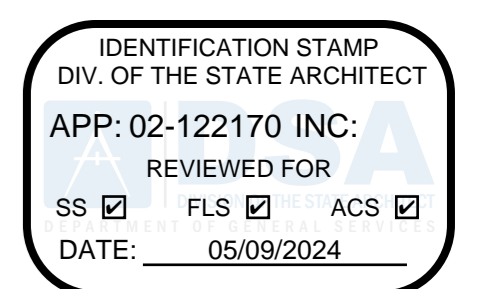
PLUMBING SYSTEMS LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
	CD	CONDENSATE DRAIN
	CW	DOMESTIC COLD WATER
	D	DRAIN
	HW	DOMESTIC HOT WATER
	HWR	DOMESTIC HOT WATER RETURN
	HHWR	HEATING HOT WATER RETURN
	HHWS	HEATING HOT WATER SUPPLY
	NGLP	NATURAL GAS - LOW PRESSURE
	NGMP	NATURAL GAS - MEDIUM PRESSURE
	NGHP	NATURAL GAS - HIGH PRESSURE
	NPCW	NON-POTABLE COLD WATER
	OD	OVERFLOW DRAIN
	PCD	PUMPED CONDENSATE DRAIN
	PSD	PUMPED STORM DRAIN
	PSS	PUMPED SANITARY DRAIN
	SD	STORM DRAIN
	SSD	SUB-SOIL DRAINAGE
	SS	SANITARY SEWER
	TW	TEMPERED DOMESTIC WATER
	TWR	TEMPERED DOMESTIC WATER RETURN
	TPW	TRAP PRIMER WATER
	V	VENT FOR SANITARY SEWER

FIRE STOPPING	
1.	PACK THE ANNULAR SPACE BETWEEN THE PIPE SLEEVES AND THE PIPE THROUGH ALL FLOORS AND WALLS WITH UL LISTED FIRE STOP, AND SEALED AT THE ENDS. ALL PIPE PENETRATIONS SHALL BE UL LISTED, HILTI, 3M PRO-SET, OR EQUAL.
A.	INSTALL FIRE CAULKING BEHIND MECHANICAL SERVICES INSTALLED WITHIN FIRE RATED WALLS, TO MAINTAIN CONTINUOUS RATING OF WALL CONSTRUCTION.
2.	PROVIDE SPECSEAL SYSTEMS UL FIRE RATED SLEEVE/COUPLING PENETRATORS FOR EACH PIPE PENETRATION OR FIXTURE OPENING PASSING THROUGH FLOORS, WALLS, PARTITIONS OR FLOOR/CEILING ASSEMBLIES. ALL PENETRATORS SHALL COMPLY WITH UL FIRE RESISTANCE DIRECTORY (LATEST EDITION), AND IN ACCORDANCE WITH CHAPTER 7, CBC REQUIREMENTS.
3.	SLEEVE PENETRATORS SHALL HAVE A BUILT IN ANCHOR RING FOR WATERPROOFING AND ANCHORING INTO CONCRETE POURS OR USE THE SPECIAL FIT CORED HOLE PENETRATOR FOR CORED HOLES.
4.	COPPER AND STEEL PIPING SHALL HAVE SPECSEAL PLUGS ON BOTH SIDES OF THE PENETRATOR TO REDUCE NOISE AND TO PROVIDE WATERPROOFING.
5.	ALL ABOVE SYSTEMS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. 6. ALTERNATE FIRE STOPPING SYSTEMS ARE ACCEPTABLE IF APPROVED EQUAL. HOWEVER, ANY DEVIATION FROM THE ABOVE SPECIFICATION REQUIRES THE CONTRACTOR TO BE RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE PROPOSED PRODUCTS AND THEIR INTENDED USE, AND THE CONTRACTOR SHALL ASSUME ALL RISKS AND LIABILITIES WHATSOEVER IN CONNECTION THEREWITH.

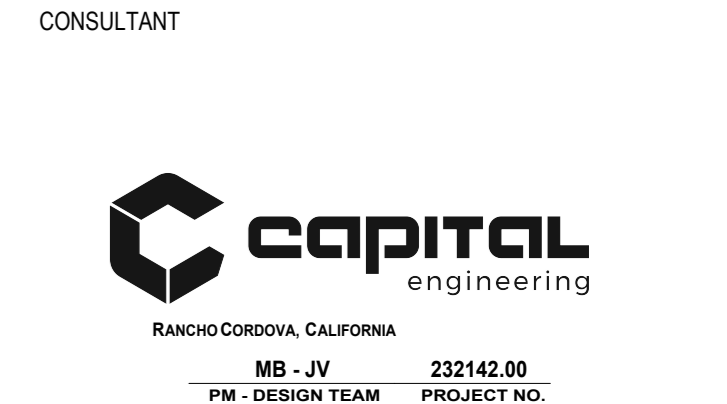
PLUMBING GENERAL NOTES	
1.	REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND EXACT LOCATIONS OF PLUMBING FIXTURES.
2.	DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC ONLY. CONTRACTOR SHALL FIELD VERIFY WHERE POSSIBLE, EXACT LOCATIONS, SIZES, AND ELEVATIONS OF ALL ITEMS SHOWN PRIOR TO THE INSTALLATION OF ANY NEW WORK.
3.	CONTRACTOR SHALL FIELD VERIFY ALL POINTS OF CONNECTION TO SITE PIPING (LOCATIONS AND INVERT) PRIOR TO EXCAVATION, FABRICATION AND INSTALLATION OF ASSOCIATED PIPING RUNS. NOTIFY ARCHITECT AND/OR ENGINEER IMMEDIATELY IF POINTS OF CONNECTION OR INVERTS ARE DIFFERENT THAN REPRESENTED ON THE DRAWINGS.
4.	CLOSELY COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO TRENCHING OR INSTALLATION OF NEW. IDENTIFY SIZE AND LOCATIONS OF ALL PENETRATIONS THROUGH FOUNDATIONS, WALLS OR ROOFS PRIOR TO FABRICATION OF ANY SYSTEMS OR ORDERING MATERIALS AFFECTED BY POSSIBLE COORDINATION CONFLICTS.
5.	ACCESS PANELS SHALL BE PROVIDED AS NECESSARY TO PROPERLY ACCESS THE PLUMBING SYSTEM INCLUDING VALVES, REFER TO SPECIFICATIONS FOR MORE INFORMATION.
6.	OFFSET VENT THROUGH ROOFS 10'-0" MINIMUM FROM AIR INTAKES AND 4'-0" FROM OUTSIDE WALLS.
7.	HVAC EQUIPMENT IS SHOWN FOR THE COORDINATION OF UTILITIES ONLY. REFER TO 'M' SHEETS FOR MORE INFORMATION.
8.	THE CONNECTION OF NATURAL GAS LINES TO EQUIPMENT SHALL INCLUDE A LINE SIZE SHUT-OFF VALVE, UNION AND A MINIMUM 6" LONG DIRT LEG WITH ACCESSIBLE END CAP.
9.	THE CONNECTION OF CONDENSATE DRAIN LINES TO HVAC EQUIPMENT SHALL INCLUDE A MINIMUM 4" DEEP "P"-TRAP AND PLUGGED TEE AT ALL OFFSETS.
10.	PROVIDE WATER HAMMER ARRESTORS (WHA) AS INDICATED ON PLUMBING PLANS AND/OR AS DESCRIBED WITHIN DIVISION 22 SPECIFICATIONS. SIZING SHALL BE IN ACCORDANCE WITH PDI STANDARD WH-201.
11.	FOR PIPES PASSING THROUGH, UNDER OR PARALLEL TO BUILDING FOOTINGS, RETAINING WALLS ETC. REFER TO STRUCTURAL DETAILS, 'S' SHEETS, FOR TYPICAL ARRANGEMENT.
12.	OFFSET ALL RISERS AND DROPS TO AVOID PENETRATIONS AT TOP PLATES.
13.	PENETRATION OF PIPES, CONDUIT, ETC., IN WALLS AND/OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.
14.	SEAL ALL PIPE PENETRATIONS THRU FLOORS WATERTIGHT.
15.	ALL VALVES SHOWN SHALL BE FULL LINE SIZE UNLESS OTHERWISE NOTED.
16.	PIPING SHALL BE SUPPORTED AND BRACED IN STRICT COMPLIANCE WITH DIVISION 22 SPECIFICATIONS.
17.	ALL NEW SANITARY WASTE PIPING SHOWN SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM UNLESS OTHERWISE NOTED ON PLANS. WHERE SLOPE IS LESS THAN 1/4" PER FOOT IS INDICATED, CONTRACTOR SHALL SLOPE NEW PIPING UNIFORMLY BETWEEN UPPER TERMINAL OF PIPE AND THE POINT OF CONNECTION TO THE SITE PIPING (AS INDICATED ON THE CIVIL PLANS) TO ACHIEVE MAXIMUM SLOPE POSSIBLE AND IN NO CASE SHALL THE PIPING BE SLOPED LESS THAN THE MINIMUM INDICATED.
18.	CONCEAL ALL PIPING IN WALL FURRING, PARTITIONS, ETC., EXCEPT AT MECHANICAL ROOMS.
19.	PROVIDE FUSION JOINT POLYPROPYLENE PIPING ON ALL GREASE WASTE, ACID WASTE & ACID VENT PIPING. INSTALL AND TEST PER MANUFACTURER GUIDELINES.
20.	ALL QUANTITIES SHOWN ON CALCULATION TABLES ARE STRICTLY INTENDED FOR DESIGN CALCULATIONS ONLY. IT SHALL NOT BE CONSTRUED THAT SUCH QUANTITIES CAN BE USED FOR BIDDING ESTIMATION PURPOSES.
21.	PROVIDE INSULATION ON ALL CONDENSATE DRAINS INSIDE BUILDING.

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.1.16 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 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 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 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 THE ABOVE REQUIREMENTS.	

PIPING, DUCTWORK & 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 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 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 PREAPPROVED 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 <input type="checkbox"/> MD <input type="checkbox"/> PP <input type="checkbox"/> E <input type="checkbox"/>	OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS
MP <input type="checkbox"/> MD <input type="checkbox"/> PP <input type="checkbox"/> E <input type="checkbox"/>	OPTION 2: SHALL COMPLY WITH HCAI (OSHPO) PRE-APPROVAL (OPM #) _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.



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CONSULTANT
 RANCHO COVINA, CALIFORNIA
 MB - JV 232142.00
 PM - DESIGN TEAM PROJECT NO.

FOR REVIEW ONLY / NOT FOR CONSTRUCTION
 THE CONSTRUCTION DOCUMENTS HAVE NOT BEEN APPROVED BY THE ENFORCEMENT AGENCY AND ARE NOT COMPLETE OR READY FOR CONSTRUCTION. ELEMENTS, MEMBERS, SYSTEMS AND ASSOCIATED DETAILS AND SPECIFICATIONS MAY NOT BE SHOWN OR FULLY DEVELOPED. FOR BIDDING ESTIMATING PURPOSES, UTILIZE ADDITIONAL MATERIALS AND QUANTITIES TO ACCOUNT FOR THOSE ITEMS NOT SHOWN OR FULLY DEVELOPED.

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:
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TITLE
PLUMBING NOTES, LEGEND & ABBREVIATIONS

SHEET
P-001

EW-1 WATER HEATER SIZING
ELECTRIC TANK TYPE - KITCHEN AREA D

SYMBOL	FIXTURE NAME	QTY	USER HW TEMP	GPH EACH @ USER TEMP	GPH EACH @ WH TEMP	GPH TOTAL PER ITEM
(E) LAV	COMMERCIAL - LAVATORY	17	105.00	6.00	4.62	78.46
(E) SH	SHOWER	4	105.00	30.00	23.08	92.31
(E) MS	SERVICE SINK	2	120.00	20.00	20.00	40.00
WMB	CLOTHES WASHING MACHINE CONNECTION BOX	0.00	120.00	40.00	40.00	0.00
ESH-EW	EMERGENCY SHOWER-EYEWASH	2	68.00	345	69.00	138.00
TOTAL GPH						348.77

INLET TEMP	55.00	TANK VOL	100	GALLONS
WH TEMP	120.00	±1ST HR RECOV @ ΔT	347.91	GALLONS
TEMP DIFF, ΔT	65.00	1KW =	3412.142	BTUH
WATER HEATER EFFICIENCY	0.980			
GPH USAGE DIVERSITY FACTOR	0.75			
GPH WITH DIV FACTOR = TOTAL GPH X FACTOR	261.58			
POWER INPUT = GPH X TEMP DIFF X 8.33LBS/GAL X 1BTU/LB/F / WATER HEATER EFF				
=	144,521.25	BTUH		
=	42.35	KW		
USE =	45.00	KW		
	277.91	GPH RECOVERY EQUIV @ CONSTANT EFF @ TEMP DIFF ABV		

- NOTES:
- 1.0 USER HW TEMP VALUES SHOWN ABOVE ARE ASSUMED WARMEST BEARABLE TEMPERED WATER AT FAUCET OUTLET, SET BY USER UNLESS SHOWN OTHERWISE. SEE PLUMBING FIXTURE SCHEDULE FOR TEMP SETTING SPECIFICS AT FIXTURE OR AT POINT OF USE. TMV IF ANY.
 - 2.0 WARNING: PER ASHRAE CHAPTER 50 FIGURE 9, IT TAKES ABOUT 10 MINS TO CAUSE 3RD DEGREE BURNS USING 120F HOT WATER. FOR 140F HOT WATER, IT ONLY TAKES ABOUT 5 SECONDS TO DO SAME DAMAGE. PLEASE LIMIT HOT WATER TEMP THRU USE OF THERMOSTATIC MIXING VALVES OR USE OF INTEGRAL LIMITING DEVICE IF AVAILABLE.
 - 3.0 1ST HR RECOVERY BASED FROM 0.7xWH TANK VOLUME + PERFORMANCE GPH
 - 4.0 CPC 2022 416.1 EMERGENCY EYEWASH & SHOWER EQUIPMENT SHALL COMPLY WITH ANSI/ISEA Z358.1 (TEPID WATER 60-100°F). EMERGENCY SHOWER SHALL BE NO LESS THAN 20GPM FOR 15 MINUTES. EYEWASH NO LESS THAN 0.4GPM FOR 15 MINUTES. AND EYE-FACE WASH NO LESS THAN 3.0GPM FOR 15MINUTES.
 - 5.0 WATER TEMPERATURE FOR LAV SINKS AND HANDWASHING STATIONS COMPLYING WITH CAL RETAIL CODE SHALL BE AT LEAST 100F, BUT NOT GREATER THAN 108F. CAL RETAIL CODE 113953
 - 6.0 GPH USAGE DIVERSITY FACTOR SHALL BE EQUAL TO PEAK DEMAND X CHANCES OF PEAK DEMAND BEING REACHED
 - 7.0 GPH @ WATER HEATER TEMPERATURE = GPH@USER TEMP x (USER HW TEMP - INLET CW TEMP) / (WH TEMP - CW INLET TEMP). SEE ASPE HANDBOOK #2 EQUATION 6-6 FOR MORE INFORMATION.
 - 8.0 $Q = mc\Delta T$, $Q_H = m_H \cdot c \cdot \Delta T$, $c = \text{sp heat of fluid} = 1\text{BTU/lb}\cdot\text{F}$; 8.33lbs of H₂O = 1 Gal of H₂O; Q in BTU and Q_H in BTUH

GAS PRESSURE REGULATOR SCHEDULE

UNIT	LOCATION	"MFR" MODEL NO. SIZE	MAX LOAD < GPR MAX (MBH)	MAX INDIVIDUAL LOAD (MBH)	MIN & MAX INLET PRESSURE	OUTLET PRESSURE	NOTES
GPR H1	BLDG H POOL EQUIP RM	MAXITROL 325-11L210G 2" X 2"	3000 < 4500	1500 < 4500	1.5 PSI MIN 5 PSI MAX	7"WC	1 2 3 4 5 6 7 8

- NOTES:
1. FOR INDOOR INSTALLATION, PROVIDE VENT LIMITER ACCESSORY (CPC 1208.8.4) OR RUN VENT TO OUTDOORS IF SHOWN ON PLANS. FOR OUTDOOR INSTALLATION, PROVIDE MAXITROL VENT PROTECTOR ACCESSORY. PROVIDE MODEL WITH SUFFIX "B" IMBLUE TECHNOLOGY FOR INCREASED CORROSION RESISTANCE IF LOCATED OUTDOORS OR IN CORROSIVE ENVIRONMENTS. VENT LIMITER AND VENT PROTECTION FOR MAXITROL 325-L SERIES ARE AVAILABLE FOR MODELS 325-3 THRU 325-9 ONLY.
 2. VERIFY MINIMUM AND MAXIMUM PRESSURE REQUIRED BY APPLIANCES TO BE SERVED PRIOR TO PROCUREMENT.
 3. PROVIDE SOV ON BOTH SIDES OF GPR. GPR INLET & OUTLET SIZE SHALL BE EQUAL TO THE LARGER OF THE CONNECTING UPSTREAM OR DOWNSTREAM PIPE. SEE SITE PLAN/FLOOR PLANS FOR MORE INFORMATION.
 4. PROVIDE PIPE LENGTH OF 10 TIMES THE PIPE DIAMETER BEFORE CHANGING DIRECTION DOWNSTREAM OF GPR. SEE GPR INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.
 5. PROVIDE 1/2" GAUGE PORT WITH SOV AT THE OUTLET SIDE OF THE GAS REGULATOR. PROVIDE CAP AND SEAL AIR TIGHT.
 6. MINIMUM MBH CAPACITY ABOVE IS THE TOTAL MBH REQUIREMENT OF THE SYSTEM DOWNSTREAM OF THE GPR. ANY SUBSTITUTED PRODUCT SHALL BE ANSI Z21.80 CERTIFIED, AND SHALL BE WITHIN PARAMETERS SET FORTH ABV. SIZE OF SUBSTITUTED REGULATOR SHALL BE SIMILAR TO SIZE OF THE OUTLET PIPE.
 7. REGULATOR VENT SHALL TERMINATE AT LEAST 3FT FROM ANY SOURCE OF IGNITION. CPC 1208.8.4 (3)

ELECTRIC WATER HEATER SCHEDULE

UNIT	LOCATION	"AO SMITH" MODEL NO.	STORAGE CAPACITY GALLONS	RECOVERY GALLONS @ 100°F RISE	TEMP SETTING	KW	VOLTAGE	AMPS	WEIGHT (FULL)	PIPING DETAIL	MOUNTING DETAIL	NOTES
EW H1	BLDG H MECH RM 106	DSE-100A 45KW	100	184	140°F	45	480-3PH	54.1	1300LBS	1 P-501	8 P-501	2 x 50A CONTACTORS. PROVIDE 4" HOUSE KEEPING PAD AND DRAIN PAN. SLOPE DRAIN FROM PAN TO APPROVED RECEPTOR. SET WATER HEATER TO 140F.

CIRCULATING PUMP SCHEDULE

UNIT	LOCATION	"B&G" MODEL NO.	GPM	FT OF HEAD	WATTS	VOLTAGE	NOTES
CP H1	BLDG H MECH RM 106	NBF-12U	5	8.0	55	115V/1Ø	9.5 LBS: 0.48FLA. PROVIDE AQUASTAT TO TURN PUMP AT 115F, OFF AT 120F. PROVIDE TIMER, COORDINATE SCHEDULE WITH DISTRICT
CP H2	BLDG H MECH RM 106	NBF-12U	5	8.0	55	115V/1Ø	9.5 LBS: 0.48FLA. PROVIDE AQUASTAT TO TURN PUMP AT 115F, OFF AT 120F. PROVIDE TIMER, COORDINATE SCHEDULE WITH DISTRICT

EXPANSION TANK SCHEDULE

UNIT	LOCATION	"AMTROL" MODEL NO.	TANK VOLUME GALLONS	MAX. ACCEPT. VOLUME	DETAIL	NOTES
ET H1	BLDG H MECH RM 106	THERM-X-TROL ST-25V	10.3	10.3	-	3/4"NPTM CONNECTION, 1.5"DIAMETER. OPERATING WEIGHT 110LBS

TEMPERATURE MIXING VALVE

UNIT	LOCATION	"POWERS" MODEL NO.	CV	PSI DROP @ GPM	MIN. FLOWRATE (GPM)	MIN WALL SPACE REQ'D (LxHxDEPTH)	NOTES
TMV H1	BLDG H MECH RM 106	LF5H1434-13	19.00	5 / 42	1	16"x10"x6"	1 1/2"INLETS, 1 1/2"OUTLET, ASSE 1017 APPROVED, HI-LO COMPACT. SET OUTLET TEMP TO 130°F. SERVES LOCKER ROOMS & BOY'S SHOWERS.
TMV H2	BLDG H MECH RM 106	LF5H1434-13	19.00	5 / 42	1	16"x10"x6"	1 1/2"INLETS, 1 1/2"OUTLET, ASSE 1017 APPROVED, HI-LO COMPACT. SET OUTLET TEMP TO 110°F. SERVES GIRL'S SHOWERS.

- NOTES:
1. PRESSURE DROP = (FLOWRATE / (CV/SQ))^2. SG for water = 1
 2. MIN WALL SPACE ABOVE DOES NOT INCLUDE REQUIRED WORKING CLEARANCE AROUND VALVES. COORDINATE SHOP DRAWINGS.

ROOM EXHAUST DESIGN CALCULATION

ROOM NAME & NUMBER	ROOM AREA (SF)	MINIMUM EXHAUST RATE / AREA (CFM/SF)	MINIMUM EXHAUST RATE (CFM)	EXHAUST RATE PROVIDED (CFM)
ACID ROOM	34.5	1.5	51.7	240.0
MECHANICAL ROOM	1105.0	1.5	1657.5	1100 X 2

- NOTES:
1. EXHAUST RATE PER 2022 CMC TABLE 403.7

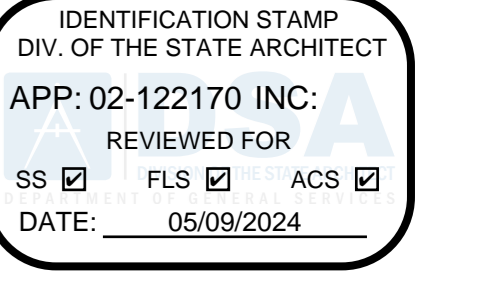
CHEMICAL ROOM EXHAUST FAN

CEF H1	"FANAM" CHEMICAL EXHAUST FAN (CEF) MODEL CBI-160, 240 CFM AT 0.5" SP. 115208 V 1PH 9.0/5.4 AMP, 0.25HP, 1725 RPM MOTOR. EXHAUST FAN WITH 8" PVC VENTING THRU ROOF. COORDINATE SHOP DRAWINGS AMONGST TRADES PRIOR TO ANY INSTALLATION. SEE DETAIL 3/P-501 AND 7/P-501. WEIGHT = 27 LBS.
CEF H2	"FANAM" CHEMICAL EXHAUST FAN (CEF) MODEL CBI-225, 1100 CFM AT 0.5" SP. 115208 V 1PH 5.4/2.8 AMP, 0.25HP, 1725 RPM MOTOR. EXHAUST FAN WITH 10" PVC VENTING THRU ROOF. COORDINATE SHOP DRAWINGS AMONGST TRADES PRIOR TO ANY INSTALLATION. SEE DETAIL 3/P-501 AND 7/P-501. WEIGHT = 62 LBS.

PLUMBING FIXTURE SPECIFICATION & CONNECTION SCHEDULE

ADA	SYMBOL	FIXTURE	FIXTURE MANUFACTURER AND MODEL No.	FAUCET OR VALVE MANUFACTURER AND MODEL No.	TRIM MANUFACTURER AND MODEL No.	REMARKS	VENT	WASTE		COLD WATER		HOT WATER	
								BRANCH	OUTLET	BRANCH	OUTLET	BRANCH	OUTLET
	BFP-1	BACKFLOW PREVENTER POOL SYSTEM	"ZURN" WILKINS 375 PROVIDE AIR GAP AND DRAIN TO NEAREST APPROVED RECEPTOR.										
	BFP-2	BACKFLOW PREVENTER BOILER - MAKE-UP WATER	"ZURN" WILKINS 975XL2. PROVIDE AIR GAP AND DRAIN TO NEAREST APPROVED RECEPTOR.										
	FS	FLOOR SINK	MECHANICAL SPACES - ZURN MODEL ZN-1901-KC-2, OR EQUAL, 12 INCH x 12 INCH x 8 INCH DEEP, A.R.E. INTERIOR WITH NICKEL BRONZE RIM, HALF GRATE AND DOME STRAINER. OTHER APPROVED EQUAL MANUFACTURERS INCLUDE: JAY R. SMITH, WATTS & MIFAB.	PROVIDE SEEPAGE PAN WITH CLAMPING COLLAR.		COORDINATE & PROVIDE GRATES AS REQUIRED PER KITCHEN DRAWINGS	2" 3"	2" 3"	2" 3"	- -	- -	- -	- -
	FD	FLOOR DRAIN	GENERAL SERVICE FD - ZURN MODEL Z-115, OR EQUAL, WITH TYPE "B" STRAINER FOR EXPOSED CONCRETE AND TYPE "S" STRAINER FOR TILE FLOOR. PROVIDE BRONZE TRIM.				2"	2"	2"	-	-	-	-
	TP	TRAP PRIMER	MIFAB "M-500" SERIES, REQUIRES 3PSI DROP TO ACTIVATE.			PROVIDE ACCESS PANEL SEE DETAIL 6/P-502	-	-	-	1/2"	1/2"	-	-
	TP-2	ELEC TRAP PRIMER	SIoux CHIEF 695-E501 ELECTRONIC TRAP PRIMER, PROVIDE DISTRIBUTION SPLITTER TO PRIME UP TO 8 DRAINS. PROVIDE 120VAC 9.2WATTS 60HZ POWER SUPPLY.				-	-	-	1/2"	1/2"	-	-
	HB	HOSE BIBB	INTERIOR WALL MOUNTED - ACORN MODEL 8121CP-LF WOODFORD MODEL 24PC, OR EQUAL. ROOF MOUNTED - WOODFORD MODEL RHMC-MS WITH INTEGRAL UNDERDECK FLANGE, OR EQUAL. ROOF MOUNTED ON PARAPET OR SIDE OF AC UNIT - ACORN MODEL 8121CR-LF OR WOODFORD MODEL 24CH, OR EQUAL.	WITH INTEGRAL VACUUM BREAKER PROTECTED. CARTRIDGE OPERATED HOSE VALVE WITH LOCK SHIELD BONNET AND REMOVABLE KEY HANDLE.		SET HEIGHT AT 18" ABOVE FINISHED FLOOR OR AS INDICATED ON ARCHITECTURAL DRAWINGS	-	-	-	1"	3/4"	-	-
	WH	WALL HYDRANT COLD WATER ONLY	EXTERIOR WALL MOUNTED RECESSED WOODFORD MODEL 885 OR EQUAL.	WITH INTEGRAL VACUUM BREAKER PROTECTED. CARTRIDGE OPERATED HOSE VALVE WITH LOCK SHIELD BONNET AND LOOSE KEY OPERATION.		SET HEIGHT AT 18" ABOVE FINISHED FLOOR OR AS INDICATED ON ARCHITECTURAL DRAWINGS	-	-	-	1"	3/4"	-	-
	WHA	WATER HAMMER ARRESTOR	SEE SPECIFICATIONS										

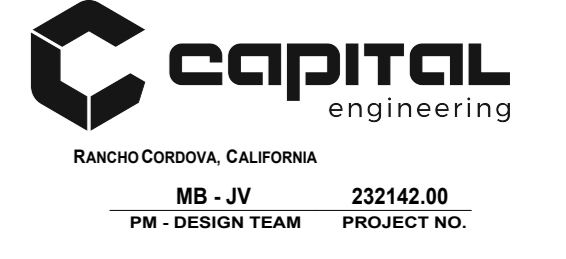
- GENERAL NOTES:
1. WATER SUPPLIES AND STOPS:
 - A. PROVIDE 85 PERCENT IPS RED BRASS PIPE, SECURELY ANCHORED TO BUILDING CONSTRUCTION, FOR EACH CONNECTION TO FAUCETS, STOPS, HOSE BIBBS, ETC. EACH FIXTURE, EXCEPT HOSE BIBBS, SHALL HAVE A STOP VALVE INSTALLED ON WATER SUPPLY LINES TO PERMIT REPAIRS WITHOUT SHUTTING OFF WATER MAINS.
 - B. PROVIDE ALL WATER SUPPLIES TO FIXTURES WITH COMPRESSION SHUT-OFF STOPS WITH IPS INLETS WITH THREADED BRASS NIPPLES AT PIPE CONNECTION AND LOCK SHIELD LOOSE KEY. PROVIDE COMBINATION FIXTURES WITH COMPRESSION STOP AND IPS INLET ON EACH WATER SUPPLY FITTING. PROVIDE LOOSE KEY HANDLE FOR EACH STOP.
 - C. PROVIDE 1/2 INCH RISER TUBES WITH REDUCING COUPLING FOR ALL FIXTURES, UNLESS OTHERWISE NOTED. REFER TO SPECIFICATION SECTION 22 40 00.
 2. PIPE, PLUMBING FITTINGS, FIXTURES, SOLDER AND FLUX SHALL COMPLY WITH LEAD FREE REQUIREMENTS OF THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 116875. PROVIDE PRODUCTS LISTED AND LABELED AS COMPLYING WITH NSF 61, ANNEX G, OR PROVIDE OTHER EVIDENCE OF COMPLIANCE WITH THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 116875. PROVIDE PRODUCT SUBMITTAL INFORMATION PROVING COMPLIANCE WITH LEAD FREE REQUIREMENTS. ALSO SEE GENERAL NOTE 22 ON SHEET P0.1 AND SPECIFICATION SECTIONS, 22 00 50, 22 10 00 AND 22 40 00.



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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
PLUMBING EQUIPMENT SCHEDULE

SHEET
P-002

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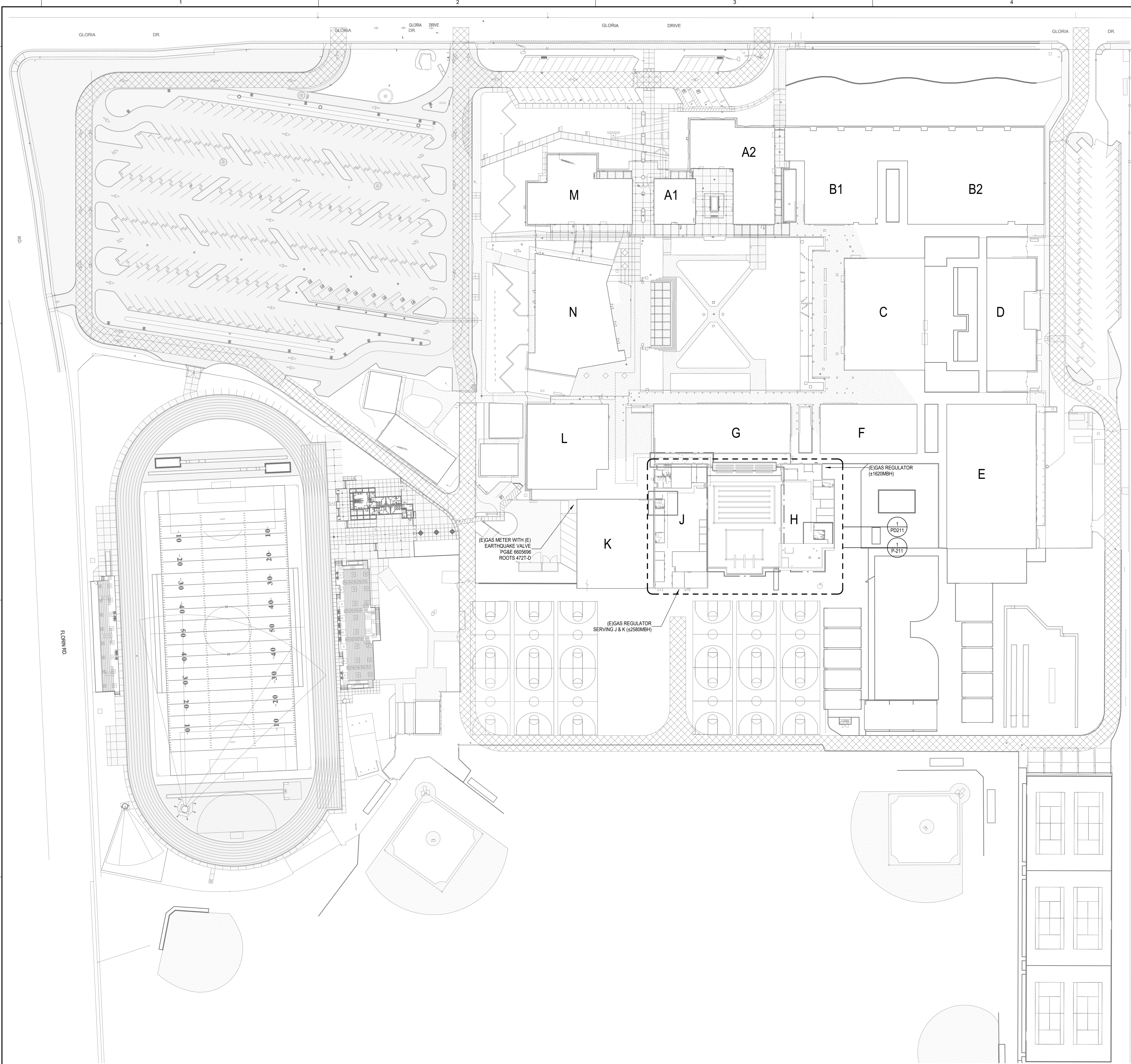
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1 PLUMBING SITE PLAN
 P-101 SCALE: 1" = 50'-0"

PLUMBING SHEET NOTES:

1. ANY MATERIAL REQUIRED FOR WORK NOT READILY AVAILABLE FOR PURCHASE SHALL HAVE LEAD TIME INDICATED ON THE BID AND ON THE SUBMITTALS. SUCCESSFUL PROCUREMENT OF ALL MATERIALS REQUIRED FOR THE COMPLETION OF WORK SHALL BE ASCERTAINED BY CONTRACTOR PRIOR TO SCHEDULING OF WORK.
2. EXISTING PLUMBING LAYOUT ARE BASED FROM AVAILABLE RECORD DRAWINGS OF UNKNOWN ACCURACY. ACTUAL CONDITIONS MAY BE DIFFERENT ESPECIALLY FOR THOSE WITHIN CONCEALED SPACES AND/OR UNDERGROUND. CONTRACTOR SHALL INVESTIGATE EXISTING PIPE ROUTE, ELEVATION, SIZE AND CONDITION THRU VISUAL OBSERVATIONS, POT-HOLING, RADAR INSPECTION OR OTHER MEANS NECESSARY TO COMPLETE WORK. WELL AHEAD OF NEW PIPE INSTALLATION. SCHEDULE WORK ACCORDINGLY TO PROVIDE ENOUGH TIME TO FIND SOLUTIONS SHOULD VERIFIED INFORMATION BE DIFFERENT FROM HEREWITH. REFLECT ALL FINDINGS ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES, AND ON AS-BUILT DRAWINGS.
3. FOR CONNECTIONS TO EXISTING PIPE FOUND SMALLER THAN WHAT IS SHOWN ON PLANS. FIELD VERIFY TO LOCATE & CONNECT TO CLOSEST LARGEST PIPE UPSTREAM FOR SUPPLY PIPING. FOR DRAIN PIPING, FIELD VERIFY TO LOCATE & CONNECT TO CLOSEST LARGEST PIPE OF SUFFICIENT DEPTH DOWNSTREAM. REFLECT ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES.
4. CONTRACTOR SHALL PREPARE AND MAINTAIN AS-BUILT DRAWINGS OF ALL PLUMBING SYSTEMS AS INSTALLED AT THE JOB SITE. DRAWN BY CONTRACTOR OVER THE DESIGN PLANS. THEY SHALL BE READILY AVAILABLE TO VIEW & INSPECT UPON REQUEST BY PROJECT INSPECTOR, ENGINEER OR OWNER. AS-BUILTS SHALL CLEARLY SHOW CHANGES, REVISIONS, CLARIFICATIONS & SUBSTITUTIONS INSTALLED IN THE PROJECT INCLUDING BUT NOT LIMITED TO: EXACT PIPE ROUTE ESPECIALLY THOSE CONCEALED AND/OR UNDERGROUND. UNDERGROUND PIPE ELEVATIONS, PIPE SIZES, DIMENSIONS FROM WALLS/GRID LINES OF ANY REROUTED PIPE. RFI/CC/ASI TAG AS REFERENCE TO WHERE CHANGES OCCURRED FROM IF ANY. AND ANY INFORMATION THAT MAY CLARIFY HOW SYSTEMS & COMPONENTS HAD BEEN INSTALLED OR HOW IT DIFFERS FROM ORIGINAL DESIGN PLANS. REFERENCE TO AN RFI/CC/ASI ALONE SHALL NOT CONSTITUTE COMPLETE AS-BUILT DRAWINGS. AS-BUILT DRAWINGS SHALL BE IN HARD COPY AND DIGITAL (PDF) FORMAT. AS-BUILTS AND QUALITY OF SUCH ARE CRITICAL REQUIREMENTS FOR MAINTENANCE UPKEEP AND FOR USE AS BASIS FOR POSSIBLE FUTURE CONSTRUCTION IMPROVEMENTS WHERE SUCH COMPLETELY RELIES ON CONTRACTOR SHALL PROVIDE "AS-BUILT" TAG AND CONTRACTOR INFORMATION ON ALL AS-BUILT SHEETS.
5. REFER TO CIVIL DRAWINGS, ELECTRICAL & ALL OTHER DISCIPLINE DRAWINGS WITH SITE PLAN FOR LOCATION OF OTHER UTILITIES, LOCATION OF TREES, GRADING AND PAVING INFORMATION, AND OTHER INFORMATION THAT MAY AFFECT WORK. COORDINATE EXACT ROUTE THRU SHOP DRAWINGS AMONGST TRADES CONCERNED AT SITE.
6. FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AT SITE. REROUTE ANY PIPING THAT MAY CONFLICT WITH NEW CONSTRUCTION. COORDINATE AMONGST TRADES.
7. ALL EXISTING FACILITIES TO REMAIN SHALL BE IN OPERATION DURING TIME OF CONSTRUCTION. PROVIDE TEMPORARY VALVES, PIPING, FITTINGS, GAS METERS, BACKFLOW DEVICES, ETC. AND ANY TEMPORARY STRUCTURE THAT MAY BE REQUIRED FOR THE INSTALLATION OF TEMPORARY FACILITIES.
8. COORDINATE CONSTRUCTION WORK AND SCHEDULE OF WORK WITH SCHOOL DISTRICT. CONTRACTOR SHALL INCLUDE IN BID MEANS AND/OR METHODS REQUIRED FOR THE WORK INCLUDING ANY REQUIRED SERVICE SHUT DOWNS, TEMPORARY LINES, ROAD CLOSURES, SPECIAL INSPECTIONS, ETC. TO ACCOMPLISH SCOPE. SCHEDULING OF WORK SHALL BE AMICABLE BETWEEN OWNER AND CONTRACTOR.
9. PROVIDE SLEEVES ON ANY GAS PIPING RUNNING UNDERGROUND BENEATH ANY SHADE STRUCTURE WITH INTEGRAL SLAB. SEE STRUCTURAL DRAWINGS AND GEO-TECHNICAL REPORT IF ANY. FOR TRENCHING BETWEEN/AROUND STRUCTURES FOUNDATION.
10. CONTRACTOR SHALL FOLLOW GENERAL PIPE ROUTE AND VALVE LOCATIONS, AND GENERAL ORDER OF SYSTEM COMPONENTS SHOWN ON PLANS. ADJUST PIPE ELEVATIONS OR ROUTING TO AVOID STRUCTURAL COMPONENTS & OTHER BUILDING COMPONENTS WHEN POSSIBLE. IF NECESSARY & IF AMICABLE BETWEEN TRADES COORDINATE ALL SHOP DRAWINGS AMONGST TRADES PRIOR TO ANY PIPE FABRICATION OR INSTALLATION.

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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

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TITLE
PLUMBING SITE PLAN

SHEET
P-101

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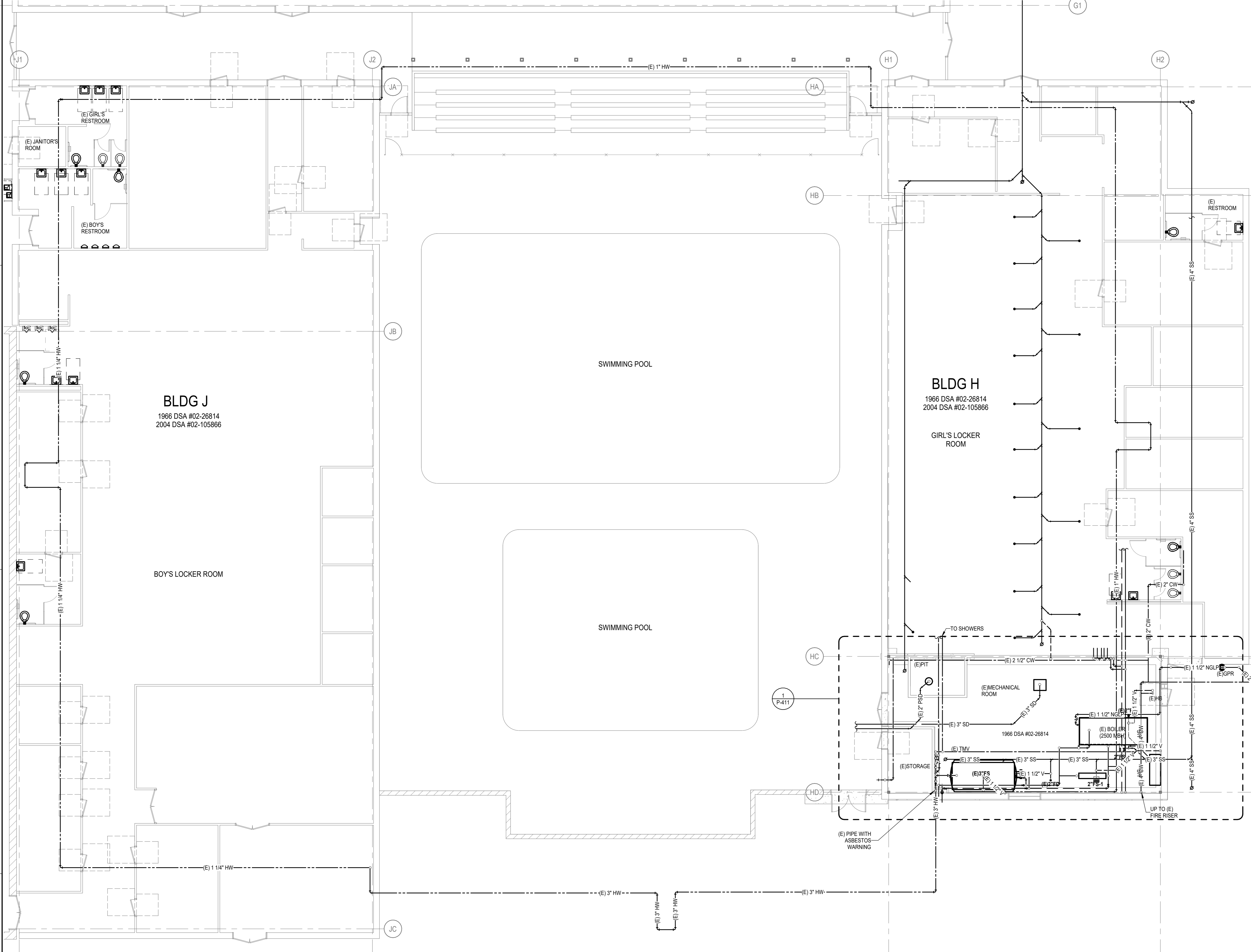
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BLDG G
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2004 DSA #02-105866

BLDG J
1966 DSA #02-26814
2004 DSA #02-105866

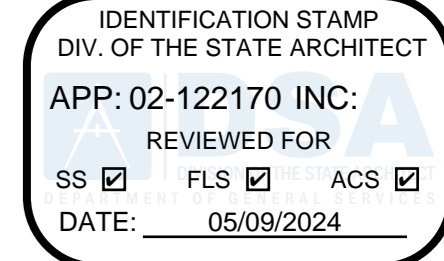
BLDG H
1966 DSA #02-26814
2004 DSA #02-105866



1 PLUMBING DEMO PLAN
PD211 SCALE: 1/8" = 1'-0"

PLUMBING DEMO SHEET NOTES:

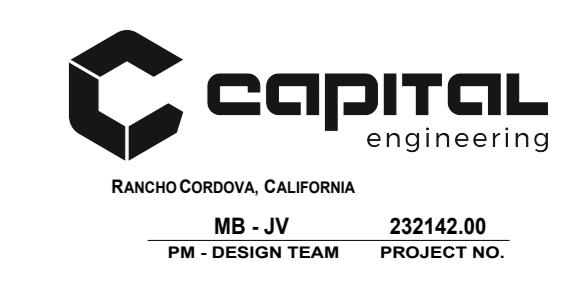
- ALL WORK FOR THE REMOVAL OF HAZARDOUS MATERIALS SHALL BE FULLY COORDINATED BETWEEN THE CONTRACTOR AND THE OWNER, THE ARCHITECT AND ENGINEERS THAT HAVE CREATED THE DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT ARE NOT RESPONSIBLE FOR SPECIFYING REQUIREMENTS FOR, OR CONSTRUCTION OBSERVATION OF, HAZARDOUS MATERIAL REMOVAL. THE OWNER SHALL PROVIDE SEPARATE DOCUMENTS REQUIRED FOR HAZARDOUS MATERIAL REMOVAL AND SEPARATE CONSTRUCTION OBSERVATION OF HAZARDOUS MATERIAL REMOVAL. CONTACT OWNER FOR MORE INFORMATION.
- EXISTING PLUMBING LAYOUT SHOWN HERewith ARE BASED FROM AVAILABLE RECORD DRAWINGS OF UNKNOWN ACCURACY. ACTUAL CONDITIONS MAY BE DIFFERENT ESPECIALLY FOR THOSE WITHIN CONCEALED SPACES AND/OR UNDERGROUND. CONTRACTOR SHALL INVESTIGATE EXISTING PIPE ROUTE, ELEVATION, SIZE AND CONDITION, THRU VISUAL OBSERVATIONS, POT-HOLING, RADAR INSPECTION OR OTHER MEANS NECESSARY TO COMPLETE WORK, WELL AHEAD OF NEW PIPE INSTALLATION. SCHEDULE WORK ACCORDINGLY TO PROVIDE ENOUGH TIME TO FIND SOLUTIONS SHOULD VERIFIED INFORMATION BE DIFFERENT FROM HERewith. REFLECT ALL FINDINGS ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES, AND ON AS-BUILT DRAWINGS.
- SHOULD EXISTING PIPE BE FOUND SMALLER THAN WHAT IS SHOWN ON PLANS, FIELD VERIFY LOCATION OF CLOSEST LARGEST PIPE UPSTREAM FOR SUPPLY PIPING, AND CLOSEST LARGEST PIPE DOWNSTREAM FOR DRAIN PIPING. REFLECT ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES.
- CONTRACTOR SHALL REFLECT EXISTING AND/OR ABANDONED PIPING ON THE AS-BUILT DRAWINGS IF FOUND DIFFERENTLY FROM DESIGN PLANS FOR OWNER'S REFERENCE AND RECORD KEEPING.
- UNLESS NOTED OTHERWISE, CONTRACTOR SHALL REMOVE ALL INACTIVE PLUMBING PIPING ENCOUNTERED/VISIBLE WITHIN WORK AREA. CAP BEHIND ARCHITECTURAL FINISHES. REFLECT CAP LOCATIONS ON AS-BUILT DRAWINGS.
- PATCH ALL UNUSED WALL & ROOF PENETRATIONS TO MATCH EXISTING. SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
- PROVIDE SLABWALL DEMOLITION WORK AS NECESSARY TO REMOVE, REPLACE, REROUTE OR ADD PIPING. PATCH BACK TO MATCH EXISTING.
- REUSE EXISTING SLEEVE PENETRATIONS THRU DECK WHEN NEEDED, IF AVAILABLE AND IF POSSIBLE. AVOID REPAIRS WHEN PROVIDING NEW SLEEVE PENETRATIONS. INVESTIGATE AND MARK REPAIR LOCATIONS PRIOR TO CORING OR SAWCUTTING THRU EXISTING OR INSTALLED SLAB, WALL OR FOOTING. SEAL ALL PENETRATIONS, SEE SPECIFICATIONS FOR MORE INFORMATION. USE ALL GATHERED DATA IN PROVIDING SHOP DRAWINGS. SHOP DRAWINGS SHALL BE COORDINATED BETWEEN TRADES.
- WHEN CONNECTING TO EXISTING UTILITIES, CONTRACTOR TO ENSURE THAT THE EXISTING PIPE IS ACTIVE PRIOR TO CONNECTION. FIELD VERIFY AT SITE. FOR DRAIN LINES, USE PIPE CAMERA. REPORT BACK FOR ANY ISSUES.
- PROVIDE TEMPORARY UTILITIES TO ALL FIXTURES & EQUIPMENT TO REMAIN IN SERVICE DURING CONSTRUCTION PERIOD.
- COORDINATE CONSTRUCTION WORK AND SCHEDULE OF WORK WITH SCHOOL DISTRICT. CONTRACTOR SHALL INCLUDE IN BID MEANS AND/OR METHODS REQUIRED FOR THE WORK INCLUDING ANY REQUIRED SERVICE SHUT DOWNS, TEMPORARY LINES, ROAD CLOSURES, SPECIAL INSPECTIONS, ETC. TO ACCOMPLISH SCOPE. SCHEDULING OF WORK SHALL BE AMICABLE BETWEEN OWNER AND CONTRACTOR.



