

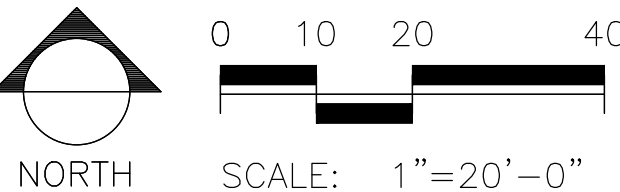
LEGEND

- EX. INTERMEDIATE CONTOUR **RCRBD** 5.364
- EX. INDEX CONTOUR **RECORD SET** 5.365
- EX. SPOT ELEVATION **RECORD SET** 45.34
- EX. FIRE HYDRANT FH
- EX. WATER VALVE WV
- EX. GAS METER GM
- EX. MANHOLE MH
- OVERHANG COLUMN CC
- EX. LIGHT POLE LP
- EX. SANITARY CLEANOUT CO
- EX. ROOF DRAIN RD
- FINISH FLOOR FF
- BUILDING OVERHANG
- EX. BURIED ELECTRIC LINE
- EX. BURIED TELEPHONE LINE
- EX. GAS LINE
- EX. WATER LINE
- EX. DECIDUOUS TREE
- EX. CONIFEROUS TREE
- EX. DECIDUOUS BUSHES
- BUILDING HATCH
- CONCRETE HATCH
- LANDSCAPE AREA HATCH
- PARKING GARAGE
- STORM PIPE
- PROJECT BOUNDARY / LIMIT OF WORK
- LOT LINES / PROPERTY LINES

PJ3253-1
Fire Prevention
In: 09/12/2018
Out: 09/19/2018

LOT / PARCEL #1
TORIAN PLUM CONDOMINIUMS PHASE 1 (276,230 SF)

LOT / PARCEL #2
TORIAN PLUM CONDOMINIUMS PHASE 2 (24,860 SF)



w e n k

ASSOCIATES
PLANNERS &
LANDSCAPE
ARCHITECTS
303.828.0003

JOSHUA J. CULWELL
985
10/25/2012
Original Seal of Licensure
7/3/06/18
STATE OF COLORADO
LICENSED LANDSCAPE ARCHITECT

WATERPROOFING / RENOVATION - PHASE 2

TORIAN PLUM PARKING STRUCTURE

STEAMBOAT SPRINGS, CO

Date 10.22.18

Drawn By BP

Reviewed by JC

Job No. 16021.01

Revisions

Name	Date
DEV. PLAN #1	03/02/2018
BLDG DEPT #1	03/06/18

Issue:
100% Construction Documents

Sheet Title:
Existing Conditions Plan

Sheet Number
EC1.0

POOL SIGNS

SIGNAGE SHALL BE PROVIDED AND POSITIONED IN ACCORDANCE WITH THE AUTHORITY HAVING LOCAL JURISDICTION.

LOCATION AND SIZE. POST THE RULES IN A CONSPICUOUS PLACE NEAR THE ENTRANCE TO THE POOL AREA AND THE DRESSING ROOM. THE MINIMUM SIZE FOR THE SIGN IS 18 INCHES BY 24 INCHES WITH LETTERING THAT IS EASILY LEGIBLE AND AT LEAST 1/2 INCH HIGH.

CONTENT: AT ALL POOLS THE OPERATOR MUST POST AND ENFORCE A SIGN THAT INCLUDES THE FOLLOWING LANGUAGE.

- "WARNING NO LIFEGUARD ON DUTY" (IN LETTERS AT LEAST 4 INCHES HIGH)
- "CHILDREN UNDER THE AGE OF 14 SHOULD NOT USE POOL WITHOUT AN ADULT IN ATTENDANCE" (IN LETTERS AT LEAST 4 INCHES HIGH)
- "NO DIVING ALLOWED" (IN LETTERS AT LEAST 4 INCHES HIGH)
- "PROTECT YOUR WATER - PLEASE DO NOT USE THE POOL IF YOU HAVE HAD DIARRHEA IN THE PAST TWO WEEKS, OR A DISEASE COMMUNICABLE BY WATER."
- "SHOWER YOUR CHILD AND YOURSELF, TAKE A CLEANSING SHOWER BEFORE ENTERING THE POOL OR AFTER USING THE TOILET."
- "SWIMMERS WHO ARE NOT TOILET TRAINED MUST WEAR A SWIM DIAPER."
- "IMMUNO-COMPROMISED INDIVIDUALS SHOULD USE CAUTION WHEN USING A PUBLIC POOL."
- "WATER AND ALCOHOL DON'T MIX. NO PERSON UNDER THE INFLUENCE OF ALCOHOL MAY USE THE POOL."
- "NO RUNNING OR ROUGH PLAY."
- "NO GLASS OR PLASTIC THAT WILL SHATTER."
- "NO FOOD OR DRINK IN THE POOL."
- "NO ANIMALS IN THE POOL AREA."

MAXIMUM OCCUPANT CAPACITY: (33) PERSONS IN POOL (IN LETTERS AT LEAST 4 INCHES HIGH)

DIAGRAMMATIC ILLUSTRATIONS OF ARTIFICIAL RESPIRATION PROCEDURES SHALL BE POSTED WHERE CLEARLY VISIBLE FROM THE NEARBY DECK.

SIGNS SHALL BE POSTED THAT CLEARLY MARK THE LOCATION OF THE PUMP EMERGENCY SHUT-OFF SWITCH. THE SWITCH SHALL BE CLEARLY LABELED.

NOTE: SAFETY ITEMS, REQUIRED SIGNS, HEALTH ISSUES, AND DRESSING ROOM REQUIREMENTS THAT ARE INDICATED ON THE DRAWINGS, OR IN THE SPECIFICATIONS ARE FOR GENERAL GUIDANCE ONLY. THE POOL CONTRACTOR AND/OR THE OWNER/OPERATOR OF THE FACILITY SHALL BE RESPONSIBLE FOR FURNISHING AND MAINTAINING OF ALL ITEMS REQUIRED BY THE REGULATIONS FOR THE DESIGN, CONSTRUCTION, AND OPERATION OF PUBLIC SWIMMING POOLS.

KEEP CLOSED. A SIGN SHALL BE POSTED ON THE EXTERIOR SIDE OF GATES AND DOORS LEADING INTO THE POOL ENCLOSURE AREA STATING, "KEEP CLOSED."

SPA SIGNS

WARNING SIGN FOR A SPA POOL. A PRECAUTION SIGN WITH CLEARLY LEGIBLE LETTERS SHALL BE POSTED IN A PROMINENT PLACE NEAR THE ENTRANCE TO A SPA POOL WHICH SHALL CONTAIN THE FOLLOWING LANGUAGE:

"CAUTION"

1. ELDERLY PERSONS, PREGNANT WOMEN, INFANTS AND THOSE WITH HEALTH CONDITIONS REQUIRING MEDICAL CARE SHOULD CONSULT WITH A PHYSICIAN BEFORE ENTERING A SPA.
2. UNSUPERVISED USE BY CHILDREN UNDER THE AGE OF 14 IS PROHIBITED.
3. HOT WATER IMMERSION WHILE UNDER THE INFLUENCE OF ALCOHOL, NARCOTICS, DRUGS, OR MEDICINES MAY LEAD TO SERIOUS CONSEQUENCES AND IS NOT RECOMMENDED.
4. DO NOT USE ALONE.
5. LONG EXPOSURE MAY RESULT IN NAUSEA, DIZZINESS OR FAINTING.

MAXIMUM OCCUPANT CAPACITY: (2) PERSONS IN EACH SMALL SPA (IN LETTERS AT LEAST 4 INCHES HIGH),
(6) PERSONS IN LARGE SPA (IN LETTERS AT LEAST 4 INCHES HIGH)

EMERGENCY SHUT OFF. IN LETTERS AT LEAST ONE INCH (25 MM) HIGH A SIGN SHALL BE POSTED AT THE SPA EMERGENCY SHUT OFF SWITCH STATING, "EMERGENCY SHUT OFF SWITCH."

EMERGENCY # AND TELEPHONE

A SIGN MUST BE POSTED IN THE IMMEDIATE VICINITY OF THE POOL STATING THE ADDRESS OF THE FACILITY AND THE LOCATION OF THE NEAREST TELEPHONE WITH EMERGENCY TELEPHONE NUMBERS WHICH SHALL INCLUDE:

- EMERGENCY TELEPHONE NUMBER 911 (IN LETTERS AT LEAST 4 INCHES HIGH)
- NAME AND PHONE NUMBERS OF THE NEAREST POLICE, FIRE, AND RESCUE UNIT
- NAME AND PHONE NUMBERS OF THE NEAREST AMBULANCE SERVICE
- NAME AND PHONE NUMBERS OF THE NEAREST HOSPITAL

WORK SCOPE

CONSTRUCTION OF 3 SPAS BY POOL CONTRACTOR TO INCLUDE BUT NOT LIMITED TO: EXCAVATION, HAUL OFF OF EXCAVATION SPOILS OFF SITE, FRAMING, TRENCHING, BACKFILL, PLUMBING, UNDERWATER LIGHTS, STEEL, BONDING, ELECTRICAL, SHOTCRETE, TILE, COPING, PLASTER, HAND RAILS, ANCHORS, DEPTH MARKERS, HANDICAP LIFT, CAULKING, POOL DECK DRAINS, POOL SIGNAGE, CLEANING AND EMERGENCY EQUIPMENT.

POOL/SPA EQUIPMENT TO INCLUDE BUT NOT LIMITED TO ITEMS LISTED ON SP203 AND SP301 UNLESS NOTED OTHERWISE.

POOL ELECTRICAL CONTRACTOR TO PROVIDE ALL ELECTRICAL AND CONNECTIONS FROM POOL PANEL TO POOL EQUIPMENT. POOL PANEL AND ALL BREAKERS BY GENERAL CONTRACTOR.

HVAC AND MECHANICAL AT POOL AREAS AND EQUIPMENT ROOM (INCLUDING BUT NOT LIMITED TO: DUCTWORK, COMBUSTION AIR, VENTILATION, GAS, FRESH WATER SUPPLY AND BACKFLOW PREVENTER) UNDER SEPARATE PERMIT AND SHALL BE PROVIDED, INSTALLED, AND CONNECTED BY GENERAL CONTRACTOR.

REFER TO GENERAL NOTES ON THIS SHEET FOR ADDITIONAL INFORMATION.

GENERAL NOTES

1. ALL NECESSARY SITE PREPARATION, STROUGH GRADING, POOL/SPA CORNER LOCATIONS AND BENCH MARK/ELEVATIONS ARE BY GENERAL CONTRACTOR.
2. HVAC AND MECHANICAL AT POOL AREAS AND EQUIPMENT ROOM (INCLUDING BUT NOT LIMITED TO: DUCTWORK, COMBUSTION AIR, VENTILATION, GAS, FRESH WATER SUPPLY AND BACKFLOW PREVENTER) UNDER SEPARATE PERMIT AND SHALL BE PROVIDED, INSTALLED, AND CONNECTED BY GENERAL CONTRACTOR.
3. POOL ELECTRICAL CONTRACTOR TO PROVIDE ALL ELECTRICAL AND CONNECTIONS FROM POOL PANEL TO POOL EQUIPMENT. POOL PANEL AND ALL POOL BREAKERS BY GENERAL CONTRACTOR.
4. ELECTRICAL INSPECTION SHALL APPROVE GROUNDING OF REINFORCING, BONDING AND CONDUIT PRIOR TO THE APPROVAL OF REINFORCING STEEL OR POURING OF CONCRETE OR SHOTCRETE.
5. LIGHT NICHES ARE INSTALLED BY POOL CONTRACTOR AT TIME OF POOL REBAR INSTALLATION. POOL ELECTRICAL CONTRACTOR SHALL RUN CONDUIT FROM THE LIGHT NICHES TO RESPECTIVE JUNCTION BOXES. ALL BONDING AND WIRING (INCL: LIGHTS, HANDRAILS, ANCHORS, HANDICAP LIFT ANCHOR, REINFORCING STEEL, ETC.) IS TO BE DONE BY THE POOL ELECTRICAL CONTRACTOR
6. REFER TO EP SHEETS IN THIS SET OF DRAWINGS FOR ALL ELECTRICAL AND NOTES.
7. DECK SHALL SLOPE 1/4" PER FT. AWAY FROM THE POOL TO DECK DRAINS TO SEWER BY GENERAL CONTRACTOR. NOTE: DECK DRAINS MUST NOT HAVE DIRECT CONNECTION TO SEWER. GENERAL CONTRACTOR TO PROVIDE CONNECTION, SUMP PUMP OR AIR GAP AND PLUMBING TO SEWER.
8. ALL SURFACE WATER SHALL DRAIN AWAY FROM POOL TO DECK DRAINS.
9. ALL POOL AREA DECK DRAINS BY POOL CONTRACTOR. GENERAL CONTRACTOR TO PROVIDE UNDERGROUND PLUMBING AND CONNECTIONS AT DECK DRAINS AND SEWER.
10. BACKWASH SUMP AND UNDERGROUND PLUMBING TO SEWER BY GENERAL CONTRACTOR.
11. A SUFFICIENT # OF HOSE BIBBS WITH HOSE VACUUM BREAKER BACKFLOW PREVENTERS FOR CLEANING THE DECK AREAS SHALL BE PROVIDED BY GENERAL CONTRACTOR. THESE HOSE BIBBS SHALL BE PLACED TO ALLOW THE PROPER CLEANING OF THE ENTIRE DECK WITH A MAXIMUM HOSE LENGTH OF FIFTY (50) FEET.
12. ALL CAULKING SURROUNDING POOL, COPING AND EXPANSION JOINTS BY POOL CONTRACTOR. PRODUCT: DECK-O-SEAL TWO-PART, POLYSULFIDE-BASED JOINT SEALANT IS A PREMIUM-GRADE, POURABLE, SELF-LEVELING SEALANT.
13. POOLS TO BE ENCLOSED BY WALL/FENCE WITH SELF CLOSING, SELF LATCHING GATES WITH LOCKABLE LATCHES BY GENERAL CONTRACTOR.
14. EMERGENCY SHUT-OFF SWITCH PROVIDED AND INSTALLED BY POOL CONTRACTOR. AN EMERGENCY SHUTDOWN STATION SHALL BE PROVIDED AT A PLACE THAT IS RELATIVELY CONVENIENT. THIS STATION SHALL DISABLE ALL SPA AND POOL CIRCULATION, MECHANICAL, CHEMICAL FEED AND ELECTRICAL DEVICES AND MUST BE READILY ACCESSIBLE TO THE USERS, NOT LESS THAN 5FT. AWAY, ADJACENT TO, AND WITHIN SITE OF THE SPA.
15. POOL CONTRACTOR TO PROVIDE AND INSTALL ONE 15 MINUTE TIMER AND CONNECT TO SPA JET PUMP. LOCATE WHERE BATHER MUST EXIT SPA TO RESET. SHALL BE LOCATED AT LEAST 5FT, MEASURED HORIZONTALLY, FROM THE INSIDE WALL OF THE SPA.
16. WALL MOUNTED TIMERS, CONTROLS, ACCESS PANELS ETC. SHALL BE LOCATED TO FALL WITHIN TILE WAINSCOT OR ABOVE IT, AVOIDING NEED TO "STEP" TILE AROUND ROUGH-IN CONDITIONS. COORDINATE WITH GENERAL CONTRACTOR.
17. DECK LIGHTING BY GENERAL CONTRACTOR.
18. ALL PLUMBING TO BE NSF APPROVED SCHEDULE 40 PVC UNLESS NOTED OTHERWISE
19. PIPING DIAGRAM IS PROVIDED TO IDENTIFY EQUIPMENT AND ACCESSORIES, TO INDICATE RELATIVE POSITIONS ON THE CIRCULATION LOOP, AND TO SHOW PIPE SIZES AND FLOW DIRECTION. THE FINAL CONFIGURATION MUST BE COORDINATED WITH SITE CONDITIONS.
20. ALL PIPING, FILTERS, HEATERS, PUMPS, ETC. ARE TO BE LABELED.
21. ALL ANTI-ENTRAPMENT DEVICES, DRAIN COVERS, SUCTION OUTLETS AND EQUALIZER COVERS SHALL COMPLY WITH THE ASME/ANSI A112.19.8 PERFORMANCE STANDARD, OR ANY SUCCESSOR STANDARD AND VIRGINIA GRAEME BAKER POOL AND SPA SAFETY ACT.
22. FLOW MEASUREMENT: A FLOW METER OR OTHER DEVICE WHICH GIVES A FLOW RATE IN GPM MUST BE PROVIDED. FLOW METER SHALL BE LOCATED ON A STRAIGHT RUN OF PIPE A MINIMUM OF 10 TIMES THE PIPE DIAMETER FROM ANY DISTURBANCES BEFORE THE METER AND 4 TIMES THE PIPE DIAMETER AFTER THE METER.
23. THE CHEMICAL FEED SYSTEM MUST BE DESIGNED TO PROVIDE 24 HR. SUPPLY OF DISINFECTANT.
24. BATHYR LOAD DETERMINED AS FOLLOWS:
POOL - 1 PER 20 SQ.FT.
SPA AREA - 1 PER 10 SQ.FT.
25. PROVIDE AN INLINE THERMOMETER ON THE RETURN LINES.
POOL WATER TEMPERATURE SHALL BE MAINTAINED BETWEEN 82°F AND 86°F MIN.
MAXIMUM SPA WATER TEMPERATURE IS 104°F.
26. ALL PIPING MUST PASS A PRESSURE TEST AT 25 PSI FOR 30 MINUTES MINIMUM.
27. POOL AND SPA HEATER TO BE INSTALLED PER MANUFACTURERS OPERATING AND INSTALLATION INSTRUCTIONS AND IN ACCORDANCE WITH LOCAL BUILDING CODES. GENERAL CONTRACTOR SHALL PROVIDE COMBUSTION AIR AND VENTING PER MANUFACTURER RECOMMENDATIONS. GENERAL CONTRACTOR SHALL CONNECT GAS LINES TO HEATERS AND CONNECT PRESSURE RELIEF VALVES TO FLOOR DRAINS, AND INSTALL DUCTWORK, VENTILATION ETC. AS REQUIRED. PROVIDE AT LEAST THE MINIMUM SPACE REQUIRED AROUND THE HEATER PER MANUFACTURER'S SPECIFICATIONS.
28. ANY DEVIATION FROM THE PLANS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT AND/OR ENGINEER SHALL BE CAUSE FOR REJECTION OF METHODS AND/OR MATERIALS. ANY COSTS INCURRED TO CORRECT SUCH DEVIATION TO THE SATISFACTION OF THE ARCHITECT AND/OR ENGINEER SHALL BE THE CONTRACTORS RESPONSIBILITY.
29. NO GROUND WATER SHALL BE ABOVE ANY PORTION OF THE POOL CONSTRUCTION.
30. WASTEWATER FROM PERIODIC DRAINING OF POOL OR SPA SHALL BE DISCHARGED INTO THE SANITARY SEWER.
31. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE. PLANS AND DETAILS ARE TO SCALE UNLESS NOTED. WHILE DRAWING SCALE IS BELIEVED TO BE RELIABLE, THE ACCURACY AND COMPLETENESS IS NOT GUARANTEED BY THE ENGINEER. CONSULT THE ARCHITECT OR ENGINEER OF RECORD FOR DIMENSION VERIFICATION. NOTIFY ARCHITECT OR ENGINEER OF ANY DISCREPANCIES IN DIMENSIONS BETWEEN THE ARCHITECTURAL AND STRUCTURAL DOCUMENTS BEFORE PROCEEDING WITH THE WORK.

