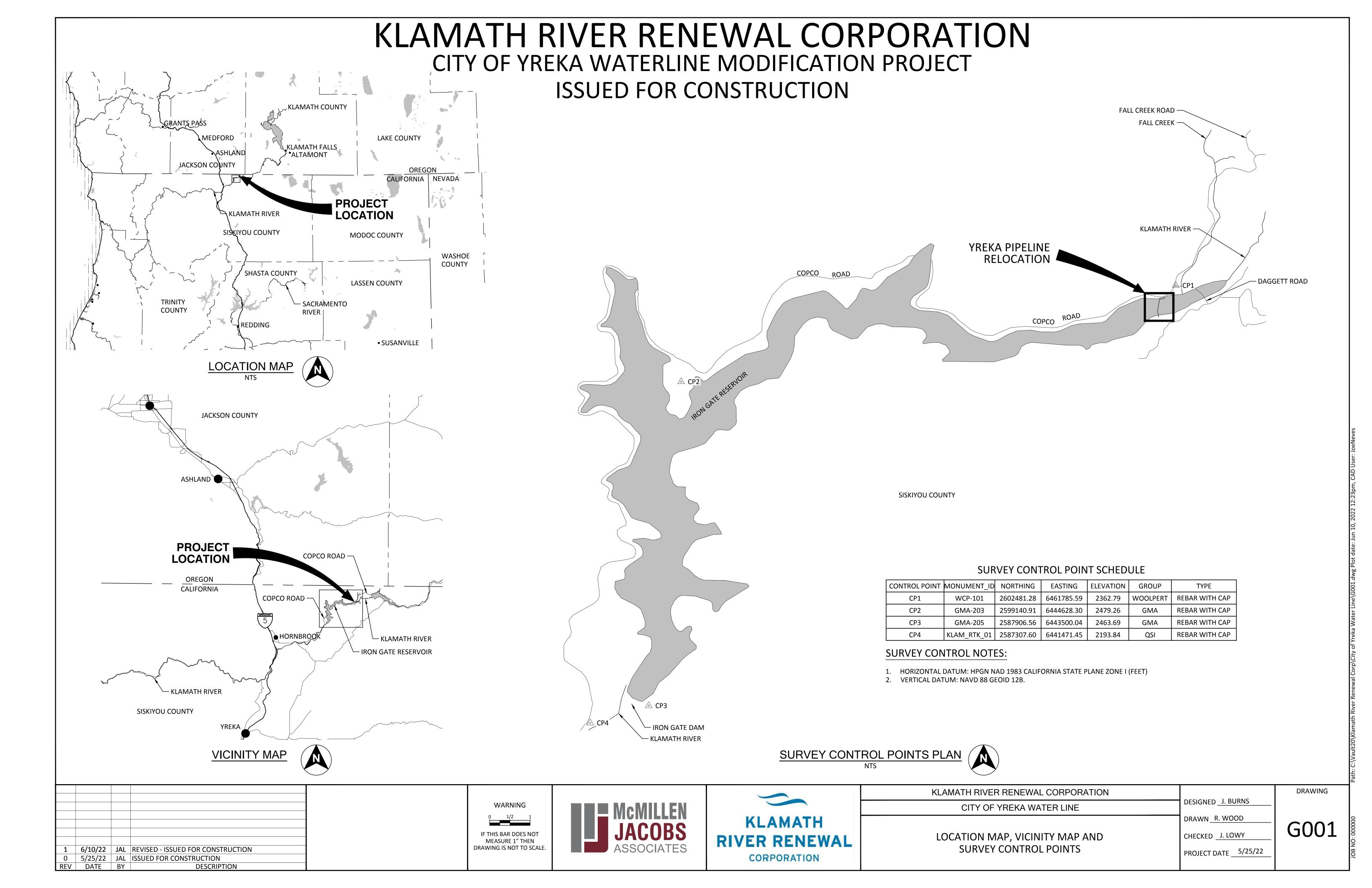




KLAMATH RIVER RENEWAL CORPORATION CITY OF YREKA WATER LINE

VOLUME 2 - CONSTRUCTION DRAWINGS JUNE, 2022

ISSUED FOR CONSTRUCTION



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1 6/10/22 JAL ADDENDUM NO. 01
0 5/25/22 JAL ISSUED FOR CONSTRUCTION
REV DATE BY DESCRIPTION







KLAMATH RIVER RENEWAL CORPORATION	L DUDNIG	
CITY OF YREKA WATER LINE	DESIGNED J. BURNS	
	DRAWN R. WOOD	
DRAWING INDEX	CHECKED J. LOWY	
DIAVIIIO IIIDEA	PROJECT DATE5/25/22	

DRAWING

G002

2

	T	1 -				
A/C AIR CONDITIONING A/E ARCHITECT/ENGINEER	CMH COMMUNICATION MANHOLE CMU CONCRETE MASONRY UNIT	F TO F FACE TO FACE FAB FABRICATE	I INSTRUMENTATION (DWG DISCIPLINE) ID INSIDE DIAMETER, INTERIOR DIMENSION	N NORTH, NEUTRAL NA NOT APPLICABLE	RET RETAINING, RETURN REV REVISION, REVERSE	V VENT, VELOCITY, VOLT VA VOLT AMPERE
A ARCHITECT/ENGINEER A ARCHITECTURAL (DWG DISCIPLINE), AMP	CO CLEAN OUT, CONCRETE OPENING	FBO FURNISHED BY OWNER	IE INVERT ELEVATION	NAT NATURAL	RFL REFLECTED, REFLECTOR	VAC VACUUM
AB ANCHOR BOLT	COL COLUMN	FC FLUSHING CONNECTION	IF INSIDE FACE	NC NORMALLY CLOSED	RGS RIGID GALVANIZED STEEL	VAR VARNISH, VARIABLE, VOLT AMPERES REACTIVE
ABC AGGREGATE BASE COURSE ABAN ABANDON	COM COMMON COMB COMBINATION	FCA FLANGED COUPLING ADAPTER FCV FIXED CONE VALVE	IFC ISSUED FOR CONSTRUCTION IH INTAKE HOOD	NEG NEGATIVE NF NEAR FACE, NON-FUSED	RH RELIEF HOOD, RIGHT HAND, RELATIVE HUMIDITY	VB VAPOR BARRIER, VINYL BASE, VALVE BOX VC VERTICAL CURVE
AC ALTERNATING CURRENT	COMM COMMUNICATION	FD FLOOR DRAIN	IMP IMPACT	NG NATURAL GAS	RL REQUIRED LAP	VCT VINYL COMPOSITION TILE, VERTICAL
ACST ACOUSTIC	COMP COMPOSITION, COMPRESSIBLE, COMPOSITE	FDC FLEXIBLE DUCT CONNECTION	IN INCH	NIC NOT IN CONTRACT	RND ROUND	CENTERLINE
AD ADDENDUM, AREA DRAIN ADDL ADDITIONAL	CONC CONCENTRIC, CONCRETE CONN CONNECTION	FDR FEEDER FE FLANGED END	INC INCLUDE, INCANDESCENT INF INFLUENT	NO NORMALLY OPEN, NUMBER NOM NOMINAL	RNG RENEWABLE NATURAL GAS RO ROUGH OPENING	VEL VELOCITY VENT VENTILATION
ADH ADHESIVE	CONST CONSTRUCTION	FEC FIRE EXTINGUISHER CABINET	INSTR INSTRUMENTATION	NPS NOMINAL PIPE SIZE	ROW RIGHT-OF-WAY	VERT VERTICAL
ADJ ADJUSTABLE, ADJACENT	CONT CONTINUOUS, CONTINUED	FEXT FIRE EXTINGUISHER	INSUL INSULATION	NPT NATIONAL PIPE THREAD	RPM REVOLUTIONS PER MINUTE	VS VERSES, VAPOR SEAL
AF AMP FRAME, AMP FUSE	COORD COORDINATE CORR CORROSIVE, CORRUGATED	FF FAR FACE, FACTORY FINISH, FLAT FACE FG FINISHED GRADE	INT INTERIOR, INTERSECTION INTR INTERMEDIATE, INTERIOR	NS NEAR SIDE NTS NOT TO SCALE	RR RAILROAD RT RIGHT	VOL VOLUME VPC VERTICAL POINT OF CURVATURE
AFF ABOVE FINISH FLOOR AFG ABOVE FINISH GRADE	CP CHECKER PLATE, CONTROL POINT	FIG FIGURE	INV INVERT	NWL NORMAL WATER LEVEL	KI KIGITI	VPI VERTICAL POINT OF INTERSECTION
AGGR AGGREGATE	CPLG COUPLING	FH FIRE HYDRANT	IPS IRON PIPE SIZE		S SOUTH, SINK, STRUCTURAL (DWG DISCIPLINE)	
AIC AMPS INTERRUPTING CAPACITY	CSK COUNTERSINK CTR CENTER	FIN FINISH	IPT INTERNAL PIPE THREAD IRR IRRIGATION	O TO O OUT-TO-OUT OA OUTSIDE AIR, OVERALL	SA SUPPLY AIR	VTR VENT THROUGH ROOF VWC VINYL WALL COVERING
ALIG ALIGNMENT ALUM ALUMINUM	CTRL CONTROL	FL FLOW, FLOW LINE, FLANGE FLEX FLEXIBLE	ISO ISOMETRIC	OC ON CENTER	SAN SANITARY SC SOLID CORE	VVC VINTE WALL COVERING
ALT ALTERNATE, ALTITUDE	CU COPPER, CUBIC	FLG FLANGE		OCPD OVER CURRENT PROTECTION DEVICE	SCH SCHEDULE	W/ WITH
AMB AMBIENT	CW CLOCKWISE	FLOR FLUORESCENT	JB JUNCTION BOX	OD OUTSIDE DIAMETER OH OVERHEAD	SCHEM SCHEMATIC	W/O WITHOUT
ANC ANCHOR AP ACCESS PANEL	CY CUBIC YARD	FLR FLOOR FLS FLASHING, FLUSH	JCT JUNCTION JF JOINT FILLER	OH OVERHEAD OPNG OPENING	SCRN SCREEN SE STEEL/ALUMINUM EDGE	W WATT, WEST, WIDE, WINDOW, WIRE, WIDE FLANGE BEAM
APRX APPROXIMATE	d PENNY (NAIL MEASURE)	FND FOUNDATION	JT JOINT	OPP OPPOSITE	SEC SECONDARY, SECONDS	WC WATER CLOSET, WATER COLUMN
APVD APPROVED ARCH ARCHITECTURAL	D DEEP, DIFFUSER	FNC FENCE		OPT OPTIONAL	SECT SECTION	WD WIDTH
ASSY ASSEMBLY AT AMP TRIP	DB DUCT BANK, DECIBEL, DRY BULB DBA DEFORMED BAR ANCHOR	FO FINISHED OPENING FOB FLAT ON BOTTOM	K KIP KB KNEE BRACE	ORD OVERFLOW ROOF DRAIN ORIG ORIGINAL	SEP SEPARATE SF SQUARE FOOT	WF WIDE FLANGE, WASH FOUNTAIN WG WIRE GLASS, WATER GAGE
ATM ATMOSPHERE	DBL DOUBLE	FOC FACE OF CONCRETE, FACE OF CURB, FIBER	KCMIL THOUSAND CIRCULAR MILS	OVFL OVERFLOW	SH SHOWER	WH WALL HYDRANT, WEEP HOLE
AUTO AUTOMATIC	DC DIRECT CURRENT	OPTIC CABLE	KD KNOCK DOWN	OVHG OVERHANG	SHT SHEET	WL WATER LEVEL
AUX AUXILIARY AVE AVENUE	DEG DEGREE DEG C DEGREE CENTIGRADE	FOF FACE OF FINISH FOM FACE OF MASONRY	KO KNOCK OUT KSI KIPS PER SQUARE INCH	OZ OUNCE	SHTG SHEATHING	WLD WELDED
AVE AVENUE AVG AVERAGE	DEG F DEGREE FAHRENHEIT	FOS FACE OF STUDS	NOI NII O I EN OQUANE INCH	P PAINT, PROCESS (DWG DISCIPLINE)	SIM SIMILAR SL SLOPE	WM WIRE MESH WP WATERPROOF, WORKING POINT
AWG AMERICAN WIRE GAGE	DEMO DEMOLITION	FOT FLAT ON TOP	L ANGLE, LENGTH, LAVATORY	PAR PARALLEL, PARAPET	SLTD SLOTTED	WTHP WEATHERPROOF
	DEP DEPRESSED	FPT FEMALE PIPE THREAD	LAM LAMINATE	PB PANIC BAR, PULL BOX	SLV SLEEVE	WS WATERSTOP, WATER SURFACE
B/B BACK TO BACK BAL BALANCE	DEPT DEPARTMENT DET DETAIL	FR FRAME FRP FIBERGLASS REINFORCED PLASTIC	LATL LATERAL LB LAG BOLT, POUND	PBD PARTICLE BOARD PC POINT OF CURVE, PIECE, PRECAST	SMLS SEAMLESS SOG SLAB ON GRADE	WSEL WATER SURFACE ELEVATION WT WEIGHT, WATER TIGHT
BBD BULLETIN BOARD	DI DROP INLET, DUCTILE IRON	FS FLOOR SINK, FAR SIDE	LDR LEADER	PCC POINT OF COMPOUND CURVATURE	SP SOUNDPROOF, STANDPIPE	WWF WELDED WIRE FABRIC
BC BASE CABINET, BOTTOM CHORD, BOLT	DIA DIAMETER	FT FEET, FOOT	LF LINEAR FOOT	PCF POUNDS PER CUBIC FOOT	SPC SPACING	
CENTER, BOLT CIRCLE BD BOARD	DIAG DIAGONAL, DIAGRAM DIFF DIFFERENTIAL, DIFFERENCE	FTG FOOTING, FITTING FUR FURRED, FURRING FURN FURNITURE, FURNISH	LG LONG LH LEFT HAND	PCT PERCENT PE PLAIN END	SPEC SPECIFICATION SPLY SUPPLY	XS EXTRA STRONG XXS DOUBLE EXTRA STRONG
BE BOTH ENDS, BELL END	DIM DIMENSION	FUT FUTURE	LIN LINEAR	PED PEDESTAL	SPT SET POINT	XSECT CROSS SECTION
BF BOTH FACES, BOTTOM FACE, BLIND	DISCH DISCHARGE	FV FACE VELOCITY	LIQ LIQUID	PEN PENETRATION	SQ SQUARE	
FLANGE, BOARD FEET	DIST DISTANCE, DISTRIBUTION DIV DIVISION	FW FIELD WELD, FIRE WALL FWD FORWARD	LL LIVE LOAD LLH LONG LEG HORIZONTAL	PERF PERFORATED PERM PERMANENT	SS SERVICE SINK	YH YARD HYDRANT
BFV BUTTERFLY VALVE BITUM BITUMINOUS	DL DEAD LOAD	FWE FURNISHED WITH EQUIPMENT	LLV LONG LEG TIONIZONTAL	PERP PERPENDICULAR	SST STAINLESS STEEL ST STREET	YS YIELD STRENGTH
BKG BACKING	DN DOWN	FXTR FIXTURE	LMLU LIQUID MARKER LECTURE UNIT	PF POWER FACTOR	STA STATION	
BL BASE LINE	DP DEPTH	C COULT COOLING CENEDAL (DIAC DISCIPLINE)	LNG LOCATION	PH PHASE	STD STANDARD	
BLDG BUILDING BLK BLOCK	DS DOWN SPOUT DT DOUBLE TEE, DRIP TRAP ASSEMBLY	G GRILLE, GROUND, GENERAL (DWG DISCIPLINE) GA GAGE (METAL THICKNESS)	LOC LOCATION LP LOW POINT	PI POINT OF INTERSECTION PKG PACKAGE	STIF STIFFENER STIR STIRRUP	
BLKG BLOCKING	DUP DUPLICATE	GAL GALLON	LPS LOW PRESSURE SODIUM	PL PLATE, PROPERTY LINE	STL STEEL	
BM BENCHMARK, BEAM	DWG DRAWING	GALV GALVANIZED	LR LONG RADIUS	PLBG PLUMBING	STOR STORAGE	
BOC BACK OF CURB	DWL DOWEL	GB GRADE BREAK GD GUARD	LT LEFT LTD LIMITED	PLF POUNDS PER LINEAR FOOT PNEU PNEUMATIC	STR STRUCTURAL, STRAIGHT	
BOD BOTTOM OF DUCT BOG BOTTOM OF GRILLE	E EAST, ELECTRICAL (DWG DISCIPLINE)	GD GUARD GEN GENERAL	LTG LIGHTING	POS POSITIVE, POSITION	SUB SUBSTITUTE SUC SUCTION	
BOL BOTTOM OF LOUVER	EA EACH, EXHAUST AIR	GFCI GROUND FAULT CIRCUIT INTERRUPTER	LTL LINTEL	PP POLYPROPYLENE, POWER POLE	SUSP SUSPENDED	AGENCY AND PROJECT ABBREVIATIONS:
BOP BOTTOM OF PIPE	EC ELECTRICAL CONTRACTOR	GL GLASS	LTNG LIGHTNING LV LOW VOLTAGE	PRC POINT OF REVERSE CURVATURE PREF PREFINISHED	SY SQUARE YARD	V CONTROL CONT
BOR BOTTOM OF REGISTER BOT BOTTOM	ECC ECCENTRIC EDB ELECTRICAL DUCT BANK	GP GUY POLE GR GRADE	LVR LOUVER	PREFAB PREFABRICATED	SYM SYMBOL Z—SYMM SYMMETRICAL	FBE FUSION BONDED EPOXY KRRC KLAMATH RIVER RENEWAL CORPORATION
BOU BOTTOM OF UNIT	EE EACH END	GRND GROUND	LW LIGHTWEIGHT	PRELIM PRELIMINARY	SYN SYNTHETIC	KRRP KLAMATH RIVER RENEWAL PROJECT
BP BASE PLATE	EF EACH FACE	GRTG GRATING	LWC LIGHTWEIGHT CONCRETE LWL LOW WATER LEVEL	PREP PREPARE	SYS SYSTEM	OHWM ORDINARY HIGH WATER MARK
BRG BEARING BRGP BEARING PLATE	EG EXISTING GRADE EGL ENERGY GRADE LINE	GT GREASE TRAP GWB GYPSUM WALLBOARD	LWL LOW WATER LEVEL	PRES PRESSURE PROP PROPERTY	T&B TOP AND BOTTOM	
BRKT BRACKET	EFF EFFLUENT, EFFICIENCY	GYP GYPSUM HARDBOARD	M MECHANICAL (DWG DISCIPLINE)	PROT PROTECTION	T&G TONGUE AND GROOVE	
BS BOTH SIDES	EHH ELECTRICAL HANDHOLE		MA MIXED AIR	PSF POUNDS PER SQUARE FOOT	T TILE, TREAD	GENERAL NOTES:
BTU BRITISH THERMAL UNIT BTW BETWEEN	EIFS EXTERIOR INSULATION & FINISH SYSTEM EJ EXPANSION JOINT	H HIGH HB HOSE BIB	MAINT MAINTENANCE MAN MANUAL	PSI POUNDS PER SQUARE INCH PSIA POUNDS PER SQUARE INCH ABSOLUTE	TA TEMPERED AIR TAN TANGENT	<u> </u>
BTWLD BUTT WELD	EL ELBOW, ELEVATION	HBD HARDBOARD	MAOP MAXIMUM ALLOWABLE OPERATING	PSIG POUNDS PER SQUARE INCH ABSOLUTE PSIG POUNDS PER SQUARE INCH GAGE	TBM TEMPORARY BENCHMARK	1. THESE ABBREVIATIONS APPLY TO THE ENTIRE
BV BALL VALVE	ELEC ELECTRICAL	HC HANDICAPPED, HOLLOW CORE, HORIZONTAL	PRESSURE	PT POINT, POINT OF TANGENCY	TEMP TEMPORARY, TEMPERATURE	SET OF CONTRACT DRAWINGS.
BW BOTH WAYS	EMBD EMBEDDED EMER EMERGENCY	CURVE HC HORIZONTAL CENTERLINE	MATL MATERIAL MAX MAXIMUM	PTN PARTITION PVC POLYVINYL CHLORIDE	THK THICK	2. LISTING OF ABBREVIATIONS DOES NOT IMPLY
BYP BYPASS	EMH ELECTRICAL MANHOLE	HDR HEADER	MB MACHINE BOLT	PVC POLIVINIL CHLORIDE PVMT PAVEMENT	THRD THREAD THRU THROUGH	ALL ABBREVIATIONS ARE USED IN THE
C TO C CENTER TO CENTER	ENCL ENCLOSURE	HDW HARDWARE	MBR MEMBER	PWD PLYWOOD	TOB TOP OF BOLT, TOP OF BANK, TOP OF BEAM	CONTRACT DRAWINGS.
C&G CURB & GUTTER	ENGR ENGINEER	HEX HEXAGONAL	MCJ MASONRY CONTROL JOINT MECH MECHANICAL	PZ PIEZOMETER	TOC TOP OF CURB, TOP OF CONCRETE	3. ABBREVIATIONS SHOWN ON THIS SHEET
C CHANNEL SHAPE, CENTIGRADE, CONDUIT, CIVIL (DRAWING DISCIPLINE)	ENTR ENTRANCE EOP EDGE OF PAVEMENT	HH HANDHOLE HM HOLLOW METAL	MECH MECHANICAL MED MEDIUM	Q RATE OF FLOW	TOD TOP OF DUCT TOF TOP OF FOOTING	INCLUDE VARIATIONS OF THE WORD. FOR
CAP CAPACITY	EOW EDGE OF WATER	HORIZ HORIZONTAL	MFR MANUFACTURER	QTR QUARTER	TOG TOP OF GRATING	EXAMPLE, "MOD" MAY MEAN MODIFY OR
CAT CATALOG	EQ EQUAL	HP HIGH POINT, HORSEPOWER	MH MANHOLE, METAL HALIDE	QTY QUANTITY	TOL TOLERANCE, TOP OF LEDGER	MODIFICATION; "INC" MAY MEAN INCLUDED OR INCLUDING; "REINF" MAY MEAN EITHER
CAV CAVITY	EQUIP EQUIPMENT EQUIV EQUIVALENT	HPC HORIZONTAL POINT OF CURVATURE HPS HIGH PRESSURE SODIUM	MIN MINIMUM MIR MIRROR	QUAL QUALITY	TOM TOP OF MASONRY TOP TOP OF PLATE	REINFORCE OR REINFORCING.
CB CATCH BASIN CCB CONCRETE BLOCK	ES EACH SIDE, EQUAL SPACE, EMERGENCY	HPT HORIZONTAL POINT OF TANGENCY	MISC MISCELLANEOUS	R&R REMOVE AND REPLACE	TOP TOP OF PLATE TOPO TOPOGRAPHY	
CCW COUNTER CLOCKWISE	SHOWER	HR HOUR	MJ MECHANICAL JOINT	R&S REMOVE AND SALVAGE	TOS TOP OF SLAB, TOP OF STEEL	4. SCREENING OR SHADING OF WORK IS USED
CF CUBIC FEET (FOOT)	ESEW EMERGENCY SHOWER AND EYE WASH	HS HEADED STUD, HIGH STRENGTH	MMB MEMBRANE MO MASONRY OPENING	R RADIUS, REGISTER, RISER RA RETURN AIR	TOW TOP OF WALL	TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS
CHFR CHAMFER CHD CHORD	EST ESTIMATE EW EACH WAY, EMERGENCY EYE/FACE WASH	HSS HOLLOW STRUCTURAL SHAPE HT HEIGHT	MOD MODULAR, MODIFY	RB RESILIENT BASE, ROCK BERM	TP TELEPHONE POLE, TOE PLATE, TRAP PRIMER TPG TOPPING	TO HIGHLIGHT SELECTED TRADE WORK.
CHH COMMUNICATION HANDHOLE	EWC ELECTRIC WATER COOLER	HV HIGH VOLTAGE	MON MONUMENT	RCPT RECEPTACLE	TRANS TRANSITION	REFER TO CONTEXT OF EACH SHEET FOR
CI CURB INLET	EWEF EACH WAY, EACH FACE	HVAC HEATING, VENTILATION & AIR CONDITIONING	MPT MALE PIPE THREAD	RD ROOF DRAIN	TRD TRENCH DRAIN	USAGE.
CIP CAST-IN-PLACE	EWTB EACH WAY, TOP AND BOTTOM EXC EXCAVATION	HWD HARDWOOD HWL HIGH WATER LEVEL	MSL MEAN SEA LEVEL MT MOUNT	REC RECESS RECD RECEIVED	TYP TYPICAL	5. SEE SHEET PF001 FOR PROJECT SPECIFIC
CIPB CONCRETE INTERLOCKING PAVER BALLAST	EXC EXCAVATION EXH EXHAUST	HYD HYDRAULIC HZ HERTZ, CYCLES PER SECOND	MU MASONRY UNIT	RECT RECTANGULAR	U URINAL	EQUIPMENT SYMBOLS, EQUIPMENT
CIRC CIRCULATION, CIRCULAR	EXIST EXISTING	, : : : : : : : : : : : : : : : : : : :	MULL MULLION	RED REDUCER	UG UNDERGROUND	ABBREVIATIONS AND PIPING SYSTEM
CJ CONSTRUCTION JOINT, CONTROL JOINT	EXP EXPANSION, EXPOSED		MV MEDIUM VOLTAGE MW MONITORING WELL	REF REFERENCE REINF REINFORCING	ULT ULTIMATE	ABBREVIATIONS.
CKT CIRCUIT CL CENTERLINE, CLASS, CLOSE	EXT EXTERIOR, EXTERNAL, EXTENSION		IVIVV IVICINITOI/IING VV LLL	REINF REINFORCING REQD REQUIRED	UNFN UNFINISHED UNO UNLESS NOTED OTHERWISE	
CLR CLEAR				RESIL RESILIENT	UTIL UTILITY	
			163	KI AMATI	H RIVER RENEWAL CORPORATION	DRAWING
		WARNING				DESIGNED J. BURNS
		VVAINING	McMILLEN	C	ITY OF YREKA WATER LINE	
	l l	0 1/2 1		MATH		DRAWN_R. WOOD

1 6/10/22 JAL ADDENDUM NO. 01
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IF THIS BAR DOES NOT
MEASURE 1" THEN
DRAWING IS NOT TO SCALE.