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SEAL



PROJECT
JOHN F KENNEDY HIGH SCHOOL
SWIMMING POOL UPGRADE

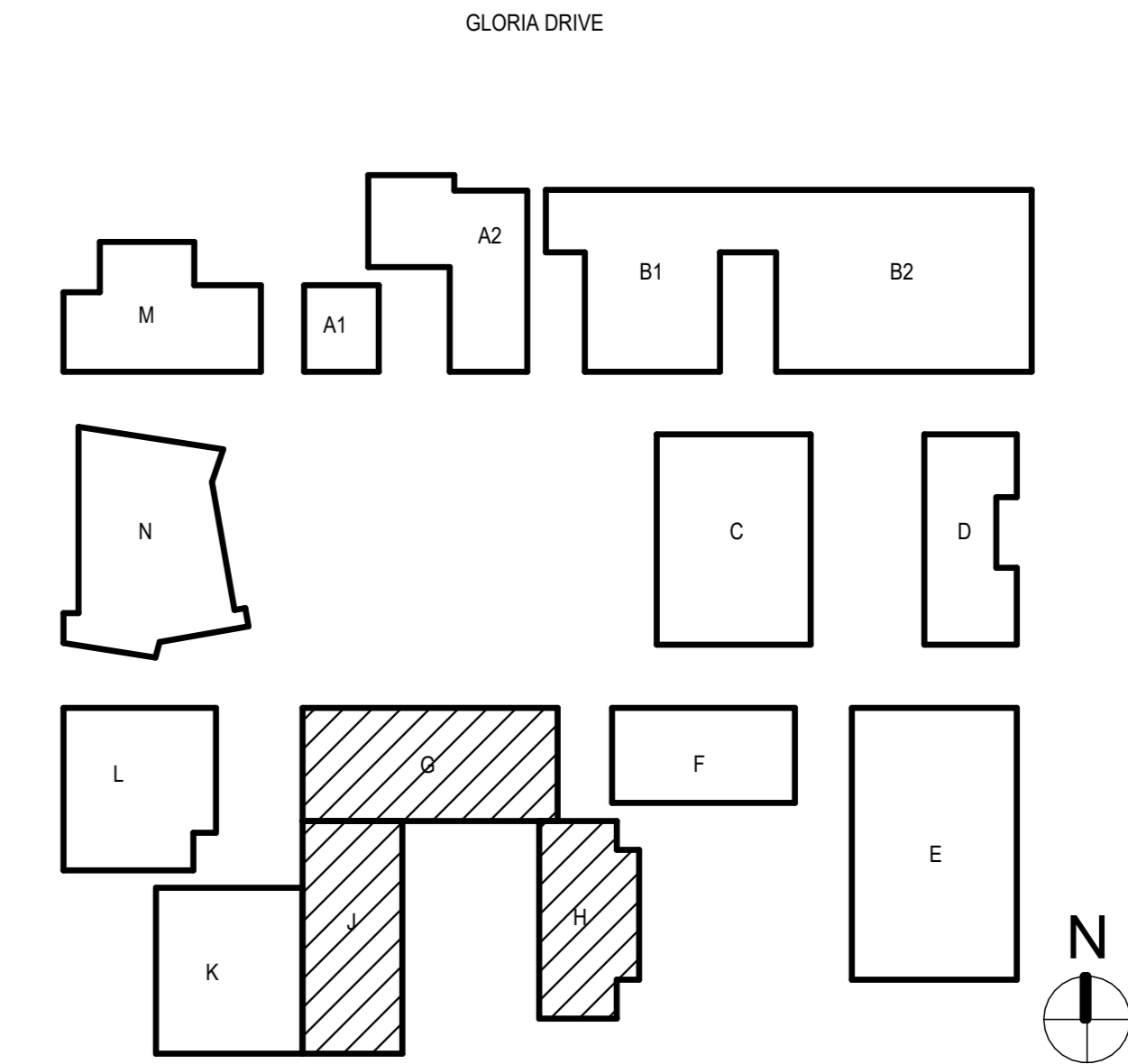
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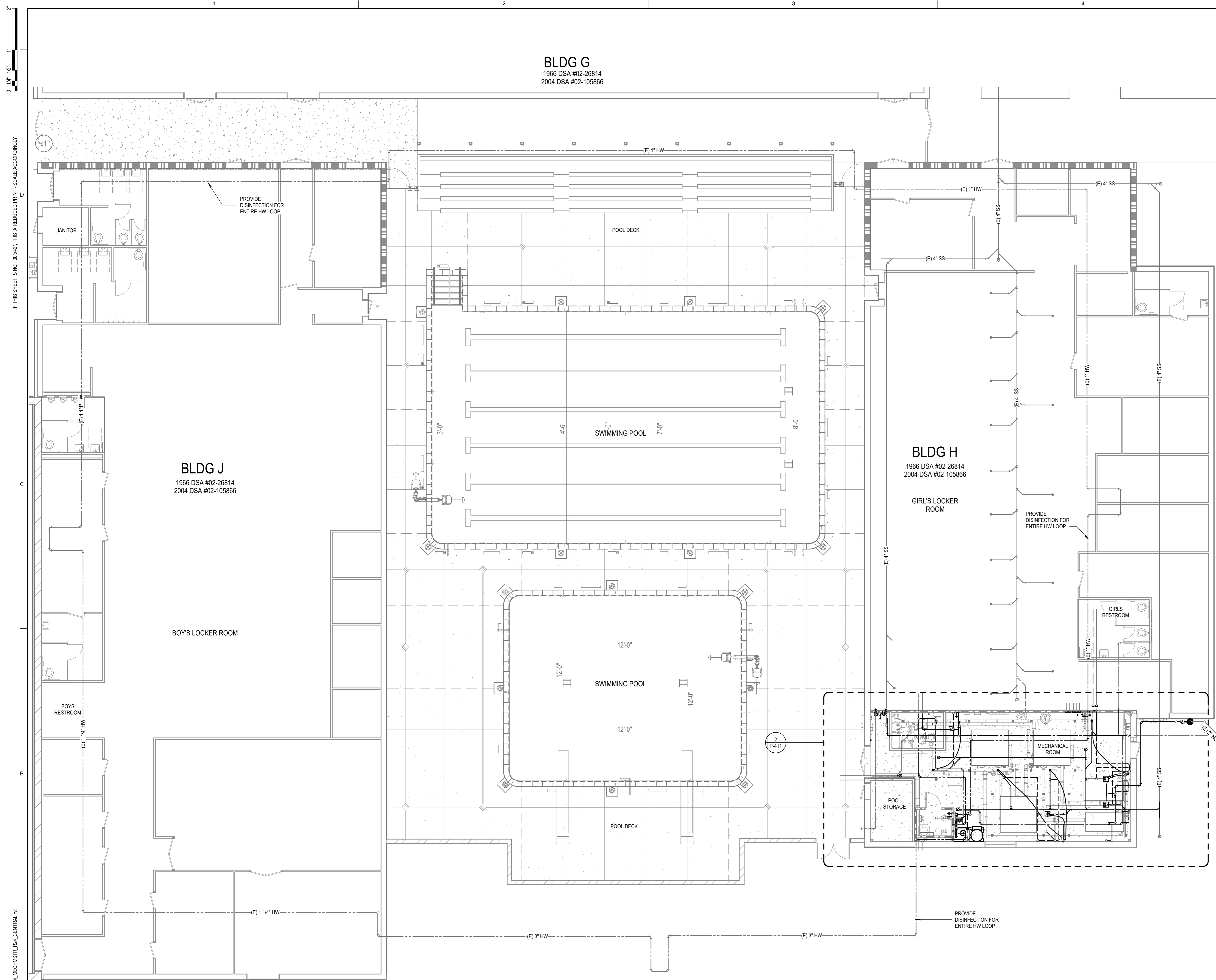
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KEYPLAN



TITLE
PLUMBING DEMO PLAN

SHEET
PD211



BLDG G
1966 DSA #02-26814
2004 DSA #02-105866

BLDG J
1966 DSA #02-26814
2004 DSA #02-105866

BLDG H
1966 DSA #02-26814
2004 DSA #02-105866

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

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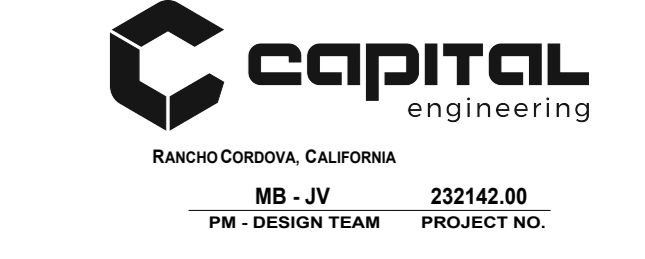
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- ANY MATERIAL REQUIRED FOR WORK NOT READILY AVAILABLE FOR PURCHASE SHALL HAVE LEAD TIME INDICATED ON THE BID AND ON THE SUBMITTALS. SUCCESSFUL PROCUREMENT OF ALL MATERIALS REQUIRED FOR THE COMPLETION OF WORK SHALL BE ASCERTAINED BY CONTRACTOR PRIOR TO SCHEDULING OF WORK.
- ALL FINISH FLOOR ELEVATIONS (FF) BASED FROM CIVIL GRADING DRAWINGS. PLEASE REFER TO CIVIL DRAWINGS FOR MORE INFORMATION. SEE VALUES ARE ALL BASED FROM FINISH FLOOR ELEVATION INSIDE BUILDING. COORDINATE EXACT ELEVATIONS THRU SHOP DRAWINGS AND AT SITE.
- EXISTING PLUMBING LAYOUT ARE BASED FROM AVAILABLE RECORD DRAWINGS OF UNKNOWN ACCURACY. ACTUAL CONDITIONS MAY BE DIFFERENT ESPECIALLY FOR THOSE WITHIN CONCEALED SPACES AND/OR UNDERGROUND. CONTRACTOR SHALL INVESTIGATE EXISTING PIPE ROUTE, ELEVATION, SIZE AND CONDITION, THRU VISUAL OBSERVATIONS, MEASUREMENTS, AND/OR OTHER MEANS NECESSARY TO COMPLETE WORK. WELL AHEAD OF NEW PIPE INSTALLATION. SCHEDULE WORK ACCORDINGLY TO PROVIDE ENOUGH TIME TO FIND SOLUTIONS SHOULD VERIFIED INFORMATION BE DIFFERENT FROM HEREWITH. REFLECT ALL FINDINGS ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES, AND ON AS-BUILT DRAWINGS.
- SEE PREVIOUS AS-BUILT DRAWINGS FOR CONTINUATION OF EXISTING PLUMBING UTILITIES OUTSIDE OF THIS PROJECT'S SCOPE FOR REFERENCE.
- FOR CONNECTIONS TO EXISTING PIPE FOUND SMALLER THAN WHAT IS SHOWN ON PLANS, FIELD VERIFY TO LOCATE CLOSEST LARGEST PIPE UPSTREAM FOR SUPPLY PIPING. FOR DRAIN PIPING, FIELD VERIFY TO LOCATE CLOSEST LARGEST PIPE OF SUFFICIENT DEPTH DOWNSTREAM. REFLECT ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES.
- PROVIDE TEMPORARY UTILITIES TO ALL FIXTURES & EQUIPMENT TO REMAIN IN SERVICE DURING CONSTRUCTION PERIOD.
- COORDINATE CONSTRUCTION WORK AND SCHEDULE OF WORK WITH SCHOOL DISTRICT. CONTRACTOR SHALL INCLUDE IN BID MEANS AND/OR METHODS REQUIRED FOR THE WORK INCLUDING ANY REQUIRED SERVICE SHUT DOWNS, TEMPORARY LINES, ROAD CLOSURES, SPECIAL INSPECTIONS, ETC. TO ACCOMPLISH SCOPE. SCHEDULING OF WORK SHALL BE AMICABLE BETWEEN OWNER AND CONTRACTOR.
- CONTRACTOR SHALL FOLLOW GENERAL PIPE ROUTE AND VALVE LOCATIONS, AND GENERAL ORDER OF SYSTEM COMPONENTS SHOWN ON PLANS. ADJUST PIPE ELEVATIONS OR ROUTING TO AVOID STRUCTURAL COMPONENTS & OTHER BUILDING COMPONENTS WHEN POSSIBLE. IF NECESSARY & ONCE AMICABLE BETWEEN TRADES, COORDINATE ALL SHOP DRAWINGS AMONGST TRADES PRIOR TO ANY PIPE FABRICATION OR INSTALLATION.
- CONTRACTOR SHALL PREPARE AND MAINTAIN AS-BUILT DRAWINGS OF ALL PLUMBING SYSTEMS AS INSTALLED AT THE JOB SITE. DRAWN BY CONTRACTOR OVER THE DESIGN PLANS. THEY SHALL BE READILY AVAILABLE TO VIEW & INSPECT UPON REQUEST BY PROJECT INSPECTOR, ENGINEER OR OWNER. AS-BUILTS SHALL CLEARLY SHOW CHANGES, REVISIONS, CLARIFICATIONS & SUBSTITUTIONS INSTALLED IN THE PROJECT INCLUDING BUT NOT LIMITED TO: EXACT PIPE ROUTE ESPECIALLY THOSE CONCEALED AND/OR UNDERGROUND, UNDERGROUND PIPE ELEVATIONS, PIPE SIZES, DIMENSIONS FROM WALL/GRID LINES OF ANY REROUTED PIPE, RFI/CDC/ASI TAG AS REFERENCE TO WHERE CHANGES OCCURRED FROM IF ANY, AND ANY INFORMATION THAT MAY CLARIFY HOW SYSTEMS & COMPONENTS HAD BEEN INSTALLED OR HOW IT DIFFERS FROM ORIGINAL DESIGN PLANS. REFERENCE TO AN RFI/CDC/ASI ALONE SHALL NOT CONSTITUTE COMPLETE AS-BUILT DRAWINGS. AS-BUILT DRAWINGS SHALL BE IN HARD COPY AND DIGITAL (PDF) FORMAT. AS-BUILTS AND QUALITY OF SUCH ARE CRITICAL REQUIREMENTS FOR MAINTENANCE UPKEEP AND FOR USE AS BASIS FOR POSSIBLE FUTURE CONSTRUCTION IMPROVEMENTS. FUTURE DESIGNER/CONTRACTOR WOULD RELY ON CONTRACTOR SHALL PROVIDE "AS-BUILT" TAG AND CONTRACTOR INFORMATION ON ALL AS-BUILT SHEETS.
- CONNECT WASTE, VENT & COLD WATER LINES TO ALL NEW FIXTURES. SEE FIXTURE SCHEDULE FOR BRANCH AND FIXTURE OUTLET/INLET CONNECTION SIZES.
- HORIZONTAL DRAINAGE PIPING SHALL BE RUN IN PRACTICAL ALIGNMENT AND A UNIFORM SLOPE OF NOT LESS THAN 2% TOWARD THE POINT OF DISPOSAL UNLESS IMPRACTICAL DUE TO BUILDING'S STRUCTURAL FEATURES, OR IF CONNECTING TO EXISTING PIPE AT ITS EXISTING UPSTREAM/DOWNSTREAM DEPTH IS IMPOSSIBLE WITHOUT SLOPING LESS THAN 2%. IN SUCH CONDITIONS, PIPE CAN BE SLOPED AT NO LESS THAN 1%. COORDINATE SHOP DRAWINGS AMONGST TRADES PRIOR TO FABRICATION AND INSTALLATION THEN REFLECT ALL CHANGES ON THE AS-BUILT DRAWINGS.
- COORDINATE ALL CONNECTION POINTS AMONGST TRADES AT SITE PRIOR TO FABRICATION OR INSTALLATION.
- UNLESS INSIDE UTILITY ROOMS, ALL OVERHEAD PIPING INSIDE ROOM WITH AN EXPOSED CEILING SHALL HAVE THE PIPING INSTALLED AS HIGH AS POSSIBLE. FULLY COORDINATE AMONGST TRADES.
- ALL PUMPED CONDENSATE DRAIN LINES (PCD) SHALL SLOPE AND DISCHARGE DOWN TO A GRAVITY CD BY A MINIMUM OF 8" TO AVOID BACKFLOW TO MECH UNIT.
- SEDIMENT TRAPS ON A GAS CONNECTION SHALL BE INSTALLED AS ILLUSTRATED ON CPC FIGURE 1212.9 OF THE 2022 CPC. INCOMING GAS FLOW SHALL ALWAYS COME FROM THE TOP TO ALLOW SEDIMENTS SETTLE IN DOWN IN THE TRAP. A TEE BEFORE TRAP SHALL SERVE AS THE BRANCH CONNECTING TO THE APPLIANCE.
- ALL VALVES ABOVE CEILING, ACCESSIBLE THRU ACCESS PANELS WITH AN OPENING OF NO MORE THAN 14"X14", SHALL BE WITHIN ARMS REACH FROM THE ACCESS PANEL OPENING.
- PRIME AND PAINT ALL EXPOSED PIPING TO MATCH ARCHITECTURAL FINISH. KEEP PAINT OFF OF TAGS AND MARKS IDENTIFYING SYSTEM, SIZE, MODEL OR OTHER IMPORTANT INFORMATION.
- PROTECT ALL INSTALLED DRAINS, DRAIN STRAINERS, EQUIPMENT COMPONENTS, FIXTURES ESPECIALLY THOSE WITH STAINLESS STEEL SURFACES FROM DAMAGE. PLUMBING SYSTEM SHALL BE CLEAN, UNDAMAGED, WORKING AND IN NEW CONDITION UP TO HAND OFF TO OWNER. SEE SPECIFICATIONS FOR MORE INFORMATION ON CLOSING DCC.
- NO EXPOSED PIPING SHALL BE LEFT TO RUST OR SUBJECTED TO CONDITIONS DETRIMENTAL TO THE PIPE WITHOUT PROVIDING PROTECTION, TEMPORARY OR OTHERWISE, SUITABLE FOR THE TYPE OF PIPE BEING PROTECTED.
- CLOSELY COORDINATE PENETRATIONS THRU STRUCTURAL MEMBERS AMONGST TRADES AT THE SITE THRU SHOP DRAWINGS PRIOR TO CONSTRUCTION. PENETRATION THRU CONCRETE FOUNDATION SHALL BE PROPERLY SLEEVED WHEN REQUIRED. COORDINATE DROPPING FOOTING IF REQUIRED. ALL NOTCHES AND HOLES SHALL BE NEATLY BORED. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION. <<LOOK FOR THAT JOB>>
- THERE SHALL BE NO PIPING WITHIN ELECTRICAL EQUIPMENT'S DEDICATED SPACE. ELECTRICAL EQUIPMENT SUCH AS PANEL BOARDS, SWITCHBOARDS AND MOTOR CONTROL CENTERS LOCATED INDOORS MUST HAVE EXCLUSIVE DEDICATED SPACE FROM THE FLOOR UPWARD TO YET ABOVE THE EQUIPMENT. THE TOOTH AND DEPTH OF THE EQUIPMENT. COORDINATE SHOP DRAWINGS AMONGST TRADES LOCATING ALL ELECTRICAL EQUIPMENT PRIOR TO ANY PIPE INSTALLATION. THERE SHALL ALSO BE NO PIPING ABOVE THE DEDICATED SPACE UNLESS PROTECTION IS PROVIDED FOR EQUIPMENT SHOULD THE PIPING LEAK OR BREAK.
- CONTRACTOR TO AVOID GROUNDING ELECTRICAL HARDWARES SUCH AS TELEPHONES TO AVAILABLE WATER LINES, WHEN POSSIBLE TO AVOID METALLIC TASTE IN WATER FROM DRINKING FOUNTAINS.

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

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CONSULTANT



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

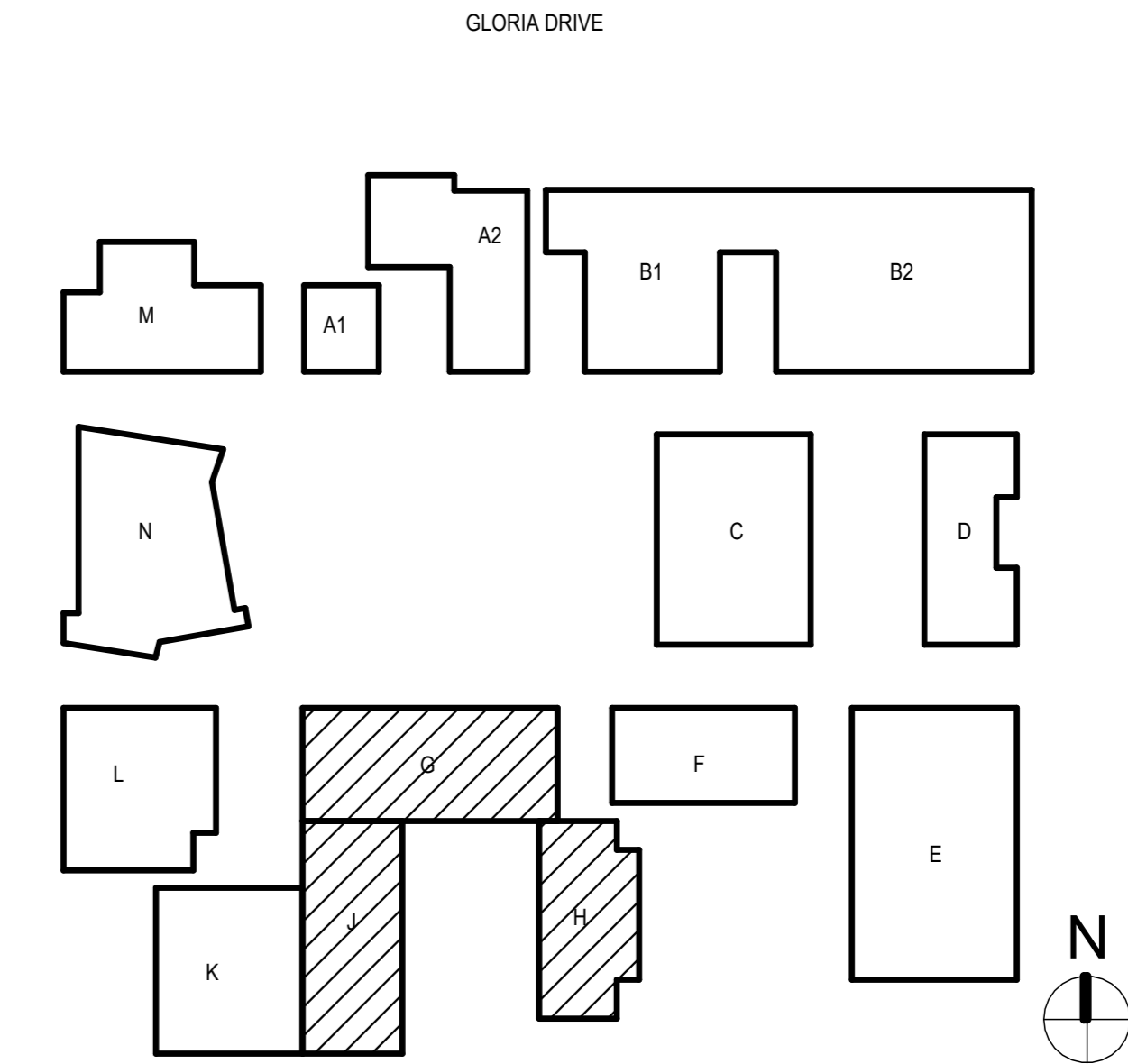
6715 GLORIA DR
SACRAMENTO, CA 95831

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION

MANAGEMENT
LIONAKIS PROJECT NO: 023284
CLIENT PROJECT NO:
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KEYPLAN



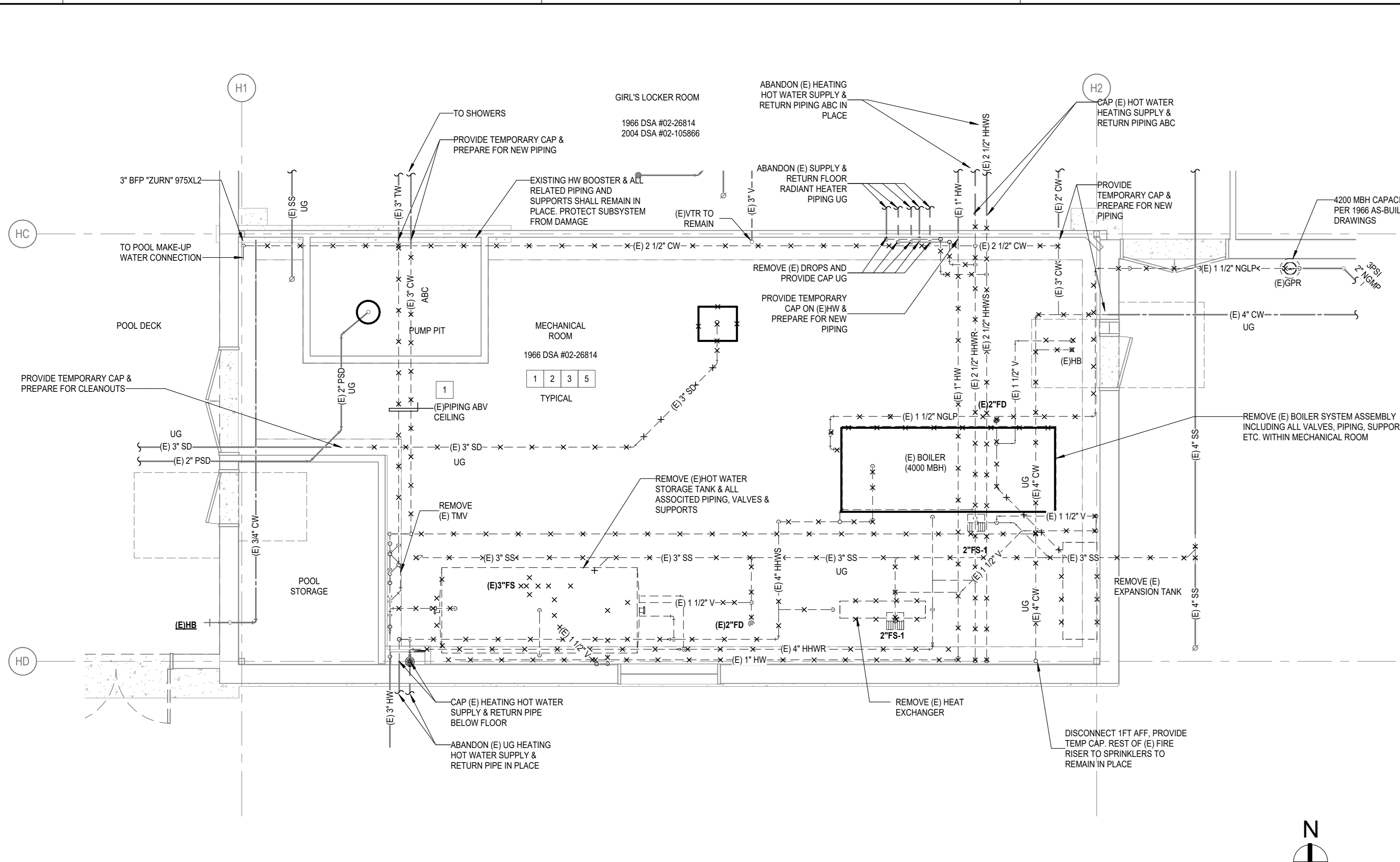
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PLUMBING FLOOR PLAN

SHEET
P-211

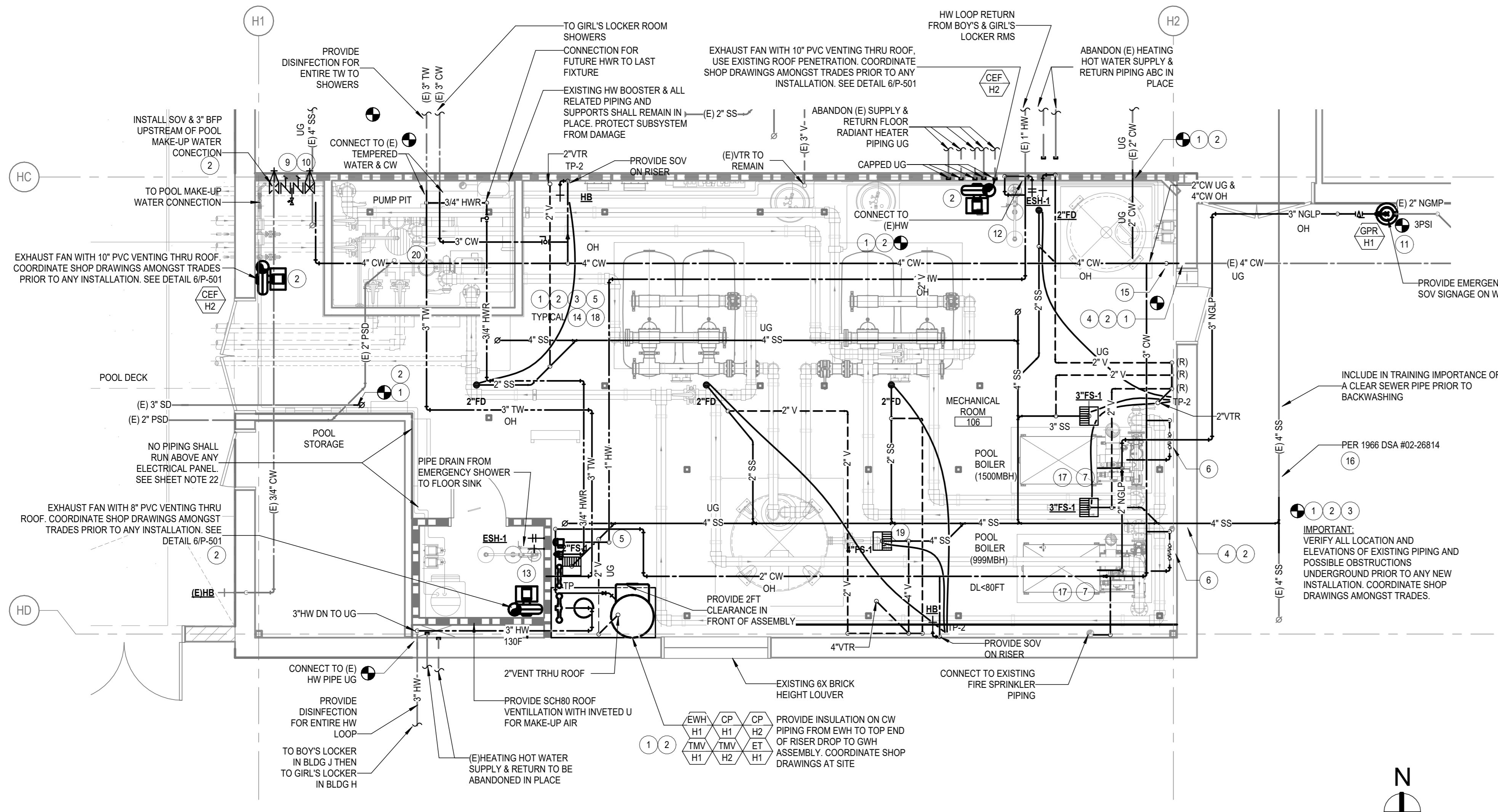
IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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1 ENLARGED PLUMBING DEMO PLAN - POOL MECHANICAL ROOM
 P-411 SCALE: 1/4" = 1'-0"



2 PLUMBING FLOOR PLAN
 P-411 SCALE: 1/4" = 1'-0"

PLUMBING DEMO KEY NOTES:

- VERIFY EXACT SIZE AND LOCATION OF EXISTING PIPE. REFLECT VERIFIED INFORMATION ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES PRIOR TO ANY PIPE INSTALLATION. REFLECT ON AS-BUILT DRAWING IF DIFFERENT FROM HEREWITH.
- VERIFY EXACT LOCATION OF ALL BUILDING COMPONENTS THAT MAY OBSTRUCT PATH OF NEW PIPING WELL AHEAD OF INSTALLATION. REFLECT VERIFIED INFORMATION ON SHOP DRAWINGS AND COORDINATE AMONGST TRADES PRIOR TO ANY PIPE INSTALLATION. REROUTE PIPING IF REQUIRED. REFLECT ON AS-BUILT DRAWINGS IF DIFFERENT FROM HEREWITH.
- ENSURE ALL CONDITIONS AFFECTING WORK, SUCH AS VERIFICATION OF TIE-IN ELEVATION TO EXISTING BY OTHERS, ARE WELL COORDINATED AMONGST TRADES PRIOR TO ANY INSTALLATION OR FABRICATION WORK. ADJUST PIPE ROUTE IF NEEDED. REFLECT ON AS-BUILT IF DIFFERENT FROM HEREWITH.
- UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING UNUSED MECHANICAL AND PLUMBING PIPING WITHIN MECHANICAL ROOM. COORDINATE ALL DEMO WORK AMONGST TRADES AND WITH SCHOOL DISTRICT PRIOR TO DEMO WORK.

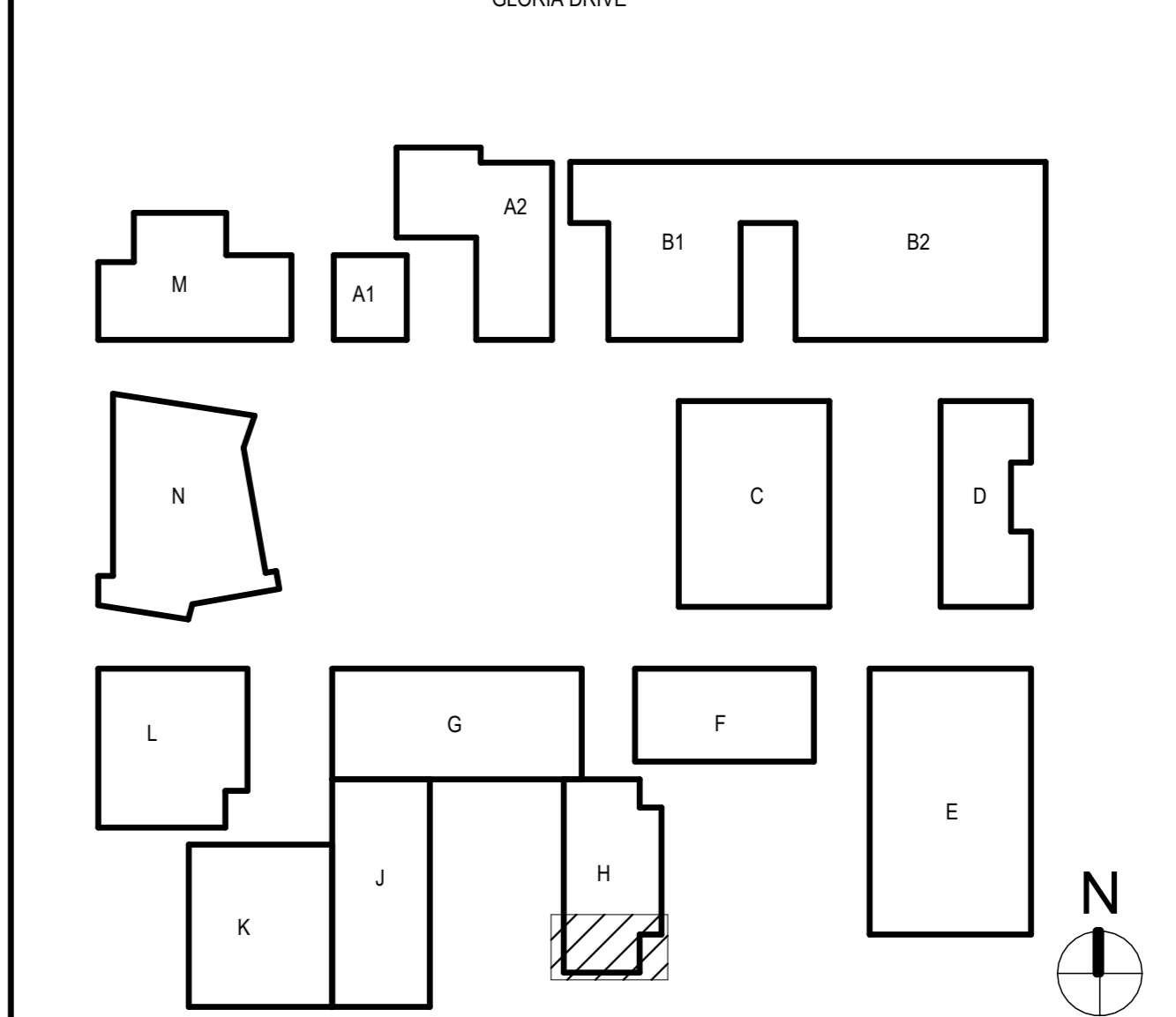
PLUMBING KEY NOTES:

- VERIFY EXACT SIZE AND LOCATION OF EXISTING PIPE. REFLECT VERIFIED INFORMATION ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES PRIOR TO ANY PIPE INSTALLATION. REFLECT ON AS-BUILT DRAWINGS IF DIFFERENT FROM HEREWITH.
- VERIFY EXACT LOCATION OF ALL BUILDING COMPONENTS THAT MAY OBSTRUCT PATH OF NEW PIPING WELL AHEAD OF INSTALLATION. REFLECT VERIFIED INFORMATION ON SHOP DRAWINGS AND COORDINATE AMONGST TRADES PRIOR TO ANY PIPE INSTALLATION. REROUTE PIPING IF REQUIRED. REFLECT ON AS-BUILT DRAWINGS IF DIFFERENT FROM HEREWITH.
- ENSURE ALL CONDITIONS AFFECTING WORK, SUCH AS VERIFICATION OF TIE-IN ELEVATION TO EXISTING BY OTHERS, ARE WELL COORDINATED AMONGST TRADES PRIOR TO ANY INSTALLATION OR FABRICATION WORK. ADJUST PIPE ROUTE IF NEEDED. REFLECT ON AS-BUILT IF DIFFERENT FROM HEREWITH.
- STRUCTURAL DRAWINGS FOR PROVISIONS ON A REQUIREMENTS WHEN RUNNING PIPE THROUGH, BELOW OR IN CLOSE PROXIMITY TO STRUCTURAL COMPONENTS. COORDINATE ALL SHOP DRAWINGS AMONGST TRADES PRIOR TO ANY INSTALLATION.
- ALL PLUMBING COMPONENTS SHALL RUN NEATLY ON WALL OR AS CLOSE AS POSSIBLE TO EQUIPMENT SERVED. NO COMPONENT SHALL PROTRUDE OUT ENCRoACHING PERSONNEL PATH OF TRAVEL NOR WITHIN ANY AREA RESERVED FOR SERVICE CLEARANCE OF OTHER UNITS WITHIN ROOM. COORDINATE ALL SHOP DRAWINGS PRIOR TO ANY INSTALLATION.
- CW MAKE-UP WATER FOR POOL BOILERS. PROVIDE SOV, BFP-2 & PRV NO HIGHER THAN 3FT FROM FF. SET PRV TO 15PSI. SEE BOILER INSTALLATION INSTRUCTIONS FOR MORE INFORMATION. PROVIDE AIR GAP AND DRAIN LINE TO NEAREST APPROVED RECEPTOR.
- CONNECT GAS PIPE TO POOL BOILER. PROVIDE SOV & DIRT LEG. SEE BOILER INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.
- MAKE-UP WATER FOR POOL SYSTEM. PROVIDE SOV ON RISER ABOUT 4'00" ABOVE FLOOR.
- BFP-1 WILKINS 375. PROVIDE AIR GAP FITTING AND DRAIN TO PIT. REFER TO POOL DRAWINGS FOR EXACT LOCATION.
- INSTALL GAS REGULATOR 3FT MINIMUM AWAY FROM IGNITION SOURCES. TYP.
- PROVIDE TMV & SOV TO ESH-EV. TMV ACCESSORY SHALL BE FROM SAME MANUFACTURER AS THE EMERGENCY SHOWER-EYEWASH COMBO. SEE POOL DRAWINGS FOR EMERGENCY SHOWER-EYEWASH COMBO MODEL NUMBER.
- IMPORTANT: VERIFY ALL LOCATION AND ELEVATIONS OF EXISTING PIPING AND POSSIBLE OBSTRUCTIONS UNDERGROUND PRIOR TO ANY NEW INSTALLATION. COORDINATE SHOP DRAWINGS AMONGST TRADES.
- ANY METALLIC PLUMBING PIPING OR METALLIC SUPPORT COMPONENTS FOR PLUMBING PIPING SHALL BE COATED WITH NEMEC SERIES COATING TO RESIST CORROSION. PREPARE SURFACE OF METAL PRIOR TO APPLYING PRIME COAT, STRIKE COAT AND FINISH COAT. EXACT COATING AND PROCEDURES SHALL BE PER MANUFACTURER RECOMMENDATIONS.
- PROVIDE BLDG SHUT OFF VALVE 3FT AFF. ALL FIXTURES INCLUDING HOSE BIBBS AND TRAP PRIMERS IN BUILDING SHALL BE CONNECTED DOWNSTREAM OF THIS SHUT OFF VALVE. 10 VALVE AS MAIN SHUT OFF VALVE FOR BUILDING.
- CLEAN AND FLUSH ALL EXISTING SEWER LINES DOWNSTREAM OF NEW FIXTURES TO THE 6" MAIN SS LINE.
- PROVIDE INTAKE AND EXHAUST VENT. INSTALL PER BOILER INSTALLATION INSTRUCTIONS AND DETAIL 4IP-501
- INSTALL PIPING BELOW STEEL FRAME. SEE STRUCTURAL DRAWINGS AND DETAILS FOR MORE INFORMATION. LOCATE PIPING WITHIN 1.5FT HORIZONTAL FROM FRAMES. COORDINATE SHOP DRAWINGS AMONGST TRADES PRIOR TO ANY INSTALLATION.
- PROVIDE LABEL TO LIMIT DISCHARGE FLOW TO NO MORE THAN 50GPM. INCLUDE IN TRAINING IMPORTANCE OF HAVING A CLEAN SEWER SYSTEM DURING BACKWASH.
- PROVIDE NEW SUMP PUMP ZOLLER 55 115V-1PH-9.7AMP. PROVIDE NEW BACKWATER VALVE & SOV. CONNECT TO EXISTING PIPE.

PLUMBING SHEET NOTES:

- ALL WORK FOR THE REMOVAL OF HAZARDOUS MATERIALS SHALL BE FULLY COORDINATED BETWEEN THE CONTRACTOR AND THE OWNER. THE ARCHITECT AND ENGINEERS THAT HAVE CREATED THE DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT ARE NOT RESPONSIBLE FOR SPECIFYING REQUIREMENTS FOR, OR CONSTRUCTION OBSERVATION OF, HAZARDOUS MATERIAL REMOVAL. THE OWNER SHALL PROVIDE SEPARATE DOCUMENTS REQUIRED FOR HAZARDOUS MATERIAL REMOVAL AND SEPARATE CONSTRUCTION OBSERVATION OF HAZARDOUS MATERIAL REMOVAL. CONTACT OWNER FOR MORE INFORMATION.
- ANY MATERIAL REQUIRED FOR WORK NOT READILY AVAILABLE FOR PURCHASE SHALL HAVE LEAD TIME INDICATED ON THE BID AND ON THE SUBMITTALS. SUCCESSFUL PROCUREMENT OF ALL MATERIALS REQUIRED FOR THE COMPLETION OF WORK SHALL BE ASCERTAINED BY CONTRACTOR PRIOR TO SCHEDULING OF WORK.
- ALL FINISH FLOOR ELEVATIONS (FF) BASED FROM CIVIL GRADING DRAWINGS. PLEASE REFER TO CIVIL DRAWINGS FOR MORE INFORMATION. BFF VALUES ARE ALL BASED FROM FINISH FLOOR ELEVATION INSIDE BUILDING. COORDINATE EXACT ELEVATIONS THRU SHOP DRAWINGS AND AT SITE.
- EXISTING PLUMBING LAYOUT ARE BASED FROM AVAILABLE RECORD DRAWINGS OF UNKNOWN ACCURACY. ACTUAL CONDITIONS MAY BE DIFFERENT ESPECIALLY FOR THOSE WITHIN CONCEALED SPACES AND/OR UNDERGROUND. CONTRACTOR SHALL INVESTIGATE EXISTING PIPE ROUTE, ELEVATION, SIZE AND CONDITION. THIS VISUAL OBSERVATION INSPECTION OR OTHER MEANS NECESSARY TO COMPLETE WORK, WELL AHEAD OF NEW PIPE INSTALLATION. SCHEDULE WORK ACCORDINGLY TO PROVIDE ENOUGH TIME TO FIND SOLUTIONS SHOULD VERIFIED INFORMATION BE DIFFERENT FROM HEREWITH. REFLECT ALL FINDINGS ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES, AND ON AS-BUILT DRAWINGS.
- SEE PREVIOUS AS-BUILT DRAWINGS FOR CONTINUATION OF EXISTING PLUMBING UTILITIES OUTSIDE OF THIS PROJECT'S SCOPE FOR REFERENCE.
- FOR CONNECTIONS TO EXISTING PIPE FOUND SMALLER THAN WHAT IS SHOWN ON PLANS, FIELD VERIFY TO LOCATE CLOSEST LARGEST PIPE UPSTREAM FOR SUPPLY PIPING. FOR DRAIN PIPING, FIELD VERIFY TO LOCATE CLOSEST LARGEST PIPE OF SUFFICIENT DEPTH DOWNSTREAM. REFLECT ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES.
- PROVIDE TEMPORARY UTILITIES TO ALL FIXTURES & EQUIPMENT TO REMAIN IN SERVICE DURING CONSTRUCTION PERIOD.
- COORDINATE CONSTRUCTION WORK AND SCHEDULE OF WORK WITH SCHOOL DISTRICT. CONTRACTOR SHALL INCLUDE IN BID MEANS AND/OR METHODS REQUIRED FOR THE WORK INCLUDING ANY REQUIRED SERVICE SHUT DOWNS, TEMPORARY LINES, ROAD CLOSURES, SPECIAL INSPECTIONS, ETC. TO ACCOMPLISH SCOPE. SCHEDULING OF WORK SHALL BE AMICABLE BETWEEN OWNER AND CONTRACTOR.
- CONTRACTOR SHALL FOLLOW GENERAL PIPE ROUTE AND VALVE LOCATIONS, AND GENERAL ORDER OF SYSTEM COMPONENTS SHOWN ON PLANS. ADJUST PIPE ELEVATIONS OR ROUTING TO AVOID STRUCTURAL COMPONENTS & OTHER BUILDING COMPONENTS WHEN POSSIBLE. IF NECESSARY & ONCE AMICABLE BETWEEN TRADES, COORDINATE ALL SHOP DRAWINGS AMONGST TRADES PRIOR TO ANY PIPE FABRICATION OR INSTALLATION.
- CONTRACTOR SHALL PREPARE AND MAINTAIN AS-BUILT DRAWINGS OF ALL PLUMBING SYSTEMS AS INSTALLED AT THE JOB SITE. DRAWN BY CONTRACTOR OVER THE DESIGN PLANS. THEY SHALL BE READILY AVAILABLE TO VIEW & INSPECT UPON REQUEST BY PROJECT INSPECTOR, ENGINEER OR OWNER. AS-BUILTS SHALL CLEARLY SHOW CHANGES, REVISIONS, CLARIFICATIONS & SUBSTITUTIONS INSTALLED IN THE PROJECT INCLUDING BUT NOT LIMITED TO EXACT PIPE ROUTE ESPECIALLY THOSE CONCEALED AND/OR UNDERGROUND. UNDERGROUND PIPE ELEVATIONS, PIPE SIZES, DIMENSIONS FROM WALL/SIGRID LINES OF ANY REROUTED PIPE, RFI/CDC/ASI TAG AS REFERENCE TO WHERE CHANGES OCCURRED FROM IF ANY, AND ANY INFORMATION THAT MAY CLARIFY HOW SYSTEMS & COMPONENTS HAD BEEN INSTALLED OR HOW IT DIFFERS FROM ORIGINAL DESIGN PLANS. REFERENCE TO AN RFI/CDC/ASI ALONE SHALL NOT CONSTITUTE COMPLETE AS-BUILT DRAWINGS. AS-BUILT DRAWINGS SHALL BE IN HARD COPY AND DIGITAL (PDF) FORMAT. AS-BUILTS AND QUALITY OF SUCH ARE CRITICAL REQUIREMENTS FOR MAINTENANCE UPKEEP AND FORWARD USE AS BASIS FOR POSSIBLE FUTURE CONSTRUCTION IMPROVEMENTS. FUTURE DESIGNER/CONTRACTOR WOULD RELY ON CONTRACTOR SHALL PROVIDE "AS-BUILT" TAG AND CONTRACTOR INFORMATION ON ALL AS-BUILT SHEETS.
- CONNECT WASTE, VENT & COLD WATER LINES TO ALL NEW FIXTURES. SEE FIXTURE SCHEDULE FOR BRANCH AND FIXTURE OUTLET/INLET CONNECTION SIZES.
- HORIZONTAL DRAINAGE PIPING SHALL BE RUN IN PRACTICAL ALIGNMENT AND A UNIFORM SLOPE OF NOT LESS THAN 2% TOWARD THE POINT OF DISPOSAL UNLESS IMPRACTICAL. DUE TO BUILDING'S STRUCTURAL FEATURES, OR IF CONNECTING TO EXISTING PIPE AT ITS EXISTING UPSTREAM/DOWNSTREAM DEPTH IS IMPOSSIBLE WITHOUT SLOPING LESS THAN 2% IN SUCH CONDITIONS, PIPE CAN BE SLOPED AT NO LESS THAN 1%. COORDINATE SHOP DRAWINGS AMONGST TRADES PRIOR TO FABRICATION AND INSTALLATION THEN REFLECT ALL CHANGES ON THE AS-BUILT DRAWINGS.
- COORDINATE ALL CONNECTION POINTS AMONGST TRADES AT SITE PRIOR TO FABRICATION OR INSTALLATION.
- UNLESS INSIDE UTILITY ROOMS, ALL OVERHEAD PIPING INSIDE ROOM WITH AN EXPOSED CEILING SHALL HAVE THE PIPING INSTALLED AS HIGH AS POSSIBLE. FULLY COORDINATE AMONGST TRADES.
- ALL PUMPED CONDENSATE DRAIN LINES (PCD) SHALL SLOPE AND DISCHARGE DOWN TO A GRAVITY CD BY A MINIMUM OF 6" TO AVOID BACKFLOW TO MECH UNIT.
- ON A GAS CONNECTION SHALL BE INSTALLED AS ILLUSTRATED ON CPC FIGURE 1212.9 OF THE 2022 CPC. INCOMING GAS FLOW SHALL ALWAYS COME FROM THE TOP TO ALLOW SEDIMENTS SETTLE IN DOWN IN THE TRAP. A TEST BEFORE TRAP SHALL SERVE AS THE BRANCH CONNECTING TO THE APPLIANCE.
- ALL VALVES ABOVE CEILING, ACCESSIBLE THRU ACCESS PANELS WITH AN OPENING OF NO MORE THAN 14"x14", SHALL BE WITHIN ARMS REACH FROM THE ACCESS PANEL OPENING.
- PRIME AND PAINT ALL EXPOSED PIPING TO MATCH ARCHITECTURAL FINISH. KEEP PAINT OFF OF TAGS AND MARKS IDENTIFYING SYSTEM, SIZE, MODEL OR OTHER IMPORTANT INFORMATION.
- PROTECT ALL INSTALLED DRAINS, DRAIN STRAINERS, EQUIPMENT COMPONENTS, FIXTURES ESPECIALLY THOSE WITH STAINLESS STEEL SURFACES FROM DAMAGE. PLUMBING SYSTEM SHALL BE CLEAN, UNDAMAGED, WORKING AND IN NEW CONDITION UP TO HAND OFF TO OWNER. SEE SPECIFICATIONS FOR MORE INFORMATION ON CLOSING DCC.
- NO EXPOSED PIPING SHALL BE LEFT TO RUST OR SUBJECTED TO CONDITIONS DETRIMENTAL TO THE PIPE WITHOUT PROVIDING PROTECTION, TEMPORARY OR OTHERWISE, SUITABLE FOR THE TYPE OF PIPE BEING PROTECTED.
- CLOSELY COORDINATE PENETRATIONS THRU STRUCTURAL MEMBERS AMONGST TRADES AT THE SITE THRU SHOP DRAWINGS PRIOR TO CONSTRUCTION. PENETRATION THRU CONCRETE FOUNDATION SHALL BE PROPERLY SLEEVED WHEN REQUIRED. COORDINATE DROPPING FOOTING IF REQUIRED. ALL NOTCHES AND HOLES SHALL BE NEATLY BORED. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION. <<LOOK FOR THAT JOB>>
- THERE SHALL BE NO PIPING WITHIN ELECTRICAL EQUIPMENT'S DEDICATED SPACE. ELECTRICAL EQUIPMENT SUCH AS PANEL BOARDS, SWITCHBOARDS AND MOTOR CONTROL CENTERS LOCATED IN ROOMS MUST HAVE EXCLUSIVE DEDICATED SPACE FROM THE FLOORING AND TIE ABOVE THE EQUIPMENT. THE WIDTH AND DEPTH OF THE EQUIPMENT. COORDINATE SHOP DRAWINGS AMONGST TRADES LOCATING ALL ELECTRICAL EQUIPMENT PRIOR TO ANY PIPE INSTALLATION. THERE SHALL ALSO BE NO PIPING ABOVE THE DEDICATED SPACE UNLESS PROTECTION IS PROVIDED FOR EQUIPMENT FROM PIPING LEAK OR BREAK.
- CONTRACTOR TO AVOID GRABBING ELECTRICAL HARDWARES SUCH AS TELEPHONES TO AVAILABLE WATER LINES, WHEN POSSIBLE TO AVOID METALLIC TASTE IN WATER FROM DRINKING FOUNTAINS.

