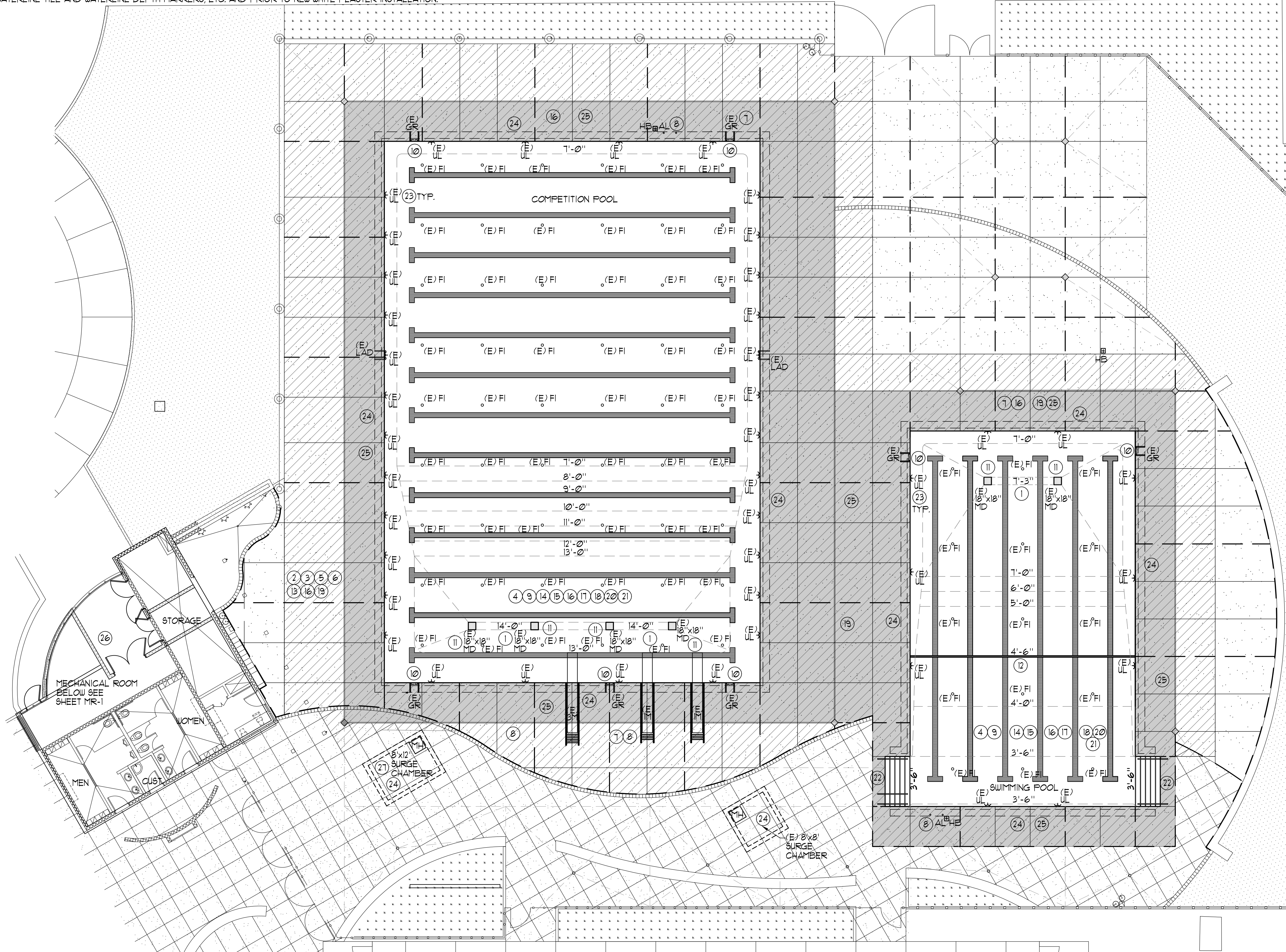


**DEMOLITION/CONSTRUCTION NOTES**

- 1 OWNER SHALL BE RESPONSIBLE FOR POOL DRAIN DOWN. CARE IS TO BE TAKEN TO RELIEVE ANY HYDROSTATIC PRESSURE THROUGH EXISTING HYDROSTATIC RELIEF VALVES AND DRAINING THE POOLS SLOWLY.
- 2 THE CONTRACTOR SHALL COORDINATE DEMOLITION WITH ALL OTHER TRADES AND SHALL PROTECT ALL EXISTING WORK, BUILDINGS, AND UTILITIES. THE CONTRACTOR SHALL FIELD VERIFY LOCATION OF AND PROTECT ALL UNDERWATER LIGHTING CONDUIT, WATER/SEWER/STORM DRAIN LINES, ETC. TO REMAIN AS REQUIRED FOR RENOVATION OF SWIMMING POOL.
- 3 COORDINATE INGRESS/EGRESS AND HAUL ROUTES WITH THE OWNER PRIOR TO START OF WORK.
- 4 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.
- 5 COORDINATE PROPOSED CONTRACTOR STAGING AREA WITH THE OWNER PRIOR TO CONSTRUCTION.
- 6 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, AC 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.
- 7 REMOVE EXISTING DECK EQUIPMENT TO REMAIN PRIOR TO DEMOLITION. PROVIDE NEW ANCHORS AND BOND TO NEW DECKING REINFORCEMENT. CONTRACTOR TO FIELD VERIFY AND DOCUMENT LOCATION OF DECK EQUIPMENT ANCHORS AND INSTALL NEW ANCHORS TO MATCH EXISTING IN SAME LOCATIONS UNLESS OTHERWISE NOTED.
- 8 REMOVE ALL EXISTING DIVE BOARDS & STANDS. EXISTING BOARDS SHALL BE PROVIDED TO OWNER FOR FUTURE USE. PROVIDE NEW "DURAFIRM" DIVE BOARDS AND STANDS PER NEW LAYOUT ON SHEET DP-2 AND INSTALL IN NEW LOCATIONS WITH NEW DROP IN DECK ANCHORS. REMOVE AND PROTECT EXISTING GRABRAILS AND HANDRAILS DURING CONSTRUCTION AND CLEAN, POLISH AND REINSTALL WITH NEW ANCHORS IN AFFECTED DECK REMOVAL/ COATING AREA AFTER WORK HAS BEEN COMPLETED. PROVIDE NEW ACCESSIBLE LIFTS, FOOTING AND ANCHORS PER PLAN. CONTRACTOR SHALL SAWCUT EXISTING DECK IF ONLY DECK COATING BID IS CHOSEN TO INSTALL NEW ACCESSIBLE LIFT REINFORCED ANCHOR AND DOVEL INTO EXISTING SURROUNDING CONCRETE DECK. SUBMIT SHOP DRAWINGS FOR APPROVAL FOR LIFT INSTALL AND REPAIR.
- 9 REMOVE ALL EXISTING SWIMMING POOL FINISHES INCLUDING PLASTER, TILE, ETC. DOWN TO ORIGINAL SOUND CONCRETE/SHOTCRETE. ANY CRACKS LARGER ENOUGH TO INSERT THE EDGE OF A TIE INTO, SHALL BE CHIPPED OUT TO A MINIMUM OF 3/4"x3", AND THEN FILLED FLUSH WITH NON-SHRINK GROUT. ALL EXPOSED REBAR, RUST SPOTS, ETC. SHALL BE BUSHED DOWN 1/2" BELOW FINISH SURFACE, ZINC COATED AND FILLED FLUSH WITH NON-SHRINK GROUT. ANY OTHER IMPERFECTIONS IN THE POOL SHELL SHALL BE REPAIRED PRIOR TO INSTALLING NEW TILED LANE LINES, WALL TARGETS, WATERLINE TILE AND WATERLINE DEPTH MARKERS, ETC. AND PRIOR TO NEW WHITE PLASTER INSTALLATION.

- 10 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 CYCOLAC STEPS SHALL BE INSTALLED FLUSH WITH NON-SHRINK GROUT.
- 11 REMOVE EXISTING MAIN DRAIN FRAMES AND GRATES AND INSTALL NEW 18"x18" LAUSON AQUATICS' MLD-FG-1818 FRAME AND GRATES. THE CONTRACTOR SHALL CERTIFY THE MAIN DRAIN SYSTEMS AS V.G.B. COMPLIANT. THE CONTRACTOR SHALL ENSURE THAT MAIN DRAINS MEET CURRENT STANDARDS AND ARE CERTIFIED WITH CURRENT REQUIREMENTS. WATERPROOF EXISTING FIELD BUILT SUMPS WITH PLASTER PRIOR TO PLACING NEW GRATES.
- 12 REMOVE EXISTING 4'-6" WATER DEPTH TILE MARKER (4" LINE) AND PROVIDE NEW TILE PER SPECIFICATIONS.
- 13 REMOVE EXISTING POOL DECKS AS SHOWN HATCHED. CARE SHALL BE TAKEN TO NOT EXCAVATE (E) UNDERWATER LIGHT CONDUITS. 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 2% MAXIMUM. CONTRACTOR SHALL FIELD VERIFY DECK DRAIN LOCATIONS AND EXISTING POINTS OF CONNECTION TO DECK DRAIN LINES. IF ANY CONDUITS ARE DAMAGED THEY SHALL BE REPLACED. NO SPlicing OF WIRES SHALL BE PERMITTED.
- 14 THE CONTRACTOR SHALL ENSURE 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.
- 15 THE CONTRACTOR SHALL PROVIDE A SUFFICIENT NUMBER OF WORKERS TO ENSURE THAT THE ENTIRE POOL CAN BE PLASTERED IN A SINGLE DAY OR SHALL PROVIDE CONTINUAL MISTING OF PLASTERED SURFACES TO ENSURE THAT PLASTER IS NOT EXPOSED TO THE AIR FOR A PERIOD OF TIME WHICH WOULD CAUSE DAMAGE IN ANY WAY.
- 16 THE CONTRACTOR SHALL REPAIR OR REPLACE ANY ITEMS DAMAGED DUE TO DEMOLITION AND/OR CONSTRUCTION, AT NO COST TO THE OWNER INCLUDING BUT NOT LIMITED TO UTILITIES, FITTINGS, EQUIPMENT, ANCHORS, ETC.
- 17 REMOVE AND REPLACE ALL FLOOR INLET COVERS AND WALL INLET FITTINGS COMPLETELY PER DETAIL AND SPECIFICATIONS. PROVIDE 12"x12" OF 1"x1" DALL TILE D311 BISCUIT WHITE AROUND ALL FLOOR INLETS TYP.
- 18 REPLACE ALL EXISTING POOL TILE INCLUDING ALL RACING LANE LINES AND END WALL TARGETS, TRIM TILE, FLOOR INLET TILE, HANDHOLD TILE AND DEPTH MARKERS. DEPTH MARKERS SHALL BE LOCATED AT MAXIMUM 25'-0" O.C. AROUND ENTIRE POOL PERIMETER AND SHALL HAVE MINIMUM 4" TALL NUMBERS AND LETTERS. PROVIDE NEW INTERNATIONAL NO DIVING TILES AT ALL DEPTH MARKER LOCATIONS 6'-0" DEPTH OR SHALLOWER. PREPARE ALL SURFACES TO RECEIVE NEW TILE PER PLANS.
- 19 REFER TO SHEET DP-2 FOR NEW DECK LAYOUT PLAN AND SLOT DRAIN IN COORDINATION WITH CONTRACTOR FIELD LAYOUT. ALL NEW CONCRETE SHALL BE 4,000 PSI MINIMUM AT 28 DAYS. SEE SPECIFICATIONS FOR MIX DESIGN REQUIREMENTS.

- 20 REFER TO SHEET 6P-1 AND 6P-1 FOR NEW POOL LAYOUT PLAN IN COORDINATION WITH CONTRACTOR FIELD LAYOUT AND EXISTING INFORMATIONAL PLANS.
- 21 THE OWNER SHALL IDENTIFY THE SWIMMING POOL FILL WATER SOURCE FROM CLOSEST POTABLE WATER SOURCE AND SHALL FILL TO 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 FOURTEEN (14) DAYS AFTER PLASTER. THE CONTRACTOR SHALL COORDINATE HIS EFFORTS WITH THE OWNER'S STAFF TO PROVIDE INSTRUCTION AND TRAINING IN PROPER OPERATION OF POOL. IN CONJUNCTION WITH NEW PLASTER SURFACES.
- 22 CONTRACTOR SHALL EXTEND TOP STEP TREAD INTO THE DECK BY 2" IN THE SWIMMING POOL, TO ACHIEVE CALIFORNIA CODE COMPLIANT 14" TOP RISER.
- 23 COMPLETELY REMOVE AND REPLACE THE EXISTING UNDERWATER POOL LIGHT FIXTURES. BEFORE ORDERING NEW UNDERWATER POOL LIGHT FIXTURES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE CONDITION OF EACH EXISTING POOL LIGHT NICHE TO ENSURE THEY ARE NOT DAMAGED AND HAVE BEEN INSTALLED IN ACCORDANCE WITH ARTICLE 620 OF THE GEC. THE CONTRACTOR SHALL DETERMINE THE CORRECT SIZE AND THE TYPE OF REPLACEMENT POOL LIGHT FIXTURE THAT CAN BE PROPERLY USED TO FIT AND SECURE INTO THE EXISTING NICHE. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE FIT, HOLE THREADS AND NICHE HOOK AT EACH EXISTING POOL LIGHT NICHE ARE NOT DAMAGED AND ARE COMPLETELY INTACT AND READY TO RECEIVE A NEW POOL LIGHT FIXTURE. OR BUILDING DEPARTMENT TO REVIEW AND APPROVE INSTALLATION PRIOR TO PLASTERING THE POOL. CONTRACTOR SHALL REPLACE ALL EXISTING UNDERWATER LIGHT GFCI BREAKERS IN THE SWIMMING POOL ELECTRICAL PANEL AS PART OF THIS SCOPE OF WORK.
- 24 CONTRACTOR SHALL REMOVE AND REPLACE SURGE CHAMBER WATERPROOFING, AS WELL AS ALL VALVING AND FLAT VALVES INSIDE SURGE CHAMBER. PROVIDE 2 NEW COATS OF WATERPROOFING PER SPECIFICATIONS. REMOVE AND REPLACE WATERPROOFING IN POOL GUTTERS AS WELL AS PART OF THE SCOPE OF THIS WORK.
- 25 BASE BID FOR THE DECK IS TO CLEAN AND COAT DECK AS SHOWN PER PLAN WITH 'ARDEX' K 310 DECK COATING SYSTEM TO EXTENTS SHOWN PER MANUFACTURERS REQUIREMENTS. ALTERNATE SHALL BE FOR FULL DECK REMOVAL TO EXTENTS SHOWN PER PLAN. PROVIDE PRICE FOR BOTH TO OWNER FOR A DECISION.
- 26 CONTRACTOR SHALL REMOVE EXISTING HEAT EXCHANGERS IN MECHANICAL ROOM AND REPLACE WITH NEW EQUIVALENT WITH NEW VALVES AT CONNECTION POINTS OF HEAT EXCHANGERS. REMOVE EXISTING ABANDONED CHLORINE GENERATION SYSTEM AND CAP OFF ANY PIPES AS NEEDED TO REMOVE AND DISPOSE. REPLACE EXISTING COMPETITION POOL EFFLUENT FLOOR INLET BUTTERFLY VALVE PER PLAN. CONTRACTOR SHALL ALSO INSTALL NEW 2" CHEMICAL LOOP PER PLAN AND REPLACE TWO (2) EXISTING WATER CHEMISTRY CONTROLLERS WITH NEW BECSYS SYSTEM 1 CONTROLLERS AND NEW AUTO FILTER CONTROLLERS AND CONNECT ALL WIRING TO RELAYS AND SYSTEM 1 TO PROVIDE A FULLY AUTOMATED AND FUNCTIONING SYSTEM. CONNECT TO ETHERNET FOR REMOTE AUTOMATION CONTROL AND TRAIN OWNER/OPERATOR ON ITS FUNCTIONALITY AND USE.
- 27 CONTRACTOR SHALL REMOVE AND REPLACE SURGE CHAMBER LID AND ACCESS HATCH TO EXTENTS SHOWN PER THE DETAIL TO PROVIDE NEW OPERABLE ACCESS TO THE EXISTING SURGE CHAMBER LID THAT DOES NOT CURRENTLY OPEN.



**(E) COMPETITION POOL DATA**

SURFACE AREA	=	8,127 SQ. FT.
PERIMETER	=	367.1 FT.
DEPTH	=	7'-0" TO 14'-0"
VOLUME	=	548,483 GAL.
6 HR TURNOVER	=	1524 GPM

**(E) SWIMMING POOL DATA**

SURFACE AREA	=	3,479 SQ. FT.
PERIMETER	=	250 FT.
DEPTH	=	3'-6" TO 7'-3"
VOLUME	=	128,155 GALLONS
6 HR TURNOVER	=	358 GPM

**LEGEND**

- HR = HAND RAIL (2 DP-3)
- LAD = LADDER (3 DP-6)
- RP = RACING PLATFORM (2 DP-4)
- GR = GRABRAIL (1 DP-6)
- IM = ONE METER DIVE STAND (3 DP-5)
- 3M = THREE METER DIVE STAND (5 DP-5)
- HB = HOSE BIBB (4 DP-8)
- MD = MAIN DRAIN (3 DP-3)
- UL = UNDERWATER LIGHT (1 DP-4)
- FI = FLOOR INLET (5 DP-4)
- AL = ACCESSIBLE LIFT (4 DP-5)

- (E) = EXISTING
- [Hatched Box] = BASE BID PREPARE EXISTING DECK FOR NEW DECK COATING

**ADDITIVE ALTERNATE DECK DEMO/ REPLACEMENT**

SURFACE AREA	=	11,685 SQ. FT.
[Hatched Box]	=	LIMITS OF REMOVAL



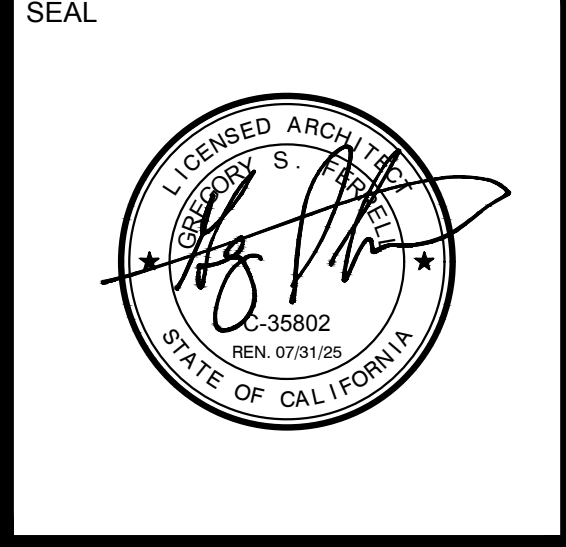
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**LAS POSITAS COLLEGE**  
**AQUATIC CENTER RENOVATION**  
**3033 COLLIER CANYON ROAD**  
**LIVERMORE, CALIFORNIA 94551**

**REVISIONS**

NO.	DATE	DESCRIPTION

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**DRAWING TITLE**  
**DEMOLITION PLAN**

PROJECT NO.	2023.037
DRAWN BY	GSF
CHECKED BY	GSF
DATE	10/16/23
DRAWING NO.	

**DP-1**

**COMPETITION POOL/SWIMMING POOL DEMOLITION PLAN**

1" = 10'-0"

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DRAWING TITLE

**COMPETITION/  
SWIMMING  
POOL DECK  
PLAN AS BUILT**

PROJECT NO. 2023.037

DRAWN BY GSF

CHECKED BY GSF

DATE 10/16/23

DRAWING NO.

**DP-2**

**COMPETITION POOL DATA**

SURFACE AREA	=	8,121 SQ. FT.
PERIMETER	=	367 FT.
DEPTHS	=	7'-0" TO 14'-0"
VOLUME	=	548,489 GAL.
6 HR TURNOVER	=	1,524 GPM

**SWIMMING POOL DATA**

SURFACE AREA	=	3,479 SQ. FT.
PERIMETER	=	250 FT.
DEPTH	=	3'-6" TO 7'-3"
VOLUME	=	128,755 GALLONS
6 HR TURNOVER	=	358 GPM

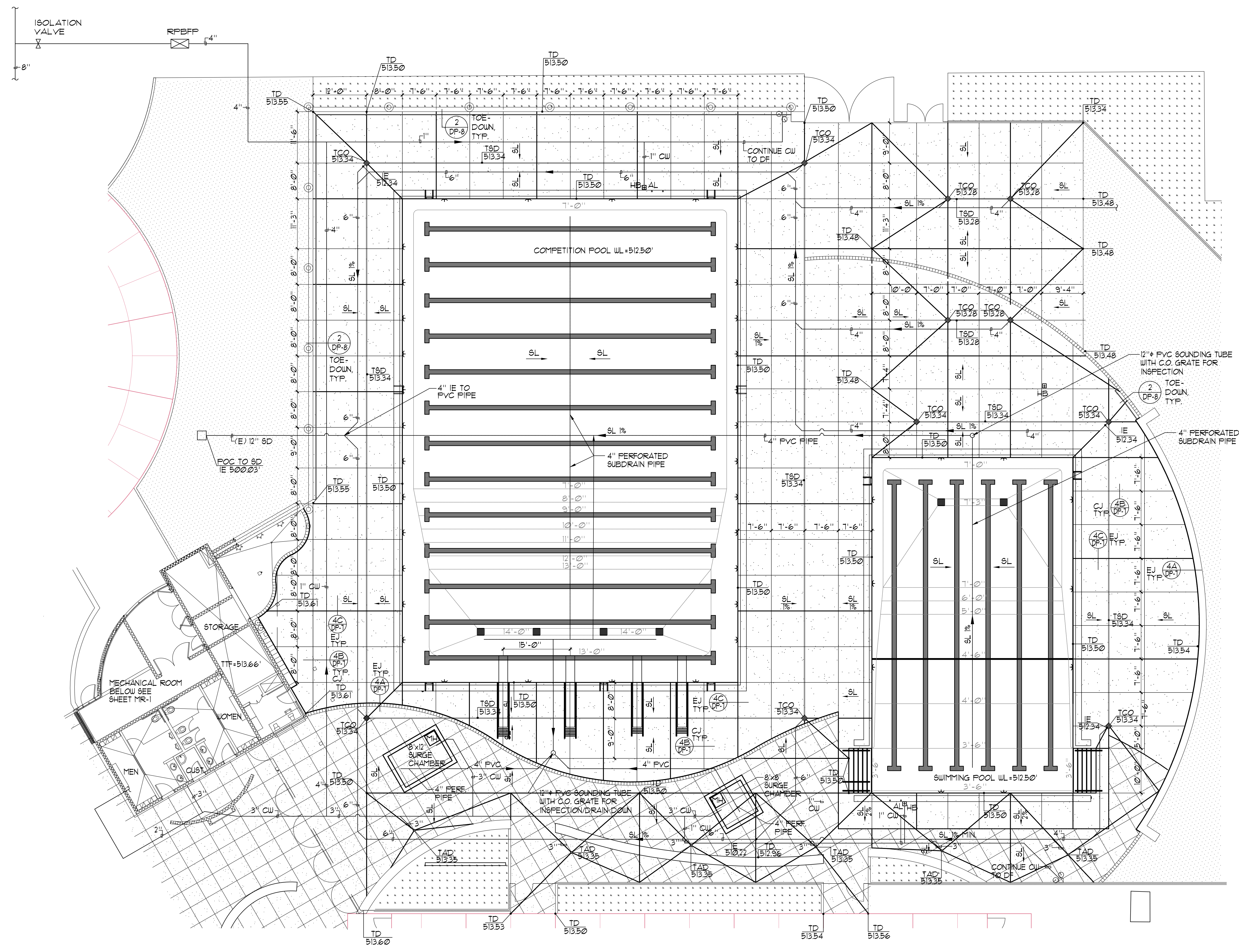
**(N) DECK DATA**

SURFACE AREA	=	11,685 SQ. FT.
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**LEGEND**

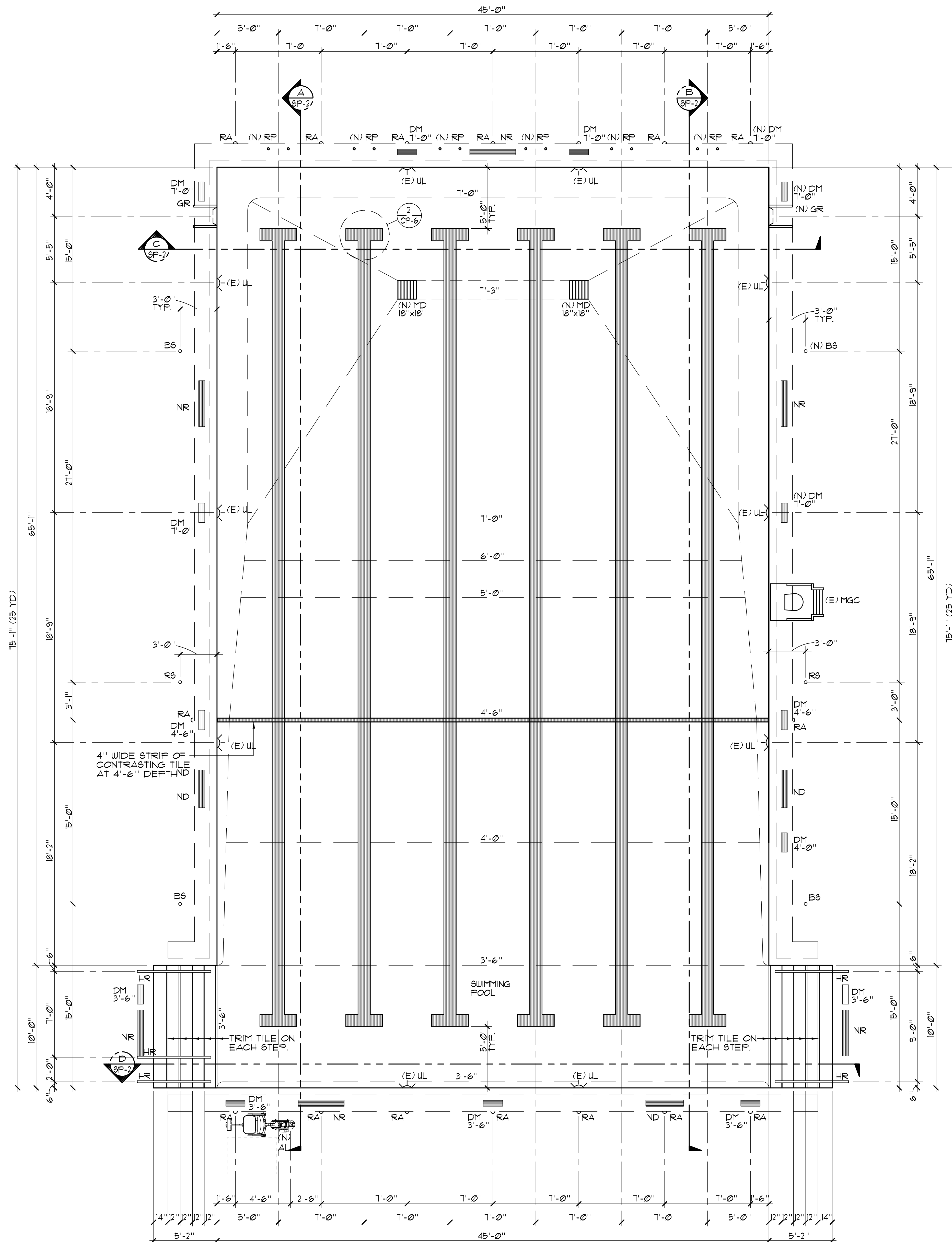
EJ	=	EXPANSION JOINT	4A	4C
CJ	=	CONTROL JOINT	4B	DP-1
T&D	=	TOP OF SLOT DRAIN	5	DP-1
TCO	=	TOP OF CLEAN-OUT	5	DP-1
HB	=	HOSE BIBB	4	DP-8
AL	=	ACCESSIBLE LIFT	4	DP-5
MH	=	MANHOLE		
SD	=	STORM DRAIN		
SL	=	SLOPE DIRECTION		
WL	=	WATERLEVEL		
TD	=	TOP OF DECK		
I.E.	=	INVERT ELEVATION		
T.F.F.	=	TOP OF FINISH FLOOR		
CW	=	COLD WATER		
DF	=	DRINKING FOUNTAIN		
TAD	=	TOP OF AREA DRAIN		
RPBFP	=	REDUCED PRESSURE BACK FLOW PREVENTOR		

CONTRACTOR SHALL UTILIZE EXISTING AS BUILT PLAN FOR NEW DECK ELEVATIONS AND INFRASTRUCTURE POINTS OF CONNECTION. FIELD VERIFY ALL CONDITIONS. SUBMIT RFI FOR ANY DISCREPANCIES.



