



NEVADA IRRIGATION DISTRICT HEMPHILL DIVERSION PROJECT PLACER COUNTY, CALIFORNIA

VOLUME 2 - CONSTRUCTION DRAWINGS JANUARY 2022

50% DESIGN SUBMITTAL

NEVADA IRRIGATION DISTRICT

HEMPHILL DIVERSION PROJECT PLACER COUNTY, CALIFORNIA 50% DESIGN



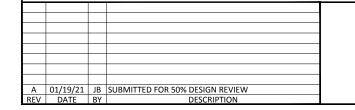


















NEVADA IRRIGATION DISTRICT	DESIGNED K. JENSEN
HEMPHILL DIVERSION PROJECT	DESIGNED
	DRAWN_J. NEVES
LOCATION AND MODIFIES AND DECISION IN AIR	CHECKED V. AUTIER
LOCATION MAP, VICINITY MAP AND PROJECT LIMITS	PROJECT DATE 01/19/21

G001

	DRAWING DESCRIPTION	50% SUBMITTAL
SHEET NO.		
	CIVIL	
GC001	GENERAL CIVIL NOTES	Y
C001	OVERALL SITE KEY PLAN	Y
C051	COFFERDAM AND DEWATERING PLAN	
C052	COFFERDAM AND DEWATERING SECTIONS 1	
C053	COFFERDAM AND DEWATERING SECTIONS 2	
C101	SITE GRADING - PLAN	Y
C102	SITE GRADING - SECTIONS 1	
C103	SITE GRADING - SECTIONS 2	
C104	SITE GRADING - DETAILS 1	
C105	SITE GRADING - DETAILS 2	
C201	ROUGHENED CHANNEL - PLAN AND PROFILE	Y
C202	ROUGHENED CHANNEL - SECTIONS 1	Y
C203	ROUGHENED CHANNEL - SECTIONS 2	Y
C204	ROUGHENED CHANNEL - SECTIONS 3	Y
C205	HEADWORKS AND FISH SCREEN - PLAN AND PROFILE	Y
C205	HEADWORKS AND FISH SCREEN - SECTIONS	

	DRAWING DESCRIPTION	50% SUBMITTAL
SHEET NO.		
	STRUCTURAL	
GS001	STRUCTURAL GENERAL NOTES	Y
GS002	STANDARD STRUCTURAL DETAILS 1	
GS003	STANDARD STRUCTURAL DETAILS 2	
GS004	STANDARD STRUCTURAL DETAILS 3	
S001	STRUCTURAL KEY PLAN	Y
\$301	CONE SCREEN ALCOVE - PLANS	Y
S302	CONE SCREEN ALCOVE - SECTIONS	
S401	HEAD GATE - FOUNDATION PLAN	
S402	HEAD GATE - TOP PLAN	
S403	HEAD GATE - PROFILE	
S404	HEAD GATE - SECTIONS 1	
S405	HEAD GATE - DETAILS 1	
S501	GAGING STATION PLAN (PLACEHOLDER)	
S502	GAGING STATION SECTIONS AND DETAILS (PLACEHOLDER)	
	MECHANICAL	•
GM001	STANDARD MECHANICAL SCHEDULE	
GM002	STANDARD MECHANICAL DETAILS 1	
M301	CONE SCREEN PLAN AND SECTION	
M302	CONE SCREEN DETAILS	
M401	HEAD GATE - PLAN, ELEVATION, AND SECTIONS	
M402	HEAD GATE - DETAILS 1	
	ELECTRICAL	
E001	ELECTRICAL LEGEND AND ABBREVIATIONS	
E101	ELECTRICAL ONE LINE DIAGRAM AND PANEL SCHEDULES	
E102	ELECTRICAL SITE POWER PLAN	
E103	ELECTRICAL EQUIPMENT LAYOUT	

Α	01/19/21	JB	SUBMITTED FOR 50% DESIGN REVIEW
REV	DATE	BY	DESCRIPTION







NEVADA IRRIGATION DISTRICT	DESIGNED K. JENSEN
HEMPHILL DIVERSION PROJECT	DESIGNED
	DRAWN_J. NEVES
	CHECKED V. AUTIER
DRAWING INDEX	PROJECT DATE 01/19/21

