



**COLORADO**

**Parks and Wildlife**

Department of Natural Resources

**Rifle Falls SFU - Isolation Building  
PART 3 - CONSTRUCTION DRAWINGS**

PROJECT I.D. NO. SCA23A  
IFB1: 2025\*012

PRE-BID CONFERENCE: July 31, 2024 at 11:00 AM

BID OPENING: August 14, 2024 at 1:00 PM

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SCA23A

PART 3 - CONSTRUCTION DRAWINGS

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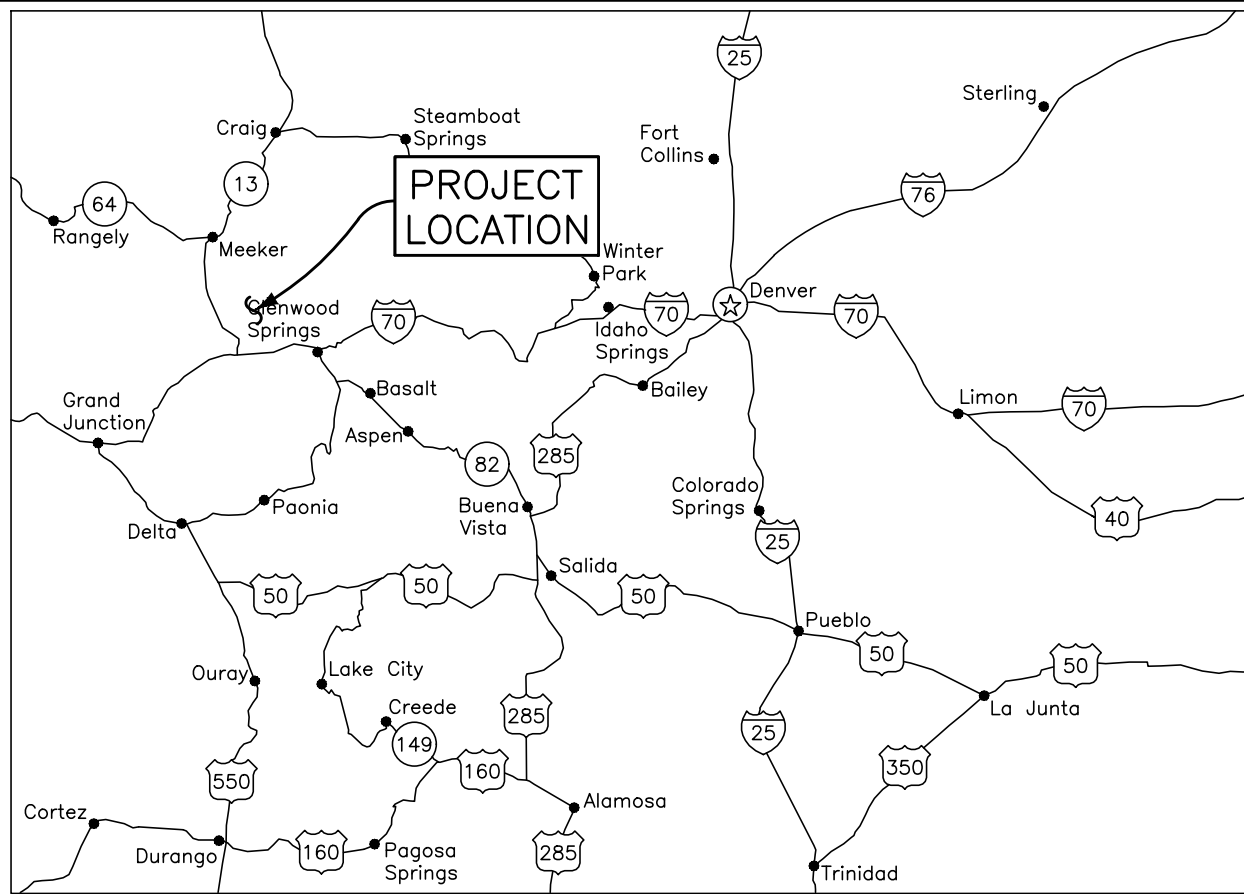
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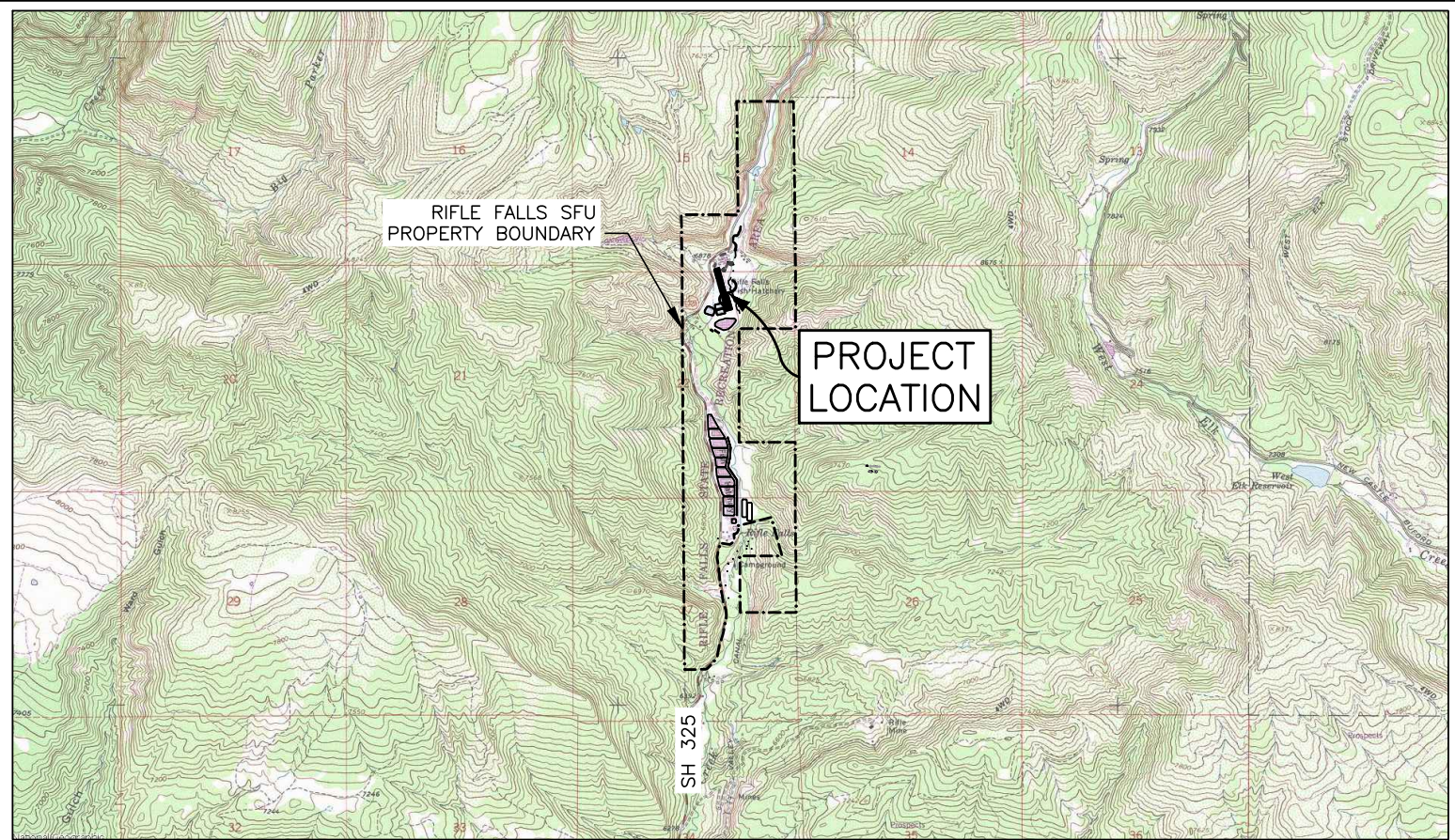
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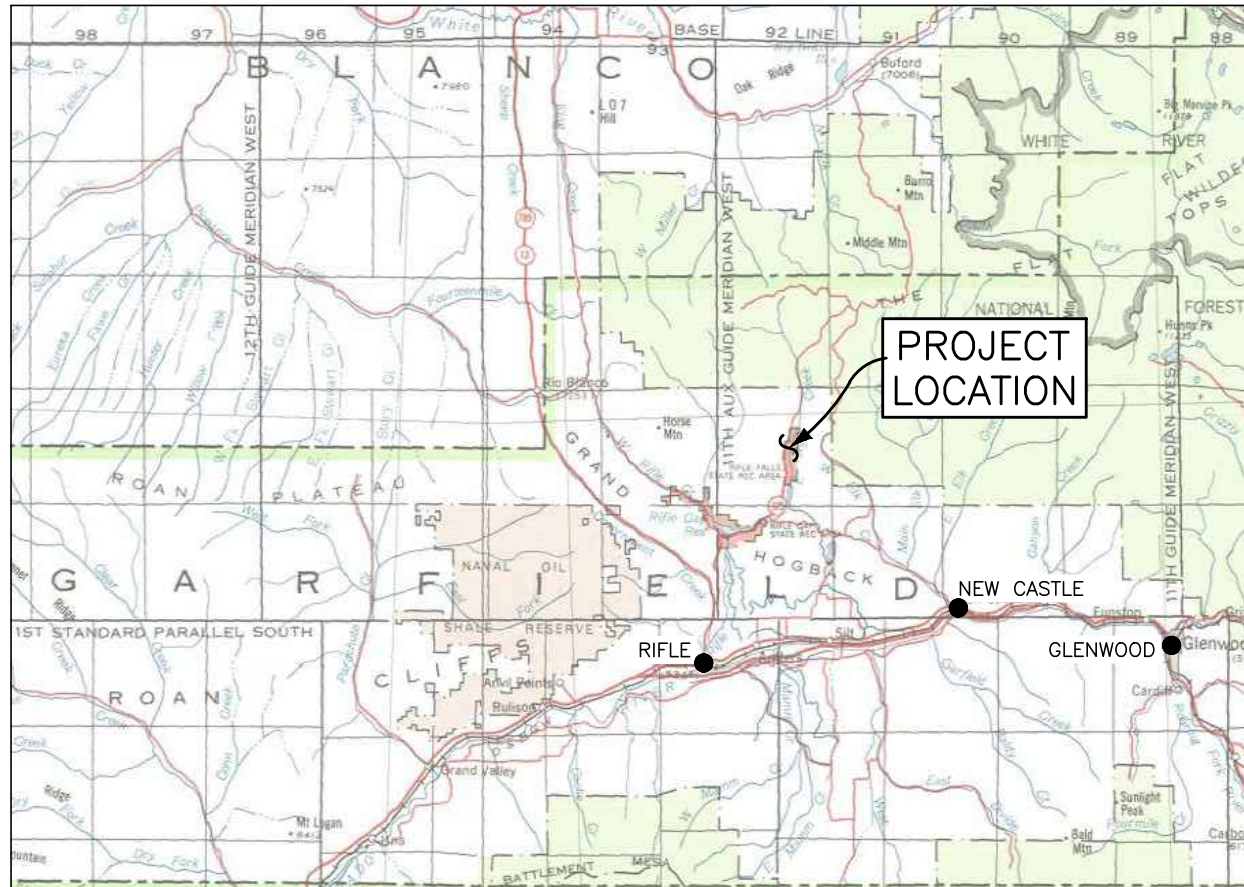
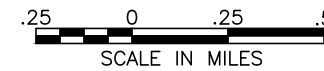
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STATE MAP



