KLAMATH RIVER RENEWAL CORPORATION

McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION
FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

VOLUME 2 - CONSTRUCTION DRAWINGS
JUNE 2022

100% DESIGN SUBMITTAL

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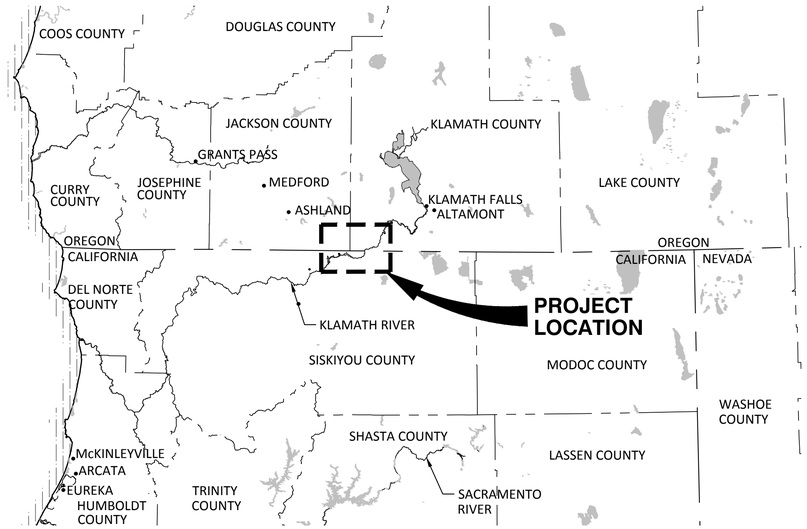
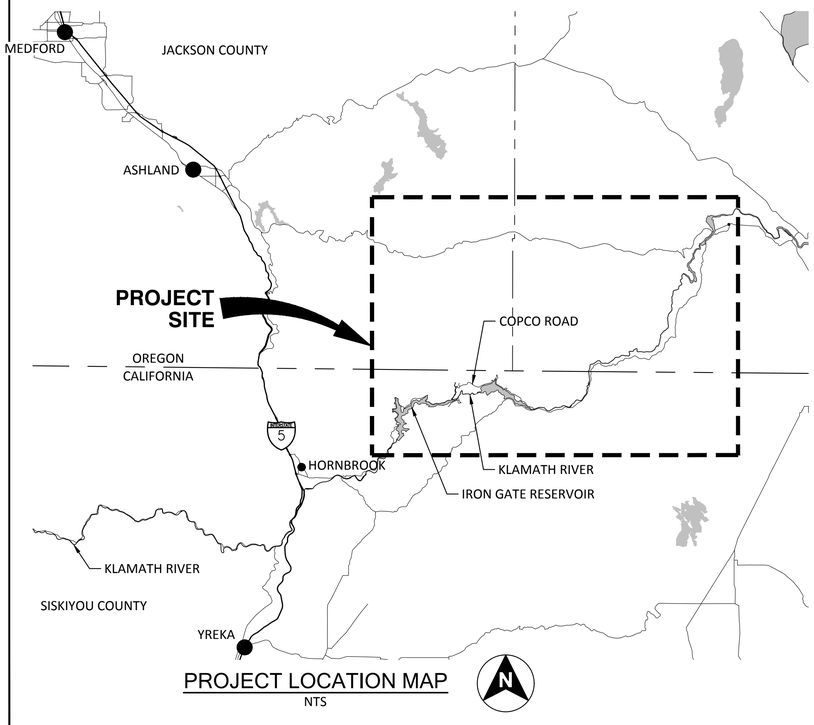
KLAMATH RIVER RENEWAL CORPORATION

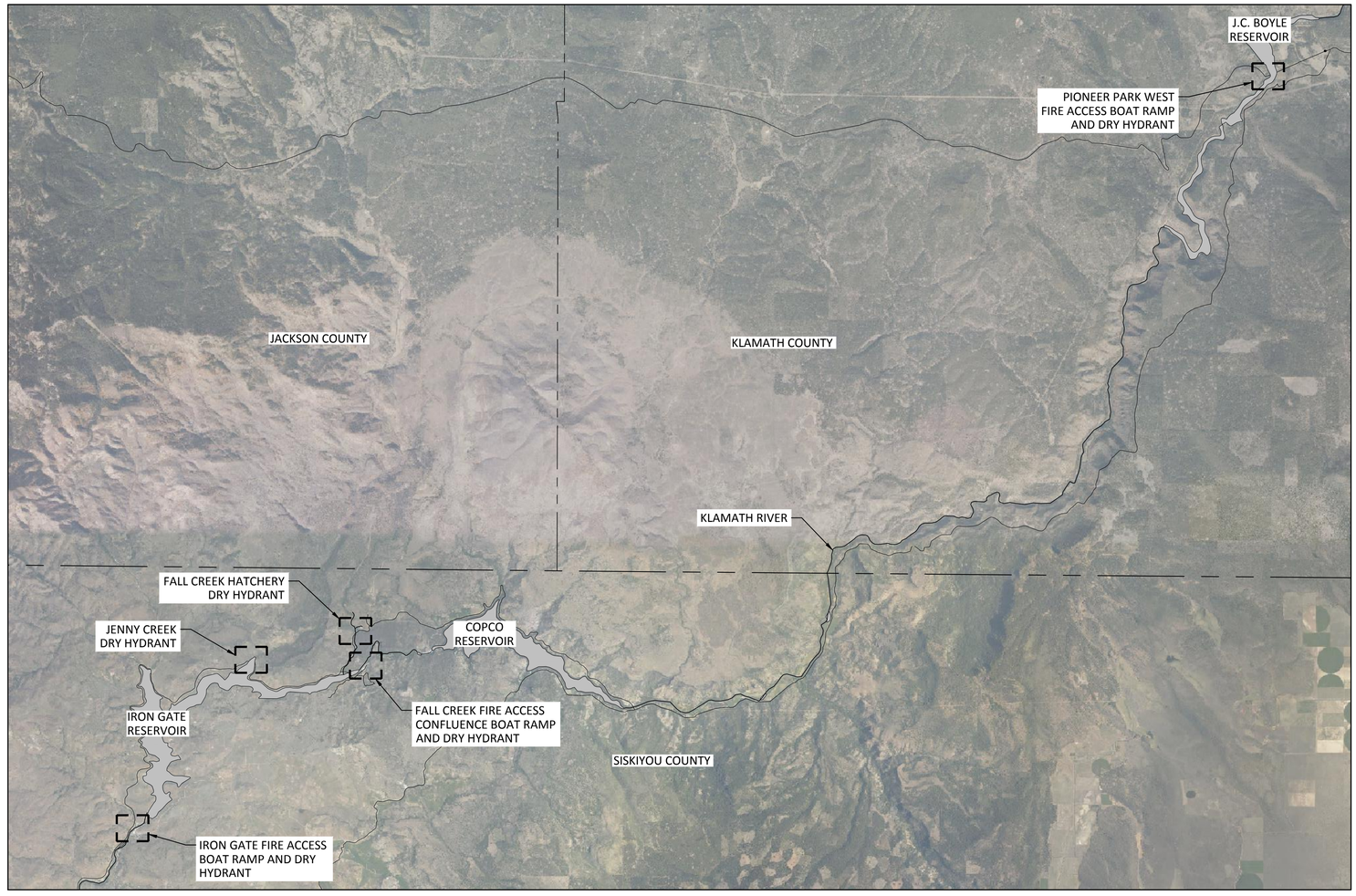
FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS
100% DESIGN SUBMITTAL



PROJECT VICINITY MAP
NTS



PROJECT LOCATION MAP
NTS



SITE MAP
NTS

REV	DATE	BY	DESCRIPTION
A	06/22/22	KRJ	100% DESIGN SUBMITTAL

LICENSED PROFESSIONAL ENGINEER
KEVIN RONALD JENSEN
90536
CIVIL
STATE OF CALIFORNIA

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

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KLAMATH RIVER RENEWAL CORPORATION

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FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

LOCATION MAP, VICINITY MAP AND SITE MAP

DESIGNED K. JENSEN
DRAWN R. WOOD
CHECKED M. MCMILLEN
PROJECT DATE 06/22/22

DRAWING
G001

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\G001.dwg Plot date: Jun 24, 2022 10:51am, CAD User: wood

DRAWING INDEX

DWG NO	SHEET NO.	DESCRIPTION
		GENERAL
		COVER SHEET
1	G001	LOCATION MAP, VICINITY MAP AND SITE MAP
2	G002	DRAWING INDEX
3	G003	STANDARD ABBREVIATIONS
4	G004	STANDARD SYMBOLS
5	G005	DESIGN CRITERIA
6	G006	PIPING SCHEDULE
		EROSION AND SEDIMENT CONTROL
7	EC001	EROSION AND SEDIMENT CONTROL STANDARD NOTES
8	EC002	EROSION AND SEDIMENT CONTROL STANDARD DETAILS
9	EC003	EROSION AND SEDIMENT CONTROL KEY PLAN
10	EC100	EROSION AND SEDIMENT CONTROL PLAN IRON GATE
11	EC200	EROSION AND SEDIMENT CONTROL PLAN JENNY CREEK
12	EC300	EROSION AND SEDIMENT CONTROL PLAN FALL CREEK HATCHERY
13	EC400	EROSION AND SEDIMENT CONTROL PLAN FALL CREEK CONFLUENCE
14	EC500	EROSION AND SEDIMENT CONTROL PLAN PIONEER PARK WEST
		CIVIL
15	GC001	CIVIL GENERAL NOTES
16	GC002	CIVIL STANDARD DETAILS 1
17	GC003	CIVIL STANDARD DETAILS 2
18	C001	DRY HYDRANT TYPICAL DETAILS 1
19	C002	DRY HYDRANT TYPICAL DETAILS 2
20	C003	FIRE ACCESS BOAT RAMP PRECAST DETAILS
21	C004	FIRE ACCESS BOAT RAMP CAST-IN-PLACE DETAILS
22	C005	OVERALL SITE KEY PLAN
23	C100	IRON GATE FIRE ACCESS BOAT RAMP AND DRY HYDRANT PLAN
24	C101	IRON GATE FIRE ACCESS BOAT RAMP AND ACCESS ROAD PROFILES
25	C200	JENNY CREEK DRY HYDRANT PLAN
26	C300	FALL CREEK HATCHERY DRY HYDRANT PLAN
27	C400	FALL CREEK CONFLUENCE FIRE ACCESS BOAT RAMP AND DRY HYDRANT PLAN
28	C401	FALL CREEK CONFLUENCE FIRE ACCESS BOAT RAMP PROFILE
29	C500	PIONEER PARK WEST FIRE ACCESS BOAT RAMP AND DRY HYDRANT PLAN
30	C501	PIONEER PARK WEST FIRE ACCESS BOAT RAMP PROFILE

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FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS
DRAWING INDEX

DESIGNED K. JENSEN
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CHECKED M. MCMILLEN
PROJECT DATE 06/22/22

DRAWING
G002

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\G002.dwg Plot date: Jun 24, 2022 10:51am, CAD User: wood

A/C	AIR CONDITIONING
A/E	ARCHITECT/ENGINEER
A	ARCHITECTURAL (DWG DISCIPLINE), AMP
AB	ANCHOR BOLT
ABC	AGGREGATE BASE COURSE
ABAN	ABANDON
AC	ALTERNATING CURRENT
ACST	ACOUSTIC
AD	ADDENDUM, AREA DRAIN
ADDL	ADDITIONAL
ADH	ADHESIVE
ADJ	ADJUSTABLE, ADJACENT
AF	AMP FRAME, AMP FUSE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AGGR	AGGREGATE
AIC	AMPS INTERRUPTING CAPACITY
ALIG	ALIGNMENT
ALUM	ALUMINUM
ALT	ALTERNATE, ALTITUDE
AMB	AMBIENT
ANC	ANCHOR
AP	ACCESS PANEL
APRX	APPROXIMATE
APVD	APPROVED ARCH ARCHITECTURAL
ARV	AIR RELEASE VALVE
ASSY	ASSEMBLY
AT	AMP TRIP
ATM	ATMOSPHERE
AUTO	AUTOMATIC
AUX	AUXILIARY
AVE	AVENUE
AVG	AVERAGE
AWG	AMERICAN WIRE GAGE
B/B	BACK TO BACK
BAL	BALANCE
BBD	BULLETIN BOARD
BC	BASE CABINET, BOTTOM CHORD, BOLT CENTER, BOLT CIRCLE
BD	BOARD
BE	BOTH ENDS, BELL END
BF	BOTH FACES, BOTTOM FACE, BLIND FLANGE, BOARD FEET
BFV	BUTTERFLY VALVE
BITUM	BITUMINOUS
BKG	BACKING
BL	BASE LINE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BENCHMARK, BEAM
BOC	BACK OF CURB
BOD	BOTTOM OF DUCT
BOG	BOTTOM OF GRILLE
BOL	BOTTOM OF LOUVER
BOP	BOTTOM OF PIPE
BOR	BOTTOM OF REGISTER
BOT	BOTTOM
BOU	BOTTOM OF UNIT
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
C TO C	CENTER TO CENTER
C&G	CURB & GUTTER
C	CHANNEL SHAPE, CENTIGRADE, CONDUIT, CIVIL (DRAWING DISCIPLINE)
CAB	CABINET
CAP	CAPACITY
CAT	CATALOG
CAV	CAVITY
CB	CATCH BASIN
CCB	CONCRETE BLOCK
CCW	COUNTER CLOCKWISE
CF	CUBIC FEET (FOOT)
CHFR	CHAMFER
CHD	CHORD
CHH	COMMUNICATION HANDHOLE
CI	CURB INLET
CIP	CAST-IN-PLACE
CIPB	CONCRETE INTERLOCKING PAVER BALLAST
CIRC	CIRCULATION, CIRCULAR
CJ	CONSTRUCTION JOINT, CONTROL JOINT
CKT	CIRCUIT
CL	CENTERLINE, CLASS, CLOSE

CLR	CLEAR
CMH	COMMUNICATION MANHOLE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT, CONCRETE OPENING
COL	COLUMN
COM	COMMON
COMB	COMBINATION
COMM	COMMUNICATION
COMP	COMPOSITION, COMPRESSIBLE, COMPOSITE
CONC	CONCENTRIC, CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS, CONTINUED
COORD	COORDINATE
CORR	CORROSIVE, CORRUGATED
CP	CHECKER PLATE, CONTROL POINT
CPLG	COUPLING
CSK	COUNTERSINK
CTR	CENTER
CTRL	CONTROL
CU	COPPER, CUBIC
CW	CLOCKWISE
CY	CUBIC YARD
d	PENNY (NAIL MEASURE)
D	DEEP, DIFFUSER
DB	DUCT BANK, DECIBEL, DRY BULB
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DC	DIRECT CURRENT
DEG	DEGREE
DEG C	DEGREE CENTIGRADE
DEG F	DEGREE FAHRENHEIT
DEMO	DEMOLITION
DEP	DEPRESSED
DEPT	DEPARTMENT
DET	DETAIL
DI	DROP INLET, DUCTILE IRON
DIA	DIAMETER
DIAG	DIAGONAL, DIAGRAM
DIFF	DIFFERENTIAL, DIFFERENCE
DIM	DIMENSION
DISCH	DISCHARGE
DIST	DISTANCE, DISTRIBUTION
DIV	DIVISION
DL	DEAD LOAD
DN	DOWN
DP	DEPTH
DS	DOWN SPOUT
DT	DOUBLE TEE, DRIP TRAP ASSEMBLY
DUP	DUPLICATE
DWG	DRAWING
DWL	DOWEL
E	EAST, ELECTRICAL (DWG DISCIPLINE)
EA	EACH, EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
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
ENCL	ENCLOSURE
ENGR	ENGINEER
ENTR	ENTRANCE
EOP	EDGE OF PAVEMENT
EOW	EDGE OF WATER
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ES	EACH SIDE, EQUAL SPACE, EMERGENCY SHOWER
ESEW	EMERGENCY SHOWER AND EYE WASH
EST	ESTIMATE
EW	EACH WAY, EMERGENCY EYE/FACE WASH
EWC	ELECTRIC WATER COOLER
EWEF	EACH WAY, EACH FACE
EWTB	EACH WAY, TOP AND BOTTOM
EXC	EXCAVATION
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION, EXPOSED
EXT	EXTERIOR, EXTERNAL, EXTENSION

F TO F	FACE TO FACE
FAB	FABRICATE
FBO	FURNISHED BY OWNER
FC	FLUSHING CONNECTION
FCA	FLANGED COUPLING ADAPTER
FCV	FIXED CONE VALVE
FD	FLOOR DRAIN
FDC	FLEXIBLE DUCT CONNECTION
FDR	FEEDER
FE	FLANGED END
FEC	FIRE EXTINGUISHER CABINET
FEXT	FIRE EXTINGUISHER
FF	FAR FACE, FACTORY FINISH, FLAT FACE
FG	FINISHED GRADE
FIG	FIGURE
FH	FIRE HYDRANT
FIN	FINISH
FL	FLOW, FLOW LINE
FLEX	FLEXIBLE
FLG	FLANGE
FLOR	FLUORESCENT
FLR	FLOOR
FLS	FLASHING, FLUSH
FND	FOUNDATION
FNC	FENCE
FO	FINISHED OPENING
FOB	FLAT ON BOTTOM
FOC	FACE OF CONCRETE, FACE OF CURB, FIBER OPTIC CABLE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FOT	FLAT ON TOP
FPT	FEMALE PIPE THREAD
FR	FRAME
FRP	FIBERGLASS REINFORCED PLASTIC
FS	FLOOR SINK, FAR SIDE
FT	FEET, FOOT
FTG	FOOTING, FITTING FUR FURRED, FURRING
FURN	FURNITURE, FURNISH
FUT	FUTURE
FV	FACE VELOCITY
FW	FIELD WELD, FIRE WALL
FWD	FORWARD
FWE	FURNISHED WITH EQUIPMENT
FXTR	FIXTURE
G	GRILLE, GROUND, GENERAL (DWG DISCIPLINE)
GA	GAGE (METAL THICKNESS)
GAL	GALLON
GALV	GALVANIZED
GB	GRADE BREAK
GD	GUARD
GEN	GENERAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GL	GLASS
GP	GUY POLE
GR	GRADE
GRND	GROUND
GRTG	GRATING
GT	GREASE TRAP
GWB	GYPSUM WALLBOARD
GYP	GYPSUM HARDBOARD
H	HIGH
HB	HOSE BIB
HBD	HARDBOARD
HC	HANDICAPPED, HOLLOW CORE, HORIZONTAL CURVE
HC	HORIZONTAL CENTERLINE
HDR	HEADER
HDW	HARDWARE
HEX	HEXAGONAL
HH	HANDHOLE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT, HORSEPOWER
HPC	HORIZONTAL POINT OF CURVATURE
HPS	HIGH PRESSURE SODIUM
HPT	HORIZONTAL POINT OF TANGENCY
HR	HOUR
HS	HEADED STUD, HIGH STRENGTH
HSS	HOLLOW STRUCTURAL SHAPE
HT	HEIGHT
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HWD	HARDWOOD
HWL	HIGH WATER LEVEL
HYD	HYDRAULIC HZ HERTZ, CYCLES PER SECOND

