

NOTICE TO BIDDERS:
ADDENDUM #1



BID #100-21
AQUATICS IMPROVEMENTS PROJECT

The following changes, additions, deletions, clarifications or corrections shall become part of the Bid & Contract Documents for the above listed project. This Addendum #1 forms a part of the contract document and modifies the original bidding documents. Acknowledge receipt of Addendum #1 in the space provided on the bid form. Failure to do so may subject bidder to disqualification.

ATTACHMENTS:

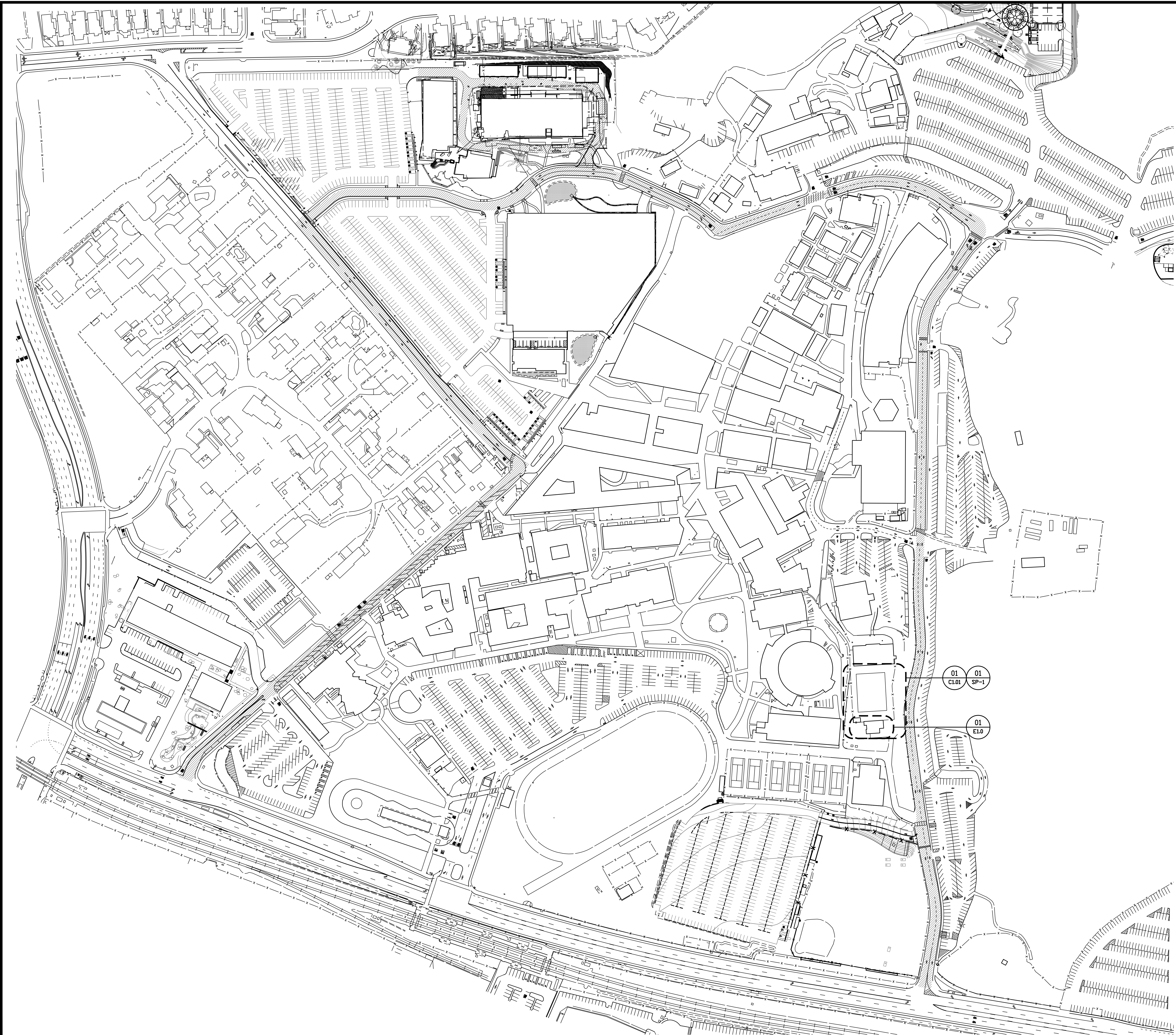
- Updated project plans that include changes based upon the comments received from the Health Department

EXTENSION TO BID DUE DATE

- RFI's due date - 18 May 2021 by no later than 4:30 pm
- Final Addendum - 20 May 2021 by no later than 4:00 pm
- Bid due date - 26 May 2021 by no later than 2:00 pm

END OF ADDENDUM #1

Date Issued: May 14, 2021
Debbi Claypool, Senior Contracts Administrator
Office of Contract Services
Palomar Community College District



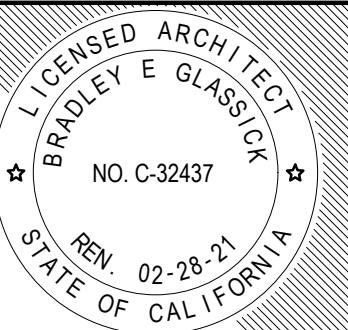
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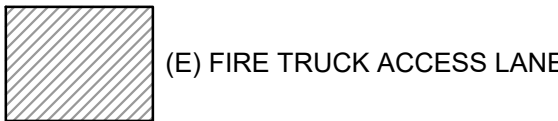


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Keynotes:

Legend:



Consultant:

Facility:
PALOMAR COLLEGE
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1140 W. MISSION ROAD, SAN MARCOS, CA 92069

Project:
PHASE 2A - AQUATICS IMPROVEMENTS

Sheet Title:
CAMPUS SITE PLAN

HEALTH DEPARTMENT SUBMITTAL

Date: 01/28/2021

Client Project No:

Sheet:

CAMPUS SITE PLAN

1

1" = 100'-0"

AGENCY
APPROVAL:



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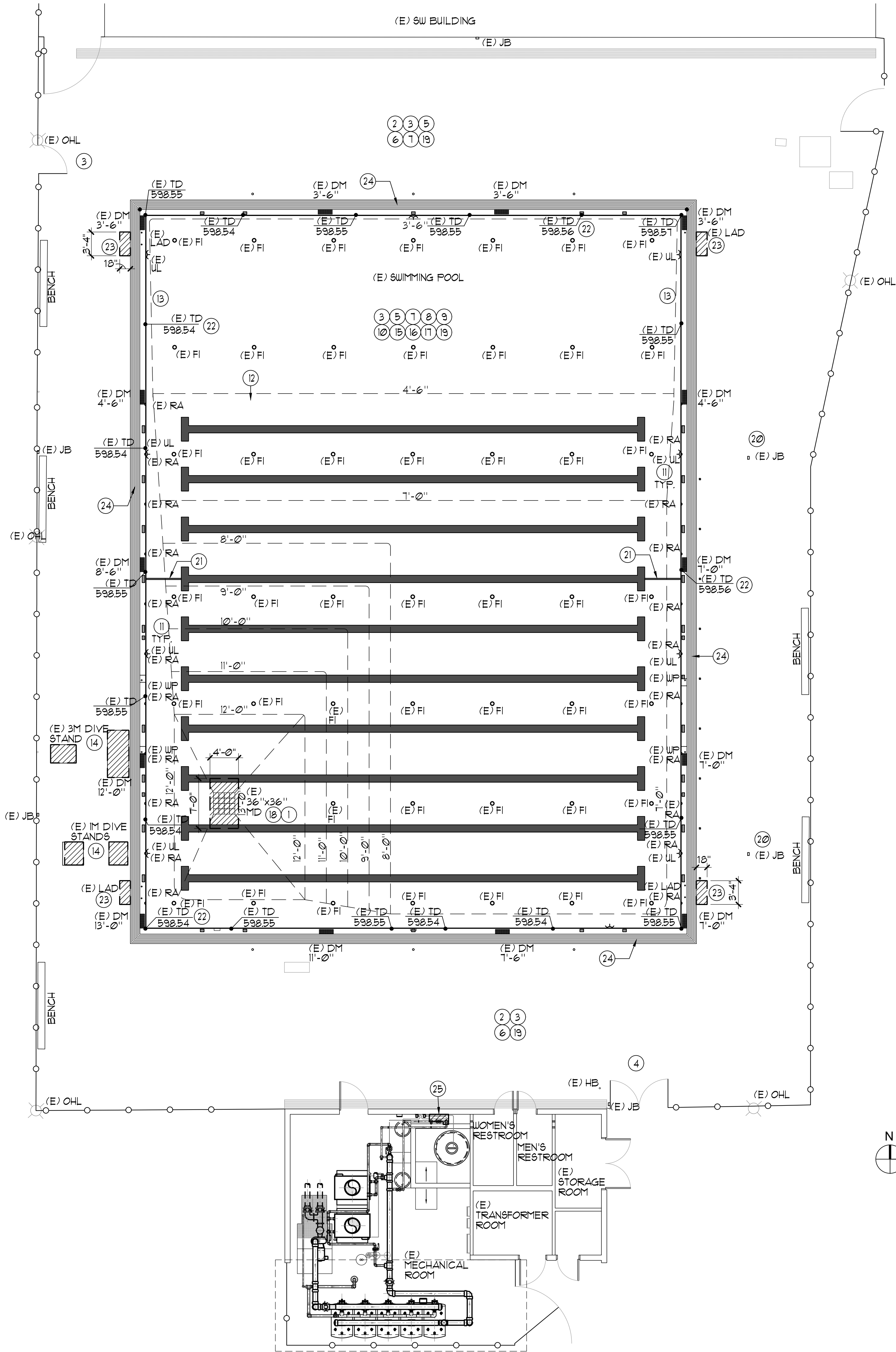
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EXISTING SWIMMING POOL DATA (BASED ON FIELD OBSERVATIONS)

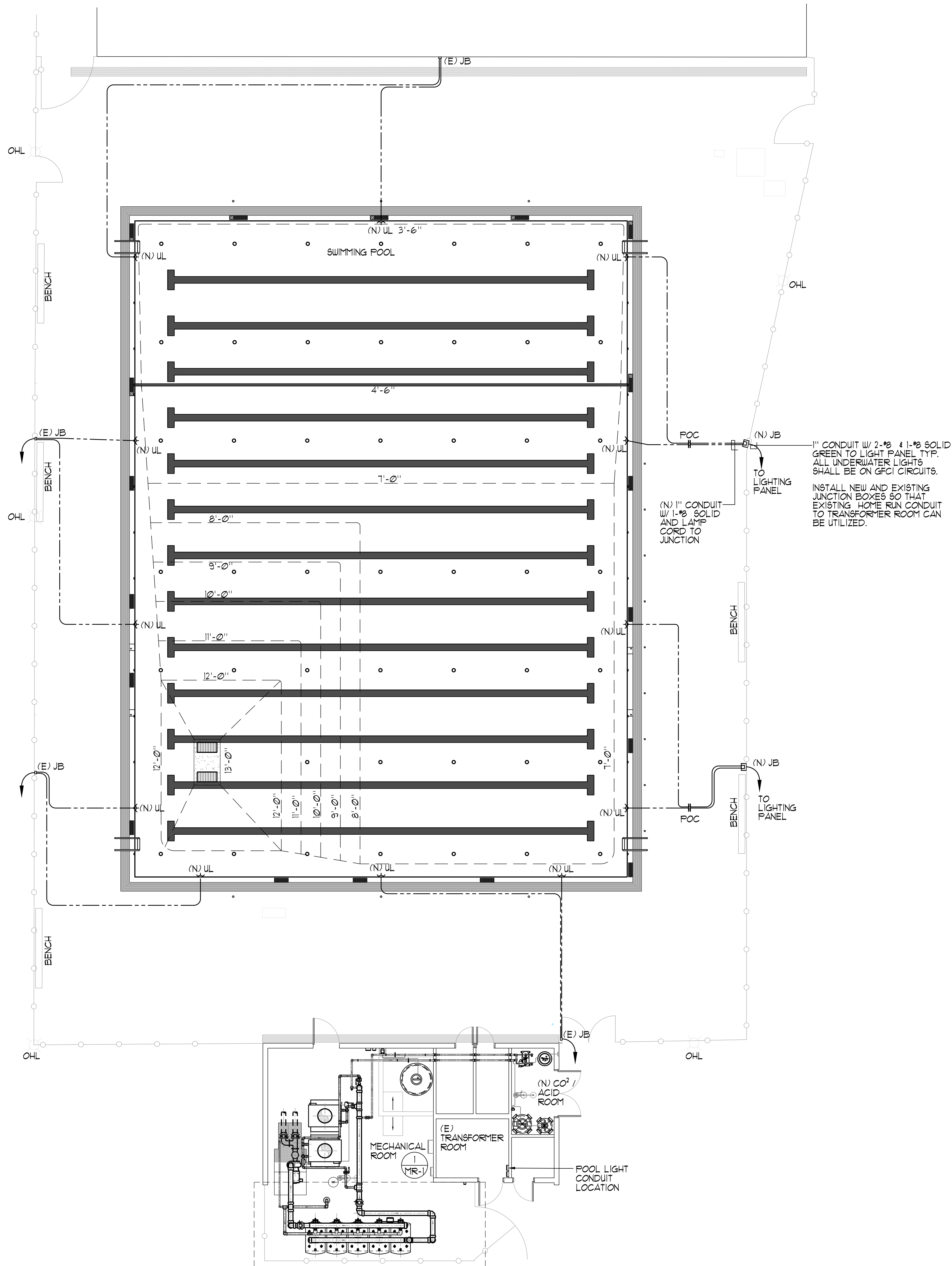
SURFACE AREA	=	1508 SQ. FT.
PERIMETER	=	350 FT.
DEPTHS	=	3'-6" TO 13'-0"
VOLUME	=	405,442 GAL.
6 HR TURNOVER	=	1/26 GPM

LEGEND

MD	=	MAIN DRAIN
FI	=	FLOOR INLET
UL	=	UNDERWATER LIGHT
DM	=	DEPTH MARKER
RA	=	ROPE ANCHOR
JB	=	JUNCTION BOX
LAD	=	LADDER ANCHORS
WP	=	WATER POLO GOAL ANCHORS
OHL	=	OVERHEAD LIGHT
TD	=	TOP OF DECK
(E)	=	EXISTING
(P)	=	PROPOSED
(Hatched Area)	=	LIMITS OF POOL FLOOR REMOVAL AS NOTED ON PLANS

DEMOLITION/CONSTRUCTION NOTES

- CARE IS TO BE TAKEN DURING POOL DRAIN DOWN, TO RELIEVE ANY HYDROSTATIC PRESSURE THROUGH EXISTING HYDROSTATIC RELIEF VALVES AND DRAINING THE POOL SLOWLY.
- 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.
- 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.
- COORDINATE INGRESS/EGRESS AND HAUL ROUTES WITH THE OWNER PRIOR TO START OF WORK.
- POOL PLAN VIEWS AND SECTIONS ARE SHOWN FOR CONTRACTOR INFORMATION AND ASSISTANCE. THE CONTRACTOR IS RESPONSIBLE FOR INDIVIDUAL SQUARE FOOTAGE TAKE-OFFS AND ESTIMATIONS WITH REGARD TO DEMOLITION. PREPARATION, AS WELL AS MEANS AND METHODS OF CONSTRUCTION, CONTRACTOR SHALL VISIT THE SITE AS REQUIRED TO ACCOMPLISH THE WORK, AND TO BECOME FAMILIAR WITH SCOPE AND SERVICES OF WORK REQUIRED.
- COORDINATE PROPOSED CONTRACTOR STAGING AREA WITH THE OWNER PRIOR TO CONSTRUCTION. PROVIDE TEMPORARY PHONE, TOILETS, FENCING, GATES, ETC. AS REQUIRED.
- REFER TO SHEET SP-1 FOR NEW POOL LAYOUT PLAN IN COORDINATION WITH CONTRACTOR FIELD LAYOUT AND EXISTING INFORMATIONAL PLANS.
- REMOVE EXISTING SWIMMING POOL LANE LINES AND END WALL TARGET TILE, BOND BEAM TILE, AND PLASTER FINISHES DOWN TO ORIGINAL SOUND CONCRETE/SHOTCRETE. REPLACE ANY DAMAGED TO MATCH EXISTING AND REGROUT. ANY CRACKS SHALL BE CHIPPED OUT TO A MINIMUM TO 3/4" X 3/4" AND THEN FILLED FLUSH WITH NON-SHRINK GROUT. ALL EXPOSED REBAR, RUST SPOTS, ETC. SHALL BE EXPOSED, BUSHED DOWN 1/4" BELOW FINISH SURFACE, ZINC COATED AND FILLED FLUSH WITH NON-SHRINK GROUT. OTHER IMPERFECTIONS IN THE POOL SHELL SHALL BE REPAIRED PRIOR TO INSTALLING TILE AND NEW WHITE PLASTER FINISH.
- REPLACE EXISTING POOL TILE INCLUDING ALL RACING LANE LINES, END WALL TARGETS, AND DEPTH MARKERS AS NOTED ON PLANS. DEPTH MARKERS SHALL BE LOCATED TO ALIGN WITH DECK DEPTH MARKERS 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.
- REPLACE ANY DAMAGED OR MISSING FLOOR INLET COVER PLATES, AND ANY DAMAGED INLETS COMPLETELY PER DETAIL AND SPECIFICATIONS.
- REMOVE AND REPLACE EXISTING POOL UNDERWATER LIGHTS WITH NEW LED PER PLANS. PULL NEW CORDS THROUGH EXISTING/NEW CONDUITS TO EXISTING/NEW JUNCTION BOXES (SEE NOTE 20). FIELD VERIFY CORD LENGTHS PRIOR TO ORDERING.
- ADD NEW 4'-6" WATER DEPTH TILE MARKER (4" LINE) ON POOL FLOOR/WALLS PER CODE WITH 'DAL-TILE' 'D311' BLACK.
- INSTALL EIGHT (8) NEW FLUSH CUP ROPE ANCHORS AND BOND PER CODE TO EXISTING POOL REBAR AS SHOWN ON SP-1 AND PER DETAIL T/SP-4. ALL EXISTING ROPE ANCHORS TO REMAIN UNLESS OTHERWISE NOTED. REPLACE MISSING ROPE ANCHORS WITH NEW FLUSH TYPE PER DETAIL.
- REMOVE EXISTING DIVE STANDS AND CONCRETE DIVE STAND PEDESTAL. REPLACE AND REPAIR DECK IN THOSE LOCATIONS FLUSH TO SURROUNDING DECK.
- THE CONTRACTOR SHALL INSURE THAT ALL SURFACES ARE PREPARED TO RECEIVE PLASTER FINISH. WEATHER CONDITIONS SHALL BECOME A CRITICAL PART OF WORK AND SHALL BE TAKEN INTO CONSIDERATION AT THE TIME OF PLASTER APPLICATION.
- THE CONTRACTOR SHALL PROVIDE A SUFFICIENT NUMBER OF WORKERS TO INSURE THAT THE ENTIRE POOL CAN BE PLASTERED IN A SINGLE DAY OR SHALL PROVIDE CONTINUAL MISTING OF PLASTERED SURFACES TO INSURE THAT PLASTER IS NOT EXPOSED TO THE AIR FOR A PERIOD OF TIME WHICH WOULD CAUSE DAMAGE IN ANY WAY.
- 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 BLOWN-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 THEIR EFFORTS WITH OWNERS STAFF TO PROVIDE INSTRUCTION AND TRAINING IN PROPER OPERATION OF POOL IN CONJUNCTION WITH NEW PLASTER SURFACES.
- THE CONTRACTOR SHALL SAWCUT AND REMOVE POOL FLOOR AS REQUIRED TO REMOVE EXISTING 36"x36" MAIN DRAIN GRATE AND SUMP, AND INSTALL TWO (2) NEW 18" X 36" MAIN DRAIN SUMPS, FRAMES AND APPROVED GRATES. THE CONTRACTOR SHALL PROVIDE VGBA CERTIFICATION TO THE OWNER AND HEALTH DEPARTMENT. ALL PIPING SHALL BE HYDRAULICALLY BALANCED.
- 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, AS FACING 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.
- THE CONTRACTOR SHALL REMOVE TWO (2) EXISTING JUNCTION BOXES LOCATED IN THE DECK AND INSTALL NEW JUNCTION BOXES AS SHOWN ON SP-2 AT PERIMETER FENCE. CONTRACTOR TO LOCATE NEW AND EXISTING JUNCTION BOXES SO THAT EXISTING HOME RUN CONDUITS TO TRANSFORMER ROOM CAN BE USED FOR NEW UNDERWATER POOL LIGHT SYSTEM.
- CONTRACTOR SHALL FIELD VERIFY IF EXPANSION JOINT EXISTS AND MAKE ANY NECESSARY REPAIRS PRIOR TO REPLASTER.
- CONTRACTOR SHALL LEVEL GUTTER TO MEDIAN SURVEY HEIGHT AT 598.55' TO CREATE A LEVEL GUTTER LOOP SURFACE TO HAVE EVEN FLOW OVER ENTIRE PERIMETER OF POOL.
- CONTRACTOR SHALL REMOVE EXISTING LADDER ANCHORS AND INSTALL FOUR (4) NEW LADDERS AND ANCHORS ON DECK AS SHOWN ON SP-1.
- CLEAN, REPAIR AND WATERPROOF EXISTING POOL GUTTER(S) PER SPECIFICATIONS.
- REMOVE PORTION OF CHEMICAL LOOP PIPING AND PROVIDE NEW PIPING LOOP AS SHOWN ON MR-1.



