CITY OF THE DALLES
DOG RIVER PIPELINE REPLACEMENT
CITY CONTRACT NO. 2022-001

THE DALLES, OREGON

BIDDING REQUIREMENTS AND CONTRACT DOCUMENTS
VOLUME 2: DRAWINGS
MARCH 2022

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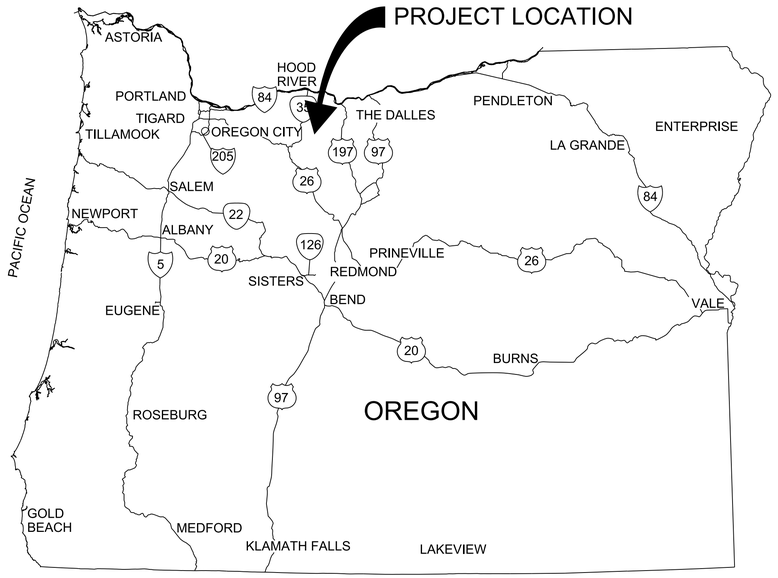

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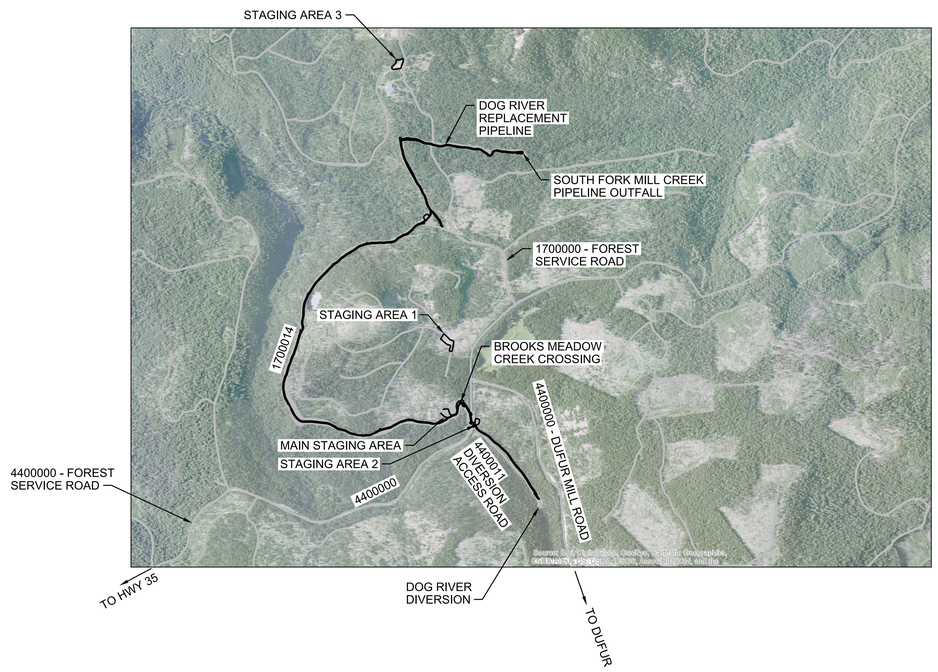
VICINITY MAP



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LOCATION MAP

REGISTERED PROFESSIONAL ENGINEER
51509PE
Digital Signature
OREGON
FEBRUARY 8, 2005
ROBERT BRADY FULLER
EXP. 12/31/2023

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Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

GENERAL
TITLE, VICINITY AND LOCATION MAP

ISSUED FOR CONSTRUCTION

CONTRACT NO.:	2022-001
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	01-G-0001
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ABBREVIATIONS

A	AMMETER, AMPERES, AWNINGS
AB	ANCHOR BOLT, ABOVE
ABDN	ABANDON
AC	ACOUSTICAL, ACOUSTICAL CEILING
AC	ALTERNATING CURRENT
AC	ASPHALTIC CONCRETE
ACFL	ACCESS FLOORING
ACI	AMERICAN CONCRETE INSTITUTE
ACMU	ACOUSTICAL CONCRETE MASONRY UNIT, ACOUSTICAL CMU
ACP	ACOUSTICAL PANELS
ACST	ACOUSTICAL
ACT	ACOUSTICAL TILE
AD	AREA DRAIN
ADDL	ADDITIONAL
ADJ	ADJACENT
ADW	DRY WEATHER AVERAGE
AFD	ADJUSTABLE FREQUENCY DRIVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AG	ACOUSTICAL, ACOUSTICAL GLASS
AGGR	AGGREGATE
AHR	ANCHOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AJ	ADJUSTABLE
AL	ALUMINUM
ALKY	ALKALINITY
ALTN/ALT	ALTERNATE
AM	AUTO-MANUAL
AMRD	ACOUSTICAL METAL ROOF DECKING
ANDZ	ANODIZE
APPROX	APPROXIMATE
APVD	APPROVED
ARCH	ARCHITECTURAL
AR	ANALOG RELAY
AS	AS SELECTED
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AVG	AVERAGE
AWW	WET WEATHER AVERAGE
@	AT
B	BELL
BAL	BALANCE
BETW	BETWEEN
BF	BLIND FLANGE, BOTTOM FACE
BFV	BUTTERFLY VALVE
BL	BASELINE
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BLK	BLOCK
BM	BEAM, BENCHMARK
BO	BOTTOM OF
B.O.B.	BOTTOM OF BEAM
BLL	BOTTOM LOWER LAYER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BRKR	BREAKER
BSP	BLACK STEEL PIPE
BUL	BOTTOM UPPER LAYER
BTWN	BETWEEN
BV	BALL VALVE, BLOCK VENT
BVC	BEGINNING OF VERTICAL CURVE
C	CONDUIT, CASEMENT
°C	DEGREE CELSIUS
C TO C	CENTER TO CENTER
CAB	CABINET
CB	CATCH BASIN, CIRCUIT BREAKER
CC	CENTER OF CIRCLE
CC	CONTROL CABLE
CCP	CENTRAL CONTROL PANEL
CCS	CENTRAL CONTROL SYSTEM
CDF	CONTROLLED DENSITY FILL
CE	CONSTRUCTION ENTRANCE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CHEM	CHEMICAL
CHKD	CHECKERED
CI	CAST IRON
CIP	CAST IRON PIPE, CAST IN PLACE
CIP	CULVERT INLET PROTECTION
CISP	CAST IRON SOIL PIPE
CJ	CONSTRUCTION JOINT
CKT	CIRCUIT
CL	CENTERLINE
CLDI	CEMENT LINED DUCTILE IRON
CLSF	CONTROLLED LOW STRENGTH FILL
CLG	CEILING
CLR	CLEAR, CLEARANCE
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CMP	CENTRAL MONITORING PANEL
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEANOUT, CARBON MONOXIDE
COL	COLUMN, COLOR
CONC	CONCRETE
COND	CONDENSATE
CONDTN	CONDITIONED
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUED, CONTINUOUS, CONTINUATION
CONTR	CONTRACTOR
COORD	COORDINATE
COP	COPPER
CP	CENTER PIVOT
CP-X	CONTROL PANEL NO. X
CPLG	COUPLING
CPRSR	COMPRESSOR
CPT	CONTROL POWER TRANFORMER, CARPET
CPVC	CHLORINATED PVC
CR	CONTROL RELAY
CRS	COLD ROLLED STEEL
CRS	CONSTRUCTION ROAD STABILIZATION
CT	CERAMIC TILE
CT	CURRENT TRANSFORMER
CTC	COMPUTER TERMINAL CABINET
CTR	CENTER
CTRD	CENTERED
CTSK	COUNTERSUNK
CU	CUBIC
CU FT	CUBIC FOOT
CU IN	CUBIC INCH
CUH	COPPER TUBING, HARD DRAWN
CV	CHECK VALVE
CWR	CABINET DOOR MOUNTED WASTE RECEPTACLE
CY, CU YD	CUBIC YARD
CWS	CLEAN WATER SERVICES
D	DEEP, DRAIN
d	PENNY NAIL SIZE
DA	DUAL ACTION
DAS	DATA ACQUISTION SYSTEM
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DC	DIRECT CURRENT
DEG	DEGREE
DET	DETAIL
DF	DOUGLAS FIR, DRINKING FOUNTAIN
DDI	DROP INLET
DH	DOUBLE HUNG
DI	DUCTILE IRON
DIA	DIAMETER
DIAG	DIAGONAL
DIP	DUCTILE IRON PIPE
DIPS	DUCTILE IRON PIPE SIZE
DIR	DIRECTION
DISCH	DISCHARGE
DL	DEAD LOAD
DN	DOWN
DO	DISSOLVED OXYGEN
DOL	DIRECT-ON-LINE
DP, DPNL	DISTRIBUTION PANEL
DR	DOOR
DS	DOWNSPOUT
DWG	DRAWING
DWL	DOWEL
△	DELTA
E	EAST, EMPTY
EA	EACH, EXHAUST AIR
EB, EBCT	EMPTY BED CONTACT TIME
ECC	ECCENTRIC
EE	EMERGENCY EYEWASH
EDF	EGG-SHAPED DIGESTER FACILITY
EF	EACH FACE, EXHAUST FAN
EFF	EFFICIENCY, EFFICIENT
EFL	EFFLUENT
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EL	ELEVATION
ELB	ELBOW
ELC	ELECTRICAL LOAD CENTER
ELEC	ELECTRIC, ELECTRICAL
ENGR	ENGINEER
EOP	EDGE OF PAVEMENT
ESC	EROSION AND SEDIMENT CONTROL
EP	EXPLOSION PROOF, EDGE OF PAVING
EQL	EQUAL
EQL SP	EQUALLY SPACED
EQPT	EQUIPMENT
ESC	EROSION AND SEDIMENT CONTROL
ETM	ELAPSED TIME METER
EVC	END OF VERTICAL CURVE
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXP	EXPANSION, EXPOSED
EXP AB	EXPANSION ANCHOR BOLT
EXP JT	EXPANSION JOINT
EXST, EXIST	EXISTING
EXT	EXTERIOR
° F	DEGREE FAHRENHEIT
FB	FLAT BAR
F, FU	FUSE
F, FX	FIXED
FAP	FIRE ALARM PANEL
FC	FLEXIBLE CONDUIT
FCA	FLANGED COUPLING ADAPTER
FCL2	FREE CHLORINE RESIDUAL
FCO	FLOOR CLEANOUT
FCTY	FACTORY
FD	FLOOR DRAIN
FDN	FOUNDATION
FDR	FEEDER
FEXT	FIRE EXTINGUISHER
FF	FINISHED FLOOR
FG	FINISH GRADE, FLOAT GLASS
FH	FLAT HEAD
FHY	FIRE HYDRANT
FIG	FIGURE
FL	FLOW LINE
FLG	FLANGE
FL	FLOOR
FLEX	FLEXIBLE
FLH	FLAT HEAD
FLTR	FILTER
FLUOR	FLUORESCENT
FNSH	FINISH
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FP	FIELD PANEL
FPM	FEET PER MINUTE
FR	FORWARD REVERSE
FRP	FIBERGLASS REINFORCED PLASTIC
FSHS	FOLDING SHOWER SEAT
FT	FOOT OR FEET
FTG	FOOTING
FU	FIXTURE UNIT
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
FWD	FORWARD
G, GND	GROUND
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GYPSUM BOARD
GC	GROOVED COUPLING
GCMU	GLAZED CONCRETE MASONRY UNITS
GFA	GROOVED FLANGE ADAPTER
GFI	GROUND FAULT INTERRUPTER
GFR	GROUND FAULT RELAY
GH	GREENHOUSE
GL	GLASS
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPS	GLOBAL POSITION SYSTEM
GRTG	GRATING
GSB	GYPSUM SOFFIT BOARD
GSP	GALVANIZED STEEL PIPE
GV	GATE VALVE
GVL	GRAVEL
GWB	GYPSUM WALLBOARD
GYP	GYPSUM
H	HIGH, HORN OR HOWLER
H2S	HYDROGEN SULFIDE
H.A.S.	HEADED ANCHOR STUD
HC	HOLLOW CORE WOOD
HCL	HYDROCHLORIC ACID
HDNR	HARDENER
HDNS	HARDNESS
HDR	HEADER
HDW	HARDWARE
HGL	HYDRAULIC GRADE LINE
HK	HOOK
HGT	HEIGHT
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HK	HOOK
HM	HOLLOW METAL
HOA	HAND-OFF-AUTO
HOR	HAND-OFF-REMOTE
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPT	HIGH POINT
HPU	HYDRAULIC POWER UNIT
HR	HOSE RACK, HANDRAIL
HV	HOSE VALVE
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HWL	HIGH WATER LEVEL
IC	INTERRUPTING CAPACITY
ID	INDUCED DRAFT, INSIDE DIAMETER
IE	INVERT ELEVATION
I.F.	INSIDE FACE
IG	INSULATING, INSULATING GLASS
IN	INCH
INCAND	INCANDESCENT
INFL	INFLUENT
INJS	INJECTIONS
INST	INSTANTANEOUS
INSTM	INSTRUMENT, INSTRUMENTATION
INSUL	INSULATION
INVT	INVERT
IP	INLET PROTECTION, INSTRUMENTATION PANEL
IPS	IRON PIPE SIZE
IRRIG	IRRIGATION
ITG	INSULATED TEMPERED GLASS
ITX	ISOLATION TRANSFORMER
IU	INTAKE UNIT
IW	IRRIGATION WELL
J	JALOUSIE
JA	JAL-AWNING
JB	JUNCTION BOX
JAN	JANITOR
JCT	JUNCTION
JT	JOINT
K	KEY GROUP, KEY INTERLOCK
KIP	THOUSAND POUNDS
KIT	KITCHEN
K-PL	KICKPLATE
kPa	KILOPASCAL
KSK	KITCHEN SINK
KV	KILOVOLTS
KVA	KILOVOLT AMPERES
KVAR	KILOVOLT AMPERES REACTIVE
KW	KILOWATT
L	ANGLE, LENGTH
LA	LIGHTNING ARRESTER
LAB	LABORATORY
LAM	LAMINATE
LAT	LATITUDE
LB	POUND
LC	LIGHTING CONTACTOR
LD	COMBINATION LOUVER/DAMPER
LDG	LOADING DOCK
LEL	LOWER EXPLOSIVE LIMIT
LF	LINEAR FEET
LG	LONG
LH	LEFT HAND
LL	LIVE LOAD
LHR	LEFT HAND REVERSE
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNTL	LINTEL
LONG	LONGITUDINAL
LOS	LOCK-OUT STOP PUSHBUTTON
LP	LIGHT POLE, LIGHTING PANEL, LOCAL PANEL
LPT	LOW POINT
LR	LATCHING RELAY
LR	LOCAL-REMOTE
LR	LONG RADIUS
LS	LABORATORY SINK
LT	LEFT
LTG, LTS	LIGHTS OR LIGHTING
LTX	LIGHTING TRANSFORMER
LWL	LOW WATER LEVEL
MA	MANUAL-AUTO
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MASONRY CLEARANCE
MC	MODULATE-CLOSE
MCC	MOTOR CONTROL CENTER
MCJ	MASONRY CONTROL JOINT
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MFD	MANUFACTURED
MFR	MANUFACTURER
MGD	MILLION GALLONS PER DAY
MH	MANHOLE, MOUNTING HEIGHT
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MLO	MAIN LUGS ONLY
MMDW	DRY WEATHER MAXIMUM MONTH
MMP	MECHANICAL MOUNTING PANEL
MMWW	WET WEATHER MAXIMUM MONTH
MO	MANUAL OPERABLE, MASONRY OPENING
MP	METAL PANEL
MPa	MEGAPASCAL
MPU	MULTIPURPOSE UNIT
MS	MANUFACTURER'S STANDARD
MSC	MANUFACTURER SUPPLIED CABLE
MSR	GROUPED MOTOR CONTROL
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
MTS	MILL TYPE STEEL PIPE
MU	MULCHING
MV	MERCURY VAPOR
MWS	MAXIMUM WATER SURFACE
N	NORTH, NEUTRAL
NA	NOT APPLICABLE
NA	NON-AUTOMATIC
NC	NORMALLY CLOSED
NEUT	NEUTRAL
NG	NATURAL GAS
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO., #	NUMBER
NOM	NOMINAL
NP	NON-PROTECTED
NPT	NATIONAL PIPE THREADS
NS	NON-SHRINK
NTS	NOT TO SCALE
O2	OXYGEN
O TO O	OUT TO OUT
OA	OVERALL, ODOROUS AIR
OC	ON CENTER
OC	OPEN-CLOSE (O)
OCA	OPEN-CLOSE-AUTO
OCR	OPEN-CLOSE-REMOTE
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
O.F.	OUTSIDE FACE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OL	OVERLOAD RELAY
OO	ON-OFF
OOA	ON-OFF-AUTO
OOR	ON-OFF-REMOTE
OP	OPAQUE PANEL, OUTLET PROTECTION
OPER	OPERATOR
OPNG	OPENING
OPP	OPPOSITE
OSA	OUTSIDE AIR
OSC	OPEN-STOP-CLOSE
OSD	OPEN SITE DRAIN
OWSJ	OPEN WEB STEEL JOIST
OZ	OUNCE
P	PROJECTED, PILASTER, PIPE
PAVT	PAVER TILE
PB	PUSHBUTTON SWITCH
PC	POINT OF CURVE, PHOTOCELL
PC	PRECAST CONCRETE PANEL
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PCV	PRESSURE CONTROL VALVE
PE	PLAIN END
PED	PEDESTAL, PEDESTRIAN
PEP	POLYETHYLENE PIPE
PEN.	PENETRATION
PFC	POUNDS PER CUBIC FOOT
PH	PENTHOUSE
pH	HYDROGEN ION CONCENTRATION
PH	PHASE
PI	POINT OF INTERSECTION
PIT	PILOT TUBE TEST STATION
PJF	PREMOULDED JOINT FILLER
PL	PLATE (STEEL)
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER, PLASTIC
PLC	PROGRAMMABLE LOGIC CONTROLLER
PLYWD	PLYWOOD
PNL	PANEL
PP	POWER POLE
P-P	PUSH-PULL
PPL	POLYPROPYLENE LINED
PR	PAIR
PRC	POINT OF REVERSE CURVE
PRCST	PRECAST
PREFAB	PREFABRICATION
PRES	PRESSURE
PRI	PRIMARY
PRM	PERMANENT REFERENCED MARKER
PROJ	PROJECTION
PROP	PROPERTY
PS	PLASTIC SHEET, POLYCARBONATE SHEET
PS	PAINT SYSTEM
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH, GAUGE
PT	POINT OF TANGENCY
PT	POTENTIAL TRANSFORMER
PT	PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE, POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENCY
QAA	AVERAGE FLOW
QMM	MAXIMUM 30 DAY FLOW
QPI	PEAK INSTANTANEOUS FLOW
QPP	PEAK PUMPING FLOW
QT	QUARRY TILE
R	RISER
R OR RAD	RADIUS
RA	RETURN AIR
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RCPT	RECEPTACLE
RD	ROAD, ROOF DRAIN
RDCR	REDUCER
RDW	REDWOOD
RECIR	RECIRCULATION
REF	REFER OR REFERENCE
REFR	REFRIGERATE, REFRIGERANT
REINF	REINFORCED, REINFORCING, REINFORCE
REQD	REQUIRED
RESIL	RESILIENT
RFS	ROLL-UP FIRE SHUTTER
RH	RIGHT HAND
RH	RODHOLE
RHR	RIGHT HAND REVERSE
RL	RAIN LEADER
RLD	RAIN LOAD
RLS	RUBBER LINED STEEL
RM	ROOM
RO	ROUGH OPENING
ROL	RAISE-OFF-LOWER
RPM	REVOLUTIONS PER MINUTE
RR	RIPRAP

NOTES:

1. CONTACT ENGINEER FOR ABBREVIATIONS USED BUT NOT SHOWN ON THIS DRAWING.

GENERAL NOTE:

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REGISTERED PROFESSIONAL ENGINEER
51509PE
Digital Signature
OREGON
FEBRUARY 8, 2005
ROBERT BRADY FULLER
EXP. 12/31/2023

NO.	DATE	DSGN	DR	CHK	APVD
		T DYE	S BRENNWALD	T DYE	B FULLER

REVISION

BY APVD

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Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

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GENERAL
ABBREVIATIONS

CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	01-G-0003
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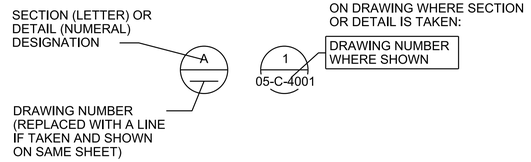
ABBREVIATIONS (CONT.)

RRUB	RADIAL RUBBER
RS	RIGID STEEL
RST	REINFORCING STEEL
RT	RIGHT
RTN	RETURN
RTO	REGENERATIVE THERMAL OXIDIZER
RUB	RUBBER
RUBC	RUBBER CUSHIONED FLOORING
RUBS	RUBBER ESD CONTROL FLOORING
RW	RAW WATER
R/W	RIGHT OF WAY
S	I-BEAM
S	SLOPE, SOUTH, SWITCH
SA	SUPPLY AIR
SATC	SUSPENDED ACCUSTICAL TILE CEILING
SB	SEDIMENT BASIN
SC	SHOWER CURTAIN, SOLID CORE WOOD
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SCC	SOLID CORE
SCFM	STANDARD CUBIC FEED PER MINUTE
SCHED	SCHEDULE
SCU	SPEED CONTROL UNIT
SDP	SUB-DISTRIBUTION PANEL
SDWK	SIDEWALK
SEC	SECONDARY
SECT	SECTION
SED	SEDIMENTATION
SEW	SEWAGE
SG	LAMINATED SAFETY GLASS, SAFETY
SGWB	SUSPENDED GYPSUM WALL BOARD
SH	SHEET
SHA	SURFACE HARDENING AGENT
SHS	SOLIDS HANDLING SYSTEM
SIM	SIMILAR
SK	SINK
SL	SNOW LOAD
SLR	SEALER
SMLS	SEAMLESS EPOXY
SOI	SPRAY- ON INSULATION
SOLN	SOLUTION
SP	SPACE OR SPACES, SPANDREL PANEL, STORMPROOF
SPEC, SPECS	SPECIFICATIONS
SPD	SUMP PUMP DISCHARGE
SPG	SPACING
SPLY	SUPPLY
SQ	SQUARE
SQ FT	SQUARE FOOT, FEET
SQ IN	SQUARE INCH
SR	SHORT RADIUS
SS	START-STOP
SST	STAINLESS STEEL
SSC	SUPERVISORY SET POINT CONTROL
ST	STORM DRAIN
ST	STRAIGHT
STA	STATUS, STATION
STD	STANDARD
STIF	STIFFENER
STIRR	STIRRUP
STL	STEEL
STRL	STRUCTUAL
STRUCT	STRUCTURE
SUBFL	SUBFLOOR
SUSP	SUSPENDED
SV	SOLENOID VALVE
SVIN	SHEET VINYL
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYMM	SYMMETRICAL
T	THERMOSTAT, TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TA	TRANSFER AIR
TAN	TANGENT
TB	TERMINAL BOARD
TBG	TUBING
TC	TIME TO CLOSE
TC	TURBIDITY CURTAIN
TCAD	TIME CLOSE AFTER DE-ENERGIZATION
TCAE	TIME CLOSE AFTER ENERGIZATION
TDH	TOTAL DYNAMIC HEAD
TDR	TIME DELAY RELAY
TECH	TECHNICAL
TEL	TELEPHONE
TEMP	TEMPORARY, TEMPERATURE
TF	TOP FACE
TFG	TEMPERED FLOAT GLASS
TG	TEMPERED
TH	TOP-HINGED
THD	THREAD
THK	THICKNESS
THRU	THROUGH
TJB	TERMINAL JUNCTION BOX
TL	TEFLON LINED PIPE
T.O.	TIME TO OPEN, TOP OF
TOAE	TIME OPEN AFTER ENERGIZATION
TOC	TOP OF CONCRETE
TOC	TOP OF CURB
TOD	TIME ON DELAY, TOP OF DUCT TOTAL OXYGEN DEMAND
TOF	TOP OF FOOTING
TOG	TOP OF GROUT, TOP OF GRATE
T.O.P.	TOP OF PARAPET
TOS	TOP OF SLAB
TOW	TOP OF WALL
TP	TURNING POINT
TR	TRANSOM, TRUSS
TRANS	TRANSFORMER, TRANSITION
TRANSV	TRANSVERSE
TRD	TREAD
TS	TEMPORARY SEEDING, TUBE STEEL
TSHT	THRESHOLD
TSS	TOTAL SUSPENSION SOLIDS
TST	TOP OF STEEL
TTC	TELEPHONE TERMINAL CABINET
TTD	TOILET TISSUE DISPENSER
TU-X	TREATMENT UNIT NO. X
TURB	TURBIDITY
TWP	TRANSLUCENT WALL PANEL
TX	TRANSFORMER
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIT SUBSTATION
UVR	UNDER VOLTAGE RELAY
V	VENT, VALVE
V	VOLTMETER, VOLTS
VB	VAPOR BARRIER (RETARDER)
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VCT	VINYL COMPOSITION TILE
VEL	VELOCITY
VERT	VERTICAL
VHC	VOLATILE HYDROCARBONS
VIB	VIBRATION
VIF	VERIFY IN FIELD
VIN	VINYL
VINT, VT	VINYL TILE
VP	VERTICAL PIVOTED
VPS	VENEER PLASTER SYSTEM
VPC	POINT OF VERTICAL CURVATURE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT
VS	VERTICAL SLIDE
VTR	VENT THRU ROOF
VWC	VINYL WALL COVERING
W	WEST
W/	WITH
WC	WATER COLUMN
WEASTRIP	WEATHERSTRIP
WG	WIRE, WIRE GLASS
WH	WATTHOUR METER
WHD	WATTHOUR DEMAND METER
WP	WATERPROOF, WEATHERPROOF, WORKPOINT
WR	WASTE RECEPTACLE
WRB	WATER RESISTANT GWB
WS	WATER SURFACE, WATERSTOP, WELDED STEEL
WWF	WELDED WIRE FABRIC
WWPH	WET WEATHER PEAK HOUR

NOTES:

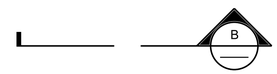
1. CONTACT ENGINEER FOR ABBREVIATIONS USED BUT NOT SHOWN ON THIS DRAWING.

SECTION / DETAIL DESIGNATIONS

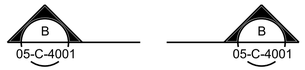


DRAWING TITLE
SCALE

ON DRAWING WHERE ONLY A TITLE IS REQUIRED WITH NO REFERENCE (eg: ELEVATIONS)



SECTION CALLOUT WHERE SECTION IS ON THE SAME SHEET AND CUT EXTENDS TO A FIXED LIMIT



SECTION CALLOUT WHERE SECTION IS ON ANOTHER SHEET AND CUT EXTENDS THROUGHOUT ENTIRE SHEET

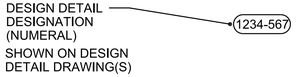
GRID LINE INDICATOR

KEYNOTE NUMBER

REVISION / ADDENDA NUMBER

NORTH ARROW

DESIGN DETAIL DESIGNATION



NOTES:

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2. THE TERM STANDARD DETAIL, OR A FORM OF IT, IS SYNOMONOUS WITH DESIGN DETAIL. THE DESIGN DETAILS REPRESENT THE CHARACTER AND NATURE OF THE WORK REQUIRED THROUGHOUT THE PROJECT. ALL ASSOCIATED WORK SHALL BE IN ACCORDANCE WITH THE DESIGN DETAILS SHOWN WHETHER THE DETAILS ARE SPECIFICALLY REFERENCED OR NOT.

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REGISTERED PROFESSIONAL ENGINEER
51509PE
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OREGON
FEBRUARY 8, 2006
ROBERT BRADY FULLER
EXP. 12/31/2023

NO.	DATE	DSGN	DR	CHK	REVISION	APVD	BY	APVD
		T DYE	S BRENNWALD	T DYE				B FULLER

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GENERAL
ABBREVIATIONS AND GENERAL LEGEND

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CONTRACT NO.: 2022-001
VERIFY SCALE
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DATE	MARCH 2022
PROJ	D3504800
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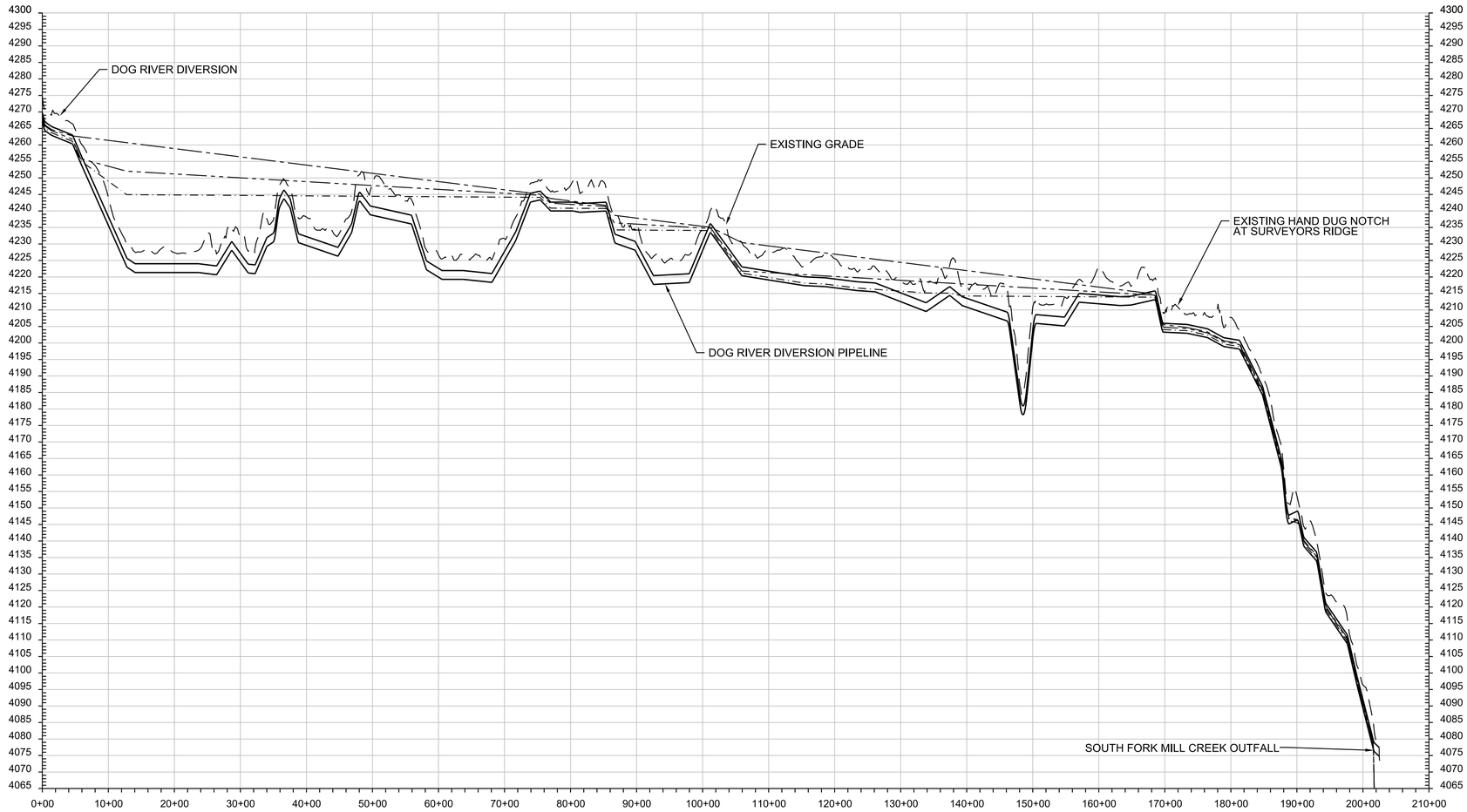
SHEET	4 of 76



HYDRAULIC PROFILE

HORIZONTAL SCALE: 1"=1000'
VERTICAL SCALE: 1"=20'

0 1000 2000 3000
Scale In Feet
HORIZONTAL: 1"=1000'
VERTICAL: 1"=20'

LEGEND

- HIGH FLOW - 26.3 CFS
- AVERAGE FLOW - 17.4 CFS
- LOW FLOW - 5.3 CFS

REGISTERED PROFESSIONAL ENGINEER
51509PE
Digital Signature
OREGON
FEBRUARY 8, 2005
ROBERT BRADY FULLER
EXP. 12/31/2023

NO.	DATE	DSGN	DR	CHK	APVD
REVISION		A SITTEL	J PFEIFER	M BALDWIN	B FULLER
				BY	APVD

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GENERAL

HYDRAULIC PROFILE

CONTRACT NO.: 2022-001

VERIFY SCALE

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0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	01-G-0005
SHEET	5 of 76

GENERAL SITE NOTES:

1. SOURCE OF TOPOGRAPHY SHOWN ON THE CIVIL PLANS ARE BASE MAPS PROVIDED BY AKS ENGINEERING & FORESTRY, LLC(COMPLETED OCTOBER, 2021). ADDITIONAL MAPPING HAS BEEN ADDED FROM AS-BUILT DATA PROVIDED BY THE CITY OF THE DALLES. EXISTING CONDITIONS MAY VARY FROM THOSE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND ADJUST WORK PLAN ACCORDINGLY PRIOR TO BEGINNING CONSTRUCTION.
2. EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINED.
3. HORIZONTAL DATUM: SEE 05-C-0100.
4. VERTICAL DATUM: SEE 05-C-0100.
5. MAINTAIN, RELOCATE, OR REPLACE EXISTING SURVEY MONUMENTS, CONTROL POINTS, AND STAKES WHICH ARE DISTURBED OR DESTROYED. PERFORM THE WORK TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENT(S) IN A TIMELY MANNER, AND AT THE CONTRACTOR'S EXPENSE.
6. STAGING AREA SHALL BE FOR CONTRACTOR'S EMPLOYEE PARKING, CONTRACTOR'S TRAILERS AND ON-SITE STORAGE OF MATERIALS.
7. ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.
8. SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
9. UNLESS OTHERWISE NOTED, ALL DISTURBED WETLANDS SHALL BE SEEDED PER SECTION 32 92 00.
10. IMPLEMENT AND MAINTAIN EROSION CONTROL DEVICES DURING CONSTRUCTION. EROSION CONTROL MEASURES SHOWN ON EROSION CONTROL DRAWINGS ARE THE MINIMUM REQUIRED.
11. TAKE ALL OTHER MEASURES TO POSITIVELY PRECLUDE EROSION MATERIALS FROM LEAVING THE SITE. CONTRACTOR TO SUBMIT EROSION CONTROL PLAN.
12. BURNING OF DEBRIS IS NOT ALLOWED.
13. INSTALL CONSTRUCTION STAKING FOR PIPE ALIGNMENT ON MAXIMUM 50' INTERVALS.
14. PROVIDE SIGNAGE AT ALL ROAD AND TRAIL CROSSINGS TO INFORM THE PUBLIC OF CONSTRUCTION WORK IN THE AREA.
15. WETLANDS SHOWN ON DRAWINGS WERE CREATED USING GIS SOFTWARE AND WERE SURVEYED USING A MAP GRADE HAND HELD GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) RECEIVER WITH SUBMETER ACCURACY USING REAL TIME DIFFERENTIAL CORRECTION. WETLAND LIMITS ARE APPROXIMATE AND NEED TO BE FIELD VERIFIED.
16. FOR FINAL RESTORATION OF 1700-690 ROAD AND 1700-014 ROAD, BLADE ROAD TO DRAIN TO ADJACENT DITCH AND REPLACE SURFACE MATERIAL WITH GRAVEL SURFACING AS SPECIFIED, SEE DETAIL (3123-115A).
17. MAINTAIN EXISTING CULVERTS, DITCHES, AND ROADBEDS IN PROJECT AREA AS NEEDED TO REDUCE SEDIMENT DELIVERY INTO WATERBODIES.
18. UNSUITABLE ROCKS, COBBLES AND BOULDERS SHALL BE BROADCAST ACROSS THE PROJECT AREA, IN NON-ROAD AREAS WITH LESS THAN 20% SLOPE, OUTSIDE OF USFS STREAM BUFFER ZONES, DELINEATED WETLANDS AND WATER AREAS, AND AREAS OF CULTURAL SIGNIFICANCE.
19. REPLACE SURFACE MATERIAL WITH GRAVEL SURFACING WHEN NEEDED TO REDUCE DUST AND SEDIMENT FLOWS, SEE DETAIL (3123-115A).
20. CONTRACTOR TO PREPARE SOIL AND UNITED STATES FOREST SERVICE WILL SEED ALL DISTURBED UPLAND AREAS OUTSIDE OF ACCESS ROADS. CONTRACTOR TO NOTIFY UNITED STATES FOREST SERVICE 30 DAYS BEFORE UPLAND SEEDING IS NEEDED.

GENERAL YARD PIPING AND UTILITIES NOTES:

1. EXISTING UNDERGROUND UTILITIES OBTAINED FROM AS-BUILTS AND FROM FIELD SURVEY. CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION PRIOR TO EXCAVATION. PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
2. PIPELINE HORIZONTAL CONTROL IS SHOWN ON DRAWING 05-C-1100, 05-C-1101, AND 05-C-1102.
3. EXISTING PIPING AND EQUIPMENT ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW PIPING AND EQUIPMENT ARE SHOWN HEAVY-LINED.
4. UNLESS OTHERWISE SHOWN, ALL PIPING SHALL HAVE A MINIMUM OF 3' COVER.
5. ALL PIPES SHALL HAVE A CONSTANT SLOPE BETWEEN INVERT ELEVATIONS UNLESS A FITTING IS SHOWN.
6. PIPE SIZE, MATERIAL, TRENCH BACKFILL, AND SURFACE RESTORATION ARE SHOWN ON THE PROFILE.
7. MINIMUM ALLOWABLE CLEARANCE BETWEEN PIPES AT CROSSINGS SHALL BE 3". CONTROLLED LOW-STRENGTH MATERIAL (CLSM) IS REQUIRED AS SHOWN ON (3123-120).
8. ALL PIPE HORIZONTAL OR VERTICAL CURVES SHALL BE DEFLECTED PIPE.
9. FOR BY PASS REQUIREMENTS, SEE 01 57 28, TEMPORARY FLOW CONTROL.

CURVE DATA

R =	RADIUS
T =	TANGENT
L =	LENGTH
PC =	POINT OF CURVE
PI =	POINT OF INTERSECTION
PT =	POINT OF TANGENCY
PRC =	POINT OF REVERSE CURVE
PVC =	POINT OF VERTICAL CURVE
PVT =	POINT OF VERTICAL TANGENCY
VPI =	VERTICAL POINT OF INTERSECTION

GENERAL NOTE:

1. THIS IS A STANDARD LEGEND SHEET. THEREFORE, NOT ALL OF THE INFORMATION SHOWN MAY BE USED ON THIS PROJECT.

CIVIL LEGEND

EXISTING	THIS CONTRACT	
× 157.7	⊗ 158.5	SPOT ELEVATION
155	155	CONTOUR LINE
	3:1	EMBANKMENT AND SLOPE
		DRAINAGEWAY OR DITCH
	CB OR (CB)	CATCH BASIN OR INLET
		TRENCH DRAIN
	OR	SIGN
	(D) OR (S)	MANHOLE
E	E	ELECTRICAL MANHOLE
H	H	ELECTRIC HANDHOLE
		POST OR GUARD POST
		GUY ANCHOR
		FIRE HYDRANT
		UTILITY POLE
		LIGHT POLE
	BM	BENCH MARK
		SURVEY CONTROL POINT OR POINT OF INTERSECTION
		BRUSH/TREE LINE
		TREE
		PROPERTY LINE
		CENTER LINE, BUILDING, ROAD, ETC.
		STAGING OR WORK AREA LIMITS
	N 1000.00 / E 1000.00	STRUCTURE, BUILDING OR FACILITY LOCATION POINT - COORDINATES
	B-1	BORING LOCATION AND NUMBER
	TP-2	TEST PIT LOCATION AND NUMBER
	P-3	PIEZOMETER LOCATION AND NUMBER
OR	OR	DEMOLITION
OR	OR	STRUCTURE, BUILDING OR FACILITY
		ASPHALT CONCRETE PAVEMENT
		GRAVEL SURFACING
		CONCRETE PAVEMENT
		CURB
		CURB AND GUTTER
		SINGLE SWING GATE
		DOUBLE SWING GATE
		SLIDING GATE
		GUARD RAIL
		CHAIN LINK FENCE
		WIRE FENCE
		CULVERT

YARD PIPING LEGEND

EXISTING	THIS CONTRACT	
		NOMINAL PIPE DIAMETER
	8" PE	PIPE USE IDENTIFICATION
8" PE	8" PE	PIPING < 30" DIAMETER
		PIPING ≧ 30" DIAMETER
		EXISTING PIPE TO BE ABANDONED
		EXISTING PIPE TO BE REMOVED
		NON-FREEZE HOSE VALVE (V-X) X = NO. IN SPECIFICATIONS
		NON-FREEZE HOSE VALVE WITH HOSE RACK (V-X) X = NO. IN SPECIFICATIONS
		INDICATOR POST VALVE
		GATE VALVE AND VALVE BOX
		BUTTERFLY VALVE AND VALVE BOX
		PLUG VALVE AND VALVE BOX
		FLEXIBLE COUPLING
		90° ELBOW UP
		90° ELBOW DOWN
		BEND < 90° UP
		BEND < 90° DOWN
		CONCENTRIC REDUCER
		CAP OR PLUG
		CLEANOUT
		FIRE HYDRANT

EROSION CONTROL LEGEND

COVER PRACTICES	SYMBOL
CONSTRUCTION ENTRANCE	
CHECK DAMS	
OUTLET PROTECTION / RIPRAP	
SEDIMENT WATTLE	
STRAW BALE BARRIER (BIOFILTER)	
SEDIMENT FENCE	

REGISTERED PROFESSIONAL ENGINEER — OREGON — JULY 8, 2008 — MATTHEW JOHN BALDWIN — 60202PE — Digital Signature — EXP: 12-31-2023

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NO.	DATE	DSGN	DR	CHK	APVD	BY	REVISION
		A SITTEL	B GYAOUROVA	M BALDWIN		B FULLER	

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Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

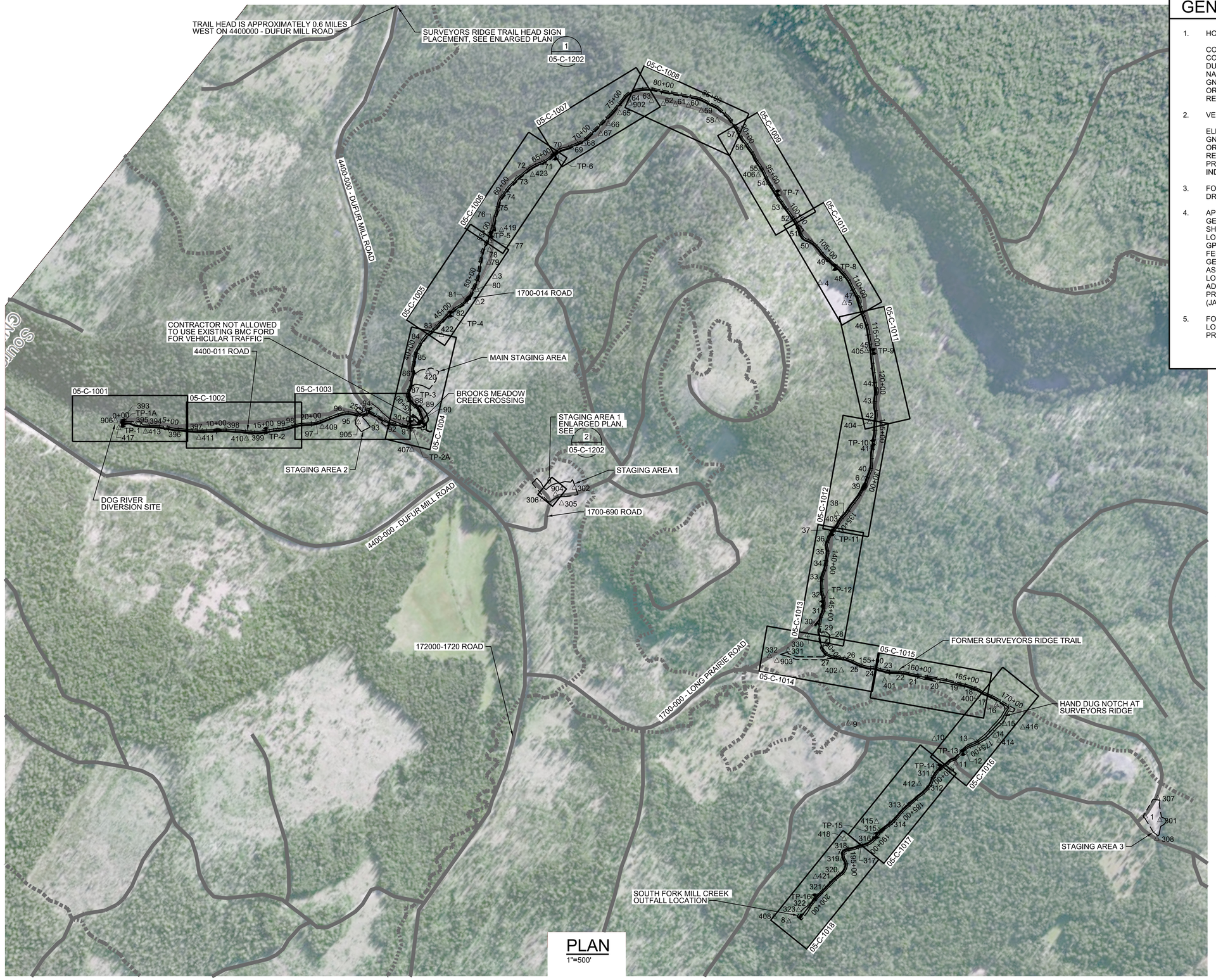
GENERAL
CIVIL LEGEND

CONTRACT NO.: 2022-001

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	01-G-0010
SHEET	6 of 76



PLAN
1"=500'

GENERAL NOTES

1. HORIZONTAL DATUM:

   COORDINATES ARE BASED ON THE OREGON COORDINATE REFERENCE SYSTEM (OCRS) DUFUR-MADRAS ZONE, NAD83(2011)EPOCH2010.0000, DERIVED BY STATIC GNSS OBSERVATIONS CONSTRAINING TO THE OREGON REAL-TIME GNSS NETWORK (ORGN) REFERENCE STATIONS PKDL, WAMC, AND WMSG.

2. VERTICAL DATUM:

   ELEVATIONS ARE NAVD88, DERIVED BY STATIC GNSS OBSERVATIONS CONSTRAINING TO THE OREGON REAL-TIME GNSS NETWORK (ORGN) REFERENCE STATIONS PKDL, WAMC, AND WMSG. PROCESSED GNSS OBSERVATIONS AGREED WITH INDEPENDENT OPUS CHECKS.

3. FOR PIPELINE SURVEY CONTROL TABLE, SEE DRAWING 05-C-0101

4. APPROXIMATE TEST PIT LOCATIONS FROM JACOBS GEOTECHNICAL INVESTIGATION ARE LISTED AND SHOWN ON PLAN AND PROFILE SHEETS. TEST PIT LOCATIONS WERE RECORDED WITH HANDHELD GPS. ACTUAL BORING LOCATIONS MAY BE UP TO 10 FEET AWAY FROM SHOWN LOCATIONS. GEOPHYSICAL SURVEYS WERE ALSO CONDUCTED AS PART OF THE GEOTECHNICAL INVESTIGATION. LOCATIONS OF THE GEOPHYSICAL SURVEYS AND ADDITIONAL GEOTECHNICAL INFORMATION IS PROVIDED IN THE GEOTECHNICAL DATA REPORT (JACOBS 2021).

5. FOR ALL ROADS ALONG PIPELINE COORIDOR WITH LONGITUDINAL GRADES STEEPER THAN 1%, PROVIDE WATERBARS, SEE DETAIL 2 05-C-1504

TEST PIT LOCATIONS

POINT NO.	NORTHING	EASTING	ELEVATION
TP-1A	331562.43	129083.79	4271.1
TP-1	332771.62	128209.52	4224.5
TP-2	333384.10	127503.07	4230.8
TP-2A	333884.43	127180.91	4225.2
TP-3	333745.88	127008.64	4244.3
TP-4	333508.70	126086.77	4234.8
TP-5	333326.65	125152.44	4245.0
TP-6	333333.58	124112.17	4230.0
TP-7	335377.47	122948.53	4214.8
TP-8	336324.14	123181.95	4237.0
TP-9	337190.33	123607.17	4213.6
TP-10	337781.19	124351.50	4222.5
TP-11	338035.71	125350.62	4219.2
TP-12	338420.60	125989.00	4220.5
TP-13	340533.89	126277.71	4209.9
TP-14	340440.93	126549.31	4209.7
TP-15	340376.25	127514.35	4156.0
TP-16	340275.53	128420.09	4095.3

0 500 1000 1500
Scale In Feet

LEGEND

DRAWING NUMBER 05-C-1001 SHEET LIMITS

FOREST SERVICE ROAD

TRAILS

REGISTERED PROFESSIONAL ENGINEER 60202PE Digital Signature OREGON JULY 8, 2005 JOHN BALDWIN MATTHEW

EXP: 12-31-2023

NO.	DATE	REVISION	BY	APVD
DSGN	A SITTEL	DR C ECKBERG CHK M BALDWIN	APVD	B FULLER

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CIVIL

Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

KEY PLAN
AND SURVEY CONTROL

ISSUED FOR CONSTRUCTION

CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING, 0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-0100
SHEET	7 of 76

POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	342440.34	125605.43	4196.34	5/8" IRON ROD WITH RED CAP
2	333665.97	125799.06	4270.86	5/8" IRON ROD WITH RED CAP
3	333636.15	125478.40	4280.92	5/8" IRON ROD WITH RED CAP
4	336314.60	123401.72	4335.28	OTHER
5	336644.36	123407.66	4296.52	OTHER
6	337942.70	124707.51	4225.15	5/8" IRON ROD WITH RED CAP
7	340230.11	127862.56	4133.76	5/8" IRON ROD WITH RED CAP
8	340232.64	128787.60	4053.65	5/8" IRON ROD WITH RED CAP
9	339423.61	126793.82	4238.30	5/8" IRON ROD WITH RED CAP
10	340223.58	126357.92	4215.02	5/8" IRON ROD WITH RED CAP
11	340557.10	126414.15	4211.44	5/8" IRON ROD WITH RED CAP
12	340554.80	126252.59	4211.98	5/8" IRON ROD WITH RED CAP
13	340634.00	126115.76	4217.82	5/8" IRON ROD WITH RED CAP
14	340695.75	125934.80	4224.71	5/8" IRON ROD WITH RED CAP
15	340695.15	125775.23	4222.61	5/8" IRON ROD WITH RED CAP
16	340504.71	125677.42	4229.39	5/8" IRON ROD WITH RED CAP
17	340392.77	125664.58	4227.95	5/8" IRON ROD WITH RED CAP
18	340235.45	125678.21	4222.59	5/8" IRON ROD WITH RED CAP
19	340081.45	125745.13	4218.58	5/8" IRON ROD WITH RED CAP
20	339883.85	125857.68	4225.29	5/8" IRON ROD WITH RED CAP
21	339677.50	125961.18	4224.99	5/8" IRON ROD WITH RED CAP
22	339505.18	126039.03	4217.52	5/8" IRON ROD WITH RED CAP
23	339407.41	126116.11	4219.26	5/8" IRON ROD WITH RED CAP
24	339273.88	126167.14	4213.13	5/8" IRON ROD WITH RED CAP
25	339151.51	126240.19	4210.56	5/8" IRON ROD WITH RED CAP
26	338971.14	126290.93	4211.95	5/8" IRON ROD WITH RED CAP
27	338836.98	126377.18	4214.71	5/8" IRON ROD WITH RED CAP
28	338714.53	126280.57	4187.93	5/8" IRON ROD WITH RED CAP
29	338631.87	126229.12	4184.86	5/8" IRON ROD WITH RED CAP
30	338497.84	126213.48	4221.65	5/8" IRON ROD WITH RED CAP
31	338477.53	126035.77	4217.76	5/8" IRON ROD WITH RED CAP
32	338365.12	125915.19	4214.43	5/8" IRON ROD WITH RED CAP
33	338254.09	125811.72	4216.33	5/8" IRON ROD WITH RED CAP
34	338195.51	125648.42	4216.44	5/8" IRON ROD WITH RED CAP
35	338132.34	125541.94	4216.88	5/8" IRON ROD WITH RED CAP
36	338056.66	125484.92	4225.51	5/8" IRON ROD WITH RED CAP
37	338032.37	125332.06	4219.32	5/8" IRON ROD WITH RED CAP
38	338019.33	125127.10	4218.42	5/8" IRON ROD WITH RED CAP
39	337996.98	124774.48	4217.35	5/8" IRON ROD WITH RED CAP
40	337937.90	124585.73	4219.23	5/8" IRON ROD WITH RED CAP
41	337809.57	124396.62	4221.26	5/8" IRON ROD WITH RED CAP
42	337657.39	124154.92	4221.90	5/8" IRON ROD WITH RED CAP
43	337531.95	124016.55	4222.53	5/8" IRON ROD WITH RED CAP
44	337419.45	123869.01	4224.80	5/8" IRON ROD WITH RED CAP
45	337149.81	123614.87	4225.65	5/8" IRON ROD WITH RED CAP
46	336984.67	123458.78	4224.36	5/8" IRON ROD WITH RED CAP
47	336678.78	123263.94	4227.13	5/8" IRON ROD WITH RED CAP
48	336476.39	123182.97	4225.76	5/8" IRON ROD WITH RED CAP
49	336232.23	123162.07	4229.65	5/8" IRON ROD WITH RED CAP
50	335983.27	123130.01	4235.80	5/8" IRON ROD WITH RED CAP
51	335836.29	123140.06	4241.21	5/8" IRON ROD WITH RED CAP
52	335680.75	123060.83	4234.74	5/8" IRON ROD WITH RED CAP
53	335527.70	123024.67	4228.84	5/8" IRON ROD WITH RED CAP
54	335243.44	122928.61	4225.25	5/8" IRON ROD WITH RED CAP
55	335092.21	122868.67	4224.67	5/8" IRON ROD WITH RED CAP
56	334817.70	122768.99	4228.43	5/8" IRON ROD WITH RED CAP
57	334679.63	122746.41	4242.49	5/8" IRON ROD WITH RED CAP
58	334418.07	122756.28	4290.27	5/8" IRON ROD WITH RED CAP
59	334225.86	122780.58	4295.28	5/8" IRON ROD WITH RED CAP
60	334087.37	122822.81	4292.62	5/8" IRON ROD WITH RED CAP
61	333975.39	122901.17	4295.59	5/8" IRON ROD WITH RED CAP
62	333871.78	122974.58	4290.59	5/8" IRON ROD WITH RED CAP
63	333755.54	123025.20	4277.27	5/8" IRON ROD WITH RED CAP
64	333572.17	123171.44	4258.02	5/8" IRON ROD WITH RED CAP
65	333579.56	123335.24	4265.75	5/8" IRON ROD WITH RED CAP
66	333555.78	123496.88	4259.58	5/8" IRON ROD WITH RED CAP
67	333560.87	123627.57	4254.29	5/8" IRON ROD WITH RED CAP
68	333489.91	123817.15	4238.71	5/8" IRON ROD WITH RED CAP
69	333412.82	123927.94	4228.28	5/8" IRON ROD WITH RED CAP
70	333323.30	124044.91	4223.88	5/8" IRON ROD WITH RED CAP
71	333274.33	124249.01	4225.50	5/8" IRON ROD WITH RED CAP
72	333208.76	124363.69	4226.21	5/8" IRON ROD WITH RED CAP
73	333170.39	124535.50	4225.21	5/8" IRON ROD WITH RED CAP
74	333161.76	124753.66	4226.76	5/8" IRON ROD WITH RED CAP
75	333211.44	124913.66	4230.41	5/8" IRON ROD WITH RED CAP
76	333301.28	125116.61	4243.19	5/8" IRON ROD WITH RED CAP
77	333359.83	125220.31	4247.79	5/8" IRON ROD WITH RED CAP
78	333416.26	125294.14	4256.09	5/8" IRON ROD WITH RED CAP
79	333495.14	125402.35	4266.16	5/8" IRON ROD WITH RED CAP
80	333575.16	125703.11	4256.99	5/8" IRON ROD WITH RED CAP

POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
81	333566.24	125874.20	4250.64	5/8" IRON ROD WITH RED CAP
82	333521.30	126020.22	4238.06	5/8" IRON ROD WITH RED CAP
83	333485.02	126279.42	4234.86	5/8" IRON ROD WITH RED CAP
84	333459.45	126489.94	4233.56	5/8" IRON ROD WITH RED CAP
85	333494.24	126635.47	4237.81	5/8" IRON ROD WITH RED CAP
86	333611.05	126790.13	4247.97	5/8" IRON ROD WITH RED CAP
87	333694.50	126992.20	4246.90	5/8" IRON ROD WITH RED CAP
88	333791.62	127045.50	4234.27	5/8" IRON ROD WITH RED CAP
89	333893.99	127049.09	4239.77	5/8" IRON ROD WITH RED CAP
90	333984.56	127113.48	4230.46	5/8" IRON ROD WITH RED CAP
91	333909.88	127259.27	4231.39	5/8" IRON ROD WITH RED CAP
92	333783.81	127327.05	4235.02	5/8" IRON ROD WITH RED CAP
93	333630.53	127434.82	4236.19	5/8" IRON ROD WITH RED CAP
94	333393.65	127400.93	4220.88	5/8" IRON ROD WITH RED CAP
95	333416.01	127497.58	4232.52	5/8" IRON ROD WITH RED CAP
96	333299.17	127568.81	4227.86	5/8" IRON ROD WITH RED CAP
97	333138.74	127829.23	4227.20	5/8" IRON ROD WITH RED CAP
98	332990.80	127991.94	4229.09	5/8" IRON ROD WITH RED CAP
99	332873.02	128141.84	4227.73	5/8" IRON ROD WITH RED CAP
301	342583.97	125540.89	4195.13	5/8" IRON ROD WITH RED CAP
302	335659.29	126671.16	4331.67	5/8" IRON ROD WITH RED CAP
303	331766.56	121615.08	4267.19	MAG NAIL
304	331646.99	121912.05	4283.49	MAG NAIL
305	335658.04	126880.88	4328.74	5/8" IRON ROD WITH RED CAP
306	335474.48	126975.04	4320.27	5/8" IRON ROD WITH RED CAP
307	342422.12	125377.15	4188.73	5/8" IRON ROD WITH RED CAP
308	342680.77	125710.90	4200.11	5/8" IRON ROD WITH RED CAP
311	340441.72	126646.36	4206.30	5/8" IRON ROD WITH RED CAP
312	340487.25	126804.04	4199.95	5/8" IRON ROD WITH RED CAP
313	340421.69	127102.48	4187.24	5/8" IRON ROD WITH RED CAP
314	340415.22	127325.96	4168.11	5/8" IRON ROD WITH RED CAP
315	340369.18	127460.05	4152.08	5/8" IRON ROD WITH RED CAP
316	340381.03	127570.26	4152.39	5/8" IRON ROD WITH RED CAP
317	340325.87	127694.23	4144.15	5/8" IRON ROD WITH RED CAP
318	340239.89	127810.52	4140.11	5/8" IRON ROD WITH RED CAP
319	340258.18	127927.23	4123.76	5/8" IRON ROD WITH RED CAP
320	340327.46	128079.08	4121.31	5/8" IRON ROD WITH RED CAP
321	340302.62	128282.05	4109.41	5/8" IRON ROD WITH RED CAP
322	340293.28	128525.83	4092.55	5/8" IRON ROD WITH RED CAP
323	340238.36	128631.68	4072.26	5/8" IRON ROD WITH RED CAP
330	338512.54	126343.84	4222.84	5/8" IRON ROD WITH RED CAP
331	338453.71	126589.44	4235.50	5/8" IRON ROD WITH RED CAP
332	338343.47	126762.89	4257.83	5/8" IRON ROD WITH RED CAP
393	331496.84	129124.30	4277.68	5/8" IRON ROD WITH RED CAP
394	331688.19	129027.16	4270.58	5/8" IRON ROD WITH RED CAP
395	331800.99	128950.42	4268.35	5/8" IRON ROD WITH RED CAP
396	331969.31	128849.21	4264.94	5/8" IRON ROD WITH RED CAP
397	332270.53	128645.71	4251.56	5/8" IRON ROD WITH RED CAP
398	332443.85	128483.41	4237.25	5/8" IRON ROD WITH RED CAP
399	332675.62	128338.77	4228.17	5/8" IRON ROD WITH RED CAP
400	340289.20	125742.05	4248.79	5/8" IRON ROD WITH RED CAP
401	339438.63	126206.50	4234.52	5/8" IRON ROD WITH RED CAP
402	339019.86	126408.36	4228.02	5/8" IRON ROD WITH RED CAP
403	337959.75	125168.01	4234.68	5/8" IRON ROD WITH RED CAP
404	337626.32	124208.69	4243.38	5/8" IRON ROD WITH RED CAP
405	337138.91	123651.60	4243.67	5/8" IRON ROD WITH RED CAP
406	335109.75	122933.03	4251.95	5/8" IRON ROD WITH RED CAP
407	334090.54	127423.38	4266.18	5/8" IRON ROD WITH RED CAP
408	340083.69	128843.39	4052.15	5/8" IRON ROD WITH RED CAP
409	333214.26	127825.79	4241.34	5/8" IRON ROD WITH RED CAP
410	332675.93	128415.22	4245.25	5/8" IRON ROD WITH RED CAP
411	332284.17	128719.18	4268.54	5/8" IRON ROD WITH RED CAP
412	340395.07	126821.65	4200.38	5/8" IRON ROD WITH RED CAP
413	331811.97	129019.15	4285.03	5/8" IRON ROD WITH RED CAP
414	340758.32	125946.43	4226.84	5/8" IRON ROD WITH RED CAP
415	340294.70	127406.81	4163.27	5/8" IRON ROD WITH RED CAP
416	340866.19	125685.27	4235.46	5/8" IRON ROD WITH RED CAP
417	331568.89	129164.77	4292.81	5/8" IRON ROD WITH RED CAP
418	340142.98	127756.37	4144.32	5/8" IRON ROD WITH RED CAP
419	333383.80	125056.16	4257.90	SPIKE
420	333712.69	126687.36	4265.65	5/8" IRON ROD WITH RED CAP
421	340159.87	128253.85	4107.06	5/8" IRON ROD WITH RED CAP
422	333582.39	126300.08	4253.03	5/8" IRON ROD WITH RED CAP
423	333275.11	124405.63	4238.18	5/8" IRON ROD WITH RED CAP
902	333599.88	123189.68	4263.82	OTHER
903	338432.60	126751.81	4253.95	5/8" IRON ROD WITH RED CAP
904	335548.48	126849.30	4325.23	5/8" IRON ROD WITH RED CAP
905	333477.55	127551.23	4245.38	5/8" IRON ROD WITH RED CAP
906	331566.05	129089.28	4270.98	SPIKE

REGISTERED PROFESSIONAL ENGINEER
60202PE
Digital Signature
OREGON
JULY 8, 2008
MATTHEW JOHN BALDWIN

EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	APVD
		A SITTEL	B GYAOUROVA	M BALDWIN			B FULLER

REVISION

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Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

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CIVIL

PROJECT SURVEY CONTROL TABLE

ISSUED FOR CONSTRUCTION

CONTRACT NO.: 2022-001

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-0101
SHEET	8 of 76

EROSION AND SEDIMENT CONTROL (ESC)

