AUBURN MUNICIPAL POOL RENOVATIONS

1020 H STREET
AUBURN, NE 68305



1 AQ0.0 SITE PLAN
SCALE: NTS

CODES & REGULATIONS:

1. CONSTRUCTION SHALL CONFORM TO THE FOLLOWING CODES & REGULATIONS:
   - NEBRASKA TITLE 178 ENVIRONMENTAL HEALTH - CHAPTER 2 DESIGN CONSTRUCTION, OPERATION, AND MAINTENANCE OF PUBLIC SWIMMING POOLS
   - INTERNATIONAL BUILDING CODE (I.B.C.), 2018 EDITION
   - NATIONAL ELECTRICAL CODE (N.E.C.), 2017 EDITION
   - ALL APPLICABLE LOCAL LAWS AND CODES
2. ADDITIONAL REQUIREMENTS
   - SWIMMING POOL SHALL COMPLY WITH ALL LOCAL HEALTH DEPARTMENT REQUIREMENTS.
   - GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS, AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO I.B.C. AND ALL AMENDMENTS THERETO BY THE LOCAL AUTHORITIES.
2. INTERPRETATION OF DRAWINGS & SPECIFICATIONS
   A. FOR CONVENIENCE, SPECIFICATIONS HAVE BEEN PREPARED FOR THIS PROJECT AND ARE ARRANGED IN SEVERAL SECTIONS, BUT SUCH SEPARATION SHALL NOT BE CONSIDERED AS THE LIMITS OF THE WORK REQUIRED OF ANY SEPARATE TRADE. THE TERMS AND CONDITIONS OF SUCH LIMITATIONS ARE WHOLLY BETWEEN THE CONTRACTOR AND HIS SUBCONTRACTORS.
   B. IN GENERAL, THE WORKING DETAILS WILL INDICATE DIMENSIONS, POSITION AND KIND OF CONSTRUCTION, AND THE SPECIFICATIONS, QUALITIES AND METHODS. ANY WORK INDICATED ON THE WORKING DETAILS AND NOT MENTIONED IN THE SPECIFICATION, OR VICE VERSA, SHALL BE FURNISHED AS THOUGH FULLY SET FORTH IN BOTH. WORK NOT PARTICULARLY DETAILED, MARKED OR SPECIFIED, SHALL BE THE SAME AS SIMILAR PARTS THAT ARE DETAILED, MARKED OR SPECIFIED. IF CONFLICTS OCCUR ON DRAWINGS AND/OR SPECIFICATIONS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
   C. SHOULD AN ERROR APPEAR IN THE WORKING DETAILS OR SPECIFICATIONS OR IN WORK DONE BY OTHERS AFFECTING THIS WORK, THE CONTRACTOR SHALL NOTIFY THE ENGINEER/ARCHITECT AT ONCE AND IN WRITING. IF THE CONTRACTOR PROCEEDS WITH THE WORK SO AFFECTED WITHOUT HAVING GIVEN SUCH WRITTEN NOTICE AND WITHOUT RECEIVING THE NECESSARY APPROVAL, DECISION, OR INSTRUCTIONS IN WRITING FROM THE OWNER, THEN HE SHALL HAVE NO VALID CLAIM AGAINST THE OWNER, FOR THE COST OF SO PROCEEDING AND SHALL MAKE GOOD ANY RESULTING DAMAGE OR DEFECT. NO VERBAL APPROVAL, DECISION, OR INSTRUCTION SHALL BE VALID OR BE THE BASIS FOR ANY CLAIM AGAINST THE OWNER, ITS OFFICERS, EMPLOYEES OR AGENTS. THE FOREGOING INCLUDES TYPICAL ERRORS IN THE SPECIFICATIONS OR NOTATIONAL ERRORS IN THE WORKING DETAILS WHERE THE INTERPRETATION IS DOUBTFUL OR WHERE THE ERROR IS SUFFICIENTLY APPARENT AS TO PLACE A REASONABLY PRUDENT CONTRACTOR ON NOTICE THAT, SHOULD HE ELECT TO PROCEED, HE IS DOING SO AT HIS OWN RISK.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE DESIGN DRAWINGS AND ANY OTHER PORTION OF THE CONTRACT DOCUMENTS OR EXISTING FIELD CONDITIONS. SUCH NOTIFICATION SHALL BE GIVEN IN DUE TIME SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE.
4. IN CASE OF A CONFLICT BETWEEN DESIGN DRAWINGS AND SPECIFICATIONS THE MORE RESTRICTIVE CONDITION SHALL TAKE PRECEDENCE UNLESS WRITTEN APPROVAL HAS BEEN GIVEN FOR THE LEAST RESTRICTIVE.
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH PROJECT DOCUMENTS PRIOR TO COMMENCING ANY WORK.
6. WHERE NO SPECIFIC DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT. SHOULD THERE BE ANY QUESTION, CONTACT THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING.
7. ANY SUBSTITUTIONS OR ALTERNATE DETAILS SHALL BE REVIEWED BY THE ARCHITECT/ENGINEER. SUCH REVIEW WILL REQUIRE A TIME AND MATERIALS CONTRACT TO BE SET UP WITH THE GENERAL CONTRACTOR WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWED.
8. DO NOT SCALE DRAWINGS. CONTACT THE ARCHITECT OR ENGINEER FOR ANY DIMENSIONS NOT SHOWN.
9. VERIFY EXACT LOCATIONS AND SIZES OF HOLES IN FLOOR, AND ROOF FOR PLUMBING, HVAC, AND ELECTRICAL WITH RESPECTIVE CONTRACTORS AND SUB-CONTRACTORS.
10. THE UNDERGROUND SERVICES AND UTILITIES SHOWN ON THE DRAWINGS REFLECT BEST AVAILABLE INFORMATION, HOWEVER, EXACT LOCATIONS FOR EACH SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE EXCAVATING, THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO LOCATE AND PROTECT ANY UNDERGROUND OR CONCEALED CONDUIT, PLUMBING, OR OTHER UTILITIES WHERE NEW WORK IS BEING PERFORMED.
11. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SCHEDULING, COORDINATION MEANS AND METHODS.
12. CARE MUST BE TAKEN BY ALL TRADES TO COORDINATE LOCATIONS OF UNDERGROUND PIPING AND CONDUITS TO ASSURE NO CONFLICTS. ALL PIPING SHOWN HEREIN IS DIAGRAMMATIC IN NATURE UNLESS OTHERWISE NOTED.

SAFETY NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL OSHA REQUIREMENTS.
2. THE OWNER AND THE STRUCTURAL ENGINEER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.

SHEET INDEX

SHEET NO.	SHEET TITLE
AQ0.0	AQUATICS COVER SHEET
AQ0.1	AQUATICS DEMOLITION PLAN
AQ0.2	MECHANICAL ROOM DEMOLITION PLAN
AQ0.3	AQUATICS RENOVATION PLAN
AQ1.0	SWIMMING POOL LAYOUT PLAN
AQ1.1	SPLASHPAD LAYOUT PLAN & SECTION
AQ1.2	AQUATIC DESIGN DETAILS
AQ1.3	AQUATIC DESIGN DETAILS
AQ2.0	SPLASHPAD STRUCTURAL PLAN & DETAILS
AQ2.1	BALANCE TANK STRUCTURAL PLAN & SECTIONS
AQ3.0	OVERALL PIPING PLAN
AQ3.1	SPLASHPAD SUCTION PIPING PLAN
AQ3.2	SPLASHPAD RETURN PIPING PLAN
AQ4.0	AQUATIC MECHANICAL ROOM PLAN
AQ4.1	BALANCE TANK PLAN & SECTIONS
AQ4.2	MECHANICAL DETAILS
AQ4.3	MECHANICAL DETAILS
AQ5.0	POOL SYSTEMS SCHEMATICS
AQ5.1	POOL BONDING SCHEMATICS
AQ6.0	ELECTRICAL SPECIFICATIONS
AQ6.1	PARTIAL ELECTRICAL SITE PLAN
AQ6.2	POWER PLANS
AQ6.3	ELECTRICAL SCHEDULES

SWIMMING POOL DESIGN DATA	
SIZE (LENGTH BY WIDTH):	151'-0" x 91'-8"
DEPTH PROFILE:	3'-0" TO 12'-0"
SURFACE AREA:	8,885 SF
PERIMETER:	595 FT
VOLUME:	298,800 GAL
MAX BATHER LOAD:	549 BATHERS
SYSTEM DESIGN DATA	
ZONE 1 TURNOVER RATE:	0.97 HRS
ZONE 2 TURNOVER RATE:	1.99 HRS
ZONE 3 TURNOVER RATE:	3.98 HRS
ZONE 4 TURNOVER RATE:	5.93 HRS
AVERAGE TURNOVER RATE:	3.62 HRS
RECIRCULATION RATE:	1375 GPM
FILTER AREA:	1211.00 SF
FILTRATION RATE:	1.1 GPM/SF
BACKWASH VOLUME:	615 GAL
SUCTION OUTLET DATA	
RECIRCULATION PUMP MAX FLOW RATE:	1,375 GPM
MAIN DRAIN MAX APPROVED FLOW RATE:	2,080 GPM
SUCTION PIPE VELOCITY @ DESIGN FLOW RATE:	3.94 FPS
SLIDE PUMP MAX FLOW RATE:	800 GPM
MAIN DRAIN MAX APPROVED FLOW RATE:	1,420 GPM
SUCTION PIPE VELOCITY @ DESIGN FLOW RATE:	5.62 FPS

SPLASHPAD DESIGN DATA	
SIZE (LENGTH BY WIDTH):	51'-0" x 39'-9"
DEPTH PROFILE:	0'-0"
SURFACE AREA:	1,000 SF
PERIMETER:	142 FT
VOLUME:	2,430 GAL
MAX BATHER LOAD:	81 BATHERS
SYSTEM DESIGN DATA	
TURNOVER RATE:	0.41 HRS
RECIRCULATION RATE:	100 GPM
FILTER AREA:	7.06 SF
FILTRATION RATE:	14.2 GPM/SF
BACKWASH FLOW RATE:	106 GPM
GRAVITY OUTLET DATA	
RECIRCULATION PUMP MAX FLOW RATE:	100 GPM
FEATURE PUMP MAX FLOW RATE:	207 GPM
MAIN DRAIN MAX APPROVED FLOW RATE:	240 GPM
RECIRC SUCTION PIPE VELOCITY @ DESIGN FLOW RATE:	4.84 FPS
FEATURE SUCTION PIPE VELOCITY @ DESIGN FLOW RATE:	5.77 FPS

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AQUATICS COVER SHEET

SHEET: AQ0.0

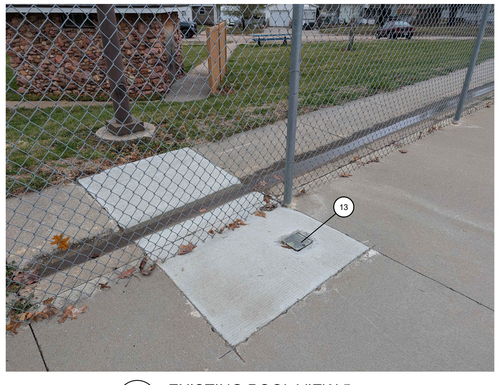
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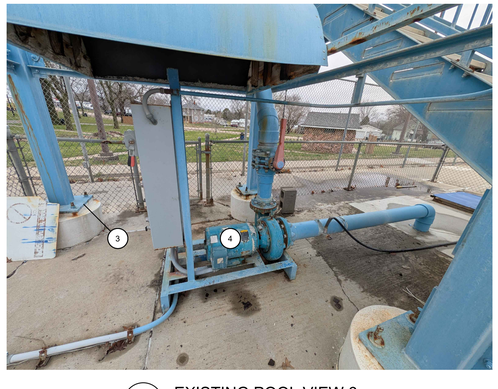
3 AQ0.1 EXISTING POOL VIEW 3
SCALE: NTS



3 AQ0.1 EXISTING POOL VIEW 4
SCALE: NTS



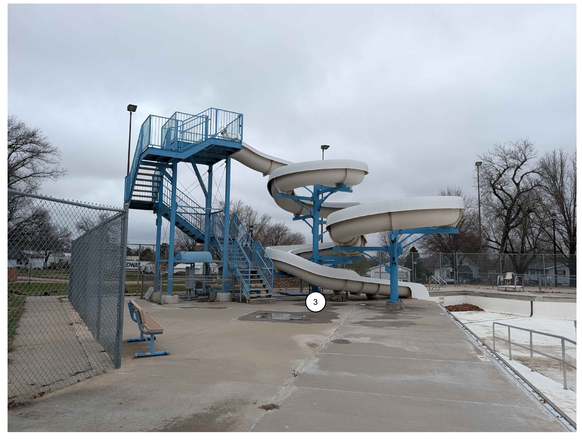
3 AQ0.1 EXISTING POOL VIEW 5
SCALE: NTS



3 AQ0.1 EXISTING POOL VIEW 6
SCALE: NTS



1 AQ0.1 AQUATICS DEMOLITION PLAN
SCALE: NTS



3 AQ0.1 EXISTING POOL VIEW 2
SCALE: NTS



2 AQ0.1 EXISTING POOL VIEW 1
SCALE: NTS

DEMOLITION GENERAL NOTES:

1. ALL APPLICABLE STATE & LOCAL LAWS AND CODES SHALL BE FOLLOWED.
2. ANY CHANGES OR UNCLEAR PORTIONS OF THIS PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING.
3. ANY CONDITION NOT SPECIFICALLY COVERED IN THIS PLAN OR UNUSUAL CONDITIONS ENCOUNTERED DURING DEMOLITION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING.
4. ALL PLAN DIMENSIONS SHALL BE VERIFIED PRIOR TO START OF WORK IN ACCORDANCE WITH AS-BUILT CONDITIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
5. CONTRACTOR SHALL COORDINATE INGRESS/EGRESS AND HAUL ROUTES WITH THE OWNER PRIOR TO START OF WORK.
6. THE CONTRACTOR IS RESPONSIBLE FOR ESTIMATIONS THAT TAKES INTO REGARD DEMOLITION PREPARATION, AS WELL AS MEANS AND METHODS OF DEMOLITION. CONTRACTOR SHALL VISIT THE SITE AS REQUIRED TO ACCOMPLISH THE WORK, AND TO BECOME FAMILIAR WITH SCOPE AND SERVICES OF WORK REQUIRED.
7. PROTECT ALL SITE MECHANICAL, ELECTRICAL, AND PLUMBING DURING DEMOLITION. ITEMS INCLUDED BUT ARE NOT LIMITED TO ANY HOSE BIBBS, DRINKING FOUNTAINS, ELECTRICAL CONDUIT, SITE ELECTRICAL, AND BURIED PIPING NOT CALLED OUT FOR DEMOLITION ON PLANS. CONTRACTOR TO VERIFY WITH AS-BUILTS AND SITE CONDITIONS FOR EXISTING CONDITIONS OF SITE. ENGINEER NOT RESPONSIBLE FOR ANY ITEMS FOUND IN THE FIELD NOT SHOWN ON THIS DOCUMENT.
8. THE CONTRACTOR SHALL COORDINATE DEMOLITION WITH OTHER TRADES AND SHALL PROTECT ALL EXISTING WORK, EQUIPMENT, PIPING, FITTINGS, ETC. THROUGHOUT THE CONTRACT.
9. ALL DEMOLISHED DEBRIS AND EQUIPMENT IS TO BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR (UNLESS NOTED OTHERWISE) AS REQUIRED BY LOCAL & STATE REGULATIONS.
10. IF SWIMMING POOL IS TO BE DRAINED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NEUTRALIZE POOL WATER TO 0.0 CHLORINE LEVEL AND DRAIN WITH PERMISSION OF THE LOCAL GOVERNING AGENCIES. CONTRACTOR TO PERFORM CHLORINE NEUTRALIZATION TEST. INSPECTOR OF RECORD TO CONFIRM TEST HAS BEEN COMPLETED PRIOR TO DISCHARGE.
11. CONTRACTOR RESPONSIBLE FOR COORDINATING ALL NECESSARY STREET CLOSURES WITH GOVERNING AGENCIES.
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13. COORDINATE INGRESS/EGRESS AND HAUL ROUTES WITH THE OWNER PRIOR TO START OF WORK.
14. CONTRACTOR SHALL PROTECT THE OWNER-OCCUPIED BUILDING FROM NOISE, DUST, AND ANY OTHER DEMOLITION DANGERS.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING BUILDING AND SITE IMPROVEMENTS FROM DEMOLITION EQUIPMENT AND DEBRIS. ANY DAMAGE TO BUILDING ASSUMED TO BE FROM DEMOLITION SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.

DEMOLITION KEYED NOTES:

1. PROVIDE SECOND MEANS OF ADA ACCESS (ADDITIONAL RAIL) AT RAMP ENTRY
2. REMOVE 3M DIVING BOARD AND REPLACE WITH CLIMBING WALL
3. RESTORE AN RENOVATE SLIDE TOWER AT SLIDE. REPAIR CRACKED FOOTINGS, REPLACE CORRODED ANCHOR BOLTS, RESTORE EXTERIOR PAINT, AND RE-GELCOAT INTERIOR SURFACE OF SLIDE.
4. REPLACE WATERSLIDE PUMP WITH NEW.
5. DEMOLISH KIDDIE POOL AND EXCAVATE PIPING TO 18 INCHES DEPTH. PERMANENTLY CAP ALL SUPPLY AND RETURN LINES AND BACKFILL WITH PACKED AGGREGATE. INSTALL NEW 900-1,000 SQUARE FOOT SPLASHPAD WITH INDEPENDENT FILTRATION SYSTEM AND BALANCE TANK.
6. CLEAN STAINLESS STEEL GUTTER AND REPLACE MISSING GUTTER SUPPLY NOZZLES.
7. REMOVE EXISTING DECK TO GUTTER CAULK AND BACKER RODS. REPLACE BACKER RODS WITH NEW AND RE-CAULK JOINTS.
8. REPLACE CRACKED DEPTH MARKERS WITH NEW.
9. REMOVE AND REPLACE CAULKING AT GUTTER/POOL INTERFACE.
10. REPAIR CRACKS IN POOL FLOOR AND WALLS.
11. REMOVE POOL FINISH AND RE-PAINT POOL.
12. REPAIR HANDRAILS, LADDER ANCHORS, AND ESCUTCHEON PLATES AS REQUIRED.
13. REPLACE FOUR (4) IN DECK WATER HYDRANTS WITH VERTICAL UNITS.

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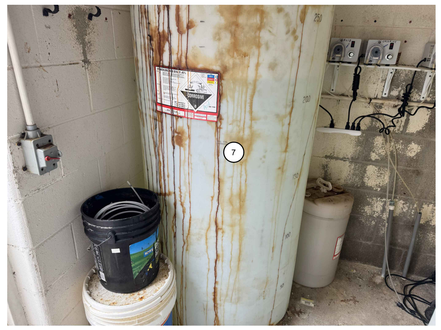
AQUATICS DEMOLITION PLAN

SHEET: AQ0.1

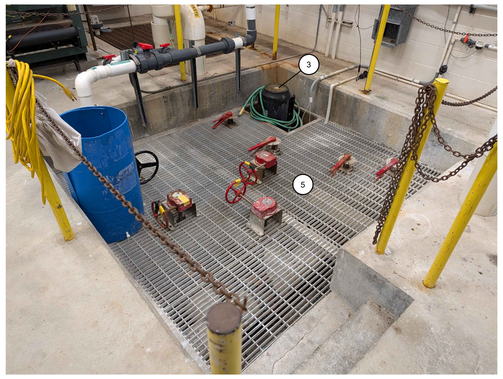
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9 AQ0.2 EXISTING MECHANICAL ROOM VIEW
SCALE: NTS



5 AQ0.2 EXISTING ACID TANK
SCALE: NTS



1 AQ0.2 EXISTING VACUUM SAND FILTER & FILTER PUMP
SCALE: NTS



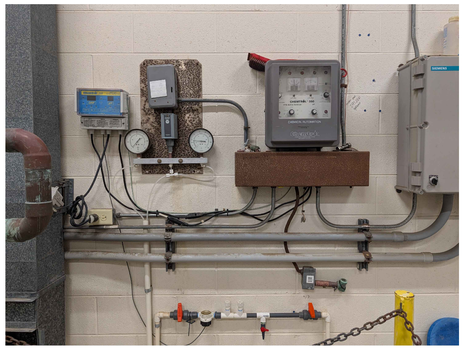
10 AQ0.2 EXISTING MECHANICAL EXHAUST FANS
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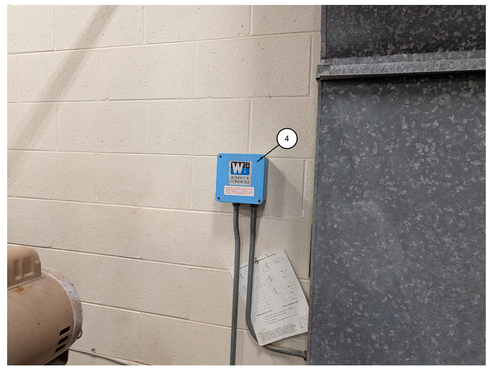
6 AQ0.2 EXISTING CHEMICAL FEED PUMPS
SCALE: NTS



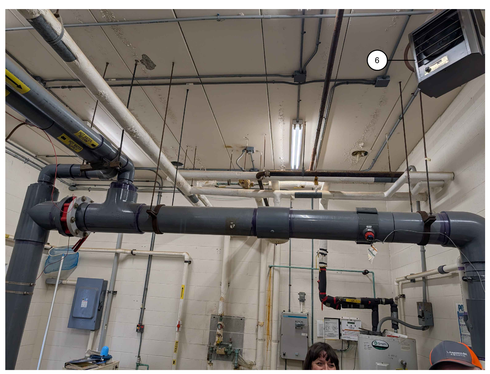
2 AQ0.2 EXISTING POOL HEATER
SCALE: NTS



7 AQ0.2 EXISTING CHEMICAL CONTROLLER
SCALE: NTS



3 AQ0.2 EXISTING WATER LEVEL CONTROLLER
SCALE: NTS



8 AQ0.2 EXISTING MECHANICAL ROOM HEATER
SCALE: NTS



4 AQ0.2 EXISTING CHLORINE TANKS
SCALE: NTS

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DEMOLITION KEYED NOTES:

1. REPLACE NATURAL GAS HEATER WITH NEW.
2. REPLACE CORRODED WATER LINE IN FILTER ROOM.
3. REPLACE FILTER PUMP.
4. REPLACE WATER LEVEL UNIT.
5. REPLACE VACUUM SAND FILTER WITH REGENERATIVE MEDIA FILTER.
6. REPLACE ONE EXHAUST FAN ON ROOF AND TWO ELECTRIC UNIT HEATERS FOR FILTER ROOM AND CHEMICAL ROOM.
7. REPLACE LIQUID CHLORINE AND ACID DELIVERY SYSTEMS WITH EROSION FEEDERS.
8. INCREASE FLOW RATE TO MEET CURRENT HEALTH CODE TURNOVER REQUIREMENTS.

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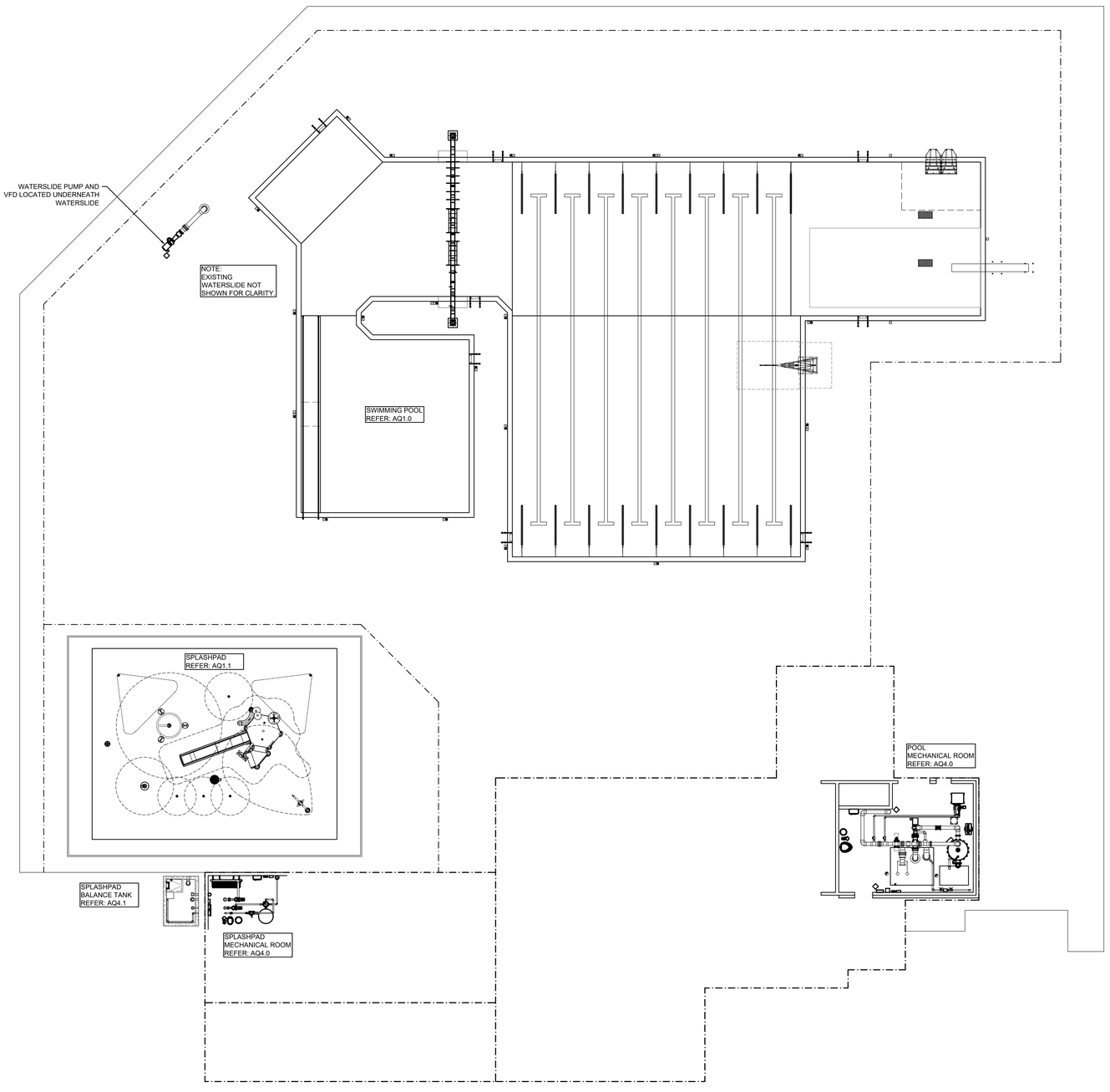
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MECHANICAL ROOM DEMOLITION PLAN

SHEET: AQ0.2

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1 AQ0.3 AQUATICS RENOVATION PLAN
SCALE: 3/32" = 1'-0"

SITE NOTES:

1. FOR FINAL POOL SITE LOCATIONS REFER TO ARCHITECTURAL DRAWINGS.
2. SITE PLAN IS TO BE USED IN CONJUNCTION WITH POOL PLANS (**AQ1.0-AQ1.2**), STRUCTURAL PLANS (**AQ2.0-AQ2.1**), AND PIPING PLANS (**AQ3.0-AQ3.2**). REFER TO THOSE PLANS FOR INFORMATION NOT SHOWN.
3. POOL DECKING TO BE SLIP RESISTANT AND SLOPE AWAY FROM POOLS AT NO LESS THAN 1% AND NO GREATER THAN 2% SLOPE TO DECK DRAINAGE SYSTEM, REFER TO ARCHITECTURAL PLANS.
4. FOR POOL DECK DRAINAGE SYSTEM LOCATIONS REFER TO CIVIL DRAWINGS.
5. LIFEGUARD EQUIPMENT SHALL BE PROVIDED AS REQUIRED BY GOVERNING AGENCY.
6. HOSE BIBBS SHALL BE PROVIDED SO THAT ALL PORTIONS OF THE POOL DECK AREA MAY BE REACHED WITH A 75 FOOT LENGTH HOSE. FOR LOCATIONS REFER TO PROJECT LANDSCAPE & CIVIL DRAWINGS.
7. AT LEAST ONE 125-VOLT 15 OR 20 AMP GFCI PROTECTED RECEPTACLE ON A GENERAL PURPOSE BRANCH CIRCUIT SHALL BE LOCATED NOT LESS THAN 6 FEET AND NOT MORE THAN 20 FEET FROM THE INSIDE WALL OF THE SPA. FOR LOCATIONS REFER TO ELECTRICAL DRAWINGS.
8. ALL EXIT GATES AND DOORS SHALL OPEN OUTWARD, AWAY FROM THE POOL, EXCEPT WHERE OTHERWISE DICTATED BY APPLICABLE CODE.
9. ALL GATES AND DOORS FOR POOL AREA SHALL BE EQUIPPED WITH SELF-CLOSING AND SELF-LATCHING DEVICES.
10. ALL EXIT DOORS AND GATES SERVING THE POOL AREA MUST BE EQUIPPED WITH PANIC HARDWARE LOCATED 42" TO 44" ABOVE DECK SURFACE PER GROUP OCCUPANCY REQUIREMENTS.
11. POOL ENCLOSURE SHALL BE INSTALLED PER THE REQUIREMENTS OF 2024 IBC SECTION 3119.
12. OCCUPANT LOAD SIGN SHALL BE POSTED IN CONSPICUOUS PLACE NEAR THE MAIN POOL ENTRANCE/EXIT PER IBC SECTION 1004.3.
13. ALL APPLICABLE STATE & LOCAL LAWS AND CODES SHALL BE FOLLOWED.