LEGEND

- UL = UNDERWATER LIGHT
JB = JUNCTION BOX
OHL = OVERHEAD LIGHT
(N) = NEW
(E) = EXISTING

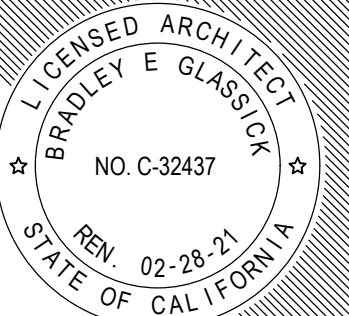
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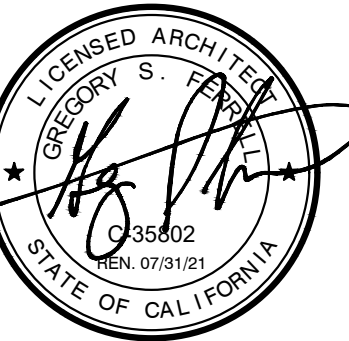
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Project:
PHASE 2A - AQUATICS IMPROVEMENTS

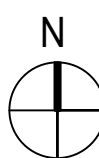
Sheet Title:
SWIMMING POOL LAYOUT

Date: 03/22/2021

Client Project No:

Sheet:

SP-2

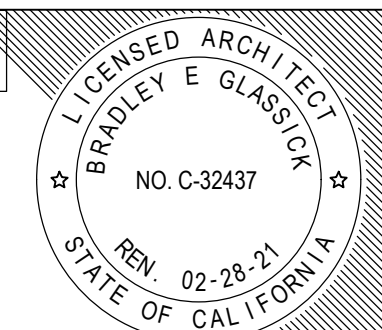


UNDERWATER LIGHT LAYOUT PLAN

1/8"=1'-0"



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1	HEALTH DEPT.	5/5/2

Keynotes:



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|---|----------------------------------|----------|
| 6 | INTERNATIONAL 'NO DIVING' MARKER | 3"=1'-0" |
|---|----------------------------------|----------|



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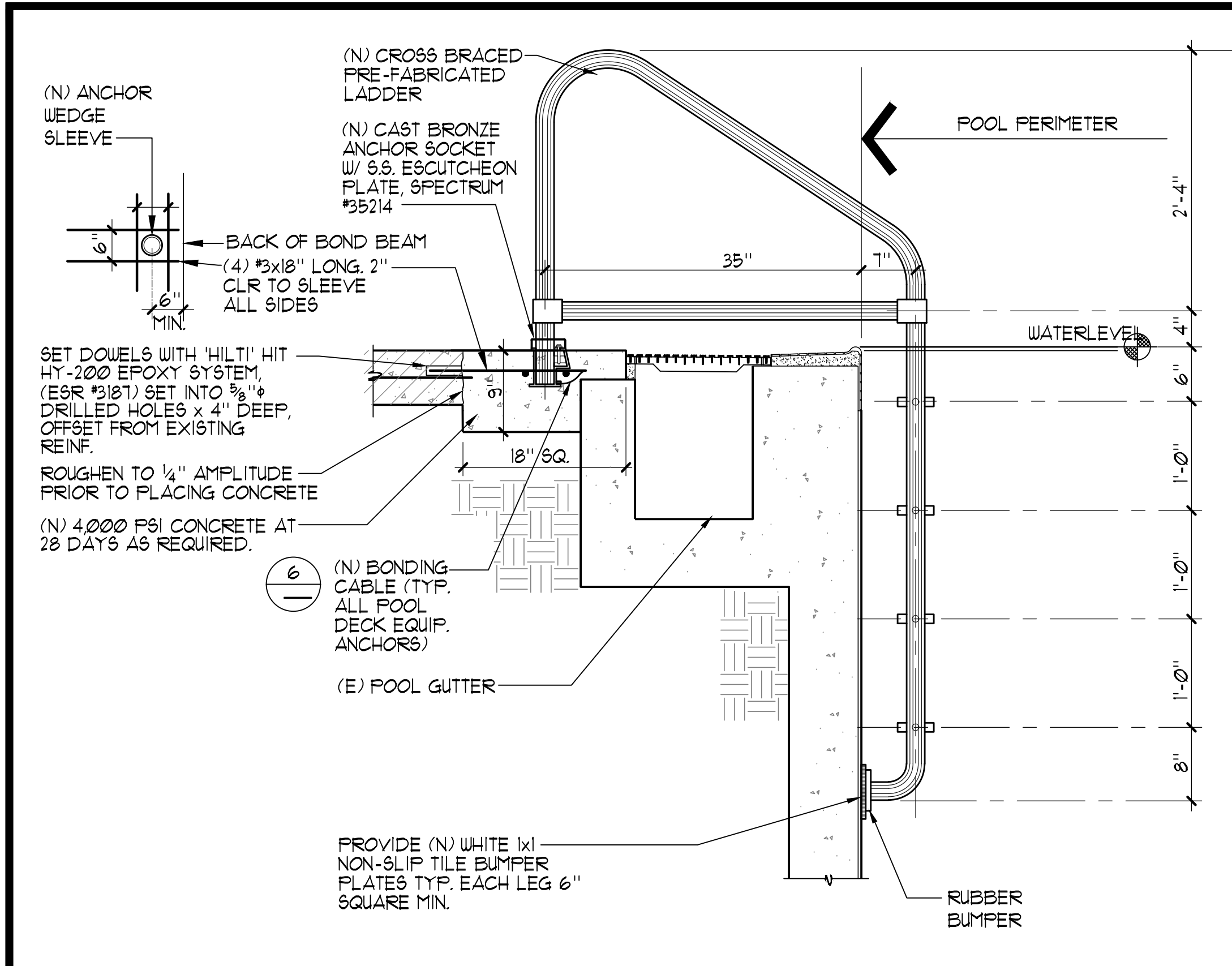
DETAILS

Date: 03/22/2021

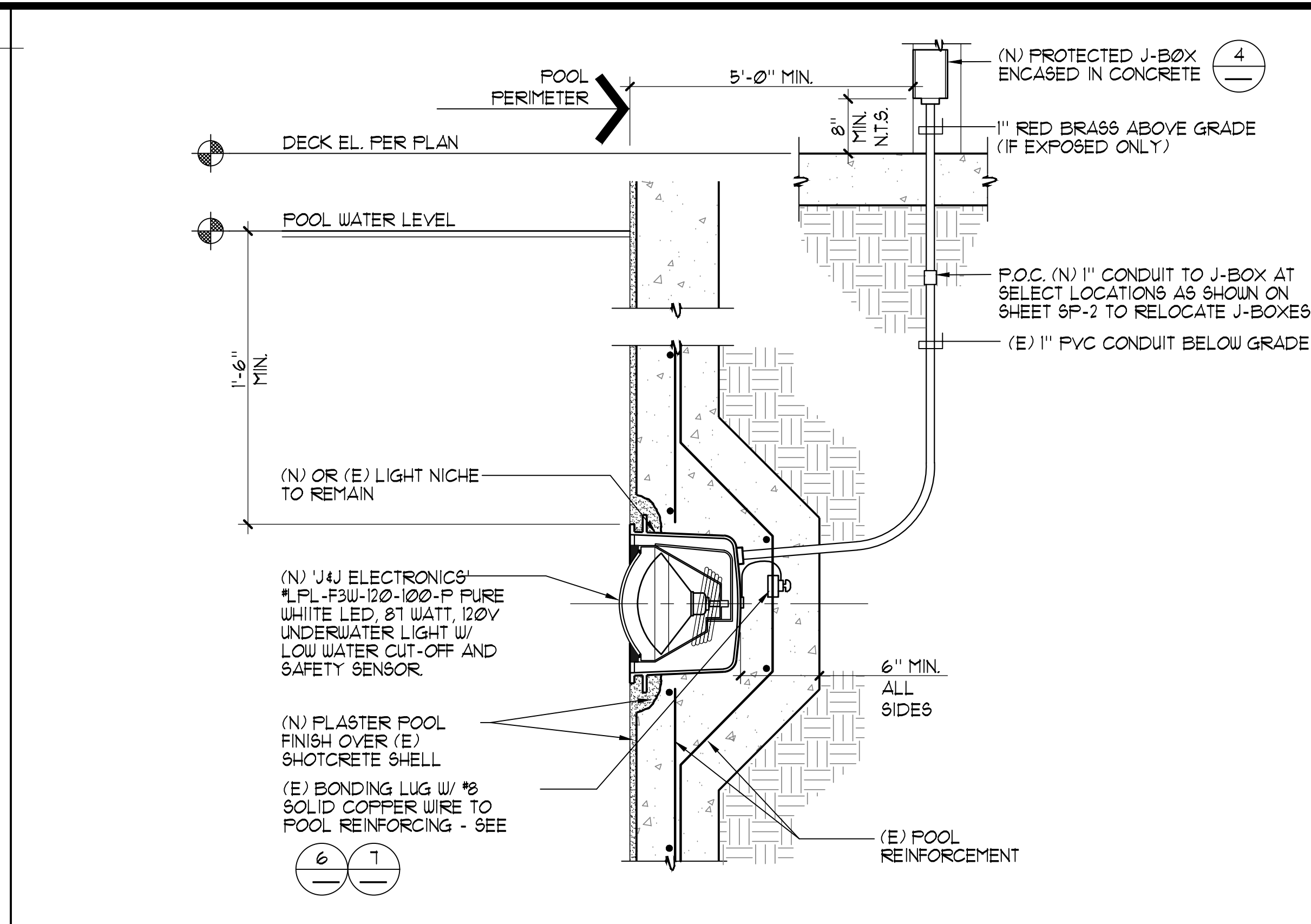
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Sheet:

