

ADDENDUM NO. 3

Project: CITY OF GREAT FALLS INDOOR AQUATICS AND RECREATION CENTER
Project No.: 20-019
Date: OCTOBER 6, 2021
Bid Date: OCTOBER 13, 2021



NOTICE TO ALL PLANHOLDERS OF RECORD: Acknowledge receipt of this Addendum by inserting its number and date in the Bid Proposal. This addendum forms a part of the Contract Documents to the same extent as if bound and modifies the documents as follows:

A. GENERAL

ITEM NO. 1. Current Plan Holders list: See Attachment "A"

ITEM NO. 2. Bid Form (with new bid date): See Attachment "B". **CLARIFICATION:** Sum of Base Bid and all Add Alternates" has been added to the last page of the bid form, and bid date on the form has been changed to October 13th.

ITEM NO. 3. **CLARIFICATION:** 15 mil. vapor barrier required under slab in all areas of LVT, carpet, and ceramic tile floor installations.

ITEM NO. 4. **CLARIFICATION:** For the purposes of bidding it is acceptable to assume native soil materials described in the geotechnical report boring logs as "completely weathered CLAYSTONE" or "severely weathered SANDSTONE" are considered weathered bedrock. Note that actual excavation depths and materials shall be confirmed by the geotechnical engineer of record during construction.

ITEM NO. 5. **CLARIFICATION:** Mirafi 140N geotextile as shown in pool drawings is required.

ITEM NO. 6. **CLARIFICATION:** Contact for Military Training Equipment in Alternate #4: Maria C. Hanna, mhanna@survivalsystemsinc.com (860) 405-0002

B. ARCHITECTURAL SPECIFICATIONS

ITEM NO. 7. SECTION 08 33 30 **ADD:** Part 2.1.B.2.i. Size: 4'-0" wide x 4'-2" tall.

ITEM NO. 8. SECTION 09 51 23 **ADD:** Part 2.5.A.4. Closed Reveal Planks, Color: Medium Brown Cherry.

DRAWINGS

ITEM NO. 9. Details 2/A1.4, 1/A4.2, 3/A4.2, 1/A4.3, 1/A5.1, 5/A5.1, 5/A5.5, 6/A5.5, 9/A5.5, 3/A8.1, 16/A8.3 **CHANGE:** 5/8" Gyp. Sheathing to 7/16" Fire Retardant Treated (FRT) OSB Sheathing – See Structural.

ITEM NO. 10. Sheets A4.4 and A4.5: **CLARIFICATION:** Stairs to pit (and railings) in Pool Equipment Room are galvanized and not painted. All other stairs and railings are painted and not galvanized.

ITEM NO. 11. Detail 7/A4.5 stair treads **CHANGE:** to be similar to stair treads in Detail 10/A4.5.

ITEM NO. 12. Sheet A10.3 **ADD:** Interior Signage Schedule. See Attachment "C".

C. CIVIL

SPECIFICATIONS

N/A

DRAWINGS

N/A

**D. LANDSCAPING
SPECIFICATIONS**

N/A

DRAWINGS

N/A

**E. STRUCTURAL
SPECIFICATIONS**

N/A

DRAWINGS

N/A

**F. MECHANICAL/PLUMBING
SPECIFICATIONS**

ITEM NO. 13. **Sheet M0.1 – MECHANICAL SCHEDULES AND NOTES**

- Modified the basis of design for EF-5 and 6 to a belt driven fan with a corrosion resistant coating on the fan and housing.
- Added the following to the dehumidifier schedule:
 - PROVIDE 6"Ø SCH 80 PLASTIC PVC PIPING FROM POOL MECHANICAL ROOM TO DEHUMIDIFIERS DH-1 AND DH-2.
 - PROVIDE PENTAIR OR EQUIVALENT PUMP—LOCATED IN THE POOL MECHANICAL ROOM—CAPABLE OF SUPPLY 200 GPM AT 40 FT OF HEAD. PUMP TO HAVE INTEGRAL BASKET STRAINER AND BE PROVIDED WITH SHUTOFFS, UNIONS, AND CHECK VALVE. DEHUMIDIFIER CIRCUITS TO BE PROVIDED WITH SHUTOFFS AND UNIONS.
 - WATER-SOURCE CONDENSER TO BE INCORPORATED INTO DDC SYSTEM WITH THE SAME CONTROL SEQUENCE AS THE AIR-SOURCE CONDENSER.
 - COMPLETE DESIGN TO BE PROVIDED BY POOL CONSULTANT AT A LATER DATE IF ALTERNATE IS SELECTED.
- Added the following to the Energy Recovery Unit schedule:
 - PROVIDE 2"Ø SCH 80 PLASTIC PVC PIPING FROM POOL MECHANICAL ROOM TO ENERGY RECOVERY UNITS ERU-1 AND ERU-2.
 - PROVIDE PENTAIR OR EQUIVALENT PUMP—LOCATED IN THE POOL MECHANICAL ROOM—CAPABLE OF SUPPLY 20 GPM AT 25 FT OF HEAD. PUMP TO HAVE INTEGRAL BASKET STRAINER AND BE PROVIDED WITH SHUTOFFS, UNIONS, AND CHECK VALVE. ERU CIRCUITS TO BE PROVIDED WITH SHUTOFFS AND UNIONS.
 - WATER-SOURCE CONDENSER TO BE INCORPORATED INTO DDC SYSTEM WITH THE SAME CONTROL SEQUENCE AS THE AIR-SOURCE CONDENSER.

- COMPLETE DESIGN TO BE PROVIDED BY POOL CONSULTANT AT A LATER DATE IF ALTERNATE IS SELECTED.

DRAWINGS

N/A

G. ELECTRICAL/TELECOM SPECIFICATIONS

ITEM NO. 14. **CLARIFICATIONS:**

QUESTION 1:

I have the following question regarding specification section 281600 Intrusion Detection.

Section 2.5.F

Will a system printer be required?

ANSWER 1:

A system printer will not be required.

QUESTION 2:

Spec Section 26 05 29 Hangers and Supports for Electrical Systems – In terms of corrosion protection, can you better clarify what products you want in the different environments (pool, pool equipment, and chemical rooms). As an example, for unistrut in the pool areas for supporting light fixtures, can it be hot dipped, electro-galvanized (SC1 or SC3), or should it be something that the epoxy paint can best adhere to? Does the chemical room require PVC coated or fiberglass?

ANSWER 2:

Please provide FRP support structure in pool and pool equipment rooms.

DRAWINGS

ITEM NO. 15. **Sheet E1.0** – Electrical Site Plan

- Provide 2" C.O. from signage to pullbox for sign power.
- Route 1-1/4" C. from pull box to LCP to control backlit portion of sign.
- Route 1-1/4" C. from pull box to Panel L2A to power message board portion of the sign.
- Provide disconnects at sign location per NEC 600.6.