**COMPETITION POOL/SWIMMING POOL DECK PLAN AS-BUILT** 1"=10'-0"





**(E) SWIMMING POOL DATA**

SURFACE AREA	=	3,479 SQ. FT.
PERIMETER	=	250 FT.
DEPTH	=	3'-6" TO 7'-3"
VOLUME	=	120,755 GALLONS
6 HR TURNOVER	=	358 GPM

**LEGEND**

HR	=	HAND RAIL	2	DP-3
LAD	=	LADDER	3	DP-6
RP	=	RACING PLATFORM	2	DP-4
GR	=	GRABRAIL	1	DP-6
HB	=	HOSE BIBB	4	DP-8
MD	=	MAIN DRAIN	3	DP-3
UL	=	UNDERWATER LIGHT	1	DP-4
FI	=	FLOOR INLET	5	DP-4
AL	=	ACCESSIBLE LIFT	1	DP-3
(E)	=	EXISTING		
(N)	=	NEW		



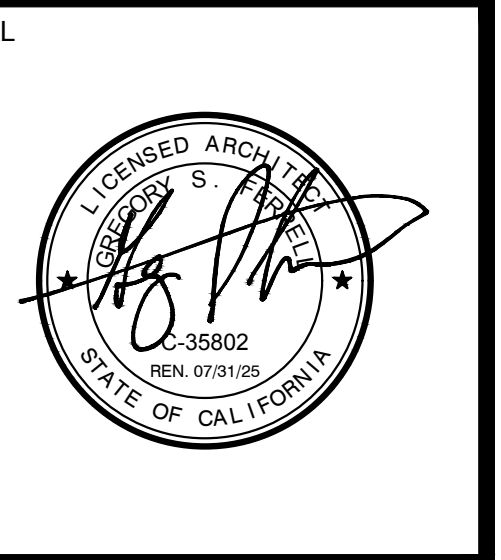
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DRAWING TITLE  
**SWIMMING POOL LAYOUT PLAN**

PROJECT NO.	2023.037
DRAWN BY	GSF
CHECKED BY	GSF
DATE	10/16/23

DRAWING NO.  
**DP-2.1**

**SWIMMING POOL LAYOUT PLAN**

1/4" = 1'-0"

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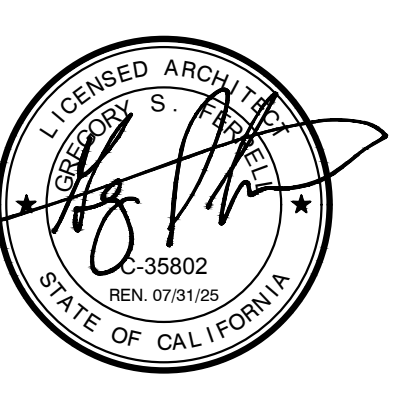
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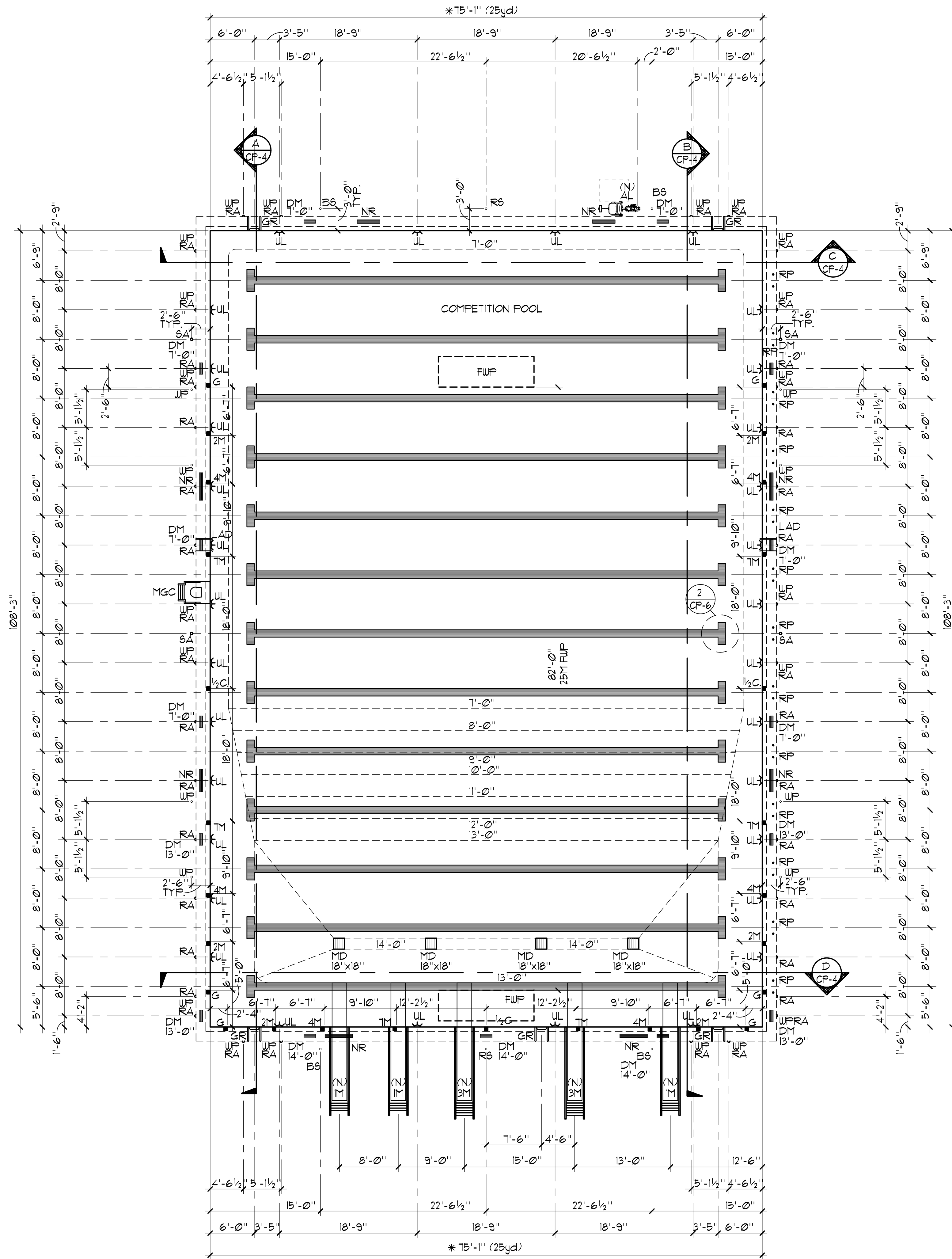
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DRAWING TITLE  
**COMPETITION POOL LAYOUT PLAN**

PROJECT NO.	2023.037
DRAWN BY	GSF
CHECKED BY	GSF
DATE	10/16/23

DRAWING NO.  
**DP-2.2**



**COMPETITION POOL DATA**

SURFACE AREA	=	8,121 SQ. FT.
PERIMETER	=	367 FT.
DEPTHS	=	7'-0" TO 14'-0"
VOLUME	=	548,483 GAL.
6 HR TURNOVER	=	1,524 GPM

**LEGEND**

MD	=	MAIN DRAIN	DP-3
RA	=	ROPE ANCHOR	DP-5
UL	=	UNDERWATER LIGHT	DP-4
DM	=	DEPTH MARKER	DP-7
NR	=	NO RUNNING	DP-6
EP	=	WATERPOLO GOAL ANCHOR	DP-5
BS	=	BACKSTROKE STANCHION	DP-4
RS	=	RECALL STANCHION	DP-4
RP	=	RACING PLATFORM	DP-4
MGC	=	MOVEABLE GUARD CHAIR	DP-9
AL	=	ACCESSIBLE LIFT	DP-9
HB	=	HOSE BIBB	DP-6
GR	=	GRABRAIL	DP-6
LAD	=	LADDER	DP-6
FUP	=	FLOATING WATERPOLO GOAL	DP-6
G, 2M, 4M, 7M, 1/2C	=	WATERPOLO MARKERS	DP-4
SA	=	STANCHION ANCHOR	DP-5
1M	=	ONE METER DIVE STAND	DP-5
3M	=	THREE METER DIVE STAND	DP-5
N	=	NEW	DP-5

**CERTIFICATION REQUIREMENTS**

\* THE CONTRACTOR SHALL RETAIN AN INDEPENDENT LICENSED SURVEYOR TO PROVIDE CERTIFICATION OF COMPLIANCE FOR REQUIRED POOL LENGTHS IN ACCORDANCE WITH USA SWIMMING REGULATIONS. THE SURVEYOR SHALL SUBMIT THE COMPLETED FORM TO USA SWIMMING NATIONAL EVENTS DEPARTMENT AND PROVIDE COPIES TO OWNER AND ARCHITECT.

SHORT COURSE - 25 YDS; (ALLOWS FOR TOUCH PADS AT ONE END) 15'-0" 5/16" MIN.; 15'-1" 3/16" MAX.

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

**COMPETITION POOL LAYOUT PLAN**

1/8" = 1'-0"



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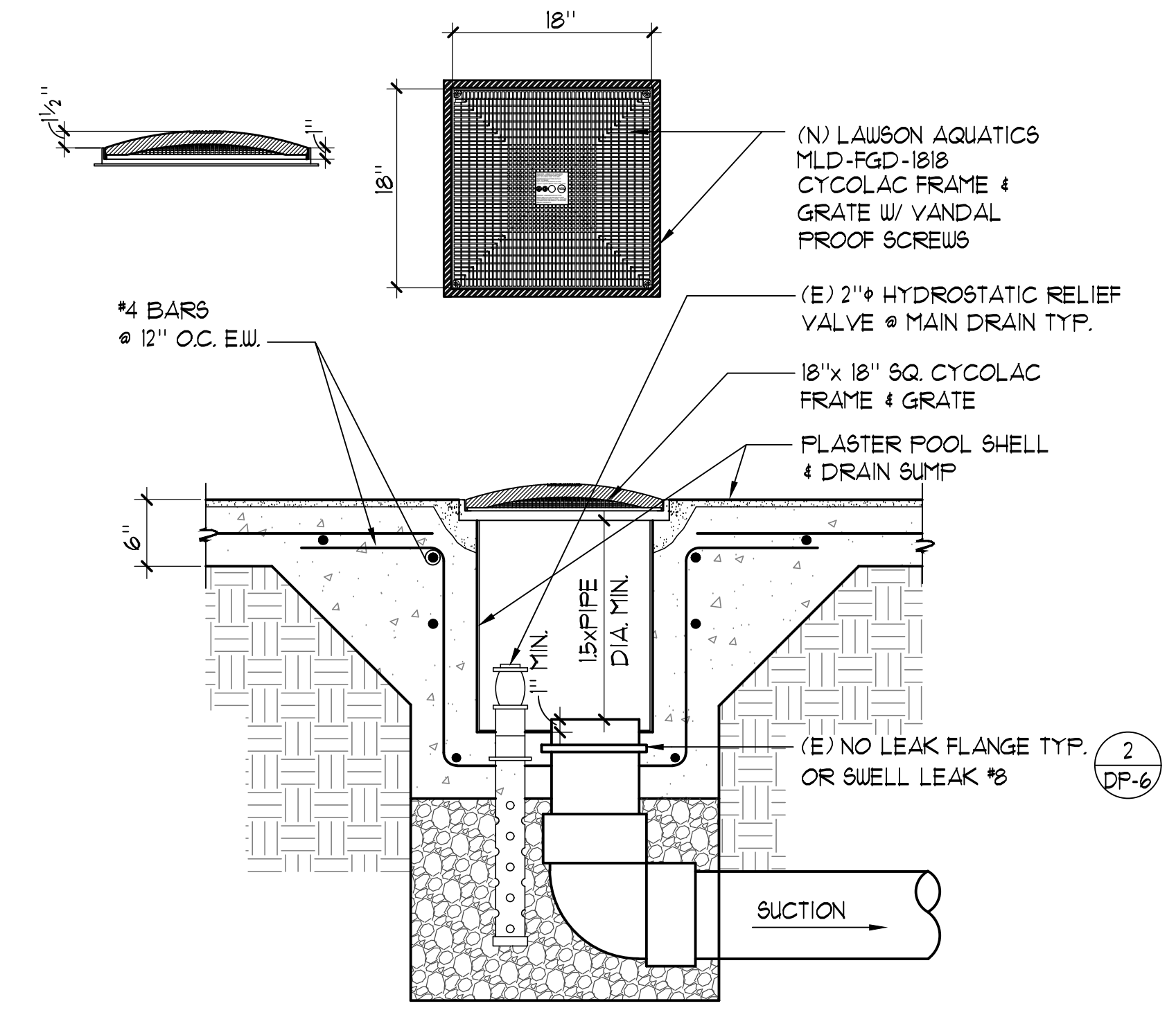
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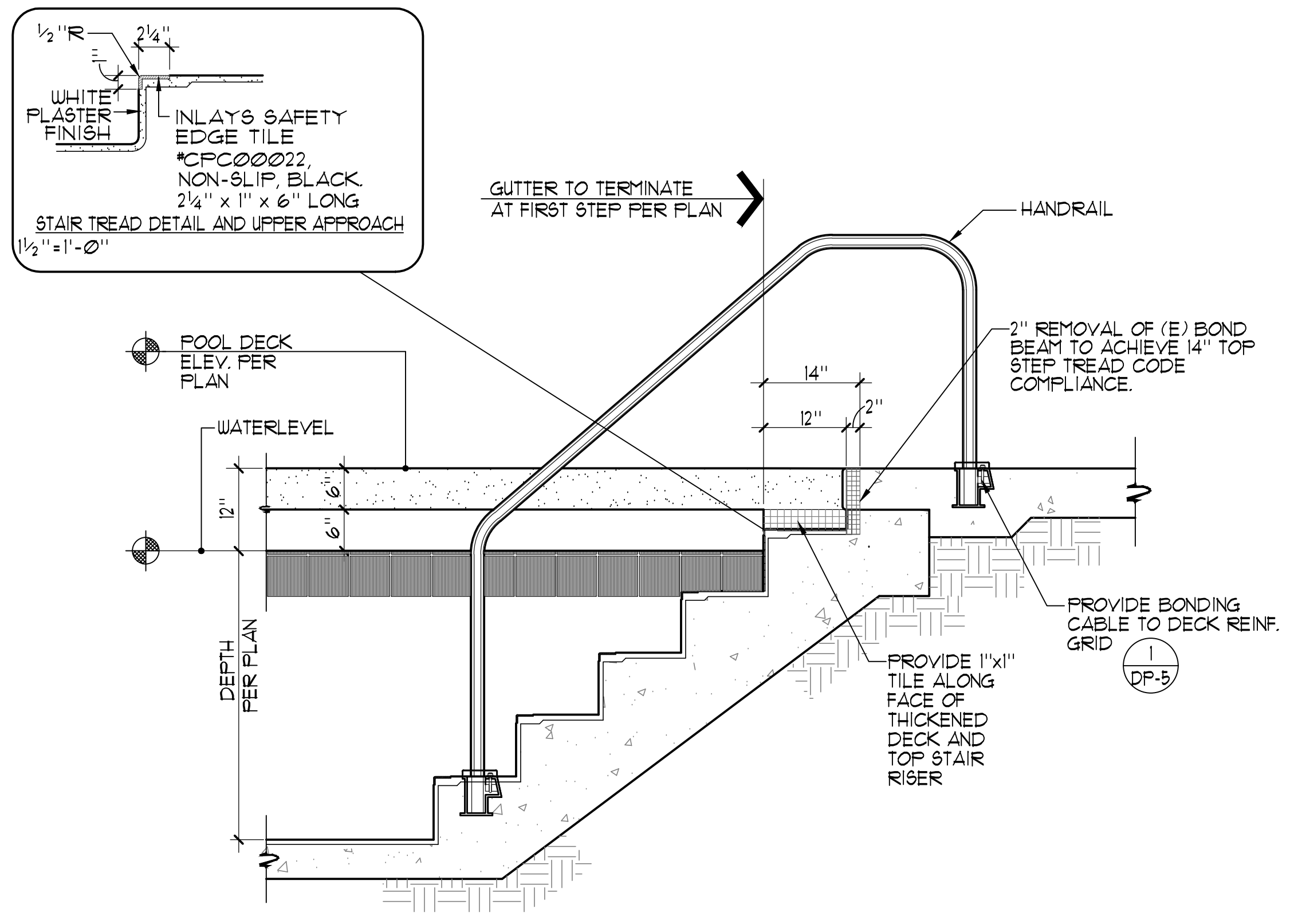
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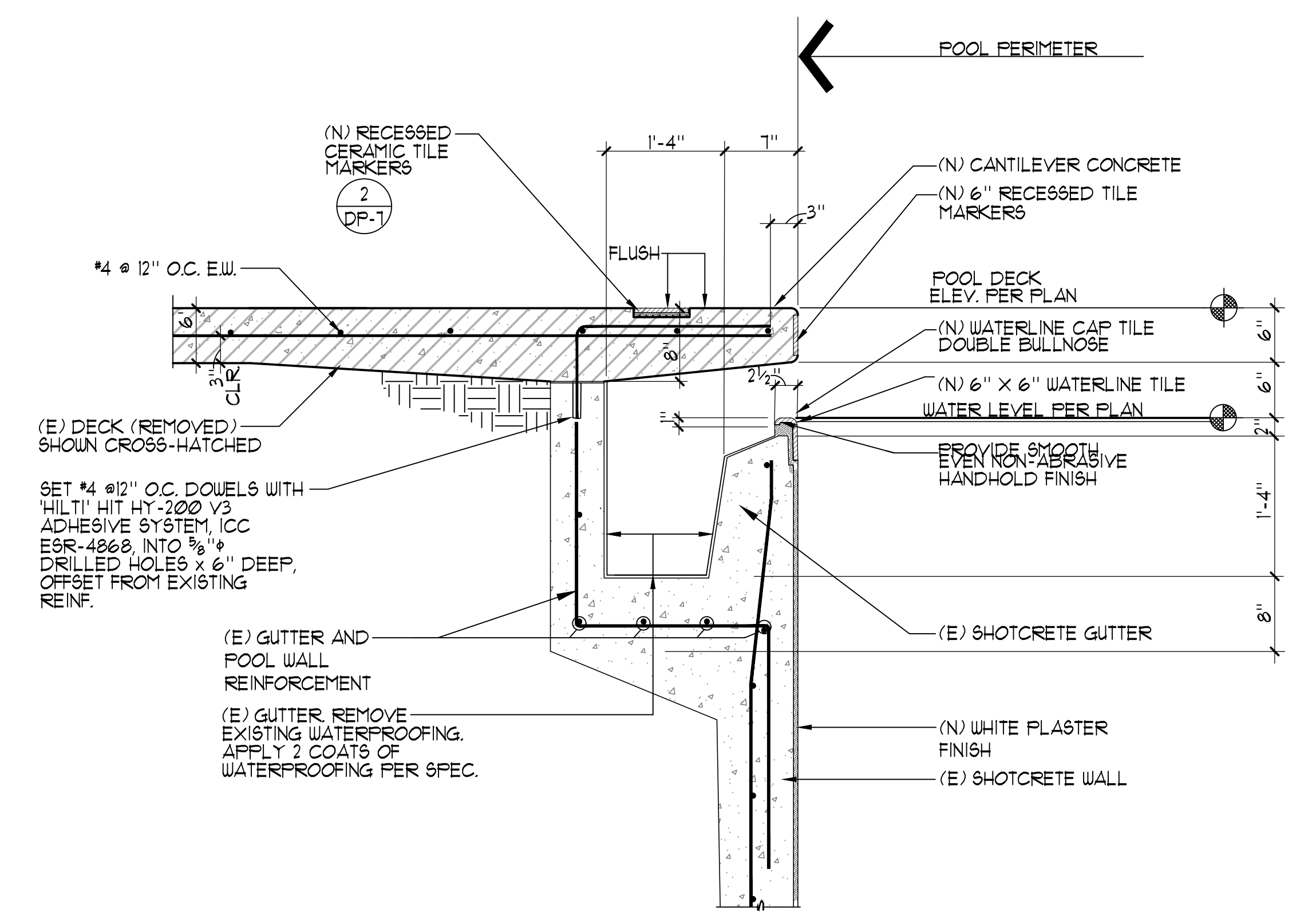
DRAWING NO.  
**DP-3**



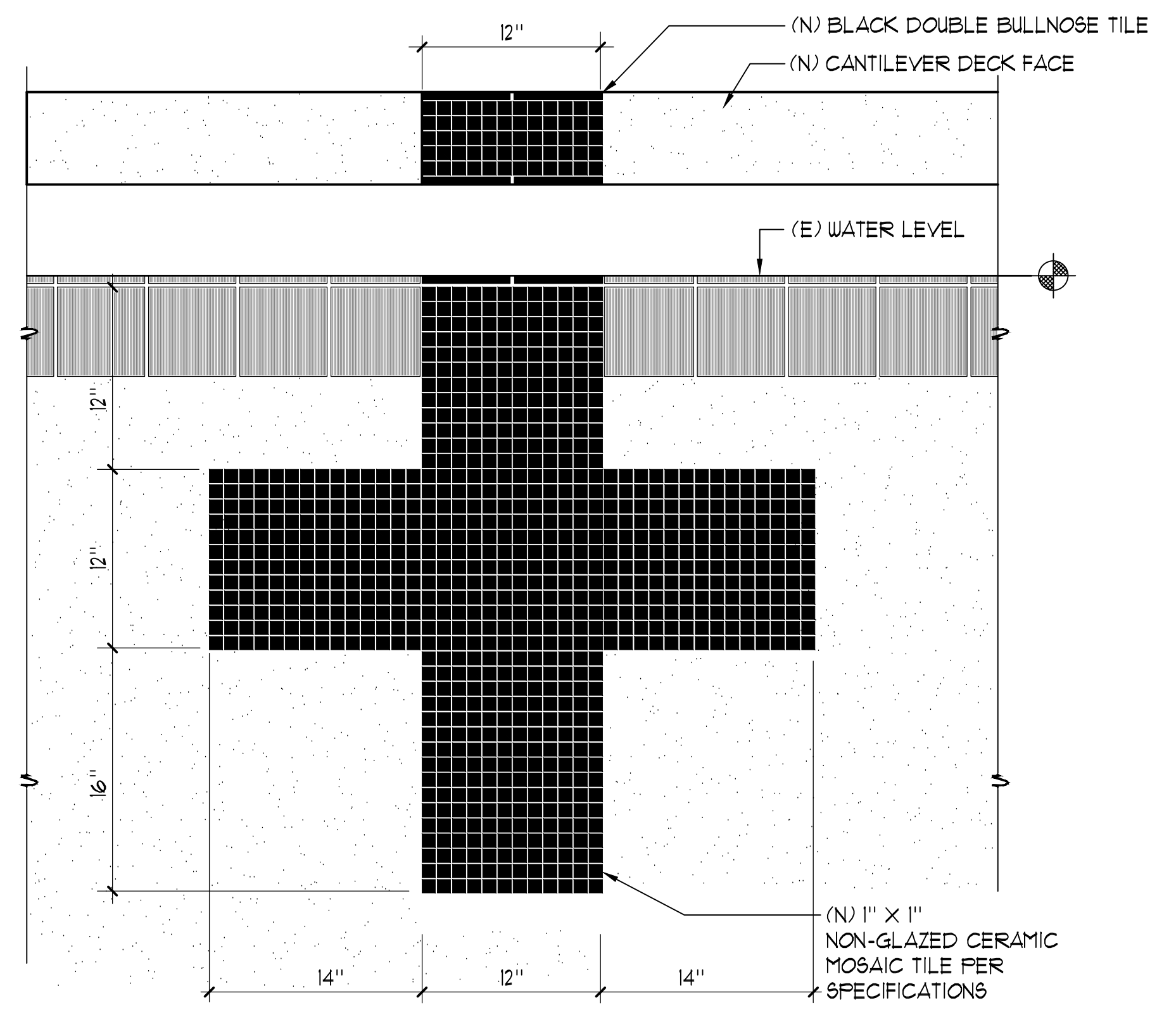
**3 MAIN DRAIN** 1/2" = 1'-0"



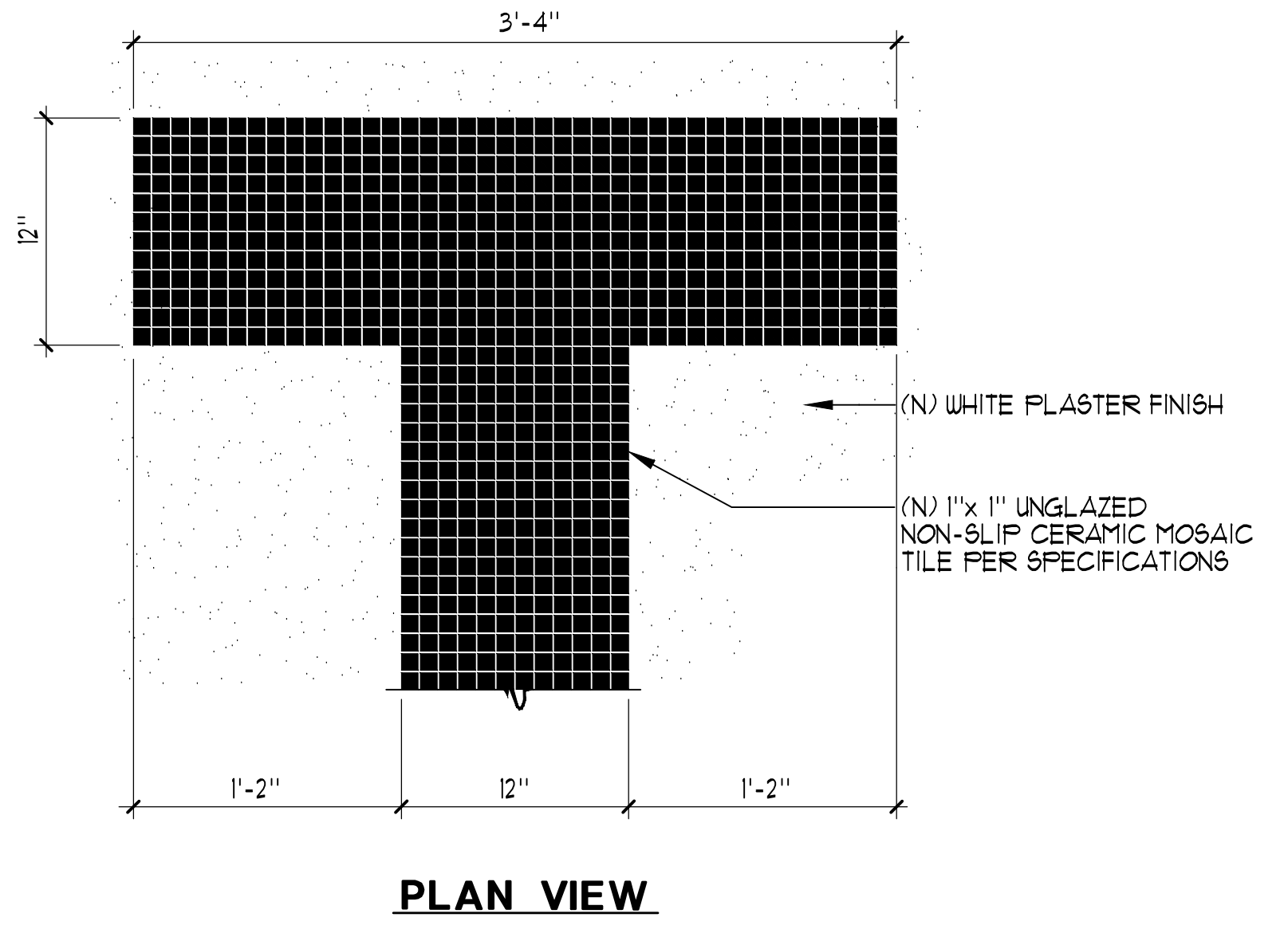
**2 HANDRAIL DETAIL** 3/4" = 1'-0"