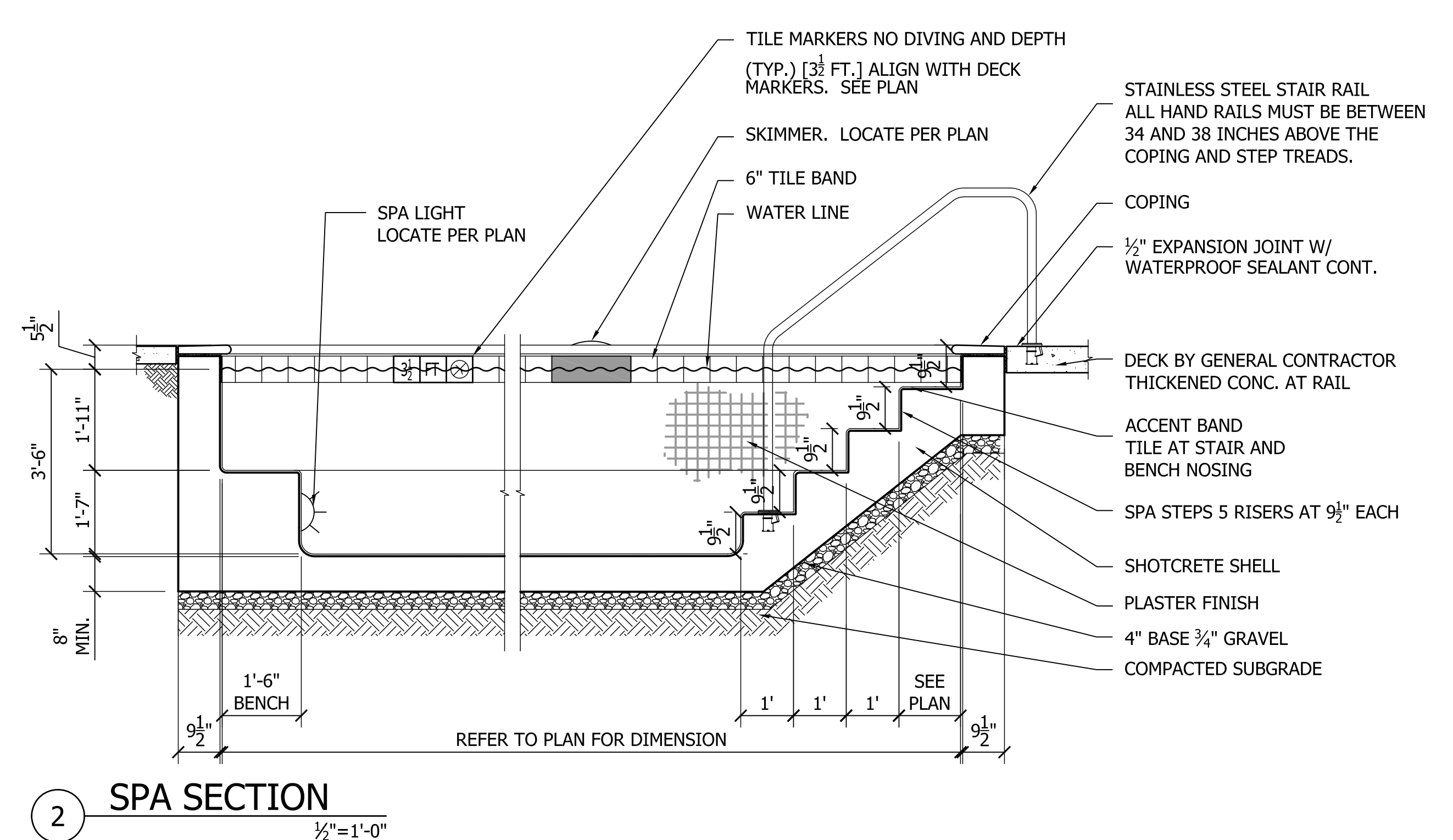
SHEET INDEX

SHEET NUMBER	SHEET DESCRIPTION
SP001	TITLE SHEET & GENERAL NOTES
SP101	POOL & SPA LOCATION PLAN
SP111	POOL & SPA PLANS & SECTIONS
SP201	POOL & SPA SUCTION AND RETURN PLAN
SP202	POOL & SPA SUCTION AND RETURN ENLARGEMENT PLAN
SP203	EQUIPMENT PLUMBING, EQUIPMENT LAYOUT PLAN & SCHEDULE
SP301	DATA & EQUIPMENT SCHEDULE
SP401	POOL & SPA DETAILS
SP402	POOL & SPA DETAILS
SP403	POOL & SPA DETAILS
EP1	ELECTRICAL NOTES AND DIAGRAMS
EP2	ELECTRICAL PLAN & SCHEDULES

PROJECT PARTICIPANTS		PROJECT DATA	BUILDING CODES
POOL/SPA CONSULTANT COLORADO POOL SYSTEMS "CPS" 2801 YOUNGFIELD STREET SUITE 260 GOLDEN, CO 80401 PHONE: 303-420-7321		<u>PROJECT ADDRESS</u> 1855 SKI TIME SQUARE DR STEAMBOAT SPRINGS, CO 80487	COLORADO SWIMMING POOL AND MINERAL BATH REGULATIONS VIRGINIA GRAEME BAKER ACT (VGB) INTERNATIONAL BUILDING CODE 2015 INTERNATIONAL MECHANICAL CODE 2015 INTERNATIONAL PLUMBING CODE 2015 NATIONAL ELECTRIC CODE 2017
<u>ELECTRICAL ENGINEER</u> ALBER ENGINEERING 5173 OAK HOLLOW DR MORRISON, CO 80465 CONTACT: JERRY ALBER EMAIL: alberengineering@gmail.com PHONE: (303) 736-2739		<u>PROJECT COORDINATION</u> THE POOL AND ALL RELATED EQUIPMENT SHALL BE REVIEWED BY GOVERNING JURISDICTION. SUBMITTAL TO BUILDING AND HEALTH DEPT. BY POOL CONTRACTOR.	
<u>MECHANICAL ENGINEER</u> ARWIN PRIEST 242 MOUNTAIN CLOUD CIRCLE HIGHLANDS RANCH, CO 80126 CONTACT: ARWIN PRIEST EMAIL: ARWIN@PEDENVER.COM PHONE: 303-947-6394			

DRAWING SYMBOLS

SECTION	
WALL OR DETAIL SECTION	
DETAIL SECTION (NONDIRECTIONAL)	
ENLARGED DETAIL REFERENCE	
ELEVATION TARGET	
NORTH ARROW	
CENTERLINE	
DRAWING LABEL	
GRAPHIC SCALE	
REVISION CLOUD & NUMBER	
SPOT ELEVATION	
ALIGN NOTE	
BREAK LINE	

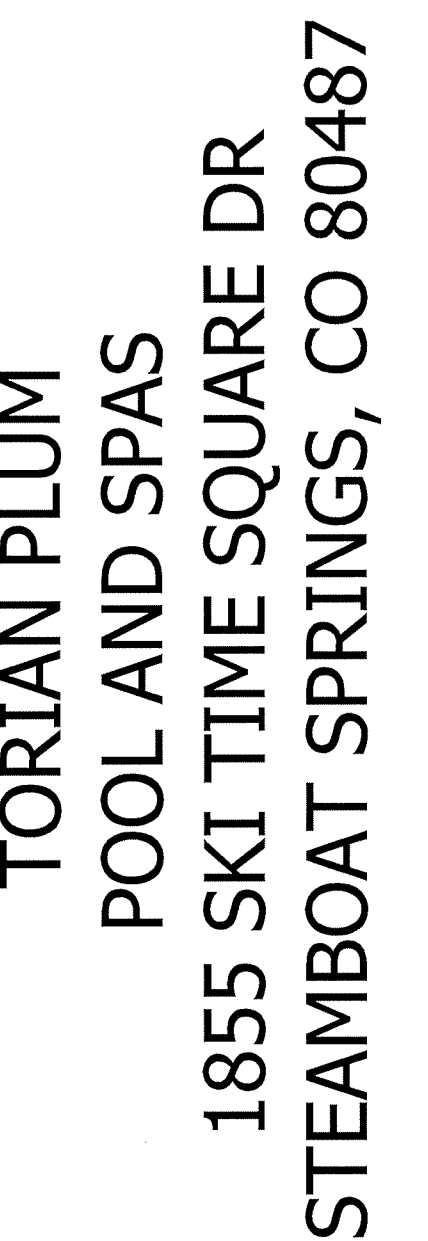


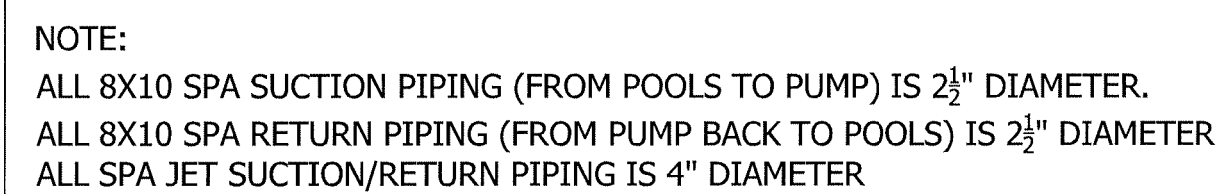
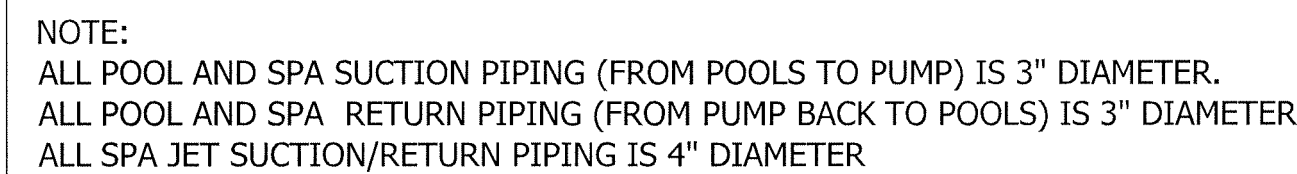
306.3 BACKFILLING. BACKFILL SHALL BE FREE FROM DISCARDED CON-
STRUCTION MATERIAL AND DEBRIS. LOOSE EARTH FREE FROM ROCKS,
BRO-KEN CONCRETE AND FROZEN CHUNKS SHALL BE PLACED IN THE TRENCH IN 6-INCH (152 MM) LAYERS AND TAMPED IN PLACE UNTIL THE
CROWN OF THE PIPE IS COVERED BY 12 INCHES (305 MM) OF TAMPED EARTH. THE BACKFILL UNDER AND BESIDE THE PIPE SHALL BE
COMPACTED FOR PIPE SUPPORT. BACKFILL SHALL BE BROUGHT UP EVENLY ON BOTH SIDES OF THE PIPE SO THAT THE PIPE REMAINS ALIGNED.
IN INSTANCES WHERE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR MATERIALS ARE MORE RESTRICTIVE THAN THOSE
PRESCRIBED BY THE CODE, THE MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE MORE RESTRICTIVE REQUIREMENT.



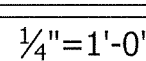
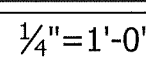
PIPING CONVEYING CHEMICALS SHALL BE OF CORROSION RESISTANT TYPE.





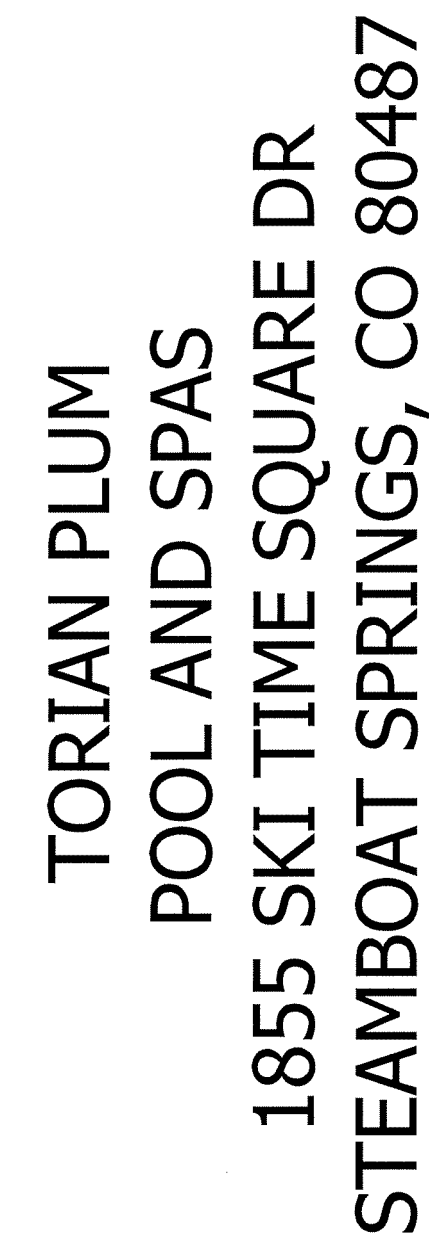

$$\frac{1}{2}'' = 1' - 0'$$

$$\frac{1}{2}'' = 1' - 0''$$

FITTINGS THAT CONNECT DIRECTLY TO THE HEATER MANIFOLD MUST BE MADE OF CPVC UNLESS OTHERWISE SPECIFIED BY MANUFACTURER. THESE FITTINGS ARE PROVIDED WITH THE HEATER.
REFER TO MANUFACTURES SPECIFICATIONS FOR INSTALLATION.

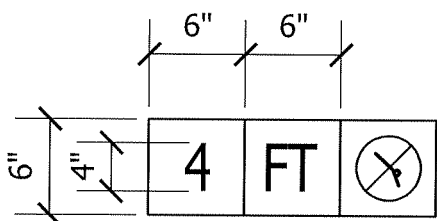


R C R B D
RECORD SET

8X10 SPA #1 EQUIPMENT ROOM SCHEDULE (IN EQUIPMENT ROOM)					
	ITEM	MANUFACTURER	MODEL NO.	DESCRIPTION	NO. REQD.
60	FILTER	PENTAIR	CCP-240	CARTRIDGE FILTER	1
61	CIRCULATION PUMP	PENTAIR	WFE-3	WHISPERFLO, 1 HP, 115/208-230V	1
62	HEATER	RAYPAK	P-R206A-EN-C #52	195.5 BTU, HIGH ALTITUDE, NATURAL GAS	1
63	THERMOMETER	PENTAIR	SL1DW	INLINE THERMOMETER	1
64	FLOW METER	FLOW VIZ	FV-C	2" X 2½" 10-110 GPM FLOW RANGE	1
65	CHECK VALVE	JANDY	7305	2"-2½" CHECK VALVE	1
66	2 PORT VALVE	JANDY	4718	2½"-3" 2 PORT VALVE	3
67	VACUUM GAUGE	SUPER PRO	SPG-06-1008	2" 30# ¼" BTM STEEL	1
68	PRESSURE GAUGE	WIKA	113.13 GLYCERINE FILLED	60 PSI INFLUENT & EFFLUENT AT SAME HEIGHT	2
69	WATER LEVEL CONTROLLER	MILLENNIUM	LEVELOR K1100	ELECTRONIC WATER LEVELER	1
70	CHLORINATOR	PENTAIR	300-29X	TRICHLOR EROSION FEEDER	1
71	HYDROTHERAPY JET PUMP	PENTAIR	WFE-12	WHISPERFLO, 3 HP, 208-230V	1



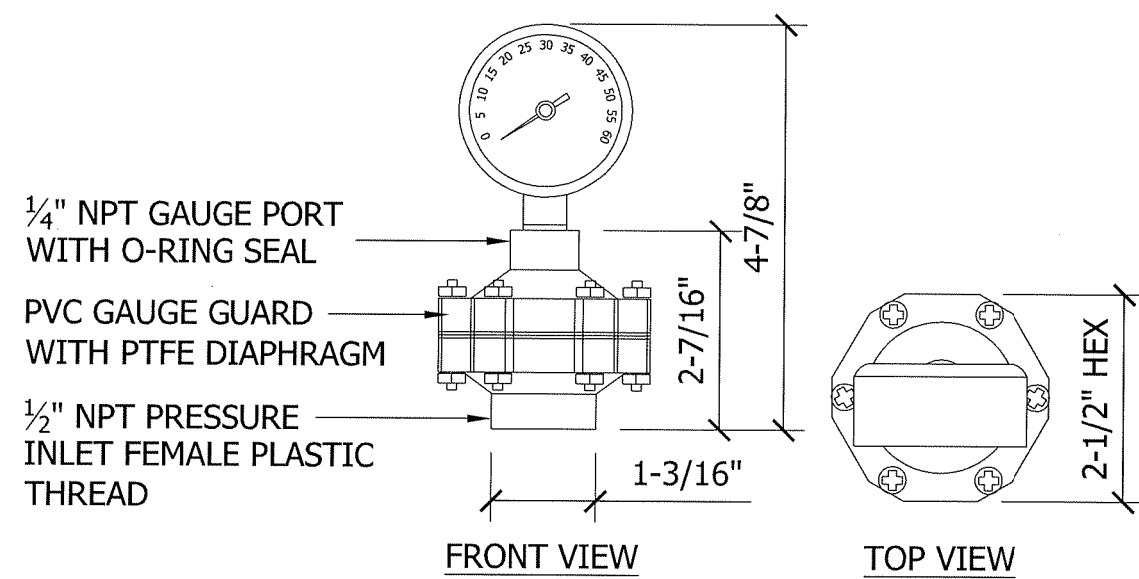
NOTE:
LETTERS AND NUMBERS SHALL BE BLACK IN
COLOR ON A WHITE BACKGROUND IN
ACCORDANCE.
THE UNIVERSAL NO DIVING SYMBOL SHALL
CONSIST OF A RED CIRCLE WITH A RED
SLASH THROUGH IT SUPERIMPOSED OVER
THE IMAGE OF A DIVER.



4" HIGH BLACK NUMBERS ON FROSTPROOF SMOOTH TILE.
SPACED AT NO MORE THAN 25 FT. INTERVALS.