SWIMMING POOL SIGNAGE:

1. ALL SIGNS SHALL HAVE CLEARLY LEGIBLE LETTERS OR NUMBERS AFFIXED TO A WALL, POLE, GATE, OR SIMILAR PERMANENT STRUCTURE IN A LOCATION VISIBLE TO ALL USERS.
2. THE EMERGENCY TELEPHONE NUMBER SHALL BE POSTED WITH MINIMUM FOUR (4") INCH LETTERS THAT READS: "**9-1-1**". THE NUMBER OF THE NEAREST EMERGENCY SERVICES AND THE NAME AND STREET ADDRESS OF THE POOL FACILITY SHALL BE POSTED WITH MINIMUM ONE (1") INCH LETTERS.
3. AN ILLUSTRATED DIAGRAM SHALL BE POSTED WITH MINIMUM 1/4 INCH LETTERS OF **ARTIFICIAL RESPIRATION AND CPR PROCEDURES**.
4. EXTERIOR SIDE OF GATES AND DOORS LEADING INTO THE POOL ENCLOSURE AREA SHALL HAVE A SIGN POSTED WITH MINIMUM FOUR (4") INCH LETTERS THAT READS:**"KEEP CLOSED"** ADDITIONALLY WHERE POOLS ARE CONSTRUCTED FOR WHICH LIGHTING IS NOT REQUIRED, THE SIGN SHALL HAVE MINIMUM ONE (1") INCH LETTERS THAT READS: **"NO USE OF POOL ALLOWED AFTER DARK"**
5. A SIGN SHALL BE POSTED WITH MINIMUM FOUR (4") INCH LETTERS THAT READS: **"POOL RULES"** IN A CONSPICUOUS PLACE NEAR THE SPA. THE SIGN SHALL STATE IN MINIMUM ONE (1") INCH LETTERS/GRAPHICS:
   - PERSONS WITH SORE OR INFLAMED EYES, COLDS, NASAL OR EAR DISCHARGES, BOILS OR OTHER ACUTE OR OBVIOUS SKIN OR BODY INFECTIONS, OR CUTS SHALL BE EXCLUDED FROM POOL.
   - NO GLASSES ALLOWED WITHIN THE POOL ENCLOSURES.
   - NO ANIMALS ALLOWED EXCEPT FOR SERVICE ANIMALS.
   - NO DRINKS, CANDY, TOBACCO, POPCORN, GUM, ALCOHOL, OR FOOD OF ANY KIND SHALL BE PERMITTED IN THE POOL OR WITHIN THE REQUIRED WALKWAYS OF THE POOL.
   - KEEP GATE(S) CLOSED - DO NOT PROP OPEN.
   - SHOWER BEFORE ENTERING THE POOL.
   - IF INCONTINENT, WEAR TIGHT FITTING RUBBER OR PLASTIC PANTS OR A SWIM DIAPER.
   - OBSERVE ALL SAFETY REGULATIONS.

BATHER LOAD SIGNAGE:

1. THE POOL USER CAPACITY SHALL BE BASED ON ONE USER FOR EVERY FIFTEEN (15) SQUARE FEET OF WATER SURFACE AREA IN WATER DEPTH LESS THAN 5'-0", AND TWENTY-FIVE (25) SQUARE FEET IN WATER DEPTH GREATER THAN 5'-0".
2. A SIGN WITH CLEARLY LEGIBLE LETTERS NOT LESS THAN FOUR (4") HIGH THAT READS: **"MAXIMUM BATHER CAPACITY: XX PERSONS"** SHALL BE POSTED IN A CONSPICUOUS PLACE WITHIN THE SPA ENCLOSURE OR NEAR THE MAIN ENTRANCE THAT SHALL INDICATE THE NUMBER OF BATHERS PERMITTED FOR EACH BODY OF WATER.

WARNING SIGNAGE:

1. WHERE NO LIFEGUARD SERVICE IS PROVIDED, A WARNING SIGN SHALL BE POSTED IN PLAIN VIEW WITH MINIMUM FOUR (4") INCH LETTERS THAT READS: **"WARNING: NO LIFEGUARD ON DUTY"** ADDITIONALLY THE SIGN SHALL STATE IN LETTERS AT LEAST 1 INCH IN HEIGHT: **"CHILDREN UNDER THE AGE OF 18 SHALL NOT USE POOL WITHOUT A PARENT OR ADULT GUARDIAN IN ATTENDANCE"**
2. FOR POOLS WITH A MAXIMUM WATER DEPTH OF 5'-0" OR LESS, A WARNING SIGN SHALL BE POSTED IN PLAIN VIEW WITH MINIMUM FOUR (4") INCH LETTERS THAT READS: **"NO DIVING ALLOWED"**.
3. A SIGN POSTED IN A CONSPICUOUS PLACE SHALL STATE: **"NOTIFY THE MANAGER OR OPERATOR ON DUTY IF THE MAIN DRAIN IS NOT VISIBLE"**

SWIMMING POOL & SPLASHPAD FINISH SCHEDULE	
POOL FINISH	LIGHT COLORED EPOXY PAINT BY TNEMEC OR APPROVED EQUAL. PROVIDE NON-SLIP FINISH AT RAMP ENTRY.
DECK DEPTH MARKERS	6-IN X 6-IN SLIP-RESISTANT CERAMIC TILE BY INLAYS INC. COLOR WHITE WITH 4-IN BLACK LETTERS, FT SERIES #C6200XX AND IN SERIES #C6205XX
WATERLINE DEPTH MARKERS	6-IN X 6-IN SMOOTH CERAMIC TILE BY INLAYS INC. COLOR WHITE WITH 4-IN BLACK LETTERS, FT SERIES #C6100XX AND IN SERIES #C6105XX
NO DIVING MARKERS	6-IN X 6-IN SLIP RESISTANT CERAMIC TILE BY INLAYS INC. COLOR WHITE WITH RED/BLACK INTERNATIONAL NO DIVING SYMBOL. DECK TILE MG SERIES #C6215XX, WATERLINE TILE MG SERIES #C6115XX
SPLASHPAD FINISH	LIFE FLOOR. COLOR / DESIGN BY OWNER.
ALL FINAL COLOR SELECTIONS TO BE MADE BY OWNER/ARCHITECT	

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AUBURN, NE 68305

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DATE: BY:

REV	DATE:	COMMENT:

AQUATICS RENOVATION PLAN

SHEET: AQ0.3

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POOL LAYOUT PLAN GENERAL NOTES:

1. POOL FINISH PER FINISH SCHEDULE.
2. PLAN IS TO BE USED IN CONJUNCTION WITH THE POOL STRUCTURAL PLANS (SP2.0) AND PIPING PLAN (SP3.1). REFER TO THOSE PLANS FOR UN-CLEAR PORTIONS OR INFORMATION NOT SHOWN.
3. ALL DIMENSIONS SHALL BE VERIFIED PRIOR TO START OF WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
4. OVERALL DIMENSIONS SHOWN ARE FROM THE OUTSIDE FINISH OF WALLS & FLOORS.
5. FEATURES OR EQUIPMENT DIMENSIONS SHOWN ARE FROM CENTER TO CENTER.
6. DEPTH MARKERS AND WARNING SIGNS ARE SHOWN IN APPROXIMATE LOCATIONS. DEPTH MARKERS AND WARNING SIGNS MAY NOT EXCEED 25'-0" APART PER LOCAL CODE. NO DIVING WARNING SIGNAGE ONLY REQUIRED WHEN POOL DEPTH IS LESS THAN 6 FEET.
7. LIFEGUARD EQUIPMENT SHALL BE PROVIDED AS REQUIRED BY CODE GOVERNING AGENCY.
8. ALL METAL COMPONENTS TO BE BONDED & GROUNDED PER N.E.C.
9. ALL APPLICABLE STATE AND LOCAL LAWS AND CODES SHALL BE FOLLOWED.

SWIMMING POOL LAYOUT EQUIPMENT SCHEDULE

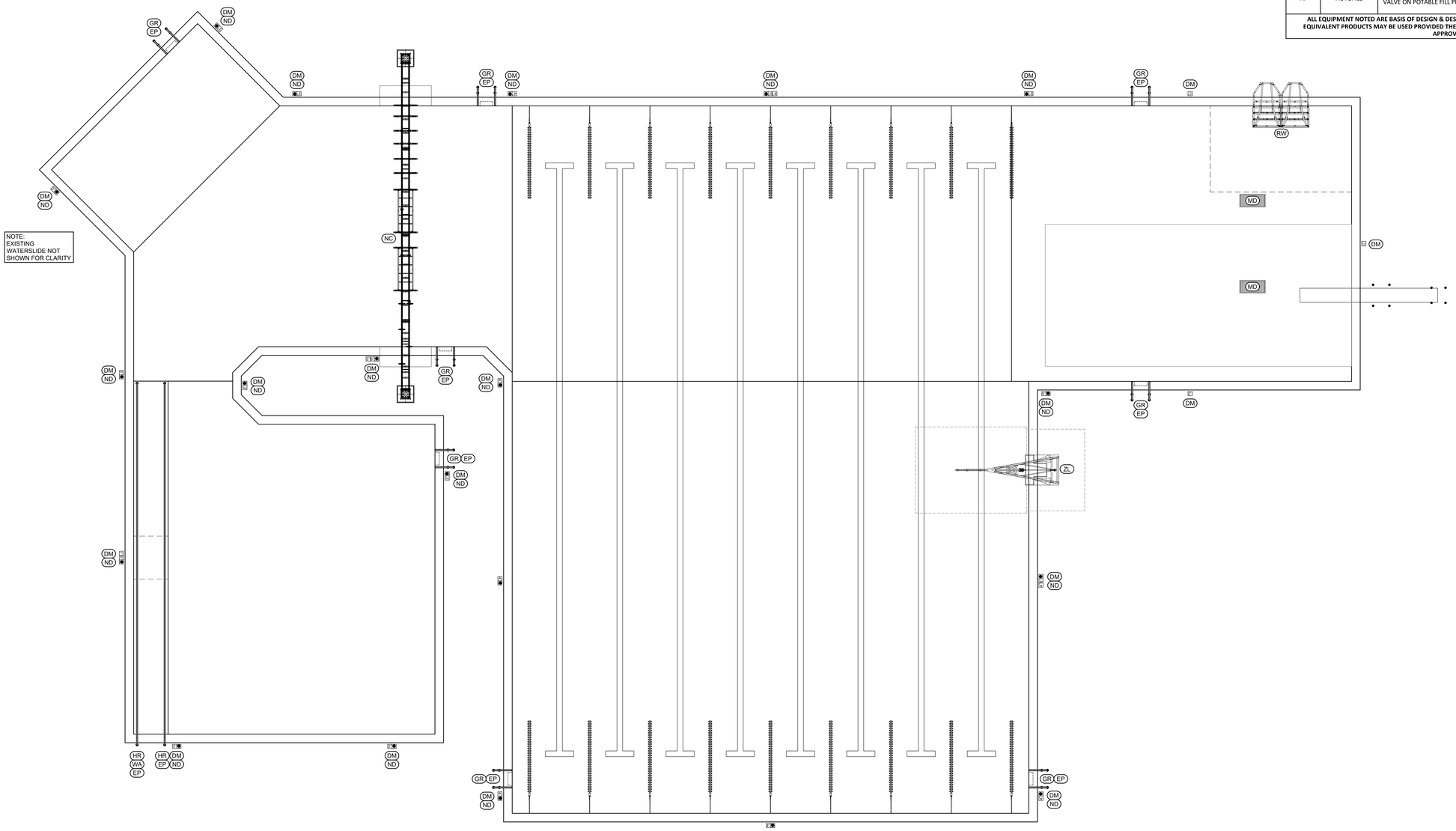
CALL OUT	EQUIPMENT	QTY	MODEL/DESCRIPTION
DM	DEPTH MARKERS	22	6-IN X 6-IN SLIP RESISTANT CERAMIC TILE. REFER TO FINISH SCHEDULE
ND	NO DIVING MARKER	19	6-IN X 6-IN SLIP RESISTANT CERAMIC TILE
GR	GRAB RAILS	8	SPECTRUM COHO FIGURE FOUR STAINLESS STEEL, 26-IN WIDE X 34-IN TALL GRAB RAILS, 1.90-IN OD X 0.109-IN THICK WALL. #37150-26-..109
HR	HANDRAILS	2	CUSTOM 3-BEND 316L STAINLESS STEEL RAILS, 1.9-IN OD, 0.109-IN THICK BY SPECTRUM ITEM #35011-60-.109
EP	ESCUTCHEON PLATES	48	SPECTRUM, 316L STAINLESS STEEL ROUND ESCUTCHEON PLATE FOR USE WITH 1.90-IN RAILS, #30037
WA	WEDGE ANCHOR	8	SPECTRUM CAST BRONZE, 4.25-IN LONG, ACCEPTS 1.90-IN OD TUBING. #24010-00
RW	ROCK WALL	1	AQUA CLIMB CLASSIC (4-PANEL)
ZL	ZIP LINE	1	AQUA CLIMB AQUA ZIP-N
NC	NINJACROSS	1	NINJACROSS SYSTEMS 35-FT LONG SINGLE LANE UNIT

ALL EQUIPMENT NOTED ARE BASIS OF DESIGN & DESIGNATE MINIMUM PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS MAY BE USED PROVIDED THEY ARE SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL.

SWIMMING POOL RECIRCULATION EQUIPMENT SCHEDULE

CALL OUT	EQUIPMENT	MODEL/DESCRIPTION
MD	MAIN DRAIN	NEPTUNE BENSON - LAWSON AQUATICS SUPERFLOW MLD-FG-1836, ANSI/APSP-16 - VGB 2017 CERTIFIED FOR 2,080-GPM FLOW RATE WITH 343.44-SQUARE INCH OF OPEN AREA
AF	AUTOFILL	JANDY-LEVELOR K-1100 WATER FILL CONTROL PANEL WITH STATIC PIPE AND PROBE SYSTEM LOCATED IN BALANCE TANK. ASCO SLOW CLOSING SOLENOID VALVE ON POTABLE FILL PIPING, CONNECT TO FILL FILL FUNNEL WITH 6-INCH AIR GAP.

ALL EQUIPMENT NOTED ARE BASIS OF DESIGN & DESIGNATE MINIMUM PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS MAY BE USED PROVIDED THEY ARE SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL.



1 AQ1.0 SWIMMING POOL LAYOUT PLAN
SCALE: 3/16" = 1'-0"

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PROFESSIONAL MECHANICAL ENGINEER
MATTHEW ZAPPELLO
E-17531
STATE OF NEBRASKA

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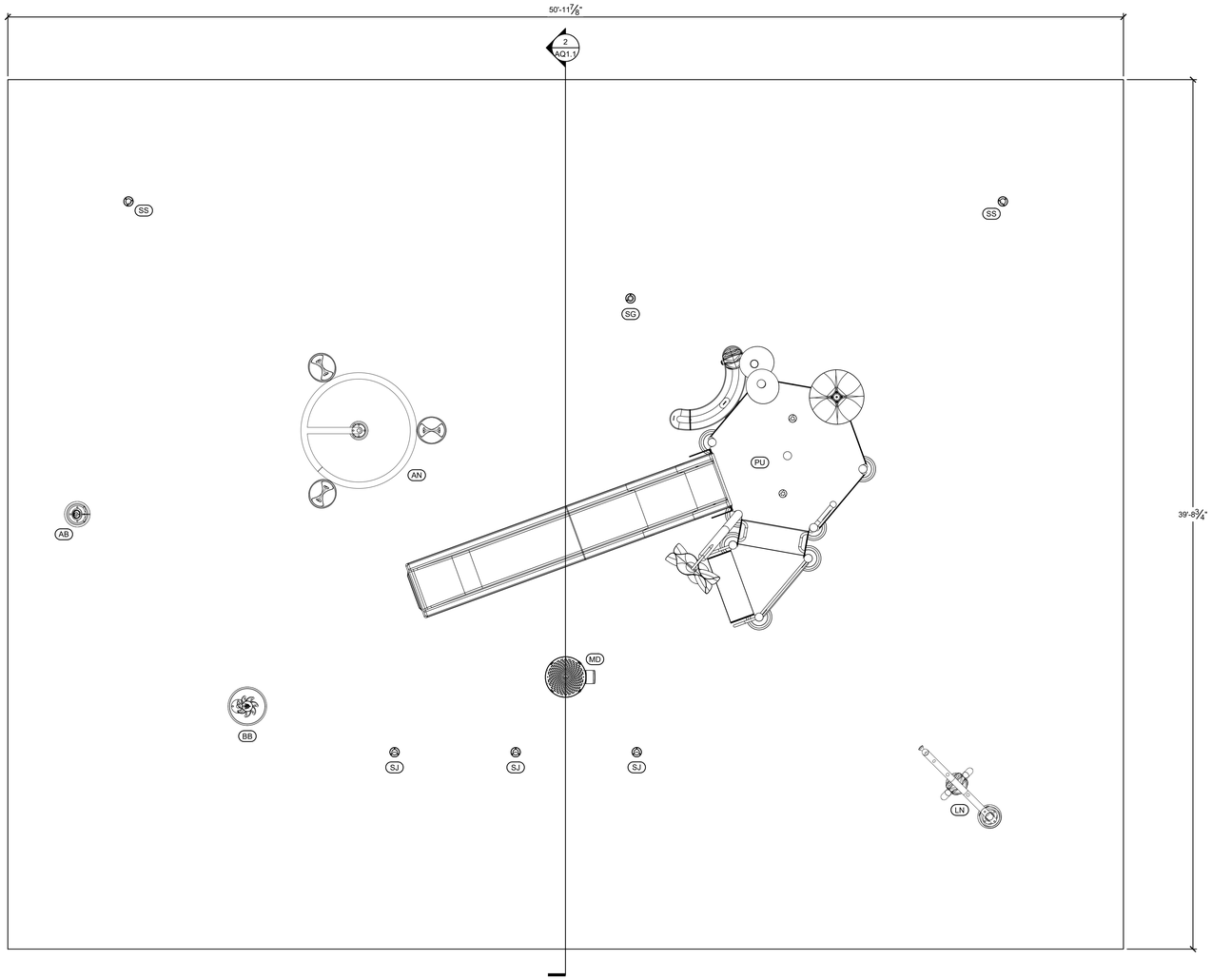
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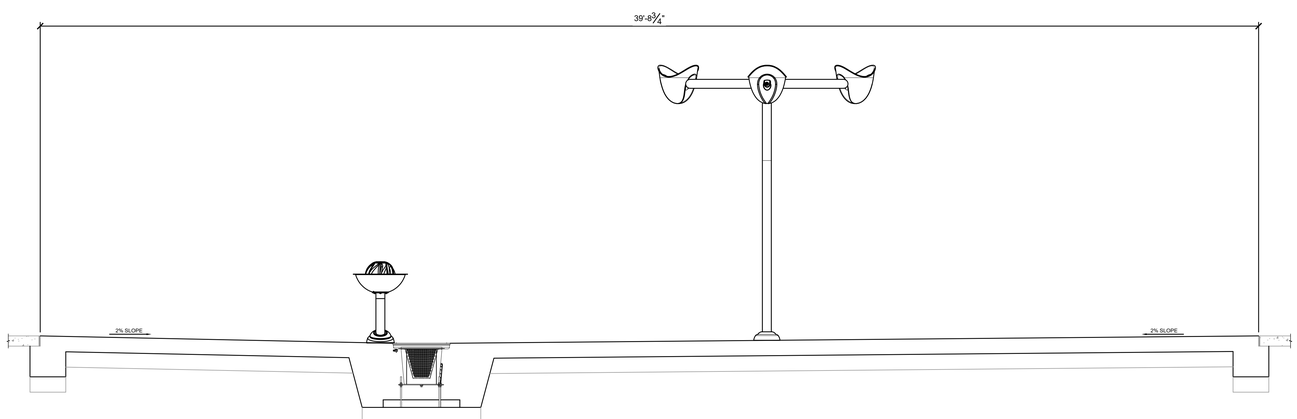
SWIMMING POOL LAYOUT PLAN

SHEET: AQ1.0

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1 AQ1.1 SPLASHPAD LAYOUT PLAN
SCALE: 3/8" = 1'-0"



2 AQ1.1 SPLASHPAD SECTION
SCALE: 3/8" = 1'-0"

SPLASHPAD LAYOUT PLAN GENERAL NOTES:

1. SPLASHPAD FINISH PER FINISH SCHEDULE.
2. PLAN IS TO BE USED IN CONJUNCTION WITH THE POOL STRUCTURAL PLANS (SP2.0) AND PIPING PLAN (SP3.1). REFER TO THOSE PLANS FOR UN-CLEAR PORTIONS OR INFORMATION NOT SHOWN.
3. ALL DIMENSIONS SHALL BE VERIFIED PRIOR TO START OF WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
4. OVERALL DIMENSIONS SHOWN ARE FROM THE OUTSIDE FINISH OF FLOORS.
5. FEATURES OR EQUIPMENT DIMENSIONS SHOWN ARE FROM CENTER TO CENTER.
6. LIFEGUARD EQUIPMENT SHALL BE PROVIDED AS REQUIRED BY CODE GOVERNING AGENCY.
7. ALL METAL COMPONENTS TO BE BONDED & GROUNDED PER N.E.C.
8. ALL APPLICABLE STATE AND LOCAL LAWS AND CODES SHALL BE FOLLOWED.

SPLASHPAD LAYOUT EQUIPMENT SCHEDULE

CALL OUT	EQUIPMENT	QTY	MODEL/DESCRIPTION
AB	VORTEX ACTIVATOR NO5	1	VOR-0623
SJ	VORTEX SPRAYLINK JET NO2	3	VOR-3001, 15-GPM
SS	VORTEX SPRAYLINK SPLIT	2	VOR-3003, 5-GPM
SG	VORTEX SPRAYLINK GEYSER	1	VOR-3005, 5-GPM
BB	VORTEX BOBBLE NO1	1	VOR-7232, 6-GPM
LN	VORTEX LUNA NO3	1	VOR-7234, 6.5-GPM
AN	VORTEX ASTRA NO2	1	VOR-7698, 7.5-GPM
PU	VORTEX L2 AQUATIC PLAY UNIT	1	VOR-37858, 162-GPM

ALL EQUIPMENT NOTED ARE BASIS OF DESIGN & DESIGNATE MINIMUM PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS MAY BE USED PROVIDED THEY ARE SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL.

SPLASHPAD RECIRCULATION EQUIPMENT SCHEDULE

CALL OUT	EQUIPMENT	MODEL/DESCRIPTION
MD	MAIN DRAIN	PLAYSAFE DRAIN NO4, VOR-1004, 22-IN DIAMETER COVER, 6-IN MAX PIPE CONNECTION, 240-GPM FLOW
AF	AUTOFILL	JANDY-LEVELOR K-1100 WATER FILL CONTROL PANEL WITH STATIC PIPE AND PROBE SYSTEM LOCATED IN BALANCE TANK. ASCO SLOW CLOSING SOLENOID VALVE ON POTABLE FILL PIPING, CONNECT TO FILL FILL FUNNEL WITH 6-INCH AIR GAP.
BT	BALANCE TANK ACCESS HATCH AND LADDER RUNGS	REGAL PLASTICS HDPE BOAT BOARD, 36 IN X 30 IN X 3/4 IN THICK TEXTURED, SLIP RESISTANT. MA INDUSTRIES GRADE 60 STEEL ENCASED COPOLYMER PLASTIC SURGE TANK LADDER RUNGS.
AB	VORTEX ACTIVATOR NO5	VOR-0623, QTY 1
SJ	VORTEX SPRAYLINK JET NO2	VOR-3001, 15-GPM EACH, QTY 3
SS	VORTEX SPRAYLINK SPLIT	VOR-3003, 5-GPM EACH, QTY 2
SG	VORTEX SPRAYLINK GEYSER	VOR-3005, 5-GPM EACH, QTY 1
BB	VORTEX BOBBLE NO1	VOR-7232, 6-GPM EACH, QTY 1
LN	VORTEX LUNA NO3	VOR-7234, 6.5-GPM EACH, QTY 1
AN	VORTEX ASTRA NO2	VOR-7698, 7.5-GPM, QTY 1
PU	VORTEX L2 AQUATIC PLAY UNIT	VOR-37858, 162-GPM, QTY 1

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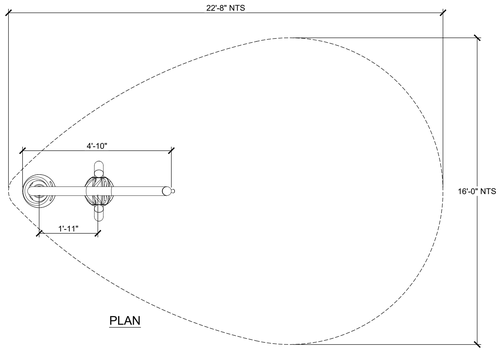
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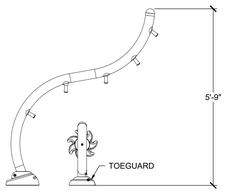
SPLASHPAD LAYOUT PLAN & SECTION

SHEET: AQ1.1

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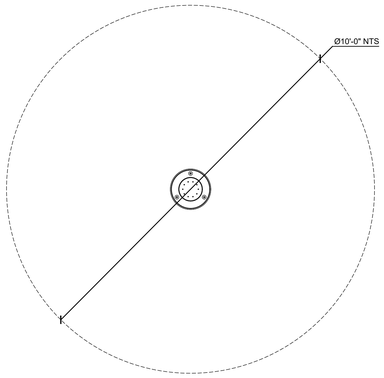


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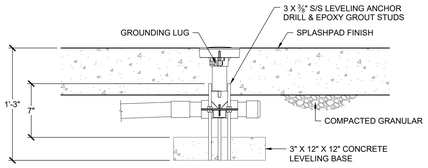


ELEVATION

10 AQ1.2 **LUNA NO3**
SCALE: 1/2" = 1'-0"

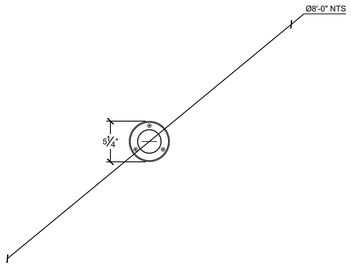


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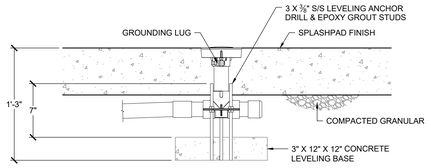


ELEVATION

7 AQ1.2 **SPRAYLINK GEYSER**
SCALE: 1 1/2" = 1'-0"

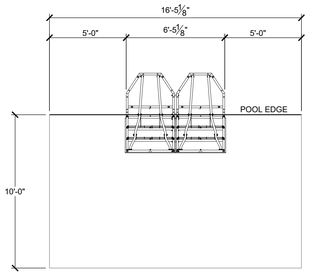


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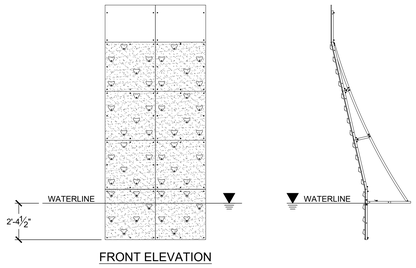


ELEVATION

4 AQ1.2 **SPRAYLINK JET**
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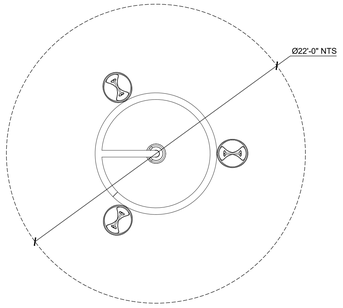


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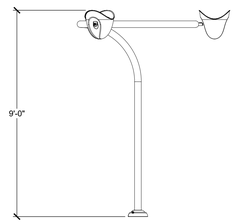


FRONT ELEVATION

1 AQ1.2 **CLIMBING WALL**
SCALE: 1/4" = 1'-0"

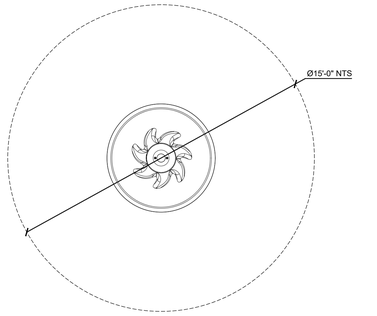


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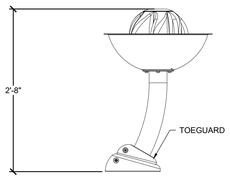


ELEVATION

11 AQ1.2 **ASTRA NO2**
SCALE: 3/8" = 1'-0"

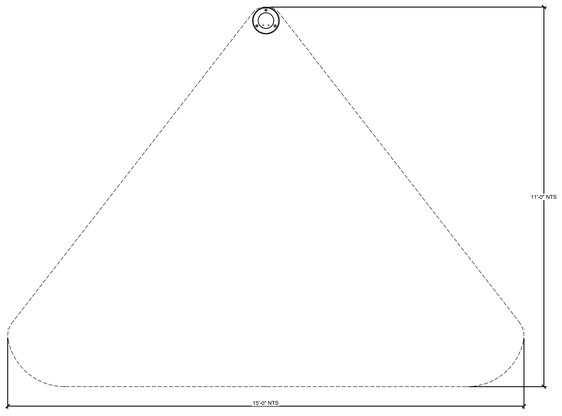


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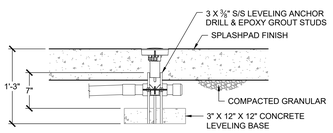


ELEVATION

8 AQ1.2 **BOBBLE NO1**
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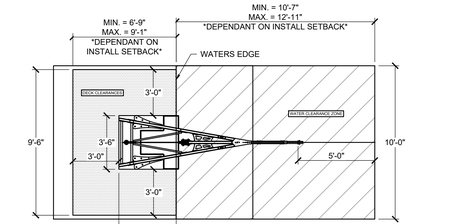


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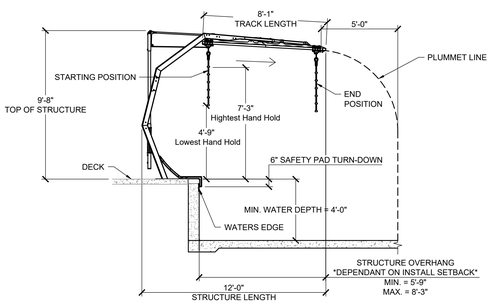


ELEVATION

5 AQ1.2 **SPRAYLINK SPLIT**
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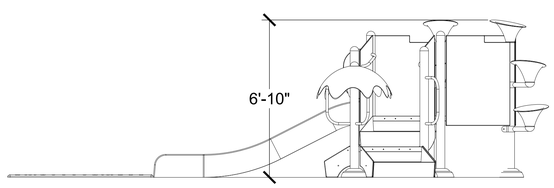


PLAN

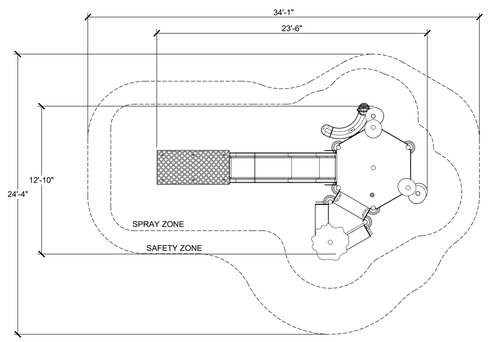


SIDE ELEVATION

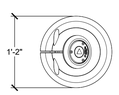
2 AQ1.2 **AQUA ZIPN'**
SCALE: 1/4" = 1'-0"



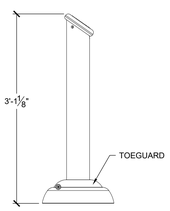
12 AQ1.2 **L2 AQUATIC PLAY UNIT ELEVATION**
SCALE: 3/8" = 1'-0"



9 AQ1.2 **L2 AQUATIC PLAY UNIT PLAN**
SCALE: 3/8" = 1'-0"

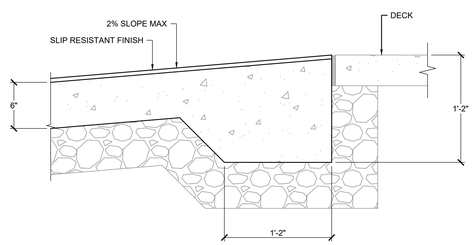


PLAN



ELEVATION

6 AQ1.2 **ACTIVATOR NO5**
SCALE: 1" = 1'-0"



3 AQ1.2 **SPLASHPAD SECTION**
SCALE: 1 1/2" = 1'-0"

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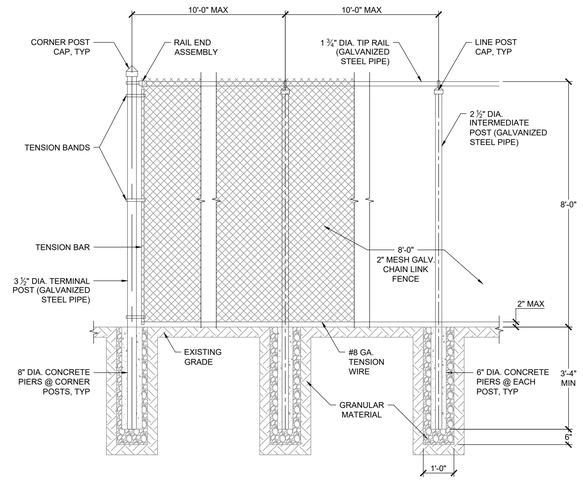
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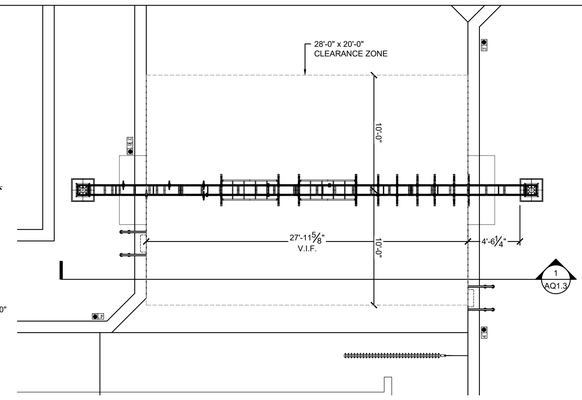
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AQUATIC DESIGN DETAILS

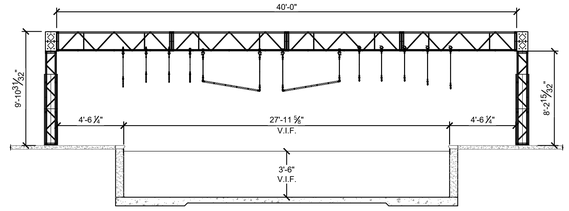
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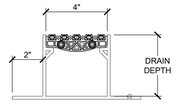
3 AQ1.3 FENCE DETAIL
SCALE: N.T.S.