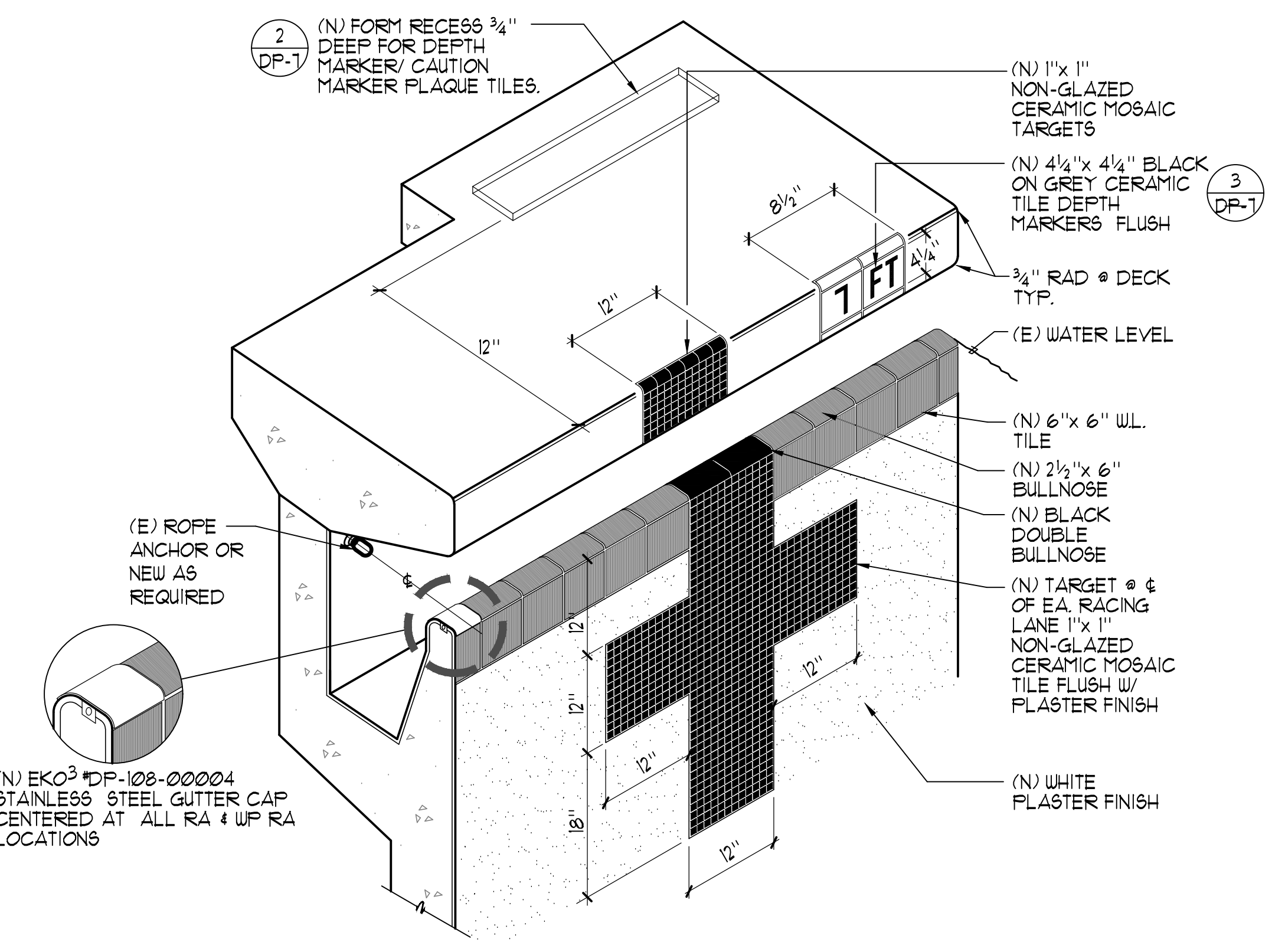
**1 TYPICAL GUTTER DETAIL** NO SCALE



**6 END WALL TARGETS** 1/2" = 1'-0"



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



**4 DEEP GUTTER PERSPECTIVE** NO SCALE

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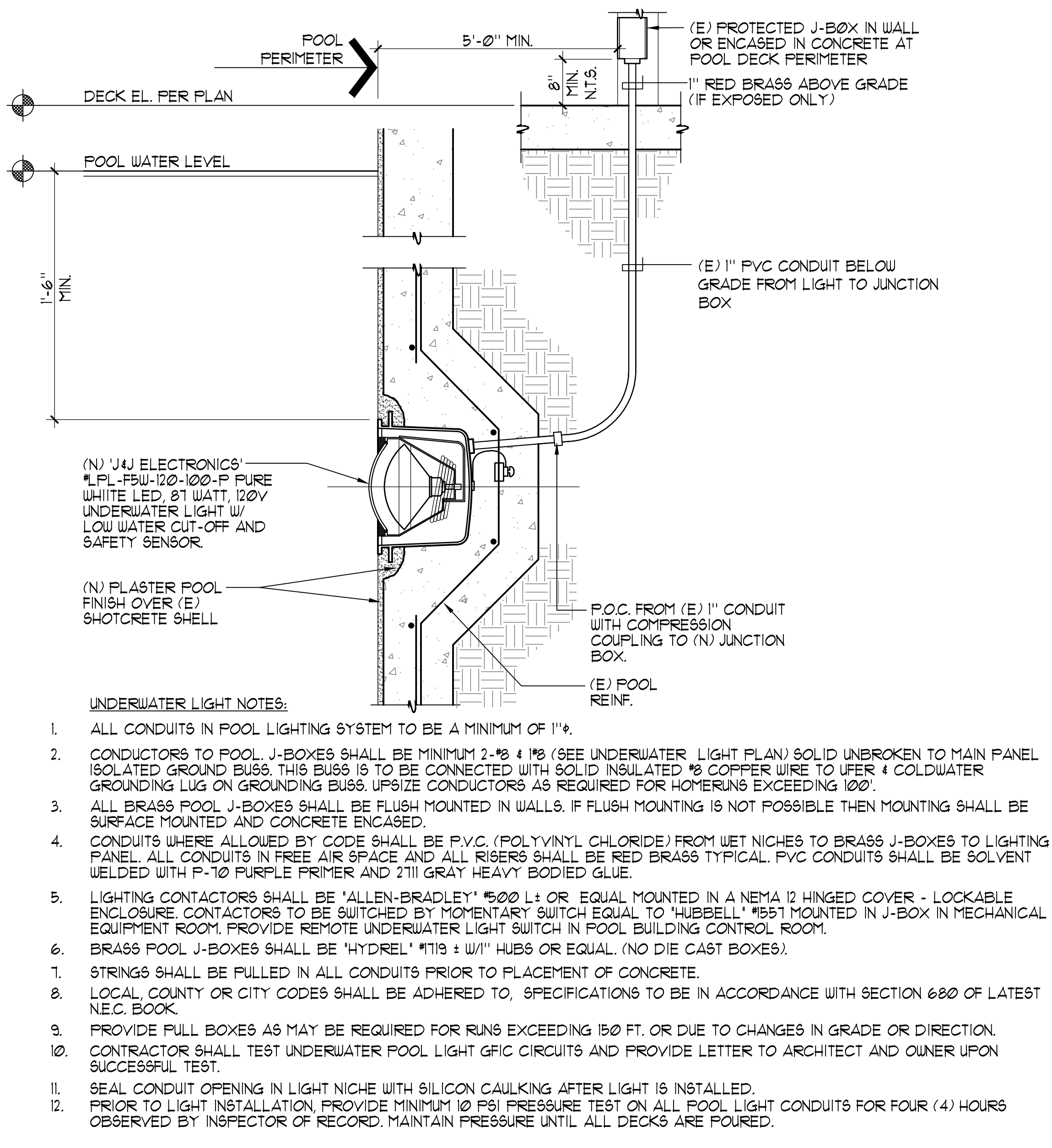
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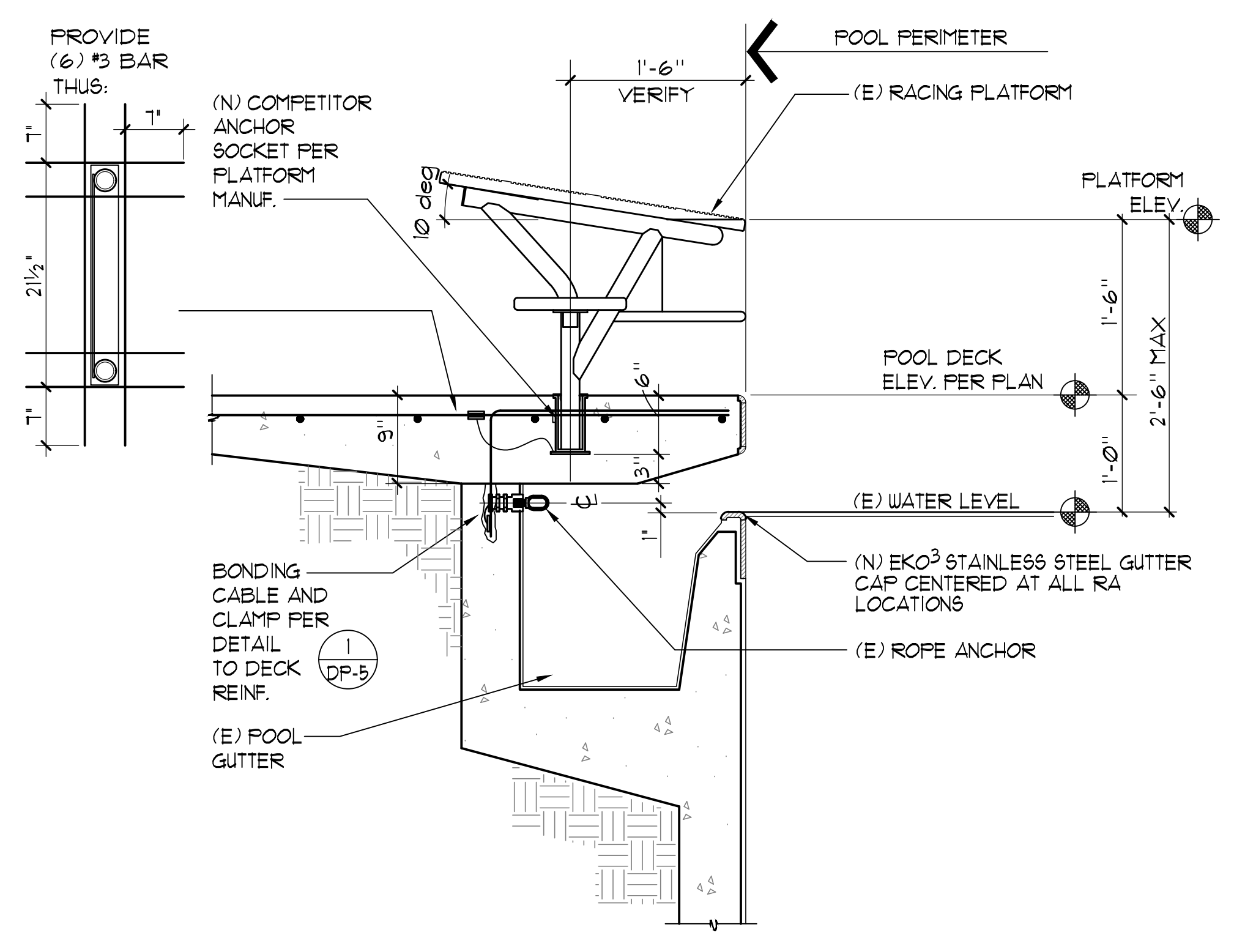
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DATE 10/16/23  
DRAWING NO.

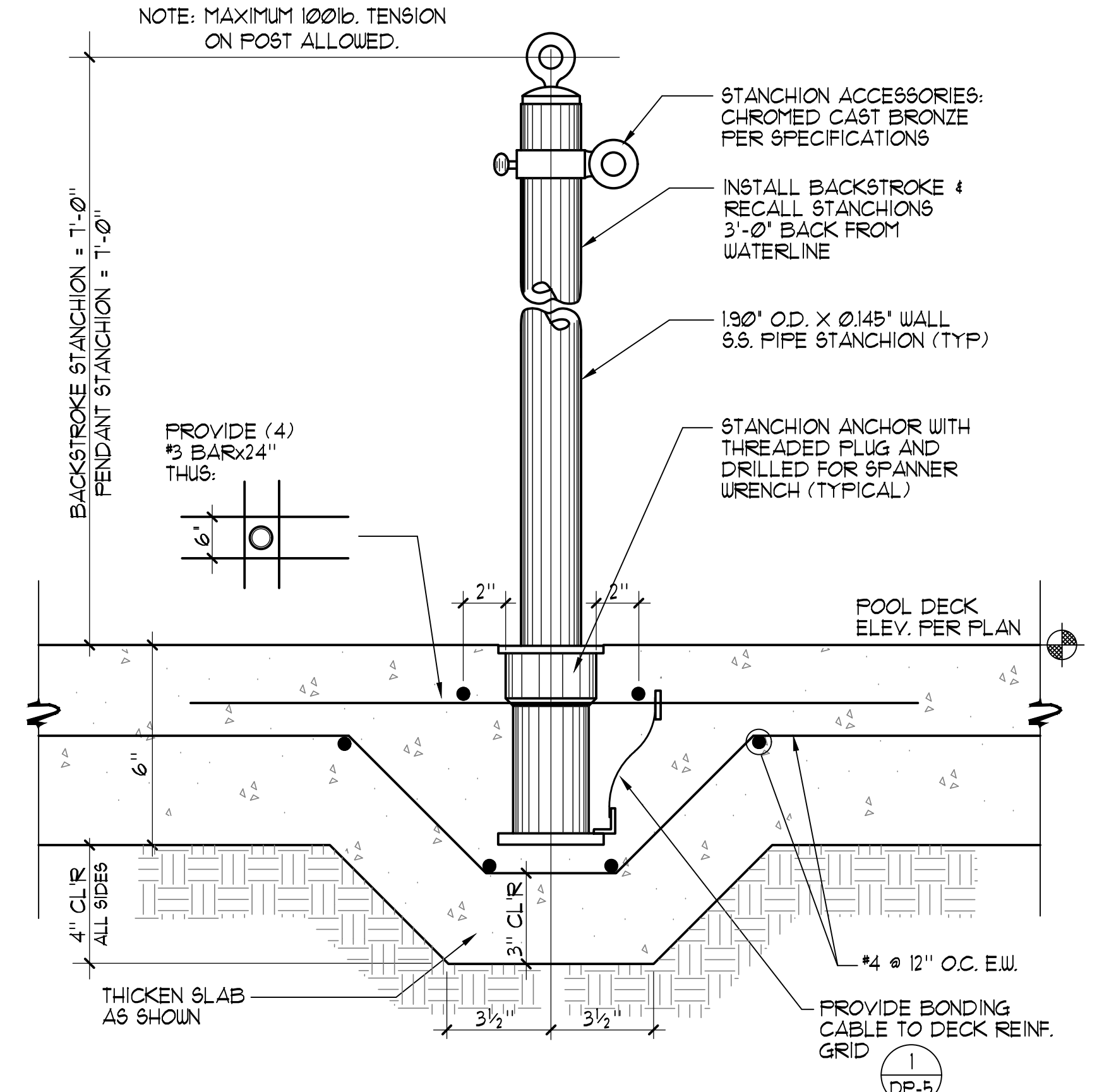
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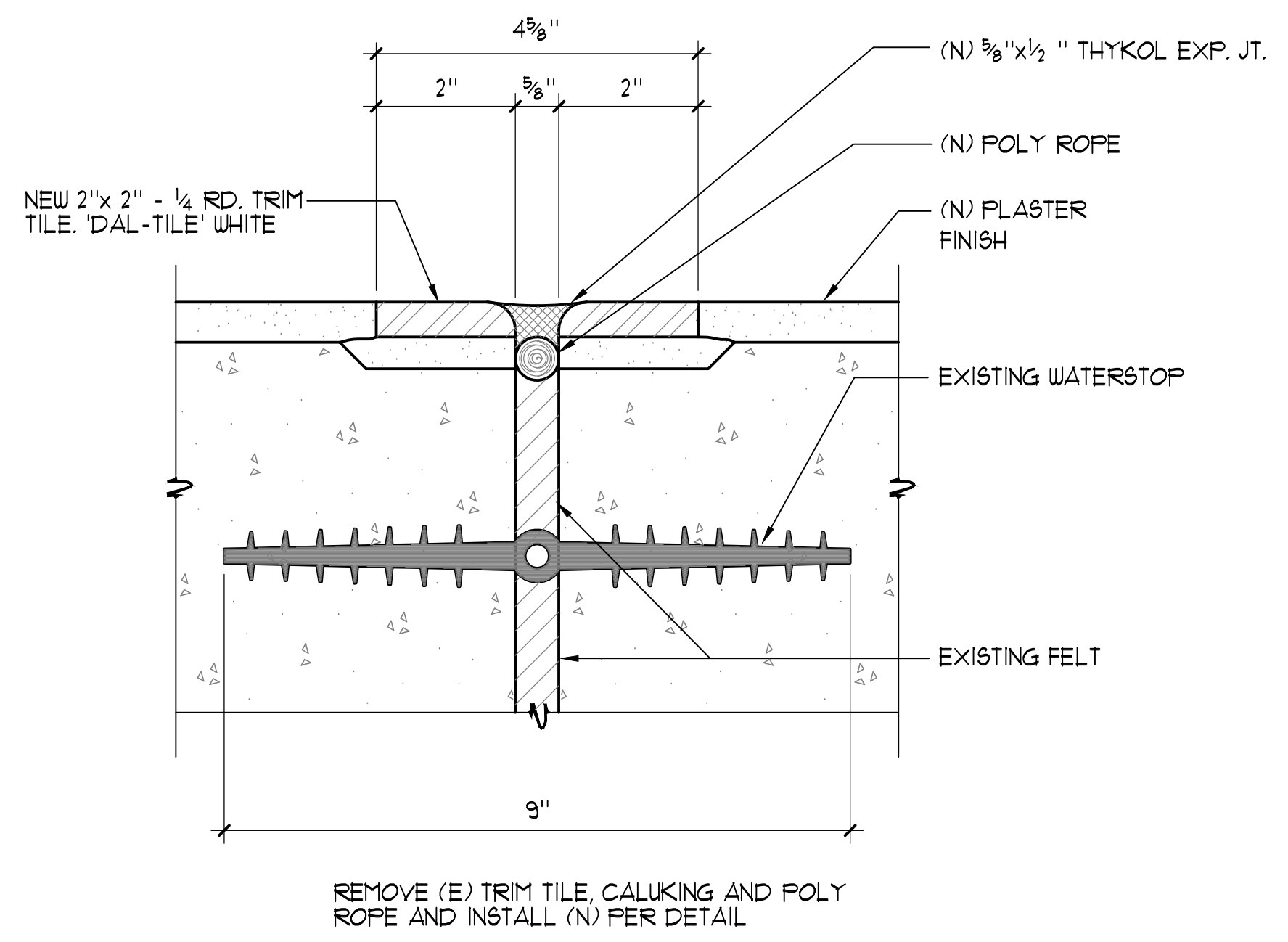
**1 UNDERWATER LED LIGHT** 1/2" = 1'-0"



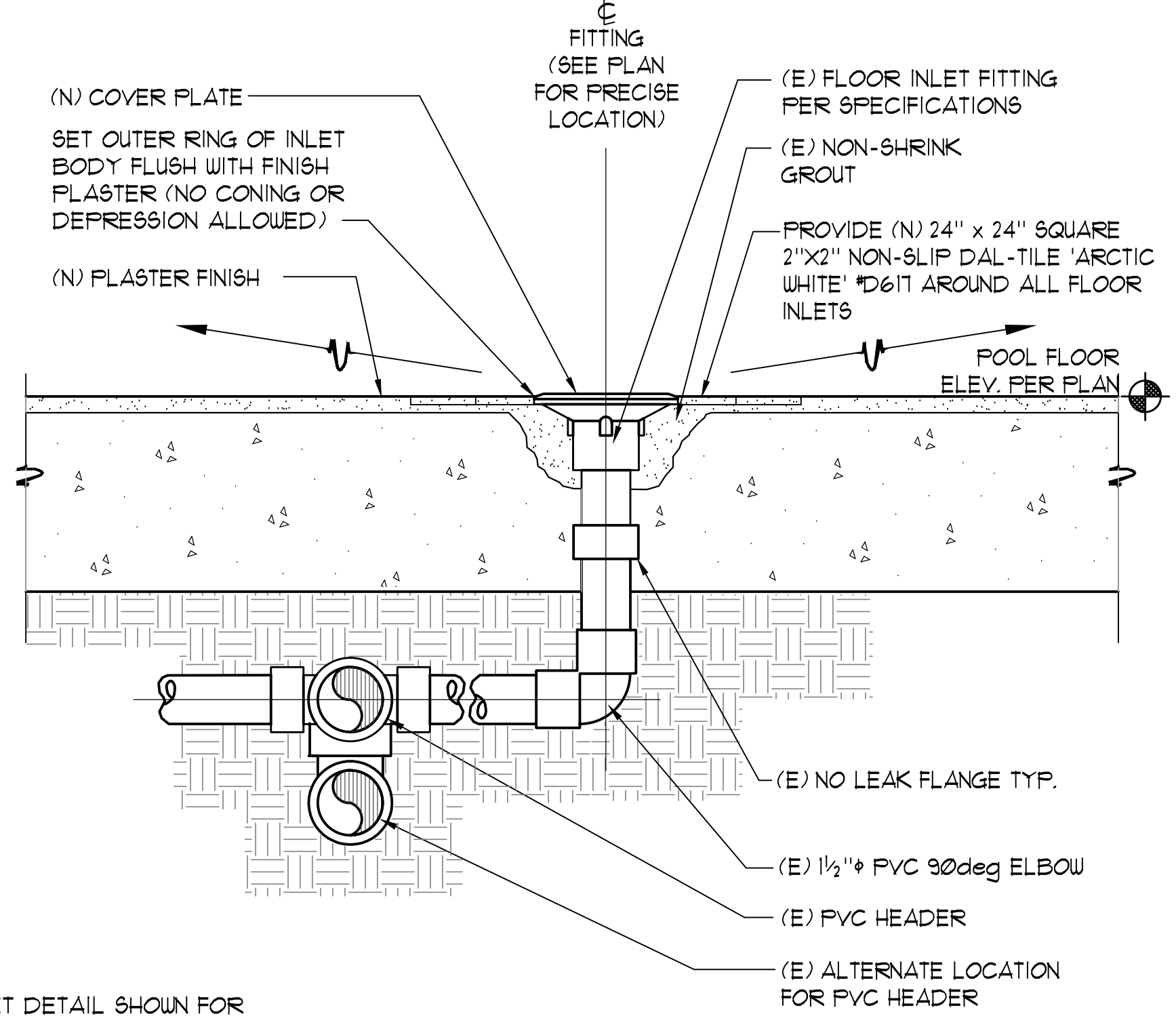
**2 RACING PLATFORM** 1" = 1'-0"



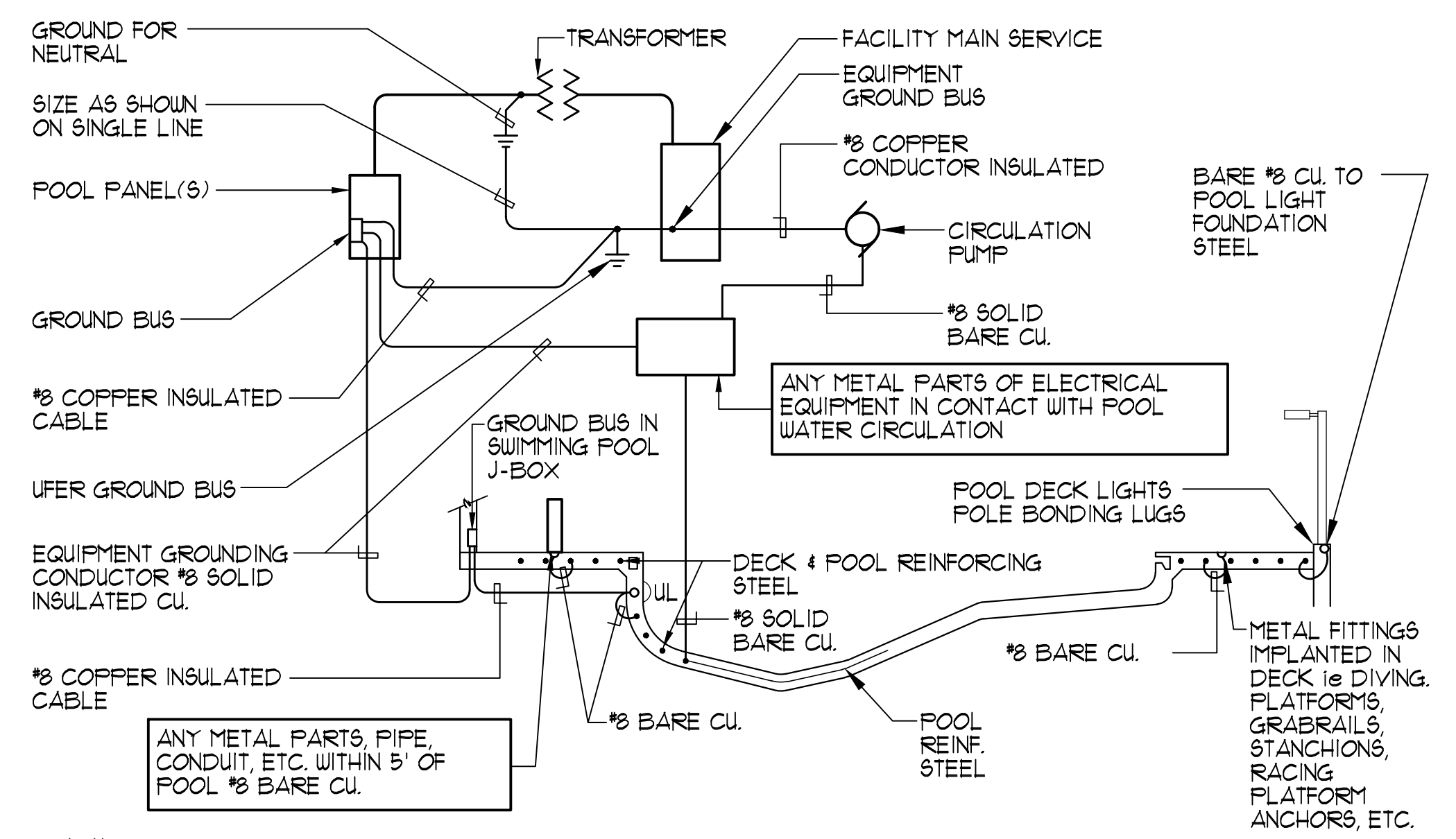
**3 STANCHION POST/ANCHOR** 3/4" = 1'-0"



**4 EXPANSION JOINT DETAIL** 1/2" = 1"

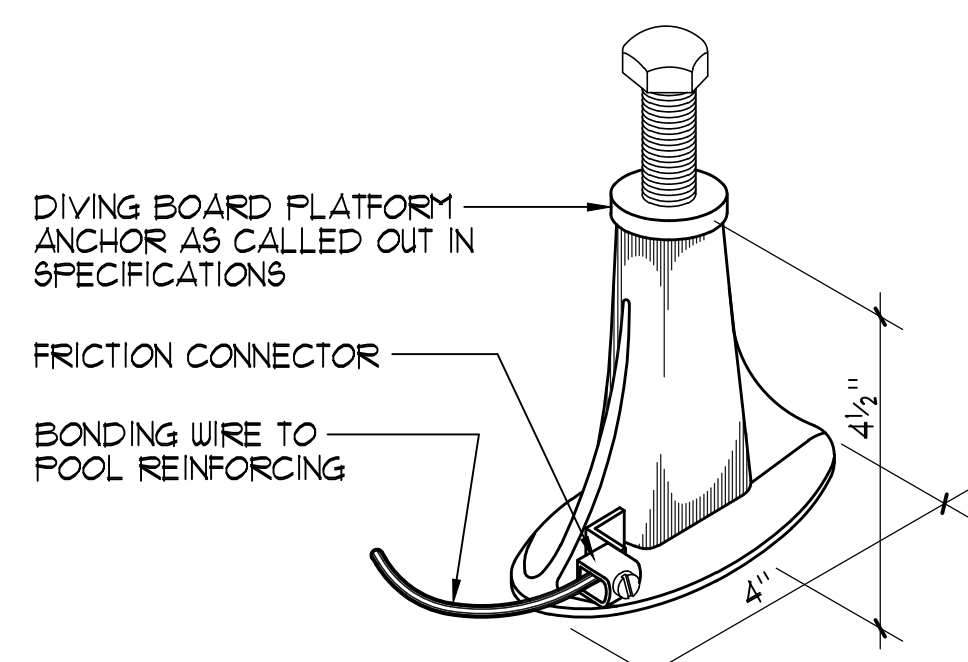


**5 FLOOR INLET** 3/4" = 1'-0"

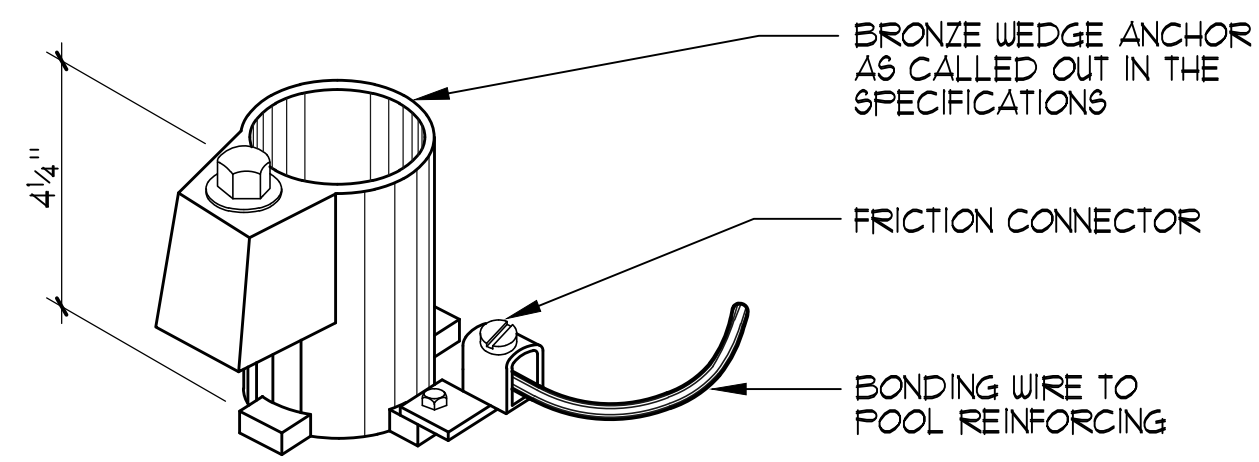


**6 TYPICAL POOL BONDING AND GROUND DETAIL** NO SCALE

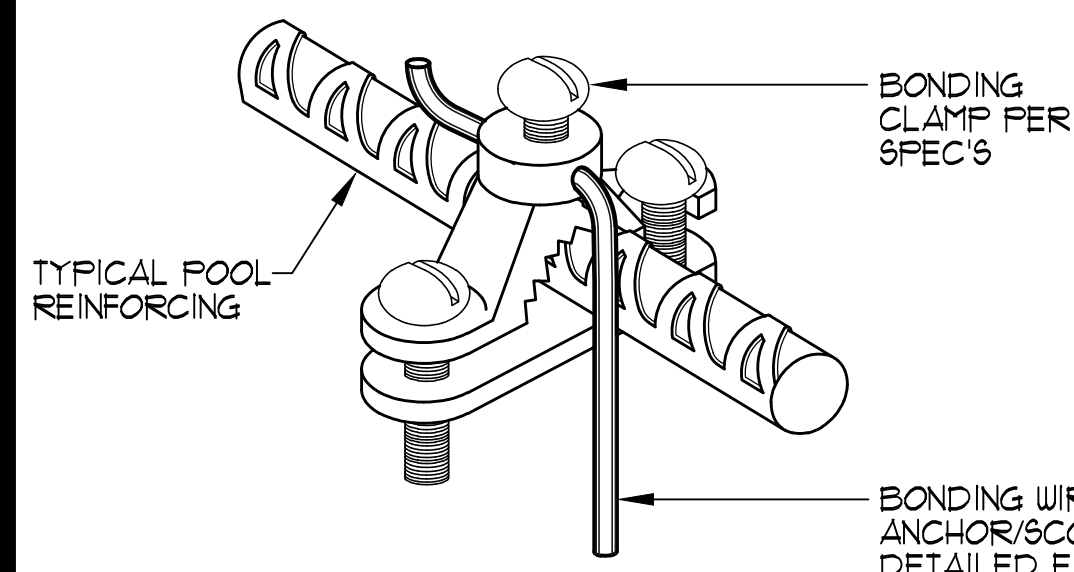
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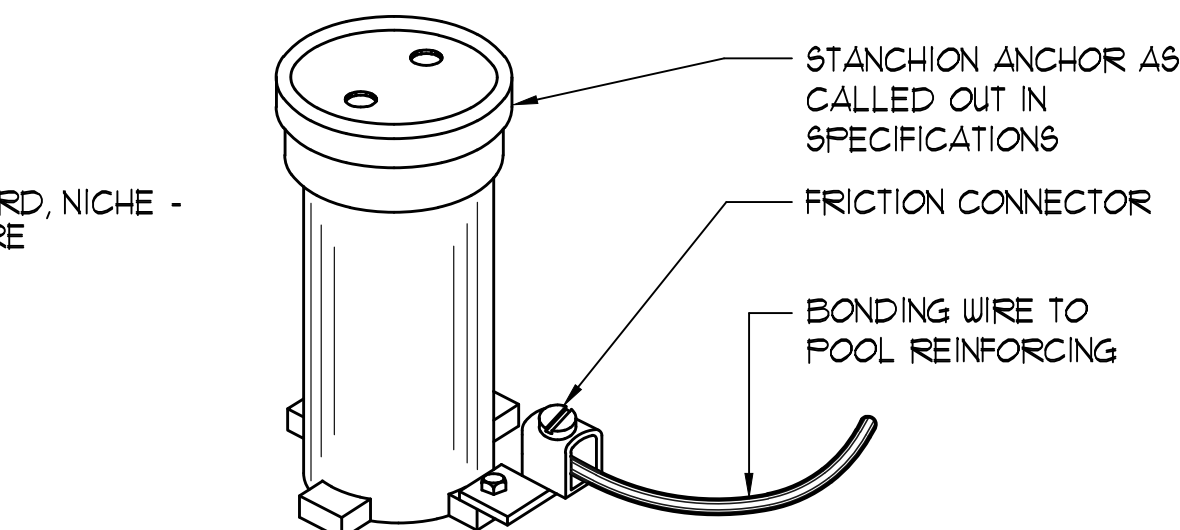
**A NICHE CONNECTOR**  
NO SCALE