DRAWING

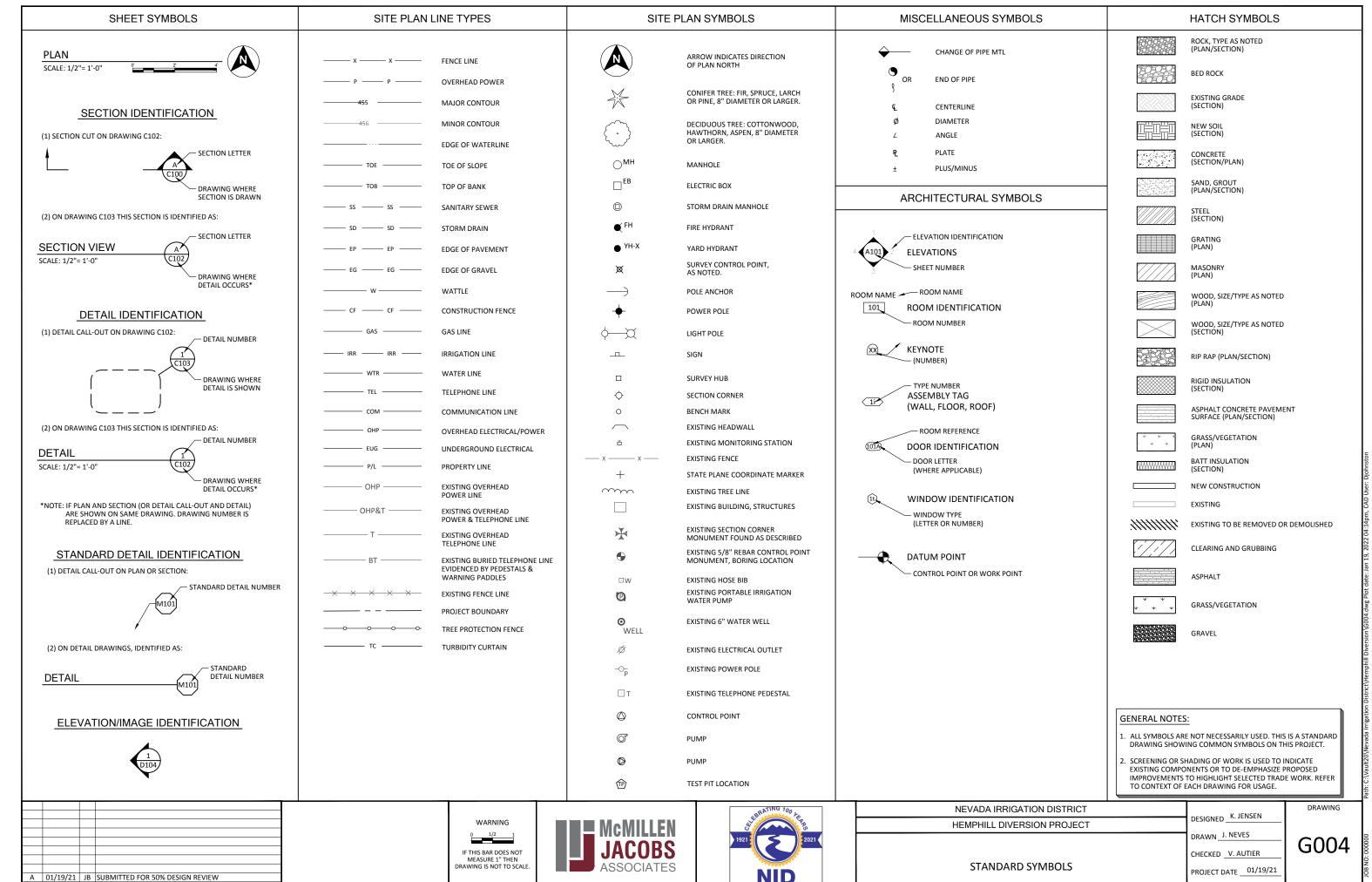
G002

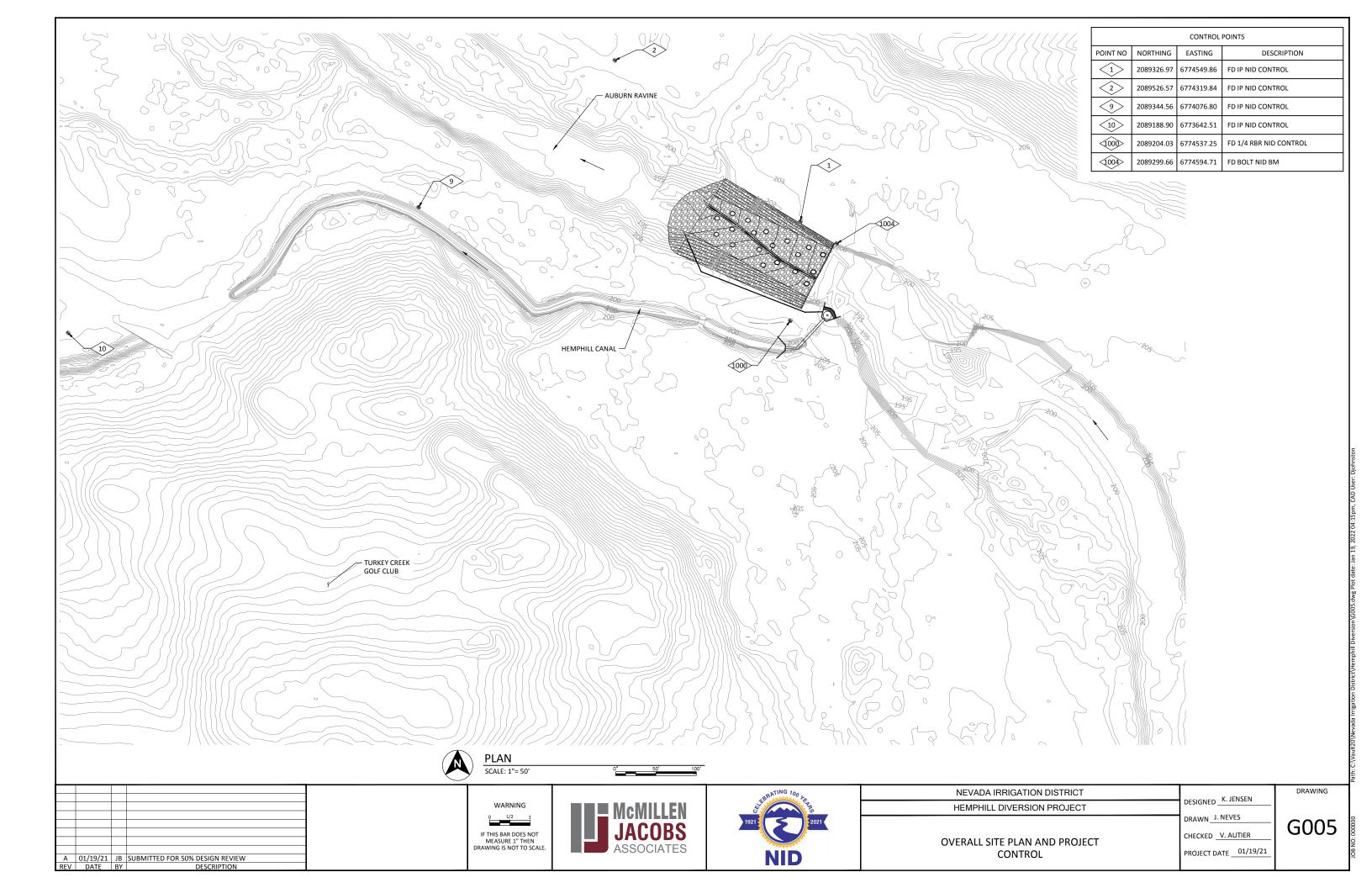
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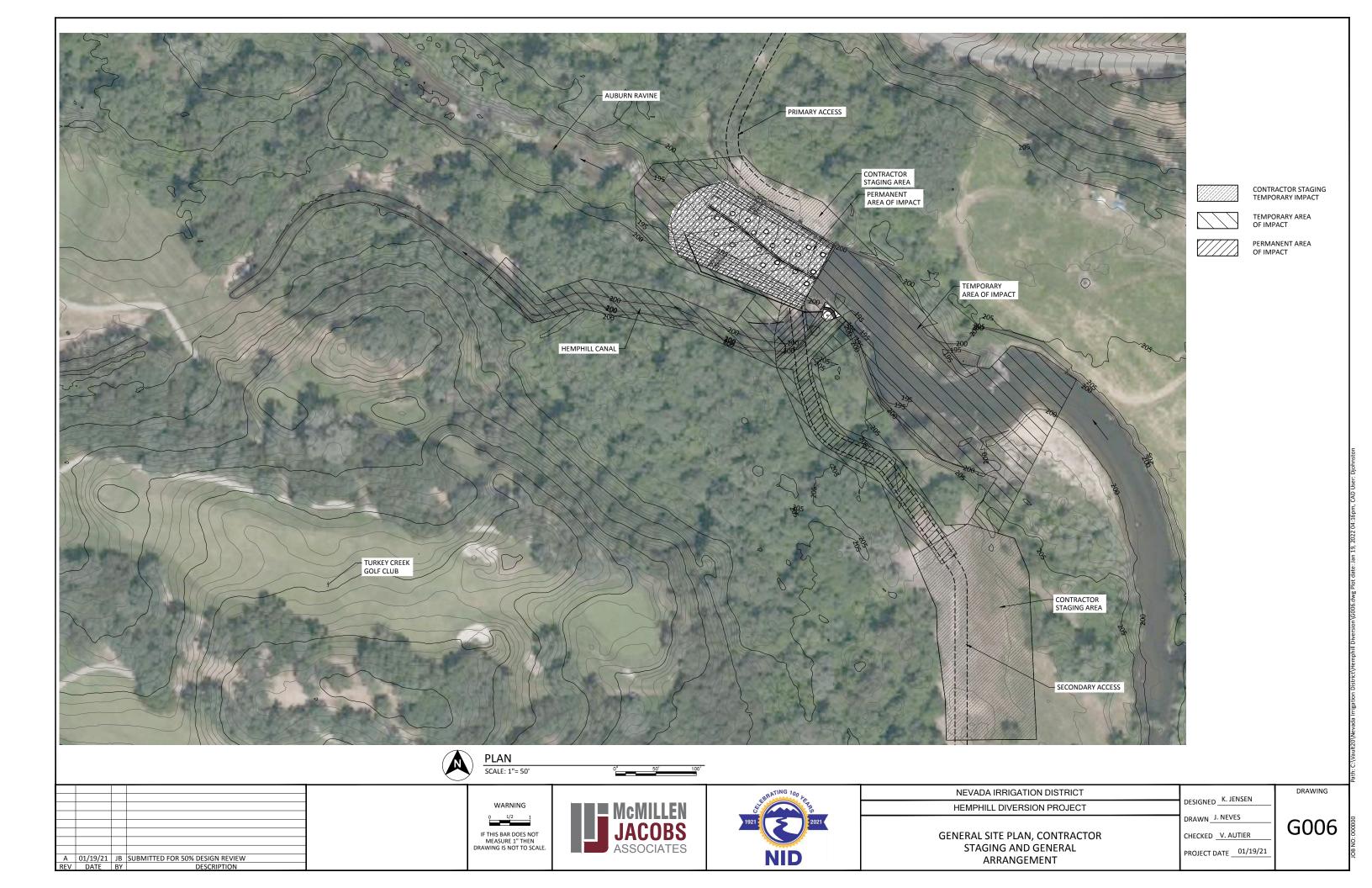
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A/C AIR CONDITIONING				IE	INCIDE EVCE	NE	NEAD FACE NON FLICED	DCC.	DICID CALVANIZED STEEL	V VEN	NT VELOCITY VOLT	
A/E ARCHITECT/ENGINEER	CLR CLEAR CMH COMMUNICATION MANHOLE	F TO F FACE TO FACE FAB FABRICATE		I IH	INSIDE FACE INTAKE HOOD	NF NG	NEAR FACE, NON-FUSED NATURAL GAS	RGS RH	RIGID GALVANIZED STEEL RELIEF HOOD, RIGHT HAND, RELATIVE		NT, VELOCITY, VOLT LT AMPERE	
A ARCHITECT/ENGINEER A ARCHITECTURAL (DWG DISCIPLINE), AMP	CMU CONCRETE MASONRY UNIT	FBO FURNISHED BY OV	VNER	IMP	IMPACT	NIC	NOT IN CONTRACT	''''	HUMIDITY		CUUM	
AB ANCHOR BOLT	CO CLEAN OUT, CONCRETE OPENING	FC FLUSHING CONNE		IN	INCH	NO	NORMALLY OPEN, NUMBER	RL	REQUIRED LAP		RNISH, VARIABLE, VO	T AMPERES
ABC AGGREGATE BASE COURSE	COL COLUMN	FCA FLANGED COUPLIN		INC	INCLUDE, INCANDESCENT	NOM	NOMINAL	RND	ROUND	REACTIVE		
ABAN ABANDON	COM COMMON	FCV FIXED CONE VALV	E	INF	INFLUENT	NPS	NOMINAL PIPE SIZE	RNG	RENEWABLE NATURAL GAS		POR BARRIER, VINYL B	ASE, VALVE BOX
AC ALTERNATING CURRENT	COMB COMBINATION COMM COMMUNICATION	FD FLOOR DRAIN FDC FLEXIBLE DUCT CC	NINECTION	INSTR INSUL	INSTRUMENTATION INSULATION	NPT NS	NATIONAL PIPE THREAD NEAR SIDE	RO ROW	ROUGH OPENING RIGHT-OF-WAY		RTICAL CURVE IYL COMPOSITION TILI	VEDTICAL
ACST ACOUSTIC AD ADDENDUM. AREA DRAIN	COMP COMPOSITION. COMPRESSIBLE. COMPOSITE	FDR FEEDER	DINNECTION	INT	INTERIOR, INTERSECTION	NTS	NOT TO SCALE	RPM	REVOLUTIONS PER MINUTE		NTERLINE	, VERTICAL
ADDL ADDITIONAL	CONC CONCENTRIC, CONCRETE	FE FLANGED END		INTR	INTERMEDIATE, INTERIOR	NWL	NORMAL WATER LEVEL	RR	RAILROAD		OCITY	
ADH ADHESIVE	CONN CONNECTION	FEC FIRE EXTINGUISHE		INV	INVERT			RT	RIGHT		NTILATION	
ADJ ADJUSTABLE, ADJACENT	CONST CONSTRUCTION	FEXT FIRE EXTINGUISHE		IPS	IRON PIPE SIZE	о то с				1	RTICAL	
AF AMP FRAME, AMP FUSE	CONT CONTINUOUS, CONTINUED		RY FINISH, FLAT FACE	IPT	INTERNAL PIPE THREAD	OA	OUTSIDE AIR, OVERALL	S	SOUTH, SINK, STRUCTURAL (DWG DISCIPLINE)		RSES, VAPOR SEAL	
AFF ABOVE FINISH FLOOR	COORD COORDINATE CORR CORROSIVE, CORRUGATED	FG FINISHED GRADE FIG FIGURE		IRR ISO	IRRIGATION ISOMETRIC	OC OCPD	ON CENTER OVER CURRENT PROTECTION DEVICE	SA SAN	SUPPLY AIR		LUME RTICAL POINT OF CURV	/ATLIDE
AFG ABOVE FINISH GRADE AGGR AGGREGATE	CP CHECKER PLATE, CONTROL POINT	FH FIRE HYDRANT		130	BOWLING	OD	OUTSIDE DIAMETER	SC	SANITARY SOLID CORE		RTICAL POINT OF LOR	
AIC AMPS INTERRUPTING CAPACITY	CPLG COUPLING	FIN FINISH		JB	JUNCTION BOX	OH	OVERHEAD	SCH	SCHEDULE	1	RTICAL POINT OF TANK	
ALIG ALIGNMENT	CSK COUNTERSINK	FL FLOW, FLOW LINE		JCT	JUNCTION	OPNG	OPENING	SCHEM	SCHEMATIC	VTR VEN	NT THROUGH ROOF	
ALUM ALUMINUM	CTR CENTER	FLEX FLEXIBLE		JF	JOINT FILLER	OPP	OPPOSITE	SCRN	SCREEN	VWC VIN	IYL WALL COVERING	
ALT ALTERNATE, ALTITUDE	CTRL CONTROL	FLG FLANGE		JT	JOINT	OPT	OPTIONAL	SE	STEEL/ALUMINUM EDGE			
AMB AMBIENT	CU COPPER, CUBIC CW CLOCKWISE	FLOR FLUORESCENT FLR FLOOR		_v	KIP	ORD ORIG	OVERFLOW ROOF DRAIN ORIGINAL	SEC SECT	SECONDARY, SECONDS SECTION	W/ WIT		
ANC ANCHOR AP ACCESS PANEL	CY CUBIC YARD	FLS FLASHING, FLUSH		KB	KNEE BRACE	OVFL	OVERFLOW	SEP	SEPARATE		THOUT ATT, WEST, WIDE, WIN	DOW WIRE WIDE
APRX APPROXIMATE		FND FOUNDATION		KCMIL	THOUSAND CIRCULAR MILS	OVHG	OVERHANG	SF	SQUARE FOOT		NGE BEAM	DOW, WINE, WIDE
APVD APPROVED ARCH ARCHITECTURAL	D PENNY (NAIL MEASURE)	FNC FENCE		KD	KNOCK DOWN	OZ	OUNCE	SH	SHOWER	1	TER CLOSET, WATER	COLUMN
ASSY ASSEMBLY	D DEEP, DIFFUSER	FO FINISHED OPENIN		КО	KNOCK OUT			SHT	SHEET	WD WIE		
AT AMP TRIP	DB DUCT BANK, DECIBEL, DRY BULB	FOB FLAT ON BOTTOM		KSI	KIPS PER SQUARE INCH	P	PAINT, PROCESS (DWG DISCIPLINE)	SHTG	SHEATHING		DE FLANGE, WASH FO	
ATM ATMOSPHERE	DBA DEFORMED BAR ANCHOR DBL DOUBLE	FOC FACE OF CONCRET OPTIC CABLE	ΓΕ, FACE OF CURB, FIBER	L	ANGLE, LENGTH, LAVATORY	PAR	PARALLEL, PARAPET PANIC BAR. PULL BOX	SIM SL	SIMILAR		RE GLASS, WATER GAC	
AUTO AUTOMATIC AUX AUXILIARY	DC DIRECT CURRENT	FOF FACE OF FINISH		LAM	LAMINATE	PBD	PARTICLE BOARD	SLTD	SLOPE SLOTTED		ALL HYDRANT, WEEP H ATER LEVEL	OLE
AUX AUXILIARY AVE AVENUE	DEG DEGREE	FOM FACE OF MASONR	Υ	LATL	LATERAL	PC	POINT OF CURVE, PIECE, PRECAST	SLID	SLEEVE		LDED	
AVG AVERAGE	DEG C DEGREE CENTIGRADE	FOS FACE OF STUDS		LB	LAG BOLT, POUND	PCC	POINT OF COMPOUND CURVATURE	SMLS	SEAMLESS		RE MESH	
AWG AMERICAN WIRE GAGE	DEG F DEGREE FAHRENHEIT	FOT FLAT ON TOP		LDR	LEADER	PCF	POUNDS PER CUBIC FOOT	SOG	SLAB ON GRADE	WP WA	TERPROOF, WORKING	POINT
	DEMO DEMOLITION	FPT FEMALE PIPE THRI	EAD	LF	LINEAR FOOT	PCT	PERCENT	SP	SOUNDPROOF, STANDPIPE		ATHERPROOF	
B/B BACK TO BACK	DEP DEPRESSED	FR FRAME FRP FIBERGLASS REINF	CODCED DI ACTIC	LG LH	LONG LEFT HAND	PE	PLAIN END	SPC	SPACING		TERSTOP, WATER SUF	
BAL BALANCE	DEPT DEPARTMENT DET DETAIL	FS FLOOR SINK, FAR S		LIN	LINEAR	PED PEN	PEDESTAL PENETRATION	SPEC SPLY	SPECIFICATION SUPPLY		TER SURFACE ELEVAT	IUN
BBD BULLETIN BOARD BC BASE CABINET, BOTTOM CHORD, BOLT	DI DROP INLET, DUCTILE IRON	FT FEET, FOOT		LIQ	LIQUID	PERF	PERFORATED	SPLY	SET POINT		LDED WIRE FABRIC	
CENTER, BOLT CIRCLE	DIA DIAMETER	FTG FOOTING, FITTING	FUR FURRED, FURRING	LL	LIVE LOAD	PERM	PERMANENT	SQ	SQUARE	****	LDC I /ADMIC	
BD BOARD	DIAG DIAGONAL, DIAGRAM	FURN FURNITURE, FURN	IISH	LLH	LONG LEG HORIZONTAL	PERP	PERPENDICULAR	SR	SHORT RADIUS		RA STRONG	
BE BOTH ENDS, BELL END	DIFF DIFFERENTIAL, DIFFERENCE	FUT FUTURE		LLV	LONG LEG VERTICAL	PF	POWER FACTOR	SS	SERVICE SINK		UBLE EXTRA STRONG	
BF BOTH FACES, BOTTOM FACE, BLIND FLANGE,	DIM DIMENSION	FV FACE VELOCITY FW FIELD WELD, FIRE	\A/AII	LMLU	LIQUID MARKER LECTURE UNIT LONGITUDINAL	PH PI	PHASE	SST	STAINLESS STEEL	XSECT CRC	OSS SECTION	
BOARD FEET	DISCH DISCHARGE DIST DISTANCE, DISTRIBUTION	FWD FORWARD	WALL	LOC	LOCATION	PKG	POINT OF INTERSECTION PACKAGE	ST STA	STREET STATION	YH YAR	RD HYDRANT	
BFV BUTTERFLY VALVE BITUM BITUMINOUS	DIV DIVISION	FWE FURNISHED WITH	EQUIPMENT	LP	LOW POINT	PL	PLATE. PROPERTY LINE	STD	STANDARD		LD STRENGTH	
BKG BACKING	DL DEAD LOAD	FXTR FIXTURE		LPS	LOW PRESSURE SODIUM	PLBG	PLUMBING	STIF	STIFFENER		20 01112110111	
BL BASE LINE	DN DOWN			LR	LONG RADIUS	PLF	POUNDS PER LINEAR FOOT	STIR	STIRRUP			
BLDG BUILDING	DP DEPTH		GENERAL (DWG DISCIPLINE)	LT	LEFT	PNEU	PNEUMATIC	STL	STEEL			
BLK BLOCK	DS DOWN SPOUT DT DOUBLE TEE, DRIP TRAP ASSEMBLY	GA GAGE (METAL THI GAL GALLON	CKNESS)	LTD LTG	LIMITED LIGHTING	POL	POLISH POSITIVE, POSITION	STOR	STORAGE STRUCTURAL STRAIGHT			
BLKG BLOCKING BM BENCHMARK. BEAM	DUP DUPLICATE	GAL GALLON GALV GALVANIZED		LTL	LINTEL	PP	POLYPROPYLENE. POWER POLE	STR SUB	STRUCTURAL, STRAIGHT SUBSTITUTE			
BOC BACK OF CURB	DWG DRAWING	GB GRADE BREAK		LTNG	LIGHTNING	PRC	POINT OF REVERSE CURVATURE	SUC	SUCTION			
BOD BOTTOM OF DUCT	DWL DOWEL	GD GUARD		LV	LOW VOLTAGE	PREF	PREFINISHED	SUSP	SUSPENDED			
BOG BOTTOM OF GRILLE		GEN GENERAL		LVR	LOUVER	PREFA	B PREFABRICATED	SY	SQUARE YARD			
BOL BOTTOM OF LOUVER	E EAST, ELECTRICAL (DWG DISCIPLINE)		IRCUIT INTERRUPTER	LW	LIGHTWEIGHT	PRELIN		SYM	SYMBOL			
BOP BOTTOM OF PIPE	EA EACH, EXHAUST AIR	GL GLASS		LWC	LIGHTWEIGHT CONCRETE	PREP	PREPARE	SYMM	SYMMETRICAL			
BOR BOTTOM OF REGISTER	EC ELECTRICAL CONTRACTOR ECC ECCENTRIC	GP GUY POLE GR GRADE		LWL	LOW WATER LEVEL	PRES PROP	PRESSURE	SYN	SYNTHETIC			
BOT BOTTOM	ECC ECCENTRIC			l _M	MECHANICAL (DWG DISCIPLINE)	PROT	PROPERTY PROTECTION	SYS	SYSTEM			
DOLL DOTTOM OF UNIT		GRND GROUND		1			POUNDS PER SQUARE FOOT		TOP AND BOTTOM			
BOU BOTTOM OF UNIT	EDB ELECTRICAL DUCT BANK	GRND GROUND		I MA	MIXED AIR	I PSE		T & B				
BP BASE PLATE		GRND GROUND GRTG GRATING GT GREASE TRAP			MIXED AIR MAINTENANCE	PSF PSI	POUNDS PER SQUARE INCH	T&B T&G	TONGUE AND GROOVE			
	EDB ELECTRICAL DUCT BANK EE EACH END	GRTG GRATING	PARD	MAINT MAN	MAINTENANCE MANUAL			T&B T&G T	TONGUE AND GROOVE TILE, TREAD			
BP BASE PLATE BRG BEARING	EDB ELECTRICAL DUCT BANK EE EACH END EF EACH FACE EG EXISTING GRADE EGL ENERGY GRADE LINE	GRTG GRATING GT GREASE TRAP		MAINT MAN MAOP	MAINTENANCE MANUAL MAXIMUM ALLOWABLE OPERATING PRESSURE		POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABSOLUTE POUNDS PER SQUARE INCH GAGE	T&G T TA	TILE, TREAD TEMPERED AIR			
BP BASE PLATE BRG BEARING BRGP BEARING PLATE BRKT BRACKET BS BOTH SIDES	EDB ELECTRICAL DUCT BANK EE EACH END EF EACH FACE EG EXISTING GRADE EGL ENERGY GRADE LINE EFF EFFLUENT, EFFICIENCY	GRTG GRATING GT GREASE TRAP GWB GYPSUM WALLBO GYP GYPSUM HARDBO		MAINT MAN MAOP MATL	MAINTENANCE MANUAL MAXIMUM ALLOWABLE OPERATING PRESSURE MATERIAL	PSI PSIA PSIG PT	POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABSOLUTE POUNDS PER SQUARE INCH GAGE POINT, POINT OF TANGENCY	T&G T TA TAN	TILE, TREAD TEMPERED AIR TANGENT			
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BP BASE PLATE BRG BEARING BRGP BEARING PLATE BRKT BRACKET BS BOTH SIDES BTU BRITISH THERMAL UNIT BTW BETWEEN BTWLD BUTT WELD	EDB ELECTRICAL DUCT BANK EE EACH END EF EACH FACE EG EXISTING GRADE EGL ENERGY GRADE LINE EFF EFFLUENT, EFFICIENCY EHH ELECTRICAL HANDHOLE EIFS EXTERIOR INSULATION & FINISH SYSTEM	GRTG GRATING GT GREASE TRAP GWB GYPSUM WALLBO GYP GYPSUM HARDBO H HIGH HB HOSE BIB HBD HARDBOARD		MAINT MAN MAOP MATL MAX MB MBR MCJ	MAINTENANCE MANUAL MAXIMUM ALLOWABLE OPERATING PRESSURE MATERIAL MAXIMUM MACHINE BOLT MEMBER MASONRY CONTROL JOINT	PSI PSIA PSIG PT PTN PVC	POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABSOLUTE POUNDS PER SQUARE INCH GAGE POINT, POINT OF TANGENCY PARTITION POLYVINYL CHLORIDE	T&G T TA TAN TBM	TILE, TREAD TEMPERED AIR TANGENT TEMPORARY BENCHMARK			
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BP BASE PLATE BRG BEARING BRGP BEARING PLATE BRKT BRACKET BS BOTH SIDES BTU BRITISH THERMAL UNIT BTW BETWEEN BTWLD BUTT WELD BV BALL VALVE BW BOTH WAYS BYP BYPASS	EDB ELECTRICAL DUCT BANK EE EACH END EF EACH FACE EG EXISTING GRADE EGL ENERGY GRADE LINE EFF EFFLUENT, EFFICIENCY EHH ELECTRICAL HANDHOLE EIFS EXTERIOR INSULATION & FINISH SYSTEM EJ EXPANSION JOINT EL ELBOW, ELEVATION ELEC ELECTRICAL EMBD EMBEDDED EMER EMERGENCY	GRTG GRATING GT GREASE TRAP GWB GYPSUM WALLBO GYP GYPSUM HARDBO H HIGH HB HOSE BIB HBD HARDBOARD HC HANDICAPPED, HC CURVE HC HORIZONTAL CEN' HDR HEADER	OLLOW CORE, HORIZONTAL	MAINT MAN MAOP MATL MAX MB MBR MCJ MECH MED MFR	MAINTENANCE MANUAL MAXIMUM ALLOWABLE OPERATING PRESSURE MATERIAL MAXIMUM MACHINE BOLT MEMBER MASONRY CONTROL JOINT MECHANICAL MEDIUM MANUFACTURER	PSI PSIA PSIG PT PTN PVC PVMT PWD PZ	POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABSOLUTE POUNDS PER SQUARE INCH GAGE POINT, POINT OF TANGENCY PARTITION POLYVINYL CHLORIDE PAVEMENT PLYWOOD PIEZOMETER RATE OF FLOW	T&G T TA TAN TBM TEMP THK THRD THRU TOB TOC	TILE, TREAD TEMPERED AIR TANGENT TEMPORARY BENCHMARK TEMPORARY, TEMPERATURE THICK THREAD THROUGH TOP OF BOLT, TOP OF BANK, TOP OF BEAM TOP OF CURB, TOP OF CONCRETE	1. THESE SET OF	E ABBREVIATIONS APP F CONTRACT DRAWIN	GS.
BP BASE PLATE BRG BEARING BRGP BEARING PLATE BRKT BRACKET BS BOTH SIDES BTU BRITISH THERMAL UNIT BTWLD BUTT WELD BV BALL VALVE BW BOTH WAYS BYP BYPASS C TO C CENTER TO CENTER	EDB ELECTRICAL DUCT BANK EE EACH END EF EACH FACE EG EXISTING GRADE EGL ENERGY GRADE LINE EFF EFFLUENT, EFFICIENCY EHH ELECTRICAL HANDHOLE EIFS EXTERIOR INSULATION & FINISH SYSTEM EJ EXPANSION JOINT EL ELBOW, ELEVATION ELEC ELECTRICAL EMBD EMBEDDED EMER EMERGENCY EMH ELECTRICAL MANHOLE	GRTG GRATING GT GREASE TRAP GWB GYPSUM WALLBO GYP GYPSUM HARDBO H HIGH HB HOSE BIB HBD HARDBOARD HC HANDICAPPED, HC CURVE HC HORIZONTAL CEN' HDR HEADER HDW HARDWARE	OLLOW CORE, HORIZONTAL	MAINT MAN MAOP MATL MAX MB MBR MCJ MECH MED	MAINTENANCE MANUAL MAXIMUM ALLOWABLE OPERATING PRESSURE MATERIAL MAXIMUM MACHINE BOLT MEMBER MASONRY CONTROL JOINT MECHANICAL MEDIUM	PSI PSIA PSIG PT PTN PVC PVMT PWD PZ Q QTR	POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABSOLUTE POUNDS PER SQUARE INCH GAGE POINT, POINT OF TANGENCY PARTITION POLYVINYL CHLORIDE PAVEMENT PLYWOOD PIEZOMETER RATE OF FLOW QUARTER	T&G T TA TAN TBM TEMP THK THRD THRU TOB TOC TOD	TILE, TREAD TEMPERED AIR TANGENT TEMPORARY BENCHMARK TEMPORARY, TEMPERATURE THICK THREAD THROUGH TOP OF BOLT, TOP OF BANK, TOP OF BEAM TOP OF CURB, TOP OF CONCRETE TOP OF DUCT	1. THESE SET OF	ABBREVIATIONS APP	GS. DOES NOT IMPLY
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A 01/19/21 JB SUBMITTED FOR 50% DESIGN REVIEW
REV DATE BY DESCRIPTION