H. AQUATIC SPECIFICATIONS

N/A

DRAWINGS

N/A

I. **PRIOR APPROVALS**

All material or products supplied by the contractor must meet or exceed the quality and performance of the material or product originally specified. It is the contractor's responsibility to ensure that substituted equipment matches the exterior dimensions, weight, and configuration of the equipment that was specified.

ARCHITECTURAL

09 65 00 – Resilient Flooring and Accessories

- Rubber Flooring
 - DynaTuff SP

09 65 66 – Resilient Athletic Flooring

- Sheet Vinyl Athletic Flooring
 - DynaCourt 8mm

09 65 88 Polyurethane Floor System

- Materials
 - DynaForce 10 + 2

MECHANICAL/PLUMBING

The following Mechanical manufacturers have been approved:

<u>Related Section</u>	<u>Item</u>	<u>Manufacturer / Contractor</u>	<u>Notes</u>
230900	DDC System Installers	ATS Inland Northwest	-
232116	Hydronic Balancing Valves	NuTech	-
233300	Backdraft and Pressure Relief Dampers	Pottorff	-
233300	Manual Volume Dampers	Pottorff	-
233300	Control Dampers	Pottorff	-
233300	Fire Dampers	Pottorff	-
233300.	Duct Mounted Access Doors	Pottorff	-
233300	Louvers	Resideo	-
233346	Insulated Flexible Duct	Atco	-
233423	Inline Centrifugal Fans	Carnes Company	-
233600	Single Duct Air Terminal Units	Titus	-
233716	Fabric Air Distribution Devices	FabricAir	-
237200	Air to Air Energy Recovery Equipment	Carnes Company	-
236313	Air Cooled Refrigerant Condensers	PoolPak	Unit must meet the physical constraints outlined in the drawings
238231	Hydronic Heaters	Vulcan	-
238416	Indoor, Mechanical Dehumidification Unit	PoolPak	Unit must meet the physical constraints outlined in the drawings

The following Mechanical manufacturers have **NOT** been approved:

<u>Related Section</u>	<u>Item</u>	<u>Manufacturer / Contractor</u>	<u>Notes</u>
237313	Roof Mounted Air Handling Unit	Energy Labs	Unfamiliar manufacturer

ELECTRICAL/TELECOM

265110 – Lighting

General Note:

1. Luminaires with integral batteries and not required. All emergency lighting shall be provided via central inverter.
2. Lighting packages shall qualify under FAR Clause 52.225 – Buy American Act
 - Type C1/C1E
 - Insight Lighting in an approved manufacturer. Verify quantity and placement to ensure design criteria noted in Addendum 1 is met. Verify calculations are provided with luminaire at 25ft AFF. Please note ceiling height varies approx. 32'-42'.
 - Spec Grade Vanguard Luminaire is not approved.
 - Type C2E/C2E
 - Insight Lighting in an approved manufacturer. Verify quantity and placement to ensure design criteria noted in Addendum 1 is met. Verify calculations are provided with luminaire at 25ft AFF. Please note ceiling height varies approx. 32'-42'.
 - Spec Grade Vanguard Luminaire is not approved.
 - Alight in an approved manufacturer. Verify quantity and placement to ensure design criteria noted in Addendum 1 is met. Verify calculations are provided with luminaire at 25ft AFF. Please note ceiling height varies approx. 32'-42'.
 - Type E2
 - USAI luminaire Not Approved– verify luminaire is suitable for exterior surface mount. Optics must but narrow wall grazing effect for 30ft mounting height.
 - Insight Lighting in an approved manufacturer.
 - Type E4
 - DuraGuard is an approved manufacturer. Provide with louvered optic, no exposed polycarbonate lenses.
 - Visionaire is an approved manufacturer.
 - LSI is an approved manufacturer.
 - KIM is an approved manufacturer.
 - Gardco is an approved manufacturer.
 - Type E4E
 - Sigtex Inc is an approved manufacturer.
 - Exitronix is an approved manufacturer.
 - Type E5/E6/E7
 - NLS is an approved manufacturer if provided with capability to reduce output via time controls.
 - Visionaire is an approved manufacturer if provided with capability to reduce output via time controls.

- LSI is an approved manufacturer, provide luminaire with improved BUG rating to match or improve the BUG rating of specified fixture.
 - Hubbell is an approved manufacturer, Verify luminaire is provided with BUG rating to match or improve the BUG rating of specified fixture.
 - Gardco is an approved manufacturer.
 - Type E8
 - NLS is an approved manufacturer.
 - Hubbell is an approved manufacturer.
 - Type X1/X2/X3
 - Orion is an approved manufacturer.
 - Lighting Controls
 - NLight/sensor switch is an approved manufacturer.
- 27 15 13 – Communications Copper Horizontal Cabling
- Structured Cabling
 - OCC is an approved manufacturer

End of Addendum 3

Project: Indoor Aquatics and Recreation Center - O.F. 1770.0 10-6

9/29/2021

	A	B	C	D	E
1	Set #	Date Iss	Company Name	Address	Phone
2	1		GFBE		
3	2	8/24/21	Swank Enterprises	614 Pondera Avenue Valier, MT 59486	(406) 279-3241
4	3	8/27/21	Dick Anderson Construction	4610 Tri Hill Frontage Road Great Falls, MT 59404	406-761-8707
5	4	8/30/21	Sampson Construction	5825 S 14th St Lincoln, NE 68512	402-434-5420
6	5	9/2/21	Sletten Construction	P.O. Box 2467 Great Falls, MT 59403	(406) 761-7920
7	6	9/23/21	LPW/City of Great Falls		
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Project: Indoor Aquatics and Recreation Center - O.F. 1770.0 10-6

9/29/2021

	F	G	H
1	E-Mail	Contact	Add
2			
3	kforbes@swankenterprises.com	Kevin Forbes	
4	evenetz@daconstruction.com	Ed Venentz	
5	pat.clough@sampson-construction.com	Pat Clough	
6	mguelff@sletteninc.com	Mike Guelff	
7	lkunz@greatfallsmt.net	Lisa Kunz	
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SECTION 00 30 00

BID FORM

Bid Date: 3:00 p.m., local time, Wednesday, October 13, 2021.

As the Undersigned, I have familiarized myself with the conditions of the Work and Contract Documents prepared by **LPW, P.C., Great Falls, Montana**, and agreed to furnish all labor, material, equipment and services necessary to complete the **Great Falls Indoor Aquatics and Recreation Center, Great Falls, MT** in accordance with the Contract Documents, including all addenda.

I have received the Project Manual and Drawings, the latter consisting of _____ total sheets.