SP-4

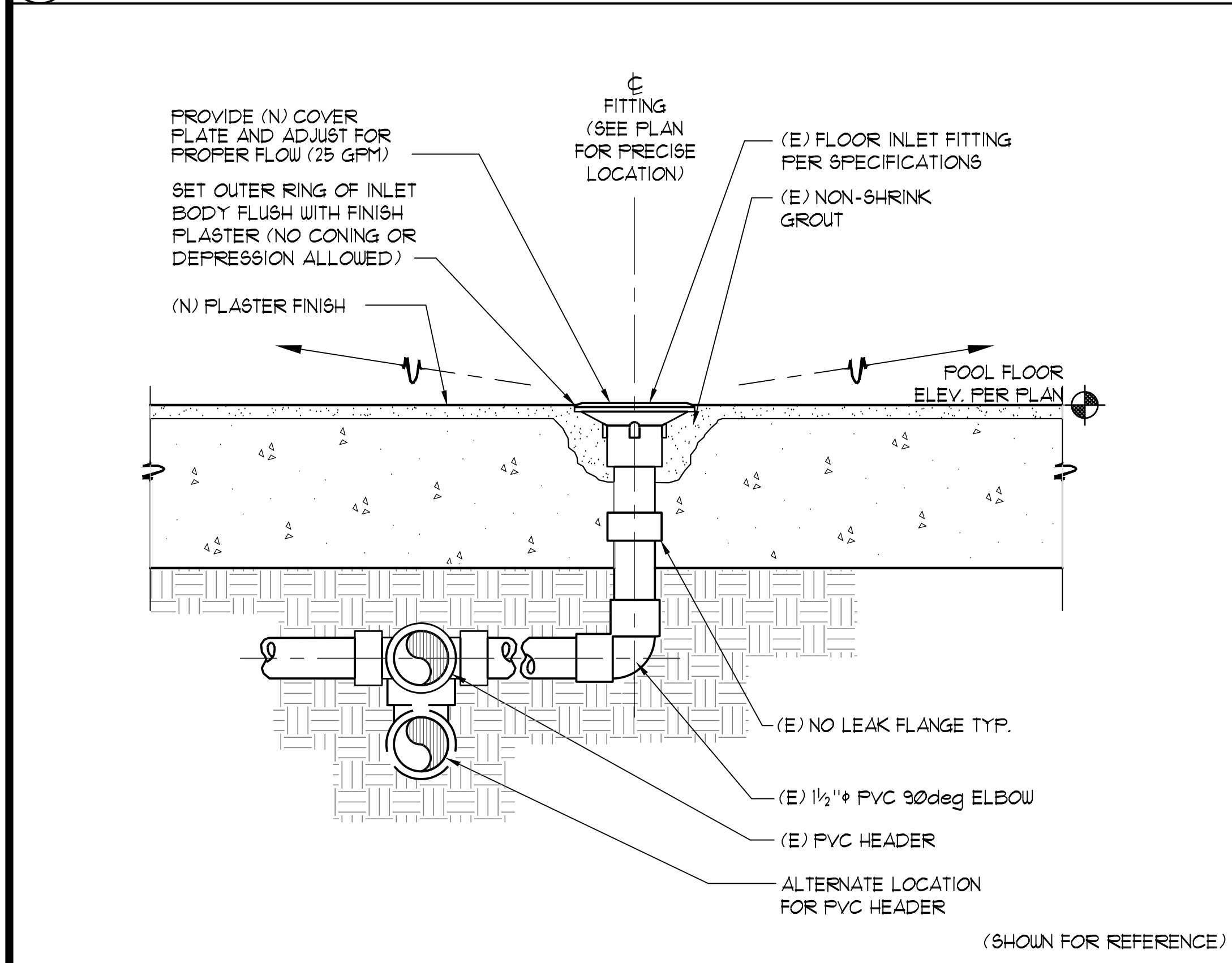


1 POOL LADDER 1"=1'-0"

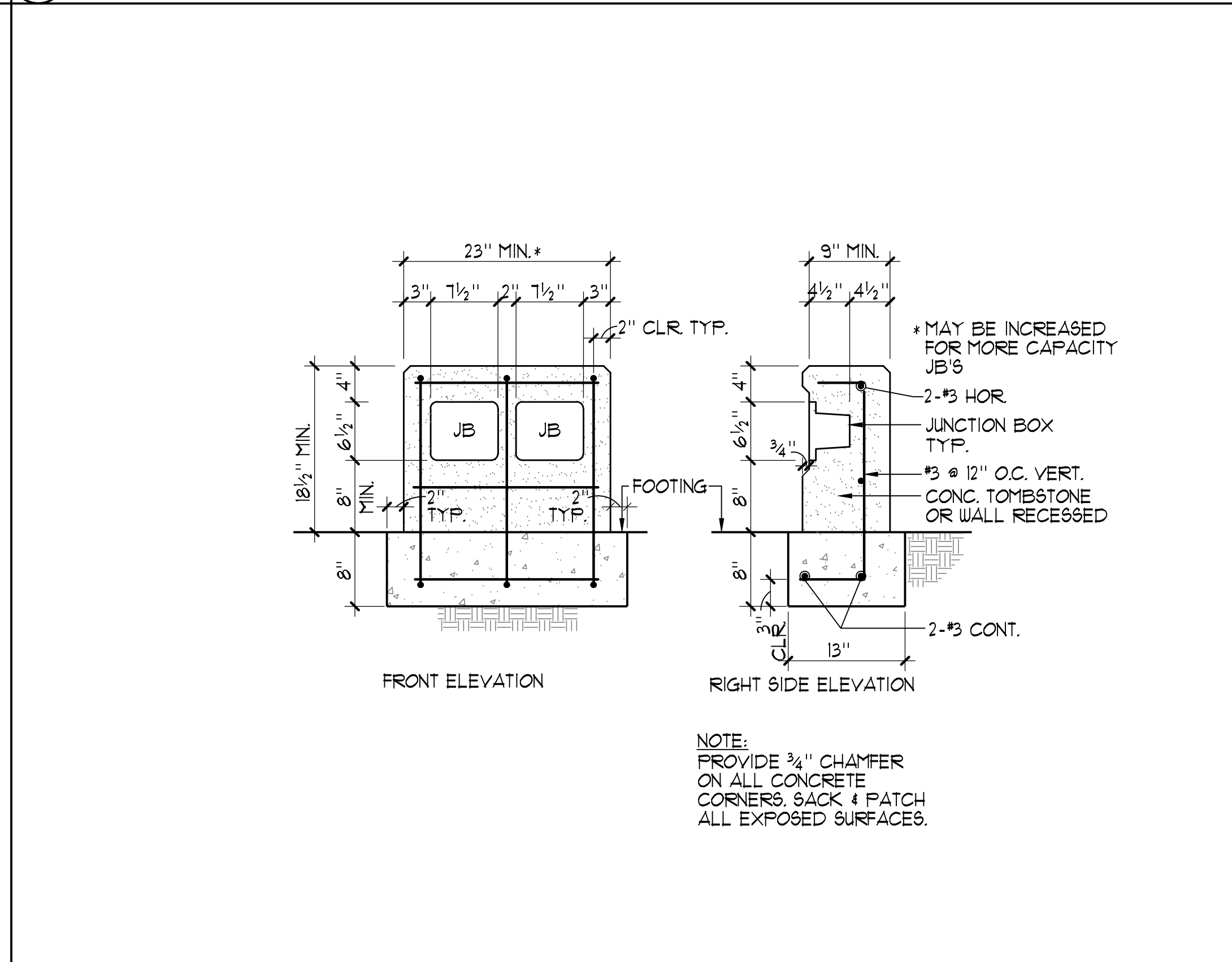


2 UNDERWATER LED LIGHT 1/2"=1'-0"

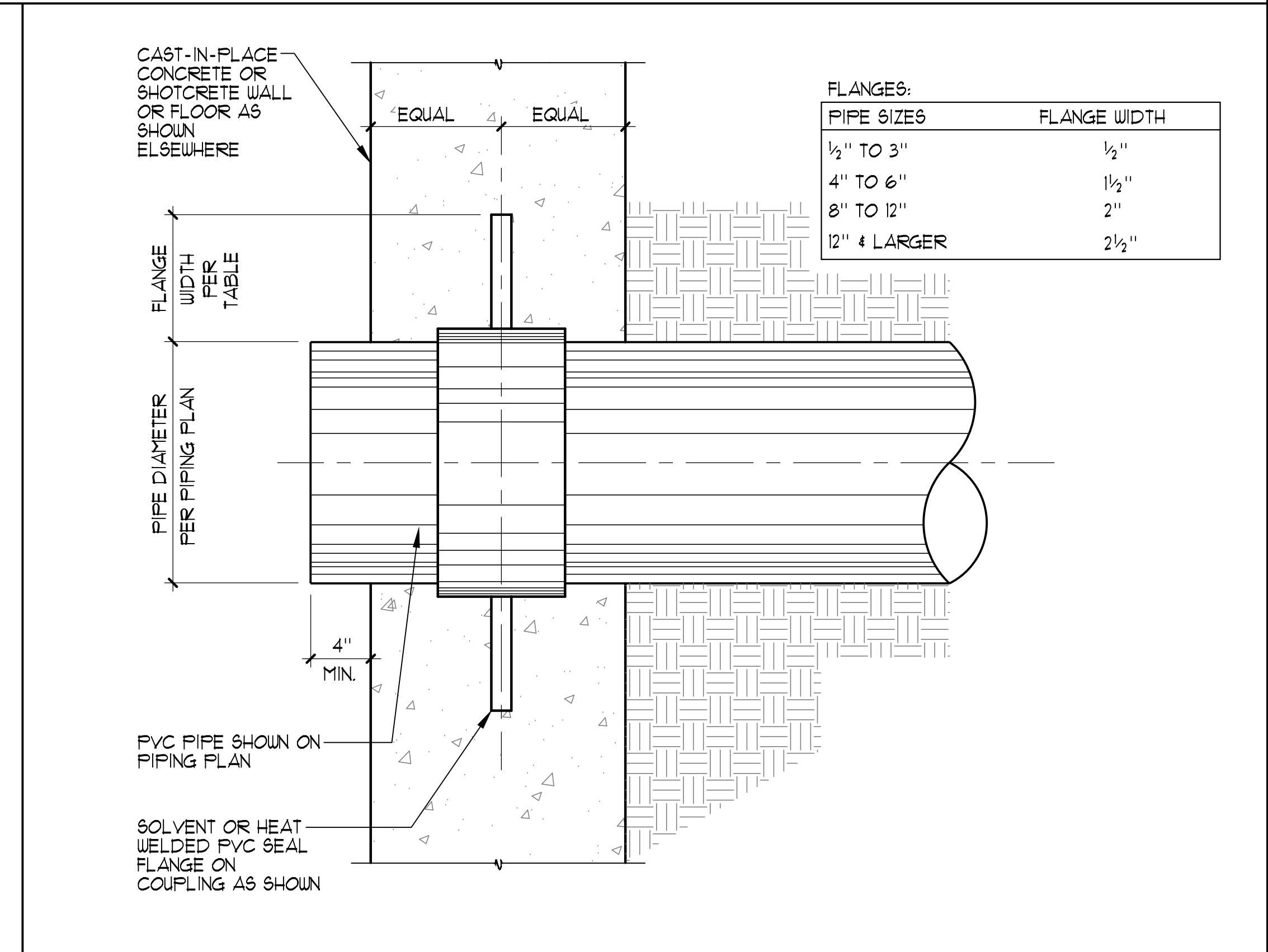
- UNDERWATER LIGHT NOTES:**
- ALL CONDUITS IN POOL LIGHTING SYSTEM TO BE A MINIMUM OF 1".
 - CONDUCTORS TO POOL J-BOXES SHALL BE MINIMUM 2-#8 & #8 (SEE UNDERWATER LIGHT PLAN) SOLID UNBROKEN TO MAIN PANEL. ISOLATED GROUND BUSES. THIS BUSS IS TO BE CONNECTED WITH SOLID INSULATED #8 COPPER WIRE TO UFER & EQUIP. GROUNDING LUG ON GROUNDING BUSS. UPSIZE CONDUCTORS AS REQUIRED FOR HOMERUNS EXCEEDING 100'.
 - ALL BRASS POOL J-BOXES SHALL BE FLUSH MOUNTED IN WALLS. IF FLUSH MOUNTING IS NOT POSSIBLE THEN MOUNTING SHALL BE SURFACE MOUNTED AND CONCRETE ENCASED.
 - CONDUITS WHERE ALLOWED BY CODE SHALL BE PVC (POLYVINYL CHLORIDE). FROM WET NICHES TO BRASS J-BOXES TO LIGHTING PANEL. ALL CONDUITS IN FREE AIR SPACE AND ALL RISERS SHALL BE RED BRASS TYPICAL. PVC CONDUITS SHALL BE SOLVENT WELDED WITH P-10 PURPLE PRIMER AND 211 GRAY HEAVY BODIED GLUE.
 - LIGHTING CONTACTORS SHALL BE "ALLEN-BRADLEY" #500 L+ OR EQUAL MOUNTED IN A NEMA 12 HINGED COVER - LOCKABLE ENCLOSURE. CONTACTORS TO BE SWITCHED BY MOMENTARY SWITCH EQUAL TO "HUBBELL" #1551 MOUNTED IN J-BOX IN MECHANICAL EQUIPMENT ROOM. PROVIDE REMOTE UNDERWATER LIGHT SWITCH IN POOL BUILDING CONTROL ROOM.
 - BRASS POOL J-BOXES SHALL BE "HYDREL" #119 & 1/11" HUBS OR EQUAL. (NO DIE CAST BOXES).
 - STRINGS SHALL BE PULLED IN ALL CONDUITS PRIOR TO PLACEMENT OF CONCRETE.
 - LOCAL, COUNTY OR CITY CODES SHALL BE ADHERED TO. SPECIFICATIONS TO BE IN ACCORDANCE WITH SECTION 680 OF LATEST N.E.C. BOOK.
 - PROVIDE FULL BOXES AS MAY BE REQUIRED FOR RUNS EXCEEDING 150 FT. OR DUE TO CHANGES IN GRADE OR DIRECTION.
 - CONTRACTOR SHALL TEST UNDERWATER POOL LIGHT GFCI CIRCUITS AND PROVIDE LETTER TO ARCHITECT AND OWNER UPON SUCCESSFUL TEST.
 - SEAL CONDUIT OPENING IN LIGHT NICHE WITH SILICON CAULKING AFTER LIGHT IS INSTALLED.
 - PRIOR TO LIGHT INSTALLATION, PROVIDE MINIMUM 10 PSI PRESSURE TEST ON ALL POOL LIGHT CONDUITS FOR FOUR (4) HOURS OBSERVED BY INSPECTOR OF RECORD. MAINTAIN PRESSURE UNTIL ALL DECKS ARE POURED.



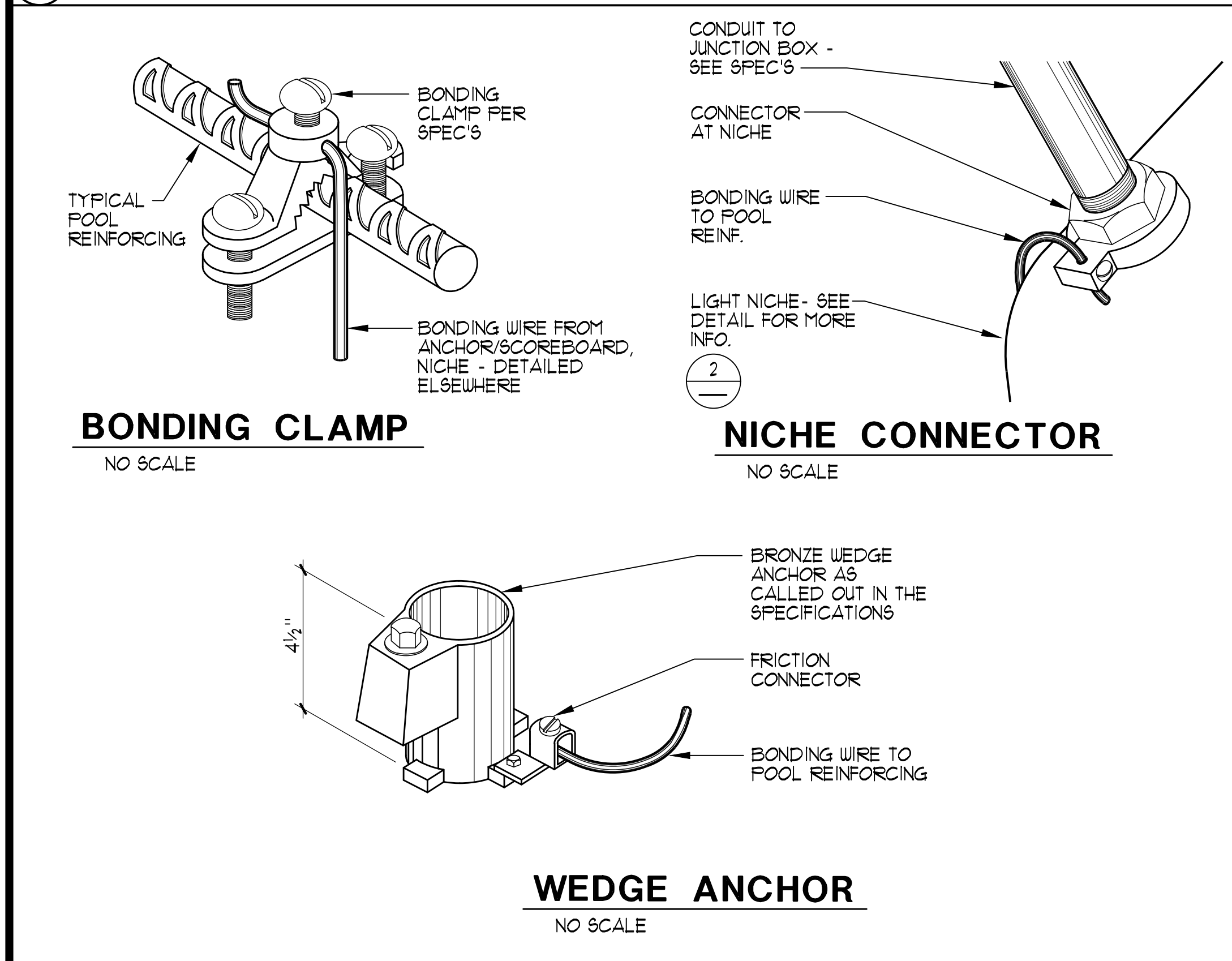
3 (E) FLOOR INLET 3'-1'-0"



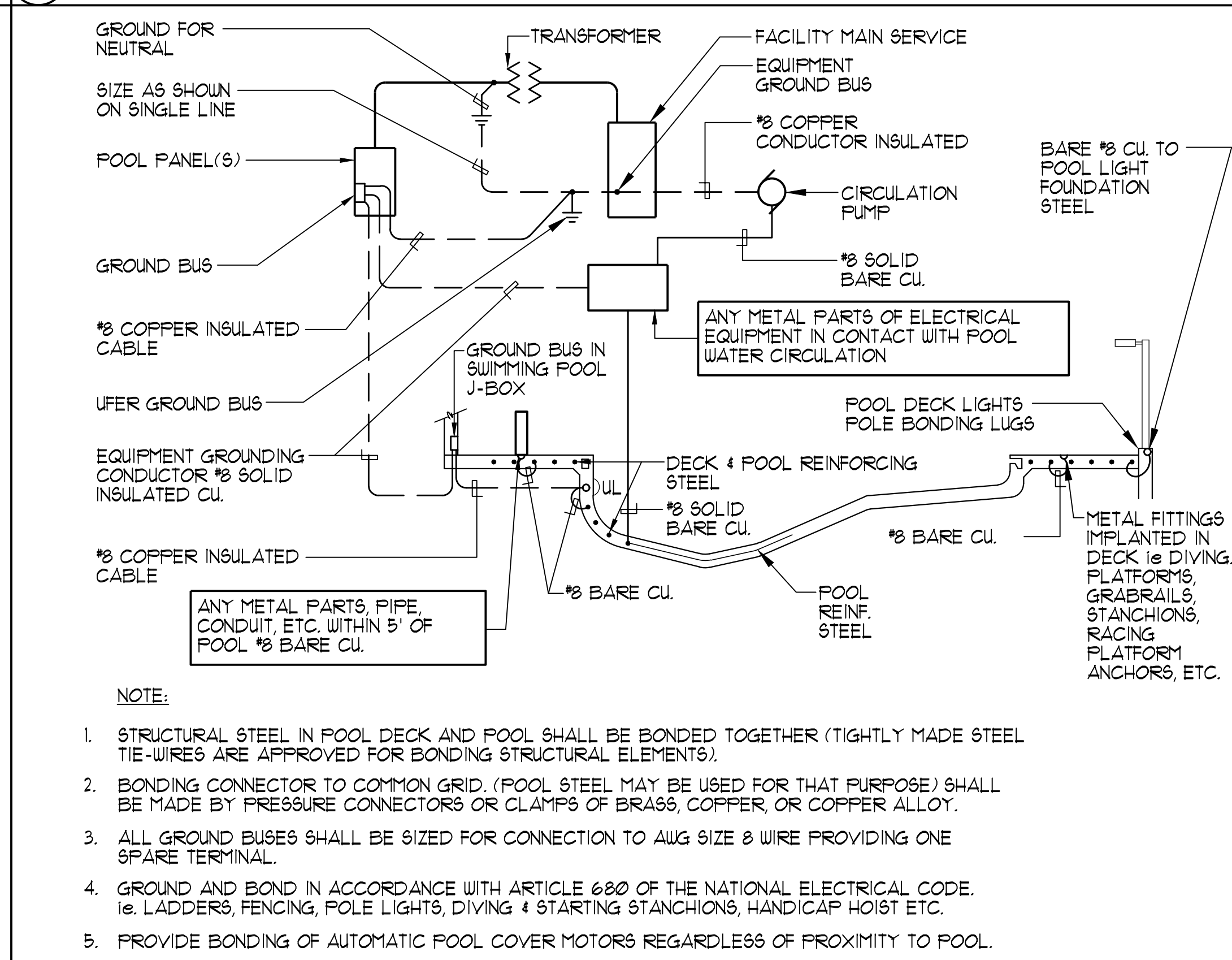
4 JUNCTION BOX CONCRETE SURROUND DETAIL 1"=1'-0"