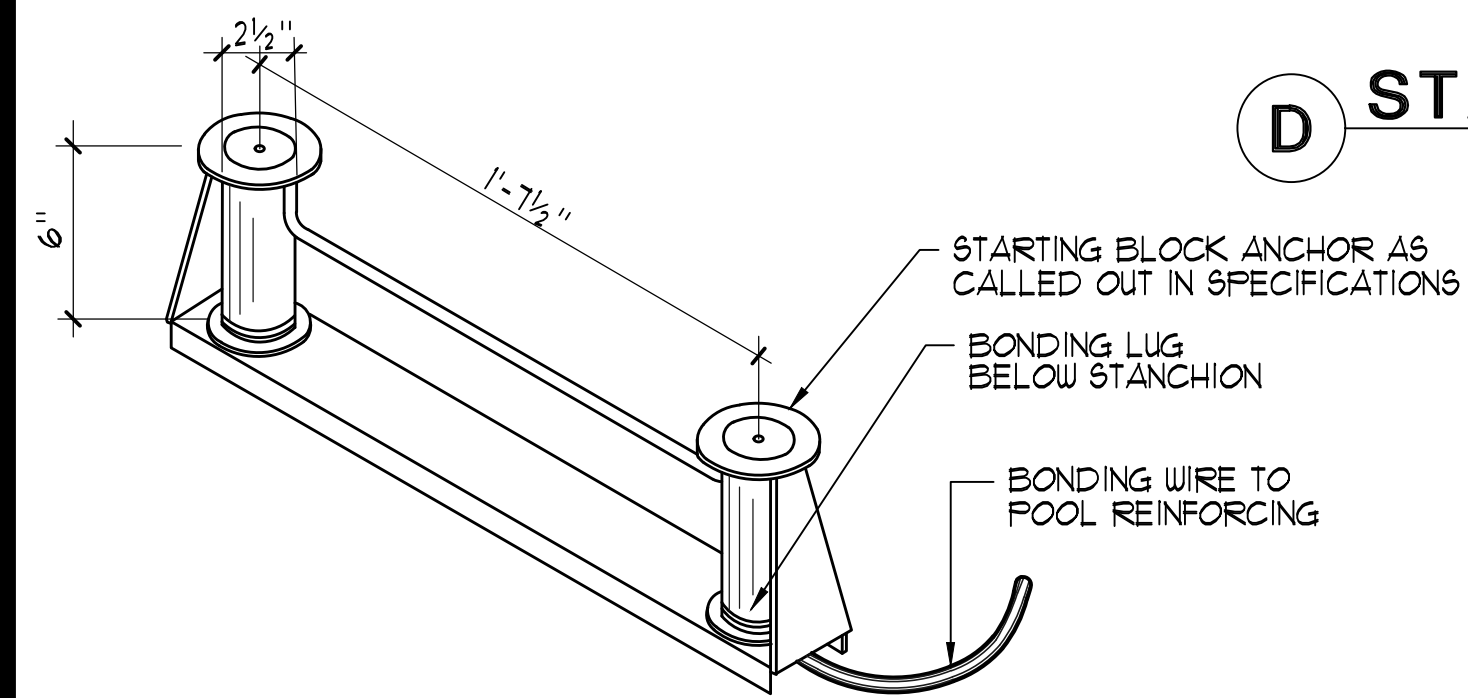
**B WEDGE ANCHOR**  
NO SCALE



**C BONDING CLAMP**  
NO SCALE

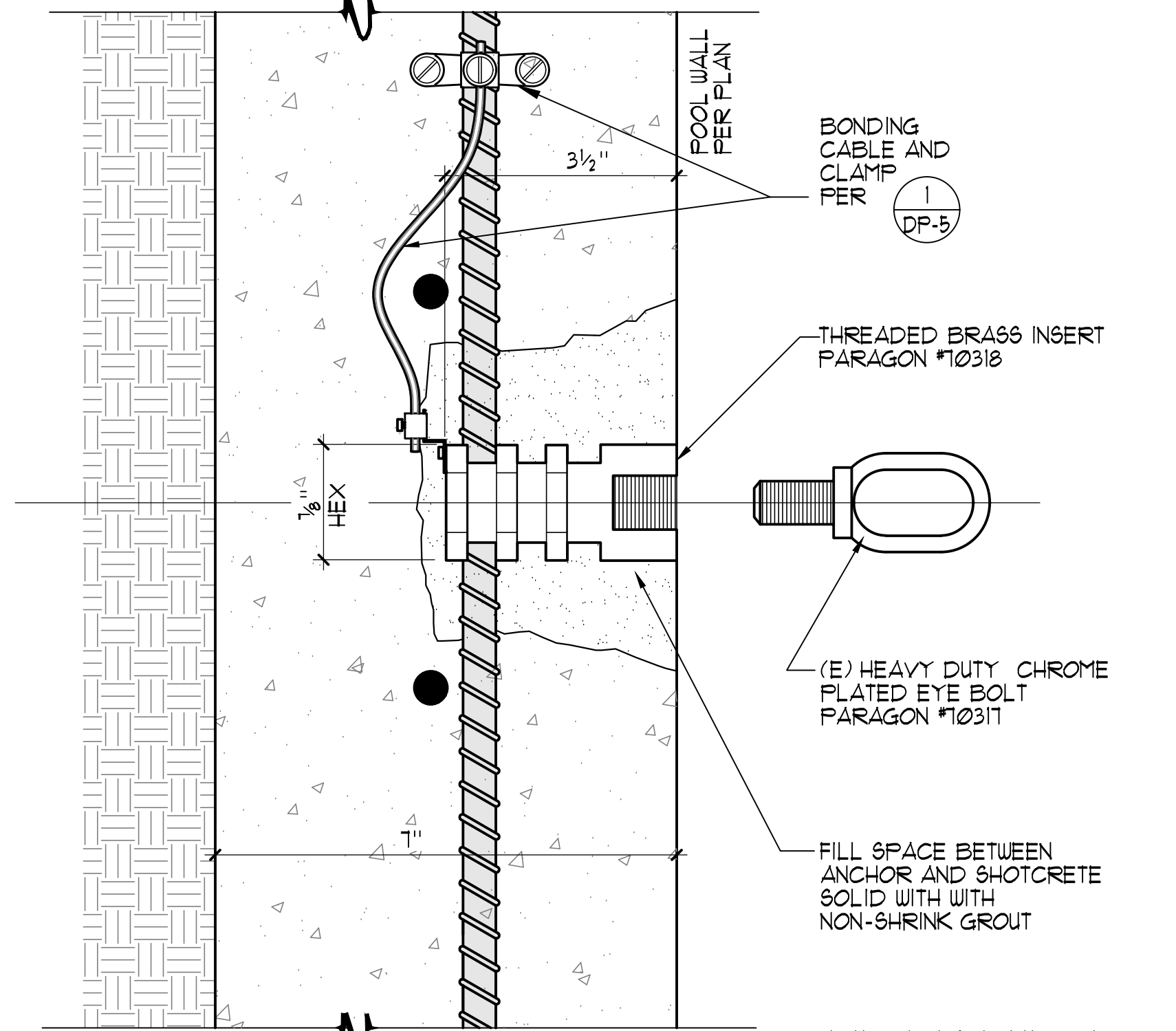


**D STANCHION ANCHOR**

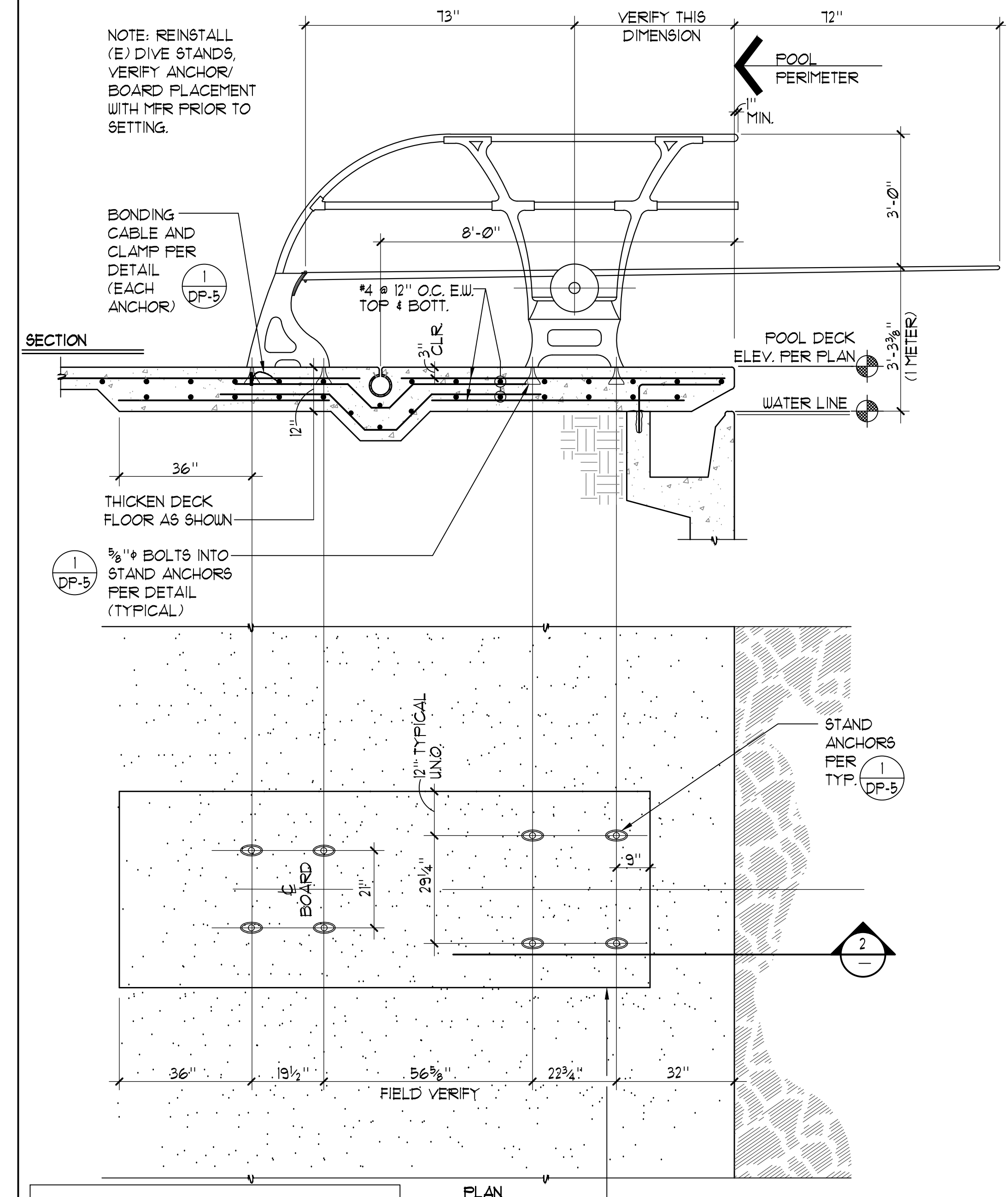


**E STARTING BLOCK ANCHOR**

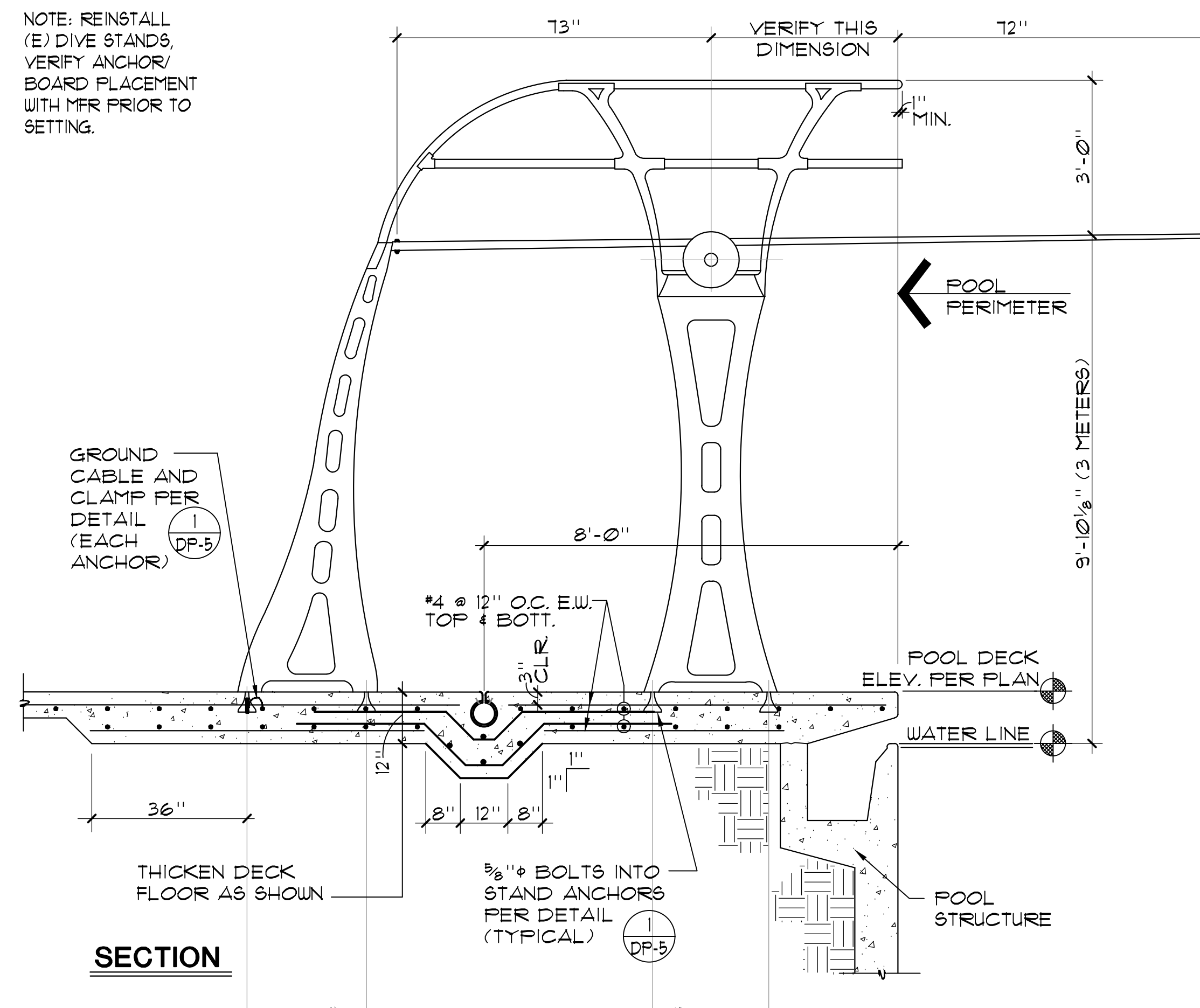
**1 BONDING DETAILS** NO SCALE



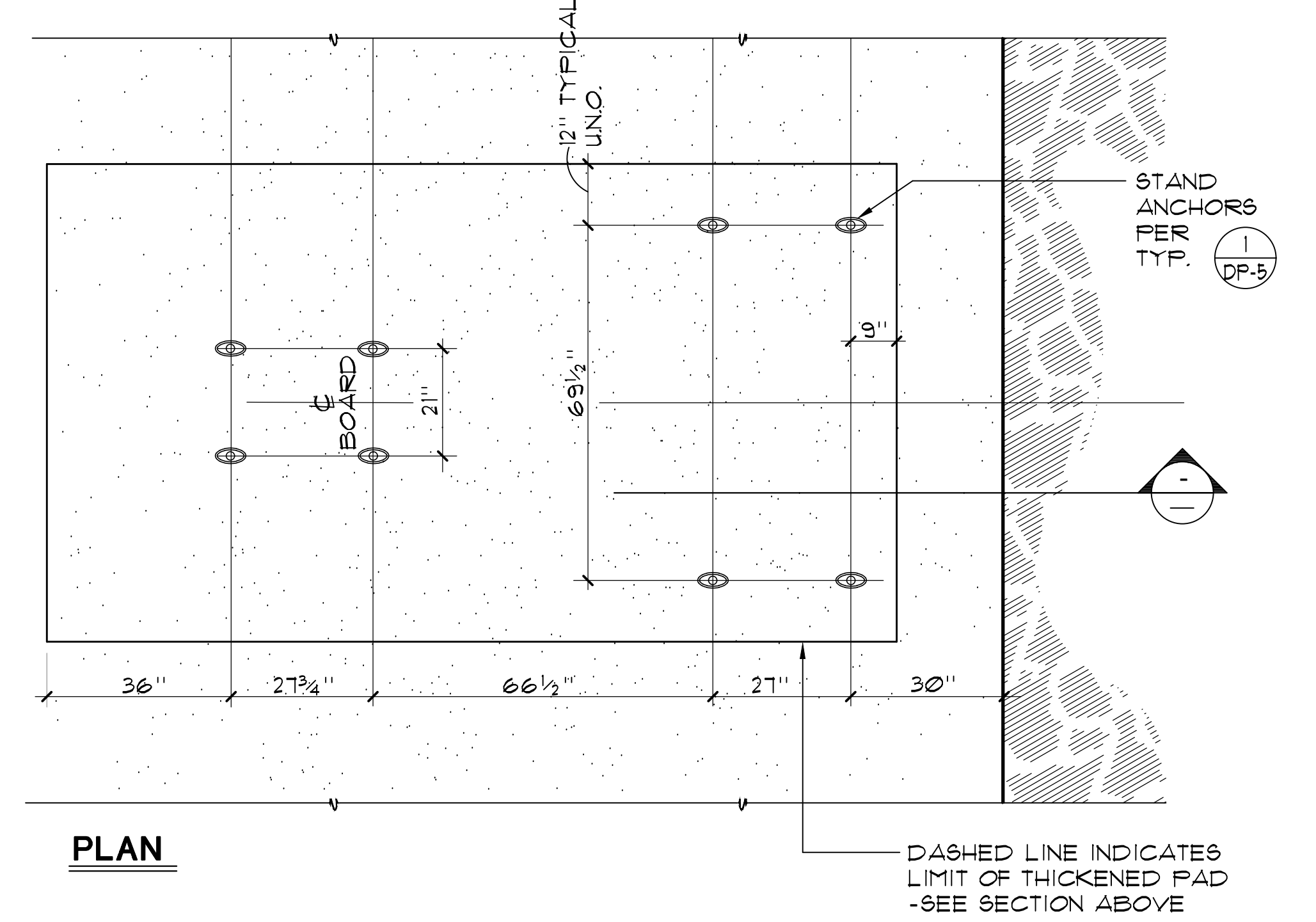
**2 HEAVY EYEBOLT ANCHOR** 1/2" = 1"



**3 1 METER DIVE STAND** 1/2" = 1'-0"



**5 3 METER DIVE STAND** 1/2" = 1'-0"



**4 DETAIL NOT USED**

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PROJECT INFORMATION  
**LAS POSITAS COLLEGE**  
**AQUATIC CENTER RENOVATION**  
3033 COLLIER CANYON ROAD  
LIVERMORE, CALIFORNIA 94551