PROJECT LOCATION MAP



PROJECT VICINITY MAP



## RIFLE FALLS SFU ISOLATION BUILDING

PROJECT ADDRESS:  
11466 STATE HIGHWAY 325  
RIFLE, 81650  
GARFIELD COUNTY

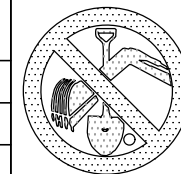
PROJECT COORDINATES:  
LATITUDE: 38°03'51"N  
LONGITUDE: 103°40'37"W

Sheet List Table	
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1	Cover Sheet
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DESIGN CODES (IBC, IPC, ETC)	DESIGN DEAD LOAD (PSF)	DESIGN LIVE LOAD (PSF)	ROOF SNOW LOAD (PSF) (NON-REDUCIBLE)	WIND DESIGN		SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP (°F)	ICE BARRIER UNDERLAYMENT REQUIRED
				SPEED (MPH)	TOPO. EFFECT		WEATHERING	FROST LINE DEPTH	TERMITE		
2015	10	20	40	115	-	B	SEVERE	36"	NONE	-2	YES

### PARKS & WILDLIFE PROJECT CONTACTS

HATCHERY MANAGER, JASON WENTZ	970-625-1865
PROJECT MANAGER, KENDAL BERGMAN	970-902-7946
DESIGN ENGINEER, JORDAN HASZ	303-291-7393



FOR BURIED UTILITY INFORMATION  
**CALL 811**  
**TWO BUSINESS DAYS BEFORE YOU DIG**  
UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) OR COMMON GROUND ALLIANCE (CGA)



RIFLE FALLS SFU

ISOLATION BUILDING

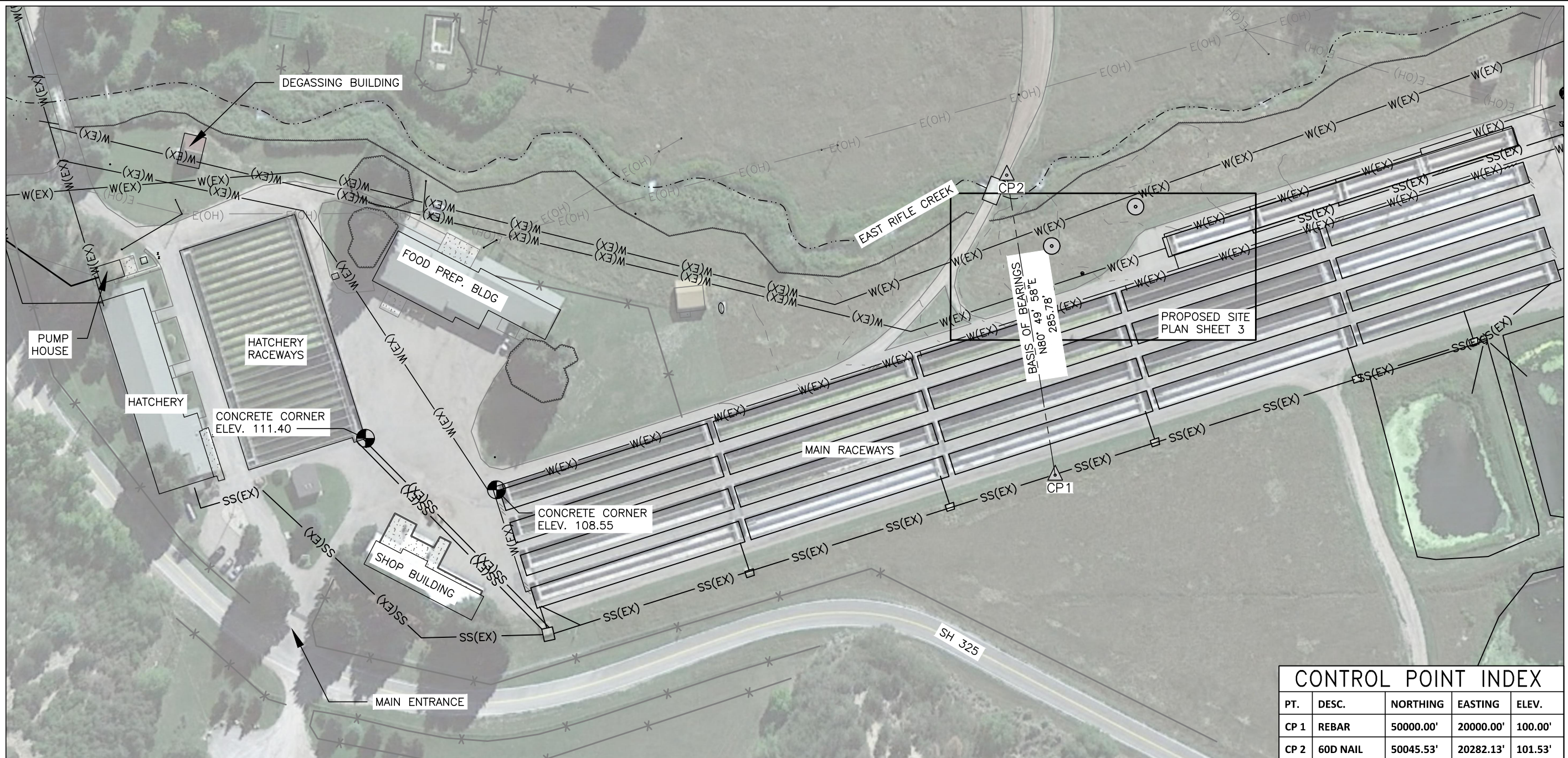
REVISIONS:	DATE	BY

DATE	PROJECT NO.	SHEET NO.
07/24	50023A	1

FINAL FOR BID

COVER SHEET

OF 11



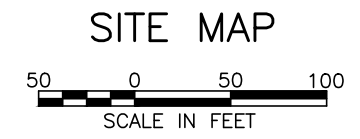
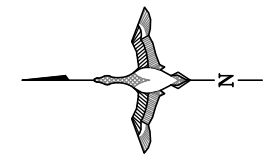
CONTROL POINT INDEX				
PT.	DESC.	NORTHING	EASTING	ELEV.
CP 1	REBAR	50000.00'	20000.00'	100.00'
CP 2	60D NAIL	50045.53'	20282.13'	101.53'

**GENERAL NOTES:**

1. ONLY SURFACE EVIDENCE OF UTILITIES VISIBLE AT THE TIME OF THE FIELD WORK IS SHOWN HEREON. ALL UNDERGROUND UTILITIES MUST BE FIELD LOCATED BY THE APPROPRIATE AGENCY OR UTILITY COMPANY PRIOR TO ANY EXCAVATION, PURSUANT TO C.R.S. SEC. 9-15-103
2. THE CONTOURS REPRESENTED HEREON WERE INTERPOLATED BY AUTOCAD CIVIL 3D (DIGITAL TERRAIN MODELING) RELEASE 2022 SOFTWARE BETWEEN ACTUAL MEASURED SPOT ELEVATIONS. DEPENDING ON THE DISTANCE FROM A MEASURED SPOT ELEVATION, THE CONTOUR SHOWN MAY NOT BE AN EXACT REPRESENTATION OF THE SITE TOPOGRAPHY. THE PURPOSE OF THIS TOPOGRAPHIC MAP IS FOR SITE EVALUATION AND TO SHOW SURFACE DRAINAGE FEATURES. ADDITIONAL TOPOGRAPHIC OBSERVATIONS MAY BE NECESSARY IN SPECIFIC AREAS OF DESIGN.
3. DIMENSIONS SHOWN HEREON ARE U.S. SURVEY FOOT.
4. DATE OF FIELDWORK: 8/30/2023

**LEGEND**

- EXISTING FENCE
- EXISTING WATER SUPPLY
- EXISTING EFFLUENT DRAIN
- EXISTING OVERHEAD ELECTRIC
- EXISTING EDGE OF VEGETATION
- EXISTING SURFACE CONTOUR
- APPROXIMATE TEST PIT LOCATION (SEE APPENDIX A)



