



CITY OF BOISE



CITY OF BOISE  
J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
BOISE WHITEWATER PARK

---

2024 WINTER SPILLWAY MODIFICATIONS  
SEPTEMBER, 2024

---

*ISSUED FOR CONSTRUCTION*

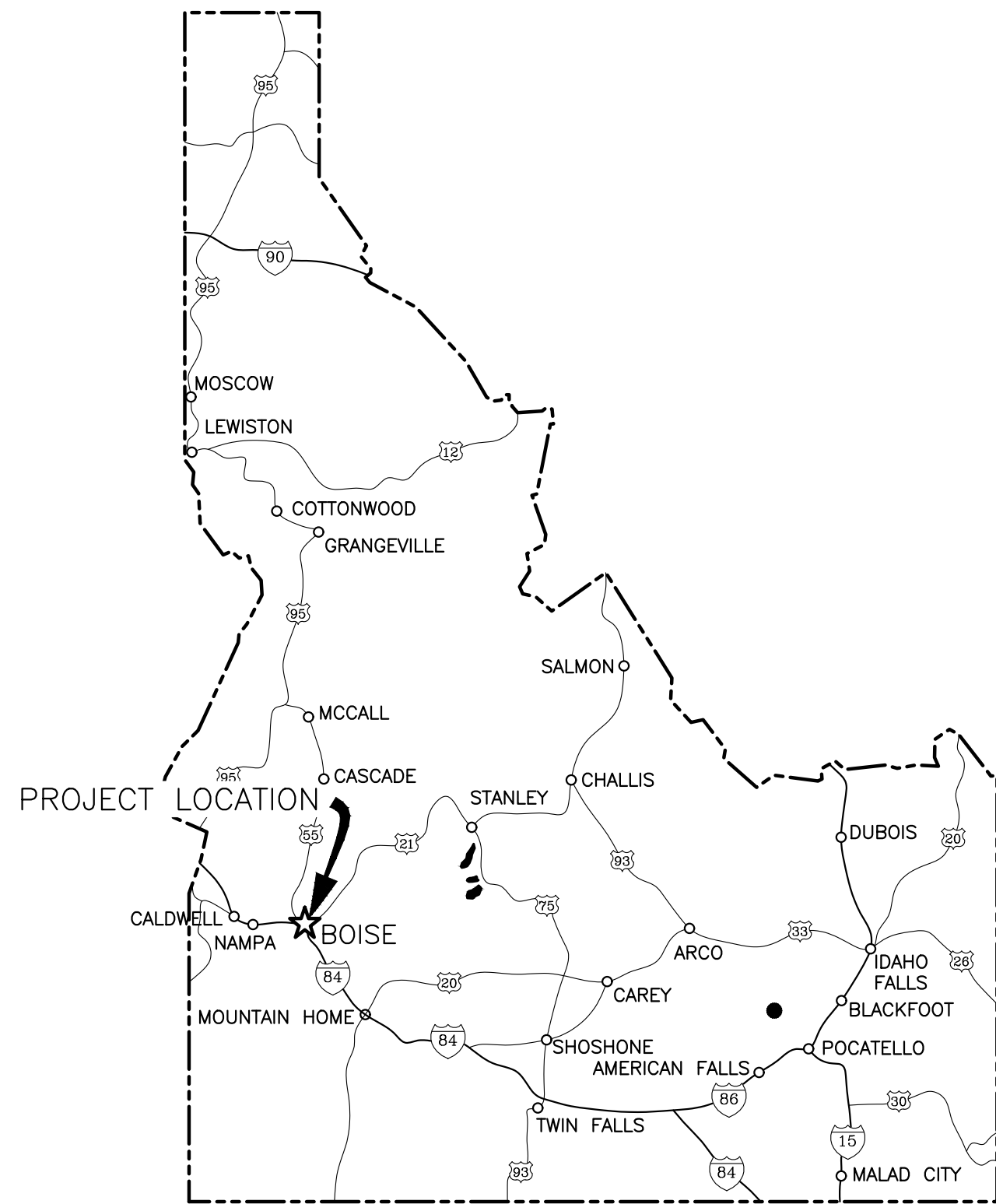


# CITY OF BOISE

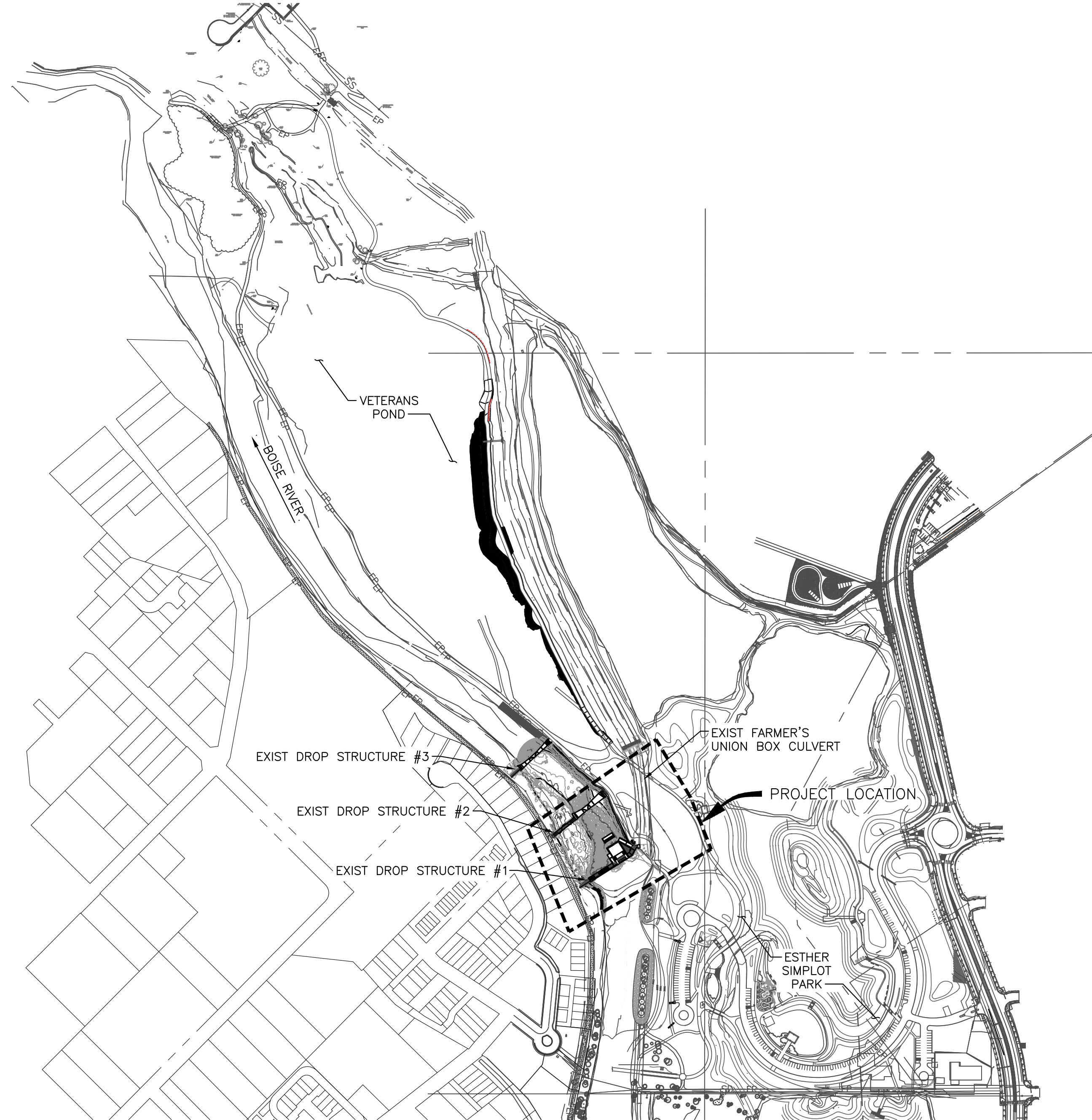
## J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION

### BOISE WHITEWATER PARK

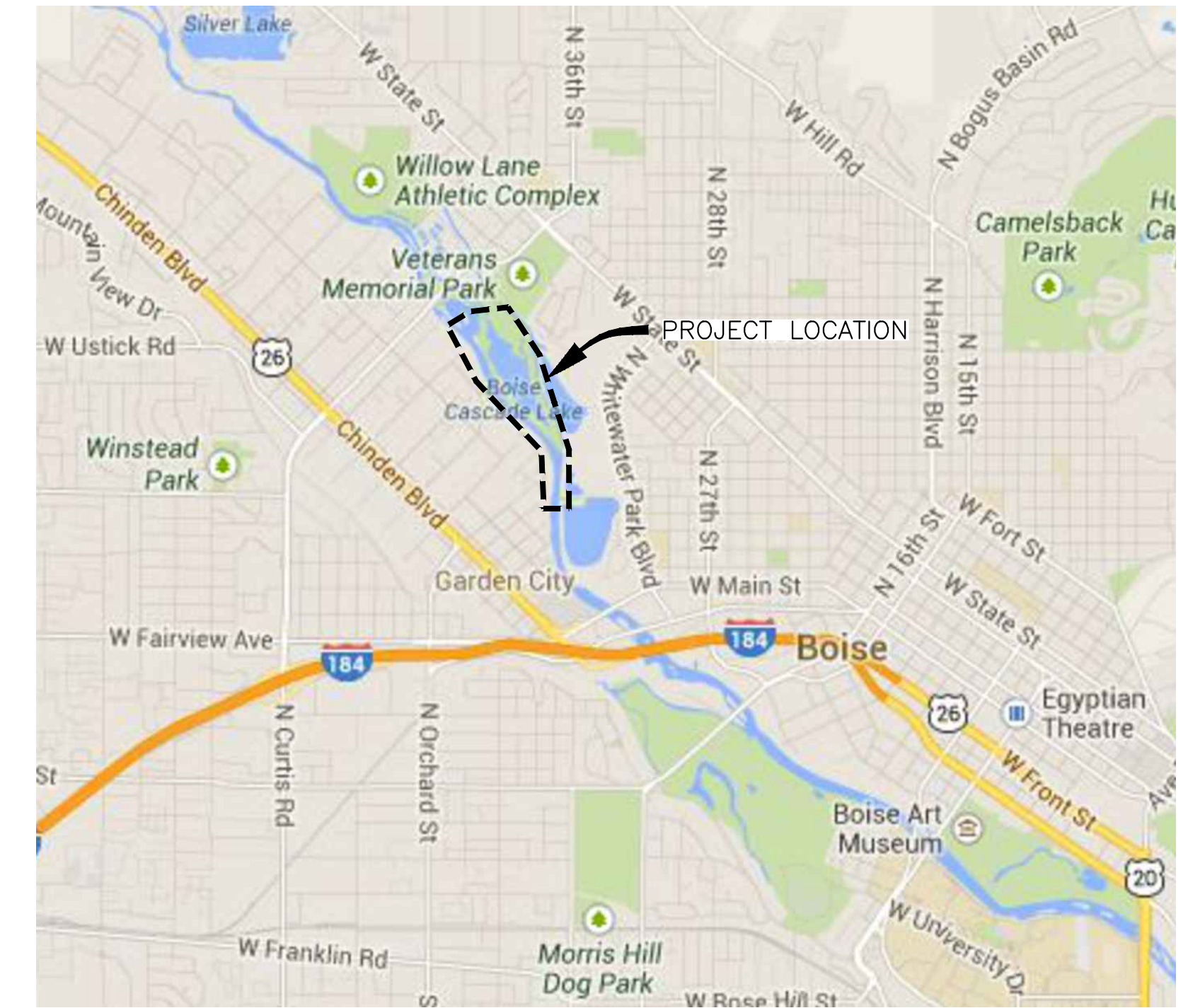
### 2024 WINTER SPILLWAY MODIFICATIONS



**LOCATION MAP**  
 NTS



**PROJECT LIMITS**  
 NTS



**VICINITY MAP**  
 NTS

REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION

WARNING  
  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CITY OF BOISE J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION BOISE WHITEWATER PARK
LOCATION MAP, VICINITY MAP, AND PROJECT LIMITS

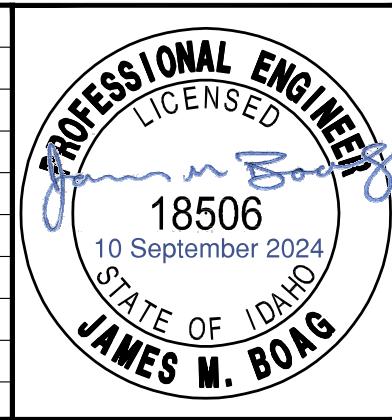
DESIGNED J. BOAG
DRAWN R. WOOD
CHECKED M. McMILLEN
ISSUED DATE 9/10/24

DRAWING
<b>G001</b>
SHEET 1 OF 40
SCALE: AS NOTED



DRAWING INDEX		
SHEET NO.	DRAWING NO.	SHEET TITLE
GENERAL		
COVER		
1	G001	LOCATION MAP, VICINITY MAP, AND PROJECT LIMITS
2	G002	DRAWING INDEX
3	G003	STANDARD ABBREVIATIONS
4	G004	STANDARD SYMBOLS
5	G005	REACH 2 DROP STRUCTURE 1 DESIGN MODIFICATION PLAN
DEMOLITION		
6	D101	REACH 2 DROP STRUCTURE 1 DEMOLITION PLAN
7	D102	REACH 2 DROP STRUCTURE 1 DEMOLITION SECTION
8	D103	AIRLINE VAULT DEMOLITION PLAN
CIVIL		
9	C101	OVERALL CIVIL PLAN
10	C102	REACH 2 DROP STRUCTURE 1 CIVIL PLAN
11	C103	PLUNGE POOL SECTION
12	C104	BARRIER PIPING ALONG CULVERT SECTION
STRUCTURAL		
13	S102	REACH 2 DROP STRUCTURE 1 TOP PLAN
14	S103	REACH 2 DROP STRUCTURE 1 SECTION
15	S104	REACH 2 DROP STRUCTURE 1 SPILLWAY PLAN
16	S105	REACH 2 DROP STRUCTURE 1 SPILLWAY SECTION
17	S106	BLOCKOUT DETAILS
18	S107	ADJUSTABLE WEIR SLAB FOUNDATION PLAN
19	S108	ADJUSTABLE WEIR SLAB FOUNDATION SECTION
MECHANICAL		
20	PF002	REVISED PROCESS FLOW DIAGRAM
21	GM001	STANDARD MECHANICAL AND PIPING SCHEDULES
22	GM002	STANDARD MECHANICAL DETAILS
23	M101	REACH 2 DROP STRUCTURE 1 MECHANICAL PLAN
24	M102	SPILLWAY PLAN AIRLINE MODS
25	M103	STILLING WELL ELEVATION AND DETAILS
26	M104	STILLING WELL TEMPORARY INSTALLATION OVERVIEW
27	M105	STILLING WELL TEMPORARY INSTALLATION DETAILS
ELECTRICAL		
28	GE001	STANDARD ELECTRICAL ABBREVIATIONS AND DEVICE INDEXES
29	GE002	ELECTRICAL STANDARD SYMBOLS 1
30	GE003	ELECTRICAL STANDARD SYMBOLS 2
31	E001	ONE LINE DIAGRAM
32	E002	RACEWAY AND CIRCUIT SCHEDULES
33	E100	ELECTRICAL SITE PLAN
34	E101	CONTROL BUILDING LIGHTING AND POWER PLAN
35	E102	VAULT ELECTRICAL PLAN AND INCLINOMETER DETAILS
36	E103	WATER LEVEL SENSORS ELECTRICAL DETAILS
37	E104	SITE CONDUIT ROUTING PLAN
38	E105	5 MODIFICATION DIAGRAM
39	E106	6 MODIFICATION DIAGRAM
40	E107	8 DIAGRAM

REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



WARNING  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CITY OF BOISE  
 J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
 BOISE WHITEWATER PARK

DRAWING INDEX

DESIGNED J. BOAG  
 DRAWN R. WOOD  
 CHECKED M. McMILLEN  
 ISSUED DATE 9/10/24

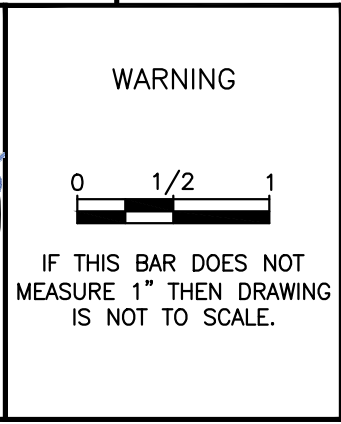
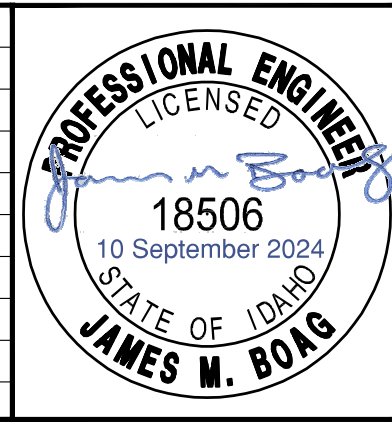
DRAWING  
**G002**  
 SHEET 2 OF 40  
 SCALE: AS NOTED

Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\G002.dwg Plot date: Sep 09, 2024 12:10pm



A/C	AIR CONDITIONING	CLKG	CAULKING	F&B	FACE & BYPASS	I	INSTRUMENTATION (DWG DISCIPLINE)	N	NORTH, NEUTRAL	REM	REMOVE	TP	TEST PIT
A/E	ARCHITECT/ENGINEER	CLR	CLEAR	F TO F	FACE TO FACE	ID	INSIDE DIAMETER, INTERIOR DIMENSION	NA	NOT APPLICABLE	REQD	REQUIRED	TPD	TOILET PAPER DISPENSER
A	ARCHITECTURAL (DWG DISCIPLINE), AMP	CMH	COMMUNICATION MANHOLE	FAB	FABRICATE	IE	INVERT ELEVATION	NAT	NATURAL	RESIL	RESILIENT	TPG	TOPPING
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	CMP	CORRUGATED METAL PIPE	FB	FLOOR BEAM	IF	INSIDE FACE	NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988	RET	RETAINING, RETURN	TR	TRANSOM
AB	ANCHOR BOLT	CMU	CONCRETE MASONRY UNIT	FBD	FIBERBOARD	IH	INTAKE HOOD	NC	NORMALLY CLOSED	REV	REVISION, REVERSE	TRANS	TRANSITION
ABC	AGGREGATE BASE COURSE	CO	CLEAN OUT, CONCRETE OPENING	FBG	FIBERGLASS	IMP	IMPACT	NEG	NEGATIVE	RF	RESILIENT FLOORING	TRD	TRENCH DRAIN
ABAN	ABANDON	COL	COLUMN	FBM	BOARD FOOT MEASURE	IN	INCH	RFG	ROOFING	RFL	REFLECTED, REFLECTOR	TYP	TYPICAL
ACHD	ADA COUNTY HIGHWAY DISTRICT	COM	COMMON	FBO	FURNISHED BY OWNER	INC	INCLUDE, INCANDESCENT	NF	NEAR FACE, NON-FUSED	RGH	ROUGH	U	URINAL
ACK	ACKNOWLEDGE	COMB	COMBINATION	FC	FLUSHING CONNECTION	INF	INFLUENT	NIC	NOT IN CONTRACT	RGS	RIGID GALVANIZED STEEL	UG	UNDERGROUND
ACP	ACOUSTIC CEILING PANEL, ASPHALTIC CONCRETE PAVEMENT	COMM	COMMUNICATION	FCA	FLANGED COUPLING ADAPTER	INSTR	INSTRUMENTATION	NO	NORMALLY OPEN, NUMBER	RGS-PVC	PVC COATED RGS	ULT	ULTIMATE
AD	ADDENDUM, AREA DRAIN	COMP	COMPOSITION, COMPRESSIBLE, COMPOSITE	FDC	FLEXIBLE DUCT CONNECTION	INSUL	INSULATION	NOM	NOMINAL	RH	RELIEF HOOD, RIGHT HAND, RELATIVE HUMIDITY	UNFN	UNFINISHED
ADA	AMERICANS WITH DISABILITIES ACT	CONC	CONCENTRIC, CONCRETE	FDTN	FOUNDATION	INTR	INTERMEDIATE, INTERIOR	NPS	NOMINAL PIPE SIZE	RL	REQUIRED LAP	UNO	UNLESS NOTED OTHERWISE
ADDL	ADDITIONAL	CONN	CONNECTION	FDR	FEEDER	INV	INVERT	NS	NEAR SIDE	RND	ROUND	UTIL	UTILITY
ADH	ADHESIVE	CONST	CONSTRUCTION	FE	FLANGED END	IPS	IRON PIPE SIZE	NTS	NOT TO SCALE	RNG	RUNNING	V	VENT, VELOCITY, VOLT
ADJ	ADJUSTABLE, ADJACENT	COOR	COORDINATE	FEC	FIRE EXTINGUISHER CABINET	IR	INTERNAL PIPE THREAD	NWL	NORMAL WATER LEVEL	RO	ROUGH OPENING	VA	VOLT AMPERE
AFF	ABOVE FINISH FLOOR	CORR	CORROSIVE, CORRUGATED	FES	FLARED END SECTION	IRR	IRRIGATION	O TO O	OUT-TO-OUT	OA	OUTSIDE AIR, OVERALL	VAC	VACUUM
AFG	ABOVE FINISH GRADE	CP	CHECKER PLATE, CONTROL POINT	FEXT	FIRE EXTINGUISHER	ISO	ISOMETRIC	OC	ON CENTER	OC	ON CENTER	VAR	VARNISH, VARIABLE,
AGGR	AGGREGATE	CPLG	COUPLING	FF	FAR FACE, FACTORY FINISH, FLAT FACE	JB	JUNCTION BOX	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
AI	AREA INLET	CRL	CORROSION RESISTANT LINING	FG	FINISHED GRADE	JCT	JUNCTION	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
ALIG	ALIGNMENT	CSC	COMPRESSION SLEEVE COUPLING	FIG	FIGURE	JF	JOINT FILLER	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
ALUM	ALUMINUM	CSK	COUNTERSINK	FIH	FIRE HYDRANT	JT	JOINT	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
ALT	ALTERNATE, ALTITUDE	CS	CLINIC SERVICE SINK	FIN	FINISH	JST	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
AM	ACOUSTICAL MATERIAL	CS	CERAMIC TILE	FJT	FLUSH JOINT	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
AMB	AMBIENT	CT	CENTER	FL	FLOW, FLOW LINE	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
ANC	ANCHOR	CTR	CONTROL	FLEX	FLEXIBLE	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
AP	ACCESS PANEL	CTRL	CONTROL	FLG	FLANGE	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
APRX	APPROXIMATE	CVT	CULVERT	FLOR	FLUORESCENT	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
APVD	APPROVED	CW	COPPER, CUBIC	FLR	FLOOR	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
ARCH	ARCHITECTURAL	CY	CLOCKWISE	FLS	FLASHING, FLUSH	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
ASSY	ASSEMBLY		CUBIC YARD	FN	FENCE	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIAL			FO	FINISHED OPENING	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
ATC	ACOUSTICAL TILE CEILING	d	PENNY (NAIL MEASURE)	FOB	FENCE FLAT ON BOTTOM	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
ATM	ATMOSPHERE	D	DEEP, DIFFUSER	FOC	FACE OF CONCRETE, FACE OF CURB	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
AUTO	AUTOMATIC	DB	DUCT BANK, DECIBEL, DRY BULB	FOF	FACE OF FINISH	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
AUX	AUXILIARY	DBA	DEFORMED BAR ANCHOR	FOM	FACE OF MASONRY	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
AVE	AVENUE	DBL	DOUBLE	FOS	FACE OF STUDS	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
AVG	AVERAGE	DC	DIRECT CURRENT	FOT	FLAT ON TOP	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
AWWA	AMERICAN WATER WORKS ASSOCIATION	DEG	DEGREE	FPT	FEMALE PIPE THREAD	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
B/B	BACK TO BACK	DEG C	DEGREE CENTIGRADE	FR	FRAME	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BAL	BALANCE	DEG F	DEGREE FAHRENHEIT	FRP	FIBERGLASS REINFORCED PLASTIC	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BB	BULLETIN BOARD			FRM	FRAME	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BB	BASE CABINET, BOTTOM CHORD,			FS	FLOOR SINK, FAR SIDE	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BC	BOLT CENTER, BOLT CIRCLE	DET	DEPARTMENT	FT	FEET	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BD	BOARD	DI	DIAMETER	FTG	FOOTING, FITTING	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BE	BOTH ENDS, BELL END	DIAG	DIAGONAL, DIAGRAM	FUDC	FARMERS UNION DITCH COMPANY	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BF	BOTH FACES, BOTTOM FACE,	DIFF	DIFFERENTIAL, DIFFERENCE	FUR	FURRED, FURRING	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BKG	BACKING	DIM	DIMENSION	FURN	FURNITURE, FURNISH	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BL	BASE LINE	DISCH	DISCHARGE	FUT	FUTURE	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BLDG	BUILDING	DIST	DISTANCE, DISTRIBUTION	FW	FACE VELOCITY	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BLK	BLOCK	DIV	DIVISION	FW	FIELD WELD, FIRE WALL	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BLKG	BLOCKING	DL	DEAD LOAD	FWD	FORWARD	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BLVD	BOULEVARD	DMJ	DOUBLE MECHANICAL JOINT	FWE	FURNISHED WITH EQUIPMENT	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BM	BENCHMARK, BEAM	DL	DEAD LOAD	FXTR	FIXTURE	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BMP	BEST MANAGEMENT PRACTICE	DN	DOWN	G	GRILLE, GROUND, GENERAL (DWG DISCIPLINE)	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BOC	BACK OF CURB	DO	DISSOLVED OXYGEN, DITTO	GAL	GALLON	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BOD	BOTTOM OF DUCT	DP	DEPTH	GALV	GALVANIZED	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BOG	BOTTOM OF GRILLE	DPDT	DOUBLE POLE, DOUBLE THROW	GB	GRAB BAR, GRADE BREAK	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BOL	BOTTOM OF LOUVER	DPST	DOUBLE POLE, SINGLE THROW	GC	GROOVED COUPLING	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BOF	BOTTOM OF PIPE	DR	DIMENSION RATIO	GD	GUARD	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BOR	BOTTOM OF REGISTER	DS	DOWN SPOUT	GEN	GENERAL	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BOT	BOTTOM	DT	DOUBLE TEE, DRIP TRAP ASSEMBLY	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BOU	BOTTOM OF UNIT	DUP	DUPLICATE	GFMU	GROUND FACE MASONRY UNIT	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BP	BASE PLATE	DWG	DRAWING	GG	GUTTER GRADE	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BRG	BEARING	DWR	DRAWER	GJ	GROOVED JOINT	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BRGP	BEARING PLATE	GL	GLASS	GL	GLASS	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BRKT	BRACKET	GN	GROUND	GN	GROUND	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BS	BOTH SIDES	OND	MIXED AIR	GP	GUY POLE	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BTU	BRITISH THERMAL UNIT	OR	ELECTRICAL CONTRACTOR	GR	GRADE	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BTW	BETWEEN	ECC	ECCENTRIC	GRTG	GRATING	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BTWLD	BUTT WELD	ECC	ECCENTRIC	GSB	GYP SUM SHEATHING BOARD	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BU	BELL UP, BUILT UP	EDB	ELECTRICAL DUCT BANK	GT	GREASE TRAP	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BUR	BUILT-UP ROOFING	EE	EACH END	GVL	GRAVEL	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BW	BOTH WAYS	EF	EACH FACE	GWB	GYP SUM WALLBOARD	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
BY	BYPASS	EFF	EFFLUENT, EFFICIENCY	GYP	GYP SUM HARDBOARD	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
C TO C	CENTER TO CENTER	EHH	ELECTRICAL HANDHOLE	H	HIGH	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
C&G	CURB & GUTTER	EIFS	EXTERIOR INSULATION & FINISH SYSTEM	HB	HOSE BIB	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
C	CHANNEL SHAPE, CENTIGRADE, CONDUIT, CIVIL (DRAWING DISCIPLINE)	EJ	EXPANSION JOINT	HRD	HARDBOARD	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CAB	CABINET	EL	ELBOW, ELEVATION	HC	HANDICAPPED, HOLLOW CORE, HORIZONTAL CURVE	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CAP	CAPACITY	ELEC	ELECTRICAL	HDR	HORIZONTAL CENTERLINE	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CAT	CATALOG	EMBD	EMBEDDED	HDR	HEADER	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CAV	CAVITY	EMER	EMERGENCY	HDW	HARDWARE	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CB	CATCH BASIN	EMH	ELECTRICAL MANHOLE	HEX	HEXAGONAL	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CCB	CONCRETE BLOCK	ENCL	ENCLOSURE	HGR	MISCELLANEOUS	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CCW	COUNTER CLOCKWISE	ENGR	ENGINEER	HH	HANDHOLE	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CD	CONTROLLED DENSITY FILL	ENTR	ENTRANCE	HID	HIGH INTENSITY DISCHARGE	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CE	CONCRETE EDGE	EOP	EDGE OF PAVEMENT	HM	HOLLOW METAL	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CER	CERAMIC	EQ	EQUAL	HORIZ	HORIZONTAL	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CF	CUBIC FEET (FOOT)	EQUIP	EQUIPMENT	HP	HIGH POINT, HORSEPOWER	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CFL	COUNTER FLASHING	EQUIV	EQUIVALENT	HPC	HORIZONTAL POINT OF CURVATURE	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CHFR	CHAMFER	ES	EMERGENCY SHOWER	HPS	HIGH PRESSURE SODIUM	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CHRD	CHALKBOARD	ESEW	EMERGENCY SHOWER AND EYE WASH	HPT	HORIZONTAL POINT OF TANGENCY	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CHD	CHORD	EST	ESTIMATE, END SLOPE TRANSITION	HR	HOSE REEL, HOUR	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CI	CURB INLET	EW	EACH WAY, EMERGENCY	HS	HEADED STUD, HIGH STRENGTH	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CIP	CAST-IN-PLACE		EYE/FACE WASH	HSS	HOLLOW STRUCTURAL SHAPE	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CIPB	CONCRETE INTERLOCKING PAVER			HT	HEIGHT	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CIRC	CIRCULATION, CIRCULAR	EWC	ELECTRIC WATER COOLER	HTG	HEATING	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CJ	CONSTRUCTION JOINT	EWFC	EACH WAY, EACH FACE	HTV	HIGH VOLTAGE	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CKT	CIRCUIT	EWTB	EACH WAY, TOP AND BOTTOM	HVAC	HEATING, VENTILATION & AIR CONDITIONING	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CL	CENTERLINE, CLASS, CLOSE	EXC	EXCAVATION	HWD	HARDWOOD	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CLG	CEILING	EXH	EXHAUST	HWL	HIGH WATER LEVEL	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
CLJ	CONTROL JOINT	EXIST	EXISTING	HYD	HYDRAULIC	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
		EXP	EXPANSION, EXPOSED	HZ	HERTZ, CYCLES PER SECOND	JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE
		EXT	EXTERIOR, EXTERNAL, EXTENSION			JT	JOIST	OC	ON CENTER	OC	ON CENTER	VP	VOLT AMPERES REACTIVE

0	9/10/24	MDM	ISSUED FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION



CITY OF BOISE	
J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION BOISE WHITEWATER PARK	
STANDARD ABBREVIATIONS	

DESIGNED	J. BOAG
DRAWN	R. WOOD
CHECKED	M. McMILLEN
ISSUED DATE	9/10/24

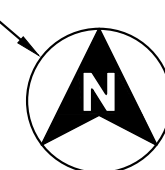
DRAWING	G003
SHEET	3 OF 40
SCALE:	AS NOTED

Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclauglin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\G003.dwg Plot date: Sep 09, 2024 12:10pm



**SHEET SYMBOLS**

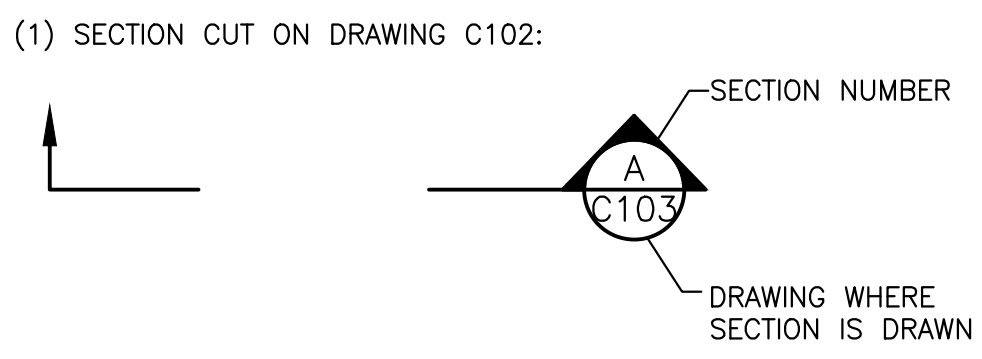
ARROW INDICATES DIRECTION OF PLAN NORTH



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

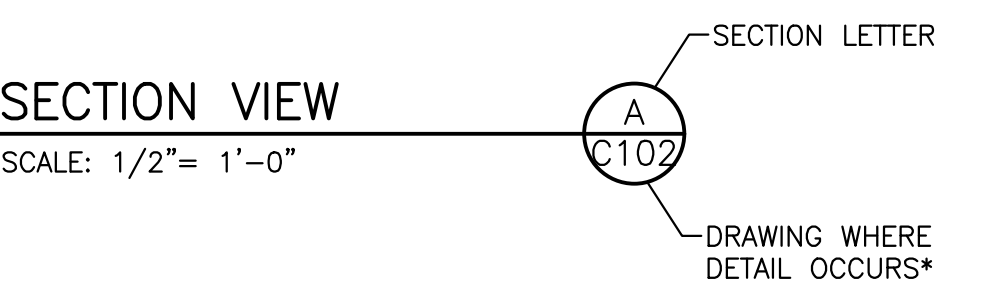
**SECTION IDENTIFICATION**

(1) SECTION CUT ON DRAWING C102:



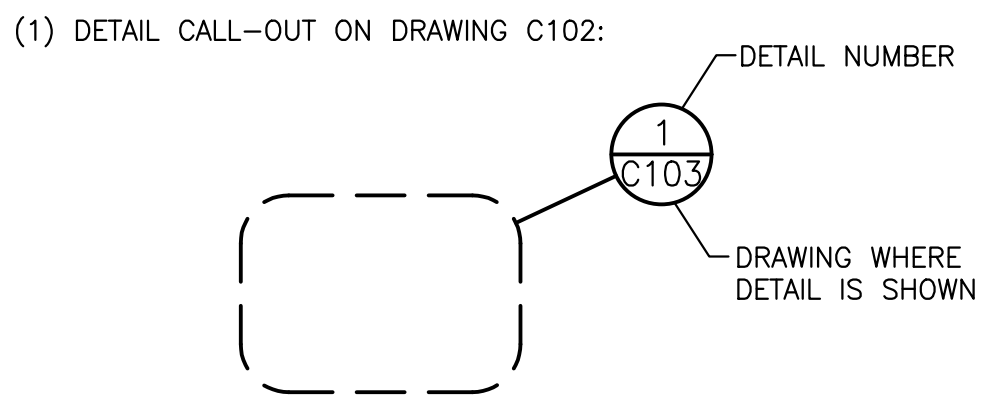
(2) ON DRAWING C103 THIS SECTION IS IDENTIFIED AS:

**SECTION VIEW**  
SCALE: 1/2" = 1'-0"



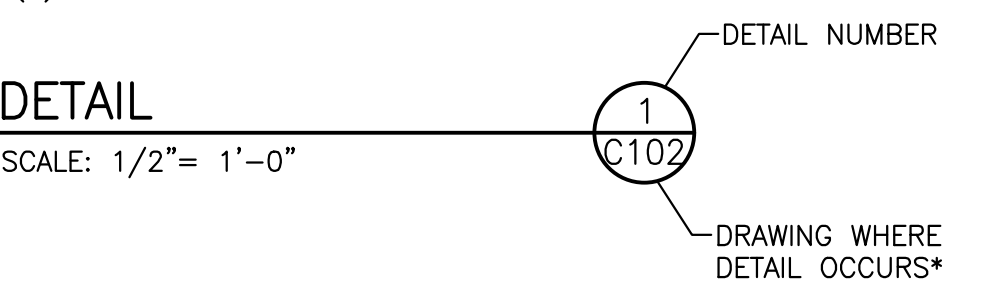
**DETAIL IDENTIFICATION**

(1) DETAIL CALL-OUT ON DRAWING C102:



(2) ON DRAWING C103 THIS SECTION IS IDENTIFIED AS:

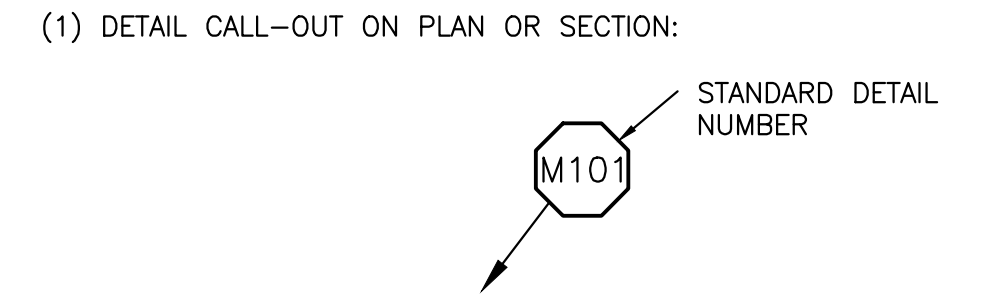
**DETAIL**  
SCALE: 1/2" = 1'-0"



\*NOTE: IF PLAN AND SECTION (OR DETAIL CALL-OUT AND DETAIL) ARE SHOWN ON SAME DRAWING, DRAWING NUMBER IS REPLACED BY A LINE.

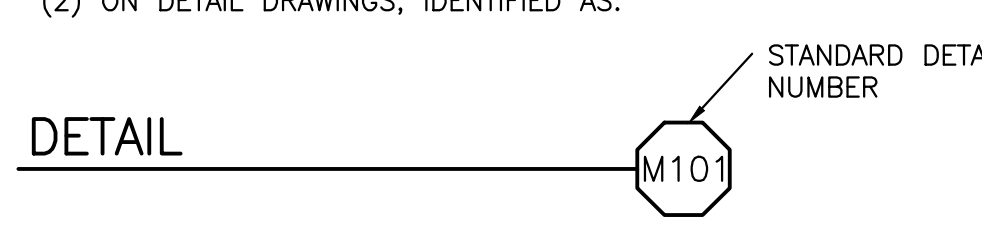
**STANDARD DETAIL IDENTIFICATION**

(1) DETAIL CALL-OUT ON PLAN OR SECTION:



(2) ON DETAIL DRAWINGS, IDENTIFIED AS:



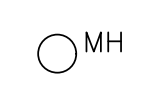
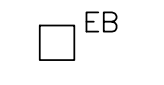

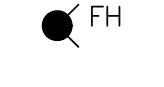



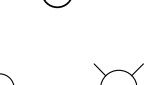
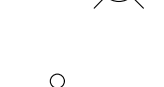



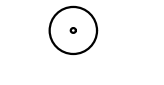

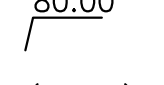
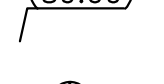



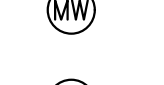


**DETAIL**



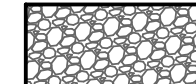
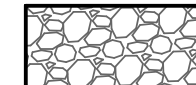

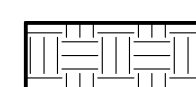
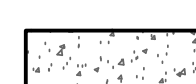
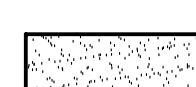





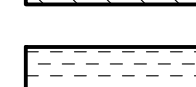
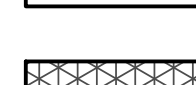


**SITE PLAN LINE TYPES**

— X — X —	FENCE LINE
— OHP —	OVERHEAD POWER
— P — P —	UNDERGROUND POWER
— 455 —	MAJOR CONTOUR
— 456 —	MINOR CONTOUR
— ... —	EDGE OF WATERLINE
— TOE — TOE —	TOE OF SLOPE
— TOB — TOB —	TOP OF BANK
— SS — SS —	SANITARY SEWER
— SD — SD —	STORM DRAIN
— EP — EP —	EDGE OF PAVEMENT
— EG — EG —	EDGE OF GRAVEL
— W —	WATTLE
— SF — SF —	SILT FENCE
— CF — CF —	CONSTRUCTION FENCE
— GAS — GAS —	GAS LINE
— PW — PW —	POTABLE WATER
— PE/L —	POWER EASEMENT LINE
— GE/L —	GAS EASEMENT LINE
— - - - -	CONSTRUCTION LIMITS
— W —	STRAW WATTLES
— SF —	SILT FENCE
— TC —	TURBIDITY CURTAIN
— - - - -	PARCEL LINES

**SITE PLAN SYMBOLS**

	CONIFER TREE: FIR, SPRUCE, LARCH OR PINE, 8" DIAMETER OR LARGER.
	DECIDUOUS TREE: COTTONWOOD, HAWTHORN, ASPEN, 8" DIAMETER OR LARGER.
	MANHOLE
	ELECTRIC BOX
	STORM DRAIN MANHOLE
	FIRE HYDRANT
	YARD HYDRANT
	SURVEY CONTROL POINT, AS NOTED.
	POLE ANCHOR
	POWER POLE
	LIGHT POLE
	SIGN
	CONTROL POINT
	SITE COORDINATES
	HORIZONTAL CONTROL POINT
	VERTICAL CONTROL POINT
	HORZ AND VERT CONTROL POINT
	FINISHED ELEVATION
	EXISTING ELEVATION
	BENCH MARK
	SOIL BORING LOCATION
	TEST PIT LOCATION
	MONITORING WELL
	PRODUCTION WELL

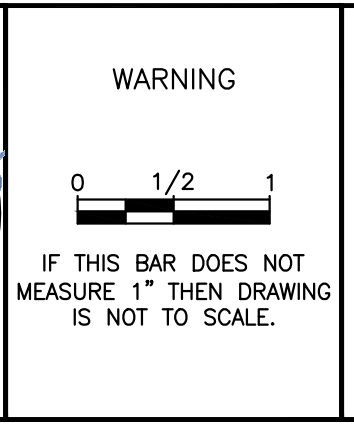
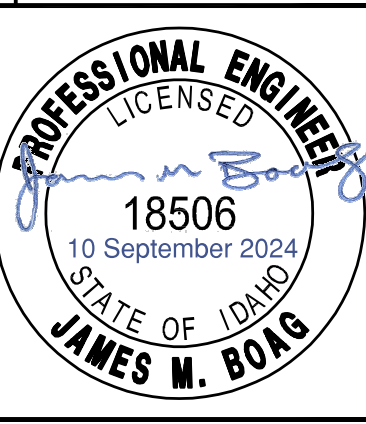
**HATCH SYMBOLS**

	ROCK, TYPE AS NOTED (PLAN/SECTION)
	BED ROCK
	EXISTING GRADE (SECTION)
	NEW SOIL (SECTION)
	CONCRETE (SECTION/PLAN)
	SAND, GROUT (PLAN/SECTION)
	GRATING (PLAN)
	RIP RAP (PLAN/SECTION)
	GRASS (PLAN)
	COFFER DAM
	DEMOLITION AREA
	ASPHALT PAVEMENT PEDESTRIAN
	GRASS PATHWAY PEDESTRIAN
	SAND PATHWAY PEDESTRIAN
	CONCRETE PATHWAY PEDESTRIAN

**GENERAL NOTES:**

- ALL SYMBOLS ARE NOT NECESSARILY USED THIS IS A STANDARD DRAWING SHOWING COMMON SYMBOLS ON THIS PROJECT.
- SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH DRAWING FOR USAGE.

REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



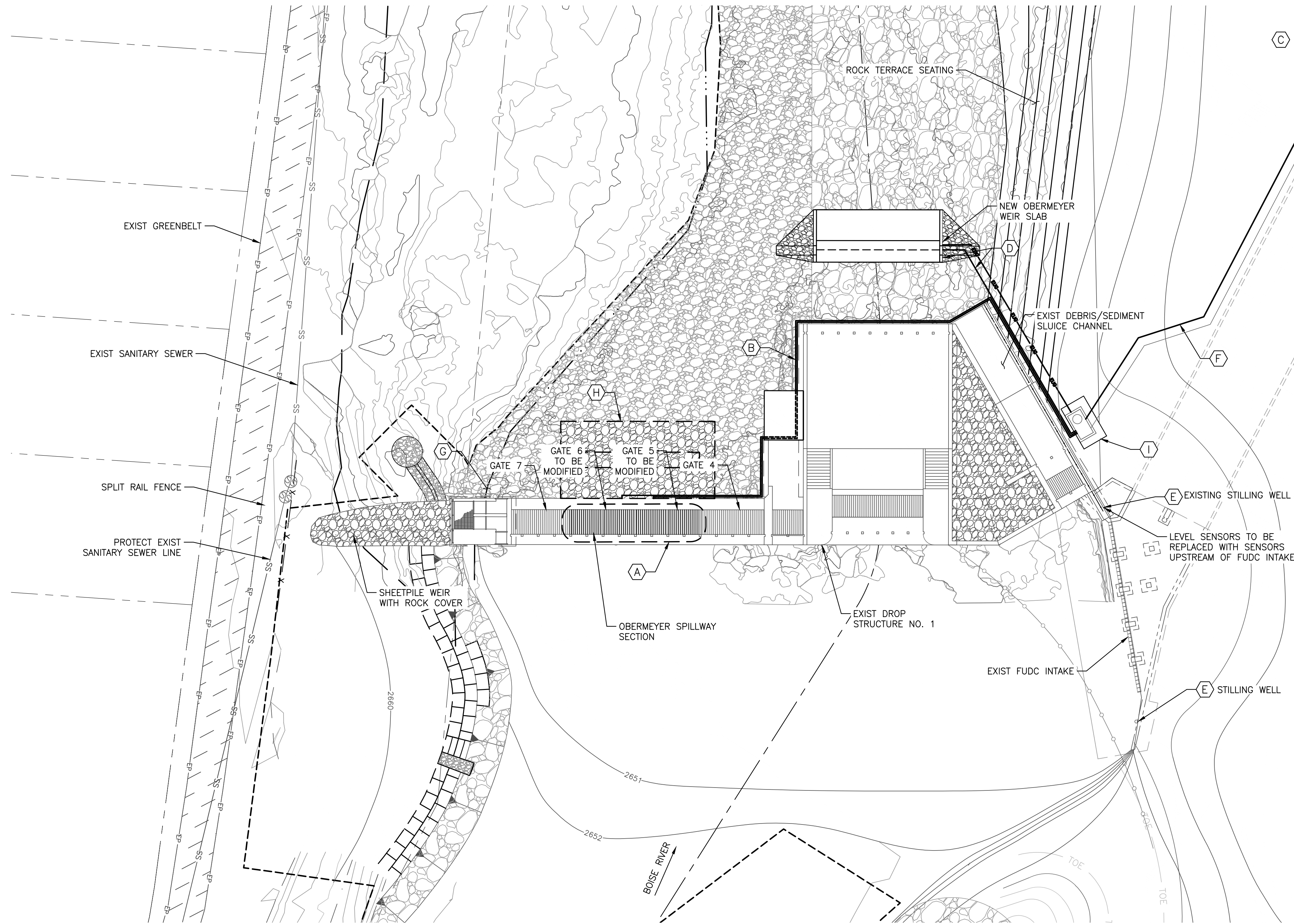
CITY OF BOISE J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION BOISE WHITEWATER PARK
STANDARD SYMBOLS

DESIGNED J. BOAG
DRAWN R. WOOD
CHECKED M. McMILLEN
ISSUED DATE 9/10/24

DRAWING
<b>G004</b>
SHEET 4 OF 40
SCALE: AS NOTED

Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\G004.dwg Plot date: Sep 09, 2024 12:10pm

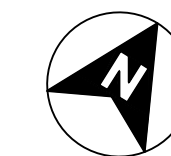
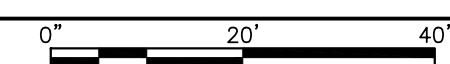




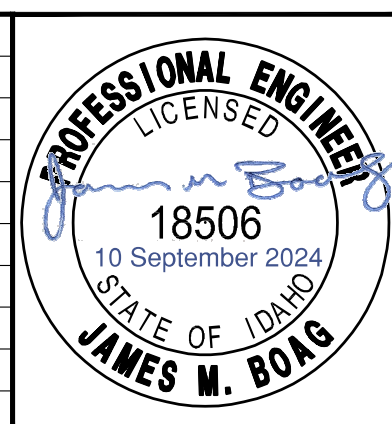
- SHEET KEY NOTES:**
- A REMOVE AND MODIFY GATES 5 AND 6 PER OBERMEYER DRAWINGS. MODIFICATIONS INCLUDE SPLITTING WEIR TO TWO (APPROXIMATELY EQUAL 10' SECTIONS) SECTIONS, ADDING SEAL LEAKS, SEAL FACING BARS, NEW SMALLER AIR BAGS, ADDING AN ADDITIONAL INCLINOMETER AND CABLE, REVISING RETAINING STRAPS. SEE OBERMEYER SHOP DRAWINGS FOR GATE MODIFICATION DETAILS.
  - B ADD TWO NEW CONTROL ZONES FROM EQUIPMENT BUILDING AND ROUTE ALONG DOWNSTREAM EDGE OF STRUCTURES AS SHOWN ON MECH DRAWINGS. ENCASE LINES IN CONCRETE PER STRUCTURAL DRAWINGS.
  - C CONFIGURATION OF AIR PIPING IN EQUIPMENT ROOM AS SHOWN ON MECH AND ELEC DRAWINGS. MCMILLEN TO MODIFY PLC PROGRAMMING FOR THE NEW GATE CONFIGURATION.
  - D NEW 40' W X 4' TALL OBERMEYER WEIR TO BE ADDED TO STABILIZE EXISTING WAVESHAPER GATE TO BE ADDED WITH NEW SLAB, END WALLS, RIPRAP ON END WALLS, AIRLINE(S) AND CONDUIT AS REQUIRED BY OBERMEYER DRAWINGS.
  - E ABANDON EXISTING EMBEDDED STILLING WELLS AND ADD NEW STILLING WELL UPSTREAM OF FUDC INTAKE. RUN CONDUIT ON UNDERSIDE OF EXISTING HANDRAIL, PAINT CONDUIT TO MATCH HANDRAIL.
  - F ROUTE NEW AIR LINES AND CONDUIT ALONG EXISTING UTILITY ROUTING.
  - G MITIGATE LEAKAGE BY INSTALLATION OF MEMBRANE ON LEFT BANK AS SHOWN ON CIVIL DRAWINGS.
  - H ADD PLUNGE POOL DIRECTLY DOWNSTREAM OF MODIFIED SPILLWAY GATES PER CIVIL DRAWINGS.
  - I REMOVE UNIT HEATER AND WIRING TO PURGE VALVES IN VAULT. REPLACE TERMINALS FOR INSTRUMENTATION WITH WATERPROOF HEAT SHRINK SPLICES.

**REACH 2 DROP STRUCTURE 1 DESIGN MODIFICATION PLAN**

SCALE: 1" = 20'



REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



**WARNING**  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CITY OF BOISE  
 J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
 BOISE WHITEWATER PARK

REACH 2 DROP STRUCTURE 1  
 DESIGN MODIFICATION PLAN

DESIGNED J. BOAG  
 DRAWN R. WOOD  
 CHECKED M. McMILLEN  
 ISSUED DATE 9/10/24

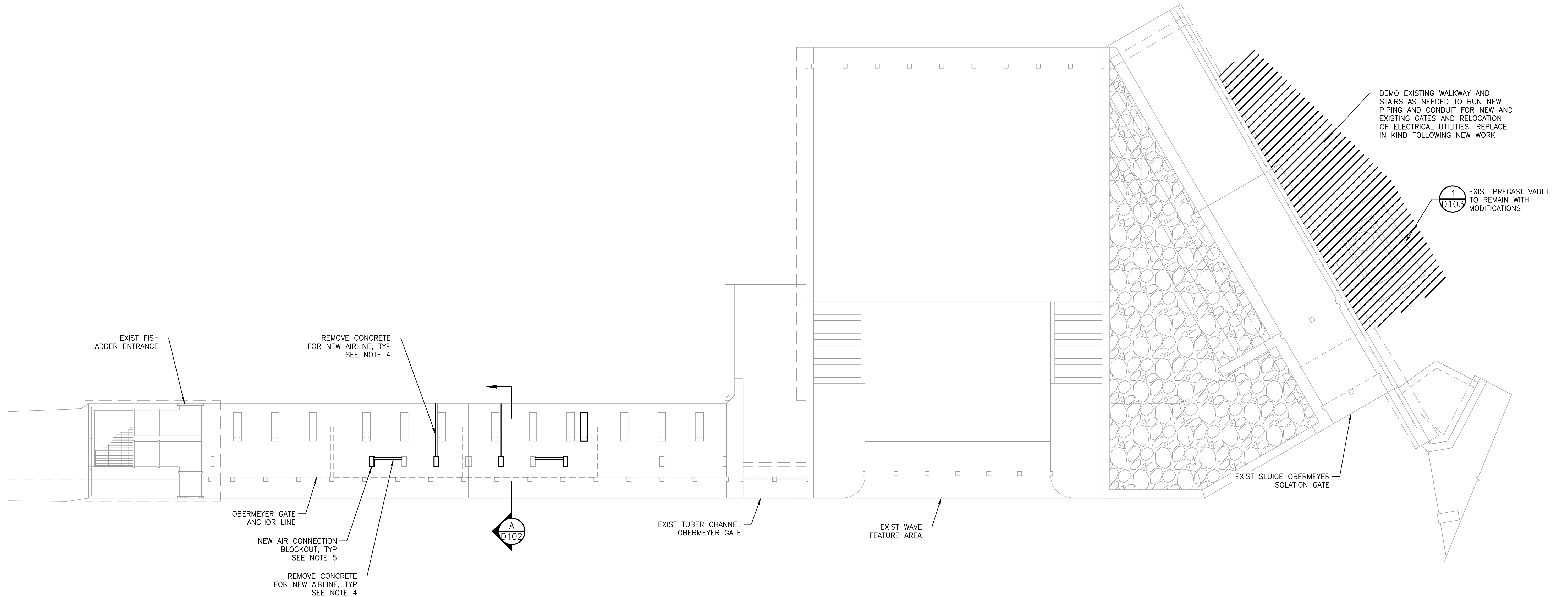
DRAWING  
**G005**  
 SHEET 5 OF 40  
 SCALE: AS NOTED

Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\G005.dwg Plot date: Sep 09, 2024 12:10pm  
 JOB NO. 13-108



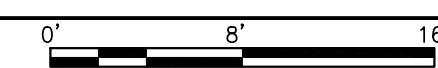
SHEET NOTES:

1. ALL AREAS OF CONCRETE DEMOLITION SHALL FIRST BE SAWCUT TO A DEPTH OF 3/4-INCH AROUND THE ENTIRE PERIMETER OF REMOVAL. DRILL CORNERS OF INTERSECTING SAWCUTS TO PREVENT OVERCUT.
2. CONCRETE REMOVAL WITHIN THE LIMITS OF THE SAWCUT MAY BE ACHIEVED THROUGH CHIPPING.
3. EXISTING REINFORCING SHALL NOT BE CUT OR REMOVED.
4. NEW AIRLINES SHALL BE CHIPPED OUT TO A DEPTH OF 2.5 INCHES.
5. NEW AIR CONNECTION BLOCKOUT SHALL BE CHIPPED OUT 6 INCHES.

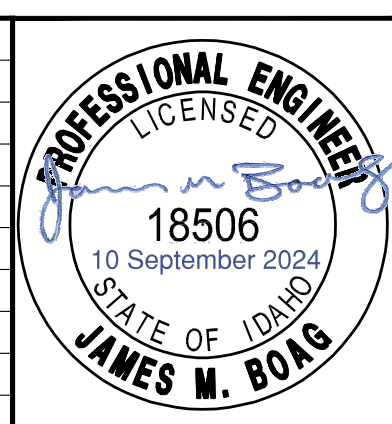


REACH 2 - DROP STRUCTURE 1 DEMOLITION PLAN

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



REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



WARNING  
 0 1/2 1  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CITY OF BOISE  
 J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
 BOISE WHITEWATER PARK

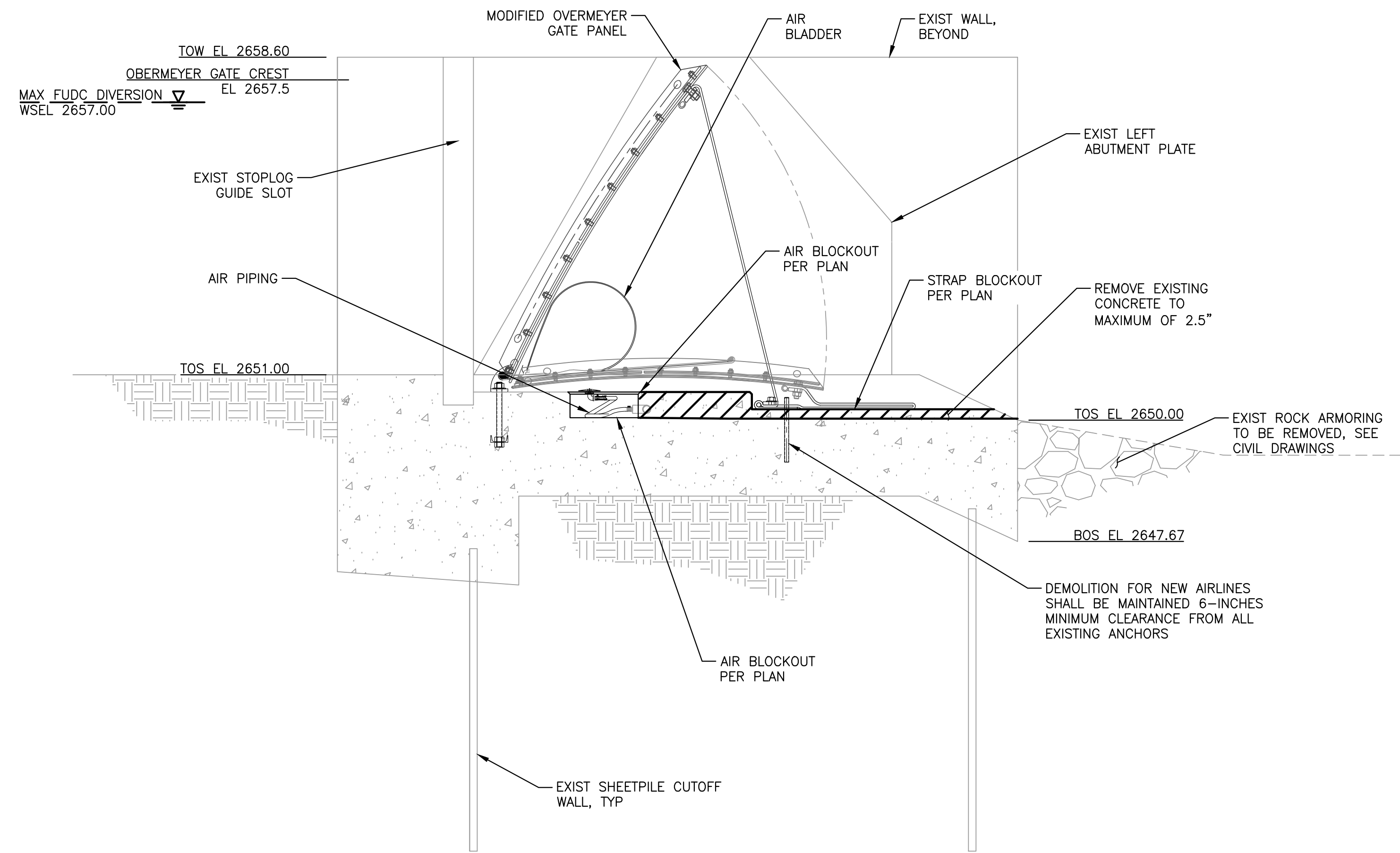
REACH 2 DROP STRUCTURE 1  
 DEMOLITION PLAN

DESIGNED B. BARRON  
 DRAWN R. WOOD  
 CHECKED M. MERKLEIN  
 ISSUED DATE 9/10/24

DRAWING  
**D101**  
 SHEET 6 OF 40  
 SCALE: AS NOTED

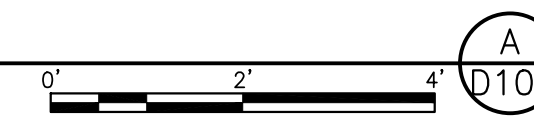
Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\101.dwg Plot date: Sep 09, 2024 12:10pm



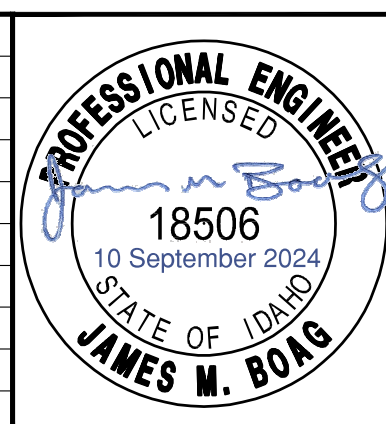


REACH 2 DROP STRUCTURE 1 SPILLWAY DEMOLITION SECTION

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



REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



WARNING  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CITY OF BOISE
J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION BOISE WHITEWATER PARK
REACH 2 DROP STRUCTURE 1 DEMOLITION SECTION

DESIGNED B. BARRON
DRAWN R. WOOD
CHECKED M. MERKLEIN
ISSUED DATE 9/10/24

DRAWING
<b>D102</b>
SHEET 7 OF 40
SCALE: AS NOTED

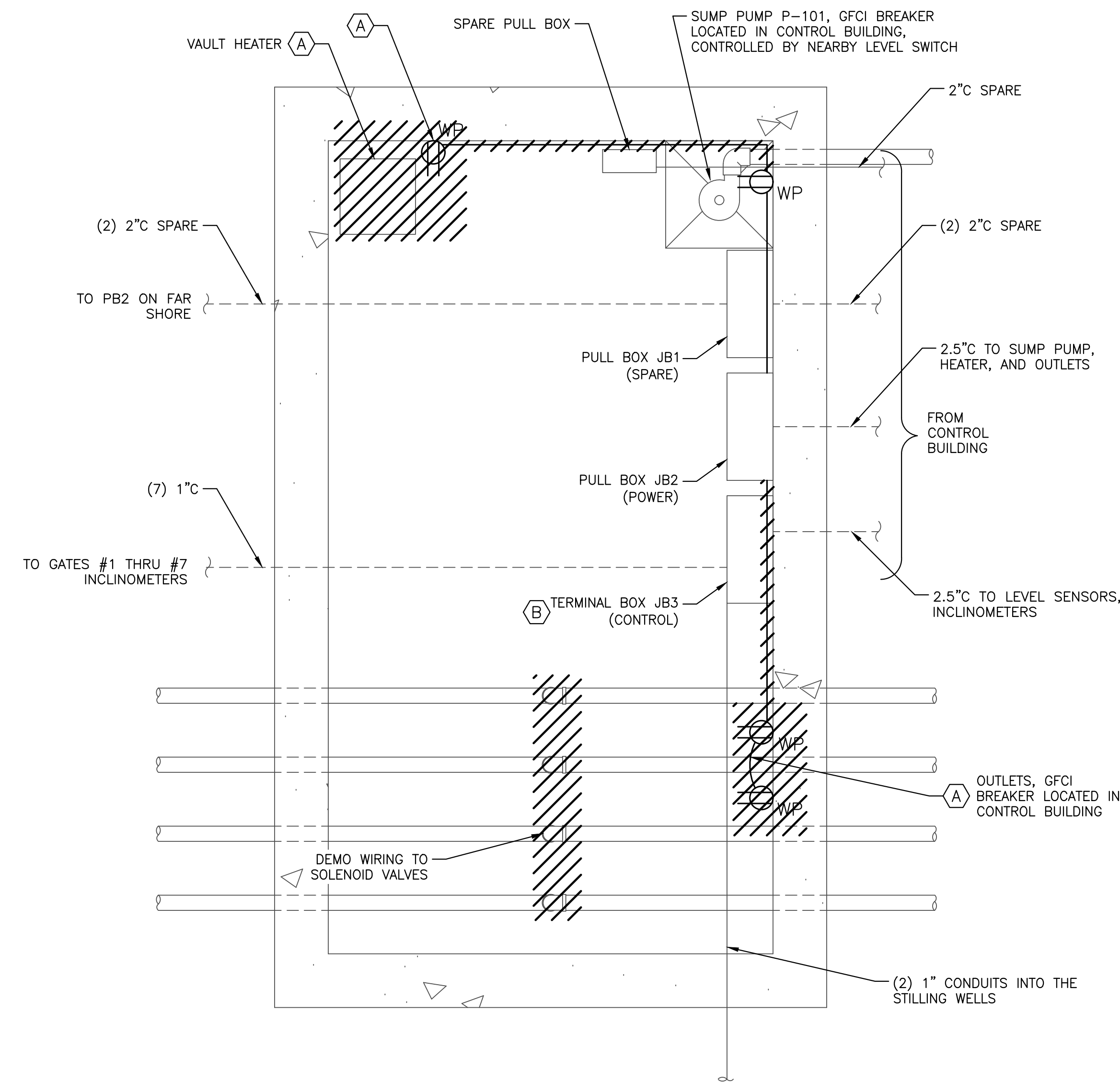


**SHEET GENERAL NOTES:**

1. DE-ENERGIZE, DISCONNECT, AND REMOVE ALL WIRING FROM CONTROL BUILDING TO VAULT FOR EQUIPMENT TO BE DEMOLISHED.
2. PRESERVE AND PROTECT ANY EQUIPMENT, PULL BOXES, OR CIRCUITS NOT SPECIFICALLY INDICATED FOR DEMOLITION. SEE ELECTRICAL DRAWINGS FOR MORE WORK IN THIS AREA.

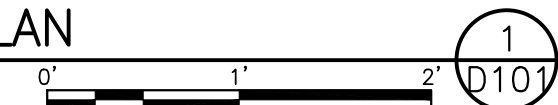
**SHEET KEY NOTES:**

- A DEMO INDICATED OUTLETS AND UNIT HEATER AND ASSOCIATED CONDUITS WITHIN VAULT.
- B DISCONNECT INCLINOMETER CABLES AND TAPE AND PRESERVE FOR SPLICING. DISCONNECT AND DEMO WIRING FROM LEVEL SENSORS. DEMO TERMINAL BLOCKS, DESICCANTS, AND DIN RAIL FROM JB3 AND CLEAN INTERIOR FOR REUSE.

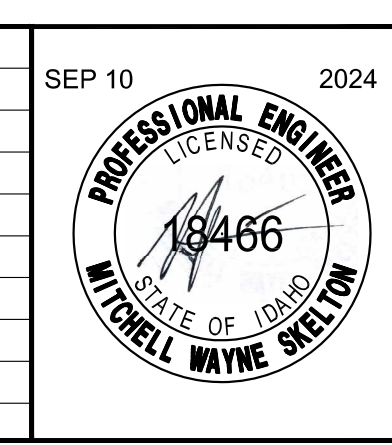


**AIRLINE VAULT DEMOLITION PLAN**

SCALE: 1" = 1'-0"



REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



**WARNING**  
 0 1/2 1  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CITY OF BOISE  
 J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
 BOISE WHITEWATER PARK

AIRLINE VAULT DEMOLITION  
 PLAN

DESIGNED M. SKELTON  
 DRAWN R. WOOD  
 CHECKED M. McMILLEN  
 ISSUED DATE 9/10/24

DRAWING  
**D103**  
 SHEET 8 OF 40  
 SCALE: AS NOTED

Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\10103.dwg Plot date: Sep 09, 2024 12:10pm

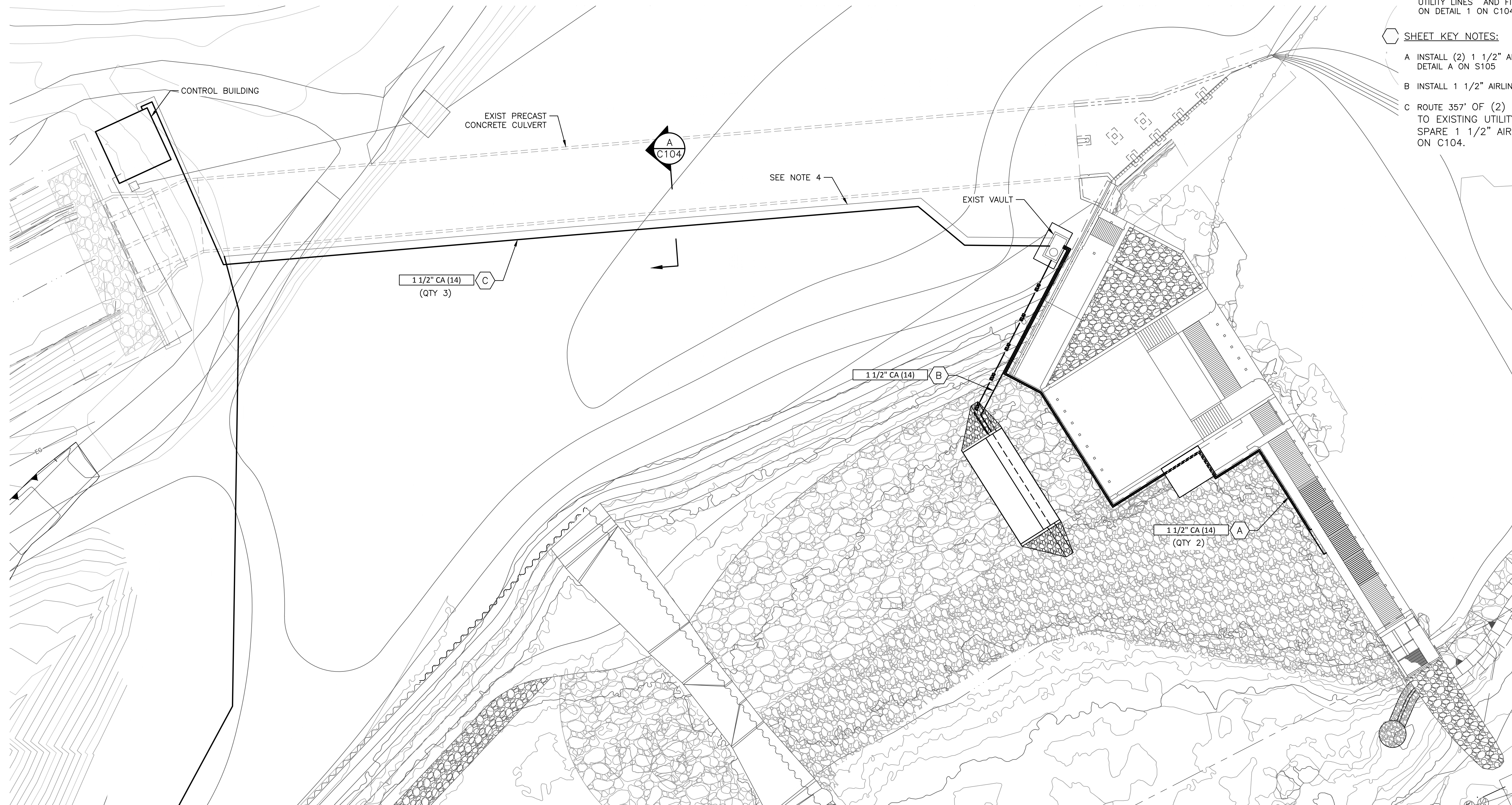


**SHEET NOTES:**

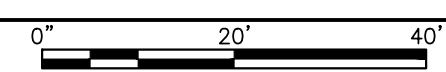
1. REFER TO GM001 FOR PIPE SCHEDULE.
2. REFER TO M101 FOR NEW AIRLINES ROUTING ALONG THE EXISTING DROP STRUCTURES.
3. REFER TO E104 FOR CONDUIT ROUTING PLAN.
4. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING UTILITY LINES AND FIELD FIT PROPOSED PIPING AS SHOWN ON DETAIL 1 ON C104.

**SHEET KEY NOTES:**

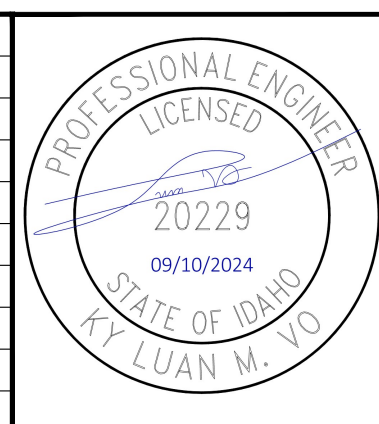
- A INSTALL (2) 1 1/2" AIRLINES AND ENCASE PER SECTION DETAIL A ON S105
- B INSTALL 1 1/2" AIRLINE
- C ROUTE 357' OF (2) 1 1/2" AIRLINES ADJACENT TO EXISTING UTILITY TRENCH AND CONNECT (1) SPARE 1 1/2" AIRLINE AS SHOWN ON DETAIL 1 ON C104.



**OVERALL CIVIL PLAN**  
SCALE: 1" = 20'



REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



**WARNING**  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CITY OF BOISE  
J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
BOISE WHITEWATER PARK

OVERALL CIVIL PLAN

DESIGNED K. VO  
DRAWN R. WOOD  
CHECKED M. McMILLEN  
ISSUED DATE 9/10/24

DRAWING  
**C101**  
SHEET 9 OF 40  
SCALE: AS NOTED

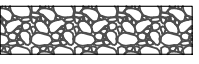
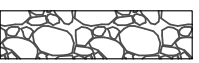
Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\C101.dwg Plot date: Sep 09, 2024 12:13pm

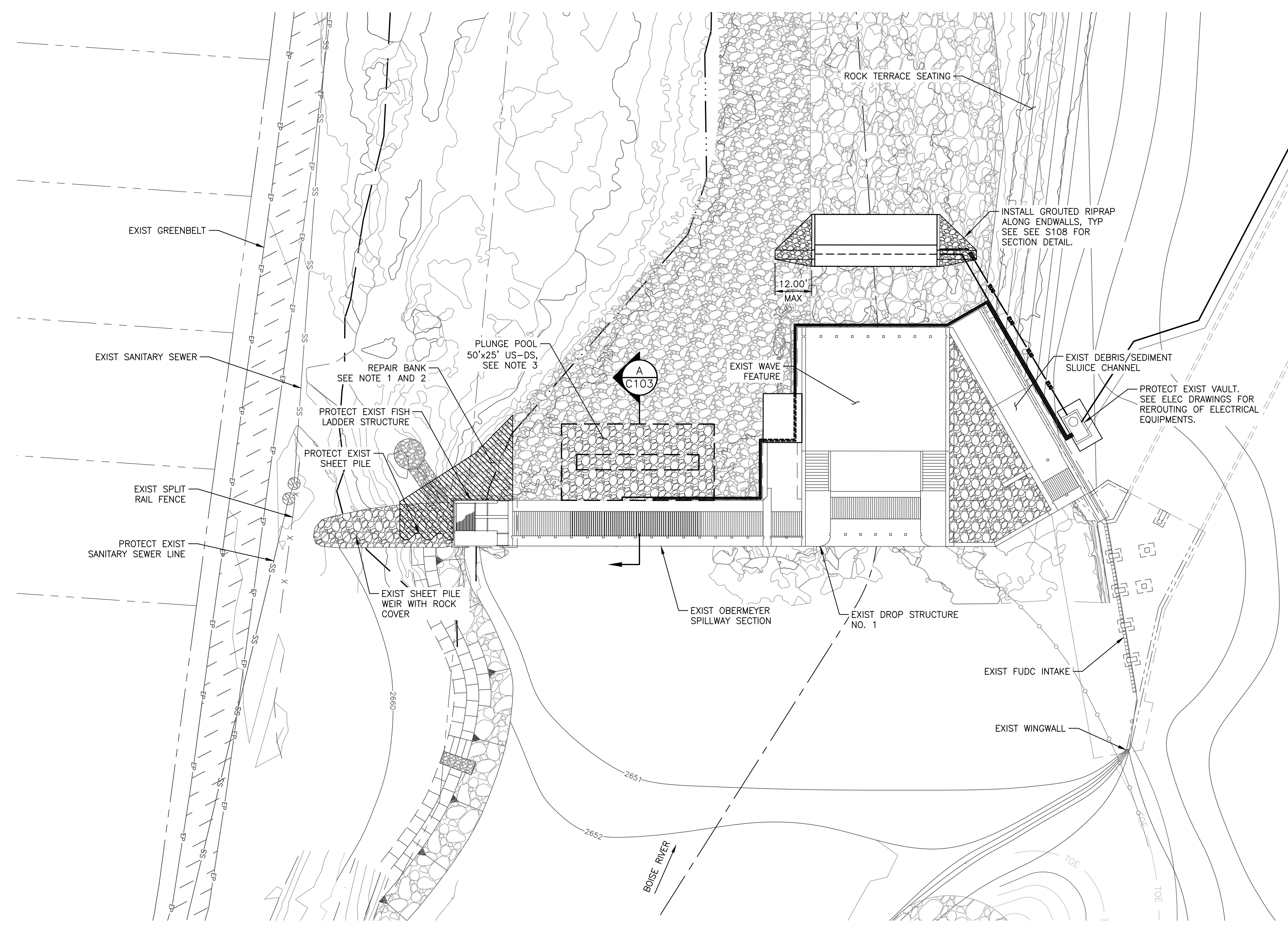


**SHEET NOTES:**

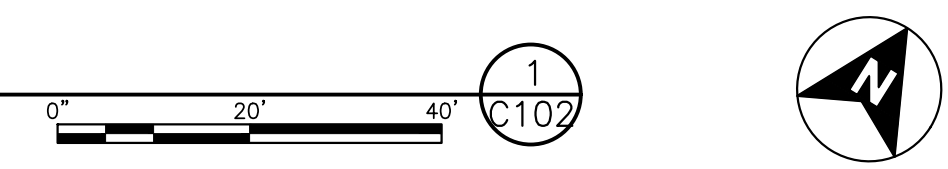
1. DEMOLISH AND REPLACE ROCK COVER, RIPRAP, AND PORTION OF GROUDED RIPRAP CHANNEL ALONG LEFT BANK BETWEEN THE EXISTING TREELINE TO THE EXISTING SHEET PILE FOR THE INSTALLATION OF THE GEOMEMBRANE LINER AND GROUDED RIPRAP.
2. FIELD FIT 40MIL LLDPE GEOMEMBRANE LINER AT A MINIMUM DEPTH OF 6 FT FROM EXISTING GRADE. BACKFILL WITH RIPRAP IN-KIND AND RECONSTRUCT GROUDED RIPRAP CHANNEL IN-KIND. RIPRAP SHALL BE GROUDED AND GRINDED FOR A SMOOTH FINISH.
3. EXCAVATE APPROXIMATELY 412 CYD, INCLUDING OVEREXCAVATION, FOR PLUNGE POOL. POOL SHALL BE CENTERED ALONG MODIFIED GATES. SEE SECTION ON C103 FOR PLUNGE POOL AND BACKFILL DETAILS.

**LEGEND:**

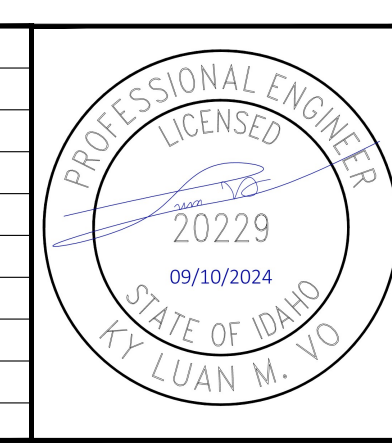
-  EXIST RIPRAP, D<sub>50</sub>=3'φ
-  EXIST RIPRAP, D<sub>50</sub>=5'φ



**REACH 2 – DROP STRUCTURE 1 CIVIL PLAN**  
SCALE: 1" = 20'



REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



**WARNING**  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CITY OF BOISE  
J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
BOISE WHITEWATER PARK

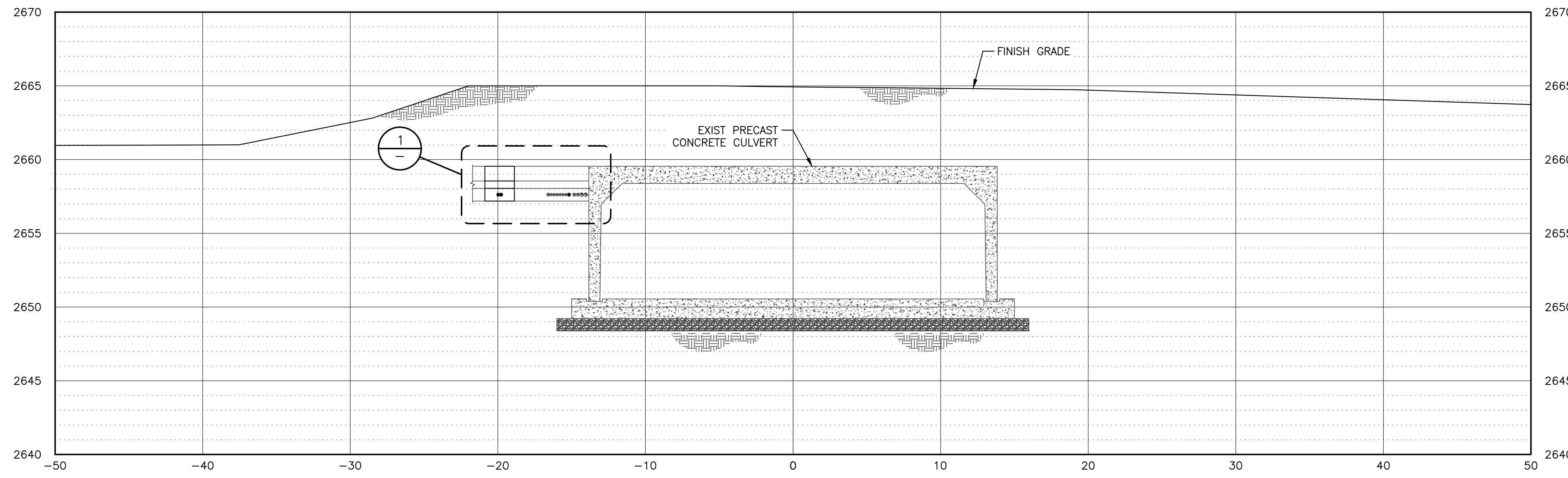
REACH 2 DROP STRUCTURE 1  
CIVIL PLAN

DESIGNED K. VO  
DRAWN R. WOOD  
CHECKED M. McMILLEN  
ISSUED DATE 9/10/24

DRAWING  
**C102**  
SHEET 10 OF 40  
SCALE: AS NOTED

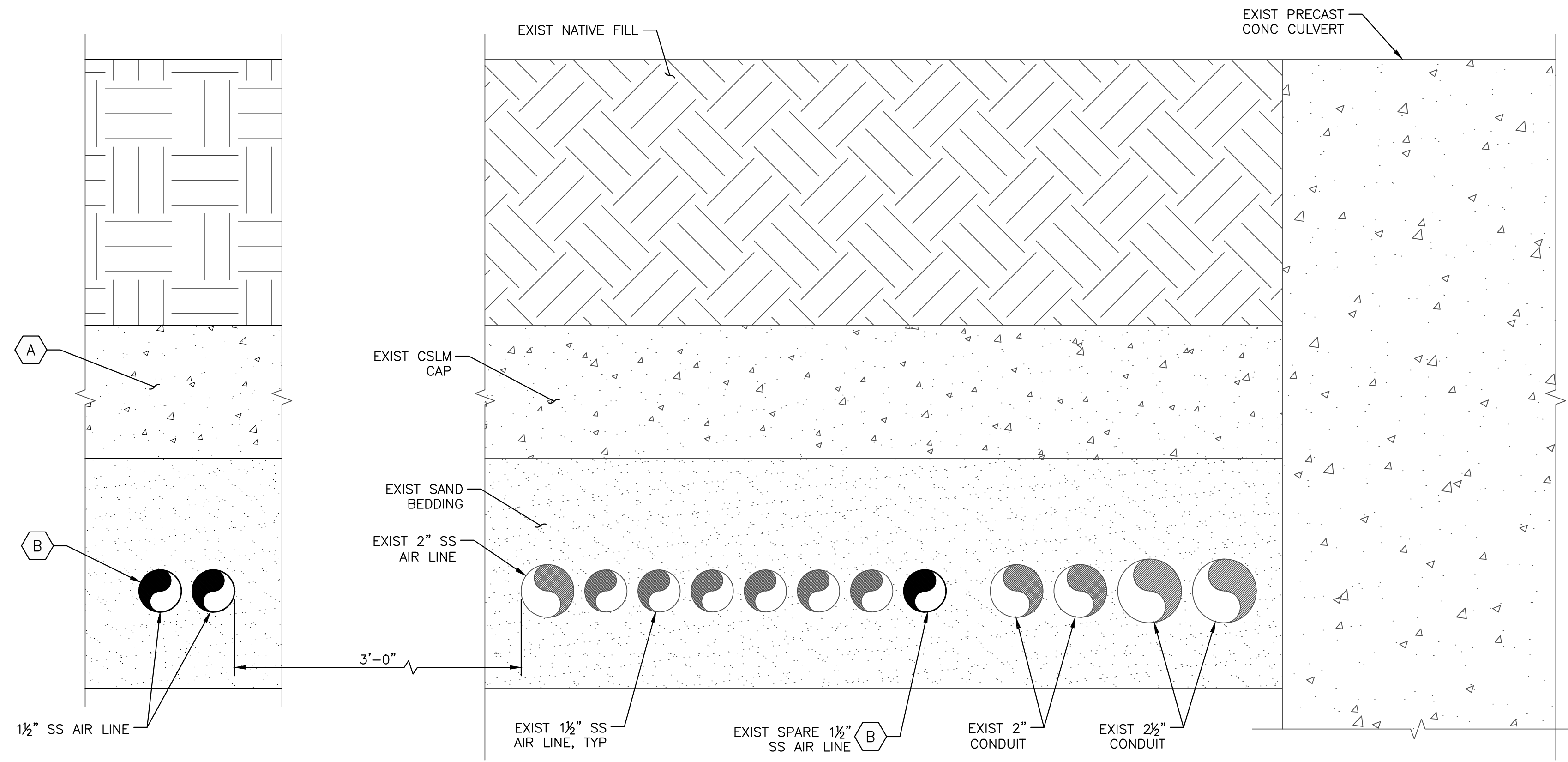
Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\C102.dwg Plot date: Sep 09, 2024 12:13pm





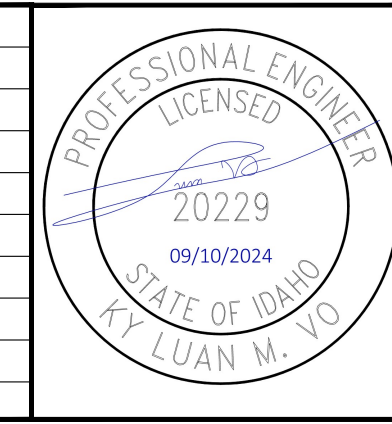
**BARRIER PIPING ALONG EXIST CULVERT SECTION**  
 SCALE: 1" = 5'  
 0" 5' 10" A  
C101

- SHEET NOTES:**
- SLOPE COMPRESSED AIR LINES AT 1"/100' MINIMUM PER MANUFACTURER'S RECOMMENDATIONS.
- SHEET KEY NOTES:**
- A INSTALL AND EXTEND EXISTING CSLM CAP IN-KIND TO INCLUDE TWO ADDITIONAL AIRLINES.
  - B INSTALL (2) 1 1/2" AIR LINES AND REPLACE SPARE 1 1/2" AIRLINE WITH NEW AIR LINE.



**DETAIL**  
 SCALE: 3" = 1'-0"  
 0" 4" 8" 1

REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



**WARNING**  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CITY OF BOISE  
 J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
 BOISE WHITEWATER PARK

BARRIER PIPING ALONG  
 CULVERT SECTION

DESIGNED K. VO  
 DRAWN R. WOOD  
 CHECKED M. McMILLEN  
 ISSUED DATE 9/10/24

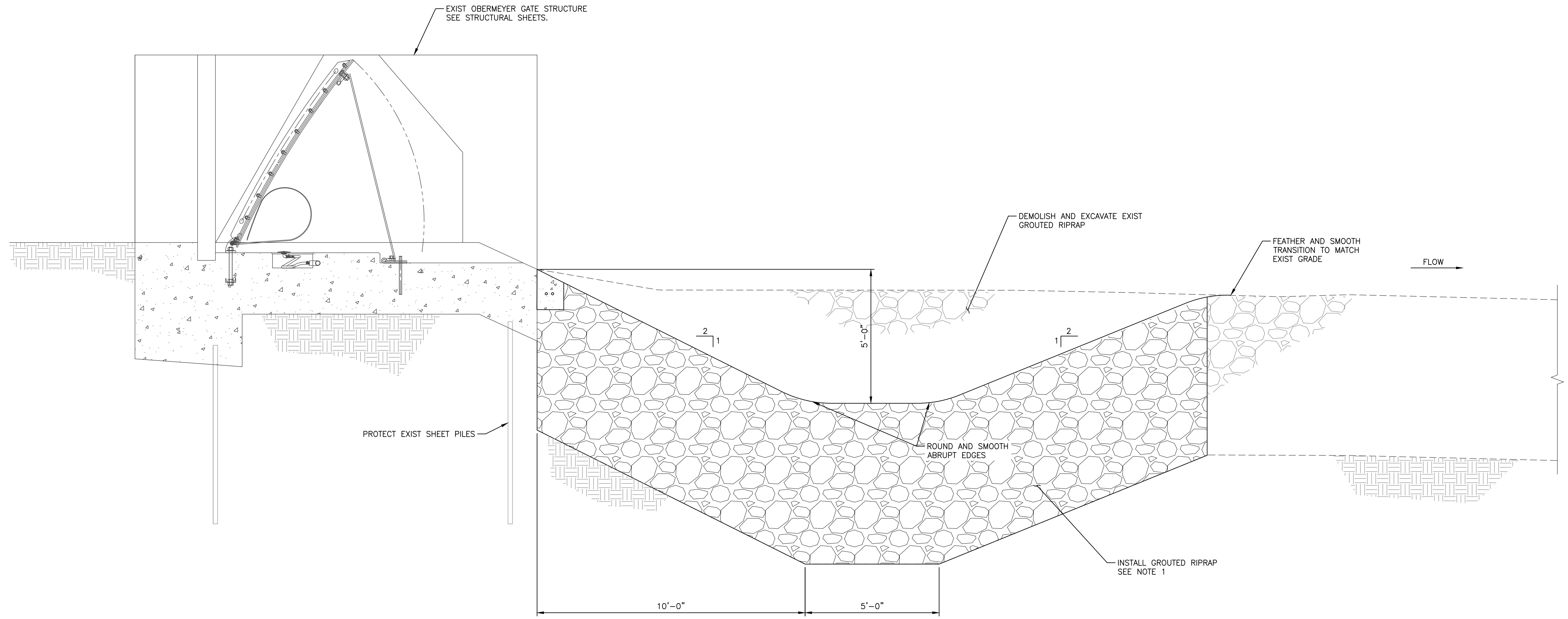
DRAWING  
**C104**  
 SHEET 12 OF 40  
 SCALE: AS NOTED

Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\C104.dwg Plot date: Sep 09, 2024 12:13pm



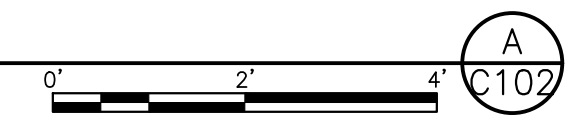
**SHEET NOTES:**

1. PLACE RIPRAP D50 = 3 FT AND GROUT TO MATCH EXIST. SEE SPECS FOR RIPRAP MATERIAL AND GROUTING METHOD. GROUTED RIPRAP SHALL BE GRINDED FOR A SMOOTH FINISH.

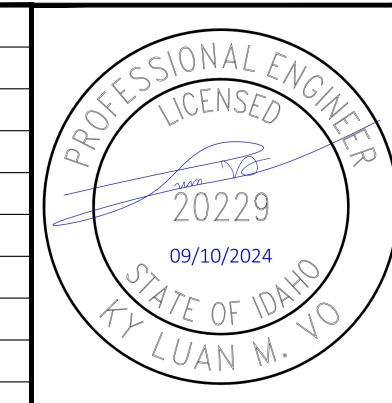


**PLUNGE POOL SECTION**

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



REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



**WARNING**  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CITY OF BOISE
J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION BOISE WHITEWATER PARK
PLUNGE POOL SECTION

DESIGNED K. VO
DRAWN R. WOOD
CHECKED M. McMILLEN
ISSUED DATE 9/10/24

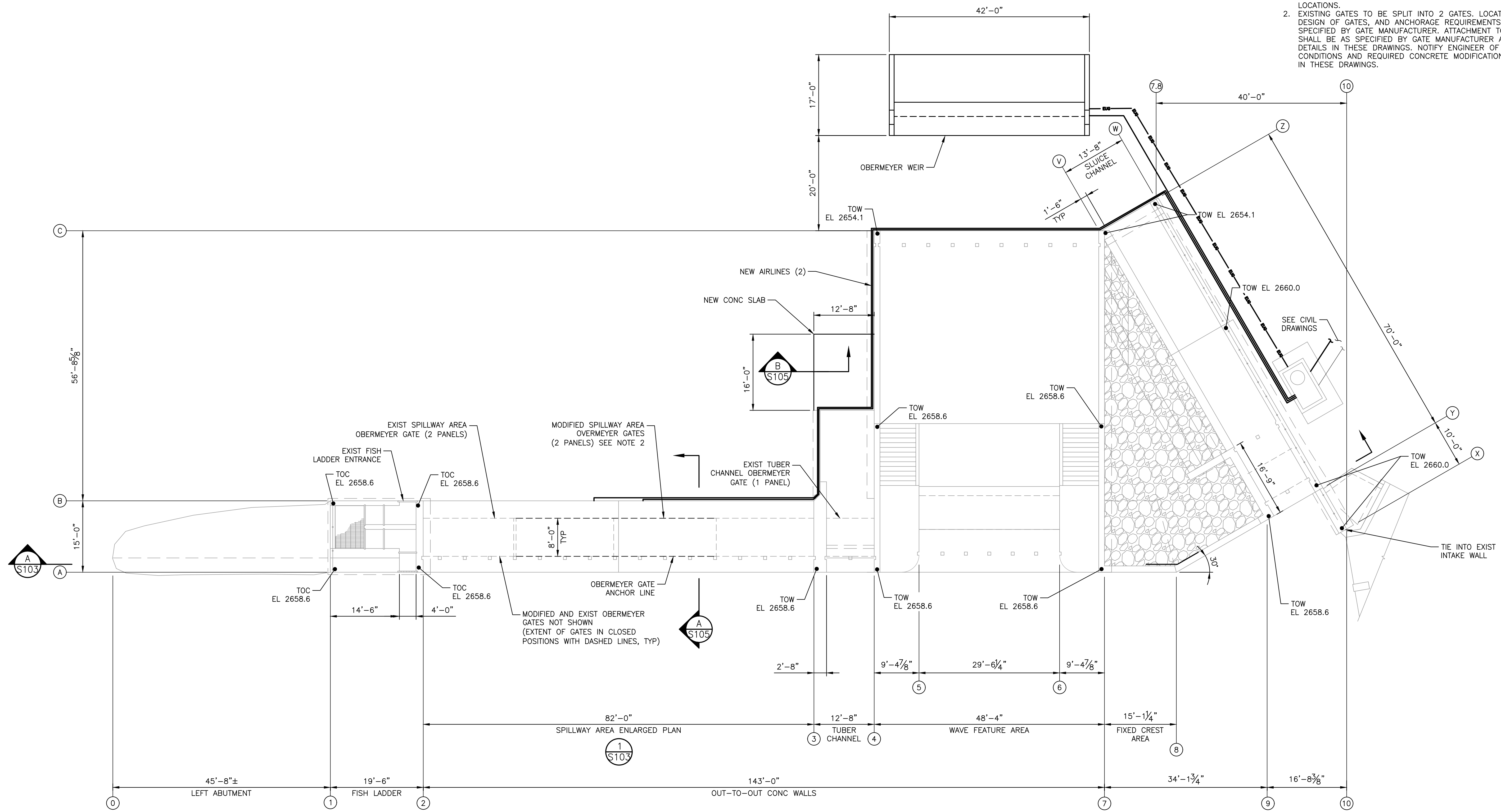
DRAWING
<b>C103</b>
SHEET 11 OF 40
SCALE: AS NOTED

Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\C103.dwg Plot date: Sep 09, 2024 12:13pm



SHEET NOTES:

1. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR CONDUIT LOCATIONS.
2. EXISTING GATES TO BE SPLIT INTO 2 GATES. LOCATION OF SPLIT, DESIGN OF GATES, AND ANCHORAGE REQUIREMENTS SHALL BE AS SPECIFIED BY GATE MANUFACTURER. ATTACHMENT TO CONCRETE SHALL BE AS SPECIFIED BY GATE MANUFACTURER AND THE DETAILS IN THESE DRAWINGS. NOTIFY ENGINEER OF ANY CHANGED CONDITIONS AND REQUIRED CONCRETE MODIFICATIONS NOT SHOWN IN THESE DRAWINGS.



REACH 2 - DROP STRUCTURE 1 TOP PLAN

SCALE: 3/32" = 1'-0"

REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



WARNING  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CITY OF BOISE	
J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION BOISE WHITEWATER PARK	
REACH 2 DROP STRUCTURE 1 TOP PLAN	

DESIGNED	M. MERKLEIN
DRAWN	R. WOOD
CHECKED	M. MERKLEIN
ISSUED DATE	9/10/24

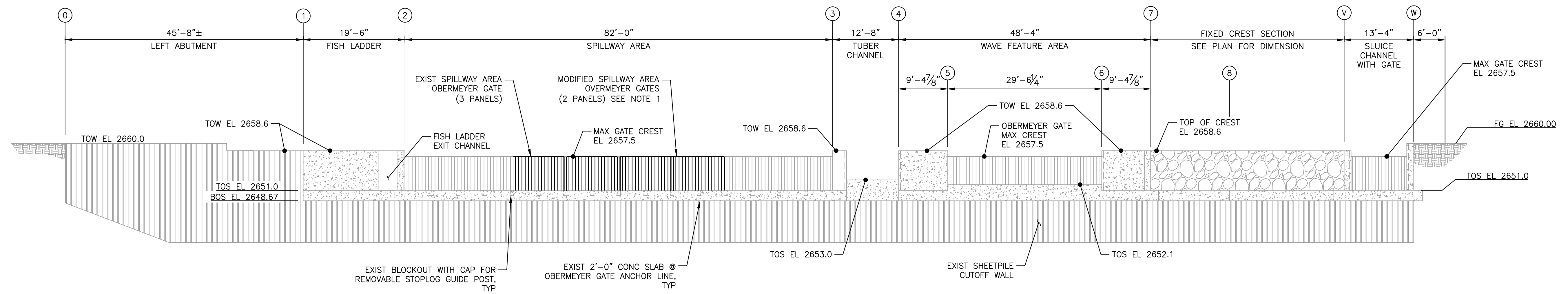
DRAWING	S102
SHEET	13 OF 40
SCALE:	AS NOTED

Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\S102.dwg Plot date: Sep 09, 2024 12:13pm



SHEET NOTES:

- EXISTING GATE TO BE SPLIT INTO 2 GATES. LOCATION OF SPLIT, DESIGN OF GATES, AND ANCHORAGE REQUIREMENTS SHALL BE AS SPECIFIED BY GATE MANUFACTURER. ATTACHMENT TO CONCRETE SHALL BE AS SPECIFIED BY GATE MANUFACTURER AND THE DETAILS IN THESE DRAWINGS. NOTIFY ENGINEER OF ANY CHANGED CONDITIONS AND REQUIRED CONCRETE MODIFICATIONS NOT SHOWN IN THESE DRAWINGS.



REACH 2 - DROP STRUCTURE 1 SECTION

SCALE: 3/32" = 1'-0"



REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



WARNING  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CITY OF BOISE
J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION BOISE WHITEWATER PARK
REACH 2 DROP STRUCTURE 1 SECTION

DESIGNED M. MERKLEIN
DRAWN R. WOOD
CHECKED M. MERKLEIN
ISSUED DATE 9/10/24

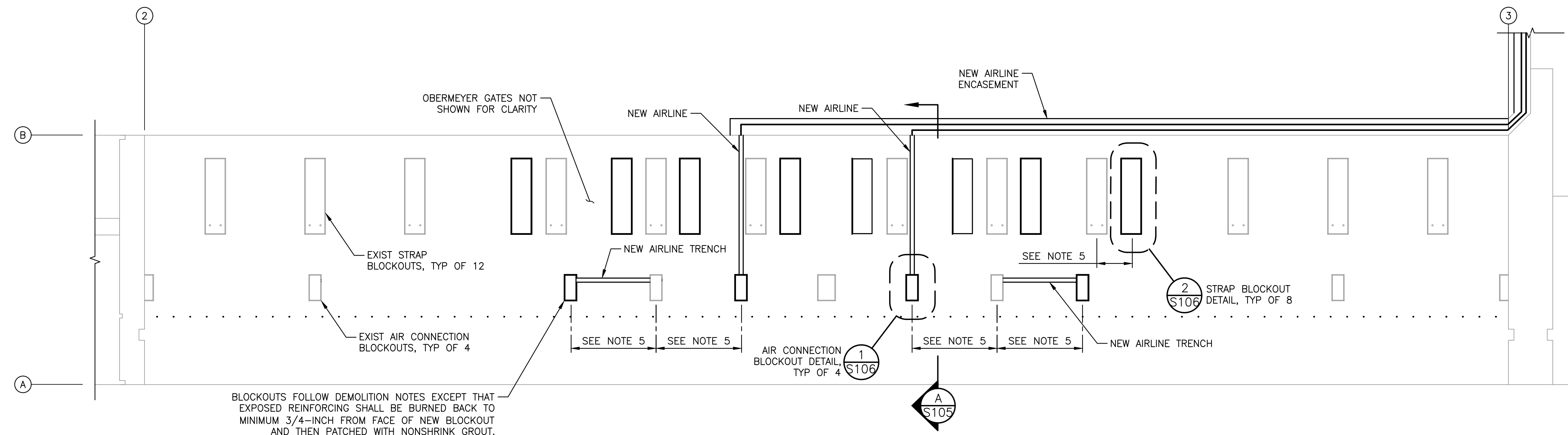
DRAWING
<b>S103</b>
SHEET 14 OF 40
SCALE: AS NOTED

Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\S103.dwg Plot date: Sep 09, 2024 12:14pm



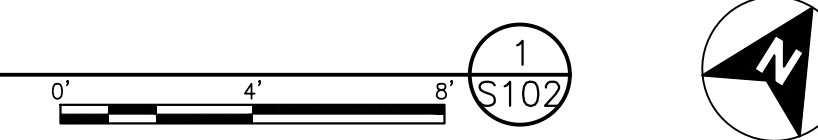
SHEET NOTES:

1. ALL NEW AIRLINES SHALL BE ENCASED IN A NON-SHRINK GROUT.
  - A. PRIOR TO GROUTING ANCHOR AIRLINES AT MINIMUM 2'-0" SPACING,
  - B. ENSURE EXISTING CONCRETE IS ROUGHENED TO 1/4-INCH AMPLITUDE.
  - C. APPLY BONDING AGENT TO CONCRETE.
  - D. PLACE NONSHRINK EPOXY GROUT TO ENCASE NEW AIRLINES AND COVER NEW AIRLINES WITH MINIMUM 3/4" OF COVER.



REACH 2 DROP STRUCTURE 1 SPILLWAY – GATE BLOCKOUTS AND ANCHOR PLAN

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



REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



WARNING  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



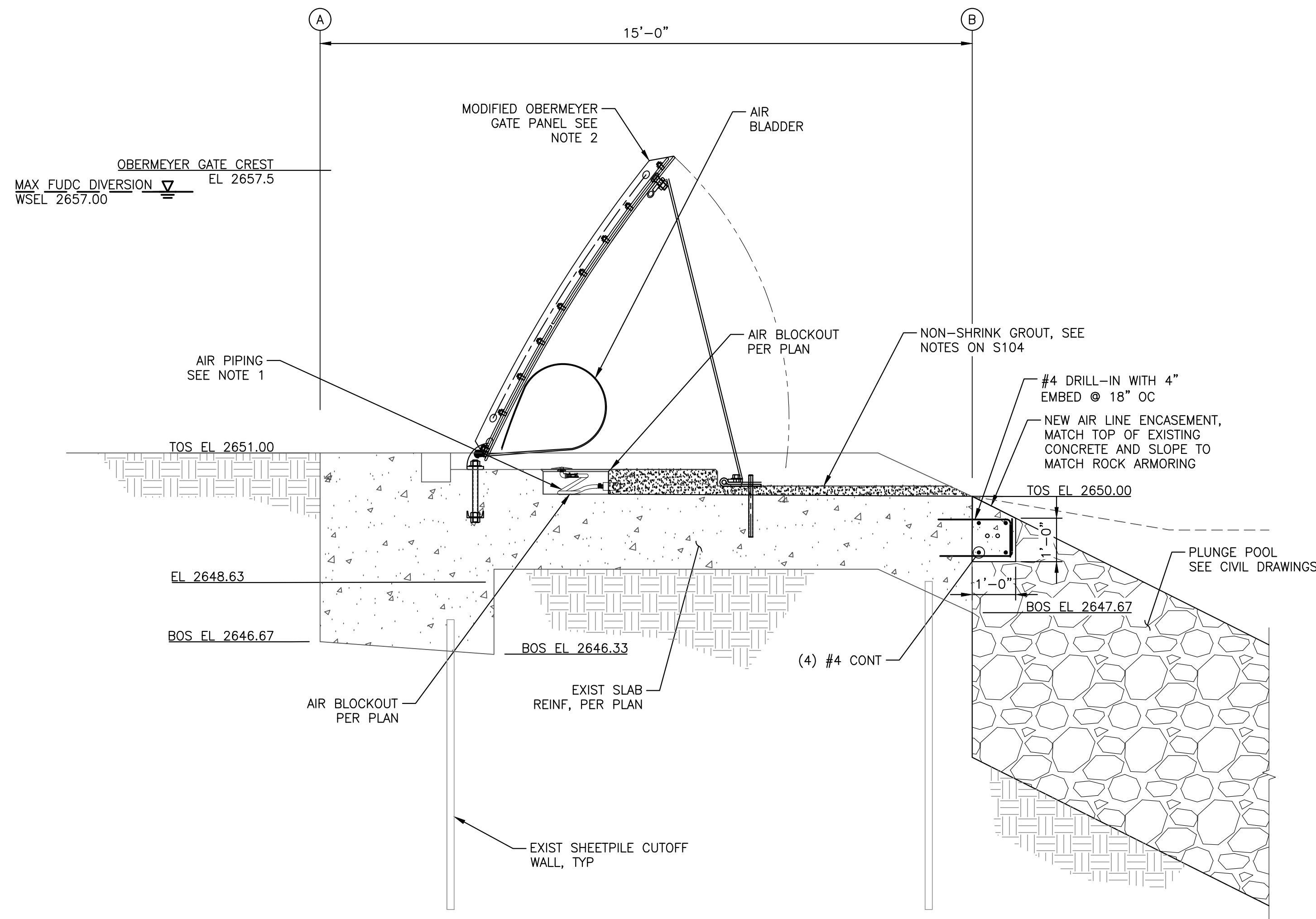
CITY OF BOISE J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION BOISE WHITEWATER PARK	DESIGNED M. MERKLEIN DRAWN R. WOOD CHECKED M. MERKLEIN ISSUED DATE 9/10/24
REACH 2 DROP STRUCTURE 1 SPILLWAY PLAN	

DRAWING	S104
SHEET 15 OF 40	SCALE: AS NOTED



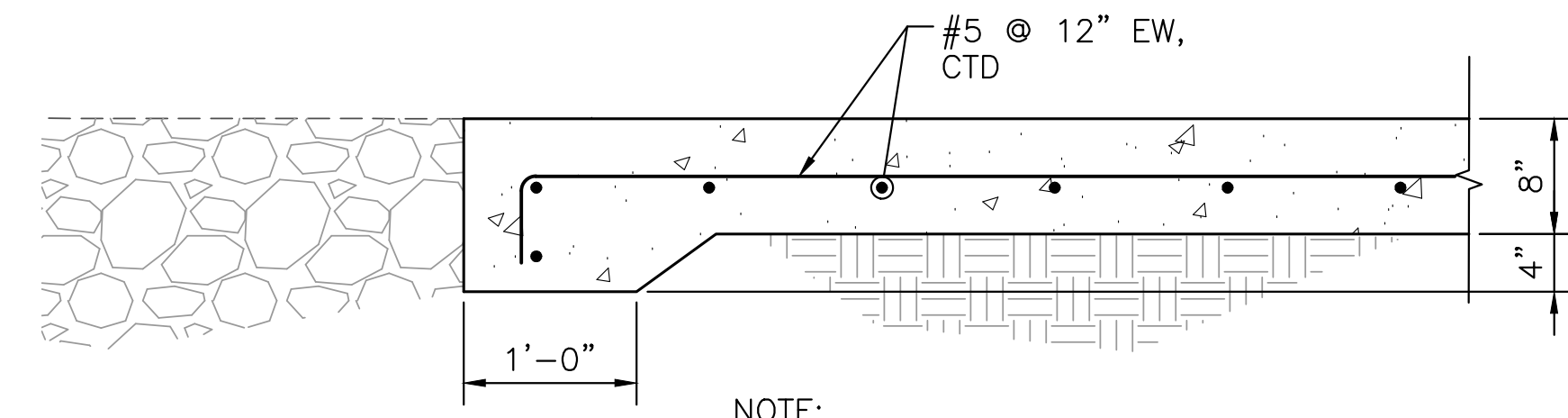
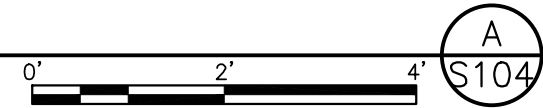
**SHEET NOTES:**

1. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR FIBER OPTIC AND OBERMEYER GATE CONDUIT REQUIREMENTS.
2. EXISTING GATE TO BE SPLIT INTO 2 GATES. LOCATION OF SPLIT, DESIGN OF GATES, AND ANCHORAGE REQUIREMENTS SHALL BE AS SPECIFIED BY GATE MANUFACTURER. ATTACHMENT TO CONCRETE SHALL BE AS SPECIFIED BY GATE MANUFACTURER AND THE DETAILS IN THESE DRAWINGS. NOTIFY ENGINEER OF ANY CHANGED CONDITIONS AND REQUIRED CONCRETE MODIFICATIONS NOT SHOWN IN THESE DRAWINGS.



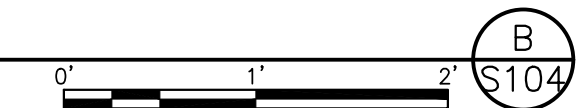
**SECTION**

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



**SECTION**

SCALE: 1" = 1'-0"



REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



**WARNING**

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



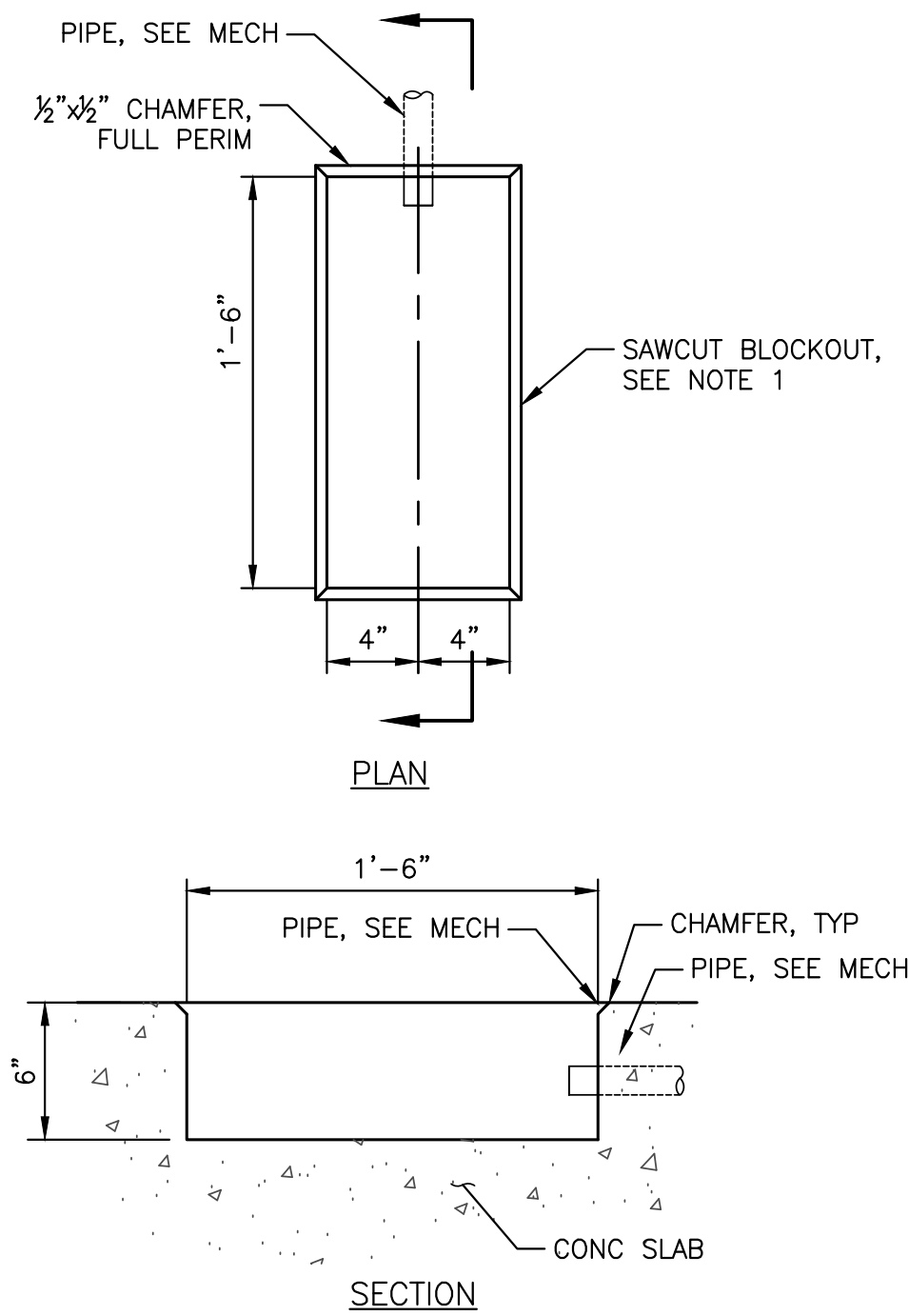
CITY OF BOISE	
J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION BOISE WHITEWATER PARK	
REACH 2 DROP STRUCTURE 1 SPILLWAY SECTION	

DESIGNED	M. MERKLEIN
DRAWN	R. WOOD
CHECKED	M. MERKLEIN
ISSUED DATE	9/10/24

DRAWING	<b>S105</b>
SHEET	16 OF 40
SCALE:	AS NOTED

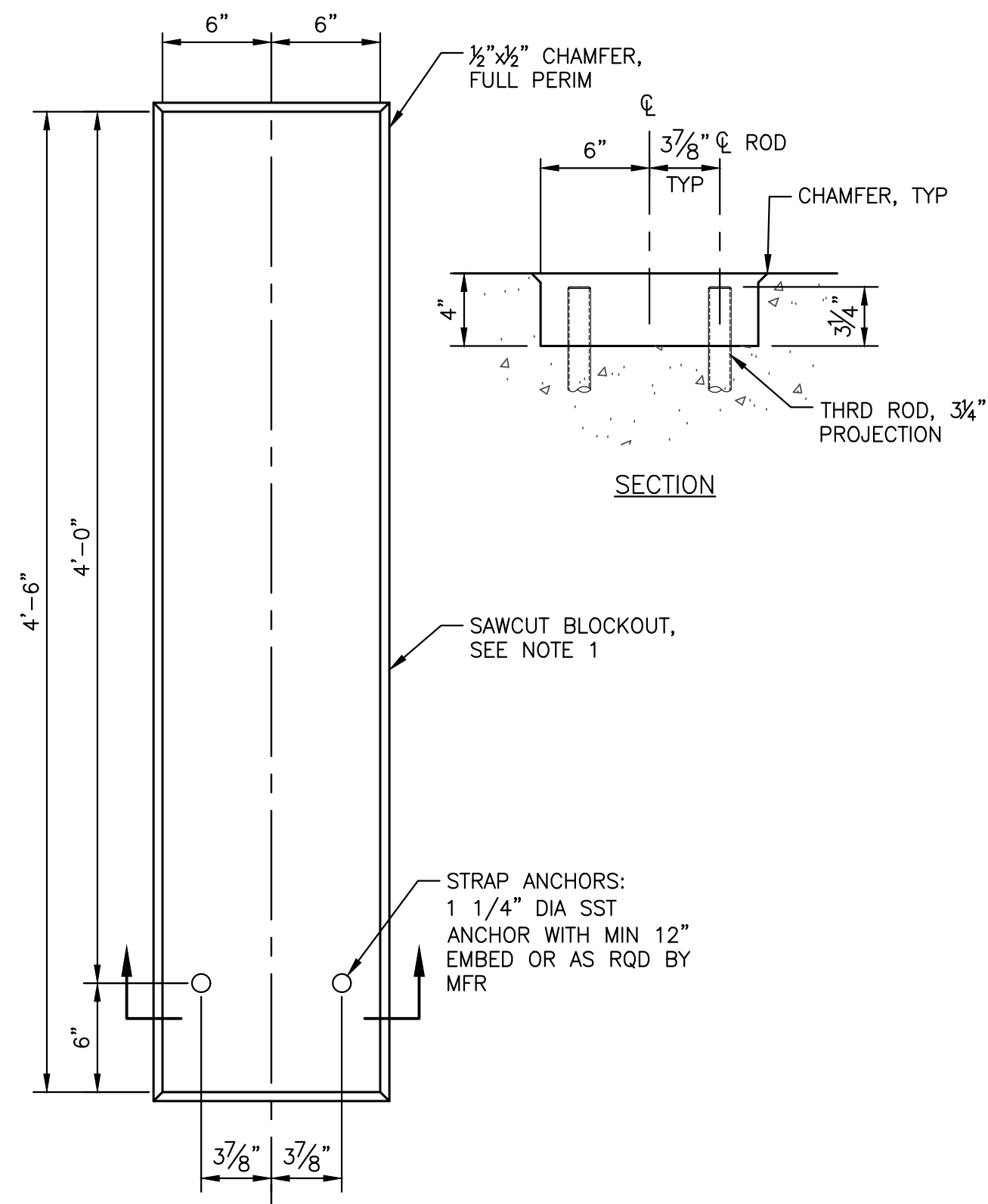
Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\S105.dwg Plot date: Sep 09, 2024 12:14pm





AIR CONNECTION BLOCKOUT DETAIL

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



STRAP BLOCKOUT DETAIL


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

SHEET NOTES:

1. SAWCUT BLOCKOUTS WITH 1/2"x1/2" CHAMFER. SAWCUT FINISH SHALL BE SMOOTH AND FLAT WITHIN +/- 0.125". APPLY XYPEX CONCENTRATE CONCRETE WATERPROOFING COATING OR APPROVED EQUAL TO ALL SAWCUT SURFACES. BURN BACK REINFORCEMENT 1.5" FROM SURFACE OF SAWCUT AND PATCH HOLES WITH NON SHRINK GROUT.
2. CORE DRILL BLOCKOUT CORNERS TO PREVENT OVERCUT, OR PATCH OVERCUT WITH NONSHRINK GROUT.
3. STRAP ANCHORS SHALL BE SST HILTI HAS THREADED ROD WITH RE 500 V3 EPOXY OR APPROVED EQUAL.

REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



WARNING  
  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

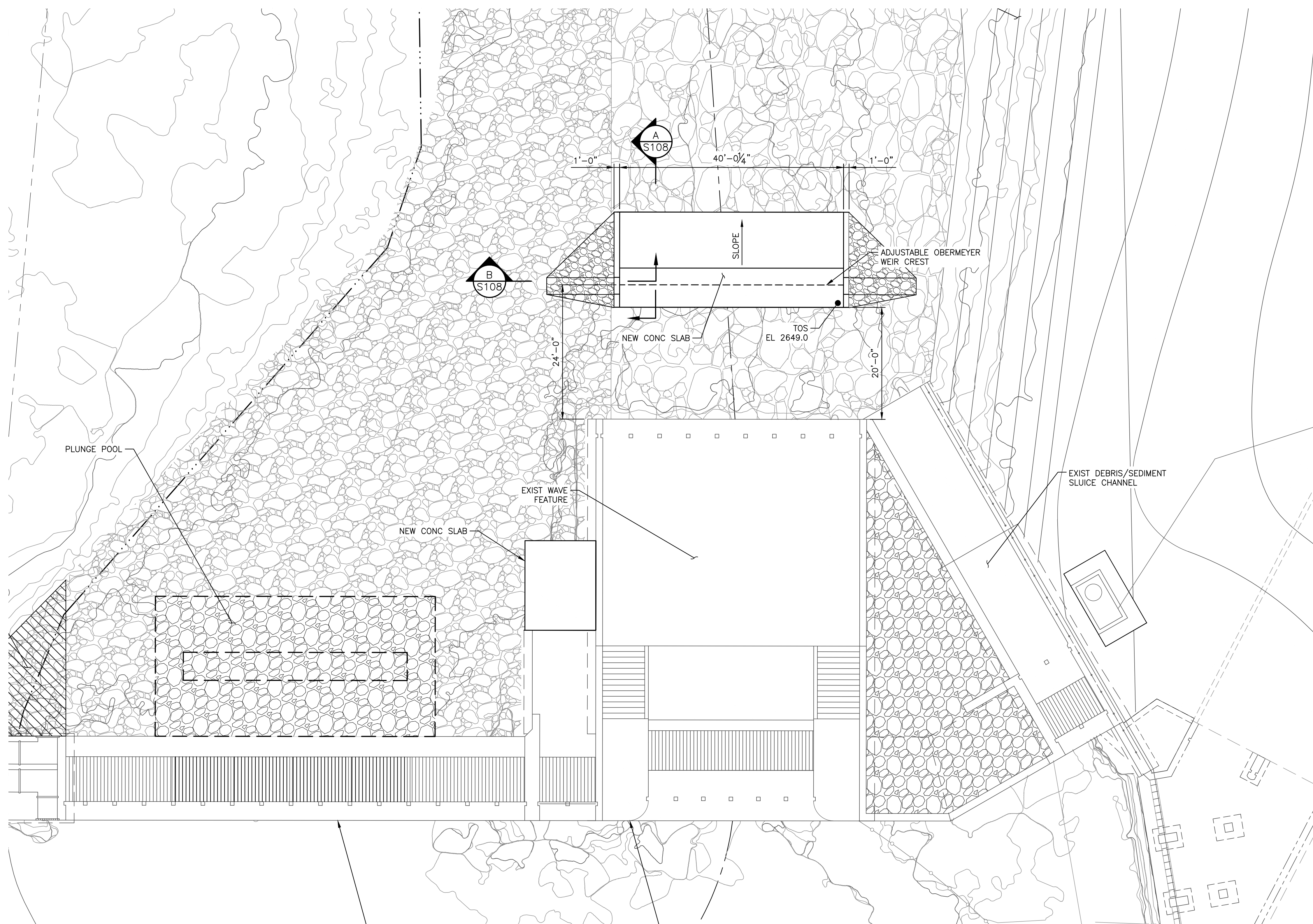


CITY OF BOISE	
J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION BOISE WHITEWATER PARK	
BLOCKOUT DETAILS	

DESIGNED	M. MERKLEIN
DRAWN	R. WOOD
CHECKED	M. MERKLEIN
ISSUED DATE	9/10/24

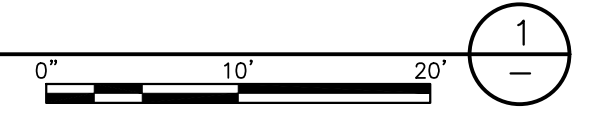
DRAWING	<b>S106</b>
SHEET	17 OF 40
SCALE:	AS NOTED





ADJUSTABLE WEIR SLAB FOUNDATION PLAN

SCALE: 1" = 10'



REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



WARNING  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



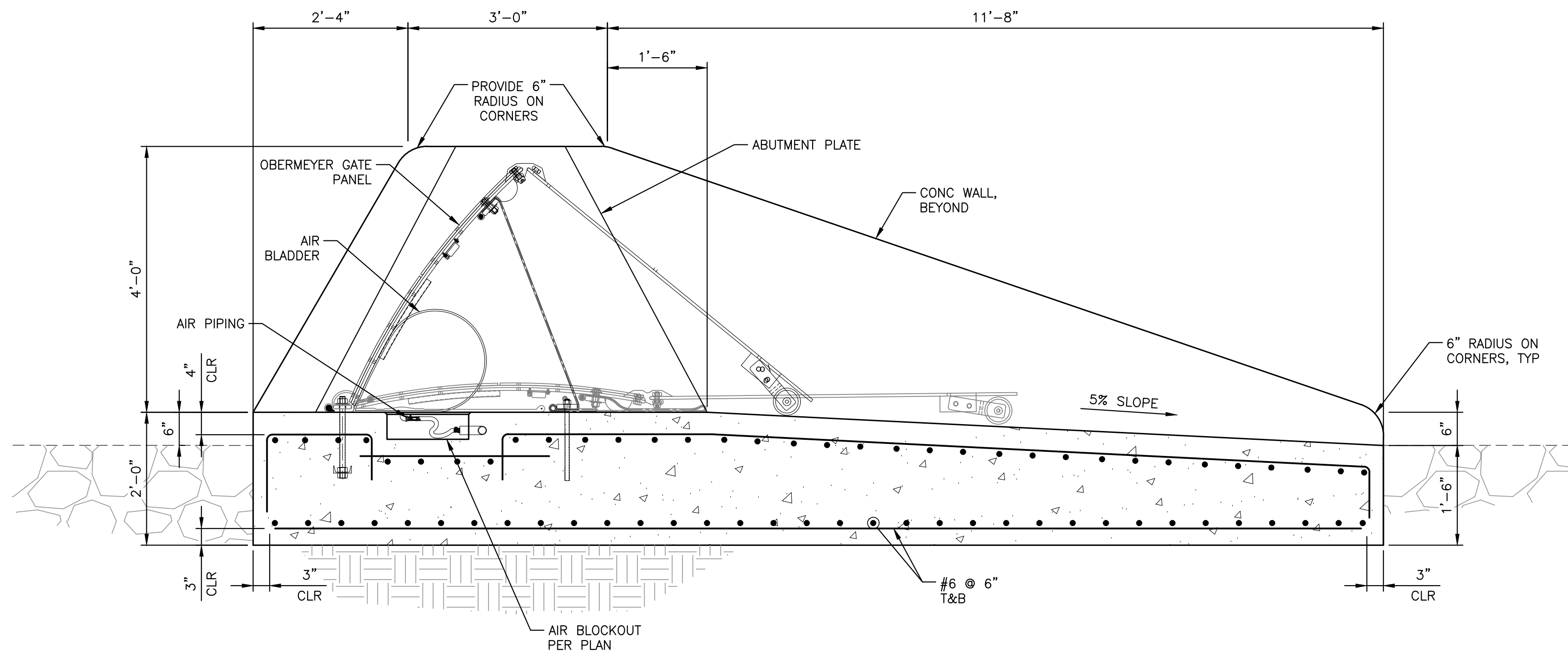
CITY OF BOISE J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION BOISE WHITEWATER PARK
ADJUSTABLE WEIR SLAB FOUNDATION PLAN

DESIGNED M. MERKLEIN
DRAWN R. WOOD
CHECKED M. McMILLEN
ISSUED DATE 9/10/24

DRAWING
<b>S107</b>
SHEET 18 OF 40
SCALE: AS NOTED

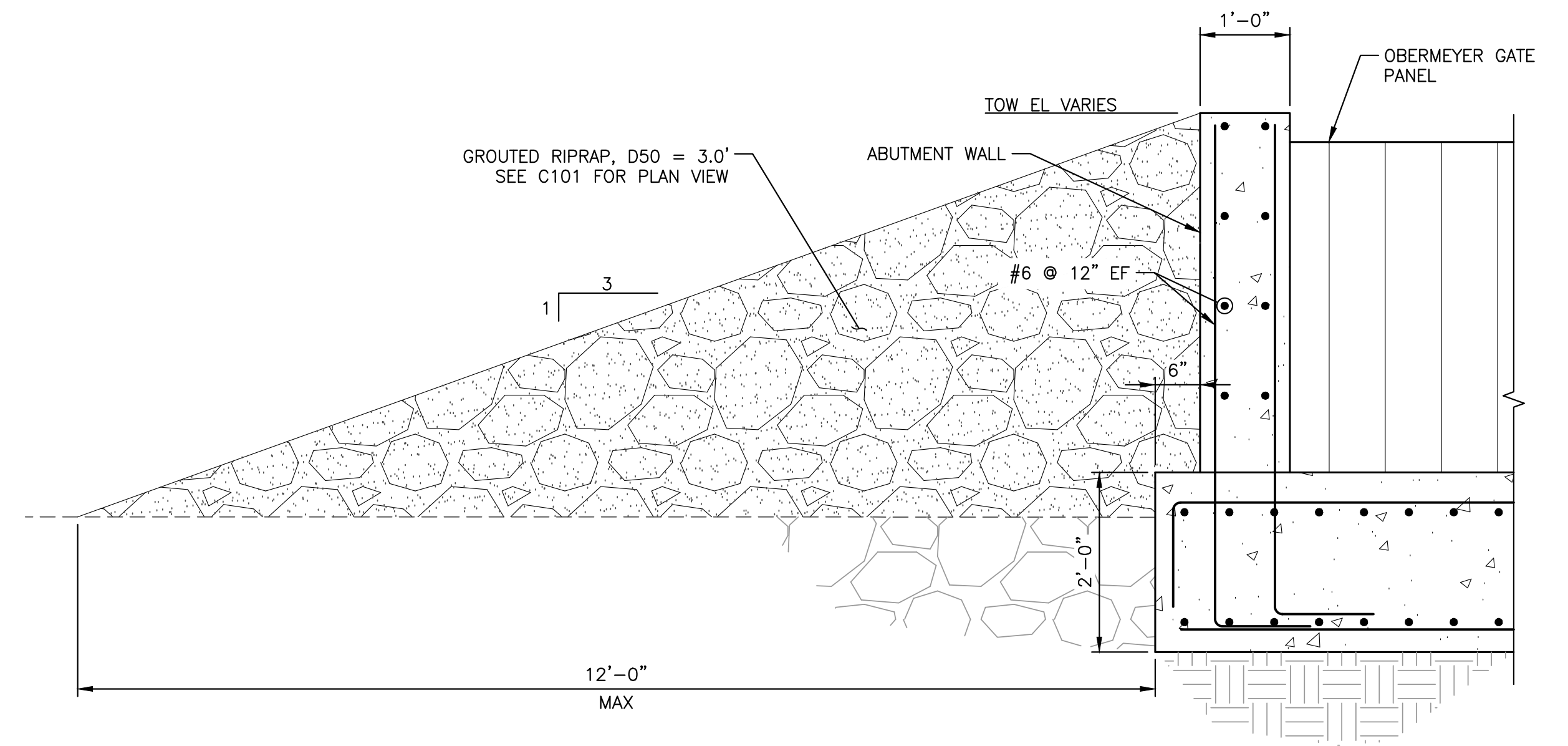
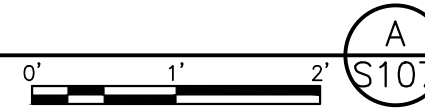
Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\S107.dwg Plot date: Sep 09, 2024 12:15pm  
 JOB NO. 13-108





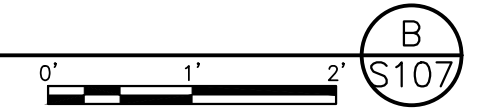
ADJUSTABLE WEIR SLAB FOUNDATION SECTION

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



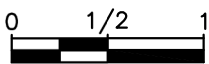
ADJUSTABLE WEIR WALL SECTION

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



REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



WARNING  
  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

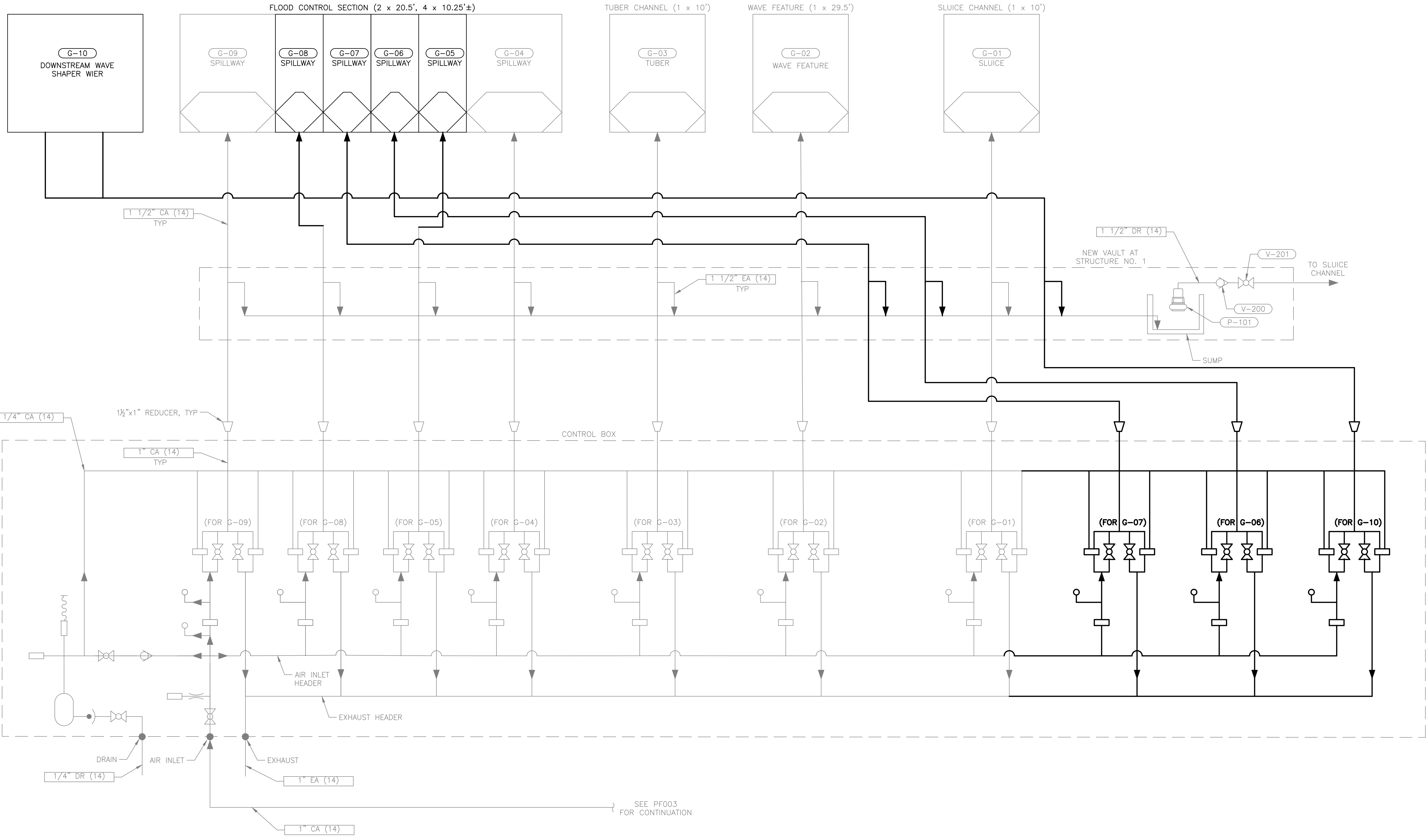


CITY OF BOISE J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION BOISE WHITEWATER PARK
ADJUSTABLE WEIR SLAB FOUNDATION SECTION

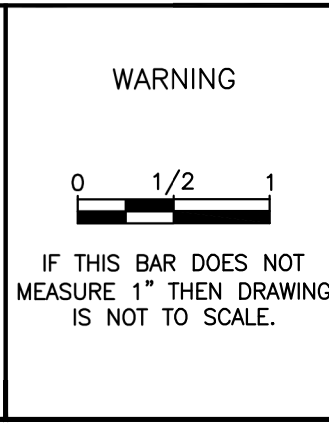
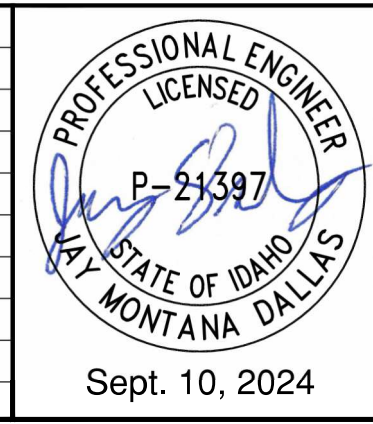
DESIGNED M. MERKLEIN  
 DRAWN R. WOOD  
 CHECKED M. MERKLEIN  
 ISSUED DATE 9/10/24

DRAWING  
**S108**  
 SHEET 19 OF 40  
 SCALE: AS NOTED





REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



CITY OF BOISE  
 J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
 BOISE WHITEWATER PARK  
 REVISED PROCESS FLOW  
 DIAGRAM

DESIGNED J. DALLAS  
 DRAWN R. WOOD  
 CHECKED M. McMILLEN  
 ISSUED DATE 9/10/24

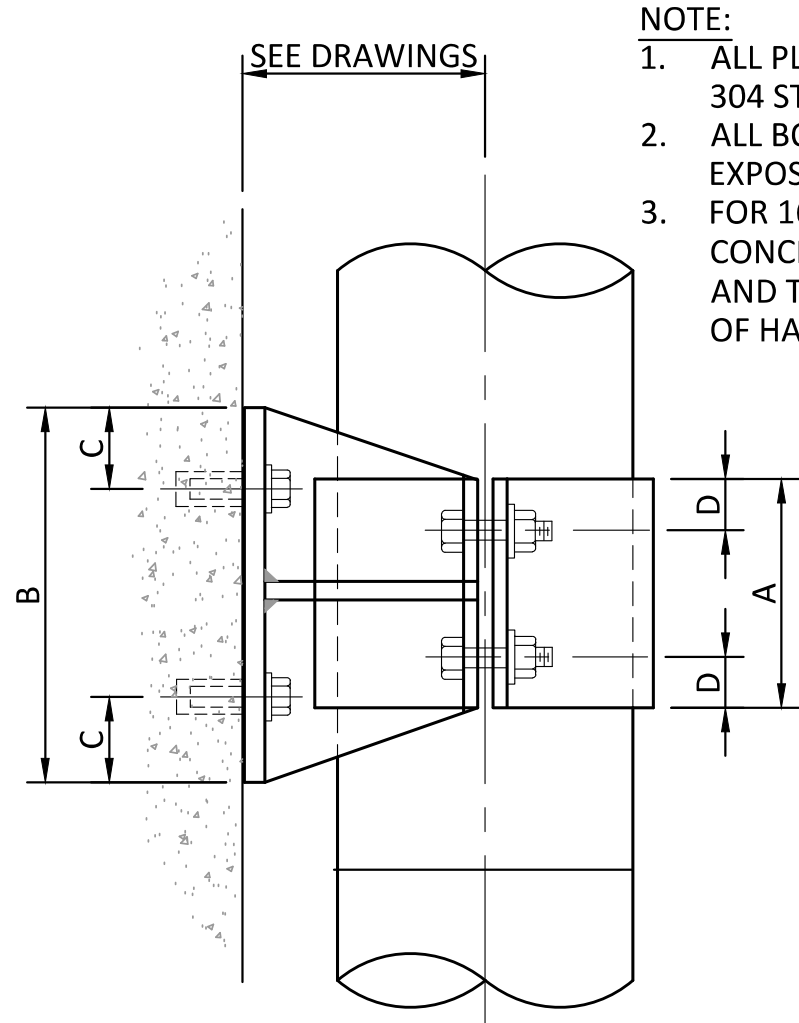
DRAWING  
**PF002**  
 SHEET 20 OF 40  
 SCALE: AS NOTED

Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\PF002.dwg Plot date: Sep 09, 2024 12:15pm  
 JOB NO. 13-108



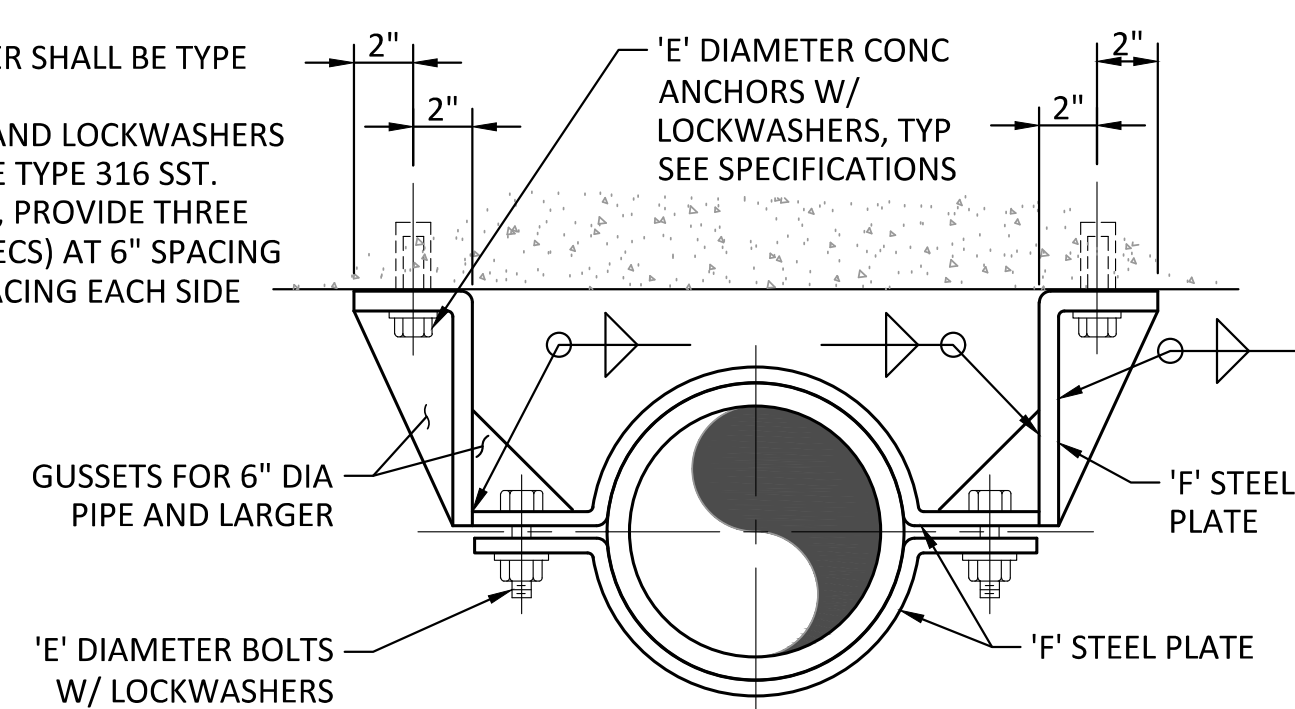






**NOTE:**

1. ALL PLATE EXPOSED TO WATER SHALL BE TYPE 304 STAINLESS STEEL.
2. ALL BOLTS, ANCHORS, NUTS AND LOCKWASHERS EXPOSED TO WATER SHALL BE TYPE 316 SST.
3. FOR 16"-24" DIAMETER PIPES, PROVIDE THREE CONCRETE ANCHORS (SEE SPECS) AT 6" SPACING AND TWO GUSSETS AT 4" SPACING EACH SIDE OF HANGER.

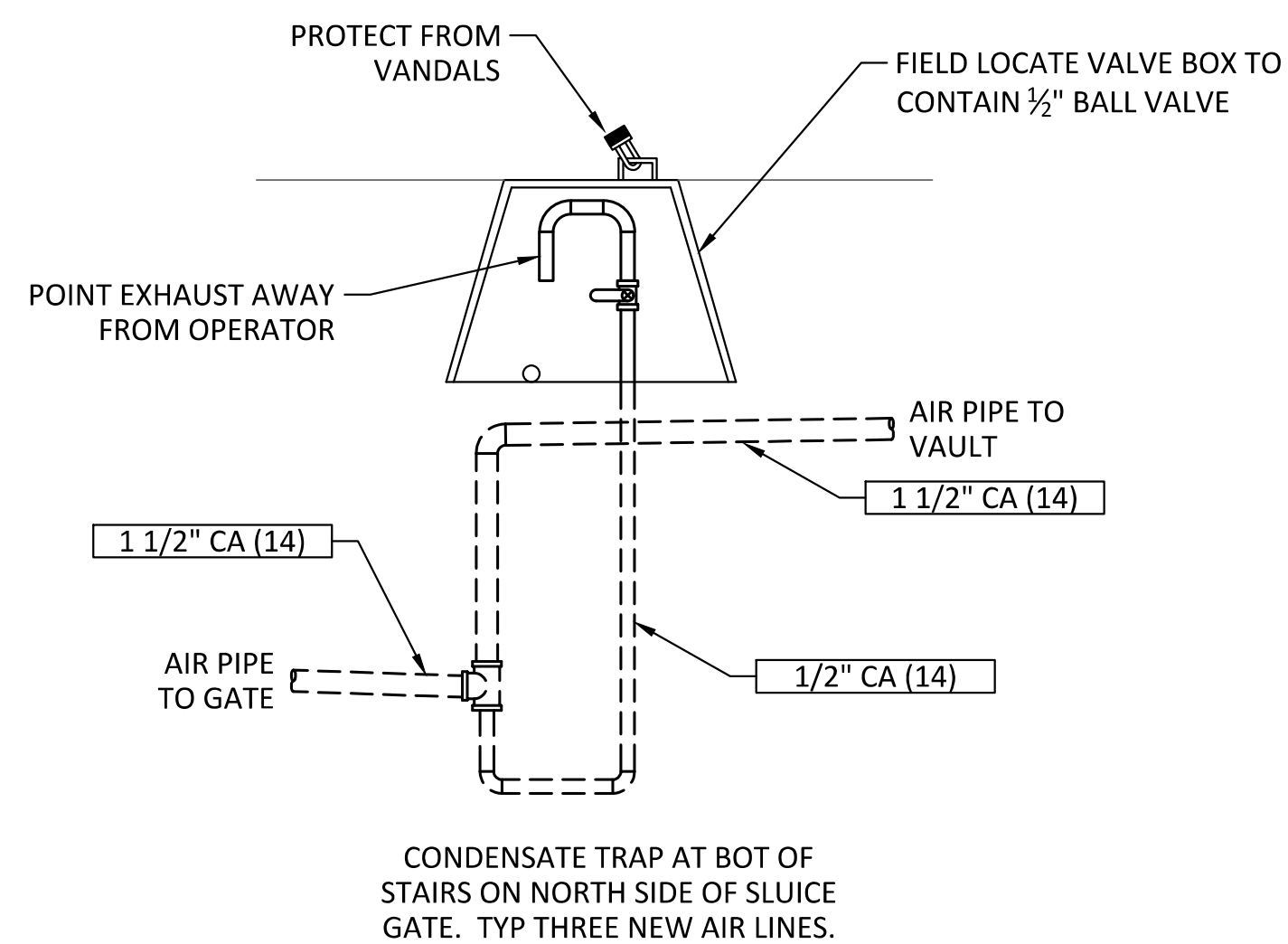


DIMENSIONS IN INCHES						
PIPE DIAMETER	"A"	"B"	"C"	"D"	"E"	"F"
3 TO 8	6	10	1 1/2"	1	5/8	3/4
10 TO 14	8	12	2	1 1/2"	3/4	3/8
16 TO 24	12	16	2	1 1/2"	3/4	3/8

**PIPE HANGER FOR INDIVIDUAL PIPE**

SCALE: NTS

M134

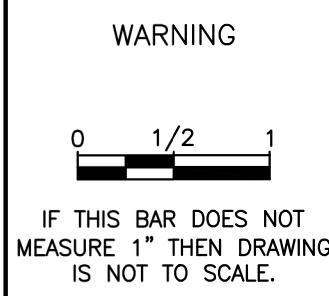
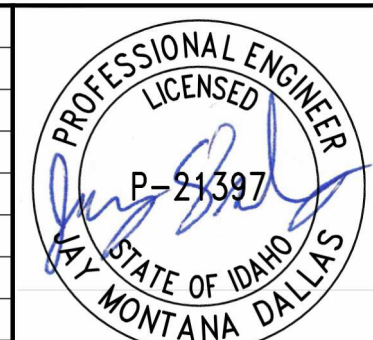


**CONDENSATE PURGE VALVE DETAIL**

SCALE: NTS

M900

REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



CITY OF BOISE	
J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION BOISE WHITEWATER PARK	
STANDARD MECHANICAL DETAILS	

DESIGNED	J. DALLAS
DRAWN	R. WOOD
CHECKED	M. McMILLEN
ISSUED DATE	9/10/24

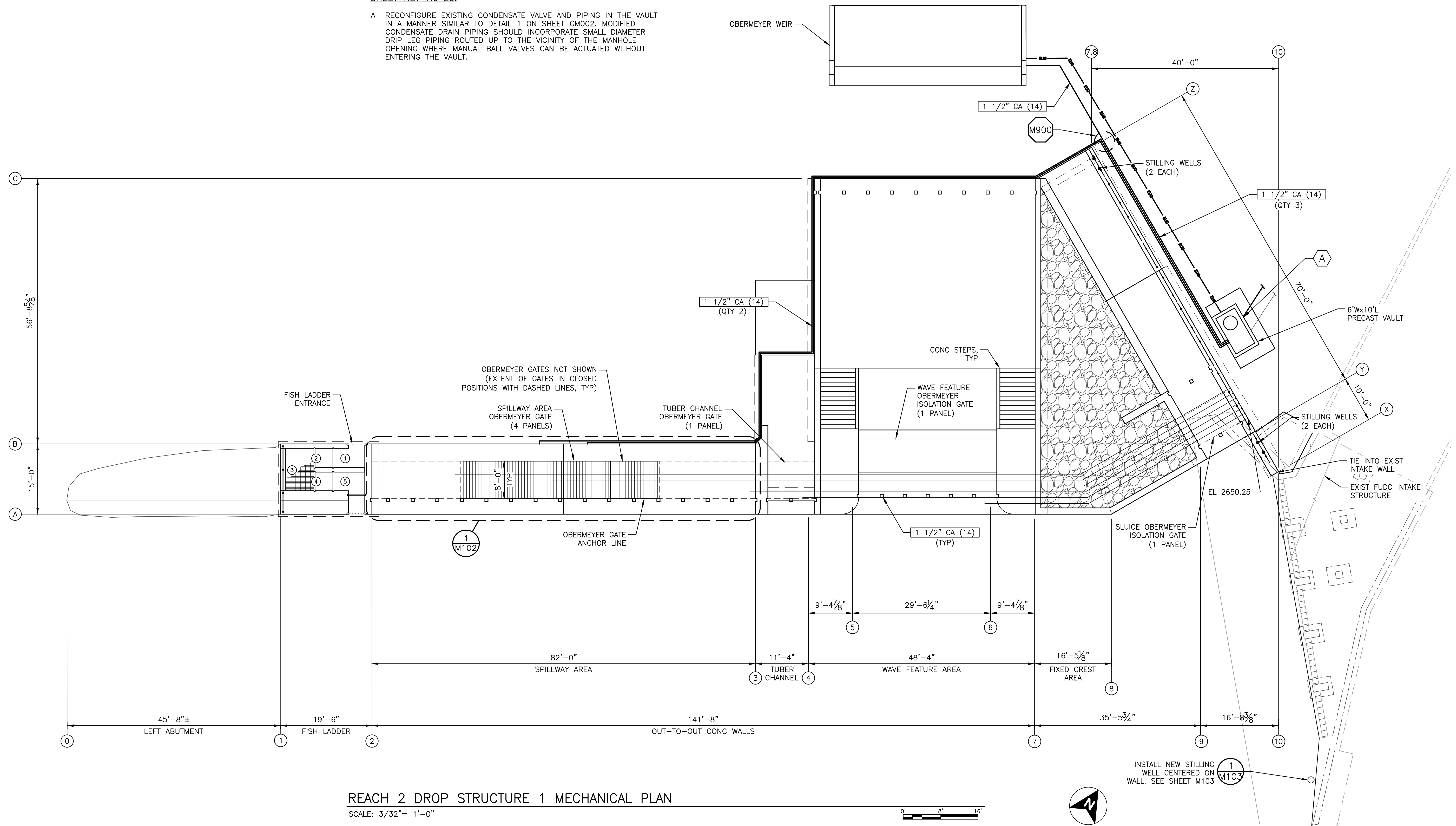
DRAWING	GM002
SHEET	22 OF 40
SCALE:	AS NOTED

Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\GM002.dwg Plot date: Sep 09, 2024 12:15pm



**SHEET KEY NOTES:**

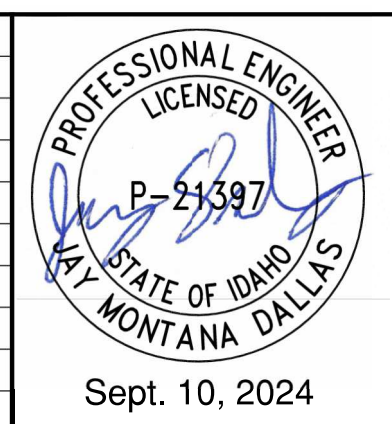
A RECONFIGURE EXISTING CONDENSATE VALVE AND PIPING IN THE VAULT IN A MANNER SIMILAR TO DETAIL 1 ON SHEET GM002. MODIFIED CONDENSATE DRAIN PIPING SHOULD INCORPORATE SMALL DIAMETER DRIP LEG PIPING ROUTED UP TO THE VICINITY OF THE MANHOLE OPENING WHERE MANUAL BALL VALVES CAN BE ACTUATED WITHOUT ENTERING THE VAULT.



**REACH 2 DROP STRUCTURE 1 MECHANICAL PLAN**

SCALE: 3/32" = 1'-0"

REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



**WARNING**  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CITY OF BOISE  
 J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
 BOISE WHITEWATER PARK

REACH 2 DROP STRUCTURE 1  
 MECHANICAL PLAN

DESIGNED J. DALLAS  
 DRAWN R. WOOD  
 CHECKED M. McMILLEN  
 ISSUED DATE 9/10/24

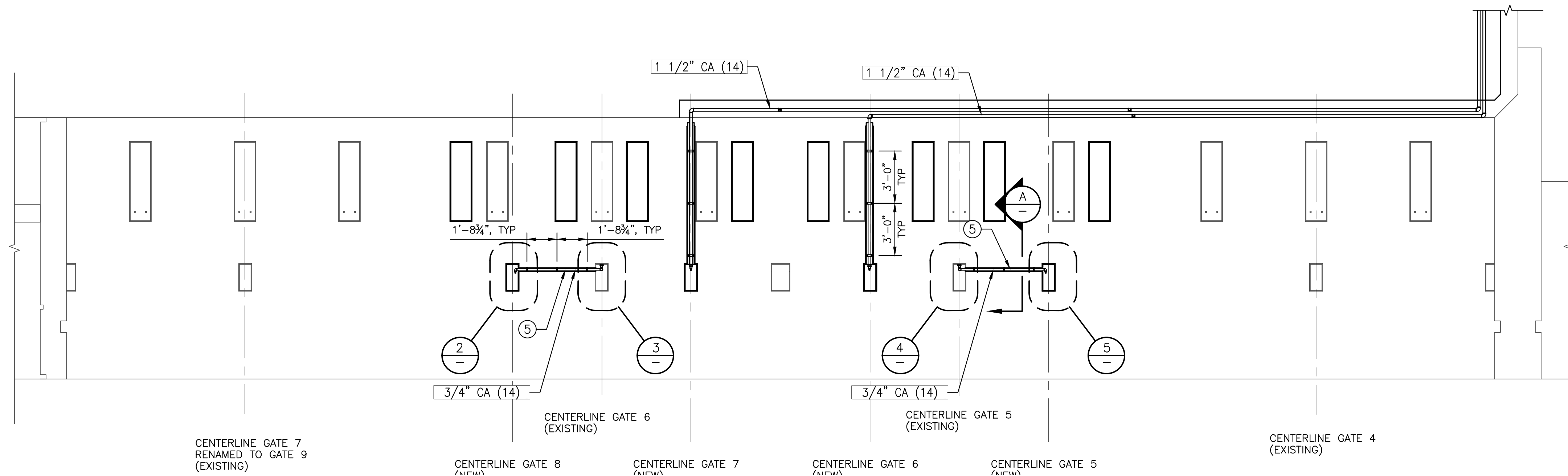
DRAWING  
**M101**  
 SHEET 23 OF 40  
 SCALE: AS NOTED

Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\M101.dwg Plot date: Sep 09, 2024 12:15pm  
 JOB NO. 13-108



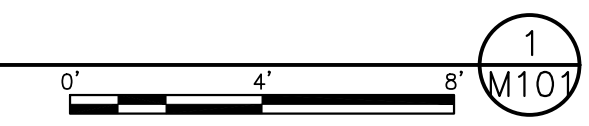
SHEET NOTES:

- CONTRACTOR TO FIELD VERIFY THAT EXISTING AIR LINE ARRANGEMENT IN AIR BLOCKOUTS MATCHES THAT SHOWN ON OBERMEYER 17-1888-G4-7 SERIES OF DRAWINGS. CONSULT ENGINEER IF AS-BUILD CONDITIONS DIFFER.
- USE TEFLON TAPE AND APPROPRIATE THREAD SEALANT TO MAKE UP ALL THREADED PIPE JOINTS.
- CONTRACTOR TO FIELD VERIFY LOCATIONS OF ALL EXISTING AIR BLOCKOUTS AND NEW AIR BLOCKOUTS, AND ADJUST PIPE LENGTH ACCORDINGLY.
- USE STAINLESS STEEL CONCRETE SCREW ANCHORS TO ANCHOR PIPE CLAMPS TO THE STRUCTURE. TITEN HD BY SIMPSON STRONG TIE, OR TAPCON SCREW ANCHOR.

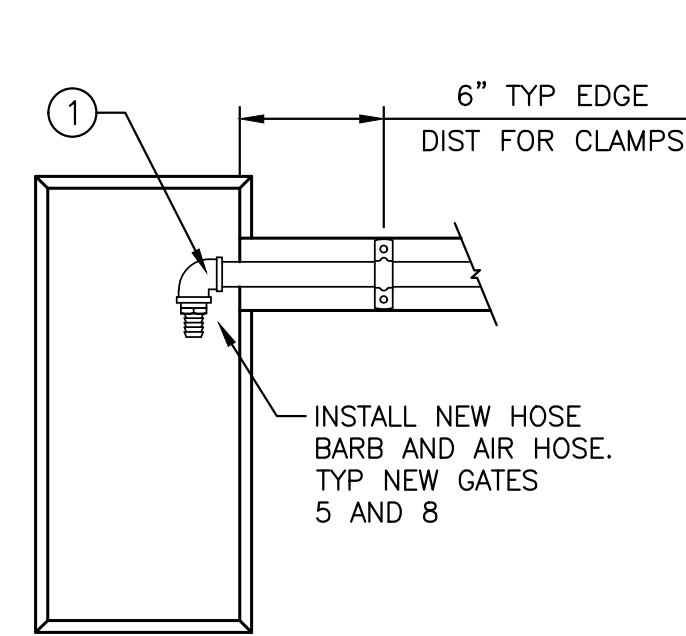


REACH 2 DROP STRUCTURE 1 SPILLWAY – GATE BLOCKOUTS

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

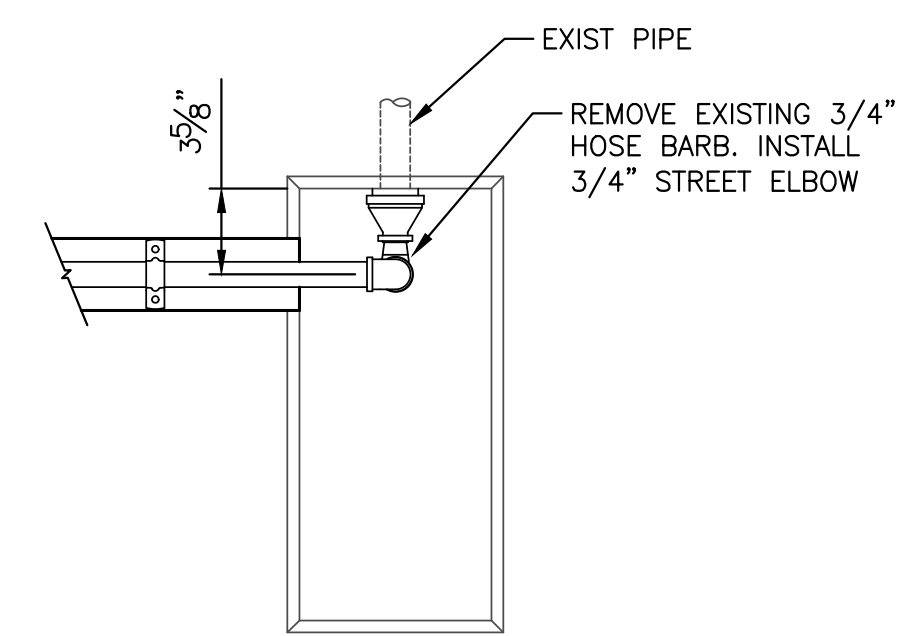


BILL OF MATERIALS			
ITEM NUMBER	ITEM DESCRIPTION	SMITH-COOPER INTL. PART NUMBER	QTY
1	150# 90 DEGREE ELBOW, 3/4", STAINLESS STEEL, NPT THREADS	S3116E 006	2
2	150# 90 DEGREE STREET ELBOW, 3/4", STAINLESS STEEL, NPT THREADS	S3116SE006	2
3	150# 45 DEGREE ELBOW, 3/4", STAINLESS STEEL, SOCKET WELD	S3716F 006	2
4	150# 90 DEGREE ELBOW, 1-1/2", STAINLESS STEEL, SOCKET WELD	S3716E 012	2
5	3/4" STAINLESS STEEL SEAMLESS PIPE PER ASTM A312, NPT THREADED ONE END, 58" LONG	S6146SP006	2
6	3/4" STAINLESS STEEL SEAMLESS PIPE PER ASTM A312, NPT THREADED ONE END, 1-1/2" LONG	S6146SP006	3
7	304 SS ROUTING CLAMP FOR 3/4" PIPE	MCMMASTER CARR PN: 8874T13	6
8	304 SS ROUTING CLAMP FOR 1-1/2" PIPE	MCMMASTER CARR PN: 8874T21	6



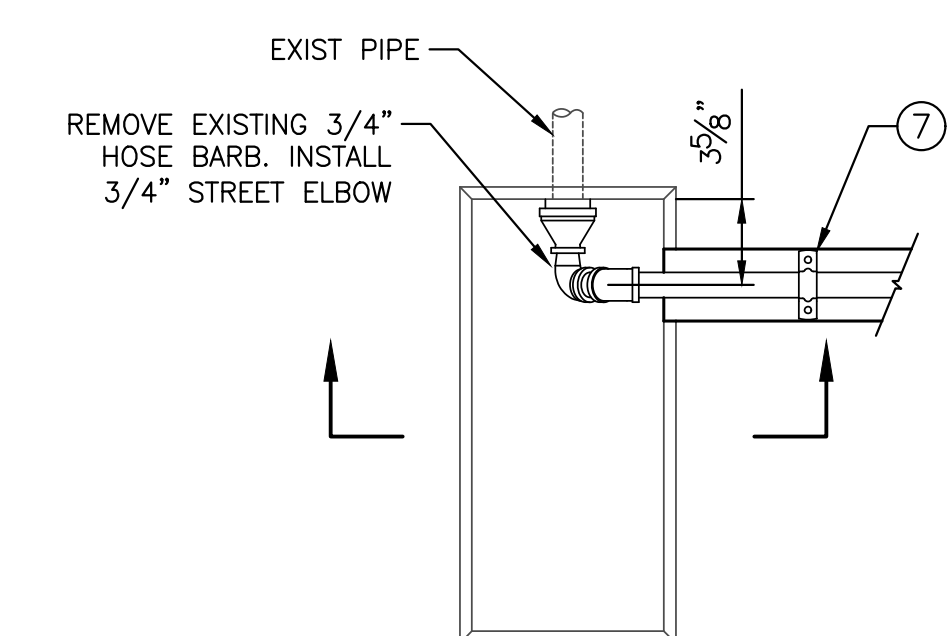
NEW GATE 8 AIR BLOCKOUT

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



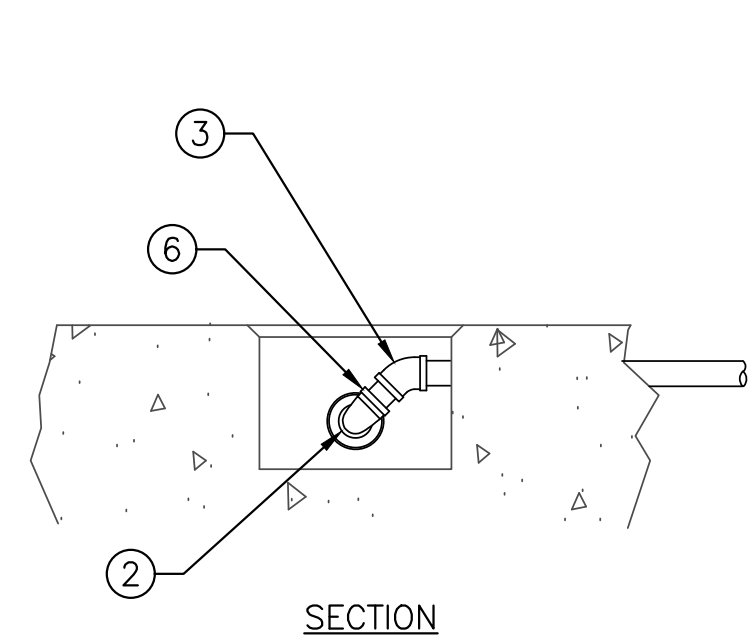
EXISTING GATE 6 AIR BLOCKOUT

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



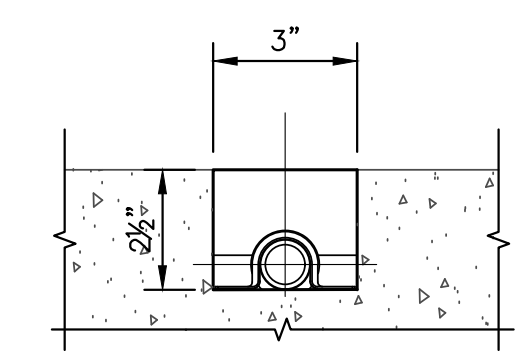
EXISTING GATE 5 AIR BLOCKOUT

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



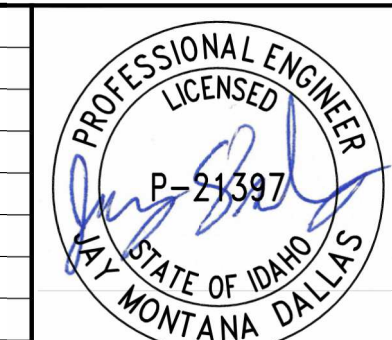
NEW GATE 5 AIR BLOCKOUT

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



SECTION

SCALE: 3" = 1'-0"



WARNING  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CITY OF BOISE  
J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
BOISE WHITEWATER PARK

SPILLWAY PLAN AIRLINE MODS

DESIGNED J. DALLAS  
DRAWN R. WOOD  
CHECKED M. McMILLEN  
ISSUED DATE 9/10/24

DRAWING  
**M102**  
SHEET 24 OF 40  
SCALE: AS NOTED

REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION

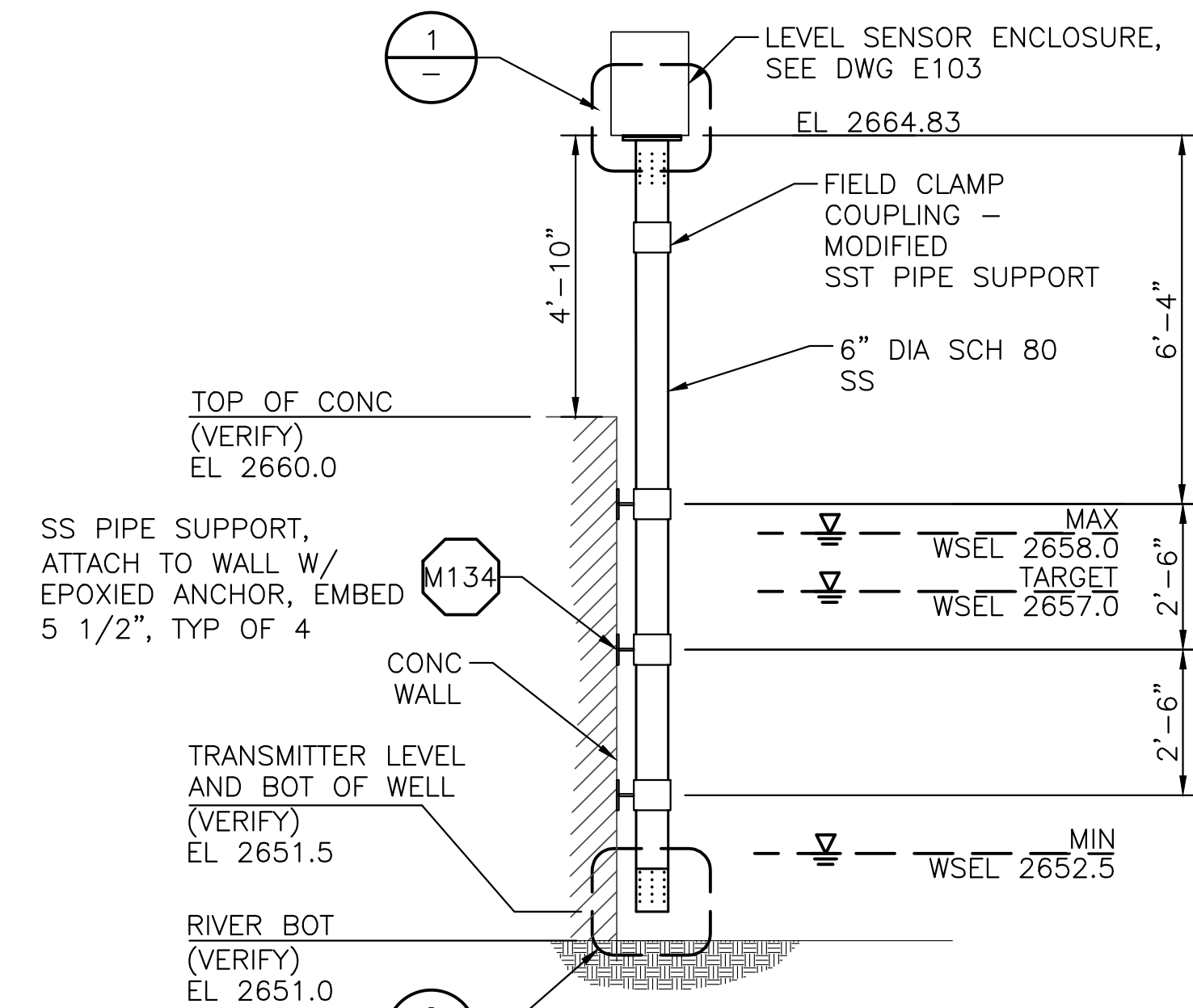
Sept. 10, 2024

Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\M102.dwg Plot date: Sep 09, 2024 12:15pm



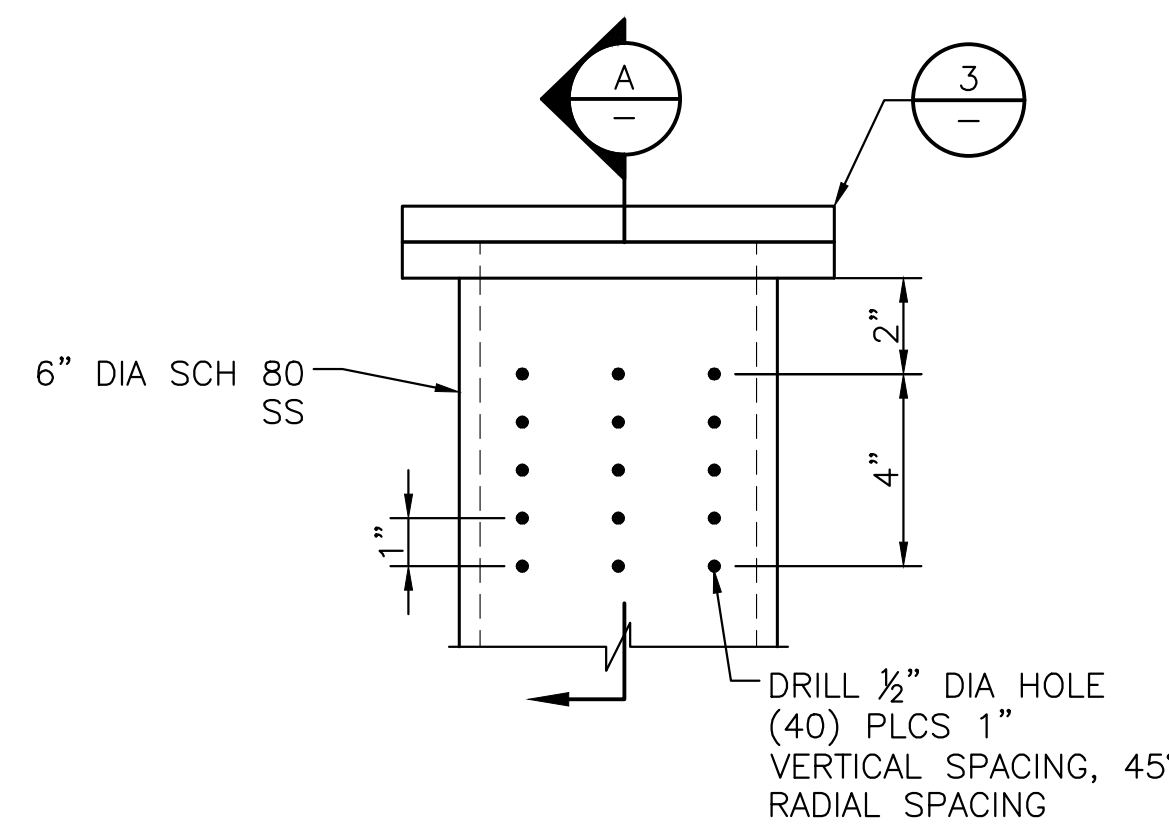
SHEET NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION AND ORDERING MATERIALS. NOTIFY THE ENGINEER OF ANY CONFLICTS BEFORE PROCEEDING THE RELATED WORK.
2. FIELD VERIFY ANY OBSTACLES ATTACHED TO THE WALL THAT MAY INTERFERE WITH STILLING WELL INSTALLATION AS SHOWN. NOTIFY THE ENGINEER OF ANY CONFLICTS BEFORE PROCEEDING WITH RELATED WORK.



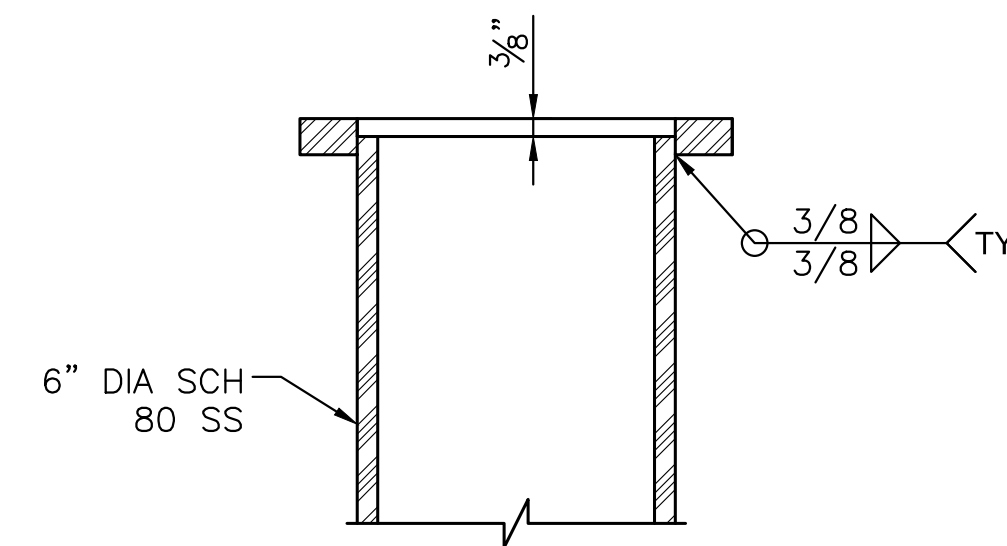
STILLING WELL ELEVATION

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



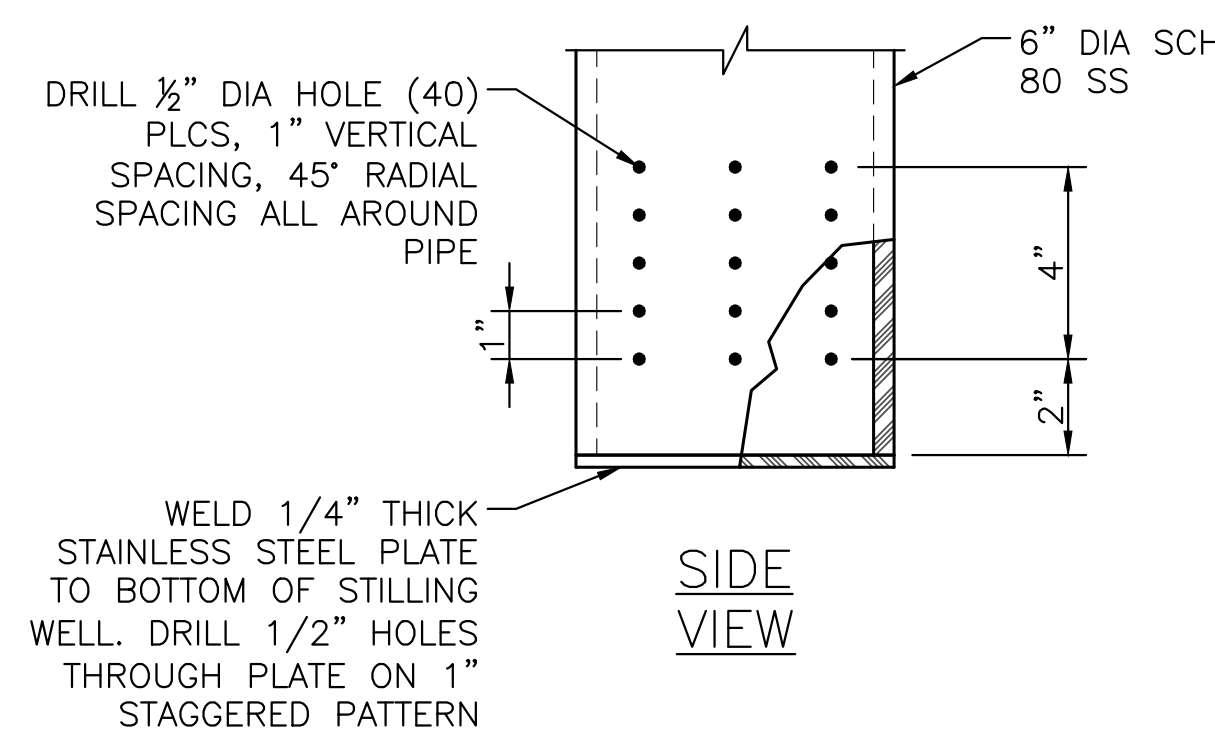
TOP OF STILLING WELL DETAIL

SCALE: 3" = 1'-0"



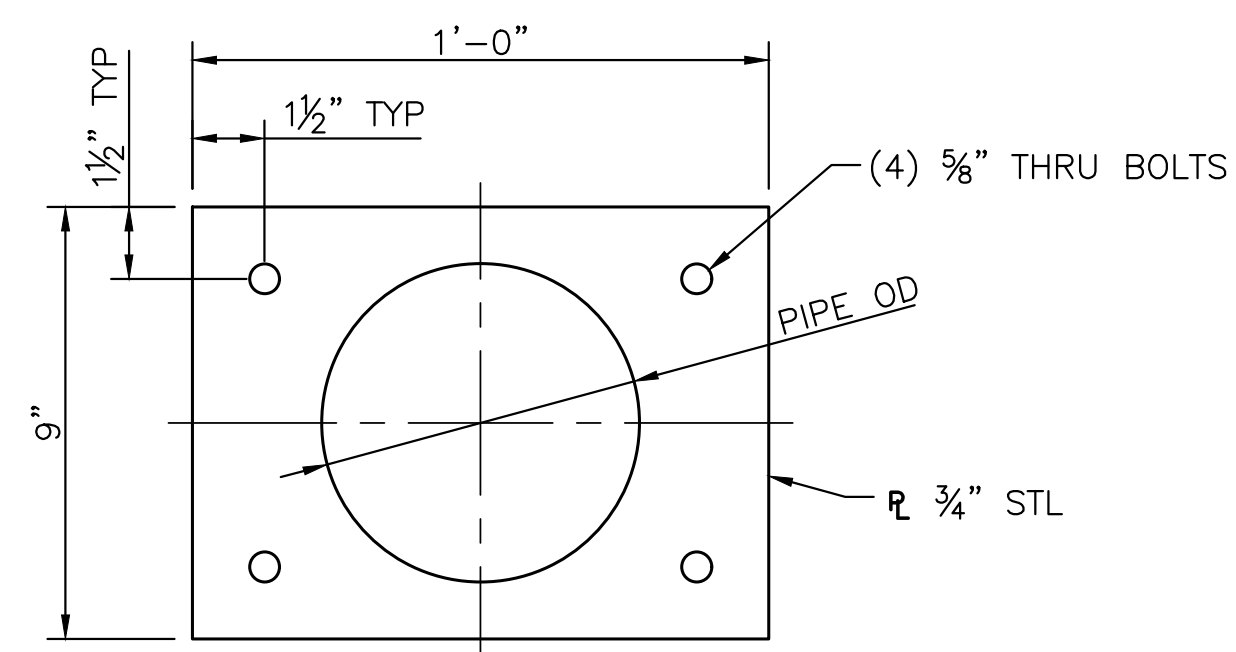
TOP OF STILLING WELL SECTION

SCALE: 3" = 1'-0"



BOTTOM OF STILLING WELL DETAIL

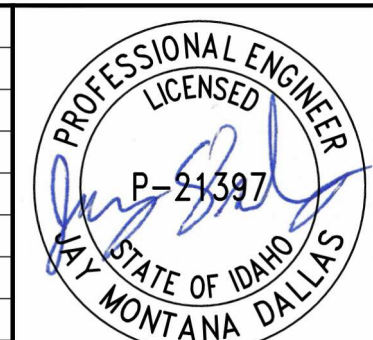
SCALE: 3" = 1'-0"



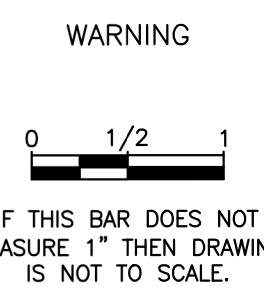
STILLING WELL CAP PLATE

SCALE: 3" = 1'-0"

REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



Sept. 10, 2024



CITY OF BOISE	
J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION BOISE WHITEWATER PARK	
STILLING WELL ELEVATION AND DETAILS	

DESIGNED	J. DALLAS
DRAWN	R. WOOD
CHECKED	M. McMILLEN
ISSUED DATE	9/10/24

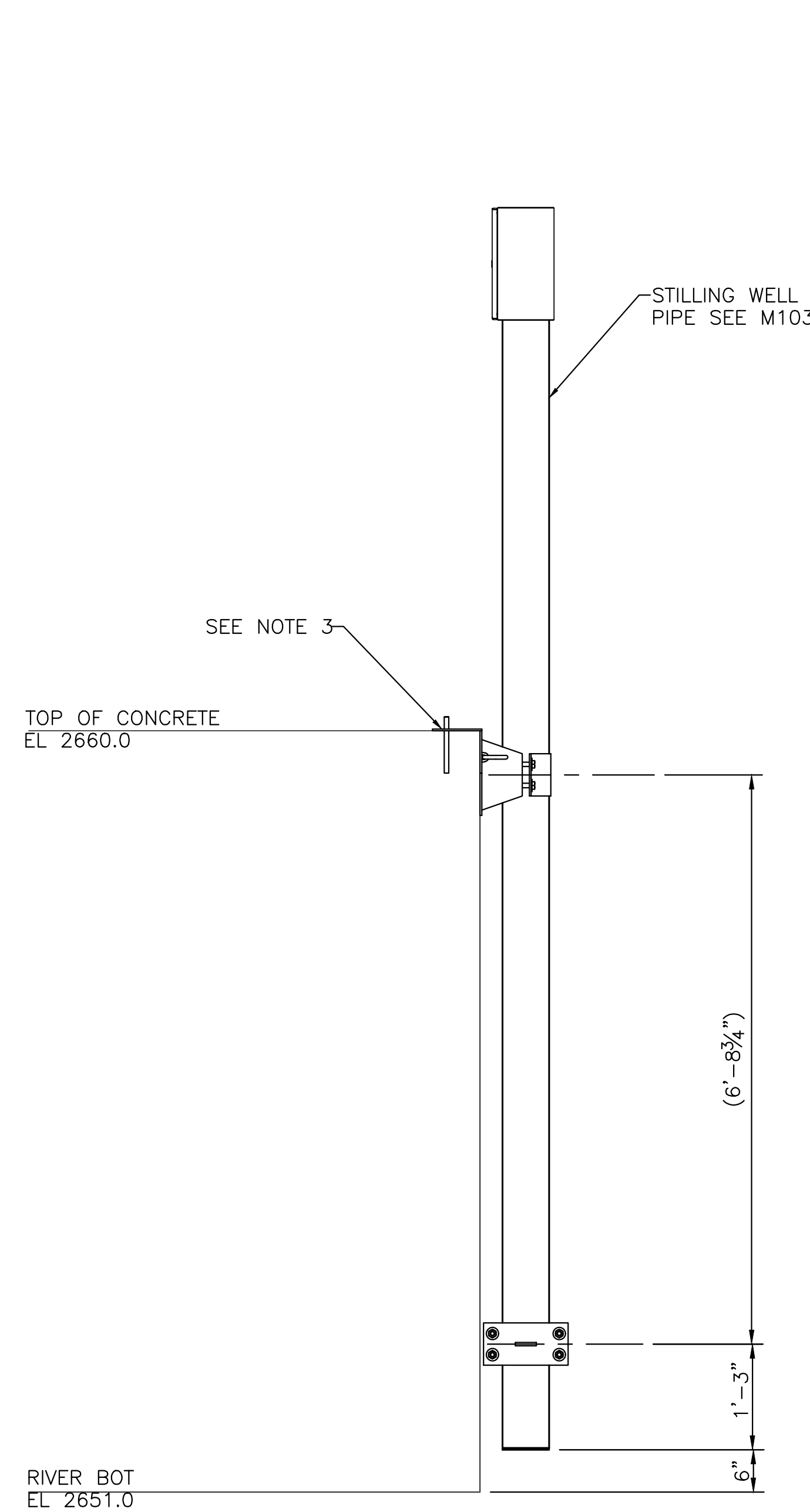
DRAWING	M103
SHEET	25 OF 40
SCALE:	AS NOTED

Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\M103.dwg Plot date: Sep 09, 2024 12:15pm



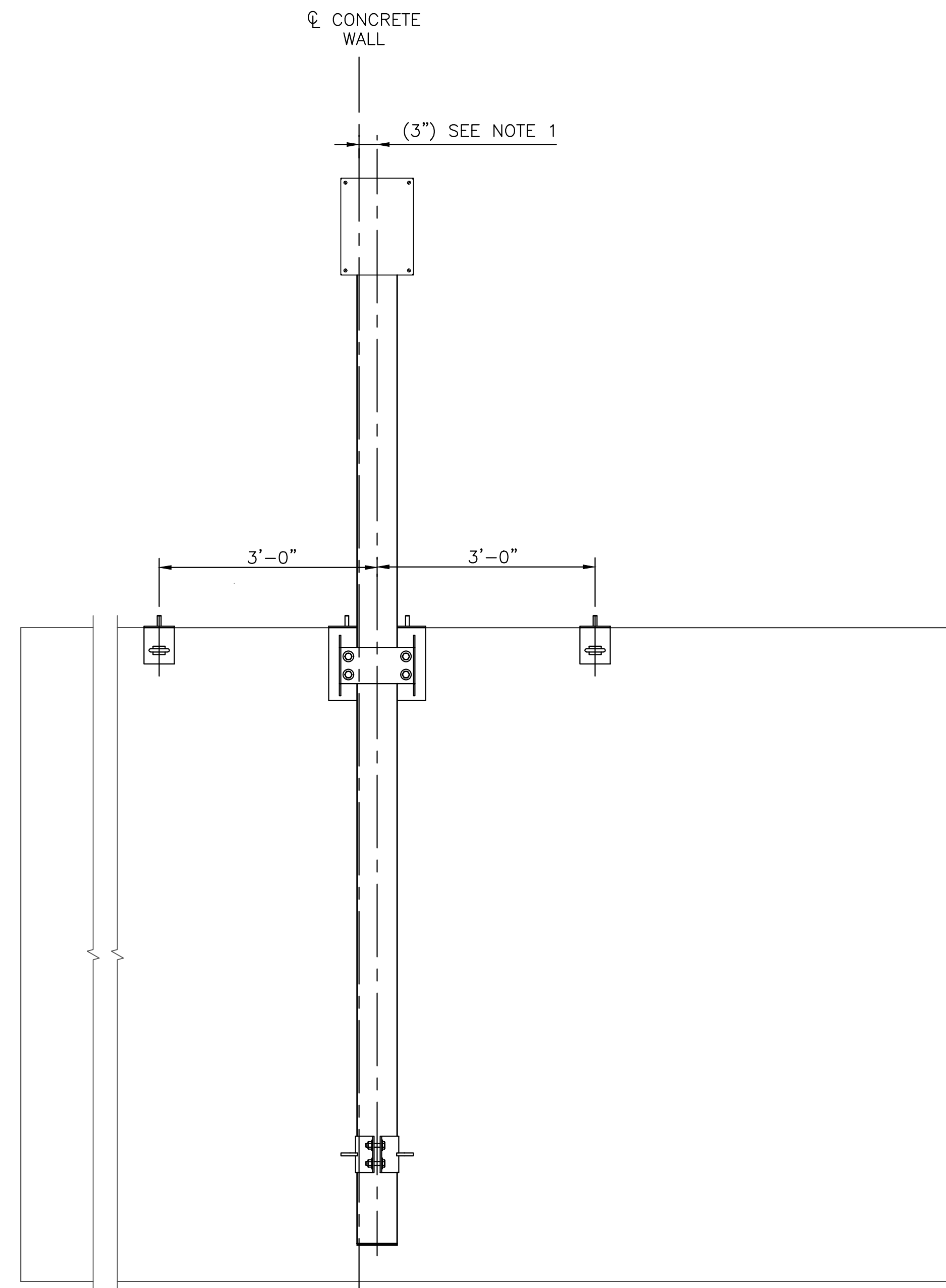
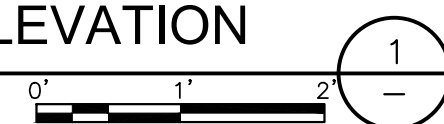
SHEET NOTES:

1. FIELD VERIFY LOCATION OF EXISTING HANDRAIL POSTS TO LOCATE STILLING WELL.
2. ATTACH 1/4" SS GUY WIRE ASSEMBLY TO D-RINGS AND PIPE BRACKETS PRIOR TO LOWERING PIPE INTO RIVER.
3. USE THREADED CONCRETE INSERT ANCHORS WITH 5/8" TAMPER RESISTANT SCREWS.



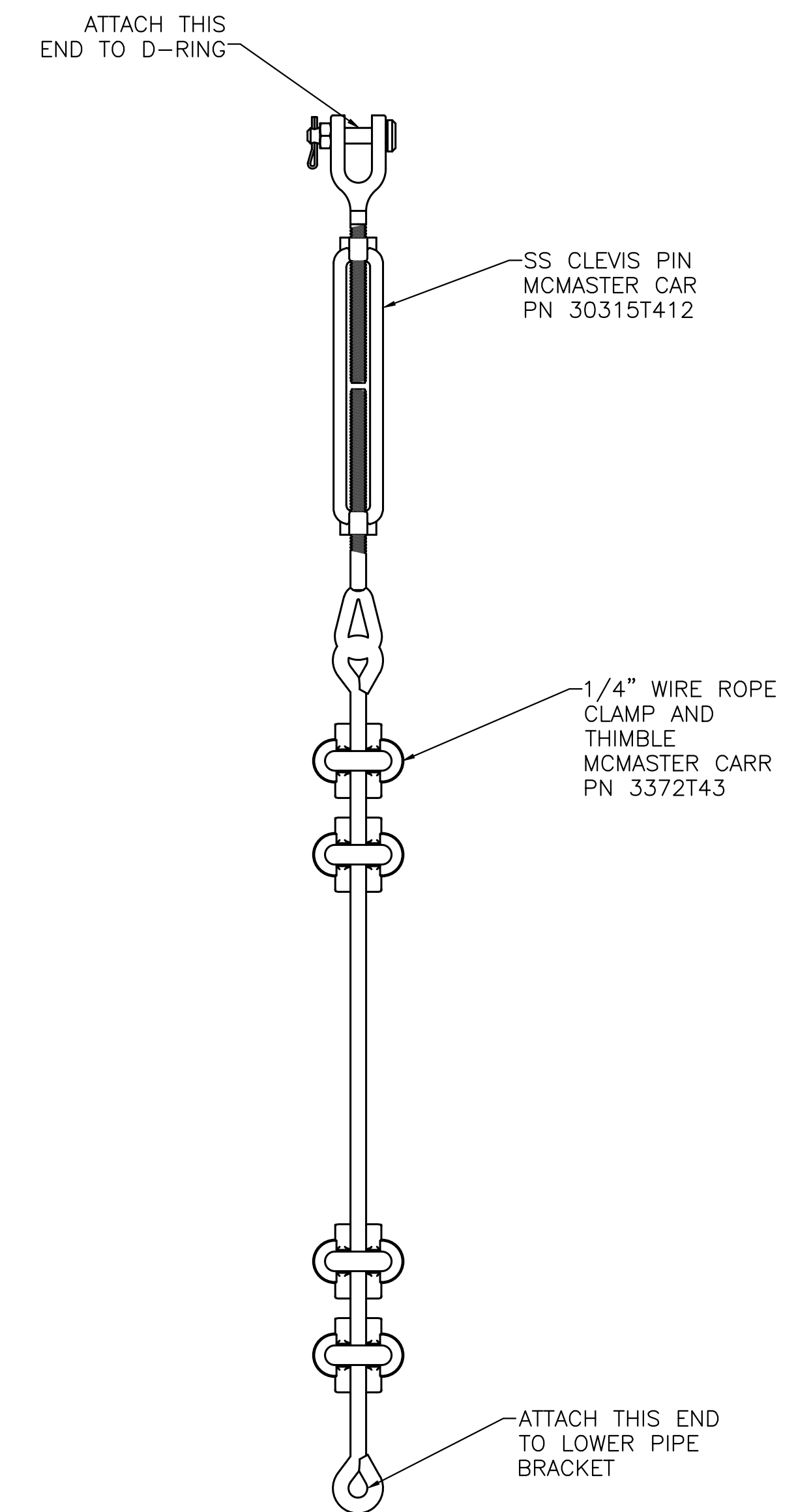
TEMPORARY STILLING WELL SIDE ELEVATION

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



TEMPORARY STILLING WELL FRONT ELEVATION

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

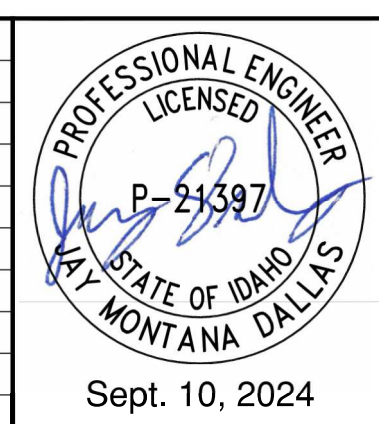


GUY WIRE ASSEMBLY

SCALE: 6" = 1'-0"  
QTY REQD: 2  
SEE NOTE 2



REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



WARNING  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

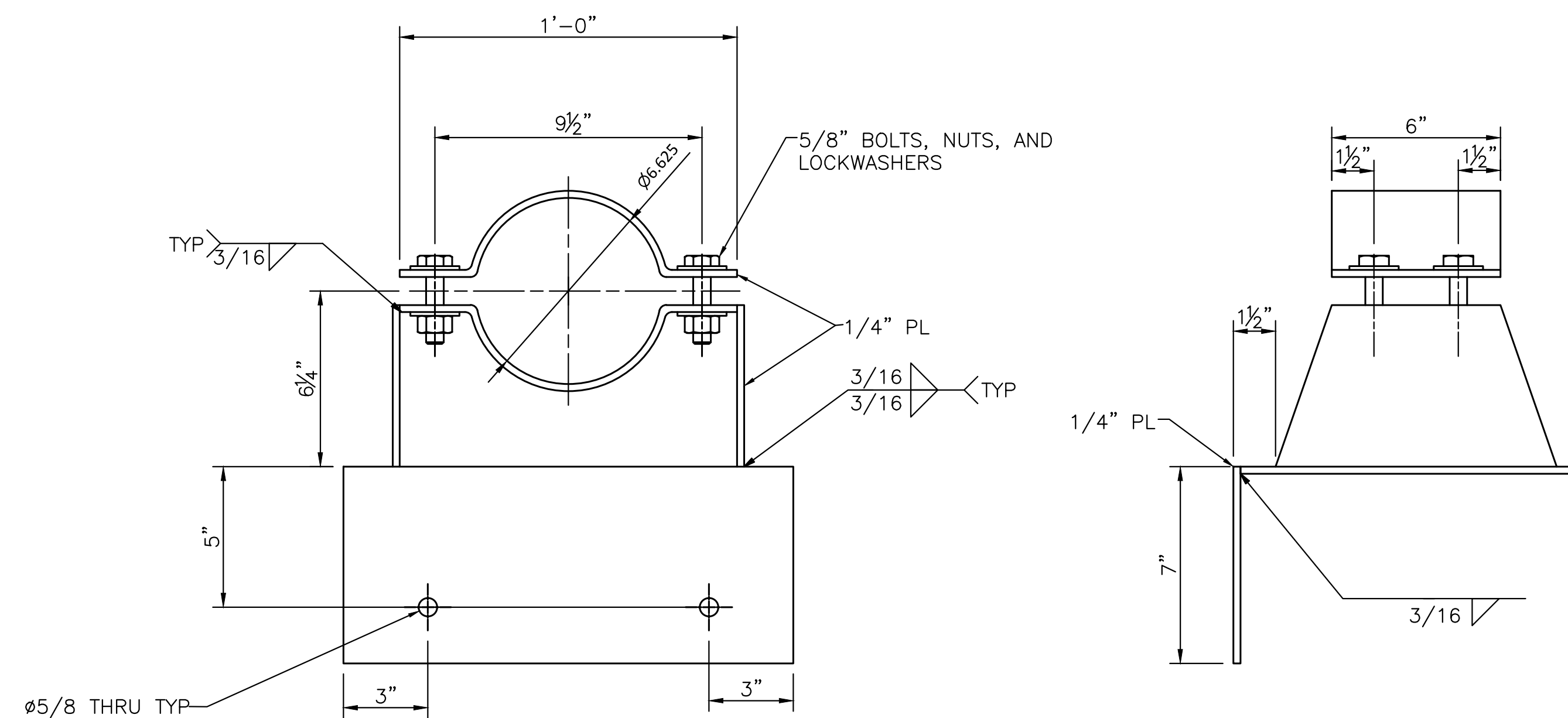
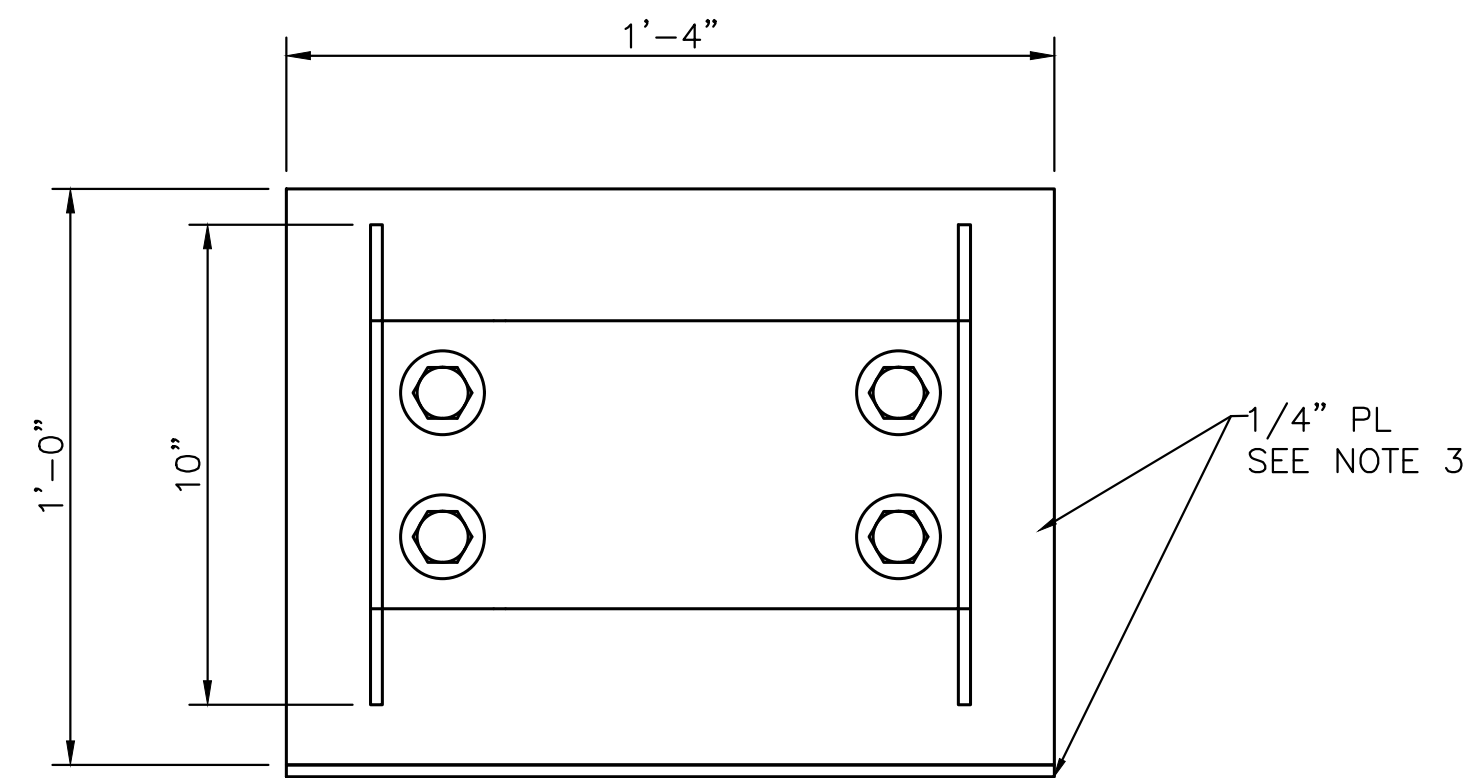


CITY OF BOISE  
J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
BOISE WHITEWATER PARK

STILLING WELL TEMPORARY  
INSTALLATION OVERVIEW

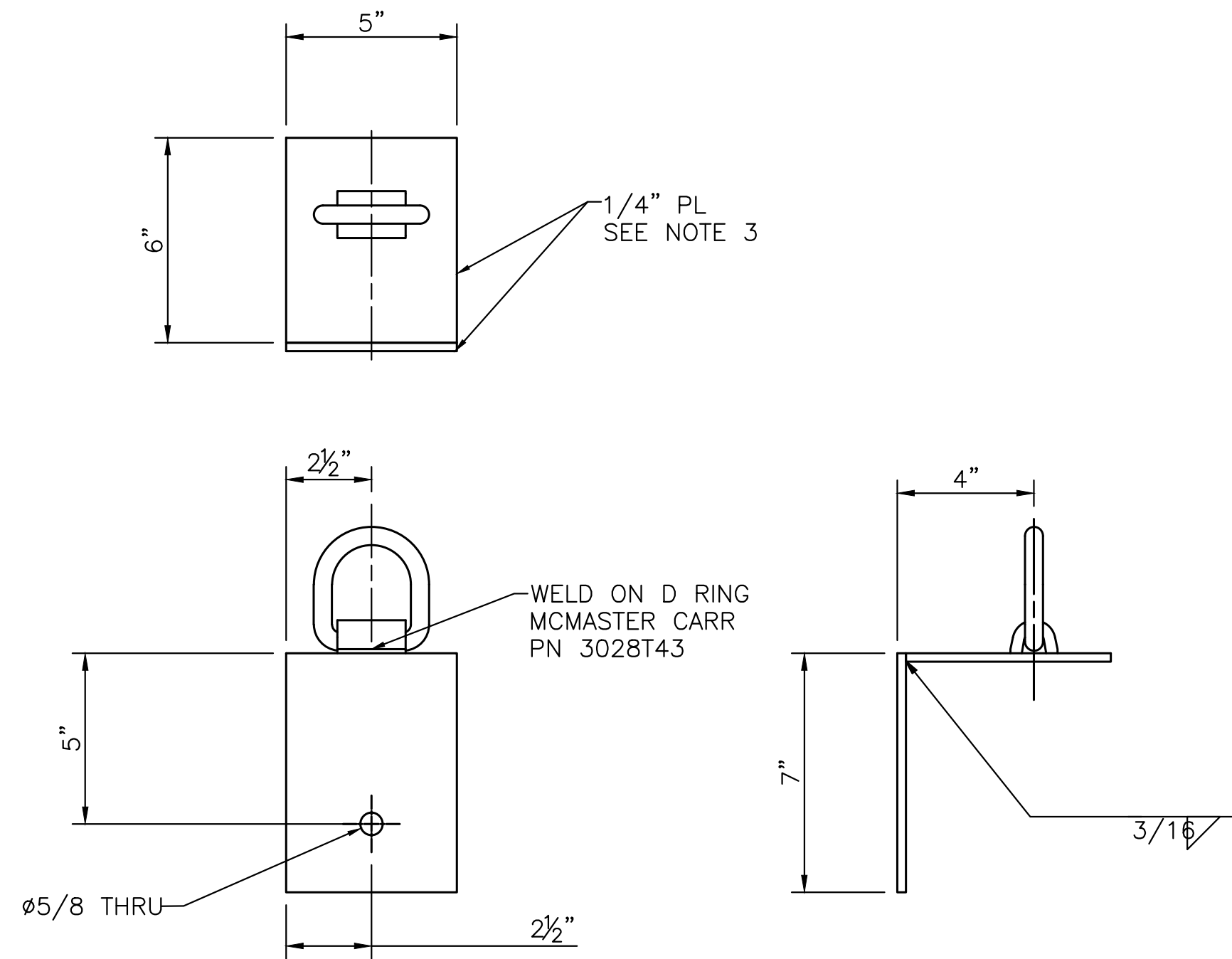
DESIGNED J. DALLAS  
DRAWN R. WOOD  
CHECKED M. McMILLEN  
ISSUED DATE 9/10/24

DRAWING  
**M104**  
SHEET 26 OF 40  
SCALE: AS NOTED



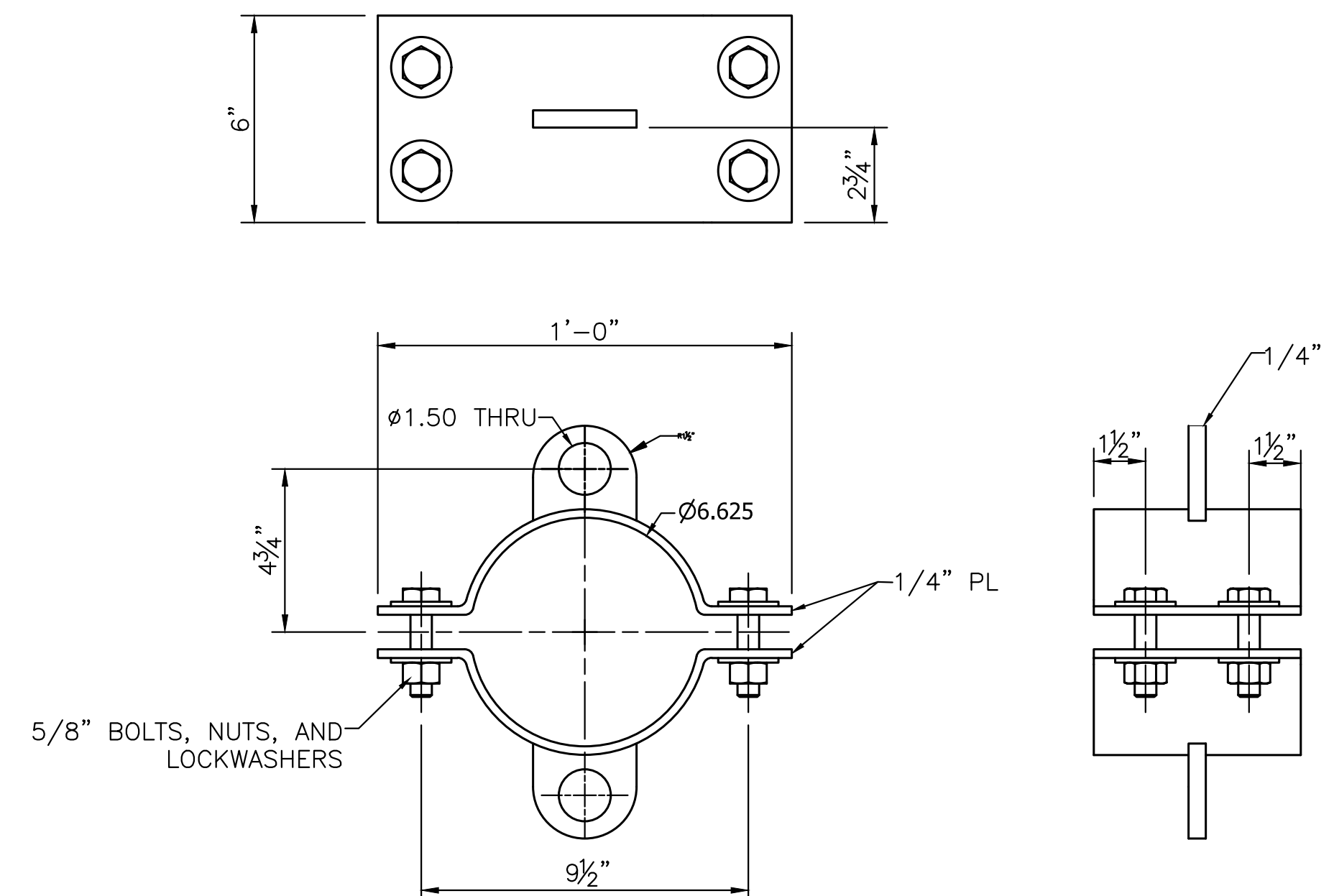
**UPPER PIPE HANGER**

SCALE: 3" = 1'-0"  
QTY REQD: 1



**D-RING BRACKET**

SCALE: 3" = 1'-0"  
QTY REQD: 2



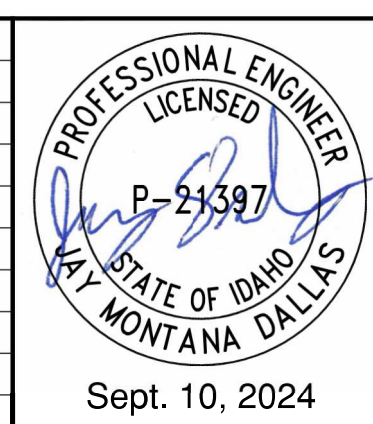
**LOWER PIPE HANGER**

SCALE: 3" = 1'-0"  
QTY REQD: 1  
SYMMETRIC ABOUT CL

**SHEET NOTES:**

1. ALL MATERIALS TO BE SS UNLESS OTHERWISE NOTED.
2. WELD IN ACCORDANCE WITH AWS D1.6.
3. BRACKET MAY BE MADE OF BENT PLATE WITH 1/2" INNER BEND RADIUS.

REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



**WARNING**  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CITY OF BOISE  
J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
BOISE WHITEWATER PARK

STILLING WELL TEMPORARY  
INSTALLATION DETAILS

DESIGNED J. DALLAS  
DRAWN R. WOOD  
CHECKED M. McMILLEN  
ISSUED DATE 9/10/24

DRAWING  
**M105**  
SHEET 27 OF 40  
SCALE: AS NOTED



**ABBREVIATIONS**

2TSP	MULTI-TWISTED TWO PAIR, OVERALL SHIELDED
A, AMP	AMP AMPERE
AAAC	ALL ALUMINUM ALLOY CONDUCTOR
AF	AMPERE FRAME SIZE
AFF	ABOVE FINISHED FLOOR
AH	AMPERE HOURS
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AL	ALUMINUM
A/R	AS REQUIRED
AT	AMPERE TRIP, AUTO, AUTOMATIC
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AVR	AUTOMATIC VOLTAGE REGULATOR
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLF	CURRENT LIMITING FUSE
CTRL	CONTROL
CO	CONDUIT ONLY
CONTD	CONTINUED
CP	CONTROL PANEL
CR	CONTROL RELAY
CS	CONTROL SWITCH
CT	CURRENT TRANSFORMER
CU	COPPER
DB	DUCT BANK
DET	DETAIL
DIAG	DIAGRAM
DISC	DISCONNECT
DP	DISTRIBUTION PANEL
DSL	MANUAL DISCONNECT SWITCH, 3-POLE, GANG OPERATED
DWG(S)	DRAWING(S)
EL	ELEVATION
EMER	EMERGENCY
EPT	EXCITATION POWER TRANSFORMER
EV	ELECTRICAL VAULT
EQUIP	EQUIPMENT
FDR	FEEDER
GEN	GENERATOR
GFCI	GROUND-FAULT CIRCUIT INTERRUPTER
GFI	GROUND-FAULT INTERRUPTION
GFP	GROUND-FAULT PROTECTION
GND	GROUND
GRS	GALVANIZED RIGID STEEL
GSU	GENERATOR STEP-UP TRANSFORMER
HH	HAND HOLE
HMI	HUMAN-MACHINE INTERFACE
HOA	HAND-OFF-AUTO
HPU	HYDRAULIC POWER UNIT
HTR	HEATER
HZ	HERTZ (CYCLES PER SECOND)
I/O	INPUT/OUTPUT
INST	INSTANTANEOUS
INTLK	INTERLOCK
IP	INTERNET PROTOCOL
IPB	ILLUMINATED PUSH BUTTON
JB	JUNCTION BOX
JCRN	JIB CRANE
KCMIL	THOUSAND CIRCULAR MILLS
kV	KILOVOLTS
kVA	KILOVOLT AMPERES (APPARENT POWER)
kVAR	KILOVARS (REACTIVE POWER)
kW	KILOWATTS (REAL POWER)
kWH	KILOWATT HOUR
LP	LIGHTING PANEL
LTG	LIGHTING
LV	LOW VOLTAGE
mA	MILLIAMPERES
M	MOTOR MAN MANUAL
MAN	MANUAL
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MFM	MULTIFUNCTIONAL METER
MH	MAN HOLE
MTS	MANUAL TRANSFER SWITCH
mV	MILLIVOLTS
NC	NORMALLY CLOSED

NGR	NEUTRAL GROUNDING RESISTOR
NO	NORMALLY OPEN, NUMBER
NP	NAMEPLATE
NTS	NOT TO SCALE
OL	OVERLOAD
PB	PULLBOX, PUSH BUTTON
PC	PHOTOELECTRIC CONTROL UNIT
PCC	POINT OF COMMON CONNECTION
PH	PHASE
PNL	PANEL
PLC	PROGRAMMABLE LOGIC CONTROLLER
POI	POINT OF INTER-CONNECTION
PTT	PUSH-TO-TEST
PVC	POLYVINYL CHLORIDE
RCP	RECEPTACLE
REF	REFERENCE
RGS	RIGID GALVANIZED STEEL CONDUIT
RIO	REMOTE I/O
RTD	RESISTANCE TEMPERATURE DETECTOR
S	SYNC SCOPE
SA	SURGE ARRESTER
SC	SURGE CAPACITOR
SDP	STANDBY DISTRIBUTION PANEL
SEC	SECOND
SEL	SELECTOR, SCHWEITZER ENGINEERING LABORATORIES
SPEC	SPECIFICATION
SS	STAINLESS STEEL
S/S	STATION SERVICE
STA	STATION
SW	SWITCH
SWGR	SWITCHGEAR
TB	TERMINAL BLOCK, TERMINAL BOX
TS	THERMOSTAT
TSP	TWISTED SHIELDED PAIR
TST	TWISTED SHIELDED TRIAD
TX	TRANSMITTER
TYP	TYPICAL
UP	UTILITY POWER
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VAC	VOLTS ALTERNATING CURRENT
VC	VIDEO CAMERA
VDC	VOLTS DIRECT CURRENT
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
W/	WITH
W/O	WITHOUT
WP	WEATHER PROOF (NEMA 4)
XFMR	TRANSFORMER
XLPE	CROSS LINKED POLYETHYLENE
XP	EXPLOSION PROOF
YL	YARD LIGHT

**CONTROL RELAY AND DEVICES INDEX**

3	CHECKING OR INTERLOCKING RELAY
4	MASTER CONTACTOR
5	STOPPING DEVICE
12	OVER-SPEED DEVICE
13	SYNCHRONOUS-SPEED DEVICE
14	UNDER-SPEED DEVICE
15	SPEED/FREQUENCY MATCHING DEVICE
20	ELECTRIC OPERATED VALVE
21	DISTANCE RELAY
23T	THERMOSTAT
24	VOLT/HERTZ RELAY
25	SYNCHRONOUS CHECK DEVICE
25A	AUTOMATIC SYNCHRONIZATION DEVICE
26	APPARATUS THERMAL DEVICE
27	UNDERVOLTAGE RELAY
30	ANNUNCIATOR RELAY
32	REVERSE POWER RELAY
33	POSITION SWITCH
34	MASTER SEQUENCE DEVICE
37	UNDERCURRENT/UNDERPOWER RELAY
38	BEARING PROTECTION DEVICE
39	VIBRATION DETECTOR
40	FIELD RELAY
41	FIELD CURRENT BREAKER
43	MANUAL TRANSFER/SELECTOR DEVICE
46	REVERSE PHASE/PHASE BALANCE RELAY
48	INCOMPLETE SEQUENCE RELAY
49	MACHINE/TRANSFORMER THERMAL RELAY
50	INSTANTANEOUS OVERCURRENT RELAY
51C	AC TIME OVERCURRENT RELAY
50/51	VOLTAGE-CONTROLLED TIME OVERCURRENT RELAY
52	TIME AND INSTANTANEOUS OVERCURRENT RELAY
52G	AC CIRCUIT BREAKER
52L	GENERATOR CIRCUIT BREAKER
53	LINE CIRCUIT BREAKER
54	EXCITER/DC GENERATOR RELAY
55	HIGH SPEED DC CIRCUIT BREAKER
57	POWERFACTOR RELAY
59	GROUND SWITCH
59N	OVERVOLTAGE RELAY
60	NEUTRAL OVERVOLTAGE RELAY
61	VOLTAGE BALANCE RELAY
62	CURRENT BALANCE RELAY
63	TIME DELAY RELAY
64	LIQUID OR GAS PRESSURE LEVEL/FLOW RELAY
65	GROUND PROTECTIVE RELAY
67	GOVERNOR
70	AC DIRECTIONAL OVERCURRENT RELAY
71	ELECTRIC OPERATED RHEOSTAT
72	TRANSFORMER OIL LEVEL TRIP/ALARM DEVICE
74	DC CIRCUIT BREAKER
76	ALARM RELAY
79	DC OVERCURRENT RELAY
81	AUTOMATIC RECLOSING RELAY
810/U	FREQUENCY RELAY
83	OVER/UNDER FREQUENCY RELAY
85	AUTOMATIC SELECTIVE CONTROL/TRANSFER RELAY
86	CARRIER/PILOT WIRE RECEIVER RELAY
87	LOCKOUT RELAY
87G	DIFFERENTIAL PROTECTIVE RELAY
87T	GENERATOR DIFFERENTIAL RELAY
89	TRANSFORMER DIFFERENTIAL RELAY
90	LINE ISOLATING SWITCH
94	REGULATING DEVICE
95	TRIPPING RELAY
	SUPERVISION ALARM

**METERING SYSTEMS AND DEVICES INDEX**

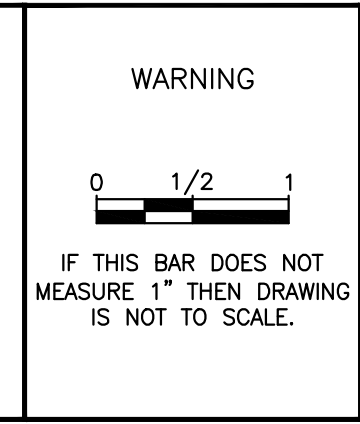
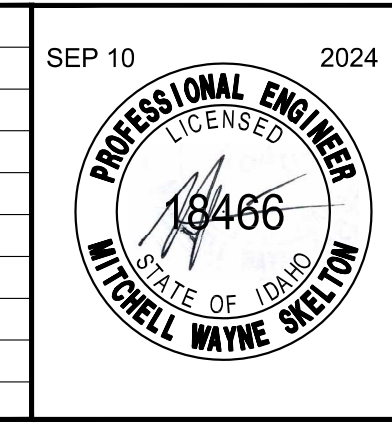
A	AMMETER
Ahr	AMPERE HOUR METER
AS	AMMETER SELECTOR SWITCH
C	COUNTER
CMC	CONTACT MAKING CLOCK
D	DEMAND METER
ET	ELAPSE TIME METER
F	FREQUENCY METER
G	GALVANOMETER
GFD	GROUND FAULT DETECTOR
HZ	FREQUENCY METER
KV	KILO-VOLTMETER
KW	KILO-WATTMETER
KWH	KILO-WATT HOUR METER
mA	MILLI-AMMETER (TRANSDUCER)
OHM	OHMMETER
OSC	OSCILLOGRAPH
PH	PHASE METER
PI	POSITION INDICATOR
PF	POWER FACTOR METER
REC	RECORDER
RF	REACTIVE FACTOR METER
SYN	SYNCHROSCOPE
T	TEMPERATURE METER
TLM	TELEMETER
V	VOLTMETER
VAR	VARMETER
VRHr	VAR HOUR METER
VS	VOLTMETER SELECTOR SWITCH
W	WATTMETER
Whr	WATT HOUR METER

**PILOT - INDICATOR LIGHT INDEX**

A	AMBER
B	BLUE
C	CLEAR
G	GREEN
NE	NEON
O	ORANGE
OP	OPALESCENT
P	PURPLE
R	RED
W	WHITE
Y	YELLOW

- GENERAL NOTES:**
- THESE ABBREVIATIONS APPLY TO THE ELECTRICAL DISCIPLINE OF CONTRACT DRAWINGS ONLY.
  - LISTING OF ABBREVIATIONS DOES NOT IMPLY ALL ABBREVIATIONS ARE USED IN THE CONTRACT DRAWINGS.
  - ABBREVIATIONS SHOWN ON THIS SHEET INCLUDE VARIATIONS OF THE WORD. FOR EXAMPLE, "AT" MAY MEAN AMPERE TRIP OR AUTO; "NO" MAY MEAN NORMALLY OPEN OR NUMBER; "PB" MAY MEAN EITHER PULLBOX OR PUSH BUTTON.
  - SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.

0	9/10/24	MDM	ISSUED FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION



CITY OF BOISE  
 J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
 BOISE WHITEWATER PARK  
 STANDARD ELECTRICAL ABBREVIATIONS  
 AND DEVICE INDEXES

DESIGNED M. SKELTON  
 DRAWN R. WOOD  
 CHECKED M. McMILLEN  
 ISSUED DATE 9/10/24

DRAWING  
**GE001**  
 SHEET 28 OF 40  
 SCALE: AS NOTED



**FIRE ALARM/DETECTION SYSTEM**

- FIRE ALARM PANEL
- REMOTE ANNUNC PANEL
- MANUAL PULL STATION
- GAS MAN RELEASE STN
- GAS MAN ABORT STN
- F.A. BELL
- F.A. SIREN
- DUCT SMOKE DETECTOR
- THERMAL DETECTOR
- IONIZATION DETECTOR
- FIRE WATER VALVE LIMIT
- SMOKE DETECTOR
- FLOW SWITCH
- PRESSURE SWITCH
- THERMAL/SMOKE DETECTOR
- END OF LINE DEVICE

**PRIVATE TELEPHONE SYSTEM**

- SWITCHBOARD
- TERMINAL CABINET
- DESK PHONE
- WALL PHONE

**PRIVATE ETHERNET NETWORK SYSTEM**

- DATA JACK
- VOICE/DATA JACK

**PAGE/SOUND SYSTEM**

- AMPLIFIER
- SPEAKER, WALL MTD
- SPEAKER, CEIL MTD
- HORN, WALL MTD
- HORN, CEIL MTD
- MICROPHONE
- HANDSET

**TELEVISION SYSTEM**

- TV JACK
- TV JACK
- TV JACK

**INTRUSION ALARM/ACCESS SYSTEM**

- CENTRAL ALARM PANEL
- REMOTE ANNUNC PANEL
- MANDOOR ALARM CONTACT
- VEHICLE DOOR ALARM CONTACT
- WINDOW ALARM CONTACT
- ELECTRIC DOOR ACCESS CONTROL
- CARD DOOR ACCESS CONTROL
- KEY ACTIVATED STATION
- I.A. BELL
- I.A. SIREN
- PUSHBUTTON DOOR ACCESS
- PHOTO ELECTRIC DOOR ACCESS
- MOTION DETECTOR

**CLOCK SYSTEM**

- MASTER CLOCK
- SECONDARY CLOCK

**WATCHMANS SYSTEM**

- CONTROL/CENTRAL STATION
- KEY STATION

**CCTV SYSTEM**

- CAMERA FIXED POSITION
- CAMERA ROTATING
- CCTV MONITOR
- CCTV MONITOR

**LOW VOLTAGE ELECTRICAL DEVICES**

- CIRCUIT BREAKER SWITCH
- UNFUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- MOTOR STARTER MANUAL
- MOTOR STARTER MAGNETIC
- MOTOR STARTER MAG. COMBINATION C.B. SW.
- MOTOR STARTER MAG. COMBINATION FUSED D.S.
- PUSHBUTTON SW. EMERG. STOP
- PUSHBUTTON SW. STOP/START
- PUSHBUTTON STATION
- SELECTOR SWITCH
- FLOAT SWITCH
- LEVEL SWITCH
- BIN LEVEL SWITCH
- LIMIT SWITCH
- PRESSURE SWITCH
- ELECTRICAL/PNEUMATIC SWITCH
- PRESSURE TRANSMITTER
- SOLENOID VALVE
- THERMOSTAT
- TEMPERATURE SWITCH
- BASEBOARD HEATER
- CEILING HEATER
- WALL HEATER WITH FAN
- BLOWER UNIT HEATER
- FAN WALL MOUNT
- FAN CEILING MOUNT
- ELECTRIC MOTOR VERTICAL MTD
- ELECTRIC MOTOR HORIZONTAL MTD
- UTILITY METER

**CONTROL ELECTRICAL DEVICES**

- SPST SWITCH
- 3 WAY SWITCH; LETTER INDICATES LIGHTING CIRCUIT
- SPST WEATHERPROOF SWITCH
- MOTOR SWITCH, NONFUSED
- WALL MOUNTED OCCUPANCY SENSOR
- CEILING MOUNTED OCCUPANCY SENSOR
- DUPLEX RECEPTACLE
- SINGLE RECEPTACLE
- DUPLEX WEATHERPROOF RECEPTACLE
- DUPLEX GROUND FAULT INTERRUPTER RECEPT
- CLOCK RECEPTACLE
- FLOOR RECEPTACLE
- SPECIAL PURPOSE RECEPTACLE

**ELECTRICAL LIGHTING FIXTURES**

- SURFACE/PENDANT FLUORESCENT
- SURFACE/PENDANT FLUORESCENT, NIGHT LIGHT / EMERGENCY
- RECESSED FLUORESCENT
- RECESSED FLUORESCENT, NIGHT LIGHT / EMERGENCY
- LIGHT FIXTURE SURFACE/PENDANT CEILING MOUNT
- LIGHT FIXTURE SURFACE WALL MOUNT
- LIGHT FIXTURE RECESSED CEILING MOUNT
- LIGHT FIXTURE RECESSED WALL MOUNT
- HAZARD LIGHT FIXTURE CEILING MOUNT
- EXIT LIGHT FIXTURE SURFACE/PENDANT CEILING MOUNT
- EXIT LIGHT FIXTURE SURFACE WALL MOUNT
- EXIT LIGHT FIXTURE RECESSED WALL MOUNT
- EMERGENCY LIGHT FIXTURE SURFACE/PENDANT CEILING MOUNT
- EMERGENCY LIGHT FIXTURE SURFACE WALL MOUNT
- EMERGENCY LIGHT FIXTURE RECESSED CEILING MOUNT
- EMERGENCY LIGHT FIXTURE RECESSED WALL MOUNT
- EMERGENCY LIGHTING UNIT, 1 HEAD
- EMERGENCY LIGHTING UNIT, 2 HEAD
- EMERGENCY LIGHTING UNIT, 3 HEAD
- SURFACE MTD. DISTR. PANELBOARD
- FLUSH MTD. DISTR. PANELBOARD

**POWER DISTRIBUTION/GROUNDING/ROADWAY LIGHTING**

- POLE CONCRETE
- POLE WOOD
- POLE MOUNTED TRANSFORMER
- DOWN GUY
- SIDEWALK GUY
- MANHOLE
- HANDHOLE
- VAULT
- PAD MOUNTED SWITCH
- TRANSFORMER VAULT
- PAD MOUNTED TRANSFORMER
- GROUND ROD
- GROUND ROD WITH ACCESS BOX
- GROUND CONNECTION EXOTHERMIC
- GROUND CONNECTION MECHANICAL BOLTED
- GROUND CONNECTION TO PIPE RACK
- GROUND COIL (PIGTAIL) 5'0" (1.5M)
- GROUND GRADIENT MAT (SAFETY MAT) 4'X 4'
- GROUND GRADIENT MAT (SAFETY MAT) 4'X 6'
- LF-1 STREET LIGHT & BRACKET, 1 FIXTURE
- LF-1 STREET LIGHT & BRACKET, 2 FIXTURE
- LF-1 STREET LIGHT & BRACKET, 3 FIXTURE
- LF-1 STREET LIGHT & BRACKET, 4 FIXTURE

REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION

SEP 10 2024  
  
 PROFESSIONAL ENGINEER  
 LICENSED  
 18466  
 STATE OF IDAHO  
 MITCHELL WAYNE SKELTON

WARNING  
  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CITY OF BOISE  
 J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
 BOISE WHITEWATER PARK

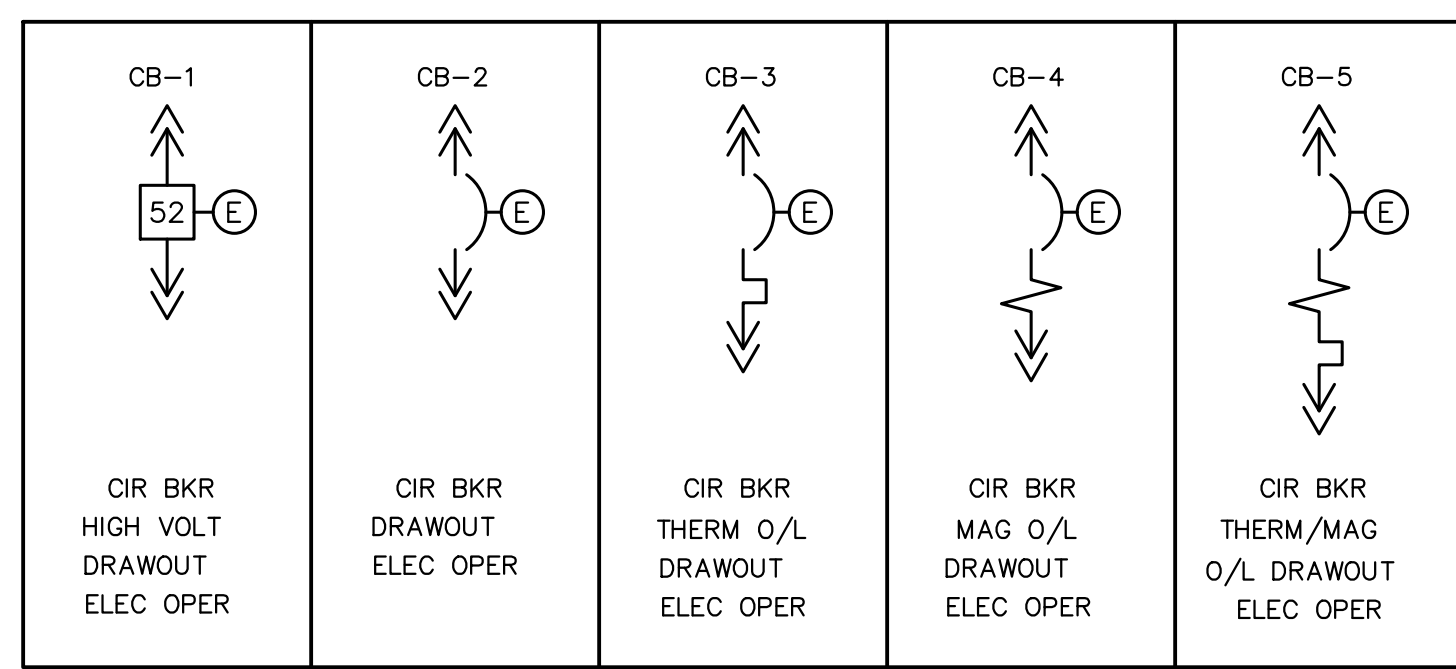
ELECTRICAL STANDARD SYMBOLS 1

DESIGNED M. SKELTON  
 DRAWN R. WOOD  
 CHECKED M. McMILLEN  
 ISSUED DATE 9/10/24

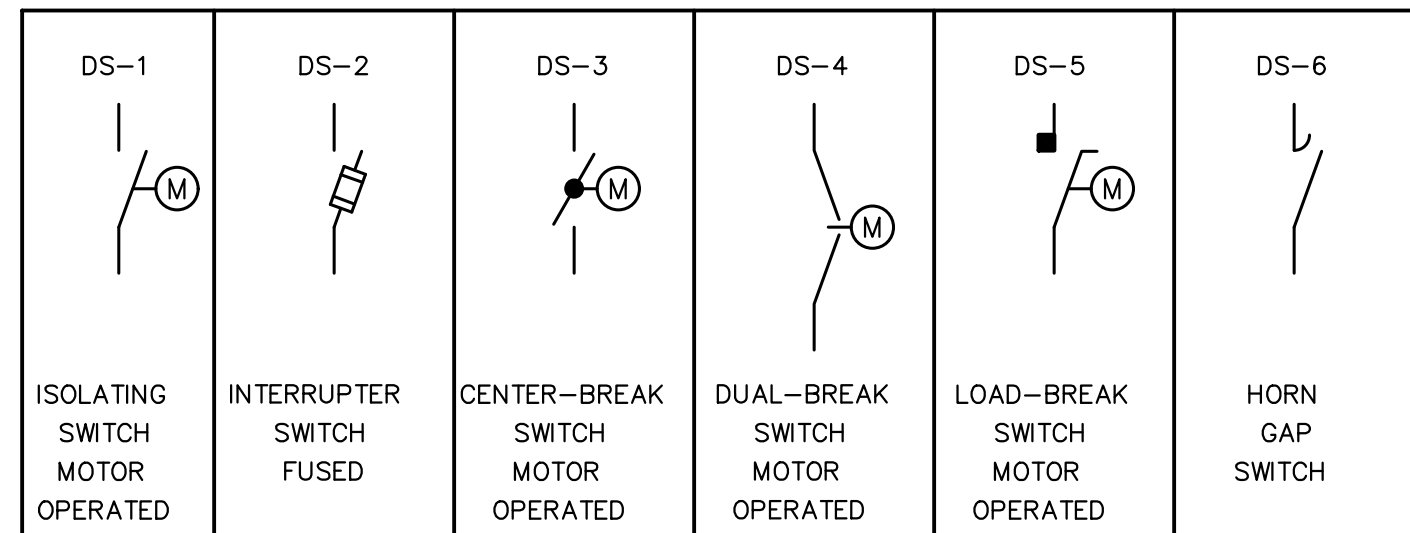
DRAWING  
**GE002**  
 SHEET 29 OF 40  
 SCALE: AS NOTED

Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\GE002.dwg Plot date: Sep 09, 2024 12:16pm  
 JOB NO. 13-108

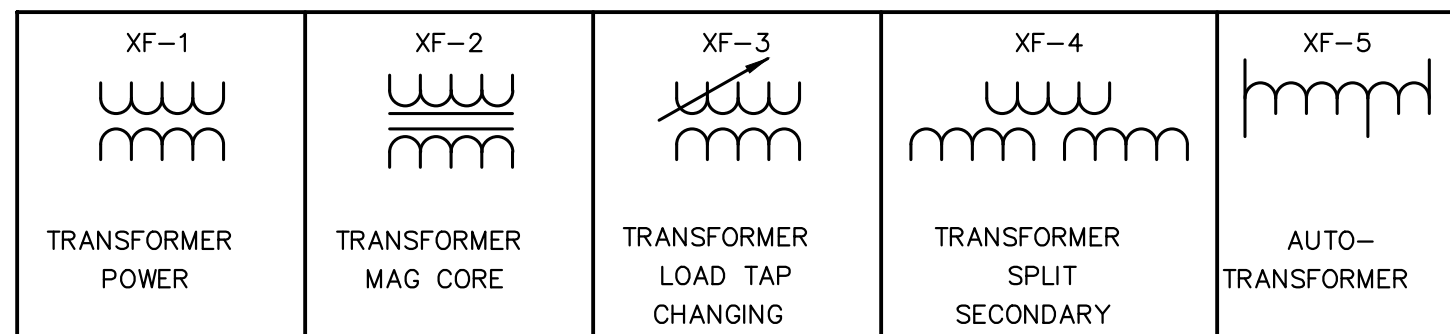




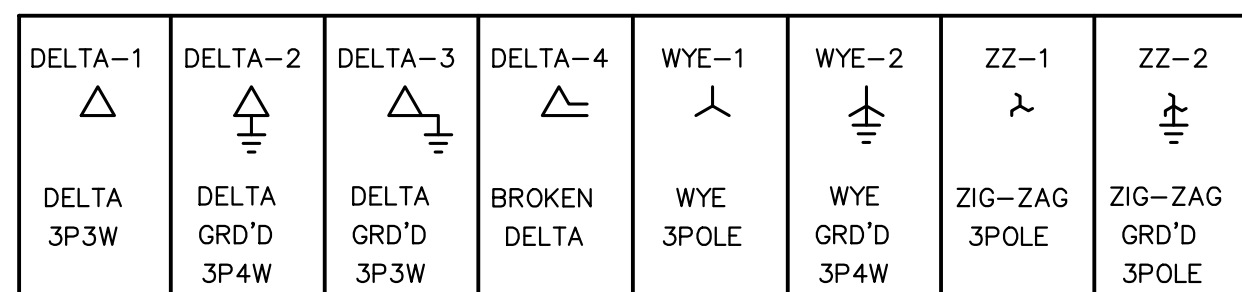
**CIRCUIT BREAKER SYMBOLS**



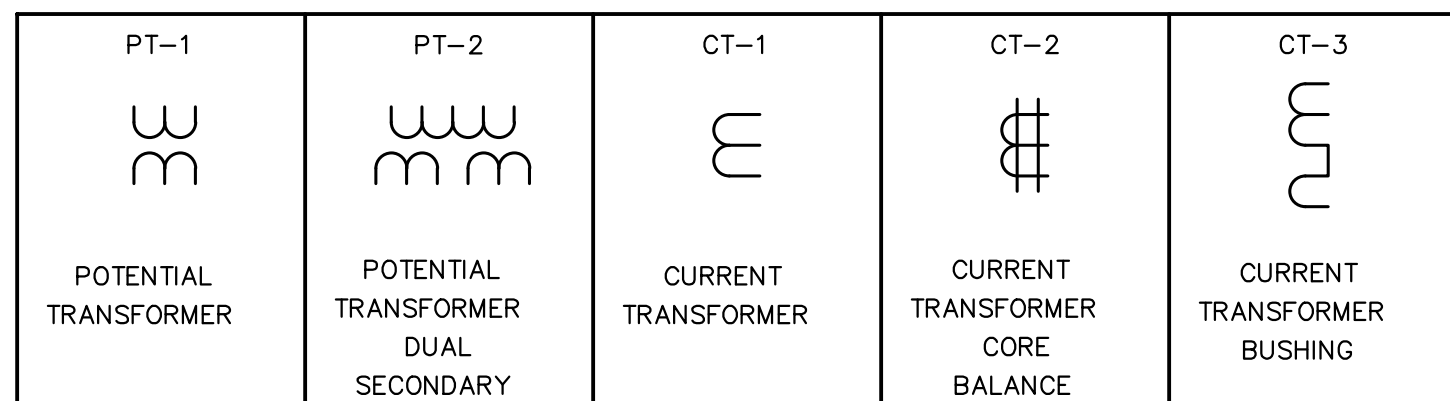
**H.V. ISOLATING SWITCHES**



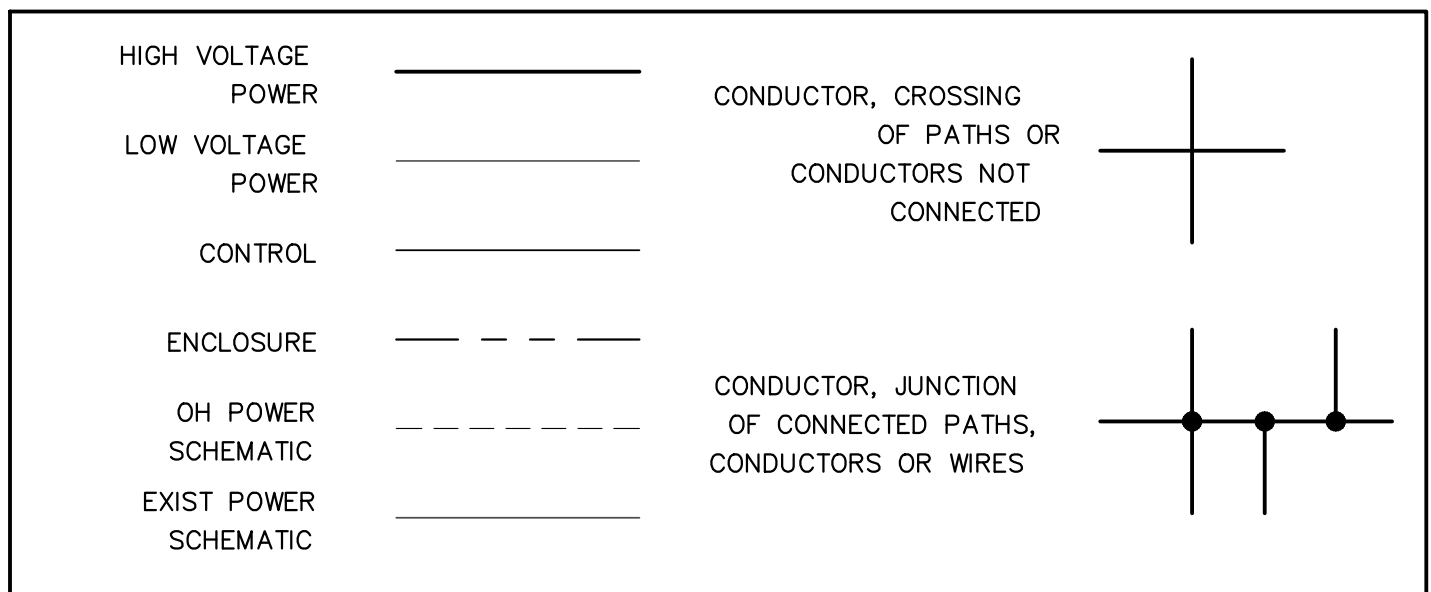
**POWER TRANSFORMER SYMBOLS**



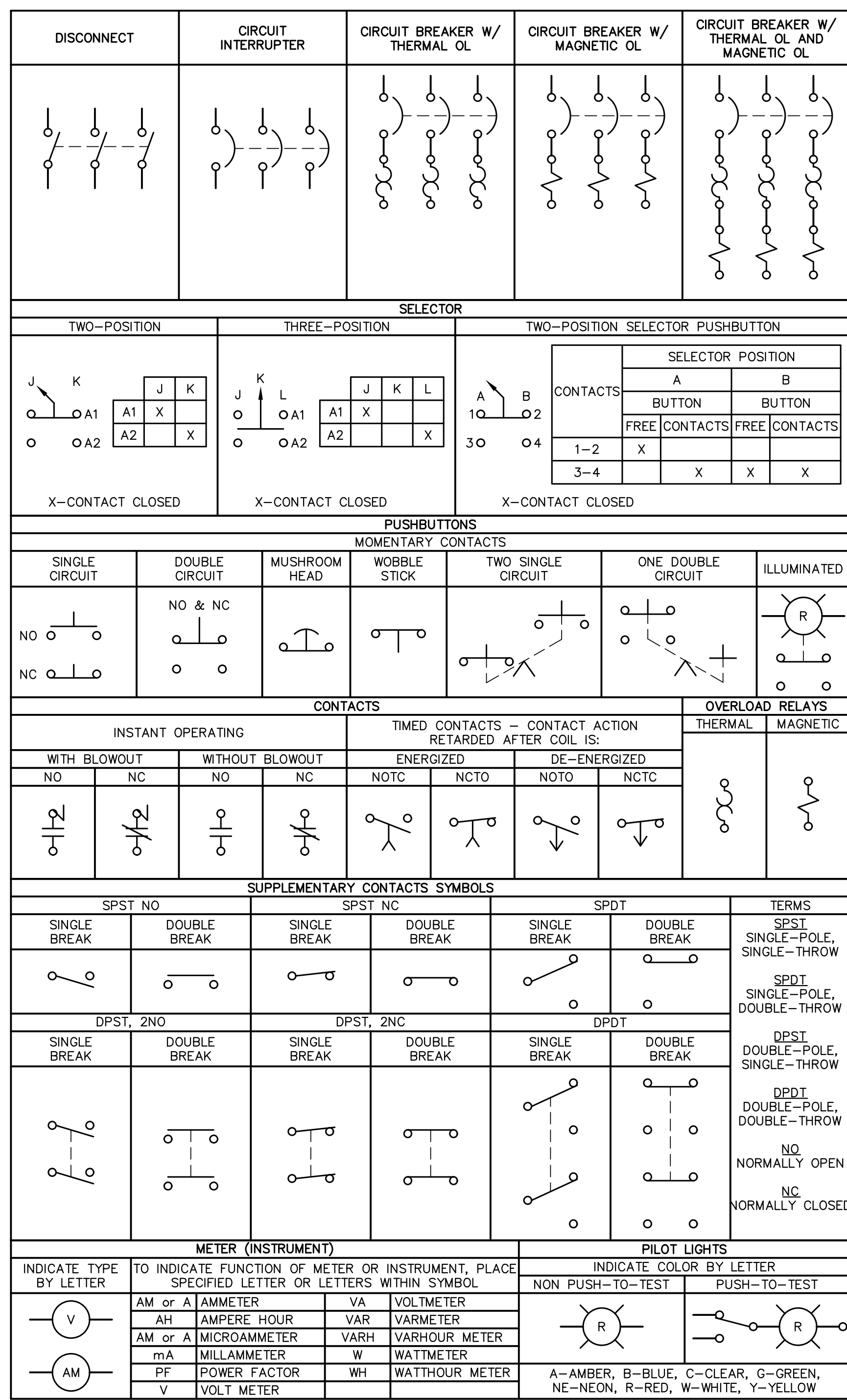
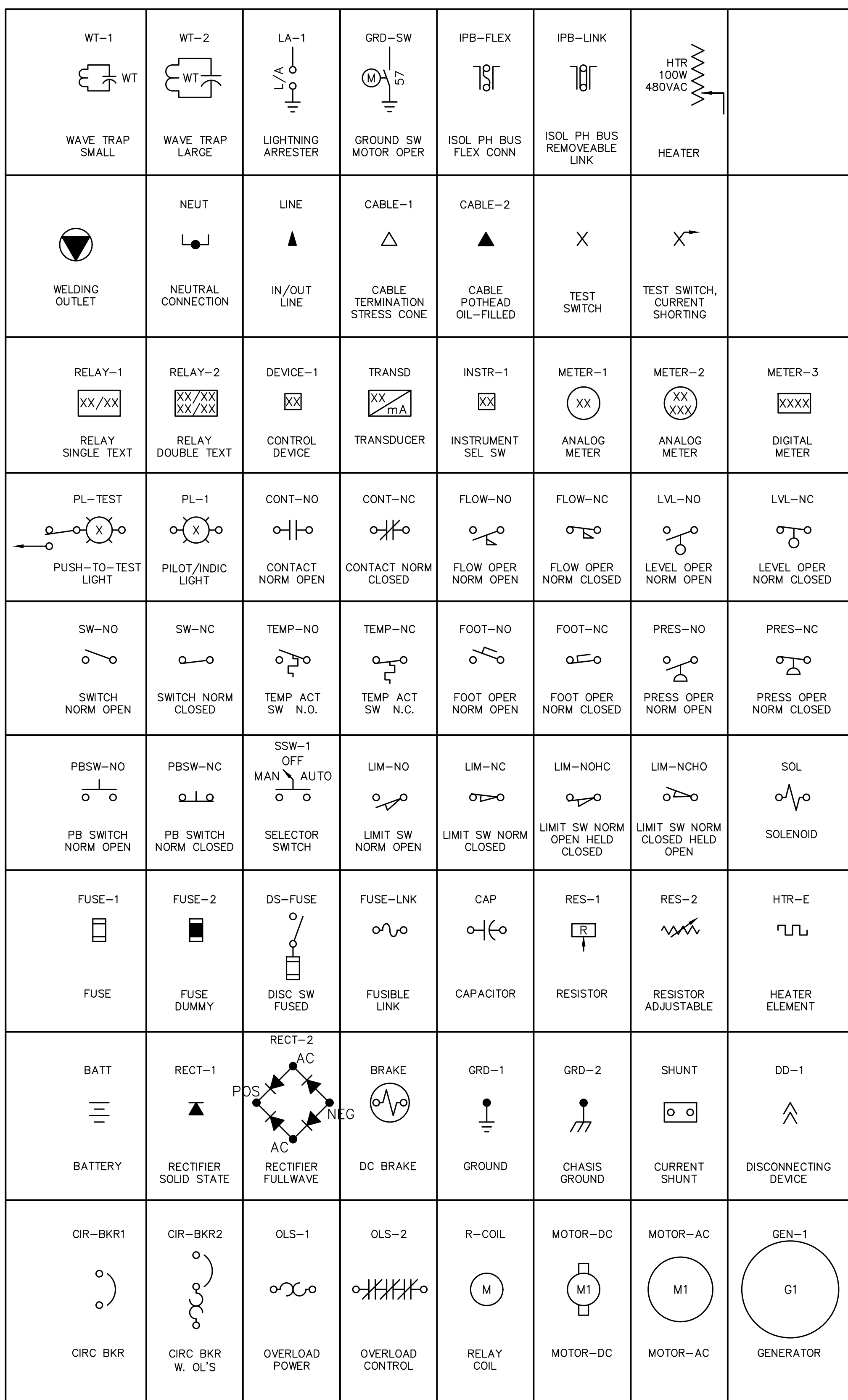
**TRANSFORMER WINDING CONNECTIONS**



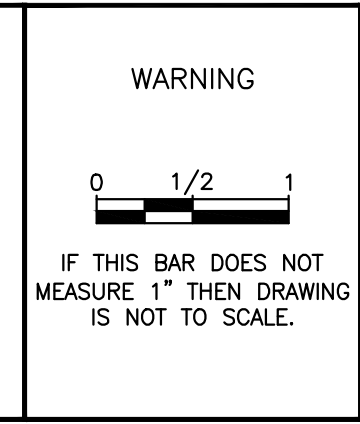
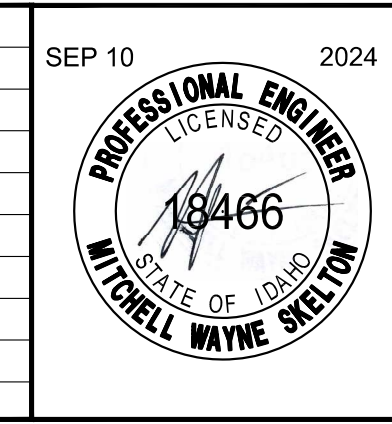
**POTENTIAL/CURRENT TRANSFORMER SYMBOLS**



**LINETYPE AND CONNECTION SYMBOLS**



REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



CITY OF BOISE  
J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
BOISE WHITEWATER PARK

ELECTRICAL STANDARD SYMBOLS 2

DESIGNED	M. SKELTON
DRAWN	R. WOOD
CHECKED	M. McMILLEN
ISSUED DATE	9/10/24

DRAWING	GE003
SHEET	30 OF 40
SCALE	AS NOTED

Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mcloughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\GE003.dwg Plot date: Sep 09, 2024 12:16pm

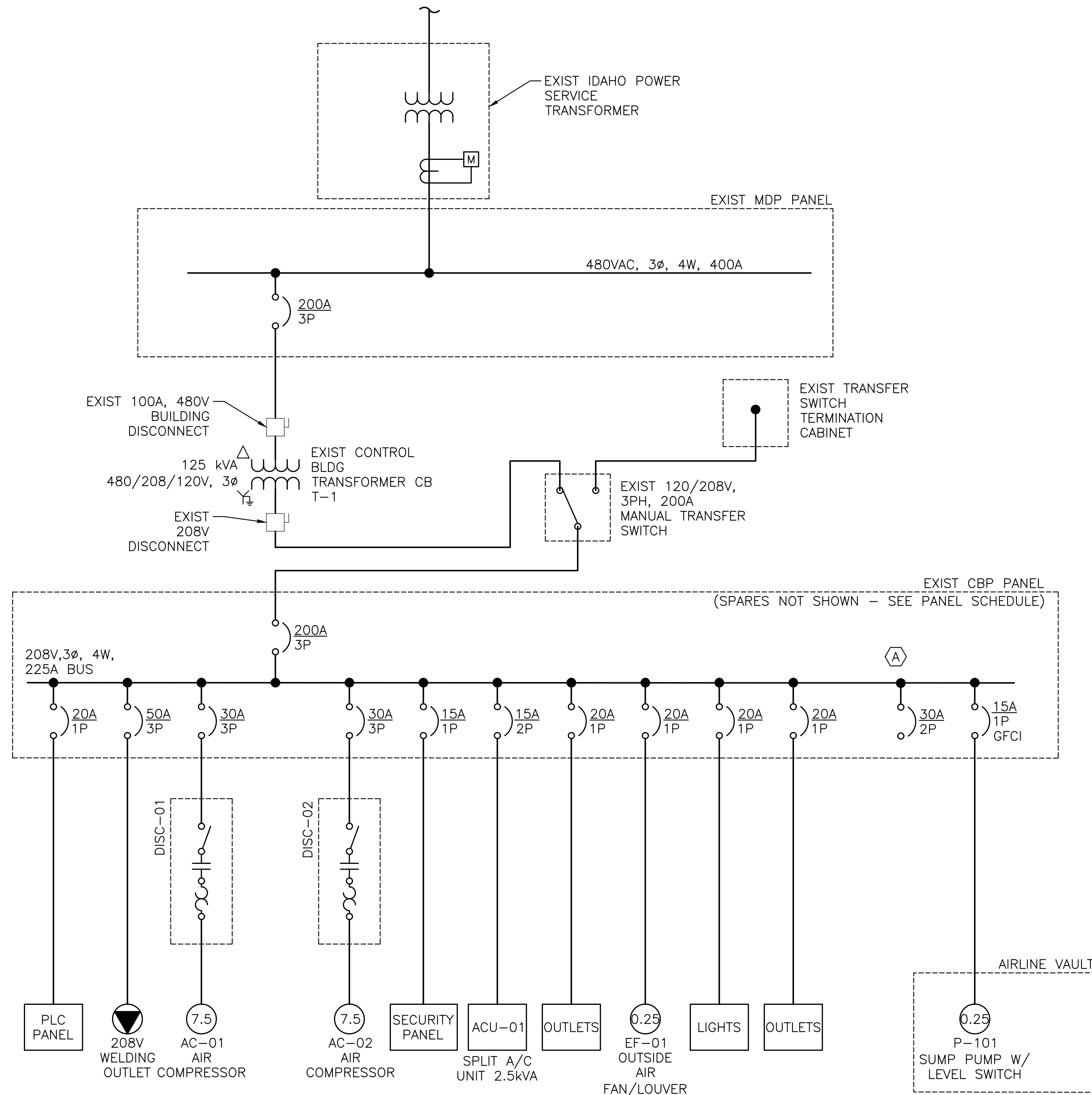
SHEET KEY NOTES:

A DE-ENERGIZE AND DEMOLISH WIRING FROM BREAKER PREVIOUSLY FEEDING VAULT HEATER.

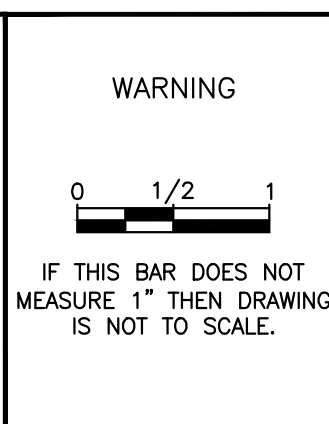
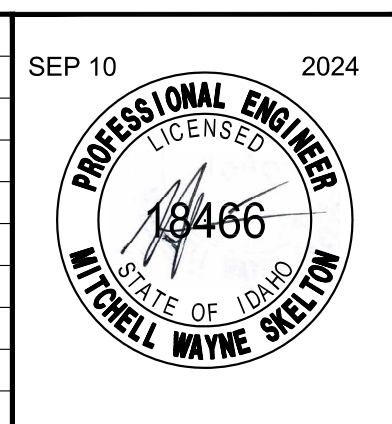
SHEET NOTES:

1. EXISTING EQUIPMENT SHOWN ON THIS DRAWING PROVIDED BASED ON RECORD DRAWINGS FROM AUGUST 30, 2019. VERIFY FIELD CONDITIONS PRIOR TO PERFORMING MODIFICATIONS.

PANEL SCHEDULE															
CBP PANELBOARD		LOCATION: CONTROL BUILDING					PROJECT: BOISE WHITEWATER PARK								
120/208V, 3PH, 4W		225A Bus		200A MCB	NEMA 1			SOURCE OF SUPPLY: TRANSFORMER CB T-1 VIA MANUAL TRANSFER SWITCH							
MOUNTING: SURFACE		AVAIL. FAULT: 24 kA RMS			DEMAND LOAD: 114.3 A			DATE: 08/11/2023		NEUTRAL: ISOLATED					
CKT	DESCRIPTION	LOAD VA	LOAD TYPE	LOAD AMP	CB AMP	CB POLE	PHASE	CB POLE	CB AMP	LOAD AMP	LOAD TYPE	LOAD VA	DESCRIPTION	CKT	
1	SUMP PUMP IN VAULT (P-101) (GFCI)	696	M	5.8	15	1	A	1	20	3.0	R	360	RECEPTACLES	2	
3	SPARE			0.0	30	2	B	1	20	1.5	R	180	RECEPTACLES	4	
5							C	1	20	5.8	M	696	OUTSIDE AIR FAN (EF-01)/LOUVER	6	
7	AIR COMPRESSOR (AC-01)	2,880	LM	24.0	30	3	A	1	20	2.9	L	350	LIGHTS	8	
9		B	1				15	0.0			SPARE	10			
11		C	1				15	5.0	C	600	SECURITY PANEL	12			
13	AIR COMPRESSOR (AC-02)	2,880	M	24.0	30	3	A	1	20	8.3	C	1,000	PLC PANEL (CP-03)	14	
15		B	1				15	0.0			SPARE	16			
17		C	1				15	0.0			SPARE	18			
19	208V WELDING OUTLET	4,800	G	40.0	50	3	A	2	15	12.0	C	1,248	SPLIT A/C UNIT	20	
21		B	C				1,248				22				
23		C										SPARE		24	
25	SPARE			0.0	60	3	A	2	40	0.0			SPARE	26	
27							B							SPARE	28
29							C							SPARE	30
31	SPARE			0.0	40	3	A	3	60	0.0			SPARE	32	
33							B							SPARE	34
35							C							SPARE	36
37	SPARE			0.0	100	3	A	3	100	0.0			SPARE	38	
39							B							SPARE	40
41							C							SPARE	42



REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



CITY OF BOISE  
 J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
 BOISE WHITEWATER PARK

DESIGNED M. SKELTON  
 DRAWN R. WOOD  
 CHECKED M. McMILLEN  
 ISSUED DATE 9/10/24

ONE LINE DIAGRAM

DRAWING  
**E001**  
 SHEET 31 OF 40  
 SCALE: AS NOTED

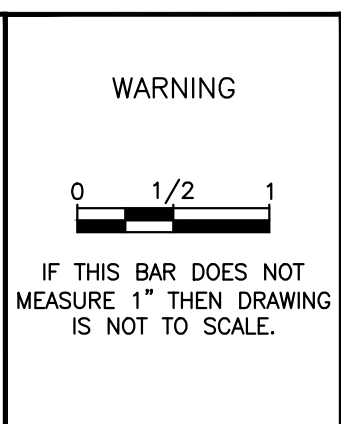
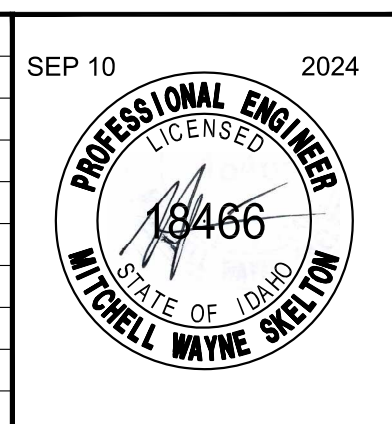
Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\E001.dwg Plot date: Sep 09, 2024 12:16pm



CIRCUIT SCHEDULE										
CABLE FIELD ID	CABLE INDEX ID	STATUS	CABLE TYPE	CABLE	VOLTAGE/TYPE	FROM	THROUGH	TO	CONDUIT INDEX ID	DESCRIPTION
	C001	EXIST	SIGNAL	TSP/MSC	4-20mA	CP-03	JB3 IN VAULT	ZT-1	R003, R011	SIGNAL FOR GATE INCLINOMETER 1
	C002	EXIST	SIGNAL	TSP/MSC	4-20mA	CP-03	JB3 IN VAULT	ZT-2	R003, R012	SIGNAL FOR GATE INCLINOMETER 2
	C003	EXIST	SIGNAL	TSP/MSC	4-20mA	CP-03	JB3 IN VAULT	ZT-3	R003, R013	SIGNAL FOR GATE INCLINOMETER 3
	C004	EXIST	SIGNAL	TSP/MSC	4-20mA	CP-03	JB3 IN VAULT	ZT-4	R003, R014	SIGNAL FOR GATE INCLINOMETER 4
	C005	EXIST	SIGNAL	TSP/MSC	4-20mA	CP-03	JB3 IN VAULT	ZT-5A	R003, R015	SIGNAL FOR GATE INCLINOMETER 5A
	C006	NEW	SIGNAL	TSP/MSC	4-20mA	CP-03	JB3 IN VAULT	ZT-5B	R003, R015	SIGNAL FOR GATE INCLINOMETER 5B
	C007	EXIST	SIGNAL	TSP/MSC	4-20mA	CP-03	JB3 IN VAULT	ZT-6A	R003, R016	SIGNAL FOR GATE INCLINOMETER 6A
	C008	NEW	SIGNAL	TSP/MSC	4-20mA	CP-03	JB3 IN VAULT	ZT-6B	R003, R016	SIGNAL FOR GATE INCLINOMETER 6B
	C009	EXIST	SIGNAL	TSP/MSC	4-20mA	CP-03	JB3 IN VAULT	ZT-7	R003, R017	SIGNAL FOR GATE INCLINOMETER 7
	C010	NEW	SIGNAL	TSP/MSC	4-20mA	CP-03	JB3 IN VAULT	ZT-8	R003, R018	SIGNAL FOR GATE INCLINOMETER 8
	C011	EXIST	POWER	2#12, 1#12G	120V, 1PH	CBP	CP-03, JB2 IN VAULT	P-101	R001, R002, R009	POWER FOR VAULT SUMP PUMP
	C012	NEW	SIGNAL	TSP	4-20mA	CP-03	JB3 IN VAULT, EXIST STILLING WELL	LE-1	R003, R007, R008	SIGNAL FOR WATER LEVEL SENSOR 1
	C013	NEW	SIGNAL	TSP	4-20mA	CP-03	JB3 IN VAULT, EXIST STILLING WELL	LE-2	R003, R007, R008	SIGNAL FOR WATER LEVEL SENSOR 2
	C014	NEW	SIGNAL	TSP	4-20mA	CP-03	-	CP-04	R010	SIGNAL FOR GATE #5B PRESSURE TRANSMITTER
	C015	NEW	SIGNAL	TSP	4-20mA	CP-03	-	CP-04	R010	SIGNAL FOR GATE #6B PRESSURE TRANSMITTER
	C016	NEW	SIGNAL	TSP	4-20mA	CP-03	-	CP-04	R010	SIGNAL FOR GATE #8 PRESSURE TRANSMITTER
	C017	NEW	CONTROL	3#14	24VDC	CP-03	-	CP-04	R020	CONTROL FOR GATE #5B SOLENOID VALVES
	C018	NEW	CONTROL	3#14	24VDC	CP-03	-	CP-04	R020	CONTROL FOR GATE #6B SOLENOID VALVES
	C019	NEW	CONTROL	3#14	24VDC	CP-03	-	CP-04	R020	CONTROL FOR GATE #8 SOLENOID VALVES

RACEWAY SCHEDULE									
CONDUIT FIELD ID	CONDUIT INDEX ID	STATUS	CONDUIT TYPE	CONDUIT SIZE	FROM	THROUGH	TO	CIRCUITS	DESCRIPTION
	R001	EXIST	PVC	2-1/2"C	CBP	-	CP-03	C011	EXIST POWER CONDUIT FOR SUMP PUMP
	R002	EXIST	PVC	2-1/2"C	CP-03	-	JB2 IN VAULT	C011	EXIST POWER CONDUIT FOR SUMP PUMP
	R003	EXIST	PVC	2-1/2"C	CP-03	-	JB3 IN VAULT	C001 THRU C010, C012, C013	EXIST SIGNAL CONDUIT FOR INCLINOMETERS & LEVEL SENSORS
	R004	EXIST	PVC	2"C	CP-03	-	JB4 IN VAULT	-	EXIST SPARE TO JB4
	R005	EXIST	PVC	2"C	CP-03	JB1 IN VAULT	PB2	-	EXIST SPARE TO WEST SHORE PB2
	R006	EXIST	PVC	2"C	CP-03	JB1 IN VAULT	PB2	-	EXIST SPARE TO WEST SHORE PB2
	R007	EXIST	RGS	1"C	JB3 IN VAULT	-	EXIST STILLING WELL	C012, C013	EXIST SIGNAL CONDUIT FOR UPSTREAM LEVEL SENSORS
	R008	NEW	RGS	1"C	EXIST STILLING WELL	-	UPSTREAM STILLING WELL	C012, C013	SIGNAL CONDUIT FOR UPSTREAM LEVEL SENSORS
	R009	EXIST	RGS	1"C	JB2 IN VAULT	-	P-101	C011	EXIST POWER CONDUIT FOR SUMP PUMP
	R010	EXIST	RGS	2-1/2"C	CP-03	-	CP-04	C014, C015, C016	EXIST CONTROL CONDUIT FOR GATE PRESSURE TRANSMITTERS
	R011	EXIST	RGS	1"C	JB3 IN VAULT	-	ZT-1	C001	EXIST SIGNAL CONDUIT TO BLOCKOUT FOR GATE INCLINOMETER 1
	R012	EXIST	RGS	1"C	JB3 IN VAULT	-	ZT-2	C002	EXIST SIGNAL CONDUIT TO BLOCKOUT FOR GATE INCLINOMETER 2
	R013	EXIST	RGS	1"C	JB3 IN VAULT	-	ZT-3	C003	EXIST SIGNAL CONDUIT TO BLOCKOUT FOR GATE INCLINOMETER 3
	R014	EXIST	RGS	1"C	JB3 IN VAULT	-	ZT-4	C004	EXIST SIGNAL CONDUIT TO BLOCKOUT FOR GATE INCLINOMETER 4
	R015	EXIST	RGS	1"C	JB3 IN VAULT	-	ZT-5A/5B	C005, C006	EXIST SIGNAL CONDUIT TO BLOCKOUT FOR GATE INCLINOMETERS 5A & 5B
	R016	EXIST	RGS	1"C	JB3 IN VAULT	-	ZT-6A/5B	C007, C008	EXIST SIGNAL CONDUIT TO BLOCKOUT FOR GATE INCLINOMETERS 6A & 6B
	R017	EXIST	RGS	1"C	JB3 IN VAULT	-	ZT-7	C009	EXIST SIGNAL CONDUIT TO BLOCKOUT FOR GATE INCLINOMETER 7
	R018	NEW	RGS/PVC	1"C	JB3 IN VAULT	-	ZT-8	C010	SIGNAL CONDUIT TO BLOCKOUT FOR GATE INCLINOMETER 8
	R019	EXIST	RGS	1"C	JB3 IN VAULT	-	EXIST STILLING WELL	-	EXIST SPARE CONDUIT TO EXIST STILLING WELL
	R020	NEW	RGS	1"C	CP-03	-	CP-04	C017, C018, C019	CONTROL FOR GATES #5B, #6B, & #8 SOLENOID VALVES

REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



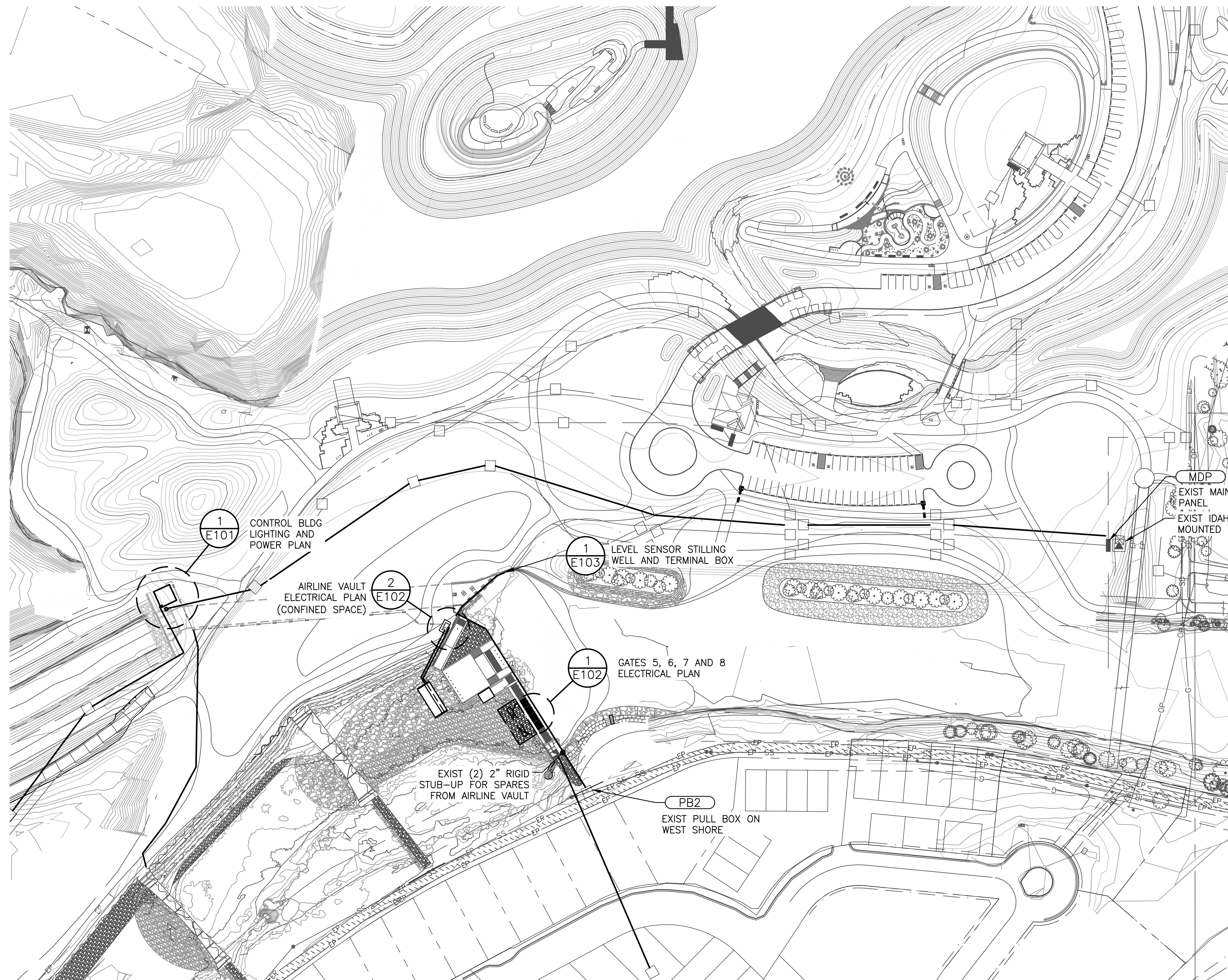
CITY OF BOISE  
J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
BOISE WHITEWATER PARK

RACEWAY AND CIRCUIT SCHEDULES

DESIGNED M. SKELTON  
DRAWN R. WOOD  
CHECKED M. McMILLEN  
ISSUED DATE 9/10/24

DRAWING  
**E002**  
SHEET 32 OF 40  
SCALE: AS NOTED

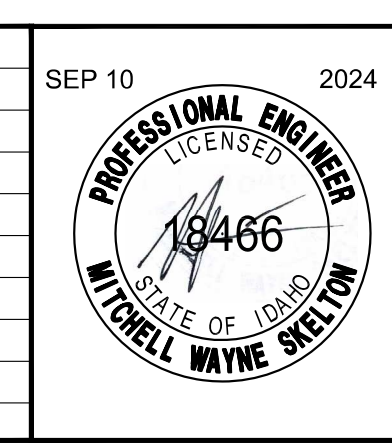




- SHEET GENERAL NOTES:**
1. REFER TO CIVIL PLANS FOR COORDINATION WITH OTHER EXISTING UTILITIES ON SITE AND FOR INSTRUCTIONS REGARDING LOCATING AND VERIFYING ALL EXISTING UNDERGROUND UTILITIES.
  2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN ON CIVIL PLANS IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE REGULATIONS REGARDING UNDERGROUND FACILITIES DAMAGE PREVENTION. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED AS A RESULT OF SITE WORK. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES OR LOCATING SERVICES FOR EXACT UTILITY LOCATIONS A MINIMUM OF 48 HOURS PRIOR TO DIGGING.
  3. PRESERVE AND PROTECT ALL FACILITIES, STRUCTURES, AND LANDSCAPING OUTSIDE OF THE CONSTRUCTION AREA UNLESS NOTED OTHERWISE.
  4. EXISTING EQUIPMENT, DEVICES, AND CONNECTIONS WHERE SHOWN TO REMAIN ARE TO BE PROTECTED DURING ENTIRE CONSTRUCTION PROCESS. PROTECT ALL CONNECTIONS TO KEEP EXISTING EQUIPMENT ACTIVE. WHERE CONNECTIONS ARE DISRUPTED DUE TO CONSTRUCTION ACTIVITIES, REPAIR AND REPLACE DAMAGED CONNECTIONS.
  5. CONTRACTOR TO PROVIDE THE OWNER WITH 24 HOUR NOTICE PRIOR TO DISCONNECTING POWER OR OTHER UTILITIES.
  6. SEE DWG E104 FOR CONDUIT ROUTING PLAN.

**ELECTRICAL SITE PLAN**  
 SCALE: 1" = 80'

REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



**WARNING**

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CITY OF BOISE  
 J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
 BOISE WHITEWATER PARK

ELECTRICAL SITE PLAN

DESIGNED M. SKELTON  
 DRAWN R. WOOD  
 CHECKED M. McMILLEN  
 ISSUED DATE 9/10/24

DRAWING  
**E100**  
 SHEET 33 OF 40  
 SCALE: AS NOTED

Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\E100.dwg Plot date: Sep 09, 2024 12:16pm  
 JOB NO. 13-108

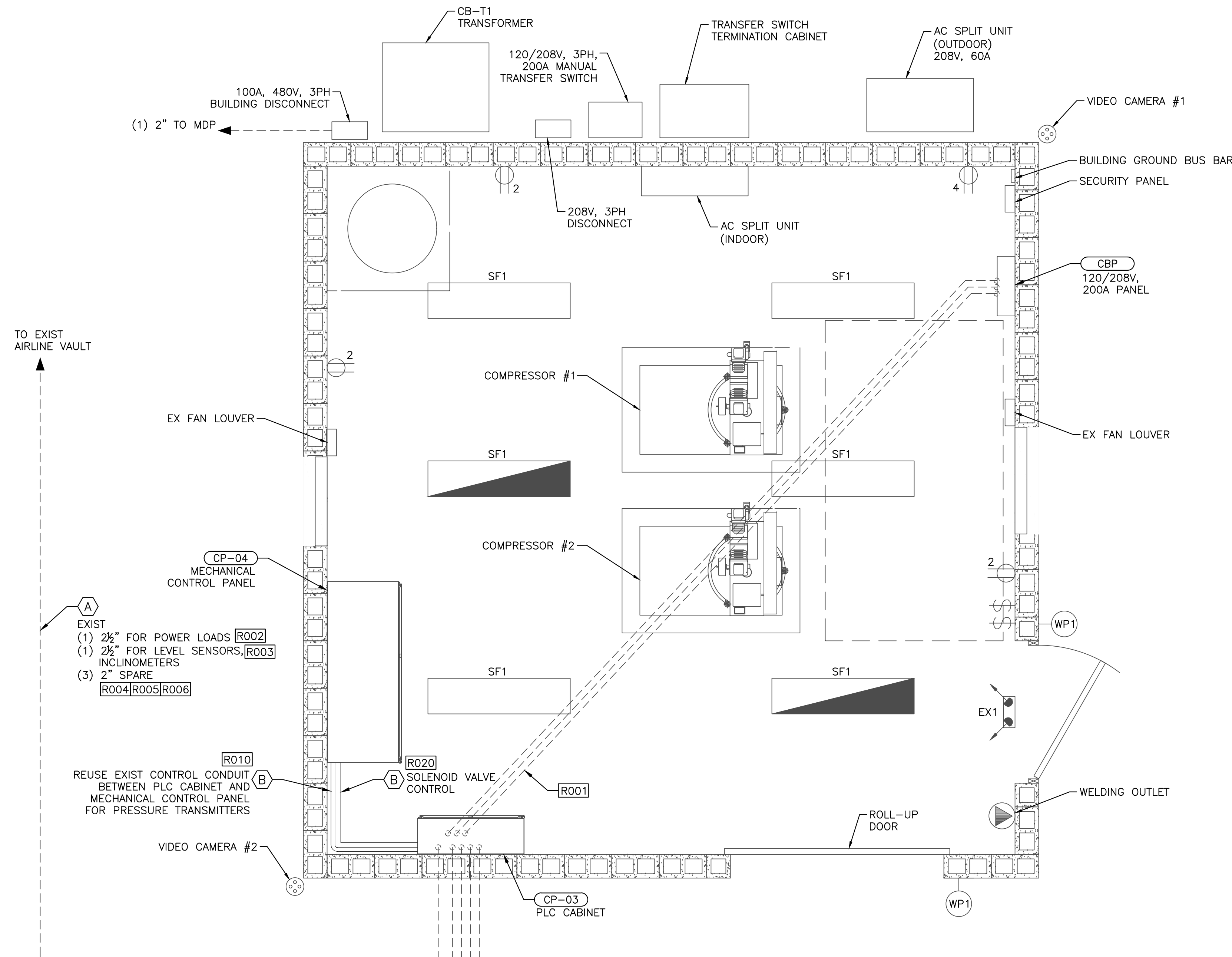


**SHEET KEY NOTES:**

- A REUSE 2.5" CONTROL CONDUIT TO ROUTE EXISTING SENSOR CABLES AND NEW INCLINOMETER CABLES FROM PLC CABINET TO AIR LINE VAULT FOR SPILLWAY GATES #5B, #6B, AND #8. PRESERVE SPARE CONDUITS FOR FUTURE USE.
- B PROVIDE CABLES FOR NEW GATE INFLATE/DEFLATE SOLENOID VALVES IN NEW CONDUIT AND CABLES FOR NEW GATE PRESSURE TRANSMITTER IN EXISTING CONDUIT.

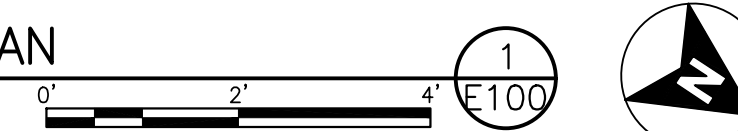
**SHEET NOTES:**

- 1. UNLESS NOTED OTHERWISE, ALL EQUIPMENT SHOWN ON THIS DRAWING IS EXISTING AND PROVIDED AS FIO BASED ON RECORD DRAWINGS FROM AUGUST 30, 2019.
- 2. SEE DRAWING E002 FOR RACEWAY AND CIRCUIT SCHEDULES.

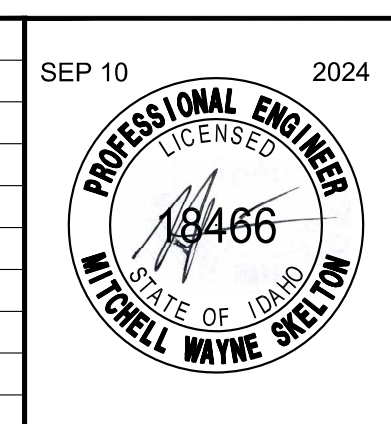


**CONTROL BUILDING LIGHTING AND POWER PLAN**

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



REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



**WARNING**

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



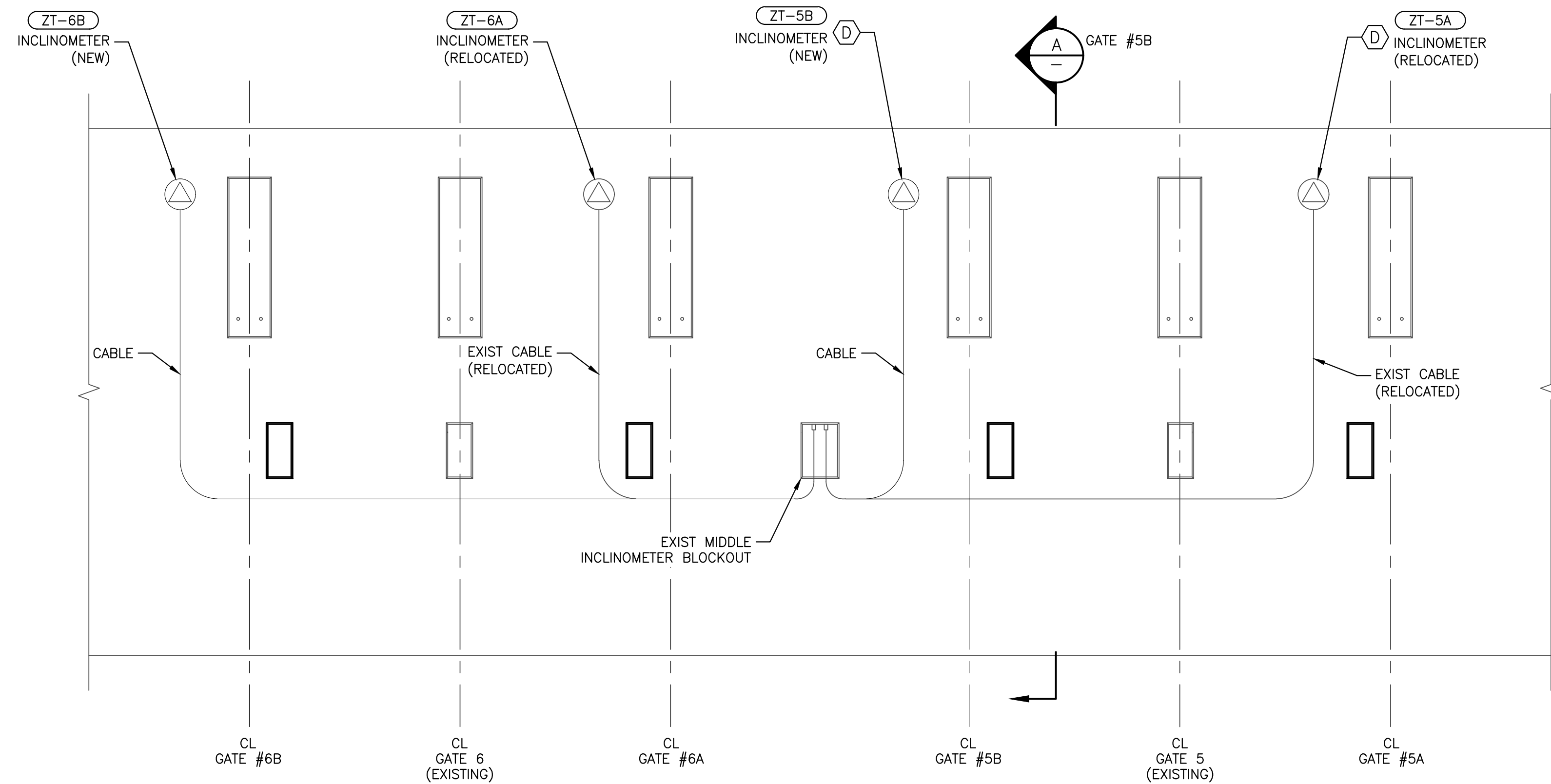
CITY OF BOISE  
J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
BOISE WHITEWATER PARK

CONTROL BUILDING  
LIGHTING AND POWER PLAN

DESIGNED M. SKELTON  
DRAWN R. WOOD  
CHECKED M. McMILLEN  
ISSUED DATE 9/10/24

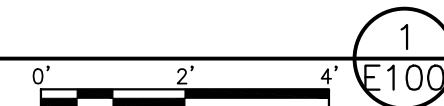
DRAWING  
**E101**  
SHEET 34 OF 40  
SCALE: AS NOTED



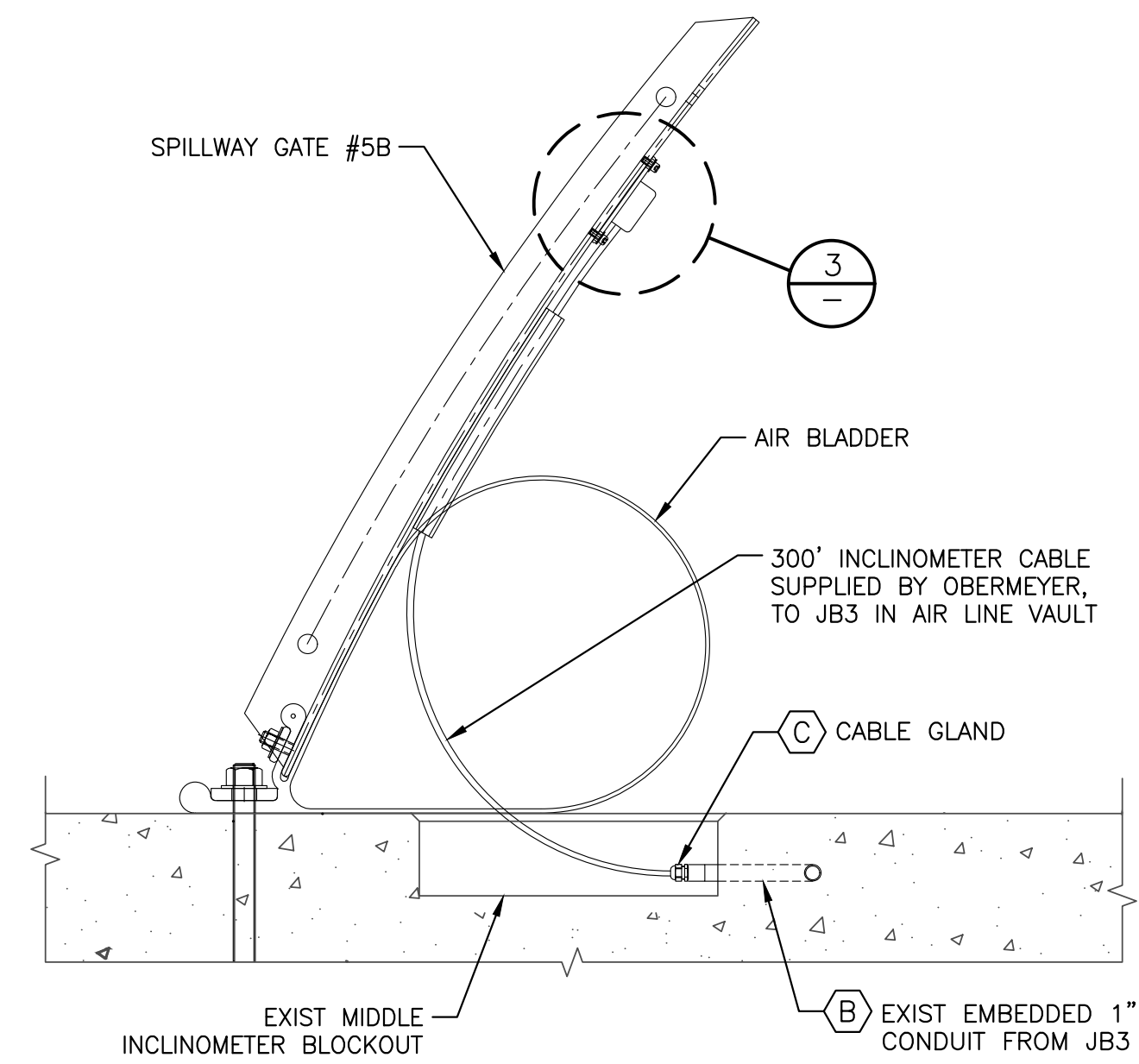


GATES 5A, 5B, 6A AND 6B ELECTRICAL PLAN

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

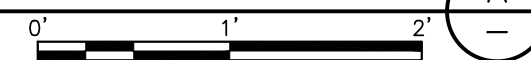


1  
E100

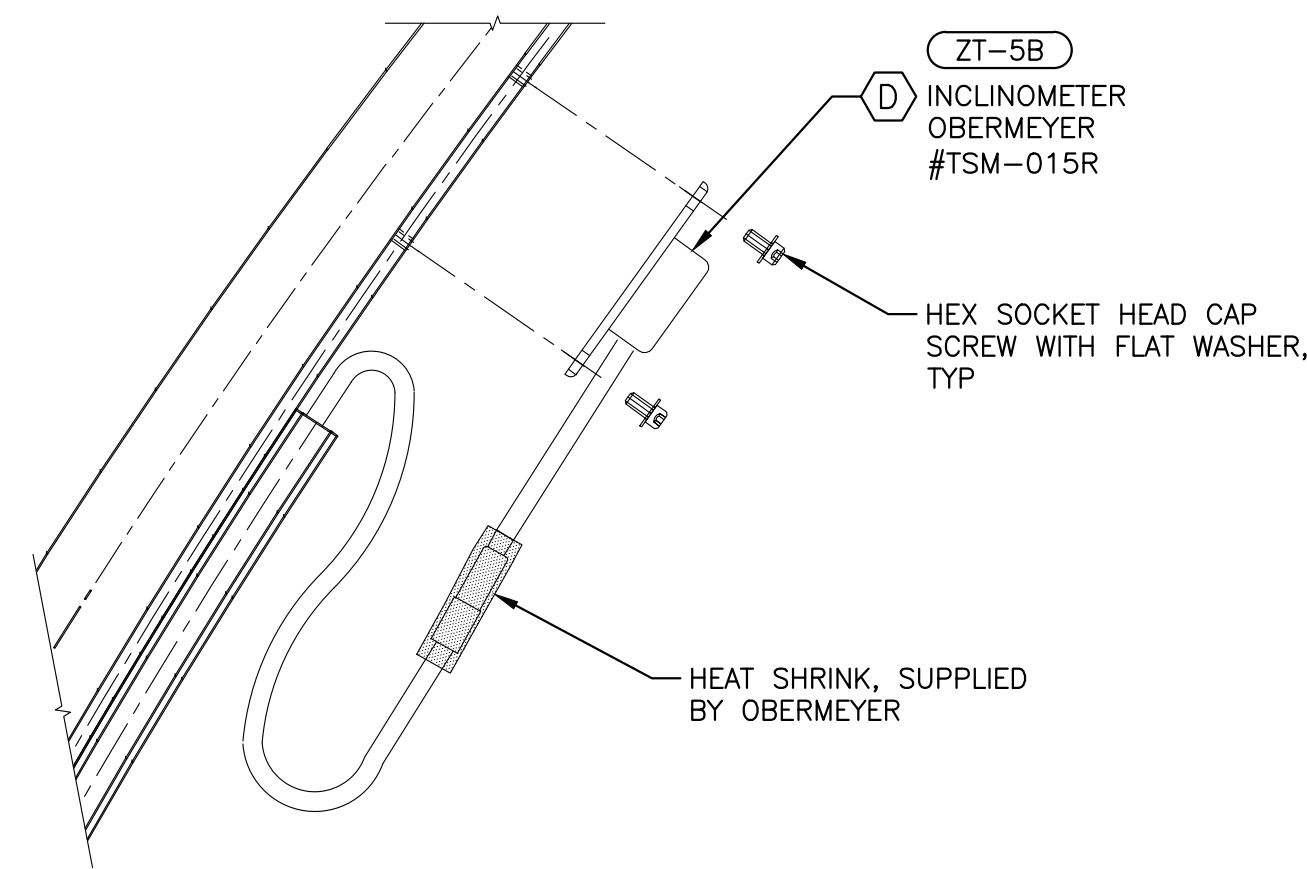


GATE #5B SECTION

SCALE: 1" = 1'-0"



A



INCLINOMETER DETAIL

SCALE: NTS

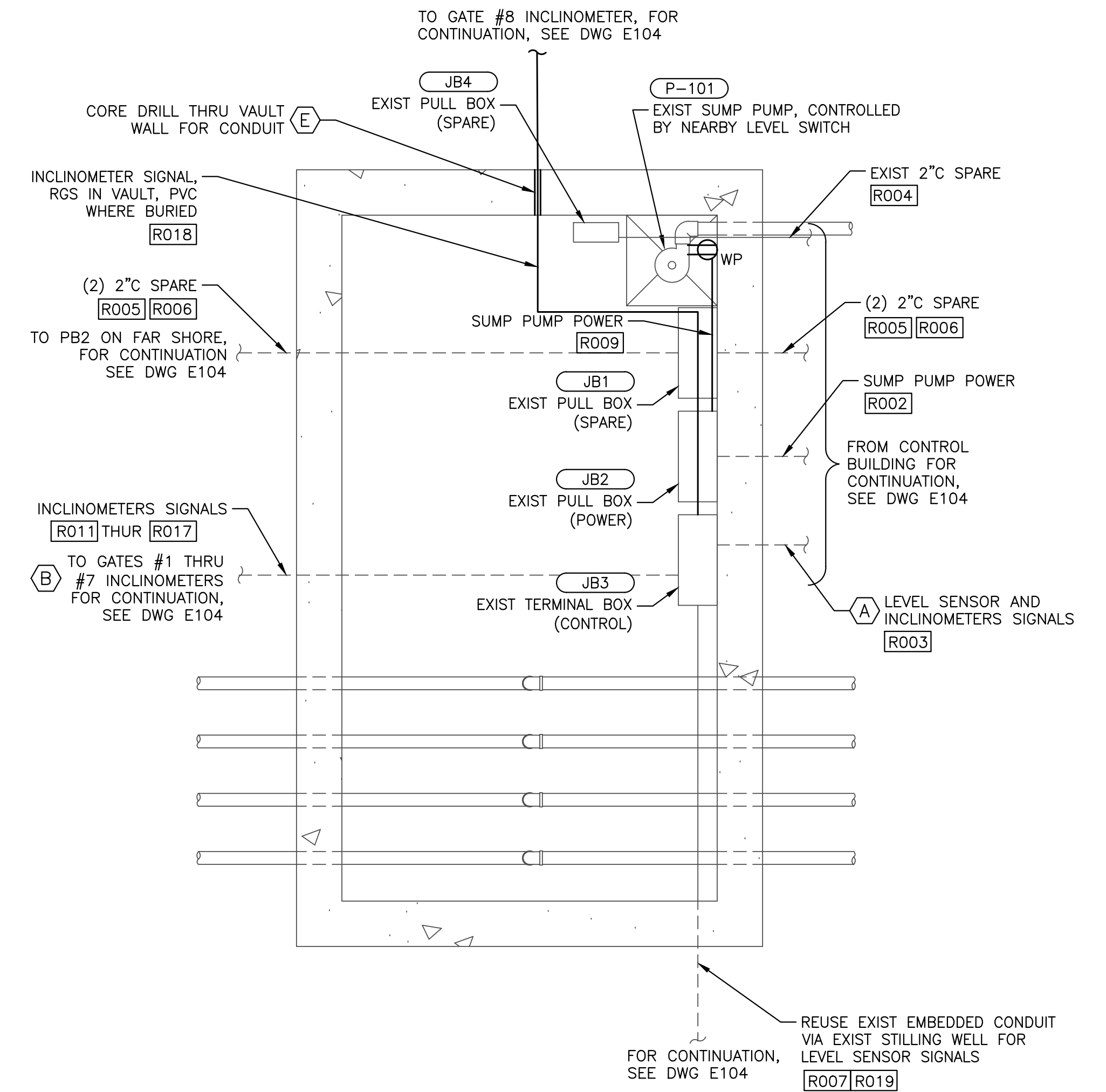
3

SHEET KEY NOTES:

- A REUSE EXISTING 2.5" CONDUIT FROM BUILDING TO EXISTING JB3 FOR LEVEL SENSOR AND INCLINOMETER CIRCUITS. PROVIDE HEAT SHRINK BUTT SPLICES WITHIN JB3 TO SPLICE INCLINOMETER CABLE FROM GATES TO SIGNAL WIRING FROM BUILDING.
- B REUSE EXISTING 1" CONDUITS TO ROUTE GATES #5A, #5B, #6A, AND #6B INCLINOMETER CABLES FROM JB3 TO GATES #5 & #6 MIDDLE INCLINOMETER BLOCKOUT.
- C REPLACE EXISTING GATES #5 & #6 CABLE GLANDS WITH TWO-HOLE CABLE GLANDS AND PULL BOTH EXISTING AND NEW INCLINOMETER CABLES THROUGH IT. SEAL CABLE GLAND AND CONDUIT WITH HEAT SHRINK.
- D RELOCATE EXISTING GATES #5 & #6 INCLINOMETERS TO GATES #5A & #6A. PROVIDE NEW INCLINOMETER ON GATES #5B & #6B.
- E FILL VOID AROUND CONDUIT WITH GROUT. PROVIDE TRANSITION TO PVC AND TWO-PIECE PVC EXPANSION FITTING ON OUTSIDE OF VAULT.

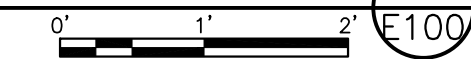
SHEET NOTES:

- 1. SEE DRAWING E002 FOR RACEWAY AND CONDUIT SCHEDULES.



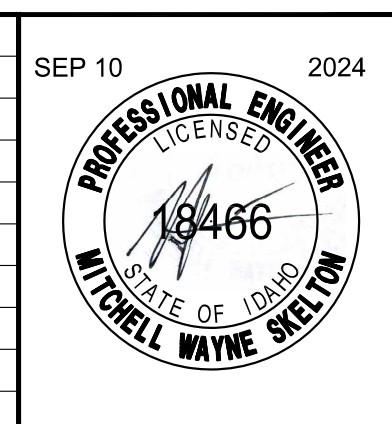
AIRLINE VAULT ELECTRICAL PLAN

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



2  
E100

REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



WARNING  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



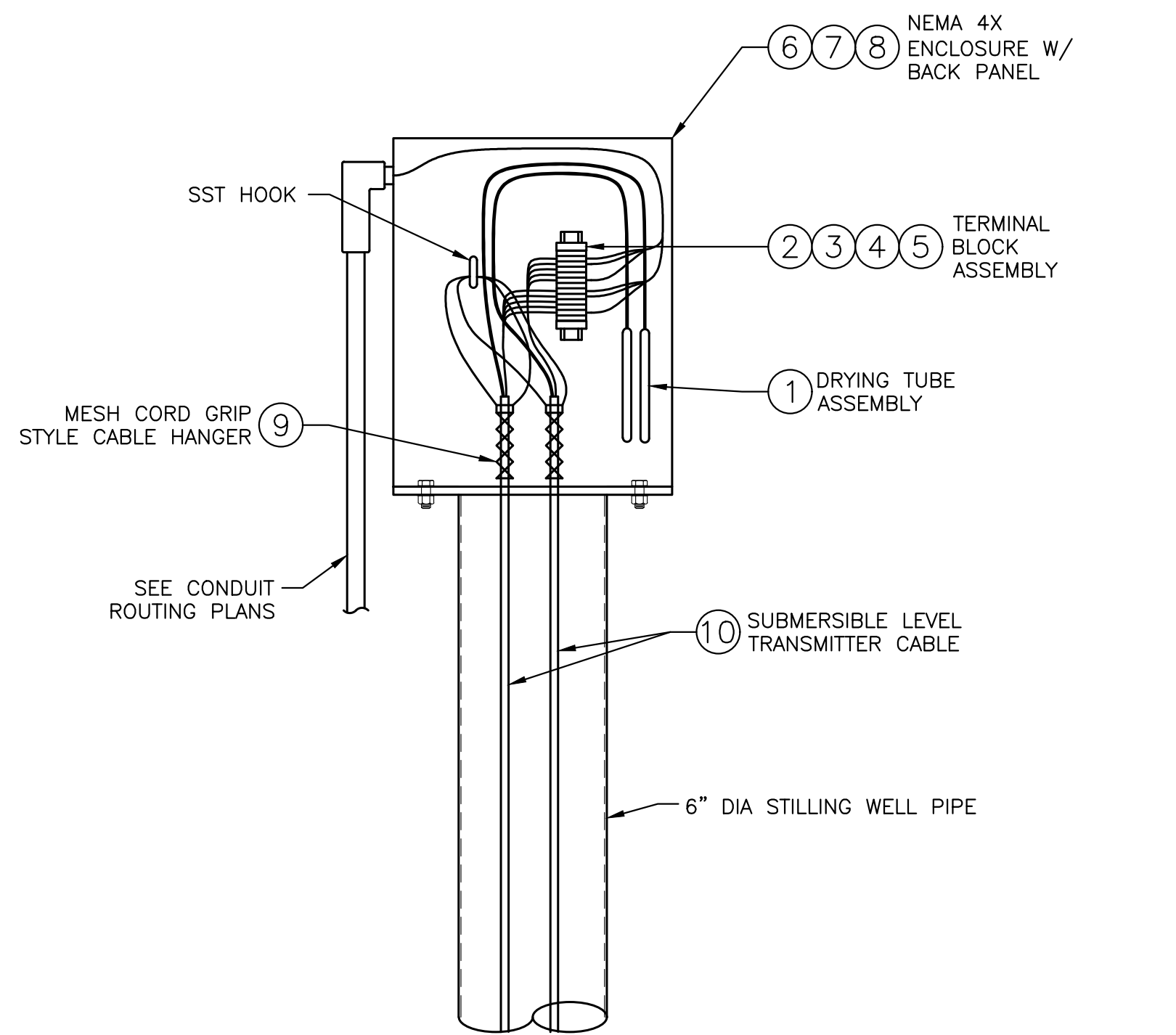
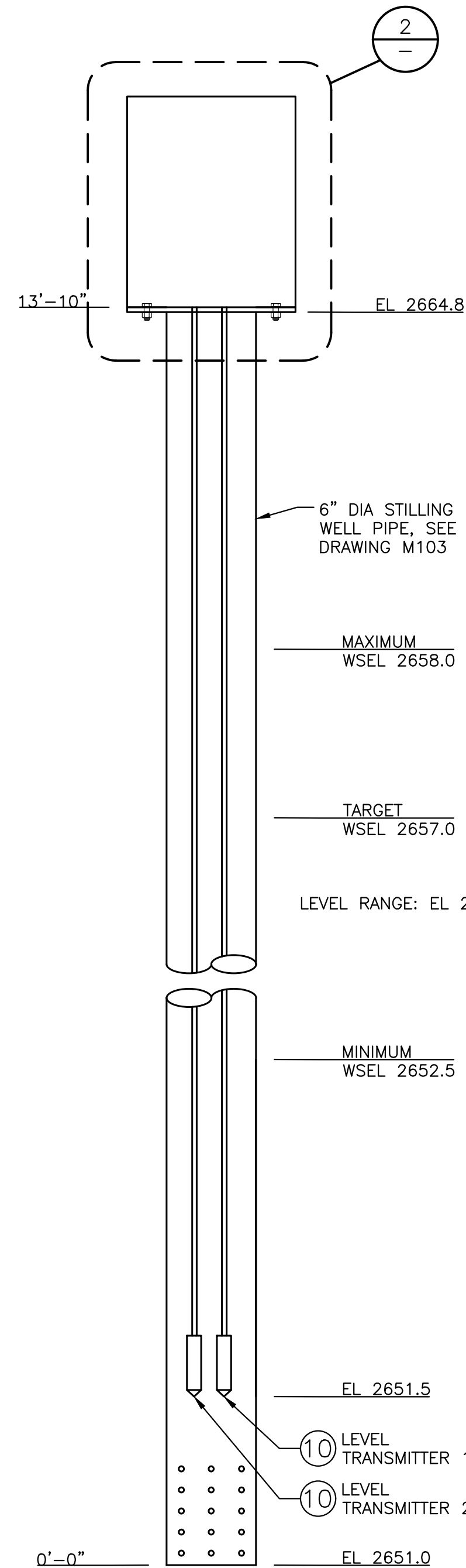
CITY OF BOISE  
J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
BOISE WHITEWATER PARK

VAULT ELECTRICAL PLAN  
AND INCLINOMETER DETAILS

DESIGNED M. SKELTON  
DRAWN R. WOOD  
CHECKED M. McMILLEN  
ISSUED DATE 9/10/24

DRAWING  
**E102**  
SHEET 35 OF 40  
SCALE: AS NOTED





**DETAIL**  
SCALE: NTS

**SHEET NOTES:**

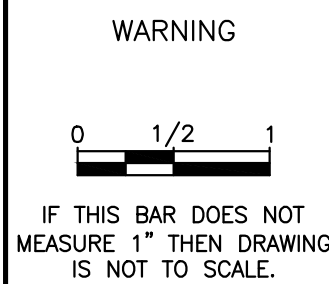
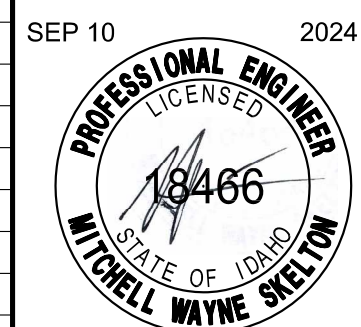
1. SUPPORT LEVEL SENSOR CABLES WITH MANUFACTURER PROVIDED/APPROVED STRAIN RELIEF/PRESSURE CONNECTORS FROM KELLER AMERICA.
2. COIL EXTRA CABLE FOR SENSOR IN ENCLOSURE.
3. ENSURE STILLING WELL, ENCLOSURE, AND CONDUITS ARE BONDED TO GROUND ACCORDING TO NEC. USE GROUNDING BUSHINGS ON CONDUIT ENTRY TO ENCLOSURE.
4. ATTACH DRYING TUBES TO LEVEL SENSOR CABLE VENT TUBE.

MATERIAL LIST				
ITEM	QTY	DESCRIPTION	MANUFACTURER	PART NO.
1	2	DRYING TUBES	KELLER AMERICA	N.A.
2	12	UNIVERSAL TERMINAL BLOCKS, UKFN, 30A	PHOENIX	3004362
3	2	END COVER FOR UK4	PHOENIX	3003020
4	2	END BRACKETS, TYPE E/UK	PHOENIX	1201442
5	1	DIN RAIL STYLE MOUNTING TRACK	PHOENIX	1201730
6	1	NEMA 4X SS ENCLOSURE 16Hx12Wx8D	HOFFMAN	CSD16128SS
7	1	BACK PANEL FOR 16Hx12W	HOFFMAN	CP1612G
8	1	PADLOCK HANDLE	HOFFMAN	CWHPTO
9	2	SINGLE EYE MESH CORD GRIP STYLE CABLE HANGER	KELLER AMERICA	N.A.
10	2	INDUSTRIAL SUBMERSIBLE PRESSURE TRANSDUCER, 4-20mA OUTPUT, RANGE AS SHOWN	KELLER AMERICA	ACCULEVEL SERIES

**WATER LEVEL SENSORS INSTALLATION DETAIL**

SCALE: NTS

1  
E001



CITY OF BOISE	
J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION BOISE WHITEWATER PARK	
WATER LEVEL SENSORS ELECTRICAL DETAILS	

DESIGNED	M. SKELTON
DRAWN	R. WOOD
CHECKED	M. McMILLEN
ISSUED DATE	9/10/24

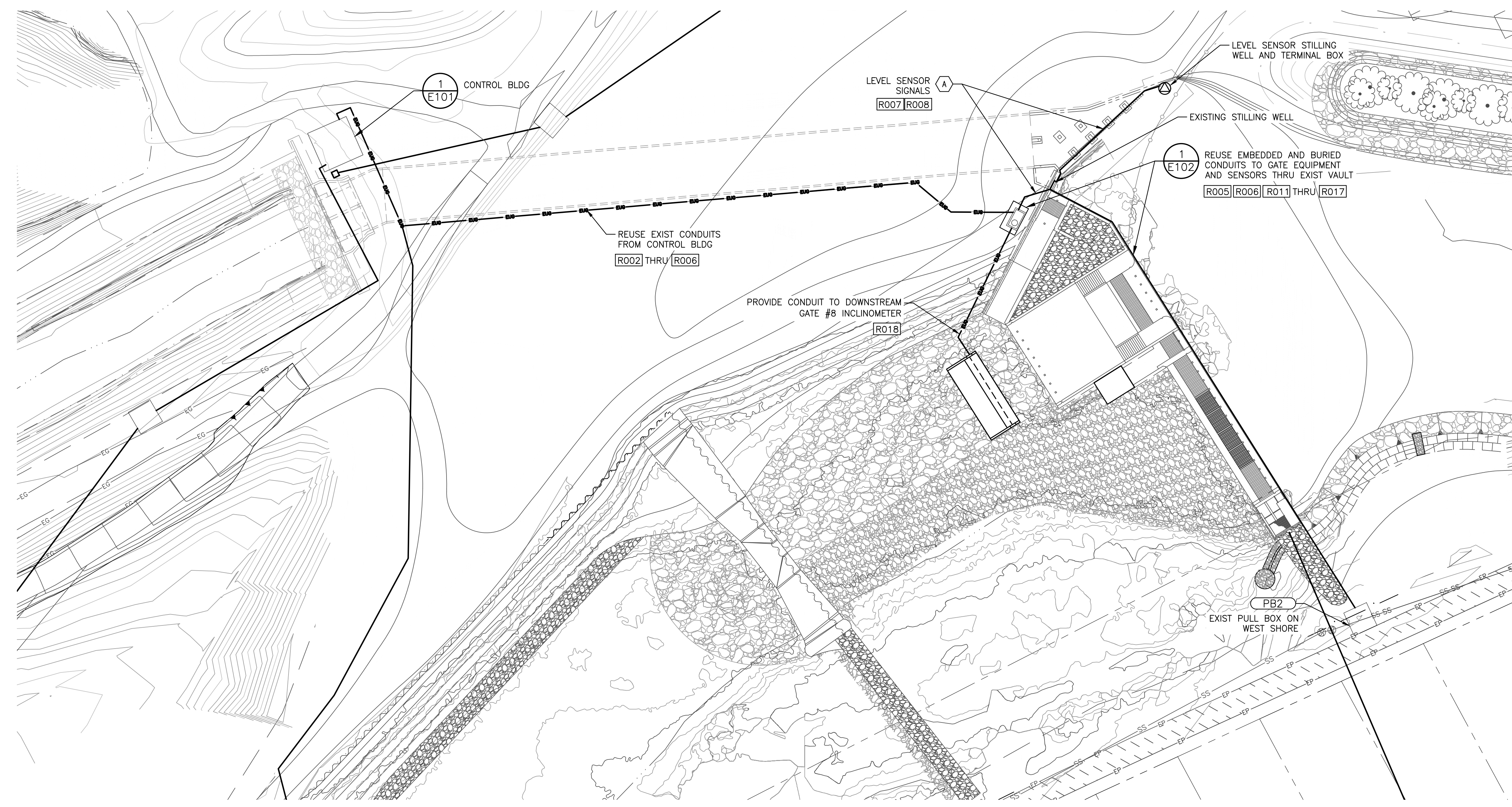
DRAWING	E103
SHEET	36 OF 40
SCALE:	AS NOTED

REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION

Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\E103.dwg Plot date: Sep 09, 2024 12:17pm

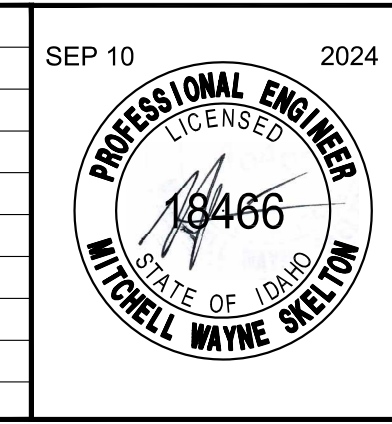


- SHEET KEY NOTES:**
- A REUSE CONDUITS FROM VAULT TO EXIST STILLING WELL, THEN ROUTE OUT OF STILLING WELL TO EXPOSED ON RIVER SIDE OF CONCRETE. ROUTE CONDUIT ON UNDERSIDE OF EXISTING HANDRAIL TO NEW STILLING WELL. PAINT EXPOSED CONDUIT TO MATCH HANDRAIL.
- SHEET NOTES:**
- 1. SEE DRAWING E002 FOR RACEWAY AND CONDUIT SCHEDULES.



**SITE CONDUIT ROUTING PLAN**  
 SCALE: 1" = 30'

REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



**WARNING**

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CITY OF BOISE  
 J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
 BOISE WHITEWATER PARK

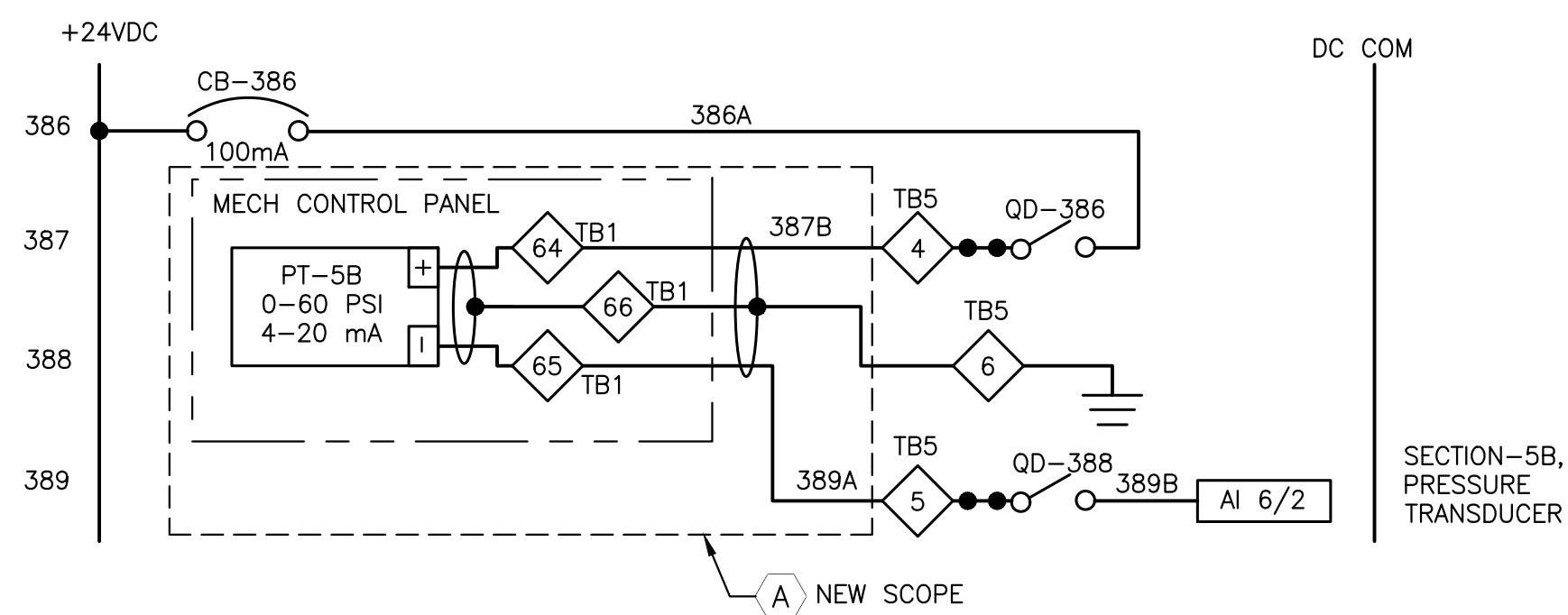
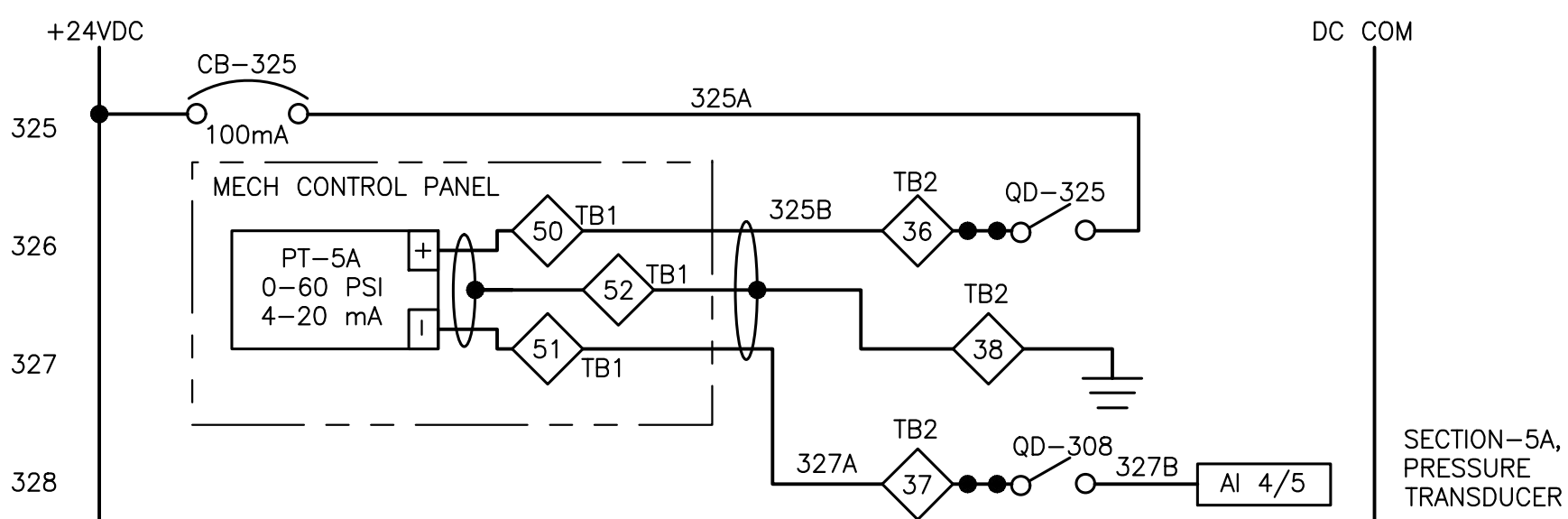
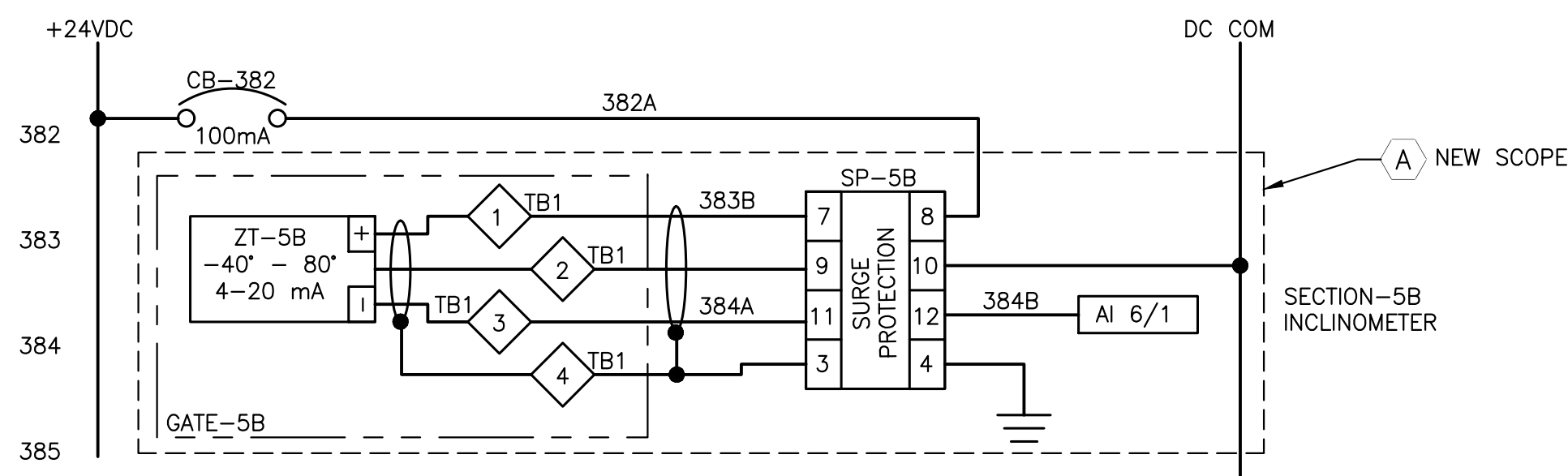
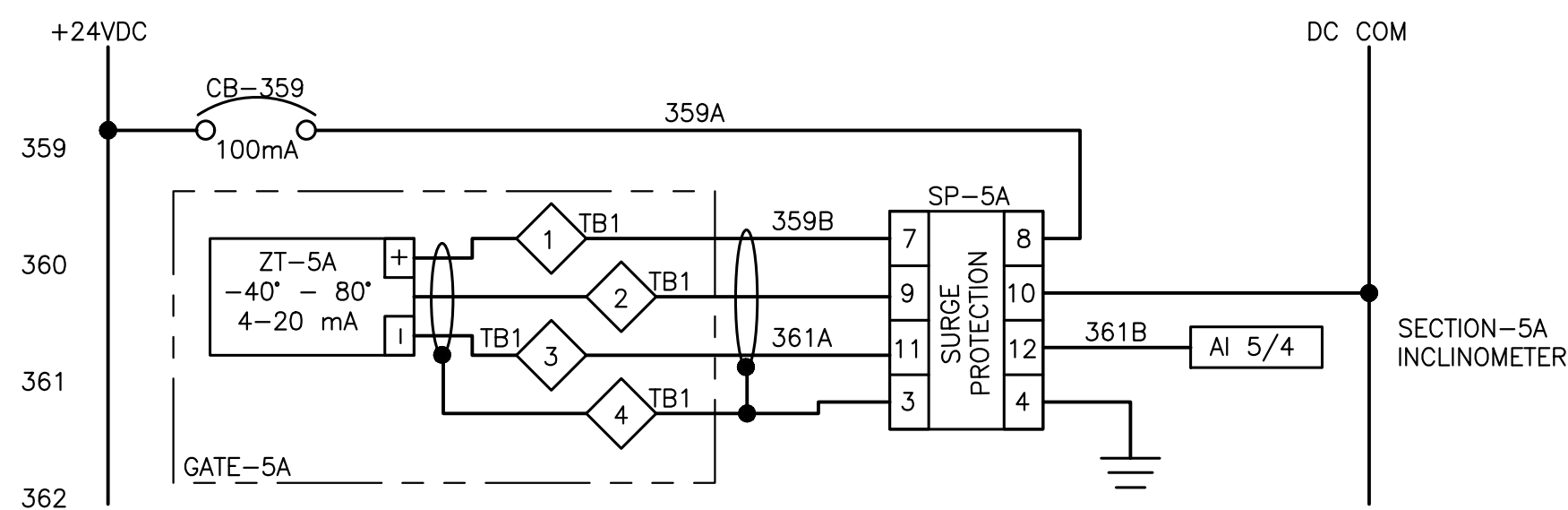
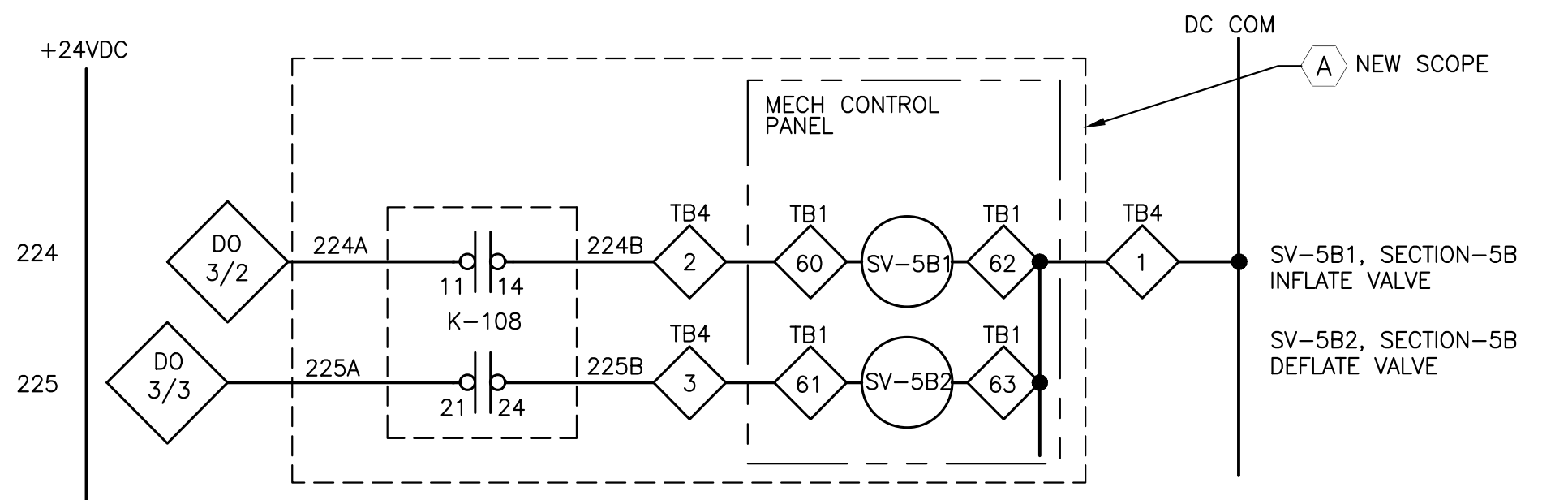
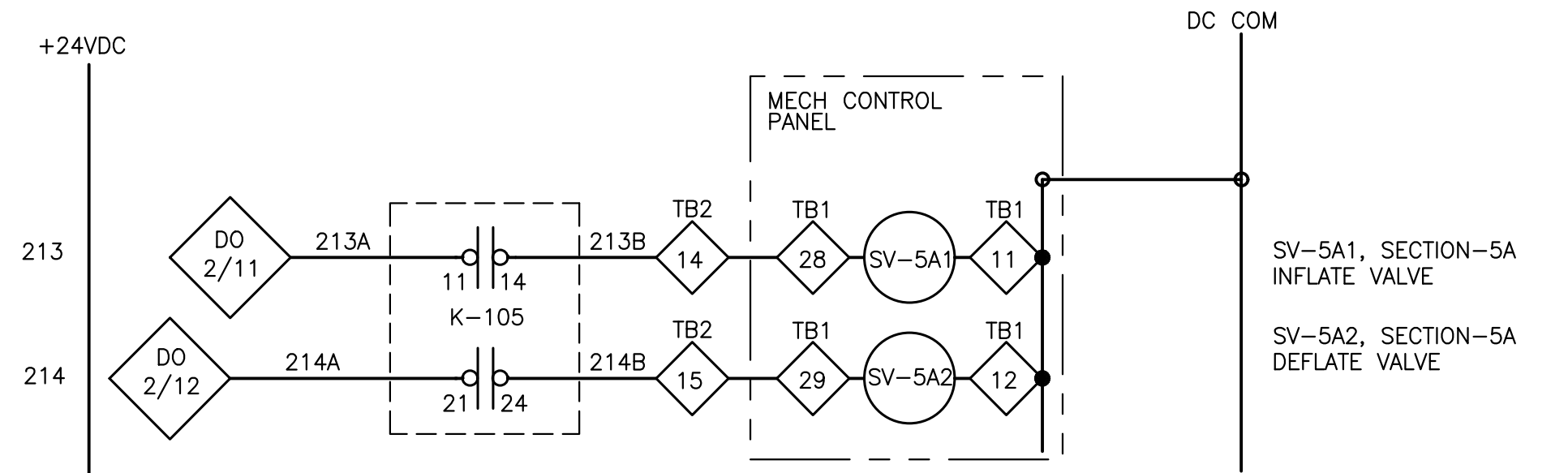
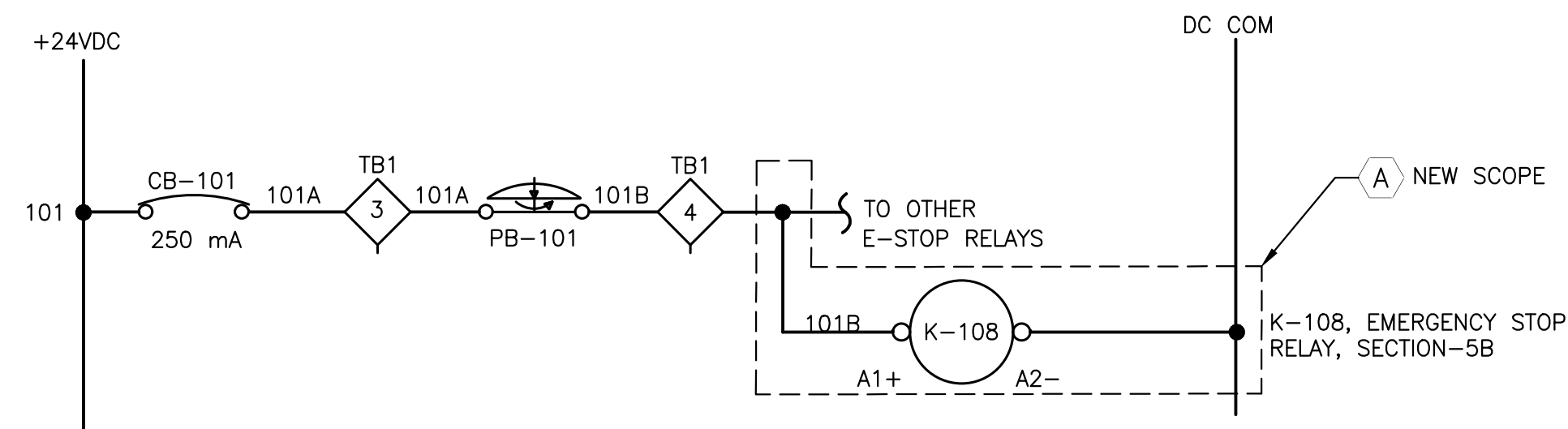
SITE CONDUIT ROUTING PLAN

DESIGNED M. SKELTON  
 DRAWN R. WOOD  
 CHECKED M. McMILLEN  
 ISSUED DATE 9/10/24

DRAWING  
**E104**  
 SHEET 37 OF 40  
 SCALE: AS NOTED

Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\E104.dwg Plot date: Sep 09, 2024 12:17pm





**SHEET KEY NOTES:**

A. PROVIDE NEW MATERIALS AND WIRING SHOWN TO MATCH EXISTING SIMILAR COMPONENTS.

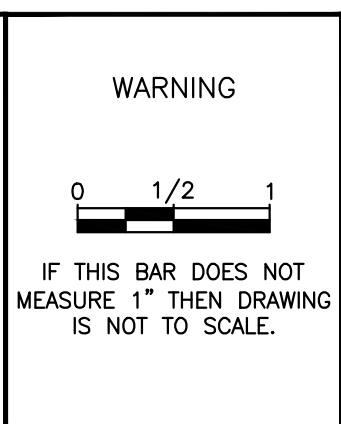
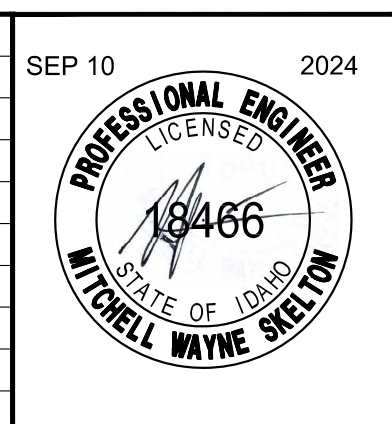
**SHEET NOTES:**

1. PROVIDE THE FOLLOWING CHANGES TO THE PLC AND HMI PROGRAMMING:
  - A. REVISE SIGNAL AND CONTROL LOOP FOR GATE #5 TO LOOP #5A.
  - B. ADD SIGNALS FOR THE NEW INCLINOMETER ZT-5B AND PRESSURE TRANSMITTER PT-5B.
  - C. ADD CONTROL LOOP FUNCTIONALITY FOR GATE #5B SIMILAR TO GATE #5A.

**GATE #5 MODIFICATION DIAGRAM**

SCALE: NTS

REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



CITY OF BOISE  
 J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
 BOISE WHITEWATER PARK

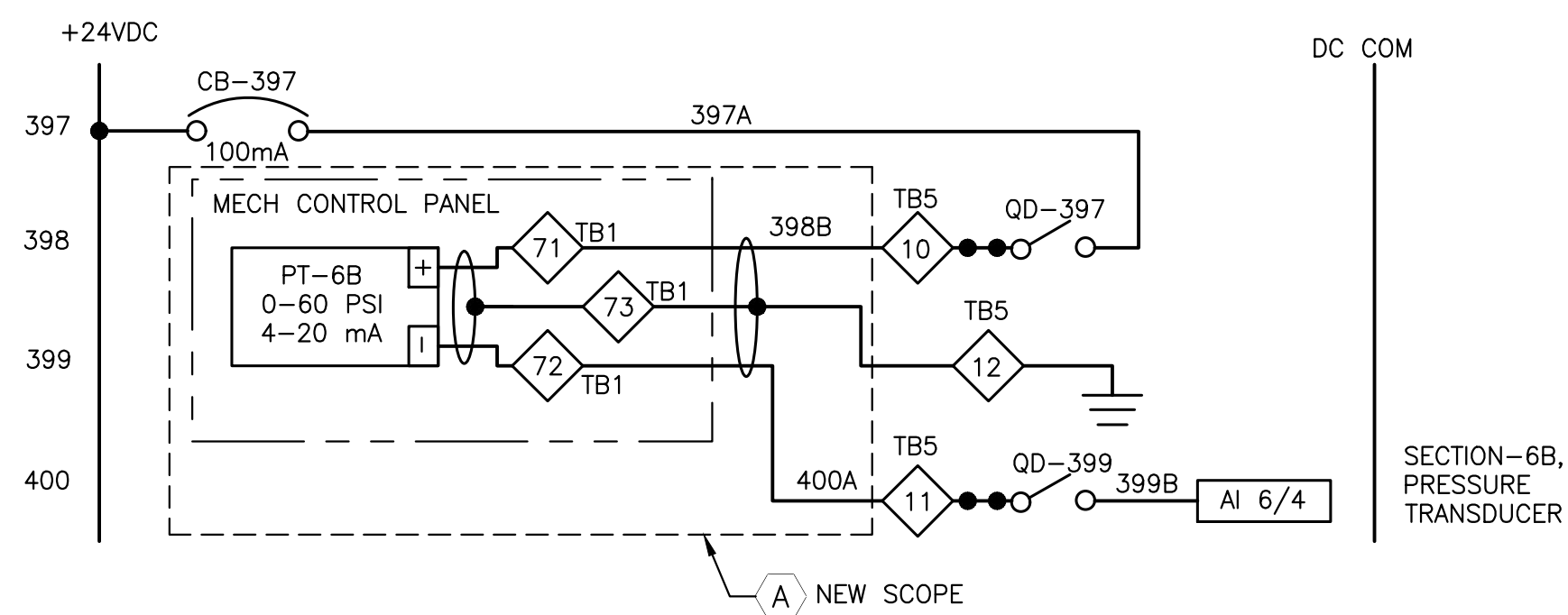
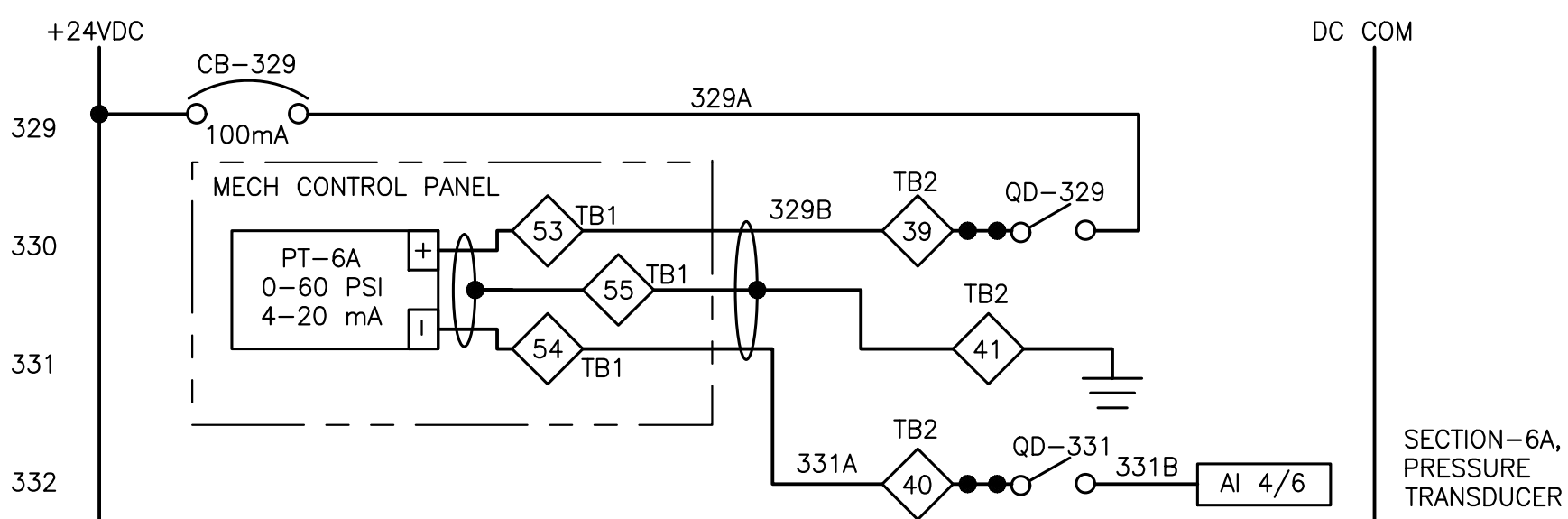
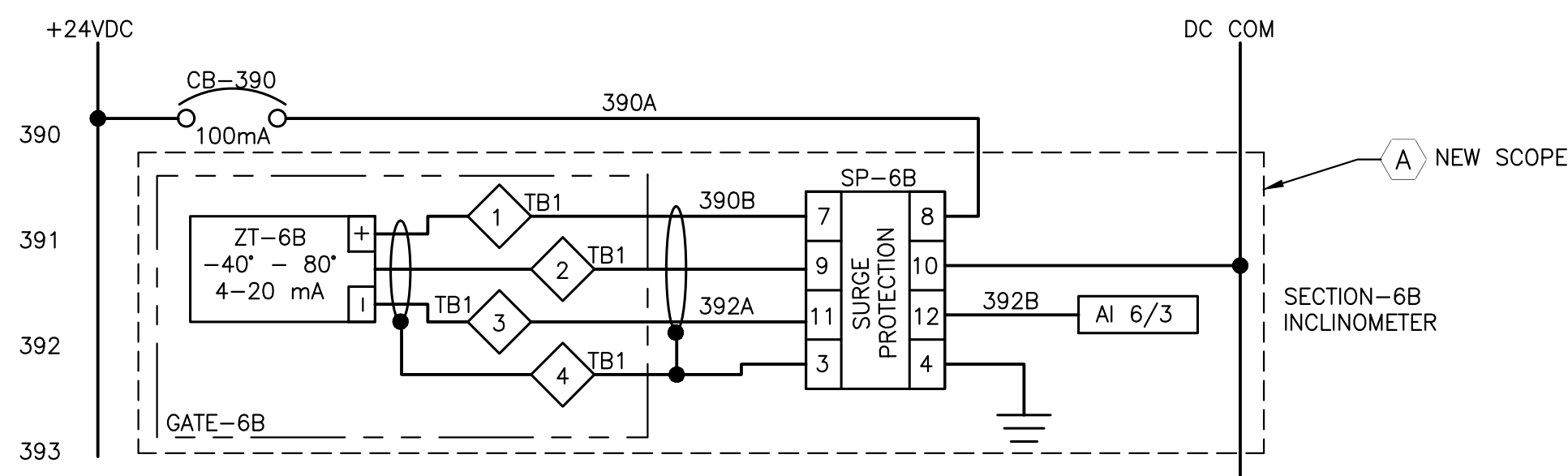
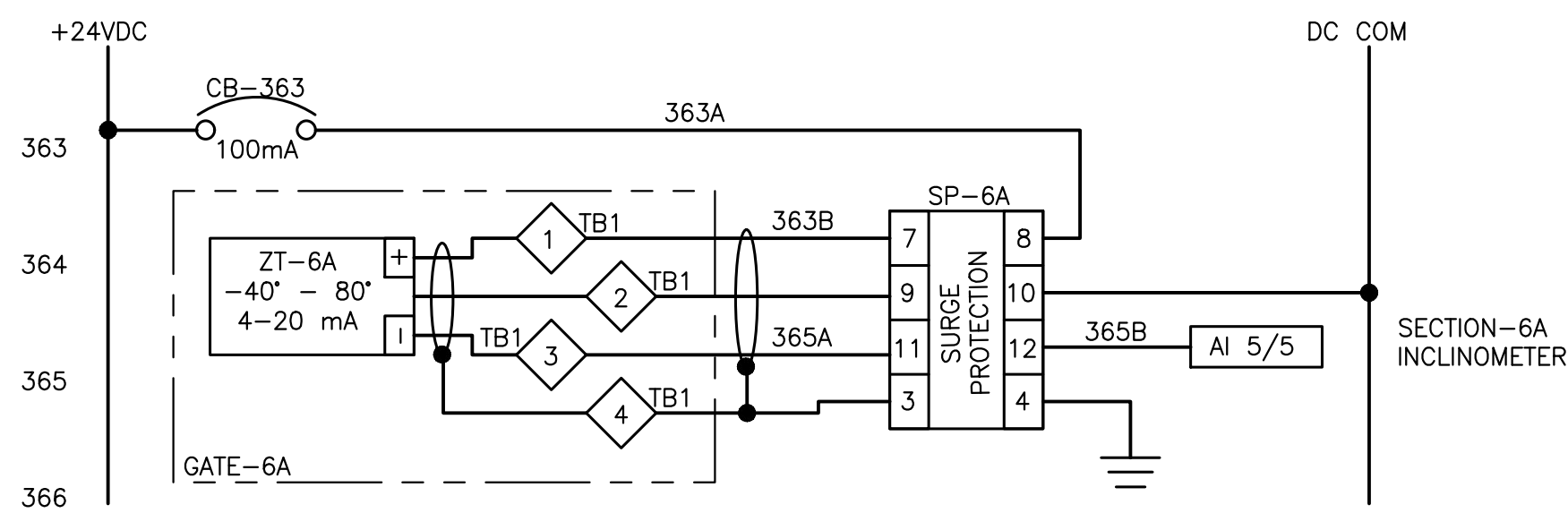
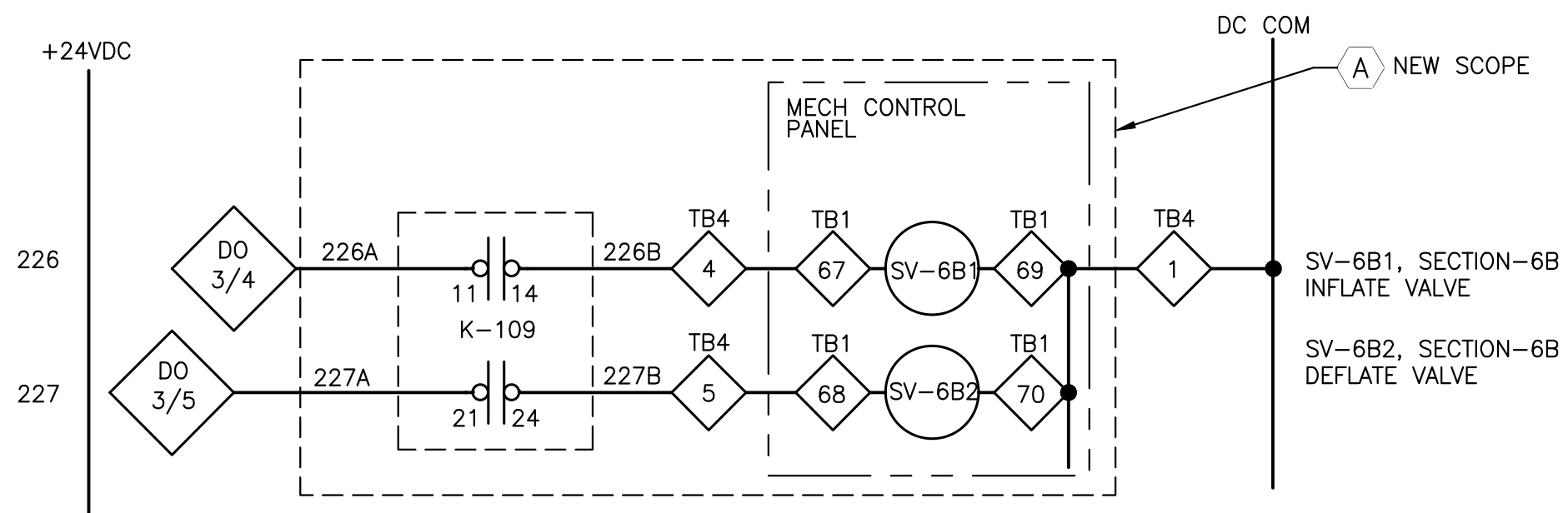
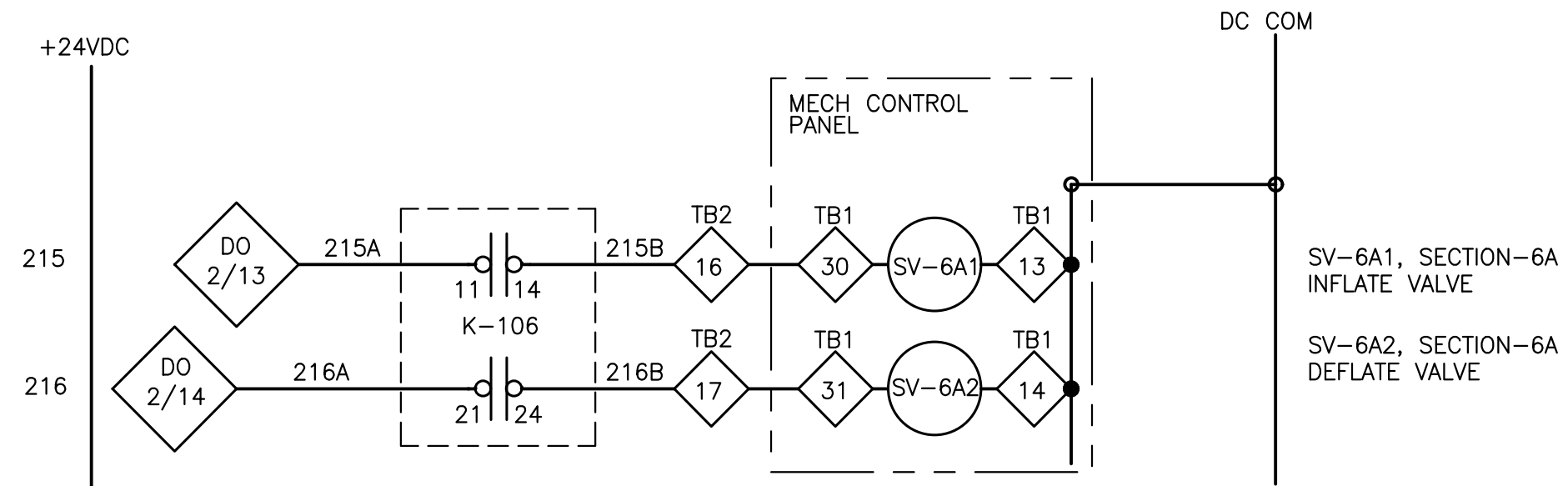
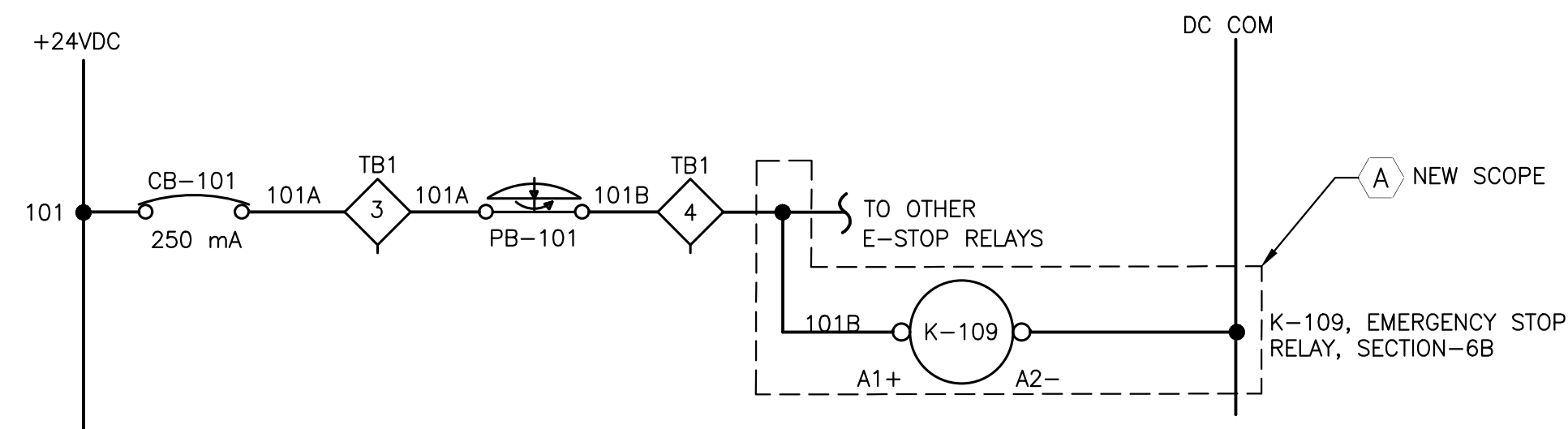
GATE #5 MODIFICATION DIAGRAM

DESIGNED M. SKELTON  
 DRAWN R. WOOD  
 CHECKED M. McMILLEN  
 ISSUED DATE 9/10/24

DRAWING  
**E105**  
 SHEET 38 OF 40  
 SCALE: AS NOTED

Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\E105.dwg Plot date: Sep 09, 2024 12:17pm





**SHEET KEY NOTES:**

A. PROVIDE NEW MATERIALS AND WIRING SHOWN TO MATCH EXISTING SIMILAR COMPONENTS.

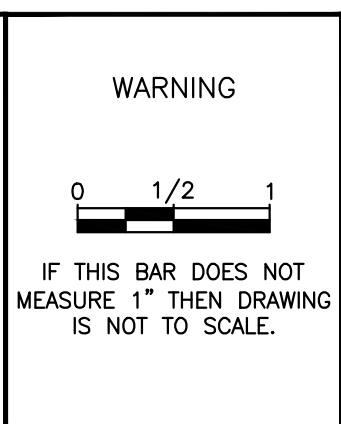
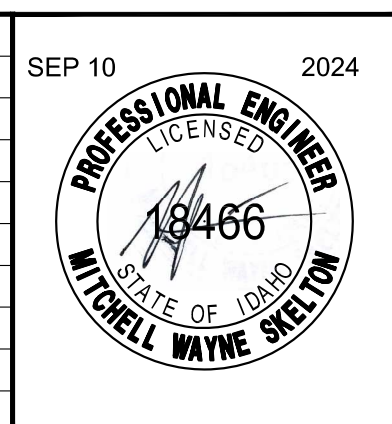
**SHEET NOTES:**

1. PROVIDE THE FOLLOWING CHANGES TO THE PLC AND HMI PROGRAMMING:
  - A. REVISE SIGNAL AND CONTROL LOOP FOR GATE #6 TO LOOP #6A.
  - B. ADD SIGNALS FOR THE NEW INCLINOMETER ZT-6B AND PRESSURE TRANSMITTER PT-6B.
  - C. ADD CONTROL LOOP FUNCTIONALITY FOR GATE #6B SIMILAR TO GATE #6A.

**GATE #6 MODIFICATION DIAGRAM**

SCALE: NTS

REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



CITY OF BOISE  
J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
BOISE WHITEWATER PARK

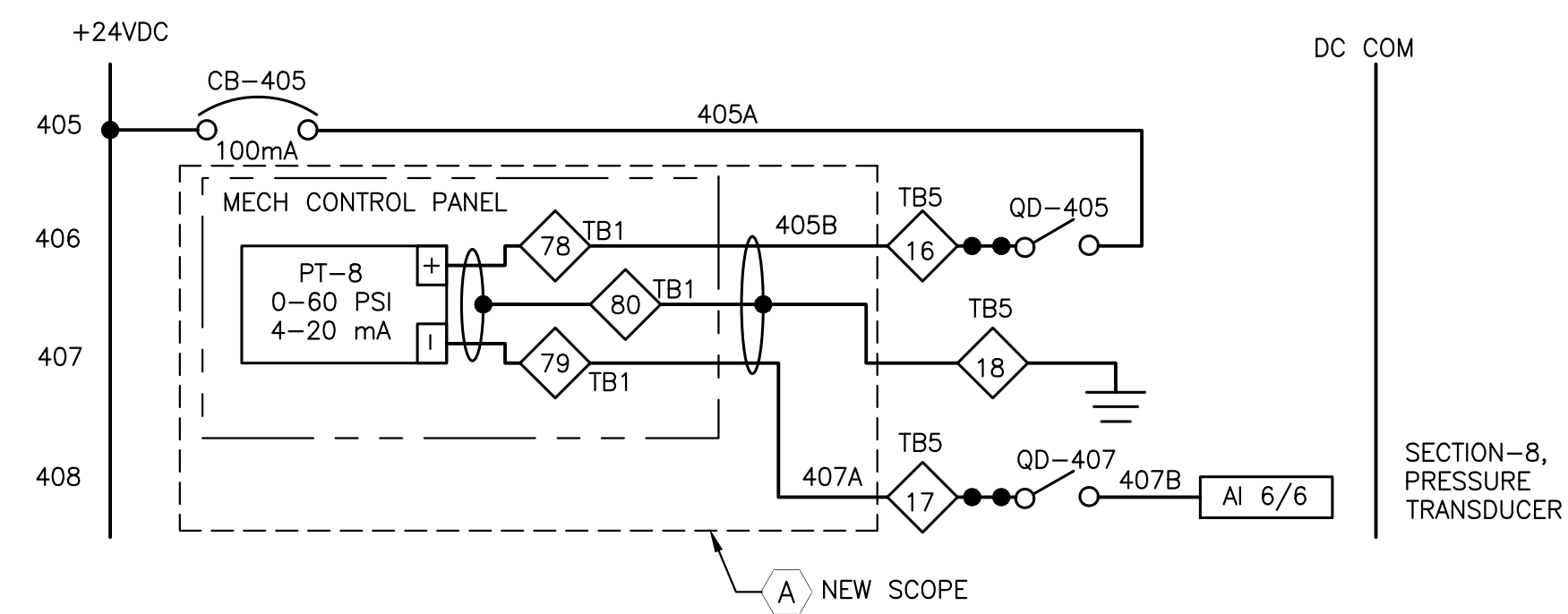
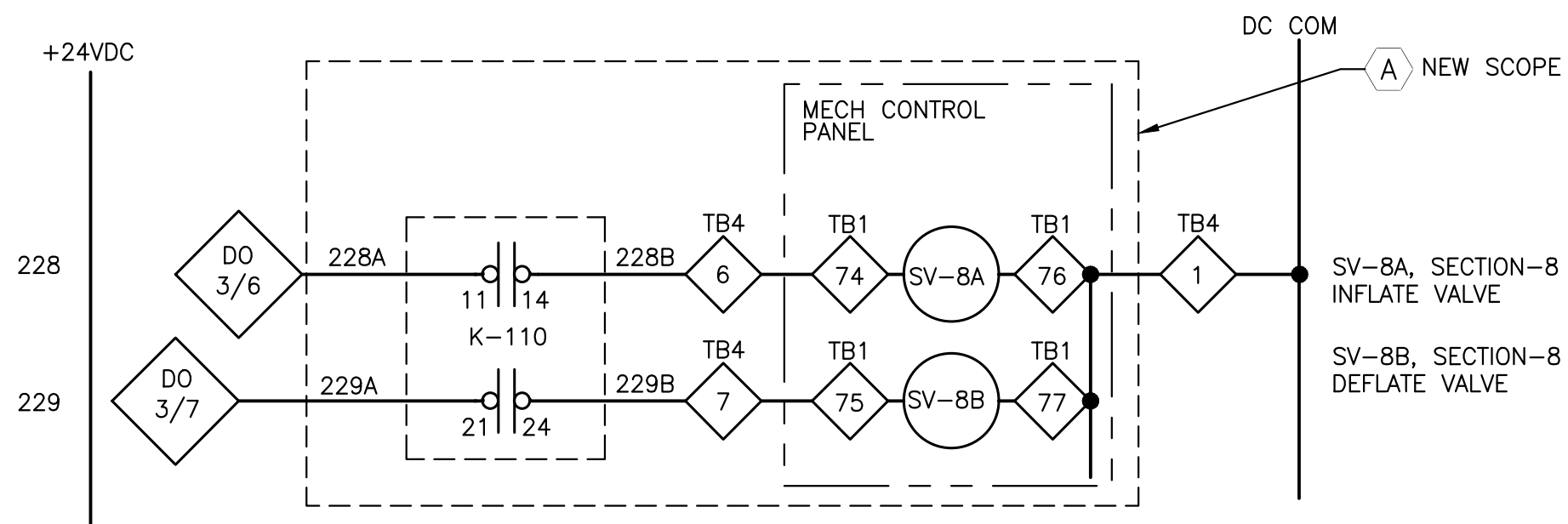
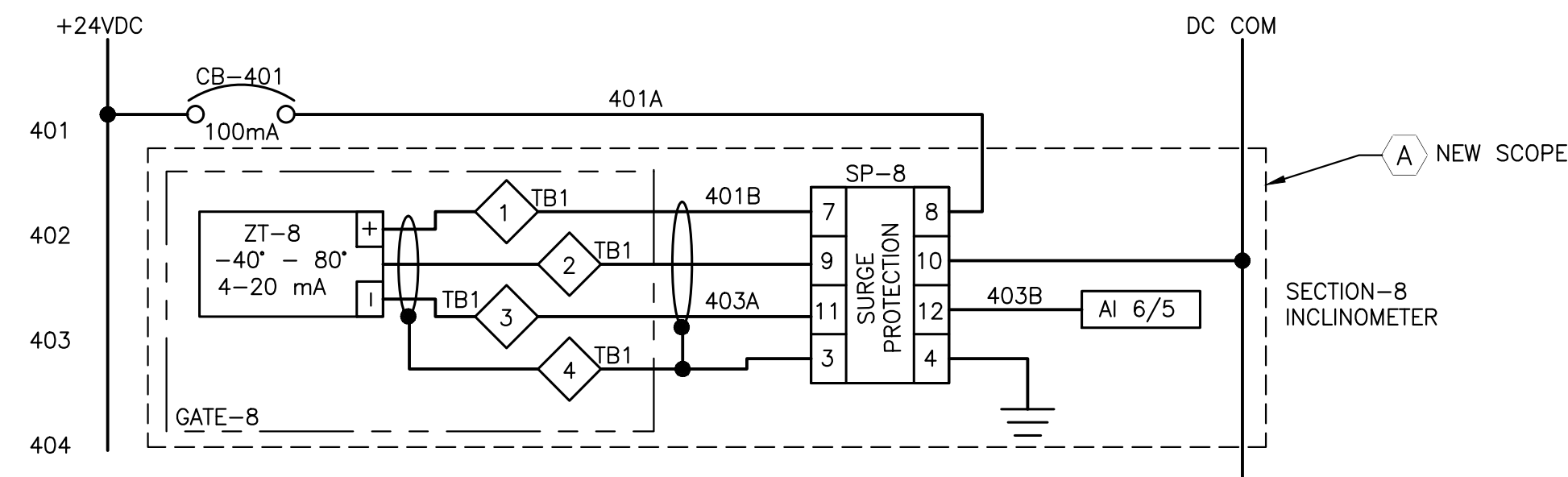
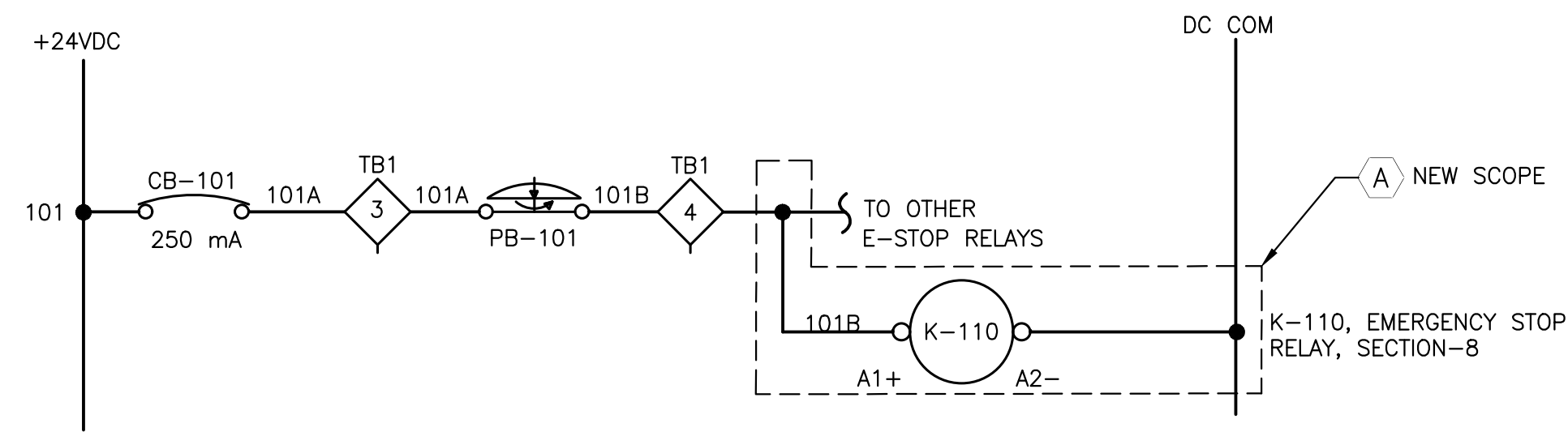
GATE #6 MODIFICATION DIAGRAM

DESIGNED M. SKELTON  
DRAWN R. WOOD  
CHECKED M. McMILLEN  
ISSUED DATE 9/10/24

DRAWING  
**E106**  
SHEET 39 OF 40  
SCALE: AS NOTED

Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\E106.dwg Plot date: Sep 09, 2024 12:17pm





**GATE #8 DIAGRAM**

SCALE: NTS

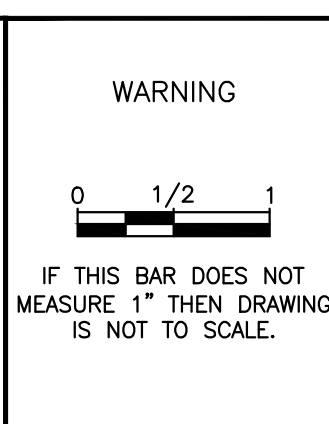
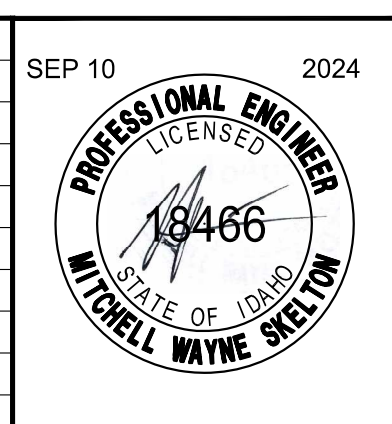
**SHEET KEY NOTES:**

A PROVIDE NEW MATERIALS AND WIRING SHOWN TO MATCH EXISTING SIMILAR COMPONENTS.

**SHEET NOTES:**

1. PROVIDE THE FOLLOWING CHANGES TO THE PLC AND HMI PROGRAMMING:
  - A. CREATE CONTROL LOOP FOR GATE #8 FOR MANUAL ONLY CONTROL WITH POSITION DISPLAY AT THE HMI.
  - B. ADD SIGNALS FOR THE NEW INCLINOMETER ZT-8 AND PRESSURE TRANSDUCER PT-8.

REV	DATE	BY	DESCRIPTION
0	9/10/24	MDM	ISSUED FOR CONSTRUCTION



CITY OF BOISE  
 J.A. AND KATHRYN ALBERTSON FAMILY FOUNDATION  
 BOISE WHITEWATER PARK

GATE #8 DIAGRAM

DESIGNED M. SKELTON  
 DRAWN R. WOOD  
 CHECKED M. McMILLEN  
 ISSUED DATE 9/10/24

DRAWING  
**E107**  
 SHEET 40 OF 40  
 SCALE: AS NOTED

Path: C:\Box\mcm\projects\city of boise\boise river water park design-build\14.0 mclaughlin modifications\14.11 internal design\6.0 plans and specs\6.3 cad\E107.dwg Plot date: Sep 09, 2024 12:17pm