REVISIONS

NO.	DATE	DESCRIPTION

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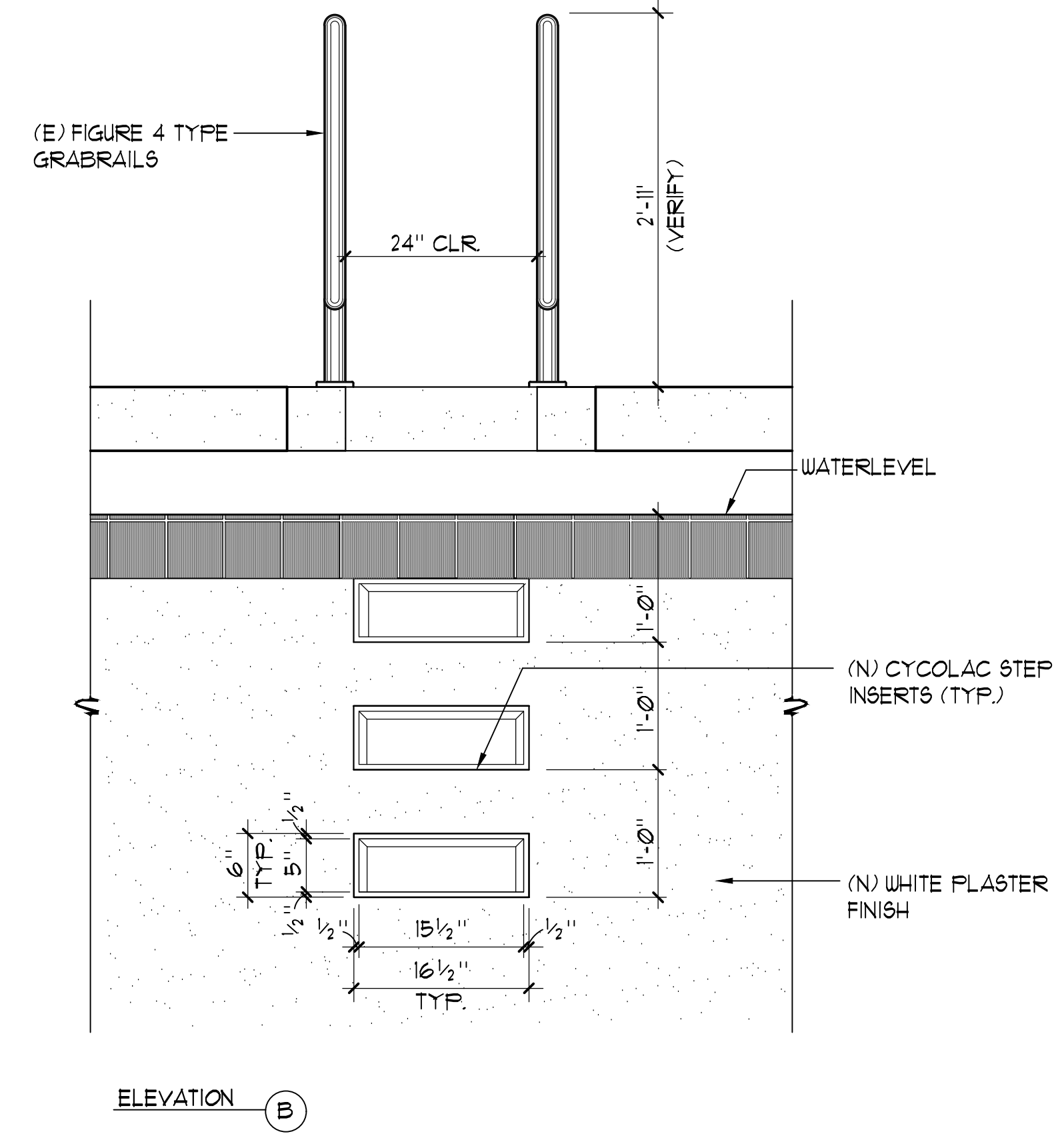
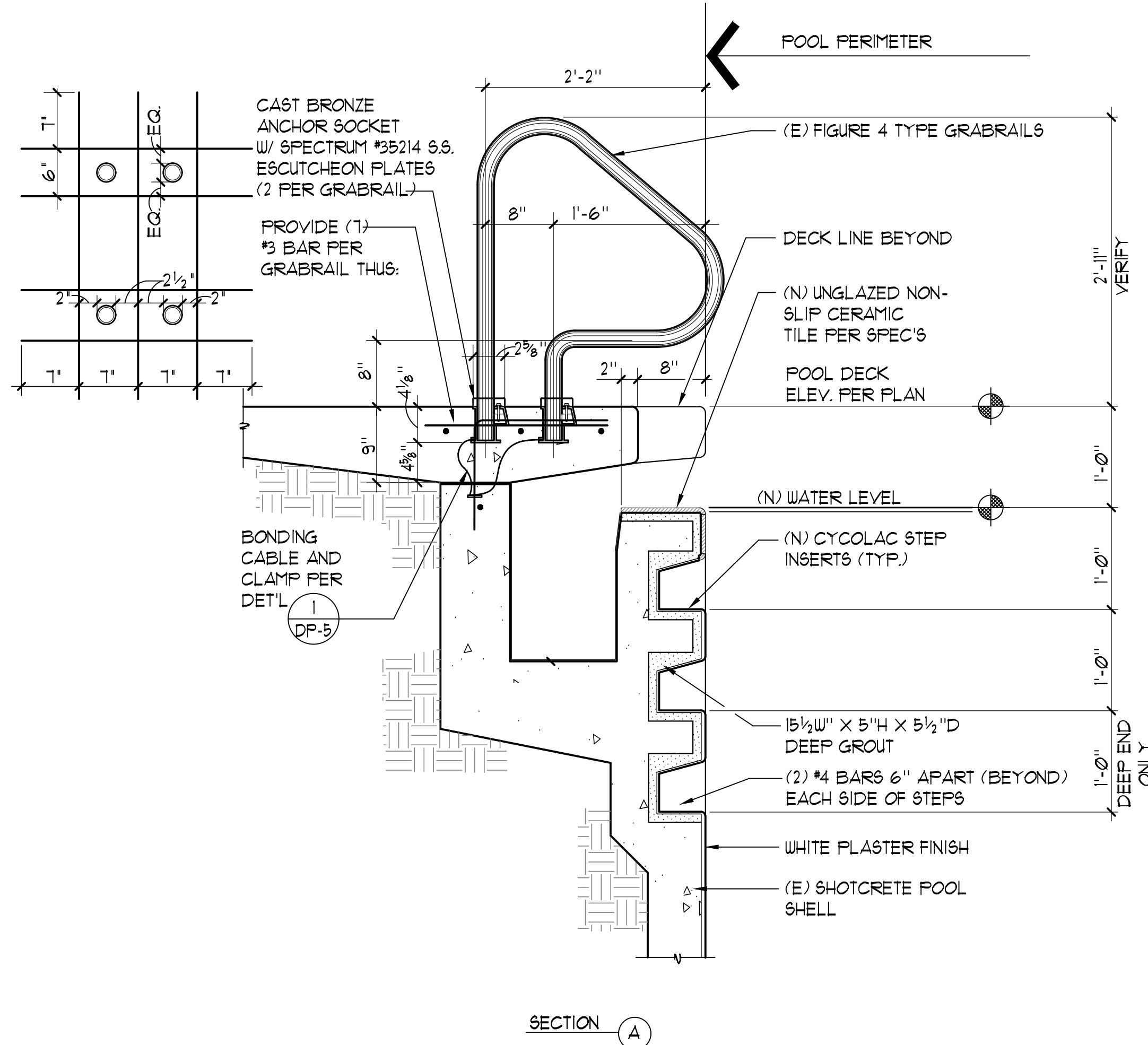
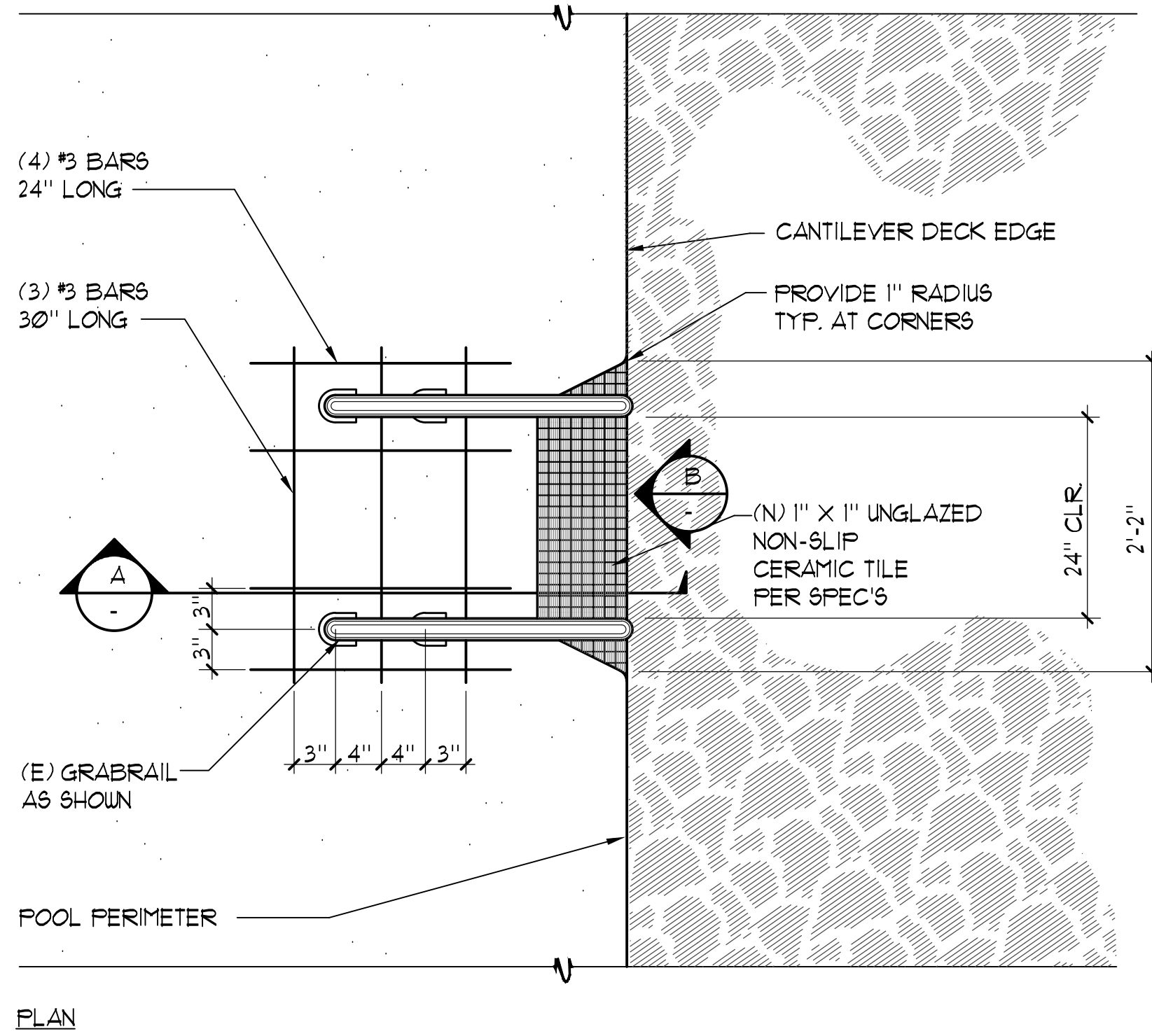
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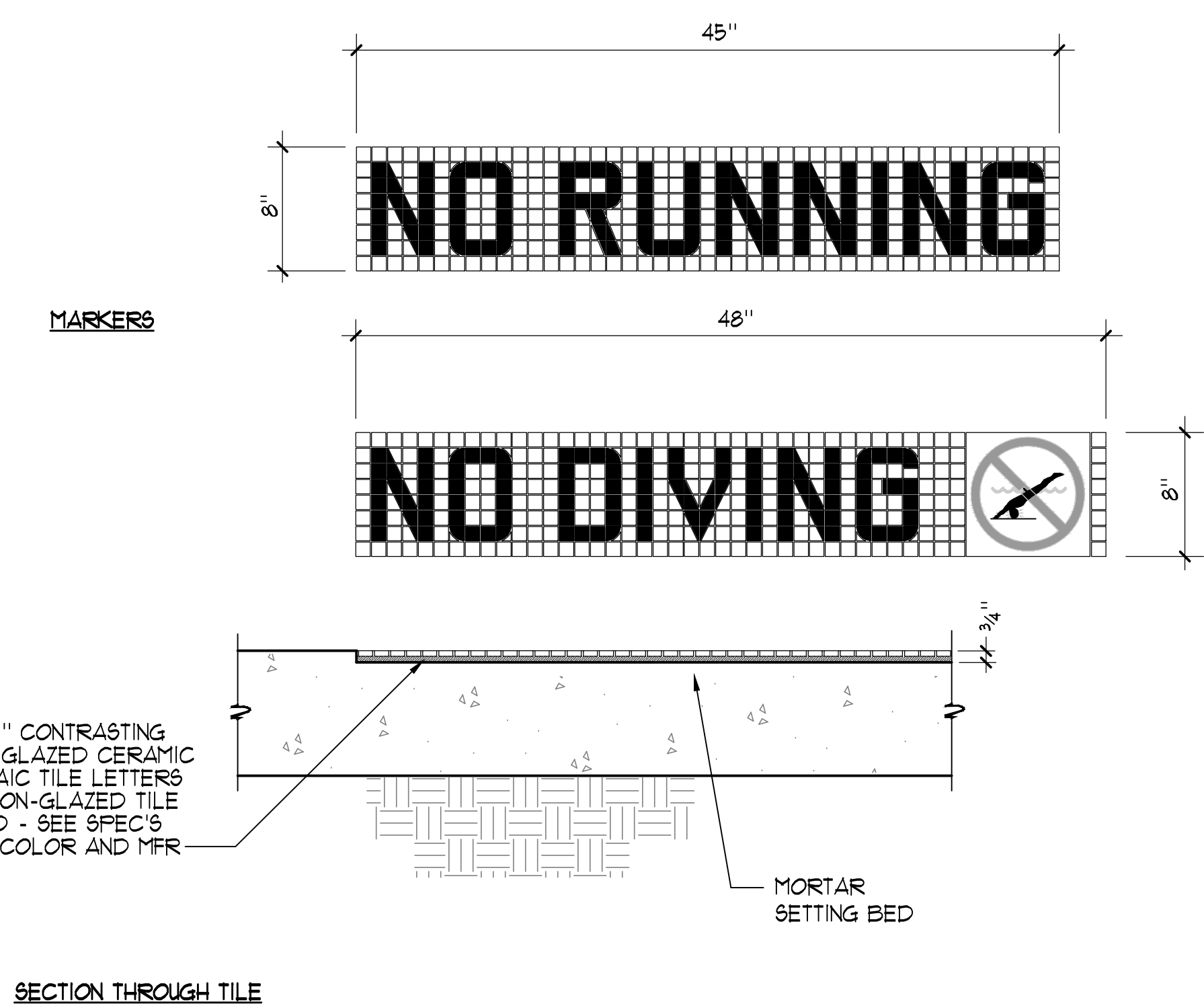
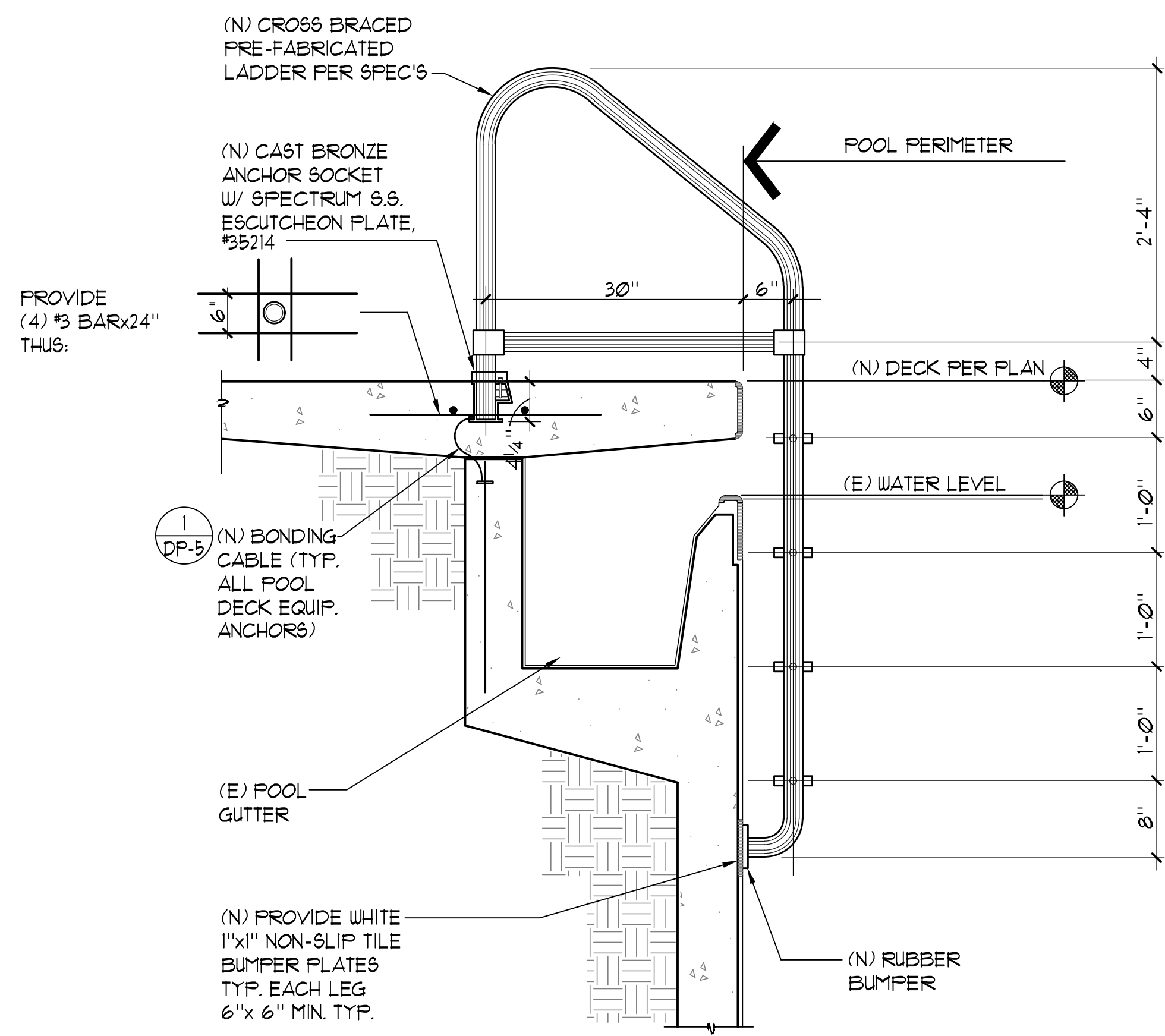
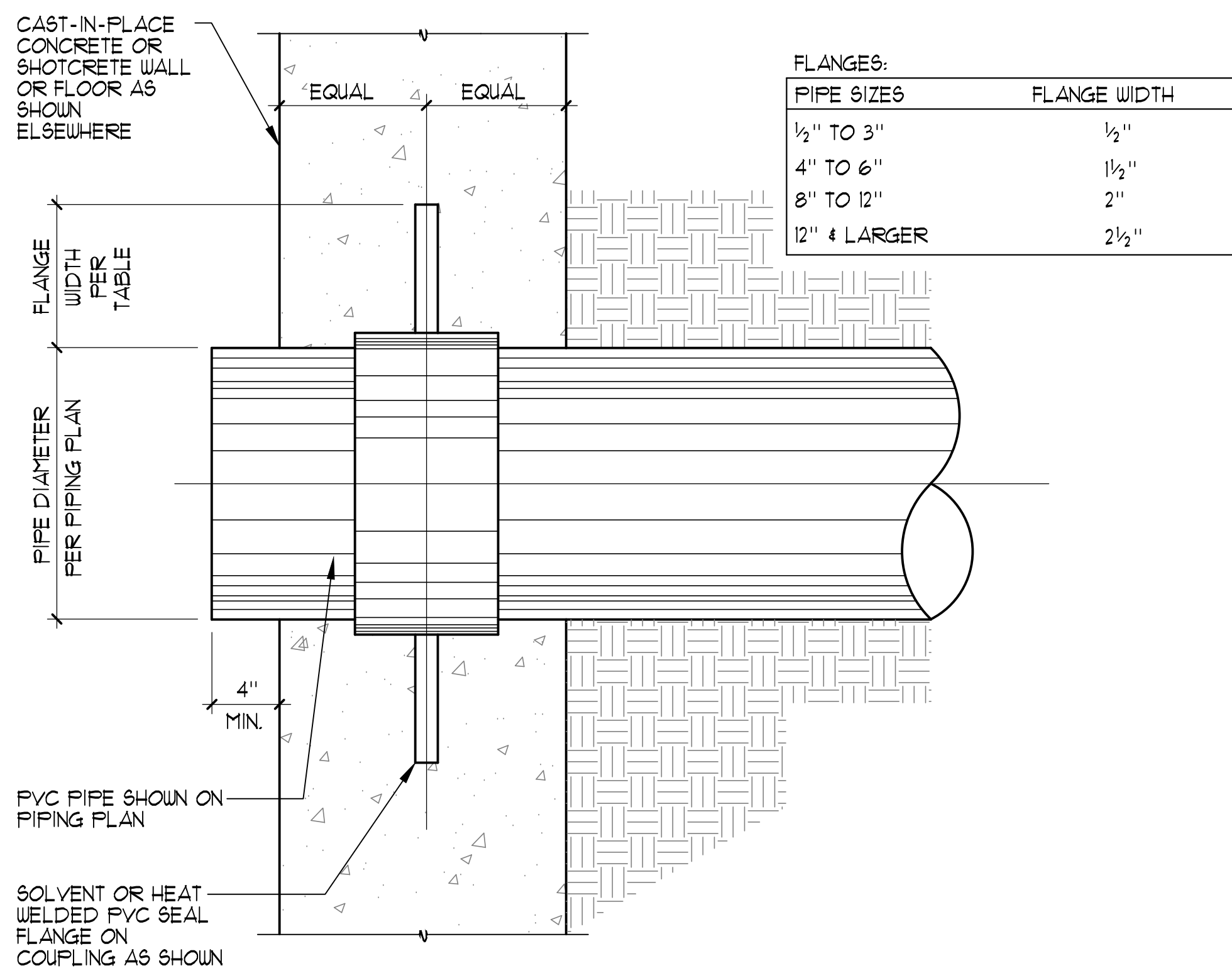
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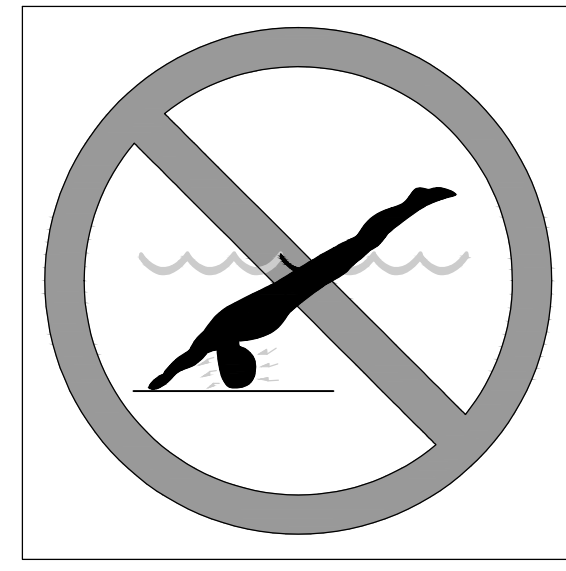
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**DP-6**



**GRABRAIL WITH STEPS 1" = 1'-0"**



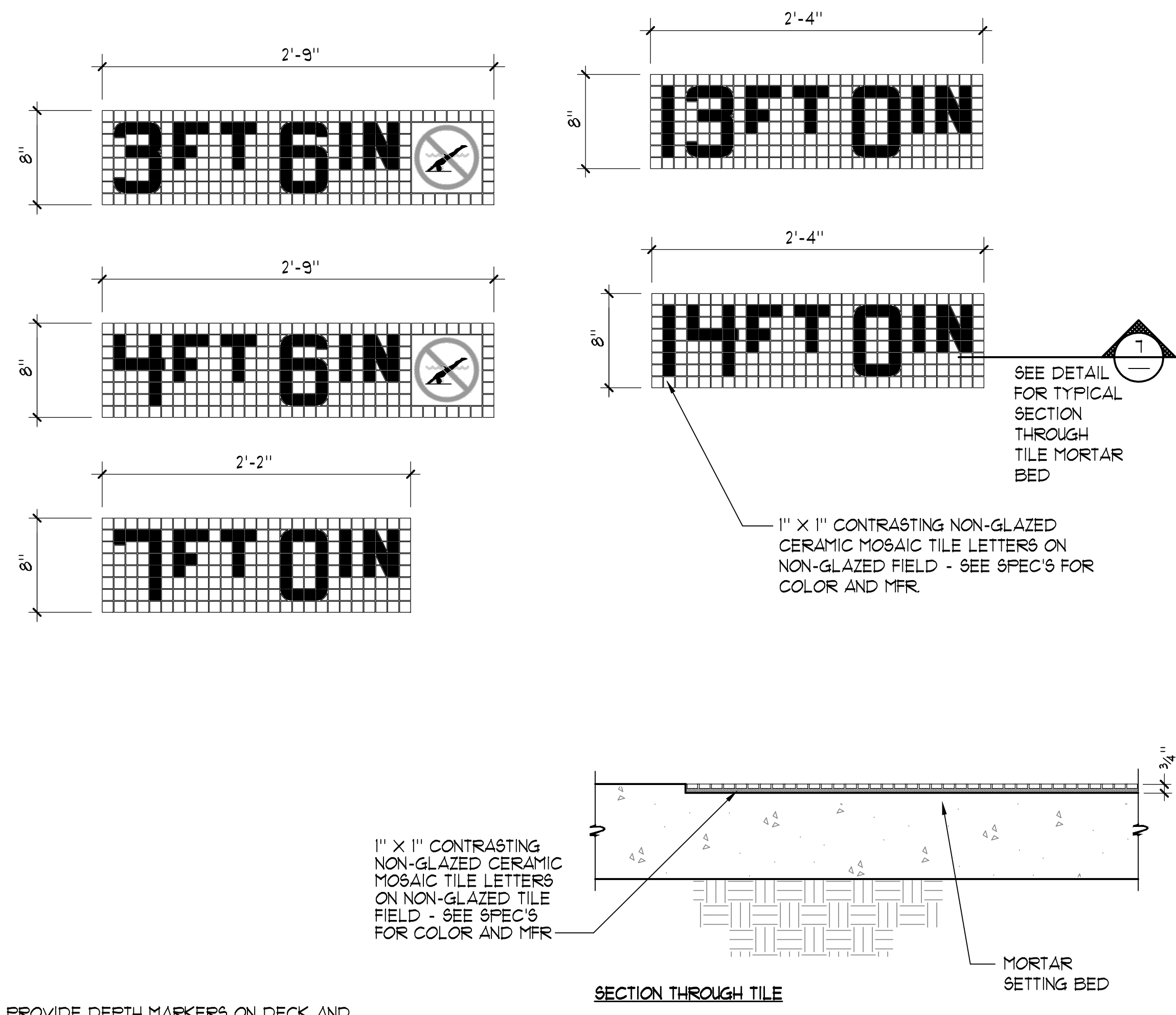




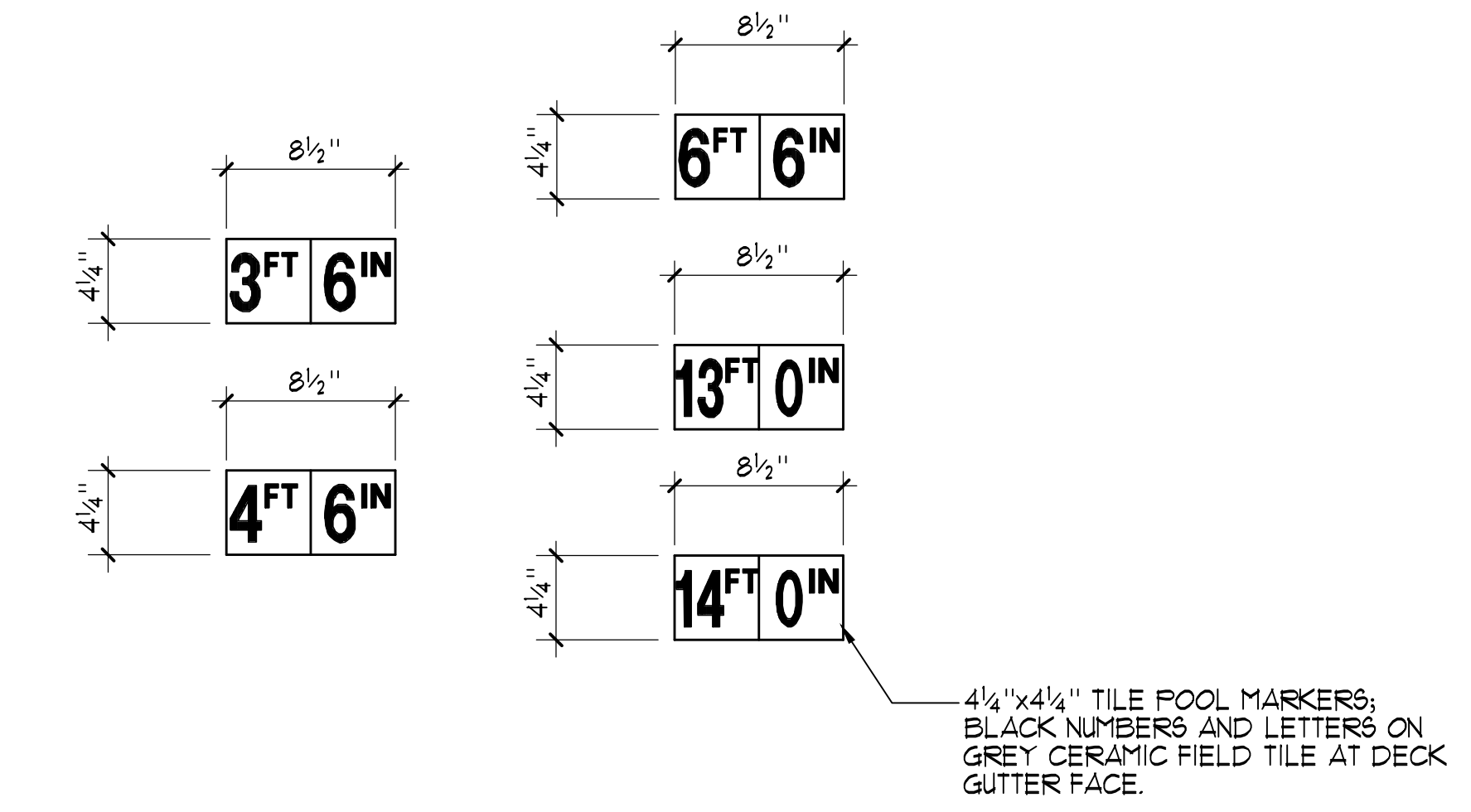
NOTE: PLACE IN DECK AT ALL DEPTH MARKER LOCATIONS 6'-0" AND SHALLOWER

**SILK SCREEN**

- 6"x6" INLAYS DOUBLE GLAZED WHITE SLIP RESISTANT TILE TYP. OF (1) PIECE OVER 1/4" MORTAR BED WITH 1/8" GROUT JOINTS. SEE PLAN FOR LOCATION.
- 1" WIDE RED CIRCLE WITH 1" WIDE RED DIAGONAL LINE.
- 1/8" BLUE WATER.
- 1/16" RED TICKS ABOUT THE HEAD.
- TAN COLOR BODY WITH BLACK OUTLINE, HAIR AND TRUNKS.
- 1/8" BLACK POOL FLOOR.



PROVIDE DEPTH MARKERS ON DECK AND FRONT CANTILEVER DECK FACE AT ALL DEPTH MARKER LOCATIONS. DEPTH MARKERS SHALL BE SLIP RESISTANT ON POOL DECK.

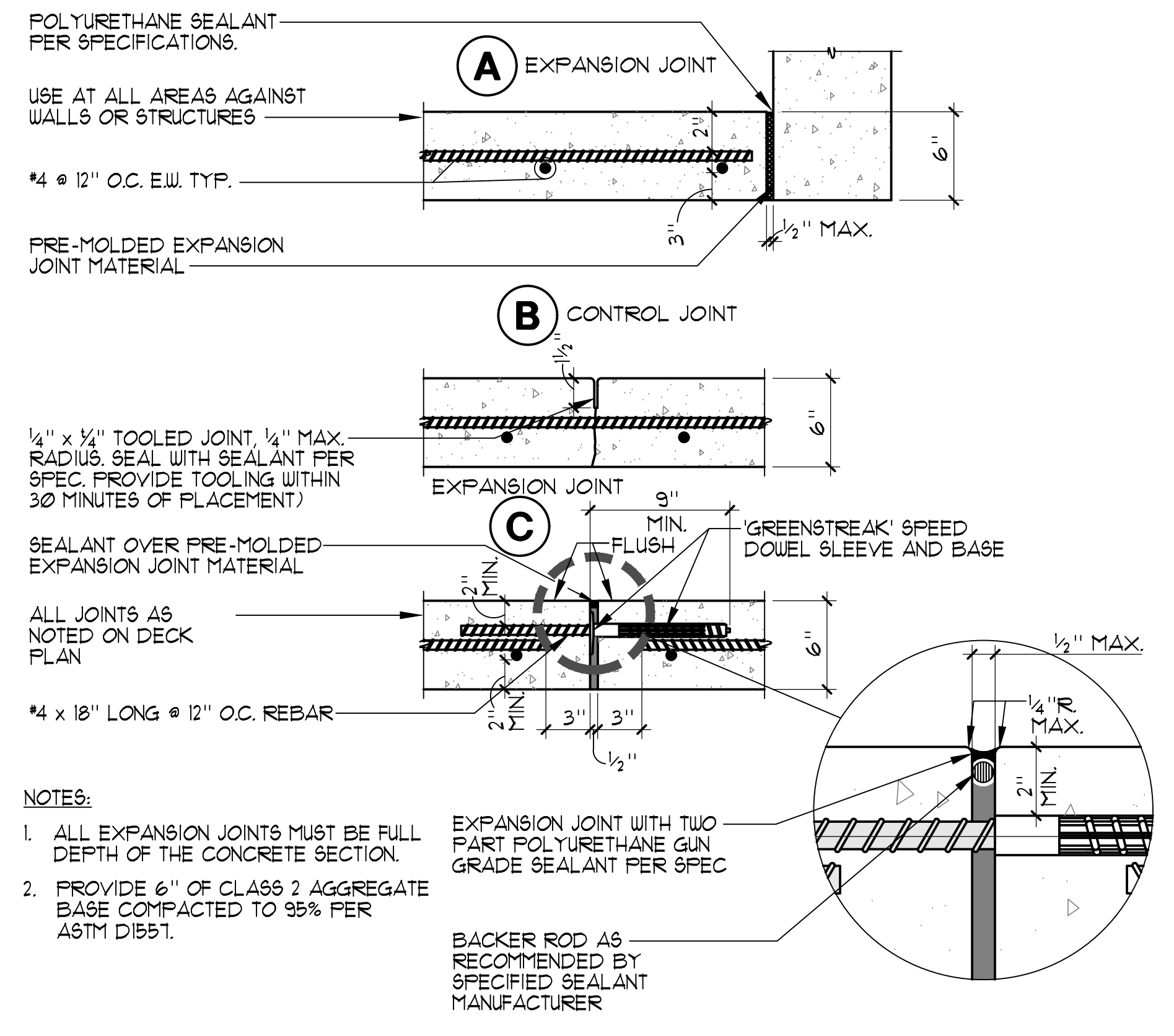


4 1/4" x 4 1/4" TILE POOL MARKERS; BLACK NUMBERS AND LETTERS ON GREY CERAMIC FIELD TILE AT DECK GUTTER FACE.