I	INSTRUMENTATION (DWG DISCIPLINE)
ID	INSIDE DIAMETER, INTERIOR DIMENSION
IE	INVERT ELEVATION
IF	INSIDE FACE
IH	INTAKE HOOD
IMP	IMPACT
IN	INCH
INC	INCLUDE, INCANDESCENT
INF	INFLUENT
INSTR	INSTRUMENTATION
INSUL	INSULATION
INT	INTERIOR, INTERSECTION
INTR	INTERMEDIATE, INTERIOR
INV	INVERT
IPS	IRON PIPE SIZE
IPT	INTERNAL PIPE THREAD
IRR	IRRIGATION
ISO	ISOMETRIC
JB	JUNCTION BOX
JCT	JUNCTION
JF	JOINT FILLER
JT	JOINT
K	KIP
KB	KNEE BRACE
KCMIL	THOUSAND CIRCULAR MILS
KD	KNOCK DOWN
KO	KNOCK OUT
KSI	KIPS PER SQUARE INCH
L	ANGLE, LENGTH, LAVATORY
LAM	LAMINATE
LATL	LATERAL
LB	LAG BOLT, POUND
LDR	LEADER
LF	LINEAR FOOT
LG	LONG
LH	LEFT HAND
LIN	LINEAR
LIQ	LIQUID
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LMLU	LIQUID MARKER LECTURE UNIT
LNG	LONGITUDINAL
LOC	LOCATION
LP	LOW POINT
LPS	LOW PRESSURE SODIUM
LR	LONG RADIUS
LT	LEFT
LTD	LIMITED
LTG	LIGHTING
LTL	LINTEL
LTNG	LIGHTNING
LV	LOW VOLTAGE
LVR	LOUVER
LW	LIGHTWEIGHT
LWC	LIGHTWEIGHT CONCRETE
LWL	LOW WATER LEVEL
M	MECHANICAL (DWG DISCIPLINE)
MA	MIXED AIR
MAINT	MAINTENANCE
MAN	MANUAL
MAOP	MAXIMUM ALLOWABLE OPERATING PRESSURE
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MBR	MEMBER
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MED	MEDIUM
MFR	MANUFACTURER
MH	MANHOLE, METAL HALIDE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MMB	MEMBRANE
MO	MASONRY OPENING
MOD	MODULAR, MODIFY
MON	MONUMENT
MPT	MALE PIPE THREAD
MSL	MEAN SEA LEVEL
MT	MOUNT
MU	MASONRY UNIT
MULL	MULLION
MV	MEDIUM VOLTAGE
MW	MONITORING WELL

N	NORTH, NEUTRAL
NA	NOT APPLICABLE
NAT	NATURAL
NC	NORMALLY CLOSED
NEG	NEGATIVE
NF	NEAR FACE, NON-FUSED
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN, NUMBER
NOM	NOMINAL
NPS	NOMINAL PIPE SIZE
NPT	NATIONAL PIPE THREAD
NS	NEAR SIDE
NTS	NOT TO SCALE
NWL	NORMAL WATER LEVEL
O TO O	OUT-TO-OUT
OA	OUTSIDE AIR, OVERALL
OC	ON CENTER
OCPD	OVER CURRENT PROTECTION DEVICE
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OPT	OPTIONAL
ORD	OVERFLOW ROOF DRAIN
ORIG	ORIGINAL
OVFL	OVERFLOW
OVHG	OVERHANG
OZ	OUNCE
P	PAINT, PROCESS (DWG DISCIPLINE)
PAR	PARALLEL, PARAPET
PB	PANIC BAR, PULL BOX
PBD	PARTICLE BOARD
PC	POINT OF CURVE, PIECE, PRECAST
PCC	POINT OF COMPOUND CURVATURE
PCF	POUNDS PER CUBIC FOOT
PCT	PERCENT
PE	PLAIN END
PED	PEDESTAL
PEMB	PRE-ENGINEERED METAL BUILDING
PEN	PENETRATION
PERF	PERFORATED
PERM	PERMANENT
PERP	PERPENDICULAR
PF	POWER FACTOR
PH	PHASE
PI	POINT OF INTERSECTION
PKG	PACKAGE
PL	PLATE, PROPERTY LINE
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PNEU	PNEUMATIC
POL	POLISH
POS	POSITIVE, POSITION
PP	POLYPROPYLENE, POWER POLE
PRC	POINT OF REVERSE CURVATURE
PREF	PREFINISHED
PREFAB	PREFABRICATED
PRELIM	PRELIMINARY
PREP	PREPARE
PRES	PRESSURE
PROP	PROPERTY
PROT	PROTECTION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAGE
PT	POINT, POINT OF TANGENCY
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWD	PLYWOOD
PZ	PIEZOMETER
Q	RATE OF FLOW
QTR	QUARTER
QTY	QUANTITY
QUAL	QUALITY
R&R	REMOVE AND REPLACE
R&S	REMOVE AND SALVAGE
R	RADIUS, REGISTER, RISER
RA	RETURN AIR
RB	RESILIENT BASE, ROCK BERM
RCPT	RECEPTACLE
RD	ROOF DRAIN
REC	RECESS
RECD	RECEIVED
RECT	RECTANGULAR
RED	REDUCER
REF	REFERENCE
REINF	REINFORCING
REQD	REQUIRED

RESIL	RESILIENT
RET	RETAINING, RETURN
REV	REVISION, REVERSE
RFL	REFLECTED, REFLECTOR
RGS	RIGID GALVANIZED STEEL
RH	RELIEF HOOD, RIGHT HAND, RELATIVE HUMIDITY
RL	REQUIRED LAP
RND	ROUND
RNG	RENEWABLE NATURAL GAS
RO	ROUGH OPENING
ROW	RIGHT-OF-WAY
RPM	REVOLUTIONS PER MINUTE
RR	RAILROAD
RT	RIGHT
S	SOUTH, SINK, STRUCTURAL (DWG DISCIPLINE)
SA	SUPPLY AIR
SAN	SANITARY
SC	SOLID CORE
SCH	SCHEDULE
SCHEM	SCHEMATIC
SCRN	SCREEN
SE	STEEL/ALUMINUM EDGE
SEC	SECONDARY, SECONDS
SECT	SECTION
SEP	SEPARATE
SF	SQUARE FOOT
SH	SHOWER
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SL	SLOPE
SLTD	SLOTTED
SLV	SLEEVE
SMLS	SEAMLESS
SOG	SLAB ON GRADE
SP	SOUNDPROOF, STANDPIPE
SPC	SPACING
SPEC	SPECIFICATION
SPLY	SUPPLY
SPT	SET POINT
SQ	SQUARE
SR	SHORT RADIUS
SS	SERVICE SINK
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STD	STANDARD
STIF	STIFFENER
STIR	STIRRUP
STL	STEEL
STOR	STORAGE
STR	STRUCTURAL, STRAIGHT
SUB	SUBSTITUTE
SUC	SUCTION
SUSP	SUSPENDED
SY	SQUARE YARD
SYM	SYMBOL
SYMM	SYMMETRICAL
SYN	SYNTHETIC
SYS	SYSTEM
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T	TILE, TREAD
TA	TEMPERED AIR
TAN	TANGENT
TBM	TEMPORARY BENCHMARK
TEMP	TEMPORARY, TEMPERATURE
THK	THICK
THRD	THREAD
THRU	THROUGH
TOB	TOP OF BOLT, TOP OF BANK, TOP OF BEAM
TOC	TOP OF CURB, TOP OF CONCRETE
TOD	TOP OF DUCT
TOF	TOP OF FOOTING
TOG	TOP OF GRATING
TOL	TOLERANCE, TOP OF LEDGER
TOM	TOP OF MASONRY
TOP	TOP OF PLATE
TOPO	TOPOGRAPHY
TOS	TOP OF SLAB, TOP OF STEEL
TOW	TOP OF WALL
TP	TELEPHONE POLE, TOE PLATE, TRAP PRIMER
TPG	TOPPING
TRANS	TRANSITION
TRD	TRENCH DRAIN
TYP	TYPICAL
U	URINAL
UG	UNDERGROUND
ULT	ULTIMATE
UNFN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE

UTIL	UTILITY
V	VENT, VELOCITY, VOLT
VA	VOLT AMPERE
VAC	VACUUM
VAR	VARNISH, VARIABLE, VOLT AMPERES REACTIVE
VB	VAPOR BARRIER, VINYL BASE, VALVE BOX
VC	VERTICAL CURVE
VCT	VINYL COMPOSITION TILE, VERTICAL CENTERLINE
VEL	VELOCITY
VENT	VENTILATION
VERT	VERTICAL
VS	VERSES, VAPOR SEAL
VOL	VOLUME
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W/	WITH
W/O	WITHOUT
W	WATT, WEST, WIDE, WINDOW, WIRE, WIDE FLANGE BEAM
WC	WATER CLOSET, WATER COLUMN
WD	WIDTH
WF	WIDE FLANGE, WASH FOUNTAIN
WG	WIRE GLASS, WATER GAGE
WH	WALL HYDRANT, WEEP HOLE
WL	WATER LEVEL
WLD	WELDED
WM	WIRE MESH
WP	WATERPROOF, WORKING POINT
WTHP	WEATHERPROOF
WS	WATERSTOP, WATER SURFACE
WSEL	WATER SURFACE ELEVATION
WT	WEIGHT, WATER TIGHT
WWF	WELDED WIRE FABRIC
XS	EXTRA STRONG
XXS	DOUBLE EXTRA STRONG
XSECT	CROSS SECTION
YH	YARD HYDRANT
YS	YIELD STRENGTH

PROJECT SPECIFIC:

CDFW	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE
FCFH	FALL CREEK FISH HATCHERY
IGFH	IRON GATE FISH HATCHERY
KRRC	KLAMATH RIVER RENEWAL CORPORATION
OHWM	ORDINARY HIGH WATER MARK
PEMB	PRE-ENGINEERED METAL BUILDING
CGP	CONSTRUCTION GENERAL PERMIT

GENERAL NOTES:

1. THESE ABBREVIATIONS APPLY TO THE ENTIRE SET OF CONTRACT DRAWINGS.
2. LISTING OF ABBREVIATIONS DOES NOT IMPLY ALL ABBREVIATIONS ARE USED IN THE CONTRACT DRAWINGS.
3. ABBREVIATIONS SHOWN ON THIS SHEET INCLUDE VARIATIONS OF THE WORD. FOR EXAMPLE, "MOD" MAY MEAN MODIFY OR MODIFICATION; "INC" MAY MEAN INCLUDED OR INCLUDING; "REINF" MAY MEAN EITHER REINFORCE OR REINFORCING.
4. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.
5. SEE SHEET ##### FOR PROJECT SPECIFIC EQUIPMENT SYMBOLS, EQUIPMENT ABBREVIATIONS AND PIPING SYSTEM ABBREVIATIONS.

REV	DATE	BY	DESCRIPTION
A	06/22/22	KRJ	100% DESIGN SUBMITTAL

LICENSED PROFESSIONAL ENGINEER — KEVIN RONALD JENSEN — 90536 — CIVIL — STATE OF CALIFORNIA

WARNING

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McMILLEN JACOBS ASSOCIATES

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FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

STANDARD ABBREVIATIONS

DESIGNED K. JENSEN

DRAWN R. WOOD

CHECKED M. MCMILLEN

PROJECT DATE 06/22/22

DRAWING

G003

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\G003.dwg Plot date: Jun 24, 2022 10:51am, CAD User: wood

SHEET SYMBOLS

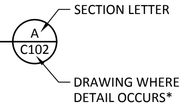
PLAN
SCALE: 1/2"= 1'-0"

SECTION IDENTIFICATION

(1) SECTION CUT ON DRAWING C102:

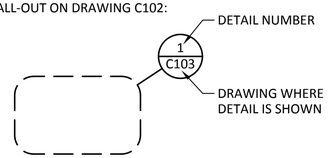
(2) ON DRAWING C103 THIS SECTION IS IDENTIFIED AS:

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



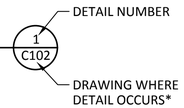
DETAIL IDENTIFICATION

(1) DETAIL CALL-OUT ON DRAWING C102:



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

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



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

STANDARD DETAIL IDENTIFICATION

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

(2) ON DETAIL DRAWINGS, IDENTIFIED AS:

DETAIL

ELEVATION/IMAGE IDENTIFICATION

SITE PLAN LINE TYPES

X X	FENCE LINE
P P	OVERHEAD POWER
455	MAJOR CONTOUR
456	MINOR CONTOUR
· · ·	EDGE OF WATERLINE
TOE	TOE OF SLOPE
TOB	TOP OF BANK
SS SS	SANITARY SEWER
SD SD	STORM DRAIN
EP EP	EDGE OF PAVEMENT
EG EG	EDGE OF GRAVEL
W	WATTLE
SF SF	SILT FENCE
CF CF	CONSTRUCTION FENCE
GAS	GAS LINE
IRR IRR	IRRIGATION LINE
WTR	WATER LINE
TEL	TELEPHONE LINE
COM	COMMUNICATION LINE
OHP	OVERHEAD ELECTRICAL/POWER
EUG	UNDERGROUND ELECTRICAL
P/L	PROPERTY LINE
OHP	EXISTING OVERHEAD POWER LINE
OHP&T	EXISTING OVERHEAD POWER & TELEPHONE LINE
T	EXISTING OVERHEAD TELEPHONE LINE
BT	EXISTING BURIED TELEPHONE LINE EVIDENCED BY PEDESTALS & WARNING PADDLES
× × × × ×	EXISTING FENCE LINE
— — —	PROJECT BOUNDARY
	TREE PROTECTION FENCE
TC	TURBIDITY CURTAIN
SF SF	SILT FENCING
	COFFERDAM
OHW	ORDINARY HIGH WATER
GB	GRADE BREAK

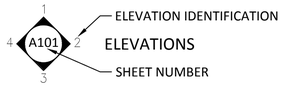
SITE PLAN SYMBOLS

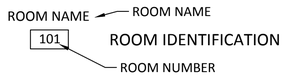
N	ARROW INDICATES DIRECTION OF PLAN NORTH
	CONIFER TREE: FIR, SPRUCE, LARCH OR PINE, 8" DIAMETER OR LARGER.
	DECIDUOUS TREE: COTTONWOOD, HAWTHORN, ASPEN, 8" DIAMETER OR LARGER.
MH	MANHOLE
EB	ELECTRIC BOX
	STORM DRAIN MANHOLE
FH	FIRE HYDRANT
YH-X	YARD HYDRANT
	POLE ANCHOR
	POWER POLE
	LIGHT POLE
	SIGN
	EXISTING HEADWALL
	EXISTING MONITORING STATION
X X	EXISTING FENCE
	STATE PLANE COORDINATE MARKER
	EXISTING TREE LINE
	EXISTING BUILDING, STRUCTURES
W	EXISTING HOSE BIB
P	EXISTING PORTABLE IRRIGATION WATER PUMP
WELL	EXISTING 6" WATER WELL
	EXISTING ELECTRICAL OUTLET
P	EXISTING POWER POLE
T	EXISTING TELEPHONE PEDESTAL
	PUMP
	PUMP
TP	TEST PIT LOCATION
	⅝" REBAR WITH CAP
	ALUMINUM CAP
	MAGNAIL
	SPIKE
XX	SURVEY CONTROL POINT OR NORTHING EASTING

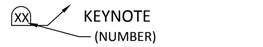
MISCELLANEOUS SYMBOLS

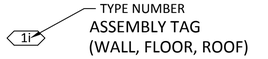
	CHANGE OF PIPE MTL
OR	END OF PIPE
℄	CENTERLINE
Ø	DIAMETER
∠	ANGLE
PL	PLATE
±	PLUS/MINUS

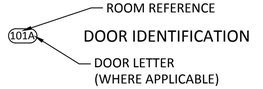
ARCHITECTURAL SYMBOLS

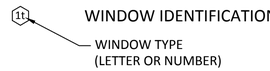




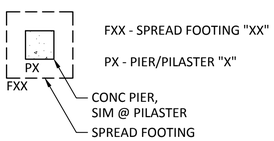


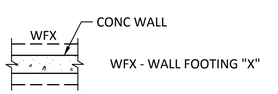






CONCRETE SCHEDULE MARKS





HATCH SYMBOLS

	ROCK, TYPE AS NOTED (PLAN/SECTION)
	BED ROCK
	EXISTING GRADE (SECTION)
	NEW SOIL (SECTION)
	CONCRETE (SECTION/PLAN)
	SAND, GROUT (PLAN/SECTION)
	STEEL (SECTION)
	GRATING (PLAN)
	MASONRY (PLAN)
	WOOD, SIZE/TYPE AS NOTED (PLAN)
	WOOD, SIZE/TYPE AS NOTED (SECTION)
	RIP RAP (PLAN/SECTION)
	RIGID INSULATION (SECTION)
	ASPHALT CONCRETE PAVEMENT SURFACE (PLAN/SECTION)
	GRASS/VEGETATION (PLAN)
	BATT INSULATION (SECTION)
	NEW CONSTRUCTION
	EXISTING
	EXISTING TO BE REMOVED OR DEMOLISHED
	CLEARING AND GRUBBING
	STAGING AREA

GENERAL NOTES:

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

REV	DATE	BY	DESCRIPTION
A	06/22/22	KRJ	100% DESIGN SUBMITTAL

LICENSED PROFESSIONAL ENGINEER
KEVIN RONALD JENSEN
90536
CIVIL
STATE OF CALIFORNIA

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

McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION
FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS
STANDARD SYMBOLS

DESIGNED K. JENSEN
DRAWN R. WOOD
CHECKED M. MCMILLEN
PROJECT DATE 06/22/22

DRAWING
G004

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\G004.dwg Plot date: Jun 24, 2022 10:51am, CAD User: wood

BOAT RAMP AND DRY HYDRANT HYDRAULIC CRITERIA (FT)					
DESCRIPTION	IRON GATE	JENNY PARK	FALL CREEK HATCHERY	FALL CREEK CONFLUENCE	PIONEER PARK WEST
ANTICIPATED CONSTRUCTION WATER LEVEL	2171.5	2334.5	2490.5	2328.9	3786.5
DESIGN LOW WATER LEVEL (OLW)	2171.5	2334.5	2490.5	2328.9	3786.5
DESIGN HIGH WATER LEVEL (OHW)	2172.9	2336.0	2494.0	2333.7	3787.5

NATIONAL FIRE PROTECTION ASSOCIATION DESIGN CRITERIA	
DRY HYDRANTS	
PIPE MATERAIL	SCHEDULE 40
MIN FLOW RATE (GPM)	1000.0
MIN DRY HYDRANT CLEARANCE (FT)	3
ACCESSABLIILITY	ALL-WEATHER
MIN HYDRANTS DIST FROM STRUCTURES (FT)	100.0
MIN DEPTH ABOVE STRAINER (FT)	2.0
NIN DEPTH BELOW STRAINER (FT)	1.0
BOAT RAMPS	
MIN ROADWAY WITH (FT)	12.0
MIN RADIUS OF CURVATURE AT BENDS (FT)	100.0
ACCESSIBILITY	ALL-WEATHER

SHEET NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING SURVEYED ELEVATIONS AND FOR FIELD-FITTING FACILITY COMPONENTS AS NEEDED.
2. CONTRACTOR IS RESPONSIBLE FOR DEFINING THE ORDINARY HIGH WATER AND ORDINARY LOW WATER ELEVATIONS.

