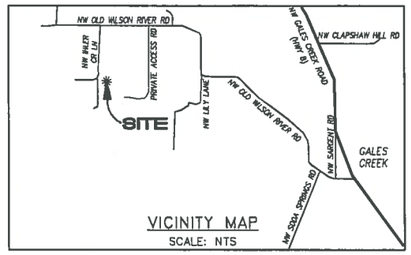
RUDY RESERVOIR - COVER SHEET AND GRADING DETAILS

LOCATED IN THE SW 1/4 OF SECTION 6 AND NW 1/4 OF SECTION 7, T1N, R4W, W.M.
TAX LOT 800; WASHINGTON COUNTY, OREGON

LEGEND

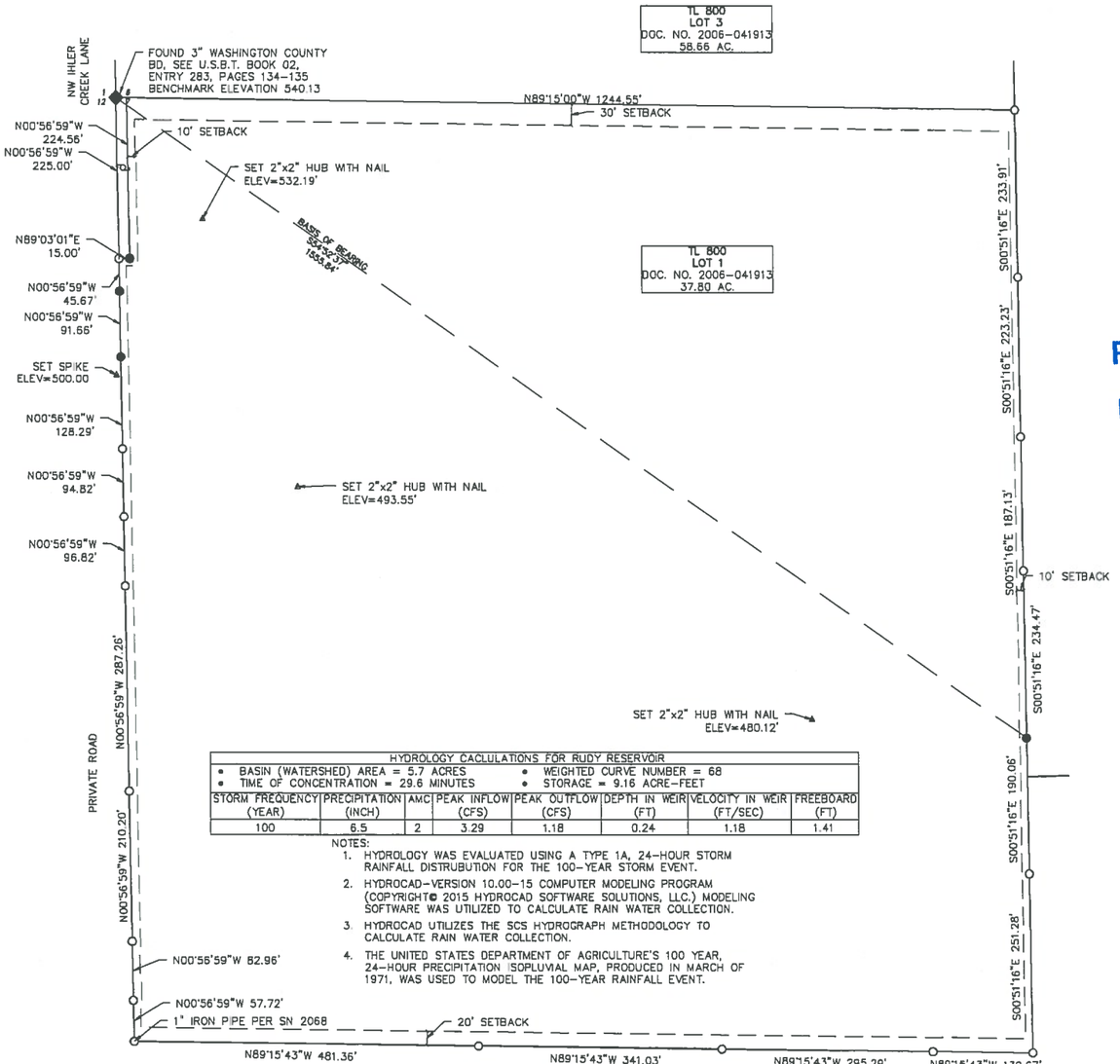
- APPROXIMATE PROPERTY LINE BASED ON PARTITION PLAT NO. 1995-094
- SETBACK
- BASIS OF BEARING
- ▲ SET CONTROL POINT
- ○ EXISTING MONUMENT – CALCULATED
- ● FOUND 5/8" X 30" IRON ROD (IR) WITH RED PLASTIC CAP (RPC) MARKED "RYAN LS 58833" SET ON MAY 12TH, 2008
- ◆ FOUND 1/4 CORNER AS DESCRIBED ON PLAN



VICINITY MAP
SCALE: NTS

TREE LOCATION NOTES

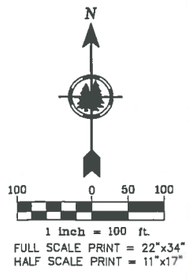
REMOVE TREES AND STUMPS WITHIN THE DAM FOOTPRINT AND BORROW AREA AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND LOCATION FOR STUMPS AND CUT TREES WITH THE OWNER.



PROJECT AREA

HYDROLOGY CACLULATIONS FOR RUDY RESERVOIR							
• BASIN (WATERSHED) AREA = 5.7 ACRES • TIME OF CONCENTRATION = 29.6 MINUTES			• WEIGHTED CURVE NUMBER = 68 • STORAGE = 9.16 ACRE-FEET				
STORM FREQUENCY (YEAR)	PRECIPITATION (INCH)	AMC	PEAK INFLOW (CFS)	PEAK OUTFLOW (CFS)	DEPTH IN WEIR (FT)	VELOCITY IN WEIR (FT/SEC)	FREEBOARD (FT)
100	6.5	2	3.29	1.18	0.24	1.18	1.41

NOTES:
1. HYDROLOGY WAS EVALUATED USING A TYPE 1A, 24-HOUR STORM RAINFALL DISTRUBUTION FOR THE 100-YEAR STORM EVENT.
2. HYDROCAD-VERSION 10.00-15 COMPUTER MODELING PROGRAM (COPYRIGHT© 2015 HYDROCAD SOFTWARE SOLUTIONS, LLC.) MODELING SOFTWARE WAS UTILIZED TO CALCULATE RAIN WATER COLLECTION.
3. HYDROCAD UTILIZES THE SCS HYDROGRAPH METHODOLOGY TO CALCULATE RAIN WATER COLLECTION.
4. THE UNITED STATES DEPARTMENT OF AGRICULTURE'S 100 YEAR, 24-HOUR PRECIPITATION ISOPLUVIAL MAP, PRODUCED IN MARCH OF 1971, WAS USED TO MODEL THE 100-YEAR RAINFALL EVENT.



FULL SCALE PRINT = 22"x34"
HALF SCALE PRINT = 11"x17"

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GENERAL NOTES

STUNTZNER ENGINEERING & FORESTRY, LLC. MAKES NO REPRESENTATION OF THE EXISTENCE OR NON-EXISTENCE OF UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH THE PROVISIONS OF ORS 757.541 TO 757.571, WHICH REQUIRES THE CONTRACTOR TO NOTIFY UTILITIES AT LEAST 48 HOURS BUT NO MORE THAN 10 BUSINESS DAYS PRIOR TO ANY EXCAVATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM THE DISRUPTION OF SERVICE CAUSED BY CONSTRUCTION ACTIVITIES.

THE CONTRACTOR AND/OR SUB-CONTRACTOR SHALL HAVE A MINIMUM OF ONE (1) SET OF APPROVED CONSTRUCTION PLANS ON THE JOB AT ALL TIMES DURING CONSTRUCTION PHASES.

THE CONTRACTOR SHALL CAREFULLY MAINTAIN BENCHAMARKS, PROPERTY CORNERS, MONUMENTS, AND OTHER REFERENCE POINTS. IF SUCH POINTS ARE DISTURBED OR DESTROYED BY THE CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND PAY FOR THEIR REPLACEMENT BY EMPLOYING A PROFESSIONAL LAND SURVEYOR TO RESET PROPERTY CORNERS AND OTHER SUCH MONUMENTS.