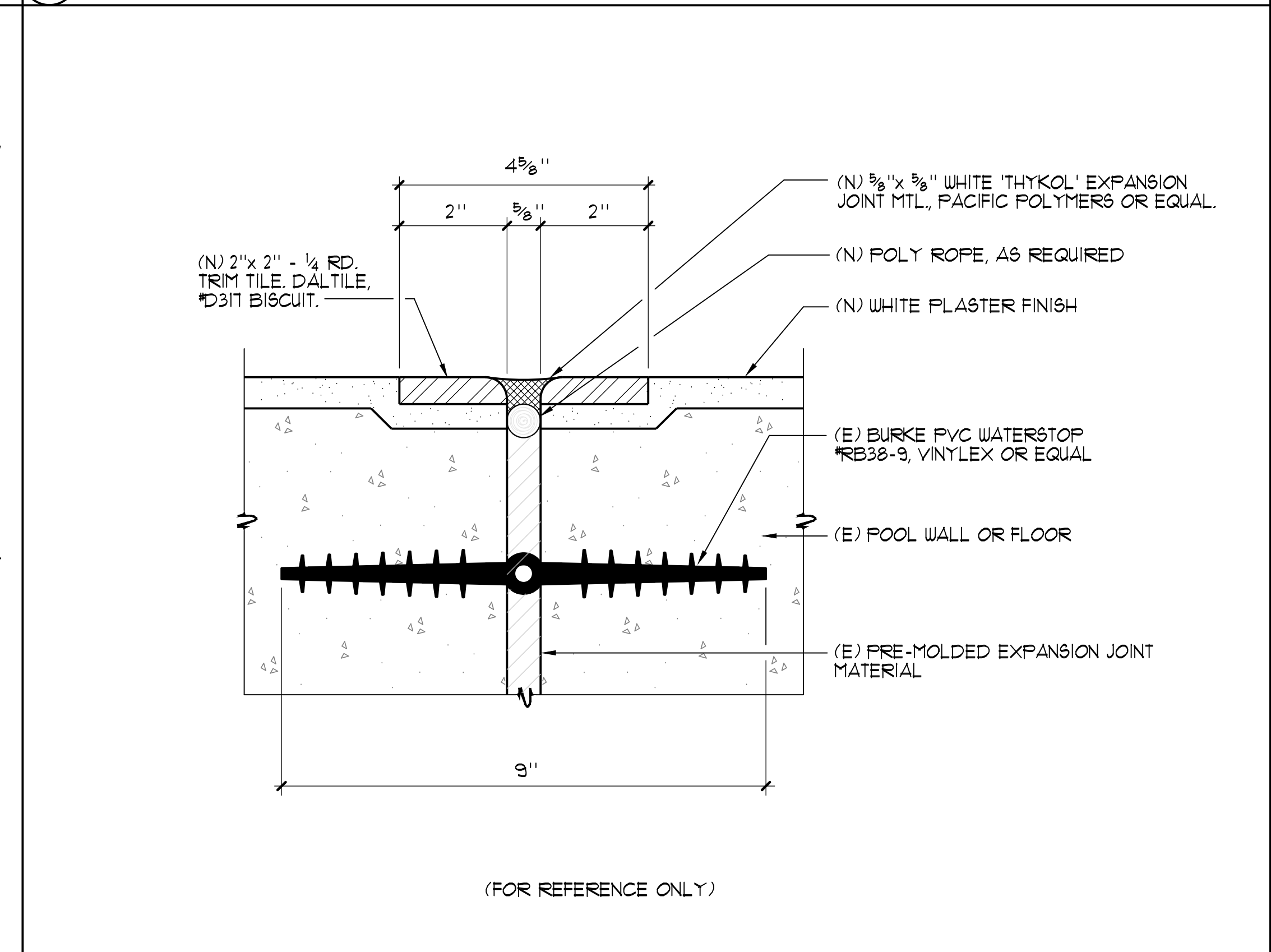
5 WATER STOP DETAIL NO SCALE



6 BONDING DETAILS AS NOTED



7 TYPICAL POOL BONDING AND GROUND DETAIL NO SCALE



8 (E) EXPANSION JOINT 1/2"=1'-0"

AGENCY
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Project:
PHASE 2A - AQUATICS IMPROVEMENTS

Sheet Title:

DETAILS

Date: 03/22/2021

Client Project No:

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SP-5

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Project:
PHASE 2A - AQUATICS IMPROVEMENTS

Sheet Title:
DETAILS

Date: 03/22/2021 Client Project No:

Sheet:

SP-6

NOTES:

1. 'SR SMITH' PAL HI-LO #350-0000 (350 lb. MAX. LIFTING CAPACITY)
2. CONTRACTOR SHALL PROVIDE COVER FOR LIFT 'SR SMITH' #320-5000T; AND EXTRA BATTERY PACK 'SR SMITH' #0001435.
3. 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)
4. 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)
5. 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)
6. THE SEAT SHALL BE RIGID AND SHALL HAVE A BACK SUPPORT THAT IS AT LEAST 12" TALL. 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. THE SEAT SHALL HAVE A RESTRAINT FOR THE USE OF THE OCCUPANT WITH OPERABLE PARTS COMPLYING WITH SECTION 11B-309. (CBC SECTION 11B-1009.2.4)
7. THE SEAT SHALL BE 16" WIDE MINIMUM. (CBC SECTION 11B-1009.2.5)
8. 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)
9. 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)
10. 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)
11. SINGLE PERSON POOL LIFTS SHALL HAVE WEIGHT CAPACITY OF 300 POUNDS MIN. AND BE CAPABLE OF SUSTAINING A STATIC LOAD OF AT LEAST ONE AND A HALF TIME THE RATED LOAD. (CBC SECTION 11B-1009.2.9)

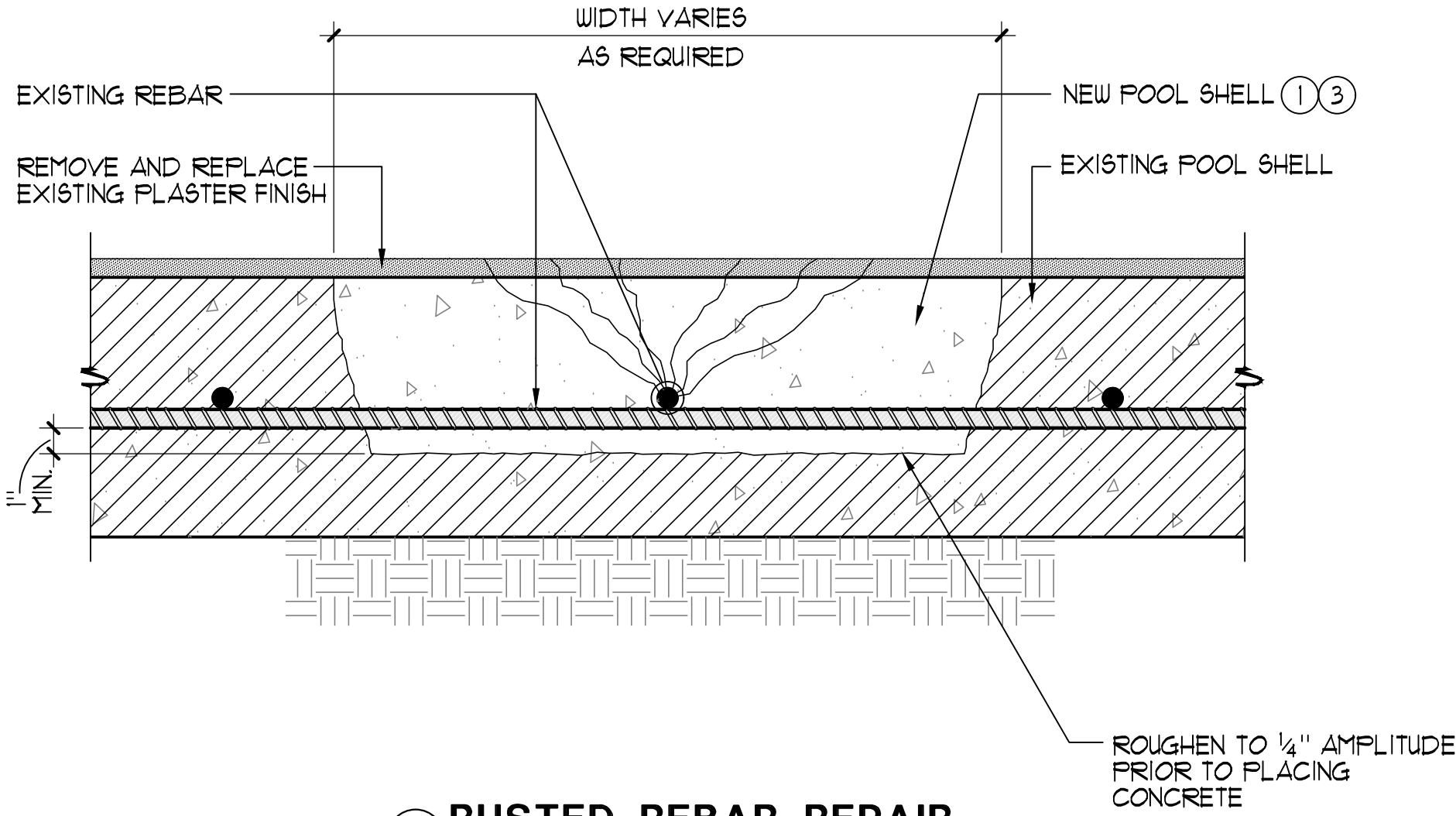
2

PORTABLE ACCESSIBLE LIFT

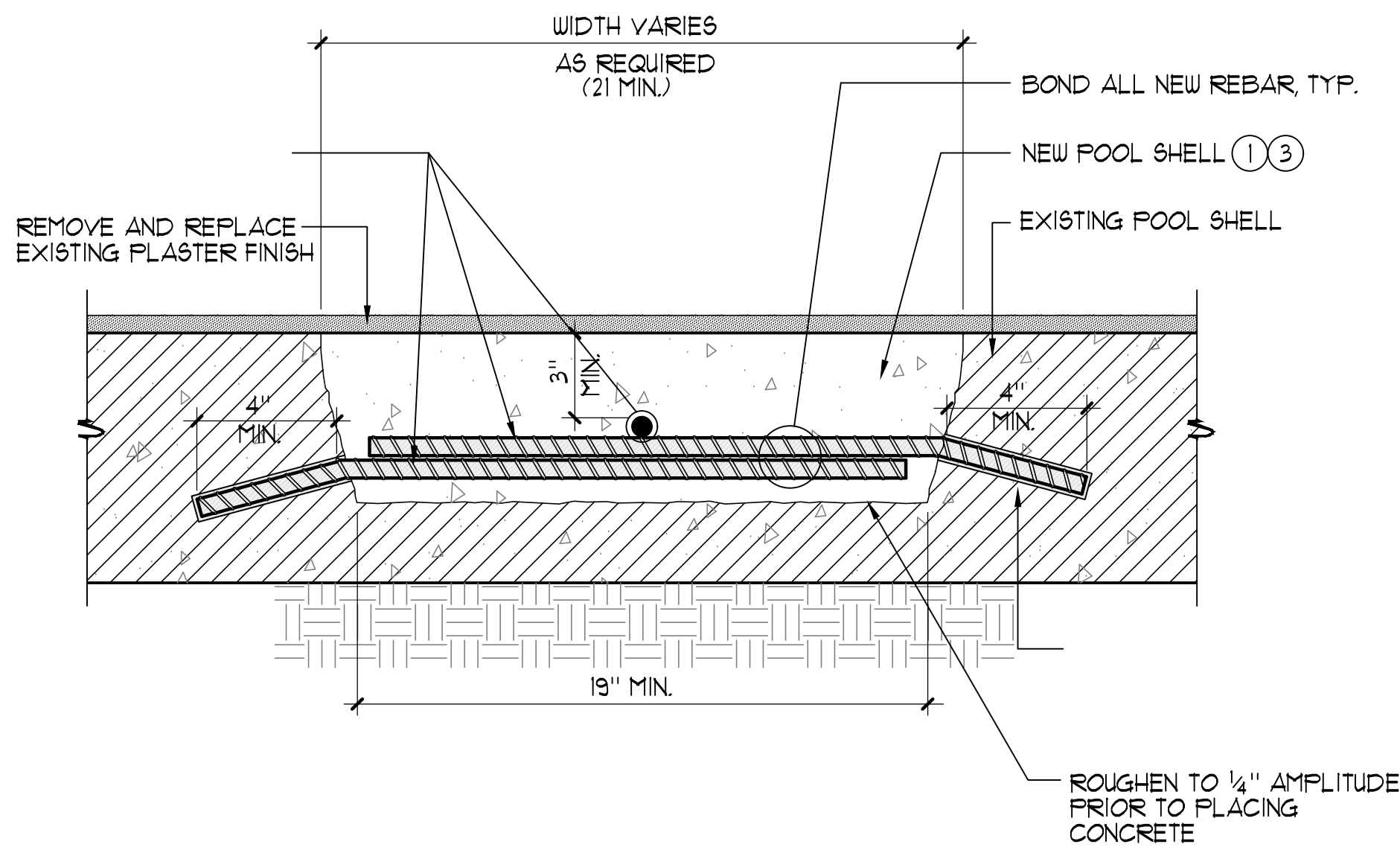
1/2" = 1'-0"

NOTES:

1. CHIP OUT AND REMOVE CONCRETE IN DESIGNATED REPAIR AREAS TO EXPOSE REBAR. PROVIDE 1" MIN. CLEARANCE UNDER THE REBAR.
2. SANDBLAST AND CLEAN EXPOSED REBAR TO REMOVE RUST/LAITANCE. PAINT REBAR WITH ZINC RICH GALVANIZING COMPOUND PAINT.
3. PLACE HIGH STRENGTH NON-SHRINK GROUT TO RESTORE POOL SHELL TO ORIGINAL SURFACE LEVEL. ANY OTHER IMPERFECTIONS IN THE POOL SHELL SHALL BE REPAIRED PRIOR TO INSTALLING A NEW PLASTER FINISH.
4. IF REBAR IS UNABLE TO BE SALVAGED, CLEANLY CUT OUT DAMAGED REBAR AND PROVIDE REPLACEMENT REBAR TO MATCH MATERIAL AND SIZE OF EXISTING REBAR.



A RUSTED REBAR REPAIR



B COMPROMISED REBAR REPLACEMENT

1

REBAR REPAIR / REPLACEMENT DETAILS

3" = 1'-0"

EQUIPMENT LIST

- 1-3
MR-2

1-8
MR-2
- 1
- REMOVE AND RELOCATE EXISTING ACID TANKS, AND SPILL CONTAINMENT PALLETS TO NEW STORAGE ROOM AS SHOWN ON PLAN BELOW. PROVIDE (N) 60 GALLON ACID VAPOR RECOVERY SYSTEM. REMOVE EXISTING FEED PUMPS. NEW CHLORINE FEED PUMPS SHALL BE 1"1" 5D43-88P-KS1, 288 GPD @ 15 PSI WITH FRP SHELF BRACKET, ONE (1) TOTAL.
- 4-6
MR-2

1-8
MR-2
- 2
- NEW CARBON DIOXIDE STORAGE FEED SYSTEM: PROVIDE ONE (1) NOVO-600', 600lb. CRYOGENIC LIQUID CO2 STORAGE TANK WITH REMOTE FILL PORT, 594 LIQUID lbs., (5.195 CUBIC FEET OF GASEOUS CO2 AT NTP) ONE (1) TOTAL. PROVIDE EKO PH-MTS CO2 HIGH EFFICIENCY FEED SYSTEM WITH ALKALINITY CONTROL, 0 TO 160 SCFH FEED CAPACITY BOOSTER PUMP, PIPING INJECTOR, FLOWMETER, RELAYS AND ACID FEED ALKALINITY CONTROL. ONE (1) SYSTEM TOTAL (92lbs. EA.) PROVIDE HARD WIRED CO2 DETECTOR 'ANALOX SENSOR TECHNOLOGY' MODEL 'API KIT SENSOR AND STROBE UNITS 120V HARD WIRED W/ STROBE LIGHT AND AUDIBLE ALARM. SENSOR MOUNTED 18 INCHES AFF. AND ALARM LEVEL BETWEEN 10-16 INCHES AND WITHIN VISIBLE EYESIGHT OF DOOR TO BE SET TO DETECT CO2 GAS IN LEVELS IN EXCESS OF THE FEL. ONE (1) TOTAL.
- 9
MR-2
- 3
- EXISTING WATER CHEMISTRY CONTROLLER: AN EXISTING 'STANTROL' SYSTEM 3 WATER CHEMISTRY CONTROLLER IS IN PLACE. PROVIDE NEW INTERCONNECTS WITH CONTROLLER FOR NEW EQUIPMENT AS REQUIRED PER MANUFACTURERS RECOMMENDATION. FACTORY CALIBRATE CONTROLLER AFTER ALL NEW WORK TO VERIFY PROPER OPERATION AND TO MAINTAIN PRODUCT WARRANTY.
- 4
- ELECTRICAL: EXISTING 120/208 3PH 4W PANEL IN MECHANICAL ROOM FOR UNDERWATER LIGHTS AND MISC. POOL EQUIPMENT. UTILIZE EXISTING CIRCUITS OR SPARES FOR NEW EQUIPMENT AS REQUIRED. PROVIDE ALL INTERCONNECTIONS FOR A COMPLETELY OPERATIONAL SYSTEM. COORDINATE/INTERFACE AND WORK WITH OTHER TRADES.
- 3
MR-4
- 5
- NEW EYEWASH/SHOWER: 'HAWES' AXION MODEL #300-8309CRP BARRIER FREE COMBINATION SHOWER AND EYE/FACE WASH WITH CORROSION RESISTANT PROTECTION. 1/4" SUPPLY/WASTE CONNECTIONS. FIELD SOURCE SUPPLY FROM EXISTING POTABLE WATER PIPING. ONE (1) TOTAL.
- 6
- NEW CIRCULATION PUMP CONTROL: PROVIDE NEW 'ABB' VARIABLE FREQUENCY DRIVE CIRCULATION PUMP CONTROL, 208V, 3PH. CONTRACTOR TO VERIFY PUMP HORSEPOWER AND COORDINATE VFD SIZING.
- 1
- NEW POOL LIGHT CONTACTOR PANEL & TIME CLOCK: PROVIDE NEW POOL LIGHT CONTACTOR PANEL AND TIME CLOCK. PROVIDE REMOTE ON/OFF OVERRIDE SWITCH IN MECHANICAL ROOM.