RIFLE FALLS SFU  
ISOLATION BUILDING

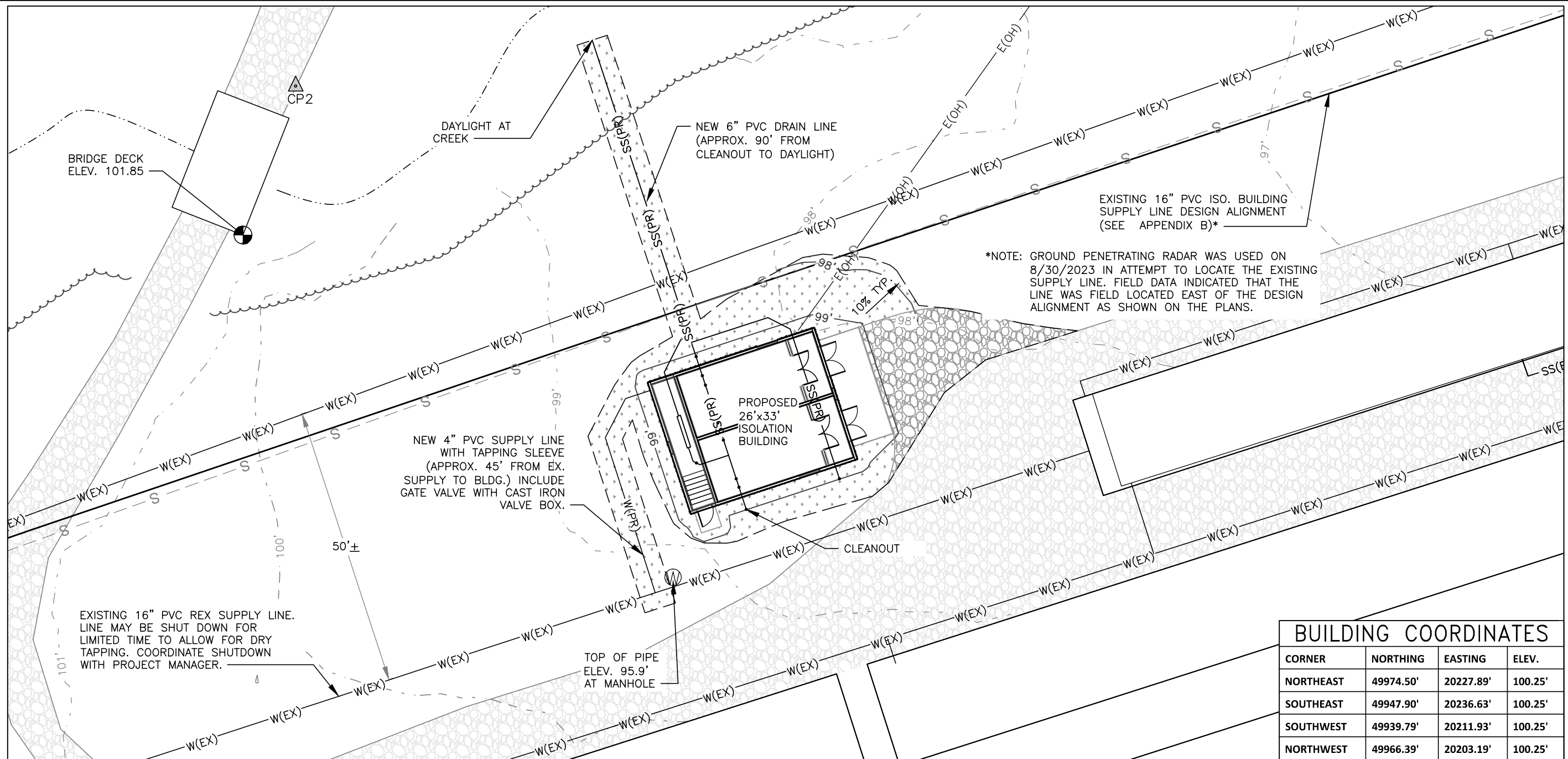


REVISIONS:	DATE	BY

DESIGNER:	JH
DRAFTER:	JH
CHECKED BY:	
APPROVED:	
CHIEF ENGR.:	

DATE:	07/24
PROJECT NO.:	2023A
SHEET NO.:	2
OF 11	

FINAL FOR BID  
SITE MAP



\*NOTE: GROUND PENETRATING RADAR WAS USED ON 8/30/2023 IN ATTEMPT TO LOCATE THE EXISTING SUPPLY LINE. FIELD DATA INDICATED THAT THE LINE WAS FIELD LOCATED EAST OF THE DESIGN ALIGNMENT AS SHOWN ON THE PLANS.

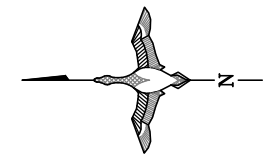
BUILDING COORDINATES			
CORNER	NORTHING	EASTING	ELEV.
NORTHEAST	49974.50'	20227.89'	100.25'
SOUTHEAST	49947.90'	20236.63'	100.25'
SOUTHWEST	49939.79'	20211.93'	100.25'
NORTHWEST	49966.39'	20203.19'	100.25'

**GENERAL NOTES:**

1. CONTRACTOR TO COORDINATE SERVICE EXTENSION WITH XCEL ENERGY. SERVICE EXTENSION WILL BE PAID AS AN ALLOWANCE IN ACCORDANCE WITH SECTION 01202.
2. THE BUILDING LOCATION MAY BE ADJUSTED ON SITE BY THE PROJECT MANAGER.
3. DISPOSE OF EXCESS SOIL IN A LOCATION APPROVED BY THE PROJECT MANAGER.
4. NO WORK SHALL BE BACKFILLED UNTIL THE CONSTRUCTION HAS BEEN INSPECTED AND APPROVED FOR BACKFILLING BY THE PROJECT MANAGER.
5. CONTRACTOR SHALL NOT IMPEDE PUBLIC ACCESS TO THE SITE OR NORMAL CPW OPERATIONS DURING CONSTRUCTION.
6. CONTRACTOR SHALL AT ALL TIMES COORDINATE HIS WORK WITH THE PROJECT MANAGER, WHEN IT IS NECESSARY TO CLOSE THE EXISTING PORTIONS OF THE WATER OR SEWER SYSTEM DUE TO CONSTRUCTION OPERATIONS, AT LEAST 48 HOURS PRIOR NOTIFICATION MUST BE GIVEN TO THE PROJECT MANAGER.
7. THE CONTRACTOR SHALL NOTIFY ALL PUBLIC UTILITY COMPANIES AND DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION. ALL WORK PERFORMED IN THE AREA OF PUBLIC UTILITIES SHALL BE PERFORMED ACCORDING TO THE REQUIREMENTS OF THESE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ANY EXISTING UTILITY (INCLUDING DEPTH), WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION, PRIOR TO COMMENCEMENT OF THE IMPROVEMENTS DESCRIBED IN THE PROJECT. THE CONTRACTOR SHALL PROTECT, AT HIS OWN EXPENSE, ALL EXISTING UTILITIES AND BE RESPONSIBLE FOR THEIR REPAIR IF THEY ARE DAMAGED DURING CONSTRUCTION.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT MANAGER OF ANY PROBLEM IN CONFORMING TO THE APPROVED PLANS OR ANY ELEMENT OF THE PROPOSED IMPROVEMENTS PRIOR TO CONSTRUCTION.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE PROJECT MANAGER AT LEAST 48 HOURS PRIOR TO START OR RESTART OF ANY CONSTRUCTION.

**LEGEND**


- W(EX) — EXISTING WATER SUPPLY
- SS(EX) — EXISTING EFFLUENT DRAIN
- E(OH) — EXISTING OVERHEAD ELECTRIC
- E(OH) — PROPOSED OVERHEAD ELECTRIC
- ~ ~ ~ EXISTING EDGE OF VEGETATION
- - - 100' - - EXISTING SURFACE CONTOUR
- - - 100' - - PROPOSED SURFACE CONTOUR
- - - - - LIMIT OF DISTURBED AREA (APPROX. 3050 S.F.)
- [Pattern] EXISTING GRAVEL DRIVE
- [Pattern] PROPOSED 6" COMPACTED ABC (APPROX. 460 S.F.)
- [Pattern] PERMANENT SEEDING & MULCHING (APPROX. 1530 S.F.)



**PROPOSED SITE PLAN**



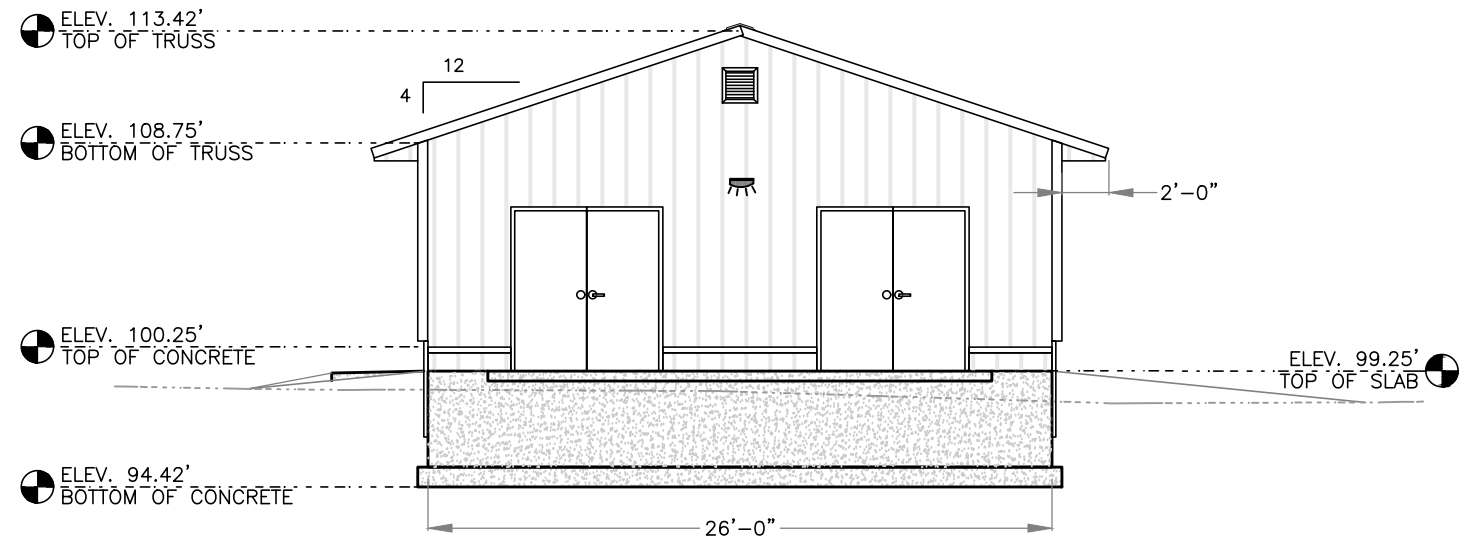
RIFLE FALLS SFU  
ISOLATION BUILDING



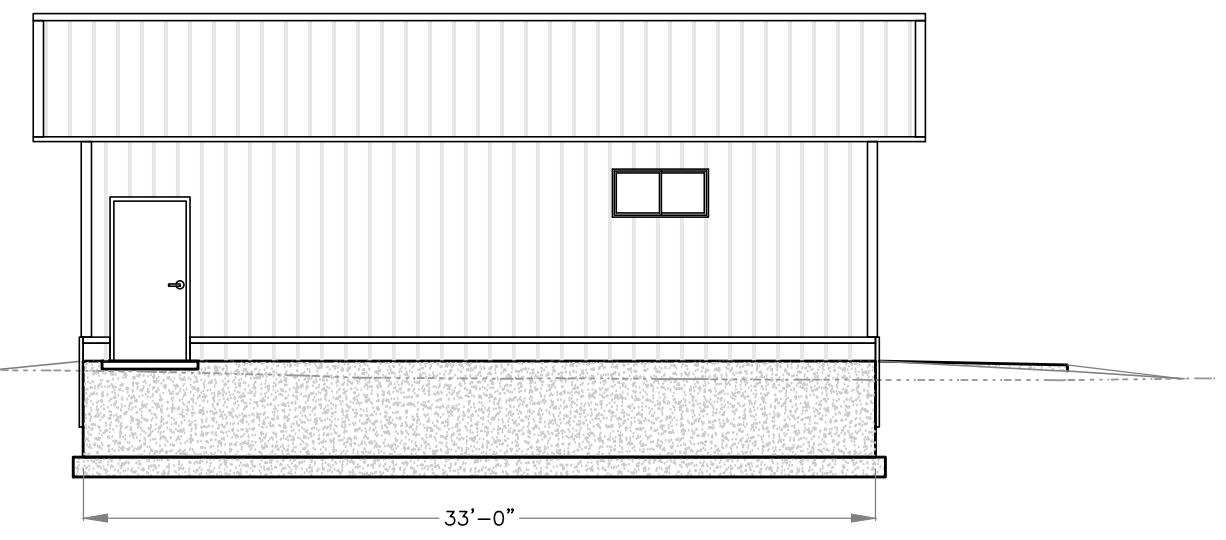
DESIGNER:	DRAFTER:	CHECKED BY:	APPROVED:	CHIEF ENGR.:
JH	JH			