DUST CONTROL NOTES

DUST SHALL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE, UTILIZING ALL MEASURES NECESSARY, INCLUDING BUT NOT LIMITED TO: SPRINKLER ACCESS ROAD AND OTHER EXPOSED DUST PRODUCING AREAS. APPLYING AGENCY-APPROVED DUST PALLIATIVES ON ACCESS ROAD. ESTABLISHING TEMPORARY VEGETATIVE COVER. PLACING WOOD CHIPS OR OTHER EFFECTIVE MULCHES ON VEHICLE USE AREA SURFACES. USE OF COVERED HAUL EQUIPMENT.

CONTRACTOR SHALL FURNISH AND INSTALL EQUIPMENT TO HAUL AND PLACE WATER. AN ADEQUATE SUPPLY OF WATER SHALL BE MAINTAINED AT ALL TIMES.

EXISTING SITE CONDITIONS

THE SITE IS CURRENTLY AN OPEN AND PERIODICALLY TILLED FARM FIELD. THERE IS AN UPPER AND LOWER FIELD AND BOTH ARE USED FOR AGRICULTURAL PURPOSES. BOTH ARE RELATIVELY FLAT EXCEPT FOR A LARGE EMBANKMENT SEPARATING THE UPPER & LOWER FIELDS. THE LARGE EMBANKMENT IS COVERED WITH TIMBER. THE GROUND COVER OF THE UPPER & LOWER FIELDS CONSISTS OF A CLOVER AND GRASS. THE SLOPES OF THE TWO FIELDS IS RELATIVELY FLAT AND GENERALLY VARY FROM 1% TO 5%. THE SLOPE OF THE EMBANKMENT IS RELATIVELY CONSISTENT AND VARIES FROM 20-30%.

DEVELOPED CONDITIONS

WHEN THIS PROJECT IS COMPLETE, A RESERVOIR WILL BE CONSTRUCTED THAT IS CAPABLE OF STORING 9.2 ACRE-FEET (OR LESS) OF WATER. THE STORED WATER WILL BE USED FOR IRRIGATION, FIRE SUPPRESSION, WILDLIFE, AND AESTHETICS.

NATURE OF CONSTRUCTION ACTIVITY AND ESTIMATED TIME TABLE

-CLEARING (JULY 1ST - JULY 15TH)
-GRADING (JULY 15TH - SEPTEMBER 15TH)
-FINAL STABILIZATION (SEPTEMBER 15TH - OCTOBER 31ST)
*THE TIME OF CONSTRUCTION COULD VARY FOR MULTIPLE REASONS. REASONS INCLUDE, BUT ARE NOT LIMITED TO, APPROVAL OF CONSTRUCTION PLANS, ECONOMIC HARDSHIP TO THE OWNER, ETC.

-TOTAL DISTURBED AREA = 4.40 ACRES

NOTE: GRADING MAY OCCUR DURING WET WEATHER (OCT. 1ST - MAY 31ST). WET WEATHER GRADING RULES MUST BE FOLLOWED DURING THIS TIME.

SITE SOIL CLASSIFICATION:

ACCORDING TO THE NATURAL RESOURCES CONSERVATION SERVICE (NRCS) WEB SOIL SURVEY MAP, THE SOIL ON THE SITE CONSISTS OF:

- LOWER FIELD: WAPATO SILTY CLAY LOAM, (HYDROLOGIC SOIL GROUP C)
- EMBANKMENT: LAURELWOOD SILT LOAM, 12 TO 20 PERCENT SLOPES (HYDROLOGIC SOIL GROUP B)
- UPPER FIELD: LAURELWOOD SILT LOAM, 3 TO 7 PERCENT SLOPES (HYDROLOGIC SOIL GROUP B)

THE UNIFIED SOIL CLASSIFICATION OF THE SOIL IS A SILT LOAM, 'ML'.

TRAFFIC CONTROL:

TRAFFIC CONTROL IS NOT REQUIRED. CONSTRUCTION EQUIPMENT WILL BE ON PRIVATE PROPERTY. NO WORK IS PROPOSED WITHIN THE RIGHT-OF-WAY.

RECEIVING WATER BODIES:

IHLER CREEK

DESCRIPTION OF WORK

THESE PLANS SHOW THE IMPROVEMENTS REQUIRED TO CONSTRUCT A NEW EARTHEN EMBANKMENT RESERVOIR. THE RESERVOIR IS DESIGN TO STORE APPROXIMATELY 9.2 ACRE-FEET OF WATER OR LESS.

CONTACT

PROPERTY OWNER:
MARGIT RUDY
1503 BIRCH STREET
FOREST GROVE, OR 97116
(503) 962-9629
MARGITRUDY@GMAIL.COM

ENGINEER / SURVEYOR / EROSION CONTROL INSPECTOR:
STUNTZNER ENGINEERING AND FORESTRY, LLC
ATTN: NICK BLUNDON-PE, CESCL & BILL FLATZ-PE; CWRE; CESCL
2318-B PACIFIC AVENUE
FOREST GROVE, OREGON 97116
(503) 357-5717 OFFICE
(503) 357-5698 FAX
nickblundon@stuntzner.com; billflatz@stuntzner.com

GEOTECHNICAL ENGINEER:
GEO CONSULTANTS NORTHWEST, INC.
ATTN: DAVID RANKIN-CEG, LHG, LEG, QE
2839 SE MILWAUKIE AVENUE
PORTLAND, OREGON 97202
(503) 616-9425 OFFICE
971-322-9330 CELL
david.rankin@gcnmail.com

CONTRACTOR:
TBD

PROPERTY DESCRIPTION

WASHINGTON COUNTY TAX ASSESSOR MAP
1N 4 6 FOR NORTHERN PORTION OF TAX LOT 800
1N 4 7 FOR PROJECT SITE ON TAX LOT 800

PROPERTY LOCATION

THE PROPERTY IS LOCATED APPROXIMATELY 1.5 MILES NORTHWEST OF GALES CREEK AND 0.3 MILES SOUTH OF THE INTERSECTION OF NW IHLER CREEK LANE AND NW OLD WILSON RIVER ROAD. THE ADDRESS OF THE PROPERTY IS 54160 NW OLD WILSON RIVER ROAD, GALES CREEK, OREGON 97117.

THE PROPOSED DAM IS LOCATED AT APPROXIMATELY (USING GOOGLE EARTH):
LATITUDE: 45.59123
LONGITUDE: -123.23723

BENCHMARK

THE BENCHMARK ELEVATION IS THE SECTION CORNER COMMON TO SECTIONS 1, 6, 7, AND 12. THE SECTION CORNER IS SHOWN ON THIS PLAN (ELEVATION = 540.13).

ELEVATIONS ARE ASSUMED. AN ELEVATION AT 500.00 WAS ASSUMED AT A CONTROL POINT BEARING DUE SOUTH 387.71' FROM THE SECTION CORNER COMMON TO SECTIONS 1, 6, 7, AND 12.

FLOOD PLAIN ELEVATION

THE PROJECT SITE IS LOCATED ABOVE THE 100-YEAR FLOOD PLAIN. ACCORDING TO FEMA FLOOD MAP 4102380300E.

SUMMARY OF QUANTITIES

1) TOTAL TAX LOT SIZE	37.8 AC
2) AREA OF DISTURBANCE	3.49 AC
3) TOPSOIL SPREAD AREA	0.91 AC
4) TOTAL AREA OF DISTURBANCE	4.40 AC
5) RESERVOIR STORAGE OF WATER	9.16 AC-FT
6) TOPSOIL STRIPPING (CUT)*	5,500 CY
7) GRADING EXCAVATION (CUT)*	19,900 CY
8) GRADING EMBANKMENT (FILL)*	18,600 CY
9) CORE TRENCH EXCAVATION (CUT)	1,300 CY
10) CORE TRENCH EMBANKMENT (FILL)	1,300 CY
11) 8" DIA CMP DRAIN & OUTLET PIPE	126 LF
12) 12" DIA STAND PIPE	16 LF
13) 4" DIA PERFORATED PVC PIPE	715 LF
14) 6" DIA SCHED. 40 PVC PIPE	60 LF
15) TOPSOIL/MULCH FOR EMBANKMENT SEEDING AND EROSION CONTROL	1.57 AC
16) 1/2" TO 3/4" CRUSHED ROCK (TOE DRAINS)	25 CY
17) NON-WOVEN GEOTEXTILE FABRIC (TOE DRAINS)	425 SQ YRD
18) 1.5" MINUS CRUSHED ROCK (ROAD)	310 CY
19) 3/4" MINUS CRUSHED ROCK (ROAD)	62 CY
20) WOVEN GEOTEXTILE FABRIC (ROAD)	1,900 SQ YRD
21) ASTM-33 CONCRETE SAND	60 CY
22) ODOT CLASS 50 RIP RAP (PIPE OUTFALLS)	3 CY

*QUANTITIES ASSUME THAT 12" OF TOPSOIL WILL BE STRIPPED AND EVENLY SPREAD ONSITE WITHIN THE SPREAD AREA SHOWN ON THE PLANS. TOPSOIL SHALL BE STRIPPED ON AREAS OF CUT AND FILL SHOWN ON THE PLANS (TOPSOIL STRIPPING ON SPREAD AREAS IS NOT REQUIRED).

