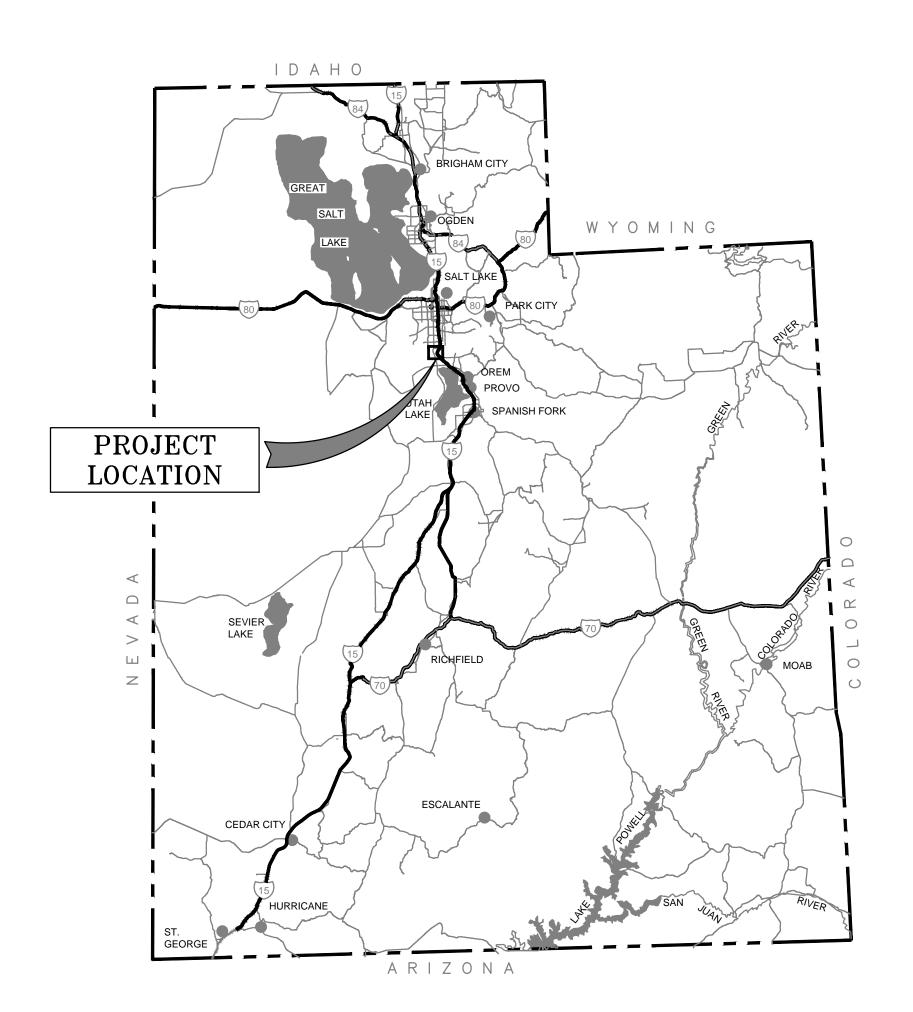




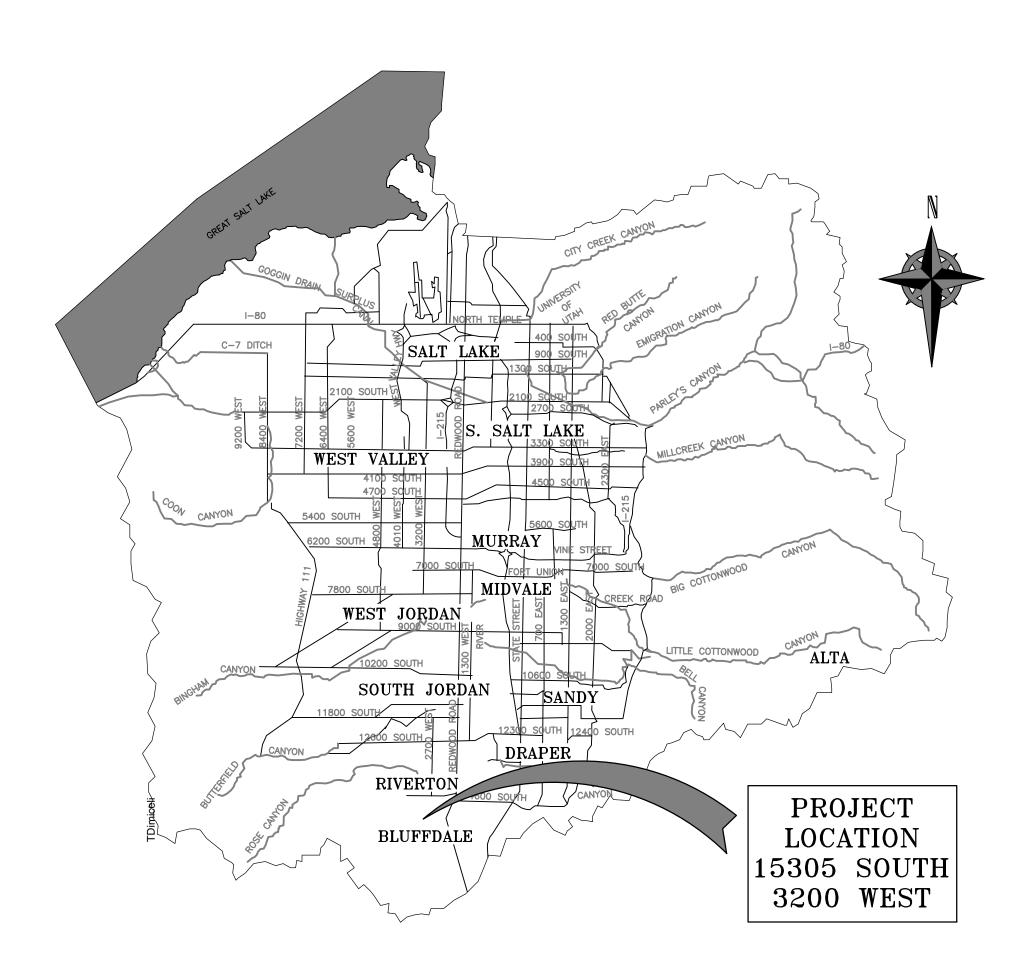
JORDAN VALLEY WATER CONSERVANCY DISTRICT

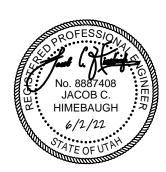
STATE MAP



JORDAN VALLEY WATER TREATMENT PLANT SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT **JORDAN VALLEY PROJECT 4277**

PROJECT VICINITY

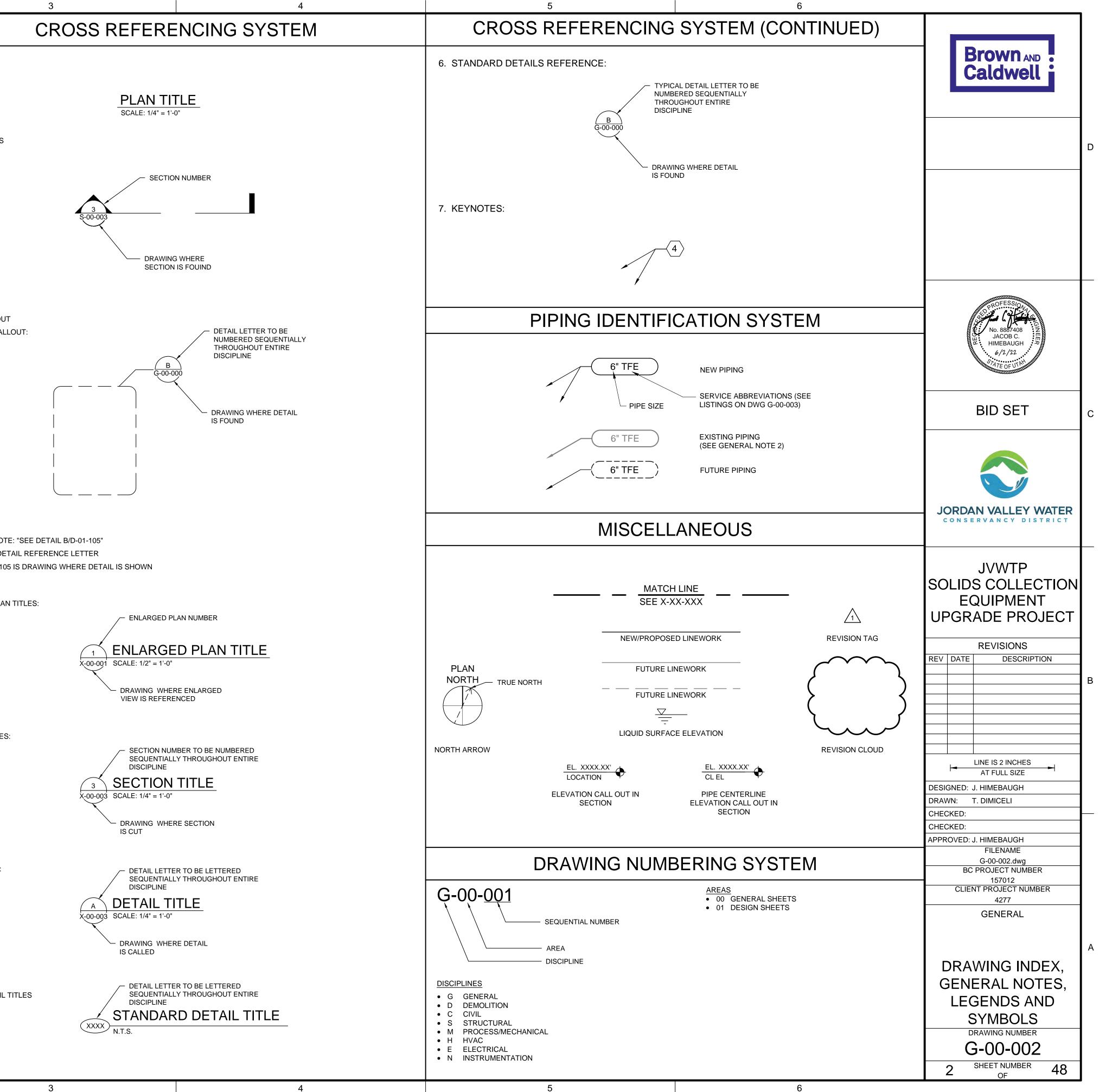




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40	I-01-003	SEDIMENTATION BASIN 5	
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		GENERAL NOTES	
		OCK OF THIS DRAWING WHICH READS "TWO INCHES AT FULL SCALE" APPEARS ON DRAWINGS FOR	-
THE DRAW	ING IS FULL SIZE	DISTORTIONS ON HALF SIZE DRAWINGS AND DRAWING REPRODUCTIONS. IT SHALL MEAN THAT AND THE DRAWING SCALES ACCURATE WHEN THE LENGTH OF THIS LINE IS TWO INCHES. IF THE	
		VO INCHES, DRAWING SCALES MUST BE ADJUSTED ACCORDINGLY. HIS CONTRACT DOCUMENT CONFORM TO ANSI Y1.1, UNLESS NOTED OTHERWISE ON DRAWINGS.	
		PLY TO ALL THE CONTRACTORS WORK WHETHER SPECIFICALLY REFERENCED OR NOT.	5. TYPICAL DETAIL
		DR EACH DISCIPLINES STANDARD SYMBOLS, ETC.	
5. THE SHAD	ED PORTIONS (E)	(ISTING CONDITIONS) OF THE DRAWINGS WERE TAKEN FROM JVWCD RECORD DRAWINGS BUT	
HAVE NOT		BY BROWN AND CALDWELL. DIMENSIONS, FEATURES, AND DETAILS MAY VARY FROM FIELD R MUST VERIFY ALL EXISTING CONDITIONS THAT MAY IMPACT WORK.	
	NS. CONTRACTO	MUST VERIFT ALL EXISTING CONDITIONS THAT MAT IMPACT WORK.	

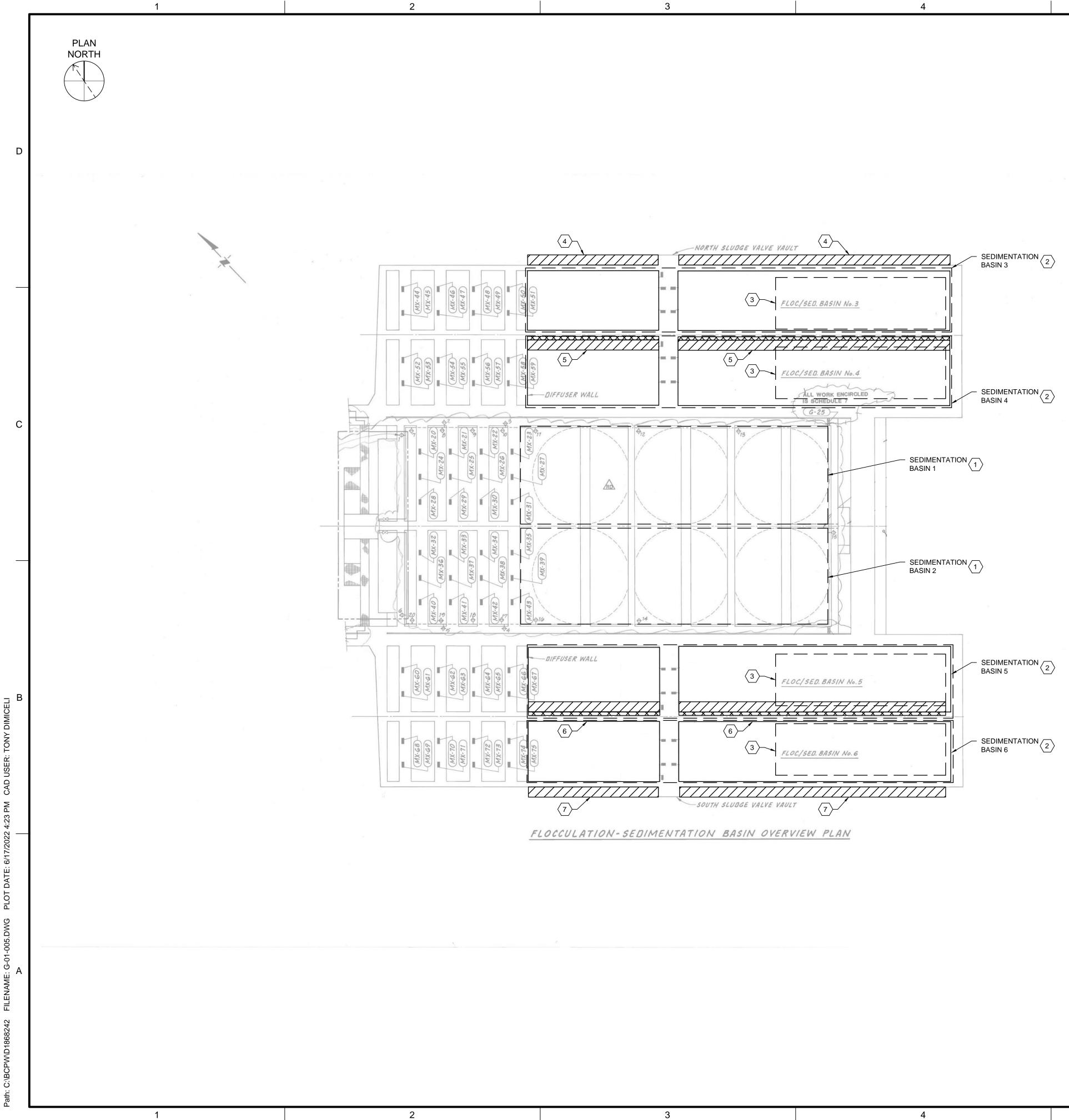


- A -	1	- C - (CO	NT.)	- F - (CON	лт)	- M - (CON	Т.)	- Q -	
- A - A/C	AIR CONDITIONING	- C - (CO COL	COLUMN	- F - (CON FMCT	FLOW METER COMPOUND TORRENT	- M - (CON ML	MORTAR LINED	QCV	QUICK COUPLER VALVE
AB	ANCHOR BOLT	COMB	COMBINATION	FMH	FLEXIBLE METAL HOSE	MLC	MORTAR LINED & COATED	QDC	QUICK DISCONNECT COUPLING
ABAN	ABANDON	COMM	COMMUNICATION	FN	FENCE	MON	MONUMENT	QS	QUAD SHEET
ABC	AGGREGATE BASE COURSE	COMPL	COMPLETE	FND	FOUND	MOV	MOTOR OPERATED VALVE	QTR	QUARTER
ABS	ABSOLUTE	CON	CONCENTRIC	FO	FIBER OPTIC	MPT	MALE PIPE THREAD	QTY	QUANTITY
ABUT	ABUTMENT	CONC	CONCRETE	FOC FOW	FACE OF CURB FACE OF WALL	MSD	MAIN SERVICE DISTRIBUTION	D	
ABV	ABOVE	CONN	CONNECTION	FDW	FLEXIBLE PIPE COUPLING	MSDS	MATERIAL SAFETY DATA SHEET	- R -	545440
AC	ASPHALTIC CONCRETE	CONST	CONSTRUCTION	FPM	FEET PER MINUTE	MTD	MOUNTED	R	RADIUS
ACKV	AUTOMATIC CHECK VALVE	CONT	CONTINUE OR CONTINUOUS	FPS	FEET PER SECOND	- N -		(R)	
ACP	ASBESTOS CEMENT PIPE	CONTR	CONTRACTOR	FPT	FEMALE PIPE THREAD			RA R/W	RAW WATER RIGHT-OF-WAY
ACS	ACCESS	COORD	COORDINATE	FREQ	FREQUENCY	N	NORTH	RCB	REINFORCED CONCRETE BOX
ADA	AMERICAN DISABILITY ACT	COR	CORNER	FRP	FIRE RETARDANT POLYESTER RESIN/	N/A		RCP	REINFORCED CONCRETE PIPE
AD	AREA DRAIN	CORP STOP	CORPORATION STOP		FIBERGLASS REINFORCED POLYMER	NaOCL		RD	ROAD
ADDL	ADDITIONAL	COV PL CPLG	COVER PLATE COUPLING	FSTNR	FASTENER	NAVD	NORTH AMERICAN VERTICAL DATUM	REC	RECESSED
ADDM	ADDENDUM	CPUG		FT	FOOT OR FEET	NAP	NOT-A-PART NATIONAL BUREAU OF STANDARDS	RECT	RECTANGULAR
ADJ	ADJUSTABLE	CT	COURT	FTG	FOOTING	NBS NC	NATIONAL BUREAU OF STANDARDS NATIONAL COARSE	RED	REDUCER
AGGR	AGGREGATE AHEAD	CTR	CENTER	FUT	FUTURE	NE	NORTHEAST	REF	REFERENCE (DIMENSION)
AHD	ALUMINUM	CTV	CABLE TELEVISION	0		NE	NORTH FACE	REG	REGULATING (REGULATOR)
ALT	ALTERNATE	CU	CUBIC/COPPER	- G -		NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	REINF	REINFORCED (REBAR)
AMS	ANGLE METER STOP	CUST	CUSTOMER	G/B	GRADE BREAK	NG	NATURAL GROUND	REQD	REQUIRED
AMT	AMOUNT	CV	CONTROL VALVE	G	GAS	NIC	NOT IN CONTRACT	RES	RESIDENTIAL OR RESERVOIR
&	AND	CW	CLOCKWISE	GA (S)	GAGE GALLON(S)	NIP	NOT IN PROJECT	RET	RETURN
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	CY	CUBIC YARD	GAL(S) GALV	GALLON(S) GALVANIZED	NO. #	NUMBER	REV	REVISION OR REVERSE
ANT	ANTENNA	CYL	CYLINDER	GENL	GENERAL	NOM	NOMINAL	RF	RAISED FACE
AP	ACCESS PANEL			GIS	GENERAL GEOGRAPHIC INFORMATION SYSTEM	NPS	NOMINAL PIPE SIZE	RM	ROOM
APN	ASSESSOR PARCEL NUMBER	- D -		GND	GROUND	NPT	NATIONAL TAPER PIPE THREAD	RME	RESIDENTIAL MAIN EXTENSION
APPROX	APPROXIMATE	DOR \triangle	DELTA ANGLE	GPD	GROUND GALLONS PER DAY	NRS	NON-RISING STEM	RPM	REVOLUTIONS PER MINUTE
APPVD	APPROVED	D/W	DRIVEWAY	GPD GPH	GALLONS PER DAY GALLONS PER HOUR	NTS	NOT TO SCALE	RPS	REVOLUTIONS PER SECOND
ASPH	ASPHALT	DEC	DECIMETER	GPM	GALLONS PER MOUR	NW	NORTHWEST	RPPA	REDUCED PRESSURE PRINCIPLI
ASSN	ASSOCIATION	DEMO	DEMOLITION	GRD	GRADE			RR	RAILROAD
ASSY	ASSEMBLY	DEPT	DEPARTMENT	GRT	GRATE	- 0 -		RSGV	
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	DET	DETAIL	GV	GATE VALVE	$\cap \cap$	OUT TO OUT	RT	RIGHT/RING TITE
AUX	AUXILIARY	DEV	DEVELOPMENT			O/O OC	OUT TO OUT ON CENTER	RV	RELIEF VALVE
AV	AIR VENT/AIR VALVE	DI	DROP INLET OR DUCTILE IRON			OD	OUTSIDE DIAMETER	- S -	
AVAR	AIR VACUUM AIR RELEASE VALVE	DIA OR Ø	DIAMETER	- H -		OD		S	SOUTH/SLOPE
AVE	AVENUE	DIAG	DIAGONAL	Н	HOUSE	OFC	OFFICE	SA	SAMPLE LINE
AVRV	AIR/VAC RELIEF VALVE	DIM	DIMENSION	H&V	HEATING & VENTILATION	OH	OVER HEAD	S/C	SAW CUT
AWG	AMERICAN WIRE GAUGE	DIP	DUCTILE IRON PIPE	HARN	HIGH ACCURACY FREQUENCY NETWORK	OHP	OVER HEAD POWER	SCCP	STEEL CYLINDER CONCRETE PI
AWWA	AMERICAN WATER WORKS ASSOCIATION	DIR	DIRECTION	HB	HOSE BIBB	OHTEL	OVER HEAD TELEPHONE	SCH	SCHEDULE
		DISCH	DISCHARGE	HD	HEAD	OPER	OPERATOR	SD	STORM DRAIN
- B -		DIST	DISTANCE	HDR	HEADER	OPNG	OPENING	SDWK	SIDEWALK
B/H	BUMPED HEAD	DISTR	DISTRIBUTION	HEX	HEXAGONAL	OPP	OPPOSITE	SE	SOUTHEAST
B&S	BELL & SPIGOT	DIV	DIVISION	HMWPE	HIGH MOLECULAR WEIGHT POLYETHYLENE	ORF	ORIFICE	SEC	SECTION/SECOND(ARY)
BAL	BALANCE	DL	DEAD LOAD	HORIZ	HORIZONTAL	ORIG	ORIGINAL	SEG	SEGMENT
BC	BOLT CIRCLE/BACK OF CURB	DMH	DROP MANHOLE	HP	HORSEPOWER	OS&Y	OUTSIDE SCREW & YOKE	SHLDR	SHOULDER
BCV	BUTTERFLY CHECK VALVE	DN	DOWN	HPI HPG	HORIZONTAL POINT OF INTERSECTION	OSHA	OCCUPATIONAL SAFETY AND HEALTH	SHT	SHEET
BE	BELL END	DR	DRIVE	HPG	HIGH PRESSURE GAS HOUR		ADMINISTRATION	SID	SPECIAL IMPROVEMENT DISTRI
BETW	BETWEEN	DRW	DRY WELL	HSA	HAND SWITCH AUTO	OVFL	OVERFLOW	SIG	SIGNAL
BFP	BACKFLOW PREVENTER	DUPL		HT	HEIGHT	OZ	OUNCE	SIM	SIMILAR
BFV	BUTTERFLY VALVE	DWCCC	DAVIS AND WEBER COUNTIES	HV	HOSE VALVE			SL	SLOPE
BK	BOOK/BACK	DIAG	CANAL COMPANY	HWY	HIGHWAY	- P -		SLV	SLEEVE
BL-FLG	BLIND FLANGE	DWG	DRAWING			P	POLE/PRESSURE/PIPE/POWER	SO SPC	STUBOUT STATE PLANE COORDINATES
BLDG	BUILDING	-		- -		' P/L / ዊ	PROPERTY LINE	SPC SPEC(S)	SPECIFICATION(S)
BLK	BLOCK	- E -		ID	INSIDE DIAMETER	PAT	PATENT	SPEC(S) SQ	SQUARE
BLM		E	EAST OR EDGE	IN	INCH	PAVMT	PAVEMENT	SQ FT	SQUARE FOOT (FEET)
BLVD	BOULEVARD	EA		INST	INSTALL	PB	PULL BOX	SQ YD	SQUARE YARD
BM	BENCHMARK	EC	EPOXY COATED/END OF CURB	INSTR	INSTRUMENT	PC	PRESSURE CLASS	SR	SAMPLE RETURN
BO		ECC EF		INSUL	INSULATION	PCCP	PRESTRESSED CONCRETE CYLINDER PIPE	SRM	SINGLE RESIDENTIAL MAIN
BOC	BACK OF CURB		EACH FACE	INT	INTERIOR	PDL	PUMP DISCHARGE LINE	SS	SANITARY SEWER
BOT	BOTTOM	EL		INV	INVERT	PE	PLAIN END/POLYETHYLENE PIPE	ST	STREET
BOW BPV	BACK OF WALK BACK PRESSURE VALVE	ELEC ELEV	ELECTRICAL ELEVATION	IPS		PED	PEDESTAL	STA	STATION
BPV BRG	BACK PRESSURE VALVE BEARING	ELEV ELL	ELEOW	IRR	IRRIGATION	PERM	PERMANENT	STD	STANDARD
BRG BS	BEARING BACK SIGHT	ELL ENG		- J -		PERP	PERPENDICULAR	STIR	STIRRUP
BUR	BACK SIGHT BURIED	ENG ENGR	ENGINE/ENGINEERING ENGINEER	JT	JOINT	PG	PRESSURE GAGE	STL	STEEL
BUR BV	BALL VALVE	ENGR	EDGE OF PAVEMENT			PH	PHASE	STLT	STREET LIGHT
BW	BALL VALVE BOTH WAYS/BACK OF SIDEWALK	EOP	EDGE OF PAVEMENT EDGE OF SHOULDER	- K -		PI	POINT OF INTERSECTION	SST	STAINLESS STEEL
2		EPP	EPOXY AND POLYURETHANE	kg	KILOGRAM	PHYD	POST HYDRANT	SUPPL	SUPPLEMENT
- C -		EQ	EQUAL OR EQUATION	km	KILOMETER	PKG	PACKAGE	SUR	SURVEY
C/C	CENTER TO CENTER	EQ EQ SP	EQUAL OR EQUATION EQUALLY SPACED			PKWY	PARKWAY	SV	SOLENOID VALVE
C/C	CONDUIT	EQUIP	EQUIPMENT	- L -		PL	PLACE/PLATE/PARCEL LINE	SW	SIDEWALK OR SOUTHWEST
C&G	CURB & GUTTER	EQUIV	EQUIVALENT	LAD	LADDER	PLS	PROFESSIONAL LAND SURVEYOR	SY	SQUARE YARD
CAL	CALIBRATE	ESMT	EASEMENT	LB OR #	POUND	PLT	PLATE (DRAWING)	SYM	SYMBOL
CAP	CAPACITY	EST	ESTIMATE	LDR	LEADER	PO	PUSH-ON	SYMM	SYMMETRICAL
CAV	COMBINATION AIR VALVE	ETC	ETCETERA	LEN OR L	LENGTH OF CURVATURE	POLY	POLYETHYLENE	SYS	SYSTEM
CB		EW	EACH WAY	LF	LINEAR FOOT	PP	POWER POLE		
CEM	CEMENT	EXC	EXCAVATE	LG	LONG	PPM	PARTS PER MILLION	- T -	
CI	CAST IRON	EXIST	EXISTING	LN	LANE	PR	PAIR	t	THICKNESS OF WELD
CIP	CAST IRON PIPE/CAST IN PLACE	EXP JT	EXPANSION JOINT	LT	LEFT/LIGHT	P/R	PATENT RESERVATION	Т	TELEPHONE/TANGENT
CIR	CIRCLE	EXT	EXTENSION	LWR	LOWER	PRC	PRECAST REINFORCED CONCRETE	T&B	TOP & BOTTOM
CIRCUM	CIRCUMFERENCE					PRELIM	PRELIMINARY	T&G	TONGUE AND GROOVE
CJP	COMPLETE JOINT PENETRATION	- F -		- M -		PRIM	PRIMARY	TAN	TANGENT
CL	CEMENT LINED	F/F	FACE TO FACE	M	METER	PROP	PROPOSED	TBE	THREAD BOTH ENDS
CL OR Ç	CENTERLINE	F/F FABR	FACE TO FACE FABRICATION/FABRICATED	MATL	MATERIAL	PRV	PRESSURE REGULATING VALVE	ТВМ	TEMPORARY BENCH MARK
CL2	CHLORINE	FABR	FACE OF CURB	MAX		PS	PRESSURE SWITCH/PUMP STATION	тс	TOP OF CURB
CLG	CEILING	FD	FLOOR DRAIN	MC	MORTAR COATED	PSF	POUNDS PER SQUARE FOOT	TD	TRENCH DRAIN
CLO	CLEANOUT			MEAS	MEASUREMENT	PSI	POUNDS PER SQUARE INCH	TDH	TOTAL DYNAMIC HEAD
CLP	CLAMP	FDN		MECH	MECHANICAL	PT	POINT/POINT OF TANGENCY	TEMP	TEMPORARY
CLP	CLEAR	FF	FINISHED FLOOR	MFR	MANUFACTURER	PTW	POLYETHYLENE TAP WRAP	THK	THICK(NESS)
CLR CLSM	CLEAR CONTROLLED LOW STRENGTH MATERIAL	FG	FINISHED GRADE	MG	MILLION GALLONS	PV	PLUG VALVE	THR BLK	THRUST BLOCK
CLSM	CEMENT MORTAR	FH		MGD	MILLION GALLONS PER DAY	PVC	POLYVINYL CHLORIDE PIPE	THRD	THREADED
CM	CENTIMETER			MH	MANHOLE			ТК	TANK
CMCL	CENTIMETER CEMENT MORTAR COATING AND LINING			MIN				ТМН	TOP OF MANHOLE
CMCL	CEMENT MORTAR COATING AND LINING CORRUGATED METAL PIPE	FLG	FLANGE	MISC	MISCELLANEOUS MECHANICAL JOINT			TOE	THREAD ONE END
ONE	CORRUGATED METAL PIPE CONCRETE MASONRY UNIT	FLR		MJ MKR	MECHANICAL JOINT MARKER			TOF	TOP OF FOOTING
CMU		FM	FLOW METER	IVITALA					
CMU CO	COUNTY/COMPANY/CONTRACT							TOG	TOGETHER

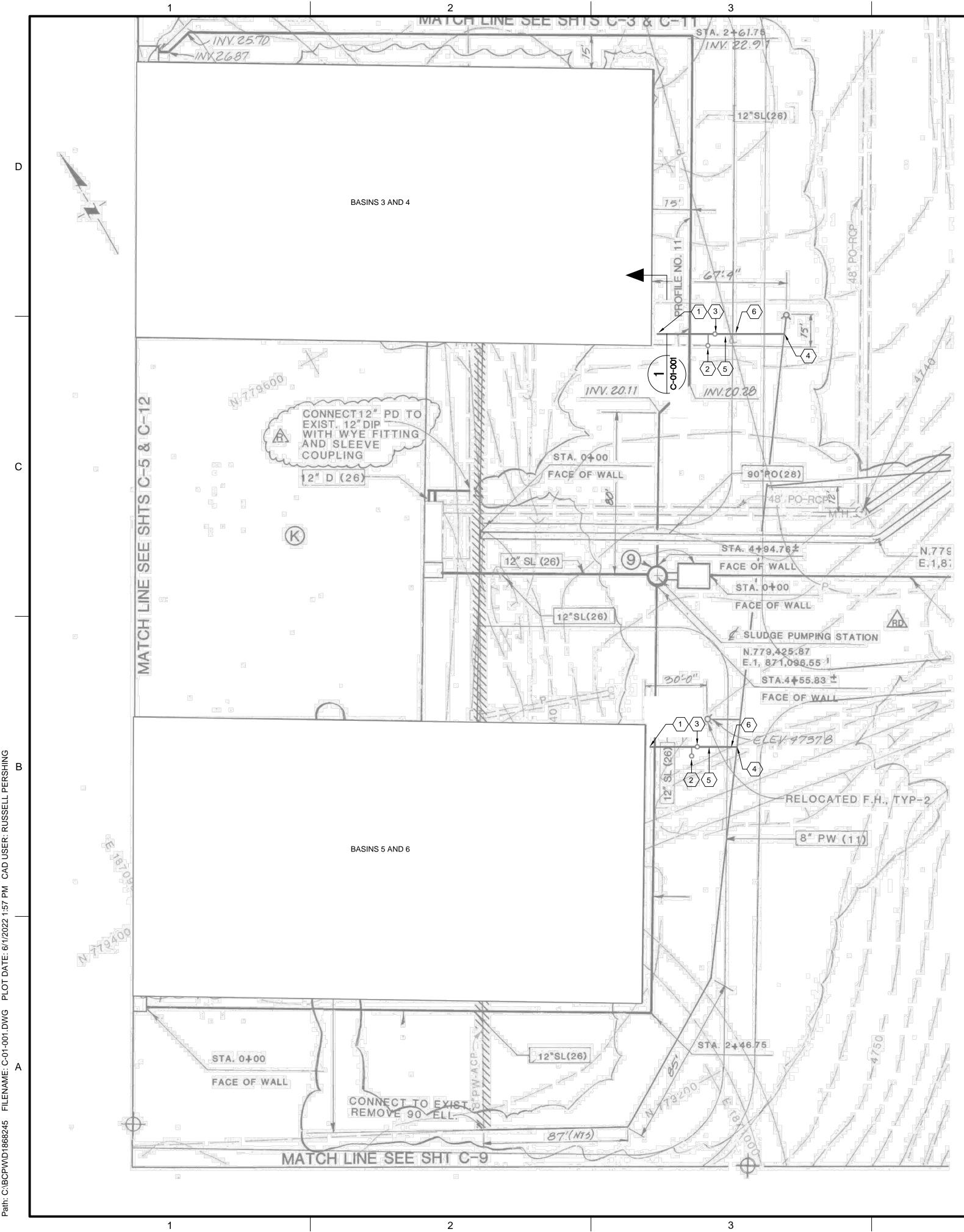
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- T ·	(CONT.)		
TOGR	TOP OF GRATE		
TOP	TOP OF PIPE		
TOR	TOP OF RIM	Brown AND	
TOS	TOP OF SLAB	Caldwell	
TOSTL	TOP OF STEEL	Caluwell	
TOSW	TOP OF SIDEWALK		
TOT TOW	TOTAL TOP OF WALL		
TP	TELEPHONE POLE/TOP OF PIPE		
TR	TRAIL OR TRACK/TOP OF RIM		
TRANS	TRANSITION/TRANSMISSION		-
(TYP)	TYPICAL		D
- U	-		
UDOT	UTAH DEPARTMENT OF TRANSPORTATION		
UE			
UFC			
UG UGC	UNDERGROUND UNDERGROUND CONDUIT		
UGP	UNDERGROUND POWER		
UGT	UNDERGROUND TELEPHONE		
UL	UNDERWRITERS LABORATORIES		
UNC	AMERICAN STANDARD UNIFIED COARSE THREAD		
UNF	AMERICAN STANDARD UNIFIED FINE THREAD		
UNIV	UNIVERSAL		
UNO		PROFESSION	
UPC UPRR	UNIFORM PLUMBING CODE UNION PACIFIC RAILROAD	and a statistic	
USGS	UNITED STATES GEODETIC SURVEY	♦ No. 8887408 Z JACOB C.	
UTIL	UTILITIES	HIMEBAUGH	
		6/2/22	
- V	-	ATE OF UT ALL STATE	
V	VOLT OR VALVE		
VAC	VACUUM		
VAR	VARIES		
VB VC	VALVE BOX VERTICAL CURVE	BID SET	С
VC VCP	VERTICAL CORVE VITRIFIED CLAY PIPE		
VEL	VELOCITY		
VENT	VENTILATOR		
VERT	VERTICAL		
VFD	VARIABLE FREQUENCY DRIVE		
VG	VALLEY GUTTER		
VHF			
VIB	VIBRATION	JORDAN VALLEY WATER	
VIN VISC	VINYL VISCOSITY	CONSERVANCY DISTRICT	
VOL	VOLUME		
VPI	VERTICAL POINT OF INTERSECTION		
VS	VALVE SHEET		
VT	VENT	JVWTP	
V I	VEINI		
VI	VENT		
- W	-	SOLIDS COLLECTION	
- W W/	- WITH	SOLIDS COLLECTION EQUIPMENT	
- W W/ W	- WITH WEST/WATER	SOLIDS COLLECTION	
- W W/ W/O	- WITH WEST/WATER WITHOUT	SOLIDS COLLECTION EQUIPMENT	
- W W/ W	- WITH WEST/WATER	SOLIDS COLLECTION EQUIPMENT	
- W W/ W/O WD	- WITH WEST/WATER WITHOUT WIDTH	SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT	
- W W/ W/O WD WDN	- WITH WEST/WATER WITHOUT WIDTH WASTE DRAIN	SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT REVISIONS	
- W W/ W/O WD WDN WF WH WI	- WITH WEST/WATER WITHOUT WIDTH WASTE DRAIN WIDE FLANGE WALL HYDRANT WROUGHT IRON	SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT REVISIONS	В
- W W/ W/O WD WDN WF WH WI WL	- WITH WEST/WATER WITHOUT WIDTH WASTE DRAIN WIDE FLANGE WALL HYDRANT WROUGHT IRON WASTE LINE	SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT REVISIONS	В
- W W/ W/O WD WDN WF WH WI WL WLD	- WITH WEST/WATER WITHOUT WIDTH WASTE DRAIN WIDE FLANGE WALL HYDRANT WROUGHT IRON WASTE LINE WELDED	SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT REVISIONS	В
- W W/ W/O WD WDN WF WH WI WL	- WITH WEST/WATER WITHOUT WIDTH WASTE DRAIN WIDE FLANGE WALL HYDRANT WROUGHT IRON WASTE LINE	SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT REVISIONS	В
- W W/ W/O WD WDN WF WH WI WL WL WLD WM	- WITH WEST/WATER WITHOUT WIDTH WASTE DRAIN WASTE DRAIN WIDE FLANGE WALL HYDRANT WROUGHT IRON WASTE LINE WELDED WATER METER	SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT REVISIONS	В
- W W/ W/O WD WDN WF WH WI WL WLD WLD WM WP	- WITH WEST/WATER WITHOUT WIDTH WASTE DRAIN WASTE DRAIN WIDE FLANGE WALL HYDRANT WROUGHT IRON WASTE LINE WELDED WATER METER WORK POINT/WEATHER PROOF	SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT REVISIONS	В
- W W/ W/O WD WDN WF WH WI WL WLD WLD WM WP WS	- WITH WEST/WATER WITHOUT WIDTH WASTE DRAIN WASTE DRAIN WIDE FLANGE WALL HYDRANT WROUGHT IRON WASTE LINE WELDED WATER METER WORK POINT/WEATHER PROOF WATER SURFACE	SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT REVISIONS REV DATE DESCRIPTION	В
- W W/ W/O WD WDN WF WH WI WL WLD WLD WLD WM WP WS WSP WSTP WSTP	- WITH WEST/WATER WITHOUT WIDTH WASTE DRAIN WIDE FLANGE WALL HYDRANT WROUGHT IRON WASTE LINE WELDED WATER METER WORK POINT/WEATHER PROOF WATER SURFACE WELDED STEEL PIPE WATER STOP WEIGHT	SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT REVISIONS REV DATE DESCRIPTION	В
- W W/ W/O WD WDN WF WH WI WL WLD WLD WLD WLD WS WSP WSP WSTP WSTP WT	- WITH WEST/WATER WITHOUT WIDTH WASTE DRAIN WIDE FLANGE WALL HYDRANT WROUGHT IRON WASTE LINE WELDED WATER METER WORK POINT/WEATHER PROOF WATER SURFACE WELDED STEEL PIPE WATER STOP WEIGHT WATER	SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT REVISIONS REV DATE DESCRIPTION	В
- W W/ W/O WD WDN WF WH WL WLD WLD WLD WM WP WS WSP WSP WSTP WSTP WT WT WTR WV	- WITH WEST/WATER WITHOUT WIDTH WASTE DRAIN WIDE FLANGE WALL HYDRANT WROUGHT IRON WASTE LINE WELDED WATER METER WORK POINT/WEATHER PROOF WATER SURFACE WELDED STEEL PIPE WATER STOP WEIGHT WATER WATER VALVE	SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT REVISIONS REV DATE DESCRIPTION	В
- W W/ W/O WD WDN WF WH WI WL WLD WLD WLD WLD WLD WS WSP WSP WSTP WSTP WSTP WT WTR WV	.WITHWEST/WATERWITHOUTWIDTHWASTE DRAINWIDE FLANGEWALL HYDRANTWROUGHT IRONWASTE LINEWELDEDWATER METERWORK POINT/WEATHER PROOFWATER SURFACEWELDED STEEL PIPEWATER STOPWEIGHTWATER VALVEWATER VALVEWELDED WIRE FABRIC	SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT REVISIONS REV DATE DESCRIPTION DESCRIPTION DESIGNED: J. HIMEBAUGH DRAWN: T. DIMICELI	В
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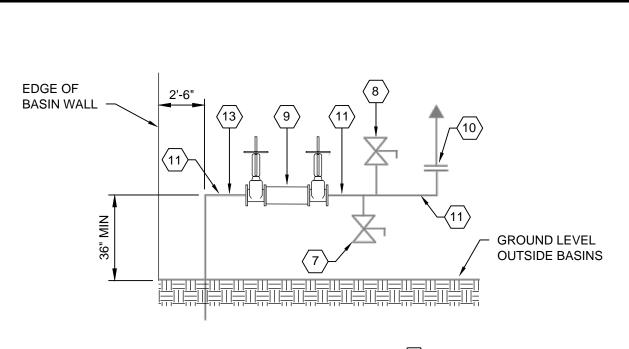


	6		
G	ENERAL NOTES:		
1.	THE CONTRACTOR SHALL STAGE AND STORE ALL MATERIAL AND EQUIPMENT IN THE DESIGNATED STAGING AREAS.	Brown AND .	
2.	ACCESS TO SITE SHALL BE THROUGH THE SOUTH ENTRANCE DESIGNATED ON THIS DRAWING. ALL DELIVERIES SHALL BE VIA THIS ENTRANCE.	Caldwell	
3.	VERIFY LOCATION OF RAW WATER INFLUENT PIPE PRIOR TO STAGING AND ARRIVAL OF EQUIPMENT AND VEHICLES. LOCATION OF PIPE SHOWN ON THIS DRAWING MAY DIFFER THAN ACTUAL LOCATION.		D
4.	PROTECT RAW WATER INFLUENT PIPE AT CROSSINGS WITH THE ACCESS ROAD. LIMIT TRAFFIC TO H-20 RATED LOADINGS OR LESS. WHEN CROSSING WITH ANYTHING HEAVIER, PROTECT THE CROSSING WITH A BRIDGE (E.G. STEEL PLATES) TO DISTRIBUTE LOAD.		
5.	DO NOT STAGE EQUIPMENT WITHIN 25 FEET OF RAW WATER INFLUENT PIPE CENTERLINE.		
$\overline{\frown}$	KEY NOTES:		
1.		ROFESSION ROFESSION	
ı. 2.	SOUTH PLANT ENTRANCE	No. 8887408	
2. 3.	90" RAW WATER INFLUENT PIPE	HIMEBAUGH	
5.	30 RAW WATER INFLOENT FIFE	6/2/22 H	
\bigcirc	BUILDING INDEX:	BID SET	С
Α.	FILTER BUILDING		
В.	CHEMICAL/CONTROLS BUILDING		
C.	SEDIMENTATION BASIN 1		
D.	SEDIMENTATION BASIN 2		
E.	SEDIMENTATION BASIN 3		
F.	SEDIMENTATION BASIN 4	JORDAN VALLEY WATER	
G.	SEDIMENTATION BASIN 5	CONSERVANCE DISTRICT	
Н.	SEDIMENTATION BASIN 6		
		JVWTP	
		SOLIDS COLLECTION	
		EQUIPMENT	
		UPGRADE PROJECT	
		REVISIONS	
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		DRAWN: T. DIMICELI	
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		APPROVED: J. HIMEBAUGH	
		FILENAME G-00-004.dwg	
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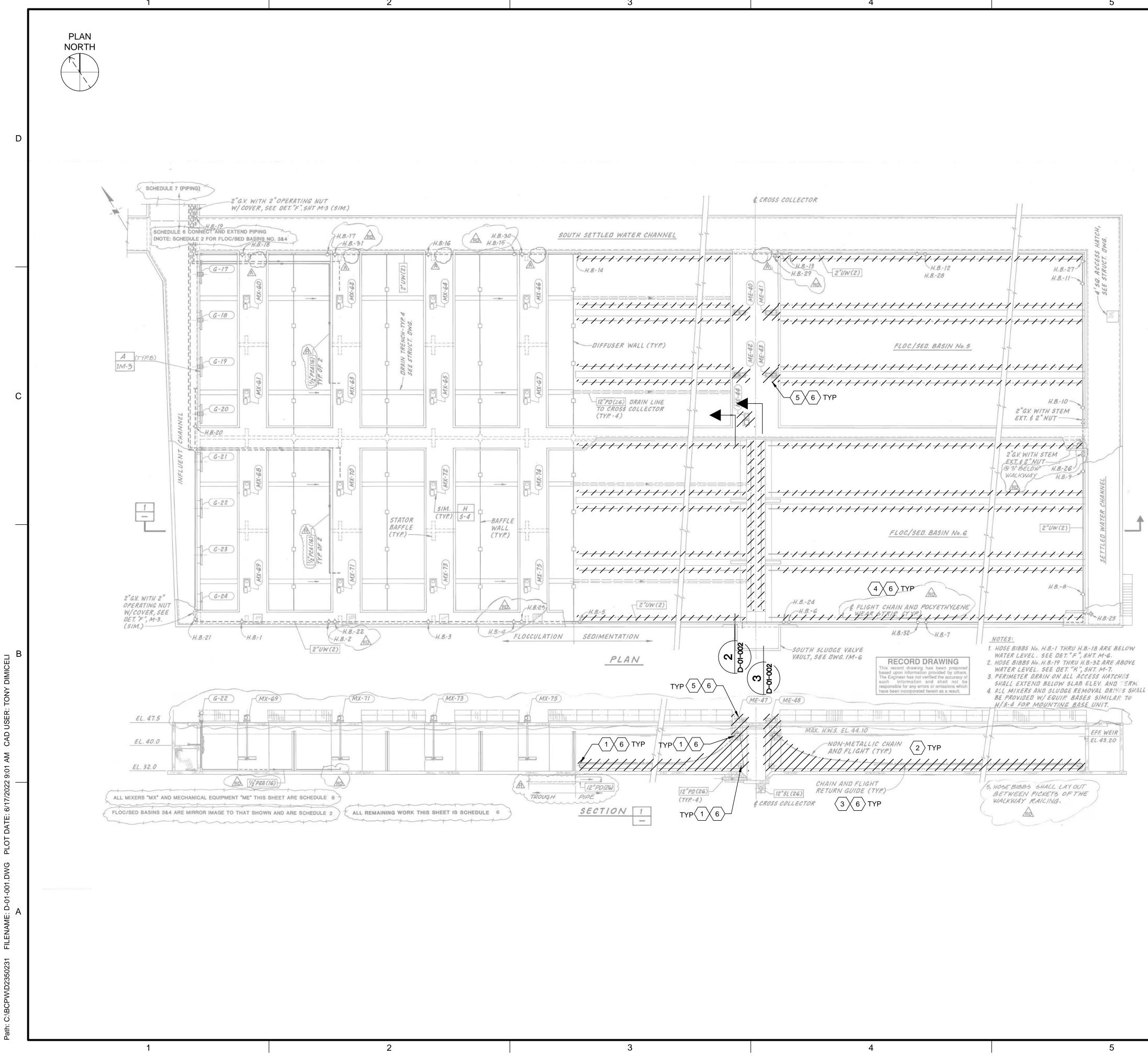
G	ENERAL NOTES:		
1. 2.	REFER TO DRAWINGS AND INSTALLATION INSTRUCTIONS PROVIDED BY EACH MANUFACTURER DURING THE SUBMITTAL PROCESS FOR ALL INFORMATION REQUIRED FOR INSTALLATION OF THE CHAIN AND FLIGHT AND PLATE SETTLER EQUIPMENT. ALL ANCHORS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 01 73 24 AND SECTION 05 05 20. INSTALLATION	Brown AND Caldwell	
3.	SHALL BE IN ACCORDANCE WITH BOTH THE EQUIPMENT MANUFACTURER'S AND EPOXY SYSTEM MANUFACTURER'S INSTRUCTIONS. PROPER CARE SHALL BE TAKEN TO PREVENT CONTAMINATION OF STAINLESS STEEL COMPONENTS WITH		D
4.	FREE IRON. FOLLOW ALL RECOMMENDATIONS PROVIDED IN PARAGRAPH 8 OF ASTM A380. CONTRACTOR SHALL ALERT ENGINEER OF ANY BLOOMING OR EVIDENCE OF RUST FOUND ON STAINLESS STEEL COMPONENTS SUPPLIED BY THE MANUFACTURER PRIOR TO INSTALLATION. ANY BLOOMING OR EVIDENCE OF RUST FOUND AFTER INSTALLATION SHALL BE CLEANED AND		
5.	TESTED BY MANUFACTURER IN ACCORDANCE WITH ASTM A380. REFER TO WORK SEQUENCE SPECIFICATION (SECTION 01 12 16) FOR INFORMATION ON WORK RESTRICTIONS AND CONSTRUCTION SEQUENCING.		
6.	THIS SHEET REFERS TO GENERAL ASPECTS OF THE WORK CONTAINED IN THIS PROJECT TO PROVIDE CLARIFICATION TO THE DRAWING PACKAGE. IT IS NOT CONSIDERED A COMPLETE LIST OF THE WORK PERFORMED FOR THIS PROJECT. REFER TO ALL VOLUMES OF THE CONTRACT DOCUMENTS FOR A COMPLETE OVERVIEW OF THE WORK.	ROFESSION	
\bigcirc	KEY NOTES:		
1.	PERFORM WORK ON THE THREE CIRCULAR SOLIDS		
2.	REMOVAL MECHANISMS IN EACH BASIN (BASIN 1 AND BASIN 2). INSTALL THE CHAIN AND FLIGHT SOLIDS COLLECTION EQUIPMENT IN THE FORE AND AFT BAY OF BASIN 3 THROUGH BASIN 6. REFER TO VOLUME IV OF IV FOR FURTHER INFORMATION.		
-	PROVIDE AND INSTALL INCLINED PLATE SEDIMENTAITON EQUIPMENT IN BASIN 3 THORUGH BASIN 6. REFER TO SECTION 43 73 76 FOR FURTHER INFORMATION. PERFORM STRUCTURAL MODIFICATIONS ON EXTERIOR WALL OF BASIN 3 AS DISCUSSED IN THE CONTRACT	BID SET	С
5.	DOCUMENTS. PERFORM STRUCTURAL MODIFICATIONS ON THE NORTH		
6.	(PLAN NORTH) WALL OF BASIN 4 AS INSTRUCTED IN THE CONTRACT DOCUMENTS. PERFORM STRUCTURAL MODIFICATIONS ON THE SOUTH		
7.	(PLAN SOUTH) WALL OF BASIN 5 AS INSTRUCTED IN THE CONTRACT DOCUMENTS PERFORM STRUCTURAL MODIFICATIONS ON THE EXTERIOR WALL OF BASIN 6 AS INSTRUCTED IN THE CONTRACT DOCUMENTS.	JORDAN VALLEY WATER CONSERVANCY DISTRICT	
		JVWTP SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT	
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		GENERAL JVWTP BASIN LAYOUT	
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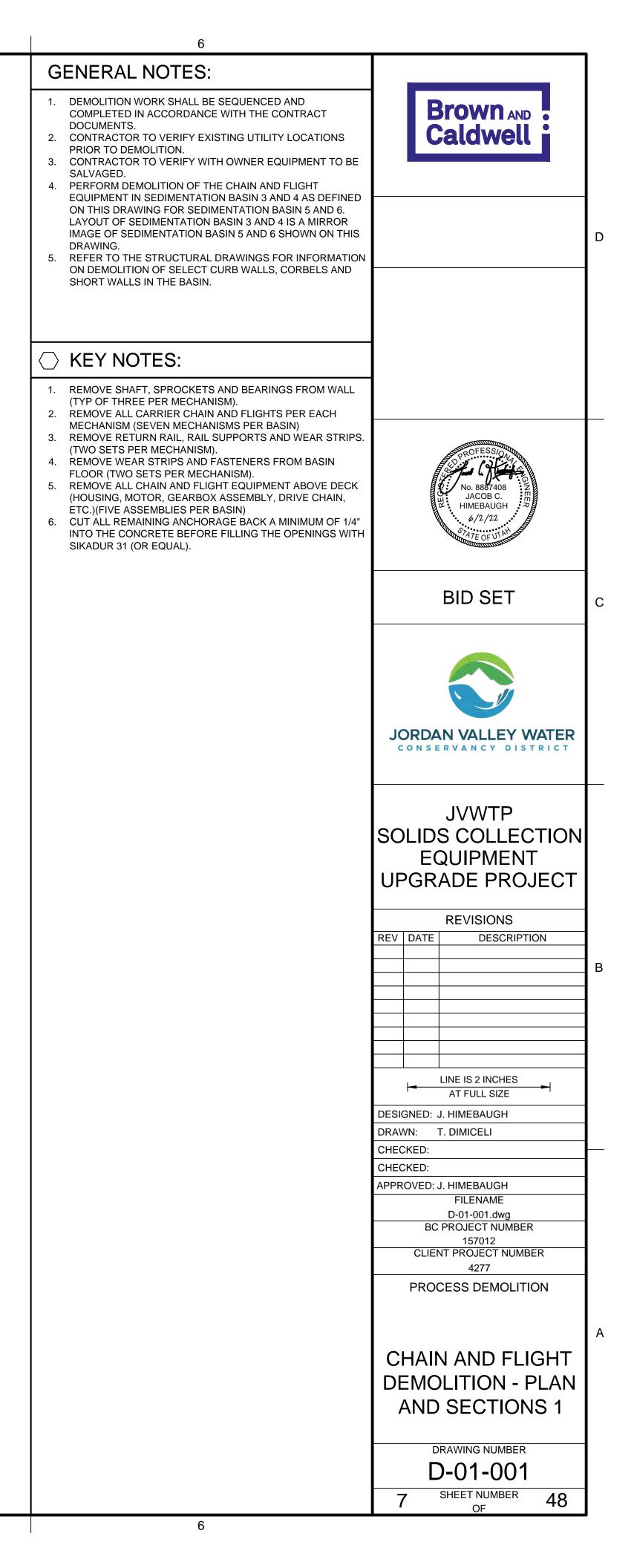


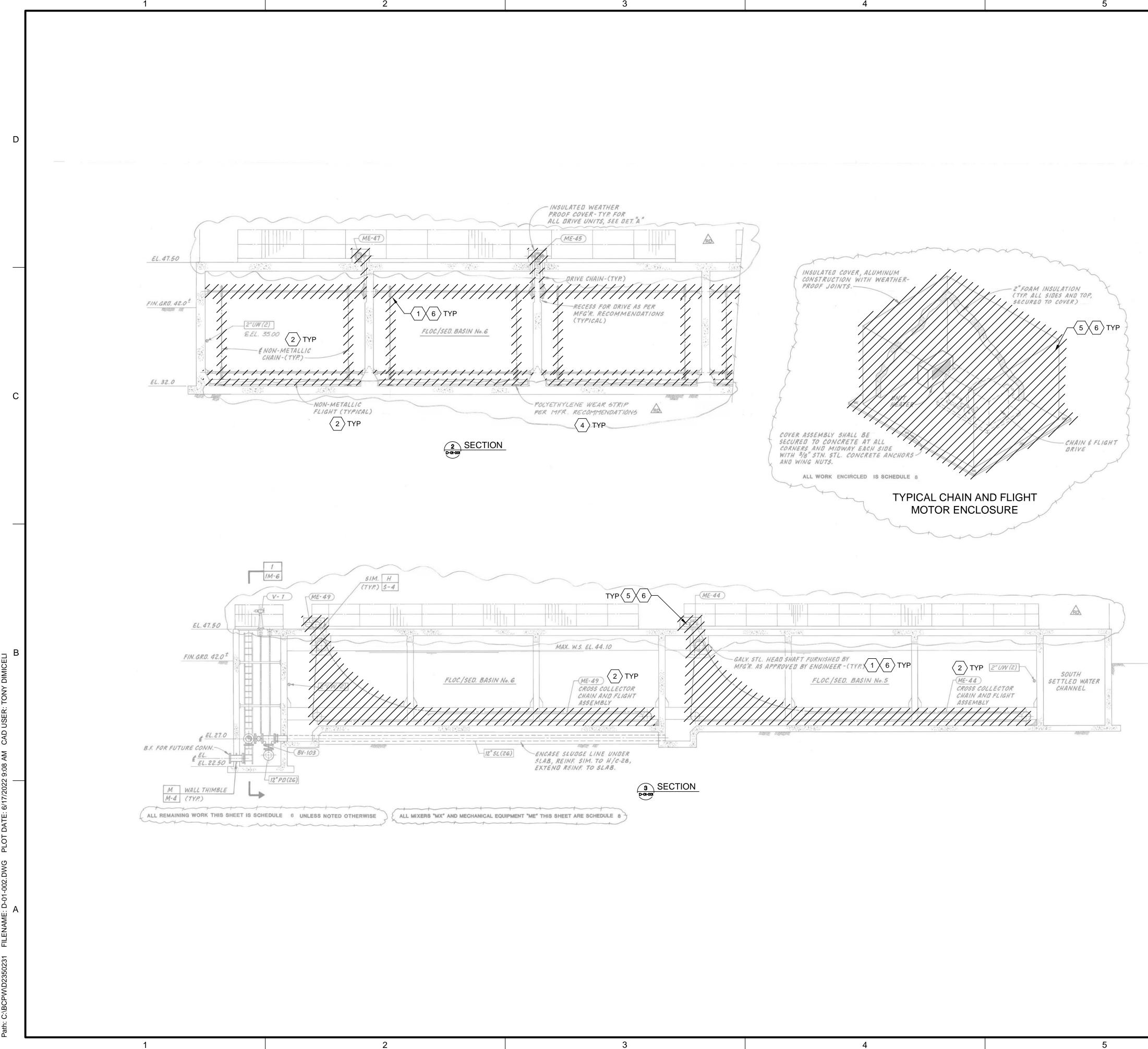


SECTION 1 (12) RPZ BACKFLOW PREVENTER DETAIL

G	ENERAL NOTES:	
1.	ALL ANCHORS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 01 73 24 AND SECTION 05 05 20. INSTALLATION SHALL BE IN ACCORDANCE WITH BOTH THE EQUIPMENT MANUFACTURER'S AND EPOXY SYSTEM MANUFACTURER'S INSTRUCTIONS.	Brown AND Caldwell
	KEY NOTES: PROVIDE BACKFLOW PREVENTER LAYOUT IN ACCORDANCE WITH THE DETAIL PROVIDED ON THIS DRAWING. PROVIDE A 1" BRASS CURB STOP VALVE TO DRAIN THE PIPING BETWEEN THE BACKFLOW PREVENTER AND THE ISOLATION VALVE MARKED AS KEYNOTE 3. INSTALL BELOW THE LOCAL FROST LINE OF 30" OR AT OR BELOW THE INVERT ELEVATION OF THE NEW 4" DUCTILE IRON PIPE. PROVIDE A CURB BOX AND OPERATOR KEY OF SUFFICIENT LENGTH TO ACCESS THE OPERATOR NUT ON THE VALVE FROM THE SURFACE. PROVIDE A 4" FLANGED AWWA 509 GATE VALVE (CLOW F-6102, AMERICAN AVK SERIES 25 OR EQUAL) IN LOCATION SHOWN. INSTALL BELOW THE LOCAL FROST LINE OF 30". PROVIDE AN EXTENSION STEM, VALVE BOX AND AWWA STANDARD 2-INCH SQUARE NUT OPERATOR WITHIN SIX INCHES OF THE VALVE BOX COVER. INSTALL VALVE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. PROTECT VALVE WITH SHRINK SLEEVE OR POLYETHYLENE SHEATH ATTACHED TO THE PIPE WITH TAPE WRAP. POSITION APPROXIMATELY 35" FROM BASIN WALL. CUT EXISTING PIPE TO INSTALL A FLANGED 8"x8"x4"	No. 8887408 JACOB C. HIMEBAUGH 6/2/22
	REDUCING TEE UP STREAM OF THE SHUT-OFF VALVE OF THE HYDRANT AS TO NOT INTERFERE WITH ITS OPERATION OR VALVE BOX. INSTALL TEE BETWEEN TWO US PIPE TR FLEX FLANGE CONNECTION PIECES. PROVIDE THRUST BLOCK ON BACK DESIGNED TO RESIST 150 PSI HYDROSTATIC PRESSURE. PROVIDE A SUBMITTAL WITH DETAILED DESIGN OF THE THRUST BLOCK PRIOR TO	BID SET
5.	INSTALLATION. USE DUCTILE IRON PIPE (250 PSI PRESSURE RATING MINIMUM) WITH US PIPE TR FLEX RESTRAINED JOINT PIPE. USE FLANGED CONNECTIONS FOR ABOVE GROUND PIPING. USE NON-CORROSIVE, HIGH STRENGTH, 316 STAINLESS STEEL FASTENERS FOR ALL BURIED CONNECTIONS. USE ASTM A193 GRADE B7 BOLTS AND ASTM A194 GRADE 2H HEAVY HEX NUTS FOR ALL ABOVE GROUND PIPING. COAT PIPE AND FASTENERS WITH AN NSF-61 CERTIFIED COATING SUCH AS TNEMIC SERIES 22 OR EQUAL.	JORDAN VALLEY WATER
	SAW CUT ASPHALT PRIOR TO REMOVING. AFTER REFILLING T-TRENCH, SAW CUT ASPHALT AROUND ANY DAMAGED EDGES BEFORE PATCHING. PATCH AREA WITH ASPHALT OF SAME GRADE AND THICKNESS AS EXISTING. PROVIDE A 2" SCH 80 GALVANIZED STEEL DRAIN WITH A BRASS BODIED BALL VALVE. CONNECT DRAIN TO UNDERSIDE OF PIPE USING A THREADED CONNECTION. PROVIDE A 1/2" SCHEDULE 80 GALVANIZED STEEL CONNECTION FOR AIR PURGING DURING WINTERIZATION	JVWTP SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT
9. 10.	WITH A BRASS BODIED BALL VALVE. CONNECT VENT TO TOP OF PIPE USING A THREADED CONNECTION. PROVIDE 4" NSF 61 COMPLIANT REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER (WATT SERIES 994 OR EQUAL) SUITABLE FOR OUTDOOR INSTALLATION. TRANSITION FROM DUCTILE IRON PIPE TO CPVC AT THIS LOCATION. SEE DRAWING M-01-001 FOR A CONTINUATION OF THE PIPING. REDUCE FROM 4" TO 3" IN CPVC AFTER FLANGE.	REVISIONS
	MOUNT 316 SS WALL BRACKET (UNISTRUT TYP P2945 OR EQUAL) AT LOCATIONS SHOWN USING TWO 316 SS ANCHORS AND HARDWARE. ATTACH PIPE TO BRACKET USING A 316 SS PIPE CLAMP (UNISTRUT TYPE P1119 OR EQUAL). DETAIL SHOWS RPZ FOR BASINS 3 AND 4. RPZ FOR BASINS	
13.	5 AND 6 IS A MIRROR IMAGE OF THAT SHOWN IN THE DETAIL. PROVIDE A 4" NSF 61 COMPLIANT PRESSURE REDUCING VALVE (WATTS SERIES LFF127W OR EQUAL) SUITABLE FOR OUTDOOR INSTALLATION.	LINE IS 2 INCHES AT FULL SIZE DESIGNED: J. HIMEBAUGH DRAWN: T. DIMICELI CHECKED: CHECKED:
		APPROVED: J. HIMEBAUGH FILENAME C-01-001.dwg BC PROJECT NUMBER 157012 CLIENT PROJECT NUMBER 4277 CIVIL
		CIVIL YARD PIPING
		DRAWING NUMBER C-01-001 6 SHEET NUMBER 48







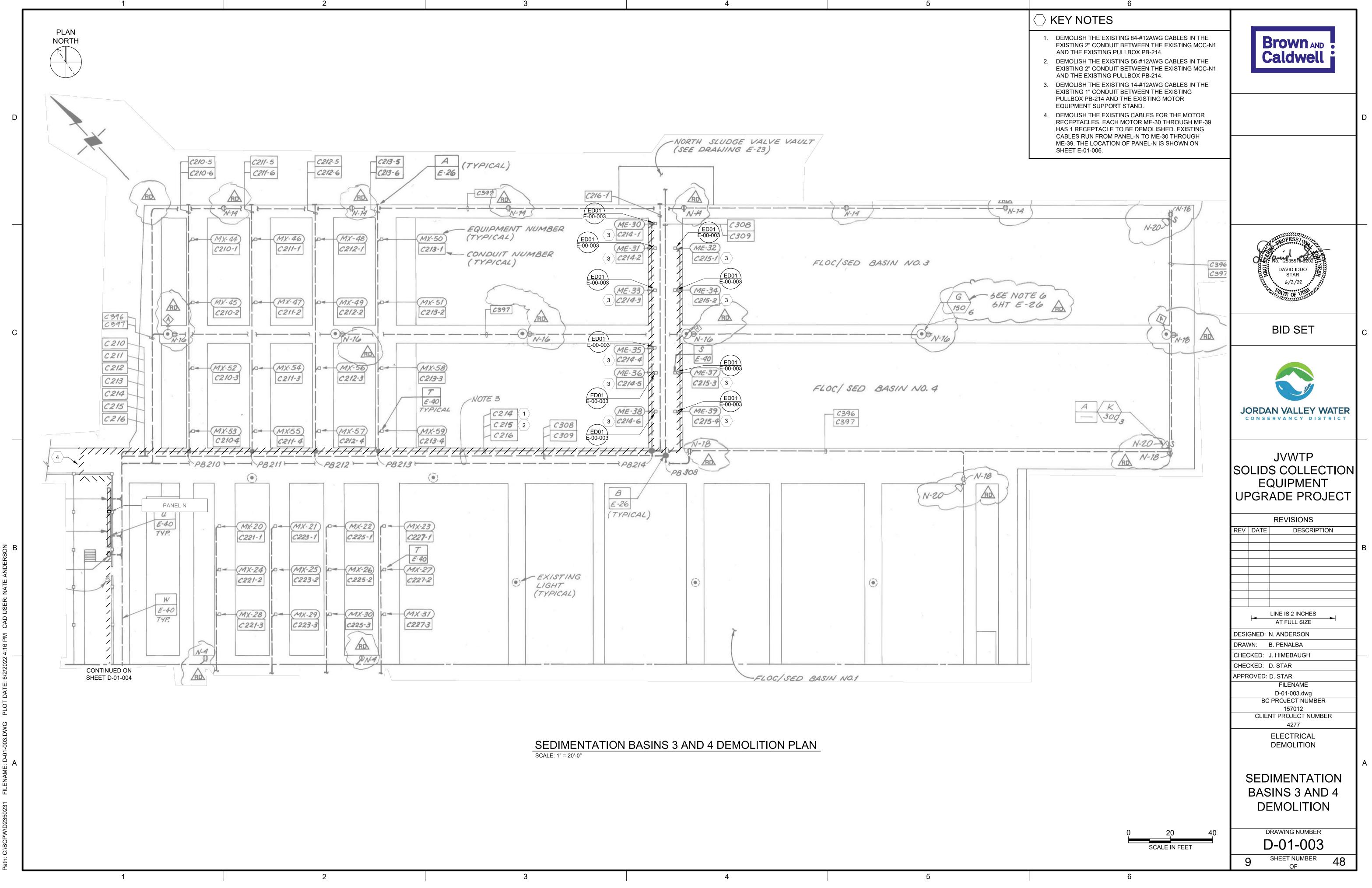
GENERAL NOTES: 1. DEMOLITION WORK SHALL BE SEQUENCED AND Brown AND COMPLETED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. Caldwell 2. CONTRACTOR TO VERIFY EXISTING UTILITY LOCATIONS PRIOR TO DEMOLITION. 3. CONTRACTOR TO VERIFY WITH OWNER EQUIPMENT TO BE SALVAGED. 4. PERFORM DEMOLITION OF THE CHAIN AND FLIGHT EQUIPMENT IN SEDIMENTATION BASIN 3 AND 4 AS DEFINED ON THIS DRAWING FOR SEDIMENTATION BASIN 5 AND 6. LAYOUT OF SEDIMENTATION BASIN 3 AND 4 IS A MIRROR IMAGE OF SEDIMENTATION BASIN 5 AND 6 SHOWN ON THIS DRAWING. 5. REFER TO THE STRUCTURAL DRAWINGS FOR INFORMATION ON DEMOLITION OF SELECT CURB WALLS, CORBELS AND SHORT WALLS IN THE BASIN. **KEY NOTES:** REMOVE SHAFT, SPROCKETS AND BEARINGS FROM WALL (TYP OF THREE PER MECHANISM). REMOVE ALL CARRIER CHAIN AND FLIGHTS PER EACH MECHANISM (SEVEN MECHANISMS PER BASIN) REMOVE RETURN RAIL, RAIL SUPPORTS AND WEAR STRIPS. (TWO SETS PER MECHANISM). REMOVE WEAR STRIPS AND FASTENERS FROM BASIN FLOOR (TWO SETS PER MECHANISM). REMOVE ALL CHAIN AND FLIGHT EQUIPMENT ABOVE DECK (HOUSING, MOTOR, GEARBOX ASSEMBLY, DRIVE No. 8887408 CHAIN, ETC.) (FIVE ASSEMBLIES PER BASIN) JACOB C. HIMEBAUGH 6. CUT ALL REMAINING ANCHORAGE BACK A MINIMUM OF 6/2/22 1/4" INTO THE CONCRETE BEFORE FILLING THE OPENINGS WITH SIKADUR 31 (OR EQUAL). BID SET JORDAN VALLEY WATER CONSERVANCY DISTRICT JVWTP SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT REVISIONS DESCRIPTION REV DATE LINE IS 2 INCHES -AT FULL SIZE DESIGNED: J. HIMEBAUGH DRAWN: T. DIMICELI CHECKED: CHECKED: APPROVED: J. HIMEBAUGH FILENAME D-01-002.dwg BC PROJECT NUMBER 157012 CLIENT PROJECT NUMBER 4277 PROCESS DEMOLITION CHAIN AND FLIGHT **DEMOLITION - PLAN** AND SECTIONS 2 DRAWING NUMBER D-01-002

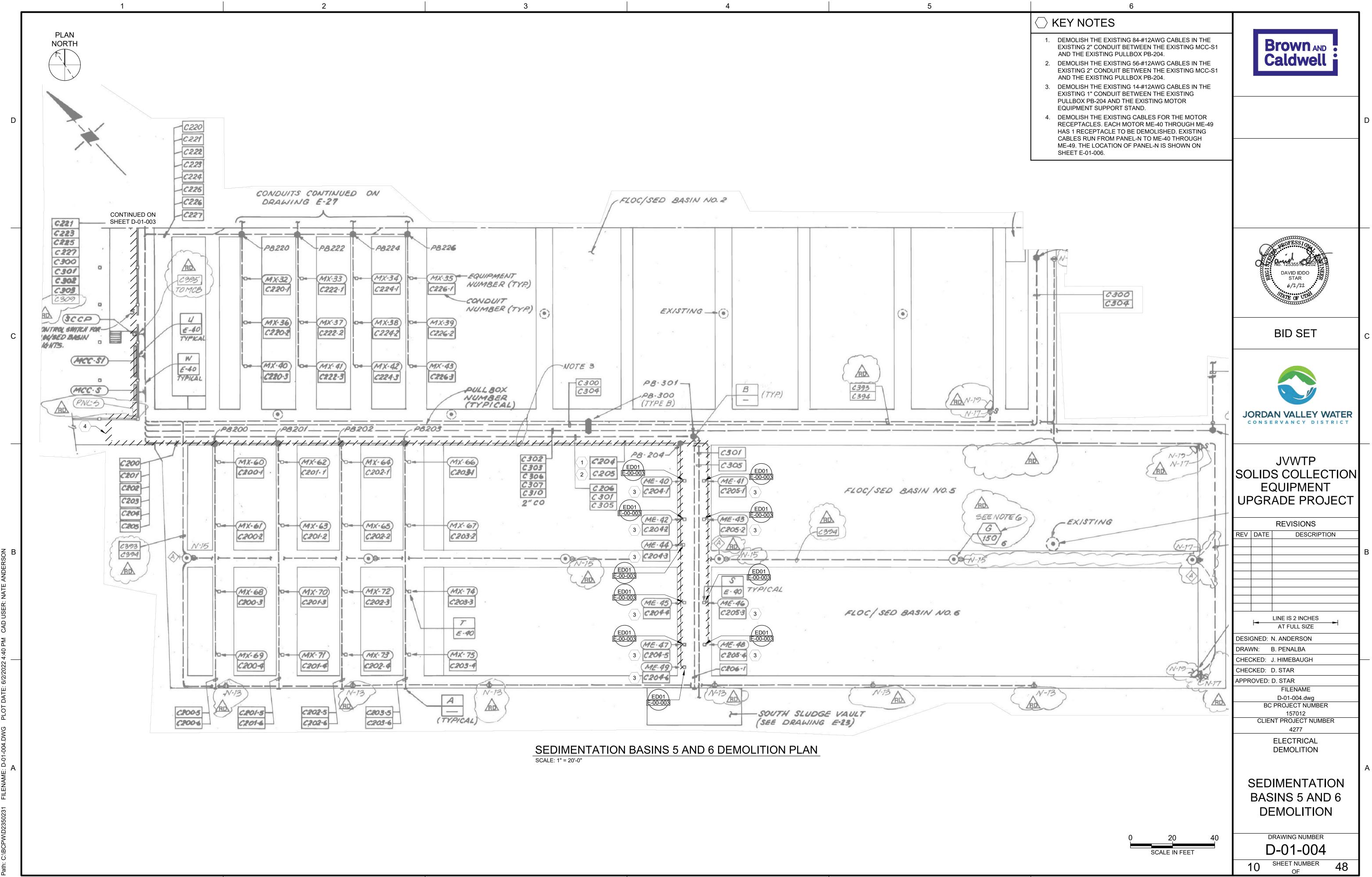
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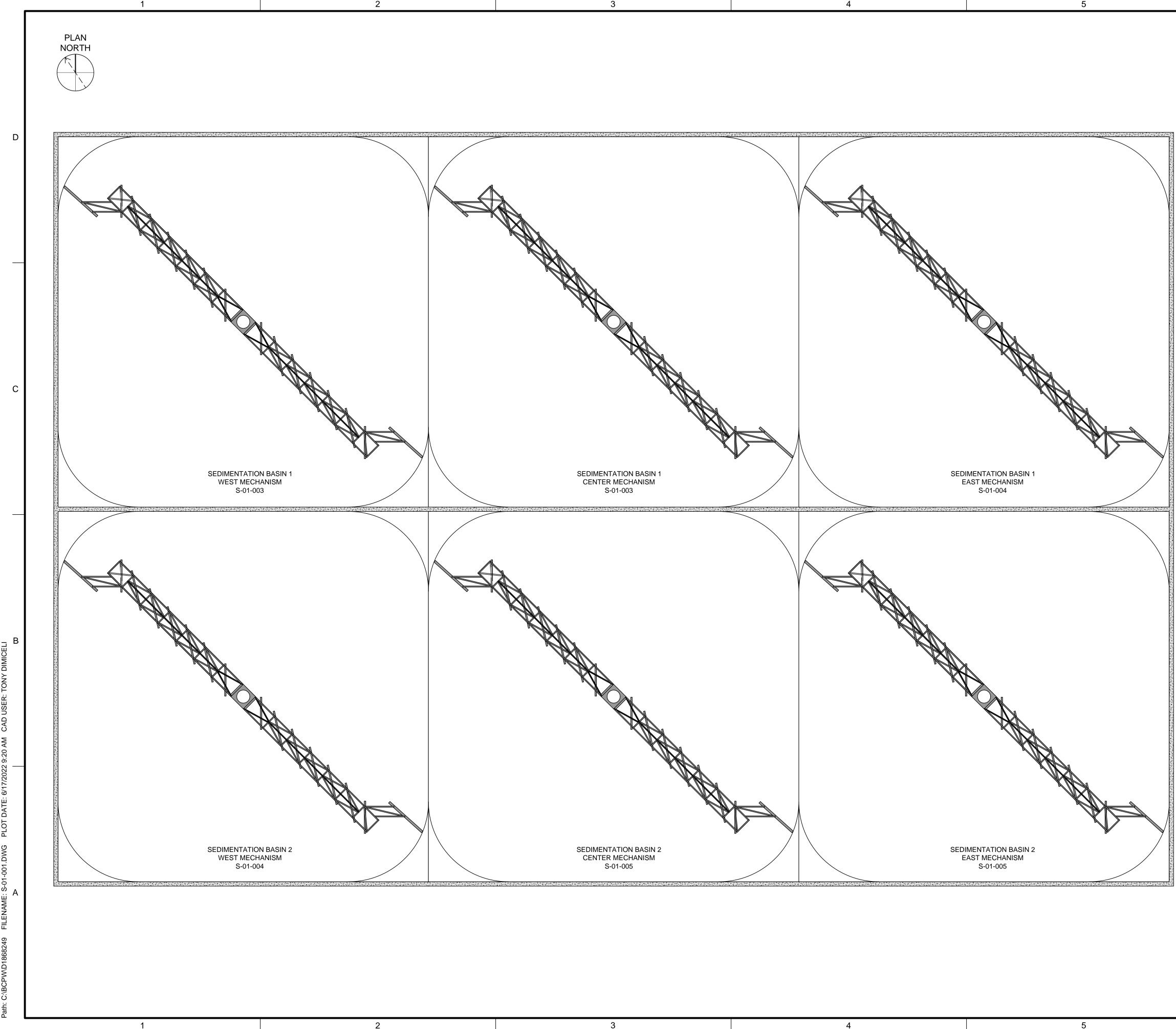
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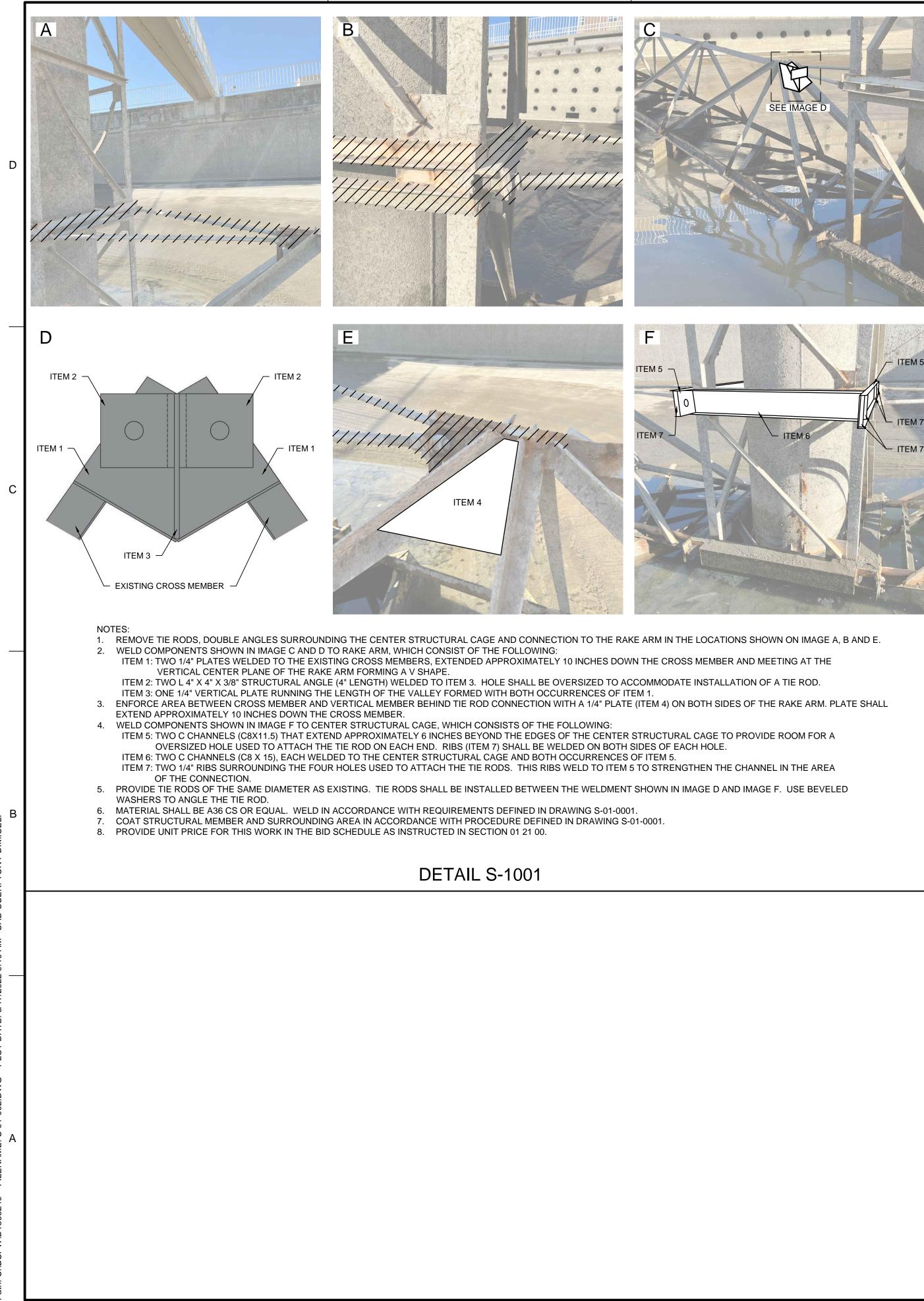


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GENERAL NOTES:

- 1. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF AWS D1.1. CONTRACTOR SHALL SUBMIT WELD PROCEDURE SPECIFICATIONS, PROCEDURE QUALIFICATION RECORDS AND WELDER CERTIFICATION RECORDS AS PART OF THE SUBMITTAL PROCESS.
- 2. AREAS OF DAMAGED COATING ON RAKE ARMS IN EXCESS OF FOUR INCHES SQUARED (2IN X 2IN) SHALL BE MARKED FOR RECOATING. INCLUDE (20) TWENTY AREAS PER MECHANISM FOR A TOTAL OF 80 INCHES SQUARED PER MECHANISM AS PART OF THE WORK INCLUDED IN THE BID. CONTRACTOR SHALL ALLOW ENGINEER TO INSPECT MARKED LOCATIONS AND RECOMMEND ANY ADDITIONAL AREAS FOR RECOATING PRIOR TO PERFORMING COATING REPAIRS.
- 3. COAT ALL AREAS MARKED FOR REPAIR AND ALL STRUCTURAL MEMBERS ADDED DURING THE WORK AS FOLLOWS:
- A. REMOVE DAMAGED COATING IN AFFECTED AREA IN ACCORDANCE WITH SSPC-SP 2 OR SSPC-SP 3.
- B. REMOVAL SHALL EXTEND BEYOND DAMAGED AREA OR NEW WELDS TO ENSURE NO LOOSE OR UNADHERED COATING EXISTS AROUND THE PERIMETER OF THE EFFECTED AREA.
- C. EXISTING COATING SHALL BE FEATHERED (TAPERED) BEYOND THE AFFECTED AREA OVER APPROXIMATELY TWO INCHES TO ENSURE A SMOOTH TRANSITION BETWEEN EXISTING AND THE AFFECTED AREA. NO SHARP EDGES SHALL EXIST OVER THE TRANSITION.
- D. COATING SHALL BE AN EPOXY COATING MEETING THE REQUIREMENTS PROVIDED IN AWWA C210. COATING SHALL BE NSF-61 CERTIFIED AND DESIGNED FOR IMMERSIVE SERVICE SUCH AS TNEMIC SERIES 22 OR EQUAL.
- E. RECOATING SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C210 AND MANUFACTURER'S INSTRUCTIONS.
- F. FINAL DRY FILM THICKNESS (DFT) SHALL BE NO LESS THAN 16 MILS. FINAL DFT MAY REQUIRE MULTIPLE COATS AS EACH COAT SHALL NOT EXCEED THE MAXIMUM DFT DEFINED BY THE MANUFACTURER.
- 4. PROVIDE COATING DATA SHEETS, COATING PROCEDURES AND INSPECTION PROCEDURES, INCLUDING THE QUALITY ASSURANCE PROGRAM OF THE COATER AS PART OF THE SUBMITTAL PROCESS.
- 5. EACH MECHANISM SHALL BE RE-LEVELED IN ACCORDANCE WITH THE FOLLOWING PROCEDURE:
 - A. VERIFY THE RAKE ARMS ARE PARALLEL TO THE FLOOR. IF RAKE ARM VARIES BY MORE THAN 1/8" FROM THE CENTER COLUMN TO THE END OF THE RAKE ARM, USE JACKS TO SUPPORT AND RAISE/LOWER THE RAKE ARM AND ADJUST TIE RODS TO SUPPORT THE RAKE ARM IN THE NEW POSITION. DO NOT ADJUST RAKE ARM WITH THE TIE RODS.
 - B. PERFORM A FULL ROTATION OF THE RAKE ARM AND VERIFY SQUEEGEES DO NOT INTERFERE WITH THE BASIN FLOOR. READJUST AS NECESSARY.

Brown AND Caldwell	
No. 276692 No. 276692 NEIL NORRIS KUNZ ST/F OF UTIN	D
No. 8887408 JACOB C. HIMEBAUGH 6/2/22	
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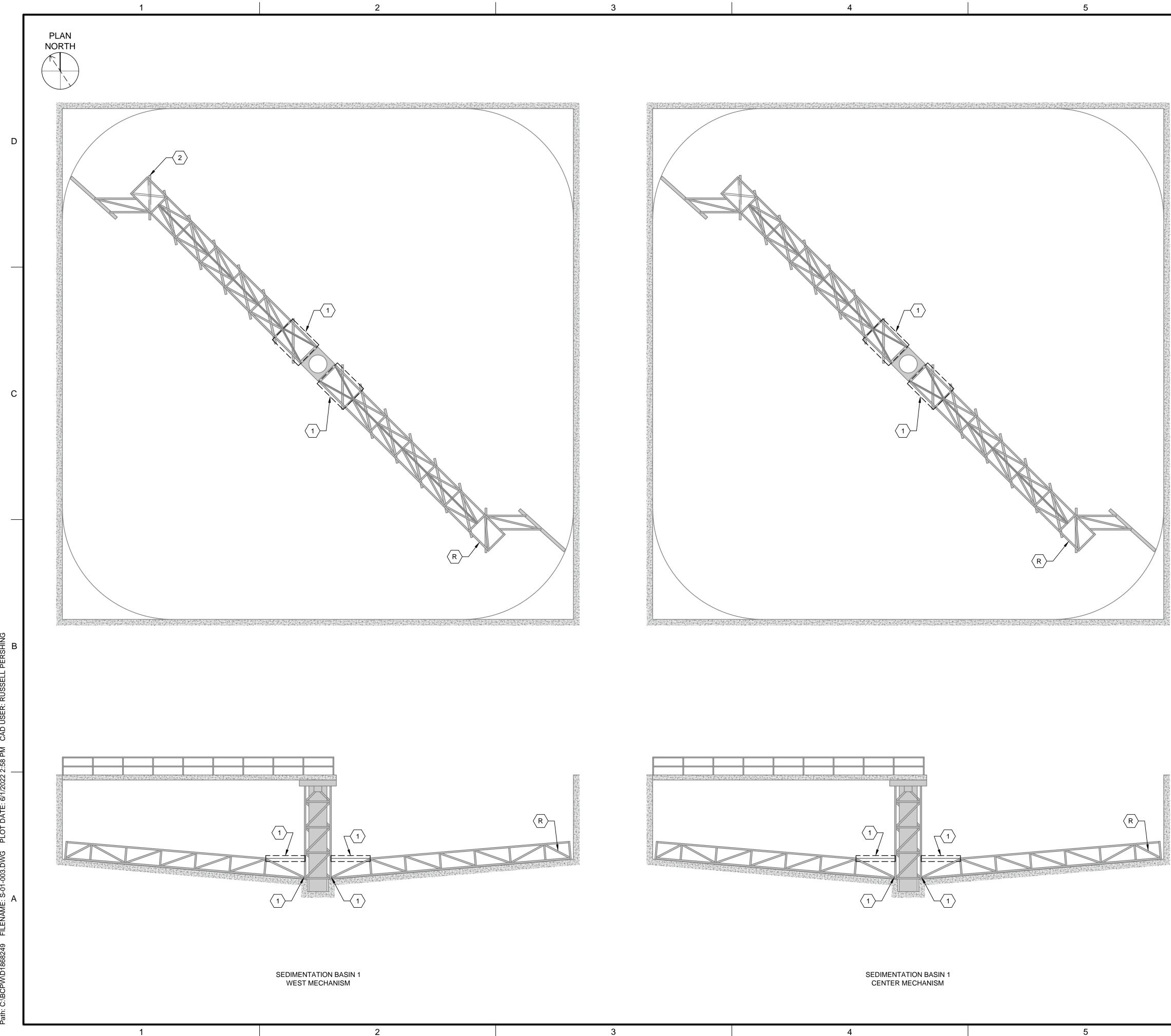


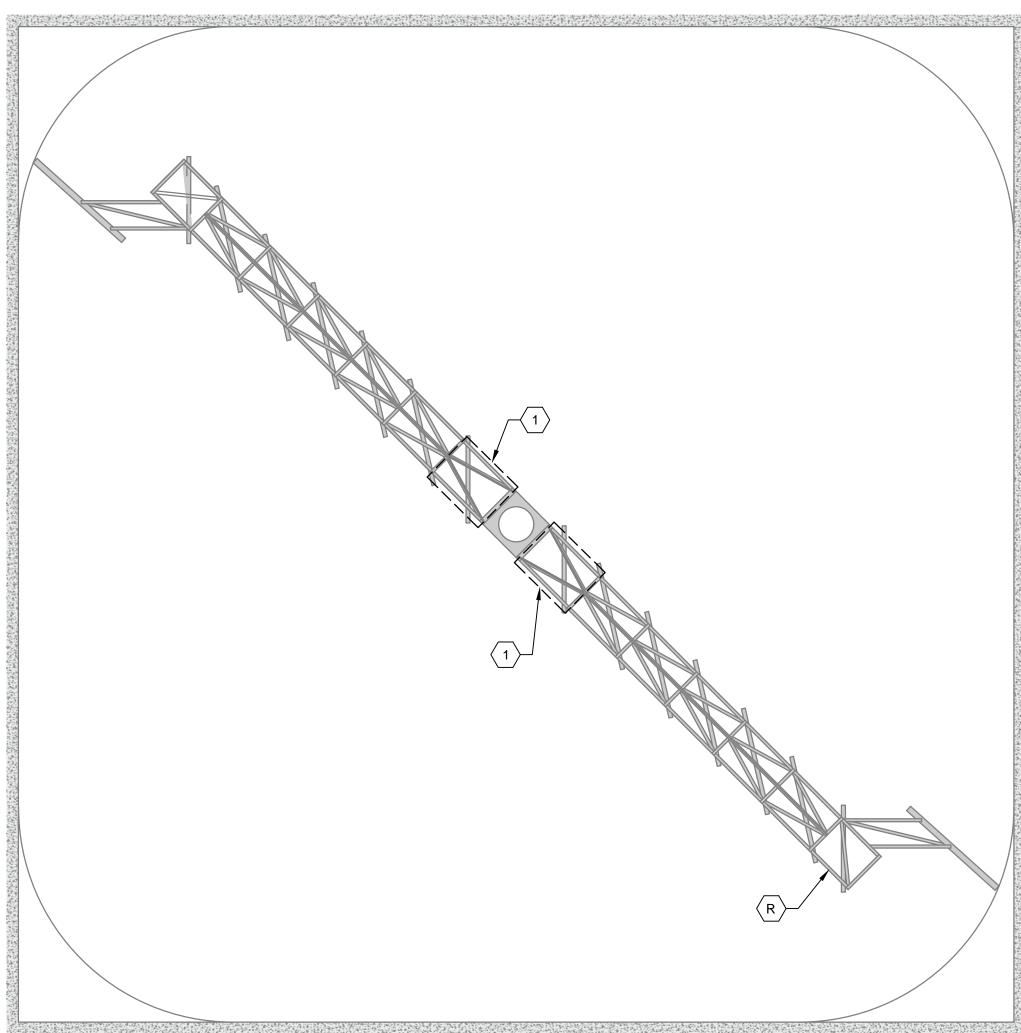
1. REMOVE BENT SQUEEGEE SUPPORT AND REPLACE WITH NEW SUPPORT OF THE SAME SIZE AND SHAPE. MATERIAL SHALL BE A36 CS OR EQUAL.

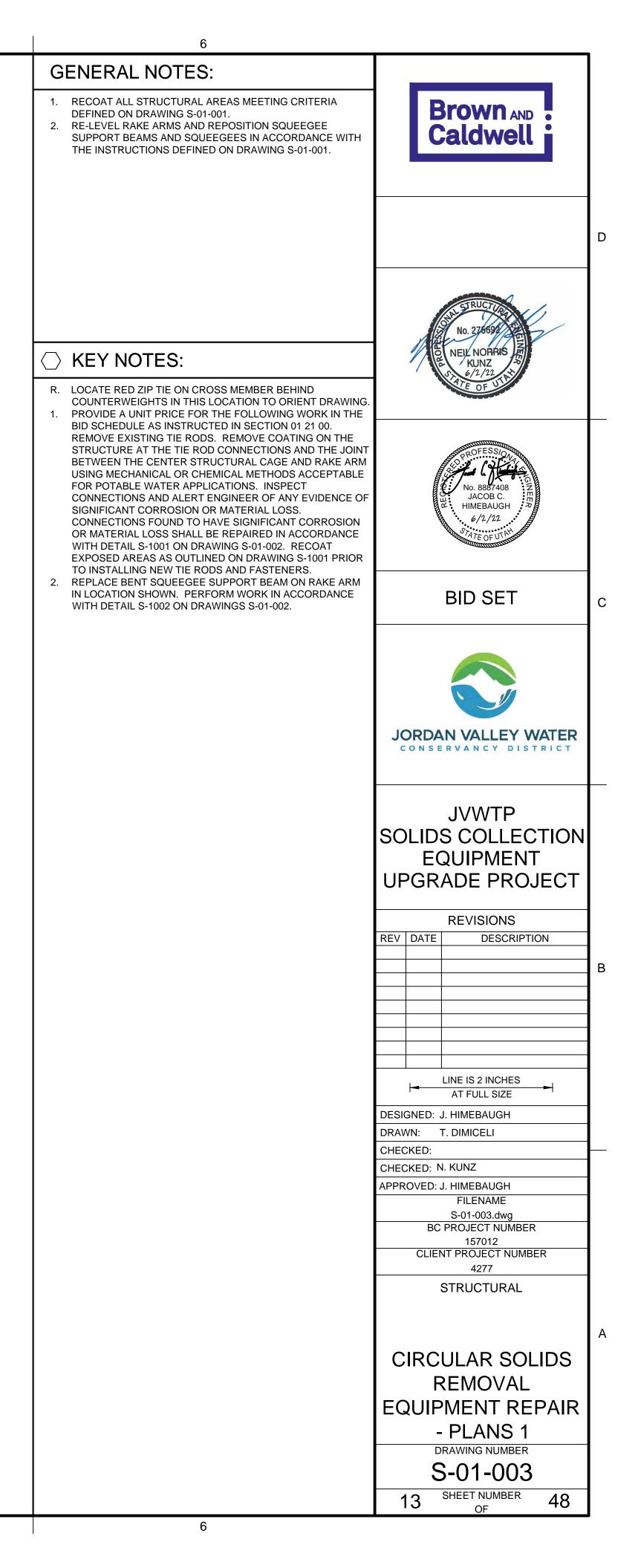
2. COAT SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS DEFINED IN DRAWING S-01-0001.

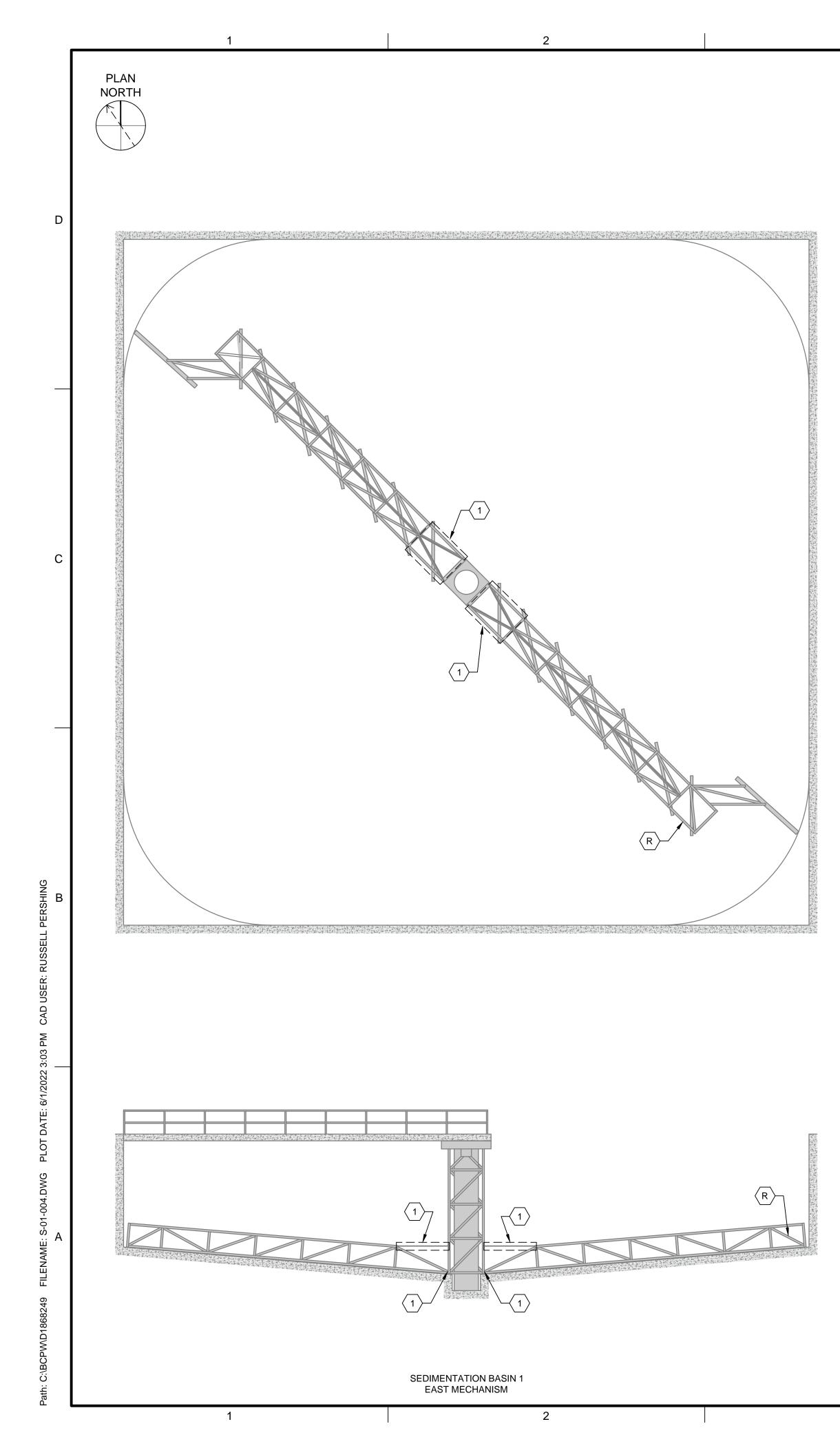
DETAIL S-1002

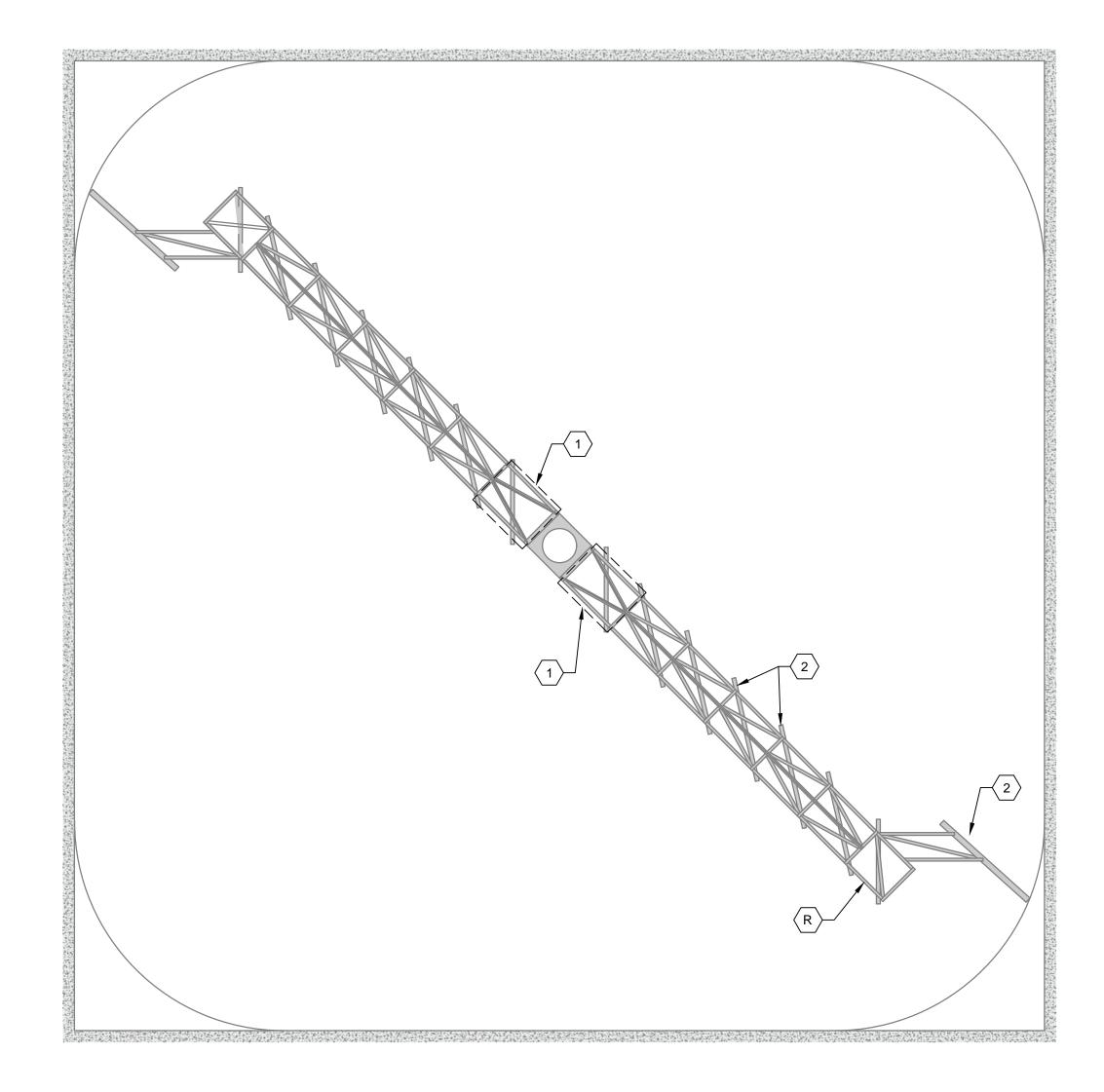


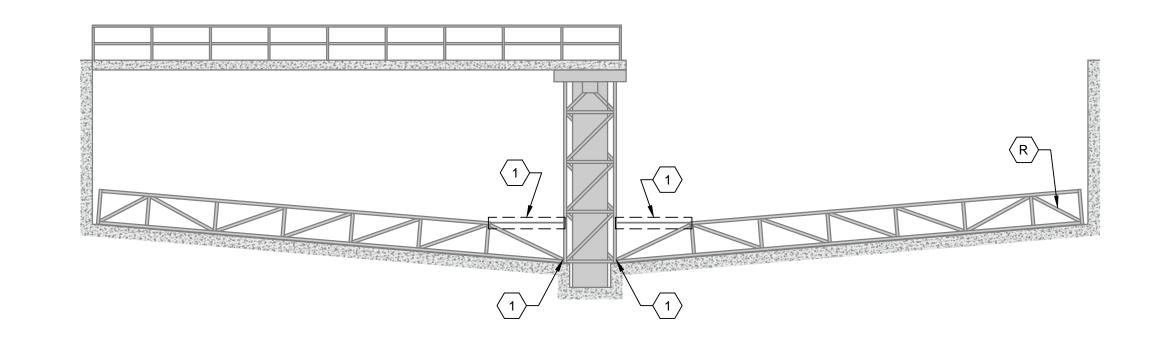










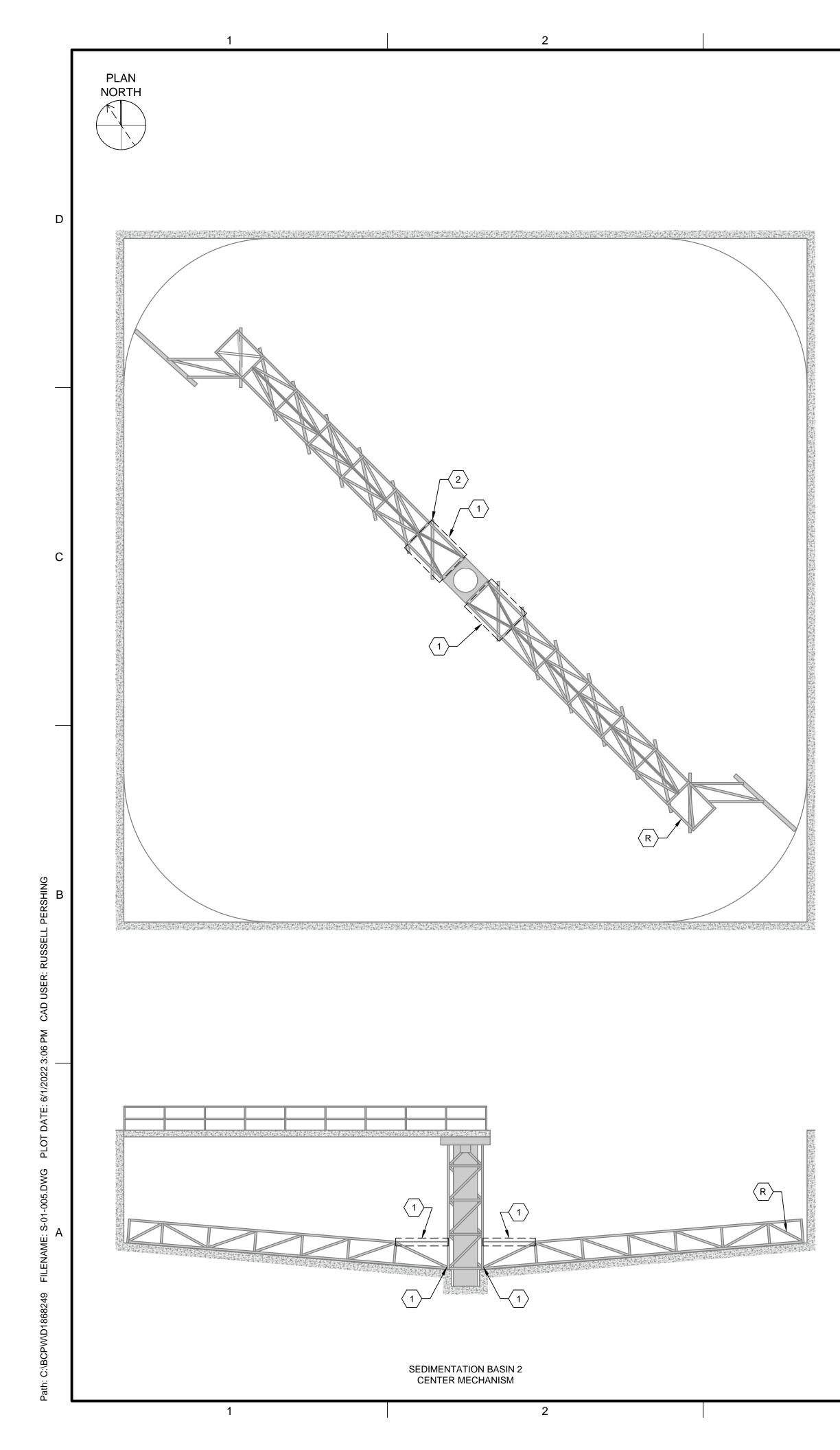


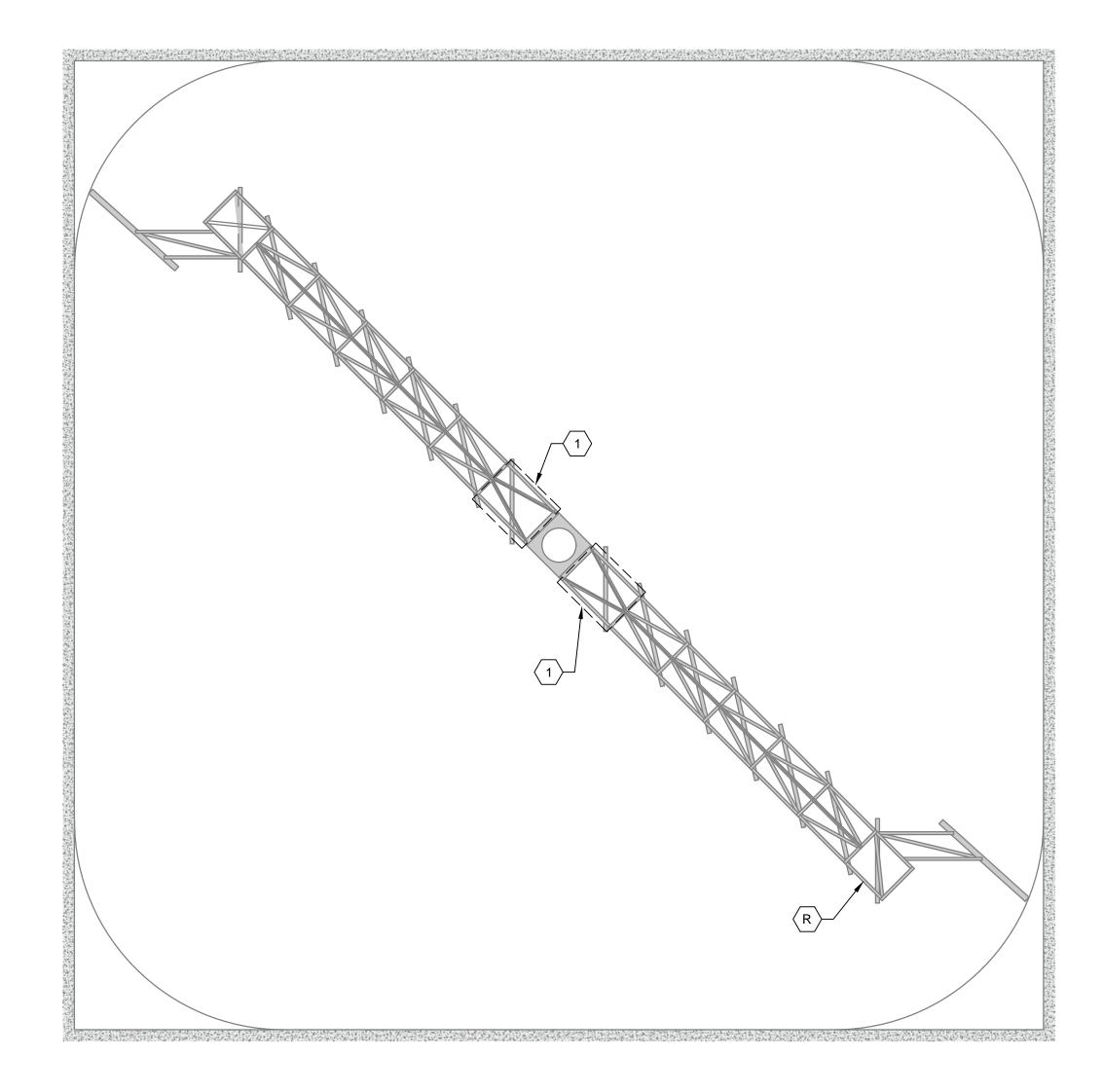
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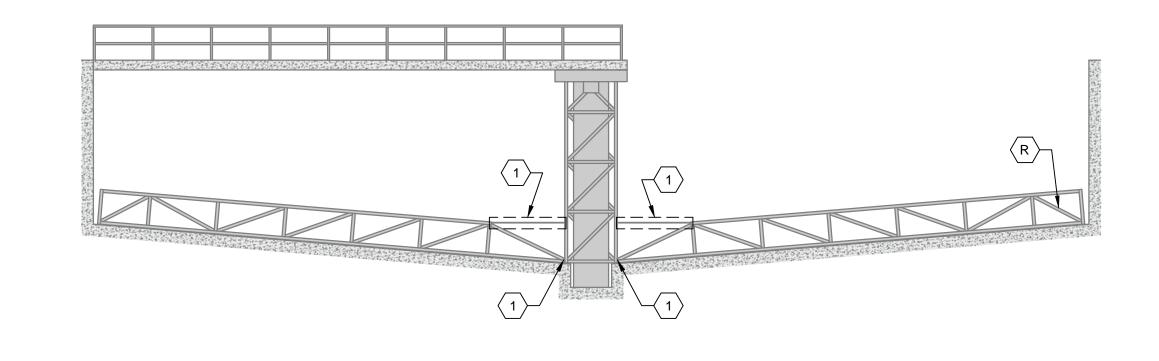
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-	 GENERAL NOTES: RECOAT ALL STRUCTURAL AREAS MEETING CRITERIA DEFINED ON DRAWING S-01-001. RE-LEVEL RAKE ARMS AND REPOSITION SQUEEGEE SUPPORT BEAMS AND SQUEEGEES IN ACCORDANCE WITH THE INSTRUCTIONS DEFINED ON DRAWING S-01-001. 	Brown AND Caldwell	
R	KEY NOTES: LOCATE RED ZIP TIE ON CROSS MEMBER BEHIND	No. 276692 No. 276692 NEIL NORRIS KUNZ 6/1/121 NEIL OF UTIT	D
1.	COUNTERWEIGHTS IN THIS LOCATION TO ORIENT DRAWING.	No. 8887408 JACOB C. HIMEBAUGH 6/2/22 BID SET	 C
		JORDAN VALLEY WATER	
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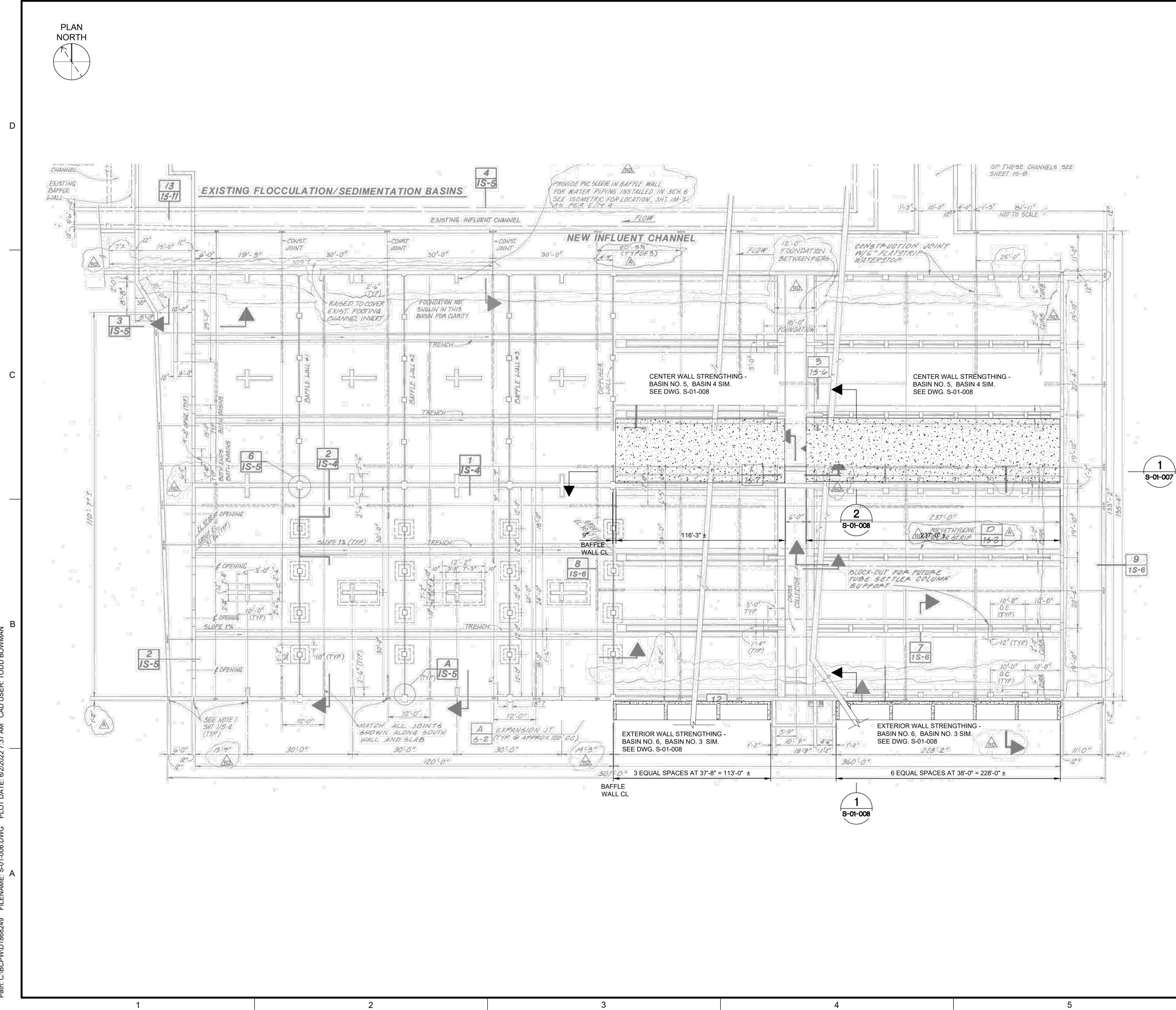




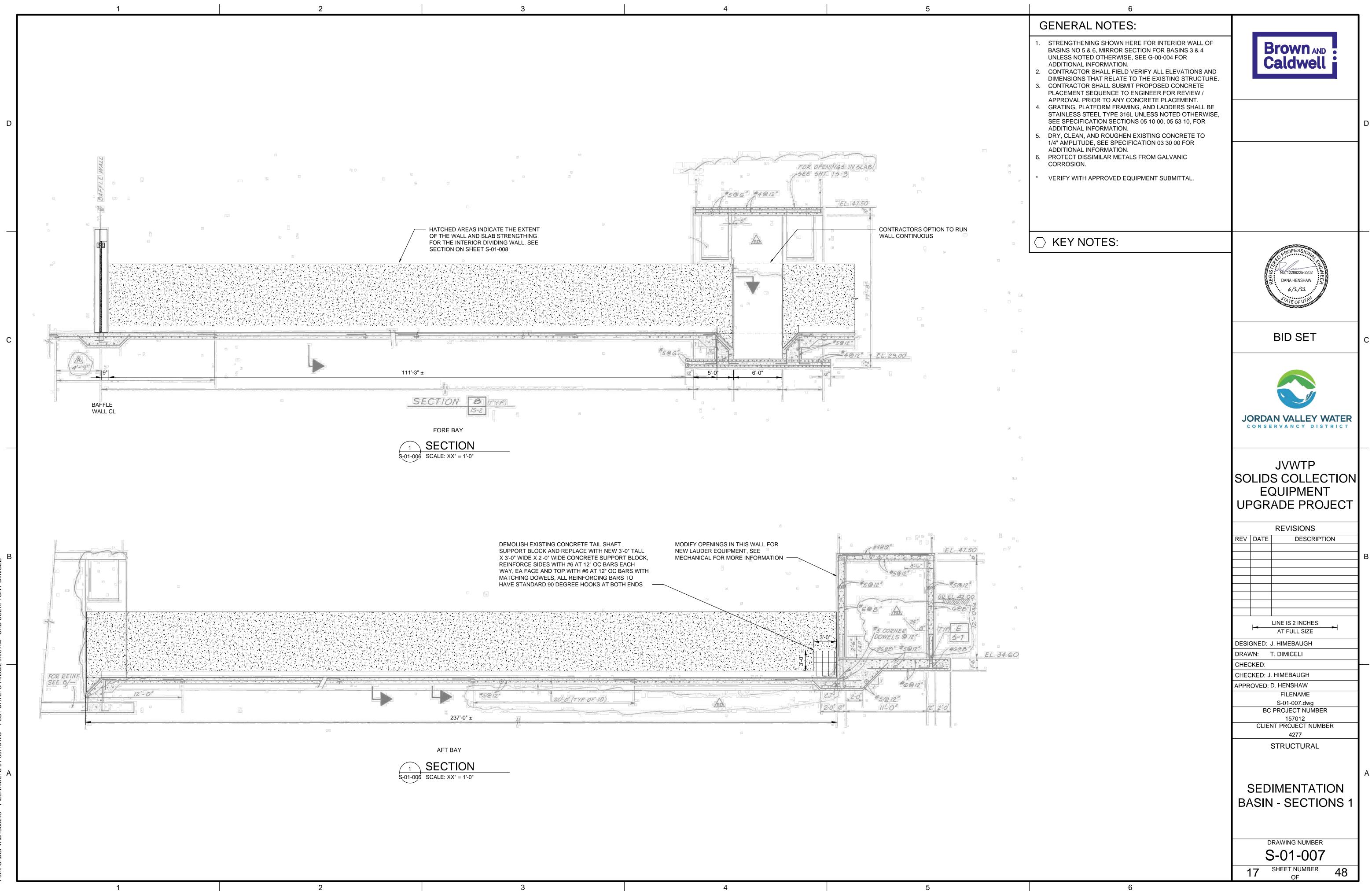


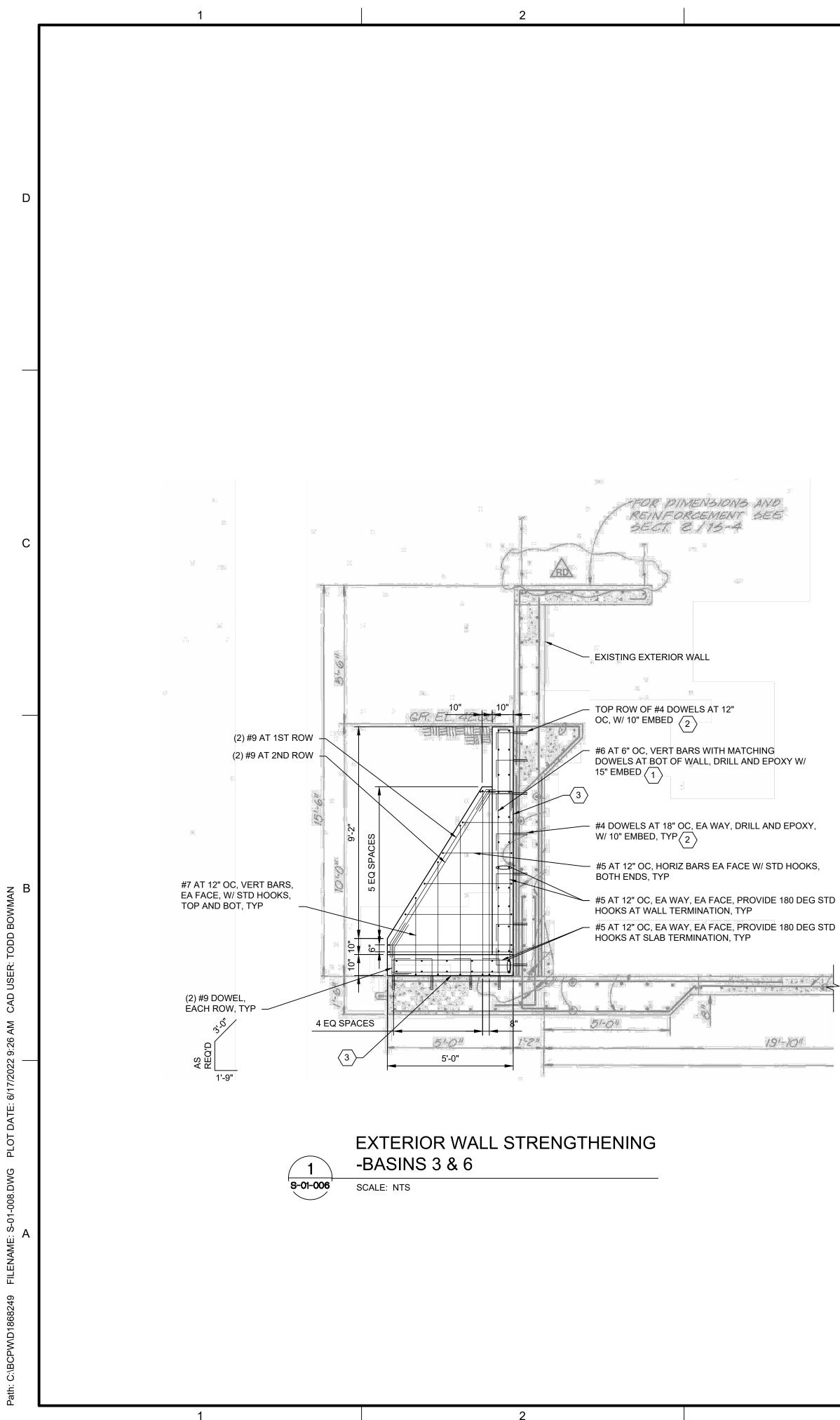
SEDIMENTATION BASIN 2 EAST MECHANISM

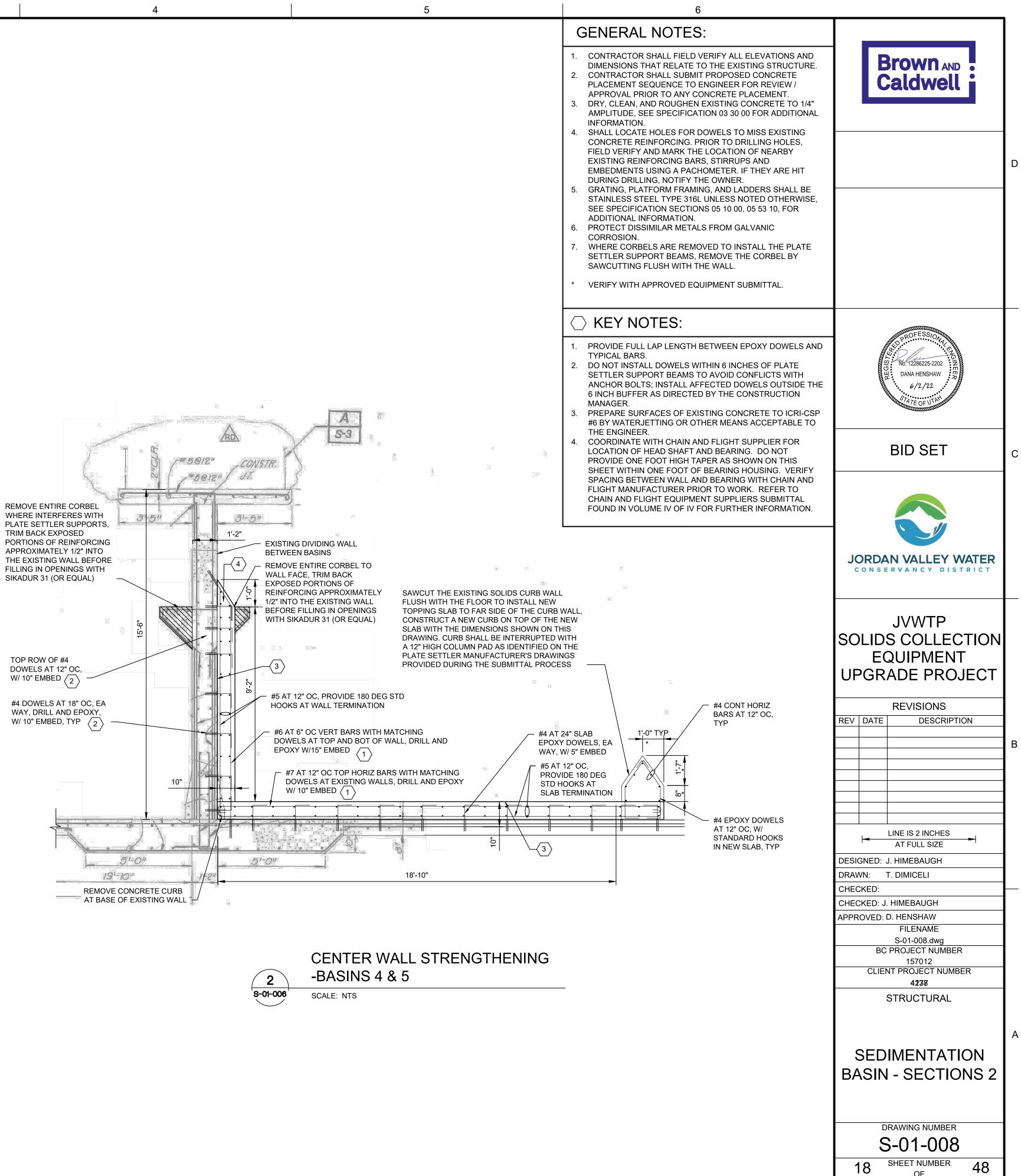
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GENERAL NOTES:		
 RECOAT ALL STRUCTURAL AREAS MEETING CRITERIA DEFINED ON DRAWING S-01-001. RE-LEVEL RAKE ARMS AND REPOSITION SQUEEGEE SUPPORT BEAMS AND SQUEEGEES IN ACCORDANCE WITH THE INSTRUCTIONS DEFINED ON DRAWING S-01-001. 	Brown AND Caldwell	
 KEY NOTES: R. LOCATE RED ZIP TIE ON CROSS MEMBER BEHIND COUNTERWEIGHTS IN THIS LOCATION TO ORIENT DRAWING. PROVIDE A UNIT PRICE FOR THE FOLLOWING WORK IN THE BID SCHEDULE AS INSTRUCTED IN SECTION 01 21 00. 	No. 275692 NEIL NORRIS KUNZ 6/1/12 HE OF UTIN	D
 REMOVE EXISTING TIE RODS. REMOVE COATING ON THE STRUCTURE AT THE TIE ROD CONNECTIONS AND THE JOINT BETWEEN THE CENTER STRUCTURAL CAGE AND RAKE ARM USING MECHANICAL OR CHEMICAL METHODS ACCEPTABLE FOR POTABLE WATER APPLICATIONS. INSPECT CONNECTIONS AND ALERT ENGINEER OF ANY EVIDENCE OF SIGNIFICANT CORROSION OR MATERIAL LOSS. CONNECTIONS FOUND TO HAVE SIGNIFICANT CORROSION OR MATERIAL LOSS SHALL BE REPAIRED IN ACCORDANCE WITH DETAIL S-1001 ON DRAWING S-01-002. RECOAT EXPOSED AREAS AS OUTLINED ON DRAWING S-1001 PRIOR TO INSTALLING NEW TIE RODS AND FASTENERS. 2. REPLACE BENT SQUEEGEE SUPPORT BEAM ON RAKE ARM IN LOCATION SHOWN. PERFORM WORK IN ACCORDANCE 	BID SET	с
WITH DETAIL S-1002 ON DRAWINGS S-01-002.	JORDAN VALLEY WATER	
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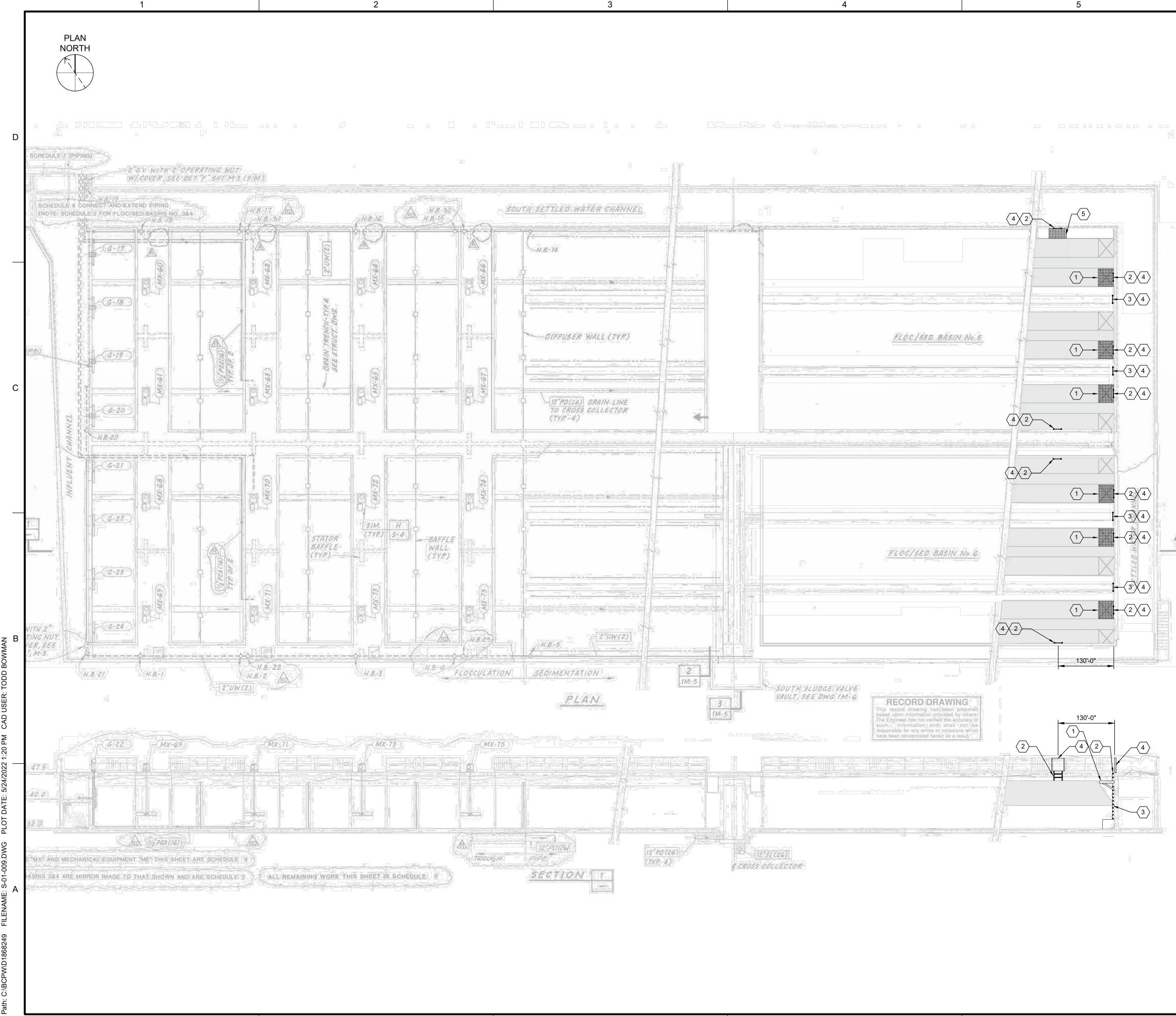
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GENERAL NOTES:		
 BASINS NO 5 & 6 SHOWN, MIRROR PLAN FOR BASINS 3 & 4 UNLESS NOTED OTHERWISE, SEE G-00-004 FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS AND DIMENSIONS THAT RELATE TO THE EXISTING STRUCTURE. CONTRACTOR SHALL SUBMIT PROPOSED CONCRETE PLACEMENT SEQUENCE TO ENGINEER FOR REVIEW / APPROVAL PRIOR TO ANY CONCRETE PLACEMENT. GRATING, PLATFORM FRAMING, AND LADDERS SHALL BE STAINLESS STEEL TYPE 316L UNLESS NOTED OTHERWISE, SEE SPECIFICATION SECTIONS 05 10 00, 05 53 10, FOR ADDITIONAL INFORMATION. DRY, CLEAN, AND ROUGHEN EXISTING CONCRETE TO 1/4" AMPLITUDE, SEE SPECIFICATION 03 30 00 FOR ADDITIONAL INFORMATION. PROTECT DISSIMILAR METALS FROM GALVANIC 	Brown AND Caldwell	D
 * VERIFY WITH APPROVED EQUIPMENT SUBMITTAL. 		
→ KEY NOTES:	OFESSION	
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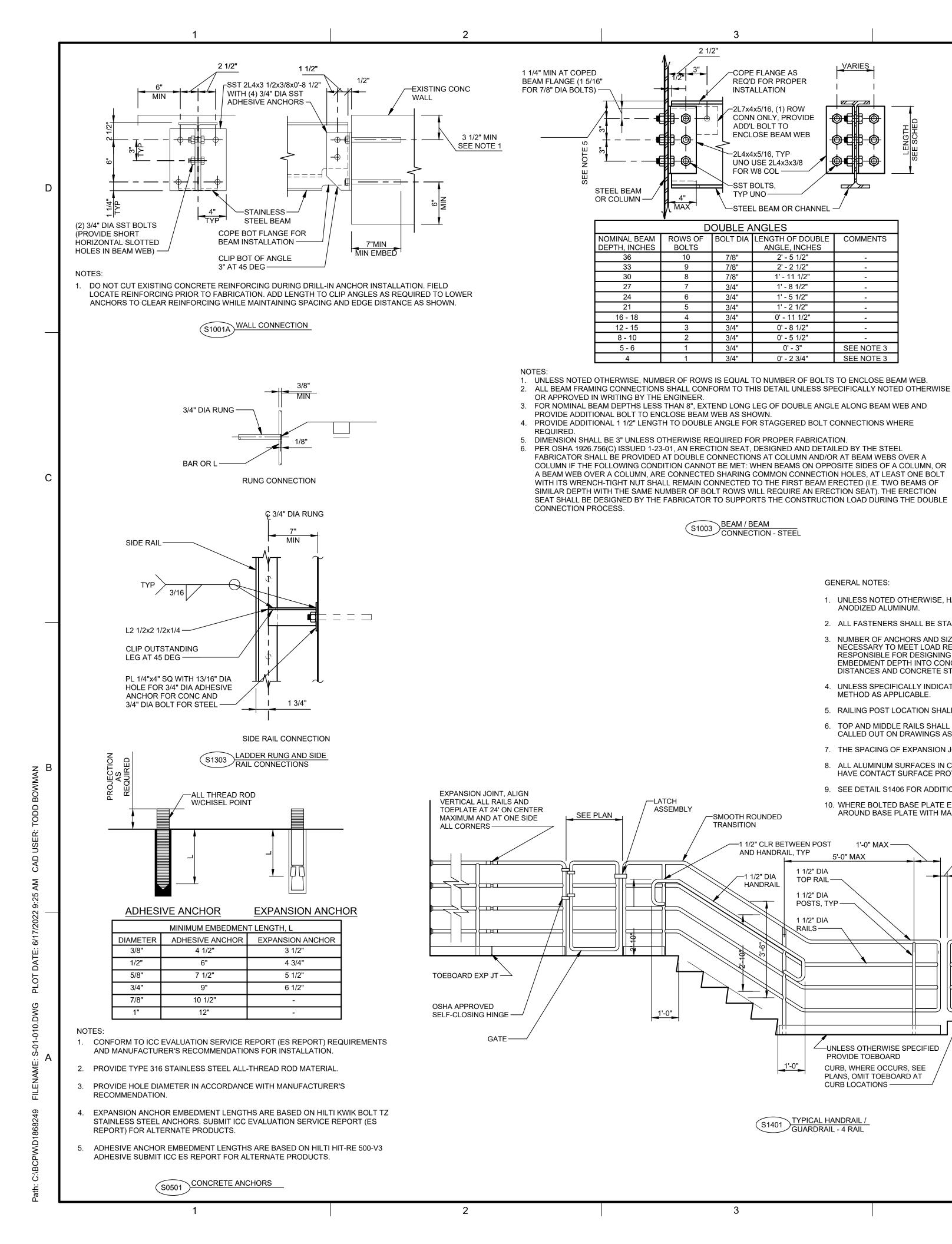


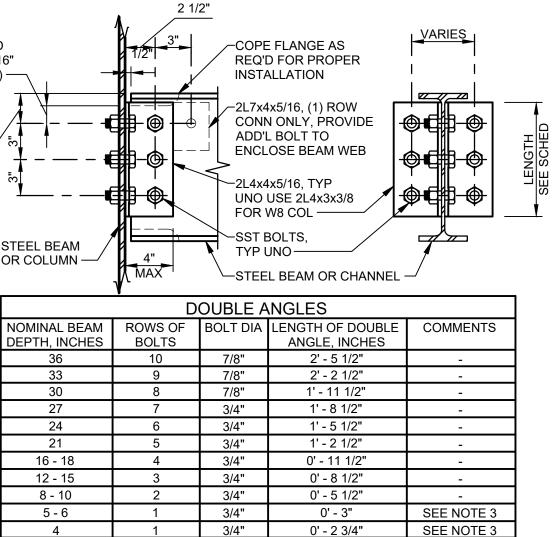






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GENERAL NOTES:		
 CHAIN AND FLIGHT EQUIPMENT NOT SHOWN FOR CLARITY. REFER TO MECHANICAL DRAWINGS FOR FURTHER INFORMATION ON PLATE SETTLERS AND CHAIN AND FLIGHT EQUIPMENT PLACEMENT. PERFORM INSTALLATION OF LADDERS AND PLATFORMS IN SEDIMENTATION BASINS 5 AND 6. LAYOUT OF SEDIMENTATION BASINS 3 AND 4 IS A MIRROR IMAGE OF SEDIMENTATION BASINS 5 AND 6 SHOWN ON THIS DRAWING. 	Brown AND Caldwell	
 ALL ANCHORS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 01 73 24 AND SECTION 05 05 20. LAYOUT OF SEDIMENTATION 3 AND 4 IS A MIRROR IMAGE OF SEDIMENTATION BASIN 5 AND 6. SUPPLY ALL COMPONENTS SHOWN ON THIS DRAWING IN BASIN 3 AND 4. 		D
1. PLATFORM SHALL BE APPROXIMATELY 4'x4' AND MADE OF 316 SST. REFER TO THE PLATE SETTLER SUBMITTALS PROVIDED BY THE MANUFACTURER TO ENSURE PLATFORM WILL NOT INTERFERE WITH THE PLATE PACKS. PLATFORM SHALL BE CENTERED OVER THE PLATE RACK ROW SHOWN ON THIS SHEET WITH TOP OF GRATING FLUSH WITH THE	PROFESSION 14 15 15 15 15 15 15 15 15 15 15	
 TOP OF THE PLATE SETTLER PLATES. SEE DETAIL S1906 ON DRAWING S-01-011 FOR MORE INFORMATION. 2. PROVIDE A 316 SST LADDER DOWN TO THE PLATFORM OR TOP OF PLATE SETTLER PLATES IN ACCORDANCE WITH DETAIL S1301 ON DRAWING S-01-010. REMOVE EXISTING LADDERS IN THESE LOCATIONS WHERE PRESENT. 3. PROVIDE A 316 SST LADDER DOWN TO THE BOTTOM OF THE BASIN AT EACH LOCATION SHOWN IN ACCORDANCE 	BID SET	с
 WITH DETAIL S1301 ON DRAWING S-01-010. REMOVE EXISTING LADDERS IN THESE LOCATIONS WHERE PRESENT. 4. MODIFY EXISTING HANDRAIL AND PROVIDE A SELF CLOSING AND LOCKING GATE OF SAME MATERIAL AND TYPE. REFER TO DETAIL S1401 ON DRAWING S-01-010 FOR FURTHER INFORMATION. 5. PLATFORM SHALL BE APPROXIMATELY 4' WIDE AND 		
EXTEND TO THE EDGE OF THE PLATE PACK. REFER TO THE PLATE SETTLER SUBMITTALS PROVIDED BY THE MANUFACTURER TO ENSURE PLATFORM WILL NOT INTERFERE WITH THE PLATE PACKS. TOP OF PLATFORM GRATING SHALL BE FLUSH WITH THE TOP OF THE PLATE SETTLER PLATES. SEE DETAIL S1906 ON DRAWING S-01-011	JORDAN VALLEY WATER CONSERVANCY DISTRICT	
FOR MORE INFORMATION.	JVWTP SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT	
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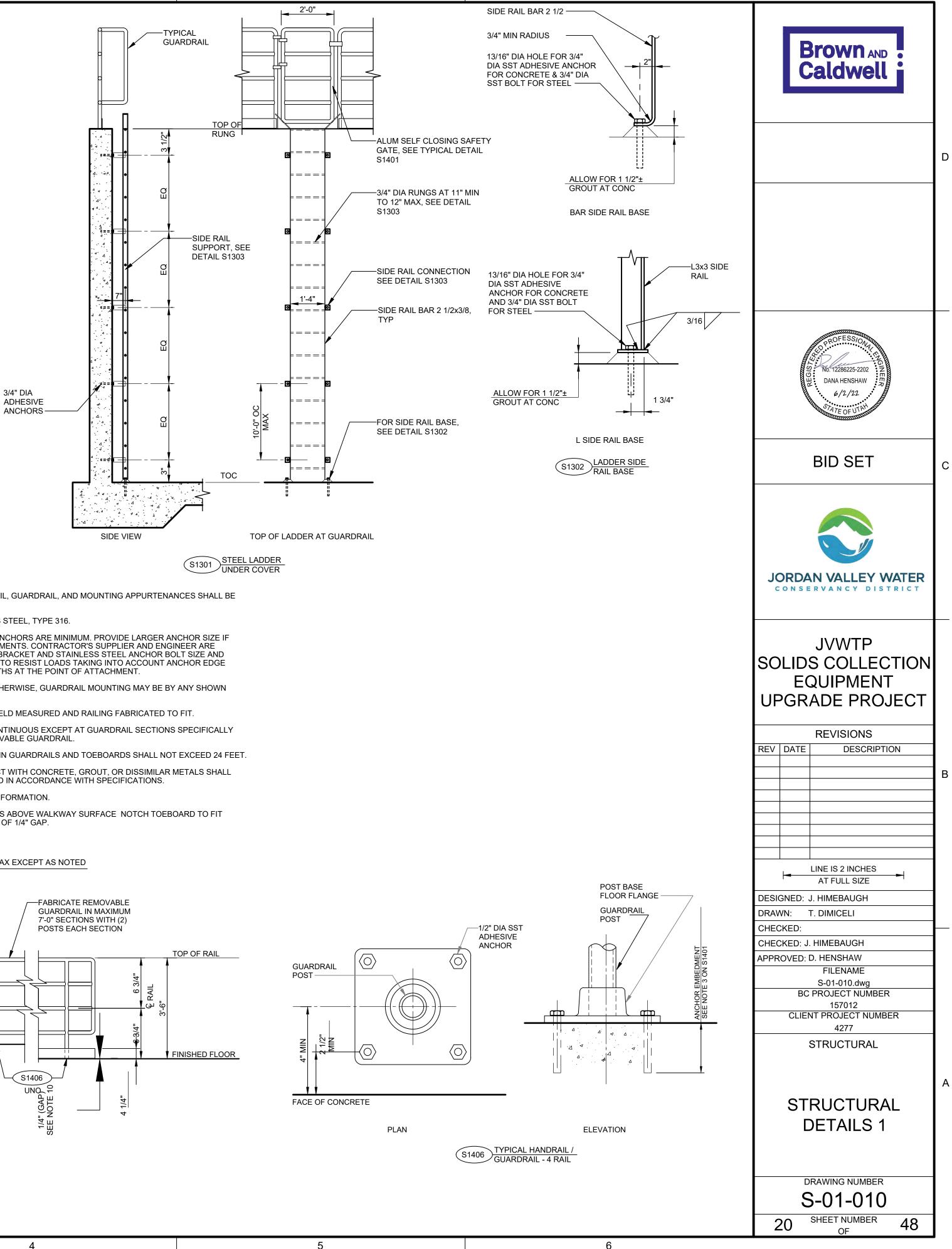




S1003 BEAM / BEAM CONNECTION - STEEL

-SMOOTH ROUNDED

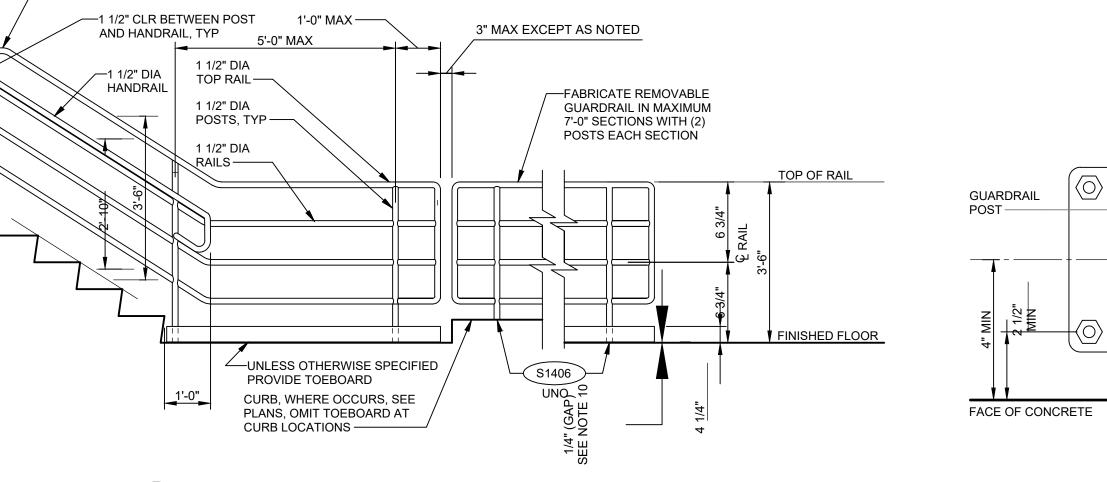
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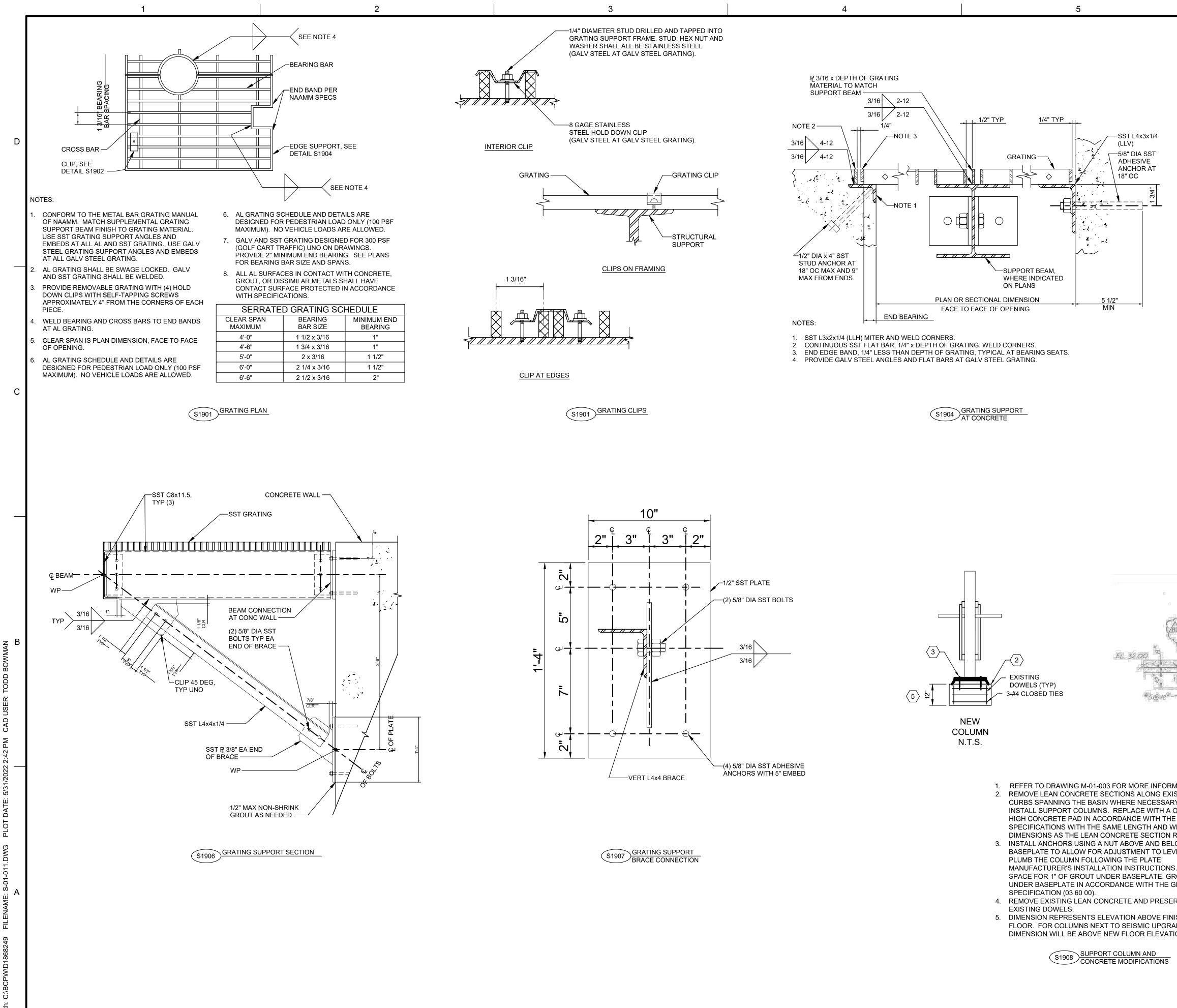
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GENERAL NOTES:

- 1. UNLESS NOTED OTHERWISE, HANDRAIL, GUARDRAIL, AND MOUNTING APPURTENANCES SHALL BE ANODIZED ALUMINUM.
- 2. ALL FASTENERS SHALL BE STAINLESS STEEL, TYPE 316.
- 3. NUMBER OF ANCHORS AND SIZE OF ANCHORS ARE MINIMUM. PROVIDE LARGER ANCHOR SIZE IF NECESSARY TO MEET LOAD REQUIREMENTS. CONTRACTOR'S SUPPLIER AND ENGINEER ARE RESPONSIBLE FOR DESIGNING BASE BRACKET AND STAINLESS STEEL ANCHOR BOLT SIZE AND EMBEDMENT DEPTH INTO CONCRETE TO RESIST LOADS TAKING INTO ACCOUNT ANCHOR EDGE DISTANCES AND CONCRETE STRENGTHS AT THE POINT OF ATTACHMENT.
- 4. UNLESS SPECIFICALLY INDICATED OTHERWISE, GUARDRAIL MOUNTING MAY BE BY ANY SHOWN METHOD AS APPLICABLE.
- 5. RAILING POST LOCATION SHALL BE FIELD MEASURED AND RAILING FABRICATED TO FIT.
- 6. TOP AND MIDDLE RAILS SHALL BE CONTINUOUS EXCEPT AT GUARDRAIL SECTIONS SPECIFICALLY CALLED OUT ON DRAWINGS AS REMOVABLE GUARDRAIL.
- 7. THE SPACING OF EXPANSION JOINTS IN GUARDRAILS AND TOEBOARDS SHALL NOT EXCEED 24 FEET.
- 8. ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE, GROUT, OR DISSIMILAR METALS SHALL
- HAVE CONTACT SURFACE PROTECTED IN ACCORDANCE WITH SPECIFICATIONS.
- 9. SEE DETAIL S1406 FOR ADDITIONAL INFORMATION.
- 10. WHERE BOLTED BASE PLATE EXTENDS ABOVE WALKWAY SURFACE NOTCH TOEBOARD TO FIT AROUND BASE PLATE WITH MAXIMUM OF 1/4" GAP.



TYPICAL HANDRAIL / (S1401) GUARDRAIL - 4 RAIL



CURBS SPANNING THE BASIN WHERE NECESSARY INSTALL SUPPORT COLUMNS. REPLACE WITH A O HIGH CONCRETE PAD IN ACCORDANCE WITH THE SPECIFICATIONS WITH THE SAME LENGTH AND WI

- 3. INSTALL ANCHORS USING A NUT ABOVE AND BEL BASEPLATE TO ALLOW FOR ADJUSTMENT TO LEVI PLUMB THE COLUMN FOLLOWING THE PLATE MANUFACTURER'S INSTALLATION INSTRUCTIONS SPACE FOR 1" OF GROUT UNDER BASEPLATE. GR UNDER BASEPLATE IN ACCORDANCE WITH THE GI
- 4. REMOVE EXISTING LEAN CONCRETE AND PRESER
- 5. DIMENSION REPRESENTS ELEVATION ABOVE FINIS FLOOR. FOR COLUMNS NEXT TO SEISMIC UPGRAI DIMENSION WILL BE ABOVE NEW FLOOR ELEVATION

S1908 SUPPORT COLUMN AND CONCRETE MODIFICATIONS

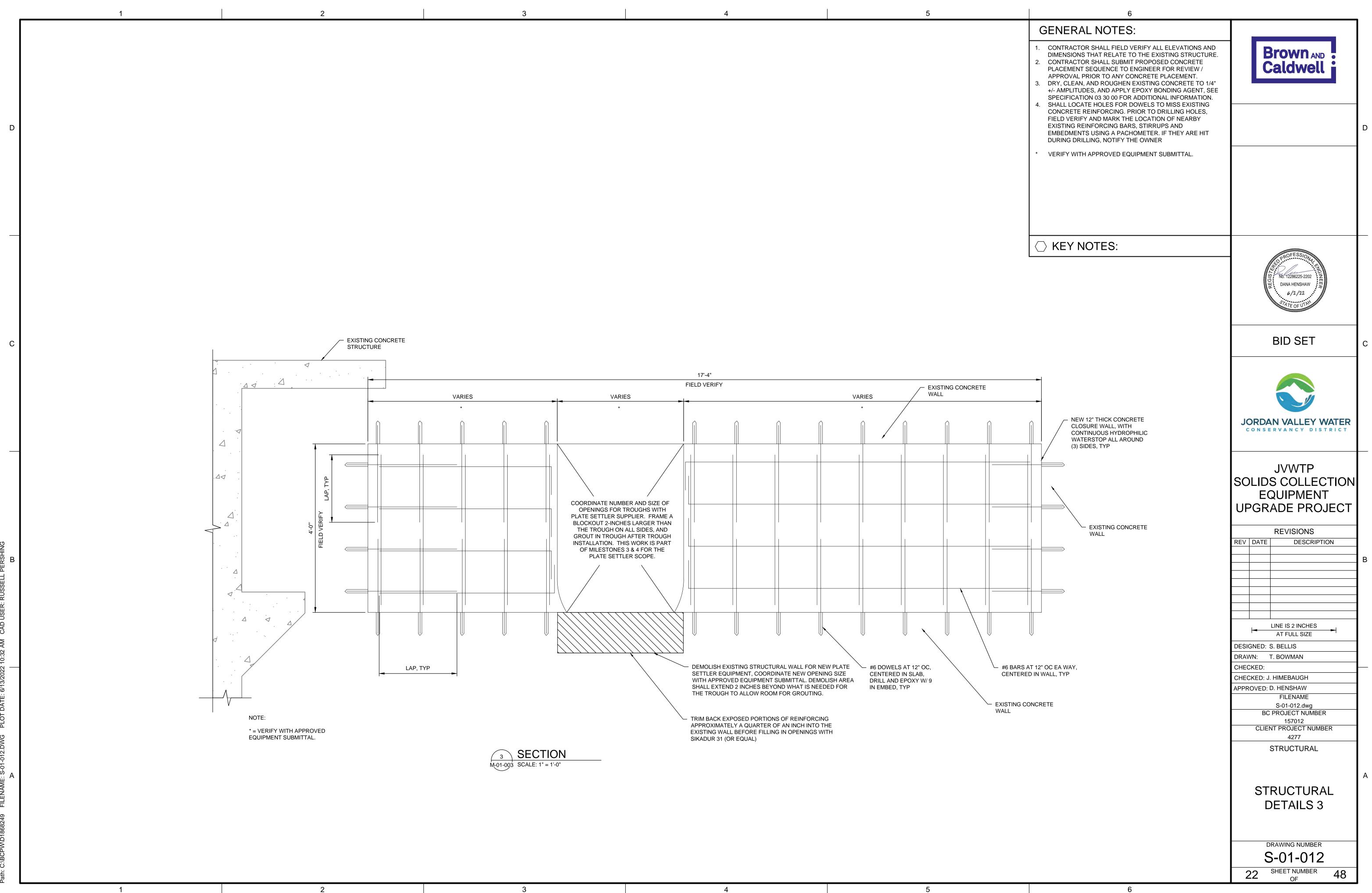
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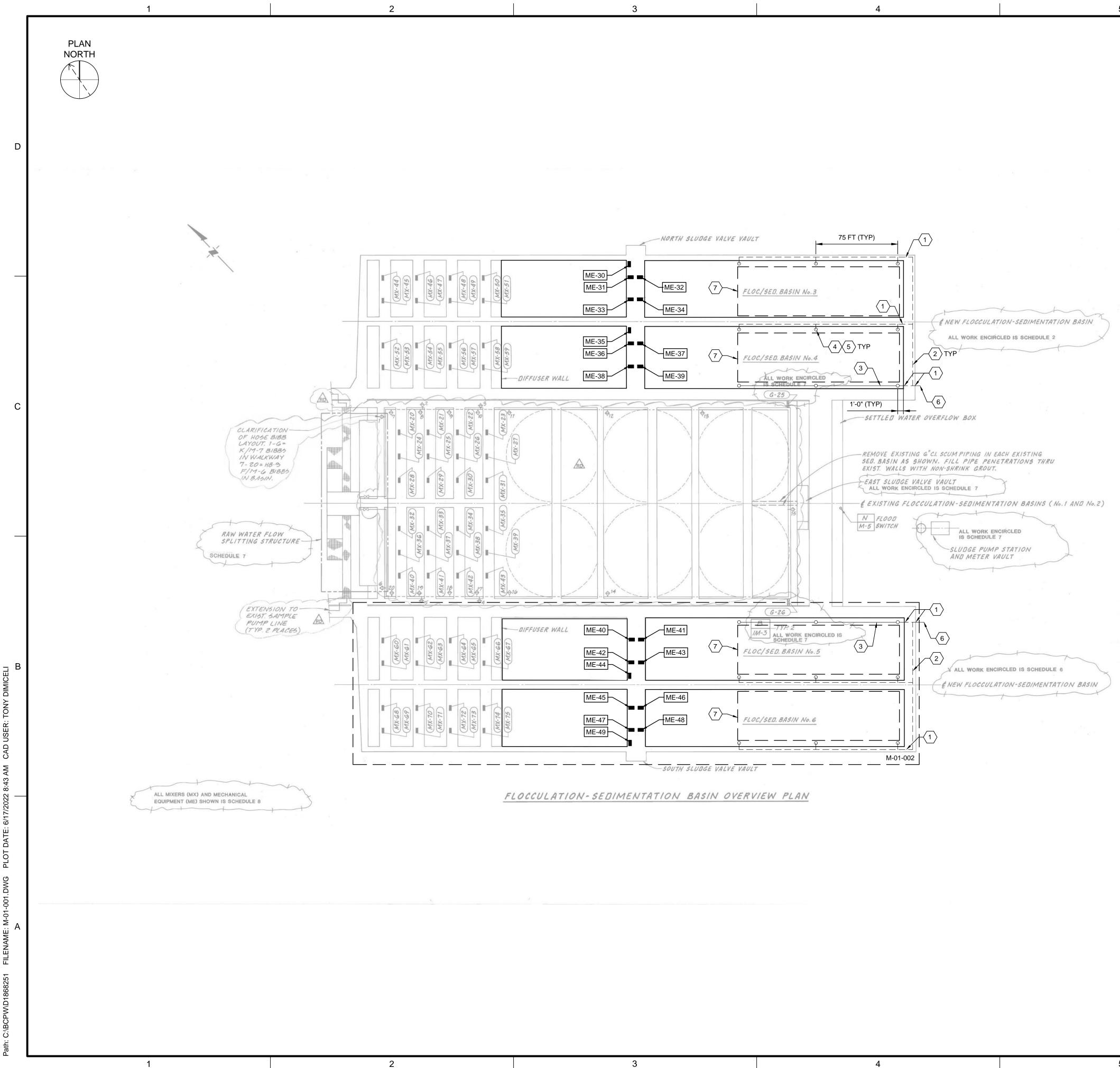
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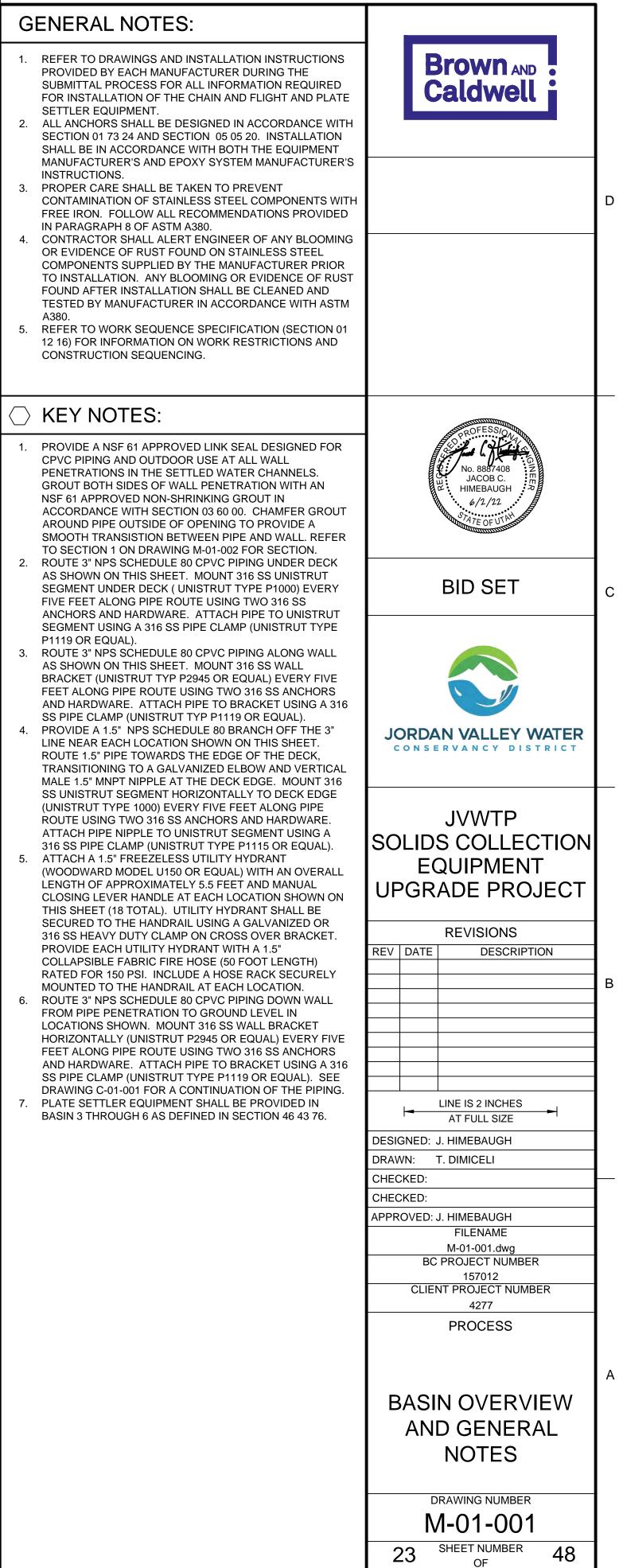
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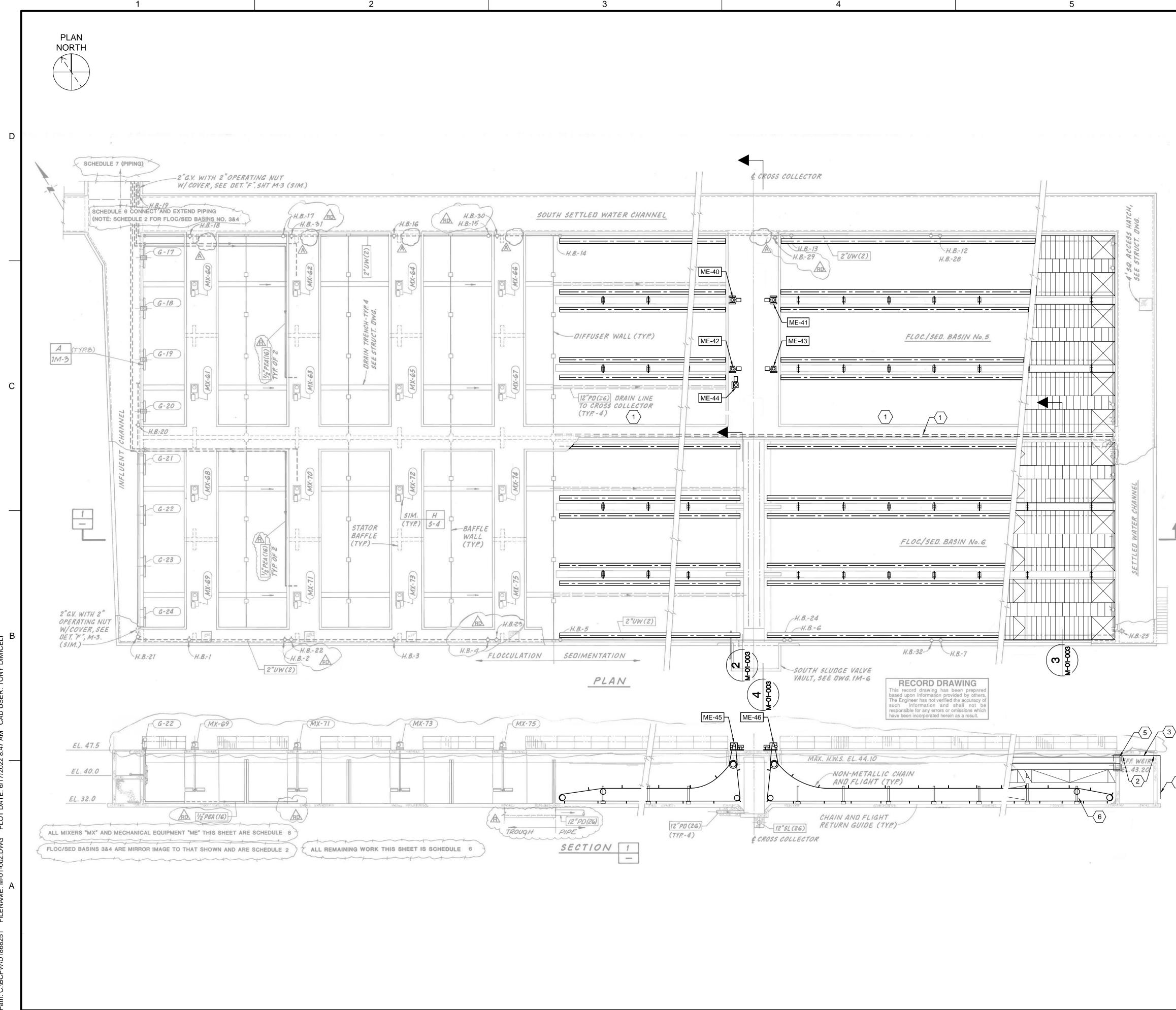
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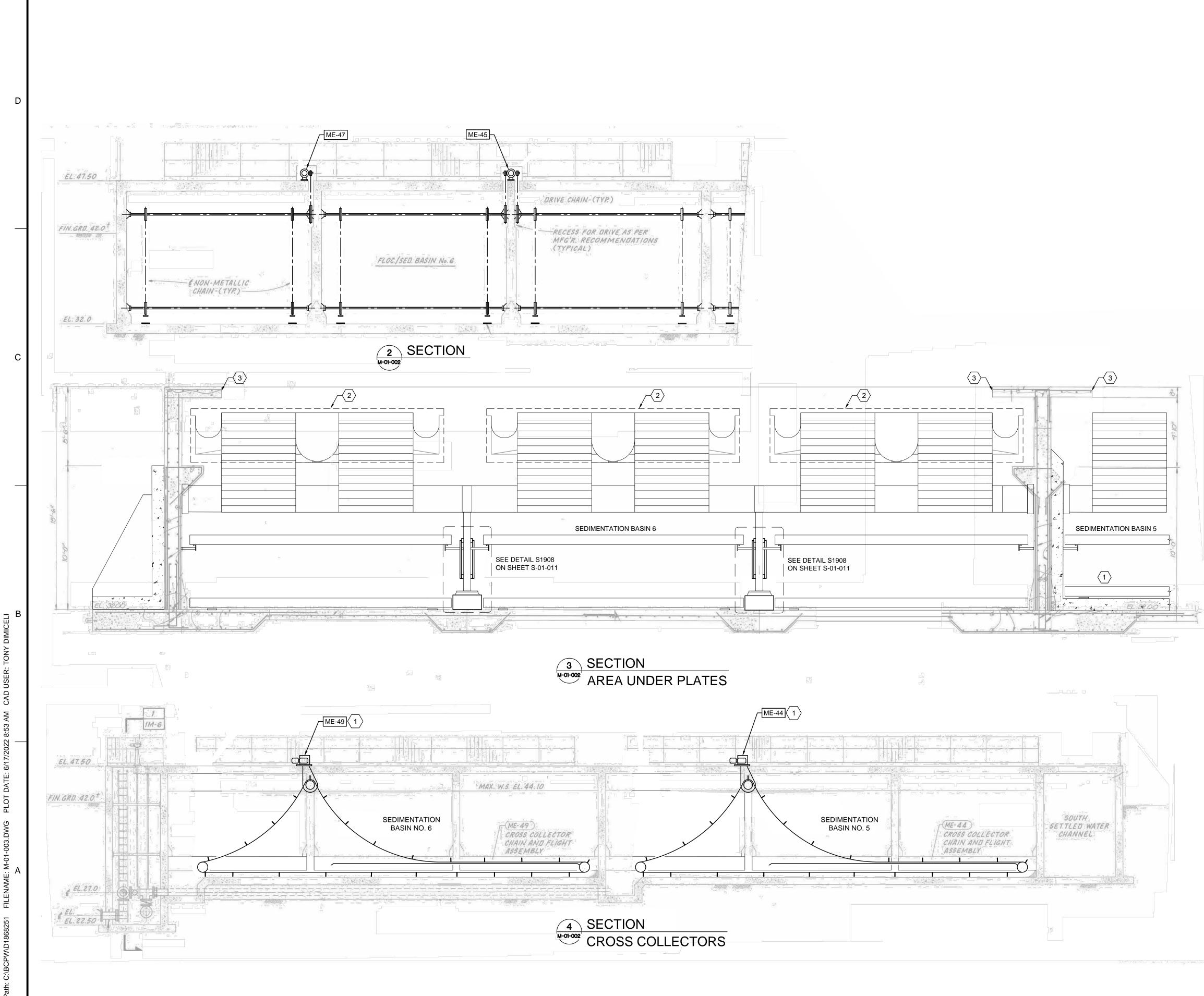
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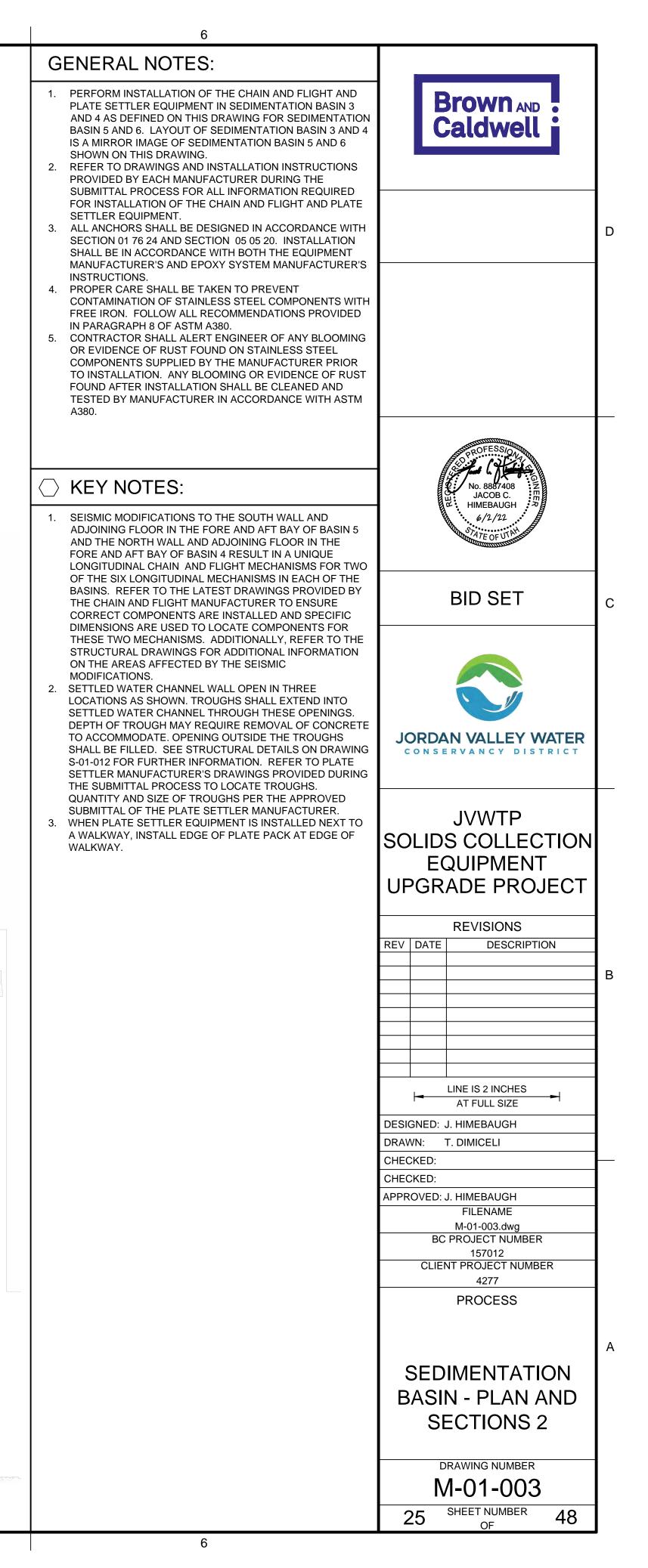
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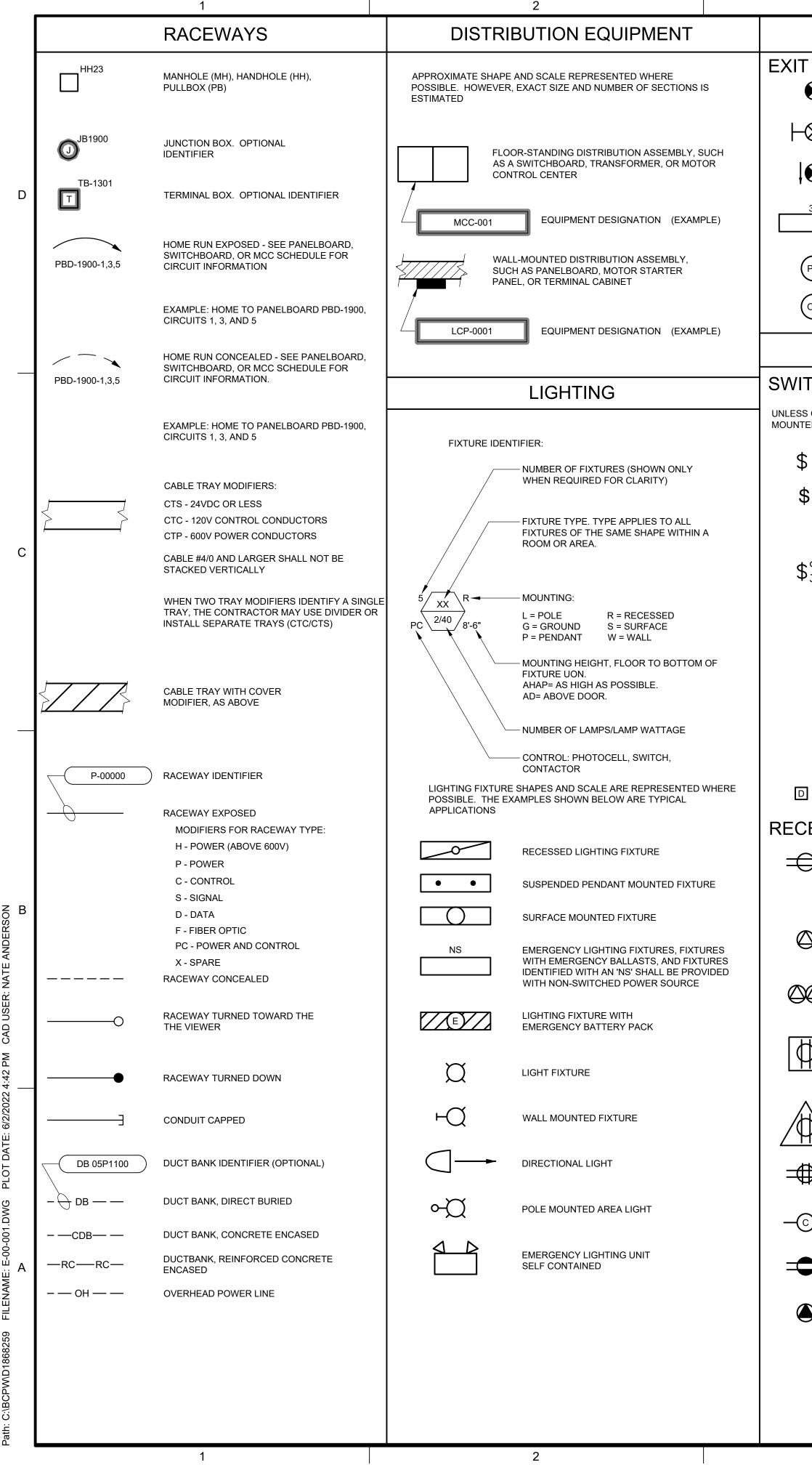
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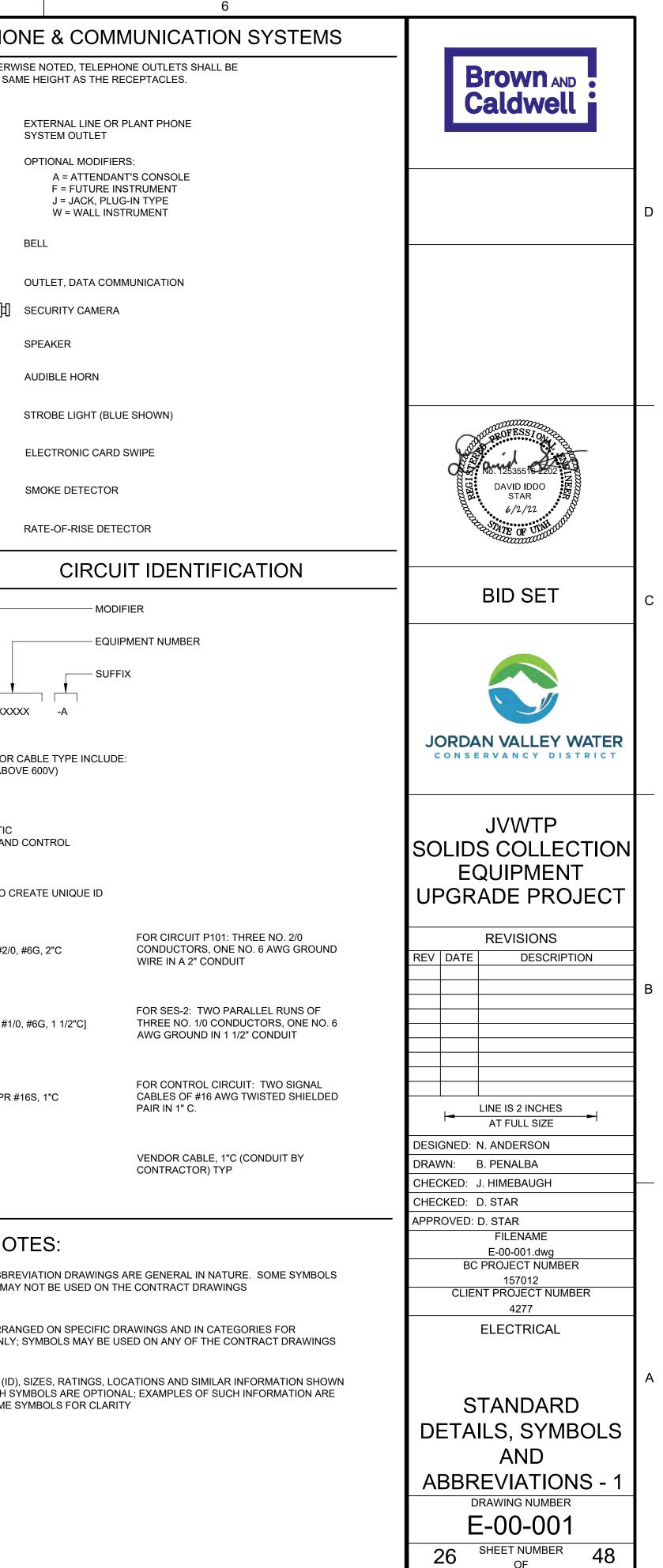
GENERAL NOTES: 1. PERFORM INSTALLATION OF THE CHAIN AND FLIGHT AND **Brown** AND PLATE SETTLER EQUIPMENT IN SEDIMENTATION BASIN 3 AND 4 AS DEFINED ON THIS DRAWING FOR SEDIMENTATION Caldwell BASIN 5 AND 6. LAYOUT OF SEDIMENTATION BASINS 3 AND 4 IS A MIRROR IMAGE OF SEDIMENTATION BASINS 5 AND 6 SHOWN ON THIS DRAWING. 2. REFER TO DRAWINGS AND INSTALLATION INSTRUCTIONS PROVIDED BY EACH MANUFACTURER DURING THE SUBMITTAL PROCESS FOR ALL INFORMATION REQUIRED FOR INSTALLATION OF THE CHAIN AND FLIGHT AND PLATE SETTLER EQUIPMENT. 3. ALL ANCHORS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 01 73 24 AND SECTION 05 05 20. INSTALLATION SHALL BE IN ACCORDANCE WITH BOTH THE EQUIPMENT MANUFACTURER'S AND EPOXY SYSTEM MANUFACTURER'S INSTRUCTIONS. 4. PROPER CARE SHALL BE TAKEN TO PREVENT CONTAMINATION OF STAINLESS STEEL COMPONENTS WITH FREE IRON. FOLLOW ALL RECOMMENDATIONS PROVIDED IN PARAGRAPH 8 OF ASTM A380. 5. CONTRACTOR SHALL ALERT ENGINEER OF ANY BLOOMING OR EVIDENCE OF RUST FOUND ON STAINLESS STEEL COMPONENTS SUPPLIED BY THE MANUFACTURER PRIOR TO INSTALLATION. ANY BLOOMING OR EVIDENCE OF RUST FOUND AFTER INSTALLATION SHALL BE CLEANED AND TESTED BY MANUFACTURER IN ACCORDANCE WITH ASTM A380. 6. WHEN PLATE SETTLER EQUIPMENT IS INSTALLED NEXT TO A WALKWAY, INSTALL EDGE OF PLATE PACK AT EDGE OF WALKWAY. **KEY NOTES:** No. 8887408 JACOB C. HIMEBAUGH 6/2/22 SEISMIC MODIFICATIONS TO THE SOUTH WALL AND ADJOINING FLOOR IN THE FORE AND AFT BAY OF BASIN 5 AND THE NORTH WALL AND ADJOINING FLOOR IN THE FORE AND AFT BAY OF BASIN 4 RESULT IN A UNIQUE LONGITUDINAL CHAIN AND FLIGHT MECHANISMS FOR TWO OF THE SIX LONGITUDINAL MECHANISMS IN EACH **BID SET** SET OF BASINS. REFER TO THE LATEST SUBMITTAL DRAWINGS PROVIDED BY THE CHAIN AND FLIGHT MANUFACTURER TO ENSURE CORRECT COMPONENTS ARE INSTALLED AND SPECIFIC DIMENSIONS ARE USED TO LOCATE COMPONENTS FOR THESE TWO MECHANISMS. ADDITIONALLY, REFER TO THE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON THE AREAS AFFECTED BY THE SEISMIC MODIFICATIONS. 2. PROVIDE A NSF 61 APPROVED LINK SEAL DESIGNED FOR CPVC PIPING AND OUTDOOR USE AT ALL WALL PENETRATIONS IN THE SETTLED WATER CHANNELS. JORDAN VALLEY WATER GROUT BOTH SIDES OF WALL PENETRATION WITH AN CONSERVANCY DISTRICT NSF 61 APPROVED NON-SHRINKING GROUT IN ACCORDANCE WITH SECTION 03 60 00. CHAMFER GROUT AROUND PIPE OUTSIDE OF OPENING TO PROVIDE A SMOOTH TRANSITION BETWEEN PIPE AND WALL. REFER TO DETAIL 1 ON DRAWING M-01-002 FOR SECTION. JVWTP ROUTE 3" NPS SCHEDULE 80 CPVC PIPING UNDER DECK AS SHOWN ON THIS SHEET. MOUNT 316 SS UNISTRUT SOLIDS COLLECTION SEGMENT UNDER DECK (UNISTRUT TYPE P1000) EVERY FIVE FEET ALONG PIPE ROUTE USING TWO 316 SS EQUIPMENT ANCHORS AND HARDWARE. ATTACH PIPE TO UNISTRUT SEGMENT USING A 316 SS PIPE CLAMP (UNISTRUT TYPE **UPGRADE PROJECT** P1119 OR EQUAL). ROUTE 3" NPS SCHEDULE 80 CPVC PIPING DOWN WALL FROM PIPE PENETRATION TO GROUND LEVEL IN REVISIONS LOCATIONS SHOWN. MOUNT 316 SS WALL BRACKET HORIZONTALLY (UNISTRUT P2945 OR EQUAL) EVERY FIVE DESCRIPTION REV DATE FEET ALONG PIPE ROUTE USING TWO 316 SS ANCHORS AND HARDWARE. ATTACH PIPE TO BRACKET USING A 316 SS PIPE CLAMP (UNISTRUT TYPE P1119 OR EQUAL). SEE DRAWING C-01-001 FOR A CONTINUATION OF THE PIPING. TROUGHS SHALL CONNECT TO THE SETTLED WATER CHANNEL BY CASTING THEM INTO THE WALL. DEPTH OF TROUGH MAY REQUIRE REMOVAL OF CONCRETE TO ACCOMMODATE. SEE STRUCTURAL DETAILS ON DRAWING S-01-012 FOR FURTHER INFORMATION. REFER TO PLATE SETTLER MANUFACTURER'S DRAWINGS PROVIDED DURING THE SUBMITTAL PROCESS TO LOCATE TROUGHS. LINE IS 2 INCHES 6. DESIGN THE FINAL SUPPORT BEFORE THE END WALL TO AT FULL SIZE CARRY ALL LIVE AND DEAD LOADS IMPOSED BY THE CHAIN AND FLIGHT RETURN SHAFT. DESIGNED: J. HIMEBAUGH DRAWN: T. DIMICELI CHECKED: CHECKED: APPROVED: J. HIMEBAUGH FILENAME M-01-002.dwg BC PROJECT NUMBER 157012 CLIENT PROJECT NUMBER 4277 PROCESS SEDIMENTATION **BASIN - PLAN AND SECTIONS 1** DRAWING NUMBER M-01-002 SHEET NUMBER 48 24 OF





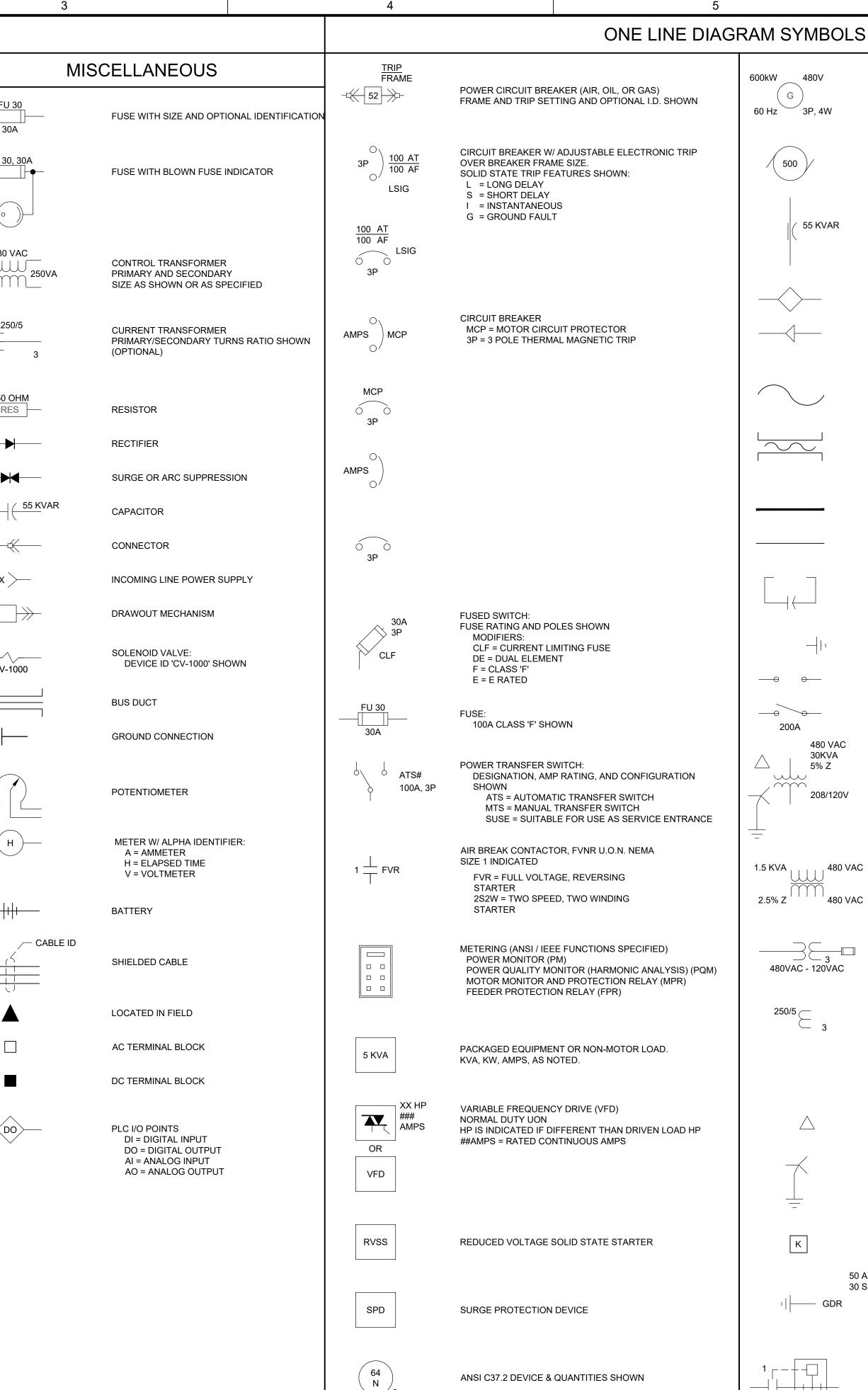


3	4		5
LIGHTING CONTINUED		GROUNDING	TELEPHO
LIGHTS:			UNLESS OTHER MOUNTED AT S
SURFACE ON CEILING	$\textcircled{\bullet}$	GROUND ROD	
WALL MOUNTED	۲	GROUND ROD WITH GROUND WELL	A
WITH DIRECTIONAL ARROWS		GROUND CONNECTION, COMPRESSION TYPE, EXOTHERMIC. SEE SPECIFIC	
3a CIRCUIT IDENTIFIER: WHEN SHOWN ADJACENT TO FIXTURE IDENTIFIES CIRCUIT NUMBER AND SWITCH.		GROUNDING CONDUCTOR	
PHOTO CELL		GROUND CONNECTION	D
OS OCCUPANCY SENSOR	↓	GROUND CONNECTION TO STRUCTURAL REINFORCEMENT	
WIRING DEVICES	\odot	LIGHTNING ROD/AIR TERMINAL	
TCHES:			the Broker
OTHERWISE NOTED, ALL SWITCHES ARE WALL ED	MO	TORS AND EQUIPMENT	CS
TOGGLE SWITCH, SINGLE POLE	\boxtimes	MOTOR STARTER, INDIVIDUAL. NOT LOCATED IN AN MCC OR SIMILAR GROUP ASSEMBLY	SD
GANGED SWITCHES IN COMMON BOX WITH COMMON WALL PLATE	$\boxtimes^{\!$	COMBINATION MOTOR STARTER. NOT LOCATED IN AN MCC OR SIMILAR GROUP ASSEMBLY	R
SUPERSCRIPT INDICATES CIRCUIT CONTROLLED: a, b, c, ETC. MAY BE COMBINED WITH CIRCUIT NUMBER. a EXAMPLE: 1a, 4b, ETC 3,		DISCONNECT SWITCH, NON-FUSED EXAMPLE: 60 AMP	
SUBSCRIPT MODIFIER INDICATES: 2 = DOUBLE POLE 3 = THREE WAY	F	DISCONNECT SWITCH, FUSED EXAMPLE: 100 AMP, 2P, 80 AMP FUSES	
4 = FOUR WAY k = KEY OPERATED MC = MOMENTARY CONTACT, THREE		MOTOR	X XXXX <u>NOTE:</u>
POSITION MS = MANUAL (MOTOR) STARTER OR SWITCH WITH OVERLOADS R = RHEOSTAT (DIMMER, SPEED CONTROL) OS = OCCUPANCY SWITCH	SV	SOLENOID VALVE	MODIFIERS FOI H - POWER (AB P - POWER C - CONTROL S - SIGNAL D - DATA F - FIBER OPTIC
DIMMER	Н	HEATER	PC - POWER AN X - SPARE
EPTACLES:		THERMOSTAT	SUFFIX: A - LETTER TO
WP DUPLEX RECEPTACLE RECEPTACLE MODIFIERS: WP = WEATHER PROOF	(VH)	WATER HEATER	EXAMPLE 1: P101-1: 3 #2
GFI = GROUND FAULT CIRCUIT INTERRUPTER HAZARDOUS AREA; EXPLOSION PROOF	\bigotimes	FIELD INSTRUMENT	EXAMPLE 2: SES-2: 2[3 #
EXPLOSION PROOF, CLASS 1, DEAD FRONT, 45° ANGLE, TWO GANG	•	LOCAL CONTROL STATION	EXAMPLE 3: C111: 2-1 PF
RECESSED FLOOR RECEPTACLE - ANY RECEPTACLE INSIDE A SQUARE		CP-0001 EQUIPMENT DESIGNATION	EXAMPLE 4: VND, 1"C
SURFACE FLOOR RECEPTACLE - ANY RECEPTACLE INSIDE A TRIANGLE		CONTROL PANEL, VFD, RVSS, APPROXIMATE SHAPE AND SCALE.	GENERAL NO
GANGED RECEPTACLESIN COMMON BOX, WITH COMMON WALL PLATE			1. SYMBOLS AND ABB SHOWN HEREON M
RECEPTACLE, CLOCK HANGER			2. SYMBOLS ARE ARR CONVENIENCE ONL
RECEPTACLE, DUPLEX ON EMERGENCY	A	REA IDENTIFICATION	3. IDENTIFICATIONS (I ASSOCIATED WITH
EQUIPMENT OR SPECIAL PURPOSE CONNECTION	C1-D1	HAZARDOUS AREA CLASSIFICATION	SHOWN WITH SOME
	C1-D2	HAZARDOUS AREA CLASSIFICATION	



GENERAL INPUT SWITCHES	1	2 CONTROL DIAGRAM SYMBOLS
OCHEVICTORS CONNECTED NORMALLY NORMALLY NITUATING CONDUCTORS CONNECTED NORMALLY NORMALLY NORMALLY CONDUCTORS CONNECTED NORMALLY NORMALLY NORMALLY CONDUCTORS CONNECTED NORMALLY NORMALLY NORMALLY CONTACTORS CONNECTED NORMALLY NORMALLY NORMALLY CONTACTORS CONNECTED NORMALLY NORMALLY NORMALLY CONTACTORS NORMALLY NORMALLY NORMALLY NORMALLY NORMALLY NORMALLY	GENERAL	
CONDUCTORS NOT CONNECTED CONTACT NOT NOT NOT NOT NOT CONTACT CONTACT NOT NOT NOT NOT NOT NOT NOT NOT CONTACT CONTACT NOT NOT NOT NOT NOT NOT NOT NOT NOT NO		NORMALLY NORMALLY INITIATING
INDICATING LIGHTSINDICATING LIGHTS		
Implicit connection Implicit connection Implicit connent connection Implicit conne	EXISTING EQUIPMENT (SCREENED)	
PUSH TO TEST. TEST VOLTAGE Image: Stream of the		
$\frac{A + AMBER}{B + BUE}$ $\frac{B + BUE}{C + ORECH}$ $B $	PUSH TO TEST. TEST VOLTAGE TERMINAL SHOWN	
PUSHBUTTONS \Im \Box LEVELHS-XXXX $\bullet \bullet \circ$ PUSHBUTTON, MOMENTARY CONTACT, NORMALLY OLOSEDPS \Im PSHS-XXXX $\bullet \bot \bullet$ PUSHBUTTON, MOMENTARY CONTACT, NORMALLY CLOSEDPS \Im PRESSUREHS-XXXX $\bullet \bot \bullet$ PUSHBUTTON, MOMENTARY CONTACT, NORMALLY CLOSEDPS \Im PRESSUREHS-XXXX 	A = AMBER B= BLUE G= GREEN R= RED	
$\frac{1}{1000} = 0$ $\frac{1}{10000} = 0$ $\frac{1}{10000} = 0$ $\frac{1}{10000000000000000000000000000000000$	PUSHBUTTONS	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	PUSHBUTTON, MOMENTARY CONTACT,	o o pressure
Image: Pusheutron with MUSHROOM HEAD, EMERGENCY STOP TIMING RELAYS Image: SELECTOR SWITCHES Image: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: Image: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: Image: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: Image: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: Image: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: Image: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: Image: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: Image: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: Image: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: Image: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: Image: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: Image: SEC/MIN SET: SEC/MIN SET: SEC/MIN SET: <t< td=""><td>PUSHBUTTON, MOMENTARY CONTACT,</td><td>~</td></t<>	PUSHBUTTON, MOMENTARY CONTACT,	~
SELECTOR SWITCHESSEC / MINSEC / MIN<		
HS-XXXX $1 \rightarrow 2$ 2 POSITION MAINTAINED CONTACT X = CONTACTS CLOSED HS-XXXXX $1 \rightarrow 2$ 0 = CONTACTS OPENED HS-XXXXX $1 \rightarrow 2$ 0 = CONTACTS CLOSED HS-XXXXX $1 \rightarrow 2$ 0 = CONTACTS CLOSED 0 = CONTACTS CLOSED	SELECTOR SWITCHES	SEC / MIN FUNCTION: ON OR OFF DELAY RANGE: SEC / MIN
$\begin{array}{c} 1 \\ \hline \\$	2 POSITION MAINTAINED CONTACT X = CONTACTS CLOSED	NORMALLY <u>OPEN</u> TR3 TR3 TR3 TR3 TR3 TR3 TR3 TR3
HS-XXXXX	2 POSITION SPRING XO 2 POSITION SPRING RETURNED TO RIGHT O = CONTACTS OPENED X = CONTACTS OF CLOSED	OPEN CLOSED TR3 TR3 TR3 DELAY ON COIL OR TC OR DE-ENERGIZATION TO TO TO TO
		(LINE OR RUNG NUMBER 50 SHOWN)
OX C = CONTACTOR, LIGHTING, OR GENERAL USE F = FAST OR FORWARD M = MAIN OR LINE	X = CONTACTS CLOSED	OPERATING COIL: C = CONTACTOR, LIGHTING, OR GENERAL USE F = FAST OR FORWARD M = MAIN OR LINE
CONTROL RELAYS1M = FIRST MAIN OR WYE 2M = SECOND MAIN OR DELTA R = RUN OR REVERSE S = SLOW OR START IC = ISOLATION CONTROL	CONTROL RELAYS	2M = SECOND MAIN OR DELTA R = RUN OR REVERSE S = SLOW OR START
U MODIFIERS: LR MECHANICALLY LATCHED RELAY WITH UNLATCHED COIL LR FVR = FULL VOLTAGE REVERSING RVS = REDUCED VOLTAGE STARTER RVSS = REDUCED VOLTAGE SOLID STATE OUTPUT CONTACTS. LINE NUMBER OF RELAY COIL STARTER RVAT = REDUCED VOLTAGE	1 CR = CONTROL RELAY FUNCTION U L 8 MECHANICALLY LATCHED RELAY WITH UNLATCHED COIL OUTPUT CONTACTS. LINE NUMBER OF RELAY COIL	MAIN CONTACTS: SIZE X MAIN CONTACTS AIR BREAK, NEMA SIZE OPTIONAL MODIFIERS: FVR = FULL VOLTAGE REVERSING RVS = REDUCED VOLTAGE STARTER RVSS = REDUCED VOLTAGE SOLID STATE STARTER
CR1 CR2 SHOWN (OPTIONAL) AUTOTRANSFORMER STARTER	OPERATING COIL FUNCTIONS: LINE 30 LINE 30 LINE 30 L = LATCH U = UNLATCH TR = TIMER RELAY LR = LATCH RELAY	AUTOTRANSFORMER STARTER 2S2W = TWO SPEED, TWO WINDING STARTER M VACUUM CONTACTOR, NEMA SIZE OPTIONAL

S



4

GENERATOR WITH WINDING CONFIGURATION VOLTAGE, POWER, FREQUENCY SHOWN. POWER FACTOR OPTIONAL

MOTOR, HORSE POWER SHOWN

POWER FACTOR CORRECTIONS CAPACITOR KVAR RATING SHOWN

POTHEAD

STRESS CONE

PORTABLE CABLE

CABLE BUS

BUS CONDUCTOR

CABLE CONDUCTOR

SURGE ARRESTOR

LIGHTNING ARRESTOR

TEST DEVICE

DISCONNECT OR ISOLATING SWITCH 200 AMP SHOWN

POWER TRANSFORMER, VOLTAGES, SIZE, AND IMPEDANCE SHOWN

ISOLATION TRANSFORMER, VOLTAGES, SIZE, AND IMPEDANCE SHOWN

POTENTIAL TRANSFORMER, PT QUANTITY SHOWN (3) AND VOLTAGES SHOWN

> CURRENT TRANSFORMER, CT QUANTITY AND 250:5 TURNS RATIO SHOWN

WINDING CONFIGURATIONS:

DELTA

WYE (GROUNDED)

KIRK KEY INTERLOCK

50 AMP / 30 SEC

5

+ \bigcirc

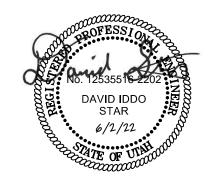
NEUTRAL GROUNDING RESISTOR. AMPS/TIME RATING SHOWN

SMART MOTOR STARTER, NEMA SIZE 1



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С



BID SET



JVWTP SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT

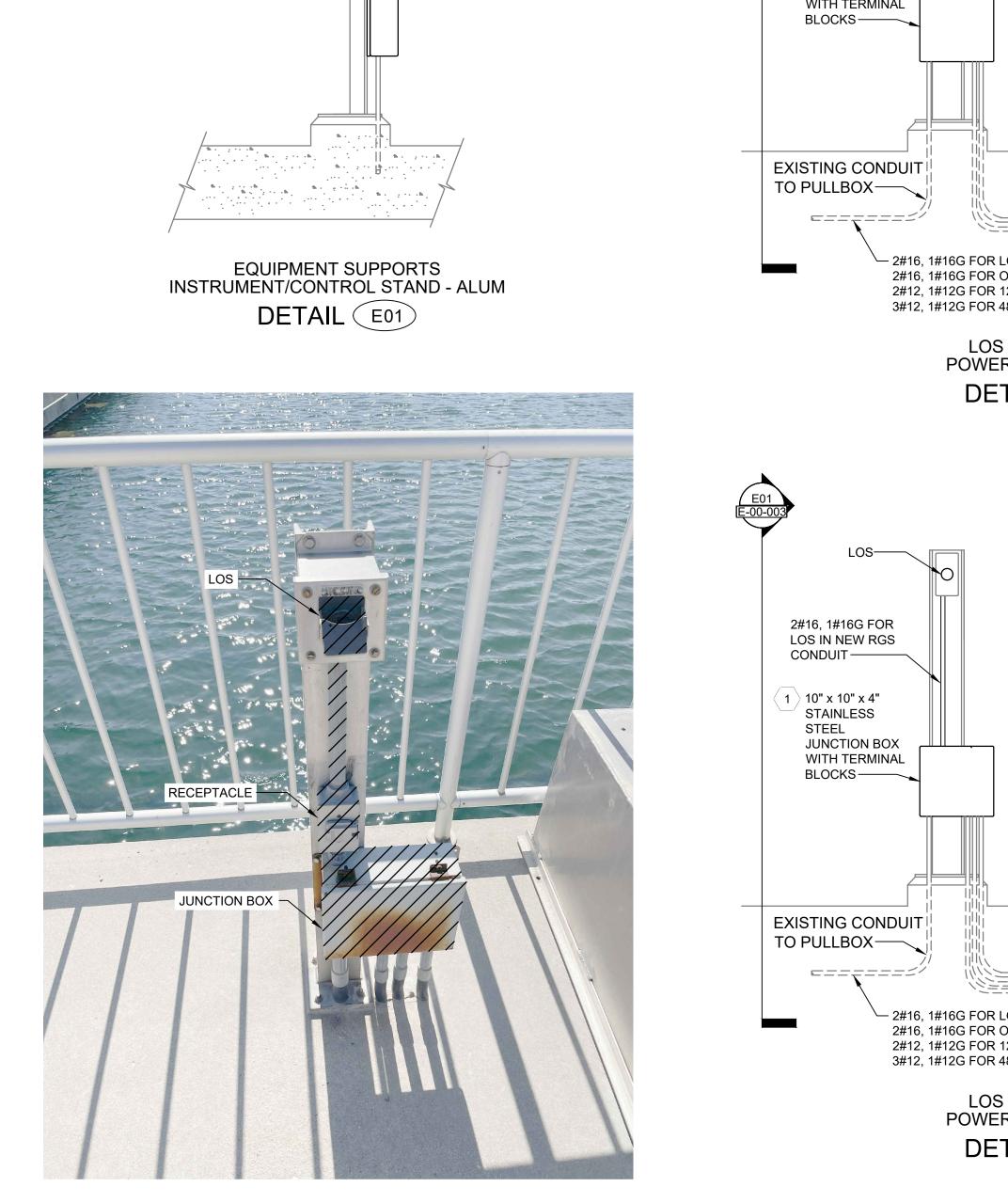
REVISIONS REV DATE DESCRIPTION LINE IS 2 INCHES -AT FULL SIZE DESIGNED: N. ANDERSON DRAWN: B. PENALBA CHECKED: J. HIMEBAUGH CHECKED: D. STAR APPROVED: D. STAR FILENAME E-00-002.dwg

BC PROJECT NUMBER 157012 CLIENT PROJECT NUMBER 4277

ELECTRICAL

STANDARD DETAILS, SYMBOLS AND **ABBREVIATIONS - 2** DRAWING NUMBER E-00-002 27 SHEET NUMBER 48 OF

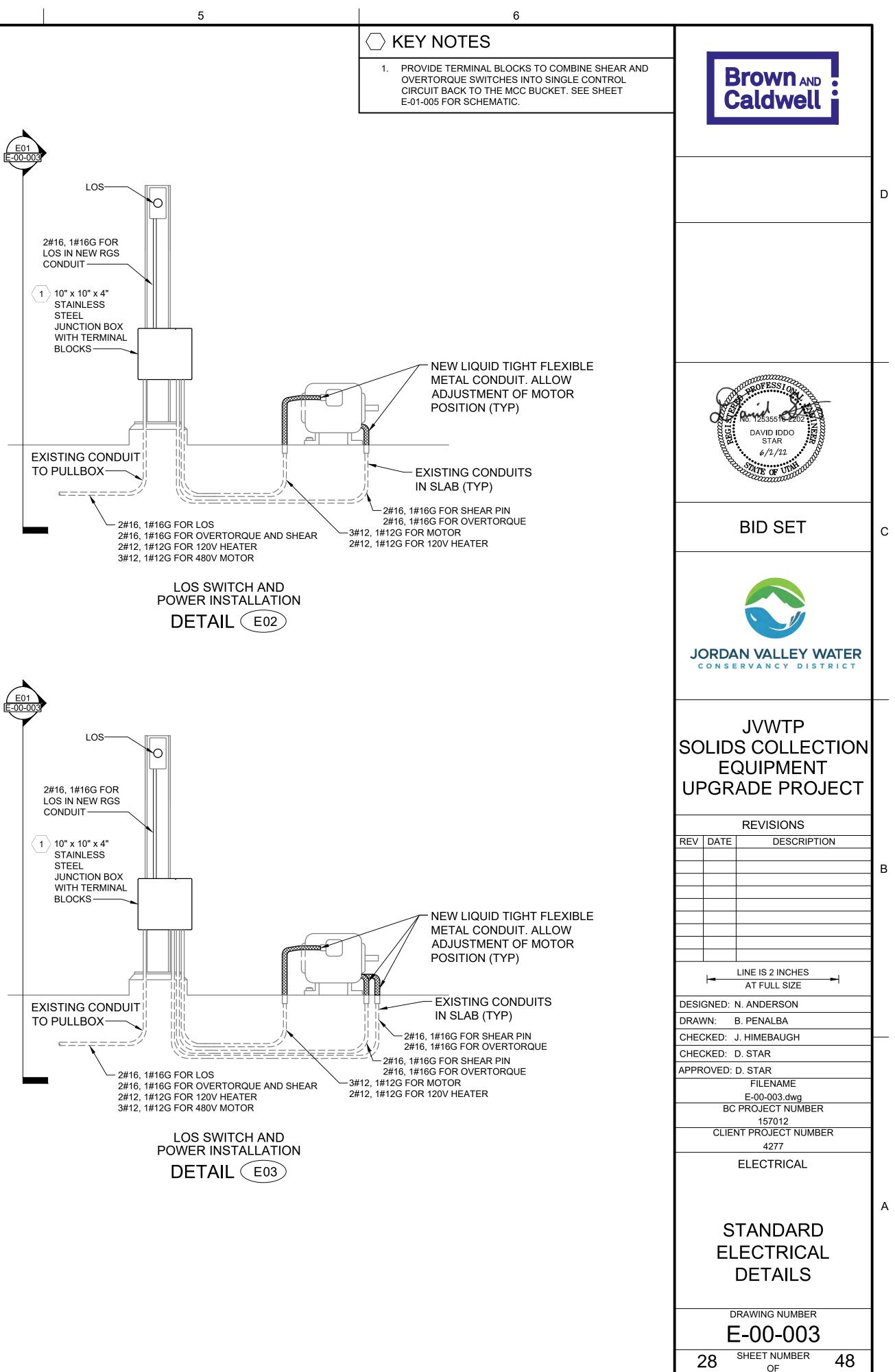
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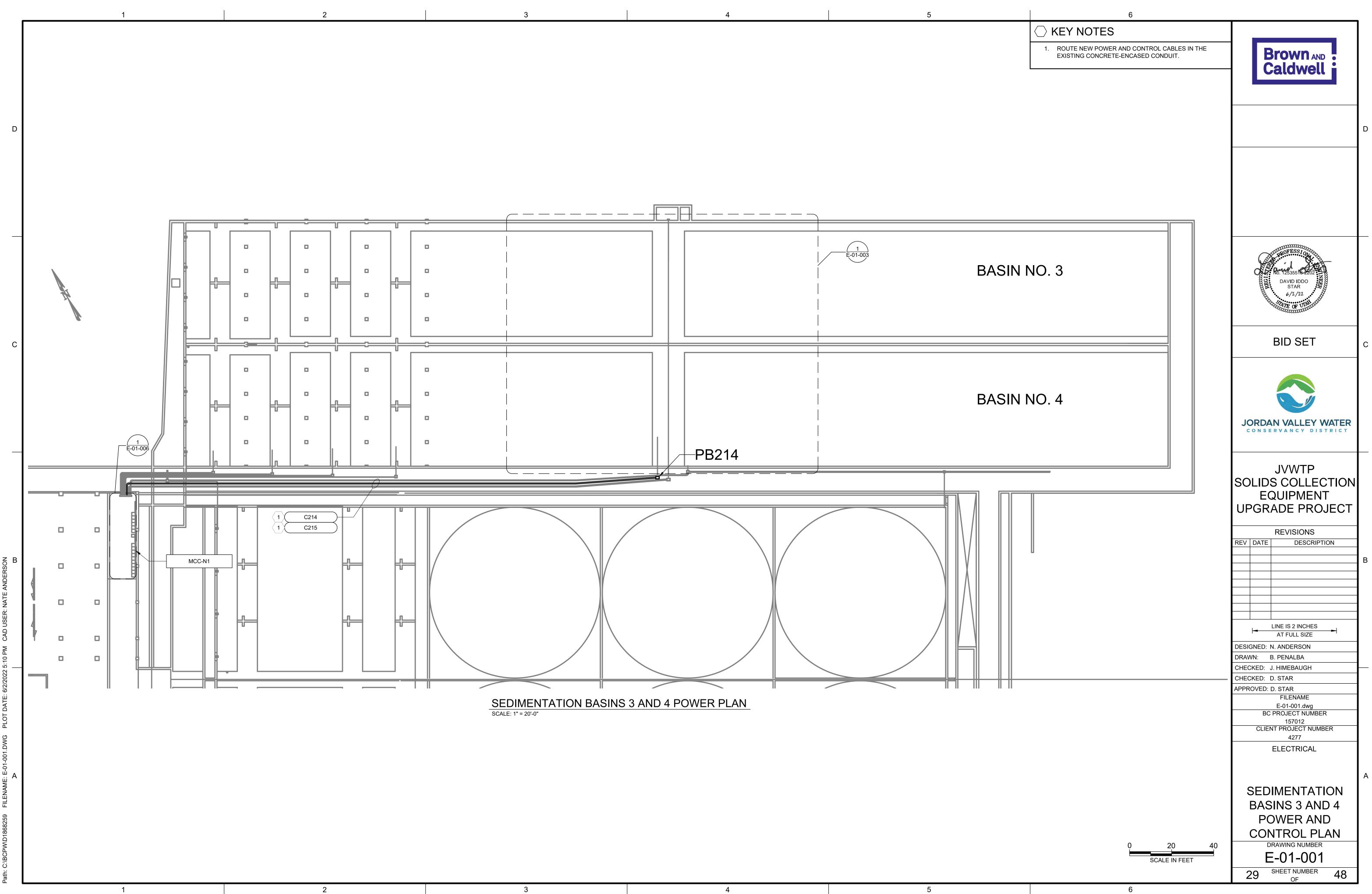
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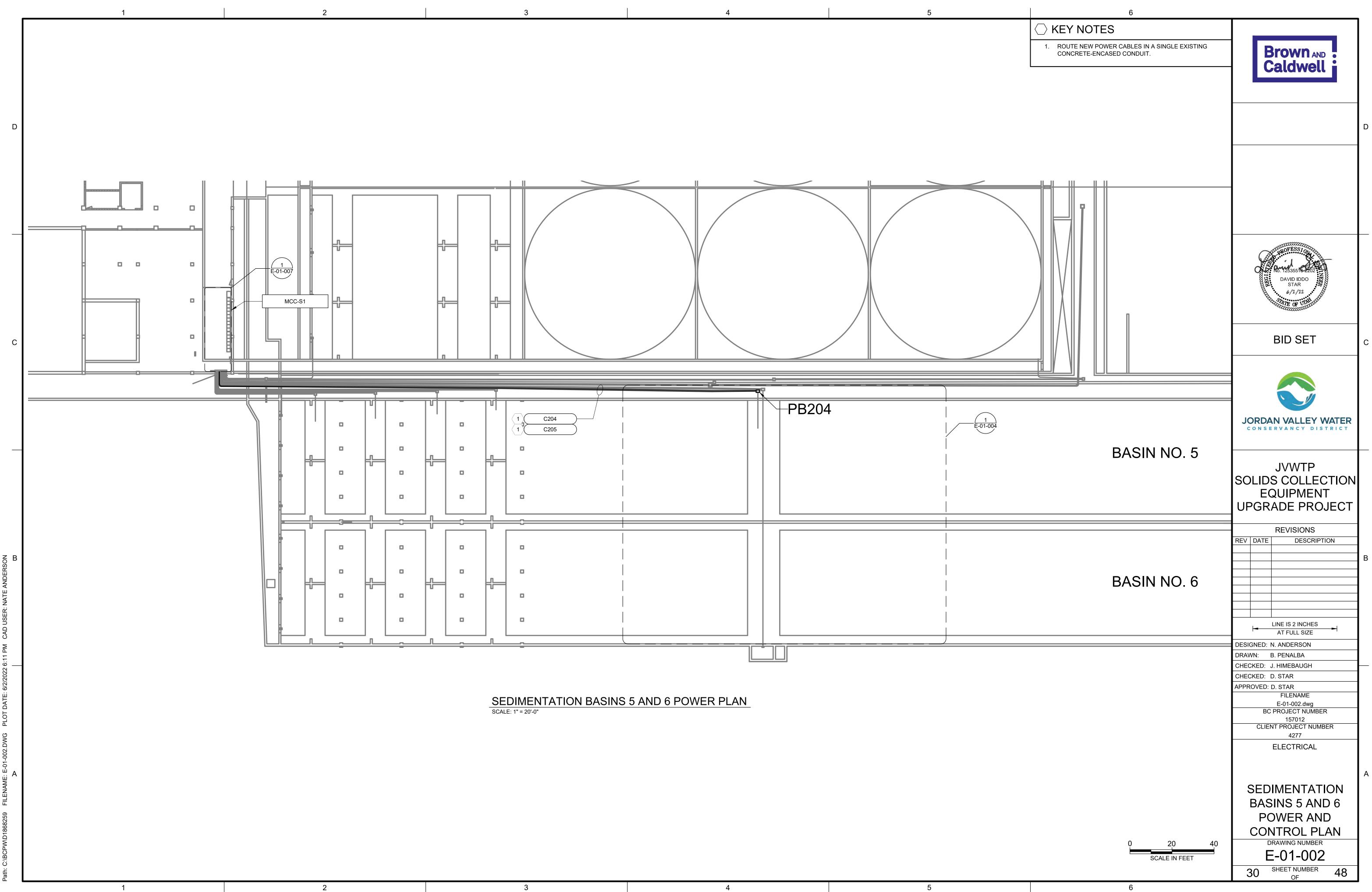
DEMOLISH EQUIPMENT SUPPORTS INSTRUMENT/CONTROL STAND - ALUM DETAIL (ED01)

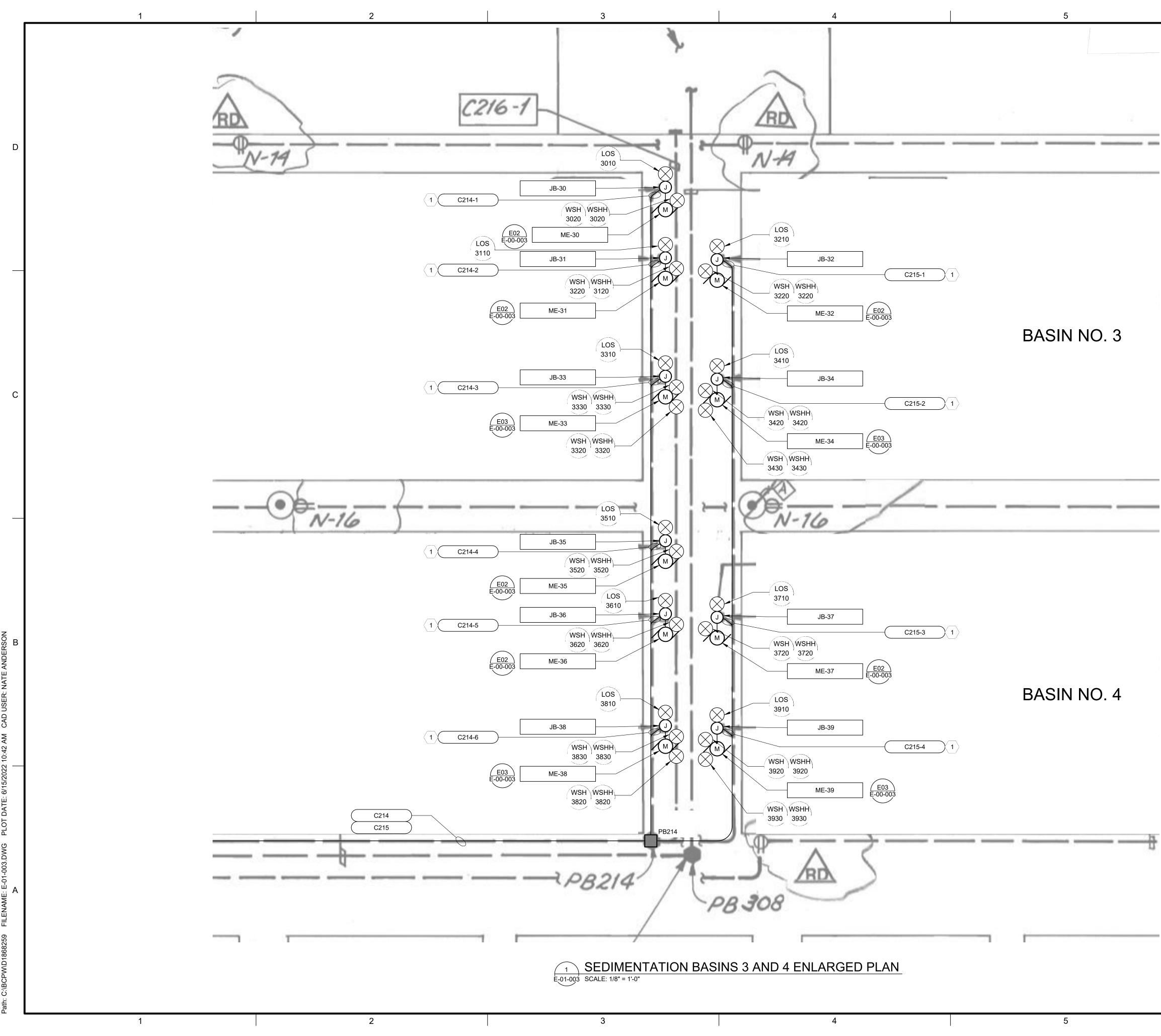
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– ALUMINUM C CHANNEL 1.5" X 4" X 41.5" -LOCKOUT STOP SWITCH 4" X 4" X 3.5" (LOS) STAINLESS STEEL BOX -2#16, 1#16G FOR LOS IN NEW RGS CONDUIT — _ 10" x 10" x 4" STAINLESS STEEL JUNCTION BOX

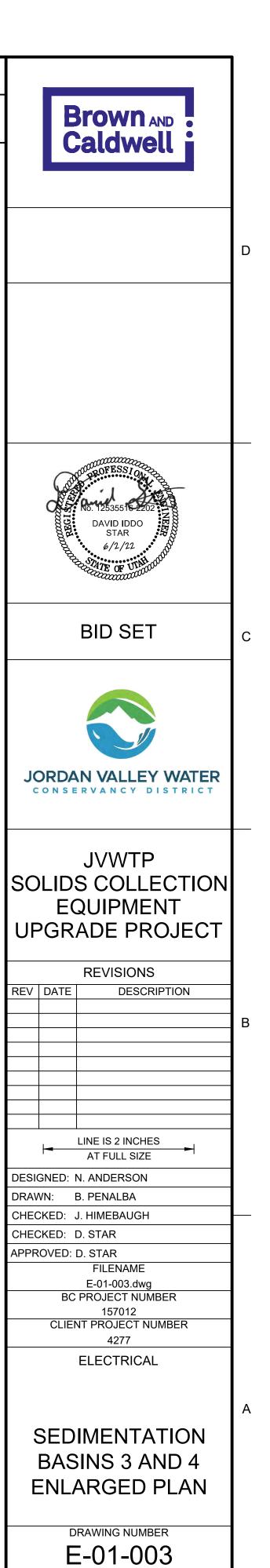




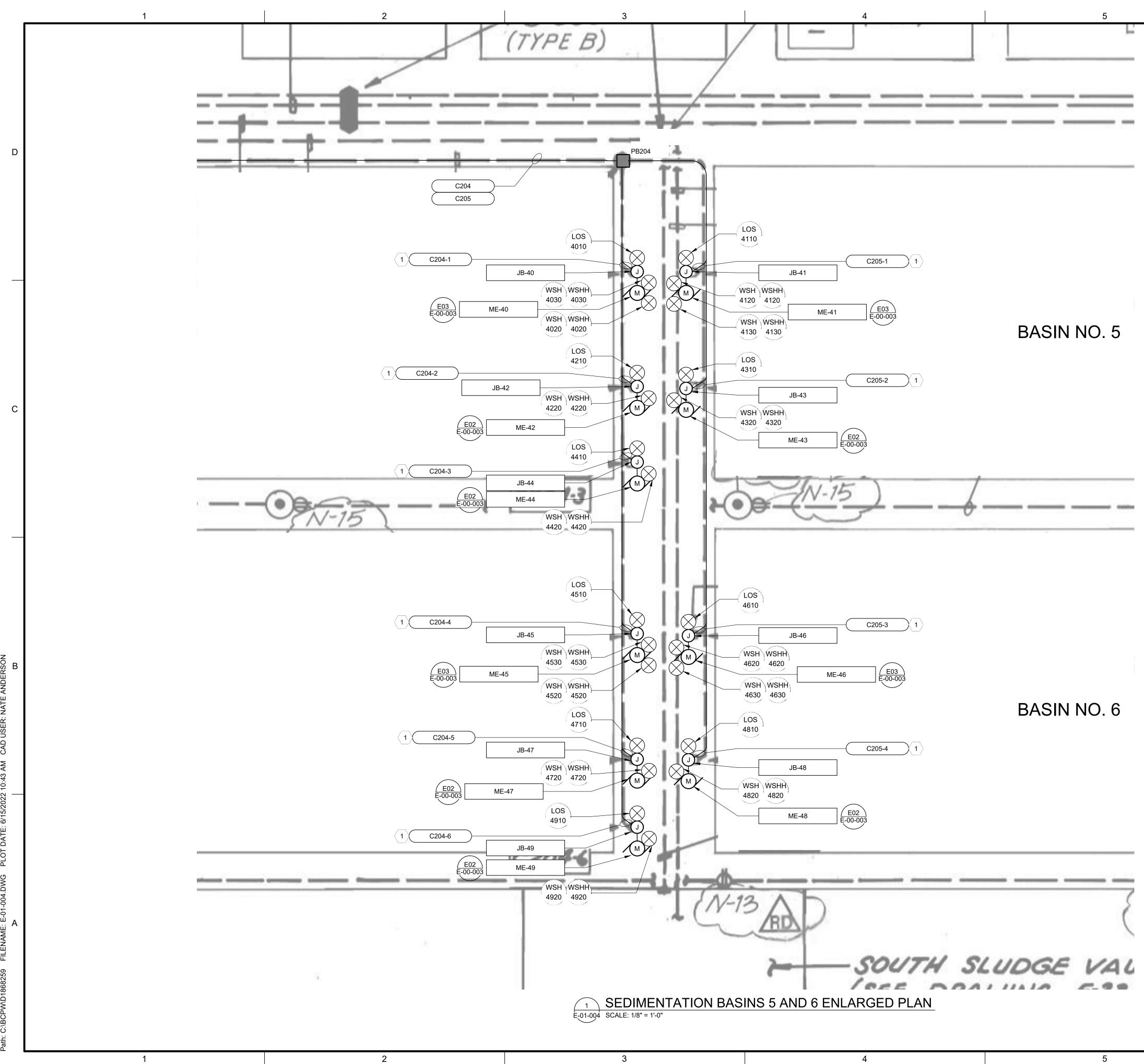


ROUTE NEW POWER AND CONTROL CABLES IN THE EXISTING CONCRETE-ENCASED CONDUIT.

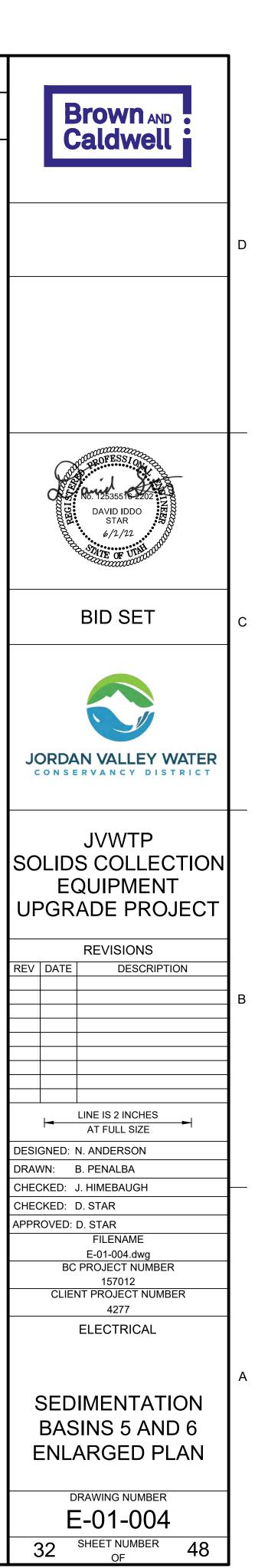
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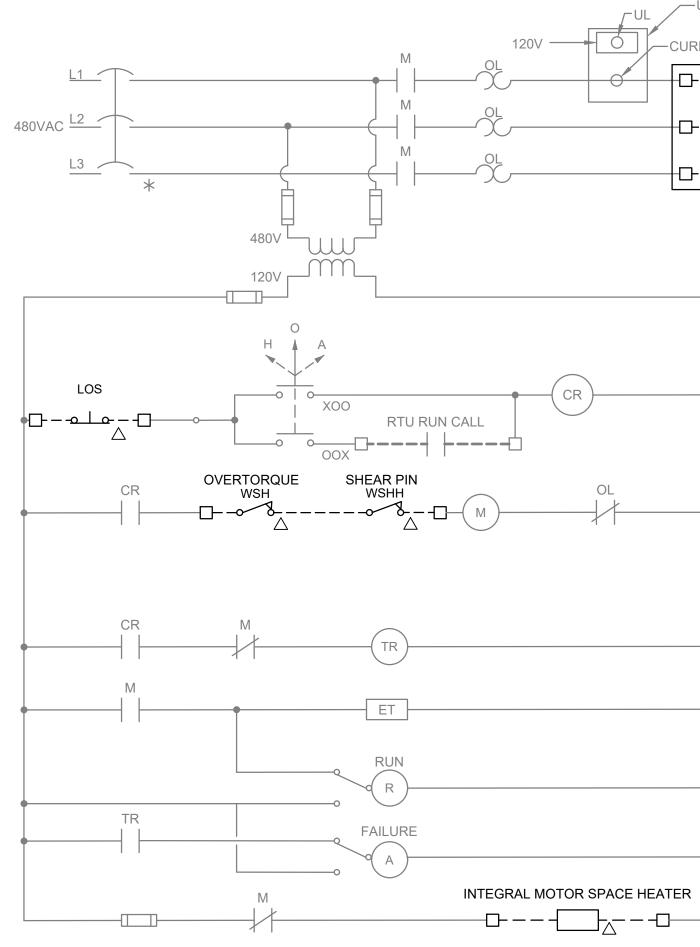


31 SHEET NUMBER OF



1. ROUTE NEW POWER AND CONTROL CABLES IN THE EXISTING CONCRETE-ENCASED CONDUIT.





MOTOR CONTROL SCHEMATIC 1

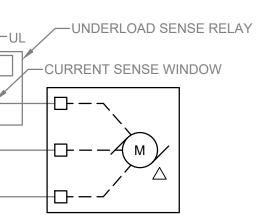
MOTOR TAG	EQUIPMENT NAME	P&ID
ME-30	SLUDGE COLLECTOR 2330	I-01-001
ME-31	SLUDGE COLLECTOR 2331	I-01-001
ME-32	SLUDGE COLLECTOR 2332	I-01-001
ME-35	SLUDGE COLLECTOR 2335	I-01-002
ME-36	SLUDGE COLLECTOR 2336	I-01-002
ME-37	SLUDGE COLLECTOR 2337	I-01-002
ME-42	SLUDGE COLLECTOR 2342	I-01-003
ME-43	SLUDGE COLLECTOR 2343	I-01-003
ME-44	SLUDGE COLLECTOR 2344	I-01-003
ME-47	SLUDGE COLLECTOR 2347	I-01-004
ME-48	SLUDGE COLLECTOR 2348	I-01-004
ME-49	SLUDGE COLLECTOR 2349	I-01-004

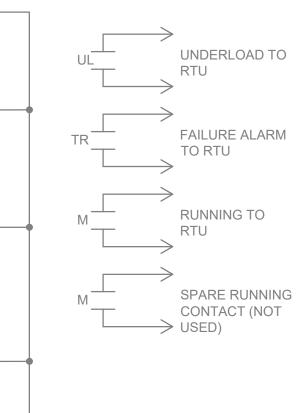
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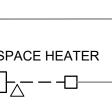


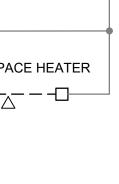


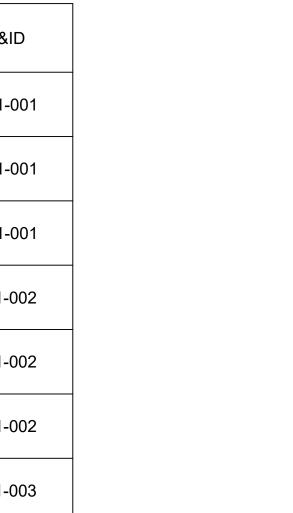




MCC BUCKET TERMINATION







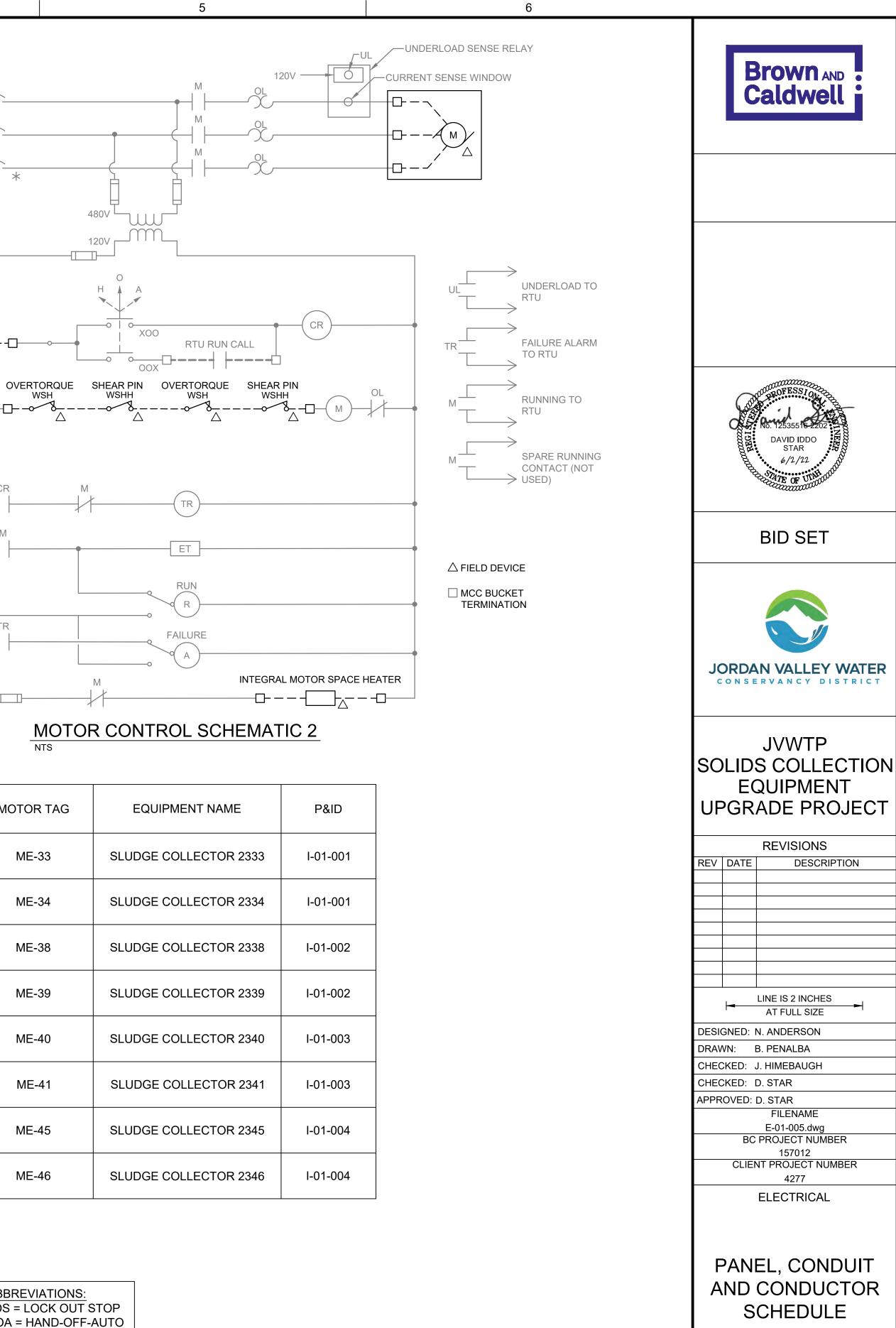
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480V L 120V _____ LOS ♦<mark>[]- - مـ اـ</mark> م- - - [] Δ CR CR Μ

TR

480VAC L2

L3



MOTOR TAG	EQUIPMENT NAME	P&I
ME-33	SLUDGE COLLECTOR 2333	I-01-0
ME-34	SLUDGE COLLECTOR 2334	I-01-0
ME-38	SLUDGE COLLECTOR 2338	I-01-0
ME-39	SLUDGE COLLECTOR 2339	I-01-0
ME-40	SLUDGE COLLECTOR 2340	I-01-0
ME-41	SLUDGE COLLECTOR 2341	I-01-0
ME-45	SLUDGE COLLECTOR 2345	I-01-0
ME-46	SLUDGE COLLECTOR 2346	I-01-0

ABBREVIATIONS:	
LOS = LOCK OUT S	STOP
HOA = HAND-OFF-	AUTO
UL = UNDERLOAD	
OL = OVERLOAD	
TR = TIME RELAY	

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DRAWING NUMBER

E-01-005

33 SHEET NUMBER OF

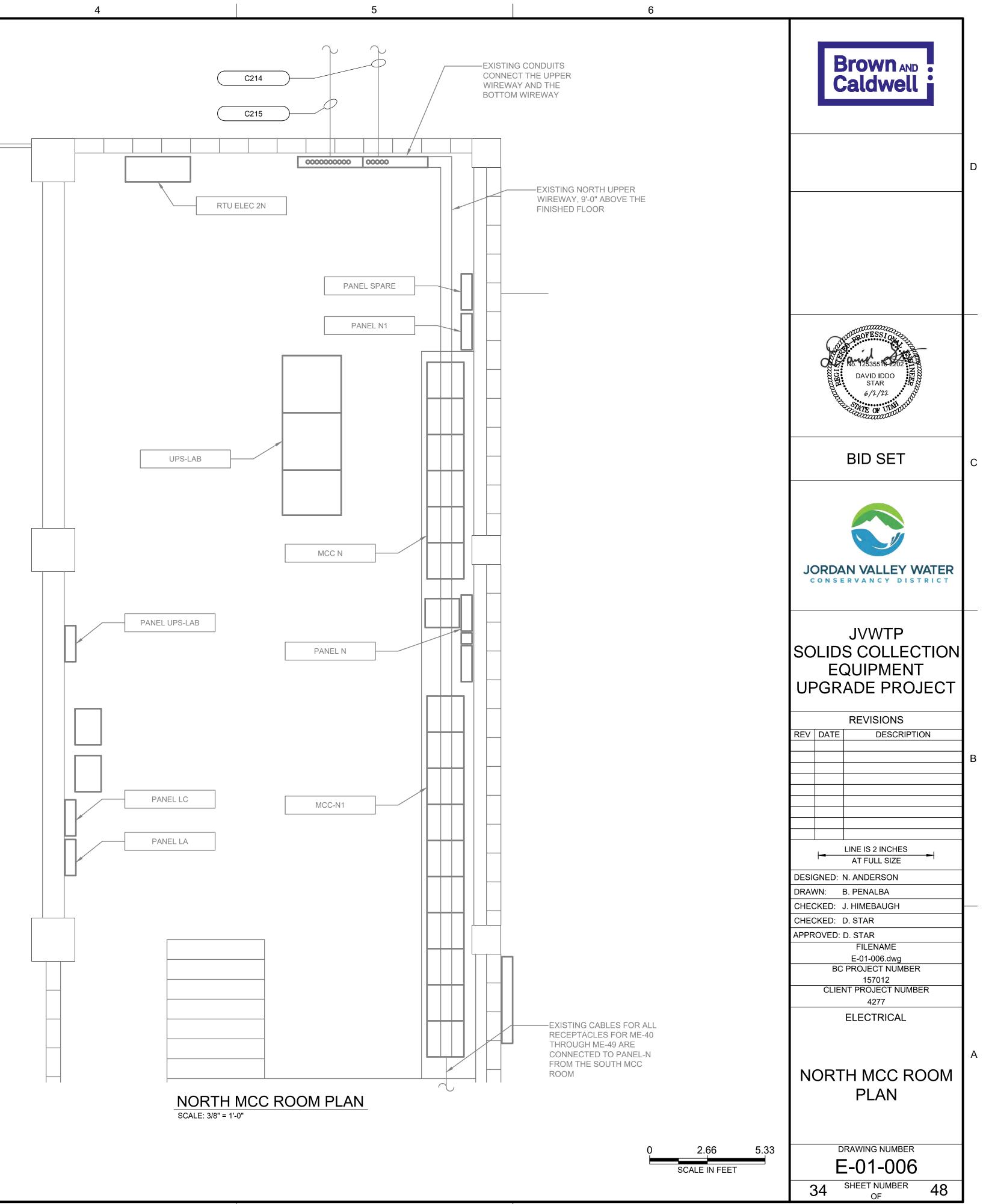
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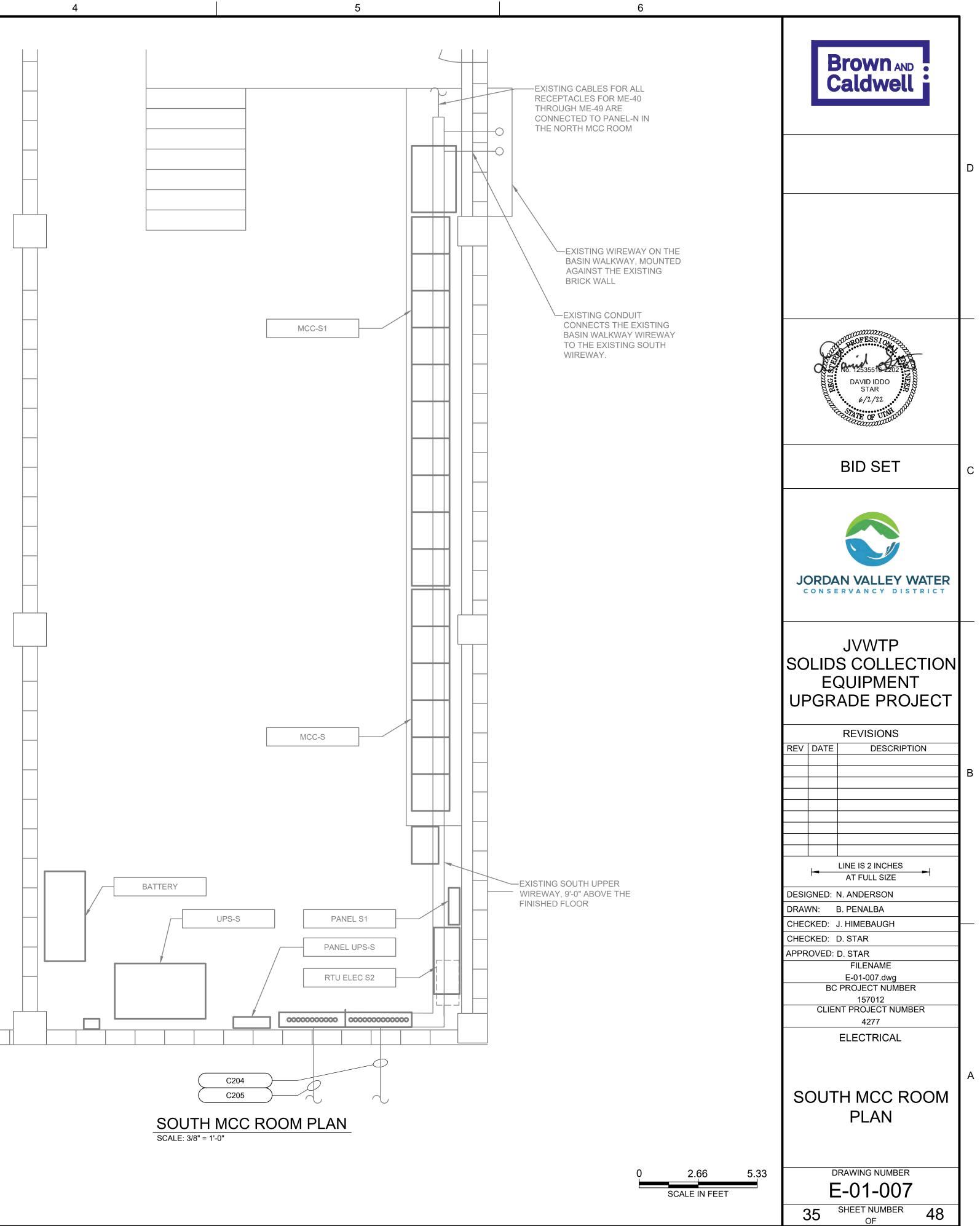




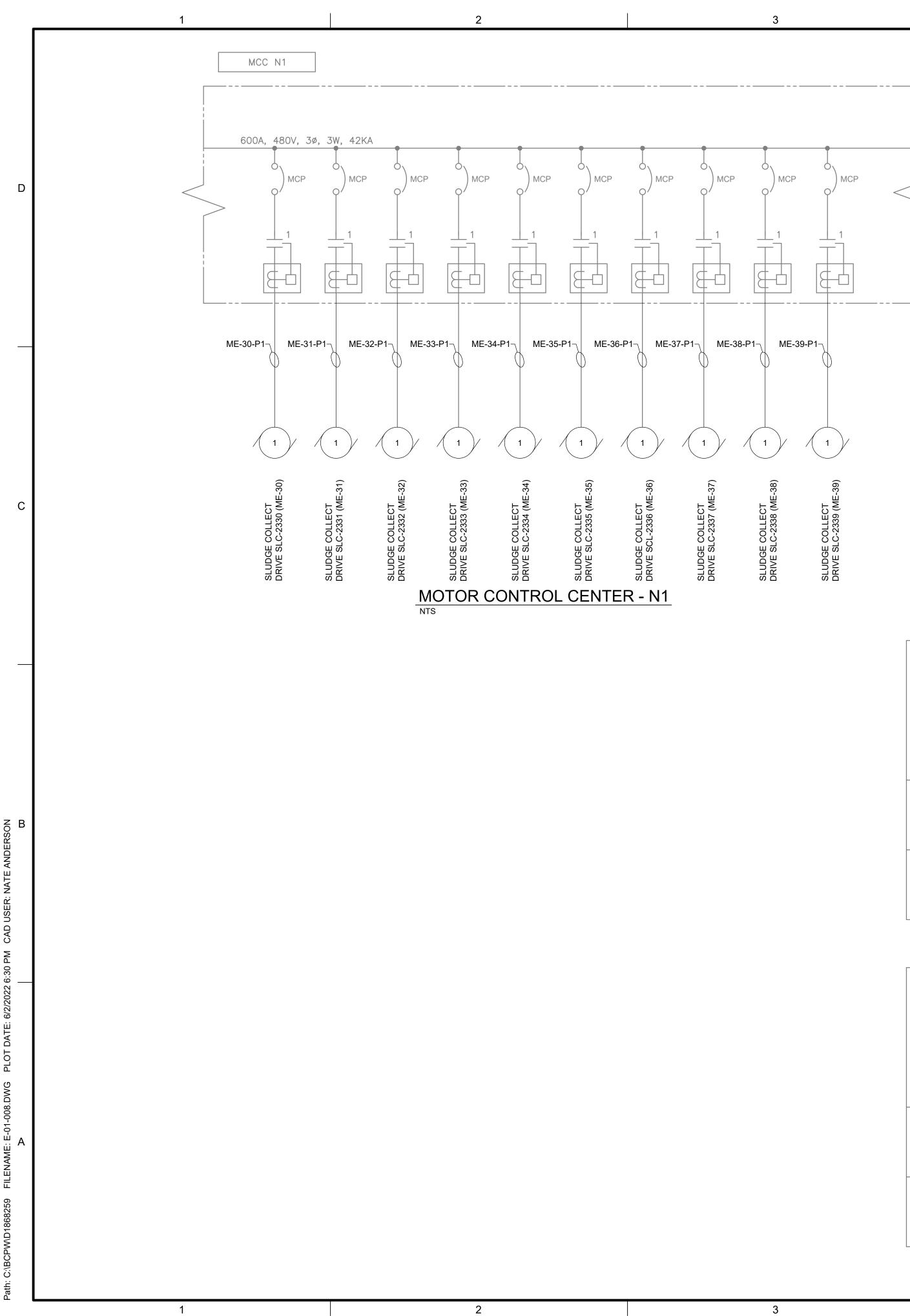




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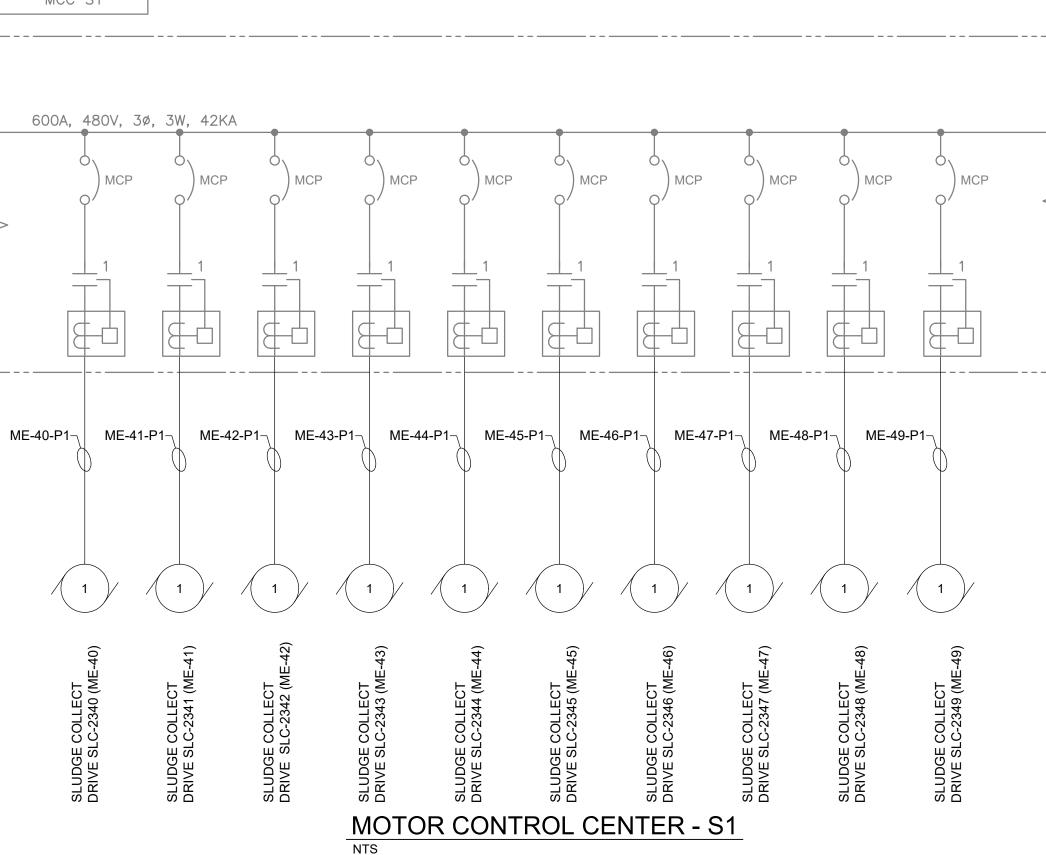








MCC S1



SOURCE LINE	FLOCCULATION MIXER 2220	FLOCCULATION MIXER 2224	FLOCCULATION MIXER 2228	SLUDGE COLLECTOR 2330	SLUDGE COLLECTOR 2334	SLUDGE COLLECTOR 2338	SPACE	NORTH RAPID MIX PUMP	SPACE
TERMINATION	(MX-20)	(MX-24)	(MX-28)	(ME-30)	(ME-34)	(ME-38)	SPACE	1 Givi	SPACE
	FLOCCULATION MIXER 2222 (MX-22)	FLOCCULATION MIXER 2226 (MX-26)	FLOCCULATION MIXER 2270 (MX-70)	COLLECTOR 2331 (ME-31)	COLLECTOR 2335 (ME-35)	COLLECTOR 2339 (ME-39)	PANEL PP-9 FEEDER	-	SPACE
FLOCCULATION MIXER 2244	MIXER 2245	FLOCCULATION MIXER 2252	FLOCCULATION MIXER 2253	SLUDGE COLLECTOR 2332	SLUDGE COLLECTOR 2336	SPACE	SPACE	SPACE	SPACE
(MX-44)	(MX-45)	(MX-52)	(MX-53)	(ME-32)	(ME-36)	UPS-LAB	SPACE		SPACE
				SLUDGE	SLUDGE	FEEDER		SPACE	
FLOCCULATION MIXER 2248 (MX-48)	FLOCCULATION MIXER 2240 (MX-40)	FLOCCULATION MIXER 2256 (MX-56)	FLOCCULATION MIXER 2257 (MX-57)	COLLECTOR 2333 (ME-33)	COLLECTOR 2337 (ME-37)	PANEL LA TRANSFORMER FEEDER	SPACE	GFAGE	SPACE

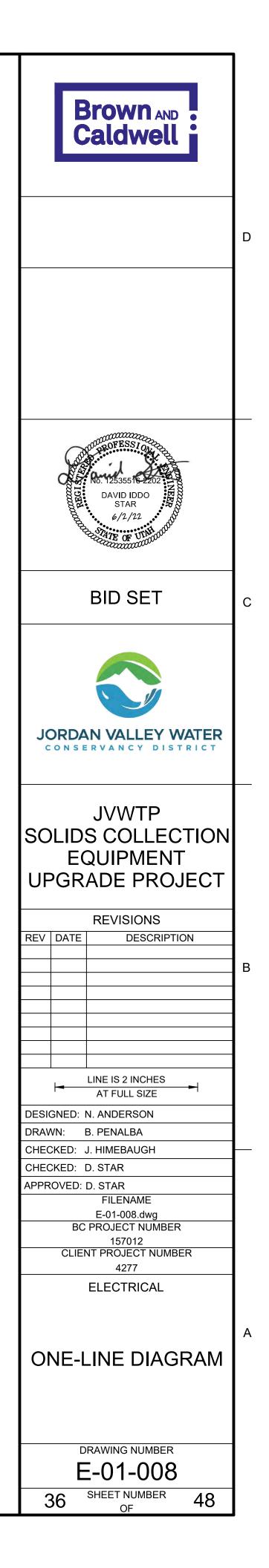
MOTOR CONTROL CENTER - N1 ELEVATION NTS

SOURCE LINE TERMINATION	FLOCCULATION MIXER 2232	FLOCCULATION MIXER 2236	FLOCCULATION MIXER 2240	SLUDGE COLLECTOR 2340	SLUDGE COLLECTOR 2344	SLUDGE COLLECTOR 2348	STOF TENT		SOUTH RAPID MIX PUMP	SPACE
AND MAIN BREAKER	(MX-32)	(MX-36)	(MX-40)	(ME-40)	(ME-44)	(ME-48)	- SP	ARE		SPACE
	FLOCCULATION MIXER 2234 (MX-34)	FLOCCULATION MIXER 2238 (MX-38)	FLOCCULATION MIXER 2242 (MX-42)	COLLECTOR 2341 (ME-41)	COLLECTOR 2345 (ME-45)	COLLECTOR 2349 (ME-49)	PANEL S1 XFMR FEEDER	PILOT PLANT PANEL XFMR FEEDER		SPACE
FLOCCULATION MIXER 2260	FLOCCULATION MIXER 2261	FLOCCULATION MIXER 2268	FLOCCULATION MIXER 2269	SLUDGE COLLECTOR 2342	SLUDGE COLLECTOR 2346	SPARE	UPS RECT		SPACE	SPACE
(MX-60)	(MX-61)	(MX-68)	(MX-69)	(ME-42)	(ME-46)	SPARE	SP/	ACE		SPACE
FLOCCULATION MIXER 2264 (MX-64)	FLOCCULATION MIXER 2265 (MX-65)	FLOCCULATION MIXER 2272 (MX-72)	FLOCCULATION MIXER 2273 (MX-73)	SLUDGE COLLECTOR 2343 (ME 42)	SLUDGE COLLECTOR 2347 (ME 47)	SPARE	SP/	ACE	SPACE	SPACE
(1117-04)				(ME-43)	(ME-47)					

MOTOR CONTROL CENTER - S1 ELEVATION NTS

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CABLE	DRAWING	COUNT/AWG	TYPE	FROM	то	CABLE SCH		v	ΊA			REMARKS
ME-30-P1	E-01-006 E-01-001 E-01-003	3#12, 1#12G		MCC-N1	ME-30	NORTH WIREWAY	C214	PB-214	C214-1	JB-30		480V POWER
ME-30-P2	E-01-006 E-01-001 E-01-003	2#12, 1#12G	XHHW	MCC-N1	ME-30	NORTH WIREWAY	C214	PB-214	C214-1	JB-30		120V HEATER
ME-30-C1	E-01-003 E-01-001 E-01-006	2#16, 1#16G	XHHW	ME-30	MCC-N1		JB-30	C214-1	PB-214	C214	NORTH WIREWAY	LOCK OUT STOP
ME-30-C2	E-01-003 E-01-001 E-01-006	2#16, 1#16G	XHHW	ME-30	MCC-N1		JB-30	C214-1	PB-214	C214	NORTH WIREWAY	SHEAR AND OVERTORQUE
ME-31-P1	E-01-006 E-01-001 E-01-003	3#12, 1#12G	XHHW	MCC-N1	ME-31	NORTH WIREWAY	C214	PB-214	C214-2	JB-31		480V POWER
ME-31-P2	E-01-006 E-01-001 E-01-003	2#12, 1#12G	XHHW	MCC-N1	ME-31	NORTH WIREWAY	C214	PB-214	C214-2	JB-31		120V HEATER
ME-31-C1	E-01-003 E-01-001 E-01-006	2#16, 1#16G	XHHW	ME-31	MCC-N1		JB-31	C214-2	PB-214	C214	NORTH WIREWAY	LOCK OUT STOP
ME-31-C2	E-01-003 E-01-001 E-01-006	2#16, 1#16G	XHHW	ME-31	MCC-N1		JB-31	C214-2	PB-214	C214	NORTH WIREWAY	SHEAR AND OVERTORQUE
ME-32-P1	E-01-006 E-01-001 E-01-003	3#12, 1#12G	XHHVV	MCC-N1	ME-32	NORTH WIREWAY	C215	PB-214	C215-1	JB-32		480V POWER
ME-32-P2	E-01-006 E-01-001 E-01-003	2#12, 1#12G	хннуу	MCC-N1	ME-32	NORTH WIREWAY	C215	PB-214	C215-1	JB-32		120V HEATER
ME-32-C1	E-01-003 E-01-001 E-01-006	2#16, 1#16G	XHHW	ME-32	MCC-N1		JB-32	C215-1	PB-214	C215	NORTH WIREWAY	LOCK OUT STO
ME-32-C2	E-01-003 E-01-001 E-01-006	2#16, 1#16G	хннуу	ME-32	MCC-N1		JB-32	C215-1	PB-214	C215	NORTH WIREWAY	SHEAR AND OVERTORQUE
ME-33-P1	E-01-006 E-01-001 E-01-003 E-01-006	3#12, 1#12G	XHHW	MCC-N1	ME-33	NORTH WIREWAY	C214	PB-214	C214-3	JB-33		480V POWER
ME-33-P2	E-01-000 E-01-001 E-01-003 E-01-003	2#12, 1#12G	XHHW	MCC-N1	ME-33	NORTH WIREWAY	C214	PB-214	C214-3	JB-33		120V HEATER
ME-33-C1	E-01-003 E-01-006 E-01-003	2#16, 1#16G	XHHW	ME-33	MCC-N1		JB-33	C214-3	PB-214	C214	NORTH WIREWAY	LOCK OUT STOP
ME-33-C2	E-01-003 E-01-001 E-01-006 E-01-006	2#16, 1#16G	XHHW	ME-33	MCC-N1		JB-33	C214-3	PB-214	C214	NORTH WIREWAY	SHEAR AND OVERTORQUE
ME-34-P1	E-01-001 E-01-003 E-01-006	3#12, 1#12G	хннуу	MCC-N1	ME-34	NORTH WIREWAY	C215	PB-214	C215-2	JB-34		480V POWER
ME-34-P2	E-01-001 E-01-003 E-01-003	2#12, 1#12G	XHHVV	MCC-N1	ME-34	NORTH WIREWAY	C215	PB-214	C215-2	JB-34	NODTU	120V HEATER
ME-34-C1	E-01-001 E-01-006 E-01-003	2#16, 1#16G	XHHW	ME-34	MCC-N1		JB-34	C215-2	PB-214	C215	NORTH WIREWAY	
ME-34-C2	E-01-001 E-01-006	2#16, 1#16G	XHHW	ME-34	MCC-N1		JB-34	C215-2	PB-214	C215	NORTH WIREWAY	SHEAR AND OVERTORQUE



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CABLE	SCHEDULE	



					CABLE SCH	EDULE						
CABLE	DRAWING	COUNT/AWG TYPE	FROM	ТО			V	A			REMARKS	
ME-35-P1	E-01-006 E-01-001 E-01-003	3#12, 1#12G XHHW	MCC-N1	ME-35	NORTH WIREWAY	C214	PB-214	C214-4	JB-35		480V POWER	
ME-35-P2	E-01-006 E-01-001 E-01-003	2#12, 1#12G XHHW	MCC-N1	ME-35	NORTH WIREWAY	C214	PB-214	C214-4	JB-35		120V HEATER	
ME-35-C1	E-01-003 E-01-001 E-01-006	2#16, 1#16G XHHW	/ ME-35	MCC-N1		JB-35	C214-4	PB-214	C214	NORTH WIREWAY	LOCK OUT STOP	
ME-35-C2	E-01-003 E-01-001 E-01-006	2#16, 1#16G XHHW	/ ME-35	MCC-N1		JB-35	C214-4	PB-214	C214	NORTH WIREWAY		
ME-36-P1	E-01-006 E-01-001 E-01-003	3#12, 1#12G XHHW	MCC-N1	ME-36	NORTH WIREWAY	C214	PB-214	C214-5	JB-36		480V POWER	
ME-36-P2	E-01-006 E-01-001 E-01-003	2#12, 1#12G XHHW	MCC-N1	ME-36	NORTH WIREWAY	C214	PB-214	C214-5	JB-36		120V HEATER	
ME-36-C1	E-01-003 E-01-001 E-01-006	2#16, 1#16G XHHW	/ ME-36	MCC-N1		JB-36	C214-5	PB-214	C214	NORTH WIREWAY	LOCK OUT STOP	
ME-36-C2	E-01-003 E-01-001 E-01-006	2#16, 1#16G XHHW	/ ME-36	MCC-N1		JB-36	C214-5	PB-214	C214	NORTH WIREWAY	SHEAR AND OVERTORQUE	
ME-37-P1	E-01-006 E-01-001 E-01-003	3#12, 1#12G XHHW	MCC-N1	ME-37	NORTH WIREWAY	C215	PB-214	C215-3	JB-37		480V POWER	
ME-37-P2	E-01-006 E-01-001 E-01-003	2#12, 1#12G XHHW	MCC-N1	ME-37	NORTH WIREWAY	C215	PB-214	C215-3	JB-37	120V HEATER		
ME-37-C1	E-01-003 E-01-001 E-01-006	2#16, 1#16G XHHW	/ ME-37	MCC-N1		JB-37	C215-3	PB-214	C215	NORTH WIREWAY		
ME-37-C2	E-01-003 E-01-001 E-01-006	2#16, 1#16G XHHW	/ ME-37	MCC-N1		JB-37	C215-3	PB-214	C215	NORTH WIREWAY	SHEAR AND OVERTORQUE	
ME-38-P1	E-01-006 E-01-001 E-01-003	3#12, 1#12G XHHW	MCC-N1	ME-38	NORTH WIREWAY	C214	PB-214	C214-6	JB-38		480V POWER	
ME-38-P2	E-01-006 E-01-001 E-01-003	2#12, 1#12G XHHW	MCC-N1	ME-38	NORTH WIREWAY	C214	PB-214	C214-6	JB-38		120V HEATER	
ME-38-C1	E-01-003 E-01-001 E-01-006	2#16, 1#16G XHHW	/ ME-38	MCC-N1		JB-38	C214-6	PB-214	C214	NORTH WIREWAY	LOCK OUT STOP	
ME-38-C2	E-01-003 E-01-001 E-01-006	2#16, 1#16G XHHW	/ ME-38	MCC-N1		JB-38	C214-6	PB-214	C214	NORTH WIREWAY	SHEAR AND OVERTORQUE	
ME-39-P1	E-01-006 E-01-001 E-01-003	3#12, 1#12G XHHV	MCC-N1	ME-39	NORTH WIREWAY	C215	PB-214	C215-4	JB-39		480V POWER	
ME-39-P2	E-01-006 E-01-001 E-01-003	2#12, 1#12G XHHW	MCC-N1	ME-39	NORTH WIREWAY	C215	PB-214	C215-4	JB-39		120V HEATER	
ME-39-C1	E-01-003 E-01-001 E-01-006	2#16, 1#16G XHHW	ME-39	MCC-N1		JB-39	C215-4	PB-214	C215	NORTH WIREWAY	LOCK OUT STOP	
ME-39-C2	E-01-003 E-01-001 E-01-006	2#16, 1#16G XHHW	/ ME-39	MCC-N1		JB-39	C215-4	PB-214	C215	NORTH WIREWAY	SHEAR AND OVERTORQUE	

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						CABLE SCH	EDULE							
CABLE	DRAWING	COUNT/AWG	TYPE	FROM	то			V	Ί Α			REMARKS		
ME-40-P1	E-01-007 E-01-002 E-01-004	3#12, 1#12G	XHHW	MCC-S1	ME-40	SOUTH WIREWAY	C204	PB-204	C204-1	JB-40		480V POWER		
ME-40-P2	E-01-007 E-01-002 E-01-004	2#12, 1#12G	XHHW	MCC-S1	ME-40	SOUTH WIREWAY	C204	PB-204	C204-1	JB-40		120V HEATER		
ME-40-C1	E-01-004 E-01-002 E-01-007	2#16, 1#16G	XHHW	ME-40	MCC-S1		JB-40	C204-1	PB-204	C204	SOUTH WREWAY	LOCK OUT STOP		
ME-40-C2	E-01-004 E-01-002 E-01-007	2#16, 1#16G	хннw	ME-40	MCC-S1		JB-40	C204-1	PB-204	C204	SOUTH WREWAY	SHEAR AND OVERTORQUE		
ME-41-P1	E-01-007 E-01-002 E-01-004	3#12, 1#12G	хннуу	MCC-S1	ME-41	SOUTH WIREWAY	C205	PB-204	C205-1	JB-41		480V POWER		
ME-41-P2	E-01-007 E-01-002 E-01-004	2#12, 1#12G	XHHW	MCC-S1	ME-41	SOUTH WIREWAY	C205	PB-204	C205-1	JB-41		120V HEATER		
ME-41-C1	E-01-004 E-01-002 E-01-007	2#16, 1#16G	хннw	ME-41	MCC-S1		JB-41	C205-1	PB-204	C205	SOUTH WREWAY			
ME-41-C2	E-01-004 E-01-002 E-01-007	2#16, 1#16G	XHHW	ME-41	MCC-S1		JB-45	C205-1	PB-204	C205	SOUTH WIREWAY			
ME-42-P1	E-01-007 E-01-002 E-01-004	3#12, 1#12G	XHHW	MCC-S1	ME-42	SOUTH WIREWAY	C204	PB-204	C204-2	JB-42		480V POWER		
ME-42-P2	E-01-007 E-01-002 E-01-004	2#12, 1#12G	XHHW	MCC-S1	ME-42	SOUTH WIREWAY	C204	PB-204	C204-2	JB-42		120V HEATER		
ME-42-C1	E-01-004 E-01-002 E-01-007	2#16, 1#16G	XHHW	ME-42	MCC-S1		JB-42	C204-2	PB-204	C204	SOUTH WREWAY	LOCK OUT STOP		
ME-42-C2	E-01-004 E-01-002 E-01-007	2#16, 1#16G	хннw	ME-42	MCC-S1		JB-42	C204-2	PB-204	C204	SOUTH WREWAY	SHEAR AND OVERTORQUE		
ME-43-P1	E-01-007 E-01-002 E-01-004	3#12, 1#12G	XHHW	MCC-S1	ME-43	SOUTH WIREWAY	C205	PB-204	C205-2	JB-43		480V POWER		
ME-43-P2	E-01-007 E-01-002 E-01-004	2#12, 1#12G	XHHW	MCC-S1	ME-43	SOUTH WIREWAY	C205	PB-204	C205-2	JB-43		120V HEATE		
ME-43-C1	E-01-004 E-01-002 E-01-007	2#16, 1#16G	XHHW	ME-43	MCC-S1		JB-43	C205-2	PB-204	C205	SOUTH WREWAY	LOCK OUT ST		
ME-43-C2	E-01-004 E-01-002 E-01-007	2#16, 1#16G	хннуу	ME-43	MCC-S1		JB-43	C205-2	PB-204	C205	SOUTH WREWAY	SHEAR AND OVERTORQU		
ME-44-P1	E-01-007 E-01-002 E-01-004	3#12, 1#12G	XHHW	MCC-S1	ME-44	SOUTH WIREWAY	C204	PB-204	C204-3	JB-44		480V POWE		
ME-44-P2	E-01-007 E-01-002 E-01-004	2#12, 1#12G	XHHW	MCC-S1	ME-44	SOUTH WIREWAY	C204	PB-204	C204-3	JB-44		120V HEATE		
ME-44-C1	E-01-004 E-01-002 E-01-007	2#16, 1#16G	XHHW	ME-44	MCC-S1		JB-44	C204-3	PB-204	C204	SOUTH WIREWAY	LOCK OUT ST		
ME-44-C2	E-01-004 E-01-002 E-01-007	2#16, 1#16G	XHHW	ME-44	MCC-S1		JB-44	C204-3	PB-204	C204	SOUTH WIREWAY	SHEAR AND OVERTORQU		
ME-45-P1	E-01-007 E-01-002 E-01-004	3#12, 1#12G	XHHW	MCC-S1	ME-45	SOUTH WIREWAY	C204	PB-204	C204-4	JB-45		480V POWE		
ME-45-P2	E-01-007 E-01-002 E-01-004	2#12, 1#12G	XHHW	MCC-S1	ME-45	SOUTH WIREWAY	C204	PB-204	C204-4	JB-45		120V HEATE		
ME-45-C1	E-01-004 E-01-002 E-01-007	2#16, 1#16G	XHHW	ME-45	MCC-S1		JB-45	C204-4	PB-204	C204	SOUTH WREWAY	LOCK OUT ST		
ME-45-C2	E-01-004 E-01-002 E-01-007	2#16, 1#16G	XHHW	ME-45	MCC-S1		JB-45	C204-4	PB-204	C204	SOUTH WIREWAY	SHEAR AND OVERTORQU		



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CABLE	DRAWING	COUNT/AWG	TYPE	FROM
	E-01-007			
ME-46-P1	E-01-002	3#12, 1#12G	XHHW	MCC-S1
	E-01-004			
	E-01-007			
ME-46-P1	E-01-002	2#12, 1#12G	XHHW	MCC-S1
	E-01-004			
	E-01-004			
ME-46-C1	E-01-002	2#16, 1#16G	XHHW	ME-46
	E-01-007			
	E-01-004			
ME-46-C2	E-01-002	2#16, 1#16G	XHHW	ME-46
	E-01-007			
	E-01-007			
ME-47-P1	E-01-002	3#12, 1#12G	XHHW	MCC-S1
	E-01-004			
	E-01-007			
ME-47-P2	E-01-002	2#12, 1#12G	XHHW	MCC-S1
	E-01-004			
	E-01-004			
ME-47-C1	E-01-002	2#16, 1#16G	XHHW	ME-47
	E-01-007			
	E-01-004			
ME-47-C2	E-01-002	2#16, 1#16G	XHHW	ME-47
	E-01-007			
	E-01-007			
ME-48-P1	E-01-002	3#12, 1#12G	XHHW	MCC-S1
	E-01-004			
	E-01-007			
ME-48-P2	E-01-002	2#12, 1#12G	XHHW	MCC-S1
	E-01-004			
	E-01-004			
ME-48-C1	E-01-002	2#16, 1#16G	XHHW	ME-48
	E-01-007			
	E-01-004			
ME-48-C2	E-01-002	2#16, 1#16G	XHHW	ME-48
	E-01-007			
	E-01-007			
ME-49-P1	E-01-002	3#12, 1#12G	XHHW	MCC-S1
	E-01-004			
	E-01-007			
ME-49-P2	E-01-002	2#12, 1#12G	XHHW	MCC-S1
	E-01-004	,		
	E-01-004			
ME-49-C1	E-01-002	2#16, 1#16G	XHHW	ME-49
	E-01-007			
	E-01-004			
ME-49-C2	E-01-002	2#16, 1#16G	XHHW	ME-49
	E-01-007			
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ME-49

ME-49

MCC-S1

MCC-S1

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TYPE	FROM	то			V	ΊA			REMARKS
XHHW	MCC-S1	ME-46	SOUTH WIREWAY	C205	PB-204	C205-3	JB-46		480V POWER
XHHW	MCC-S1	ME-46	SOUTH WIREWAY	C205	PB-204	C205-3	JB-46		120V HEATER
XHHW	ME-46	MCC-S1		JB-46	C205-3	PB-204	C205	SOUTH WIREWAY	LOCK OUT STOP
XHHW	ME-46	MCC-S1		JB-46	C205-3	PB-204	C205	SOUTH WIREWAY	SHEAR AND OVERTORQUE
хннw	MCC-S1	ME-47	SOUTH WIREWAY	C204	PB-204	C204-5	JB-47		480V POWER
XHHW	MCC-S1	ME-47	SOUTH WIREWAY	C204	PB-204	C204-5	JB-47		120V HEATER
XHHW	ME-47	MCC-S1		JB-47	C204-5	PB-204	C204	SOUTH WIREWAY	LOCK OUT STOP
XHHW	ME-47	MCC-S1		JB-47	C204-5	PB-204	C204	SOUTH WIREWAY	SHEAR AND OVERTORQUE
XHHW	MCC-S1	ME-48	SOUTH WIREWAY	C205	PB-204	C205-4	JB-48		480V POWER
XHHW	MCC-S1	ME-48	SOUTH WIREWAY	C205	PB-204	C205-4	JB-48		120V HEATER
XHHW	ME-48	MCC-S1		JB-48	C205-4	PB-204	C205	SOUTH WIREWAY	LOCK OUT STOP
XHHW	ME-48	MCC-S1		JB-48	C205-4	PB-204	C205	SOUTH WIREWAY	SHEAR AND OVERTORQUE

PB-204

PB-204

C204-6

C204-6

4

C204-6

C204-6

PB-204

PB-204

C204

C204

JB-49

JB-49

SOUTH

WIREWAY

SOUTH

WIREWAY

JB-49

JB-49

C204

C204

SOUTH

WIREWAY

SOUTH

WIREWAY

480V POWER

120V HEATER

LOCK OUT STOP

SHEAR AND

OVERTORQUE



		CONDUIT	SIZE FROM	СС	ONDUIT SCHEDULE CABLE	REMARKS	CONDUIT	SIZE	FROM	CO TO
D		NORTH WIREWAY	WIRE C214 WAY C215	MCC-N1 PANEL N	ME-30-P1 ME-35-P1 ME-30-P2 ME-35-P2 ME-30-C1 ME-35-C1 ME-30-C2 ME-35-C2 ME-31-P1 ME-36-P1 ME-31-C1 ME-36-P2 ME-31-C2 ME-36-C1 ME-31-C2 ME-36-C2 ME-31-C2 ME-36-C1 ME-32-P1 ME-36-C2 ME-32-P2 ME-37-P1 ME-32-C1 ME-37-C1 ME-32-C2 ME-37-C1 ME-33-P1 ME-38-P1 ME-33-P2 ME-38-P1 ME-33-P2 ME-38-P1 ME-33-P2 ME-38-P1 ME-33-P1 ME-38-P1 ME-33-P2 ME-38-P1 ME-34-P1 ME-39-P1 ME-34-P2 ME-39-P1 ME-34-C1 ME-39-C1 ME-34-C2 ME-39-C1	480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE	SOUTH WIREWAY	WIRE	C204 C205	MCC-S1 PANEL S
С		C214	2" NORTH WIREWAY		ME-30-P1 ME-30-P2 ME-30-C1 ME-33-P1 ME-30-C2 ME-33-P2 ME-31-P1 ME-33-C1 ME-31-P2 ME-33-C2 ME-31-C1 ME-34-P1 ME-32-P1 ME-34-C1 ME-32-P2 ME-34-C2 ME-32-C1 ME-34-C2 ME-32-C1 ME-34-C2 ME-32-C1 ME-34-C2	BASIN 3. 480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE	C204	2"	SOUTH WIREWAY	PB-204
		C214-1	1" PB-214	JB-30	ME-30-P1 ME-30-P2 ME-30-C1	480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE	C204-1	1"	PB-204	JB-40
		C214-2	1" PB-214	JB-31	ME-31-P1 ME-31-P2 ME-31-C1 ME-31-C2	480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE	C204-2	1"	PB-204	JB-42
_		C214-3	1" PB-214	JB-33	ME-33-P1 ME-33-P2 ME-33-C1	480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE	C204-3	1"	PB-204	JB-44
		C214-4	1" PB-214	JB-35	ME-35-P1 ME-35-P2 ME-35-C1 ME-35-C2	480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE	C204-4	1"	PB-204	JB-45
		C214-5	1" PB-214	JB-36	ME-36-P1 ME-36-P2 ME-36-C1	480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE	C204-5	1"	PB-204	JB-47
		C214-6	1" PB-214	JB-38	ME-38-P1 ME-38-P2 ME-38-C1	480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE	C204-6	1"	PB-204	JB-49
AM CAD USER: NATE ANDERSON		C215	2" NORTH WIREWAY	PB-214	ME-37-P1 ME-37-P2 ME-35-P1 ME-35-P2 ME-35-C1 ME-38-P1 ME-36-P1 ME-38-C1 ME-38-C1 ME-36-P2 ME-38-C2 ME-38-C2 ME-39-P1 ME-39-C1 ME-39-C1 ME-39-C2	BASIN 4. 480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE	C205	2"	SOUTH	PB-204
6/3/2022 8:51		C215-1	1" PB-214	JB-32	ME-32-P1 ME-32-P2 ME-32-C1 ME-32-C2	480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE				
OT DATE: (C215-2	1" PB-214	JB-34	ME-34-P1 ME-34-P2 ME-34-C1	480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE	C205-1	1"	PB-204	JB-41
ц С		C215-3	1" PB-214	JB-37	ME-37-P1 ME-37-P2 ME-37-C1	480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE	C205-2	1"	PB-204	JB-43
E-01-013.DW(C215-4	1" PB-214	JB-39	ME-37-C2 ME-39-P1 ME-39-P2 ME-39-C1	480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE	C205-3	1"	PB-204 PB-204	JB-46 JB-48

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J

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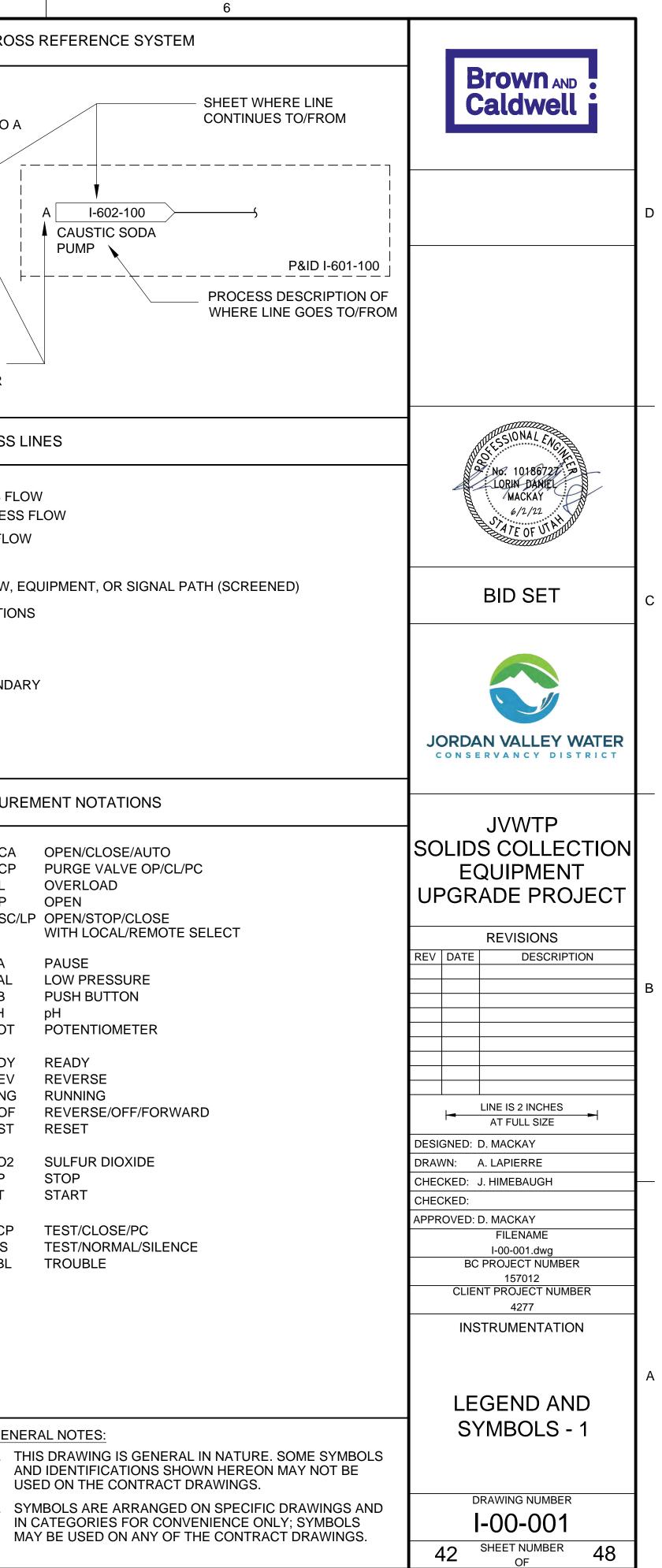
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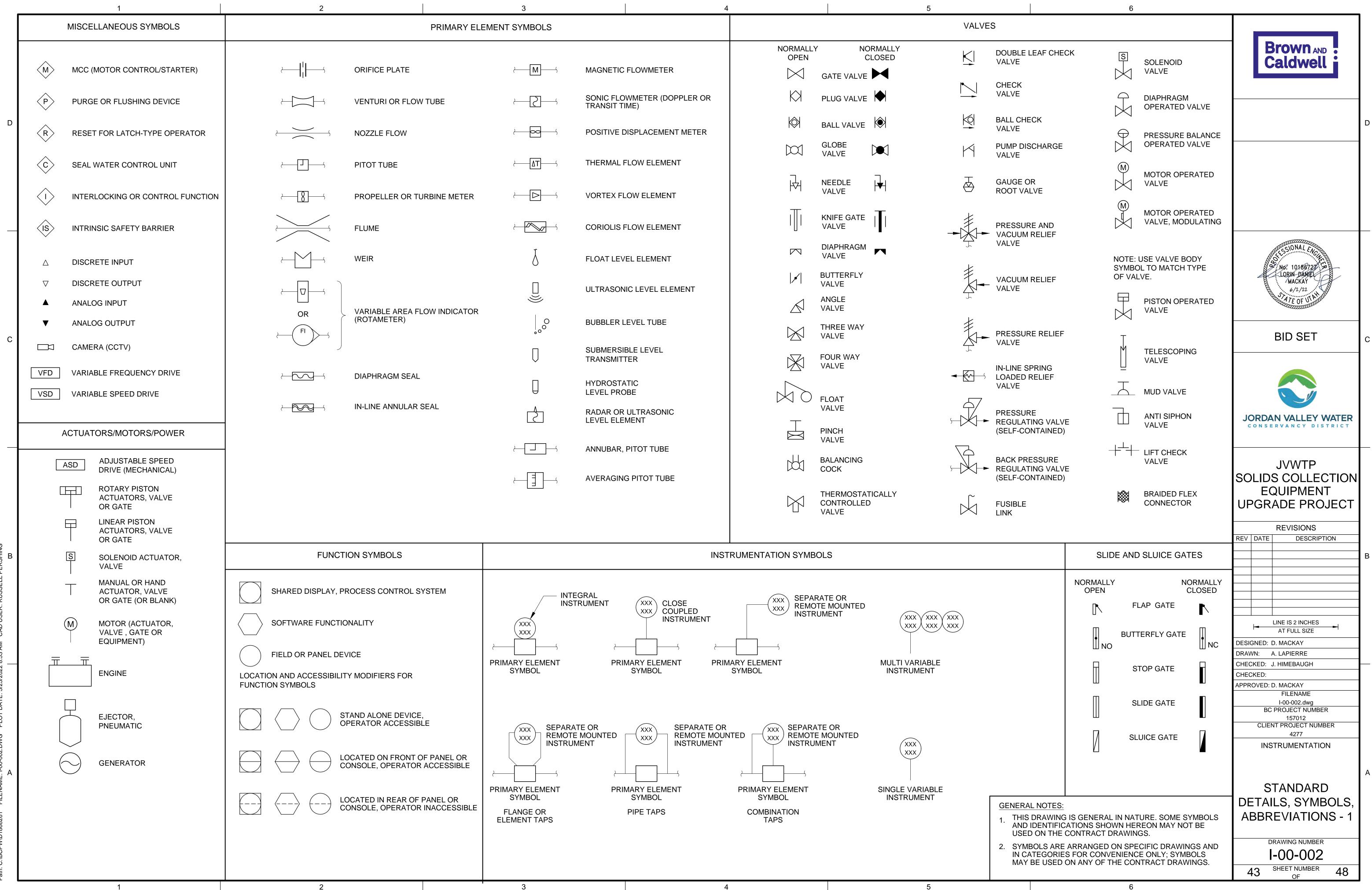
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CO	NDUIT SCHEDULE	=			
	CAE		REMARKS		
S1 _ S	ME-40-P1 ME-40-C1 ME-40-C2 ME-41-P1 ME-41-P2 ME-41-C1 ME-41-C2 ME-42-P1 ME-42-P2 ME-42-C1 ME-42-C2 ME-43-P1 ME-43-P2 ME-43-C1 ME-43-C2 ME-44-P1 ME-44-P2 ME-44-C1 ME-44-C2	ME-45-P1 ME-45-C1 ME-45-C2 ME-46-P1 ME-46-P2 ME-46-C1 ME-46-C2 ME-47-P1 ME-47-P2 ME-47-C1 ME-47-C2 ME-47-C2 ME-48-P1 ME-48-P2 ME-48-C2 ME-48-C2 ME-49-P1 ME-49-P2 ME-49-C1 ME-49-C2	480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE		
04	ME-40-P1 ME-40-C1 ME-40-C2 ME-41-P1 ME-41-P2 ME-41-C1 ME-41-C2 ME-42-P1 ME-42-P2 ME-42-C1 ME-42-C1 ME-42-C2	ME-43-P1 ME-43-P2 ME-43-C1 ME-43-C2 ME-44-P1 ME-44-P2 ME-44-C1 ME-44-C2	BASIN 5. 480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE		
0	ME-4 ME-4 ME-4	0-P2	480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE		
2	ME-4 ME-4 ME-4 ME-4	2-P2 2-C1	480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE		
4	ME-4 ME-4 ME-4 ME-4	4-P2 4-C1	480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE		
5	ME-4 ME-4 ME-4 ME-4	5-P2 5-C1	480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE		
7	ME-4 ME-4 ME-4	7-P2 7-C1	480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE		
9	ME-4 ME-4 ME-4 ME-4	9-P2 9-C1	480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE		
04	ME-45-P1 ME-45-P2 ME-45-C1 ME-45-C2 ME-46-P1 ME-46-P2 ME-46-C1 ME-46-C2 ME-47-P1 ME-47-P2 ME-47-C1 ME-47-C1	ME-48-P1 ME-48-P2 ME-48-C1 ME-48-C2 ME-49-P1 ME-49-P2 ME-49-C1 ME-49-C2	BASIN 6. 480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE		
1	ME-4 ME-4 ME-4	1-P2 1-C1	480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE		
3	ME-4 ME-4 <u>ME-4</u> ME-4	3-P2 3-C1 6-P1	480V POWER, 120V HEATER, LOS, SHEAR AND OVERTORQUE 480V POWER, 120V		
6	ME-4 ME-4		HEATER, LOS, SHEAR AND OVERTORQUE		
8	ME-4		480V POWER, 120V HEATER, LOS, SHEAR		



		FUNCTION	NAL IDENTIFICATION			INST	TRUMENT S	GNAL LINES		PROCE	ESS AND SIGNA	AL CRO
ARIABLE	MEASURED OR INITIATING VARIABLE DESCRIPTION	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER				WHEN A PR	OCESS LINE CROSSES FR	OM DRAWING TO	0
А	ANALYSIS		ALARM				_ INSTRU PROCES	MENT SUPPLY, SS TAPS		HE P&ID DRAWING NUMB D. AS AN EXAMPLE; A PR		
В	BURNER, COMBUSTION									SEPARATE P&ID, SEE BEL		
C		DIFFERENTIAL		CONTROL	CLOSE		- PNEUM	ATIC SIGNAL				1
	DENSITY, SPECIFIC GRAVITY	DIFFERENTIAL			DEVIATION		· —	(ICAL SIGNAL G OR DISCRETE)		(
E	VOLTAGE, SOLENOID FLOW, FLOW RATE	RATIO	PRIMARY ELEMENT				·			,	I-601-100	
G	FIRE, SMOKE	RATIO	GLASS			$\diamond\diamond$		JS (DEVICENET NDATION)		S	TORAGE TANK	i
H	HAND				HIGH	V	CAPILLA	RY TUBE OR	P&ID I-602-10	00		/
I	CURRENT		INDICATE				FILLED	SYSTEM		ESCRIPTION OF E GOES TO/FROM		
J	POWER		SCAN			$ \sim$ $ \sim$ $-$				GOES TO/FROM		
K	TIME, SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION			SONICS	SIGNAL (GUIDED)	IF THERE AF	RE MULTIPLE LINES CROS	SING THE SAME	TWO
L	LEVEL		LIGHT		LOW	\sim \sim		OMAGNETIC OR SIGNAL (UNGUIDED)		NGS. IT IS ACCEPTABLE T		
М	MOISTURE, HUMIDITY,	MOMENTARY			MIDDLE, INTERMEDIATE							
	MOTION					OO	– SOFTW/	ARE OR DATA LINK			PR	OCESS
N	EQUIPMENT STATUS					(•)(•)	– MECHA	NICAL LINK				
0 P					OPEN						N PRIMARY PRO	CESS F
Q P	PRESSURE, VACUUM QUANTITY	INTEGRATE,	POINT (TEST) CONNECTIC	⁷¹ N		<u> </u>	– HYDRA	JLIC			W SECONDARY F	
<u> </u>		TOTALIZE									W UTILITY PROC	ESS FL
R	RADIATION	_	RECORD		RUN	ES	- VAC 60 H	C POWER SUPPLY 120 IZ UNLESS OTHERWISE				
S 	SPEED, FREQUENCY	SAFETY		SWITCH	STOP	/		(e.g. ES-480 VAC)		11		
						SA				11	W/EXISTING CON	
U V	MULTIVARIABLE VIBRATION, MECHANICAL		MULTIFUNCTION	MULTIFUNCTION			OLIVIOL				MPORARY PIPINO	ز
V	ANALYSIS			LOUVER			INSTRUM	IENT QUALITY AIR			OCESS AREA	BOUNI
W	WEIGHT, FORCE, TORQUE		WELL, PROBE				SUPPLY					200112
X	UNCLASSIFIED	X AXIS				>						
Y	EVENT, STATE OR PRESENCE	Y AXIS		AUXILIARY DEVICES		C2	- WATER S	SUPPLY C1, C2, C3,ETC.				
Z	POSITION, DIMENSION	Z AXIS		DRIVER,				T IDENTIFICATION		C	ONTROL AND M	
-		27000		ACTUATOR, FINAL CONTROL		I TPICAL I		TIDENTIFICATION				
				ELEMENT					ACK	ACKNOWLEDGE		OC
	IN	STRUMENT TAG	G AND LOOP IDENTIFICA	ΓΙΟΝ				- PANEL LOCATION #	AM	AUTO/MAN		OCF OL
								- FUNCTIONAL IDENTIFICATION	BYP	BYPASS		OP
				— MEASURED OR	INITIATING VARIABLE		/	- CONTROL AND MEASUREMENT	CL CL2	CLOSE CHLORINE		OS
					IEN REQUIRED			NOTATIONS #	CMAT	COMPUTER/MANUAL/A	UTO/TRACKING	PA
				— SUCCEEDING L	ETTERS, - READOUT OR	LP2	< dó		COMB CP	COMBUSTIBLE GAS		PA
				PASSIVE FUNC OR MODIFIER	TION, OUTPUT FUNCTION,	F ¹²³⁴⁻¹		- FUNCTION SYMBOL	COND	CONDUCTIVITY		PB pH
			LOOP NUMBER NSTRUMENT						DEC			PO
			OPTIONAL)					— PART OF VENDOR PACKAGE	DO	DISSOLVED OXYGEN		RD
	PDIT-	1 2 3	4 - 1 A				\	LOOP NUMBER	ESP	EMERGENCY STOP		RE\ RN(
								# = OPTIONAL	FWD	FORWARD FORWARD/REVERSE		RO RS ⁻
IN	ISTRUMENT FUNCTIONAL IDENTIFICATION PER			# - ALPHABETIC INSTRUMENTS	CAL IDENTIFIER FOR LIKE	NETWORK T	YPE		F/R F/S	FORWARD/REVERSE FAST/SLOW		
	TABLE THIS SHEET				ENTIFIER FOR SIMILAR	F FOUNDATION	N FIELDBUS					SO SP
				INSTRUMENTS OR LOOP	IN RELATED PROCESSES	D DEVICENET E ETHERNET			HLOA HOA	HIGH/LOW/OFF/AUTO HAND/OFF/AUTO		ST
					ER ON SHEET	P PROFIBUS			HOAL HOR	HAND/OFF/AUTO/LOCA HAND/OFF/REMOTE	L	тс
					WHICH LOOP BELONGS	PN PROFINET M-RTU MODBUS RTU						T/S TBI
			PDIT			M-TCP MODBUS TCF			INC	INCREASE		
			1234-1A # OPTIONAL			CIP CONTROL INI PROTOCOL	DUSTRIAL		JOA	JOG/OFF/AUTO		
						E-SNMP SIMPLE NETV			LL	LEAD/LAG		
		EQUIPMENT II	DENTIFICATION SYSTEM	Л		MANAGEMEN	NI PROTOCO	_	LOR LOS L/R	LOCAL/OFF/REMOTE LOCKOUT STOP LOCAL/REMOTE		
	AERATION BLOWE	₹1 •────	EQUIPMENT N						Μ/ΔΙ<	MAN/AUTO LOADING ST	ΓΑΤΙΟΝ	
		√1	EQUIPMENT I									GE
	SPEC: 11486			ON REFERENCE								1.
	PER \prec Q: 1500 SCFM		CAPACITY RA	TING								
	PROJECT HEAD: 5.5 PSIG)		PRESSURE RATING								2.
	HP: 50 ●		MOTOR POW	ER	I							





	1		2			3		4		ξ	5	6
			PIPI	NG SYSTEMS								
ABBREVI	IATION SERVICE		ABBREVIATION SE	RVICE		ABBREVIAT	TION SERVICE	E				
А	AERATION AIR			SOLINE		SCR	STEAM	CLEAN RINSE				
AA AFE	AGITATION AIR AIR FLOTATION EFFLUENT			S VAPOR RETURN	J	SCS						
AL	ALUM		GC GA GR GF			SD SDG		RY DRAIN DIOXIDE GAS				
AW	APPLIED WATER					SDL		DIOXIDE LIQUID				
			_	GH PRESSURE HY		SDS		DIOXIDE SOLUTION				
BA BA	BRINE BACKWASH AIR			AT RESERVOIR R		SDV SE		R DIOXIDE VACUUM DARY EFFLUENT				
BC	BIOFILTER CIRCULATION				TABLE HOT WATER	SEP	SEPTAG					
BCTL	BOILER CHEMICAL TREATMENT	-		GH PRESSURE SL		SN	SUPERN	IATANT				
BCTM BDL	BOILER CHEMICAL TREATMENT BOILER BLOWDOWN, LOW PRES	-		TABLE HOT WATE	R HEATING RETURN	SS		DARY SLUDGE				
BDM	BOILER BLOWDOWN, MEDIUM P				HEATING SUPPLY	SSC STA	STARTI	DARY SCUM NG AIR				
BFE	BIOFILTER EFFLUENT					STD	STORM	DRAIN				
BFL BFM	BIOFILTER FEEDWATER, LOW P BIOFILTER FEEDWATER, MEDIU		IA INS	STRUMENT AIR		STML						
BFW	BACKWASH WATER	WIFRESSORE	JWR JA	CKET WATER RET	URN	STMM	STEAM,	MEDIUM PRESSURE				
				CKET WATER SUP		TD	TANK DI	RAIN				
CCW	CONDENSER COOLING WATER					TE		NER EFFLUENT				
CD CEN	CHEMICAL DRAIN CENTRATE			BE OIL RETURN BE OIL SUPPLY		THS						
CF	CENTRIFUGE FEED		LOW LU	BE OIL WASTE		TO TS		NER OVERFLOW ER SLUDGE				
CL	CONDENSATE, LOW PRESSURE			W PRESSURE SLU	IDGE GAS	TSC	THICKE	NED SCUM				
CLG CLL	CHLORINE GAS CHLORINE LIQUID		MG MI	XED GAS		TWAS	THICKE	NED WASTE ACTIVATED SLUDGE	E			
CLS	CHLORINE SOLUTION			XED GAS XED LIQUOR		V	VENT					
CLV	CHLORINE VACUUM		MS MI	XED SLUDGE		VA	VACUUN	Λ				
CM CS	CONDENSATE, MEDIUM PRESSU CIRCULATING SLUDGE	JRE		DIUM PRESSURE		VC		ALVENT				
CSO	CAUSTIC SODA				JRE HEATING RETURN JRE HEATING SUPPLY	VP VSL		EUM VENT /ENT, LOW PRESSURE				
CWR	CHILLED WATER RETURN					VSM		/ENT, MEDIUM PRESSURE				
CWS	CHILLED WATER SUPPLY		NG NA	TURAL GAS								
D	DRAIN		OF OV	'ERFLOW		WAS WML		ACTIVATED SLUDGE MIXED LIQUOR				
DIW	DEIONIZED WATER			YGEN LOW PRES	SURE		WASTE	MIXED EIGOOR				
DS	DIGESTED SLUDGE					1W		E WATER (CITY WATER)				
DSF DSS	DIESEL FUEL SCREENED DIGESTED SLUDGE			MPED DRAINAGE IMARY EFFLUENT		1WS	POTABL	E SOFT WATER				
DW	DISTILLED WATER			LYMER		2W	NONPO	ABLE CITY WATER				
			PS PR	IMARY SLUDGE		2WHP		ATER HIGH PRESSURE				
EE ES	ENGINE EXHAUST EQUALIZED SLUDGE		PSC PR	IMARY SCUM		2WL						ال.
LO			RAS RE	TURN ACTIVATED	SLUDGE	2WS	SOFTEN	ED NONPOTABLE CITY WATER				
F	FLOAT		RS RA	W SEWAGE		3W	NO.3 WA	TER (SECONDARY EFFLUENT)				
FA FC	FOUL AIR FERRIC CHLORIDE			W WATER		3WHP		ATER HIGH PRESSURE	A.T.E.D.			
FLT	FILTRATE			CLAIMED WATER		3WLC 3WLP		ATER LOW PRESSURE CHLORINA ⁻ ATER LOW PRESSURE	ATED			
FS	FLOTATION SLUDGE					3WS		PRAY WATER				SC
FW	FILTERED WATER			RVICE AIR	-							
			50K 51	EAM CLEAN RINSI	<u> </u>							UF
			EQUIPI	MENT PREFIXES								
А	AERATOR	EB	ENGINE BLOWER MODULE	MOP	MOTOR OPERAT	OR	TFR	TRANSFORMER				REV
ACC ACU			ENGINE GENERATOR MOD			R PANEL	TM					\vdash
ACU AD	AIR CONDITIONING UNIT AIR DRYER	EPR	EVAPORATOR	MUX MX	MULTIPLEXER MIXER		TRS	TRANSFER SWITCH				
AF	AIR FILTER		FAN	MZ		Г	UH	UNIT HEATER				
AHC	AIR HANDLING UNIT W/COIL		FLOCCULATOR	0.57			US	UTILITY STATION				
AHU ASC	AIR HANDLING UNIT ADJUSTABLE SPEED CONTROL		FILTER FILTER PRESS	ORT	ODOR REMOVAL	IOWER	VEN	VENTILATOR				
ASC	ADJUSTABLE SPEED CONTROL ADJUSTABLE SPEED DRIVE		FLUID POWER UNIT	Р	PUMP		VP	VACUUM PUMP				
ATS	AUTOMATIC TRANSFER SWITCH		FURNACE	PBD	PANELBOARD, E	LECTRICAL						
							WH WHD					
BFP	BLOWER BELT FILTER PRESS		GENERATOR GRINDER	PC	AND BRANCH CI PROCESS OR PE		WHR WSR	WASHER WATER SOFTENER UNIT				DESI
BLR	BOILER		GATE		COMPUTER							DRA
BNR		Ц	LOIST	PEJ								CHE
BP BSN	BACKFLOW PREVENTER BAR SCREEN		HOIST HEAT EXCHANGER	PLC	PROGAMMABLE CONTROLLER							CHE
		HOP	HYDRAULIC OPERATOR	PNL	PANEL							APPF
C				POP								
CDR CFR	CONDENSOR CHEMICAL FEEDER		HYDRAULIC POWER UNIT HEATER	PVL	PRESSURE VESS	JEL						
CHR	CHILLER	HTT	HEAT TRACER TAPE	REC	RECEIVER							
COL	COLLECTOR	HV	HAND OPERATED VALVE									
COM CON	COMMINUTOR CONVEYOR	INJ	INJECTOR	SCN SCR	SCREEN (BAR, E SCRUBBER	. I.C.)						
CP	COMPRESSOR			SEP	SEPARATOR							
CRN	CRANE		LOCK OUT STOP (SWITCH)	SLR	SILENCER							
CTF CV	CENTRIFUGE CONTROL VALVE	LVR	LOUVER	SMP SS	SAMPLER SAND SEPARATO)R						
CYL	CYLINDER	Μ	MOTOR	ST	SAND SEPARATO							
1			MOTOR CONTROL CENTER	SUB	SUBSTATION							

ABBREVIATION	SERVICE		ABBREVIATION	SERVICE			ABBREVIATION	SERVICE	
A	AERATION AIR		GAS	GASOLIN			-		
AA	AGITATION AIR		GAV				SCR SCS		CLEAN RINSE CLEAN SUPPLY
AFE	AIR FLOTATION EFFLUENT		GC		CULATION		SD SD	SANITAR	
AL	ALUM		GR	GRIT			SDG		DIOXIDE GAS
AW	APPLIED WATER						SDL		DIOXIDE LIQUID
В	BRINE		HOH		ESSURE HYDRAL		SDS		DIOXIDE SOLUTION
BA	BACKWASH AIR		HRR HRS		SERVOIR RETUR SERVOIR SUPPL		SDV SE		R DIOXIDE VACUUM ARY EFFLUENT
BC	BIOFILTER CIRCULATION		HRW		JLATING POTABL		SEP	SECOND	
BCTL	BOILER CHEMICAL TREATMENT,	LOW PRESSURE	HSG		ESSURE SLUDGE		SN	SUPERN	
BCTM	BOILER CHEMICAL TREATMENT,				E HOT WATER		SS	SECOND	ARY SLUDGE
BDL	BOILER BLOWDOWN, LOW PRES		HWR	-	IPERATURE HEA		SSC		ARY SCUM
BDM BFE	BOILER BLOWDOWN, MEDIUM PF BIOFILTER EFFLUENT	RESSURE	HWS	LOW IEN	IPERATURE HEA	TING SUPPLY	STA	STARTIN	
BFL	BIOFILTER FEEDWATER, LOW PR	RESSURE	IA	INSTRUM	IENT AIR		STD STML	STORM D	LOW PRESSURE
BFM	BIOFILTER FEEDWATER, MEDIUM						STMM		MEDIUM PRESSURE
BW	BACKWASH WATER		JWR	JACKET	WATER RETURN			- · _/, ·	
0.014			JWS	JACKET	WATER SUPPLY		TD	TANK DR	
CCW	CONDENSER COOLING WATER						TE		
CD CEN	CHEMICAL DRAIN CENTRATE		LOR LOS		. RETURN . SUPPLY		THS		
CF	CENTRIFUGE FEED		LOW	LUBE OIL			TO TS		IER OVERFLOW ER SLUDGE
CL	CONDENSATE, LOW PRESSURE		LSG		ESSURE SLUDGE	GAS	TSC		IED SCUM
CLG	CHLORINE GAS						TWAS		IED WASTE ACTIVATED SLUDGE
CLL	CHLORINE LIQUID		MG	MIXED G					
CLS			ML	MIXED LI			V	VENT	
CLV CM	CHLORINE VACUUM CONDENSATE, MEDIUM PRESSU	IRE	MS MSG	MIXED SI	LUDGE PRESSURE SLUD		VA	VACUUM	
CM	CONDENSATE, MEDIUM PRESSU CIRCULATING SLUDGE		MSG			HEATING RETURN	VC VP		AL VENT EUM VENT
CSO	CAUSTIC SODA		MTWS	_	-	HEATING SUPPLY	VP VSL		EUM VENT
CWR	CHILLED WATER RETURN					- · · - ·	VSL		ENT, MEDIUM PRESSURE
CWS	CHILLED WATER SUPPLY		NG	NATURA	L GAS			 / .101 V	,
D							WAS		ACTIVATED SLUDGE
D DIW	DRAIN DEIONIZED WATER		OF OLP		OW LOW PRESSURE	:	WML	WASTE N	AIXED LIQUOR
DS	DIGESTED SLUDGE			UNIGEN	LOW FRESSURE	-	1W		E WATER (CITY WATER)
DSF	DIESEL FUEL		PD	PUMPED	DRAINAGE		1WS		E SOFT WATER
DSS	SCREENED DIGESTED SLUDGE		PE	PRIMARY	/ EFFLUENT			I OINDEE	
DW	DISTILLED WATER		POL	POLYME			2W	NONPOT	ABLE CITY WATER
			PS		SLUDGE		2WHP	-	TER HIGH PRESSURE
EE			PSC	PRIMARY	SCUM		2WL		
ES	EQUALIZED SLUDGE		RAS		ACTIVATED SLU	DGE	2WS	SOFTENE	ED NONPOTABLE CITY WATER
F	FLOAT		RS	RAW SEV		DGE	3W		TER (SECONDARY EFFLUENT)
FA	FOUL AIR		RW	RAW WA			3WHP		ATER HIGH PRESSURE
FC	FERRIC CHLORIDE		RWP	RAINWA	FER PIPE		3WLC		TER LOW PRESSURE CHLORINAT
FLT	FILTRATE		RWR	RECLAIN	IED WATER		3WLP	NO. 3 WA	ATER LOW PRESSURE
FS	FLOTATION SLUDGE						3WS	NO. 3 SPI	RAY WATER
	FILTERED WATER		SA	SERVICE					
FW			ISCR		LEAN RINSE				
Γ V V			SCR FOI		PREFIXES				
I - VV					PREFIXES		I		
 A	AERATOR	EB		UIPMENT		MOTOR OPERATO	DR	TFR	TRANSFORMER
A ACC	AIR CONDITION COIL	EG	EQ ENGINE BLOWER MOD ENGINE GENERATOR M		PREFIXES MOP MSP	MOTOR STARTER	R PANEL	ТМ	TIMER
A ACC ACU	AIR CONDITION COIL AIR CONDITIONING UNIT	EG	EQ ENGINE BLOWER MOD		PREFIXES MOP MSP MUX	MOTOR STARTER MULTIPLEXER	R PANEL		
A ACC ACU AD	AIR CONDITION COIL AIR CONDITIONING UNIT AIR DRYER	EG EPR	EQ ENGINE BLOWER MOD ENGINE GENERATOR M EVAPORATOR		PREFIXES MOP MSP MUX MX	MOTOR STARTER MULTIPLEXER MIXER	R PANEL	TM TRS	TIMER TRANSFER SWITCH
A ACC ACU AD AF	AIR CONDITION COIL AIR CONDITIONING UNIT AIR DRYER AIR FILTER	EG EPR F	EQ ENGINE BLOWER MOD ENGINE GENERATOR M EVAPORATOR FAN		PREFIXES MOP MSP MUX	MOTOR STARTER MULTIPLEXER	R PANEL	TM TRS JH	TIMER TRANSFER SWITCH UNIT HEATER
A ACC ACU AD AF AHC	AIR CONDITION COIL AIR CONDITIONING UNIT AIR DRYER	EG EPR F FLC	EQ ENGINE BLOWER MOD ENGINE GENERATOR M EVAPORATOR		PREFIXES MOP MSP MUX MX	MOTOR STARTER MULTIPLEXER MIXER	PANEL	TM TRS	TIMER TRANSFER SWITCH
A ACC ACU AD AF AHC AHU	AIR CONDITION COIL AIR CONDITIONING UNIT AIR DRYER AIR FILTER AIR HANDLING UNIT W/COIL	EG EPR F FLC FLT	EQ ENGINE BLOWER MOD ENGINE GENERATOR M EVAPORATOR FAN FLOCCULATOR		PREFIXES MOP MSP MUX MX MZ	MOTOR STARTER MULTIPLEXER MIXER MULTIZONE UNIT	R PANEL	TM TRS JH JS VEN	TIMER TRANSFER SWITCH UNIT HEATER
A ACC ACU AD AF AHC AHU ASC ASD	AIR CONDITION COIL AIR CONDITIONING UNIT AIR DRYER AIR FILTER AIR HANDLING UNIT W/COIL AIR HANDLING UNIT ADJUSTABLE SPEED CONTROL ADJUSTABLE SPEED DRIVE	EG EPR F FLC FLT FP FPU	EQUENCINE BLOWER MODIENGINE GENERATOR NEVAPORATOR FAN FLOCCULATOR FILTER FILTER PRESS FLUID POWER UNIT		PREFIXES MOP MSP MUX MX MZ ORT P	MOTOR STARTER MULTIPLEXER MIXER MULTIZONE UNIT ODOR REMOVAL PUMP	R PANEL	TM TRS JH JS	TIMER TRANSFER SWITCH UNIT HEATER UTILITY STATION
A ACC ACU AD AF AHC AHU ASC ASD	AIR CONDITION COIL AIR CONDITIONING UNIT AIR DRYER AIR FILTER AIR HANDLING UNIT W/COIL AIR HANDLING UNIT ADJUSTABLE SPEED CONTROL	EG EPR F FLC FLT FP	EQ ENGINE BLOWER MOD ENGINE GENERATOR M EVAPORATOR FAN FLOCCULATOR FILTER FILTER PRESS		PREFIXES MOP MSP MUX MX MZ ORT	MOTOR STARTER MULTIPLEXER MIXER MULTIZONE UNIT ODOR REMOVAL PUMP PANELBOARD, EL	R PANEL	TM TRS JH JS VEN VP	TIMER TRANSFER SWITCH UNIT HEATER UTILITY STATION VENTILATOR VACUUM PUMP
A ACC ACU AD AF AHC AHU ASC ASD ATS	AIR CONDITION COIL AIR CONDITIONING UNIT AIR DRYER AIR FILTER AIR HANDLING UNIT W/COIL AIR HANDLING UNIT ADJUSTABLE SPEED CONTROL ADJUSTABLE SPEED DRIVE AUTOMATIC TRANSFER SWITCH	EG EPR FLC FLT FP FPU FUR	EQ ENGINE BLOWER MOD ENGINE GENERATOR M EVAPORATOR FAN FLOCCULATOR FILTER FILTER PRESS FLUID POWER UNIT FURNACE		PREFIXES MOP MSP MUX MX MZ ORT P	MOTOR STARTER MULTIPLEXER MIXER MULTIZONE UNIT ODOR REMOVAL PUMP PANELBOARD, EL LIGHTING	R PANEL	TM TRS JH JS VEN VP	TIMER TRANSFER SWITCH UNIT HEATER UTILITY STATION VENTILATOR VACUUM PUMP WATER HEATER
A ACC ACU AD AF AHC AHU ASC ASD ATS B	AIR CONDITION COIL AIR CONDITIONING UNIT AIR DRYER AIR FILTER AIR HANDLING UNIT W/COIL AIR HANDLING UNIT ADJUSTABLE SPEED CONTROL ADJUSTABLE SPEED DRIVE AUTOMATIC TRANSFER SWITCH BLOWER	EG EPR FLC FLT FP FPU FUR GEN	EQ ENGINE BLOWER MOD ENGINE GENERATOR M EVAPORATOR FAN FLOCCULATOR FILTER FILTER PRESS FLUID POWER UNIT FURNACE GENERATOR		PREFIXES MOP MSP MUX MZ ORT P PBD	MOTOR STARTER MULTIPLEXER MIXER MULTIZONE UNIT ODOR REMOVAL PUMP PANELBOARD, EL LIGHTING AND BRANCH CIR	PANEL	TM TRS JH JS VEN VP WH	TIMER TRANSFER SWITCH UNIT HEATER UTILITY STATION VENTILATOR VACUUM PUMP WATER HEATER WASHER
A ACC ACU AD AF AHC AHU ASC ASD ATS B BFP	AIR CONDITION COIL AIR CONDITIONING UNIT AIR DRYER AIR FILTER AIR HANDLING UNIT W/COIL AIR HANDLING UNIT ADJUSTABLE SPEED CONTROL ADJUSTABLE SPEED DRIVE AUTOMATIC TRANSFER SWITCH BLOWER BELT FILTER PRESS	EG EPR F FLC FLT FP FPU FUR GEN GDR	EQ ENGINE BLOWER MOD ENGINE GENERATOR M EVAPORATOR FAN FLOCCULATOR FILTER FILTER PRESS FLUID POWER UNIT FURNACE GENERATOR GRINDER		PREFIXES MOP MSP MUX MX MZ ORT P	MOTOR STARTER MULTIPLEXER MIXER MULTIZONE UNIT ODOR REMOVAL PUMP PANELBOARD, EL LIGHTING AND BRANCH CIR PROCESS OR PER	PANEL	TM TRS JH JS VEN VP	TIMER TRANSFER SWITCH UNIT HEATER UTILITY STATION VENTILATOR VACUUM PUMP WATER HEATER
A ACC ACU AD AF AHC AHU ASC ASD ATS 3 3 5 5 7 8 3 1 R	AIR CONDITION COIL AIR CONDITIONING UNIT AIR DRYER AIR FILTER AIR HANDLING UNIT W/COIL AIR HANDLING UNIT ADJUSTABLE SPEED CONTROL ADJUSTABLE SPEED DRIVE AUTOMATIC TRANSFER SWITCH BLOWER	EG EPR FLC FLT FP FPU FUR GEN	EQ ENGINE BLOWER MOD ENGINE GENERATOR M EVAPORATOR FAN FLOCCULATOR FILTER FILTER PRESS FLUID POWER UNIT FURNACE GENERATOR		PREFIXES MOP MSP MUX MZ ORT P PBD	MOTOR STARTER MULTIPLEXER MIXER MULTIZONE UNIT ODOR REMOVAL PUMP PANELBOARD, EL LIGHTING AND BRANCH CIR	R PANEL	TM TRS JH JS VEN VP WH	TIMER TRANSFER SWITCH UNIT HEATER UTILITY STATION VENTILATOR VACUUM PUMP WATER HEATER WASHER
A ACC ACU AD AF AHC AHU ASC ASD ATS B BFP BLR BNR	AIR CONDITION COIL AIR CONDITIONING UNIT AIR DRYER AIR FILTER AIR HANDLING UNIT W/COIL AIR HANDLING UNIT ADJUSTABLE SPEED CONTROL ADJUSTABLE SPEED DRIVE AUTOMATIC TRANSFER SWITCH BLOWER BELT FILTER PRESS BOILER	EG EPR F FLC FLT FP FPU FUR GEN GDR	EQ ENGINE BLOWER MOD ENGINE GENERATOR M EVAPORATOR FAN FLOCCULATOR FILTER FILTER PRESS FLUID POWER UNIT FURNACE GENERATOR GRINDER		PREFIXES MOP MSP MUX MZ ORT PBD PC	MOTOR STARTER MULTIPLEXER MIXER MULTIZONE UNIT ODOR REMOVAL PUMP PANELBOARD, EL LIGHTING AND BRANCH CIR PROCESS OR PER COMPUTER	ECTRICAL RCUIT RSONAL	TM TRS JH JS VEN VP WH	TIMER TRANSFER SWITCH UNIT HEATER UTILITY STATION VENTILATOR VACUUM PUMP WATER HEATER WASHER
A ACC ACU AD AF AHC AHU ASC ASD ATS B BFP BLR BNR BNR BP	AIR CONDITION COIL AIR CONDITIONING UNIT AIR DRYER AIR FILTER AIR HANDLING UNIT W/COIL AIR HANDLING UNIT ADJUSTABLE SPEED CONTROL ADJUSTABLE SPEED DRIVE AUTOMATIC TRANSFER SWITCH BLOWER BELT FILTER PRESS BOILER BURNER	EG EPR F FLC FLT FP FPU FUR GEN GDR GT H HEX	EQ ENGINE BLOWER MOD ENGINE GENERATOR M EVAPORATOR FAN FLOCCULATOR FILTER FILTER PRESS FLUID POWER UNIT FURNACE GENERATOR GRINDER GATE HOIST HEAT EXCHANGER	UIPMENT ULE MODULE	PREFIXES MOP MSP MUX MZ ORT ORT PBD PC PEJ PLC	MOTOR STARTER MULTIPLEXER MIXER MULTIZONE UNIT ODOR REMOVAL PUMP PANELBOARD, EL LIGHTING AND BRANCH CIR PROCESS OR PER COMPUTER PNEUMATIC EJEC PROGAMMABLE L CONTROLLER	ECTRICAL RCUIT RSONAL	TM TRS JH JS VEN VP WH	TIMER TRANSFER SWITCH UNIT HEATER UTILITY STATION VENTILATOR VACUUM PUMP WATER HEATER WASHER
A ACC ACU AD AF AHC AHU ASC ASD ATS B BFP BLR BNR BNR BNR BNR BNR BNR BNR	AIR CONDITION COIL AIR CONDITIONING UNIT AIR DRYER AIR FILTER AIR HANDLING UNIT W/COIL AIR HANDLING UNIT ADJUSTABLE SPEED CONTROL ADJUSTABLE SPEED DRIVE AUTOMATIC TRANSFER SWITCH BLOWER BELT FILTER PRESS BOILER BURNER BACKFLOW PREVENTER BAR SCREEN	EG EPR F FLC FLT FP FPU FUR GEN GDR GT H HEX HOP	EQ ENGINE BLOWER MOD ENGINE GENERATOR M EVAPORATOR FAN FLOCCULATOR FILTER FILTER PRESS FLUID POWER UNIT FURNACE GENERATOR GRINDER GATE HOIST HEAT EXCHANGER HYDRAULIC OPERATOR	UIPMENT ULE MODULE	PREFIXES MOP MSP MUX MZ ORT PBD PC PEJ PLC PNL	MOTOR STARTER MULTIPLEXER MIXER MULTIZONE UNIT ODOR REMOVAL PUMP PANELBOARD, EL LIGHTING AND BRANCH CIR PROCESS OR PER COMPUTER PNEUMATIC EJEC PROGAMMABLE L CONTROLLER PANEL	R PANEL	TM TRS JH JS VEN VP WH	TIMER TRANSFER SWITCH UNIT HEATER UTILITY STATION VENTILATOR VACUUM PUMP WATER HEATER WASHER
A ACC ACU AD AF AHC AHU ASC ASD ATS B BFP BLR BNR BNR BP BSN C	AIR CONDITION COIL AIR CONDITIONING UNIT AIR DRYER AIR FILTER AIR HANDLING UNIT W/COIL AIR HANDLING UNIT ADJUSTABLE SPEED CONTROL ADJUSTABLE SPEED DRIVE AUTOMATIC TRANSFER SWITCH BLOWER BELT FILTER PRESS BOILER BURNER BACKFLOW PREVENTER BAR SCREEN	EG EPR F FLC FLT FP FPU FUR GEN GDR GT H HEX HOP HP	EQ ENGINE BLOWER MOD ENGINE GENERATOR M EVAPORATOR FAN FLOCCULATOR FILTER FILTER PRESS FLUID POWER UNIT FURNACE GENERATOR GRINDER GATE HOIST HEAT EXCHANGER HYDRAULIC OPERATOR HEAT PUMP	UIPMENT ULE MODULE	PREFIXES MOP MSP MUX MZ ORT PBD PC PEJ PLC PNL POP	MOTOR STARTER MULTIPLEXER MIXER MULTIZONE UNIT ODOR REMOVAL PUMP PANELBOARD, EL LIGHTING AND BRANCH CIR PROCESS OR PER COMPUTER PNEUMATIC EJEC PROGAMMABLE L CONTROLLER PANEL PNEUMATIC OPER	R PANEL	TM TRS JH JS VEN VP WH	TIMER TRANSFER SWITCH UNIT HEATER UTILITY STATION VENTILATOR VACUUM PUMP WATER HEATER WASHER
A ACC ACU AD AF AHC AHU ASC ASD ATS 3 BFP BLR BNR BNR BNR BNR BNR BNR BNR BNR BNR BN	AIR CONDITION COIL AIR CONDITIONING UNIT AIR DRYER AIR FILTER AIR HANDLING UNIT W/COIL AIR HANDLING UNIT ADJUSTABLE SPEED CONTROL ADJUSTABLE SPEED DRIVE AUTOMATIC TRANSFER SWITCH BLOWER BELT FILTER PRESS BOILER BURNER BACKFLOW PREVENTER BAR SCREEN COIL CONDENSOR	EG EPR F FLC FLT FP FPU FUR GEN GDR GDR GT H HEX HOP HP HPU	EQUENCIAL EXAMPLE EQUENCIAL ENGINE BLOWER MODUENGINE GENERATOR NEVAPORATOR FAN FLOCCULATOR FILTER FILTER PRESS FLUID POWER UNIT FURNACE GENERATOR GRINDER GATE HOIST HEAT EXCHANGER HYDRAULIC OPERATOR HEAT PUMP HYDRAULIC POWER UN	UIPMENT ULE MODULE	PREFIXES MOP MSP MUX MZ ORT PBD PC PEJ PLC PNL	MOTOR STARTER MULTIPLEXER MIXER MULTIZONE UNIT ODOR REMOVAL PUMP PANELBOARD, EL LIGHTING AND BRANCH CIR PROCESS OR PER COMPUTER PNEUMATIC EJEC PROGAMMABLE L CONTROLLER PANEL	R PANEL	TM TRS JH JS VEN VP WH	TIMER TRANSFER SWITCH UNIT HEATER UTILITY STATION VENTILATOR VACUUM PUMP WATER HEATER WASHER
A ACC ACU AD AF AHC AHU ASC ASD ATS B BFP BLR BNR BP BLR BNR BP BLR BNR BP BLR BNR BP BLR BNR BP BC BC BR	AIR CONDITION COIL AIR CONDITIONING UNIT AIR DRYER AIR FILTER AIR HANDLING UNIT W/COIL AIR HANDLING UNIT ADJUSTABLE SPEED CONTROL ADJUSTABLE SPEED DRIVE AUTOMATIC TRANSFER SWITCH BLOWER BELT FILTER PRESS BOILER BURNER BACKFLOW PREVENTER BAR SCREEN	EG EPR F FLC FLT FP FPU FUR GEN GDR GDR GT H HEX HOP HP HPU HTR	EQ ENGINE BLOWER MOD ENGINE GENERATOR M EVAPORATOR FAN FLOCCULATOR FILTER FILTER PRESS FLUID POWER UNIT FURNACE GENERATOR GRINDER GATE HOIST HEAT EXCHANGER HYDRAULIC OPERATOR HEAT PUMP	UIPMENT ULE MODULE	PREFIXES MOP MSP MUX MZ ORT PBD PC PEJ PLC PNL POP	MOTOR STARTER MULTIPLEXER MIXER MULTIZONE UNIT ODOR REMOVAL PUMP PANELBOARD, EL LIGHTING AND BRANCH CIR PROCESS OR PER COMPUTER PNEUMATIC EJEC PROGAMMABLE L CONTROLLER PANEL PNEUMATIC OPER	R PANEL	TM TRS JH JS VEN VP WH	TIMER TRANSFER SWITCH UNIT HEATER UTILITY STATION VENTILATOR VACUUM PUMP WATER HEATER WASHER
A ACC ACU AD AF AHC AHU ASC ASD ATS B BFP BLR BNR BP BLR BNR BP BSN C CDR CFR CHR	AIR CONDITION COIL AIR CONDITIONING UNIT AIR DRYER AIR FILTER AIR HANDLING UNIT W/COIL AIR HANDLING UNIT ADJUSTABLE SPEED CONTROL ADJUSTABLE SPEED DRIVE AUTOMATIC TRANSFER SWITCH BLOWER BELT FILTER PRESS BOILER BURNER BACKFLOW PREVENTER BAR SCREEN COIL CONDENSOR CHEMICAL FEEDER	EG EPR F FLC FLT FP FPU FUR GEN GDR GDR GT H HEX HOP HP HPU HTR	EQ ENGINE BLOWER MOD ENGINE GENERATOR M EVAPORATOR FAN FLOCCULATOR FILTER FILTER PRESS FLUID POWER UNIT FURNACE GENERATOR GRINDER GATE HOIST HEAT EXCHANGER HYDRAULIC OPERATOR HEAT PUMP HYDRAULIC POWER UN HEATER	UIPMENT ULE MODULE	PREFIXES MOP MSP MUX MZ ORT PBD PC PEJ PLC PNL POP PVL	MOTOR STARTER MULTIPLEXER MIXER MULTIZONE UNIT ODOR REMOVAL PUMP PANELBOARD, EL LIGHTING AND BRANCH CIR PROCESS OR PER COMPUTER PNEUMATIC EJEC PROGAMMABLE L CONTROLLER PANEL PNEUMATIC OPER PRESSURE VESS	R PANEL	TM TRS JH JS VEN VP WH	TIMER TRANSFER SWITCH UNIT HEATER UTILITY STATION VENTILATOR VACUUM PUMP WATER HEATER WASHER
A ACC ACU AD AF AHC AHU ASC ASD ATS BFP BLR BR BFP BLR BR BSN C CDR CDR CFR CHR COL COM	AIR CONDITION COIL AIR CONDITIONING UNIT AIR DRYER AIR FILTER AIR HANDLING UNIT W/COIL AIR HANDLING UNIT ADJUSTABLE SPEED CONTROL ADJUSTABLE SPEED DRIVE AUTOMATIC TRANSFER SWITCH BLOWER BELT FILTER PRESS BOILER BURNER BACKFLOW PREVENTER BAR SCREEN COIL CONDENSOR CHEMICAL FEEDER CHILLER COLLECTOR COMMINUTOR	EG EPR F FLC FLT FP FPU FUR GEN GDR GT H HEX HOP HP HPU HTR HTT HV	EQUENCIAL EXAMPLE A CONTRACT OF CONTRACT.	UIPMENT ULE MODULE	PREFIXES MOP MSP MUX MZ ORT PBD PC PEJ PLC PLC PNL POP PVL REC SCN	MOTOR STARTER MULTIPLEXER MIXER MULTIZONE UNIT ODOR REMOVAL PUMP PANELBOARD, EL LIGHTING AND BRANCH CIR PROCESS OR PER COMPUTER PNEUMATIC EJEC PROGAMMABLE L CONTROLLER PANEL PNEUMATIC OPER PRESSURE VESS RECEIVER SCREEN (BAR, ET	R PANEL	TM TRS JH JS VEN VP WH	TIMER TRANSFER SWITCH UNIT HEATER UTILITY STATION VENTILATOR VACUUM PUMP WATER HEATER WASHER
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A ACC ACU AD AF AHC AHU ASC ASD ATS B BFP BLR BRR BFP BLR BNR BSN C CCR CDR CFR CHR COL COM CON CON CON	AIR CONDITION COIL AIR CONDITIONING UNIT AIR DRYER AIR FILTER AIR FILTER AIR HANDLING UNIT W/COIL AIR HANDLING UNIT ADJUSTABLE SPEED CONTROL ADJUSTABLE SPEED DRIVE AUTOMATIC TRANSFER SWITCH BLOWER BELT FILTER PRESS BOILER BURNER BACKFLOW PREVENTER BAR SCREEN COIL CONDENSOR CHEMICAL FEEDER CHILLER COLLECTOR CONVEYOR COMPRESSOR	EG EPR F FLC FLT FP FPU FUR GEN GDR GT H HEX HOP HP HPU HTR HTT HV INJ	EQ ENGINE BLOWER MOD ENGINE GENERATOR M EVAPORATOR FAN FLOCCULATOR FILTER FILTER PRESS FLUID POWER UNIT FURNACE GENERATOR GRINDER GATE HOIST HEAT EXCHANGER HYDRAULIC OPERATOR HEAT PUMP HYDRAULIC POWER UN HEATER HEAT TRACER TAPE HAND OPERATED VALV	UIPMENT ULE MODULE	PREFIXES MOP MSP MUX MZ ORT P PBD PC PEJ PLC PNL POP PVL REC SCN SCR SEP	MOTOR STARTER MULTIPLEXER MIXER MULTIZONE UNIT ODOR REMOVAL PUMP PANELBOARD, EL LIGHTING AND BRANCH CIR PROCESS OR PER COMPUTER PNEUMATIC EJEC PROGAMMABLE L CONTROLLER PANEL PNEUMATIC OPER PRESSURE VESS RECEIVER SCREEN (BAR, ET SCRUBBER SEPARATOR	R PANEL	TM TRS JH JS VEN VP WH	TIMER TRANSFER SWITCH UNIT HEATER UTILITY STATION VENTILATOR VACUUM PUMP WATER HEATER WASHER
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A ACC ACU AD AF AHC AHU ASC ASD ATS B BFP BLR BFP BLR BR BFP BLR BNR BP BSN C CDR CFR CHR COL COL CON CON CON CON CON CON CON CON CON CON	AIR CONDITION COIL AIR CONDITIONING UNIT AIR DRYER AIR FILTER AIR FILTER AIR HANDLING UNIT W/COIL AIR HANDLING UNIT ADJUSTABLE SPEED CONTROL ADJUSTABLE SPEED DRIVE AUTOMATIC TRANSFER SWITCH BLOWER BELT FILTER PRESS BOILER BURNER BACKFLOW PREVENTER BAR SCREEN COIL CONDENSOR CHEMICAL FEEDER CHILLER COLLECTOR COMMINUTOR CONVEYOR COMPRESSOR CRANE CENTRIFUGE CONTROL VALVE	EG EPR F FLC FLT FP FPU FUR GEN GDR GT H HEX HOP HP HPU HTR HTT HV INJ LOS LVR	EQ ENGINE BLOWER MOD ENGINE GENERATOR N EVAPORATOR FAN FLOCCULATOR FILTER FILTER PRESS FLUID POWER UNIT FURNACE GENERATOR GRINDER GATE HOIST HEAT EXCHANGER HYDRAULIC OPERATOR HEAT PUMP HYDRAULIC POWER UN HEATER HEAT TRACER TAPE HAND OPERATED VALV INJECTOR LOCK OUT STOP (SWIT LOUVER	UIPMENT ULE MODULE	PREFIXES MOP MSP MUX MZ ORT P PBD PC PEJ PLC PLC PNL POP PVL REC SCN SCR SEP SLR SMP SS	MOTOR STARTER MULTIPLEXER MIXER MULTIZONE UNIT ODOR REMOVAL PUMP PANELBOARD, EL LIGHTING AND BRANCH CIR PROCESS OR PER COMPUTER PNEUMATIC EJEC PROGAMMABLE L CONTROLLER PANEL PNEUMATIC OPER PRESSURE VESS RECEIVER SCRUEN (BAR, ET SCRUBBER SEPARATOR SILENCER SAMPLER SAND SEPARATO	R PANEL	TM TRS JH JS VEN VP WH	TIMER TRANSFER SWITCH UNIT HEATER UTILITY STATION VENTILATOR VACUUM PUMP WATER HEATER WASHER
A ACC ACU AD AF AHC AHU ASC ASD ATS B BFP BLR BFP BLR BR BFP BLR BNR BP BSN C CDR CDR CFR CHR COL COM CON CON CON CON CON CON CON CON CON CTF CV	AIR CONDITION COIL AIR CONDITIONING UNIT AIR DRYER AIR FILTER AIR HANDLING UNIT W/COIL AIR HANDLING UNIT ADJUSTABLE SPEED CONTROL ADJUSTABLE SPEED DRIVE AUTOMATIC TRANSFER SWITCH BLOWER BELT FILTER PRESS BOILER BURNER BACKFLOW PREVENTER BAR SCREEN COIL CONDENSOR CHEMICAL FEEDER CHILLER COLLECTOR COMMINUTOR COMPRESSOR CRANE CENTRIFUGE	EG EPR F FLC FLT FP FPU FUR GEN GDR GT H HEX HOP HP HPU HTR HTT HV INJ LOS LVR	EQ ENGINE BLOWER MOD ENGINE GENERATOR M EVAPORATOR FAN FLOCCULATOR FILTER FILTER PRESS FLUID POWER UNIT FURNACE GENERATOR GRINDER GATE HOIST HEAT EXCHANGER HYDRAULIC OPERATOR HEAT PUMP HYDRAULIC POWER UN HEATER HEAT TRACER TAPE HAND OPERATED VALV INJECTOR LOCK OUT STOP (SWIT	UIPMENT ULE MODULE R NIT /E CH)	PREFIXES MOP MSP MUX MZ ORT PBD PC PBD PC PEJ PLC PLC PNL POP PVL REC SCN SCR SEP SLR SMP	MOTOR STARTER MULTIPLEXER MIXER MULTIZONE UNIT ODOR REMOVAL PUMP PANELBOARD, EL LIGHTING AND BRANCH CIR PROCESS OR PER COMPUTER PNEUMATIC EJEC PROGAMMABLE L CONTROLLER PANEL PNEUMATIC OPER PANEL PNEUMATIC OPER PRESSURE VESS RECEIVER SCREEN (BAR, ET SCRUBBER SEPARATOR SILENCER SAMPLER	R PANEL	TM TRS JH JS VEN VP WH	TIMER TRANSFER SWITCH UNIT HEATER UTILITY STATION VENTILATOR VACUUM PUMP WATER HEATER WASHER
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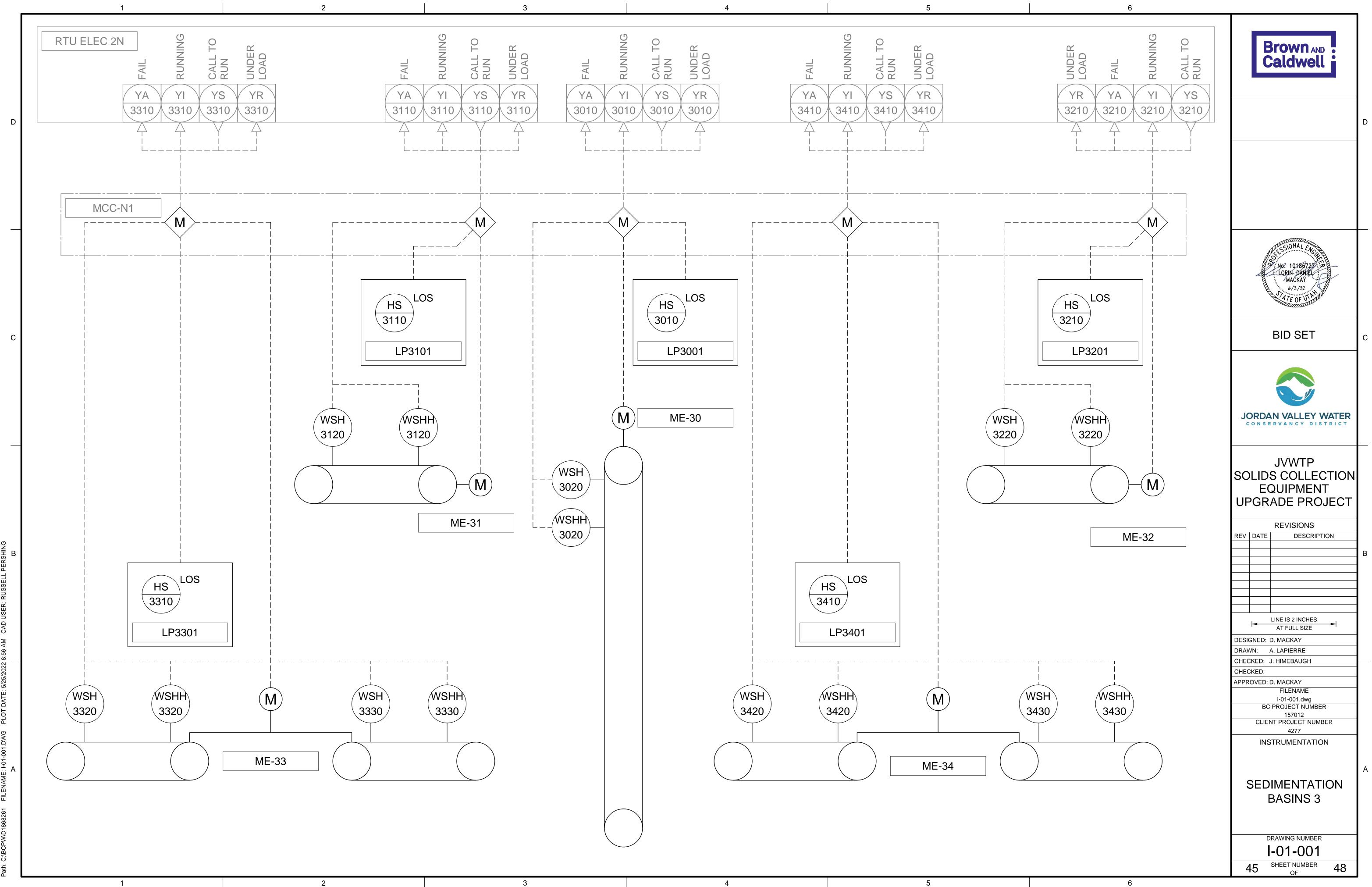
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GENERAL NOTES: 1. THIS DRAWING IS GENERAL IN NATURE. SOME SYMBOLS AND IDENTIFICATIONS SHOWN HEREON MAY NOT BE USED ON THE CONTRACT DRAWINGS.

2. SYMBOLS ARE ARRANGED ON SPECIFIC DRAWINGS AND IN CATEGORIES FOR CONVENIENCE ONLY; SYMBOLS

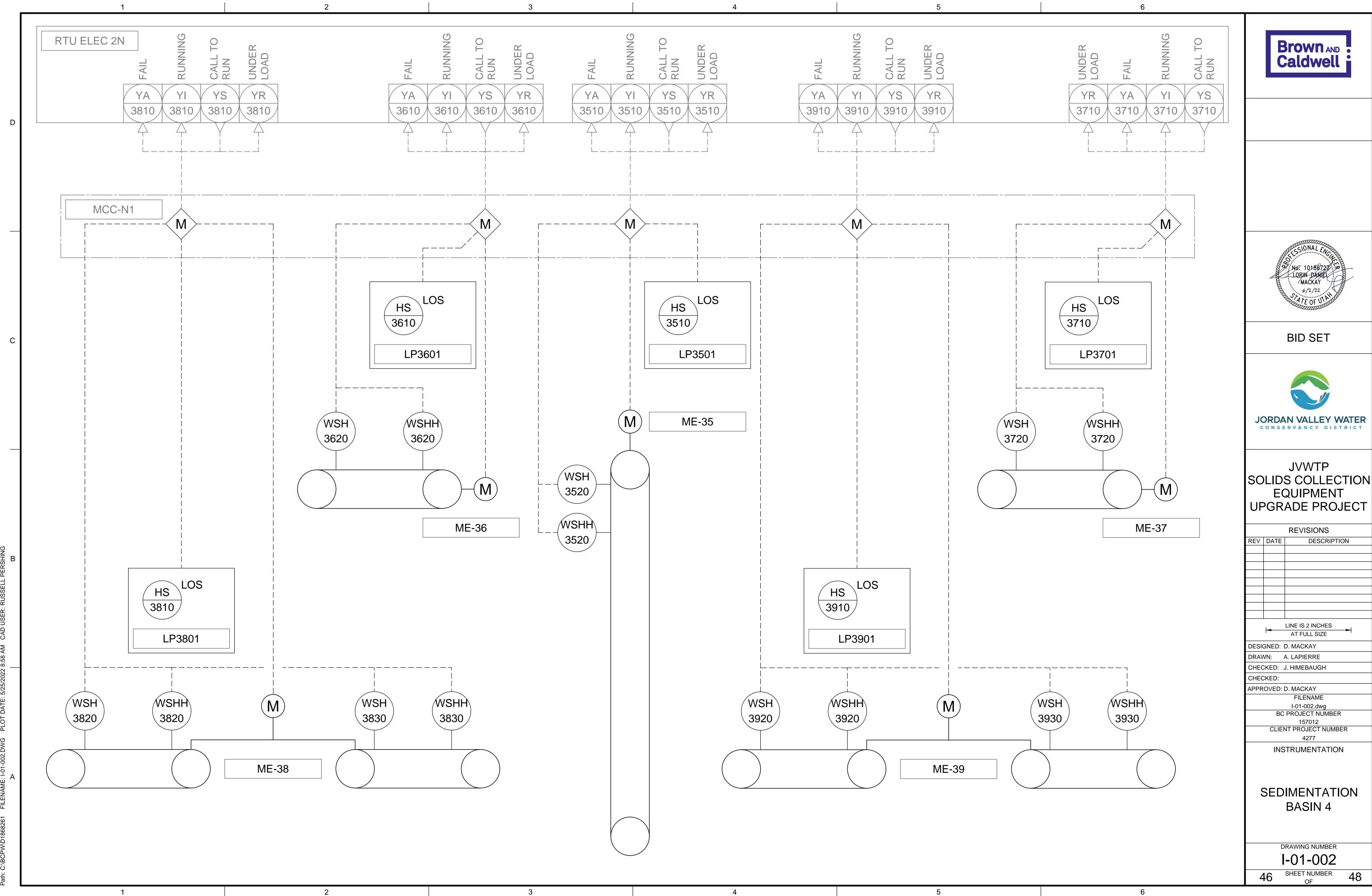
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MAY BE USED ON ANY OF THE CONTRACT DRAWINGS.













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