1 WATERLINE TILE MARKERS

IN ADDITION:
PROVIDE METRIC IF REQUIRED BY THE
LOCAL JURISDICTION

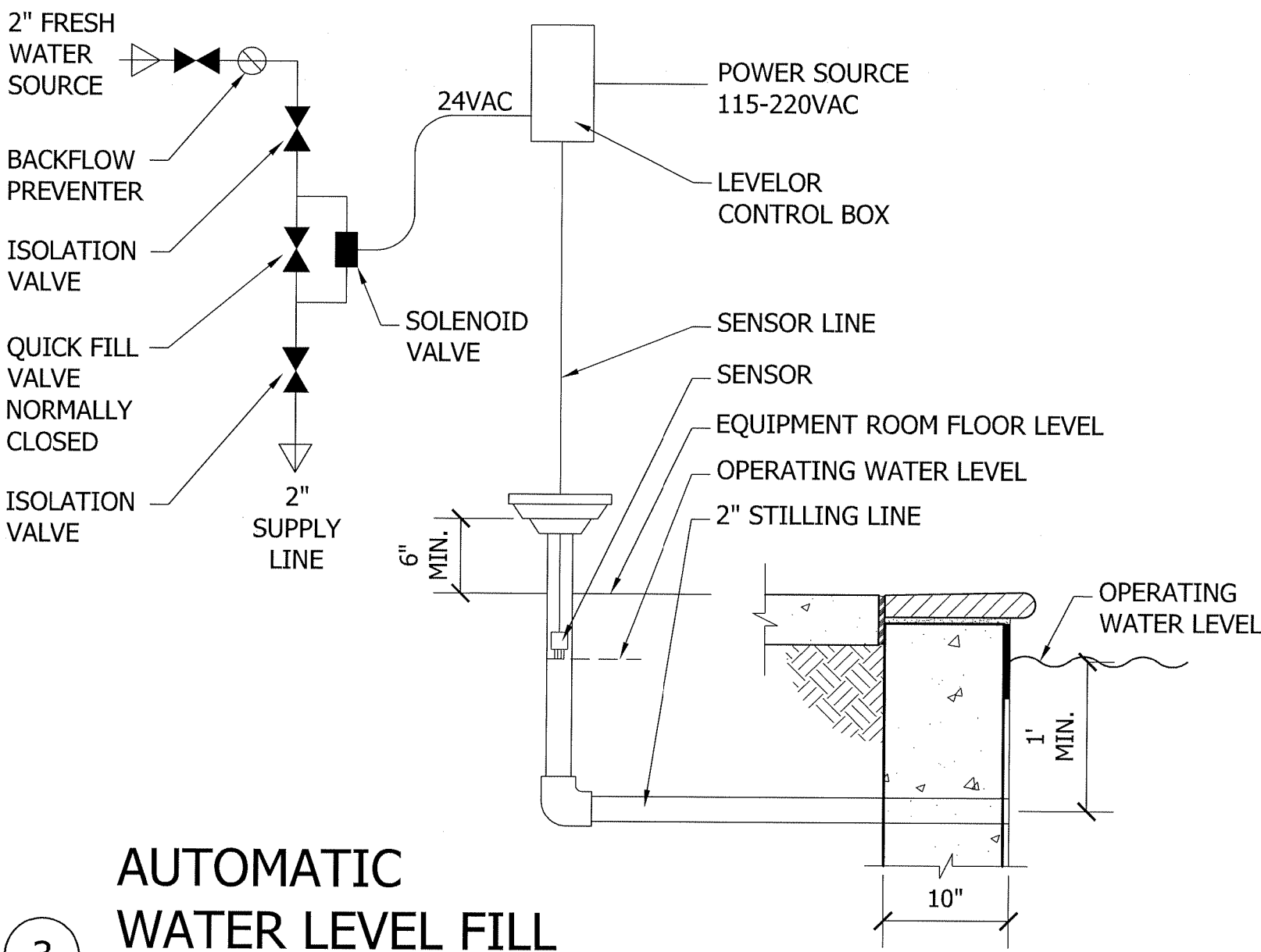


NOTE:
GAUGE AND GAUGE GUARD AVAILABLE PRE-ASSEMBLED AND PRE-FILLED
BY SPEARS

2 PRESSURE GAUGE DETAIL

NTS

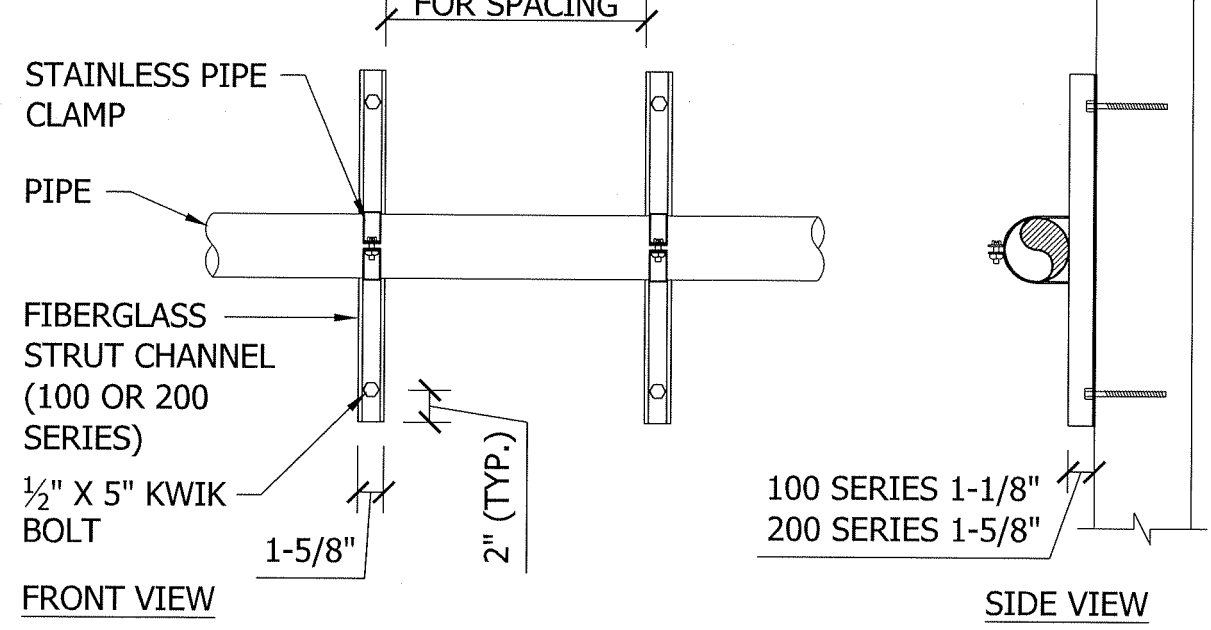
DIAGRAM PROVIDED TO IDENTIFY EQUIPMENT AND ACCESSORIES, TO INDICATE RELATIVE
POSITIONS ON THE CIRCULATION LOOP, AND TO SHOW PIPE SIZES AND FLOW DIRECTION. REFER
TO PLAN FOR LOCATION OF AUTO FILL SYSTEM AND STILLING LINE.



3 AUTOMATIC WATER LEVEL FILL

1"=1'-0"

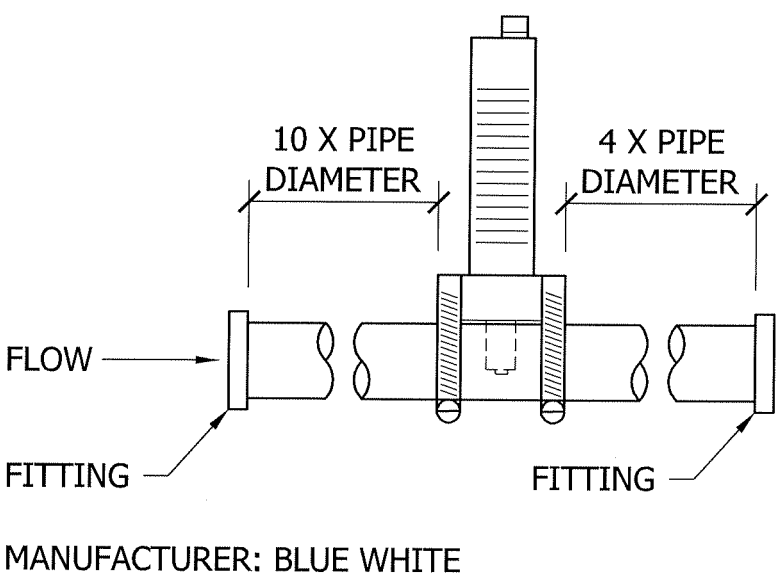
R C R B D
RECORD SET



FIXED PIPE CLAMPS by StrutTech		
PIPE SIZE	MAX. SPACING	MODEL NUMBER
≤ 1-1/2"	4'-0"	UFCPU150SS
2"	4'-0"	UFCPU200SS
2-1/2"	4'-0"	UFCPU250SS
3"	4'-0"	UFCPU300SS
4"	4'-0"	UFCPU400SS
6"	4'-0"	UFCPU600SS
8"	4'-0"	UFCPU800SS

4 PVC PIPE WALL HANGER DETAIL

NTS

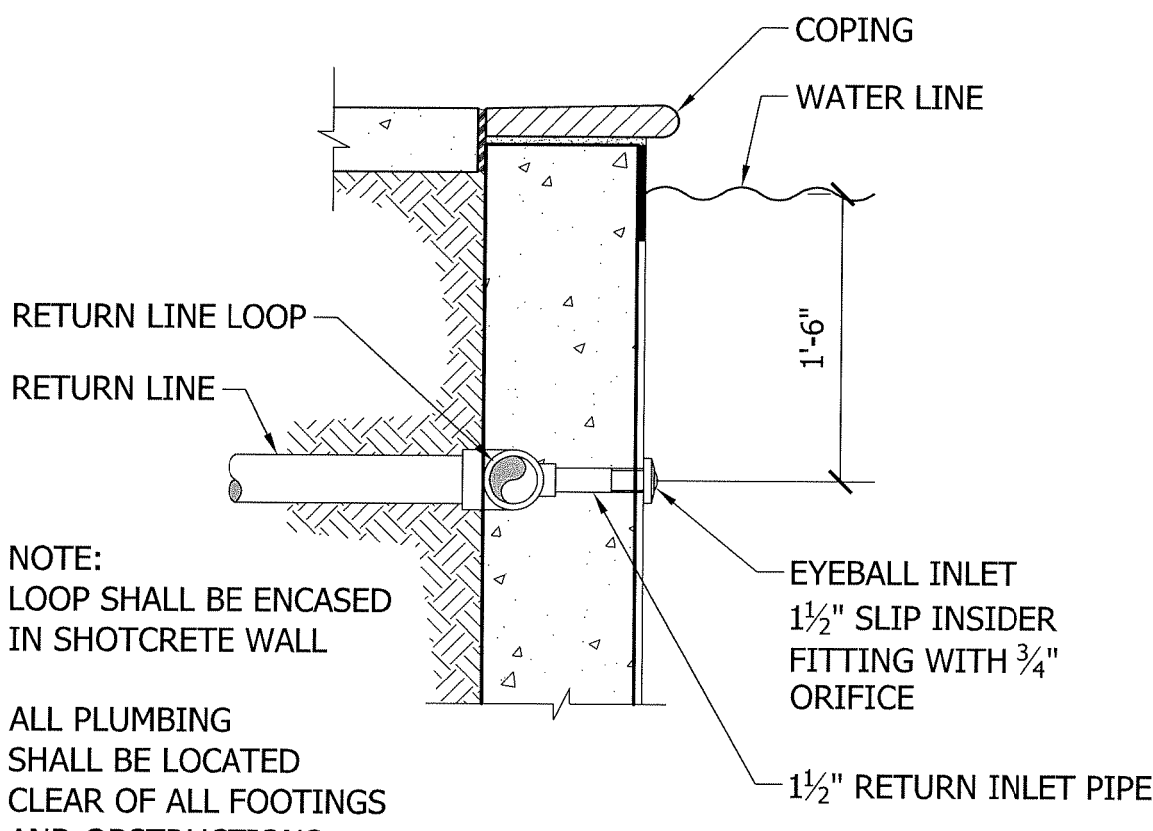


MODELS FOR SCH40 PVC PIPE		
PIPE SIZE	GPM FLOW RANGE	MODEL NUMBER
1"	5 to 35	F-30100P
1"	2 to 10	F-30100PR
1-1/4"	15 to 75	F-30125P
1-1/4"	5 to 35	F-30125PR
1-1/2"	20 to 100	F-30150P
1-1/2"	9 to 30	F-30150PR
2"	40 to 150	F-30200P
2"	15 to 70	F-30200PR
2-1/2"	60 to 240	F-30250P
3"	80 to 300	F-30300P
3"	40 to 140	F-30300PR
4"	125 to 500	F-30400P
6"	250 to 1050	F-30600P
8"	500 to 1900	F-30800P

FLOW METER SHALL BE LOCATED ON A STRAIGHT RUN
OF PIPE A MINIMUM OF 10 TIMES THE PIPE DIAMETER
FROM ANY DISTURBANCES BEFORE THE METER AND 4
TIMES THE PIPE DIAMETER AFTER THE METER.

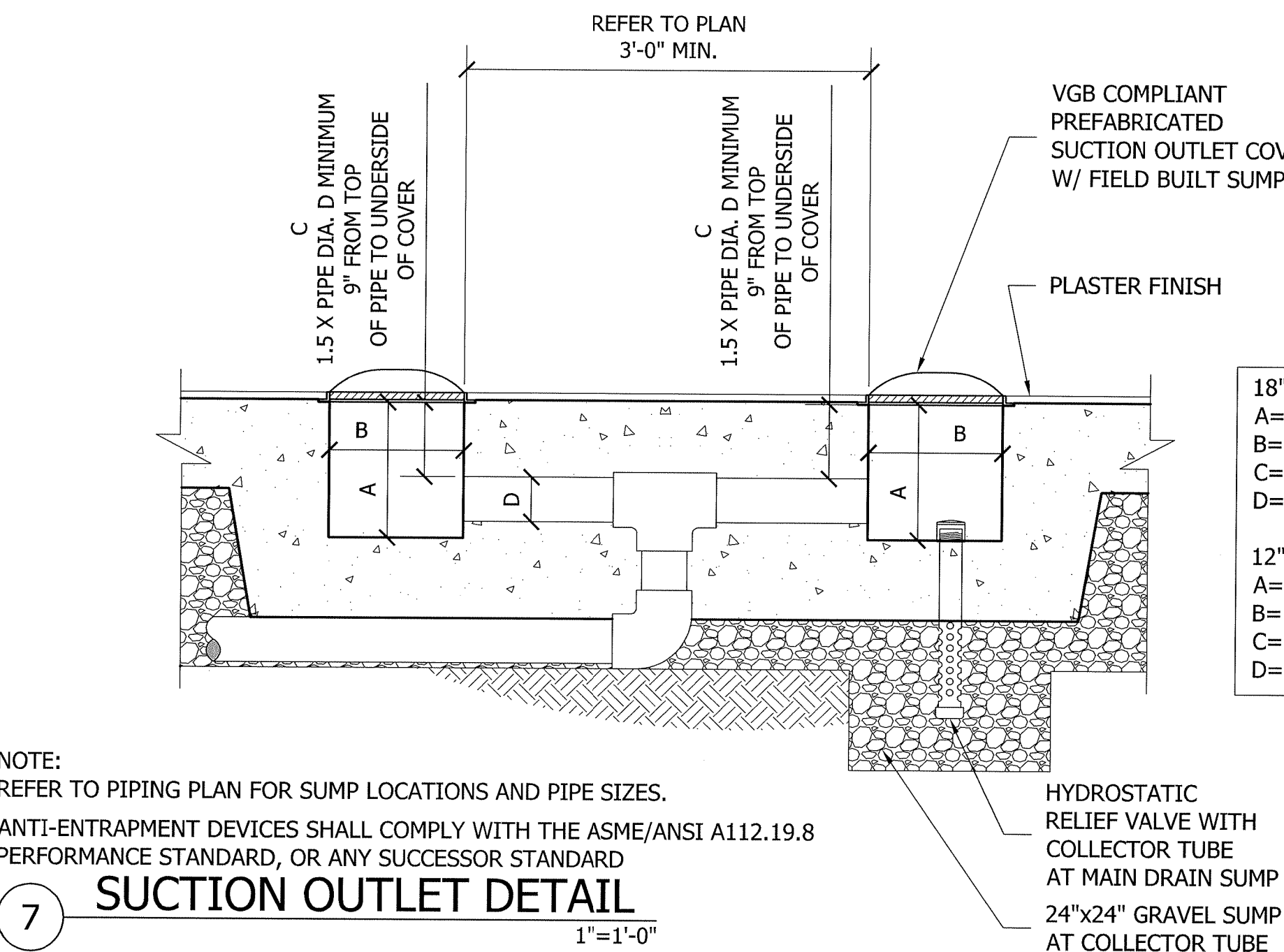
5 FLOW METER DETAIL

NTS



6 POOL RETURN INLET

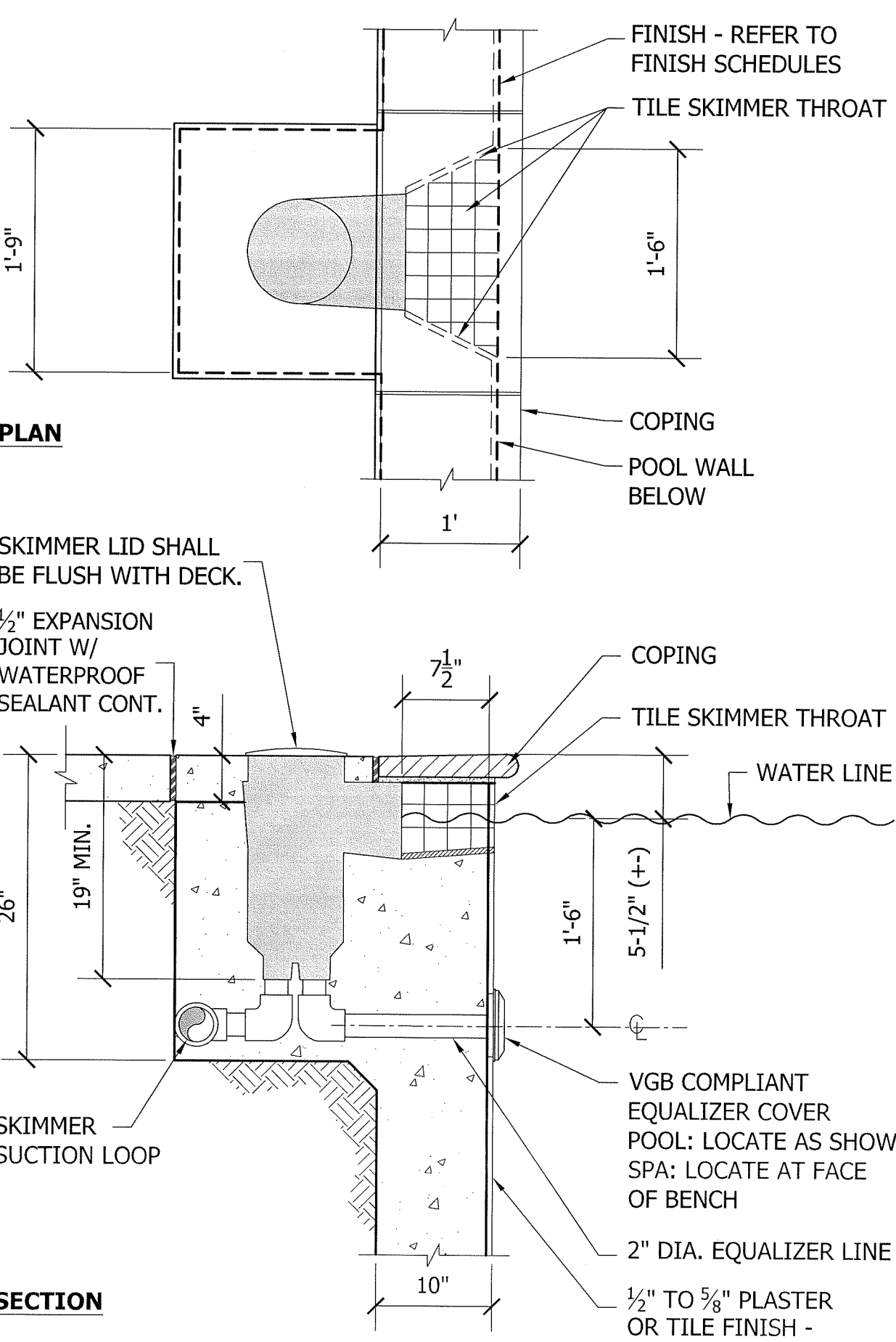
1"=1'-0"