SHEET INDEX

1 - COVER SHEET AND GRADING DETAILS

MARGIT RUDY
1503 BIRCH STREET
FOREST GROVE, OR 97116

REV	DATE	DESCRIPTION	BY

Stuntzner Engineering & Forestry, LLC
ENGINEERING • LAND SURVEYING • FORESTRY PLANNING • WATER RIGHTS
• COOS BAY • DALLAS • FOREST GROVE • JUNCTION CITY •
2318-B PACIFIC AVENUE
FOREST GROVE, OREGON 97116
TEL: (503) 357-5717
FAX: (503) 357-5698

REGISTERED PROFESSIONAL ENGINEER
#53,005
OREGON
JULY 13, 1995
WILLIAM L. FLATZ
EXPIRES 12/31/19

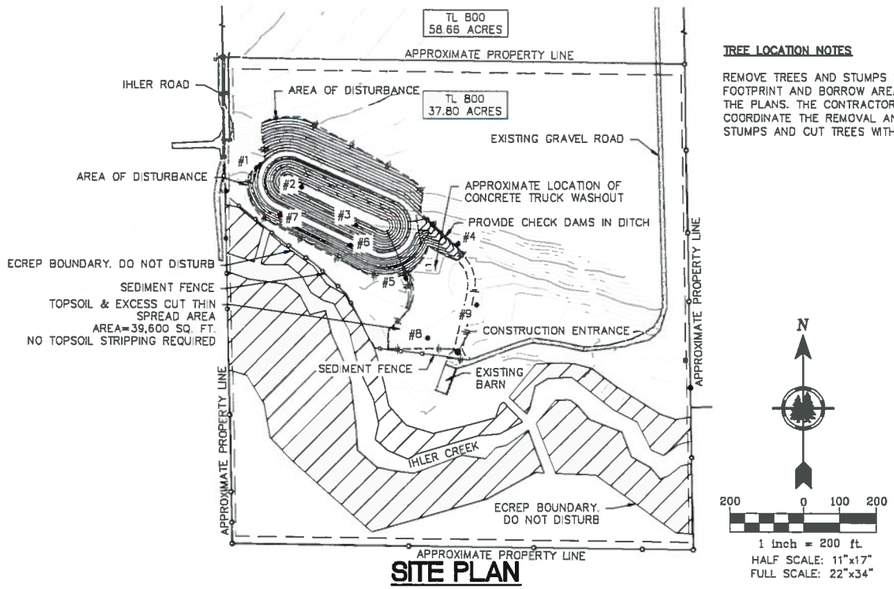
DESIGNED BY: WLF
DRAWN BY: NGB
CHECKED BY: NGB/WLF
DATE: 8-7-2018
REVISED:
JOB NAME: RUDY RESERVOIR
JOB No.: 316067 SHEET 1 OF 7

Y:\2016\316067 Rudy, Margit\dwg\RUDY GRADING PERMIT - B.dwg Jun 07, 2018 - 10:22am

R-88649

RUDY RESERVOIR - EROSION AND SEDIMENT CONTROL PLAN

LOCATED IN THE SW 1/4 OF SECTION 6 AND NW 1/4 OF SECTION 7, T1N, R4W, W.M.
TAX LOT 800; WASHINGTON COUNTY, OREGON



SITE PLAN

SCALE: 1"=200'

HALF SCALE: 11"x17"
FULL SCALE: 22"x34"

LEGEND

- APPROXIMATE PROPERTY LINE
- SETBACK (30' FRONT, 10' SIDE, 20' REAR)
- FOUND 1/4 CORNER
- FOUND / CALCULATED MONUMENT
- EXISTING MINOR CONTOUR (2' INTERVAL)
- EXISTING MAJOR CONTOUR (10' INTERVAL)
- PROPOSED MINOR CONTOUR (2' INTERVAL)
- PROPOSED MAJOR CONTOUR (10' INTERVAL)
- AREA OF DISTURBANCE
- #1 TEST PIT
- ECREP BOUNDARY RECORDED BY OWNER
- PLUNGE POOL
- SEDIMENT FENCE

PROPERTY OWNER / APPLICANT:

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ENGINEER / SURVEYOR / EROSION CONTROL SITE INSPECTOR:

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DEVELOPED CONDITIONS

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INSPECTION FREQUENCY	
SITE CONDITION	MINIMUM FREQUENCY
1. ACTIVE PERIOD.	DAILY WHEN STORMWATER RUNOFF, INCLUDING RUNOFF FROM SNOWMELT, IS OCCURRING. AT LEAST ONCE EVERY 14 DAYS, REGARDLESS OF WHETHER OR NOT RUNOFF IS OCCURRING.
2. PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACCESSIBILITY.	ONCE TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE IN WORKING ORDER. ANY NECESSARY MAINTENANCE AND REPAIR MUST BE MADE PRIOR TO LEAVING THE SITE.
3. INACTIVE PERIODS GREATER THAN (14) CALENDAR DAYS.	ONCE EVERY MONTH.
4. PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER.	IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION.
5. PERIODS DURING WHICH DISCHARGE IS UNLIKELY DUE TO FROZEN CONDITIONS.	IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION.

PERMITTEE'S SITE INSPECTOR - NICK BLUNDON - PE, CESCL

COMPANY: STUNTZNER ENGINEERING AND FORESTRY
PHONE: 503-357-5717
FAX: 503-357-5698
EMAIL: nickblundon@stuntzner.com; billflatz@stuntzner.com
STUNTZNER ENGINEERING AND FORESTRY HAS OVER FOUR DECADES OF EXPERIENCE IN THE PREPARATION AND DETAIL OF VARIOUS SCOPE PROJECTS INVOLVING EROSION AND SEDIMENT CONTROL AND CURRENTLY EMPLOYS CERTIFIED EROSION AND SEDIMENT CONTROL LEADS.

ROAD SURFACE EROSION CONTROL WHILE GRADING:

DURING GRADING, ANY ROAD SURFACE SHALL BE SLOPED TOWARDS THE DITCHLINES OR TOWARD THE CREEK.

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

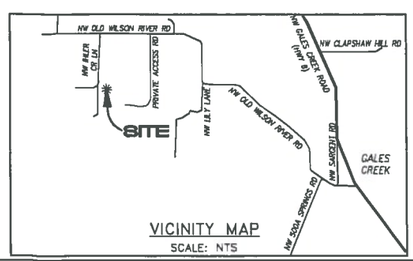
STANDARD EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES:

1. HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS. (SCHEDULE A.8.C.I.(3))
2. ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-C PERMIT REQUIREMENTS. (SCHEDULE A.12.B AND SCHEDULE B.1)
3. INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-C PERMIT REQUIREMENTS. (SCHEDULE B.1.C AND B.2)
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. DURING INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, THE ABOVE RECORDS MUST BE RETAINED BY THE PERMIT REGISTRANT BUT DO NOT NEED TO BE AT THE CONSTRUCTION SITE. (SCHEDULE B.2.C)
5. ALL PERMIT REGISTRANTS MUST IMPLEMENT THE ESCP. FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A VIOLATION OF THE PERMIT (SCHEDULE A B.A)
6. THE ESCP MUST BE ACCURATE AND REFLECT SITE CONDITIONS. (SCHEDULE A.12.C.I)
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. (SCHEDULE A.12.C.IV, AND V)
8. PHASE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION. (SCHEDULE A.7.A.II)
9. 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. (SCHEDULE A.8.C.I.(1) AND (2))
10. 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. (SCHEDULE A.7.A.V)
11. MAINTAIN AND DELINEATE ANY EXISTING NATURAL BUFFER WITHIN THE 50-FEET OF WATERS OF THE STATE. (SCHEDULE A.7.B.LAND (2(A)(B))
12. INSTALL PERIMETER SEDIMENT CONTROL, INCLUDING STORM DRAIN INLET PROTECTION AS WELL AS ALL SEDIMENT BASINS, TRAPS, AND BARRIERS PRIOR TO LAND DISTURBANCE. (SCHEDULE A.8.C.I.(5))
13. CONTROL BOTH PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND DOWNSTREAM CHANNELS AND STREAMBANKS (SCHEDULE A.7.C)
14. 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. (SCHEDULE A.7.D.I)
15. ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING CONCRETE WORK. (SCHEDULE A.8.C.I.(6))
16. 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.(SCHEDULE A.8.C.I.(3))
17. ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS. (SCHEDULE A.8.C.I.(7))
18. 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 LANDDISTURBING ACTIVITIES. (SCHEDULE A 7.D.II AND A.8.C.I.(4))
19. WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE. (SCHEDULE A.7.D.II.(5))
20. CONTROL PROHIBITED DISCHARGES FROM LEAVING THE CONSTRUCTION SITE, I.E., CONCRETE WASH-OUT, WASTEWATER FROM CLEANOUT OF STUCCO, PAINT AND CURING COMPOUNDS. (SCHEDULE A.8)
21. 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. (SCHEDULE A.7.C.I.(2))
22. 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. (SCHEDULE A.7.E.II.)
23. USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL. (SCHEDULE A 7.A.IV)
24. 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. (SCHEDULE A.9.B.III)
25. 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 PLAN APPROVAL BEFORE OPERATING THE TREATMENT SYSTEM. OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS. (SCHEDULE A.9.D)
26. 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. (SCHEDULE A 7.B)
27. 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. (SCHEDULE A 7.E.II.(2))
28. CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND BARE GROUND ACTIVITIES DURING WET WEATHER. (SCHEDULE A 7.A.I)
29. SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL. (SCHEDULE A.9.C.I)
30. OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS): REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT AND BEFORE BMP REMOVAL. (SCHEDULE A.9.C.I)
31. 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. (SCHEDULE A.9.C.III& IV)
32. 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. (SCHEDULE A.9.B.I)
33. THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR. VACUURING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS. (SCHEDULE A.9.B.II)
34. 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. (SCHEDULE A.7.F.I)
35. 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. (SCHEDULE A.7.F.II)
36. 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. (SCHEDULE A.8.C.II.(1) AND D.3.C.II AND III)

RATIONAL STATEMENT:

A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ's GUIDANCE MANUAL HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE ABOVE LISTED BMP's WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS, TOPOGRAPHIC CONSTRAINTS, ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS. AS THE PROJECT PROGRESSES AND THERE IS A NEED TO REVISE THE ESC PLAN, AN ACTION PLAN WILL BE SUBMITTED.

INITIAL _____



VICINITY MAP

SCALE: NTS

BMP MATRIX:

REFER TO DEQ GUIDANCE MANUAL FOR A COMPREHENSIVE LIST OF AVAILABLE BMP'S.

BMPS \ YEAR / MONTH #	2018 JULY	AUG.	SEPT.	OCT.
PIPE SLOPE DRAINS				
ENERGY DISSIPATERS **	X	X	X	X
TEMPORARY DIVERSION DIKES				
CHECK DAMS	X	X	X	X
TEMPORARY SEEDING AND PLANTING	X	X	X	X
PERMANENT SEEDING AND PLANTING				X
MYCORRHIZAE/ BIOFERTILIZERS				
MULCHES (SPECIFY TYPE)	X	X	X	X
CONSTRUCTION ENTRANCE	X	X	X	X
COMPOST BLANKETS				
COMPOST SOCKS				
COMPOST BERM				
SOIL TACKIFIERS				
SODDING VEGETATIVE BUFFER STRIPS				
PLASTIC SHEETING*	X	X	X	X
SEDIMENT FENCING	X	X	X	X
EROSION CONTROL BLANKETS AND MATS				
EARTH DIKES (STABILIZED)				
DRAINAGE SWALES				
ROCK OUTLET PROTECTION**	X	X	X	X
SEDIMENT TRAP				
STRAW WATTLES (LOOSE COMPACTION RICE STRAW)				
STORM DRAIN INLET PROTECTION				
TEMPORARY OR PERMANENT SEDIMENTATION BASINS				
UNPAVED ROADS GRAVELED OR OTHER BMP ON THE ROAD				
DEWATERING (TREATMENT LOCATION, SCHEMATIC, & SAMPLING PLAN REQUIRED)				
PAVING OPERATIONS CONTROLS				
CONCRETE TRUCK WASHOUT	X	X	X	X

* SIGNIFIES BMP THAT WILL BE INSTALLED DURING ANY WET WEATHER.
** SIGNIFIES BMP THAT WILL BE INSTALLED AFTER MASS GRADING.

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 BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 503-246-6699.

SHEET INDEX

SITE SOIL CLASSIFICATION:

ACCORDING TO AN ENGINEERING GEOLOGIC DESIGN REPORT BY DAVID RANKIN OF GEO CONSULTANTS NORTHWEST, DATED FEBRUARY 7TH, 2017, THE FOLLOWING SOILS EXIST ON THE PROPERTY:

- UPPER FIELD: LAURELWOOD SILT LOAM, 3% TO 8% SLOPES (NRCS MAP UNIT 28B). HYDROLOGIC SOIL GROUP B.
- EMBANKMENT BETWEEN UPPER & LOWER FIELD: LAURELWOOD SILT LOAM, 12% TO 20% SLOPES (NRCS MAP UNIT 28D). HYDROLOGIC SOIL GROUP B.
- LOWER FIELD: WAPATO SILTY CLAY LOAM (NRCS MAP UNIT 43). HYDROLOGIC SOIL GROUP C.

DEPTH TO ANY RESTRICTIVE LAYER IS ESTIMATED TO BE 6.5' OR GREATER. GROUNDWATER WAS ENCOUNTERED APPROXIMATELY 13' BELOW GROUND SURFACE IN TEST PITS.

RECEIVING WATER BODIES

IHLER CREEK

PROPERTY DESCRIPTION

WASHINGTON COUNTY TAX ASSESSOR MAP
1N 4 6 FOR NORTHERN PORTION OF TAX LOT 800
1N 4 7 FOR PROJECT SITE ON TAX LOT 800

PROPERTY LOCATION

THE PROPERTY IS LOCATED APPROXIMATELY 1.5 MILES NORTHWEST OF GALES CREEK AND 0.3 MILES SOUTH OF THE INTERSECTION OF NW IHLER CREEK LANE AND NW OLD WILSON RIVER ROAD. THE ADDRESS OF THE PROPERTY IS 54160 NW OLD WILSON RIVER ROAD, GALES CREEK, OREGON 97117.

THE PROPOSED DAM IS LOCATED AT APPROXIMATELY (USING GOOGLE EARTH):
LATITUDE: 45.59123
LONGITUDE: -123.23723

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2 - EROSION AND SEDIMENT CONTROL PLAN

MARGIT RUDY
1503 BIRCH STREET
FOREST GROVE, OR 97116

REV.	DATE	DESCRIPTION	BY

Stuntzner Engineering & Forestry, LLC
ENGINEERING • LAND SURVEYING • FORESTRY
PLANNING • WATER RIGHTS
• COOS BAY • DALLAS • FOREST GROVE • JUNCTION CITY •
2318-B PACIFIC AVENUE
FOREST GROVE, OREGON 97116
TEL: (503) 357-5717
FAX: (503) 357-5698

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 13, 1988
WILLIAM L. FLATZ
EXPIRES 12/31/19

Jun 07, 2018 - 10:22am
Y:\2016\316067 Rudy, Margit\dwg\RUDY GRADING PERMIT - B.dwg

DESIGNED BY:	WLF
DRAWN BY:	NGB
CHECKED BY:	NGB/WLF
DATE:	6-7-2018
REVISED:	
JOB NAME:	RUDY RESERVOIR
JOB No.:	316067
SHEET	2 OF 7

R-88679

RUDY RESERVOIR - EROSION AND SEDIMENT CONTROL DETAILS

LOCATED IN THE SW 1/4 OF SECTION 6 AND NW 1/4 OF SECTION 7, T1N, R4W, W.M.
TAX LOT 800, WASHINGTON COUNTY, OREGON

DUST CONTROL NOTES

DUST SHALL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE, UTILIZING ALL MEASURES NECESSARY, INCLUDING BUT NOT LIMITED TO: SPRINKLER ACCESS ROAD AND OTHER EXPOSED DUST PRODUCING AREAS, APPLYING AGENCY-APPROVED DUST PALLIATIVES ON ACCESS ROAD, ESTABLISHING TEMPORARY VEGETATIVE COVER, PLACING WOOD CHIPS OR OTHER EFFECTIVE MULCHES ON VEHICLE USE AREA SURFACES, USE OF COVERED HAUL EQUIPMENT.

