

## Application for Waiver from Construction Standards for Public Water Systems

Water System Name	USFS Cloud Cap/Cooper Spur	PWSID	92634
Project or Facility	Cloud Cap Inn Spring Reconstruction	and Waterlines	County Hood
River			
Need for waiver iden	tified: Water System Survey	Date of Survey	

Construction standard requested to be waived: OAR 333-061-0050 (2)(b)(A)(ii)

As provided under OAR 333-061-0055, the Department may grant waivers from the construction standards prescribed by these rules:

- (a) When it is demonstrated to the satisfaction of the Department that strict compliance with the rule would be highly burdensome or impractical due to special conditions or causes; and
- (b) When the public or private interest in the granting of the waiver is found by the Department to clearly outweigh the interest of the application of uniform rules; and
- (c) When alternate measures are provided which, in the opinion of the Department, will provide adequate protection to the health and safety of the public including the ability to produce water which does not exceed the maximum contaminant levels listed in rule 333-061-0030.

Describe situation that conflicts with the standard.

The spring and spring box does not include a security fence to prevent access by animals or unauthorized personnel.

Describe why meeting the standard is highly burdensome or impractical.

We have concluded that a security fence would be unnecessary in this particular situation given the spring collection system and spring box will be buried. Additionally, the spring is adjacent to Mt Hood Trail #600 and a fence may draw more attention to the site.

Describe proposed alternate measure that provide adequate protection to public health and safety.

The spring collection system and spring box will be buried with the final grade providing greater than 3-feet of cover/backfill. The spring box design access includes a water tight lockable manhole cover to prevent water intrusion and unauthorize access, see Sheet C-3 in the attached design drawings.

Alex M. Bargmeyer
Contact Info:
alex.bargmeyer@murraysmith.us
Date: 2022.03.10 09.46:14-08'00'

Signature

Date

Name Alex M. Bargmeyer
Address 888 SW 5<sup>th</sup> Avenue, Suite 1170
City/State/Zip Portland OR, 97204
Telephone Number

Comments:

Attachments: 100% Design Drawings

OHA

Attach plans of proposed waiver request or additional supporting information and

- Email your regulator; or
- Email dws.planreview@dhsoha.state.or.us; or
- Mail:

Oregon Health Authority
Drinking Water Services #640
PO Box 14450
Portland, OR 97293-0450

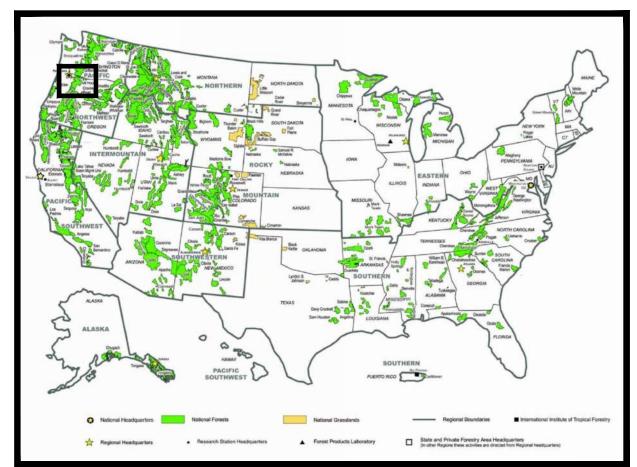
OHA Use Or	nly
Waiver ID 418-2022	
Entered into waiver database x	
	a waterproof locked springbox lid is an acceptable sing a fence in this situation.
After due consideration the above requested waiver from OAR 333-061-0050 is hereby:	rom the construction standards of
	ure inspections show signs of vandalism or amination, a fence may be required.
Kari Salis	3/18/22
Drinking Water Regional Manager Signature Oregon Health Authority	Date
Waiver database updated x	



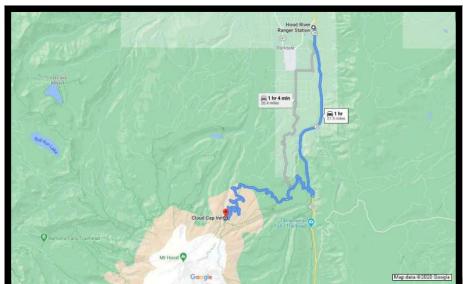
## United States Department of Agriculture Forest Service

(R06) PACIFIC NORTHWEST REGION
MOUNT HOOD NATIONAL FOREST
HOOD RIVER COUNTY
OREGON

# CLOUD CAP INN WATER SYSTEM RENOVATION



**PROJECT LOCATION** 



## **VICINITY MAP**

1	1.	Head east toward OR-35 S	
r+	2	Turn right onto OR-35 S	
r+	3.	Turn right onto Cooper Spur Rd	
4	4.	Turn left onto Cloud Cap Rd	
r	5.	Slight right to stay on Cloud Cap Rd Destination will be on the left	

TRAVEL DIRECTIONS:

	INDEX OF SHEETS	
SHEET	SHEET TITLE	DATE
G-1	COVER SHEET, INDEX OF SHEETS, AND VICINITY MAP	
G-2	ABBREVIATIONS, SYMBOLS, AND LEGEND	
G-3	GENERAL NOTES, EROSION CONTROL NOTES, AND KEY MAP	
C-1	SPRING SITE EXISTING CONDITIONS AND TEMPORARY EXCAVATION PLANS	
C-2	SPRING SITE PROPOSED IMPROVEMENTS PLAN	
C-3	SPRING SITE PROPOSED IMPROVEMENTS SECTIONS	
C-4	SPRING MAIN PLAN & PROFILE STA A1+00 TO A5+20	
C-5	SPRING MAIN PLAN & PROFILE STA A5+20 TO A9+40	
C-6	SPRING MAIN PLAN & PROFILE STA A9+40 TO A13+60	
C-7	SPRING MAIN PLAN & PROFILE STA A13+60 TO A17+80	
C-8	SPRING MAIN PLAN & PROFILE STA A17+80 TO A21+45	
C-9	CLOUD CAP MAIN PLAN & PROFILE STA B1+00 TO B2+65	
C-10	CIVIL DETAILS - 1	
C-11	CIVIL DETAILS - 2	
C-12	CIVIL DETAILS - 3	

#### RECOMMENDED BY:

FOREST ENGINEER	DATE	
DISTRICT RANGER	DATE	
FOREST SUPERVISOR	DATE	
RO FACILITIES PROGRAM MANAGER	DATE	

#### APPROVED:

DIRECTOR OF ENGINEERING

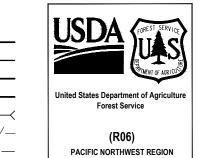
SHEET 01 OF 15

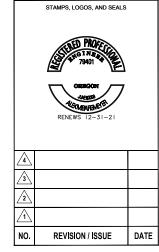
FAHRENHEIT NOT APPLICABLE FDN FOUNDATION NC NORMALLY CLOSED ABAN(D) ABANDON(ED) NOT IN CONTRACT NIC FIN FINISH(FD) AROVE ARV FIPT FEMALE IRON PIPE THREAD NO ASPHALTIC CONCRETE /NO. NORMALLY OPEN / NUMBER ADJ NOM **ADJUSTABLE** NOMINAL ADJACENT FLEXIBLE NORM NORMAL AFF ABOVE FINISHED FLOOR FLOW LINE NPT NTS NON-POTABLE AFG ABOVE FINISHED GRADE FLR FLOOR NOT TO SCALE ALIGN ALIGNMENT FEET / FOOT 0 TO 0 OUT TO OUT ALTERNATE FOOTING OC OD ANSI AMERICAN NATIONAL STANDARDS ON CENTER FUTURE OUTSIDE DIAMETER FXTR FIXTURE APPROX APPROXIMATE OF OVERFLOW / OUTSIDE FACE **APPVD APPROVED** OPNG AMERICAN PUBLIC WORKS APWAGAUGE **OPPOSITE** ASSOCIATION GAL GALV **GALLON** ORIG ORIGINAL AIR RELEASE VALVE **GALVANIZED** OVHD OVERHEAD AMERICAN SOCIETY OF CIVIL **ASCE** GND GROUND **ENGINEERS** GPD GALLONS PER DAY P&ID PROCESS & INSTRUMENTATION ASSN ASSOCIATION GALLONS PER HOUR ASSY ASSEMBLY GPM GALLONS PER MINUTE PLAIN END AMERICAN SOCIETY FOR TESTING ASTM PERF PERM GPS GALLONS PER SECOND PERFORATED & MATERIALS GRADE PERMANENT AUTO PERP AUTOMATIC GRADE LINE GR LN PERPENDICULAR AVERAGE PG GRTG GRATING PRESSURE GAUGE AWWA AMERICAN WATER WORKS GATE VALVE PROPERTY LINE / PLATE / PL ASSOCIATION GRAVEL PLASTIC PLBG PLUMBING BETW BETWEEN HDPE HIGH DENSITY POLYETHYLENE BACKFLOW PREVENTION DEVICE BFD HDR HEADER POLY POLYETHYLENE HDWE HARDWARE PRCST PRECAST BUTTERFLY VALVE HANGER PRFP PREPARATION BLDG BUILDING PRESS **PRESSURE** ВМ BENCHMARK / BEAM HORIZ HORIZONTAL PRKG PARKING BEST MANAGÉMENT PRACTICES BMP HIGH PRESSURE / HORSEPOWER PROP PROPERTY / PROPOSED RO RLOWOFF HPT HIGH POINT PRV PRESSURE REDUCING VALVE **BSMT** BASEMENT HOUR PUMP STATION BV BALL VALVE HVAC HEATING, VENTILATION, AIR PSIG POUNDS PER SQUARE INCH GAGE CONDITIONING PSL PSPT PIPE SLEEVE CARV COMBINATION AIR RELEASE VALVE HWL HIGH WATER LINE PIPE SLIPPORT CCI CF CLOUD CAP INN HIGHWAY PVC POLYVINYL CHLORIDE CUBIC FEET **HYDRANT PVMT PAVEMENT** CUBIC FEET PER MINUTE CFM **HYDR** HYDRAULIC POTABLE WATER CFS CUBIC FEET PER SECOND PWR POWER CG 1&:C INSTRUMENTATION & CONTROL CHECK VALVE IAW IN ACCORDANCE WITH QTY QUANTITY CIPC CAST IN PLACE CONCRETE INSIDE DIAMETER CENTER LINE INVERT ELEVATION CLG CELLING INSIDE FACE RAD RADIUS CND CONDUIT IMP\/T **IMPROVEMENT** REINFORCED CONCRETE CONTRACTING OFFICER / REINFORCED CONCRETE PIPE CO INCH RCP CLEANOUT INCLUDE(D)(ING) INCC RD ROAD / ROOF DRAIN СОМВ COMBINATION INFL INFLUENT RDCR REDUCER CONCRETE INJ INJECTION RFF REFERENCE CONN CONNECTION INSTALLATION / INSTALL INSTI REINF REINFORCE(D)(ING)(MENT) CONST CONSTRUCTION INSUL INSULATION RFP REPRESENTATIVE CONT CONTINUOUS / CONTINUATION INTER INTERCEPTOR REQ'D REQUIRED CONTR CONTRACT(OR) RESTR RESTRAINED COORD COORDINATE INV INVERT RM ROOM COP COPPER IRON ROD RND ROUND RST RT COR CONTRACTING OFFICER'S REINFORCED STEEL JOINT REPRESENTATIVE RIGHT CP JUNC JUNCTION CONTROL POINT CR CRUSHED ROCK SAN SANITARY SAIN SCHED SD CTR KVA KILOVOLT AMPERE CENTER SCHEDULE KW KILOWATT CU STORM DRAIN CV CONTROL VALVE Ι Δ\/ I AVATORY SDL SADDLE POUND CW CLOCKWISE / COLD WATER LB SECT **SECTION** LINEAR FOOT SHT SIM SLP CY CUBIC YARDS SHEET LIN LINEAL / LINEAR SIMIL AR LOCATION DRAIN SLOPE DC DEFL DIRECT CURRENT LONGITUDINAL SLV SLEEVE LOW PRESSURE SOLN DEFLECTION SOLUTION DET IPT LOW POINT **SPECIAL** LRG DUCTILE IRON LARGE SPEC(S) SPECIFICATION(S) DIA DIAMETER LS LONG SLEEVE / LUMP SUM SPG SPACING DIM DIR DIMENSION ΙT LEFT SPRT SUPPORT SQ FT SQ IN SQ YD SQ YD DIRECTION LEVEL LVL SOUARE LWL DIST DISTANCE LOW WATER LINE SQUARE FOOT DN DOWN SQUARE INCH DR DRIVE / DRAIN MAN MANUAL SQUARE YARD DWG MAT MATERIAL DRAWING SANITARY SEWER SSC SST STA STD STL MAX MAXIMITM SNOW SHOE CABIN MOTOR CONTROL CENTER MCC STAINLESS STEEL ELEVATION MCP MASTER CONTROL PANEL STATION STANDARD MECH MECHANICAL ELB FLROW ELECTRICAL STEEL ENCL ENCLOSURE MFR MANUFACTURER STM STORMWATER EDGE OF PAVEMENT MIN MINIMUM STORAGE MALE IRON PIPE THREAD MIPT STRAIGHT MISC MISCELL ANEOUS **EQUIP** EQUIPMENT STRUCTURE / STRUCTURAL EROSION AND SEDIMENT CONTROL MONUMENT / MONOLITHIC ESC EXC MON SUCT SUCTION FXCAVATE MOT MOTOR SOLENOID VALVE **EXIST EXISTING** MSL MEAN SEAL LEVEL SWGR SWITCH GEAR **EXPANSION** SYSTEM EXTERIOR

ТВМ TEMPORARY BENCH MARK TOP OF CONCRETE / TOP OF TC CURB TDH TOTAL DYNAMIC HEAD TEMPERATURE / TEMPORARY TEME THK THICKNESS THRD THREAD(ED) THRU THROUGH TEST PIT / TOP OF PAVEMENT / TP TURNING POINT TRANS TRANSITION TOP OF WALL TYP **TYPICAL** UG UNDERGROUND UH UNIT HEATER UN UNION UON UNLESS OTHERWISE NOTED USGS UNITED STATES GEOLOGIC SURVEY VAC VACUÚM VACUUM BREAKER VB VBOX VALVE BOX VERT VERTICAL VARIABLE FREQUENCY DRIVE VFD VAULT VOL VOLUME WATER W W/ WITH W/0 WITHOUT WRP WHITE BARK PINE WD WOOD WATER HEATER WH WM WATER METER WORKING POINT / WATERPROOFING WP WEIGHT WTRT WATERTIGHT X SECT CROSS SECTION YR YEAR ΖN ZINC

## TOPOGRAPHIC LEGEND

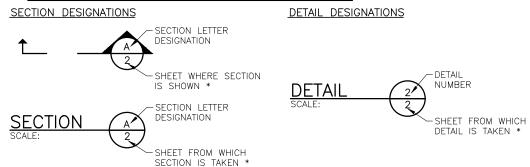
101 00	EXISTING	PROPOSED
WATERLINE	— — 10"W— —	12"DI W
ELECTRICITY	— — — E— — —	——Е——
SANITARY SEWER LINE	— — 8"SS— —	8"SS
STORM DRAIN	— —8"SD— —	8"SD
CULVERT	>— 18"D— —	>18"D≺
ABANDON PIPE		<del></del>
DRAINAGE DITCH		
BARBWIRE FENCE	X	X
CHAIN LINK FENCE	<b>—</b>	$\multimap$
TEMPORARY SILT FENCE		
EDGE OF PAVEMENT/AC	······	
EDGE OF GRAVEL		
CURB		
SIDEWALK	S/W	a" 4 · · · · ·
STRUCTURE OR FACILITY		
CONTOUR MINOR		
CONTOUR MAJOR	665—	665—
MANHOLE	0	
CLEAN-OUT	0	0
CATCH BASIN/FIELD INLET		
THRUST BLOCK	Δ	<b>A</b>
VALVE	$\otimes$	•
AIR INJECTION ASSEMBLY	—	<b>⊢</b> ■
BLOW-OFF ASSEMBLY		
AIR RELEASE ASSEMBLY		$\vdash$
PULL BOX/JUNCTION BOX	———	-
UTILITY POLE	-0-	•
GUY WIRE	←	
SIGN	<del></del>	<del>- v-</del>
BENCHMARK	<b>*</b>	
GEOTECHNICAL BORING	lacktriangle	
SURVEY CONTROL POINT		
TREE - WHITE BARK PINE	AMAZ Munit	ANNE STATE
TREE TO BE REMOVED	·	×
SURFACE ELEVATION	+ 176.63	+ 176.63







## SECTION AND DETAIL DESIGNATIONS



\* NOTE: IF PLAN AND SECTION FOR DETAIL CALL—OUT AND DETAIL ARE SHOWN ON THE SAME DRAWING, DRAWING NUMBER IS REPLACED WITH A DASH.

ABBREVIATIONS,
SYMBOLS, AND LEGEND

03/24/2022 ARCHIV FS0905		E NO. 523_R102013_L1-002.0	dwg
DESIGNER TMS		DRAWING SHEET NO.	
DRAWN TMS		G-2	
CHECKED AMB			
PROJECT NO. 19-2622		SHEET <b>02</b> OF <b>15</b>	

### **GENERAL NOTES**

- 1. UNLESS NOTED ON THE PLANS OR SPECIFIED OTHERWISE, ALL CONSTRUCTION AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE PLANS, PROJECT SPECIFICATIONS, MOST RECENT VERSION OF USDA FOREST SERVICE DESIGN STANDARDS, OREGON APWA STANDARD SPECIFICATIONS, AND OREGON ADMINISTRATION RULES (OAR), CHAPTER 333.
- 2. CONNECTIONS TO EXISTING WATERLINES MAY REQUIRE TEMPORARY SHUTDOWNS OF EXISTING FACILITIES. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE AFFECTED UTILITY AND REQUEST SHUTDOWNS A MINIMUM OF 5 WORKING DAYS IN ADVANCE OF DESIRED TIMING OF CONNECTION WORK. THE CONTRACTOR SHALL COORDINATE TEMPORARY SHUTDOWNS OF THE EXISTING FACILITIES WITH THE CO A MINIMUM OF 14 DAYS IN ADVANCE.
- 3. CONTRACTOR SHALL OBTAIN ALL NECESSARY LOCAL, COUNTY, STATE, AND UTILITY CONSTRUCTION PERMITS NOT OBTAINED BY THE OWNER, AND SHALL CONTACT EACH PERMITTING AGENCY AT LEAST TWO (2) BUSINESS DAYS PRIOR TO STARTING WORK. CONTRACTOR SHALL OBTAIN ALL REQUIRED LICENSES BEFORE STARTING CONSTRUCTION.
- 4. CONTRACTOR SHALL FIELD VERIFY DEPTHS OF EXISTING UTILITIES TO IDENTIFY POTENTIAL CONFLICTS AND AS REQUIRED FOR CONNECTIONS TO EXISTING SYSTEMS.
- 5. THE CONTRACTOR SHALL VERIFY LOCATIONS, ELEVATIONS, TYPE AND SIZES OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTING NEW PIPING/CONDUITS AND SHALL ADJUST NEW PIPING/CONDUITS AS REQUIRED. CONTRACTOR SHALL NOTIFY CO IMMEDIATELY OF ANY CONFLICTS NOT SHOWN ON THE PLANS AND SHALL KEEP EXISTING UTILITIES IN SERVICE AND PROTECT THEM DURING CONSTRUCTION. WHERE INTERRUPTION OF EXISTING FACILITIES IS REQUIRED, CONTRACTOR SHALL PROVIDE A MINIMUM 1 WEEK NOTICE TO CO AND THE AFFECTED UTILITY. CONTRACTOR SHALL ARRANGE FOR THE RELOCATION OF ANY IN CONFLICT WITH THE PROPOSED CONSTRUCTION.
- 6. UTILITIES OR INTERFERING PORTIONS OF UTILITIES THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK. THE CONTRACTOR SHALL PLUG THE REMAINING EXPOSED ENDS OF ABANDONED UTILITIES, UNLESS OTHERWISE REQUIRED BY THE CO, OR AS IDENTIFIED ON THE PLANS. SEE SECTION 33 11 50, EXISTING PIPE ABANDONMENT, FOR FURTHER DETAILS
- 7. CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION (ANY TIME OF YEAR) PER THE REQUIREMENTS OF THE APPROVED PERMIT AND THE OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY.
- 8. CONSTRUCTION SHALL BE CONFINED TO THE RIGHT-OF-WAY, EASEMENTS, OR OTHER AREAS AS SHOWN ON THE PLANS AND APPROVED FOR CONSTRUCTION. WORK SHALL NOT ENCROACH BEYOND THE AREAS SHOWN ON THE PLANS WITHOUT PRIOR APPROVAL BY THE CO.
- 9. CONTRACTOR SHALL KEEP AND MAINTAIN A CURRENT SET OF DRAWINGS ON SITE. THE CONTRACTOR SHALL PROVIDE COMPLETE "AS CONSTRUCTED" DRAWINGS AFTER FINAL COMPLETION INDICATING ALL CHANGES IN GRADE, ALIGNMENT, FITTINGS AND MATERIALS INSTALLED AND ANY OTHER UTILITIES OR OBSTACLES NOT SO INDICATED ON THESE PLANS.
- 10. A COPY OF THE CONTRACTOR'S CERTIFICATE OF INSURANCE SHALL BE AVAILABLE AT THE WORK AREA AT ALL TIMES.
- 11. CONTRACTOR SHALL NOTIFY THE CO 48 HOURS BEFORE STARTING CONSTRUCTION, AND 24 HOURS BEFORE RESUMING WORK AFTER SHUTDOWNS EXCEPT FOR NORMAL RESUMPTION OF WORK FOLLOWING SATURDAYS, SUNDAYS, OR HOLIDAYS. CONTRACTOR SHALL NOTIFY THE CO & OWNER A MINIMUM OF 48 HOURS PRIOR TO ANY TESTING OR REQUIRED INSPECTION.
- 12. ANY ALTERATION OR VARIANCE FROM THESE PLANS, EXCEPT MINOR FIELD ADJUSTMENT NEEDED TO MEET EXISTING FIELD CONDITIONS, SHALL FIRST BE APPROVED BY THE CO. ANY ALTERATIONS OR VARIANCE FROM THESE PLANS SHALL BE DOCUMENTED ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE CO. ANY PROPOSED CHANGES IN CONSTRUCTION PLANS MUST BE SUBMITTED IN WRITING AND APPROVED BY CO PRIOR TO COMMENCING WORK.

- 13. NO UNDERGROUND WORK SHALL BE "BURIED" UNTIL INSPECTED AND APPROVED BY THE CO.
- 14. THE CO MAY, AT THEIR DISCRETION, REQUIRE TESTS AND/OR REPORTS FROM THE CONTRACTOR TO VALIDATE CLAIMS OF MATERIAL OR CONSTRUCTION ADEQUACY/COMPLIANCE. SUCH TEST/REPORTS SHALL BE PROVIDED AT THE CONTRACTOR'S EXPENSE
- 15. CONTRACTOR SHALL PROTECT ALL PROPERTY CORNERS, SURVEY MONUMENTS AND CONTROL POINTS. SURVEY MONUMENTS OF THIS TYPE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED AT CONTRACTOR'S EXPENSE, WITH APPROPRIATE SURVEYS FILED WITH THE COUNTY SURVEYOR.
- 16. THE CONTRACTOR SHALL DISPOSE OF ALL REMOVED OR REPLACED MATERIAL AND EQUIPMENT IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS, EXCEPT THOSE ITEMS DESIGNATED BY THE CO FOR SALVAGING. SALVAGED ITEMS SHALL REMAIN THE PROPERTY OF THE CO, AND SHALL BE CAREFULLY REMOVED AND STORED, BY THE CO, AS DIRECTED
- 17. ALL PLANTERS, LANDSCAPING, STRUCTURES, LOTS, SWALES, DITCHES, CURBS, SPEED BUMPS, FENCES, WALLS, MAILBOXES, SIGNS, POLES, GUY WIRES, PIPING, AND UTILITIES DISTURBED DURING CONSTRUCTION TO BE RESTORED TO EXISTING CONDITION UNLESS OTHERWISE SPECIFIED. SUCH REPAIR SHALL BE CONSIDERED INCIDENTAL.
- 18. ALL CONCRETE SHALL BE A MINIMUM OF 3000 PSI STRENGTH, UNLESS OTHERWISE SPECIFIED
- 19. FIELD SURVEYS FOR WESTERN BUMBLE BEES/SUCKLEY CUCKOO BUMBLE BEES WILL BE REQUIRED. SEE SECTION 31 10 00, SITE CLEARING FOR FURTHER DETAILS.
- 20. IF A RAPTOR NEST IS FOUND, NOTIFY THE CO. SEE SECTION 31 10 00, SITE CLEARING FOR FURTHER DETAILS.
- 21. WHITE BARK PINES ARE TO BE PROTECTED FROM ALL CONSTRUCTION ACTIVITIES. SEE SECTION 01 56 39, TEMPORARY TREE AND PLANT PROTECTION FOR FURTHER DETAILS.
- 22. ALL EQUIPMENT SHALL BE FREE OF SOIL, VEGETATIVE MATTER, OR OTHER DEBRIS THAT COULD CONTAIN OR HOLD SEEDS PRIOR TO ENTERING NATIONAL FOREST LANDS. CONTRACTOR SHALL IMPLEMENT CLEANING AND INSPECTION PROCEDURES THAT MINIMIZE THE INTRODUCTION AND SPREAD OF INVASIVE PLANTS.
- 23. EQUIPMENT INSPECTION MUST BE COORDINATED WITH CO BEFORE ENTRY INTO NATIONAL FOREST LANDS.

### **EROSION & SEDIMENT CONTROL NOTES**

- 1. PHASE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION.
- 2. 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.
- 3. PRESERVE/SALVAGE EXISTING VEGETATION AS MUCH AS POSSIBLE AND REUSE MULCH, TOPSOIL, AND SALVAGED PLANTS TO REVEGETATE DISTURBED AREAS. REFER TO SECTION 32 91 21 FINISH GRADING AND SEEDING FOR DETAILS ON SEEDING AND MULCHING OF DISTURBED AREAS.
- 4. INSTALL PERIMETER SEDIMENT CONTROL PRIOR TO LAND DISTURBANCE.
- 5. CONTROL BOTH PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND DOWNSTREAM CHANNELS AND STREAMBANKS.

- 6. ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS
- 7. 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.
- 8. WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE.
- 9. CONTROL PROHIBITED DISCHARGES FROM LEAVING THE CONSTRUCTION SITE, I.E., CONCRETE WASH-OUT, WASTEWATER FROM CLEAN OUT OF STUCCO, PAINT AND CURING COMPOUNDS.
- 10. 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.
- 11. 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.
- 12. USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL.
- 13. TEMPORARILY STABILIZE SOILS AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT SOILS ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR.
- 14. 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.
- 15. CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND BARE GROUND ACTIVITIES DURING WET WEATHER.
- 16. 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 DIVISION OF STATE LANDS REQUIRED TIMEFRAME.
- 17. THE INTENTIONAL WASHING OF SEDIMENT INTO DRAINAGE WAYS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS.
- 18. THE ENTIRE SITE MUST BE TEMPORARILY STABILIZED USING VEGETATION OR A HEAVY MULCH LAYER, TEMPORARY SEEDING, OR OTHER METHOD SHOULD ALL CONSTRUCTION ACTIVITIES CEASE FOR 30 DAYS OR MORE.
- 19. 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.
- 20. 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 DOING SO CONFLICTS WITH LOCAL REQUIREMENTS.



United States Department of Agriculture Forest Service

(R06)
PACIFIC NORTHWEST REGION

STAMPS, LOGOS, AND SEALS



<u></u>			
1-			
/2	7		
$\sqrt{3}$	7		
<u> </u>	7		

PROJECT NAME

CLOUD CAP INN WATER SYSTEM RENOVATION

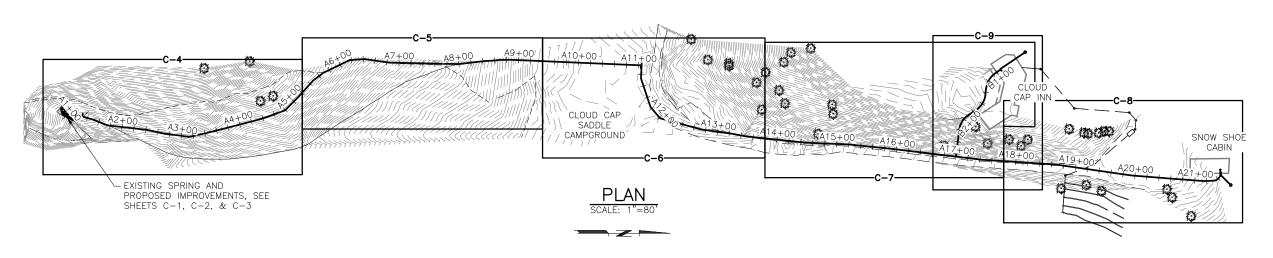
MOUNT HOOD NATIONAL FOREST

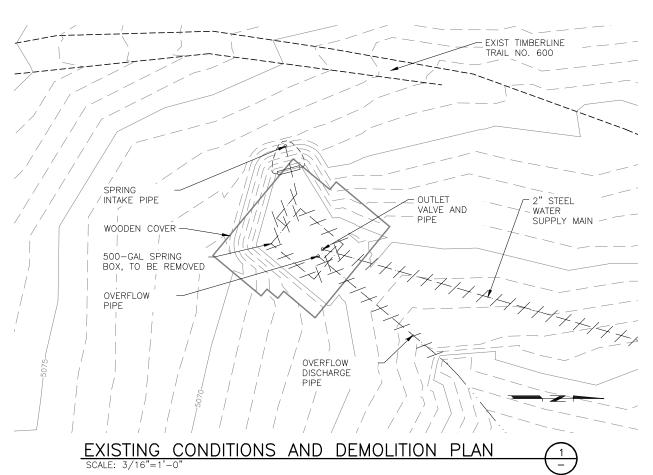
HOOD RIVER RANGER DISTRICT

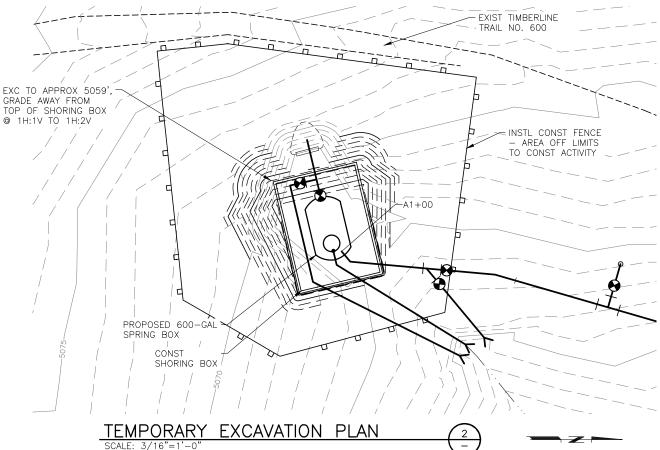
DRAWING TITLE

GENERAL NOTES, EROSION CONTROL NOTES, AND KEY MAP

03/24/2022	FS0905	E NO. 523_R102013_L1-002.dwg
DESIGNER TMS		DRAWING SHEET NO.
DRAWN TMS		<b>G-</b> 3
CHECKED AMB		
PROJECT NO. 19-262	2	SHEET 03 OF 15







#### CONCRETE ANTI-SEEPAGE WALL:

- 1. ALL CONCRETE SHALL BE HARD ROCK CONCRETE MEETING REQUIREMENTS OF ACI-301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". MIX PROPORTIONS SHALL BE PER ACI-301.
- 2. STRUCTURAL CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:

TYPE	f'c	SLUMP	w/c	AIR
WALLS	4,000 psi	1"-5"	0.45	5%

- 3. COLD WEATHER PLACEMENT SHALL CONFORM TO ACI-306. HOT WEATHER PLACEMENT SHALL CONFORM TO ACI-305. MECHANICALLY VIBRATE ALL FORMED CONCRETE. DO NOT OVER-VIBRATE. PLACE CONCRETE MONOLITHICALLY BETWEEN CONSTRUCTION OR CONTROL JOINTS. PROTECT ALL CONCRETE FROM PREMATURE DRYING.
- 4. SLUMP LIMITS MAY BE INCREASED BY ADDITION OF ADMIXTURES PROVIDED THAT THE WATER/CEMENT RATIO OF THE ORIGINAL MIX DESIGN IS NOT EXCEEDED. WATER REDUCING ADMIXTURE SHALL BE IN CONFORMANCE WITH ASTM C494, USED IN CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS. SUBMIT ADMIXTURES TO ENGINEER FOR REVIEW PRIOR TO
- 5. CEMENT SHALL BE TYPE I OR II IN CONFORMANCE WITH ASTM C150. AGGREGATES SHALL BE IN CONFORMANCE WITH ASTM C33 AND USE CRUSHED (NOT ROUND) GRAVEL OR STONE. COARSE AGGREGATES SHALL NOT EXCEED 3/4". WATER SHALL BE CLEAN AND POTABLE.
- 6. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. GRADE 40 MAY BE USED FOR #3 AND SMALLER TIES AND STIRRUPS. DETAIL AND PLACE ACCORDING TO ACI MANUAL SP-66.
- 7. UNLESS OTHERWISE NOTED, MINIMUM COVER SHALL BE 1½" FOR #5 AND SMALLER BARS, 2" FOR #6 AND LARGER BARS, AND 3" WHEN POURED AGAINST EARTH. SUPPORT REINFORCEMENT WITH APPROVED CHAIRS, SPACERS, OR TIES.
- 8. PROVIDE MINIMUM 48 BAR DIAMETERS AT SPLICES. NO MORE THAN 50% OF REINFORCING SHALL BE SPLICED AT ANY LOCATION. UNLESS OTHERWISE NOTED, BEND ALL HORIZONTAL REINFORCING A MINIMUM OF 2'-0" AT CORNERS AND WALL/FOOTING INTERSECTIONS WITH MINIMUM EMBEDMENT BEYOND INTERFACE PER DEVELOPMENT LENGTH SPECIFIED IN ACI-318.
- 9. FORMWORK SHALL BE IN ACCORDANCE WITH ACI-347 "GUIDE TO FORMWORK FOR CONCRETE". FORMS SHALL BE DESIGNED BY THE CONTRACTOR. BRACING SHALL BE PROVIDED AS REQUIRED OR UNTIL THE CONCRETE HAS REACHED ITS SPECIFIED 28-DAY STRENGTH. ALL SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FORMWORK, SUPPORTS, AND SHORING SHALL PROVIDE FINISHED CONCRETE SURFACES AT ALL FACES: LEVEL, PLUMB, AND TRUE TO DIMENSIONS AND ELEVATIONS SHOWN IN THE DRAWINGS.



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PACIFIC NORTHWEST REGION

STAMPS, LOGOS, AND SEALS



NO.	REVISION / ISSUE	DATE
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PROJECT NAME

CLOUD CAP INN WATER SYSTEM RENOVATION

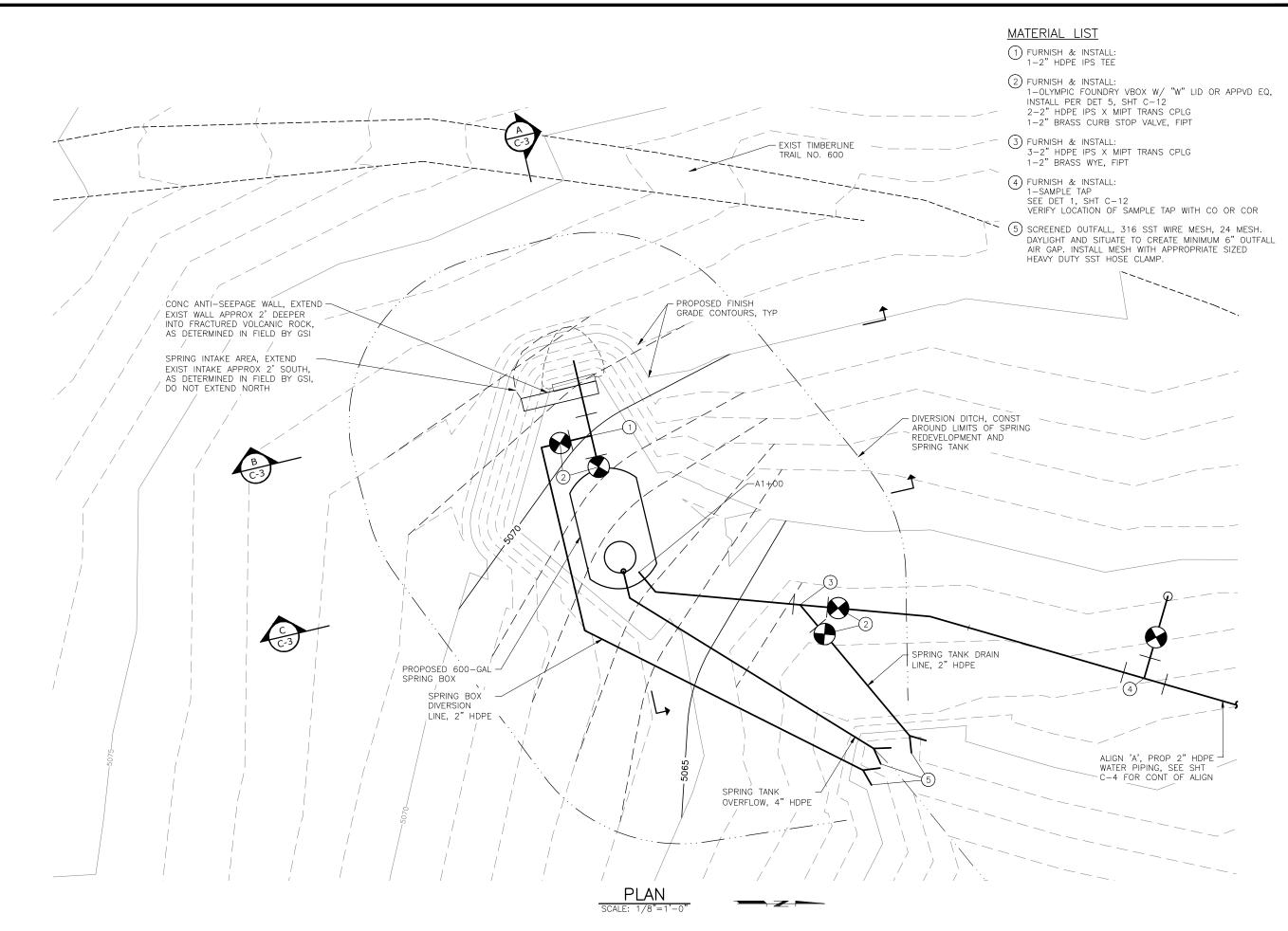
MOUNT HOOD NATIONAL FOREST

HOOD RIVER RANGER DISTRICT

DRAWING TITLE

SPRING SITE EXISTING CONDITIONS AND TEMPORARY EXCAVATION PLANS

03/24/2022 ARCHIV FS0905		E NO. 523_R102013_L1-002.dw
DESIGNER TMS		DRAWING SHEET NO.
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PROJECT NO. 19-262	2	SHEET <b>04</b> OF <b>15</b>





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PACIFIC NORTHWEST REGION

STAMPS, LOGOS, AND SEALS



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CLOUD CAP INN WATER SYSTEM RENOVATION

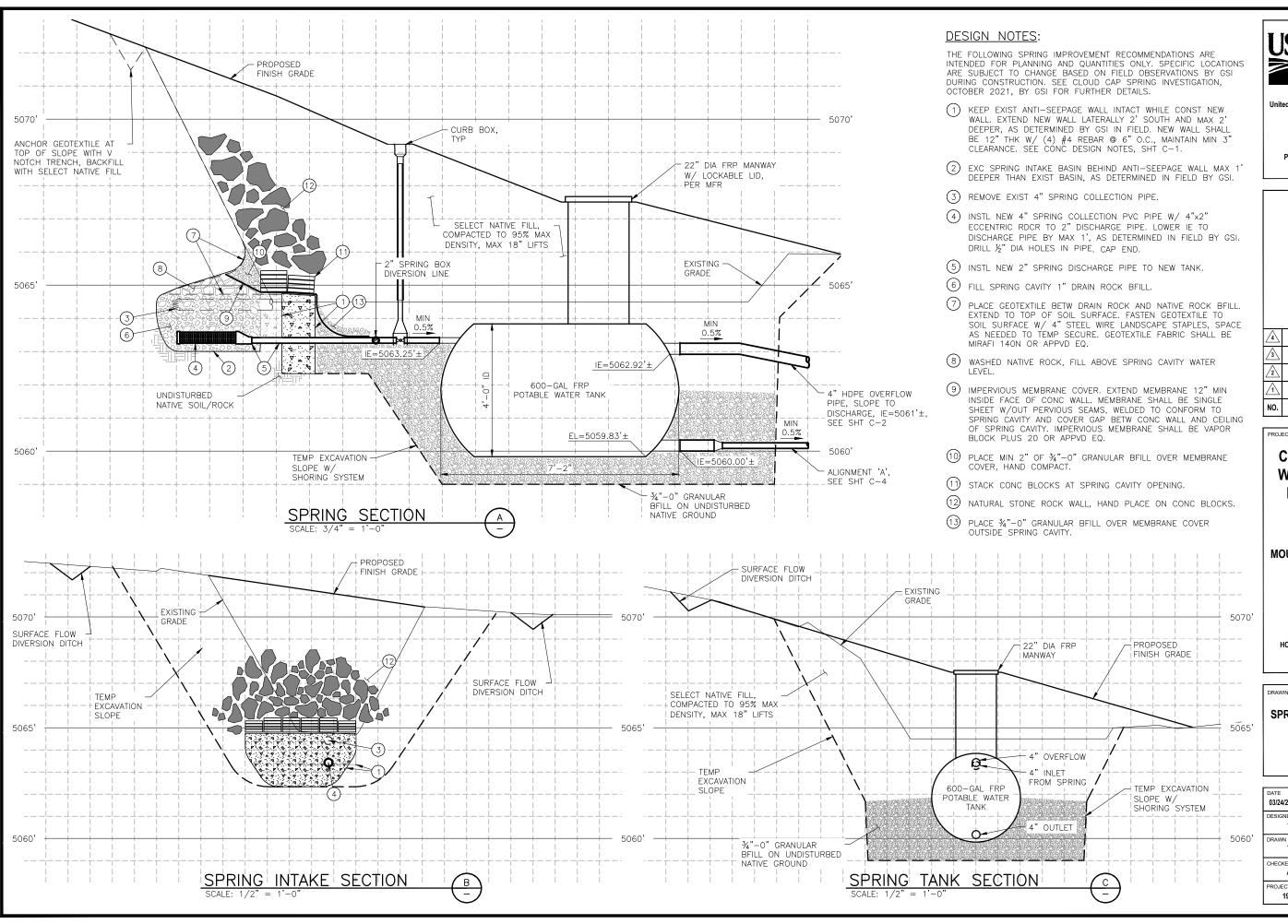
MOUNT HOOD NATIONAL FOREST

HOOD RIVER RANGER DISTRICT

DRAWING TITLE

SPRING SITE PROPOSED IMPROVEMENTS PLAN

DATE 03/24/2022	FS0905	E NO. 523_R102013_L1-002.dwg
DESIGNER TMS		DRAWING SHEET NO.
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(R06) PACIFIC NORTHWEST REGION

STAMPS, LOGOS, AND SEALS



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PROJECT NAME

**CLOUD CAP INN WATER SYSTEM** RENOVATION

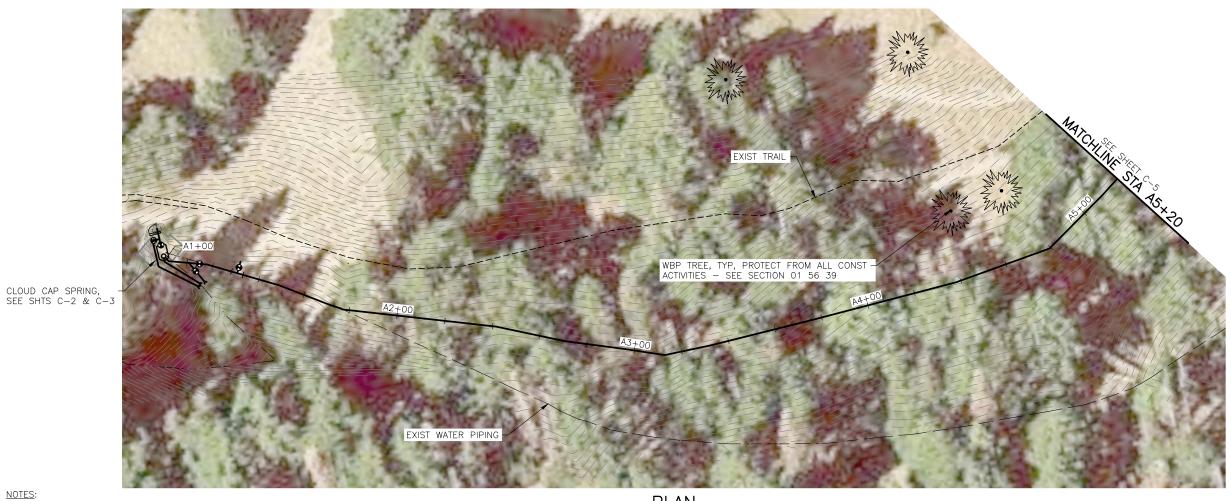
MOUNT HOOD NATIONAL **FOREST** 

HOOD RIVER RANGER DISTRICT

DRAWING TITLE

**SPRING SITE PROPOSED IMPROVEMENTS** SECTIONS

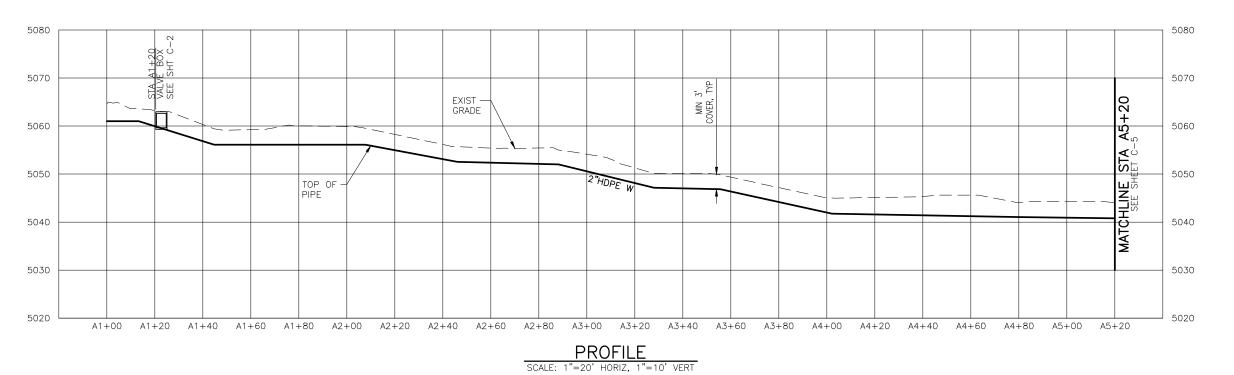
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PROJECT NO. 19-262	2	SHEET <b>06</b> OF <b>15</b>



NOTES:

1. PROPOSED WATER PIPING SHALL BE INSTALLED WITH A MINIMUM COVER OF 3'. THE ACTUAL DEPTH SHOULD BE ADJUSTED IN THE FIELD AND APPROVED BY THE CO TO PROVIDE FOR SMOOTH GRADIENTS THROUGHOUT THE PIPELINE AND SUCH THAT NO LOCALIZED LOW POINTS OR HIGH POINTS ARE CREATED.







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STAMPS, LOGOS, AND SEALS



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PROJECT NAME

## **CLOUD CAP INN WATER SYSTEM** RENOVATION

MOUNT HOOD NATIONAL **FOREST** 

HOOD RIVER RANGER DISTRICT

DRAWING TITLE

**SPRING MAIN PLAN &** PROFILE STA A1+00 TO A5+20

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PROJECT NO. 19-2622	2	SHEET 07	OF <b>15</b>



5050 5050 5040 5040 GRADE 5030 5030 TOP OF PIPE MER, 5020 5020 STA --- III 5010 5010 5000 5000 4990 4990 4980 4980 4970 4970 A7+20 A7+40 A7+60 A7+80 A8+00 A8+20 A8+40 A8+60 A8+80 A9+00 A9+20 A9+40 A5+20 A5+40 A5+60 A5+80 A6+00 A6+20 A6+40 A6+60 A6+80 A7+00

PROFILE

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

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PACIFIC NORTHWEST REGION

STAMPS, LOGOS, AND SEALS



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PROJECT NAME

# CLOUD CAP INN WATER SYSTEM RENOVATION

MOUNT HOOD NATIONAL FOREST

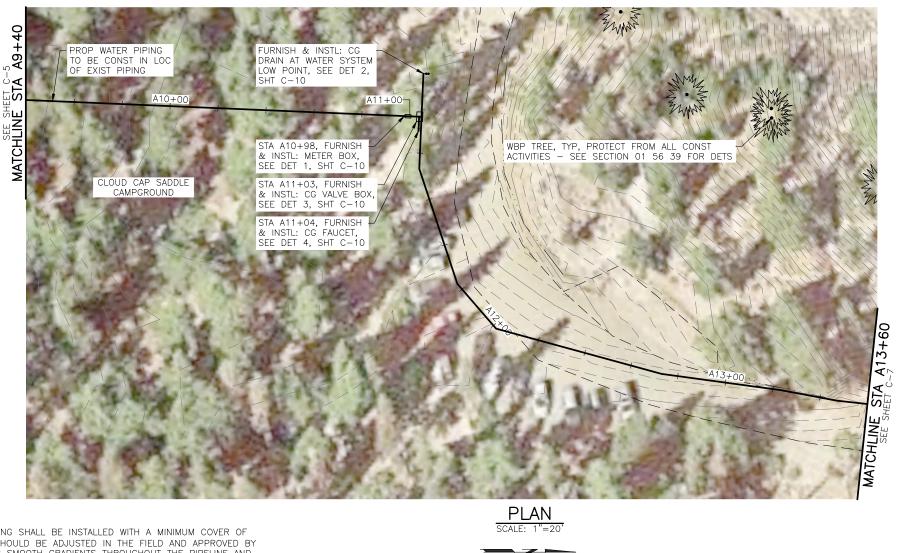
HOOD RIVER RANGER DISTRICT

DRAWING TITLE

SPRING MAIN PLAN & PROFILE STA A5+20 TO A9+40

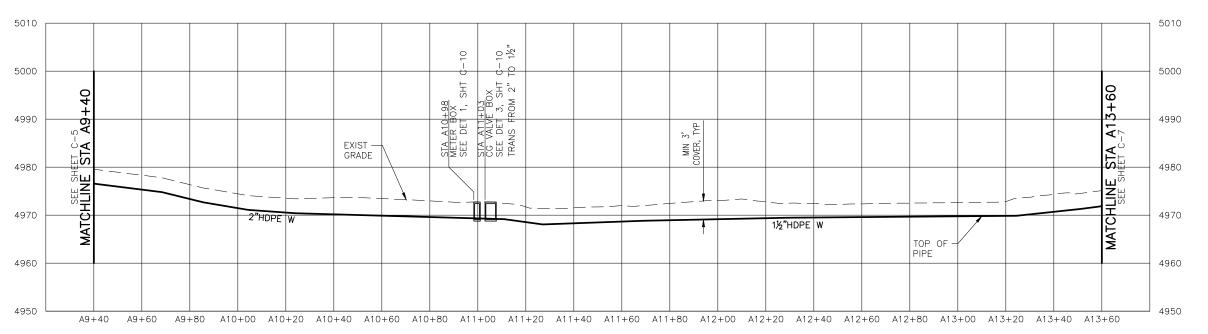
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NOTES:

1. PROPOSED WATER PIPING SHALL BE INSTALLED WITH A MINIMUM COVER OF 3'. THE ACTUAL DEPTH SHOULD BE ADJUSTED IN THE FIELD AND APPROVED BY THE CO TO PROVIDE FOR SMOOTH GRADIENTS THROUGHOUT THE PIPELINE AND SUCH THAT NO LOCALIZED LOW POINTS OR HIGH POINTS ARE CREATED.



PROFILE

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



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STAMPS, LOGOS, AND SEALS



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PROJECT NAME

# CLOUD CAP INN WATER SYSTEM RENOVATION

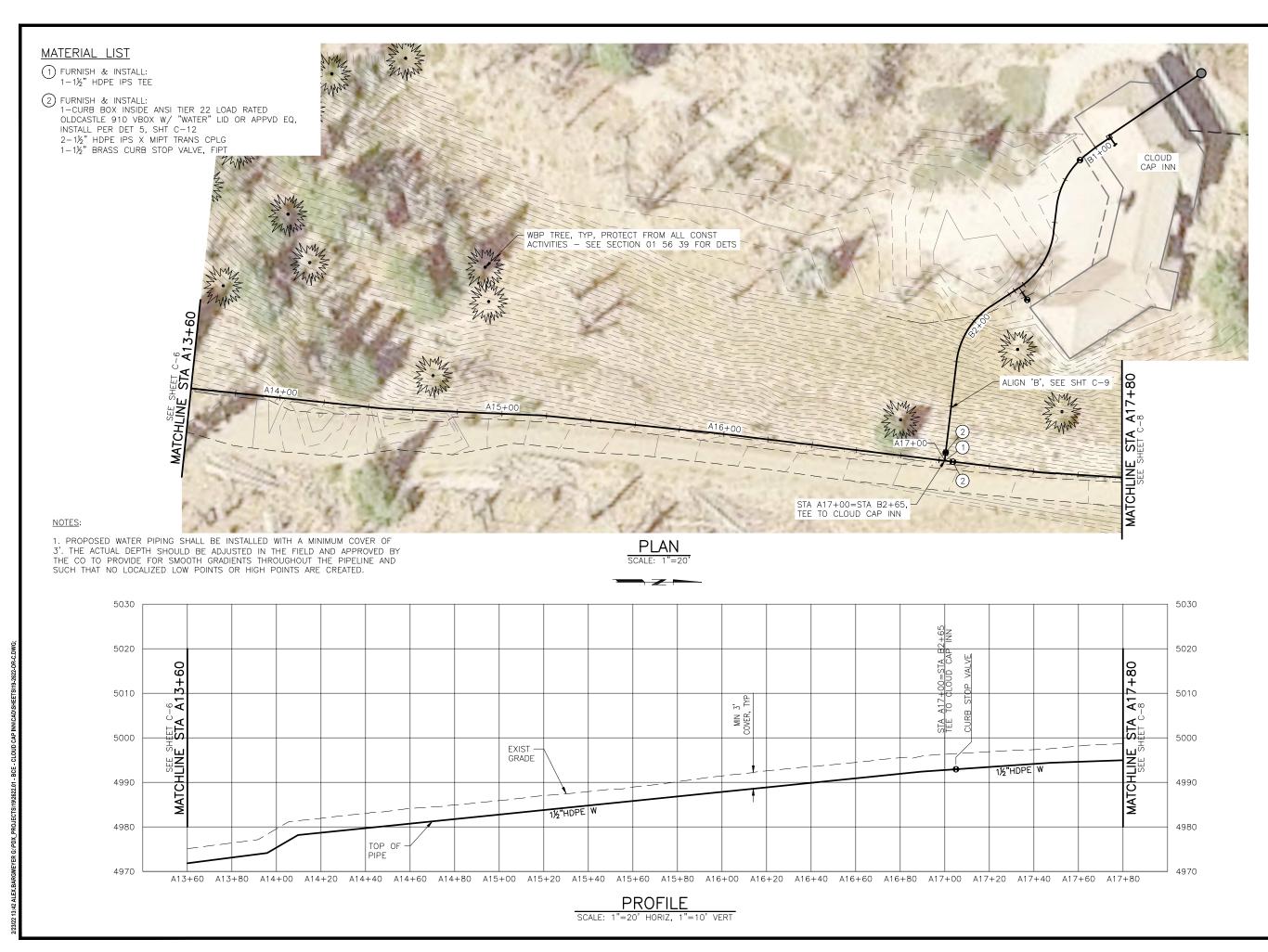
MOUNT HOOD NATIONAL FOREST

HOOD RIVER RANGER DISTRICT

DRAWING TITLE

SPRING MAIN PLAN & PROFILE STA A9+40 TO A13+60

DATE 03/24/2022	FS090		_L1-002.dwg
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PROJECT NAME

# CLOUD CAP INN WATER SYSTEM RENOVATION

MOUNT HOOD NATIONAL FOREST

HOOD RIVER RANGER DISTRICT

DRAWING TITLE

SPRING MAIN PLAN & PROFILE STA A13+60 TO A17+80

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PROJECT NO. 19-2622		SHEET 10 OF 15

NOTES:

1. PROPOSED WATER PIPING SHALL BE INSTALLED WITH A MINIMUM COVER OF 3'. THE ACTUAL DEPTH SHOULD BE ADJUSTED IN THE FIELD AND APPROVED BY THE CO TO PROVIDE FOR SMOOTH GRADIENTS THROUGHOUT THE PIPELINE AND SUCH THAT NO LOCALIZED LOW POINTS OR HIGH POINTS

2. THE CONTRACTOR SHALL POTHOLE AND VERIFY LOCATIONS, ELEVATIONS, TYPES, AND SIZES OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTING NEW WATER LINE FAR ENOUGH IN ADVANCE TO ALLOW NECESSARY ADJUSTMENTS IN GRADE AND SHALL NOTIFY CO OF NEED TO ADJUST PIPING INSTALLATION ACCORDINGLY.

3. WHERE THE PROPOSED WATER LINE CROSSES A SEWER LINE, THE CONTRACTOR SHALL INSTALL THE WATER LINE IN ACCORDANCE WITH OAR 333-061-0050(9)(c)(C), CROSSINGS - SANITARY SEWERS AND WATER LINES.

MATERIAL LIST

(1) FURNISH & INSTALL:

1-CURB BOX INSIDE ANSI TIER 22 LOAD RATED OLDCASTLE 910 VBOX W/ "WATER" LID OR APPVD EQ, INSTALL PER DET 5, SHT C-12 1-11/2" HDPE IPS X MIPT TRANS CPLG

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> > STAMPS, LOGOS, AND SEALS

Forest Service



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PROJECT NAME

**CLOUD CAP INN WATER SYSTEM RENOVATION** 

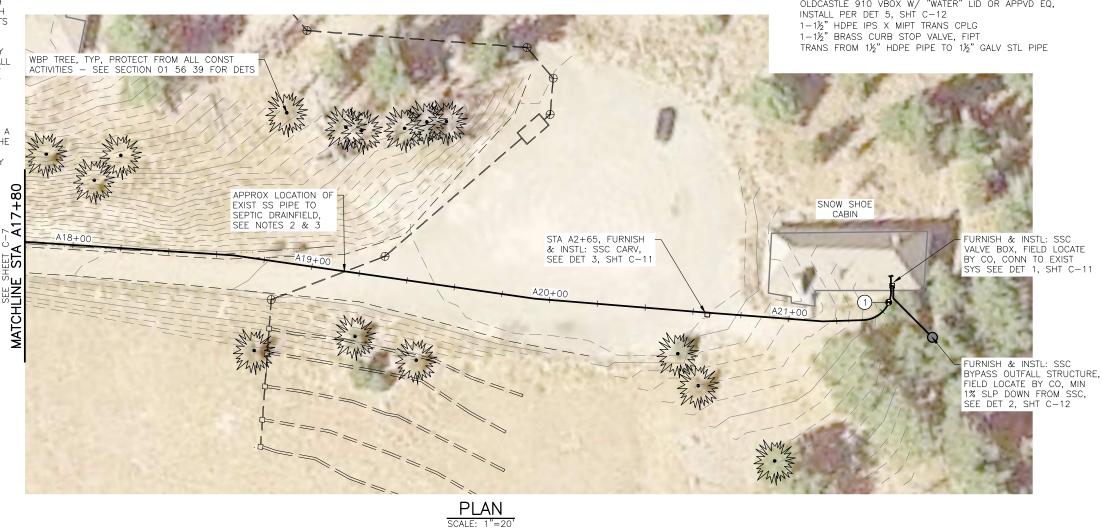
MOUNT HOOD NATIONAL **FOREST** 

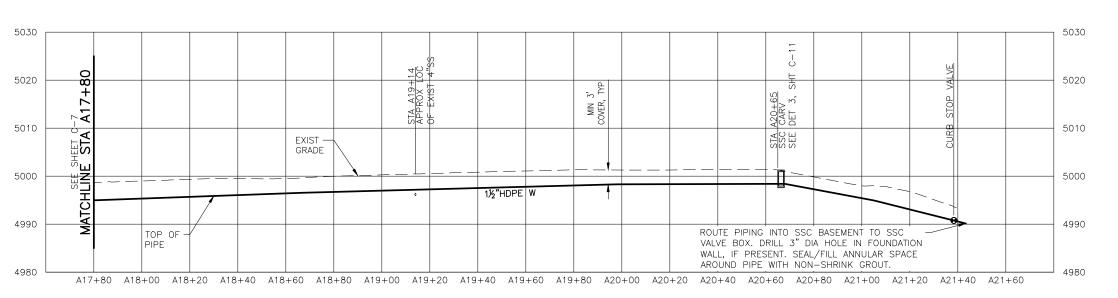
HOOD RIVER RANGER DISTRICT

DRAWING TITLE

**SPRING MAIN PLAN &** PROFILE STA A17+80 TO A21+45

DATE 03/24/2022	FS0905	E NO. 523_R102013_I	L1 <b>-</b> 002.dwg
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PROJECT NO. 19-2622	2	SHEET <b>11</b>	OF <b>15</b>



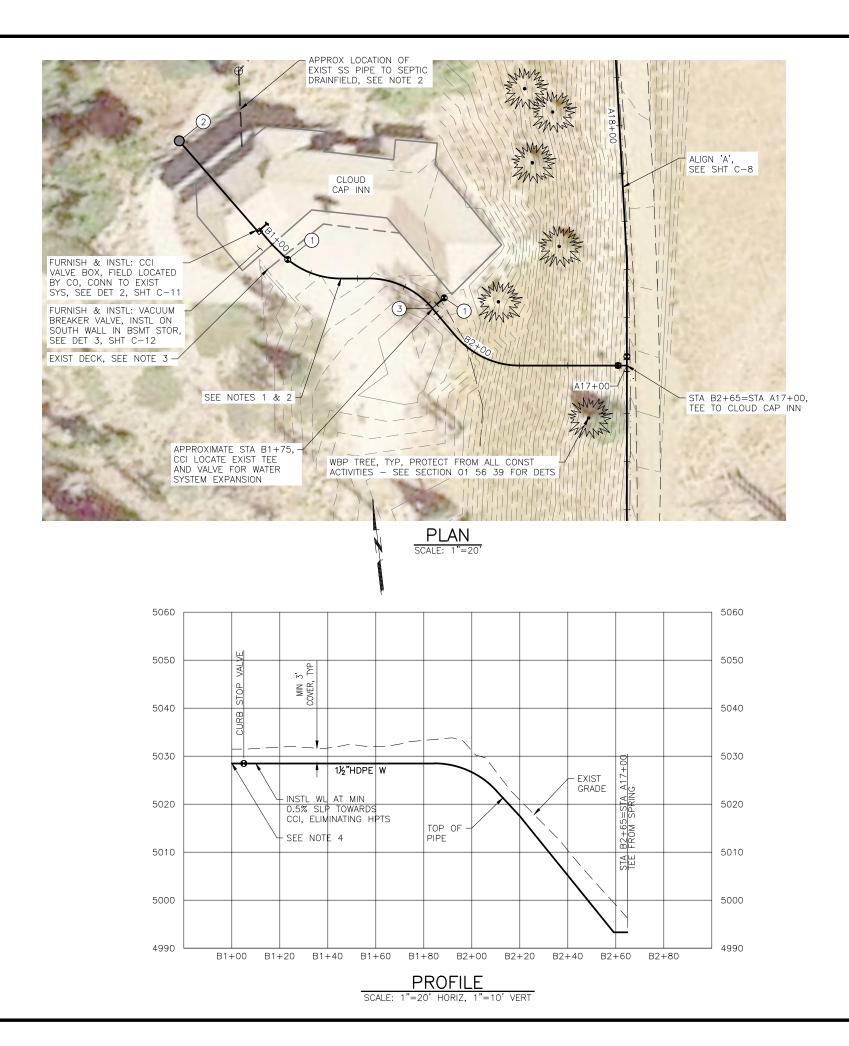


PROFILE SCALE: 1"=20' HORIZ, 1"=10' VERT

- 1 FURNISH & INSTALL:
  1-CURB BOX INSIDE ANSI TIER 22 LOAD RATED
  OLDCASTLE 910 VBOX W/ "WATER" LID OR APPVD EQ,
  INSTALL PER DET 5, SHT C-12
  1-1½" HDPE IPS X MIPT TRANS CPLG
  1-1½" BRASS CURB STOP VALVE, FIPT
  TRANS FROM 1½" HDPE PIPE TO 1½" GALV STL PIPE
- 2 FURNISH AND INSTALL:
  1-CLOUD CAP INN BYPASS OUTFALL STRUCTURE, FIELD
  LOCATE BY CO, MIN 1% SLP DOWN FROM CCI, SEE
  DETAIL 2, SHEET C-12
  FIELD LOCATE BY CO. MIN 1% SLP DOWN FROM CCI
- 3 FURNISH & INSTALL: 1-1½" HDPE IPS TEE

#### NOTES

- 1. PROPOSED WATER PIPING SHALL BE INSTALLED WITH A MINIMUM COVER OF 3'. THE ACTUAL ALIGNMENT SHALL BE ADJUSTED IN THE FIELD AND APPROVED BY THE CO TO AVOID ROCK EXCAVATION AND TREES. THE ACTUAL DEPTH SHALL BE ADJUSTED IN THE FIELD AND APPROVED BY THE CO TO PROVIDE FOR SMOOTH GRADIENTS THROUGHOUT THE PIPELINE AND SUCH THAT NO LOCALIZED LOW POINTS OR HIGH POINTS ARE CREATED.
- 2. THE CONTRACTOR SHALL POTHOLE AND VERIFY LOCATIONS, ELEVATIONS, TYPES, AND SIZES OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTING NEW WATER LINE FAR ENOUGH IN ADVANCE TO ALLOW NECESSARY ADJUSTMENTS IN GRADE AND SHALL NOTIFY COR OF NEED TO ADJUST PIPING INSTALLATION ACCORDINGLY.
- 3. PORTIONS OF THE CLOUD CAP INN DECK WILL NEED TO TEMPORARILY REMOVED FOR THE INSTALLATION OF THE WATER MAIN LINE. WHEN POSSIBLE, MATERIALS SHOULD BE RETAINED AND USED FOR REPAIR OF THE DECK ONCE THE WATER MAIN LINE WORK IS COMPLETE. IN THE EVENT THAT EXISTING MATERIALS CANNOT BE REUSED TO REPAIR THE DECK, REPLACEMENT MATERIALS WILL MATCH THE EXISTING IN TYPE AND DIMENSIONS.
- 4. ROUTE PIPING INTO CCI BASEMENT TO CCI VALVE BOX. DRILL 3" DIA HOLE IN FOUNDATION WALL, IF PRESENT. SEAL/FILL ANNULAR SPACE AROUND PIPE WITH NON—SHRINK GROUT.





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PACIFIC NORTHWEST REGION

STAMPS, LOGOS, AND SEALS



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PROJECT NAME

## CLOUD CAP INN WATER SYSTEM RENOVATION

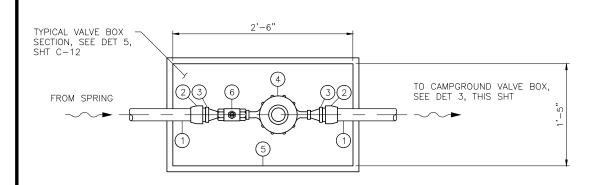
MOUNT HOOD NATIONAL FOREST

HOOD RIVER RANGER DISTRICT

DRAWING TITLE

CLOUD CAP MAIN PLAN & PROFILE STA B1+00 TO B2+65

03/24/2022	FS090	E NO. 523_R102013	_L1-002.dv
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PROJECT NO. 19-2622		SHEET 12	OF <b>15</b>



4'-0"

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FROM SPRING

(2)

### MATERIAL LIST

- 1) 2" HDPE PIPE
- 2" HDPE IPS X MIPT TRANS CPLG
- (3) 2" X 1" BRASS RDCR, FIPT
- 4) 1" METER, MODEL 55 RECORDALL DISC METER AS MFR BY BADGER METER, OR
- 5 VALVE VAULT, OLDCASTLE POLYMER 3017, 36" HT, RECTANGULAR POLYMER ENCL
- 6 1" BRASS CURB STOP VALVE,



4 (1)

TYPICAL VALVE BOX

SECTION, SEE DET 5,

TO CAMPGROUND DRAIN,

SEE DET 2, THIS SHT



- 1) 2" HDPE PIPE
- 2) 1½" HDPE PIPE
- (3) 1" HDPE PIPE

TO CLOUD CAP INN

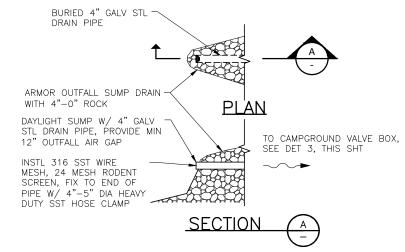
& SNOW SHOW CABIN

TO CAMPGROUND FAUCET, SEE DET 4, THIS SHT

CAMPGROUND FAUCET

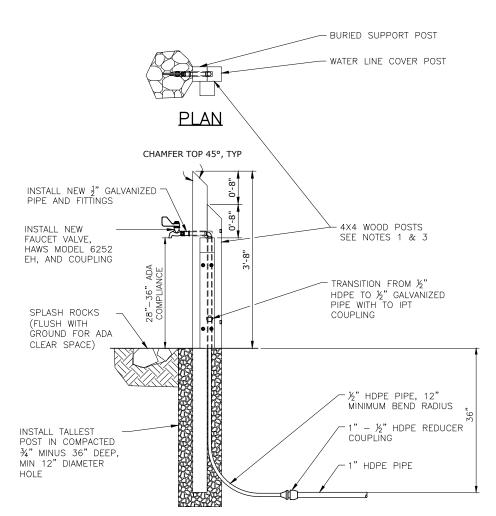
DRAIN WITH PLUG OR CAP

- (4) 2" HDPE IPS X MIPT TRANS CPLG
- 1½" HDPE IPS X MIPT TRANS 5 CPLG
- 1" HDPE IPS X MIPT TRANS CPLG
- 2" BRASS TEE, FIPT
- (7) 1" BRASS TEE, FIPT
- (8) 2" BRASS NIPPLE
- (9) 1" BRASS NIPPLE
- (10) 2" BRASS CURB STOP VALVE, FIPT
- (11) 1" BRASS CURB STOP VALVE, FIPT
- (12) 2" X 1½" BRASS RDCR, FIPT
- (13) 1½" X 1" BRASS RDCR, FIPT
- (14) VALVE VAULT, OLDCASTLE POLYMER 3048, 48" HT, RECTANGULAR 15) POLYMER ENCL



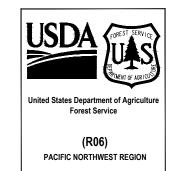
CAMPGROUND DRAIN DETAIL

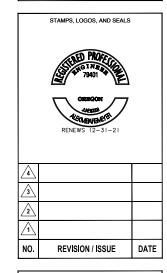




- 1. ALL WOOD SHALL BE PRESSURE TREATED RATED FOR BURIAL.
  2. FAUCET INSTALLED THROUGH BURIED SUPPORT POST WITH MILLED RELIEF IN THE WATER LINE COVER POST FOR PIPE AND FITTINGS.
  3. TERMINATE SHORTER POSTS AT GROUND LEVEL AND FASTEN EACH TO BURIED
- SUPPORT POST WITH 4-3/8" GALVANIZED LAG SCREWS, LENGTH AS REQUIRED. PROVIDE 3" PILOT DRILL THROUGH SHORTER POSTS AND COUNTERSINK HEADS FLUSH. INSTALLATION OF FASTENERS SHALL AVOID CONFLICT WITH PIPING.







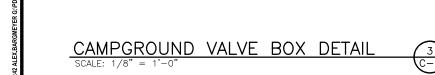
PROJECT NAME **CLOUD CAP INN WATER SYSTEM RENOVATION** MOUNT HOOD NATIONAL **FOREST** 

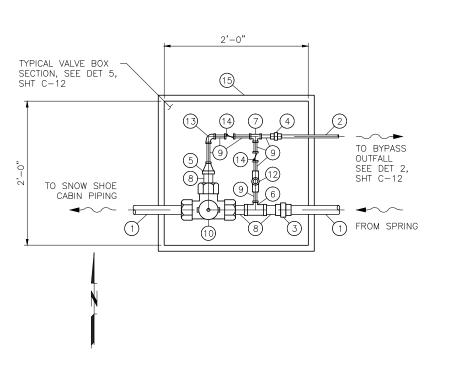
HOOD RIVER RANGER DISTRICT

DRAWING TITLE

**CIVIL DETAILS - 1** 

DATE 03/24/2022	ARCHIVE NO. FS090523_R102013_L1-002.dwg
DESIGNER TMS	DRAWING SHEET NO.
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PROJECT NO. 19-2622	SHEET 13 OF 15





SNOW SHOE CABIN VALVE BOX DETAIL

### MATERIAL LIST

- 1) 1½" GALV STL PIPE
- (2) 34" GALV STL PIPE
- (3) 1½" BRASS UNION, FIPT
- (4) 34" BRASS UNION, FIPT
- (5) 1½" X ¾" BRASS RDCR, FIPT
- (6) 1½" X ¾" BRASS TEE, FIPT
- (7) 34" BRASS TEE, FIPT
- (8) 1½" BRASS NIPPLE
- (9) 34" BRASS NIPPLE
- 10 1½" BRASS 3-WAY BALL VALVE W/MANUAL HANDLE LEVER, FIPT, SEE NOTE 1, ASSURED AUTÓMATIÓN 31D SERIES (FLOW PLAN 'F') OR APPVD EQ

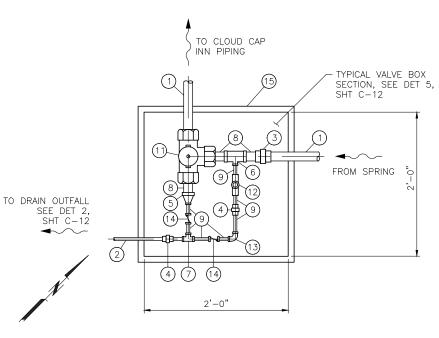
- (1) 1½" BRASS 3-WAY BALL VALVE W/ MANUAL HANDLE LEVER, FIPT, SEÉ NOTE 2, ASSURED AUTOMATION 31D SERIES (FLOW PLAN 'F') OR APPVD EQ
- (12) 34" BRASS NEEDLE VALVE, FIPT
- (13) 34" BRASS 90" ELBOW, FIPT

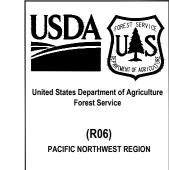
INSTALLATION NOTES:

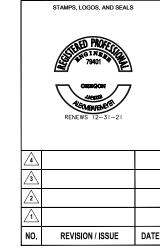
- (14) 34" BRASS CHECK VALVE, FIPT
- (15) VALVE VAULT, OLDCASTLE POLYMER 2424, 48" HT, RECTANGULAR POLYMER

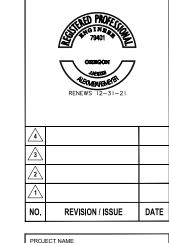
1.1. POSITION 1 — BLDG PLUMBING DRAIN 1.2. POSITION 2 — SYSTEM OPERATION

2. CLOUD CAP INN 3-WAY BALL VALVE: 2.1. POSITION 1 - SYSTEM OPERATION 2.2. POSITION 2 - BLDG PLUMBING DRAIN









**CLOUD CAP INN** 

**WATER SYSTEM** RENOVATION

MOUNT HOOD NATIONAL

**FOREST** 

HOOD RIVER RANGER DISTRICT

**CIVIL DETAILS - 2** 

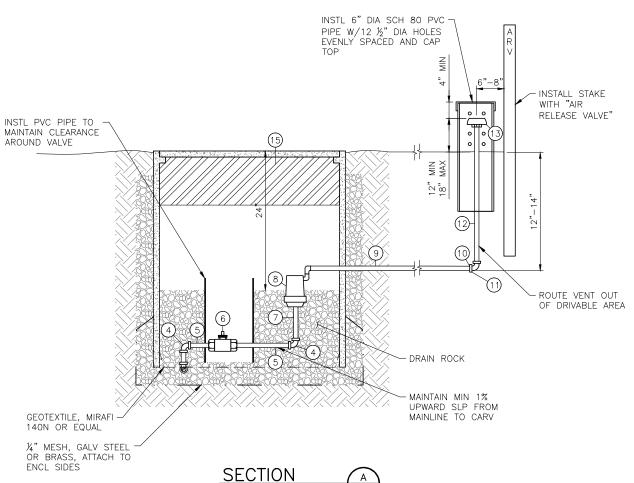
## CLOUD CAP INN VALVE BOX DETAIL

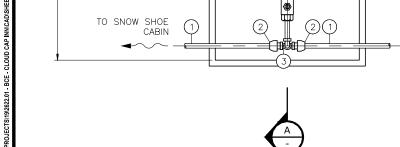
### MATERIAL LIST

- 1) 1½" HDPE PIPE
- 2) 1½" HDPE IPS X MIPT TRANS CPLG
- 3 1½" BRASS TEE, FIPT, ROTATE UP
- (4) 1½" BRASS 90° ELBOW, FIPT
- (5) 1½" BRASS NIPPLE
- (6) 1½" BRASS CURB STOP VALVE, FIPT
- 7 1½" BRASS NIPPLE W/ BRASS COUPLER
- (8) 1½" COMB AIR RELEASE VALVE
- 9 34" HDPE PIPE
- (10) 34" HDPE X MIPT ADAPTOR
- (11) 34" GALV 90° ELBOW, FIPT
- (12) 34" GALV PIPE

FROM SPRING

- (13) 3/4" SCREENED TANK VENT
- (14) FOR SSC CARV VALVE VAULT, OLDCASTLE POLYMER 2424, 36" HT, TRAFFIC-RATED, RECTANGULAR POLYMER ENCL
- (15) MIN 12" THK POLYURETHANE FOAM INSUL





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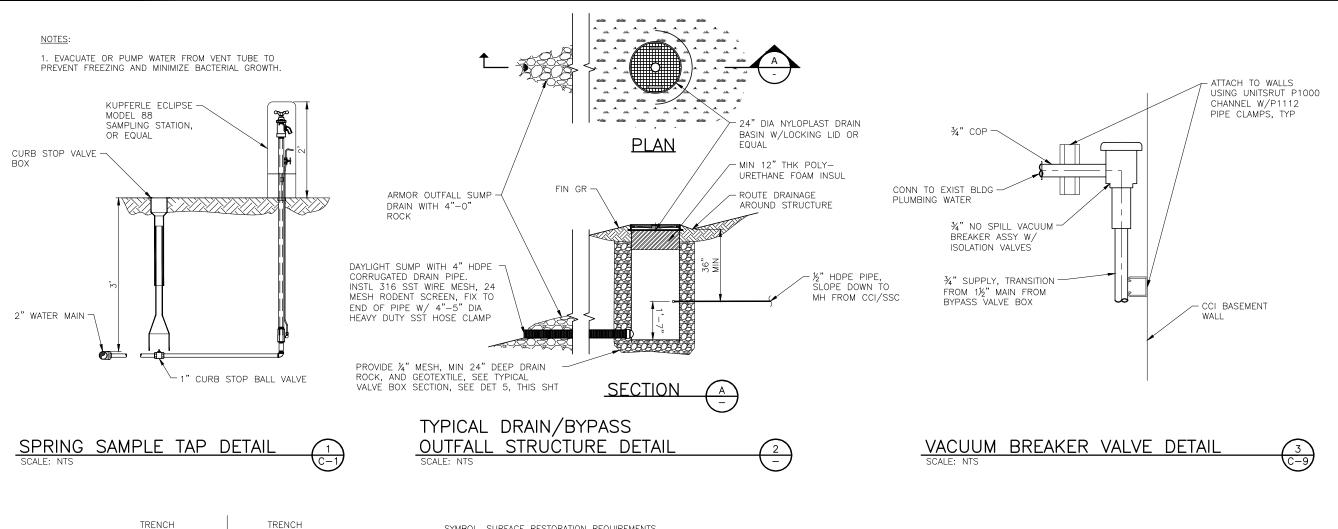
TYPICAL COMBINATION AIR RELEASE VALVE DETAIL

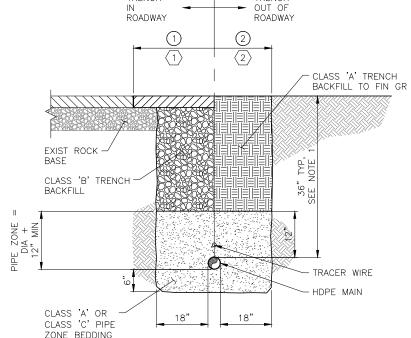
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19-2622





TYPICAL PIPE TRENCH DETAIL

& BACKFILL

### SYMBOL SURFACE RESTORATION REQUIREMENTS

REPLACE REMOVED GRAVEL ROAD SURFACE WITH MINIMUM DEPTH OF 3" CRUSHED ROCK OR MATCH EXIST DEPTH, WHICHEVER IS GREATER, TO A MAXIMUM DEPTH OF 6".

BACKFILL WITH CLASS 'A' NATIVE MATERIAL. FINISH TRENCH SURFACE TO MATCH ORIGINAL CONTOURS WITH FINAL 6" LIFT OF STOCKPILED TOPSOIL, MULCH, AND/OR SALVAGED NATIVE PLANT MATERIALS.

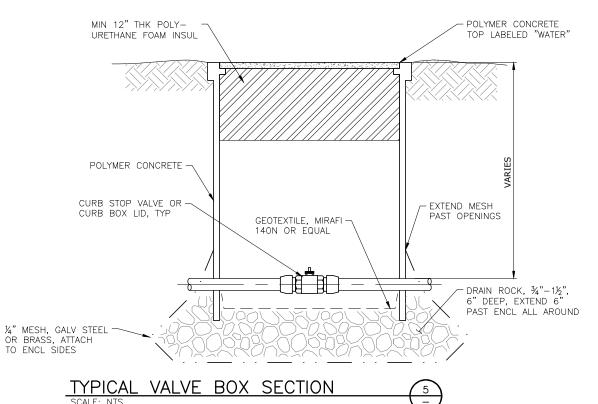
### BACKFILL REQUIREMENTS

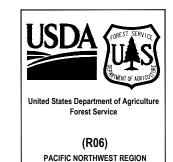
FURNISH AND INSTALL CLASS 'C' SAND BEDDING AND PIPE ZONE BACKFILL MATERIAL COMPACTED TO 95% OF MAXIMUM DENSITY PER ASTM D1557. FURNISH AND INSTALL CLASS 'B' ¾"-0" IMPORTED GRANULAR TRENCH BACKFILL MATERIAL TO GRAVEL ROAD SURFACE BASE. COMPACT MATERIAL IN LIFTS TO ACHIEVE 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH AASHTO T-99.

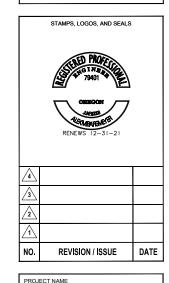
FURNISH AND INSTALL CLASS 'A' NATIVE MATERIAL OR CLASS 'C' SAND BEDDING AND PIPE ZONE BACKFILL MATERIAL COMPACTED TO 95% OF MAXIMUM DENSITY PER ASTM D1557. FURNISH AND INSTALL CLASS 'A' NATIVE MATERIAL TRENCH BACKFILL TO FINISH GRADE COMPACTED TO 90% MAXIMUM DENSITY PER ASTM D1557.

#### NOTES:

1. MINIMUM DEPTH OF 36" SHALL BE MAINTAINED AT ALL TIMES, REGARDLESS OF EXISTING FEATURES, SUCH AS DITCHES AND SUDDEN CHANGES IN TOPOGRAPHY. IF PIPE CROSSES OR RUNS PARALLEL ALONG A DITCH, THE PIPE MUST BE LOWERED AS NECESSARY TO MAINTAIN 36" OF CLEARANCE BETWEEN THE BOTTOM OF THE DITCH AND THE TOP OF THE PIPE. CONSULT WITH COR AND CO IF THE MINIMUM DEPTH OF 36" CANNOT BE MAINTAINED FOR SPECIFIC AREAS.









HOOD RIVER RANGER DISTRICT

DRAWING TITLE

**CIVIL DETAILS - 3** 

	DATE 03/24/2022	FS0905	E NO. 523_R102013_L1=002.dwg	
	DESIGNER TMS  DRAWN TMS  CHECKED AMB  PROJECT NO. 19-2622		DRAWING SHEET NO.	
			C-12	
			SHEET <b>15</b> OF <b>15</b>	