NOTE:
REFER TO PIPING PLAN FOR SUMP LOCATIONS AND PIPE SIZES.
ANTI-ENTRAPMENT DEVICES SHALL COMPLY WITH THE ASME/ANSI A112.19.8
PERFORMANCE STANDARD, OR ANY SUCCESSOR STANDARD

7 SUCTION OUTLET DETAIL

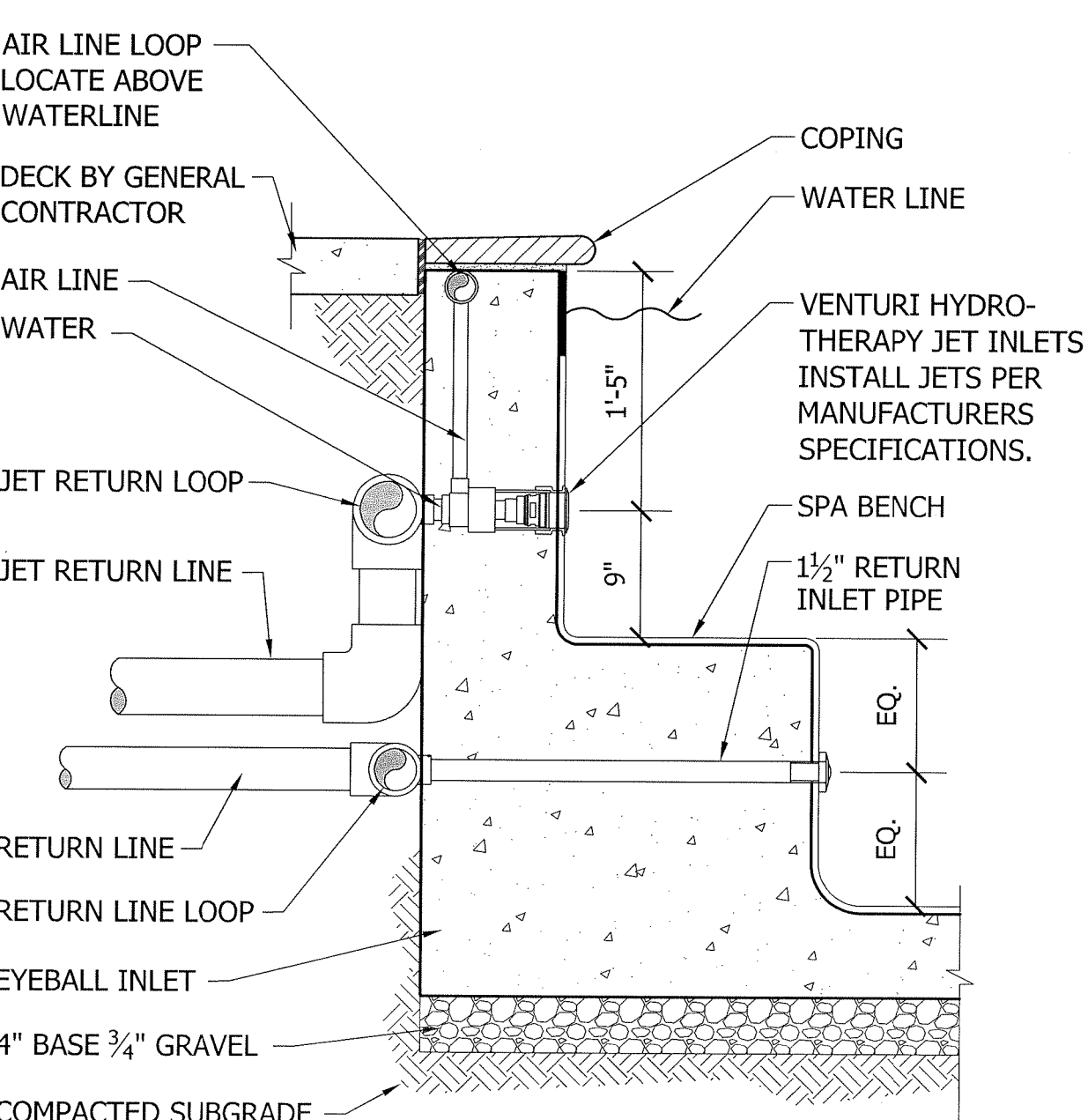
1"=1'-0"



ANTI-ENTRAPMENT
DEVICES SHALL COMPLY
WITH THE ASME/ANSI
A112.19.8 PERFORMANCE
STANDARD, OR ANY
SUCCESSOR STANDARD

8 SKIMMER DETAIL

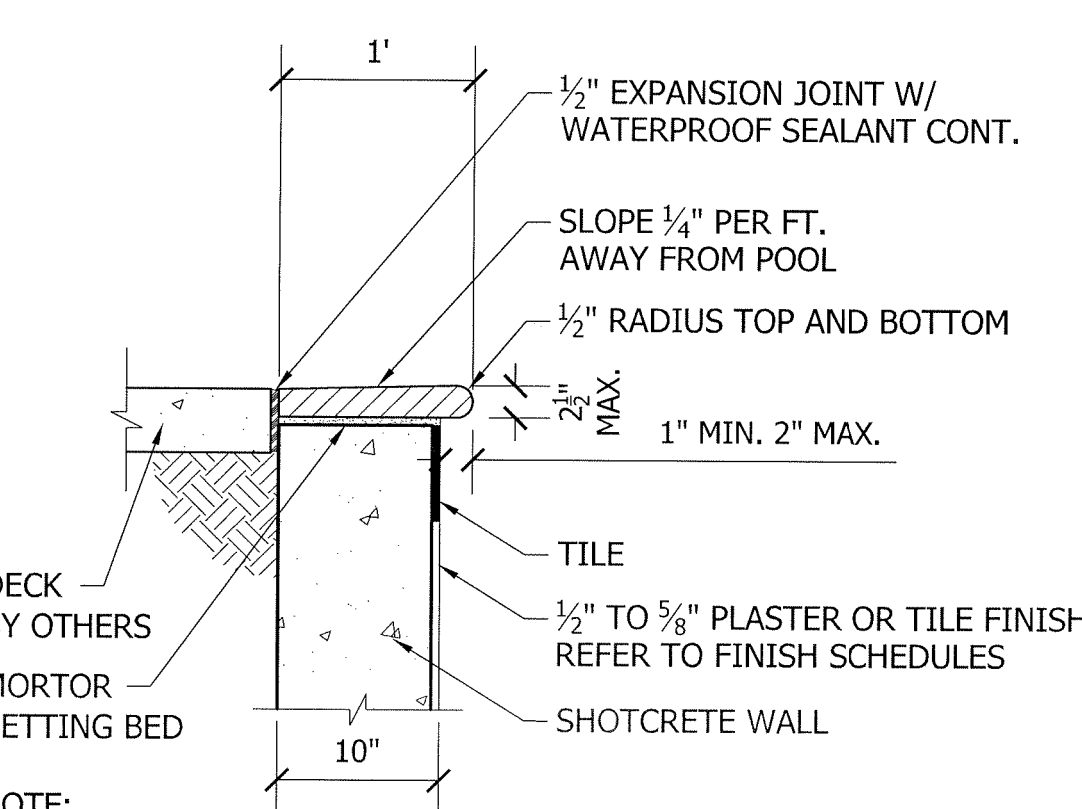
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NOTE:
ALL PLUMBING SHALL BE LOCATED CLEAR OF ALL FOOTINGS AND OBSTRUCTIONS

9 SPA RETURN INLET & JET DETAIL

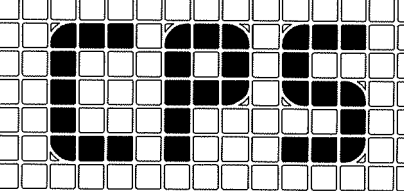
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NOTE:
COPING STONES TO HAVE A SLIP RESISTANT SURFACE FINISH. THE
OVERHANG OF THE COPING MUST BE A MIN. OF 1" AND MUST NOT
EXCEED 2".

10 PRECAST COPING

1"=1'-0"



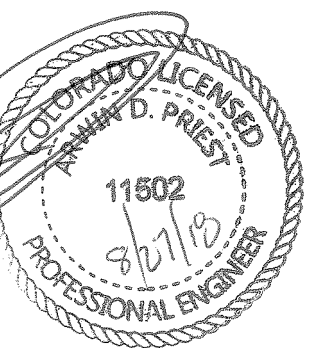
2801 Youngfield St.
Ste. 260 Golden, CO 80401
Office: 303-420-7321 Fax: 303-420-7207



Arwin Priest P.E., P.Eng.
242 Mountain Cloud Circle
Highlands Ranch, CO 80126

TORIAN PLUM
POOL AND SPAS
1855 SKI TIME SQUARE DR
STEAMBOAT SPRINGS, CO 80487

Seal



Drawn By	Reviewed By	Review Date
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No.	Revision/Issue	Date
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Project No.

Drawing Title
POOL & SPA DETAILS

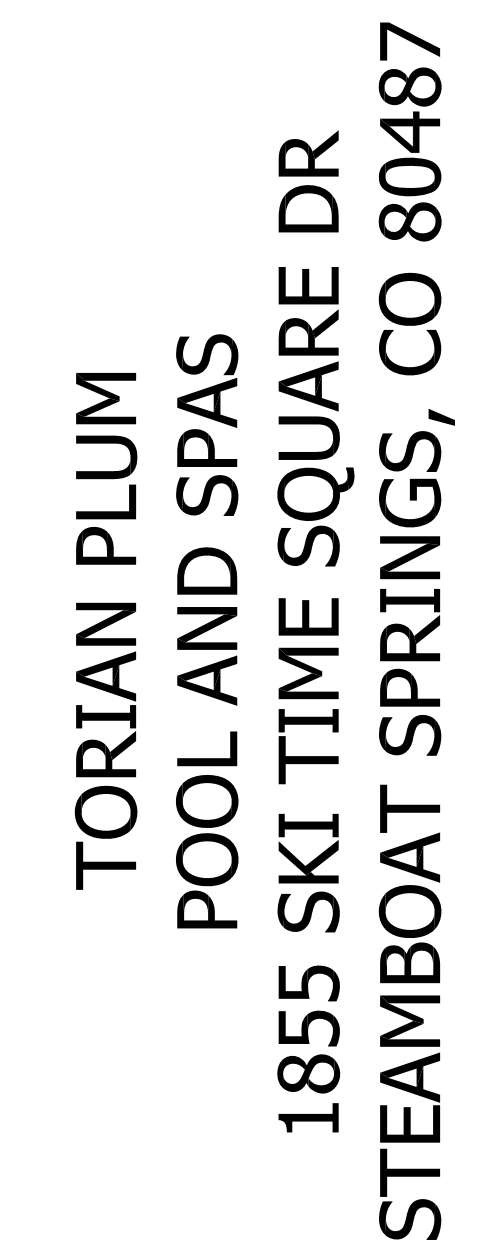
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Sheet No.

SP401



- THE CONTRACTOR SHALL INFORM ARCHITECT AND ENGINEER CLEARLY IN WRITING AND PROVIDE DOCUMENTATION FOR THE REVIEW OF ANY SUBSTITUTIONS OR DEVIATIONS OF REQUIREMENTS OF THE CONTRACT DOCUMENTS.



SP402

SPECIAL INSPECTIONS	
VERIFICATION AND INSPECTION	CONTINUOUS OR PERIODIC
TABLE 1705.3 <u>CONCRETE</u>	
INSPECTION OF REINFORCING STEEL AND PLACEMENT	PERIODIC
VERIFYING USE OF REQUIRED DESIGN MIX	PERIODIC
AT TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	CONTINUOUS
INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS
TABLE 1705.6 <u>INSPECTION OF SOILS</u>	
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIRED BEARING CAPACITY.	PERIODIC
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	PERIODIC
PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC

THE RANGER POOL LIFT

INFO FOR POOL & SPA LIFTS

RECORD SET

THE LIFT HAS A ROTO-MOLDED ONE-PIECE RIGID PLASTIC SEAT WITH BACK SUPPORT AND TWO FLIP-UP ARMRESTS.

THE SEAT HEIGHT ON THE LIFT IS BETWEEN 18 AND 18.25 INCHES ABOVE THE DECK AT THE REAR OF THE SEAT, AND NOT MORE THAN 19 INCHES AT THE FRONT OF THE SEAT.

THE SEAT ON THE LIFT HAS TWO ARMRESTS, BOTH OF WHICH WILL FLIP UP CLEAR OF THE SEAT TO HELP FACILITATE LATERAL TRANSFERS.

THE SEAT BACK ON THE LIFT IS AT LEAST 17 INCHES HIGH.

THE LIFT COMES WITH AN ADJUSTABLE SEAT BELT WITH VELCRO™-STYLE ATTACHMENTS AS STANDARD EQUIPMENT. THE CONTROLS ARE LOCATED AT SEAT HEIGHT AND ARE HELD BY AND MOVE WITH THE USER. THE CONTROLS HAVE BEEN TESTED BY THE MANUFACTURER AND REQUIRE 1 POUND (4.45 NEWTONS) OF FORCE TO ACTIVATE.

THE LIFT DOES OFFER UNASSISTED SELF-OPERATION FROM BOTH THE DECK AND THE IN-POOL POSITIONS BY PROVIDING A HANDHELD REMOTE CONTROL SYSTEM THAT CAN BE MOVED WITH THE PERSON USING THE LIFT OR CAN EASILY BE RETRIEVED BY AN INDIVIDUAL IN THE WATER OR ON THE DECK.

THE LIFT IS ANCHORED OR COUNTER BALANCED (IN THE CASE OF OUR PORTABLE UNITS) WITH ENOUGH COUNTER WEIGHT TO STEADY THE LIFT WHEN A PATRON IS ENTERING OR EXITING THE SEAT. THE ANCHOR SYSTEMS ARE DESIGNED AND CERTIFIED TO WITHSTAND SEISMIC ZONE 4 ACTIVITY WHEN INSTALLED ACCORDING TO THE INSTRUCTIONS. THE COUNTERWEIGHT SYSTEM IS INDEPENDENTLY CERTIFIED TO PREVENT OVERTURN WHEN LOADED TO THE MAXIMUM CAPACITY.

THE LIFT HAS BEEN LIVE LOAD TESTED TO AT LEAST 350 LBS WITH A MINIMUM 1.5 SAFETY FACTOR.

THE LIFT IS ADJUSTABLE SO THAT A PATRON CAN STOP THE LIFT AT ANY DEPTH POSITION. THE MANUAL ALSO STATES THAT THE LIFT BE POSITIONED TO ACCESS WATER NO DEEPER THAN 48 INCHES AND NO LESS THAN 36 INCHES DEEP. IDEAL DECK TO POOL FLOOR INSTALLATION HEIGHT IS 48 INCHES.

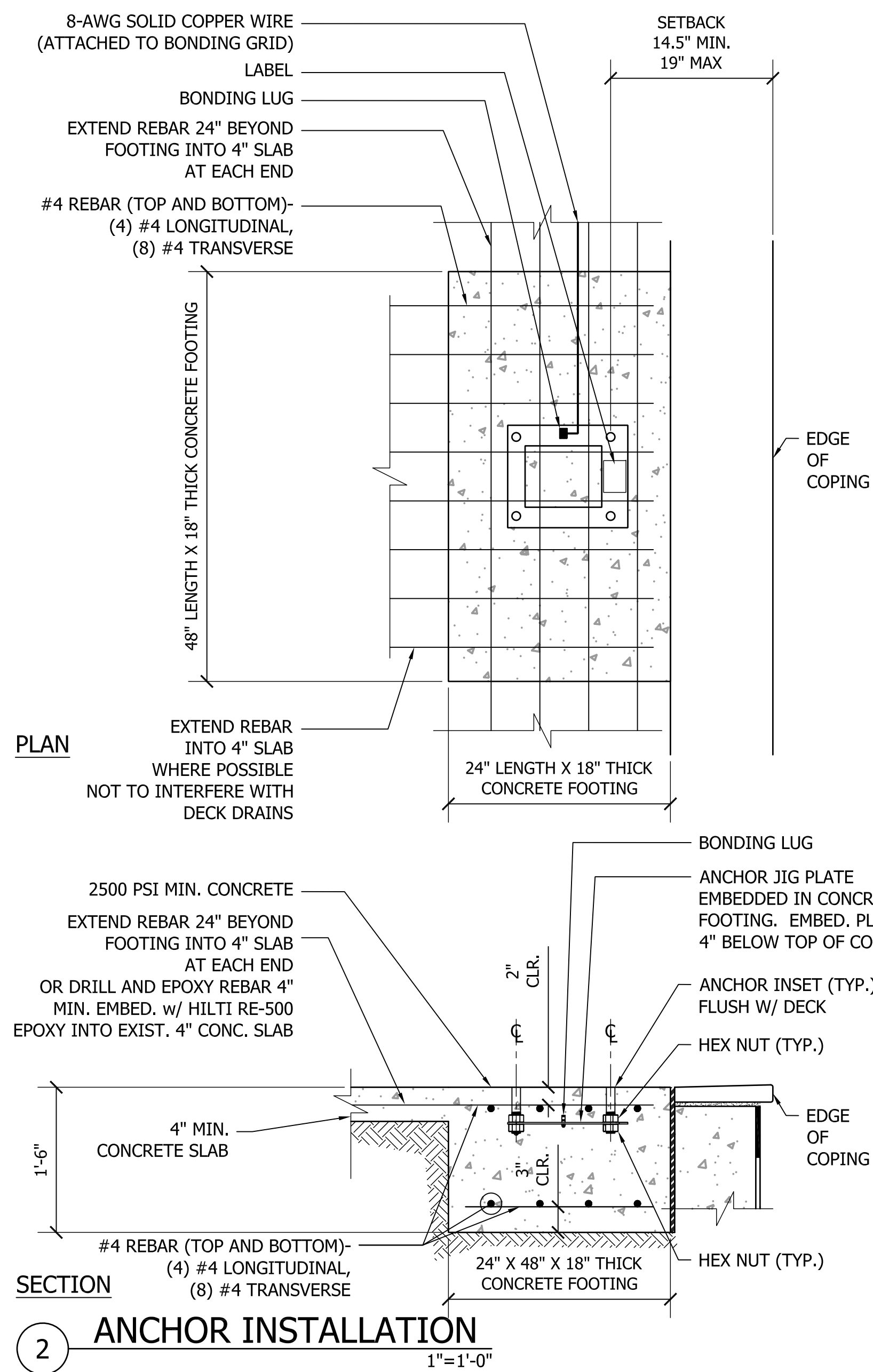
THE LIFT IS DESIGNED TO LOWER THE TOP OF THE SEAT BOTTOM AT LEAST 20 INCHES BELOW THE LEVEL OF THE DECK AT ITS FURTHEST EXTENSION.

CONTROLS AND OPERATING MECHANISMS.

