ADDENDUM NO. 1

January 11, 2023

The Riviera Club Aquatics Center
5640 North Illinois Street
Indianapolis, IN 46208

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications and the Drawings dated December 5th, 2022, by Schmidt Associates, Inc. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 1-1 through ADD 1-1 Specification Section – 01 23 00 Alternates, and attached Schmidt Associates Addendum No. 1 Dated January 5, 2023, Consisting of 45 pages, Specification Sections: 096813 – Tile Carpeting, 098413 – Fixed Sound Absorptive Panels, 102600 – Wall and Door Protection, 233600 – Air Terminal Units, 233720 – External Louvers, 333200.99 – Wastewater Utility Pumping Stations, Addendum Drawings: G101, CG101, CU101, CU504, SF1A1, SF1AL, S-402, S-413, AC1A1, IN1A1, AQS100, AQS401, AQS402, M101, M601, P100, P101, P501, P601, P901, P902, P903, E000, E101, E201, E301, E500, E501, and E901.

A. SPECIFICATION SECTION 01 23 00 Alternates

A. Alternate NO 1 – Tile at Restrooms
   a. Base Bid: Base Bid: Provide resinous flooring and base in Member, Youth and Family Restrooms and Life Guard Room as described in the I-Series Drawings and spec section 096723.17.
   b. Alternate Bid: Provide Porcelain tile flooring and base in Member, Youth and Family Restrooms as described in the I-Series Drawings and spec section 093000.

D. Alternate NO 4 – Brush-Finished Concrete Pool Deck
   a. Base Bid: Provide Porcelain Mosaic Tile as described in the I-Series Drawings and Specifications
   b. Alternate Bid: Provide Brushed-Finished Concrete Floor and No Wall Base

ADDENDUM NO. 1
JANUARY 5, 2023

PREPARED BY SCHMIDT ASSOCIATES FOR:
RIVIERA CLUB AQUATIC CENTER
THE RIVIERA CLUB

This Addendum consists of 3 Addendum pages and 42 attachment pages totaling 45 pages.

Acknowledge receipt of this Addendum by inserting its number on the Bid Form. Failure to do so may subject the Bid to disqualification. This Addendum is part of the Contract Documents.

Bidder is encouraged to verify with reprographer of record all Addenda issued (do not rely exclusively on third party plan room services).

PART 1 - CHANGES TO PRIOR ADDENDA (NOT APPLICABLE)

PART 2 - CHANGES TO THE PROJECT MANUAL

Modifications described herein shall be incorporated in the Project Manual. All other Work shall remain unchanged.

2.1 DIVISION 09 – FINISHES

A. **Section 096813 "TILE CARPETING"**

1. DELETE AND REPLACE Subparagraph 2.1.A.1. in its entirety and replace with the following:
"1. Philadelphia Commercial
   a. Color: Focue 87400.
   b. Pattern: Immerse.
   c. Size: 24 by 24 inches.
   d. Installation Pattern: Quarter Turn.
   e. Source: Greg Loeflller; greg.loeffler@shawinc.com; 317-695-8193."

B. **Section 098413** "**FIXED SOUND-ABSORPTIVE PANELS**"

1. ADD Subparagraph 2.2.A.5. as follows:

"5. Sound Seal Inc."

2.2 DIVISION 10 – SPECIALTIES

A. **Section 102600 "WALL AND DOOR PROTECTION"**

1. DELETE AND REPLACE Subparagraph 2.2.A.3. as follows:

   "3. Sheet Thickness: 0.040 inch."

2.3 DIVISION 23 - HEATING, VENTILATING, AND AIR-CONDITIONING(HVAC)

A. **Section 233600 "AIR TERMINAL UNITS"**

1. ADD Subparagraph 2.2.A.1.g. as follows:

   "g. Krueger."

B. **Section 233720 "EXTERNAL LOUVERS"**

1. ADD Subparagraph 2.3.A.1.j. as follows:

   "j. POTTORFF."

2.4 DIVISION 33 - UTILITIES

A. **Section 333200.99 "WATEWATER UTILITY PUMPING STATIONS"**

1. ADD Section 333200.99 in its entirety per the attached.

PART 3 - CHANGES TO THE DRAWINGS

Modifications described herein shall be incorporated in the Drawings. All other Work shall remain un-changed.

3.1 DRAWING SHEETS: ADDITIONS, DELETIONS AND REPLACEMENTS

DRAWING NO.	INDICATE ACTION: REPLACE (R), ADD (A), DELETE (D)
G-SERIES DRAWINGS	
G-101	DELETE AND REPLACE
C-SERIES DRAWINGS	
CG101	DELETE AND REPLACE
CU101	DELETE AND REPLACE
CU504	DELETE AND REPLACE
S-SERIES DRAWINGS	
SF1A1	DELETE AND REPLACE
SF1AL	DELETE AND REPLACE
S-402	ADD
S-413	DELETE AND REPLACE
A-SERIES DRAWINGS	
AC1A1	DELETE AND REPLACE

I-SERIES DRAWINGS		
	IN1A1	DELETE AND REPLACE
AQ-SERIES DRAWINGS		
	AQS100	DELETE AND REPLACE
	AQS401	DELETE AND REPLACE
	AQS402	DELETE AND REPLACE
M-SERIES DRAWINGS		
	M101	DELETE AND REPLACE
	M601	DELETE AND REPLACE
P-SERIES DRAWINGS		
	P100	DELETE AND REPLACE
	P101	DELETE AND REPLACE
	P501	DELETE AND REPLACE
	P601	DELETE AND REPLACE
	P901	ADD
	P902	ADD
	P903	ADD
E-SERIES DRAWINGS		
	E000	DELETE AND REPLACE
	E101	ADD
	E201	DELETE AND REPLACE
	E301	DELETE AND REPLACE
	E500	DELETE AND REPLACE
	E501	DELETE AND REPLACE
	E901	DELETE AND REPLACE

END OF ADDENDUM 1

SECTION 333200.99 -WASTEWATER UTILITY PUMPING STATIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes:

1. Site assembled and tested precast wastewater utility pumping stations, including:

a. Precast concrete wet-well and valve vault.
b. Pumps and mountings.
c. Control panels.
d. Piping integral to pumping station.

1.3 RELATED SECTIONS

A. Division 22 Section "Facility Sanitary Sewers" for piping and other components of site sanitary sewer system connecting to wastewater utility pumping stations.

B. Division 26 sections for electrical panels, power conductors and conduit, grounding and bonding, and related components for electrical wiring service for wastewater utility pumping stations.

C. Division 32 sections for fence, enclosure walls, gates, ground cover materials, paving, and other site improvements related to wastewater utility pumping stations.

D. Division 33 sections for piping and other components of utility sanitary sewer system connecting to wastewater utility pumping stations.

1.4 DEFINITIONS

A. NPCA: National Precast Concrete Association.

1.5 REFERENCES

A. The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

B. ACI International (ACI):

1. ACI 318/318R Building Code Requirements for Structural Concrete and Commentary

C. American Association of State Highway and Transportation Officials (AASHTO):

1. AASHTO H 20 LFRD Bridge Design Specifications

D. American Society of Mechanical Engineers (ASME):

1. ASME B16.12 (1998) Cast Iron Threaded Drainage Fittings
2. ASME B16.1 (1998) Cast Iron Pipe Flanges and Flanged Fittings
3. ASME B16.21 (1992) Nonmetallic Flat Gaskets for Pipe Flanges
4. ASME B18.2.1 (1996) Square and Hex Bolts and Screws, Inch Series
5. ASME A1l2.3.1 (2007) Stainless Steel Drainage Systems for Sanitary DWV, Storm, and Vacuum Applications, Above- and Below Ground

E. American Water Works Association (AWWA):

1. AWWA C151/A21.51 (2002) Ductile-Iron Pipe, Centrifugally Cast, for Water or Other Liquids
2. AWWA CllO/A21.10 (2003) Ductile-Iron and Gray-Iron Fittings for Water
3. AWWA C153/A21.53 (2006) Ductile-Iron Compact Fittings for Water Service
4. AWWA C111/A21.11 (2000) Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings
5. AWWA C600 (2005) Installation of Ductile-Iron Water Mains and Their Appurtenances
6. AWWA M41 (2003) Ductile-Iron Pipe and Fittings

F. ASTM International (ASTM):

1. ASTM A 48 (1994ae1) Standard Specification for Gray Iron Castings
2. ASTM A 53/A 53M (2007) Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless
3. ASTM A 153/A 153M (2009) Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
4. ASTM A 185 (2007) Standard Specification for Steel Welded Wire Reinforcement, Plain, for Concrete
5. ASTM A 615/A 615M (2009b) Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement
6. ASTM A 746 (2009) Standard Specification for Ductile Iron Gravity Sewer Pipe
7. ASTM B 221 (2008) Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes
8. 8. ASTM B 584 (2009a) Standard Specification for Copper Alloy Sand Castings for General Applications
9. ASTM B 632/B 632M (2008) Standard Specification for Aluminum-Alloy Rolled Tread Plate
10. ASTM B 584 (2009a) Standard Specification for Copper Alloy Sand Castings for General Applications
11. ASTM C 33 (2008) Standard Specification for Concrete Aggregates

12. ASTM C 150 (2009) Standard Specification for Portland Cement
13. ASTM C 443 (2005ae1) Standard Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets
14. ASTM C 478 (2009) Standard Specification for Precast Reinforced Concrete Manhole Sections
15. ASTM C 748 (2005) Standard Test Method for Rockwell Hardness of Graphite Materials
16. ASTM C 890 (2006) Standard Practice for Minimum Structural Design Loading for Monolithic or Sectional Precast Concrete Water and Wastewater Structures
17. ASTM C 891 (2009) Standard Practice for Installation of Underground Precast Concrete Utility Structures
18. ASTM C 913 (2008) Standard Specification for Precast Concrete Water and Wastewater Structures
19. ASTM C 923 (2008) Standard Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures, Pipes, and Laterals
20. ASTM C 990 (2009) Standard Specification for Jonts for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants
21. ASTM F 2329 (2005) Standard Specification for Zinc Coating, Hot-Dip, Requirements for Application to Carbon and Alloy Steel Bolts, Screws, Washers, Nuts, and Special Threaded Fasteners

G. National Fire Protection Association (NFPA):

1. NFPA NEC 70 - National Electrical Code.

H. National Electrical Manufacturers Association (NEMA):

1. NEMA MG 1 (2009) Motors and Generators
2. NEMA 250 (2008) Enclosures for Electrical Equipment (100 Volts Maximum)

I. Underwriters Laboratories (UL):

1. UL 98 (2004) Standard for Safety Enclosed and Dead-Front Switches
2. UL 508 (2010) Industrial Control Equipment.
3. UL 489 (2010) Molded Case Circuit Breakers
4. UL 698 (2006) Industrial Control Equipment for Use in Hazardous (Classified) Locations.

1.6 ACTION SUBMITTALS

A. Product Data: Provide manufacturer's technical data including station capacities and operating characteristics.

1. Include product data for covers, guide rail assembly, piping, valves, level controls, control panel, and accessories.
2. Include product data for pumps.
3. Include product data for control panel and panel wiring schematic

B. Pump Performance Curves: Provide certified pump curves showing pump performance characteristics with pump and system operating point plotted. Include net positive section head (NPSH) curve and total dynamic head calculations.

1. Include performance chart for motor showing curves for torque, current, power, factor, input/output KW and efficiency. Include data on starting and no-load characteristics.

C. Shop Drawings: Show fabrication and installation details for each station. Indicate dimensions of well and valve vault. Detail equipment assemblies and indicate dimensions; loads; required clearances; method of field assembly; components; electrical characteristics; and location and size of each field connection.

1. Pumps: Indicated pump type, capacity, and power requirements.
2. Wiring Diagrams: Power, signal, and control wiring.
3. Indicate requirements for guide rail and bracket fabrication based upon selected pump.

1.7 INFORMATIONAL SUBMITTALS

A. Certificate: Signed by manufacturer, verifying pumping station performance testing.

B. Warranty: Sample of special warranty specified in this Section.

1.8 CLOSEOUT SUBMITTALS

A. Field Reports: Provide quality-control test reports documenting station operation performance.

B. Warranty: Signed copy of manufacturer's warranty.

C. Operation and Maintenance Manual: Include approved submittals and schedule for maintenance requirements.

1.9 MAINTENANCE MATERIAL SUBMITTALS

A. Provide the following pump spare parts:

1. Thrust bearing set.
2. Radial bearing set.
3. Upper and lower mechanical seal set.
4. Casing seal gaskets or O-rings.

1.10 QUALITY ASSURANCE

A. Regulatory Requirements: Comply with requirements of Indianapolis for design and construction of wastewater utility pumping station.

B. Manufacturer Qualifications: NPCA-certified plant, with experience and demonstrated capability to produce work specified in this Section.

1. Manufacturer's Engineer: Qualified professional engineer experienced in designing Work of this Section and licensed in Project state.

C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

1.11 WARRANTY

A. Manufacturer's Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of pumping stations that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Structural failures including precast concrete structures, hatches, and other accessories.
b. Faulty operation of pumps, controls, or pumping and piping system accessories.
c. Deterioration of metals, metal finishes, and other materials beyond normal use.

2. Warranty Period for Precast Concrete Structures: One year from date of Substantial Completion.
3. Warranty Period for Pumps: Three years from date of Substantial Completion.
4. Warranty Period for Control Panel: Provided by Control Panel Manufacturer: Three years from date of Substantial Completion

PART 2 - PRODUCTS

2.1 PRECAST PUMPING STATIONS DESIGN CRITERIA

A. Description: Site assembled and tested precast wastewater utility pumping station including controls, pumps, valves, internal piping, precast concrete well, and valve vault.

1. Pump Station Peak Design Flow: 150 gpm.
2. Force Main: New, as shown on Drawings.

a. Length: 72 feet.
b. Inlet Pipe Size: 3 inches NPS.
c. Discharge Pipe Size: 3 inches NPS.
d. Pipe Type: PVC.

3. Discharge Elevation: As indicated.
4. Design Elevations: As indicated.

a. Inlet Piping: 704.02 feet.
b. Wet Well Finish Grade: 712 feet.
c. Wet Well Rim: 711.50 feet.
d. Wet Well Discharge Piping: 706 feet.

5. Wet Well: Precast concrete.

a. Capacities and Characteristics: Provide base, barrel, and flat top precast sections as follows to correspond to height of precast structures indicated:

1) Diameter or Dimensions: 72 inches.
2) Inlet Pipe Size: 8 inches NPS.
3) Discharge Spool Pipe Size: 3 inches NPS.

6. Valve Vault: Precast concrete.

a. Capacities and Characteristics: Provide precast sections as follows:

1) Diameter or Dimensions: 72 inches.
2) Height: 16.5 feet.
3) Inlet Pipe Size: 3 inches NPS.
4) Discharge Spool Pipe Size: 3 inches NPS.

2.2 PRECAST CONCRETE STRUCTURES

A. General: Size indicated, with provision for sealant at joints, meeting the following requirements:

1. Designed Precast Concrete Structures: ASTM C 913, designed according to ASTM C 890 for A-16 (AASHTO HS20-44), heavy traffic, structural loading.
2. Traffic Live Loading: As indicated.
3. Depth of Bury: As indicated.
4. Lateral Soil Pressure: As indicated.
5. Special Loading Conditions: As indicated.
6. Uplift: As indicated on Drawings. Increase thickness to prevent flotation.
7. Ground Water Elevation: As indicated in project Geotechnical Report.

B. Round Precast Concrete Wells: ASTM C 478, precast, reinforced concrete.

1. Top: 8-inch minimum thickness flat top, or hatch cover top where indicated.
2. Base Section: 6-inch minimum thickness for floor slab and 5-inch (127 mm) minimum thickness for walls.
3. Joints: Bell and spigot, ASTM C 443.
4. Joint Sealant: ASTM C 990, bitumen or butyl rubber.
5. Flexible Resilient Pipe Connectors: ASTM C 923:

C. Precast Concrete Vaults: ASTM C 478, precast, reinforced concrete.

1. Base Section: 6-inch (152 mm) minimum thickness for floor slab and 4-inch (102 mm) minimum thickness for walls.

2. Resilient Pipe Connectors: ASTM C 890, cast or fitted into manhole walls, for each pipe connection.

D. Joint Sealant: ASTM C 990, bitumen or butyl rubber.

E. Well and Vault Bituminous Waterproofing: Carboline, Kop-Coat Bitumastic Super Service Black Coating System, or comparable product acceptable to Engineer.

2.3 PRECAST CONCRETE MATERIALS AND MIX DESIGN

A. General: Precast concrete according to ACI 318/318R.

B. Concrete Design Mix: 4,000 psi (27.6 MPa) minimum, with 0.45 maximum water/cementitious materials ratio.

2.4 ACCESS DOORS AND FRAMES

A. Watertight Access Door: Single -Ieaf opening. Extruded-aluminum gutter frame with NPS 1-1/2 (ON 40) drainage coupling and 1/4-inch- (6.4-mm-) thick, diamond-pattern, aluminum tread plate door; watertight; loading capacity to support 300-lbf/sq. ft. (14.4-kN/sq. m) pedestrian live load. Equip door with adjustable counterbalancing springs, heavy-duty hold-open arm that automatically locks door open at 90 degrees, hatch lock, release handle and removable lift handle.

B. Hardware:

1. Hinges: Heavy-duty, stainless-steel butt hinges with stainless-steel pins.
2. 2. Latch: Stainless-steel slam latch.
3. Lock: Snap lock with fixed handle on underside of hatch.
4. Hardware Material: Stainless steel, including latch and lifting mechanism assemblies, hold-open arms, and all brackets, hinges, pins, and fasteners.

C. Materials:

1. Aluminum Extrusions: ASTM B 221 (ASTM B 221M), Alloy 6063-T6.
2. Aluminum-Alloy Rolled Tread Plate: ASTM B 632/B 632M, Alloy 6061-T6.
3. Frame Anchors: Same type as door face.
4. Inserts, Bolts, and Anchor Fasteners: Hot-dip galvanized steel according to ASTM A 153/ A 153M or ASTM F 2329.

2.5 WET-WELL ACCESSORIES

A. Pipe Supports: Manufacturer's standard.

B. Guide Rail Assembly: Guide rails, stainless steel, Type 316, with pump guide brackets configured to match requirements of selected pumps.

C. Flexible Resilient Pipe Connectors: Flexible connector, ASTM C 923.

D. Well Protective Liner: Chemical resistant, high tensile strength, puncture-resistant polymer membrane, designed and tested for use in application intended, in thickness recommended by manufacturer for application.

1. Products:

a. A-Lok Products, Inc., Dura Plate 100.
b. Agru America, Inc., HOPE Sure Grip Type 560.
c. GSE Studliner.
d. Saurerisen SewerGuard 210 Trowelable.
e. Prime Coatings, Inc., Utilithane.
f. Zebron Corp.

E. Ventilation: Stainless steel piping, with internal insect screening.

2.6 PUMPS

A. Wet-Well Wastewater Pumps: Non-clog submersible type centrifugal pump with auto coupling, designed to handle raw, unscreened sewage, stormwater, sludge, or similar contaminated liquid, with induction type electric motor assembled in a single body, watertight NEMA Type B chamber. Pumps shall be capable of repeatedly passing spherical solids up to 3 inches (76 mm) in diameter. Provide units as complete system with guide rail assembly and piping.

1. Basis of Design Product: Provide Tsurumi Pump. TOS100C42.2-CR-62 (3"), or a comparable product approved by Engineer prior to bid.
2. Motor and Pump Construction:

a. Motor Housing, Volute, and Impeller Material: Cast iron, ASTM A 48 Class 40B, smooth cast, free of porosity or other irregularities.
b. Single Piece Motor and Pump Shaft: Stainless steel, AISI Type 430F.
c. Impeller: Single-vane closed, radial non-clog meeting Hydraulic Institute standards.
d. Volute Wear Ring: Bronze, ASTM B 584.
e. Bearings: Permanently grease lubricated upper ball bearing, lower two-row angular contact bearing, sized to transfer radial and thrust loads to pump housing, with L-lO bearing life of 100,000 hours at 1/2 to 1-1/2 BEP flow.
f. Seals: Gaskets or o-rings: Nitrile rubber.
g. Shaft Seals: Silicone carbide/silicone carbide (impeller and motor side).
h. Seal Failure System: Electrical probe mounted in moisture sensing chamber designed for detecting presence of water and communicating with solid state device in pump control panel.
i. Protective Coating: High solids epoxy, for components in contact with pumping media not required to be stainless steel.
j. Cable Jacket: Neoprene.
k. Cable Entry: Elastomer grommet, stainless steel washers.
l. Power and Control Cable: Minimum 30 ft. (10 m) length, sized per NEC requirements.
m. Fasteners: Stainless steel, AISI Type 316.

3. Motor:

    a. Description: Enclosed submersible air-filled.
    b. Efficiency: Energy efficient, as defined in NEMA MG 1.
    c. Service Factor: 1.15.
    d. Voltage Tolerance: Plus/minus 10 percent.
    e. Rotor: Random-wound, squirrel cage.
    f. Temperature Rise: Class B.
    g. Insulation: Class F.
    h. Overload Protection: External, plus thermal sensors for each phase winding, monitored by control panel, set to stop motor at 260 deg. F (127 deg. C).
    i. Cooling System: Closed loop non-toxic glycol solution system designed to transfer excess heat from stator housing to process liquid through a cooling jacket and integrated heat exchanger.

4. Pumping System: Comply with NEC Class 1, Division 1, Group C & D hazardous locations.

    a. Sliding Guide Bracket: Provide as separate part of pumping unit, designed for attachment to standard, interchangeable ANSI or DIN pump flanges, enabling pump removal and replacement from outside of well.
    b. Discharge Seal: Equip pump flange and guide bracket with field replaceable seals providing positive sealing to discharge elbow.

5. Pump System Characteristics: As required to meet performance requirements.

    a. Number of Pumps: Two.
    b. Capacity: 150 gpm.
    c. Motor Size: 3 hp.
    d. Total Dynamic Head: 8 feet.
    e. Speed: 1750 rpm.
    f. Motor Performance: Motor sized so that pump is non-overloading throughout pump performance curve from shut-off through run-out.
    g. Pump Performance: Continuous duty handling pumped media up to 104 deg. F (40 deg. C) with up to 15 evenly spaced starts per hour.
    h. Watertight Performance: Continuous leak-free submergence to 65 feet (20 m).
    i. Motor Cooling System Performance: Capable of allowing motor to run continuously under full load while in unsubmerged condition.

B. Pumping Station Electrical Characteristics:

1. Electrical Service:

    a. Volts: 480 V.
    b. Phases: Three.
    c. Frequency: 60Hz.

2. Full-Load Amperes: __ .

2.7 PUMPING STATION CONTROLS

A. Control Sequence of Operation: Cycle each pump on and off automatically to maintain well wastewater level. Automatic control operates both pumps in parallel if well level rises above starting point of low-level pump, until shutoff level is reached. Automatic alternator, with manual disconnect switch, changes sequence of lead-lag sewage pumps at completion of each pumping cycle.

B. Motor Controllers: Magnetic, full voltage, nonreversing. Include undervoltage release, thermal overload heaters in each phase, manual reset buttons, and hand-automatic selector switches. Include circuit breakers to provide branch-circuit protection for each controller.

C. Install labels to identify switches and controls.

D. Control Panel: Complying with UL 508A, with weatherproof enclosure, covered compartments sized to accommodate controllers, circuit breakers, transformers, alternators, and programmable logic controller.

1. Basis of Design Product: Provide a Control Panel, , or a comparable product approved by Engineer prior to bid.
2. Panel Listing: CUL and UL 698(A).
3. Condensate control heater with adjustable thermostat and continuously running fan. Specifier: Retain cooling fan package if panel enclosure will house VFD or RVSS.
4. Cooling fan package with self-starting fan motor and intake grill with filter.
5. Convenience Outlet: 15A GFCI duplex receptacle in weatherproof mounting on exterior of panel
6. Main Disconnect Switch: Non-fusible, touch-safe, with pad-lockable operator, UL 98- and UL 508- listed.
7. Pump Circuit Breakers: Molded case thermal magnetic type, DIN rail mounted, UL 489. Provide one breaker for each pump power circuit, one breaker for control power, and one breaker for convenience outlet.
8. Control Power Transformer: Panel mounted, UL listed, 120 VAC, sized as required for controls and accessory components.
9. Surge Arrester: For power line and phone line.
10. Uninterruptible Power Supply: 500 VA, 120 VAC input and output, with hot-swappable maintenance free lead-acid batteries and lightning and surge protection.
11. Terminal Blocks: Numbered, #26-8 AWG capacity.
12. Motor Starters:

    a. Motor Contactor: NEMA rated; one for each pump.
    b. Overload Relay: Solid state type.
    c. Reduced voltage soft starter (RVSS): Digital microprocessor.
    d. Variable Frequency Drive: For standard pumps with integral AC motors, programmable for constant or variable torque, with interface module with handoff-auto switch for each pump, alarm and warning lights, and drive status.

13. Control Relays:

a. General Purpose Relays: 10A contacts, DIN-rail mounted, touch-safe socket.
b. Three-Phase Voltage Monitor Relay: Standard plug-in base with DIN-rail mounted socket and SPDT isolated 10A contacts.
c. Seal Failure Sensor Relay: DIN-rail mounted SPDT conductivity-based liquid-level control with adjustable sensitivity and LED indicator.
d. Intrinsically Safe Relay: UL 698a, utilizing transformer isolated barrier circuit to determine float switch status and relate status to controller module via electromechanical output.
e. Current Sensor: UL-listed with selectable amperage range, to convert monitored AC current to proportional DC voltage range of 0 to 5 volts.

14. Operator Interface Devices: Provide the following, with pre-programmed operator interface terminal:

a. Elapsed Time Meter: For each pump.
b. Cycle counter.
c. Pilot Lights: For the following functions: Panel power; Pump running; Pump failure; Pump over temperature; Pump overload; Pump seal failure; Check floats.
d. Liquid Level Alarm: Pilot light, push-button type, NEMA 4X, with 120VAC incandescent lamp and red lens; Flashing alarm beacon, 120V, 40W, UL-listed Type 4X, shatter resistant red lens, operating in concert with pilot light.
e. Push To Silence Switch with Audible Alarm.

15. Heat Sensor Contacts (Motor Interrupt): Supplied for motors with required external over-temp connection. Default disabled with terminal link.

E. Level Control System: Manufacturer's standard control system of type indicated. Senses variations of wastewater level in well. System includes high and low adjustments capable of operating on 6-inch (152 mm) minimum differential of liquid level.

1. Control Type: Float switches.

2.8 PIPING

A. Ductile-Iron, Mechanical-Joint Pipe and Fittings

1. Ductile-Iron Pipe: AWWA C151/A21.51, with mechanical-joint bell and plain spigot end unless flanged ends are indicated.

a. Provide flanged ends within well and vault.

2. Ductile-Iron Fittings: AWWA C110/A21.10, mechanical-joint, ductile- or gray-iron standard pattern or AWWA C153/A21.53, ductile-iron compact pattern.
3. Glands, Gaskets, and Bolts: AWWA Cll1/A21.11, ductile- or gray-iron glands, rubber gaskets, and steel bolts.
4. Application: Buried service between well and vault.

B. Check Valves: Flanged swing check valves with outside lever, suitable for use in raw wastewater equipped with the following:

1. Mechanical disc position indicator, which has continuous contact with the disc under all flow conditions.
2. Screw type backflow actuator to allow opening of valve during no-flow conditions.
3. Epoxy coating and polyurethane lining.

C. Isolation Valves: Flanged eccentric plug valves.

D. Air Vacuum/Air Release Combination Valves: Manufacturer's standard.

2.9 FABRICATION

A. Precast Concrete Structures:

1. ASTM C 478 for precast wells.
2. ASTM C 478 for precast vaults.
3. Fabricate structures with continuous joints to provide watertight construction.
4. Prepare valve and meter vaults with factory installed piping, valves, sleeves and other devices required.

B. Well and Vault Waterproofing: Apply two coats of bituminous waterproofing to exterior surfaces of structures totaling 14 mils dry film thickness. Treat penetrations as recommended by waterproofing manufacturer.

C. Guide Rail Assembly: Custom configuration to allow pump lift-out assembly and pump to move from bottom of guide to top of guide without binding. Construct lift-out assembly to be easily removable from the top of the Guide Rail. Configure to match selected pump's bracket and coupling.

D. Piping: Manufacturer's standard piping layout including spools, bends, and tees.

PART 3 - PART 3 - EXECUTION

3.1 EARTHWORK

A. Refer to Division 31 Section "Earth Moving" for general and trench excavation and backfilling.

3.2 PRECAST CONCRETE STRUCTURES

A. Install precast concrete structure sections with sealants per ASTM C 891.

3.3 PIPING

A. Gravity Flow Piping:

1. Install piping pitched down in direction of flow minimum 1 percent unless otherwise indicated.
2. Install piping NPS 6 (DN 150) and larger with restrained joints at tee fittings and at changes in direction. Use corrosion-resistant rods, pipe or fitting manufacturer's proprietary restraint system, or cast-in-place-concrete supports or anchorsInstal1 ductile iron, gravity sewer piping per ASTM A 746.

B. Pressure Piping:

1. Install piping with restrained joints at tee fittings and changes in direction. Use corrosion-resistant rods or cast-in-place-concrete supports or anchors.
2. Install ductile-iron pressure piping per AWWA C600 or AWWA M41.

3.4 FIELD QUALITY CONTROL

A. Perform tests and inspections and prepare test reports.

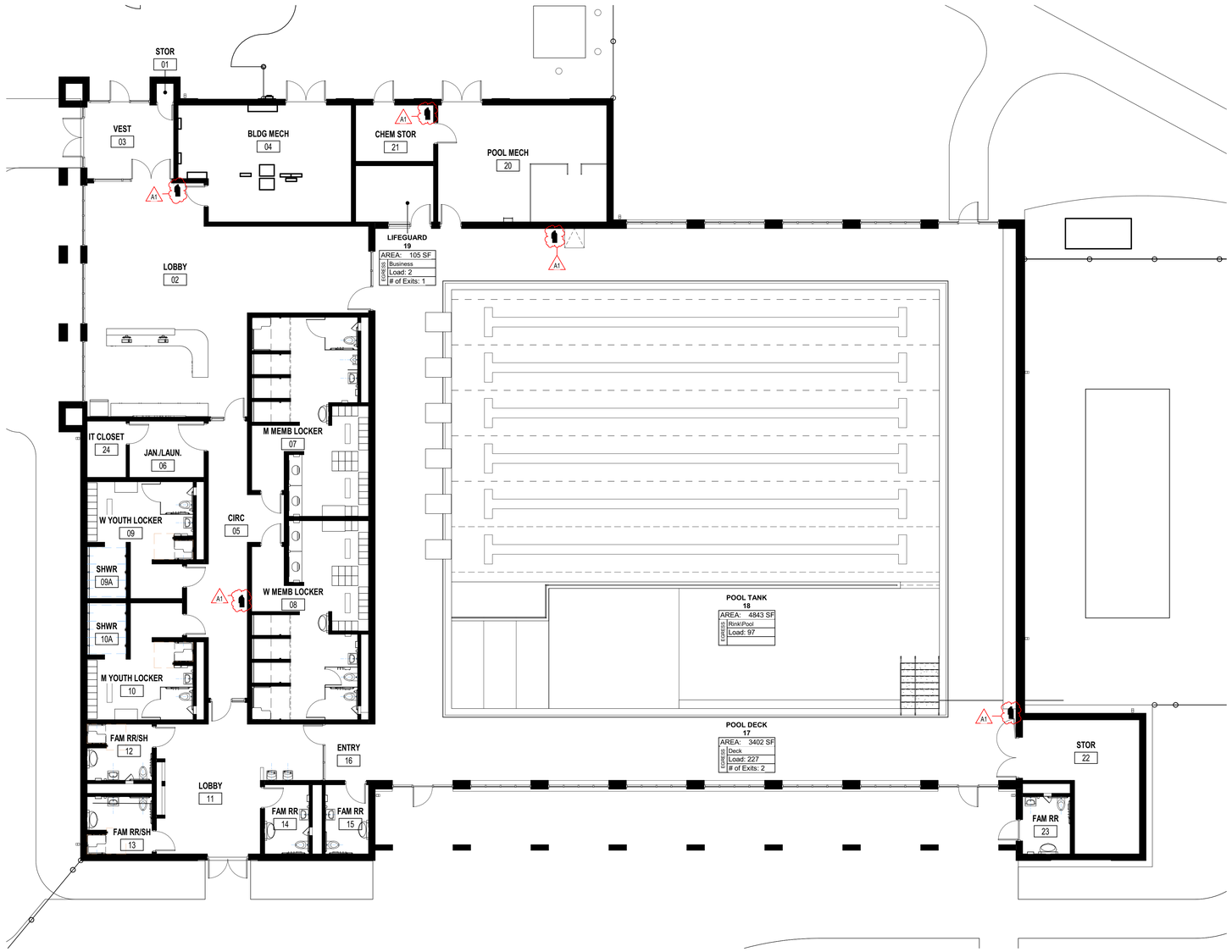
1. Manufacturer's Field Service: Engage a pump station manufacturer's authorized service representative to assist in testing and startup.

B. Tests and Inspections:

1. Test completed piping systems according to requirements of authorities having jurisdiction. Submit reports.
2. After installing wastewater pumping stations and after electrical circuitry has been energized, test pumps and controls for compliance with requirements.
3. After electrical Circuitry has been energized, start units to confirm the station can run at pre-specified design parameters.
4. Test piping for leaks and defects.
5. Test and adjust controls and safeties.
6. Force Main: Test at pressure not less than 1-1/2 times the maximum system operating pressure, but not less than 150 psig (1035 kPa).

C. Remove and replace components of the wastewater pumping stations that do not pass tests and inspections and retest as specified above.

END OF SECTION



2A FIRST FLOOR FIRE AND LIFE SAFETY
1/8" = 1'-0"

CODE SUMMARY

Applicable Codes:	2014 Indiana Building Code Indianapolis-Marion County Fire Protection Code (MCFPC)
Project Description:	Construction of an indoor aquatics center of approximately 15,100 sq ft in floor area. The facility includes a training pool, locker and rest room facilities and other associated support functions.
Code Strategy:	The building is designed as Type IIB Construction, and will be protected throughout with an automatic sprinkler system.
Occupancy Classifications:	Pool for participant use, and ancillary functions - A-3 Occupancy [303.4]
Construction Type:	Type IIB Construction based upon allowable area
Allowable Area:	Tabular Area: 9,500 sf [Table 503] Sprinkler Increase: + 28,500 sf [506.3] Frontage Increase: + 7,125 sf [506.1] Allowable Area: 45,125 sf Actual Area: 15,100 sf
Allowable Height:	3 stories allowed, 1 story actual [504.2]
Building Elements - Fire-resistive Requirements:	Structural frame: 0 hours Table 601 Floor assemblies: 0 hours Roof assemblies: 0 hours Interior partitions: 0 hours Exterior walls: 0 hours Table 602
Fire and Smoke Dampers:	None required
Egress Corridors:	Corridors are permitted to be of nonrated construction throughout, based upon sprinkler protection [Table 1018.1]
Exit Travel Distance:	Exit access travel distance is permitted to be a maximum of 250 feet [Table 1016.2]
Common Path of Travel:	The common path of travel is permitted to be a maximum of 75 feet for A Occupancies [1014.3]
Sprinkler System:	Automatic sprinkler system will be provided throughout the building Variance 22-10-18b was approved to omit sprinkler protection over the pool
Standpipes:	Class I Standpipes are not required based upon sprinkler protection throughout [905.3.1]
Fire Alarm System:	Fire alarm system required throughout based upon a calculated occupant load of more than 300 - manual pull stations are not required based upon automatic sprinkler initiation of the system [907.2.1, exc.]
Fire Hydrant:	Fire hydrant required within 600 feet of all portions of the exterior walls of the building [508.5.1, IFC - Sec. 591-406, MCFPC]
Fire Extinguishers:	Fire extinguishers required throughout the building [Sec. 591-402, MCFPC]

A1

LIFE SAFETY PLAN LEGEND

Room name
101
AREA: 150 SF
EGRESS
Occupancy
Load: ##
# of Exits: #

EGRESS INFORMATION TAG

LOCK BOX

ANNUNCIATOR PANEL

FIRE HOSE CABINET

FIRE EXTINGUISHER (NOT REQUIRED)

NON-RATED INCIDENTAL-USE WALL [508.2.2.1]

1-HOUR FB RATED WALL

2-HOUR FB RATED WALL

4-HOUR FB RATED WALL

1-HOUR FIRE PARTITION [419, 1017.1]

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2021-178.RVI
Project Date 12.05.2022
Produced BMF TM

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1	ADDENDUM 1	01.05.2023

5640 N Illinois St
Indianapolis, IN 46208

KEY PLAN

N

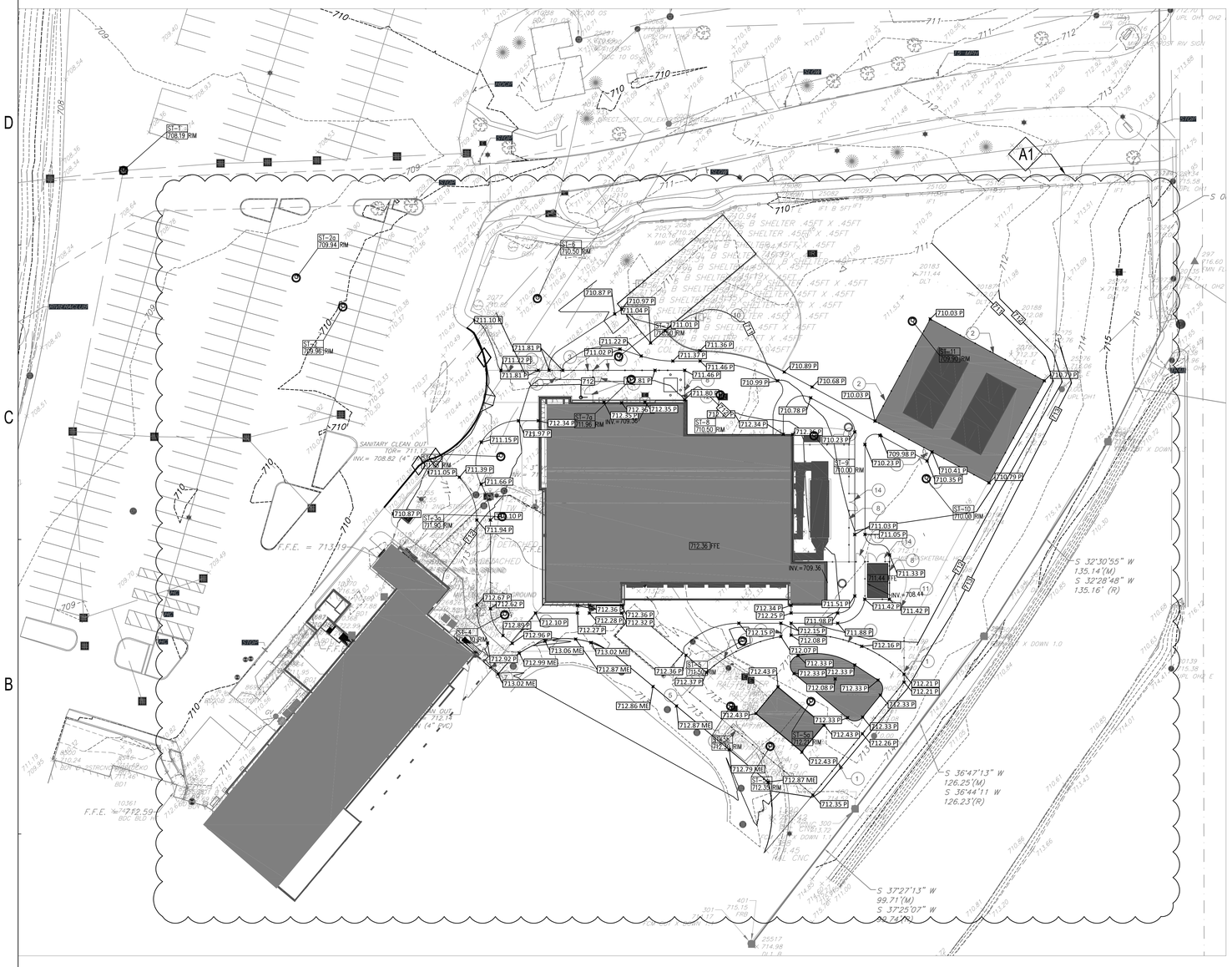
The Riviera Club

THE RIVIERA CLUB
EST. 1933

Aquatics Center

FIRE AND LIFE SAFETY PLAN

G-101



1A GRADING PLAN
1" = 30'

GENERAL GRADING NOTES

1. IF THE LOCAL BENCHMARK(S) WILL BE DISTURBED DURING CONSTRUCTION, IT THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH ADDITIONAL BENCHMARKS AS NEEDED.
2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF SITE CONDITIONS AT THE TIME THIS PROJECT IS BID.
3. ALL TRANSITIONS IN CURB HEIGHTS SHALL BE SMOOTH WITH A CONSISTENT SLOPE.