FOR SITES 5 TO 20 ACRES

GENERAL EROSION AND SEDIMENT CONTROL NOTES FROM THE 1200-C CONSTRUCTION STORMWATER GENERAL PERMIT

1. INCLUDE A LIST OF ALL PERSONNEL (BY NAME AND POSITION) THAT ARE RESPONSIBLE FOR THE DESIGN, INSTALLATION AND MAINTENANCE OF STORMWATER CONTROL MEASURES (E.G. ESCP DEVELOPER, BMP INSTALLER (SEE SECTION 4.10), AS WELL AS THEIR INDIVIDUAL RESPONSIBILITIES. (SECTION 4.4.C.II)
2. VISUAL MONITORING INSPECTION REPORTS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-C PERMIT REQUIREMENTS. (SECTION 6.5)
3. INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-C PERMIT REQUIREMENTS. (SECTION 6.5.Q)
4. RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. (SECTION 4.7)
5. THE PERMIT REGISTRANT MUST IMPLEMENT THE ESCP. FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A VIOLATION OF THE PERMIT. (SECTIONS 4 AND 4.11)
6. THE ESCP MUST BE ACCURATE AND REFLECT SITE CONDITIONS. (SECTION 4.8)
7. SUBMISSION OF ALL ESCP REVISIONS IS NOT REQUIRED. SUBMITTAL OF THE ESCP REVISIONS IS ONLY UNDER SPECIFIC CONDITIONS. SUBMIT ALL NECESSARY REVISION TO DEQ OR AGENT WITHIN 10 DAYS. (SECTION 4.9)
8. SEQUENCE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION. (SECTION 2.2.2)
9. CREATE SMOOTH SURFACES BETWEEN SOIL SURFACE AND EROSION AND SEDIMENT CONTROLS TO PREVENT STORMWATER FROM BYPASSING CONTROLS AND PONDING. (SECTION 2.2.3)
10. IDENTIFY, MARK, AND PROTECT (BY CONSTRUCTION FENCING OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, AND VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS. (SECTION 2.2.1)
11. PRESERVE EXISTING VEGETATION WHEN PRACTICAL AND RE-VEGETATE OPEN AREAS. RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION. IDENTIFY THE TYPE OF VEGETATIVE SEED MIX USED. (SECTION 2.2.5)
12. MAINTAIN AND DELINEATE ANY EXISTING NATURAL BUFFER WITHIN THE 50-FEET OF WATERS OF THE STATE. (SECTION 2.2.4)
13. INSTALL PERIMETER SEDIMENT CONTROL, INCLUDING STORM DRAIN INLET PROTECTION AS WELL AS ALL SEDIMENT BASINS, TRAPS, AND BARRIERS PRIOR TO LAND DISTURBANCE. (SECTIONS 2.1.3)
14. CONTROL BOTH PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND DOWNSTREAM CHANNELS AND STREAMBANKS. (SECTIONS 2.1.1. AND 2.2.16)
15. CONTROL SEDIMENT AS NEEDED ALONG THE SITE PERIMETER AND AT ALL OPERATIONAL INTERNAL STORM DRAIN INLETS AT ALL TIMES DURING CONSTRUCTION, BOTH INTERNALLY AND AT THE SITE BOUNDARY. (SECTIONS 2.2.6 AND 2.2.13)
16. ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING CONCRETE WORK. (SECTION 2.2.14)
17. APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES. TEMPORARY OR PERMANENT STABILIZATIONS MEASURES ARE NOT REQUIRED FOR AREAS THAT ARE INTENDED TO BE LEFT UNVEGETATED, SUCH AS DIRT ACCESS ROADS OR UTILITY POLE PADS. (SECTIONS 2.2.20 AND 2.2.21)
18. ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS. (SECTION 2.3.7)
19. KEEP WASTE CONTAINER LIDS CLOSED WHEN NOT IN USE AND CLOSE LIDS AT THE END OF THE BUSINESS DAY FOR THOSE CONTAINERS THAT ARE ACTIVELY USED THROUGHOUT THE DAY. FOR WASTE CONTAINERS THAT DO NOT HAVE LIDS, PROVIDE EITHER (1) COVER (E.G., A TARP, PLASTIC SHEETING, TEMPORARY ROOF) TO PREVENT EXPOSURE OF WASTES TO PRECIPITATION, OR (2) A SIMILARLY EFFECTIVE MEANS DESIGNED TO PREVENT THE DISCHARGE OF POLLUTANTS (E.G., SECONDARY CONTAINMENT). (SECTION 2.3.7)
20. PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING BMPS SUCH AS: CONSTRUCTION ENTRANCE, GRAVELED (OR PAVED) EXITS AND PARKING AREAS, GRAVEL ALL UNPAVED ROADS LOCATED ONSITE, OR USE AN EXIT TIRE WASH. THESE BMPS MUST BE IN PLACE PRIOR TO LAND- DISTURBING ACTIVITIES. (SECTION 2.2.7)
21. WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE. (SECTION 2.2.7.F)
22. CONTROL PROHIBITED DISCHARGES FROM LEAVING THE CONSTRUCTION SITE, I.E., CONCRETE WASH-OUT, WASTEWATER FROM CLEANOUT OF STUCCO, PAINT AND CURING COMPOUNDS. (SECTIONS 1.5 AND 2.3.9)
23. ENSURE THAT STEEP SLOPE AREAS WHERE CONSTRUCTION ACTIVITIES ARE NOT OCCURRING ARE NOT DISTURBED. (SECTION 2.2.10)
24. PREVENT SOIL COMPACTION IN AREAS WHERE POST-CONSTRUCTION INFILTRATION FACILITIES ARE TO BE INSTALLED. (SECTION 2.2.12)
25. USE BMPS TO PREVENT OR MINIMIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILLS; VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, FERTILIZER, PESTICIDES AND HERBICIDES, PAINTS, SOLVENTS, CURING COMPOUNDS AND ADHESIVES FROM CONSTRUCTION OPERATIONS. (SECTIONS 2.2.15 AND 2.3)
26. PROVIDE PLANS FOR SEDIMENTATION BASINS THAT HAVE BEEN DESIGNED PER SECTION 2.2.17 AND STAMPED BY AN OREGON PROFESSIONAL ENGINEER. (SEE SECTION 2.2.17.A)
27. IF ENGINEERED SOILS ARE USED ON SITE, A SEDIMENTATION BASIN/IMPOUNDMENT MUST BE INSTALLED. (SEE SECTIONS 2.2.17 AND 2.2.18)
28. PROVIDE A DEWATERING PLAN FOR ACCUMULATED WATER FROM PRECIPITATION AND UNCONTAMINATED GROUNDWATER SEEPAGE DUE TO SHALLOW EXCAVATION ACTIVITIES. (SEE SECTION 2.4)
29. IMPLEMENT THE FOLLOWING BMPS WHEN APPLICABLE: WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES, EMPLOYEE TRAINING ON SPILL PREVENTION AND PROPER DISPOSAL PROCEDURES, SPILL KITS IN ALL VEHICLES, REGULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHINERY, MATERIAL DELIVERY AND STORAGE CONTROLS, TRAINING AND SIGNAGE, AND COVERED STORAGE AREAS FOR WASTE AND SUPPLIES. (SECTION 2.3)
30. USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL. (SECTION 2.2.9)
31. THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS. EXERCISE CAUTION WHEN USING TIME-RELEASE FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE. (SECTION 2.3.5)
32. IF AN ACTIVE TREATMENT SYSTEM (FOR EXAMPLE, ELECTRO-COAGULATION, FLOCCULATION, FILTRATION, ETC.) FOR SEDIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MAINTENANCE PLAN (INCLUDING SYSTEM SCHEMATIC, LOCATION OF SYSTEM, LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSION DEVICE DESIGN, AND A SAMPLING PLAN AND FREQUENCY) BEFORE OPERATING THE TREATMENT SYSTEM. OBTAIN ENVIRONMENTAL MANAGEMENT PLAN APPROVAL FROM DEQ BEFORE OPERATING THE TREATMENT SYSTEM. OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS. (SECTION 1.2.9)
33. TEMPORARILY STABILIZE SOILS AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED. THE REGISTRANT IS RESPONSIBLE FOR ENSURING THAT SOILS ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR. (SECTION 2.2)
34. AS NEEDED BASED ON WEATHER CONDITIONS, AT THE END OF EACH WORKDAY SOIL STOCKPILES MUST BE STABILIZED OR COVERED, OR OTHER BMPS MUST BE IMPLEMENTED TO PREVENT DISCHARGES TO SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS. (SECTION 2.2.8)
35. SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL. (SECTION 2.1.5.B)
36. OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS): REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT AND BEFORE BMP REMOVAL. (SECTION 2.1.5.C)
37. CATCH BASINS: CLEAN BEFORE RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT. SEDIMENT BASINS AND SEDIMENT TRAPS: REMOVE TRAPPED SEDIMENTS BEFORE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT AND AT COMPLETION OF PROJECT. (SECTION 2.1.5.D)
38. WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED. INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN-UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DEPARTMENT OF STATE LANDS REQUIRED TIMEFRAME. (SECTION 2.2.19.A)
39. THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS. (SECTION 2.2.19)
40. DOCUMENT ANY PORTION(S) OF THE SITE WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED OR WILL BE TEMPORARILY INACTIVE FOR 14 OR MORE CALENDAR DAYS. (SECTION 6.5.F.)
41. PROVIDE TEMPORARY STABILIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND A TACKIFIER, LOOSE STRAW, OR AN ADEQUATE COVERING OF COMPOST MULCH UNTIL WORK RESUMES ON THAT PORTION OF THE SITE. (SECTION 2.2.20)
42. DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED. ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, ALL TEMPORARY EROSION CONTROLS AND RETAINED SOILS MUST BE REMOVED AND DISPOSED OF PROPERLY, UNLESS NEEDED FOR LONG TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE. (SECTION 2.2.21)
43. THE FOLLOWING CONDITIONS INDICATE THAT SEDIMENT HAS LEFT OR IS LIKELY TO LEAVE THE SITE AND ARE PROHIBITED: REQUIRED STABILIZATION HAS NOT BEEN INITIATED OR COMPLETED; EARTH SLIDES OR MUD FLOWS; CONCENTRATED FLOWS OF STORMWATER SUCH AS RILLS, RIVULETS, GULLIES OR CHANNELS THAT CAUSE EROSION WHEN SUCH FLOWS ARE NOT FILTERED, SETTLED, OR OTHERWISE TREATED TO REMOVE SEDIMENT; SEDIMENT LADEN OR TURBID FLOWS OF STORMWATER THAT ARE NOT FILTERED OR SETTLED TO REMOVE SEDIMENT AND TURBIDITY; DEPOSITS OF SEDIMENT AT THE CONSTRUCTION SITE IN AREAS THAT DRAIN TO UNPROTECTED STORMWATER INLETS OR TO CATCH BASINS THAT DISCHARGE TO SURFACE WATERS. INLETS AND CATCH BASINS WITH FAILING SEDIMENT CONTROLS DUE TO A LACK OF MAINTENANCE OR INADEQUATE DESIGN ARE CONSIDERED UNPROTECTED; SEDIMENT BASINS OR TRAPS WITHOUT ADEQUATE WET OR DRY STORAGE VOLUME OR SEDIMENT BASINS OR TRAPS THAT ALLOW DISCHARGE OF STORMWATER FROM BELOW THE SURFACE OF THE WET STORAGE PORTION OF THE BASIN OR TRAP; DEPOSITS OF SEDIMENT FROM THE PROJECT SITE ON ANY PROPERTY (INCLUDING PUBLIC AND PRIVATE STREETS) OUTSIDE OF THE CONSTRUCTION ACTIVITY COVERED BY THIS GENERAL PERMIT; AND DEPOSITS OF SEDIMENT FROM THE PROJECT SITE AT DISCHARGE LOCATIONS OR THE BANKS OF ANY WATERS FLOWING WITHIN OR IMMEDIATELY ADJACENT TO THE SITE.
44. POSITION PORTABLE TOILETS SO THAT THEY ARE SECURE AND WILL NOT BE TIPPED OR KNOCKED OVER, AND LOCATED AWAY FROM WATERS OF THE STATE AND STORMWATER INLETS OR CONVEYANCES. (SECTION 2.3.8)
45. DISCHARGES OF TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR OTHER RELEASE ARE PROHIBITED, CONSISTENT WITH SECTION 1.5. WHERE A LEAK, SPILL, OR OTHER RELEASE CONTAINING A HAZARDOUS SUBSTANCE OR OIL OCCURS DURING A 24-HOUR PERIOD, THE REGISTRANT MUST NOTIFY THE OREGON EMERGENCY RESPONSE SYSTEM AT (800) 452-0311 AS SOON AS THE REGISTRANT HAS KNOWLEDGE OF THE RELEASE. CONTACT INFORMATION MUST BE IN LOCATIONS THAT ARE READILY ACCESSIBLE AND AVAILABLE TO ALL EMPLOYEES. (SECTION 2.3.10)
46. USE DRIP PANS AND ABSORBENTS UNDER OR AROUND VEHICLES; AND DISPOSE OF OR RECYCLE OIL AND OILY WASTES IN ACCORDANCE WITH OTHER FEDERAL, STATE, TRIBAL, OR LOCAL REQUIREMENTS. (SECTION 2.3.10)
47. ENSURE THERE IS NO DISCHARGE OF SOAPS, SOLVENTS, OR DETERGENTS IN EQUIPMENT AND VEHICLE WASH WATER. PREVENT THE DISCHARGE OF TURBID VEHICLE WASH WATER TO WATERS OF THE STATE OR CONVEYANCES THAT LEAD TO WATERS OF THE STATE. (SECTION 2.3.3)
48. MINIMIZE MATERIAL EXPOSURE IN CASES WHERE THE EXPOSURE TO PRECIPITATION OR TO STORMWATER WILL RESULT IN A DISCHARGE OF POLLUTANTS (E.G. ELEVATE MATERIALS FROM SOIL TO PREVENT LEACHING OF POLLUTANTS). (SECTION 2.3.4)

PROJECT LOCATION

EAST OF HIGHWAY 35, NORTH OF LITTLE JOHN SNO PARK, WITHIN THE DOG RIVER MOUNTAIN RANGE, INSIDE MT. HOOD NATIONAL FOREST LAND.
COUNTY: HOOD RIVER STATE: OREGON
APPROXIMATE CENTER LAT/LONG: 45.421159° N, 121.527311° W

PROPERTY DESCRIPTION

TOWNSHIP 1 SOUTH, RANGE 10 EAST, SEC. 34
TOWNSHIP 2 SOUTH, RANGE 10 EAST, SEC. 2, 3, 4, 9, 10, 11;
WILLAMETTE MERIDIAN

DEVELOPER

OWNER: CITY OF THE DALLES
CONTACT: DAVE ANDERSON
ADDRESS: 1215 W. 1ST STREET, THE DALLES, OREGON 97058
PHONE: 541.506.2008

DESIGNER

JACOBS ENGINEERING
CONTACT: BRADY FULLER
ADDRESS: BEND, OREGON 97709
PHONE: 541.318.4716

SURVEY

AKS ENGINEERING & FORESTRY, LLC
CONTACT: JACOB POWELL
ADDRESS: 2777 NW LOLO DRIVE, SUITE 150, BEND, OREGON 97703
PHONE: 541.317.8429

PERMITTEE'S SITE INSPECTOR(S)

INSPECTORS
TBD
COMPANY
TBD

RATIONALE STATEMENT

A COMPREHENSIVE LIST OF BMP OPTIONS BASED ON DEQ GUIDANCE MANUAL HAS BEEN REVIEWED TO COMPLETE THIS ESCP. SOME BMP OPTIONS WERE NOT CHOSEN BASED ON THEIR EXPECTED EFFECTIVENESS IN EROSION PREVENTION AND SEDIMENT CONTROL GIVEN SITE-SPECIFIC CONDITIONS. NEEDED CHANGES TO THIS ESCP WILL BE MADE AS THE PROJECT PROGRESSES.

INITIAL BJ

NARRATIVE DESCRIPTIONS

EXISTING SITE CONDITIONS
THE SITE MAINLY CONSISTS OF SILTY SAND AND SILTY GRAVEL WITH COBBLES AND BOULDERS. GENERALLY, THE SOIL PROFILE CONSISTS OF UP TO A FEW FEET OF MATERIAL WITH A HIGHER FINES CONTENT (UP TO 40 PERCENT), WITH FINES CONTENT DECREASING WITH DEPTH WHILE THE AMOUNT OF COARSE-GRAINED MATERIAL INCREASING WITH DEPTH. DISTURBED AREAS CONSIST OF PRIMITIVE ROADS AND POORLY VEGETATED, SLIGHTLY PERVIOUS SOILS.
DEVELOPED CONDITIONS
CONTOURED TO MATCH EXISTING. PROJECT-GENERATED DISTURBED AREAS WILL BE REVEGATED WITH NATURAL GRASSES.
SITE SOIL CLASSIFICATION BY USCS
SILT WITH GRAVEL(ML), SILTY SAND(SM), SILTY GRAVEL(GM), AND POORLY GRADED GRAVEL WITH SILT(GP-GM)
ONSITE SOILS HAVE A MODERATE TO HIGH EROSION POTENTIAL AND A MODERATE TO HIGH INFILTRATION POTENTIAL
ALL EARTHWORK MATERIAL SHALL BE GENERATED ONSITE FROM THE GRADING OF THE ACCESS ROADS AND OPEN TRENCH EXCAVATION.
RECEIVING WATER BODY
SOUTH FORK MILL CREEK

SHEET INDEX

SEE DRAWING 01-G-0002 DRAWING INDEX.
SEE DRAWINGS 05-CE-0101 THROUGH 05-CE-1410 FOR EROSION CONTROL.

ATTENTION EXCAVATORS

OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO (2) BUSINESS DAYS BEFORE COMMENCING AN EXCAVATION. CALL 503-246-6699.

OTHER NOTES

THE GENERAL NOTES SECTION MAY REFER TO BMPS THAT ARE NOT APPLICABLE TO THIS PROJECT.

THE REGISTRANT IS REQUIRED TO MEET ALL THE CONDITIONS OF THE 1200-C PERMIT. THIS ESCP AND GENERAL CONDITIONS HAVE BEEN DEVELOPED TO FACILITATE COMPLIANCE WITH THE 1200-C PERMIT REQUIREMENTS. IN CASES OF DISCREPANCIES OR OMISSIONS, THE 1200-C PERMIT REQUIREMENTS SUPERCEDE REQUIREMENTS OF THIS PLAN

BMP MATRIX FOR CONSTRUCTION PHASES

YEAR:	2022					2023					
BMPs MONTH#:	J	J	A	S	O	A	M	J	J	A	S	O
IDENTIFY WORK LIMITS	X					X						
IDENTIFY ENVIRONMENTAL IMPACT AVOIDANCE AREAS	X					X						
IDENTIFY VEGETATIVE BUFFER ZONES TO SENSITIVE AREAS	X					X						
HOLD A PRE-CONSTRUCTION MTG TO DISCUSS ESCP	X					X						
MOBILIZE EQUIPMENT ONSITE	X					X						
SITE MONITORING	X	X	X	X	X	X	X	X	X	X	X	X
ROCK CONSTRUCTION ENTRANCES (AS NEEDED)	X	X	X	X	X	X	X	X	X	X	X	X
INSTALL PERIMETER/WORK LIMIT BMPs	X	X	X	X	X	X	X	X	X	X	X	X
STOCKPILE BMP MATERIALS	X	X	X	X	X	X	X	X	X	X	X	X
SITE CLEARING AND GRADING	X	X	X	X	X	X	X	X	X	X	X	X
STREET SWEEPING (AS NEEDED)	X	X	X	X	X	X	X	X	X	X	X	X
IN-WATER WORK AREA ISOLATION									X	X		
PERMANENT SEEDING AND PLANTING	X	X	X	X	X	X	X	X	X	X	X	X
FINAL GRADE AND ROCK	X	X	X	X	X	X	X	X	X	X	X	X
EXPECTED FINAL STABILIZATION					X							X
REMOVE TEMPORARY BMPs											X	X
REMOVE DEBRIS AND TRASH FROM SITE; DISPOSE OF PROPERLY	X	X	X	X	X	X	X	X	X	X	X	X
FINAL INSPECTION FOR PERMIT COMPLIANCE												X

PERMANENT STABILIZATION METHODS

EXPOSED SOIL AREAS SHALL BE STABILIZED WITHIN A WEEK OF THE AREA'S FINAL GRADING. SEE SPECIFICATION SECTION 32 92 00 FOR PERMANENT STABILIZATION BY RE-VEGETATION. DISTURBED AREAS NOT PERMANENTLY STABILIZED BY RE-VEGETATION MUST BE STABILIZED BY CLEAN ANGULAR ROCK MEETING THE REQUIREMENTS OF THE 2021 ODOT STANDARD SPECIFICATION 02630.11.

INSPECTION FREQUENCY SCHEDULE

ACTIVE PERIOD:
ON INITIAL DATE THAT LAND DISTRUBANCE ACTIVITIES COMMENCE. WITHIN 24 HOURS OF ANY STORM EVENT, INCLUDING RUNOFF FROM SNOW MELT, THAT RESULTS IN DISCHARGE FROM THE SITE. AT LEAST ONCE EVERY 14 DAYS, REGARDLESS OF WHETHER STORMWATER RUNOFF IS OCCURRING.
INACTIVE PERIOD:
THE INSPECTOR MAY REDUCE THE FREQUENCY OF INSPECTION IN ANY AREA OF THE SITE WHERE THE STABILIZATION STEPS IN SECTION 2.2.20 HAVE BEEN COMPLETED TO TWICE PER MONTH FOR THE FIRST MONTH, NO LESS THAN 14 CALENDAR DAYS APART, THEN ONCE PER MONTH.
SITE INACCESSIBLE DUE TO INCLEMENT WEATHER:
IF SAFE, ACCESSIBLE AND PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT DISCHARGE POINT OR DOWNSTREAM LOCATION OF THE RECIEVING WATERBODY.
PERIODS WHEN CONSTRUCTION ACTIVITIES ARE SUSPENDED AND RUNOFF IS UNLIKELY DUE TO FROZEN CONDITIONS:
VISUAL MONITORING INSPECTIONS MAY BE TEMPORARILY SUSPENDED. IMEEDIATELY RESUME MONITORING UPON THAWING, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.
PERIODS WHEN CONSTRUCTION ACTIVITIES ARE SUSPENDED AND RUNOFF IS UNLIKELY DURING FROZEN CONDITIONS:
VISUAL MONITORING INSPECTIONS MAY BE REDUCED TO ONCE A MONTH. IMMEDIATELY RESUME MONITORING UPON THAWING, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.

NATURE OF CONSTRUCTION ACTIVITY AND ESTIMATED TIME TABLE

SEASON ONE CONSTRUCTION:		
TEMPORARY ACCESS	FROM: JUNE 2022	TO: NOVEMBER 2022
UPLAND EARTHWORK	FROM: JUNE 2022	TO: NOVEMBER 2022
IN-WATER WORK	FROM: JULY 2022	TO: AUGUST 2022
FINAL STABILIZATION	NOVEMBER 2022	
SEASON TWO CONSTRUCTION:		
TEMPORARY ACCESS	FROM: APRIL 2023	TO: NOVEMBER 2023
UPLAND EARTHWORK	FROM: APRIL 2023	TO: NOVEMBER 2023
IN-WATER WORK	FROM: JULY 2023	TO: AUGUST 2023
FINAL STABILIZATION	NOVEMBER 2023	
TOTAL SITE AREA:	17.8 ACRES	
TOTAL DISTURBED AREA:	17.8 ACRES	

REGISTERED PROFESSIONAL ENGINEER — 60202PE — OREGON — JULY 8, 2016 — MATTHEW JOHN BALDWIN — Digital Signature
EXP: 12-31-2023

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	A SITTEL		A SITTEL		M BALDWIN		B FULLER	

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Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

CIVIL
PIPELINE
EROSION AND SEDIMENT CONTROL
GENERAL NOTES

ISSUED FOR CONSTRUCTION

CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 — 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-0100
SHEET	9 of 76

GENERAL NOTES

1. EROSION CONTROL PHASES:

   DEQ PHASE 1: EXISTING CONDITIONS(CLEARING AND GRUBBING)

   DEQ PHASE 2: STREET AND UTILITIES

   DEQ PHASE 3: VERTICAL CONSTRUCTION (NOT APPLICABLE)

   DEQ PHASE 4: FINAL STABILIZATION

PLAN
1"=500'

0 500 1000 1500
Scale In Feet

LEGEND

DRAWING NUMBER
05-C-1001
SHEET LIMITS

FOREST SERVICE ROAD

TRAILS

REGISTERED PROFESSIONAL ENGINEER
Digital Signature
OREGON
JULY 8, 2014
MATTHEW JOHN BALDWIN
60202PE
EXP: 12/31/2023

NO.	DATE	DSGN	DR	CHK	APVD	BY
		A SITTEL	A SITTEL	M BALDWIN	APVD	B FULLER

REVISION

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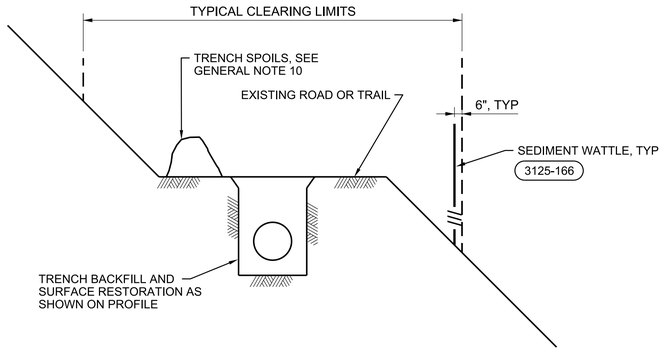
Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

PIPELINE
TEMPORARY EROSION AND SEDIMENT CONTROL OVERALL AND KEY PLAN

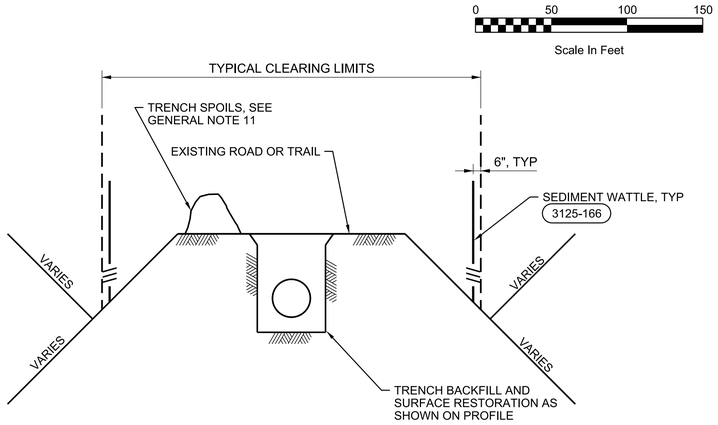
ISSUED FOR CONSTRUCTION

CONTRACT NO.:	2022-001
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING, 0 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-0101
SHEET	10 of 76



TYPICAL EROSION CONTROL SECTION

1"=50'



TYPICAL EROSION CONTROL SECTION BTWN STA 192+50 AND 202+00

1"=50'

GENERAL NOTES

1. EROSION CONTROL MEASURES SHOWN ON TYPICAL EROSION CONTROL PLAN ARE THE MINIMUM REQUIRED AND CONCEPT SHALL BE USED FOR REMAINDER OF PIPELINE WORK NOT SHOWN IN TYPICAL EROSION CONTROL PLAN.
2. FINAL EROSION CONTROL PLAN SUBMITTED BY CONTRACTOR TO BE IN ACCORDANCE WITH PERMITS LISTED IN SPECIFICATION SECTION 01 57 13.
3. STABILIZE ALL SOILS DISTURBED DURING CONSTRUCTION WITH SEEDING AND MULCHING UNTIL PERMANENT EROSION CONTROL MEASURES ARE EFFECTIVE. SHORT TERM STABILIAZATION SHALL BE IMPLEMENTED WITHIN THREE DAYS OF CONSTRUCTION COMPLETION.
4. PRESERVE EXISTING VEGETATION OUTSIDE OF CLEARING LIMITS.
5. CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND BARE GROUND ACTIVITIES AROUND WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS.
6. CONTRACTOR TO PROVIDE EMERGENCY SPILL KIT ONSITE AS SPECIFIED IN SPECIFICATION SECTION 01 57 13.
7. FLAG LIMITS OF ALL WETLANDS PRIOR TO CONSTRUCTION. PROTECT ALL WETLANDS DURING CONSTRUCTION, UNLESS OTHERWISE NOTED, WITH THE NECESSARY BMPS.
8. STAGING AREAS TO BE USED FOR STORAGE OF VEHICLES, EQUIPMENT, MATERIALS, AND FUELS. AT THE END OF EACH SHIFT, ALL PROJECT EQUIPMENT SHALL BE STORED AND FUELED IN DESIGNATED STAGING AREAS. EQUIPMENT SHALL BE INSPECTED DAILY FOR FLUID LEAKS PRIOR TO LEAVING STAGING AREAS.
9. IN ORDER TO PREVENT THE SPREAD OF INVASIVE PLANTS, ALL EQUIPMENT SHALL BE CLEANED OF PETROLEUM ACCUMULATIONS, DIRT AND WEEDS BEFORE ENTERING NATIONAL FOREST SYSTEM LANDS. THIS PRACTICE EXCLUDES SERVICE VEHICLES TRAVELING FREQUENTLY IN AND OUT OF THE PROJECT AREA THAT WOULD REMAIN ON THE ROADWAY.
10. EXCAVATED SOILS SHALL BE STOCKPILED IN LOCATIONS AS APPROVED BY OWNER AND ENGINEER. CONTRACTOR TO COVER STOCKPILES WITH PLASTIC, SEE (3125-140) IF TRENCH SPOILS ARE TO BE KEPT WITHIN CLEARING LIMITS, STORE TRENCH SPOILS ON UPHILL SIDE OF TRENCH.
11. INSPECT AND MAINTAIN ALL EROSION CONTROL MEASURES DURING CONSTRUCTION AS NECESSARY TO ENSURE THEIR CONTINUED EFFECTIVENESS UNTIL SOILS BECOME STABILIZED.
12. REMOVE ALL EROSION CONTROL MEASURES, EXCEPT FOR BIODEGRADABLE WATTLES, AT THE END OF CONSTRUCTION.
13. WORK FROM TOP OF STREAM BANK FOR INSTREAM WORK – TO THE EXTENT FEASIBLE, HEAVY EQUIPMENT WILL WORK FROM THE TOP OF THE BANK, UNLESS WORK FROM ANOTHER LOCATION (INSTREAM) WOULD RESULT IN LESS HABITAT DISTURBANCE, LESS FLOODPLAIN DISTURBANCE, LESS SEDIMENT IN THE STREAM CHANNEL, OR LESS DAMAGE TO THE OVERALL AQUATIC AND RIPARIAN ECOSYSTEM.
14. MINIMIZE TIME IN WHICH HEAVY EQUIPMENT IS IN STREAM CHANNELS, RIPARIAN AREAS, AND WETLANDS. COMPLETE EARTHWORK AS QUICKLY AS POSSIBLE.
15. ALL EQUIPMENT USED FOR INSTREAM WORK WILL BE CLEANED FOR PETROLEUM ACCUMULATIONS, DIRT, PLANT MATERIAL (TO PREVENT THE SPREAD OF NOXIOUS WEEDS), AND LEAKS REPAIRED PRIOR TO ENTERING THE PROJECT AREA. SUCH EQUIPMENT INCLUDES LARGE MACHINERY, STATIONARY POWER EQUIPMENT (E.G., GENERATORS, CRANES, ETC.), AND GAS-POWERED EQUIPMENT WITH TANKS LARGER THAN FIVE GALLONS. INSPECT DAILY FOR FLUID LEAKS BEFORE LEAVING THE VEHICLE STAGING AREA FOR OPERATION. DIAPER ALL EQUIPMENT WORKING INSTREAM OR IN WETLANDS.
16. DIAPER ALL STATIONARY POWER EQUIPMENT (E.G., GENERATORS, CRANES, STATIONARY DRILLING EQUIPMENT) OPERATED WITHIN 150FT OF ANY STREAM, WATERBODY, OR WETLAND TO PREVENT LEAKS, UNLESS SUITABLE CONTAINMENT IS PROVIDED TO PREVENT POTENTIAL SPILLS FROM ENTERING ANY STREAM, WATERBODY, OR WETLAND.
17. PROVIDE, INSPECT AND MAINTAIN TEMPORARY EROSION CONTROL BMPS AS SHOWN. FINAL LOCATIONS TO BE DETERMINED BY THE CONTRACTOR AND 1200C PERMIT. CONTRACTOR SHALL PROVIDE ADDITIONAL BMPS AS REQUIRED DEPENDING ON PERFORMANCE IN THE FIELD AND AS SITE CONDITIONS CHANGE TO SATISFY THE PERMIT REQUIREMENTS.
18. STAGING OR STORAGE OF MATERIALS OUTSIDE OF CONTRACTOR STAGING AREA WILL NOT BE ALLOWED EXCEPT FOR IMMEDIATE CONSTRUCTION ACTIVITIES.
19. TEMPORARY ACCESS POINTS – EXISTING ROADWAYS WILL BE USED WHENEVER POSSIBLE. MINIMIZE THE NUMBER OF TEMPORARY ACCESS POINTS AND TRAVEL PATHS TO LESSEN SOIL DISTURBANCE, COMPACTION AND IMPACTS TO VEGETATION. WHEN NECESSARY, TEMPORARY ACCESS POINTS WILL BE DECOMPACTED AND/OR REVEGETATED. TEMPORARY ACCESS POINTS IN WET OR FLOODED AREAS WILL BE RESTORED BY THE END OF THE APPLICABLE IN-WATER WORK PERIOD.

REGISTERED PROFESSIONAL ENGINEER
60202PE
OREGON
JULY 8, 2014
JOHN BALDWIN MATTHEW
Digital Signature
EXP: 12/31/2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	REVISION
		A SITTEL	B GYAOUROVA	M BALDWIN	APVD	B FULLER	

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PIPELINE
TYPICAL EROSION CONTROL
PIPELINE WORK ZONE

Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

CONTRACT NO.: 2022-001

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

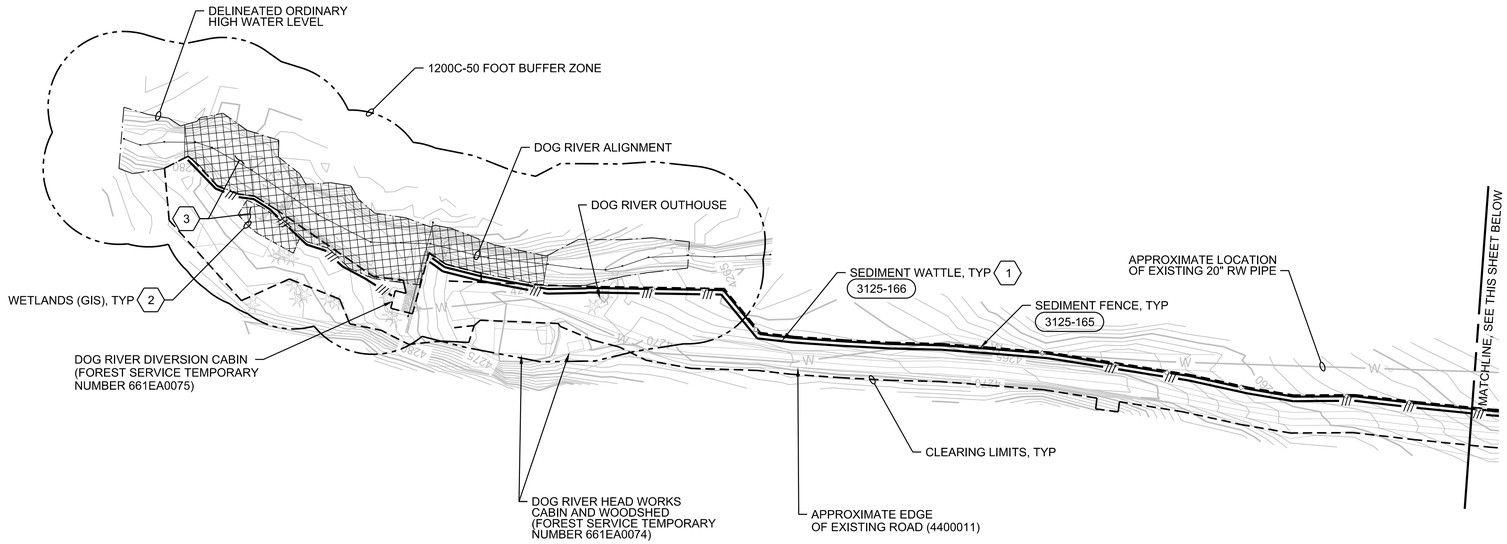
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1000
SHEET	11 of 76

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.

SHEET KEYNOTES

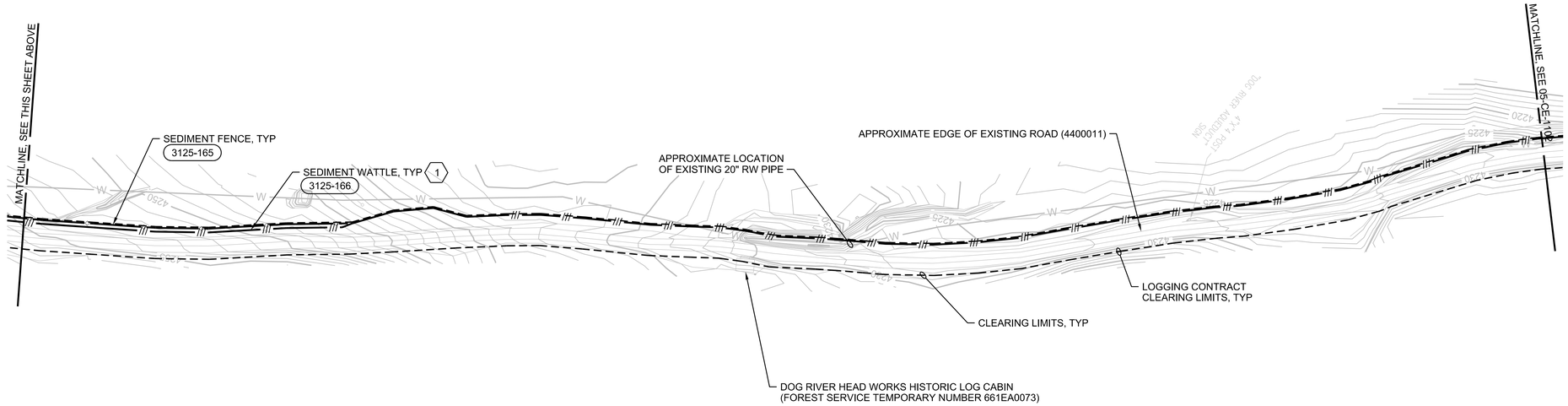
1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.
2. DO NOT DISTURB SENSITIVE/WETLAND AREAS (OUTSIDE OF KNOWN SHOWN AND PERMITTED IMPACTED AREAS). INSTALL HIGH VISIBILITY TEMPORARY FENCING TO MARK SENSITIVE AREAS AND EXISTING VEGETATION TO BE PRESERVED TO THE EXTENT POSSIBLE. SEE GENERAL NOTE 15 ON DRAWING 01-G-0010.
3. 401/404 PERMIT JURISDICTION.



PLAN

0 50 150

Scale In Feet



PLAN

0 50 100 150

Scale In Feet

REGISTERED PROFESSIONAL ENGINEER
60202PE
OREGON
JULY 8, 2014
JOHN BALDWIN
MATTHEW
Digital Signature
EXP: 12-31-2023

NO.	DESCRIPTION	DATE	BY
DSGN	A SITTEL	DR	A SITTEL
	REVISION	CHK	M BALDWIN
		APVD	APVD
			B FULLER

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Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

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Jacobs

CIVIL

PIPELINE
PHASE 1 EROSION CONTROL
PLAN 1

ISSUED FOR CONSTRUCTION

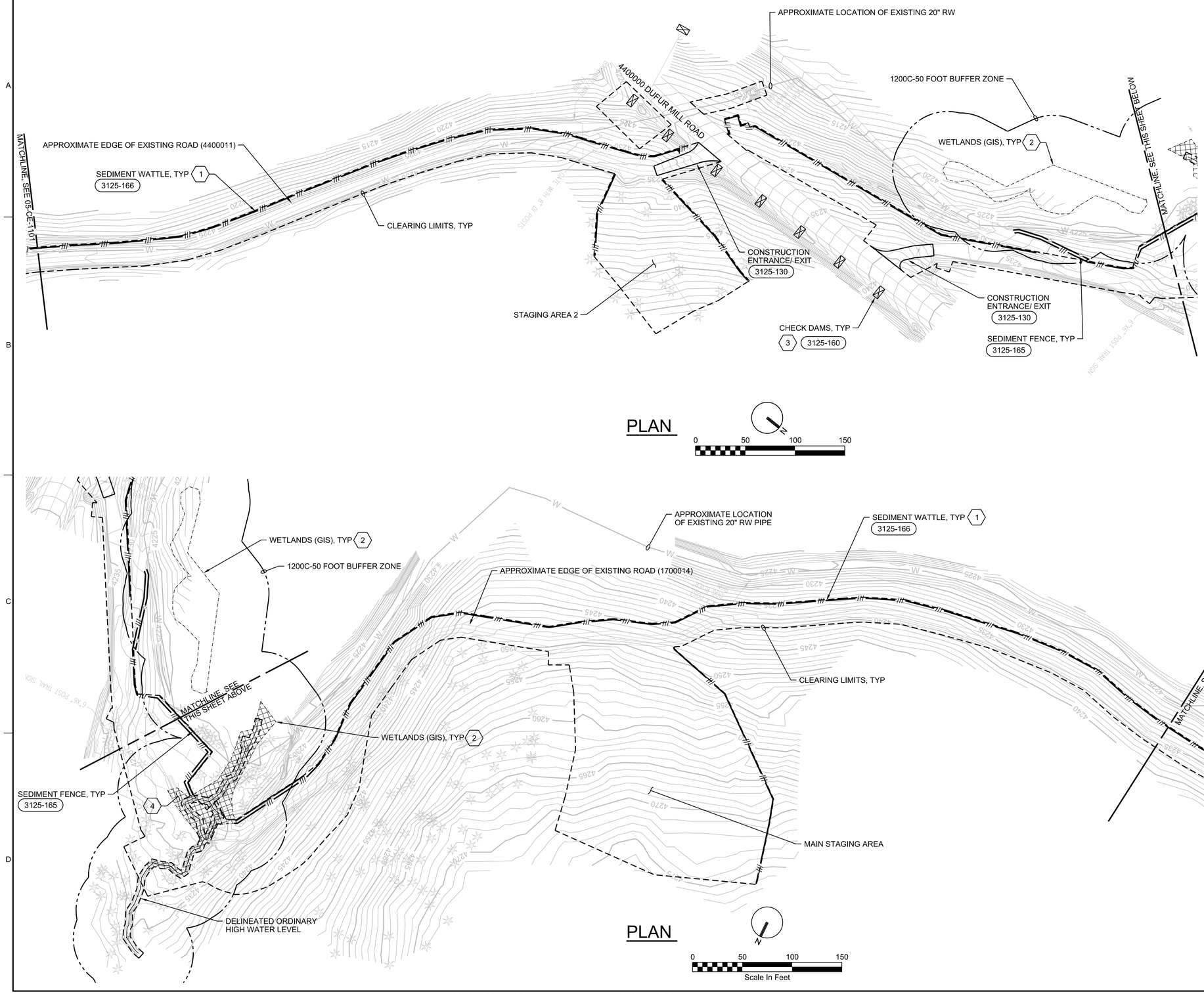
CONTRACT NO.:	2022-001
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1101
SHEET	12 of 76

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.

SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.
2. DO NOT DISTURB SENSITIVE/WETLAND AREAS (OUTSIDE OF KNOWN SHOWN AND PERMITTED IMPACTED AREAS). INSTALL HIGH VISIBILITY TEMPORARY FENCING TO MARK SENSITIVE AREAS AND EXISTING VEGETATION TO BE PRESERVED TO THE EXTENT POSSIBLE. SEE GENERAL NOTE 15 ON DRAWING 01-G-0010.
3. PROVIDE CHECK DAMS ALONG DUFUR MILL ROAD DITCH AT A MAXIMUM SPACING OF 50FT. IN LIEU OF CHECK DAMS, WEED FREE STRAW BALES ARE AN ACCEPTABLE SUBSTITUTE, SEE DETAIL 3125-170.
4. 401/404 PERMIT JURISDICTION.



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NO.	DATE	DSGN	DR	CHK	APVD	BY	REVISION	APVD
		A SITTEL	A SITTEL	M BALDWIN		B FULLER		

Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

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CIVIL
PIPELINE
PHASE 1 EROSION CONTROL
PLAN 2

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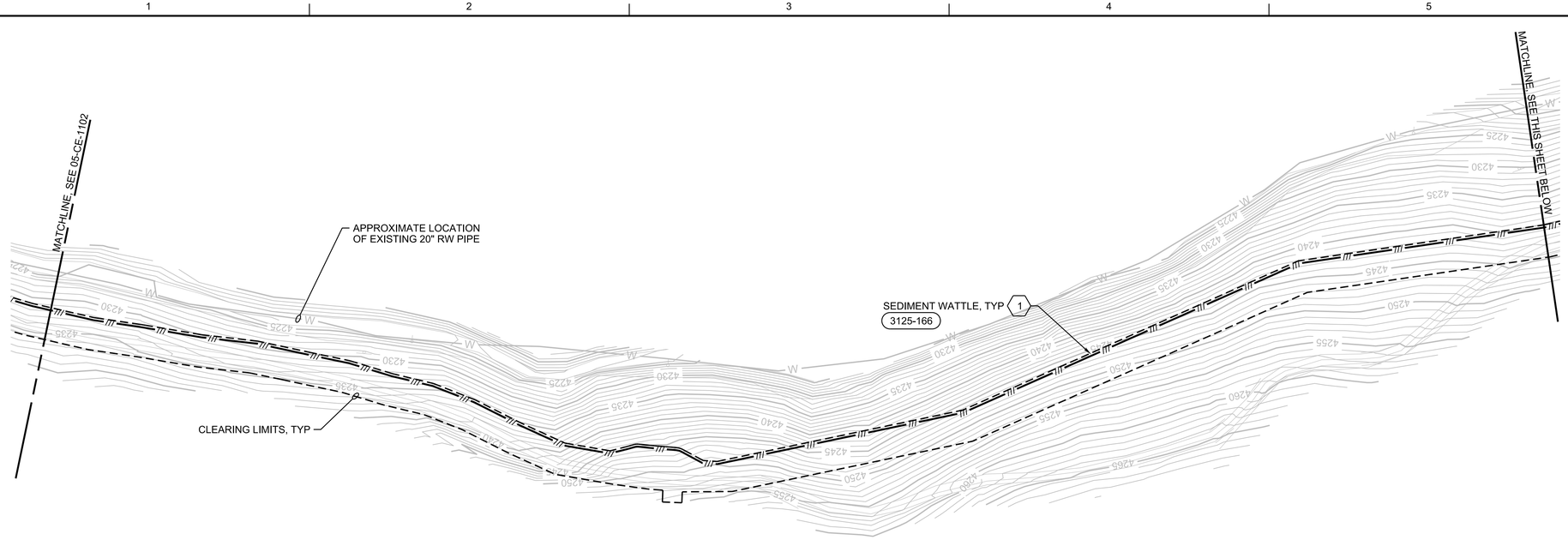
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1102
SHEET	13 of 76

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.

SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.



PLAN

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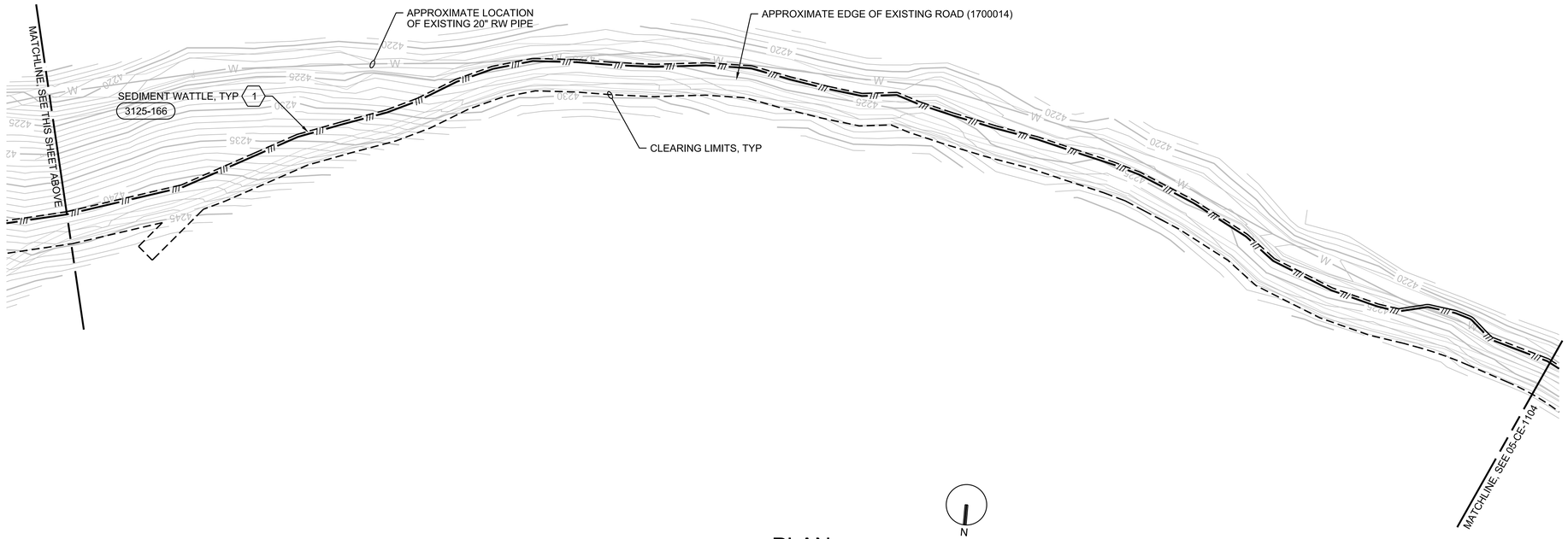
Scale In Feet



PLAN

N

0 50 100 150

Scale In Feet

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OREGON
JULY 8, 2014
MATTHEW JOHN BALDWIN
Digital Signature
EXP. 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	APVD
		A SITTEL	A SITTEL	M BALDWIN			B FULLER

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City Of The Dalles
The Dalles, OR

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CIVIL
PIPELINE
PHASE 1 EROSION CONTROL
PLAN 3

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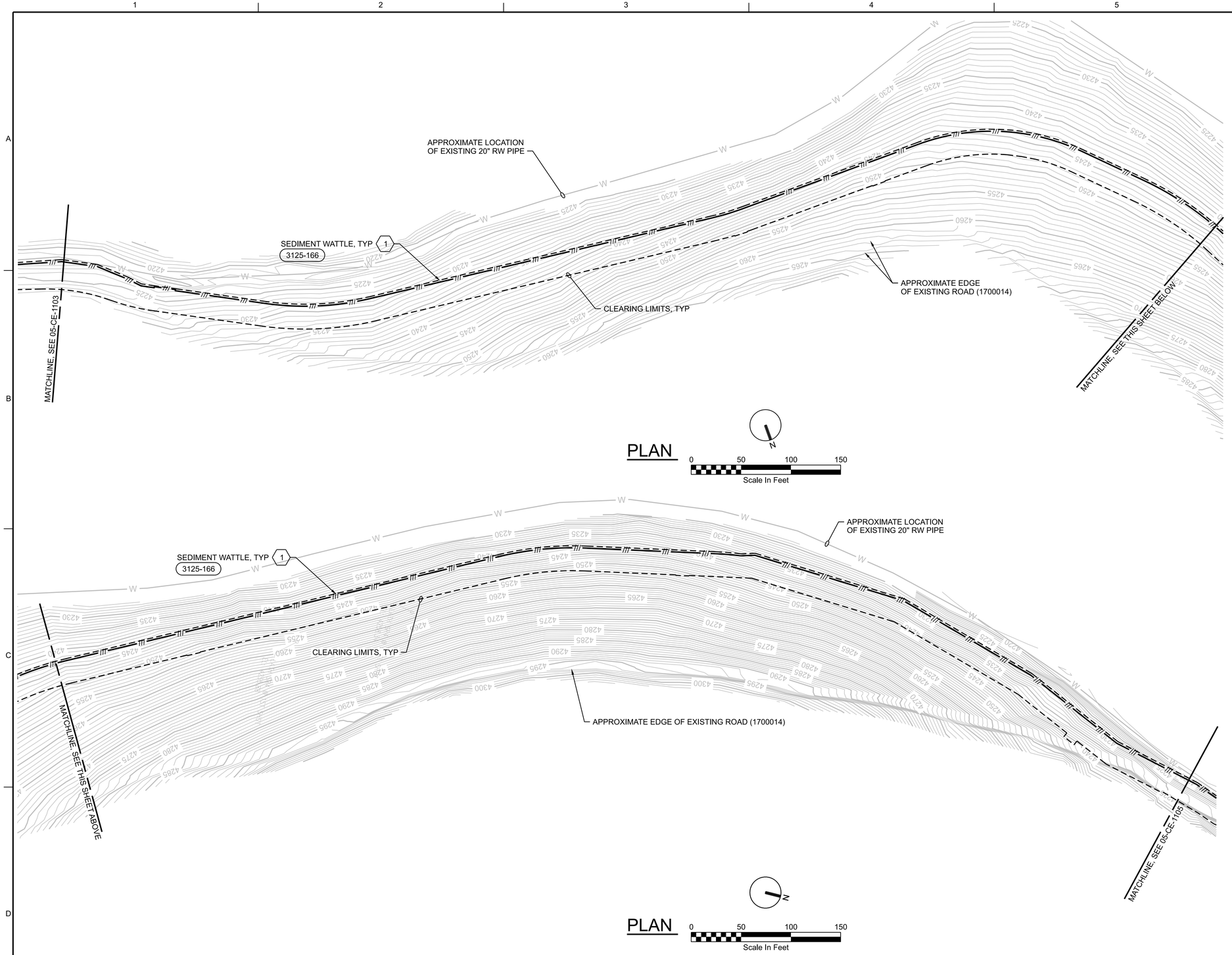
CONTRACT NO.:	2022-001
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1103
SHEET	14 of 76

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.

SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.



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OREGON
JULY 8, 2014
MATTHEW JOHN BALDWIN
Digital Signature
EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY
		A SITTEL	B KOSMATKA	M BALDWIN	APVD	B FULLER

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PIPELINE PHASE 1 EROSION CONTROL PLAN 4

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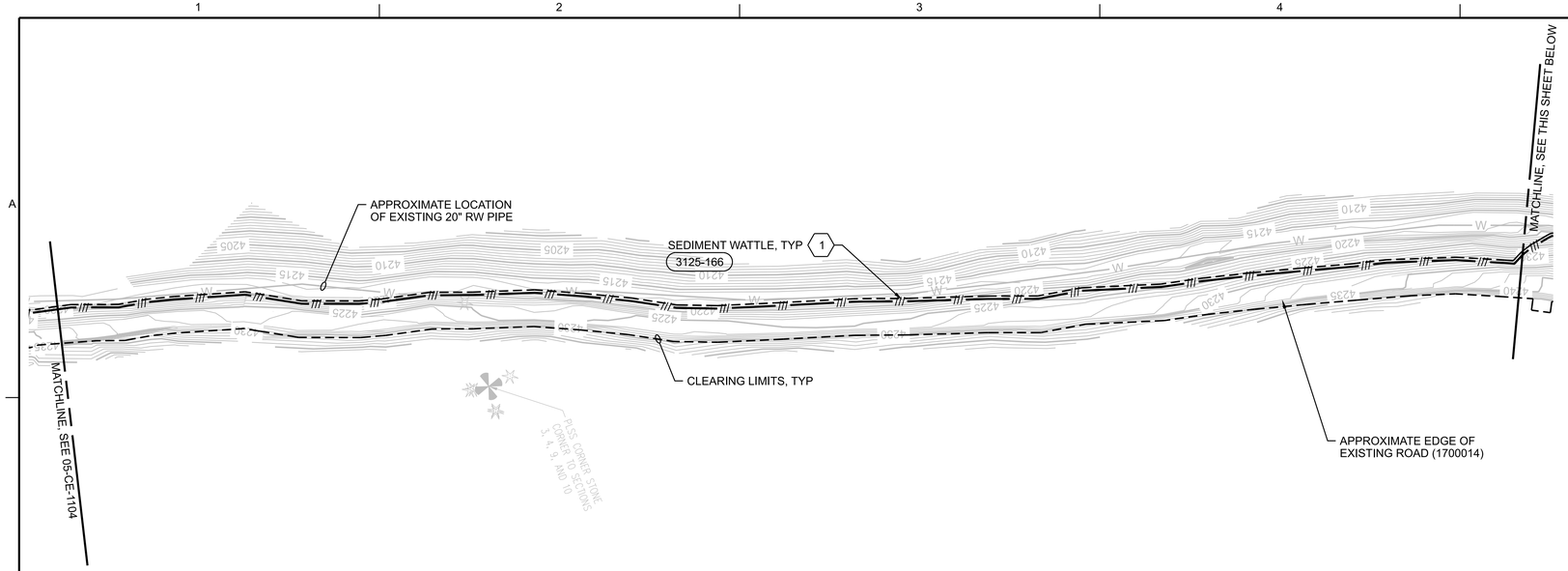
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

CONTRACT NO.: 2022-001

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1104
SHEET	15 of 76



PLAN

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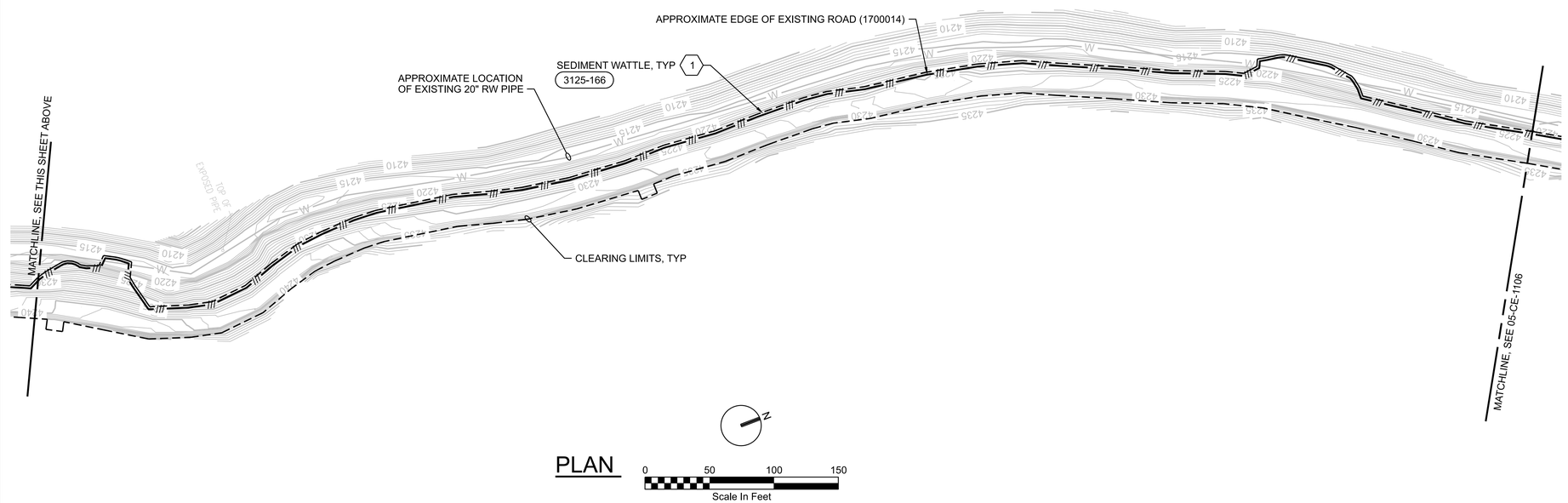
Scale In Feet



PLAN

0 50 100 150
Scale In Feet

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.

SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.

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OREGON
JULY 8, 2014
MATTHEW JOHN BALDWIN
Digital Signature
EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	APVD
		A SITTEL	B KOSMATKA	M BALDWIN			B FULLER

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City Of The Dalles
The Dalles, OR

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CIVIL
PIPELINE
PHASE 1 EROSION CONTROL
PLAN 5

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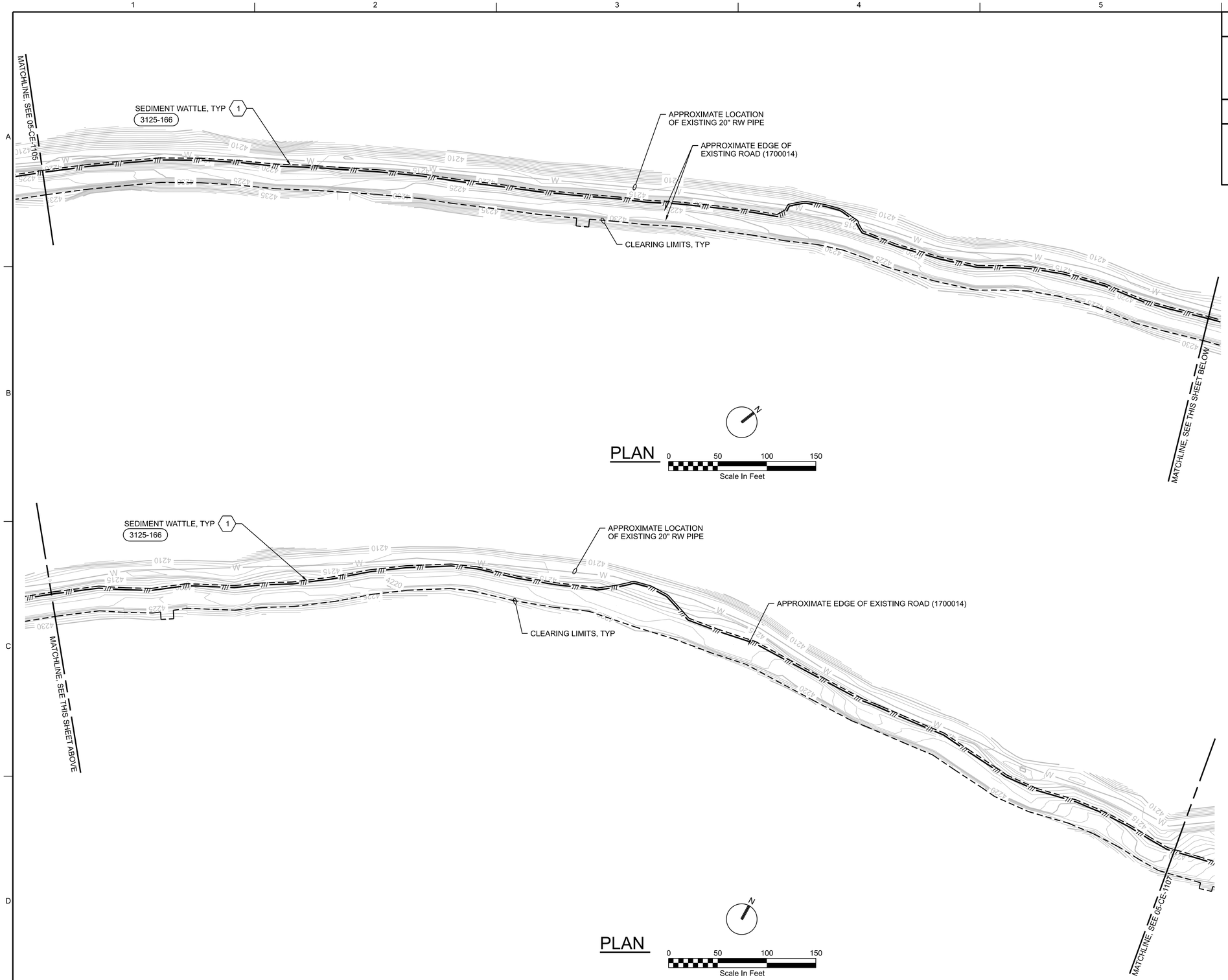
CONTRACT NO.:	2022-001
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING, 0 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1105
SHEET	16 of 76

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.

SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.



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Digital Signature
OREGON
JULY 8, 2014
MATTHEW JOHN BALDWIN
60202PE
EXP: 12-31-2023

NO.	DATE	DR	REVISION	CHK	APVD	BY	APVD
DSGN	A SITTEL	B KOSMATKA		M BALDWIN		B FULLER	

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CIVIL
PIPELINE
PHASE 1 EROSION CONTROL
PLAN 6

Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

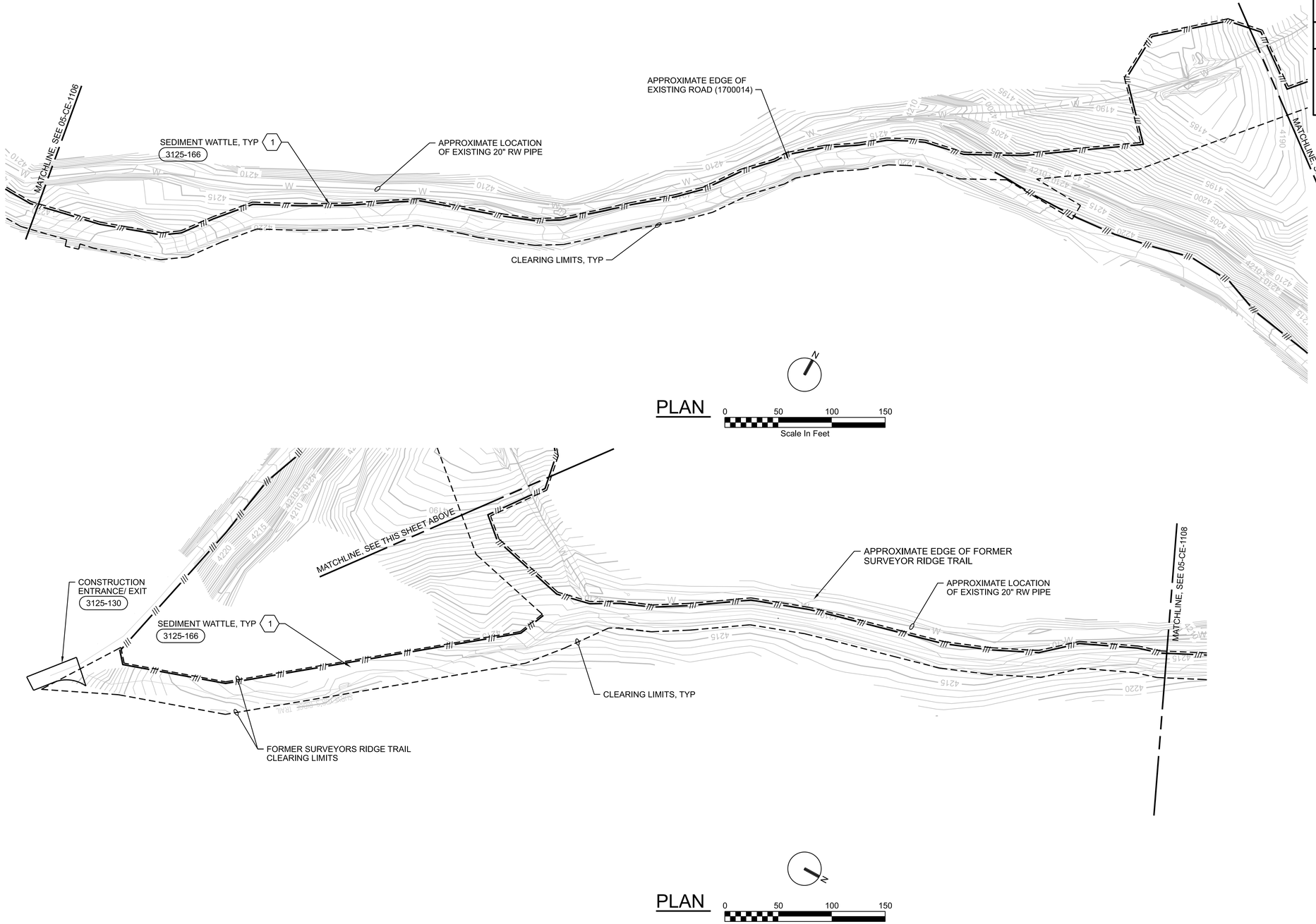
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1106
SHEET	17 of 76

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.

SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.