I have received Addenda Nos. _____ and have included their provisions in my Bid, agreeing to:

1. Hold my bid open for sixty (60) days after opening of Bid.
2. Accept the provisions of the Instructions to Bidders regarding disposition of my Bid Security, attached hereto.
3. Enter into and execute a Contract, if awarded on the basis of this Bid, and to furnish required Performance Bond, Labor-Material Payment Bond, and Insurance in specified amounts.
4. Accomplish the Work in accordance with the Contract Documents.

BASIC BID: The Undersigned agrees to complete all Work for the **bid lump sum** of

_____ Dollars
(\$ _____).

Add Alternate No. 1: State the amount to provide and install Water-Source Condenser in Dehumidifier DH-1 and DH-2 as shown on drawings.

Alternate No. 1 Sum of _____ Dollars
(\$ _____).

Add Alternate No. 2: State the amount to convert EF-5 to ERU-1 and EF-6 to ERU-2 (Exhaust Heat Recovery System) as shown on drawings.

Alternate No. 2 Sum of _____ Dollars
(\$ _____).

Add Alternate No. 3: State the amount to provide and install Outdoor Splash Pad as shown on drawings. Base bid to include plumbing stub-outs for future splash pad, and irrigated turf.

Alternate No. 3 Sum of _____ Dollars
(\$ _____).

Add Alternate No. 4: State the amount to provide and install Military Training Equipment including Wall Mount Parachute Dual Winch Drag Simulator and Personnel Rescue Hoist Model 750 Trolley with

**GREAT FALLS INDOOR AQUATICS AND RECREATION CENTER
GREAT FALLS, MONTANA**

Rotarwash/Searchlight as shown on drawings. Base bid to include all required structural connections for future equipment installation.

Alternate No. 4 Sum of _____ **Dollars**

(\$ _____).

Add Alternate No. 5: State the amount to provide and install gymnasium divider curtain in Gym 136 as shown on drawings. Base bid to include electrical circuit for future curtain.

Alternate No. 5 Sum of _____ **Dollars**

(\$ _____).

Add Alternate No. 6: State the amount to provide and install Sauna 125 complete, including Door 125 as shown on drawings. Base bid to include wall, ceiling, and flooring finishes similar to Locker Corridor 126.

Alternate No. 6 Sum of _____ **Dollars**

(\$ _____).

Add Alternate No. 7: State the amount to provide and install acoustical panels in gym and pool areas as shown on drawings.

Alternate No. 7 Sum of _____ **Dollars**

(\$ _____).

Add Alternate No. 8: State the amount to provide and install underwater sound system in Lap Pool 120P as shown on drawings.

Alternate No. 8 Sum of _____ **Dollars**

(\$ _____).

Add Alternate No. 9: State the amount to provide and install south parking lot drop-off parking as shown on drawings. Base bid to include irrigated turf.

Alternate No. 9 Sum of _____ **Dollars**

(\$ _____).

Add Alternate No. 10: State the amount to provide and install exterior playground equipment at Child Watch and exterior basketball hoop and striping on the north side of the building as shown on plans. Base bid to include irrigated turf.

Alternate No. 10 Sum of _____ **Dollars**

(\$ _____).

Add Alternate No. 11: State the amount to provide and install specialty paving, cast-in-place concrete benches, compacted gravel trail and landscape berms at Entry Plaza as shown on drawings. Base bid to include concrete slab and freestanding bench.

Alternate No. 11 Sum of _____ **Dollars**

(\$ _____).

**GREAT FALLS INDOOR AQUATICS AND RECREATION CENTER
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Add Alternate No. 12: State the amount to provide and install operable partition in Class/Party Room 114 as shown on plans.

Alternate No. 12 Sum of _____ **Dollars**

(\$ _____).

Add Alternate No. 13: State the amount to provide and install security cameras as shown on drawings. Base bid to include all conduit and rough-in for future cameras.

Alternate No. 13 Sum of _____ **Dollars**

(\$ _____).

Add Alternate No. 14: State the amount to provide and install portable bleachers as shown on drawings.

Alternate No. 14 Sum of _____ **Dollars**

(\$ _____).

Add Alternate No. 15: State the amount to provide and install flagpole, concrete pad, and associated lighting as shown on drawings. Base bid to include conduit to location of future flagpole and landscaping, per plans.

Alternate No. 15 Sum of _____ **Dollars**

(\$ _____).

Add Alternate No. 16: State the amount to provide and install monument sign and landscaping as shown on drawings. Base bid to include conduit to location of future monument sign.

Alternate No. 16 Sum of _____ **Dollars**

(\$ _____).

Add Alternate No. 17: State the amount to provide and install site conduit for future electric vehicle charging stations and conduit for future solar panels on roof.

Alternate No. 17 Sum of _____ **Dollars**

(\$ _____).

Add Alternate No. 18: State the amount to provide and install timing system and scoreboard for lap pool. Base bid to include conduit and rough-in for future score board.

Alternate No. 18 Sum of _____ **Dollars**

(\$ _____).

Add Alternate No. 19: State the amount to provide and install large flume slide in leisure pool as shown on drawings. Base bid to include all foundations and slide connection at pre-cast concrete walls for future installation, and all underground supply, suction, return piping, all slide piping penetrations, and slide suction outlets in the leisure pool. Slide piping to be installed and tested per specifications.

Alternate No. 19 Sum of _____ **Dollars**

(\$ _____).

**GREAT FALLS INDOOR AQUATICS AND RECREATION CENTER
GREAT FALLS, MONTANA**

Add Alternate No. 20: State the amount to provide and install frog slide in leisure pool as shown on drawings. Base bid to include all underground supply, suction, return piping, all slide piping penetrations, and slide suction outlets in the leisure pool. Slide piping to be installed and tested per specifications.
Alternate No. 20 Sum of _____ **Dollars**

(\$ _____).

Add Alternate No. 21: State the amount to provide and install all Covid-related mechanical upgrades as shown on mechanical drawings.
Alternate No. 21 Sum of _____ **Dollars**

(\$ _____).

Add Alternate No. 22: State the amount to provide and install all hallway cubbies in Corridor 127.
Alternate No. 22 Sum of _____ **Dollars**

(\$ _____).

Sum of Base Bid and All Add Alternates: _____ **Dollars**

(\$ _____).