GRADING LEGEND

828	EXISTING CONTOUR LINE
828	PROPOSED CONTOUR LINE
[1000.00]	PROPOSED ELEVATION
[1000.00]EX	EXISTING ELEVATION
[1000.00]ME	MATCH EXISTING ELEVATION
[1000.00]TC	TOP OF CURB ELEVATION
[1000.00]TW	TOP OF WALL ELEVATION
[1000.00]TR	TOP OF RIM ELEVATION
[1000.00]P	PAVEMENT ELEVATION
[1000.00]GU	GUTTER ELEVATION
[1000.00]G	GROUND ELEVATION
[1000.00]FL	FLOWLINE ELEVATION
[1000.00]BC	BOTTOM OF CURB ELEVATION
[1000.00]BW	BOTTOM OF WALL ELEVATION
[1004.50]FFE	FINISH FLOOR ELEVATION

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2021-178.RVI
Project Date 12.05.2022
Produced LZ

KYLE ERIC MILLER
REGISTERED
NO. 19900465
STATE OF INDIANA
PROFESSIONAL ENGINEER

#	Revision	Date
A1	Addendum #1	01.05.2023

5640 N Illinois St,
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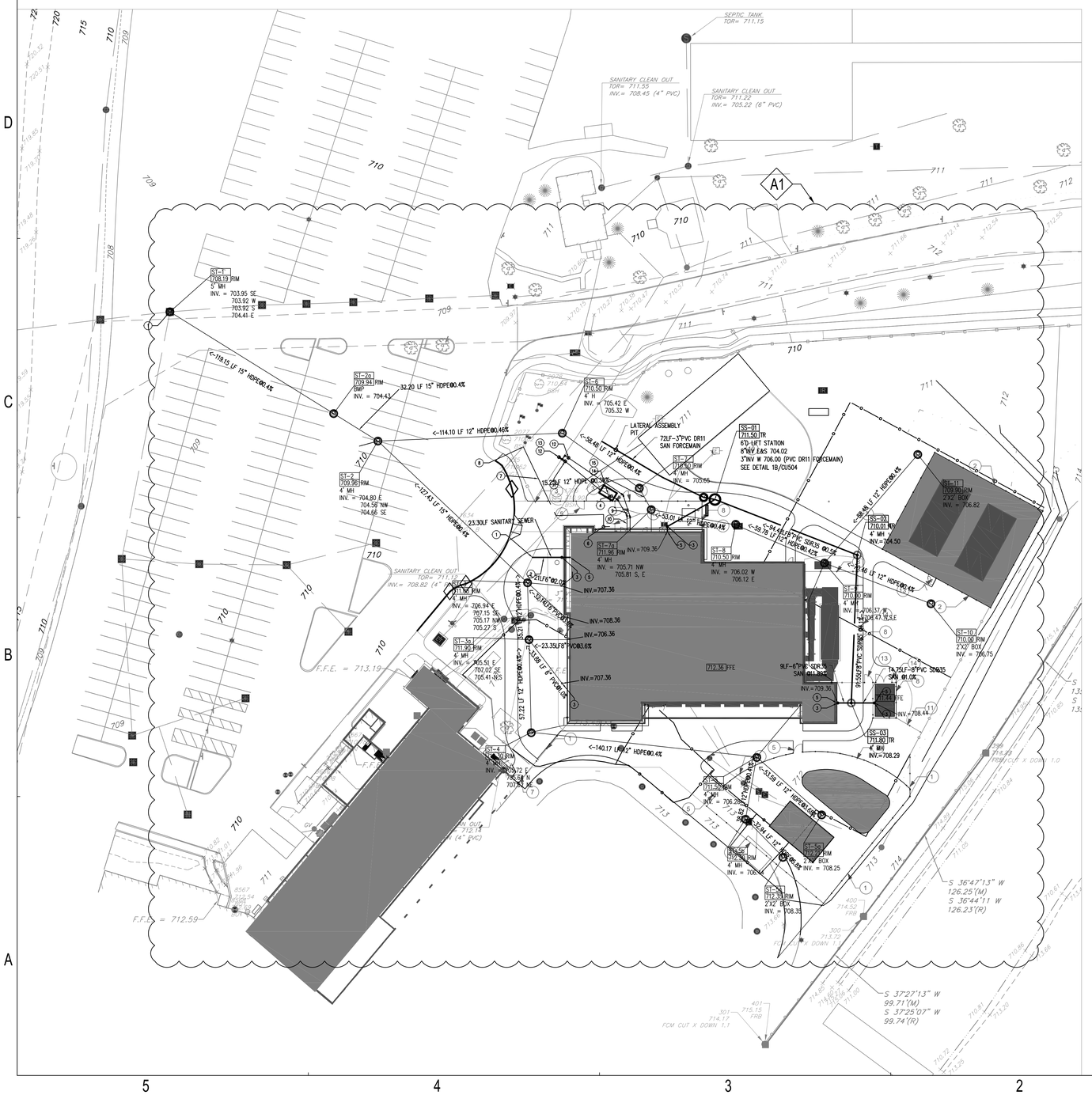
GRADING PLAN

CG101



1A UTILITY PLAN
1" = 30'

GENERAL UTILITIES NOTES

1. IF THE LOCAL BENCHMARK(S) WILL BE DISTURBED DURING CONSTRUCTION, IT THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH ADDITIONAL BENCHMARKS AS NEEDED.
2. ALL LIDS, CASTINGS, GRATES, BOXES, AND HATCHES ASSOCIATED WITH EXISTING UTILITY STRUCTURES THAT ARE NOT INDICATED FOR MODIFICATION SHALL BE MAINTAINED AND PROTECTED DURING CONSTRUCTION. ADJUST THE TOP ELEVATIONS PER GRADING PLAN.
3. COMPACTED GRANULAR BACKFILL IS REQUIRED FOR ALL UTILITY TRENCHES LOCATED UNDER PAVED AREAS. SEE SPECIFICATIONS.
4. PIPE LENGTHS INDICATED ON THE DRAWINGS ARE FOR HYDRAULIC CALCULATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR FURNISHING THE AMOUNT OF PIPE MATERIALS NECESSARY FOR A COMPLETE INSTALLATION.
5. ALL EXISTING PIPES INVERTS ARE APPROXIMATE. VERIFY ALL INVERTS IN FIELD. IF INVERTS DO NOT MATCH THE PLAN, CONTACT THE ARCHITECT.

UTILITY LEGEND

- 54LF-8 " HDPE @0.50% — PIPE
- WV — WATER VALVE
- FIRE HYDRANT
- MANHOLE
- END SECTION
- BOX STRUCTURE
- DOWNSPOUT BOOT
- CLEAN OUT
- STXXX XXX.XX RIM / INV. N XXX.XX — STORM NETWORK
- SSXXX XXX.XX RIM / INV. N XXX.XX — SANITARY NETWORK

Utility Notes

1. CONNECT TO EXISTING
2. 4" SANITARY PIPE
3. C.O.
4. FIRE DEPT. CONNECTION
5. CONNECT TO BUILDING, SEE PLUMBING DRAWINGS.
6. GAS METER, SEE PLUMBING DRAWINGS FOR CONTINUATION.
7. RECOMMENDED GAS LINE ROUTE.
8. CONNECT TO EXISTING GAS LINE
9. 4" WATER LINE
10. 6" WATER LINE
11. POST INDICATOR VALVE W/TWO BOLLARDS(MIN. 40' AWAY FROM BLDG)
12. 6" VALVE
13. CONNECT TO EX. WATER MAIN. FIELD VERIFY THE LOCATION.
14. DOUBLE CHECK BACKFLOW ASSY & CONCRETE VAULT. SEE DETAIL THIS SHEET.
15. CONNECT BACKFLOW VAULT SUMP PUMP DISCHARGE LINE TO STORM STR ST-6.

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

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KYLE E. MILLER
REGISTERED
NO.
19900465
STATE OF
INDIANA
PROFESSIONAL ENGINEER

#	Revision	Date
A1	Addendum #1	01.05.2023

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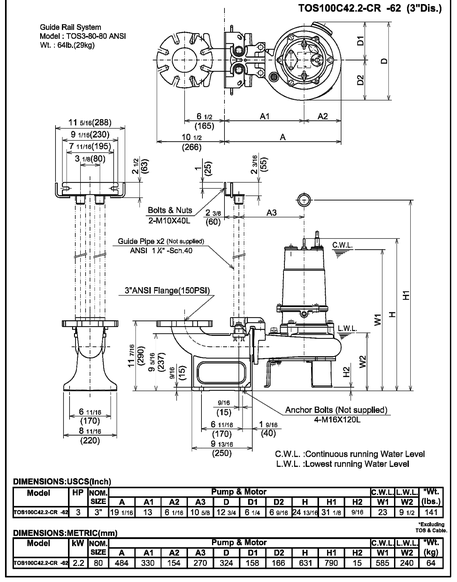
UTILITY PLAN

CU101

Nov.12 AM-00025-2

TSURUMI PUMP | C-SERIES CUTTER - TYPE - SEWAGE & WASTEWATER PUMPS | **DIMENSIONS**

TOS100C42.2-CR -62 (3"Dis.)



DIMENSIONS:USCS(Inch)

Model	HP	NOM. SIZE	Pump & Motor A	A1	A2	A3	D	D1	D2	H	H1	H2	C.W.L. W1	L.W.L. W2	*Wt. (lbs.)
TOS100C42.2-CR -62	3	3"	19 1/16	13	8 1/16	10 5/8	12 3/4	6 1/4	6 9/16	24 13/16	31 1/8	9/16	23	9 1/2	141

*Excluding TOS & Cable.

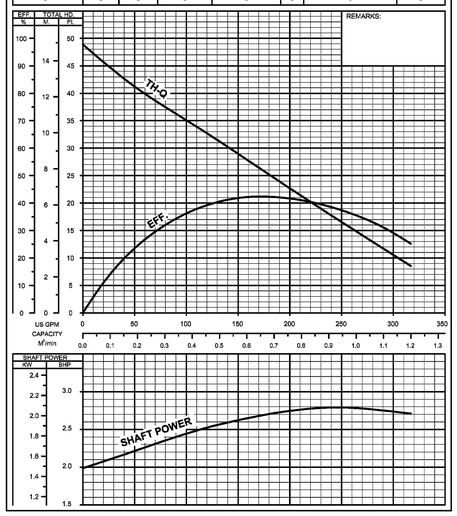
DIMENSIONS:METRIC(mm)

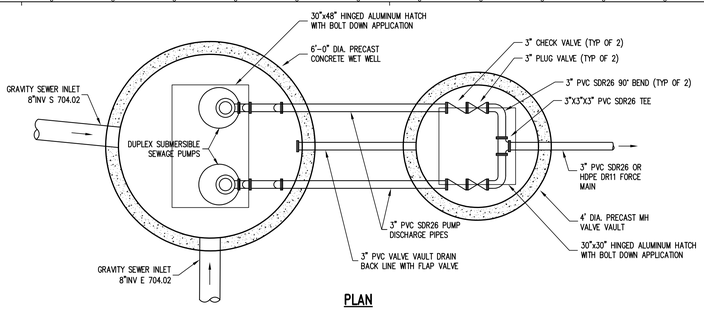
Model	kW	NOM. SIZE	Pump & Motor A	A1	A2	A3	D	D1	D2	H	H1	H2	C.W.L. W1	L.W.L. W2	*Wt. (kg)
TOS100C42.2-CR -62	2.2	80	484	330	154	270	324	158	166	631	790	15	585	240	64

Sep.13 AM-00003-1

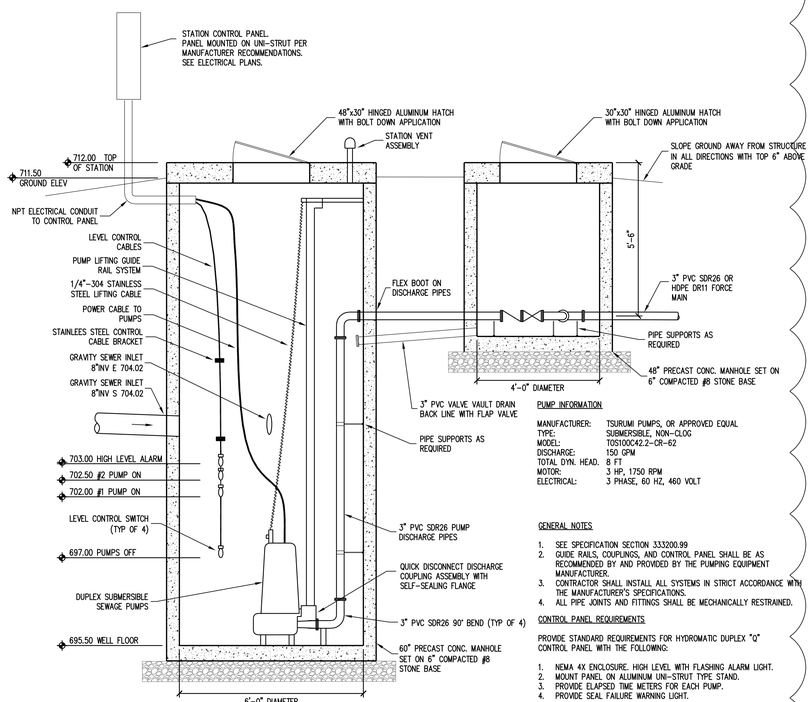
TSURUMI PUMP | C-SERIES CUTTER - TYPE - SEWAGE & WASTEWATER PUMPS | **PERFORMANCE CURVE**

MODEL	BORE	HP	KW	RPM	SOLIDS DIA.	LIQUID	SG.	VISCOSITY	TEMP.
(TOS)100C42.2-CR -62	4"/100mm	3	2.2	1700	1.73"/44mm	Water	1.0	1.123cSt.	60°F
PUMP TYPE	**PHASE**	**VOLTAGE**		**AMPERAGE**	**HZ**	**STARTING METHOD**		**INS.CLASS**	
Cutter-Type-Sewage&Wastewater	3	208-230/460/575		9.4-8.5/4.3/3.5	60	Direct On Line		E	
CURVE No.	**DATE**	**PHASE**	**VOLTAGE**	**AMPERAGE**	**HZ**	**STARTING METHOD**		**INS.CLASS**	
-	-	-	-	-	-	-		-	





PLAN



SECTION

PUMP INFORMATION

MANUFACTURER: TSURUMI PUMPS, OR APPROVED EQUAL
TYPE: SUBMERSIBLE, NON-CLOG
MODEL: TOS100C42.2-CR-62
DISCHARGE: 150 GPM
TOTAL DYN. HEAD. 8 FT
MOTOR: 3 HP, 1750 RPM
ELECTRICAL: 3 PHASE, 60 HZ, 460 VOLT

GENERAL NOTES

1. SEE SPECIFICATION SECTION 333200.99
2. GUIDE RAILS, COUPLINGS, AND CONTROL PANEL SHALL BE AS RECOMMENDED BY AND PROVIDED BY THE PUMPING EQUIPMENT MANUFACTURER.
3. CONTRACTOR SHALL INSTALL ALL SYSTEMS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
4. ALL PIPE JOINTS AND FITTINGS SHALL BE MECHANICALLY RESTRAINED.

CONTROL PANEL REQUIREMENTS

PROVIDE STANDARD REQUIREMENTS FOR HYDROMATIC DUPLEX "O" CONTROL PANEL WITH THE FOLLOWING:

1. NEMA 4X ENCLOSURE. HIGH LEVEL WITH FLASHING ALARM LIGHT.
2. MOUNT PANEL ON ALUMINUM UNI-STRUT TYPE STAND.
3. PROVIDE ELAPSED TIME METERS FOR EACH PUMP.
4. PROVIDE SEAL FAILURE WARNING LIGHT.

STRUCTURE DATA TABLE

STRUCTURE NUMBER	ST-1	ST-2	ST-2a	ST-3	ST-3a	ST-4	ST-5	ST-5a	ST-5b	ST-5c	ST-6
DESCRIPTION	MANHOLE	MANHOLE	BMP	MANHOLE	MANHOLE	MANHOLE	MANHOLE	BOX INLET	MANHOLE	BOX INLET	MANHOLE
DETAIL NUMBER	1A/CU501	1A/CU501	CU503	1A/CU501	1A/CU501	1A/CU501	1A/CU501	1C/CU501	1A/CU501	1C/CU501	1A/CU501
STRUCTURE SIZE	60"	48"	54"	48"	48"	48"	48"	24"X24"	48"	24"X24"	48"
CASTING NUMBER	R-2535	R-1772	R-1772	R-2535	R-2535	R-2535	R-2535	R-3405	R-2535	R-3405	R-2535
RIM ELEVATION	708.19	709.96	709.94	711.05	711.90	712.30	711.50	712.21	712.30	712.35	710.50
INVERTS	703.95 SE 703.92 W 703.92 S 704.41 E	704.80 E 704.56 NW 704.66 SE	704.43	706.94 E 707.15 SE 705.17 NW 705.27 S	705.51 E 707.02 SE 705.41 N,S	705.72 E 705.64 N 707.62 NE	706.28	708.25	706.44	708.35	705.42 E 705.32 W

STRUCTURE NUMBER	ST-7	ST-7a	ST-8	ST-9	ST-10	ST-11
DESCRIPTION	MANHOLE	MANHOLE	MANHOLE	MANHOLE	BOX INLET	BOX INLET
DETAIL NUMBER	1A/CU501	1A/CU501	1A/CU501	1A/CU501	1C/CU501	1C/CU501
STRUCTURE SIZE	48"	48"	48"	48"	24"X24"	24"X24"
CASTING NUMBER	R-2535	R-2535	R-2535	R-2535	R-3405	R-3405
RIM ELEVATION	710.50	711.96	710.50	710.00	710.00	709.90
INVERTS	705.65	705.71 NW 705.81 S,E	706.02 W 706.12 E	706.37 W 706.47 N,S,E	706.75	706.82

NOTE:
The BMP structure Aqua Swirl XC-4 shall not be changed after the city approved the plan.
If the contractor wants another BMP structure for the project, the contractor shall cover the cost the re-permitting cost and engineering time.

A1

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2021-178.RVI
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KYLE E. MILLER REGISTERED NO. 19900465 STATE OF INDIANA PROFESSIONAL ENGINEER

#	Revision	Date
A1	Addendum #1	01.05.2023

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Indianapolis, IN 46208

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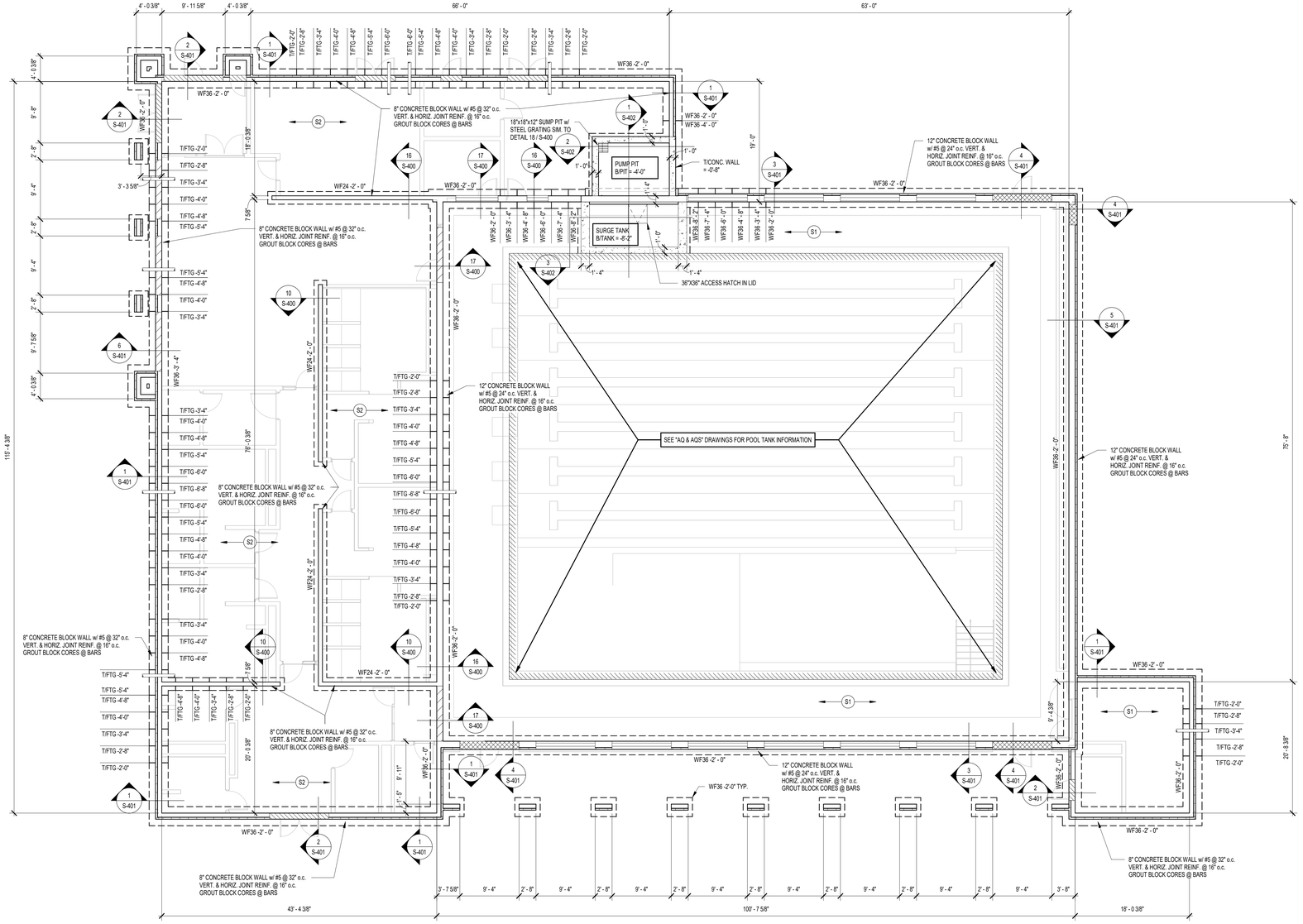
The Riviera Club

THE RIVIERA CLUB EST. 1933

Aquatic Center

SITE UTILITY DETAILS

CU504



1 FOUNDATION PLAN
1/8" = 1'-0"

FOUNDATION PLAN NOTES

1. REF. S-600 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.

2. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.

3. COORDINATE EXACT SIZE & LOCATION OF ALL MECHANICAL OPENINGS IN FOUNDATION WALLS WITH THE MECHANICAL, ELECTRICAL & PLUMBING CONTRACTORS.

4. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FINISH FLOOR ELEVATION 0'-0" (U.S.G.S. 712.36). REF. CIVIL DWGS.

5. REF. ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.

6. REF. S-400 FOR TYPICAL FOUNDATION DETAILS.

7. NOTE: PERIMETER WALL AND COLUMN FOOTINGS SHALL BE LOWERED AND/OR SLEEVED TO PASS BELOW PLUMBING LINES (I.E. SANITARY & STORM SEWERS, WATER LINES, ETC.) SHOWN ON THE PLUMBING DRAWINGS. PROVIDE FOOTING STEPS AS REQUIRED PER THE TYPICAL DETAILS ON S400.

8. ALL SLAB RECESSES SHALL BE LOCATED PER THE ARCHITECTURAL DRAWINGS. COORDINATE DEPTHS OF ALL SLAB RECESSES WITH THE ARCHITECTURAL DRAWINGS AND/OR THE FLOORING SUPPLIER.

9. COORDINATE REINFORCING DOWELS FOR CMU VERTICAL REINFORCING WITH REINF. NOTED ON PLANS & SECTIONS.

10. GROUT ALL CORES OF CMU BELOW FINISH FLOOR SOLID.

11. COLUMN FOOTINGS, TRENCH FOOTINGS AND WALL FOOTINGS SHALL BEAR ON APPROVED SOIL. UNDERCUT AS REQ'D TO SUITABLE BEARING MATERIAL AS DETERMINED BY THE GEOTECHNICAL TESTING AGENCY. REF. TYPICAL FOOTING UNDERCUT DETAILS ON SHEET S-400.

12. DOWEL ALL INTERIOR NON-LOAD BEARING WALLS TO 6" THICK SLAB-ON-GRADE PER DETAIL 10/S-400. LAYOUT WALLS PER DIMENSIONS ON ARCHITECTURAL DRAWINGS.

13. PROVIDE CONTROL/CONTRACTION JOINTS IN SLABS ON GRADE (REF. THE TYPICAL DETAILS ON SHEET S400). ALL JOINTS IN SLABS TO RECEIVE THIN OR THICK-SET TERRAZZO, CERAMIC OR PORCELAIN TILE, VINYL-COMPOSITION TILE (VCT) OR VINYL SHEET GOODS, EPOXY OR SIMILAR THIN-FILM FINISH FLOORING SHALL BE CAREFULLY COORDINATED WITH THE FLOORING CONTRACTOR. THE CONTRACTOR SHALL SUBMIT SLAB JOINT LAYOUT TO ARCHITECT/ENGINEER FOR REVIEW PRIOR TO PLACING SLABS.

14. PLAN LEGEND:

F.F.	DENOTES FINISH FLOOR
T/'X'	DENOTES TOP OF FTG., SLAB, PIER, ETC.
B/'X'	DENOTES BOTTOM OF FTG., ETC.
C.J.	DENOTES SLAB ON GRADE CONTROL/CONTRACTION JOINT
WF36 -2'-0"	DENOTES WALL FOOTING MARK & TOP OF FOOTING ELEVATION (SEE WALL FOOTING SCHEDULE)
	DENOTES PIPE PENETRATION THROUGH FOUNDATION WALL. COORDINATE EXACT LOCATION & INVERT ELEVATION w/ APPROPRIATE TRADE. LOWER BOTTOM OF FOOTING & PROVIDE SLEEVE THROUGH FOUNDATION WALL PER TYPICAL DETAIL ON S400.
S1	DENOTES NEW 4" CONC. SLAB w/ "FIBERFORCE 300" FIBERS @ 1.5 LB/C.Y. (OR EQUAL) & ES INTERNAL CURE ADMIXTURE @ 4 OZ/CWT & ES CATALYST SPRAYED ON BETWEEN 800-1,000 SF/GAL OVER 15-MIL VAPOR BARRIER OVER 6" COMPACTED GRANULAR FILL (NO. 53 STONE OR APPROVED EQUIVALENT). T/CONC. = 0'-0"
S2	DENOTES NEW 6" CONC. SLAB w/ 6x6 W2.9 x W2.9 W.W.F. & ES INTERNAL CURE ADMIXTURE @ 4 OZ/CWT & ES CATALYST SPRAYED ON BETWEEN 800-1,000 SF/GAL OVER 15-MIL VAPOR BARRIER OVER 6" COMPACTED GRANULAR FILL (NO. 53 STONE OR APPROVED EQUIVALENT). T/CONC. = 0'-0"
	DENOTES WALL FOOTING WITH STEPS, REF. TYP. DETAIL ON S400

WALL FOOTING SCHEDULE

FTG. MARK	FOOTING SIZE		FOOTING REINFORCING	
	WIDTH	DEPTH	LONGITUDINAL	TRANSVERSE
WF24	2'-0"	1'-0"	(2) #5 x CONTINUOUS	#4 x 1'-6" @ 96" O.C.
WF36	3'-0"	1'-2"	(4) #5 x CONTINUOUS	#4 x 2'-6" @ 96" O.C.

1. CENTER FOOTINGS BENEATH WALLS, U.N.O.

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ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
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Produced JMS RMD

ROBERT M. DEE REGISTERED No. 10100205 STATE OF INDIANA PROFESSIONAL ENGINEER

#	Revision	Date
A1	ADDENDUM #1	01/05/2023

5640 N Illinois St
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KEY PLAN

The Riviera Club

THE RIVIERA CLUB
EST. 1933

Aquatics Center

FOUNDATION PLAN

SF1A1

SF1A1 - FOUNDATION PLAN
2021-178.RVI_The Riviera Club_Aquatics Center
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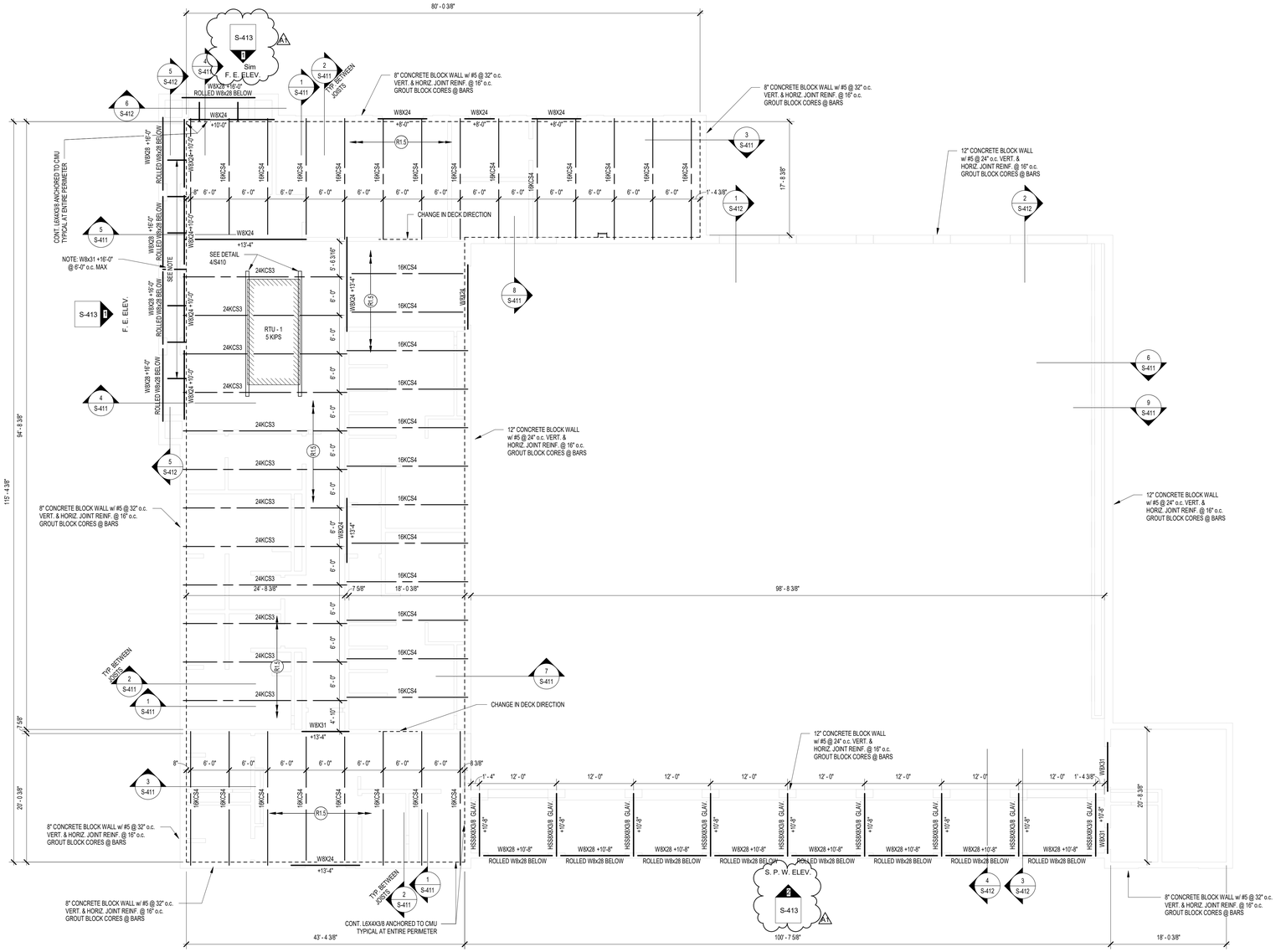

1 LOW ROOF FRAMING PLAN
1/8" = 1'-0"

FRAMING PLAN NOTES

1. REF. S-600 FOR STRUCTURAL NOTES, DESIGN DATA, SCHEDULES & LEGENDS.
2. REF. THE S-410 SERIES FOR TYPICAL FRAMING AND MASONRY DETAILS.
3. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.
4. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FIN. FLOOR ELEVATION +0'-0". COORD. USGS ELEVATION WITH CIVIL DWGS.
5. SEE FOUNDATION PLANS FOR SIZES OF STEEL COLUMNS SUPPORTED ON FOUNDATIONS.
6. INSTALL CONTINUOUS ANGLES AT ALL PERIMETER ROOF EDGES. SEE DETAIL 20/S-410 FOR ATTACHEMENT TO BEAM AND FOR ALL CONDITIONS NO SPECIFICALLY DEFINED IN FRAMING SECTIONS.
7. ALL WALLS SHALL BE LAID OUT FROM THE ARCHITECTURAL DRAWINGS.
8. REF. ARCH. DRAWINGS. FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
9. COORDINATE EXACT SIZE & LOCATION OF ANY MECHANICAL OPENINGS IN FLOOR SLAB, ROOF DECK, OR WALLS WITH THE MEP CONTRACTOR(S). LOCATION & SIZE OF ALL DUCT OPENINGS, GRILLES, ETC. SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
10. ALL ELEVATIONS SHOWN ON PLAN INDICATE TOP OF STEEL BEAM UNLESS NOTED OTHERWISE.
11. PROVIDE FRAMES AT ALL ROOF DRAINS, ROOF HATCHES & OTHER ROOF OPENINGS PER TYPICAL DETAILS ON S-410. COORD. EXACT NUMBER, LOCATIONS & DIMENSIONS WITH THE APPROPRIATE CONTRACTORS & THE ARCH. & MEP DWGS.
12. PROVIDE CMU REINFORCING AS NOTED ON PLANS. IF NOT SHOWN ON PLANS OR DETAILS, MINIMUM CMU WALL REINFORCING TO BE #5 VERTS @ 48" O.C. PROVIDE OPEN-CORE BOND BEAMS AT TOPS OF WALLS, AT CHANGES IN CMU THICKNESS, AND WHERE INDICATED ON PLANS & SECTIONS (10'-0" O.C. MAX VERTICAL SPACING). PROVIDE 1/2 OF INTERRUPTED VERTICALS AT JAMBS OF OPENINGS AND PROVIDE ADDITIONAL VERT'S. AT ENDS OF WALLS.
13. ALL MASONRY BOND BEAMS, OTHER THAN BOND BEAM LINTELS OVER OPENINGS, SHALL BE "OPEN-CORE" BOND BEAMS TO ALLOW VERTICAL REINFORCING TO PASS THROUGH, UNLESS NOTED OTHERWISE.
14. REF. ARCH. DWGS. FOR MASONRY CONTROL & EXPANSION JOINT LOCATIONS.
15. ALL HORIZONTAL AND DIAGONAL BRIDGING FOR STEEL JOISTS SHALL BE DESIGNED, LOCATED & PROVIDED BY THE JOIST SUPPLIER PER SJI SPECIFICATIONS.
16. PLAN LEGEND:

F.F.	DENOTES FIN. FLOOR
T/'X'	DENOTES TOP OF STEEL, SLAB, ETC.
B/'X'	DENOTES BOTTOM OF LINTEL, ETC.
E.O.D. (or EOD)	DENOTES EDGE OF DECK (MEASURED FROM BEAM C.L.) NOTE: PERIMETER ROOF ANGLE/BENT PL NOT REQUIRED
E.O.L. (or EOL)	DENOTES EDGE OF ANGLE (MEASURED FROM BEAM C.L.) SEE TYPICAL DETAIL B/S-410
R1.5	DENOTES 1½", 20 GA. GALVANIZED WIDE RIB STEEL ROOF DECK REF. DETAIL 1/S410.
R4	DENOTES 4", 20 GA. TORIS 4A ACOUSTIC ROOF DECK BY EPIC METALS GALVANIZED AND PRIME PAINTED w/ EPIC'S NATACOAT SYSTEM. DECK. REF. DETAIL 2/S410.