THE OPERATION CONTROLS ARE NOT ATTACHED TO THE LIFT AND ARE PLACED ON THE SIDE OF THE SEAT BACK ON THE APPROACH SIDE OF THE LIFT WELL WITHIN THE SIDE REACH AND FORWARD REACH REQUIREMENTS OUTLINED IN THE CA CODE. (SEE 1118.B.5 AND 1118.B.6 BELOW)

THE SEAT BELT IS FASTENED WITH VELCRO WITH A LARGE HAND LOOP ON ONE END AND IS EASILY REMOVED AND SECURED WITH ONE HAND. THE OPERATION CONTROLS REQUIRE 1 POUND (4.45 N) OF FORCE TO ACTIVATE. OPERATION OF EITHER DOES NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.

ALL CONTROLS ON AQUA CREEK LIFTS ARE MOUNTED AND ACCESSIBLE.

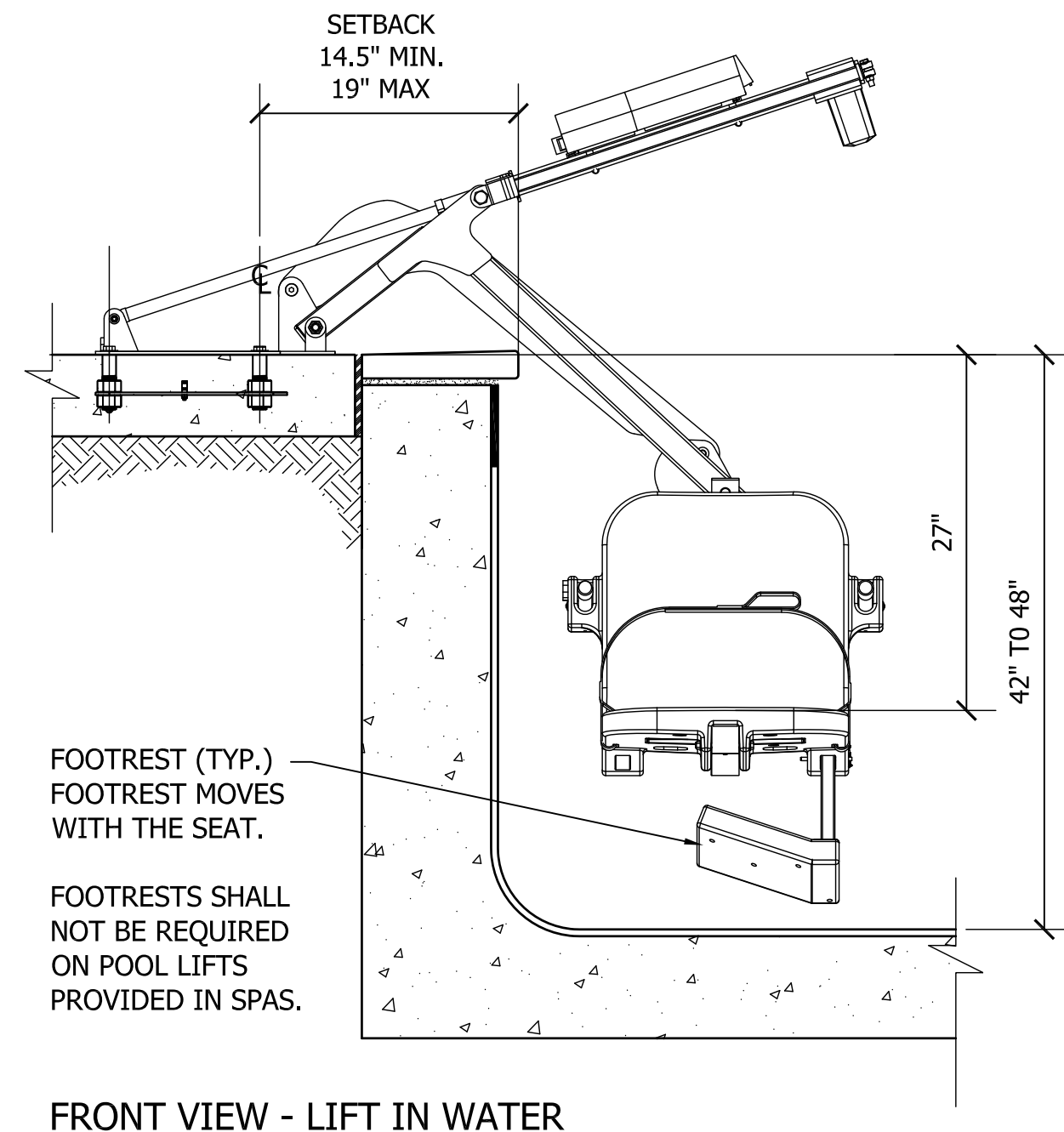
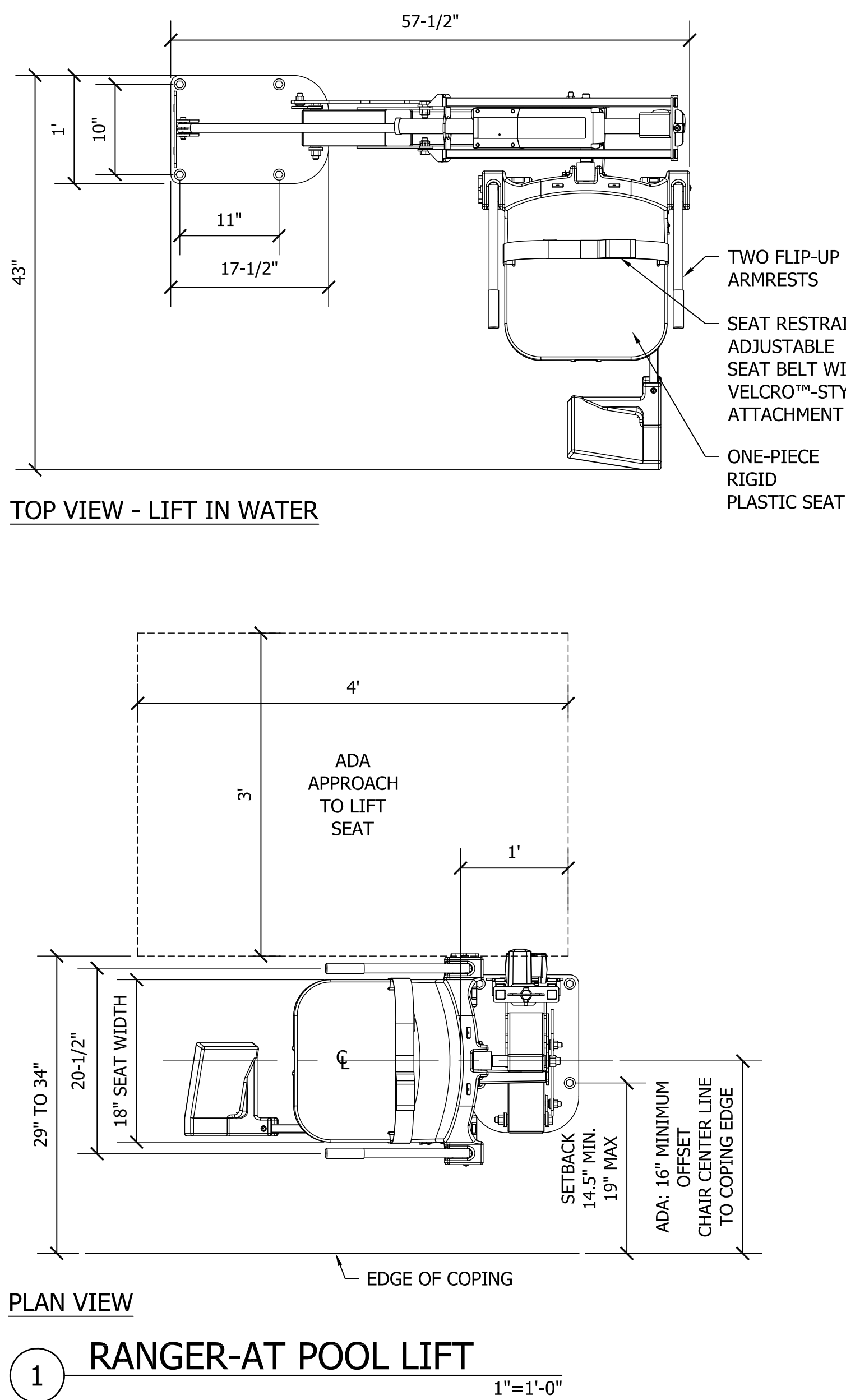


ANCHOR INSTALLATION PER MANUFACTURER:

1. REMOVE 1 NUT FROM EACH ANCHOR INSERT. PLACE THE ANCHOR INSERTS THROUGH THE LARGER HOLE OF THE ANCHOR JIG PLATE. THREAD THE REMOVED NUTS BACK ONTO THE ANCHOR INSERTS. THE ANCHOR PLATE SHOULD BE SANDWICHED BETWEEN THE TWO NUTS ON EACH INSERT.
2. INSTALL REBAR IN THE OPEN AREA OF THE DECK.
3. SET THE ANCHOR SYSTEM IN PLACE. MAKE SURE THE CENTER OF THE LARGE ANCHOR JIG PLATE HOLES ARE NOT SET BACK FURTHER THAN THE MAX DISTANCE AS SHOWN IN THIS DRAWING.
4. MAKE SURE THE TOP OF EACH ANCHOR BODY IS FLUSH WITH THE FINISHED DECK SURFACE. EACH ANCHOR BODY CAN BE ADJUSTED INDIVIDUALLY BY TURNING THE NUTS WITH A LARGE WRENCH.
5. BOND THE ANCHORING SYSTEM BY USING THE BONDING LUG ON THE ANCHOR PLATE. BOND THE SYSTEM ACCORDING TO NEC 680.26. REFER TO SHEET EPI AND EP2.
6. POUR THE CONCRETE AND FINISH THE POOL DECK SURFACE. COORDINATE WITH GENERAL CONTRACTOR.
7. ONCE THE CONCRETE HAS CURED YOUR LIFT IS READY TO BE MOUNTED TO THE ANCHORING SYSTEM.

BATTERY SYSTEM

THE RANGER-ATM 24V BATTERY SYSTEM COMES WITH A 24V SEALED RECHARGEABLE BATTERY.
1. TO RECHARGE THE BATTERY (WITH MOUNTING BRACKET), CONTROL BOX, AND A WATERPROOF HANDHELD CONTROLLER, THE CONTROL BOX IS MOUNTED TO THE RANGER-ATM LIFT AND THE BATTERY IS MOUNTED TO THE CONTROL BOX WITH THE HANDHELD CONTROLLER. THE BATTERY MOUNTS DIRECTLY ABOVE THE CONTROL BOX WITH A QUICK-RELEASE CLIP. TO OPERATE THE RANGER-ATM LIFT, PLUS IN THE HANDLED CONTROL BOX, THE BATTERY MUST BE RECHARGED. THE CORRESPONDING BUTTON TO EITHER LOWER OR RAISE THE LIFT. THE LIFT SHOULD BE ABLE TO COMPLETE THE LOWERING OR RAISING OF THE LIFT. THE LOW BATTERY INDICATOR TONE WILL SOUND, THE LOW BATTERY TONE INDICATES THAT THERE IS APPROXIMATELY 20% BATTERY LIFE REMAINING. AT THIS POINT, DO NOT ATTEMPT TO OPERATE THE LIFT. THE BATTERY MUST BE RECHARGED. RECHARGE AND RECHARGE ON THE WALL MOUNTED CHARGING UNIT.
2. TO RECHARGE THE BATTERY, SIMPLY GRIP THE TOP OF THE BATTERY AND PULL IT OUT OF THE CONTROL BOX. THE BATTERY. THIS WILL UNCLIP THE BATTERY FROM THE CONTROL BOX BRACKET AND THE BATTERY CAN THEN BE CLIPPED INTO THE WALL MOUNT CHARGER. WHEN THE CHARGER IS PLUGGED INTO THE WALL, THE CHARGER LIGHT WILL GO OFF AND THE BATTERY IS CORRECTLY MOUNTED TO THE CHARGER, THE ORANGE CHARGE LIGHT WILL ILLUMINATE, WHEN THE BATTERY IS FULLY CHARGED, THE CHARGE LIGHT WILL GO OFF AND THE BATTERY IS READY FOR USE.



SPECIFICATIONS:

LIFTING CAPACITY: 350 lbs
STATIC LOAD CAPACITY: 525 lbs

MAX. DRAFT (DECK TO WATER): 9.0'
MAX. SETBACK (SEE PAGE 2): 19"

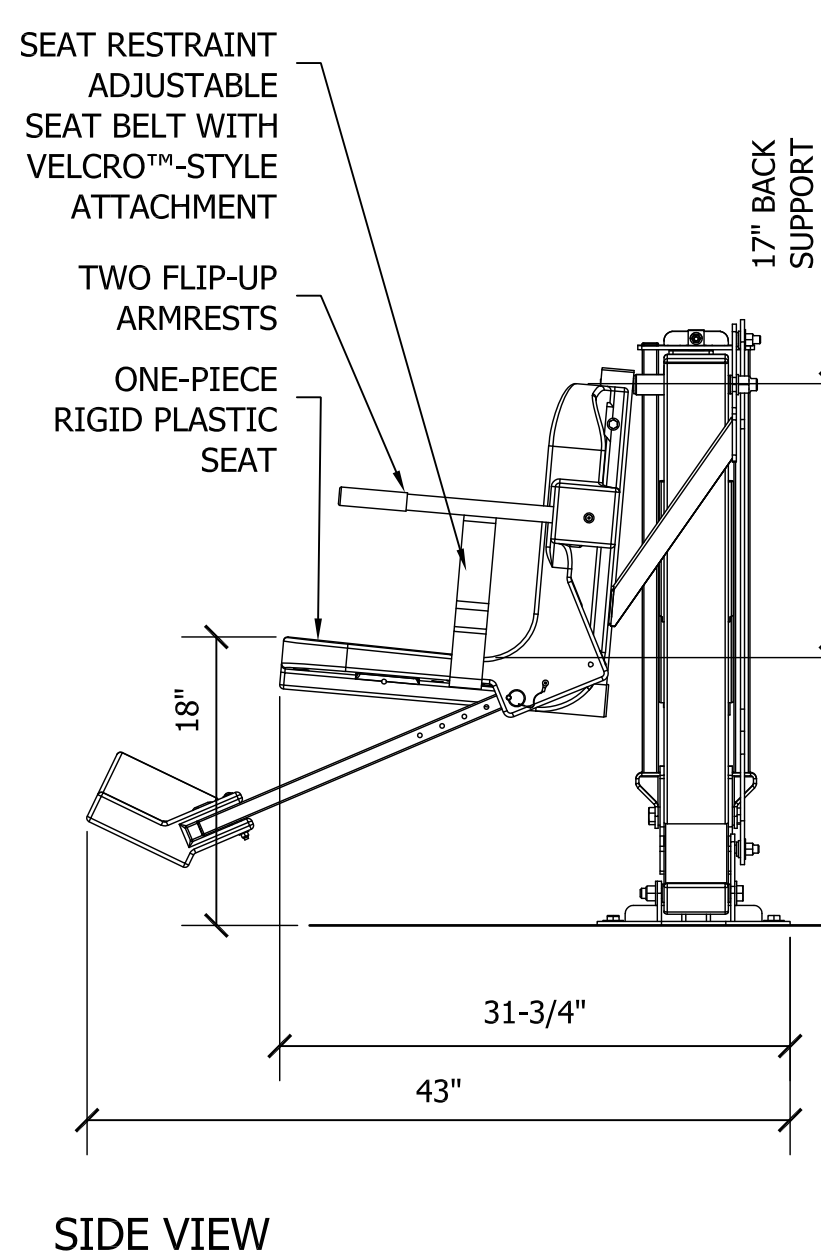
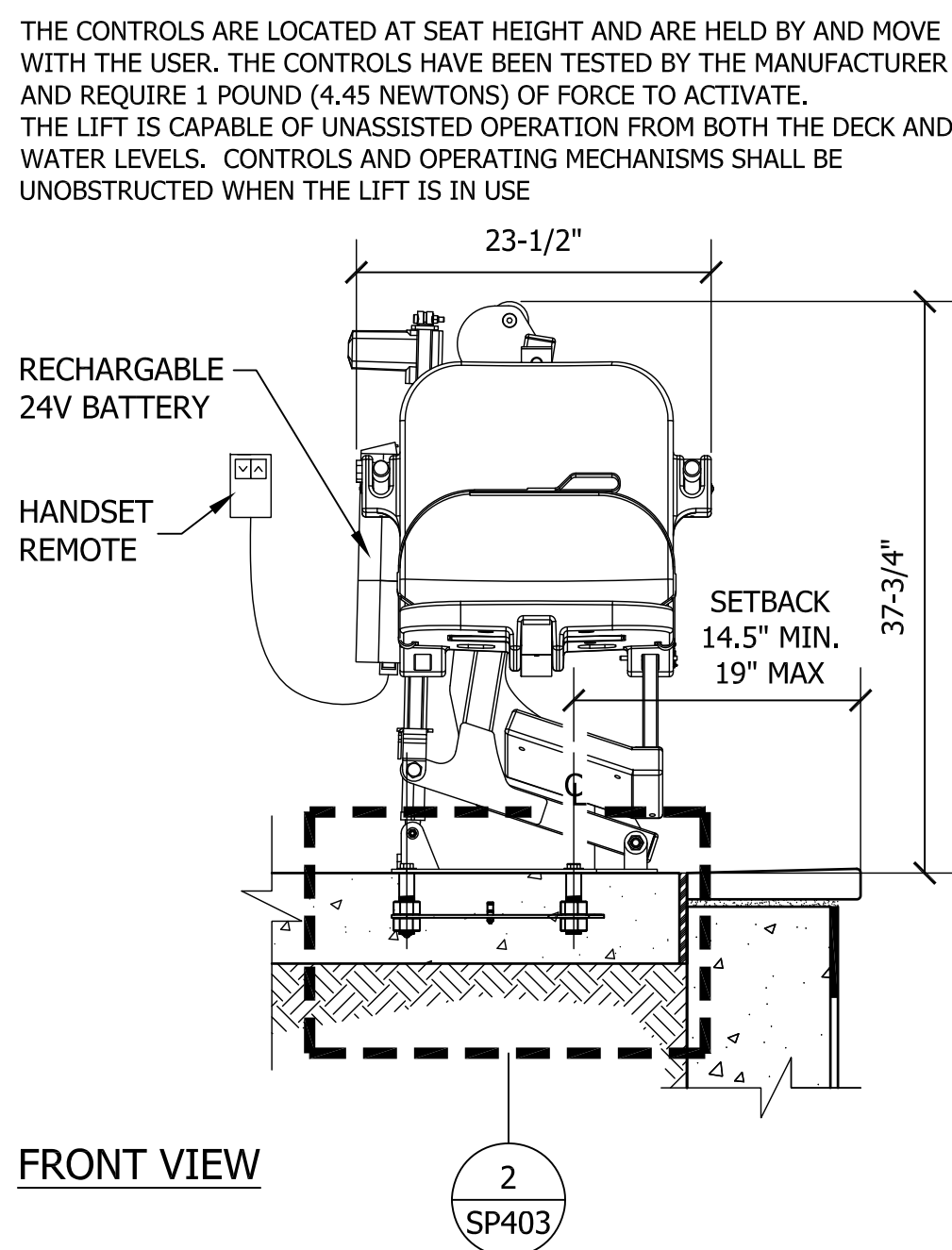
OVERALL HEIGHT (MAX): 37-1/2"
MAX. WIDTH (DEPLOYED): 43"
MAX. LENGTH (DEPLOYED): 57-1/2"
STOWED LENGTH (MAX): 23-1/2"
STOWED WIDTH (NO FOOTREST): 31-3/4"
WEIGHT: 105lbs