**1 INTERNATIONAL 'NO DIVING' MARKER** 1/2" = 1'-0"

**2 DEPTH MARKERS (ON DECK)** 1/2" = 1'-0"

**3 DEPTH MARKERS (AT CANTILEVER DECK FACE)** 1/2" = 1'-0"



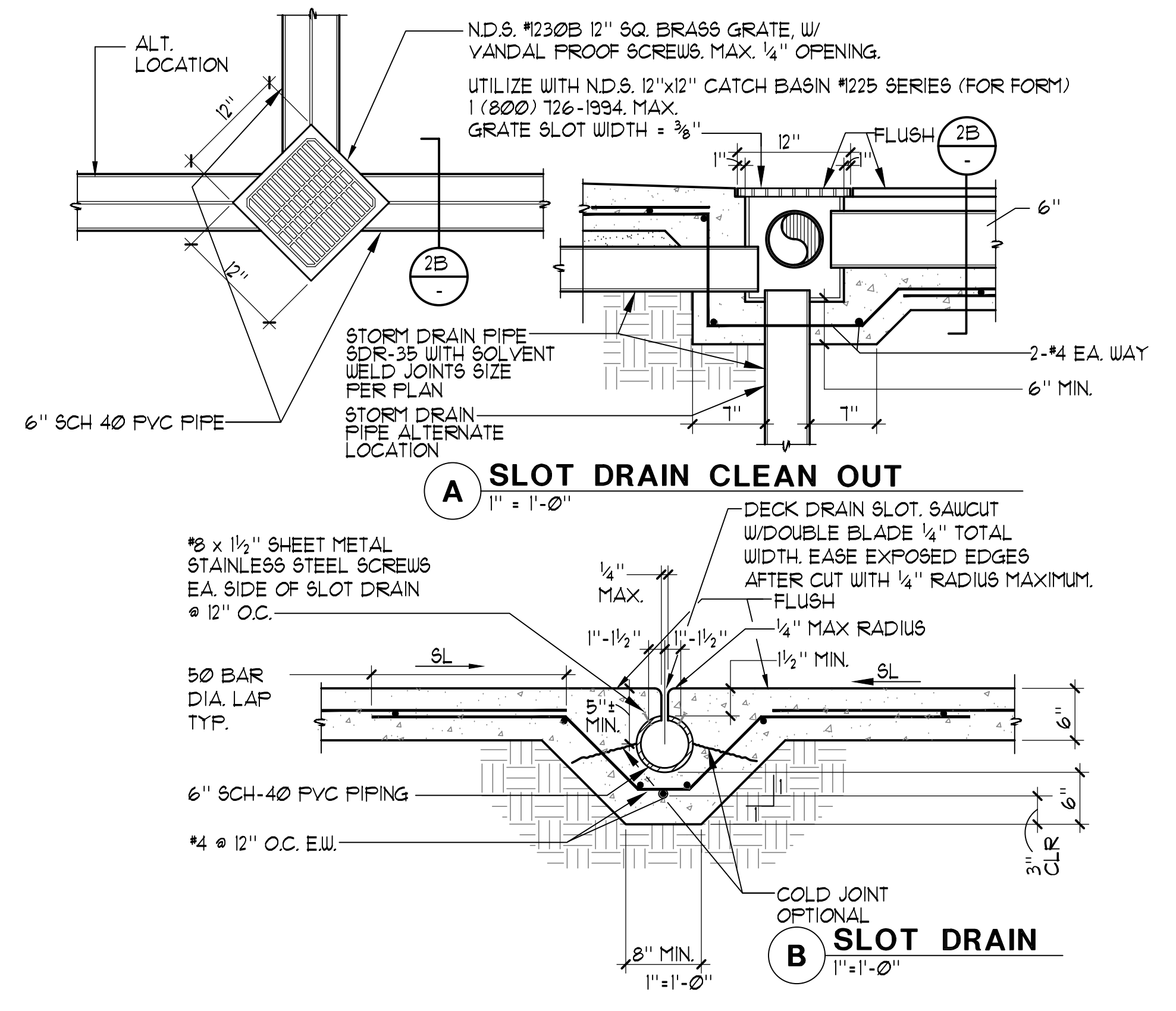
**NOTES:**

- ALL EXPANSION JOINTS MUST BE FULL DEPTH OF THE CONCRETE SECTION.
- PROVIDE 6" OF CLASS 2 AGGREGATE BASE COMPACTED TO 95% PER ASTM D1557.

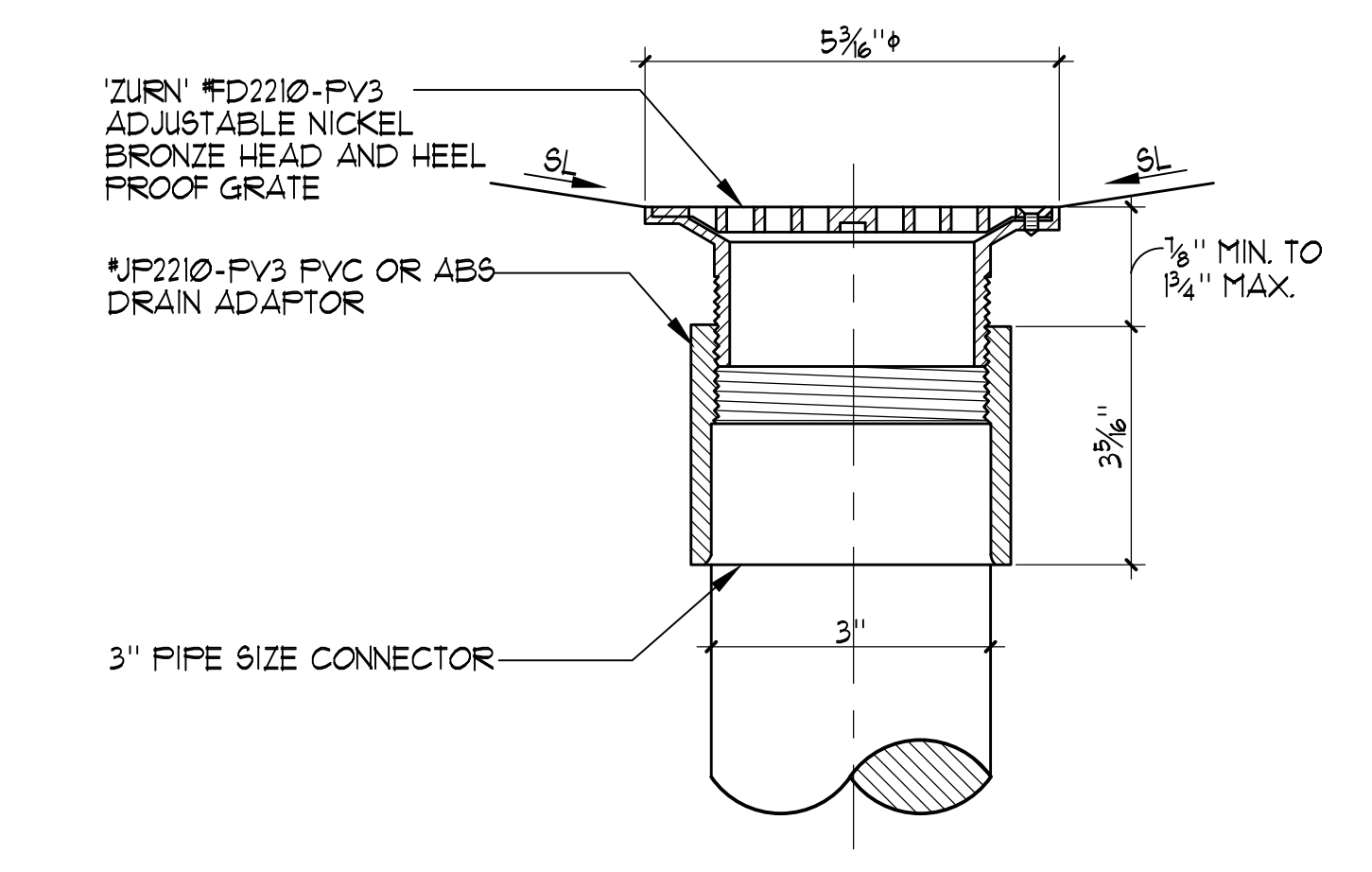
EXPANSION JOINT WITH TWO PART POLYURETHANE GUN GRADE SEALANT PER SPEC

BACKER ROD AS RECOMMENDED BY SPECIFIED SEALANT MANUFACTURER

**4 (N) CONCRETE DECK JOINT DETAILS** 1/2" = 1'-0"



**5 (N) SLOT DRAIN DETAIL** AS NOTED



**6 (N) DECK/AREA DRAIN** 1/2" = 1"

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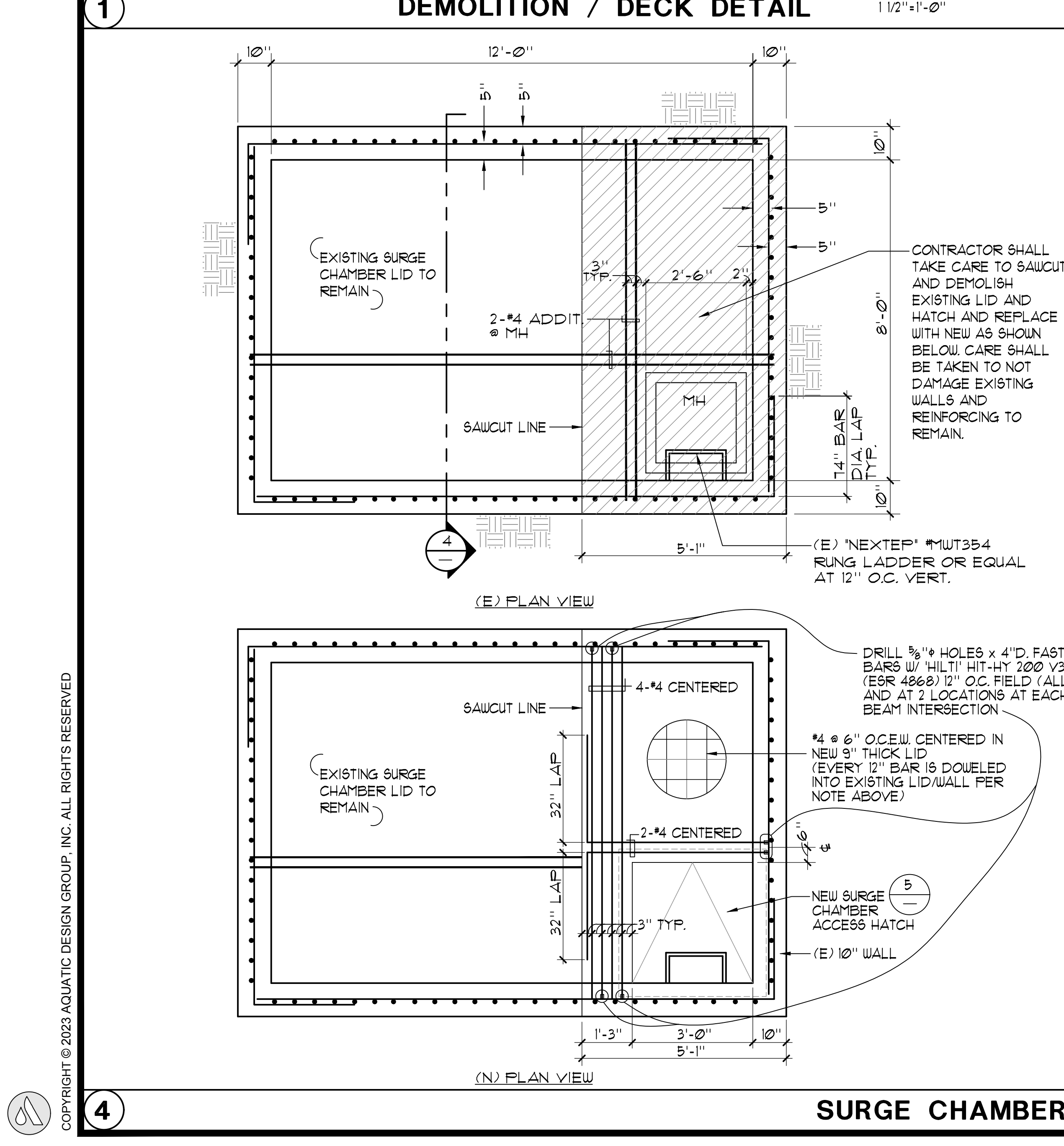
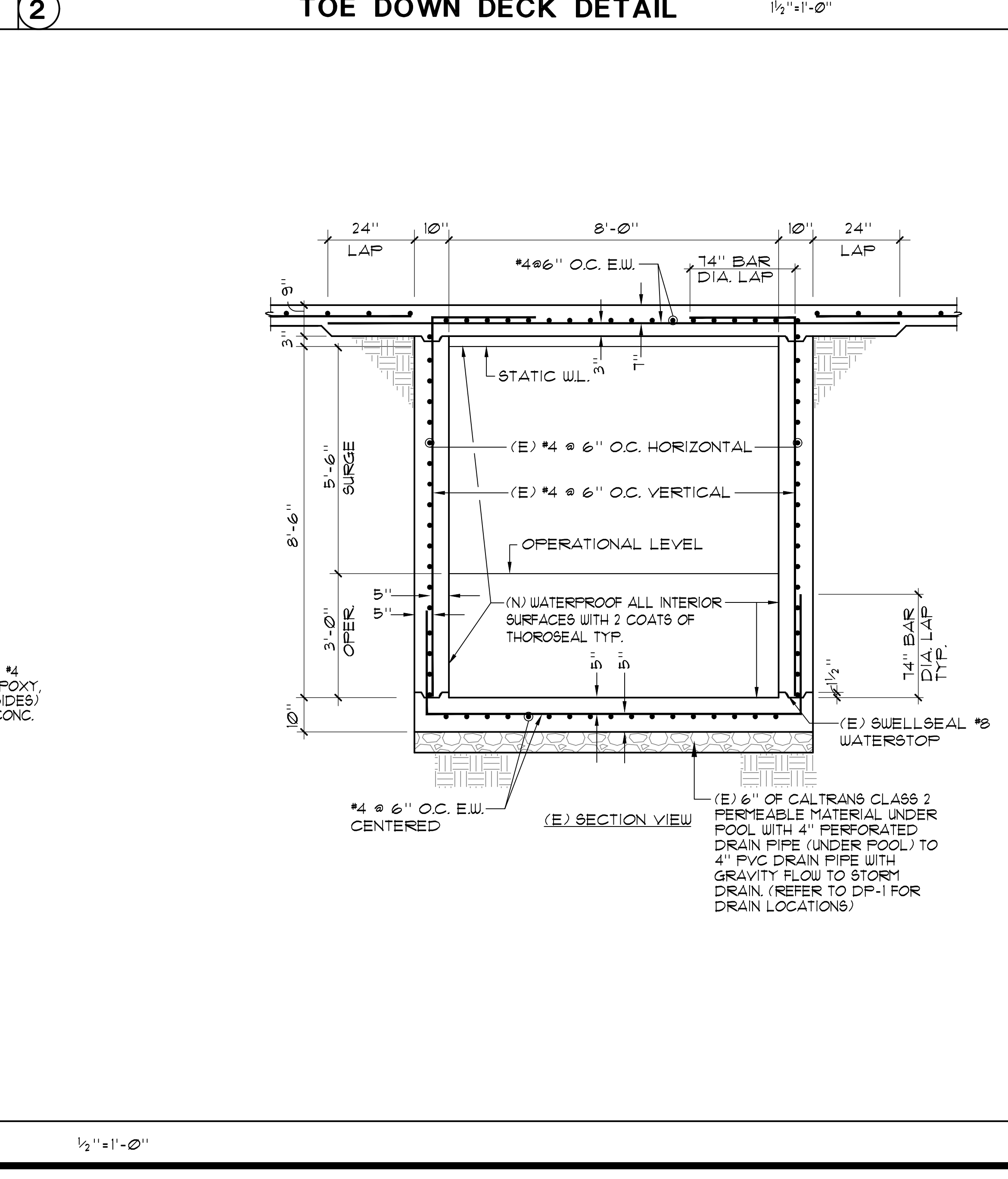
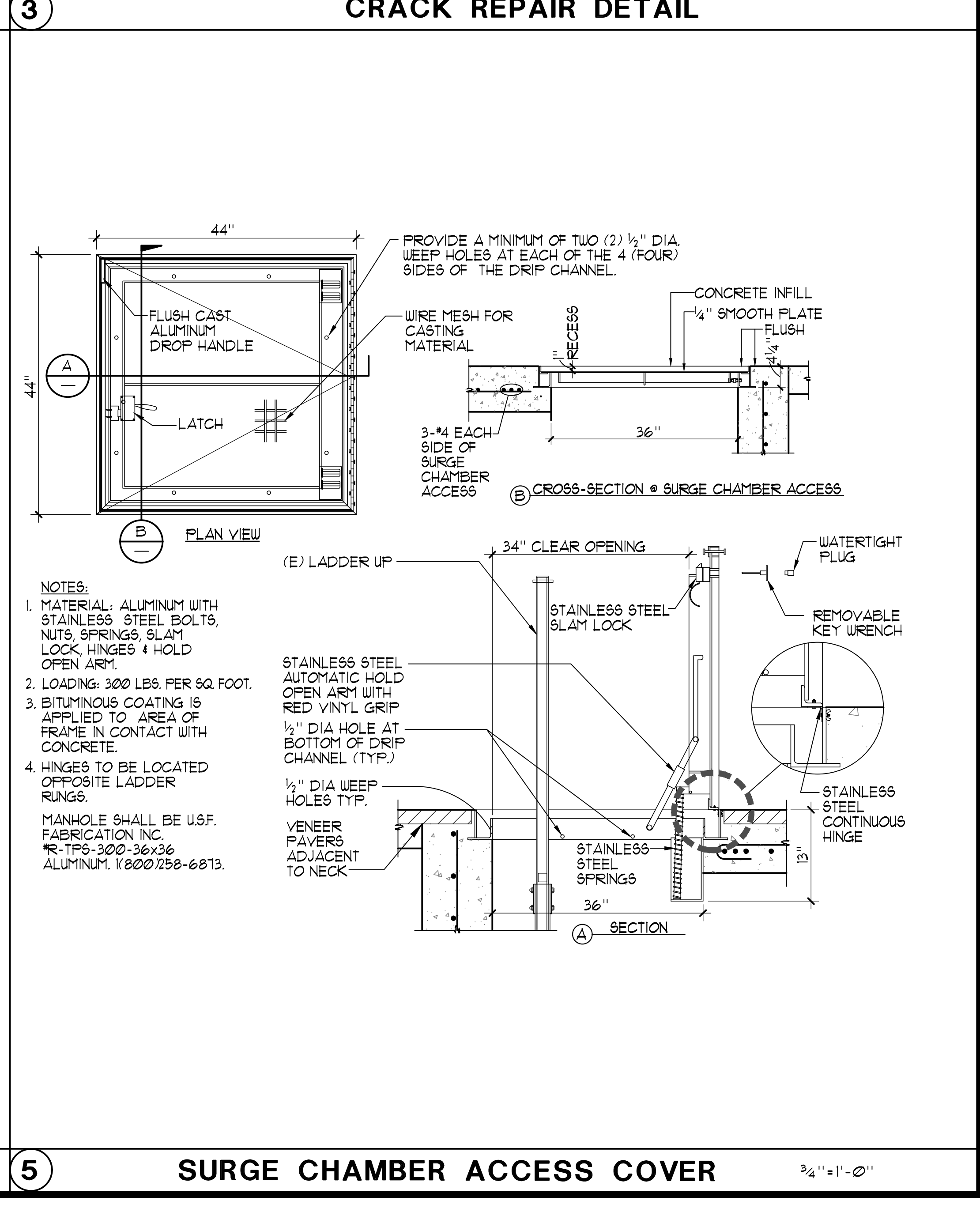
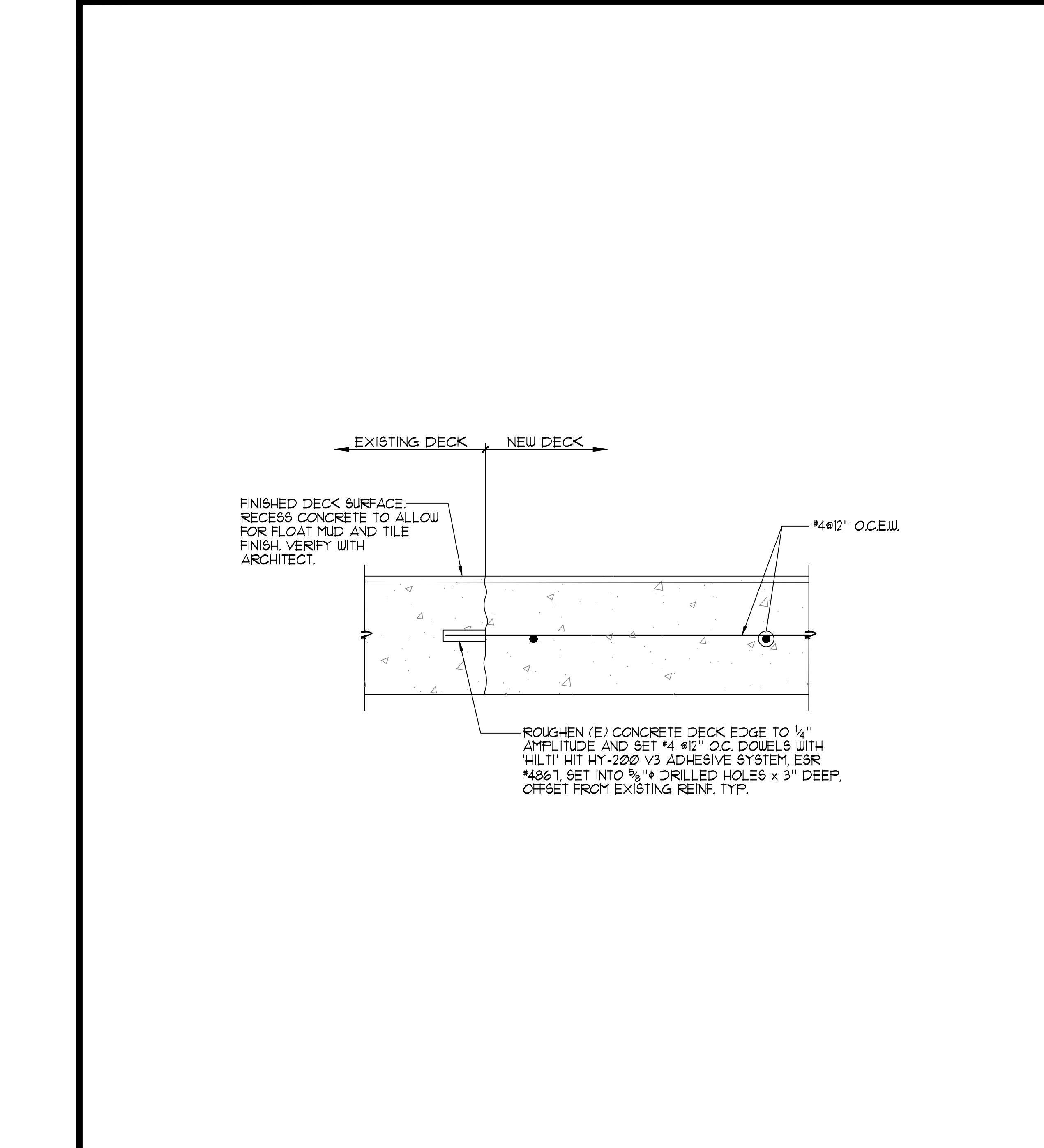
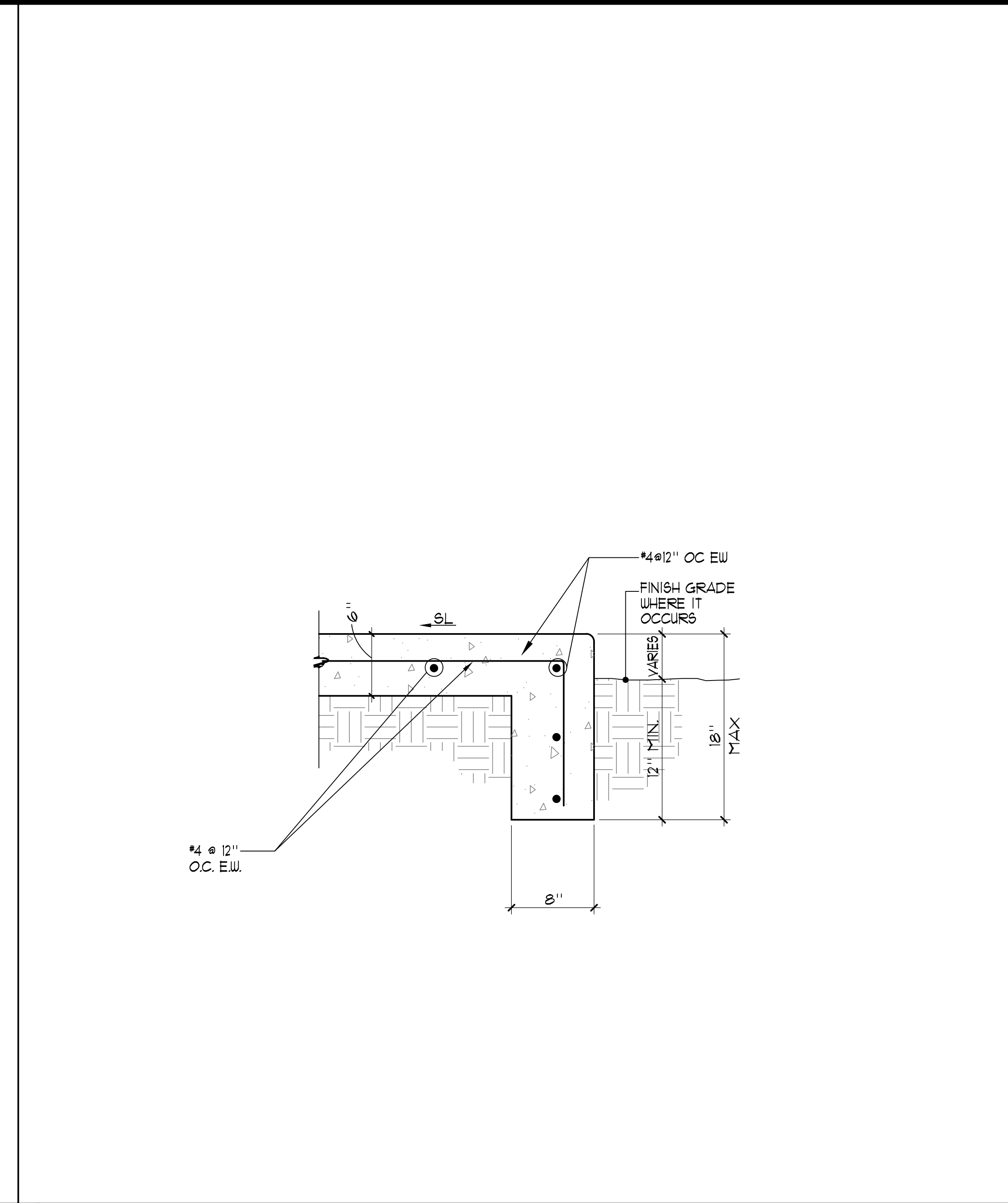
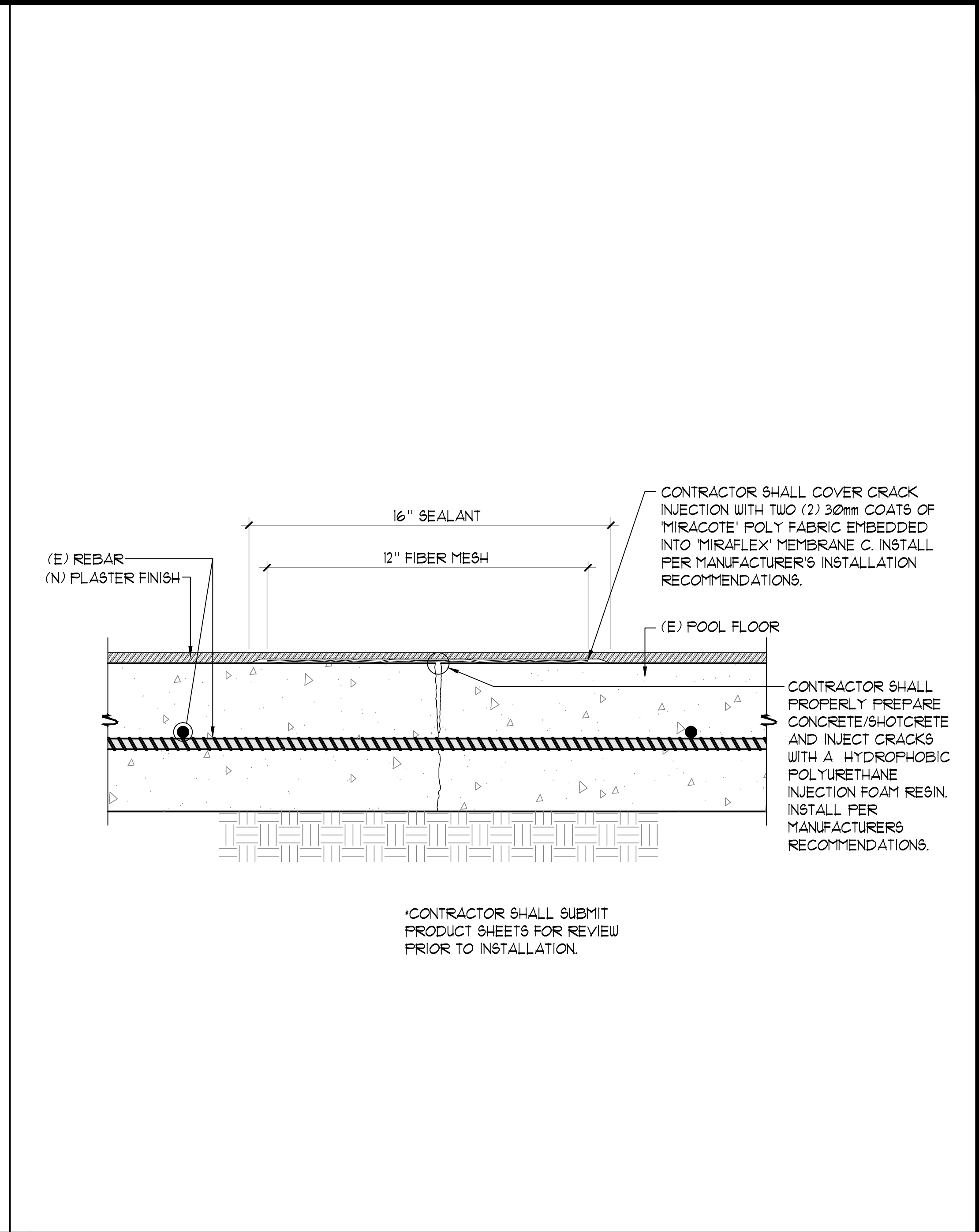
SEAL



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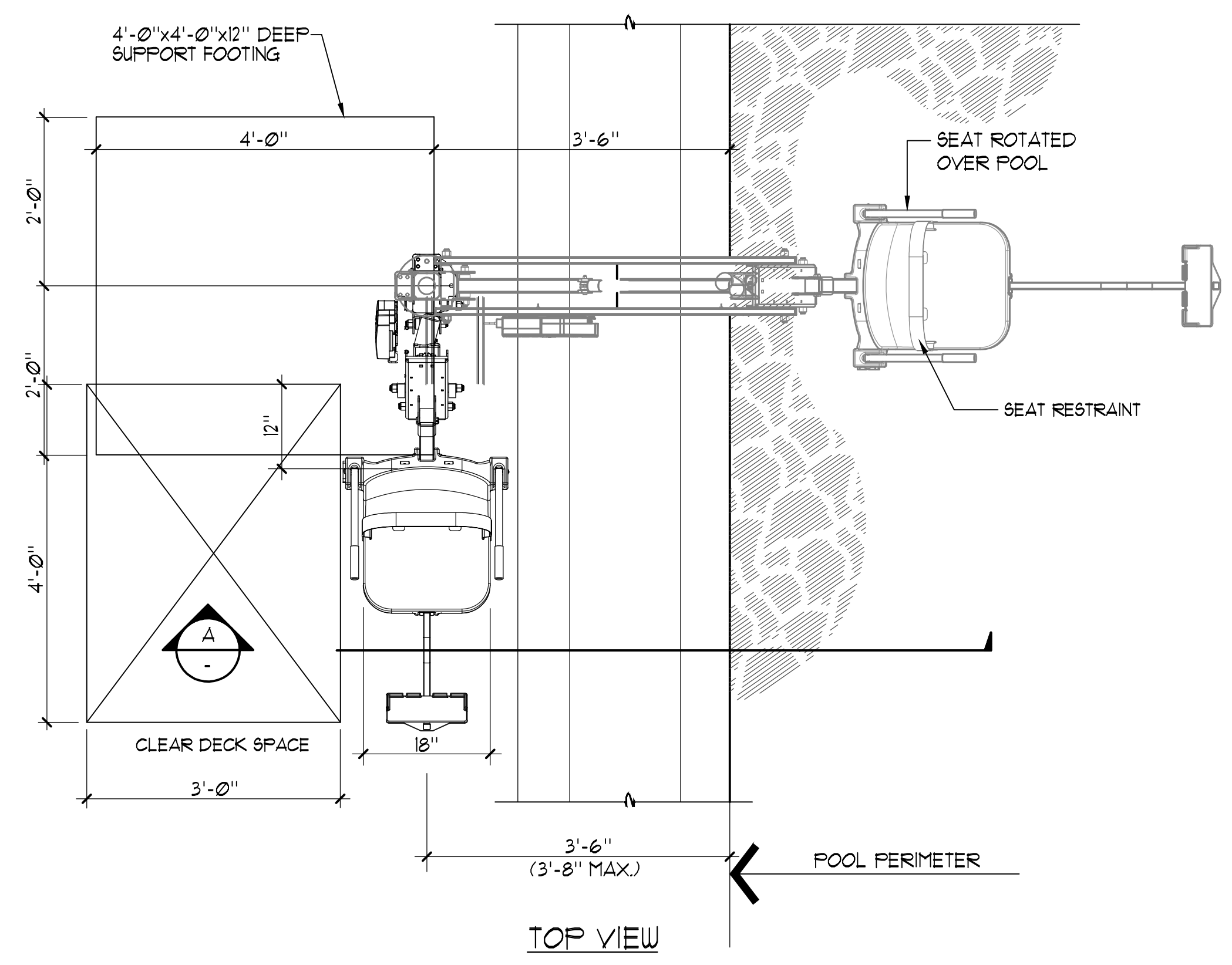
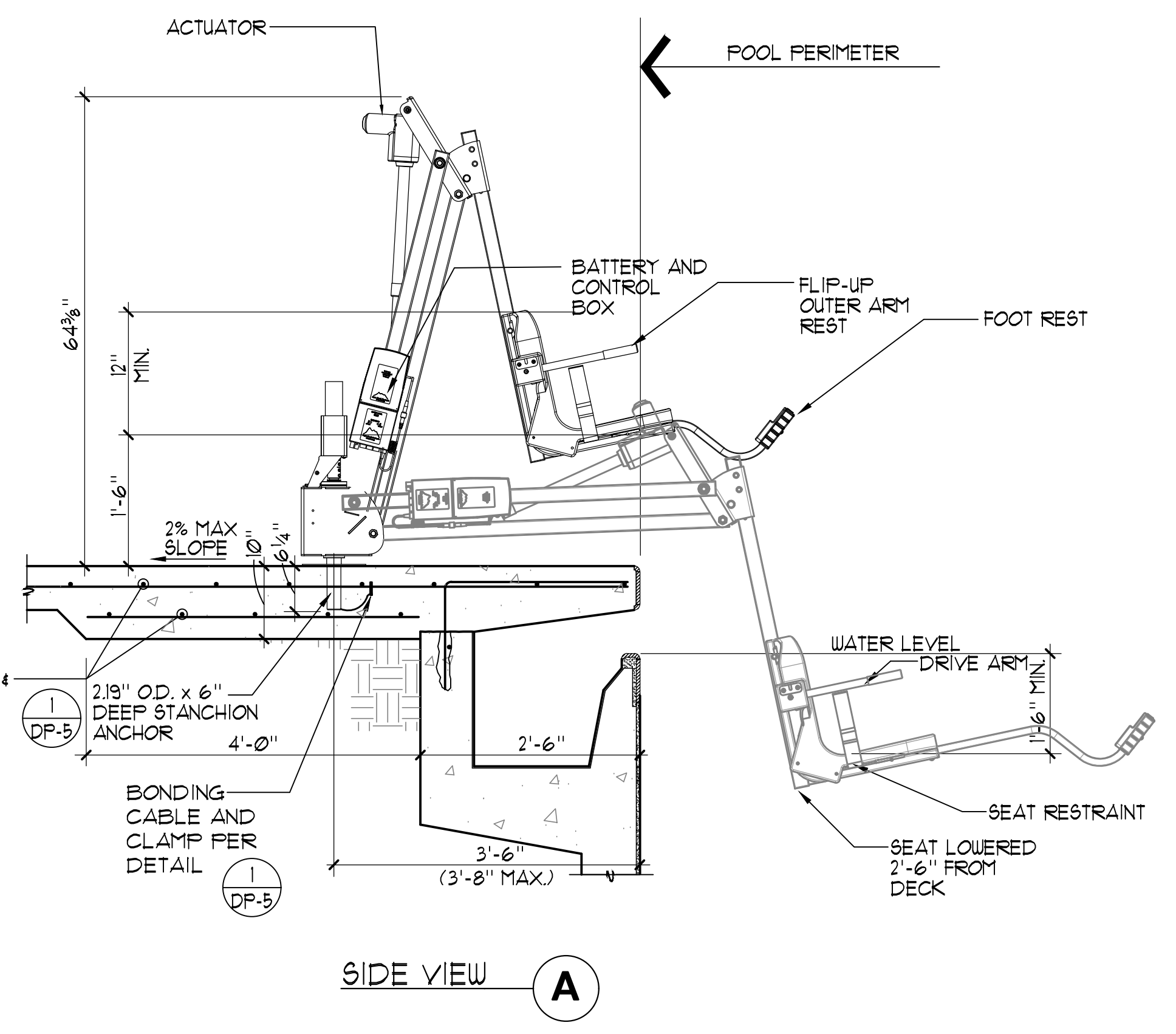
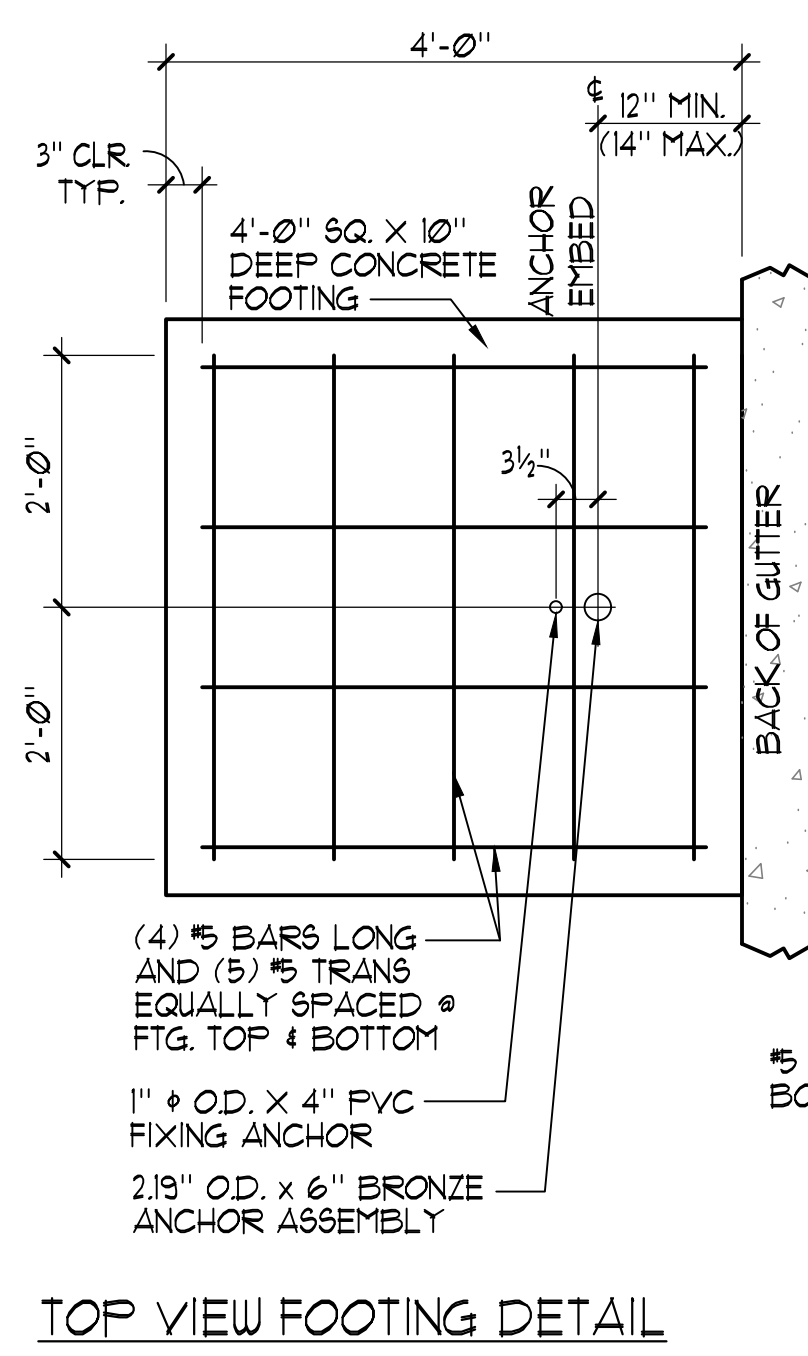
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**NOTES:**

- 'AQUA CREEK' MIGHTY 400 F-MTY400 (350 lb. MIN. AND 400 lb. MAX. LIFTING CAPACITY)
- GUSSET COVER PLATE TO BE ATTACHED REQUIRING A TOOL FOR REMOVAL.
- CONTRACTOR SHALL PROVIDE COVER FOR LIFT 'AQUA CREEK'; EXTRA BATTERY PACK 'AQUA CREEK' #F-004AB; AND TRANSPORTER CART 'AQUA CREEK' #F-MTTC.
- REFER TO ARCH. PLANS FOR LOCATION OF DISABLED LIFT BATTERY CHARGE STATION. PROVIDE 'AQUA CREEK' CHARGER #F-044CH.
- 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-10093.21)
- 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-10093.22)
- 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-10093.23)
- 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-10093.24)
- 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-10093.24)
- FOOTRESTS SHALL BE PROVIDED, EXCEPT FOR SPA LIFTS, AND SHALL MOVE WITH THE SEAT. LIFT SEAT 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-10093.26)
- 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-3093.4). LIFT MUST BE STABLE AND NOT PERMIT UNINTENDED MOVEMENT WHEN A PERSON IS GETTING INTO OR OUT OF THE SEAT. (CBC SECTION 11B-10093.17)
- 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-10093.28)
- 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-10093.24 AND SECTION 11B-309.



1

**ACCESSIBLE LIFT** 3/4" x 1'-0"

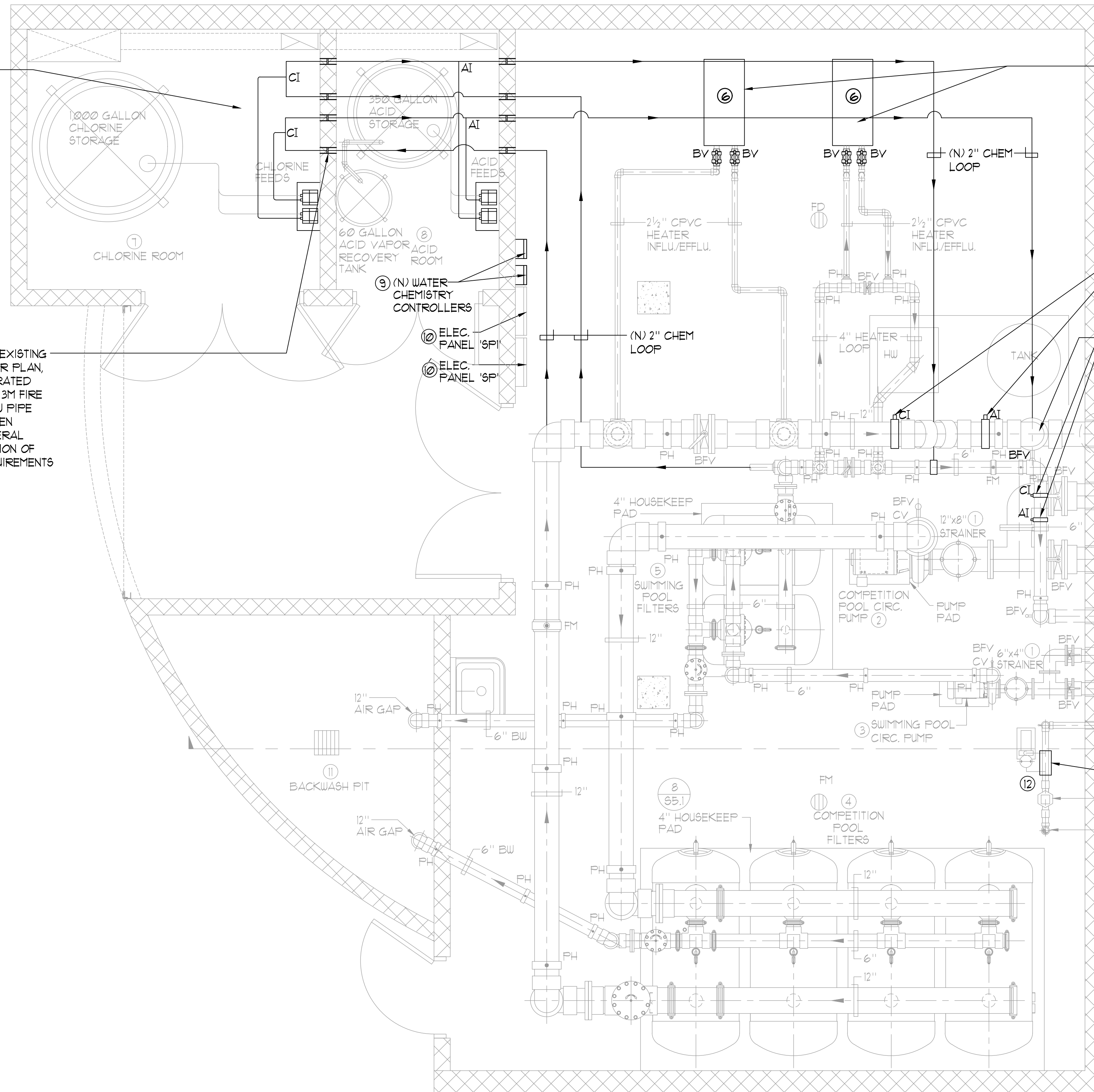
2

**NEW/ EXISTING EQUIPMENT LIST**

- ① (E) COMPETITION POOL/SWIMMING POOL CIRCULATION PUMP: MER-MADE F.O. SERIES FRP REDUCING BASKET STRAINERS, ONE (1) 12"x8" STANDARD AND ONE (1) 6"x4" STANDARD WITH ACRYLIC LID AND TWO (2) STAINLESS STEEL STRAINERS EA. (50lbs.) TWO (2) TOTAL.
- ② (E) COMPETITION POOL CIRCULATION PUMP: PACO 6035-1; 6"x8"x15" TYPE LC END SUCTION CENTRIFUGAL PUMP; 1150 RPM; 460V 3PH; 40HP; RATED AT 1650 GPM @ 65 FT TDH; 81% EFFICIENT; PREMIUM EFFICIENCY TEFC MOTOR; EPOXY COAT ALL WET SURFACES. PACO, AURORA OR EQUAL. (170lbs.)
- ③ (E) SWIMMING POOL CIRCULATION PUMP: PACO 5035-5; 3"x4"x9 1/2" TYPE LC END SUCTION CENTRIFUGAL PUMP; 1150 RPM 460V 3PH; 10HP; RATED AT 330 GPM AT 65 FT. TDH; 81% EFFICIENT; PREMIUM EFFICIENCY TEFC MOTOR EPOXY COAT ALL WET SURFACES PACO, AURORA, OR EQUAL. (160lbs.)
- ④ (E) COMPETITION POOL FILTERS: EKO SYSTEMS 42-215-4 AFC FULLY AUTOMATIC HI-RATE PERMANENT MEDIA FILTER WITH 110 SQ. FT. OF FILTER AREA RATED AT 1650 GPM AT 15 GPM/SQ. FT. COMPLETE WITH 12" FACE PIPING, 6" BACKWASH, SEISMIC ANCHORAGE. PROVIDE ALL UTILITIES, PIPING VALVING, ETC. (1215 lbs. EA. TANK) EKO3 SYSTEMS OR EQUAL. PROVIDE SIGNET MK-515 FLOSENSOR WITH DIGITAL READ-OUT.
- ⑤ (E) SWIMMING POOL FILTERS: EKO3 SYSTEMS 34-126-2 AFC FULLY AUTOMATIC HI-RATE PERMANENT MEDIA FILTER WITH 252 SQ. FT. OF FILTER AREA RATED AT 400 GPM AT 16 GPM/SQ. FT. COMPLETE WITH 6" FACE PIPING, 6" BACKWASH, SEISMIC ANCHORAGE. PROVIDE ALL UTILITIES, PIPING VALVING, ETC. (5100 lbs. EA. TANK) EKO3 SYSTEMS OR EQUAL. PROVIDE SIGNET MK-515 FLOSENSOR WITH DIGITAL READ-OUT.
- ⑥ (N) POLARIS PLATE HEAT EXCHANGERS: REPLACE IN KIND WITH SAME MODEL NUMBER AND FLOW RATE. CONTRACTOR SHALL FIELD VERIFY WITH MANUFACTURER PRIOR TO ORDERING. PROVIDE NEW INFLUENT AND EFFLUENT VALVING. TWO (2) SYSTEMS TOTAL.
- ⑦ (E) CHLORINE STORAGE/FEED SYSTEM: PROVIDE ONE (1) CHEM-TAINER 1000 GALLON #CT1485DC (8340 lbs.) DUAL STORAGE/CONTAINMENT TANK WITH LID SEISMICALLY RESTRAINED; COMPLIES WITH FED. REG. #40CFR-264-193. COMPETITION POOL FEED PUMP SHALL BE LMI #D43-88P-K51; 288 GPD @ 150 PSI WITH FRP SHELF BRACKET. (N) SWIMMING POOL FEED PUMP SHALL BE LMI #D21-36291; 96 GPD @ 100 PSI WITH FRP SHELF BRACKET. PROVIDE NEW FEED PIPING FROM FEED PUMP TO NEW CHEMICAL LOOP PIPING.
- ⑧ (E) ACID STORAGE/FEED SYSTEM: PROVIDE CHEM-TAINER 350 GALLON #CS256DC DUAL STORAGE/CONTAINMENT TANK WITH LID SEISMICALLY RESTRAINED; (2915 lbs.) COMPLIES WITH FED. REG. #40CFR-264-193. COMPETITION POOL FEED PUMP SHALL BE LMI #D43-88P-K51; 288 GPD @ 150 PSI WITH FRP SHELF BRACKET. (N) SWIMMING POOL FEED PUMP SHALL BE LMI #D21-36291; 60 GPD @ 100 PSI WITH FRP SHELF BRACKET. (N) SWIMMING POOL FEED PUMP SHALL BE LMI #D21-36291; 60 GPD @ 100 PSI WITH FRP SHELF BRACKET. PROVIDE NEW FEED PIPING FROM FEED PUMP TO NEW CHEMICAL LOOP PIPING.
- ⑨ (N) WATER CHEMISTRY CONTROLLERS: PROVIDE ETHERNET CONNECTION TO BECSYS CS-BECSYS1-BF-E WATER CHEMISTRY CONTROLLER. PROVIDE COMPLETE SYSTEM CONTROL PACKAGE WITH NEW AUTO FILTER CONTROL. BECSYS SYSTEM T1, IMPACT, WALLACE & TIERNAN OR APPROVED EQUAL. TWO (2) TOTAL.
- ⑩ ELECTRICAL: PROVIDE ALL ELECTRICAL WIRING, CONDUIT, PANEL(S) STARTER/DISCONNECT INTERCONNECT(S) ETC. AS REQUIRED FOR PROPER EQUIPMENT INSTALLATION PER MANUFACTURERS RECOMMENDATIONS AND SHOP DRAWINGS. COORDINATE ALL WORK WITH OTHER TRADES AS REQUIRED. REFER TO ELEC. PLANS FOR ALL ADDITIONAL INFO. REPLACE ALL ELECTRICAL GFCI BREAKERS FOR UNDERWATER LIGHTS IN THE ELECTRICAL PANEL(S).
- ⑪ (E) BACKWASH PIT: 12'-0" X 12'-6" X 1'-0" TALL WITH 8" P-TRAP OUTLET TO SEWER. PROVIDE TWO COATS THOROSEAL COATING ON ALL INTERIOR SURFACES. COORDINATE WITH STRUCTURAL AND PLUMBING PLANS.
- ⑫ (E) FILL SYSTEM: 3" GLA-YVAL FILL SYSTEM FROM DOMESTIC SOURCE PROTECTED WITH REDUCED PRESSURE BACKFLOW PREVENTOR. PROVIDE #24-21482-3 VALVE WITH 21482-3 FLOAT CONTROL IN 21" PVC STILLING WELL IN SURGE CHAMBER. PROVIDE HONEYWELL AMCO 8VQ04 ELECTROMAGNETIC FLOW METER 3" SIZE SO OWNER CAN SUBMETER THEIR WATER USAGE. PROVIDE WITH DISPLAY AND LEAD WIRE AND DISPLAYED IN U.S. GALLONS.

CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING CHLORINE GENERATION SYSTEM CURRENTLY INSIDE THE CHLORINE ROOM AND CAP ANY PIPING THAT NEEDS TO REMAIN OFF ORIGINAL POOL FILTRATION SYSTEM COMPLETE.

CONTRACTOR SHALL CORE THROUGH EXISTING WALL FOR NEW 2" CHEMICAL LOOP PER PLAN, TYP. AND IN COMPLIANCE WITH 1 HR RATED SPACE REQUIREMENTS AND PROVIDE 3M FIRE CAULK AND SUPPORT PIPING WITH NEW PIPE HANGERS NOT TO EXCEED 6FT BETWEEN SUPPORTS AND SHALL PROVIDE LATERAL BRACING AT AND CHANGE OF DIRECTION OF PIPE TO MEET SEISMIC BRACING REQUIREMENTS PER CODE.



NOTE:  
CONTRACTOR SHALL BALANCE OUT SYSTEM WITH ADDITION OF NEW CHEMICAL LOOPS AND PROVIDE ANY ADDITIONAL VALVING AS REQUIRED TO PROVIDE ANGLE WATER DIVERSION INTO CHEMICAL LOOPS AND STILL PROVIDE PROPER FLOW THROUGH HEAT EXCHANGERS AS REQUIRED PER MANUFACTURER OF HEAT EXCHANGER FIELD VERIFY ALL CONDITIONS.

CONTRACTOR SHALL VERIFY EXISTING HEAT EXCHANGER MODELS AND REPLACE WITH NEW EQUIVALENT TO EXISTING AND PROVIDE NEW VALVING AT EACH HEAT EXCHANGER FROM HEATER LOOP ON BOTH POOL WATER AND DOMESTIC WATER SIDE. FIELD VERIFY ALL CONDITIONS WHICH MAY NOT MATCH THIS PLAN EXACTLY DUE TO AS BUILT CONDITIONS.

CONTRACTOR SHALL REMOVE EXISTING CHEMICAL FEED TUBES AND PROPERLY CAP AND ABANDON EXISTING CHEMICAL INJECTION POINTS AND PROVIDE A NEW CHEMICAL FEED LOOP WITH NEW INJECTION POINTS INTO EACH RESPECTIVE CHEMICAL ROOM.

CONTRACTOR SHALL REMOVE AND REPLACE EXISTING EFFLUENT BUTTERFLY VALVE THAT HAS CEASED UP. REPLACE WITH NEW 12" VALVE LINK SEAL TYP.

12" COMPETITION POOL FLOOR INLET RETURN

12" COMPETITION POOL SURGE CHAMBER SUCTION

12" COMPETITION POOL MAIN DRAIN SUCTION

6" SWIMMING POOL FLOOR INLET RETURN

6" SWIMMING POOL SURGE CHAMBER SUCTION

6" SWIMMING POOL MAIN DRAIN SUCTION

⑫ 3" TO POOL FILL @ SURGE CHAMBER

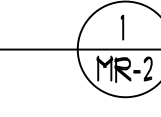
REMOVE (E) SPECTRUM COLD WATER BOOSTER PUMP SYSTEM AND INSTALL NEW HONEYWELL AMCO 8VQ04 FLOW METER FOR SUBMETER WATER MANAGEMENT

**THREE PHASE MOTOR LOADS AT 460V**

COMPETITION POOL CIRCULATION PUMP: 40 HP @ 460V.	=	52 AMPS
SWIMMING POOL CIRCULATION PUMP: 10 HP @ 460V.	=	14 AMPS
TOTAL AMPS	=	66 AMPS

**LEGEND**

- BV = BALL VALVE
- BFV = BUTTERFLY VALVE
- CV = CHECK VALVE
- FM = FLOUMETER
- AI = ACID INJECTION
- CI = CHLORINE INJECTION
- PH = PIPE HANGER
- FD = FLOOR DRAIN
- RFBFP = REDUCED PRESSURE BACKFLOW PREVENTOR
- (N) = NEW
- (E) = EXISTING



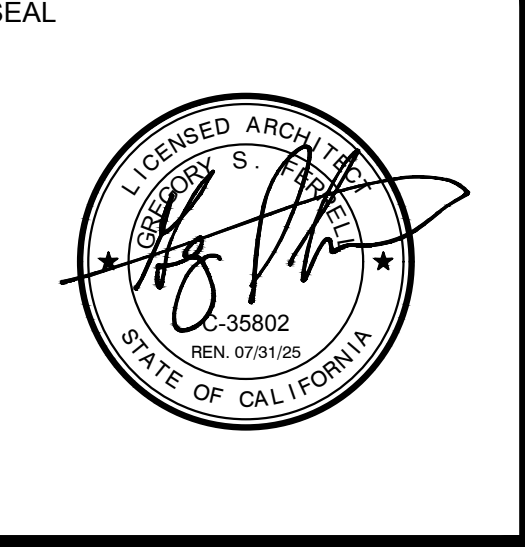
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PROJECT INFORMATION  
**LAS POSITAS COLLEGE**  
**AQUATIC CENTER RENOVATION**  
 3033 COLLIER CANYON ROAD  
 LIVERMORE, CALIFORNIA 94551

REVISIONS

NO.	DATE	DESCRIPTION

LOGO



DRAWING TITLE  
**NEW/ EXISTING MECHANICAL ROOM LAYOUT PLAN**

PROJECT NO.	2023.037
DRAWN BY	GSF
CHECKED BY	GSF
DATE	10/16/23
DRAWING NO.	