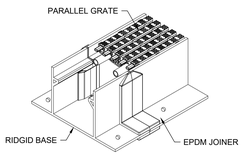
1 AQ1.3 NINJACROSS PLAN
SCALE: 3/16" = 1'-0"



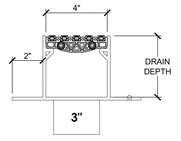
2 AQ1.3 NINJACROSS ELEVATION
SCALE: 3/16" = 1'-0"



DRAIN SECTION



DRAIN ISOMETRIC



DROPOUT SECTION

3 AQ1.3 DECK DRAIN
SCALE: 3" = 1'-0"

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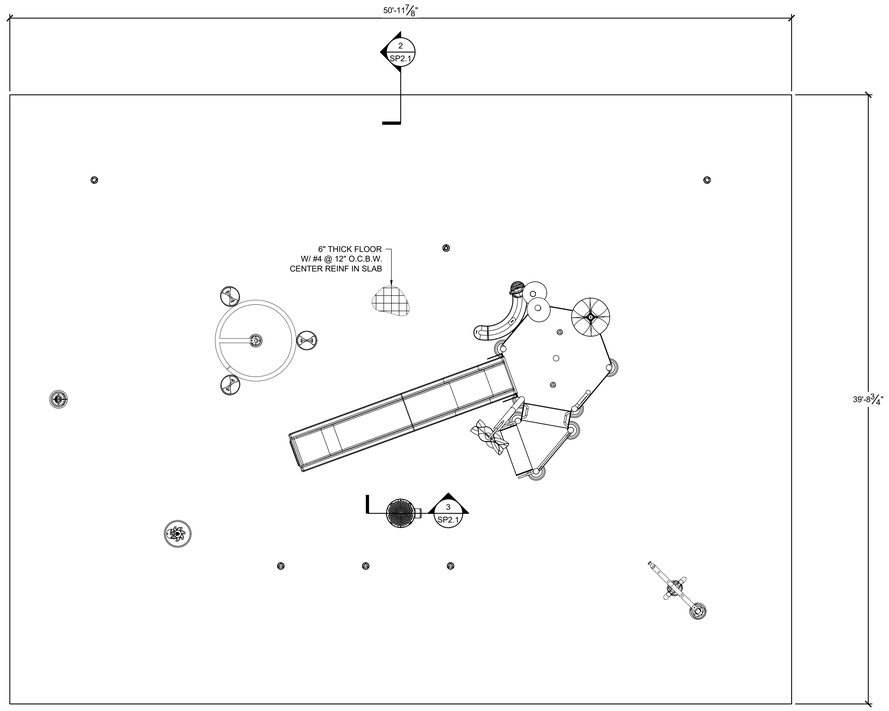
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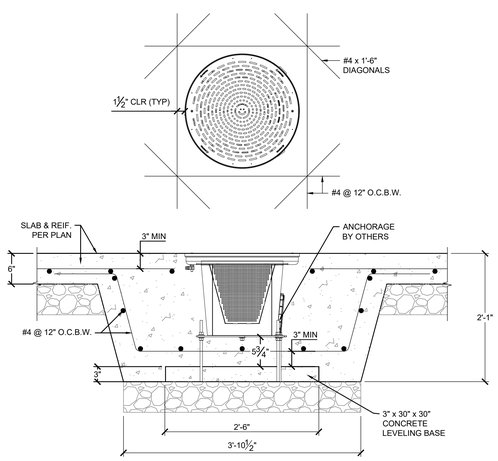
AQUATIC DESIGN DETAILS

SHEET: AQ1.3

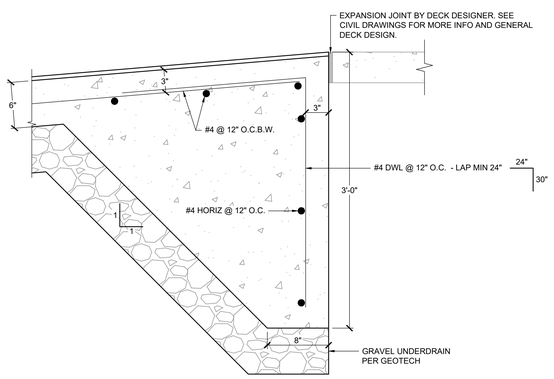
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1 SP2.1 SPLASHPAD STRUCTURAL PLAN
SCALE: 1/4" = 1'-0"



3 SP2.1 SPLASHPAD MAIN DRAIN
SCALE: 1" = 1'-0"



2 SP2.1 SPLASHPAD SECTION
SCALE: 1 1/2" = 1'-0"

STRUCTURAL GENERAL NOTES:

1. THE SPLASHPAD AND BALANCE TANK SHALL BE EXCAVATED INTO FIRM SOIL SUITABLE TO SUPPORT THE SPLASHPAD AND BALANCE TANK AS DETERMINED BY THE PROJECT GEOTECHNICAL ENGINEER.
2. ALL PLAN DIMENSIONS ARE TO SPLASHPAD AND BALANCE TANK FINISH AND SHALL BE VERIFIED PRIOR TO START OF WORK IN ACCORDANCE WITH ARCHITECT DRAWINGS.
3. ANY CHANGES OR UNCLEAR PORTIONS OF THIS PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING.
4. ALL APPLICABLE STATE AND LOCAL LAWS AND CODES SHALL BE FOLLOWED.
5. ANY CONDITION NOT SPECIFICALLY COVERED IN THIS PLAN OR UNUSUAL CONDITIONS ENCOUNTERED DURING EXCAVATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING.
6. ALL SITE GRADING SHALL BE PERFORMED IN CONFORMANCE WITH THE PROJECT SOILS REPORT. SOILS BELOW EXTERIOR FLAT WORK SHALL BE PREPARED IN ACCORDANCE WITH PROJECT SOILS REPORT.
7. FOR AREAS WHERE A RAMP HAS BEEN EXCAVATED AND BACKFILL IS NOT COMPACTED TO A MIN. 90% MAXIMUM DRY DENSITY OF THE ASTM D1557 COMPACTION TEST, REINFORCEMENT SHALL BE SPACED NO LESS THAN 6 INCH CENTERS EACH WAY. THE EXTRA HORIZONTAL REINFORCEMENT SHALL EXTEND 3 FEET PAST THE EDGE OF THE RAMP EXCAVATION ON EITHER SIDE. SHOTCRETE COVER OVER THE REINFORCEMENT ON THE OUTSIDE OF THE SPLASHPAD AND BALANCE TANK SHALL BE INCREASED FROM 3 TO 4 INCHES.
8. A 12" MINIMUM RADIUS SHALL BE USED FOR SPLASHPAD AND BALANCE TANK WALL TO FLOOR TRANSITIONS.
9. EXPANSIVE SOILS SHALL BE MAINTAINED AT AN ELEVATED MOISTURE CONTENT DURING CONSTRUCTION AND IMMEDIATELY PRIOR TO SHOTCRETE/CONCRETE PLACEMENT.

DESIGN BASIS:

1. 2018 INTERNATIONAL BUILDING CODE (IBC)

DESIGN PARAMETERS:

1. LATERAL EARTH PRESSURE: 100 PCF (BALANCE TANK, ASSUMED)
2. ALLOWABLE BEARING CAPACITY: 1,500 PSF (ASSUMED)
3. SEISMIC: S_{DS} = 0.088g S_{D1} = 0.082g

MATERIALS:

1. CONCRETE: THE SPECIFIED CONCRETE IS FOR USE IN THE SPLASHPAD AND BALANCE TANK FLOORS, SURGE TANK ROOF AND FLOOR.
   - A. NORMAL WEIGHT CONCRETE SHALL BE MIXED AND PROPORTIONED IN ACCORDANCE WITH ACI 301. CEMENT TO AGGREGATE, IN DRY WEIGHT, SHALL NOT BE LESS THAN ONE TO FIVE.
   - B. MINIMUM COMPRESSIVE STRENGTH, f'_c, SHALL BE 4,500 PSI @ 28 DAYS
   - C. SLUMP: 3" ± 1"
   - D. AGGREGATE: 1 INCH MAX
   - E. CEMENT CONTENT: 600 LBS/YDS MIN.
   - F. W/C RATIO: 0.45 MAX
   - G. TYPE V CEMENT SHALL BE USED
   - H. SHRINKAGE AT 28 DAYS (PER ASTM C-157) SHALL NOT EXCEED 0.055% FOR DRY CURING.
   - I. CONCRETE SHALL BE PLACED ON OR AGAINST FIRM UNDISTURBED SOIL.
   - J. CEMENT USED SHALL BE ASTM C150, TYPE V CEMENT. FLY ASH MAY BE USED PROVIDED THE FLY ASH CONTENT DOES NOT EXCEED 15% OF THE CEMENTITIOUS MATERIAL CONTENT. FLY ASH SHALL BE ASTM C618, CLASS C OR F.
2. REINFORCEMENT:
   - B. USE ACI 318 AND IBC SECTION 1908 AS GUIDELINE.
   - C. REINFORCEMENT SHALL BE ASTM- A615 GRADE 60.
   - D. LAP SPLICES SHALL BE MINIMUM OF 48 BAR DIAMETERS FOR #6 BAR AND SMALLER AND 60 BAR DIAMETERS FOR #7 BAR AND LARGER.
   - E. NON-CONTACT LAP SPLICING SHALL BE UTILIZED IN ACCORDANCE WITH IBC FOR SHOTCRETE CONSTRUCTION. MAINTAIN MINIMUM 2" CLEAR SPACING BETWEEN REINFORCEMENT.
   - F. 3" MIN COVER FOR REINFORCEMENT TO SOIL.
   - G. UP TO 2 INCH DIAMETER PIPES MAY BE PLACED IN THE LOWER OUTSIDE CORNER OF THE BOND BEAM. A 1.5 INCH CLEARANCE SHALL BE MAINTAINED BETWEEN PIPING AND ANY PARALLEL REINFORCEMENT. IF METAL PIPING IS USED AND IS PLACED IN SHOTCRETE, IT SHALL BE WRAPPED IN VISQUEEN OR HEAVY BROWN PAPER, EXCEPT WHERE IT PASSES PERPENDICULARLY THROUGH THE SHOTCRETE.
   - H. DECK DOWELS BETWEEN THE BOND BEAM AND ADJACENT DECKING SHALL NOT BE USED.
   - I. CONTRACTOR SHALL PROVIDE +2% ALLOWANCE FOR REINFORCING STEEL TO BE USED AT THE DISCRETION OF THE ENGINEER.
3. GRAVEL UNDERDRAIN:
   - A. PER THE PROJECT GEOTECHNICAL ENGINEER, 6" GRAVEL UNDERDRAIN SHALL BE INSTALLED BELOW THE SPLASHPAD AND BALANCE TANK FLOOR. GRAVEL SHALL CONSIST OF CALTRANS CLASS II PERMEABLE MATERIAL. THE BASE OF THE DRAINAGE LAYER SHALL BE SLOPED AT LEAST 2 PERCENT TOWARDS A LOW POINT NEAR THE CENTER OF THE EXCAVATION, WHICH SHALL CONTAIN A SHALLOW TRENCH FOR A SUBDRAIN. AN IMPERVIOUS MEMBRANE SHOULD BE PROVIDED BELOW THE BOTTOM OF THE PERMEABLE GRAVEL.
   - B. PER THE PROJECT GEOTECHNICAL ENGINEER, 4" DIAMETER PERFORATED SDR 35 OR EQUIVALENT. PIPE SHALL BE INSTALLED IN THE GRAVEL AT THE BASE OF THE SUBDRAIN TRENCH AND SHALL SLOPE AT 1% MIN. SLOPE TO AN APPROPRIATE DISCHARGE POINT THAT CAN BE PERIODICALLY OBSERVED FOR LEAKAGE. PIPE SHOULD BE PLACED WITH PERFORATIONS DOWN WITH ALL JOINTS GLUED. PIPE SHALL BE SOLID PAST THE EXTENTS OF THE GRAVEL BLANKET.
   - C. A RELIEF VALVE SHOULD BE INSTALLED AT THE BOTTOM OF THE SPLASHPAD AND BALANCE TANK TO REDUCE THE RISK OF HYDROSTATIC UPLIFT OF THE SPLASHPAD AND BALANCE TANK WHEN EMPTY PER THE PROJECT SOILS ENGINEER.
4. BOND BREAK:
   - A. BOND BREAK SHALL CONSIST OF 10 MIL SHEET VINYL OR 20 LB ROOFING FELT.

CRACK REPAIR:

1. SHRINKAGE CRACK TOLERANCE: 0.02". CRACKS TO BE REPAIRED SHALL BE V-NOTCHED TO A MINIMUM DEPTH OF 3/4" AND FILLED WITH PATCHING MORTAR PRIOR TO PLASTER.

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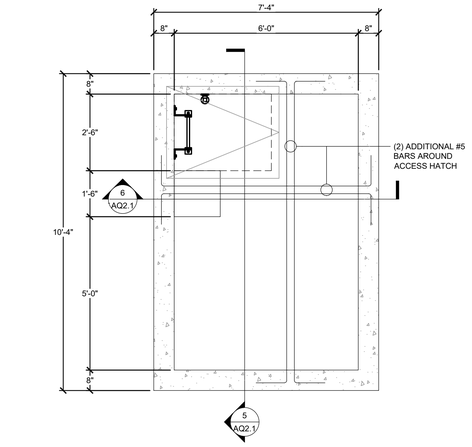
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SPLASHPAD
STRUCTURAL PLAN
AND DETAILS

SHEET: AQ2.0

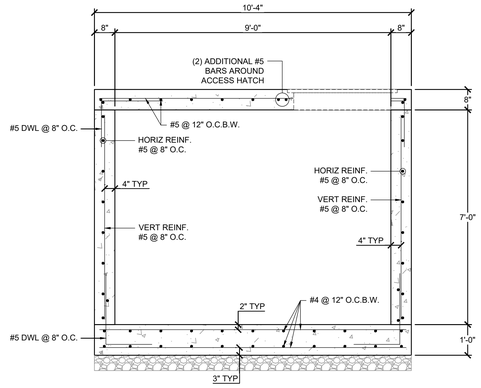
CASE Engineering Inc.
796 Merus Court | T 636.349.1600
St. Louis, MO 63026 | F 636.349.1730
CERTIFICATE OF AUTHORITY NO. CA4051

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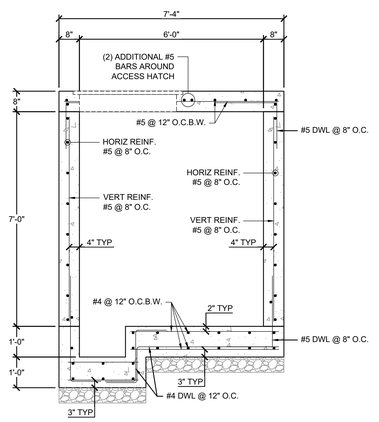
4 AQ2.1 SPLASHPAD BALANCE TANK STRUCTUAL PLAN

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



5 AQ2.1 SPLASHPAD BALANCE TANK SECTION

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



6 AQ2.1 SPLASHPAD BALANCE TANK SECTION

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

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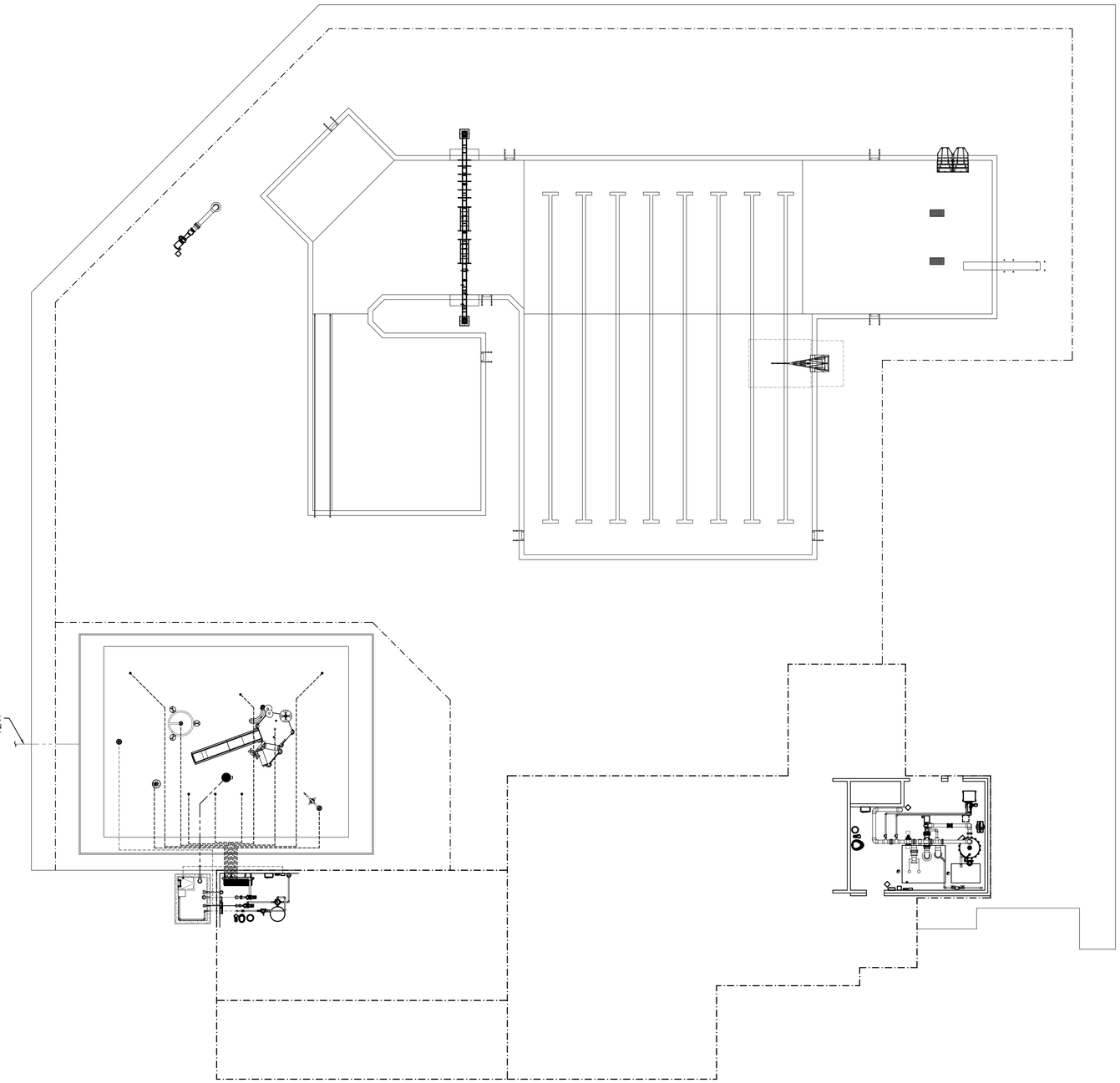
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BALANCE TANK STRUCTURAL PLAN & SECTIONS

SHEET: AQ2.1

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1 AQ3.0 OVERALL PIPING PLAN
SCALE: 3/32" = 1'-0"

SITE PIPING NOTES:

1. OVERALL PIPING IS SHOWN IN DIAGRAMMATIC FORM TO INDICATE WORK TO BE DONE RATHER THAN TO SHOW EXACT ROUTING & LOCATION. MAKE USE OF ALL DATA IN CONTRACT DOCUMENTS, VERIFY AGAINST DEVELOPED FIELD CONDITIONS, & INSTALL WORK IN AN ORDERLY ARRANGEMENT IN A MANNER TO OVERCOME STRUCTURAL, MECHANICAL & ELECTRICAL INTERFERENCE.
2. TO BE USED IN CONJUNCTION WITH INDIVIDUAL POOL PIPING PLANS. FOR INFORMATION NOT SHOWN REFER TO INDIVIDUAL POOL PIPING PLANS.
3. ALL SUBGRADE WORK TO BE COMPLETED PRIOR TO TRENCHING AND INSTALLATION OF BELOW GRADE POOL PIPING.
4. POOL PIPING PLACED IN TRENCHES SHALL NOT BE STACKED ABOVE/BELOW PARALLEL PIPES.

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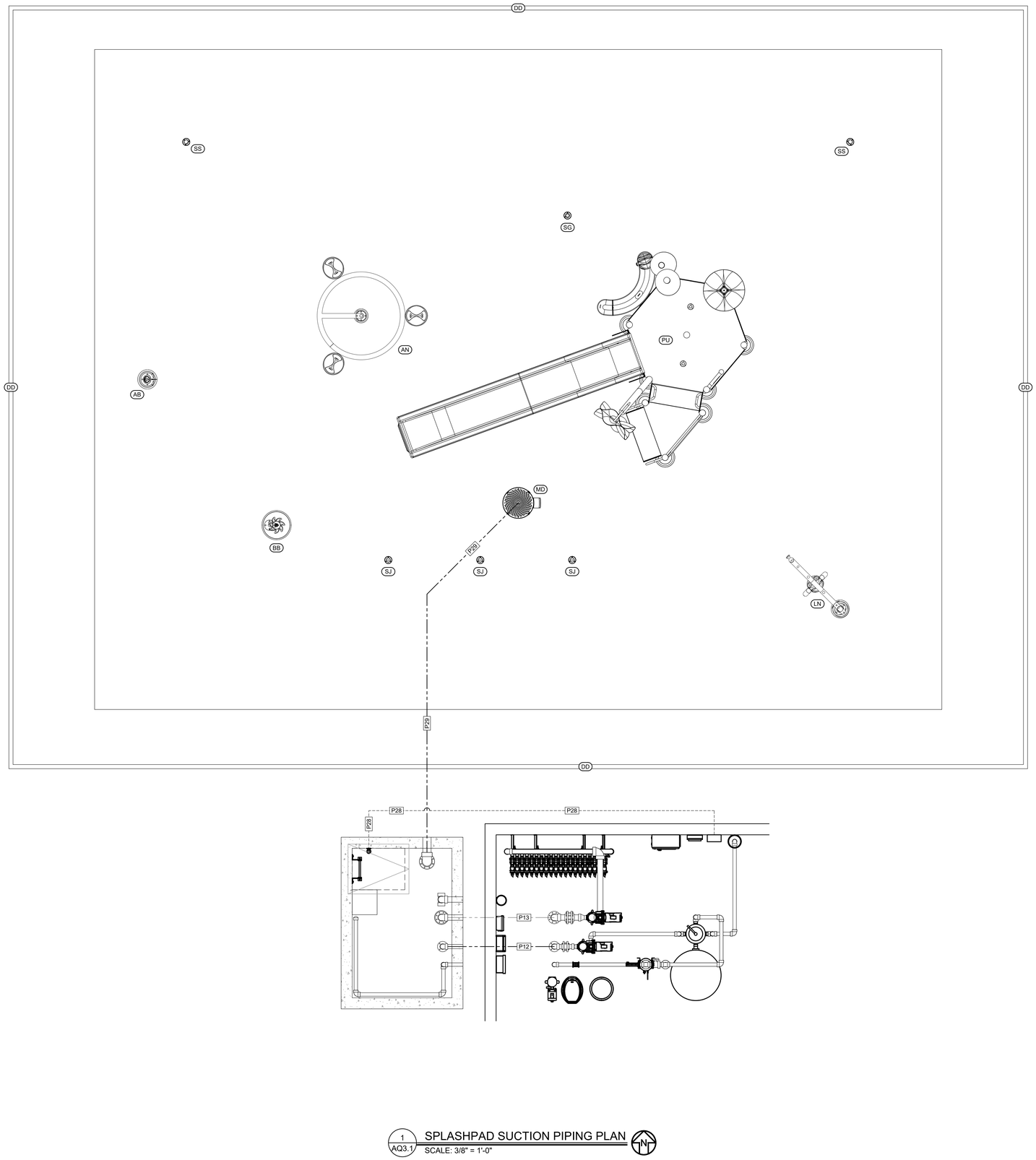
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OVERALL PIPING PLAN

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1 AQ3.1 SPLASHPAD SUCTION PIPING PLAN

SCALE: 3/8" = 1'-0"

SPA PIPING NOTES:

1. ALL PIPING SHALL BE NSF APPROVED (ANSI/NSF14), SCHEDULE 40 PVC (UNLESS OTHERWISE NOTED).
2. ALL DRAIN FITTINGS TO CARRY 100% OF RECIRCULATION RATE NOT TO EXCEED MAX RATED FLOW RATE FOR SELECTED DRAIN FITTING WHEN ONE OUTLET FITTING IS COVERED.
3. MAIN DRAIN PIPING SHALL CARRY 100% OF RECIRCULATION RATE AT A VELOCITY NOT TO EXCEED 6' PER SECOND.
4. ALL PIPING DESIGNED FOR 6' PER SECOND MAXIMUM SUCTION, 8' PER SECOND MAXIMUM PRESSURE, AND 3' PER SECOND MAXIMUM GRAVITY.
5. VERIFY PIPE SIZES WITH THE EQUIPMENT ROOM PLAN AND SCHEMATIC.
6. SPA CONTRACTOR SHALL COORDINATE ALL WORK WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS.
7. OVERALL PIPING IS SHOWN IN DIAGRAMMATIC FORM TO INDICATE WORK TO BE DONE RATHER THAN TO SHOW EXACT ROUTING & LOCATION. MAKE USE OF ALL DATA IN CONTRACT DOCUMENTS. VERIFY AGAINST DEVELOPED FIELD CONDITIONS, & INSTALL WORK IN AN ORDERLY ARRANGEMENT IN A MANNER TO OVERCOME STRUCTURAL, MECHANICAL & ELECTRICAL INTERFERENCE.