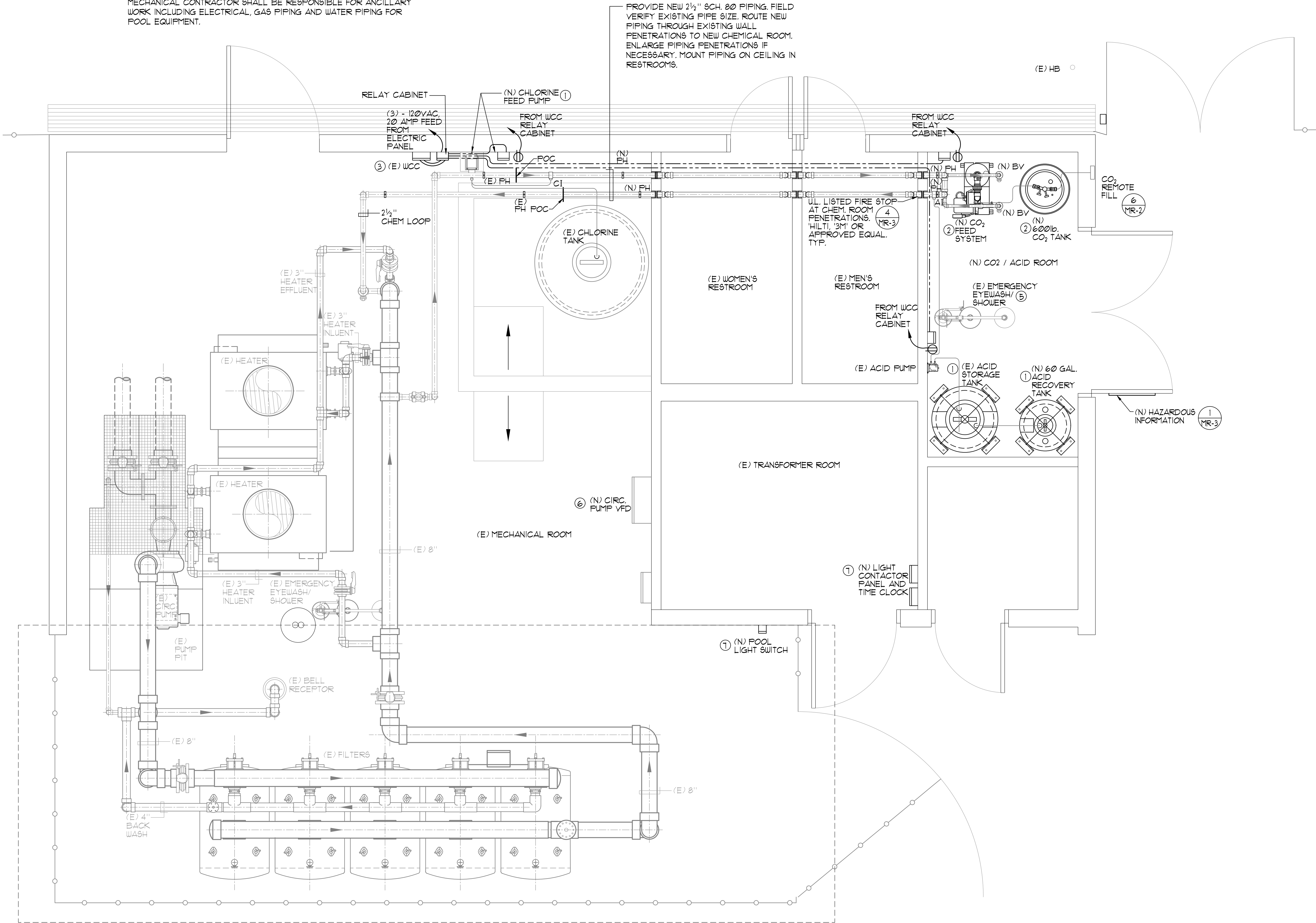
NOTE:
MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANCILLARY WORK INCLUDING ELECTRICAL, GAS PIPING AND WATER PIPING FOR POOL EQUIPMENT.

LEGEND

CV	=	CHECK VALVE
BV	=	BALL VALVE
BFV	=	BUTTERFLY VALVE
FM	=	FLOWMETER
PH	=	PIPE HANGER
POC	=	POINT OF CONNECTION
CI	=	CHLORINE INJECTION
AI	=	ACID INJECTION
CO2	=	CARBON DIOXIDE
(E)	=	EXISTING
(N)	=	NEW

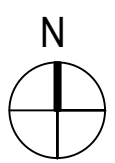
EXISTING CIRC PUMP DATA

'PACO' PUMP RATED AT 1135 GPM AT 60 FT TDH, AT 1760 RPM, 25 HP, 460V 3PH. ONE (1) TOTAL. (760 lbs)



MECHANICAL ROOM LAYOUT PLAN

1/2"=1'-0"



AGENCY
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Consultant:



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Project:
PHASE 2A - AQUATICS IMPROVEMENTS

Sheet Title:
MECHANICAL ROOM
LAYOUT PLAN

Date: 03/22/2021 Client Project No:
Sheet:

MR-1

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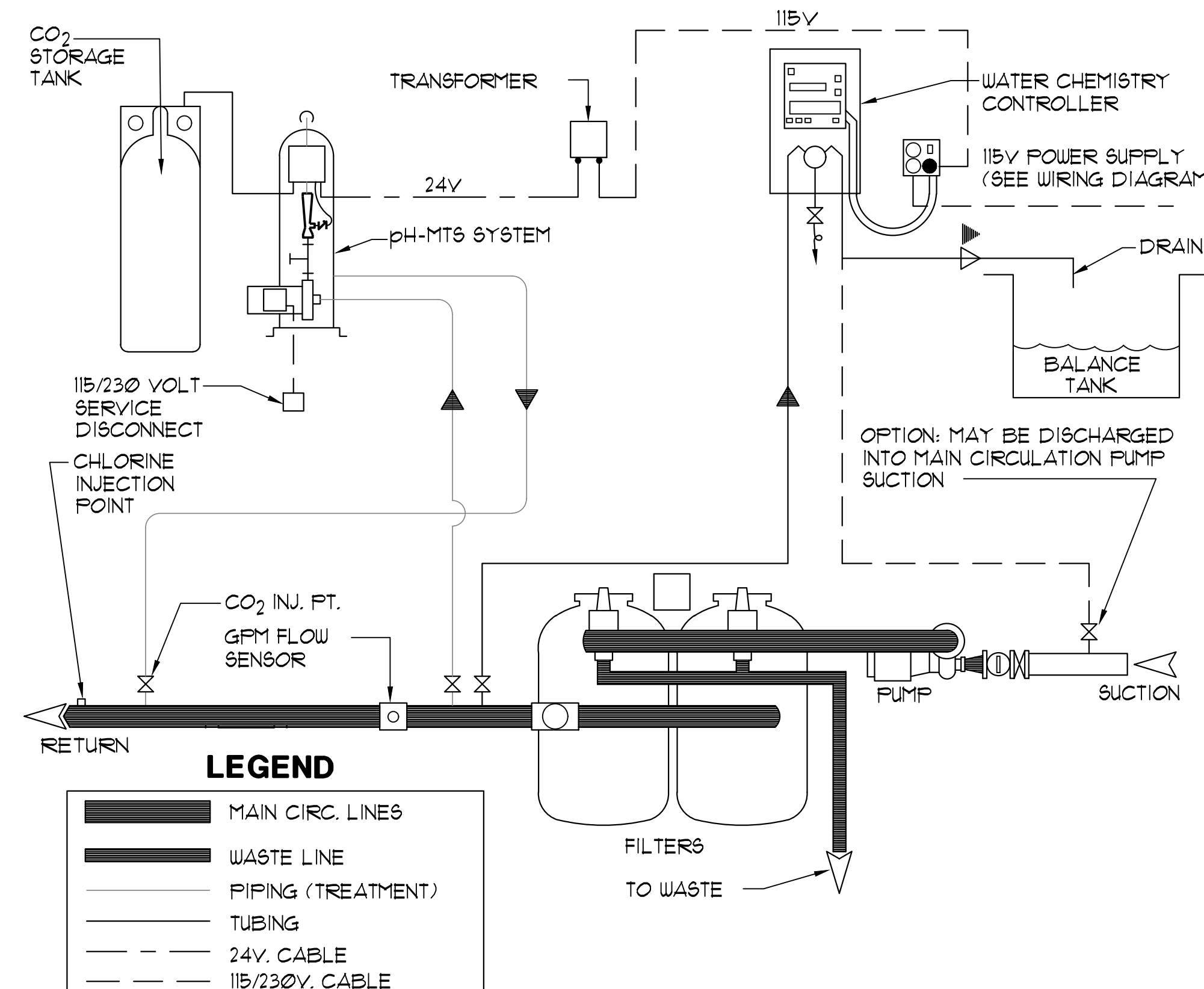
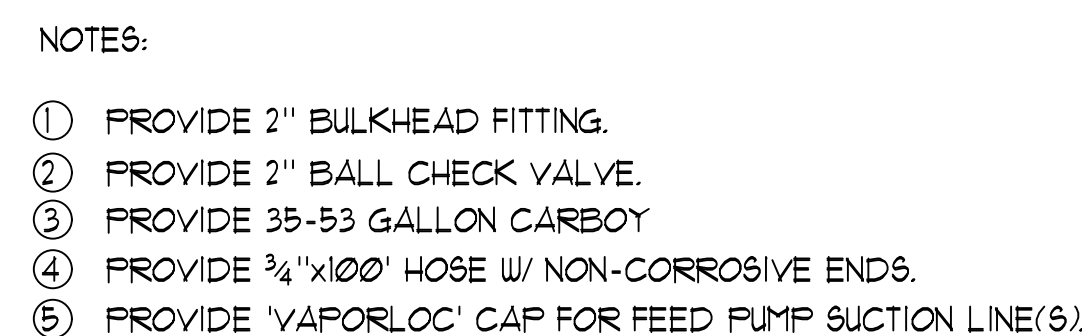


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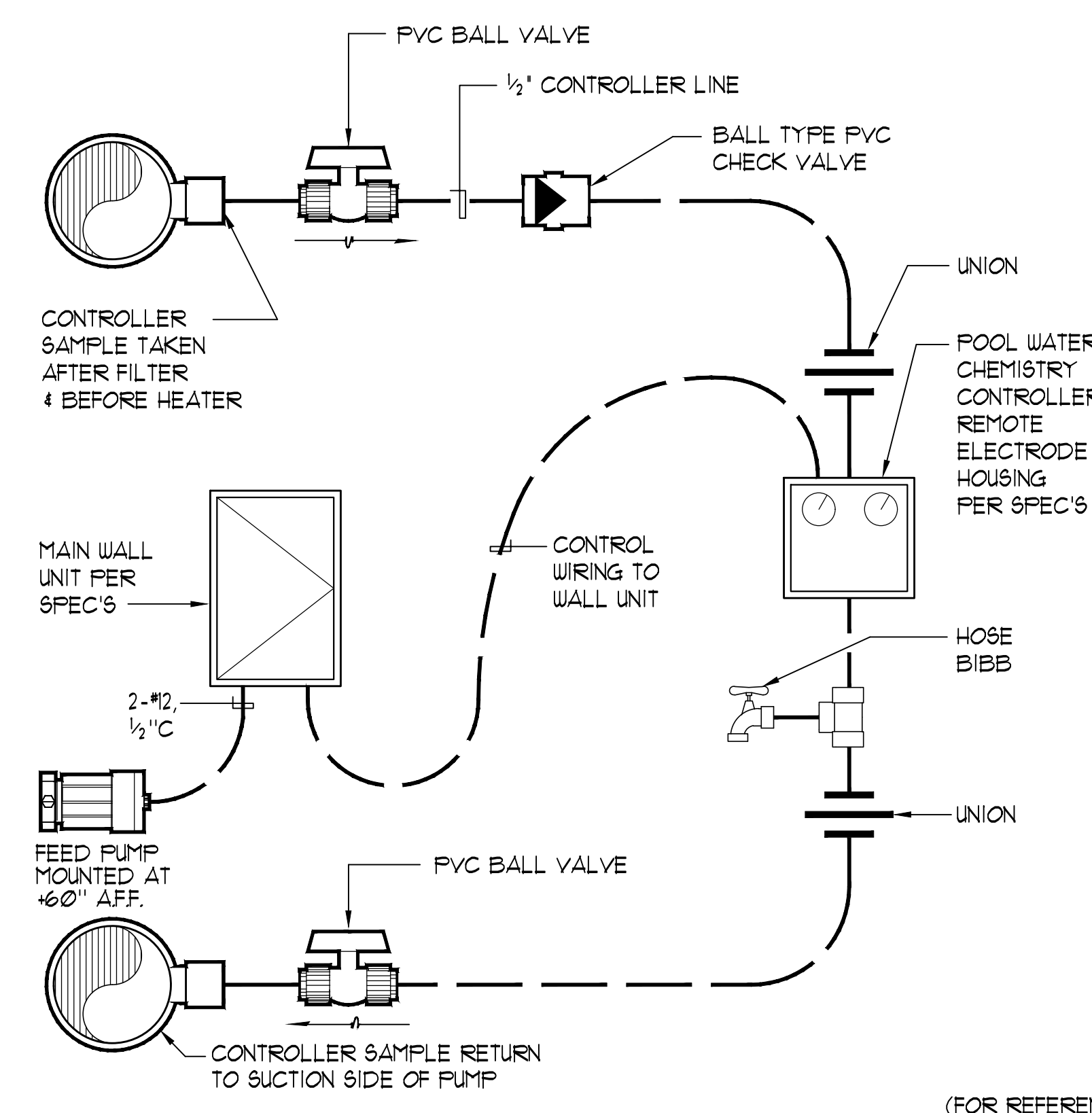
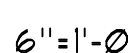
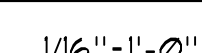
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No.	Issued	Date	No.	Issued	Date
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Keynotes



NO SCALE



6"-1'-0"

NO SCALE

NO SCALE

Consultant



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PHASE 2A - AQUATICS IMPROVEMENTS

Sheet Title:

DETAILS

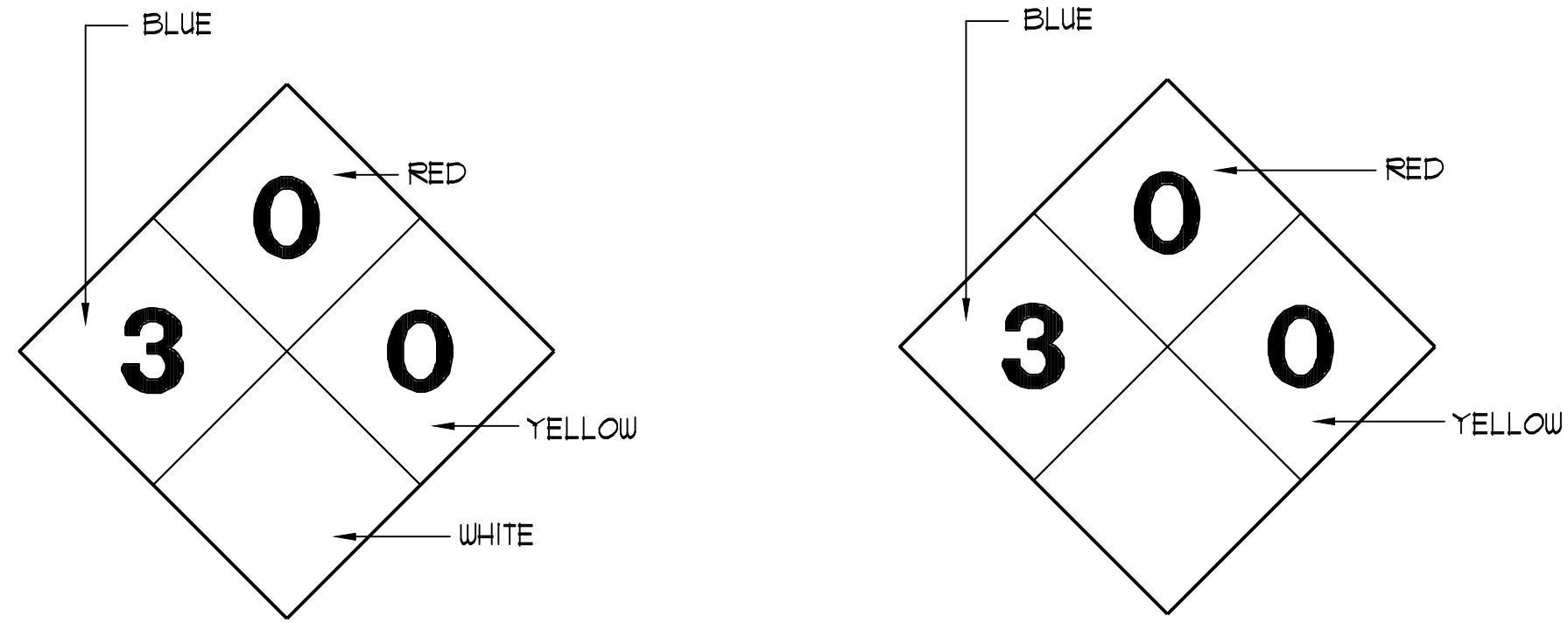
Date: 03/22/202

Client Project No:	
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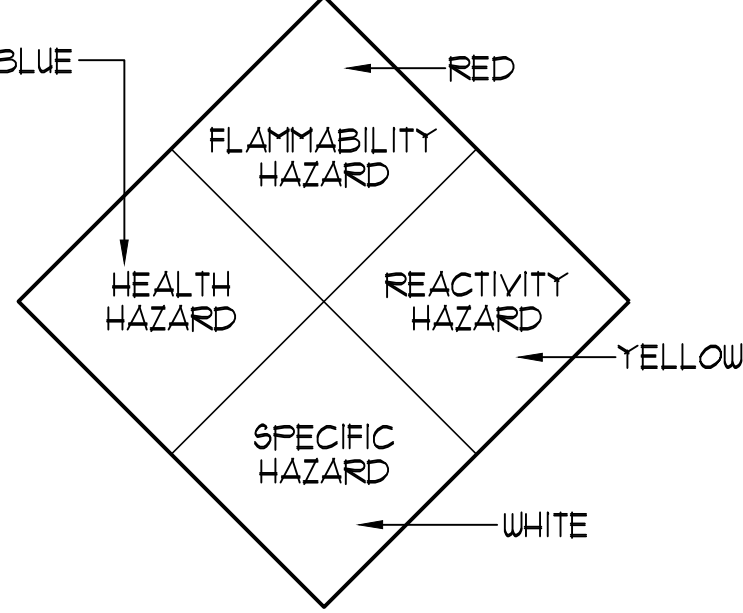
MR-2