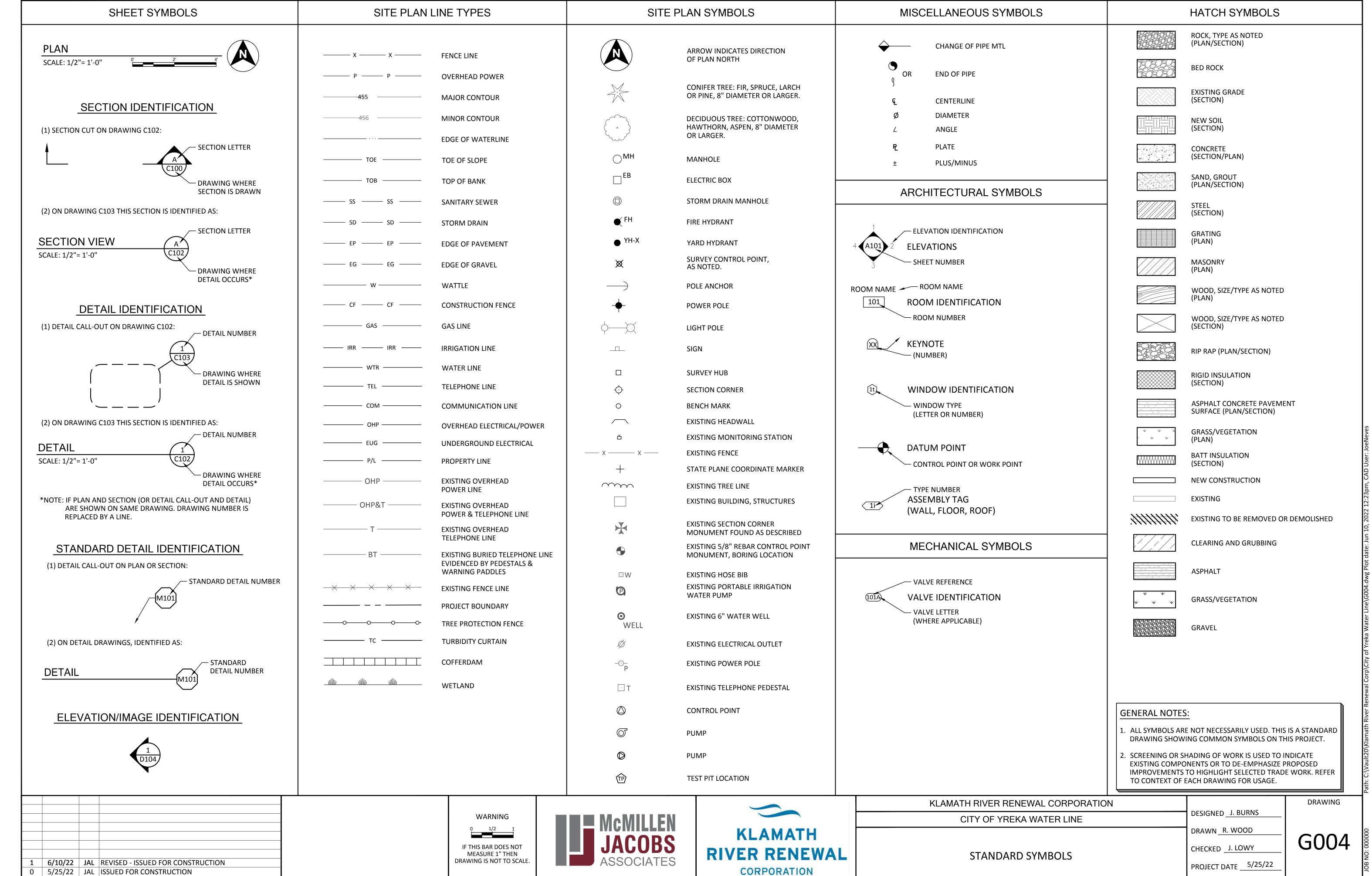




CHECKED J. LOWY PROJECT DATE 5/25/22

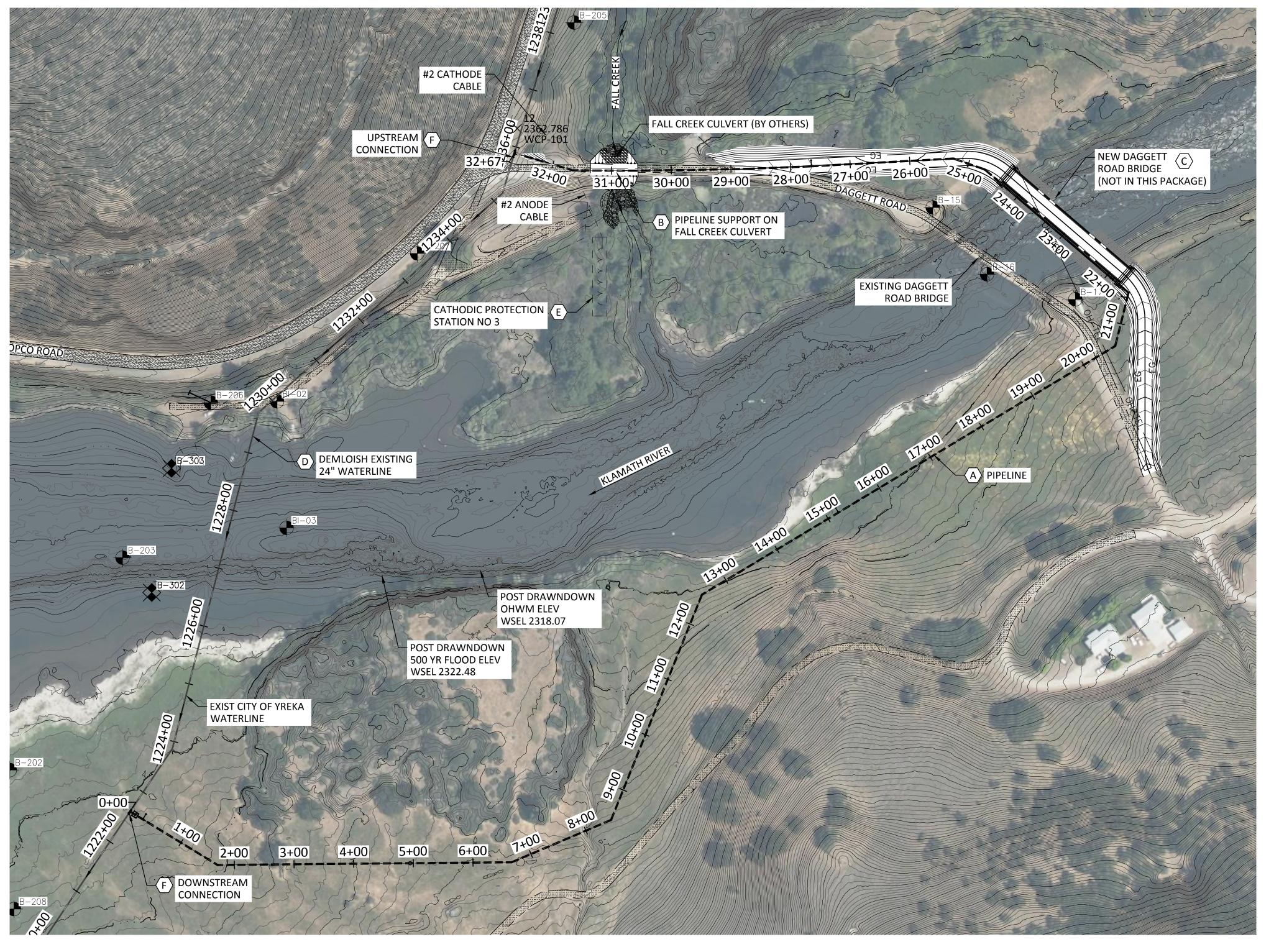
G003

STANDARD ABBREVIATIONS



REV DATE BY

DESCRIPTION



OVERALL SITE PLAN

SCALE: 1"= 100'



SURVEY NOTES:

- 1. LIDAR SURVEY PROVIDED BY KRRC ON NOVEMBER 2020, CONTRACTOR SHALL CONFIRM AND VERIFY ELEVATIONS PRIOR TO CONSTRUCTION.
- 2. THE HORIZONTAL DATUM FOR THE PROJECT IS BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 1 NORTH AMERICAN DATUM OF 1983 (NAD83) IN FEET.
- 3. THE VERTICAL DATUM FOR THE PROJECT IS BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88, GEOID 12B).

\rightarrow MAJOR CONSTRUCTION ITEMS:

(NOT IN ANY SUGGESTED CONSTRUCTION SEQUENCE ORDER)

- A CONSTRUCT NEW PIPELINE.
- B SUPPORT THE PIPELINE AT THE FALL CREEK CULVERT DURING CONSTRUCTION AND REMOVAL.
- C SUPPORT THE PIPELINE ALONG THE NEW DAGGETT ROAD BRIDGE SEE DAGGETT BRIDGE DESIGN PACKAGE FOR PIPELINE SUPPORT.
- D DEMOLISH EXISTING 24" DIAMETER WATERLINE AFTER NEW PIPELINE IS OPERABLE AS APPROVED BY OWNER.
- E RETAIN AND PROTECT EXIST CATHODIC PROTECTION SYSTEM. CONTRACTOR SHALL CONNECT NEW PIPELINE INTO EXISTING CATHODIC PROTECTION SYSTEM.
- F CONNECT TO EXISTING WATERLINE. CONTRACTOR SHALL SUBMIT OUTAGE REQUEST TO OWNER AND ENGINEER.

PROPOSED ENGINEER CONSTRUCTION SEQUENCE:

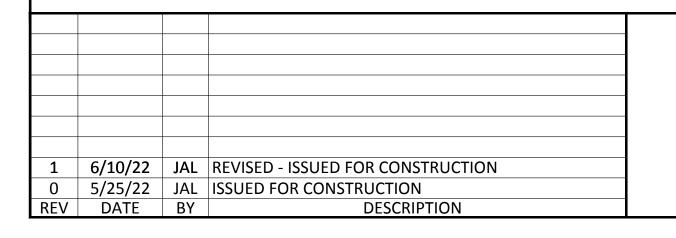
THE CONSTRUCTION SEQUENCE PROPOSED IN THE STEPS BELOW ARE TO INFORM THE CONTRACTOR ON THE ENGINEER'S DESIGN DEVELOPMENT PROCESS. THIS SHALL NOT DICTATE THE CONTRACTOR'S MEANS AND METHODS. CONSTRUCTION ACTIVITIES SHALL BE SCHEDULE AND SEQUENCED TO ENSURE CONTINUOUS OPERATION OF THE CITY RAW WATERLINE TO THE GREATEST EXTENT POSSIBLE. THE OWNER HAS STATED THAT A WATERLINE OUTAGE IS ALLOWED FOR UP TO 20 HOURS IN THE MONTHS OF MAY THROUGH OCTOBER, OR AN OUTAGE IS ALLOWED FOR UP TO 60 HOURS IN THE MONTHS OF NOVEMBER THROUGH APRIL. CONTRACTOR SHALL SUBMIT CONSTRUCTION SEQUENCING AND OUTAGE PLAN FOR OWNER AND ENGINEER APPROVAL PER SPECIFICATION SECTION 01 11 00.

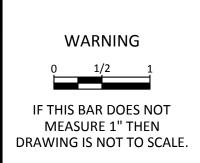
- 1. CONSTRUCT NEW DAGGETT BRIDGE AND NEW YREKA WATERLINE SUPPORTED BELOW THE DAGGETT BRIDGE DECK (SEE DRAWING C105). THE DAGGETT BRIDGE DESIGN AND PIPE SUPPORT DRAWINGS ARE NOT INCLUDED IN THIS PACKAGE. PLEASE REFER TO THE DAGGETT BRIDGE DESIGN PACKAGE PREPARED BY MCMILLEN JACOBS.
- 2. CONSTRUCT NEW 24" OR 25" BURIED PIPELINE UPSTREAM AND DOWNSTREAM OF DAGGETT BRIDGE CROSSING EXCLUDING CONNECTIONS TO THE EXISTING YREKA WATERLINE.
- 3. 48 HR PRESSURE TEST NEW PIPELINE AT 375 PSIG WITH BLIND FLANGES ON EACH END OF PIPELINE. SEE SPECIFICATION SECTION 01 74 30.
- 4. CONNECT TO EXISTING WATERLINE AT UPSTREAM AND
- DOWNSTREAM CONNECTION POINTS (SEE DWG C200 & C201). 5. START UP THE NEW WATERLINE SYSTEM AND OPERATE. INSURE

PROJECT DATE ___5/25/22

- SYSTEM OPERATING PROPERLY FOR MINIMUM 30 DAYS.
- 6. PERFORM DEMOLITION AND REMOVAL OF EXISTING RIVER

CROSSING PIPELINE (SEE DRAWING D101).



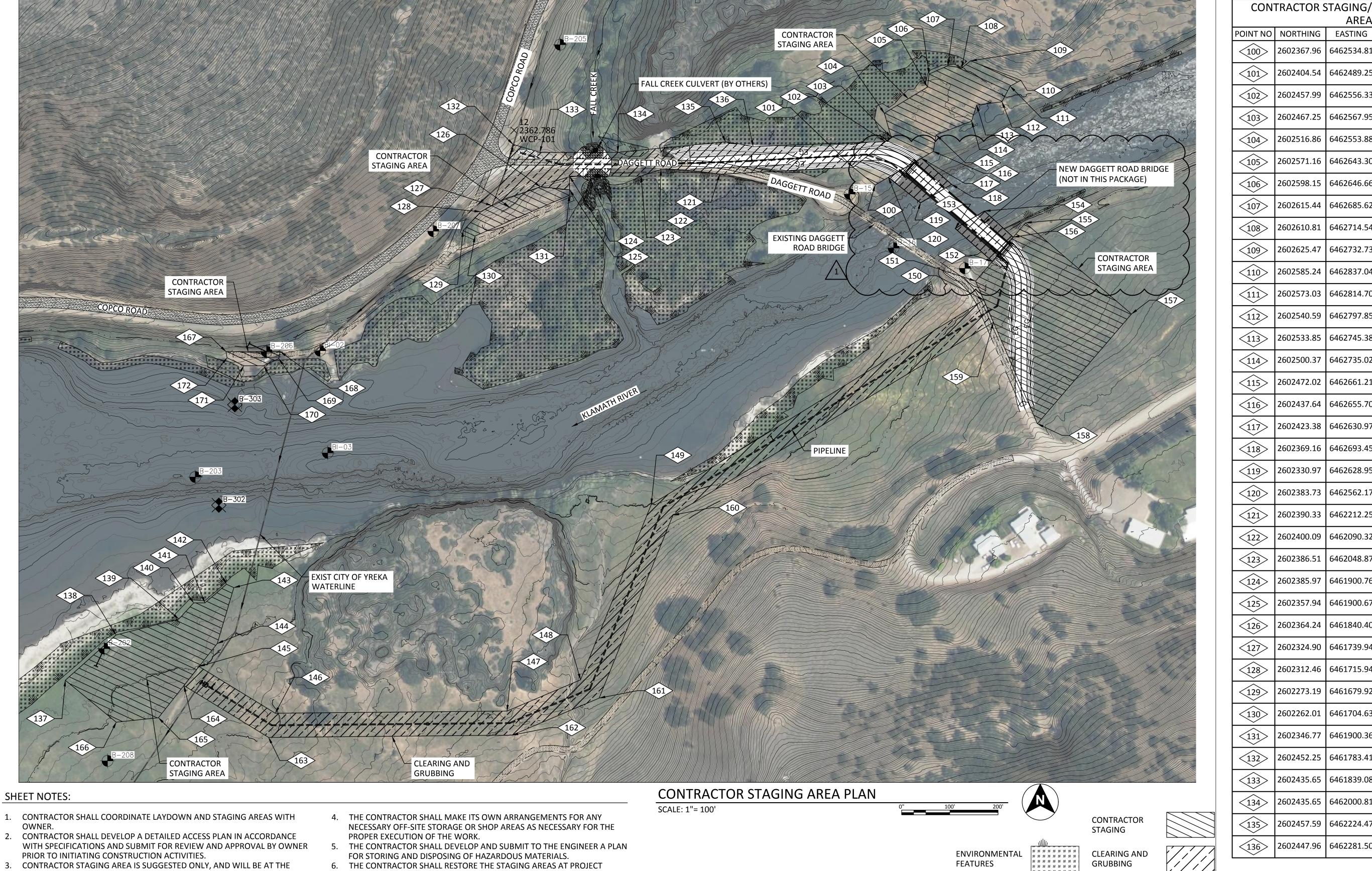






KLAMATH RIVER RENEWAL CORPORATION	DECLEMENT L DUDNIC	
CITY OF YREKA WATER LINE	DESIGNED J. BURNS	
	DRAWN R. WOOD	
OVERALL PLAN AND PROJECT CONTROL	CHECKED J. LOWY	

G005



1 <140> 2601500.86 | 6461120.7 <104> 2602516.86 | 6462553.88 **141** 2601500.86 | 6461144.08 105 142 2602571.16 | 6462643.30 2601539.49 | 6461188.7 143 2601532.51 | 6461204.1 2602615.44 | 6462685.62 144 2601416.63 | 6461169.69 108> **145** 2602610.81 | 6462714.54 2601368.83 | 6461131.41 (109) 2602625.47 | 6462732.73 **146** 2601271.89 6461290.1 2602585.24 | 6462837.04 2601276.38 | 6461770.95 1 <148> ' 2602573.03 | 6462814.70 2601341.25 | 6461923.52 **112 149** 2602540.59 | 6462797.85 2601704.78 | 6462070.1 **150** 2602129.30 | 6462760.19 2602533.85 | 6462745.38 2602500.37 | 6462735.02 2602168.58 | 6462743.16 **152** 2602472.02 | 6462661.21 2602209.27 | 6462778.05 **153** 2602437.64 | 6462655.70 2602277.64 | 6462700.94 2602423.38 | 6462630.97 2602313.83 | 6462761.45 2602289.05 | 6462846.45 2602369.16 | 6462693.45 **156** (119) 2602330.97 | 6462628.95 2602259.67 | 6462821.26 (120) **(157)** 2602383.73 | 6462562.17 2602100.30 | 6463066.61 1 (158) 2602390.33 | 6462212.25 2601872.64 | 6462871.43 1 (159) 2602083.01 | 6462780.25 2601682.88 | 6462115.22 2602386.51 | 6462048.87 **161** 124 2602385.97 6461900.76 2601303.34 | 6461962.14 1 <125 162 2601226.47 | 6461781.37 2602357.94 | 6461900.67 163 126> 2602364.24 | 6461840.40 2601221.76 | 6461276.26 127> 164 2602324.90 | 6461739.94 2601329.30 | 6461100.52 128> 165 2602312.46 | 6461715.94 2601262.59 | 6461047.67 1 (166) (129) 2602273.19 6461679.92 2601253.28 | 6460960.11 **167 130** 2602262.01 | 6461704.63 2602022.16 | 6461187.92 168 (131) 2602346.77 | 6461900.36 2602022.35 | 6461300.34 (169) 132> 2602452.25 | 6461783.41 2602007.58 | 6461297.37 **170** 133> 2602435.65 | 6461839.08 2601992.81 6461266.34 (171) 2602435.65 | 6462000.81 2601992.81 | 6461225.01 1 172> 1 **135** 2602457.59 | 6462224.47 2602009.45 6461189.99 <u>136</u> 2602447.96 6462281.50

PROJECT DATE 5/25/22

CONTRACTOR STAGING/CLEARING AND GRUBBING **AREA LIMITS**

2602457.99 | 6462556.33

138

(101)

POINT NO NORTHING | EASTING

2601434.31 | 6460959.64

2601467.36 | 6461090.05

REV DATE BY

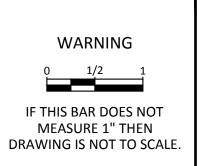
1 6/10/22 JAL ADDENDUM NO. 01

0 5/25/22 JAL ISSUED FOR CONSTRUCTION

- 1. CONTRACTOR SHALL COORDINATE LAYDOWN AND STAGING AREAS WITH
- WITH SPECIFICATIONS AND SUBMIT FOR REVIEW AND APPROVAL BY OWNER PRIOR TO INITIATING CONSTRUCTION ACTIVITIES.
- 3. CONTRACTOR STAGING AREA IS SUGGESTED ONLY, AND WILL BE AT THE DISCRETION OF THE CONTRACTOR, SUBJECT TO APPROVAL BY THE OWNER AND ENGINEER.

DESCRIPTION

- THE CONTRACTOR SHALL DEVELOP AND SUBMIT TO THE ENGINEER A PLAN FOR STORING AND DISPOSING OF HAZARDOUS MATERIALS.
- 6. THE CONTRACTOR SHALL RESTORE THE STAGING AREAS AT PROJECT COMPLETION TO PRE CONSTRUCTION CONDITIONS.