CONTRACTOR SHALL FURNISH AND INSTALL EQUIPMENT TO HAUL AND PLACE WATER. AN ADEQUATE SUPPLY OF WATER SHALL BE MAINTAINED AT ALL TIMES.

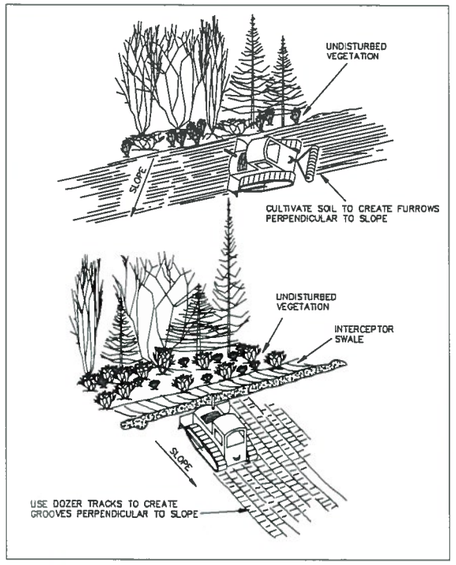
EROSION CONTROL SEEDING/MULCHING/FERTILIZER NOTE:

WHEN AREAS ARE BROUGHT TO FINISH GRADE THEY ARE TO BE PLANTED WITH PERMANENT VEGETATION OR SEEDED WITH TEMPORARY EROSION CONTROL GRASS AS LISTED BELOW:

DWARF GRASS MIX (LOW HEIGHT, LOW MAINTENANCE):
ELKA DWARF PERENNIAL RYEGRASS, 80% BY WEIGHT;
CREEPING RED FESCUE, 20% BY WEIGHT.
APPLICATION RATE: 100 POUNDS MINIMUM PER ACRE.

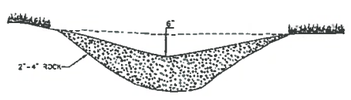
FERTILIZER: 16-20-0 AT 500 POUNDS PER ACRE.

AFTER SEEDING ALL DISTURBED AREAS ARE TO BE COVERED WITH STRAW MULCH AT A RATE OF 2.5 TONS PER ACRE.

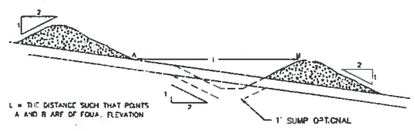


SURFACE ROUGHENING CAT TRACKING

4 / 3 NTS



ROCK CHECK DAM



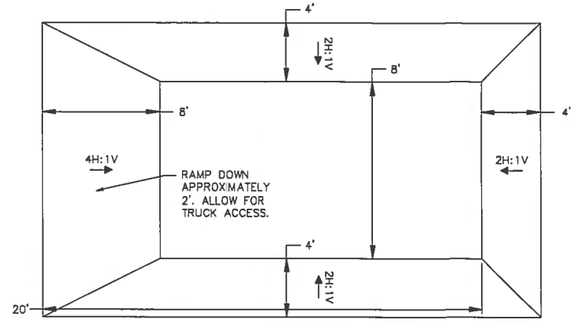
SPACING BETWEEN CHECK DAMS

ROCK CHECK DAM NOTES:

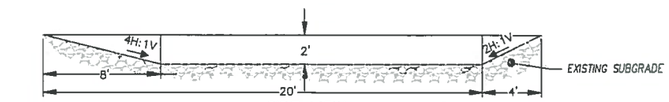
1. CHECK DAMS SHALL BE INSTALLED IN THE DITCH AT THE OUTLET OF THE EMERGENCY OVERFLOW SPILLWAY AFTER THE TOP SOIL IS STRIPPED FROM THE SITE.
2. CHECK DAMS SHALL BE LARGE ENOUGH TO SLOW ANY RUNOFF FLOW WITHIN THE DITCH.
3. THESE CHECK DAMS SHALL BE MONITORED AND MOVED OR ADDED TO AS REQUIRED.

ROCK CHECK DAM

7 / 3 NTS



TOP VIEW



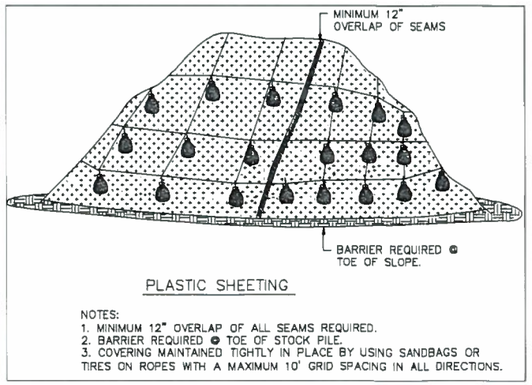
SIDE VIEW

NOTES:

1. THE OWNER MAY USE AN ALTERNATIVE DESIGN FOR A CONCRETE TRUCK WASHOUT. CONTACT ENGINEER FOR APPROVAL OF ALTERNATIVE DESIGN.

CONCRETE TRUCK WASHOUT

2 / 3 NTS

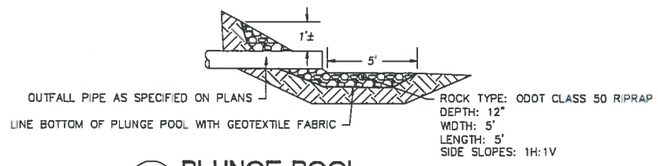


PLASTIC SHEETING

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

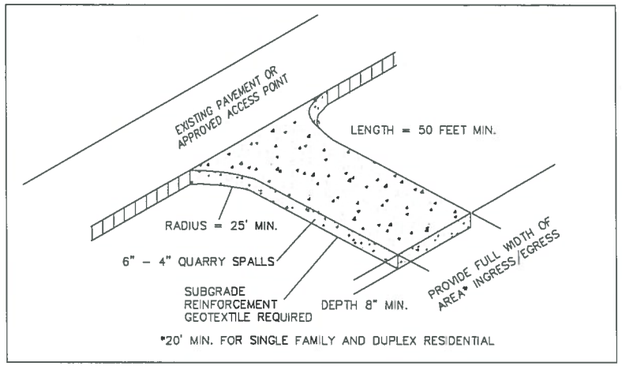
PLASTIC SHEETING

5 / 3 NTS



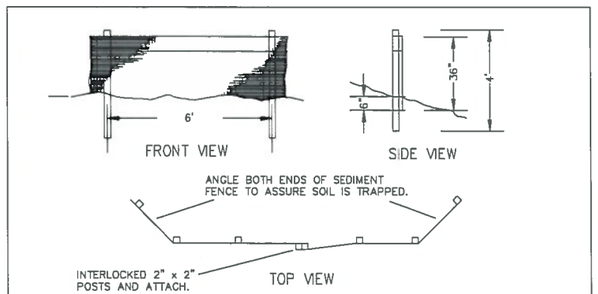
PLUNGE POOL

1 / 3 NTS



CONSTRUCTION ENTRANCE

3 / 3 NTS



INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.

REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

NOTES:
1. BURY BOTTOM OF FILTER FABRIC 6" MIN. VERTICALLY BELOW GRADE.
2. 2" x 2" FIR, PINE, OR STEEL FENCE POSTS.
3. STITCHED LOOPS TO BE INSTALLED UPHILL SIDE OF SLOPE.
4. COMPACT NATIVE FILL IN ALL AREAS OF FILTER FABRIC TRENCH.