23. WIDE-FLANGE BEAM & GIRDER NOTATION:

REF. THE STEEL CONNECTION NOTES ON S001 FOR DESIGN OF CONNECTIONS AT BEAMS & GIRDERS WITH NO REACTION SHOWN. THE MIN. SHEAR CONNECTION DESIGN LOAD SHALL BE 15 KIPS.

STEEL BEAM SIZE → W16x31

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ASSOCIATES
415 Massachusetts Avenue
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ROBERT M. DEE REGISTERED No. 10100205 STATE OF INDIANA PROFESSIONAL ENGINEER

#	Revision	Date
A1	ADDENDUM #1	01/05/2023

5640 N Illinois St
Indianapolis, IN 46208

KEY PLAN

The Riviera Club

THE RIVIERA CLUB
EST. 1933

Aquatics Center

LOW ROOF FRAMING PLAN

SF1AL

SF1AL - LOW ROOF FRAMING PLAN
2021-178.RVI_The Riviera Club_Aquatics Center_
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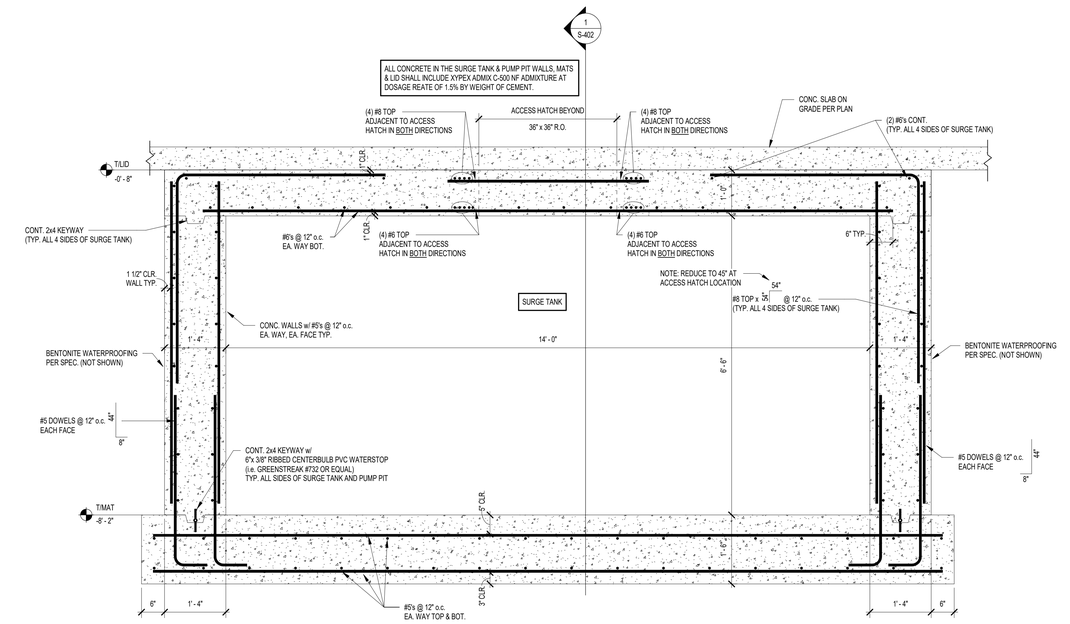
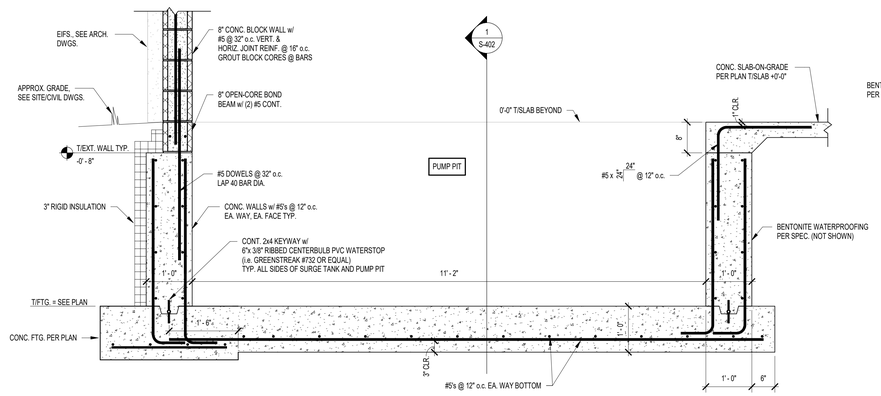
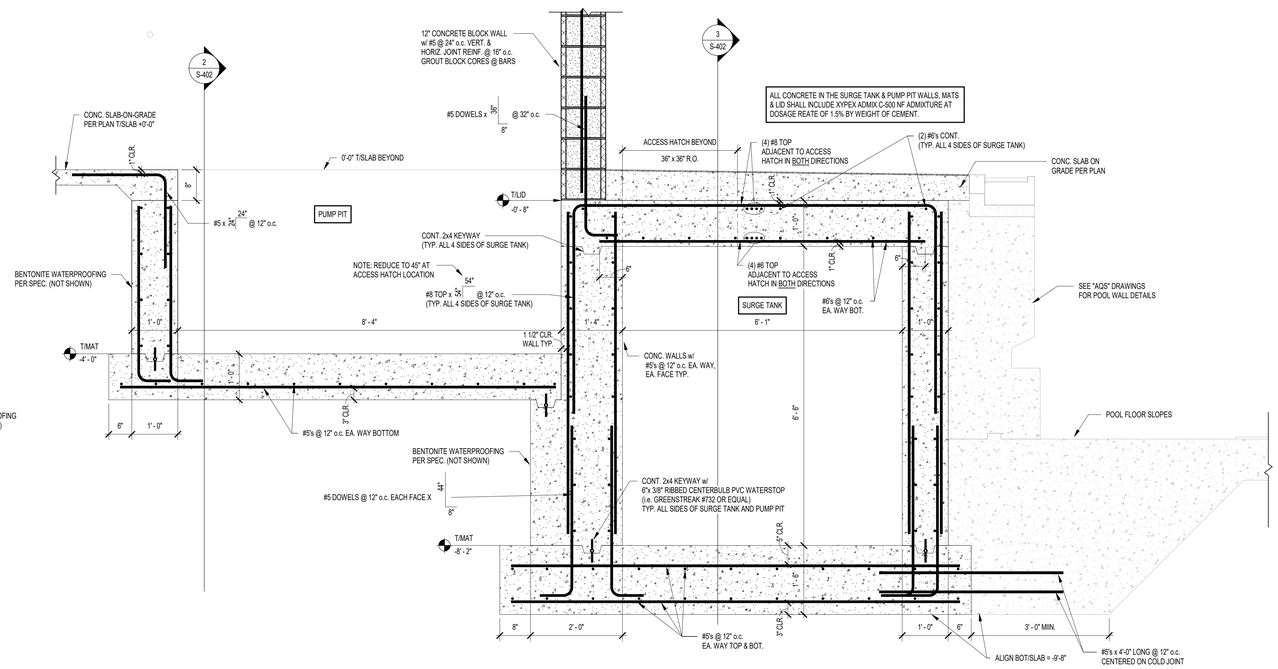


3 FOUNDATION SECTION
3/4" = 1'-0"



2 FOUNDATION SECTION
3/4" = 1'-0"



1 FOUNDATION SECTION
3/4" = 1'-0"

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415 Massachusetts Avenue
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KEY PLAN

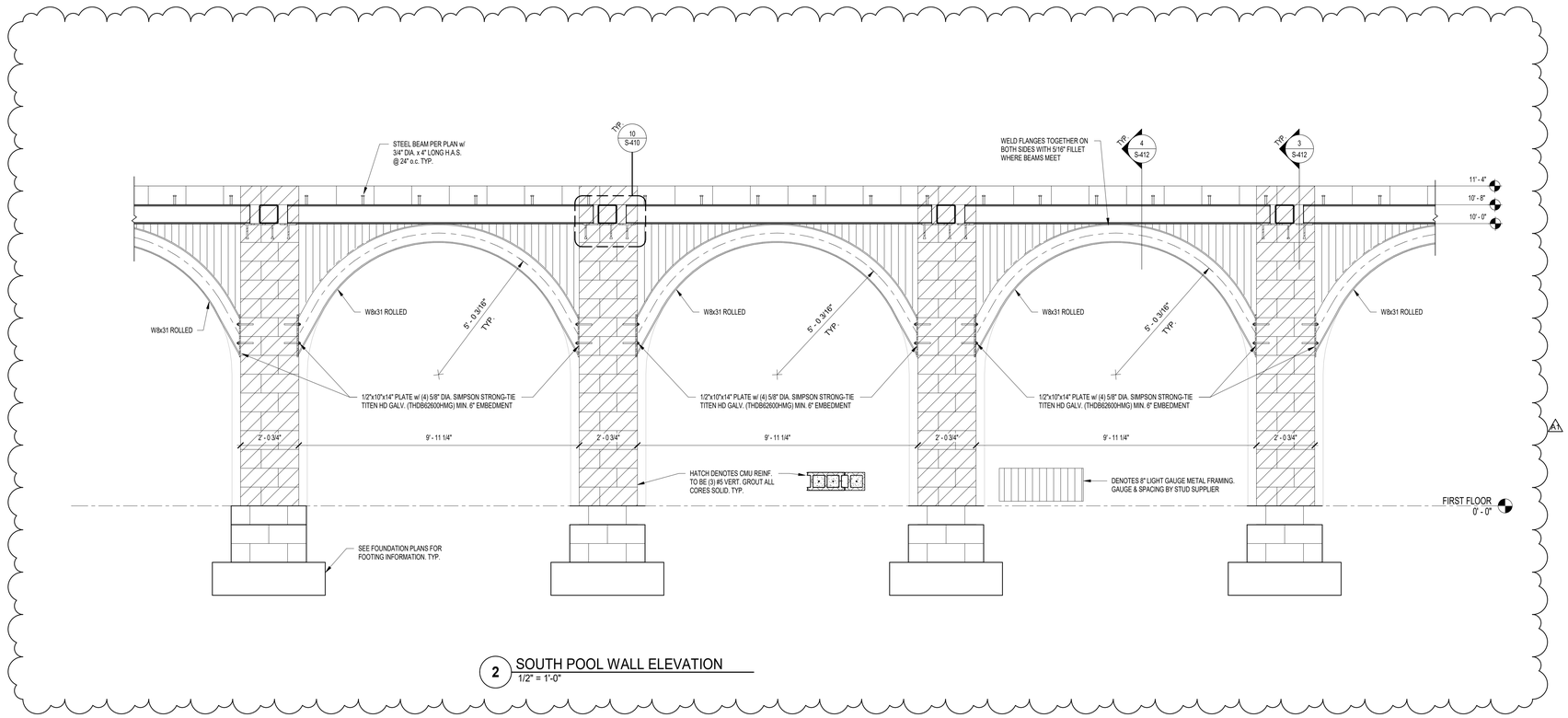
The Riviera Club

THE RIVIERA CLUB EST. 1933

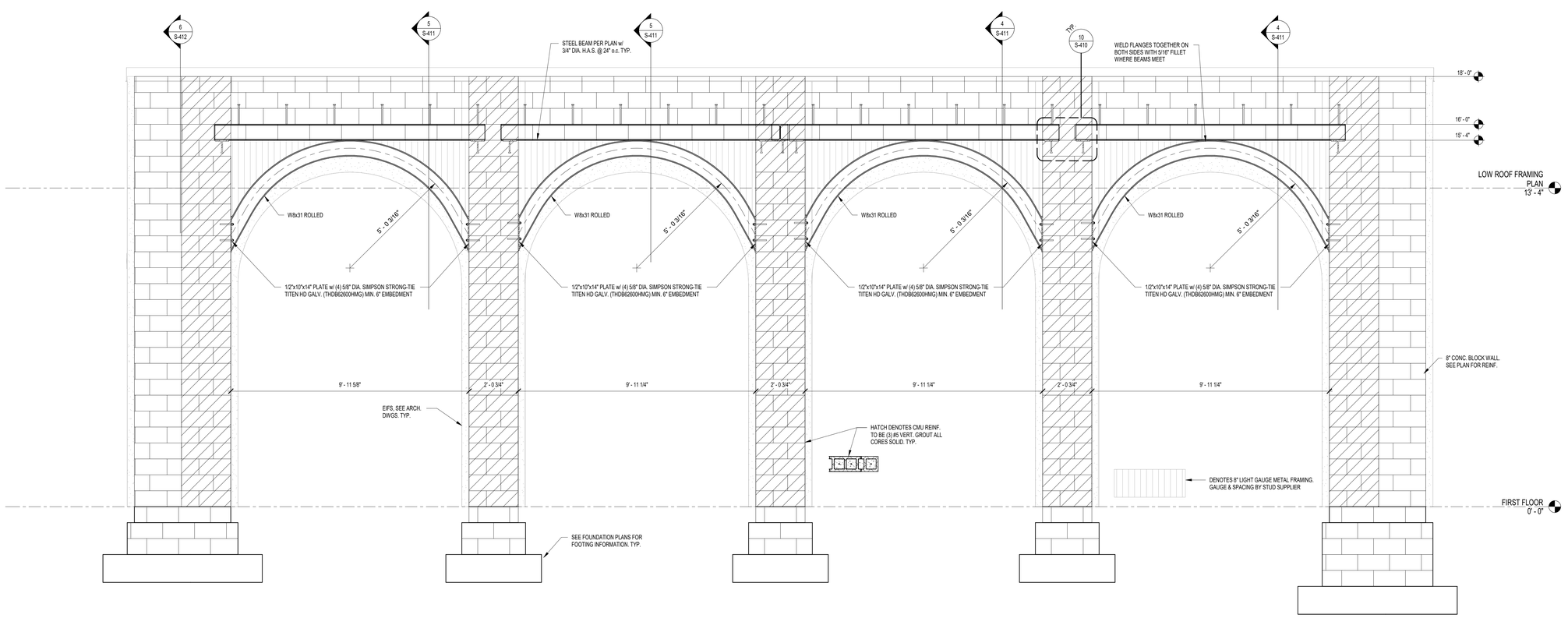
Aquatics Center

FOUNDATION SECTIONS & DETAILS

S-402



2 SOUTH POOL WALL ELEVATION
1/2" = 1'-0"



1 FRONT ENTRANCE ELEVATION
1/2" = 1'-0"

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FRAMING ELEVATIONS

S-413

S-413_ FRAMING ELEVATIONS
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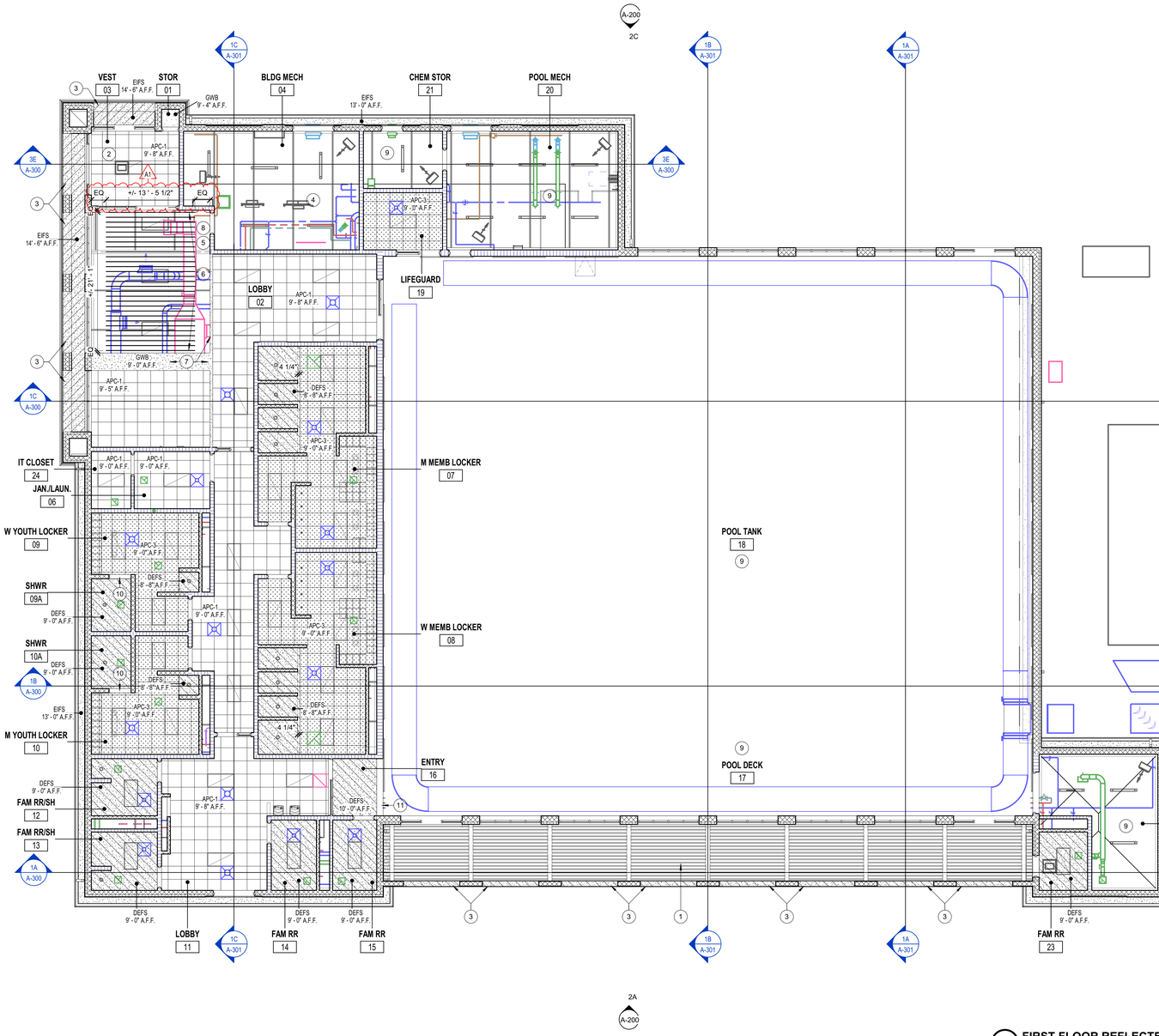

2A **FIRST FLOOR REFLECTED CEILING PLAN**
1/8" = 1'-0"

General Refl. Ceiling Plan Notes

A. All ceilings are at 9'-0" AFF, unless noted otherwise.

B. All bulkheads are at 8'-10" AFF, unless noted otherwise.

C. All grids are centered in rooms, unless noted otherwise.

D. All exposed ductwork, piping etc. shall be painted. Color selected by Architect.

E. Locate sprinkler heads in center of ceiling panel - where applicable.

REFLECTED CEILING PLAN LEGEND

APC-3	2' X 2' Humidity Resistant Acoustical Panel Ceiling (09 51 13)	Light Fixture (Reference E-Series Dwgs)	
APC-4	2' X 2' Acoustical Panel Ceiling (09 51 13)	Return Air (Reference M-Series Dwgs)	
DEFS	Direct-Applied Finish System on Suspension System (07 24 13.99)	Supply Air (Reference M-Series Dwgs)	
EIFS	Exterior Insulation & Finish System on Suspension System (07 24 19)	Exit Light (Reference E-Series Dwgs)	
GWB	5/8" GWB on Grid Suspension System (09 22 16)	Recessed Light Fixture Suspended Fixture in Areas with Exposed Ceilings (Reference E-Series Dwgs)	
Walls to Deck		SOUND SYSTEM SPEAKER (REFERENCE E-SERIES/T-SERIES DWGS)	S

REFLECTED CEILING PLAN NOTES

#	NOTE
1	PERGOLA
2	PROVIDE HOLD-DOWN CLIPS AT VESTIBULE APC SYSTEM
3	ARCHED SURFACE. REFER TO ELEVATIONS.
4	NO CEILING. EXPOSED DECK AND STRUCTURE, PAINTED.
5	ON EXPOSED CEILING SIDE OF BULKHEAD EXTEND GWB TO DECK. PROVIDE 1/2" HORIZONTAL PAINTABLE REVEAL AT 9'-8" AFF TO ALLOW FOR TRANSITION OF COLOR (BLACK AT & ABOVE REVEAL). TRANSITION COLOR AT SAME ELEVATION ON CMU WALLS.
6	ACOUSTICAL CEILING BLADES. BASIS-OF-DESIGN: TORRENT BY TURF. PANEL DEPTH: 11.5 INCHES. BLADE SPACING: 9 INCHES ON CENTER. TOP OF BLADES AT 9'-8" AFF. SUSPEND CABLES FROM DECK ABOVE.
7	EXPOSED SIDES OF BULKHEAD TO BE PAINTED, HP-4 (DARK BLUE).
8	099600.99 - NO CEILING. EXPOSED ITEMS INCLUDING, BUT NOT LIMITED TO, DECK, STRUCTURE, CONDUIT, & DUCTWORK SHALL BE PAINTED HP-6 (BLACK) WITH HIGH PERFORMANCE COATING.
9	099600.99 - NO CEILING. PAINT EXPOSED DECK & STRUCTURE WITH HIGH PERFORMANCE COATING.
10	BOTTOM OF MASONRY OPENING AT 7'-4" AFF.
11	BOTTOM OF MASONRY OPENING AT 9'-4" AFF.

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

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SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

#	Revision	Date
A1	ADDENDUM 1	01.05.2023

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KEY PLAN

The Riviera Club

THE RIVIERA CLUB
EST. 1933

Aquatics Center

FIRST FLOOR REFLECTED CEILING PLAN - UNIT A

AC1A1

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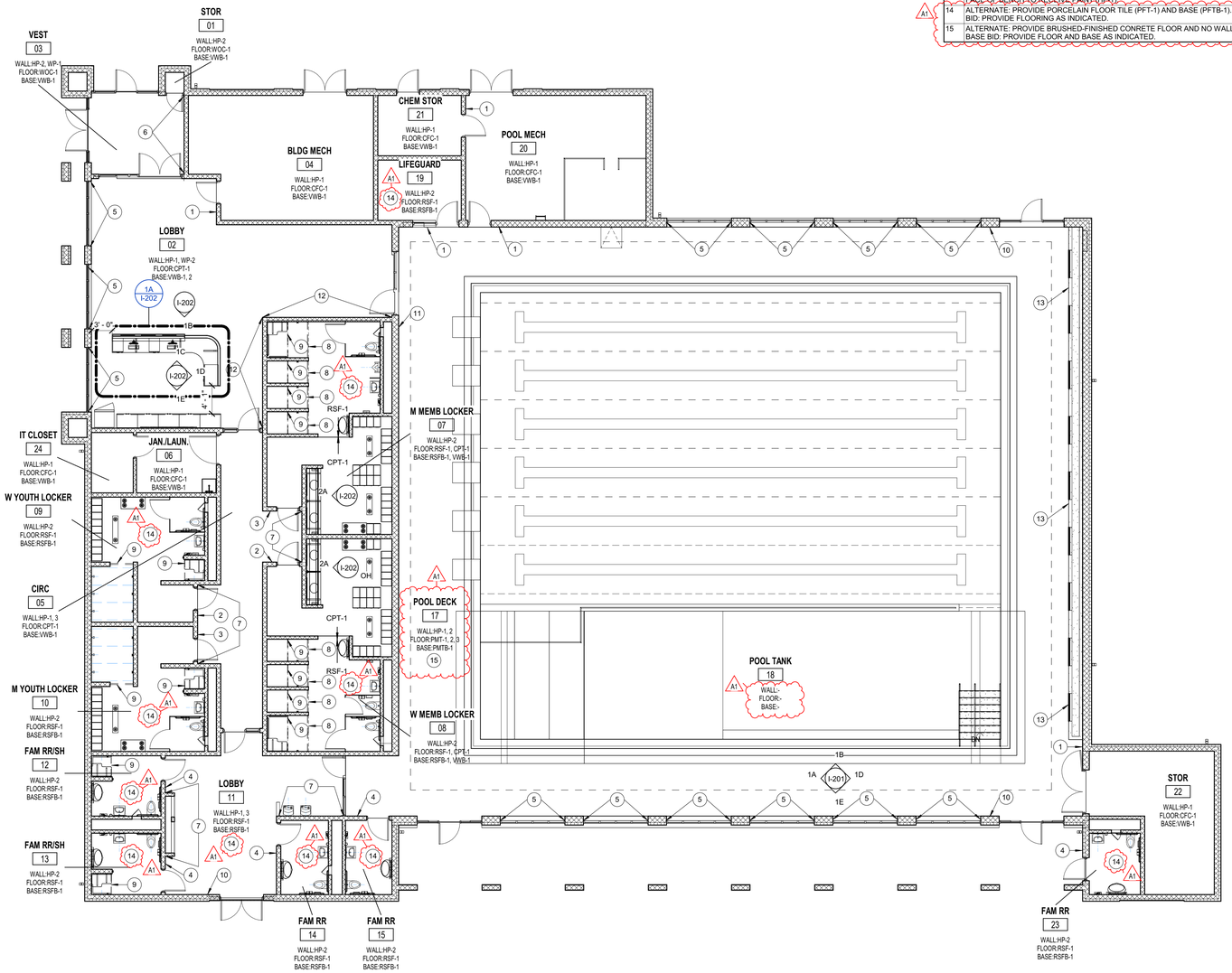
5.5.100 - INTERIOR FINISH LEGEND

APPLICATION	SPEC.	MARK	DESCRIPTION	MANUFACTURER	COLLECTION/PATTERN	COLOR	COMMENTS
FLOORING							
FLOORING	09 30 00	PMT-1	PORCELAIN MOSAIC TILE	DALTILE	KEYSTONES	WHEAT BLEND DK21	SIZE: X BY X INCHES; INSTALL:
FLOORING	09 30 00	PMTB-1	PORCELAIN MOSAIC TILE BASE	DALTILE	KEYSTONES	WHEAT BLEND DK21	SIZE: X BY X INCHES; INSTALL:
FLOORING	09 30 00	PMT-2	PORCELAIN MOSAIC TILE	DALTILE	KEYSTONES	BERRY BLEND DK24	-
A1 FLOORING	09 30 00	PFT-1	ALTERNATE: PORCELAIN FLOOR TILE	CROSSVILLE	RETRO ACTIVE	TO BE SELECTED FROM MANUFACTURER'S STANDARD SELECTION	SIZE: 12 BY 24 INCHES; UNPOLISHED FINISH
FLOORING	09 30 00	PFTB-1	ALTERNATE: PORCELAIN FLOOR TILE BASE	CROSSVILLE	RETRO ACTIVE	TO BE SELECTED FROM MANUFACTURER'S STANDARD SELECTION	SIZE: 6 BY 12 INCHES; COVE BASE
FLOORING	09 65 13	VWB-1	VINYL WALL BASE	TARKETT	TRADITIONAL WALL BASE	BURNT UMBER 63	SIZE: 6" COVE BASE IN COIL FORM.
FLOORING	09 65 13	VWB-2	VINYL WALL BASE	TARKETT	TRADITIONAL WALL BASE	BURNT UMBER 63	SIZE: 4" COVE BASE IN COIL FORM; LOCATE AT BASE CABINETS.
FLOORING	09 67 23.13	CFC-1	CONCRETE FLOOR COATING [LEVEL 1]	SHERWIN WILLIAMS	EPOXY 3746	TO BE SELECTED FROM MANUFACTURER'S STANDARD SELECTION	-
FLOORING	09 67 23.17	RSF-1	RESINOUS FLOORING [LEVEL 3]	SHERWIN WILLIAMS	RESUFLOR QUARTZ	WINTER SKY	-
FLOORING	09 67 23.17	RSFB-1	RESINOUS FLOORING BASE [LEVEL 3]	SHERWIN WILLIAMS	RESUFLOR QUARTZ	WINTER SKY	-
FLOORING	09 68 13	CPT-1	CARPET TILE (FIELD)	A1 PHILADELPHIA	IMMERSE	FOCUS 87400	SIZE: 24 BY 24 INCHES; INSTALL QUARTER TURN
FLOORING	09 68 13	WOC-1	WALK-OFF CARPET	J&J INVISION	CATWALK II	PHOTO OP 1429	SIZE: 24 BY 24 INCHES; INSTALL: QUARTER TURN
FURNISHINGS							
FURNISHINGS	06 40 23	PL-1	PLASTIC LAMINATE	ARBORITE	-	ARCTIC SNOW	LOCATION(S): GENERAL CABINETRY
FURNISHINGS	06 40 23	PL-2	PLASTIC LAMINATE	ARBORITE	-	CHAMBRAY FUSAIN	LOCATION(S): GENERAL COUNTERTOP
FURNISHINGS	06 40 23	PL-3	PLASTIC LAMINATE	ARBORITE	-	CHAMBRAY GRIS	-
FURNISHINGS	06 40 23	PL-4	PLASTIC LAMINATE	FORMICA	-	MATRIX BLUE (GLOSS)	-
FURNISHINGS	12 24 13	RWS-1	ROLLER WINDOW SHADES	DRAPER	-	TO BE SELECTED FROM MANUFACTURER'S STANDARD SELECTION	-
FURNISHINGS	12 32 00	PL-5	PLASTIC LAMINATE	ARBORITE	-	CHAMBRAY OMBRE P414 CA	-
FURNISHINGS	12 36 61.66	SS-1	SOLID SURFACE (LAVATORY)	WILSONART	-	MORNING ICE 9204CE	-
FURNISHINGS	12 36 61.66	SS-2	SOLID SURFACE (WINDOW STOOL)	WILSONART	-	MORNING ICE 9204CE	-
WALLS							
WALLS	09 96 00.99	HP-1	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS	-	GOSSAMER VEIL SW9165	-
WALLS	09 96 00.99	HP-2	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS	-	ACIER SW9170	-
WALLS	09 96 00.99	HP-3	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS	-	DYNAMIC BLUE SW6958	-
WALLS	09 96 00.99	HP-4	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS	-	DRESS BLUES SW9176	-
WALLS	09 96 00.99	HP-5	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS	-	TO BE SELECTED FROM MANUFACTURER'S STANDARD SELECTION	DOOR FRAME PAINT COLOR.
WALLS	09 96 00.99	HP-6	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS	-	IRON ORE SW7069	
WALLS	10 26 00	WP-2	WALL PROTECTION PANELS	CONSTRUCTION SPECIALTIES	ACROVYN BY DESIGN	CUSTOM DESIGN 1	HISTORIC PHOTOGRAPH - POSTERIZED AND COLORIZED TO MATCH HP-3.
WALLS	10 26 00	WP-1	WALL PROTECTION PANELS	CONSTRUCTION SPECIALTIES	ACROVYN BY DESIGN	CUSTOM DESIGN 2	HISTORIC PHOTOGRAPH - POSTERIZED AND COLORIZED TO MATCH HP-3.



2A **FIRST FLOOR INTERIOR PLAN**
1/8" = 1'-0"

Interior General Notes

Reference A-001 for general plan notes. All notes may not apply to this sheet.

A. Furniture is not provided in this contract. Layouts and final design will need to be determined by the owner.

B. Reference architectural ceilings plans for ceiling heights and bulkhead color designations. Paint all bulkheads P-1 unless specifically noted otherwise. Bulkheads that are flush with walls provide color to match adjacent wall color.

C. Paint interior hollow metal door frames and all stair assembly HP-4.

D. Paint general walls HP-1 or P-1 (Neutral) unless specifically noted otherwise.

E. Appliances and vending equipment are not provided in this contract.

F. Do not install vinyl wall base on interior brick unless specifically noted othwerwise. Provide a caulk joint at floor level.

G. Provide vinyl wall base around all casework unless specificlaly noted otherwise.

INTERIOR FLOOR PLAN NOTES

#	NOTE
1	10 14 00 - INTERIOR PANEL SIGN TYPE A.
2	10 14 00 - INTERIOR PANEL SIGN TYPE B.
3	10 14 00 - INTERIOR PANEL SIGN TYPE C.
4	10 14 00 - INTERIOR PANEL SIGN TYPE D.
5	12 24 13 - MANUAL ROLLER SHADES.
6	10 26 00 - EXTENT OF WALL TO RECEIVE WALL PROTECTION PANELS, WP-2 - CUSTOM GRAPHIC. PROVIDE MANUFACTURERS STANDARD TRIM AT OUSTIDE CORNERS.
7	09 96 00.99 - EXTENT OF WALL TO RECIEVE ACCENT WALL PAINT, HP-3.
8	10 28 00 - PRIVACY CURTAIN, PC-1 ON HANGING ROD.
9	10 28 00 - SHOWER CURTAIN, SC-1 ON HANGING ROD.
10	10 14 00 - INTERIOR PANEL SIGN TYPE E.
11	10 14 00 - INTERIOR PANEL SIGN TYPE F.
12	10 26 00 - EXTENT OF WALL TO RECEIVE WALL PROTECTION PANELS, WP-2 - CUSTOM GRAPHIC. PROVIDE MANUFACTURERS STANDARD TRIM AT OUSTIDE CORNERS.
13	09 96 00.99 - VERTICAL SURFACE OF BENCH TO RECIEVE PAINT (HP-2). HORIZONTAL FACE OF BENCH TO RECEIVE PAINT (HP-1).
A1 14	ALTERNATE: PROVIDE PORCELAIN FLOOR TILE (PFT-1) AND BASE (PFTB-1). BASE BID: PROVIDE FLOORING AS INDICATED.
15	ALTERNATE: PROVIDE BRUSHED-FINISHED CONRETE FLOOR AND NO WALL BASE. BASE BID: PROVIDE FLOOR AND BASE AS INDICATED.

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

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SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

Sarah K Hempstead

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A1	ADDENDUM 1	01.05.2023

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KEY PLAN

The Riviera Club

THE RIVIERA CLUB
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FIRST FLOOR INTERIOR FINISH PLAN

IN1A1

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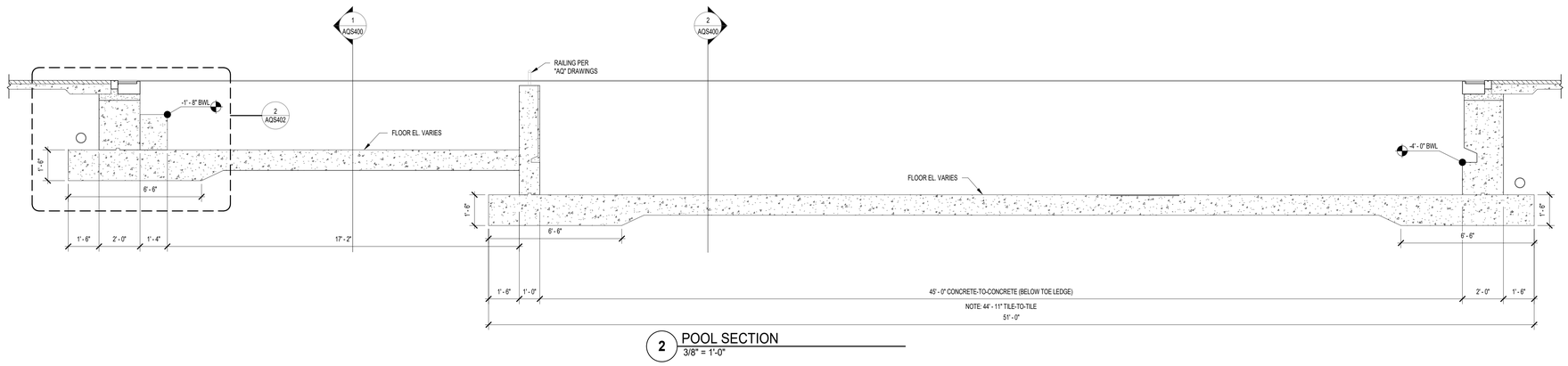
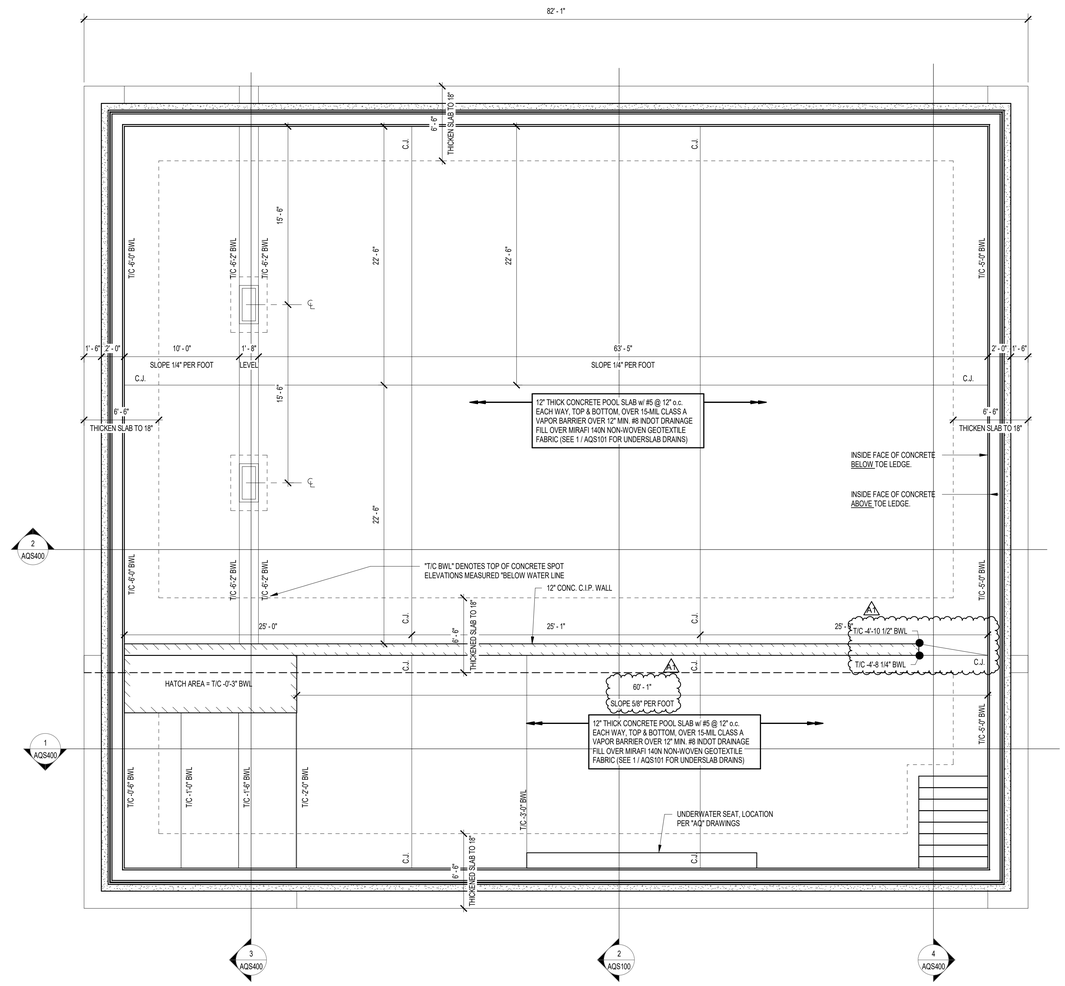


2 POOL SECTION
3/8" = 1'-0"

POOL TANK GENERAL NOTES:

1. USE INTERIOR CONCRETE MIX DESIGN (SEE S-A00) (FIBERS NOT REQUIRED) AND INCLUDE CORROSION-INHIBITING ADMIXTURE (DCI/DCI-S BY W.R. GRACE OR APPROVED EQUAL) AT A DOSAGE OF 2.0 GALLONS/C.Y. IN THE CONCRETE WALLS AND BASE SLAB.
2. COORDINATE ALL CONCRETE EMBEDS WITH VARIOUS EQUIPMENT SUPPLIERS PRIOR TO FORMWORK INSTALLATION (i.e. DRAIN COVERS, GUTTER SYSTEM, MOVABLE BULKHEAD, ETC).
3. THE WATER TABLE ELEVATION MUST BE KEPT BELOW THE BASE OF THE POOL AT ALL TIMES PRIOR TO FILLING THE POOL TANK WITH WATER AND ANYTIME THAT THE POOL WATER IS DRAINED. GROUNDWATER IS INTENDED TO BE PUMPED THROUGH THE DEWATERING WELL AND UNDERSLAB DRAINS.