DATE:	PROJECT NO.:	SHEET NO.:	OF 11
07/24	50423A	3	

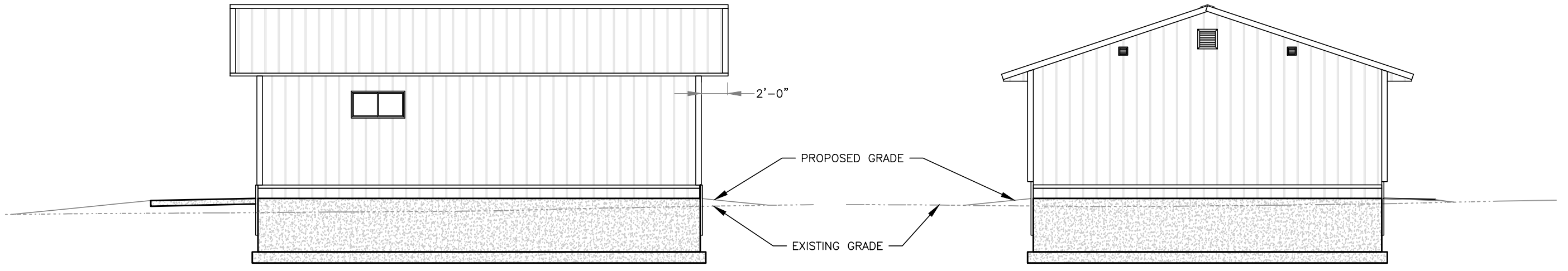
FINAL FOR BID  
PROPOSED SITE PLAN



SOUTH ELEVATION

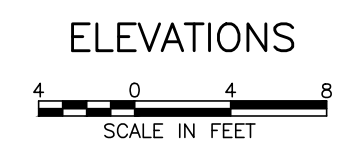


WEST ELEVATION



EAST ELEVATION

NORTH ELEVATION



RIFLE FALLS SFU  
ISOLATION BUILDING



DESIGNER:	JH
DRAFTER:	JH
CHECKED BY:	
APPROVED:	
CHIEF ENGR.:	
DATE:	07/24
PROJECT NO.:	50423A
SHEET NO.:	4
OF	11

REVISIONS:	
DATE:	
BY:	

FINAL FOR BID  
ELEVATIONS

**DOOR DATA**

**HARDWARE**

ID	Size (WxH)	TYPE	QTY	NO. REQ.	FRAME		HINGE	LATCH LOCK	MISC. HARDWARE
					MATERIAL	FINISH			
(A)	6'-0" x 6'-8"	TYPE I	2	2	HOLLOW METAL	PAINT	1	F82	1,3
(B)	6'-0" x 6'-8"	TYPE I	2	2	HOLLOW METAL	PAINT	1	F82	1,2,3
(C)	3'-0" x 6'-8"	TYPE I	1	1	HOLLOW METAL	PAINT	1	F82	1

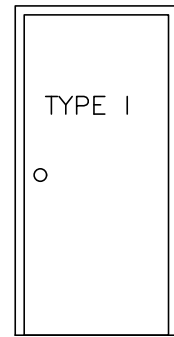
**BUTT HINGES**  
1 - HEAVY STAINLESS STEEL SPRING HINGE

**LOCKSETS**  
DESIGNATIONS INDICATED ARE ANSI A156.2 FUNCTIONS BEST ACCESS SYSTEM 9K SERIES (OR EQUIVALENT).

F82 - ENTRANCE LOCK, KEY OUTSIDE, BUTTON ON FACE OF LOCK

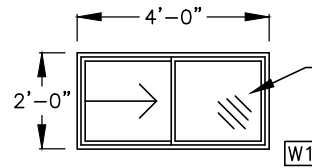
**MISCELLANEOUS HARDWARE**

- GENERAL - DOOR SILENCERS: GLYNN-JOHNSON SR64 (OR EQUIVALENT)  
DOOR SILENCERS FOR ALL HOLLOW METAL FRAMES, 3 PER STRIKE JAMB FOR SINGLE DOORS, 2 PER HEAD FOR PAIRS OF DOORS
- 1 - WEATHERSTRIPPING: PEMKO 303AS (OR EQUIVALENT) AT HEAD AND JAMBS, PEMKO 18100CNB (OR EQUIVALENT) SWEEPS AT SILL, PEMKO 176A THRESHOLD AND PEMKO 346C RAIN DRIP AT EXTERIOR DOORS.
  - 2 - WALL STOPS: BALDWIN 4273.264 (OR EQUIVALENT) CONCAVE BUMPER, SATIN CHROME FINISH CONCEALED MOUNTING AND ATTACHMENT
  - 3 - FLUSH BOLTS: QUALITY HARDWARE CO. MPN:1357 (OR EQUIVALENT) EXTENSION BOLT AT HEAD AND SILL AND MPN:1225 (OR EQUIVALENT) DUSTPROOF STRIKE AT FLOOR, INSTALL ON INACTIVE LEAF.



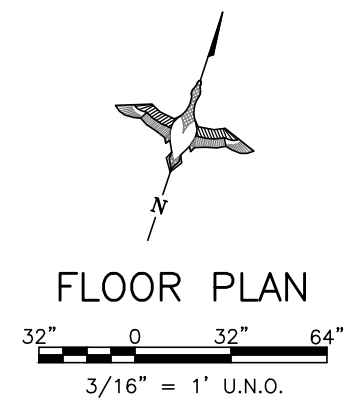
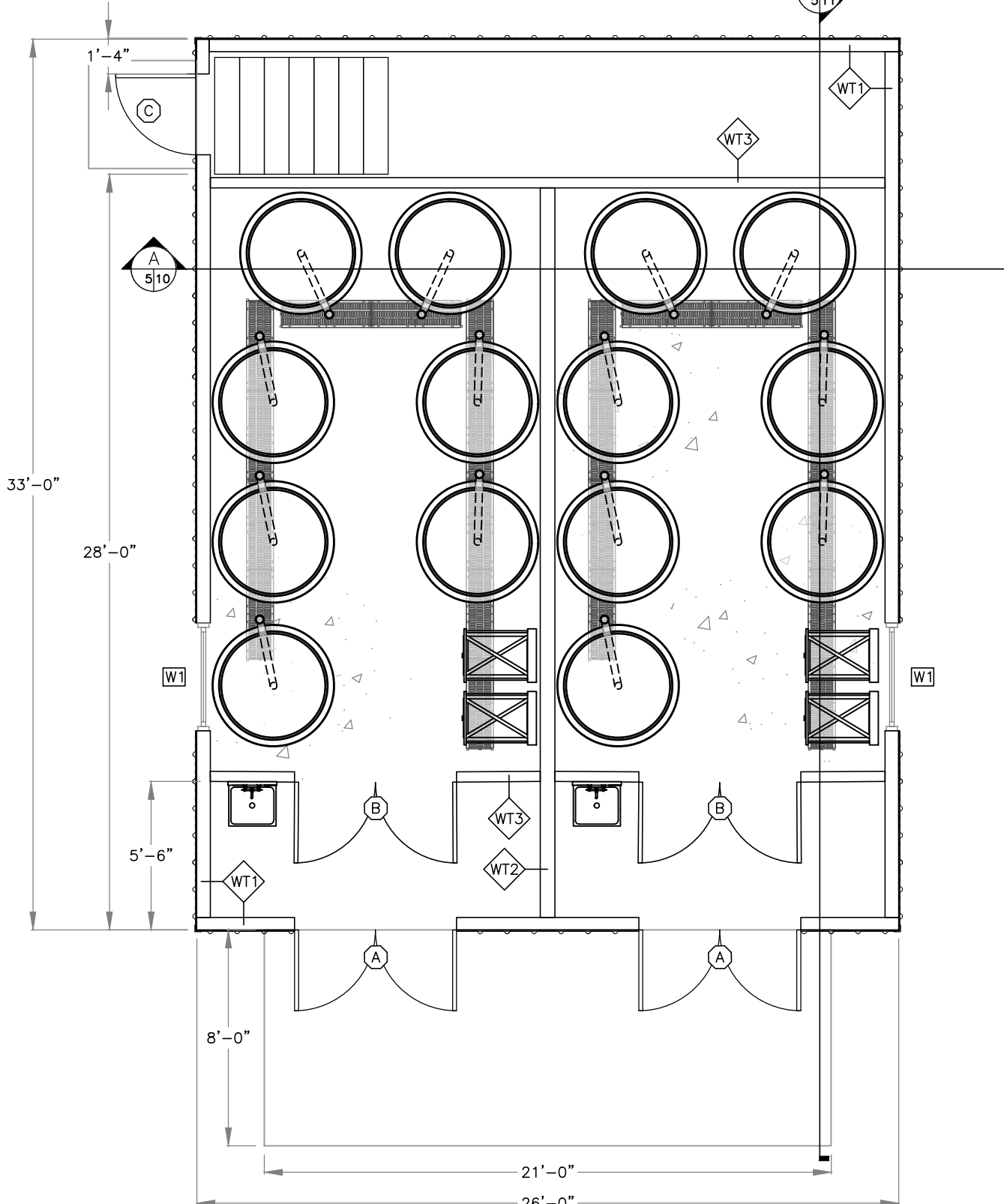
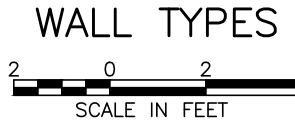
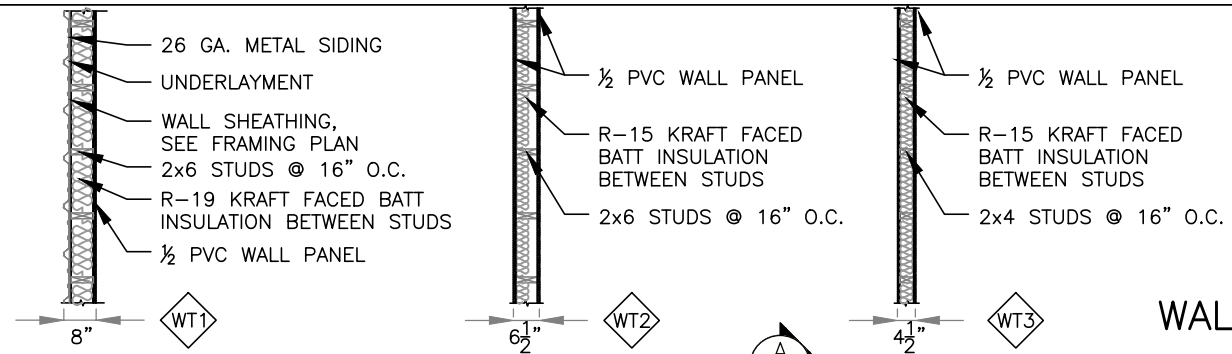
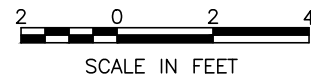
HOLLOW METAL W/  
INSULATED CORE