KEYPLAN



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 REVIEWED FOR
 SS FLS ACS
 DATE: 05/09/2024

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CONSULTANT

capital engineering
 RANCHO COVINA, CALIFORNIA
 MB - JV 232142.00
 PM - DESIGN TEAM PROJECT NO.

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PROFESSIONAL SEAL
 JOHN F. KENNEDY
 STATE OF CALIFORNIA
 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

MANAGEMENT	LIONAKIS PROJECT NO.	023284
CLIENT PROJECT NO.	LIONAKIS 2017	

TITLE
**ENLARGED PLUMBING
 DEMO &
 CONSTRUCTION PLAN**

SHEET
P-411


IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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Addendum: 02/20/24 SCUSD_IPMS Pool Upgrade 02/20/24_MECHANSTR_024_CENTRAL.rvt

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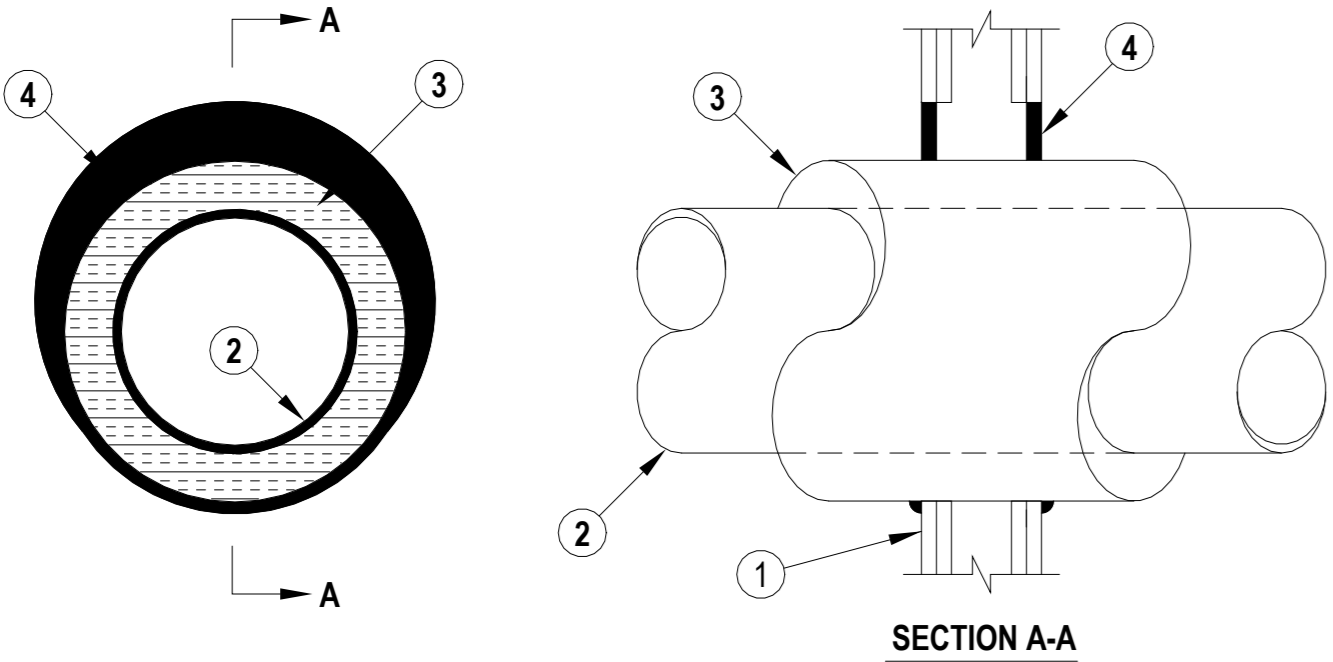


Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CANULC S115

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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July 17, 2015

Page: 1 of 2



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System No. W-L-5029

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.



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Page: 2 of 2

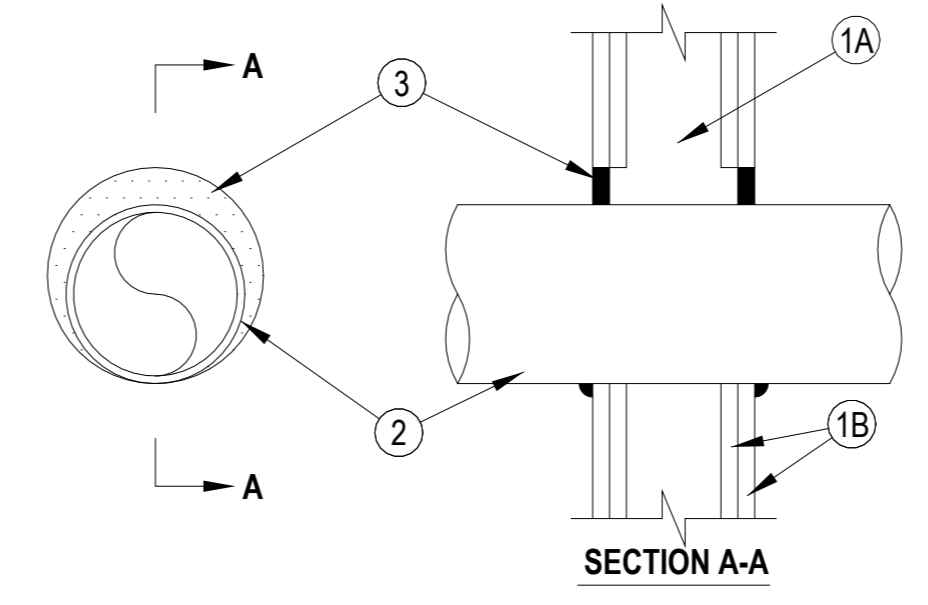


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to UL 1479 and CANULC S115

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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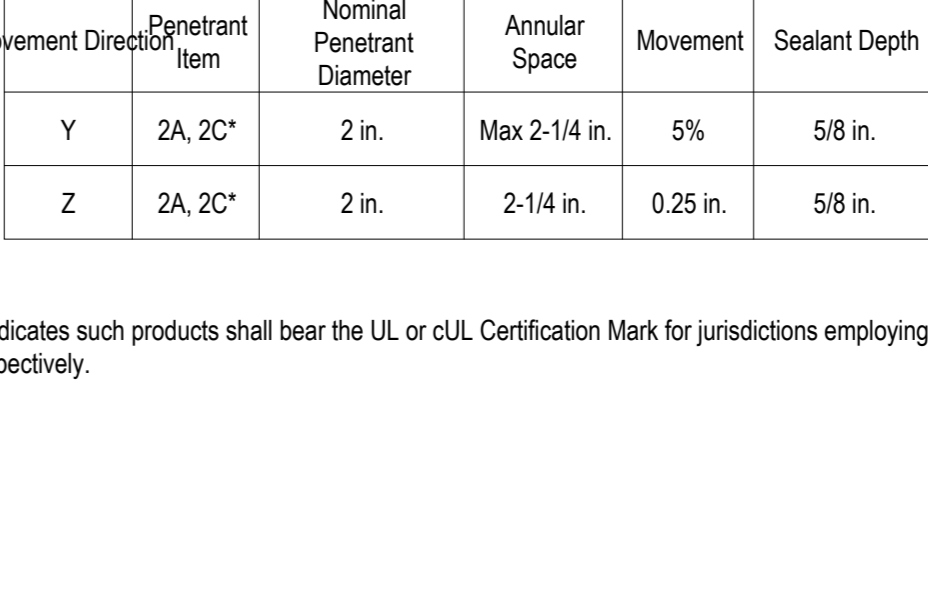
Page: 1 of 2



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

System No. W-L-1054


W-L-1054



SECTION A-A

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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FIRE PENETRATION DETAIL

SCALE: NONE

1
P-502

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

LIONAKIS

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

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

MANAGEMENT
LIONAKIS PROJECT NO: 023284
CLIENT PROJECT NO:
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TITLE
PLUMBING DETAILS

SHEET
P-502

CERTIFICATE OF COMPLIANCE
 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 Date Prepared:

A. GENERAL INFORMATION

01	Project Location (city)	Sacramento	02	Climate Zone	12
03	Occupancy Types Within Project (select all that apply):				
<input type="checkbox"/> School or Classroom					

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 140.1, 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 NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-NRCH compliance document.

01	02	03
My project consists of (check all that apply):		
<input type="checkbox"/> New system (DHW system being installed for the first time)	<input type="checkbox"/> System Type ^{1,2}	<input type="checkbox"/> System Components
<input type="checkbox"/> System Alteration (equipment, distribution or controls)	<input type="checkbox"/> Equipment	<input type="checkbox"/> Distribution
<input checked="" type="checkbox"/> Central System (serving nonresidential spaces)	<input type="checkbox"/> Equipment	<input type="checkbox"/> Distribution
<input type="checkbox"/> Controls	<input type="checkbox"/> Controls	<input type="checkbox"/> Controls

¹ FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.
² Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.
³ DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies.

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.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	Compliance Results
Table F	Table G	Table H	
Yes			COMPLIES

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

CERTIFICATE OF COMPLIANCE
 Project Name: JFK Pool Modernization Report Page: (Page 2 of 5)
 Project Address: 2024-03-12T14:02:04-04:00 Date Prepared:

E. ADDITIONAL REMARKS

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

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CERTIFICATE OF COMPLIANCE
 Project Name: JFK Pool Modernization Report Page: (Page 3 of 5)
 Project Address: 2024-03-12T14:02:04-04:00 Date Prepared:

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.

System Name	EWH-H1	03		04		05		06	
		Exception to 140.5(c) / 170.2(d)3	Exceptions Do Not Apply	Gas Service Water Heating System >= 1MMBtu/h ³	Capacity-weighted Average Efficiency %	Designed Standby Loss	Maximum Standby Loss		
07	08	09	10	11	12	13	14	15	
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss
EWH-H1	Commercial Electric Storage Water Heater	100	153,546					0.09	0.57

³ 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.
⁴ FOOTNOTE: Compliant equipment may be found in the Modernized Appliance Efficiency Database System (MAEDBS) on the Energy Commission website: <https://caenergy.com/maedb>

Water Heating Equipment All Occupancies

Item Tag	Yes	No	Not Applicable	Requirement	
				Requirement	Compliance
18	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unfired storage tank insulation shall have Internal >R-16 OR External >R-3.5. Label required per 110.3(c)3	
19	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5	
20	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Isolation valves for instantaneous water heater with input rating >6.8 kBtu/h or 2 kW has been specified per 110.3(c)6	
21	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	School buildings < 25,000 ft ² and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.	

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CERTIFICATE OF COMPLIANCE
 Project Name: JFK Pool Modernization Report Page: (Page 4 of 5)
 Project Address: 2024-03-12T14:02:04-04:00 Date Prepared:

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

Form/Title
NRCC-PLB-E - Must be submitted for all buildings.

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
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CERTIFICATE OF COMPLIANCE
 Project Name: JFK Pool Modernization Report Page: (Page 5 of 5)
 Project Address: 2024-03-12T14:02:04-04:00 Date Prepared:

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: David Yasinsky	Documentation Author Signature: [Signature]
Company: Capital Engineering Consultants	Signature Date: 2024-04-28
Address: 11020 Sun Center Drive, Suite 100	CEA/HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

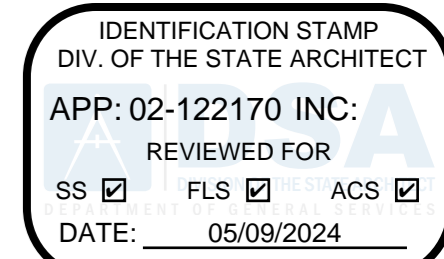
RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- 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)
- 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.
- 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.
- 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	Responsible Designer Signature: [Signature]
Company: Capital Engineering Consultants	Date Signed: 2024-04-29
Address: 11020 Sun Center Drive, Suite 100	License: M33468
City/State/Zip: Rancho Cordova, CA 95670	Phone: 916-851-3500

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 Sacramento CA 95818
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MB - JV 232142.00
 PM - DESIGN TEAM PROJECT NO.

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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

MARK	DATE	DESCRIPTION

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 CLIENT PROJECT NO:
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TITLE
 TITLE 24 COMPLIANCE

SHEET
 P-701

IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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B

Autodesk Doc: 1026264-SCUSD-JFKHS Pool Upgrades022924_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.

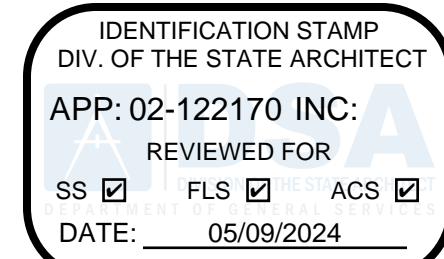
1. THESE GENERAL NOTES ARE INTENDED TO ASSIST THE CONTRACTOR IN THE EXECUTION OF THE ELECTRICAL WORK AND TO BE INCLUDED IN CONJUNCTION WITH THE CONTRACT DOCUMENT DRAWINGS AND SPECIFICATION REQUIREMENTS. SOME OF THE GENERAL NOTES ARE EXCERPTS FROM THE SPECIFICATION.
2. PROCURE PERMITS AND LICENSES REQUIRED. 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 (WIREFORMED) SURFACE RACEWAY IS NOT IN PLACE AS SHOWN ON PLANS, PROVIDE NEW CONDUITS AND (WIREFORMED) 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 314-1.16 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 CEILINGS 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

ABBREV	DESCRIPTIONS	ABBREV	DESCRIPTIONS
A, AMP	AMPERES	MAX	MAXIMUM
AC	ACOVE COUNTER	MC	METAL-CLAD CABLE
AF/AT	AMPERE FRAME / AMPERE TRIP	MCA	MINIMUM CIRCUIT AMPACITY
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AHJ	AUTHORITY HAVING JURISDICTION	MGB	MOTOR-GENERATOR SET
AIC	AMPERE INTERRUPTING CAPACITY	MG SET	MOTOR-GENERATOR SET
AL	ALUMINUM	MLO	MAIN LUGS ONLY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MOC	MAXIMUM OVERCURRENT PROTECTION
AS/AF	AMPERE SWITCH / AMPERE FUSE	MPOE	MINIMUM POINT OF ENTRY
AUTO	AMPERE TRIP RATING OF BREAKER	MS	MOTION SENSOR
ATS	AUTOMATIC	MSB	MAIN SWITCHBOARD
AWG	AUTOMATIC TRANSFER SWITCH	MTD	MOUNTED
BMS	AMERICAN WIRE GAUGE	MTS	MANUAL TRANSFER SWITCH
C, CDT	BUILDING MANAGEMENT SYSTEM	MV	MEDIUM VOLTAGE CABLE
CAV	CONDUIT	MW	MEGAWATTS
CB	COMMUNITY ANTENNA TELEVISION	(N)	NEW
CC	CIRCUIT BREAKER	NECA	NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION
CCFL	CALIFORNIA ELECTRICAL CODE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CD	COMPACT FLUORESCENT	NIC	NOT IN CONTRACT
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	NL	NIGHT LIGHT
CKT	CIRCUIT	NRTL	NATIONALLY RECOGNIZED TESTING LABORATORIES
cmil	CIRCULAR MIL	NTS	NOT TO SCALE
CO	CONDUIT ONLY w/PULL STRING	ON	ON CENTER
CSFM	CALIFORNIA STATE FIRE MARSHALL	OPD	OVERCURRENT PROTECTIVE DEVICE
CT	CURRENT TRANSFORMER	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CU	COPPER	OFI	OWNER FURNISHED, OWNER INSTALLED
DET	DETAIL	PH, P	PHASE OR POLE
DISC	DISCONNECT	PB	PULL BOX
DIST	DISTRIBUTION	PF	POWER FACTOR
DWG	DRAWING	PFB	PROVIDE FOR FUTURE BREAKER
EC	ELECTRICAL CONTRACTOR	PIV	POST INDICATOR VALVE
ECC	EQUIPMENT GROUNDING CONDUCTOR	PLC	PROGRAMMABLE LOGIC CONTROLLERS
ELEV, EL	ELEVATION	PNE	PANEL
EM, EMERG	EMERGENCY	PoE	POWER OVER INTERNET
EMT	ELECTRICAL METALLIC TUBING	PV	PHOTOVOLTAICS
ENT	ELECTRICAL NONMETALLIC TUBING	PVC	POLYVINYL CHLORIDE
EOL	END OF LINE RESISTOR	PWR	POWER
EPO	EMERGENCY POWER OFF	(R)	RELOCATED
EQPT	EQUIPMENT	RCP	REFLECTED CEILING PLAN
EV	ELECTRIC VEHICLE	RECT	RECTANGLE
EVSE	ELECTRIC VEHICLE SUPPLY EQUIPMENT	REQD	REQUIRED
EXH	EXHAUST	RGSC	RIGID GALVANIZED STEEL CONDUIT
(E)	EXISTING	RMC	RIGID METAL CONDUIT
(F)	FUTURE	RMS	ROOT-MEAN-SQUARE
FACP	FIRE ALARM CONTROL PANEL	SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
FED	FURNISHED BY OTHERS	SCR	SILICON CONTROLLED RECTIFIER
FF	FINISHED FLOOR	SHLD	SHIELDED
FG	FINISHED GRADE	SPD	SURGE-PROTECTIVE DEVICE
FLA	FULL LOAD AMPS	SPECS	SPECIFICATIONS
FLEX	FLEXIBLE	SW	SWITCH
FLUOR	FLUORESCENT	T, XFMR	TRANSFORMER
FMC	FLEXIBLE METAL CONDUIT	TEMP	TEMPORARY
FMT	FLEXIBLE METAL TUBING	THHN	THERMOPLASTIC, HEAT RESISTANT CABLE, NYLON
GEC	GROUNDING ELECTRODE CONDUCTOR	TS	TAMPERS RESISTANT
GFCI	GROUND-Fault CURRENT INTERRUPTER	TR	TAMPERS RESISTANT
GFCI	GROUND-FAULT PROTECTION OF EQUIPMENT	TSTAT	THERMOSTAT
GND	GROUND	TYP	TYPICAL
HID	HIGH INTENSITY DISCHARGE	UG	UNDERGROUND
HP	HORSEPOWER	UGPS	UNDERGROUND PULL SECTION
HVAC	HEATING, VENTILATION & AIR CONDITIONING	UL	UNDERWRITERS LABORATORIES
Hz	HERTZ (cycle per second)	UNO	UNLESS NOTED OTHERWISE
IEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS	UPS	UNINTERRUPTIBLE POWER SUPPLY
IG	ISOLATED GROUND	USB	UNIVERSAL SERIAL BUS
IMC	INTERMEDIATE METAL CONDUIT	VFD	VARIABLE FREQUENCY DRIVE
ISC, SC	SHORT CIRCUIT	V	VOLTS
ISOL	ISOLATED	Va	VOLT-AMPERE
JBX	JUNCTION BOX	Vac	VOLTS ALTERNATING CURRENT
kmil	ONE THOUSAND CIRCULAR MILS	Vdc	VOLTS DIRECT CURRENT
kV	KILOVOLTS	VEM	VIRTUAL NET ENERGY METERING
kVA	KILOVOLTS-AMPERES	W	WATTS
LED	LIGHT-EMITTING DIODE	W-hr	WATT-HOUR
LCP	LIGHTING CONTROL PANEL	WITH	WITH
LPC	LIQUEFIED PETROLEUM GAS	WP	WEATHERPROOF
LRC	LOCKED-ROTOR CURRENT	WPL	WEATHERPROOF LOCKING
LTG	LIGHTING	WPU	WEATHERPROOF WHILE IN USE
		WR	WEATHER RESISTANT
		(X)	REMOVE OR DEMO

ELECTRICAL SHEET INDEX

SHEET NO.	SHEET TITLE
E001	ELECTRICAL SHEET INDEX, NOTES AND ABBREVIATIONS
E002	ELECTRICAL SYMBOL LEGEND
E101	ELECTRICAL SITE PLAN
E201	POWER FLOOR PLAN
ED301	DEMO POWER FLOOR ENLARGED PLAN
E301	POWER FLOOR ENLARGED PLAN
E601	ELECTRICAL SCHEDULES AND DETAILS



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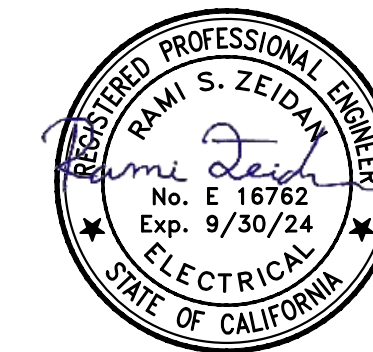


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SEAL



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

6715 GLORIA DR
SACRAMENTO, CA 95831

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

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MANAGEMENT	
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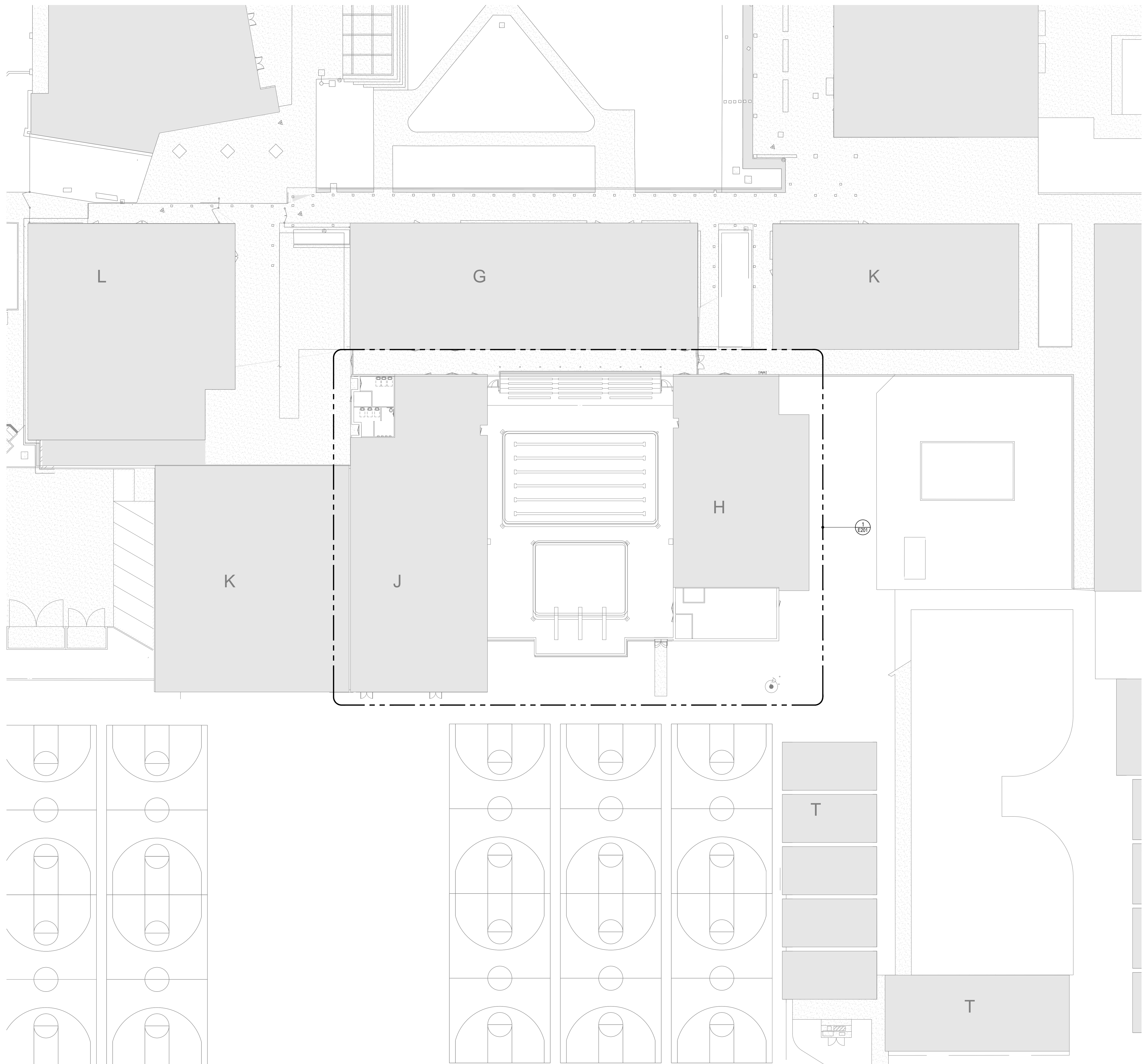
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**ELECTRICAL SHEET
INDEX, NOTES AND
ABBREVIATIONS**

SHEET

E001

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



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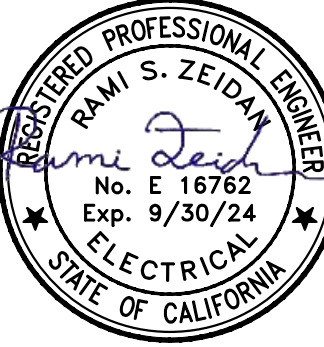
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TITLE
ELECTRICAL
SITE PLAN

SHEET
E101

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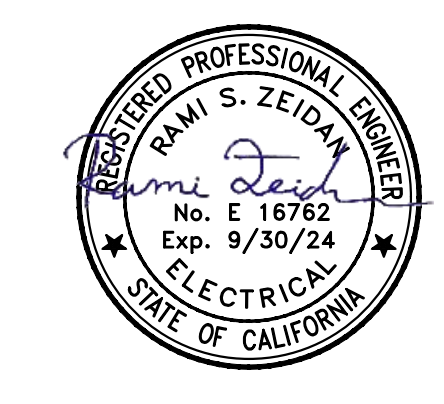
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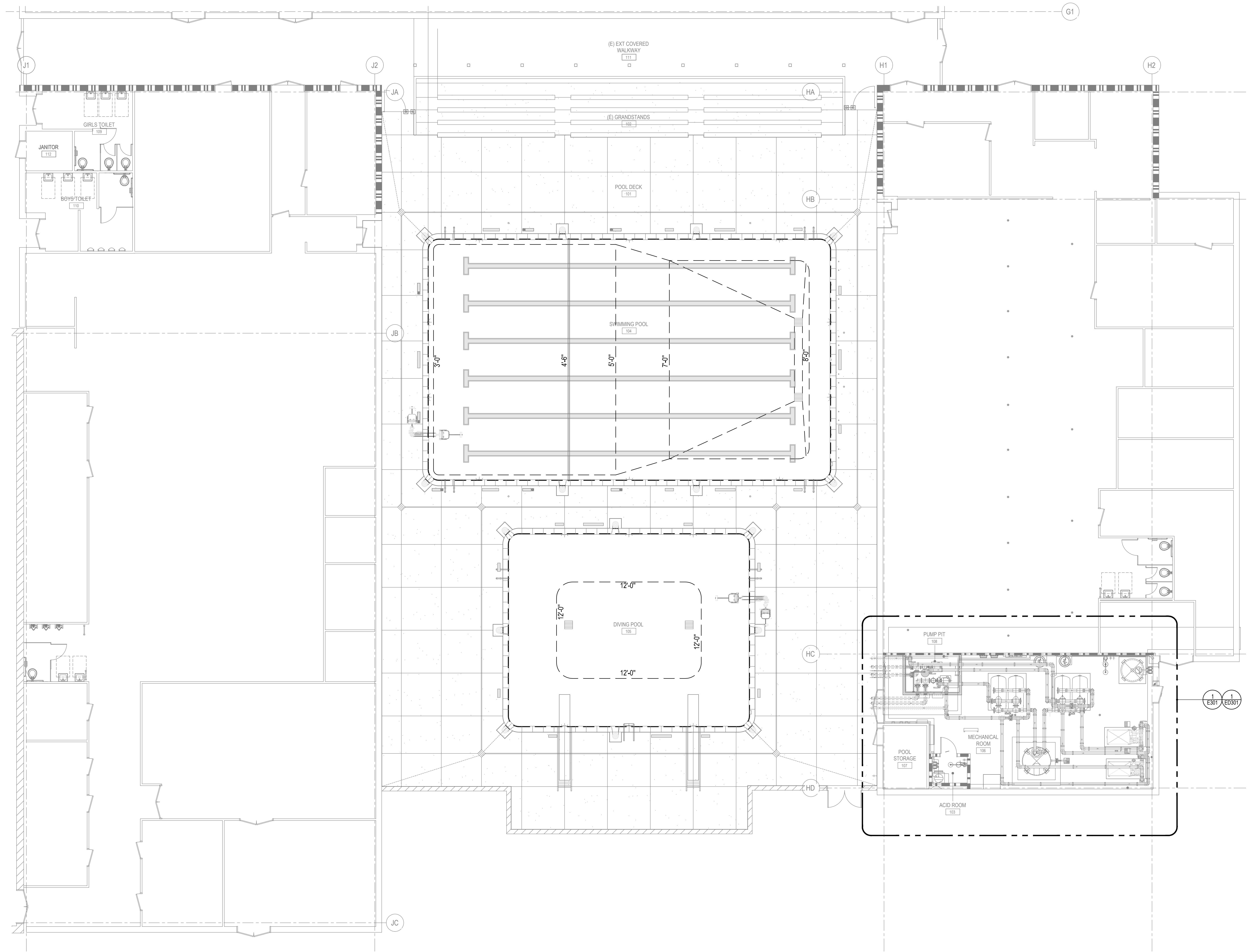
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TITLE
POWER FLOOR PLAN

SHEET
E201



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

0.14" 1/2"

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C

B

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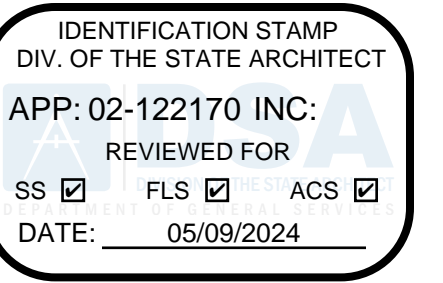
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GENERAL NOTES

- 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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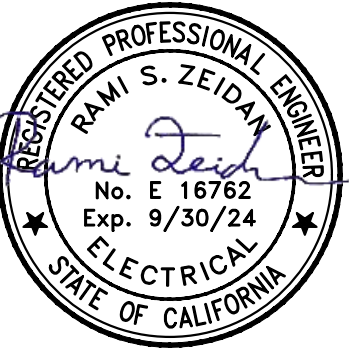


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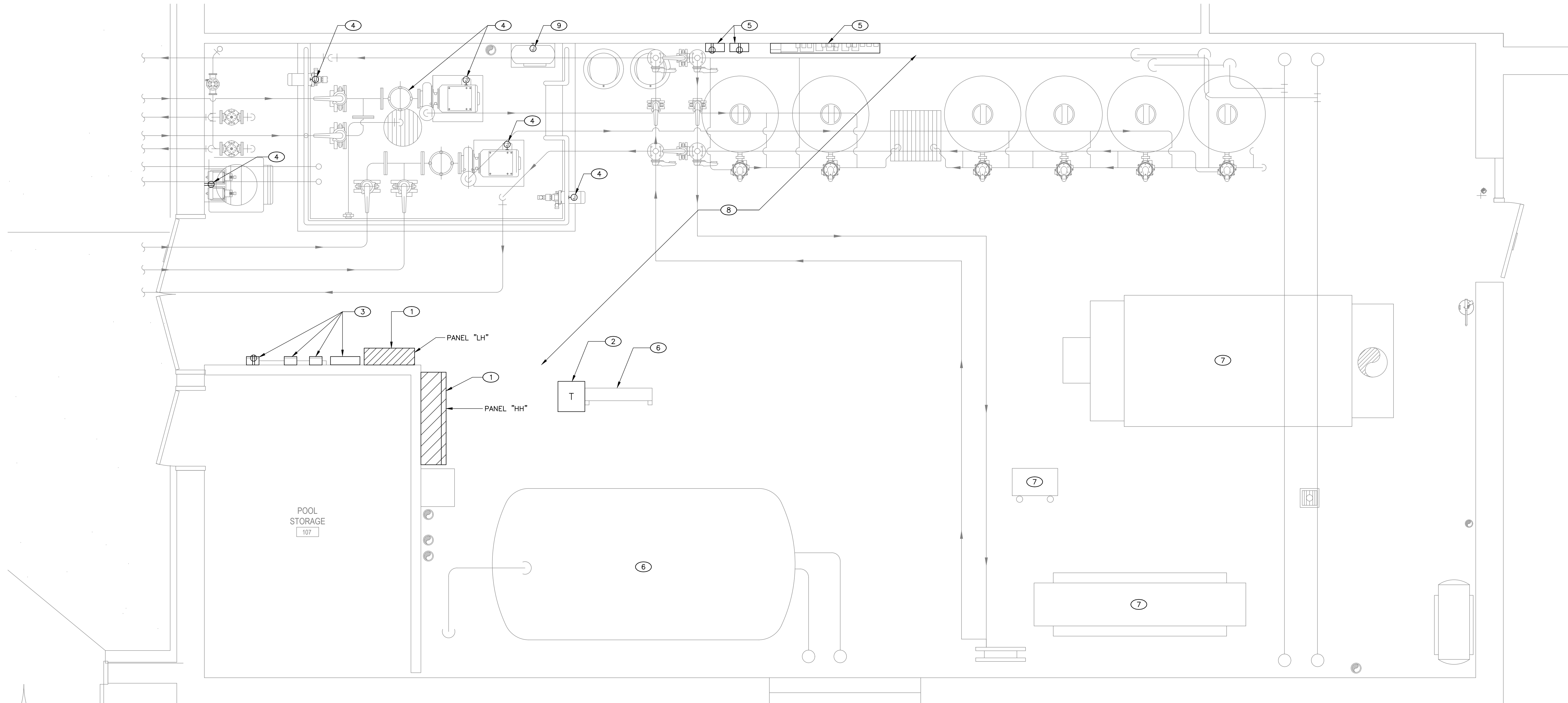
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MANAGEMENT	
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CLIENT PROJECT NO:	N/A
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TITLE
**DEMO POWER FLOOR
 ENLARGED PLAN**

SHEET
ED301

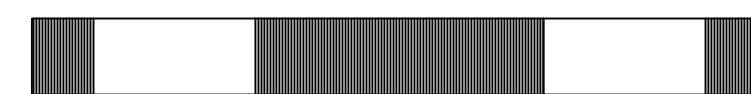


1 DEMO POWER FLOOR ENLARGED PLAN
 SCALE: 1/2" = 1'-0"

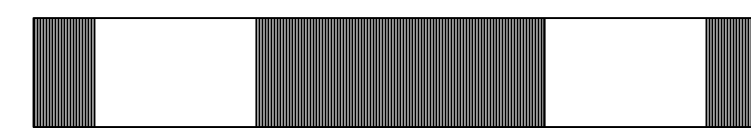
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WALL LEGEND



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



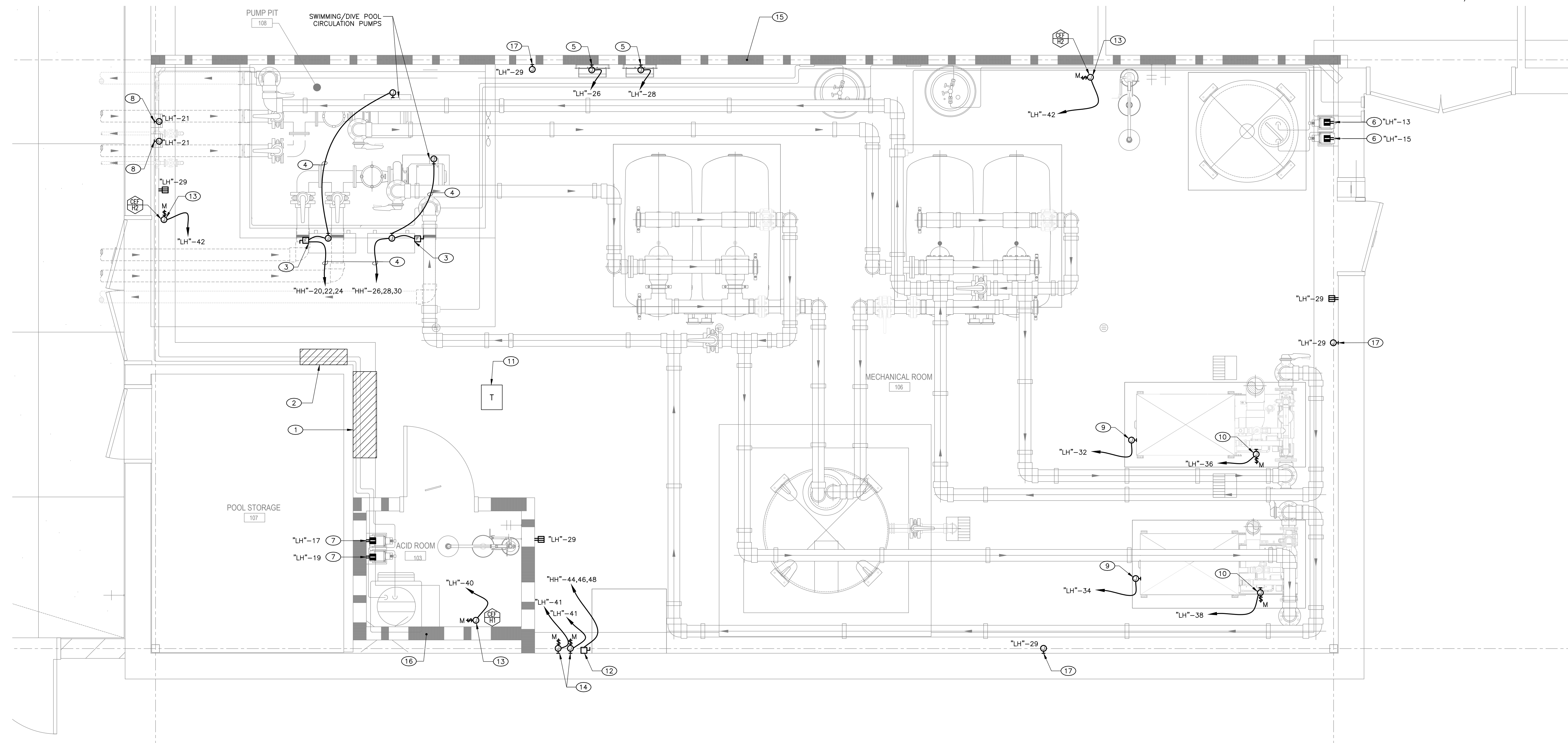
1-HR FIRE RATED WALL.
SEE KEY NOTE 16/E301

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 D 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"

IDENTIFICATION STAMP
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APP: 02-122170 INC.
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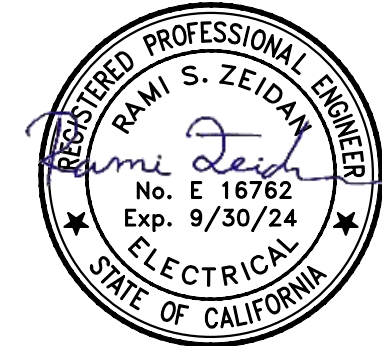
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SEAL



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	
LIONAKIS PROJECT NO.	023283
CLIENT PROJECT NO.	N/A
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TITLE
**POWER FLOOR
ENLARGED PLAN**

SHEET
E301

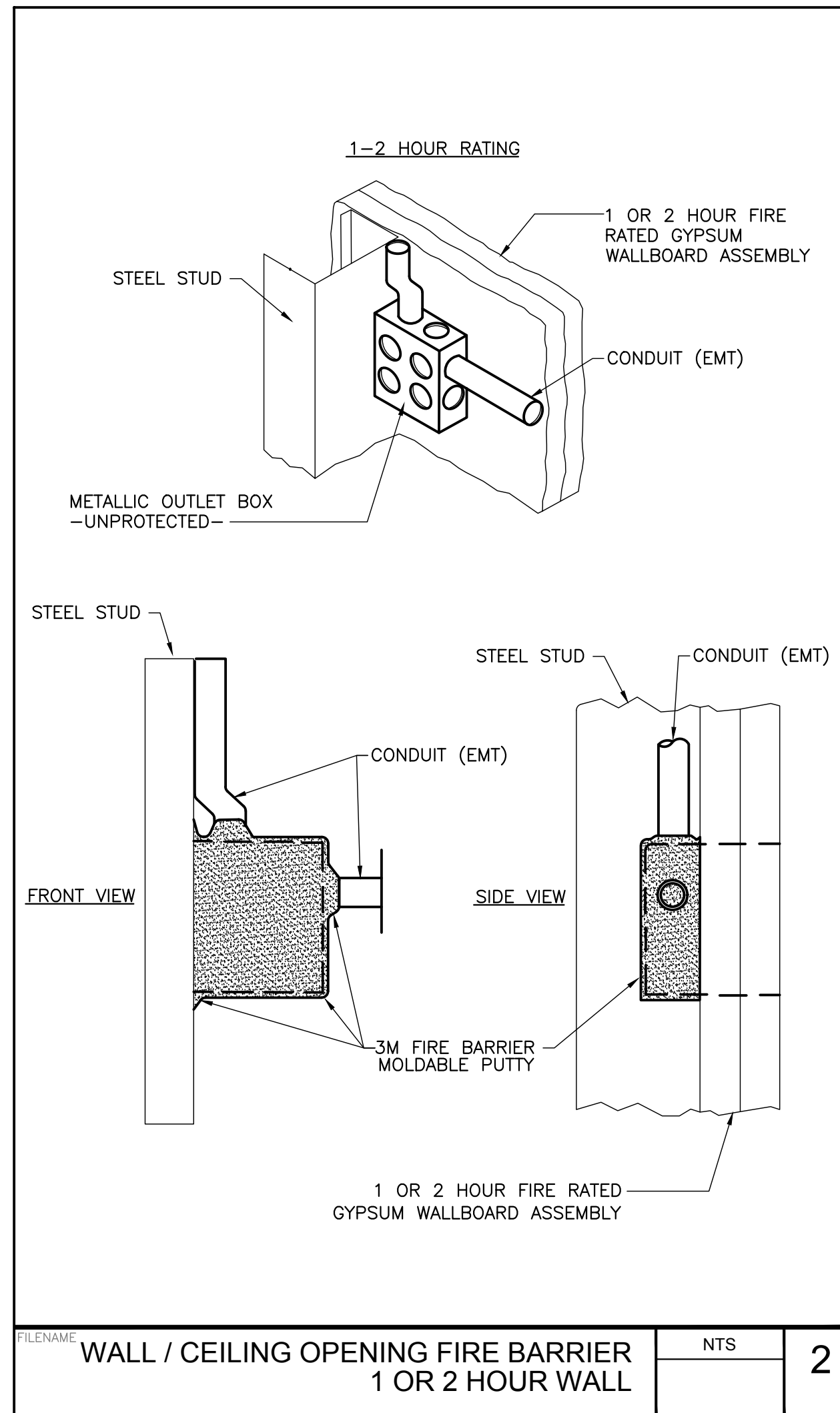
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C

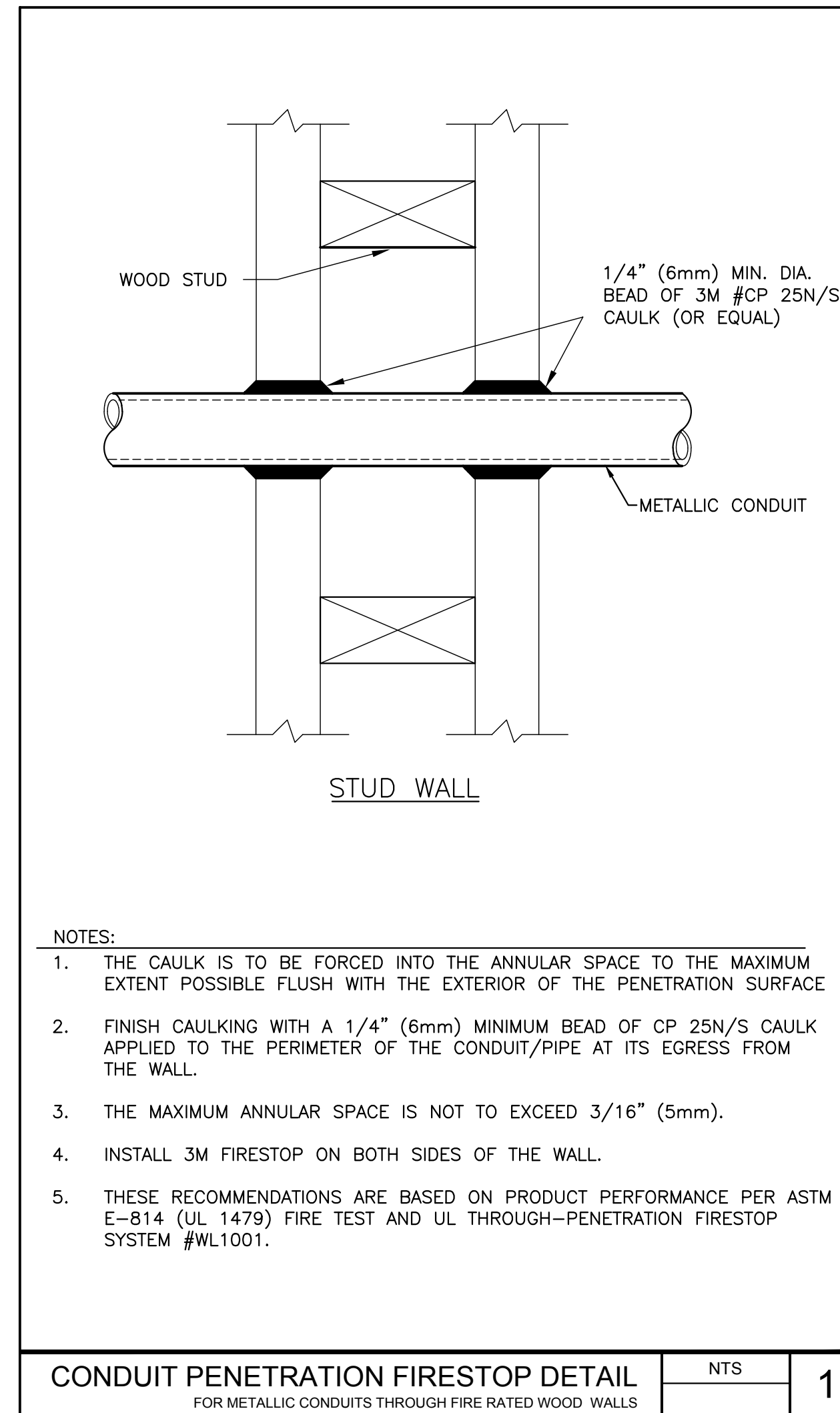
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FILENAME: WALL / CEILING OPENING FIRE BARRIER 1 OR 2 HOUR WALL NTS 2



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

- NOTES:
1. THE CAULK IS TO BE FORCED INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE.
 2. FINISH CAULKING WITH A 1/4" (6mm) MINIMUM BEAD OF CP 25N/S CAULK APPLIED TO THE PERIMETER OF THE CONDUIT/PIPE AT ITS EGRESS FROM THE WALL.
 3. THE MAXIMUM ANNULAR SPACE IS NOT TO EXCEED 3/16" (5mm).
 4. INSTALL 3M FIRESTOP ON BOTH SIDES OF THE WALL.
 5. THESE RECOMMENDATIONS ARE BASED ON PRODUCT PERFORMANCE PER ASTM E-814 (UL 1479) FIRE TEST AND UL THROUGH-PENETRATION FIRESTOP SYSTEM #WL1001.