MR-2

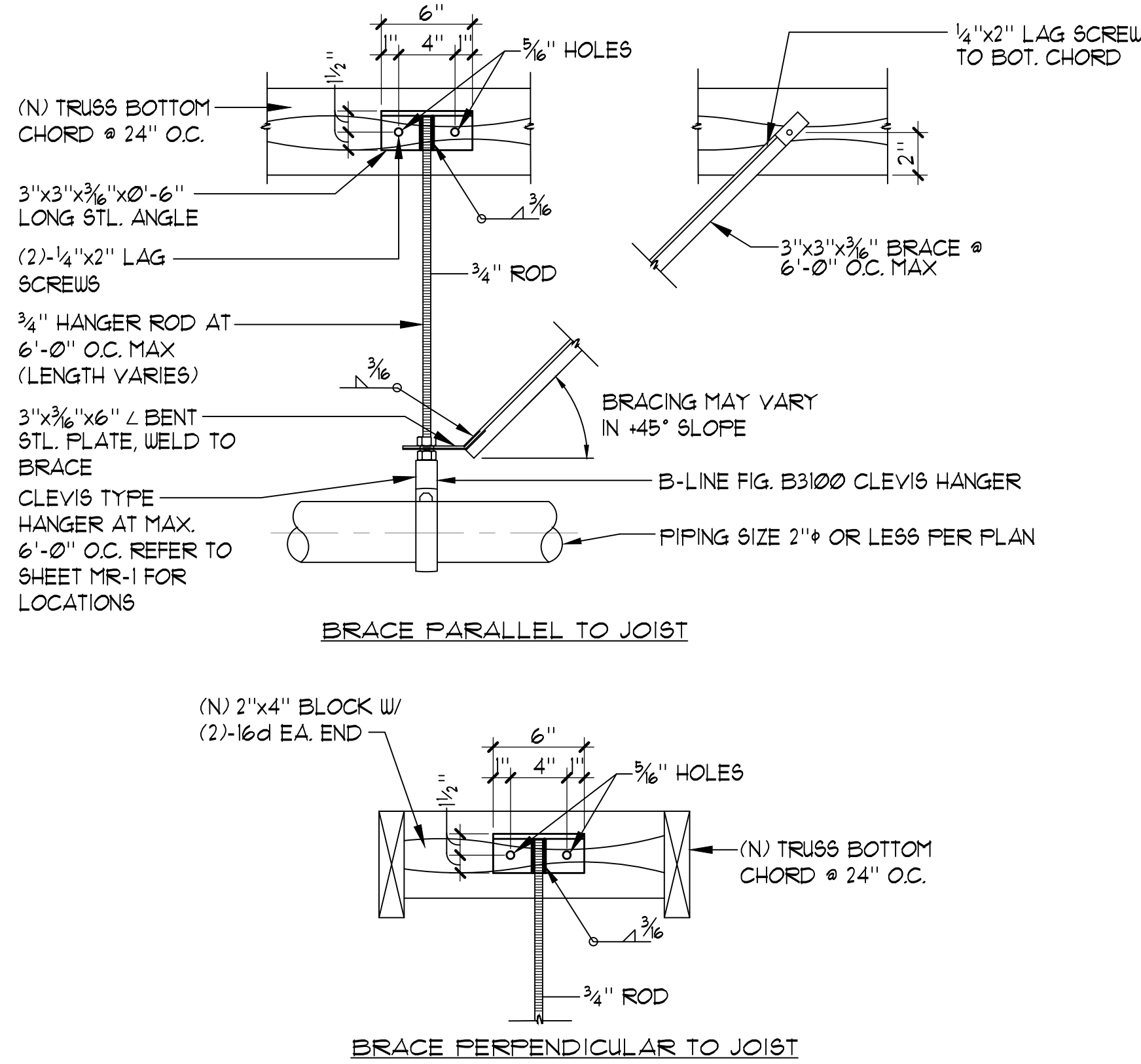


CARBON DIOXIDE
for 600lb storage

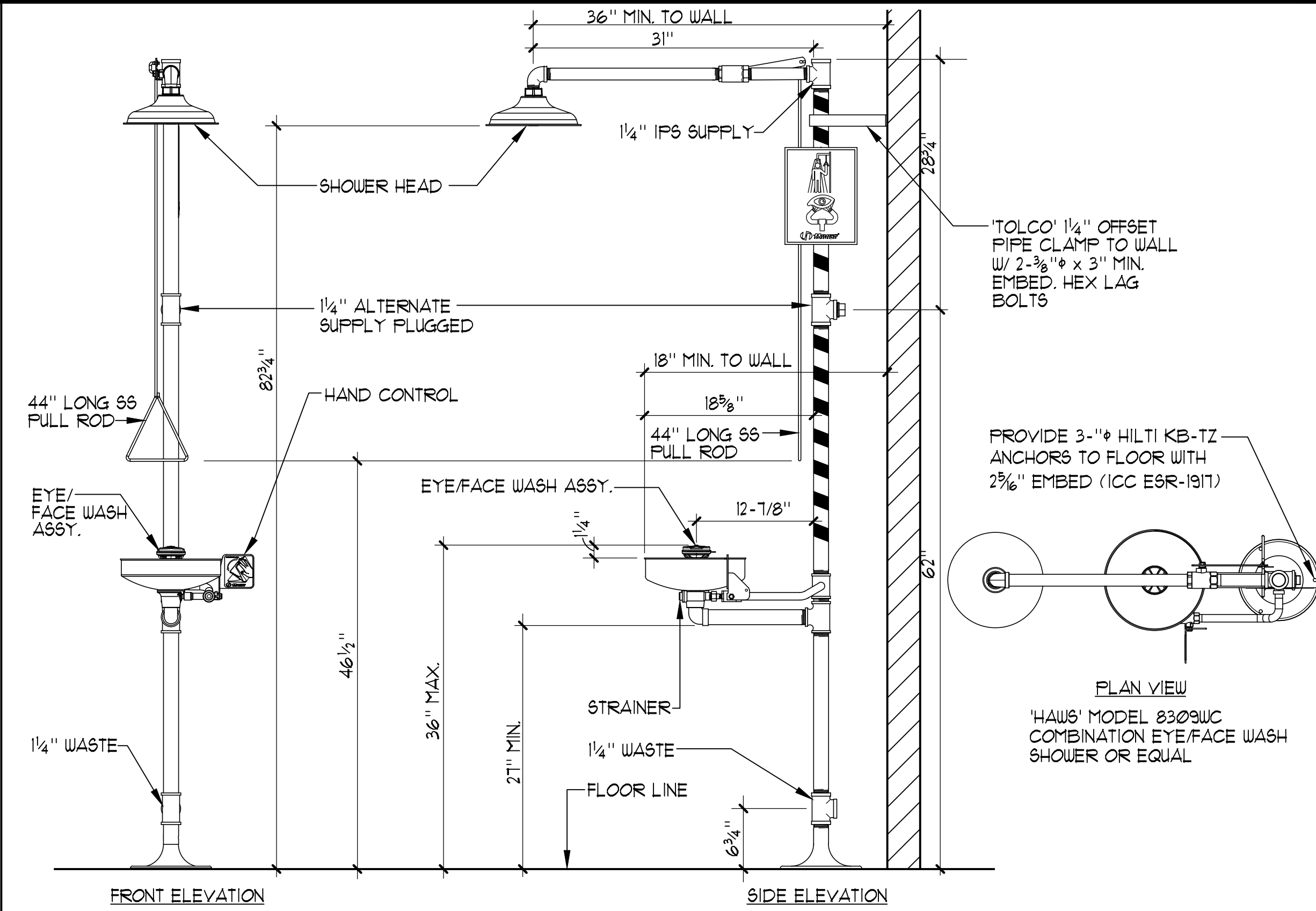
MURIATIC ACID



LEGEND



PIPING HANGER DETAIL



TYPICAL EYEWASH/SHOWER DETAIL

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Keynotes:

NOTES:

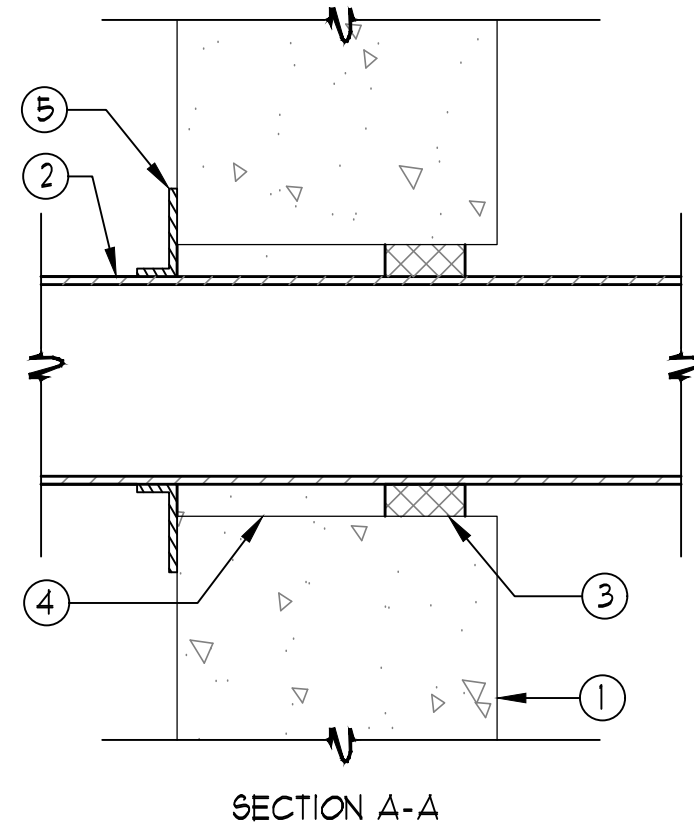
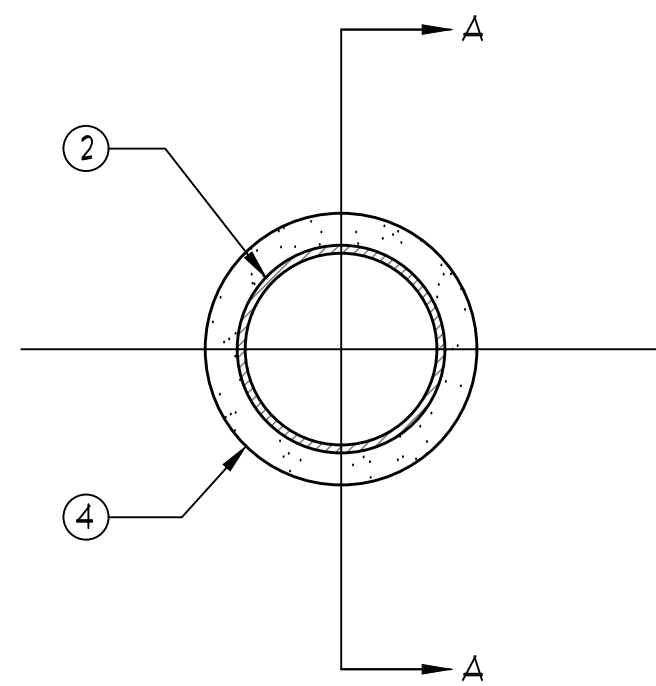
1. THE SPACE BETWEEN THE PENETRATING ITEM AND WALL BOARD MUST ACCOMMODATE AT LEAST ONE WRAP (1/4") OF 3M FIRE BARRIER FS-195 WRAP/STRIP.
2. IF THE ANNULAR SPACE IS LESS THAN 1/2" ONE WRAP OF FS-195 WRAP/STRIP IS REQUIRED. IF THE ANNULAR SPACE IS 1/2" OR GREATER FILL WITH ADDITIONAL WRAPS OF FS-195 WRAP/STRIP UNTIL ANNULAR SPACE IS LESS THAN 1/4". FS-195 WRAP/STRIP MAY BE FRICTION FIT INTO OPENING, SECURED WITH FOIL TAPE OR 16 GAUGE STEEL TIE WIRE.

3. SLIDE THE FS-195 WRAP/STRIP INTO THE OPENING, LEAVING A MAXIMUM 3/4" EXPOSED WRAP BEYOND THE WALL SURFACE.
4. SEAL THE FS-195 WRAP/STRIP EDGES AND SEAMS WITH A 1/4" MINIMUM BEAD OF 3M FIRE BARRIER CP 25 CAULK.
5. INSTALL 3M FIRESTOP ON BOTH SIDES OF THE WALL.
6. THESE RECOMMENDATIONS ARE BASED ON PRODUCT PERFORMANCE PER ASTM E-814 (UL 1413) FIRE TEST AND UL THROUGH PENETRATION FIRESTOP SYSTEM #41

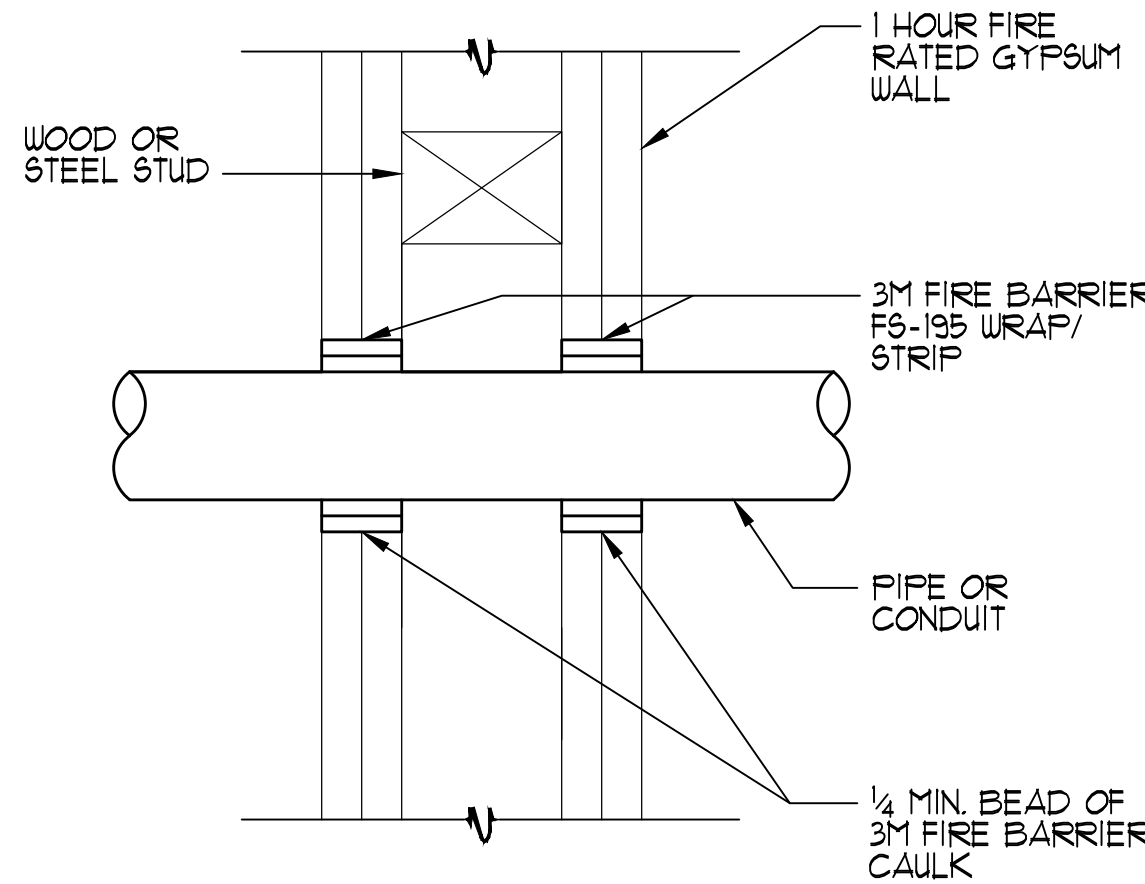
7. THE DETAIL SHOWN IS FOR REFERENCE ONLY. THE PENETRATIONS OF WALLS AND WALL MEMBRANES/ FLOORS/RATED ROOF REQUIRED TO HAVE A FIRE- RESISTANCE RATING SHALL BE PROTECTED WITH THROUGH- PENETRATION FIRE STOPS SUITABLE FOR THE METHOD OF PENETRATION. THROUGH-PENETRATION FIRE STOPS SHALL BE IN ACCORDANCE WITH CBC SECTION 712.

NOTE: UL #49
CSFM #4485-941100

UL SYSTEM #41



SECTION A-A



1. SUBSTRATE (FLOOR OR WALL) CONCRETE OR CMU
2. PENETRATING ITEM
3. DAMPING MATERIAL
4. 3M BRAND FIRE BARRIER (CAULK CP-25 OR PUTTY 303)
5. REMOVABLE FORM (TAPE OR CARDBOARD)

NOTES:

1. FOR REFERENCE ONLY, THE CONTRACTOR SHALL PROVIDE UL LISTED 4 CSFM APPROVED ASSEMBLIES.
2. FOR PIPE PENETRATIONS THRU ALL TYPES OF RATED WALLS, ANY DEVIATION SHALL BE REVIEWED & APPROVED BY STATE FIRE MARSHALL PRIOR TO INSTALLATION.
3. FIRE CAULK MATERIALS SHALL BE 3M, HILTI, OR APPROVED EQUAL.