ENVIRONMENTAL

FEATURES

KLAMATH RIVER RENEWAL CORPORATION	DESCRIPTION A PLIPMS
CITY OF YREKA WATER LINE	DESIGNED J. BURNS
	DRAWN J. CHASE
	CHECKED J. LOWY

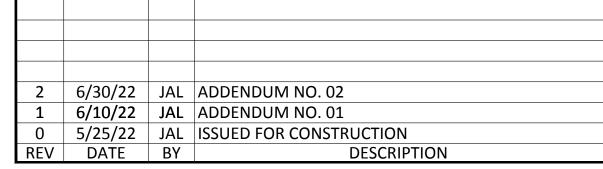
CLEARING AND

CONTRACTOR STAGING AREA

GRUBBING

G006

SPIRAL WELDED STEEL PIDE 5/6." WALL THICKNESS FABRICATED BUTT WELD OR FLG JOINTS, AWWA C208 MODIFIED PER CEMENT MORTAR LINED.	NO	F	FUNCTION		G MATERIAL GROUP NO.	FIELD TEST REQ (SEE NOTE 3 A)					PIPING MATERIA	L SCHEDULE (SEE NOTE 1)		TYPICAL PIPE DESIGNATION		R∪IID NIIIN4DED
The control of the	BREVIATI			EXPOSED PIPING	BURIED PIPING	(SEE NOTE 5 A)	NOTE 4)	NO.					(SEE NOTE 13)		(SEE NOTE 1	
Part	LUID AB	OSEDI	IIN ITIIS PKUJEUI	4" DIA AND 6" DIA AND	D 4" DIA AND 6" DIA	PRESSURE PSI MEDIUM					BAN	DED, GALVANIZED. 4" AND LARGER, ASME B16.5 CLASS 300,	SECTION 40 23 15 (PVC TAPE COAT WHEN			rion
March	ш			SMALLER LARGER	SMALLER AND LARGER			STEEL, A	A53, GRADE A S	STD, SEAMLESS		·	R EPOXY COATED PER			' BE LISTED ON
STATE 1	W	RAW WATER		8 OR 6	8 OR 6	375 WATER	(A)	6			SECI	ION 33 11 11.		SHEET FOR A GIVEN FLUID SERV ONLY THE PIPE MATERIAL GROU	ICE, CONTRACTOR JP SHOWN ON THE	SHALL PROVI
MAIN SCHOOLS MOT SCHOOLS	√T	VENT AIR		2	2	15 IN Hg AIR/VAC	(A) (D)		C200 & MODIF	FIED PER SECTI	ION 331111) SECT	·	PER AWWA C205, SEE	NOTE 2		
March Marc							VALVE SCHEI	DULE						A. PIPES SO DESIGNATED SHA B. PIPES SO DESIGNATED SHA UNBURIED PIPE AND NOT N	LL SHOW ZERO LEA LL SHOW ZERO LEA MORE THAN 0.02 G	KAGE FOR ALLON PER H
## PRINCE COLOR 1997			LOCATION AND SERVICE	BOD	Y & DISC MATERIALS		VALVE TYPE, ENDS			WORKING PRESSURE	VALVE SHAFT/STEM AND HARDWARE	ACTUATOR TYPE, (NORMAL VALVE POSITION)		C. PIPES SO DESIGNATED SHA THAN 0.15 GALLON PER HO FEET OF PIPE. D. PIPES SO DESIGNATED SHA	LL NOT SHOW A LE OUR PER INCH OF D LL NOT SHOW A LC	AKAGE OF MC IAMETER PER
NOT USED NOT US	V-0)1 R	RW ISOLATION, 45-60F	DUCTILE IRON	(FBE COATED AND LINED), C	ND IIIOITELY		•	24	360		HANDWHEEL (OPEN)		E. PIPE SO DESIGNATED SHALL MORE THAN 4 INCHES MER	L NOT SHOW A LOS CURY COLUMN.	
1.0.1 RIAM POT/INF RIAMIN, N-537 176 TTA VIEST STEEL, CARRON STEE OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 176 TTA VIEST STEEL, CARRON STEE OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 176 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF RIAMIN, N-537 177 TTA VIEST STEEL, CARRON STEE, OR DUCTLE 1.0.1 SAN POT/INF	V-0)2	NOT USED											SEE PIPING SECTION OF SPECIFIC	CATIONS.	
**************************************	V-0	DRAI	IN PIPE/RW DRAIN, 45-60F	316 STAINLESS ST	TEEL, CARBON STEEL OR DUC IRON	CTILE HIGH PERFORMANC	-	GED DRILLING OR	4	360		OPERATOR NUT. EXPOXY COATING ON BURIED ACTUATOR		NOTE 5 NOT USED.		
NOT USED NOT US	V-0	14 DRAI	IN PIPE/RW DRAIN, 45-60F	316 STAINLESS S	TEEL, CARBON STEEL OR DUC IRON	CTILE HIGH PERFORMANC		GED DRILLING OR	4	360		OPERATOR NUT. EXPOXY COATING ON BURIED ACTUATOR		INSPECTION AND TESTING SHAL APPLICABLE PLUMBING CODE. NOTE 8		
DIAIN PIP/IIIV DIAIN, 45-607 DIAIN PIP/IIIV DIAIN DIAIN PIP/IIV DIAIN DIAIN PIP/III DIA														NOTE 9 INSPECTION AND TESTING SHAL APPLICABLE NATIONAL FIRE PRO	L BE IN ACCORDAN	ICE WITH
DRAIN PRE/RW DRAIN, 45-66F DRAIN PRE/RW DRAIN AS EAST, 5TEL BOTT SA NUTS DUCTILE IRON W/THERMAXX INSULATION JACKET OR APPROVED EQUAL (VALVE SHALL MEET AWWA C512) DUCTILE IRON W/THERMAXX INSULATION JACKET OR APPROVED EQUAL (VALVE SHALL MEET AWWA C512) DUCTILE IRON W/THERMAXX INSULATION JACKET OR APPROVED EQUAL (VALVE SHALL MEET AWWA C512) DUCTILE IRON W/THERMAXX INSULATION JACKET OR APPROVED EQUAL (VALVE SHALL MEET AWWA C512) DUCTILE IRON W/THERMAXX INSULATION JACKET OR APPROVED EQUAL (VALVE SHALL MEET AWWA C512) DUCTILE IRON W/THERMAXX INSULATION JACKET OR APPROVED EQUAL (VALVE SHALL MEET AWWA C512) DUCTILE IRON W/THERMAXX INSULATION JACKET OR APPROVED EQUAL (VALVE SHALL MEET AWWA C512) DUCTILE IRON W/THERMAXX INSULATION JACKET OR APPROVED EQUAL (VALVE SHALL MEET AWWA C512) DUCTILE IRON W/THERMAXX INSULATION JACKET OR APPROVED EQUAL (VALVE SHALL MEET AWWA C512) DUCTILE IRON W/THERMAXX INSULATION JACKET OR APPROVED EQUAL (VALVE SHALL MEET AWWA C512) DUCTILE IRON W/THERMAX INSULATION JACKET OR APPROVED EQUAL (VALVE SHALL MEET AWWA C512) DUCTILE IRON W/THERMAX INSULATION JACKET OR APPROVED EQUAL (VALVE SHALL MEET AWWA C512) DUCTILE IRON W/THERMAX INSULATION JACKET OR APPROVED EQUAL (VALVE SHALL MEET AWWA C512) DRAIN JACKET SHOULD	_						*************************************							PIPING MATERIALS SHALL BE IN		H NATIONAL I
AIR & VAC COMBINATION DUCTILE IRON (VALVE SHALL MEET AWWA C512) 3" COMBINATION AIR RELEASE VALVE, 3" NPT INLET/OUTLET 3 360 AVO, 5/5 TRIM, BUNA-N SEAT, STEEL BOLTS & NUTS VO2 AIR & VAC COMBINATION DUCTILE IRON (VALVE SHALL MEET AWWA C512) 3" COMBINATION AIR RELEASE VALVE, 3" NPT INLET/OUTLET 3 360 AVO, 5/5 TRIM, BUNA-N SEAT, STEEL BOLTS & NUTS VO3 AIR & VAC COMBINATION DUCTILE IRON W/ THERMAXX INSULATION JACKET OR APPROVED EQUAL (VALVE SHALL MEET AWWA C512) 3" COMBINATION AIR RELEASE VALVE, 3" NPT INLET/OUTLET 3 360 AVO, 5/5 TRIM, BUNA-N SEAT, STEEL BOLTS & NUTS VO4 NOT USED UCTILE IRON W/ THERMAXX INSULATION JACKET OR APPROVED EQUAL (VALVE SHALL MEET AWWA C512) 3" COMBINATION AIR RELEASE VALVE, 3" NPT INLET/OUTLET 3 360 AVO, 5/5 TRIM, BUNA-N SEAT, STEEL BOLTS & NUTS NOT USED UCTILE IRON W/ THERMAXX INSULATION JACKET OR APPROVED EQUAL (VALVE SHALL MEET AWWA C512) 3" COMBINATION AIR RELEASE VALVE, 3" NPT INLET/OUTLET 3 360 AVO, 5/5 TRIM, BUNA-N SEAT, STEEL BOLTS & NUTS NOT USED UCTILE IRON W/ THERMAXX INSULATION JACKET OR APPROVED EQUAL (VALVE SHALL MEET AWWA C512) 3" COMBINATION AIR RELEASE VALVE, 3" NPT INLET/OUTLET 3 360 AVO, 5/5 TRIM, BUNA-N SEAT, STEEL BOLTS & NUTS NOT USED UCTILE IRON W/ THERMAXX INSULATION JACKET OR APPROVED EQUAL (VALVE SHALL MEET AWWA C512) 3" COMBINATION AIR RELEASE VALVE, 3" NPT INLET/OUTLET 3 360 AVO, 5/5 TRIM, BUNA-N SEAT, STEEL BOLTS & NUTS NOT USED NOT USED NOT USED NOTE 15 NOT USED				216 STAINHESS S			E BUTTERFLY VALVE, LUGG		4		SEE SPEC SECTION 43 25 02	WORM GEAR BURIED SERVICE OPERATOR WITH 2" OPERATOR NUT. EXPOXY COATING ON BURIED ACTUATOR (8 +/-4 DFT MILS TNEMIC 141 EXPOXY). POLYWRAP VALVE		NOTE 11 FOR VALVES 4" AND LARGER SEI VALVES SEE SPECIFICATIONS.		FOR SPECIAL
AIR & VAC COMBINATION DUCTILE IRON (VALVE SHALL MEET AWWA C512) 3" COMBINATION AIR RELEASE VALVE, 3" NPT INLET/OUTLET 3 360 AVO, 5/5 TRIM, BUAN-A SEAT, STEEL BOLTS & NUTS V-03 AIR & VAC COMBINATION DUCTILE IRON (VALVE SHALL MEET AWWA C512) 3" COMBINATION AIR RELEASE VALVE, 3" NPT INLET/OUTLET 3 360 AVO, 5/5 TRIM, BUAN-A SEAT, STEEL BOLTS & NUTS V-04 NOT USED DUCTILE IRON (VALVE SHALL MEET AWWA C512) 3" COMBINATION AIR RELEASE VALVE, 3" NPT INLET/OUTLET 3 360 AVO, 5/5 TRIM, BUAN-A SEAT, STEEL BOLTS & NUTS SINGLE BODY, LINED AND COATED WITH 8 +/- 4 MILS DFT OF TNEMEC 141 EPOXY SINGLE BODY, LINED AND COATED WITH 8 +/- 4 MILS DFT OF TNEMEC 141 EPOXY NOT USED NOT USED NOTE 14 NOT USED NOTE 15 NOT USED NOTE 16 NOT USED NOTE 17 FOR HOPE PIPING THE SIZE OF PIPE SHOWN ON DRAWING CALL PROVIDED AND COATED WITH 8 +/- 4 MILS DFT OF TNEMEC 141 EPOXY NOTE 17 FOR HOPE PIPING THE SIZE OF PIPE SHOWN ON DRAWING CALL PROVIDED AND COATED WITH 8 +/- 4 MILS DFT OF TNEMEC 141 EPOXY NOTE 17 FOR HOPE PIPING THE SIZE OF PIPE SHOWN ON DRAWING CALL PROVIDED AND COATED WITH 8 +/- 4 MILS DFT OF TNEMEC 141 EPOXY NOTE 17 FOR HOPE PIPING THE SIZE OF PIPE SHOWN ON DRAWING CALL PROVIDED AND COATED WITH 8 +/- 4 MILS DFT OF TNEMEC 141 EPOXY NOTE 17 FOR HOPE PIPING THE SIZE OF PIPE SHOWN ON DRAWING CALL PROVIDED AND COATED WITH 8 +/- 4 MILS DFT OF TNEMEC 141 EPOXY NOTE 15 NOTE 15 NOTE 15 NOTE 16 NOTE 16 NOTE 16 NOTE 17 FOR HOPE PIPING THE SIZE OF PIPE SHOWN ON DRAWING CALL PROVIDED AND COATED WITH 8 +/- 4 MILS DFT OF TNEMEC 141 EPOXY NOTE 15 NOTE 15 NOTE 16 NOTE 17 FOR HOPE PIPING THE SIZE OF PIPE SHOWN ON DRAWING CALL PROVIDED AND COATED WITH 8 +/- 4 MILS DFT OF TNEMEC 141 EPOXY NOTE 15 NOTE 1	AV-(01 AI	AIR & VAC COMBINATION	DUCTILE IRON (V	/ALVE SHALL MEET AWWA C	512) 3" COMBINATION A	AIR RELEASE VALVE, 3" NPT	INLET/OUTLET	3	360	AVO, S/S TRIM, BUNA-N SEAT, STEEL			CHANGE IN PIPING MATERIAL G THUS: →	ROUP NUMBER IS	NDICATED
AIR & VAC COMBINATION DUCTILE IRON W/ THERMAXX INSULATION JACKET OR APPROVED EQUAL (VALVE SHALL MEET AWWA C512) 3" COMBINATION AIR RELEASE VALVE, 3" NPT INLET/OUTLET 3 360 AVO, 5/5 TRIM, BUNA-N SEAT, STEEL BOLTS & NUTS NOT USED DUCTILE IRON W/ THERMAXX INSULATION JACKET OR APPROVED EQUAL (VALVE SHALL MEET AWWA C512) 3" COMBINATION AIR RELEASE VALVE, 3" NPT INLET/OUTLET 3 360 AVO, 5/5 TRIM, BUNA-N SEAT, STEEL BOLTS & NUTS NOT USED NOTE 15 NOT USED NOTE 16 NOT USED NOTE 17 FOR HDDP EPIPING THE SIZE OF PIPE SHOWN ON DRAWING CALL BE THE MINIMUM INSIDE DIAMETER. PIPE WALL THICKN	AV-(02 AI	AIR & VAC COMBINATION	DUCTILE IRON (V	/ALVE SHALL MEET AWWA C	3" COMBINATION A	AIR RELEASE VALVE, 3" NPT	INLET/OUTLET	3	360	AVO, S/S TRIM, BUNA-N SEAT, STEEL			FOR FULL PIPE LINING AND COA	TING REQUIREMEN	TS, SEE
NOTE 16 NOT USED NOTE 17 FOR HDPE PIPING THE SIZE OF PIPE SHOWN ON DRAWING CALL SHALL BE THE MINIMUM INSIDE DIAMETER. PIPE WALL THICKN	4V-(03 AI	AIR & VAC COMBINATION	OR	APPROVED EQUAL		AIR RELEASE VALVE, 3" NPT	TINLET/OUTLET	3	360	3" NPT INLET & OUTLET,#37 0.104 AVO, S/S TRIM, BUNA-N SEAT, STEEL			EXPOSED OUTDOOR PIPING SHA SPECIFICATIONS. COLORS TO BE		
NOTE 17 FOR HDPE PIPING THE SIZE OF PIPE SHOWN ON DRAWING CALL SHALL BE THE MINIMUM INSIDE DIAMETER. PIPE WALL THICKN	4V- (04	NOT USED											NOTE 16		
, the state of the														NOTE 17 FOR HDPE PIPING THE SIZE OF P SHALL BE THE MINIMUM INSIDE	DIAMETER. PIPE V	
					1	T	Т					VI ANATTI DIVED DEVE	WAL CODDODATION	1	Т	DR AMAIN
KLAMATH RIVER RENEWAL CORPORATION DRAWIN							WARNING					CITY OF YREKA		DESIGNED J.	BURNS	⇒









MATH RIVER RENEWAL CORPORATION	L DUDNIC	
CITY OF YREKA WATER LINE	DESIGNED J. BURNS	
	DRAWN R. WOOD	(
PIPING AND VALVE SCHEDULE	CHECKED J. LOWY	
	PROJECT DATE5/25/22	

G007

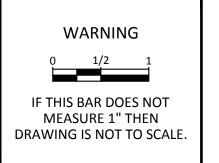
YREKA WATERLINE MODIFICATION PROJECT YREKA PIPELINE

						PIPE DIAM	METER & WALL TH	IICKNESS DATA						PIPE JOI	NT DATA			PIPE COATING AND LIN	ING DATA		PIPE STICK DATA
SEGMENT	OPTION:	PIPE MATERIAL GROUP NO.	FROM STATION #:	TO STATION #:	~ SEGMENT LENGTH	LOCATION	STEEL SHELL OUTSIDE DIAM	STEEL SHELL INSIDE DIAM	MIN. WALL THICKNESS	MIN REQ'D STEEL YIELD STRESS	HYDRO STATIC PRESSURE	MIN. HYDRO-STATIC TEST PRES.	JOINT TYPE	INSIDE JOINT WELD REQ'D?	OUTSIDE JOINT WELD REQ'D?	RESTRAINED JOINT?	PIPE LINING SYSTEM	PIPE COATING SYSTEM	HANDHOLE REQ'D?	SWABBING REQ'D	MIN. REQUIRED STICK LENGTH
#:		(NOTE 1)	(NOTE 1)	(NOTE 1)	(FT)		(INCHES)	(INCHES)	(INCH, NOTE 2)	(KSI)	(PSIG)	(PSIG, NOTE 3)					^				(FT)
																					'
	А	6 (ASTM A53, LONG. WELD)	20.20	24.45	2,145	SOUTH TIE IN	24	23.3	0.3750	36	200	275	BUTT WELD - SINGLE OUTSIDE BEVEL	NO	VEC	VEC	LIQUID EPOXY PER AWWA C210	CONCRETE MORTAR PER AWWA C205 OR FUSION BONDED EPOXY AWWA 213	YES	NO	40
1	В	8 (AWWA C200 SPIRAL WELD)	00+00	21+45	2,145	LOCATION TO SOUTH EDGE OF BRIDGE	25	24.4	0.3125	42	300	375	(DETAIL C703)	NO 2	YES	YES	CONCRETE MORTAR PER AWWA C205	CONCRETE MORTAR PER AWWA C205	YES	YES	40
				•					•		•				`		^				,
2		2	21+45	24+81	336	BRIDGE CROSSING: SOUTH EDGE OF					300	375	BUTT WELD - SINGLE OUTSIDE BEVEL	NO	NO	VEC					
2	В	8 (AWWA C200, SPIRAL WELD)	21+45	24+81	330	BRIDGE TO NORTH EDGE OF BRIDGE	25	23.5	0.750	42	300	3/3	(DETAIL C703)	NO	NO	YES	LIQUID EPOXY PER AWWA C210	LIQUID EPOXY PER AWWA C210	NO	NO	40
			<u> </u>																		
	А	6 (ASTM A53, LONG. WELD)	24.04	22.67	705	NORTH EDGE OF	24	23.3	0.3750	36	200	275	BUTT WELD - SINGLE	NO	VEC	VEC	LIQUID EPOXY PER AWWA C210	CONCRETE MORTAR PER AWWA C205 OR FUSION BONDED EPOXY AWWA 213	YES	NO	40
3	В	8 (AWWA C200, SPIRAL WELD)	24+81	32+67	786	BRIDGE TO NORTH TIE IN LOCATION	25	24.4	0.3125	42	300	375	OUTSIDE BEVEL (DETAIL C703)	NO	YES	YES	CONCRETE MORTAR PER AWWA C205	CONCRETE MORTAR PER AWWA C205	YES	YES	40
				TOTALS:	3,267				•		·			•	·						•

NOTES:

- 1. CONTRACTOR'S PIPE SUPPLIER SHALL VERIFY ALL EXACT STATION VALUES W/ THAT OF CONTRACT DRAWING PLAN & PROFILES AND THE APPROVED SHOP DRAWINGS, & PROVIDE EXACT LENGTHS AS REQ'D.
- 2. CONTRACTOR'S PIPE SUPPLIER SHALL VERYIFY REQ'D PIPE WALL THICKNESSES TO MEET ALL REQUIREMENTS OF SPEC SECTION 40 23 15 ASTM A53 & 33 11 11 AWWA C200. WALL THICKNESSES SHALL NOT BE LESS THAN THOSE SHOWN IN TABLE.
- 3. MIN. HYDROSTATIC TEST PRESSURES INCLUDES A 75 PSIG TESTING/SURGE ALLOWANCE ABOVE THE MAX. STATIC PRESSURE OF SECTION BEING TESTED. HYDROSTATIC TEST PRESSURE SHALL BE MEASURED AT THE LOWEST SECTION OF THE PIPELINE REACH BEING TESTED. (SEE SPEC SECTION 01 74 30-PRESSURE PIPELINE TESTING).

2	6/20/22	101	ADDENDUM NO. 02	
	6/30/22		ADDENDUM NO. 02	
1	6/10/22	JAL	ADDENDUM NO. 01	
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION	
REV	DATE	BY	DESCRIPTION	-







KLAMATH RIVER RENEWAL CORPORATION		DRAWING
CITY OF YREKA WATER LINE	DESIGNED J. BURNS	
	DRAWN R. WOOD	G008
PIPE OPTION SUMMARY	CHECKED J. LOWY	0000
	PROJECT DATE5/25/22	

GENERAL PROJECT NOTES:

- 1. EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN UNSCREENED AND HEAVY-LINED.
- 2. MAINTAIN, RELOCATE, OR REPLACE EXISTING SURVEY MONUMENTS, CONTROL POINTS, AND STAKES WHICH ARE DISTURBED OR DESTROYED. PERFORM THE WORK TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENT(S) IN A TIMELY MANNER, AND AT THE CONTRACTOR'S EXPENSE.
- VERTICAL DATUM BASED UPON NAVD 88 DATUM, GEOID 12B.
- 4. HORIZONTAL DATUM BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 1 NORTH AMERICAN DATUM OF 1983 (NAD83) IN FEET.
- 5. STAGING AREA SHALL BE FOR CONTRACTOR'S EMPLOYEE PARKING, CONTRACTOR'S TRAILERS AND ON-SITE STORAGE OF MATERIALS, SEE SHEET G006. COORDINATE SPECIFIC AREA LIMITS WITH OWNER.
- 6. ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.
- SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
- 8. A GEOTECHNICAL EVALUATION WAS PREFORMED FOR THIS PROJECT. A 2019 GEOTECHNICAL ENGINEERING EVALUATION REPORT WAS PREPARED BY AECOM TECHNICAL SERVICES AND CDM SMITH. A GEOTECHNICAL MEMO WAS PREPARED BY CDM SMITH BASED ON THE REVIEW OF THE LARGER REPORT FOR THIS PROJECT AND IS ATTACHED TO THE PROJECT SPECIFICATIONS.
- 9. CONTRACTOR SHALL CONTACT KRRC A MINIMUM OF 48 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES TO REQUEST VERIFICATION OF UNDERGROUND UTILITY LOCATIONS.
- 10. PROVIDE MINIMUM 2.5-FT COVER OVER WATER MAIN PIPES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- 11. CONTRACTOR SHALL KEEP CONSTRUCTION ACTIVITIES WITHIN THE SITE BOUNDARIES FOR THIS PROJECT AS SHOWN. THIS INCLUDES, BUT IS NOT LIMITED TO, VEHICLES AND EQUIPMENT. LIMITS OF TRENCH EXCAVATION, STOCKPILED EXCAVATED MATERIALS, BACKFILL MATERIAL, AND PIPE MATERIAL.

GENERAL CONSTRUCTION NOTES:

- CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION CONFERENCE (OR AN ON-SITE MEETING) WITH THE PROJECT REPRESENTATIVE PRIOR TO THE START OF WORK.
- 2. CONTRACTOR SHALL NOTIFY THE PROJECT REPRESENTATIVE WHEN MATERIALS ARE ON SITE OR INSPECTION OF THE WORK IS REQUIRED. NO WORK MAY BEGIN ON ANY PROJECT WITHOUT TWENTY FOUR (24) HOUR PRIOR NOTICE.
- ALL MATERIAL FURNISHED ON, OR FOR THE PROJECT MUST MEET THE MINIMUM REQUIREMENTS OF THE APPROVING AGENCIES. AT THE REQUEST OF THE APPROVING AGENCY OR THE DESIGN ENGINEER, CONTRACTOR SHALL FURNISH PROOF THAT ALL MATERIALS INSTALLED ON THIS PROJECT MEET THE SPECIFICATION REQUIREMENTS SET FORTH IN THE PROJECT SPECIFICATIONS.
- 4. WORK SUBJECT TO APPROVAL BY ENGINEER MUST BE APPROVED PRIOR TO (A) BACKFILL TRENCHES FOR PIPE; (B) PLACING OF AGGREGATE BASE; (C) PLACING OF CONCRETE; (D) PLACING OF ASPHALT PAVING; (E) OR AS OTHERWISE SPECIFIED.
- 5. ANY DEVIATION FROM THE APPROVED PLANS AND SPECIFICATIONS MUST HAVE DESIGN ENGINEER AND OWNER APPROVAL IN WRITING PRIOR TO CONSTRUCTION.
- 6. ALL DISTURBED SURFACES SHALL BE RETURNED TO ORIGINAL OR BETTER CONDITIONS.