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				(E)20/1	2	
3	(E)20/1	(E)GIRLS LOCKER ROOM	1,600			(E)20/1	4	
5	(E)20/1	(E)GIRLS LOCKER ROOM		1,600		(E)20/1	6	
7	(E)20/1	SPARE			1,600	(E)20/1	8	
9	(E)20/1	SPARE				(E)20/1	10	
11	(E)20/1	SPARE				(E)20/1	12	
13	(E)50/3	(E)CMS 35	7,918			(E)15/1	14	
15	-	-		7,918		-	16	
17	-	-			7,918	-	18	
19	(E)50/3	(E)PMP#36	7,918	7,918		(E)40/3	20	
21	-	-		7,918		-	22	
23	-	-			7,918	-	24	
25	(E)15/3	(E)PMP#5	2,375			(E)40/3	26	
27	-	-		2,375		-	28	
29	-	-			2,375	-	30	
31	(E)15/3	(E)PMP#2	2,375			(E)15/3	32	
33	-	-		2,375		-	34	
35	-	-			2,375	-	36	
37	(E)15/3	(E)PMP#3	2,375			(E)15/3	38	
39	-	-		2,375		-	40	
41	-	-			2,375	-	42	
43	(E)30/3	(E)LIGHT SUBTIED TO ABOVE			15,000	(E)170/3	44	
45	-	-			15,000	-	46	
47	-	-			15,000	-	48	
49	(E)100/3	(E)PANEL "LH"	23,333			(E)70/3	50	
51	-	-		23,333		-	52	
53	-	-			15,000	-	54	
55	PFB	SPACE				PFB	56	
57	-	-				-	58	
59	-	-				-	60	
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			(E) RECEPT	(E)20/1	2
3	(E)20/1	(E) NIGHT LIGHTING		1,500		(E) RECEPT	(E)20/1	4
5	(E)20/1	(E) EXHAUST FAN			1,080	(E) RECEPT OFFICE	(E)20/1	6
7	(E)20/1	(E) EXHAUST FAN	1,080			(E) RECEPT	(E)20/1	8
9	(E)20/1	(E) EXHAUST FAN		1,500		(E) DIVING POOL LIGHTS	(E)20/1	10
11	(E)20/1	(E) COMPRESSOR			1,900	(E) SWIMMING POOL LIGHTS	(E)20/1	12
13	(E)20/1	(E) EXISTING LOAD	1,600	1,371		(E) SWIMMING POOL LIGHTS	(E)20/1	14
15	(E)20/1	(E) EXISTING LOAD		1,600		(E) CLOTHES HANGER MOTOR	(E)20/1	16
17	(E)20/1	(E) EXISTING LOAD			1,380	(E) CLOTHES HANGER MOTOR	(E)20/1	18
19	(E)20/1	(E) EXISTING LOAD	1,600			(E) CLOTHES HANGER MOTOR	(E)20/1	20
21	(E)20/1	(E) EXISTING LOAD		1,600		(E) JORO PUMP TOCKER RM	(E)20/1	22
23	(E)20/1	(E) GIRLS LOCKER RM SPA TUB			800	(E) CHEMISTRY CONTROLLER	(E)140/1	24
25	(E)20/1	(E) PUMP BOLLER PUMP	1,371			(E) CHEMISTRY CONTROLLER	(E)140/1	26
27	(E)20/1	(E) VACUUM PUMP		1,371		(E) RECEPT	(E)20/1	28
29	(E)20/1	(E) RECEPT, TP-2			568	(E) HOT WATER CONTROLLER	(E)20/1	30
31	(E)20/1	(E) NICHORINE FEED PUMP	860			(E) POOL HEATER CONTROL	(E)20/1	32
33	(E)20/1	(E) NICHORINE FEED PUMP		860		(E) POOL HEATER CONTROL	(E)20/1	34
35	(E)20/1	(E) NIACID FEED PUMP			860	(E) POOL HEATER PUMP	(E)20/1	36
37	(E)20/1	(E) NIACID FEED PUMP	860			(E) POOL HEATER PUMP	(E)20/1	38
39	(E)20/1	(E) NIPOO WATER FILL SYSTEM		500		(E) EXHAUST FAN CEF-1	(E)20/1	40
41	(E)20/1	(E) CIRCULATION PUMP			110	(E) EXHAUST FAN CEF-2	(E)20/1	42
43	(E)70/3	(E) FEED TOP SECTION "LH"				(E) LOAD	(E)15/3	44
45	-	-				(E) LOAD	-	46
47	-	-				(E) LOAD	-	48
49	(E)20/3	(E) LOAD	1,921			(E) LOAD	(E)15/3	50
51	-	(E) LOAD		1,921		(E) LOAD	-	52
53	-	(E) LOAD			1,921	(E) LOAD	-	54
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

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

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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
SCHEDULES AND DETAILS

SHEET
E601

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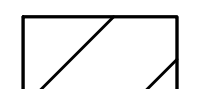

SWIMMING POOL DATA

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

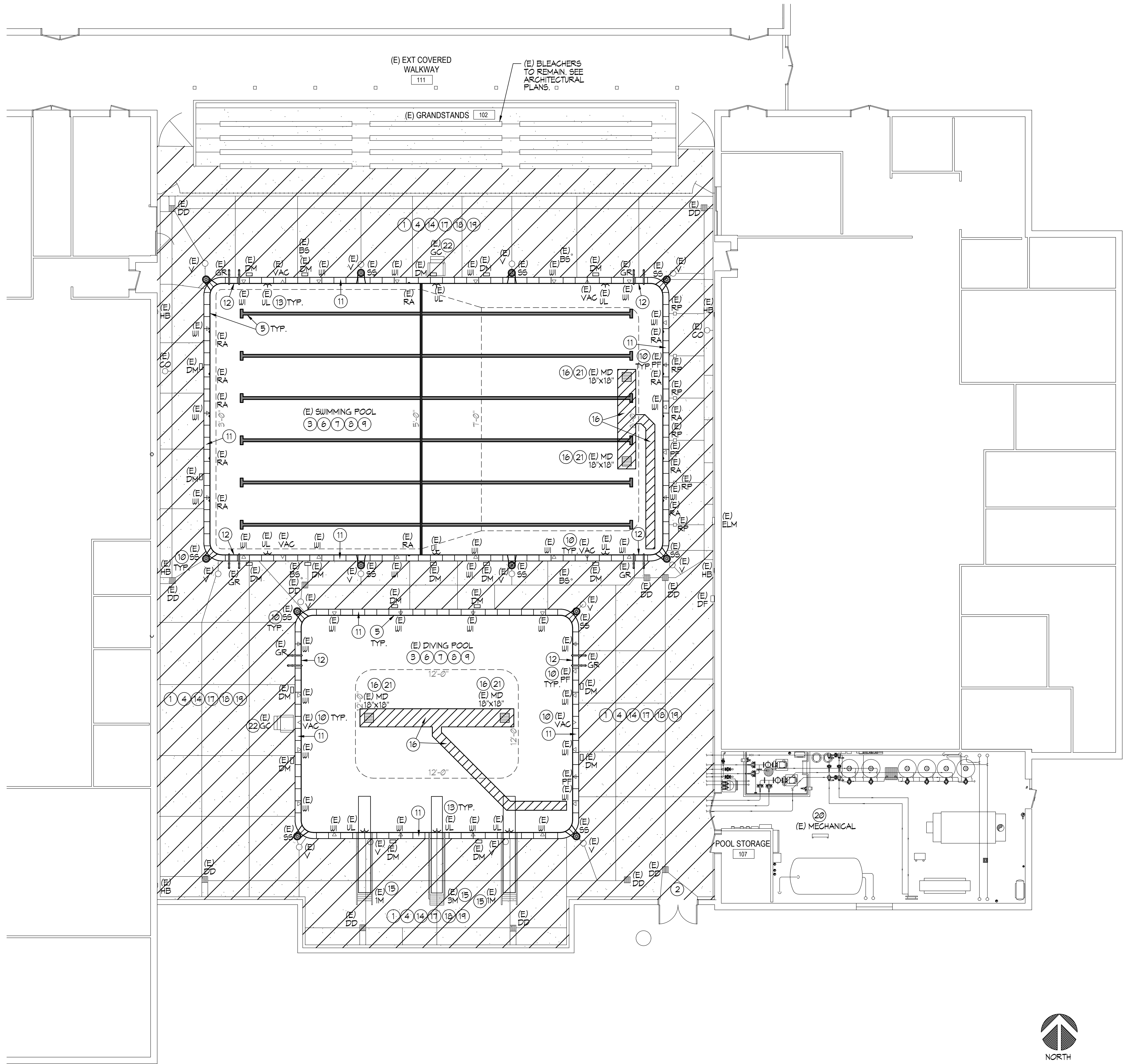
SURFACE AREA	=	1,616 SQ. FT.
PERIMETER	=	159 FT.
DEPTHS	=	12'-0"
VOLUME	=	145,052 GAL.
6 HR TURNOVER	=	403 GPM

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

- 1 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.
- 2 COORDINATE INGRESS/EGRESS AND HAUL ROUTES WITH THE OWNER PRIOR TO START OF WORK.
- 3 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.
- 4 COORDINATE PROPOSED CONTRACTOR STAGING AREA WITH THE OWNER PRIOR TO CONSTRUCTION. PROVIDE TEMPORARY PHONE, TOILET(S), FENCING, GATES, ETC. AS REQUIRED.
- 5 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.
- 6 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.
- 7 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.
- 8 PROVIDE NEW TILE AND PLASTER FINISHES PER PLANS. REPLACE ANY DAMAGED OR LOST POOL FITTINGS AND GRATES LOST DURING DEMOLITION/CONSTRUCTION AS REQUIRED.
- 9 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.
- 10 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.
- 11 PROVIDE NEW POOL COPING TO MATCH NEW DECKING, COLOR/FINISH.
- 12 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 CYCLOCAC STEPS SHALL BE INSTALLED FLUSH WITH NON-SHRINK GROUT.
- 13 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.
- 14 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.
- 15 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.
- 16 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.
- 17 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.
- 18 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.
- 19 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.
- 20 REMOVE AND REPLACE EXISTING SWIMMING POOL MECHANICAL EQUIPMENT AS SHOWN ON SHEET SP-411 AND SP-412.
- 21 CARE IS TO BE TAKEN DURING POOL DRAIN DOWN, TO RELIEVE ANY HYDROSTATIC PRESSURE THROUGH EXISTING HYDROSTATIC RELIEF VALVES AND DRAINING THE POOL SLOWLY.
- 22 REMOVE EXISTING LIFEGUARD CHAIR.



SWIMMING POOL / DIVING POOL DEMOLITION PLAN

1/8"=1'-0"

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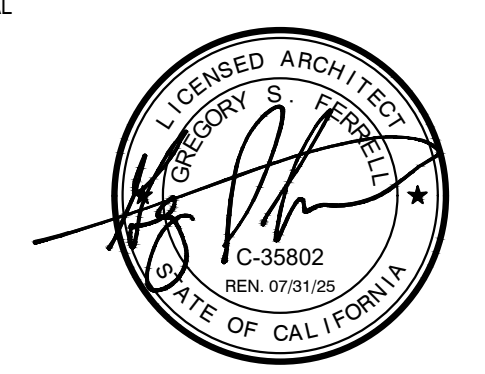
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SEAL



PROJECT
 JOHN F KENNEDY HIGH SCHOOL
 SWIMMING POOL UPGRADE

6715 GLORIA DR
 SACRAMENTO, CA 95831

CLIENT
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

ISSUED

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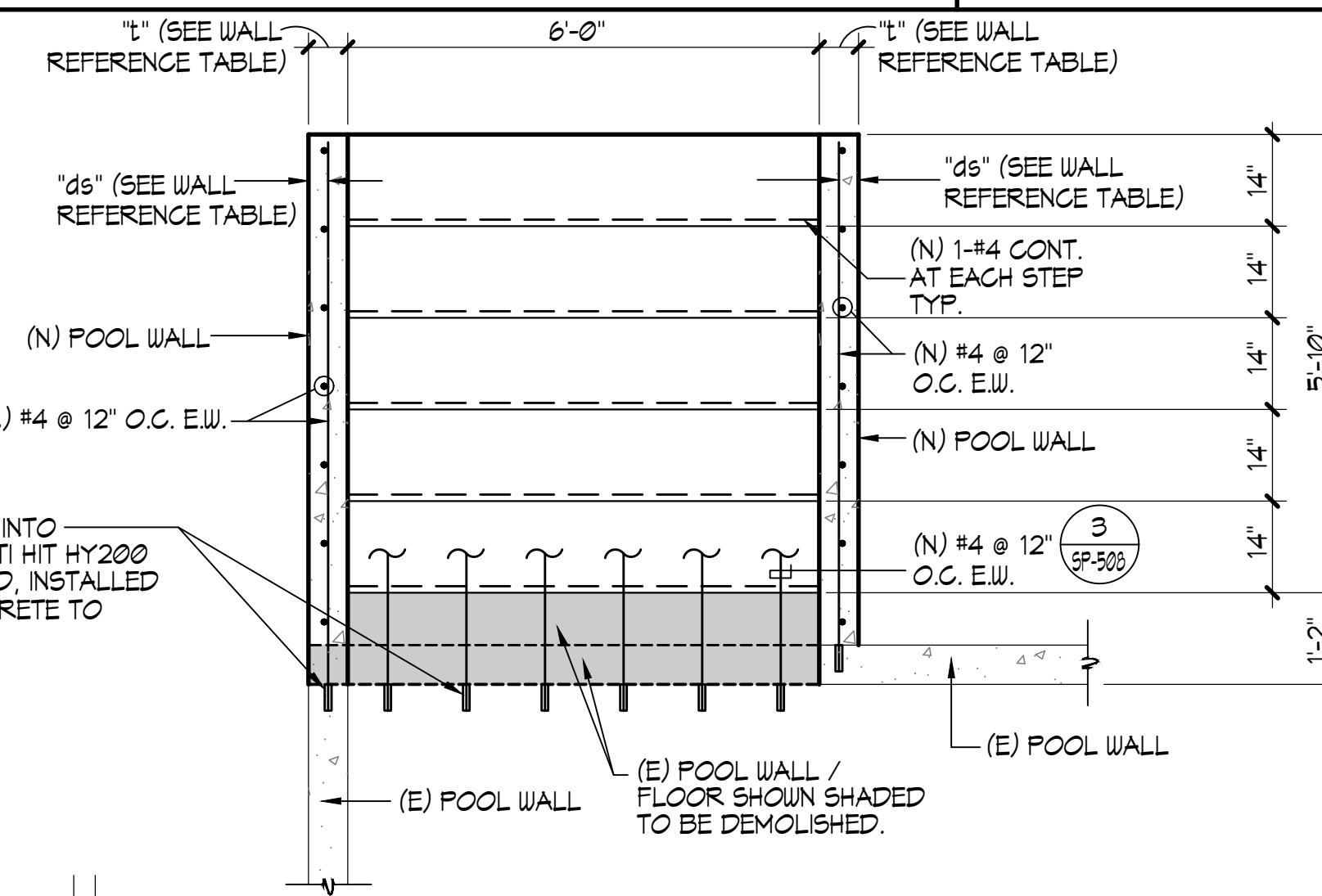
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TITLE
 SWIMMING POOL / DIVING
 POOL DEMOLITION PLAN

SHEET
 SP-111

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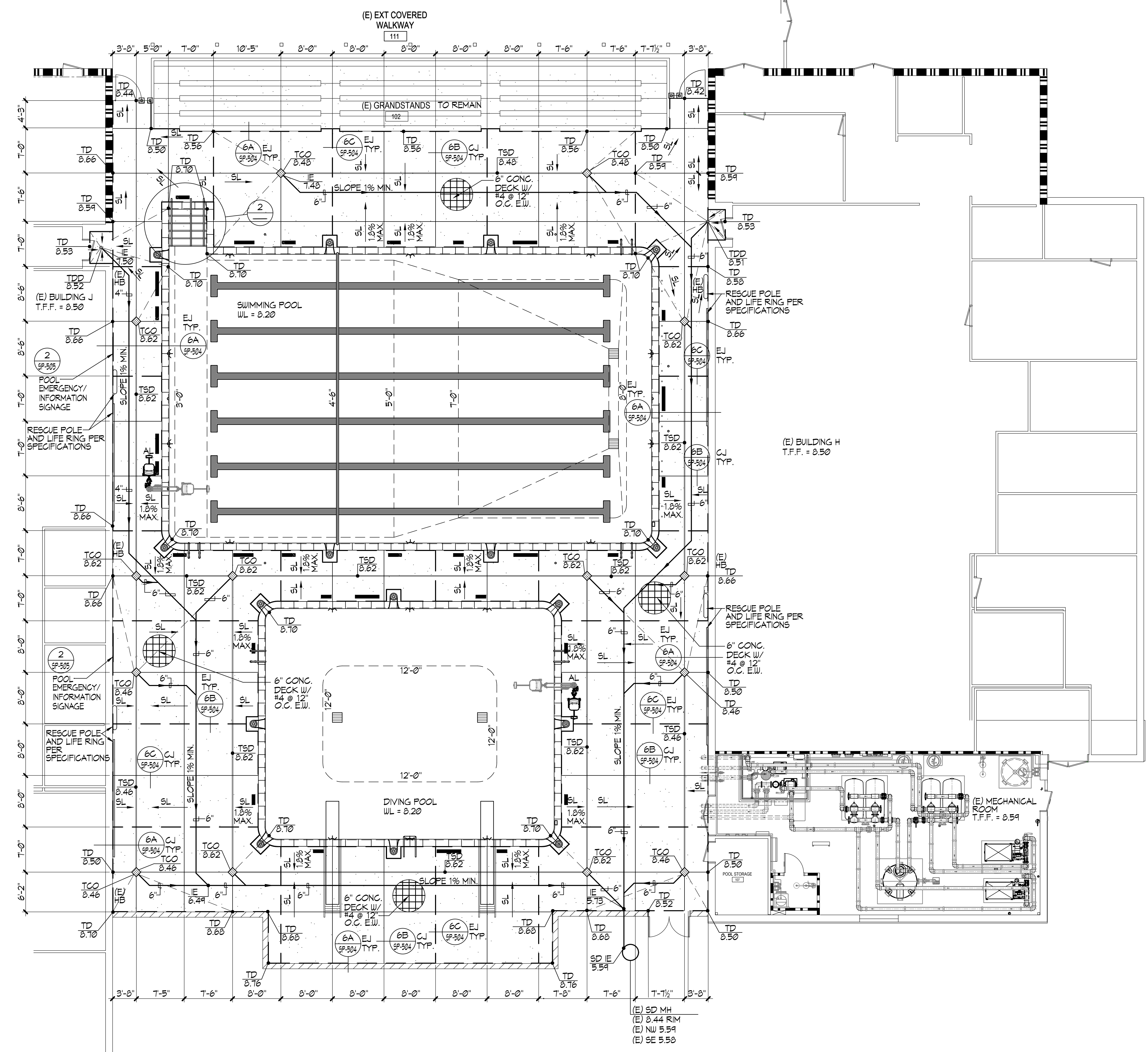
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2 STAIRS REINFORCEMENT PLAN
1/8"=1'-0"

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

- 2**
1. COORDINATE SIGNAGE PLACEMENT AND COLOR SCHEME WITH OWNER PRIOR TO INSTALLATION.
 2. DECKS SHALL HAVE 1% MIN. SLOPE AND 1.8% MAX. SLOPE TO DRAINS.
 3. ALL POOL DECKING SHALL BE NON-SLIP AND NON-ABRASIVE MEDIUM BROOM FINISH WITH NATURAL GRAY CONCRETE UNLESS OTHERWISE NOTED.
 4. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND QUANTITY OF REQUIRED EXITS, DRINKING FOUNTAINS, AND SANITARY FIXTURES.
 5. 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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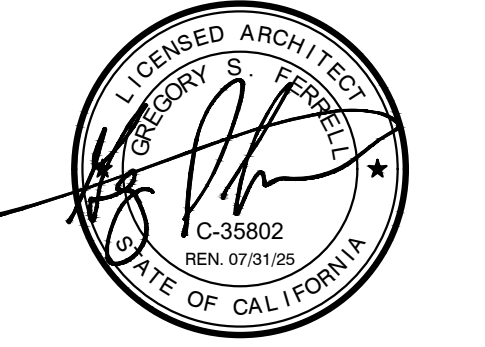
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PROJECT
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SWIMMING POOL UPGRADE**

6715 GLORIA DR
SACRAMENTO, CA 95831

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

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TITLE
**SWIMMING POOL /
DIVING POOL DECK
PLAN**

SHEET
SP-112

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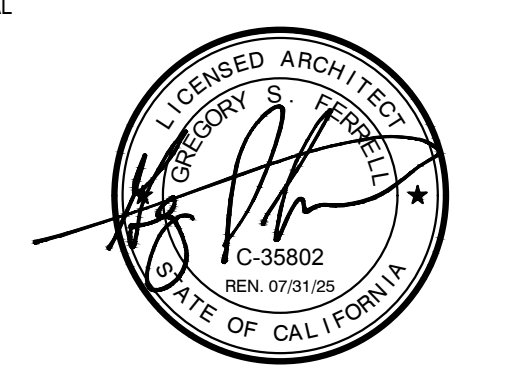
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 SWIMMING POOL UPGRADE**

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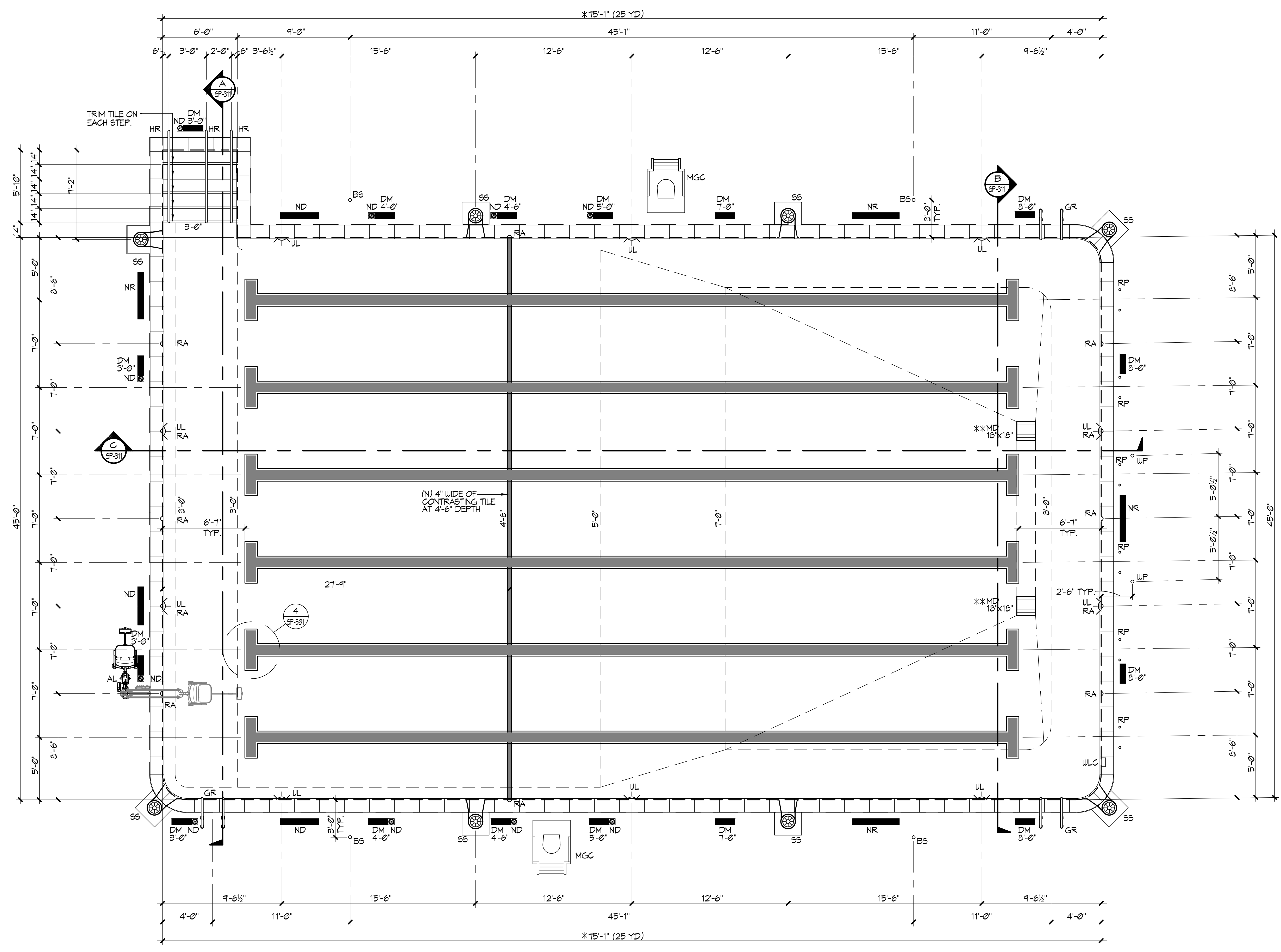
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TITLE
**SWIMMING POOL
 LAYOUT PLAN**

SHEET
SP-113



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)
UL	=	UNDERWATER LIGHT	(3)
DM	=	DEPTH MARKER	(6)
NR	=	NO RUNNING	(7)
ND	=	NO DIVING	(1)
GR	=	GRABRAIL	(1)
MGC	=	MOVEABLE GUARD CHAIR	(4)
AL	=	ACCESSIBLE LIFT	(7)
SS	=	SURFACE SKIMMER	(1)
BS	=	BACKSTROKE STANCHION	(4)
WLC	=	WATER LEVEL CONTROLLER	(2)
RP	=	RACING PLATFORM	(2)
RA	=	ROPE ANCHOR	(3)
WP	=	WATERPOLO GOAL	(6)
HR	=	HANDRAIL	(3)

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 0.3M (2'-7 1/2") 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.

SWIMMING POOL LAYOUT PLAN

1/8"=1'-0"

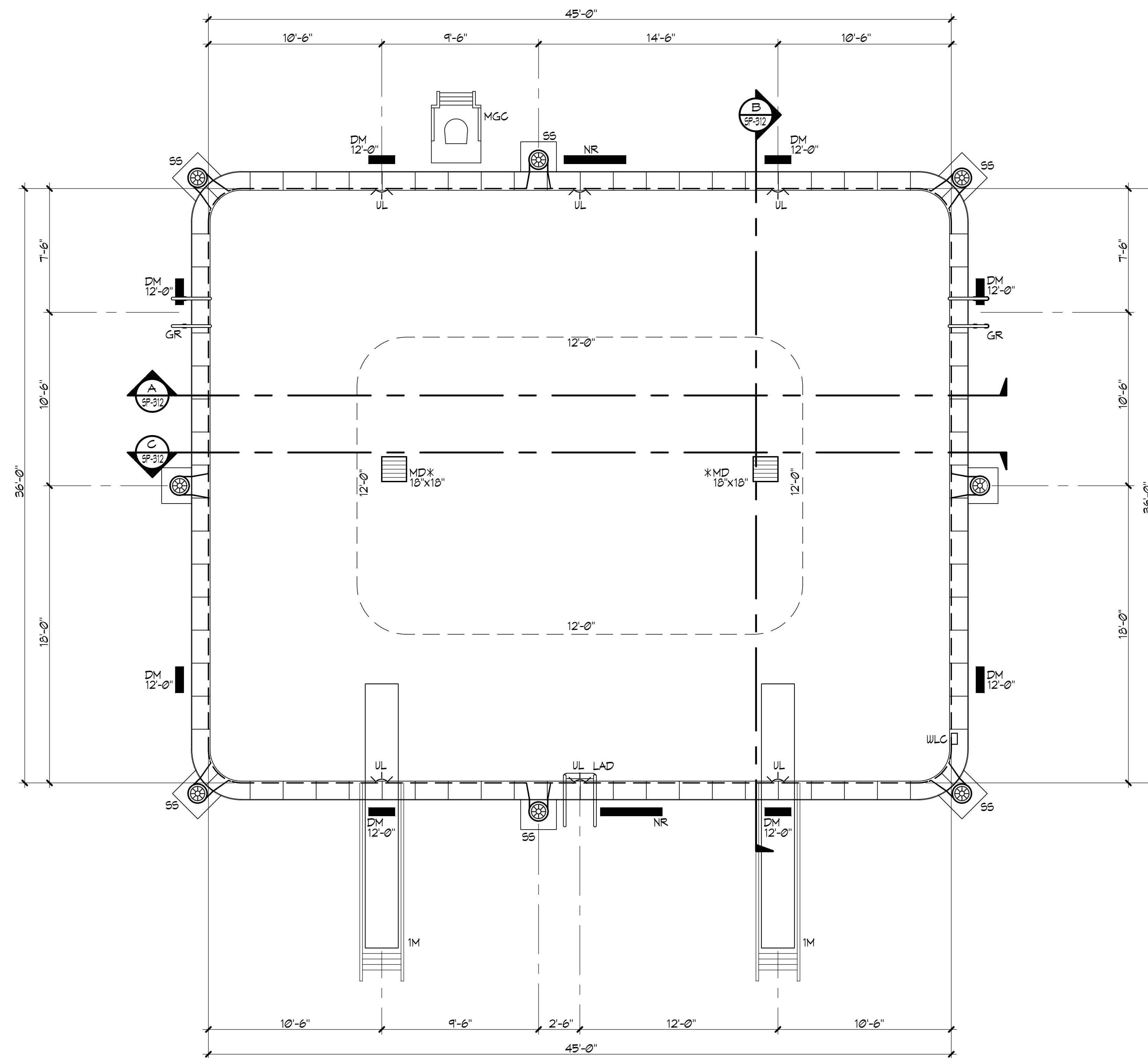
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DIVING POOL DATA

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.



DIVING POOL LAYOUT PLAN

1/4"=1'-0"

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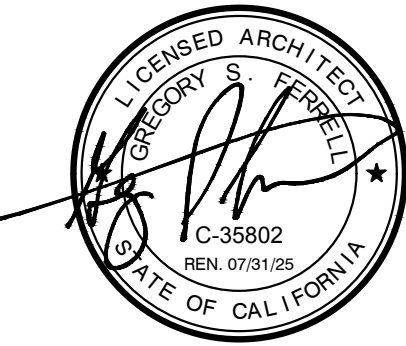
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760.438.8400

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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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TITLE

**DIVING POOL
LAYOUT PLAN**

SHEET

SP-114

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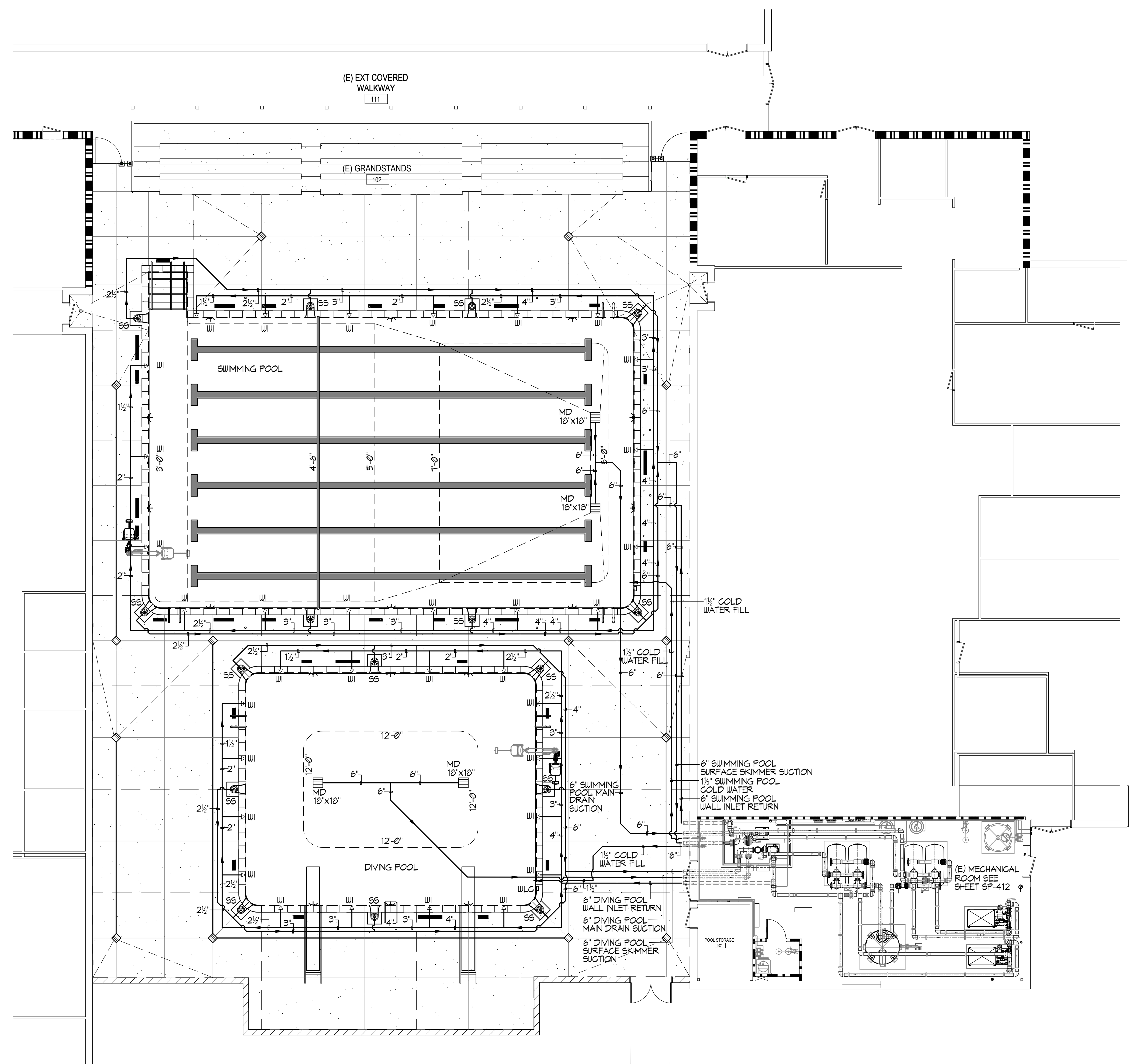
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SWIMMING POOL DATA

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

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	3
SS	=	SURFACE SKIMMER	1
WLC	=	WATER LEVEL CONTROLLER	2
WI	=	WALL INLET	7

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PROJECT
JOHN F KENNEDY HIGH SCHOOL
SWIMMING POOL UPGRADE

6715 GLORIA DR
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CLIENT
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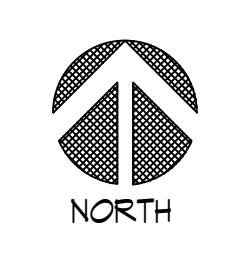
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TITLE
SWIMMING POOL /
DIVING POOL PIPING
PLAN

SHEET
SP-115

SWIMMING POOL / DIVING POOL PIPING PLAN

1/8"=1'-0"



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

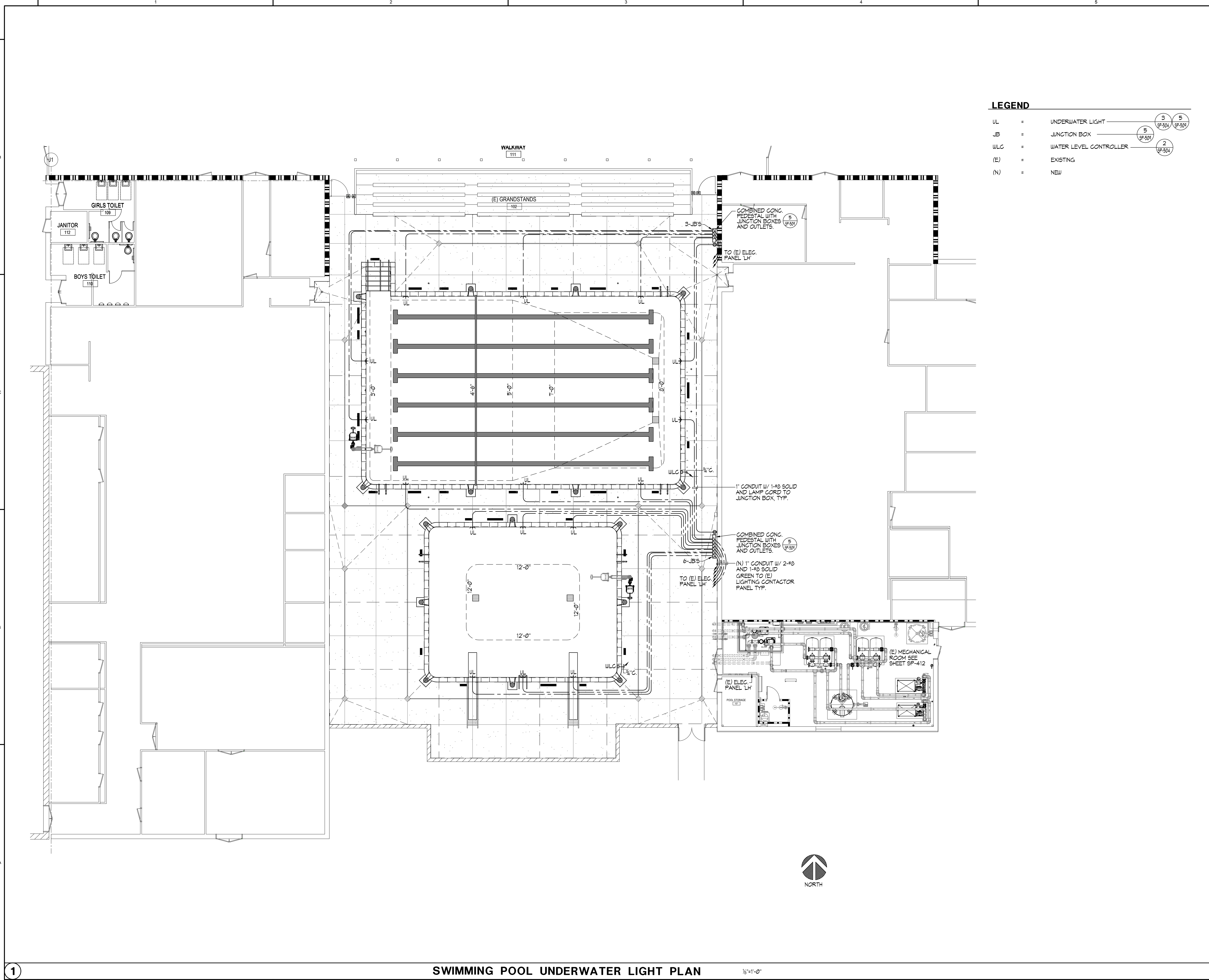
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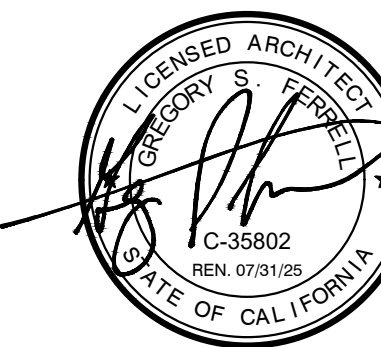
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 AquaticDesignGroup.com
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TITLE
**SWIMMING POOL /
 DIVING POOL
 UNDERWATER LIGHT
 PLAN**

SHEET

SP-116

SWIMMING POOL UNDERWATER LIGHT PLAN

1/8"=1'-0"

1

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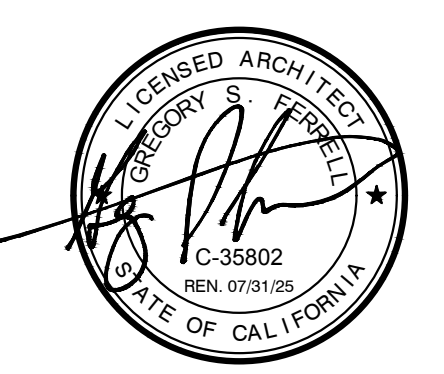
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SWIMMING POOL UPGRADE**

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SACRAMENTO, CA 95831

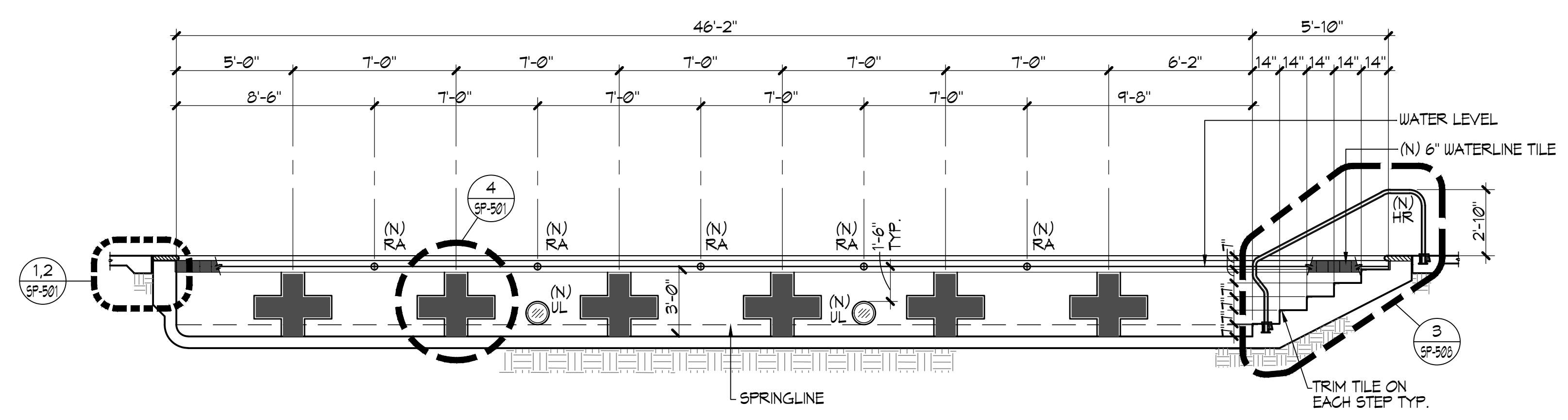
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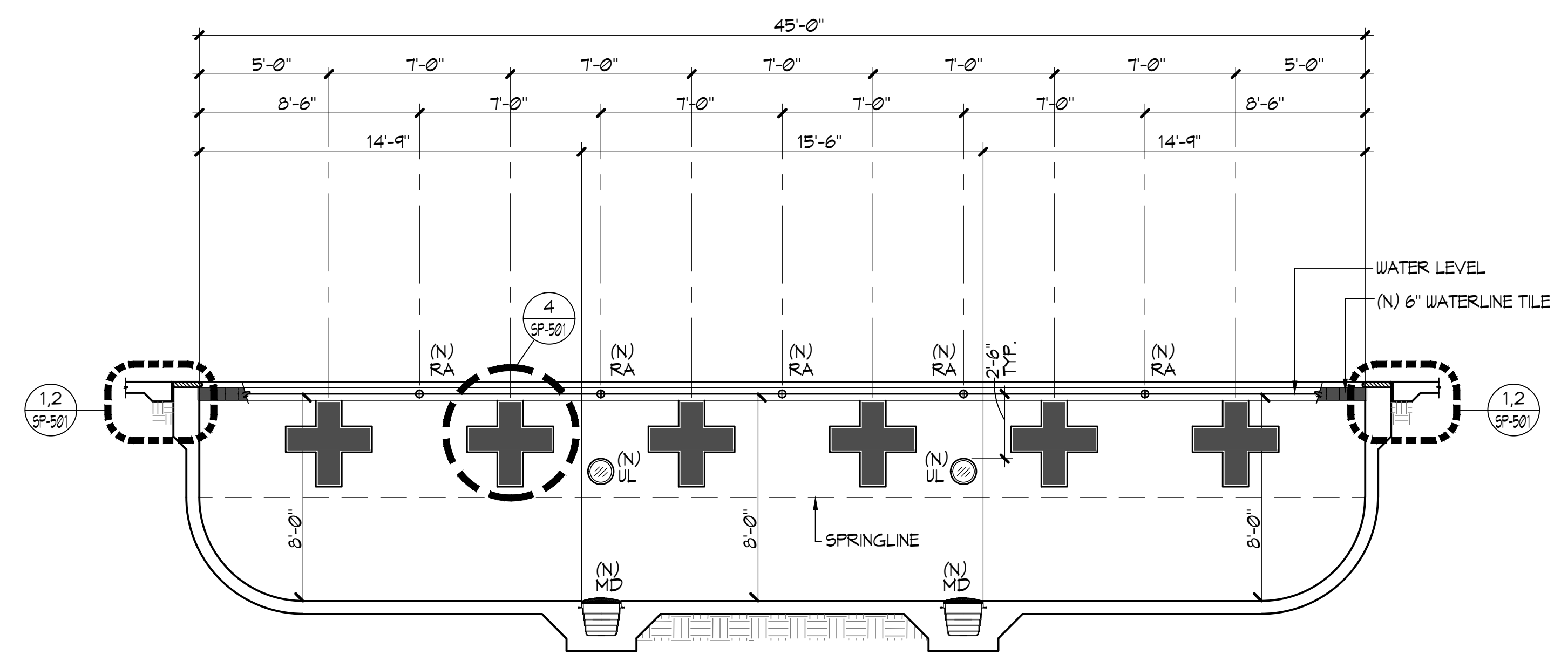
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TITLE
**SWIMMING POOL
SECTIONS**

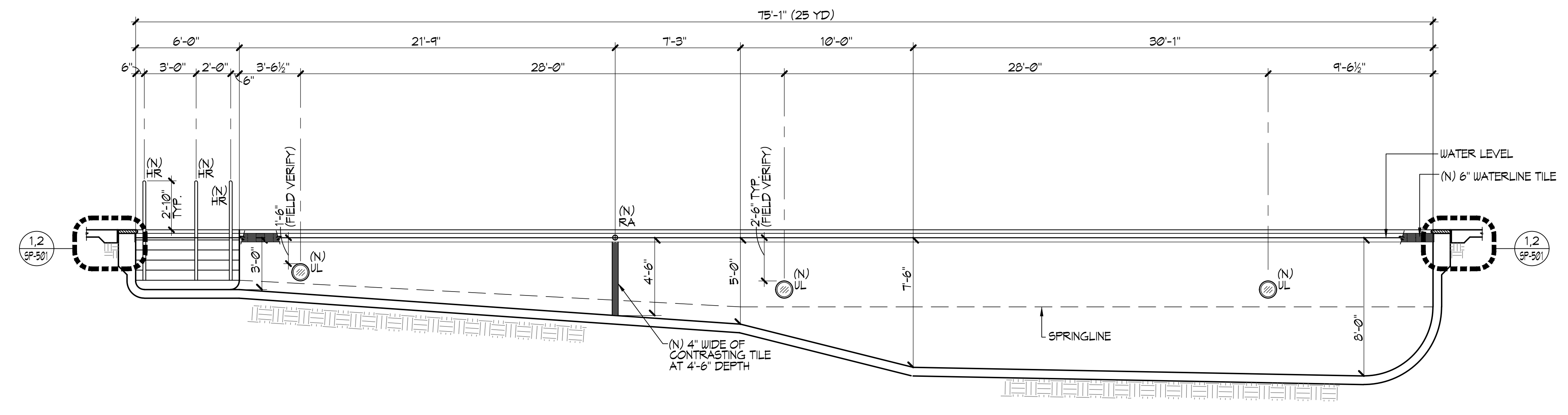
SHEET
SP-311



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"