SPLASHPAD RECIRCULATION EQUIPMENT SCHEDULE

CALL OUT	EQUIPMENT	MODEL/DESCRIPTION
MD	MAIN DRAIN	PLAYSAFE DRAIN NO4, VOR-1004, 22-IN DIAMETER COVER, 6-IN MAX PIPE CONNECTION, 240-GPM FLOW
AF	AUTOFILL	JANDY-LEVELOR K-1100 WATER FILL CONTROL PANEL WITH STATIC PIPE AND PROBE SYSTEM LOCATED IN BALANCE TANK. ASCO SLOW CLOSING SOLENOID VALVE ON POTABLE FILL PIPING, CONNECT TO FILL FILL FUNNEL WITH 6-INCH AIR GAP.
BT	BALANCE TANK ACCESS HATCH AND LADDER RUNGS	REGAL PLASTICS HDPE BOAT BOARD, 36 IN X 30 IN X 3/4 IN THICK TEXTURED, SLIP RESISTANT. MA INDUSTRIES GRADE 60 STEEL ENCASED COPOLYMER PLASTIC SURGE TANK LADDER RUNGS.
AB	VORTEX ACTIVATOR NO5	VOR-0623, QTY 1
SJ	VORTEX SPRAYLINK JET NO2	VOR-3001, 6-GPM EACH, QTY 3
SS	VORTEX SPRAYLINK SPLIT	VOR-3003, 3-GPM EACH, QTY 2
SG	VORTEX SPRAYLINK GEYSER	VOR-3005, 6-GPM EACH, QTY 1
BB	VORTEX BOBBLE NO1	VOR-7232, 9-GPM EACH, QTY 1
LN	VORTEX LUNA NO3	VOR-7234, 8-GPM EACH, QTY 1
AN	VORTEX ASTRA NO2	VOR-7698, 10-GPM, QTY 1
PU	VORTEX L2 AQUATIC PLAY UNIT	VOR-37858, 162-GPM, QTY 1

ALL EQUIPMENT NOTED ARE BASIS OF DESIGN & DESIGNATE MINIMUM PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS MAY BE USED PROVIDED THEY ARE SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL.

PIPE SCHEDULE

CALLOUT	DESCRIPTION
P1	EXISTING 12-IN FROM POOL MAIN DRAINS TO SURGE TANK
P2	10-IN FROM SURGE TANK TO POOL RECIRC PUMP
P3	EXISTING 12-IN FROM POOL GUTTER DROPOUTS TO SURGE TANK
P4	EXISTING 3-IN FILL LINE TO SURGE TANK
P5	8-IN FROM POOL RECIRC PUMP TO POOL FILTER
P6	4-IN PRECOAT LINE FROM P7 TO POOL RECIRC PUMP
P7	8-FROM POOL FILTER TO POOL GUTTER RETURN NOZZLES
P8	2.5-IN FROM P7 TO POOL HEATER
P9	2.5-IN FROM POOL HEATER TO P7
P10	4-IN FROM POOL FILTER TO BACKWASH TANK
P11	2.5-IN FROM SPLASHPAD FILTER TO BALANCE TANK
P12	3-IN FROM BALANCE TANK TO SPLASHPAD RECIRC PUMP
P13	4-IN FROM BALANCE TANK TO SPLASHPAD FEATURE PUMP
P14	2.5-IN FROM SPLASHPAD RECIRC PUMP TO SPLASHPAD FILTER
P15	2.5-IN FROM SPLASHPAD FILTER TO BACKWASH FUNNEL
P16	3-IN FROM SPLASHPAD FEATURE PUMP TO FEATURE MANIFOLD
P17	1-IN FROM FEATURE MANIFOLD TO BOBBLE NO1
P18	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK SPLIT
P19	1-IN FROM FEATURE MANIFOLD TO ASTRA NO2
P20	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK JET NO2
P21	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK JET NO2
P22	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK JET NO2
P23	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK GEYSER
P24	1-IN FROM FEATURE MANIFOLD TO L2 AQUATIC PLAY UNIT
P25	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK SPLIT
P26	1-IN FROM FEATURE MANIFOLD TO LUNA NO3
P27	1-IN CONDUIT FROM SPLASHPAD CONTROLLER TO ACTIVATOR NO5
P28	1-IN CONDUIT FROM BALANCE TANK TO SPLASHPAD WATER LEVEL CONTROLLER
P29	6-IN FROM SPLASHPAD MAIN DRAIN TO BALANCE TANK
P30	4-IN FROM SPLASHPAD FUNNEL TO BALANCE TANK
P31	8-IN FROM EXISTING SLIDE TANK TO SLIDE PUMP
P32	8-IN FROM SLIDE PUMP TO WATERSLIDE

MECHANICAL SCHEDULE

CALLOUT	EQUIPMENT	MODEL/DESCRIPTION
UH1	ELECTRIC UNIT HEATER	QMARK MUH0581, 208-V/3-PHASE, 17-BTU/HR, 350-CFM
UH2	ELECTRIC UNIT HEATER	QMARK MUH0581, 208-V/3-PHASE, 17-BTU/HR, 350-CFM
EF	EXHAUST FAN	PLASTEC P20SS4P033, 115/208-230/1-PHASE, 910-CFM MAX FLOW. INSTALL ON ROOF AT EXISTING FAN.
DD	DECK DRAIN	VODALAND EASY ONE - 3-INCH WIDE CHANNEL DRAIN WITH IVORY COLOR GRATE.

ALL EQUIPMENT NOTED ARE BASIS OF DESIGN & DESIGNATE MINIMUM PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS MAY BE USED PROVIDED THEY ARE SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL.

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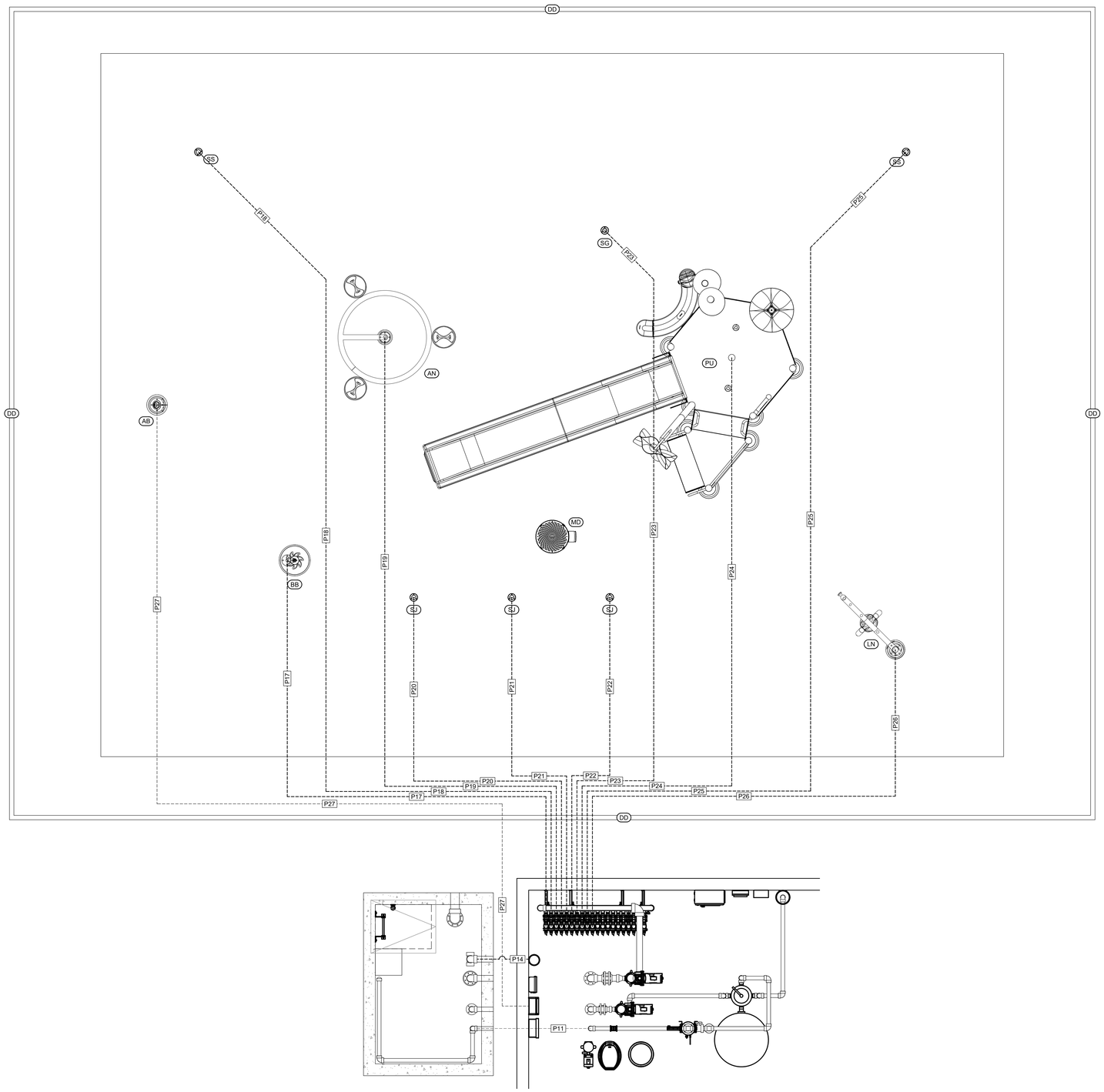
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SPLASHPAD SUCTION PIPING PLAN

SHEET: AQ3.1

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1 AQ3.2 SPLASHPAD RETURN PIPING PLAN
SCALE: 3/8" = 1'-0"

SPA PIPING NOTES:

1. ALL PIPING SHALL BE NSF APPROVED (ANSI/NSF14), SCHEDULE 40 PVC (UNLESS OTHERWISE NOTED).
2. ALL DRAIN FITTINGS TO CARRY 100% OF RECIRCULATION RATE NOT TO EXCEED MAX RATED FLOW RATE FOR SELECTED DRAIN FITTING WHEN ONE OUTLET FITTING IS COVERED.
3. MAIN DRAIN PIPING SHALL CARRY 100% OF RECIRCULATION RATE AT A VELOCITY NOT TO EXCEED 6' PER SECOND.
4. ALL PIPING DESIGNED FOR 6' PER SECOND MAXIMUM SUCTION, 8' PER SECOND MAXIMUM PRESSURE, AND 3' PER SECOND MAXIMUM GRAVITY.
5. VERIFY PIPE SIZES WITH THE EQUIPMENT ROOM PLAN AND SCHEMATIC.
6. SPA CONTRACTOR SHALL COORDINATE ALL WORK WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS.
7. OVERALL PIPING IS SHOWN IN DIAGRAMMATIC FORM TO INDICATE WORK TO BE DONE RATHER THAN TO SHOW EXACT ROUTING & LOCATION. MAKE USE OF ALL DATA IN CONTRACT DOCUMENTS. VERIFY AGAINST DEVELOPED FIELD CONDITIONS, & INSTALL WORK IN AN ORDERLY ARRANGEMENT IN A MANNER TO OVERCOME STRUCTURAL, MECHANICAL & ELECTRICAL INTERFERENCE.

SPLASHPAD RECIRCULATION EQUIPMENT SCHEDULE

CALL OUT	EQUIPMENT	MODEL/DESCRIPTION
MD	MAIN DRAIN	PLAYSAFE DRAIN NO4, VOR-1004, 22-IN DIAMETER COVER, 6-IN MAX PIPE CONNECTION, 240-GPM FLOW
AF	AUTOFILL	JANDY-LEVELOR K-1100 WATER FILL CONTROL PANEL WITH STATIC PIPE AND PROBE SYSTEM LOCATED IN BALANCE TANK. ASCO SLOW CLOSING SOLENOID VALVE ON POTABLE FILL PIPING, CONNECT TO FILL FILL FUNNEL WITH 6-INCH AIR GAP.
BT	BALANCE TANK ACCESS HATCH AND LADDER RUNGS	REGAL PLASTICS HDPE BOAT BOARD, 36 IN X 30 IN X 3/4 IN THICK TEXTURED, SLIP RESISTANT. MA INDUSTRIES GRADE 60 STEEL ENCASED COPOLYMER PLASTIC SURGE TANK LADDER RUNGS.
AB	VORTEX ACTIVATOR NO5	VOR-0623, QTY 1
SJ	VORTEX SPRAYLINK JET NO2	VOR-3001, 15-GPM EACH, QTY 3
SS	VORTEX SPRAYLINK SPLIT	VOR-3003, 5-GPM EACH, QTY 2
SG	VORTEX SPRAYLINK GEYSER	VOR-3005, 5-GPM EACH, QTY 1
BB	VORTEX BOBBLE NO1	VOR-7232, 6-GPM EACH, QTY 1
LN	VORTEX LUNA NO3	VOR-7234, 6.5-GPM EACH, QTY 1
AN	VORTEX ASTRA NO2	VOR-7698, 7.5-GPM, QTY 1
PU	VORTEX L2 AQUATIC PLAY UNIT	VOR-37858, 162-GPM, QTY 1
ALL EQUIPMENT NOTED ARE BASIS OF DESIGN & DESIGNATE MINIMUM PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS MAY BE USED PROVIDED THEY ARE SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL.		

PIPE SCHEDULE

CALLOUT	DESCRIPTION
P1	EXISTING 12-IN FROM POOL MAIN DRAINS TO SURGE TANK
P2	10-IN FROM SURGE TANK TO POOL RECIRC PUMP
P3	EXISTING 12-IN FROM POOL GUTTER DROPOUTS TO SURGE TANK
P4	EXISTING 3-IN FILL LINE TO SURGE TANK
P5	8-IN FROM POOL RECIRC PUMP TO POOL FILTER
P6	4-IN PRECOAT LINE FROM P7 TO POOL RECIRC PUMP
P7	8-FROM POOL FILTER TO POOL GUTTER RETURN NOZZLES
P8	2.5-IN FROM P7 TO POOL HEATER
P9	2.5-IN FROM POOL HEATER TO P7
P10	4-IN FROM POOL FILTER TO BACKWASH TANK
P11	2.5-IN FROM SPLASHPAD FILTER TO BALANCE TANK
P12	3-IN FROM BALANCE TANK TO SPLASHPAD RECIRC PUMP
P13	4-IN FROM BALANCE TANK TO SPLASHPAD FEATURE PUMP
P14	2.5-IN FROM SPLASHPAD RECIRC PUMP TO SPLASHPAD FILTER
P15	2.5-IN FROM SPLASHPAD FILTER TO BACKWASH FUNNEL
P16	3-IN FROM SPLASHPAD FEATURE PUMP TO FEATURE MANIFOLD
P17	1-IN FROM FEATURE MANIFOLD TO BOBBLE NO1
P18	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK SPLIT
P19	1-IN FROM FEATURE MANIFOLD TO ASTRA NO2
P20	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK JET NO2
P21	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK JET NO2
P22	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK JET NO2
P23	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK GEYSER
P24	1-IN FROM FEATURE MANIFOLD TO L2 AQUATIC PLAY UNIT
P25	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK SPLIT
P26	1-IN FROM FEATURE MANIFOLD TO LUNA NO3
P27	1-IN CONDUIT FROM SPLASHPAD CONTROLLER TO ACTIVATOR NO5
P28	1-IN CONDUIT FROM BALANCE TANK TO SPLASHPAD WATER LEVEL CONTROLLER
P29	6-IN FROM SPLASHPAD MAIN DRAIN TO BALANCE TANK
P30	4-IN FROM SPLASHPAD FUNNEL TO BALANCE TANK
P31	8-IN FROM EXISTING SLIDE TANK TO SLIDE PUMP
P32	8-IN FROM SLIDE PUMP TO WATERSLIDE

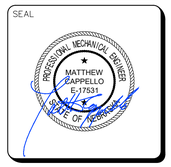
MECHANICAL SCHEDULE

CALLOUT	EQUIPMENT	MODEL/DESCRIPTION
UH1	ELECTRIC UNIT HEATER	QMARK MUH0581, 208-V/3-PHASE, 17-BTU/HR, 350-CFM
UH2	ELECTRIC UNIT HEATER	QMARK MUH0581, 208-V/3-PHASE, 17-BTU/HR, 350-CFM
EF	EXHAUST FAN	PLASTEC P20SS4P033, 115/208-230/1-PHASE, 910-CFM MAX FLOW. INSTALL ON ROOF AT EXISTING FAN.
DD	DECK DRAIN	VODALAND EASY ONE - 3-INCH WIDE CHANNEL DRAIN WITH IVORY COLOR GRATE.
ALL EQUIPMENT NOTED ARE BASIS OF DESIGN & DESIGNATE MINIMUM PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS MAY BE USED PROVIDED THEY ARE SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL.		

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AUBURN, NE 68305

SEAL



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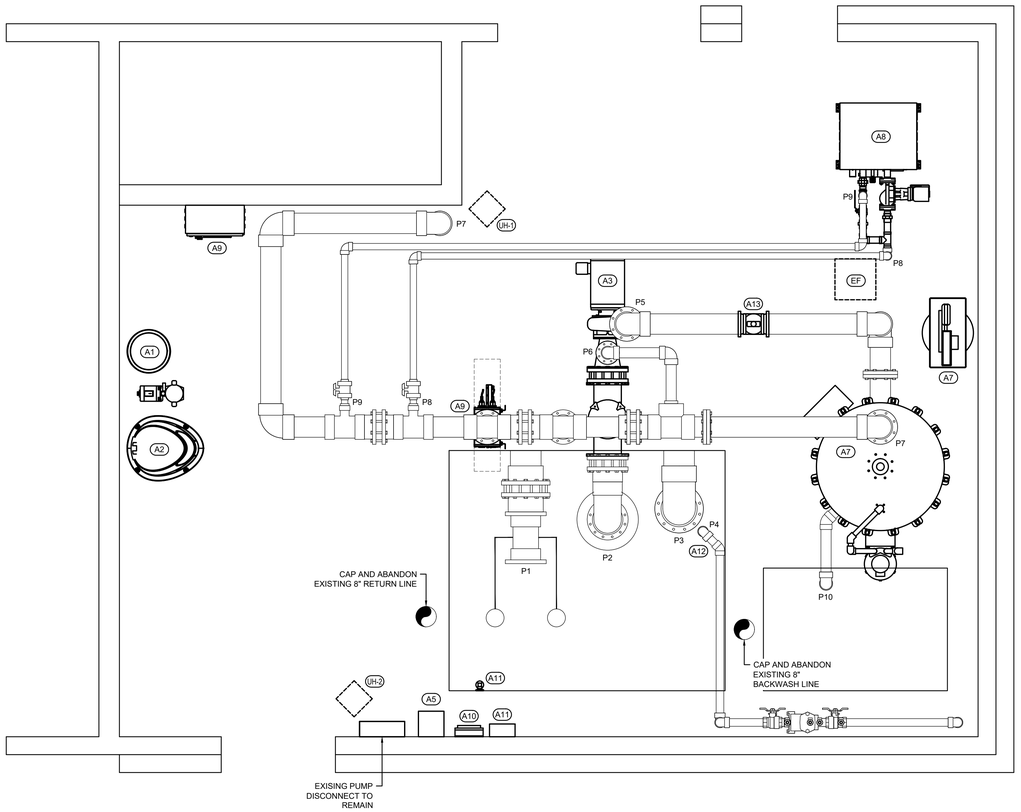
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REV	DATE:	COMMENT:

SPLASHPAD RETURN PIPING PLAN

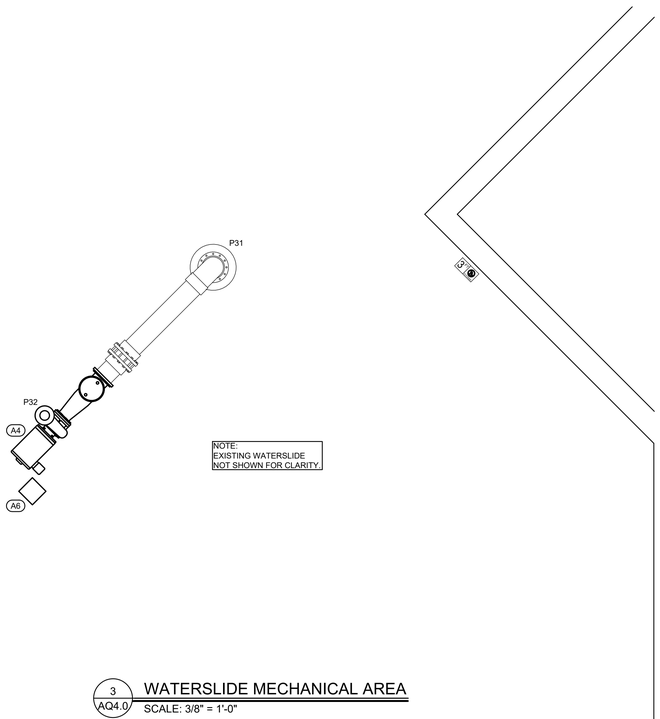
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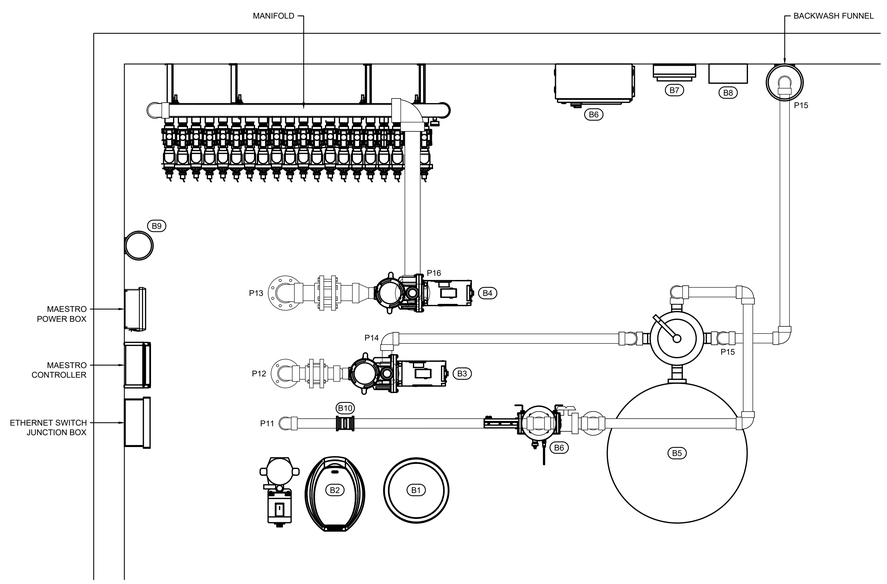
1 AQ4.0 POOL MECHANICAL ROOM PLAN

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



3 AQ4.0 WATERSLIDE MECHANICAL AREA

SCALE: 3/8" = 1'-0"



2 AQ4.0 SPLASHPAD MECHANICAL ROOM PLAN

SCALE: 3/4" = 1'-0"

PIPE SCHEDULE

CALLOUT	DESCRIPTION
P1	EXISTING 12-IN FROM POOL MAIN DRAINS TO SURGE TANK
P2	10-IN FROM SURGE TANK TO POOL RECIRC PUMP
P3	EXISTING 12-IN FROM POOL GUTTER DROPOUTS TO SURGE TANK
P4	EXISTING 3-IN FILL LINE TO SURGE TANK
P5	8-IN FROM POOL RECIRC PUMP TO POOL FILTER
P6	4-IN PRECOAT LINE FROM P7 TO POOL RECIRC PUMP
P7	8-FROM POOL FILTER TO POOL GUTTER RETURN NOZZLES
P8	2.5-IN FROM P7 TO POOL HEATER
P9	2.5-IN FROM POOL HEATER TO P7
P10	4-IN FROM POOL FILTER TO BACKWASH TANK
P11	2.5-IN FROM SPLASHPAD FILTER TO BALANCE TANK
P12	3-IN FROM BALANCE TANK TO SPLASHPAD RECIRC PUMP
P13	4-IN FROM BALANCE TANK TO SPLASHPAD FEATURE PUMP
P14	2.5-IN FROM SPLASHPAD RECIRC PUMP TO SPLASHPAD FILTER
P15	2.5-IN FROM SPLASHPAD FILTER TO BACKWASH FUNNEL
P16	3-IN FROM SPLASHPAD FEATURE PUMP TO FEATURE MANIFOLD
P17	1-IN FROM FEATURE MANIFOLD TO BOBBLE NO1
P18	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK SPLIT
P19	1-IN FROM FEATURE MANIFOLD TO ASTRA NO2
P20	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK JET NO2
P21	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK JET NO2
P22	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK JET NO2
P23	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK GEYSER
P24	1-IN FROM FEATURE MANIFOLD TO L2 AQUATIC PLAY UNIT
P25	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK SPLIT
P26	1-IN FROM FEATURE MANIFOLD TO LUNA NO3
P27	1-IN CONDUIT FROM SPLASHPAD CONTROLLER TO ACTIVATOR NO5
P28	1-IN CONDUIT FROM BALANCE TANK TO SPLASHPAD WATER LEVEL CONTROLLER
P29	6-IN FROM SPLASHPAD MAIN DRAIN TO BALANCE TANK
P30	4-IN FROM SPLASHPAD FUNNEL TO BALANCE TANK
P31	8-IN FROM EXISTING SLIDE TANK TO SLIDE PUMP
P32	8-IN FROM SLIDE PUMP TO WATERSLIDE

MECHANICAL SCHEDULE

CALLOUT	EQUIPMENT	MODEL/DESCRIPTION
UH1	ELECTRIC UNIT HEATER	QMARK MUH0581, 208-V/3-PHASE, 17-BTU/HR, 350-CFM
UH2	ELECTRIC UNIT HEATER	QMARK MUH0581, 208-V/3-PHASE, 17-BTU/HR, 350-CFM
EF	EXHAUST FAN	PLASTEC P20SS4P033, 115/208-230/1-PHASE, 910-CFM MAX FLOW. INSTALL ON ROOF AT EXISTING FAN.
DD	DECK DRAIN	VODALAND EASY ONE - 3-INCH WIDE CHANNEL DRAIN WITH IVORY COLOR GRATE.
ALL EQUIPMENT NOTED ARE BASIS OF DESIGN & DESIGNATE MINIMUM PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS MAY BE USED PROVIDED THEY ARE SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL.		

EQUIPMENT ROOM NOTES:

1. ALL PIPING TO BE SCHEDULE 80 PVC UNLESS NOTED OTHERWISE.
2. SEE PIPING PLANS TO VERIFY PIPE SIZES AND FOR CONTINUATION OF PIPING. REPORT DISCREPANCIES IMMEDIATELY TO THE ARCHITECT / ENGINEER.
3. POOL CONTRACTOR SHALL IDENTIFY ALL PIPING AND VALVES BY COLOR CODING OR LABELS AND DIRECTION OF FLOW ARROWS IN ACCORDANCE WITH LOCAL HEALTH CODE.
4. PIPING AT HEATER TO BE CPVC UNLESS NOTED OTHERWISE.
5. REDUCER FITTINGS SHALL BE USED WHERE PIPE SIZES CHANGE.
6. NO COMMON PIPING OR FITTING ON THE SUCTION SIDE OF THE PUMP IS TO BE SMALLER THAN THE LARGEST SINGLE ELEMENT CONNECTED. DOWNSIZING AND UPSIZING IS TO BE DONE AT THE THROATS OF THE PUMP PORTS.
7. ALL VALVES SHALL HAVE A MINIMUM PRESSURE RATING OF 125 PSI.
8. ALL TRADES SHALL KEEP SPACE ABOVE THE FILTRATION AND CHEMICAL EQUIPMENT CLEAR FOR SERVICING.
9. HAIR AND LINT STRAINER OPENINGS SHALL BE NO MORE THAN 1/8". THE HAIR AND UNIT STRAINER MUST PROVIDE A FREE FLOW CAPACITY OF AT LEAST FOUR TIMES THE AREA OF THE PUMP SUCTION LINE.
10. FILTRATION AND CHEMICAL EQUIPMENT SHALL BE NATIONAL SANITATION FOUNDATION (NSF) APPROVED.
11. FILTER SHALL BE PROVIDED WITH THE FOLLOWING APPROPRIATELY LOCATED ACCESSORIES: INFLUENT AND EFFLUENT PRESSURE GAUGES, BACKWASH SIGHT GLASS ON WASTED DISCHARGE LINE, FILTER BACKWASH VALVE, AIR RELIEF VALVE AT THE HIGH POINT OF THE FILTER SYSTEM, AND A VALVED TANK DRAIN. RELIEF VALVES SHALL BE INSTALLED.
12. FLOWMETER SHALL BE PROVIDED IN THE INLET RETURN LINE AFTER FILTER AND BEFORE CHEMICAL INJECTION. INSTALL ON A STRAIGHT LENGTH OF PIPE AT A DISTANCE OF AT LEAST 10 PIPE DIAMETERS DOWNSTREAM AND 4 PIPE DIAMETERS UPSTREAM FROM ANY VALVE, ELBOW OR OTHER SOURCE OF TURBULENCE OR PER MANUFACTURER'S SPECIFICATIONS. PROVIDE CHECK VALVE IN RETURN LINE UPSTREAM OF CHEMICAL INJECTION TO PROTECT HEATER, FILTER, PUMP AND OTHER EQUIPMENT.
13. PROVIDE A COMBINATION VACUUM/PRESSURE GAUGE ON THE SUCTION SIDE OF THE CIRCULATION PUMP AND A CHECK VALVE ON THE DISCHARGE SIDE OF THE PUMP.
14. INSTALL INTERLOCK BETWEEN CIRCULATION PUMP(S) AND HEATER(S); FLOW SWITCHES; AND BYPASS LOOPS AS REQUIRED BY HEATER MANUFACTURER.
15. INSTALL AIR COMBUSTION INTAKE AND VENT PIPING PER HEATER MANUFACTURER'S RECOMMENDATIONS.
16. PROVIDE FLOW SWITCH FOR ALL HEATERS AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.
17. ALL PIPING TO BE SUPPORTED AS REQUIRED WITH EITHER HANGERS (ALONG CEILINGS), ANCHORS (ALONG WALLS), OR SUPPORTS (ALONG FLOOR) PER CONTRACTOR. MIN 6'-8" CLEARANCE TO UNDERSIDE OF ANY OVERHEAD PLUMBING LINES.
18. ANY WALL-MOUNTED EQUIPMENT AND CONTROL PANELS SHALL BE MOUNTED A MINIMUM 46" ABOVE FINISHED FLOOR.
19. ALL PUMPS, STRAINERS, AND HEATERS TO BE ANCHORED PER MANUFACTURER'S RECOMMENDATIONS ON A HOUSEKEEPING PAD THAT IS 4" MINIMUM ABOVE THE FINISEHD FLOOR.
20. ALL MECHANICAL ROOM FLOORS SHALL SLOPE A MINIMUM OF ¼" TO ½" TO FLOOR DRAINS.
21. MECHANICAL ROOM FLOOR DRAINS BY OTHERS.
22. HOSE BIBS TO BE INSTALLED FOR HOUSE CLEANING PURPOSES.
23. BACKWASH CATCH BASIN SURFACES SHALL BE WATERPROOFED.
24. THE FOLLOWING INFORMATION SHALL BE LAMINATED AND POSTED IN THE POOL MECHANICAL ROOM: BACKWASH PROCEDURES, POOL FILLING AND DRAINING, VALVE REFERENCE CHART, EQUIPMENT ROOM PLAN, POOL PIPING SCHEMATICS, AND POOL SYSTEMS SCHEMATICS.
25. PIPING SHOWN TO INDICATE WORK TO BE DONE AND SUGGESTED ROUTING RATHER THAN EXACT ROUTING & LOCATION. MAKE USE OF ALL DATA IN CONTRACT DOCUMENTS, VERIFY AGAINST DEVELOPED FIELD CONDITIONS, & INSTALL WORK IN AN ORDERLY ARRANGEMENT IN A MANNER TO OVERCOME STRUCTURAL, MECHANICAL & ELECTRICAL INTERFERENCE.
26. VALVES ON VERTICAL PIPING NOT SHOWN FOR CLARITY, SEE CIRCULATION SCHEMATICS FOR VALVES REQUIRED, LOCATIONS, AND SPECIFICATIONS.