Date: _____

(Corporate Seal)

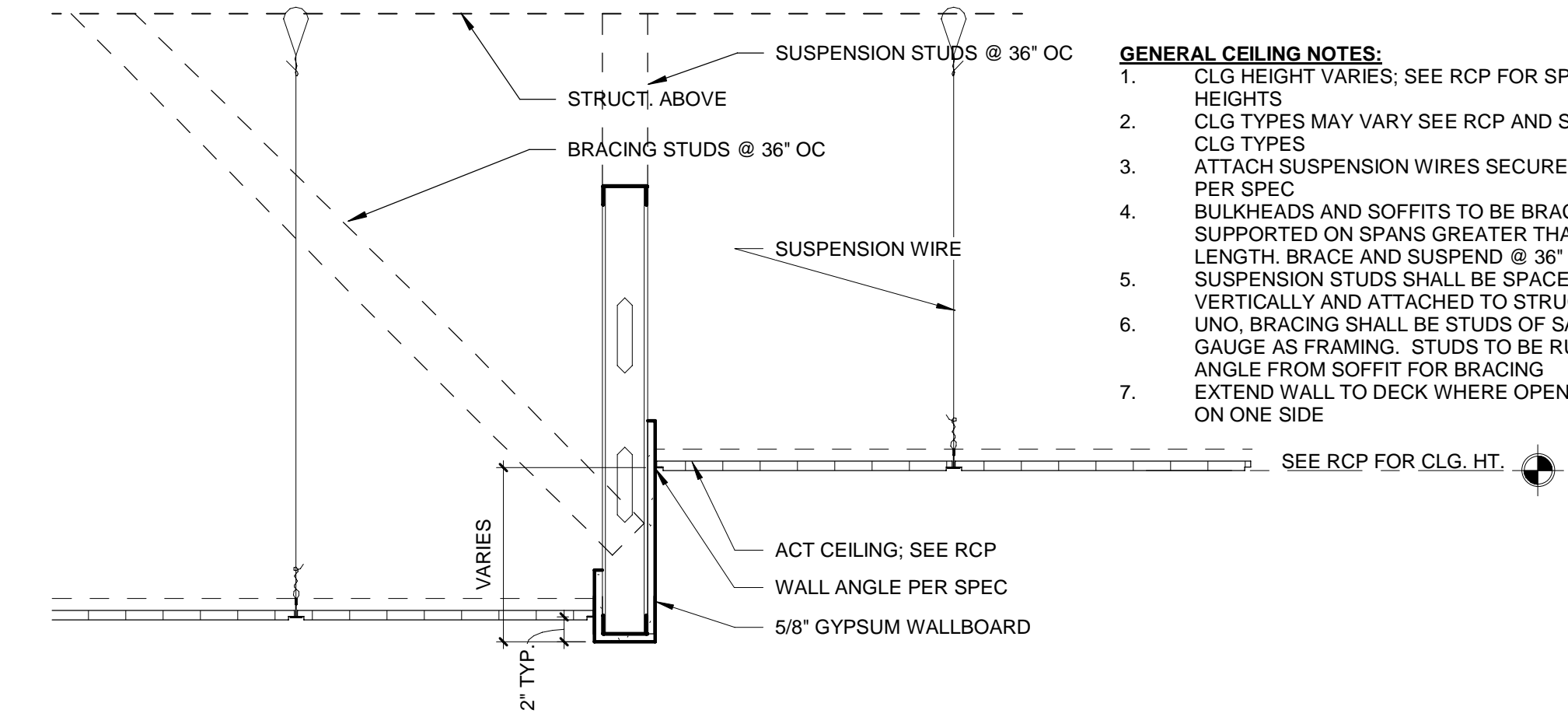
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Firm:

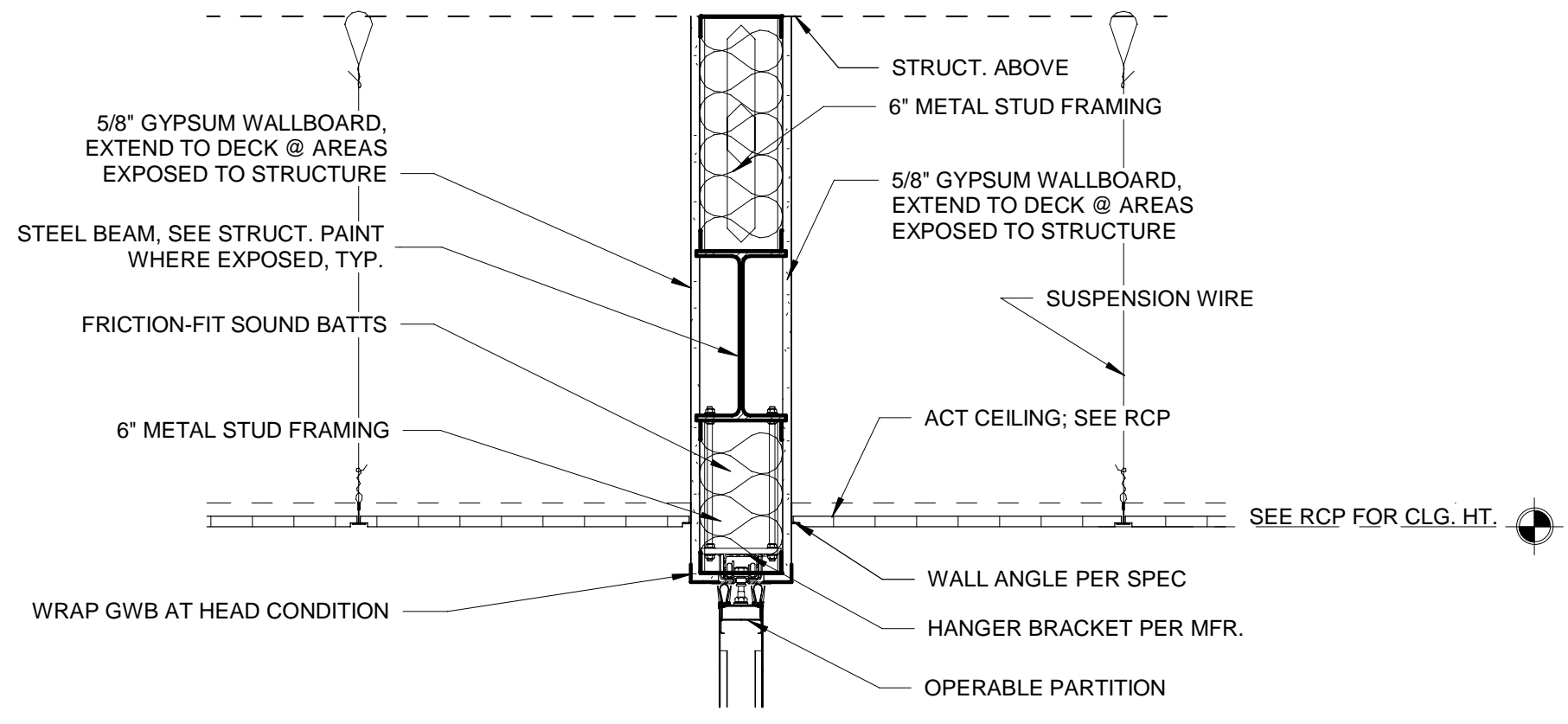
By:

Business Address:

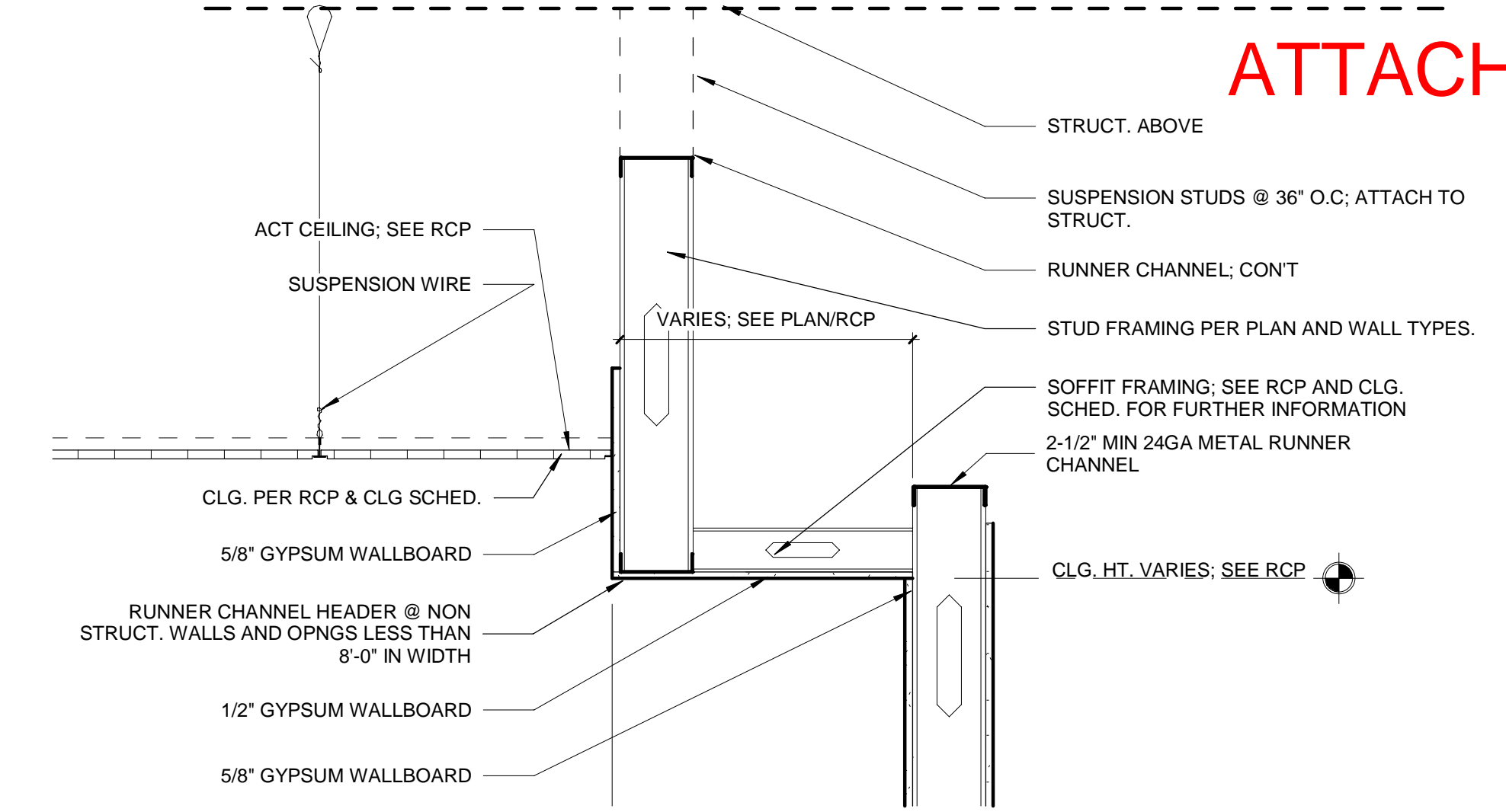
Contractor License No.:



1 TYP. BULKHEAD DTL
1" = 1'-0"

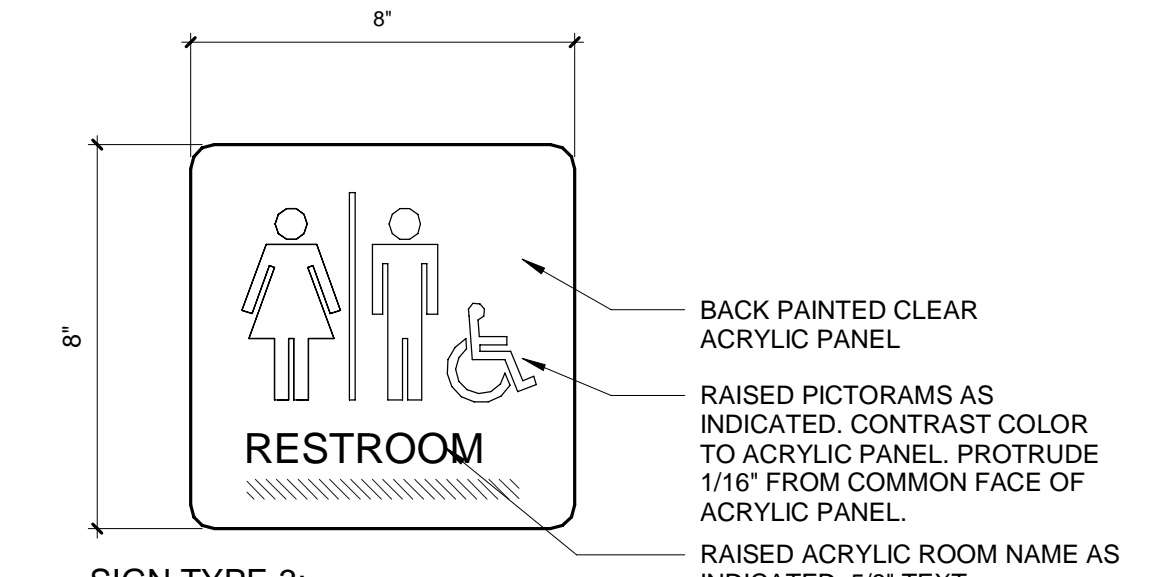
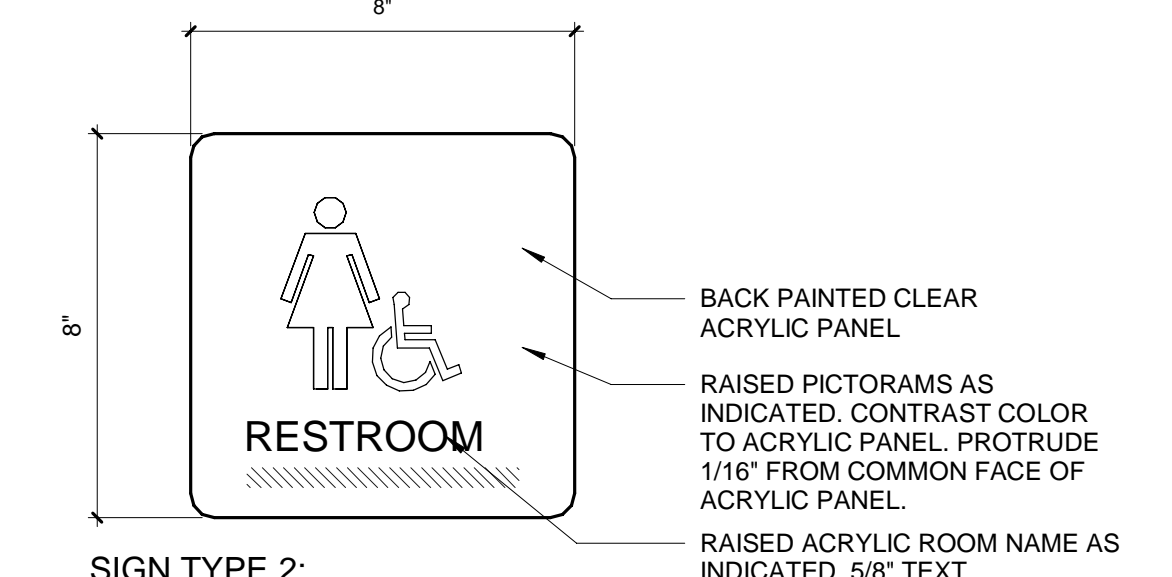
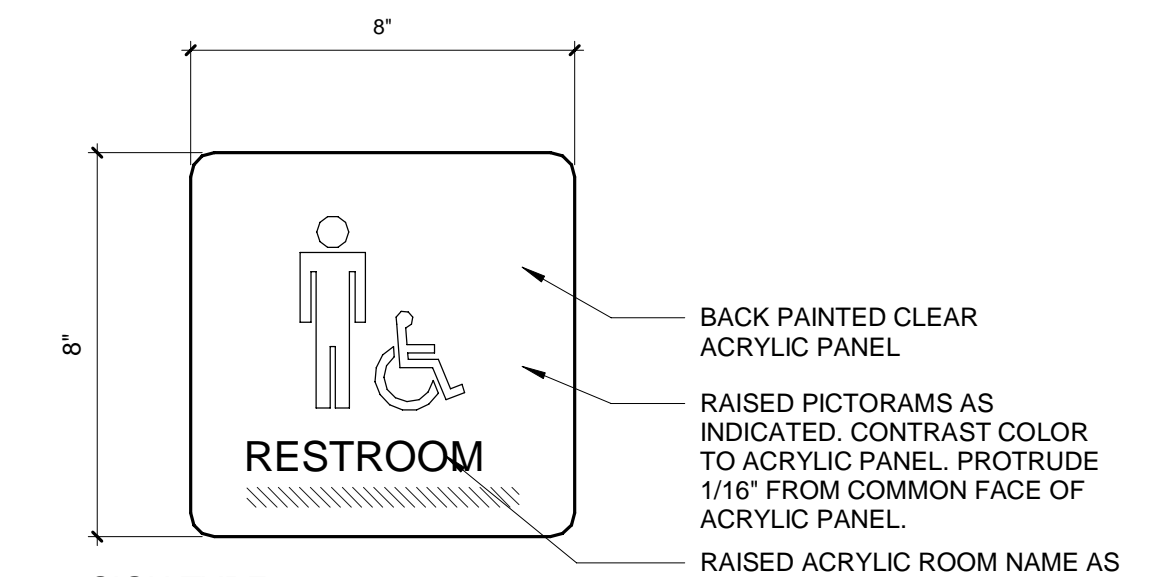