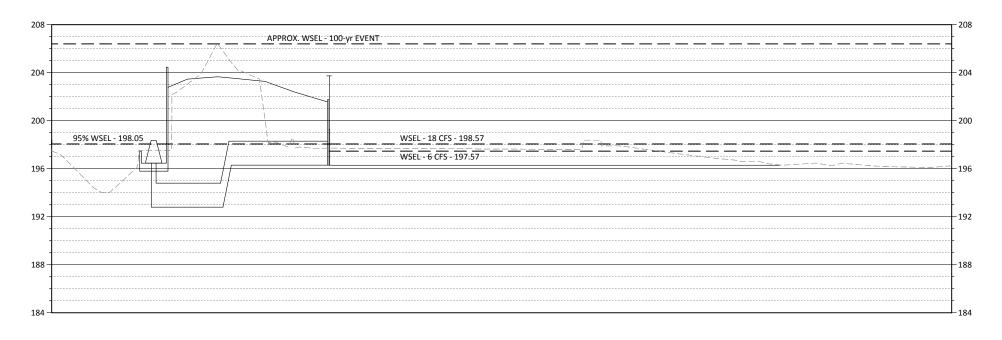




	A	AUBURN RAVINE FLOWS	
CRITERIA	DISCHARGE (CFS)	RETURN PERIOD (YR)	COMMENTS
5%	172	20	LOW FLOW FOR FISH PASSAGE
95%	13	1	HIGH FLOW FOR FISH PASSAGE
100-YR	15643	100	100-YR FLOW FROM FEMA FIS

	ROUGHE	NED CHANNEL DESIG	GN CRITERIA
CRITERIA	UNIT	VALUE	COMMENTS
SLOPE	%	4	4% SLOPE PER CDFW
LENGTH	FT	164	LENGTH EXCEEDS NMFS CRITERIA OF 150. HOWEVER WITH PRESENCE OF REFUGE ROCKS, THIS IS
MIN DEPTH OF FLOW	FT	1	AT LOW FLOW
TRANSPORT VELOCITY	FPS	1.5 - 4	NMFS CRITERIA

HYDRAULIC PROFILE - AUBURN RAVINE SCALE: NTS



	AUBURN RA	AVINE FLOWS
CRITERIA	DISCHARGE (CFS)	COMMENTS
LOW FLOW	3	NORMAL LOW FLOW
NORMAL FLOW	6	CURRENT AVERAGE FLOW
MAX FLOW	18	MAX FLOW PER WATER MASTER PLAN

	FISH SCREE	N CRITERIA
CRITERIA	UNIT	VALUE
MAX APPROACH	FPS	0.33

HYDRAULIC PROFILE - HEMPHILL CANAL	
SCALE: NTS	

Α	01/19/21	JB	SUBMITTED FOR 50% DESIGN REVIEW
REV	DATE	BY	DESCRIPTION







NEVADA IRRIGATION DISTRICT	DESIGNED K. JENSEN	
HEMPHILL DIVERSION PROJECT	DESIGNED	
	DRAWN J. NEVES	
HYDRAULIC PROFILE AND DESIGN	CHECKED V. AUTIER	
CRITERIA	PROJECT DATE 01/19/21	

DRAWING

G007

TYPICAL PIPE DESIGNATION: - MATERIAL GROUP NUMBER (SEE NOTE 12) PIPE DIAMETER - FLUID ABBREVIATION

NOTES:

NOTE 1
ALTHOUGH SEVERAL PIPE MATERIAL GROUPS MAY BE LISTED ON THIS SHEET FOR A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE ONLY THE PIPE MATERIAL GROUP SHOWN ON THE DRAWINGS AND SPECIFIED FOR THAT FLUID SERVICE.