MATERIALS:

LIFT FRAME: TYPE 304 STAINLESS STEEL
BASEPLATE: TYPE 304 STAINLESS STEEL
CHAIR & FOOTREST: LLDPE POLYETHYLENE
SAFETY BELT: HEAVY-DUTY POLYESTER STRAP,
HOOK & LOOP FASTENER
POWDER COATING: OFF-WHITE POLYESTER
[PN: 1PC-108-1912 BX50]

EQUIPMENT:

DUAL FLIP-UP ARMRESTS
24VDC BATTERY & CHARGER
FLIP-UP FOOTREST
WATERPROOF HANDSET-REMOTE
SAFETY BELT
4-PT ANCHOR KIT: (PN: F-04CAJP)
HEADREST ASSEMBLY: (PN: F-422PLH)
PULLOUT LEGREST: (PN: F-105LAR)
COVER, POLYESTER: (PN: F-422PPC)
OVERHEAD THERAPY BAR: (PN: F-1410HB)



SPECIFICATIONS	
<p>1. CODES: ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) 2014 EDITION, ALL STATE AND LOCAL BUILDING CODES, ALL ADOPTED ORDINANCES, AND ALL REQUIREMENTS OF THE UTILITY COMPANY.</p> <p>2. RACEWAY: A. INDOOR: (1) EMT (ELECTRICAL METALLIC TUBING) (2) IMC (INTERMEDIATE METALLIC CONDUIT) B. OUTDOOR: (1) ABOVE GROUND: GRC (GALVANIZED RIGID CONDUIT) C. FLEXIBLE: LIQUIDTIGHT FLEXIBLE METAL CONDUIT SHALL BE USED IN ALL APPLICATIONS WHERE FLEXIBILITY IS REQUIRED. FLEXIBILITY METAL CONDUIT IS NOT ACCEPTABLE UNLESS IT IS A PART OF A PRE-WIRED ASSEMBLY. FLEXIBLE NONMETALLIC CONDUIT SHALL NOT BE USED. D. CONDUIT RUNS INSIDE BUILDING SHALL BE CONCEALED WHERE POSSIBLE. CONDUIT BELOW FLOOR SLAB SHALL BE INSTALLED WITHIN OR BELOW SLAB AND INSTALLED PRIOR TO POUR. RUNS TO BE AS STRAIGHT AS POSSIBLE FROM POINT OF OUTLET TO POINT OF OUTLET. E. FURNISH 1/2" CONDUIT FOR ALL TEMPERATURE SENSORS FROM SENSOR TO APPROPRIATE MECHANICAL EQUIPMENT. PROVIDE 4" SQUARE BOX AT 48" AFF. F. SUPPORTING DEVICES: (1) CHANNEL AND ANGLE SUPPORT SYSTEMS, HANGERS, ANCHORS, PRIOR BRACKETS, FABRICATED ITEMS, AND FASTENERS SHALL PROVIDE SECURE SUPPORT FROM THE BUILDING STRUCTURE FOR ELECTRICAL COMPONENTS. ALL SUPPORTS SHALL CONFORM TO SEISMIC ZONE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. LIGHT FIXTURES SHALL BE SUPPORTED IN ACCORDANCE WITH NEC 410. (2) MATERIAL: ALL STEEL, PROTECTED FROM CORROSION WITH ZINC COATING (GALVANIZED) OR TREATMENT OF EQUIVALENT CORROSION-RESISTANT ALTERNATIVE FINISH. G. FIRESTOPPING: APPLY TO CABLE AND RACEWAY PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES. PERFORM FIRESTOPPING TO RE-ESTABLISH THE ORIGINAL FIRE-RESISTANCE RATING OF THE ASSEMBLY AT THE PENETRATION. H. INSTALL RACEWAYS LEVEL AND SQUARE AND AT PROPER ELEVATIONS. PROVIDE ADEQUATE HEADROOM. USE TEMPORARY CLOSURES TO PREVENT FOREIGN MATTER FROM ENTERING RACEWAYS. KEEP RACEWAYS AT LEAST 6" AWAY FROM PARALLEL RUNS OF FLUES AND HOT WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER PIPING. I. MINIMUM CONDUIT SIZE: 3/4" BELOW GRADE, 1/2" ABOVE GRADE</p> <p>3. WIRE (50 TO 600 VOLTS) ALL WIRE SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS: A. INSULATING RATING: (1) VOLTAGE: 600 VOLTS (2) TEMPERATURE: 90°C (THIN OR THIN) B. STRANDED COPPER WITH ONE EXCEPTION: SOLID WIRE (SIZES #12 AND #10) MAY BE USED FOR OUTLETS AND LIGHTING. C. MINIMUM SIZE: (1) POWER WIRING – #12 AWG (2) CONTROL WIRING – #14 AWG D. WIRING INSTALLATION (1) ALL FEEDERS, BRANCH CIRCUITS AND VOLTAGE DROP REQUIREMENTS SHALL CONFORM TO NEC 210 AND 220. (2) ALL WIRING SHALL BE INSTALLED IN AN APPROVED RACEWAY SYSTEM IN ACCORDANCE WITH NEC AND LOCAL ORDINANCES.</p> <p>4. ENCLOSURES: A. FOR STARTERS, DISCONNECTS AND PANELBOARDS: (1) INDOOR: NEMA 1 (2) OUTDOOR: NEMA 3R B. CONTROL PANELS (FULL PIANO HINGED): (1) INDOOR: NEMA 1 (2) OUTDOOR: NEMA 3R C. CONTROL STATIONS: (1) INDOOR AND OUTDOOR: NEMA 4 OR NEMA 4X D. REFER TO N.E.C. IN AREAS WHERE CERTAIN CONDITIONS MUST BE MET. E. MOUNTING HEIGHTS: (1) MOUNT TOP OF PANELS AND SWITCHES 66" AFF. (2) MOUNT TOP OF RECEPTACLE BOXES 15" AFF UON (3) OUTLET MOUNTING HEIGHTS FOR RECEPTABLES, SWITCHES, SYSTEM INITIATING DEVICES, AND INDICATING DEVICES SHALL COMPLY WITH REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA)</p> <p>5. GROUNDING: A. ELECTRICAL SERVICE AND BUILDING GROUNDING SHALL BE INSTALLED PER THE NEC AS SHOWN IN THE CONTRACT DRAWINGS AND SPECIFICATIONS. B. ALL METALLIC STRUCTURES, METALLIC ENCLOSURES, AND ELECTRICAL EQUIPMENT SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDED AND GROUND CONNECTIONS SHALL BE MADE TO THE BUILDING GROUND. SIZE GROUND WIRE PER NEC 250. 6. WIRING DEVICES AND COMPONENTS: A. STARTERS AND CONTACTORS: TO BE NEMA OR IEC RATED (NO GENERAL PURPOSE). B. ALL PANELS SHALL BE OF COPPER BUS CONSTRUCTION. C. ALL RECEPTABLES AND SWITCHES SHALL BE COMMERCIAL GRADE WITH 20A RATING. D. ALL RECEPTABLE AND SWITCH COVERS SHALL BE WHITE AND STANDARD COMMERCIAL GRADE. E. EQUIPMENT STARTERS AND RELATED CONTROL AND WIRING SHALL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. OVERLOAD HEATERS SHALL BE INSTALLED IN ACCORDANCE WITH NAMEPLATE DATA ON EQUIPMENT. STARTERS SHALL BE INSTALLED AS DIRECTED BY THE POOL CONTRACTOR. F. ALL DISCONNECT SWITCHES SHALL BE HEAVY-DUTY WITH DUAL ELEMENT TIME DELAY FUSES AS NOTED ON THE ONE-LINE DIAGRAM. FUSE SIZE TO BE AS SHOWN OR AS REQUIRED TO MATCH LOAD CONDITIONS.</p>	<p>7. MISCELLANEOUS AND GENERAL A. THE ELECTRICAL DRAWINGS ARE NOT TO BE USED FOR ROOM DIMENSIONS AND EQUIPMENT PLACEMENT. REFERENCE THE APPROPRIATE ARCHITECTURAL, STRUCTURAL OR MECHANICAL PLANS, DRAWINGS OR SCHEMATIC. VERIFY ALL LOCATIONS WITH ENGINEER BEFORE INSTALLING CONDUIT, EQUIPMENT, ETC. B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE INSTALLATION AND TO ENSURE IT IS PROPER FOR ANY GIVEN SITUATION WHICH MAY VARY FROM THE DETAILS OR THE DRAWINGS. CONTRACTORS ARE ADVISED TO COMPLETELY SURVEY THE WORK AREA TO IDENTIFY ANY UPCOMING PROBLEMS. C. COORDINATE MOUNTING HEIGHT OF ALL EXTERIOR LIGHTING FIXTURES WITH ARCHITECTURAL ELEVATION DRAWINGS. D. ELECTRICAL CONTRACTOR SHALL ARRANGE FOR ALL INSPECTIONS WHEN THEY BECOME DUE, AND SHALL NOT COVER ANY WORK UNTIL APPROVED BY THE INSPECTION AUTHORITY. E. ANY AND ALL FEES ASSOCIATED WITH THE ELECTRICAL WORK INCLUDING CONSTRUCTION AND INSPECTIONS SHALL BE PAID FOR BY THE ELECTRICAL CONTRACTOR IN ORDER TO DELIVER AND COMPLETE THE FINISHED BUILDING, READY FOR OCCUPANCY AND 100% USAGE. F. ANY COSTS DUE TO THE LACK OF COOPERATION AMONG TRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. G. REFER TO THE LATEST ARCHITECTURAL DRAWINGS FOR EXACT WALL LOCATIONS, DIMENSIONS, AND CONFIGURATIONS. DOOR SWINGS FOR SWITCH LOCATION, REFLECTED CEILING PLANS FOR LIGHT FIXTURE LOCATIONS. H. ELECTRICAL CONTRACTOR SHALL VERIFY ALL ELECTRICAL EQUIPMENT LOADS PRIOR TO ROUGH-IN AND SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST. I. ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY ALTERATIONS REQUIRED BY THE OWNER, ARCHITECT, OR FIELD CONDITIONS. J. ALL EQUIPMENT SHALL BE NEW AND SHALL HAVE APPROPRIATE UNDERWRITERS LABORATORIES (UL) LABEL AND SHALL CONFORM TO THE LATEST INDUSTRY STANDARDS. K. ELECTRICAL CONTRACTOR SHALL MAINTAIN ALL WORKING CLEARANCES FOR ALL ELECTRICAL EQUIPMENT PER N.E.C. REQUIREMENTS. L. AT THE COMPLETION OF WORK, THE ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE, ACCURATE, TYPED PANELBOARD DIRECTORIES. M. ANY DEVIATION FROM PLANS WITHOUT PRIOR APPROVAL OF THE ARCHITECT/ENGINEER SHALL BE CAUSE FOR REJECTION OF MATERIALS AND/OR METHODS AND ANY COSTS INCURRED TO CORRECT SUCH DEVIATION TO THE SATISFACTION OF THE ARCHITECT/ENGINEER SHALL BE THE CONTRACTOR'S RESPONSIBILITY. N. COST TO INSTALL TEMPORARY POWER AND LIGHTING PER OSHA STANDARDS AND TEMPORARY POWER TO CONSTRUCTION TRAILER SHALL BE INCLUDED IN ELECTRICAL CONTRACTOR'S BID. O. ALL DIMENSIONS ARE FROM FINISHED FLOOR OR FACE OF STUD TO CENTER OF DEVICE UNLESS OTHERWISE NOTED. P. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF THERMOSTATS AND OTHER SPECIAL EQUIPMENT OR CONTROLS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ALL CONDUITS, JUNCTION BOXES, WIRING, AND DISCONNECT SWITCHES AND THERMOSTAT JUNCTION BOXES.</p> <p>GENERAL: CONDUCTORS NORMALLY USED TO CARRY CURRENT SHALL BE OF COPPER. FOR ALUMINUM AND COPPER-CLAD ALUMINUM #6AWG AND LARGER, SEE SECTION 310-15. EXCEPTION: ALUMINUM CONDUCTORS SMALLER THAN #6AWG MAY BE USED PROVIDED THE METHOD OF CONNECTION IS APPROVED IN ADVANCE BY THE BUILDING OFFICIAL AND THE INSTALLATION IS MADE UNDER CONTINUOUS SPECIAL INSPECTION.</p>
<h2>ALL MOTOR BRANCH CONDUITS SHALL HAVE AN INSULATED GROUNDING CONDUCTOR SIZED IN ACCORDANCE TO TABLE 250.122 NO SMALLER THAN 12AWG 2013 N.E.C. 680.20(A)(1).</h2>	

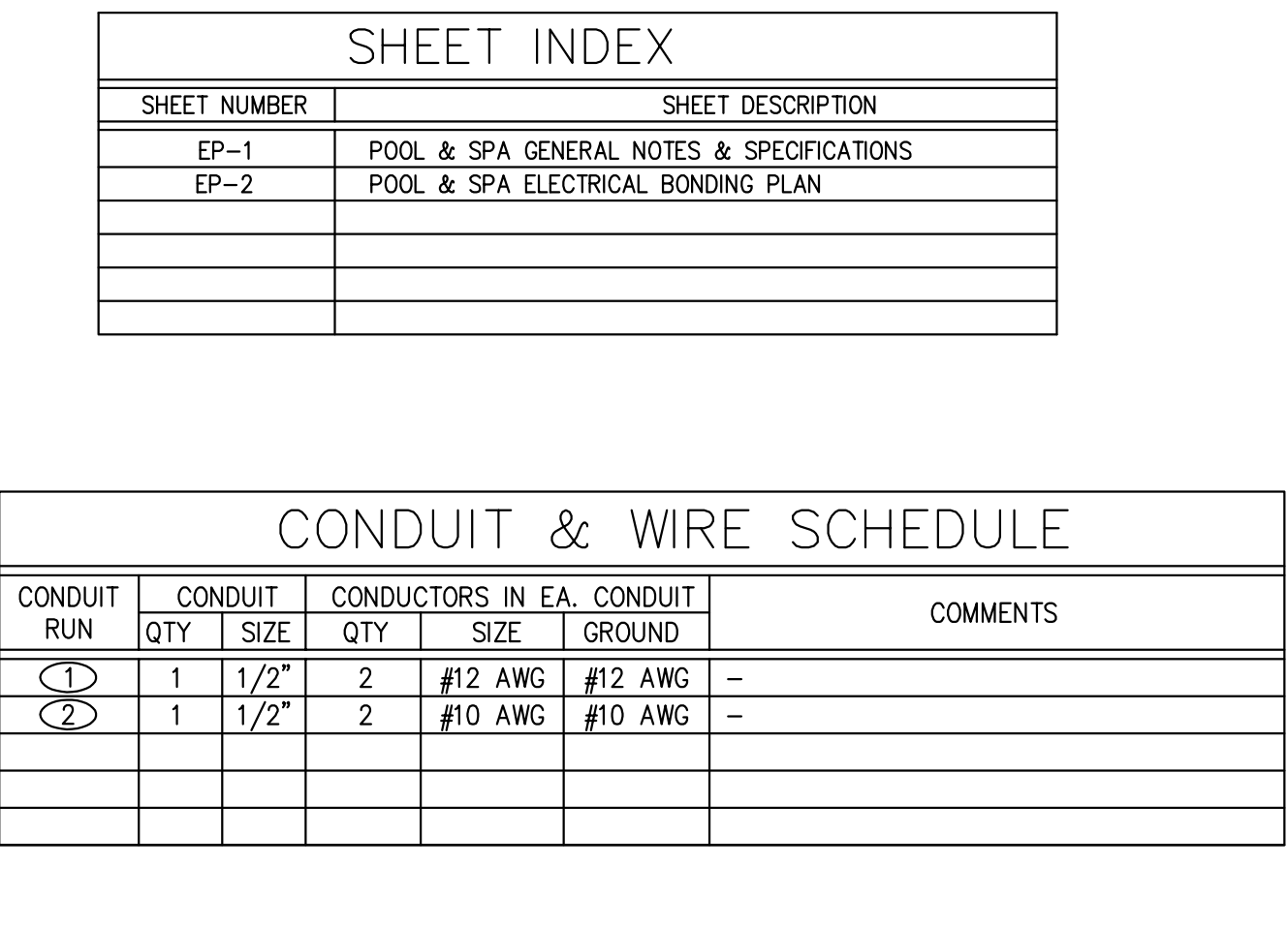
INSTALLATION NOTES

1. EQUIPMENT SUPPLIED BY POOL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR SHALL INCLUDE THE FOLLOWING:
 - A. POOL CONTROL PANEL (MODEL #LX 820 COMPOL)
 - B. SPRING WOUND TIMER (SWT)
 - C. EMERGENCY STOP PUSHBUTTON (ESS)
 - D. POOL LIGHTS
 - E. POOL WATER LEVEL SENSOR
 - F. SPA WATER LEVEL SENSOR
2. ALL METAL PARTS IN SWIMMING POOL AND SPA AREAS AND EQUIPMENT ROOM SHALL BE GROUND BONDED WITH #8 SOLID BARE COPPER INCLUDING BUT NOT LIMITED TO ALL PUMPS, FILTERS, POOL AND SPA LIGHTS, LADDERS, HAND RAILS, AND REBAR PER REQUIREMENTS OF N.E.C. 680.6 AND 680.26.
3. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY LOCATION OF SWIMMING POOL AND SPA POOL LIGHT TOGGLE SWITCHES PER REQUIREMENTS OF N.E.C. 680.22 AND EMERGENCY OFF TOGGLE SWITCH PER 680.41.
4. ELECTRICAL CONTRACTORS WITH 120V COILS AND STARTERS WITH 120V COILS SHALL BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.
5. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY LOCATION OF POOL AND SPA WATER LEVEL SENSORS WITH POOL CONTRACTOR. LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED BY THE POOL CONTRACTOR.
6. POOL AND SPA LIGHT FIXTURES SHALL BE INSTALLED PER REQUIREMENTS OF NEC 680.23 FOR UNDERWATER LIGHTING FIXTURES.
7. BONDING OF ALL POOL AND SPA EQUIPMENT AND CONSTRUCTION SHALL BE INSTALLED PER REQUIREMENTS OF N.E.C. 680.6 AND 680.26.
8. WHEN CONNECTING CONDUCTORS TO MOTOR TERMINALS, USE LIQUIDTITE CONDUIT (3" MAXIMUM) FROM THE RIGID CONDUIT TO THE MOTOR J-BOX.
9. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY LOCATION OF TIMER AND EMERGENCY STOP PUSHBUTTON PER REQUIREMENTS OF N.E.C. 680.41.
10. ELECTRICAL CONTRACTOR SHALL PERFORM ALL FINAL POWER AND CONTROL WIRING TERMINATIONS AT POOL CONTROL PANEL, CONDUIT J-BOX, PCP STARTER, EMERGENCY STOP PUSHBUTTON, TIMER AND WATER LEVEL SENSORS AS REQUIRED FOR PROPER NORMAL AND EMERGENCY SHUTDOWN OPERATION OF ALL PUMPS.

1) UNDERGROUND WIRING LOCATION SHALL COMPLY WITH 2014 N.E.C. 680.10.