NOTE: ALL ELEVATIONS IN THE "AQS" DRAWINGS ARE GIVEN WITH RESPECT TO THE WATER LINE ELEVATION (i.e. BWL = BELOW WATER LINE & AWL = ABOVE WATER LINE). THE WATER LINE ELEVATION IS 1 3/4" BELOW THE BUILDING FFE +0'-0". THEREFORE, SUBTRACT 1 3/4" FROM ALL GIVEN ELEVATIONS TO OBTAIN THE CORRESPONDING ELEVATIONS WITH RESPECT TO BUILDING FFE +0'-0".



1 FOUNDATION PLAN
3/16" = 1'-0"

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ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
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KEY PLAN

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POOL STRUCTURAL PLAN & ELEVATION

AQS100

AQS100_ POOL STRUCTURAL PLAN & ELEVATION
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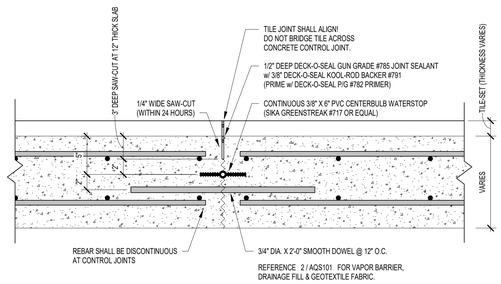
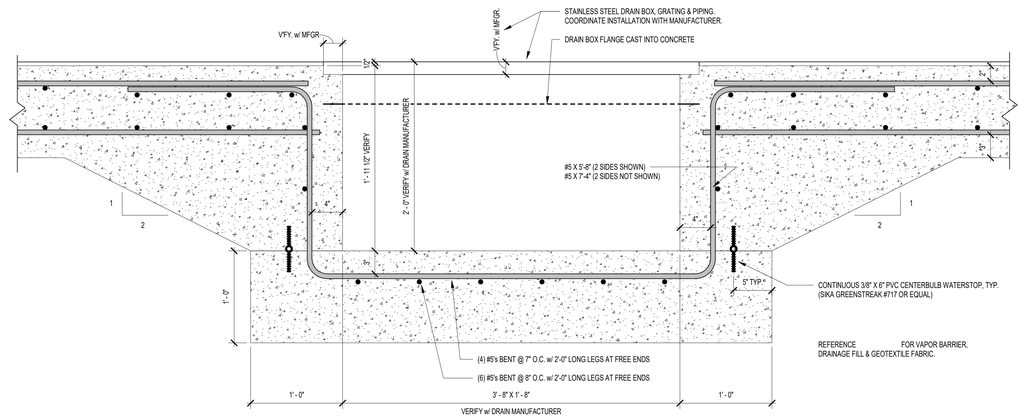
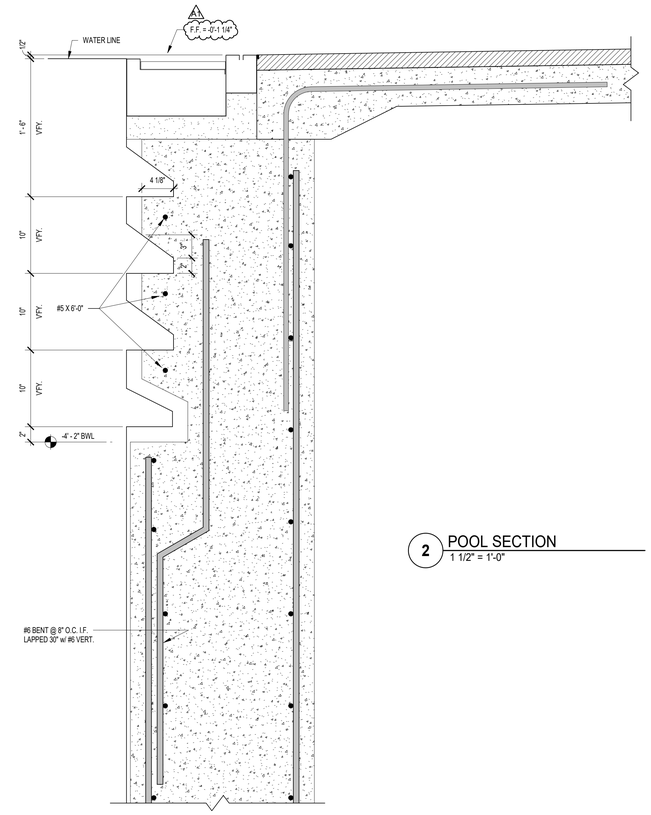


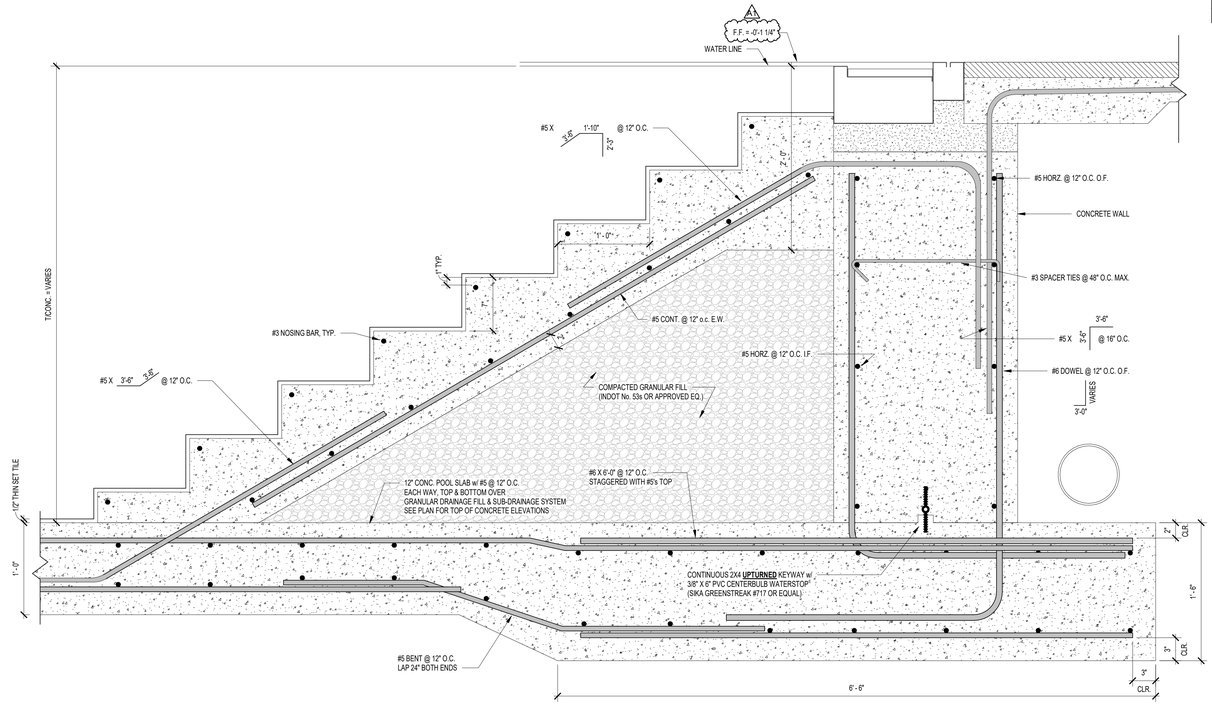
4 TYPICAL CONTROL JOINT DETAIL
1 1/2" = 1'-0"



3 TYPICAL DRAIN DETAIL
1 1/2" = 1'-0"

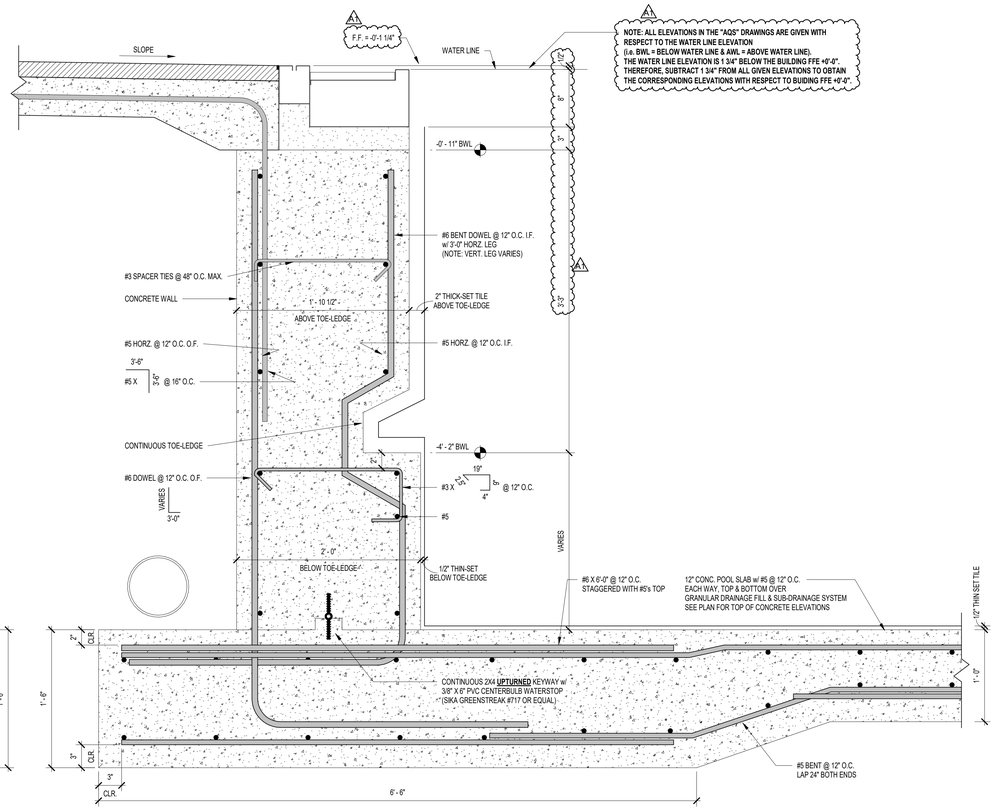


2 POOL SECTION
1 1/2" = 1'-0"



REFERENCE 2 / AQS101 FOR VAPOR BARRIER, EXTENTS OF DRAINAGE FILL, & GEOTEXTILE FABRIC INFO.

5 POOL SECTION
1 1/2" = 1'-0"



REFERENCE 2 / AQS101 FOR VAPOR BARRIER, EXTENTS OF DRAINAGE FILL, & GEOTEXTILE FABRIC INFO.

1 POOL SECTION
1 1/2" = 1'-0"

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2021-178.RVI
Project Date 12.05.2022
Produced JMS RMD

ROBERT M. DEE
REGISTERED
No. 10100205
STATE OF INDIANA
PROFESSIONAL ENGINEER

#	Revision	Date
A1	ADDENDUM #1	01/05/2023

5640 N Illinois St
Indianapolis, IN 46208

KEY PLAN

N

The Riviera Club

THE RIVIERA CLUB
EST. 1933

Aquatics Center

POOL STRUCTURAL
SECTIONS & DETAILS

AQS401

AQS401 - POOL STRUCTURAL SECTIONS & DETAILS
2021-178.RVI_The Riviera Club_Aquatics Center_
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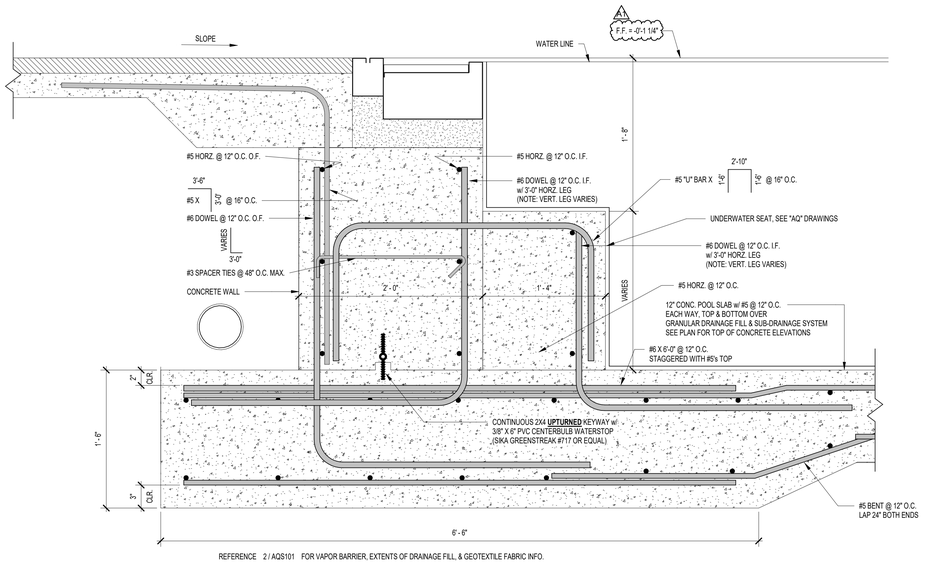

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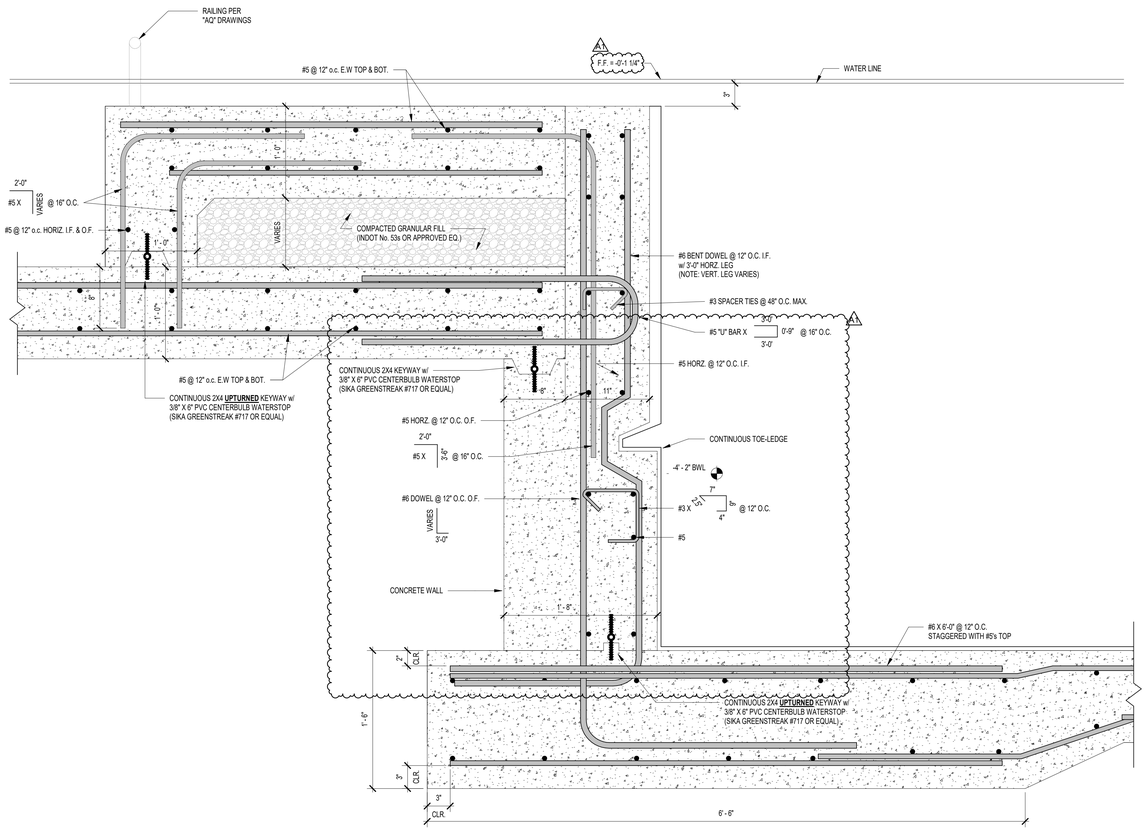

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The Riviera Club

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Aquatics Center

POOL STRUCTURAL SECTIONS

AQS402

VENTILATION SCHEDULE

Room	Design occupancy	Required minimum ventilation airflow			
	(People)	(cfm)	(cfm/person)	(cfm/ft²)	(ACH)
101 CHEM STOR	0.0	22.8	0.0	0.12	0.51
103 VEST	0.0	6.1	0.0	0.06	0.26
104 LIFEGAURD	4.2	31.1	7.4	0.18	0.79
105 MENS LOCKER	5.8	151.5	26.0	0.26	1.11
106 WOMENS LOCKER	5.9	152.5	26.0	0.26	1.11
107 VEST	0.0	12.9	0.0	0.06	0.26
108 SWIM LOCKER WOMEN	4.6	118.7	26.0	0.26	1.11
109 SWIM LOCKER MEN	3.5	91.1	26.0	0.26	1.11
110 LOBBY	160.9	868.8	5.4	0.81	4.86
111 FAM RR 31	0.0	0.0	0.0	0.00	0.00
112 FAM RR 30	0.0	0.0	0.0	0.00	0.00
116 LOBBY	68.2	368.3	5.4	0.81	3.47
115 ENTRY	0.0	4.2	0.0	0.06	0.26
114 FAM RR 37	0.0	0.0	0.0	0.00	0.00
113 FAM RR 4	0.0	0.0	0.0	0.00	0.00

GENERAL NOTES

A REFER TO SHEET M000 FOR GENERAL MECHANICAL NOTES, SYMBOLS AND ABBREVIATIONS.

B REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR FINAL LOCATIONS OF AIR OUTLETS AND INLETS. ADJUST BRANCH DUCTWORK AS REQUIRED.

C DUCT RUNOUTS TO TERMINAL UNITS SHALL BE TWO DIAMETERS LARGER THAN TERMINAL UNIT CONNECTION SIZE UNLESS NOTED OTHERWISE.

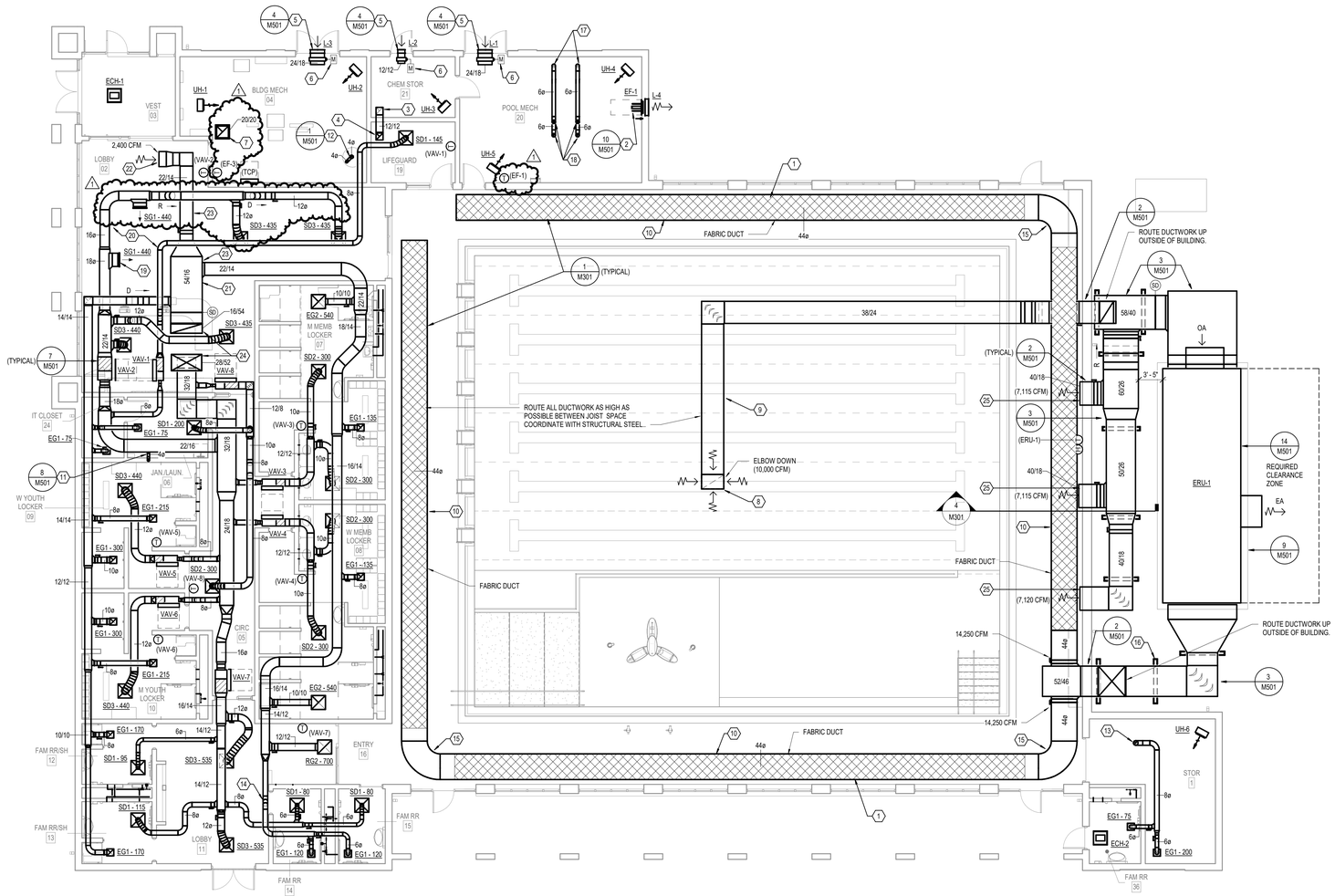
D CONTRACTOR SHALL PROVIDE ALL BALANCE DAMPERS AS REQUIRED TO PROVIDE A COMPLETE AND BALANCED SYSTEM.

E ALL DUCTWORK, DIFFUSERS AND GRILLES IN "WET AREAS" SHALL BE ALUMINUM CONSTRUCTION UNLESS NOTED OTHERWISE.

F ALL HANGERS, SUPPORTS AND MISCELLANEOUS ACCESSORIES IN POOL BUILDING AND POOL CHEMICAL ROOMS SHALL HAVE A CHLORINE RESISTANT COATING FOR USE IN INDOOR POOLS.

SHEET KEYNOTES

1 DIRECT A PORTION OF NOZZLES TOWARDS EXTERIOR WALLS AND WINDOWS.
2 SIDEWALL MECHANICAL ROOM VENTILATION FAN. MOUNT CENTERLINE OF FAN AT APPROXIMATELY 10'-0" AFF. COORDINATE WITH STRUCTRUAL, ARCHITECTURAL AND POOL EQUIPMENT DRAWINGS.
3 TERMINATE ALUMINUM DUCT WITH WIRE MESH SCREEN AT 18" AFF. PROVIDE CHLORINE RESISTANT COATING ON THE INSIDE AND OUTSIDE OF DUCTWORK AND ON ALL VOLUME DAMPERS AND MISCELLANEOUS ACCESSORIES.
4 OFFSET DUCT UP TO EF-4 ON ROOF. PROVIDE CHLORINE RESISTANT COATING ON THE INSIDE AND OUTSIDE OF DUCTWORK AND ON ALL VOLUME DAMPERS AND MISCELLANEOUS ACCESSORIES.
5 CENTER LOUVER ABOVE DOOR. COORDINATE EXACT LOCATION WITH ARCHITECTURAL AND
6 INTERLOCK MOTORIZED DAMPER WITH ASSOCIATED EXHAUST FAN OPERATION. 120 V CONNECTION BY EC.
7 OPEN ENDED EXHAUST AIR DUCT WITH WIRE MESH SCREEN UP THROUGH ROOF TO EF-3. TERMINATE DUCT JUST BELOW ROOF DECK.
8 OPEN ENDED RETURN AIR DUCT. MOUNT 3/4" OPENINGS FLUSH WITH BOTTOM OF JOISTS.
9 MOUNT RETURN AIR DUCT UP IN JOIST SPACE BETWEEN WEBBING. COORDINATE LOCATION WITH STRUCTURAL STEEL. PROVIDE CHLORINE RESISTANT COATING ON ALL MISCELLANEOUS ACCESSORIES.
10 MOUNT FABRIC DUCT UP IN JOIST SPACE BETWEEN WEBBING. COORDINATE LOCATION WITH STRUCTURAL STEEL.
11 4" DRYER VENT UP THROUGH ROOF. CONFIRM SIZE WITH DRYER MANUFACTURER.
12 4" FLUE AND 4" INTAKE FOR WATER HEATER. CPVC OR MANUFACTURER APPROVED VENT AND INTAKE UP THROUGH ROOF. TERMINATE WITH CONCENTRIC FLUE FITTING.
13 8" EXHAUST AIR DUCT UP TO EF-5 ON ROOF.
14 OFFSET DUCT AS REQUIRED.
15 ALL ELBOWS SHALL BE ALUMINUM RIGID DUCTWORK.
16 DUCT SUPPORTS AS REQUIRED, TYPICAL.
17 6" DIAMETER FLUE AND 6" DIAMETER INTAKE DOWN TO POOL HEATER. CONFIRM SIZING AND REQUIREMENTS WITH POOL HEATER MANUFACTURER. SEE AQUATIC PLANS FOR MORE INFORMATION.
18 6" DIAMETER FLUE AND 6" DIAMETER INTAKE UP THROUGH ROOF. CONFIRM SIZING AND REQUIREMENTS WITH POOL HEATER MANUFACTURER. SEE AQUATIC PLANS FOR MORE INFORMATION.
19 MOUNT SUPPLY AIR GRILLES OFF SIDE OF DUCT ABOVE THE ACOUSTICAL VERTICAL PANELS IN THIS AREA. TYPICAL.
20 SPIRAL DUCTWORK WITH PAINT GRIP FINISH. TO BE PAINTED BY OTHERS. COLOR SELECTION BY ARCHITECT.
21 DUCTWORK ABOVE VERTICAL ACOUSTICAL PANELS SHALL HAVE PAINT GRIP FINISH. PAINT BY OTHERS. COLOR SELECTION BY ARCHITECT.
22 OPEN ENDED RETURN AIR DUCT WITH WIRE MESH SCREEN ABOVE ACOUSTICAL PANELS.
23 ALL RETURN/EXHAUST AIR DUCT ABOVE EXPOSED ACOUSTICAL PANEL CEILINGS SHALL BE INTERNALLY LINED.
24 UP TO ERU-2 ON ROOF.
25 ROUTE RETURN AIR DUCT DOWN LOW TO BE STUB WITHIN BACK OF BENCH SEATING. COORDINATE LOCATIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS. THE FROT OF THE BENCH WILL HAVE A RETURN AIR OPENING ALONG THE LENGTH OF THE BENCH TO ALLOW FOR LOW RETURN AIR PATH.



1 FIRST FLOOR MECHANICAL PLAN
1/8" = 1'-0"

SCHMIDT ASSOCIATES
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Indianapolis, IN 46204
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Project No. 2021-178.RVI
Project Date 12.05.2022
Produced CME CME

JOYCE ELLEN JONES REGISTERED No. PE60920263 STATE OF INDIANA PROFESSIONAL ENGINEER

#	Revision	Date
	Addendum #1	01/05/2023

5640 N Illinois St
Indianapolis, IN 46208

KEY PLAN

The Riviera Club

Aquatics Center

FIRST FLOOR MECHANICAL PLAN

M101

AIR TO AIR ENERGY RECOVERY UNIT SCHEDULE

UNIT ID	AIR CAPACITY: SUPPLY CFM	AIR CAPACITY: MIN. OUTSIDE AIR CFM	AIR CAPACITY: EXHAUST CFM	PLATE EXCHANGER MODEL	SUMMER DESIGN CONDITIONS: EAT DB	SUMMER DESIGN CONDITIONS: EAT WB	SUMMER DESIGN CONDITIONS: LAT DB	SUMMER DESIGN CONDITIONS: LAT WB	WINTER DESIGN CONDITIONS: EAT DB	WINTER DESIGN CONDITIONS: EAT WB	WINTER DESIGN CONDITIONS: LAT DB	WINTER DESIGN CONDITIONS: LAT WB	SUPPLY FAN DATA: TYPE	SUPPLY FAN DATA: QTY.	SUPPLY FAN DATA: SIZE (IN)	SUPPLY FAN DATA: ESP	SUPPLY FAN DATA: TOTAL BHP	SUPPLY FAN DATA: RPM	SUPPLY FAN DATA: TOTAL HP	EXHAUST FAN DATA: TYPE	EXHAUST FAN DATA: QTY.	EXHAUST FAN DATA: SIZE (IN)	EXHAUST FAN DATA: ESP	EXHAUST FAN DATA: TOTAL BHP	EXHAUST FAN DATA: RPM	EXHAUST FAN DATA: TOTAL HP	DX COOLING COIL DATA: TOTAL MBH	DX COOLING COIL DATA: SENS MBH	DX COOLING COIL DATA: EER	NATURAL GAS HEATING COIL DATA (QTY. 2): INPUT MBH	NATURAL GAS HEATING COIL DATA (QTY. 2): MIN AFUE%	HOT GAS REHEAT: EAT DB	HOT GAS REHEAT: EAT WB	HOT GAS REHEAT: LAT DB	HOT GAS REHEAT: LAT WB	HOT GAS REHEAT: MBH	FILTER DATA: TYPE	FILTER DATA: MERV	FILTER DATA: QTY.	ELECTRICAL DATA: MCA	ELECTRICAL DATA: VOLTS	ELECTRICAL DATA: PHASE	CABINET DIMENSIONS: HEIGHT	CABINET DIMENSIONS: WIDTH	CABINET DIMENSIONS: LENGTH	UNIT WEIGHT (LBS)	MANUFACTURER WITH MODEL NUMBER	NOTES
ERU-1	28500 CFM	14250 CFM	17100 CFM	H-1-50C-1950	87.6	78.2	85.5	77.7	-10	-10.9	62	40	PLENUM	2	27	2.00 in-wg	32.4	1800	40	PLENUM	1	30	1.25 in-wg	12.3	1200	15	1165.2	481.3	10.0	600.0	80	65.1 °F	77.7 °F	54.9	55 °F	1165.20	PLEATED	8		259.5	460	3	11' - 6 1/2"	11' - 2"	33' - 6"	20100.00	INNOVENT NDHU-OU-PL-28500-AC-IF-460	1, 2
ERU-2	7000 CFM	4000 CFM	4000 CFM	VXC-212-FL-20I-JA1	91.1	78.2	80	68.5	-0.5	-2.0	47.4	41.6	PLENUM	1		0.25 in-wg	8.3	1986	10	PLENUM	2		1.50 in-wg	5.0	1454	10	289	194	10.6	300.0	80	58.0 °F	89.7	7000				142.80	PLEATED	8	8	60.2	460	3	6' - 4 3/16"	8' - 2 5/16"	16' - 5 5/16"	5017.00	VALENT VCX-212-FL-20I-JA1	1, 2

NOTES:
1. SEE ADDITIONAL SCHEDULE INFO BELOW.
2. MANUFACTURER PROVIDED AND MOUNTED VFD'S AS REQUIRED.

ERU-1 ADDITIONAL INFO

MODEL	ALTITUDE (Ft)
NDHU-OU-PL-28500-AC-HG-IF-460	0.00

OUTSIDE FILTER — OUTSIDE

CFM	TYPE	DEPTH (in)	FACE VEL. (FPM)	MERV	QTY	WIDTH (in)	HEIGHT (in)	CLEAN PD	TOTAL PD
14250	Pleated	2	428	8	10	24	20	0.24	0.62

PLATE HEAT EXCHANGER — SUPPLY & RETURN

	OUTSIDE AIR DATA				RETURN AIR DATA			
MODE	CFM	EAT (DB/WB)(°F)	LAT (DB/WB)(°F)	PD	CFM	EAT (DB/RH)(°F/%)	LAT (DB/RH)(°F/%)	PD
Cooling	14250	87.6/78.2	85.5/77.7	0.70	17100	84.0/60.0	85.8/56.6	0.94
Purge Heating	14250	-10.0/-10.9	46.1/31.0	0.56	17100	84.0/24.0	40.3/100.0	0.88
Heating	7125	-10.0/-10.9	62.0/40.0	0.20	9975	84.0/53.9	53.0/100.0	0.37

MODEL: H-1-50C-1950

DX COIL — SUPPLY

CFM	FPM	EAT (DB/WB)(°F)	LAT (DB/WB)(°F)	MBH (T/S)	REF	CIRCUITS	SST (°F)	ROWS	FPI	PD
14250	500	85.5/77.7	54.9/54.9	1165.2/481.3	R-410A	1	42.5	6	12	0.87

HOT GAS REHEAT — SUPPLY

CFM	FPM	EDB/WB (°F)	LDB/WB (°F)	MBH	REF.	CIRCUITS	ROWS	FPI	PD
28500	667	69.5/64.9	90.1/71.3	635	R-410A	1	2	10	0.28

SUPPLY FAN — SUPPLY

QTY	CFM	CLASS	SIZE (in)	TYPE	TSP (\"WC)	BHP	MHP	RPM	MOTOR RPM	VFD Hz	MOTOR TYPE
2	14250	II	27	Plenum	5.14	16.2	20.0	1734	1800	59.5	TEFC
TOTAL:	28500	-	-	-	5.14	32.4	40.0	-	-	-	-

TSP CALCULATION

SA ESP (\"WC)	2.00	Outside Filter Loading PD (\"WC)	0.38	Hot Gas Reheat (\"WC)	0.27
Casing Loss (\"WC)	0.30	Plate Heat Exchanger (\"WC)	0.70	Indirect Fired Furnace (\"WC)	0.38
Outside Filter Clean PD (\"WC)	0.24	DX Coil (\"WC)	0.87	TSP:	5.14 \"WC

INDIRECT FIRED FURNACE — SUPPLY

CFM	EDB (°F)	LDB (°F)	MBH IN	MBH OUT	FUEL TYPE	GAS PRESSURE	PD
28500	65.1	96.3	1200	960	NG	6-14\"WC	0.38

FURNACE#	MBH IN	MBH OUT
IDF #1	600	480
IDF #2	600	480

RETURN FILTER — RETURN

CFM	TYPE	DEPTH (in)	FACE VEL. (FPM)	MERV	QTY	WIDTH (in)	HEIGHT (in)	CLEAN PD	TOTAL PD
31350	Aluminum	2	523	N/A	15	24	24	0.14	0.57

EXHAUST FAN — EXHAUST

QTY	CFM	CLASS	SIZE (in)	TYPE	TSP (\"WC)	BHP	MHP	RPM	MOTOR RPM	VFD Hz	MOTOR TYPE
1	17100	II	30	Plenum	3.06	12.3	15.0	1361	1200	69.8	TEFC

TSP CALCULATION

RA ESP (\"WC)	1.25	Return Filter Clean PD (\"WC)	0.14	-	-
Casing Loss (\"WC)	0.30	Plate Heat Exchanger (\"WC)	0.94	TSP:	3.06 \"WC

AIR-COOLED REFRIGERATION — NONAIRSTREAM

TONS	AMBIENT (°F)	CIRCUITS	# OF STAGES	REF. EER
97.1	95.0	2	4	10.0

ELECTRICAL INFORMATION — UNIT POWER

COMPONENT	VOLTS	PHASE	FREQ. (Hz)	MOP	MCA
Electrical Enclosure	460	3	60	300	259.5
AMP SUMMARY					
Exhaust Fan	21.0	Air-Cooled Refrigeration	37.8 x 4	--	--
Air-Cooled Refrigeration	4.0 x 6	Supply Fan	24.0 x 2	Total:	244.2

ERU-2 ADDITIONAL INFO

Unit Performance

Design Conditions

Elevation (ft)	Summer DB (F)	Summer WB (F)	Winter DB (F)	Supply (CFM)	Outdoor Air (CFM)	Exhaust Air (CFM)
807	91.1	78.2	-0.5	7,000	4,000	4,000

Unit Specifications

Qty	Weight (lb)	Cooling Type	Heating Type	Unit Installation	Unit ETL Listing	Furnace ETL Listing
1	5,017 (+/- 5%)	Packaged DX	Indirect Gas	Outdoor	ULcUL 1995	ANSI Z83.8 / CSA 2.6

Configuration

Outdoor Air: Intake	Outdoor Air: Discharge	Exhaust Air: Intake	Exhaust Air: Discharge
End	Bottom	Bottom	Side

ASHRAE 90.1-2019 Compliance

	ASHRAE 90.1 Min. Efficiency	Calculated Efficiency	Compliance
EER	9.8	10.6	✓
IEER	13	16.5	✓
Enthalpy Recovery Ratio (%)	50	65.7	✓

Energy Recovery Performance

Design Condition	Outdoor Air DB	Outdoor Air WB	Supply Air DB	Supply Air WB	Return Air DB	Return Air WB/RH	Exhaust Air DB	Exhaust Air WB	Capacity Reduction (BTU/h)
Summer	91.1	78.2	80.0	68.5	75.0	62.4/50	86.0	73.3	163,800.0
Winter	-0.5	-2.0	47.4	41.6	72.0	55.7/35	21.6	19.6	206,928.0

Cooling Specifications

Type	Total Capacity (MBH)	Sensible Capacity (MBH)	Lead Compressor Type	Coil (DB/WB): EAT (F)	Coil (DB/WB): LAT (F)	Reheat: Capacity (MBH)	Reheat: LAT (F)
Packaged DX	289.9	194.0	Inverter Scroll	77.9 / 66.0	52.6 / 52.5	142.8	71.5

Heating Specifications

Type	Gas Type	Input (MBH)	Output (MBH)	Temperature Rise: Min (F)	Temperature Rise: Max (F)	Turndown	Performance: EAT (F)	Performance: LAT (F)
Indirect Gas	Natural	300.0	240.0	3.0	32.0	12:1	58.0	89.7

Air Performance

Type	Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	FRPM	Fan: Qty	Fan: Type	Fan: Drive-Type
Supply	7,000	0.25	4.868	1986	1	Plenum	Direct
Exhaust	4,000	1.5	3.01	1454	1	Plenum	Direct
Economizer	4,000	1.5	1.746	1210	1	Plenum	Direct

Motor Specifications

Motor	Qty	Operating Power (hp)	Size (hp)	Enclosure	Efficiency	RPM
Supply	1	8.29	10	ODP	PE	1770
Exhaust	1	3.14	5	ODP	PE	1760

Electrical Specifications

Power Supply	Rating (V/C/P)	MCA (A)	MOP (A)	Fan Power (W/CFM)*
Unit	460/60/3	60.2	70.0	1.217

FAN SCHEDULE

SPECIFICATION SECTION 233423

UNIT ID	FAN DATA: DESCRIPTION	WHEEL SIZE	DRIVE TYPE	CFM	TSP	BHP	RPM	SONES	MOTOR DATA: HP	VOLTS	PH	ACCESSORIES: ROOF CURB	DISCONNECT SWITCH	GRAVITY BACKDRAFT DAMPER	VIBRATION ISOLATORS	BIRD SCREEN	UNIT WEIGHT (LBS)	MANUFACTURER WITH MODEL NUMBER	NOTES
EF-1	SIDEWALL BELT DRIVE FAN	20	BELT	750 CFM	0.5	0.35	1725	17.1	1/2	120	1	NO	YES	YES	NO	YES	62.00	GREENHECK SBE-2H20-5	1, 2
EF-2	DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FAN	7	DIRECT	275 CFM	0.25	0.03	1725	4.9	1/15	120	1	YES	YES	YES	NO	YES	22.00	GREENHECK G-070-VG	3
EF-3	DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FAN	9.5	DIRECT	750 CFM	0.5	0.15	1725	10.2	1/6	120	1	YES	YES	YES	NO	YES	32.00	GREENHECK G-095-VG	2
EF-4	DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FAN	9.7	DIRECT	100 CFM	0.25	0.12	1725	9.5	1/4	120	1	YES	YES	YES	NO	YES	48.00	GREENHECK G-097-A	1, 3

NOTES:
1. PROVIDE WITH HI-PRO-POLYESTER COATING.
2. FAN CONTROLLED OFF ROOM THERMOSTAT.
3. FAN SHALL RUN CONTINUOUSLY.