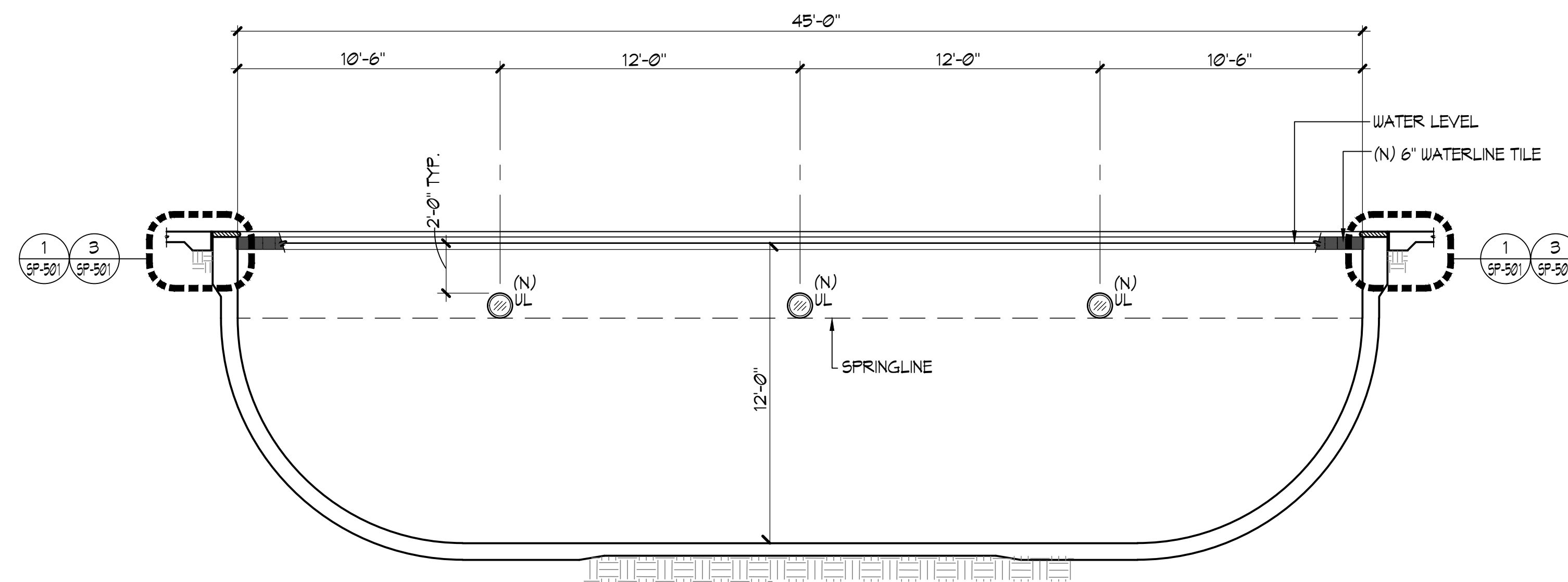
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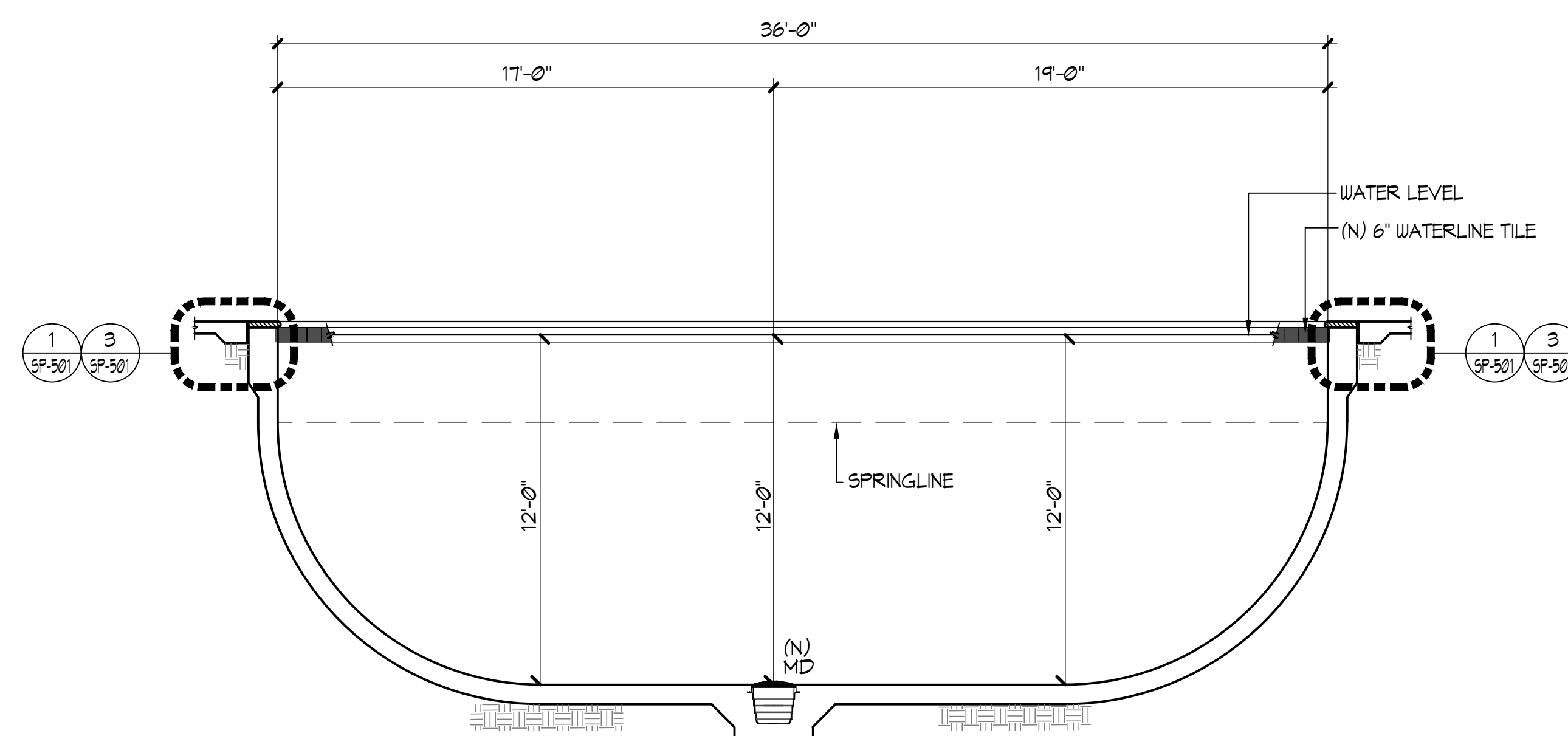
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A

DIVING POOL SECTION

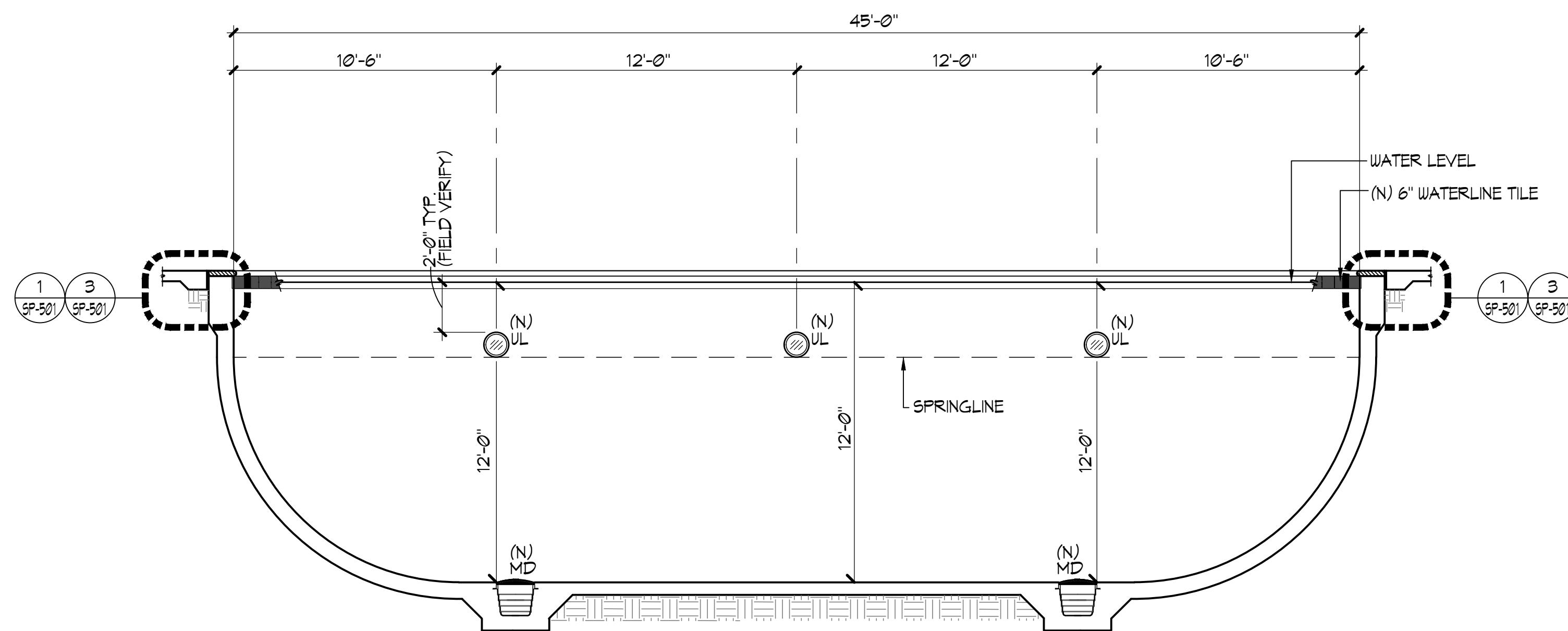
1/4" = 1'-0"



B

DIVING POOL SECTION

1/4" = 1'-0"



C

DIVING POOL SECTION

1/4" = 1'-0"

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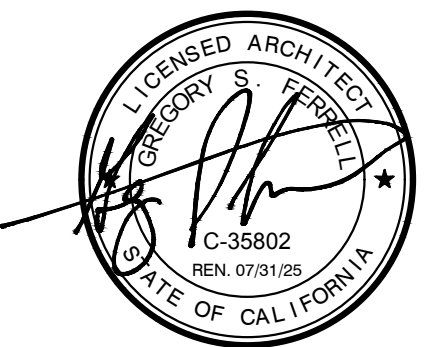
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 SACRAMENTO, CA 95831

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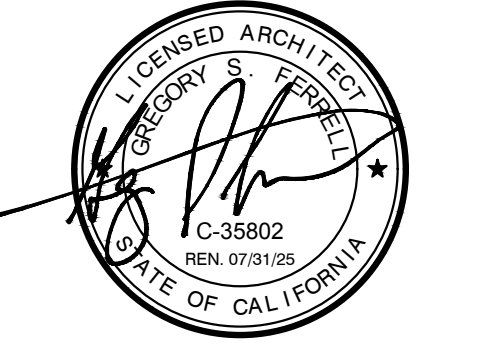
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TITLE
**DIVING POOL
 SECTIONS**

SHEET
SP-312



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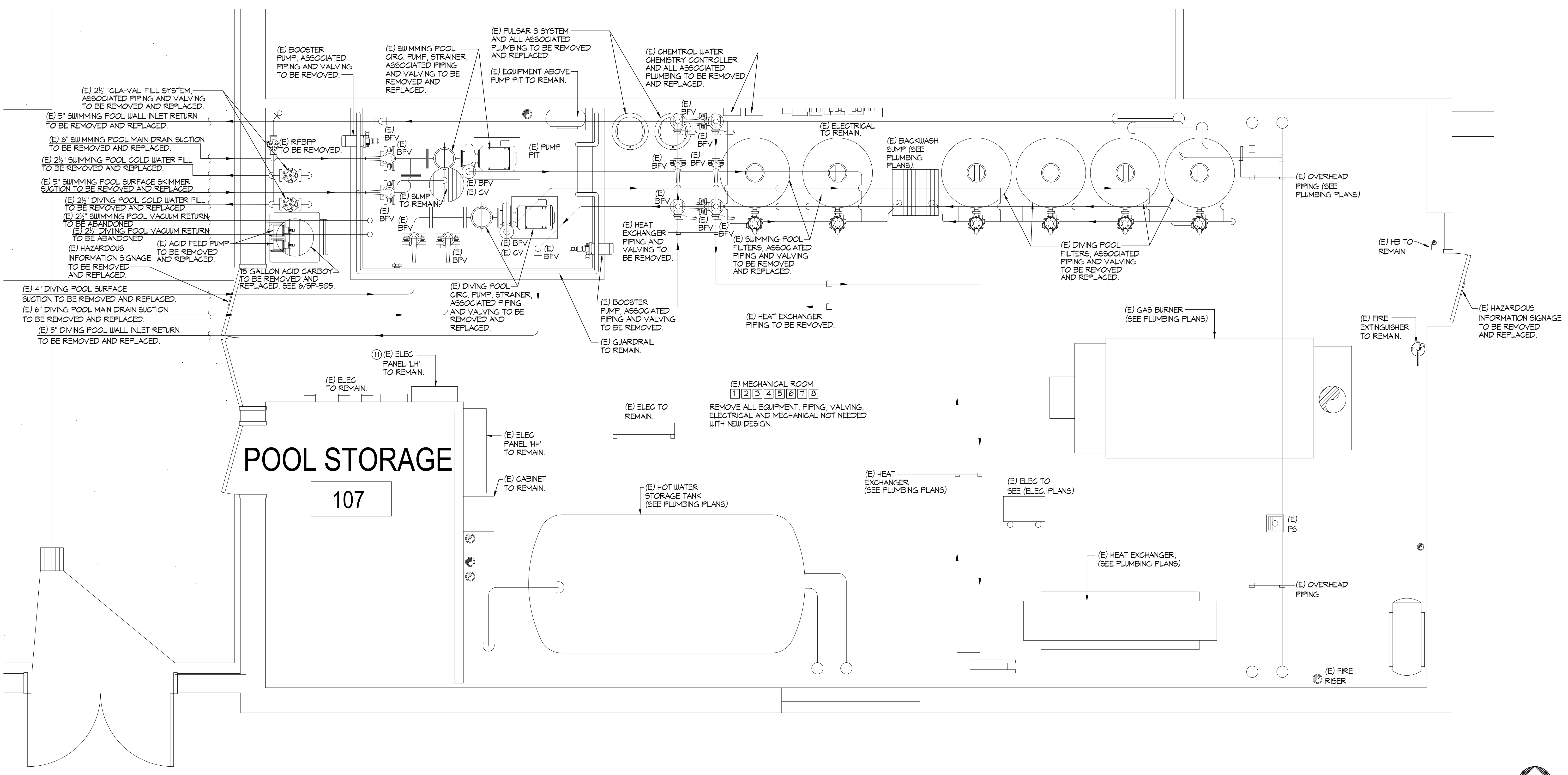
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DEMOLITION NOTES

- 1 COORDINATE DEMOLITION WORK WITH THE OWNER, PROTECT ALL EXISTING WORK, BUILDINGS, PIPING, EQUIPMENT, UTILITIES, ETC. TO REMAIN.
- 2 REPAIR OR REPLACE ANY DAMAGED ITEMS DUE TO DEMOLITION AND/OR CONSTRUCTION.
- 3 COORDINATE INGRESS/EGRESS AND HAUL ROUTES WITH THE CONTRACTOR PRIOR TO START OF WORK.
- 4 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.
- 5 THE OWNER SHALL IDENTIFY, REMOVE, SALVAGE ANY ITEMS AS DESIRED PRIOR TO CONTRACTOR MOVE-IN.
- 6 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.
- 7 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.
- 8 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



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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 SPCS 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 BECSYS CS-BECSYS1-BP-E WATER CHEMISTRY CONTROLLER, TWO (2) TOTAL, PROVIDE COMPLETE SYSTEM CONTROL PACKAGE, BECSYS 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 C021 = CO2 INJECTION
 BFFV = BUTTERFLY VALVE (E) = EXISTING
 CV = CHECK VALVE (N) = NEW
 FM = FLOWMETER
 BU = BACKWASH
 AI = ACID INJECTION
 C1 = 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-4366)	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.	3¼"	40	3¼"	25
1½" DIA.	4"	60	4"	35
2" DIA.	4¾"	125	4¾"	50

MEP COMPONENT ANCHORAGE

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

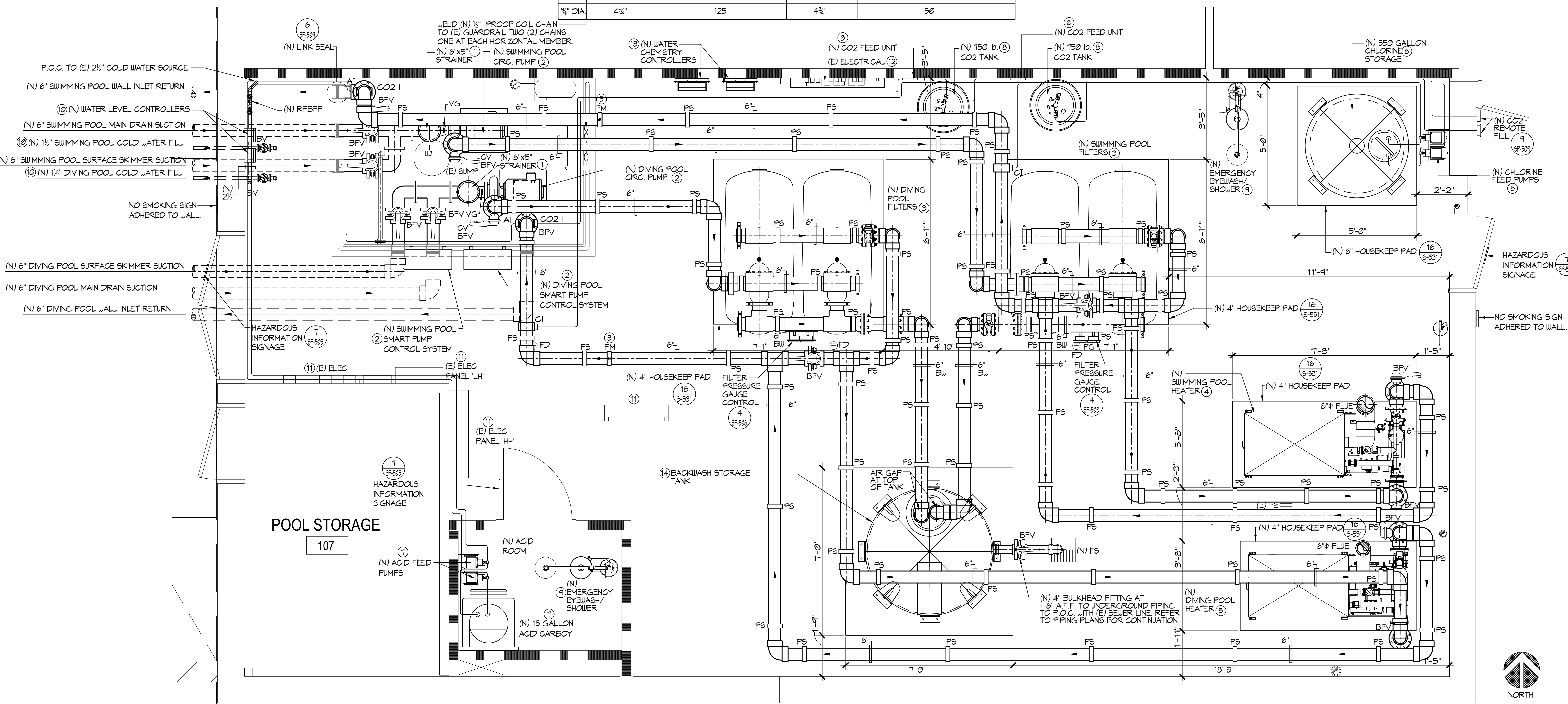
1. EXPANSION OR WEDGE ANCHORS INTO CONCRETE: HILTI KB TZ 2 (ICC ESR-4266) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
2. EXPANSION OR WEDGE ANCHORS INTO MASONRY: HILTI KB TZ 2 (ICC ESR-4561) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
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.

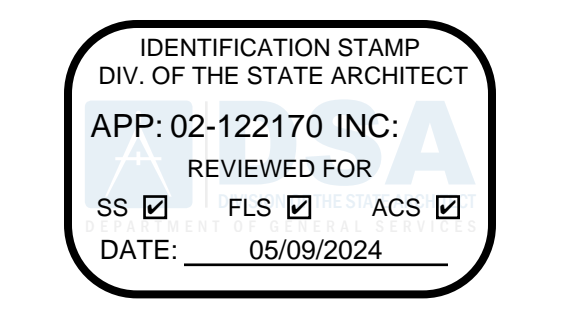
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL 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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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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CLIENT PROJECT NO.	700.00.007
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TITLE
MECHANICAL ROOM LAYOUT PLAN

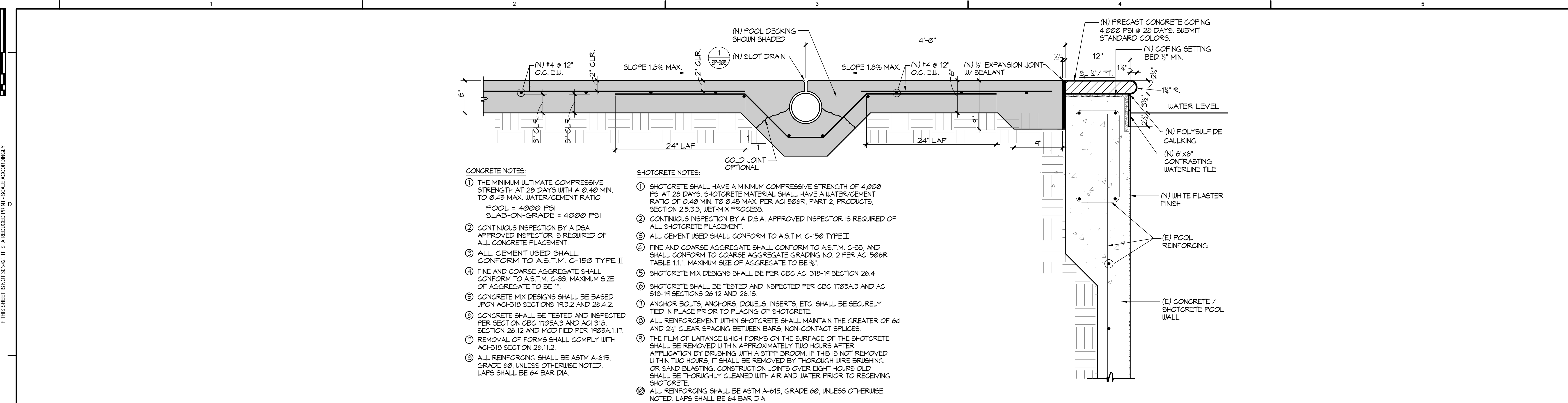
SHEET
SP-412

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- CONCRETE NOTES:**
- THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS WITH A 0.40 MIN. TO 0.45 MAX. WATER/CEMENT RATIO
POOL = 4000 PSI
SLAB-ON-GRADE = 4000 PSI
 - CONTINUOUS INSPECTION BY A DSA APPROVED INSPECTOR IS REQUIRED FOR ALL CONCRETE PLACEMENT.
 - ALL CEMENT USED SHALL CONFORM TO A.S.T.M. C-150 TYPE II.
 - FINE AND COARSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-33, MAXIMUM SIZE OF AGGREGATE TO BE 1".
 - CONCRETE MIX DESIGNS SHALL BE BASED UPON ACI-318 SECTIONS 19.3.2 AND 26.4.2.
 - CONCRETE SHALL BE TESTED AND INSPECTED PER SECTION CBC 1105A.3 AND ACI 318 SECTION 26.12 AND MODIFIED PER 1905A.1.11.
 - REMOVAL OF FORMS SHALL COMPLY WITH ACI-318 SECTION 26.11.2.
 - ALL REINFORCING SHALL BE ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED. LAPS SHALL BE 64 BAR DIA.

- SHOTCRETE NOTES:**
- SHOTCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. SHOTCRETE MATERIAL SHALL HAVE A WATER/CEMENT RATIO OF 0.40 MIN. TO 0.45 MAX. PER ACI 506R, PART 2, PRODUCTS, SECTION 2.5.3.3, WET-MIX PROCESS.
 - CONTINUOUS INSPECTION BY A D.S.A. APPROVED INSPECTOR IS REQUIRED OF ALL SHOTCRETE PLACEMENT.
 - ALL CEMENT USED SHALL CONFORM TO A.S.T.M. C-150 TYPE II.
 - FINE AND COARSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-33, AND SHALL CONFORM TO COARSE AGGREGATE GRADING NO. 2 PER ACI 506R TABLE 1.1.1, MAXIMUM SIZE OF AGGREGATE TO BE 1".
 - SHOTCRETE MIX DESIGNS SHALL BE PER CBC ACI 318-19 SECTION 26.4.
 - SHOTCRETE SHALL BE TESTED AND INSPECTED PER CBC 1105A.3 AND ACI 318-19 SECTIONS 26.12 AND 26.13.
 - ANCHOR BOLTS, ANCHORS, DOUELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACING OF SHOTCRETE.
 - ALL REINFORCEMENT WITHIN SHOTCRETE SHALL MAINTAIN THE GREATER OF 6d AND 2d_s CLEAR SPACING BETWEEN BARS, NON-CONTACT SPLICES.
 - THE FILM OF LANTANCE WHICH FORMS ON THE SURFACE OF THE SHOTCRETE SHALL BE REMOVED WITHIN APPROXIMATELY TWO HOURS AFTER APPLICATION BY BRUSHING WITH A STIFF BROOM. IF THIS IS NOT REMOVED WITHIN TWO HOURS, IT SHALL BE REMOVED BY THOROUGH WIRE BRUSHING OR SAND BLASTING. CONSTRUCTION JOINTS OVER EIGHT HOURS OLD SHALL BE THOROUGHLY CLEANED WITH AIR AND WATER PRIOR TO RECEIVING SHOTCRETE.
 - ALL REINFORCING SHALL BE ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED. LAPS SHALL BE 64 BAR DIA.

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

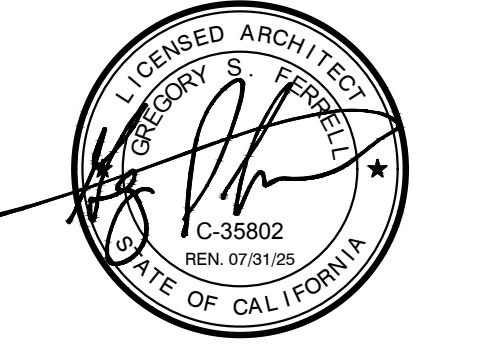
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CONSULTANT

AQUATIC
DESIGN GROUP
2226 Faraday Ave., Carlsbad, CA 92008
AquaticDesignGroup.com
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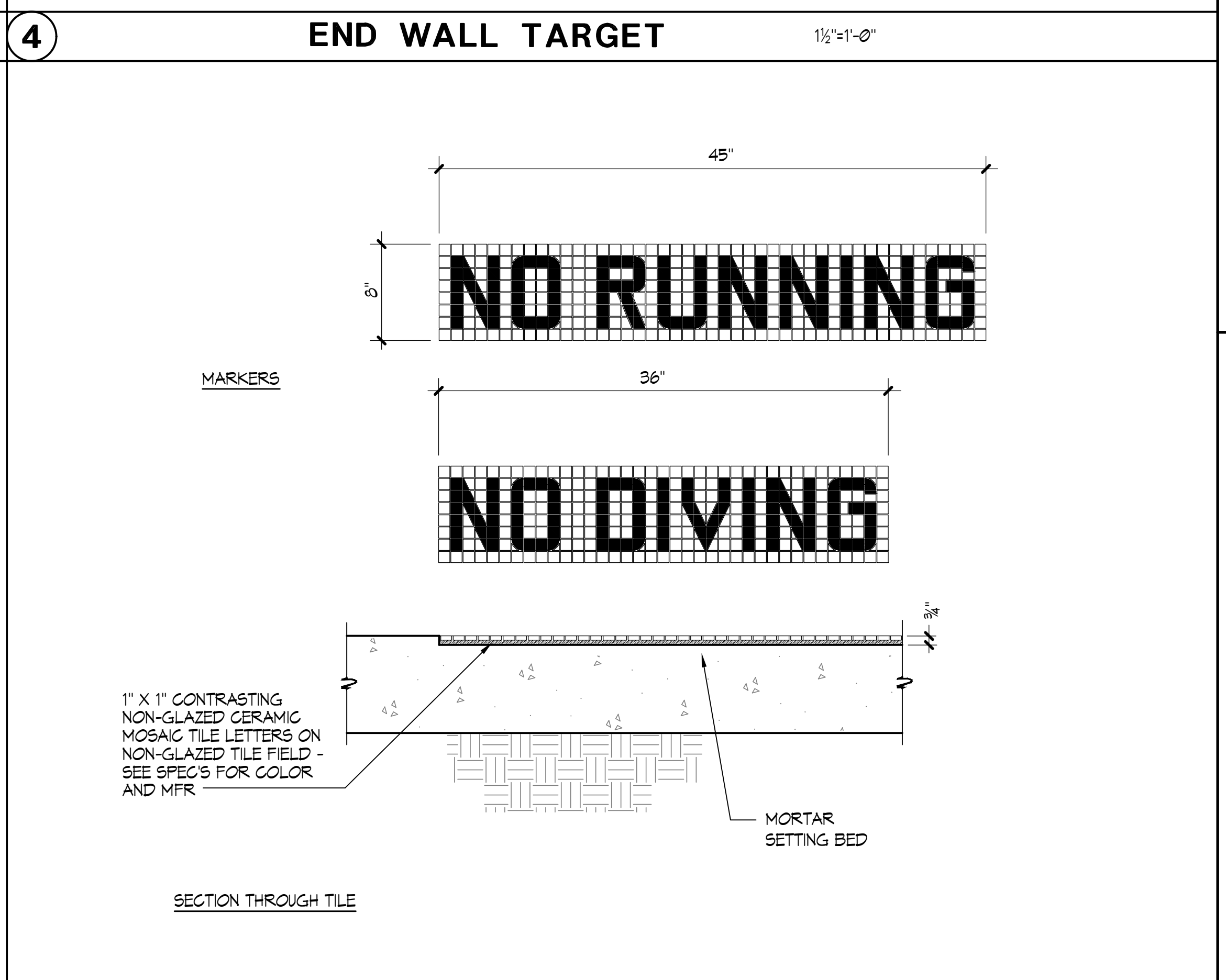
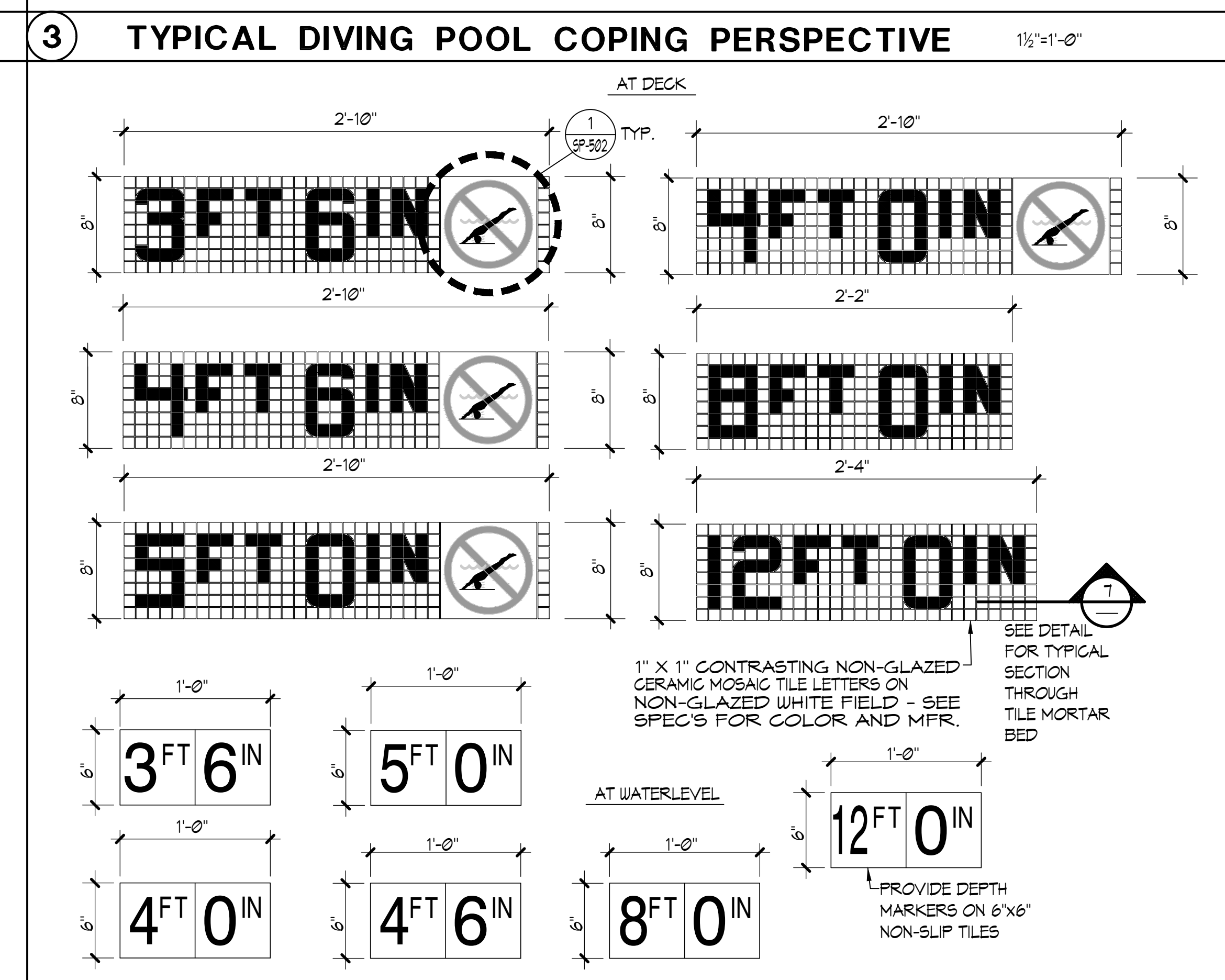
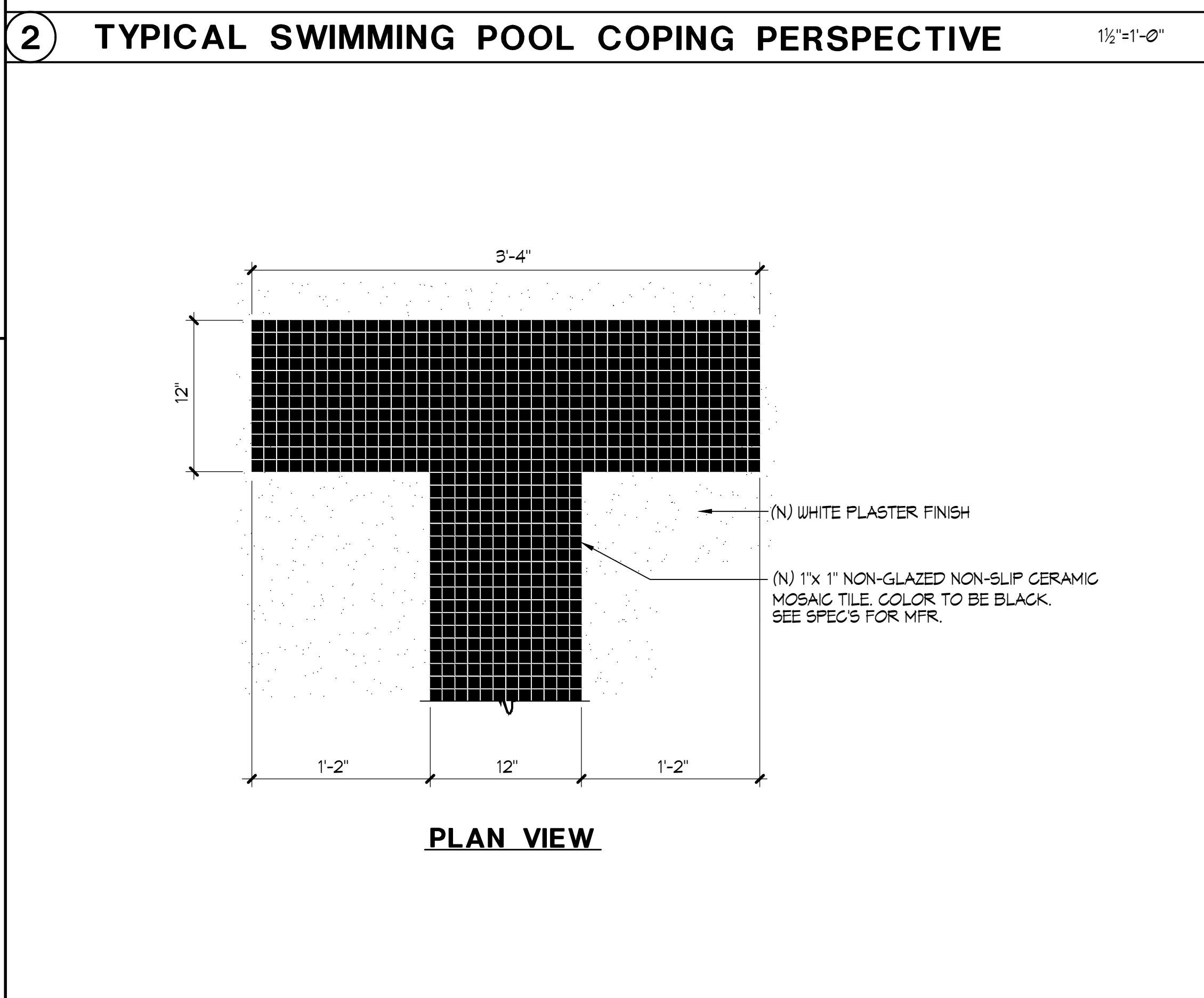
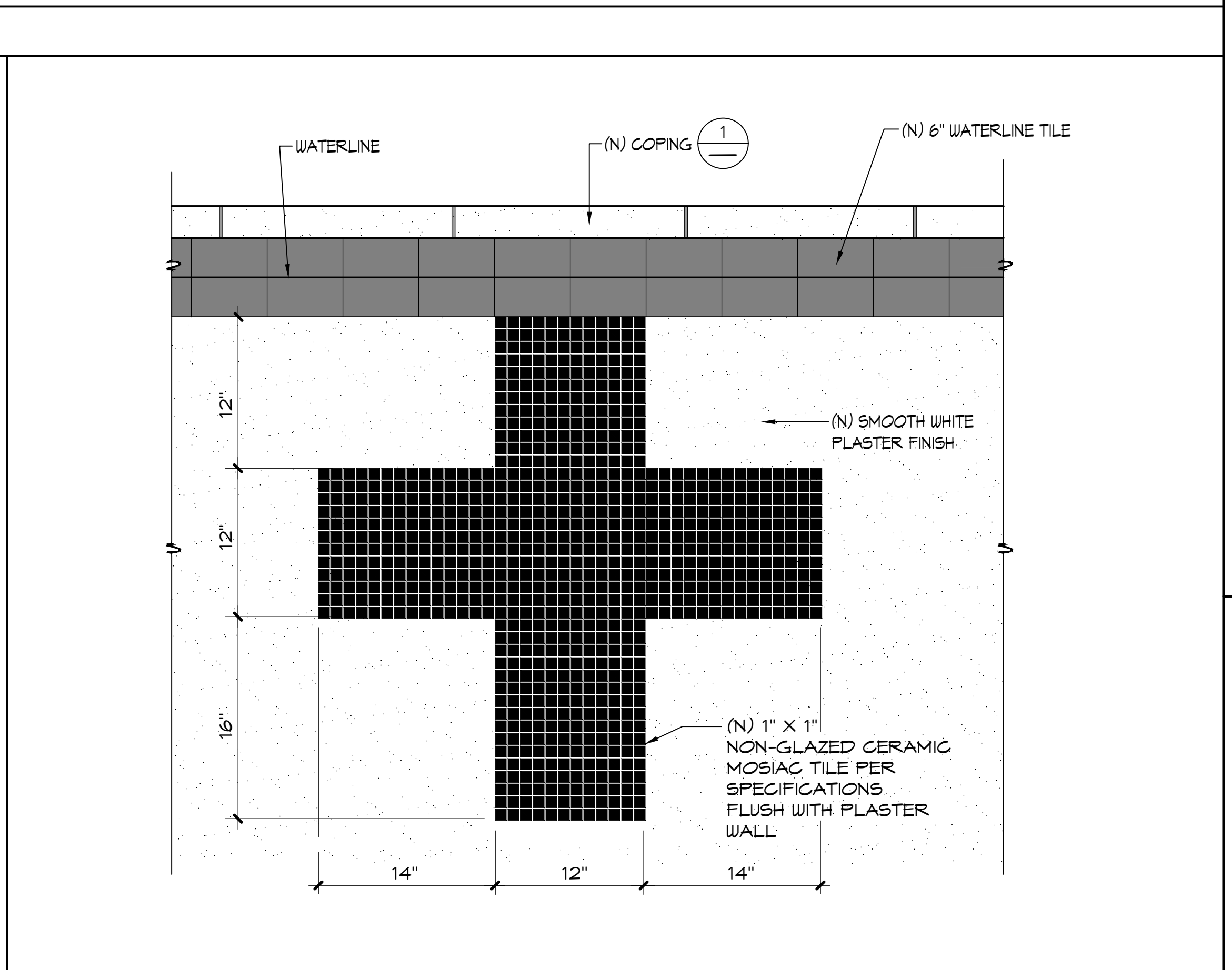
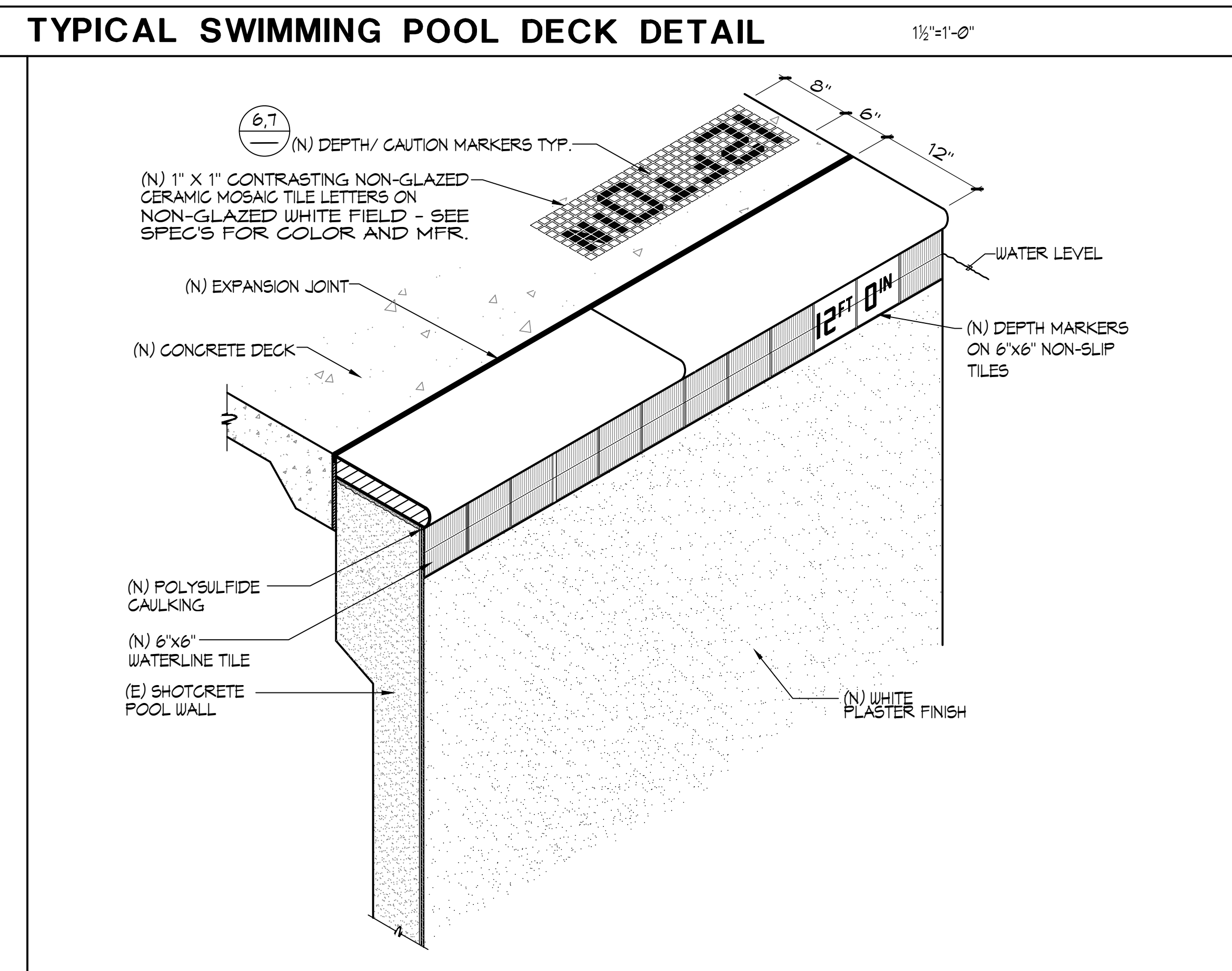
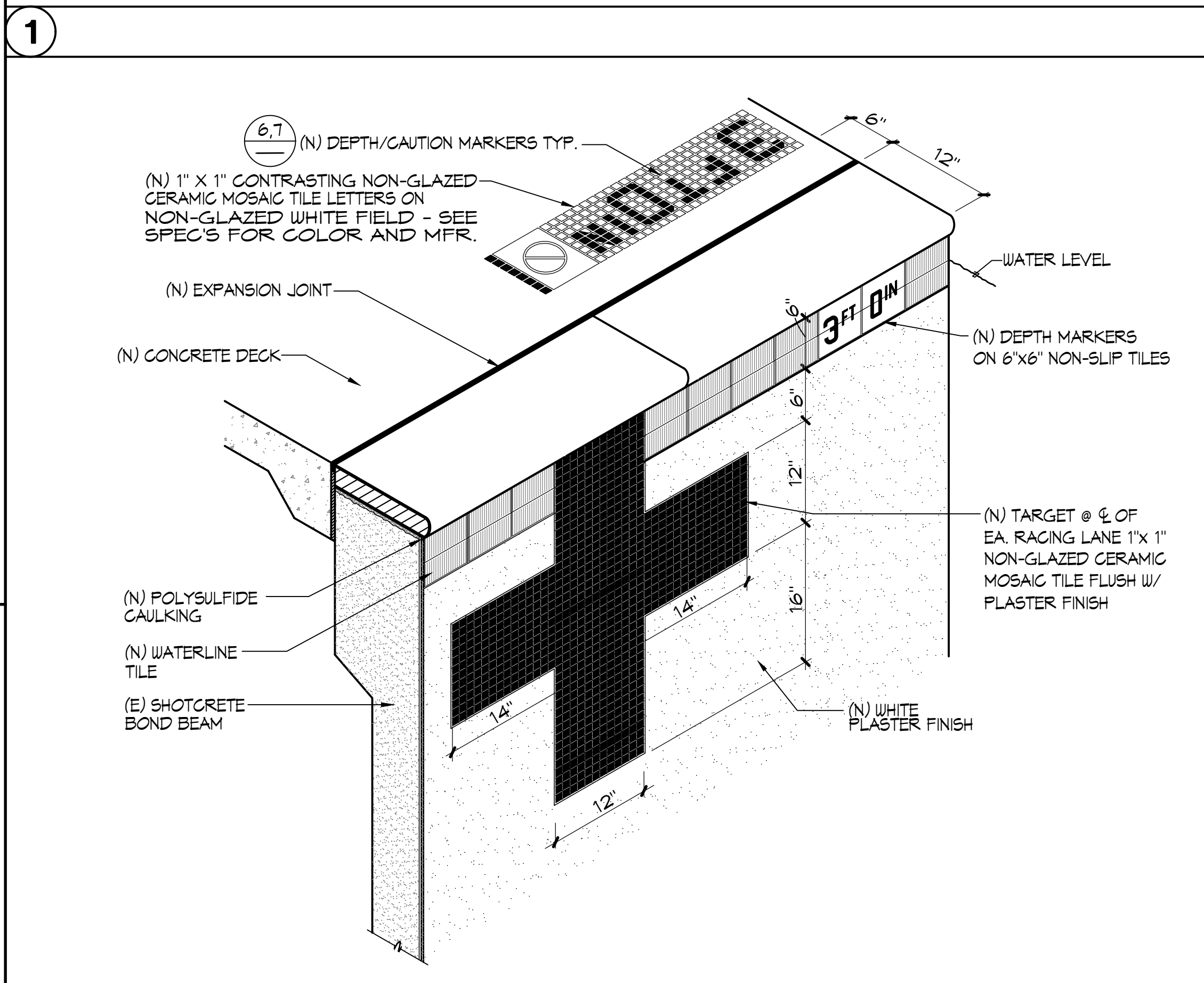
PROJECT
**JOHN F KENNEDY HIGH SCHOOL
SWIMMING POOL UPGRADE**