SWIMMING POOL EQUIPMENT

CALLOUT	EQUIPMENT	MODEL/DESCRIPTION
A1	PH BUFFER FEED SYSTEM	PULSAR ACID PLUS FEEDER, 60-LB FEEDER CAPACITY WITH SLOW CLOSING SOLENOID VALVE.
A2	CHLORINATION SYSTEM	PULSAR PRECISION CALCIUM HYPOCHLORITE HIGH CAPACITY EROSION FEEDER, 189-LBS/DAY AVCL. PULSAR BOOSTER PUMP, #79214, 1-HP, 230/115-V, 6.3/12.6-A, 1-PHASE
A3	CIRCULATION PUMP, STRAINER, TEE, & GAUGES	PENTAIR/AURORA 3801-5x6x9.5A, 1,375-GPM @ 65-FT TDH, 1,800-RPM, 30-HP, TEFC, 6-IN SUCTION, 5-IN DISCHARGE, IMPELLER RATED 9.5-IN DIAMETER, 80.97% EFFICIENCY, 12.17-FT NPSHR, 60-HZ, 208-230/460V, 3-PHASE. NEPTUNE BENSON GUARDIAN FIBERGLASS HAIR & LINT STRAINER, 10-IN STRAIGHT WITH FIBERGLASS 10x6x4 PRECOAT TEE AT PUMP DISCHARGE. PUMP FURNISHED WITH FUSION BONDED EPOXY COATING ON WETTED PARTS, SCOTCHKOTE 134 BY FUSECOAT. SUPER PRO 2-IN PRESSURE GAUGE, 0-60 PSI, #SPG-06-1005 / 83060BU AND COMPOUND GAUGE, 0-30 IN HG, # SPG-06-1008/ 86030BU WITH SNUBBERS, FILTERS AND BRASS VALVES AT EACH GAUGE.
A4	SLIDE PUMP, STRAINER, & GAUGES	PENTAIR/AURORA 3801-4x5x9.5, 800-GPM @ 45-FT TDH, 1,800-RPM, 15-HP, TEFC, 5-IN SUCTION, 4-IN DISCHARGE, IMPELLER RATED 9.5-IN DIAMETER, 78% EFFICIENCY, 11.84-FT NPSHR, 60-HZ, 208-230/460V, 3-PHASE. NEPTUNE BENSON GUARDIAN FIBERGLASS HAIR & LINT STRAINER, 8x5-IN ECCENTRIC REDUCER. PUMP FURNISHED WITH FUSION BONDED EPOXY COATING ON WETTED PARTS, SCOTCHKOTE 134 BY FUSECOAT. SUPER PRO 2-IN PRESSURE GAUGE, 0-60 PSI, #SPG-06-1005 / 83060BU AND COMPOUND GAUGE, 0-30 IN HG, # SPG-06-1008/ 86030BU WITH SNUBBERS, FILTERS AND BRASS VALVES AT EACH GAUGE.
A5	CIRCULATION PUMP VARIABLE FREQUENCY DRIVE	ABB ACS580-0P-044A-4+B056, 30-HP, 480-V
A6	SLIDE PUMP VARIABLE FREQUENCY DRIVE	ABB ACS580-0P-023A-4+B056, 15-HP, 480-V
A7	FILTRATION	NEPTUNE BENSON DEFENDER SP-49-48-1548, REGENERATIVE MEDIA FILTER, 1,211-SQ FT FILTER SURFACE AREA WITH PERLITE MEDIA, CONTROL PANEL, DAYTON VACUUM SYSTEM FOR MEDIA INDUCTION, COMPRESSOR FOR BUMPING AND CLEANING CYCLE
A8	HEATING	RAYPAK MVB 2004A NATURAL GAS HEATER WITH CUPRONICKEL HEAT EXCHANGER, 1,999,000-BTUH, 14-IN FLUE, 8-IN COMBUSTION AIR INLET, 2.5-IN POOL CONNECTION, 2-IN GAS CONNECTION WITH INTEGRAL BOOSTER PUMP. 18-AMP DRAW.
A9	UV SYSTEM	ETS WF-225-8-N, (2) 2.5-KW MEDIUM PRESSURE LAMPS, 8-IN WATER CONNECTION, 208-V, 32-A, 1-PHASE, MAXIMUM 1,386-GPM
A10	CHEMICAL CONTROLLER	BECS CONTROLLER WITH LIGHTED FLOW CELL ASSEMBLY, ITEM #BECSYS5-XS1GP1OLTX
A11	WATER LEVEL CONTROL	JANDY LEVELOR K-1100 WATER FILL CONTROL PANEL WITH STATIC PIPE AND PROBE SYSTEM LOCATED IN DECK WELL. ASCO SLOW CLOSING SOLENOID VALVE ON POTABLE FILL PIPING, CONNECT TO FILL FUNNEL WITH 6-INCH AIR GAP.
A12	FILL FUNNEL	EXISTING TO REMAIN
A13	FLOW METER	GF SIGNET 2551 FLOWMETER WITH 4-20 mA SIGNAL TO BECSYS CONTROLLER FOR FLOW RATE DISPLAY
ALL EQUIPMENT NOTED ARE BASIS OF DESIGN & DESIGNATE MINIMUM PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS MAY BE USED PROVIDED THEY ARE SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL.		

SPLASHPAD EQUIPMENT

CALLOUT	EQUIPMENT	MODEL/DESCRIPTION
B1	PH BUFFER FEED SYSTEM	PULSAR ACID PLUS FEEDER, 60-LB FEEDER CAPACITY WITH SLOW CLOSING SOLENOID VALVE.
B2	CHLORINATION SYSTEM	PULSAR PRECISION 30 CALCIUM HYPOCHLORITE HIGH CAPACITY EROSION FEEDER, 30-LBS/DAY AVCL. PULSAR BOOSTER PUMP, #79214, 1-HP, 230/115-V, 6.3/12.6-A, 1-PHASE
B3	CIRCULATION PUMP, STRAINER, & GAUGES	PENTAIR INTELLIFLO3 VSF, 3-HP, 100-GPM @ 70-FT TDH, 2-IN SUCTION, 2-IN DISCHARGE, 208-V, 1-PHASE WITH INTEGRAL STRAINER. SUPER PRO 2-IN PRESSURE GAUGE, 0-60 PSI, #SPG-06-1005 / 83060BU AND COMPOUND GAUGE, 0-30 IN HG, # SPG-06-1008/ 86030BU WITH SNUBBERS, FILTERS AND BRASS VALVES AT EACH GAUGE.
B4	FEATURE PUMP, STRAINER, & GAUGES	PENTAIR WHISPERFLOWXF VS, 5-HP, 207-GPM @ 45-FT TDH, 2.5-IN SUCTION, 2.5-IN DISCHARGE, 208-230/277-460-V, 1-PHASE WITH INTEGRAL STRAINER. SUPER PRO 2-IN PRESSURE GAUGE, 0-60 PSI, #SPG-06-1005 / 83060BU AND COMPOUND GAUGE, 0-30 IN HG, # SPG-06-1008/ 86030BU WITH SNUBBERS, FILTERS AND BRASS VALVES AT EACH GAUGE.
B5	FILTRATION	PENTAIR TR140, 36-IN PRESSURE SAND FILTER, 7.06-SQ. FT. TOTAL FILTER AREA WITH MULTIPORT VALVE, FILTER GAUGES AND AUTOMATIC AIR RELIEF VALVE.
B6	UV SYSTEM	ETS WF-115-3-N, (1) 1.5-KW MEDIUM PRESSURE LAMPS, 3-IN WATER CONNECTION, 208-V, 20-A, 1 PHASE, MAXIMUM 211-GPM
B7	CHEMICAL CONTROLLER	BECS CONTROLLER WITH LIGHTED FLOW CELL ASSEMBLY, ITEM #BECSYS5-XS1GP1OLTX
B8	WATER LEVEL CONTROL	JANDY LEVELOR K-1100 WATER FILL CONTROL PANEL WITH STATIC PIPE AND PROBE SYSTEM LOCATED IN DECK WELL. ASCO SLOW CLOSING SOLENOID VALVE ON POTABLE FILL PIPING, CONNECT TO FILL FUNNEL WITH 6-INCH AIR GAP.
B9	FILL FUNNEL	8-IN x 4-IN STAND PIPE. REFER TO DETAIL
B10	FLOW METER	H2FLOW FLOWVIS FV-25, 2.5-IN PIPE SIZE, FLOW RANGE 10 - 110-GPM
ALL EQUIPMENT NOTED ARE BASIS OF DESIGN & DESIGNATE MINIMUM PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS MAY BE USED PROVIDED THEY ARE SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL.		

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AUBURN MUNICIPAL POOL RENOVATIONS
1020 H STREET
AUBURN, NE 68305

SEAL

PROFESSIONAL MECHANICAL ENGINEER
MATTHEW CAPPELLO
E-17531
STATE OF NEBRASKA

PERMIT RELEASE
DATE: 09-24-26 BY: EDW

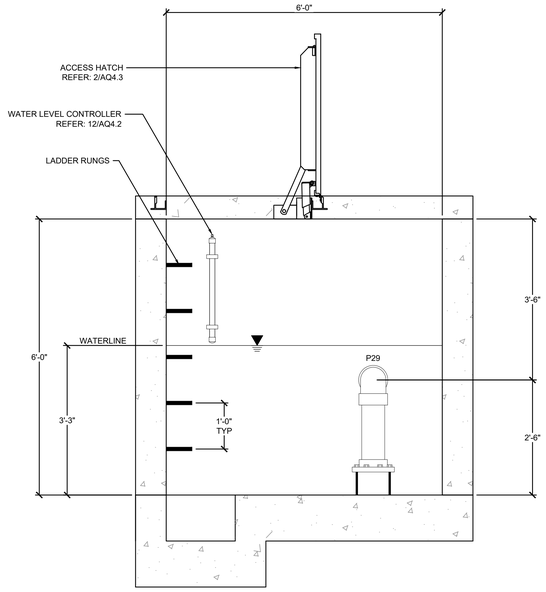
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AQUATIC MECHANICAL ROOM PLANS

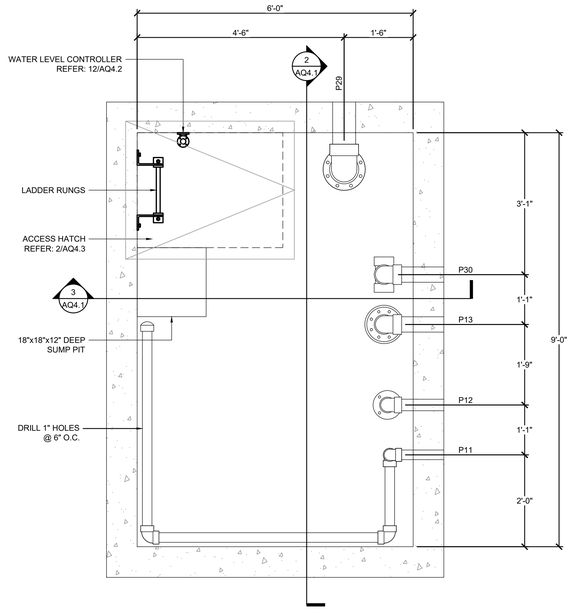
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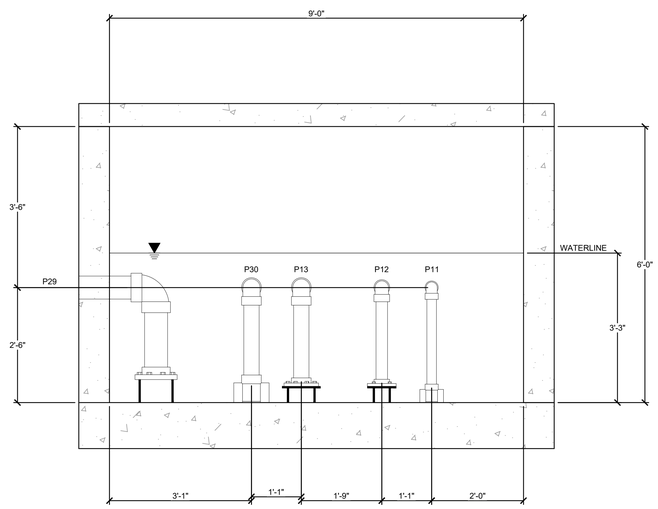
3 AQ4.1 SPLASHPAD BALANCE TANK SECTION

SCALE: 3/4" = 1'-0"



1 AQ4.1 SPLASHPAD BALANCE TANK PLAN

SCALE: 3/4" = 1'-0"



2 AQ4.1 SPLASHPAD BALANCE TANK SECTION

SCALE: 3/4" = 1'-0"

PIPE SCHEDULE

CALLOUT	DESCRIPTION
P1	EXISTING 12-IN FROM POOL MAIN DRAINS TO SURGE TANK
P2	10-IN FROM SURGE TANK TO POOL RECIRC PUMP
P3	EXISTING 12-IN FROM POOL GUTTER DROPOUTS TO SURGE TANK
P4	EXISTING 3-IN FILL LINE TO SURGE TANK
P5	8-IN FROM POOL RECIRC PUMP TO POOL FILTER
P6	4-IN PRECOAT LINE FROM P7 TO POOL RECIRC PUMP
P7	8-FROM POOL FILTER TO POOL GUTTER RETURN NOZZLES
P8	2.5-IN FROM P7 TO POOL HEATER
P9	2.5-IN FROM POOL HEATER TO P7
P10	4-IN FROM POOL FILTER TO BACKWASH TANK
P11	2.5-IN FROM SPLASHPAD FILTER TO BALANCE TANK
P12	3-IN FROM BALANCE TANK TO SPLASHPAD RECIRC PUMP
P13	4-IN FROM BALANCE TANK TO SPLASHPAD FEATURE PUMP
P14	2.5-IN FROM SPLASHPAD RECIRC PUMP TO SPLASHPAD FILTER
P15	2.5-IN FROM SPLASHPAD FILTER TO BACKWASH FUNNEL
P16	3-IN FROM SPLASHPAD FEATURE PUMP TO FEATURE MANIFOLD
P17	1-IN FROM FEATURE MANIFOLD TO BOBBLE NO1
P18	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK SPLIT
P19	1-IN FROM FEATURE MANIFOLD TO ASTRA NO2
P20	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK JET NO2
P21	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK JET NO2
P22	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK JET NO2
P23	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK GEYSER
P24	1-IN FROM FEATURE MANIFOLD TO L2 AQUATIC PLAY UNIT
P25	1-IN FROM FEATURE MANIFOLD TO SPRAYLINK SPLIT
P26	1-IN FROM FEATURE MANIFOLD TO LUNA NO3
P27	1-IN CONDUIT FROM SPLASHPAD CONTROLLER TO ACTIVATOR NO5
P28	1-IN CONDUIT FROM BALANCE TANK TO SPLASHPAD WATER LEVEL CONTROLLER
P29	6-IN FROM SPLASHPAD MAIN DRAIN TO BALANCE TANK
P30	4-IN FROM SPLASHPAD FUNNEL TO BALANCE TANK
P31	8-IN FROM EXISTING SLIDE TANK TO SLIDE PUMP
P32	8-IN FROM SLIDE PUMP TO WATERSLIDE

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PROFESSIONAL MECHANICAL ENGINEER
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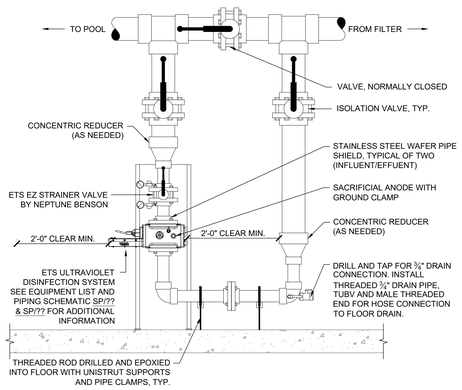
CONSTRUCTION RELEASE
DATE: BY:

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BALANCE TANK PLAN & SECTIONS

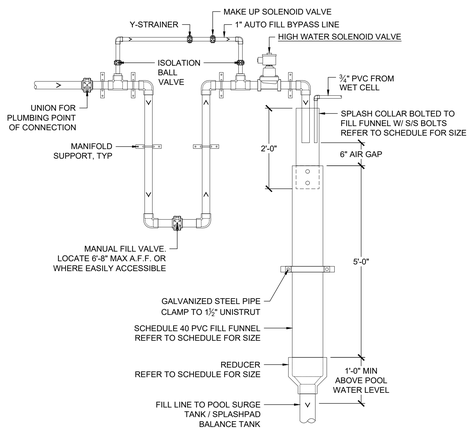
SHEET: AQ4.1

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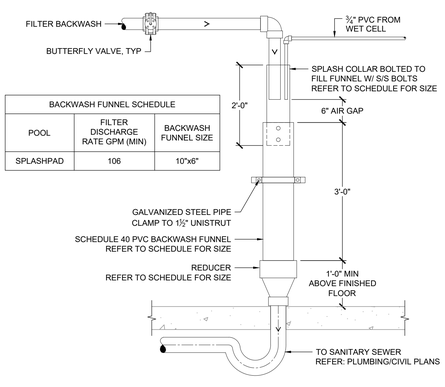
NOTES:
1. ALL PIPING & FITTINGS TO & FROM UV UNIT TO THE "UV BY-PASS TEES" SHALL BE SCH 80 PVC.
2. ALL PIPING REDUCTIONS SHALL BE WITH A CONCENTRIC REDUCER AS SHOWN. NO BUSHINGS ALLOWED.
3. COORDINATE ISTALLATION WITH ELECTRICAL CONTRACTOR. CONTROL BOX SHALL BE INSTALLED WITHIN 10 FT OF UNIT, WHENEVER POSSIBLE.
4. PROVIDE CLEARANCE AS REQIRED ADJACENT TO UV UNIT FOR REMOVAL & REPLACEMENT OF UV LAMPS.
5. DO NOT INSTALL VALVES DIRECTLY TO CHAMBER BODY. INSTALL STAINLESS STEELWAFER PIPE SHIELDS SUPPLIED WITH THE UV UNIT, PER MANUFACTURER'S RECOMMENDATIONS.
6. UV UNIT SHALL BE PROPERLY SUPPORTED WITH THE LAMP SUPPORT BRACING TO FORM A SINGLE FRAME/STRUCTURE.
7. UV LAMP AND PANEL MUST BE PROPERLY BONDED AND GROUNDED. PER MANUFACTURER'S INSTRUCTIONS, CONNECT GROUND WIRE TO BROUND CLAMP ON SACRIFICIAL ANODE. CONNECT THIS BONDING WIRE TO THE FRONT CHAMBER FOOT TERMINAL. CONNECT THE SEPARATE UV CONTROL PANEL GROUND WIRE (COMING FORM THE UV CONTROL PANEL) TO THE SAME LOCATION AT THE FRONT CHAMBER FOOT BRACKET.

13 AQ4.2 **ULTRAVIOLET TREATMENT SYSTEM**
SCALE: N.T.S.



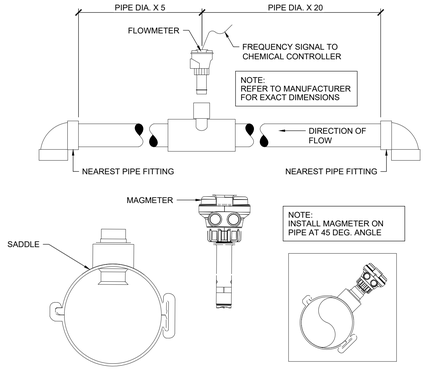
FILL FUNNEL SCHEDULE					
POOL	FRESH WATER SUPPLY GPM	FILL FUNNEL SIZE	REDUCER SIZE	SPLASH COLLAR SIZE	FILL LINE SIZE
POOL	60	12"	12" x 6"	10"	6"
SPLASHPAD	20	8"	8" x 4"	6"	4"

14 AQ4.2 **FILL FUNNEL**
SCALE: 3/4" = 1'-0"

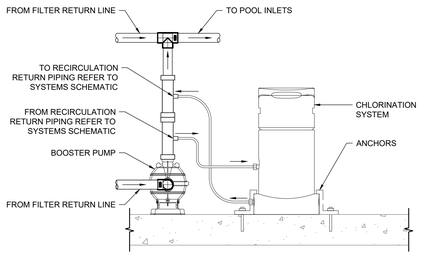


BACKWASH FUNNEL SCHEDULE		
POOL	FILTER DISCHARGE RATE GPM (MIN)	BACKWASH FUNNEL SIZE
SPLASHPAD	106	10"x6"

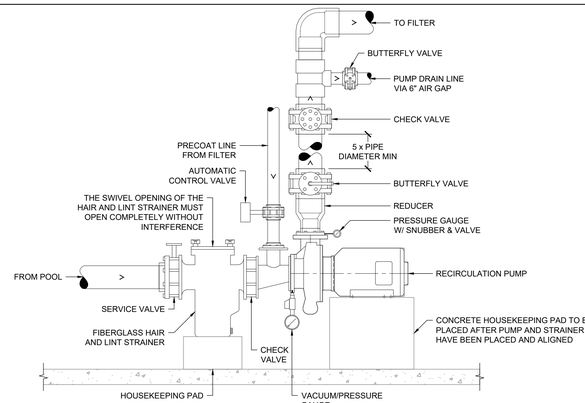
15 AQ4.2 **SPLASHPAD BACKWASH FUNNEL**
SCALE: 3/4" = 1'-0"



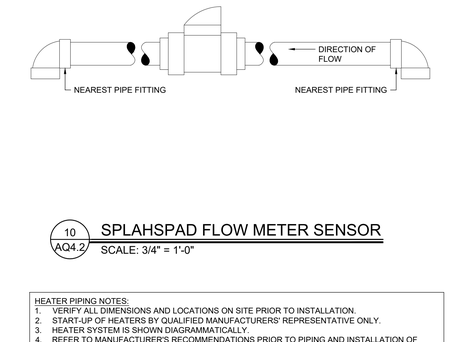
9 AQ4.2 **SWIMMING POOL FLOW METER SENSOR**
SCALE: 3/4" = 1'-0"



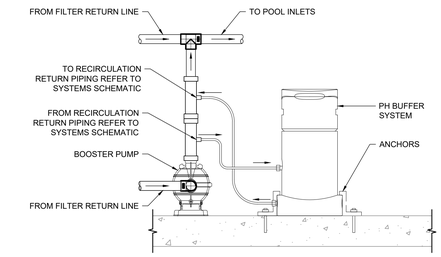
5 AQ4.2 **CHLORINATION SYSTEM**
SCALE: N.T.S.



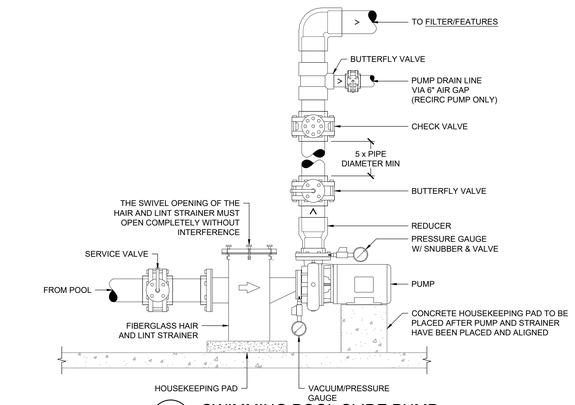
1 AQ4.2 **SWIMMING POOL RECIRC PUMP**
SCALE: N.T.S.



10 AQ4.2 **SPLAHSPAD FLOW METER SENSOR**
SCALE: 3/4" = 1'-0"

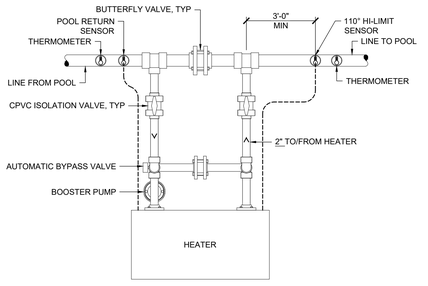


6 AQ4.2 **PH BUFFER SYSTEM**
SCALE: N.T.S.

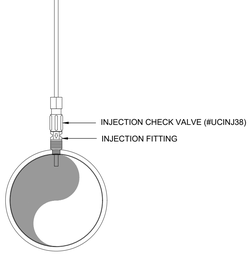


2 AQ4.2 **SWIMMING POOL SLIDE PUMP**
SCALE: N.T.S.

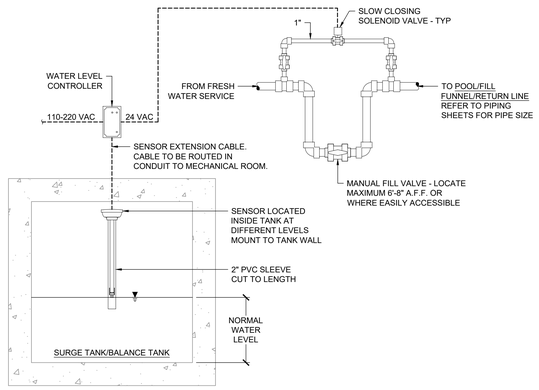
HEATER PIPING NOTES:
1. VERIFY ALL DIMENSIONS AND LOCATIONS ON SITE PRIOR TO INSTALLATION.
2. START-UP OF HEATERS BY QUALIFIED MANUFACTURERS' REPRESENTATIVE ONLY.
3. HEATER SYSTEM IS SHOWN DIAGRAMMATICALLY.
4. REFER TO MANUFACTURER'S RECOMMENDATIONS PRIOR TO PIPING AND INSTALLATION OF MULTIPLE HEATER SYSTEM.
5. GAS SERVICE, VENTING, AND COMBUSTION AIR TO/FROM HEATER BY PLUMBING / MECHANICAL.
6. POWER TO HEATER BY ELECTRICIAN.



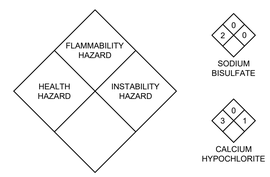
11 AQ4.2 **SWIMMING POOL HEATER SCHEMATIC**
SCALE: N.T.S.



7 AQ4.2 **CHEMICAL INJECTION DETAIL**
SCALE: N.T.S.



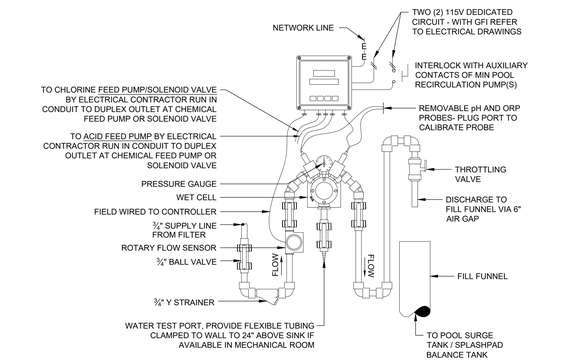
12 AQ4.2 **WATER LEVEL CONTROLLER**
SCALE: N.T.S.



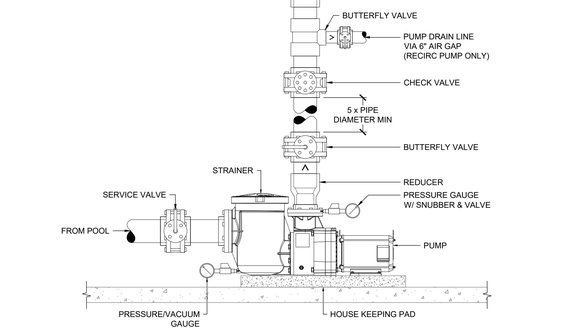
RATING EXPLANATION GUIDE			
RATING	HEALTH HAZARD	FLAMMABILITY	INSTABILITY HAZARD
4	CAN BE LETHAL	BELOW 73 DEGREES F	MAY EXPLODE AT NORMAL TEMPERATURES AND PRESSURES
3	CAN CAUSE SERIOUS OR PERMANENT INJURY	ABOVE 73 DEGREES F, BELOW 100 DEGREES F	MAY EXPLODE AT HIGH TEMPERATURES OR SHOCK
2	CAN CAUSE TEMPORARY INCAPACITATION OR RESIDUAL INJURY	ABOVE 100 DEGREES F, BELOW 200 DEGREES F	VIOLENT CHEMICAL CHANGE AT HIGH TEMPERATURES OR PRESSURES
1	CAN CAUSE SIGNIFICANT IRRITATION	ABOVE 200 DEGREES F	NORMALLY STABLE. HIGH TEMPERATURES MAKE UNSTABLE
0	NO HAZARD	WILL NOT BURN	STABLE

CONFIRM SIGNAGE WITH LOCAL FIRE MARSHAL AND/OR BUILDING CODES PRIOR TO INSTALLATION.