ELECTRIC UNIT HEATER SCHEDULE

UNIT ID	CONFIGURATION	CFM	HEATING DATA: MIN. KW	HEATING DATA: MBH	ELECTRICAL DATA: AMPS	ELECTRICAL DATA: VOLTAGE	ELECTRICAL DATA: PHASE	ACCESSORIES: DISCONNECT SWITCH	ACCESSORIES: INTEGRAL THERMOSTAT	ACCESSORIES: WALL BRACKET	MANUFACTURER WITH MODEL NUMBER	NOTES
ECH-1	CEILING RECESSED	300	4	13.7	19.2	208	1	YES	YES	NO	QMARK - CDFRE 548	2, 4
ECH-2	CEILING RECESSED	300	4	13.7	19.2	208	1	YES	YES	NO	QMARK - CDFRE 548	2, 4
UH-1	VERTICAL	350	3	10.2	14.5	208	1	YES	YES	NO	QMARK - MUH0381	1, 2, 4
UH-2	VERTICAL	350	3	10.2	14.5	208	1	YES	YES	NO	QMARK - MUH0381	1, 2, 4
UH-3	VERTICAL	700	3	10.2	16.7	208	1	YES	YES	NO	BERKO - RUX300812	1, 2, 3, 4
UH-4	VERTICAL	700	3	10.2	16.7	208	1	YES	YES	NO	BERKO - RUX300812	1, 2, 3, 4
UH-5	VERTICAL	700	3	10.2	16.7	208	1	YES	YES	NO	BERKO - RUX300812	1, 2, 3, 4
UH-6	VERTICAL	700	3	10.2	14.5	208	1	YES	YES	NO	QMARK - MUH0381	1, 2, 4

NOTES:
1. PROVIDE WITH ALL REQUIRED MOUNTING BRACKETS.
2. MAINTAIN ALL REQUIRED CLEARANCES.
3. UNIT SHALL BE EXPLOSION PROOF.
4. PROVIDE WITH UNIT MOUNTED THERMOSTAT.

DIFFUSERS & GRILLES SCHEDULE

SPECIFICATION SECTION 233713

UNIT ID	MAX CFM	DIMENSIONAL DATA: FACE SIZE	DIMENSIONAL DATA: SLOT INFO	DIMENSIONAL DATA: CONN. SIZE	THROW DATA: DIRECTION	THROW DATA: DISTANCE @ NOM. CFM	MOUNT	MAX NC SOUND LEVEL	ACCESSORIES: BALANCE DAMPER	ACCESSORIES: PLENUM BOX	ACCESSORIES: TAMPER-PROOF SCREWS	MANUFACTURER WITH MODEL NUMBER	NOTES
EG1	720	12"x12"	-	10"x10"	-	-	SEE RCP	25	YES	YES	NO	PRICE 80	1, 2, 4
EG2	2005	24"x24"	-	22"x22"	-	-	SEE RCP	25	YES	YES	NO	PRICE 80	1, 2, 4
RG2	2005	24"x24"	-	22"x22"	-	-	SEE RCP	25	NO	YES	NO	PRICE 80	2, 4
SD1	213	24"x24"	-	6"	4-WAY	3-4-7	SEE RCP	25	NO	NO	NO	PRICE SPD	1, 2, 3
SD2	332	24"x24"	-	8"	4-WAY	5-7-10	SEE RCP	25	NO	NO	NO	PRICE SPD	1, 2, 3
SD3	490	24"x24"	-	10"	4-WAY	6-8-12	SEE RCP	25	NO	NO	NO	PRICE SPD	1, 2, 3
SG1	590	24"x12"	-	22"x10"	45 DEG.	7-10-12	DUCT	25	YES	NO	NO	PRICE 535FL	5

NOTES:
1. ALUMINUM CONSTRUCTION.
2. FURNISH WITH LAY-IN STYLE PLASTER FRAMES FOR DRYWALL CEILING INSTALLATION. REFER TO ARCHITECT'S CEILING PLAN FOR DRYWALL CEILING LOCATIONS.
3. FURNISH WITH 4-WAY THROW FULL FLAT FACE PANEL.
4. FURNISH WITH 1/2"x1/2"x1/2" CORE.
5. FURNISH WITH 45 DEGREE DEFLECTION 1/2" SPACED BLADES PARALLEL TO THE LONG DIMENSION.

LOUVER SCHEDULE

SPECIFICATION SECTION 233300

UNIT ID	TYPE	WIDTH (INCHES)	HEIGHT (INCHES)	DEPTH (INCHES)	FREE AREA (SQ. FT.)	MAX AIRFLOW (CFM)	MAX AIR VELOCITY (FPM)	MANUFACTURER WITH MODEL NUMBER	NOTES
L-1	STATIONARY DRAINABLE	24"	18"	6"	1.38	750 CFM	600	RUSKIN - ELF6375DX	
L-2	STATIONARY DRAINABLE	12"	12"	6"	.36	100 CFM	600	RUSKIN - ELF6375DX	
L-3	STATIONARY DRAINABLE	24"	18"	6"	1.38	750 CFM	600	RUSKIN - ELF6375DX	
L-4	STATIONARY DRAINABLE	28"	28"	6"	3.27	750 CFM	600	RUSKIN - ELF6375DX	

ELECTRIC REHEAT TERMINAL UNIT SCHEDULE

SPECIFICATION SECTION 233600

UNIT ID	LOCATION: NAME	LOCATION: NUMBER	DESIGN CFM	MIN CFM	HEAT CFM	UNIT INLET SIZE	DESIGN INLET PRESSURE IN. WG	SOUND LEVEL @ DESIGN AIRFLOW	MIN KW	EAT	LAT	AMPS	VOLTS	PH	MANUFACTURER WITH MODEL NUMBER	NOTES
VAV-1	LIFEGUARD	2	145	75	75	4	1	28	0.7	55 °F	85 °F	2.53	277	1	PRICE SCRA	
VAV-2	LIFEGUARD	2	2625	800	1315	14	1	21	12.1	55 °F	84 °F	43.68	277	1	PRICE SCRA	
VAV-3	CIRC-1	38-1	600	180	300	7	1	29	2.8	55 °F	85 °F	10.11	277	1	PRICE SCRA	
VAV-4	CIRC-1	38-1	600	180	300	7	1	29	2.8	55 °F	85 °F	10.11	277	1	PRICE SCRA	
VAV-5			440	135	220	5	1	34	2.1	55 °F	85 °F	7.58	277	1	PRICE SCRA	
VAV-6			440	135	220	5	1	34	2.1	55 °F	85 °F	7.58	277	1	PRICE SCRA	
VAV-7	CIRC-1	38-1	1440	435	720	10	1	25	6.8	55 °F	85 °F	24.55	277	1	PRICE SCRA	
VAV-8	LIFEGUARD	2	500	150	250	5	1	36	2.4	55 °F	85 °F	8.66	277	1	PRICE SCRA	
			6790													

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2021-178.RVI
Project Date 12.05.2022
Produced CME CME

JOYCE ELLEN JONES — REGISTERED — No. PE60920263 — STATE OF INDIANA — PROFESSIONAL ENGINEER

#	Revision	Date
	Addendum #1	01/05/2023

5640 N Illinois St
Indianapolis, IN 46208

KEY PLAN

The Riviera Club

Aquatics Center

MECHANICAL SCHEDULES

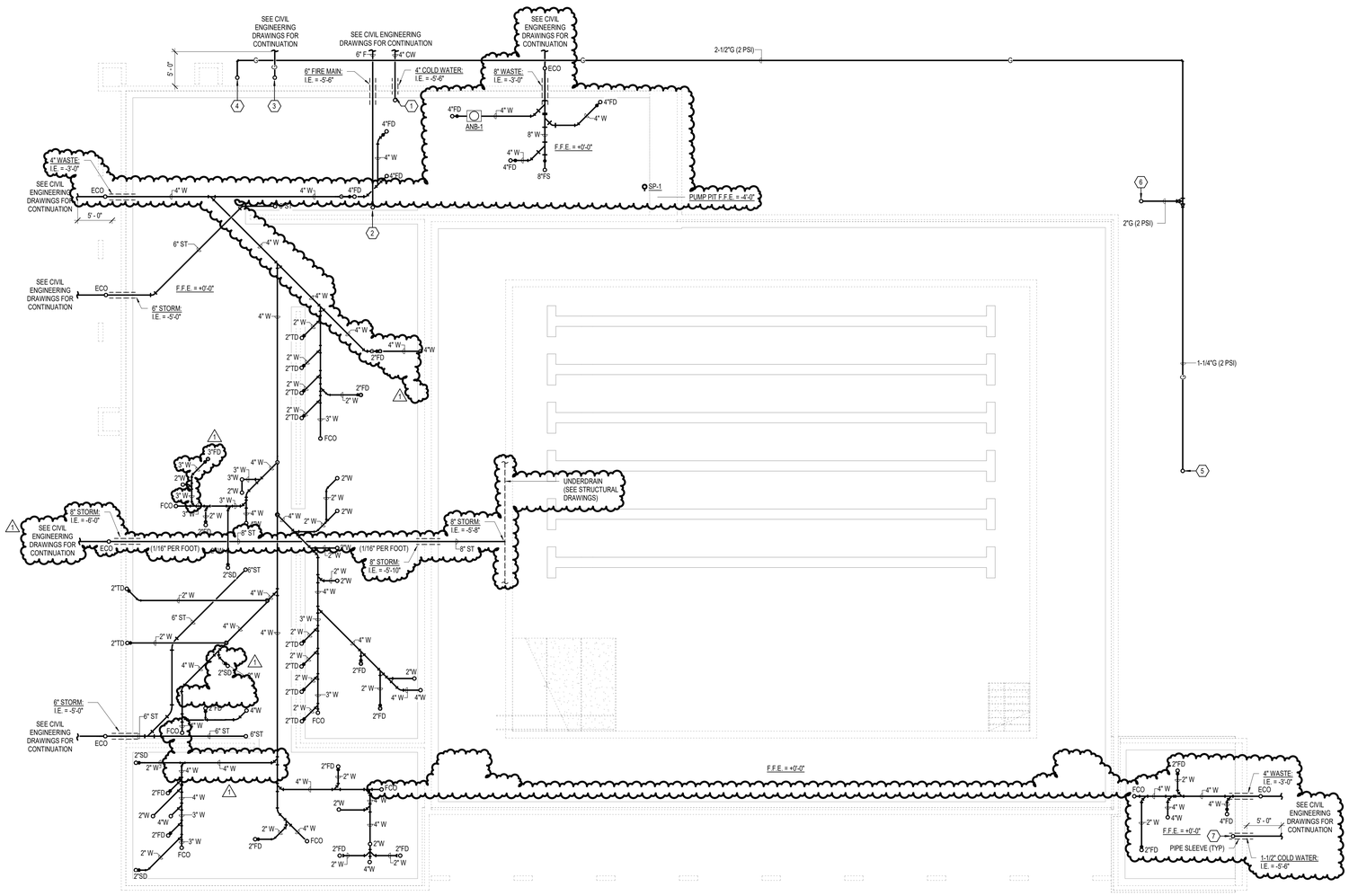
M601

GENERAL NOTES

A REFER TO DRAWING P-000 FOR PLUMBING AND FIRE PROTECTION SYMBOLS AND ABBREVIATIONS.
B REFER TO DRAWING P-500 SERIES FOR PLUMBING DETAILS.
C REFER TO DRAWING P-600 SERIES FOR PLUMBING SCHEDULES.
D ALL FLOOR DRAINS AND AND FLOOR CLEANOUTS TO BE FLUSH AND LEVEL WITH FINISHED FLOORS. CONTRACTOR IS RESPONSIBLE FOR ANY REWORK NECESSARY FOR IMPROPER INSTALLATION.
E REFER TO THE "PLUMBING FIXTURE ROUGH-IN SCHEDULE" TO SIZE BRANCH LINES TO INDIVIDUAL PLUMBING FIXTURES.
F INSTALL UNDERGROUND PVC DWV PIPING ACCORDING TO ASTM D 2321.
G SLEEVE ALL PIPING PASSING THROUGH FOUNDATION WALLS AND BELOW FOOTINGS. SLEEVE SHALL BE TWO PIPE DIAMETERS LARGER THAN PIPE. SLEEVE SHALL EXTEND BEYOND THE ANGLE OF REPOSE.
H AVOID ALL CONFLICTS BETWEEN PLUMBING SYSTEMS, AND UNDERGROUND CONDUIT, PIPING, STRUCTURAL MEMBERS, AND ANY OTHER OBSTRUCTIONS ENCOUNTERED. PIPING LAYOUTS ARE DIAGRAMMATIC AND SHOW SYSTEM INTENT. PIPING MAY REQUIRE ADDITIONAL OFFSETS, DROPS, FITTINGS ETC.

SHEET KEYNOTES

1 4"CW MAIN UP.
2 6" FIRE MAIN UP.
3 GAS SERVICE BY UTILITY COMPANY
4 2-1/2"G (2 PSI) FROM ABOVE.
5 1-1/4"G (2 PSI) UP.
6 2"G (2 PSI) UP.
7 1-1/2" CW FROM ABOVE.



1 PLUMBING FOUNDATION PLAN
1/8" = 1'-0"

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KEY PLAN

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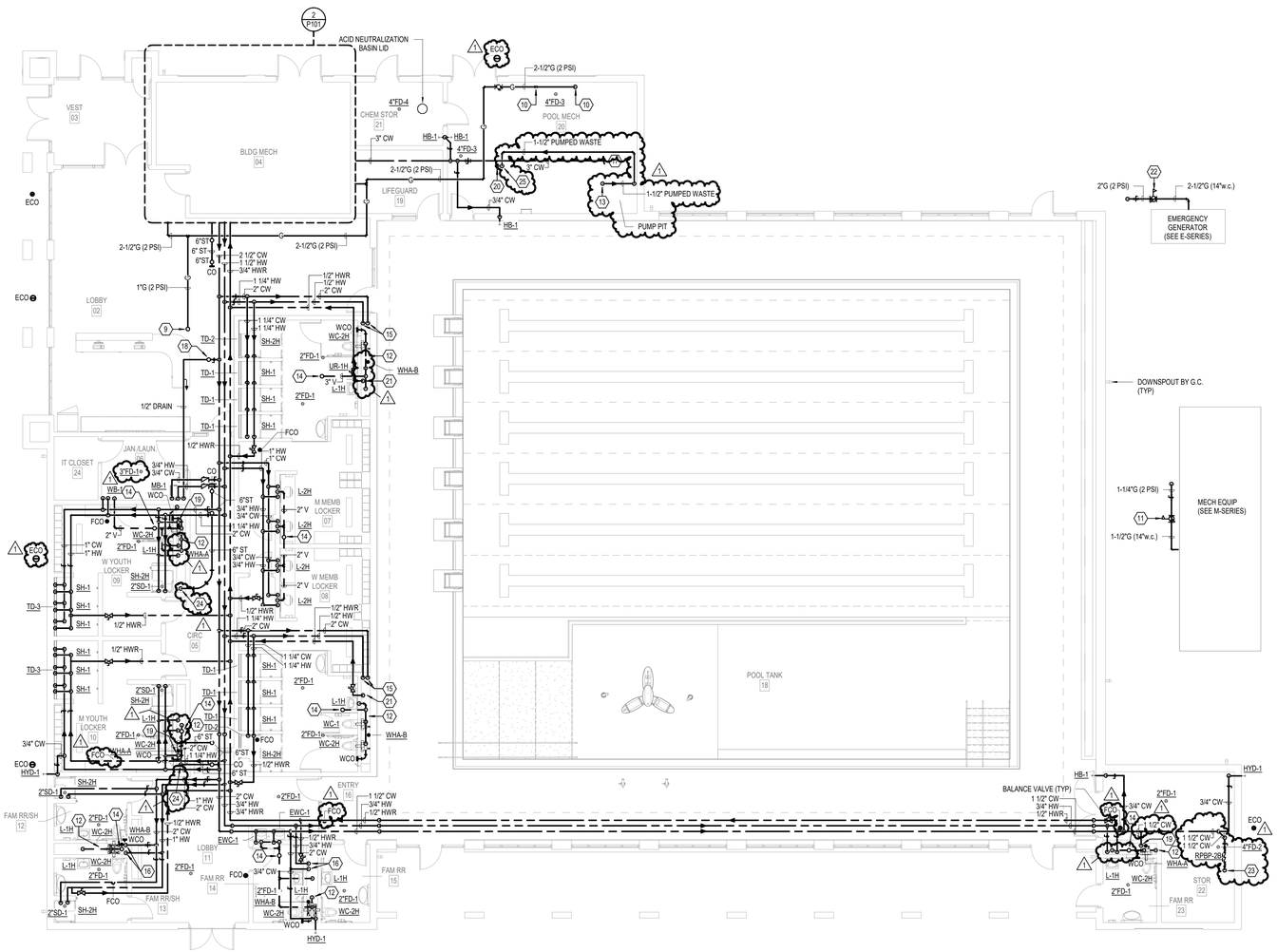
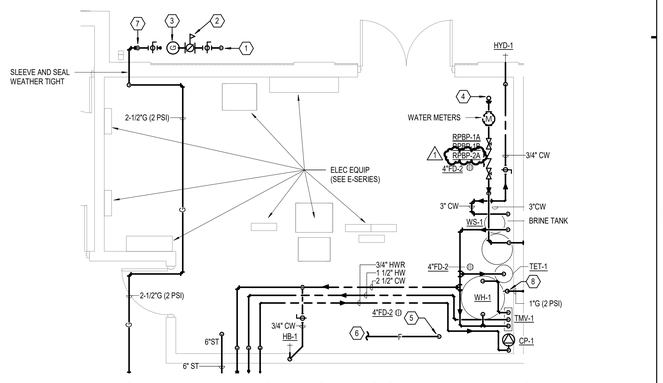
FOUNDATION PLUMBING PLAN

P100



1 FIRST FLOOR PLUMBING PLAN
1/8" = 1'-0"



2 ENLARGED BUILDING MECH ROOM PLUMBING PLAN
1/4" = 1'-0"

GENERAL NOTES

A REFER TO DRAWING P-000 FOR PLUMBING AND FIRE PROTECTION SYMBOLS AND ABBREVIATIONS.
B REFER TO DRAWING P-500 SERIES FOR PLUMBING DETAILS.
C REFER TO DRAWING P-600 SERIES FOR PLUMBING SCHEDULES.
D ALL FLOOR DRAINS AND AND FLOOR CLEANOUTS TO BE FLUSH AND LEVEL WITH FINISHED FLOORS. CONTRACTOR IS RESPONSIBLE FOR ANY REWORK NECESSARY FOR IMPROPER INSTALLATION.
E REFER TO THE "PLUMBING FIXTURE ROUGH-IN SCHEDULE" TO SIZE BRANCH LINES TO INDIVIDUAL PLUMBING FIXTURES.
F LOCATE SHUT-OFF VALVES ABOVE ACCESSIBLE CEILINGS OR ACCESS PANELS IN GYP. CEILINGS.
G INSTALL PIPING AS HIGH AS POSSIBLE. MAINTAIN CODE REQUIRED SLOPE ON ALL WASTE AND VENT PIPING.
H AVOID ALL CONFLICTS BETWEEN PLUMBING SYSTEMS, AND CONDUIT, DUCT, EQUIPMENT, PIPING, STRUCTURAL MEMBERS, AND ANY OTHER OBSTRUCTIONS ENCOUNTERED. PIPING LAYOUTS ARE DIAGRAMMATIC AND SHOW INTENT. PIPING MAY REQUIRE ADDITIONAL OFFSETS, DROPS, FITTING, ETC.
I PROVIDE SHUT-OFF, DIRT LEG AND UNION AT EACH NATURAL GAS CONNECTION TO GAS FIRED EQUIPMENT.
J COORDINATE LOCATION OF NATURAL GAS CONNECTION WITH EQUIPMENT MANUFACTURER'S DATA.
K PRIME AND PAINT GAS PIPING OUTSIDE BUILDING TO PREVENT RUSTING. APPLY TWO COATS OF RUST-INHIBITING PRIMER AND TWO COATS OF ENAMEL PAINT FORMULATED FOR EXTERIOR USE. COLOR AS SELECTED BY ARCHITECT.

SHEET KEYNOTES

1 GAS SERVICE LINE DOWN BELOW GRADE.
2 GAS SERVICE, GAS REGULATOR, AND GAS METER BY UTILITY.
3 GAS METER - SIZE FOR:
TOTAL CONNECTED LOAD: 6.130,000 BTUH
SERVICE PRESSURE: 2 PSI
4 3" CW MAIN FROM BELOW.
5 6" FIRE RISER WITH SUPERVISED CONTROL VALVE, FLOW SWITCH, AND MAIN DRAIN.
6 TO SPRINKLER SYSTEM.
7 2-1/2"G (2 PSI) DOWN.
8 1"G (2 PSI) DOWN WITH SHUT-OFF AND GAS REGULATOR - SIZE FOR:
CAPACITY: 285,000 BTUH
INLET PRESSURE: 2 PSI
OUTLET PRESSURE: 14"w.c.
1-1/4"G (14"w.c.) TO WATER HEATER.
9 1"G (2 PSI) UP TO ROOF.
10 2"G (2 PSI) DOWN WITH SHUT-OFF AND GAS REGULATOR - SIZE FOR:
CAPACITY: 1,442,000 BTUH
INLET PRESSURE: 2 PSI
OUTLET PRESSURE: 14"w.c.
2"G (14"w.c.) TO POOL HEATER.
11 GAS PRESSURE REGULATOR - SIZE FOR:
CAPACITY: 600,000 BTUH
INLET PRESSURE: 2 PSI
OUTLET PRESSURE: 14"w.c.
12 4" WASTE DOWN.
13 1-1/2" PUMPED WASTE FROM SP-1 IN E.IMP.PIT.
14 3" VENT UP TO 4" V.I.R.
15 2"CW DOWN IN CHASE WITH HEADER TO SERVE FIXTURES, 1/2"HW DOWN IN CHASE WITH HEADER TO SERVE FIXTURES..
16 2"CW, 3/4"HW DOWN IN CHASE.
17 CW TO EXTEND AND CONNECT TO POOL EQUIPMENT. DESIGN AND LOCATIONS BY OTHERS.
18 1"CW UP TO SERVE ROOF HYDRANT. ROUTE 1/2" DRAIN LINE TO JAN/LAUN ROOM AND TERMINATE ABOVE MOP BASIN.
19 1" CW DOWN TO SERVE WATER CLOSET.
20 8" WASTE STANDPIPE FOR POOL BACKWASH. SEE POOL DRAWINGS FOR ADDITIONAL INFORMATION.
21 1/2" HWR FROM LAVATORY.
22 GAS REGULATOR - SIZE FOR:
CAPACITY: 2,061,000 BTUH
INLET PRESSURE: 2 PSI
OUTLET PRESSURE: 14"w.c.
23 1-1/2"CW DOWN. EXTEND TO POOL EQUIPMENT BUILDING.
24 6" STORM DOWN IN CHASE.
25 1-1/2" PUPMED WASTE DOWN AND TERMINATE WITH AIR GAP ABOVE 8" OPEN SITE DRAIN STANDPIPE.

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ASSOCIATES
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KEY PLAN

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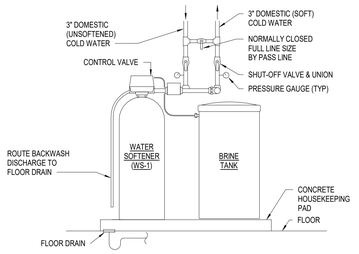
The Riviera Club

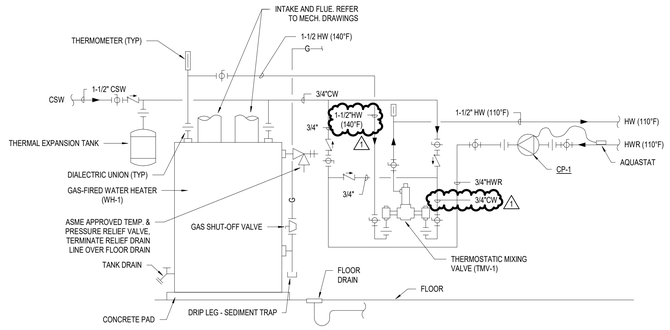
Aquatics Center

FIRST FLOOR PLUMBING PLAN

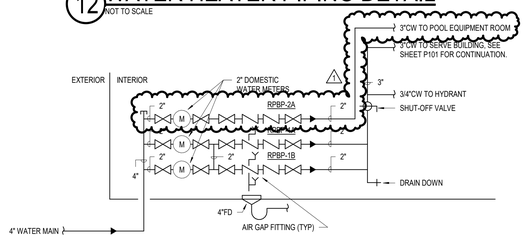
P101



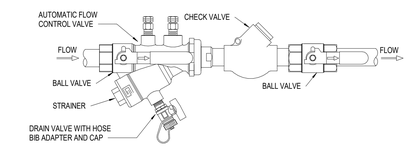
13 WATER SOFTENER PIPING DETAIL
NOT TO SCALE



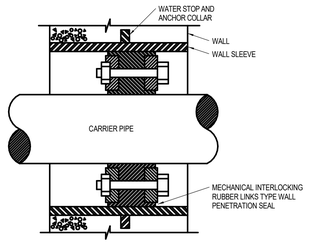
12 WATER HEATER PIPING DETAIL
NOT TO SCALE



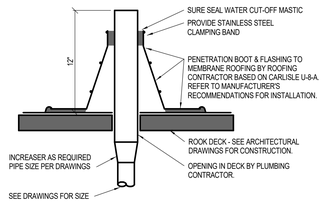
11 WATER RISER DETAIL
NOT TO SCALE



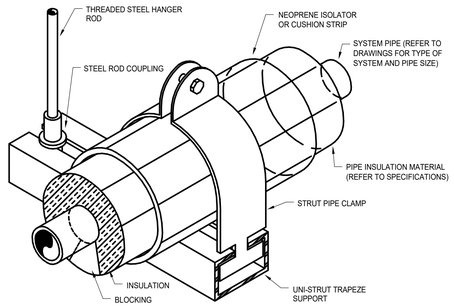
10 POTABLE HWR BALANCING VALVE STATION DETAIL
NOT TO SCALE



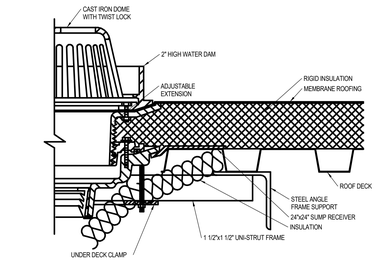
8 WALL FLOOR SLEEVE DETAIL
NOT TO SCALE



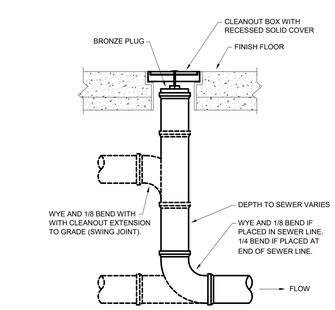
7 VENT THRU ROOF DETAIL
NOT TO SCALE



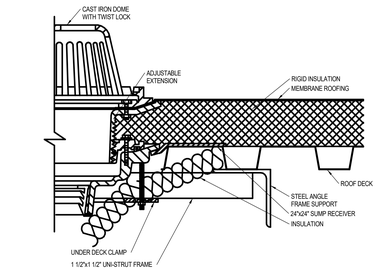
6 TRAPEZE HANGER DETAIL
NOT TO SCALE



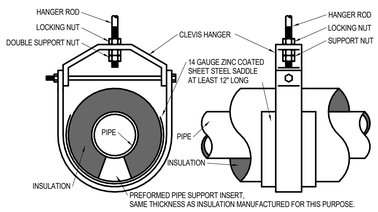
4 OVERFLOW DRAIN DETAIL
NOT TO SCALE



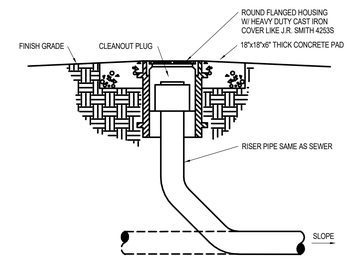
2 INTERIOR CLEANOUT
NOT TO SCALE



3 ROOF DRAIN DETAIL
NOT TO SCALE



5 PIPE HANGER DETAIL
NOT TO SCALE



1 EXTERIOR CLEANOUT
NOT TO SCALE

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ASSOCIATES
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KEY PLAN

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The Riviera Club

Aquatics Center

PLUMBING DETAILS

P501

Rev: PLUMBING DETAILS
2021-178.RVI_The Riviera Club_Aquatics Center_
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PLUMBING FIXTURE ROUGH-IN SCHEDULE

TAG	FIXTURE DESCRIPTION	HW	CW	TRAP	W	V	MOUNTING HEIGHT
WC-1	WATER CLOSET - FLUSH VALVE	-	1"	INTEGRAL	4"	2"	15" TO SEAT
WC-2H	WATER CLOSET - FLUSH VALVE, ADA	-	1"	INTEGRAL	4"	2"	17" TO SEAT
UR-1H	URINAL - ADA	-	3/4"	INTEGRAL	2"	2"	17" TO RIM
L-1H	WALL-MOUNTED LAVATORY - ADA	1/2"	1/2"	1-1/4"	2"	2"	34" TO DECK
L-2H	UNDERMOUNT LAVATORY - ADA	1/2"	1/2"	1-1/4"	2"	2"	SEE ARCHITECTURAL ELEVATIONS
SH-1	SHOWER	1/2"	1/2"	-	-	-	78" (HEAD), 48" (VALVE)
SH-2H	SHOWER - ADA	1/2"	1/2"	-	-	-	72" (WATER/HOSE ROUGH-IN), 48" (HANDSPRAY), 48" (VALVE)
EWC-1H	ELECTRIC WATER COOLER WITH BOTTLE FILLER	-	1/2"	1-1/2"	2"	2"	36" TO BUBBLER
HB-1	HOSE BIBB	-	1/2"	-	-	-	36" A.F.F.
HYD-1	WALL HYDRANT - FREEZELESS	-	3/4"	-	-	-	18" ABOVE ADJACENT GRADE
HYD-2	ROOF HYDRANT - FREEZELESS	-	1/2"	-	-	-	
WB-1	WASHER BOX	1/2"	1/2"	2"	2"	2"	42" A.F.F. TO BOTTOM
MB-1	MOP BASIN	3/4"	3/4"	3"	3"	2"	36" A.F.F. TO FAUCET

DRAINAGE FITTING SCHEDULE

MARK NO.	FIXTURE DESCRIPTION	MANUFACTURER/ MODEL NUMBER
FD-1	FLOOR DRAIN: CAST IRON, FLASHING COLLAR, BOTTOM NO-HUB OUTLET, WITH TRAP SEALER. STRAINER: NICKEL BRONZE, ADJUSTABLE, ROUND, FLAT.	JAY R. SMITH 2005Y-A TRAP SEALER: JAY R SMITH 2692-02
FD-2	FLOOR SINK: CAST-IRON, DEEP BODY RECEPTOR, NO-HUB BOTTOM OUTLET. STRAINER: CAST IRON, ROUND, BAR GRATE, SEDIMENT BUCKET	J.R. SMITH 2240Y
FD-3	FLOOR SINK: HIGH STRENGTH CHEMICALLY RESISTANT PVC, 8" DIA. GRATE, BODY, SEEPAGE HOLES, SEDIMENT BUCKET, FLANGE AND FLASHING CLAMP.	J.R. SMITH 225-H04
FD-4	FLOOR DRAIN: FLOWAY SERIES F1000 POLPROPYLENE ADJUSTABLE FLOOR DRAIN WITH 6" DIAMETER STRAINER, SEDIMENT BUCKET, AND PLAIN END OUTLET. BODY WITH 14-1/2" DIAMETER FLANGE, AND NON-PUNCTURING STYLE FLASHING COLLAR WITH WEEP HOLES.	FLOWAY F1402P
TD-1	SHOWER TRENCH DRAIN: LENGTH = 3'-0" CHANNEL: 2" WIDE, POLYMER FIBER REINFORCED CONCRETE, WITH SQUARE BOTTOM AT 1% SLOPE, SCH. 40 PVC CENTER OUTLET. FRAMES: MEDIUM DUTY 18 GAUGE (T304) STAINLESS STEEL FRAMES, WITH HEAVY GAUGE METAL REBAR BRACKETS AND 1-1/8" LONG BY 1/4" DIAMETER METAL NELSON CONCRETE ANCHOR STUDS. GRATES: 3" WIDE X 1/2" THICK, T404 STAINLESS STEEL "WAVE" PATTERN (DIN CLASS "A") WITH STAINLESS STEEL GRATE LOCKS.	DURA TRENCH #DTPF2-03W48SSA-MDSS05ZSA-GLZN2-NSR-2b
TD-2	SHOWER TRENCH DRAIN: LENGTH = 5'-0" CHANNEL: 2" WIDE, POLYMER FIBER REINFORCED CONCRETE, WITH SQUARE BOTTOM AT 1% SLOPE, SCH. 40 PVC CENTER OUTLET. FRAMES: MEDIUM DUTY 18 GAUGE (T304) STAINLESS STEEL FRAMES, WITH HEAVY GAUGE METAL REBAR BRACKETS AND 1-1/8" LONG BY 1/4" DIAMETER METAL NELSON CONCRETE ANCHOR STUDS. GRATES: 3" WIDE X 1/2" THICK, T404 STAINLESS STEEL "WAVE" PATTERN (DIN CLASS "A") WITH STAINLESS STEEL GRATE LOCKS.	DURA TRENCH #DTPF2-03W48SSA-MDSS05ZSA-GLZN2-NSR-2b
TD-3	SHOWER TRENCH DRAIN: LENGTH = 7'-10" CHANNEL: 2" WIDE, POLYMER FIBER REINFORCED CONCRETE, WITH SQUARE BOTTOM AT 1% SLOPE, SCH. 40 PVC CENTER OUTLET. FRAMES: MEDIUM DUTY 18 GAUGE (T304) STAINLESS STEEL FRAMES, WITH HEAVY GAUGE METAL REBAR BRACKETS AND 1-1/8" LONG BY 1/4" DIAMETER METAL NELSON CONCRETE ANCHOR STUDS. GRATES: 3" WIDE X 1/2" THICK, T404 STAINLESS STEEL "WAVE" PATTERN (DIN CLASS "A") WITH STAINLESS STEEL GRATE LOCKS.	DURA TRENCH #DTPF2-03W48SSA-MDSS05ZSA-GLZN2-NSR-2b
SD-1	SHOWER DRAIN: CAST IRON, FLASHING COLLAR, BOTTOM NO-HUB OUTLET. STRAINER: NICKEL BRONZE, ADJUSTABLE, ROUND.	JAY R. SMITH 2005Y
FCO	FLOOR CLEANOUT: CAST IRON BODY, ROUND ADJUSTABLE SECURED NICKEL BRONZE COVER, BRONZE PLUG, GASKET SEAL.	JAY R. SMITH 4221S
WCO	WALL CLEANOUT: STAINLESS STEEL SHALLOW COVER WITH CENTER VANDAL PROOF SCREW.	JAY R. SMITH 4710
ECO	EXTERIOR CLEANOUT: CAST IRON BODY, DOUGLE FLANGED HOUSING, HEAVY DUTY SECURED SCORIATED CAST IRON COVER WITH LIFTING RING, ABS PLUG, GASKET SEAL.	JAY R. SMITH 4253S
ANB-1	ACID NEUTRALIZATION BASIN: CAPACITY - 15 GAL., WEIGHT - 30 LBS. W/ COVER, STANDARD COVER HANDLES 450 LBS. WHEN UNIT IS INSTALLED ABOVE-GRADE AND 2,500 LBS. WHEN BURIED WITH SR16 RISER, MAXIMUM OPERATING TEMPERATURE 140 DEG. F. CONTINUOUS.	STRIEM LB-15