2 TYP. BULKHEAD DTL ABOVE OPERABLE PARTITION
1" = 1'-0"

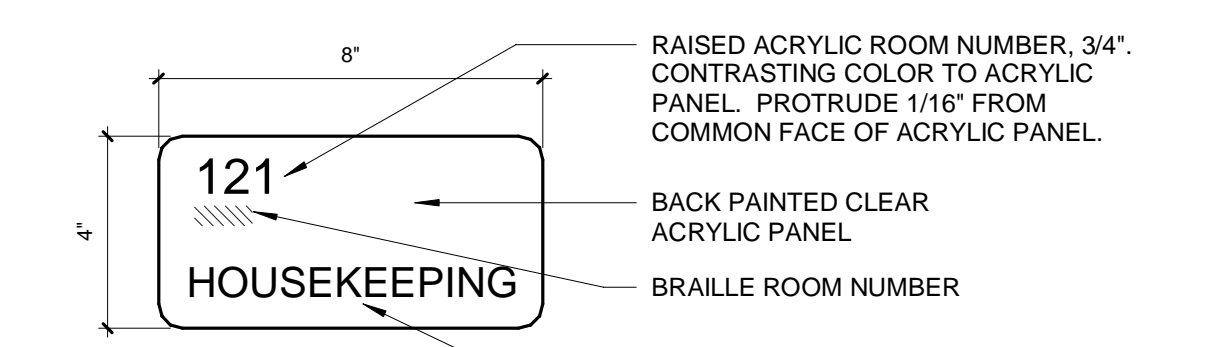


3 TYP. ALCOVE SOFFIT
1" = 1'-0"

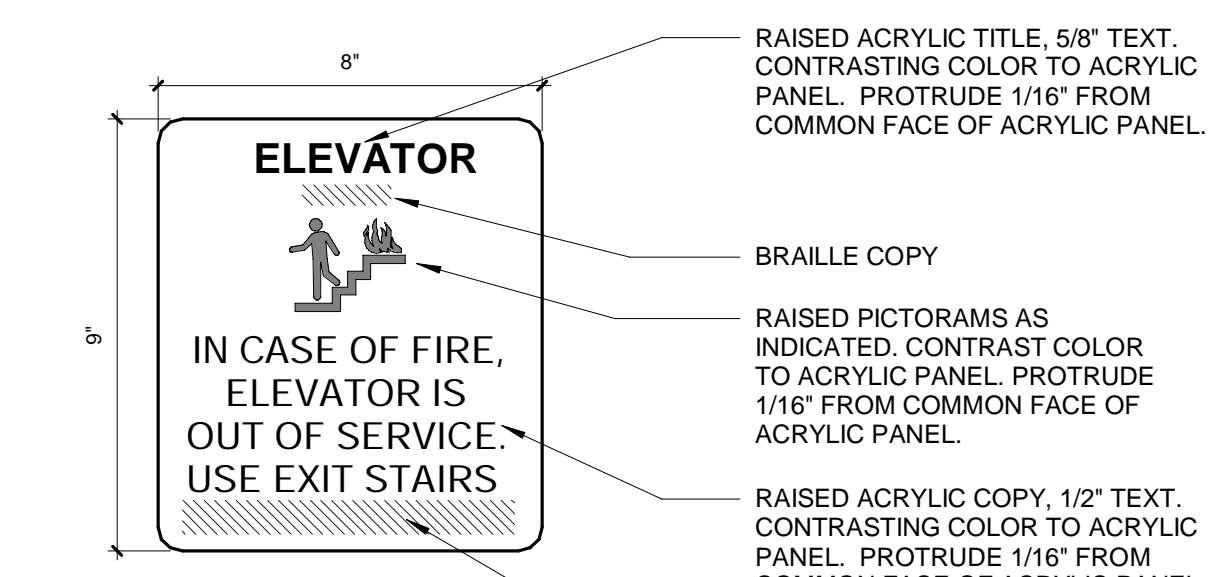
SIGNAGE SCHEDULE					
Number	Name	Sign Copy	Location	Sign Type	Occupancy
100S	STORAGE	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
103	MANAGER	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
104	CONCESSIONS	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
105	LAUNDRY/STORAGE	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
107	AQUATICS	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
108	REC SUPERVISOR	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
109	SPORT SUPERVISOR	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
110	CHILD WATCH	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
110R	RR	SEE SIGN TYPE ELEVATION	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	3	
110S	STORAGE	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
113P	REC POOL	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	233
114	CLASS/PARTY RM	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
115	ELEC	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
116	BOILER RM	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
117	POOL EQUIP 1	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
118	STORAGE	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
119	GUARD OFFICE	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
120P	LAP POOL	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	459
121	MULTIPURPOSE RM	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
121S	STORAGE	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
122C	MENS LOCKERS	SEE SIGN TYPE ELEVATION	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	1	
123	JAN	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
125	SALINA	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
128	FAMILY CHANGE-A	SEE SIGN TYPE ELEVATION	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	3	
129	ADA FAMILY CHANGE-B	SEE SIGN TYPE ELEVATION	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	3	
130	FAMILY CHANGE-C	SEE SIGN TYPE ELEVATION	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	3	
131	FAMILY CHANGE-D	SEE SIGN TYPE ELEVATION	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	3	
132	DATA	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
133	STORAGE	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
136	GYM	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	163
137	MANG STORAGE	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
138	MAFB STORAGE	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
141	WOMENS LOCKERS	SEE SIGN TYPE ELEVATION	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	2	
144	CHLORINE STG	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
145	CHEM STG	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
146	STORAGE	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
202	MECHANICAL	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
203	SOUTH RR	SEE SIGN TYPE ELEVATION	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	3	
204	NORTH RR	SEE SIGN TYPE ELEVATION	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	3	
205	STOR	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
206	MAINT	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	
210	ELEVATOR	SEE SIGN TYPE ELEVATION; VERIFY FINAL COPY WITH OWNER	WALL MT ADJACENT TO DOORWAY; VIF WITH ARCHITECT	4	



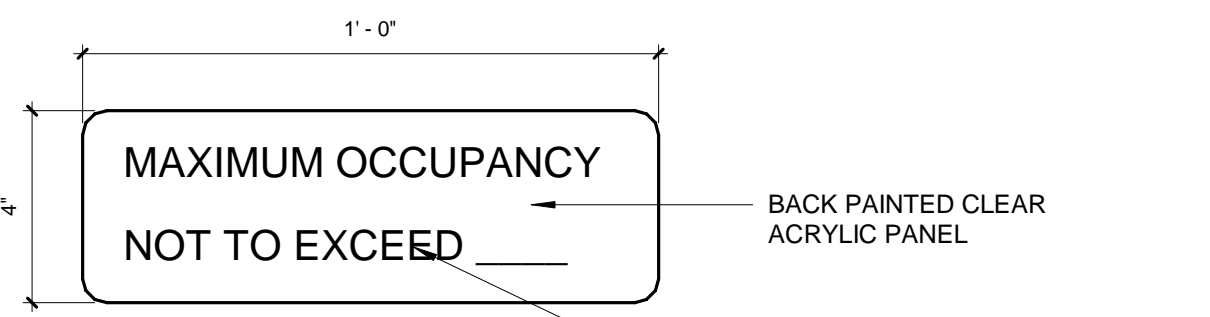
4 SIGNAGE DETAILS
3" = 1'-0"



SIGN TYPE 4:
ROOM NUMBER: FIXED
COPY: FIXED



SIGN TYPE 5:
ROOM NUMBER: N/A
COPY: FIXED
BRAILLE: AS INDICATED
PICTOGRAM: AS INDICATED



SIGN TYPE 6:
ROOM NUMBER: N/A
BRAILLE: N/A
COPY: FIXED

SIGNAGE: GENERAL REQUIREMENTS

- MFR: INPRO CORP., ASPEN COLLECTION
- FOR ROOMS ON SCHEDULE SHOWING OCCUPANCY NUMBER, PROVIDE SIGN TYPE 6
- PROVIDE (1) SIGN TYPE 5 FOR PLACEMENT ADJACENT TO 2ND FLOOR ELEVATOR DOOR
- MOUNT ALL SIGNAGE AT 60" AFF TO CENTERLINE OF SIGN
- COLORS AND FINISHES AS SELECTED BY OWNER, SUBMIT FOR SELECTION
- TEXT INDICATED ON SIGNS IS FOR EXAMPLE ONLY. SUBMIT SIGN SCHEDULE TO ARCHITECT ITEMIZED ON A PER ROOM, PER LOCATION BASIS, FOR CONFIRMATION OF FINAL LANGUAGE
- SIGNS SHALL BE PROVIDED WITH MYLAR INSERTS WHERE APPLICABLE, BEARING COPY VERIFIED WITH OWNER DURING SUBMITTALS. INCLUDE BOTH FIXED TEXT AND UPDATEABLE TEXT FIELDS ON SUBMITTAL SCHEDULES.
- SIGNS SHALL BE MOUNTED TO WALLS BY MEANS OF DOUBLE SIDED FOAM TAPE PER MFR INSTRUCTIONS

Revision Schedule		
No.	Revision	Date
1	Issued for I.S.	08/20/21

Submittals		
No.	Description	Date
1	100% S&S SUBMITTAL	08/01/21
2	PERMIT SET	08/06/21
3	PRO SET	08/20/21

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DESIGNED BY:	MB
CHECKED BY:	TMP
DATE:	08/19/21
PROJECT NUMBER:	20-019
SHEET NUMBER:	A10.3

ROOFTOP UNIT SCHEDULE

Table with columns: MARK, MANUF., MODEL, OUTLET CONFIG, SYSTEM TYPE, SUPPLY FAN, EXHAUST FAN, OUTSIDE AIR, HEATING COIL, COOLING COIL, PHYSICAL DATA. Includes rows for RTU-1, RTU-2, RTU-3.