SILT FENCE

6 / 3 NTS

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3 - EROSION AND SEDIMENT CONTROL DETAILS

MARGIT RUDY
1503 BIRCH STREET
FOREST GROVE, OR 97116

REV.	DATE	DESCRIPTION	BY

Stuntzner Engineering & Forestry, LLC
ENGINEERING • LAND SURVEYING • FORESTRY PLANNING • WATER RIGHTS
TEL: (503) 357-6717
FAX: (503) 357-6698
2318-B PACIFIC AVENUE
FOREST GROVE, OREGON 97116

REGISTERED PROFESSIONAL ENGINEER #53,005 OREGON JULY 13, 1995 WILLIAM L. FLATZ
EXPIRES 12/31/19

DESIGNED BY: WLF	
DRAWN BY: NGB	
CHECKED BY: NGB/WLF	
DATE: 8-7-2018	
REVISED:	
JOB NAME: RUDY RESERVOIR	
JOB No.: 316067	SHEET 3 OF 7

Y:\2016\316067 Rudy, Margit\dwg\RUDY GRADING PERMIT - B.dwg Jun 07, 2018 - 10:22am

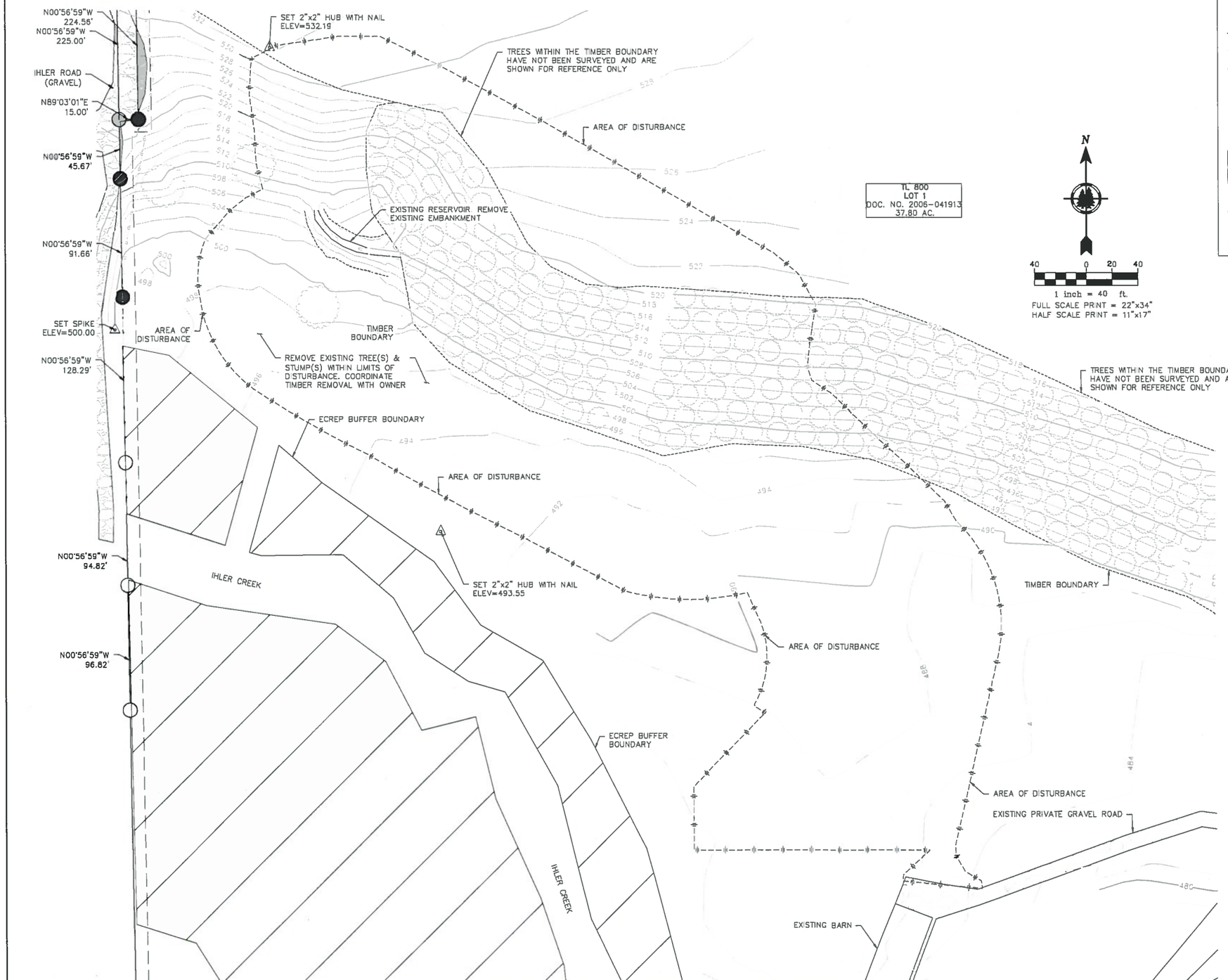
R-88679

RUDY RESERVOIR - EXISTING CONDITIONS, AUGUST 2016

LOCATED IN THE SW 1/4 OF SECTION 6 AND NW 1/4 OF SECTION 7, T1N, R4W, W.M.
WASHINGTON COUNTY, OREGON

TREE LOCATION NOTES

REMOVE TREES AND STUMPS WITHIN THE DAM FOOTPRINT AND BORROW AREA AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND LOCATION FOR STUMPS AND CUT TREES WITH THE OWNER.



EXISTING SITE CONDITIONS, AUGUST 2016

SCALE: 1"=40'

LEGEND

- PROPERTY LINE (UNSURVEYED): APPROXIMATE LOCATION BASED ON PARTITION PLAT NO. 1995-094
- SETBACK
- EXISTING MINOR CONTOUR (2' INTERVAL)
- EXISTING MAJOR CONTOUR (10' INTERVAL)
- SET CONTROL POINT
- EXISTING MONUMENT - CALCULATED
- FOUND 5/8" X 30" IRON ROD (IR) WITH RED PLASTIC CAP (RPC) MARKED "RYAN LS 58833" SET ON MAY 12TH, 2008
- ECREP BOUNDARY - DO NOT DISTURB
- EXISTING GRAVEL ROAD
- EXISTING TREE / STUMP
- AREA OF DISTURBANCE
- EXISTING FENCE
- EXISTING TOE OF EMBANKMENT

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4 - EXISTING CONDITIONS, AUGUST 2016

MARGIT RUDY
1503 BIRCH STREET
FOREST GROVE, OR 97116

REV.	DATE	DESCRIPTION	BY

Stuntzner Engineering & Forestry, LLC
ENGINEERING • LAND SURVEYING • FORESTRY
PLANNING • WATER RIGHTS
• COOS BAY • DALLAS • FOREST GROVE • JUNCTION CITY •
2316-B PACIFIC AVENUE
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EXPIRES 12/31/19

DESIGNED BY: WLF
DRAWN BY: NGB
CHECKED BY: NGB/WLF
DATE: 8-7-2018
REVISED:
JOB NAME: RUDY RESERVOIR
JOB No.: 316067 SHEET 4 OF 7