8 AQ4.2 **HAZARD SIGNAGE**
SCALE: N.T.S.



4 AQ4.2 **CHEMICAL CONTROLLER**
SCALE: N.T.S.



3 AQ4.2 **TYPICAL SPLASHPAD PUMP**
SCALE: N.T.S.

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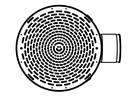
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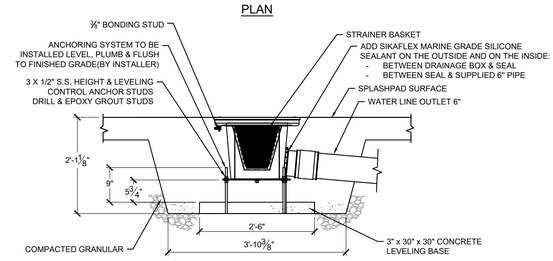
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MECHANICAL DETAILS

SHEET: AQ4.2



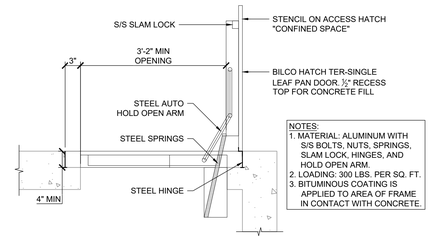
PLAN



ELEVATION

1 AQ4.3 **SPLASHPAD MAIN DRAIN**

SCALE: 3/4" = 1'-0"



2 AQ4.3 **BALANCE TANK ACCESS HATCH**

SCALE: 3/4" = 1'-0"

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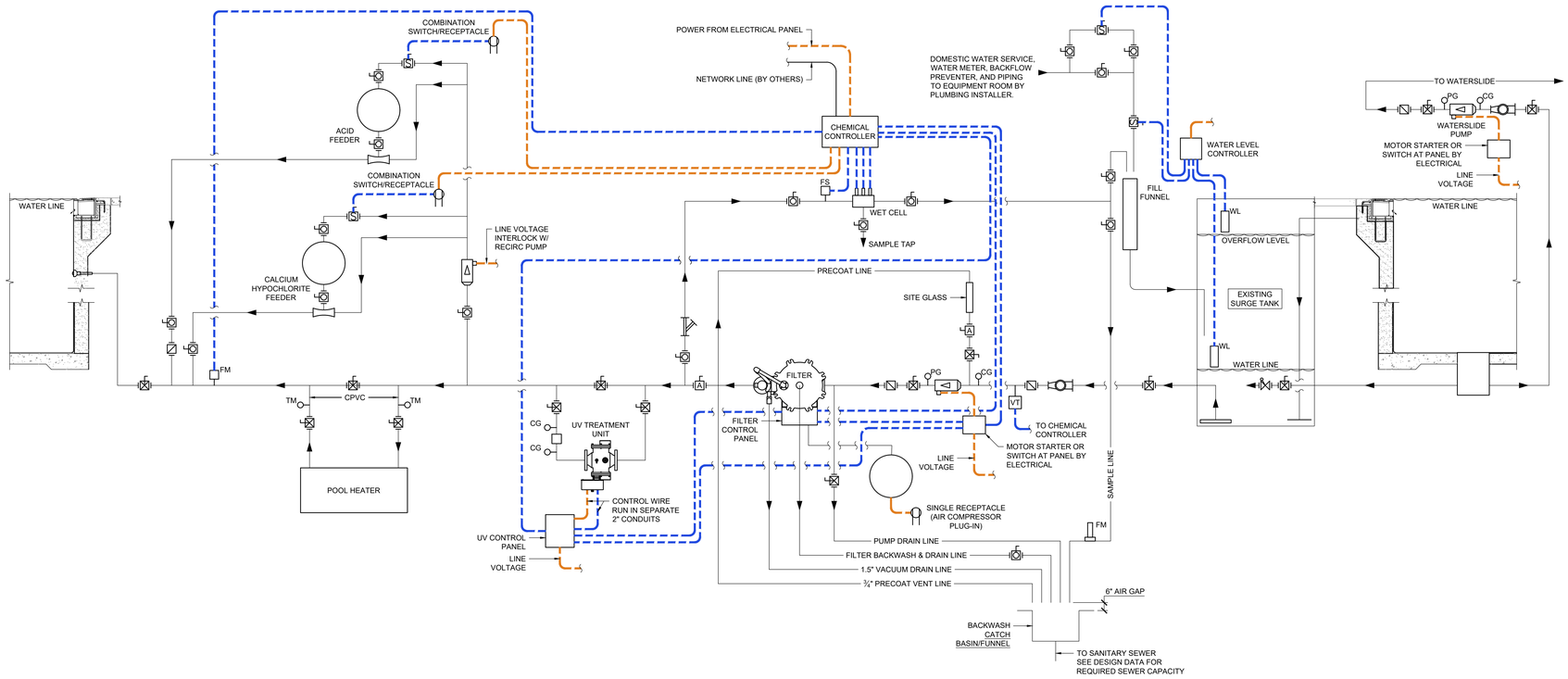
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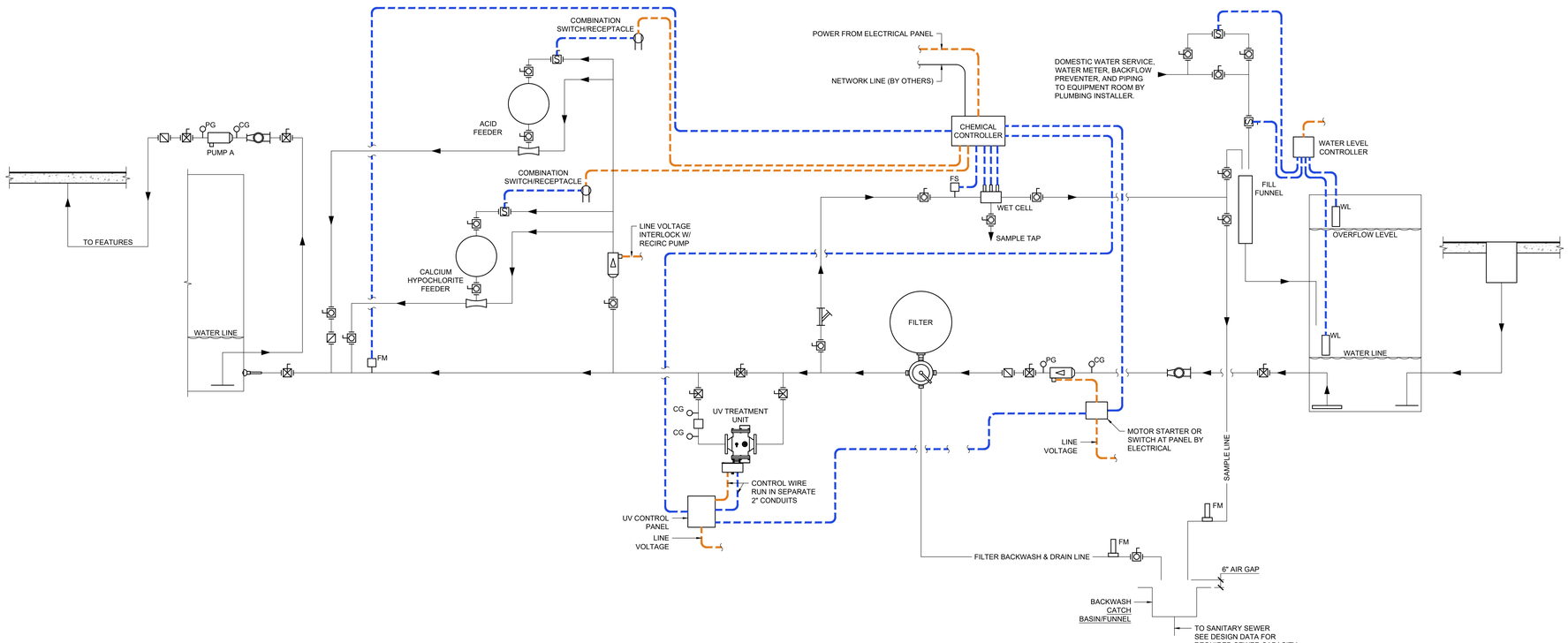
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MECHANICAL DETAILS

SHEET: AQ4.3



1 AQ5.0 SWIMMING POOL SYSTEMS SCHEMATIC
SCALE: N.T.S.



2 AQ5.0 SWIMMING POOL SLIDE PUMP
SCALE: N.T.S.

2 AQ5.0 SPLASHPAD SYSTEMS SCHEMATIC
SCALE: N.T.S.

SCHEMATIC LEGEND

LEGEND	ITEM
	WET CELL
	SOLENOID VALVE
	AIR ACTIVATED BUTTERFLY VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	MODULATING FLOAT VALVE
	PUMP
	HAIR & LINT STRAINER
PG	PRESSURE GAUGE
CG	COMPOUND GAUGE
FS	FLOW SENSOR
	DIRECTION OF FLOW
	"Y" STRAINER
FM	FLOW METER (SIGNET MAG METER)
FM	FLOW METER (BLUE WHITE)
	VENTURI FLOW METER
VFD	VARIABLE FREQUENCY DRIVE
TM	THERMOMETER
WL	WATER LEVEL SENSOR
	RECEPTACLE
	WATER METER
	FLOW CONTROL VALVE
R	REMOTE START/STOP
E	EMERGENCY STOP
	LOW VOLTAGE CONTROL
	LINE VOLTAGE (120/208V)
	WATER LINE
	VENT LINE
	CO2 LINE
N	NETWORK LINE

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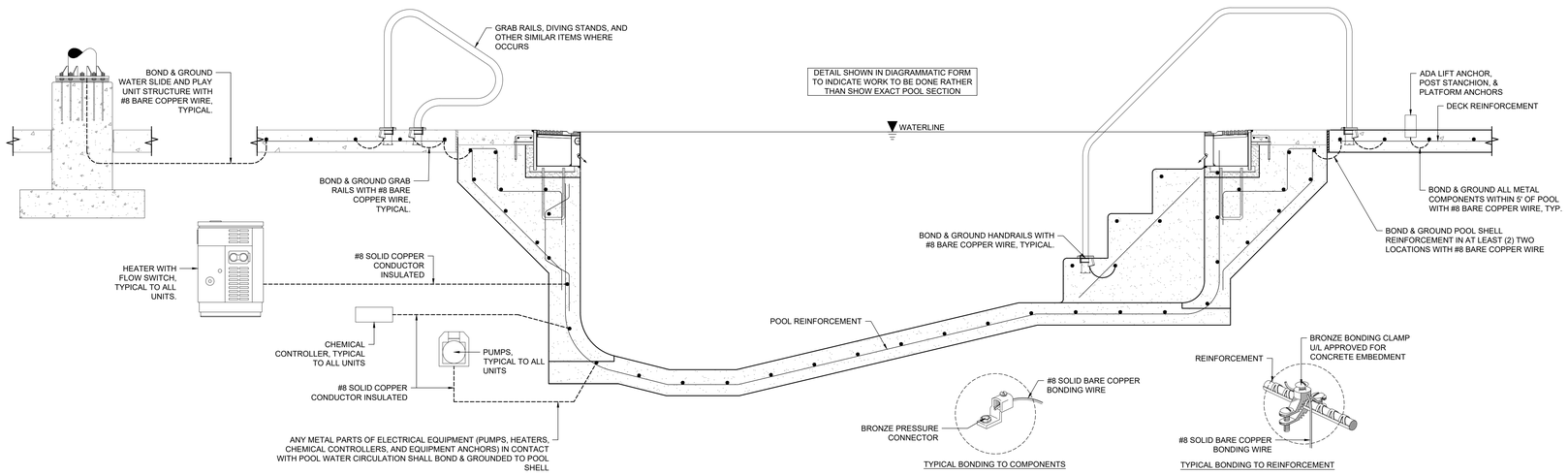
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POOL SYSTEM SCHEMATICS

SHEET: AQ5.0

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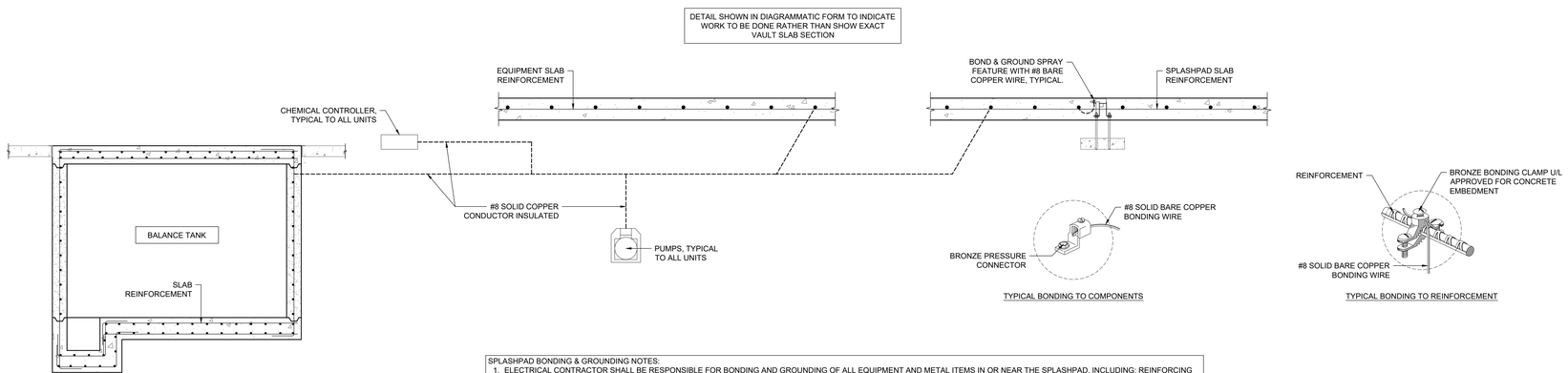


POOL BONDING & GROUNDING NOTES:

1. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR BONDING AND GROUNDING ALL EQUIPMENT AND METAL ITEMS IN OR NEAR THE POOL, INCLUDING: LIGHTS, NICHES, RAILINGS, ADA LIFT ANCHORS, REINFORCING STEEL, ETC. WITH A GROUND WIRE AS INDICATED. ALL BONDING SHALL BE PERFORMED IN ACCORDANCE WITH NEC.
2. POOL CONTRACTOR SHALL PROVIDE CONDUIT AND SUFFICIENT LENGTH OF CORD FROM EACH UNDERWATER LIGHT TO ITS J-BOX AND TO ALLOW FOR LIGHT TO REACH DECK FOR RE-LAMPING.
3. POOL CONTRACTOR SHALL PROVIDE AND INSTALL (PER 2010 NEC) AN EMERGENCY SHUT-OFF SWITCH.
4. ELECTRICAL WIRING OR CONDUCTORS SHALL NOT BE ROUTED UNDERGROUND BENEATH THE POOL SHELL.
5. NO OUTLETS SHALL BE LOCATED WITHIN 10 FT OF POOL. ALL OUTLETS 10 FT TO 20 FT FROM POOL TO BE GFCI PROTECTED. GFCI PROTECTION MUST BE PROVIDED PER NEC AND IN COMPLIANCE WITH LOCAL CODES FOR ALL LIGHTING CIRCUITS, MOTORS, EQUIPMENT, OUTLETS, AND ELECTRICAL CIRCUITS IN THE POOL AREA.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE AND CONNECTIONS TO ALL PUMP MOTORS, CIRCUIT BREAKERS, DISCONNECTS, PANELS, RELAYS, CONTROLLERS, HEATERS, OR OTHER POOL EQUIPMENT IN EQUIPMENT ROOM.
7. PROVIDE FLOW SWITCH WITH HEATER(S) TO INTERLOCK THE CIRCULATION PUMP WITH THE CHEMICAL FEEDERS AND WITH THE HEATER.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT FROM J-BOX TO LIGHT NICHE AND PROVIDE JUNCTION BOX AND HOOK UP.
9. ELECTRICAL CONTRACTOR SHALL PROVIDE LIGHT SWITCHES FOR UNDERWATER LIGHTS IN A LOCATION WHERE THEY ARE NOT ACCESSIBLE BY BATHERS. (SWITCH LOCATION DETERMINED BY OWNER / ARCHITECT).

1 AQ5.1 TYPICAL POOL BONDING SCHEMATIC

SCALE: N.T.S.



SPLASHPAD BONDING & GROUNDING NOTES:

1. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR BONDING AND GROUNDING OF ALL EQUIPMENT AND METAL ITEMS IN OR NEAR THE SPLASHPAD, INCLUDING: REINFORCING STEEL, ETC. WITH A GROUND WIRE AS INDICATED. ALL BONDING SHALL BE PERFORMED IN ACCORDANCE WITH NEC.
2. SPLASHPAD CONTRACTOR SHALL PROVIDE AND INSTALL (PER NEC) AND EMERGENCY SHUT-OFF SWITCH.
3. ELECTRICAL WIRING OR CONDUCTORS SHALL NOT BE ROUTED UNDERGROUND BENEATH THE SPLASHPAD SHELL.
4. NO OUTLETS SHALL BE LOCATED WITHIN 10 FT OF SPLASHPAD. ALL OUTLETS 10 FT TO 20 FT FROM SPLASHPAD TO BE GFCI PROTECTED. GFCI PROTECTION MUST BE PROVIDED PER NEC AND IN COMPLIANCE WITH LOCAL CODES FOR ALL LIGHTING CIRCUITS, MOTORS, EQUIPMENT, OUTLETS, AND ELECTRICAL CIRCUITS IN THE SPLASHPAD AREA.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE AND CONNECTIONS TO ALL PUMP MOTORS, CIRCUIT BREAKERS, DISCONNECTS, PANELS, RELAYS, CONTROLLERS, HEATERS, OR OTHER SPLASHPAD EQUIPMENT IN EQUIPMENT ROOM.

2 AQ5.1 TYPICAL SPLASHPAD BONDING SCHEMATIC

SCALE: N.T.S.

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POOL BONDING SCHEMATICS

SHEET: AQ5.1

SUMMARY

A. GENERAL AND SUPPLEMENTARY CONDITIONS WITHIN THE SPECIFICATIONS ARE HEREBY INCORPORATED AND BECOME PART OF THESE SPECIFICATIONS AND AS SUCH SHALL BE APPLICABLE TO THE WORK OF THE ELECTRICAL CONTRACT.

B. PRIOR TO SUBMISSION OF A BID PROPOSAL, THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND LIMITATIONS THAT IMPACT THE WORK OF THIS CONTRACT. NO ADDITIONAL COSTS TO THE OWNER SHALL BE PERMITTED FOR CHANGES TO THE WORK AS A RESULT OF THE CONTRACTORS FAILURE TO VISIT THE SITE PRIOR TO BIDDING AND IDENTIFY ITEMS THAT WERE ABLE TO BE VERIFIED DURING A SITE VISIT PRIOR TO THE SUBMISSION OF A BID PROPOSAL.

C. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, RIGGING, AND MISCELLANEOUS ITEMS AS REQUIRED FOR A COMPLETE, OPERATIONAL, FUNCTIONAL AND CODE COMPLIANT ELECTRICAL INSTALLATION AS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN THESE SPECIFICATIONS.

LANDLORDS REQUIREMENTS

A. ALL WORK OF THIS CONTRACT SHALL BE COMPLETED IN STRICT ACCORDANCE WITH ALL APPLICABLE LANDLORD REQUIREMENTS INCLUDING BUT NOT NECESSARILY LIMITED TO; LANDLORD'S WORK LETTER, LANDLORD'S CONSTRUCTION CRITERIA AND/OR THE TENANT/LANDLORD AGREEMENT. THIS CONTRACTOR SHALL EXAMINE THESE DOCUMENTS PRIOR TO THE SUBMISSION OF A BID PROPOSAL.

B. ALL APPLICABLE LANDLORD REQUIREMENTS INCLUDING BUT NOT NECESSARILY LIMITED TO THE LANDLORD'S WORK LETTER, LANDLORDS CONSTRUCTION CRITERIA AND/OR THE TENANT/LANDLORD AGREEMENT DOCUMENTS SHALL BE CONSIDERED PART OF THESE SPECIFICATIONS.

EXISTING CONDITIONS

A. THE CONTRACT DOCUMENTS ARE BASED ON INFORMATION PROVIDED TO THE CONSULTANT AT THE TIME OF DESIGN. THIS CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A BID PROPOSAL.

BIDS AND SUBSTITUTIONS

A. PRIOR TO SUBMISSION OF A BID PROPOSAL, CONTRACTOR SHALL THOROUGHLY REVIEW THE BID INSTRUCTIONS AND ALL CIVIL, ARCHITECTURAL, STRUCTURAL, SPA AND MEPFP AND TELECOMMUNICATION CONSTRUCTION DOCUMENTS.

B. SHOULD THE CONTRACTOR WISH TO SUBMIT AN ALTERNATE PRODUCT TO THE MANUFACTURERS NAMED IN THESE SPECIFICATIONS OR ON THE DRAWINGS FOR ANY EQUIPMENT, THE CONTRACTOR SHALL SUBMIT A VOLUNTARY ALTERNATIVE A MINIMUM OF SEVEN (7) CALENDAR DAYS PRIOR TO BID, STATING THE MANUFACTURER'S NAME, MODEL NUMBER, WRITTEN, DETAILED PRODUCT DATA.

C. WORK PERFORMED OR CONSTRUCTED WITH UNAPPROVED EQUALS IS AT CONTRACTOR'S RISK AND ANY REQUIRED CORRECTION OF WORK INCORPORATING UNAPPROVED EQUALS SHALL BE AT CONTRACTOR'S SOLE COST AND EXPENSE.

D. NO SUBSTITUTIONS PERMITTED FOR LIGHTING FIXTURES.

QUALITY ASSURANCE

A. ALL MATERIALS AND EQUIPMENT SHALL BE NEW.

B. PROVIDE PERMITS, INSPECTIONS, FINAL CERTIFICATES OF INSPECTION BY THE AUTHORITY HAVING JURISDICTION, PERMIT AND INSPECTION FEES AND ALL MATERIALS, EQUIPMENT AND LABOR AS REQUIRED FOR A COMPLETE, FUNCTIONAL, FULLY OPERATIONAL AND CODE COMPLIANT ELECTRICAL SYSTEM.

C. THIS CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND ACCESSORIES FOR A COMPLETE FUNCTIONAL AND CODE COMPLIANT ELECTRICAL INSTALLATION, WHETHER OR NOT SHOWN ON THE DRAWINGS OR SPECIFIED IN THESE SPECIFICATIONS.

D. EC SHALL VERIFY THE VOLTAGE AND AMPERAGE REQUIREMENTS OF ALL EQUIPMENT DELIVERED TO THE SITE PRIOR TO CONNECTION. EC SHALL NOTIFY THE OWNER OF ANY DIFFERENCES

E. REQUIREMENTS OF REGULATORY AGENCIES:

1. PERMITS: ARRANGE AND PAY FOR ALL PERMITS, INSPECTIONS AND UTILITY CONNECTIONS REQUIRED.
2. PROVIDE ALL TESTS AND INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
3. PROVIDE A SIGNED CERTIFICATE OF INSPECTION AT THE COMPLETION OF THE PROJECT. INCLUDE IN OPERATION AND MAINTENANCE MANUALS.

E. CODES AND STANDARDS

1. COMPLY WITH SPECIFIED CODES AND STANDARDS. IF CONFLICT EXISTS BETWEEN CODES OR STANDARDS AND DRAWINGS, PROJECT MANUAL OR ADDENDA REQUIREMENTS, REQUEST CLARIFICATION FROM ARCHITECT/ENGINEER.
2. CONFORM TO THE INSTALLATION RULES AND REGULATIONS OF THE CODES AND STANDARDS LISTED INCLUDING ALL SUBSEQUENTLY PUBLISHED AMENDMENTS THERETO ISSUED PRIOR TO THE DATE OF THE BIDDING DOCUMENTS.
3. CONFORM TO THE REQUIREMENTS OF ALL LOCAL, STATE AND FEDERAL AGENCIES WHICH HAVE AUTHORITY OVER THIS PROJECT.
4. COMPLY WITH THE APPLICABLE EDITION OF THE FOLLOWING CODES AND STANDARDS THAT HAVE BEEN ADOPTED BY AND ARE ENFORCED BY THE AUTHORITY HAVING JURISDICTION:
   a. INTERNATIONAL BUILDING CODE.
   b. INTERNATIONAL ENERGY CONSERVATION CODE
   c. INTERNATIONAL MECHANICAL CODE
   d. NATIONAL ELECTRICAL CODE
   e. INTERNATIONAL FIRE CODE
   f. LIFE SAFETY CODE, NFPA 101
   g. AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES
   h. ALL LOCAL CODES AND ORDINANCES ADOPTED AND ENFORCED BY THE AUTHORITY HAVING JURISDICTION.

F. REFERENCED STANDARDS:

1. ALL EQUIPMENT, APPARATUS, MATERIALS AND SYSTEMS SHALL BE RATED, TESTED, FABRICATED AND INSTALLED IN ACCORDANCE WITH THE APPLICABLE INDUSTRY STANDARDS.
2. ALL EQUIPMENT, APPARATUS, MATERIALS AND SYSTEMS SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (UL, ETL, ETC)

ELECTRICAL CONTRACT DOCUMENTS

A. THE ELECTRICAL DRAWINGS (DRAWINGS) AND THE SPECIFICATIONS SHALL TOGETHER FORM A SET OF CONTRACT DOCUMENTS FOR THE ELECTRICAL WORK. NEITHER THE DRAWINGS OR THE SPECIFICATIONS SHALL BE COMPLETE WITHOUT THE OTHER. ANY ITEM SHOWN ONLY ON THE DRAWINGS OR SPECIFIED ONLY IN THE SPECIFICATIONS SHALL BE CONSIDERED AS IF SHOWN AND SPECIFIED IN BOTH.

B. ELECTRICAL DRAWINGS AND SPECIFICATIONS: COMPLY WITH THE FOLLOWING REQUIREMENTS:

1. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ALL DRAWINGS AND SPECIFICATIONS WITHIN THE CONTRACT DOCUMENTS, INCLUDING, BUT NOT NECESSARILY LIMITED TO, GEOTECHNICAL, LANDSCAPE, CIVIL, ARCHITECTURAL, STRUCTURAL, FOOD SERVICE, MECHANICAL, PLUMBING, TELECOMMUNICATION AND FIRE PROTECTION DRAWINGS AND SPECIFICATIONS.
2. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO INDICATE APPROXIMATE LOCATION ONLY OF ELECTRICAL WORK. THE ACTUAL LOCATION OF ANY ELECTRICAL WORK SHALL NOT INTERFERE WITH THE LOCATION, CLEARANCES, ETC. REQUIRED BY THE WORK OF OTHER TRADES.
3. PRIOR TO ROUGH-IN, CONTRACTOR SHALL COORDINATE ALL DEVICE LOCATIONS WITH THE ARCHITECTURAL WALL ELEVATIONS, CASEWORK/CABINETRY ELEVATIONS AND DETAILS AND THE FINAL, APPROVED FOOD SERVICE SHOP DRAWINGS.

C. DEFINITIONS: THE FOLLOWING TERMS ARE USED ON THE ELECTRICAL DRAWINGS AND IN THE SPECIFICATIONS AND SHALL BE DEFINED AS FOLLOWS:

1. CONTRACTOR - THE ELECTRICAL CONTRACTOR OR ANY OF THEIR SUB-CONTRACTORS.
2. WORK - ALL MATERIAL, LABOR, TRANSPORTATION OF THE ELECTRICAL CONTRACTOR OR ANY OF THEIR SUB-CONTRACTORS.
3. FURNISH - PURCHASE, SUBMIT FOR REVIEW AND APPROVAL, COORDINATE WITH THE CONTRACT DOCUMENTS AND DELIVER TO THE PROJECT SITE IN NEW, UNDAMAGED CONDITION, STORE AS DIRECTED, PROTECT FROM DAMAGE DURING STORAGE.
4. INSTALL - INSTALL IN PLACE, MAKE READY FOR CONNECTION TO THE REQUIRED SERVICE.
5. CONNECT - CONNECT TO THE REQUIRED SERVICE AS REQUIRED FOR PROPER OPERATION, TEST FOR PROPER OPERATION AND FUNCTIONALITY IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND REQUIREMENTS SPECIFIED WITHIN THESE SPECIFICATIONS AND TURN OVER TO THE OWNER IN FULL OPERATING CONDITION.
6. PROVIDE - FURNISH, INSTALL AND CONNECT AS DEFINED HEREIN FOR A COMPLETE, FUNCTIONAL AND CODE COMPLIANT INSTALLATION READY FOR INTENDED USE.
7. FINISHED SPACE - SPACES HAVING WALLS PAINTED OR FINISHED WITH WALL COVERING, LAY-IN OR DRYWALL CEILINGS, AND FINISHED FLOORING MATERIALS. EXAMPLES OF FINISHED SPACES INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, ALL SPACES IN A DWELLING UNIT, OFFICES, LOBBIES, CORRIDORS, TOILET ROOMS, ETC.
8. UNFINISHED SPACES - SPACES WITH UNFINISHED WALLS AND FLOORS AND TYPICALLY ARE NOT EQUIPPED WITH A CEILING. EXAMPLES INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, MECHANICAL ROOMS, ELECTRICAL ROOMS, SERVICE AREAS, ETC.
9. SHALL - ACTION THAT IS REQUIRED WITHOUT OPTION OR QUALIFICATION.
10. REMOVE - DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF THEM OFF SITE UNLESS INDICATED TO BE REMOVED AND SALVAGED OR REMOVED AND RE-INSTALLED.
11. REMOVE AND SALVAGE - CAREFULLY DETACH FROM EXISTING CONSTRUCTION IN A MANNER TO PREVENT DAMAGE AND DELIVER TO OWNER READY FOR RE-USE.
12. REMOVE AND REINSTALL - DETACH ITEMS FROM EXISTING CONSTRUCTION, PREPARE FOR RE-USE, RE-INSTALL AND RECONNECT WHERE INDICATED SUCH THAT THE RE-INSTALLED ITEM IS FULLY OPERATIONAL.
13. EXISTING TO REMAIN - EXISTING ITEMS OF CONSTRUCTION THAT ARE NOT TO BE PERMANENTLY REMOVED AND THAT ARE NOT OTHERWISE INDICATED TO BE REMOVED, REMOVED AND SALVAGED OR REMOVED AND RE-INSTALLED.