2) UNDERGROUND WIRING SHALL NOT BE PERMITTED UNDER THE POOL OR WITHIN THE AREA EXTENDING 5FT HORIZONTALLY FROM THE INSIDE WALL OF THE POOL UNLESS THIS WIRING IS NECESSARY TO SUPPLY POOL EQUIPMENT PERMITTED BY THIS ARTICLE. WHERE SPACE LIMITATIONS PREVENT WIRING FROM BEING ROUTED A DISTANCE OF 5FT OR MORE FROM THE POOL, SUCH WIRING SHALL BE PERMITTED WHERE INSTALLED IN RIGID METAL CONDUIT, INTERMEDIATE METAL CONDUIT, OR A NONMETALLIC RACEWAY SYSTEM. ALL METAL CONDUIT SHALL BE CORROSION RESISTANT AND SUITABLE FOR THE LOCATION. THE MINIMUM DEPTH SHALL BE GIVEN IN TABLE 680.10.

GENERAL:
CONDUCTORS NORMALLY USED TO CARRY CURRENT SHALL BE OF COPPER. FOR ALUMINUM AND COPPER-CLAD ALUMINUM #6AWG AND LARGER, SEE SECTION 310-15. EXCEPTION: ALUMINUM CONDUCTORS SMALLER THAN #6AWG MAY BE USED PROVIDED THE METHOD OF CONNECTION IS APPROVED IN ADVANCE BY THE BUILDING OFFICIAL AND THE INSTALLATION IS MADE UNDER CONTINUOUS SPECIAL INSPECTION.

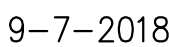


- i) WIRING CONFORMS TO THE UNIFORM CODE AND ISSUED BY THE NEW YORK BOARD OF FIRE UNDERWRITERS OR EQUIVALENT CERTIFYING AGENCY.**
- ii) NO OVERHEAD ELECTRICAL WITHIN 20 FEET HORIZONTALLY OF THE POOL**
- iii) GROUND FAULT CIRCUIT INTERRUPTERS PROVIDED**
- iv) THERE SHALL BE AN ELECTRICAL INTERLOCK BETWEEN THE RE-CIRCULATION PUMP AND CHEMICAL FEEDERS**
- v) FUEL BURNING HEATING EQUIPMENT INSTALLED AND VENTED TO OUTDOORS IN ACCORDANCE WITH THE UNIFORM CODE**

**RCRBD
ELECTRICAL
RECORD SET**



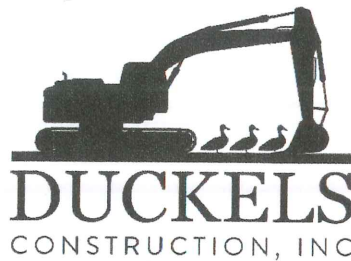
TORIAN PLUM
POOL AND SPAS
1855 SKI TIME SQUARE DR
STEAMBOAT SPRINGS, CO 80487

[illegible]

Drawing Title
ELECTRICAL SPECIFICATIONS AND
POWER ONE LINE DIAGRAM FOR
PANEL "P2"

Date _____

Sheet No.



9/20/2018

R C R B D

TO: Routt County Regional Building Department

From: Duckels Construction Inc.
Ken Fones 970-761-0800/ kenfones@gmail.com

RECORD SET

Re: Torian Plum pool/hot tubs
1855 Ski time square
Steamboat Springs Co.
Permit TB-18-662 Response to plan review letter dated 09/18/2018

Please find the responses to the plan review comments as well as supporting documents. Duckels has submitted the required application to the county health department on the morning of 9/20/18. Once again thanks for your cooperation with this permit application!

1. Duckels understands the review process.
2. Page 7 of the submitted plans has all of the relevant calculations requested.
3. There is a back flow preventer currently in both of the mechanical rooms as well as a RP on the entire Torian Plum plaza facility being installed by the end of the year per conditions from Mount Warner Water district. (Photos of the existing back flow preventers enclosed as well as the letter from mount MWW and Western States fire protection proposal for the installation of the RP)
4. Find the enclosed literature from Spectrum Aquatics for the hot tub covers that will be provided.
5. Enclosed is a revised plan from MEP engineering Labeled M3.1 from the boiler room plans (permit #B-18-184 copy enclosed) that shows the calculations and size and location of the vent to be installed in red.

Duckels is aware of the additional requirements based on the State of Colorado Swimming Pool and Mineral Bath Regulations.

Ken Fones

3

Josh Miller

From: Frank Alfone <falfone@mwwater.com>
Sent: Thursday, July 26, 2018 12:52 PM
To: Josh Miller
Cc: Nate Johnson
Subject: Torian Plum Meter Room Items

R C R B D

Josh,

RECORD SET

Good afternoon. I hope you are settled in a bit and things are off to a good start at Torian!

As you probably know, several deficiencies have been identified regarding cross-connection control in both the Plaza and Creekside Buildings (in the mechanical rooms that house the main water service lines for both domestic potable water and fire prevention water) at Torian Plum. I just spoke to Jesse at Western States Fire Protection. And, previous to the conservation with Jesse today and before Resort Lodging Co. took over managing Torian, Nate (MWW Operations Manager) and I met on site with Alex Tipton and Ken Fones.

Jesse informed me that he submitted a proposal to Torian to remedy the deficiencies and was going to give you a call to discuss next steps.

All of these items on the proposal must be completed per Mt. Werner Water Rules and Reg's and Section 11.39(3) of The Colorado Department of Public Health and Environment Primary Drinking Water Regulations – see section below.

"The supplier must survey all non-single-family-residential connections to the public water system to determine if the connection is a cross connection unless the supplier controls that connection with the most protective backflow prevention assembly or backflow prevention method. The supplier must survey all connections within the supplier's waterworks to determine if the connection is a cross connection.

(i) If the supplier identifies a cross connection during a survey, the supplier must determine the type of backflow prevention assembly or backflow prevention method to control the cross connection.

(ii) If the supplier becomes aware of a single-family-residential connection to the public water system that is a cross connection, the supplier must determine the type of backflow prevention assembly or backflow prevention method to control the cross connection."

When you have a moment, please give me a call to discuss this matter and/or I would be happy to meet you on site to look at the issues.

I look forward to hearing back from you.

Regards,



Frank Alfone
General Manager
Mt. Werner Water and Sanitation District
3310 Clearwater Trail
PO Box 880339
Steamboat Springs, CO 80488-0339
falfone@mwwater.com
www.mwwater.com
(970) 879-2424

#3

R C R B D



Western States Fire Protection Co.

1717 Heath Parkway
Fort Collins, CO 80524
Ph.: 970-472-5205

FAX: 970-416-8886

RECORD SET

Protecting Lives and Property

gary.cantwell@wsfp.us

SERVICE PROPOSAL

PROPOSAL SUBMITTED TO:	Martin and Martin	PHONE:	720-544-5394	DATE:	June 15, 2018
STREET ADDRESS:		Cell NUMBER:	720-589-4667	DATE OF PLANS:	N/A
CITY, STATE, ZIP CODE:	Steamboat Springs, CO	JOB NAME:	Torium Plum Backflow Preventer Install	ARCHITECT:	N/A
TO THE ATTENTION OF:	Alex Tipton	JOB LOCATION:	Steamboat Springs	SALES PERSON:	Gary W. Cantwell

SCOPE OF WORK INCLUDED IN THIS PROPOSAL

Install one new backflow preventer on the fire main and one new backflow preventer on the domestic main.

ALL WORK TO BE DONE DURING NORMAL WORKING HOURS MONDAY THROUGH FRIDAY

INCLUSIONS: Labor, Permit and Materials

EXCLUSIONS: Off or overtime labor, Patching or Painting of existing or new surfaces. Alarms or Alarm Wiring. Bond.

FOURTEEN THOUSAND FIVE HUNDRED SIXTY AND NO/00 DOLLARS

\$14,560

NOTE: THIS PROPOSAL MAY BE WITHDRAWN BY WESTERN STATES FIRE PROTECTION COMPANY IF NOT ACCEPTED WITHIN 15 DAYS OF THE PROPOSAL DATE.

PAYMENT IS TO BE MADE MONTHLY AS THE WORK PROGRESSES TO THE VALUE OF 100 PERCENT OF ALL WORK COMPLETE AND MATERIAL ON JOB SITE. THE ENTIRE AMOUNT OF CONTRACT TO BE PAID WITHIN 30 DAYS AFTER COMPLETION OF THE WORK.

LIMITATION OF WESTERN STATES FIRE PROTECTION COMPANY LIABILITY

CLIENT ACKNOWLEDGES THAT WESTERN STATES FIRE PROTECTION COMPANY IS NOT AN INSURER AND THAT THE PAYMENTS MADE TO WESTERN STATES FIRE PROTECTION COMPANY BY CLIENT ON THIS PROJECT ARE BASED UPON THE VALUE OF THE SYSTEM AND/OR SERVICES PROVIDED AND ARE UNRELATED TO THE VALUE OF CLIENT'S PROPERTY OR BUSINESS. IN RECOGNITION OF THE RELATIVE RISKS AND BENEFITS TO THE CLIENT AND TO WESTERN STATES FIRE PROTECTION COMPANY RESULTING FROM THE WORK TO BE PERFORMED BY WESTERN STATES FIRE PROTECTION COMPANY, THE RISKS HAVE BEEN ALLOCATED SUCH THAT THE CLIENT, AS WELL AS THE CLIENT'S ASSIGNS, AGENTS, AND REPRESENTATIVES, AGREE, TO THE FULLEST EXTENT PERMITTED BY LAW, TO LIMIT THE LIABILITY OF WESTERN STATES FIRE PROTECTION COMPANY, ITS OFFICERS, DIRECTORS, EMPLOYEES AND WESTERN STATES FIRE PROTECTION COMPANY'S PARENT, SUBSIDIARIES, AFFILIATES, CONSULTANTS, SUBCONTRACTORS, VENDORS, TO A MAXIMUM OF \$10,000 OR THE AMOUNT OF THE CONTRACT/PRICE OF WORK TO BE PERFORMED, WHICHEVER IS LESS, AND CLIENT DOES HEREBY RELEASE WESTERN STATES FIRE PROTECTION COMPANY FROM ANY CLAIMS IN EXCESS OF SAID LIMIT.

THIS LIMITATION OF LIABILITY SHALL APPLY TO ALL JUDGMENTS, CLAIMS, LIABILITY, COSTS, CLAIM EXPENSES, AND ALL OTHER DAMAGES OR LOSSES OF ANY NATURE SUSTAINED BY CLIENT, CONTRACTOR OR SUBCONTRACTORS, OR ANY OTHER PARTY CLAIMING BY OR THROUGH THEM.

THIS LIMITATION OF LIABILITY SHALL BE ENFORCEABLE, 1.) REGARDLESS OF THE AMOUNT OF ANY ACTUAL DAMAGES SUSTAINED, IF ANY, AS A RESULT OF THIS WORK; AND, 2.) EVEN IF THE LOSS OR DAMAGE IN ISSUE IS CAUSED OR ALLEGED TO BE CAUSED BY THE NEGLIGENCE, BREACH OF WARRANTY, DEFECTIVE PRODUCTS, VIOLATIONS OF THE DECEPTIVE TRADE PRACTICES ACT, OR OTHER FAULT OF WESTERN STATES FIRE PROTECTION COMPANY OR WESTERN STATES FIRE PROTECTION COMPANY'S PARENT, SUBSIDIARIES, AFFILIATES, CONSULTANTS, SUBCONTRACTORS, VENDORS, OR THEIR RESPECTIVE EMPLOYEES, AGENTS OR REPRESENTATIVES. SHOULD CLIENT DESIRE A DIFFERENT LIMITATION OF LIABILITY, SUCH IS AVAILABLE AS AN ADDITIONAL SERVICE AT AN ADDITIONAL COST. IF PAYMENT FOR WORK PROVIDED IN THIS AGREEMENT IS NOT PAID WHEN DUE, CLIENT AGREES TO PAY ALL COSTS OF COLLECTION INCLUDING ATTORNEYS FEES AS WELL AS INTEREST COMPUTED AT THE HIGHEST RATE ALLOWABLE BY APPLICABLE STATE LAW.

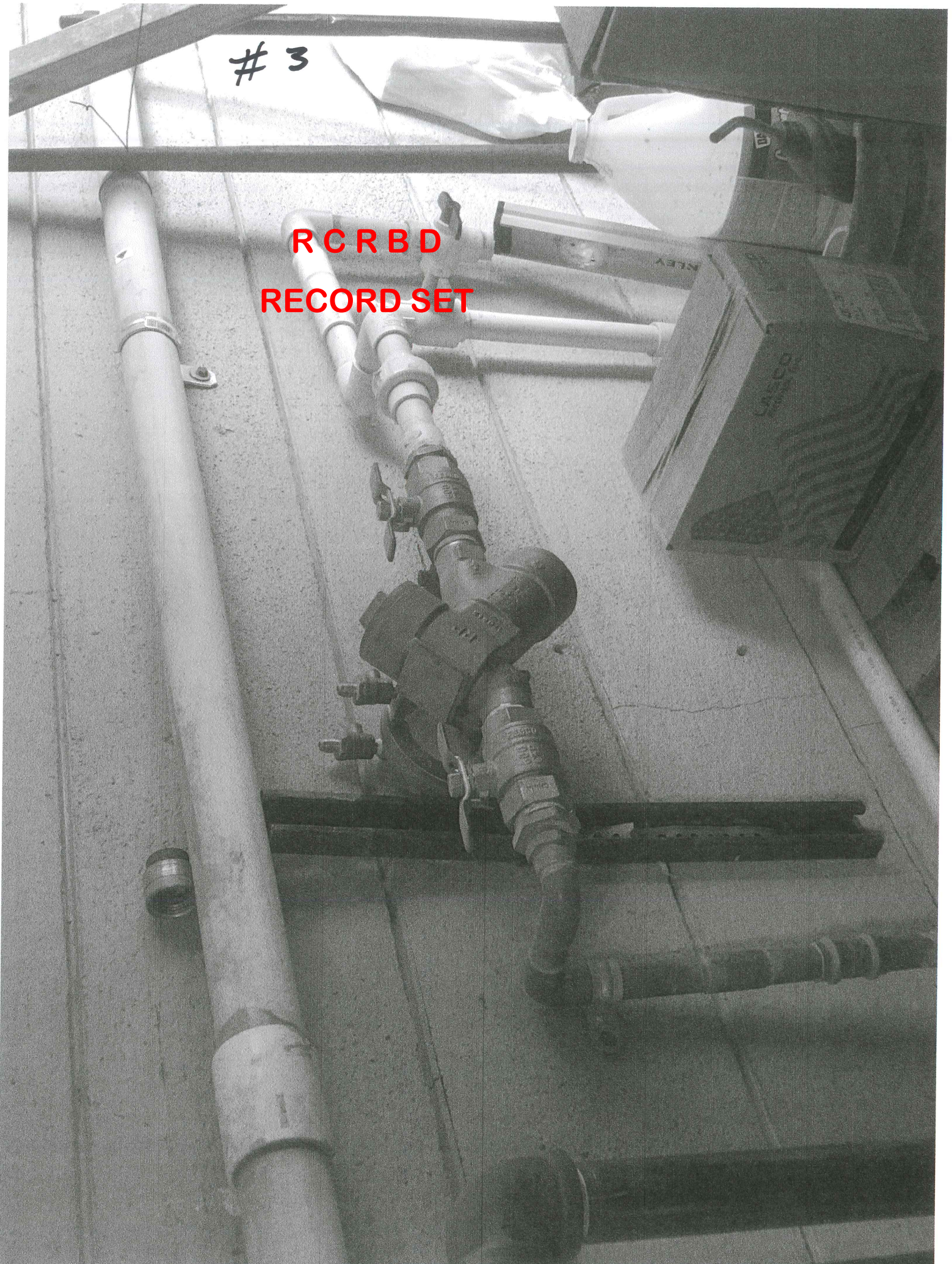
ACCEPTANCE OF CONTRACT/PROPOSAL

THE ABOVE PRICES SPECIFICATIONS AND CONDITIONS ARE SATISFACTORY AND ARE HEREBY ACCEPTED. YOU ARE AUTHORIZED TO DO THE WORK AS SPECIFIED. PAYMENT WILL BE MADE AS OUTLINED ABOVE.

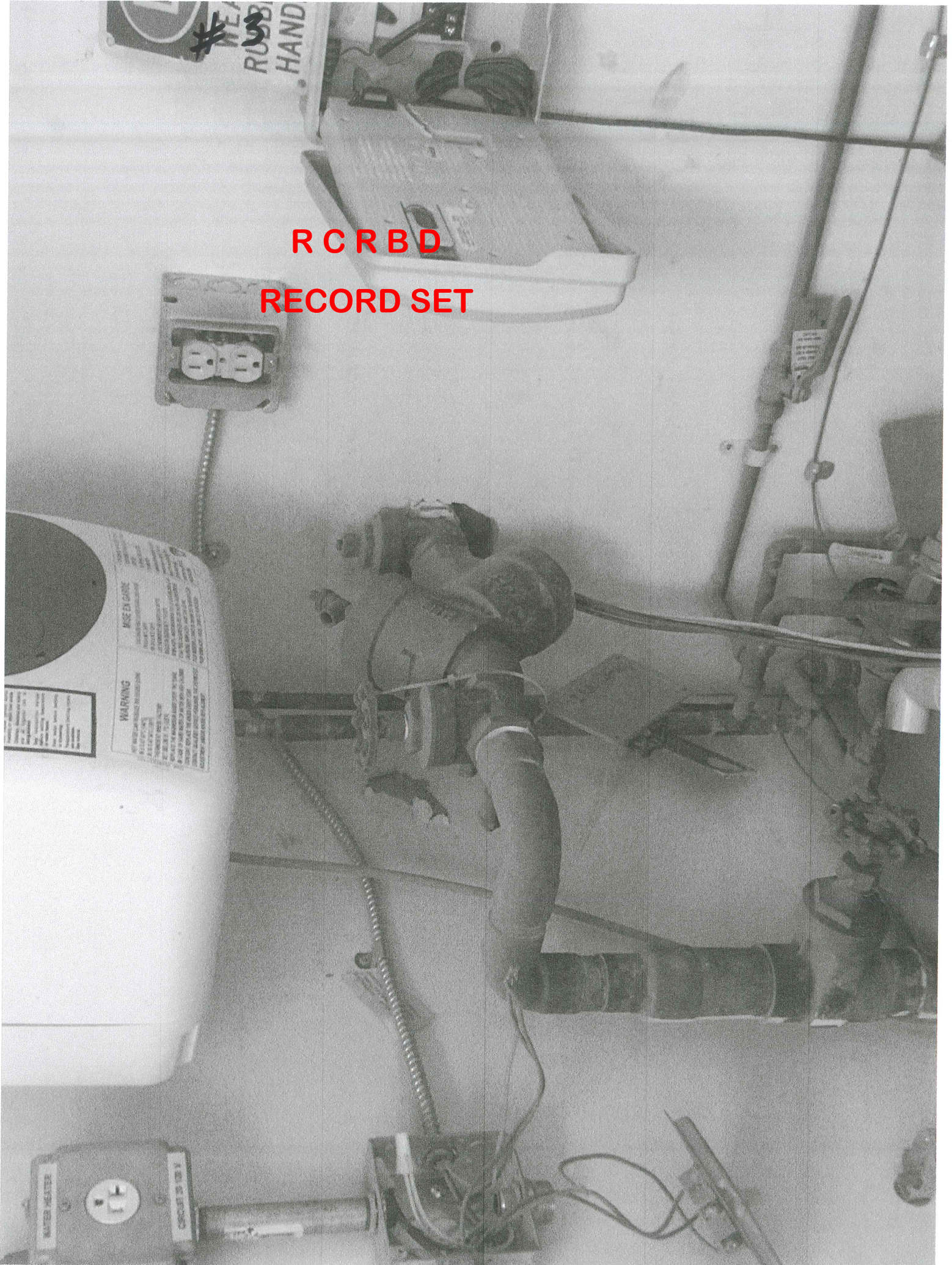
By _____ Date _____
General Contractor or Owner Representative