**DOOR TYPES**



VINYL WINDOW  
WITH SCREEN

**WINDOW TYPES**

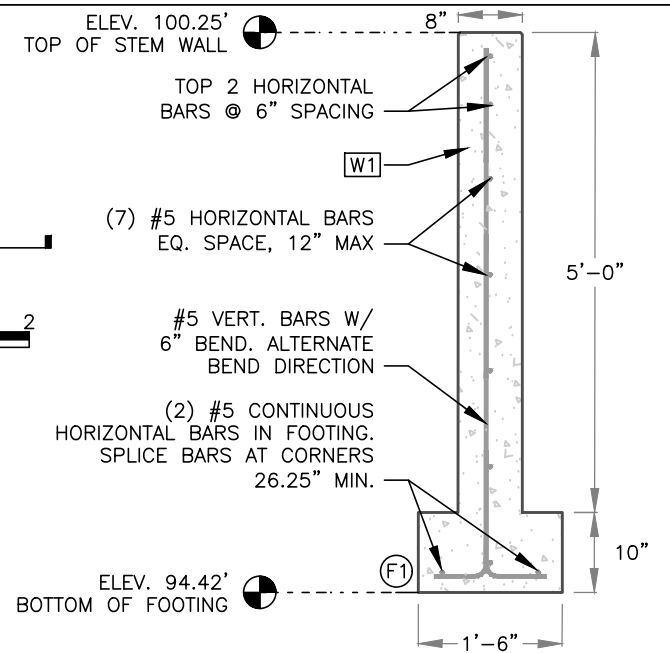
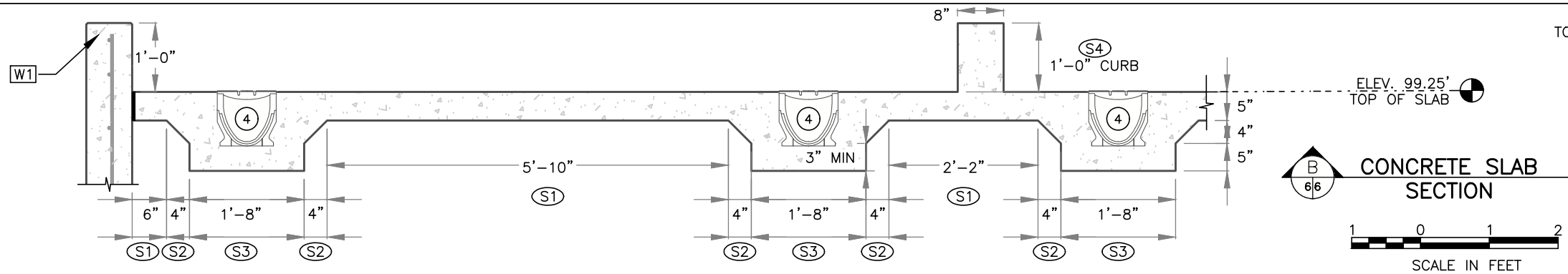


RIFLE FALLS SFU  
ISOLATION BUILDING

DESIGNER:	JH	DATE:	
DRAFTER:	JH	REVISIONS:	
CHECKED BY:		05/24	05/24
APPROVED:			
CHIEF ENGR.:			

DATE:	PROJECT NO.:	SHEET NO.:	OF 11
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FINAL FOR BID  
FLOOR PLAN



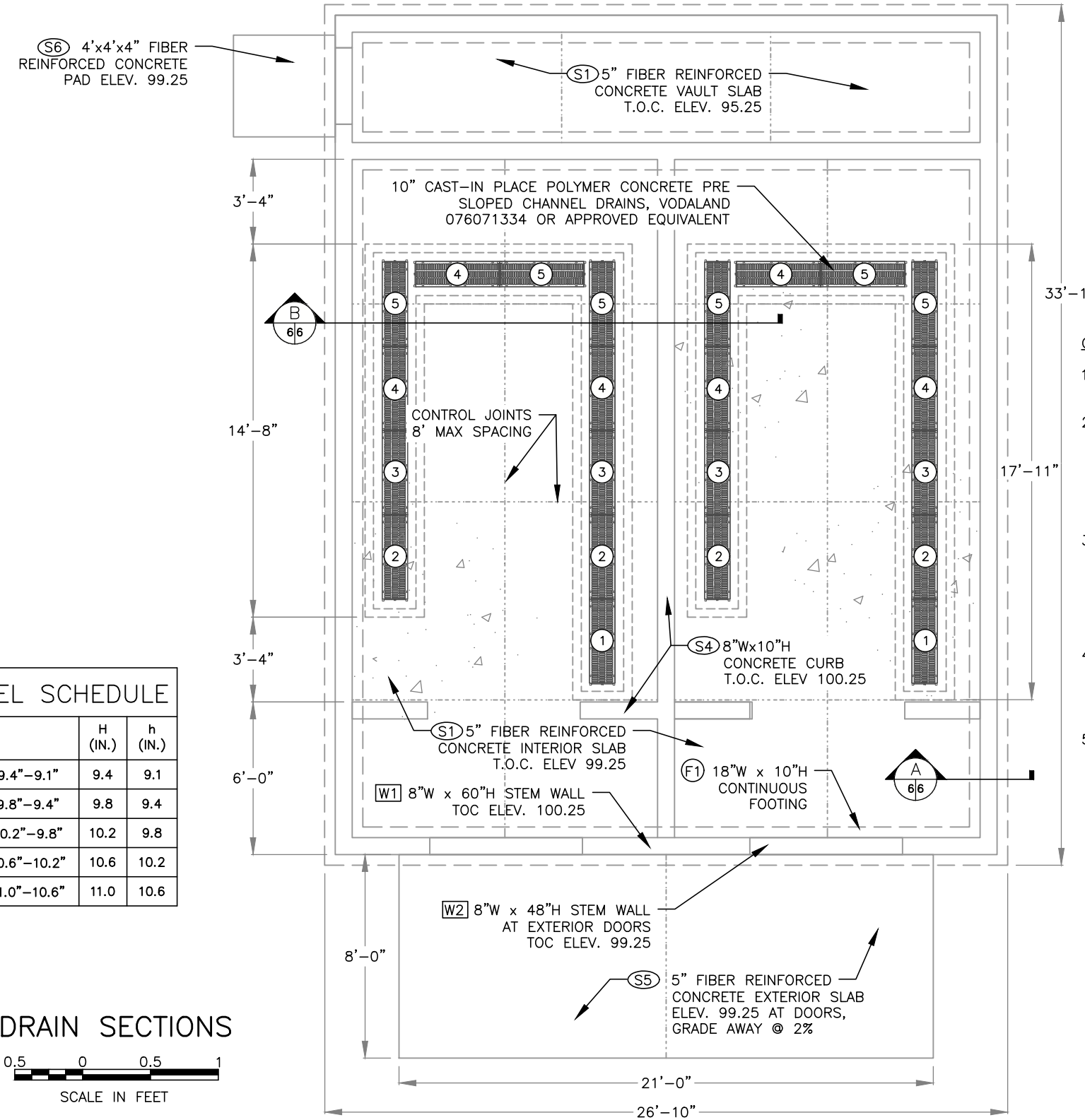
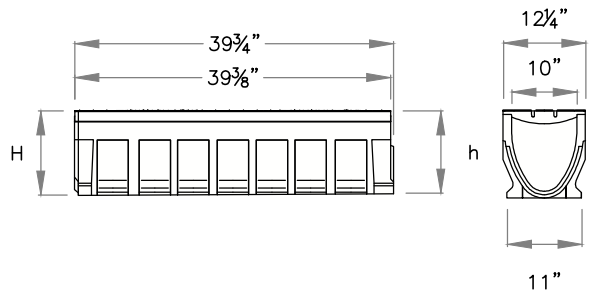
FOOTING SCHEDULE				
ID	SIZE (W x H x L)	HORIZONTAL REINFORCING	VERTICAL REINFORCING	VOL (CY)
(F1)	1'-6" x 10" x 139'-2"	(2)#5 CONTINUOUS	#5 HOOKED @ 12" O.C.	6.44

STEM WALL SCHEDULE				
ID	SIZE (W x H x L)	HORIZONTAL REINFORCING	VERTICAL REINFORCING	VOL (CY)
(W1)	0'-8" x 5'-0" x 125'-0"	#5 @ 12" O.C. MAX.	#5 HOOKED @ 12" O.C.	15.43
(W2)	0'-8" x 4'-0" x 15'-0"	#5 @ 12" O.C. MAX.	#5 HOOKED @ 12" O.C.	1.48
TOTAL FOUNDATION VOLUME				23.4

SLAB SCHEDULE			
ID	AREA (S.F.)	AVERAGE DEPTH	VOLUME (CY)
(S1)	544.76	0'-5"	8.41
(S2)	48.25	0'-7"	1.04
(S3)	171.66	1'-2"	5.15
(S4)	25.78	1'-0"	0.95
(S5)	168.00	0'-5"	2.59
(S6)	16.00	0'-4"	0.20
TOTAL SLAB VOLUME			18.4

10" POLYMER CONCRETE CHANNEL SCHEDULE					
ID	QTY	ARTICLE	NAME	H (IN.)	h (IN.)
(1)	2	076071334/240-230	ST-PCN-10"-DR-D400H9.4"-9.1"	9.4	9.1
(2)	4	076071334/250-240	ST-PCN-10"-DR-D400H9.8"-9.4"	9.8	9.4
(3)	4	076071334/260-250	ST-PCN-10"-DR-D400H10.2"-9.8"	10.2	9.8
(4)	6	076071334/270-260	ST-PCN-10"-DR-D400H10.6"-10.2"	10.6	10.2
(5)	6	076071334/280-270	ST-PCN-10"-DR-D400H11.0"-10.6"	11.0	10.6



- CONCRETE NOTES:**
- CONCRETE FOUNDATIONS WILL BE PAID TO THE NEAT LINES OF THE FOUNDATION PLAN AS REPORTED IN THE BID SCHEDULE.
  - ALL CONCRETE TO BE CONSTRUCTED ABOVE COMPACTED STRUCTURAL FILL ACCORDING TO THE GEOTECHNICAL INVESTIGATION. MINIMUM DEPTH REQUIREMENTS:  
 FOUNDATIONS 24"  
 NON STRUCTURAL FLOOR SLABS 18"  
 EXTERIOR FLATWORK 12"
  - ANCHOR SILL PLATES TO CONCRETE FOUNDATION USING 1/2" DIAMETER STEEL BOLTS. BOLTS SHALL BE EMBEDDED A MINIMUM OF 7" INTO THE FOUNDATION WALL. LOCATE BOLTS SUCH THAT THERE IS A BOLT AT EACH END OF THE WALL SECTION (12" MAX, 4" MIN FROM END) AND SPACED NO MORE THAN 4 FEET O.C. ALONG WALL
  - CONCRETE COVERAGE FOR REINFORCEMENT:  
 CONCRETE CAST AGAINST EARTH: 3"  
 FORMED EDGES EXPOSED TO WEATHER OR FREEZING: 2"  
 FINISHED INTERIOR SURFACES: 1 1/2"
  - INTERIOR CONCRETE FLOORS SHALL BE FINISHED WITH WATER REPELLENT CONCRETE SEALER GHOSTSHIELD LITHI-TEK 9500 OR APPROVED EQUIVALENT

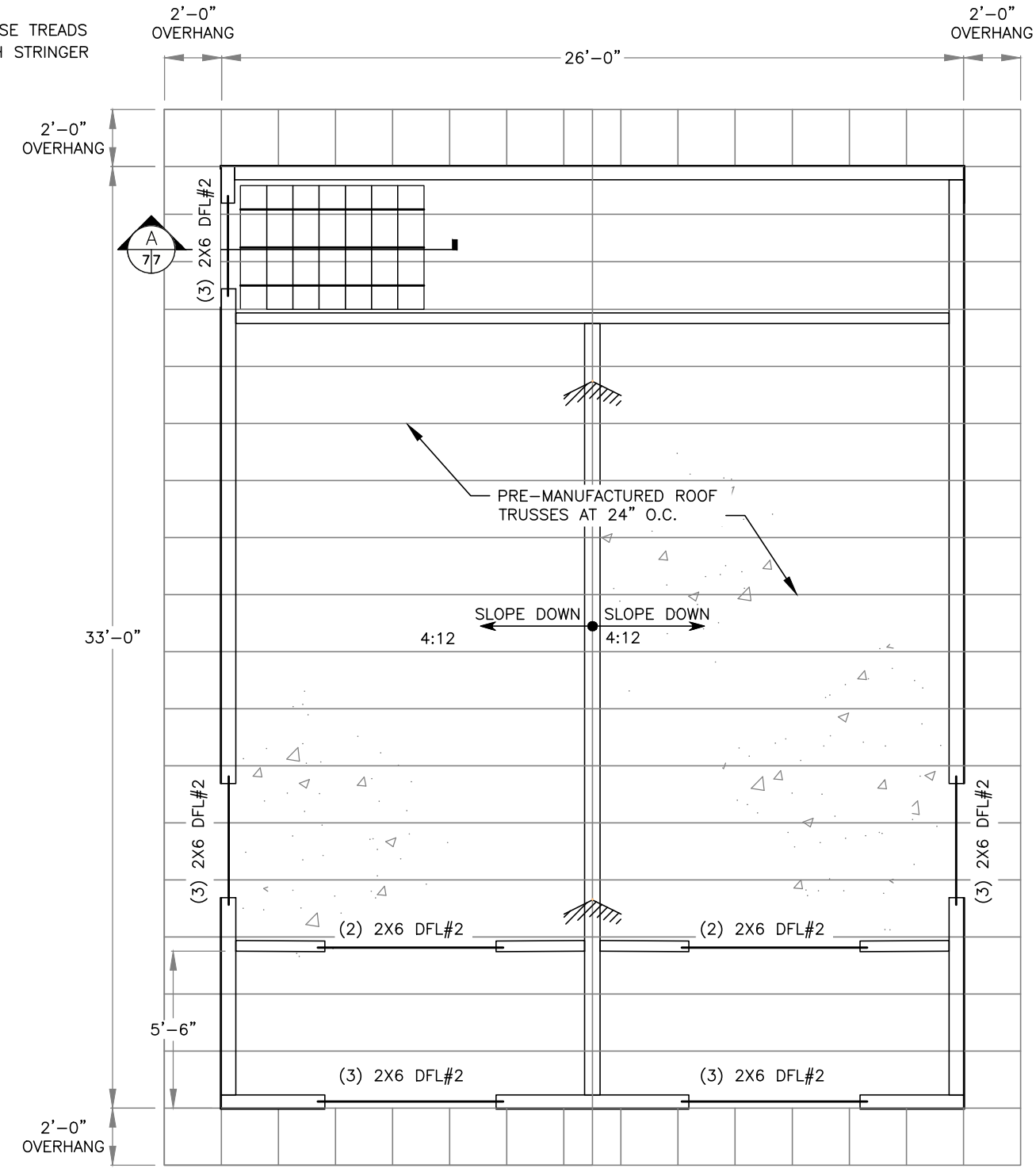
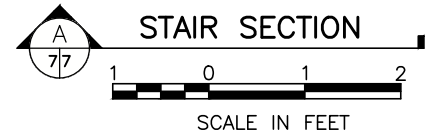
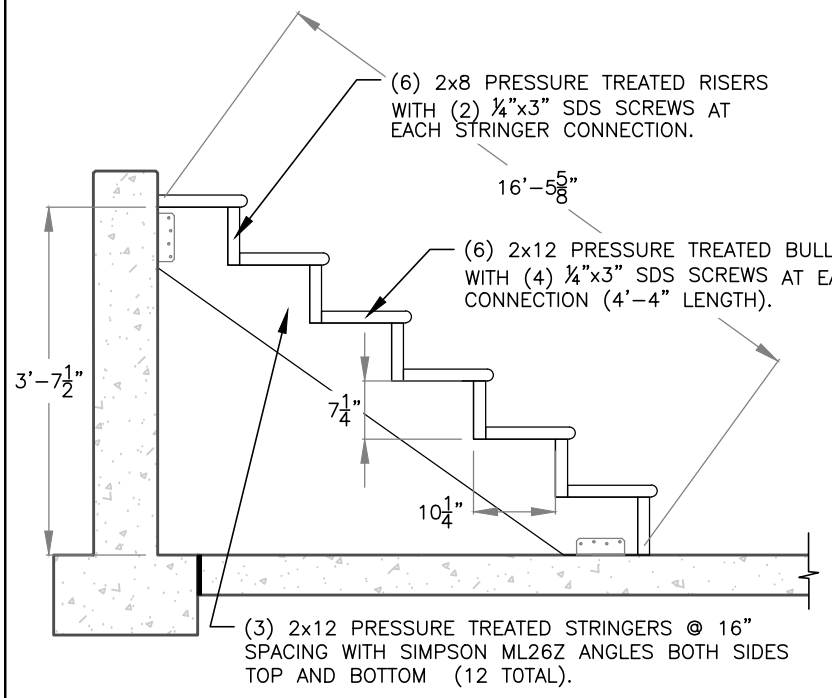
RIFLE FALLS SFU  
ISOLATION BUILDING

**FINAL FOR BID**  
FOUNDATION PLAN

OF 11

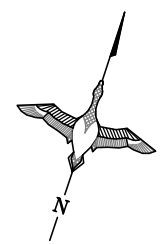
3/16" = 1' U.N.O.





**FRAMING NOTES:**

1. ROOF AND WALL SHEATHING SHALL BE 7/8" OSB/PLYWOOD (2% SPAN RATING OR BETTER). ROOF SHEATHING SHALL BE INSTALLED PERPENDICULAR TO SUPPORTING MEMBERS WITH VERTICAL JOINTS STAGGERED BETWEEN ROWS. THE FIRST ROW OF SHEATHING ABOVE GRADE SHALL BE PRESERVATIVE TREATED. WALL SHEATHING SHALL BE INSTALLED VERTICALLY WITH JOINTS LOCATED OVER FRAMING MEMBERS OR BLOCKING AND FASTENED WITH 6D COMMON NAILS SPACED 12" O.C. IN THE FIELD AND 6" O.C. ALONG PANEL EDGES.
2. COLORADO P.E. TO DESIGN ROOF TRUSSES. DESIGN CALCULATIONS AND SHOP DRAWINGS TO BE SUBMITTED TO CPW FOR REVIEW AND ACCEPTANCE.
3. SILL PLATES SHALL BE PRESSURED TREATED LUMBER IN ACCORDANCE WITH THE SPECIFICATIONS.
4. FASTENING OF WOOD FRAMING SHALL BE IN ACCORDANCE WITH TABLE 2304.9.1 OF THE IBC.
5. HEADERS ARE AS CALLED OUT ON PLAN. HEADERS TO BEAR ON (1) TRIMMER STUD WITH (1) KING STUD ADJACENT TO THE TRIMMER.



**FRAMING PLAN**

32" 0 32" 64"

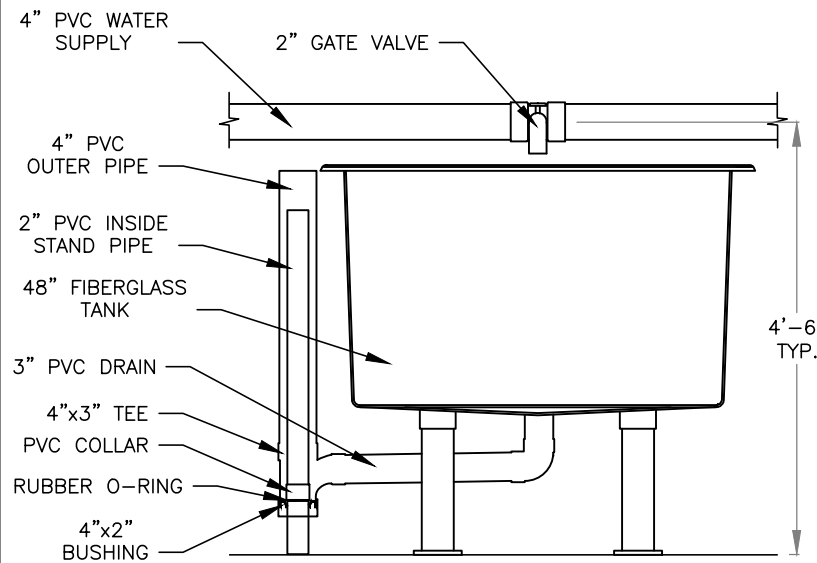
3/16" = 1' U.N.O.



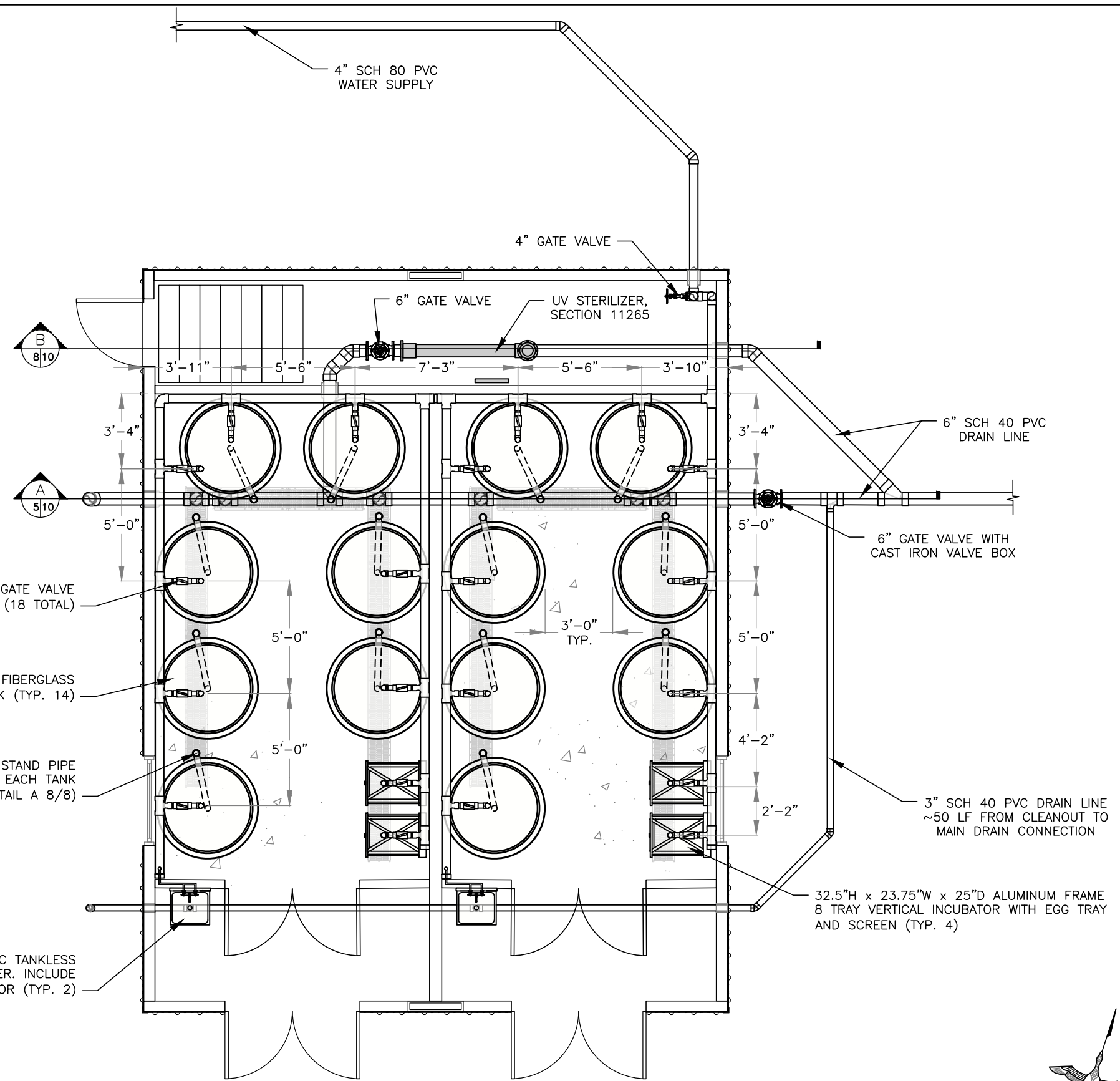
REVISIONS:	DATE	BY

DESIGNER:	JH
DRAFTER:	JH
CHECKED BY:	
APPROVED:	
CHIEF ENGR.:	

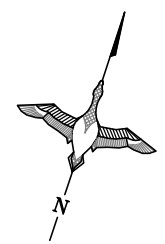
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PROJECT NO.:	SD033A
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**TANK DETAIL**




- 4X4X2 TEE WITH 2" GATE VALVE AT EACH TANK (18 TOTAL)
- 48"D x 30"H FIBERGLASS TANK (TYP. 14)
- INCLUDE STAND PIPE PLUMBING WITH EACH TANK (SEE DETAIL A 8/8)
- SERVICE SINK WITH ELECTRIC TANKLESS HOT WATER HEATER. INCLUDE PRESSURE REGULATOR (TYP. 2)



**PLUMBING PLAN**  
 32" 0 32" 64"  
 3/16" = 1'

RIFLE FALLS SFU  
ISOLATION BUILDING



DESIGNER:	DATE:	REVISIONS:
DRAFTER:	DATE:	
CHECKED BY:	DATE:	
APPROVED:	DATE:	
CHIEF ENGR.:		

DATE:	PROJECT NO.:	SHEET NO.:	OF 11
05/24	50033A	8	

**FINAL FOR BID**  
**PLUMBING PLAN**

EQUIPMENT SCHEDULE

ID	FIXTURE DESCRIPTION	MANUF.	MODEL	ACTIVATION FLOW	INDIVIDUAL LINE SIZES		
					COLD WATER	HOT WATER	POWER (kW/V)
(TWH)	TANKLESS WATER HEATER	BOSCH	TRONIC 3000	0.3 GPM	3/4"	3/4"	3.6kW@120V

LIGHTING SCHEDULE

ID	DESCRIPTION	MANUF.	MODEL	LUMENS	COLOR TEMP	QTY.
(1)	LED LINEAR STRIP	NICOR	LS1-10H	5393	3997 K	5
(2)	LED LINEAR STRIP	NICOR	LS1-10S	2948	3932 K	2
(3)	LED WALL PACK	NICOR	OWG1050	5948	3997 K	1

EXHAUST FAN/LOUVER SCHEDULE

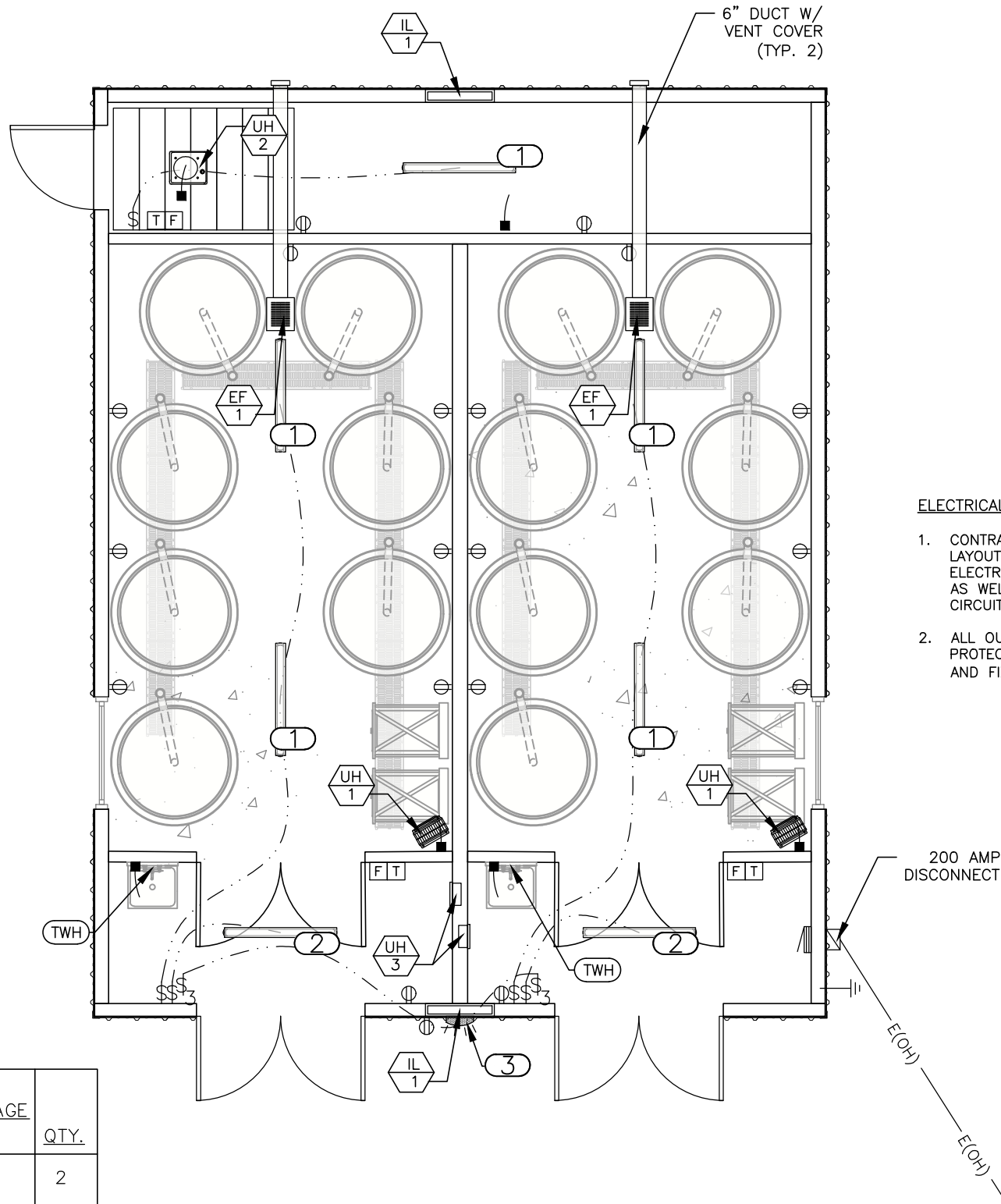
ID	MANUFACTURER	MODEL	WATTAGE OUTPUT (W)	AIR FLOW (CFM)	VOLTAGE (V)	AMPERAGE (A)	QTY.
(EF 1)	DAYTON	60KU30	172	195	115	2.2	2
(IL 1)	DAYTON	5NKJ2	N/A	744	N/A	N/A	2

WALL & CEILING UNIT HEATER SCHEDULE

ID	MANUFACTURER	MODEL	WATTAGE OUTPUT (kW)	HEATING CAPACITY (MBH)	AIR FLOW (CFM)	VOLTAGE (V)	AMPERAGE (A)	QTY.
(UH 1)	DAYTON	804T17	3.7, 5	12.6, 17	350	208/240	18, 21	2
(UH 2)	DAYTON	804T10	2.2, 3	7.5, 10.2	350	208/240	11, 12.5	1
(UH 3)	DAYTON	3ENC7	1	3.4	65	120	8.3	2

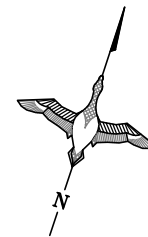
ELECTRICAL LEGEND

- POWER**
- ⊖ STRAIGHT BLADE DUPLEX RECEPTACLE
  - CONNECTION TO PRE-WIRED EQUIPMENT
  - ⊞ BREAKER PANEL
  - ⊞ GROUND CONNECTION
- SWITCHING**
- \$ WALL MOUNTED SWITCH
  - \$₃ 3-WAY SWITCH
- HEATING/COOLING SYSTEM**
- T WALL MOUNTED WIRED THERMOSTAT
  - F FAN CONTROL

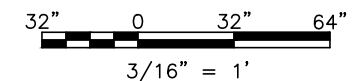


ELECTRICAL NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ELECTRICAL LAYOUT DRAWINGS AND PANNEL SCHEDULE FOR STATE ELECTRICAL PERMIT. CIRCUITS SHALL BE LABELED APPROPRIATELY AS WELL AS LABELS AT EACH OUTLET IDENTIFYING WHICH CIRCUIT THEY ARE CONNECTED TO.
- ALL OUTLETS IN ISOLATION ROOMS SHALL BE GROUND FAULT PROTECTED AND RECESSED IN FRP WITH WEATHERPROOF BOXES AND FIXED 60" ABOVE FF.



ELECTRICAL PLAN

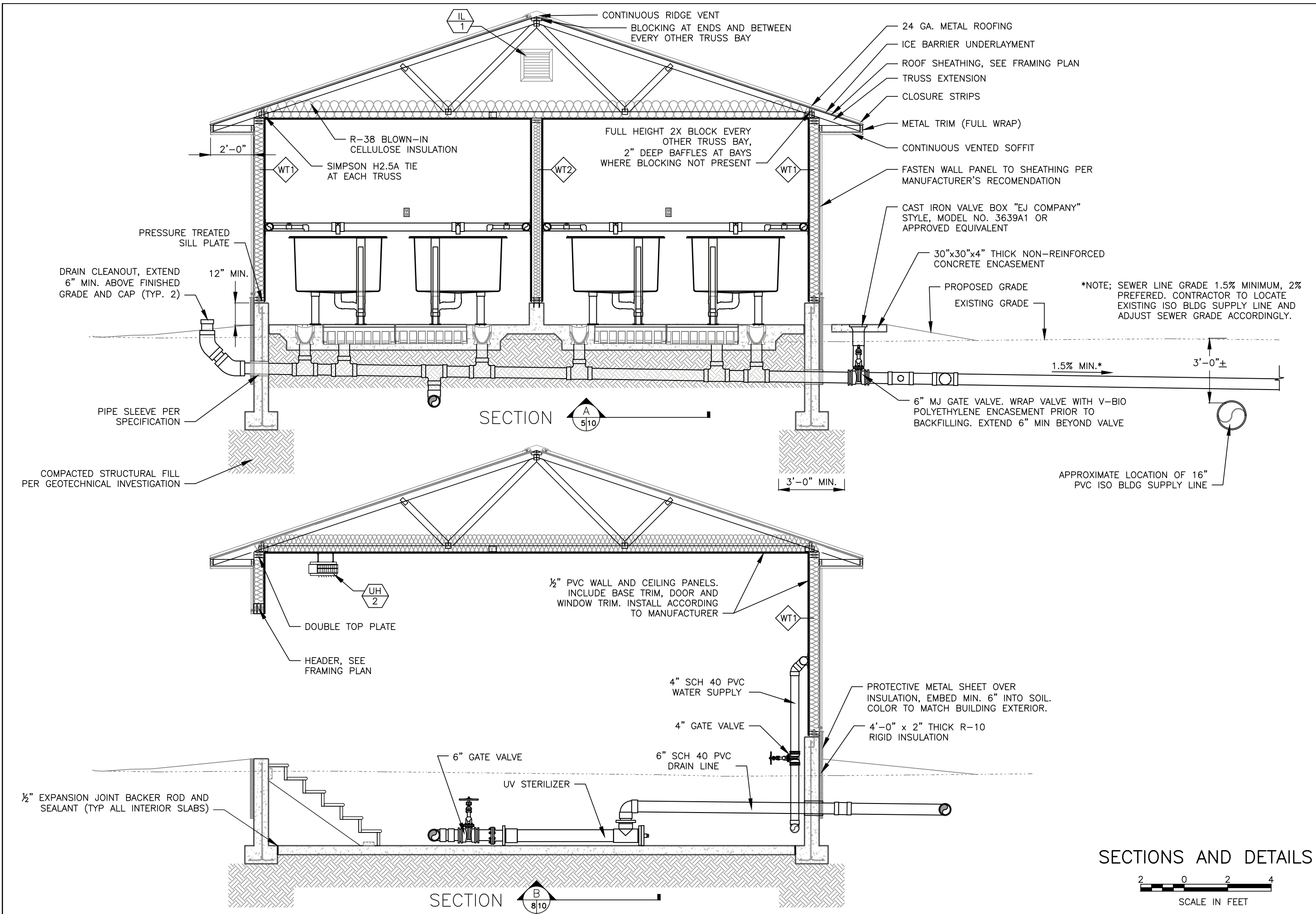


RIFLE FALLS SFU  
ISOLATION BUILDING



DATE	DESIGNER	DRAWN	CHECKED	APPROVED	CHIEF ENGR.
05/24	JH	JH			
PROJECT NO.	3003A				
SHEET NO.	9				
OF 11					

FINAL FOR BID  
ELECTRICAL PLAN




SECTIONS AND DETAILS

SCALE IN FEET

0 2 4

RIFLE FALLS SFU  
ISOLATION BUILDING

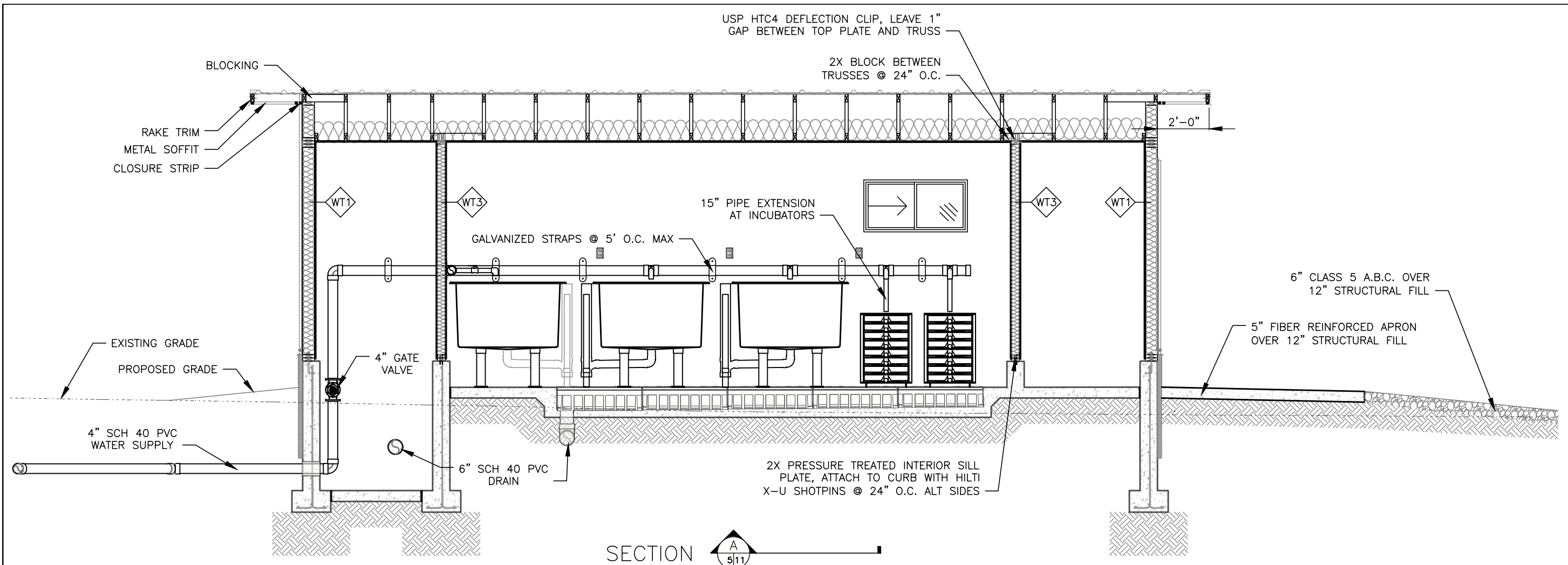


DESIGNER:	JH	CHECKED BY:	JH
DRAWN:	JH	APPROVED:	
DATE:	05/24	PROJECT NO.:	3003A
REVISIONS:		SHEET NO.:	10
DATE:	05/24	PROJECT NO.:	3003A
REVISIONS:		SHEET NO.:	10
DATE:	05/24	PROJECT NO.:	3003A
REVISIONS:		SHEET NO.:	10

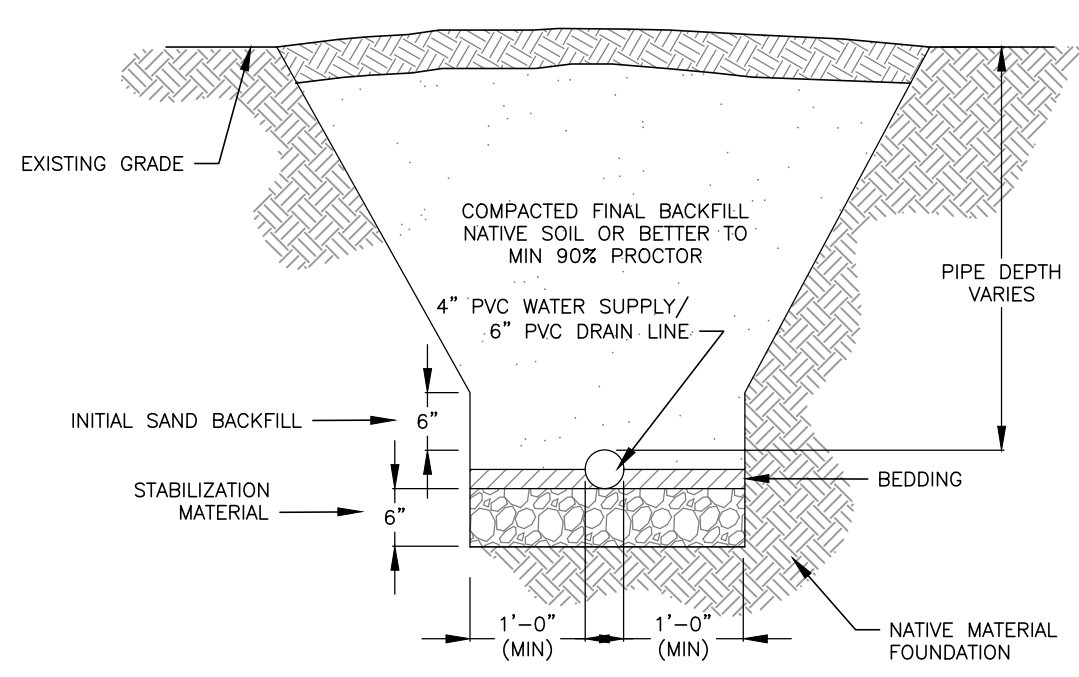
FINAL FOR BID

SECTIONS AND DETAILS

OF 11




SECTION **A**  
511



**B**  
1111 TRENCH DETAIL

SECTIONS AND DETAILS  
(2)  
SCALE IN FEET

RIFLE FALLS SFU  
ISOLATION BUILDING



DESIGNER:	JH	DATE:	05/24
DRAFTER:	JH	DATE:	05/24
CHECKED BY:			
APPROVED:			
CHIEF ENGR.:			

DATE:	PROJECT NO.:	SHEET NO.:	OF 11
	50423A	11	

FINAL FOR BID  
SECTIONS AND DETAILS (2)