6715 GLORIA DR
SACRAMENTO, CA 95831

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

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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"

TITLE
DETAILS

SHEET
SP-501

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12/20/2024 8:10:07 AM

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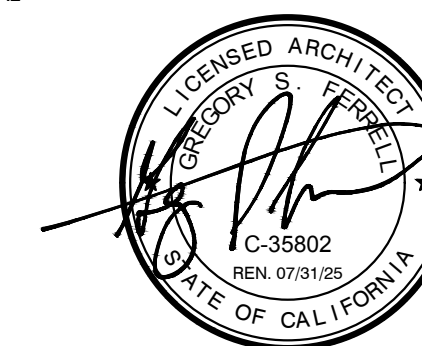
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CONSULTANT

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PROJECT
JOHN F KENNEDY HIGH SCHOOL SWIMMING POOL UPGRADE

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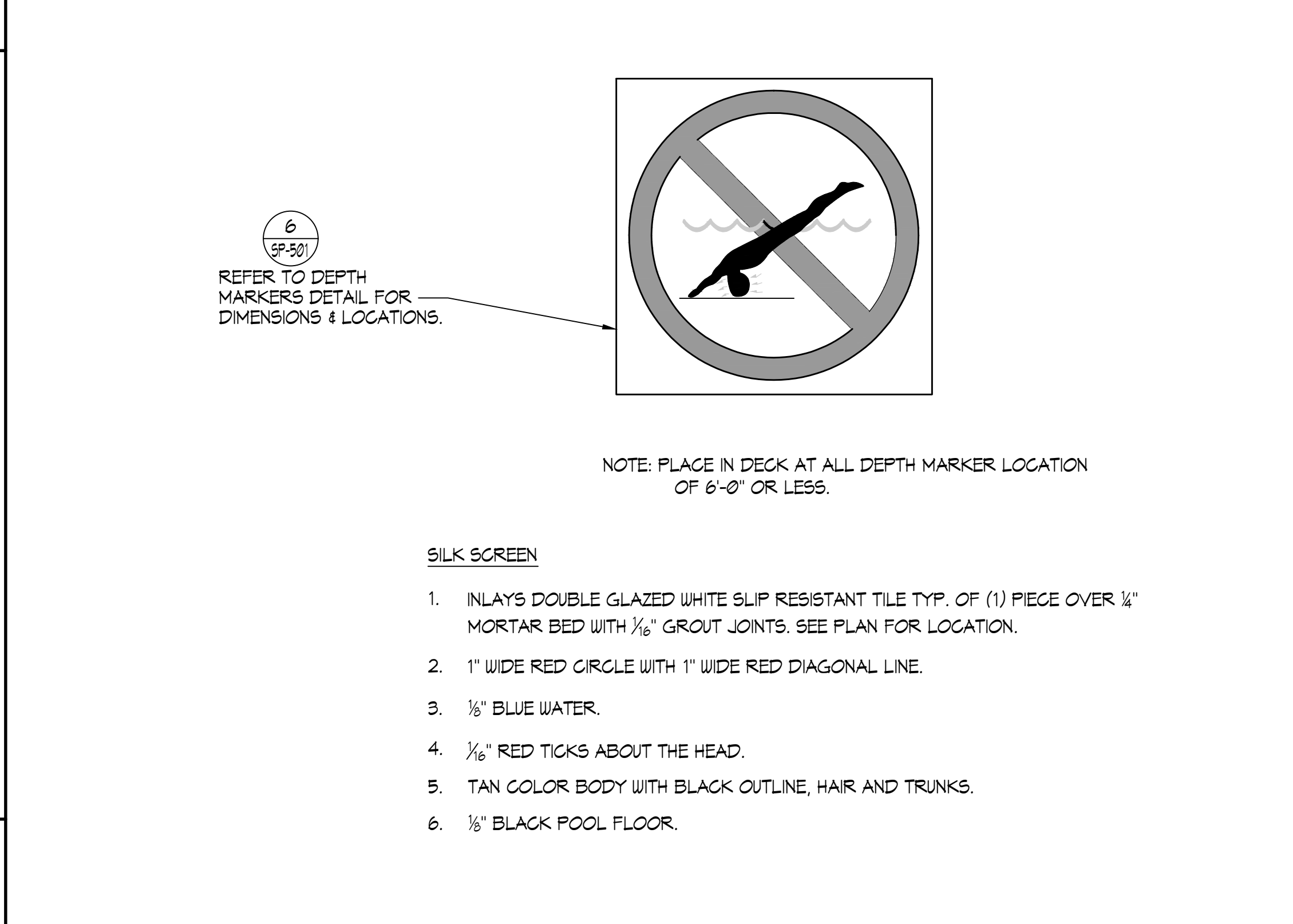
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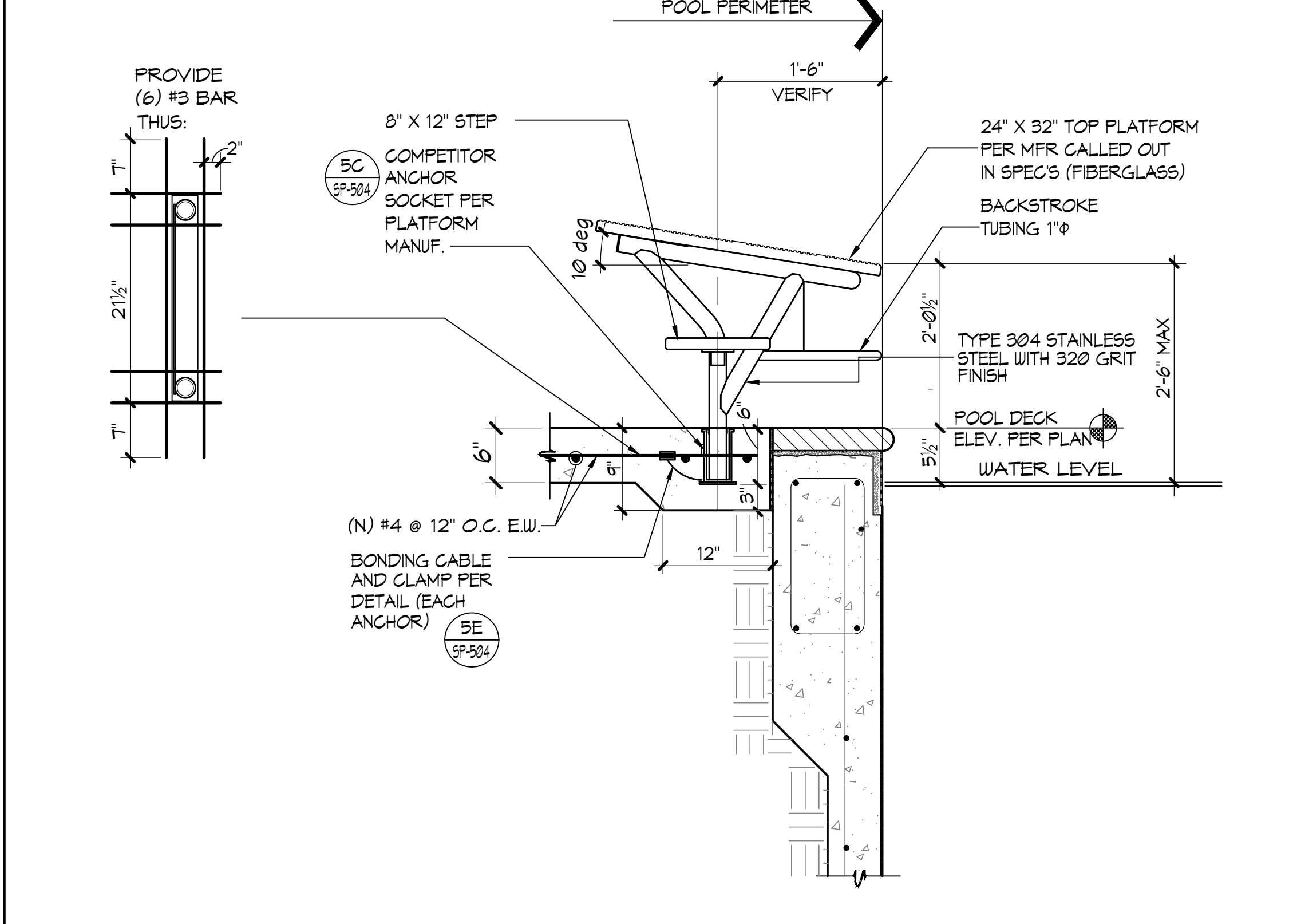
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DETAILS

SHEET

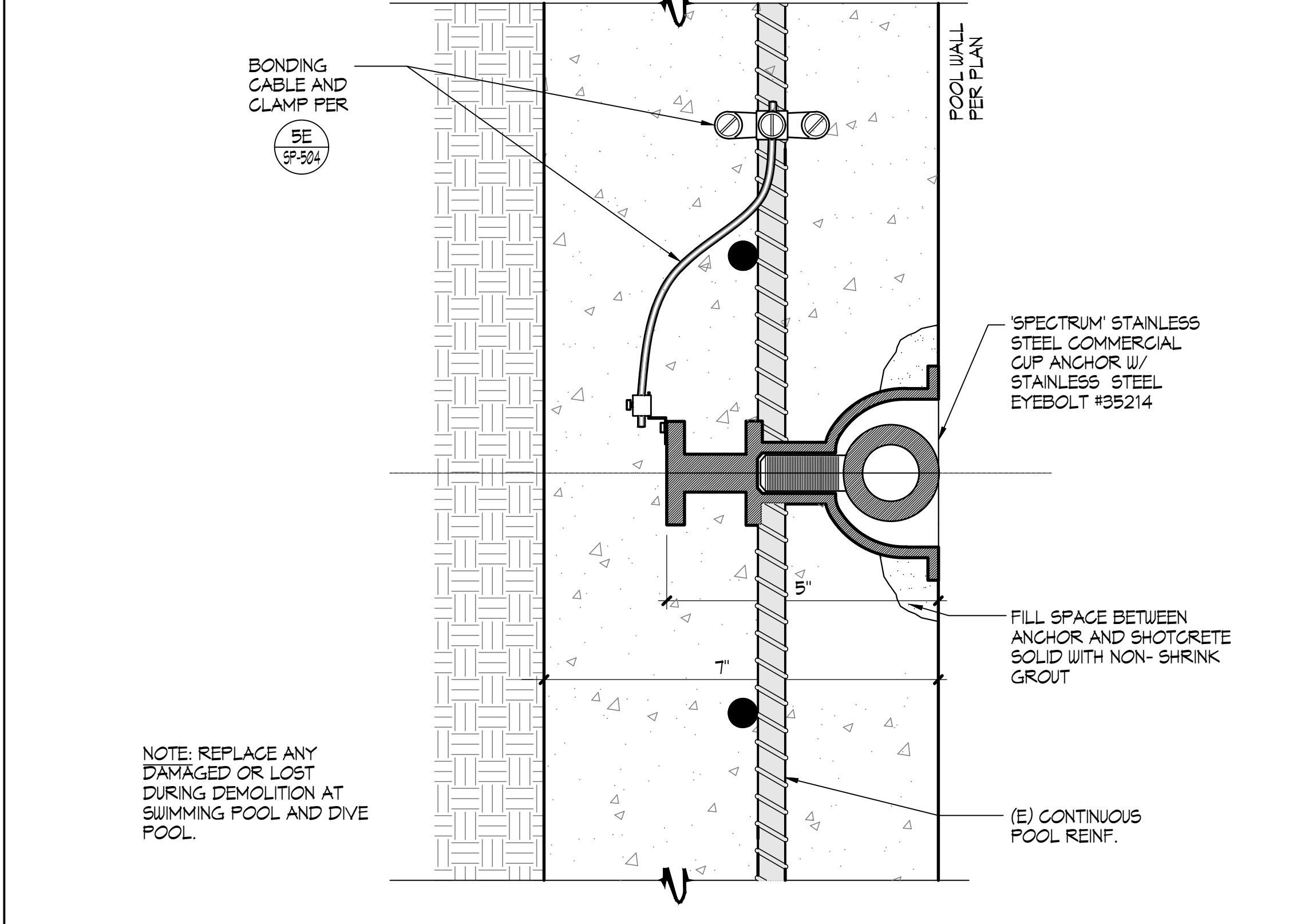
SP-502



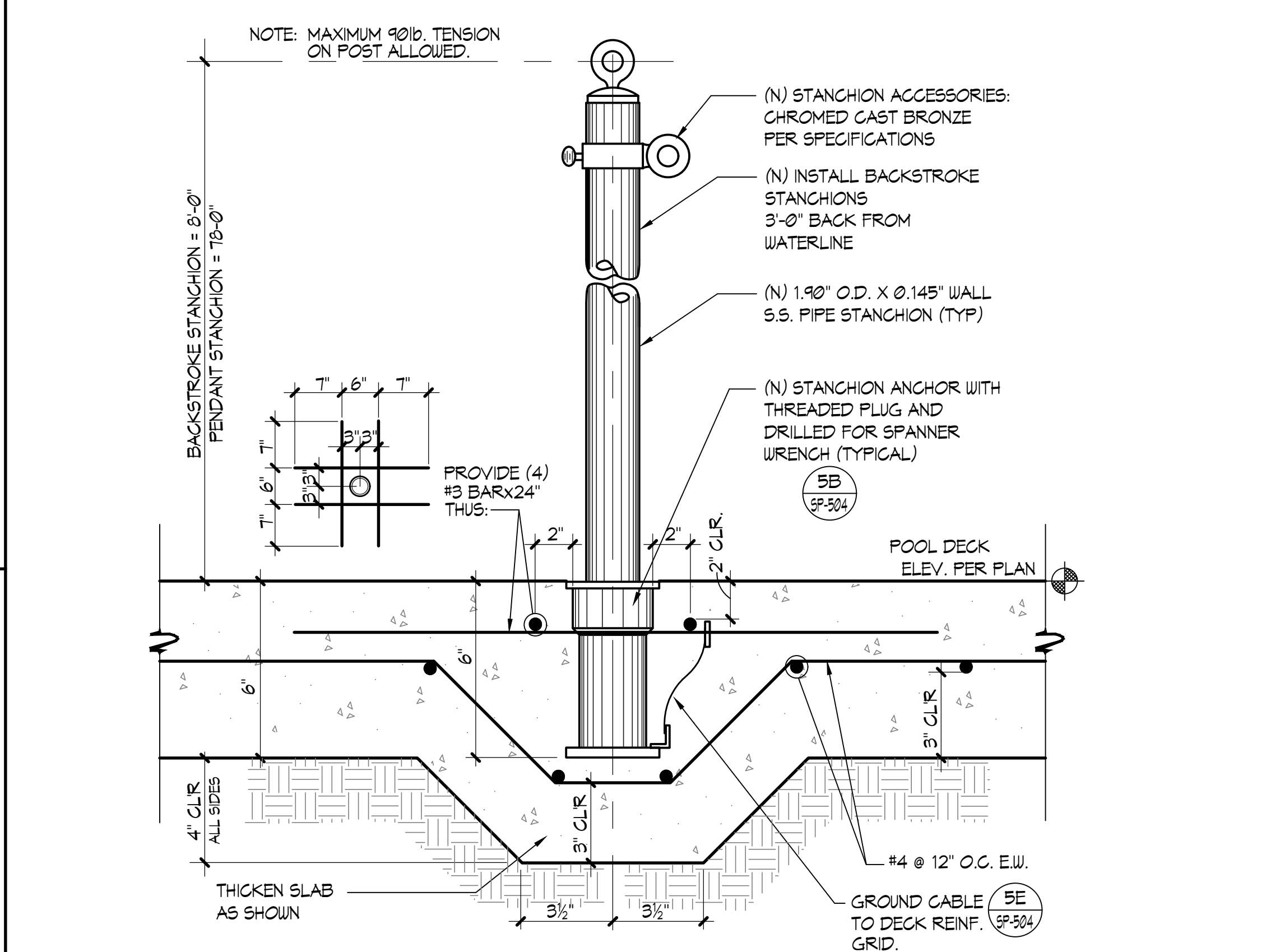
1 INTERNATIONAL "NO DIVING" MARKER 3'-1'-0"



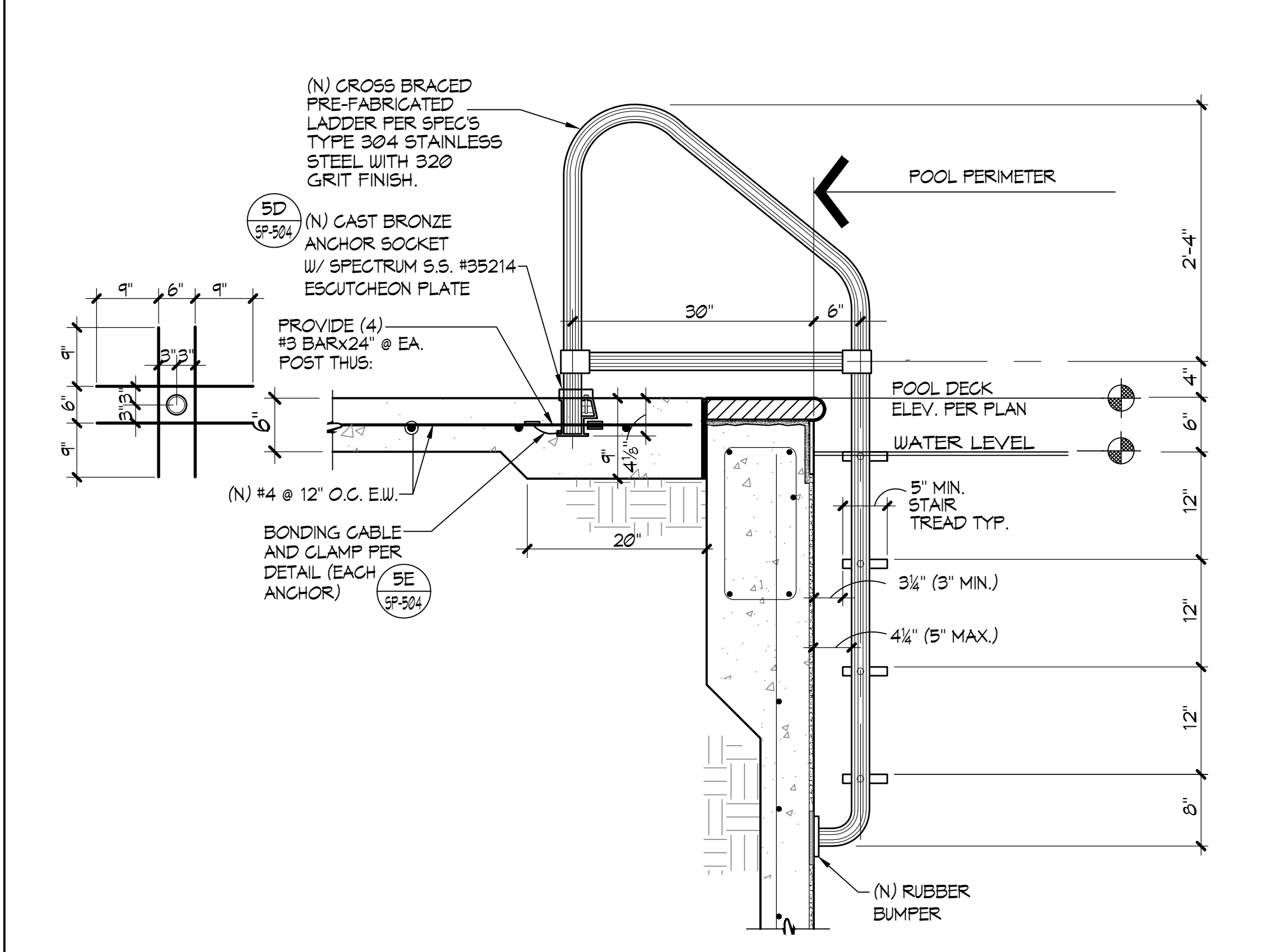
2 (N) RACING PLATFORM 1'-1'-0"



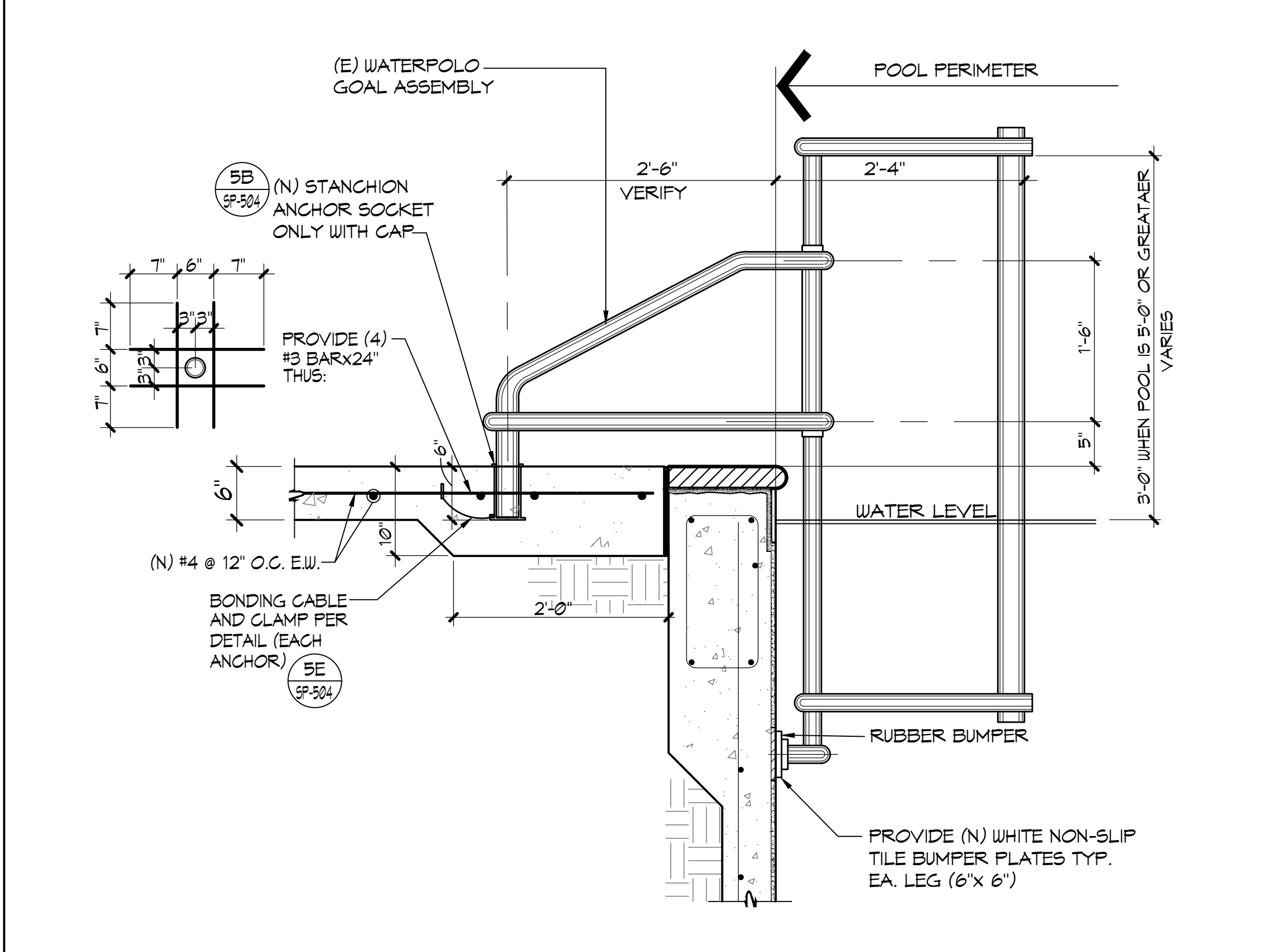
3 (N) OR (E) ROPE ANCHOR 1/2" = 1"



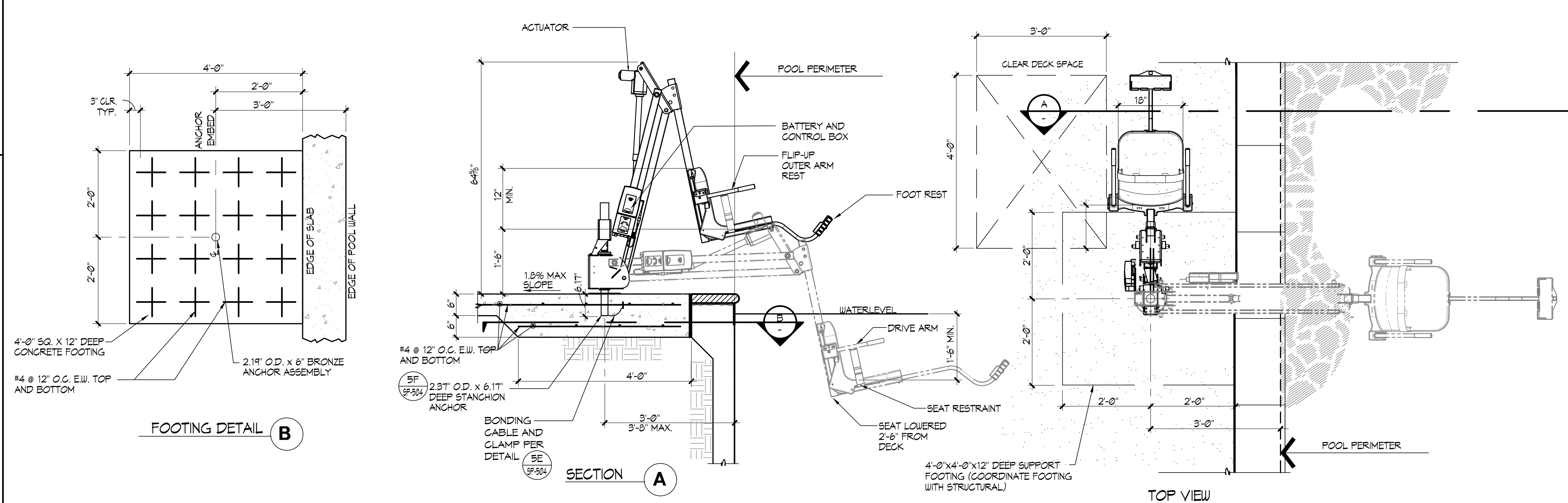
4 (N) STANCHION POST/ANCHOR 3'-1'-0"



5 (N) DIVING POOL LADDER 1'-1'-0"



6 (N) SWIMMING POOL WATERPOLO GOAL 1'-1'-0"



7 (N) SWIMMING POOL ACCESSIBLE LIFT 3/4" = 1'-0"

- NOTES:**
1. AQUA CREEK MIGHTY 400 F-MTY-400 (350 lbs. MIN. LIVE LOAD AND 400 lbs. MAX. LIFTING CAPACITY)
 2. GUSSET COVER PLATE TO BE ATTACHED REQUIRING A TOOL FOR REMOVAL.
 3. CONTRACTOR SHALL PROVIDE COVER FOR LIFT 'AQUA CREEK'; EXTRA BATTERY PACK 'AQUA CREEK' #F-004AB, AND TRANSPORTER CART 'AQUA CREEK' #F-MTC.
 4. UTILIZE OUTLET IN OFFICE FOR DISABLED LIFT BATTERY CHARGE STATION.
 5. 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)
 6. 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)
 7. 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)
 8. 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)
 9. 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)
 10. 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)
 11. 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)
 12. 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)
 13. 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.

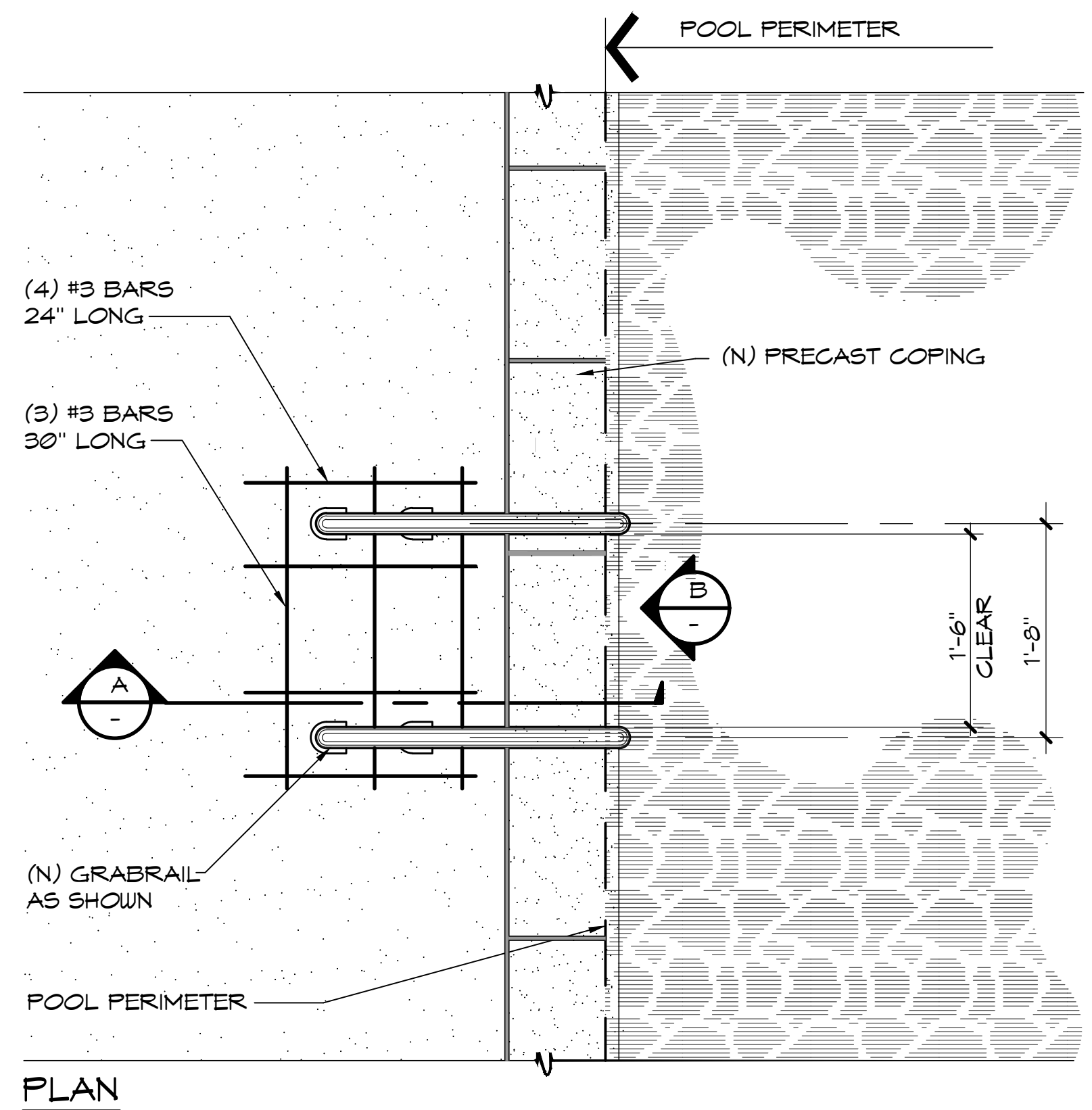
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C

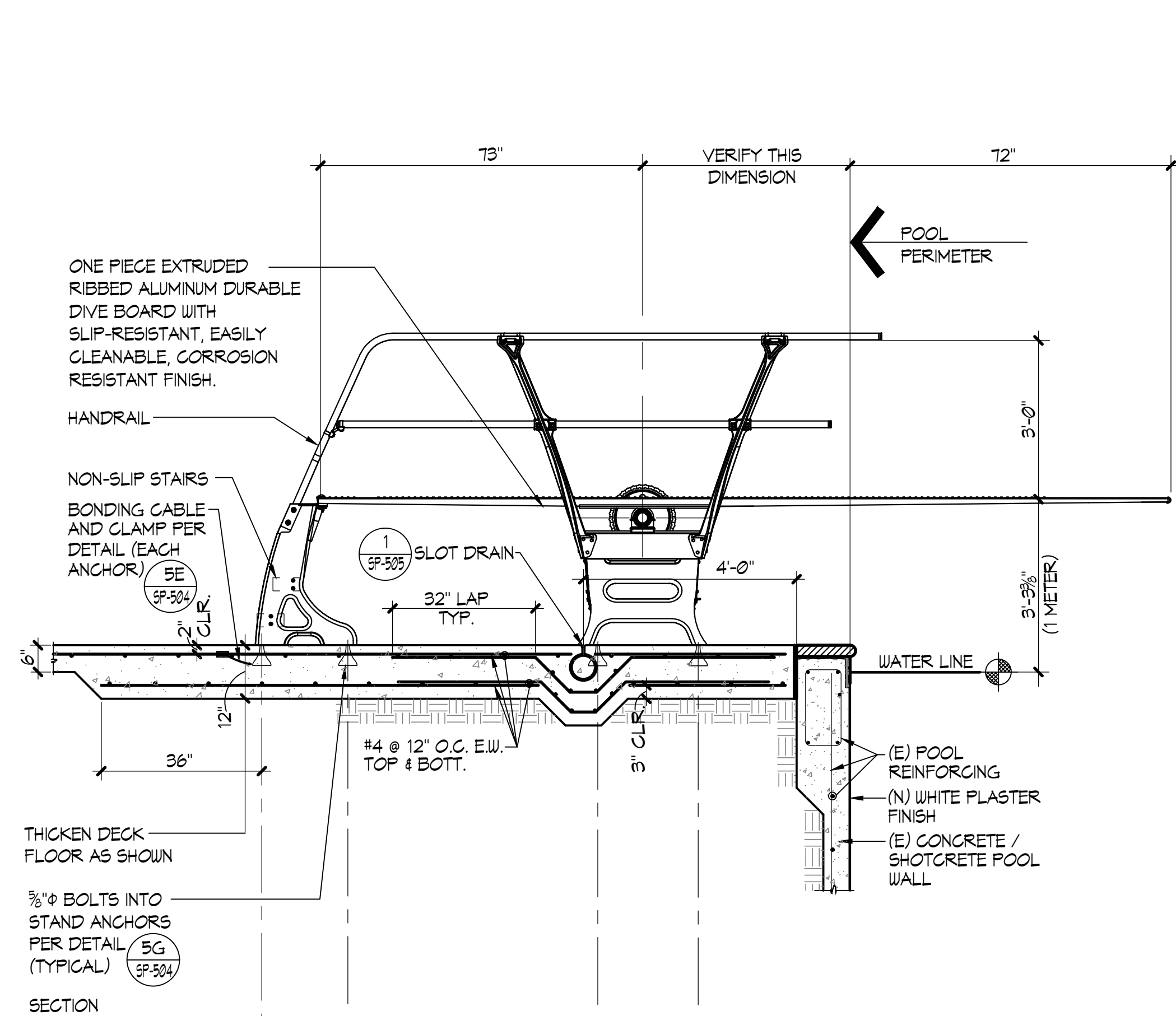
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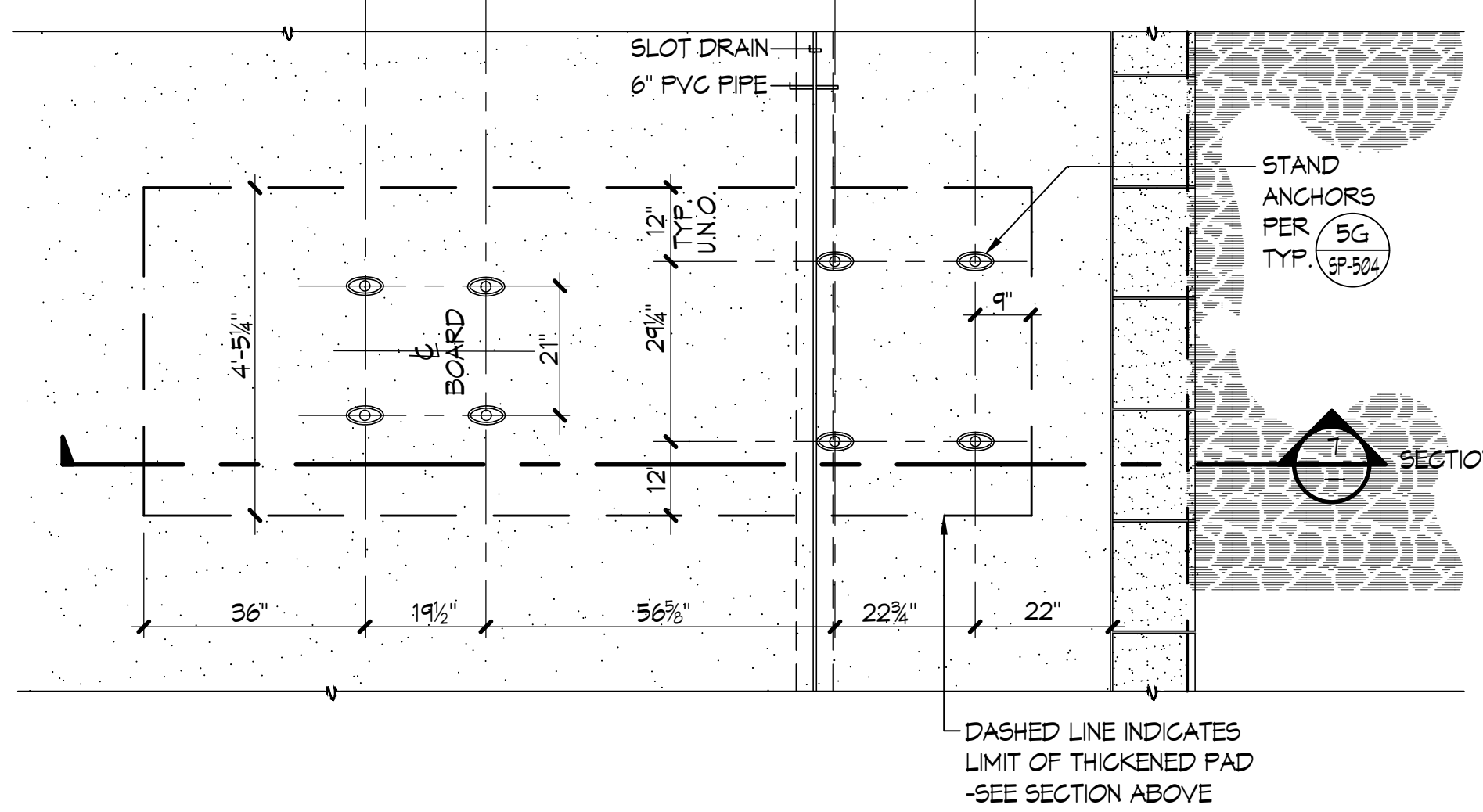
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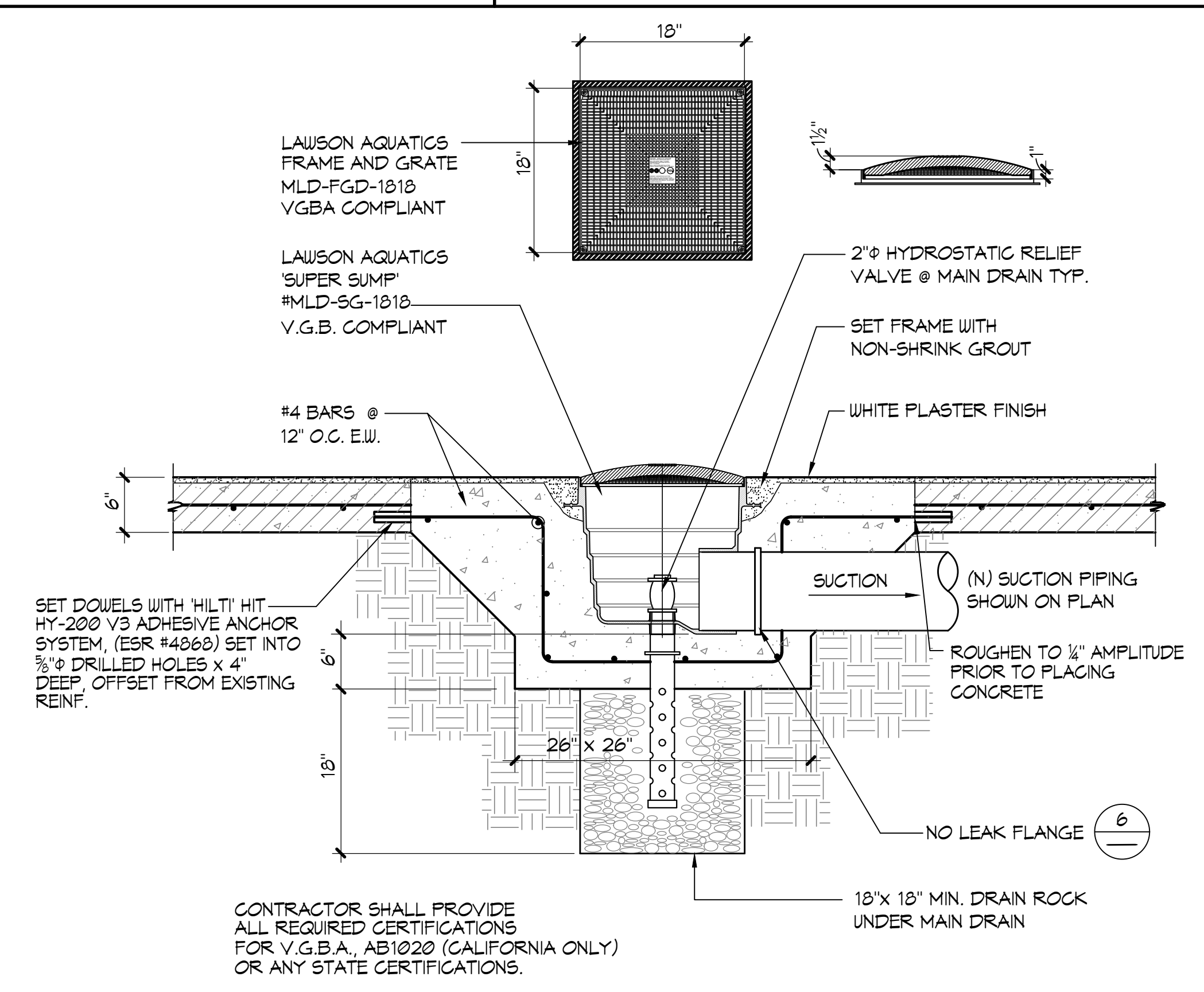
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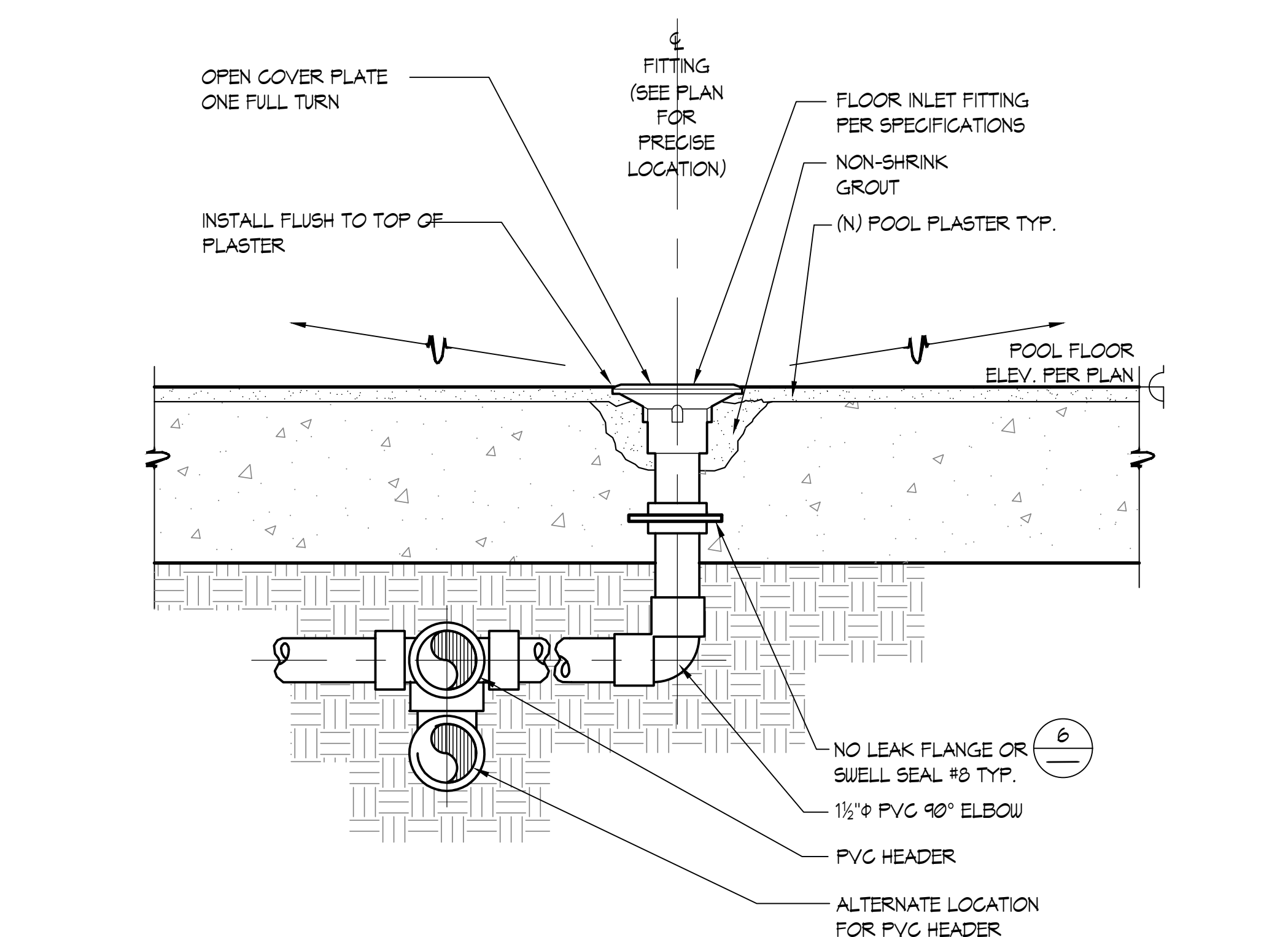
SECTION



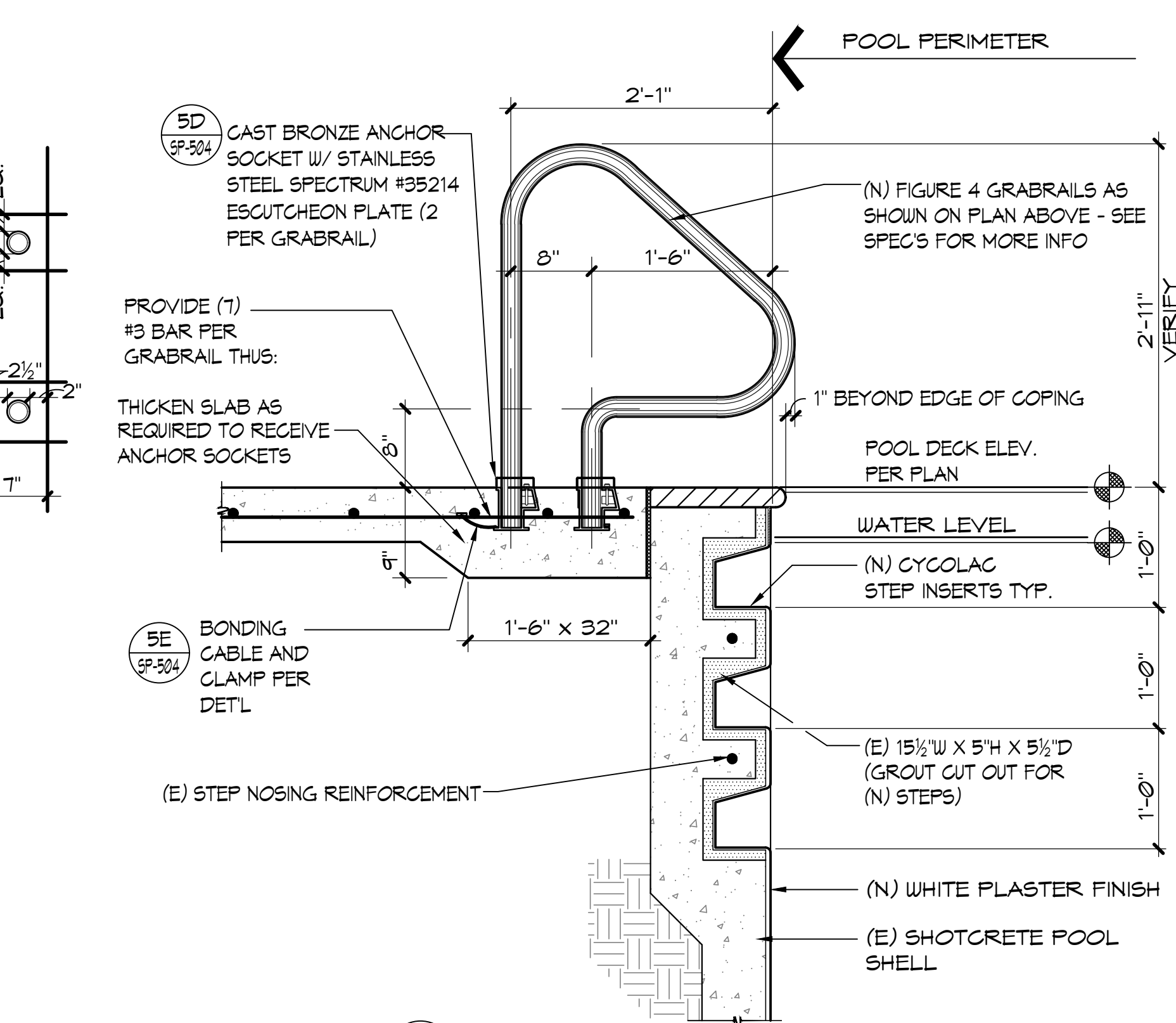
2 (N) ONE METER DIVE STAND 1/2"=1'-0"