SUBMITTALS

A. REVIEW OF THE SHOP DRAWINGS IS RENDERED AS A SERVICE ONLY AND SHALL NOT BE CONSIDERED AS A GUARANTEE OF MEASUREMENTS OR OF BUILDING CONDITIONS; NOR SHALL IT BE CONSTRUED AS RELIEVING THE CONTRACTOR'S OF BASIC RESPONSIBILITIES UNDER HIS CONTRACT. ARCHITECT/ENGINEER WILL REVIEW SHOP DRAWINGS ONLY FOR CONFORMANCE WITH DESIGN CONCEPT OF THE PROJECT. REVIEW BY THE ARCHITECT/ENGINEER SHALL NOT BE CONSTRUED:

1. AS PERMITTING ANY DEPARTURE FROM THE CONTRACT REQUIREMENTS.
2. AS RELIEVING THE CONTRACTOR OF THE RESPONSIBILITY FOR ANY ERROR IN DETAILS, DIMENSIONS OR OTHERWISE THAT MAY EXIST.
3. AS APPROVED DEPARTURES FROM ADDITIONAL DETAILS OR INSTRUCTIONS PREVIOUSLY FURNISHED BY THE ARCHITECT/ENGINEER.

B. SHOP DRAWINGS:

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND DESCRIPTIVE LITERATURE OF EQUIPMENT TO BE FURNISHED UNDER THIS CONTRACT. DRAWINGS SHALL STATE CAPACITIES, SIZES, ETC., OF ALL EQUIPMENT AND SHALL BE CERTIFIED. SEE GENERAL CONDITIONS AND SUPPLEMENTARY CONDITIONS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE SUBMITTALS FOR LIGHTING FIXTURES, TRANSFORMERS, PANELBOARDS, LIGHTING CONTROL DEVICES, CONTACTORS, WIRING DEVICES, DISCONNECT SWITCHES, POWER SYSTEM STUDY.

C. THE CONTRACTOR SHALL PERFORM NO PORTION OF THE WORK REQUIRING SUBMITTAL AND REVIEW OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNTIL THE RESPECTIVE SUBMITTALS HAS BEEN APPROVED BY THE ENGINEER.

ELECTRICAL COORDINATION DRAWINGS

A. PREPARE ELECTRICAL COORDINATION DRAWINGS AS REQUIRED BY THE WORK AND AS DIRECTED BY THE GENERAL CONTRACTOR.

B. MEET WITH REPRESENTATIVES OF THE OTHER DISCIPLINES/TRADES TO COORDINATE THE ELECTRICAL WORK WITH THE WORK OF EACH DISCIPLINE AND TO OBTAIN INFORMATION REGARDING THEIR WORK THAT IS TO BE INDICATED ON THE COORDINATION DRAWINGS.

RECORD DOCUMENTS

A. DURING THE PROGRESS OF THE WORK, CONTRACTOR SHALL MAINTAIN A CURRENT (DAILY) AS-BUILT SET OF THE DRAWINGS AND SPECIFICATIONS, INDICATING THEREON ALL WORK INSTALLED AT VARIANCE WITH SUCH CONTRACT DOCUMENTS INCLUDING, WITHOUT LIMITATION, WORK COVERED BY ADDENDA, FIELD WORK ORDERS, CHANGE ORDERS, AND ENGINEERS

B. CONTRACTOR SHALL PROVIDE THE TENANT WITH THE FINAL AS-BUILT SET OF DRAWINGS AT THE COMPLETION OF THE WORK.

COORDINATION WITH LANDLORD AND UTILITY COMPANIES

A. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL COORDINATE THE WORK OF THIS CONTRACT WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE AND AUTHORIZED REPRESENTATIVES OF EACH SERVING UTILITY THAT WILL PROVIDE SERVICE TO THIS SITE, INCLUDING BUT NOT NECESSARILY LIMITED TO, ELECTRIC, TELEPHONE AND CABLE/SATELLITE TV SERVICE PROVIDERS.

B. CONTRACTOR SHALL MEET WITH AUTHORIZED REPRESENTATIVES OF THE LANDLORD AND EACH UTILITY TO DISCUSS LANDLORD UTILITY COMPANY SCOPE OF WORK, CONTRACTOR SCOPE OF WORK, POINT OF SERVICE PICK-UP, DETAILS REGARDING SYSTEM INTERFACE, UTILITY COMPANY STANDARDS TO BE COMPLIED WITH, ETC.

COORDINATION WITH OTHER TRADES

A. ELECTRICAL WORK SHALL BE INSTALLED SO AS TO NOT CONFLICT WITH THE WORK OF OTHER TRADES.

B. SET ALL SLEEVES AND CUT AND PATCH ALL MISCELLANEOUS HOLES NECESSARY FOR THE CONVENIENT AND PROPER INSTALLATION OF THE WORK.

C. CONFER WITH THE OTHER CONTRACTORS REGARDING THE LOCATION AND SIZE OF PIPES, EQUIPMENT, DUCTS, OPENINGS AND SPECIAL ARCHITECTURAL TREATMENTS IN ORDER THAT THERE MAY BE NO INTERFERENCES BETWEEN THE INSTALLATION OR THE PROGRESS OF THE WORK OF ANY CONTRACTOR ON THE PROJECT.

D. ALL LINE VOLTAGE WIRING AND FINAL CONNECTIONS TO COMPLETE MECHANICAL SYSTEMS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

E. PROVIDE FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT FURNISHED/PROVIDED BY OTHERS, (HVAC EQUIPMENT, PLUMBING EQUIPMENT, COMMERCIAL KITCHEN EQUIPMENT, ETC.

F. COORDINATE THE NEMA CONFIGURATION OF THE RECEPTACLE TO BE PROVIDED WITH THE NEMA PLUG CONFIGURATION OF THE CORD/PLUG ASSEMBLY FURNISHED WITH THE EQUIPMENT TO BE INSTALLED. PROVIDE RECEPTACLES HAVING A NEMA CONFIGURATION THAT MATCHES THE NEMA CONFIGURATION OF THE PLUG ON THE EQUIPMENT.

G. PROVIDE FINAL COORDINATION OF AVAILABLE POWER (VOLTAGE/PHASE) WITH OTHER TRADES PRIOR TO THEIR ORDERING OF EQUIPMENT.

H. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING ELECTRICAL WORK TO BE PROVIDED ASSOCIATED WITH MECHANICAL EQUIPMENT.

I. WHERE ELECTRICAL WORK (CONDUIT BOXES, RECEPTACLES, DISCONNECT SWITCHES, ETC.) ARE SECURED DIRECTLY TO THE HOUSING OF MECHANICAL EQUIPMENT, THEY SHALL BE INSTALLED ON A PORTION OF THE EQUIPMENT HOUSING NOT REQUIRED TO BE REMOVED FOR ROUTINE MAINTENANCE. PRIOR TO INSTALLATION, COORDINATE ALL ELECTRICAL WORK AT MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.

TEMPORARY POWER

A. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY CONSTRUCTION POWER AND LIGHTING TO ALLOW ALL CONTRACTORS AND SUB-CONTRACTORS TO PERFORM THE WORK OF THEIR CONTRACTS.

B. PRIOR TO THE SUBMISSION OF A BID PROPOSAL, THE CONTRACTOR SHALL CONTACT THE GENERAL CONTRACTOR TO COORDINATE THE TYPE OF EQUIPMENT TO BE UTILIZED DURING THE WORK OF THIS CONTRACT

SEQUENCING AND SCHEDULING

A. COORDINATE ELECTRICAL EQUIPMENT INSTALLATION WITH OTHER BUILDING COMPONENTS AND THE PROJECT PHASING PLAN.

UTILITY COMPANY METERING EQUIPMENT

A. PROVIDE ALL EQUIPMENT REQUIRED FOR ELECTRICITY METERING BY UTILITY COMPANY. ALL METERING EQUIPMENT AND THE INSTALLATION OF THE EQUIPMENT SHALL BE IN COMPLIANCE WITH ALL UTILITY COMPANY REQUIREMENTS.

B. ELECTRICAL SERVICE CONNECTIONS: COORDINATE WITH UTILITY COMPANIES AND COMPONENTS THEY FURNISH AS FOLLOWS:

1. COMPLY WITH REQUIREMENTS OF UTILITIES PROVIDING ELECTRICAL POWER SERVICES.
2. COORDINATE INSTALLATION AND CONNECTION OF UTILITIES AND SERVICES, INCLUDING PROVISION FOR ELECTRICITY-METERING COMPONENTS.

C. METERS SHALL BE FURNISHED BY UTILITY COMPANY; INSTALLED BY ELECTRICAL CONTRACTOR.

D. METER SOCKETS: COMPLY WITH REQUIREMENTS OF ELECTRICAL-POWER UTILITY COMPANY.

E. INSTALL ALL CONDUITS AND EQUIPMENT ACCORDING TO UTILITY COMPANY'S WRITTEN REQUIREMENTS. PROVIDE EMPTY CONDUITS FOR METERING LEADS AND EXTEND GROUNDING CONNECTIONS AS REQUIRED BY UTILITY COMPANY.

FIRE STOPPING

A. PROVIDE FIRE STOPPING FOR PENETRATIONS BY CONDUIT OR CABLES AND OTHER EQUIPMENT THROUGH FIRE-RATED VERTICAL BARRIERS (WALLS AND PARTITIONS), HORIZONTAL BARRIERS (FLOOR/CEILING ASSEMBLIES) AND VERTICAL SHAFT WALLS AND PARTITIONS.

B. FIRESTOP SYSTEM INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF ATME E 814 OR UL 1479 TESTED ASSEMBLIES THAT PROVIDE A FIRE RATING EQUAL TO OR GREATER THAN THAT OF THE CONSTRUCTION BEING PENETRATED.

SEISMIC RESTRAINT

A. PROVIDE SEISMIC RESTRAINT FOR ELECTRICAL WORK AND SYSTEMS AND EQUIPMENT IN STRICT ACCORDANCE WITH THE APPLICABLE BUILDING CODE AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

B. SUBMIT ALL REQUIRED DETAILS TO THE AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL.

CUTTING & PATCHING

A. PRIOR TO CORE DRILLING OR SAW CUTTING OPERATIONS, CONTRACTOR SHALL X-RAY OR GROUND PENETRATING RADAR (GPR) THE EXISTING SLAB TO DETERMINE THE LOCATION OF ANY EXISTING UTILITIES, STRUCTURAL MEMBERS. ETC. COORDINATE ALL SCANNING, CUTTING AND CORE DRILLING OPERATIONS WITH GC AND LANDLORD PRIOR TO COMMENCEMENT OF WORK.

B. CORE-DRILL OR SAW-CUT EXISTING FLOORS, WALLS, ROOF, ETC., AS REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL WORK. EXISTING UTILITIES AND STRUCTURAL COMPONENTS, INCLUDING BUT NOT NECESSARILY LIMITED TO, COLUMNS, BEAMS, GIRDERS, PLATES OR JOISTS SHALL NOT BE CUT.

C. PATCH SURROUNDING AREAS FLUSH WITH ADJACENT SURFACES AND PREPARE TO RECEIVE SPECIFIED FINISHES.

D. PATCH AND REPAIR ROOF TO MATCH EXISTING ROOFING SYSTEM. ALL ROOF WORK SHALL BE PERFORMED TO MEET THE WARRANTY REQUIREMENTS OF THE EXISTING ROOFING SYSTEM.

GROUNDING

A. PROVIDE ELECTRICAL SYSTEM AND EQUIPMENT GROUNDING IN ACCORDANCE WITH APPLICABLE N.E.C. REQUIREMENTS.

B. THE METALLIC CONDUIT SYSTEM SHALL BE GROUNDED AND BONDED TO FORM AN EQUIPMENT GROUNDING CONDUCTOR.

C. PROVIDE AN INSULATED EQUIPMENT GROUND CONDUCTOR WITHIN ALL FEEDERS AND BRANCH CIRCUITS. THIS EQUIPMENT GROUND CONDUCTOR SHALL BE IN ADDITION TO THE EQUIPMENT GROUND CONDUCTOR FORMED BY THE METALLIC CONDUIT SYSTEM.

D. PROVIDE AN ISOLATED GROUND CONDUCTOR IN ADDITION TO THE EQUIPMENT GROUNDING CONDUCTOR IN SELECT BRANCH CIRCUITS AS NOTED ON THE DRAWINGS.

E. PROVIDE A #6 AWG GREEN INSULATED GROUNDING CONDUCTOR FROM THE GROUND BAR AT TELEPHONE TERMINAL BOARD TO THE ELECTRICAL SERVICE GROUND.

F. PROVIDE A COPPER GROUNDING BAR AT THE TELEPHONE TERMINAL BACKBOARD. GROUNDING BAR SHALL BE ¼ INCH X 4 INCHES X 12 INCHES, PRE-DRILLED FOR CONDUCTOR TERMINATIONS, WITH NON-METALLIC STAND-OFF BRACKETS WITH INSULATORS. CHATSWORTH PRODUCTS 10622-012 OR APPROVED EQUAL.

EQUIPMENT IDENTIFICATION

A. PROVIDE EQUIPMENT LABELS ON PANELBOARDS, DISCONNECT SWITCHES, CONTACTORS, TRANSFORMERS, CONTROLS, ETC. EQUIPMENT LABELS SHALL BE ENGRAVED PHENOLIC RESIN NAMEPLATES ATTACHED TO ENCLOSURE WITH MECHANICAL FASTENERS. SELF-ADHESIVE NAMEPLATES ARE NOT ACCEPTABLE. LETTERING SHALL BE 1/2" HIGH, BLACK TEXT ON WHITE BACKGROUND.

B. ENGRAVED NAMEPLATES ATTACHED TO COMPONENTS SHALL IDENTIFY THE EQUIPMENT DESIGNATION, NAME OF THE "UPSTREAM" POWER SOURCE (AS APPLICABLE), VOLTAGE AND PHASE.

C. THE COVERS OF ALL OUTLET AND JUNCTION BOXES INSTALLED ABOVE CEILINGS AND INSTALLED EXPOSED IN UNFINISHED SPACES SHALL BE LABELED TO IDENTIFY THE SERVING PANEL, VOLTAGE, PHASE AND CIRCUIT NUMBERS CONTAINED WITHIN THE BOX. LABEL SHALL BE LEGIBLY HANDWRITTEN WITH BLACK, FELT TIP PERMANENT MARKER.

D. THE COVER PLATES OF ALL WIRING DEVICES SHALL BE LABELED TO IDENTIFY THE SERVING PANEL AND THE CIRCUITS SERVING THE DEVICE. LABELS SHALL BE MACHINE PRINTED, BLACK TEXT ON A CLEAR, SELF ADHESIVE LABEL.

CONDUIT AND FITTINGS

A. ALL INTERIOR AND EXTERIOR CONDUITS SHALL BE INSTALLED AND SUPPORTED IN ACCORDANCE WITH N.E.C. REQUIREMENTS.

B. MINIMUM CONDUIT SIZE SHALL BE ¾" TRADE SIZE. SWITCH LEGS SHALL BE ½" TRADE SIZE.

C. WITHIN INTERIOR FINISHED SPACES, ALL CONDUIT SHALL BE INSTALLED CONCEALED WITHIN NEW AND EXISTING WALLS AND ABOVE NEW AND EXISTING CEILINGS.

D. CONDUIT INSTALLED WITHIN THE INTERIOR OF THE BUILDING SHALL BE GALVANIZED ELECTRICAL METALLIC TUBING (EMT). CONDUIT FITTINGS FOR INDOOR EMT CONDUITS SHALL BE CAST METAL, COMPRESSION TYPE.

E. EMT SHALL BE USED FOR INTERIOR FEEDERS AND BRANCH CIRCUITS INSTALLED EXPOSED IN UNFINISHED SPACES, CONCEALED ABOVE NEW OR EXISTING CEILINGS OR CONCEALED WITHIN EXISTING AND NEW INTERIOR PARTITIONS.

F. CONDUITS INSTALLED EXPOSED ON THE EXTERIOR OF THE BUILDING SHALL BE GALVANIZED RIGID STEEL. FITTINGS SHALL BE THREADED TYPE.

G. CONDUITS INSTALLED UNDER SLAB ON GRADE CONSTRUCTION SHALL BE RIGID NON-METALLIC CONDUIT (HDPE) SCHEDULE 40 PVC. RNC COMPLYING WITH NEMA TC 2 AND UL 651 UNLESS OTHERWISE INDICATED. FITTINGS FOR RIGID NON-METALLIC CONDUIT SHALL COMPLY WITH NEMA TC 3; MATCH TO CONDUIT TYPE AND MATERIAL.

H. PROVIDE CONDUIT EXPANSION FITTINGS IN ALL CONDUIT RUNS THAT EXTEND ACROSS BUILDING EXPANSION JOINTS AND WHERE MOVEMENT MAY BE ENCOUNTERED.

I. CONDUIT SHALL BE SUPPORTED FROM STRUCTURE ONLY.

J. PVC CONDUIT SHALL ONLY BE USED BELOW GRADE.

K. PROVIDE FLEXIBLE METAL CONDUIT FOR CONNECTIONS TO VIBRATING EQUIPMENT WITHIN INTERIOR DRY LOCATIONS. MAXIMUM CONDUIT LENGTH SHALL BE 36 INCHES.

L. PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT FOR CONNECTIONS TO VIBRATING EQUIPMENT IN WET OR OUTDOOR LOCATIONS. MAXIMUM CONDUIT LENGTH SHALL BE 36 INCHES.

M. PROVIDE FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS TO RECESSED LIGHT FIXTURES (FIXTURE WHIPS). MAXIMUM CONDUIT LENGTH SHALL BE 72 INCHES.

N. PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT FOR FINAL ELECTRICAL CONNECTIONS TO FOOD SERVICE EQUIPMENT.

O. CONDUITS THAT EXTEND UP TO THE ROOF LEVEL TO SERVE ROOF MOUNTED MECHANICAL EQUIPMENT INSTALLED ON A CURB SHALL BE ROUTED WITHIN THE EQUIPMENT CURB. COORDINATE ELECTRICAL WORK WITH MECHANICAL EQUIPMENT INSTALLER.

P. PROVIDE CONDUIT SEALING FITTINGS IN ALL CONDUITS THAT EXTEND FROM NON-REFRIGERATED SPACES TO REFRIGERATED SPACES PER NEC 300.7(A). PROVIDE EXPANSION JOINTS FOR CONDUIT AS REQUIRED TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION.

Q. ALL CONDUITS INSTALLED IN ASSOCIATION WITH THE WALK-IN COOLER FREEZER SHALL BE INSTALLED IN ACCORDANCE WITH THE WALK-IN MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS. COORDINATE ALL CONDUIT INSTALLATION WITH WALK-IN EQUIPMENT INSTALLER.

R. ACCEPTABLE MANUFACTURERS FOR GALVANIZED RIGID CONDUIT, EMT, FLEXIBLE METAL CONDUITS AND LIQUID-TIGHT FLEXIBLE METAL CONDUITS SHALL BE ALLIED, REPUBLIC, WHEATLAND, ELECTRI-FLEX AND ANACONDA.

S. ACCEPTABLE MANUFACTURERS FOR CONDUIT FITTINGS SHALL BE THOMAS AND BETTS OR APPROVED EQUAL.

CONDUCTORS

A. ALL CONDUCTORS SHALL BE SOFT DRAWN, ANNEALED COPPER, #12 AWG MINIMUM.

B. CONDUCTORS #12 AND #10 AWG SHALL BE SOLID; #8 AWG AND LARGER SHALL BE STRANDED.

C. THE USE OF ALUMINUM CONDUCTORS IS NOT ACCEPTABLE.

D. EXPOSED, INTERIOR FEEDERS: TYPE THHN-THWN, SINGLE CONDUCTORS IN CONDUIT.

E. FEEDERS INSTALLED CONCEALED IN CEILINGS, WALLS, PARTITIONS: TYPE THHN-THWN, SINGLE CONDUCTORS IN CONDUIT.

F. FEEDERS INSTALLED CONCEALED IN CONCRETE, BELOW SLABS-ON-GRADE AND UNDERGROUND: TYPE THHN-THWN, SINGLE CONDUCTORS IN PVC CONDUIT.

G. EXPOSED, INTERIOR, BRANCH CIRCUITS: TYPE THHN-THWN, SINGLE CONDUCTORS IN CONDUIT.

H. BRANCH CIRCUITS CONCEALED IN EXISTING AND NEW CEILINGS, WALLS, AND PARTITIONS: TYPE THHN-THWN, SINGLE CONDUCTORS IN CONDUIT.

I. BRANCH CIRCUITS CONCEALED BELOW SLABS-ON-GRADE, AND UNDERGROUND: TYPE THHN-THWN, SINGLE CONDUCTORS IN CONDUIT.

J. ACCEPTABLE MANUFACTURERS FOR CONDUCTORS: GENERAL CABLE COMPANY, CAROL, ANACONDA, ROME, SOUTHWIRE.

K. CLASS 1 CONTROL CIRCUITS: TYPE THHN-THWN, IN CONDUIT.

L. CLASS 2 CONTROL CIRCUITS: POWER-LIMITED PLENUM RATED CABLE, CONCEALED IN BUILDING FINISHES.

M. THE USE OF NON-METALLIC-SHEATHED CABLE (TYPE NM) AND ARMORED CABLE (TYPE AC OR BX) IS NOT ACCEPTABLE

N. WIRE CONNECTORS SHALL BE EQUAL TO SCOTCH LOCK FOR #8 AWG AND SMALLER, THOMAS AND BETTS LOCK-TITE FOR #6 AND LARGER.

O. PROVIDE #10 AWG CONDUCTORS FOR BRANCH CIRCUITS HAVING A CONDUCTOR LENGTH LONGER THAN 75 FEET.

P. SIZE OF CONDUCTORS AND CABLES INDICATED OR SPECIFIED ARE IN AMERICAN WIRE GAGE (AWG - BROWN AND SHARPE).

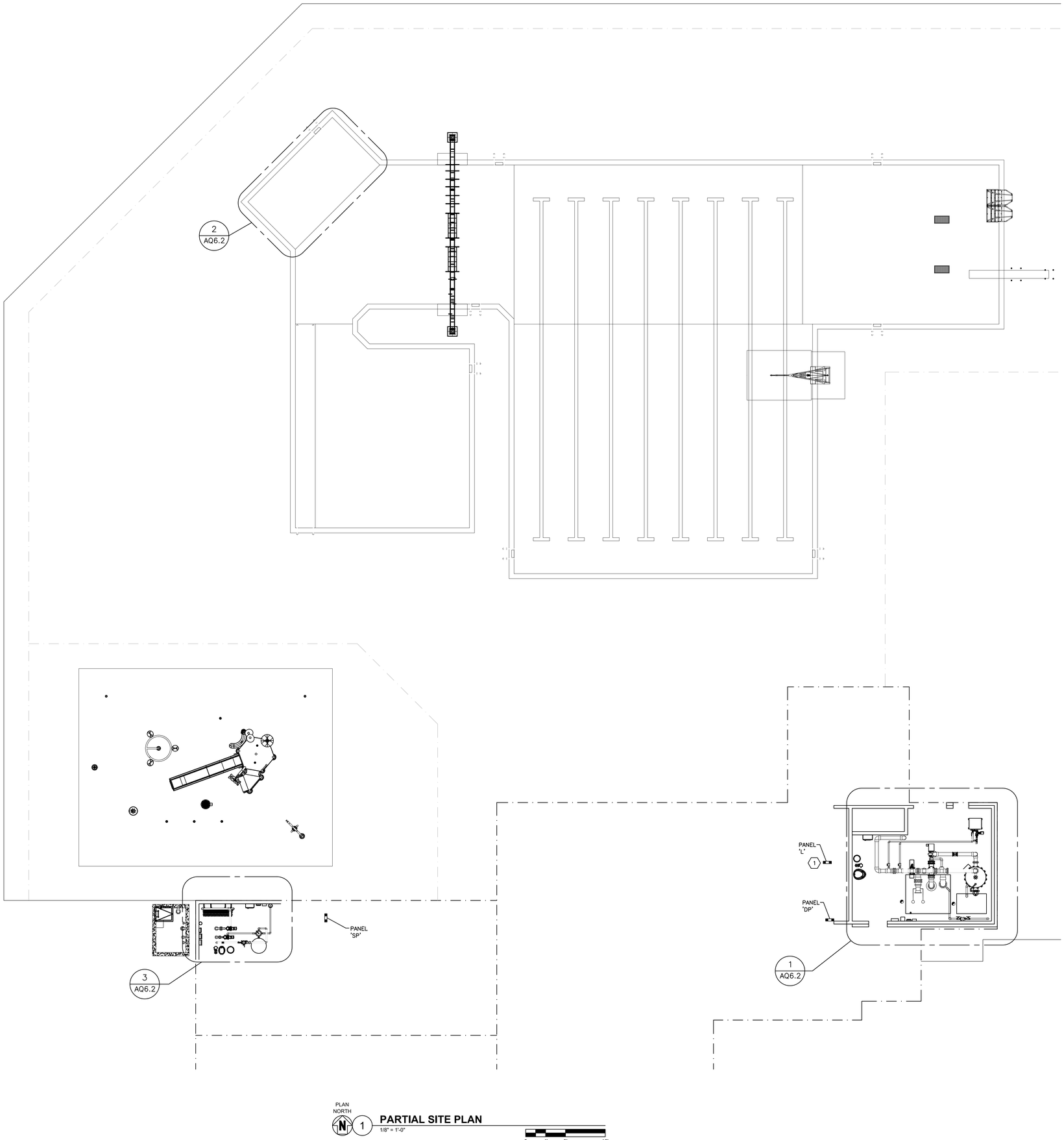
Q. INSTALL ALL WIRING IN APPROVED RACEWAY AND ENCLOSURES, EXCEPT WHERE SPECIFIED OR INDICATED, FOR LOW-VOLTAGE WIRING OR, WHERE TYPE MC CABLE IS INDICATED, SPECIFIED AS ACCEPTABLE, OR BOTH.

R. SUPPORT ALL CONDUCTORS AND CABLES IN VERTICAL INSTALLATIONS, AS REQUIRED BY NFPA-70, BY INSTALLING CABLE SUPPORTS OR PLUG-TYPE CONDUIT RISER SUPPORTS, OR WIRE-MESH SAFETY GRIPS.

S. INSTALL ALL CONDUCTORS AND CABLE IN RACEWAYS CONTINUOUS WITHOUT TAPS OR SPLICES. SPLICE OR TAP ONLY IN APPROVED BOXES AND ENCLOSURES WITH APPROVED SOLDERLESS CONNECTORS, OR CRIMP CONNECTORS AND TERMINAL BLOCKS FOR CONTROL WIRING, AND KEEP TO THE MINIMUM REQUIRED. INSULATE ALL SPLICES, TAPS, AND JOINTS AS REQUIRED BY CODE.

T. ALL MATERIALS USED TO TERMINATE, SPLICE OR TAP CONDUCTORS: DESIGNED, PROPERLY SIZED, AND UL LISTED FOR THE SPECIFIC APPLICATION AND CONDUCTORS INVOLVED, AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, USING THE MANUFACTURER'S RECOMMENDED TOOLS.

U. WHERE WIRING IS INDICATED AS INSTALLED, BUT THE CONNECTION IS INDICATED "FUTURE" OR "



PLAN NORTH

1 **PARTIAL SITE PLAN**
1/8" = 1'-0"

0 4' 8' 16'

ELECTRICAL KEYED NOTES
1 FIELD VERIFY LOCATION OF EXISTING PANEL 'L'

POOL BONDING REQUIREMENTS

1. WHERE BONDING CLAMPS ARE USED, THEY SHALL BE OF THE APPROVED TYPE.
2. BOND ALL METALLIC PARTS OF THE SPA STRUCTURE INCLUDING THE REINFORCING METAL OF THE POOL SHELL AND DECK
3. BOND ALL METAL FITTINGS WITHIN OR ATTACHED TO THE POOL STRUCTURE.
4. SEE POOL DRAWING AQ5.1 FOR BONDING DETAILS AND REQUIREMENTS.
5. BOND METAL PARTS OF ELECTRIC EQUIPMENT ASSOCIATED WITH THE POOL WATER CIRCULATING SYSTEM INCLUDING PUMP MOTORS.
6. BOND METAL PARTS OF EQUIPMENT ASSOCIATED WITH POOL COVERS.
7. BOND METAL SHEATHED CABLES AND RACEWAYS, METAL PIPING AND ALL FIXED METAL PARTS THAT ARE WITHIN 5 FEET HORIZONTALLY OF THE INSIDE WALLS OF THE POOL.
8. ALL PARTS LISTED ABOVE SHALL BE CONNECTED TO A COMMON BONDING GRID WITH A SOLID COPPER CONDUCTOR, INSULATED, COVERED, OR BARE, NOT SMALLER THAN NO. 8 ALL CONNECTIONS SHALL BE EXOTHERMIC WELDED OR PRESSURE WELDED OR CLAMPS THAT ARE SUITABLE FOR THE PURPOSE OF THE FOLLOWING MATERIAL: STAINLESS STEAL, BRASS, COPPER OR COPPER ALLOY.
9. THE FOLLOWING BONDING GRID SHALL BE PERMITTED TO BE OF THE FOLLOWING.
   - 9.1. STRUCTURAL REINFORCING RODS BONDED TOGETHER BY STEEL WIRED.
   - 9.2. THE WALL OF A BOLTED OR WELDED METAL POOL.
   - 9.3. SOLID COPPER CONDUCTOR, INSULATED, COVERED OR BARE NOT SMALLER THAN NO.8.
   - 9.4. RIGID METAL CONDUIT FOR INTERMEDIATE METAL CONDUIT OF BRASS
10. STRUCTURAL REINFORCING STEEL OR THE WALLS OF BOLTED OR WELDED METAL POOL STRUCTURES SHALL BE PERMITTED AS A COMMON BONDING GRID FOR NON-ELECTRICAL PARTS WHERE CONNECTIONS CAN BE MADE IN ACCORDANCE WITH NEC SECTION 250-8.
11. ELECTRICAL CONTRACTOR SHALL BOND ALL COMPONENTS IN ACCORDANCE WITH NEC SECTION 680.26.