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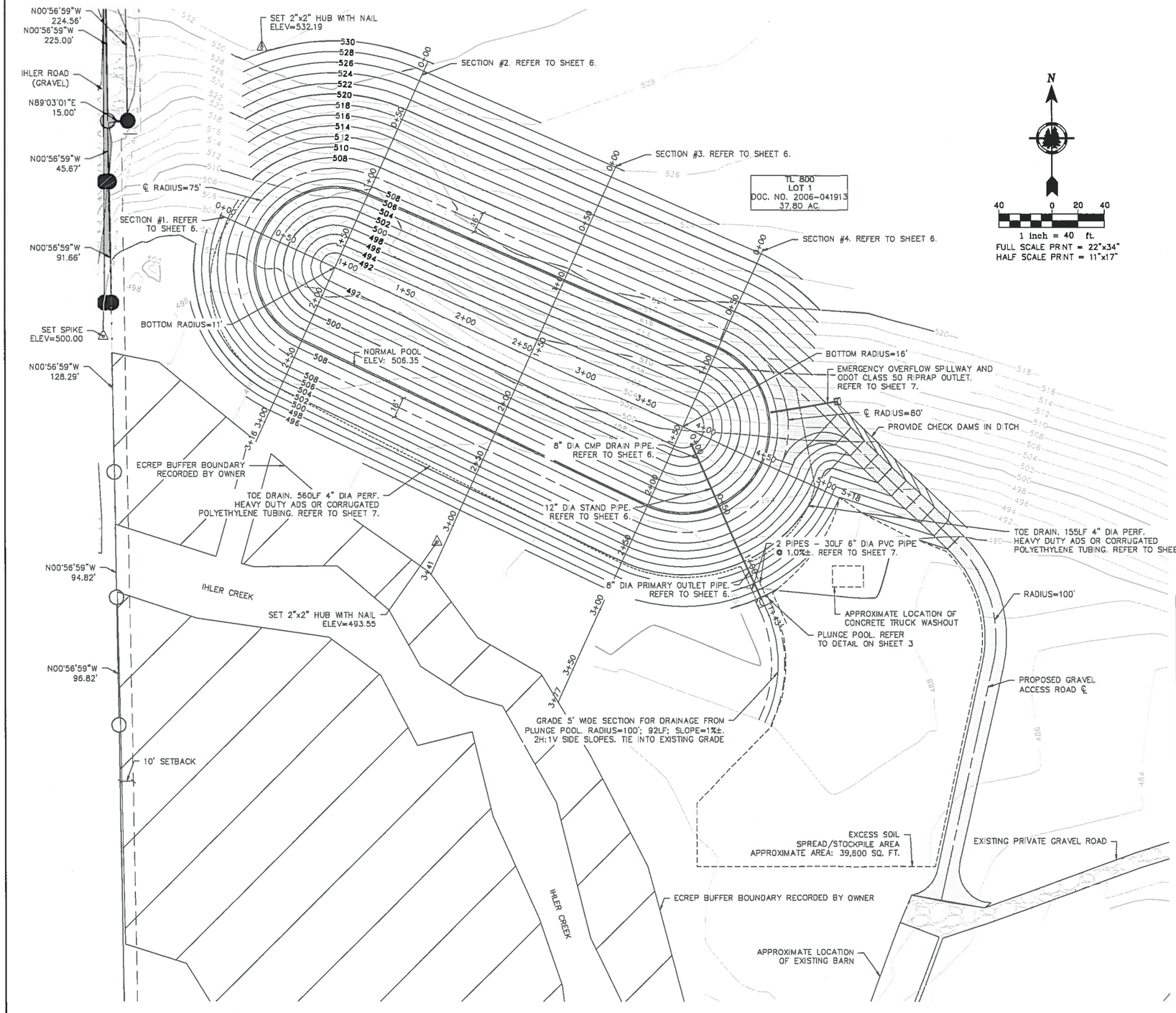
R-88679

RUDY RESERVOIR - GRADING PLAN AND DRAINAGE + ANALYSIS

LOCATED IN THE SW 1/4 OF SECTION 6 AND NW 1/4 OF SECTION 7, T1N, R4W, W.M.
WASHINGTON COUNTY, OREGON

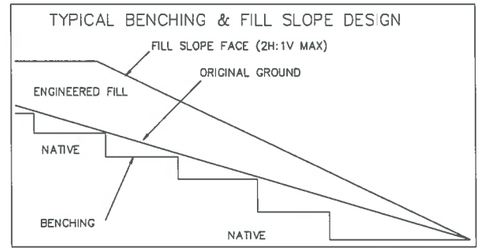
TREE LOCATION NOTES

REMOVE TREES AND STUMPS WITHIN THE DAM FOOTPRINT AND BORROW AREA AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND LOCATION FOR STUMPS AND CUT TREES WITH THE OWNER.



LEGEND

- PROPERTY LINE (UNSURVEYED): APPROXIMATE LOCATION BASED ON PARTITION PLAT NO. 1995-094
- SETBACK
- EXISTING MINOR CONTOUR (2' INTERVAL)
- EXISTING MAJOR CONTOUR (10' INTERVAL)
- PROPOSED MINOR CONTOUR (2' INTERVAL)
- PROPOSED MAJOR CONTOUR (10' INTERVAL)
- SET CONTROL POINT
- EXISTING MONUMENT - CALCULATED
- FOUND 5/8" X 30" IRON ROD (IR) WITH RED PLASTIC CAP (RPC) MARKED "RYAN LS 58833" SET ON MAY 12TH, 2008
- ECREP BOUNDARY - DO NOT DISTURB
- EXISTING GRAVEL ROAD
- PROPOSED GRAVEL ACCESS ROAD
- RIP RAP PAD
- EXISTING FENCE



BENCHING + FILL SLOPE DESIGN
1/5 NTS

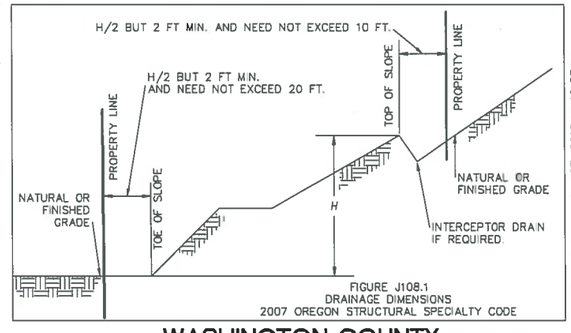


FIGURE J108.1
DRAINAGE DIMENSIONS
2007 OREGON STRUCTURAL SPECIALTY CODE

WASHINGTON COUNTY GRADING SETBACK DETAIL
2/5 NTS

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5 - GRADING PLAN AND DRAINAGE + ANALYSIS

MARGIT RUDY
1503 BIRCH STREET
FOREST GROVE, OR 97116

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JOB No.: 316067	SHEET 5 OF 7

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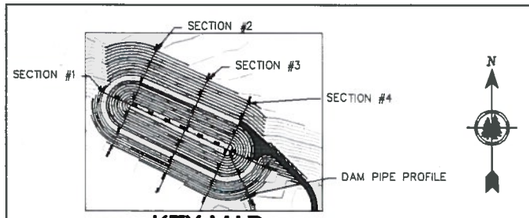
R-88639

RUDY RESERVOIR - DAM CROSS SECTIONS

LOCATED IN THE SW 1/4 OF SECTION 6 AND NW 1/4 OF SECTION 7, T1N, R4W, W.M.
WASHINGTON COUNTY, OREGON



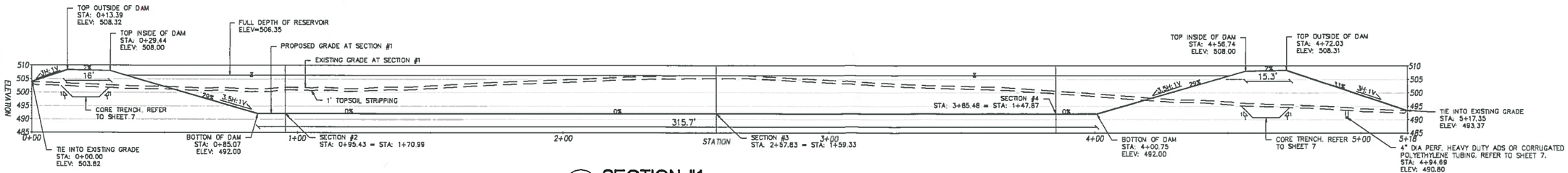
KEY MAP

SCALE: 1"=200'

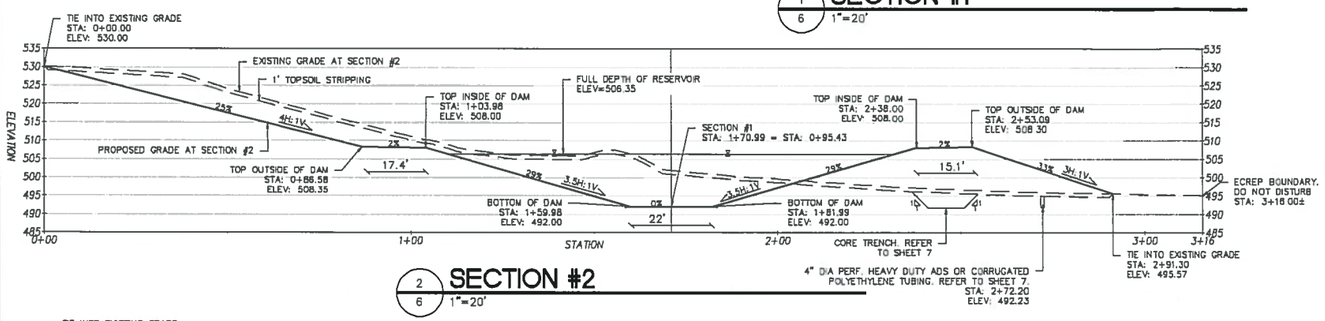
SECTIONS & PROFILE SCALE
1"= 20'
FULL SCALE PRINT = 22"X34"
HALF SCALE PRINT = 11"X17"

HORIZONTAL SCALE
20 0 10 20
1 inch = 20 ft.