PIPE PENETRATION THRU RATED WALL DETAIL

NO SCALE

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PHASE 2A - AQUATICS IMPROVEMENTS

Sheet Title:

DETAILS

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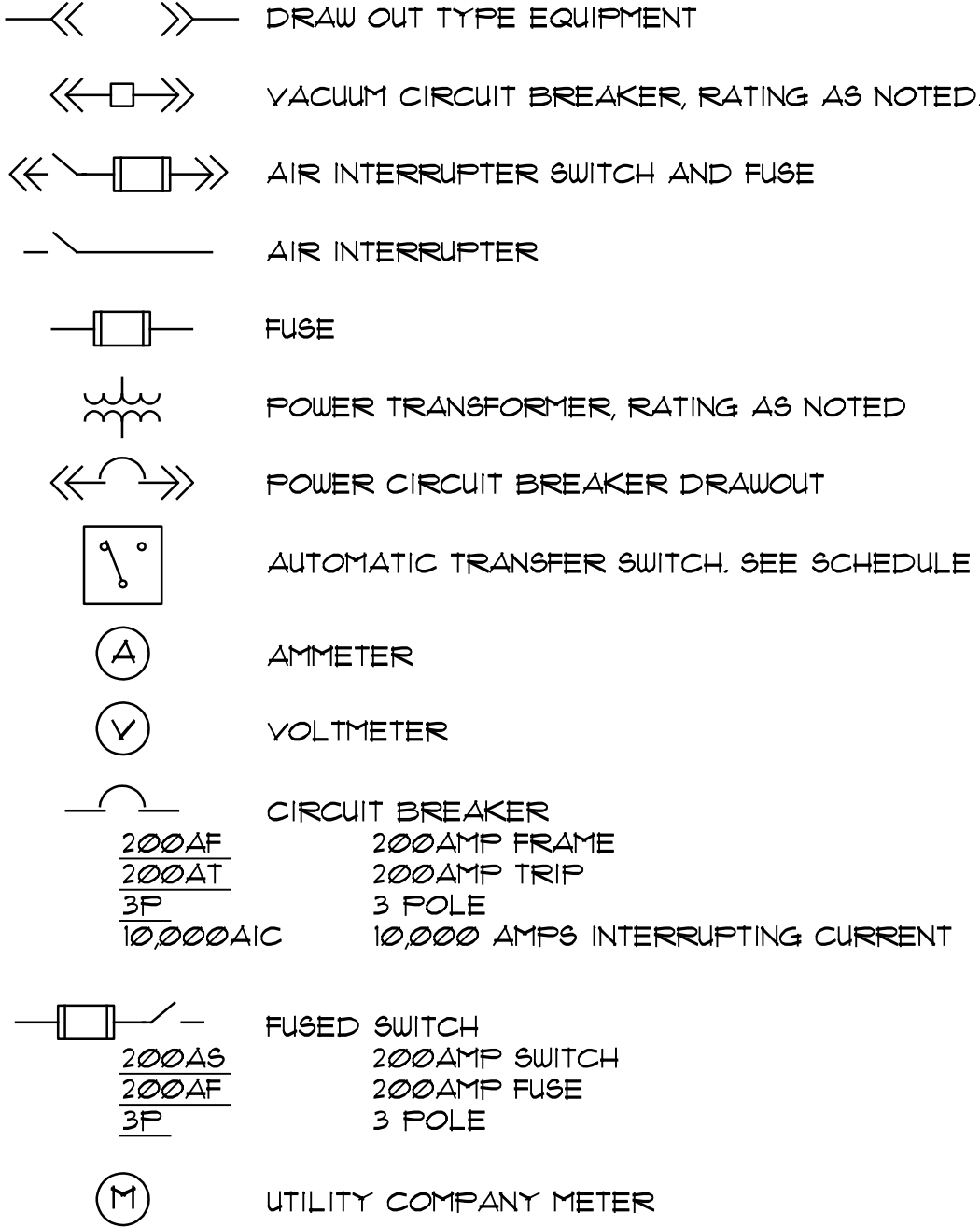
MR-3

ABBREVIATIONS

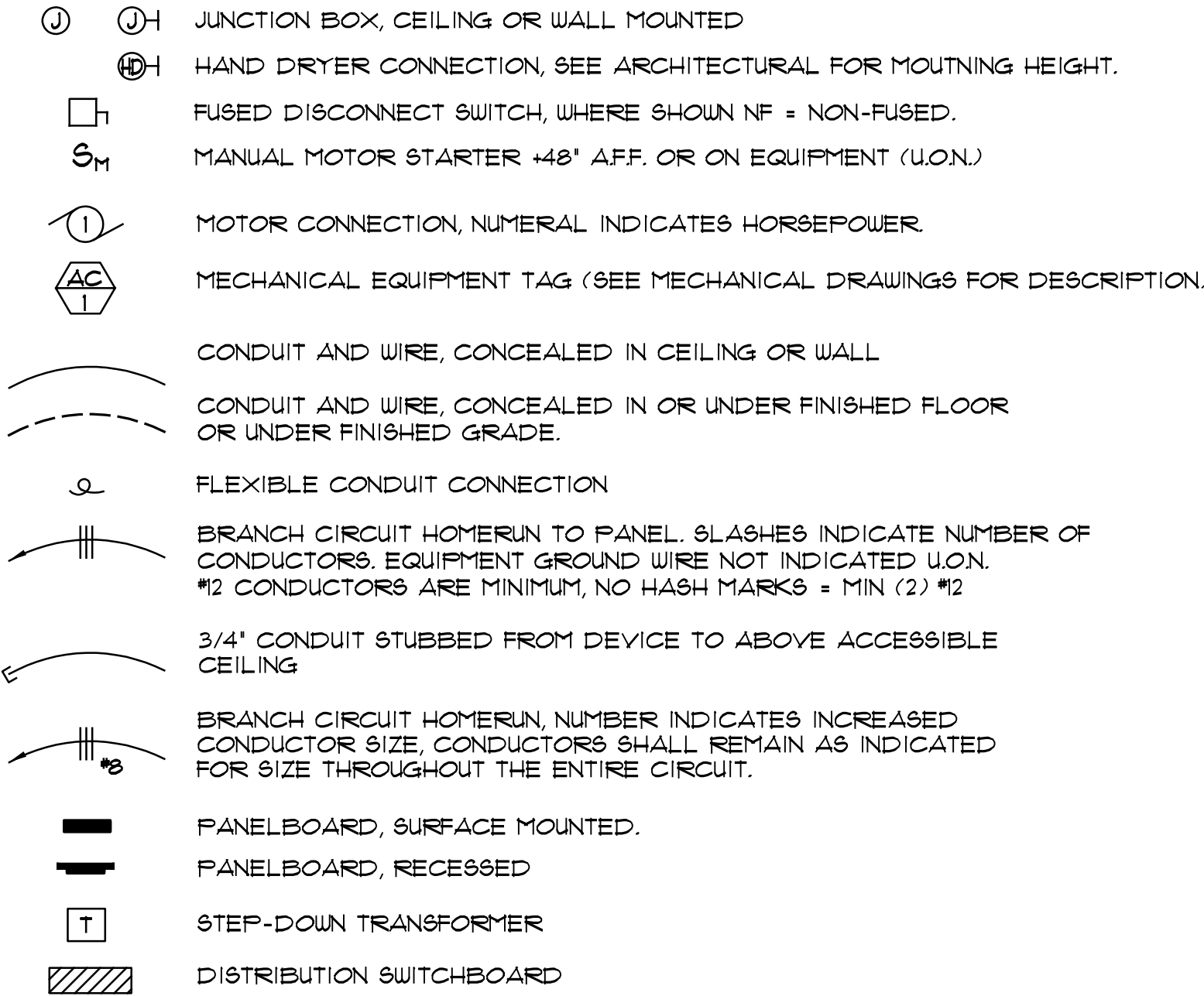
A	AMPERE (AMPS)
AC	ALTERNATING CURRENT
AF	AMPS-FRAME (RATING)
AIC	AMP INTERRUPTING CURRENT
AM	AMMETER
AS	AMP SWITCH FUSED SWITCH RATING
AT	AMPS-TRIP (RATING)
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CO	CONDUIT ONLY
CT	CURRENT TRANSFORMER
CU	COPPER
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DWG	DRAWING
EX	EXISTING
FLA	FULL LOAD AMPS
FVR	FULL VOLTAGE REVERSING
FVNR	FULL VOLTAGE NON-REVERSING
GF	GROUND FAULT INTERRUPTER
GRD/GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
Hz	HERTZ
KW	KILOWATT
LCL	LONG CONTINUOUS LOAD
LRA	LOCKED ROTOR AMPS
LTS	LIGHTING
MCC	MOTOR CONTROL CENTER
MCM (KCM)	THOUSAND CIRCULAR MILS
MECH	MECHANICAL
NC	NORMALLY CLOSED
NF	NON-FUSED
NO	NORMALLY OPEN/NUMBER
OCFI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
P	POLE
PH	PHASE
POC	POINT OF CONNECTION
PRSS	PVC COATED RIGID STEEL (CONDUIT)
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE DUCT
SWBD	SWITCHBOARD
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLT
VA	VOLT-AMPERES
VM	VOLTMETER
VL	VERIFY LOCATION
W	WIRE/WATTS
WF	WEATHER-PROOF (NEMA TYPE 3R)
WT	WATERTIGHT
XP	EXPLOSION PROOF (RATED FOR AREA HAZARD)

ELECTRICAL SYMBOL LEGEND

DISTRIBUTION EQUIPMENT



POWER CONTINUED



GENERAL PROJECT NOTES:

- UNLESS OTHERWISE NOTED, ALL WORK INDICATED ON THESE DRAWINGS SHALL BE CONSIDERED NEW WORK.
- UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TO BE CENTERLINE OF THE DEVICE.
- "GENERAL NOTES" SHOWN ON AN INDIVIDUAL DRAWING APPLY TO ALL WORK SHOWN ON THAT SHEET. "KEY NOTES" ONLY APPLY TO SPECIFIC ITEMS WHERE ANNOTATED AT SPECIFIC LOCATIONS. SOME KEY NOTES MAY NOT APPLY TO ANY SPECIFIC ITEMS.
- UNLESS SPECIFICALLY SHOWN ON THESE DRAWINGS, NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR AUTHORIZATION IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD AND DSA.

MEP COMPONENT ANCHORAGE NOTE:

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 2019 CBC SECTIONS 1611A.118 THROUGH 1611A.126 AND ASCE 1-16 CHAPTERS 13, 16, AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 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.
- 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.

- 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.
- 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.

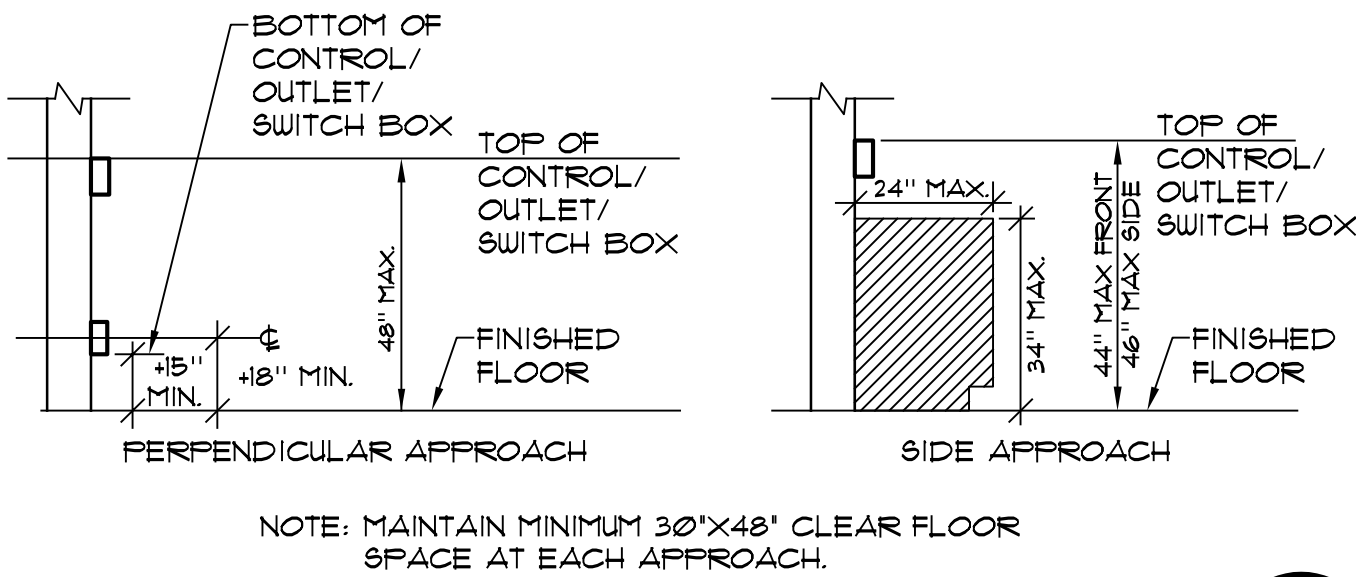
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE T-16 SECTION 13.3 AS DEFINED IN ASCE T-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1611A.124, 1611A.125 AND 1611A.126.

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. OSHPD OPM FOR 2019 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)

- ☐ ☐ ☐ ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
- ☐ ☐ ☐ ☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM).



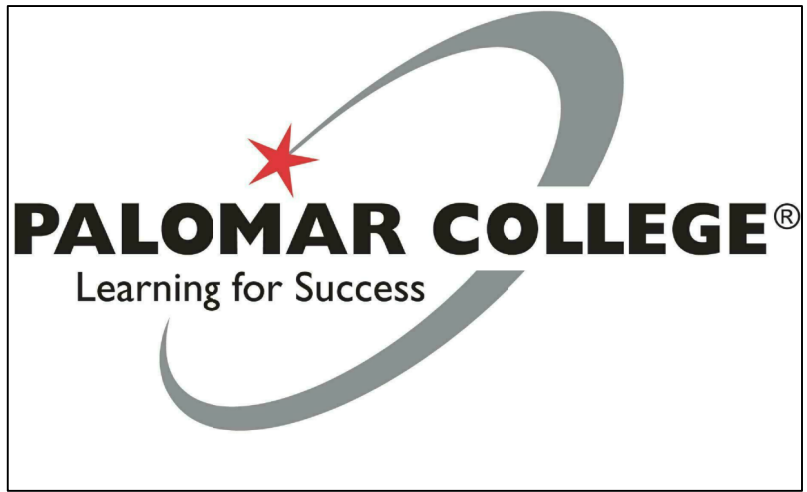
NOTE: MAINTAIN MINIMUM 30"x48" CLEAR FLOOR SPACE AT EACH APPROACH.

MOUNTING HEIGHT OVER OBSTRUCTION

NO SCALE

1
E00

AGENCY
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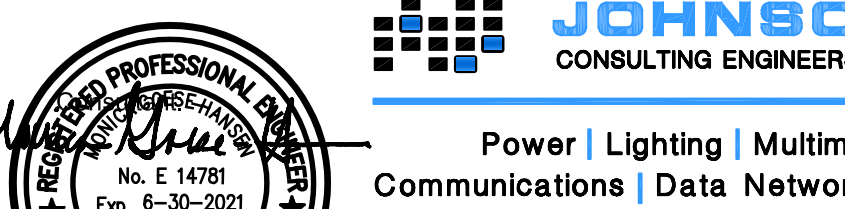
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3/3/2021

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PHASE 2A - AQUATICS IMPROVEMENTS

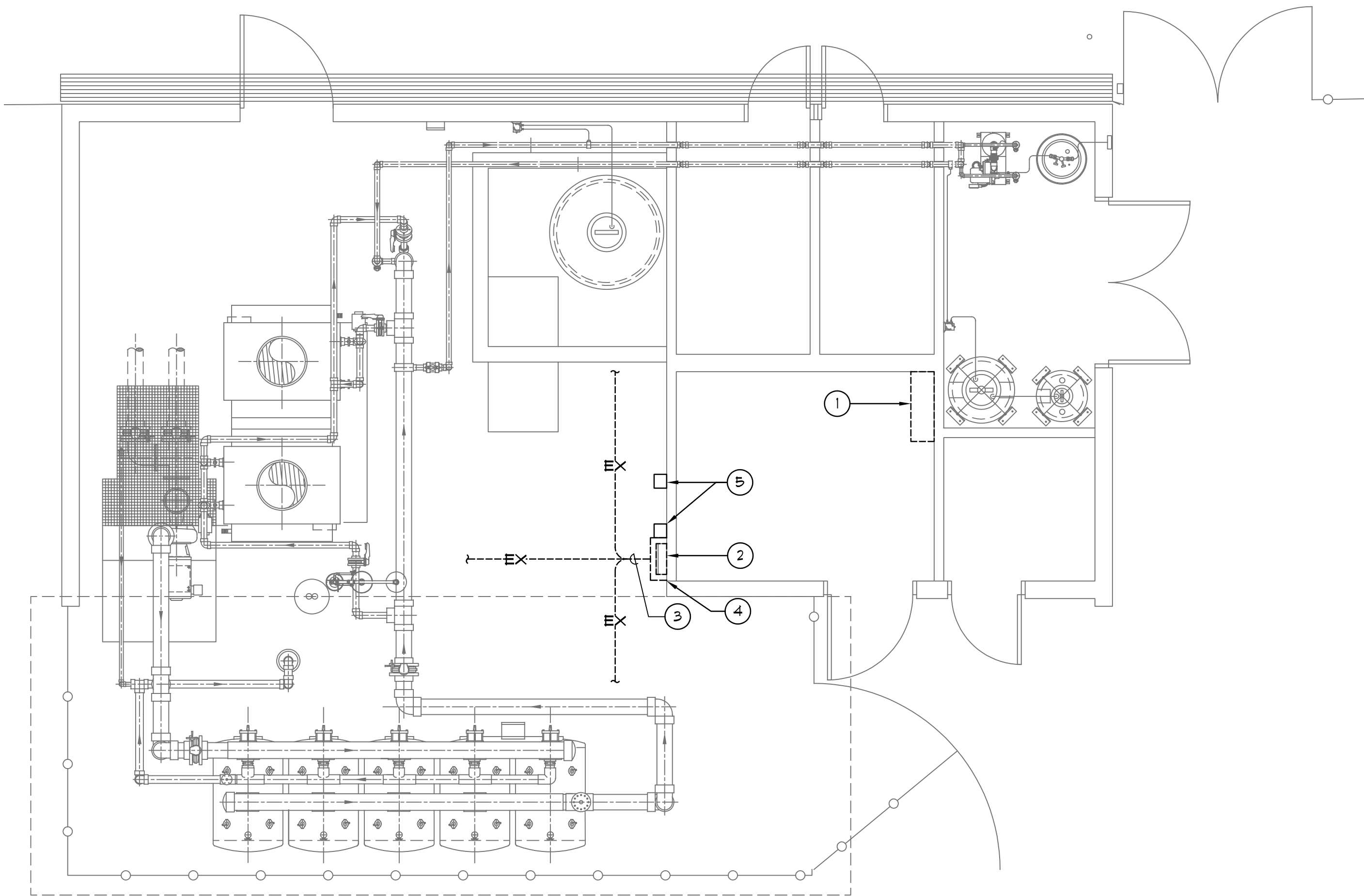
Sheet Title:
ELECTRICAL LEGEND AND NOTES

HEALTH DEPARTMENT SUBMITTAL

Date: 01/28/2021 Client Project No:

Sheet:

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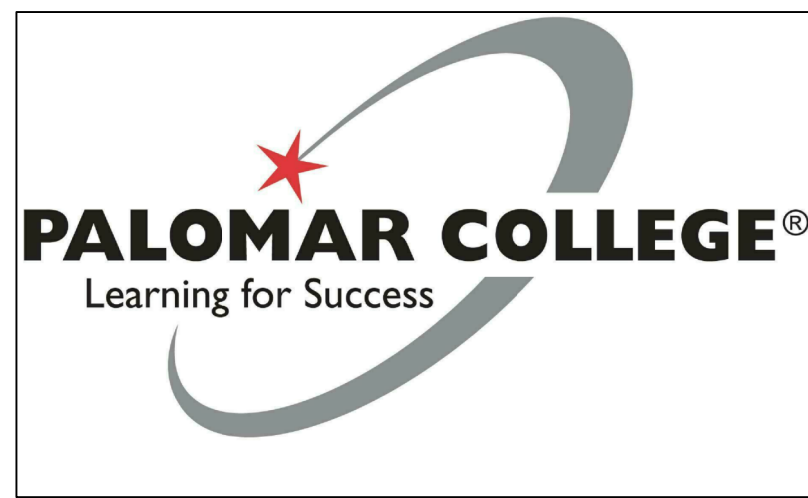
GENERAL NOTES:

- CONTRACTOR SHALL FIELD TEST ALL EXISTING CIRCUIT TO BE REMOVED AT EXISTING 'MCC' PRIOR TO DEMOLITION TO DETERMINE COMPLETE ROUTING AND LOCATION OF ALL TERMINATIONS.