**MR-1**



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REVISIONS

NO.	DATE	DESCRIPTION

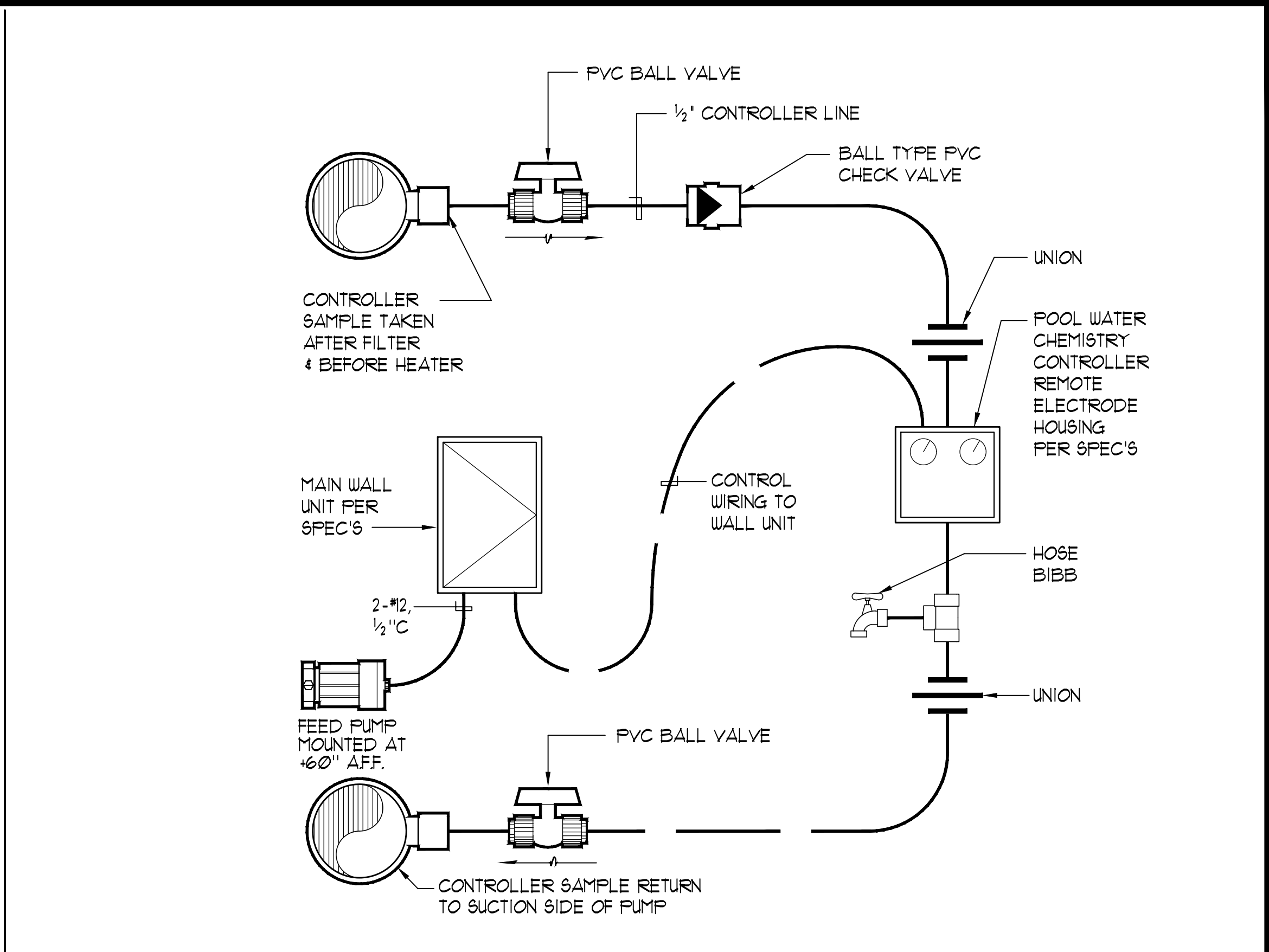
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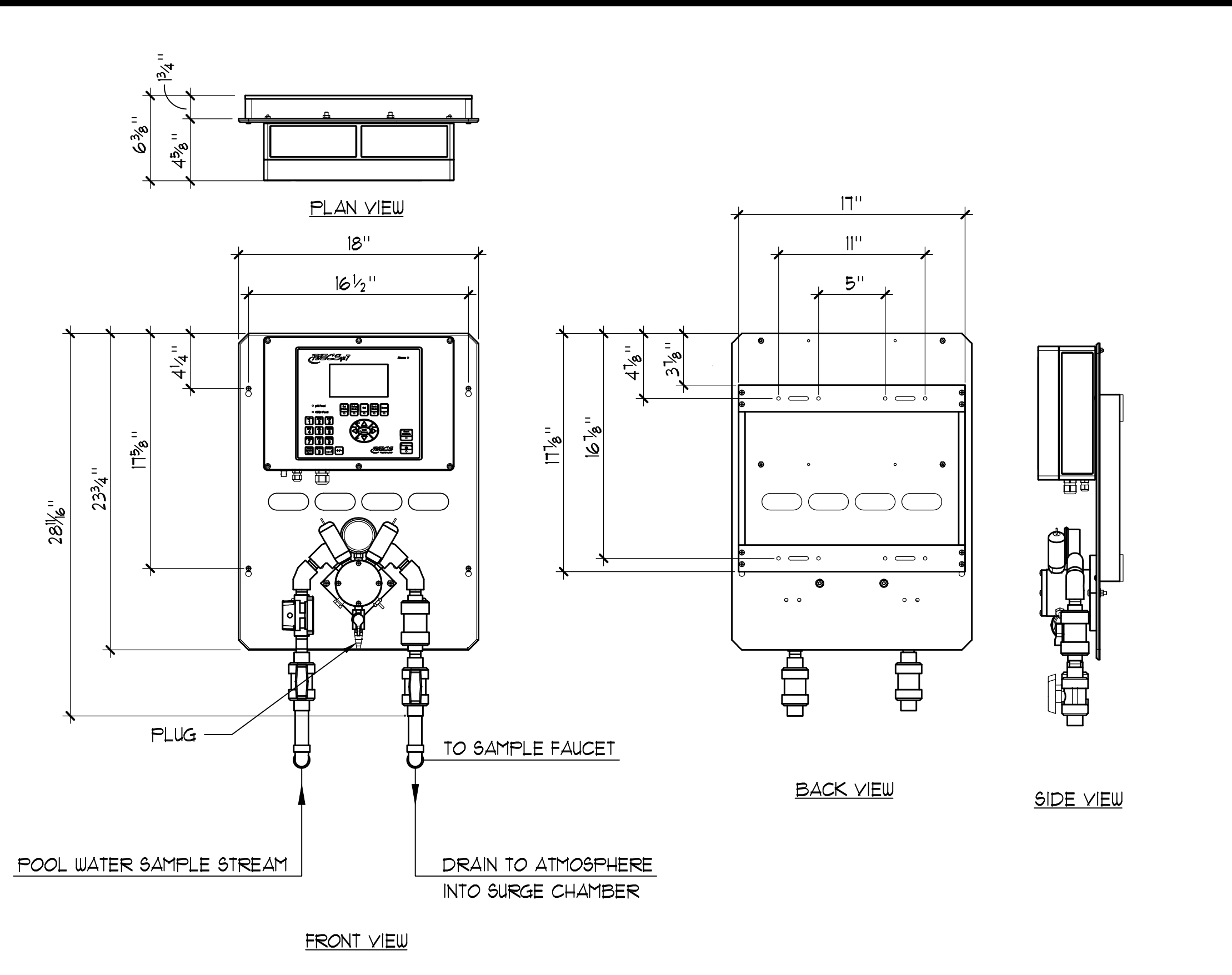
DRAWING TITLE  
**MECHANICAL ROOM DETAILS**

PROJECT NO. 2023.037  
 DRAWN BY GSF  
 CHECKED BY GSF  
 DATE 10/16/23  
 DRAWING NO.

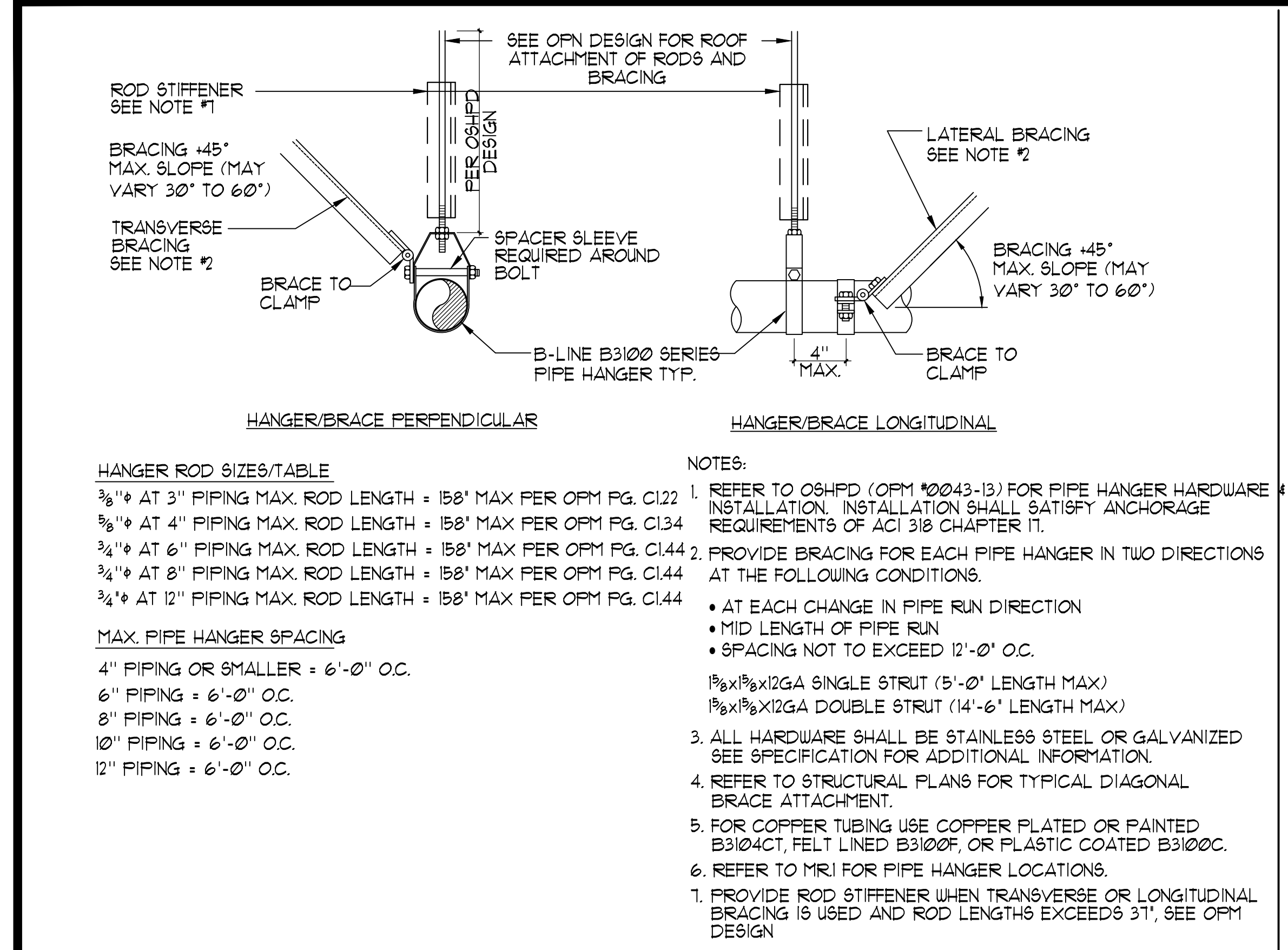
**MR-2**



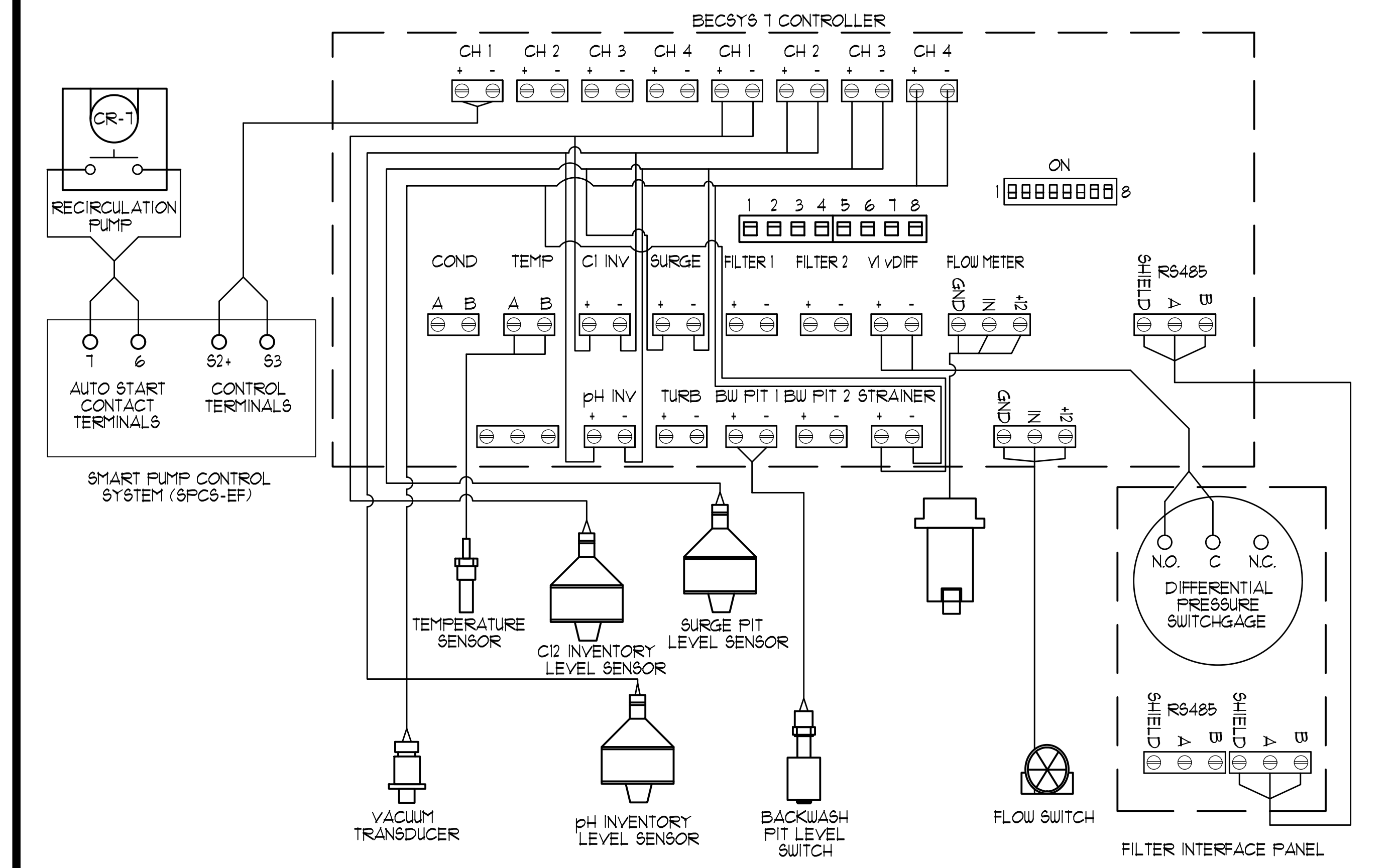
3 WATER CHEMISTRY CONTROLLER SCHEMATIC NO SCALE



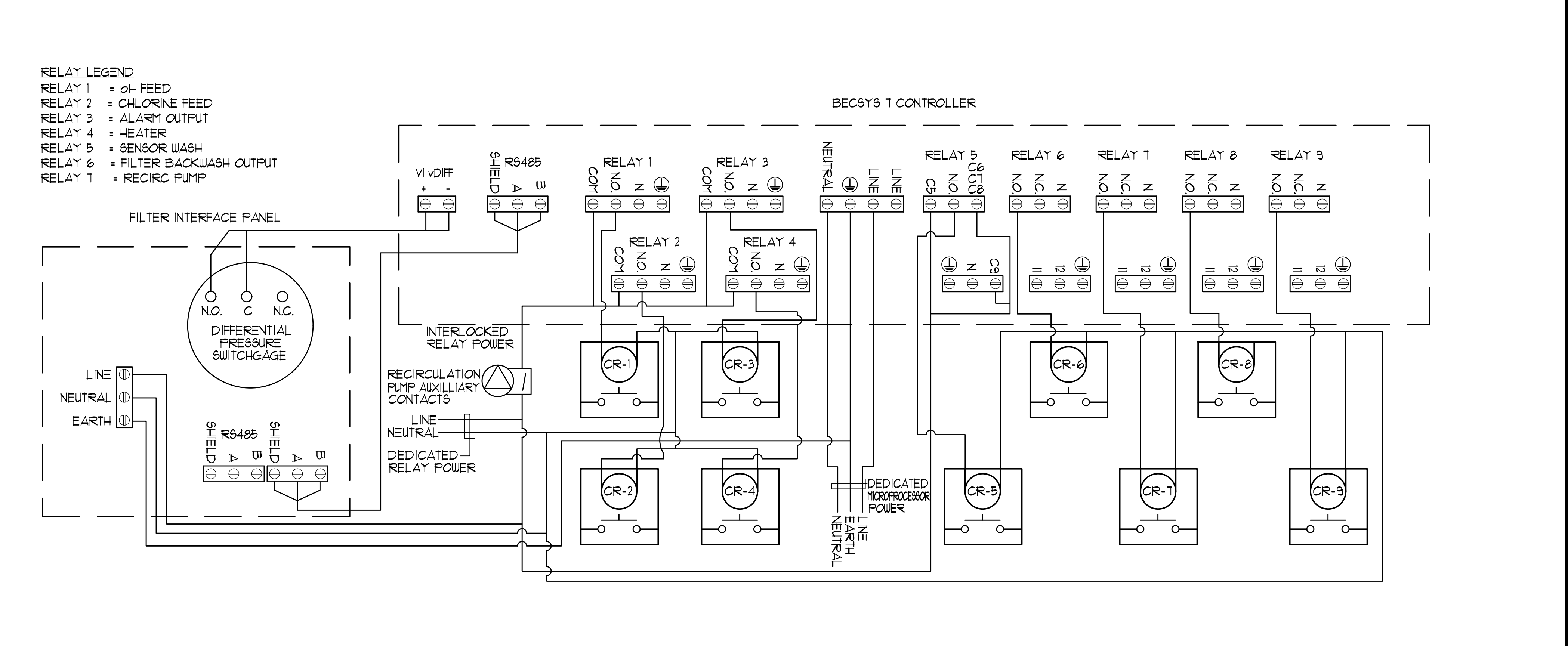
2 WATER CHEMISTRY CONTROLLER 1 1/2" x 1'-0"



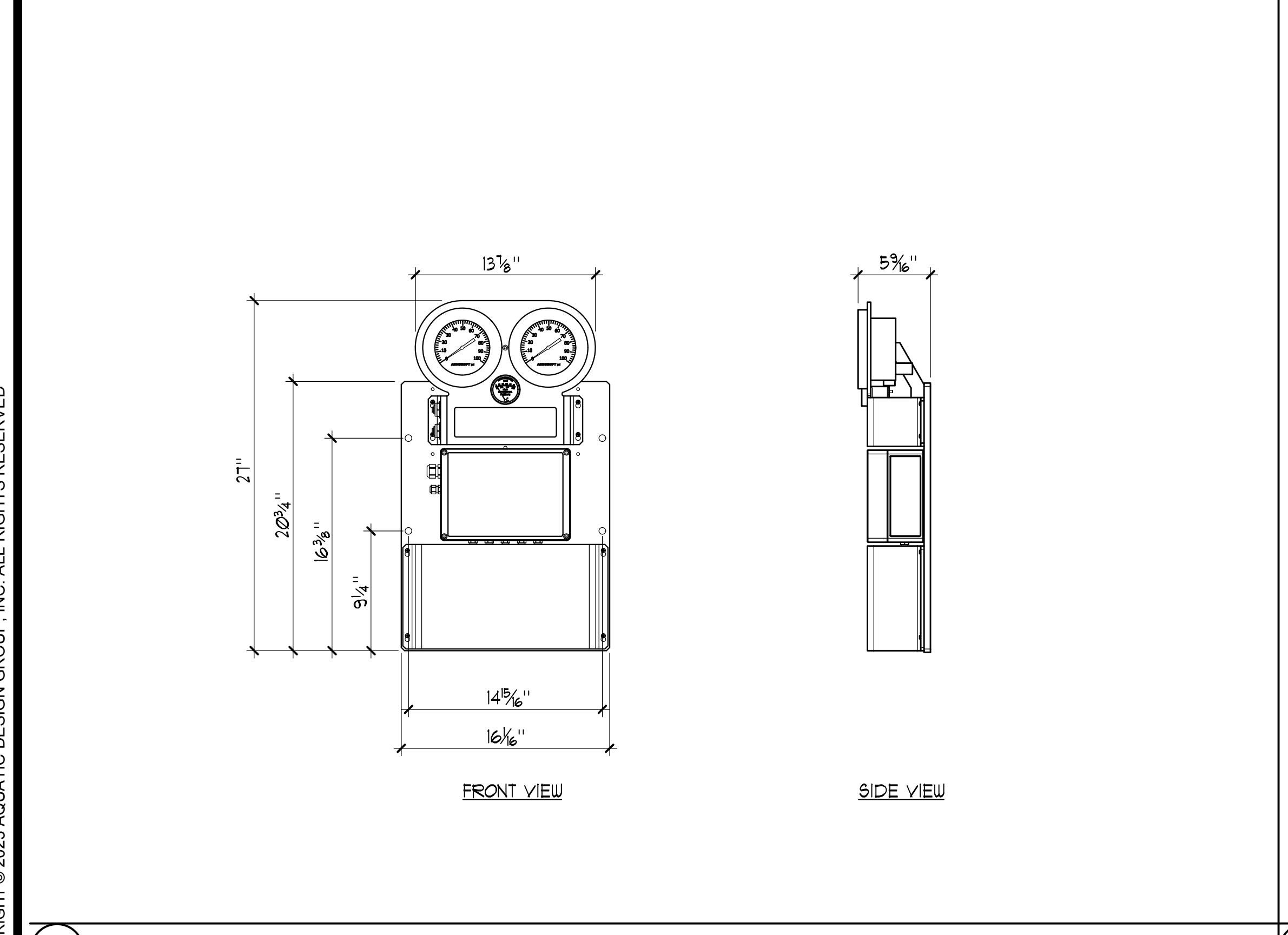
1 'UNISTRUT' PIPING HANGER / SUPPORT DETAILS



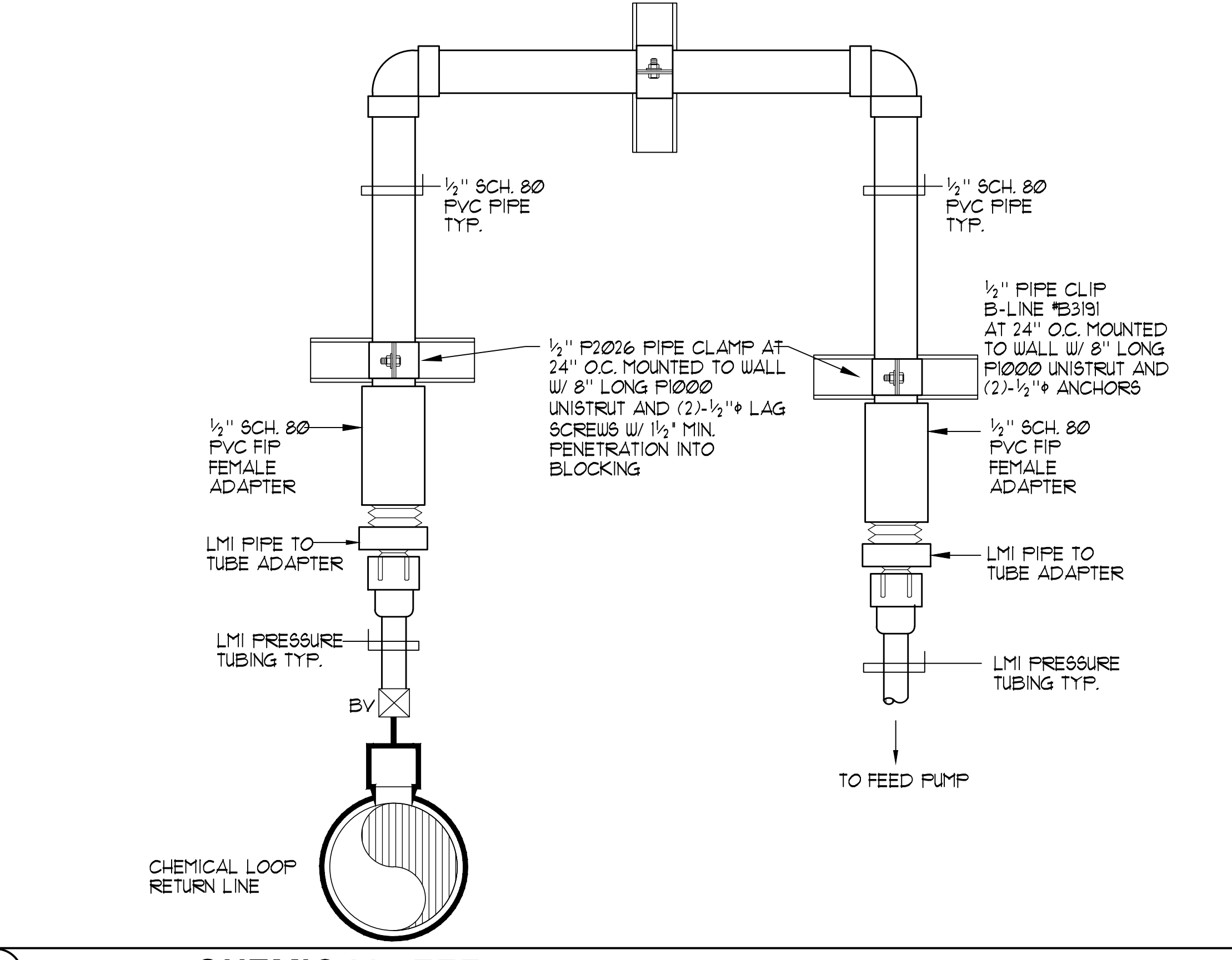
4 WATER CHEMISTRY CONTROLLER RELAY INPUTS NO SCALE



5 WATER CHEMISTRY CONTROLLER RELAY OUTPUTS NO SCALE



6 FILTER INTERFACE SYSTEM 1 1/2" x 1'-0"



7 CHEMICAL FEED PIPING DETAIL NO SCALE

DESIGNATION:	VOLTAGE:	120/208V 3PH 4W	LOCATION:	MECHANICAL ROOM
'SP'	200 AMP MAIN BREAKER	MAIN LUG	MINIMUM DEVICE	10,000
	RECESSED	SURFACE	A.I.C. RATING	14,000
DESCRIPTION:	C/B/C/S	φ A	φ B	φ C
CP UNDERWATER LIGHTS	1	1000	1000	1000
	2	1000	1000	1000
	3	1000	1000	1000
	4	1000	1000	1000
	5	1000	1000	1000
	6	1000	1000	1000
	7	1000	1000	1000
	8	1000	1000	1000
	9	1000	1000	1000
	10	1000	1000	1000
	11	1000	1000	1000
	12	1000	1000	1000
	13	1900	1900	1900
	14	1200	1200	1200
	15	1000	1000	1000
	16	1000	1000	1000
	17	1000	1000	1000
	18	1000	1000	1000
	19	1000	1000	1000
	20	1200	1200	1200
	21	1000	1000	1000
	22	1200	1200	1200
	23	1000	1000	1000
	24	1000	1000	1000
	25	1000	1000	1000
	26	1440	1440	1440
	27	1000	1000	1000
	28	1000	1000	1000
	29	1000	1000	1000
	30	1440	1440	1440
	31	1000	1000	1000
	32	1440	1440	1440
	33	720	720	720
	34	720	720	720
	35	720	720	720
	36	720	720	720
	37	720	720	720
	38	720	720	720
	39	720	720	720
	40	720	720	720
	41	720	720	720
	42	720	720	720
TOTAL PER PHASE	13500	12400	11560	16875 ± 20% = 141 AMPS
+ 25% L.C.L.	3375	3100	2890	
TOTAL	16875	15500	14450	

8 EXISTING PANEL SCHEDULE