ENERGY RECOVERY VENTILATOR UNIT SCHEDULE

Table with columns: MARK, MANUF., MODEL, TYPE, SUPPLY AIR, EXHAUST AIR, DESIGN CONDITIONS, HYDRONIC PRE-HEAT COIL, PHYSICAL DATA. Includes row for ERV-1.

DEHUMIDIFIER SCHEDULE

Table with columns: MARK, MANUF., MODEL, SUPPLY AIR CFM, FRESH AIR, OUTSIDE AIR, WATER TEMP, DRY BULB AIR TEMP, UNOCCUPIED RELATIVE HUMIDITY, OCCUPIED RELATIVE HUMIDITY, ESP (IN WC), DRIVE, AIRFLOW DATA, COOLING DATA, NET COMPRESSOR REHEAT CAPACITY, PHYSICAL DATA. Includes rows for DH-1, DH-2.

[ALTERNATE #1] COMMENTS: 1. CONFIGURATION TO BE HOT GAS REHEAT WITH COAXIAL WATER SOURCE HEAT EXCHANGER AND REMOTE AIR SOURCE CONDENSER... 2. PROVIDE PENTAIR OR EQUIVALENT PUMP... 3. WATER-SOURCE CONDENSER TO BE INCORPORATED INTO DDC SYSTEM... 4. COMPLETE DESIGN TO BE PROVIDED BY POOL CONSULTANT AT A LATER DATE IF ALTERNATE IS SELECTED.

CONDENSER SCHEDULE

Table with columns: MARK, MANUF., MODEL, NO. OF FANS, FAN LAYOUT, CAPACITY (BTU/HR), REFRIGERANT, SOUND DATA AT 10 FEET, MIN. AMBIENT OPERATING TEMPERATURE, LENGTH (IN), WIDTH (IN), HEIGHT (IN), WEIGHT (LBS). Includes rows for CND-1, CND-2.

EXHAUST FAN SCHEDULE

Table with columns: MARK, MANUF., MODEL, AIRFLOW (CFM), SONES, ESP (IN WC), DRIVE, TYPE, MOUNTING, CONTROL, WEIGHT (LBS). Includes rows for EF-1 through EF-6.

GRILLE, REGISTER AND DIFFUSER SCHEDULE

Table with columns: MARK, QTY, MANUF., MODEL, DESCRIPTION, NECK SIZE (6" / W X H"), FUNCTION, MAX AIRFLOW (CFM), N.C., PERFORMANCE DATA AT MAX CFM (PRESSURE DROP, THROW AT 50 FPM, VELOCITY), MOUNTING & FINISH (MOUNTING, MATERIAL, FINISH). Includes rows E-1 through S-11.

ELECTRIC HEATER SCHEDULE

Table with columns: MARK, MANUF., MODEL, VOLTAGE-PH, WATTAGE, FINISH, MOUNTING, PHYSICAL DATA (DEPTH, WIDTH, HEIGHT). Includes rows EH-1, EH-2, EH-3.

SOURCE CAPTURE EVACUATOR SCHEDULE

Table with columns: MARK, MANUF., MODEL, ASSOCIATED POOL, LOCATION, MATERIAL, LENGTH, DUCT CONNECTION (IN). Includes rows EVAC-1A through EVAC-2B.

ENERGY RECOVERY UNIT SCHEDULE [ALTERNATE #2]

Table with columns: MARK, MANUF., MODEL, AIRFLOW (CFM), ESP (IN WC), DRIVE, MOUNTING, PIPE CONNECTION SIZE (IN), WATER FLOW RATE (GPM), WPD (FT), TOTAL HEAT RECOVERED (BTU/HR), WEIGHT (LBS). Includes rows ERU-1, ERU-2.

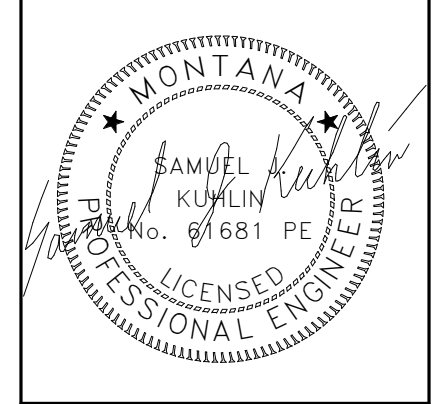
NATATORIUM GENERAL NOTES

A. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO SEAL ALL ITEMS THAT PENETRATE THE ENVELOPE OF THE NATATORIUM AND ENSURE THAT THE AIR AND VAPOR BARRIER IS MAINTAINED THROUGHOUT... B. A COMPLETE AIR SYSTEM TEST AND BALANCE (T&B) SHALL BE PERFORMED BY A NEBB OR AABC CERTIFIED T&B CONTRACTOR...

HVAC RELATED ALTERNATE BID ITEMS

- ALTERNATE #1: ADDITION OF WATER SOURCE CONDENSER IN DEHUMIDIFIER DH-1 AND DH-2 TO ALLOW HEAT FROM THE EXHAUST AIR STREAM TO BE RECOVERED AND TRANSFERRED BACK INTO THE POOL HEATING WATER... ALTERNATE #2: CONVERSION OF EF-5 TO ERU-1 AND EF-6 TO ERU-2 TO ALLOW THE WASTED HEAT IN THE EXHAUST AIR STREAM TO BE RECOVERED AND TRANSFERRED BACK INTO THE POOL HEATING WATER...

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Morrison Maierle logo and contact information: engineers - surveyors - planners - scientists, 172 Timberwolf Parkway | Kalspell, MT 59901, 406.5222216

Indoor Aquatics and Recreation Center Great Falls, Montana logo and contact information: MECHANICAL SCHEDULES & NOTES

MECHANICAL SCHEDULES & NOTES table with columns: NUMBER, SHEET NAME, REVISION SCHEDULE, SUBMITTALS, and DRAWING INFORMATION (DRAWN BY: SJK, CHECKED BY: TRC, DATE: 08/23/2021, PROJECT NUMBER: 4458.092, SHEET NUMBER: M0.1).