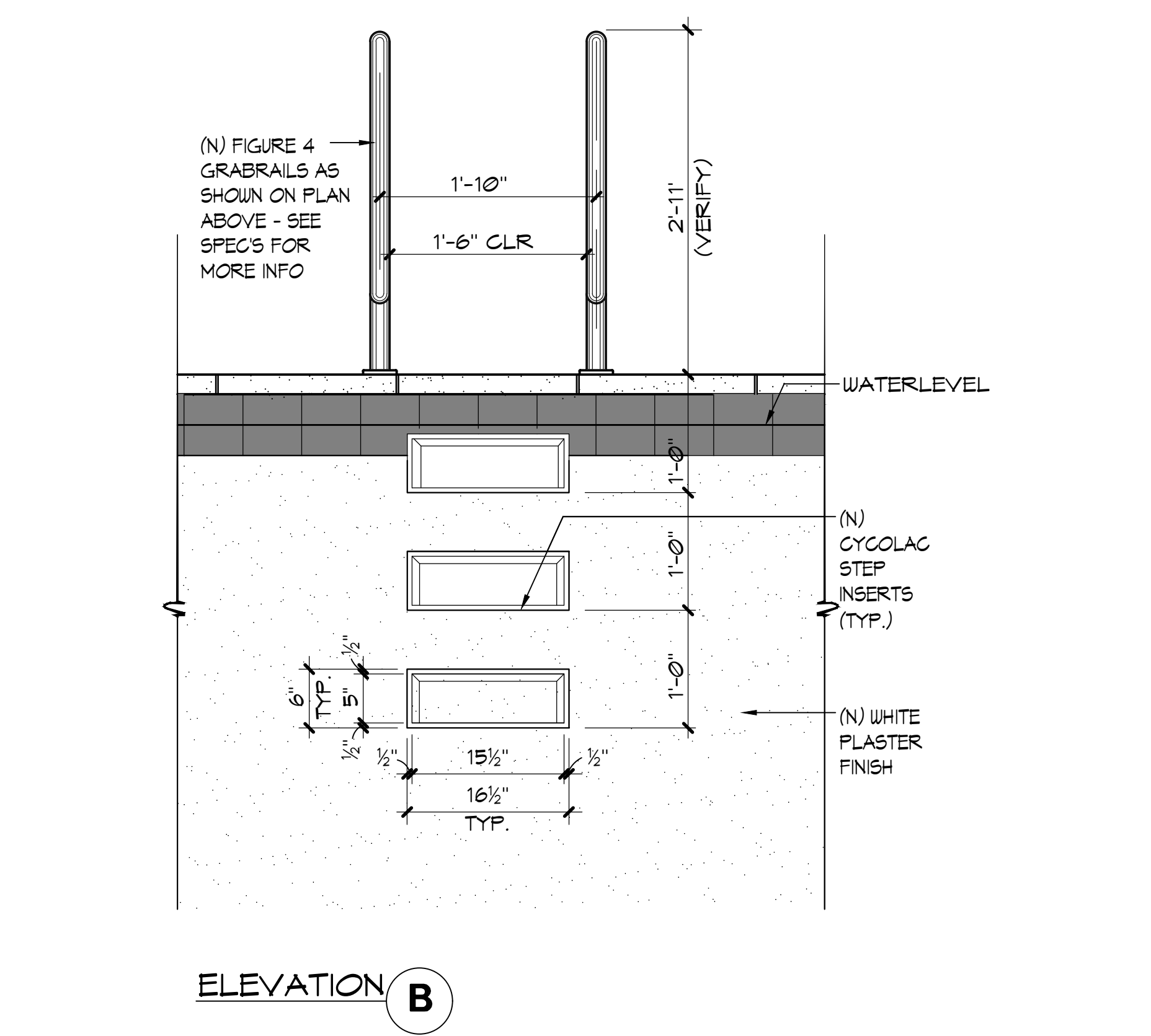
3 SWIMMING POOL / DIVING POOL MAIN DRAIN 1"=1'-0"



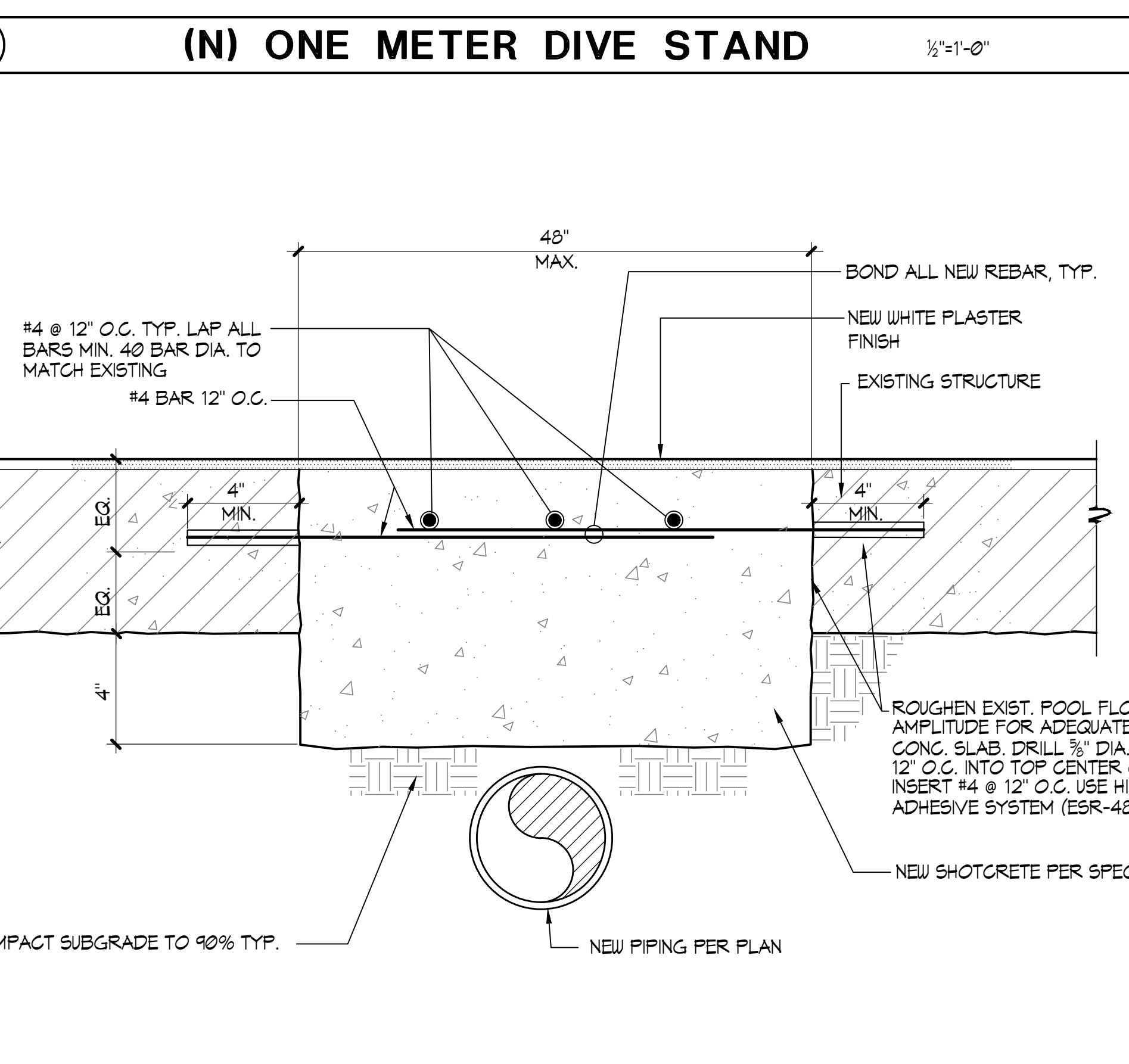
4 FLOOR INLET 3"=1'-0"



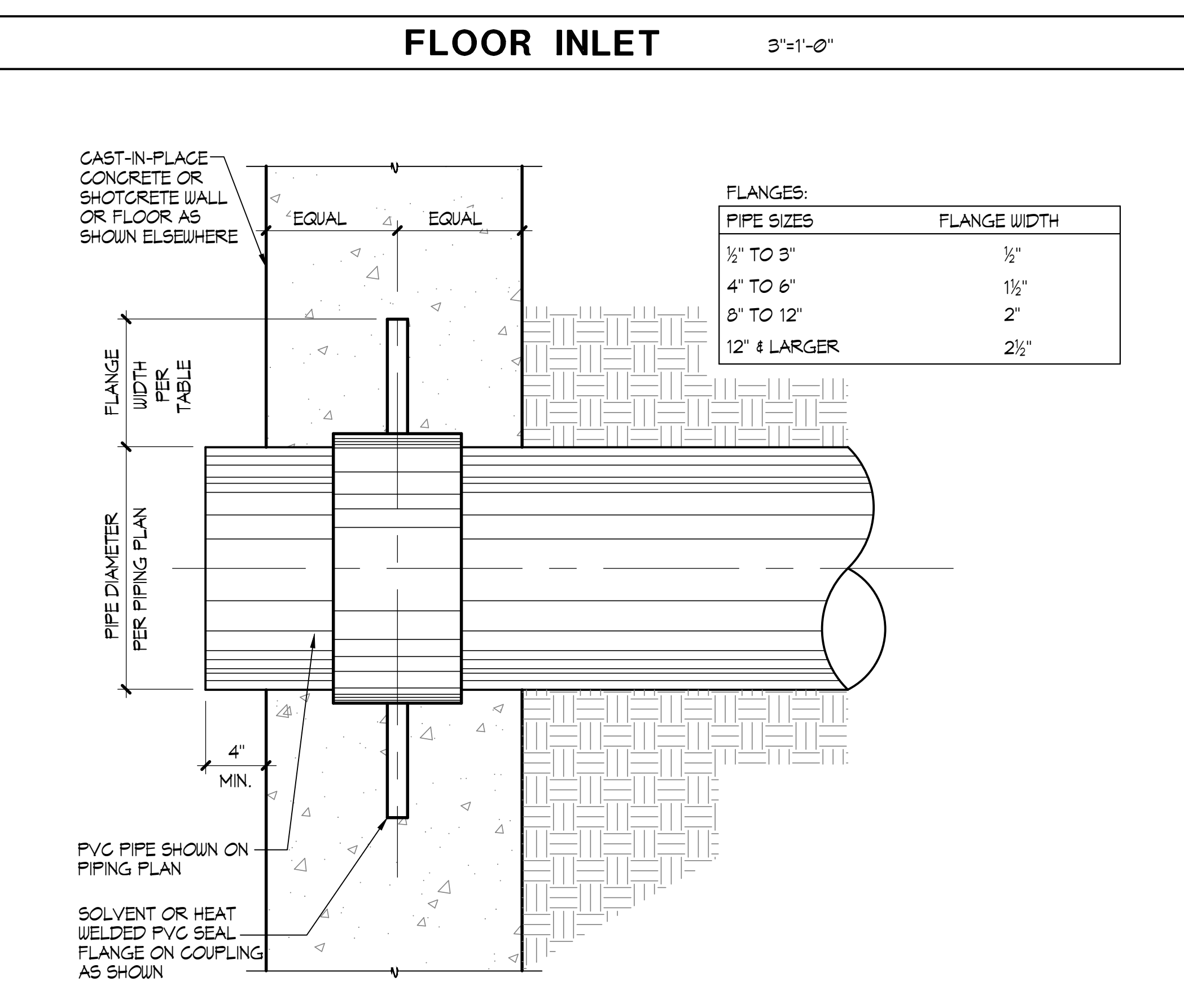
SECTION A



ELEVATION B



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



6 WATER STOP DETAIL NO SCALE

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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

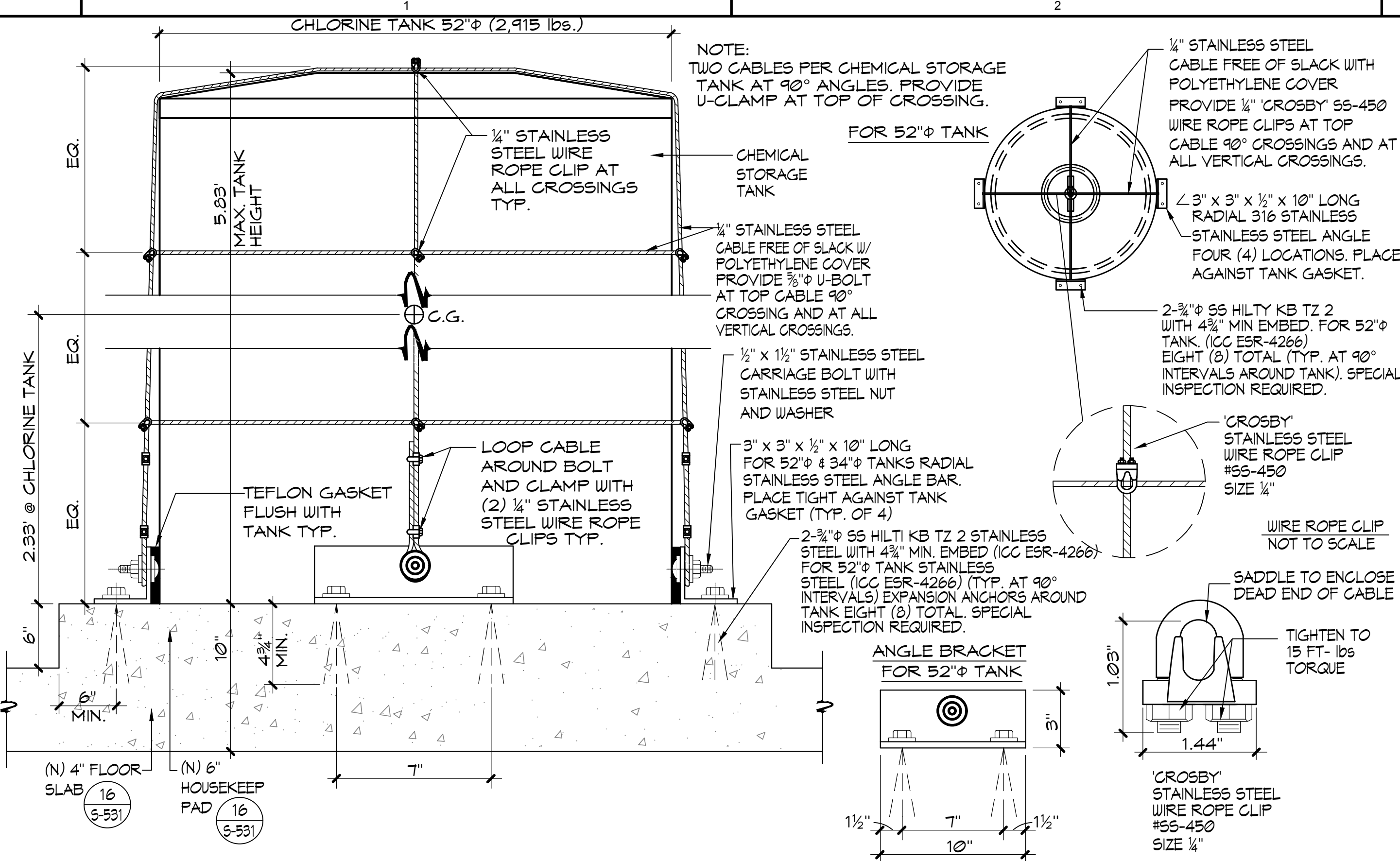
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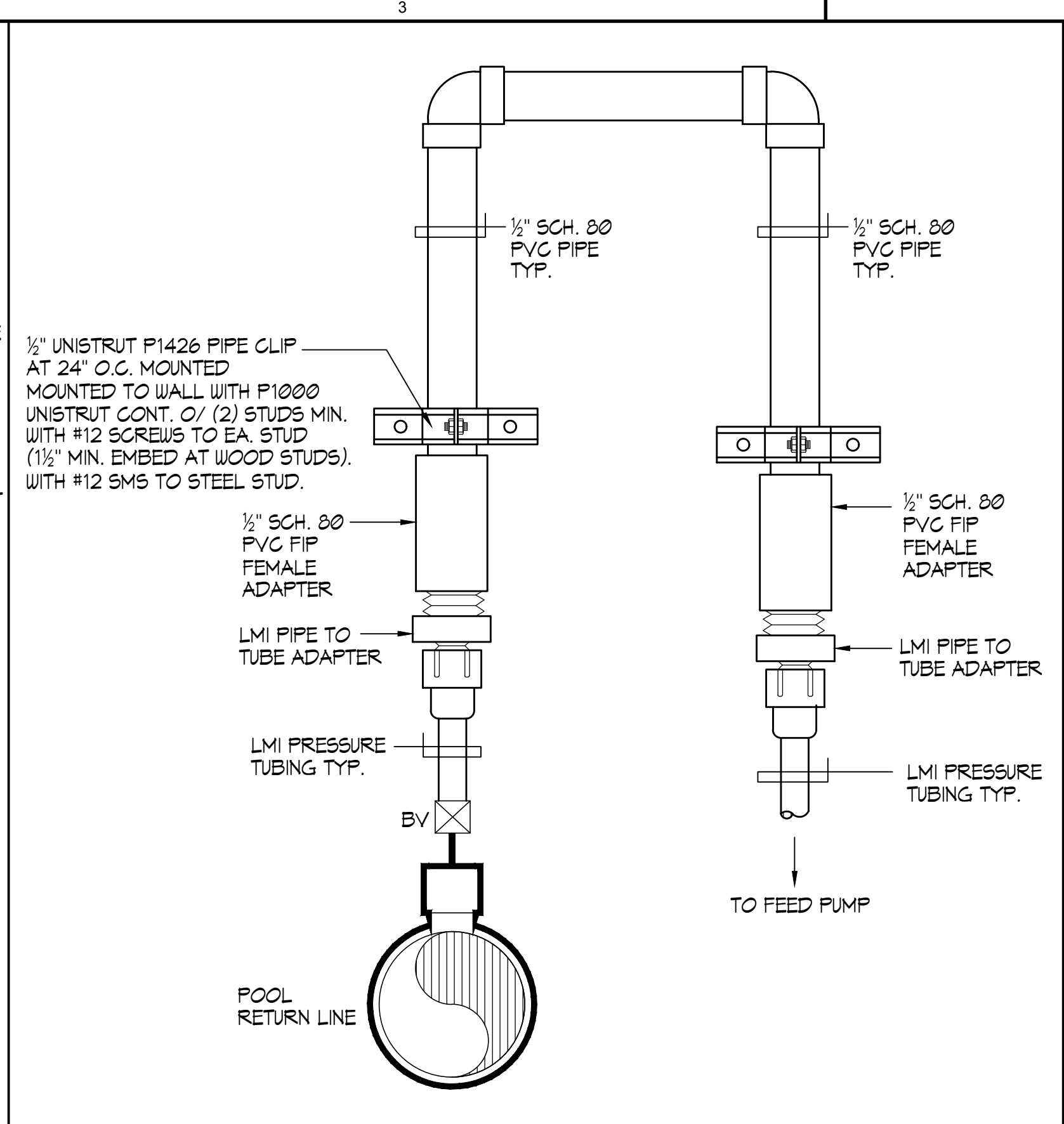
TITLE
DETAILS

SHEET
SP-503

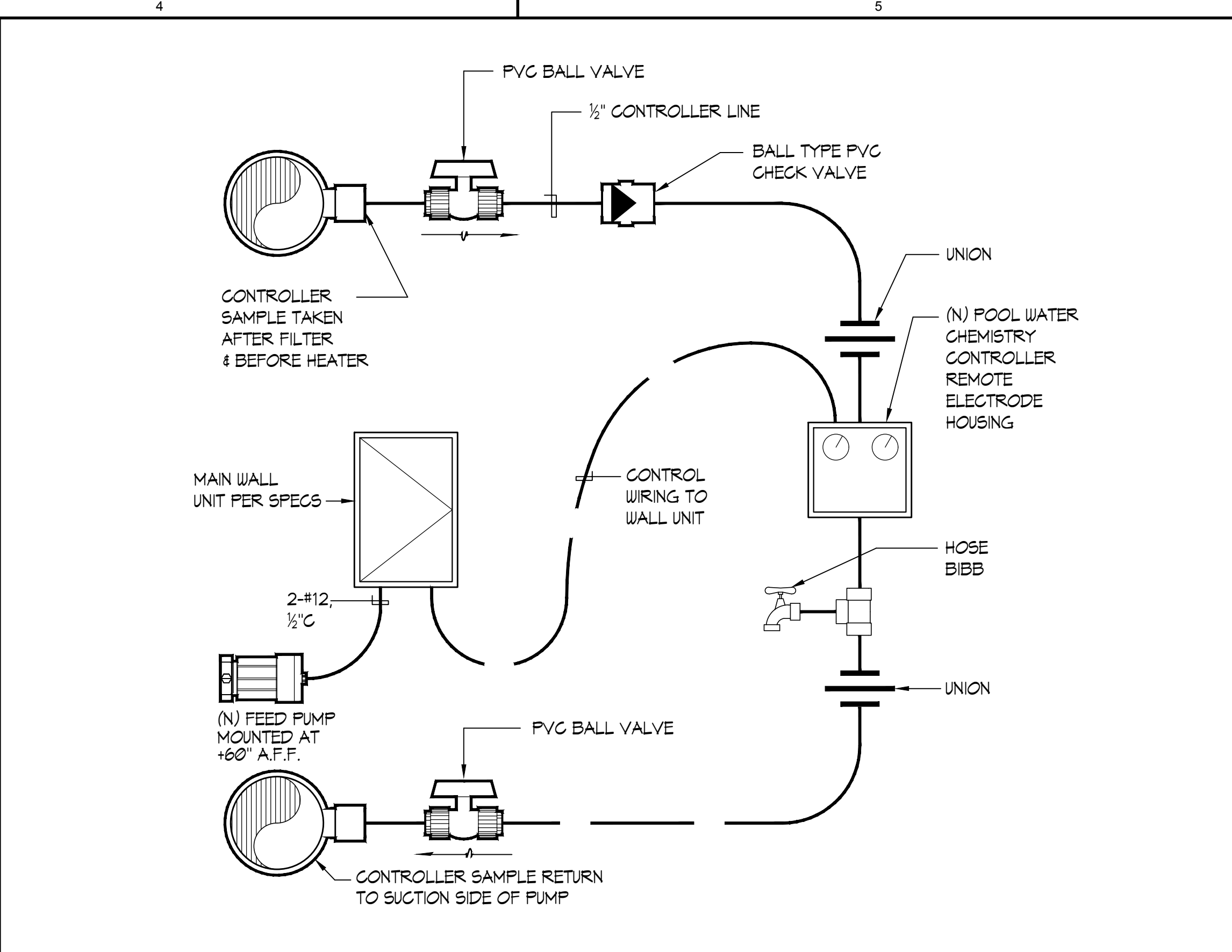
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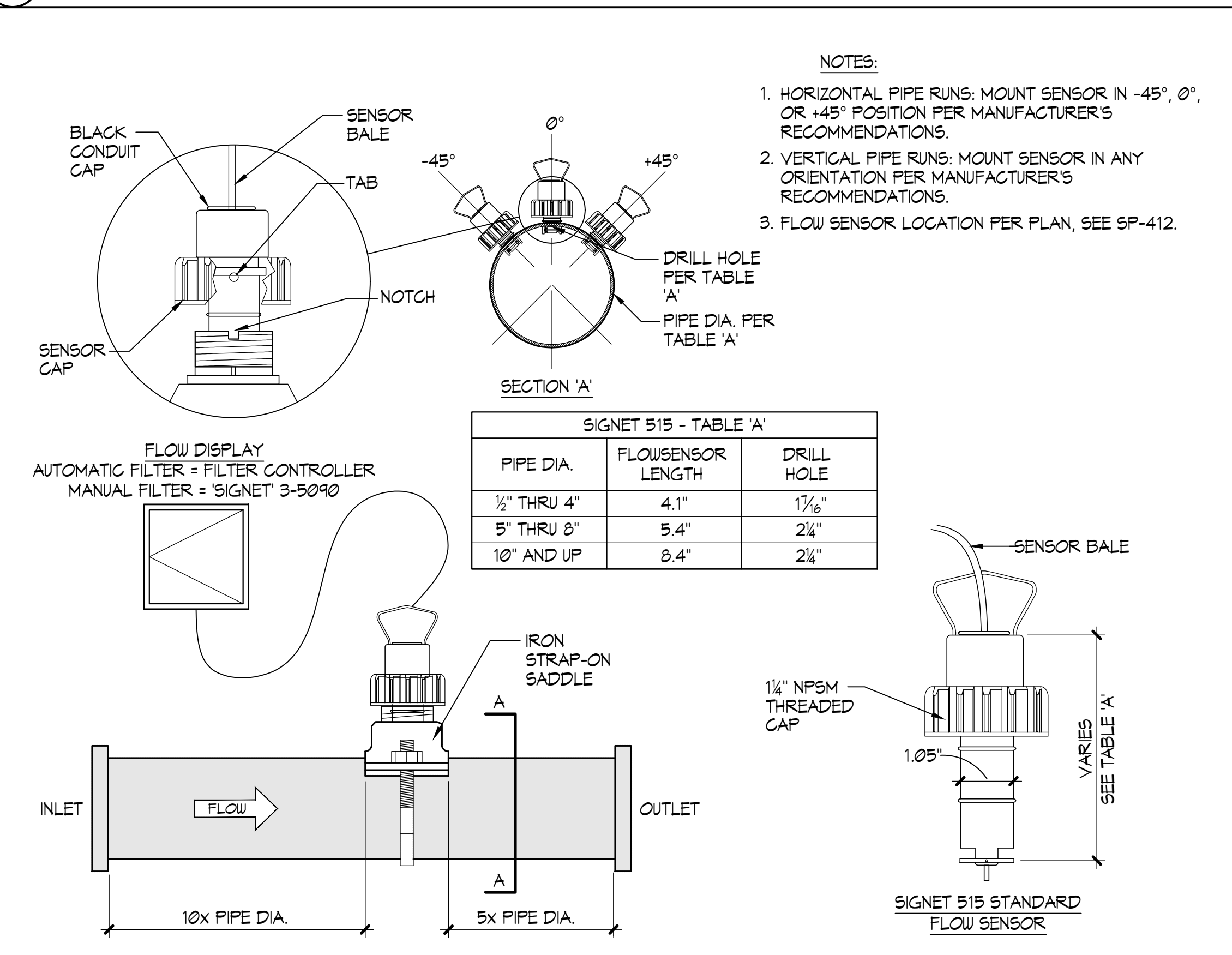
1 CHEMICAL TANK ANCHOR NO SCALE



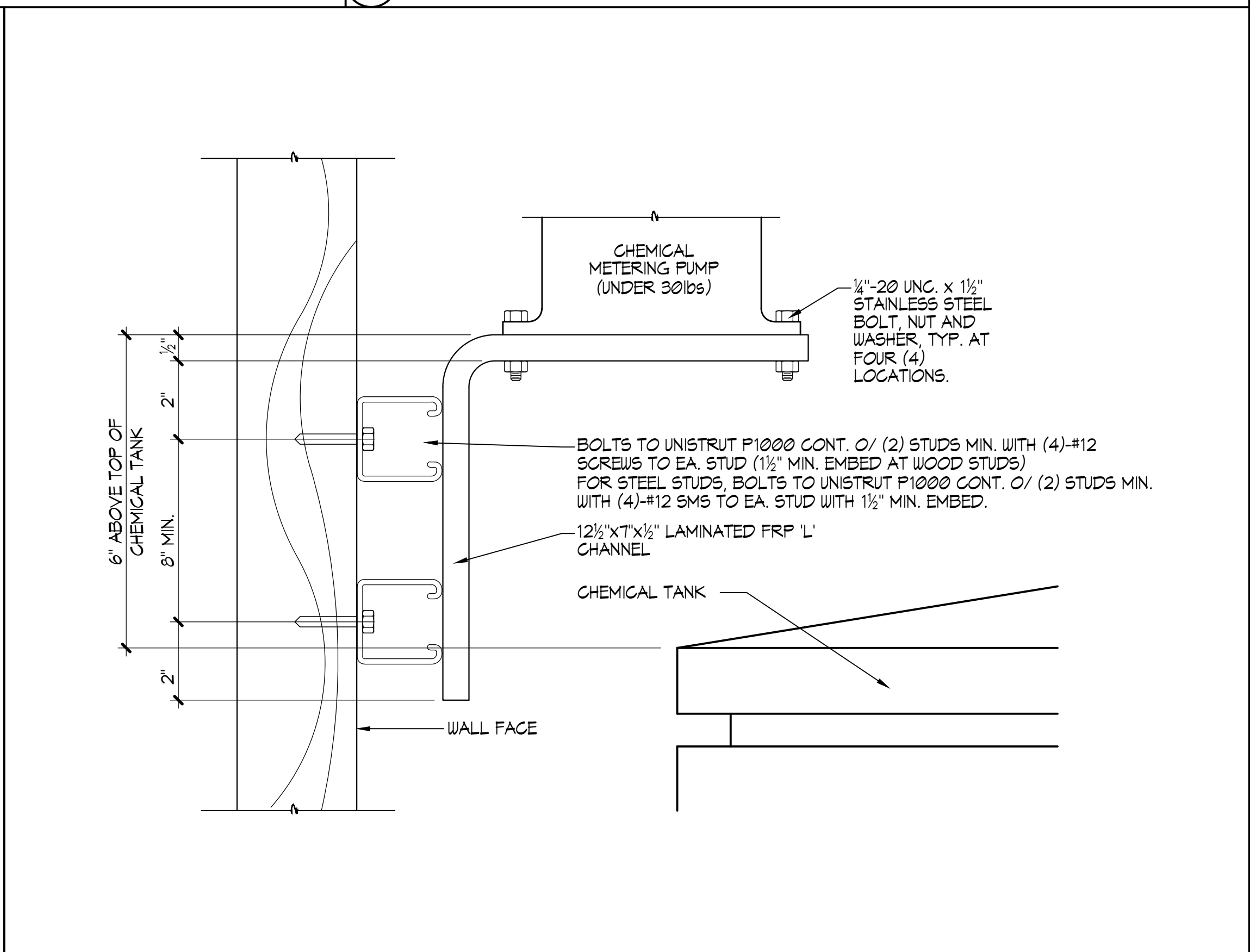
2 CHEMICAL FEED PIPING DETAIL NO SCALE



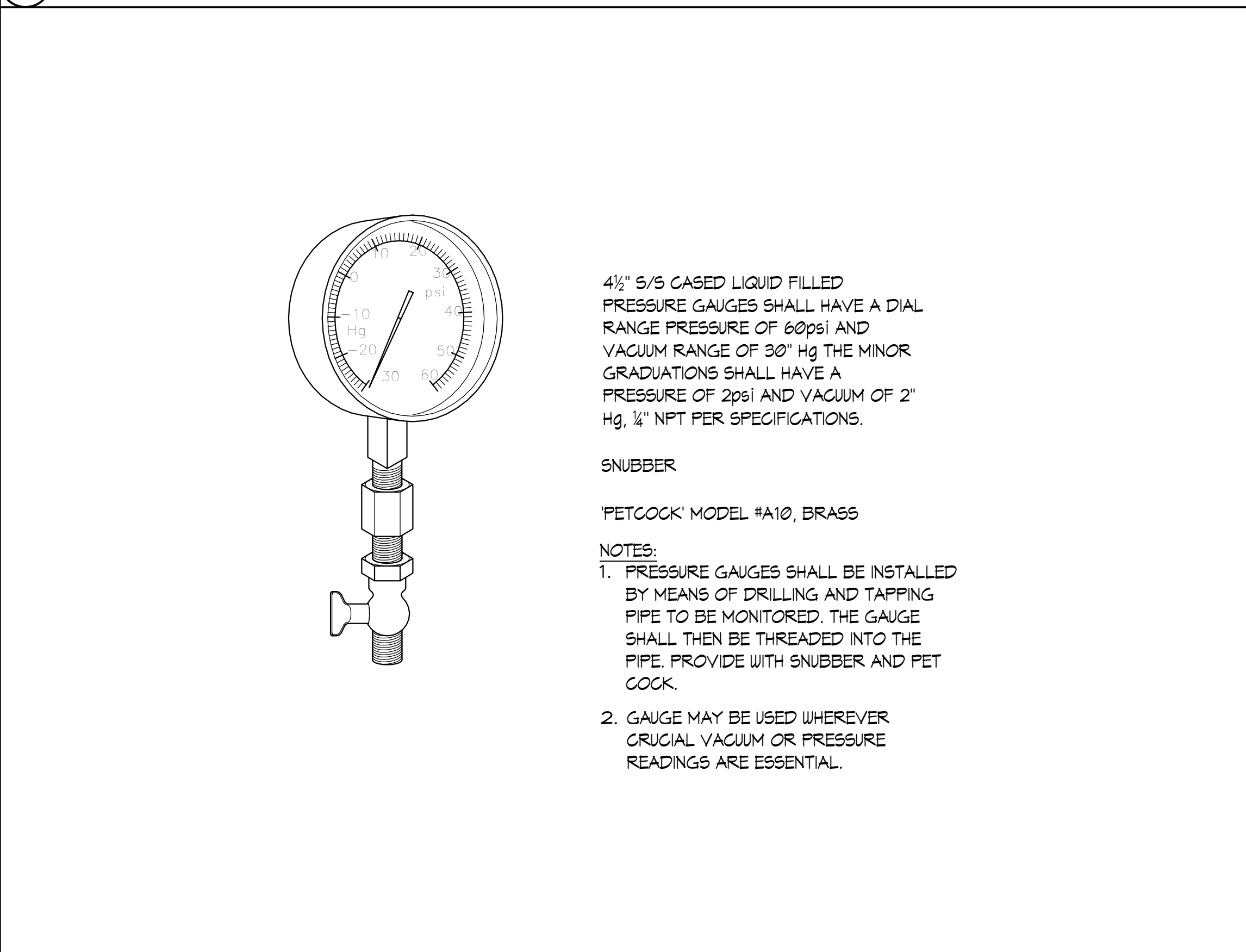
3 WATER CHEMISTRY CONTROLLER SCHEMATIC NO SCALE



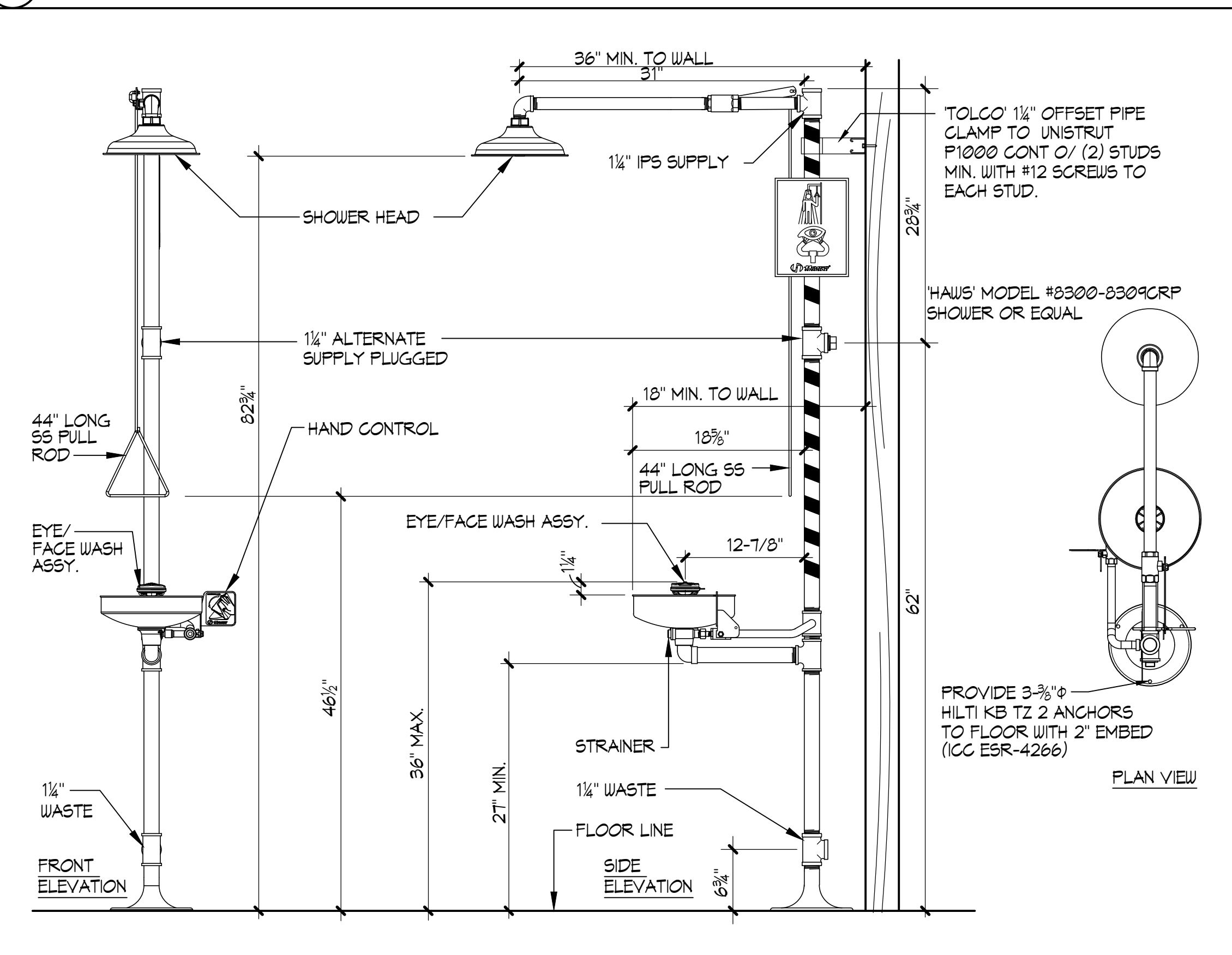
4 SIGNET FLOWMETER NO SCALE



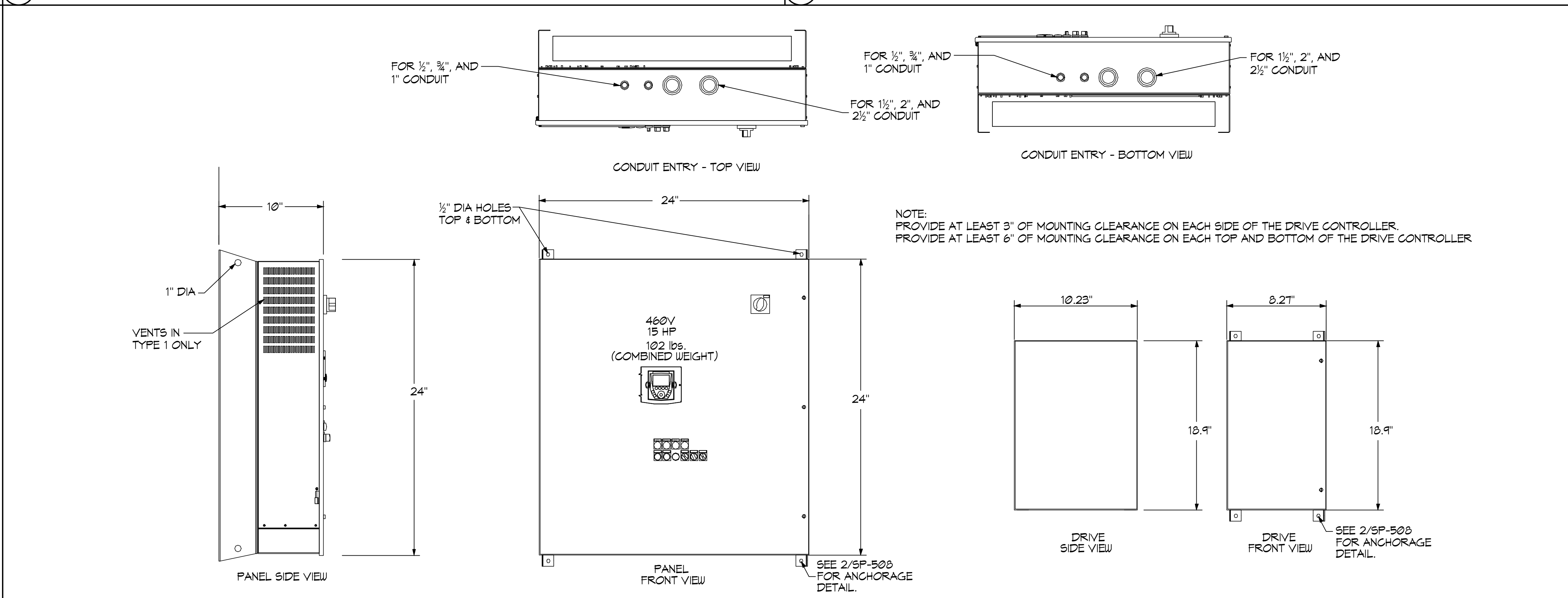
5 CHEMICAL PUMP SHELF 6'-1'-0"



6 PRESSURE/VACUUM GAUGE 6'-1'-0"



7 TYPICAL EYEWASH/SHOWER DETAIL NO SCALE



8 'SPCS' EKO-FLEX ENCLOSURE DIMENSIONS NO SCALE

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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

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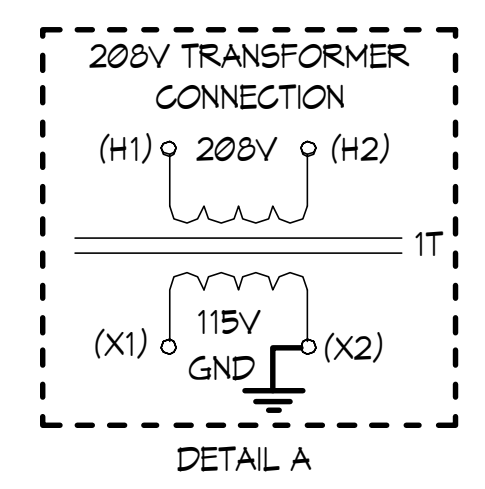
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DETAILS

SHEET
SP-506

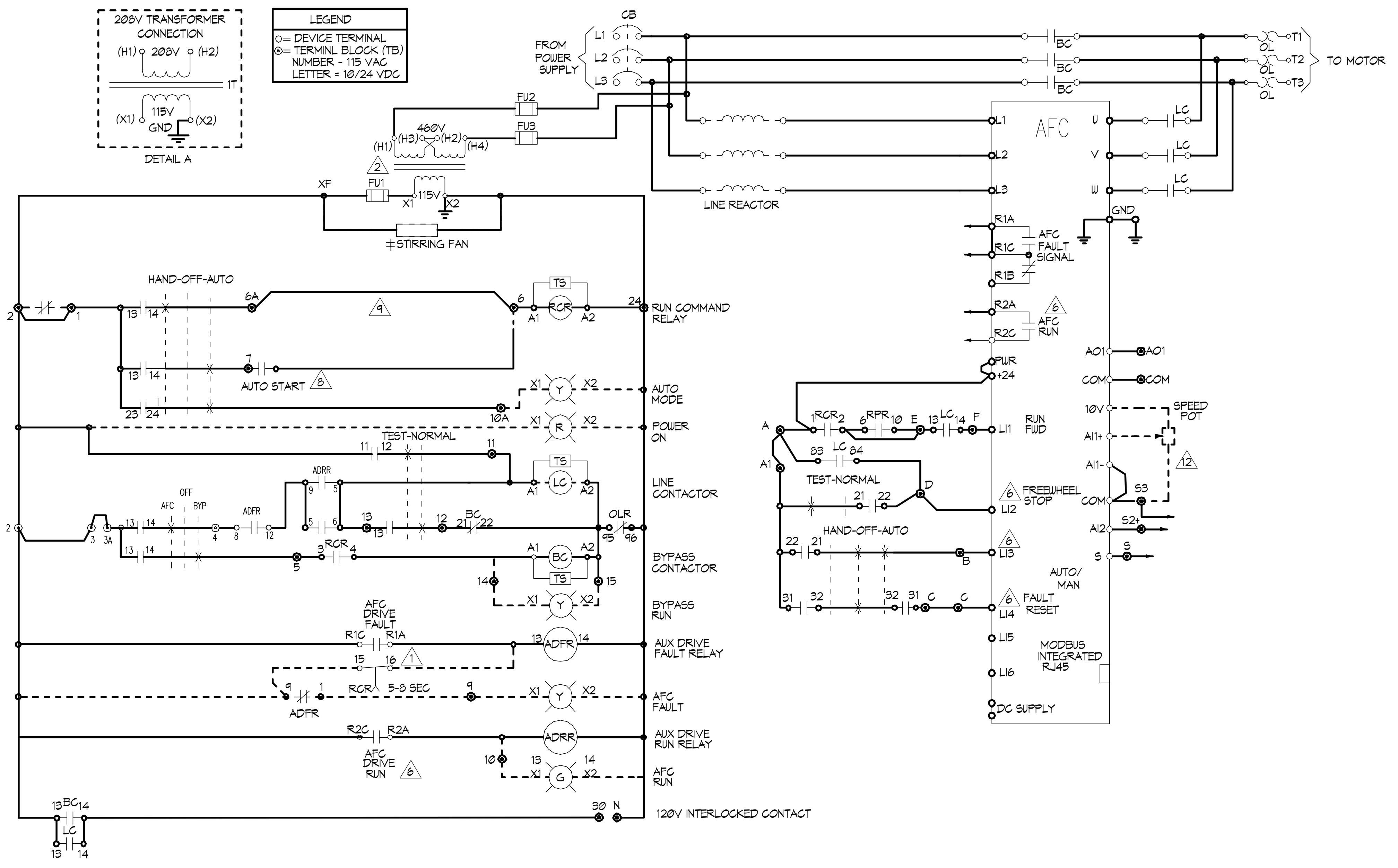
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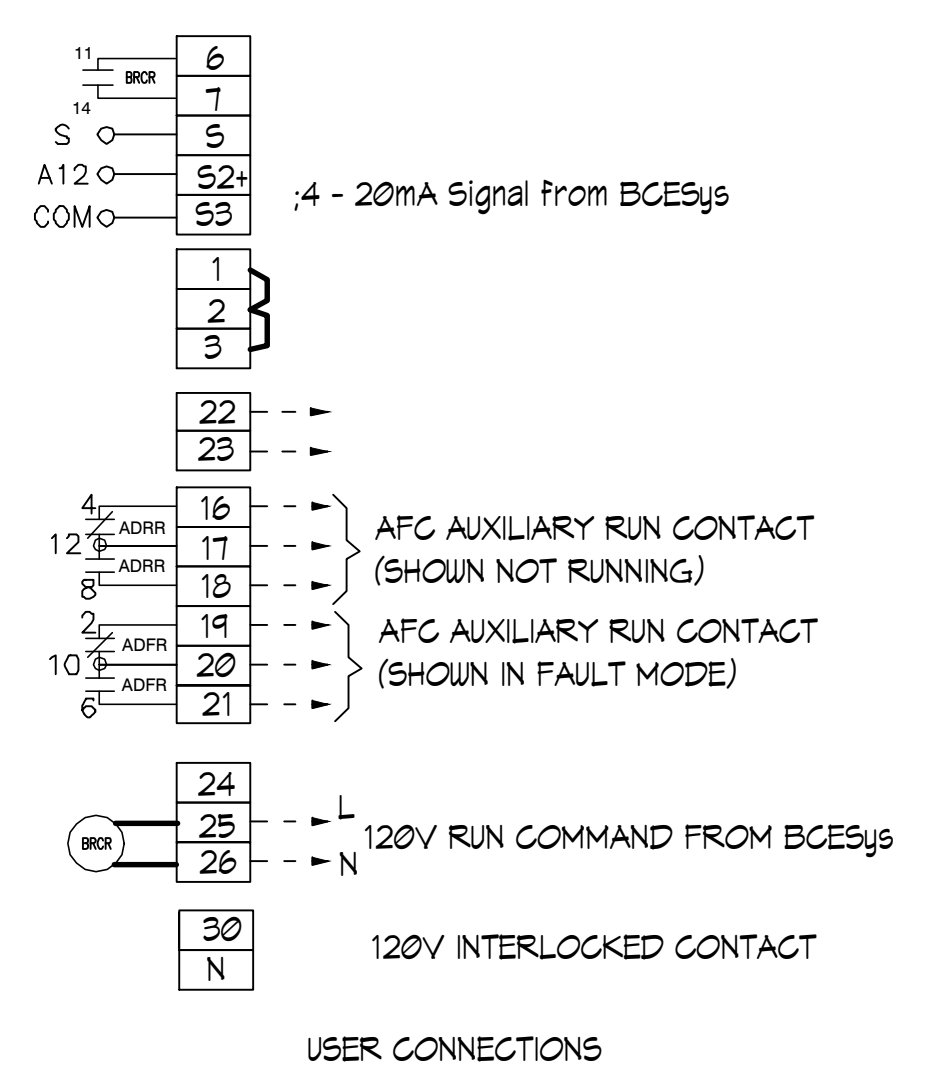