WATER HAMMER ARRESTERS

TAG	I.P.S.	F.U. RATING	J.R. SMITH NO.	WADE NO.	REMARK
A	3/4"	1 - 11	5005	W-5	P.D.I. CERTIFIED
B	1"	12 - 32	5010	W-10	P.D.I. CERTIFIED
C	1"	33 - 60	5020	W-20	P.D.I. CERTIFIED
D	1"	61 - 113	5030	W-50	P.D.I. CERTIFIED

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE DESCRIPTION	FIXTURE	TRIM & ACCESSORIES
WC-1, 2H	WATER CLOSET: WALL HUNG, VITREOUS CHINA, 1.28 GPF, 1,000 GRAMS MaP SCORE, ELONGATED BOWL, 1-1/2" TOP SPUD, 10" X 12" WATER SURFACE AREA, 1,000 LBS STATIC WEIGHT LOAD, CONVENTIONAL GLAZE, DIRECT-FED SIPHON JET ACTION. FLUSH VALVE: QUIET, EXPOSED, DIAPHRAGM TYPE, CHROME PLATED, HIGH CHLORAMINE RESISTANT PERMEX SYNTHETIC RUBBER DIAPHRAGM WITH DUAL FILTERED BYPASS, 1" IPS SCREWDRIVER BAK-CHECK ANGLE STOP WITH VANDAL RESISTANT STOP COVER, VACUUM BREAKER WITH FLUSH CONNECTION, 1-1/2" TOP SPUD COUPLING, NON-HOLD-OPEN HANDLE, ADA COMPLIANT. SEAT: OPEN FRONT LESS COVER, ELONGATED, HEAVY DUTY, INJECTION MOLDED SOLID PLASTIC, MOLDED IN BUMPERS, SELF-SUSTAINING CHECK HINGES, STAINLESS STEEL POSTS AND PINTLES, STA-TITE COMMERCIAL FASTENING SYSTEM. CARRIER: HEAVY DUTY WATER CLOSET CARRIER, 4" WASTE.	WATER CLOSET: AMERICAN STANDARD AFWALL MILLENIUM 2257.101	FLUSH VALVE: SLOAN ROYAL 111-1.28-DFB SEAT: BEMIS 1955SSCT CARRIER: JAY R. SMITH 0200 SERIES
UR-1H	URINAL: VITREOUS CHINA, ULTRA HIGH EFFICIENCY, 1.0 GPF, FLUSHING RIM, ELONGATED 14" RIM FROM FINISHED WALL, WASHOUT FLUSH ACTION, 3/4" INLET SPUD, ADA COMPLIANT. FLUSH VALVE: 1.0 GPF, POLISHED CHROME FINISH, FIXTURE CONNECTION TOP SPUD, SINGLE FLUSH, ROYAL EXPOSED MANUAL URINAL FLUSHOMETER.	URINAL: AMERICAN STANDARD WASHBROOK 6590.001	FLUSH VALVE: SLOAN ROYAL 186-1.0 CARRIER: JAY R. SMITH 0614
L-1H	LAVATORY: WALL HUNG, VITREOUS CHINA, FRONT OVERFLOW, D-SHAPED BOWL, SELF-DRAINING DECK WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FAUCET LEDGE, ADA COMPLIANT. FAUCET: TWO HANDLE DECK MOUNT LAVATORY FAUCETS FOR 3 HOLE SINKS WITH 4" CENTERS, MAX FLOW RATE OF 1.5 GPM, 1/4 TURN HANDLE STOPS, CHROME FINISH, 1/2"-14 NPSM THREADED MALE INLET SHANKS, ADA COMPLIANT. DRAIN / TAILPIECE: HEAVY CAST BRASS, 1-1/4" DIA., 17 GAUGE, SEAMLESS BRASS, BRASS LOCKNUT, HEAVY RUBBER BASIN WASHER, FIBER FRICTION WASHER, CHROME PLATED. P-TRAP: HEAVY CAST BRASS, 1-1/4" X 1-1/2", ADJUSTABLE, CLEANOUT PLUG, SLIP NUTS, 17 GAUGE TUBULAR WALL BEND, STEEL SHALLOW FLANGE, CHROME PLATED. SUPPLIES: QUARTER TURN BALL VALVES, 1/2" IPS X 3/8" OD, COPPER FLEXIBLE RISERS, STEEL SHALLOW FLANGES, CHROME PLATED. PROTECTIVE COVERING: (L-1H) OPENS AT 180° FOR EASY INSTALLATION AND SECURE FIT, FORM FITTING, EVA FOAM MATERIAL, FADE RESISTANT, CERTIFIED ANTI-MICROBIAL PER ISO 846 METHOD C, ASTM E-84, ADA COMPLIANT, WHITE, COVERS FOR DRAIN, P-TRAP, WALL BEND, SUPPLY STOPS AND SUPPLY LINES. CARRIER: LAVATORY SUPPORT WITH CONCEALED ADJUSTABLE ARMS AND SURE-SET MECHANICAL LOCKING DEVICE, AND ROUND STEEL UPRIGHTS WITH WELDED BASES.	LAVATORY: AMERICAN STANDARD LUCERNE 0355.012	FAUCET: DELTA AUBREY 25704LF DRAIN / TAILPIECE: McGUIRE 155A P-TRAP: McGUIRE 8902C SUPPLIES: McGUIRE LFBV2165 PROTECTIVE COVERING: (L-2H) DEARBORN ADA100 CARRIER: JAY R. SMITH 0700 SERIES
L-2H	LAVATORY: OVALYN UNIVERSAL ACCESS SINK, UNDERMOUNT, MADE FROM VITREOUS CHINA, UNGLAZED RIM FOR UNDER COUNTER MOUNT, REAR OVERFLOW, SUPPLIED WITH MOUNTING KIT (047194-0070A) AND TEMPLATE. BOWL SIZE: 16-3/4" WIDE, 13-1/4" FRONT TO BACK, 5-1/2" DEEP. 4" BOWL DEPTH. FAUCET: TWO HANDLE DECK MOUNT LAVATORY FAUCETS FOR 3 HOLE SINKS WITH 4" CENTERS, MAX FLOW RATE OF 1.5 GPM, 1/4 TURN HANDLE STOPS, CHROME FINISH, 1/2"-14 NPSM THREADED MALE INLET SHANKS, ADA COMPLIANT. DRAIN / TAILPIECE: HEAVY CAST BRASS, 1-1/4" DIA., 17 GAUGE, SEAMLESS BRASS, BRASS LOCKNUT, HEAVY RUBBER BASIN WASHER, FIBER FRICTION WASHER, CHROME PLATED. P-TRAP: HEAVY CAST BRASS, 1-1/4" X 1-1/2", ADJUSTABLE, CLEANOUT PLUG, SLIP NUTS, 17 GAUGE TUBULAR WALL BEND, STEEL SHALLOW FLANGE, CHROME PLATED. SUPPLIES: QUARTER TURN BALL VALVES, 1/2" IPS X 3/8" OD, COPPER FLEXIBLE RISERS, STEEL SHALLOW FLANGES, CHROME PLATED.	LAVATORY: AMERICAN STANDARD OVALYN 9482.000	FAUCET: DELTA AUBREY 25704LF DRAIN / TAILPIECE: McGUIRE 155A P-TRAP: McGUIRE 8902C SUPPLIES: McGUIRE LFBV2165
SH-1	SHOWER VALVE & HEAD ASSEMBLY: SURFACE MOUNTED, PRESSURE ACTUATED SHOWER MIXER, STAINLESS STEEL PRESSURE BALANCING PISTON, BUILT-IN SHUTOFF FOR SINGLE HANDLE OPERATION, COLOR CODED DIAL, ADJUSTABLE HIGH TEMPERATURE LIMIT STOP SET FOR 110°F, INLET STOPS, SOAP DISH, ADJUSTABLE SPRAY BALL JOINT MASSAGE SHOWER HEAD, 1.5 GPM, HIGH-IMPACT ABS BODY CHROME PLATED.		SHOWER VALVE & HEAD ASSEMBLY: LEONARD SS-PAM-H15-RSD
SH-2H	SHOWER VALVE & HEAD ASSEMBLY: SURFACE MOUNTED, PRESSURE ACTUATED SHOWER MIXER, STAINLESS STEEL PRESSURE BALANCING PISTON, BUILT-IN SHUTOFF FOR SINGLE HANDLE OPERATION, COLOR CODED DIAL, ADJUSTABLE HIGH TEMPERATURE LIMIT STOP SET FOR 110°F, INLET STOPS, SOAP DISH, ADJUSTABLE SPRAY BALL JOINT MASSAGE SHOWER HEAD, 1.5 GPM, HIGH-IMPACT ABS BODY CHROME PLATED, IN-LINE DIVERTER VALVE WITH LEVER HANDLE, HAND SHOWER, 1.5 GPM, 69" HOSE, 24" GLIDE BAR, DOUBLE CHECK VALVE ASSEMBLY SUPPLY ELBOW, ADA COMPLIANT.		SHOWER VALVE & HEAD ASSEMBLY: LEONARD SS-PAM-H-15-D2L515P(G)-44
EWC-1H	ELECTRIC WATER COOLER WITH BOTTLE FILLER: SINGLE ADA, HIGH EFFICIENCY FILTERED, CHILLING CAPACITY OF 8 GPH OF 50 DEG F DRINKING WATER BASED ON 80 DEG F INLET WATER AND 90 DEG F AMBIENT PER ASHRAE 18 TESTING, WALL MOUNTED, UL 399, LEAD-FREE NSF 61 & 372, MECHANICAL FRONT PUSHBUTTON ACTIVATION, STAINLESS STEEL TOP, HEAVY DUTY GALVANIZED STEEL FRAME, VANDAL RESISTANT, CHROME PLATED BRASS BUBBLER. BOTTLE FILLING STATION: ADA COMPLIANT, INDEPENDENT MANUAL ACTIVATION, ANTIMICROBIAL COMPOUND TO PROTECT ALCOVE AND ACTIVATION BUTTON, BRUSHED STAINLESS STEEL CABINET.	ELECTRIC WATER COOLER WITH BOTTLE FILLER: OASIS PG8SBF	P-TRAP: McGUIRE 8902C SUPPLIES: McGUIRE LFBV2165
HB-1	HOSE BIBB: ANTI-SIPHON, VACUUM BREAKER PROTECTED, ASSE 1011 APPROVED, 3/4" MALE HOSE THREAD, EPDM PACKING, ADJUSTABLE BRASS NUT WITH DEEL STEM GUARD, STANDARD "O" SIZE WASHER VALVE SEAT, METAL WHEEL HANDLE, CHROME PLATED FINISH.		HOSE BIBB: WOODFORD 24
HYD-1	WALL HYDRANT: (FREEZELESS) AUTOMATIC DRAINING WITH ANTI-SIPHON VACUUM BREAKER, ASSE 1011 APPROVED, 3/4" INLET AND OUTLET, HARDENED STAINLESS STEEL OPERATING STEM AND ONE-PIECE VALVE PLUNGER TO CONTROL BOTH FLOW AND DRAIN FUNCTIONS, EXTERIOR FINISH TO BE CHROME PLATED, RECESSED WALL BOX WITH LOCKABLE DOOR, LOOSE TEE KEY (FURNISHED WITH EACH HYDRANT).		WALL HYDRANT: WOODFORD B65
HYD-2	ROOF HYDRANT: (FREEZELESS) BACKFLOW PROTECTED HOSE CONNECTION, ASSE 1052, 1" NPT FEMALE INLET CONNECTION, 1-1/4" GALVANIZED PIPE CASING, 1/8" NPT DRAIN HOLE (PIPED TO DRAIN), ROOF MOUNTING SYSTEM.		ROOF HYDRANT: WOODFORD RHY2-MS
WB-1	WASHER BOX: WHITE POWDER COATED RECESSED BOX, QUARTER TURN VALVES AND 2" SLIPNUT DRAIN.		WALL HYDRANT: GUY GREY SSWB1
MB-1	MOP BASIN: 24" x 24" x 10" OVERALL DIMENSIONS, ONE PIECE HOMOGENOUS MOLD, 3" STAINLESS STEEL DRAIN BODY DESIGNED FOR CAULK CONNECTION, STAINLESS STEEL COMBINATION DOME STRAINER AND LINT BASKET. FAUCET: 8" WALL MOUNT MIXING FAUCET WITH ROUGH CHROME PLATED BRASS BODY, ROUGH CHROME PLATED BRASS SPOUT WITH VACUUM BREAKER, PAIL HOOK, GARDEN HOSE MALE OUTLET, COMPRESSION CARTRIDGES WITH SPRING CHECKS, LEVER HANDLES, 1/2" NPT FEMALE INLETS, BUILT-IN SERVICE STOPS IN BODY, UPPER SUPPORT ROD, ASME/CSA CERTIFIED, NSF 61 COMPLIANT, ADA COMPLIANT.	MOP BASIN: FIAT MSB-2424	FAUCET: T&S B-0665-BSTR

PLUMBING EQUIPMENT SCHEDULE

			UNIT			ELECTRICAL DATA			GAS DATA		
TAG	SPECIFICATION NAME	MANUFACTURER	MODEL #	WEIGHT	CAPACITY	V-PH-HZ	HP	KW	MBH IN	MBH OUT	NOTES
WH-1	DOMESTIC WATER HEATER (GAS)	LOCHINVAR	SWR285N		110 GAL. CAPACITY 328 GPH @ 100 DEG TEMPERATURE RISE GAS INPUT: 285,000 BTUH	-	-	-	285	-	1, 2
TMV-1	THERMOSTATIC MIXING VALVE	LAWLER	MODEL 801 UNIT #86208		16 PSI DROP @ 30 GPM	-	-	-	-	-	7
TET-1	THERMAL EXPANSION TANK	CALEFACTIO	HGTE-25		8 GAL. CAPACITY	-	-	-	-	-	3
CP-1	CIRCULATOR PUMP	ARMSTRONG	E9		4 GPM FLOW @ 35 FT TOTAL DYNAMIC HEAD	120V-1PH	1/6 HP	-	-	-	4, 5, 6
RPBP-1A RPBP-1B	BACKFLOW PREVENTER	WILKINS	S-975XL2 - 2"		15 PSI PRESSURE DROP @ 90 GPM	-	-	-	-	-	8, 9
RPBP-2A RPBP-2B	BACKFLOW PREVENTER	WILKINS	975XL2-S-AG - 3/4"		13 PSI PRESSURE DROP @ 18 GPM	-	-	-	-	-	8, 9
WS-1	WATER SOFTENER	AQUA SYSTEMS	WS3DSF1000HL		10 CUBIC FOOT, 250,000 GRAINS OF CAPACITY AT 10 LBS/CU FT, 98 GPM FLOW RATE AT 15 PSI PRESSURE DROP	24V-1PH	-	-	-	-	10
SP-1	SUMP PUMP	MYERS	MS-33		1/2 HP @ 56 GPM	115V-1PH-60Hz	1/2 HP	-	-	-	-

NOTES:

1. SET OUTLET TEMPERATURE AT 140°F.
2. PLUMB DRAIN FROM TEMPERATURE AND PRESSURE RELIEF AND TERMINATE AT +2" ABOVE FLOOR DRAIN.
3. ADJUST TANK PRESSURE TO BE EQUAL TO THE INCOMING WATER PRESSURE.
4. LEAD-FREE BRONZE CONSTRUCTION.
5. PUMP ON/OFF: CONTROLLED BY AQUASTAT.
6. OPERATION SCHEDULE: 24-HR, 7-DAY PROGRAMMABLE TIME CLOCK.
7. SET OUTLET TEMPERATURE AT 110°F.
8. PROVIDE AIR GAP ASSEMBLY - PIPE TO FLOOR DRAIN.
9. PROVIDE IN-LINE Y-STRAINER AHEAD OF BACKFLOW PREVENTER.
10. ROUTE BACKWASH DRAIN LINE AND TERMINATE ABOVE FLOOR DRAIN.

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2021-178.RVI
Project Date 12.05.2022
Produced ABT ABT

JOYCE ELLEN JONES REGISTERED No. PE60920263 STATE OF INDIANA PROFESSIONAL ENGINEER

#	Revision	Date
	Addendum #1	01/05/2023

5640 N Illinois St
Indianapolis, IN 46208

KEY PLAN

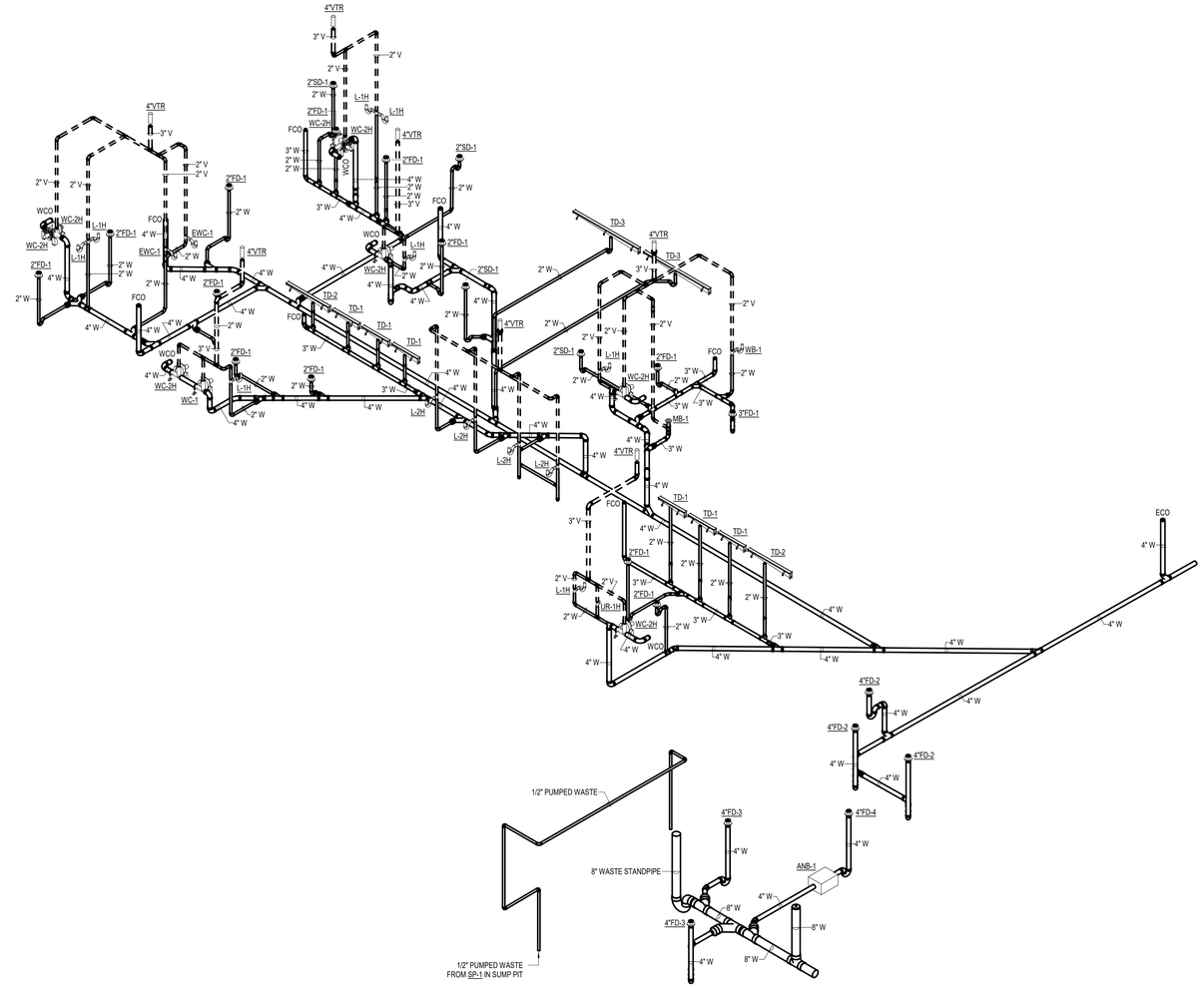
N

The Riviera Club

Aquatics Center

PLUMBING SCHEDULES

P601



1 WASTE AND VENT DIAGRAM
NOT TO SCALE

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

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Aquatics Center

WASTE AND VENT DIAGRAM

P901

P901 - WASTE AND VENT DIAGRAM
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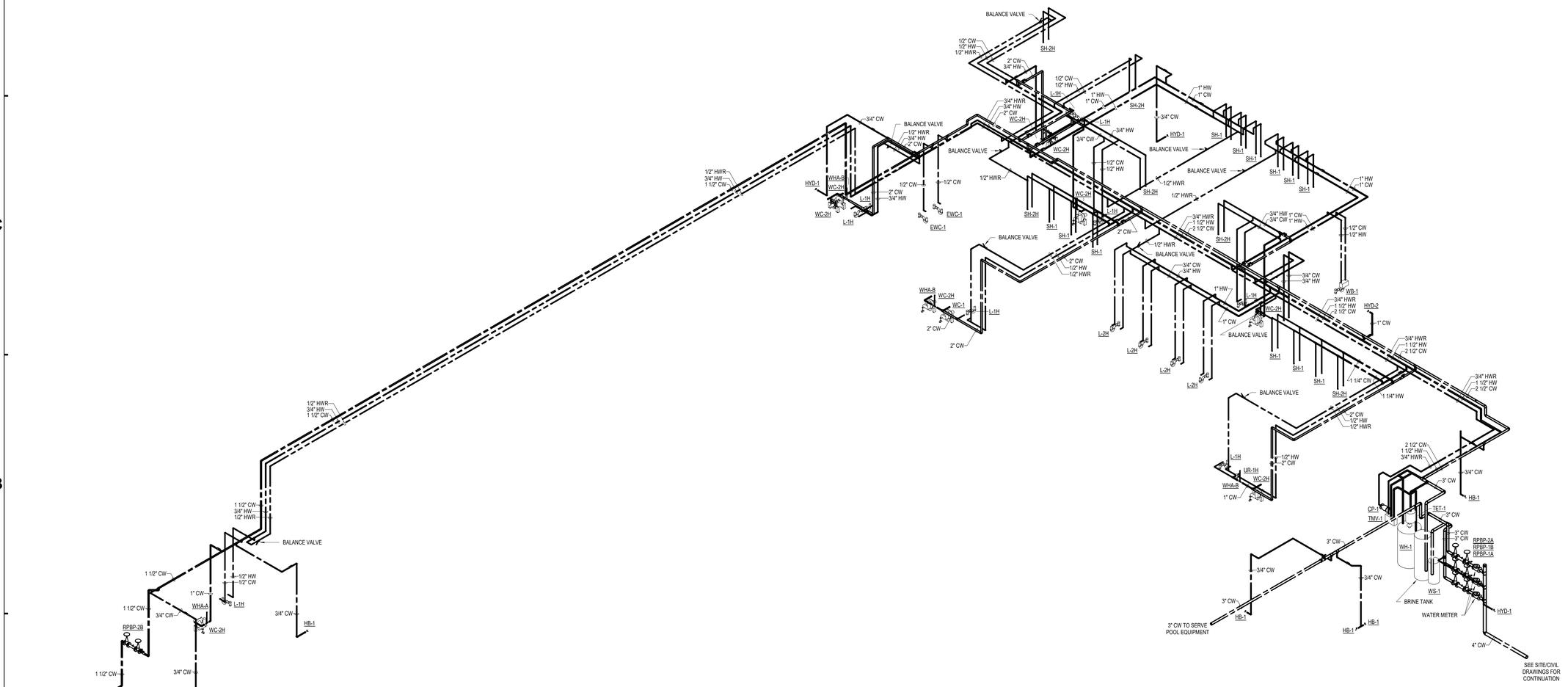

1 DOMESTIC WATER DIAGRAM

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ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

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STATE OF INDIANA
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Indianapolis, IN 46208

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DOMESTIC WATER DIAGRAM

P902

P902_DOMESTIC WATER DIAGRAM
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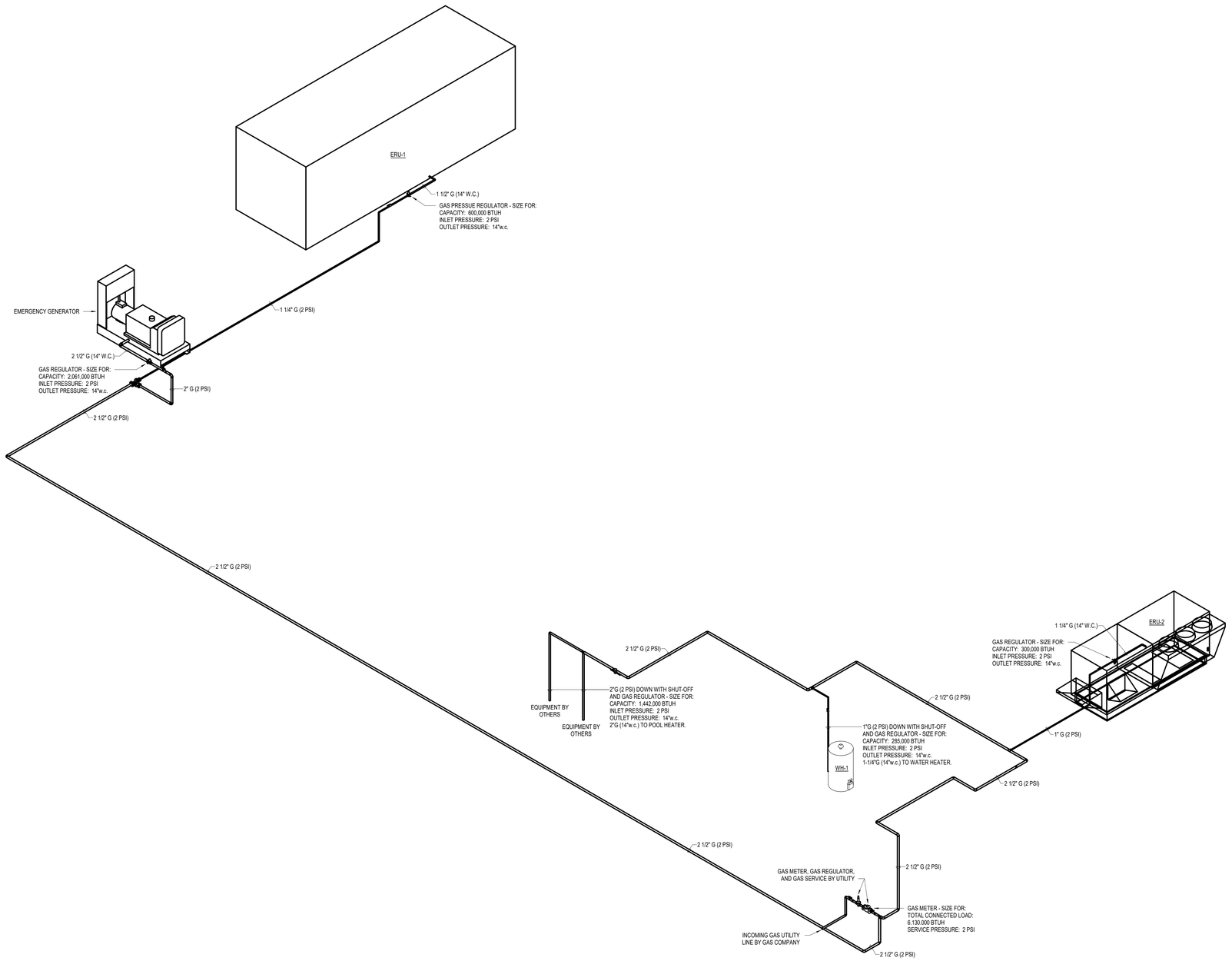

1 GAS PIPING DIAGRAM

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

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Indianapolis, IN 46208

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GAS PIPING DIAGRAM

P903

FIRE ALARM COMM IDENTITY SYMBOLS

F	FIRE FIGHTER'S PHONE
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
NAC	BATTERY PACK AND CHARGER
IAM	INDIVIDUALLY ADDRESSABLE MODULE- MONITOR (PROVIDES ADDRESS FOR CONTACT)
IAM	INDIVIDUALLY ADDRESSABLE MODULE- RELAY (PROVIDES CONTACT CLOSURE)

FIRE ALARM IDENTITY SYMBOLS

CR	CONTROL RELAY
DH	DOOR HOLDER WITH RELAY
F CLNG. / F WALL	HORN AND STROBE
H	HORN UNIT ONLY
S CLNG. / S WALL	STROBE UNIT ONLY
E CLNG. / E WALL	EMERGENCY ADDRESS SPEAKER AND STROBE
F	MANUAL PULL STATION
S CLNG. / S WALL	SMOKE DETECTOR
S	DUCT SMOKE DETECTOR W/ AUX CONTACTS
RTS	REMOTE STATION FOR DUCT DETECTOR USED AT DUCT WORK OPENING
S_E	ELEVATOR RECALL WITH AUXILIARY CONTACTS
S_R	BEAM SMOKE DETECTOR, "R" = RECEIVER
S_S	BEAM SMOKE DETECTOR, "S" = SENDING UNIT
C	CARBON MONOXIDE DETECTOR. LINE VOLTAGE WITH BATTERY BACKUP
F	FLAME DETECTOR
H	HEAT DETECTOR
H^2	HYDROGEN DETECTOR
FS	FLOW SWITCH
TS	TAMPER SWITCH
PIV	POST INDICATOR VALVE

NURSE CALL SYMBOLS

RE	REMOTE ENTERTAINMENT STATION
NM	VOIP NURSE CONSOLE
SS	STAFF STATION
PC	PULL CORD STATION
CC	CANCEL STATION
CS	STAFF ASSIST CODE BLUE STATION
IM	FIRE/AUXILARY MODULE
PH	CALL BUTTON
TV	TV WALL PLATE
<D>	CORRIDOR 4-POSITION LIGHT

ONE-LINE IDENTITY SYMBOLS

	CAPACITOR
xxAF / yyAT	CIRCUIT BREAKER (OPEN). "xxAF" INDICATES FRAME SIZE, "yyAT" INDICATES TRIP SIZE
xxAF / yyAT	CIRCUIT BREAKER (ENCLOSED). "xxAF" INDICATES FRAME SIZE, "yyAT" INDICATES TRIP SIZE
xxAF / yyAT	PRIMARY DRAW OUT TYPE CIRCUIT BREAKER. "xxAF" INDICATES FRAM SIZE, "yyAT" INDICATES TRIP SIZE
xxAF / yyAT	LOW VOLTAGE DRAW OUT TYPE CIRCUIT BREAKER, "xxAF" INDICATES FRAM SIZE, "yyAT" INDICATES TRIP SIZE
xxAF / yyAT / zzA	LOW VOLTAGE DRAW OUT TYPE CIRCUIT BREAKER WITH CURRENT LIMITING FUSES, "xxAF" INDICATES FRAME SIZE, "yyAT" INDICATES TRIP SIZE, "zzA" INDICATES FUSE RATING
	CONTACT NORMALLY OPEN (NO) ("TC"-WITH TIMED CLOSING)
	CONTACT NORMALLY CLOSED (NC) ("TO"-WITH TIMED OPENING)
CT	CURRENT TRANSFORMER CABINET
zzA	FUSED CUTOUTS, "zzA" INDICATES FUSE RATING
	DISCONNECT SWITCH UNFUSED
zzA	DISCONNECT SWITCH AIR BREAK WITH FUSE "zzA" INDICATES FUSED RATING
zzA	FUSE, "zzA" INDICATES FUSED RATING
	OVERLOAD RELAY
	GROUNDING CONNECTION-SYSTEM AND OR EQUIPMENT
K2	KIRK KEY INTERLOCK SYSTEM
	LIGHTNING ARRESTER AND GROUNDING TO PROTECT ALL PHASES
NAME VOLTS AMPS MAINS	PANELBOARD
	POTHEAD
	STRESS CONE
	RESISTOR
ST	SHUNT TRIP
#	MOTOR, "#" DESIGNATES HORSEPOWER
1	MAGNETIC STARTER WITH NEMA SIZE INDICATED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER, PERSONNEL PROTECTION
G	GENERATOR
D / Y NAME KVA PRI: SEC:	TRANSFORMER, DRY TYPE, UNLESS OTHERWISE INDICATED
(3)	POTENTIAL TRANSFORMER, "3" INDICATES QUANTITY
(3) 400-5A	CURRENT TRANSFORMER, "3" INDICATES QUANTITY, "400-5A" INDICATED RATIO
	3-PHASE, 3-WIRE DELTA CONNECTION
	CORNER GROUNDED DELTA
	3-PHASE, 4-WIRE WYE CONNECTION (GROUNDED NEUTRAL)
VFD	VARIABLE FREQUENCY DRIVE
	AUTOMATIC/MANUAL TRANSFER SWITCH, 4-POLE UON
SPD	SURGE PROTECTION DEVICE

SWITCH IDENTITY SYMBOLS

S	SINGLE POLE SWITCH
S_a	"a" INDICATES SWITCH LEG
S_3	SWITCH 3-WAY
S_4	SWITCH 4-WAY
S_{DT}	SINGLE POLE/DOUBLE THROW SWITCH
S_P	PILOT SWITCH TOGGLE
S_K	KEY OPERATED SWITCH
S_{MC}	MOMENTARY CONTACT SWITCH
S_T	DIGITAL TIMER SWITCH
S_{WP}	WEATHERPROOF SINGLE POLE SWITCH
D	DIMMER SWITCH
M	DUAL TECHNOLOGY OCCUPANCY SENSOR, WALL MOUNTED WITH OFF-AUTO OVERRIDE SWITCH
M	DUAL TECHNOLOGY OCCUPANCY SENSOR, CEILING MOUNTED

TELECOM AND ROUGH-IN IDENTITY SYMBOLS

	DATA OUTLET WITH 4 CAT-6 CABLES IN 1" C BACK TO IT RM
WAP	WIRELESS ACCESS POINT WITH 2 CAT-6 CABLES IN 1" C BACK TO IT RM
	VIDEO SURVEILLANCE CAMERA ROUGH-IN LOCATION
	DOORBELL/BUZZER/DOOR CHIME
ES	ELECTRIC DOOR STRIKE
RX	REQUEST TO EXIT
CR	CARD READER
DC	SECURITY DOOR CONTACTS
K	SECURITY KEYPAD
	SECURITY KEYPAD
IC	INTERCOMM SPEAKER ROUGHIN. INTERCONNECT ALL ROUGHINS WITH 1" CONDUIT AND PROVIDE 1" CONDUIT HOMERUN BACK TO IT ROOM

LIGHTING IDENTITY SYMBOLS

	SURFACE MOUNTED 2'x4' FIXTURE
	SURFACE MOUNTED 2'x4' EMERGENCY FIXTURE
	RECESSED MOUNTED 2'x4' FIXTURE
	RECESSED MOUNTED 2'x4' EMERGENCY FIXTURE
	SURFACE MOUNTED 1'x4' FIXTURE
	SURFACE MOUNTED 1'x4' EMERGENCY FIXTURE
	RECESSED MOUNTED 1'x4' FIXTURE
	RECESSED MOUNTED 1'x4' EMERGENCY FIXTURE
	SURFACE MOUNTED FIXTURE
	SURFACE MOUNTED EMERGENCY FIXTURE
	RECESSED MOUNTED FIXTURE
	RECESSED MOUNTED EMERGENCY FIXTURE
	SUSPENDED FIXTURE
	SUSPENDED EMERGENCY FIXTURE
	WALL MOUNTED FIXTURE
	WALL MOUNTED EMERGENCY FIXTURE
	WALL MOUNTED FIXTURE
	WALL MOUNTED EMERGENCY FIXTURE
	EXIT LIGHTING FIXTURE, ARROWS AND EXIT FACE AS INDICATED ON DWGS (MOUNTING HEIGHTS TO BE DETERMINED BY JOB SPECIFICATION
	EMERGENCY BATTERY UNIT WITH LIGHTING HEADS
	EMERGENCY BATTERY REMOTE LIGHTING HEADS
	LIGHT TRACK, LENGTH AS INDICATED ON DWGS WITH NUMBER OF HEARDS INDICATED ON DWGS
	IN-GROUND OR FLOOR MOUNTED FIXTURE
	SINGLE LUMINAIRE POLE MOUNTED SITE LIGHTING FIXTURE
	SINGLE LUMINAIRE POLE MOUNTED SITE LIGHTING FIXTURE
	SINGLE LUMINAIRE POLE MOUNTED SITE LIGHTING FIXTURE
	TWIN LUMINAIRE POLE MOUNTED SITE LIGHTING FIXTURE
	ROADWAY LUMINAIRE-COBRA HEAD
	BOLLARD TYPE SITE LIGHTING FIXTURE
"A1" "a" "NL"	LIGHTING FIXTURE LEGEND: "A1" - DESIGNATES UNIT ID, REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION. "a" - DESIGNATES SWITCH LEG "NL" - DESIGNATES NIGHT LIGHT. FIXTURE TO BE CONNECTED AHEAD OF CONTROLS