3

RCRBD
RECORD SET

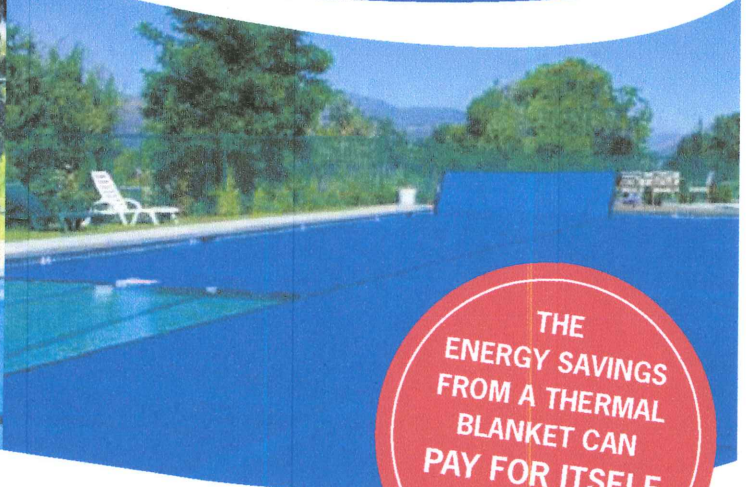


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#4/ Energy Saving Pool & Spa Blankets

RCRBD
RECORD SET



THE
ENERGY SAVINGS
FROM A THERMAL
BLANKET CAN
PAY FOR ITSELF
IN 12 MONTHS

SPECTRUM
Aquatics

A PLAYCORE Company

Pool & Spa Blanket Features

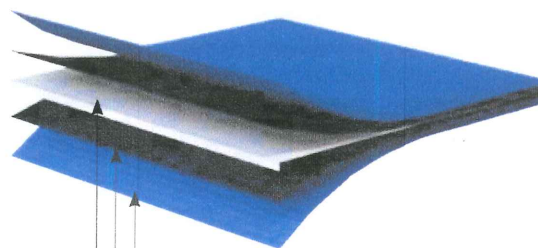
Thermal-King® Pool Covers

Quality, Performance, Strength, Longevity

- Superior strength edging – made with PVC coated tarpaulin
- Advanced performance – 100% stabilized polyester woven 20 x 20 count denier
- Longer life – coated and UV stabilized on both sides for maximum protection
- Extruded black vinyl
- Drain holes punched every 3 feet with weighted edge
- Edging does not chalk or flake
- Flow holes help covers hold in windy environments
- Easy to deploy and retrieve
- Blankets are reversible
- Available in standard and custom sizes
- 305 Stainless steel grommets for maximum corrosion resistance
- UV inhibited loop tie handles
- 5/16" heavy-duty synthetic fiber rope
- Panels come complete with heavy-duty loop ties for attaching the panels to a storage reel system

R C R B D

RECORD SET



- 3.0 Mils LDPE, UV protected coating
- Woven 12 x 12 count per inch, UV high density polyethylene
- EVA enhanced insulating polyethylene foam, Volara 1/8"



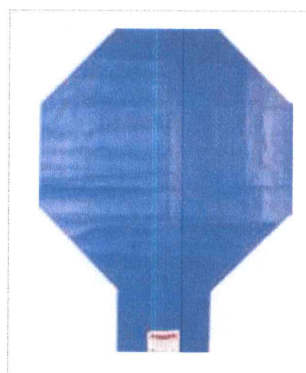
47129.....Pool Blanket
208200.....Loop Ties
50021.....18" Lead Strap

Spa Covers

Quality, Performance, Strength, Longevity

Spa covers are identical in every way to the pool cover benefits listed above except for the edging, as spa covers come unedged. Using household scissors you can cut them to fit your spa's custom configuration.

500019.....Spa Sheet 10' x 10'
500020.....Spa Sheet 15' x 15'
47129S.....Custom Edged Spa Blanket



INDUSTRY LEADING 6-YEAR WARRANTY AVAILABLE

Pool & Spa Blanket Benefits

SWIMMING POOL COVERS REDUCE ENERGY CONSUMPTION AND MORE

Pool Blanket Systems can offer significant energy savings and drastically reduce water and chemical consumption as well as cleaning time by keeping dirt and other debris out of the pool or spa. They often pay for themselves in less than one year when properly and consistently used.

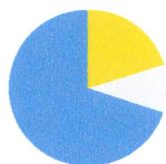
- Reduces energy consumption by maintaining pool cleaning costs
- Reduces chemical consumption
- Reduces facility building maintenance and pool cleaning costs
- Reduces corrosion of indoor facilities, extending the life of equipment

R C R B D U.S. Department of Energy

HOW THEY WORK

Swimming pools lose energy in a variety of ways, but evaporation is by far the largest source of energy loss. Replacing evaporated water requires tremendous amount of energy. It only takes 1 BTU (British thermal unit) to raise 1 pound of water 1 degree, but each pound of 80° F water that evaporates takes a whopping 1,048 BTU of heat out of the pool.

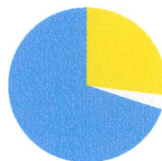
RECORD SET



Outdoor Pool Energy Loss Characteristics

Radiation to Sky 20%
Losses to ground and other 10%
Evaporation 70%

The evaporation rate from an outdoor pool varies depending on the pool's temperature, air temperature and humidity, and the wind speed at the pool surface.



Indoor Pool Energy Loss Characteristics

Ventilation 27%
Other 3%
Evaporation 70%

Indoor pools aren't subjected to the environment, but they still lose a lot of energy from evaporation and even require room ventilation to control indoor humidity caused by the large amount of evaporation. The ventilated air also must be conditioned, which adds to the energy costs.

Pool covers minimize evaporation from both outdoor and indoor pools. Covers on indoor pools not only reduce evaporation but also the need to ventilate indoor air and replace it with unconditioned outdoor air. You can also shut off exhaust fans when an indoor pool is covered saving even more energy.

Information obtained from the U.S. Department of Energy – www.energysavers.gov

"Covering a pool when it is not in use is the single most effective means of reducing pool heating costs. Savings of 50% - 70% are possible."



Pool Covers Also:

- Conserve water by reducing the amount of make-up water needed by 30%-50%
- Reduce the pool's chemical consumption by 35%-60%
- Reduce cleaning time by keeping dirt and other debris out of the pool



800.791.8056

Pool & Spa Cover Storage Systems

Bitterroot Series – Portable Blanket Storage Systems

Portable and strong, these systems ensure proper handling and storage of pool blankets. Made of electropolished 304L stainless steel and designed to support the weight of wet blankets.

Hands free, easy to use foot brakes. Superb holding power, an industry first.



- Easy to deploy and retrieve pool blankets
- Employs nickel-plated pillow block reel tube bearings
- Equipped with stainless steel crank assembly
- Utilizes 6" diameter, never-mar, polyethylene wheels
- Equipped with two-foot operated breaks
- Maximum blanket width of 20'
- Structurally designed to support wet blankets
- Made of electropolished 304L stainless steel
- Optional cover is available

R C R B D
RECORD SET

50120..... Bitterroot I, Single Tube Configuration

Storage capacity = 164 lf. Or 3,280 sq. ft. with a total weight capacity of 643 lbs.

50150..... Bitterroot II, Double Tube Configuration

Storage capacity = 328 lf. Or 6,560 sq. ft. with a total weight capacity of 1,102 lbs.

50180..... Bitterroot III, Triple Tube Configuration

Storage capacity = 492 lf. Or 9,840 sq. ft. with a total weight capacity of 1,562 lbs.

50190..... Single Winder Cover

50195..... Double/Triple Winder Cove

Blackfoot I – Wall Mount Blanket Storage Systems

Wall mounted storage system designed to conserve deck space and allow for ease of installation and retrieval of pool blankets. Accommodates up to 164 linear feet. Typically two panels will fit on the unit. Crank extensions are available for installations over 6' above deck.

50220..... Blackfoot I for blanket width up to 20'

50009..... Placement Crank Handle

Storage capacity – 164lf.

Blackfoot II – Radio Controlled Semi-Automatic Wall Mounted Blanket Storage Systems

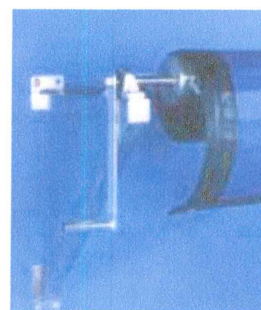
This wall mounted storage reel system offers smooth deployment and automatic retrieval of pool blankets through a simple hand held transmitter. Manufactured of stainless steel, the storage systems are structurally designed to support wet blankets. The electronics are contained in a water tight, NEMA 4 enclosure, ensuring dependable operation and long life. Generally one wall mount storage reel is needed for each section of blanket to be stored. Custom units are available to meet your specific needs.

50200 Blackfoot II for blanket width up to 20'

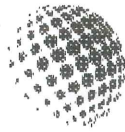
Storage capacity = 164 lf.

See Spectrum® Aquatics full line of aquatics products at www.SpectrumAquatics.com

ADA Compliant Pool Lifts
Starting Blocks
Guard Chairs
Racing Lane Lines
Pool Slides



Note: Bubble type covers are not recommended for use with the Blackfoot II

*QuickFund Capital*

Duckels Construction Inc
Business Line of Credit Pre Approval - \$250,000
Approval Confirmation- YP1077632E
Call Now (866)404-1329

Dear Fred

Based on your company paydex score and industry, QuickFund Capital Partners has pre-qualified Duckels Construction Inc for a business line of credit up to \$250,000.00 with rates starting at 4.9%.

Section 179 allows business owners in 2018 to write off up to \$500,000 in equipment purchases and loan cost.

Traditional banks are still not lending to small business which is why it has been difficult for business owners such as yourself to receive loans from your local bank. Call us today and speak to one of our qualified and experienced finance consultants and let us help you secure the funding you need today in as little as 48 hrs!

Types of Business Loans Available:

Bridge Loans
Equipment Purchases
Line of Credit
Franchisee Finance
Inventory Purchases

Term Loans
Inventory Purchases
Expansion Loans
Uncollateralized Loans
Collateralize Loans

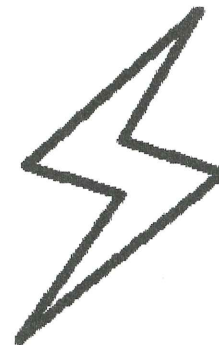
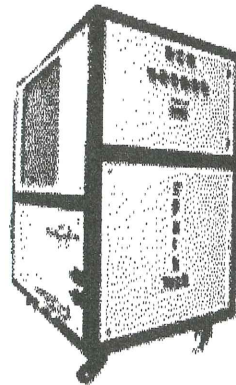
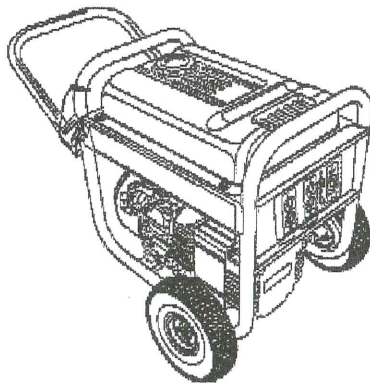
Sincerely,
Jessica Holstrom
QuickFund Capital
www.quickfund.org
866.404.1329

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We are buyers and sellers of all types of electrical equipment and surplus. We pay top dollar for the following items:

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- Motor Controls
- Switch Gears
- Starters
- Diesel Generators
- Electrical Equipment
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- Electric Panels
- Disconnects
- Industrial Water Chillers
- Empty Wire Spools
 - Wood or Plastic



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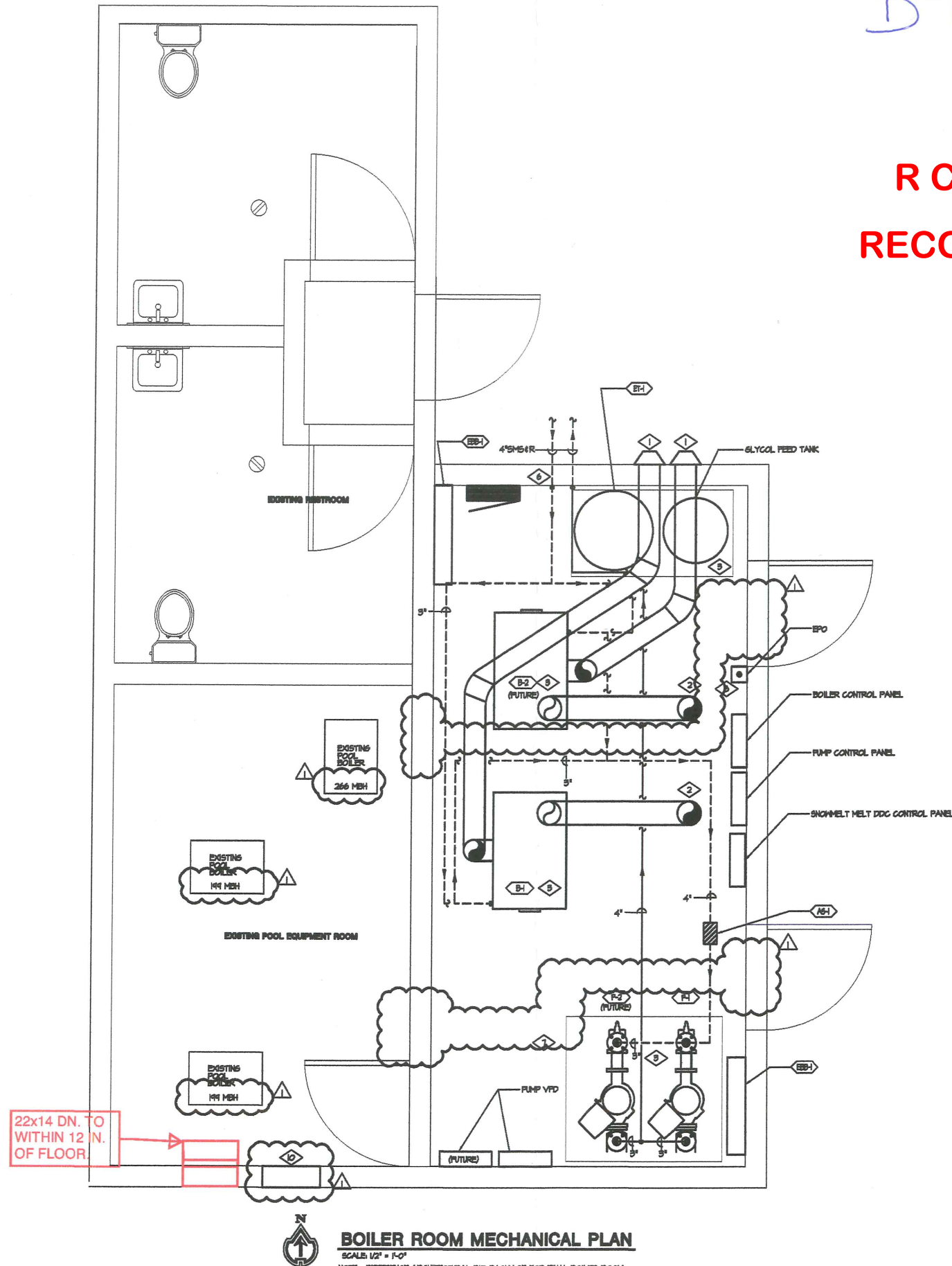
Call now with any questions or to Schedule a Pickup.

If you received this fax in error, Please call 1-866 632-3508 to be removed from our list.

5

B-18-184

RCRBD
RECORD SET



DRAWING NOTES

1. TERMINATE 8" COMBUSTION INTAKE PIPE THROUGH MALL WITH HOODED INTAKE CAP. CAP SHALL BE PROVIDED WITH BIRD SCREEN. TERMINATION SHALL BE 8 FT. ABOVE GRADE.
2. TERMINATE 8" FLUE DUCTS WITH UL LISTED AND APPROVED VERTICAL VENT TERMINATION VENT PIPE SHALL BE AL-28-4C POLYPRO MATERIAL. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. TERMINATION SHALL BE LOCATED AT LEAST 8 FT. FROM ADJACENT VERTICAL MALL.
3. EQUIPMENT SHALL BE MOUNTED ON A 4IN THICK CONCRETE HOUSEKEEPING PAD.
4. CONDENSATE DRAINS FROM BOILER SHALL BE ROUTED TO AN ACID NEUTRALIZING TANK BEFORE ENTERING THE PUBLIC SANITARY SEWER SYSTEM. ALL MATERIALS FROM BOILER TO NEUTRALIZATION TANK SHALL BE ACID RESISTANT. INSTALLING CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF ACID NEUTRALIZATION TANK WITH EQUIPMENT LAYOUT.
5. PROVIDE EPO SWITCH FOR SHUTDOWN OF MAIN LINE POWER OF BOILER BURNERS. COORDINATE VOLTAGE AND SHUT DOWN REQUIREMENTS WITH BOILER MANUFACTURER.
6. 4" SWS 1 R PIPING DOWN BELOW GRADE.
7. REFER TO THE BOILER ROOM SCHEMATIC PIPING PLAN ON SHEET M03 FOR DETAILS ON BOILER ROOM PIPING IN THIS AREA.
8. PROVIDE EPO SWITCH FOR BOILER SHUT OFF COORDINATED WITH ELECTRICAL.
9. REMOVE AND PATCH EXISTING HIGHLOW COMBUSTION AIR OPENINGS IN MALL.
10. PROVIDE A 22 X 14 COMBUSTION INTAKE GRILLE HIGH ON MALL. MOUNT WITHIN 12 IN. OF STRUCTURE.

EXISTING POOL BOILER ROOM
COMBUSTION AIR CALCULATION PER
2015 IFGC SECTION 304.6.2 ONE
PERMANENT OPENING METHOD.

TOTAL CONNECTED GAS LOAD = 484,900 BTUH

G.A. OPENING SIZE = $\frac{484,900}{3000} \times 1 \text{ SQ. IN.} =$

161.6 SQ. IN. < INSTALLED
OPENING SIZE 308 SQ. IN.

BOILER ROOM MECHANICAL PLAN

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

NOTE: REFERENCE ARCHITECTURAL BID PACKAGE FOR FINAL BOILER ROOM LAYOUT.



WATERPROOFING / RENOVATION - PHASE 2
TORIAN PLUM PARKING STRUCTURE
STEAMBOAT SPRINGS, CO

Date: 10/22/17
Drawn By: BAW
Reviewed by: RRR
Job No.: 17109
Revisions:
1. REVISION 1
2. REVISION 2

Issue:
100% Construction Documents
Sheet Title:
BOILER ROOM
MECHANICAL PLAN
Sheet Number:

M3.1