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AUBURN MUNICIPAL POOL RENOVATIONS
1020 H STREET
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SEAL
PROFESSIONAL ELECTRICAL ENGINEER
BRIAN D. WOOD
E-19680
STATE OF NEBRASKA
9/24/26

PERMIT RELEASE
DATE: 09-24-26 BY: EDW

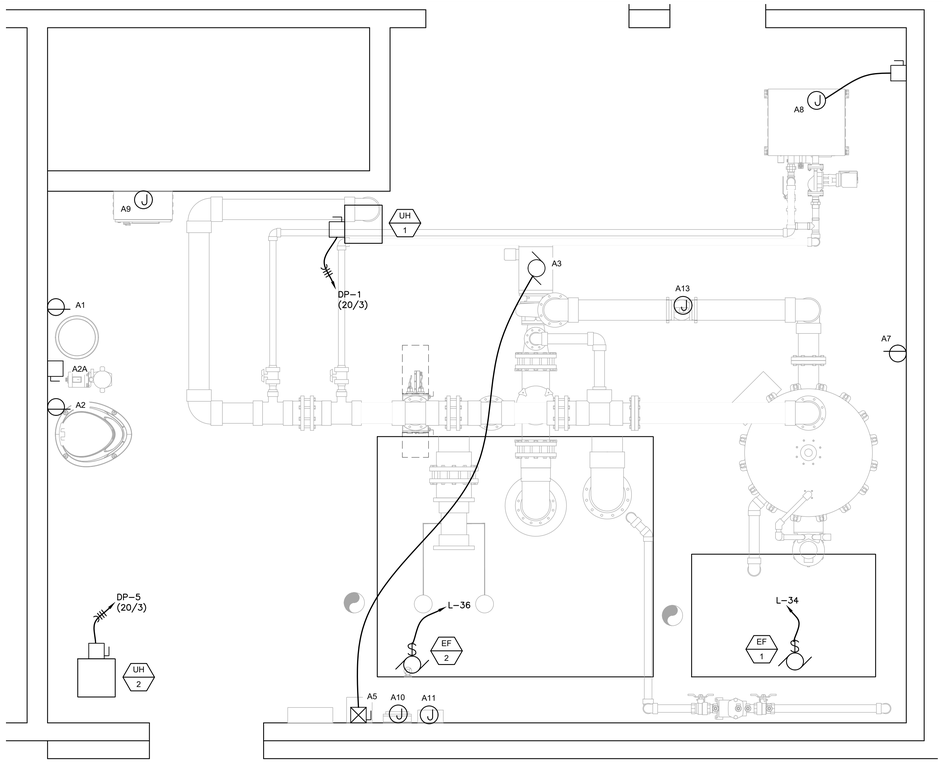
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PARTIAL ELECTRICAL SITE PLAN

SHEET: AQ6.1

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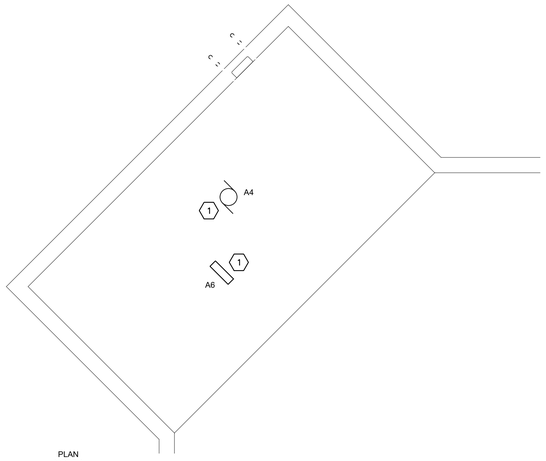


PLAN NORTH

1 POOL EQUIPMENT ROOM PLAN

1/2" = 1'-0"

0 1' 2' 4'

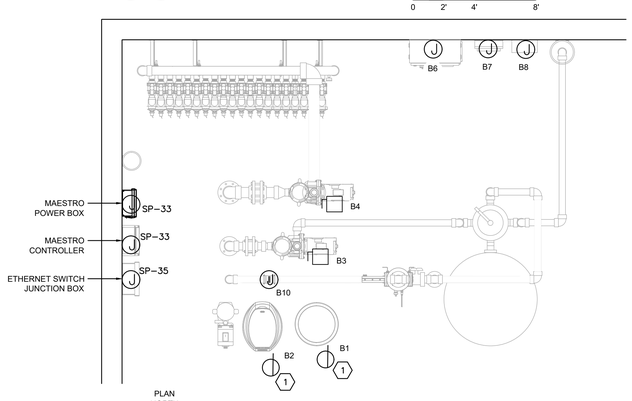


PLAN NORTH

2 ENLARGED WATERSLIDE PLAN

1/4" = 1'-0"

0 2' 4' 8'



PLAN NORTH

3 SPLASH PAD EQUIPMENT ROOM PLAN

1/2" = 1'-0"

0 1' 2' 4'

POOL/SLIDE ELECTRICAL CONNECTION SCHEDULE

XX	DESCRIPTION	LOCATION	LOAD VOLT	LOAD KW/HP	FED FROM PANEL	FED FROM CIRCUIT	O.C.P (A/P) SIZE/POLE	WIRING	CONNECTION	NOTES
A1	PH BUFFER FEED SYSTEMS	MECH ROOM	120/1	.2				2 #12,-1#12G, 3/4"C	⊖	1
A2	CHLORINE FEED SYSTEM	MECH ROOM	120/1	.5			20/1	2 #12,-1#12G, 3/4"C	⊖	1
A2A	CHLORINE FEED SYSTEM BOOSTER PUMP	MECH ROOM	120/1	1	L	31	20/1	2 #12,-1#12G, 3/4"C	□	
A3	POOL CIRCULATION PUMP	MECH ROOM	208/3	30HP	DP	2,4	110/3	3 #2,-1#6G, 1-1/2"C	□	2
A4	SLIDE PUMP	WATER SLIDE	208/3	15HP	DP	2	60/3	3 #3,-1#8G, 1-1/4"C	□	2
A5	CIRCULATION PUMP VFD	WATER SLIDE	208/3	30HP	DP	2	110/3	3 #2,-1#6G, 1-1/2"C	□	
A6	SLIDE PUMP VFD	MECH ROOM	208/3	15HP	DP	2	60/3	3 #3,-1#8G, 1-1/4"C	Ⓙ	
A7	FILTER AIR COMPRESSOR	MECH ROOM	120/1	1.8KW	L	38	20/1	2 #12,-1#12G, 3/4"C	⊖	
A8	HEATER	MECH ROOM	120/1	2.1	L	33	20/1	2 #12,-1#12G, 3/4"C	□	
A9	UV SYSTEM	MECH ROOM	208/1	2.1	L	30,32	40/2	2 #8,-1#8G, 3/4"C	□	
A10	CHEMICAL CONTROLLER	MECH ROOM	120/1	.1	L	35	20/1	2 #12,-1#12G, 3/4"C	Ⓙ	
A11	WATER LEVEL CONTROLLER	MECH ROOM	120/1	.1	L	37	20/1	2 #12,-1#12G, 3/4"C	Ⓙ	
A13	FLOW METER	MECH ROOM	24V	.1	L	39	20/1	2 #12,-1#12G, 3/4"C	Ⓙ	3

1. POWER PROVIDED BY CHEMICAL CONTROLLER. CONNECT COMPLETE AND READY FOR OPERATION.
2. POWER PROVIDED BY VFD CONTROLLER. CONNECT COMPLETE AND READY FOR OPERATION.
3. POWER PROVIDED BY JANDY WL CONTROLLER. CONNECT COMPLETE AND READY FOR OPERATION.

SPLASH PAD ELECTRICAL CONNECTION SCHEDULE

XX	DESCRIPTION	LOCATION	LOAD VOLT	LOAD KW/HP	FED FROM PANEL	FED FROM CIRCUIT	O.C.P (A/P) SIZE/POLE	WIRING	CONNECTION	NOTES
B1	PH BUFFER FEED SYSTEMS	MECH ROOM	120/1	.2				2 #12,-1#12G, 3/4"C	⊖	1
B2	CHLORINE FEED SYSTEM	MECH ROOM	120/1	.5			20/1	2 #12,-1#12G, 3/4"C	⊖	1
B2A	CHLORINE FEED SYSTEM BOOSTER PUMP	MECH ROOM	120/1	1	SP	22	20/1	2 #12,-1#12G, 3/4"C	□	
B3	POOL CIRCULATION PUMP	MECH ROOM	240/1	3HP	SP	28,30	25/2	2 #10,-1#10G, 3/4"C	□	2
B4	FEATURE PUMP	MECH ROOM	240/1	5HP	SP	32,34	35/2	2 #8,-1#10G, 3/4"C	□	2
B6	UV SYSTEM	MECH ROOM	240/1	1.5KW	SP	2,4	40/2	2 #8,-1#10G, 3/4"C	□	
B7	CHEMICAL CONTROLLER	MECH ROOM	120/1	.1	A	7	20/1	2 #12,-1#12G, 3/4"C	Ⓙ	
B8	WATER LEVEL CONTROLLER	MECH ROOM	120/1	.1	A	7	20/1	2 #12,-1#12G, 3/4"C	Ⓙ	
B10	FLOW METER	MECH ROOM	24V	2.1	A	7	20/1	2 #12,-1#12G, 3/4"C	Ⓙ	3

1. POWER PROVIDED BY CHEMICAL CONTROLLER. CONNECT COMPLETE AND READY FOR OPERATION.
2. POWER PROVIDED BY VFD CONTROLLER. CONNECT COMPLETE AND READY FOR OPERATION.
3. POWER PROVIDED BY JANDY WL CONTROLLER. CONNECT COMPLETE AND READY FOR OPERATION.

CORROSIVE ENVIRONMENT (POOL) SPECS FOR DRAWINGS

ELECTRICAL WORK IN CORROSIVE ENVIRONMENTS.

A. THE POOL EQUIPMENT ROOM SHALL BE CONSIDERED A CORROSIVE ENVIRONMENT REGARDING THE USE OF MATERIALS WITHIN THE SPACE FOR THE INSTALLATION OF THE ELECTRICAL WORK. REFER TO N.E.C. ARTICLE 680.14.

B. CONDUITS INSTALLED WITHIN THE CORROSIVE ENVIRONMENT OF THE POOL EQUIPMENT ROOM SHALL BE EITHER GALVANIZED RIGID STEEL, SCHEDULE 80 PVC OR REINFORCED THERMOSETTING RESIN CONDUIT.

C. CONDUIT FITTINGS WITHIN THE CORROSIVE ENVIRONMENT SHALL BE COMPATIBLE WITH THE ENVIRONMENT, AND THE CONDUIT MATERIALS BEING INSTALLED. FITTINGS FOR GALVANIZED RIGID SHEET SHALL BE THREADED.

D. DISCONNECT SWITCHES INSTALLED WITHIN CORROSIVE ENVIRONMENTS SHALL BE NEMA 4X STAINLESS STEEL, FUSIBLE OR NON-FUSIBLE AS CALLED FOR ON THE DRAWINGS.

E. EQUIPMENT ENCLOSURE INSTALLED WITHIN CORROSIVE ENVIRONMENTS SHALL BE NEMA 4X STAINLESS STEEL.

F. OUTLETS AND JUNCTION BOXES SHALL BE SUITABLE FOR USE WITHIN CORROSIVE ENVIRONMENTS.

G. COMPONENTS FOR THE SUPPORT OF ELECTRICAL WORK AND THE ASSOCIATED HARDWARE USED IN CONJUNCTION WITH THE SUPPORT COMPONENTS SHALL BE SUITABLE FOR USE WITHIN CORROSIVE ENVIRONMENTS.

POWER PLAN GENERAL ELECTRICAL NOTES

1. VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO BID. NOTIFY OWNER OF ANY DISCREPANCIES. IF ACCEPTABLE TO OWNER'S REPRESENTATIVE, EXISTING EQUIPMENT MAY BE RE-USED. IF NOT ACCEPTABLE, FURNISH AND INSTALL NEW.
2. ALL RECEPTACLES, DATA AND TELEPHONE OUTLETS ARE TO BE MOUNTED AT +18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
3. PRIOR TO CONNECTION EC SHALL VERIFY THE VOLTAGE AND AMPERAGE REQUIREMENTS OF ALL EQUIPMENT DELIVERED TO THE SITE. EC SHALL NOTIFY OWNER OF ANY DIFFERENCE.
4. EC TO VERIFY PLUG TYPE, AMPERAGE, VOLTAGE, AND LOCATION PRIOR TO BID AND ROUGH IN.
5. EC TO VERIFY ALL POWER REQUIREMENTS WITH EQUIPMENT MANUFACTURER. PROVIDE HACR BREAKERS AS REQUIRED.

POOL BONDING REQUIREMENTS

1. WHERE BONDING CLAMPS ARE USED, THEY SHALL BE OF THE APPROVED TYPE.
2. BOND ALL METALLIC PARTS OF THE SPA STRUCTURE INCLUDING THE REINFORCING METAL OF THE POOL SHELL AND DECK
3. BOND ALL METAL FITTINGS WITHIN OR ATTACHED TO THE POOL STRUCTURE.
4. SEE POOL DRAWING AQ5.1 FOR BONDING DETAILS AND REQUIREMENTS.
5. BOND METAL PARTS OF ELECTRIC EQUIPMENT ASSOCIATED WITH THE POOL WATER CIRCULATING SYSTEM INCLUDING PUMP MOTORS.
6. BOND METAL PARTS OF EQUIPMENT ASSOCIATED WITH POOL COVERS.
7. BOND METAL SHEATHED CABLES AND RACEWAYS, METAL PIPING AND ALL FIXED METAL PARTS THAT ARE WITHIN 5 FEET HORIZONTALLY OF THE INSIDE WALLS OF THE POOL.
8. ALL PARTS LISTED ABOVE SHALL BE CONNECTED TO A COMMON BONDING GRID WITH A SOLID COPPER CONDUCTOR, INSULATED, COVERED, OR BARE, NOT SMALLER THAN NO. 8 ALL CONNECTIONS SHALL BE EXOTHERMIC WELDED OR PRESSURE WELDED OR CLAMPS THAT ARE SUITABLE FOR THE PURPOSE OF THE FOLLOWING MATERIAL: STAINLESS STEAL, BRASS, COPPER OR COPPER ALLOY.
9. THE FOLLOWING BONDING GRID SHALL BE PERMITTED TO BE OF THE FOLLOWING.
   - 9.1. STRUCTURAL REINFORCING RODS BONDED TOGETHER BY STEEL WIRED.
   - 9.2. THE WALL OF A BOLTED OR WELDED METAL POOL.
   - 9.3. SOLID COPPER CONDUCTOR, INSULATED, COVERED OR BARE NOT SMALLER THAN NO.8.
   - 9.4. RIGID METAL CONDUIT FOR INTERMEDIATE METAL CONDUIT OF BRASS
10. STRUCTURAL REINFORCING STEEL OR THE WALLS OF BOLTED OR WELDED METAL POOL STRUCTURES SHALL BE PERMITTED AS A COMMON BONDING GRID FOR NON-ELECTRICAL PARTS WHERE CONNECTIONS CAN BE MADE IN ACCORDANCE WITH NEC SECTION 250-8.
11. ELECTRICAL CONTRACTOR SHALL BOND ALL COMPONENTS IN ACCORDANCE WITH NEC SECTION 680.26.

ELECTRICAL KEYED NOTES

(1) JUNCTION BOX BY E.C. FLUSH IN CEILING w/"so CORD & CAP DOWN TO +36"AFF. FURNISH AND INSTALL SPRING/FLEX TENSION ADAPTOR AT JUNCTION BOX. PROVIDE 2 #12, #12G. TERMINATE WITH 5-20R RECEPTACLE ON END.

EQUIPMENT CONNECTIONS

XX SEE CONNECTION SCHEDULE ON THIS SHEET FOR MORE INFORMATION.

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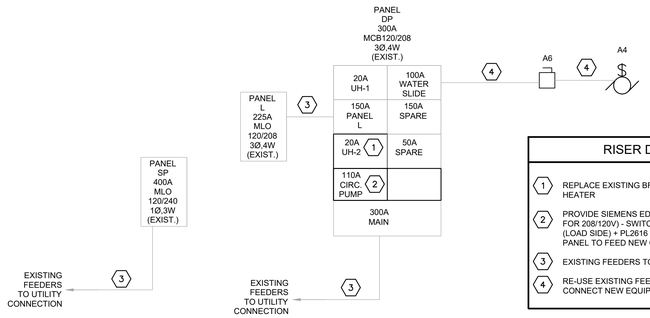
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POWER PLANS

SHEET: AQ6.2

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RISER DIAGRAM KEYED NOTES

1. REPLACE EXISTING BREAKER WITH 20A/3P BREAKER TO FEED NEW UNIT HEATER
2. PROVIDE SIEMENS ED43B110 (110A, 3-POLE, 480V AC/250V DC - SUITABLE FOR 208/120V) - SWITCHBOARD MOUNTING KIT: PC2657 (LINE SIDE) + PC2658 (LOAD SIDE) + PL2616 (STEEL MOUNTING PLATE) IN EXISTING DISTRIBUTION PANEL TO FEED NEW CIRCULATION PUMP.
3. EXISTING FEEDERS TO REMAIN.
4. RE-USE EXISTING FEEDERS SERVING NEW WATER SLIDE VFD AND PUMP. CONNECT NEW EQUIPMENT COMPLETE AND READY FOR OPERATION.

1 ELECTRICAL RISER DIAGRAM

NO SCALE

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
AC	ABOVE COUNTER
CLG	CEILING MOUNTED
GC	GENERAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
WP	WEATHERPROOF
NL	NIGHT LIGHT (CONNECT TO UNSWITCHED LEG OF CIRCUIT NOTED)
GFI	GROUND FAULT CURRENT INTERRUPTER PROTECTED DEVICE
ST	SHUNT TRIP CIRCUIT
AFF	ABOVE FINISHED FLOOR
UNO	UNLESS NOTED OTHERWISE
TTB	TELEPHONE TERMINAL BOARD
PROVIDE	FURNISH AND INSTALL COMPLETE
J	JUNCTION BOX, MOUNTING HEIGHT
	20A, 1P, 125V, GROUNDING TYPE DUPLEX RECEPTACLE (+18" AFF UNO)
	20A, 1P, 125V, GROUNDING TYPE DOUBLE DUPLEX RECEPTACLE
GFCI	20A, 1P, 125V, GFCI TYPE DUPLEX RECEPTACLE
	SPECIAL USE RECEPTACLE, COORDINATE WITH EQUIPMENT SUPPLIER
EF	CEILING MOUNTED EXHAUST FAN WITH MANUAL DISCONNECT
30/NF/3	DISCONNECT SWITCH: 30 AMP, NON-FUSED, 3 POLE
$	LIGHT SWITCH
$3	LIGHT SWITCH (3 WAY)
$4	LIGHT SWITCH (4 WAY)
$OS	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH AT 3'-6" AFF TO CENTERLINE (WATT STOPPER #DW100-WH OR EQUAL)
DS	CEILING MOUNTED DAYLIGHT SENSOR SWITCH
OS	(WATT STOPPER #DT-355 OR EQUAL)
SD	SMOKE/DUCT DETECTOR - COORDINATE WITH MECHANICAL CONTRACTOR/PLANS
	DIMMER SWITCH: LUTRON NOVA SERIES DIMMERS COMPATIBLE WITH LOW VOLTAGE LIGHTING FIXTURES AND RATED FOR LOAD NOTED IN PANEL SCHEDULE. REFER TO LOADS AT PANELBOARD SCHEDULE. MOUNTING HEIGHT AS INDICATED PER PLAN.
	COMMUNICATIONS JUNCTION BOX FOR DATA/COMM. DEVICE PLATE. EC TO ROUTE 3/4" CONDUIT WITH PULL STRING TO 6" ABOVE ACCESSIBLE CEILING AND BEND AT 90° TOWARDS TTB. EC TO PROVIDE PLASTIC BUSHING ON END OF CONDUIT.
	CONDUIT RUN CONCEALED IN CEILING OR WALL. NUMBER OF HASH MARKS INDICATE NUMBER OF #12 WIRES WHEN MORE THAN TWO ARE REQUIRED UNLESS NOTED OTHERWISE. ALL CIRCUITS SHALL INCLUDE EQUIPMENT GROUND SIZED PER NEC. HASH MARK AHEAD OF NEUTRAL INDICATES UNSWITCHED LEG. CURLED HASH MARK INDICATES DEDICATED GROUND WIRE REQUIRED.
+12"	12" ABOVE FINISHED FLOOR TO CENTERLINE
	PANELBOARD
F Sa	LIGHTING FIXTURE SWITCHING DESIGNATION - LETTER 'F' INDICATES THE FIXTURE TYPE (SEE FIXTURE SCHEDULE) THE NUMBER '5' INDICATES THE CIRCUIT IN THE PANEL NOTED AND THE LOWER CASE LETTER 'a' INDICATES THE SWITCH LEG TO CONNECT THE FIXTURE TO.
	PANELBOARD
	MULTI-COMPARTMENT FLOOR BOX - BOX SHALL BE STEEL, FULLY ADJUSTABLE AFTER THE POUR.
	CONDUIT INSTALLED BELOW FLOOR SLAB

MOUNT: SURFACE **120/208** **3-PHASE, 4W** | **PANEL** DP | **CAPACITY:** 400A | **INT CAP:** 22KA
LOCATION: ELEC ROOM | **LUGS:** 300A MCB | **DEMAND LOAD:** 286A | **AV. FAULT:** 11.3KA

NOTES	CKT	LTG	REC	HVAC	MISC	KIT	DESCRIPTION	AMP	POLE	Φ	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	KIT	CKT	NOTES
				1.66						A							5.80			
	1			1.67			UH-2	20	3	B	100	3	WATER SLIDE PUMP				5.80		2	
				1.66						C							5.80			
		2.70	2.00	3.20	6.80	0.00				A										
	3	3.90	2.80	4.60	3.10	0.00	PANEL L	150	3	B	150	3	SPARE						4	
		1.60	2.40	4.00	4.80	0.00				C										
				1.66						A										
	5			1.67			UH-1	20	3	B	50	3	SPARE						6	
				1.66						C										
				10.60						A										
	7			10.60			CIRCULATION PUMP	110	3	B									8	
				10.60						C										

PHASE BALANCE			LOAD TYPE	CONNECTED	DEMAND	DEMAND FORMULA	TOTAL LOAD	
			LIGHTING	8.2 KVA	10.3 KVA	LOAD X 125% NEC 210.19 CONTINUOUS	CONNECTED	DEMAND
Φ	LOAD	%	RECEPTACLE	7.2 KVA	7.2 KVA	10KVA + 50% REMAINDER NEC 220.44	101.1 KVA	103.1KVA
A	34.4 KVA	34%	HVAC	53.6 KVA	53.6 KVA	LOAD X 100% (USED MCA IN CALCULATION)	280.6A	286.3A
B	34.1 KVA	34%	MISC	32.1 KVA	32.1 KVA	LOAD X 100% NEC 210.19 NON-CONT.		
C	32.5 KVA	32%	KIT	0.0 KVA	0.0 KVA	65% PER NEC TABLE 220.56		

CASE Engineering Inc.

NOTES:
A.
B.
C.

MOUNT: SURFACE **120/240** **1-PHASE, 3W** | **PANEL** SP | **CAPACITY:** 400A | **INT CAP:** EXISTING
LOCATION: ELEC ROOM | **LUGS:** 400A MCB | **DEMAND LOAD:** 210A | **AV. FAULT:** 11.3KA

NOTES	CKT	LTG	REC	HVAC	MISC	KIT	DESCRIPTION	AMP	POLE	Φ	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	KIT	CKT	NOTES
	1	0.50					EAST LIGHTS	20	1	A	30	2	BATHROOM HEATER			1.00			2	
	3	0.50					WEST LIGHTS	20	1	B						1.00			4	
	5	0.50					CANOPY LIGHTS	20	1	A	20	2	OUTLET BY BOX		0.80				6	
	7	0.50					SOUTH WALL PACKS	20	1	B					0.80				8	
	9		0.20				S. BATH OUTLET	20	1	A	80	2	S.W. E.H 2			6.00			10	
	11		0.20				W. BATH OUTLET	20	1	B						6.00			12	
	13		0.20				S.E. OUTLETS	20	1	A	80	2	N.E. E.H 3			6.00			14	
	15		0.20				EAST OUTLETS	20	1	B						6.00			16	
	17		0.20				NORTH OUTLETS	20	1	A	20	1	N GARAGE DOOR				1.00		18	
	19		0.20				NORTHWEST OUTLETS	20	1	B	20	1	WATER HEATER			1.00			20	
	21		0.20				WEST OULTETS	20	1	A	20	1	B2A CHLORINE BOOSTER PUMP				1.00		22	
	23		0.20				S.W. OUTLETS	20	1	B	20	1	B7 CHEMICAL CONTROLLER				0.50		24	
	25		1.00				OUTSIDE 240V OUTLET	20	2	A	20	1	B8 WATER LEVEL CONTROLLER				0.50		26	
	27		1.00							B							1.50		28	
	29						SPARE	20	1	A	25	2	B3 CIRCULATION PUMP				1.50		30	
	31				0.80		SOUTH GARAGE DOOR	20	1	B	35	2	B4 FEATURE PUMP				3.20		32	
	33				0.50		MAESTRO POWER	20	1	A							3.20		34	
	35				0.50		ENTERNET	20	1	B	35	2	B6 UV SYSTEM				0.75		36	
	37						SPARE	20	1	A							0.75		38	
	39						SPARE	20	1	B	20	1	B10 FLOW METER				0.10		40	
	41						SPARE	20	1	A	20	1	SPACE						42	

PHASE BALANCE			LOAD TYPE	CONNECTED	DEMAND	DEMAND FORMULA	TOTAL LOAD	
			LIGHTING	2.0 KVA	2.5 KVA	LOAD X 125% NEC 210.19 CONTINUOUS	CONNECTED	DEMAND
Φ	LOAD	%	RECEPTACLE	5.2 KVA	5.2 KVA	10KVA + 50% REMAINDER NEC 220.44	50.0 KVA	50.5KVA
A	25.1 KVA	33%	HVAC	27.0 KVA	27.0 KVA	LOAD X 100% (USED MCA IN CALCULATION)	208.3A	210.4A
B	25.0 KVA	33%	MISC	15.8 KVA	15.8 KVA	LOAD X 100% NEC 210.19 NON-CONT.		
C	25.1 KVA	33%	KIT	0.0 KVA	0.0 KVA	65% PER NEC TABLE 220.56		

CASE Engineering Inc.

NOTES:
A. CIRCUIT BREAKER GFCI - INDICATES 5mA TRIP GFCI TYPE CIRCUIT BREAKER.
B.
C.

MOUNT: SURFACE **120/208** **3-PHASE, 4W** | **PANEL** L | **CAPACITY:** 225A | **INT CAP:** EXISTING
LOCATION: ELEC ROOM | **LUGS:** 225A MLO | **DEMAND LOAD:** 122A | **AV. FAULT:** 11.3KA

NOTES	CKT	LTG	REC	HVAC	MISC	KIT	DESCRIPTION	AMP	POLE	Φ	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	KIT	CKT	NOTES
	1	0.30					LIGHTS	20	1	A	20	1	LIGHTS	0.80					2	
	3	0.80					LIGHTS	20	1	B	20	1	LIGHTS	0.80					4	
	5	0.80					LIGHTS	20	1	C	20	2	LIGHTS	0.80					6	
	7	0.80					LIGHTS	20	2	A				0.80					8	
	9	0.80								B	20	1	RECEPTACLES		0.80				10	
	11		0.20				RECEPTACLES	20	1	C	20	1	RECEPTACLES		0.80				12	
	13		0.20				RECEPTACLES	20	1	A	20	1	RECEPTACLES		0.80				14	
	15		1.00				RECEPTACLES	20	1	B	20	1	RECEPTACLES		1.00				16	
	17		0.40				RECEPTACLES	20	1	C	20	1	RECEPTACLES		1.00				18	
	19			0.60			UH-1	20	1	A	20	1	RECEPTACLES		1.00				20	
	21			0.60			UH-1	20	1	B	20	1	F-1			1.80			22	
	23			1.80			F-3	20	1	C	20	1	F-2			1.80			24	
	25			2.20			CU-1	40	2	A	20	1	RCP-1			0.40			26	
	27			2.20						B	20	1	LIGHTS	1.50					28	
	29			0.40			EF-3	20	1	C	40	2	UV SYSTEM				3.30		30	
	31				1.50		A2A CHLORINE BOOSTER PUMP	20	1	A							3.30		32	
	33				2.10		A8 HEATER	20	1	B	20	1	EF-1				0.50		34	
	35				1.00		A10 CHEMICAL CONTROLLER	20	1	C	20	1	EF-2				0.50		36	
	37				0.50		A11 WATER LEVEL CONTROLLER	20	1	A	20	1	A7 AIR COMPRESSOR				1.50		38	
	39				0.50		A13 FLOW METER	20	1	B	20	1	SPARE						40	
	41						SPARE	20	1	C	20	1	SPARE						42	

PHASE BALANCE			LOAD TYPE	CONNECTED	DEMAND	DEMAND FORMULA	TOTAL LOAD	
			LIGHTING	8.2 KVA	10.3 KVA	LOAD X 125% NEC 210.19 CONTINUOUS	CONNECTED	DEMAND
Φ	LOAD	%	RECEPTACLE	7.2 KVA	7.2 KVA	10KVA + 50% REMAINDER NEC 220.44	41.9 KVA	44.0KVA
A	14.7 KVA	35%	HVAC	11.8 KVA	11.8 KVA	LOAD X 100% (USED MCA IN CALCULATION)	116.3A	122.0A
B	14.4 KVA	34%	MISC	14.7 KVA	14.7 KVA	LOAD X 100% NEC 210.19 NON-CONT.		
C	12.8 KVA	31%	KIT	0.0 KVA	0.0 KVA	65% PER NEC TABLE 220.56		

CASE Engineering Inc.

NOTES:
A. CIRCUIT BREAKER GFCI - INDICATES 5mA TRIP GFCI TYPE CIRCUIT BREAKER.
B.
C.

THE DESIGN AND DETAILS SHOWN ON THIS PAGE ARE THE PROPERTY OF WESTPORT POOLS, AND THE INFORMATION IS TO REMAIN WITHIN THE CONFINES OF WESTPORT POOLS, INC.

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PROFESSIONAL ELECTRICAL ENGINEER
BRIAN D. WOOD
E-19680
STATE OF NEBRASKA
9/24/26

PERMIT RELEASE
DATE: 09-24-26 BY: EDW

CONSTRUCTION RELEASE
DATE: BY:

REV	DATE:	COMMENT:

ELECTRICAL SCHEDULES

SHEET: AQ6.3