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OREGON
JULY 8, 2014
JOHN BALDWIN MATTHEW
Digital Signature
EXP: 12-31-2023

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DSGN	A SITTEL	B KOSMATKA		M BALDWIN	APVD	B FULLER

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Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

CIVIL
PIPELINE
PHASE 1 EROSION CONTROL
PLAN 7

CONTRACT NO.: 2022-001

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

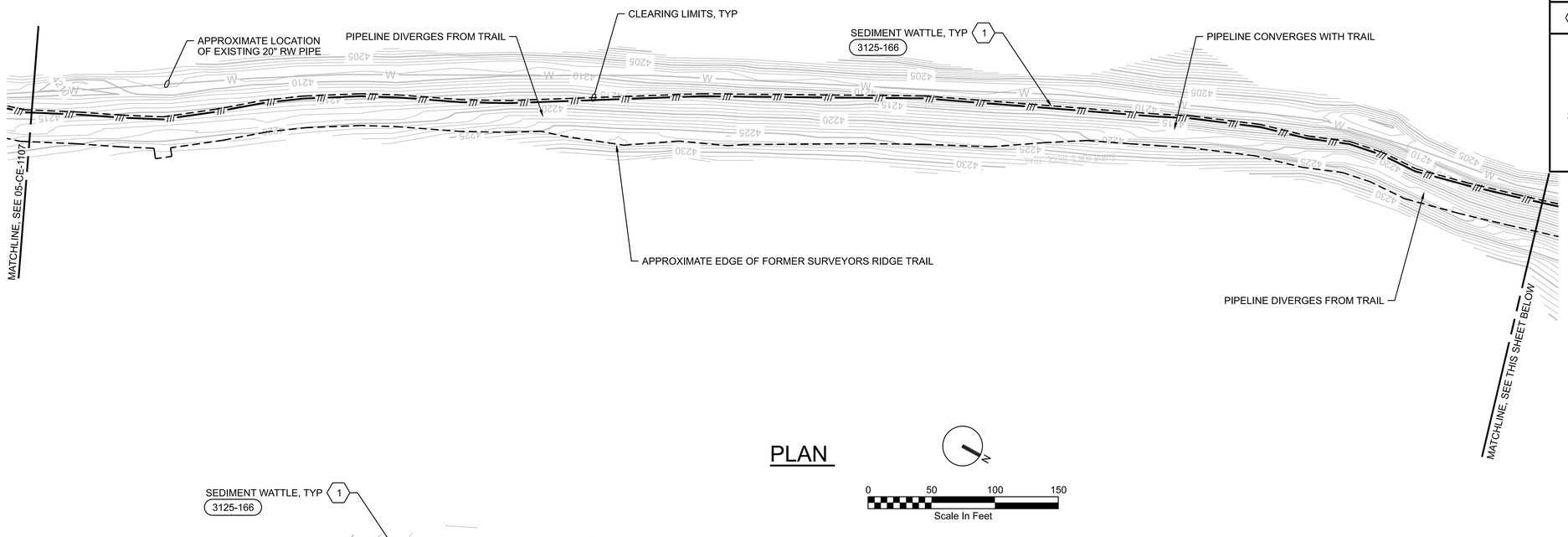
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1107
SHEET	18 of 76

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.

SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.
2. PROVIDE CHECK DAMS ALONG THE HAND DUG NOTCH AT SURVEYORS RIDGE AT A MAXIMUM SPACING OF 50FT. IN LIEU OF CHECK DAMS, WEED FREE STRAW BALES ARE AN ACCEPTABLE SUBSTITUTE, SEE DETAIL 3125-170



PLAN

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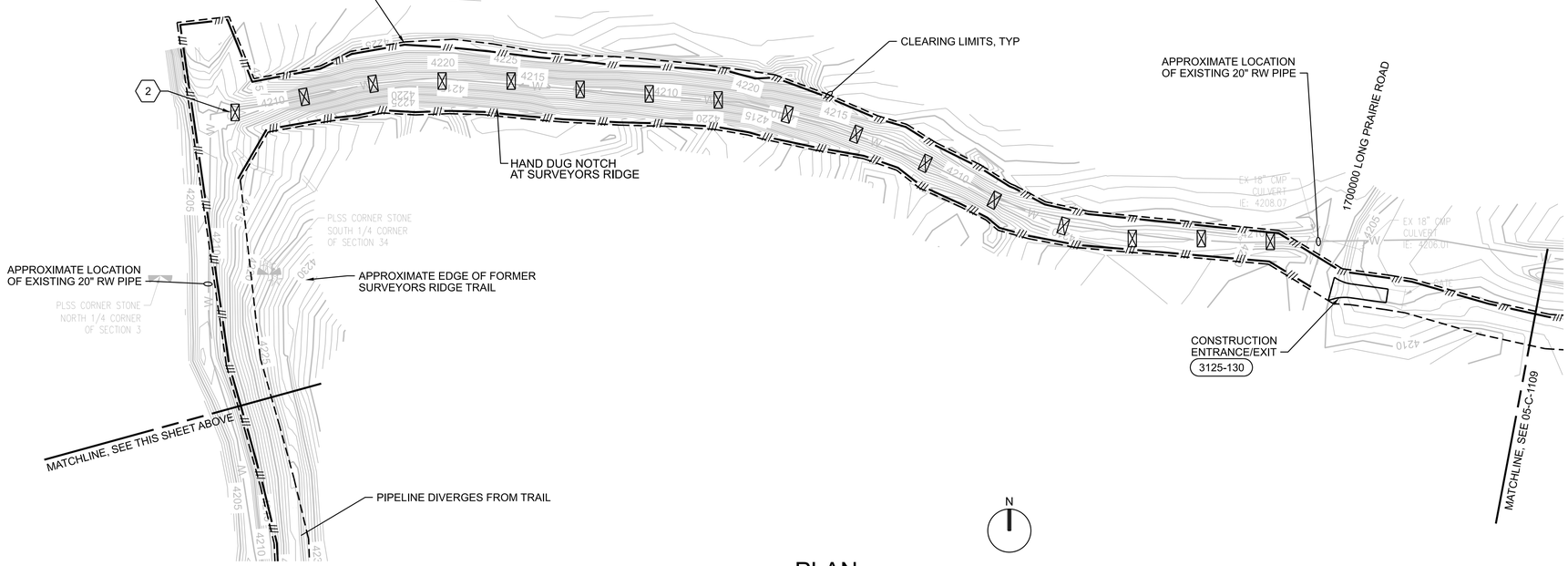
Scale In Feet



PLAN

N

0 50 100 150
Scale In Feet

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OREGON
JULY 8, 2016
JOHN BALDWIN
MATTHEW
Digital Signature
EXP: 12-31-2023

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City Of The Dalles
The Dalles, OR

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PIPELINE
PHASE 1 EROSION CONTROL
PLAN 8

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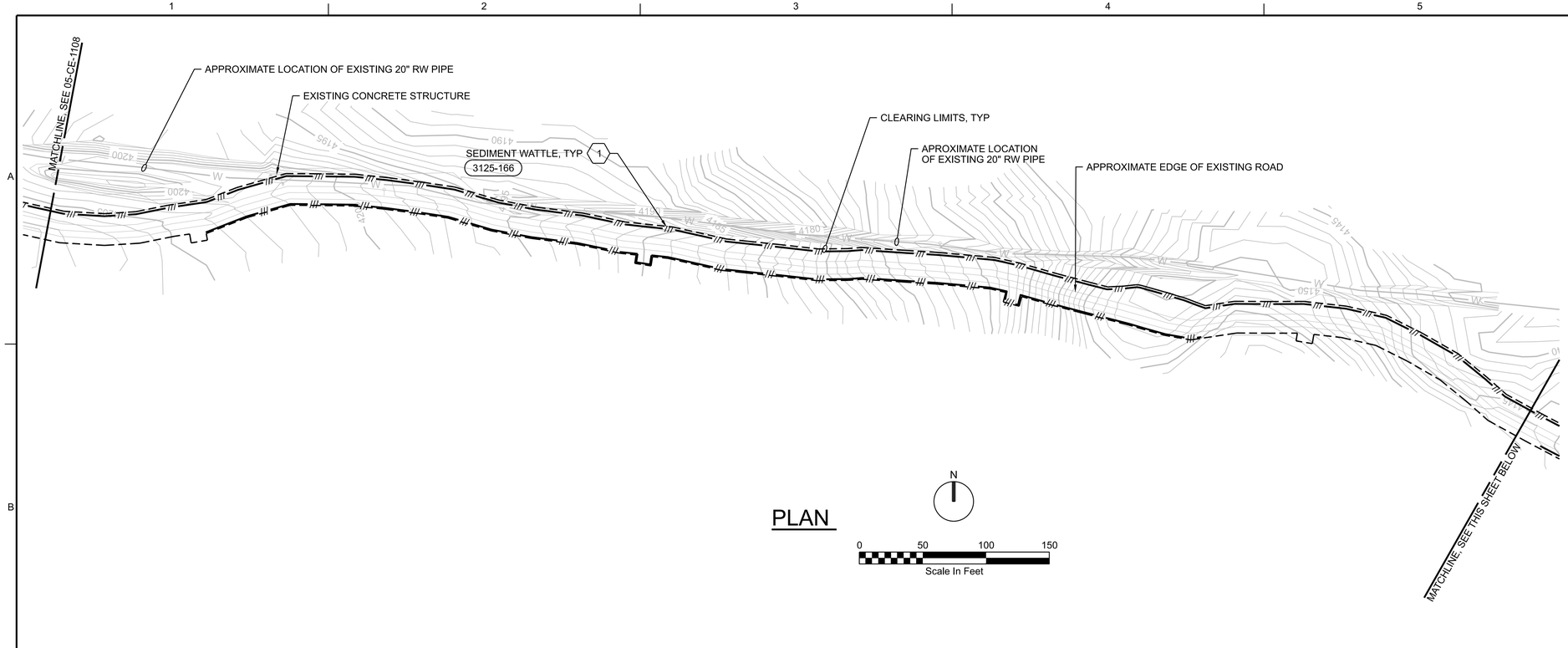
CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1108
SHEET	19 of 76



PLAN

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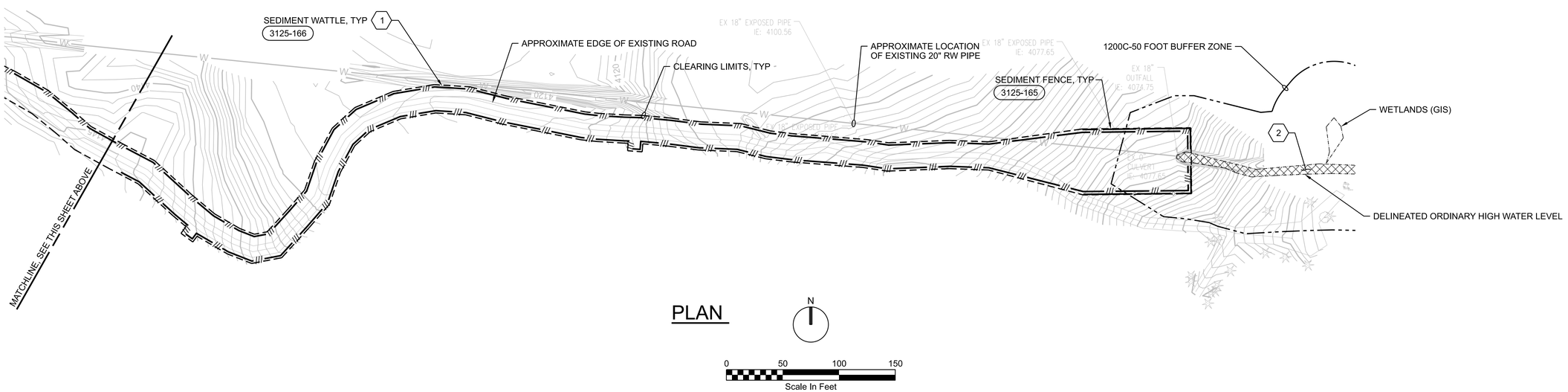
Scale In Feet



PLAN

N

0 50 100 150

Scale In Feet

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.

SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.
2. 401/404 PERMIT JURISDICTION.

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Digital Signature
OREGON
JULY 8, 2014
MATTHEW JOHN BALDWIN
60202PE
EXP: 12-31-2023

NO.	DATE	REVISION	DR	CHK	APVD	BY
DSGN	A SITTEL		B KOSMATKA	M BALDWIN	APVD	B FULLER

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Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

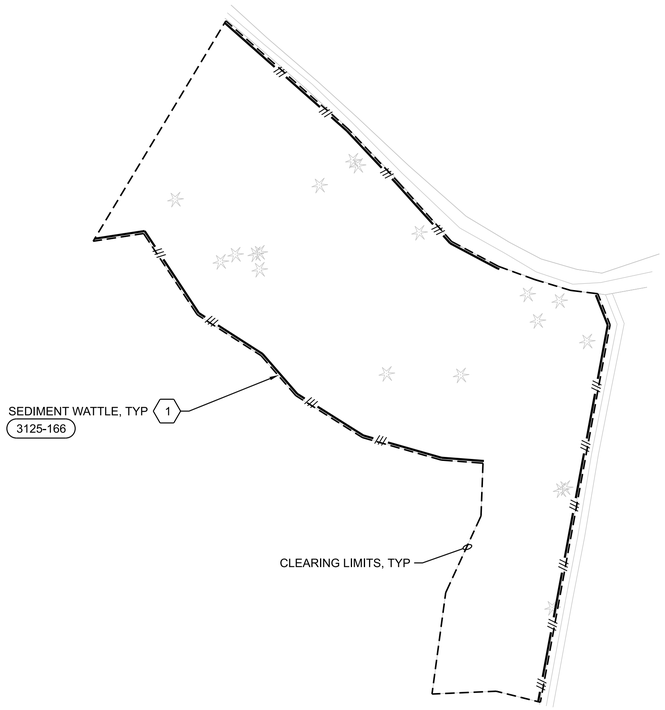
CIVIL
PIPELINE
PHASE 1 EROSION CONTROL
PLAN 9

CONTRACT NO.: 2022-001

VERIFY SCALE

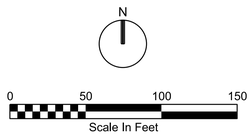
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

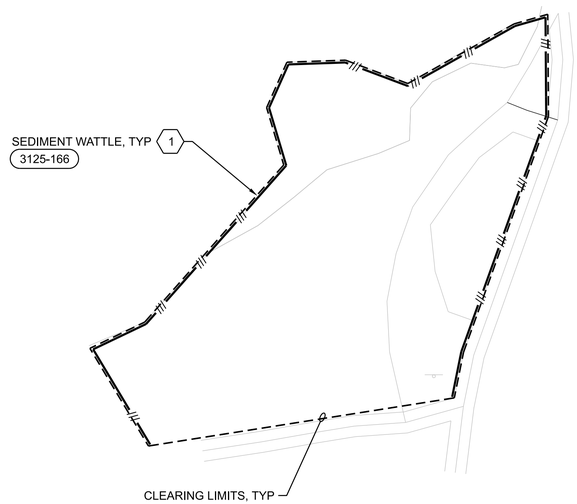
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1109
SHEET	20 of 76



STAGING AREA 1 PLAN

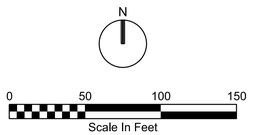
SCALE: 1"=50'





STAGING AREA 3 PLAN

SCALE: 1"=50'



GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.

SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.

REGISTERED PROFESSIONAL ENGINEER
Digital Signature
OREGON
JULY 8, 2014
MATTHEW JOHN BALDWIN
60202PE
EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD
		A SITTEL	A SITTEL	M BALDWIN	B FULLER

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CIVIL

PIPELINE
PHASE 1 EROSION CONTROL
STAGING AREAS ENLARGED PLANS

Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

CONTRACT NO.: 2022-001

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

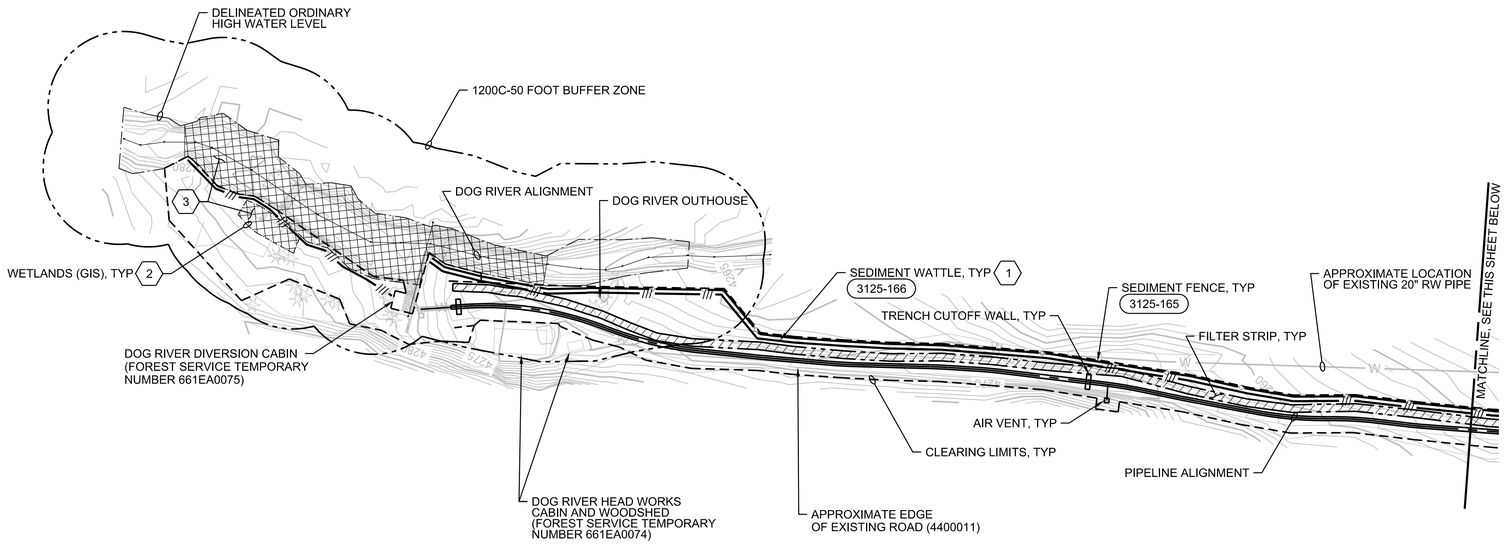
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1110
SHEET	21 of 76

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.

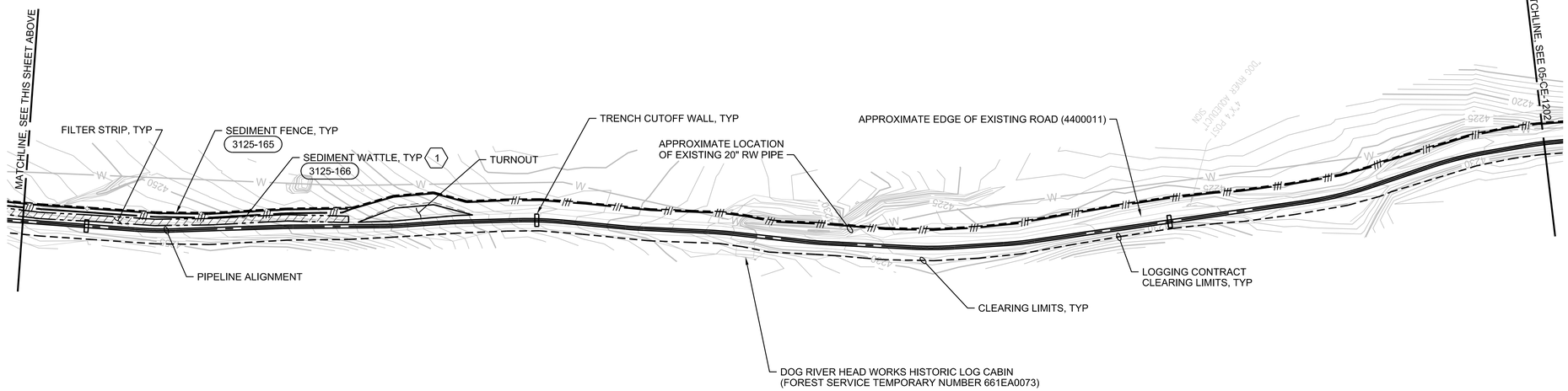
SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.
2. DO NOT DISTURB SENSITIVE/WETLAND AREAS (OUTSIDE OF KNOWN SHOWN AND PERMITTED IMPACTED AREAS). INSTALL HIGH VISIBILITY TEMPORARY FENCING TO MARK SENSITIVE AREAS AND EXISTING VEGETATION TO BE PRESERVED TO THE EXTENT POSSIBLE. SEE GENERAL NOTE 15 ON DRAWING 01-G-0010.
3. 401/404 PERMIT JURISDICTION.



PLAN

0 50 150
Scale In Feet



PLAN

0 50 100 150
Scale In Feet

NO.	DATE	DSGN	REVISION	DR	CHK	APVD	BY	APVD
		A SITTEL		A SITTEL	M BALDWIN			B FULLER

REGISTERED PROFESSIONAL ENGINEER — Digital Signature — OREGON — JULY 8, 2008 — JOHN MATTHEW BALDWIN
60202PE
EXP: 12-31-2023

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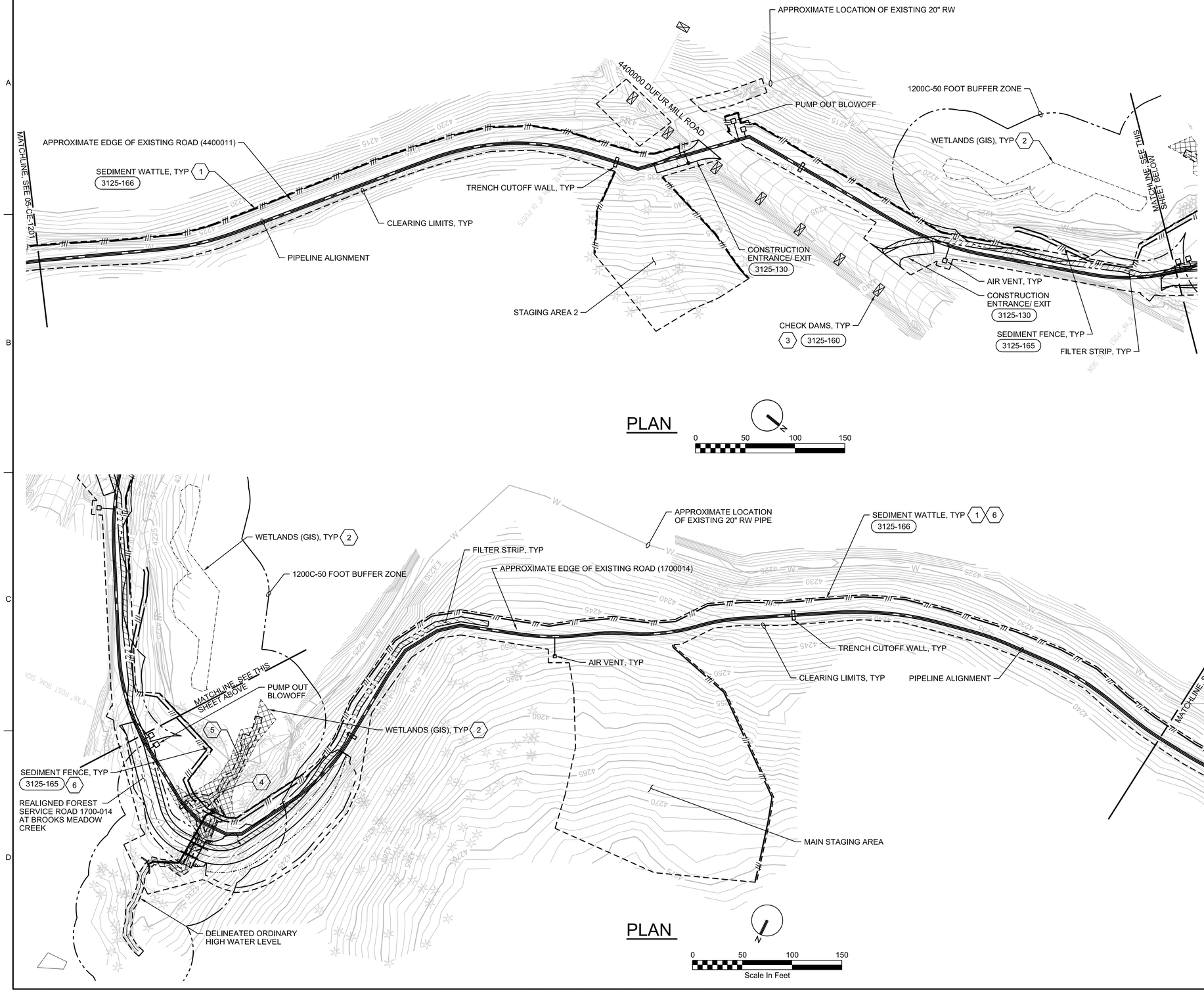
Jacobs

CIVIL
PIPELINE
PHASE 2 EROSION CONTROL
PLAN 1

ISSUED FOR CONSTRUCTION

CONTRACT NO.:	2022-001
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1201
SHEET	22 of 76



GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.

SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.
2. DO NOT DISTURB SENSITIVE/WETLAND AREAS (OUTSIDE OF KNOWN SHOWN AND PERMITTED IMPACTED AREAS). INSTALL HIGH VISIBILITY TEMPORARY FENCING TO MARK SENSITIVE AREAS AND EXISTING VEGETATION TO BE PRESERVED TO THE EXTENT POSSIBLE. SEE GENERAL NOTE 15 ON DRAWING 01-G-0010.
3. PROVIDE CHECKS DAMS ALONG DUFUR MILL ROAD DITCH AT A MAXIMUM SPACING OF 50FT. IN LIEU OF CHECK DAMS, WEED FREE STRAW BALES ARE AN ACCEPTABLE SUBSTITUTE, SEE DETAIL 3125-170.
4. BROOKS MEADOW CREEK FLOW IS SEASONAL. PROVIDE SEDIMENT FENCE AND SEDIMENT WATTLE AROUND WORK AREA. PROVIDE REMOVABLE PADS WHERE PRACTICABLE AND AT ALL CONSTRUCTION ACCESS POINTS THROUGH WETLAND AREAS TO PREVENT SOIL COMPACTION.
5. 401/404 PERMIT JURISDICTION.
6. ONLY AFTER DEWATERING OF BROOKS MEADOW CREEK HAS BEEN COMPLETED, PLACE SEDIMENT FENCE AND SEDIMENT WATTLE WITHIN BROOKS MEADOW CREEK DURING PHASE 2 EROSION CONTROL.

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 8, 2014
JOHN BALDWIN
MATTHEW
60202PE
Digital Signature
EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	APVD
		A SITTEL	A SITTEL	M BALDWIN		REVISION	B FULLER

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Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

Jacobs

CIVIL
PIPELINE
PHASE 2 EROSION CONTROL
PLAN 2

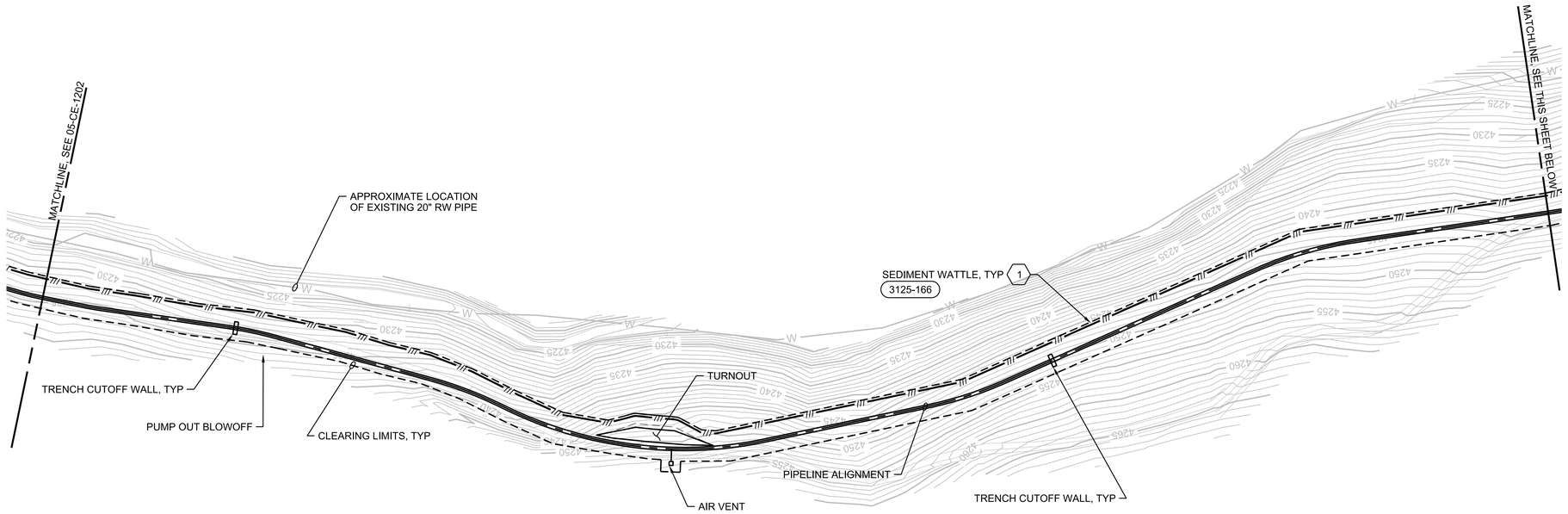
CONTRACT NO.:	2022-001
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1202
SHEET	23 of 76

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.

SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.

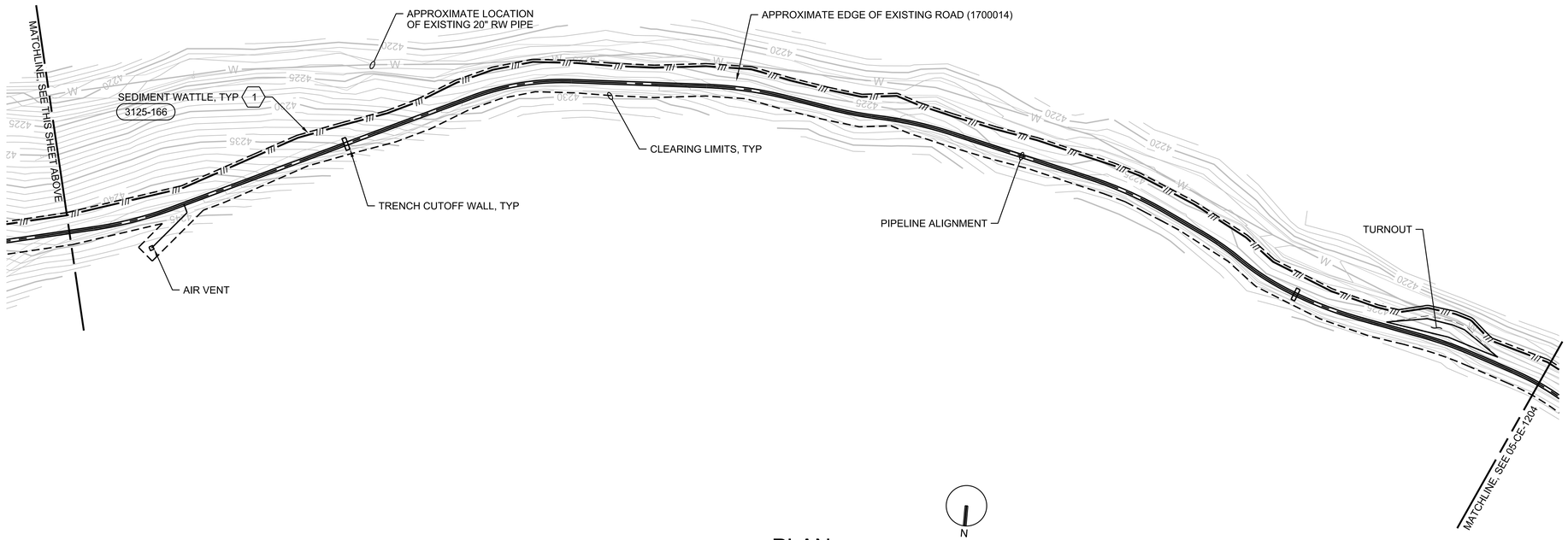


PLAN

N

0 50 100 150

Scale In Feet



PLAN

N

0 50 100 150

Scale In Feet

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60202PE
OREGON
JULY 8, 2014
MATTHEW JOHN BALDWIN
Digital Signature
EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD
		A SITTEL	B KOSMATKA	M BALDWIN	B FULLER

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Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

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CIVIL
PIPELINE
PHASE 2 EROSION CONTROL
PLAN 3

ISSUED FOR CONSTRUCTION

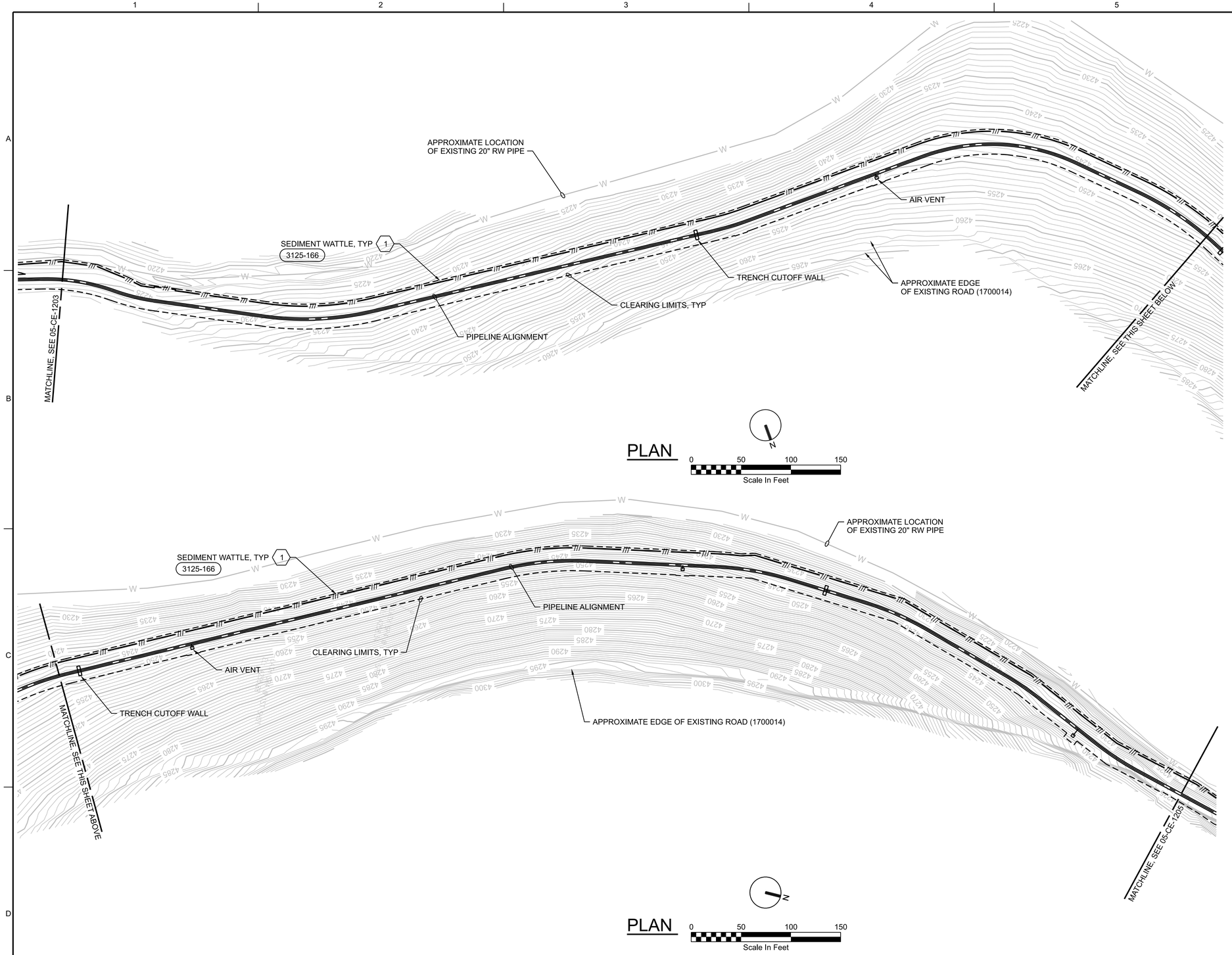
CONTRACT NO.:	2022-001
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1203
SHEET	24 of 76

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.

SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.



PLAN

PLAN

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Digital Signature
OREGON
JULY 8, 2014
MATTHEW JOHN BALDWIN
60202PE
EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	APVD
REVISION		A SITTEL	B KOSMATKA	M BALDWIN		B FULLER	

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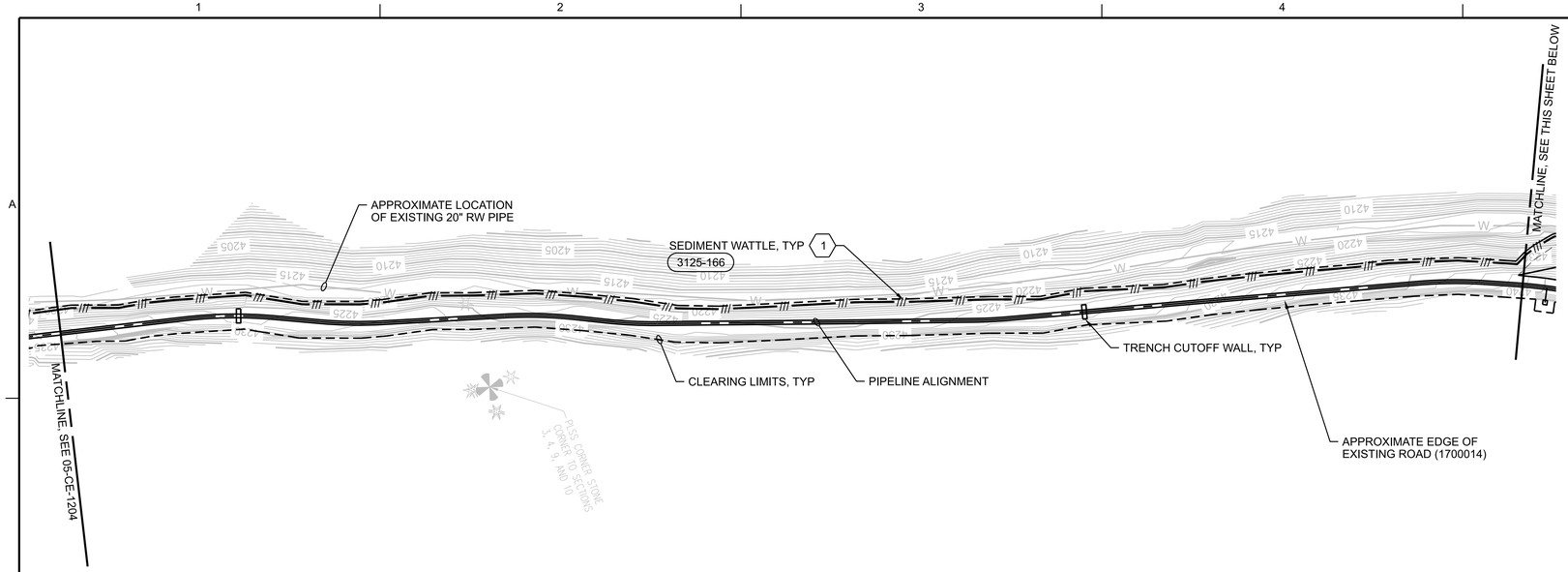
Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

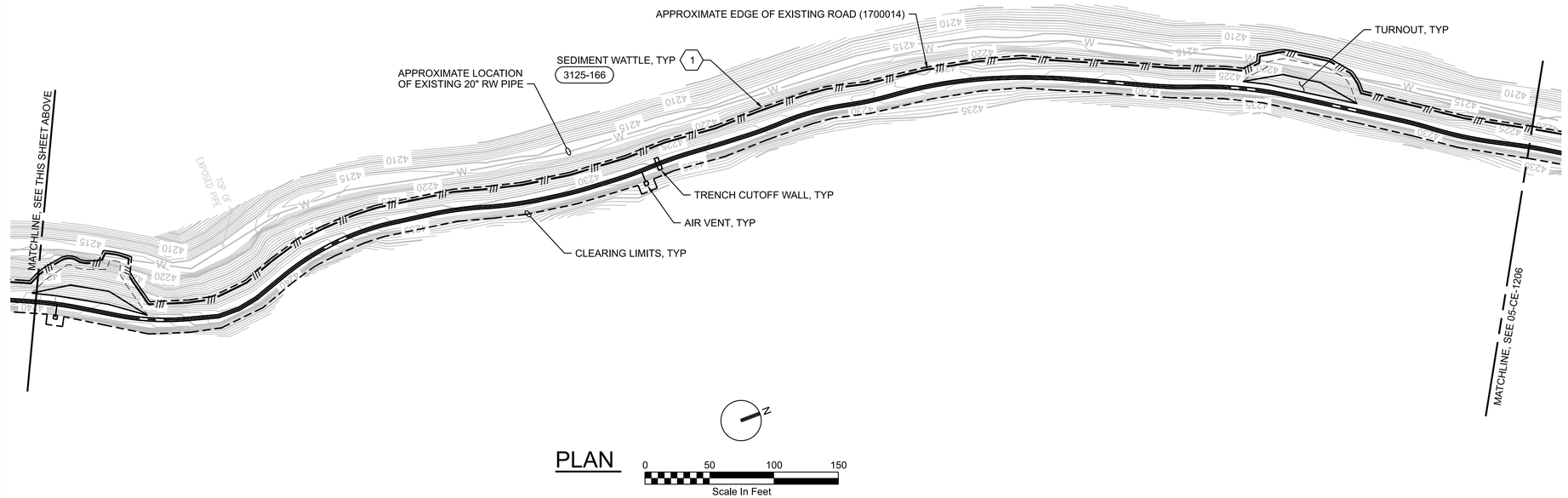
CIVIL
PIPELINE
PHASE 2 EROSION CONTROL
PLAN 4

CONTRACT NO.:	2022-001
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1204
SHEET	25 of 76



PLAN

0 50 100 150
Scale In Feet



PLAN

0 50 100 150
Scale In Feet

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.

SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.

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OREGON
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MATTHEW JOHN BALDWIN
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EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	REVISION
		A SITTEL	A SITTEL	M BALDWIN	B FULLER	APVD	

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Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

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CIVIL
PIPELINE PHASE 2 EROSION CONTROL PLAN 5

CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

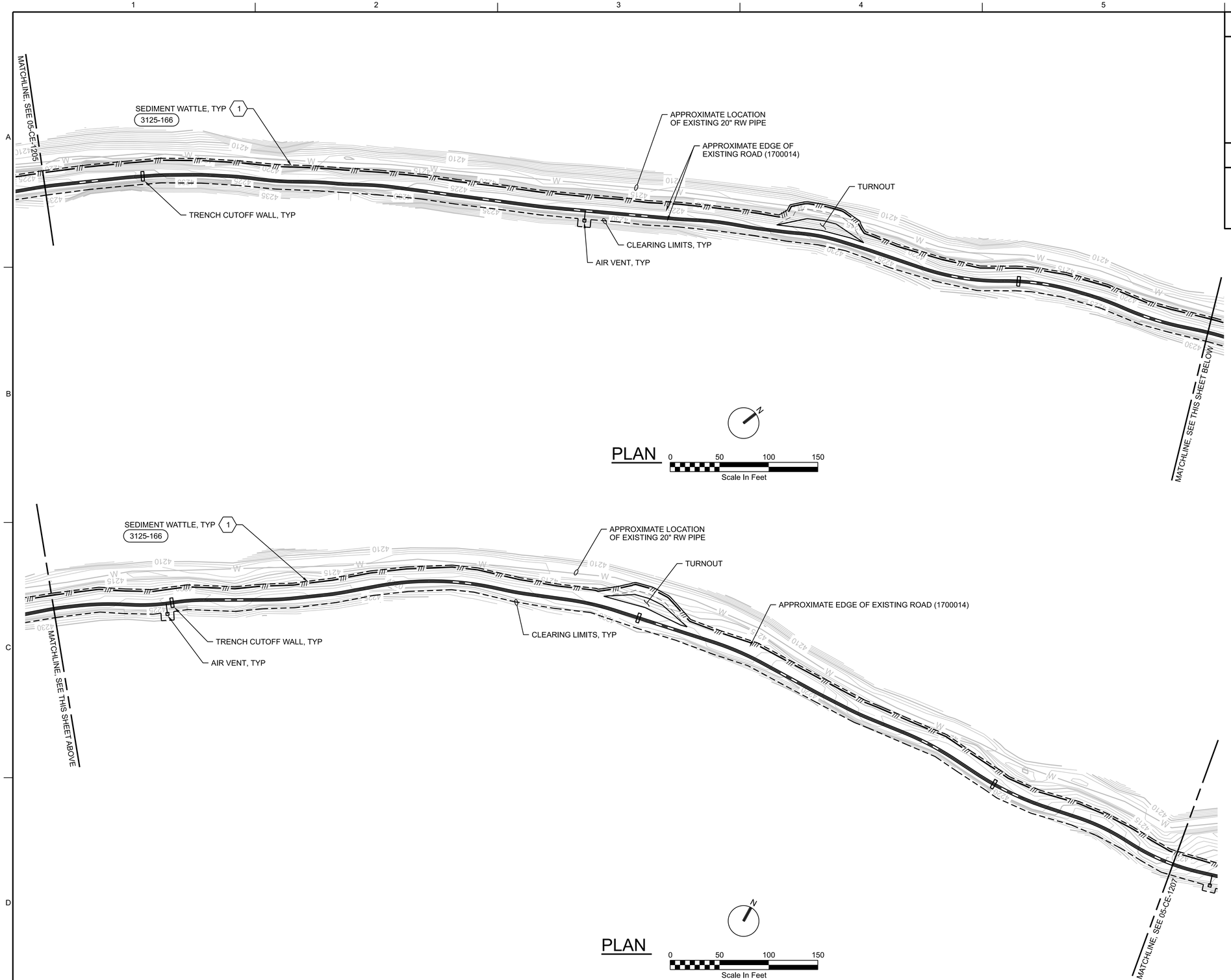
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1205
SHEET	26 of 76

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.

SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.



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EXP: 12-31-2023

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CIVIL
PIPELINE
PHASE 2 EROSION CONTROL
PLAN 6

Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

CONTRACT NO.: 2022-001

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

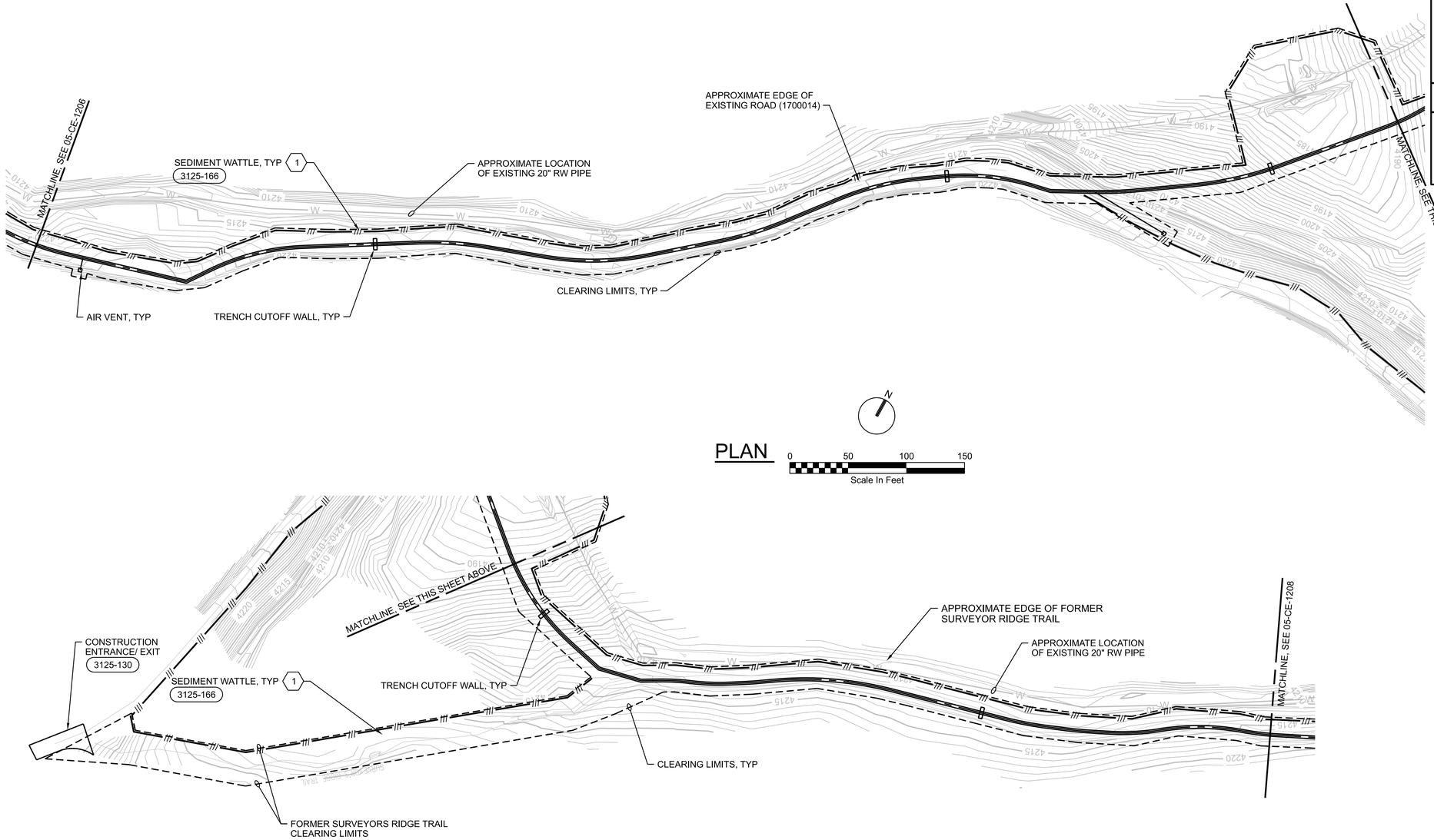
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1206
SHEET	27 of 76

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.

SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.



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Digital Signature
OREGON
JULY 8, 2014
JOHN BALDWIN
MATTHEW
60202PE
EXP: 12-31-2023

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		A SITTEL	A SITTEL	M BALDWIN	APVD	B FULLER	

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Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

CIVIL
PIPELINE
PHASE 2 EROSION CONTROL
PLAN 7

CONTRACT NO.: 2022-001

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1207
SHEET	28 of 76

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.

SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.
2. PROVIDE CHECK DAMS ALONG THE HAND DUG NOTCH AT SURVEYORS RIDGE AT A MAXIMUM SPACING OF 50FT. IN LIEU OF CHECK DAMS, WEED FREE STRAW BALES ARE AN ACCEPTABLE SUBSTITUTE, SEE DETAIL 3125-170

APPROXIMATE LOCATION OF EXISTING 20" RW PIPE
PIPELINE DIVERGES FROM TRAIL
CLEARING LIMITS, TYP
1 SEDIMENT WATTLE 3125-166
PIPELINE CONVERGES WITH TRAIL
MATCHLINE, SEE 05-CE-1207
TRENCH CUTOFF WALL, TYP
PIPELINE ALIGNMENT
AIR VENT, TYP
TURNOUT
APPROXIMATE EDGE OF FORMER SURVEYORS RIDGE TRAIL
PIPELINE DIVERGES FROM TRAIL
MATCHLINE, SEE THIS SHEET BELOW

PLAN

0 50 100 150
Scale In Feet

2
CLEARING LIMITS, TYP
TRENCH CUTOFF WALL, TYP
PIPELINE ALIGNMENT
HAND DUG NOTCH AT SURVEYORS RIDGE
APPROXIMATE LOCATION OF EXISTING 20" RW PIPE
SEDIMENT WATTLE 1 3125-166
1700000 LONG PRAIRIE ROAD
EX 18" CMP CULVERT IE: 4208.07
EX 18" CMP CULVERT IE: 4206.01
TP-13
TP-14
PLSS CORNER STONE SOUTH 1/4 CORNER OF SECTION 34
PLSS CORNER STONE NORTH 1/4 CORNER OF SECTION 3
APPROXIMATE EDGE OF FORMER SURVEYORS RIDGE TRAIL
AIR VENT, TYP
CONSTRUCTION ENTRANCE/EXIT 3125-130
MATCHLINE, SEE THIS SHEET ABOVE
PIPELINE DIVERGES TRAIL
MATCHLINE, SEE 05-CE-1209

PLAN

0 50 100 150
Scale In Feet

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Digital Signature
OREGON
JULY 8, 2008
JOHN BALDWIN
MATTHEW
60202PE
EXP: 12-31-2023

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		A SITTEL		M BALDWIN	APVD	B FULLER

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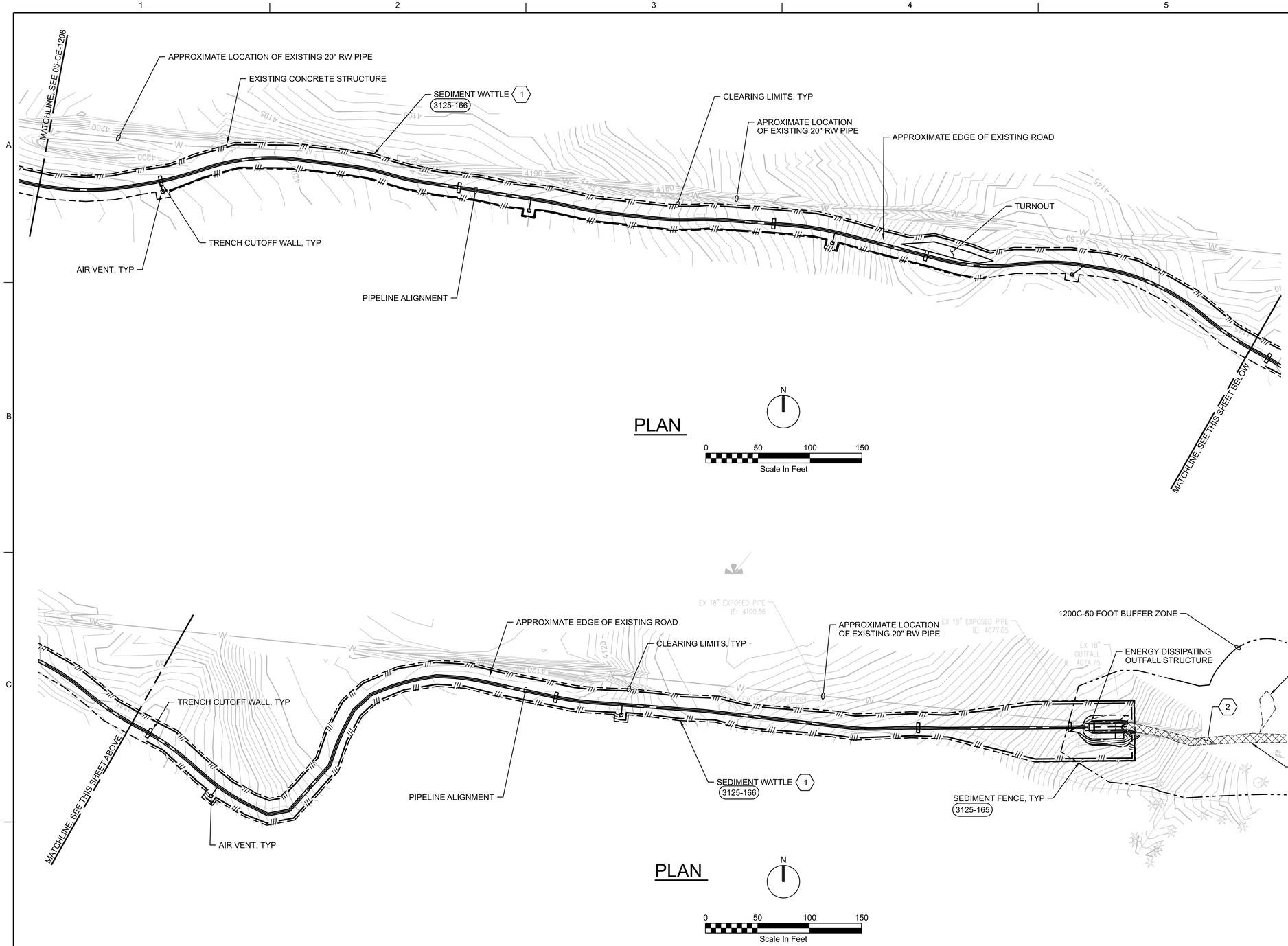
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

CIVIL
PIPELINE
PHASE 2 EROSION CONTROL
PLAN 8

CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1208
SHEET	29 of 76



GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.

SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.
2. 401/404 PERMIT JURISDICTION.

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EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY
		A SITTEL	A SITTEL	M BALDWIN	APVD	B FULLER

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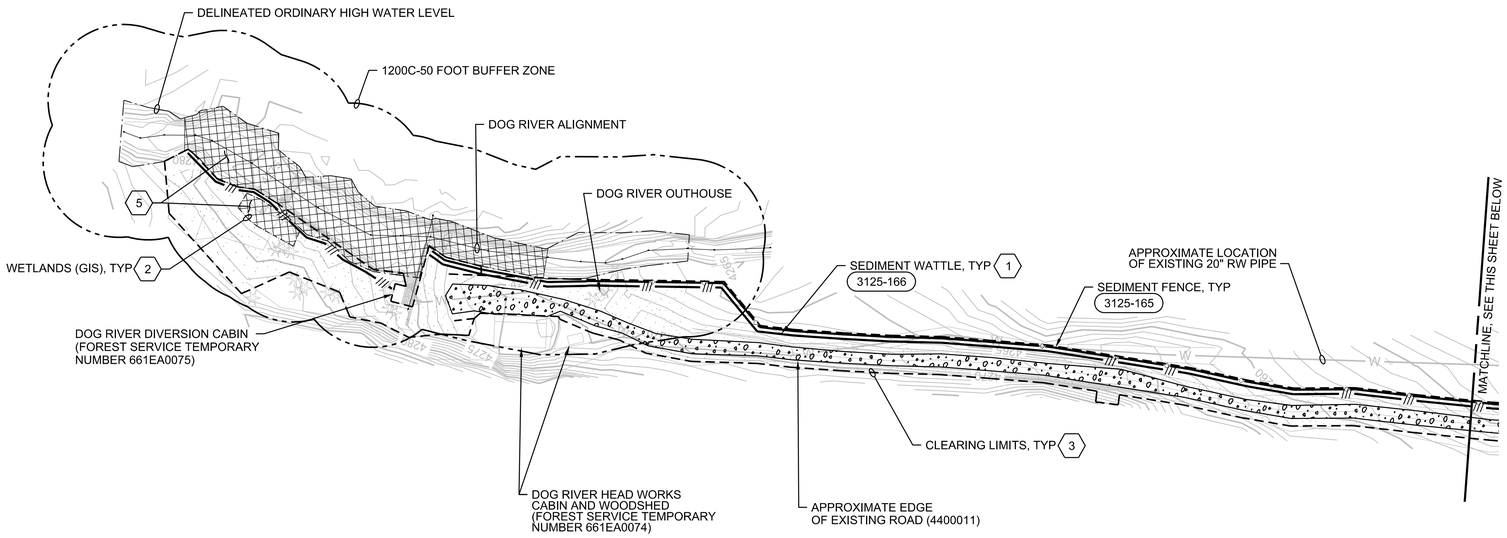
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

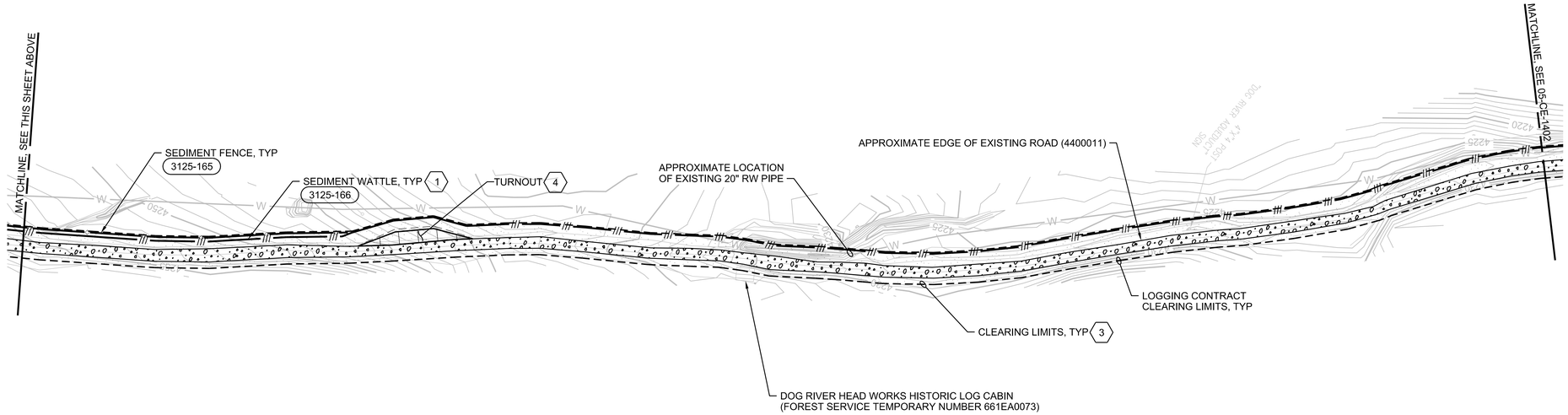
CIVIL
PIPELINE
PHASE 2 EROSION CONTROL
PLAN 9

CONTRACT NO.:	2022-001
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1209
SHEET	30 of 76



PLAN

0 50 150
Scale In Feet



PLAN

0 50 100 150
Scale In Feet

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.
3. SURFACE RESTORATION SHOWN IN THE PHASE 4 EROSION CONTROL PLAN DRAWINGS IS PERMANENT, SEE PLAN AND PROFILE DRAWINGS FOR DETAILS.

SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.
2. DO NOT DISTURB SENSITIVE/WETLAND AREAS (OUTSIDE OF KNOWN SHOWN AND PERMITTED IMPACTED AREAS). INSTALL HIGH VISIBILITY TEMPORARY FENCING TO MARK SENSITIVE AREAS AND EXISTING VEGETATION TO BE PRESERVED TO THE EXTENT POSSIBLE. SEE GENERAL NOTE 15 ON DRAWING 01-G-0010.
3. ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACE, INCLUDING TURNOUT AND STAGING AREAS, UNLESS OTHERWISE SHOWN SHALL BE RESTORED WITH GRASS. FOR DISTURBED SLOPES, CONTRACTOR TO RESTORE WITH GRASS AND PERMANENT EROSION CONTROL BLANKETS AS SPECIFIED AND PER DETAIL 3125-150.
4. UPON PROJECT COMPLETION REMOVE GRAVEL SURFACING FROM ALL STAGING AREAS AS WELL AS TURNOUTS, UNLESS OTHERWISE SHOWN. REMOVED GRAVEL SURFACING MAY BE USED AS ROAD SURFACING MATERIAL. AFTER REMOVAL OF GRAVEL SURFACING AND PLANTING HAS BEEN COMPLETED AT THE STAGING AREAS AND TURNOUTS, BROADCAST EXCESS SLASH. SLASH LAYER SHALL BE 6" MINIMUM AND 18" MAXIMUM.
5. 401/404 PERMIT JURISDICTION.

FINAL SURFACING LEGEND

- UPLAND SEEDING
- GRAVEL SURFACING
- SEEDING AND SLASH

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EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY
		A SITTEL	A SITTEL	A SITTEL	M BALDWIN	B FULLER

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City Of The Dalles
The Dalles, OR

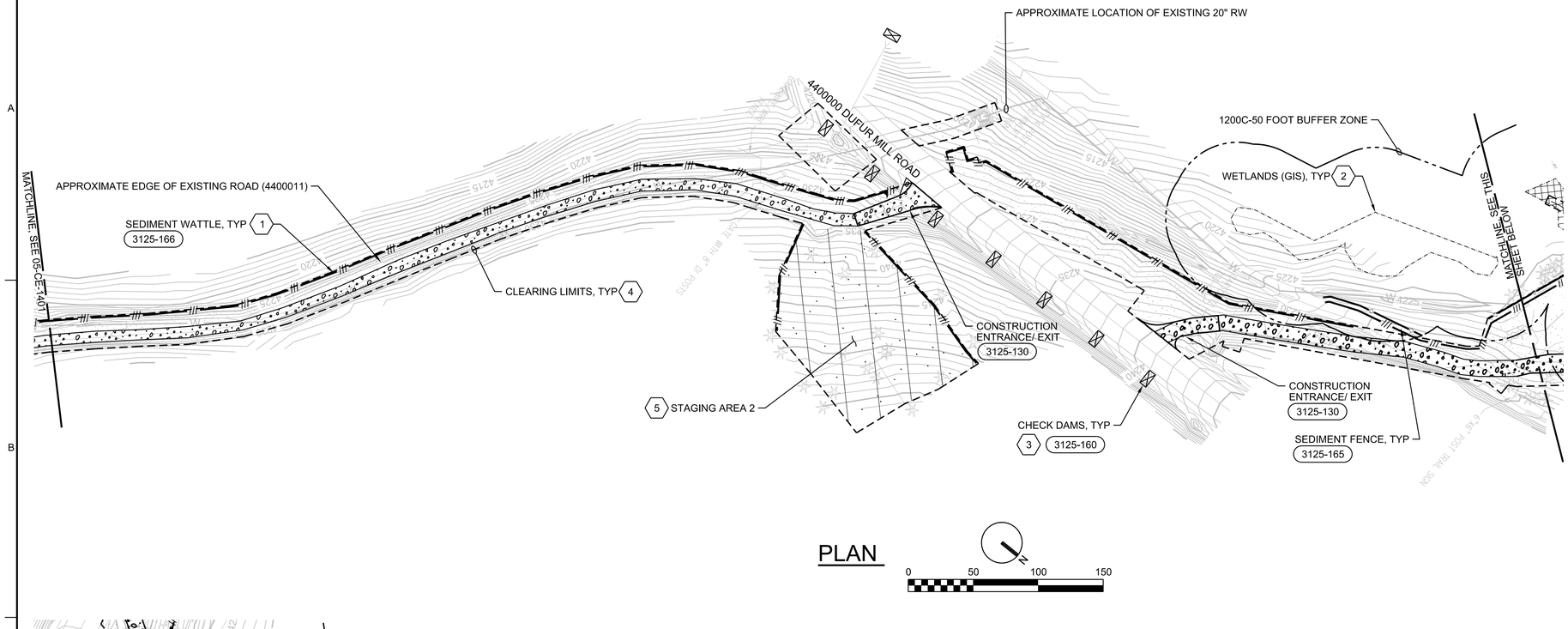
Jacobs

CIVIL

PIPELINE
PHASE 4 EROSION CONTROL
PLAN 1

ISSUED FOR CONSTRUCTION

CONTRACT NO.:	2022-001
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1401
SHEET	31 of 76



GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.
3. SURFACE RESTORATION SHOWN IN THE PHASE 4 EROSION CONTROL PLAN DRAWINGS IS PERMANENT, SEE PLAN AND PROFILE DRAWINGS FOR DETAILS.

SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.
2. DO NOT DISTURB SENSITIVE/WETLAND AREAS (OUTSIDE OF KNOWN SHOWN AND PERMITTED IMPACTED AREAS). INSTALL HIGH VISIBILITY TEMPORARY FENCING TO MARK SENSITIVE AREAS AND EXISTING VEGETATION TO BE PRESERVED TO THE EXTENT POSSIBLE. SEE GENERAL NOTE 15 ON DRAWING 01-G-0010.
3. PROVIDE CHECKS DAMS ALONG DUFUR MILL ROAD DITCH AT A MAXIMUM SPACING OF 50FT. IN LIEU OF CHECK DAMS, WEED FREE STRAW BALES ARE AN ACCEPTABLE SUBSTITUTE, SEE DETAIL 3125-170.
4. ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACE, INCLUDING TURNOUT AND STAGING AREAS, UNLESS OTHERWISE SHOWN SHALL BE RESTORED WITH GRASS. FOR DISTURBED SLOPES, CONTRACTOR TO RESTORE WITH GRASS AND PERMANENT EROSION CONTROL BLANKETS AS SPECIFIED AND PER DETAIL 3125-150.
5. UPON PROJECT COMPLETION REMOVE GRAVEL SURFACING FROM ALL STAGING AREAS AS WELL AS TURNOUTS, UNLESS OTHERWISE SHOWN. REMOVED GRAVEL SURFACING MAY BE USED AS ROAD SURFACING MATERIAL. AFTER REMOVAL OF GRAVEL SURFACING AND PLANTING HAS BEEN COMPLETED AT THE STAGING AREAS AND TURNOUTS, BROADCAST EXCESS SLASH. SLASH LAYER SHALL BE 6" MINIMUM AND 18" MAXIMUM.
6. BROOKS MEADOW CREEK FLOW IS SEASONAL. PROVIDE SEDIMENT FENCE AND SEDIMENT WATTLE AROUND WORK AREA. PROVIDE REMOVABLE PADS WHERE PRACTICABLE AND AT ALL CONSTRUCTION ACCESS POINTS THROUGH WETLAND AREAS TO PREVENT SOIL COMPACTION.
7. 401/404 PERMIT JURISDICTION.
8. REMOVE SEDIMENT FENCE AND SEDIMENT WATTLE FROM BROOKS MEADOW CREEK BEFORE REINSTATING FLOW THROUGH THE BROOKS MEADOW CREEK STREAM.

FINAL SURFACING LEGEND

- UPLAND SEEDING
- GRAVEL SURFACING
- SEEDING AND SLASH

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NO.	DATE	DSGN	DR	CHK	APVD	BY	REVISION	APVD
		A SITTEL	A SITTEL	M BALDWIN	B FULLER			

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Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

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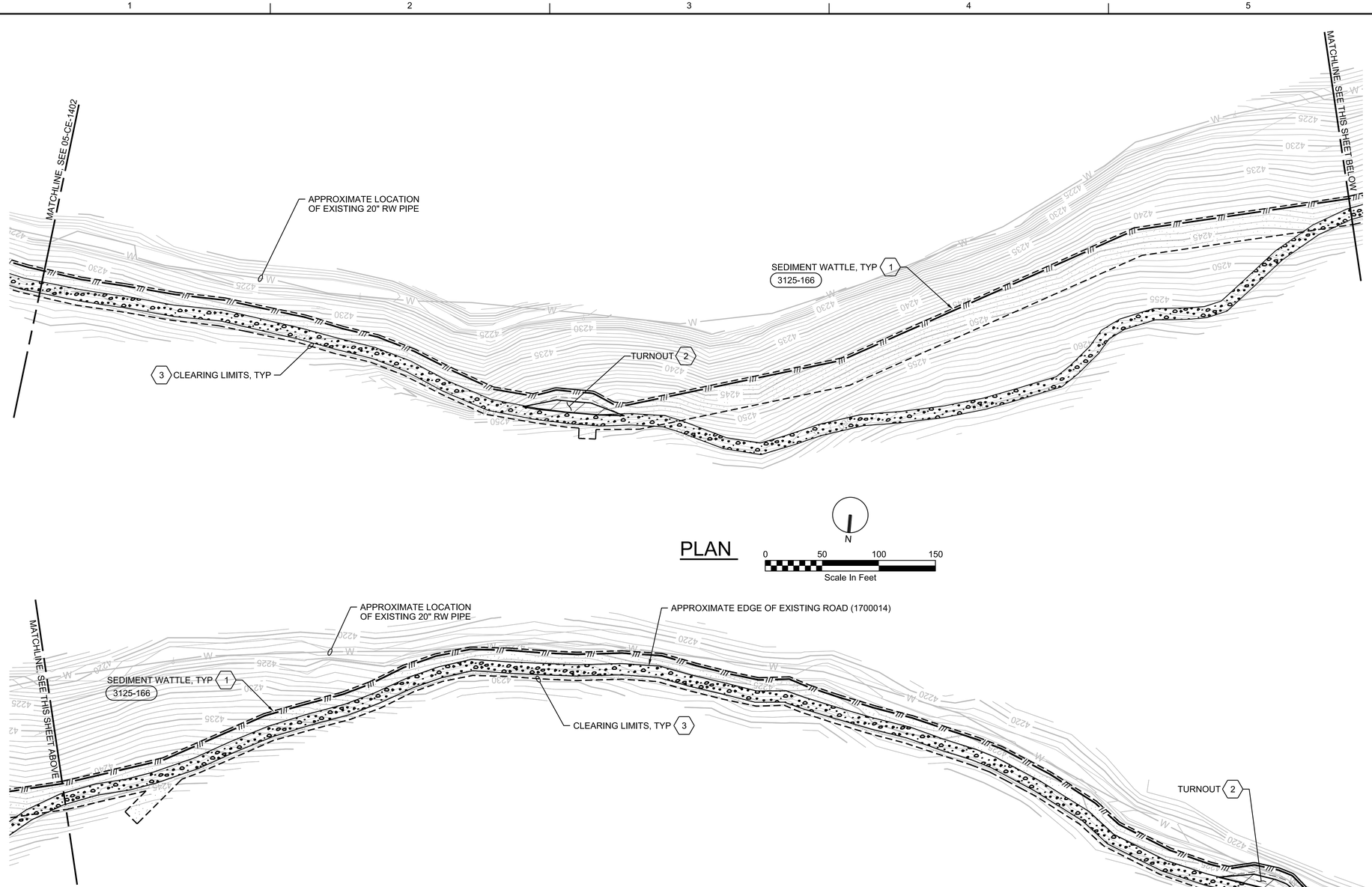
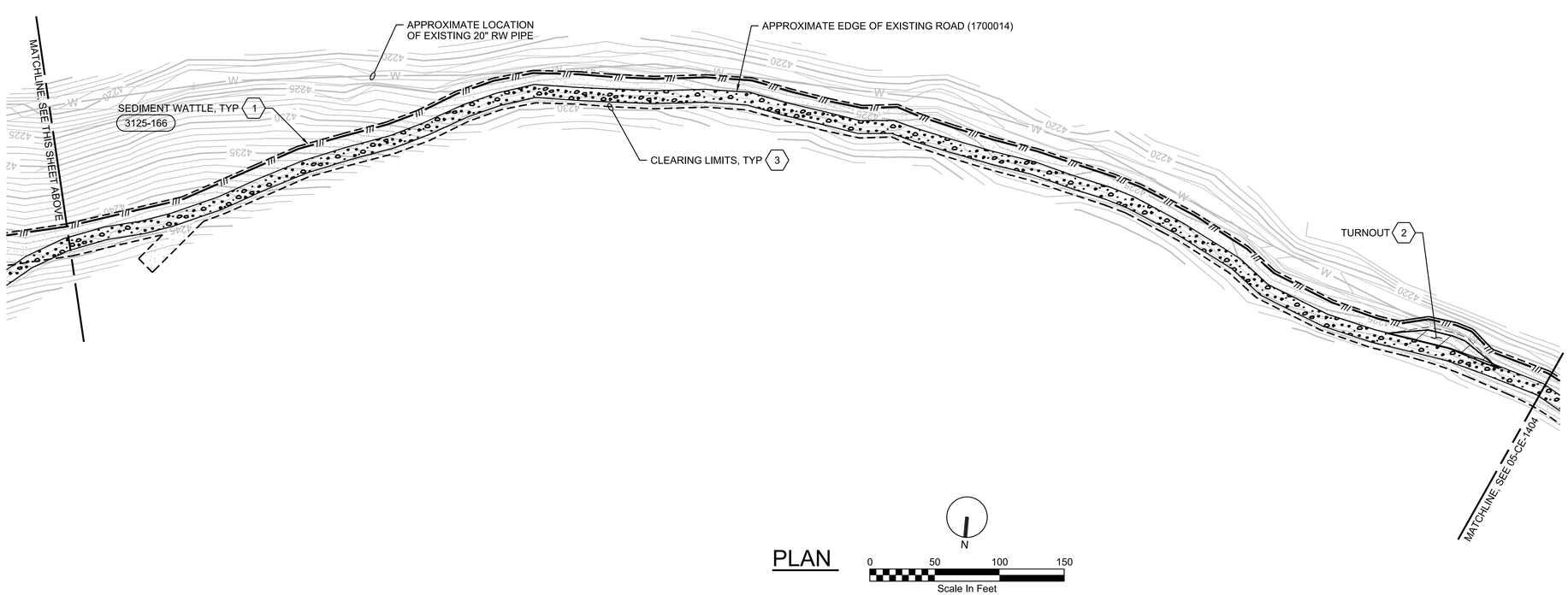
CIVIL
PIPELINE
PHASE 4 EROSION CONTROL
PLAN 2

ISSUED FOR CONSTRUCTION

CONTRACT NO.:	2022-001
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 — 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1402
SHEET	32 of 76



PLAN



PLAN

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.
3. SURFACE RESTORATION SHOWN IN THE PHASE 4 EROSION CONTROL PLAN DRAWINGS IS PERMANENT, SEE PLAN AND PROFILE DRAWINGS FOR DETAILS.

SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.
2. UPON PROJECT COMPLETION REMOVE GRAVEL SURFACING FROM ALL STAGING AREAS AS WELL AS TURNOUTS, UNLESS OTHERWISE SHOWN. REMOVED GRAVEL SURFACING MAY BE USED AS ROAD SURFACING MATERIAL. AFTER REMOVAL OF GRAVEL SURFACING AND PLANTING HAS BEEN COMPLETED AT THE STAGING AREAS AND TURNOUTS, BROADCAST EXCESS SLASH. SLASH LAYER SHALL BE 6" MINIMUM AND 18" MAXIMUM.
3. ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACE, INCLUDING TURNOUT AND STAGING AREAS, UNLESS OTHERWISE SHOWN SHALL BE RESTORED WITH GRASS. FOR DISTURBED SLOPES, CONTRACTOR TO RESTORE WITH GRASS AND PERMANENT EROSION CONTROL BLANKETS AS SPECIFIED AND PER DETAIL 3125-150.

FINAL SURFACING LEGEND

- UPLAND SEEDING
- GRAVEL SURFACING
- SEEDING AND SLASH

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Digital Signature
EXP. 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY
REVISION		A SITTEL	A SITTEL	M BALDWIN	M BALDWIN	B FULLER

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The Dalles, OR

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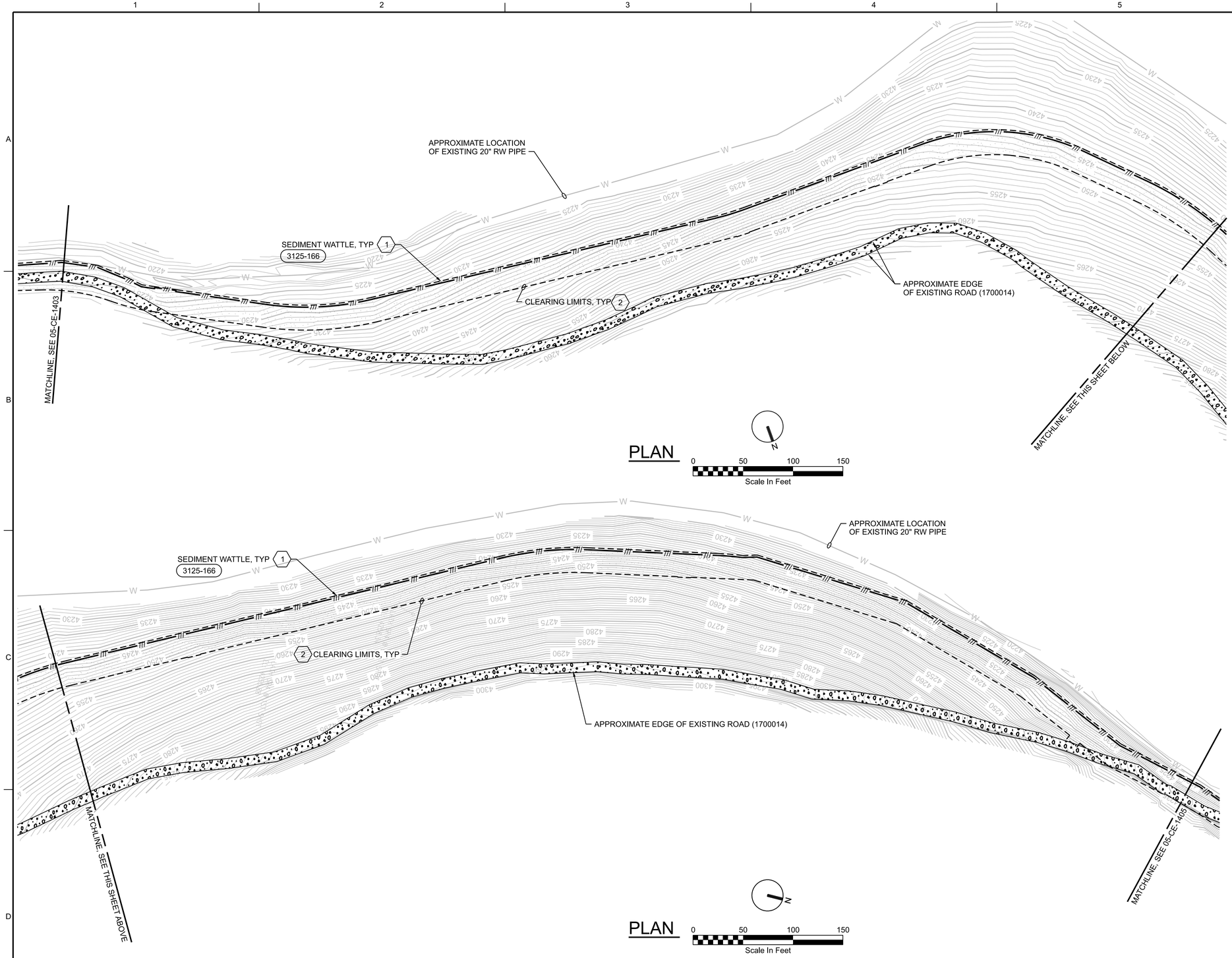
PHASE 4 EROSION CONTROL
PLAN 3

CONTRACT NO.:	2022-001
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1403
SHEET	33 of 76



GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.
3. SURFACE RESTORATION SHOWN IN THE PHASE 4 EROSION CONTROL PLAN DRAWINGS IS PERMANENT, SEE PLAN AND PROFILE DRAWINGS FOR DETAILS.

SHEET KEYNOTES

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FINAL SURFACING LEGEND

- UPLAND SEEDING
- GRAVEL SURFACING
- SEEDING AND SLASH

REGISTERED PROFESSIONAL ENGINEER
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OREGON
JULY 8, 2014
MATTHEW JOHN BALDWIN
EXP. 12-31-2023

NO.	DATE	DSGN	REVISION	BY	APVD
		A SITTEL	DR	A SITTEL	M BALDWIN
			CHK	B FULLER	APVD

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PHASE 4 EROSION CONTROL
PLAN 4

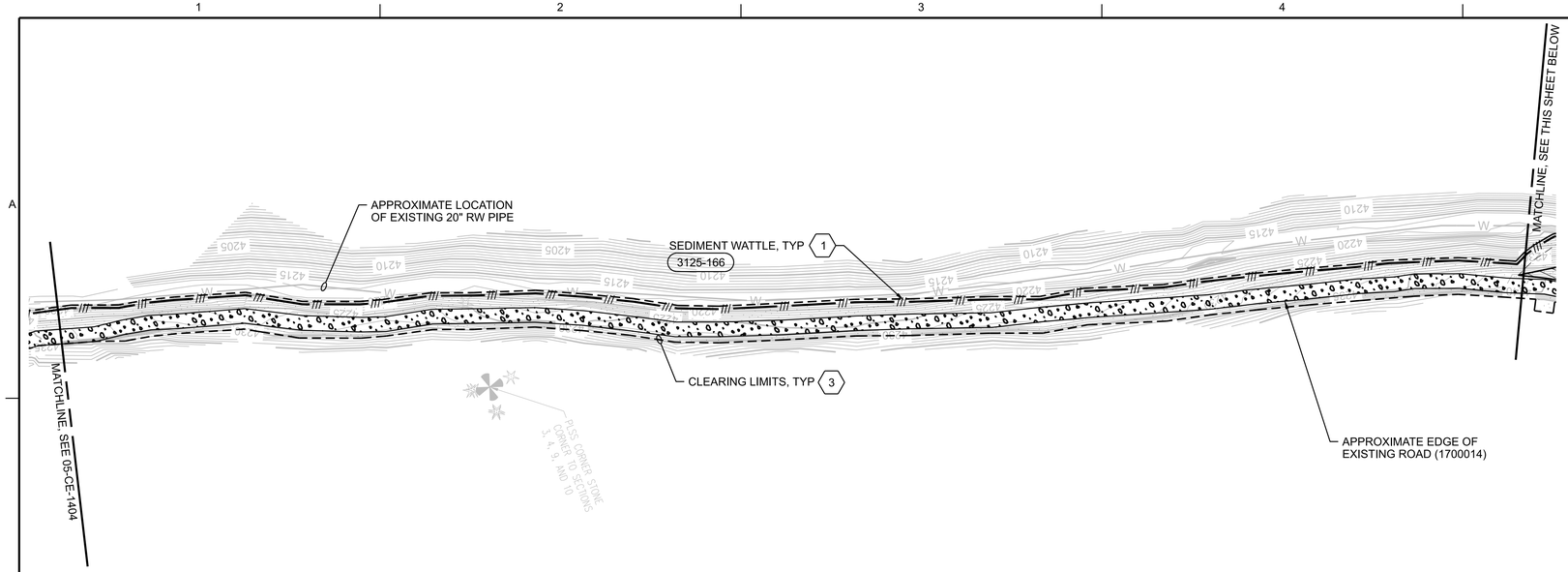
Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

CONTRACT NO.: 2022-001

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1404
SHEET	34 of 76



PLAN

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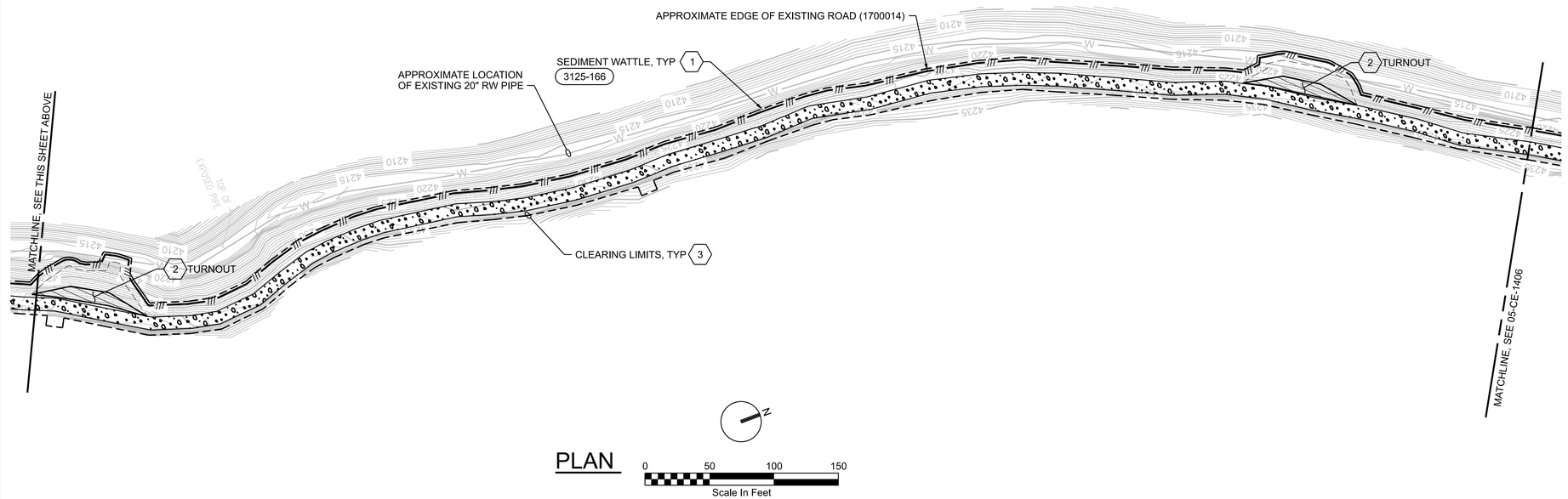
Scale In Feet



PLAN

0 50 100 150
Scale In Feet

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.
3. SURFACE RESTORATION SHOWN IN THE PHASE 4 EROSION CONTROL PLAN DRAWINGS IS PERMANENT, SEE PLAN AND PROFILE DRAWINGS FOR DETAILS.

SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.
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FINAL SURFACING LEGEND

- UPLAND SEEDING
- GRAVEL SURFACING
- SEEDING AND SLASH

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Digital Signature
OREGON
JULY 8, 2014
JOHN BALDWIN
MATTHEW
60202PE
EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	REVISION
		A SITTEL	A SITTEL	M BALDWIN	APVD	B FULLER	

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Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

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CIVIL
PIPELINE
PHASE 4 EROSION CONTROL
PLAN 5

CONTRACT NO.:	2022-001
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING, 0 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1405
SHEET	35 of 76

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.
3. SURFACE RESTORATION SHOWN IN THE PHASE 4 EROSION CONTROL PLAN DRAWINGS IS PERMANENT, SEE PLAN AND PROFILE DRAWINGS FOR DETAILS.

SHEET KEYNOTES

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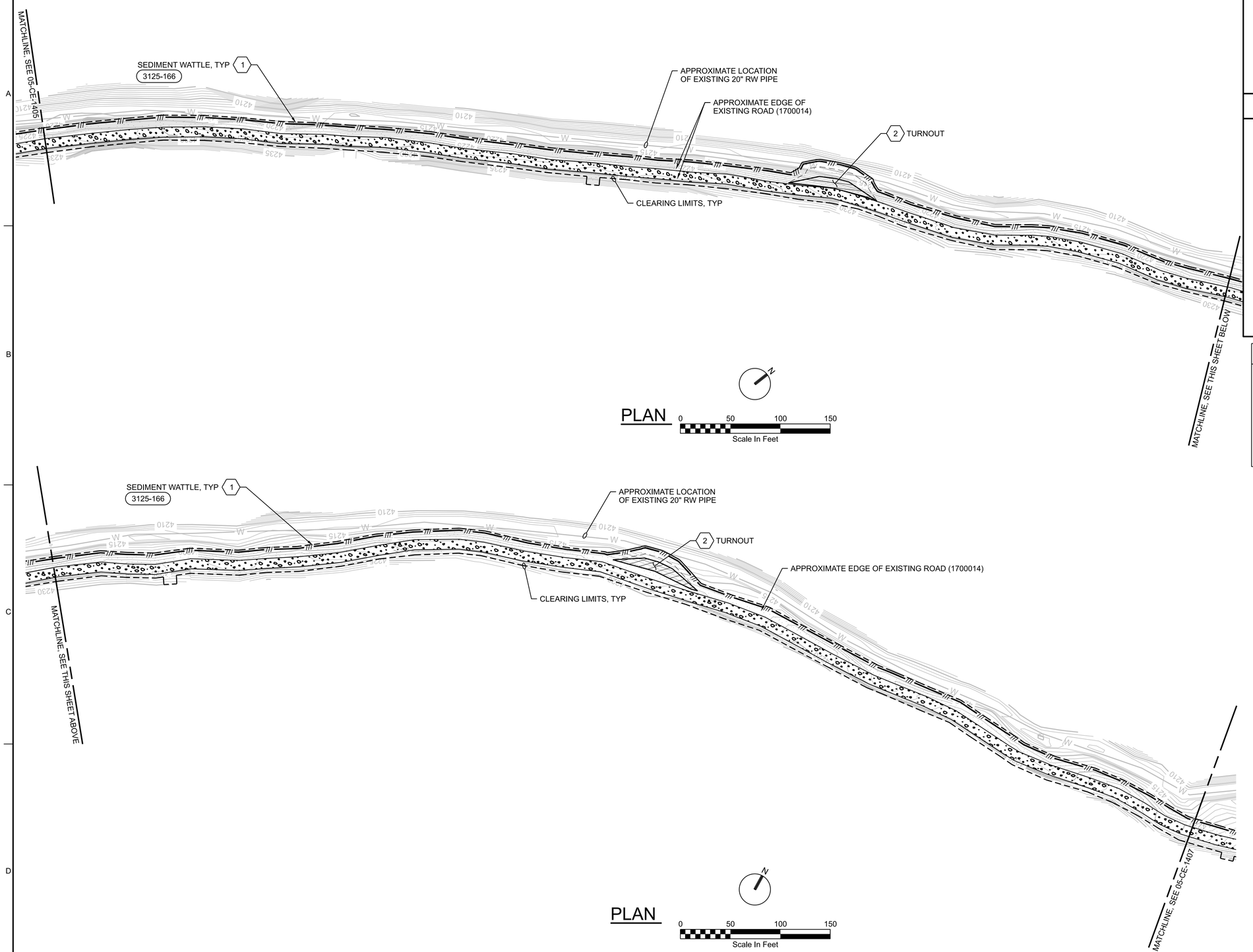
FINAL SURFACING LEGEND

- UPLAND SEEDING
- GRAVEL SURFACING
- SEEDING AND SLASH



REGISTERED PROFESSIONAL ENGINEER
Digital Signature
OREGON
JULY 8, 2008
JOHN BALDWIN
MATTHEW
60202PE
EXP: 12-31-2023

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		A SITTEL	A SITTEL	A SITTEL	M BALDWIN		B FULLER	

Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

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CIVIL
PIPELINE
PHASE 4 EROSION CONTROL
PLAN 6

ISSUED FOR CONSTRUCTION

CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1406
SHEET	36 of 76

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.
3. SURFACE RESTORATION SHOWN IN THE PHASE 4 EROSION CONTROL PLAN DRAWINGS IS PERMANENT, SEE PLAN AND PROFILE DRAWINGS FOR DETAILS.

SHEET KEYNOTES

1. PLACEMENT OF SEDIMENT WATTLE TO BE COORDINATED WITH LIMITS OF CLEARING AND SHALL REMAIN WITHIN CLEARING LIMITS AT ALL TIMES UNLESS OTHERWISE SHOWN.
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FINAL SURFACING LEGEND

- UPLAND SEEDING
- GRAVEL SURFACING
- SEEDING AND SLASH

MATCHLINE SEE 05-CE-1406

SEDIMENT WATTLE, TYP 1
3125-166

APPROXIMATE LOCATION OF EXISTING 20" RW PIPE

APPROXIMATE EDGE OF EXISTING ROAD (1700014)

2 CLEARING LIMITS, TYP

MATCHLINE SEE THIS SHEET BELOW

N

PLAN

0 50 100 150
Scale In Feet

MATCHLINE, SEE THIS SHEET ABOVE

CONSTRUCTION ENTRANCE/ EXIT
3125-130

SEDIMENT WATTLE, TYP 1
3125-166

APPROXIMATE EDGE OF FORMER SURVEYOR RIDGE TRAIL

APPROXIMATE LOCATION OF EXISTING 20" RW PIPE

MATCHLINE, SEE 05-CE-1408

CLEARING LIMITS, TYP 2

FORMER SURVEYORS RIDGE TRAIL CLEARING LIMITS

N

PLAN

0 50 100 150
Scale In Feet

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60202PE
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NO.	DATE	DR	CHK	APVD	BY	REVISION
DSGN	A SITTEL	A SITTEL	M BALDWIN	APVD	B FULLER	

Jacobs

Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

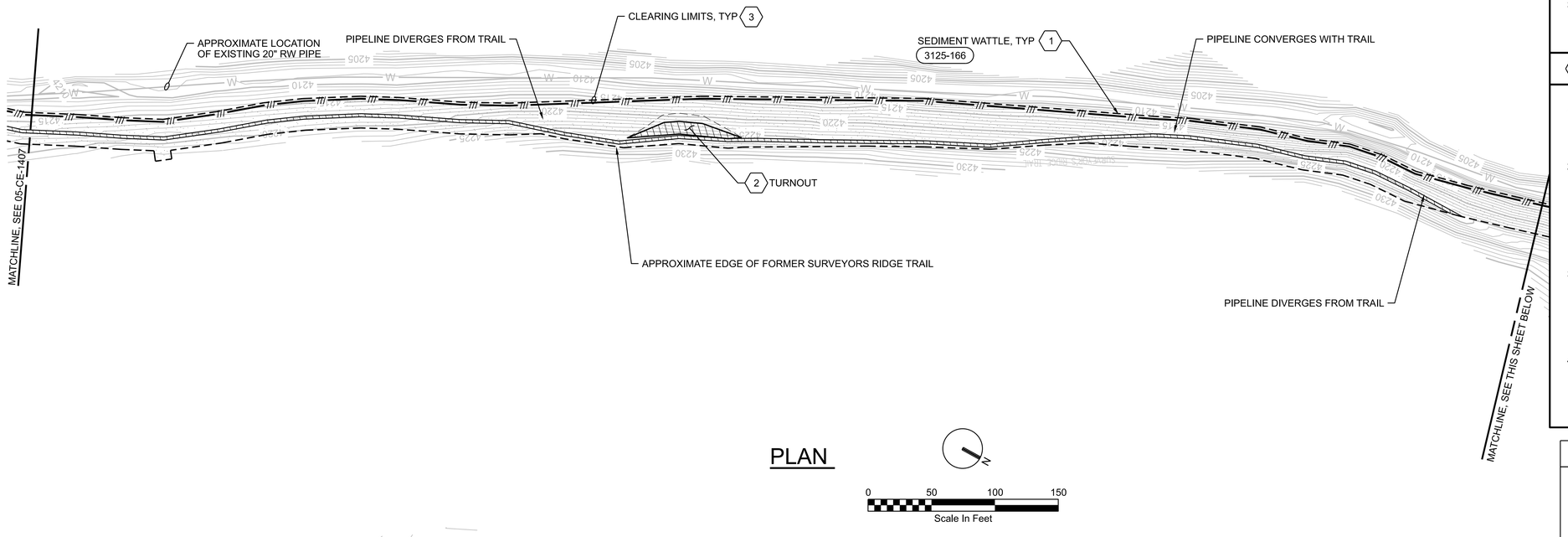
CIVIL
PIPELINE
PHASE 4 EROSION CONTROL
PLAN 7

ISSUED FOR CONSTRUCTION

CONTRACT NO.: 2022-001

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1407
SHEET	37 of 76



PLAN

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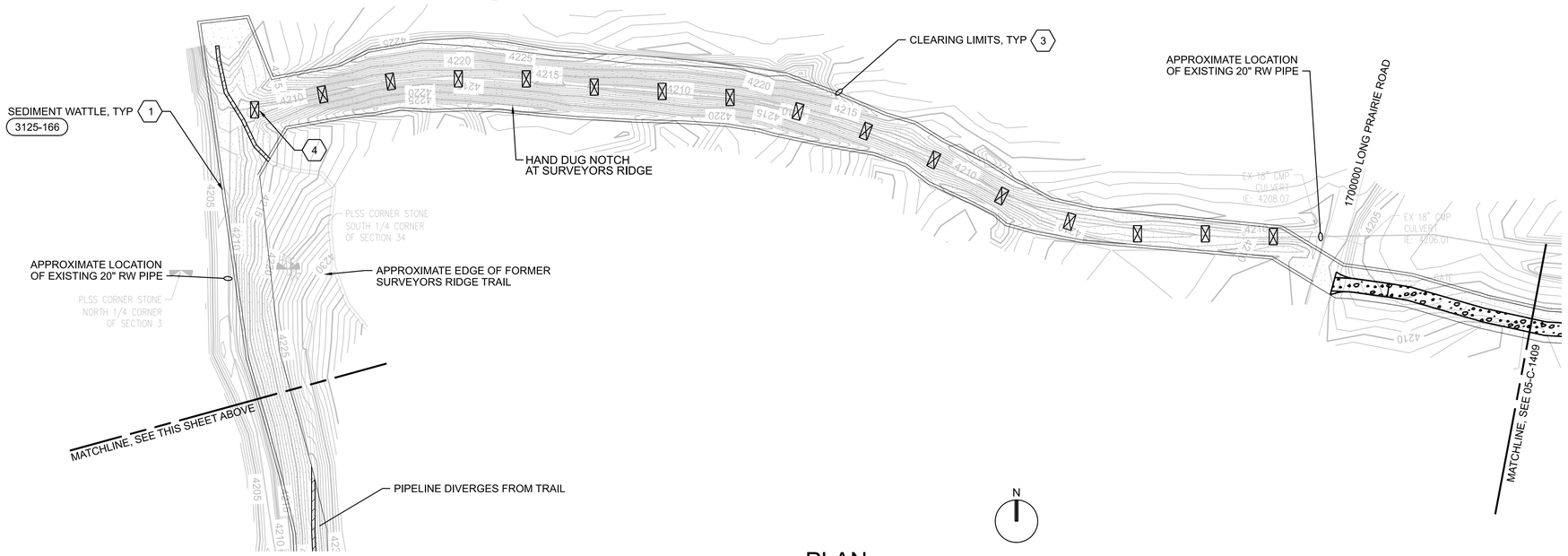
Scale In Feet



PLAN

0 50 100 150
Scale In Feet

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.
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SHEET KEYNOTES

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4. PROVIDE CHECK DAMS ALONG THE HAND DUG NOTCH AT SURVEYORS RIDGE AT A MAXIMUM SPACING OF 50FT. IN LIEU OF CHECK DAMS, WEED FREE STRAW BALES ARE AN ACCEPTABLE SUBSTITUTE, SEE DETAIL 3125-170

FINAL SURFACING LEGEND

- UPLAND SEEDING
- GRAVEL SURFACING
- SEEDING AND SLASH

REGISTERED PROFESSIONAL ENGINEER
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Digital Signature
OREGON
JULY 8, 2014
MATTHEW JOHN BALDWIN
EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	REVISION	BY	APVD
		A SITTEL	A SITTEL	M BALDWIN			B FULLER	

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PHASE 4 EROSION CONTROL
PLAN 8

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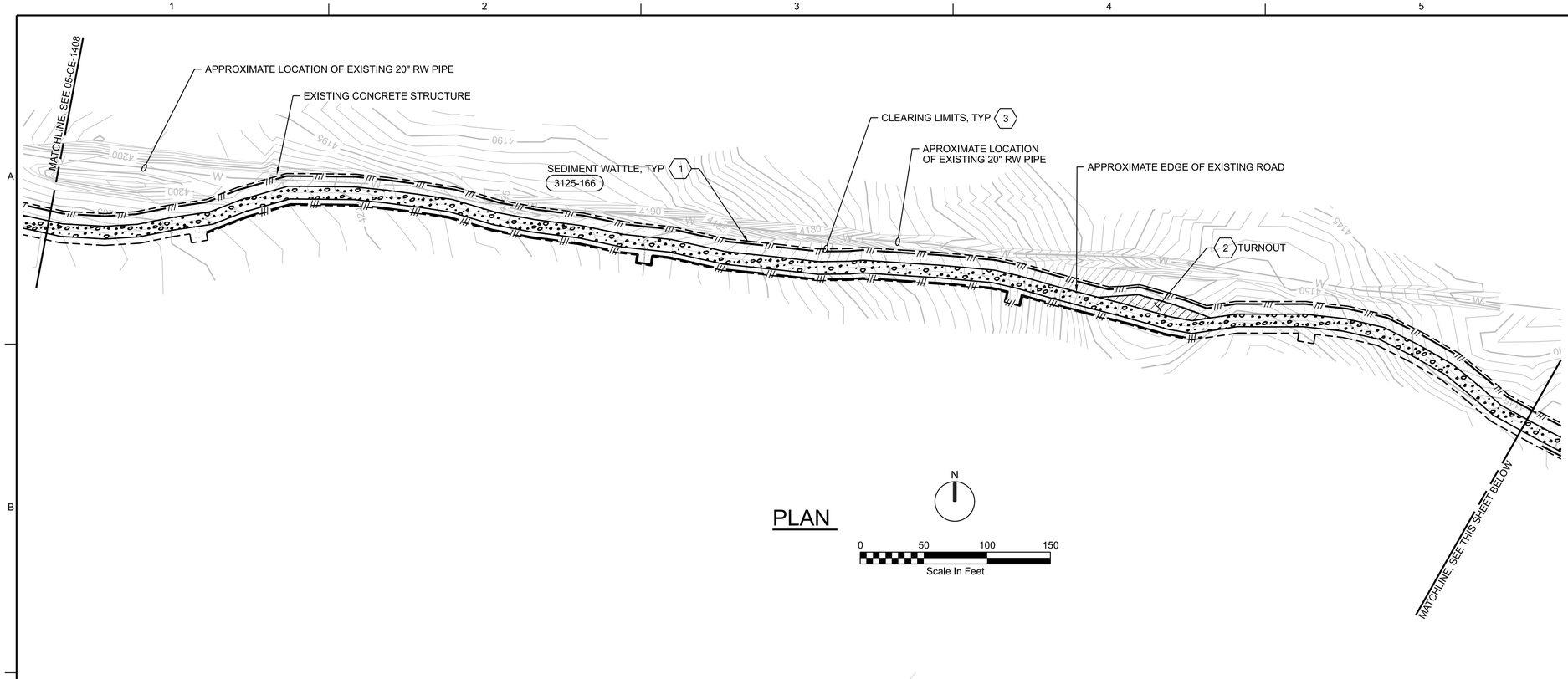
CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1408
SHEET	38 of 76



PLAN

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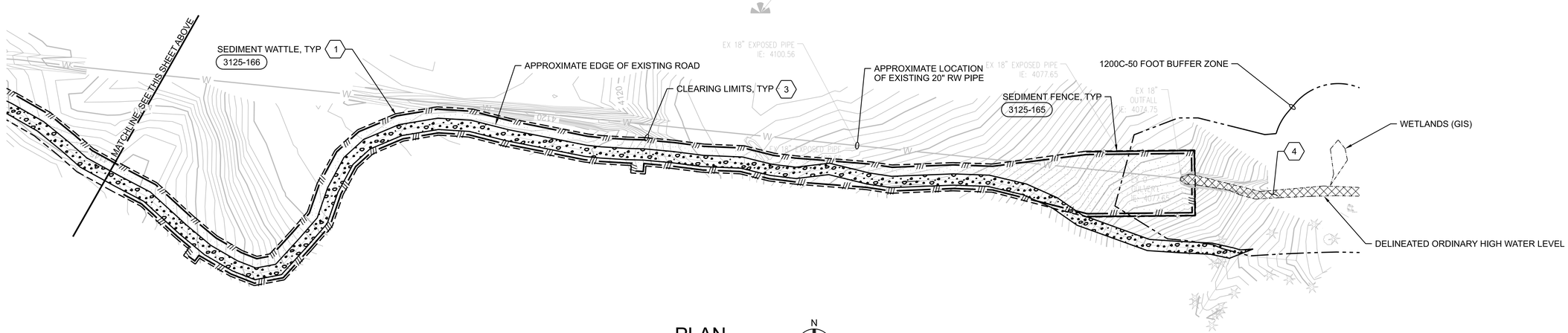
Scale In Feet



PLAN

N

0 50 100 150

Scale In Feet

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.
3. SURFACE RESTORATION SHOWN IN THE PHASE 4 EROSION CONTROL PLAN DRAWINGS IS PERMANENT, SEE PLAN AND PROFILE DRAWINGS FOR DETAILS.

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FINAL SURFACING LEGEND

- UPLAND SEEDING
- GRAVEL SURFACING
- SEEDING AND SLASH

REGISTERED PROFESSIONAL ENGINEER
60202PE
Digital Signature
OREGON
JULY 8, 2016
MATTHEW JOHN BALDWIN
EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	REVISION
	A SITTEL	A SITTEL	A SITTEL	M BALDWIN	APVD	B FULLER	

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City Of The Dalles
The Dalles, OR

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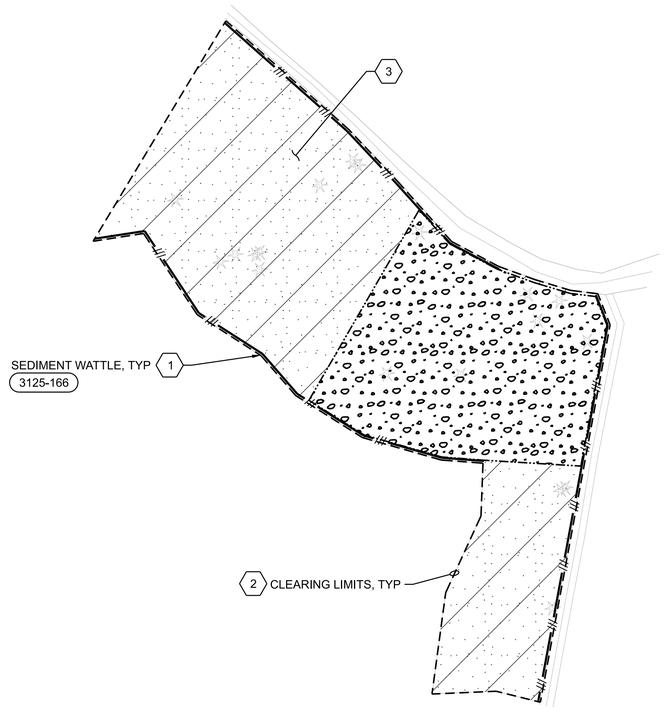
PHASE 4 EROSION CONTROL
PLAN 9

ISSUED FOR CONSTRUCTION

CONTRACT NO.:	2022-001
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING, 0 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1409
SHEET	39 of 76

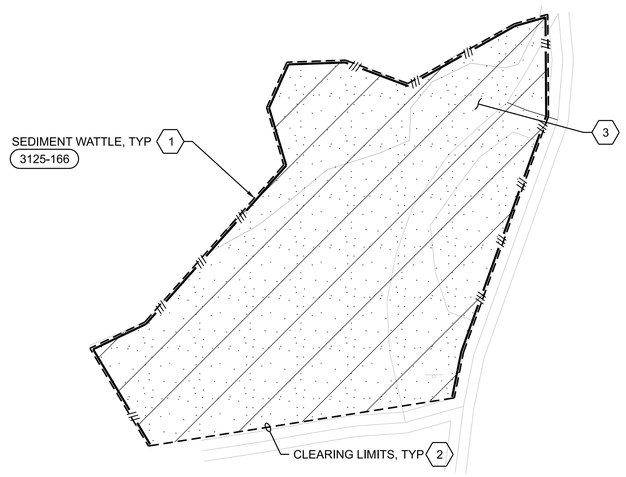


STAGING AREA 1 PLAN

N

0 50 100 150

Scale In Feet



STAGING AREA 3 PLAN

N

0 50 100 150

Scale In Feet

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. REFER TO NOTES ON DRAWING 05-CE-1000.
3. SURFACE RESTORATION SHOWN IN THE PHASE 4 EROSION CONTROL PLAN DRAWINGS IS PERMANENT, SEE PLAN AND PROFILE DRAWINGS FOR DETAILS.

SHEET KEYNOTES

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FINAL SURFACING LEGEND

- UPLAND SEEDING
- GRAVEL SURFACING
- SEEDING AND SLASH

REGISTERED PROFESSIONAL ENGINEER
Digital Signature
OREGON
JULY 8, 2014
MATTHEW JOHN BALDWIN
60202PE
EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY
		A SITTEL	A SITTEL	M BALDWIN	M BALDWIN	B FULLER

REVISION

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REUSE OF DOCUMENTS:

Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

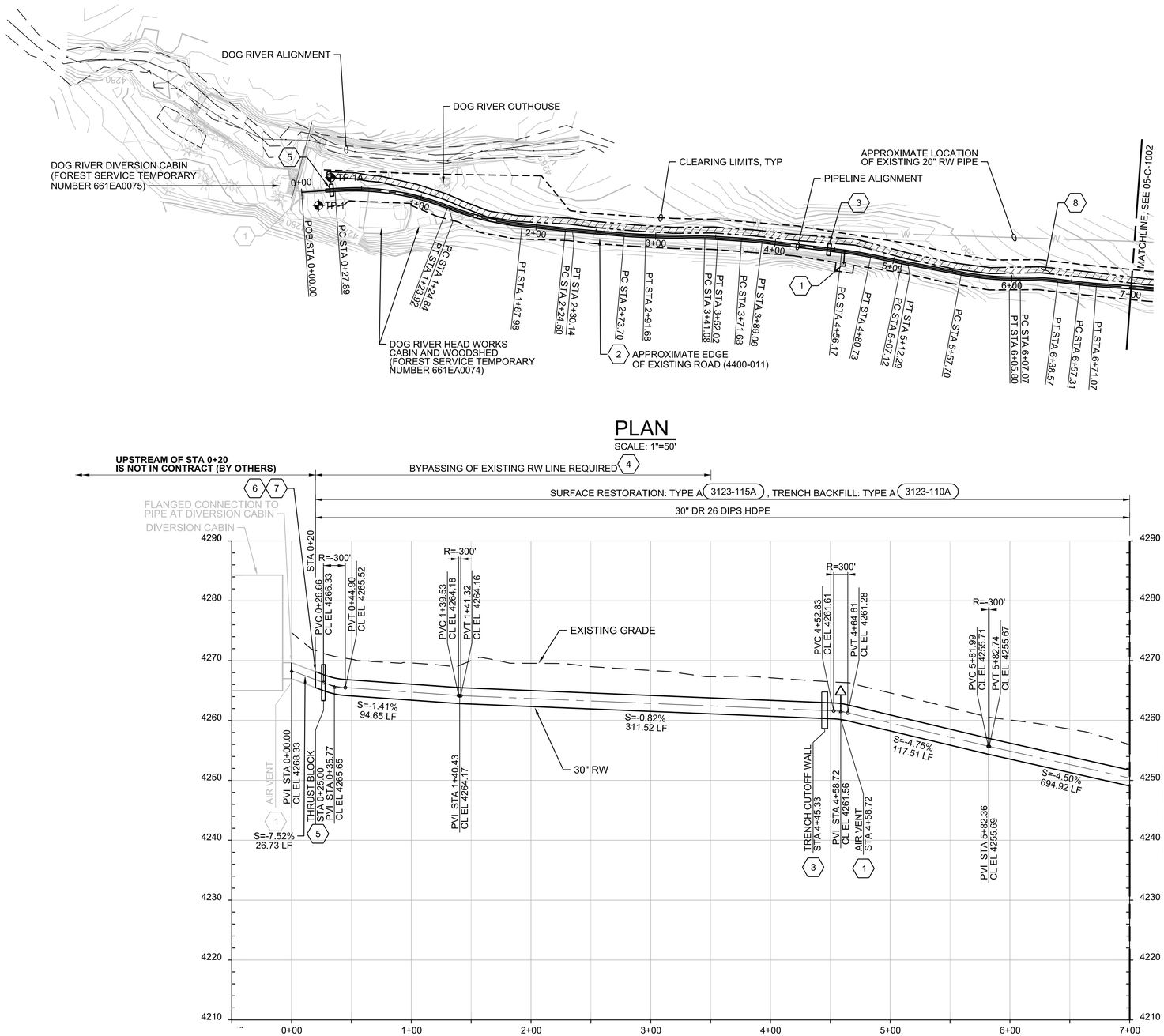
Jacobs

CIVIL

PIPELINE
PHASE 4 EROSION CONTROL
STAGING AREAS ENLARGED PLANS

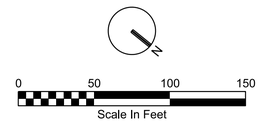
ISSUED FOR CONSTRUCTION

CONTRACT NO.:	2022-001
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	05-CE-1410
SHEET	40 of 76



PLAN
SCALE: 1"=50'

PROFILE
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'



GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. FOR SURFACE RESTORATION AND TRENCH BACKFILL TYPES, SEE 99-C-0001.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
4. CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES SHOWN ON EROSION CONTROL DRAWINGS, THESE ARE THE MINIMUM REQUIRED.
5. FOR PIPELINE HORIZONTAL ALIGNMENT CONTROL, SEE DRAWINGS 05-C-1100 THROUGH 05-C-1102.
6. FOR TEST PIT COORDINATES, SEE DRAWING 05-C-0100.

SHEET KEYNOTES

1. FOR AIR VENT, SEE DETAIL 3 / 05-C-1501 , UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO PROVIDE OWNER WITH ACCESS TO HEADWORKS AT ALL TIMES WITHIN 15 MINUTES OF REQUEST.
3. FOR TRENCH CUTOFF WALL, SEE DETAIL 1 / 05-C-1501 .
4. APPROXIMATE LOCATION AND LENGTH OF BYPASSING SHOWN ON PLANS, CONTRACTOR TO VERIFY BASED ON FIELD CONDITIONS. SEE SECTION 01 57 28 TEMPORARY FLOW CONTROL.
5. THRUST BLOCK, SEE DETAIL 4 / 05-C-1503 .
6. TEMPORARY CONNECTION OF EXISTING 20" WOOD STAVE PIPELINE TO PROPOSED 30" HDPE PIPELINE, SEE SECTION 01 57 28 TEMPORARY FLOW CONTROL.
7. INSTALL FLANGE ADAPTER WITH BACKING RING.
8. FILTER STRIP, SEE DETAIL 7 / 05-C-1503 .

REGISTERED PROFESSIONAL ENGINEER
60202PE
OREGON
JULY 8, 2014
MATTHEW JOHN BALDWIN
Digital Signature
EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	REVISION
		A SITTEL	C ECKBERG	M BALDWIN	APVD	B FULLER	

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Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

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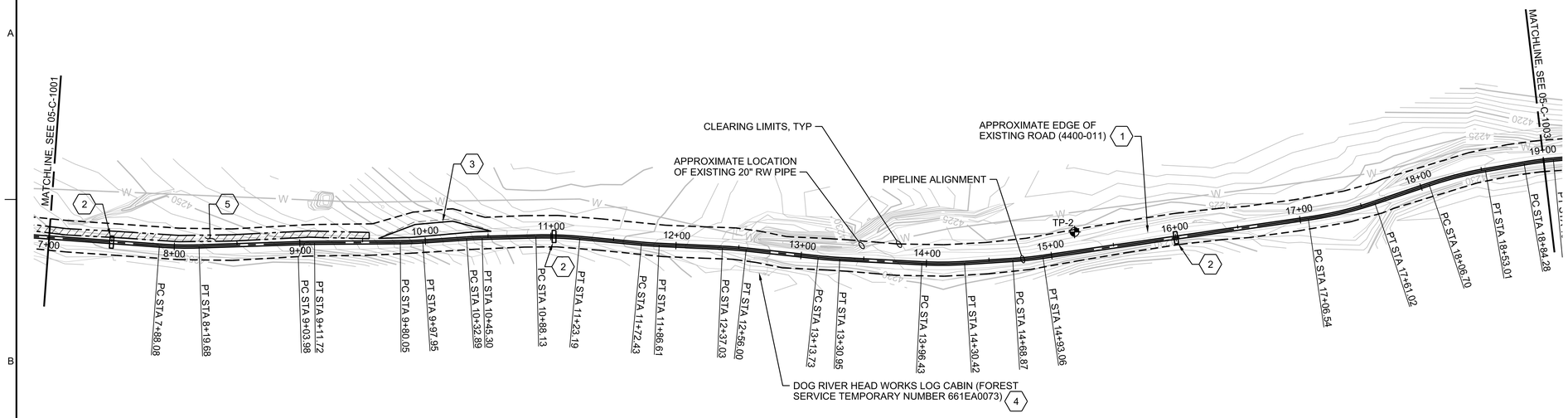
CIVIL
PIPELINE
PLAN AND PROFILE 1

ISSUED FOR CONSTRUCTION

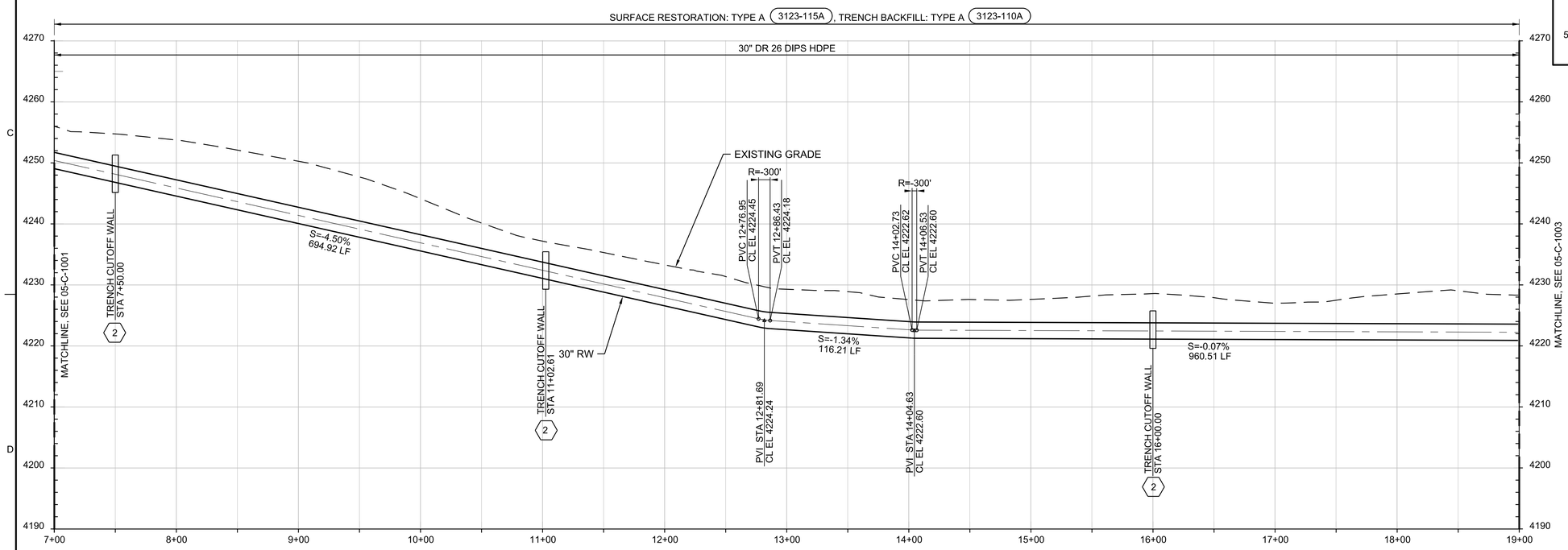
CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1001
SHEET	41 of 76



PLAN

SCALE: 1"=50'



PROFILE

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'

0 50 100 150
Scale In Feet

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. FOR SURFACE RESTORATION AND TRENCH BACKFILL TYPES, SEE 99-C-0001.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
4. CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES SHOWN ON EROSION CONTROL DRAWINGS, THESE ARE THE MINIMUM REQUIRED.
5. FOR PIPELINE HORIZONTAL ALIGNMENT CONTROL, SEE DRAWINGS 05-C-1100 THROUGH 05-C-1102.
6. FOR TEST PIT COORDINATES, SEE DRAWING 05-C-0100.

SHEET KEYNOTES

1. CONTRACTOR TO PROVIDE OWNER WITH ACCESS TO HEADWORKS AT ALL TIMES WITHIN 15 MINUTES OF REQUEST.
2. FOR TRENCH CUTOFF WALL, SEE DETAIL 1 / 05-C-1501.
3. TURNOUT, SEE DETAIL 1 / 05-C-1502 SIM.
4. INSTALL HIGH VISIBILITY TEMPORARY FENCING AROUND DOG RIVER HEAD WORKS LOG CABIN PER SECTION 01 57 13 TEMPORARY EROSION AND SEDIMENT CONTROL.
5. FILTER STRIP, SEE DETAIL 7 / 05-C-1503.

REGISTERED PROFESSIONAL ENGINEER — 60202PE — Digital Signature — OREGON — JULY 8, 2014 — MATTHEW JOHN BALDWIN

EXP: 12-31-2023

NO.	DATE	DR	CHK	APVD	BY	REVISION
DSGN	A SITTEL	C ECKBERG	M BALDWIN	APVD	B FULLER	

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Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

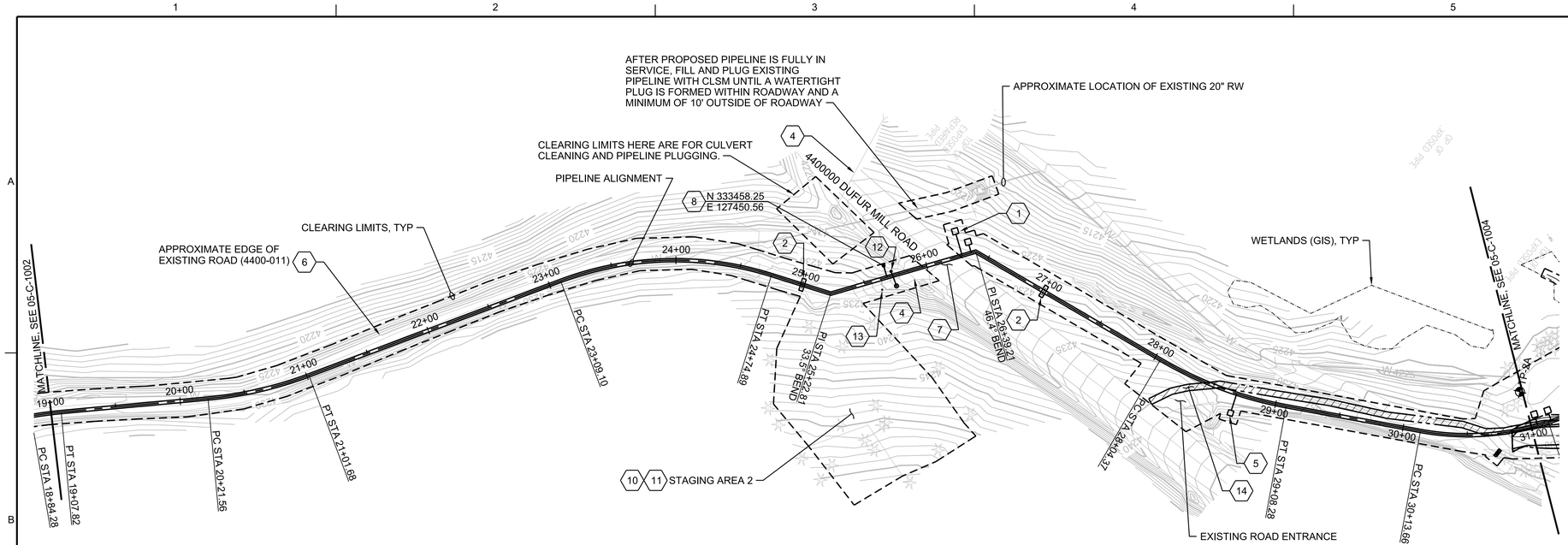
Jacobs

CIVIL
PIPELINE
PLAN AND PROFILE 2

ISSUED FOR CONSTRUCTION

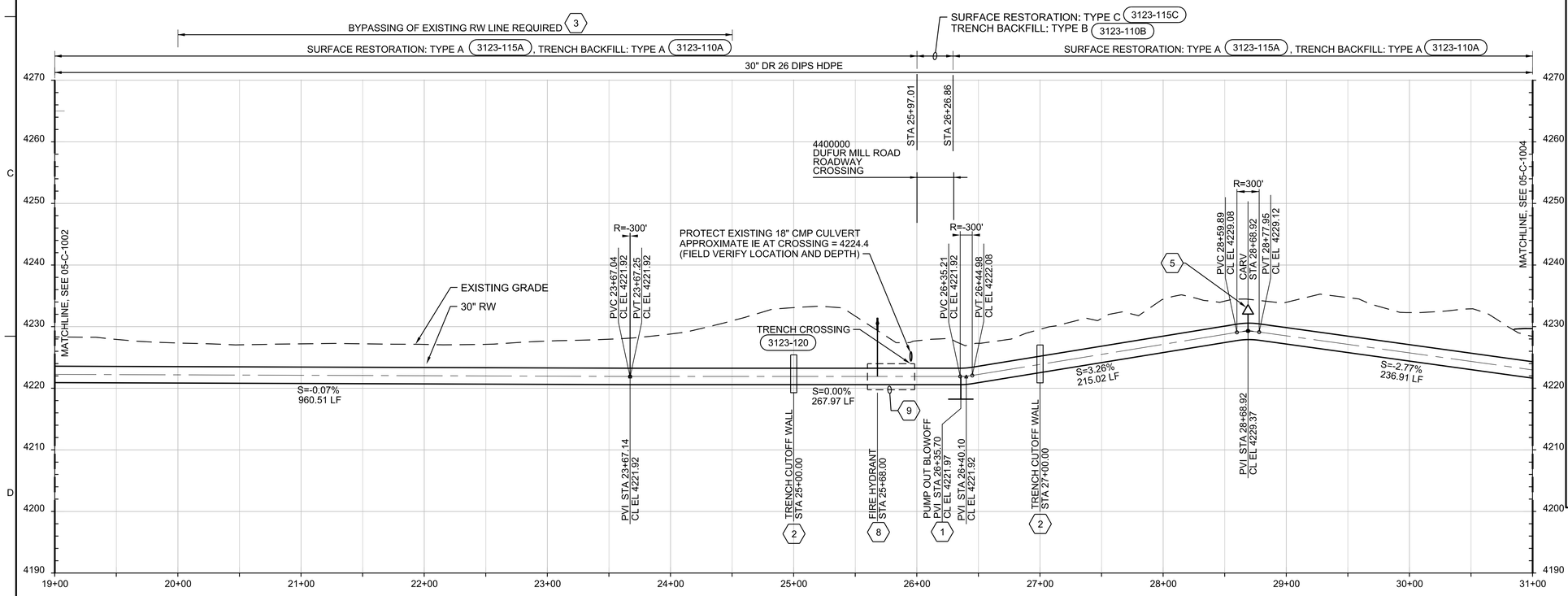
CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1002
SHEET	42 of 76



PLAN

SCALE: 1"=50'



PROFILE

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'

0 50 100 150
Scale In Feet

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. FOR SURFACE RESTORATION AND TRENCH BACKFILL TYPES, SEE 99-C-0001.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
4. CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES SHOWN ON EROSION CONTROL DRAWINGS, THESE ARE THE MINIMUM REQUIRED.
5. FOR PIPELINE HORIZONTAL ALIGNMENT CONTROL, SEE DRAWINGS 05-C-1100 THROUGH 05-C-1102.
6. FOR TEST PIT COORDINATES, SEE DRAWING 05-C-0100.

SHEET KEYNOTES

1. FOR PUMP OUT BLOWOFF COORDINATES, SEE DWG 05-C-1102, SEE DETAIL 2 / 05-C-1502, SIM. ACCESS PORT NOT SHOWN FOR CLARITY.
2. FOR TRENCH CUTOFF WALL, SEE DETAIL 1 / 05-C-1501.
3. APPROXIMATE LOCATION AND LENGTH OF BYPASSING SHOWN ON PLANS, CONTRACTOR TO VERIFY BASED ON FIELD CONDITIONS. SEE SECTION 01 57 28 TEMPORARY FLOW CONTROL.
4. CLEAN CULVERT AFTER CONCLUSION OF PIPELINE PROJECT
5. COMBINATION AIR RELEASE VALVE ASSEMBLY, SEE DETAIL 2 / 05-C-1501.
6. CONTRACTOR TO PROVIDE OWNER WITH ACCESS TO HEADWORKS AT ALL TIMES WITHIN 15 MINUTES OF REQUEST.
7. MATCH EXISTING PAVEMENT MARKINGS PER SPECIFICATION SECTION 32 17 23, PAVEMENT MARKINGS.
8. FIRE HYDRANT 3312-770 5 / 05-C-1503.
9. CONNECTION, SEE DETAIL 5 / 05-C-1503.
10. PLACE 6" MINIMUM COMPACTED (8"-10" LOOSE) GRAVEL SURFACING AT PRIMARY PIPE STORAGE AREAS, INCLUDING STAGING AREAS. TURN AROUND AREAS ARE REQUIRED TO HAVE COMPACTED GRAVEL SURFACING.
11. LEAVE STAGING AREA 2 IN A USABLE MANNER FOR DOG RIVER DIVERSION FISH SCREENING AND PASSAGE PROJECT CONTRACTOR, PER SPECIFICATION SECTION 01 50 00, TEMPORARY FACILITIES AND CONTROLS.
12. REMOVE AND REPLACE EXISTING GATE WITH SINGLE ARM GATE WITH SLIDE TELESCOPE, SEE DETAIL 1 / 05-C-1504. COORDINATE LAYOUT AND LOCATION WITH ENGINEER.
13. GATE TIE-DOWN POST LOCATION, SEE DETAIL 1 / 05-C-1504.
14. FILTER STRIP, SEE DETAIL 7 / 05-C-1503.

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 8, 2014
MATTHEW JOHN BALDWIN
Digital Signature
60202PE
EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	REVISION	APVD
		A SITTEL	C ECKBERG	M BALDWIN		B FULLER		

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Jacobs

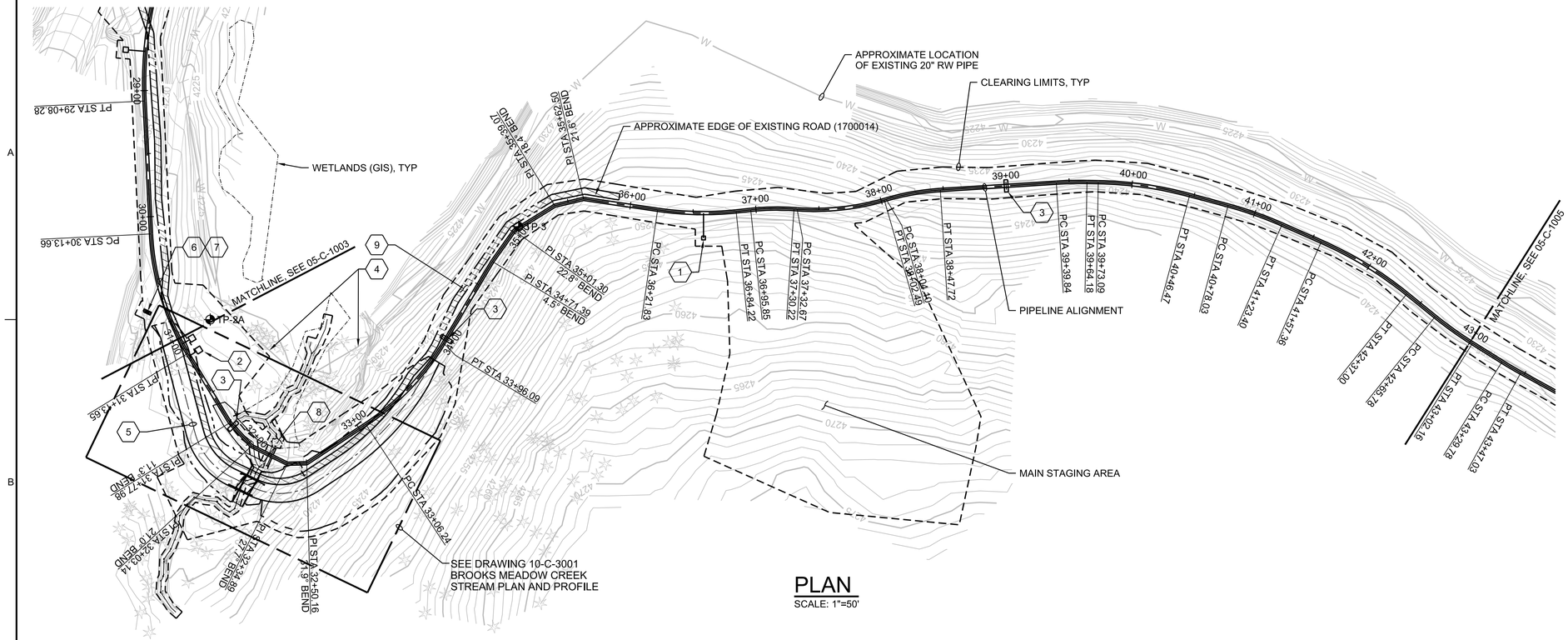
Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

CIVIL
PIPELINE
PLAN AND PROFILE 3

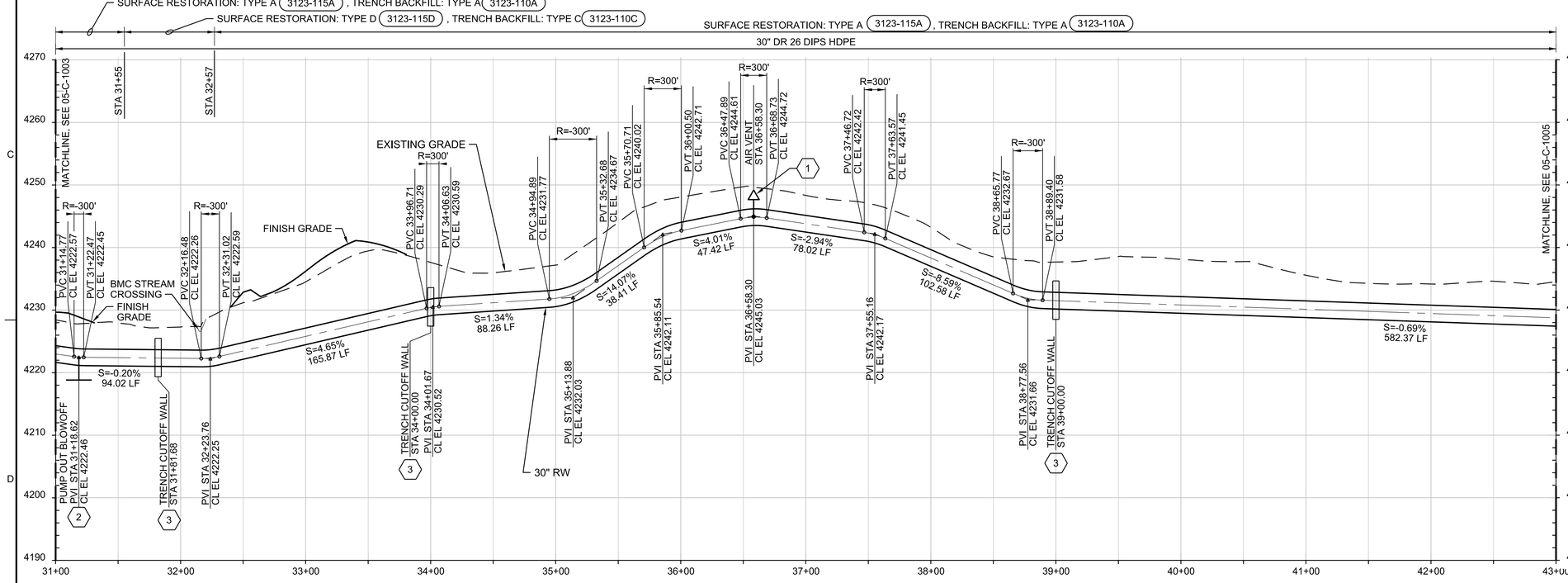
ISSUED FOR CONSTRUCTION

CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1003
SHEET	43 of 76



PLAN
SCALE: 1"=50'



PROFILE
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. FOR SURFACE RESTORATION AND TRENCH BACKFILL TYPES, SEE 99-C-0001.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
4. CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES SHOWN ON EROSION CONTROL DRAWINGS, THESE ARE THE MINIMUM REQUIRED.
5. FOR PIPELINE HORIZONTAL ALIGNMENT CONTROL, SEE DRAWINGS 05-C-1100 THROUGH 05-C-1102.
6. FOR TEST PIT COORDINATES, SEE DRAWING 05-C-0100.

SHEET KEYNOTES

1. FOR AIR VENT, SEE DETAIL 3 / 05-C-1501 UNLESS OTHERWISE NOTED.
2. FOR PUMP OUT BLOWOFF COORDINATES, SEE DWG 05-C-1102, SEE DETAIL 2 / 05-C-1502 SIM. ACCESS PORT NOT SHOWN FOR CLARITY.
3. FOR TRENCH CUTOFF WALL, SEE DETAIL 1 / 05-C-1501.
4. AFTER PROPOSED PIPELINE IS FULLY IN SERVICE, CUT INTO EXISTING 20" RW TRANSMISSION LINE AND FILL WITH CLSM UNTIL A WATERTIGHT PLUG IS FORMED ON BOTH SIDES OF THE BROOKS MEADOW CREEK STREAM. KEEP WORK OUTSIDE OF THE BOUNDARY OF THE BROOKS MEADOW CREEK STREAM AND WETLANDS.
5. REALIGNED FOREST SERVICE ROAD 1700014 AT BROOKS MEADOW CREEK, SEE DRAWINGS 10-C-2001 AND 10-C-2002.
6. MANUFACTURER: WOOD PRODUCTS SIGNS

   PRODUCT: ONE WATERSHED BULLETIN BOARD PANEL WITH RICHMOND BULLETIN BOARD KIT. WOOD POSTS SHALL BE 6"x6" CCA TREATED ROUGH SAWN WESTERN RED CEDAR WITH OXFORD BROWN STAIN AND BEVELED TOPS.

   HEADER AND FOOTER: HEADER PIECE ON BULLETIN BOARD SHALL READ "INFORMATION", FOOTER PIECE ON BULLETIN BOARD SHALL READ "MT HOOD NATIONAL FOREST". BOTH HEADER AND FOOTER SHALL BE FOREST SERVICE BROWN LETTERING WITH FOREST SERVICE YELLOW BACKGROUND.

   PLACEMENT: PANELS SHALL BE MOUNTED ON FRAME STARTING AT 36-INCHES FROM GROUND, HEADER SHALL BE FLUSH WITH TOP OF POST. EMBED POSTS 30-INCHES INTO CONCRETE.

   SHOP DRAWINGS AND PRODUCT DATA SHALL BE SUBMITTED FOR ALL WOOD PRODUCTS SIGNS. NO EQUALS OR SUBSTITUTIONS ALLOWED.
7. 4' THICK CONCRETE PAD, 1' SQUARE, WITH #4@12" EW
8. CONTRACTOR NOT ALLOWED TO USE EXISTING BMC FORD FOR VEHICULAR TRAFFIC.
9. FILTER STRIP, SEE DETAIL 7 / 05-C-1503.

REGISTERED PROFESSIONAL ENGINEER — OREGON — JOHN BALDWIN — MATTHEW JOHN — Digital Signature — 60202PE — EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	REVISION
		A SITTEL	C ECKBERG	M BALDWIN	B FULLER		

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REUSE OF DOCUMENTS:

Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

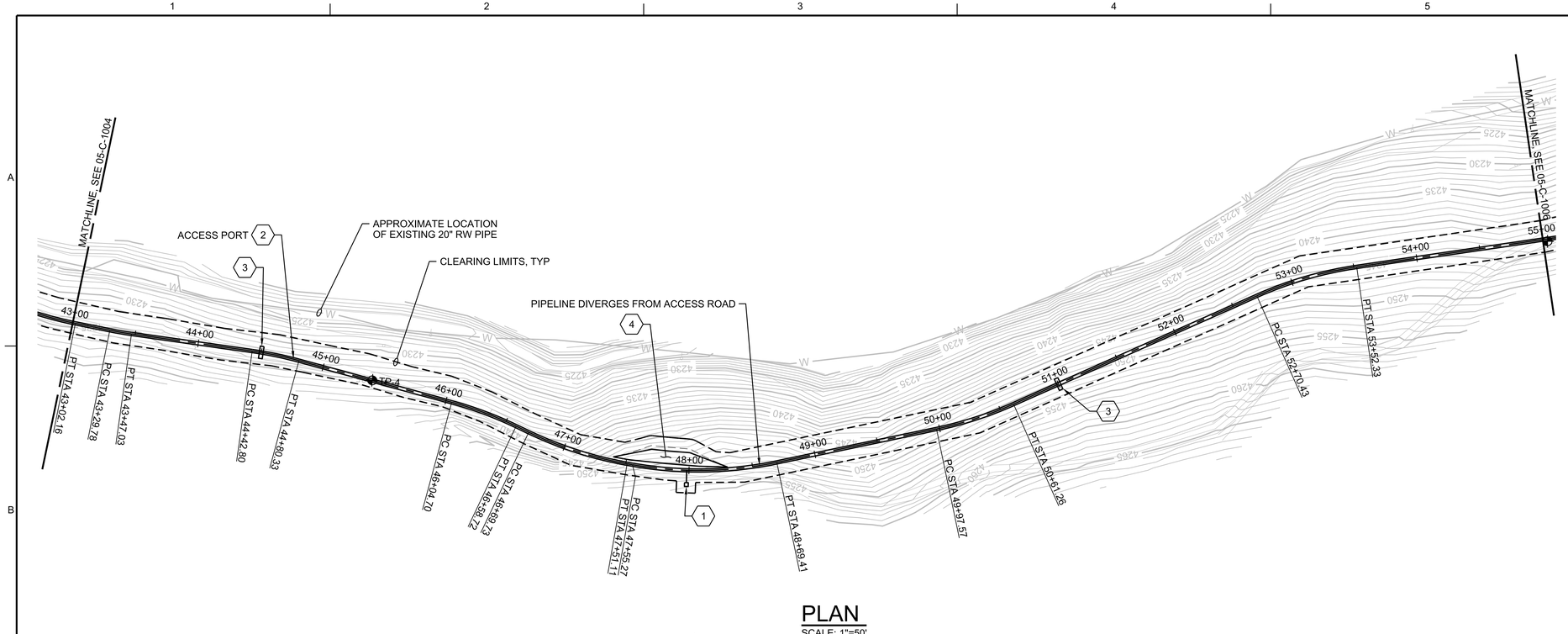
Jacobs

CIVIL
PIPELINE
PLAN AND PROFILE 4

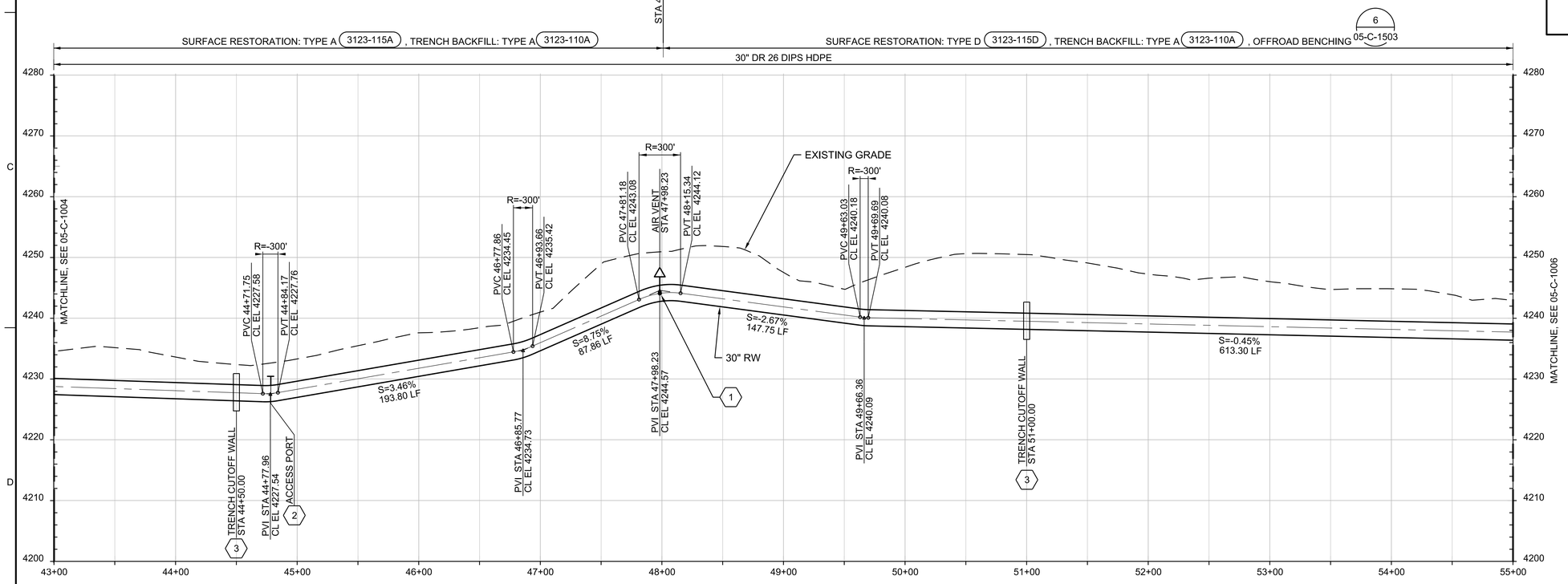
ISSUED FOR CONSTRUCTION

CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

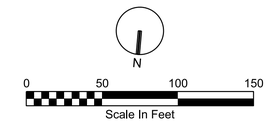
DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1004
SHEET	44 of 76



PLAN
SCALE: 1"=50'



PROFILE
HORIZONTAL SCLE: 1"=50'
VERTICAL SCALE: 1"=10'



GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. FOR SURFACE RESTORATION AND TRENCH BACKFILL TYPES, SEE 99-C-0001.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
4. CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES SHOWN ON EROSION CONTROL DRAWINGS, THESE ARE THE MINIMUM REQUIRED.
5. FOR PIPELINE HORIZONTAL ALIGNMENT CONTROL, SEE DRAWINGS 05-C-1100 THROUGH 05-C-1102.
6. FOR TEST PIT COORDINATES, SEE DRAWING 05-C-0100.

SHEET KEYNOTES

1. FOR AIR VENT, SEE DETAIL 3 / 05-C-1501 , UNLESS OTHERWISE NOTED.
2. FOR ACCESS PORT, SEE DETAIL 2 / 05-C-1503
3. FOR TRENCH CUTOFF WALL, SEE DETAIL 2 / 05-C-1501 .
4. TURNOUT, SEE DETAIL 1 / 05-C-1502 SIM.

REGISTERED PROFESSIONAL ENGINEER — OREGON — JULY 8, 2014 — JOHN BALDWIN MATTHEW — Digital Signature — 69202PE — EXP: 12-31-2023

NO.	DSGN	DR	DATE	REVISION	CHK	APVD	BY	APVD
	A SITTEL	C ECKBERG			M BALDWIN		B FULLER	

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Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

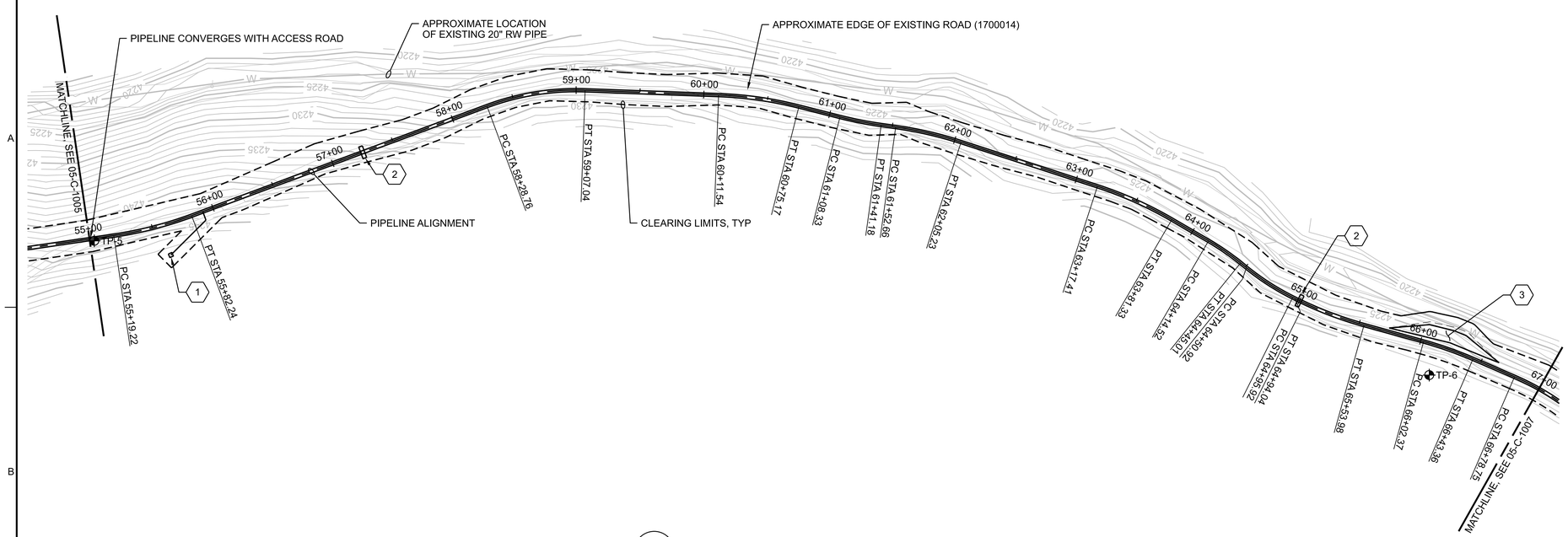
CIVIL
PIPELINE
PLAN AND PROFILE 5

ISSUED FOR CONSTRUCTION

CONTRACT NO.: 2022-001

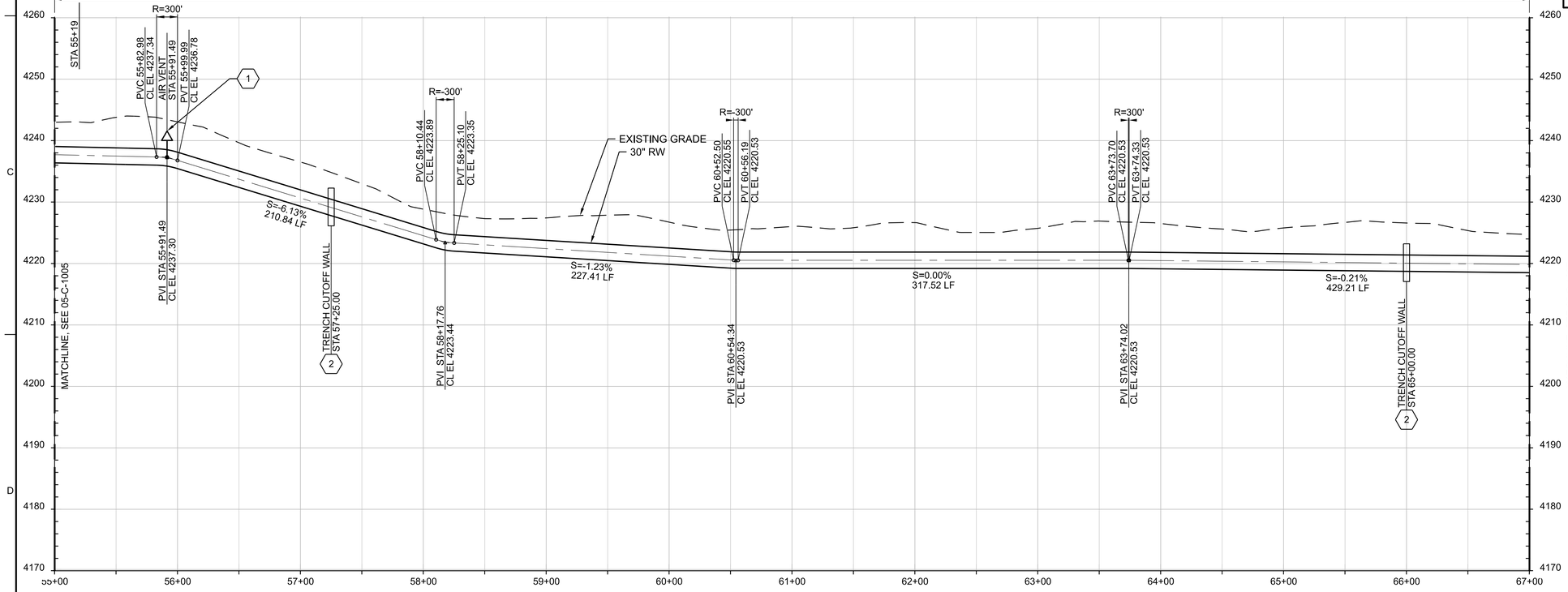
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1005
SHEET	45 of 76

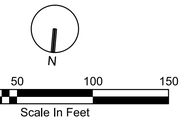


SURFACE RESTORATION: TYPE D (3123-115D), TRENCH BACKFILL: TYPE A (3123-110A), OFFROAD BENCHING (6, 05-C-1503)

PLAN
SCALE: 1"=50'



PROFILE
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'



GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
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3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
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5. FOR PIPELINE HORIZONTAL ALIGNMENT CONTROL, SEE DRAWINGS 05-C-1100 THROUGH 05-C-1102.
6. FOR TEST PIT COORDINATES, SEE DRAWING 05-C-0100.

SHEET KEYNOTES

1. FOR AIR VENT, SEE DETAIL 3 / 05-C-1501, UNLESS OTHERWISE NOTED.
2. FOR TRENCH CUTOFF WALL, SEE DETAIL 1 / 05-C-1501.
3. TURNOUT, SEE DETAIL 1 / 05-C-1502 SIM.

REGISTERED PROFESSIONAL ENGINEER — OREGON — JULY 8, 2014 — JOHN BALDWIN MATTHEW
Digital Signature
69202PE
EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	REVISION
		A SITTEL	C ECKBERG	M BALDWIN		B FULLER	

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REUSE OF DOCUMENTS:

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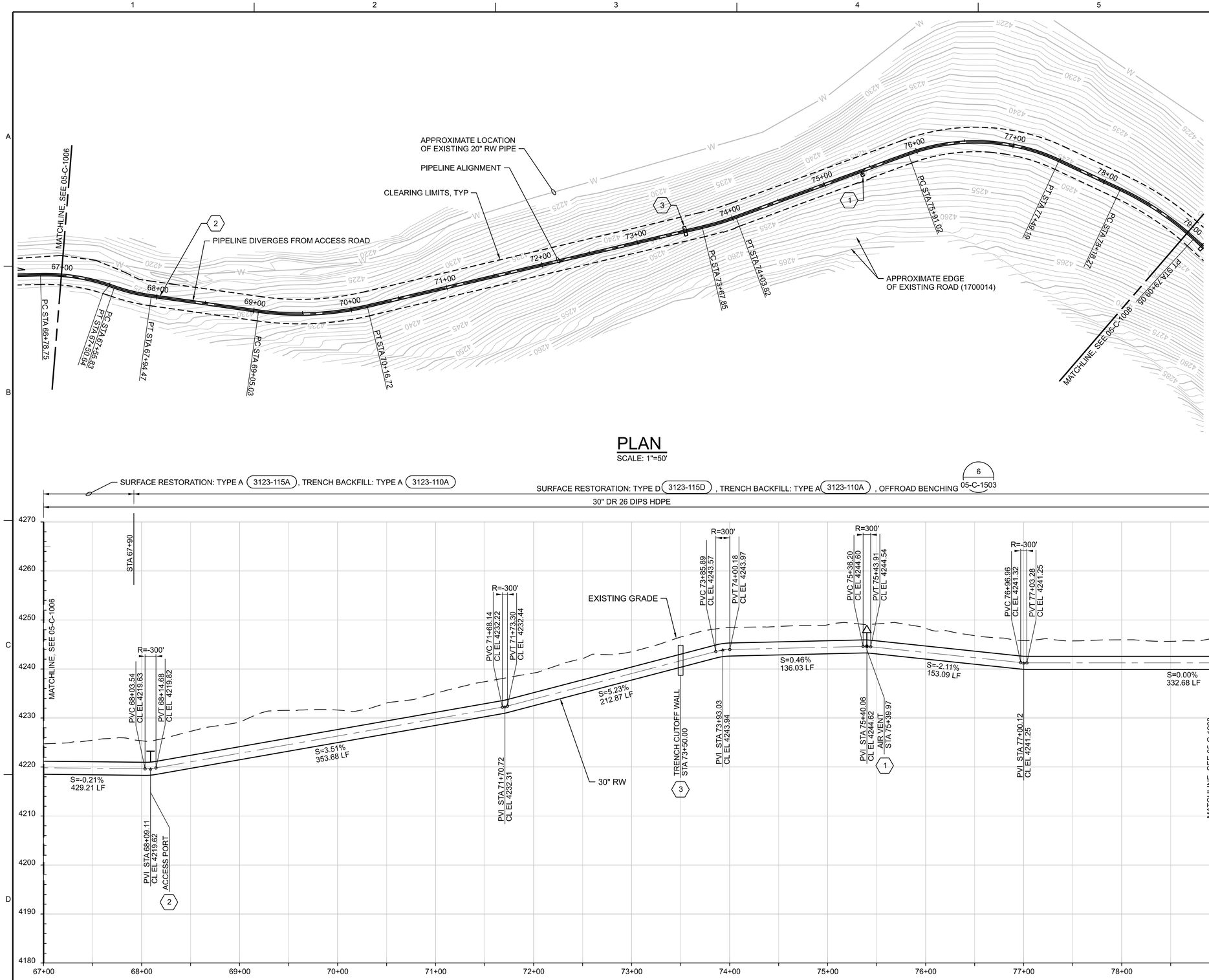
Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

Jacobs

CIVIL
PIPELINE
PLAN AND PROFILE 6

CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1006
SHEET	46 of 76

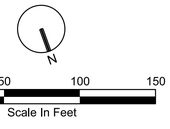


PLAN

SCALE: 1"=50'

PROFILE

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'



GENERAL NOTES:

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2. FOR SURFACE RESTORATION AND TRENCH BACKFILL TYPES, SEE 99-C-0001.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
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6. FOR TEST PIT COORDINATES, SEE DRAWING 05-C-0100.

SHEET KEYNOTES

1. FOR AIR VENT, SEE DETAIL 3 / 05-C-1501, UNLESS OTHERWISE NOTED.
2. FOR ACCESS PORT, SEE DETAIL 2 / 05-C-1503
3. FOR TRENCH CUTOFF WALL, SEE DETAIL 1 / 05-C-1501.

REGISTERED PROFESSIONAL ENGINEER — 60202PE — OREGON — JULY 8, 2014 — MATTHEW JOHN BALDWIN
Digital Signature
EXP: 12/31/2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	REVISION
		A SITTEL	C ECKBERG	M BALDWIN	B FULLER		

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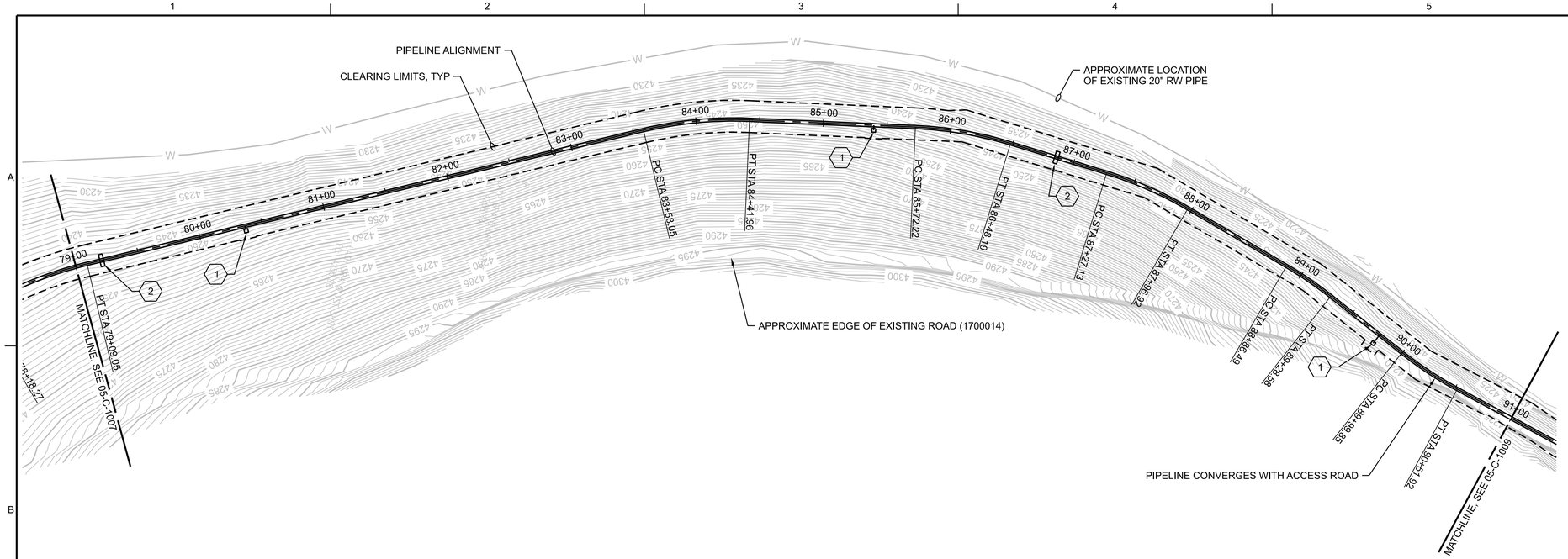
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

Jacobs

CIVIL
PIPELINE
PLAN AND PROFILE 7

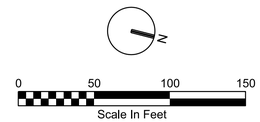
ISSUED FOR CONSTRUCTION

CONTRACT NO.:	2022-001
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 — 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1007
SHEET	47 of 76



PLAN

SCALE: 1"=50'



GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. FOR SURFACE RESTORATION AND TRENCH BACKFILL TYPES, SEE 99-C-0001.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
4. CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES SHOWN ON EROSION CONTROL DRAWINGS, THESE ARE THE MINIMUM REQUIRED.
5. FOR PIPELINE HORIZONTAL ALIGNMENT CONTROL, SEE DRAWINGS 05-C-1100 THROUGH 05-C-1102.
6. FOR TEST PIT COORDINATES, SEE DRAWING 05-C-0100.

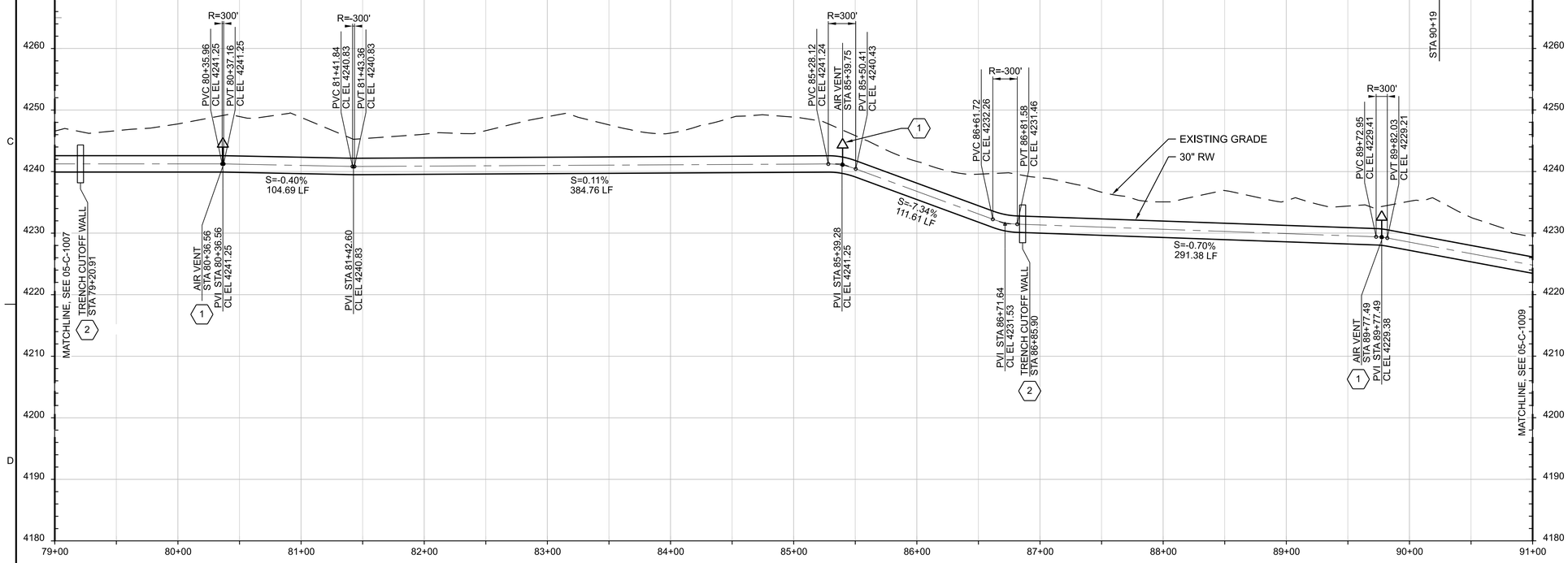
SHEET KEYNOTES

1. FOR AIR VENT, SEE DETAIL 3 / 05-C-1501, UNLESS OTHERWISE NOTED.
2. FOR TRENCH CUTOFF WALL, SEE DETAIL 1 / 05-C-1501.

SURFACE RESTORATION: TYPE D (3123-115D), TRENCH BACKFILL: TYPE A (3123-110A), OFFROAD BENCHING 6 / 05-C-1503

SURFACE RESTORATION: TYPE A (3123-115A), TRENCH BACKFILL: TYPE A (3123-110A)

30" DR 26 DIPS HDPE



PROFILE

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'

REGISTERED PROFESSIONAL ENGINEER
60202PE
OREGON
JULY 8, 2016
Digital Signature
JOHN BALDWIN
MATTHEW

EXP: 12-31-2023

NO.	DSGN	DATE	REVISION	DR	CHK	APVD	BY	APVD
				A SITTEL	C ECKBERG	M BALDWIN		B FULLER

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PIPELINE
PLAN AND PROFILE 8

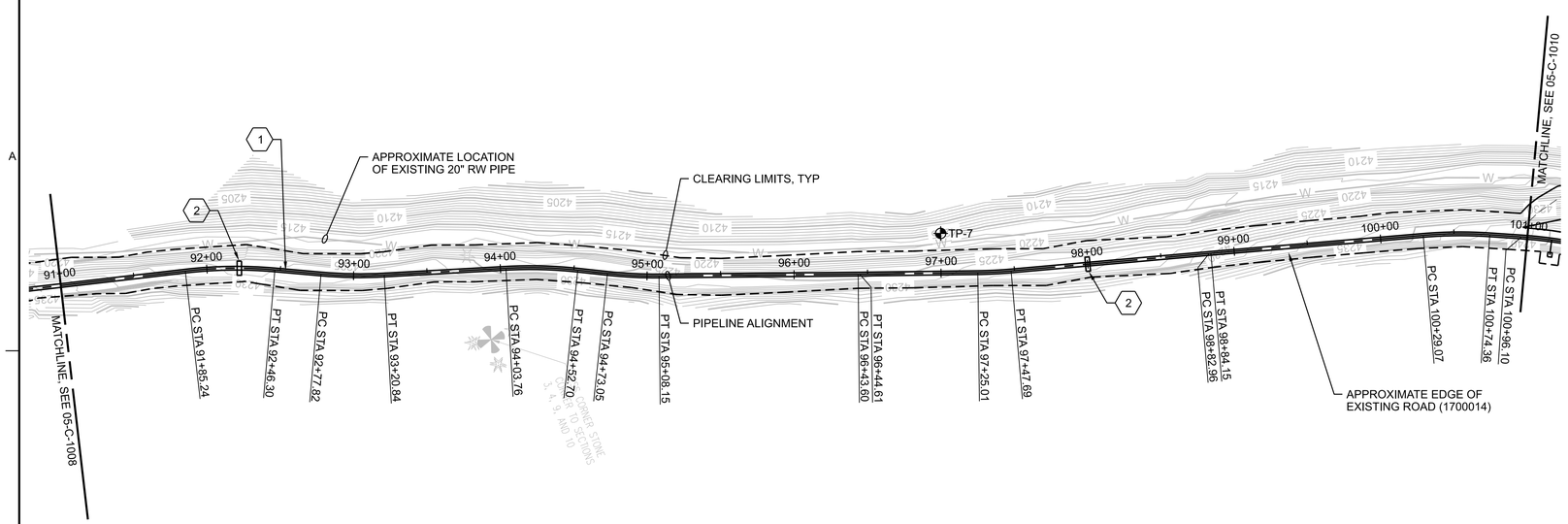
Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

CONTRACT NO.: 2022-001

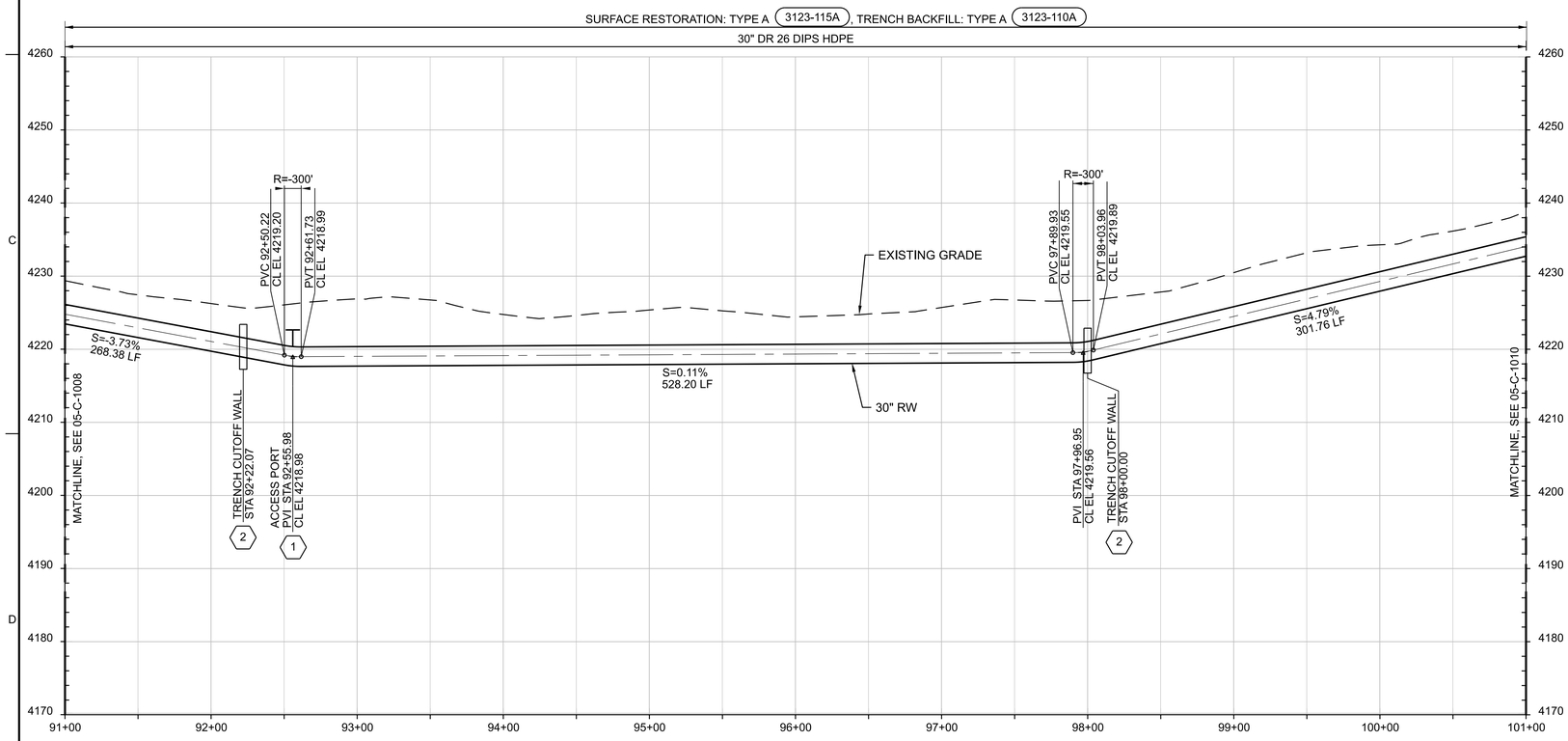
VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

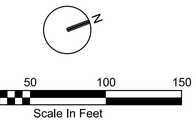
DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1008
SHEET	48 of 76



PLAN
SCALE: 1"=50'



PROFILE
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'



GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. FOR SURFACE RESTORATION AND TRENCH BACKFILL TYPES, SEE 99-C-0001.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
4. CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES SHOWN ON EROSION CONTROL DRAWINGS, THESE ARE THE MINIMUM REQUIRED.
5. FOR PIPELINE HORIZONTAL ALIGNMENT CONTROL, SEE DRAWINGS 05-C-1100 THROUGH 05-C-1102.
6. FOR TEST PIT COORDINATES, SEE DRAWING 05-C-0100.

SHEET KEYNOTES

1. FOR ACCESS PORT, SEE DETAIL 2 / 05-C-1503.
2. FOR TRENCH CUTOFF WALL, SEE DETAIL 1 / 05-C-1501.

REGISTERED PROFESSIONAL ENGINEER
60202PE
OREGON
JULY 8, 2014
MATTHEW JOHN BALDWIN
Digital Signature
EXP: 12-31-2023

NO.	DATE	DSGN	REVISION	CHK	BY	APVD
		A SITTEL	C ECKBERG	M BALDWIN	B FULLER	

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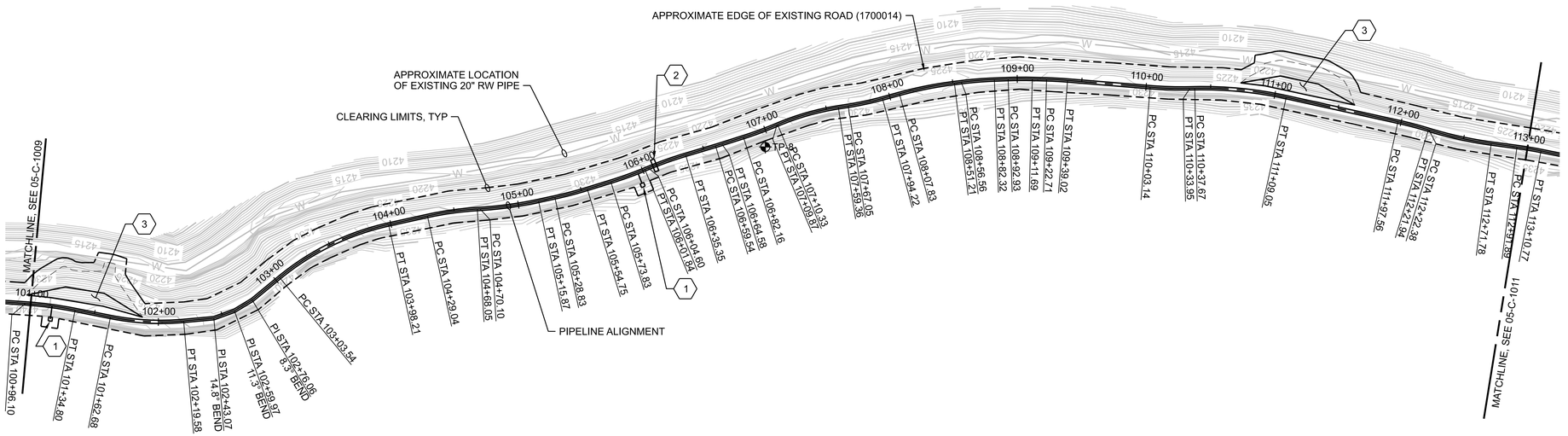
PIPELINE
PLAN AND PROFILE 9

Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

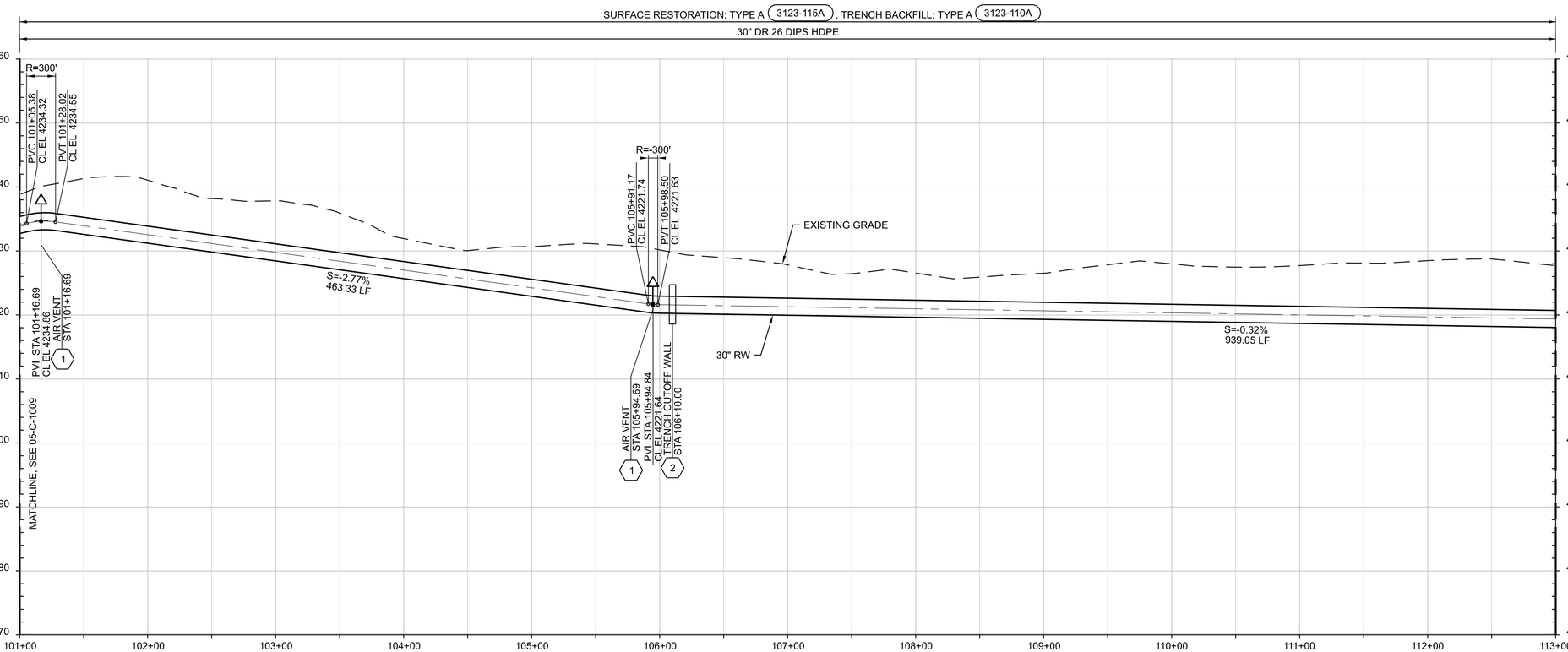
CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1009
SHEET	49 of 76



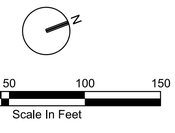
PLAN

SCALE: 1"=50'



PROFILE

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'



GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. FOR SURFACE RESTORATION AND TRENCH BACKFILL TYPES, SEE 99-C-0001.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
4. CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES SHOWN ON EROSION CONTROL DRAWINGS, THESE ARE THE MINIMUM REQUIRED.
5. FOR PIPELINE HORIZONTAL ALIGNMENT CONTROL, SEE DRAWINGS 05-C-1100 THROUGH 05-C-1102.
6. FOR TEST PIT COORDINATES, SEE DRAWING 05-C-0100.

SHEET KEYNOTES

1. FOR AIR VENT, SEE DETAIL 3 / 05-C-1501, UNLESS OTHERWISE NOTED.
2. FOR TRENCH CUTOFF WALL, SEE DETAIL 1 / 05-C-1501.
3. TURNOUT, SEE DETAIL 1 / 05-C-1502 SIM.

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EXP: 12-31-2023

NO.	DATE	REVISION	DR	CHK	APVD	BY
DSGN	A SITTEL	C ECKBERG	M BALDWIN			B FULLER

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City Of The Dalles
The Dalles, OR

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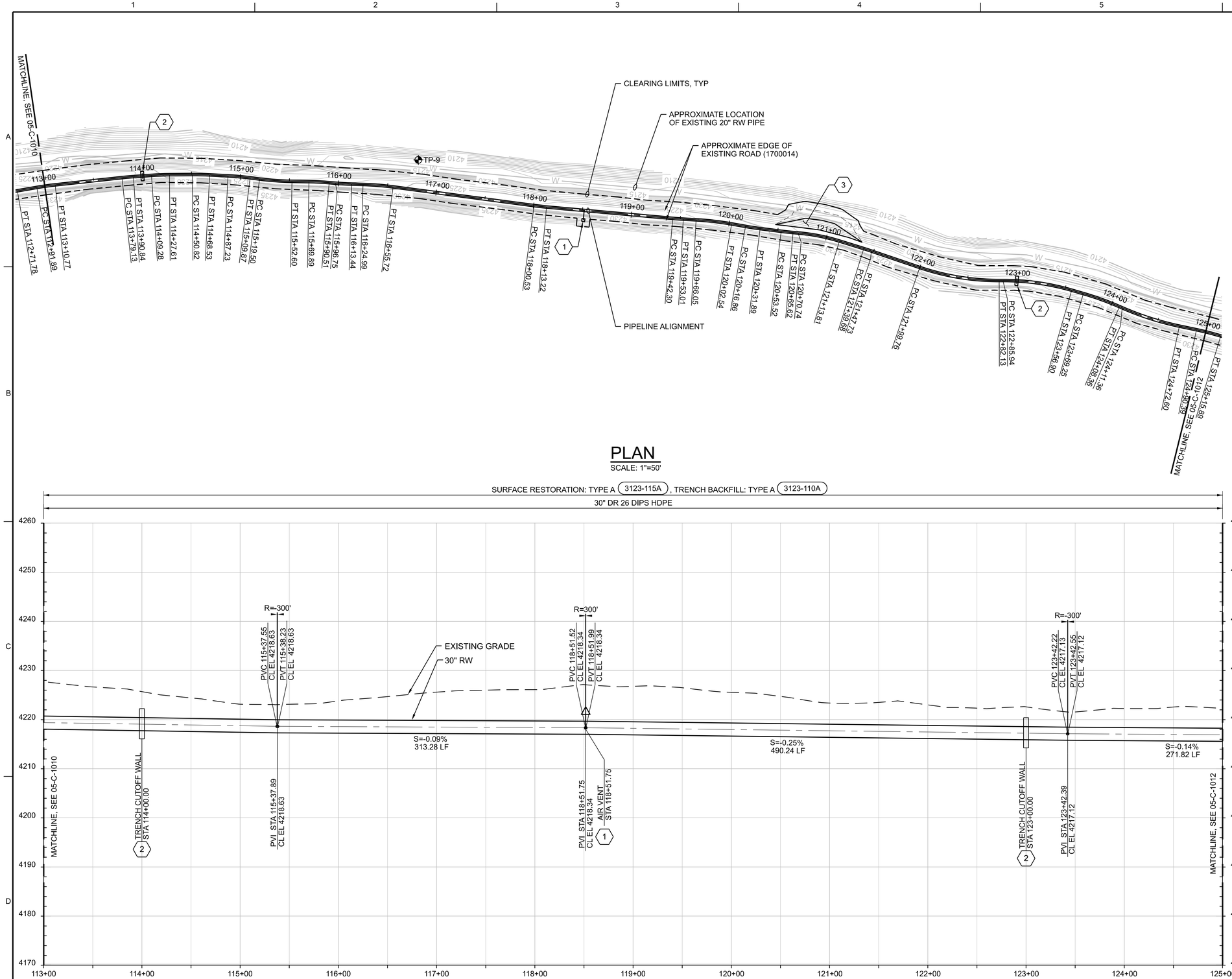
PIPELINE
PLAN AND PROFILE 10

CONTRACT NO.:	2022-001
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 — 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1010
SHEET	50 of 76



PLAN
SCALE: 1"=50'

SURFACE RESTORATION: TYPE A (3123-115A), TRENCH BACKFILL: TYPE A (3123-110A)

30" DR 26 DIPS HDPE

PROFILE
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. FOR SURFACE RESTORATION AND TRENCH BACKFILL TYPES, SEE 99-C-0001.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
4. CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES SHOWN ON EROSION CONTROL DRAWINGS, THESE ARE THE MINIMUM REQUIRED.
5. FOR PIPELINE HORIZONTAL ALIGNMENT CONTROL, SEE DRAWINGS 05-C-1100 THROUGH 05-C-1102.
6. FOR TEST PIT COORDINATES, SEE DRAWING 05-C-0100.

SHEET KEYNOTES

1. FOR AIR VENT, SEE DETAIL 3 / 05-C-1501, UNLESS OTHERWISE NOTED.
2. FOR TRENCH CUTOFF WALL, SEE DETAIL 1 / 05-C-1501.
3. TURNOUT, SEE DETAIL 1 / 05-C-1502 SIM.

REGISTERED PROFESSIONAL ENGINEER — OREGON — JULY 8, 2014 — JOHN BALDWIN MATTHEW
Digital Signature
60202PE
EXP: 12/31/2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	APVD
REVISION		A SITTEL	C ECKBERG	M BALDWIN			B FULLER

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City Of The Dalles
The Dalles, OR

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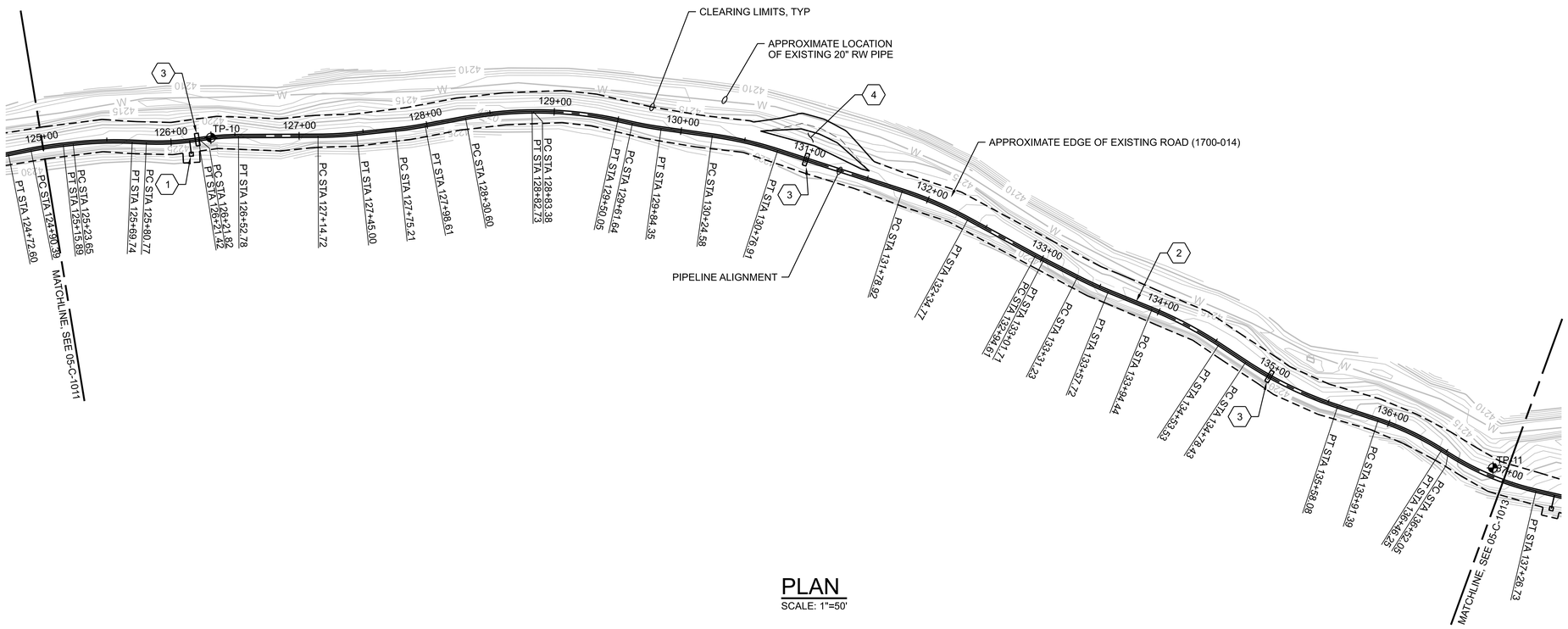
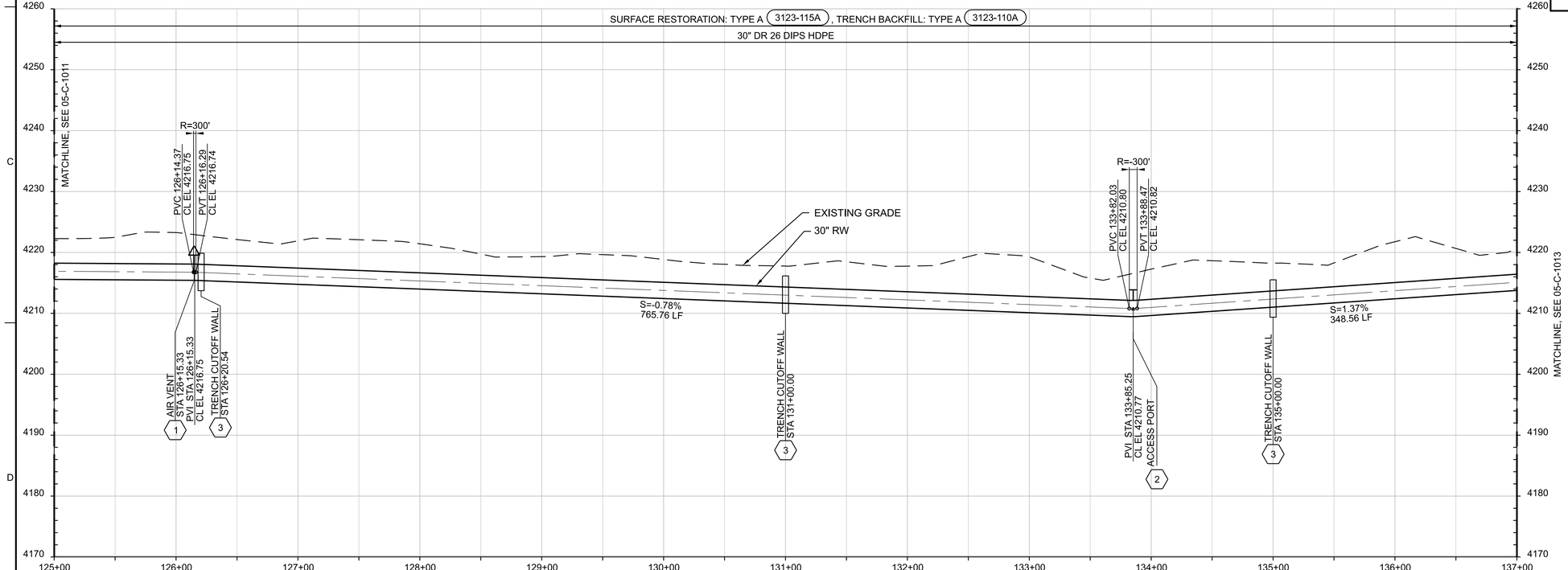
PIPELINE
PLAN AND PROFILE 11

ISSUED FOR CONSTRUCTION

CONTRACT NO.:	2022-001
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 — 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1011
SHEET	51 of 76



PLAN
SCALE: 1"=50'



PROFILE
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. FOR SURFACE RESTORATION AND TRENCH BACKFILL TYPES, SEE 99-C-0001.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
4. CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES SHOWN ON EROSION CONTROL DRAWINGS, THESE ARE THE MINIMUM REQUIRED.
5. FOR PIPELINE HORIZONTAL ALIGNMENT CONTROL, SEE DRAWINGS 05-C-1100 THROUGH 05-C-1102.
6. FOR TEST PIT COORDINATES, SEE DRAWING 05-C-0100.

SHEET KEYNOTES

1. FOR AIR VENT, SEE DETAIL 3 / 05-C-1501, UNLESS OTHERWISE NOTED.
2. FOR ACCESS PORT, SEE DETAIL 2 / 05-C-1503.
3. FOR TRENCH CUTOFF WALL, SEE DETAIL 1 / 05-C-1501.
4. TURNOUT, SEE DETAIL 1 / 05-C-1502 SIM.

N

0 50 100 150
Scale In Feet

REGISTERED PROFESSIONAL ENGINEER — Digital Signature — OREGON — JULY 8, 2014 — MATTHEW JOHN BALDWIN
60202PE
EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	APVD
		A SITTEL	C ECKBERG	M BALDWIN			B FULLER

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City Of The Dalles
The Dalles, OR

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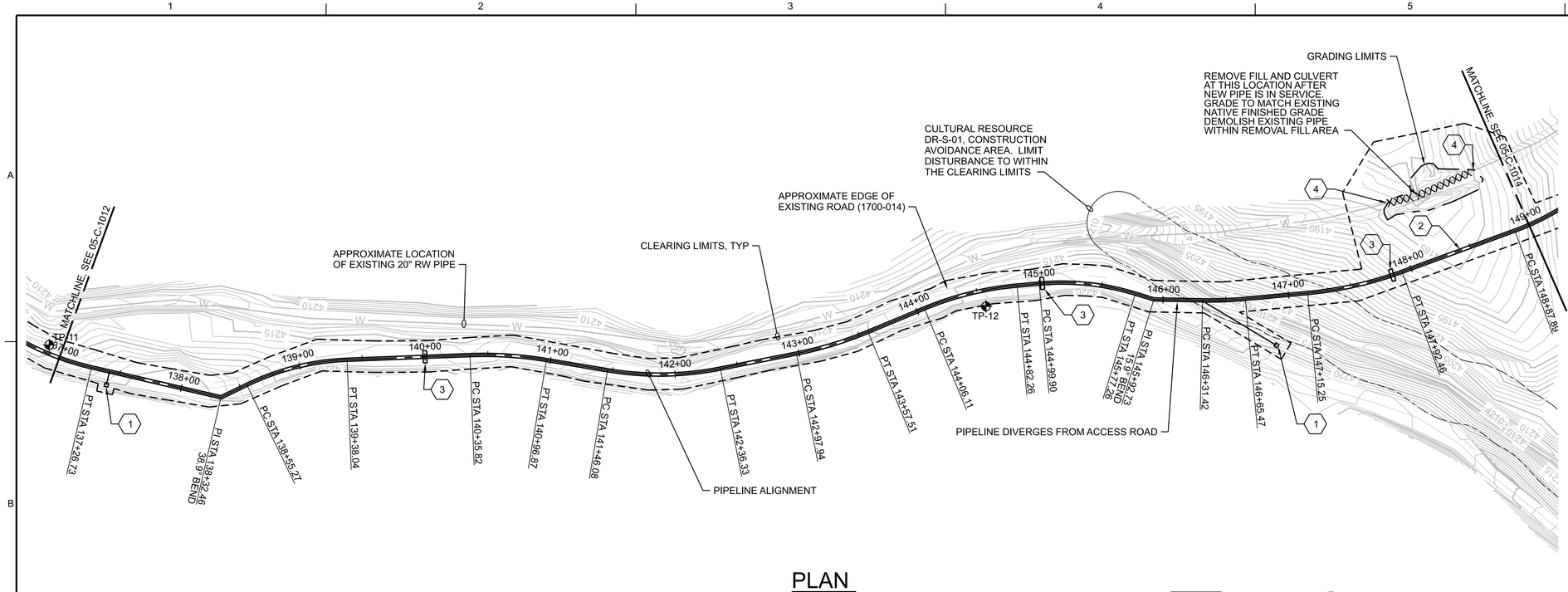
PIPELINE
PLAN AND PROFILE 12

ISSUED FOR CONSTRUCTION

CONTRACT NO.:	2022-001
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING, IF NOT 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1012
SHEET	52 of 76



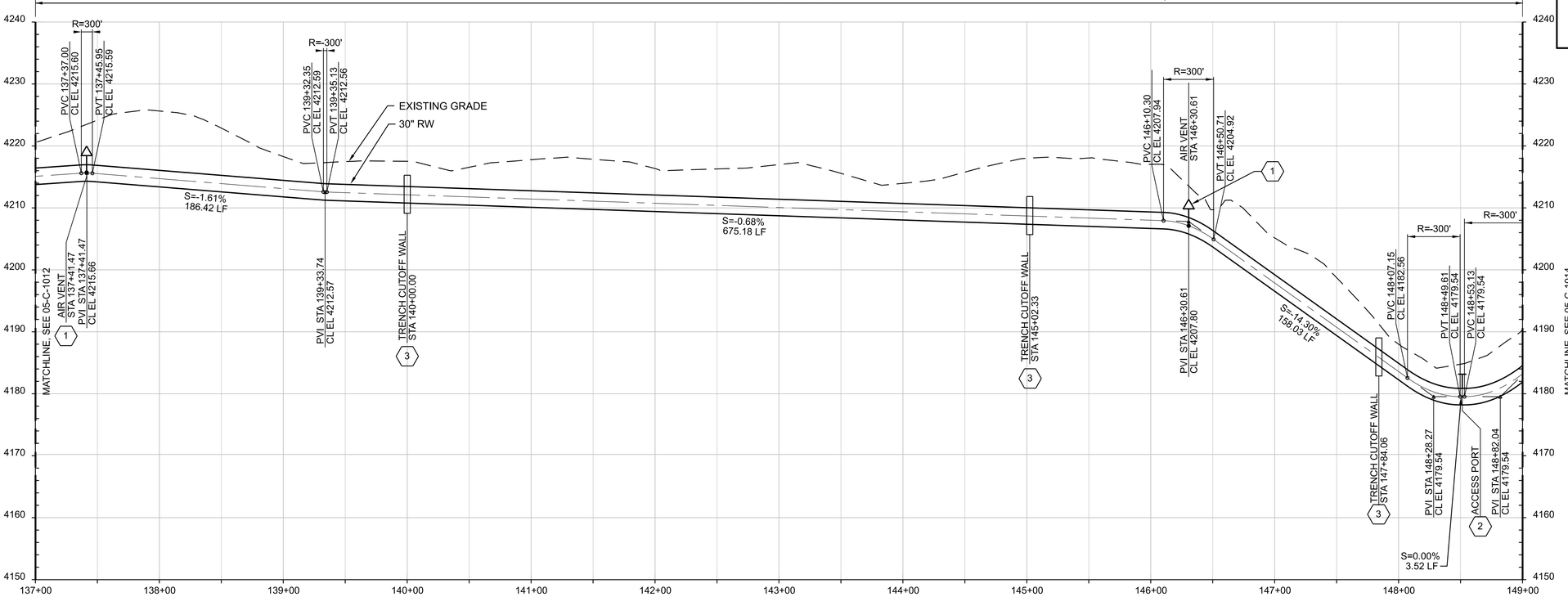
PLAN

SCALE: 1"=50'

SURFACE RESTORATION: TYPE A (3123-115A), TRENCH BACKFILL: TYPE A (3123-110A)

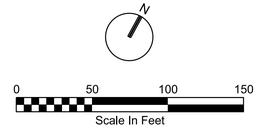
SURFACE RESTORATION: TYPE D (3123-115D) TRENCH BACKFILL: TYPE A (3123-110A), OFFROAD BENCHING (6, 05-C-1503)

30" DR 26 DIPS HDPE



PROFILE

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'



GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. FOR SURFACE RESTORATION AND TRENCH BACKFILL TYPES, SEE 99-C-0001.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
4. CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES SHOWN ON EROSION CONTROL DRAWINGS, THESE ARE THE MINIMUM REQUIRED.
5. FOR PIPELINE HORIZONTAL ALIGNMENT CONTROL, SEE DRAWINGS 05-C-1100 THROUGH 05-C-1102.
6. FOR TEST PIT COORDINATES, SEE DRAWING 05-C-0100.

SHEET KEYNOTES

1. FOR AIR VENT, SEE DETAIL 3 / 05-C-1501, UNLESS OTHERWISE NOTED.
2. FOR ACCESS PORT, SEE DETAIL 2 / 05-C-1503.
3. FOR TRENCH CUTOFF WALL, SEE DETAIL 1 / 05-C-1501.
4. PROVIDE ROCK SLOPE PROTECTION AT THE EXPOSED OUTLET OF THE EXISTING 20" RW TRANSMISSION PIPELINE, SEE DETAIL 1 / 05-C-1503.

REGISTERED PROFESSIONAL ENGINEER — OREGON — JULY 8, 2005 — MATTHEW JOHN BALDWIN — 60202PE — Digital Signature — EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	APVD
		A SITTEL	C ECKBERG	M BALDWIN			B FULLER

REVISION

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Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

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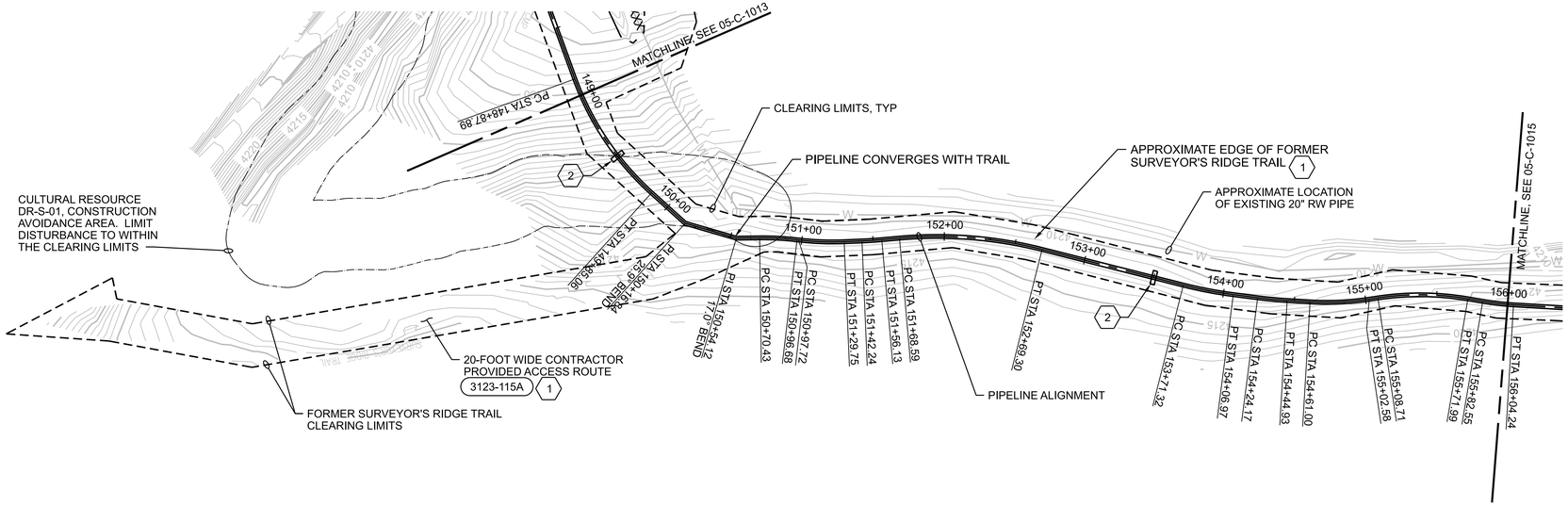
CIVIL
PIPELINE
PLAN AND PROFILE 13

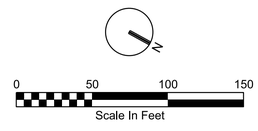
CONTRACT NO.: 2022-001

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1013
SHEET	53 of 76

ISSUED FOR CONSTRUCTION





GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. FOR SURFACE RESTORATION AND TRENCH BACKFILL TYPES, SEE 99-C-0001.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
4. CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES SHOWN ON EROSION CONTROL DRAWINGS, THESE ARE THE MINIMUM REQUIRED.
5. FOR PIPELINE HORIZONTAL ALIGNMENT CONTROL, SEE DRAWINGS 05-C-1100 THROUGH 05-C-1102.
6. FOR TEST PIT COORDINATES, SEE DRAWING 05-C-0100.

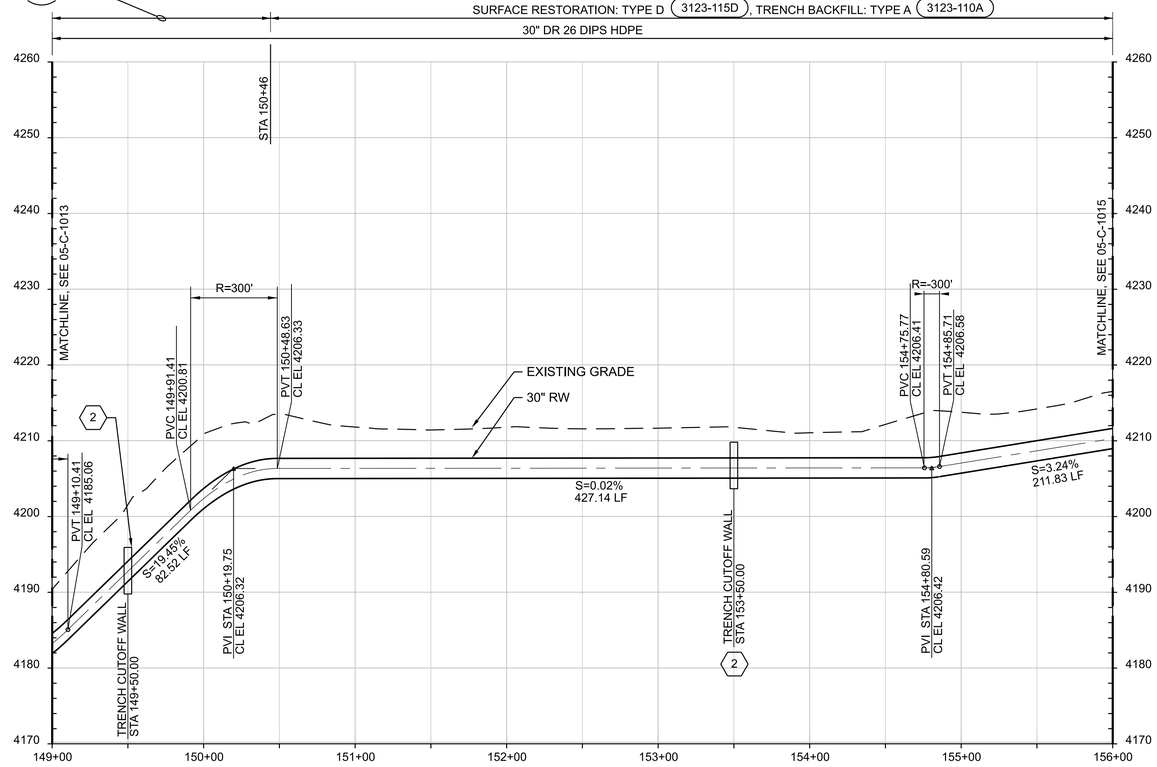
SHEET KEYNOTES

1. UPON PIPELINE CONSTRUCTION COMPLETION, REMOVE GRAVEL FROM CONTRACTOR PROVIDED ACCESS ROUTE, PLANT FORMER SURVEYOR'S RIDGE TRAIL AND BROADCAST EXCESS SLASH. SLASH LAYER SHALL BE EVEN AND A THICKNESS OF 6" MINIMUM AND 18" MAXIMUM. SEE GENERAL SITE NOTE 20 ON DRAWING 01-G-0010.
2. FOR TRENCH CUTOFF WALL, SEE DETAIL 1 / 05-C-1501.

PLAN

SCALE: 1"=50'

SURFACE RESTORATION: TYPE D 3123-115D, TRENCH BACKFILL: TYPE A 3123-110A, OFFROAD BENCHING 6 / 05-C-1503



PROFILE

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'

REGISTERED PROFESSIONAL ENGINEER — Digital Signature — OREGON — JULY 8, 2016 — JOHN BALDWIN MATTHEW
EXP. 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	REVISION
		A SITTEL	C ECKBERG	M BALDWIN	APVD	B FULLER	

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City Of The Dalles
The Dalles, OR

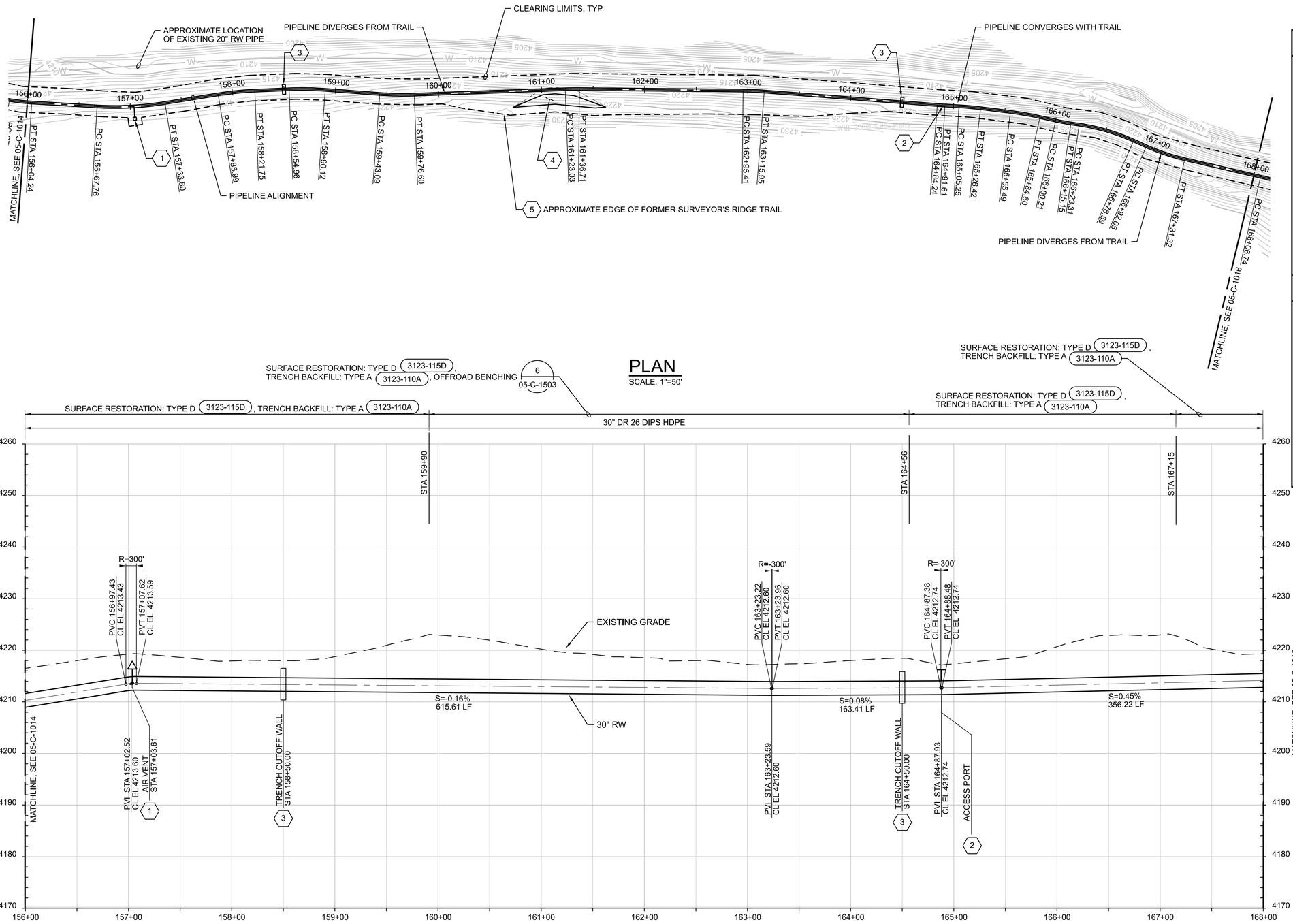
Jacobs

CIVIL
PIPELINE
PLAN AND PROFILE 14

ISSUED FOR CONSTRUCTION

CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1014
SHEET	54 of 76

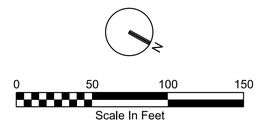


PLAN

SCALE: 1"=50'

PROFILE

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'



GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. FOR SURFACE RESTORATION AND TRENCH BACKFILL TYPES, SEE 99-C-0001.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
4. CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES SHOWN ON EROSION CONTROL DRAWINGS, THESE ARE THE MINIMUM REQUIRED.
5. FOR PIPELINE HORIZONTAL ALIGNMENT CONTROL, SEE DRAWINGS 05-C-1100 THROUGH 05-C-1102.
6. FOR TEST PIT COORDINATES, SEE DRAWING 05-C-0100.

SHEET KEYNOTES

1. FOR AIR VENT, SEE DETAIL 3 / 05-C-1501, UNLESS OTHERWISE NOTED.
2. FOR ACCESS PORT, SEE DETAIL 2 / 05-C-1503.
3. FOR TRENCH CUTOFF WALL, SEE DETAIL 1 / 05-C-1501.
4. TURNOUT, SEE DETAIL 1 / 05-C-1502 SIM.
5. UPON PIPELINE CONSTRUCTION COMPLETION, PLANT FORMER SURVEYOR'S RIDGE TRAIL AND BROADCAST EXCESS SLASH. SLASH LAYER SHALL BE EVEN AND A THICKNESS OF 6" MINIMUM AND 18" MAXIMUM. SITE NOTE 20 ON DRAWING 01-G-0010.

REGISTERED PROFESSIONAL ENGINEER — Digital Signature — OREGON — JULY 8, 2014 — MATTHEW JOHN BALDWIN — 60202PE

EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	REVISION
		A SITTEL	C ECKBERG	M BALDWIN	B FULLER		

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Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

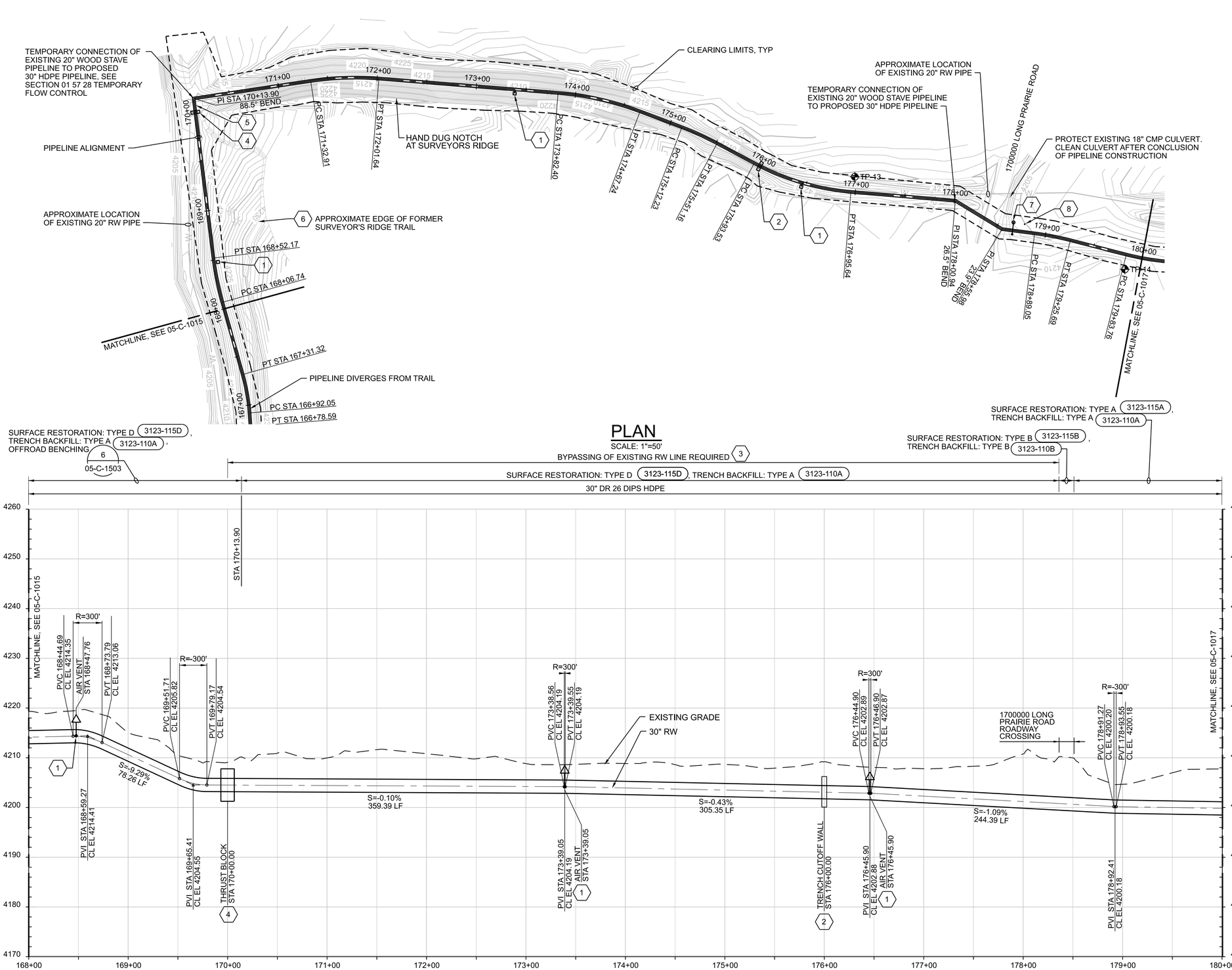
Jacobs

CIVIL
PIPELINE
PLAN AND PROFILE 15

ISSUED FOR CONSTRUCTION

CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING, IF NOT 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1015
SHEET	55 of 76



PLAN

SCALE: 1"=50'

PROFILE

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. FOR SURFACE RESTORATION AND TRENCH BACKFILL TYPES, SEE 99-C-0001.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
4. CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES SHOWN ON EROSION CONTROL DRAWINGS, THESE ARE THE MINIMUM REQUIRED.
5. FOR PIPELINE HORIZONTAL ALIGNMENT CONTROL, SEE DRAWINGS 05-C-1100 THROUGH 05-C-1102.
6. FOR TEST PIT COORDINATES, SEE DRAWING 05-C-0100.

SHEET KEYNOTES

1. FOR AIR VENT, SEE DETAIL 3 / 05-C-1501, UNLESS OTHERWISE NOTED.
2. FOR TRENCH CUTOFF WALL, SEE DETAIL 1 / 05-C-1501.
3. APPROXIMATE LOCATION AND LENGTH OF BYPASSING SHOWN ON PLANS, CONTRACTOR TO VERIFY BASED ON FIELD CONDITIONS. SEE SECTION 01 57 28 TEMPORARY FLOW CONTROL.
4. THRUST BLOCK, SEE DETAIL 4 / 05-C-1503.
5. BACKFILL PIPE AND LEAVE ONLY 10-FEET EXPOSED FOR REQUIRED CONNECTION TO HDPE BEND. AFTER PIPE IS THERMALLY STABLE, ONLY THEN MAKE THE CONNECTION TO THE HDPE BEND.
6. UPON PIPELINE CONSTRUCTION COMPLETION, PLANT FORMER SURVEYOR'S RIDGE TRAIL AND BROADCAST EXCESS SLASH. SLASH LAYER SHALL BE EVEN AND A THICKNESS OF 6" MINIMUM AND 18" MAXIMUM. SEE GENERAL SITE NOTE 20 ON DRAWING 01-G-0010.
7. REMOVE AND REPLACE EXISTING GATE WITH SINGLE ARM GATE WITH SLIDE TELESCOPE, SEE DETAIL 1 / 05-C-1504 COORDINATE LAYOUT AND LOCATION WITH ENGINEER.
8. GATE TIE-DOWN POST LOCATION, SEE DETAIL 1 / 05-C-1504.

REGISTERED PROFESSIONAL ENGINEER 60202PE OREGON JULY 28, 2006 MATTHEW JOHN BALDWIN
Digital Signature
EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	REVISION	BY	APVD
		A SITTEL	C ECKBERG	M BALDWIN			B FULLER	

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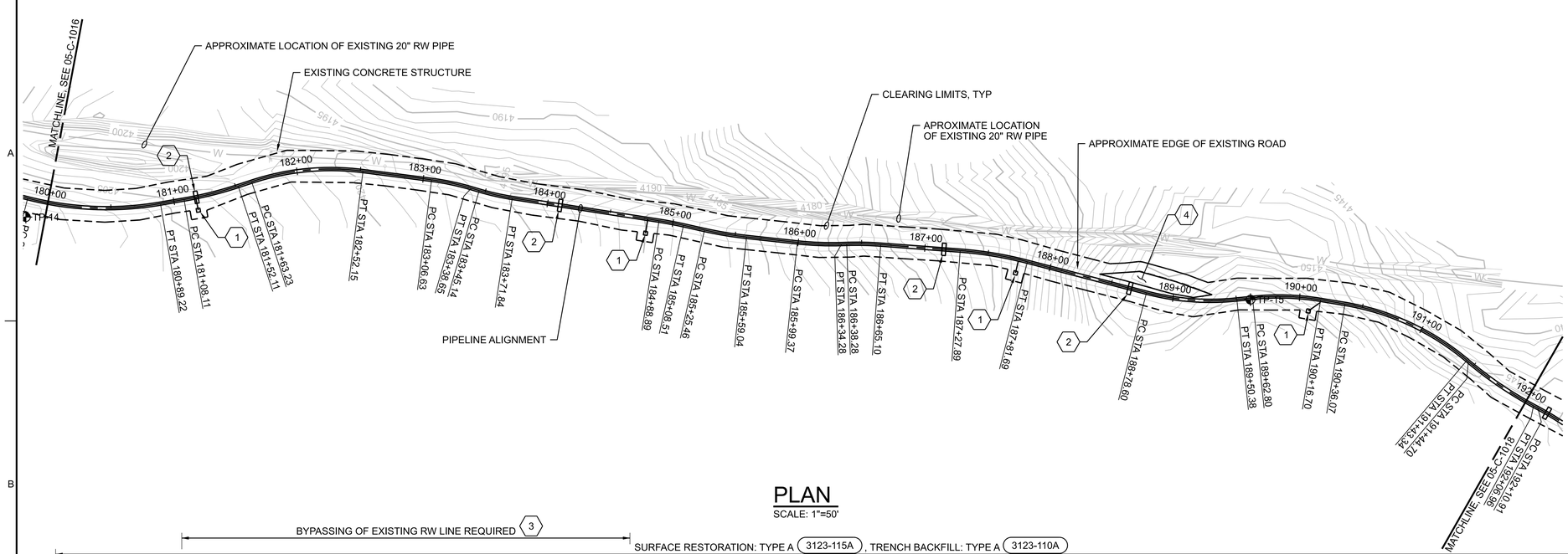
Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

Jacobs

CIVIL
PIPELINE
PLAN AND PROFILE 16

ISSUED FOR CONSTRUCTION

CONTRACT NO.:	2022-001
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1016
SHEET	56 of 76

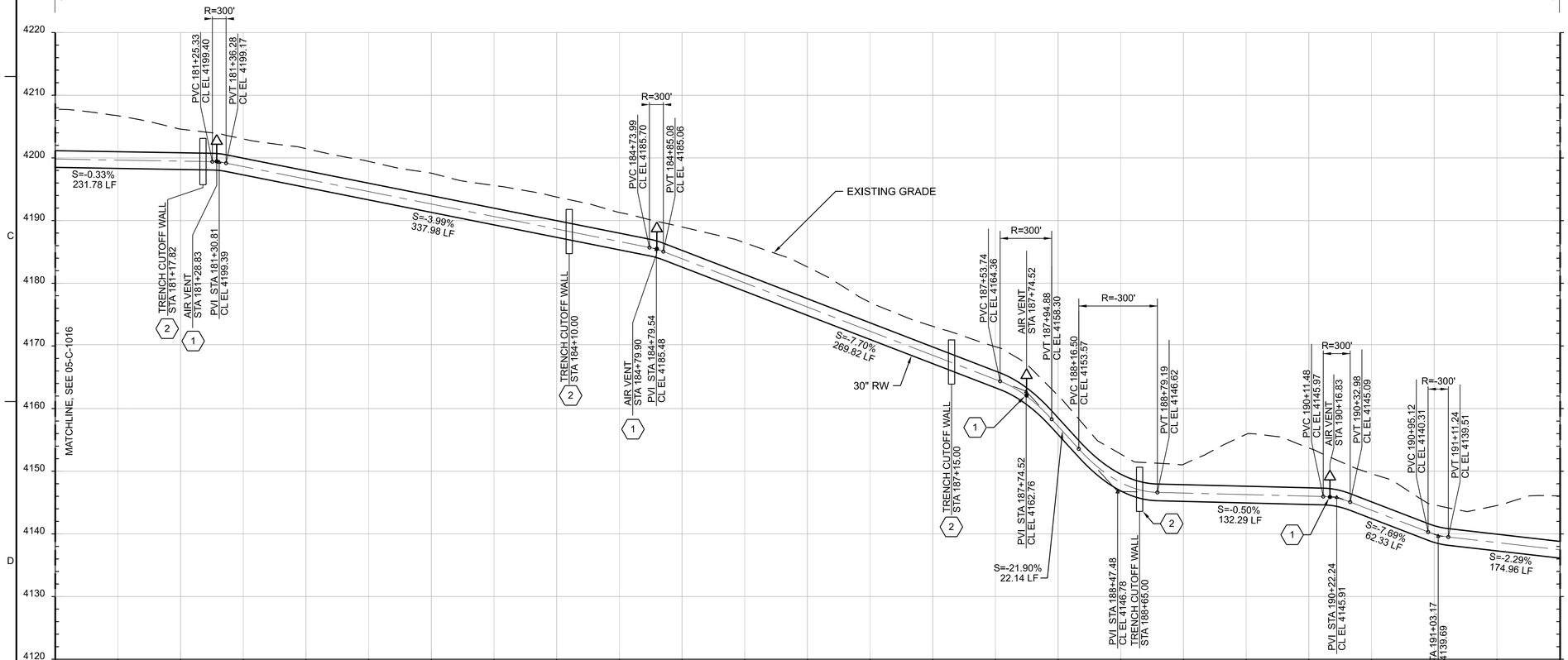


PLAN
SCALE: 1"=50'

BYPASSING OF EXISTING RW LINE REQUIRED (3)

SURFACE RESTORATION: TYPE A (3123-115A), TRENCH BACKFILL: TYPE A (3123-110A)

30" DR 26 DIPS HDPE



PROFILE
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'

N

0 50 100 150
Scale In Feet

GENERAL NOTES:

1. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
2. FOR SURFACE RESTORATION AND TRENCH BACKFILL TYPES, SEE 99-C-0001.
3. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
4. CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES SHOWN ON EROSION CONTROL DRAWINGS, THESE ARE THE MINIMUM REQUIRED.
5. FOR PIPELINE HORIZONTAL ALIGNMENT CONTROL, SEE DRAWINGS 05-C-1100 THROUGH 05-C-1102.
6. FOR TEST PIT COORDINATES, SEE DRAWING 05-C-0100.

SHEET KEYNOTES

1. FOR AIR VENT, SEE DETAIL (3 / 05-C-1501), UNLESS OTHERWISE NOTED.
2. FOR TRENCH CUTOFF WALL, SEE DETAIL (1 / 05-C-1501).
3. APPROXIMATE LOCATION AND LENGTH OF BYPASSING SHOWN ON PLANS, CONTRACTOR TO VERIFY BASED ON FIELD CONDITIONS.
4. TURNOUT, SEE DETAIL (1 / 05-C-1502) SIM.

REGISTERED PROFESSIONAL ENGINEER — 60202PE — OREGON — JULY 8, 2008 — JOHN BALDWIN MATTHEW
Digital Signature
EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	REVISION
		A SITTEL	C ECKBERG	M BALDWIN	B FULLER		

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REUSE OF DOCUMENTS:

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City Of The Dalles
The Dalles, OR

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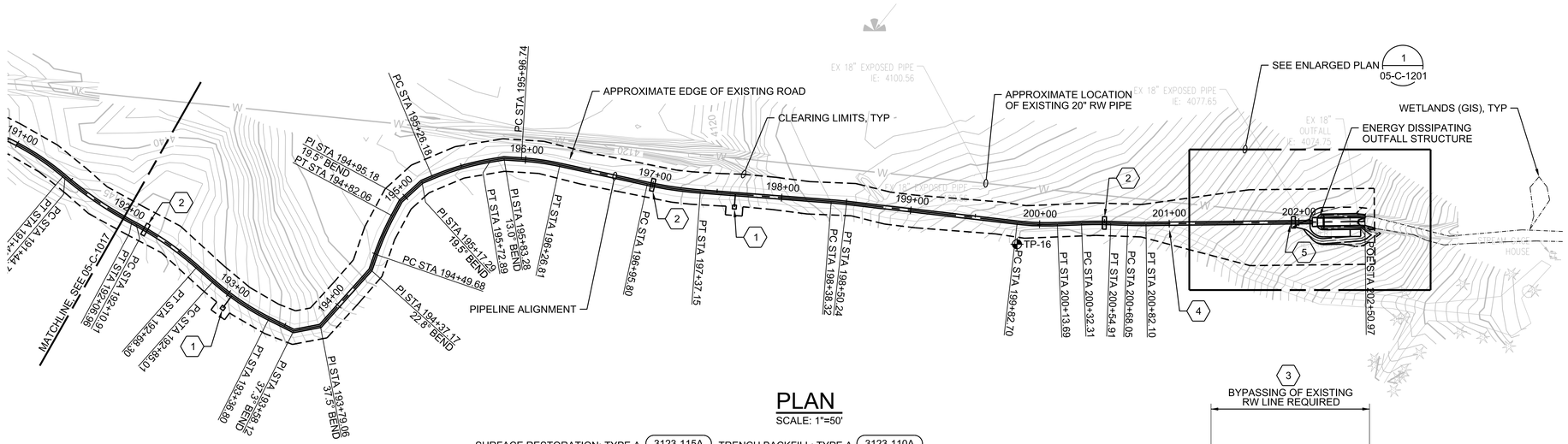
CIVIL
PIPELINE
PLAN AND PROFILE 17

ISSUED FOR CONSTRUCTION

CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1017
SHEET	57 of 76


PC STA 191+44.47
PT STA 191+86.96
PC STA 192+10.91
PT STA 192+68.30
PC STA 192+89.01
PT STA 193+36.80
PT STA 193+59.17
37.5° BEND
PI STA 193+79.06
PI STA 194+37.17
22.8° BEND
PC STA 194+49.68
PI STA 194+95.18
19.5° BEND
PT STA 194+82.06
PC STA 195+26.18
PC STA 195+86.74
PI STA 195+17.29
19.5° BEND
PT STA 195+72.89
PI STA 195+83.28
13.0° BEND
PT STA 196+29.81
PC STA 196+95.80
PT STA 197+37.15
PC STA 198+38.32
PT STA 198+50.24
PC STA 199+82.70
TP-16
PT STA 200+13.69
PC STA 200+32.31
PT STA 200+54.91
PC STA 200+68.05
PT STA 200+82.10
PC STA 201+50.97
PT STA 202+50.97
MATCHLINE SEE 05-C-1017
APPROXIMATE EDGE OF EXISTING ROAD
CLEARING LIMITS, TYP
APPROXIMATE LOCATION OF EXISTING 20" RW PIPE
PIPELINE ALIGNMENT
SEE ENLARGED PLAN 1 05-C-1201
WETLANDS (GIS), TYP
ENERGY DISSIPATING OUTFALL STRUCTURE
EX 18" EXPOSED PIPE IE: 4100.56
EX 18" EXPOSED PIPE IE: 4077.65
EX 18" OUTFALL IE: 4077.13
EX 15" CONCRETE PIPE
EX 4" WATER
EX 4" GAS
EX 8" SEWER
EX 12" WATER
EX 6" WATER
EX 4" GAS
EX 4120 CONTOUR
EX 4140 CONTOUR
EX 4160 CONTOUR
EX 4180 CONTOUR
EX 4200 CONTOUR
EX 4220 CONTOUR
EX 4240 CONTOUR
EX 4260 CONTOUR
EX 4280 CONTOUR
EX 4300 CONTOUR
EX 4320 CONTOUR
EX 4340 CONTOUR
EX 4360 CONTOUR
EX

STATION		NORTHING	EASTING	FITTING	RADIUS	LENGTH	TANGENT	DELTA
POB	0+00.00	331551.17	129108.66					
PC	0+27.89	331571.64	129089.73					
PI	0+76.68	331607.47	129056.60		220.00	96.03	48.79	25°00'33"
PT	1+23.92	331653.94	129041.72					
PC	1+24.84	331654.82	129041.44					
PI	1+56.59	331685.06	129031.76		240.00	63.14	31.75	15°04'23"
PT	1+87.98	331711.74	129014.55					
PC	2+24.50	331742.43	128994.75					
PI	2+27.32	331744.80	128993.22		300.00	5.64	2.82	1°04'38"
PT	2+30.14	331747.14	128991.65					
PC	2+73.70	331783.30	128967.35					
PI	2+82.70	331790.76	128962.34		300.00	17.98	8.99	3°25'59"
PT	2+91.68	331797.91	128956.89					
PC	3+41.08	331837.19	128926.93					
PI	3+46.55	331841.53	128923.61		300.00	10.94	5.47	2°05'21"
PT	3+52.02	331846.00	128920.45					
PC	3+71.68	331862.06	128909.11					
PI	3+80.37	331869.16	128904.09		300.00	17.39	8.70	3°19'13"
PT	3+89.06	331876.54	128899.49					
PC	4+56.17	331933.50	128864.00					
PI	4+68.46	331943.93	128857.51		300.00	24.55	12.28	4°41'22"
PT	4+80.73	331954.85	128851.88					
PC	5+07.12	331978.31	128839.81					
PI	5+09.71	331980.61	128838.62		300.00	5.18	2.59	0°59'19"
PT	5+12.29	331982.89	128837.40					
PC	5+57.70	332022.90	128815.92					
PI	5+81.82	332044.15	128804.52		250.00	48.10	24.12	11°01'23"
PT	6+05.80	332062.84	128789.25					
PC	6+07.07	332063.83	128788.45					
PI	6+22.84	332076.04	128778.47		250.00	31.49	15.77	7°13'03"
PT	6+38.57	332089.40	128770.11					
PC	6+57.31	332105.30	128760.16					
PI	6+64.19	332111.13	128756.52		300.00	13.76	6.88	2°37'37"
PT	6+71.07	332116.79	128752.60					
PC	7+88.08	332213.04	128686.06					
PI	8+03.89	332226.04	128677.07		300.00	31.60	15.81	6°02'06"
PT	8+19.68	332238.03	128666.76					
PC	9+03.98	332301.95	128611.80					
PI	9+07.85	332304.89	128609.28		300.00	7.74	3.87	1°28'42"
PT	9+11.72	332307.88	128606.83					
PC	9+80.05	332360.82	128563.63					
PI	9+89.00	332367.76	128557.97		300.00	17.91	8.96	3°25'11"
PT	9+97.95	332374.35	128551.90					
PC	10+32.89	332400.05	128528.24					
PI	10+39.10	332404.62	128524.04		300.00	12.41	6.21	2°22'15"
PT	10+45.30	332409.36	128520.02					
PC	10+88.13	332442.04	128492.35					
PI	11+05.68	332455.43	128481.00		300.00	35.06	17.55	6°41'48"
PT	11+23.19	332470.06	128471.30					
PC	11+72.43	332511.08	128444.07					
PI	11+79.52	332516.99	128440.15		300.00	14.18	7.09	2°42'27"
PT	11+86.61	332522.71	128435.96					
PC	12+37.03	332563.36	128406.13					
PI	12+46.52	332571.01	128400.51		300.00	18.97	9.49	3°37'21"
PT	12+56.00	332579.00	128395.39					
PC	13+13.73	332627.61	128364.25					
PI	13+22.34	332634.86	128359.60		300.00	17.22	8.61	3°17'18"
PT	13+30.95	332641.83	128354.55					
PC	13+96.43	332694.85	128316.11					
PI	14+13.45	332708.62	128306.13		300.00	33.99	17.01	6°29'31"
PT	14+30.42	332721.18	128294.65					
PC	14+68.87	332749.55	128268.71					
PI	14+80.97	332758.49	128260.54		300.00	24.19	12.10	4°37'13"
PT	14+93.06	332766.73	128251.68					
PC	17+06.54	332912.18	128095.43					
PI	17+33.85	332930.79	128075.43		300.00	54.48	27.31	10°24'18"
PT	17+61.02	332945.49	128052.41					
PC	18+06.70	332970.06	128013.90					
PI	18+29.90	332982.54	127994.34		300.00	46.31	23.20	8°50'39"
PT	18+53.01	332997.88	127976.93					
PC	18+84.28	333018.55	127953.47					
PI	18+96.05	333026.34	127944.64		300.00	23.54	11.78	4°29'44"
PT	19+07.82	333034.79	127936.44					
PC	20+21.56	333116.46	127857.26					
PI	20+61.86	333145.39	127829.21		300.00	80.11	40.30	15°18'02"
PT	21+01.68	333165.89	127794.52					
PC	23+09.10	333271.42	127615.95					
PI	23+95.17	333315.21	127541.85		250.00	165.79	86.07	37°59'46"
PT	24+74.89	333395.34	127510.41					

STATION		NORTHING	EASTING	FITTING	RADIUS	LENGTH	TANGENT	DELTA
PI	25+22.81	333439.95	127492.91	33.5°				
PI	26+39.21	333506.70	127397.56	46.4°				
PC	28+04.37	333670.03	127372.95					
PI	28+56.85	333721.92	127365.13		300.00	103.91	52.48	19°50'44"
PT	29+08.28	333768.08	127340.15					
PC	30+13.66	333860.76	127290.01					
PI	30+64.72	333905.67	127265.71		200.00	100.00	51.07	28°38'48"
PT	31+13.65	333933.44	127222.85					
PI	31+77.98	333968.42	127168.86	11.3°				
PI	32+03.14	333977.68	127145.47	21.0°				
PI	32+34.89	333978.01	127113.73	27.7°				
PI	32+50.16	333971.04	127100.14	31.9°				
PC	33+06.24	333922.98	127071.26					
PI	33+51.93	333883.81	127047.72		200.00	89.85	45.70	25°44'29"
PT	33+96.09	333838.30	127043.53					
PI	34+71.39	333763.32	127036.62	4.5°				
PI	35+01.30	333733.85	127031.53	22.8°				
PI	35+39.07	333702.04	127011.15	18.4°				
PI	35+62.50	333687.33	126992.93	21.6°				
PC	36+21.83	333669.68	126936.28					
PI	36+53.19	333660.35	126906.34		250.00	62.39	31.36	14°17'59"
PT	36+84.22	333643.92	126879.63					
PC	36+95.85	333637.83	126869.73					
PI	37+13.08	333628.80	126855.05		200.00	34.38	17.23	9°50'53"
PT	37+30.22	333622.41	126839.05					
PC	37+32.67	333621.51	126836.78					
PI	37+67.94	333608.43	126804.02		200.00	69.83	35.27	20°00'14"
PT	38+02.49	333584.94	126777.71					
PC	38+04.10	333583.87	126776.51					
PI	38+26.00	333569.29	126760.18		200.00	43.62	21.90	12°29'45"
PT	38+47.72	333558.58	126741.07					
PC	39+39.84	333513.55	126660.71					
PI	39+52.02	333507.60	126650.09		300.00	24.33	12.17	4°38'50"
PT	39+64.18	333502.53	126639.02					
PC	39+73.09	333498.82	126630.91					
PI	40+09.97	333483.46	126597.39		300.00	73.38	36.87	14°00'53"
PT	40+46.47	333476.67	126561.14					
PC	40+78.03	333470.87	126530.13					
PI	41+00.76	333466.69	126507.79		300.00	45.37	22.73	8°39'54"
PT	41+23.40	333465.92	126485.07					
PC	41+57.36	333464.77	126451.13					
PI	41+97.42	333463.42	126411.10		300.00	79.64	40.05	15°12'34"
PT	42+37.00	333472.62	126372.11					
PC	42+65.78	333479.22	126344.10					
PI	42+83.99	333483.41	126326.38		300.00	36.38	18.21	6°56'51"
PT	43+02.16	333485.41	126308.28					
PC	43+29.78	333488.46	126280.82					
PI	43+38.41	333489.41	126272.25		300.00	17.25	8.63	3°17'38"
PT	43+47.03	333489.86	126263.63					
PC	44+42.80	333494.93	126168.00					
PI	44+61.59	333495.92	126149.23		300.00	37.54	18.79	7°10'10"
PT	44+80.33	333499.25	126130.74					
PC	46+04.70	333521.28	126008.34					
PI	46+31.78	333526.08	125981.68		300.00	54.02	27.08	10°19'02"
PT	46+58.72	333535.57	125956.32					
PC	46+69.73	333539.43	125946.01					
PI	47+10.67	333553.78	125907.66		300.00	81.38	40.94	15°32'34"
PT	47+51.11	333557.33	125866.88					
PC	47+55.27	333557.69	125862.73					
PI	48+13.04	333562.70	125805.18		300.00	114.14	57.77	21°47'56"
PT	48+69.41	333545.98	125749.88					
PC	49+97.57	333508.89	125627.21					
PI	50+29.53	333499.64	125596.61		300.00	63.69	31.97	12°09'51"
PT	50+61.26	333484.15	125568.65					
PC	52+70.43	333382.78	125385.68					
PI	53+11.64	333362.81	125349.64		300.00	81.90	41.21	15°38'29"
PT	53+52.33	333353.30	125309.55					
PC	55+19.22	333314.78	125147.16					
PI	55+50.85	333307.48	125116.39		300.00	63.02	31.63	12°02'11"
PT	55+82.24	333293.92	125087.81					
PC	58+28.76	333188.25	124865.09					
PI	58+68.41	333171.25	124829.27		200.00	78.28	39.65	22°25'28"
PT	59+07.04	333169.21	124789.68					
PC	60+11.54	333163.82	124685.32					
PI	60+43.48	333162.17	124653.43		300.00	63.63	31.94	12°09'10"
PT	60+75.17	333167.27	124621.90					
PC	61+08.33	333172.57	124589.16					
PI	61+24.77	333175.20	124572.94		300.00	32.85	16.44	6°16'24"
PT	61+41.18	333176.03	124556.52					

STATION		NORTHING	EASTING	FITTING	RADIUS	LENGTH	TANGENT	DELTA
PC	61+52.66	333176.62	124545.06					
PI	61+79.01	333177.96	124518.74		300.00	52.57	26.35	10°02'28"
PT	62+05.23	333183.87	124493.05					
PC	63+17.41	333209.04	124383.73					
PI	63+49.49	333216.24	124352.47		300.00	63.92	32.08	12°12'28"
PT	63+81.33	333229.88	124323.43					
PC	64+14.52	333244.00	124293.40					
PI	64+29.79	333250.49	124279.57		200.00	30.49	15.28	8°44'09"
PT	64+45.01	333259.01	124266.89					
PC	64+50.92	333262.31	124261.99					
PI	64+72.56	333274.38	124244.02		200.00	43.13	21.65	12°21'18"
PT	64+94.04	333282.34	124223.89					
PC	64+95.92	333283.03	124222.14					
PI	65+25.04	333293.72	124195.06		300.00	58.06	29.12	11°05'16"
PT	65+53.98	333299.01	124166.43					
PC	66+02.37	333307.80	124118.84					
PI	66+22.90	333311.53	124098.65		300.00	40.99	20.53	7°49'45"
PT	66+43.36	333317.97	124079.16					
PC	66+78.75	333329.08	124045.56					
PI	67+15.09	333340.48	124011.06		200.00	71.89	36.34	20°35'44"
PT	67+50.64	333363.30	123982.77					
PC	67+55.83	333366.56	123978.73					
PI	67+75.21	333378.72	123963.65		200.00	38.64	19.38	11°04'10"
PT	67+94.47	333387.77	123946.51					
PC	69+05.03	333439.36	123848.73					
PI	69+61.53	333465.73	123798.76		300.00	111.70	56.50	21°19'57"
PT	70+16.72	333472.11	123742.62					
PC	73+67.85	333511.78	123393.74					
PI	73+85.85	333513.81	123375.85		300.00	35.97	18.01	6°52'11"
PT	74+03.82	333513.69	123357.84					
PC	75+91.02	333512.44	123170.65					
PI	76+74.50	333511.88	123087.17		200.00	158.17	83.48	45°18'42"
PT	77+49.19	333570.83	123028.06					
PC	78+18.27	333619.62	122979.16					
PI	78+64.01	333651.92	122946.77		300.00	90.78	45.74	17°20'18"
PT	79+09.05	333692.41	122925.48					
PC	83+58.05	334089.83	122716.54					
PI	84+00.28	334127.21	122696.89		300.00	83.91	42.23	16°01'33"
PT	84+41.96	334168.56	122688.32					
PC	85+72.22	334296.11	122661.89					
PI	86+10.41	334333.51	122654.14		300.00	75.97	38.19	14°30'32"
PT	86+48.19	334371.65	122656.01					
PC	87+27.13	334450.49	122659.86					
PI	87+62.18	334485.51	122661.58		300.00	69.79	35.06	13°19'47"
PT	87+96.92	334519.18	122671.32					
PC	88+86.49	334605.22	122696.20					
PI	89+07.57	334625.48	122702.06		300.00	42.09	21.08	8°02'21"
PT	89+28.58	334644.71	122710.69					
PC	89+99.85	334709.73	122739.87					
PI	90+25.95	334733.54	122750.56		300.00	52.07	26.10	9°56'41"
PT	90+51.92	334758.84	122756.97					
PC	91+85.24	334888.07	122789.73					
PI	92+15.87	334917.77	122797.26		300.00	61.05	30.63	11°39'36"
PT	92+46.30	334945.33	122810.63					
PC	92+77.82	334973.69	122824.40					
PI	92+99.37	334993.07	122833.80		300.00	43.02	21.55	8°12'58"
PT	93+20.84	335013.60	122840.34					
PC	94+03.76	335092.61	122865.51					
PI	94+28.29	335115.98	122872.96		300.00	48.94	24.53	9°20'50"
PT	94+52.70	335137.83	122884.10					
PC	94+73.05	335155.96	122893.34					
PI	94+90.62	335171.61	122901.32		300.00	35.10	17.57	6°42'16"
PT	95+08.15	335188.09	122907.42					
PC	96+43.60	335315.11	122954.44					
PI	96+44.10	335315.59	122954.61		300.00	1.00	0.50	0°11'31"
PT	96+44.61	335316.06	122954.78					
PC	97+25.01	335391.55	122982.44					
PI	97+36.35	335402.21	122986.35		300.00	22.69	11.35	4°19'58"
PT	97+47.69	335413.13	122989.43					
PC	98+82.96	335543.29	123026.23					
PI	98+83.55	335543.87	123026.40		300.00	1.19	0.60	0°13'39"
PT	98+84.15	335544.44	123026.56					
PC	100+29.07	335683.73	123066.54					
PI	100+51.76	335705.54	123072.80		300.00	45.29	22.69	8°38'58"
PT	100+74.36	335726.16	123082.27					
PC	100+96.10	335745.92	123091.34					
PI	101+15.48	335763.53	123099.43		300.00	38.70	19.38	7°23'26"
PT	101+34.80	335779.95	123109.71					
PC	101+62.68	335803.58	123124.51					

REGISTERED PROFESSIONAL ENGINEER 60202PE OREGON JULY 8, 2005 MATTHEW JOHN BALDWIN
Digital Signature
EXP: 12/31/2023

NO.	DATE	DSGN	DR	CHK	APVD
		A SITTEL	B GYAOUROVA	M BALDWIN	B FULLER

REVISION BY

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CIVIL

Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

PIPELINE
HORIZONTAL ALIGNMENT CONTROL
STA 0+00.00 TO STA 101+62.68

CONTRACT NO.: 2022-001

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1100
SHEET	59 of 76

STATION	NORTHING	EASTING	FITTING	RADIUS	LENGTH	TANGENT	DELTA
PI 101+91.32	335827.85	123139.71		200.00	56.90	28.64	16°18'04"
PT 102+19.58	335855.42	123147.49					
PI 102+43.07	335878.03	123153.86	14.8°				
PI 102+59.97	335894.92	123154.16	11.3°				
PI 102+76.06	335910.75	123151.27	8.3°				
PC 103+03.54	335936.79	123142.49					
PI 103+51.78	335982.51	123127.08		200.00	94.67	48.24	27°07'15"
PT 103+98.21	336030.22	123134.21					
PC 104+29.04	336060.71	123138.76					
PI 104+48.59	336080.04	123141.65		250.00	39.01	19.54	8°56'24"
PT 104+68.05	336098.69	123147.50					
PC 104+70.10	336100.64	123148.11					
PI 104+93.03	336122.52	123154.98		300.00	45.77	22.93	8°44'28"
PT 105+15.87	336145.18	123158.45					
PC 105+28.83	336158.00	123160.41					
PI 105+41.80	336170.81	123162.37		300.00	25.91	12.97	4°56'58"
PT 105+54.75	336183.75	123163.21					
PC 105+73.83	336202.80	123164.46					
PI 105+87.84	336216.78	123165.37		300.00	28.01	14.01	5°20'55"
PT 106+01.84	336230.79	123164.98					
PC 106+04.60	336233.55	123164.90					
PI 106+19.99	336248.93	123164.47		300.00	30.75	15.39	5°52'23"
PT 106+35.35	336264.28	123165.62					
PC 106+59.54	336288.40	123167.42					
PI 106+62.06	336290.91	123167.60		300.00	5.03	2.52	0°57'41"
PT 106+64.58	336293.43	123167.75					
PC 106+82.16	336310.97	123168.76					
PI 106+96.02	336324.82	123169.56		300.00	27.71	13.87	5°17'32"
PT 107+09.87	336338.67	123169.08					
PC 107+10.33	336339.14	123169.06					
PI 107+34.97	336363.76	123168.21		200.00	49.03	24.64	14°02'43"
PT 107+59.36	336387.85	123173.36					
PC 107+67.05	336395.37	123174.96					
PI 107+80.65	336408.68	123177.80		240.00	27.17	13.60	6°29'13"
PT 107+94.22	336422.21	123179.12					
PC 108+07.83	336435.76	123180.45					
PI 108+29.56	336457.38	123182.55		300.00	43.37	21.72	8°17'02"
PT 108+51.21	336478.48	123187.76					
PC 108+56.56	336483.68	123189.04					
PI 108+69.45	336496.19	123192.12		300.00	25.76	12.89	4°55'08"
PT 108+82.32	336508.39	123196.27					
PC 108+92.93	336518.43	123199.68					
PI 109+02.31	336527.32	123202.71		300.00	18.76	9.39	3°35'02"
PT 109+11.69	336536.00	123206.28					
PC 109+22.71	336546.18	123210.46					
PI 109+30.87	336553.73	123213.57		300.00	16.32	8.16	3°06'59"
PT 109+39.02	336561.10	123217.08					
PC 110+03.14	336618.98	123244.65					
PI 110+18.56	336632.90	123251.29		300.00	30.81	15.42	5°53'03"
PT 110+33.95	336647.42	123256.46					
PC 110+37.67	336650.93	123257.70					
PI 110+73.53	336684.71	123269.72		300.00	71.38	35.86	13°37'57"
PT 111+09.05	336714.71	123289.37					
PC 111+97.56	336788.75	123337.86					
PI 112+09.75	336798.96	123344.55		300.00	24.38	12.20	4°39'23"
PT 112+21.94	336808.58	123352.04					
PC 112+22.38	336808.93	123352.31					
PI 112+47.13	336828.47	123367.51		300.00	49.40	24.76	9°26'06"
PT 112+71.78	336850.24	123379.30					
PC 112+91.89	336867.92	123388.87					
PI 113+01.33	336876.23	123393.37		300.00	18.89	9.45	3°36'27"
PT 113+10.77	336884.24	123398.39					
PC 113+79.13	336942.17	123434.66					
PI 113+84.99	336947.14	123437.77		300.00	11.71	5.86	2°14'11"
PT 113+90.84	336951.97	123441.07					
PC 114+09.28	336967.21	123451.46					
PI 114+18.45	336974.78	123456.62		300.00	18.33	9.17	3°29'59"
PT 114+27.61	336982.03	123462.24					
PC 114+50.82	337000.37	123476.46					
PI 114+59.68	337007.37	123481.89		300.00	17.71	8.86	3°23'00"
PT 114+68.53	337014.04	123487.72					
PC 114+87.23	337028.12	123500.03					
PI 114+98.55	337036.64	123507.48		300.00	22.64	11.33	4°19'27"
PT 115+09.87	337044.58	123515.56					
PC 115+19.50	337051.33	123522.43					
PI 115+36.07	337062.95	123534.25		300.00	33.11	16.57	6°19'22"
PT 115+52.60	337075.79	123544.71					
PC 115+69.89	337089.19	123555.63					
PI 115+80.20	337097.19	123562.14		300.00	20.62	10.31	3°56'18"

STATION	NORTHING	EASTING	FITTING	RADIUS	LENGTH	TANGENT	DELTA
PT 115+90.51	337104.72	123569.19					
PC 115+96.75	337109.27	123573.46					
PI 116+05.10	337115.36	123579.16		300.00	16.69	8.35	3°11'15"
PT 116+13.44	337121.77	123584.52					
PC 116+24.99	337130.62	123591.93					
PI 116+40.36	337142.42	123601.80		300.00	30.73	15.38	5°52'10"
PT 116+55.72	337153.14	123612.82					
PC 118+00.53	337254.11	123716.62					
PI 118+06.88	337258.54	123721.17		300.00	12.70	6.35	2°25'29"
PT 118+13.22	337263.15	123725.53					
PC 119+42.30	337356.99	123814.17					
PI 119+47.65	337360.88	123817.84		300.00	10.71	5.35	2°02'41"
PT 119+53.01	337364.90	123821.38					
PC 119+66.05	337374.70	123829.99					
PI 119+84.32	337388.42	123842.05		300.00	36.49	18.27	6°58'06"
PT 120+02.54	337400.57	123855.69					
PC 120+16.86	337410.10	123866.38					
PI 120+24.37	337415.10	123871.99		300.00	15.03	7.52	2°52'16"
PT 120+31.89	337420.38	123877.35					
PC 120+53.52	337435.56	123892.75					
PI 120+59.57	337439.81	123897.06		300.00	12.10	6.05	2°18'38"
PT 120+65.62	337444.22	123901.20					
PC 120+70.74	337447.96	123904.69					
PI 120+92.36	337463.74	123919.47		200.00	43.08	21.62	12°20'28"
PT 121+13.81	337476.01	123937.28					
PC 121+39.68	337490.68	123958.59					
PI 121+43.71	337492.96	123961.90		300.00	8.05	4.02	1°32'11"
PT 121+47.73	337495.15	123965.27					
PC 121+99.76	337523.50	124008.91					
PI 122+41.32	337546.14	124043.76		250.00	82.37	41.56	18°52'39"
PT 122+82.13	337578.85	124069.41					
PC 122+85.94	337581.84	124071.75					
PI 123+21.66	337609.95	124093.80		250.00	70.96	35.72	16°15'49"
PT 123+56.90	337630.76	124122.84					
PC 123+69.25	337637.95	124132.87					
PI 123+88.83	337649.36	124148.79		300.00	39.12	19.59	7°28'14"
PT 124+08.36	337658.60	124166.06					
PC 124+11.36	337660.02	124168.71					
PI 124+42.09	337674.51	124195.80		300.00	61.24	30.73	11°41'45"
PT 124+72.60	337694.20	124219.38					
PC 124+90.39	337705.60	124233.04					
PI 125+03.15	337713.78	124242.83		300.00	25.49	12.75	4°52'09"
PT 125+15.89	337721.09	124253.28					
PC 125+23.65	337725.54	124259.64					
PI 125+46.74	337738.78	124278.56		300.00	46.09	23.09	8°48'06"
PT 125+69.74	337748.97	124299.28					
PC 125+80.77	337753.84	124309.19					
PI 126+01.17	337762.83	124327.48		200.00	40.64	20.39	11°38'35"
PT 126+21.42	337775.34	124343.59					
PC 126+21.82	337775.59	124343.91					
PI 126+37.33	337785.10	124356.16		200.00	30.96	15.51	8°52'15"
PT 126+52.78	337792.61	124369.74					
PC 127+14.72	337822.59	124423.93					
PI 127+29.87	337829.93	124437.19		300.00	30.28	15.16	5°47'02"
PT 127+45.00	337838.57	124449.64					
PC 127+75.21	337855.78	124474.46					
PI 127+86.91	337862.45	124484.08		300.00	23.40	11.71	4°28'09"
PT 127+98.61	337869.85	124493.16					
PC 128+30.60	337890.07	124517.94					
PI 128+56.73	337906.59	124538.19		300.00	52.14	26.14	9°57'28"
PT 128+82.73	337919.36	124561.00					
PC 128+83.38	337919.67	124561.56					
PI 129+16.85	337936.03	124590.77		300.00	66.67	33.47	12°43'58"
PT 129+50.05	337945.55	124622.86					
PC 129+61.64	337948.84	124633.97					
PI 129+73.00	337952.07	124644.86		300.00	22.71	11.36	4°20'15"
PT 129+84.35	337956.11	124655.48					
PC 130+24.58	337970.44	124693.07					
PI 130+50.81	337979.77	124717.58		300.00	52.33	26.23	9°59'38"
PT 130+76.91	337984.72	124743.34					
PC 131+78.92	338003.94	124843.53					
PI 132+06.93	338009.21	124871.03		300.00	55.85	28.01	10°39'59"
PT 132+34.77	338009.31	124899.04					
PC 132+94.61	338009.51	124958.88					
PI 132+98.16	338009.52	124962.43		300.00	7.10	3.55	1°21'20"
PT 133+01.71	338009.62	124965.97					
PC 133+31.23	338010.42	124995.48					
PI 133+44.48	338010.78	125008.73		300.00	26.49	13.25	5°03'33"
PT 133+57.72	338012.30	125021.90					

STATION	NORTHING	EASTING	FITTING	RADIUS	LENGTH	TANGENT	DELTA
PC 133+94.44	338016.53	125058.38					
PI 134+24.08	338019.94	125087.82		300.00	59.09	29.64	11°17'08"
PT 134+53.53	338017.52	125117.36					
PC 134+78.43	338015.49	125142.18					
PI 135+18.49	338012.22	125182.10		300.00	79.65	40.06	15°12'44"
PT 135+58.08	338019.55	125221.49					
PC 135+91.39	338025.64	125254.25					
PI 136+18.97	338030.68	125281.35		220.00	54.86	27.57	14°17'15"
PT 136+46.25	338028.88	125308.87					
PC 136+52.05	338028.50	125314.65					
PI 136+89.75	338026.03	125352.27		220.00	74.68	37.70	19°27'00"
PT 137+26.73	338036.23	125388.57					
PI 138+32.46	338064.84	125490.36	38.9°				
PC 138+55.27	338083.43	125503.57					
PI 138+97.26	338117.66	125527.89		200.00	82.77	41.98	23°42'38"
PT 139+38.04	338139.21	125563.92					
PC 140+35.82	338189.41	125647.83					
PI 140+66.45	338205.14	125674.12		300.00	61.05	30.63	11°39'34"
PT 140+96.87	338215.23	125703.04					
PC 141+46.08	338231.44	125749.50					
PI 141+91.70	338246.46	125792.57		250.00	90.25	45.62	20°41'03"
PT 142+36.33	338275.74	125827.57					
PC 142+97.94	338315.27	125874.82					
PI 143+27.83	338334.45	125897.74		300.00	59.57	29.88	11°22'37"
PT 143+57.51	338357.77	125916.43					
PC 144+06.11	338395.69	125946.82					
PI 144+44.48	338425.63	125970.81		250.00	76.15	38.37	17°27'06"
PT 144+82.26	338447.00	126002.68					
PC 144+99.90	338456.83	126017.34					
PI 145+39.07	338478.64	126049.88		200.00	77.36	39.17	22°09'42"
PT 145+77.26	338486.57	126088.23					
PI 145+92.73	338489.70	126103.38	15.9°				
PC 146+31.42	338507.59	126137.69					
PI 146+48.46	338515.47	126152.80		300.00	34.05	17.04	6°30'12"
PT 146+65.47	338525.01	126166.92					
PC 147+15.25	338552.88	126208.17					
PI 147+54.07	338574.61	126240.34		300.00	77.21	38.82	14°44'48"
PT 147+92.46	338603.82	126265.91					
PC 148+87.89	338675.61	126328.78					
PI 149+37.45	338712.90	126361.43		200.00	97.18	49.57	27°50'19"
PT 149+85.06	338761.12	126372.90					
PI 150+16.84	338792.04	126380.24	25.9°				
PI 150+54.12	338828.43	126372.15	17.0°				
PC 150+70.43	338842.62	126364.13					
PI 150+83.57	338854.07	126357.65		200.00	26.25	13.15	7°31'17"
PT 150+96.68	338866.26	126352.74					
PC 150+97.72	338867.22	126352.35					
PI 151+13.77	338882.10	126346.35		200.00	32.03	16.05	9°10'36"
PT 151+29.75	338895.84	126338.04					
PC 151+42.24	338906.53	126331.58					
PI 151+49.18	338912.47	126327.99		300.00	13.89	6.95	2°39'09"
PT 151+56.13	338918.24	126324.13					
PC 151+68.59	338928.60	126317.20					
PI 152+19.42	338970.84	126288.92		300.00	100.72	50.84	19°14'08"
PT 152+69.30	339020.05	126276.14					
PC 153+71.32	339118.79	126250.48					
PI 153+89.16	339136.06	126246.00		300.00	35.65	17.84	6°48'29"
PT 154+06.97	339152.68	126239.49					
PC 154+24.17	339168.69	126233.23					
PI 154+34.55	339178.36	126229.44		300.00	20.76	10.38	3°57'55"
PT 154+44.93	339187.75	126225.00					
PC 154+61.00	339202.27	126218.12					
PI 154+81.86	339221.13	126209.19		200.00	41.58	20.86	11°54'41"
PT 155+02.58	339237.74	126196.57					
PC 155+08.71	339242.62	126192.85					
PI 155+40.62	339268.02	126173.54		200.00	63.28	31.91	18°07'46"
PT 155+71.99	339298.17	126163.09					
PC 155+82.55	339308.15	126159.63					
PI 155+93.41	339318.40	126156.08		200.00	21.69	10.86	6°12'54"
PT 156+04.24	339328.22	126151.43					
PC 156+67.76	339385.63	126124.25					
PI 157+00.91	339415.59	126110.07		300.00	66.04	33.15	12°36'45"
PT 157+33.80	339441.74	126089.68					
PC 157+85.99	339482.90	126057.59					
PI 158+03.89	339497.01	126046.58		300.00	35.75	17.90	6°49'42"
PT 158+21.75	339512.33	126037.33					
PC 158+54.96	339540.76	126020.17					
PI 158+72.56	339555.83	126011.07		300.00	35.17	17.60	6°42'59"
PT 158+90.12	339571.87	126003.80					

REGISTERED PROFESSIONAL ENGINEER 60202PE OREGON JULY 8, 2008 MATTHEW JOHN BALDWIN
Digital Signature
EXP: 12/31/2023

NO.	DATE	DSGN	DR	CHK	APVD

STATION		NORTHING	EASTING	FITTING	RADIUS	LENGTH	TANGENT	DELTA
PC	159+43.09	339620.10	125981.92					
PI	159+59.86	339635.38	125974.99		300.00	33.51	16.77	6°23'57"
PT	159+76.60	339649.78	125966.40					
PC	161+23.03	339775.56	125891.43					
PI	161+29.87	339781.43	125887.92		300.00	13.68	6.84	2°36'45"
PT	161+36.71	339787.46	125884.69					
PC	162+95.41	339927.34	125809.73					
PI	163+05.68	339936.40	125804.88		300.00	20.54	10.28	3°55'25"
PT	163+15.95	339945.77	125800.65					
PC	164+84.24	340099.20	125731.50					
PI	164+87.93	340102.56	125729.98		300.00	7.37	3.68	1°24'25"
PT	164+91.61	340105.88	125728.39					
PC	165+05.25	340118.17	125722.48					
PI	165+15.84	340127.71	125717.89		300.00	21.17	10.59	4°02'35"
PT	165+26.42	340137.56	125713.99					
PC	165+55.49	340164.58	125703.27					
PI	165+70.06	340178.12	125697.91		300.00	29.11	14.57	5°33'36"
PT	165+84.60	340192.12	125693.87					
PC	166+00.21	340207.12	125689.55					
PI	166+07.68	340214.30	125687.48		200.00	14.93	7.47	4°16'41"
PT	166+15.15	340221.30	125684.89					
PC	166+23.31	340228.96	125682.05					
PI	166+51.13	340255.04	125672.38		200.00	55.28	27.82	15°50'09"
PT	166+78.59	340282.77	125670.19					
PC	166+92.05	340296.19	125669.13					
PI	167+11.75	340315.83	125667.58		200.00	39.27	19.70	11°15'03"
PT	167+31.32	340334.79	125662.23					
PC	168+06.74	340407.37	125641.75					
PI	168+29.50	340429.27	125635.57		300.00	45.43	22.76	8°40'34"
PT	168+52.17	340451.85	125632.76					
PI	170+13.90	340612.35	125612.81	88.5°				
PC	171+32.91	340630.09	125730.50					
PI	171+67.43	340635.23	125764.63		300.00	68.73	34.52	13°07'37"
PT	172+01.64	340632.49	125799.04					
PC	173+82.40	340618.13	125979.22					
PI	174+25.10	340614.74	126021.79		300.00	84.84	42.70	16°12'09"
PT	174+67.24	340599.60	126061.72					
PC	175+12.23	340583.66	126103.79					
PI	175+31.72	340576.74	126122.02		300.00	38.94	19.50	7°26'12"
PT	175+51.16	340567.53	126139.20					
PC	175+93.53	340547.52	126176.54					
PI	176+45.31	340523.05	126222.18		250.00	102.11	51.78	23°24'09"
PT	176+95.64	340518.73	126273.78					
PI	178+00.94	340509.93	126378.71	26.5°				
PI	178+55.98	340481.36	126425.75	23.9°				
PC	178+89.05	340477.12	126458.55					
PI	179+07.39	340474.76	126476.74		300.00	36.63	18.34	6°59'48"
PT	179+25.69	340470.21	126494.50					
PC	179+83.76	340455.79	126550.76					
PI	180+37.28	340442.50	126602.61		250.00	105.46	53.53	24°10'12"
PT	180+89.22	340451.61	126655.35					
PC	181+08.11	340454.82	126673.97					
PI	181+30.15	340458.57	126695.69		300.00	44.00	22.04	8°24'14"
PT	181+52.11	340465.46	126716.63					
PC	181+63.23	340468.93	126727.19					
PI	182+08.44	340483.05	126770.13		200.00	88.91	45.20	25°28'16"
PT	182+52.15	340477.33	126814.97					
PC	183+06.63	340470.43	126869.02					
PI	183+22.67	340468.40	126884.93		200.00	32.02	16.04	9°10'21"
PT	183+38.65	340463.86	126900.32					
PC	183+45.14	340462.02	126906.54					
PI	183+58.51	340458.24	126919.37		200.00	26.71	13.37	7°39'04"
PT	183+71.84	340456.19	126932.59					
PC	184+88.89	340438.30	127048.26					
PI	184+98.70	340436.80	127057.95		300.00	19.61	9.81	3°44'45"
PT	185+08.51	340434.67	127067.53					
PC	185+25.46	340430.99	127084.08					
PI	185+42.27	340427.34	127100.49		300.00	33.58	16.81	6°24'45"
PT	185+59.04	340425.55	127117.20					
PC	185+99.37	340421.24	127157.30					
PI	186+16.85	340419.38	127174.68		250.00	34.90	17.48	7°59'58"
PT	186+34.28	340419.95	127192.15					
PC	186+38.28	340420.08	127196.16					
PI	186+51.70	340420.52	127209.57		250.00	26.81	13.42	6°08'42"
PT	186+65.10	340419.52	127222.95					
PC	187+27.89	340414.84	127285.57					
PI	187+54.86	340412.83	127312.47		300.00	53.80	26.97	10°16'33"
PT	187+81.69	340406.05	127338.58					
PC	188+78.60	340381.71	127432.38					

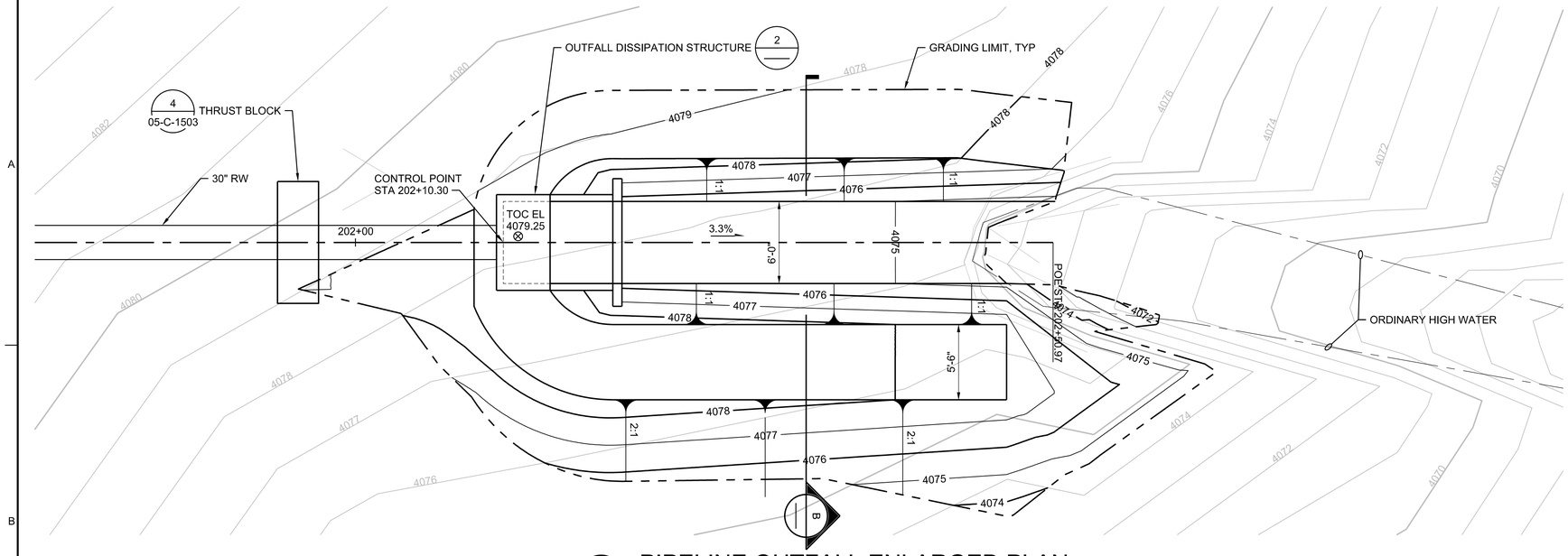
STATION		NORTHING	EASTING	FITTING	RADIUS	LENGTH	TANGENT	DELTA
PI	189+14.88	340372.60	127467.50		200.00	71.78	36.28	20°33'49"
PT	189+50.38	340376.40	127503.58					
PC	189+62.80	340377.70	127515.92					
PI	189+89.91	340380.54	127542.89		200.00	53.91	27.12	15°26'34"
PT	190+16.70	340376.10	127569.64					
PC	190+36.07	340372.93	127588.75					
PI	190+91.03	340363.93	127642.97		200.00	107.27	54.96	30°43'47"
PT	191+43.34	340328.49	127684.97					
PC	191+44.70	340327.61	127686.01					
PI	191+75.94	340307.46	127709.88		300.00	62.26	31.24	11°53'27"
PT	192+06.96	340292.67	127737.40					
PC	192+10.91	340290.80	127740.88					
PI	192+39.73	340277.15	127766.27		250.00	57.39	28.82	13°09'09"
PT	192+68.30	340258.08	127787.88					
PC	192+85.01	340247.03	127800.41					
PI	193+11.05	340229.80	127819.94		200.00	51.79	26.04	14°50'13"
PT	193+36.80	340218.15	127843.22					
PI	193+58.12	340208.61	127862.29	37.3°				
PI	193+79.06	340212.50	127882.87	37.5°				
PI	194+37.17	340255.81	127921.62	22.8				
PC	194+49.68	340267.64	127925.68					
PI	194+65.90	340282.98	127930.96		200.00	32.38	16.23	9°16'34"
PT	194+82.06	340297.27	127938.64					
PI	194+95.18	340308.83	127944.86	19.5°				
PI	195+17.29	340323.70	127961.22	19.5°				
PC	195+26.18	340327.15	127969.41					
PI	195+49.64	340336.24	127991.04		200.00	46.71	23.46	13°22'54"
PT	195+72.89	340340.09	128014.19					
PI	195+83.28	340341.79	128024.43	13.0°				
PC	195+96.74	340340.94	128037.87					
PI	196+11.80	340339.99	128052.90		200.00	30.07	15.06	8°36'49"
PT	196+26.81	340336.80	128067.62					
PC	196+95.80	340322.19	128135.05					
PI	197+16.51	340317.80	128155.29		300.00	41.35	20.71	7°53'52"
PT	197+37.15	340316.24	128175.94					
PC	198+38.32	340308.60	128276.81					
PI	198+44.28	340308.15	128282.76		300.00	11.92	5.96	2°16'35"
PT	198+50.24	340307.46	128288.68					
PC	199+82.70	340292.22	128420.26					
PI	199+98.23	340290.44	128435.69		200.00	30.99	15.53	8°52'40"
PT	200+13.69	340291.05	128451.20					
PC	200+32.31	340291.79	128469.81					
PI	200+43.62	340292.24	128481.10		300.00	22.59	11.3	4°18'53"
PT	200+54.91	340291.84	128492.39					
PC	200+68.05	340291.37	128505.53					
PI	200+75.08	340291.12	128512.55		300.00	14.04	7.02	2°40'55"
PT	200+82.10	340291.19	128519.57					
POE	202+50.97	340293.08	128688.44					

PUMP OUT BLOWOFF COORDINATE TABLE

SADDLE LOCATION		BLOWOFF VAULT				
STATION	OFFSET	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
26+28.37	0.00	26+28.37	-19.51	333484.51	127395.25	VAULT CENTER
26+35.70	0.00	26+35.70	-8.84	333497.46	127395.36	VAULT CENTER
31+05.07	0.00	31+04.85	-9.00	333921.16	127224.91	VAULT CENTER
31+18.62	0.00	31+15.97	-8.86	333927.26	127216.09	VAULT CENTER

REGISTERED PROFESSIONAL ENGINEER 60202PE OREGON JULY 8, 2008 MATTHEW JOHN BALDWIN
Digital Signature
EXP: 12/31/2023

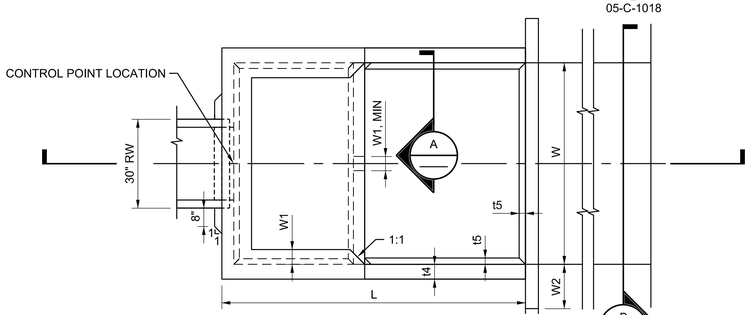
NO.	DATE	DSGN	DR	CHK	APVD



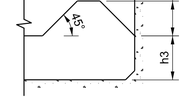
1 PIPELINE OUTFALL ENLARGED PLAN

1"=5'-0"

05-C-1018

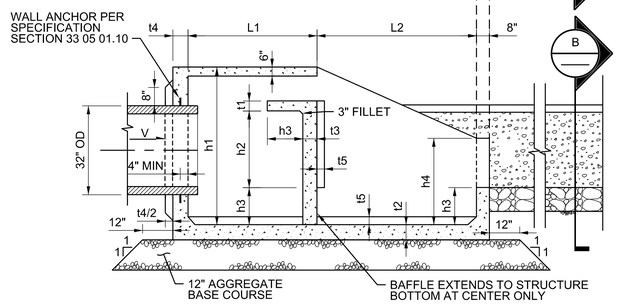


PLAN



A SECTION

NTS



SECTION

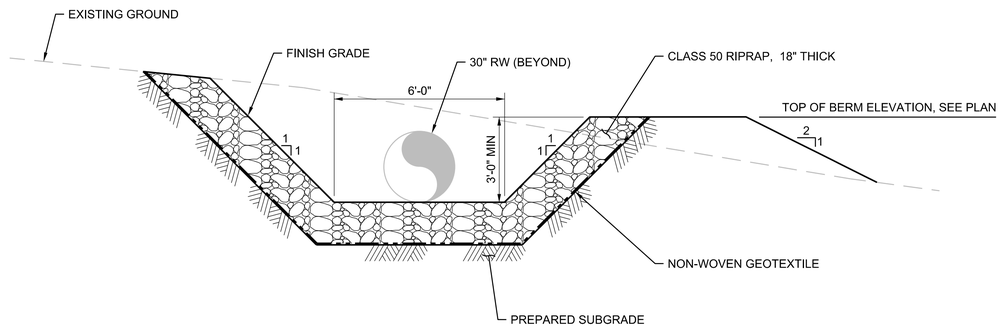
DIMENSION TABLE														
W	W1	W2	L	L1	L2	h1	h2	h3	h4	t1	t2	t3	t4	t5
6'-0"	0'-6"	1'-8"	8'-0"	3'-5"	4'-7"	4'-7"	2'-3"	1'-0"	2'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-3"

NOTES:

1. SEE SPECIFICATION 03 30 10, STRUCTURAL CONCRETE FOR CONCRETE AND REINFORCING REQUIREMENTS.
2. REINFORCE 6" WALLS WITH #4@12" OC EW. 8" WALLS WITH #4@6" OC EW. CENTER REINFORCING IN THE WALLS. LAP REINFORCING, WHERE REQUIRED, WITH MINIMUM 1'8" LAP. PROVIDE ACI COMPLIANT HOOK FOR ALL REINFORCING AT PERPENDICULAR WALLS AND SLAB JOINTS.
3. COMPLY WITH AMERICAN IRON AND STEEL (AIS) CONTRACT REQUIREMENTS.

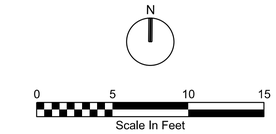
2 UNITED STATES BUREAU OF RECLAMATION OUTFALL DISSIPATION STRUCTURE

NTS



B OUTFALL DISSIPATION TYPICAL SECTION

3/8"=1'-0"



GENERAL NOTES

1. REMOVE, PROTECT, MAINTAIN, AND REPLANT 10 RIPARIAN VEGETATION CLUMPS WITHIN GRADING LIMITS. SEE SECTION 31 10 00 SITE CLEARING.

REGISTERED PROFESSIONAL ENGINEER
60202PE
OREGON
JULY 8, 2014
JOHN BALDWIN
MATTHEW
Digital Signature
EXP: 12/31/2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	REVISION
		A SITTEL	B GYAOUROVA	M BALDWIN	APVD	B FULLER	

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ISSUED FOR CONSTRUCTION

Jacobs

Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

CIVIL
PIPELINE
ENLARGED PLAN

CONTRACT NO.: 2022-001

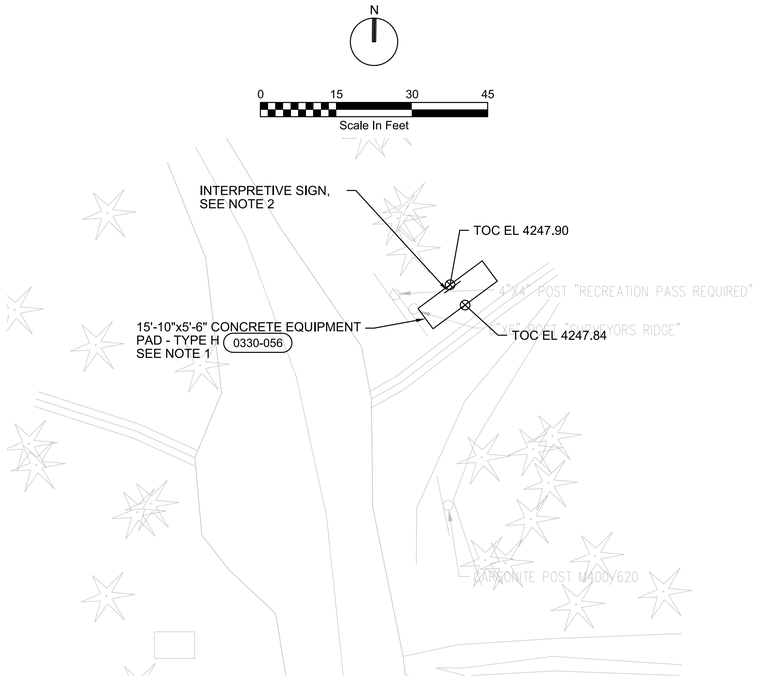
VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1201
SHEET	62 of 76

GENERAL NOTES:

1. SHOP DRAWINGS AND PRODUCT DATA SHALL BE SUBMITTED FOR ALL WOOD PRODUCTS SIGNS.



NOTE:

1. COORDINATE LAYOUT AND ELEVATION WITH ENGINEER PRIOR TO FORMING.
2. MANUFACTURER: WOOD PRODUCTS SIGNS

   PRODUCT: TWO WATERSHED BULLETIN BOARD PANELS WITH RICHMOND DOUBLE BULLETIN BOARD KIT. WOOD POSTS SHALL BE 6"x6" CCA TREATED ROUGH SAWN WESTERN RED CEDAR WITH OXFORD BROWN STAIN AND BEVELED TOPS.

   HEADER AND FOOTER: HEADER PIECE ON BOTH BULLETIN BOARDS SHALL READ "INFORMATION", FOOTER PIECE ON BOTH BULLETIN BOARDS SHALL READ "MT HOOD NATIONAL FOREST". BOTH HEADER AND FOOTER SHALL BE FOREST SERVICE BROWN LETTERING WITH FOREST SERVICE YELLOW BACKGROUND.

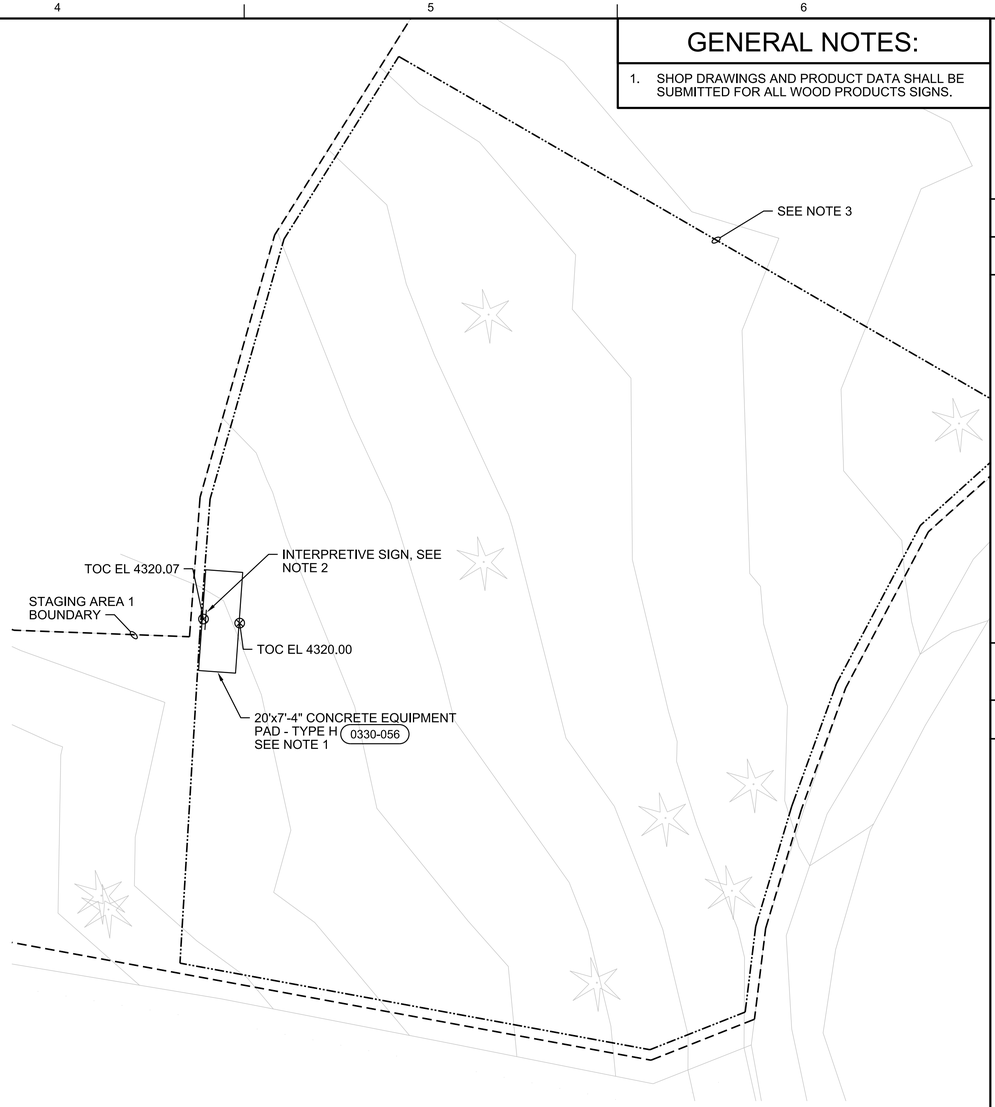
   PLACEMENT: PANELS SHALL BE MOUNTED ON FRAME STARTING AT 36-INCHES FROM GROUND, HEADER SHALL BE FLUSH WITH TOP OF POST. EMBED POSTS 30-INCHES INTO CONCRETE.

   NO EQUALS OR SUBSTITUTIONS ALLOWED.

1 SURVEYOR'S RIDGE TRAIL HEAD ENLARGED PLAN

1"=15'

05-C-0100



NOTES:

1. COORDINATE LAYOUT AND ELEVATION WITH ENGINEER PRIOR TO FORMING.
2. MANUFACTURER: WOOD PRODUCTS SIGNS

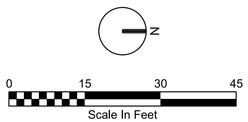
   PRODUCT: THREE WATERSHED BULLETIN BOARD PANELS WITH TRIPLE PANEL KIT. 3 PANEL BULLETIN BOARD SET SHALL BE ANGLED BE PLACED ANGLED PER MANUFACTURERS INSTRUCTIONS.

   HEADER AND FOOTER: HEADER PIECE ON ALL BULLETIN BOARDS SHALL READ "INFORMATION", FOOTER PIECE ON ALL BULLETIN BOARDS SHALL READ "MT HOOD NATIONAL FOREST". HEADER AND FOOTER PIECES SHALL BE FOREST SERVICE BROWN LETTERING WITH FOREST SERVICE YELLOW BACKGROUND.

   PLACEMENT: PANELS SHALL BE MOUNTED ON FRAME STARTING AT 36-INCHES FROM GROUND, HEADER SHALL BE FLUSH WITH TOP OF POST. EMBED POSTS 30-INCHES INTO CONCRETE.

   NO EQUALS OR SUBSTITUTIONS ALLOWED.

3. USFS REQUIRES POST CONSTRUCTION GRADING OF PORTION OF STAGING AREA 1 FOR FUTURE PARKING. CONFIRM REQUIREMENTS WITH ENGINEER. BASIS OF BID SHALL BE TO FINE GRADE 0.5 ACRES OF GRAVELED STAGING AREA AS DIRECTED BY ENGINEER, MINIMUM 6-INCHES THICK, COMPACTED GRANULAR FILL.



2 STAGING AREA 1 ENLARGED PLAN

1"=15'

05-C-0100

REGISTERED PROFESSIONAL ENGINEER — Digital Signature — OREGON — JULY 8, 2014 — JOHN BALDWIN — MATTHEW

EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	REVISION
	A SITTEL	A SITTEL		M BALDWIN	B FULLER		

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REUSE OF DOCUMENTS:

Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

Jacobs

CIVIL
PIPELINE
ENLARGED PLAN

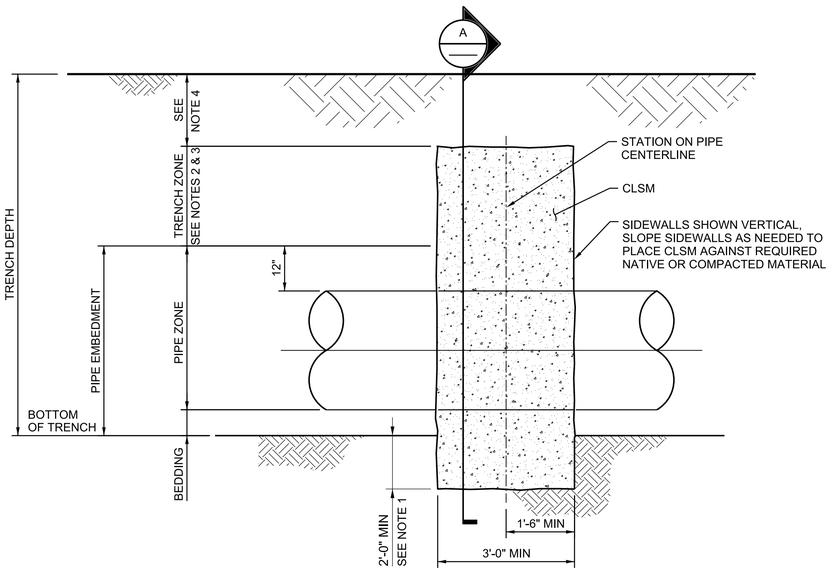
ISSUED FOR CONSTRUCTION

CONTRACT NO.: 2022-001

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1202
SHEET	63 of 76

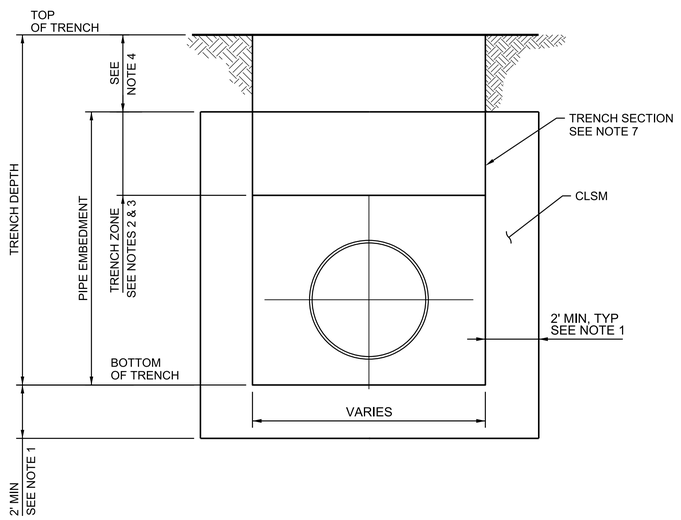


1 TRENCH CUTOFF WALL

NTS

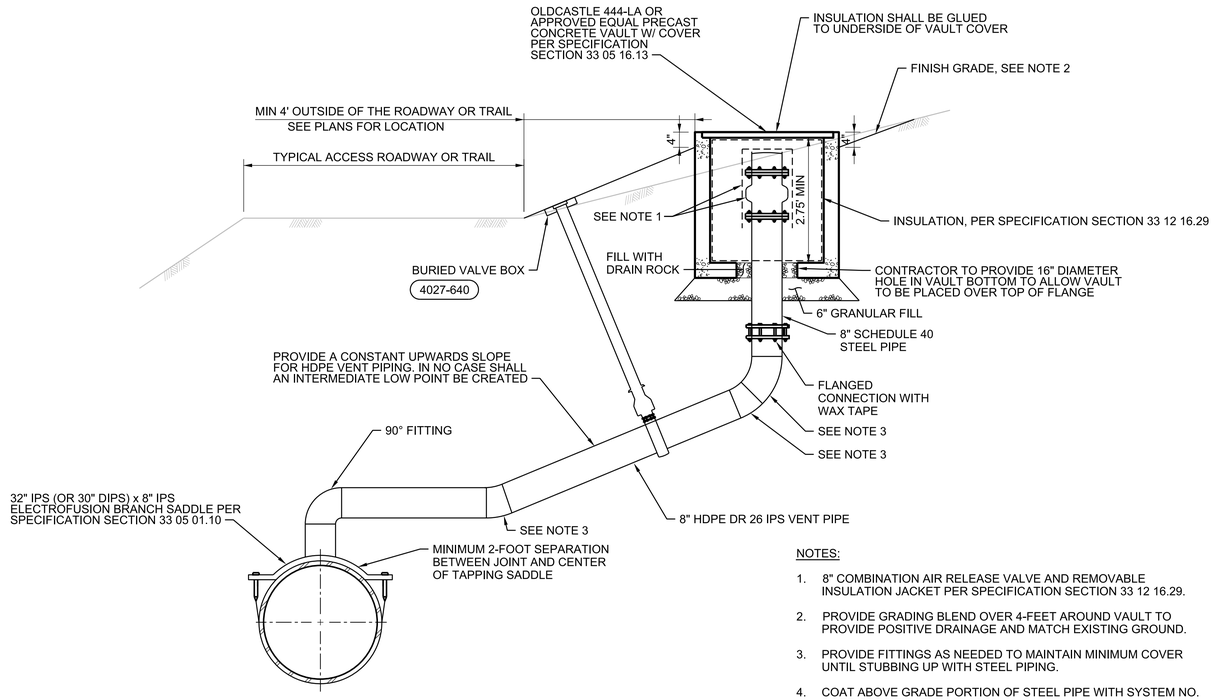
NOTES: 05-C-1001 THRU 05-C-1018

1. KEY TRENCH CUTOFF WALL AT LEAST 2'-0" INTO UNDISTURBED EARTH ON BOTH SIDES AND BOTTOM OF TRENCH, WHERE PIPE SLOPE IS GREATER THAN 5%. CUTOFF WALL KEY IS NOT REQUIRED WHERE PIPE SLOPE IS LESS THAN 5%
2. CLSM TRENCH ZONE MAY BE PLACED AS SEPARATE LIFT, PROVIDING TOP OF PREVIOUSLY POURED LIFT IS CLEAN AND ROUGH.
3. PLACE CLSM AGAINST COMPACTED BACKFILL ABOVE PIPE ZONE WITHIN NORMAL TRENCH.
4. 1'-6" UNLESS NOTED OTHERWISE.
5. AFTER CUTOFF WALL INSTALLATION DO NOT DISTURB SOIL WITHIN 10 FEET OF WALL.
6. REFER TO SPECIFICATION SECTION 31 23 23.15 FOR CLSM MATERIAL SPECIFICATION.
7. VERTICAL TRENCH WALLS ARE SHOWN FOR ILLUSTRATION PURPOSES ONLY, EXCAVATE AS NEEDED FOR CONSTRUCTION AND SLOPE AND/OR PROVIDE ADEQUATE SHORING FOR SAFETY AND CONFORMANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS. DO NOT EXCEED AVAILABLE WORK AREA.



A TRENCH CUTOFF WALL SECTION

NTS



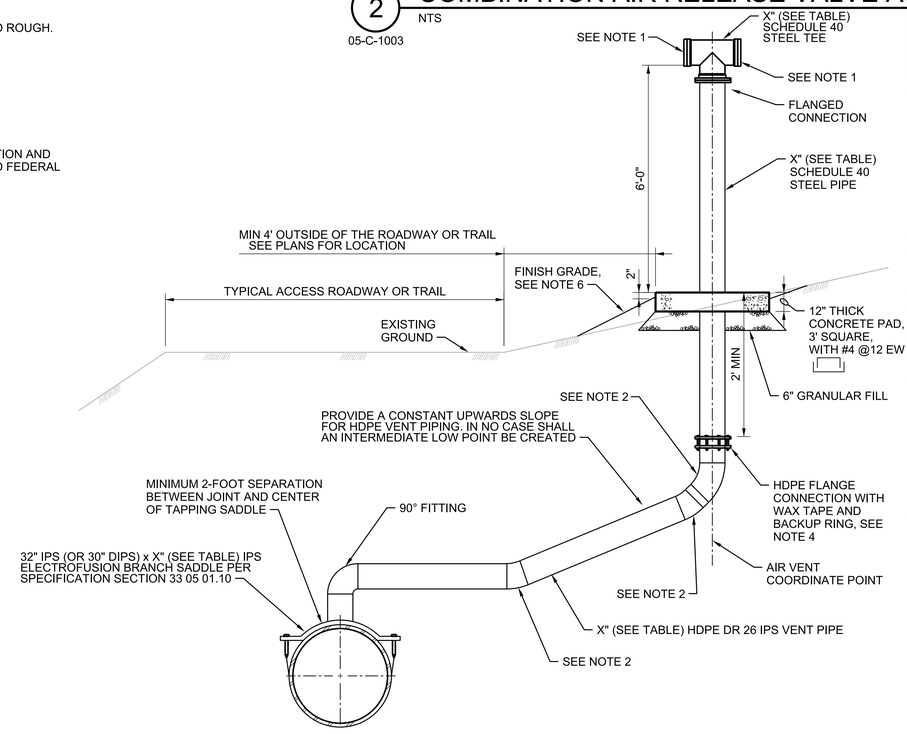
NOTES:

1. 8" COMBINATION AIR RELEASE VALVE AND REMOVABLE INSULATION JACKET PER SPECIFICATION SECTION 33 12 16.29.
2. PROVIDE GRADING BLEND OVER 4-FEET AROUND VAULT TO PROVIDE POSITIVE DRAINAGE AND MATCH EXISTING GROUND.
3. PROVIDE FITTINGS AS NEEDED TO MAINTAIN MINIMUM COVER UNTIL STUBBING UP WITH STEEL PIPING.
4. COAT ABOVE GRADE PORTION OF STEEL PIPE WITH SYSTEM NO. 5 PER SPECIFICATION 09 90 00.

2 COMBINATION AIR RELEASE VALVE ASSEMBLY

NTS

05-C-1003



SADDLE LOCATION		VENT LOCATION		VENT	ELEVATION		
BASELINE STATION	OFFSET	BASELINE STATION	OFFSET	PIPE SIZE (X)	FOR TEE (MIN)	NORTHING	EASTING
0+00.00	0.00	0+00.14	4.00	8"	4273.50	331553.98	129111.50
4+58.72	0.00	4+59.09	10.61	8"	4266.70	331941.50	128871.54
36+58.30	0.00	36+58.32	19.71	8"	4258.70	333674.09	126893.82
47+98.23	0.00	47+98.27	11.20	8"	4255.80	333569.52	125819.14
55+91.49	0.00	55+58.20	24.24	8"	4253.95	333326.01	125101.32
75+39.97	0.00	75+39.97	4.00	8"	4248.00	333516.78	123221.67
80+36.56	0.00	80+36.54	4.00	8"	4246.70	333807.12	122869.70
85+39.75	0.00	85+39.67	3.99	8"	4244.30	334265.05	122672.40
89+77.49	0.00	89+77.49	8.23	8"	4241.10	334685.96	122738.23
101+16.69	0.00	101+16.72	10.13	8"	4235.00	335759.49	123109.48
105+94.69	0.00	105+95.85	10.61	8"	4231.94	336224.88	123175.70
118+51.75	0.00	118+51.74	9.97	8"	4229.70	337284.30	123759.23
126+15.33	0.00	126+14.54	10.66	8"	4227.10	337762.58	124344.33
137+41.47	0.00	137+41.44	10.90	8"	4224.98	338029.72	125405.68
146+30.61	0.00	146+86.68	39.13	8"	4224.92	338504.46	126206.40
157+03.61	0.00	157+03.66	11.93	8"	4222.28	339423.43	126117.09
168+47.76	0.00	168+47.65	4.00	8"	4219.50	340447.93	125637.31
173+39.05	0.00	173+38.99	4.00	8"	4209.26	340617.59	125935.63
176+45.90	0.00	176+45.92	4.00	8"	4208.30	340523.92	126223.84
181+28.83	0.00	181+17.44	10.35	10"	4204.40	340446.41	126685.21
184+79.90	0.00	184+79.91	11.41	10"	4192.92	340428.40	127037.64
187+74.52	0.00	188+74.88	10.82	10"	4152.40	340397.24	127329.15
190+16.83	0.00	190+08.12	10.07	10"	4151.40	340367.33	127559.92
193+03.07	0.00	193+03.08	11.56	10"	4140.00	340226.38	127807.65
197+64.21	0.00	197+64.21	9.98	10"	4117.44	340304.24	128202.16

NOTES:

1. X" (SEE TABLE) BOLTED RING FLANGE WELDED TO TEE WITH INSECT SCREEN. REPLACE WITH BLIND FLANGE FOR HYDROSTATIC TEST.
2. PROVIDE FITTINGS AS NEEDED TO MAINTAIN MINIMUM COVER UNTIL STUBBING UP WITH STEEL PIPING.
3. WAX TAPE BURIED AND ENCASED STEEL PIPE PER AWWA C217.
4. HDPE FLANGE TO CONNECT TO CLASS B, STEEL RING FLANGE.
5. COAT ABOVE GRADE PORTION OF STEEL PIPE WITH SYSTEM NO. 5 PER SPECIFICATION 09 90 00.
6. PROVIDE GRADING BLEND OVER MINIMUM OF 4-FEET AROUND CONCRETE PAD TO PROVIDE POSITIVE DRAINAGE AND MATCH EXISTING GROUND.

3 AIR RELEASE VENT DETAIL

NTS

05-C-1001 THRU 05-C-1018

REGISTERED PROFESSIONAL ENGINEER — 60202PE — OREGON — JULY 8, 2016 — JOHN BALDWIN MATTHEW

Digital Signature

EXP: 12/31/2023

NO.	DATE	DSGN	DR	CHK	APVD	BY
	A SITTEL	B GYAOUROVA	M BALDWIN			B FULLER

REVISION

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Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

Jacobs

CIVIL

PIPELINE DETAILS 1

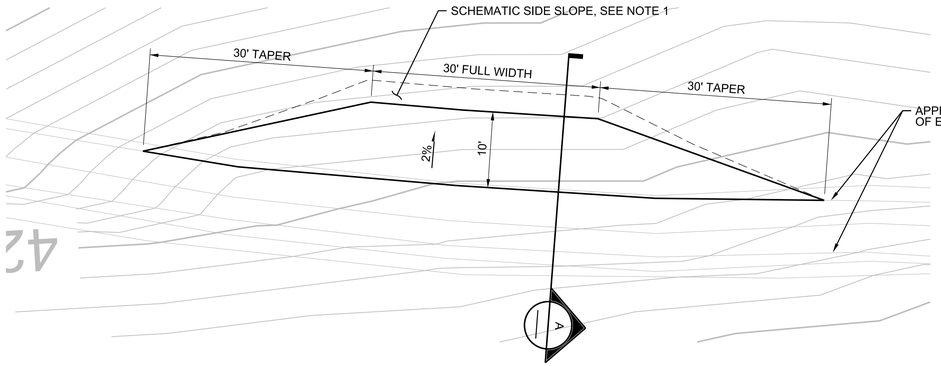
ISSUED FOR CONSTRUCTION

CONTRACT NO.: 2022-001

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

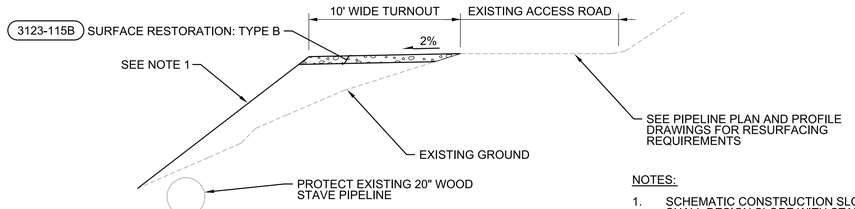
DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1501
SHEET	64 of 76



1 TYPICAL TURNOUT PLAN

1"=10'

05-C-1002, 05-C-1005, 05-C-1006
05-C-1010, 05-C-1011, 05-C-1012
05-C-1015, 05-C-1017

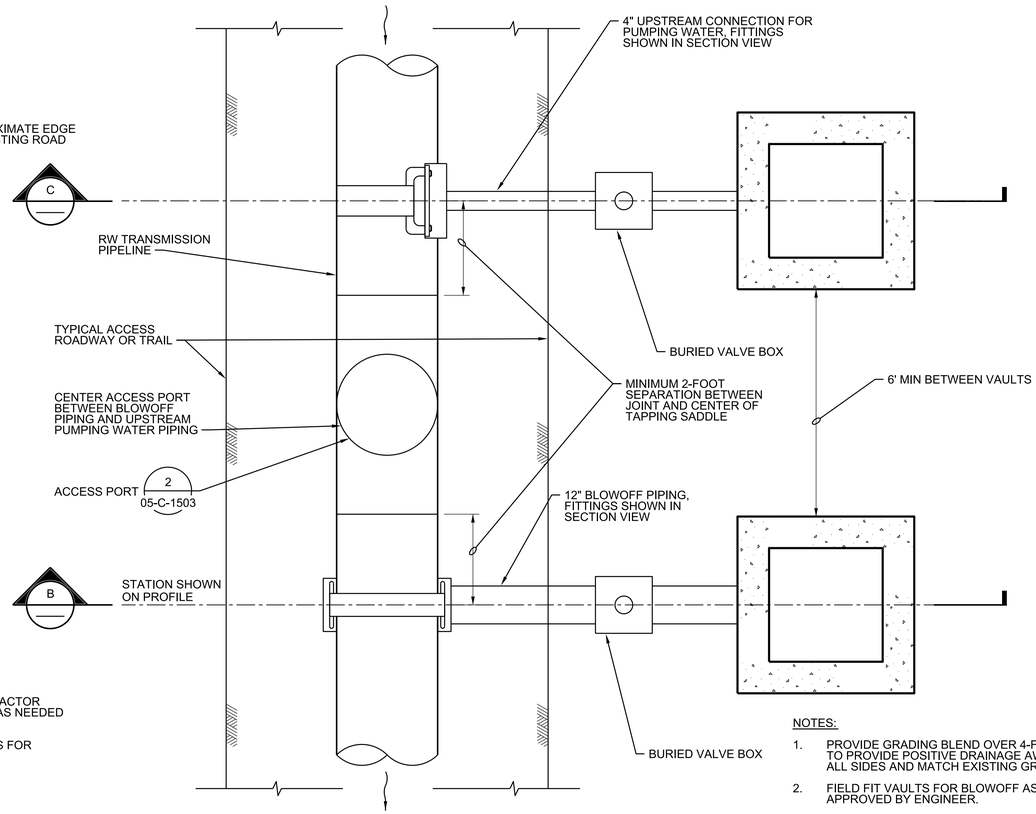


A TYPICAL TURNOUT SECTION

1"=5'

NOTES:

1. SCHEMATIC CONSTRUCTION SLOPE. CONTRACTOR SHALL DESIGN SLOPE WITH STABILIZATION AS NEEDED TO PROTECT PEOPLE AND FACILITIES.
2. SEE PHASE 4 EROSION CONTROL DRAWINGS FOR REHABILITATION NOTES.



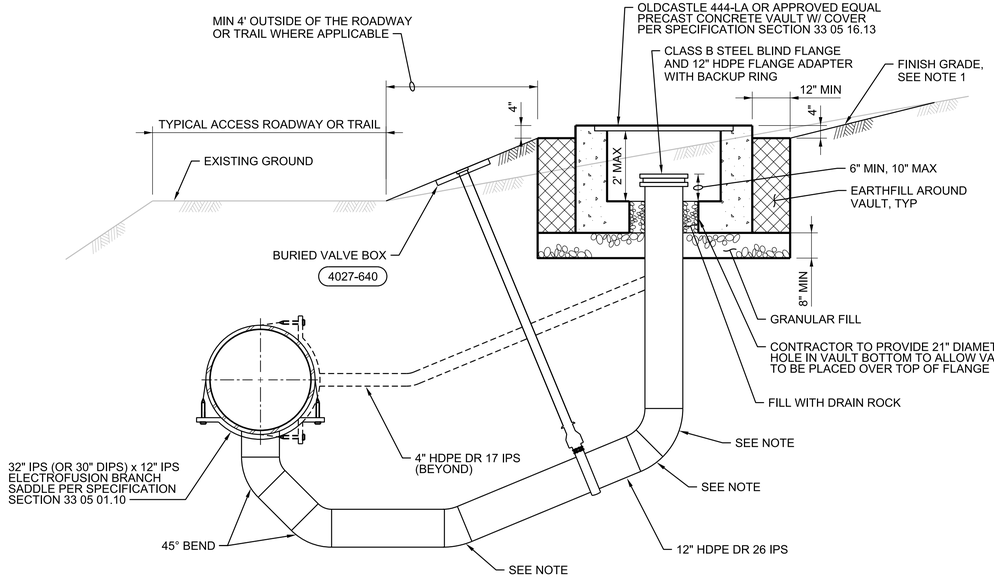
NOTES:

1. PROVIDE GRADING BLEND OVER 4-FEET AROUND VAULT TO PROVIDE POSITIVE DRAINAGE AWAY FROM VAULT ON ALL SIDES AND MATCH EXISTING GROUND.
2. FIELD FIT VAULTS FOR BLOWOFF ASSEMBLY, AS APPROVED BY ENGINEER.

2 PUMP OUT BLOWOFF PLAN VIEW

1"=2'

05-C-1003
05-C-1004

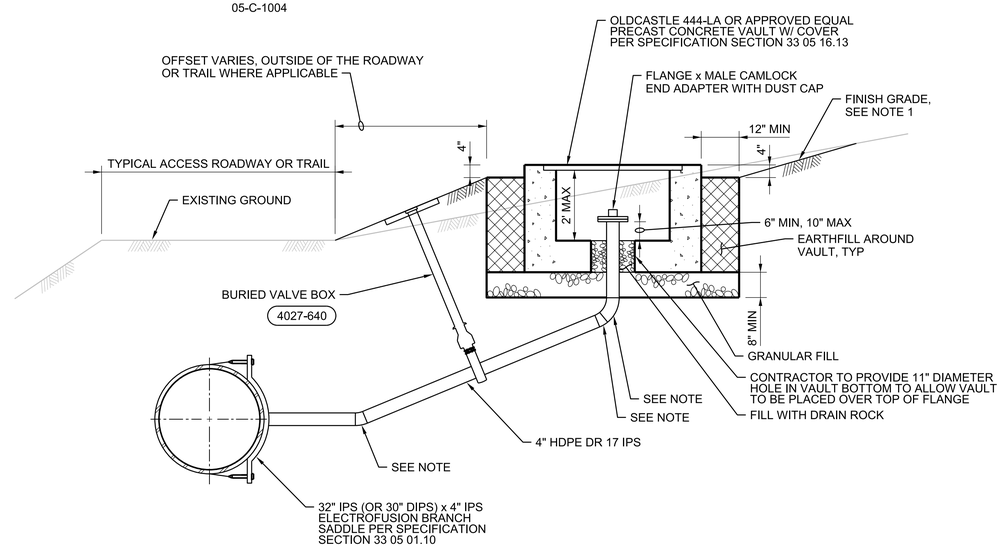


NOTE:

PROVIDE FITTINGS AS NEEDED TO MAINTAIN MINIMUM COVER UNTIL STUBBING UP INTO VAULT.

B BLOWOFF PIPING SECTION

1"=2'



C PUMPING WATER CONNECTION SECTION

1"=2'

REGISTERED PROFESSIONAL ENGINEER 60202PE OREGON Digital Signature JULY 8, 2016 MATTHEW JOHN BALDWIN

EXP 12-31-2023

NO.	DATE	DSGN	DR	CHK	BY
		A SITTEL	B GYAOUROVA	M BALDWIN	APVD
			REVISION		APVD

B FULLER

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Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

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CIVIL
PIPELINE DETAILS 2

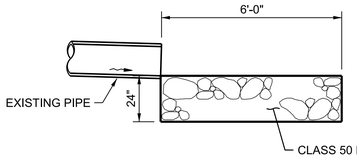
ISSUED FOR CONSTRUCTION

CONTRACT NO.: 2022-001

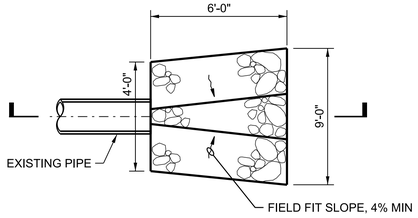
VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1502
SHEET	65 of 76



SECTION

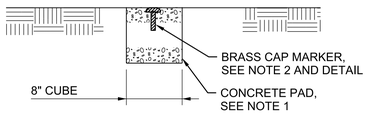


PLAN

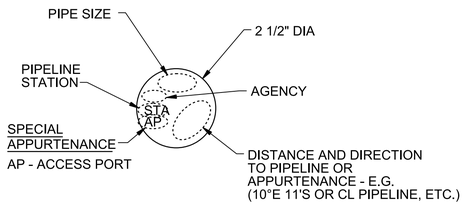
1 ROCK SLOPE PROTECTION

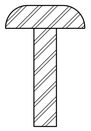
NTS

05-C-1013



SECTION





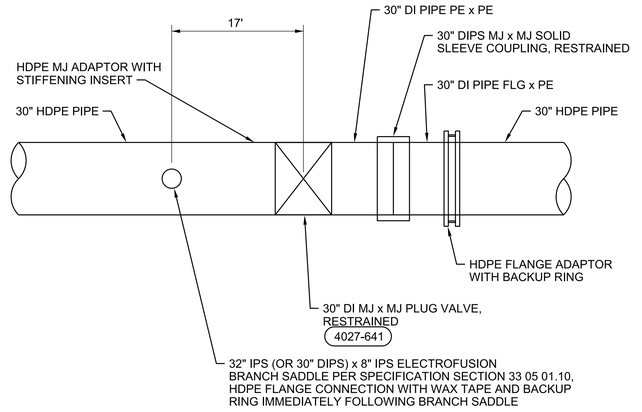
DETAIL

NOTES:

1. CONCRETE PAD SHALL BE FLUSH WITH EXST GRADE.
2. BRASS CAP MAKER SHALL BE CENTERED AND FLUSH WITH TOP OF CONCRETE PAD.
3. ENGRAVE OR STAMP THE INFORMATION REQUIRED IN THE HEAD OF THE BRASS CAP 0.05" MIN DEPTH)

3 CONCRETE PAD WITH BRASS CAP MARKER

NTS

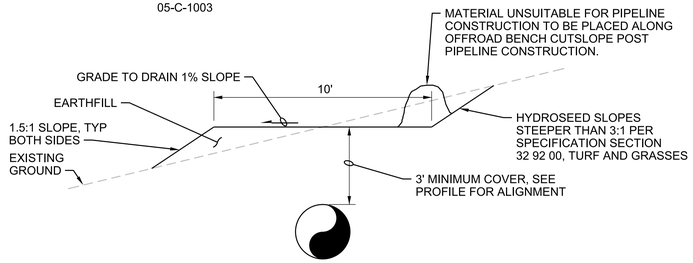


SECTION

5 CONNECTION DETAIL

NTS

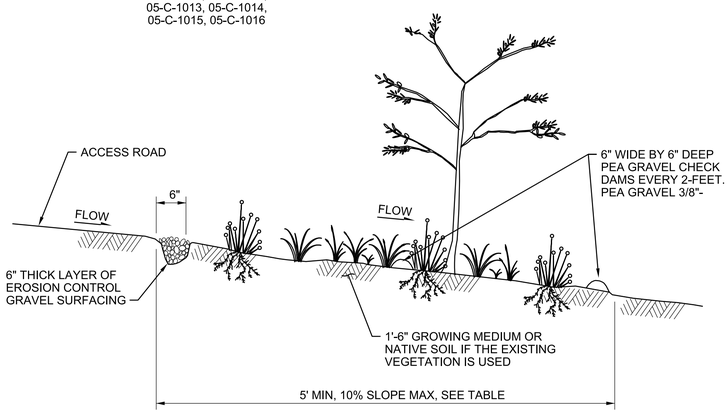
05-C-1003



6 OFFROAD BENCHING

NTS

05-C-1005, 05-C-1006,
05-C-1007, 05-C-1008,
05-C-1013, 05-C-1014,
05-C-1015, 05-C-1016

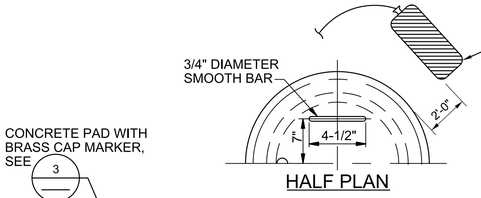


FILTER STRIP CROSS SLOPE (%)	MINIMUM FILTER STRIP WIDTH (FT)
2	5.5
5	7.0
10	8.5

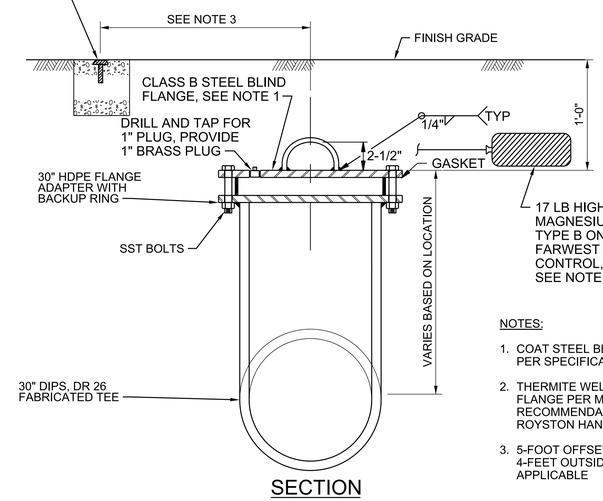
7 FILTER STRIP

NTS

05-C-1001
05-C-1002
05-C-1003
05-C-1004



HALF PLAN



SECTION

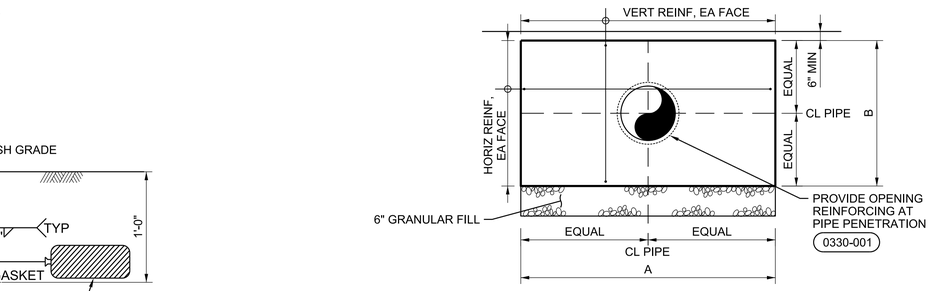
NOTES:

1. COAT STEEL BLIND FLANGE WITH SYSTEM NO.8 PER SPECIFICATION SECTION 09 90 00.
2. THERMITE WELD ANODE LEAD WIRE TO BLIND FLANGE PER MANUFACTURER'S RECOMMENDATIONS AND COVER WELD WITH ROYSTON HANDYCAP IP.
3. 5-FOOT OFFSET FROM ACCESS PORT CL OR 4-FEET OUTSIDE OF ACCESS ROAD/TRAIL IF APPLICABLE

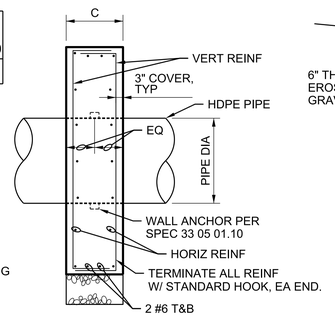
2 ACCESS PORT

NTS

05-C-1502
05-C-1005, 05-C-1007,
05-C-1009, 05-C-1012,
05-C-1013, 05-C-1015



DIM "A"	DIM "B"	DIM "C"	VERT REINF (EA FACE)	HORIZ REINF (EA FACE)
10'-0"	6'-0"	3'-0"	#6@6"	#8@6"



NOTES:

1. BLOCK SHALL BE POURED AGAINST UNDISTURBED NATIVE SOILS OR BACKFILL COMPACTED TO 90% RELATIVE COMPACTION ACCORDING TO ASTM D1557 USING NATIVE SOILS.
2. PIPE SHALL BE THERMALLY STABLE BEFORE CONSTRUCTION OF THRUSTBLOCK.
3. SEE SPECIFICATION, 03 30 10 STRUCTURAL CONCRETE, FOR CONCRETE AND REINFORCING REQUIREMENTS.

4 THRUST BLOCK

NTS

05-C-1001
05-C-1016
05-C-1018

REGISTERED PROFESSIONAL ENGINEER — Digital Signature — OREGON — JULY 8, 2008 — MATTHEW JOHN BALDWIN — 60202PE — EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	REVISION
	A SITTEL		B GYAOUROVA	M BALDWIN	APVD	B FULLER	

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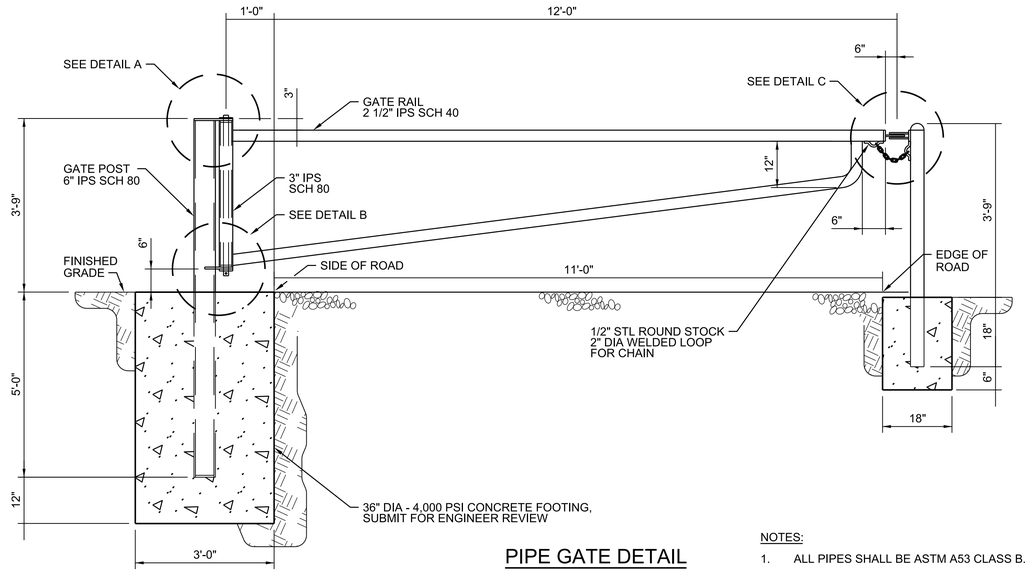
Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

Jacobs

CIVIL
PIPELINE DETAILS 3

CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

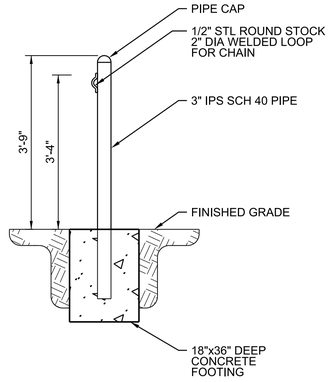
DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1503
SHEET	66 of 76



PIPE GATE DETAIL

NOTES:

1. ALL PIPES SHALL BE ASTM A53 CLASS B.
2. HOT DIP GALVANIZE STRUCTURE AFTER FABRICATION PER AASHTO M181.
3. SHOP DRAWINGS AND PRODUCT DATA SHALL BE SUBMITTED FOR SINGLE ARM GATE.



GATE TIE-DOWN POST

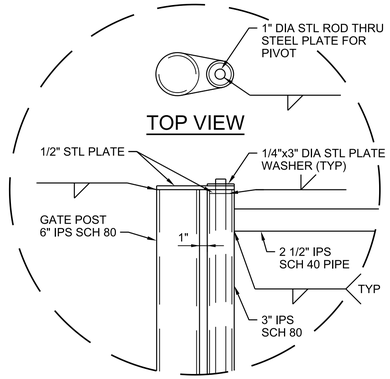
NOTES:

1. FIELD VERIFY GATE TIE-DOWN POST HEIGHT.
2. SEE DRAWING 05-C-1003 AND 05-C-1016 FOR GATE TIE-DOWN POST LOCATION.

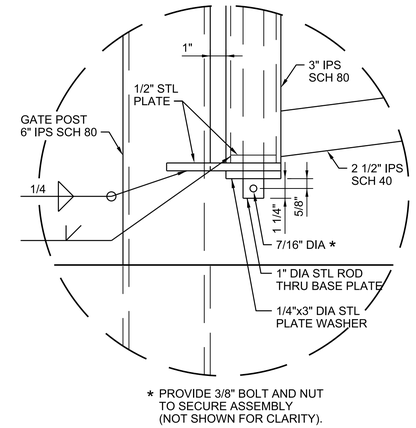
1 SINGLE ARM GATE WITH SLIDE TELESCOPE

NTS

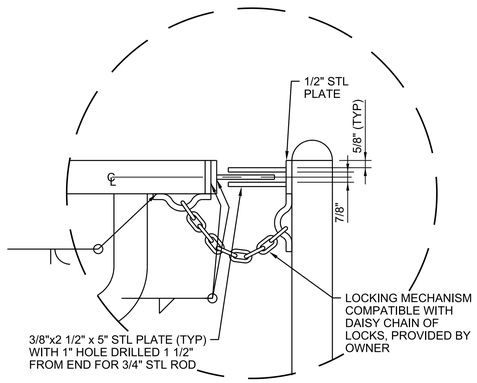
05-C-1003
05-C-1016



DETAIL A



DETAIL B



DETAIL C

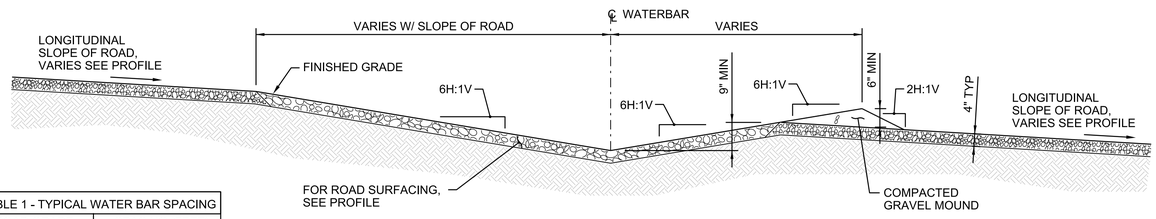


TABLE 1 - TYPICAL WATER BAR SPACING	
ROAD GRADE	SPACING (FEET)
1% - 3%	600
4% - 6%	300
7% - 9%	200
10% - 12%	150
13% - 18%	120
19%+	80

NOTES:

1. PROVIDE WATERBARS ALONG ACCESS ROADS PER TABLE 1.

2 WATERBAR TYPICAL SECTION

NTS

05-C-0100

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 8, 2008
MATTHEW JOHN BALDWIN
60202PE
Digital Signature
EXP: 12-31-2023

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NO.	DATE	DSGN	DR	CHK	APVD
REVISION		A SITTEL	A SITTEL	M BALDWIN	B FULLER

Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
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CIVIL
PIPELINE DETAILS 4

CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	05-C-1504
SHEET	67 of 76

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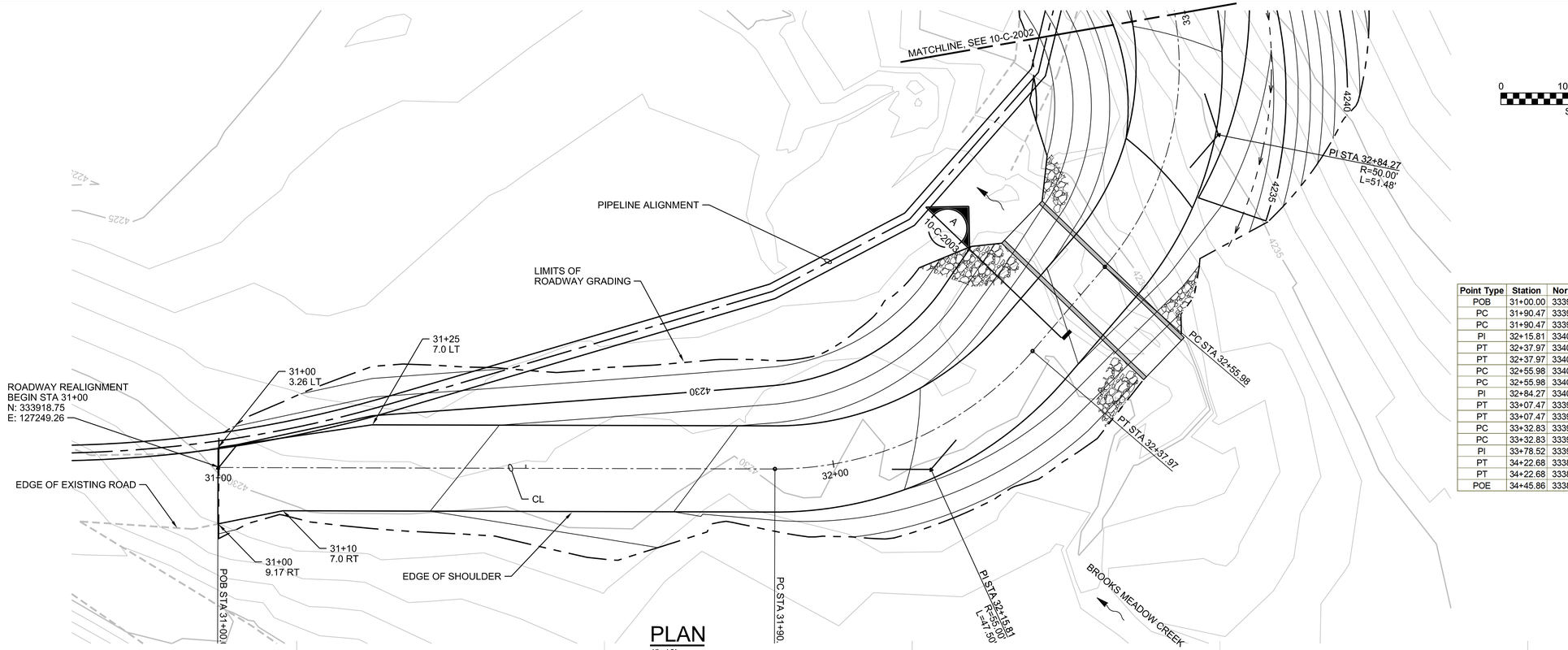
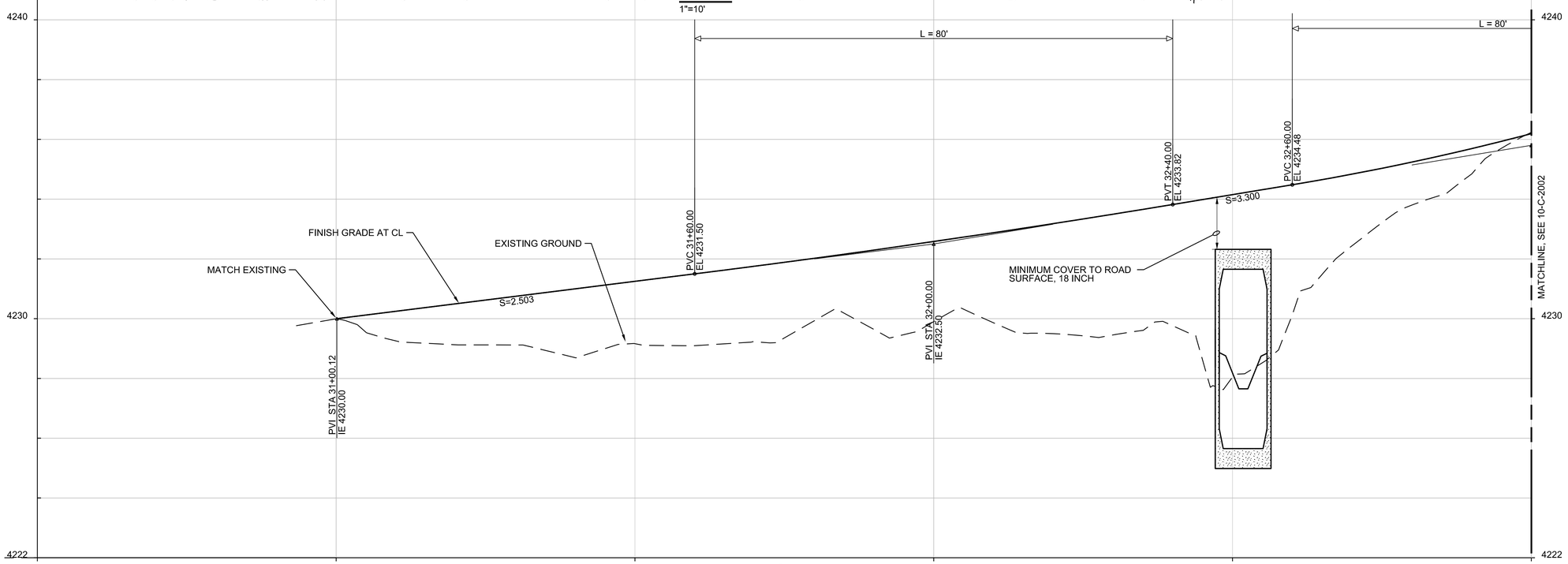
ISSUED FOR CONSTRUCTION



PLAN
1"=10'

Point Type	Station	Northing	Easting	Radius	Length	Tangent
POB	31+00.00	333918.75	127249.26			
PC	31+90.47	333987.52	127190.48			
PC	31+90.47	333987.52	127190.48			
PI	32+15.81	334006.79	127174.02	55.00	47.5	25.34
PT	32+37.97	334006.79	127148.67			
PT	32+37.97	334006.79	127148.67			
PC	32+55.98	334006.79	127130.66			
PC	32+55.98	334006.79	127130.66			
PI	32+84.27	334006.79	127102.37	50.00	51.48	28.29
PT	33+07.47	333982.54	127087.80			
PT	33+07.47	333982.54	127087.80			
PC	33+32.83	333960.81	127074.74			
PC	33+32.83	333960.81	127074.74			
PI	33+78.52	333921.64	127051.20	200.00	89.85	45.7
PT	34+22.68	333876.13	127047.01			
PT	34+22.68	333876.13	127047.01			
POE	34+45.86	333853.05	127044.88			



PROFILE
H: 1"=10'
V: 1"=2'

REGISTERED PROFESSIONAL ENGINEER
87364PE
Digital Signature: Timothy Bedford
OREGON
SEPT 10, 2018
TIMOTHY COLVIE BEDFORD
EXPIRES: 12/31/2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	APVD
		T BEDFORD	C ECKBERG	S CLAYTON			B FULLER

REVISION

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Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

Jacobs

BROOKS MEADOW CREEK
FSR 1700-014 ROAD CROSSING
PLAN AND PROFILE 1

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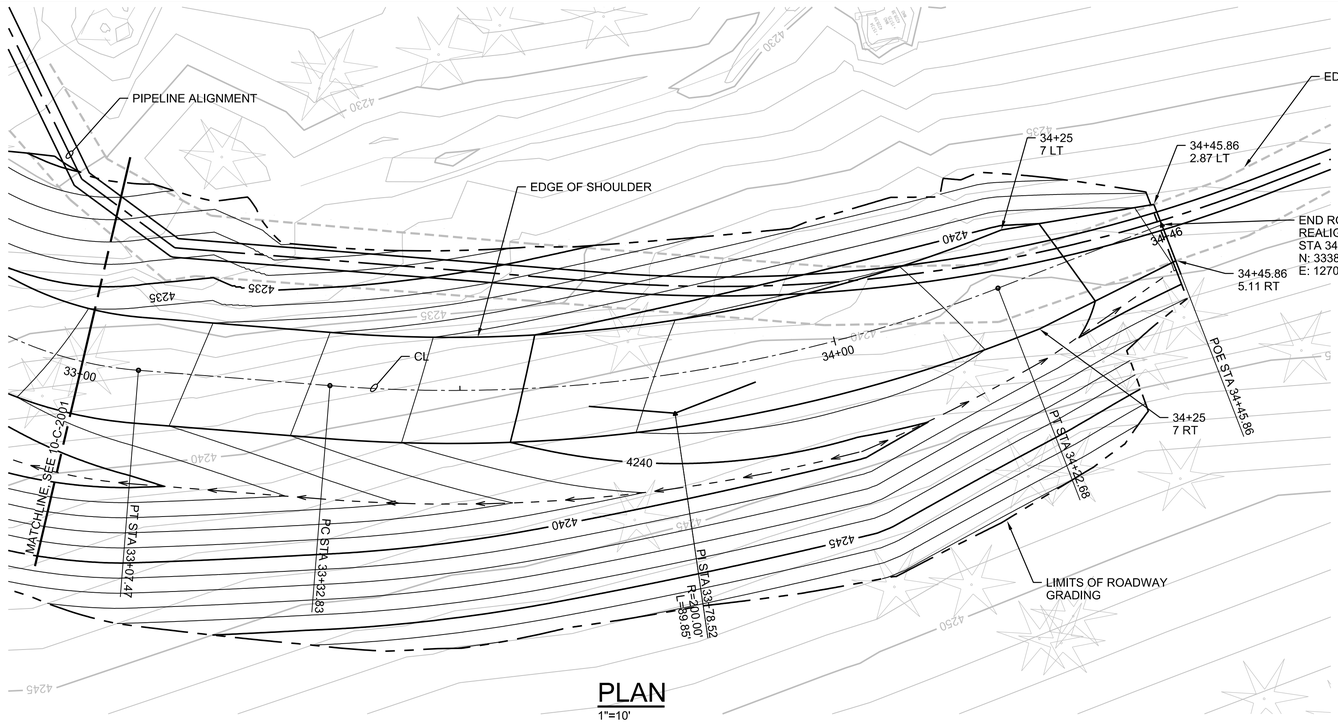
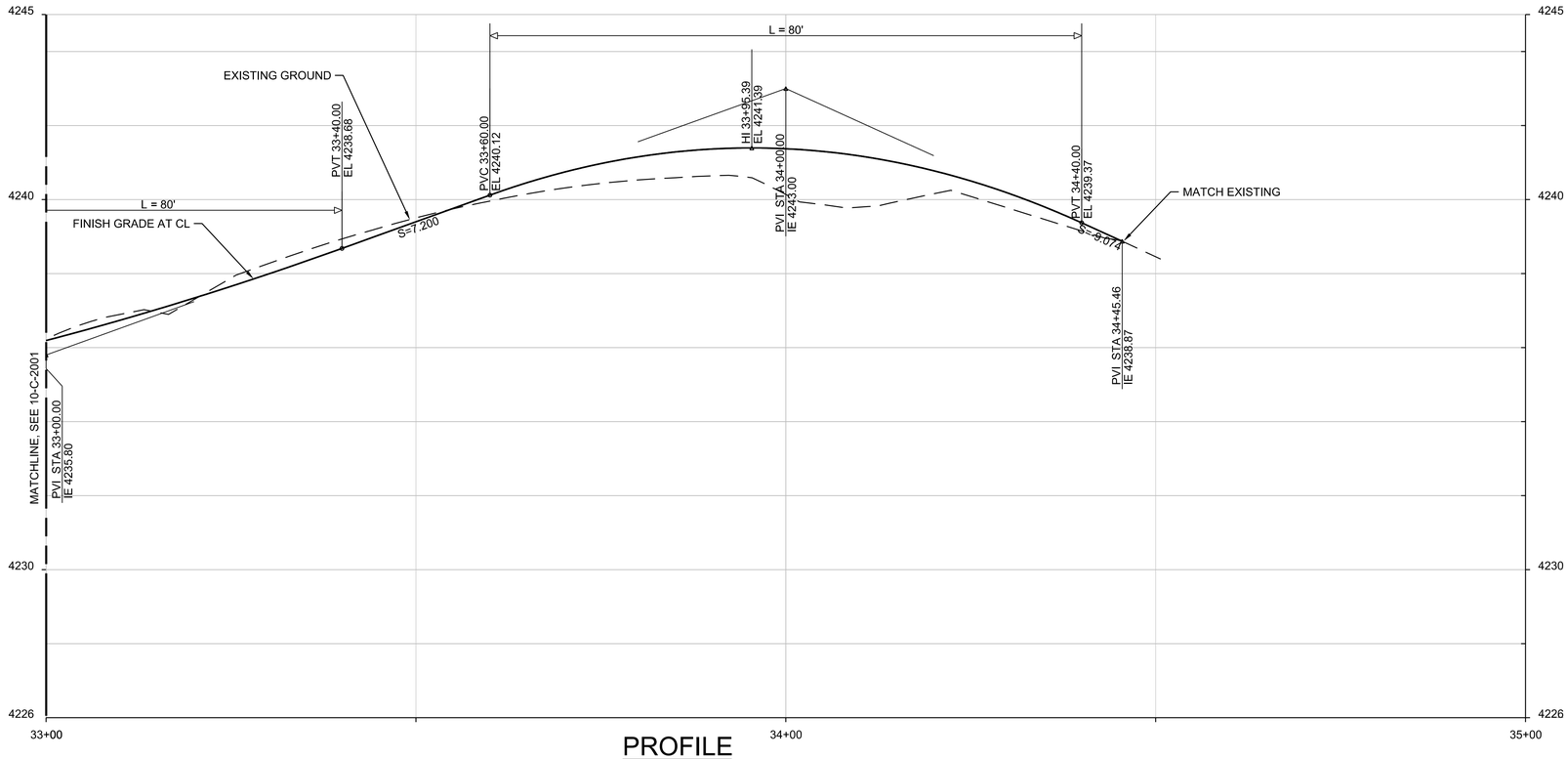
ISSUED FOR CONSTRUCTION

CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	10-C-2001
SHEET	68 of 76



PLAN
1"=10'



PROFILE
H: 1"=10'
V: 1"=2'

Point Type	Station	Northing	Easting	Radius	Length	Tangent
POB	31+00.00	333918.75	127249.26			
PC	31+90.47	333987.52	127190.48			
PC	31+90.47	333987.52	127190.48			
PI	32+15.81	334006.79	127174.02	55.00	47.5	25.34
PT	32+37.97	334006.79	127148.67			
PT	32+37.97	334006.79	127148.67			
PC	32+55.98	334006.79	127130.66			
PC	32+55.98	334006.79	127130.66			
PI	32+84.27	334006.79	127102.37	50.00	51.48	28.29
PT	33+07.47	333982.54	127087.80			
PT	33+07.47	333982.54	127087.80			
PC	33+32.83	333960.81	127074.74			
PC	33+32.83	333960.81	127074.74			
PI	33+78.52	333921.64	127051.20	200.00	89.85	45.7
PT	34+22.68	333876.13	127047.01			
PT	34+22.68	333876.13	127047.01			
POE	34+45.86	333853.05	127044.88			

N

0 10 20 30
Scale In Feet

REGISTERED PROFESSIONAL ENGINEER
87364PE
Digital Signature: Timothy Bedford
OREGON
SEPT 10, 2018
TIMOTHY COLVIE BEDFORD
EXPIRES: 12/31/2023

NO.	DATE	DR	REVISION	CHK	APVD	BY	APVD
DSGN	T BEDFORD	C ECKBERG		S.CLAYTON		B FULLER	

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Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

BROOKS MEADOW CREEK
FSR 1700-014 ROAD CROSSING
PLAN AND PROFILE 2

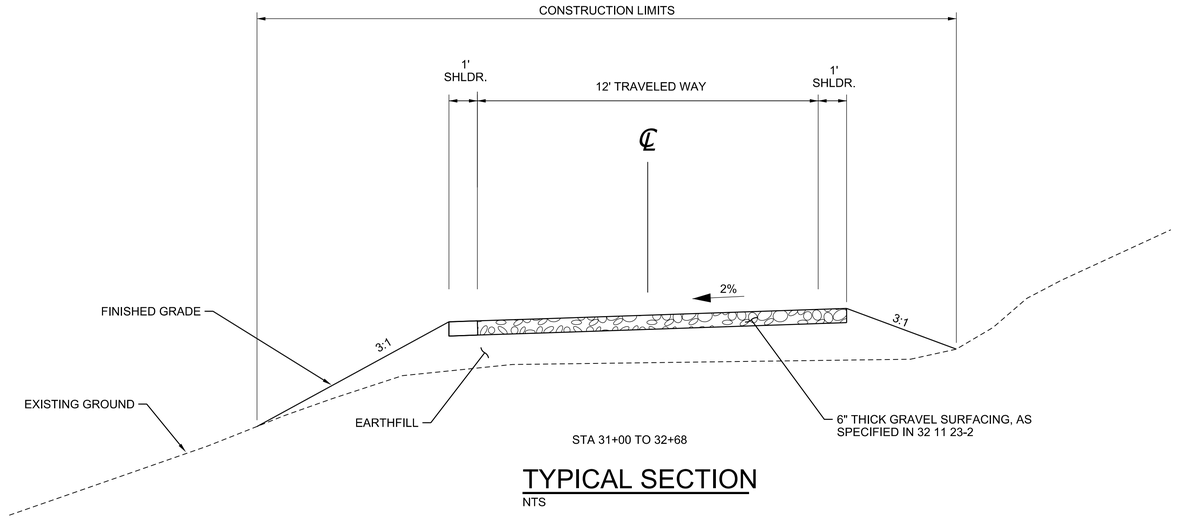
ISSUED FOR CONSTRUCTION

CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

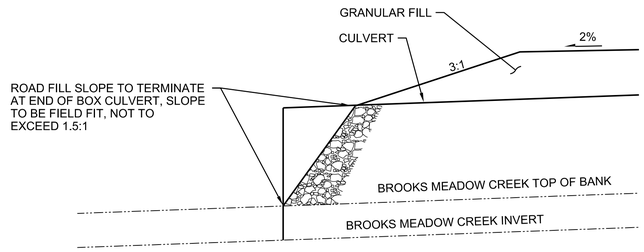
DATE	MARCH 2022
PROJ	D3504800
DWG	10-C-2002
SHEET	69 of 76

GENERAL NOTES

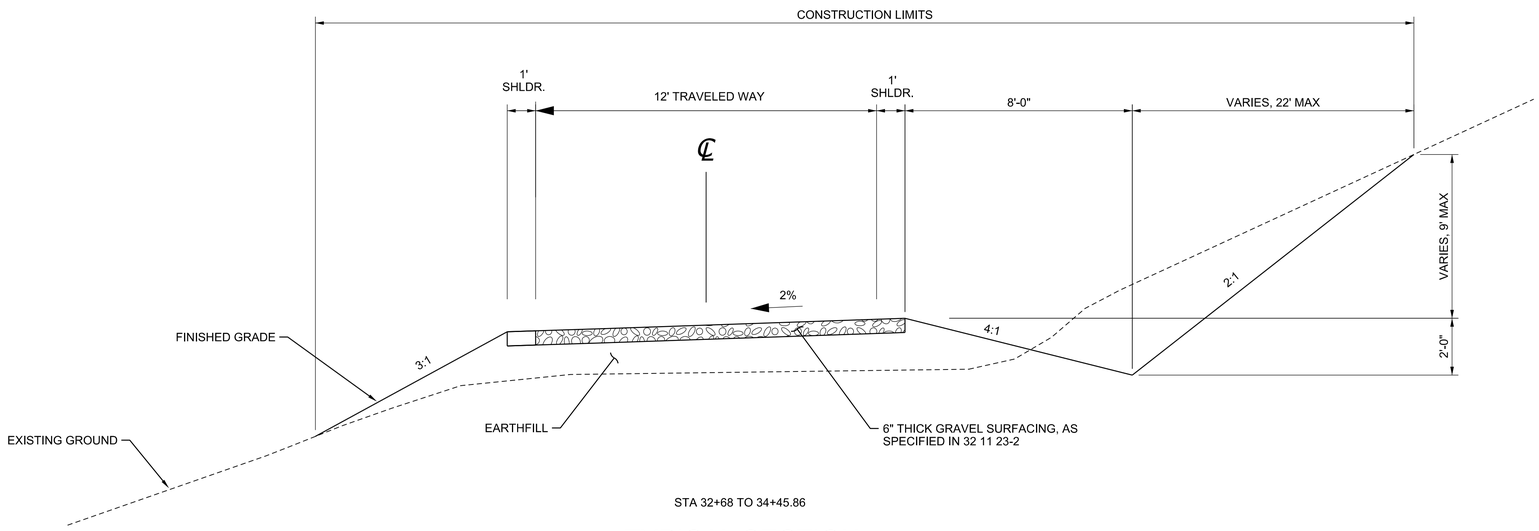
1. TYPICAL SECTION STATIONING INCLUDES TAPERING INTO EXISTING GRADE.
2. TYPICAL SECTIONS AT THE START AND END CONNECT INTO THE EXISTING ROADWAY. THE TAPERS ARE DESCRIBED ON THE PLAN AND PROFILE SHEETS.



TYPICAL SECTION
NTS



A SECTION
NTS
10-C-2001



TYPICAL SECTION
NTS

REGISTERED PROFESSIONAL ENGINEER
87364PE
Digital Signature: Timothy Bedford
OREGON
SEPT 10, 2018
TIMOTHY COLVIE BEDFORD
EXPIRES: 12/31/2023

NO.	DSGN	DATE	REVISION	BY	APVD
	DR	T BEDFORD	J VESOTSKI	CHK	S CLAYTON
					APVD
					BY
					B FULLER

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Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

BROOKS MEADOW CREEK
FSR 1700-014 ROAD CROSSING
TYPICAL SECTIONS

CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
DATE MARCH 2022
PROJ D3504800
DWG 10-C-2003
SHEET 70 of 76

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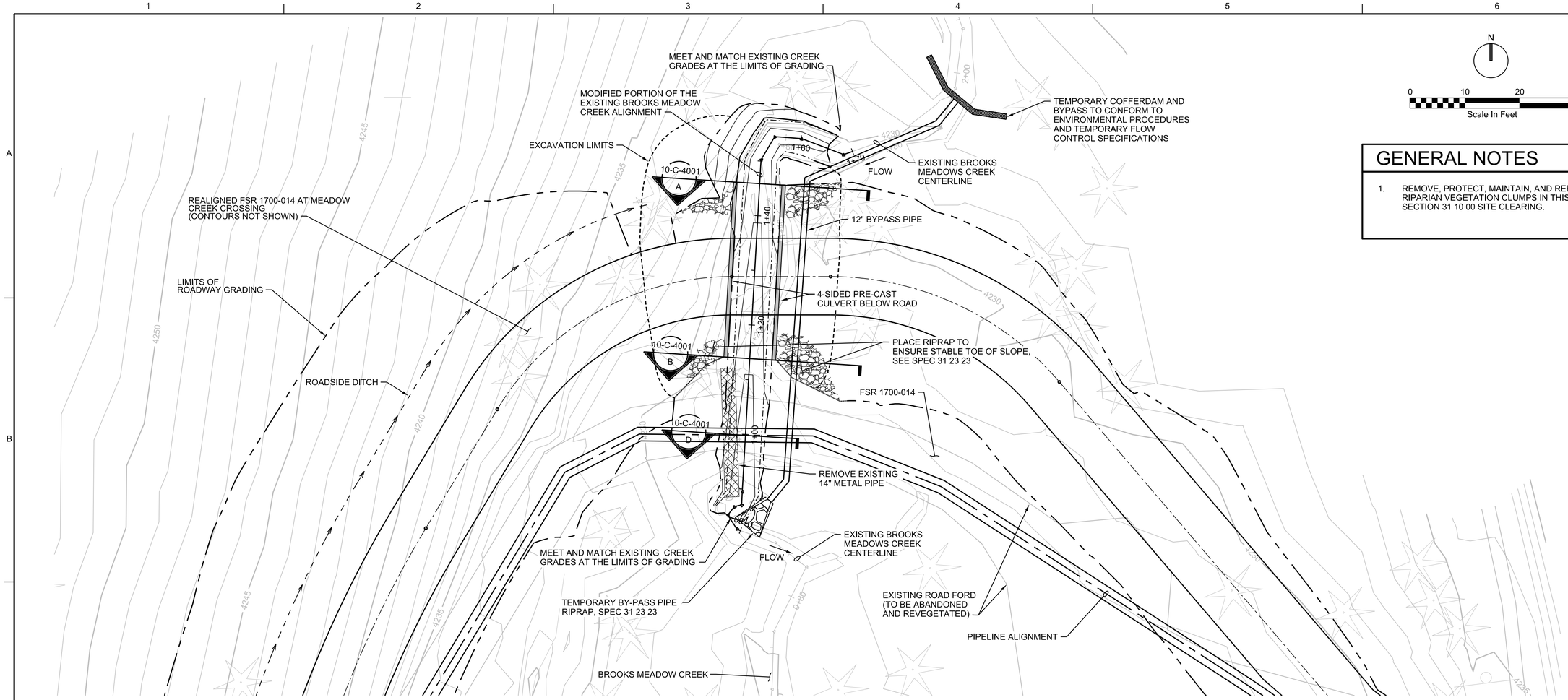


N

0 10 20 30

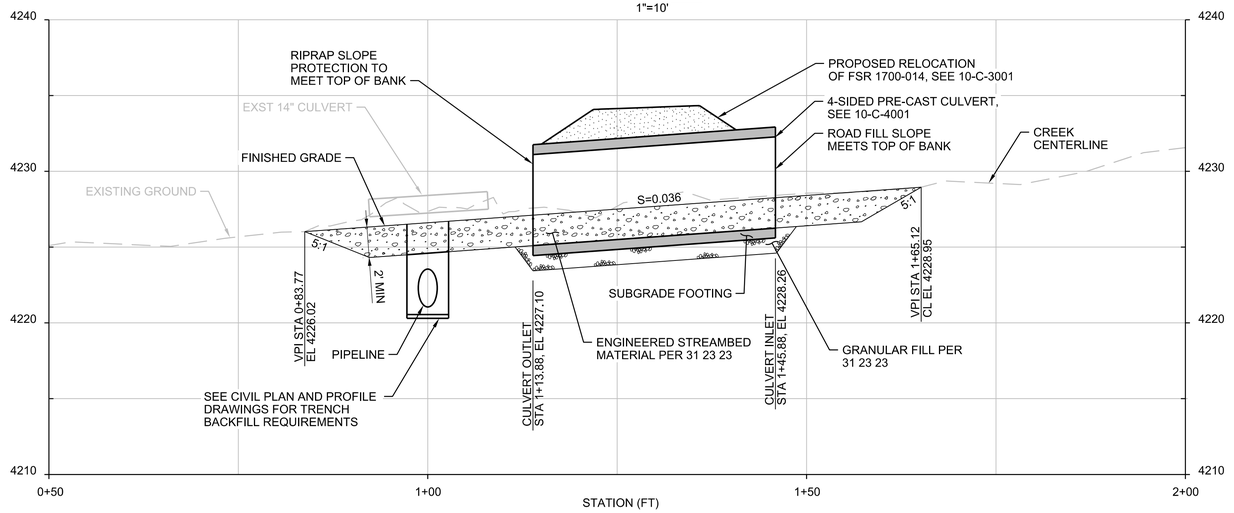
Scale In Feet

GENERAL NOTES

1. REMOVE, PROTECT, MAINTAIN, AND REPLANT 30 RIPARIAN VEGETATION CLUMPS IN THIS AREA. SEE SECTION 31 10 00 SITE CLEARING.

PLAN

1"=10'



PROFILE

H: 1"=10'
V: 1"=5'

MODIFIED BROOKS MEADOW CREEK HORIZONTAL AND VERTICAL ALIGNMENT DATA

STATION	NORTHING	EASTING	ELEVATION	GRADE
0+85.00	333,964.19	127,130.66	4,226.07	3.60%
0+90.00	333,967.98	127,132.57	4,226.25	3.60%
0+95.00	333,972.97	127,132.86	4,226.43	3.60%
1+00.00	333,977.96	127,133.14	4,226.61	3.60%
1+05.00	333,982.96	127,133.42	4,226.79	3.60%
1+10.00	333,987.95	127,133.70	4,226.97	3.60%
1+15.00	333,992.94	127,133.98	4,227.15	3.60%
1+20.00	333,997.93	127,134.27	4,227.33	3.60%
1+25.00	334,002.93	127,134.55	4,227.51	3.60%
1+30.00	334,007.92	127,134.83	4,227.69	3.60%
1+35.00	334,012.91	127,135.11	4,227.87	3.60%
1+40.00	334,017.90	127,135.39	4,228.05	3.60%
1+45.00	334,022.89	127,135.67	4,228.23	3.60%
1+50.00	334,027.89	127,135.96	4,228.41	3.60%
1+55.00	334,032.21	127,138.41	4,228.59	3.60%
1+60.00	334,032.00	127,143.31	4,228.77	3.60%
1+65.00	334,030.25	127,147.99	4,228.95	3.60%

REGISTERED PROFESSIONAL ENGINEER
87364PE
Digital Signature: Timothy Bedford
OREGON
SEPT 10, 2018
TIMOTHY COLVIE BEDFORD
EXPIRES: 12/31/2023

NO.	DATE	DR	CHK	APVD	BY	APVD
DSGN	T BEDFORD	C ECKBERG	S.CLAYTON			B FULLER

REVISION

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Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

BROOKS MEADOW CREEK

CULVERT AND STREAM RESTORATION PLAN AND PROFILE

ISSUED FOR CONSTRUCTION

CONTRACT NO.: 2022-001

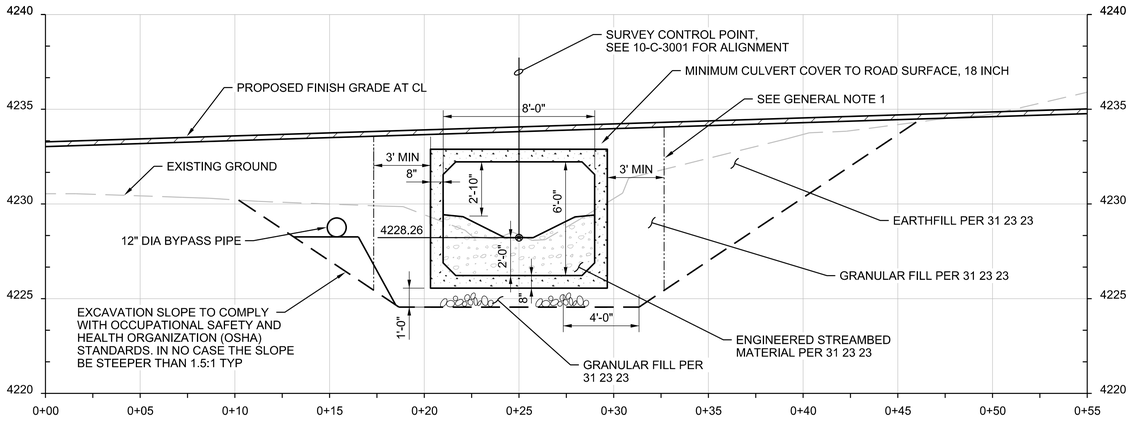
VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

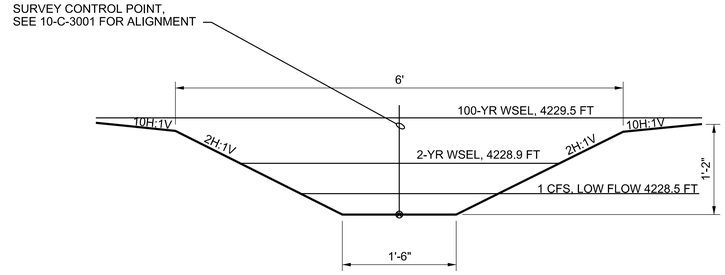
DATE	MARCH 2022
PROJ	D3504800
DWG	10-C-3001
SHEET	71 of 76

GENERAL NOTES

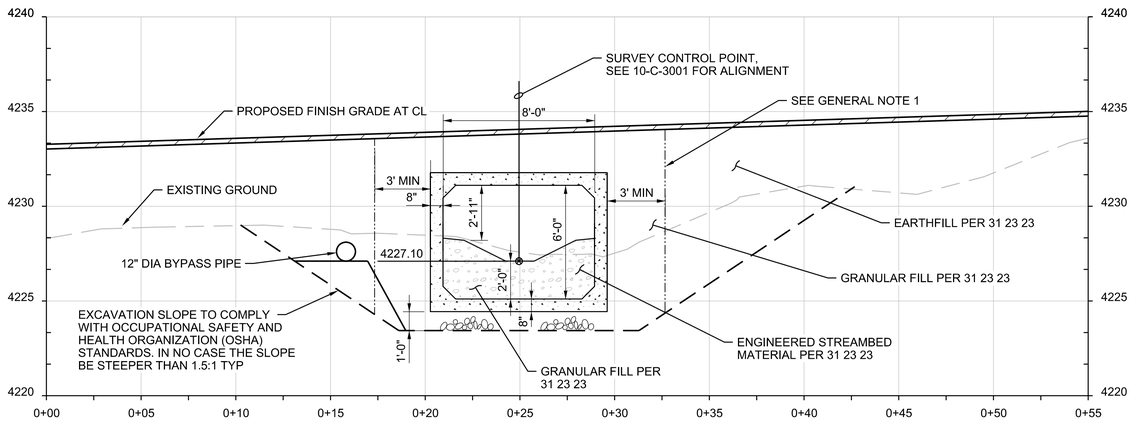
1. FOR CULVERT TYPE AND INSTALLATION INFORMATION, SEE SPECIFICATIONS 31 23 23 AND 33 05 16.
2. ALL CROSS SECTIONS ARE DRAWN LEFT TO RIGHT VIEWED LOOKING DOWNSTREAM



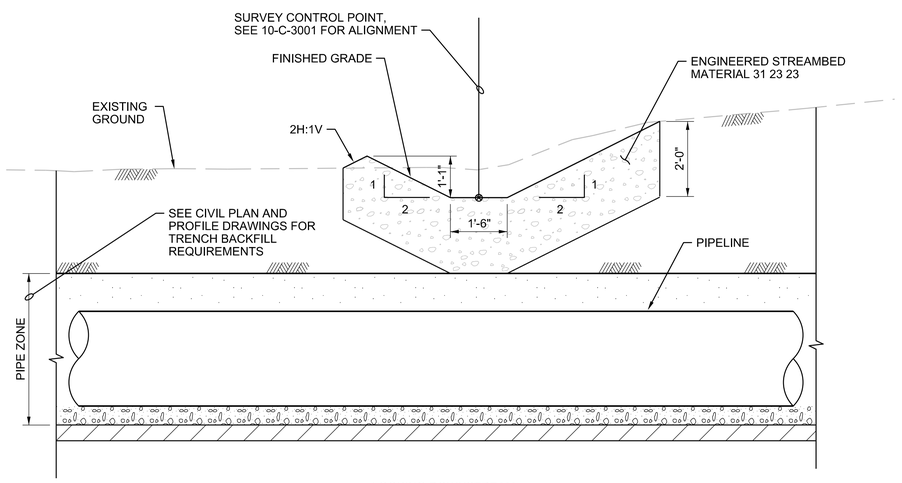
A SECTION A - CULVERT INLET
1/4"=1'-0"
05-C-3001



C CHANNEL DIMENSIONS
1"=1'-0"



B SECTION B - CULVERT OUTLET
1/4"=1'-0"
05-C-3001



LOOKING DOWNSTREAM

D SECTION
1/2"=1'-0"
05-C-3001

REGISTERED PROFESSIONAL ENGINEER
87364PE
Digital Signature: Timothy Bedford
OREGON
SEPT 10, 2018
TIMOTHY COLVIE BEDFORD
EXPIRES: 12/31/2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	APVD
		T BEDFORD	B GYAOUROVA	REVISION	S.CLAYTON		B FULLER

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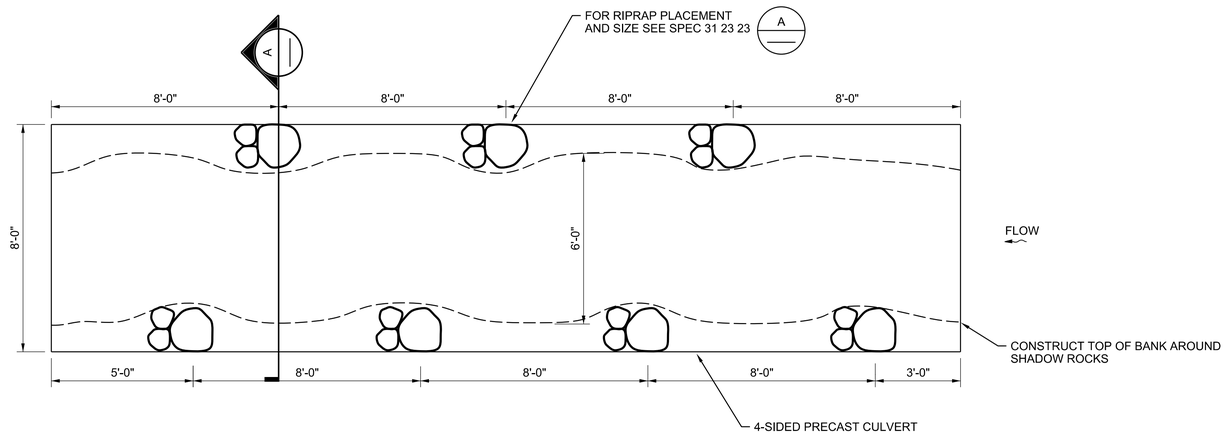
Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

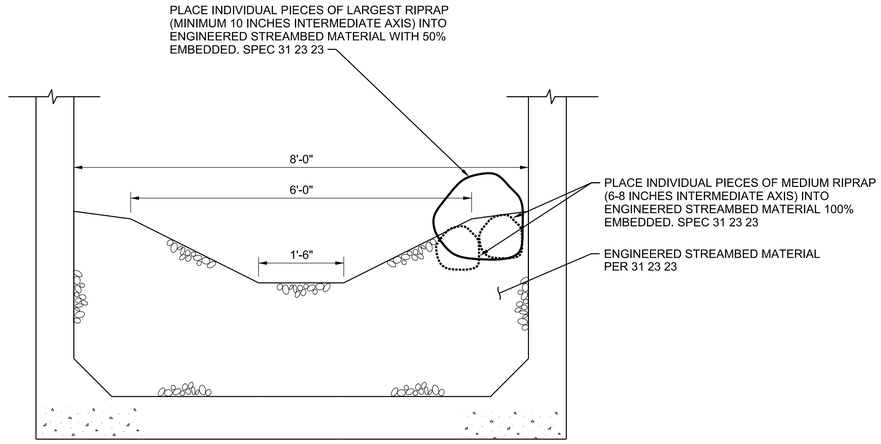
BROOKS MEADOW CREEK
CULVERT SECTIONS

ISSUED FOR CONSTRUCTION

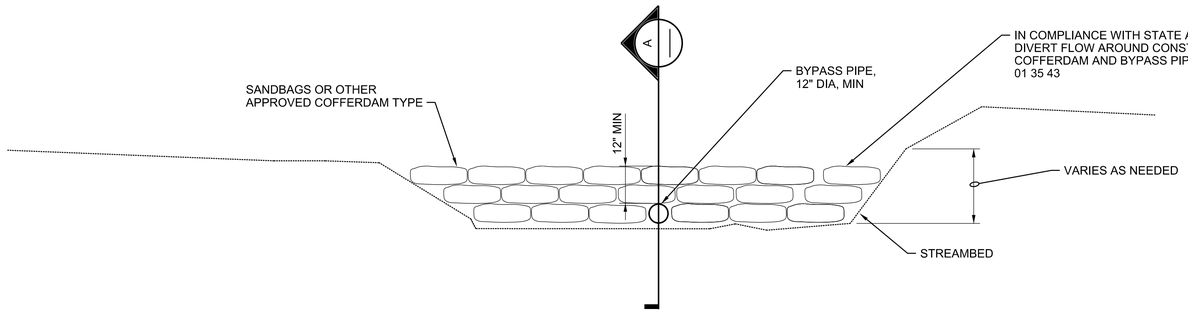
CONTRACT NO.: 2022-001	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	10-C-4001
SHEET	72 of 76



PLAN
3/8"=1'-0"

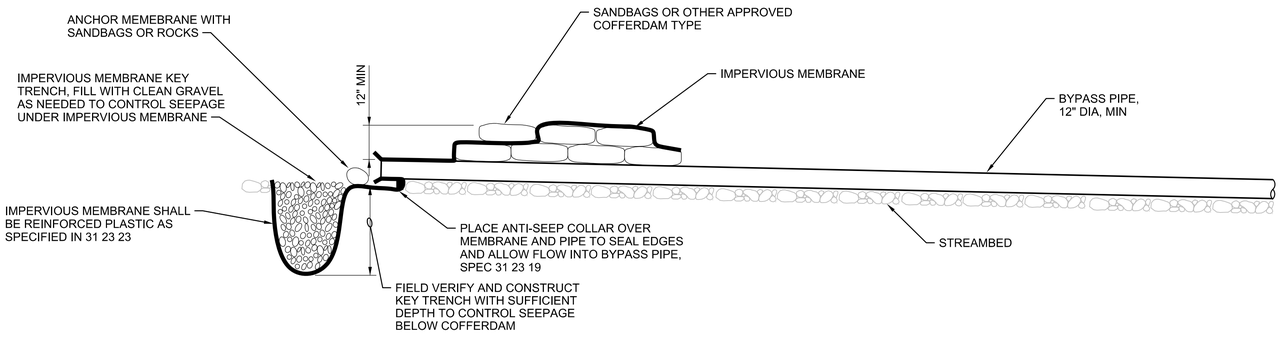


A SECTION
3/4"=1'-0"



1 SCHEMATIC COFFERDAM ELEVATION
NTS

10-C-3001



A SCHEMATIC COFFERDAM SECTION
NTS

REGISTERED PROFESSIONAL ENGINEER
87364PE
Digital Signature: Timothy Bedford
OREGON
SEPT 10, 2018
TIMOTHY COLVIE BEDFORD
EXPIRES: 12/31/2023

NO.	DATE	DSGN	DR	REVISION	CHK	APVD	BY	APVD
		T BEDFORD	B GYAOUROVA		S CLAYTON		B FULLER	

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Dog River Pipeline Replacement
Mt. Hood National Forest
City Of The Dalles
The Dalles, OR

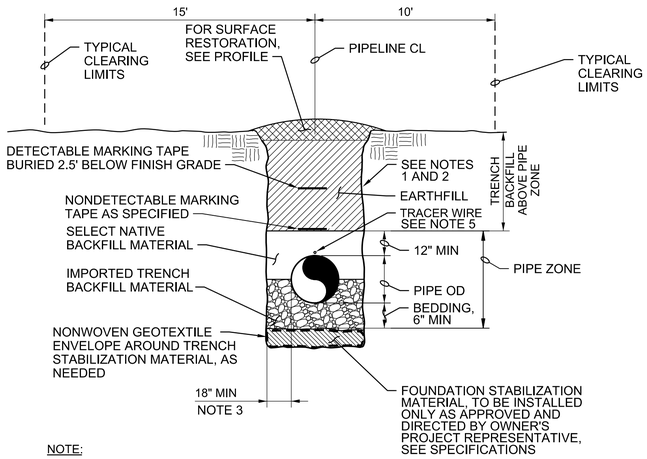
Jacobs

BROOKS MEADOW CREEK
CULVERT AND BYPASS DETAILS

ISSUED FOR CONSTRUCTION

CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	10-C-5001
SHEET	73 of 76



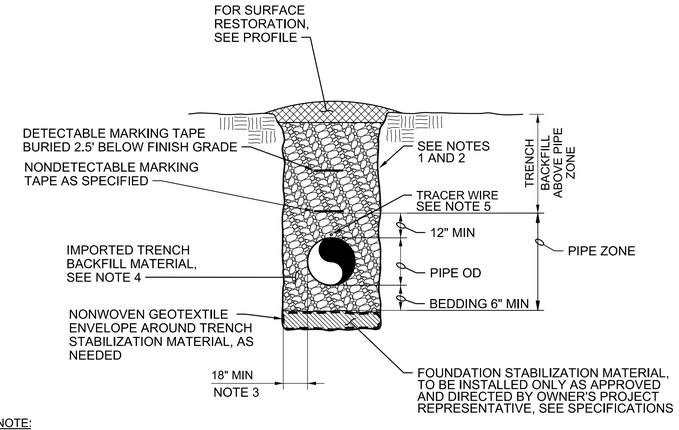
NOTE:

1. VERTICAL TRENCH WALLS ARE SHOWN FOR ILLUSTRATION PURPOSES ONLY, EXCAVATE AS NEEDED FOR CONSTRUCTION AND SLOPE AND/OR PROVIDE ADEQUATE SHORING FOR SAFETY AND CONFORMANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS. DO NOT EXCEED AVAILABLE WORK AREA.
2. PIPE ZONE AND BACKFILL MATERIAL AS SHOWN OR SPECIFIED SHALL EXTEND TO THE EDGE OF THE EXCAVATED TRENCH UNLESS SHOWN OTHERWISE.
3. PIPE SHALL BE CENTERED IN TRENCH. DIMENSION SHOWN IS CLEAR SPACE BETWEEN PIPE WALL AND TRENCH WALL OR SHORING.
4. INSTALL BOTTOM 6-INCHES OF BEDDING MATERIAL AND COMPACT PER SPECIFICATIONS. PRIOR TO INSTALLING THE PIPE, SCARIFY TOP 1 INCH TO 2 INCHES OF COMPACTED BEDDING MATERIAL WITH A RAKE OR BY OTHER MEANS TO PROVIDE A CUSHION BEFORE LAYING EACH SECTION OF PIPE.
5. PROVIDE VALVE BOXES AS SPECIFIED IN SECTION 31 23 25.15 TRENCH BACKFILL.

TRENCH BACKFILL: TYPE A

NTS

3123-110A



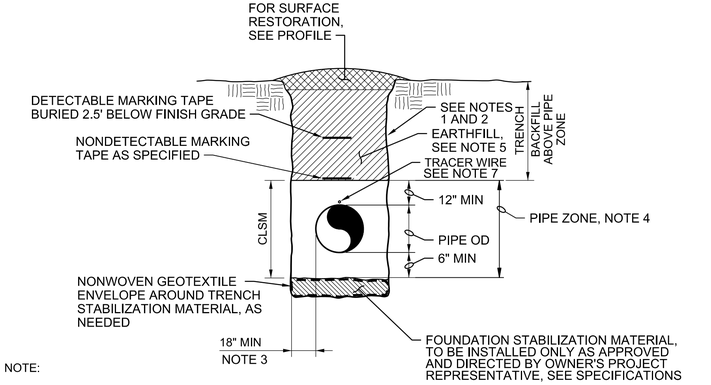
NOTE:

1. VERTICAL TRENCH WALLS ARE SHOWN FOR ILLUSTRATION PURPOSES ONLY, EXCAVATE AS NEEDED FOR CONSTRUCTION AND SLOPE AND/OR PROVIDE ADEQUATE SHORING FOR SAFETY AND CONFORMANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS. DO NOT EXCEED AVAILABLE WORK AREA.
2. PIPE ZONE AND BACKFILL MATERIAL AS SHOWN OR SPECIFIED SHALL EXTEND TO THE EDGE OF THE EXCAVATED TRENCH UNLESS SHOWN OTHERWISE.
3. PIPE SHALL BE CENTERED IN TRENCH. DIMENSION SHOWN IS CLEAR SPACE BETWEEN PIPE WALL AND TRENCH WALL OR SHORING.
4. INSTALL BOTTOM 6 INCHES OF BEDDING MATERIAL AND COMPACT PER SPECIFICATIONS. PRIOR TO INSTALLING THE PIPE, SCARIFY TOP 1 INCH TO 2 INCHES OF COMPACTED BEDDING MATERIAL WITH A RAKE OR BY OTHER MEANS TO PROVIDE A CUSHION BEFORE LAYING EACH SECTION OF PIPE.
5. PROVIDE VALVE BOXES AS SPECIFIED IN SECTION 31 23 25.15 TRENCH BACKFILL.

TRENCH BACKFILL: TYPE B

NTS

3123-110B



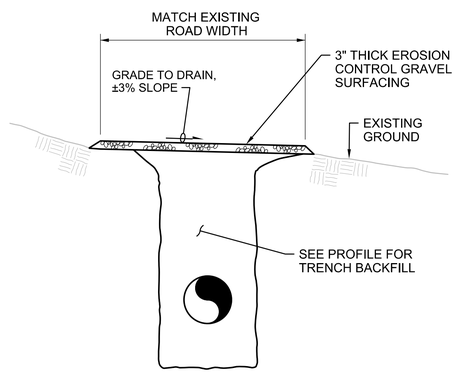
NOTE:

1. VERTICAL TRENCH WALLS ARE SHOWN FOR ILLUSTRATION PURPOSES ONLY. EXCAVATE AS NEEDED FOR CONSTRUCTION AND SLOPE AND/OR PROVIDE ADEQUATE SHORING FOR SAFETY AND CONFORMANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS. DO NOT EXCEED AVAILABLE WORK AREA.
2. CLSM AND TRENCH BACKFILL MATERIAL AS SHOWN OR SPECIFIED SHALL EXTEND TO THE EDGE OF THE EXCAVATED TRENCH UNLESS SHOWN OTHERWISE.
3. PIPE SHALL BE CENTERED IN TRENCH. DIMENSION SHOWN IS CLEAR SPACE BETWEEN PIPE WALL AND TRENCH WALL OR SHORING.
4. CLSM SHALL BE PLACED WITHIN THE PIPE ZONE. PLACEMENT REQUIREMENTS:
   A) CLSM SHALL BE VIBRATED IF NECESSARY FOR CLSM TO FLOW UNDER AND AROUND THE PIPE AS SPECIFIED.
   B) INTERMITTENTLY SUPPORT PIPE ON SANDBAGS PRIOR TO PLACING CLSM
   C) REFER TO SECTION 31 23 25.15 TRENCH BACKFILL FOR PIPELINES, CONTROLLED LOW STRENGTH MATERIAL (CLSM).
   D) PLACE IN LIFTS AS NECESSARY TO PREVENT UPLIFT (FLOTATION) OF PIPING
6. PROVIDE ENGINEERED STREAMBED MATERIAL AT STREAM CROSSINGS.
7. PROVIDE VALVE BOXES AS SPECIFIED IN SECTION 31 23 25.15 TRENCH BACKFILL.

TRENCH BACKFILL: TYPE C

NTS

3123-110C

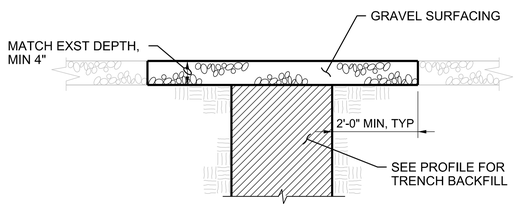


GRADED GRAVEL SURFACING

SURFACE RESTORATION: TYPE A

NTS

3123-115A

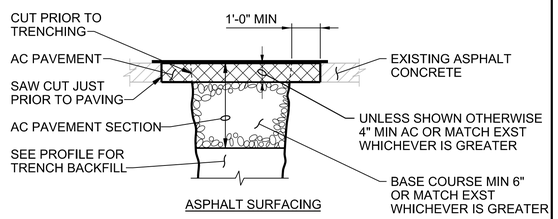


GRAVEL SURFACING

SURFACE RESTORATION: TYPE B

NTS

3123-115B

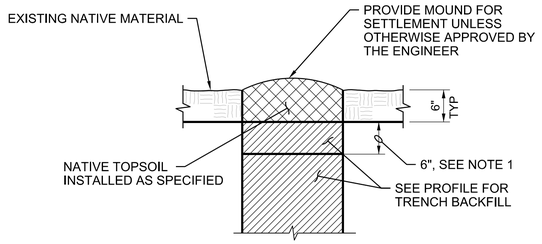


ASPHALT SURFACING

SURFACE RESTORATION: TYPE C

NTS

3123-115C



TOPSOIL

NOTE:

1. THE TOP 6" OF TRENCH BACKFILL, BENEATH THE TOPSOIL LAYER, SHALL BE INSTALLED, SMOOTHED, BUT LEFT UNCOMPACTED.

SURFACE RESTORATION: TYPE D

NTS

3123-115D

REGISTERED PROFESSIONAL ENGINEER 60202PE OREGON JULY 8, 2014 JOHN MATTHEW BALDWIN

Digital Signature

EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD
		A SITTEL	B GYAOUROVA	M BALDWIN	B FULLER

REVISION

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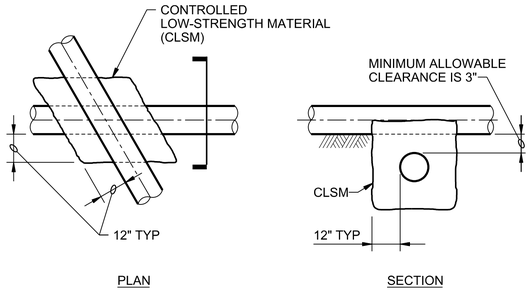
ISSUED FOR CONSTRUCTION

CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	99-C-0001
SHEET	74 of 76



NOTES:

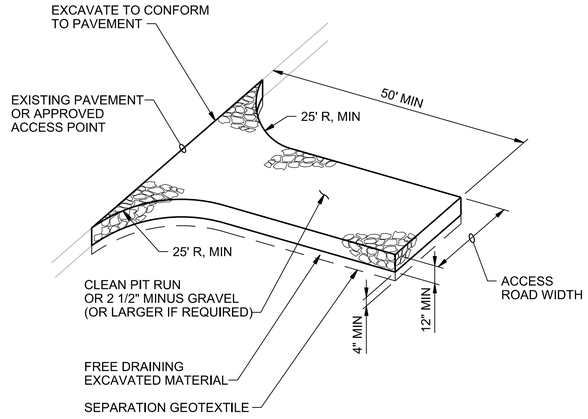
CLSM SUPPORT IS REQUIRED:

1. WHEN BOTH PIPELINES ARE NEW AND CLEARANCE BETWEEN THEM IS LESS THAN 12".
2. WHEN A NEW PIPELINE IS CROSSING OVER AN EXISTING PIPELINE AND THE CLEARANCE BETWEEN THEM IS LESS THAN 12".
3. AT ALL PIPE CROSSINGS WHERE A NEW PIPELINE IS CROSSING UNDER AN EXISTING PIPELINE.
4. REFER TO SPECIFICATION SECTION 31 23 23.15 FOR CLSM REQUIREMENTS.

TRENCH PIPE CROSSING

NTS

3123-120



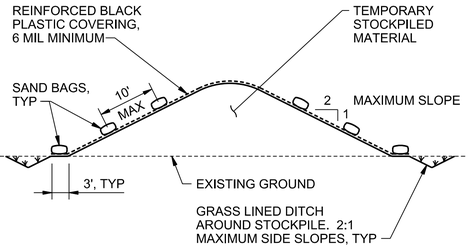
NOTES:

1. ADDITIONAL GRAVEL MAY HAVE TO BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.
2. REMOVE GRAVEL ENTRANCE AND REPLACE WITH SURFACE RESTORATION TYPE A MATERIAL (3123-115A) PRIOR TO PROJECT COMPLETION.

TEMPORARY CONSTRUCTION ENTRANCE

NTS

3125-130



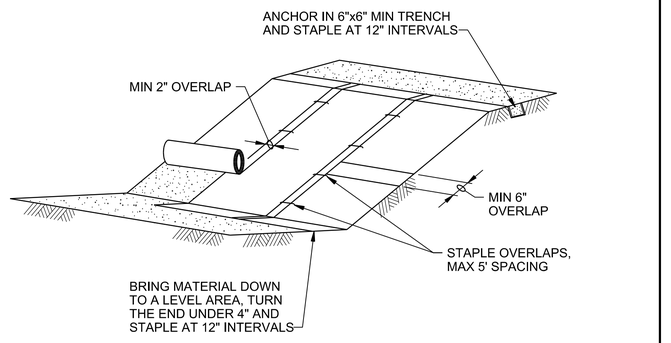
NOTES:

1. ALL SEAMS SHALL BE TAPED OR WEIGHTED DOWN FULL LENGTH. ALL SEAMS SHALL HAVE A MINIMUM 12" OVERLAP.
2. SEAMS PARALLEL TO THE SLOPE CONTOUR SHALL HAVE THE UPHILL SHEET OVERLAP THE DOWN HILL SHEET.
3. NO SURFACE RUN-OFF SHALL BE ALLOWED TO RUN UNDER THE PLASTIC COVERING.
4. DRAINAGE FROM AREAS COVERED BY REINFORCED PLASTIC SHEETING SHALL BE CONTROLLED SUCH THAT NO DISCHARGE OCCURS DIRECTLY ONTO UNCONTROLLED DISTURBED AREAS OF THE CONSTRUCTION SITE.
5. ALL SAND BAGS SHALL BE MAINTAINED IN PLACE WITH ROPE.

TEMPORARY STOCKPILE COVERING

NTS

3125-140



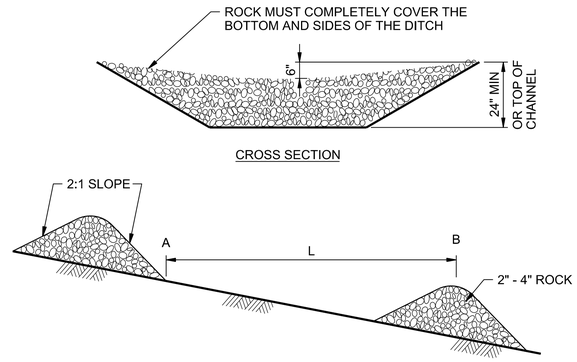
NOTES:

1. IF THERE IS A BERM AT THE TOP OF SLOPE, ANCHOR UPSLOPE OF THE BERM.
2. SLOPE SURFACE SHALL BE SMOOTH BEFORE PLACEMENT FOR PROPER SOIL CONTACT.
3. DO NOT STRETCH BLANKETS/MATTINGS TIGHT, ALLOW THE ROLLS TO MOLD TO ANY IRREGULARITIES.
4. STAPLING PATTERN AS PER MANUFACTURER'S RECOMMENDATIONS.
5. LIME, FERTILIZE AND SEED BEFORE INSTALLATION. PLANTING OF SHRUBS, TREES, ETC SHOULD OCCUR AFTER INSTALLATION.

ESC BLANKET ON SLOPE

NTS

3125-150



L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATIONS AT A MAXIMUM, CHECK DAMS SHOULD BE SPACED AT 50 FEET

DAM SPACING

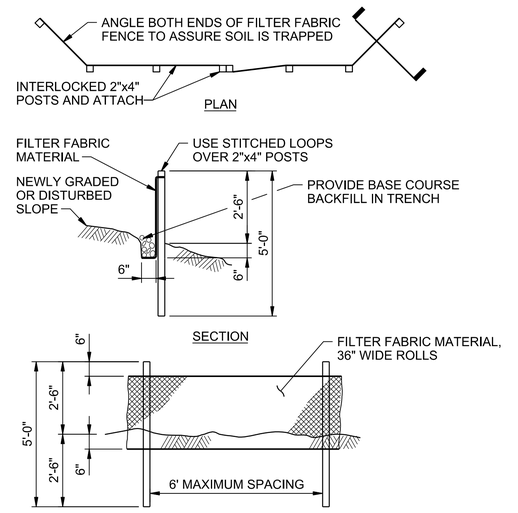
MAINTENANCE STANDARDS:

1. ANY SEDIMENT DEPOSITION OF MORE THAN 0.5 FEET SHALL BE REMOVED SO THAT THE CHANNEL IS RESTORED TO ITS DESIGN CAPACITY.
2. THE CHANNEL SHALL BE EXAMINED FOR SIGNS OF SCOURING AND EROSION OF THE BED AND BANKS. IF SCOURING OR EROSION HAS OCCURRED, AFFECTED AREAS SHALL BE PROTECTED BY RIP-RAP OR AN EROSION CONTROL BLANKET OR NET.

CHECK DAMS

NTS

3125-160



NOTES:

1. BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.
2. 2"x4" DOUGLAS FIR OR STEEL FENCE POSTS.
3. STITCHED LOOPS TO BE INSTALLED DOWNHILL SIDE OF SLOPE.
4. COMPACT ALL AREAS OF FILTER FABRIC TRENCH.

SEDIMENT FENCE

NTS

3125-165

REGISTERED PROFESSIONAL ENGINEER — 60202PE — OREGON — JULY 8, 2008 — MATTHEW JOHN BALDWIN — Digital Signature

EXP: 12-31-2023

NO.	DATE	DSGN	DR	CHK	APVD	BY	REVISION
		A SITTEL	B GYAOUROVA	M BALDWIN		B FULLER	

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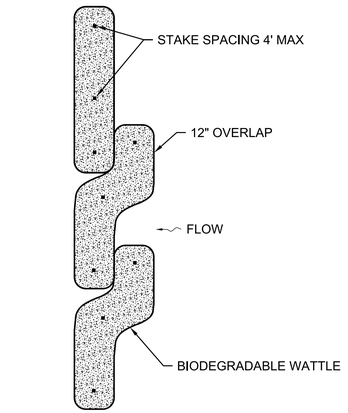
The Dalles, OR

STANDARD DETAILS
CIVIL
STANDARD DETAILS

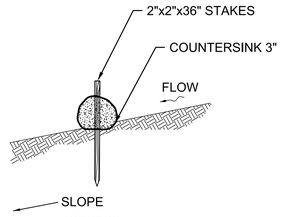
ISSUED FOR CONSTRUCTION

CONTRACT NO.: 2022-001
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	MARCH 2022
PROJ	D3504800
DWG	99-C-0002
SHEET	75 of 76



PLAN

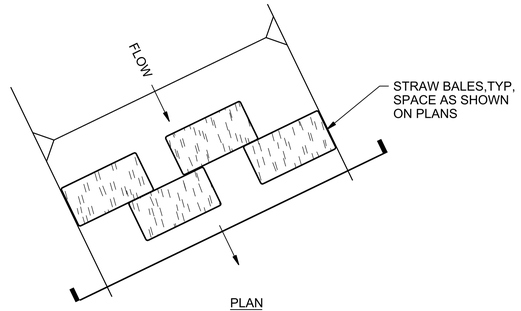


SECTION

SEDIMENT WATTLE

NTS

3125-166



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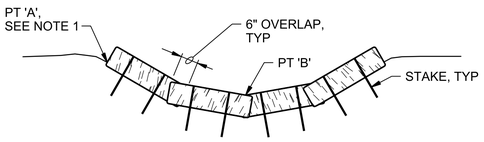


SECTION

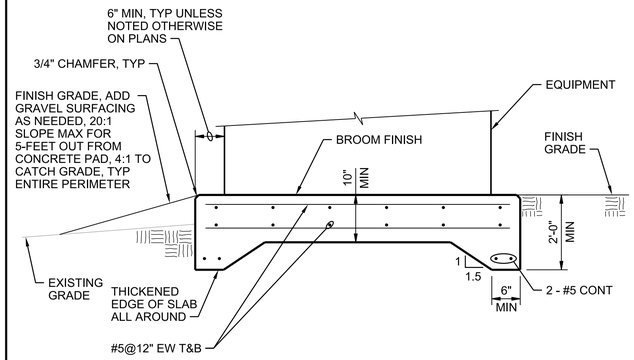
NOTES:

1. POINT 'A' MUST BE 6" MINIMUM HIGHER THAN PT 'B'.
2. STAKING OF BALES IS REQUIRED USING (2)2"x2"x3' LONG WOOD STAKES OR APPROVED EQUAL PER BALE.
3. DRIVE STAKES MINIMUM 12" INTO GROUND AND FLUSH WITH TOP OF BALES.
4. EMBED BALES MINIMUM OF 4" INTO GROUND SURFACE.
5. BIOFILTER BAGS TO BE USED, IF SPECIFIED.

STRAW BALES IN DITCHES

NTS

3125-170



TYPE 'H'

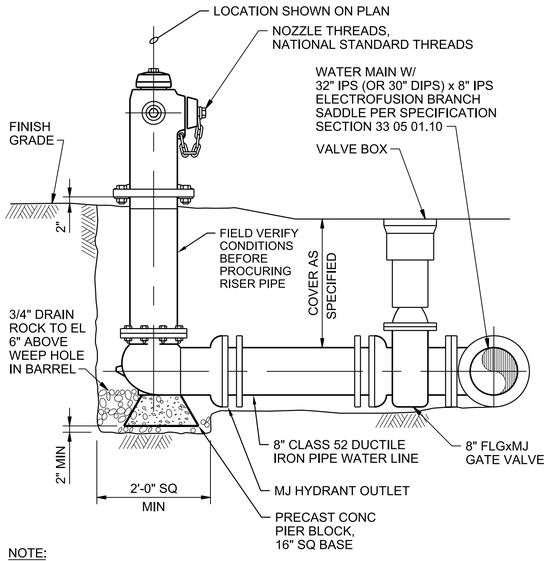
GENERAL NOTE:

PAD SIZE SHALL BE MINIMUM INDICATED OR AS SHOWN ON DRAWING 05-C-1202 OR AS INDICATED BY THE SIGN MANUFACTURER AND APPROVED BY THE ENGINEER.

CONCRETE EQUIPMENT PAD - TYPE 'H'

NTS

0330-056H



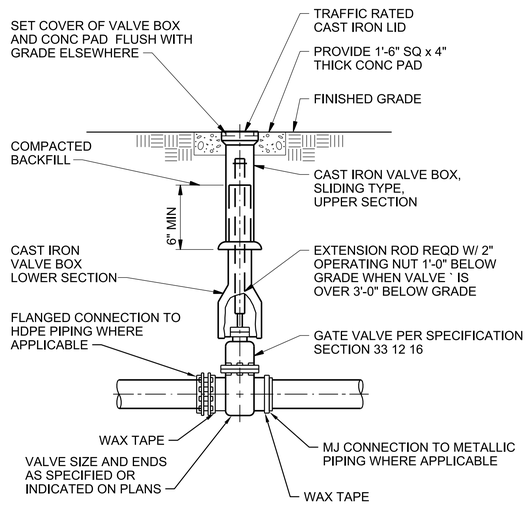
NOTE:

ALL JOINTS TO BE RESTRAINED.

FIRE HYDRANT

NTS

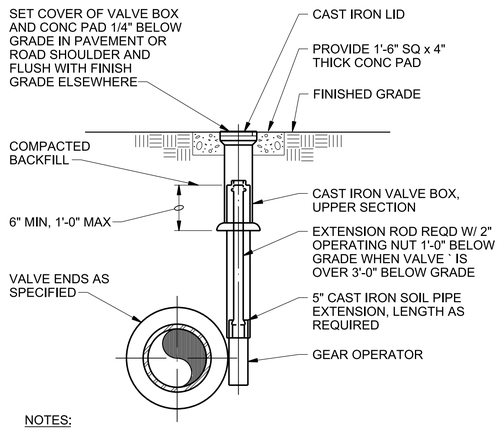
3312-770



BURIED GATE VALVE BOX

NTS

4027-640



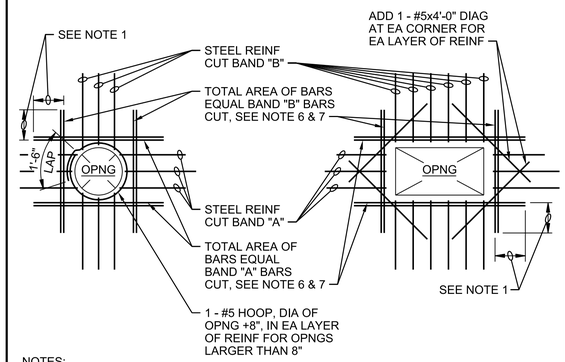
NOTES:

1. VALVE SHALL BE INSTALLED WITH THE SHAFT IN THE HORIZONTAL.
2. THE PLUG SHALL OPEN TO THE TOP OF THE PIPE.

BURIED PLUG VALVE BOX

NTS

4027-641



NOTES:

1. PROVIDE MINIMUM LAP, SEE GENERAL STRUCTURAL NOTES.
2. TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS OF BELOW GRADE AND HYDRAULIC STRUCTURES AND ALL STRUCTURAL CONCRETE SLABS UNLESS INDICATED OTHERWISE ON PLANS.
3. DO NOT WELD REINFORCEMENT TO PIPE SLEEVES AND INSERTS.
4. PROVIDE A MINIMUM OF 2 "A" BARS AND 2 "B" BARS EACH SIDE OF OPENING (1 EACH FACE), INCLUDING DOWELS AND CORNER BARS, TYPICAL.
5. FOR OPENINGS LARGER THAN 8'-0", REINFORCE SAME AS FOR 8'-0" OPENINGS.
6. SPACE AT 3 BAR DIAMETERS (OR 3" MINIMUM) ON CENTER. LOCATE HALF OF TOTAL AREA ON EACH SIDE OF OPENING.
7. AT OPENINGS WITHIN 12" OF AN INTERSECTING WALL OR SLAB, PROVIDE ONLY THE EXTRA REINFORCEMENT WHICH WILL FIT, AT THE BAR SPACING IN NOTE 6.

OPENING REINFORCEMENT

NTS

0330-001

REGISTERED PROFESSIONAL ENGINEER
60202PE
OREGON
JULY 8, 2014
JOHN BALDWIN MATTHEW
Digital Signature
EXP: 12-31-2023

NO.	DATE	DR	REVISION	CHK	APVD	BY
DSGN	A SITTEL	B GYAOUROVA		M BALDWIN	APVD	B FULLER

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CONTRACT NO.:	2022-001
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"	
DATE	MARCH 2022
PROJ	D3504800
DWG	99-C-0003
SHEET	76 of 76