GENERAL YARD PIPING AND UTILITIES NOTES:

- EXISTING UNDERGROUND UTILITIES OBTAINED FROM AS-BUILTS AND FROM TOPOGRAPHIC FIELD SURVEY PROVIDED BY KRRP. CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION PRIOR TO EXCAVATION. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION. IF EXISTING UTILITIES (GAS, ELECTRIC, POTABLE WATER, ETC.) ARE IN CONFLICT WITH THE PIPELINE REALIGNMENT OR TRENCH ALIGNMENT, CONTRACTOR SHALL CONTACT ENGINEER.
- 2. EXISTING PIPING AND EQUIPMENT ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW PIPING AND EQUIPMENT ARE SHOWN UNSCREENED AND HEAVY-LINED.
- ALL PIPES SHALL HAVE CONSTANT UNIFORM SLOPE.

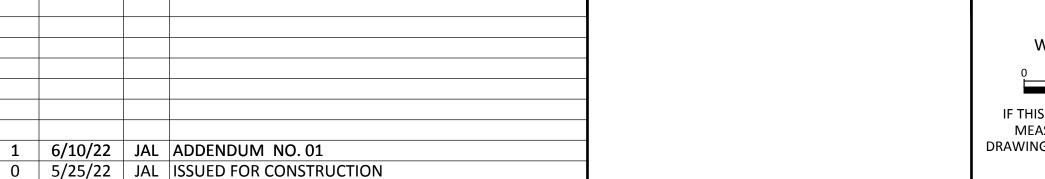
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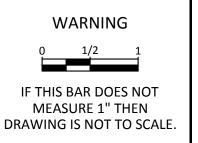
- 4. THE HORIZONTAL SEPARATION OF POTABLE WATER MAINS AND NON-POTABLE WATER MAINS (SANITARY SEWER, STORM DRAIN, AND IRRIGATION) SHALL BE A MINIMUM OF TEN (10) FEET OUTSIDE OF PIPE TO OUTSIDE OF PIPE. WHERE IT IS NECESSARY FOR A POTABLE WATER MAIN AND NON-POTABLE WATER MAIN TO CROSS WITH LESS THAN EIGHTEEN (18) INCHES OF VERTICAL SEPARATION. THE CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 64572, TITLE 22, CALIFORNIA ADMINISTRATION CODE.
- 5. CONTRACTOR SHALL REPAIR ALL EXISTING SURFACES, UTILITIES, BUILDINGS AND FOUNDATIONS IMPACTED BY CONSTRUCTION.

DESCRIPTION

6. ALL VALVES SET FLUSH WITH GRADE SHALL HAVE BOXES AND COLLARS.

DESIGN CRITERIA										
CRITERIA	UNITS	VALUE	COMMENTS							
MAXIMUM DESIGN FLOW	CFS	15	MAXIMUM DESIGN FLOW WITH THREE PUMPS RUNNING							
AVERAGE SUMMER PEAK FLOW RATE	CFS	11	PEAK FLOW RATE DURING SUMMER MONTHS WITH TWO PUMPS RUNNING							
AVERAGE WINTER PEAK FLOW RATE	CFS	6	PEAK FLOW RATE DURING WINTER MONTHS WITH ONE PUMP RUNNING							
DESIGN HYDROSTATIC PRESSURE	PSIG	294	PROVIDED BY ORIGINAL AS-BUILT DRAWINGS							
DESIGN MAXIMUM OPERATING PRESSURE	PSIG	310	CALCULATED FOR 15 CFS FLOW RATE							
DESIGN MAXIMUM SURGE PRESSURE	PSIG (360	PROVIDED BY ORIGINAL AS-BUILT DRAWINGS							
PIPE NOMINAL OUTER DIAMETER	IN	24-25	STEEL PIPE. FOR PIPING OPTIONS SEE G008.							







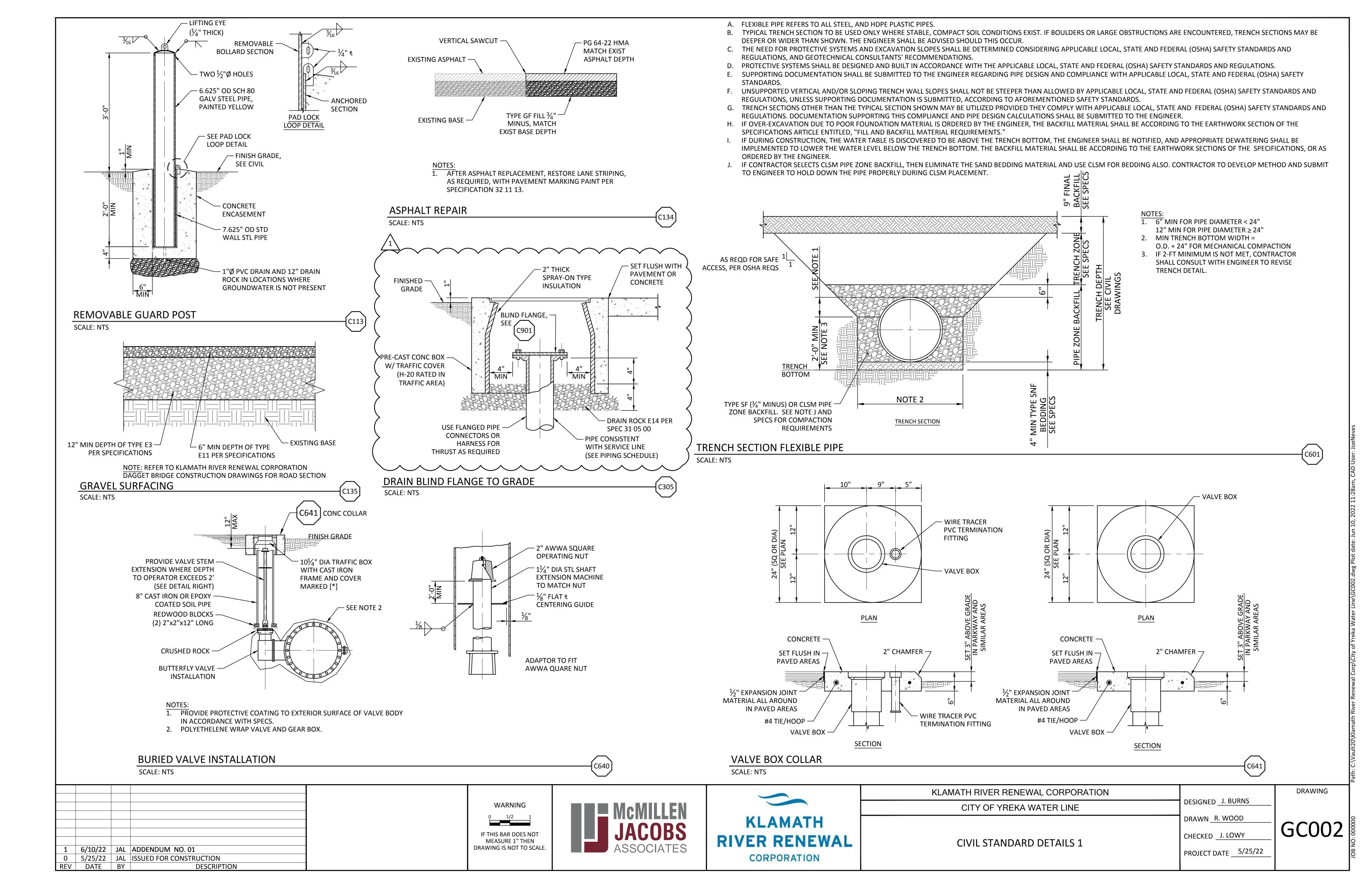


KLAMATH	
VER RENEWAL	
CORPORATION	

KLAMATH RIVER RENEWAL CORPORATION	I BUBNIC
CITY OF YREKA WATER LINE	DESIGNED J. BURNS
	DRAWN_R. WOOD
	CHECKED J. LOWY
GENERAL CIVIL NOTES	PROJECT DATE 5/25/22

DRAWING

GC001



18" DIA

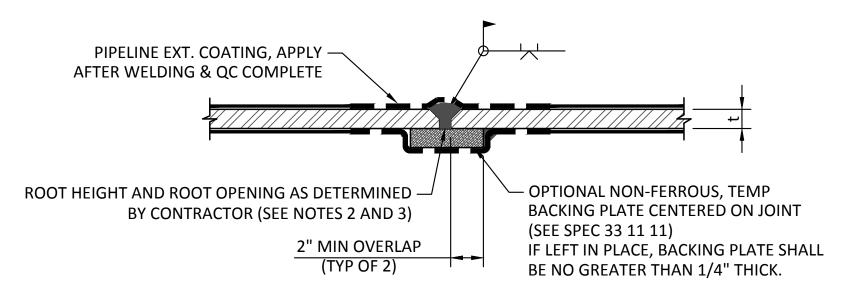
PIPELINE MARKER

SCALE: NTS

BURIED APPURTENANCE	STRIPE COLOR (DEFLECTIVE TAPE)
ISOLATION VALVE	BLUE & WHITE STRIPED
COMBINATION AIR RELEASE/ VACUUM VALVE	BLUE
BLOW-OFF	YELLOW
ACCESS MANWAY	GREEN
FIBER OPTICS CABEL	ORANGE
CORROSION TEST STATION	FLUORESCENT GREEN

1. MARKER POSTS SHALL BE OFFSET 5'-0" FROM ACTUAL APPURTANCES LOCATION UNLESS INDICATED OTHERWISE.

2. EXACT LOCATIONS OF MARKER POSTS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.



SINGLE BEVEL - BUTT WELD JOINT (FOR t ≤ 0.625") EXT WELD (W/OPTIONAL BACKING PLATE)

- 1. FIELD APPLIED JOINT LINING PROTECTION REQUIRED FOR SHOP-LINED PIPE.
- 2. CONTRACTOR SHALL DEVELOP DETAILS OF CJP WELDS IN ACCORDANCE W/ SPEC 33 11 11. PRE-QUALIFIED CJP WELDS IN ACCORDANCE W/ SECTION VIII OF THE ASME BOILER AND PRESSURE VESSEL CODE OR TABLE 8-2 OF THE AISC STEEL CONSTRUCTION MANUAL MAY BE UTILIZED.

- CEMENT MORTAR

CYLINDER BEYOND

LINING STEEL

3. INTERIOR OR EXTERIOR BACK-GOUGING OF BUTT WELD NOT REQUIRED UNLESS SPECIFICALLY CALLED FOR IN SECTION 33 11 11.

STEEL PIPE - BUTT WELD JOINT (SINGLE OUTSIDE BEVEL)

SCALE: NTS

C703

FIELD PLACED CEMENT **BUTT STRAP WITH** GROUT AND DIAPER SEE NOTE 4 (SEE NOTE 3) MIN. 4" OVERLAP 6" MIN DIELECTRIC **COATING HOLDBACK** STEEL PLATE -FROM WELD, TYP **BUTT STRAP** 2" MIN 3" MIN ROCK SHIELD JOINT DIELECTRIC -8" MAX HOLDBACK FROM PIPE COATING DIELECTRIC COATING, TYP **CEMENT MORTAR -**COATING, TYP - PIPE DIELECTRIC COATING, TYP t = PIPE CYLINDER THICKNESS WELD, TYP - LINING (SHOP APPLIED), TYP - LINING (APPLIED IN FIELD - 24" RW (6) OR 25" (8) AFTER WELD QUALITY CONTROL AND TESTING), TYP 1/2" THICK x 6" LONG -WRAPPER PLATE ─ PIPE END, TYP (SEE NOTE 5) EXISTING 24" PIPE —

SCALE: NTS

- CONTRACTOR SHALL CONDUCT AN AIR/SOAP SOLUTION LEAK TEST AT 40 PSI AIR PRESSURE IN ADDITION TO DYE PENETRANT OR MAGNETIC PARTICLE TESTING PERFORMED BY THE CONSTRUCTION MANAGER. IF LEAKS ARE DETECTED, REPAIR AND RETEST THE WELDS UNTIL THERE ARE NO DEFECTS. PLUG HOLES WITH A THREADED OR WELDED PLUG AT COMPLETION OF TEST AND COAT AS SHOWN. TAP HOLES MAY BE ON INSIDE OR OUTSIDE OF JOINT.
- 2. FOR FIELD WELDING OF INDIVIDUAL BUTT STRAP PIECES TO EACH OTHER, SEE DETAIL C705.
- 3. FIELD PLACED CEMENT GROUT AND DIAPER IS NOT REQUIRED WHERE THE PIPE IS FULLY ENCASED IN CONTROLLED LOW STRENGTH MATERIAL (CLSM) OR CONCRETE.
- 4. UNLESS OTHERWISE NOTED, BUTT STRAP WIDTH SHALL CONFORM TO THE LIMITATIONS
- SHOWN FOR PIPE END SEPARATION AND STEEL OVERLAP REQUIREMENTS.
- 5. WRAPPER PLATE SHALL BE OMITTED IF PIPE MATERIAL 6 (24" DIAMETER) IS USED.

EXISTING TO NEW BUTT STRAP JOINT (WSP - FLEXIBLE/DIELECTRIC COATING SYSTEM)

WARNING

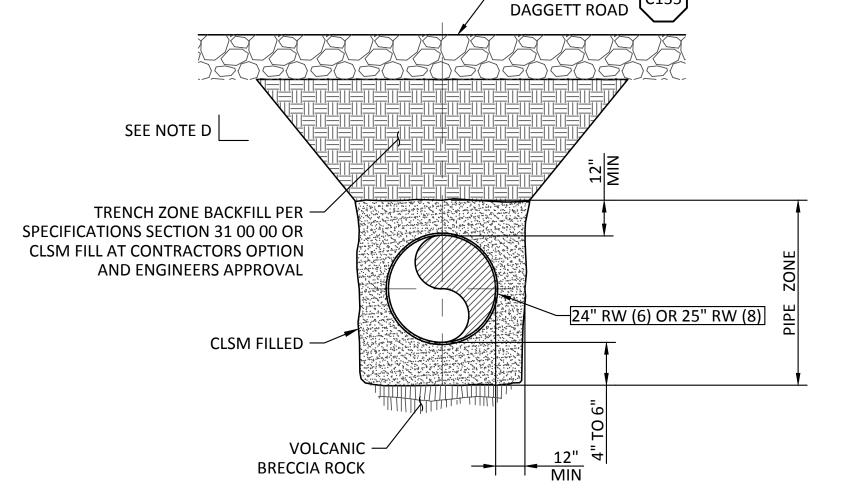
IF THIS BAR DOES NOT

MEASURE 1" THEN

DRAWING IS NOT TO SCALE





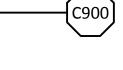


REPAIR EXISTING

- A. THE NEED FOR PROTECTIVE SYSTEMS, AND EXCAVATION SLOPES SHALL BE DETERMINED CONSIDERING APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS, AND GEOTECHNICAL CONSULTANTS' RECOMMENDATIONS.
- B. PROTECTIVE SYSTEMS SHALL BE DESIGNED AND BUILT IN ACCORDANCE WITH THE APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS.
- C. SUPPORTING DOCUMENTATION SHALL BE SUBMITTED TO THE ENGINEER REGARDING PIPE DESIGN AND COMPLIANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS.
- D. UNSUPPORTED VERTICAL AND/OR SLOPING TRENCH WALL SLOPES SHALL NOT BE STEEPER THAN ALLOWED BY APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS, UNLESS SUPPORTING DOCUMENTATION IS SUBMITTED, ACCORDING TO AFOREMENTIONED SAFETY STANDARDS.
- E. TRENCH SECTIONS OTHER THAN THE TYPICAL SECTIONS SHOWN MAY BE UTILIZED PROVIDED THEY COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS. DOCUMENTATION SUPPORTING THIS COMPLIANCE AND PIPE DESIGN CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER.
- F. IF DURING CONSTRUCTION, THE WATER TABLE IS DISCOVERED TO BE ABOVE THE TRENCH BOTTOM, THE ENGINEER SHALL BE NOTIFIED, AND APPROPRIATE DEWATERING SHALL BE IMPLEMENTED TO LOWER THE WATER LEVEL BELOW THE TRENCH BOTTOM. THE BACKFILL MATERIAL SHALL BE ACCORDING TO THE EARTHWORK SECTIONS OF THE SPECIFICATIONS, OR AS ORDERED BY THE ENGINEER.

CLSM FILLED PIPE TRENCH

SCALE: NTS



1	6/10/22	JAL	REVISED - ISSUED FOR CONSTRUCTION
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION



BUTT STRAP -

BUTT STRAP SPLICE

SCALE: NTS

CIVIL STANDARD DETAILS 2

KLAMATH RIVER RENEWAL CORPORATION

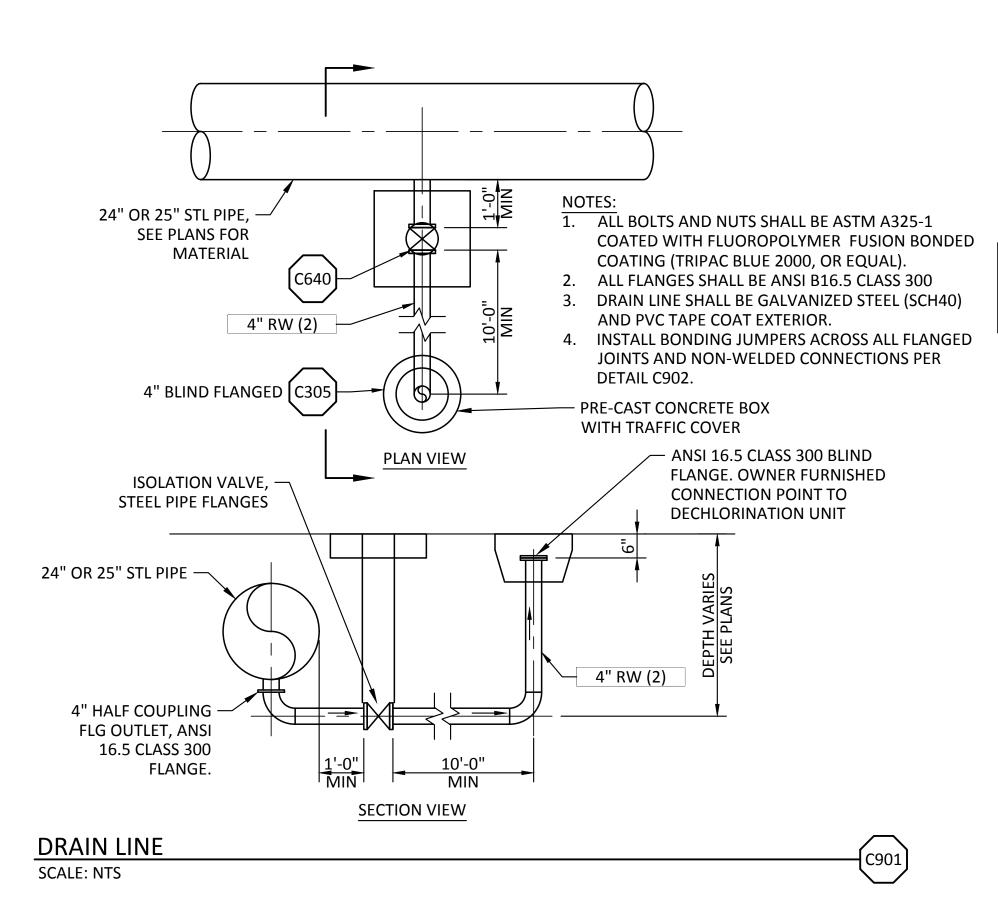
CITY OF YREKA WATER LINE

DRAWN J. CHASE CHECKED J. LOWY

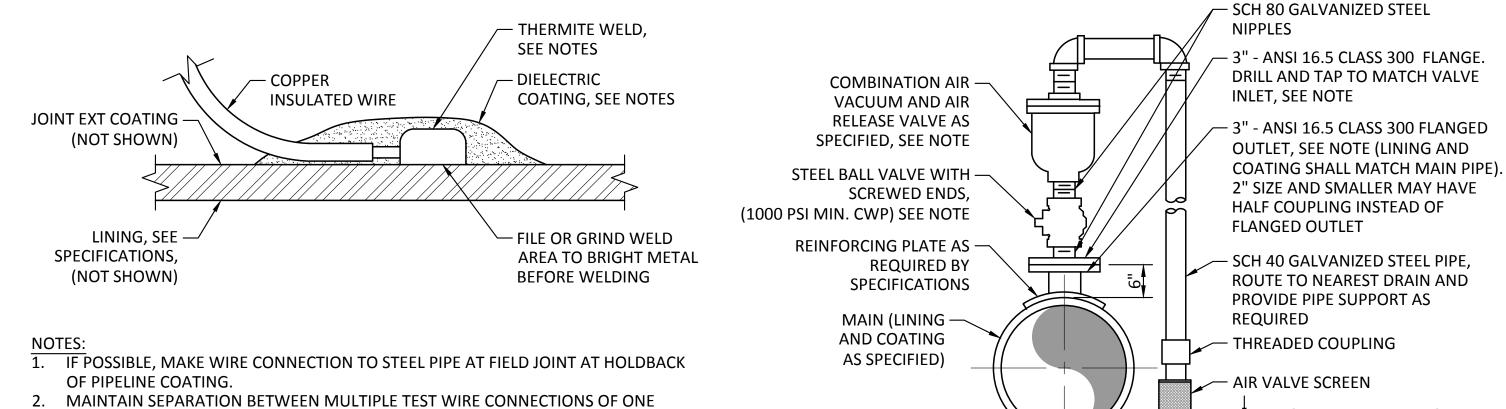
DESIGNED J. BURNS

PROJECT DATE 5/25/22

GC003



CAUTION: OPERATOR SHALL ENSURE ALL PUMPS ARE OFF AND THE 24-INCH BUTTERFLY VALVE (V-01) DOWNSTREAM ON SHEET C100 IS CLOSED BEFORE OPERATING THE DRAINS.

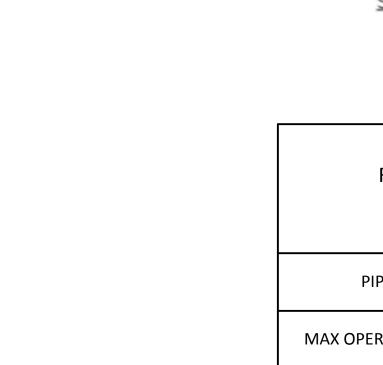


C902

- PIPE DIA OR 12", WHICHEVER IS LESS.
- 3. COPPER SLEEVE REQUIRED FOR #2 AWG JOINT BONDS OR FOR #12 AWG OR SMALLER TEST WIRES.
- 4. WELDER AND CARTRIDGE SIZE VARIES ACCORDING TO PIPE SIZE AND PIPE MATERIAL, CONSULT WELDER MANUFACTURER FOR RECOMMENDED WELDER AND
- 5. COAT COMPLETED CONNECTIONS WITH DIELECTRIC COATING AS SPECIFIED. 6. PIPELINE JOINT COATING NOT SHOWN FOR CLARITY.

- 1. FOR PIPING SYSTEM WITH SERVICE PRESSURE CLASS GREATER THAN 150 PSI. ALL COMPONENTS FURNISHED SHALL BE SUITABLE FOR THE HIGHER PRESSURE.
- 2. PROVIDE FREEZE INSULATION (THERMAXX INSULATION JACKET OR APPROVED EQUAL) FOR AIR VALVE ON BRIDGE (AV-03 SHEET C105)

AIR-VACUUM AND AIR-RELEASE VALVE ASSEMBLY - 3" AND SMALLER SCALE: NTS



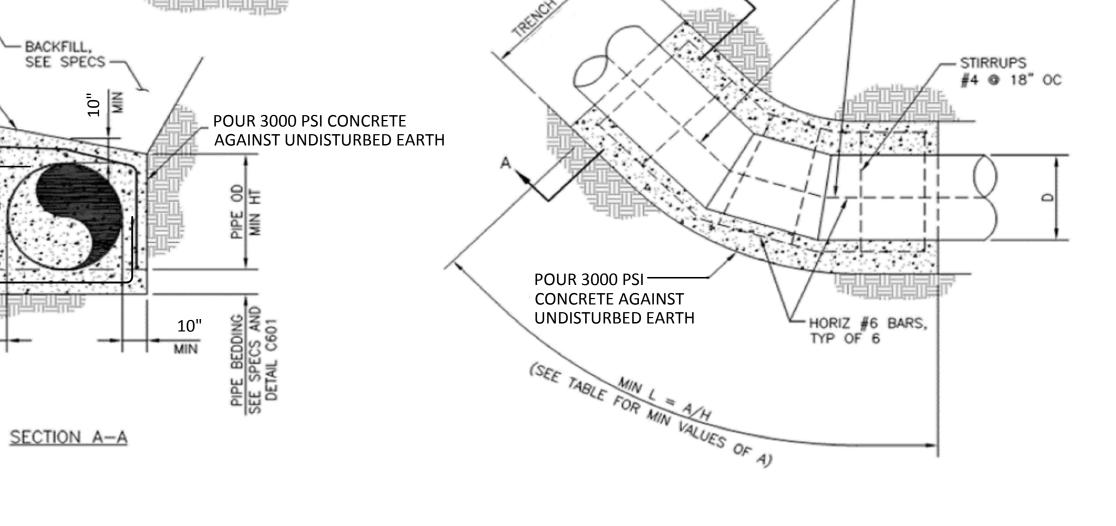
CONCRETE -THRUST BLOCK

STIRRUPS -

NOTE: H SHALL BE NO LESS THAN 4-FT

#4 @ 18" OC

- BACKFILL, SEE SPECS -



REQUIRED BEARING AREA TABLE (A = L*H) TABLE FOR BURIED THRUST BLOCKS, DETAIL C906 (SQ FT) (TABLE ASSUMES PROJECT SPECIFIC UNDISTURBED TRENCH SOIL-BEARING CAPACITY OF 3,500 PSF)

PIPE BEND (DEG):	22.5 45.0		65.0	
MAX OPERATING PRESSURE (PSI)	<310	<310	<310	
NOMINAL PIPE DIAMETER (INCHES)	ASSUMED BEARING CAPACITY = 3,500*			
24	16	31	43	
25	17	33	47	

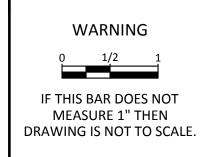
*NOTE THAT THIS BEARING CAPACITY DOES NOT APPLY TO ANY OTHER PORTIONS OF PROJECT & SHALL BE USED ONLY FOR THE WATERLINE THRUST BLOCK CALCS. CONTRACTOR SHALL UTILIZE 310 PSIG PRESSURE COLUMN WHEN DETERMINING REQUIRED BEARING AREA FROM TABLE ABOVE.

> THRUST BLOCK DETAIL (C906) SCALE: NTS

1 6/10/22 JAL REVISED - ISSUED FOR CONSTRUCTION 0 | 5/25/22 | JAL | ISSUED FOR CONSTRUCTION REV DATE BY DESCRIPTION

PIPE WIRE CONNECTION DETAIL

SCALE: NTS





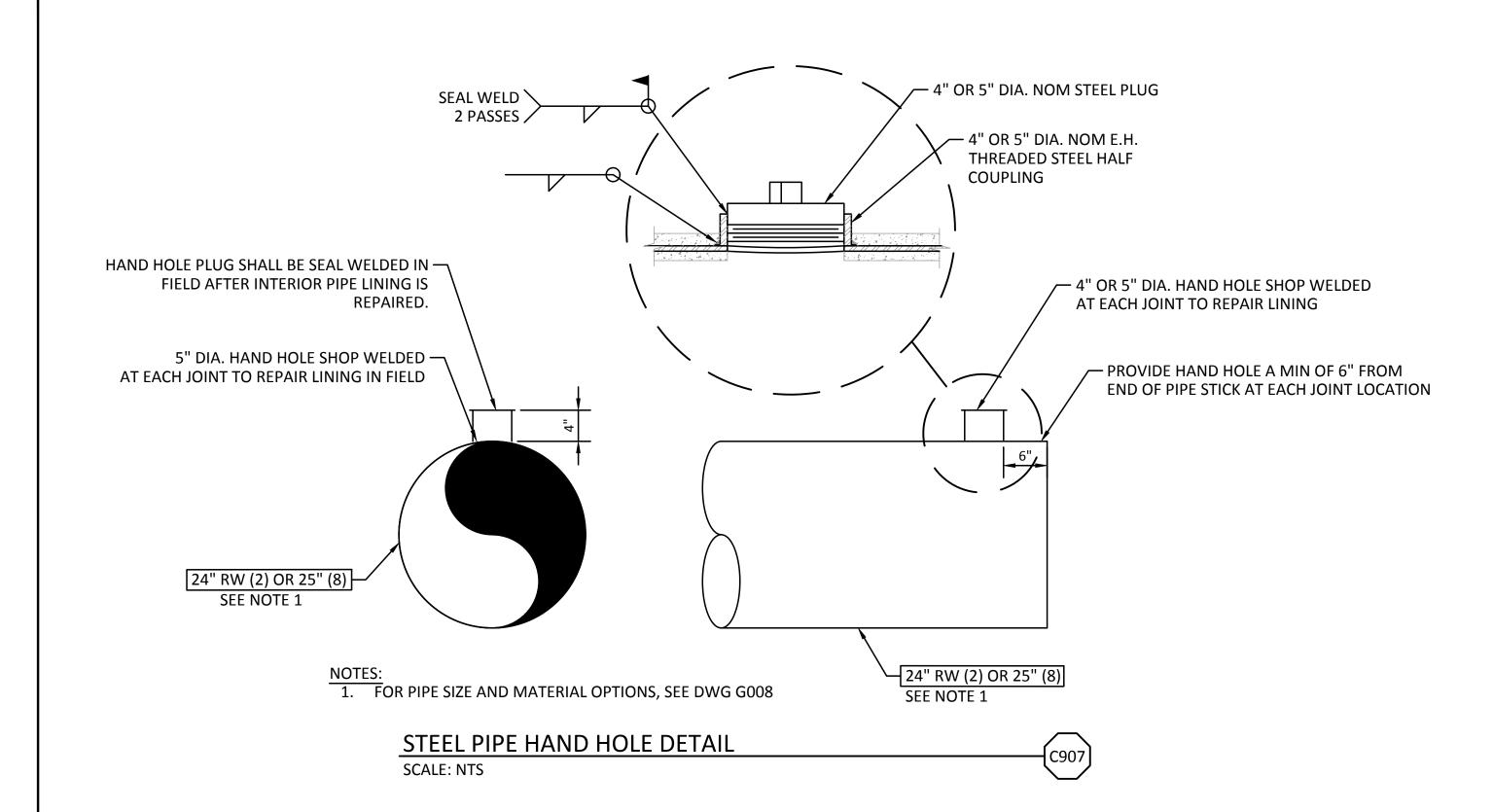
AIR GAP MINIMUM TWO PIPE

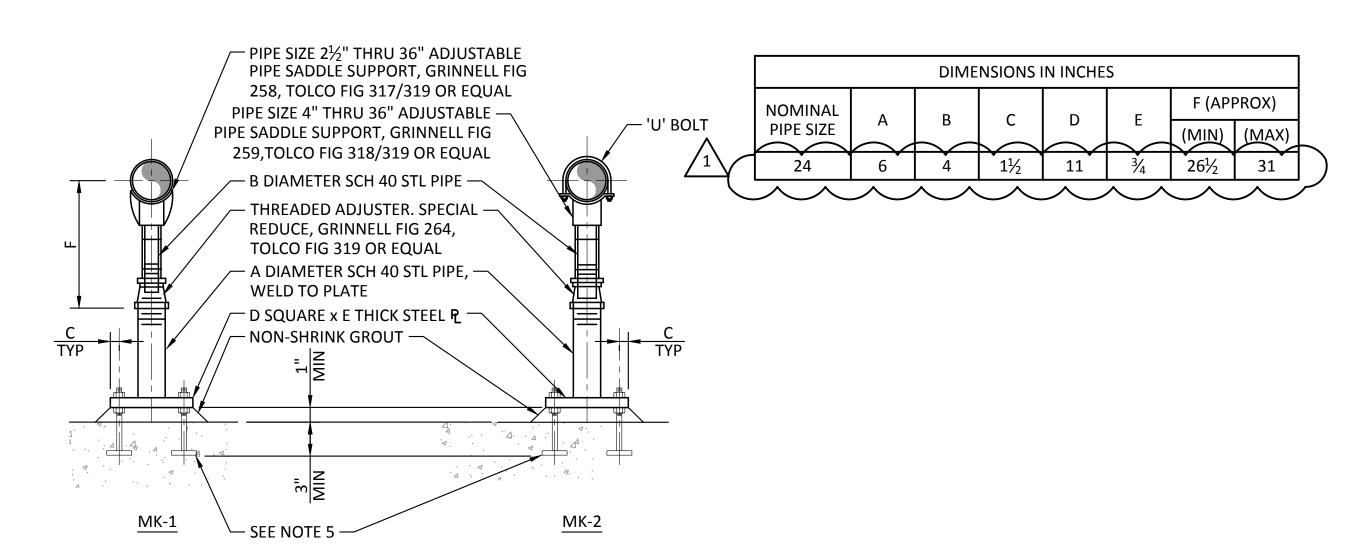
– DIAMETERS OR NOT LESS THAN 2"

(C904)



			Pat
KLAMATH RIVER RENEWAL CORPORATION	L DUDAG	DRAWING	
CITY OF YREKA WATER LINE	DESIGNED J. BURNS		
	DRAWN J. CHASE	CCOOA	000000
CIVIL STANDARD DETAILS 3	CHECKED J. LOWY	GC004	00:00
CIVIL STANDAND DETAILS S	PROJECT DATE 5/25/22		OB N





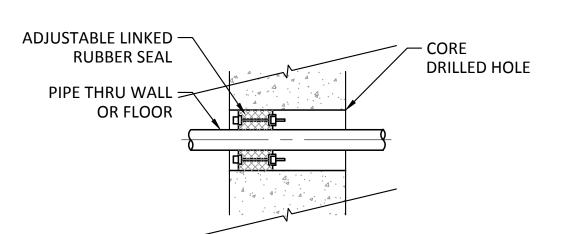
- 1. FOR ADDITIONAL REQUIREMENTS SEE SPEC SECTION 'PIPE SUPPORTS'.
- 2. GALVANIZE ALL PARTS AFTER FABRICATION.
- 3. WHERE PIPE SUPPORT OCCURS ON GRADE REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
- 4. THIS PIPE SUPPORT IS LIMITED TO PIPE FROM $2\frac{1}{2}$ " DIAMETER TO 36" DIAMETER INCLUSIVE. 5. GALVANIZED ANCHOR BOLT OR CONCRETE ANCHOR WITH TWO NUTS AND ONE
- LOCKWASHER. PROVIDE BAR $4x\frac{1}{2}x4$ " WELDED TO BOLT. TYP OF 4, SEE SPECS.

* SEE MANUFACTURER

ADJUSTABLE PIPE SUPPORT WITH OR WITHOUT 'U' BOLT

SCALE: NTS

-[M108]



NOTE:
THESE PIPE OPENING DETAILS ARE TO BE USED IN DRY WALLS ONLY AND SHALL NOT BE USED FOR WALLS WITH WATER ON ONE OR BOTH SIDES.

SLEEVED PIPE OPENING IN EXISTING WALL SCALE: NTS







KLAMATH RIVER RENEWAL CORPORATION	L BUBNS	DF
CITY OF YREKA WATER LINE	DESIGNED J. BURNS	
	DRAWN J. CHASE	
CIVIL STANDARD DETAILS 4	CHECKED J. LOWY	GC
CIVIL STANDARD DETAILS 4	PROJECT DATE 5/25/22	

DRAWING

1 6/10/22 JAL ADDENDUM NO. 01 0 5/25/22 JAL ISSUED FOR CONSTRUCTION REV DATE BY DESCRIPTION

EROSION AND SEDIMENT CONTROL NOTES:

THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN FOR WORK DURING CONSTRUCTION THAT MEETS ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.

GENERAL NOTES:

- A. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES (MULCHING OF STRAW, SAND DIVERSION DITCHES, ETC.) DICTATED BY FIELD CONDITIONS TO PREVENT EROSION OR THE INTRODUCTION OF DIRT, MUD, OR DEBRIS TO EXIST PUBLIC OR PRIVATE ROADWAY, ONTO ADJACENT PROPERTIES, INTO FALL CREEK, OR INTO KLAMATH RIVER DURING ANY PHASE OF CONSTRUCTION OPERATIONS. SPECIAL ATTENTION SHALL BE GIVEN TO ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES NOTED BELOW.
- THE GENERAL EROSION AND SEDIMENT CONTROL PLAN ON THE EC DRAWINGS ARE PROVIDED TO AID THE CONTRACTOR IN DEVELOPING THE EROSION AND SEDIMENT CONTROL PLAN ACCORDING TO CONTRACTOR SCHEDULE AND PHASING OF THE
- C. EROSION CONTROL DETAILS ARE FOR INFORMATION ONLY TO AID THE CONTRACTOR. THE FINAL LOCATIONS AND DETAIL SHALL BE SHOWN ON THE CONTRACTOR'S PREPARED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) DOCUMENT.
- D. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY EROSION CONTROL MEASURES FOR THE DURATION OF THE PROJECT. MAINTENANCE OF BOTH TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE CONSIDERED INCIDENTAL.
- E. ALL BMP REQUIRED MATERIALS SHALL MEET OR EXCEED STATE OF CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA) REQUIREMENTS.
- F. CONTRACTOR SHALL DEVELOP A SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLAN THAT WILL BE ATTACHED TO THE SWPPP.
- G. THE CONTRACTOR'S ECP SHALL MEET OR EXCEED THE REQUIREMENTS OUTLINED IN SPECIFICAITON SECTION 31 25 00 EROSION SEDIMENTATION CONTROLS PREPARED BY KIGHT PIESOLD CONSULTING.

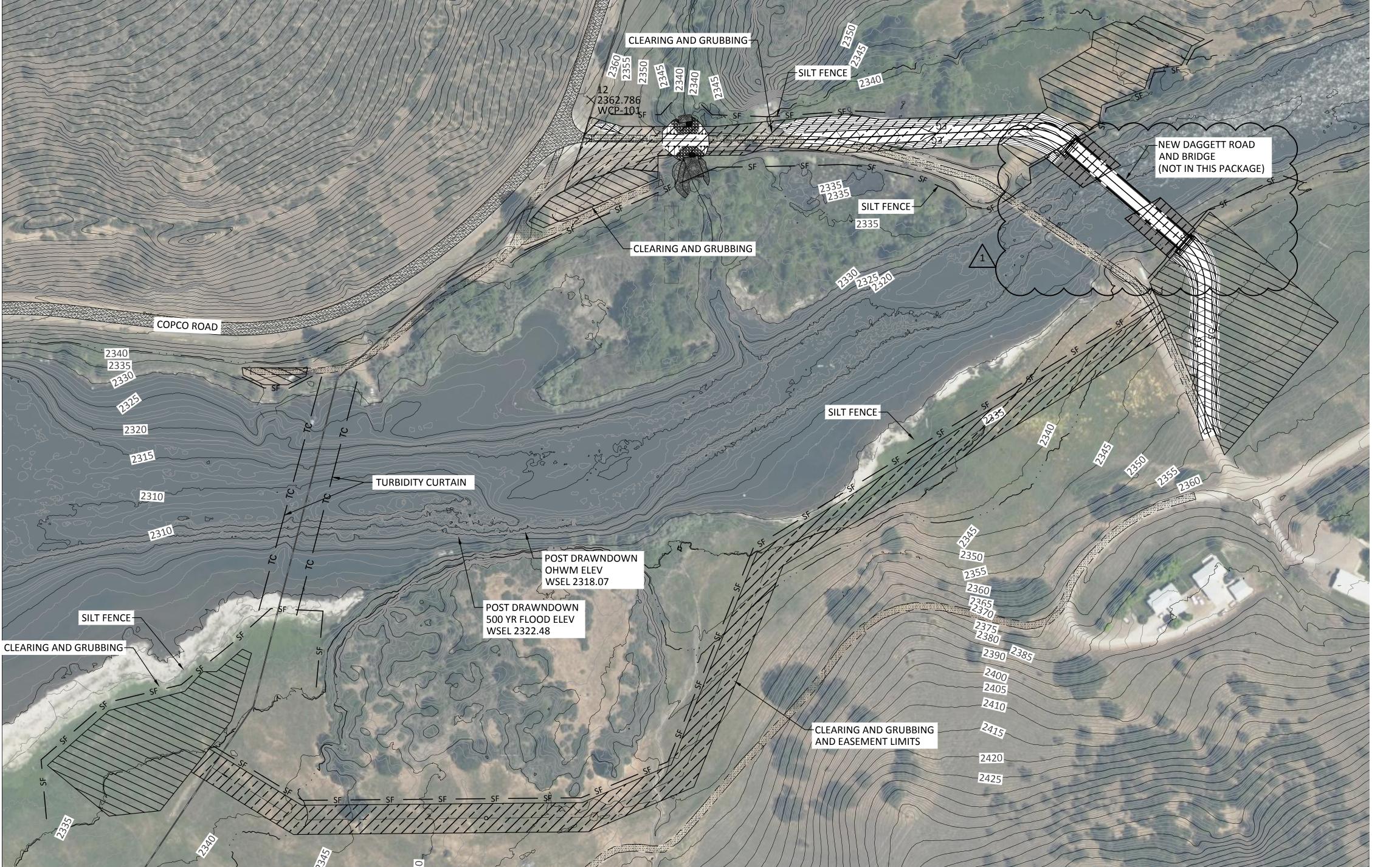
GRADING AND FINAL STABILIZATION:

- CLEARING, GRUBBING, AND GROUND DISTURBING ACTIVITIES SHALL BE CONFINED TO WITHIN CLEARING LIMITS AND SHALL MEET THE REQUIREMENTS OF SPECIFICATION 31 11 00. NO GRADING OR CONSTRUCTION ACTIVITIES SHALL OCCUR OUTSIDE OF THE PROPOSED IMPROVEMENTS SHOWN ON THE CONSTRUCTION PLANS FOR THIS PROJECT. PRESERVE EXIST VEGETATION BEYOND DISTURBED AREA -UTILIZE AS NATURAL BUFFER STRIPS.
- DURING CONSTRUCTION, PROVIDE POSITIVE DRAINAGE AWAY FROM
 - CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL FACILITIES, FENCING, AND STAGING AREA MATERIALS WHEN CONSTRUCTION IS COMPLETE. NO CONSTRUCTION DEBRIS, DEMOLITION MATERIALS, OR EXCESS EQUIPMENT SHALL BE LEFT ON SITE.
 - CONTRACTOR SHALL REGRADE DISTURBED SLOPED TO NEAR EXIST CONDITION AS APPROVED BY THE OWNER.
 - ESTABLISH A TEMPORARY VEGETATIVE COVER ON ALL DISTURBED AREAS AS SOON AS PRACTICAL AFTER THE LAST GROUND DISTURBING ACTIVITIES IN THE AREA. CONTRACTOR SHALL RESEED ALL DISTURBED AREAS WITH NATIVE VEGETATION, PER SPECIFICATION 31 25 00, AND IN ACCORDANCE WITH SHEET EC100.

BMP MEASURES:

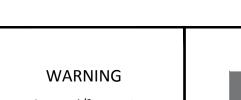
- ALL RUNOFF FROM SITE CONSTRUCTION ACTIVITIES AND FROM RAINFALL EVENTS SHALL BE DETAINED ON SITE AND FILTERED PRIOR TO DISCHARGE. STORMWATER RUNOFF SHALL NOT BE ALLOWED TO LEAVE THE SITE UNTREATED (LADEN W/ SUSPENDED SEDIMENT). IF THIS OCCURS, THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY PERMIT **VIOLATIONS AND FINES.**
- CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PREVENT ACCUMULATION OF CONSTRUCTION WASTE AND LITTER ON-SITE.
- CONTRACTOR SHALL INSTALL SILT FENCE AND/OR STRAW WATTLES AS INDICATED AND IN ANY ADDITIONAL LOCATIONS WHERE MATERIAL COULD LEAVE THE CONSTRUCTION SITE, AT CONTRACTOR'S EXPENSE.
- THE SILT FENCE AND/OR STRAW WATTLES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL HAVE AVAILABLE AT ALL TIMES ADEQUATE SPRINKLER EQUIPMENT TO FACILITATE DUST ABATEMENT AND CONTROL. CONTRACTOR SHALL PROVIDE ALL WATER NECESSARY FOR SPRINKLER OPERATIONS.
- STOCKPILED EXCAVATION MATERIALS SHALL BE PROTECTED FROM WATER AND WIND EROSION BY COVERING AS APPROPRIATE. WHEN EXPOSED FOR MORE THAN 14 DAYS, COVER STOCKPILES WITH IMPERMEABLE TARPS TO PROTECT DISTURBED SOILS AND SLOPES.
- ALL TOP SOIL SHALL BE STRIPPED AND PLACED IN SEPARATE STOCKPILE. AFTER BANK RESTORATION TO EXIST GRADE, TOP SOIL SHALL BE PLACED AND RESEEDED.
- CONTRACTOR SHALL HAVE ON-SITE AT ALL TIMES SPILL PREVENTION AND CONTROL MEASURES.
- ENSURE ALL EQUIPMENT IS CLEAN AND FREE OF OIL/FUEL LEAKS, DIRT, PLANTS, AND ANIMALS OR FRAGMENTS OF PLANTS, AQUATIC INVASIVE SPECIES, AND OTHER VEGETATIVE MATTER.

DESIGNED J. BURNS



EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1"= 100'



IF THIS BAR DOES NOT

MEASURE 1" THEN DRAWING IS NOT TO SCALE







DRAWN R. WOOD

CHECKED J. LOWY PROJECT DATE 5/25/22 EC100

DRAWING

SHEET NOTES:

EXISTING GRADE.

1. THE EXPOSED AND DISTURBED AREAS SHALL BE

NATIVE GRASS PER OWNER REQUIREMENTS

REGRADED TO MATCH EXISTING AND RESEED WITH

2. ALL FILL MATERIALS AND COMPACTION REQUIREMENTS

ARE DEFINED IN SPECIFICATION SECTION 31 00 00.

TRANSITION BETWEEN ALL NEW SURFACING AND

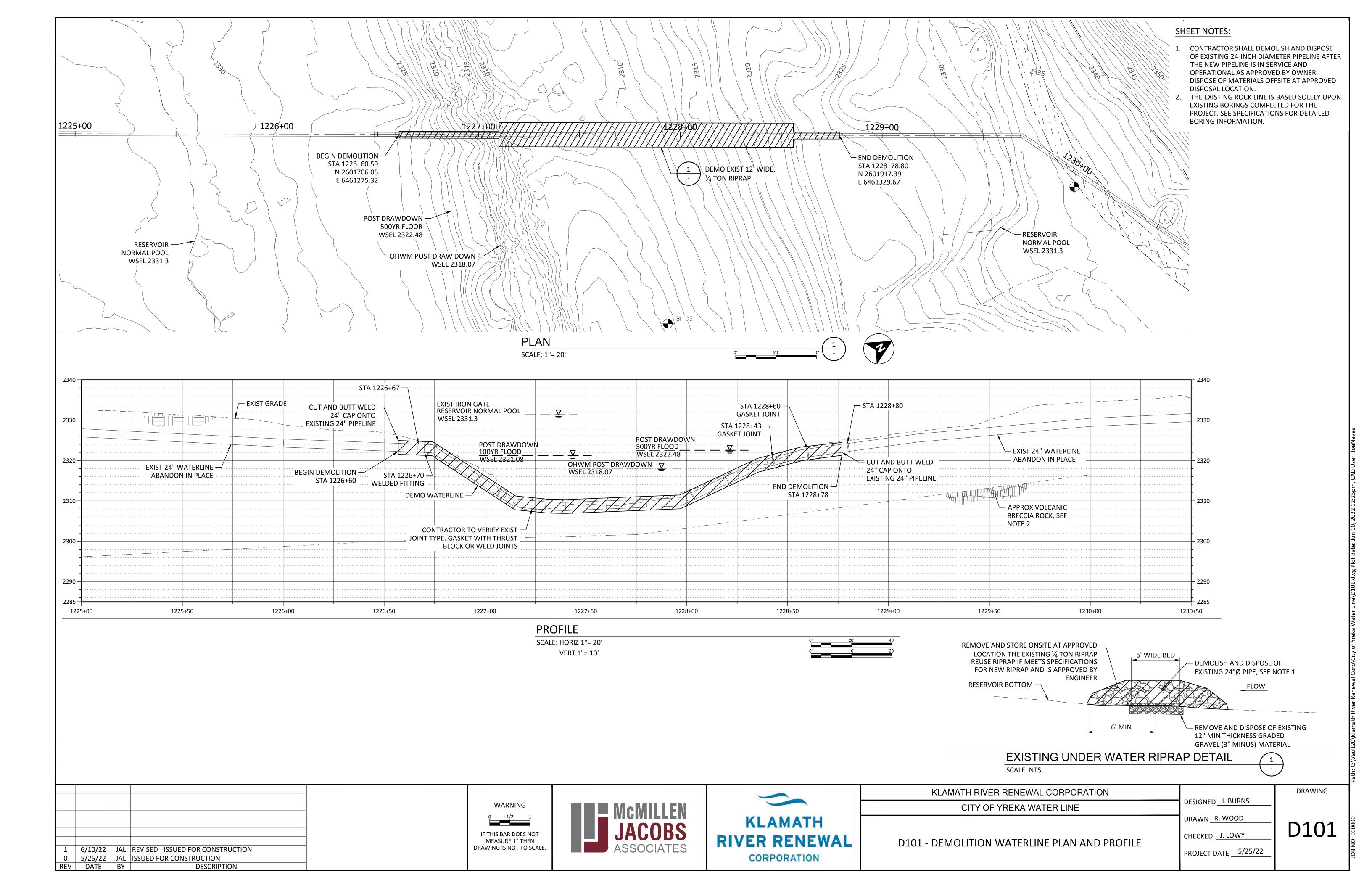
MATCH EXISTING GRADE AND PROVIDE SMOOTH

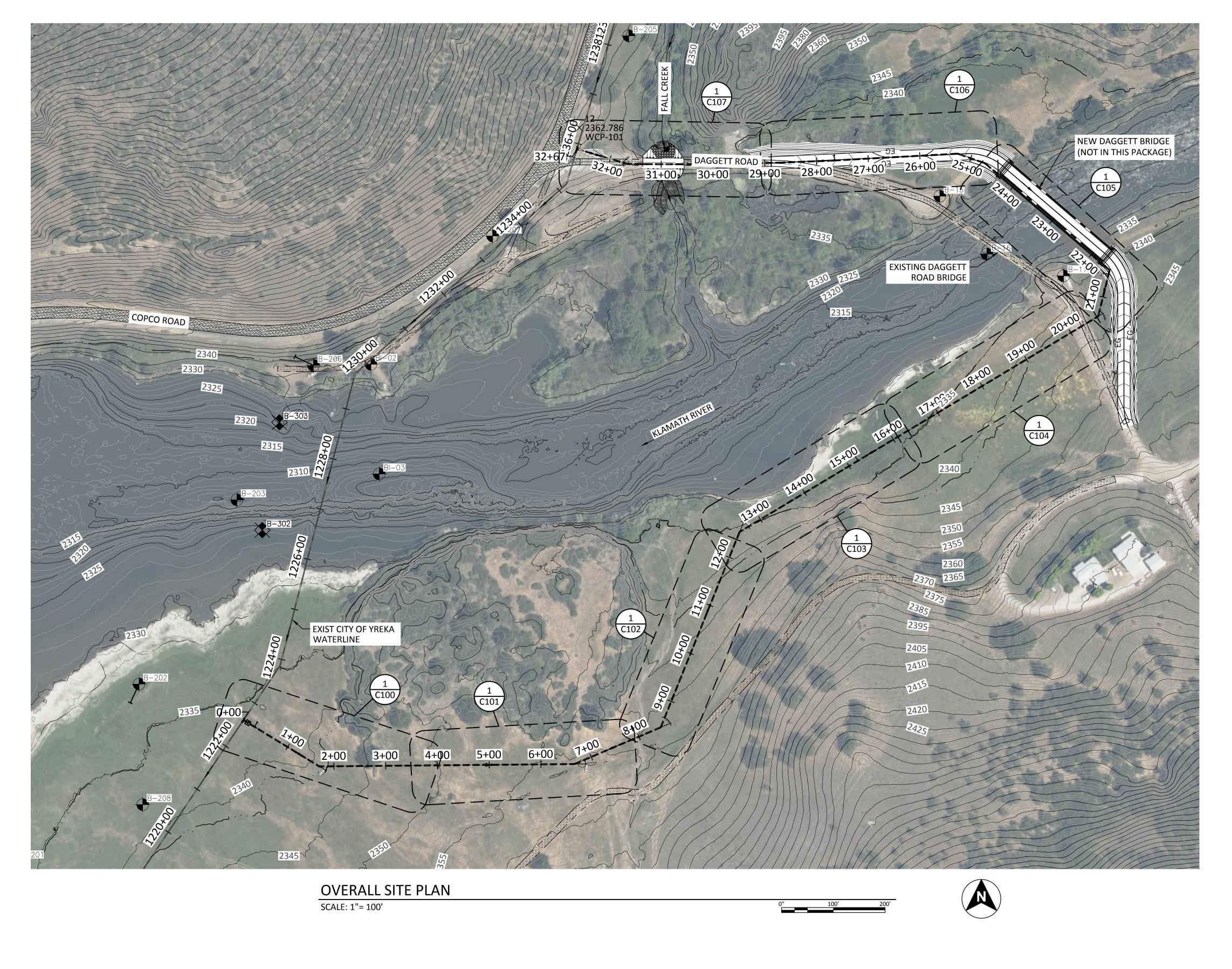
EROSION AND SEDIMENT CONTROL PLAN

CLEARING AND GRUBBING

KLAMATH RIVER RENEWAL CORPORATION

CITY OF YREKA WATER LINE





1 6/10/22 JAL REVISED - ISSUED FOR CONSTRUCTION
0 5/25/22 JAL ISSUED FOR CONSTRUCTION
REV DATE BY DESCRIPTION



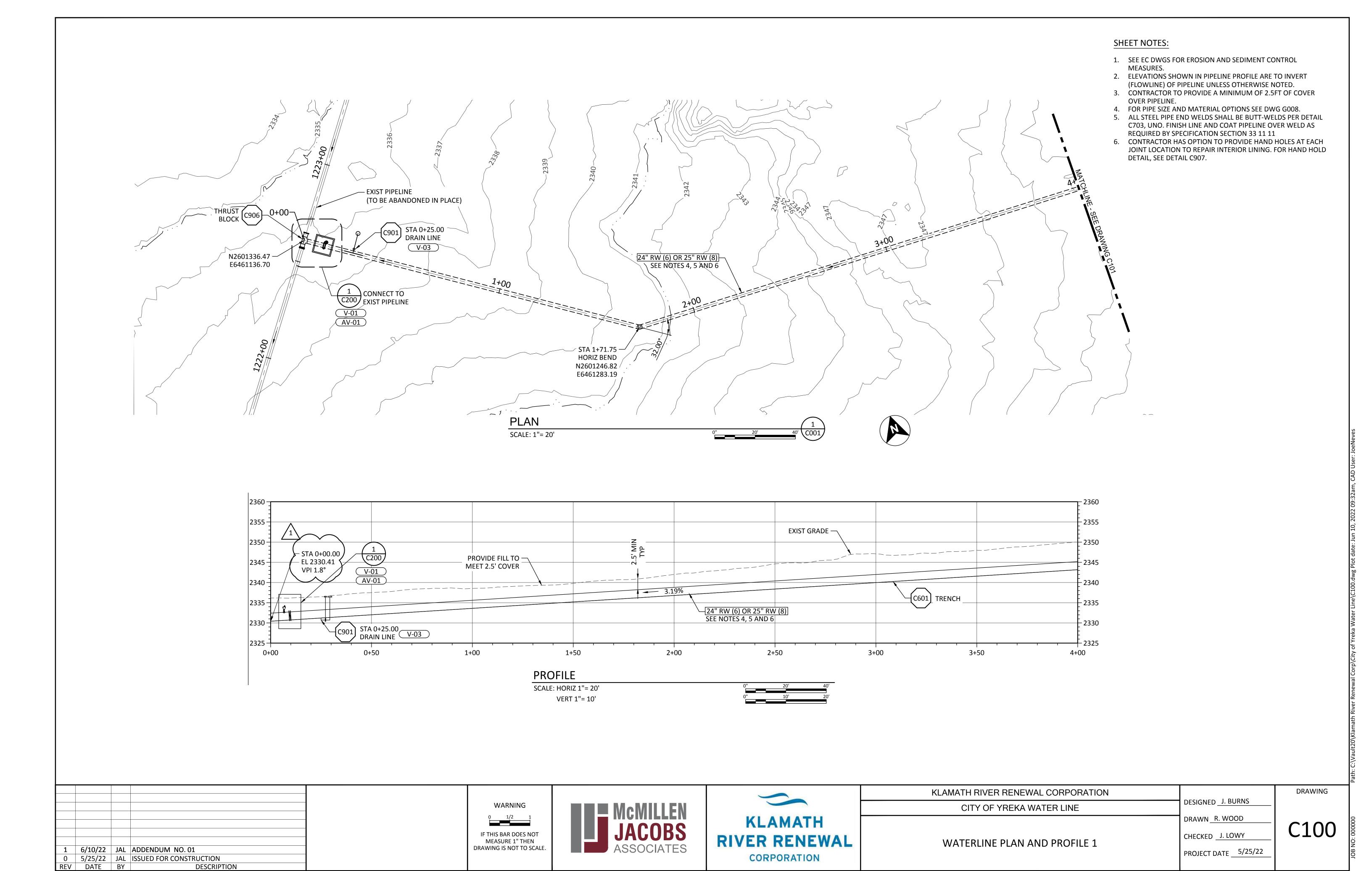


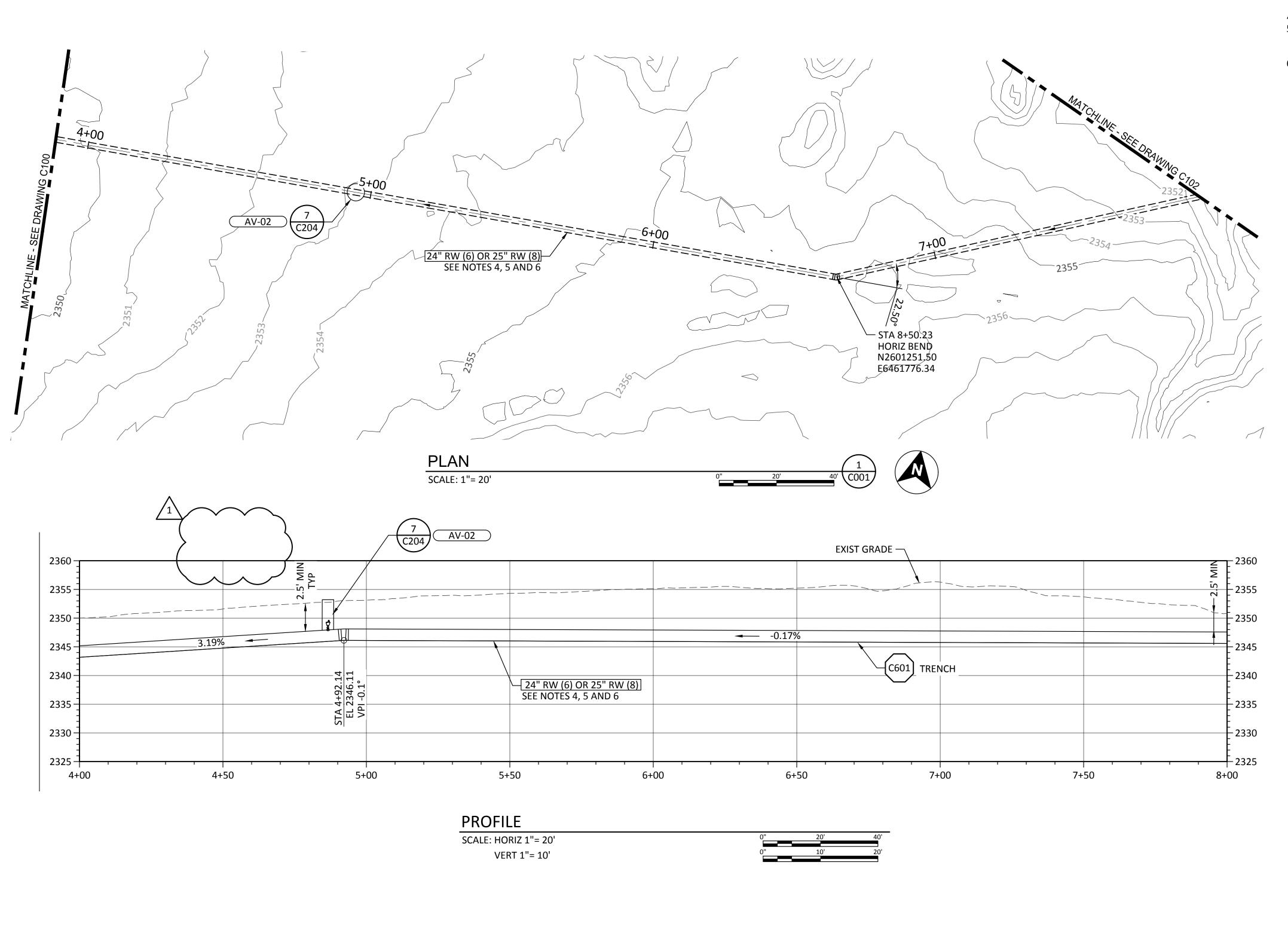


KLAMATH RIVER RENEWAL CORPORATION	DESCRIPTION A PLIPMS
CITY OF YREKA WATER LINE	DESIGNED J. BURNS
	DRAWN R. WOOD
OVERALL SITE PLAN	CHECKED J. LOWY
- · - · · · · - · · · · · · · · · · · ·	PROJECT DATE 5/25/22

DRAWING

C001





KLAMATH

RIVER RENEWAL

CORPORATION

WARNING

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

1 6/10/22 JAL ADDENDUM NO. 01

0 5/25/22 JAL ISSUED FOR CONSTRUCTION
REV DATE BY DESCRIPTION

SHEET NOTES:

KLAMATH RIVER RENEWAL CORPORATION

CITY OF YREKA WATER LINE

WATERLINE PLAN AND PROFILE 2

- SEE EC DWGS FOR EROSION AND SEDIMENT CONTROL
- MEASURES.
 2. ELEVATIONS SHOWN IN PIPELINE PROFILE ARE TO INVERT
- (FLOWLINE) OF PIPELINE UNLESS OTHERWISE NOTED.3. CONTRACTOR TO PROVIDE A MINIMUM OF 2.5FT OF COVER
- OVER PIPELINE.
 4. FOR PIPE SIZE AND MATERIAL OPTIONS SEE DWG G008.
- 5. ALL STEEL PIPE END WELDS SHALL BE BUTT-WELDS PER DETAIL C703, UNO. FINISH LINE AND COAT PIPELINE OVER WELD AS REQUIRED BY SPECIFICATION SECTION 33 11 11
- 6. CONTRACTOR HAS OPTION TO PROVIDE HAND HOLES AT EACH JOINT LOCATION TO REPAIR INTERIOR LINING. FOR HAND HOLD DETAIL, SEE DETAIL C907.

DRAWING

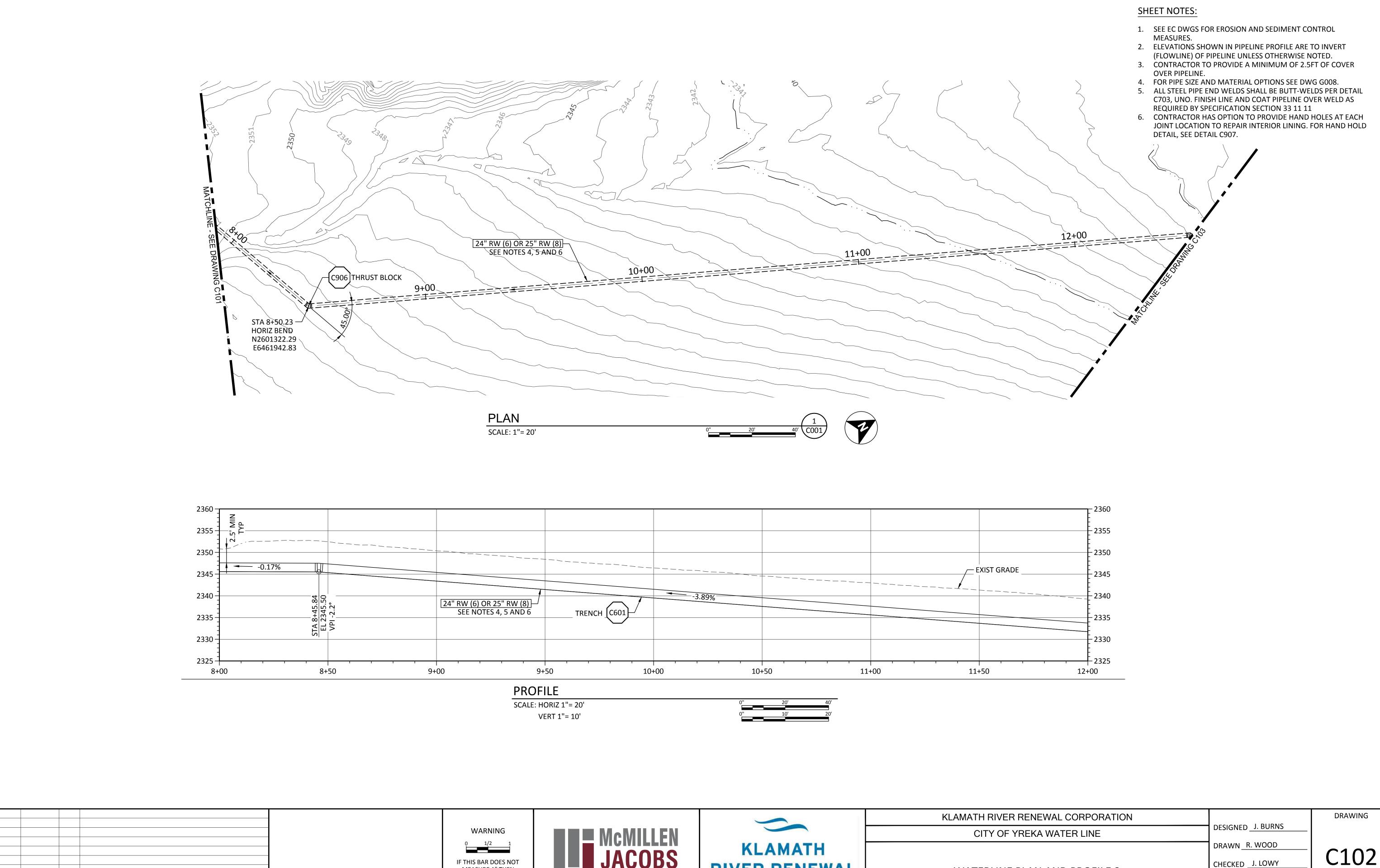
C101

DESIGNED J. BURNS

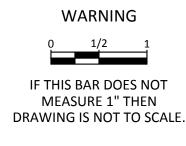
DRAWN R. WOOD

CHECKED J. LOWY

PROJECT DATE 5/25/22



1 6/10/22 JAL REVISED - ISSUED FOR CONSTRUCTION 0 5/25/22 JAL ISSUED FOR CONSTRUCTION REV DATE BY DESCRIPT DESCRIPTION



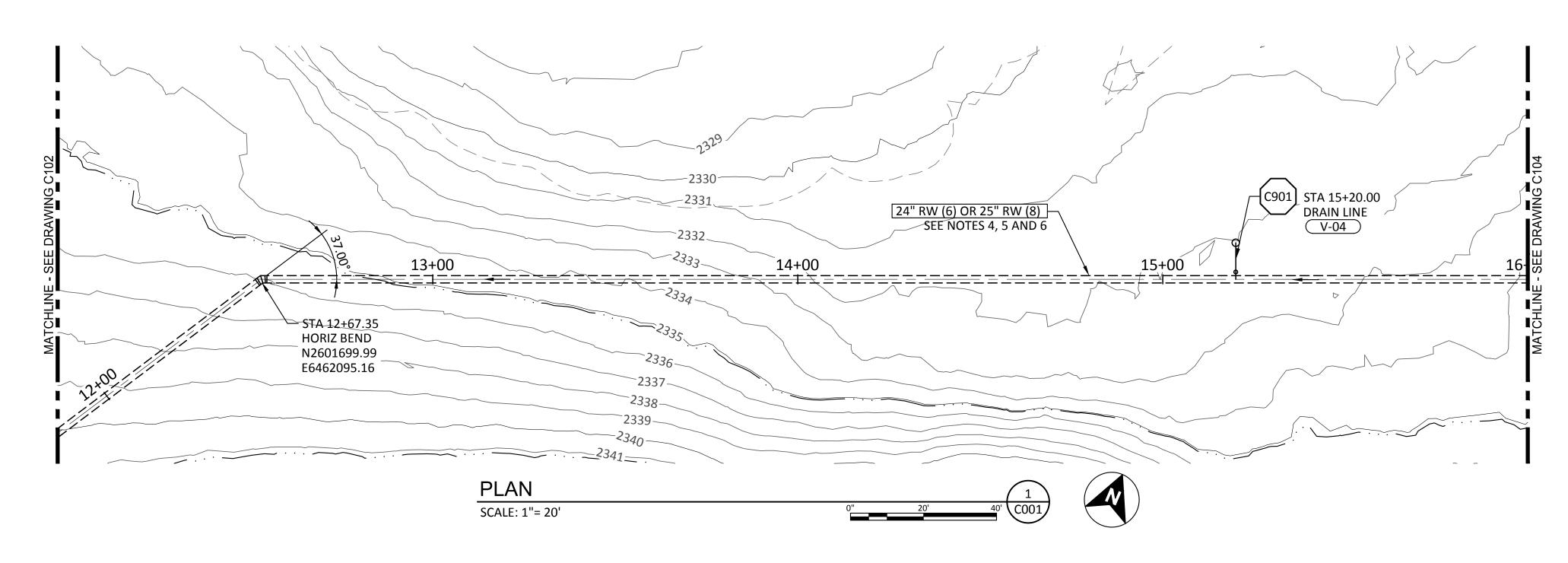


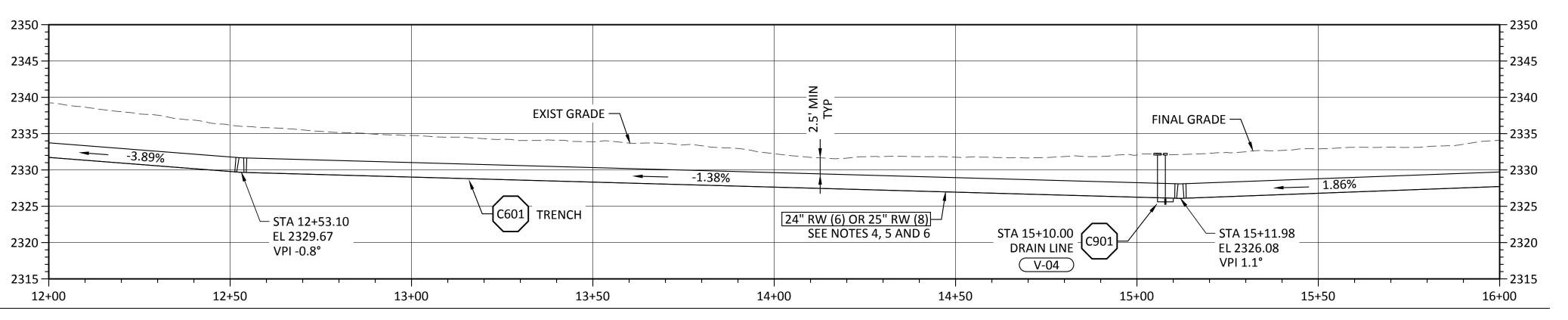


KLAMATH RIVER RENEWAL CORPORATION	DESCRIPTION AND ADDRESS.	
CITY OF YREKA WATER LINE	DESIGNED J. BURNS	
	DRAWN R. WOOD	
WATERLINE PLAN AND PROFILE 3	CHECKED J. LOWY	
VV/ (TERCINAL TEXTILATION TELLS	PROJECT DATE 5/25/22	

SHEET NOTES:

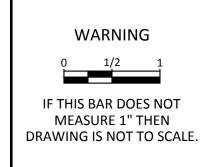
- 1. SEE EC DWGS FOR EROSION AND SEDIMENT CONTROL MEASURES.
- 2. ELEVATIONS SHOWN IN PIPELINE PROFILE ARE TO INVERT (FLOWLINE) OF PIPELINE UNLESS OTHERWISE NOTED.
- 3. CONTRACTOR TO PROVIDE A MINIMUM OF 2.5FT OF COVER OVER PIPELINE.
- 4. FOR PIPE SIZE AND MATERIAL OPTIONS SEE DWG G008.
- 5. ALL STEEL PIPE END WELDS SHALL BE BUTT-WELDS PER DETAIL C703, UNO. FINISH LINE AND COAT PIPELINE OVER WELD AS REQUIRED BY SPECIFICATION SECTION 33 11 11
- 6. CONTRACTOR HAS OPTION TO PROVIDE HAND HOLES AT EACH JOINT LOCATION TO REPAIR INTERIOR LINING. FOR HAND HOLD DETAIL, SEE DETAIL C907.





PROFILE SCALE: HORIZ 1"= 20' VERT 1"= 10'

1	6/10/22	JAL	REVISED - ISSUED FOR CONSTRUCTION
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION



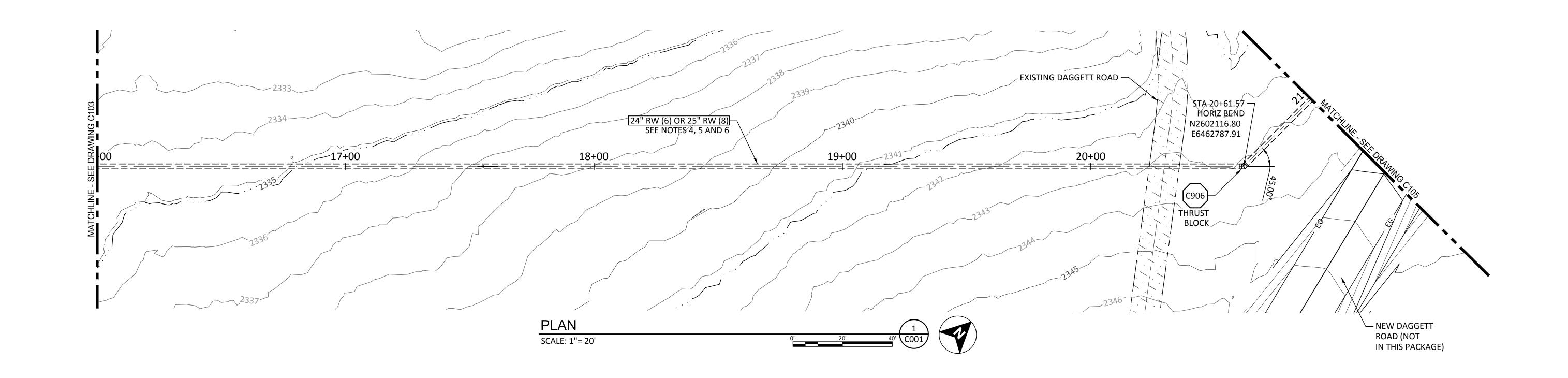


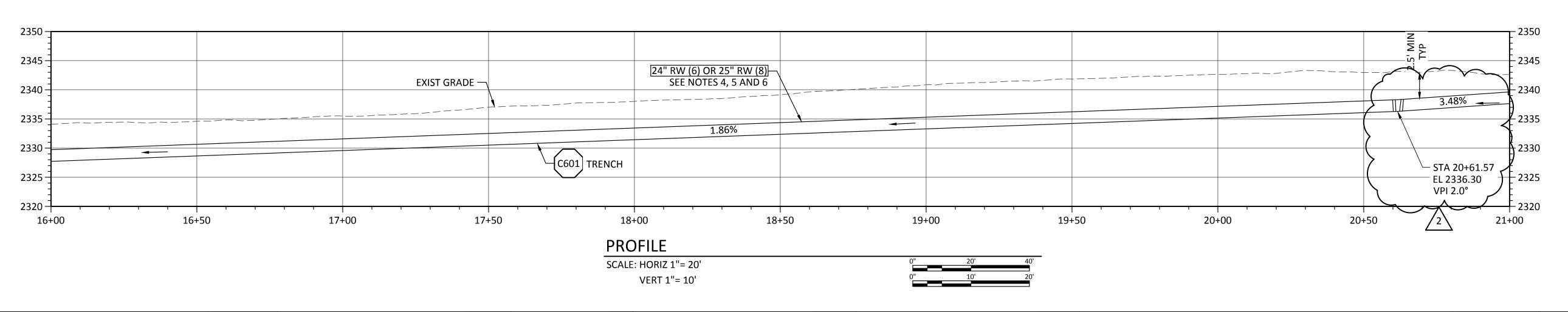


KLAMATH RIVER RENEWAL CORPORATION		DRAWING
CITY OF YREKA WATER LINE	DESIGNED J. BURNS	
	DRAWN R. WOOD	C103
WATERLINE PLAN AND PROFILE 4	CHECKED J. LOWY	CT02
WATERLINE LAN AND FROITE 4	PROJECT DATE5/25/22	

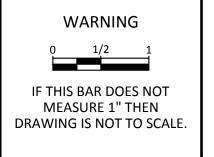
SHEET NOTES:

- SEE EC DWGS FOR EROSION AND SEDIMENT CONTROL MEASURES.
- 2. ELEVATIONS SHOWN IN PIPELINE PROFILE ARE TO INVERT (FLOWLINE) OF PIPELINE UNLESS OTHERWISE NOTED.
- 3. CONTRACTOR TO PROVIDE A MINIMUM OF 3.0 FT OF COVER OVER PIPELINE UNDER THE ROAD AND 2.5 FT OF COVER OUTSIDE OF ROAD.
- 4. FOR PIPE SIZE AND MATERIAL OPTIONS SEE DWG G008.
- 5. ALL STEEL PIPE END WELDS SHALL BE BUTT-WELDS PER DETAIL C703, UNO. FINISH LINE AND COAT PIPELINE OVER WELD AS REQUIRED BY SPECIFICATION SECTION 33 11 11
- 6. CONTRACTOR HAS OPTION TO PROVIDE HAND HOLES AT EACH JOINT LOCATION TO REPAIR INTERIOR LINING. FOR HAND HOLD DETAIL, SEE DETAIL C907.





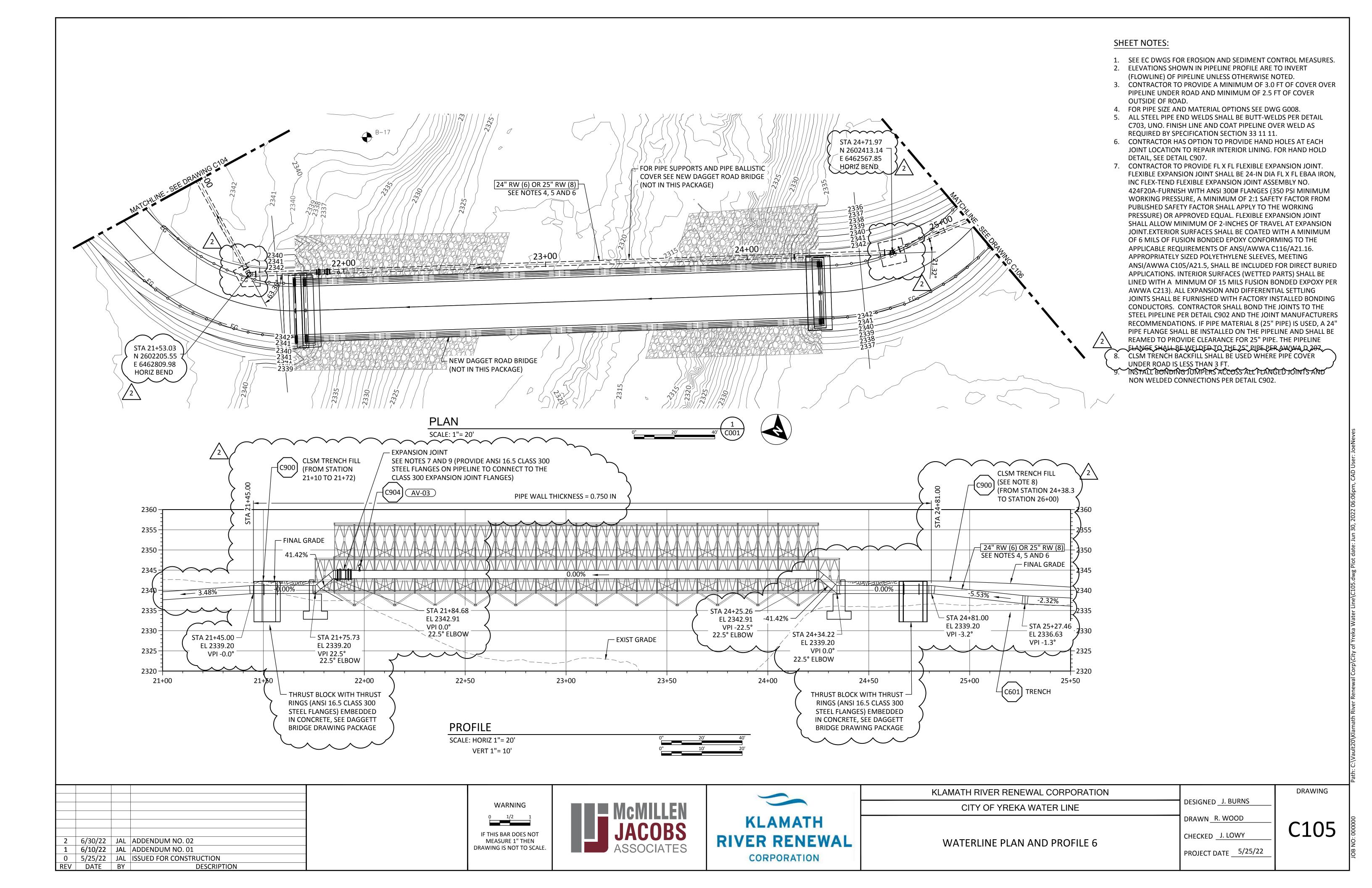
2	6/30/22	JAL	ADDENDUM NO. 02
1	6/10/22	JAL	ADDENDUM NO. 01
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION

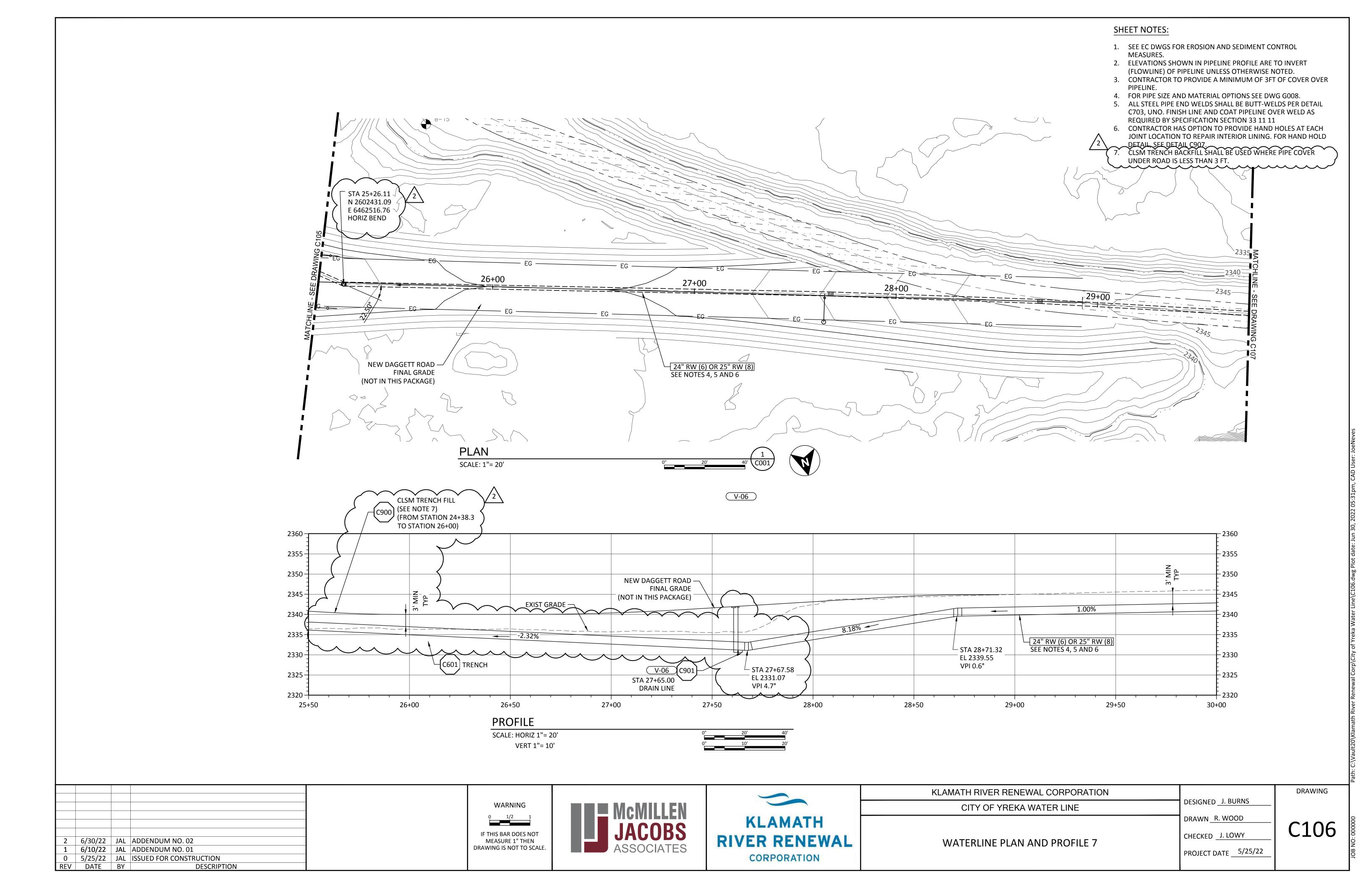


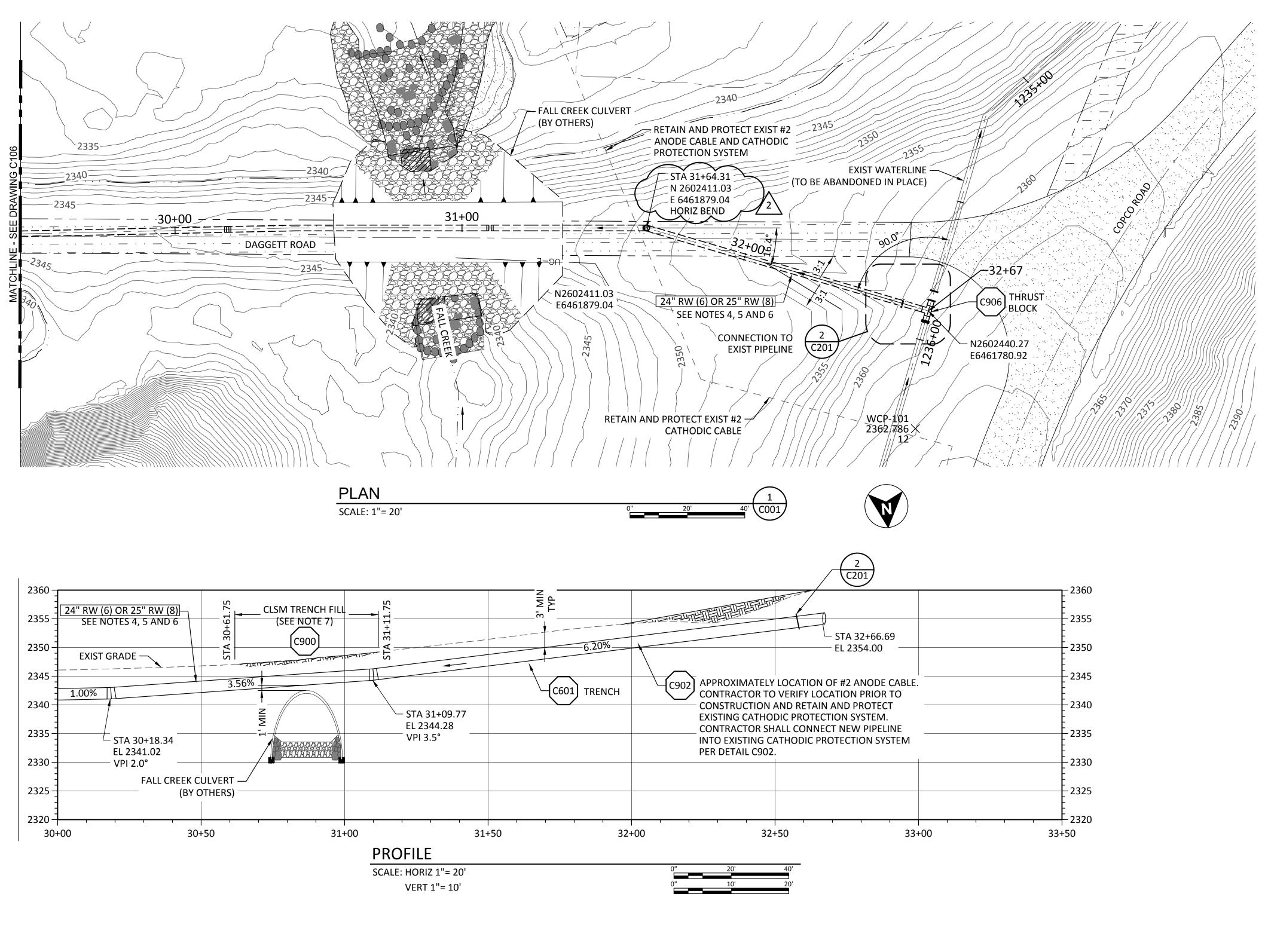




KLAMATH RIVER RENEWAL CORPORATION			
CITY OF YREKA WATER LINE	DESIGNED J. BURNS		
	DRAWN R. WOOD		
WATERLINE PLAN AND PROFILE 5	CHECKED J. LOWY		
	PROJECT DATE 5/25/22		







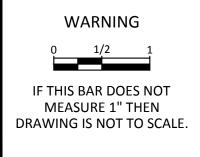
SHEET NOTES:

- SEE EC DWGS FOR EROSION AND SEDIMENT CONTROL MEASURES.
- 2. ELEVATIONS SHOWN IN PIPELINE PROFILE ARE TO INVERT (FLOWLINE) OF PIPELINE UNLESS OTHERWISE NOTED.
- 3. CONTRACTOR TO PROVIDE A MINIMUM OF 3FT OF COVER OVER PIPELINE UNDER THE ROAD AND 2.5 FT MIN OUTSIDE OF ROAD.
- 4. FOR PIPE SIZE AND MATERIAL OPTIONS SEE DWG G008.
- 5. ALL STEEL PIPE END WELDS SHALL BE BUTT-WELDS PER DETAIL C703, UNO. FINISH LINE AND COAT PIPELINE OVER WELD AS REQUIRED BY SPECIFICATION SECTION 33 11 11
- CONTRACTOR HAS OPTION TO PROVIDE HAND HOLES AT EACH JOINT LOCATION TO REPAIR INTERIOR LINING. FOR HAND HOLD DETAIL, SEE DETAIL C907.
- CLSM TRENCH BACKFIILL SHALL BE USED WHERE PIPE COVER UNDER ROAD IS LESS THAN 3 FT.

DRAWING

C107

2	6/30/22	JAL	ADDENDUM NO. 02
1	6/10/22	JAL	ADDENDUM NO. 01
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION
RF\/	DATE	RV	DESCRIPTION





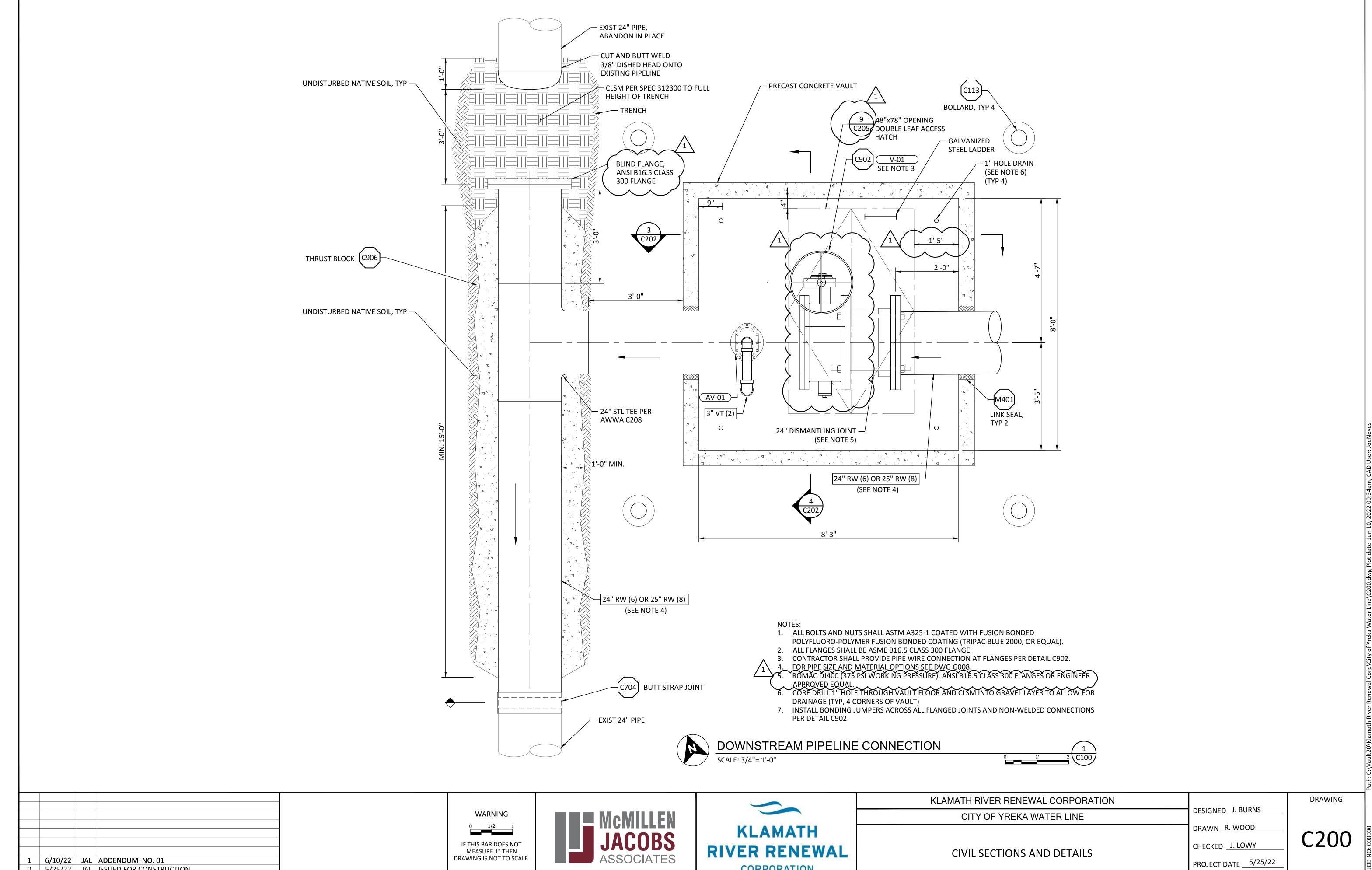


KLAMATH RIVER RENEWAL CORPORATION

CITY OF YREKA WATER LINE

DESIGNED J. BURNS

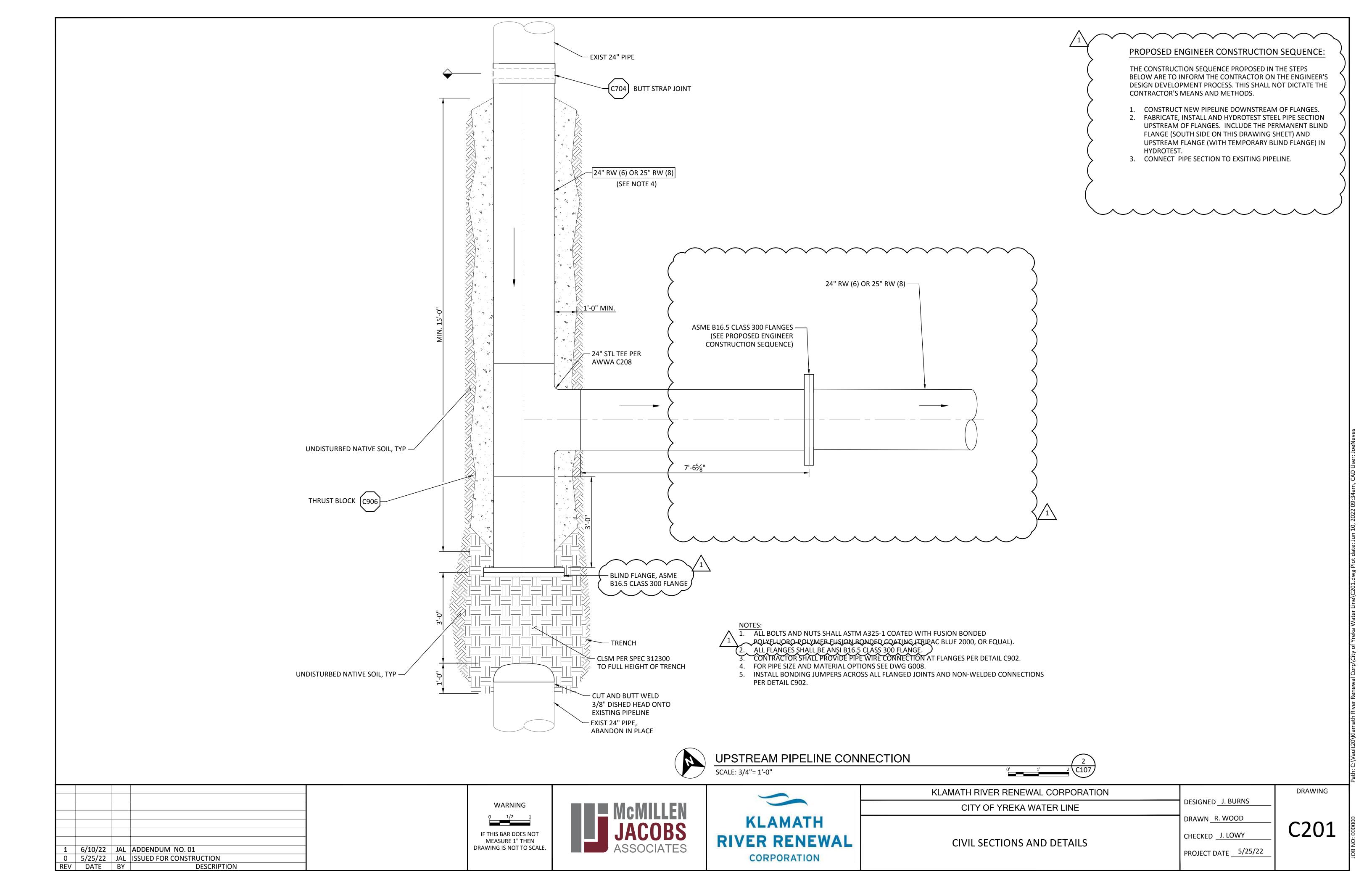
DRAWN R. WOOD

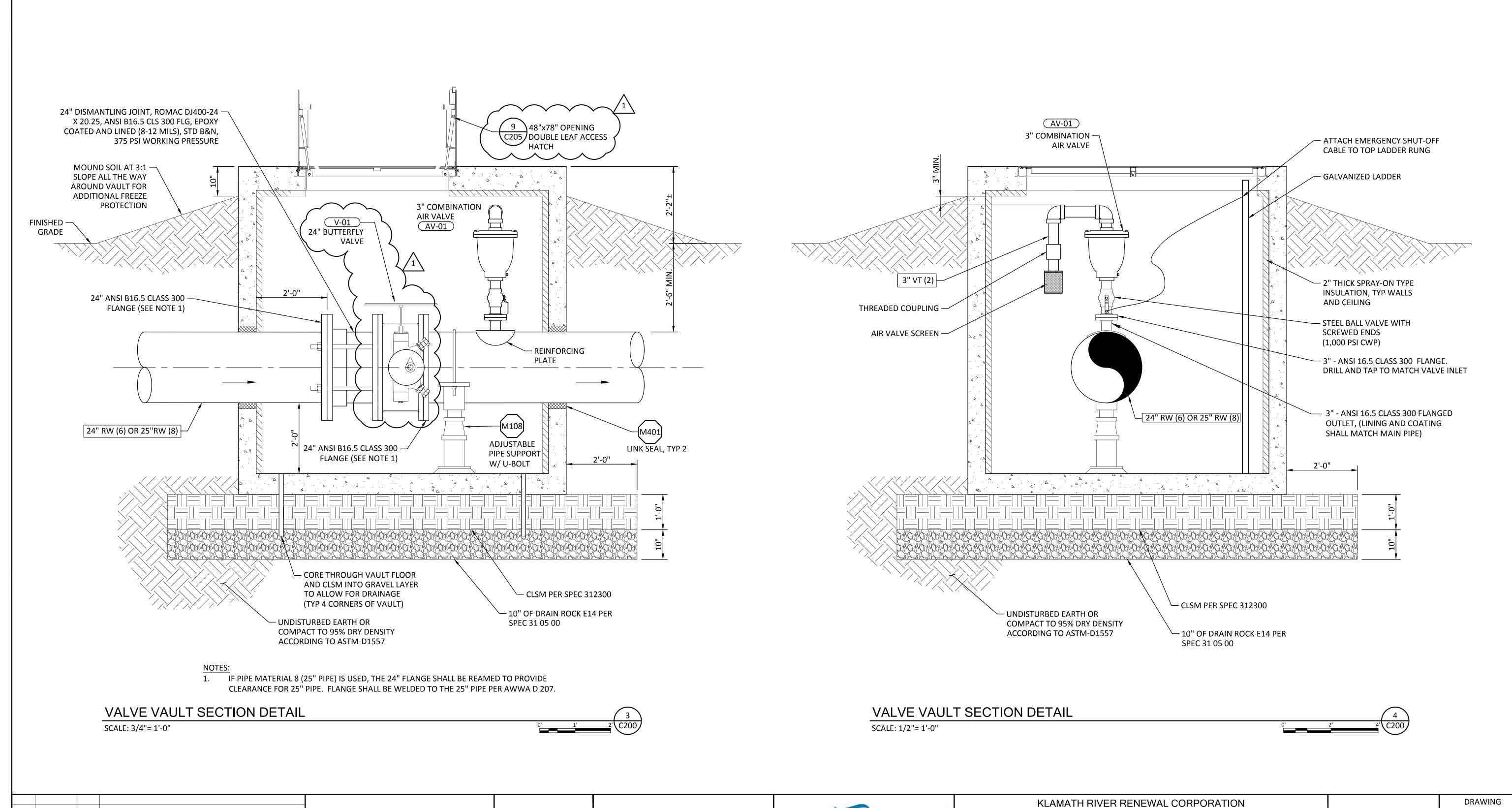


0 5/25/22 JAL ISSUED FOR CONSTRUCTION REV DATE BY DESCRIPT

DESCRIPTION

CORPORATION





KLAMATH

RIVER RENEWAL

CORPORATION

WARNING

IF THIS BAR DOES NOT

MEASURE 1" THEN

DRAWING IS NOT TO SCALE

1 6/10/22 JAL ADDENDUM NO. 01

REV DATE BY

0 5/25/22 JAL ISSUED FOR CONSTRUCTION

DESCRIPTION

C202

DESIGNED J. BURNS

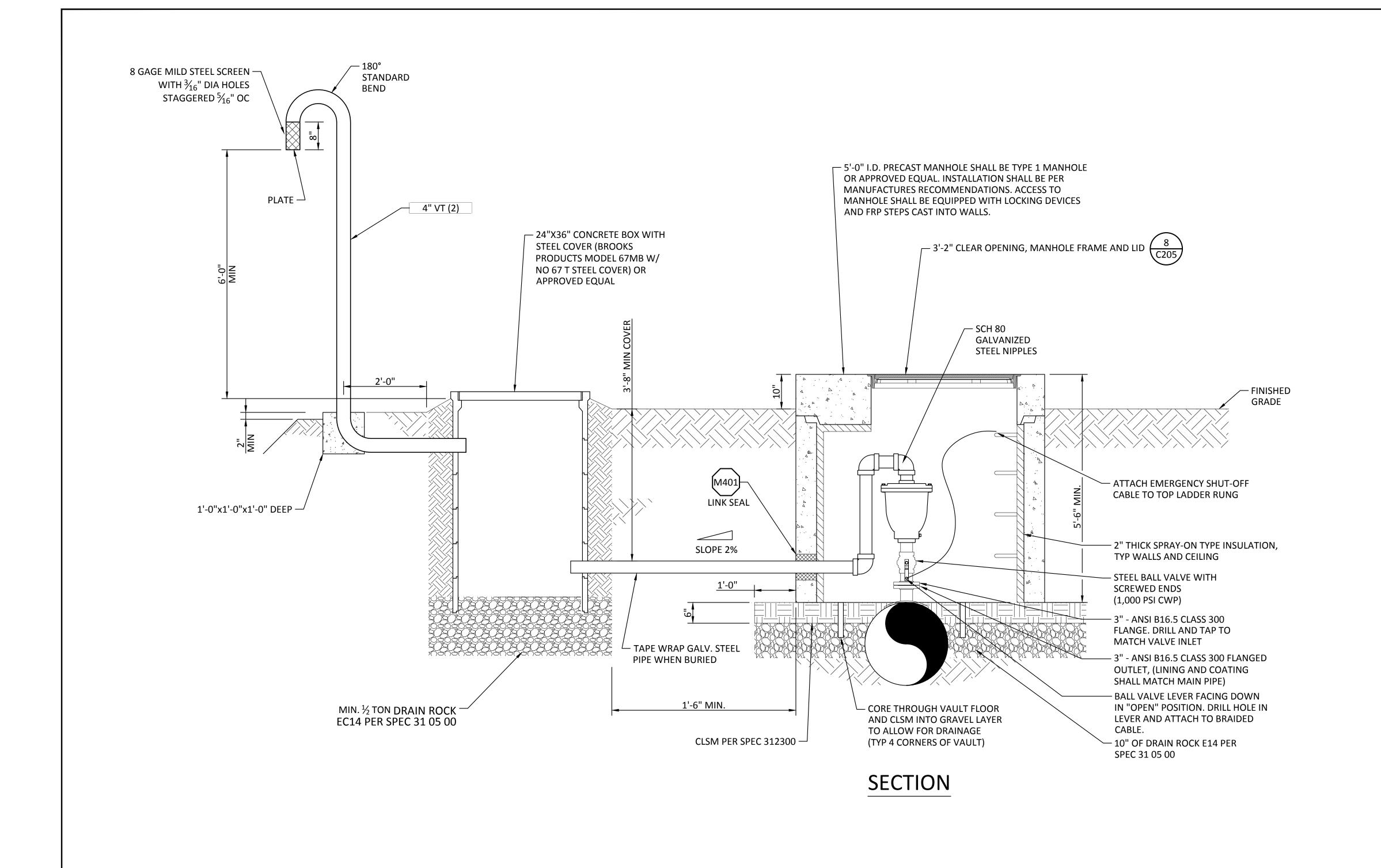
DRAWN R. WOOD

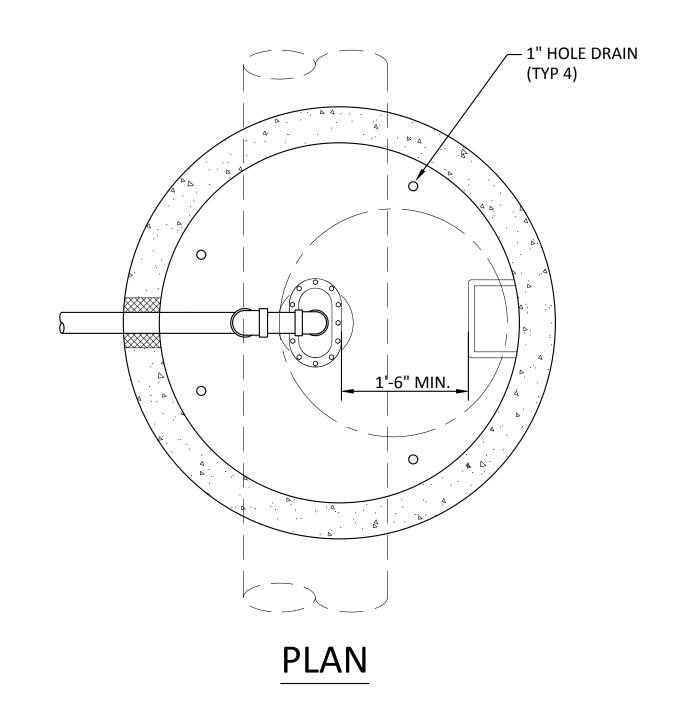
CHECKED J. LOWY

PROJECT DATE ___5/25/22

CITY OF YREKA WATER LINE

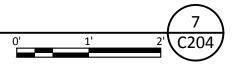
CIVIL SECTIONS AND DETAILS



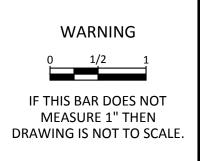


BURIED AIR/VAC ASSEMBLY SECTION

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



1	6/10/22	JAL	REVISED - ISSUED FOR CONSTRUCTION	
0	5/25/22	JAL	ISSUED FOR CONSTRUCTION	
REV	DATE	BY	DESCRIPTION	



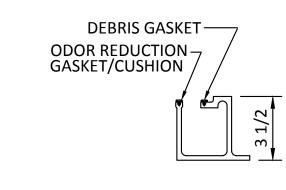




KLAMATH RIVER RENEWAL CORPORATION	L DIIDNIG
CITY OF YREKA WATER LINE	DESIGNED J. BURNS
	DRAWN R. WOOD
CIVIL SECTIONS AND DETAILS	CHECKED J. LOWY
CIVIL SECTIONS / MID DEI/MES	PROJECT DATE5/25/22

DRAWING

C204

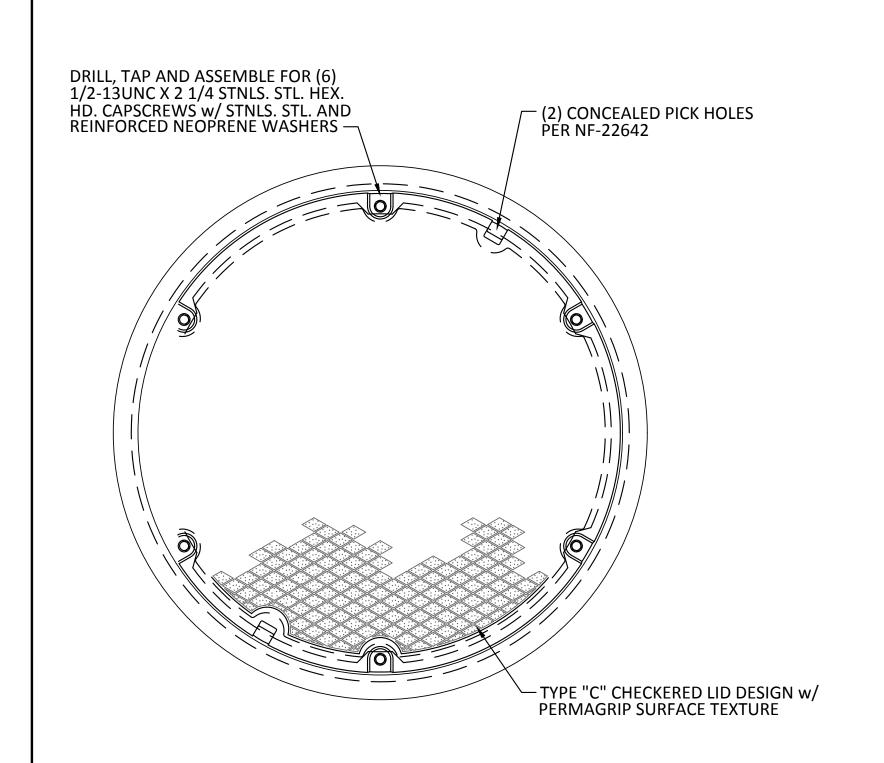


1/4" EXTRUDED TROUGH SECTION W/INTEGRAL CONT. ANCHOR FLANGE & GROOVE FOR GASKET/CUSHION FRAME MAT'L: ALUMINUM 6063-T5

DEBRIS FREE FRAME RAIL

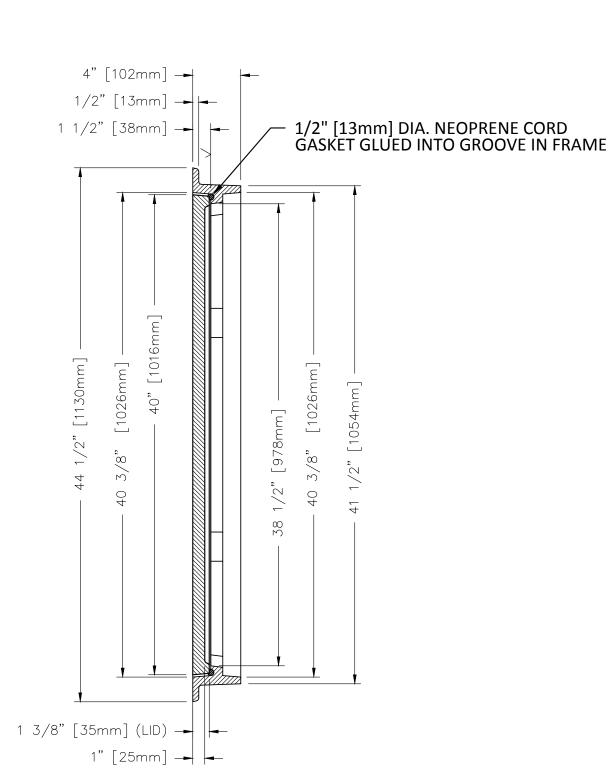
SCALE: NTS





MANHOLE FRAME AND LID

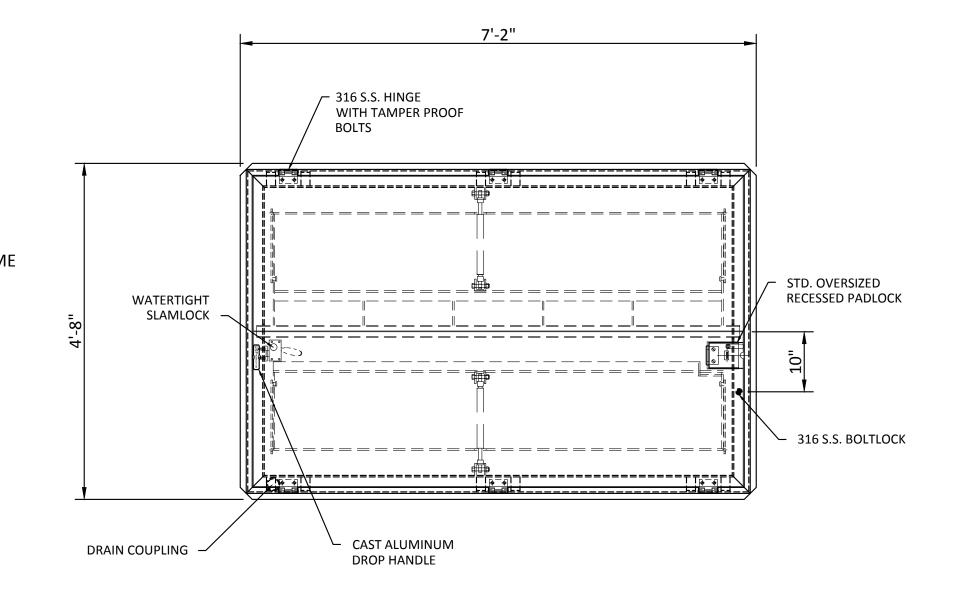
SCALE: NTS

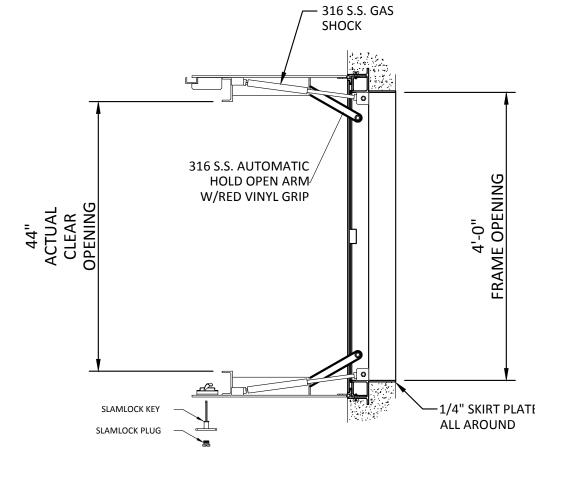


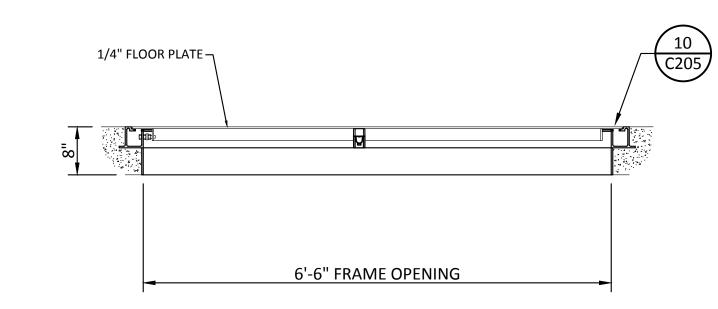
NOTE: ALL DIMENSIONS SHOWN ARE IN ENGLISH AND [METRIC] MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B FINISH: NO PAINT

WEIGHT: FRAME 145#, LID 325#

(NEENAH FRAME 6461-0022 AND LID 6461-0292 OR APPROVED EQUAL)







SELECTED FEATURES 1. DEBRIS FREE FRAME

2. S.S GAS SHOCKS 3. SLAMLOCK

4. SKIRT FOR 8" DEEP SLAB

5. OVERSIZED RECESSED PADLOCK

6. BITUMINOUS COATING

NOTES

1. MATERIAL: ALUMINUM 2. FINISH: MILL

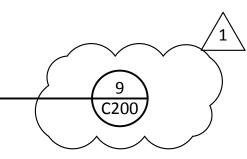
3. LOADING: 300 PSF

4. 316 SS NUTS & BOLTS

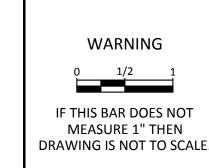
5. AREA OF FRAME IN CONTACT WITH CONCRETE TO BE PAINTED WITH

BITUMINOUS COATING 6. APPROX HATCH WT: 299.74 LBS

(US FABRICATIONS TPD 78 X 48 ALUMINUM 78"x48" HATCH MODEL # 1000200664 OR APPROVED EQUAL) SCALE: NTS



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KLAMATH RIVER RENEWAL CORPORATION	
CITY OF YREKA WATER LINE	DESIGNED J. BURNS
	DRAWN R. WOOD
	CHECKED J. LOWY
HATCH DETAILS	PROJECT DATE 5/25/22

C205