KEY NOTES:

- EXISTING DISTRIBUTION PANEL 'LA' 120/208V 3PH 4W TO REMAIN.
- EXISTING 'MCC' TO BE REMOVED.
- EXISTING (10) 3/4\"/>

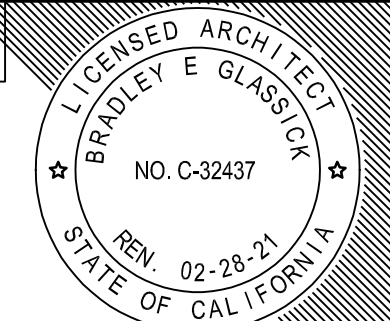
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ELECTRICAL - DEMOLITION PLAN

2

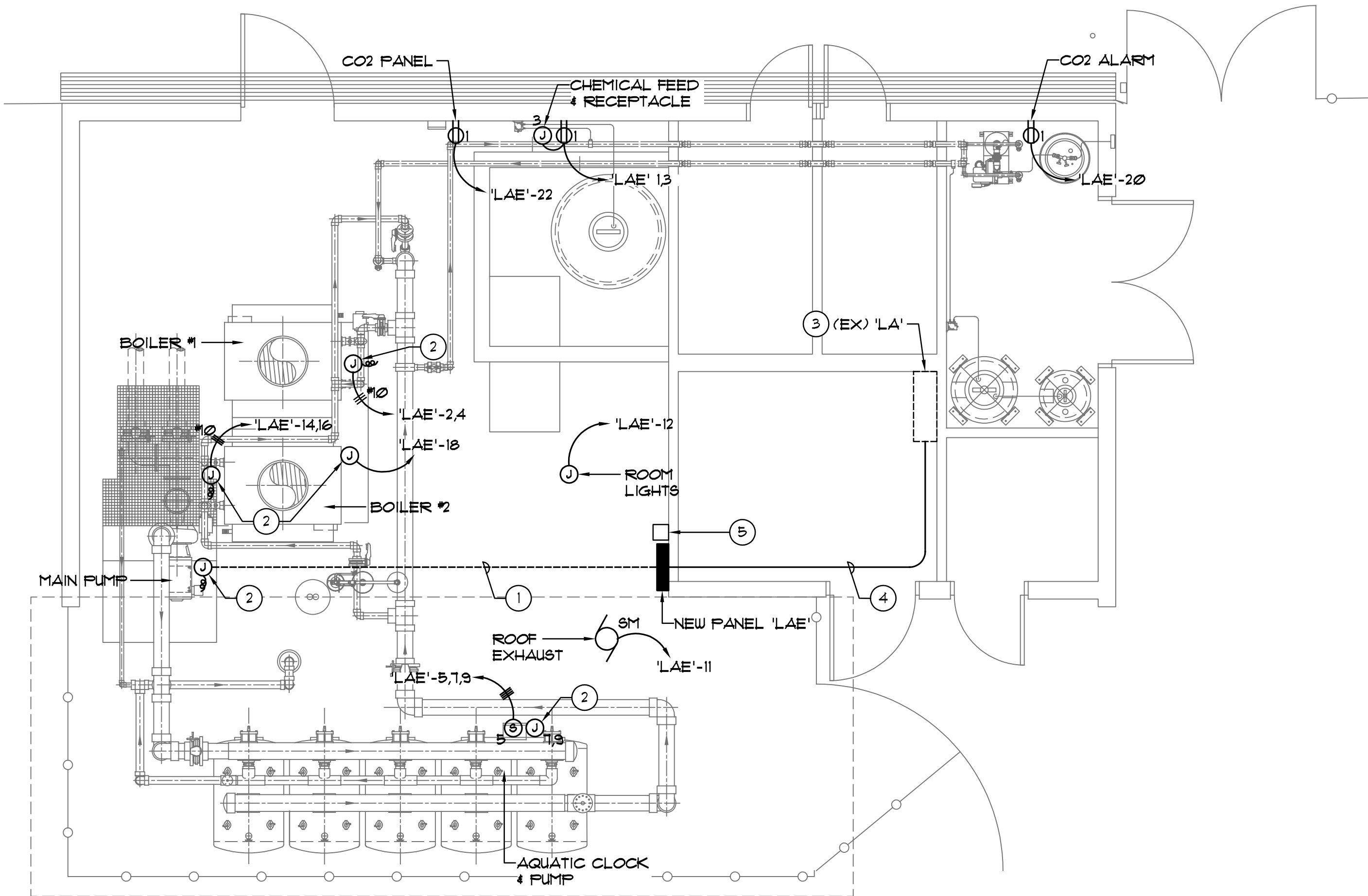
1/4" = 1'-0"

GENERAL NOTES:

- PROVIDE PVC COATED R36 CONDUITS FOR ALL HOMERUNS EXTEND VERTICAL FROM EACH PIECE OF EQUIPMENT ROUTED HORIZONTALLY EXPOSED ON CEILING TO PANEL 'LAE' AS REQUIRED.
- FIELD VERIFY ALL CONNECTION LOCATIONS WITH POOL EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.

KEY NOTES:

- EXISTING 1-1/4\"/>



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ELECTRICAL FLOOR PLAN

HEALTH DEPARTMENT SUBMITTAL

Date: 01/28/2021

Client Project No:

Sheet:

ELECTRICAL - FLOOR PLAN

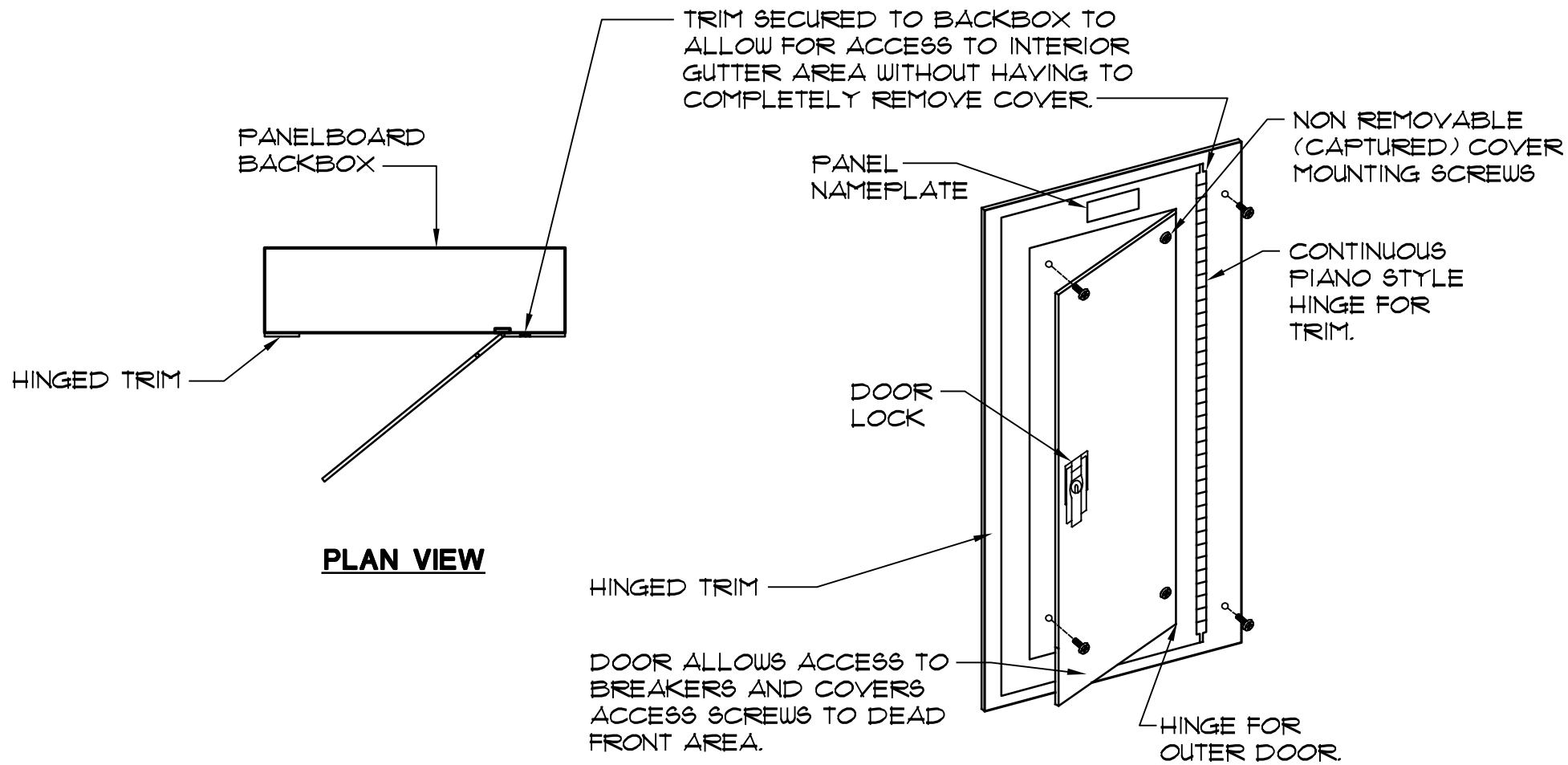
1

1/4" = 1'-0"

12/0/08	120/208 3PH, 4WIRE	300 AMP	Main	Breaker	X	ENCLOSURE TYPE	ENCLOSURE NOTE							
	200% Neutral Bus		Lugs			NEMA TYPE 1								
	(INTEGRAL TVSS Protection		Recessed			NEMA TYPE 3R								
LAE	(REMOTE)TVSS Protection		Surface	X	X	NEMA TYPE 4X								
	Service Entrance Rated													
Load Side Feed thru Lugs		GENERAL DISTRIBUTION BREAKER REQUIREMENTS: PROVIDE LOCK ON BREAKER DEVICES FOR ALL EMERGENCY LIGHTING, MOTORS, AND FIRE ALARM EQUIPMENT SERVED FROM THIS PANEL.												
LCL	NHL	CIRCUIT DESCRIPTION	AMP	POLE	NO	PHASE A	PHASE B	PHASE C	NO	AMP	POLE	CIRCUIT DESCRIPTION	LCL	NHL
	X	Chemical Feed	20	1	1	400			2	30	2	Boiler #1		X
		Receptacle	20	1	3	1200			4					X
		Aquatics Clock	20	1	5				4					X
X	X	Aquatics Pump	20	2	7	1000			6	100	3	Main Pump	X	X
					9	1000			8				X	X
		Roof Exhaust	20	1	11				10				X	X
		Spare	20	1	13				12	20	1	lighting		
		Spare	20	1	15	1200			14	30	2	Boiler #2		X
		Spare	20	1	17				16					X
		Spare	20	1	19				18	20	1	Boiler Control		
		Spare	20	1	21	1800			20	20	1	CO2 Alarm		
		Spare	20	1	23				22	20	1	CO2 Panel		
		Spare	20	2	25				24	20	2	Spare		
		Spare			25				26			Spare		
		Spare	30	2	27				28	30	2	Spare		
		Spare			29				30			Spare		
		Spare	20	3	31				32	20	3	Spare		
		Spare			33				34			Spare		
		Spare			35				36			Spare		
		SPACE	20	1	37				38	20	1	SPACE		
		SPACE	20	1	39				40	20	1	SPACE		
		SPACE	20	1	41				42	20	1	SPACE		
SPECIAL PANEL									NOTE #1					
NOTE									NOTE #2					
NHL= Non Harmonic Load		TOTAL LOAD PER PHASE		15400	14800	11800								
LCL= Long Continuous Load		25% LONG CONTINUOUS LOADS		2750	2500	2500								
		SUB PANEL												
		SUB PANEL												
Max. Neut. Load		TOTAL CONNECTED LOAD		18150	17300	14300								
34 AMPS							HIGH PHASE 18150 / 0.9pf = VA @ 120V 168.1 AMPS ALL PHASES 48750 / 0.9pf = VA @ 208V/3PH 153.5 AMPS							
							DEMAND PER CEC 220-86							
							AMPS							

M:\Panel Schedule\2021\21001 Palomar aquatics\Panel LAE.xls

3:42 PM 3/22/2021



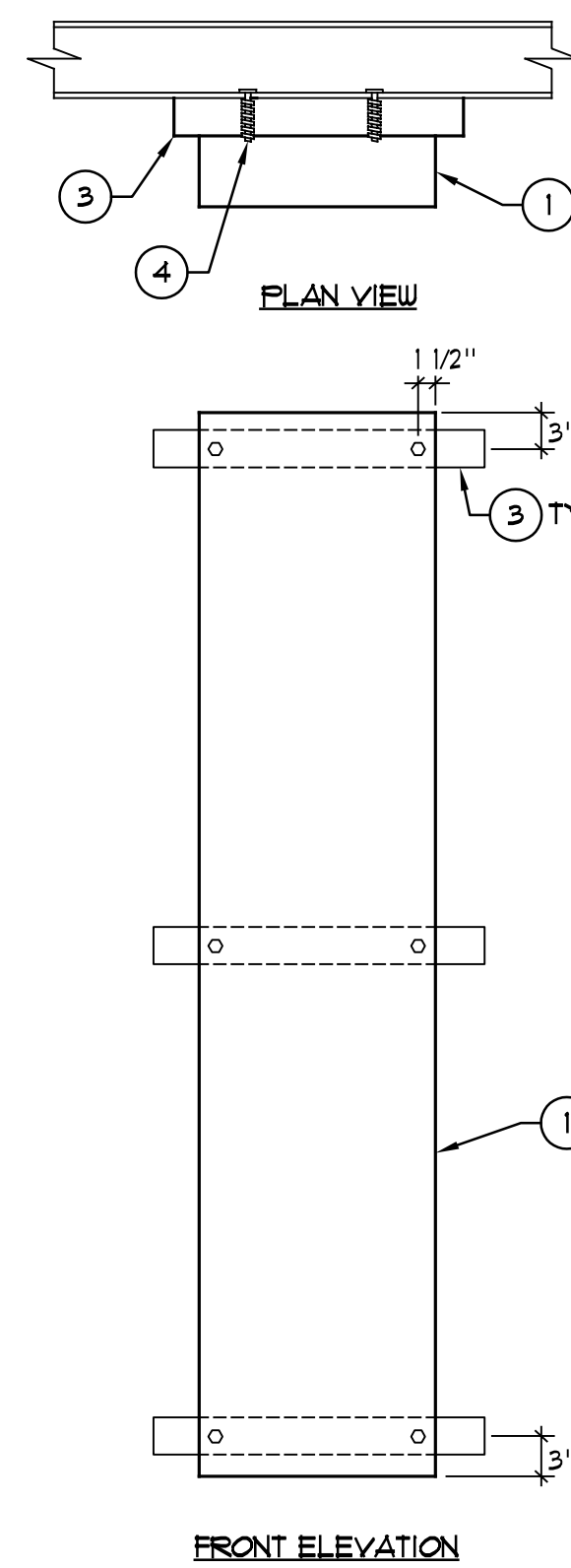
DETAIL GENERAL NOTES

1. PROVIDE FOR ALL PANELBOARDS FOR THIS PROJECT - SURFACE, RECESSED NEMA 1, OR NEMA 3R CONFIGURATION.
2. SEE REFERENCE ONE LINE DIAGRAM FOR ALL PANELBOARD AIC RATINGS.

TYPICAL PANELBOARD DOOR / TRIM DETAIL

NO SCALE

1
E2.0



DETAIL NOTES

- 1 ELECTRICAL PANEL WALL MOUNTED 30" H. X 20" W. X 6" D. MAXIMUM 150 LBS MAXIMUM WEIGHT.
- 2 NOT USED.
- 3 UNISTRUT F1000 C-CHANNEL.
- 4 UNISTRUT F2380 ANCHOR.
- 5 #2 SHS. @ 6" O.C. TO BACKING
- 6 6"x16GA (54 MINUS) NOTCHED TRACK ANCHOR BACKING TO (3) STUDS MIN.

SURFACE WALL MOUNTED ELECTRICAL PANEL DETAIL

NO SCALE

2
E2.0

AGENCY
APPROVAL:



HMC Architects

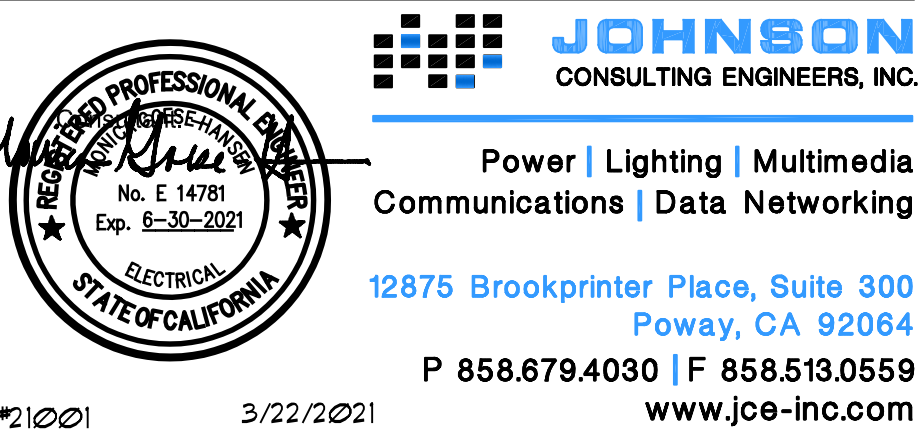
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Project:
PHASE 2A - AQUATICS IMPROVEMENTS

Sheet Title:
ELECTRICAL SCHEDULES AND DETAILS

HEALTH DEPARTMENT SUBMITTAL

Date: 01/28/2021 Client Project No:

Sheet: