DRAWINGS FOR CONSTRUCTION OF THE

IRON COUNTY EWP PROJECT

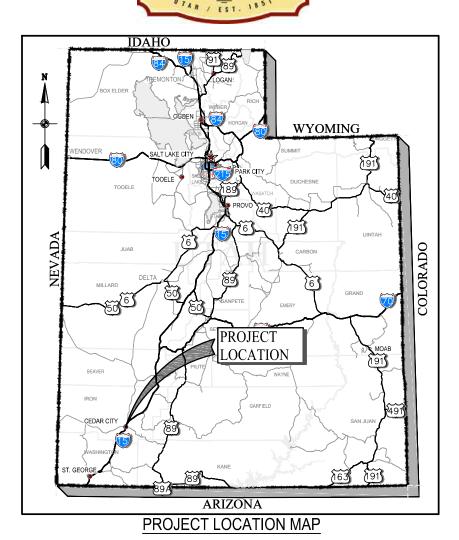






United States Department of Agriculture

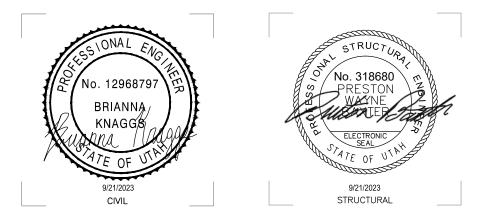
Natural Resources Conservation Service



SHT NO.	DWG NO.	DESCRIPTION
		GENERAL
01	G-01	TITLE PAGE, PROJECT LOCATION, INDEX OF DRAWINGS AND VICINITY MAP
02	G-02	ABBREVIATIONS
03	G-03	SYMBOLS AND NOTES
		CIVIL
04	C-01	LADYBUG NURSERY SITE IMPROVEMENTS
05	C-02	RIGHT HAND CREEK SITE PLAN AND PROFILE
06	C-03	RIGHT HAND CREEK GRADING PLAN
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08	C-05	RED CREEK ROAD ROADWAY PLAN & PROFILE, AND GRADING PLAN
09	C-06	RED CREEK ROAD RECOMMENDED REPAIRS
		STRUCTURAL
10	S-01	RED CREEK ROAD STRUCTURAL DETAILS
11	S-02	RED CREEK ROAD WALL SECTIONS AND DETAILS
	•	GENERAL CIVIL
12	GC-01	CIVIL DETAILS - 1



PROJECT VICINITY MAP



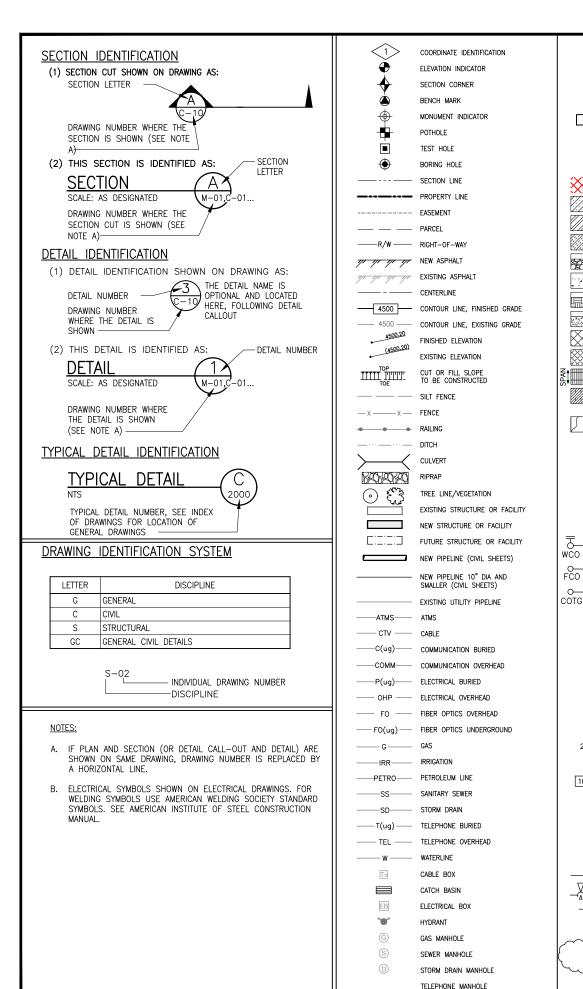




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					NO DATE BEY BY			
					DATE:			
	ROJECT		VERIFY SCALE	NO TOWN DIVO				
IRON COUNTY/NRCS	IRON COUNTY EWP PROJECT	IRON COUNTY, UTAH	WEIVIEW		CHECKED C. BAGLEY		APPROVED B. KNAGGS	
	IRON CC		NSISA		DESIGN B. KNAGGS		DRAWN B. KNAGGS	
RAL	DIFCTIOCATION			Y MAP			NUMBER 182-22-02	
GENERAL	TITTLE PAGE PROJECT LOC			VICINII Y MAI		COCC CL	DATE: SEPTEMBER 2023	
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G-01

	AT	CLD	CLEAR CLEARANCE	FOLUD	EQUIDMENT	I ID	INCIDE DIAMETED	NIW	NODTHWEST	I CDFC	CDECIFIED CDECIFICATION		**
MASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY	CLR CLST	CLEAR, CLEARANCE CEMENT LINED STEEL PIPE	EQUIP ETC	EQUIPMENT ETCETERA	IE	INSIDE DIAMETER INVERT ELEVATION	INW	NORTHWEST	SPEC SPECS	SPECIFIED, SPECIFICATION SPECIFICATIONS		5
	TRANSPORTATION OFFICIALS	CLSM	CONTROLLED LOW STRENGTH MATERIAL	EVAP	EVAPORATOR	IF	INSIDE FACE			SPG	SPACING		= +
AB ABBR	ANCHOR BOLT ABBREVIATION	CM	CENTIMETER	EVC	END VERTICAL CURVE	IN	INCH	0 TO 0	OUT TO OUT	SPKR	SPEAKER		⋾ ⊲
ABS	ACRYLONITRILE—BUTADIENE—STYRENE	CML & C	CEMENT MORTAR LINED AND COATED	EVCE	END VERTICAL CURVE ELEVATION	IN LB	INCH-POUND	00	ON CENTER, OVER-CROSSING	SPLY	SUPPLY		Q -
AC	ASPHALTIC CONCRETE OR ALTERNATING	CMP CMU	CORRUGATED METAL PIPE CONCRETE MASONRY UNIT	EVCS EW	END VERTICAL CURVE STATION EACH WAY, EYE WASH	INFL INSUL	INFLUENT INSULATING	OD OF	OUTSIDE DIAMETER, OVERALL DIMENSION OUTSIDE FACE, OVERFLOW	SPRT	SUPPORT SQUARE		
ACI	CURRENT OR ACTIVATED CARBON	CO	CLEANOUT	EXH	EXHAUST	INVT	INVERT	OFS	OVERFLOW STRUCTURE	SQ SQ FT	SQUARE SQUARE FOOT		Z
ACI ACP	AMERICAN CONCRETE INSTITUTE ASPHALTIC CONCRETE PAVEMENT	COL	COLUMN	EXIST	EXISTING	IOB	INLET OUTLET BYPASS	ОН	OVERHEAD	SR	SUPPLY REGISTER		
ADDL	ADDITIONAL	СОММ	COMMUNICATION	EXP ANR	EXPANSION BOLT, ANCHOR	IPS	IRON PIPE SIZE	OPER	OPERATOR, OPERATING	SS	SANITARY SEWER, SERVICE SINK		\$ *
ADJ	ADJACENT OR ADJUSTABLE	COMB	COMBINED	EXP JT	EXPANSION JOINT	IRR	IRRIGATION	OPNG	OPENING	SST	STAINLESS STEEL		Q <
AER	AERATION	CONC COND	CONCRETE, CONCENTRIC CONDENSER, CONDENSATE	EXT	EXTERIOR, EXTENSION, EXTERNAL			OPP ORIG	OPPOSITE ORIGINAL	STA	STATION		
AFF	ABOVE FINISH FLOOR	COND	CONNECTION			JA	JORDAN AQUEDUCT	OVHD	OVERHEAD	STD STIFF	STANDARD STIFFENER		
AGGR AH	AGGREGATE AIR HANDLER	CONST	CONSTRUCTION, CONSTRUCT	F	FAHRENHEIT, FACE	JT	JOINT	OZ	OUNCE	STL	STEEL	# # # # # # # # # # # # # # # # # # #	
AIR CONT	AIR CONDITIONING	CONT	CONTINUED, CONTINUOUS, CONTINUATION	F TO F	FACE TO FACE	JTS	JOINTS	1 *-	33.132	STRL	STRUCTURAL	#\$\(\begin{array}{c} \pi \pi \chi \chi \chi \chi \chi \chi \chi \ch	
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	COORD	COORDINATE	FAB	FABRICATION, FABRICATE, OR FABRICATED	JVWTP	JORDAN VALLEY WATER TREATMENT PLANT			SUC	STRUCTURAL UNDERDRAIN COLLECTOR	# NE	NAG NAG
		COP COTG	COPPER CLEAN-OUT TO GRADE	FB	FLAT BAR			PC	PORTLAND CEMENT, POINT OF CURVE OR	SWA	SOUTHWEST AQUEDUCT	1/3/	2 1 X X X X
AL ALTN	ALUMINUM, ALUM ALTERNATIVE, ALTERNATE	CPLG	COUPLING	FC	FLEXIBLE COUPLING			PCC	PRIMARY CLARIFIER PORTLAND CEMENT CONCRETE	SYM SYMM	SYMBOL	100	Deld W
ANOD	ANODIZED	CPS	CULINARY PUMP STATION	FCA	FLANGE COUPLING ADAPTER	К	KELVIN, KILO OR THOUSAND POUNDS	PCF	POUNDS PER CUBIC FOOT	SYS	SYMMETRICAL SYSTEM		
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	CPVC	CHLORINATED POLYVINYL CHLORIDE	FC0	FLOOR CLEANOUT	KG	KILOGRAM	PE	PLAIN END, POLYELECTROLYTE POLYMER,	313	STSTEM		
ADDDOV	ADDDOVIMATE	CS	CAST STEEL OR CAUSTIC SODA	FD FDN	FLOOR DRAIN FOUNDATION	KV KW	KILOVOLT KILOWATT	PG	POLYETHYLENE				
APPROX APVD	APPROXIMATE APPROVED	CTRD CTR	CENTERED	FDR	FEEDER	KWH	KILOWATT HOUR	PG	PRESSURE GAUGE	T	THICKNESS, TOP, TOILET		$1 1 1 1_{-1}$
ARCH	ARCHITECTURAL	CTSK	CENTER COUNTERSUNK	FEXT	FIRE EXTINGUISHER	1	MEOWIT TIOOK	pН	HYDROGEN ION CONCENTRATION	T&B	TOP AND BOTTOM		NOIL
ARV	AIR RELEASE VALVE	CU FT	CUBIC FOOT	FF	FLAT FACE, FAR FACE, FINISH FLOOR			PI	PLANT INFLUENT, POINT OF INTERSECTION	T&G TAN	TONGUE AND GROOVE TANGENT		
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	CU IN	CUBIC INCH	FG	FINISH GRADE, FLOW GLASS	L	LEFT OR LITER	PJF	PREMOLDED JOINT FILLER	TBC	TOP BACK OF CURB		DES
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIAL	CU YD	CUBIC YARD	FH	FIRE HYDRANT	LAB	LANGTORY	PL	PLATE, PROPERTY LINE, PLACE	ТВМ	TEMPORARY BENCH MARK		
		CULV	CULVERT	FLR FL	FLOOR FLOW LINE	LAV LB	LAVATORY POUND	PLYWD	PLYWOOD	TDH	TOTAL DYNAMIC HEAD		
ASSY	ASSEMBLY	CV	CHECK VALVE COLD WATER	FLEX	FLEXIBLE	LC	LENGTH OF CURVE	РМ	PUMP, PROPELLER METER	TECH	TECHNICAL		
AUTO	AUTOMATIC	CWO	COLD WATER CHAIN WHEEL OPERATOR	FLG	FLANGE	LF	LINEAR FEET	POB	POINT OF BEGINNING	TEL	TELEPHONE TEMPORARY		
AUX AVAR	AUXILIARY AIR VACUUM AND AIR RELEASE VALVE	CYL	CYLINDER	FM	FORCE MAIN (SANITARY SEWER)	LG	LENGTH OR LONG	PP	POTASSIUM PERMANGANATE	TEMP THK	TEMPERATURE, TEMPORARY THICK		<u> </u>
AWS	AMERICAN WELDING SOCIETY			FND	FOUND	LH	LEFT HAND	PPD PPH	POUNDS PER DAY POUNDS PER HOUR	THR'D	THREADED		<u> </u>
AWWA	AMERICAN WATER WORKS ASSOCIATION			FNSH	FINISH	LIP	LIP OF GUTTER	PPM	PARTS PER MILLION	TK	TANK		<u> </u>
		d DDA	PENNY ANGLIOR	FO FRP	FIBER OPTIC FIBERGLASS REINFORCED PLASTIC	LLV	LIVE LOAD LONG LEG VERTICAL	PR	PAIR	TO	TOP OF)ATE
	DELL & CDIOCT	DBA DBL	DEFORMED ANCHOR DOUBLE	FW FW	FINISH WATER	LOL	LENGTH OF LINE	PRC	POINT OF REVERSE CURVE	TOC	TOP OF CONCRETE		
B & S	BELL & SPIGOT	DC	DIRECT CURRENT	FWR	FINISH WATER RESERVOIR	LP	LOW POINT	PREFAB	PREFABRICATED	TOG TP	TOP OF GRADE		9
BC BF	BEGIN CURVE, BOLT CIRCLE BLIND FLANGE, BUTTERFLY VALVE	DEG	DEGREE	I		LR	LONG RADIUS	PRI	PRIMARY	TW	TELEPHONE POLE, TURNING POINT TOP OF WALL		l
BFG	BELOW FINISH GRADE	DEMO	DEMOLITION, DEMOLISH	I .	0.0	LT	LIGHT, LEFT	PRV	PRESSURE REGULATING/REDUCING VALVE	TYP	TYPICAL		S S ■
BFP	BACK FLOW PREVENTER	DEQ	DEPARTMENT OF ENVIRONMENTAL QUALITY	G CA	GAS CACE CALICE	LVL LWL	LEVEL LOW WATER LEVEL	PS	PRESSURE SWITCH, PUMP STATION				S CH S
BFV	BUTTERFLY VALVE	DET	DETAIL	GA GAL	GAGE, GAUGE GALLON	LWL	LOWER LEVEL	PSF	POUNDS PER SQUARE FOOT	l		<u> </u>	∞ = H
BHD	BULKHEAD	DI	DUCTILE IRON, DROP INLET	GALV	GALVANIZED	I,	· _ ··	PSI	POUNDS PER SQUARE INCH	UBC	UNIFORM BUILDING CODE	\Box	
BHP BLDG	BRAKE HORSEPOWER BUILDING	DIA	DIAMETER	GEN	GENERATOR			PSIG	POUNDS PER SQUARE INCH GAUGE	UD UG	UNDERDRAIN UNDERGROUND		AR IS O
BLK	BLACK OR BLOCK	DIAG	DIAGONAL	GFI	GROUND FAULT INTERRUPTER	M	METER, MALE (PIPE THREAD)	PT PTS =	POINT OF TANGENT, PRESSURE TREATED	UH	UNIT HEATER	OJE	
BLKG	BLOCKING	DIAPH DIFF	DIAPHRAGM DIFFUSER	GI	GALVANIZED IRON	MACH MAN	MACHINE MAGNETIC, MANUAL	PTDF PV	PRESSURE TREATED DOUGLAS FIR PAVEMENT	UL	UNDERWRITERS LABORATORIES	PR	-
BLT	BOLT	DIFF	DIMENSION	GIS GL	GEOGRAPHIC INFORMATION SYSTEM GLASS	MAN MATL	MAGNETIC, MANUAL MATERIAL	PV	POLYVINYL CHLORIDE	UNO	UNLESS NOTED OTHERWISE		
BM	BEAM, BENCH MARK	DIP	DUCTILE IRON PIPE	GLAZ	GLAZING	MAX	MAXIMUM	PVI	POINT OF VERTICAL INTERSECTION	USBR	U.S. BUREAU OF RECLAMATION	్ట్ 🗗	₹ × (1) %
BO BOT	BLOW-OFF ASSEMBLY, BLOW-OFF BOTTOM	DIR	DIRECTION	GLV	GLOBE VALVE	MB	MACHINE BOLT	PW	POTABLE WATER			§ ≥	
BPS	BOOSTER PUMPING STATION	DISCH	DISCHARGE	GND	GROUND	MCC	MOTOR CONTROL CENTER			V	VALVE, VENT, VOLT, VACUUM	ÉШ	
BPV	BACK PRESSURE VALVE	DIST	DISTANCE	GPD	GALLONS PER DAY	MECH	MECHANICAL, MECHANISM			VAR	VARIES, OR VARIABLE	র ≻	
BRK	BRICK	DIV D-LOAD	DIVISION LOADING CONDITION FOR RCP	GPH GPM	GALLONS PER HOUR	MEMB MFT	MEMBRANE METAI	RAD	RADIUS	VC	VERTICAL CURVE	lš 5	over over
BTU	BRITISH THERMAL UNIT	D-LOAD DMPR	DAMPER	GPM GR	GALLONS PER MINUTE GRADE	MEI MFR	METAL MANUFACTURER	RC RCP	REINFORCED CONCRETE	VCP	VITRIFIED CLAY PIPE		
BTWN	BETWEEN BUILT LUB BOOEING	DN	DOWN, DECANT	GR BRK	GRADE BREAK, GRADE CHANGE	MG	MILLION GALLONS	RCP RD	REINFORCED CONCRETE PIPE ROOF DRAIN OR ROAD	VERT VIC	VERTICAL VICTALII IC COLIDI INC	l No	*
BUR BVC	BUILT-UP ROOFING BEGIN VERTICAL CURVE	DOT	DEPARTMENT OF TRANSPORTATION	GRTG	GRATING	MGD	MILLION GALLONS PER DAY	RDCR	REDUCER, REDUCING	VIC	VICTAULIC COUPLING VOLUME	1 8	
BVCE	BEGIN VERTICAL CURVE ELEVATION	DP	DAMP PROOFING	GRV	GROOVED	MH	MANHOLE, MONORAIL HOIST	RECIRC	RECIRCULATION	VPI	VERTICAL POINT OF INFLECTION	Ιž	
BVCS	BEGIN VERTICAL CURVE STATION	DR DS	DOOR, DRAIN DRENCH SHOWER & EYE WASH. DOWNSPOUT	GSP	GALVANIZED STEEL PIPE	MI MID	MALLEABLE IRON MIDDLE	RED	REDUCING	VSS	VOLATILE SUSPENDED SOLIDS		2 0 0
BW	BACK WASH, FILTER BACKWASH		*	GV GYP	GATE VALVE GYPSUM BOARD	MID MIL	MIDDLE 1/1,000 INCH	REF	REFERENCE, REFER	VTC	VENT THROUGH CEILING	RO	
		DWG	DRAWING		OT SOME DOUGH	MIN	MINIMUM OR MINUTE	REG	REGULATING, REGISTER	VTR	VENT THROUGH ROOF	=	DES B. KI
	CENTIGRADE OR CELSIUS	DWL	DOWEL	1		MISC	MISCELLANEOUS	REINF REQD	REINFORCE, REINFORCED REQUIRED				_ % %
CAB	CABINET			Н	HEIGHT	MJ	MECHANICAL JOINT	REV	REVISION	w	WEST, WASTE, WIDE FLANGE (BEAM)		DESIC
CAP	CAPACITY	E(UG)	ELECTRICAL (UNDERGROUND)	HAS	HEADED ANCHOR STUD	MO	MASONRY OPENING	RF	ROOF, RAISED FACE	w/	WITH	L	
CARV	COMBINATION AIR RELEASE VALVE	E(OH)	ELECTRICAL (OVERHEAD POWER)	HB HD	HOSE BIBB HUB DRAIN	MPH MTG	MILES PER HOUR MOUNTING	RND	ROUND	w/o	WITHOUT		$\overline{}$
CB	CATCH BASIN	E	EAST	HDPE	HIGH DENSITY POLYETHYLENE	MTL	METAL OR MATERIAL	RPM	REVOLUTIONS PER MINUTE	WC	WATER COLUMN OR WATER CLOSET		22
CC CCP	CENTER TO CENTER CONCRETE CYLINDER PIPE	ĒA	EACH	HDR	HEADER	MTR	MOTOR	RP	RADIUS POINT	WCO	WALL CLEANOUT		25-6
CCP	CEILING DIFFUSER CHEMICAL DRAIN AND VENT	EB	EXPANSION BOLT	HDW	HARDWARE	MWS	MAXIMUM WATER SURFACE	RS RST	RAW SEWAGE	WD	WOOD		182.
		EC ECC	END CURVE ECCENTRIC	HEX	HEXAGONAL			RT RS1	REINFORCING STEEL, RESET REGULATING TANK. RADIOGRAPHIC. RIGHT	WH WS	WATER HEATER WATER STOP. WATER SURFACE		. (n ⊢.
CER	CERAMIC	ECC EF	EACH FACE, EXHAUST FAN	HGR HM	HANGER HOLLOW METAL	L	NODTU	'`'	,	WSP	WELDED STEEL PIPE		> I 대
CFH CFM	CUBIC FEET PER HOUR CUBIC FEET PER MINUTE	EFF	EFFLUENT	HM HORIZ	HORIZONTAL	N NAVD	NORTH NORTH AMERICAN VERTICAL DATUM	RV	ROOF VENT	WSTP	WATER STOP		o lã
CFR	CODE OF FEDERAL REGULATIONS	EG	EXISTING GRADE	HP	HORSEPOWER, HIGH PRESSURE, HEAT PUMP,	NBS	NATIONAL BUREAU OF STANDARDS	R/W	RIGHT OF WAY	WT	WEIGHT		
CFS	CUBIC FEET PER SECOND	EL	ELEVATION		HIGH POINT	NC	NORMALLY CLOSED	RW	RAW WATER	WWM	WELDED WIRE MESH	₹K	'∢ l
CG	CHLORINE GAS	ELB ELEV	ELBOW ELEVATION	HR	HEATING RETURN, HOUR, HOSE RACK	NE	NORTHEAST					Ä	⋝
CGB	CORD GRIP BUSHING	ELEC	ELEVATION ELECTRICAL, ELECTRONIC	HS HSS	HIGH STRENGTH HOLLOW STRUCTURAL SECTION	NEC NEMA	NATIONAL ELECTRICAL MANUFACTURES	s	SOUTH, SECOND	XMFR	TRANSFORMER	ß	BBREVIATIONS BER 2023 BROGEGT
CHBD CHEM	CHALKBOARD CHEMICAL	EMB	EMBEDMENT	HTG	HEATING	NEMA	NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION	SA	SAMPLE, SAMPLE LINE	XMTR	TRANSMITTER		₩ 8
CHEM	CHANGE	EMER	EMERGENCY	HTR	HEATER	NF	NEAR FACE	SCFM	STANDARD CUBIC FEET PER MINUTE	XS	EXTRA STRONG		뿚
CHKD PL	CHECKERED PLATE	ENCL	ENCLOSURE	HV	HOSE VALVE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	SCH	SCHEDULE				₩ I ₩
CI	CAST IRON	ENG	ENGINE	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	NIC	NOT IN CONTRACT	SD	STORM DRAIN	YD	YARD		_ H
CIP	CAST IRON PIPE	ENGR EP	ENGINEER EDGE OF PAVEMENT	HWL	HIGH WATER LEVEL	NO	NUMBER OR NORMALLY OPEN	SECT SHT	SECTION SHEET	YP	YARD PIPING		SE
CISP CJ	CAST IRON SOIL PIPE CONSTRUCTION JOINT	EPDM	ETHYL PROPYLENE DIENE MONOMER	HWO	HANDWHEEL OPERATED	NOM	NOMINAL	SIM	SHEET	YR	YEAR		I
CJP	CONSTRUCTION JOINT COMPLETE JOINT PENETRATION	EPS	EXPANDED POLYSTYRENE	HYD	HYDRANT, HYDRAULIC	NPT	NATIONAL PIPE THREAD	SLP	SLOPE				ATE
CL	CHLORINATOR, CHAIN LINK, CENTERLINE OR	EQ	EQUAL	1		NS NSE	NEAR SIDE	SP	SPACING, STATIC PRESSURE			L	
	CHLORINE	EQL SP	EQUALLY SPACED	ICFM	INLET CUBIC FEET PER MINUTE	NSF NTS	NATIONAL SANITATION FOUNDATION NOT TO SCALE	SPA	SPACED			DF	RAWING NO.
				ICTWI	INLLI CODIC FEET PER MINUTE	""3							G-02
				1									
								<u> </u>				SHEET	<u>02</u> _{OF} <u>12</u>
	in County EWP\2.0 Design Phase\2.7 Drawings\shf\1822202_G-02.dwg Plotted: 9/21/2023												



GENERAL NOTES

POWER POLE

LIGHT POLE

STEEL

INSULATION

CONCRETE

SAND

GRATING

FHC FIRE HOSE CABINET

UNIT HEATER

QFC0

10" PW (2)

(MF-2

[-(-)]

 \bigcirc

-|><|-

(3)

(W)

(VIV)

WATER MANHOLE

WATER METER

FEO FIRE EXTINGUISHER

WALL CLEANOUT

FLOOR CLEANOUT

CLEANOUT TO GRADE

BLOW OFF ASSEMBLY

CHANGE IN PIPING MATERIAL

BBREVIATION (USE FOR EXISTING

PIPE SIZE AND TYPE/FLUID

(SEE PIPING SCHEDULE)

(SEE EQUIPMENT SCHEDULE)

EQUIPMENT NUMBER

HUR DRAIN

FLOOR DRAIN

FLOOR SINK

DRAIN TRAP

PIPE CALLOUT)

PIPE CALLOUT

STOP GATE

SLIDE GATE

SLUICE GATE

HOSE BIBB (H/B)

LIQUID SURFACE EL

REFERENCE TO NOTE

REVISION WORK

- REDUCER OR INCREASER

GATE VALVE

TELEPHONE BOX

LIGHT POLE ONE LUMINAIRE

LIGHT POLE TWO LUMINAIRS

STREET LIGHT WITH BRACKET

TO BE REMOVED OR ABANDONED

ALUMINUM OR METAL DECKING

PLASTIC, RUBBER OR NEOPRENE

WOOD (ROUGH FRAMING) OR.

OPENING OR DEPRESSION IN SLAB

PRESSURE CLEANOUT TO GRADE

CHECKERED PLATE

TB

 $\neg \alpha$

GRAVEL

EARTH

WCO

FC0

- SYMBOLS FOR STRUCTURES, PIPE, ETC. USED FOR IDENTIFICATION ARE SHOWN IN LEGENDS AND SHALL BE FOLLOWED THROUGHOUT THE PLANS WHENEVER APPLICABLE. NOT ALL OF THE VARIOUS COMPONENTS SHOWN IN THESE LEGENDS ARE NECESSARILY USED IN THE PROJECT.
- SCALES OF THE DRAWINGS AND DETAILS ARE SHOWN IN TITLE BLOCK OR DIRECTLY UNDER THE PLAN OR DETAIL. THE SIZE OF THE ORIGINAL PLOTTED DRAWINGS IS 22"X34". CARE SHOULD BE TAKEN TO REVIEW AND VERIFY SCALE BAR IN THE TITLE BLOCK AREA TO DETERMINE THE SCALE OF REDUCED
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ANY ADDITIONS, DELETIONS, OR MODIFICATIONS SHALL FIRST MEET WITH THE WRITTEN APPROVAL OF THE ENGINEER AND THE OWNER
- CONTRACTOR SHALL COMPLY WITH OWNER-OBTAINED PERMIT(S) AND COMPLY WITH ALL REQUIREMENTS OF GOVERNING AGENCIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR WETTING DOWN DRY MATERIAL AND CONTROLLING RUBBISH TO PREVENT BLOWING. DUST CONTROL REQUIREMENTS WILL BE IN ACCORDANCE TO THE GOVERNING AGENCY STANDARDS
- THE CONTRACTOR SHALL KEEP ALL CONSTRUCTION ACTIVITIES WITHIN THE ESTABLISHED RIGHT-OF-WAY AND CONSTRUCTION EASEMENTS AS SHOWN ON THE DRAWINGS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO VEHICLES AND EQUIPMENT, LIMITS OF EXCAVATION, AND EXCAVATED MATERIAL AND BACKFILL STORAGE. IF THE CONTRACTOR REQUIRES ADDITIONAL WORK AREA TO FACILITATE CONSTRUCTION, IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN SUCH EASEMENTS OR AGREEMENTS FROM INDIVIDUAL PROPERTY OWNERS.
- EXISTING UTILITIES SHOWN ON DRAWINGS ARE BASED ON A RECORD SEARCH BY LOCAL CONTROLLING AGENCIES AND ARE APPROXIMATELY LOCATED. EXISTING UTILITIES ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF AND PRESERVING ALL UTILITIES INCLUDING THOSE NOT SHOWN OR INCORRECTLY SHOWN ON THE DRAWINGS. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST TWO (2) WEEKS IN ADVANCE OF UTILITY CONFLICTS REQUIRING RELOCATION OF MAIN LINES, AND AT LEAST ONE (1) WEEK IN ADVANCE OF CONFLICTS REQUIRING RELOCATION OF SERVICE
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING FACILITIES WHICH ARE TO REMAIN IN PLACE FROM DAMAGE, INCLUDING EXISTING ACCESS ROADS. ALL SUCH FACILITIES OR STRUCTURES DAMAGED BY THE CONTRACTORS OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED TO ORIGINAL OR BETTER CONDITION TO THE SATISFACTION OF THE OWNER AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING UTILITIES AND REPAIRING DAMAGE TO SUCH LINES AS A RESULT OF THE CONTRACTOR'S OPERATIONS. IN GENERAL, SERVICE CONNECTIONS FOR UTILITIES ARE NOT SHOWN ON THE DRAWINGS
- 10. CONTRACTOR SHALL PRESERVE ALL SURVEY MONUMENTS, CONTROL POINTS AND TEMPORARY BENCH MARKS. ANY MONUMENTS OR CONTROL POINTS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT CONTRACTOR'S
- 11. EXCAVATION LIMITS SHOWN ON THE DRAWINGS ARE GRAPHICAL REPRESENTATIONS ONLY, AND DO NOT REPRESENT ACTUAL EXCAVATION LIMITS REQUIRED TO COMPLETE THE WORK. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFORMANCE WITH LOCAL AND FEDERAL CODES GOVERNING EXCAVATIONS AND TRENCHES. CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF THE PUBLIC AND PROTECTION OF PERSONNEL AND WORKERS.
- 12. CONTRACTOR SHALL CONTACT BLUE STAKES AT 1-800-662-4111 FOR MARKING OF EXISTING UTILITIES PRIOR TO PERFORMING ANY EXCAVATION. CALL FOR LINDERGROUND LOCATING TWO WORKING DAYS PRIOR TO ANY EXCAVATION
- 13. CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO PROVIDE ALL TEMPORARY FROSION CONTROL AND MAINTENANCE AND SHALL PROVIDE FROSION AND SEDIMENT CONTROL PLANS TO ENGINEER FOR REVIEW.
- 14. NO CHANGE IN DESIGN LOCATION OR GRADE SHALL BE MADE BY THE CONTRACTOR WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OR THEIR AUTHORIZED REPRESENTATIVE.
- 15. CONTRACTOR SHALL CONSTRUCT BERMS AND/OR DRAINAGE DITCHES AS NEEDED TO KEEP STORM RUNOFE AND IRRIGATION FLOWS FROM ENTERING CONSTRUCTION EXCAVATIONS OR INTERFERING WITH CONSTRUCTION EFFORTS.
- 16. CONTRACTOR SHALL COORDINATE FINAL EXTENTS OF BANK STABILIZATION WITH ENGINEER PRIOR TO CONSTRUCTION
- 17. TEMPORARY CHANNEL ACCESS. WITH APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY CONSTRUCT TEMPORARY ACCESS POINTS TO THE WORK AREAS IN ADDITION TO THOSE SHOWN ON THE DRAWINGS TO FACILITATE CONSTRUCTION. DISTURBED AREAS SHALL BE RESTORED AND RESEEDED AFTER CONSTRUCTION. SEE SPECIFICATIONS FOR RESEEDING REQUIREMENTS.
- 18. RIGHT HAND CREEK AND RED CREEK CAN EXPERIENCE UNREGULATED MOUNTAIN RUNOFF. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR DEWATERING AND WATER MANAGEMENT DURING THE CONSTRUCTION PERIOD

- BANK STABILIZATION WORK MAY BE PREFORMED WHEN WATER IS IN THE RIVER, AS LONG AS THE WATER IS MAINTAINED AT A DEPTH OF 2-FT BELOW ANY EXCAVATION OR SUBGRADE PREPARATION
- 20. TOPOGRAPHIC CONTOURS SHOWN ON DESIGN DRAWINGS ARE REPRESENTATIONS OF CONDITION THAT EXISTED IN JULY 2022. EROSION, SEDIMENT DEPOSTIION, AND CHANNEL MAINTENANCE ACTIVITIES MAY HAVE RESULTED IN MODIFICATIONS





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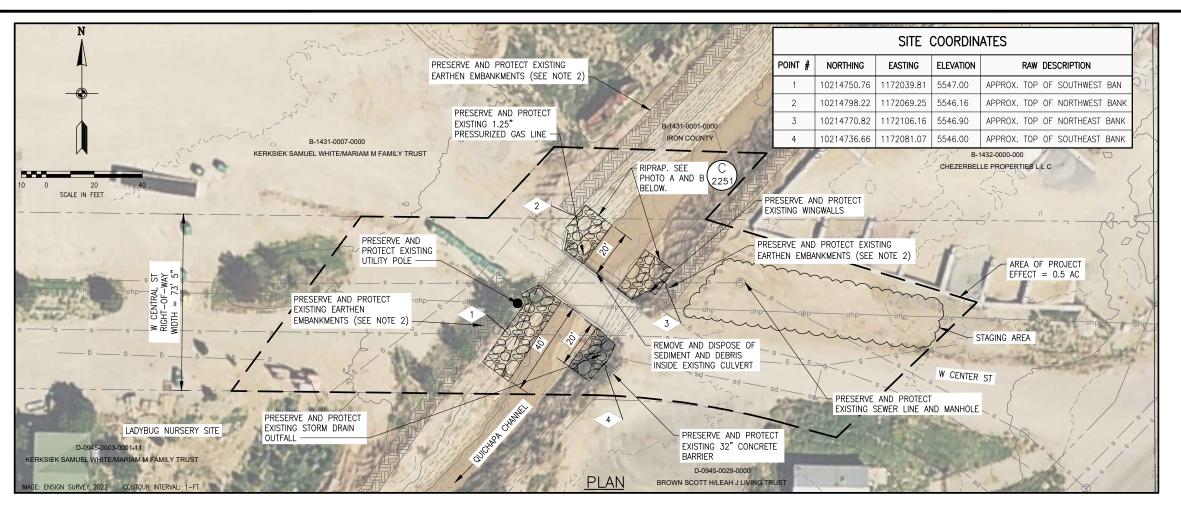
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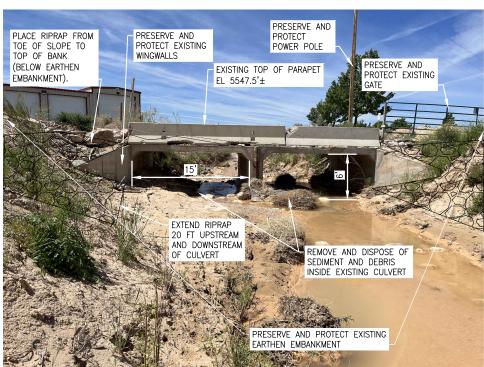


PHOTO A - UPSTREAM FACE,



PHOTO B-UPSTREAM FACE B SCALE: NTS

- 1. ESTIMATED RIPRAP QUANTITY = 110 CU. YD. THIS VOLUME IS BASED SOLELY ON NEAT LINE VOLUME DIFFERENCES AND DO NOT ACCOUNT FOR CLEARING AND GRUBBING, BULKING OR SHRINKAGE, OVER EXCAVATION, EXCAVATION FOR STRUCTURE, WALLS, OR FOOTINGS, EXCAVATION FOR UTILITIES, ETC. THE VOLUMES PROVIDED ARE FOR REFERENCE ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR.
- 2. EXISTING EARTHEN EMBANKMENTS ARE NOT PERMITTED BY THE STATE OF UTAH. PRESERVE AND PROTECT THE EXISTING SPOIL BERMS PLACED ALONG THE BANK.





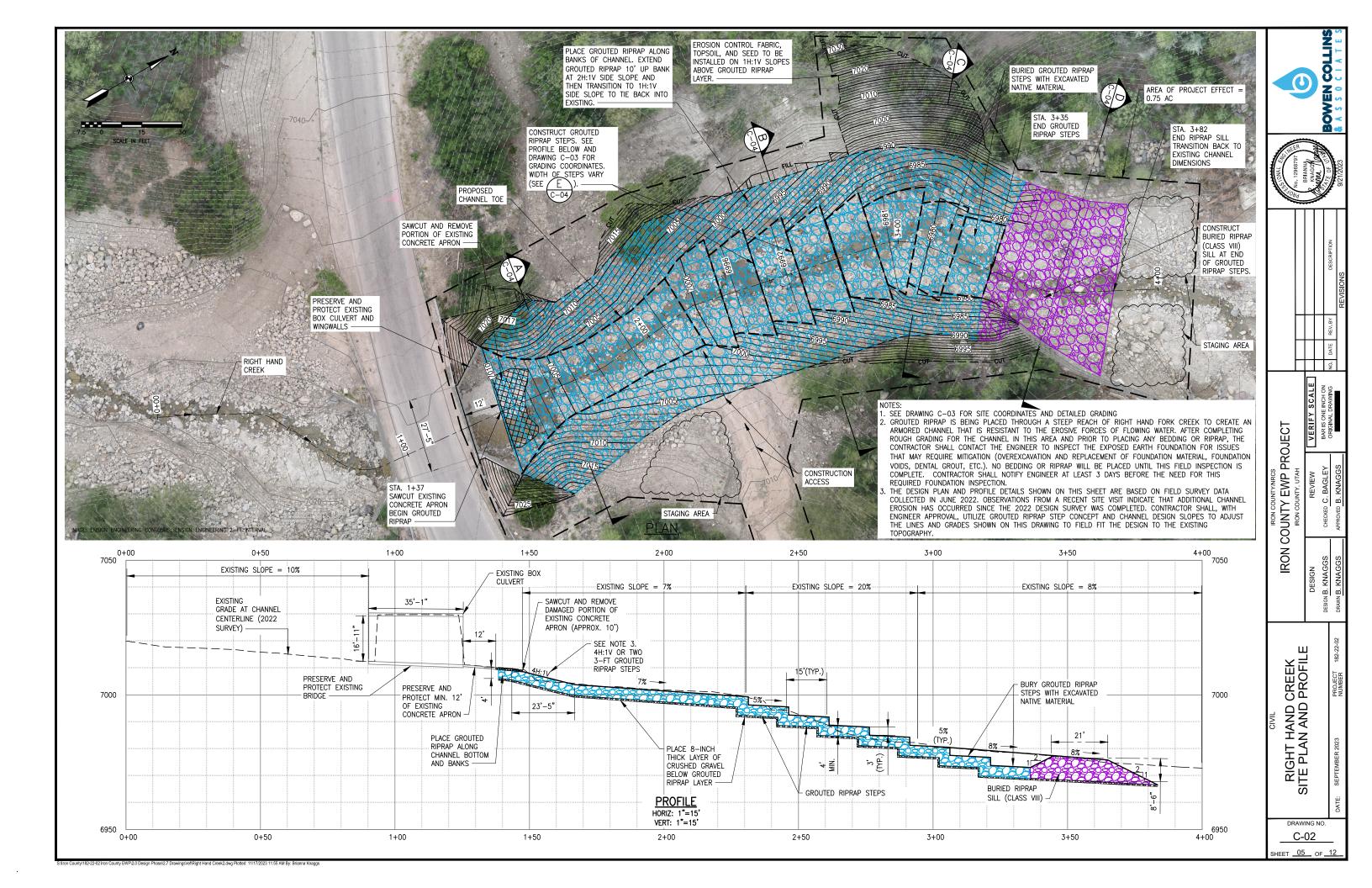
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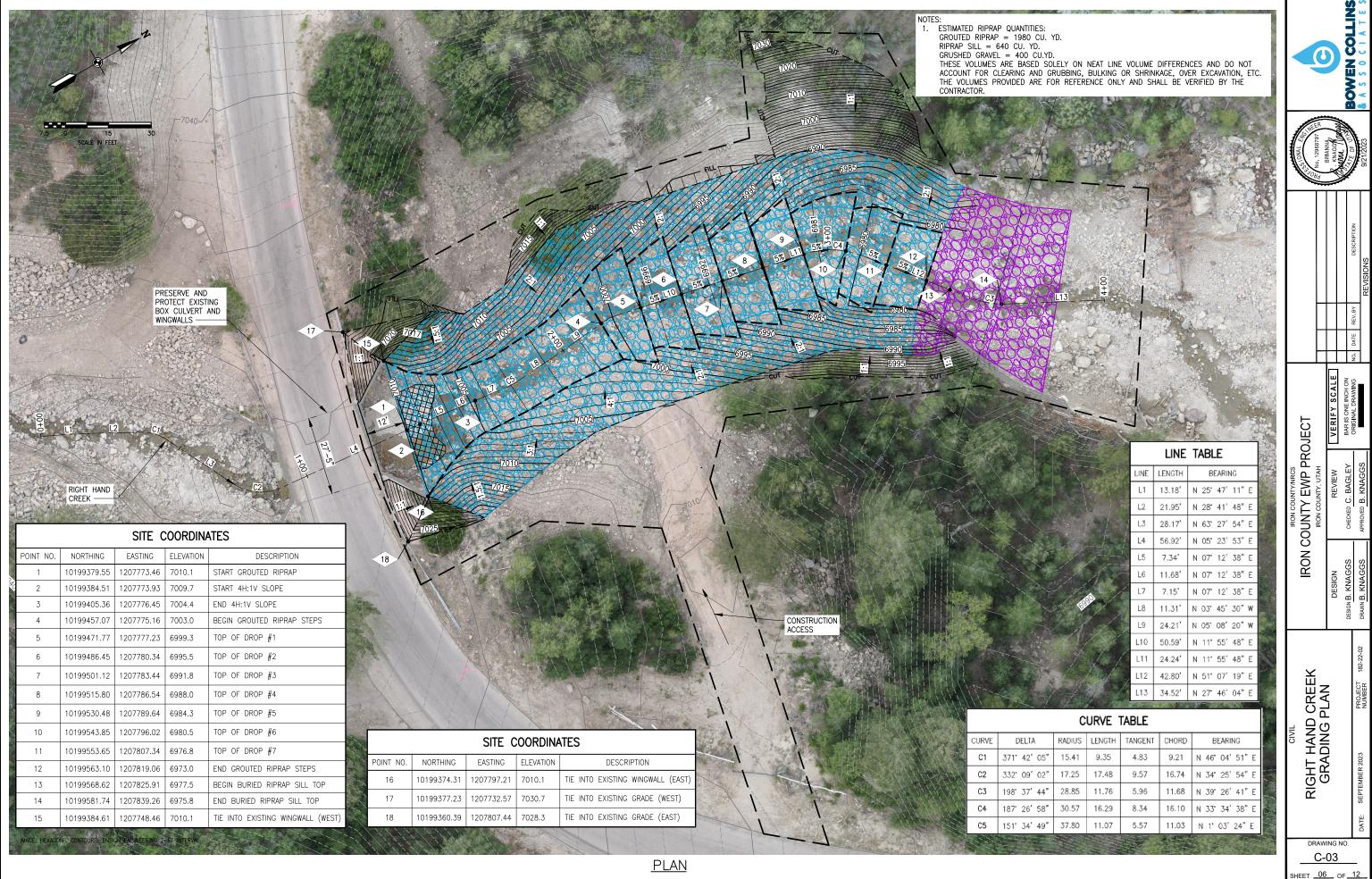
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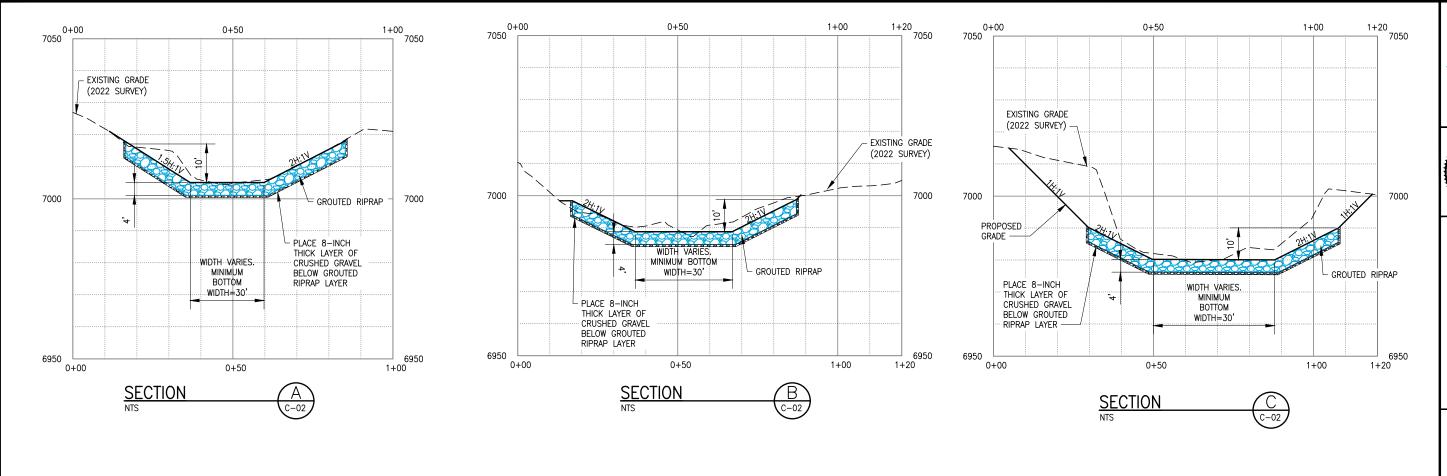
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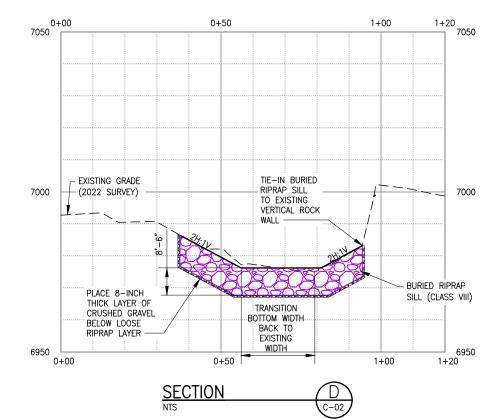
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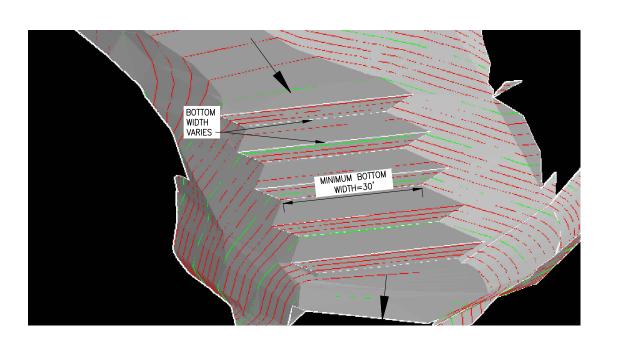
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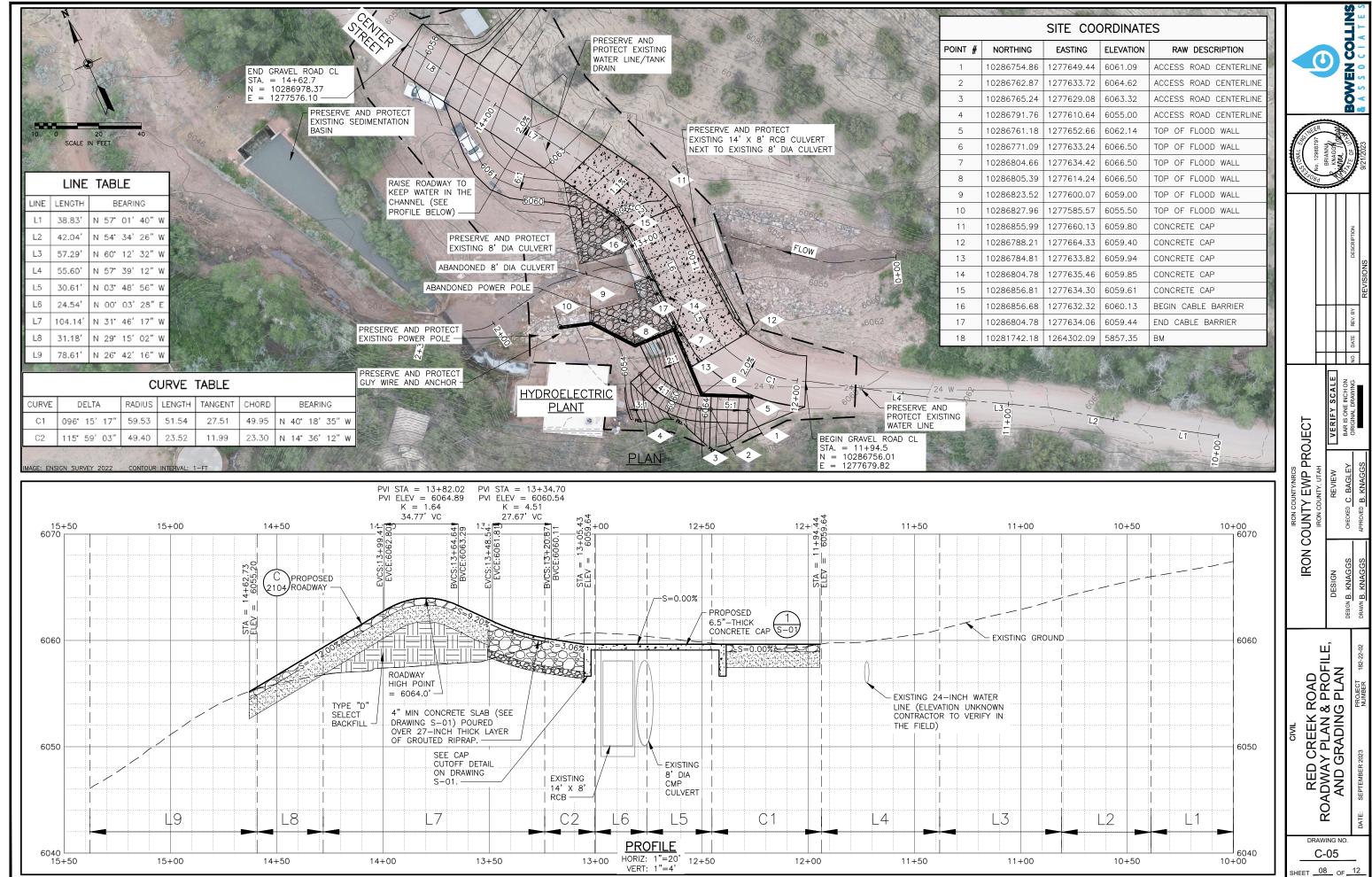
IRON COUNTY EWP PROJECT
IRON COUNTY. UTAH RIGHT HAND CREEK SECTION DETAILS

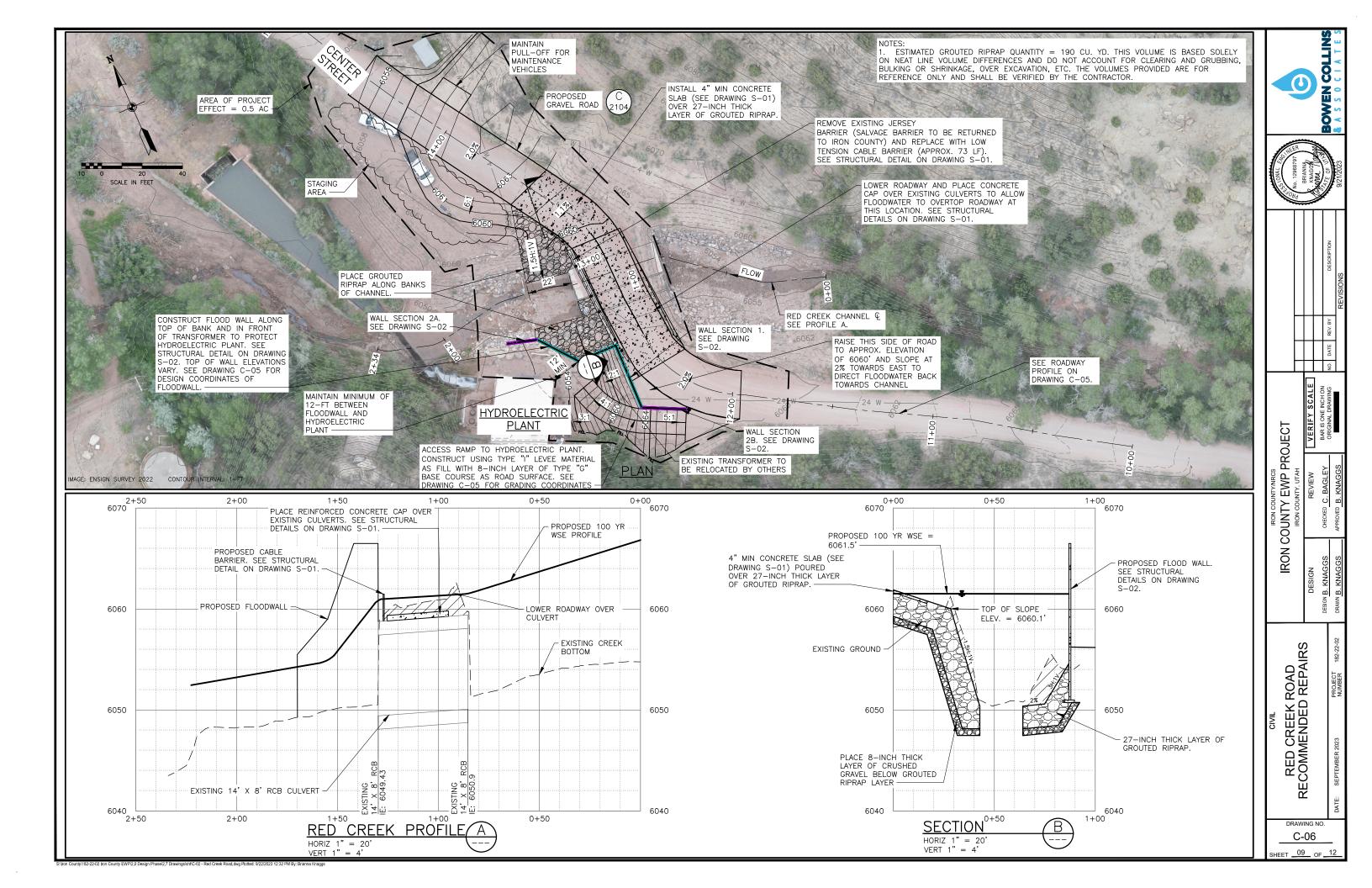
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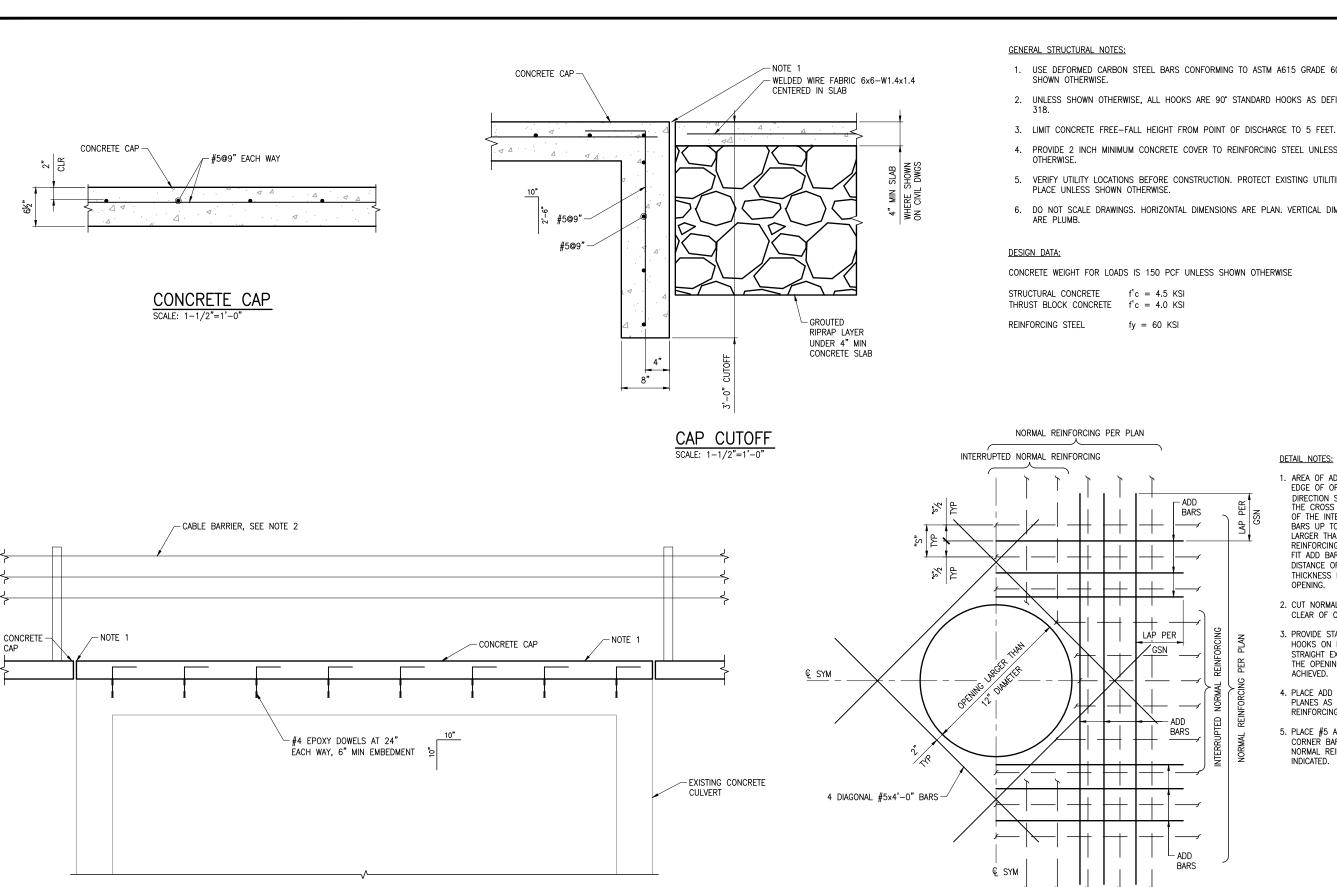
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S:/Iron County/182-22-02 Iron County EWP\2.0 Design Phase\2.7 Drawings\refRight Hand Creek2.dwg Plotted: 9/21/2023 2:55 PM Bv; Brianna Knaggs







1. 1" OPEN JOINT IN CONCRETE CAP. DO NOT CONTINUE REINFORCING THROUGH JOINT. FILL GAP WITH PREMOLDED JOINT FILLER. TYPICAL EACH END OF CULVERT.

2. NUCOR NU-CABLE LOW-TENSION 3-WIRE CABLE BARRIER OR

EQUAL. FOR END TREATMENT LOCATIONS SEE CIVIL DRAWINGS.

- USE DEFORMED CARBON STEEL BARS CONFORMING TO ASTM A615 GRADE 60, UNLESS
- 2. UNLESS SHOWN OTHERWISE, ALL HOOKS ARE 90° STANDARD HOOKS AS DEFINED IN ACI
- 4. PROVIDE 2 INCH MINIMUM CONCRETE COVER TO REINFORCING STEEL UNLESS SHOWN
- 5. VERIFY UTILITY LOCATIONS BEFORE CONSTRUCTION. PROTECT EXISTING UTILITIES IN PLACE UNLESS SHOWN OTHERWISE.
- 6. DO NOT SCALE DRAWINGS. HORIZONTAL DIMENSIONS ARE PLAN. VERTICAL DIMENSIONS

CONCRETE WEIGHT FOR LOADS IS 150 PCF UNLESS SHOWN OTHERWISE

DETAIL NOTES:

- 1. AREA OF ADD BARS AT EACH EDGE OF OPENING IN EACH DIRECTION SHALL MATCH ½
 THE CROSS SECTIONAL AREA
 OF THE INTERRUPTED BARS. LARGER THAN NORMAL REINFORCING MAY BE USED. FIT ADD BARS WITHIN A DISTANCE OF 2X WALL/SLAB THICKNESS FROM EDGE OF OPENING.
- 2. CUT NORMAL REINFORCING 2" CLEAR OF OPENING.
- 3. PROVIDE STANDARD ACI HOOKS ON BARS/DOWELS IF STRAIGHT EXTENSION PAST THE OPENING CANNOT BE ACHIEVED.
- 4. PLACE ADD BARS IN SAME PLANES AS NORMAL REINFORCING INDICATED.
- 5. PLACE #5 ADD DIAGONAL CORNER BARS UNDER NORMAL REINFORCING INDICATED.

ADDITIONAL REINFORCING AT CIRCULAR WALL OPENINGS

DRAWING NO. S-01

SHEET 10 OF 12

RED CREEK ROAD STRUCTURAL DETAILS

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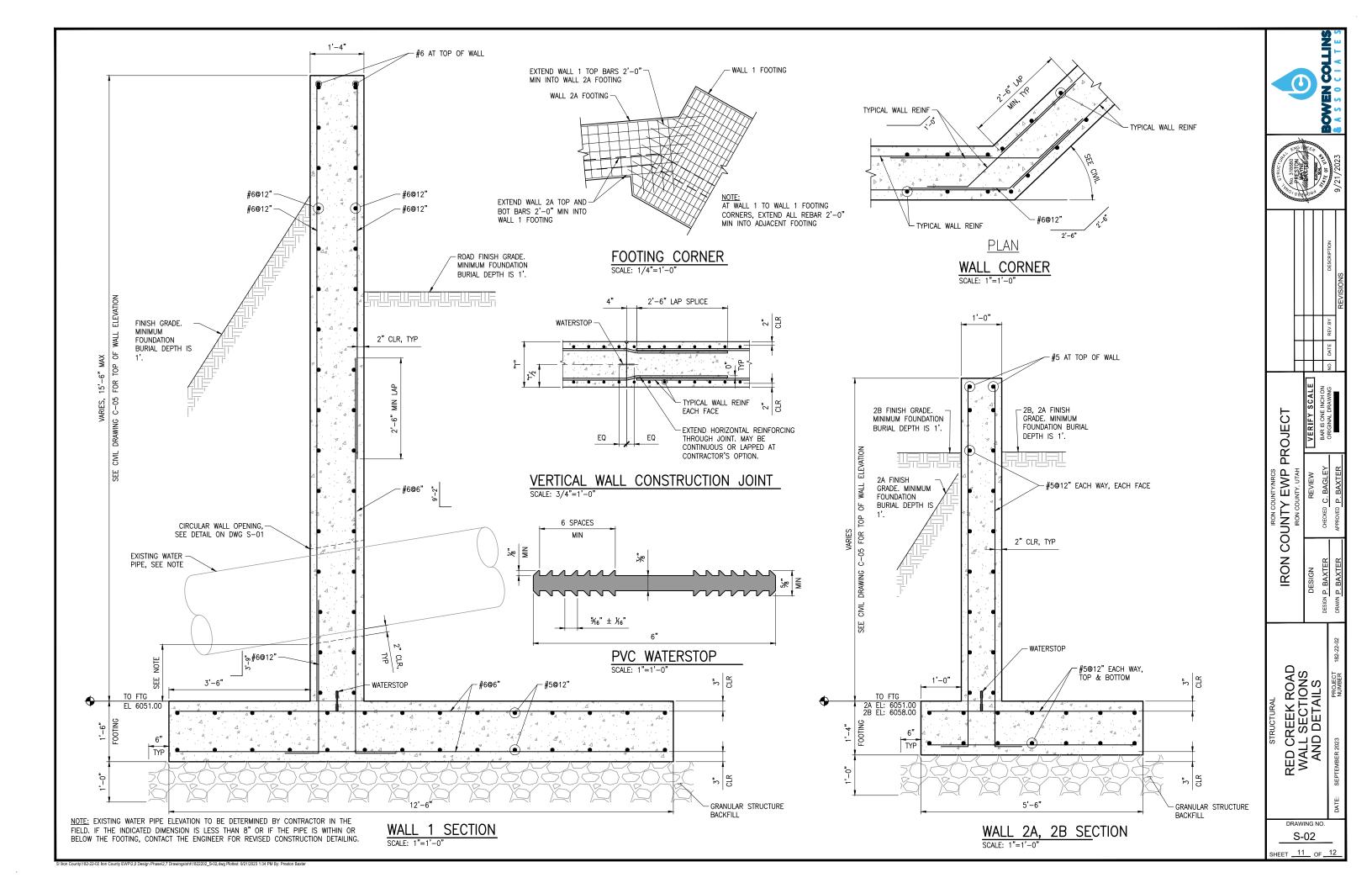
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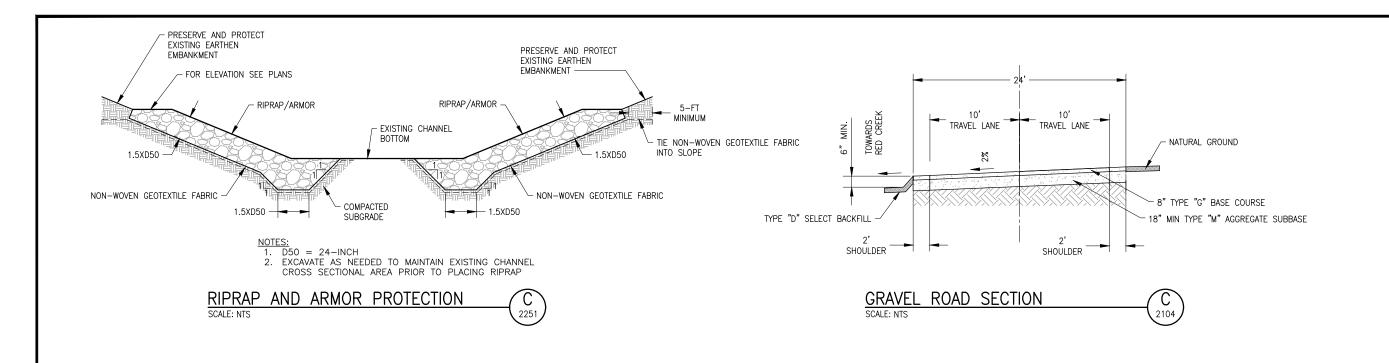
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CAP CONNECTION AT CULVERT





IRON COUNTY EWP PROJECT IRON COUNTY UTAH CIVIL DETAILS DRAWING NO. GC-01 SHEET 12 OF 12

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