REV	DATE	BY	DESCRIPTION
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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

DESIGN CRITERIA

DESIGNED K. JENSEN
DRAWN R. WOOD
CHECKED M. MCMILLEN
PROJECT DATE 06/22/22

DRAWING
G005

JOB NO: 000000

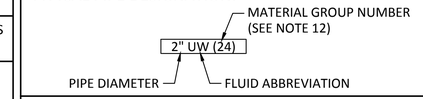
Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\G005.dwg Plot date: Jun 24, 2022 10:51am, CAD User: wood

FLUID ABBREVIATION	FUNCTION	ALLOWABLE PIPING MATERIAL GROUP NO. (SEE NOTE 1 AND 4)				FIELD TEST REQUIREMENTS (SEE NOTE 3 AND NOTE 4)		
	THIS LIST MAY INCLUDE FLUIDS NOT USED IN THIS PROJECT	EXPOSED PIPING (SEE NOTE 14)		BURIED PIPING (SEE NOTE 13)		MINIMUM TEST PRESSURE PSI	TEST MEDIUM	LEAKAGE ALLOWANCE (SEE NOTE 2)
	(* SEE NOTE 5)	3" DIA AND SMALLER	4" DIA AND LARGER	3" DIA AND SMALLER	4" DIA AND LARGER			
COMMONLY USED FUNCTIONS								
UW	UTILITY WATER (NOT-POTABLE)	16	16	16	16	125	WATER	(A)

PIPING MATERIAL SCHEDULE (SEE NOTE 1)

GROUP NO.	PIPE MATERIAL	FITTINGS / JOINTS	LININGS AND COATINGS (SEE NOTE 13)
16	POLYVINYL CHLORIDE, SCHEDULE 80, NORMAL IMPACT. ASTM D1785.	POLYVINYL CHLORIDE, SCHEDULE 80, NORMAL IMPACT, SOCKET SOLVENT WELD JOINTS, ASTM D2467 PER SECTION 40 23 22. (SOLVENT & GLUE SHALL BE COMPATIBLE WITH FLUID SERVICE)	NOT APPLICABLE

TYPICAL PIPE DESIGNATION:



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.

NOTE 2
LEAKAGE ALLOWANCE IS AS FOLLOWS
A. PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE.
B. 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.
C. PIPES SO DESIGNATED SHALL NOT SHOW A LEAKAGE OF MORE THAN 0.15 GALLON PER HOUR PER INCH OF DIAMETER PER 100 FEET OF PIPE.
D. PIPES SO DESIGNATED SHALL NOT SHOW A LOSS OF PRESSURE OF MORE THAN 5 PERCENT.
E. 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.

NOTE 4
NO SUBSTITUTIONS U.N.O. IN THE SPECIFICATIONS.

NOTE 5
PIPING GROUP FUNCTION SHOWN THUS * SHALL BE INSULATED PER SPECIFICATIONS.

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

NOTE 7
NOT APPLICABLE.

NOTE 8
NOT APPLICABLE.

NOTE 9
NOT APPLICABLE.

NOTE 10
NOT APPLICABLE.

NOTE 11
NOT APPLICABLE.

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

NOTE 13
FOR FULL PIPE LINING AND COATING REQUIREMENTS, SEE SPECIFICATIONS.

NOTE 14
EXPOSED OUTDOOR PIPING SHALL BE PAINTED IN ACCORDANCE WITH SPECIFICATIONS. COLORS TO BE SELECTED BY OWNER.

NOTE 15
NOT APPLICABLE.

NOTE 16
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. INTERNAL BEAD FROM BUTT WELDING SHALL BE REMOVED USING A DEBEADER FOR PIPES UP TO 20"Ø (INTERNAL). ABOVE 20"Ø INTERNAL BEAD SHALL BE REMOVED BY ENTERING THE PIPE.

NOTE 17
FOR HDPE PIPING THE SIZE OF PIPE SHOWN ON DRAWING CALL-OUTS SHALL BE THE NOMINAL PIPE DIAMETER. HDPE PIPE SHALL BE ACCORDING TO THE IRON PIPE SIZE (IPS) CONVENTION, AND THE PIPE WALL THICKNESS AND INNER DIAMETER SHALL BE PER DR RATING REQUIREMENT.

NOTE 18
ALL REFRIGERANT PIPING SHALL CONFORM TO SPECIFICATION 23 23 00 AND SHALL COMPLY WITH ASME B31.5, CHAPTER VI.

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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION
FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS
PIPING SCHEDULE

DESIGNED K. JENSEN
DRAWN R. WOOD
CHECKED M. MCMILLEN
PROJECT DATE 06/22/22

DRAWING
G006

EROSION AND SEDIMENT CONTROL NOTES - GENERAL:

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, OR ADJACENT PROPERTIES DURING ANY PHASE OF CONSTRUCTION OPERATIONS. SPECIAL ATTENTION SHALL BE GIVEN TO ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES NOTED BELOW.
   - B. THE GENERAL EROSION AND SEDIMENT CONTROL PLAN ON THE EC DRAWINGS IS PROVIDED TO AID THE CONTRACTOR IN DEVELOPING THE EROSION AND SEDIMENT CONTROL PLAN ACCORDING TO CONTRACTOR SCHEDULE AND PHASING OF THE PROJECT.
   - 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) OR OREGON DEPARTMENT OF TRANSPORTATION (ODOT) EROSION CONTROL MANUAL REQUIREMENTS, AS APPLICABLE.
   - F. CONTRACTOR SHALL DEVELOP A SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLAN THAT WILL BE ATTACHED TO THE SWPPP.

EROSION AND SEDIMENT CONTROL NOTES - BMP MEASURES:

1. 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.
2. CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PREVENT ACCUMULATION OF CONSTRUCTION WASTE AND LITTER ON-SITE.
3. CONTRACTOR SHALL INSTALL SILT FENCE AND/OR STRAW WATTLES AS INDICATED AND IN ANY ADDITIONAL LOCATIONS WHERE MATERIAL COULD LEAVE THE CONSTRUCTION SITE, AT THE CONTRACTOR'S EXPENSE.
4. THE SILT FENCE AND/OR STRAW WATTLES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES.
5. 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.
6. 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.
7. ALL TOP SOIL SHALL BE STRIPPED AND PLACED IN SEPARATE STOCKPILE. AFTER BANK RESTORATION TO EXIST GRADE, TOP SOIL SHALL BE PLACED AND RESEEDED.
8. CONTRACTOR SHALL HAVE ON-SITE AT ALL TIMES SPILL PREVENTION AND CONTROL MEASURES.
9. 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. EQUIPMENT FOR WORK INSIDE OF THE ORDINARY HIGH WATER MARK SHALL UTILIZE FOOD-GRADE HYDRAULIC FLUID.

EROSION AND SEDIMENT CONTROL NOTES - GRADING AND FINAL STABILIZATION:

1. CLEARING, GRUBBING, AND GROUND DISTURBING ACTIVITIES SHALL BE CONFINED TO WITHIN THE 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.
2. DURING CONSTRUCTION, PROVIDE POSITIVE DRAINAGE AWAY FROM FACILITIES.
3. 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.
4. CONTRACTOR SHALL REGRADE DISTURBED SLOPES TO NEAR EXIST CONDITION AS APPROVED BY THE OWNER.
5. 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 35 30.

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KLAMATH RIVER RENEWAL CORPORATION

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FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

EROSION AND SEDIMENT CONTROL STANDARDS NOTES

DESIGNED K. JENSEN
DRAWN R. WOOD
CHECKED M. MCMILLEN
PROJECT DATE 06/22/22

DRAWING
EC001

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\EC001.dwg Plot date: Jun 24, 2022 10:51am, CAD User: wood

SILT FENCE DETAIL

SCALE: NTS

EC101

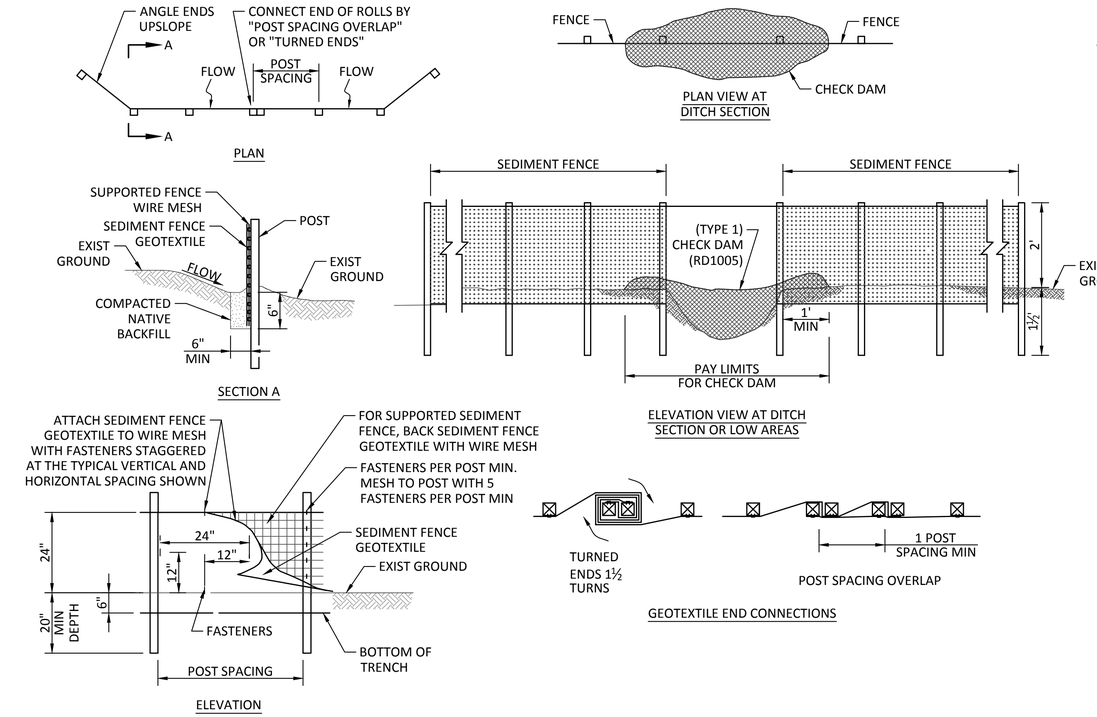


TABLE 1
FENCE SPACING FOR GENERAL APPLICATION

INSTALL PARALLEL ALONG CONTOURS AS FOLLOWS	
GRADE	MAXIMUM SPACING ON GRADE
GRADE ≤ 10%	300'
10% ≤ GRADE < 15%	150'
15% ≤ GRADE < 20%	100'
20% ≤ GRADE < 30%	50'
30% ≤ GRADE	25'

TABLE 2

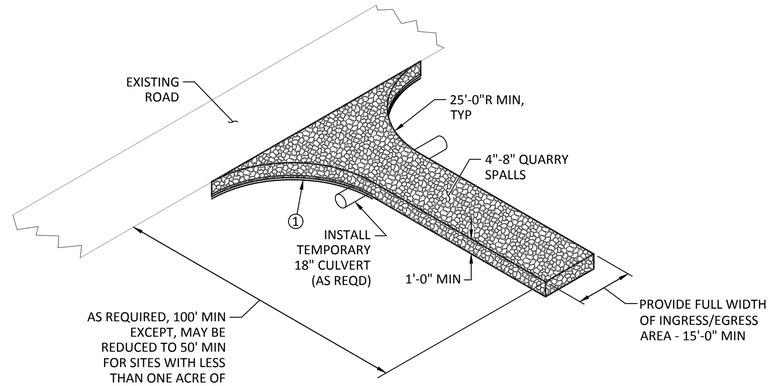
POST SPACING	
4'	SUPPORTED SEDIMENT FENCE
6'	UNSUPPORTED SEDIMENT FENCE WITH GEOTEXTILE ELONGATION * LESS THAN 50%
4'	UNSUPPORTED SEDIMENT FENCE WITH GEOTEXTILE ELONGATION * MORE THAN 50%

* GEOTEXTILE GRAB ELONGATION VALUE AS DOCUMENTED BY "LEVEL B" MANUFACTURER'S DOCUMENTATION (SEE STANDARD SPECIFICATIONS).

TEMPORARY ENTRANCE

SCALE: NTS

EC103

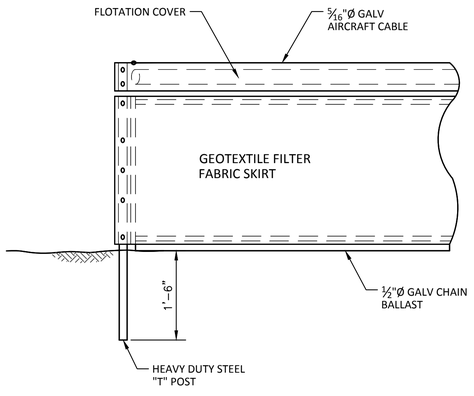


① PLACE CONSTRUCTION GEOTEXTILE FOR SOIL STABILIZATION AND A MINIMUM OF 0.15' CRUSHED ROCK UNDER THE SPALLS, FROM THE EDGE OF THE EXISTING ROADWAY TO THE RADIUS RETURNS, OR AS DIRECTED BY THE ENGINEER.

TURBIDITY CURTAIN DETAIL

SCALE: NTS

EC105

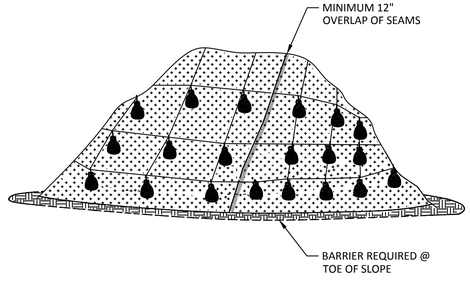


NOTE:
1. TURBIDITY BLANKET TO BE HANES GEO COMPONENTS OR EQUAL.

PLASTIC SHEETING DETAIL

SCALE: NTS

EC106

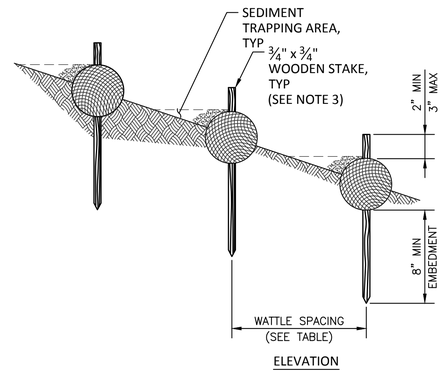


NOTES:
1. MINIMUM 12" OVERLAP OF ALL SEAMS REQUIRED.
2. BARRIER REQUIRED @ TOE OF STOCK PILE.
3. COVERING MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM 10' GRID SPACING IN ALL DIRECTIONS.

WATTLE DETAIL

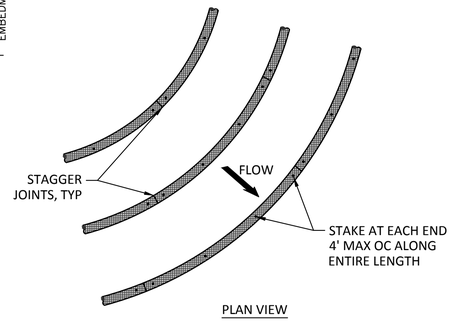
SCALE: NTS

EC107



WATTLE SPACING TABLE	
SLOPE	MAXIMUM SPACING
1:1	10 FEET
2:1	20 FEET
3:1	30 FEET
4:1	40 FEET
>4:1	80 FEET

NOTES
1. INSTALL WATTLES ALONG CONTOURS. SEE TABLE FOR SPACING.
2. WATTLES SHALL BE INSPECTED REGULARLY, AND IMMEDIATELY AFTER A RUNOFF PRODUCING RAINFALL, TO ENSURE THEY REMAIN THOROUGHLY ENTRENCHED AND IN CONTACT WITH THE SOIL.
3. LIVE STAKES MAY BE USED FOR PERMANENT INSTALLATIONS.
4. INSTALL WATTLES SNUGLY INTO THE TRENCH. ABUT ADJACENT WATTLES TIGHTLY, END TO END, WITHOUT OVERLAPPING THE ENDS.
5. PILOT HOLES MAY BE DRIVEN THROUGH THE WATTLE AND INTO THE SOIL, WHEN SOIL CONDITIONS REQUIRE.
6. INSTALL AT TOE OF SLOPES. SLOPES GREATER THAN 15' IN LENGTH SHALL HAVE A WATTLE INSTALLED MID SLOPE.



REV	DATE	BY	DESCRIPTION
A	06/22/22	KRJ	100% DESIGN SUBMITTAL

LICENSED PROFESSIONAL ENGINEER KEVIN RONALD JENSEN 90536 CIVIL STATE OF CALIFORNIA

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

McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

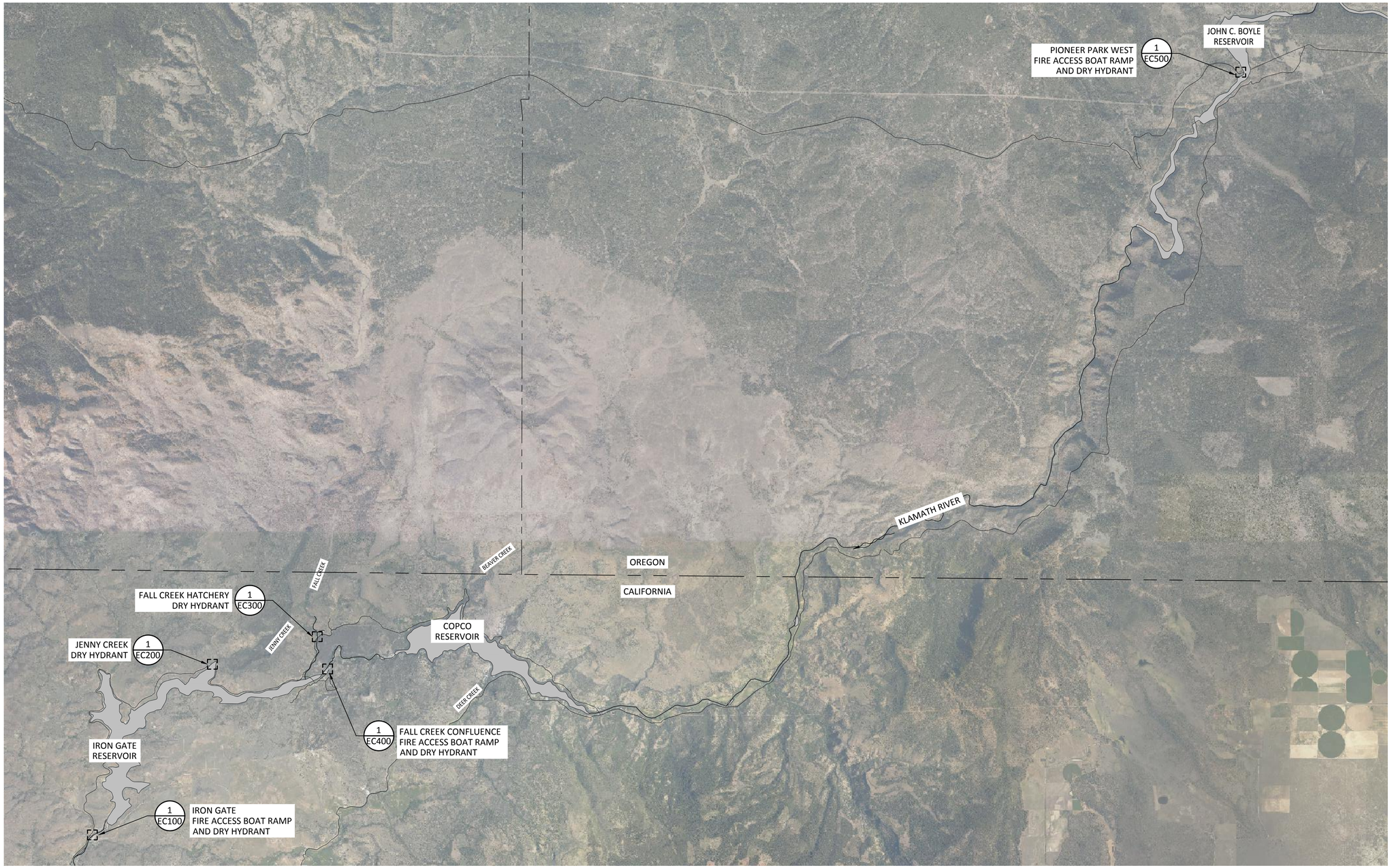
EROSION AND SEDIMENT CONTROL STANDARD DETAILS

DESIGNED K. JENSEN
DRAWN R. WOOD
CHECKED M. MCMILLEN
PROJECT DATE 06/22/22

DRAWING
EC002

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\EC002.dwg Plot date: Jun 24, 2022 10:51am, CAD User: wood



EROSION AND SEDIMENT CONTROL KEY PLAN

SCALE: 1"= 5000'

0" 500' 10000'

1
-

N

REV	DATE	BY	DESCRIPTION
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LICENSED PROFESSIONAL ENGINEER
KEVIN RONALD JENSEN
90536
CIVIL
STATE OF CALIFORNIA

WARNING

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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

EROSION AND SEDIMENT CONTROL KEY PLAN

DESIGNED K. JENSEN

DRAWN R. WOOD

CHECKED M. MCMILLEN

PROJECT DATE 06/22/22

DRAWING

EC003

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\EC003.dwg Plot date: Jun 24, 2022 10:52am, CAD User: wood

SHEET NOTES:

1. CONTRACTOR SHALL SUBMIT A PROPOSED DEWATERING PLAN FOR OWNER APPROVAL PRIOR TO IMPLEMENTATION. DEWATERING PLAN SHALL INCLUDE DRAWINGS OF PROPOSED DEWATERING CONFIGURATION, AND DESCRIPTION OF INSTALLATION AND REMOVAL SEQUENCING.
2. DEWATERING IS REQUIRED FOR INSTALLATION OF BOAT RAMP SUBBASE AND RAIL SYSTEM, BUT NOT FOR PRECAST PLANK INSTALLATION.
3. CONTRACTOR TO INSTALL TEMPORARY FLOATING TURBIDITY CURTAIN SURROUNDING THE PERIMETER OF IN-WATER WORK ACTIVITIES. CONTRACTOR SHALL SUBMIT FLOATING TURBIDITY CURTAIN SHOP DRAWINGS AND INSTALLATION PLAN FOR OWNER APPROVAL PRIOR TO IMPLEMENTATION.
4. CONTRACTOR SHALL CLEAR AND GRUB THE SITE PER THE CIVIL SPECIFICATIONS TO ENSURE ACCESS TO THE FACILITY AND TO PROVIDE AT LEAST 20 FEET OF SPACE AROUND THE HYDRANT LOCATION.

EROSION AND SEDIMENT CONTROL PLAN IRON GATE

SCALE: 1"= 20'

0" 20' 40'

1 C005

REV	DATE	BY	DESCRIPTION
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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

EROSION AND SEDIMENT CONTROL PLAN IRON GATE

DESIGNED K. JENSEN

DRAWN R. WOOD

CHECKED M. MCMILLEN

PROJECT DATE 06/22/22

DRAWING

EC100

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\EC100.dwg Plot date: Jun 24, 2022 11:10am, CAD User: wood

EROSION AND SEDIMENT CONTROL PLAN JENNY CREEK

SCALE: 1"= 40'

0" 40' 80'

1 / C005

N

SHEET NOTES:

1. INSTALLATION OF HYDRANT PIPE AND UNDERWATER STRAINER SUPPORT SHALL INCLUDE, AT A MINIMUM, TEMPORARY USE OF A FLOATING TURBIDITY CURTAIN TO MITIGATE SEDIMENT SUSPENSION IN SURFACE WATERS.
2. NO DEWATERING IS ANTICIPATED FOR PLACEMENT OF HYDRANT PIPE AND UNDERWATER STRAINER SUPPORT. SHOULD PERMIT REQUIREMENTS NECESSITATE LOCALIZED DEWATERING FOR INSTALLATION OF HYDRANT PIPE AND STRAINER SUPPORT, CONTRACTOR SHALL SUBMIT A PROPOSED DEWATERING PLAN FOR OWNER APPROVAL PRIOR TO IMPLEMENTATION. DEWATERING PLAN SHALL INCLUDE DRAWINGS OF PROPOSED DEWATERING CONFIGURATION, AND DESCRIPTION OF INSTALLATION AND REMOVAL SEQUENCING.
3. CONTRACTOR SHALL CLEAR AND GRUB THE SITE PER THE CIVIL SPECIFICATIONS TO ENSURE ACCESS TO THE FACILITY AND TO PROVIDE AT LEAST 20 FEET OF SPACE AROUND THE HYDRANT LOCATION.

REV	DATE	BY	DESCRIPTION
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LICENSED PROFESSIONAL ENGINEER
KEVIN RONALD JENSEN
90536
CIVIL
STATE OF CALIFORNIA

WARNING
0 1/2 1
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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

EROSION AND SEDIMENT CONTROL PLAN
JENNY CREEK

DESIGNED K. JENSEN
DRAWN R. WOOD
CHECKED M. MCMILLEN
PROJECT DATE 06/22/22

DRAWING
EC200

JOB NO: 1000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\EC200.dwg Plot date: Jun 24, 2022 10:52am, CAD User: wood

EROSION AND SEDIMENT CONTROL PLAN FALL CREEK HATCHERY

SCALE: 1"= 20'

0" 20' 40'

1 / C005

N

SHEET NOTES:

1. INSTALLATION OF HYDRANT PIPE AND UNDERWATER STRAINER SUPPORT SHALL INCLUDE, AT A MINIMUM, TEMPORARY USE OF A FLOATING TURBIDITY CURTAIN TO MITIGATE SEDIMENT SUSPENSION IN SURFACE WATERS.
2. NO DEWATERING IS ANTICIPATED FOR PLACEMENT OF HYDRANT PIPE AND UNDERWATER STRAINER SUPPORT. SHOULD PERMIT REQUIREMENTS NECESSITATE LOCALIZED DEWATERING FOR INSTALLATION OF HYDRANT PIPE AND STRAINER SUPPORT, CONTRACTOR SHALL SUBMIT A PROPOSED DEWATERING PLAN FOR OWNER APPROVAL PRIOR TO IMPLEMENTATION. DEWATERING PLAN SHALL INCLUDE DRAWINGS OF PROPOSED DEWATERING CONFIGURATION, AND DESCRIPTION OF INSTALLATION AND REMOVAL SEQUENCING.
3. CONTRACTOR SHALL CLEAR AND GRUB THE SITE PER THE CIVIL SPECIFICATIONS TO ENSURE ACCESS TO THE FACILITY AND TO PROVIDE AT LEAST 20 FEET OF SPACE AROUND THE HYDRANT LOCATION.

REV	DATE	BY	DESCRIPTION
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LICENSED PROFESSIONAL ENGINEER
KEVIN RONALD JENSEN
90536
CIVIL
STATE OF CALIFORNIA

WARNING

0 1/2 1

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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

EROSION AND SEDIMENT CONTROL PLAN
FALL CREEK HATCHERY

DESIGNED K. JENSEN

DRAWN R. WOOD

CHECKED M. MCMILLEN

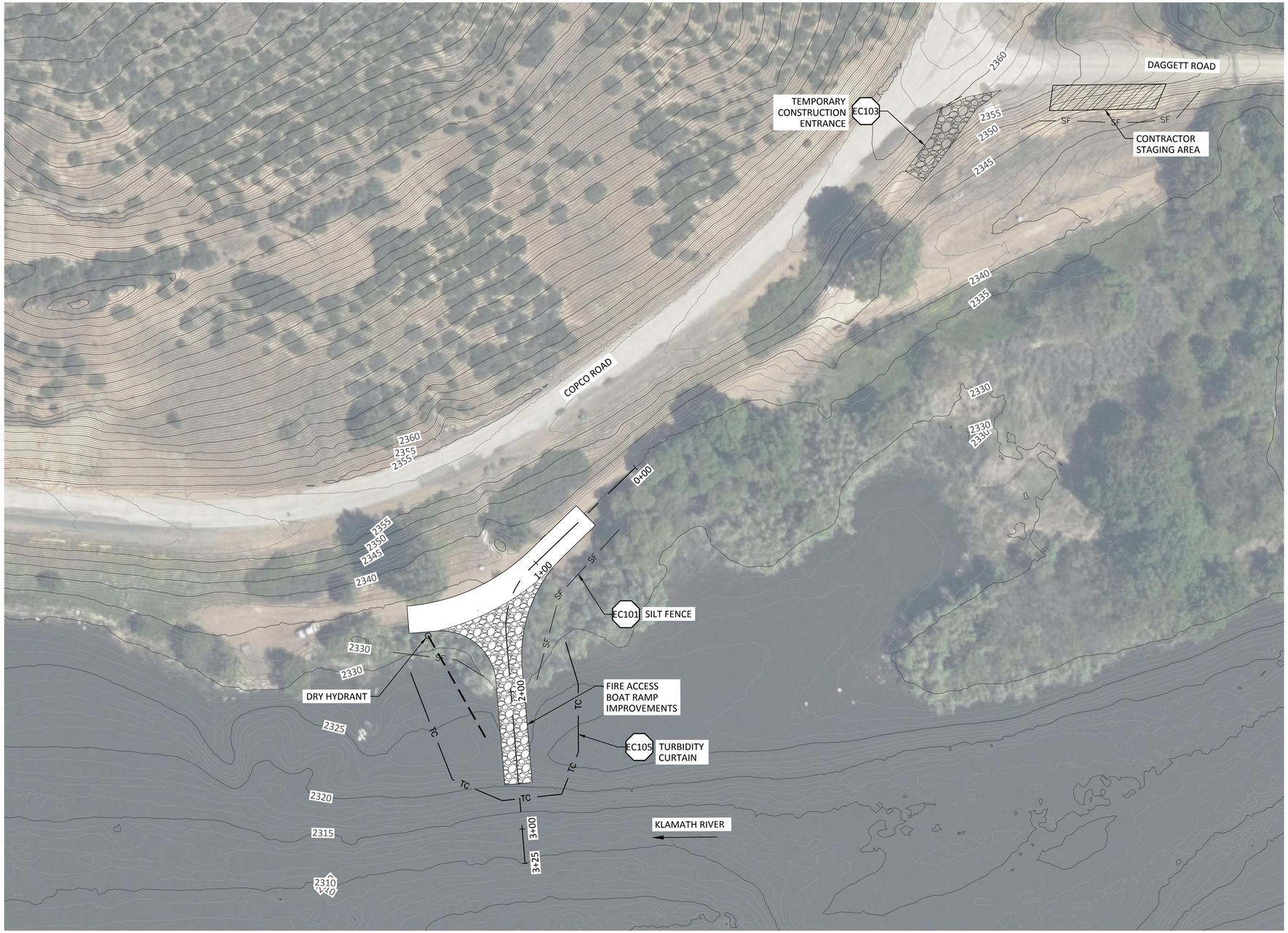
PROJECT DATE 06/22/22

DRAWING

EC300

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\EC300.dwg Plot date: Jun 24, 2022 10:52am, CAD User: wood



SHEET NOTES:

1. CONTRACTOR SHALL SUBMIT A PROPOSED DEWATERING PLAN FOR OWNER APPROVAL PRIOR TO IMPLEMENTATION. DEWATERING PLAN SHALL INCLUDE DRAWINGS OF PROPOSED DEWATERING CONFIGURATION, AND DESCRIPTION OF INSTALLATION AND REMOVAL SEQUENCING.
2. CONTRACTOR SHALL CLEAR AND GRUB THE SITE PER THE CIVIL SPECIFICATIONS TO ENSURE ACCESS TO THE FACILITY AND TO PROVIDE AT LEAST 20 FEET OF SPACE AROUND THE HYDRANT LOCATION.

EROSION AND SEDIMENT CONTROL PLAN FALL CREEK CONFLUENCE

SCALE: 1"= 40'

0' 40' 80'

1 / C102

REV	DATE	BY	DESCRIPTION
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LICENSED PROFESSIONAL ENGINEER KEVIN RONALD JENSEN 90536 CIVIL STATE OF CALIFORNIA

WARNING

0 1/2 1

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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

EROSION AND SEDIMENT CONTROL PLAN
FALL CREEK CONFLUENCE

DESIGNED K. JENSEN

DRAWN R. WOOD

CHECKED M. MCMILLEN

PROJECT DATE 06/22/22

DRAWING

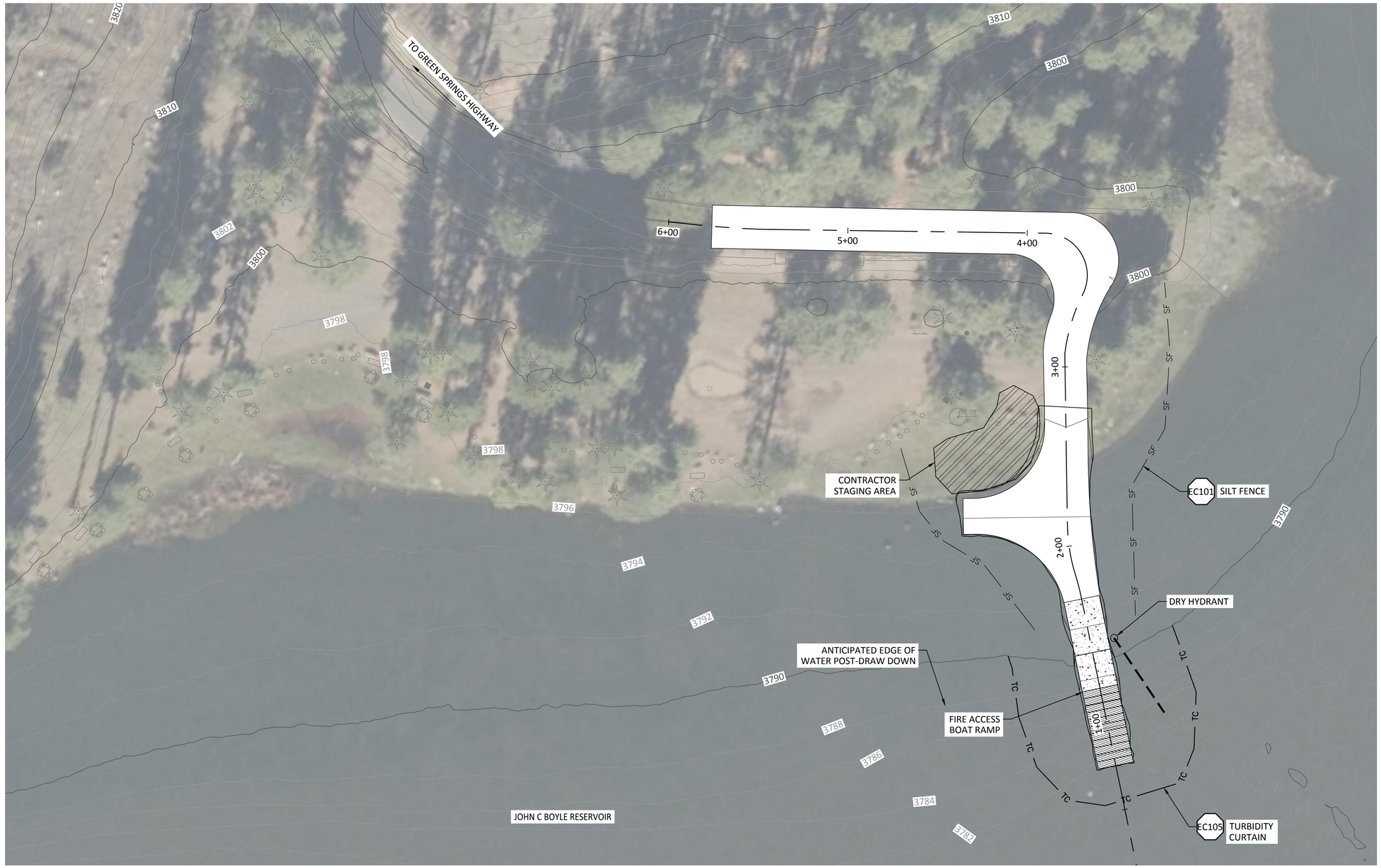
EC400

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\EC400.dwg Plot date: Jun 24, 2022 10:52am, CAD User: wood

SHEET NOTES:

1. CONTRACTOR SHALL SUBMIT A PROPOSED DEWATERING PLAN FOR OWNER APPROVAL PRIOR TO IMPLEMENTATION. DEWATERING PLAN SHALL INCLUDE DRAWINGS OF PROPOSED DEWATERING CONFIGURATION, AND DESCRIPTION OF INSTALLATION AND REMOVAL SEQUENCING.
2. DEWATERING IS REQUIRED FOR INSTALLATION OF BOAT RAMP SUBBASE AND RAIL SYSTEM, BUT NOT FOR PRECAST PLANK INSTALLATION.
3. CONTRACTOR TO INSTALL TEMPORARY FLOATING TURBIDITY CURTAIN SURROUNDING THE PERIMETER OF IN-WATER WORK ACTIVITIES. CONTRACTOR SHALL SUBMIT FLOATING TURBIDITY CURTAIN SHOP DRAWINGS AND INSTALLATION PLAN FOR OWNER APPROVAL PRIOR TO IMPLEMENTATION.
4. CONTRACTOR SHALL CLEAR AND GRUB THE SITE PER THE CIVIL SPECIFICATIONS TO ENSURE ACCESS TO THE FACILITY AND TO PROVIDE AT LEAST 20 FEET OF SPACE AROUND THE HYDRANT LOCATION.



EROSION AND SEDIMENT CONTROL PLAN PIONEER PARK WEST

SCALE: 1"= 30'

0" 30' 60'

1 C005

REV	DATE	BY	DESCRIPTION
A	06/22/22	KRJ	100% DESIGN SUBMITTAL

REGISTERED PROFESSIONAL ENGINEER 16047 OREGON JULY 21, 1992 MORTON D. McMILLEN EXPIRATION DATE: 12/31/

WARNING

0 1/2 1

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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

EROSION AND SEDIMENT CONTROL PLAN
PIONEER PARK WEST

DESIGNED K. JENSEN

DRAWN R. WOOD

CHECKED M. MCMILLEN

PROJECT DATE 06/22/22

DRAWING

EC500

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\EC500.dwg Plot date: Jun 24, 2022 10:53am, CAD User: wood

GENERAL PROJECT NOTES:

1. ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.
2. SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
3. CONTRACTOR SHALL REPAIR ALL EXIST SURFACE, UTILITIES, BUILDINGS, AND FOUNDATIONS IMPACTED BY CONSTRUCTION, WHICH ARE NOT INDICATED TO BE DEMOLISHED.
4. CONTRACTOR SHALL KEEP ALL CONSTRUCTION WITHIN THE WORK BOUNDARIES DEFINED FOR THIS PROJECT AS SHOWN. THIS INCLUDES, BUT IS NOT LIMITED TO, VEHICLES AND EQUIPMENT, LIMITS OF TRENCH EXCAVATION, STOCKPILED EXCAVATED MATERIAL, BACKFILL MATERIAL, AND PIPE MATERIAL.
5. SEE SPECIFICATION 31 00 00 FOR AGGREGATE MATERIAL TYPES.

GENERAL CONSTRUCTION NOTES:

1. ALL MATERIAL FURNISHED ON, OR FOR THE PROJECT, MUST MEET THE MINIMUM REQUIREMENTS OF APPROVING AGENCIES. AT THE REQUEST OF THE APPROVING AGENCY OR THE DESIGN ENGINEER, CONTRACTORS SHALL FURNISH PROOF THAT ALL MATERIALS INSTALLED ON THIS PROJECT MEET THE SPECIFICATION REQUIREMENTS SET FORTH IN THE PROJECT SPECIFICATIONS.
2. ANY DEVIATION FROM THE APPROVED PLANS AND SPECIFICATIONS MUST HAVE DESIGN ENGINEER AND OWNER APPROVAL IN WRITING PRIOR TO CONSTRUCTION.
3. ALL DISTURBED SURFACES SHALL BE RETURNED TO ORIGINAL OR BETTER CONDITIONS.

GENERAL PIPING AND UTILITY NOTES:

1. EXIST BASE MAP MAY CONTAIN ERRORS. CONTRACTOR TO VERIFY LOCATION OF EXIST PIPES, STRUCTURES, AND OVERHEAD UTILITIES PRIOR TO THE START OF CONSTRUCTION OR THE SUBMITTAL OF SHOP DRAWINGS.
2. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES TO REMAIN.
3. THE CONTRACTOR SHALL CONTACT THE UTILITY AGENCIES FOR FIELD LOCATION OF UTILITIES, AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 24" COVER ON TOP OF ALL PIPELINES UNLESS OTHERWISE INDICATED OR DIRECTED.
5. ELEVATIONS SHOWN ARE TO THE INVERT (FLOWLINE) OF PIPES, UNLESS OTHERWISE NOTED.
6. STRAIGHT SLOPES SHALL BE MAINTAINED BETWEEN INVERTS SHOWN OR SPECIFIED.
7. ALL PIPE TRENCHING AND BACKFILL SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
8. ALL BUILDING COORDINATES ARE TO OUTSIDE CORNER OF BUILDING STEM WALL UNLESS OTHERWISE NOTED.
9. CONC THRUST BLOCKS PER DETAIL C605 SHALL BE PLACED ON ALL BENDS AND TEES.
10. ALL SLEEVE COUPLINGS ON YARD PIPING SHALL BE UNRESTRAINED, UNLESS NOTED OTHERWISE.

REV	DATE	BY	DESCRIPTION
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LICENSED PROFESSIONAL ENGINEER
KEVIN RONALD JENSEN
90536
CIVIL
STATE OF CALIFORNIA

WARNING
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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

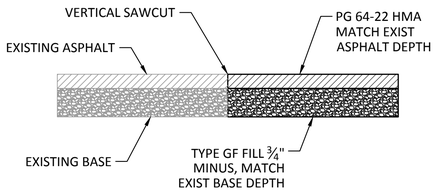
GENERAL CIVIL NOTES

DESIGNED K. JENSEN
DRAWN R. WOOD
CHECKED M. MCMILLEN
PROJECT DATE 06/22/22

DRAWING
GC001

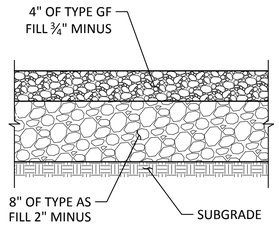
JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\GC001.dwg Plot date: Jun 24, 2022 10:53am, CAD User: wood

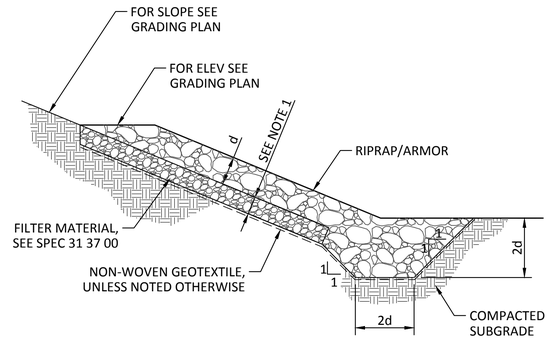


NOTES:
1. AFTER ASPHALT REPLACEMENT, RESTORE LANE STRIPING, AS REQUIRED, WITH PAVEMENT MARKING PAINT PER SPECIFICATION 32 11 13.

ASPHALT REPAIR
C134
SCALE: NTS



GRAVEL SURFACING
C135
SCALE: NTS



NOTES:
1. RIPRAP LAYER THICKNESS, d, TO BE THE LARGER OF (A) 2X THE MEDIAN ROCK DIAMETER AND (B) THE MAX ROCK DIAMETER. FILTER MATERIAL TO BE 12" FOR TYPE 1 FILTER MATERIAL, AND 6" FOR TYPE 2 FILTER MATERIAL, SEE SPEC 31 37 00.
2. FOR RIPRAP ARMOR AND BEDDING SIZE, SEE INDICATED RIPRAP TYPE ON PLANS AND DEFINITIONS IN SPEC 31 37 00.

RIPRAP & ARMOR PROTECTION
C202
SCALE: NTS

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KEVIN RONALD JENSEN
90536
CIVIL
STATE OF CALIFORNIA

WARNING
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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION
FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

CIVIL STANDARD DETAILS 1

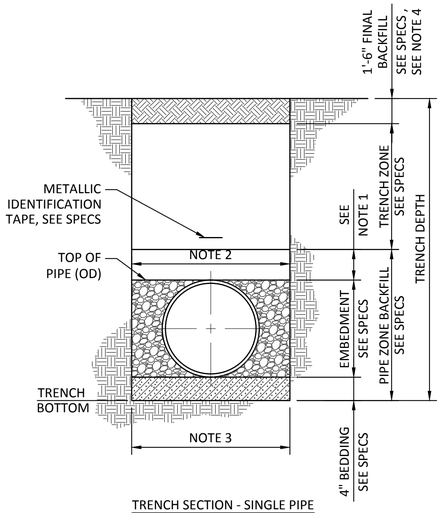
DESIGNED K. JENSEN
DRAWN R. WOOD
CHECKED M. MCMILLEN
PROJECT DATE 06/22/22

DRAWING
GC002

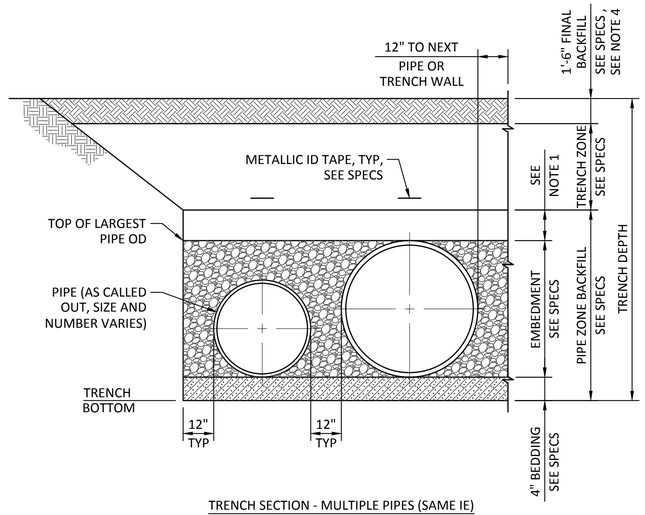
JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\GC002.dwg Plot date: Jun 24, 2022 10:53am, CAD User: wood

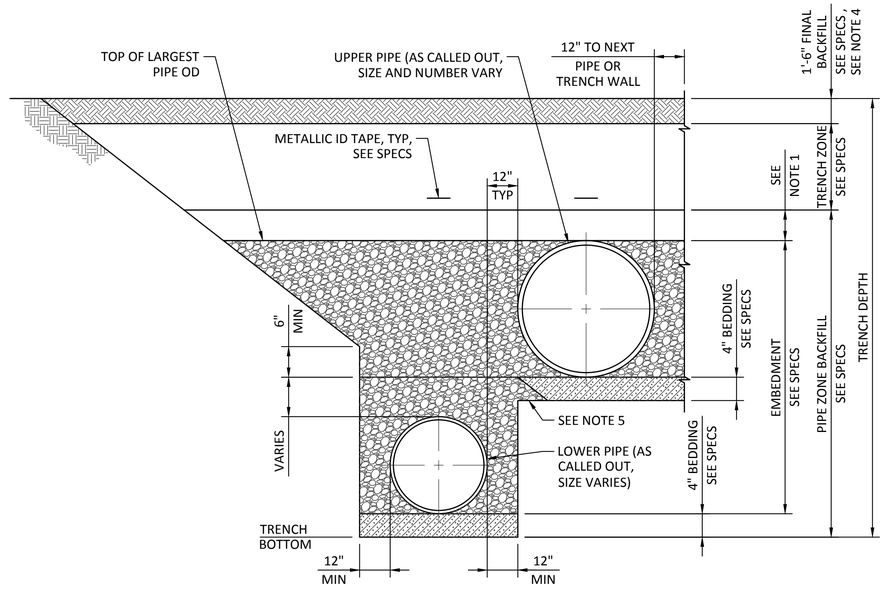
A. FLEXIBLE PIPE REFERS TO ALL STEEL, DUCTILE-IRON, AND PLASTIC PIPES.
B. TYPICAL TRENCH SECTIONS ARE TO BE USED ONLY WHERE STABLE, COMPACT SOIL CONDITIONS EXIST. IF BOULDERS OR LARGE OBSTRUCTIONS ARE ENCOUNTERED, TRENCH SECTIONS MAY BE DEEPER OR WIDER THAN SHOWN. THE ENGINEER SHALL BE ADVISED SHOULD THIS OCCUR.
C. 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.
D. PROTECTIVE SYSTEMS SHALL BE DESIGNED AND BUILT IN ACCORDANCE WITH THE APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS.
E. SUPPORTING DOCUMENTATION SHALL BE SUBMITTED TO THE ENGINEER REGARDING PIPE DESIGN AND COMPLIANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS.
F. 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.
G. 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.
H. IF OVER-EXCAVATION DUE TO POOR FOUNDATION MATERIAL IS ORDERED BY THE ENGINEER, THE BACKFILL MATERIAL SHALL BE ACCORDING TO EARTHWORK SPECIFICATION 31 00 00.
I. 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.
J. ALL PIPE BEDDING, PIPE ZONE BACKFILL, AND TRENCH ZONE BACKFILL MATERIAL TYPES AND COMPACTION REQUIREMENTS ARE INDICATED IN SPECIFICATION 31 00 00.



TRENCH SECTION - SINGLE PIPE



TRENCH SECTION - MULTIPLE PIPES (SAME IE)

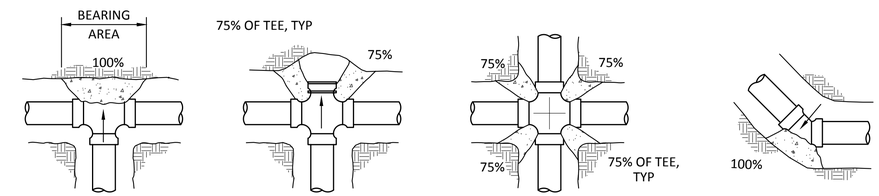


TRENCH SECTION - MULTIPLE PIPES (BENCHED)

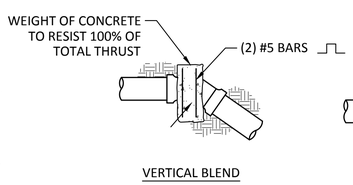
NOTES:
1. 6" MIN FOR PIPE DIAMETER < 24" LESS THAN OR EQUAL TO 24".
2. MAX TRENCH WIDTH @ TOP OF PIPE:
   O.D. + 36" FOR 18" & LARGER PIPE O.D.
   O.D. + 24" FOR LESS THAN 18" PIPE O.D.
3. MIN TRENCH BOTTOM WIDTH =
   O.D. + 24" FOR MECHANICAL COMPACTION
4. WHERE PIPES ARE UNDER GRAVEL ROAD SURFACING OR ASPHALT REPAIR, FINAL BACKFILL SHALL BE TO 18" BELOW THE ROAD SUBGRADE. PLACE FILL PER SPECIFICATIONS AND TOP WITH ROAD SURFACING PER DETAIL C134 OR C135, PER LOCATION.
5. CONSTRUCT LOWER PIPE TRENCH TO 12" MIN. EITHER SIDE OF LOWER PIPE AND UP TO INVERT ELEVATION OF UPPER PIPE. THEN PLACE BEDDING FOR UPPER PIPE, AND CONSTRUCT UPPER PIPE TRENCH. UPPER PIPE TRENCH BEDDING NOT TO INFRINGE UPON EMBEDMENT OF LOWER PIPE TO 12" EITHER SIDE.

TRENCH SECTION FLEXIBLE PIPE

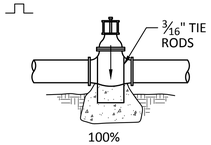
SCALE: NTS



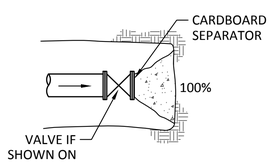
NOTE:
FIGURE (100%) AT THRUST BLOCK INDICATES PERCENT OF TOTAL THRUST TO BE APPLIED FOR BEARING AREA.



VERTICAL BLEND



VALVE



DEAD-END

THRUST PER PSI OF WATER PRESSURE AT VARIOUS FITTINGS						
PIPE SIZE	11.25° BEND	22.5° BEND	30° BEND	45° BEND	90° BEND	DEAD END / TEE
4	3	7	9	13	24	24
6	8	15	20	29	54	54
8	13	26	35	52	95	95
10	21	41	55	81	150	150
12	29	59	78	115	213	213
14	36	71	94	139	257	257
16	47	93	123	182	337	337
18	59	118	156	231	427	427
20	73	146	194	286	529	529
24	106	211	280	414	764	764

EXAMPLE:
8-INCH 90° ELBOW, PRESSURE = 200 PSI
FROM TABLE: THRUST = 95x200 = 19,000 LB
ASSUME BEARING STRENGTH OF SOIL = 2000 PSF

$\frac{19{,}000}{2000}$ =9.5 SQ FT= BEARING AREA REQUIRED FOR THRUST BLOCK

NOTES:
1. IN USING THE ABOVE TABLES, USE THE MAXIMUM INTERNAL PRESSURE ANTICIPATED (i.e. HYDROSTATIC TEST PRESSURE).
2. SEE SOILS REPORT FOR BEARING STRENGTH OF SOIL IN THE ABSENCE OF A SOILS REPORT AN AVERAGE SOIL (SPADABLE MEDIUM CLAY) CAN BE ASSUMED TO HAVE A BEARING STRENGTH OF 2000 PSF.
3. USE LIGHTWEIGHT CONCRETE FOR HILL THRUST BLOCK. CONCRETE FOR THRUST BLOCKS TO BE 2000 PSI.
4. THRUST BLOCKS SHALL BE PLACED ON ALL PRESSURE PIPE BENDS AND TEES. PRESSURE PIPES INCLUDE ALL SUPPLY LINES, AND A PORTION OF THE DRAIN LINE, SO INDICATED ON THE PLANS.

CONCRETE THRUST BLOCKS

SCALE: NTS

REV	DATE	BY	DESCRIPTION
A	06/22/22	KRJ	100% DESIGN SUBMITTAL

LICENSED PROFESSIONAL ENGINEER · KEVIN RONALD JENSEN · 90536 · CIVIL · STATE OF CALIFORNIA

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

McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION
FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS
CIVIL STANDARD DETAILS 2

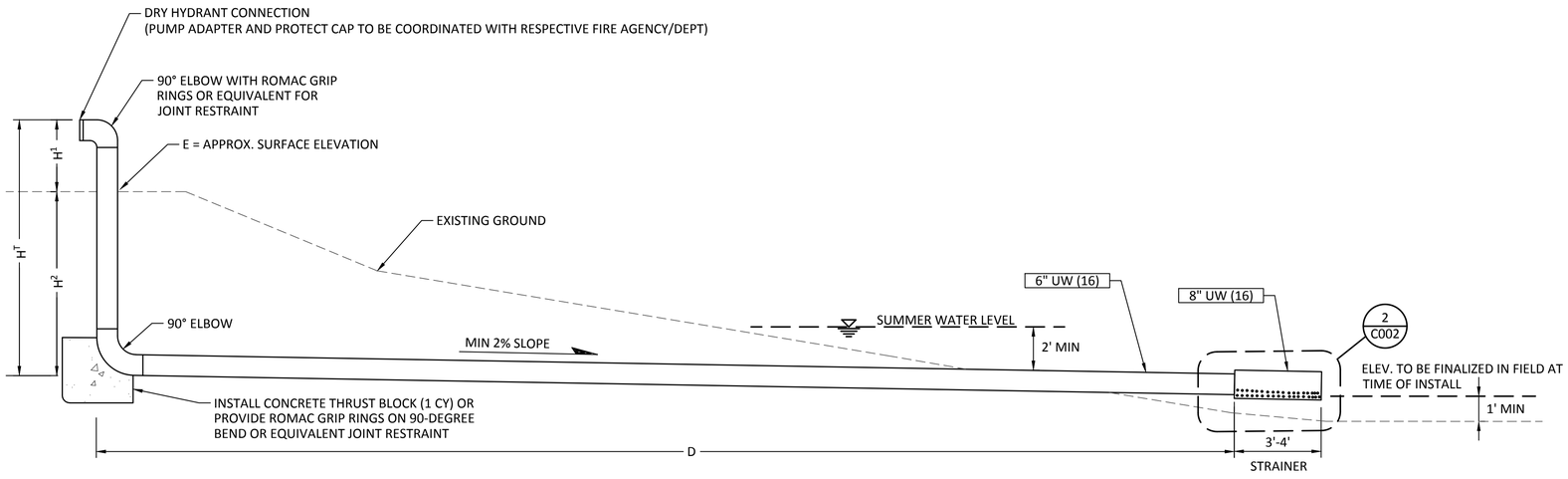
DESIGNED K. JENSEN
DRAWN R. WOOD
CHECKED M. MCMILLEN
PROJECT DATE 06/22/22

DRAWING
GC003

C601
C605

JOB NO: 1000000
Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\GC003.dwg Plot date: Jun 24, 2022 10:53am, CAD User: wood

DRY HYDRANT SCHEDULE					
SITE	H^1 = HEIGHT GROUND TO CONNECTION (FT)	H^2 = HEIGHT ELBOW TO GROUND (FT)	H^T = TOTAL HEIGHT (FT)	D = HORIZONTAL DISTANCE - ELBOW TO STRAINER (FT)	NOTES
IRON GATE	3.0	2.6	5.6	46.5	LOCATE ON RIVER RIGHT DOWNSTREAM OF RAMP
JENNY CREEK	3.0	2.8	5.8	112.0	EXCAVATE INTO RIVER-LEFT BANK
FALL CREEK HATCHERY	3.0	5.3	8.3	52.0	LOCATE ON RIVER-RIGHT UPSTREAM OF EXISTING BRIDGE
FALL CREEK CONFLUENCE	3.0	6.9	9.9	78.0	LOCATE ON RIVER-RIGHT AT EXISTING BOAT RAMP
PIONEER PARK WEST	3.0	6.0	9.0	50.0	LOCATE ON RIVER-RIGHT IN EXISTING RESERVOIR



DRY HYDRANT TYPICAL DETAIL

SCALE: NTS

1
-

REV	DATE	BY	DESCRIPTION
A	06/22/22	KRJ	100% DESIGN SUBMITTAL

LICENSED PROFESSIONAL ENGINEER
KELVIN RONALD JENSEN
90536
CIVIL
STATE OF CALIFORNIA

WARNING
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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

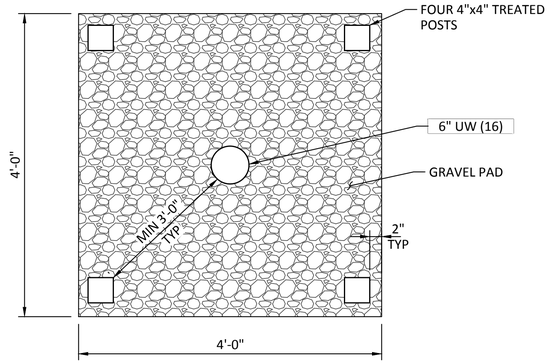
DRY HYDRANT
TYPICAL DETAILS 1

DESIGNED K. JENSEN
DRAWN R. WOOD
CHECKED M. MCMILLEN
PROJECT DATE 06/22/22

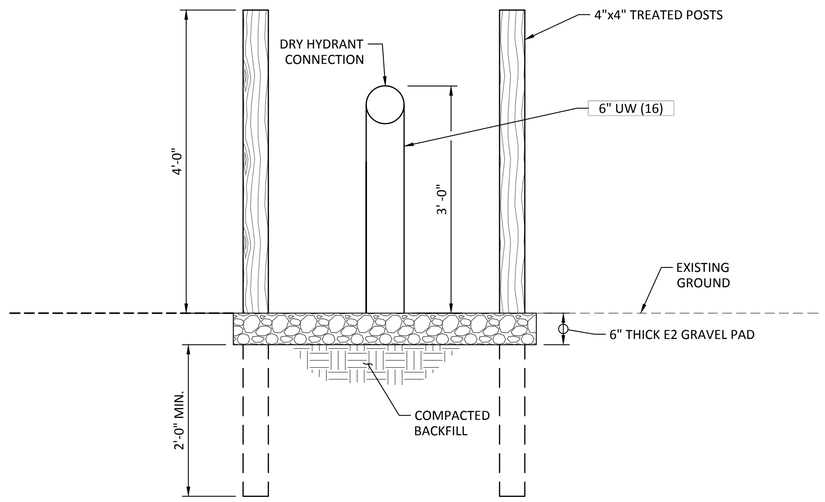
DRAWING
C001

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\C001.dwg Plot date: Jun 24, 2022 10:53am, CAD User: wood



PLAN VIEW

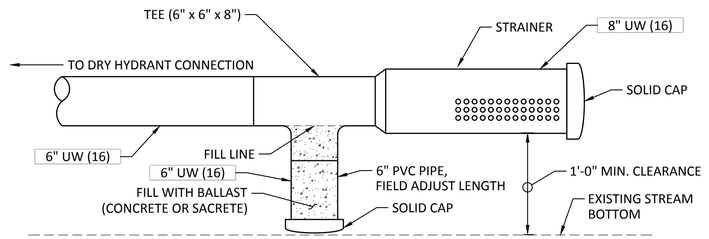


SIDE VIEW

PROTECTIVE BASE PAD DETAIL

SCALE: NTS

2 / -



PIPE SUPPORT DETAIL

SCALE: NTS

2 / -

REV	DATE	BY	DESCRIPTION
A	06/22/22	KRJ	100% DESIGN SUBMITTAL

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WARNING

0 1/2 1

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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

DRY HYDRANT
TYPICAL DETAILS 2

DESIGNED K. JENSEN

DRAWN R. WOOD

CHECKED M. MCMILLEN

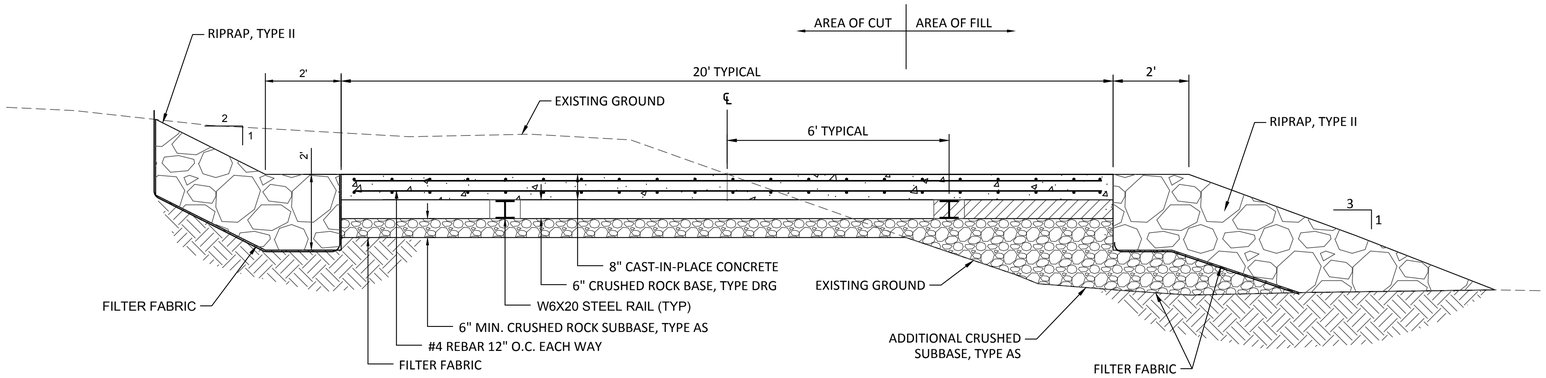
PROJECT DATE 06/22/22

DRAWING

C002

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\C002.dwg Plot date: Jun 24, 2022 10:53am, CAD User: wood



PRECAST CONCRETE PLANK RAMP SECTION IN CUT/FILL

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

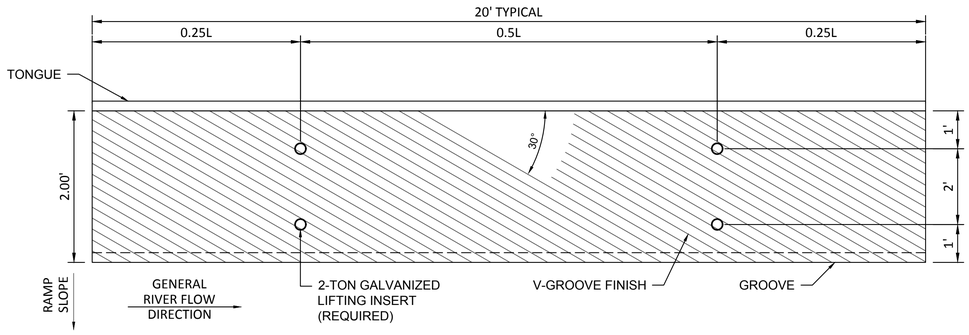
A

SHEET NOTES:

1. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF CONCRETE BOAT RAMPS PRIOR TO COMMENCING WORK.
2. CONCRETE SHALL BE PROPORTIONED, TRANSPORTED, AND PLACED IN ACCORDANCE WITH ACI 350-06.
3. ALL WALLS AND SLABS TO BE 8" THICK CONCRETE UNLESS NOTED OTHERWISE.
4. CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH F'C = 4,000 PSI AT 28 DAYS. PRECAST CONCRETE SHALL HAVE A F'C = 5,000 PSI AT 28 DAYS.
5. MAXIMUM SIZE OF AGGREGATE IS 3/4".
6. ALL REBAR SHALL BE FY=60,000 KSI, ASTM A615, GRADE 60 AND EPOXY COATED.
7. ALL EXPOSED EDGES SHALL HAVE 3/4" CHAMFERS AND SMOOTH FINISHES ON ALL CONCRETE SURFACES. UNLESS NOTED OTHERWISE.
8. MIN CLR FOR REINF BARS, UNLESS SHOWN OTHERWISE, SHALL BE 3" WHEN PLACED ON GROUND AND 2" FOR SURFACES EXPOSED TO WATER OR WEATHER.
9. UNLESS OTHERWISE NOTED, ALL WALL REINF BARS SHALL BE CONT AROUND CORNERS. REINF SHALL BE EXTENDED INTO CONNECTION WALLS AND LAPPED ON THE OPPOSITE FACE OF THE CONNECTING WALLS, AS INDICATED ELSEWHERE ON THIS SHEET. VERT WALL BARS SHALL BE LAPPED WITH DOWELS FROM BASE SLABS AND EXTENDED INTO THE TOP FACE OF ROOF SLABS AND LAPPED WITH TOP SLAB REINF. UNLESS INDICATED OTHERWISE, CONTRACTOR MAY SPLICE CONTINUOUS SLAB OR LONGITUDINAL BEAM BARS AT LOCATIONS OF HIS CHOOSING, EXCEPT THAT TOP BAR SPLICES SHALL BE LOCATED AT MIDSPAN AND BOTTOM BAR SPLICES SHALL BE LOCATED AT SUPPORTS. STAGGER ADJACENT SPLICES PER ACI 350 WITH A MINIMUM OF 2'-0". ALL REINF BENDS AND LAPS UNLESS OTHERWISE NOTED, SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENT:

BAR SIZE	CLASS B TENSION SPLICE	
	TOP	OTHER
#4	20	15
#5	24	19
#7	42	33

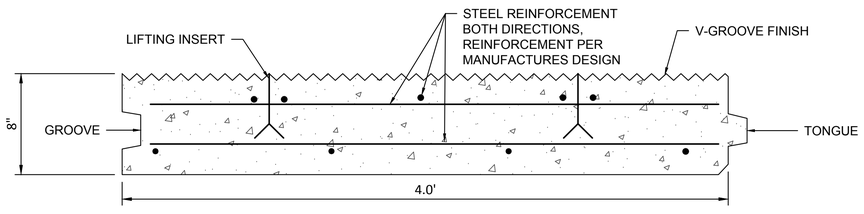
* TOP BAR SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR, IN ANY SINGLE POUR. HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.



PRECAST CONCRETE PLANK

SCALE: NTS

B



PRECAST CONCRETE PLANK SECTION

SCALE: NTS

C

REV	DATE	BY	DESCRIPTION
A	06/22/22	KRJ	100% DESIGN SUBMITTAL

LICENSED PROFESSIONAL ENGINEER KEVIN RONALD JENSEN 90536 CIVIL STATE OF CALIFORNIA

WARNING

0 1/2 1

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

McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

FIRE ACCESS BOAT RAMP
PRECAST DETAILS

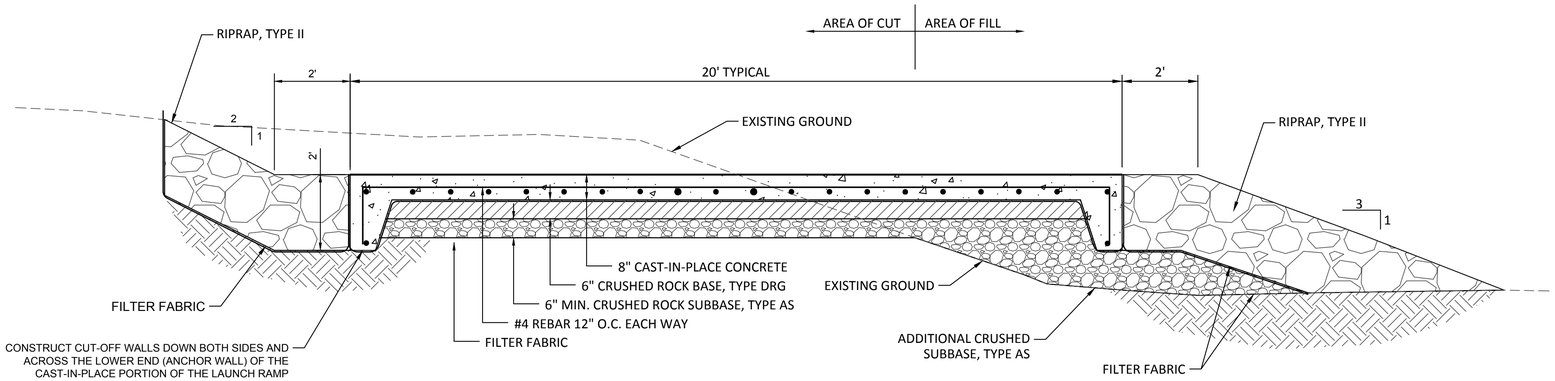
DESIGNED K. JENSEN
DRAWN R. WOOD
CHECKED M. MCMILLEN
PROJECT DATE 06/22/22

DRAWING

C003

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\C003.dwg Plot date: Jun 24, 2022 10:53am, CAD User: wood



CAST-IN-PLACE RAMP SECTION (TYPICAL CUT/FILL)

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

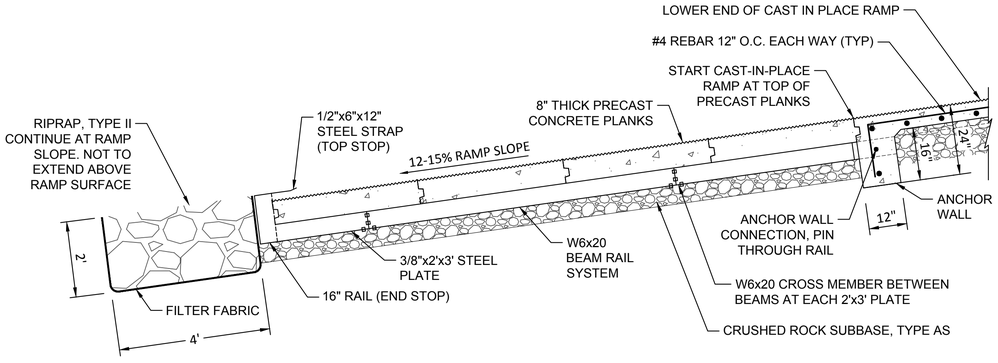
A
-

SHEET NOTES:

1. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF CONCRETE BOAT RAMPS PRIOR TO COMMENCING WORK.
2. CONCRETE SHALL BE PROPORTIONED, TRANSPORTED, AND PLACED IN ACCORDANCE WITH ACI 350-06.
3. ALL WALLS AND SLABS TO BE 8" THICK CONCRETE UNLESS NOTED OTHERWISE.
4. CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH F'C = 4,000 PSI AT 28 DAYS. PRECAST CONCRETE SHALL HAVE A F'C = 5,000 PSI AT 28 DAYS.
5. MAXIMUM SIZE OF AGGREGATE IS 3/4".
6. ALL REBAR SHALL BE FY=60,000 KSI, ASTM A615, GRADE 60 AND EPOXY COATED.
7. ALL EXPOSED EDGES SHALL HAVE 3/4" CHAMFERS AND SMOOTH FINISHES ON ALL CONCRETE SURFACES. UNLESS NOTED OTHERWISE.
8. MIN CLR FOR REINF BARS, UNLESS SHOWN OTHERWISE, SHALL BE 3" WHEN PLACED ON GROUND AND 2" FOR SURFACES EXPOSED TO WATER OR WEATHER.
9. UNLESS OTHERWISE NOTED, ALL WALL REINF BARS SHALL BE CONT AROUND CORNERS. REINF SHALL BE EXTENDED INTO CONNECTION WALLS AND LAPPED ON THE OPPOSITE FACE OF THE CONNECTING WALLS, AS INDICATED ELSEWHERE ON THIS SHEET. VERT WALL BARS SHALL BE LAPPED WITH DOWELS FROM BASE SLABS AND EXTENDED INTO THE TOP FACE OF ROOF SLABS AND LAPPED WITH TOP SLAB REINF. UNLESS INDICATED OTHERWISE, CONTRACTOR MAY SPLICE CONTINUOUS SLAB OR LONGITUDINAL BEAM BARS AT LOCATIONS OF HIS CHOOSING, EXCEPT THAT TOP BAR SPLICES SHALL BE LOCATED AT MIDSPAN AND BOTTOM BAR SPLICES SHALL BE LOCATED AT SUPPORTS. STAGGER ADJACENT SPLICES PER ACI 350 WITH A MINIMUM OF 2'-0". ALL REINF BENDS AND LAPS UNLESS OTHERWISE NOTED, SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENT:

BAR SIZE	CLASS B TENSION SPLICE	
	TOP	OTHER
#4	20	15
#5	24	19
#7	42	33

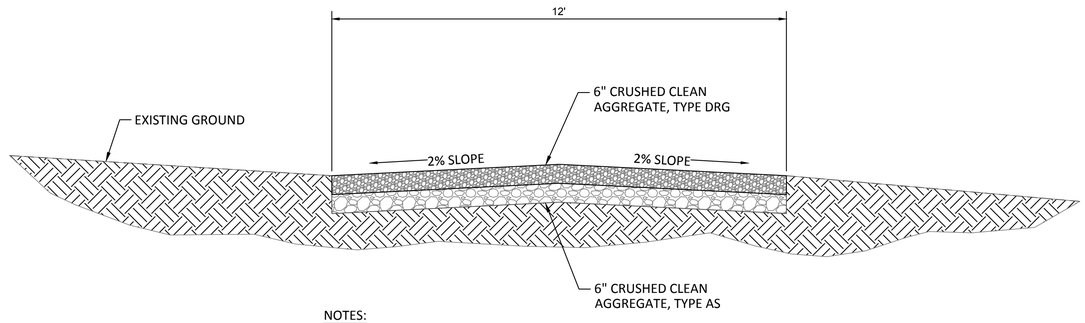
* TOP BAR SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR, IN ANY SINGLE POUR. HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.



CAST-IN-PLACE TO PRECAST TRANSITION

SCALE: NTS

B
-



NOTES:

1. BASE ROCK SHOULD BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION.
2. THE GROUND SURFACE SHOULD BE STRIPPED OF ALL VEGETATION AND ANY AREAS OF SOFT OR DISTURBED SUBGRADE SHOULD BE PROPERLY MOISTURE CONDITIONED AND RECOMPACTED OR OVEREXCAVATED AND REPLACED WITH ADDITIONAL BASE ROCK.

TYPICAL GRAVEL ROAD SECTION

SCALE: NTS

C
-

REV	DATE	BY	DESCRIPTION
A	06/22/22	KRJ	100% DESIGN SUBMITTAL

LICENSED PROFESSIONAL ENGINEER
KEVIN RONALD JENSEN
90536
CIVIL
STATE OF CALIFORNIA

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

McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

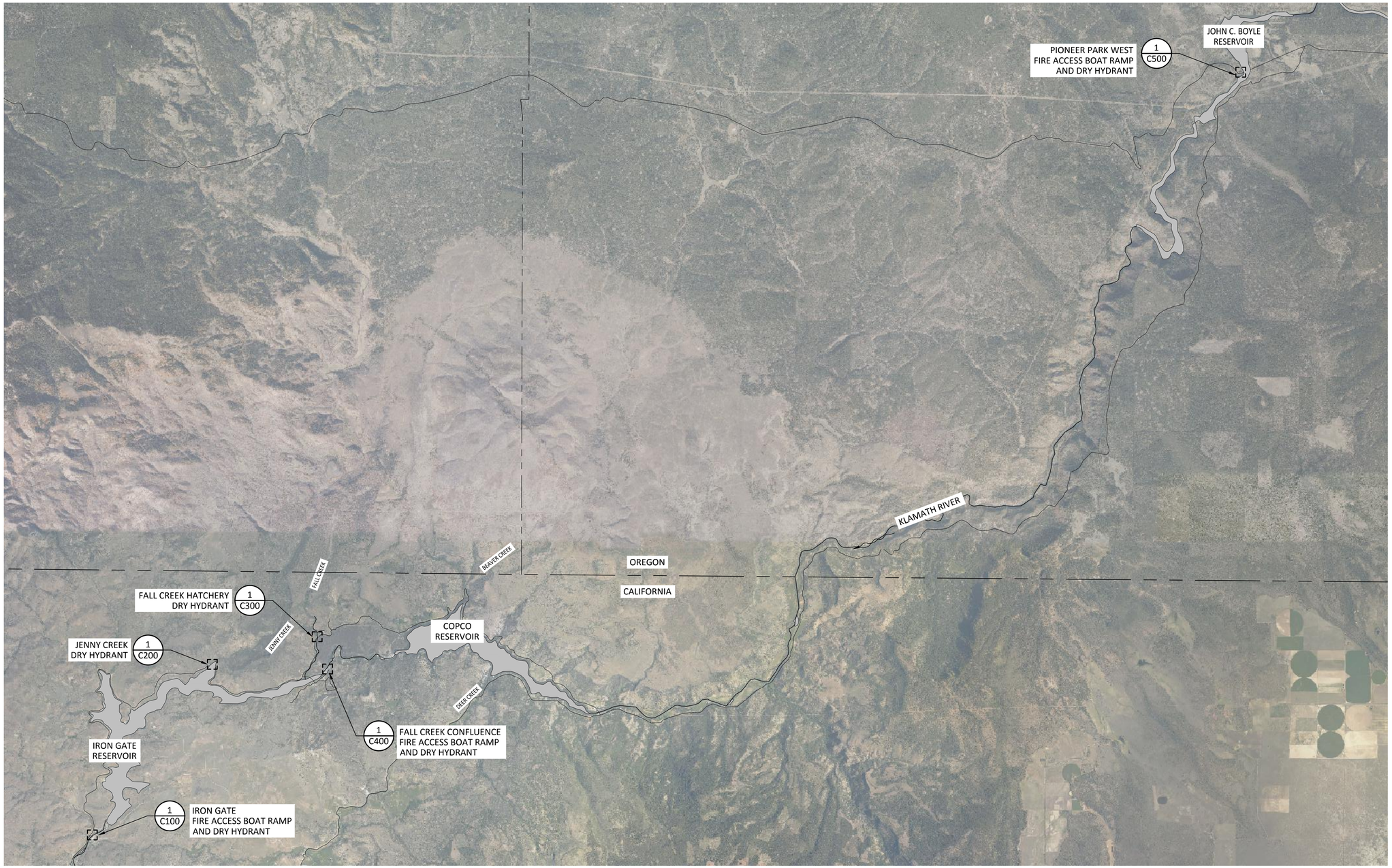
FIRE ACCESS BOAT RAMP
CAST-IN-PLACE DETAILS

DESIGNED K. JENSEN
DRAWN R. WOOD
CHECKED M. MCMILLEN
PROJECT DATE 06/22/22

DRAWING
C004

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\C004.dwg Plot date: Jun 24, 2022 10:53am, CAD User: wood



OVERALL SITE KEY PLAN

SCALE: 1"= 5000'

0" 500' 10000'

1
-

N

REV	DATE	BY	DESCRIPTION
A	06/22/22	KRJ	100% DESIGN SUBMITTAL

LICENSED PROFESSIONAL ENGINEER
KEVIN RONALD JENSEN
90536
CIVIL
STATE OF CALIFORNIA

WARNING

0 1/2 1

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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

OVERALL SITE KEY PLAN

DESIGNED K. JENSEN

DRAWN R. WOOD

CHECKED M. MCMILLEN

PROJECT DATE 06/22/22

DRAWING

C005

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\C005.dwg Plot date: Jun 24, 2022 10:53am, CAD User: wood

SHEET KEY NOTES:

A CONSTRUCT NEW DRY HYDRANT PER DRAWING C001.

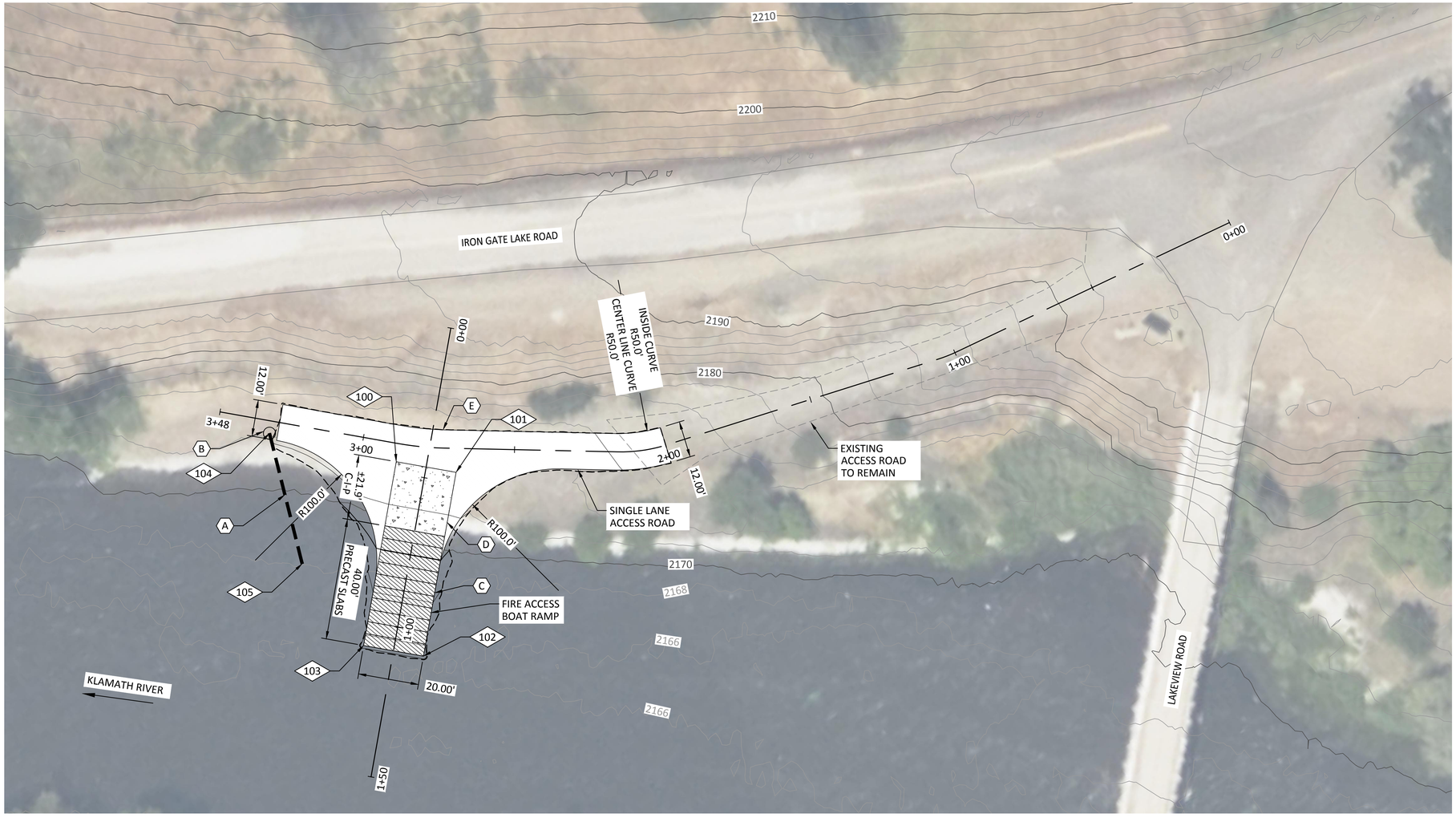
B CONSTRUCT PROTECTIVE PAD FOR DRY HYDRANT AND CONNECTION POINT PER DRAWING C002.

C CONSTRUCT PRECAST PANELS PER DRAWING C003.

D CONSTRUCT CAST-IN-PLACE CONCRETE SLAB PER DRAWING C004.

E CONSTRUCT GRAVEL ROAD SECTION PER DRAWING

CONTROL POINTS				
POINT NO	NORTHING	EASTING	FG EL	DESCRIPTION
100	2587068.26	6441279.42	2172.9	WEST CORNER OF RAMP
101	2587080.80	6441295.01	2172.9	NORTH CORNER OF RAMP
102	2587032.93	6441333.51	2165.5	EAST CORNER OF RAMP
103	2587020.39	6441317.92	2165.5	SOUTH CORNER OF RAMP
104	2587042.98	6441244.92	2175.5	DRY HYDRANT FG (E)
105	2587022.84	6441284.35	2168.0	INTAKE APPROX FG, FIELD FIT PIPE TO MEET CRITERIA



IRON GATE FIRE ACCESS BOAT RAMP AND DRY HYDRANT PLAN

SCALE: 1"= 20'

0" 20' 40'

1 / C005

REV	DATE	BY	DESCRIPTION
A	06/22/22	KRJ	100% DESIGN SUBMITTAL

LICENSED PROFESSIONAL ENGINEER KEVIN RONALD JENSEN 90536 CIVIL STATE OF CALIFORNIA

WARNING

0 1/2 1

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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

IRON GATE FIRE ACCESS BOAT RAMP AND DRY HYDRANT PLAN

DESIGNED K. JENSEN

DRAWN R. WOOD

CHECKED M. MCMILLEN

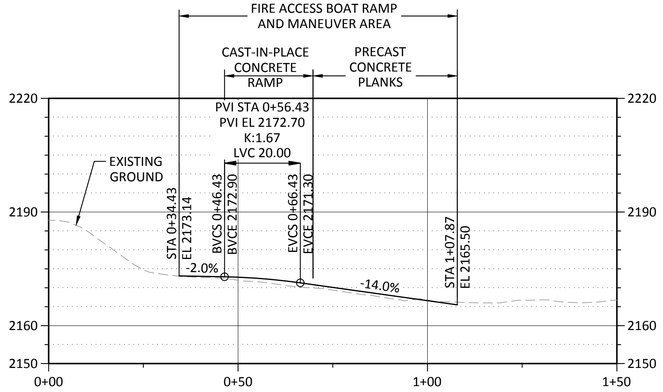
PROJECT DATE 06/22/22

DRAWING

C100

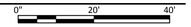
JOB NO: 000000

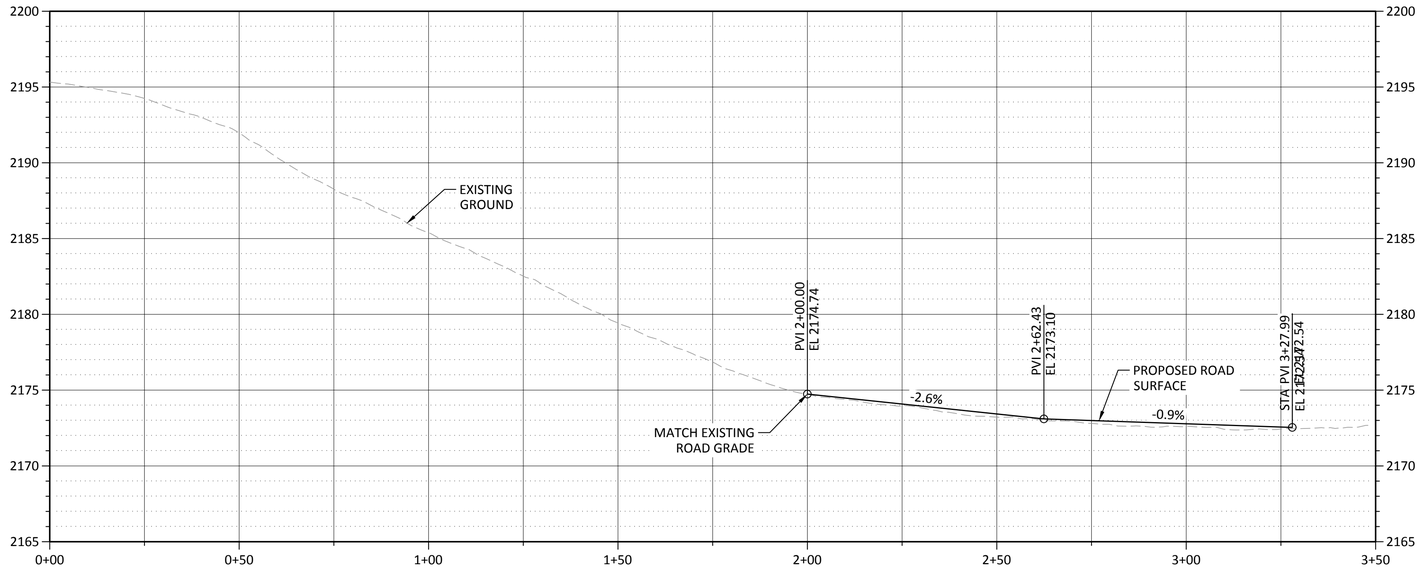
Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\C100.dwg Plot date: Jun 24, 2022 10:53am, CAD User: wood



FIRE ACCESS BOAT RAMP PROFILE

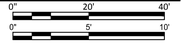
SCALE: 1"= 20'





ACCESS ROAD PROFILE

SCALE: HORIZ 1"= 20'
VERT 1"= 5'



REV	DATE	BY	DESCRIPTION
A	06/22/22	KRJ	100% DESIGN SUBMITTAL

LICENSED PROFESSIONAL ENGINEER
KEVIN RONALD JENSEN
90536
CIVIL
STATE OF CALIFORNIA

WARNING

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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

IRON GATE FIRE ACCESS BOAT RAMP
AND ACCESS ROAD PROFILES

DESIGNED K. JENSEN
DRAWN R. WOOD
CHECKED M. MCMILLEN
PROJECT DATE 06/22/22

DRAWING

C101

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\C101.dwg Plot date: Jun 24, 2022 10:54am, CAD User: wood

JENNY CREEK DRY HYDRANT PLAN

SCALE: 1"= 40'

0" 40' 80'

1 / C005

SHEET KEY NOTES:

A CONSTRUCT NEW DRY HYDRANT PER DRAWING C001.

B CONSTRUCT PROTECTIVE PAD FOR DRY HYDRANT AND CONNECTION POINT PER DRAWING C002.

SHEET NOTES:

1. PIPE OUTLET INVERT ELEVATION IS APPROXIMATE. FIELD FIT PIPE OUTLET ELEVATION TO ENSURE MINIMUM OF 2 FEET OF SUBMERGENCE ON PIPE CROWN DURING SUMMER LOW FLOW PERIOD.

CONTROL POINTS				
POINT NO	NORTHING	EASTING	FG EL	DESCRIPTION
200	2603727.04	6453212.96	2337.0	DRY HYDRANT FG (E)
201	2603771.15	6453242.14	2335.0	ELBOW, FG
202	2603801.84	6453292.42	2331.0	INTAKE APPROX FG, FIELD FIT PIPE TO MEET CRITERIA

REV	DATE	BY	DESCRIPTION
A	06/22/22	KRJ	100% DESIGN SUBMITTAL

LICENSED PROFESSIONAL ENGINEER
KEVIN RONALD JENSEN
90536
CIVIL
STATE OF CALIFORNIA

WARNING

0 1/2 1

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

McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

JENNY CREEK DRY HYDRANT PLAN

DESIGNED K. JENSEN
DRAWN R. WOOD
CHECKED M. MCMILLEN
PROJECT DATE 06/22/22

DRAWING

C200

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\C200.dwg Plot date: Jun 24, 2022 10:54am, CAD User: wood

SHEET KEY NOTES:

A CONSTRUCT NEW DRY HYDRANT PER DRAWING C001.

B CONSTRUCT PROTECTIVE PAD FOR DRY HYDRANT AND CONNECTION POINT PER DRAWING C002.

SHEET NOTES:

1. COORDINATE WITH HATCHERY CONSTRUCTION PRIOR TO INSTALLATION.
2. PIPE OUTLET INVERT ELEVATION IS APPROXIMATE. FIELD FIT PIPE OUTLET ELEVATION TO ENSURE MINIMUM OF 2 FEET OF SUBMERGENCE ON PIPE CROWN DURING SUMMER LOW FLOW PERIOD.

CONTROL POINTS				
POINT NO	NORTHING	EASTING	FG EL	DESCRIPTION
300	2606334.04	6463159.72	2494.3	DRY HYDRANT FG (E)
301	2606325.72	6463188.58	2487.0	INTAKE APPROX FG, FIELD FIT PIPE TO MEET CRITERIA

FALL CREEK HATCHERY DRY HYDRANT PLAN

SCALE: 1"= 20'

0" 20' 40'

1 / C005

N

REV	DATE	BY	DESCRIPTION
A	06/22/22	KRJ	100% DESIGN SUBMITTAL

LICENSED PROFESSIONAL ENGINEER
KEVIN RONALD JENSEN
90536
CIVIL
STATE OF CALIFORNIA

WARNING

0 1/2 1

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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

FALL CREEK HATCHERY DRY HYDRANT PLAN

DESIGNED K. JENSEN

DRAWN R. WOOD

CHECKED M. MCMILLEN

PROJECT DATE 06/22/22

DRAWING

C300

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\C300.dwg Plot date: Jun 24, 2022 10:54am, CAD User: wood

FALL CREEK CONFLUENCE FIRE ACCESS BOAT RAMP AND DRY HYDRANT

SCALE: 1"= 40'

0' 40' 80'

1 C102

SHEET KEY NOTES:

A CONSTRUCT NEW DRY HYDRANT PER DRAWING C001.

B CONSTRUCT PROTECTIVE PAD FOR DRY HYDRANT AND CONNECTION POINT PER DRAWING C002.

C CONSTRUCT GRAVEL ROAD SECTION PER DRAWING C004.

D IMPROVEMENTS TO EXISTING BOAT RAMP TO INCLUDE PLACEMENT AND COMPACTION OF GRAVEL AND COBBLE MATERIAL 3 TO 6 INCHES DEEP AND SPREAD OVER EXISTING RAMP TO CREATE AN EVEN SURFACE. WORK FINER GRAVEL MATERIAL INTO VOIDS TO ACHIEVE A COMPACT SURFACE.

SHEET NOTES:

1. RETAIN AND PROTECT ALL TREES WITHIN THE PROJECT AREA, UNLESS NOTED OTHERWISE.

CONTROL POINTS				
POINT NO	NORTHING	EASTING	FG EL	DESCRIPTION
400	2602002.95	6461361.72	2333.0	WEST CORNER OF RAMP
401	2602052.28	6461449.04	2334.7	NORTH CORNER OF RAMP
402	2601893.07	6461431.09	2321.4	EAST CORNER OF RAMP
403	2601891.44	6461411.15	2320.3	SOUTH CORNER OF RAMP
404	2601999.58	6461355.64	2333.0	DRY HYDRANT FG (E)
405	2601926.04	6461396.97	2323.5	INTAKE APPROX FG, FIELD FIT PIPE TO MEET CRITERIA

REV	DATE	BY	DESCRIPTION
A	06/22/22	KRJ	100% DESIGN SUBMITTAL

LICENSED PROFESSIONAL ENGINEER
KEVIN RONALD JENSEN
90536
CIVIL
STATE OF CALIFORNIA

WARNING
0 1/2 1
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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

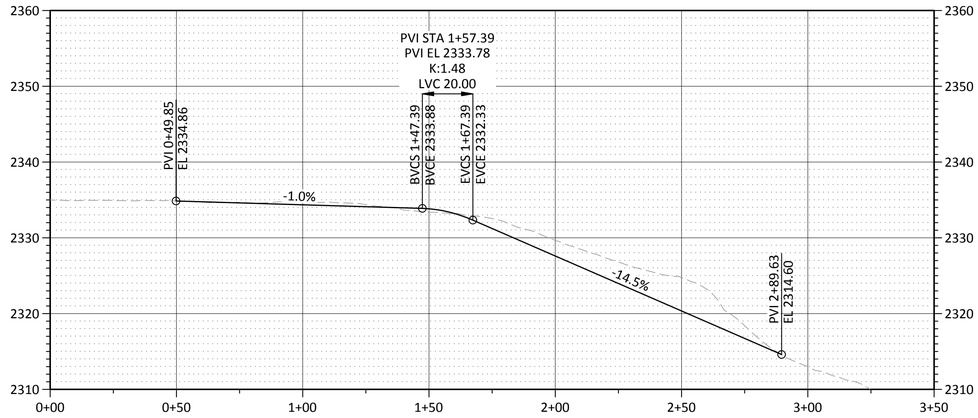
FALL CREEK CONFLUENCE FIRE ACCESS BOAT RAMP AND DRY HYDRANT PLAN

DESIGNED K. JENSEN
DRAWN R. WOOD
CHECKED M. MCMILLEN
PROJECT DATE 06/22/22

DRAWING
C400

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\C400.dwg Plot date: Jun 24, 2022 10:55am, CAD User: wood



ACCESS ROAD AND FIRE ACCESS BOAT RAMP PROFILE

SCALE: HORIZ 1"= 30'
VERT 1"= 10'

0" 30' 60'
0" 10' 20'

REV	DATE	BY	DESCRIPTION
A	06/22/22	KRJ	100% DESIGN SUBMITTAL

LICENSED PROFESSIONAL ENGINEER
KEVIN RONALD JENSEN
90536
CIVIL
STATE OF CALIFORNIA

WARNING
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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

FALL CREEK CONFLUENCE FIRE ACCESS
BOAT RAMP PROFILE

DESIGNED K. JENSEN
DRAWN R. WOOD
CHECKED M. MCMILLEN
PROJECT DATE 06/22/22

DRAWING
C401

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\C401.dwg Plot date: Jun 24, 2022 10:55am, CAD User: wood

PIONEER PARK WEST FIRE ACCESS BOAT RAMP AND DRY HYDRANT PLAN

SCALE: 1"= 30'

0" 30' 60'

1 C005

SHEET KEY NOTES:

A CONSTRUCT NEW DRY HYDRANT PER DRAWING C001.

B CONSTRUCT PROTECTIVE PAD FOR DRY HYDRANT AND CONNECTION POINT PER DRAWING C002.

C CONSTRUCT PRECAST PANELS PER DRAWING C003.

D CONSTRUCT CAST-IN-PLACE CONCRETE SLAB PER DRAWING C004.

E CONSTRUCT GRAVEL ROAD SECTION PER DRAWING C004.

SHEET NOTES:

1. PROJECT CONSTRUCTION TO OCCUR DURING LOW WATER TO FACILITATE CAST-IN-PLACE RAMP PLACEMENT.

CONTROL POINTS				
POINT NO	NORTHING	EASTING	FG EL	DESCRIPTION
500	2660836.29	6552917.94	3793.1	WEST CORNER OF RAMP
501	2660849.23	6552933.19	3793.1	NORTH CORNER OF RAMP
502	2660776.95	6552994.49	3781.0	EAST CORNER OF RAMP
503	2660764.01	6552979.23	3781.0	SOUTH CORNER OF RAMP
504	2660832.39	6552951.91	3791.0	DRY HYDRANT FG (E)
505	2660809.37	6552996.29	3783.0	DISTANCE APPROX FG, FIELD FIT PIPE TO MEET CRITERIA

REV	DATE	BY	DESCRIPTION
A	06/22/22	KRJ	100% DESIGN SUBMITTAL

REGISTERED PROFESSIONAL ENGINEER 16047 OREGON JULY 21, 1992 MORTON D. McMILLEN EXPIRATION DATE: 12/31/

WARNING

0 1/2 1

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

McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS

PIONEER PARK WEST FIRE ACCESS BOAT RAMP AND DRY HYDRANT PLAN

DESIGNED K. JENSEN

DRAWN R. WOOD

CHECKED M. MCMILLEN

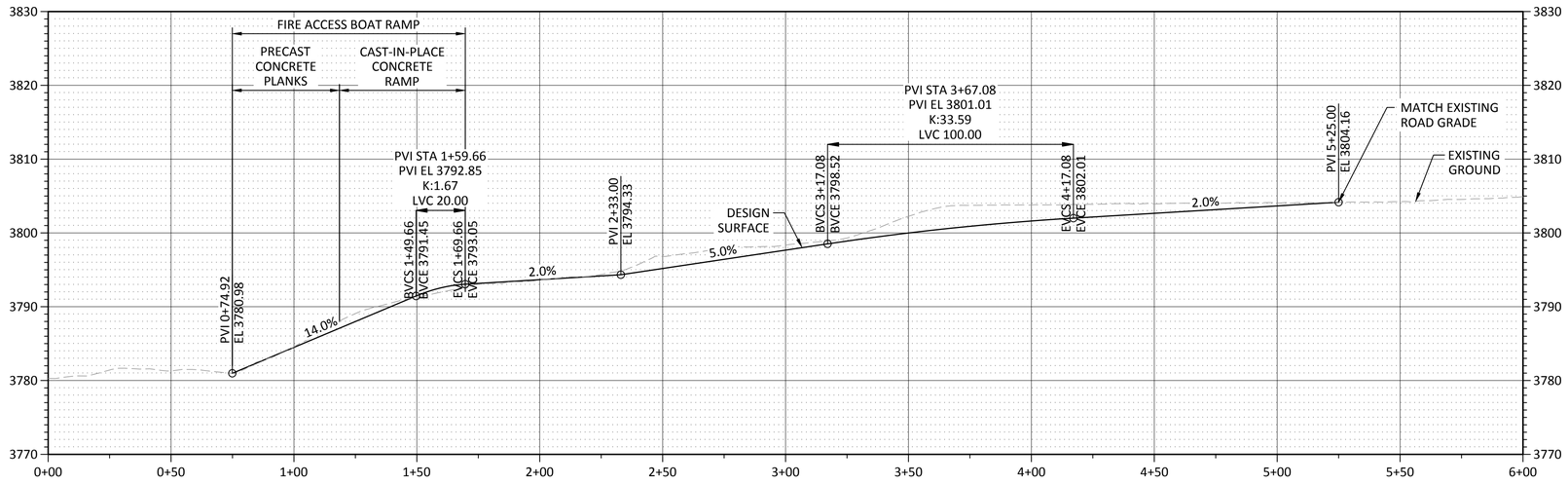
PROJECT DATE 06/22/22

DRAWING

C500

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\C500.dwg Plot date: Jun 24, 2022 10:55am, CAD User: wood



PIONEER PARK WEST FIRE ACCESS BOAT RAMP PROFILE

SCALE: HORIZ 1"= 30'
VERT 1"= 10'

0" 30' 60'
0" 10' 20'

REV	DATE	BY	DESCRIPTION
A	06/22/22	KRJ	100% DESIGN SUBMITTAL

REGISTERED PROFESSIONAL ENGINEER
16047
OREGON
JULY 21, 1992
MORTON D. McMILLEN
EXPIRATION DATE: 12/31/

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

McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION
FIRE ACCESS BOAT RAMPS AND DRY HYDRANTS
PIONEER PARK WEST FIRE ACCESS BOAT RAMP PROFILE

DESIGNED K. JENSEN
DRAWN R. WOOD
CHECKED M. MCMILLEN
PROJECT DATE 06/22/22

DRAWING
C501

JOB NO: 000000

Path: C:\Vault20\klamath river renewal corp\boat ramp dry hydrant\C501.dwg Plot date: Jun 24, 2022 10:55am, CAD User: wood