LEGEND	
○	= DEVICE TERMINAL
⊙	= TERMINAL BLOCK (TB) NUMBER - 115 VAC LETTER = 10/24 VDC



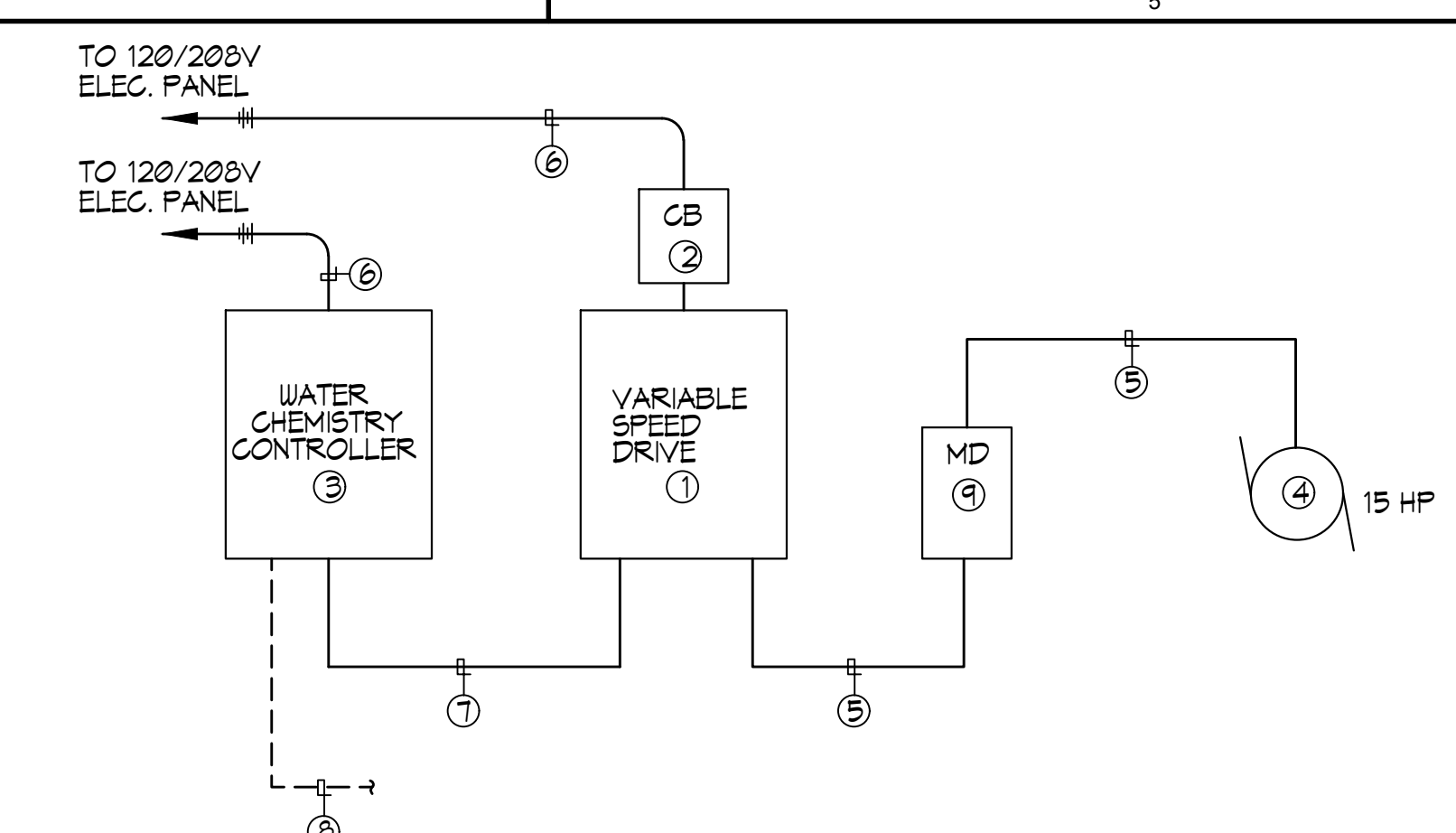
EKO-FLEX ATV61 FACTORY CONFIGURATION					
MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
SIM	1.1	----	2/3 WIRE CONTROL	tCC	2C
SIM	1.1	----	PUMPS FANS	CFG	PhF
SIM	1.1	----	STANDARD MOT. FREQ. (HZ)	bFr	60
SIM	1.1	----	ACCELERATION (SEC)	ACC	10
SIM	1.1	----	DECELERATION (SEC)	dEC	10
SIM	1.1	----	LOW SPEED (HZ)	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



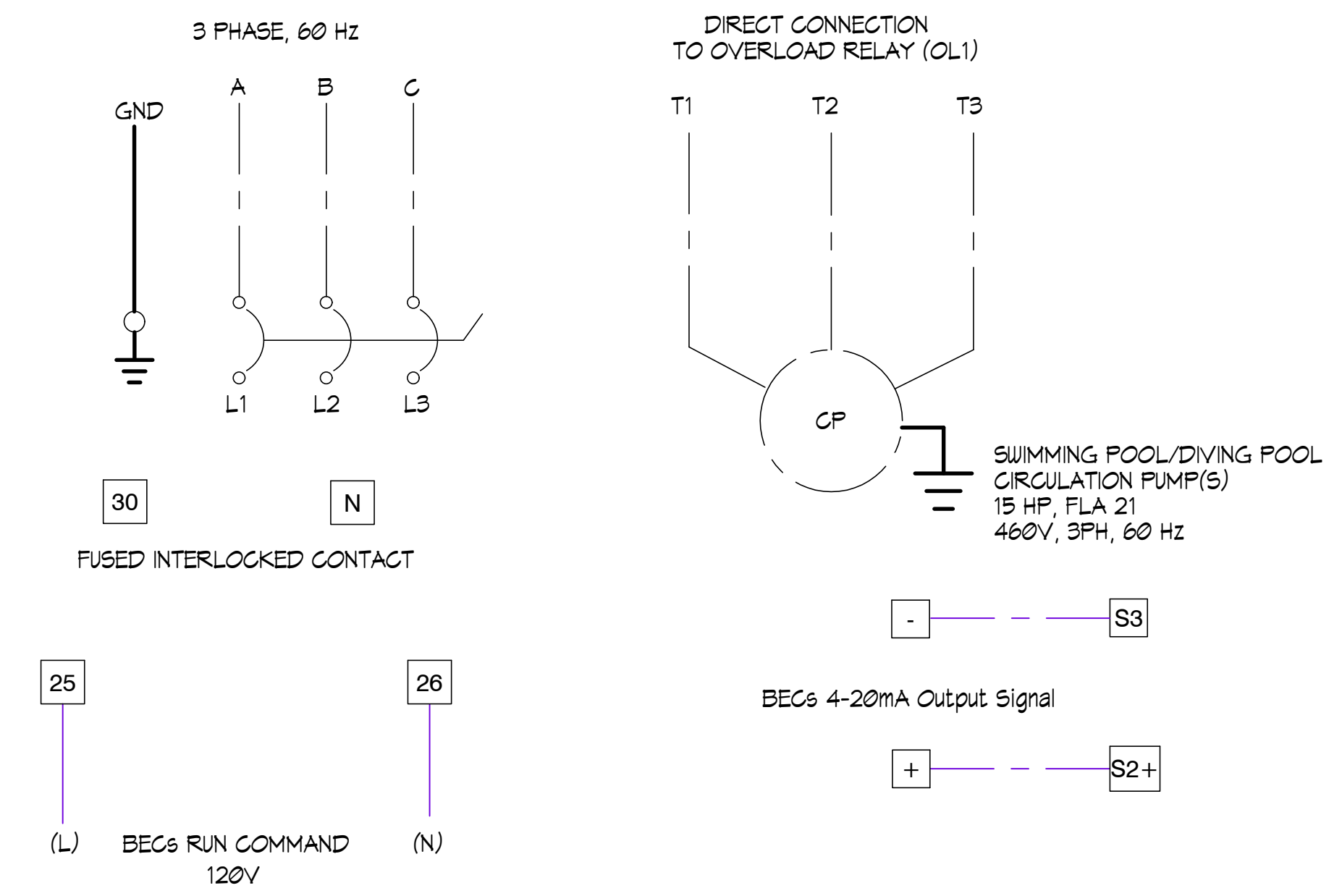
- NOTES:
- ① RCR TIMED CONTACT USED ONLY IF LINE CONTACTOR IS SUPPLIED
 - ② CONTROL TRANSFORMER SHOWN FOR 460V PRIMARY. FOR 230V PRIMARY, JUMPER H2-H3 IS
 - ③ PROGRAMMED I/O SEE CONTROLLER FUNCTION CONFIGURATION TABLE.
 - ④ BECS RUN COMMAND RELAY (BRGR)
 - ⑤ JUMPER USED WHEN START-STOP PUSH BUTTONS NOT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

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

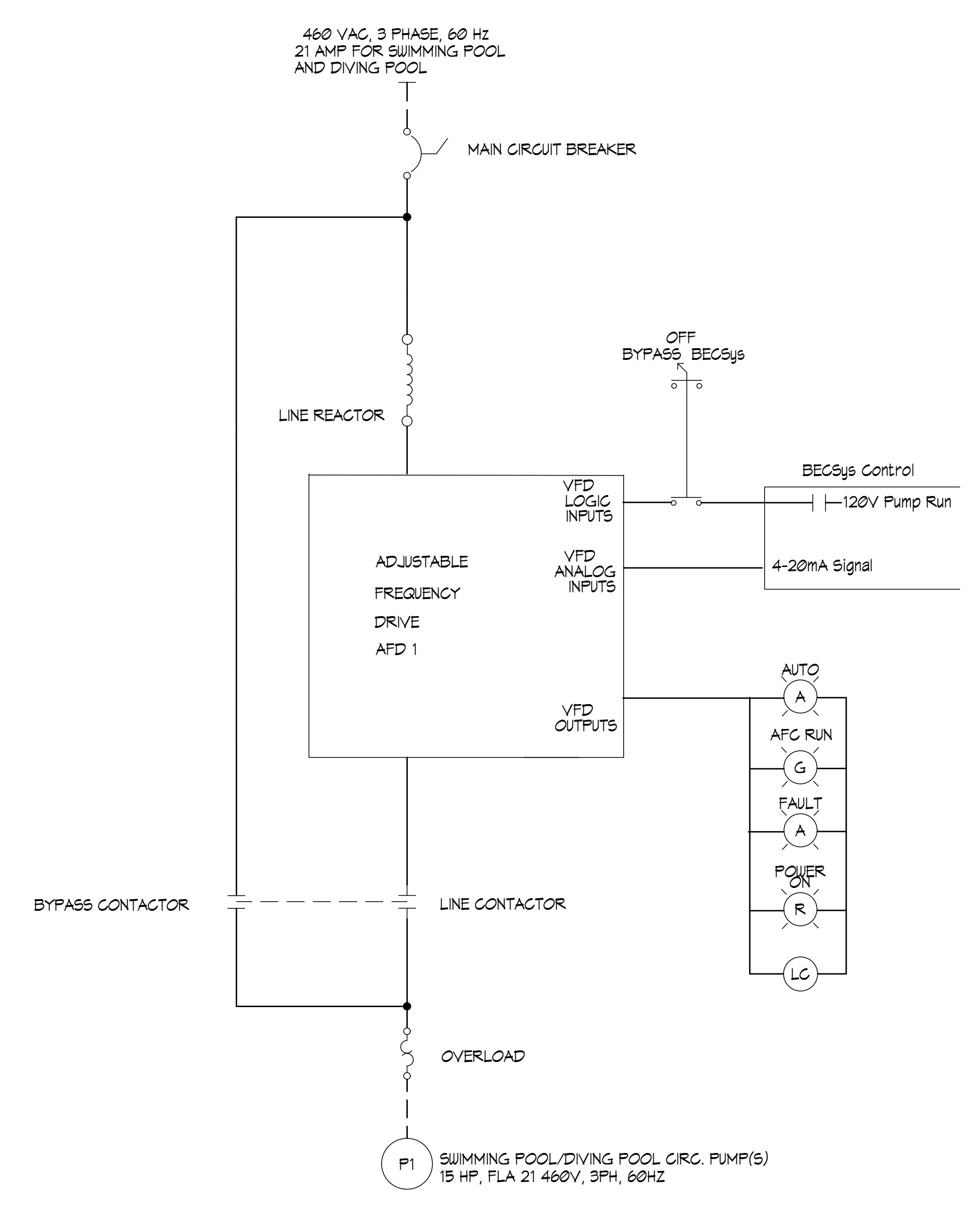


- NOTES:
- ① VARIABLE SPEED DRIVE MOTOR CONTROL CABINET, SEE PLANS AND SPECIFICATIONS.
 - ② ENCLOSED CIRCUIT BREAKER, SEE SINGLE LINE DIAGRAM.
 - ③ WATER CHEMISTRY/FILTER CONTROL UNIT, SEE PLANS.
 - ④ CONNECT TO CIRCULATION PUMP MOTOR, SEE PLANS.
 - ⑤ MOTOR FEEDERS, SEE SINGLE LINE DIAGRAM.
 - ⑥ 120 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.

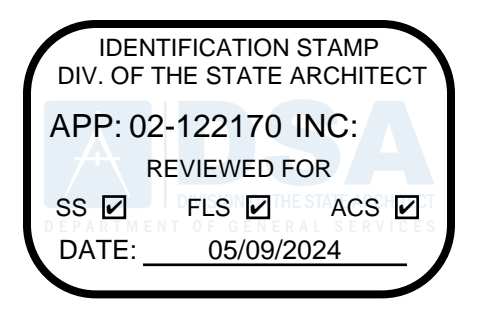
② TYPICAL WIRING SCHEMATIC AT SPCS UNIT NO SCALE



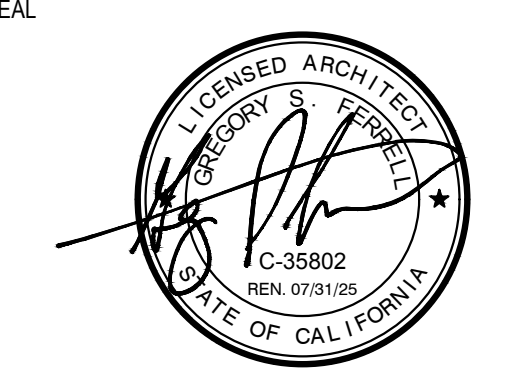
③ 'SPCS' EKO-FLEX FIELD CONNECTION DIAGRAM NO SCALE



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



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6715 GLORIA DR
 SACRAMENTO, CA 95831

CLIENT
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TITLE
DETAILS

SHEET
SP-507

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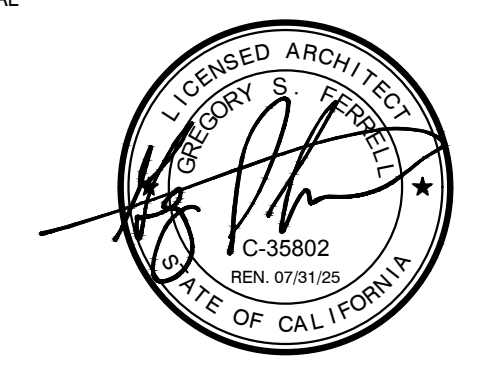
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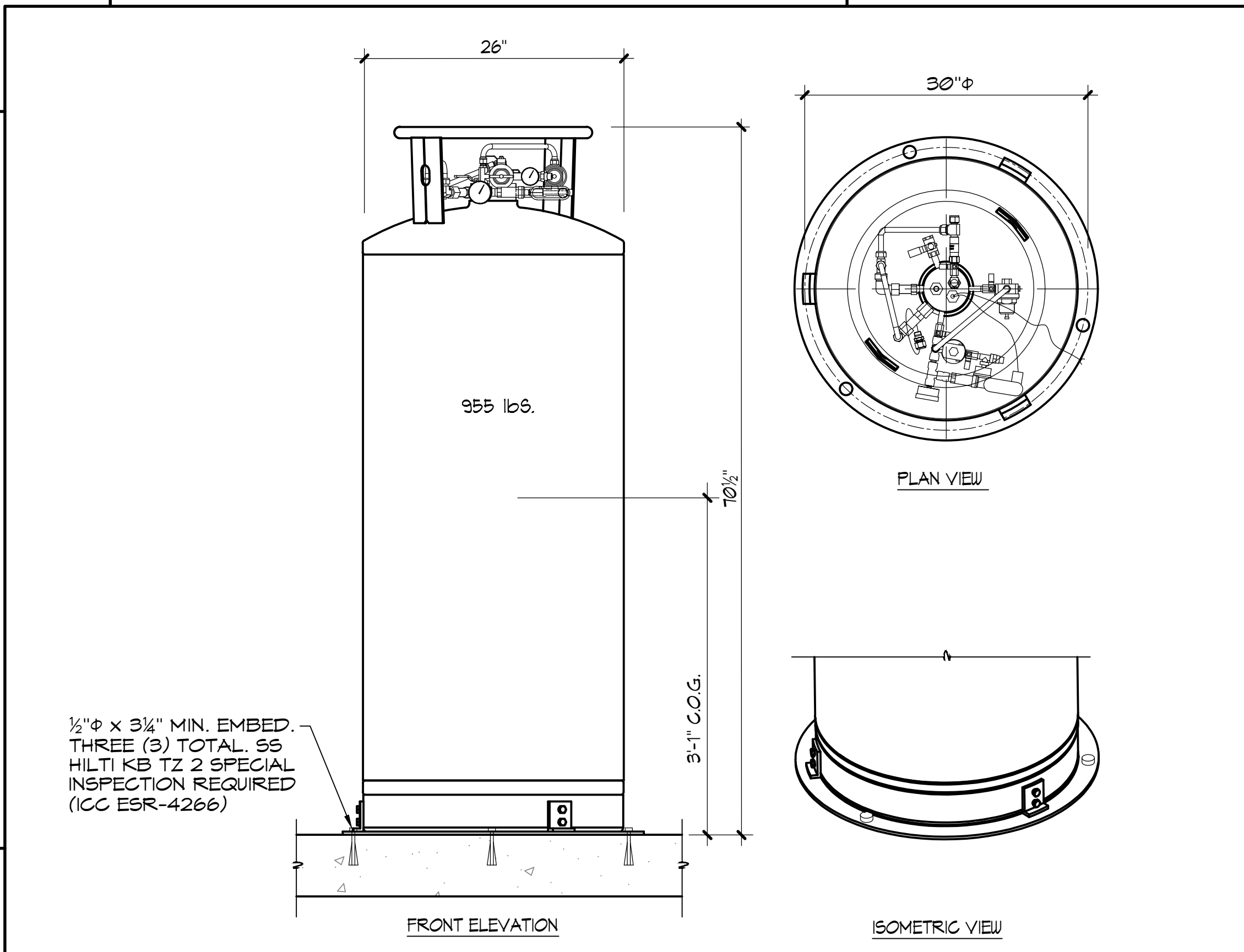
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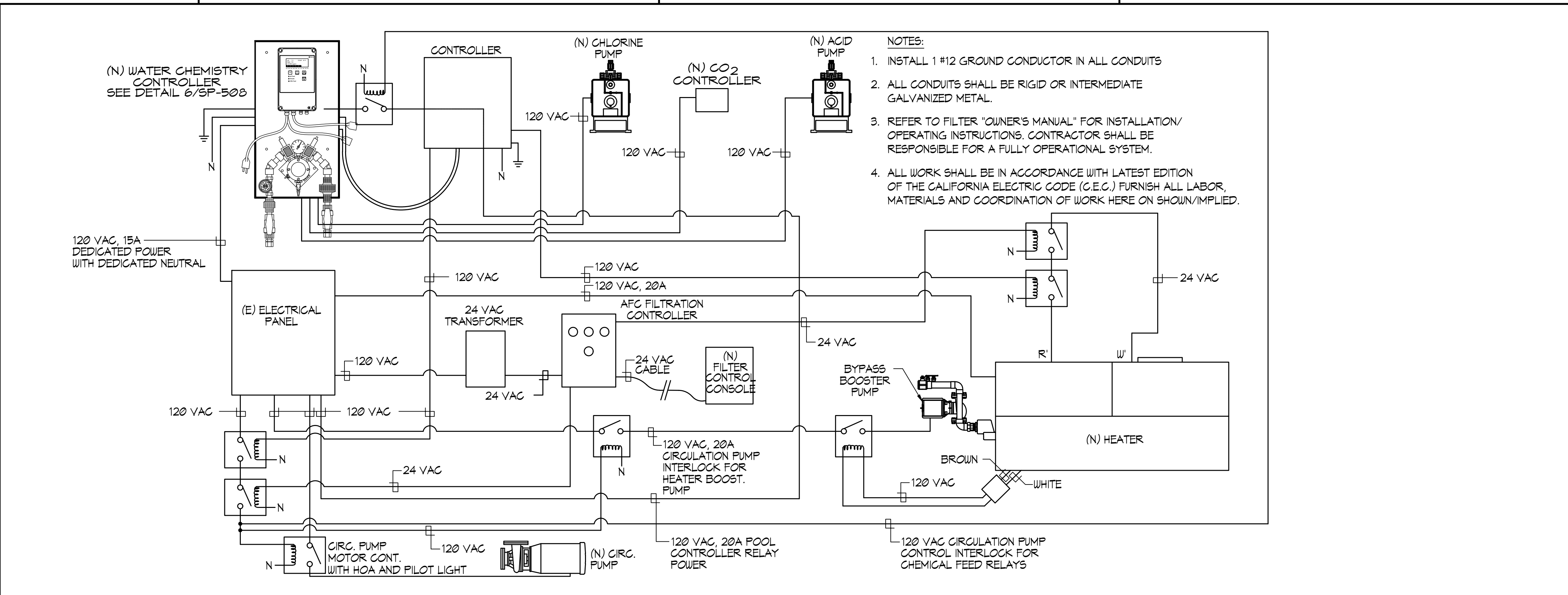
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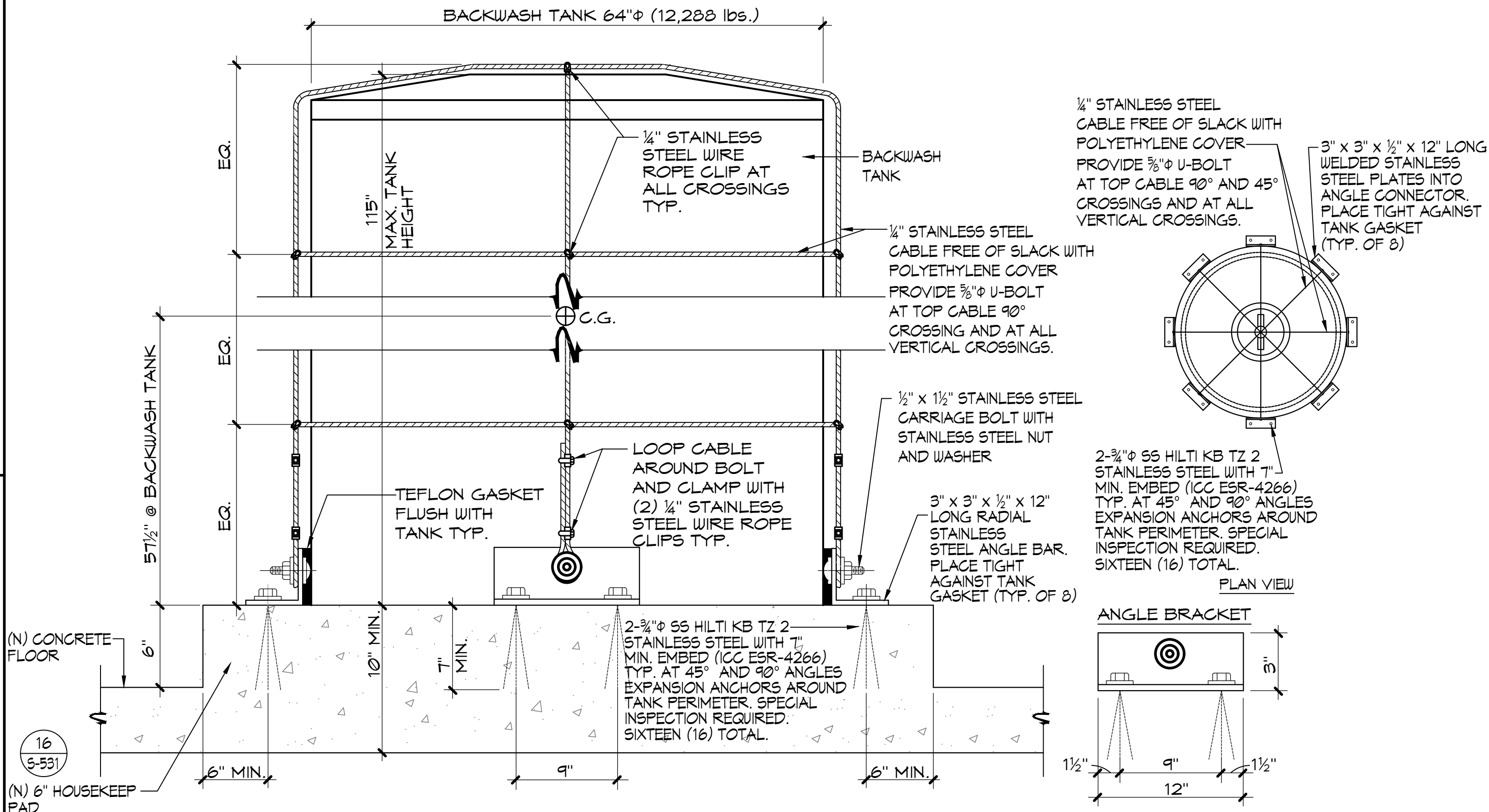
SHEET
SP-509



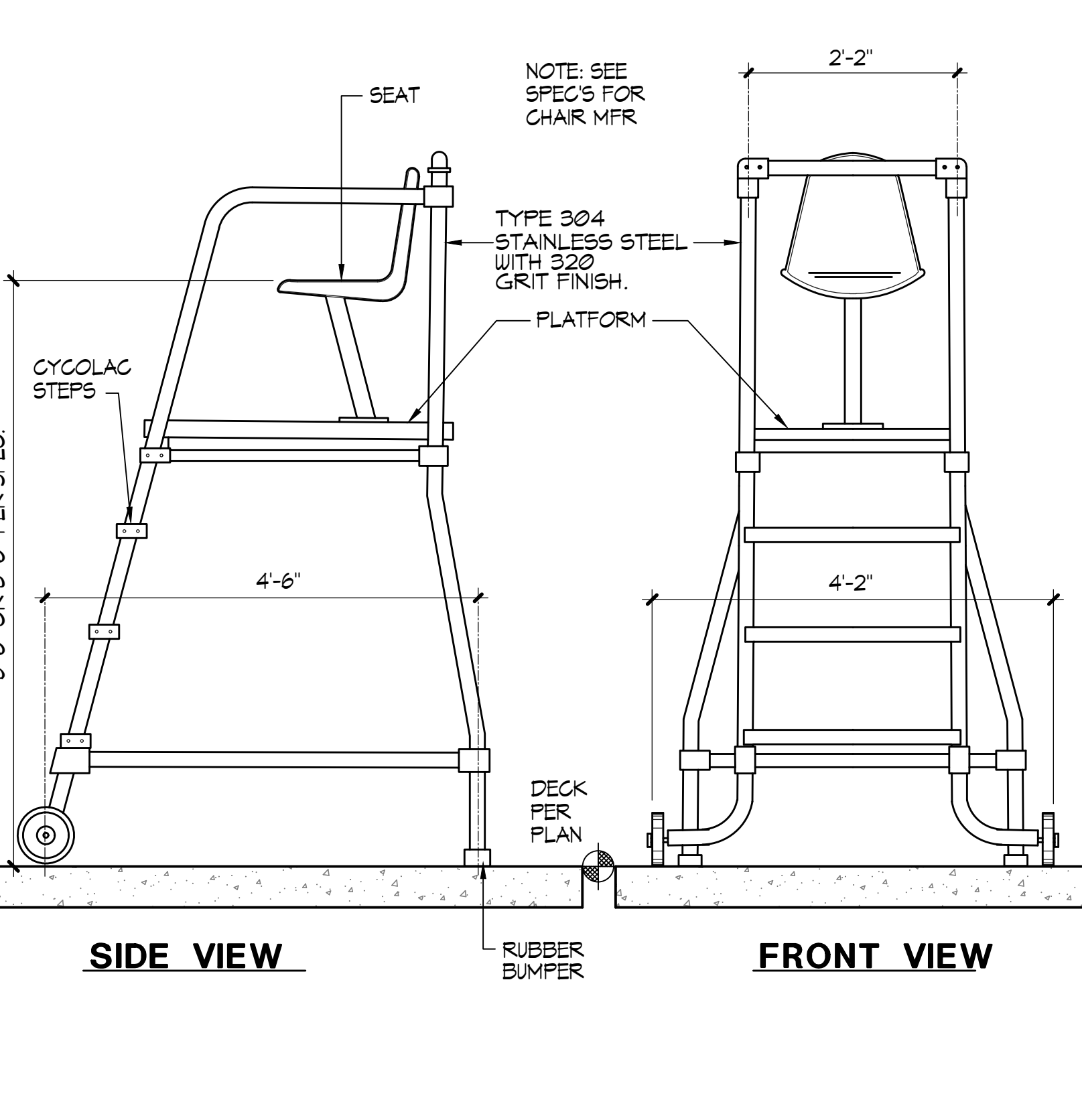
1 CO2 TANK ANCHORAGE DETAIL NO SCALE



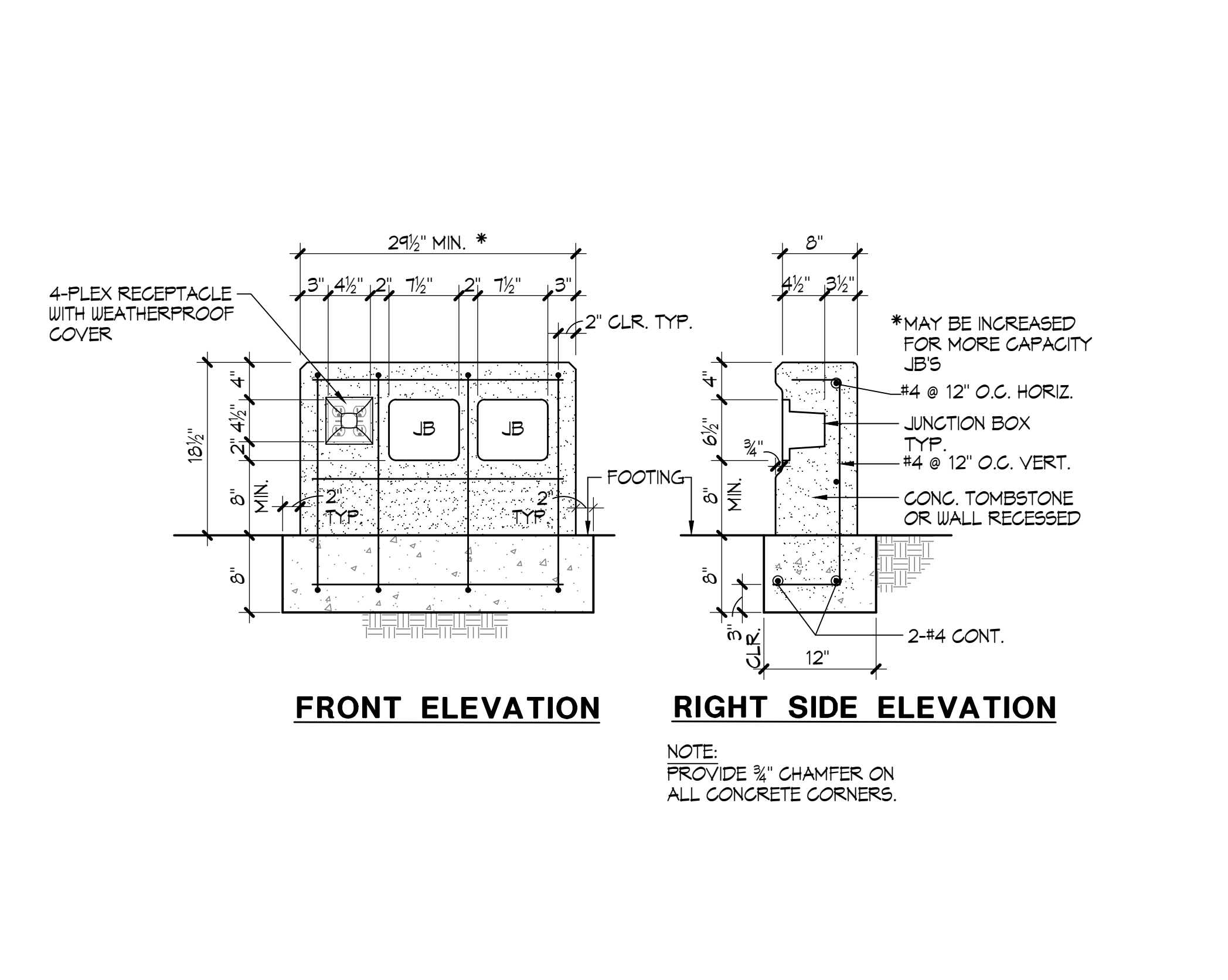
2 POOL MECHANICAL ELECTRICAL INTERCONNECTION DIAGRAM NO SCALE



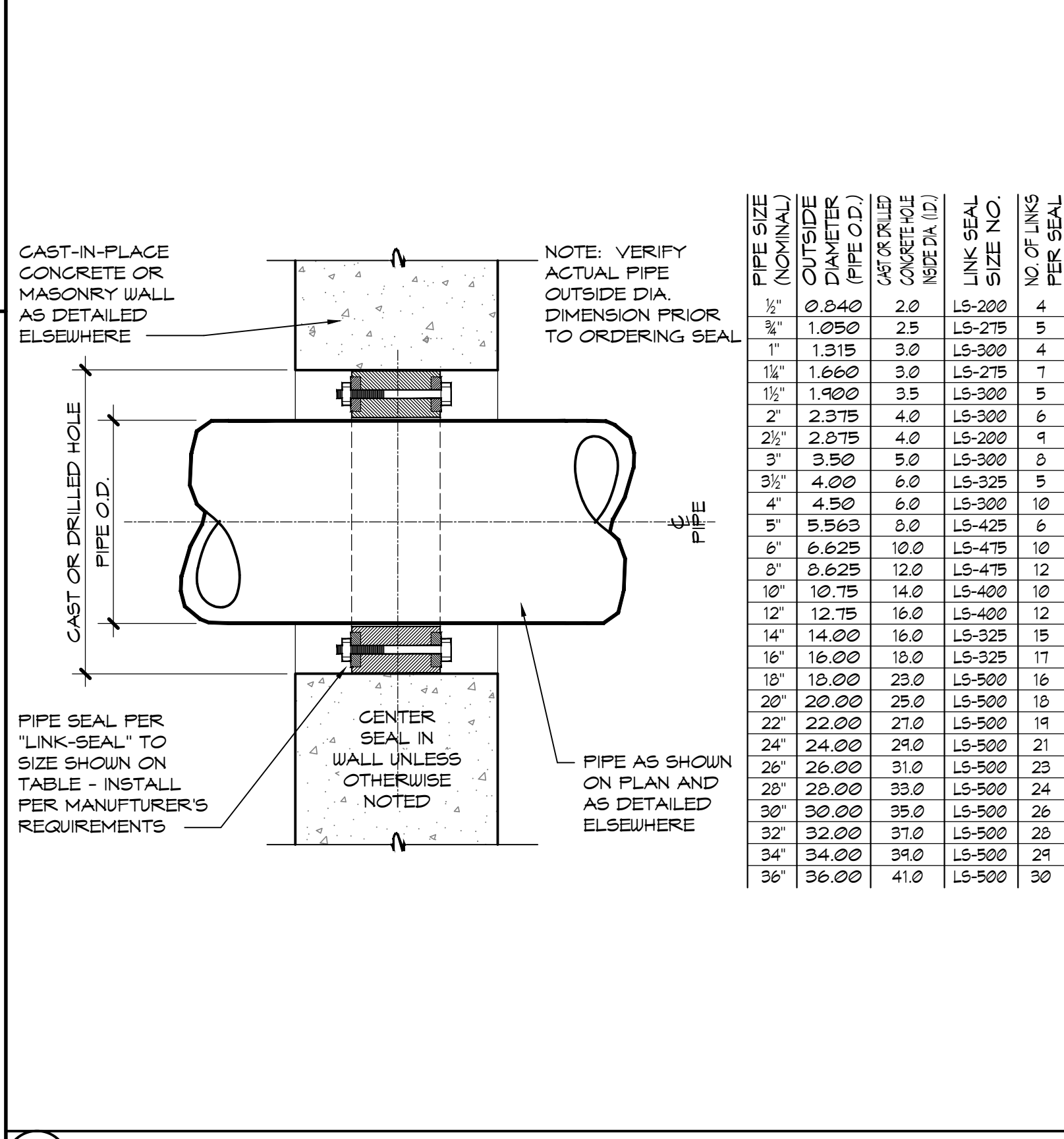
3 BACKWASH TANK ANCHOR NO SCALE



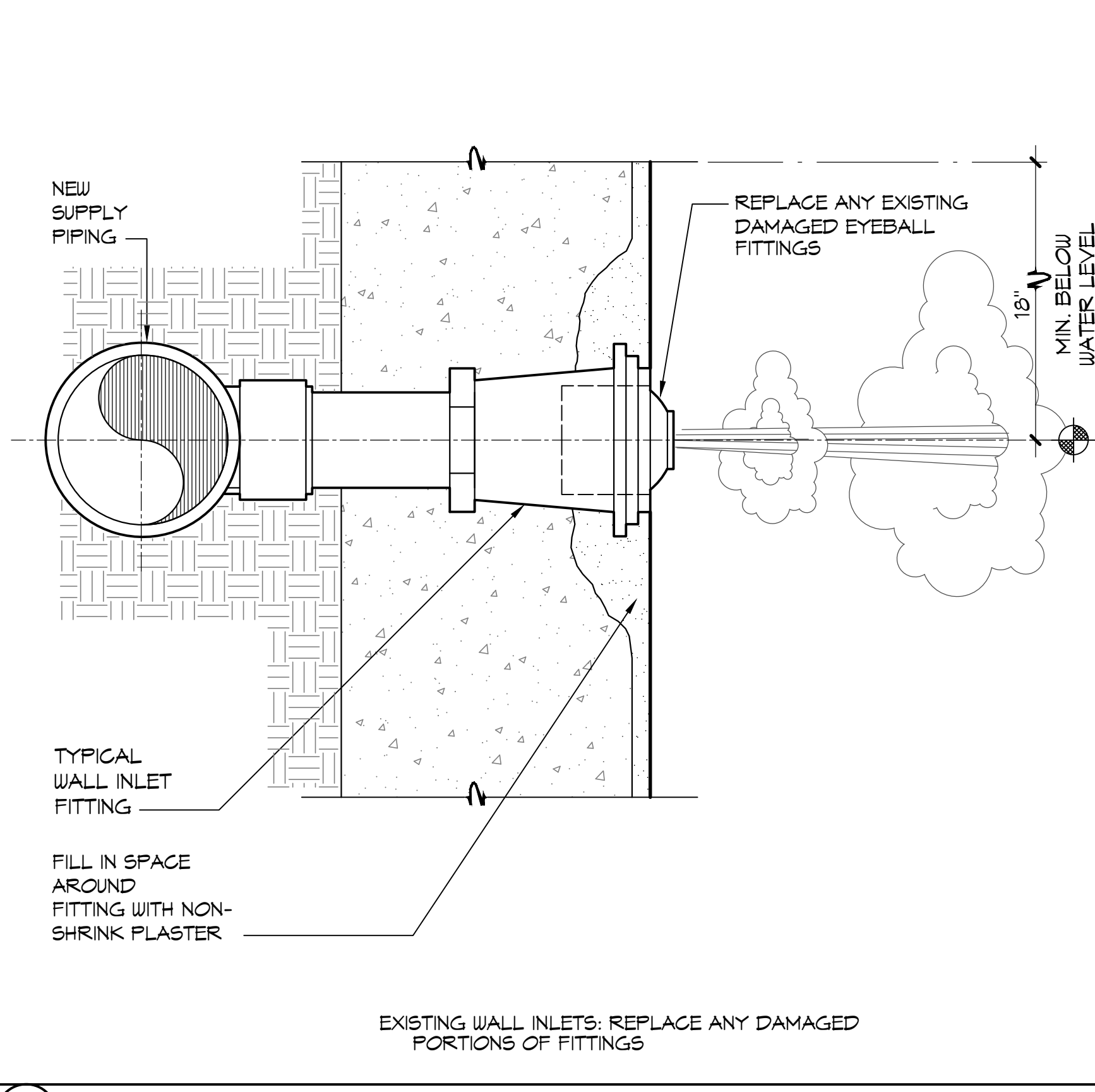
4 MOVEABLE LIFEGUARD CHAIR 3/8" = 1'-0"



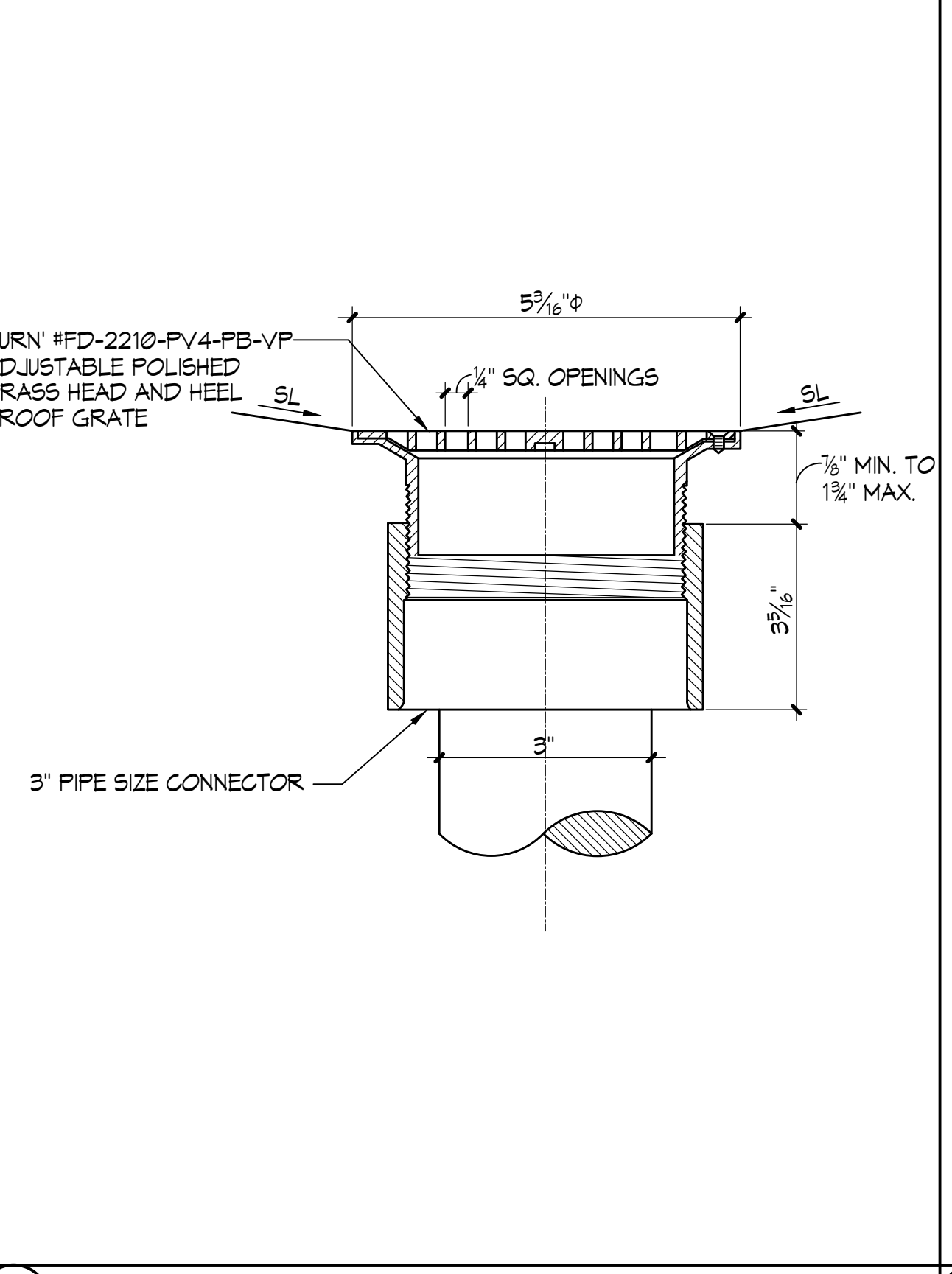
5 UNDERWATER LIGHT JUNCTION BOX CONCRETE SURROUND DETAIL 1" = 1'-0"



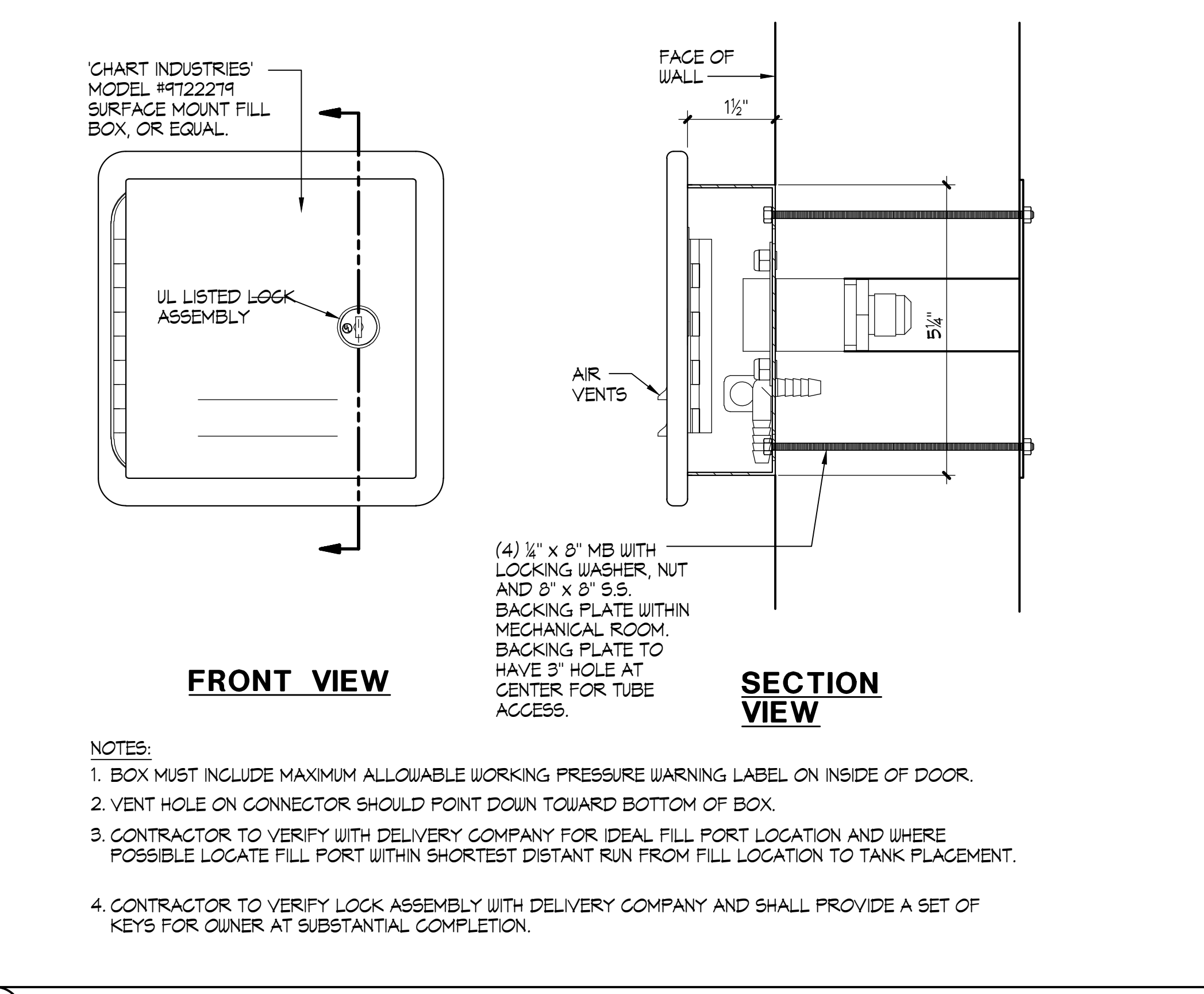
6 PIPE SEAL TO WALL / FLOOR NO SCALE



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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