POWER IDENTITY SYMBOLS

	SINGLE CONVENIENCE RECEPTACLE
	DUPLEX CONVENIENCE RECEPTACLE. 20A 125V. WALL MOUNT DEVICE
	DOUBLE DUPLEX CONVENIENCE RECEPTACLE.
	DUPLEX RECEPTACLE. 20A 125V. HORIZONTAL WALL MOUNT DEVICE.
	GFCI DUPLEX CONVENIENCE RECEPTACLE. 20A 125V. WALL MOUNT DEVICE
	GFCI DOUBLE DUPLEX CONVENIENCE RECEPTACLE.
	SLASH INDICIATED DEVICE TO BE INSTALLED ABOVE COUNTER OR COUNTER BACKSPLASH
	SPECIAL RECEPTACLE
	CLOCK HANGER OUTLET RECESSED MOUNTED 8'-0" AFF OR 8" BELOW CEILING AS INDICATED
	FLOOR DUPLEX CONVENIENCE RECEPTACLE. SEE NOTES
	FLUSH MOUNT FLOOR BOX, WITH BOTH POWER AND VOICE/DATA RECEPTACLES, SEE NOTES
	FLUSH MOUNT FIRE RATED POKE-THRU,WITH BOTH POWER AND VOICE/DATA RECEPTACLES, SEE NOTES
	CEILING MOUNTED RECEPTACLE
	JUNCTION BOX
	MOTOR
	PUSH-BUTTON
	ON/OFF PUSH-BUTTON STATION
	THREE FUNCTION PUSH-BUTTON SWITCH (UP/DOWN/STOP)
	TOGGLE DISCONNECT SWITCH
	DISCONNECT SWITCH
	ENCLOSED CIRCUIT BREAKER
	MAGNETIC CONTACTOR
	MAGNETIC MOTOR STARTER
	COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH
VFD	VARIABLE FREQUENCY DRIVE
	HOMERUN PHASE NEUTRAL GROUND
	GENERIC HARDWIRED ELECTRICAL CONNECTION
	3/4"x10' COPPER GROUND ROD
D	DROP CORD/CORD REEL

DISTRIBUTION IDENTITY SYMBOLS

	BRANCH PANEL, RECESSED
	BRANCH PANEL, SURFACE
	DISTRIBUTION PANEL
	SWITCHGEAR SECTION
	MOTOR CONTROL CENTER (MCC)
T	TRANSFORMER
CT	CURRENT TRANSFORMER CABINET
	METER
	GROUNDING ELECTRODE BUS BAR

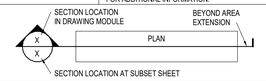
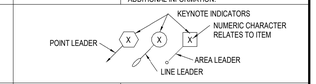
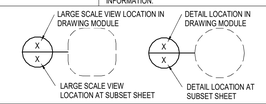
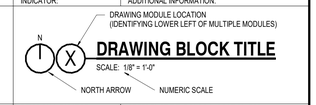
GENERAL NOTES

A. DRAWINGS ARE DIAGRAMMATIC. ALL DIMENSIONS SHOWN ARE APPROXIMATE. ALL LOCATIONS SHALL BE FIELD VERIFIED.
B. ALL WORK SHALL BE IN CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE - LATEST EDITION ADOPTED BY STATE HAVING JURISDICTION, AND THE STATE HAVING JURISDICTION ELECTRICAL CODE AMENDMENTS, LOCAL/MUNICIPAL CODES, AND THE AUTHORITY HAVING JURISDICTION.
C. ALL CONDUIT PENETRATIONS SHALL BE SEALED WITH APPROPRIATE CONDUIT SEALING MATERIAL AND SHALL MATCH FIRE RATING OF BARRIER BEING PENETRATED.
D. ALL CABLE SIZES SHALL UTILIZE COPPER CONDUCTORS UNLESS NOTED OTHERWISE.
E. FIELD VERIFY LOCATIONS OF BUILDING EXPANSION JOINTS WHEN ROUTING CONDUIT. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL BE INSTALLED WITH EXPANSION FITTINGS. EXPANSION FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC, AND MANUFACTURER'S WRITTEN RECOMMENDATIONS.
F. REFER TO ONE-LINE DIAGRAM FOR ALL FEEDER SIZES.
G. WHEN CABLE TRAY IS SHOWN ON THE PLANS AND PORTIONS OF CABLE TRAY CANNOT BE INSTALLED DUE TO CONFLICT WITH STRUCTURE, THE CONTRACTOR SHALL PROVIDE (2) 4" C. WITH INSULATED BUSHINGS THAT OVERLAP 1" INTO THE TRAY.
H. FEEDERS SHALL NOT BE COMBINED IN A RACEWAY. SINGLE PHASE BRANCH CIRCUIT HOME RUNS MAY BE COMBINED AT THE CONTRACTOR'S DISCRETION NOT GREATER THAN (3) PHASE CONDUCTORS, (3) NEUTRAL CONDUCTORS, AND A GROUNDING CONDUCTOR. WHERE CIRCUITS ARE COMBINED CONDUCTORS MUST BE DERATED ACCORDING TO NEC.
I. EACH SINGLE PHASE BRANCH CONDUCTOR SHALL HAVE A DEDICATED NEUTRAL BACK TO THE PANEL.
J. CONDUITS 2" AND LARGER THAT PENETRATE EXTERIOR WALLS SHALL USE LINK-SEALS.
K. SUPPORT ALL CABLES AND RACEWAYS ACCORDING TO NEC.
L. CONTRACTOR TO PROVIDE AND UPDATED TYPE WRITTEN PANEL INDEX UPON COMPLETION OF PROJECT.
M. OCCUPANCY SENSORS LOCATED WITHIN THE SAME ROOM/SPACE SHALL WORK IN TANDEM UNLESS NOTED OTHERWISE.
N. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR INCORRECT WORK, OR FOR INFRINGMENT UPON OTHERS WORK, DUE TO A LACK OF COORDINATION.
O. COORDINATE LOCATION OF ALL DEVICES TO BE INSTALLED IN CEILINGS (LIGHTS, SPEAKERS, DETECTORS, ETC.) WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. NOTIFY ENGINEER OF AN CONFLICTS PRIOR TO INSTALLATION.
P. DEVICES IN GENERAL SHALL BE CENTERED IN WALL SPACE IN WHICH THEY ARE INSTALLED OR THEY SHALL BE SPACED SYMMETRICALLY (FOR EXAMPLE, CENTER DEVICES WHEN MOUNTED ON FACE OF COLUMNS).
Q. WIRING SHALL BE MINIMUM #12AWG UNLESS NOTED OTHERWISE.
R. CONDUIT SHALL BE MINIMUM 3/4" UNLESS NOTED OTHERWISE.
S. LISTED SHORT CIRCUIT RATING ARE ESTIMATED FINAL RATINGS SHALL BE DETERMINED BY SHORT CIRCUIT ANALYSIS BASED ON AVAILABLE FAULT CURRENT FROM UTILITY.
T. COORDINATE AND VERIFY LOCATIONS OF DEVICES WITH BLOCK COURSING, FINISH MATERIALS, CASEWORK, ETC. PRIOR TO ROUGH-IN.
U. WIRING TO ALL RECEPTACLES ON DEDICATED CIRCUITS SHALL BE A MINIMUM #10 AWG UNLESS NOTED OTHERWISE.
V. ALL RECEPTACLES CONNECTED TO EMERGENCY CIRCUITS SHALL BE RED IN COLOR UNLESS NOTED OTHERWISE.
W. COORDINATE LOCATION OF RECEPTACLES AT ELECTRIC WATER COOLERS (EWC) WITH EWC MANUFACTURER. PROVIDE DUPLEX RECEPTACLE SO THAT IT IS CONCEALED BY EWC HOUSING.
X. ALL DEVICE BOXES SHALL BE FLUSH MOUNTED AND ALL RACEWAYS SHALL BE CONCEALED UNLESS NOTED OTHERWISE. CONTRACTOR SHALL CUT AND PATCH EXISTING WALLS WITH EXTREME CAUTION, SO AS TO MINIMIZE INVASIVNESS OF INSTALLATION. ROUTE RACEWAYS SO AS TO MINIMIZE THE AMOUNT OF CUTTING AND PATCHING REQUIRE. PATCHING SHALL COMPLY WITH ALL BID DOCUMENT REQUIREMENTS.
Y. EXISTING CONCEALED RACEWAYS AND DEVICE BOXES MAY BE REUSED IN PLACE IF DEEMED CODE COMPLIANT AND IN GOOD CONDITION. CONTRATOR IS RESPONSIBLE FOR VERIFICATION.
Z. PROVIDE 120V POWER CONNECTION TO ALL MOTORIZED DAMPERS AT EXHAUST FANS.
AA. EMERGENCY EGRESS LIGHTING IS ACCURATE TO BASIS OF DESIGN FIXTURES. ALL OTHER APPROVED EQUALS ARE RESPONSIBLE TO PROVIDE ADDITIONAL QUANTITIES AS NEEDED TO ACHIEVE CODE REQUIREMENTS.
BB. FACP SHALL COMMUNICATE USING A DACT CONFIGURATION UNLESS NOTED OTHERWISE. DACT CONFIGURATION SHALL COMPLY WITH ALL NFPA REQUIREMENTS AND SPECIFICALLY BUT NOT LIMITED TO NFPA 72 SECTION 26.6.4.1 FOR APPROPRIATE DACT CONFIGURATION.

LINETYPE DESIGNATIONS

DEMOLITION	- - - - - - - - - - - - - - - - - -
EXISTING	———————————
NEW WORK	———————————

REFERENCE SYMBOLS

SECTION INDICATOR:	REFERENCE SECTION LOCATION THROUGH AN AREA FOR ADDITIONAL INFORMATION.	KEYNOTE INDICATOR:	REFERENCE SHEET KEYNOTE LOCATION FOR ADDITIONAL INFORMATION.
			
DETAIL INDICATOR:	REFERENCE DETAIL LOCATION FOR ADDITIONAL INFORMATION.	DRAWING BLOCK TITLE INDICATOR:	REFERENCE DRAWING MODULE LOCATION FOR ADDITIONAL INFORMATION.
			
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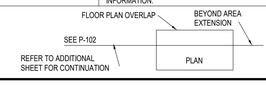		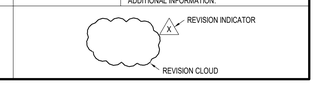	

ABBREVIATIONS AND TERMS

&	AND	EMT	ELECTRICAL METALLIC TUBING	OCP	OVERCURRENT PROTECTION
Ø	PHASE	ETR	EXISTING TO REMAIN	OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
°F	DEGREES FAHRENHEIT	EWC	ELECTRIC WATER COOLER	OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
A/C	AIR CONDITIONING	EX	EXISTING	OL	OVERLOAD
A	AMPERES	FCU	FAN COIL UNIT	OZ	OUNCE
ACCU	AIR COOLED CONDENSING UNIT	FLR	FLOOR	P	POLE, PHASE, PARALLEL
AF	AMPERE FUSE	FP	FIRE PUMP	PE	PNEUMATIC ELECTRIC
AFC	ABOVE FINISHED COUNTER	FP/VAV	FAN POWERED VAV UNIT	PF	POWER FACTOR
AFF	ABOVE FINISHED FLOOR	FT	FOOT, FEET	PH	PHASE
AFG	ABOVE FINISHED GRADE	FURN	FURNACE	PTAC	PACKAGED TERMINAL AIR CONDITIONER
AHU	AIR HANDLING UNIT	G	GROUND, GALLONS	PVC	POLYVINYL CHLORIDE CONDUIT/PIPE
AIC	AMPERES INTERRUPTING CAPACITY	GC	GENERAL CONTRACTOR	RCPT	RECEPTACLE
AL	ALUMINUM	GFI	GROUND FAULT INTERRUPTING	REV	REVOLUTIONS
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	GFCI	GROUND FAULT CIRCUIT	RGS	RIGID GALVANIZED CONDUIT
ARCH	ARCHITECT	GRD	GROUND	RM	ROOM
ATS	AUTOMATIC TRANSFER SWITCH	GND	GROUND	RPM	REVOLUTIONS PER MINUTE
AVG	AVERAGE	HHWP	HEATING HOT WATER PUMP	RPS	REVOLUTIONS PER SECOND
BAS	BUILDING AUTOMATION SYSTEM	HOA	HAND-OFF-AUTOMATIC	RTU	ROOF TOP UNIT
B/I	BYPASS ISOLATION	HORIZ	HORIZONTAL	SF	SQUARE FOOT
BE	BOTTOM ELEVATION	HP	HORSEPOWER	SPEC	SPECIFICATION
BLDG	BUILDING	HR	HOUR(S)	SQ	SQUARE
BMS	BUILDING MANAGEMENT SYSTEM	HRTU	HEATING ONLY ROOFTOP UNIT	ST	SHUNT TRIP
BSMT	BASEMENT	Hz	HERTZ	STD	STANDARD
C	CONDUIT	IAC	INSTRUMENTATIONS AND CONTROLS	SW	SWITCH
CB	CIRCUIT BREAKER	ID	INSIDE DIAMETER	TBD	TO BE DETERMINED
CBA	COLOR BY ARCHITECT	IN	INCH, INCHES	TBI	TO BE INSTALLED
CCW	COUNTERCLOCKWISE	INT	INTERIOR	TBR	TO BE REMOVED
CH	CHILLER	JP	JOCKEY PUMP	TC	TEMPERATURE CONTROLS
CHWP	CHILLED WATER PUMP	K	KELVIN, KEYED	TCC	TEMPERATURE CONTROLS CONTRACTOR
CLG	CEILING	kW	KILOWATT	TR	TAMPER RESISTANT
CMT	CONDUIT EMPTY	KVA	KILOVOLT AMPS	TEMP	TEMPERATURE
COMPR	COMPRESSOR	LBS	POUNDS	TF	TRANSFER FAN
COND	CONDENSER	LSI, LSIG	TRIP TYPE - LONG, SHORT, INSTANTANEOUS, GROUND FAULT	TRANS	TRANSITION
CONV	CONVECTOR	LTG	LIGHTING	TYP	TYPICAL
CT	COOLING TOWER	MAX	MAXIMUM	UH	UNIT HEATER
CU	CONDENSING UNIT, COPPER	MC	MECHANICAL CONTRACTOR	UON/UNO	UNLESS OTHERWISE NOTED
CUH	CABINET UNIT HEATER	MCA	MINIMUM CIRCUIT AMPS	UV	UNIT VENTILATOR
CUV	CLASSROOM UNIT VENTILATOR	MCC	MOTOR CONTROL CENTER	V	VOLTS
CW	CLOCKWISE	MFR	MANUFACTURER	VAV	VARIABLE AIR VOLUME
CWP	CONDENSER WATER PUMP	MIN	MINIMUM	VB	VACUUM BREAKER
D	DEDICATED CIRCUIT	MISC	MISCELLANEOUS	VERT	VERTICAL
DC	DIRECT CURRENT	MOP	MAXIMUM OVERCURRENT PROTECTION	VF	VENTILATION FAN
DS	DISCONNECT SWITCH	MTD	MOUNTED	VFD	VARIABLE FREQUENCY DRIVE
DWH	DOMESTIC WATER HEATER	MV	MEDIUM VOLTAGE	W	WIRE, WATT
DWG	DRAWING	NA	NOT APPLICABLE	WP	WEATHERPROOF
EA	EACH	NEC	NATIONAL ELECTRIC CODE	W/	WITH
EC	ELECTRICAL CONTRACTOR	NIC	NOT IN CONTRACT	W/O	WITHOUT
EF	EXHAUST FAN	NL	NIGHT LIGHT	WSHP	WATER SOURCE HEAT PUMP
EFF	EFFICIENCY	NOM	NOMINAL		
EL	ELEVATION	NTS	NOT TO SCALE		

NOT ALL NOTES, DESIGNATORS, SYMBOLS OR ABBREVIATIONS MAY APPLY TO THIS PROJECT

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

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Produced Designer Author

JOYCE ELLEN JONES REGISTERED No. PE60920263 STATE OF INDIANA PROFESSIONAL ENGINEER

#	Revision	Date
	Addendum #1	01/05/2023

5640 N Illinois St
Indianapolis, IN 46208

KEY PLAN

The Riviera Club

Aquatics Center

SYMBOLS AND ABBREVIATIONS

E000

E000 - SYMBOLS AND ABBREVIATIONS
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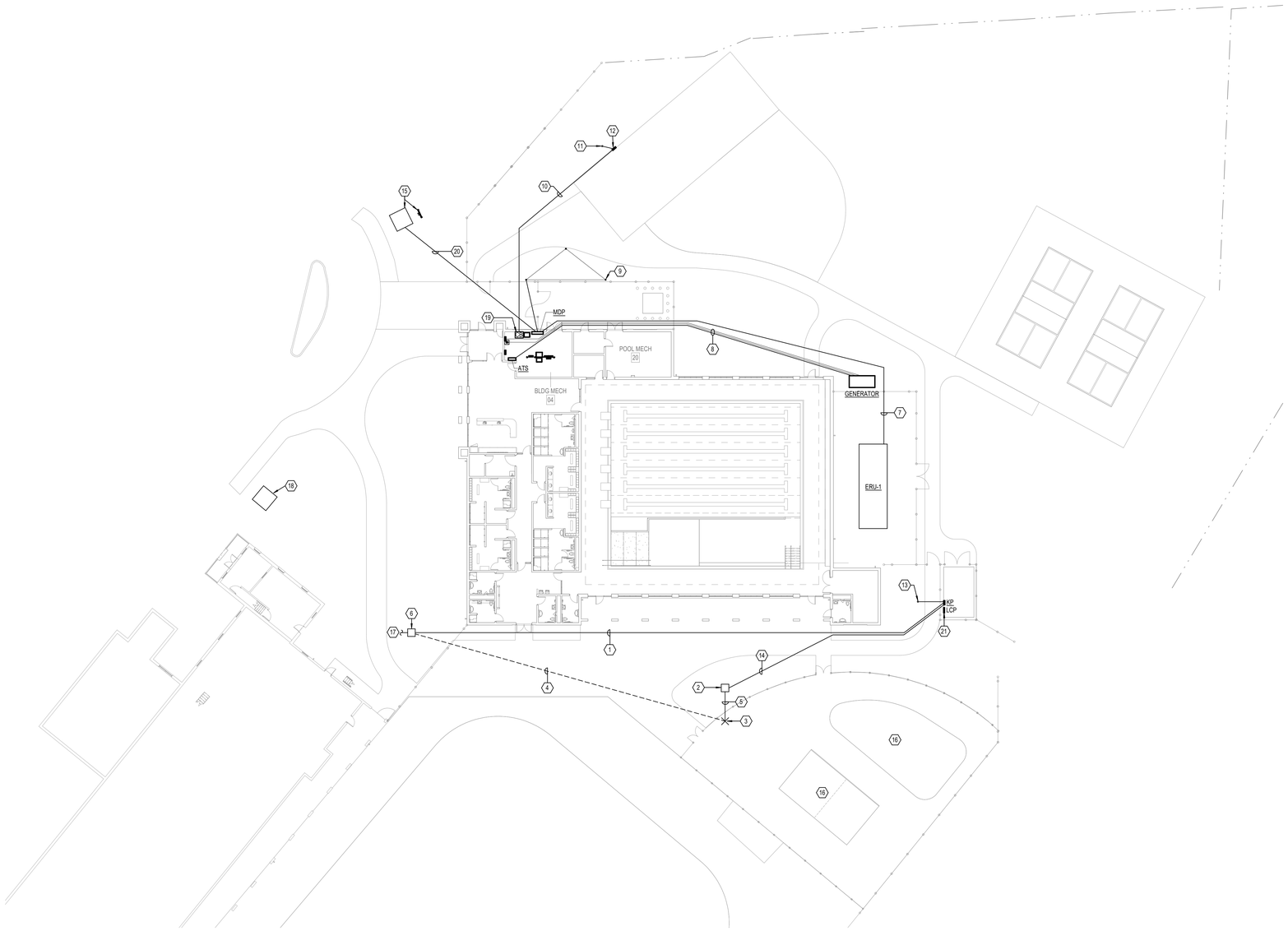

1 ELECTRICAL SITE PLAN
1" = 20'-0"

SHEET KEYNOTES

1 PROVIDE 2-1/2" CONDUIT FROM HANDHOLE ESTABLISHED IN THE DEMOLISHION PHASE TO NEW PANEL WITHIN SPLASH PAD/KIDDIE POOL EQUIPMENT ROOM. PROVIDE NEW WIRING TO NEW PANEL FROM EXISTING BREAKER SERVING DEMOLISHED PANEL, CIRCUIT SHALL CONSIST OF (4) #3/0, #6 G.

2 IN DEMOLITION PHASE OF CONSTRUCTION PROVIDE 36" L x 36" W x 30" D, POLYMER CONCRETE, OPEN BASE HANDHOLE FOR CONSOLIDATION POINT FOR EXISTING CIRCUITS FROM DEMOLISHED PANEL ON UNISTRUT. BASIS OF DESIGN HUBBELL QUAZITE HANDHOLE. PROVIDE LABEL ON LID OF HANDHOLE TO READ "POWER". LOCATION OF HANDHOLE IS SHOWN APPROXIMATLY BUT SHALL BE IN GRASSY AREA OUTSIDE OF KIDDIE POOL ENCLOSURE SIMILAR TO SHOWN. PROVIDE PROTECTION FOR EXISTING CONDUITS AND HANDHOLE THROUGH CONSTRUCTION TO MAINTAIN MATERIAL INTEGRITY.

3 LOCATION OF EXISTING EXTERIOR UNISTRUT MOUNTED PANEL AND LIGHTING CONTACTOR SERVING EXISTING KIDDY POOL MECHANICAL SHED AND EXTERIOR POOL LIGHTING. PANEL TO BE DEMOLISHED DURING SITE PREPERATION PHASE. CONDUITS FOR PANEL SHALL BE EXTENDED AS NOTED BY SEPARATE KEYNOTE. WIRE FROM PANEL SHALL BE REMOVED BACK TO FIRST DEVICE OF CIRCUIT TO BE REPLACED BY NEW WHEN CIRCUITS ARE REFED FROM PANEL KP AND ASSOCIATED LIGHTING CONTROL PANEL. ANY CIRCUITS (CONDUIT AND WIRE) FROM PANEL TO LOADS WITHIN EXISTING KIDDY POOL SHEDS OR LOADS THAT ARE BEING REMOVED AS NOTED BY OTHERS ARE TO BE DEMOLISHED WITH ASSOCIATED LOADS.

4 CONDUIT FOR EXISTING UNISTRUT MOUNTED PANEL FROM EXISTING BUILDING TO BE DEMOLISHED FROM PANEL TO HANDHOLE AS SHOWN. AT HANDHOLE CONDUIT TO BE MODIFIED TO STUB UP INTO HANDHOLE. WIRE FOR SERVICE TO PANEL SHALL BE COMPLETELY REMOVED.

5 CONDUITS FOR CIRCUITS OF THE UNISTRUT PANEL TO BE DEMOLISHED THAT ARE TO REMAIN PER THE PANEL'S KEYNOTE SHALL BE DEMOLISHED DOWN TO FIRST BELOW GRADE STRAIGHT HORIZANTAL SECTION. FROM NEW END OF CONDUIT, CONDUIT SHALL BE EXTEDED TO HANDHOLE AS SHOWN AND STUBBED UP INTO ASSOCIATED HANDHOLE TO BE USED AS A JUCTION POINT FOR REFEED TO EXISTING LOADS.

6 IN DEMOLITION PHASE OF CONSTRUCTION PROVIDE 24" L x 24" W x 30" D, POLYMER CONCRETE, OPEN BASE HANDHOLE FOR JUNCTION POINT FOR NEW KP PANEL FEEDER. BASIS OF DESIGN HUBBELL QUAZITE HANDHOLE. PROVIDE LABEL ON LID OF HANDHOLE TO READ "POWER". LOCATION OF HANDHOLE IS SHOWN APPROXIMATLY BUT SHALL BE IN GRASSY AREA, OUTSIDE OF POOL ENCLOSURE, AND ALONG FEEDER PATH TO EXISTING UNISTRUT MOUNTED PANEL, SIMILAR TO SHOWN. PROVIDE PROTECTION FOR EXISTING CONDUITS AND HANDHOLE THROUGH CONSTRUCTION TO MAINTAIN MATERIAL INTEGRITY.

7 APPROXIMATE ROUTING OF FEEDER FROM PANEL MDP TO ERU-1. ROUTING SHALL AVOID GOING UNDER GENERATOR AND BUILDING EXCEPT WITHIN MECHANICAL ROOM AS REQUIRED.

8 APPROXIMATE ROUTING OF FEEDER FROM GENERATOR TO ATS. ADDITIONALTY, CONTROL CONDUITS FOR ESTOP AND ANNUNCIATOR PANEL ARE TO BE ROUTED PARRALLEL WITH FEEDER BETWEEN GENERATOR AND ATS. ROUTING SHALL AVOID GOING BUILDING TO THE EXCEPT WITHIN MECHANICAL ROOM ATS IS IN.

9 PROVIDE BUILDING GROUNDING TRIAD WITHIN GRASSY AREA AS SHOWN. ARROW SHOWN INDICATES TYPICAL GROUND ROD.

10 APPROXIMATE ROUTING FOR NEW FEEDER TO EXISTING PANEL ON RIVIERA PAVILLION. REFER TO RISER DIAGRAM FOR FUTHER FEEDER INFORMATION.

11 PROVIDE REMOTE BUILDING GROUND ROD FOR EXISTING PANEL IN GRASSY AREA AS SHOWN.

12 EXISTING PANEL NOTED AS PANEL EX ON RISER DIAGRAM. ENSURE EXISTING PANEL HAS A NEUTRAL TO GROUND CONNECTION. IF PANEL DOES NOT HAVE NEUTRAL TO GROUND CONNECTION CREATE NEUTRAL TO GROUND CONNECTION. IF REQUIRED TO MAKE NEUTRAL TO GROUND CONNECTION REPLACE MAIN CIRCUIT BREAKER WITH SERVICE ENTRY RATED 125A/3P BREAKER COMPATIBLE WITH PANEL. PANEL IS SEIMENS P1X30MC250AT. EXISTING CONDUIT FEED SHALL BE ABANDONED AND MODIFIED TO ALLOW FOR NEW FEED PER RISER DIAGRAM.WIRE OF EXISTING FEED SHALL BE REMOVED.

13 PROVIDE REMOTE BUILDING GROUND ROD FOR NEW PANEL KP IN GRASSY AREA AS SHOWN.

14 EXTEND EXISTING LOAD CONDUITS FROM THE DEMOLISHED UNISTRUT MOUNTED PANEL TO NEW PANEL KP. USING RENOVATED CONDUIT PATHS PROVIDE WIRE TO EXIKSTING LOADS UTILIZE (2) #10, #10 G. TO FEED ALL 20A/1 POLE CIRCUITS REMAINING. FOR ANY LOADS REMAINING OF HIGHER APPERAGE OR POLE COUNT SUBMIT RFI FOR ENGINEER SHOWING LOAD LOCATION AND LOAD NAMEPLATE INFORMATION FOR ASSOCIATED WIRE SIZE.

15 NEW UTILITY TRANSFORMER AND UNISTRUT MOUNTED METER. PROVIDE TRANSFORMER PAD PER AES STANDARDS. COORDINATE WITH AES FOR ANY ADDITIONAL ROUGH IN REQUIREMENTS.

16 PRIOR TO EXCAVATION SITEWORK ELECTRICAL CONTRACTOR SHALL CONFIRM THAT NO EXISTING TO REMAIN CONDUITS/CIRCUITS ARE WITHIN 5' FOOTPRINT OF WATER FEATURE. IF THERE ARE CONDUITS IN SUCH SENERIO CONTACT ENGINEER FOR DIRECTION.

17 TO PANEL AND BREAKER WITHIN EXISTING BUILDING PREVIOUSLY SERVING EXTERIOR UNISTRUT PANEL.

18 EXISTING UTILITY TRANSFORMER TO REMAIN

19 ENCLOSED CIRCUIT BREAKER FOR PAVILION PANEL EX. PROVIDE AS NOTED ON ELECTRICAL RISER DIAGRAM.

20 APPROXIMATE ROUTING OF SECONDARY FROM UTILITY TRANSFORMER TO MDP. PROVIDE AS NOTED ON ELECTRICAL RISER DIAGRAM.

21 PROVIDE LIGHTING CONTROL PANEL TO REPLACE EXISTING CONTACTOR PREVIOUSLY ON EXTERIOR UNISTRUT RACK. LIGHTING CONTROL PANEL SHALL HAVE 365-DAY PROGRAMABLE CONTROL ASTONOMICAL TIMECLOCK AND PHOTOCELL COMPATIBILITY.

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
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KEY PLAN

N

The Riviera Club

Aquatics Center

ELECTRICAL SITE PLAN

E101

E101_ELECTRICAL SITE PLAN
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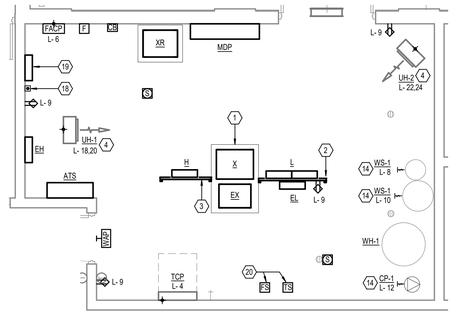
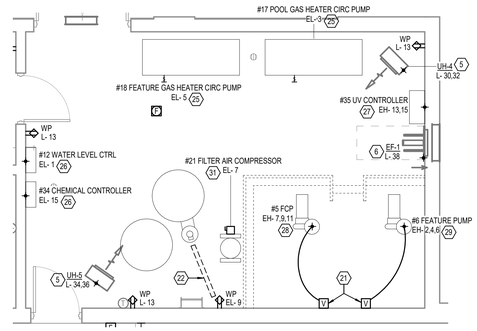
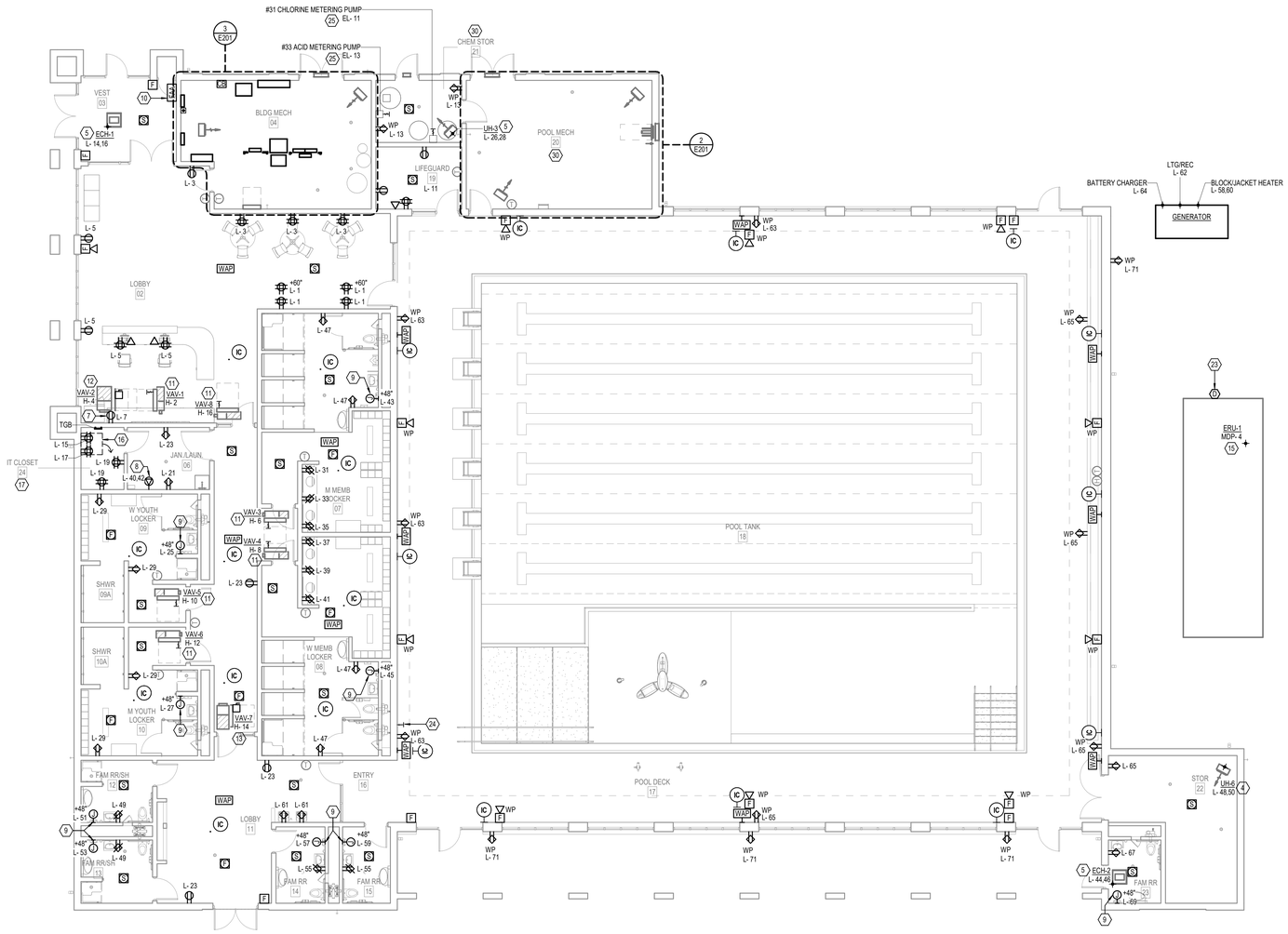


3 ENLARGED ELECTRICAL ROOM
1/4" = 1'-0"



2 ENLARGED POOL MECHANICAL
1/4" = 1'-0"



1 FIRST FLOOR ELECTRICAL PLAN
1/8" = 1'-0"

GENERAL NOTES

A REFER TO SHEET E-000 FOR GENERAL ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.

B CIRCUIT DESIGNATION AT THE CENTER OF THE ROOM OR BELOW ROOM TAG SIGNIFIES THAT ALL DEVICES WITHIN THAT SPACE ARE TO BE ON NOTED CIRCUIT.

D COORDINATE ALL POOL EQUIPMENT LOCATIONS WITH POOL CONTRACTOR. MODIFY POWER FEEDS AND LOCAL DISCONNECT LOCATIONS PER POOL CONTACTOR COORDINATION.

SHEET KEYNOTES

1 PROVIDE 4" TALL EQUIPMENT PAD FOR EQUIPMENT AS SHOWN. DIMENSIONS OF PAD SHALL EXTEND 4" PAST THE EXTENT OF EQUIPMENT FOOTPRINT.

2 PROVIDE 6'-6" TALL, 4'-6" WIDE, DOUBLE SIDED, FLOOR MOUNTED SECTION OF ALUMINUM UNISTRUT RACK. PROVIDE HORIZANTAL SUPPORTS AS REQUIRED TO SUPPORT ELEMENTS AS SHOWN. MOUNT UNISTRUT DIRECTLY ADJACENT TO TRANSFORMER EQUIPMENT PAD.

3 PROVIDE 6'-6" TALL, 3'-4" WIDE, DOUBLE SIDED, FLOOR MOUNTED SECTION OF ALUMINUM UNISTRUT RACK. PROVIDE HORIZANTAL SUPPORTS AS REQUIRED TO SUPPORT ELEMENTS AS SHOWN. MOUNT UNISTRUT DIRECTLY ADJACENT TO TRANSFORMER EQUIPMENT PAD.

4 PROVIDE ELECTRICAL CONNECTION TO 208V 2 POLE MECHANICAL EQUIPMENT WITH INTERGRAL DISSCONNECTING MEANS. CIRCUIT SHALL BE 2 #12, #12G IN ¾" CONDUIT.

5 PROVIDE ELECTRICAL CONNECTION TO 208V 2 POLE MECHANICAL EQUIPMENT WITH INTERGRAL DISSCONNECTING MEANS. CIRCUIT SHALL BE 2 #10, #10G IN ¾" CONDUIT.

6 PROVIDE ELECTRICAL CONNECTION TO 120V SINGLE POLE MECHANICAL EQUIPMENT WITH INTERGRAL DISCONNECTING MEANS. CIRCUIT SHALL BE 2 #12, #12G IN ¾" CONDUIT.

7 INSTALL RECEPTACLE SO THAT IT IS FLUSH WITH BACK OF CASEWORK. PROVIDE GROMMETED HOLE ON SIDE OF CASEWORK FOR PATHWAY FOR CORDED CONNECTION OF REFRIGERATED MERCHANDISER. RECEPTACLE SHALL BE DEDICATED TO REFRIGERATED MERCHANDISER.

8 PROVIDE NEMA 14-30R FOR CLOTHES DRYER. CIRCUIT TO RECEPTACLE SHALL BE 3 #10, #10G IN ¾" CONDUIT.

9 PROVIDE DEDICATED 20A ELECTRICAL CONNECTION FOR HAND DRYER PROVIDED BY OTHERS. CIRCUIT TO HAND DRYER SHALL BE 2#12, #12 G. IN ¾" CONDUIT.

10 FIRE ALARM ANNUNICIATOR PANEL SHALL BE RECESS MOUNTED SO THAT FLUSH WITH WALL.

11 PROVIDE ELECTRICAL CONNECTION TO 277V SINGLE POLE MECHANICAL EQUIPMENT. PROVIDE A 20A SINGLE POLE TOGGLE SWITCH AS EQUIPMENT DISCONNECTING MEANS. CIRCUIT SHALL BE 2 #12, #12G IN 3/4" CONDUIT.

12 PROVIDE ELECTRICAL CONNECTION TO 277V SINGLE POLE MECHANICAL EQUIPMENT. PROVIDE A 60A/1PN1 NON-FUSED DISCONNECT SWITCH AS EQUIPMENT DISCONNECTING MEANS. CIRCUIT SHALL BE 2 #6, #10G IN 1" CONDUIT.

13 PROVIDE ELECTRICAL CONNECTION TO 277V SINGLE POLE MECHANICAL EQUIPMENT. PROVIDE A 20A SINGLE POLE TOGGLE SWITCH AS EQUIPMENT DISCONNECTING MEANS. CIRCUIT SHALL BE 2 #12, #12G IN 3/4" CONDUIT.

14 PROVIDE ELECTRICAL CONNECTION TO 120V SINGLE POLE PLUMBING EQUIPMENT. PROVIDE A 20A SINGLE POLE TOGGLE SWITCH AS EQUIPMENT DISCONNECTING MEANS. CIRCUIT SHALL BE 2 #12, #12G IN 3/4" CONDUIT.