- LEAKAGE ALLOWANCE IS AS FOLLOWS

 A. PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE. PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE FOR UNBURIED PIPE AND NOT MORE THAN 0.02 GALLON PER HOUR
- PER INCH DIAMETER PER 100 FEET OF BURIED PIPE.
 PIPES SO DESIGNATED SHALL NOT SHOW A LEAKAGE OF MORE THAN 0.15 GALLON PER HOUR PER INCH OF DIAMETER PER 100
- PIPES SO DESIGNATED SHALL NOT SHOW A LOSS OF PRESSURE OF MORE THAN 5 PERCENT.
- PIPE SO DESIGNATED SHALL NOT SHOW A LOSS OF VACUUM OF MORE THAN 4 INCHES MERCURY COLUMN.

NOTE 3
FOR FIELD TEST PROCEDURES AND ADDITIONAL TEST REQUIREMENTS, SEE PIPING SECTION OF SPECIFICATIONS.

NO SUBSTITUTIONS U.N.O. IN THE SPECIFICATIONS.

PIPING GROUP FUNCTION SHOWN THUS * SHALL BE INSULATED PER SPECIFICATIONS.

NOTE 6 STATIC WATER TEST WITH SURFACE 5 FEET ABOVE HIGH POINT OF

INSPECTION AND TESTING SHALL BE IN ACCORDANCE WITH APPLICABLE PLUMBING CODE.

NOTE 8 NO APPARENT LEAKS UNDER NORMAL OPERATING CONDITIONS.

INSPECTION AND TESTING SHALL BE IN ACCORDANCE WITH APPLICABLE NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS.

PIPING MATERIALS SHALL BE IN ACCORDANCE WITH NATIONAL FIRE

PROTECTION ASSOCIATION STANDARDS. NOTE 11 FOR VALVES 4" AND LARGER SEE VALVE SCHEDULE FOR SPECIAL

VALVES SEE SPECIFICATIONS.

NOTE 12 CHANGE IN PIPING MATERIAL GROUP NUMBER IS INDICATED THUS: ——→

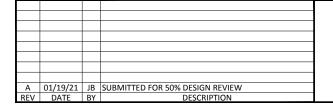
FOR FULL PIPE LINING AND COATING REQUIREMENTS, SEE

EXPOSED OUTDOOR PIPING SHALL BE PAINTED IN ACCORDANCE WITH SPECIFICATIONS, COLORS TO BE SELECTED BY OWNER.

NATURAL GAS BURIED PIPE SHALL BE POLYETHYLENE BASED PIPE IN ACCORDANCE W/ LOCAL GAS UTILITY PIPE REQUIREMENTS FOR PRESSURE GAS SERVICE.

ALL FISH RELEASE PIPE BENDS SHALL HAVE A MINIMUM RADIUS OF 5 TIMES THE PIPE DIAMETER. FITTINGS FOR FISH RELEASE PIPE SHALL BE OF THE SAME MATERIAL AS THE PIPING. ALL FISH RELEASE PIPING SHALL BE FREE OF BURRS AND ROUGH SURFACES. ALL PIPING JOINTS SHALL BE SMOOTH AND FREE OF SURFACE BLEMISHES.

FOR HDPE PIPING THE SIZE OF PIPE SHOWN ON DRAWING CALL-OUTS SHALL BE THE MINIMUM INSIDE DIAMETER. PIPE WALL THICKNESS SHALL BE PER DR RATING REQUIREMENT.







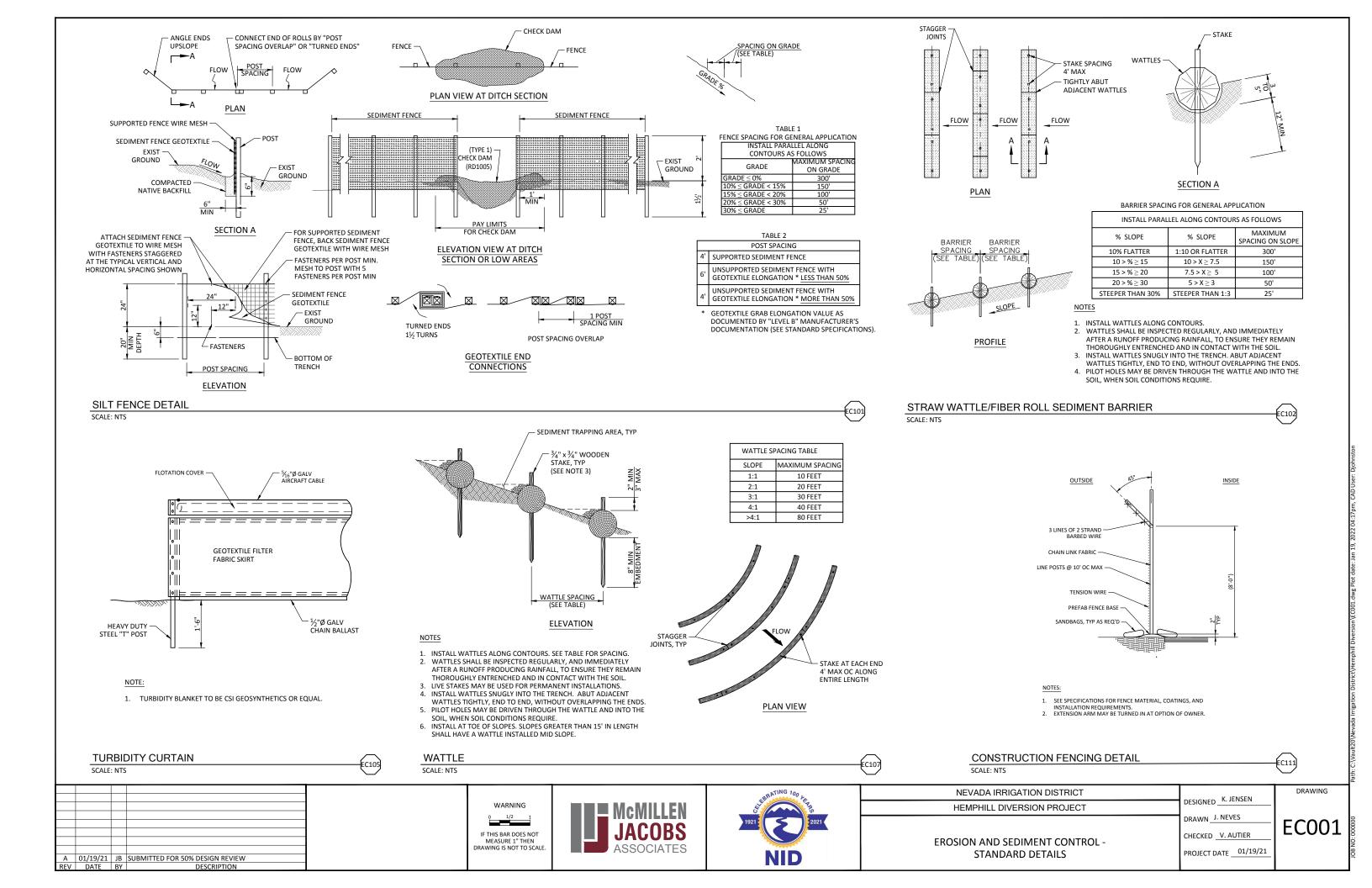


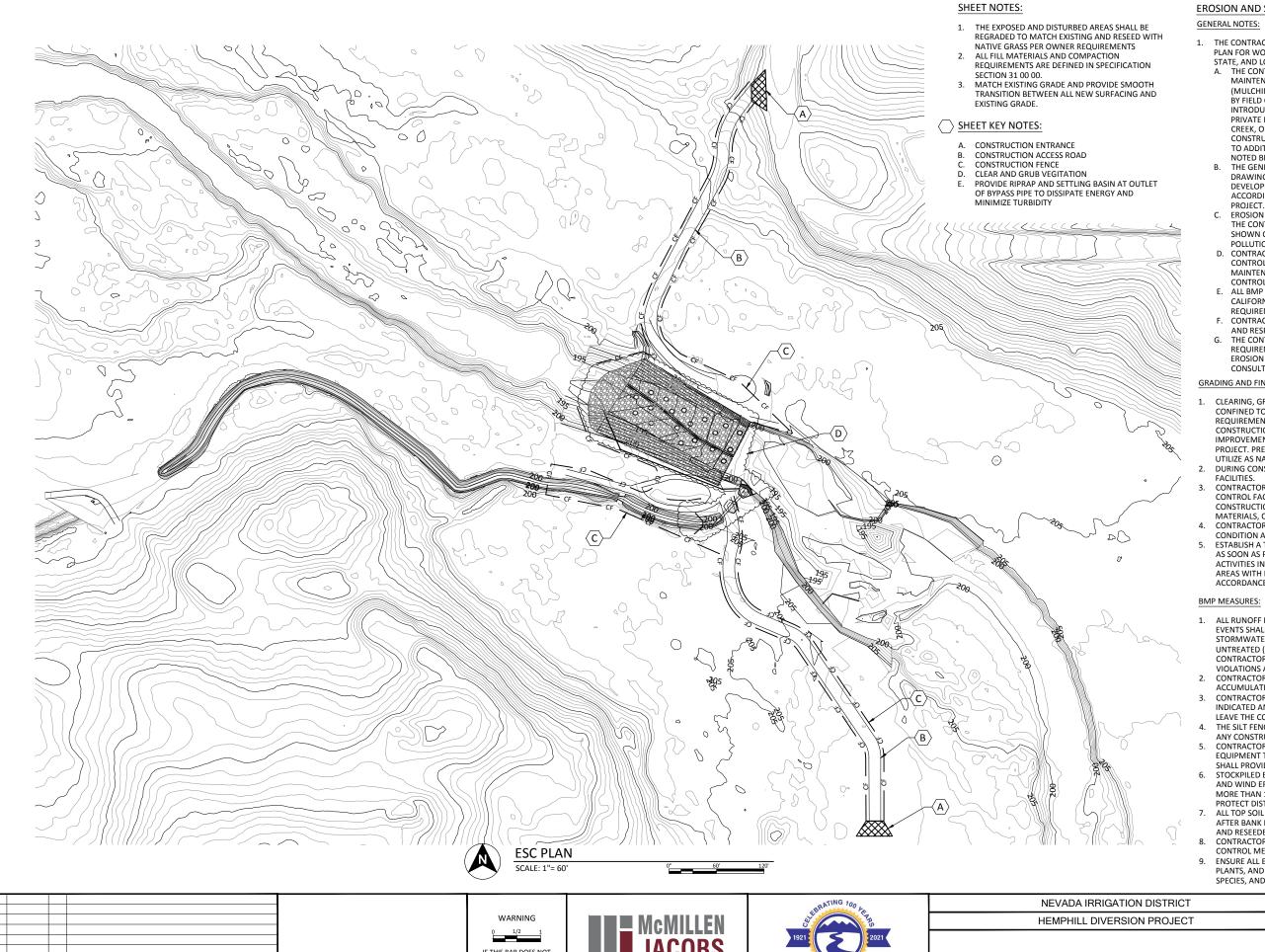
HEMPHILL DIVERSION PROJECT
PIPING SCHEDULE

NEVADA IRRIGATION DISTRICT

DESIGNED K. JENSEN DRAWN J. NEVES CHECKED V. AUTIER PROJECT DATE __01/19/21

G008





EROSION AND SEDIMENT CONTROL NOTES:

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

 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
 - 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.
 - ALL BMP REQUIRED MATERIALS SHALL MEET OR EXCEED STATE OF CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA) REQUIREMENTS.
 - CONTRACTOR SHALL DEVELOP A SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLAN THAT WILL BE ATTACHED TO THE SWPPP
- THE CONTRACTOR'S ECP SHALL MEET OR EXCEED THE REQUIREMENTS OUTLINED IN SPECIFICAITON SECTION 31 25 00 EROSION SEDIMENTATION CONTROLS PREPARED BY KIGHT PIESOLD

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.
- 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.









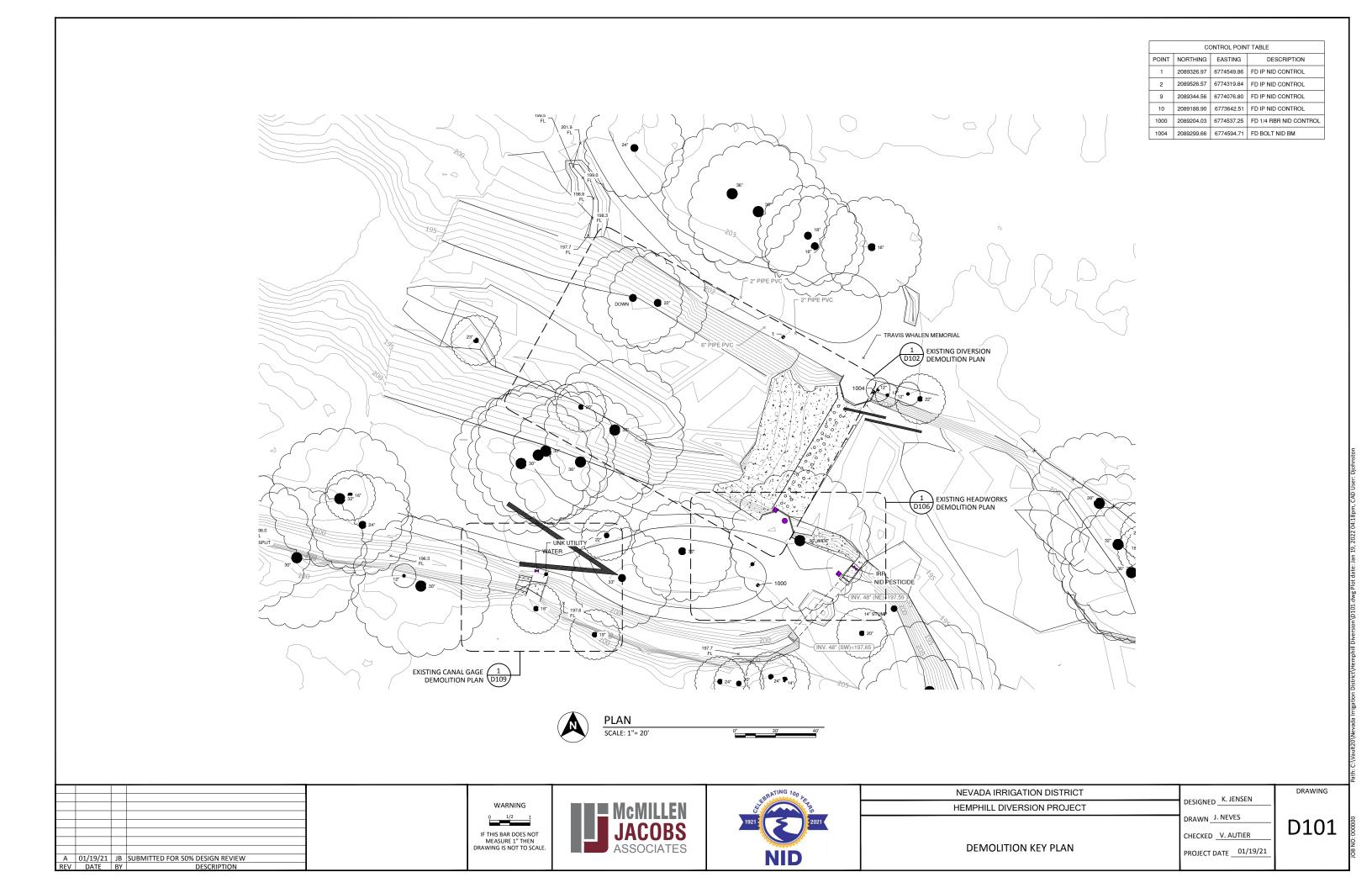
EROSION AND SEDIMENT CONTROL PLAN

DESIGNED K. JENSEN DRAWN_J. NEVES

CHECKED V. AUTIER

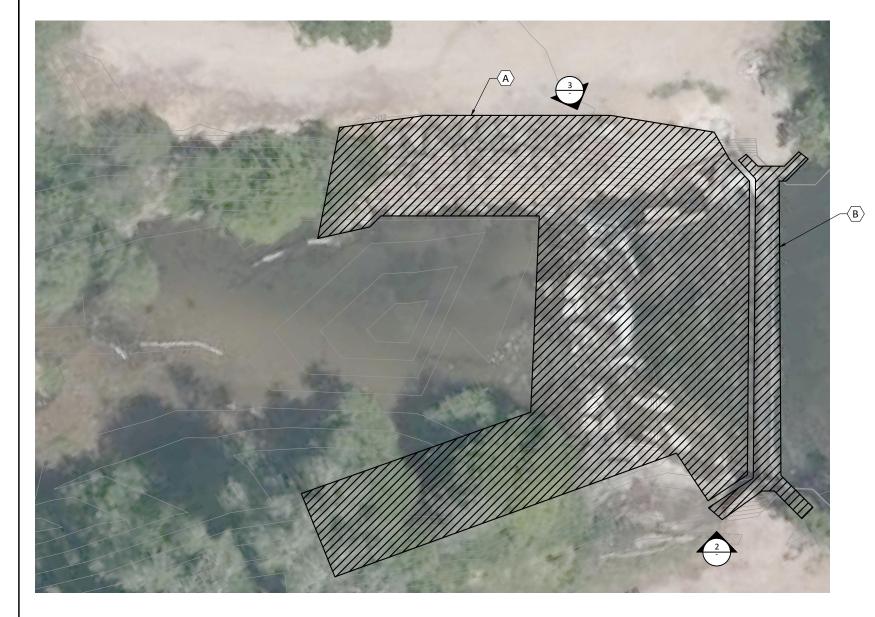
PROJECT DATE __01/19/21

EC101

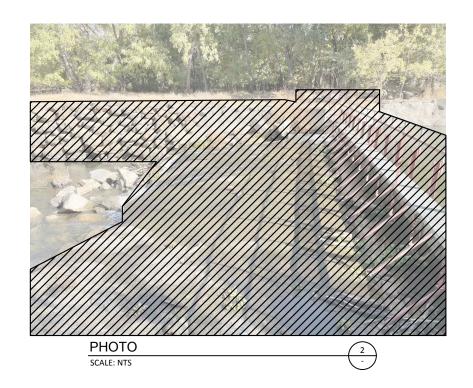


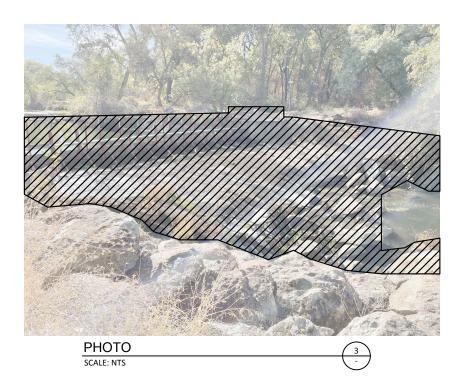
SHEET KEY NOTES:

- A REMOVE EXISTING GROUTED AND NON-GROUTED RIPRAP.
- B REMOVE EXISTING DIVERSION STRUCTURE.









Α	01/19/21	JB	SUBMITTED FOR 50% DESIGN REVIEW
REV	DATE	BY	DESCRIPTION







NEVADA IRRIGATION DISTRICT
HEMPHILL DIVERSION PROJECT

DESIGNED K. JENSEN DRAWN J. NEVES CHECKED V. AUTIER

PROJECT DATE 01/19/21

D102

EXISTING DIVERSION DEMOLITION PLAN AND PHOTOS

A REMOVE EXISTING HEADGATE STRUCTURE AND PIPE CANAL.







PHOTO SCALE: NTS

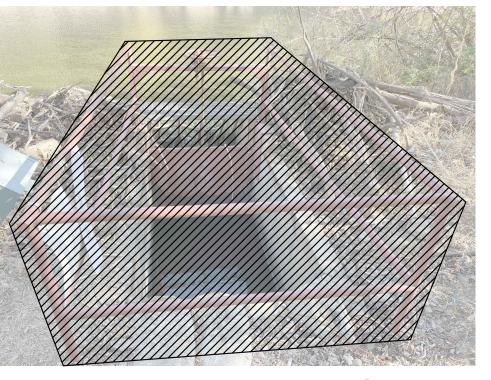


PHOTO SCALE: NTS

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NEVADA IRRIGATION DISTRICT	
HEMPHILL DIVERSION PROJECT	

DESIGNED K. JENSEN DRAWN J. NEVES CHECKED V. AUTIER PROJECT DATE 01/19/21

D103

EXISTING HEADWORKS DEMOLITION PLAN AND PHOTOS

A REMOVE EXISTING FLOW MEASUREMENT FLUME.







PHOTO 2
SCALE: NTS

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NEVADA IRRIGATION DISTRICT	DESIGNED K. JENSEN
HEMPHILL DIVERSION PROJECT	DESIGNED
	DRAWN J. NEVES
EXISTING CANAL GAGE DEMOLITION PLAN	CHECKED V. AUTIER
AND PHOTOS	PROJECT DATE01/19/21_

D101

DRAWING

D104

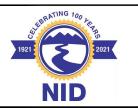
CIVIL GENERAL NOTES:

- 1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE ALL EXIST UTILITIES IN AND AROUND THE AREAS OF NEW CONSTRUCTION. THE CONTRACTOR SHALL POTHOLE FOR EXIST UTILITIES PRIOR TO SUBMITTAL OF SHOP DRAWINGS, FOR POINTS OF CONNECTIONS.
- 2. THE CONTRACTOR SHALL PROTECT ALL EXIST UTILITIES TO REMAIN.
- 3. LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM AVAILABLE RECORDS. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES NOT SHOWN OR NOT IN THE LOCATION SHOWN. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS AND ELEVATIONS AND SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT UTILITY LINES WHETHER SHOWN OR NOT SHOWN.
- 4. THE CONTRACTOR SHALL CONTACT THE UTILITY AGENCIES FOR FIELD LOCATION OF UTILITIES, AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION
- 5. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXIST IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE FROM DAMAGE. ALL IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COMPENSATION.
- 6. ALL TRENCHING AND BACKFILL SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 7. PRIOR TO ANY CONNECTION TO AN EXIST UTILITY, THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY AGENCIES.
- 8. A DIG ALERT IDENTIFICATION NUMBER MUST BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID. FOR THE DIG ALERT ID NUMBER. CONTRACTOR SHALL CALL THE LOCAL UTILITY AT LEAST 48 HOURS BEFORE ANY EXCAVATION IN THE VICINITY OF ANY EXIST UNDERGROUND FACILITIES PER
- 9. CONTRACTOR SHALL RESTORE ALL SURVEY MONUMENTS THAT ARE DAMAGED OR DESTROYED
- 10. EXIST SURFACE FEATURES SHOWN ON ALL SHEETS HEREIN ARE BASED ON AERIAL AND FIELD SURVEYS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL EXIST SURFACE FEATURES WHETHER SHOWN OR NOT ON CIVIL SHEETS.
- 11. ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL PERMITS OBTAINED FOR THE PROJECT.
- 12. ALL CONTRACTORS WORKING WITHIN THE PROJECT BOUNDARIES ARE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE SAFETY LAWS.
- 13. CONTRACTOR SHALL FURNISH PROOF THAT ALL MATERIALS INSTALLED ON THIS PROJECT MEET THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS.
- 14. ONLY PLAN SETS STAMPED "ISSUED FOR CONSTRUCTION" SHALL BE USED BY THE PROJECT
- 15. THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES A COPY OF THE APPROVED CONSTRUCTION PLANS AND RECORD THE ACTUAL LOCATIONS OF THE CONSTRUCTED WORK AND ANY UTILITIES ENCOUNTERED. THE CONTRACTOR SHALL PROVIDE THESE LOCATIONS TO BE SUBMITTED BY THE CONTRACTOR AS PER THE CONTRACT SPECIFICATIONS IN THE PRODUCTION OF RECORD
- 16. UNLESS NOTED OTHERWISE, THE CONTRACTOR(S) SHALL REMOVE ALL OBSTRUCTIONS, BOTH ABOVE AND BELOW GROUND, AS REQUIRED FOR CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THIS SHALL INCLUDE CLEARING AND GRUBBING WHICH CONSISTS OF CLEARING THE GROUND SURFACE OF ALL TREES, STUMPS, BRUSH, UNDERGROWTH, HEDGES, HEAVY GROWTH OF GRASS OR WEEDS, FENCES, STRUCTURES, DEBRIS, RUBBISH, AND SUCH MATERIAL WHICH, IN THE OPINION OF CONTRACTING OFFICER, IS UNSUITABLE FOR THE FOUNDATION OF CONSTRUCTED WORKS. ALL MATERIAL NOT SUITABLE FOR FUTURE USE ON SITE SHALL BE DISPOSED OF AT A COMMERCIAL DISPOSAL FACILITY.

Α	01/19/21	JB	SUBMITTED FOR 50% DESIGN REVIEW
REV	DATE	BY	DESCRIPTION



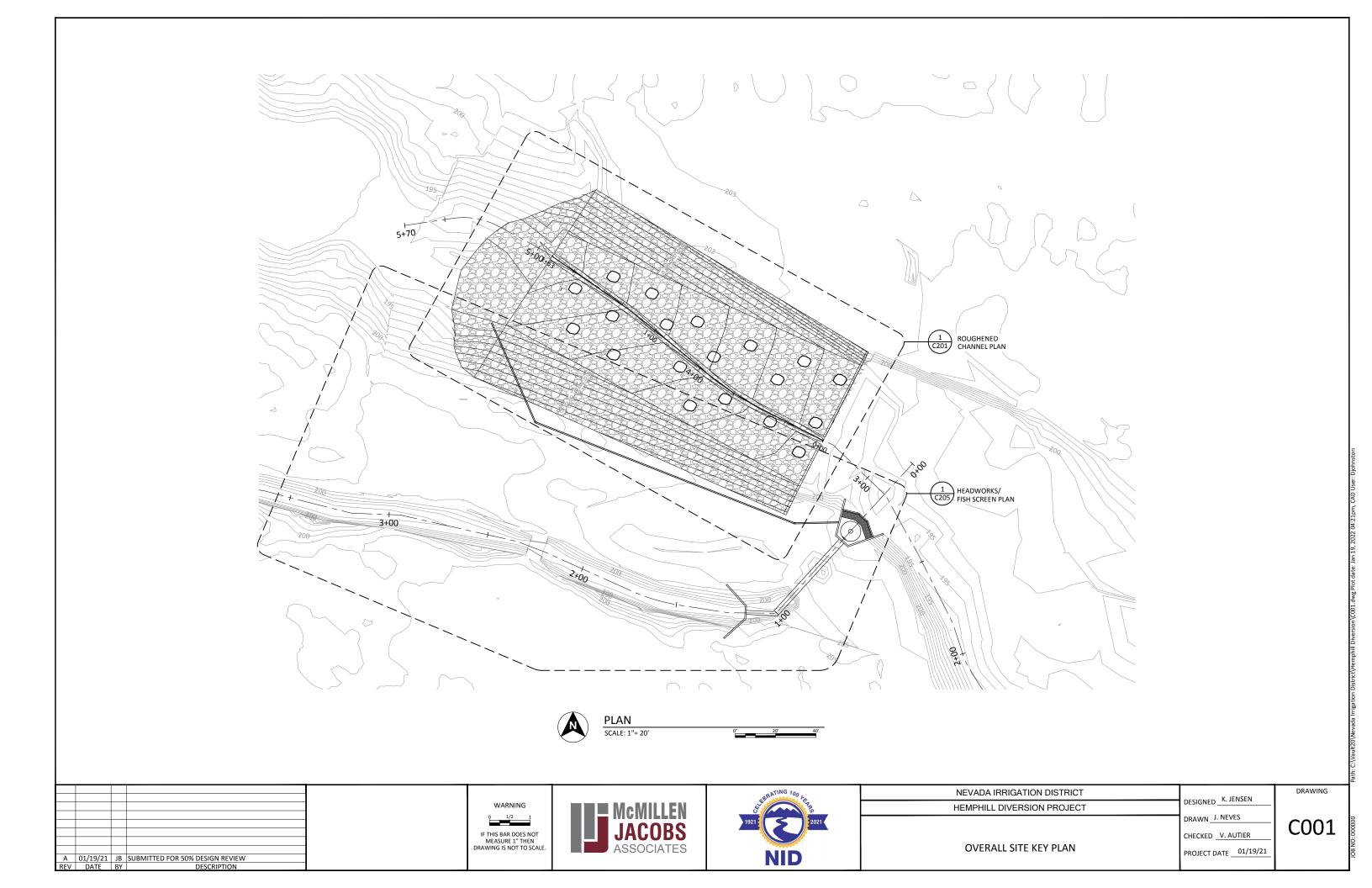


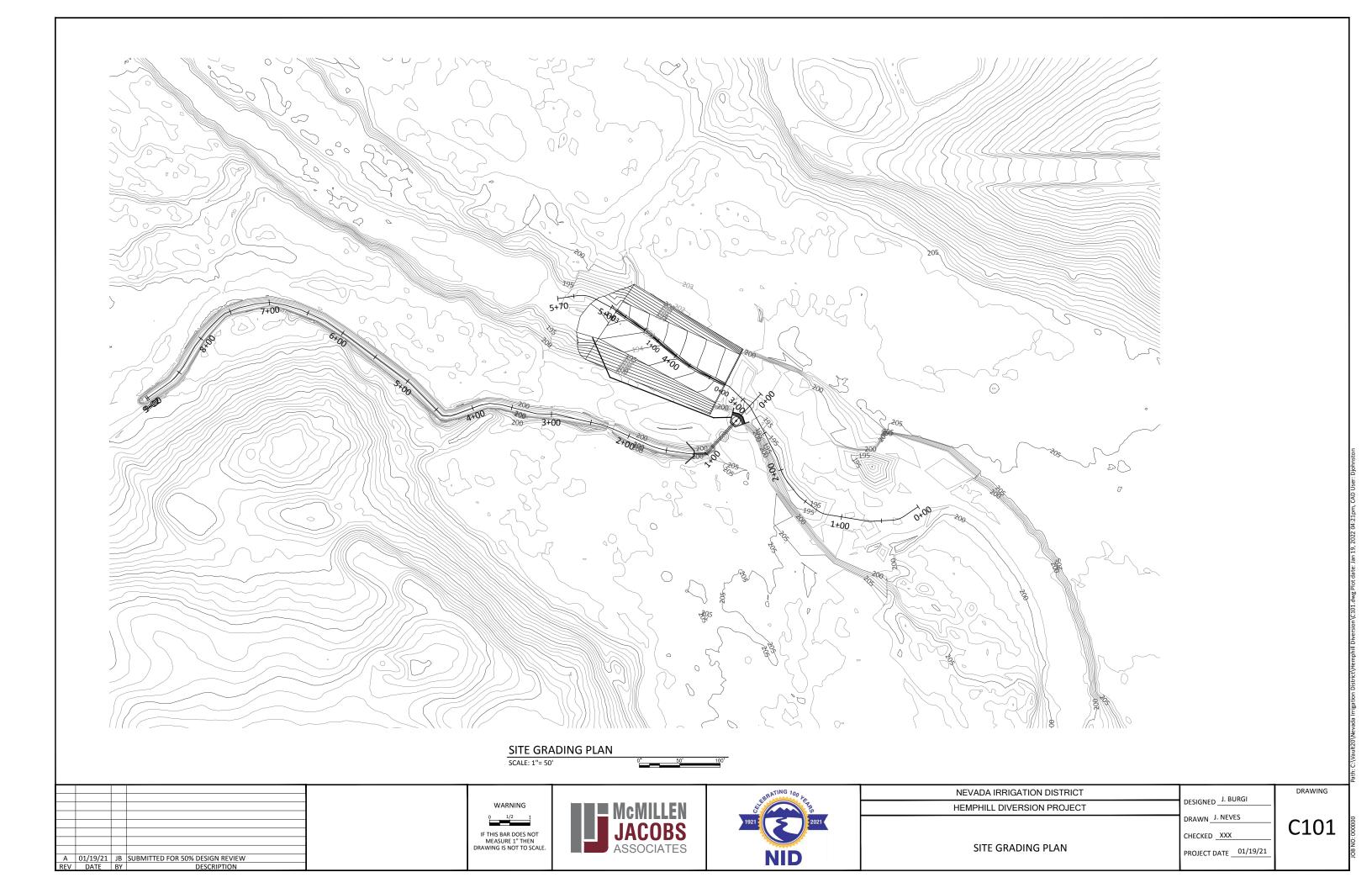


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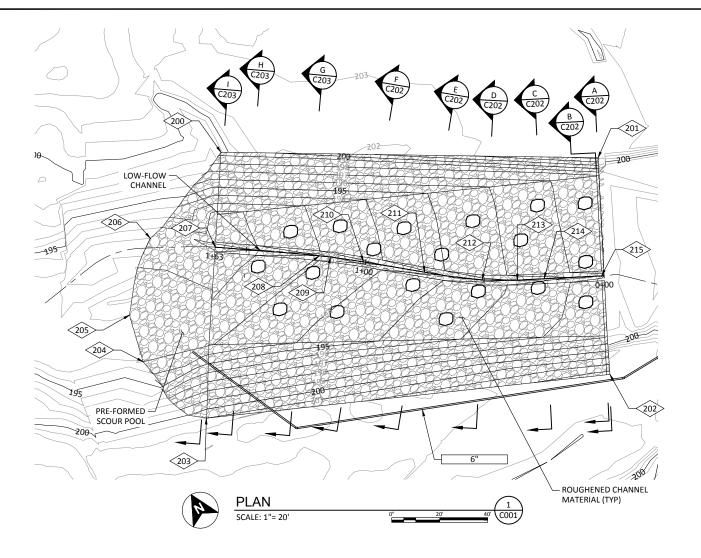
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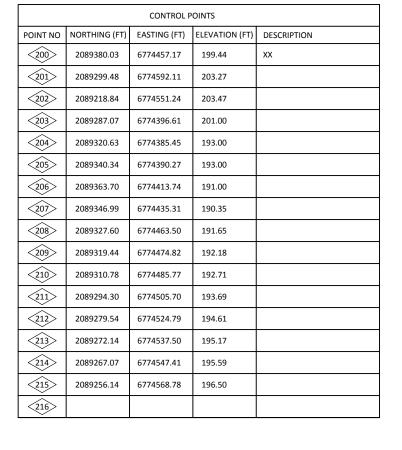
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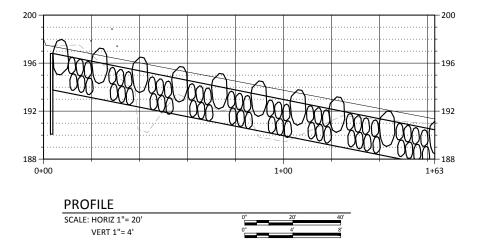












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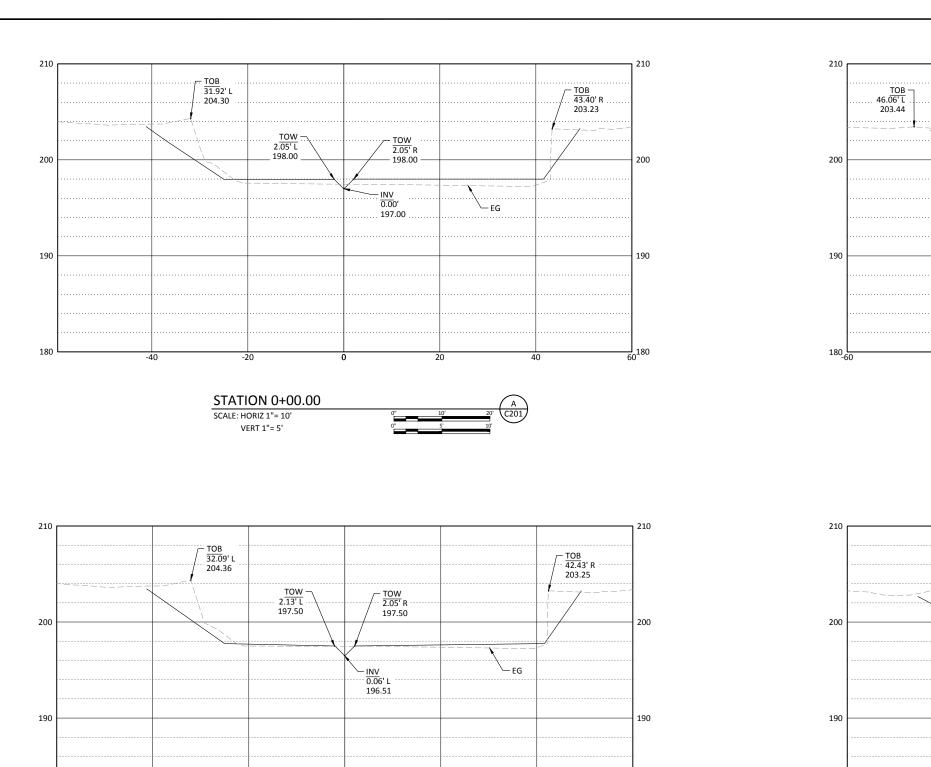


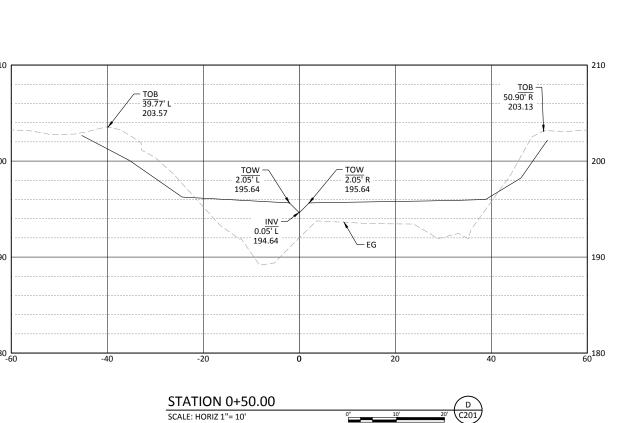


NEVADA IRRIGATION DISTRICT	DESIGNED K. JENSEN
HEMPHILL DIVERSION PROJECT	DESIGNED
	DRAWN J. NEVES
ROUGHENED CHANNEL - PLAN AND	CHECKED V. AUTIER
PROFILE	PROJECT DATE 01/19/21

DRAWING

C201





-- <u>TOW</u> ... 172.05' R . 243.58

└_ EG

TOW -167.95' R ··· 243.58

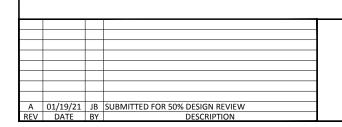
<u>INV</u> -0.05' R 195.59

STATION 0+25.00

VERT 1"= 5'

VERT 1"= 5'

SCALE: HORIZ 1"= 10'



STATION 0+01.00

SCALE: HORIZ 1"= 10' VERT 1"= 5'







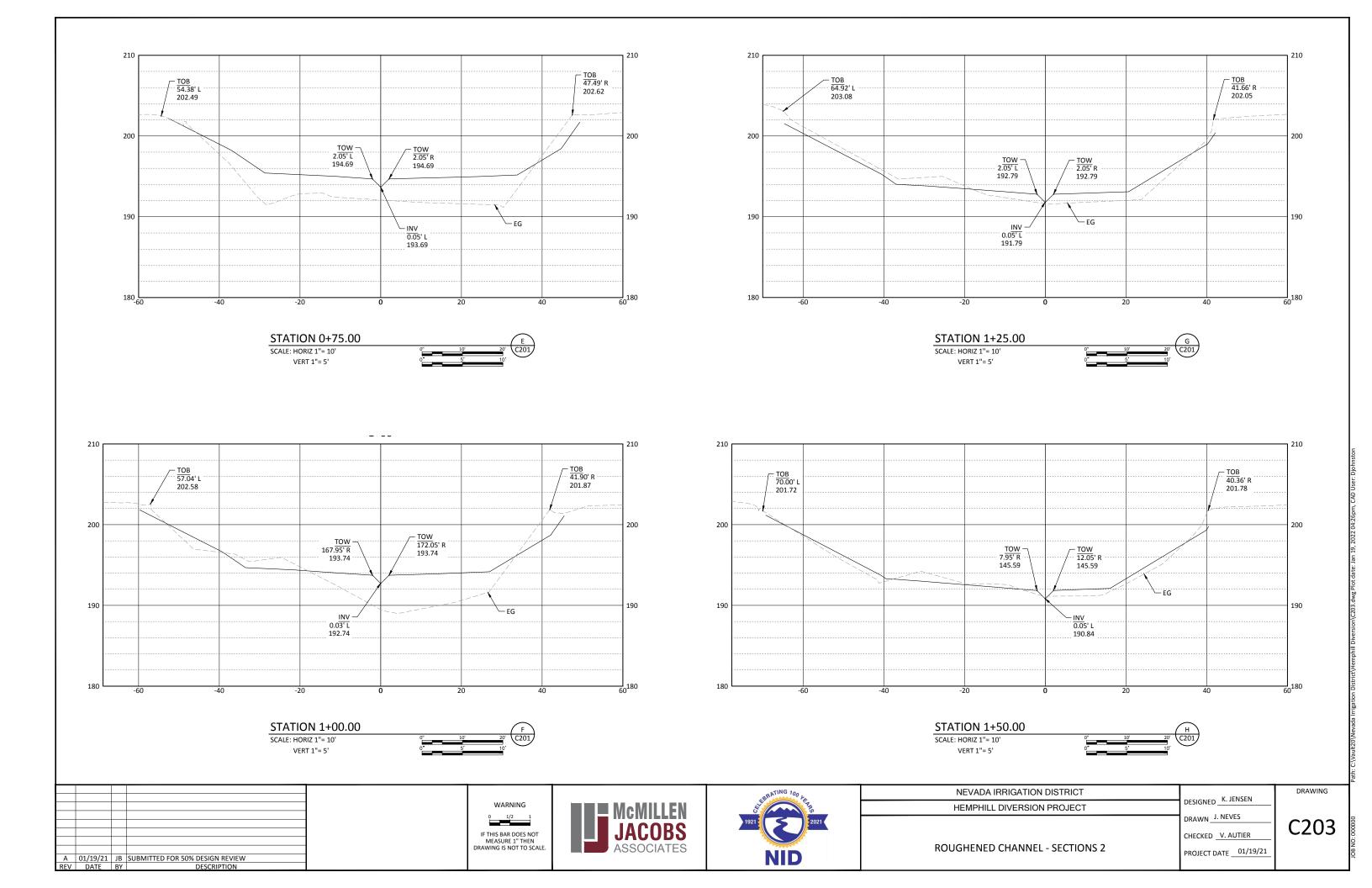
NEVADA IRRIGATION DISTRICT	DESIGNED K. JENSEN	
HEMPHILL DIVERSION PROJECT	DESIGNED	
	DRAWN J. NEVES	
	CHECKED V. AUTIER	
ROUGHENED CHANNEL - SECTIONS 1	PROJECT DATE 01/19/21	

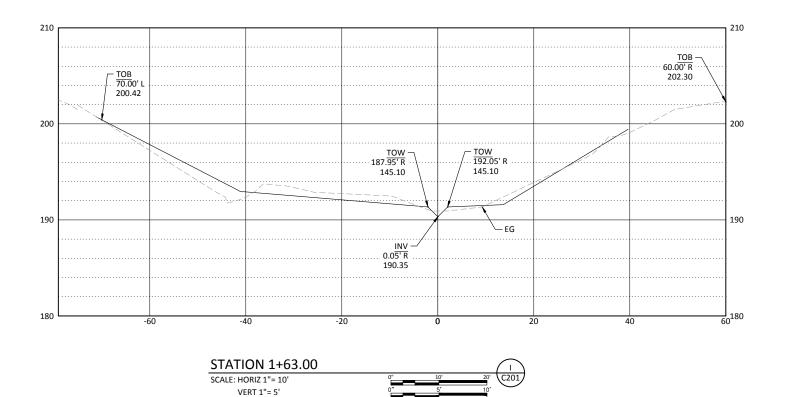
K. JENSEN NEVES . AUTIER

TOB -50.55' R 204.00

190

C202





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REV DATE BY DESCRIPTION

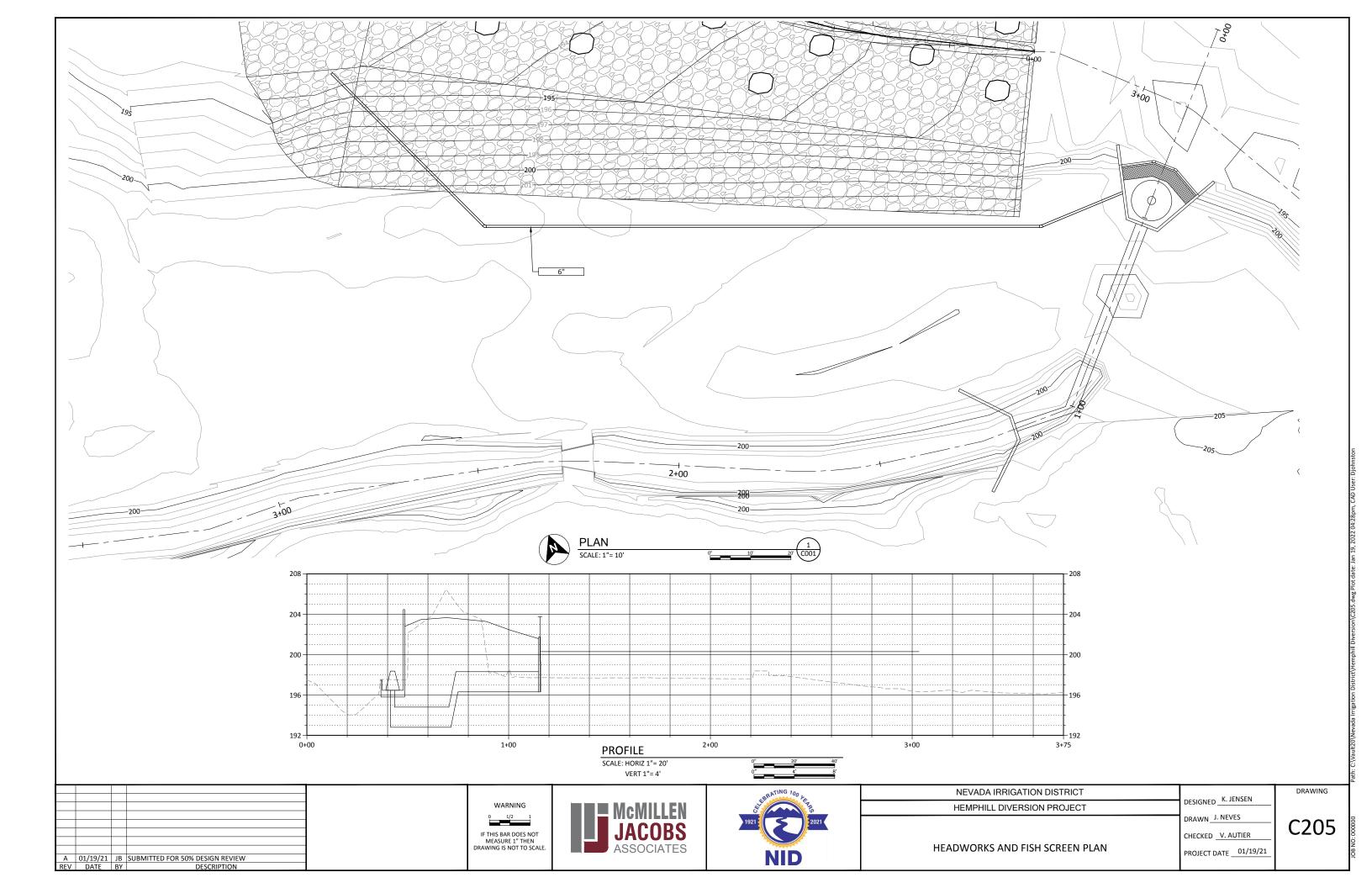






NEVADA IRRIGATION DISTRICT	DESIGNED K. JENSEN	
HEMPHILL DIVERSION PROJECT	DESIGNED	
	DRAWN J. NEVES	
ROUGHENED CHANNEL - SECTIONS 3	CHECKED V. AUTIER	
	PROJECT DATE01/19/21	

C204



- A. CONSTRUCTION DOCUMENTS:

 1. THE CONTRACTOR SHALL REVIEW THE APPROVED CONTRACT DOCUMENTS AND NOTIFY THE ENGINEER OF ANY ERRORS OR DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.
 - THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY IF ANY UNIDENTIFIED EXISTING UNDERGROUND UTILITIES ARE DISCOVERED.
 - 3. THE STRUCTURAL CONTRACT DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, BRACING AND/OR SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC.
 - 4. UNDER NO CIRCUMSTANCES CAN STRUCTURAL COMPONENTS BE SUBSTITUTED, OMITTED, OR ALTERED FROM THE APPROVED SET OF CONSTRUCTION DOCUMENTS WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.

- B. DIMENSIONS AND NOTATIONS:

 1. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS.
 - 2. ABBREVIATIONS USED ON THE APPROVED CONSTRUCTION DOCUMENTS SHALL BE CONSIDERED TYPICAL ABBREVIATIONS FOR THE INDUSTRY. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY ABBREVIATIONS THAT ARE UNKNOWN TO THE

C. TYPICAL NOTES AND DETAILS:

- SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER STANDARD TYPICAL NOTES AND DETAILS.
- 2. STANDARD TYPICAL NOTES AND DETAILS ARE TO BE USED WHEN REFERRED TO OR WHEN NO OTHER MORE RESTRICTIVE OR DIFFERENT DETAILS ARE SHOWN ON THE DRAWINGS
- 3. WORK NOT PARTICULARLY SHOWN OR SPECIFIED SHALL BE THE SAME AS SIMILAR PARTS THAT ARE SHOWN OR SPECIFIED.

D. CODE REQUIREMENTS:

- 1. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF REGULATING AGENCIES WHICH MAY HAVE AUTHORITY OVER ANY
- 2. SPECIFICATIONS, CODES AND STANDARDS NOTED SHALL BE OF THE LATEST APPROVED ISSUE, INCLUDING SUPPLEMENTS, UNLESS NOTED

2) CODES, STANDARDS, AND REFERENCES:

- A. ASCE 7-16: MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR **BUILDINGS AND OTHER STRUCTURES**
- B. ACI 318-14: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE C. ACI 350-06: CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES
- D. 2019 CALIFORNIA BUILDING CODE (CBC)
- E. AISC DESIGN GUIDE 27 STRUCTURAL STAINLESS STEEL, 2013
- F. ALUMINUM DESIGN MANUAL 2020 (AA)

3) STEEL

S1. GENERAL

STRUCTURAL STEEL WORK (EXCLUDING THE GATE ASSEMBLY) SHALL COMPLY WITH THE REQUIREMENTS OF THE AISC SPECIFICATIONS, THE AISC CODE OF STANDARD PRACTICE, AND SECTION 05 12 00 (STRUCTURAL STEEL) OF THE TECHNICAL **SPECIFICATIONS**

S2. MATERIALS

STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING ASTM STANDARDS:

- 1. GATE HOIST STRUCTURE ELEMENTS (ABOVE SPILLWAY)
- A. WIDE FLANGE SHAPES (W) A992, GR 50 GALV
- B. OTHER SHAPES, PLATES, BARS A36 GALV C. BOLTS - A325, TYPE 1 GALV
- D. NUTS AND WASHERS A563, TYPE 1 GALV
- 2. ANCHOR BOLTS
 - A. STAINLESS STEEL F593, TYPE 316
 - B. GALV STEEL F1554 GR 36/F2329

S3. FASTENERS

ALL HIGH-STRENGTH BOLTS SHALL BE INSTALLED, TIGHTENED, AND INSPECTED IN ACCORDANCE WITH THE RCSC FOR A PRETENSIONED JOINT TYPE, UNLESS NOTED OTHERWISE

S4. WELDING

WELDING SHOWN FOR STRUCTURAL STEEL (EXCLUDING THE GATE ASSEMBLY) WILL COMPLY WITH AWS D1.1 AND SECTION 05 12 00 (STRUCTURAL STEEL) OF THE TECHNICAL SPECIFICATIONS.

WELDING SHOWN FOR STAINLESS STEEL ELEMENTS WILL COMPLY WITH AWS D1.6/D1.6M

FIELD WELDING SYMBOLS HAVE NOT NECESSARILY BEEN INDICATED ON THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE USE OF SHOP AND FIELD WELDS.

4) CONCRETE:

- A. ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF ACI 301 AND ACI 117, EXCEPT AS MODIFIED BY THE FOLLOWING SUPPLEMENTAL REQUIREMENTS:
- ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE.
- CONCRETE MIX DESIGN SHALL BE ESTABLISHED IN ACCORDANCE WITH CHAPTER 5 OF ACI 350.
- D. COMPRESSIVE STRENGTH (28 DAYS)
- REINFORCEMENT FOR CONCRETE:
 ALL REINFORCING SHALL BE SUPPORTED IN FORMS SPACED WITH NECESSARY ACCESSORIES
 AND SHALL BE SECURELY WIRED TOGETHER IN ACCORDANCE WITH THE LATEST EDITION OF THE CRSI "MANUAL OF STANDARD PRACTICE"
- 2. CLEAR COVER
 - a) CONCRETE CAST AGAINST EARTHb) ALL OTHER CONCRETE, UNO
- FORMWORK: DESIGN, ERECT, SUPPORT, BRACE AND MAINTAIN FORMWORK TO SUPPORT VERTICAL, LATERAL, STATIC AND DYNAMIC LOADS THAT MIGHT BE APPLIED UNTIL STRUCTURE CAN SUPPORT SUCH LOADS.

5) ALUMINUM:

- A. ALL ALUMINUM WORK SHALL CONFORM TO THE LATEST EDITION OF THE ALUMINUM DESIGN MANUAL BY THE ALUMINUM ASSOCIATION.
- B. UNLESS OTHERWISE INDICATED, ALUMINUM METALWORK SHALL BE FABRICATED FROM ALLOY 6061-T6, EXCEPT GRATING WHICH SHALL BE PER
- C. ALUMINUM IN CONTACT WITH CONCRETE, MASONRY, WOOD, POROUS MATERIALS OR DISSIMILAR METALS SHALL HAVE CONTACT SURFACES COATED
 - AMERCOAT 351
 - SHERWIN WILLIAMS MACROPOXY 646 TNEMEC EPOXOLINE 80
 - OR APPROVED EQUAL

6) REINFORCEMENT:

- A. ASTM A615 FY = 60,000 PSI
 B. SEE SPECIFICATIONS FOR REINFORCING PLACEMENT REQUIREMENTS.
- C. ABSOLUTELY NO WELDING OF REINFORCING BARS OR TORCHING TO BEND REINFORCING BARS SHALL BE ALLOWED WITHOUT SPECIFIC APPROVAL FROM THE STRUCTURAL ENGINEER

7) TESTS AND INSPECTIONS:

- CONSTRUCTION SHALL BE SUBJECT TO INSPECTION BY THE BUILDING OFFICIAL OR THE AUTHORITY HAVING JURISDICTION AND SUCH CONSTRUCTION OR WORK SHALL REMAIN ACCESSIBLE AND EXPOSED FOR INSPECTION PURPOSES UNTIL APPROVED.
- THE CONTRACTOR IS RESPONSIBLE TO NOTIFY THE BUILDING OFFICIAL OR THE AUTHORITY HAVING JURISDICTION WHEN WORK IS READY FOR INSPECTION. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ACCESS TO AND MEANS FOR INSPECTIONS OF SUCH WORK THAT ARE REQUIRED BY THE BUILDING OFFICIAL OR AUTHORITY HAVING JURISDICTION.

PROJECT COORDINATES		
ATITUDE:	38.896722	
ONGITUDE: -121.2		
IVE LOADS		
ELEVATED PLATFORMS	60 PSF	
HYDROSTATIC LOADS		
UNIT WEIGHT OF WATER	62.4 PCF	
EARTH LOADS		
Ka		
Ко		
Ke (SEISMIC EARTH PRESSURE)		
NATIVE SOIL		
FRICTION ANGLE		

DESIGN LOADS - GENERAL

CORESION	
UNIT WEIGHT	
MODULUS OF ELASTICITY	
STRUCTURAL FILL	
COEFFICIENT OF FRICTION - SOIL TO CIP CONCRETE	0.49
COEFFICIENT OF FRICTION - SOIL TO PRECAST CONCRETE	0.39

COHESION

WIND DESIGN DATA

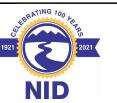
ULTIMATE DESIGN WIND SPEED (Vult)	115 MPH
NOMINAL DESIGN WIND SPEED (Vasd)	90 MPH
RISK CATEGORY	II
WIND EXPOSURE	В
EARTHQUAKE DESIGN DATA	
RISK CATEGORY	1
IMPORTANCE FACTOR (Ie)	1.0
SPECTRAL RESPONSE PARAMETER (Ss)	0.447
SPECTRAL RESPONSE PARAMETER (S1)	0.2220
SITE CLASS	D

DESIGN SPECTRAL RESPONSE PARAMETER (Sds) 0.430 GEOTECHNICAL INFORMATION DESIGN LOAD BEARING VALUE (ASD, STANDARD) FROST DEPTH

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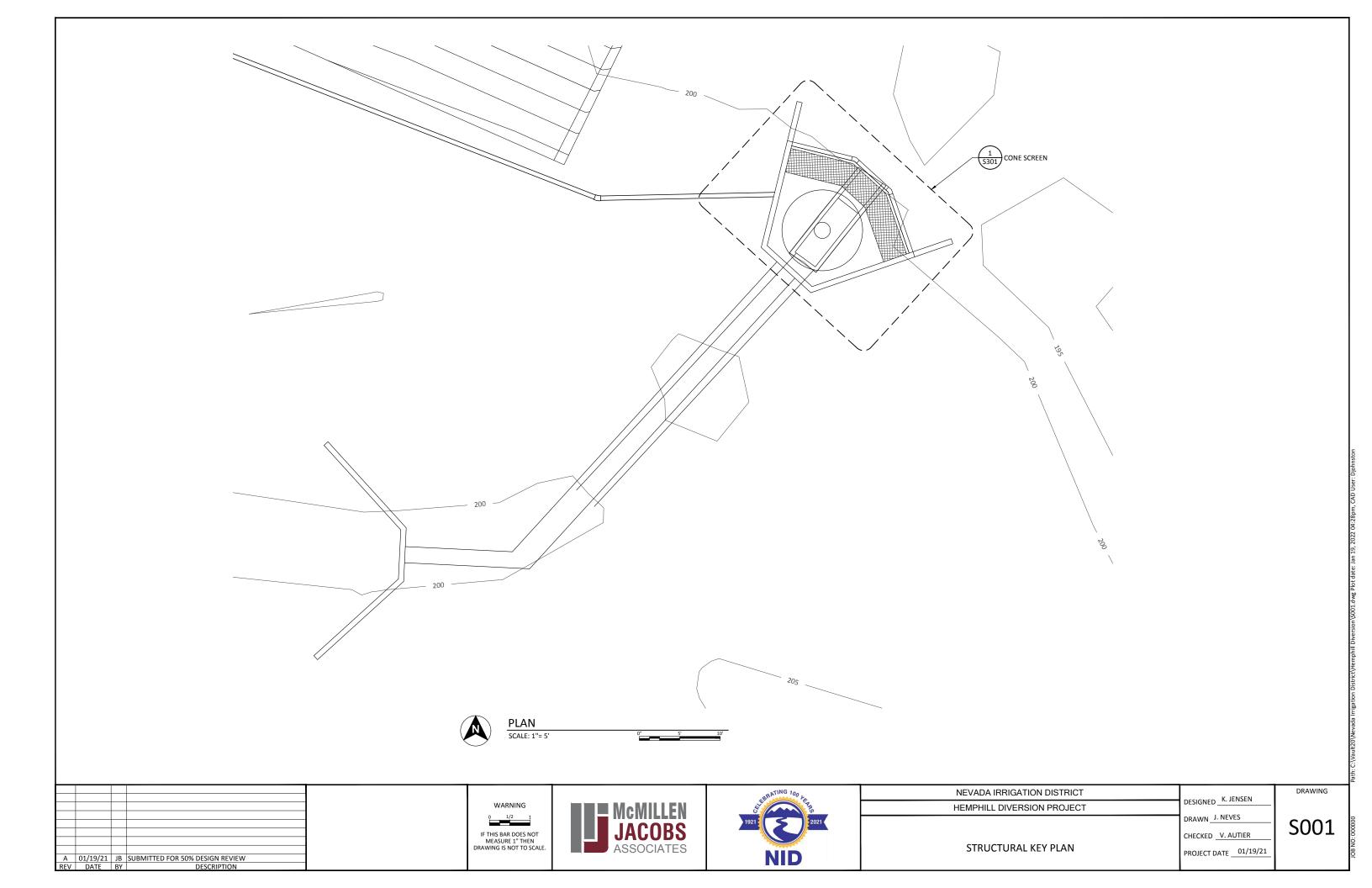
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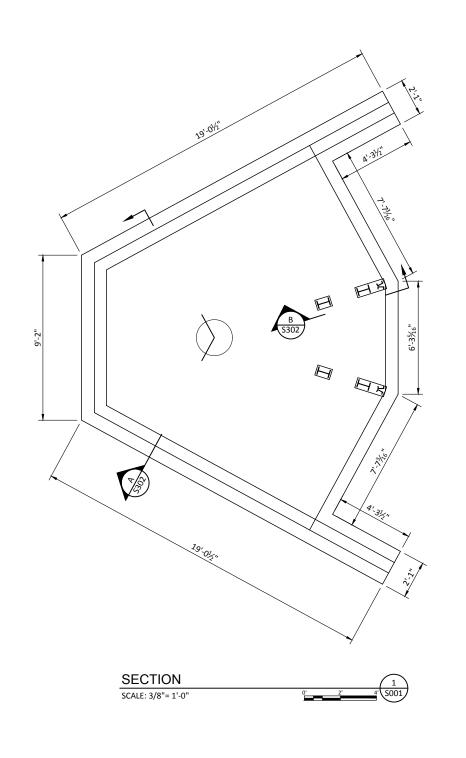
NEVADA IRRIGATION DISTRICT HEMPHILL DIVERSION PROJECT

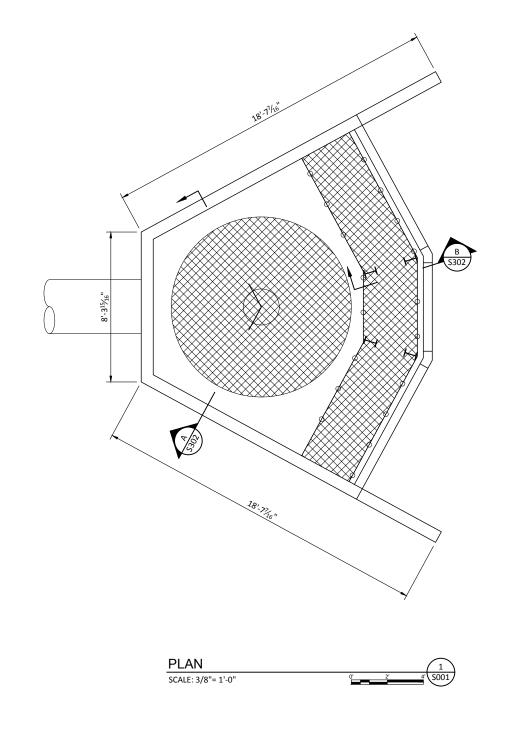
STANDARD STRUCTURAL NOTES

DESIGNED _Z. AUTIN DRAWN R. GUERRERO CHECKED -T. BOWEN PROJECT DATE __01/19/21

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REV	DATE	BY	DESCRIPTION







NEVADA IRRIGATION DISTRICT	IZ JENICENI	
HEMPHILL DIVERSION PROJECT	DESIGNED	
	DRAWN J. NEVES	
	CHECKED V. AUTIER	
CONE SCREEN ALCOVE - FOUNDATION PLAN	PROJECT DATE01/19/21	

DRAWING

S301