15 PROVIDE ELECTRICAL CONNECTION TO 480V 3 POLE MECHANICAL EQUIPMENT WITH INTERGRAL DISCONNECTING MEANS. CIRCUIT SHALL BE 4 #350, #4G IN 3" CONDUIT FED UNDERGROUND ALONG THE PERIMETER OF THE BUILDING.

16 PROVIDE A WALL MOUNT HINGED 26 RU TECHNOLOGY RACK ENCLOSURE. PROVIDE HINGING SO THAT RACKK WILL SWING AS SHOWN BY ARROW.

17 ENTIRETY OF ROOM FROM 1' AFF TO 1' BELOW FINISHED CEILING SHALL BE COVERED BY ½" PLYWOOD PAINTED IN FIRE RETARDANT PAINT. ALL DEVICES SHALL BE MOUNTED SO THAT FLUSH WITH PLYWOOD.

18 GENERATOR REMOTE STOP EPO. PROVIDE CONNECTIONS PER GENERATOR NOTES DETAIL.

19 GENERATOR ANNUNCIATOR PANEL. PROVIDE CONNECTIONS PER GENERATOR NOTES DETAIL.

20 PROVIDE TAMPER AND FLOW SWITCHES FOR FIRE PROTECTION RISER. PROVIDE INTERCONNECTION FROM EACH SWITCH TO FACP. COORDINATE QUANITY AND LOCATIONS OF TAMPER AND FLOW SWITCHES WITH FIRE PROTECTION CONTRACTOR AND PROVIDE QUANTITY PER FIRE PROTECTION CONTRACTOR COORDINATION.

21 VFD FURNISHED BY OTHERS INSTALLED BY ELECTRICAL CONTRACTOR. ALL ASSOCIATED CONNECTIONS TO BE BY ELECTRICAL CONTRACTOR.

22 PROVIDE 2 CHANNEL HEAVY DUTY CABLE PROTECTOR FOR CABLE PATHWAY BETWEEN DEDICATED RECEPTACLE AND REGENERATIVE FILTER VACUUM TRANSFER UNIT AS SHOWN BY DASHED LINES. BASIS OF DESIGN IS ULINE H-9437 2 CHANNEL CABLE PROTECTOR.

23 PROVIDE WEATHER PROOF DUCT DETECTOR ON RETURN DUCT IN LOCATION SHOWN ON MECHANICAL DRAWINGS. PROVIDE INTERCONNECTION TO FACP.

24 PROVIDE LOW VOLTAGE DIAL STYLE TIMER SWITCH WITH STAINLESS STEEL FACEPLATE AND PLASTIC DIAL TO BE INTERCONNECTED WITH RELAY TO CONTROL POOL THERAPY JETS. PROVIDE WITH LOCKABLE OPAQUE ENCLOSURE.

25 PROVIDE ELECTRICAL CONNECTION TO 120V SINGLE POLE POOL EQUIPMENT. PROVIDE A 20A SINGLE POLE COMBONATION MOTOR STARTER DISCONNECT AS EQUIPMENT DISCONNECTING MEANSAND STARTING METHOD. CIRCUIT SHALL BE 2 #12, #12G IN 3/4" CONDUIT.

26 PROVIDE ELECTRICAL CONNECTION TO 120V SINGLE POLE POOL EQUIPMENT WITH INTERGRAL DISCONNECTING MEANS. CIRCUIT SHALL BE 2 #8, #10G IN ¾" CONDUIT.

27 PROVIDE ELECTRICAL CONNECTION TO 480V TWO POLE POOL EQUIPMENT WITH INTERGRAL DISCONNECTING MEANS. CIRCUIT SHALL BE 3 #8, #10G IN ¾" CONDUIT.

28 PROVIDE ELECTRICAL CONNECTION TO 480V THREE POLE POOL EQUIPMENT WITH VFD WITH DISCONNECTING MEANS. VFD TO BE PROVIDED BY OTHERS CONNECTIONS BETWEEN EQUIPMENT VFD AND PANEL TO BE BY ELECTRICAL CONTRACTOR. CIRCUIT SHALL BE 3 #6, #10G IN 1" CONDUIT.

29 PROVIDE ELECTRICAL CONNECTION TO 480V THREE POLE POOL EQUIPMENT WITH VFD WITH DISCONNECTING MEANS. VFD TO BE PROVIDED BY OTHERS CONNECTIONS BETWEEN EQUIPMENT VFD AND PANEL TO BE BY ELECTRICAL CONTRACTOR. CIRCUIT SHALL BE 3 #8, #10G IN 1" CONDUIT.

30 EQUIPMENT SHOWN WITHIN ROOM IS SHOWN AS REFERENCE ONLY. COORDINATE EXACT EQUIPMENT LOCATIONS WITH POOL EQUIPMENT CONTRACTOR PRIOR TO ROUGH IN.

31 PROVIDE ELECTRICAL CONNECTION TO 120V SINGLE POLE POOL EQUIPMENT. PROVIDE A 60A SINGLE POLE, NEMA 4X SS, NON-FUSED DISCONNECT AS EQUIPMENT LOCAL DISCONNECTING MEANS. CIRCUIT SHALL BE 2 #6, #10G IN 1" CONDUIT.

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2021-178.RVI
Project Date 12.05.2022
Produced Designer Author

JOYCE ELLEN JONES REGISTERED No. PE60920263 STATE OF INDIANA PROFESSIONAL ENGINEER

#	Revision	Date
	Addendum #1	01/05/2023

5640 N Illinois St
Indianapolis, IN 46208

KEY PLAN

N

The Riviera Club

Aquatics Center

FIRST FLOOR ELECTRICAL PLAN

E201

E201 - FIRST FLOOR ELECTRICAL PLAN
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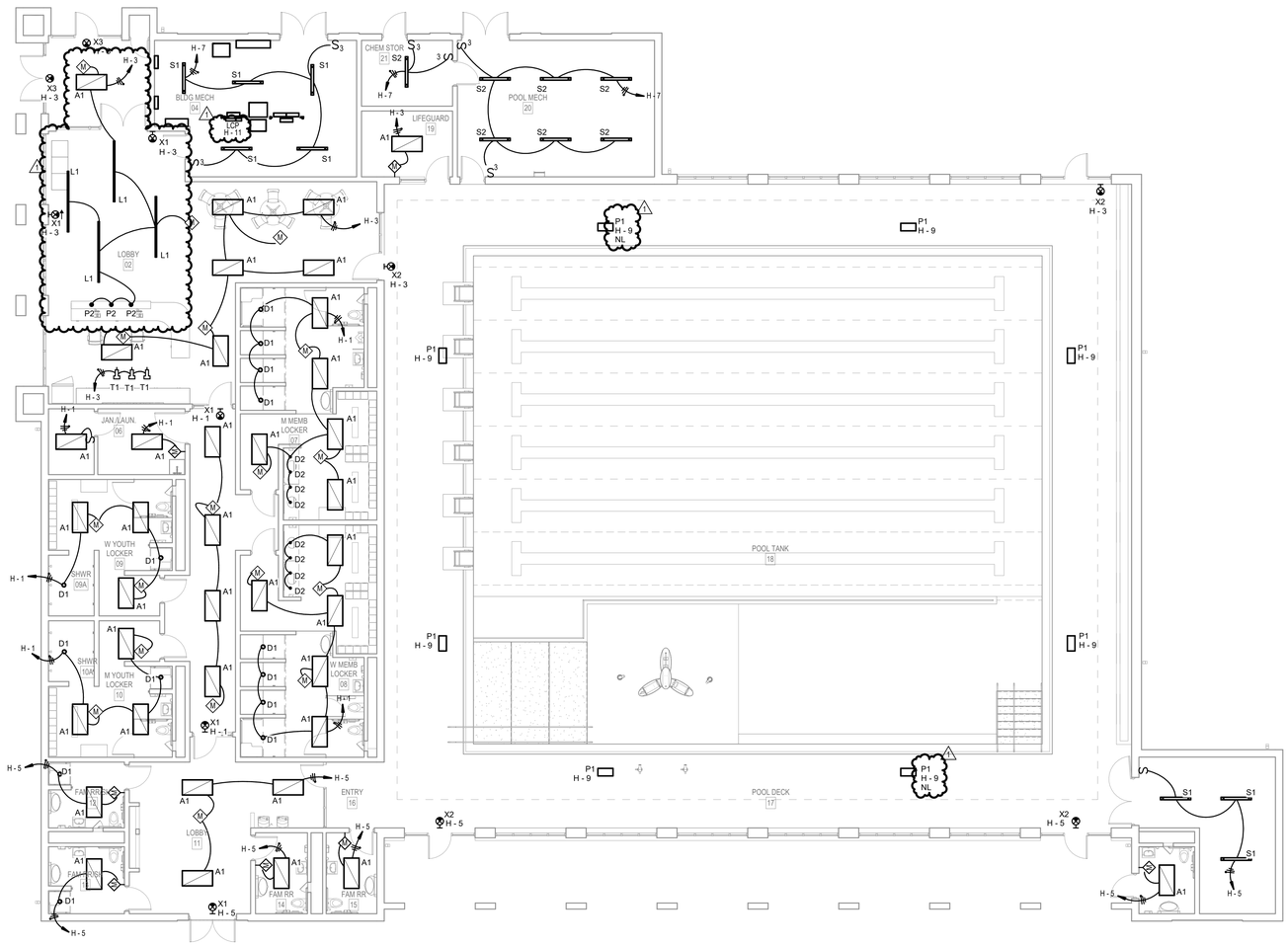

1 FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

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KEY PLAN

N

The Riviera Club

Aquatics Center

FIRST FLOOR LIGHTING

E301

E301 - FIRST FLOOR LIGHTING
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Branch Panel: L

Location: BLDG MECH-1 8-1
Supply From: X
Mounting: SURFACE, UNISTRUT
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 30,000
Mains Type: MCB
Mains Rating: 250 A
MCB Rating: 250 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPT: LOBBY	20 A	1	1440	0					1	20 A	SPARE	2
3	RECEPT: ENTRY VEST, LOBBY	20 A	1			1260	180			1	20 A	MECHANICAL CONTROLLER TCP	4
5	RECEPT: LOBBY DESK	20 A	1					1080	180	1	20 A	FACP	6
7	RECEPT: LOBBY FRIDGE	20 A	1	180	200					1	20 A	WATER SOFTENER WS-1	8
9	RECEPT: BLDG MECH	20 A	1			720	200			1	20 A	WATER SOFTENER WS-1	10
11	RECEPT: LIFEGUARD	20 A	1					720	0	1	20 A	CIRCULATION PUMP CP-1	12
13	RECEPT: CHEM STORAGE, POOL MECH	20 A	1	900	1997					2	25 A	HVAC: ECH-1	14
15	RECEPT: IT EQUIPMENT	20 A	1			1500	1997						16
17	RECEPT: IT EQUIPMENT	20 A	1					1500	1500	2	20 A	HVAC: UH-1	18
19	RECEPT: IT CLOSET	20 A	1	720	1500								20
21	RECEPT: CLOTHES WASHER	20 A	1			1300	1500			2	20 A	HVAC: UH-2	22
23	RECEPT: JANITOR, LOBBY, CORRIDOR	20 A	1					720	1500				24
25	W YOUTH LOCKER HAND DRYER	20 A	1	1200	1737					2	25 A	HVAC: UH-3	26
27	M YOUTH LOCKER HAND DRYER	20 A	1			1200	1737						28
29	RECEPT: YOUTH LOCKERS	20 A	1					720	1737	2	25 A	HVAC: UH-4	30
31	RECEPT: M MEMBER VANITY	20 A	1	180	1737								32
33	RECEPT: M MEMBER VANITY	20 A	1			180	1737			2	25 A	HVAC: UH-5	34
35	RECEPT: M MEMBER VANITY	20 A	1					180	1737				36
37	RECEPT: W MEMBER VANITY	20 A	1	180	1176					1	15 A	HVAC: EF-1	38
39	RECEPT: W MEMBER VANITY	20 A	1			180	3120			2	30 A	RECEPT: CLOTHES DRYER	40
41	RECEPT: W MEMBER VANITY	20 A	1					180	3120				42
		Total Load:		20887 VA		27531 VA		24146 VA					
		Total Amps:		174 A		234 A		205 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	30352 VA	100.00%	30352 VA	
RECEPT	25300 VA	69.76%	17650 VA	**Total Conn. Load:** 72564 VA
Miscellaneous Power	16912 VA	100.00%	16912 VA	**Total Est. Demand:** 64914 VA
				Total Conn.: 201 A
				Total Est. Demand: 180 A

Notes:
DOUBLE TUB PANEL SECOND SECTION CONTINUED ON PANEL SCHEDULE L WITH CIRCUIT NUMBERS 42-84. LOAD CALCULATION SHOWN ON THIS PANEL ACCOUNTS FOR SECOND SECTION LOAD.

Branch Panel: H

Location: BLDG MECH-1 8-1
Supply From: MDP
Mounting: SURFACE, UNISTRUT
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LIGHTING: LOCKER ROOMS	20 A	1	1177	701					1	15 A	HVAC: VAV-1	2
3	LIGHTING: FRONT LOBBY	20 A	1			617	12099			1	50 A	HVAC: VAV-2	4
5	LIGHTING: AUXILLRY LOBBY	20 A	1					476	2800	1	15 A	HVAC: VAV-3	6
7	LIGHTING: BACK OF HOUSE	20 A	1	417	2800					1	15 A	HVAC: VAV-4	8
9	LIGHTING: POOL LIGHTING	20 A	1			3480	2100			1	20 A	HVAC: VAV-5	10
11	LIGHTING BLDG MECH-1 8-1	20 A	1					0	2100	1	20 A	HVAC: VAV-6	12
13	SPARE	20 A	1	0	6800					1	40 A	HVAC: VAV-7	14
15	SPARE	20 A	1			0	2399			1	15 A	HVAC:VAV-8	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	0					1	20 A	SPARE	26
27	SPARE	20 A	1			0	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	--	1	--	SPACE	30
31	SPARE	20 A	1	0	--					1	--	SPACE	32
33	SPARE	20 A	1			0	--			1	--	SPACE	34
35	SPARE	20 A	1					0	--	1	--	SPACE	36
37	SPARE	20 A	1	0	--					1	--	SPACE	38
39	SPARE	20 A	1			0	--			1	--	SPACE	40
41	SPARE	20 A	1					0	--	1	--	SPACE	42
		Total Load:		11896 VA		20694 VA		5376 VA					
		Total Amps:		47 A		78 A		19 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	31800 VA	100.00%	31800 VA	
LIGHTING	6166 VA	125.00%	7708 VA	**Total Conn. Load:** 37966 VA
				Total Est. Demand: 39508 VA
				Total Conn.: 46 A
				Total Est. Demand: 48 A

Notes:

Switchboard: MDP

Location: BLDG MECH-1 8-1
Supply From:
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 1200 A
MCB Rating: 1200 A

Notes:

CKT	Circuit Description	# of Poles	Trip Rating	Load	Remarks
1	SPD TYPE 1	3	60 A	0 VA	REFER TO NOTE 1 IN NOTES SECTION
2	PANEL H	3	100 A	37966 VA	
3	ATS	3	200 A	58602 VA	
4	HVAC: ERU-1	3	300 A	215645 VA	
5	HVAC: EKO-1	3	70 A	39508 VA	
6	TRANSFORMER XR	3	70 A	0 VA	
7	TRANSFORMER X	3	125 A	72564 VA	
8	SPARE	3	125 A	0 VA	
9	SPARE	1	400 A	0 VA	
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
				434803 VA	
				523 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	327822 VA	100.00%	327822 VA	
LIGHTING	6166 VA	125.00%	7708 VA	**Total Conn. Load:** 434803 VA
RECEPT	25480 VA	69.62%	17740 VA	**Total Est. Demand:** 428604 VA
Miscellaneous Power	75334 VA	100.00%	75334 VA	**Total Conn.:** 523 A
				Total Est. Demand: 516 A

Notes:
1. COORDINATE BREAKER AMPERAGE WITH SPD MANUFACTURER. PROVIDE BREAKER AMPERAGE PER MANUFACTURER RECOMENDATIONS.

Branch Panel: L

Location: BLDG MECH-1 8-1
Supply From: L
Mounting: SURFACE, UNISTRUT
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 30,000
Mains Type: MCB
Mains Rating: 250 A
MCB Rating: 250 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
43	M MEMBER LOCKER HAND DRYER	20 A	1	1200	1997					2	25 A	HVAC: ECH-2	44
45	W MEMBER LOCKER HAND DRYER	20 A	1			1200	1997						46
47	RECEPT: MEMBER LOCKERS	20 A	1					720	1508	2	20 A	HVAC: UH-6	48
49	RECEPT: FAMILY RR/SH	20 A	1	360	1508								50
51	FAMILY RR/SH HAND DRYER	20 A	1			1200	528			1	15 A	HVAC: EF-2	52
53	FAMILY RR/SH HAND DRYER	20 A	1					1200	528	1	15 A	HVAC: EF-3	54
55	RECEPT: FAMILY RR	20 A	1	360	696					1	15 A	HVAC: EF-4	56
57	FAMILY RR HAND DRYER	20 A	1			1200	2496			2	30 A	GENERATOR BLOCK HEATER	58
59	FAMILY RR HAND DRYER	20 A	1					1200	2496				60
61	RECEPT: EDF	20 A	1	360	180					1	20 A	GENERATOR LTG/RCPT	62
63	RECEPT: N & W POOL SPACE	20 A	1			720	180			1	20 A	GENERATOR BATTERY CHARGER	64
65	RECEPT: N & E POOL SPACE	20 A	1					900	0	1	20 A	SPARE	66
67	RECEPT: FAMILY RR	20 A	1	180	0					1	20 A	SPARE	68
69	FAMILY RR HAND DRYER	20 A	1			1200	0			1	20 A	SPARE	70
71	RECEPT: EXTERIOR	20 A	1					720	0	1	20 A	SPARE	72
73	RECEPT: ROOF	20 A	1	900	0					1	20 A	SPARE	74
75	SPARE	20 A	1			0	0			1	20 A	SPARE	76
77	SPARE	20 A	1					0	0	1	20 A	SPARE	78
79	SPARE	20 A	1	0	0					1	20 A	SPARE	80
81	SPARE	20 A	1			0	0			1	20 A	SPARE	82
83	SPARE	20 A	1					0	0	1	20 A	SPARE	84
		Total Load:		7741 VA		10721 VA		9272 VA					
		Total Amps:		65 A		91 A		79 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	8762 VA	100.00%	8762 VA	
RECEPT	5220 VA	100.00%	5220 VA	**Total Conn. Load:** 27734 VA
Miscellaneous Power	13752 VA	100.00%	13752 VA	**Total Est. Demand:** 27734 VA
				Total Conn.: 77 A
				Total Est. Demand: 77 A

Notes:
DOUBLE TUB PANEL FIRST SECTION SCHEDULE IS ON PANEL SCHEDULE L WITH CIRCUIT NUMBERS 1-42.

Branch Panel: EL

Location: BLDG MECH-1 8-1
Supply From: EX
Mounting: SURFACE, UNISTRUT
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 30,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	#12 WATER LEVEL CONTROLLER	45 A	1	3900	0					1	20 A	SPARE	2
3	#17 POOL GAS HEATER CIRC PUMP	20 A	1			1176	0			1	20 A	SPARE	4
5	#18 FEATURE GAS HEATER CIRC PUMP	20 A	1					1176	0	1	20 A	SPARE	6
7	#21 FILTER AIR COMPRESSOR	50 A	1	2880	0					1	20 A	SPARE	8
9	RECEPT: #24 FILTER VACUUM UNIT	20 A	1			180	0			1	20 A	SPARE	10
11	#31 CHLORINE METERING PUMP	15 A	1					100	0	1	20 A	SPARE	12
13	#33 ACID METERING PUMP	15 A	1	100	0					1	20 A	SPARE	14
15	#34 CHEMICAL CONTROLLER	45 A	1			3900	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21													22
23													24
25													26
27													28
29													30
		Total Load:		6880 VA		5256 VA		1276 VA					
		Total Amps:		62 A		49 A		11 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
RECEPT	180 VA	100.00%	180 VA	
Miscellaneous Power	13232 VA	100.00%	13232 VA	**Total Conn. Load:** 13412 VA
				Total Est. Demand: 13412 VA
				Total Conn.: 37 A
				Total Est. Demand: 37 A

Notes:

Branch Panel: EH

Location: BLDG MECH-1 8-1
Supply From: ATS
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42,000
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				6880	3730								2
3	TRANSFORMER EX	45 A	3			5256	3730			3	35 A	#6 FEATURE PUMP	4
5								1276	3730				6
7				6213									8
9	#5 FILTER SYSTEM CIRCULATING PUMP (FCP)	60 A	3			6213							10
11								6213					12
13	#35 UV CONTROLLER	40 A	2	7680									14
15						7680							16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
		Total Load:		24503 VA		22879 VA		11219 VA					
		Total Amps:		95 A		89 A		41 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
RECEPT	180 VA	100.00%	180 VA	
Miscellaneous Power	58422 VA	100.00%	58422 VA	**Total Conn. Load:** 58602 VA
				Total Est. Demand: 58602 VA
				Total Conn.: 70 A
				Total Est. Demand: 70 A

Notes:

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

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KEY PLAN

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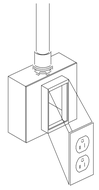
Aquatics Center

ELECTRICAL PANEL SCHEDULES

E500

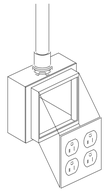
LIGHT FIXTURE SCHEDULE

UNIT ID	DESCRIPTION	DRIVER	VOLTS (V)	LIGHT			LOAD		MOUNTING	MOUNTING HEIGHT (AFF)	MANUFACTURER: MODEL NUMBER	EQUAL MANUFACTURERS
				COLOR (K)	QTY (LM)	UNITS	QTY (W)	UNITS				
A1	2-FOOT BY 4-FOOT FLAT PANEL, WHITE FINISH, DLC LISTED.	0-10V DIMMING TO 10%	277	3500	5037	/FIXTURE	39.3	/FIXTURE	RECESSED	CEILING	COLUMBIA LIGHTING: CBT24-LSCS	LITHONIA LIGHTING: CPX-2X4-4000LM-80CRI-35K-SWL-MIN10-ZT-MVOLT
D1	LENSED SHOWER RATED DOWNLIGHT, 6-INCH DIAMETER APERTURE, CLEAR SEMI-SPECULAR REFLECTOR, SELF FLANGED [VERIFY MUD IN FLANGE IS NOT REQUIRED], WET LOCATION LISTED, ENERGY STAR LISTED.	0-10V DIMMING TO 10%	277	3500	1684	/FIXTURE	19.5	/FIXTURE	RECESSED	CEILING	PRESCOLITE: LFR-4RD-M-20L35K8-WD-DM1-LFR4RDTSHWTAML-LFR-4RD-H	GOTHAM: EVO4SH-35/20-DFF-SMO-MVOLT-EZ10-NLT
D2	LENSED SHOWER RATED DOWNLIGHT, 2-INCH DIAMETER APERTURE, CLEAR SEMI-SPECULAR REFLECTOR, SELF FLANGED, WET LOCATION LISTED, ENERGY STAR LISTED.	0-10V DIMMING	277	3500	717	/FIXTURE	8.6	/FIXTURE	RECESSED	CEILING	ALPHEBET: [illegible]	GOTHAM: [illegible]
L1	LINEAR 2-INCH WIDE BY 8-FOOT LONG DIRECT, AIRCRAFT CABLE, FLUSH FROSTED ACRYLIC LENS, ANODIZED FINISH.	0-10V DIMMING TO 10%	277	3500	625	/FT	7.1	/FT	SUSPENDED	+96"	FINELITE: HP2-P-D-8-B-835-F-96LG-277-SC-FC-10%-FA50-C3-FE-SW	OR APPROVED EQUAL
P1	2-FOOT EXTRUUDED ALUMINIUM NATATORIUM FIXTURE WITH PRIMARY DISTRUBUTION INDIRCTLY AND SMALL DIRECT COMPONANT	0-10V DIMMING TO 10%	277	3500	64896	/FIXTURE	435	/FIXTURE	PENDANT MOUNT	17' AFF	LUX DYNAMICS: WAVEP-2-835-U10-WSA4-DEF4	OR APPROVED EQUAL. EQUALS TO PROVIDE PHOTOMETRIC CALCULATIONS FOR APPROVAL
P2	10-INCH NOMINAL DIAMETER CYLINDER, STEM MOUNTED, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD FINISHES, ENERGY STAR LISTED.	0-10V DIMMING TO 10%	277	3500	900	/FIXTURE	10	/FIXTURE	PENDANT MOUNT	+78"	LUMEN ART LIGHTING SOLUTIONS VMM-M-LED-277-3500K-M-WC-WH-0-10V	OR APPROVED EQUAL
S1	4-FOOT LENSED SHIELDED SURFACE MOUNTED LED FIXTURE, SURFACE MOUNTED, WHITE FINISH, WITH SEE SAFE CHANNEL, FROST SC LENS.	0-10V DIMMING TO 10%	277	3500	4065	/FIXTURE	34	/FIXTURE	SURFACE	N/A	COLUMBIA LIGHTING: CSL4-L48-4000LM-MVOLT-35K-80CRI-LSCS	LITHONIA LIGHTING: CSL4-L48-MVOLT-35K-80CRI
S2	4-FOOT VAPOR TIGHT LENSED STRIP, AIRCRAFT CABLE HUNG, POLYCARBONATE HOUSING, POLYCARBONATE LATCHES, GASKETED LENS SEAL, CURVED POLYCARBONATE LENS, DLC LISTED.	0-10V DIMMING TO 10%	277	3500	4065	/FIXTURE	34	/FIXTURE	SUSPENDED	+108"	COLUMBIA LIGHTING: LXEM4-40ML-RFA-EDU	LITHONIA LIGHTING: CSVT-L48-4000LM-MVOLT-40K-80CRI
T1	STEM MOUNTED AIMABLE LIGHT, NARROW DISTRIBUTION, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD FINISHES.	0-10V DIMMING TO 10%	277	3500	541	/FIXTURE	5	/FIXTURE	PENDANT	+96"	BRUCK LIGHTING: 137409-XTM19-35K-98-SAS4-UNV-10V-**-MP-L18	EUREKA 2064-LED.4-35-48-277V-DV-SR-36-RC-CHR-XXX-BLKA
X1	WHITE THERMOPLATIC EXIT SIGN, CLEAR FACE, RED LETTERING, IMPACT RESISTANT, SELF POWERED, SELF DIAGNOSTIC. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON PLANS.	ELECTRONIC	277				5	/FIXTURE	SURFACE	N/A	COMPASS: CER	LITHONIA: LQM-S-W-3-R-120/277-EL_N-SD
X2	NEMA 4X POLYCARBONATE SHEILDED EXIT SIGN, WHITE FACE,TAMPER RESISTANT, RED LETTERING, SELF POWERED, SELF DIAGNOSTIC. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON PLANS.	ELECTRONIC	277				5	/FIXTURE	SURFACE	N/A	DUALITE: SEWLSRWE	LITHONIA: LV-W-1-R-120/277-EL_N-SD-4X
X3	WHITE THERMOPLATIC EXIT SIGN, CLEAR FACE, RED LETTERING, IMPACT RESISTANT, SELF POWERED, SELF DIAGNOSTIC. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON PLANS.	ELECTRONIC	277				5	/FIXTURE	CEILING	N/A	COMPASS: CER	LITHONIA: LQM-S-W-3-R-120/277-EL_N-SD



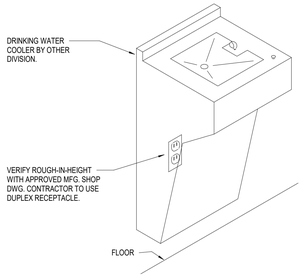
DUPLEX RECEPTACLE IN FLUSH MOUNTED 4" OR 4-11/16" SQUARE BOX WITH SINGLE-GANG PLASTER RING. MOUNT AT +20" AFF TO TOP.

10 TYPICAL FLUSH MOUNTED DUPLEX OUTLET
NOT TO SCALE

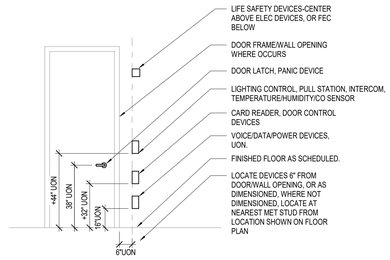


DOUBLE DUPLEX RECEPTACLE IN FLUSH MOUNTED 4" OR 4-11/16" SQUARE BOX WITH SINGLE-GANG PLASTER RING. MOUNT AT +20" AFF TO TOP.

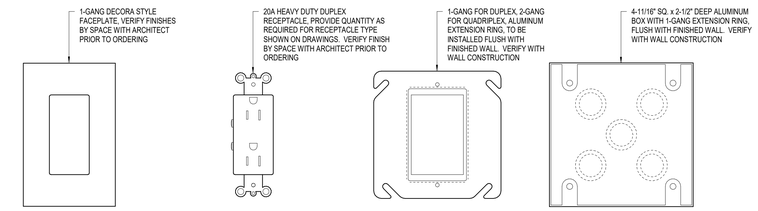
3 TYPICAL FLUSH MOUNTED DOUBLE DUPLEX
NOT TO SCALE

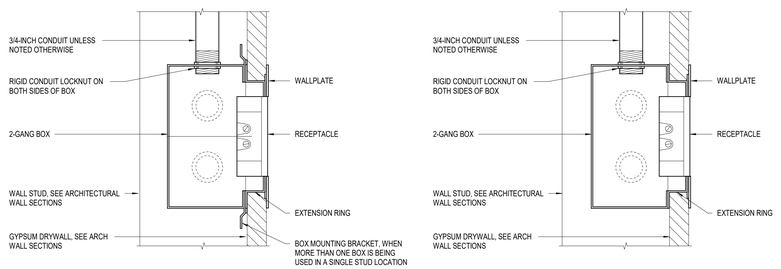


2 EWC WIRING
NOT TO SCALE

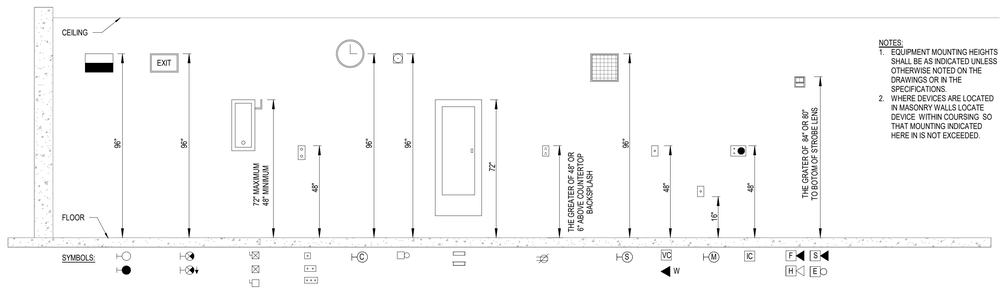


1 DEVICE MOUNTING ELEVATION
NOT TO SCALE

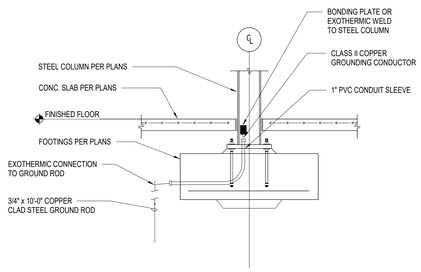




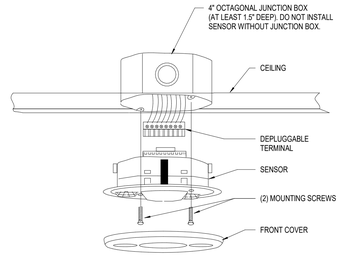
6 TYPICAL RECEPTACLE BOX ASSEMBLY
NOT TO SCALE



5 TYPICAL ELECTRICAL ELEVATION
NOT TO SCALE



8 COLUMN GROUNDING - SLEEVE
NOT TO SCALE



7 TYPICAL OCCUPANCY SENSOR MOUNTING DETAIL
NOT TO SCALE

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2021-178.RVI
Project Date 12.05.2022
Produced Designer Author

JOYCE ELLEN JONES REGISTERED No. PE60920263 STATE OF INDIANA PROFESSIONAL ENGINEER

#	Revision	Date
	Addendum #1	01/05/2023

5640 N Illinois St
Indianapolis, IN 46208

KEY PLAN

N

The Riviera Club

Aquatics Center

ELECTRICAL SCHEDULES AND DETAILS

E501

E501 - ELECTRICAL SCHEDULES AND DETAILS
2021-178.RVI_The Riviera Club_Aquatics Center_
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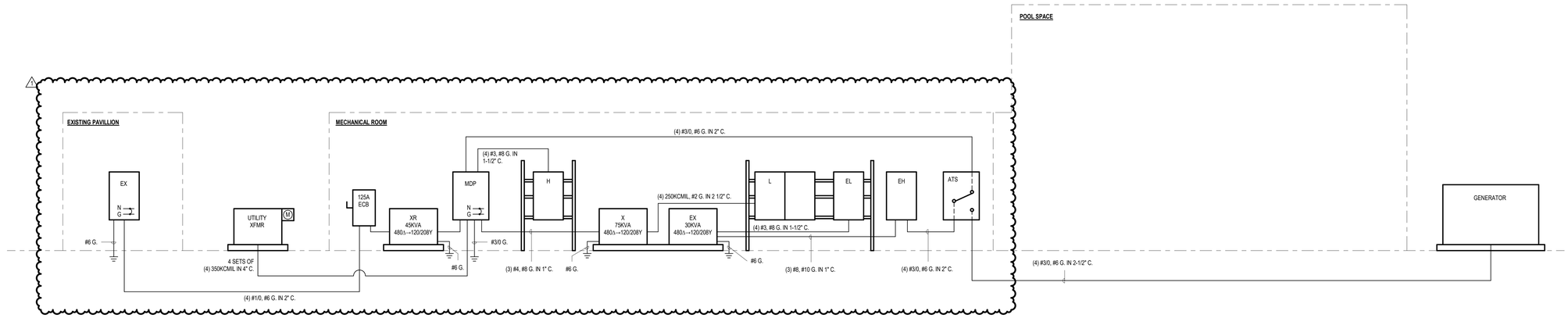
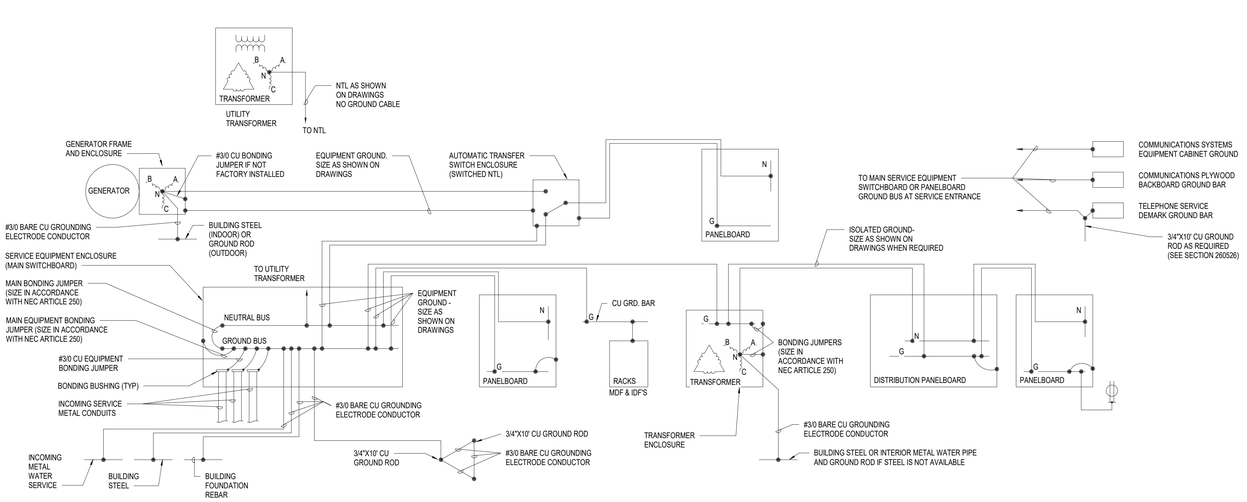
12/20/2022 2:08:16 PM



1 RISER DIAGRAM
NOT TO SCALE

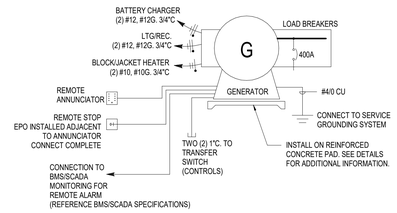


4 TYPICAL GROUNDING DETAIL
NOT TO SCALE

GENERATOR NOTES

MINIMUM RATED CAPACITY:	150 KW		
BASIS OF DESIGN:	MANUF: GENERAC	MODEL:	
RATED VOLTAGE:	480/277Y V	3-PHASE/ 4 WIRE	
ENCLOSURE RATING:	SEE SPECIFICATIONS	FUEL TYPE:	NATURAL GAS

SEE SPECIFICATIONS FOR ADDITIONAL FEATURES

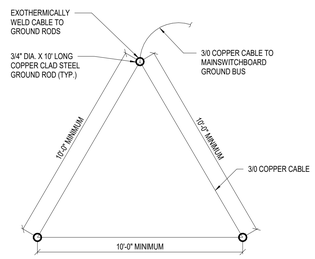


3 GENERATOR NOTES
NOT TO SCALE

TRANSFER SWITCH NOTES

TRANSFER SWITCH TYPE:	AUTOMATIC
CURRENT RATING:	200 A
VOLTAGE RATING:	480/277 V
# OF POLES:	THREE
NEUTRAL CONFIGURATION:	SWITCHED
SERVICE ENTRANCE RATED:	NO
MAIN CIRCUIT BREAKER:	NO
GROUND FAULT ON MAIN:	YES
BY-PASS/ISOLATION:	NO
REMOTE ANNUNCIATION:	NO
LOAD TYPE:	GENERAL PURPOSE ARTICLE 702

2 TRANSFER SWITCH NOTES
NOT TO SCALE



5 SERVICE GROUNDING ELECTRODE ARRANGEMENT
NOT TO SCALE

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ELECTRICAL DIAGRAMS

E901