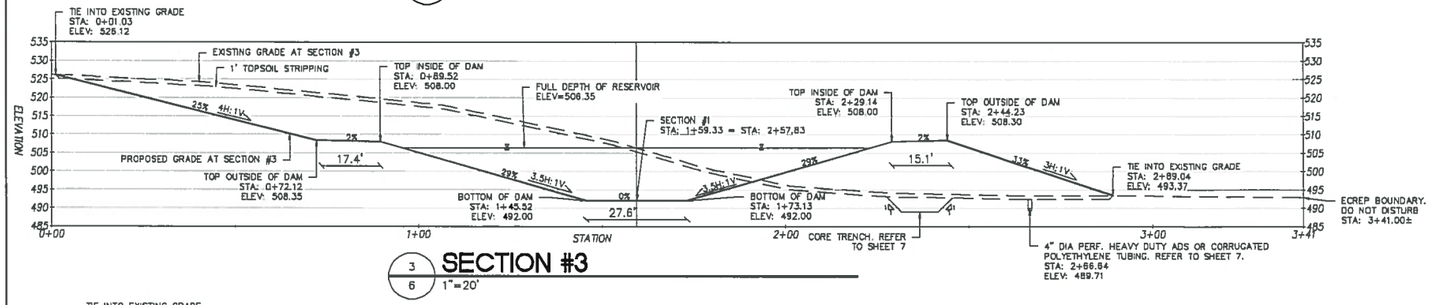
VERTICAL SCALE
20 10 0 10 20
1 inch = 20 ft.



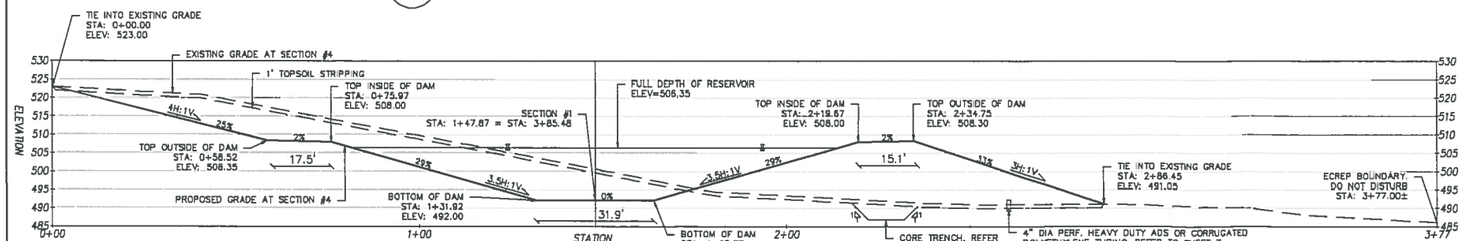
1/6 SECTION #1
1"=20'



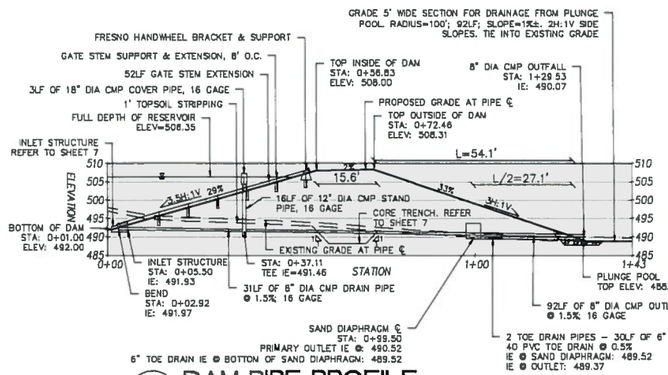
2/6 SECTION #2
1"=20'



3/6 SECTION #3
1"=20'



4/6 SECTION #4
1"=20'



5/6 DAM PIPE PROFILE
1"=20'

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OWRD

STUNTZNER ENGINEERING & FORESTRY, LLC MAKES NO REPRESENTATION AS TO THE EXISTENCE OR NON-EXISTENCE OF UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH THE PROVISIONS OF ORS 757.542 TO 757.562 & 757.993. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE RESULTING FROM DISRUPTION OF SERVICE CAUSED BY CONSTRUCTION ACTIVITIES.

6 - DAM CROSS SECTIONS

MARGIT RUDY
1503 BIRCH STREET
FOREST GROVE, OR 97116

REV	DATE	DESCRIPTION	BY

Stuntzner Engineering & Forestry, LLC
ENGINEERING • LAND SURVEYING • FORESTRY
PLANNING • WATER RIGHTS
• FOREST GROVE • JUNCTION CITY • COOS BAY • DALLAS •
2316-B PACIFIC AVENUE
FOREST GROVE, OREGON 97116
TEL: (503) 357-5717
FAX: (503) 357-6698

REGISTERED PROFESSIONAL ENGINEER #53,005 OREGON JULY 13, 1989 WILLIAM L. PLATT
EXPIRES 12/31/19

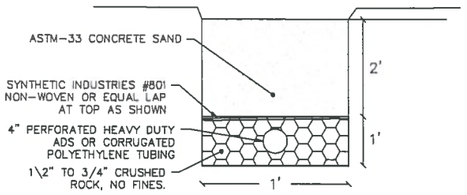
DESIGNED BY: WLP
DRAWN BY: NCB
CHECKED BY: NCB/WLP
DATE: 6-7-2018
REVISED:
JOB NAME: RUDY RESERVOIR
JOB No.: 316067 SHEET 6 OF 7

Y:\2016\316067 Rudy, Margit\dwg\RUDY GRADING PERMIT - B.dwg Jun 07, 2018 - 10:23am

R-88679

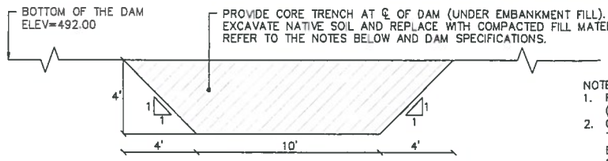
RUDY RESERVOIR - DAM DETAILS

LOCATED IN THE SW 1/4 OF SECTION 6 AND NW 1/4 OF SECTION 7, T1N, R4W, W.M.
WASHINGTON COUNTY, OREGON



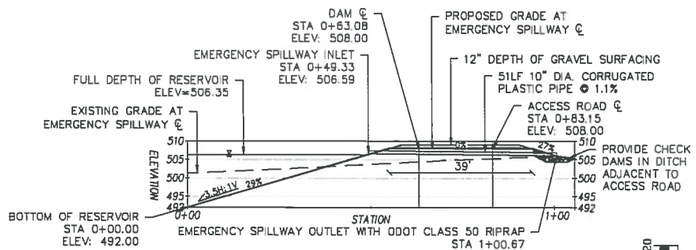
NOTES:
1. PROVIDE POSITIVE DRAINAGE FROM UPSTREAM END OF TOE DRAINS TO CONNECTION POINT AT SAND DIAPHRAGM.

1/7 TOE DRAIN DETAIL
NTS

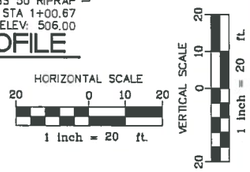


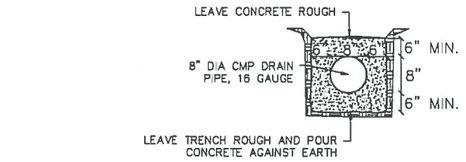
NOTES:
1. PROVIDE CORE TRENCH ON ALL SIDES OF THE DAM (UNDER EMBANKMENT FILL).
2. COMPACTED FILL MATERIAL SHALL BE NATIVE SOIL THAT IS FREE OF ORGANICS (BRUSH, ROOTS, SOD, ETC.) AND PERISHABLE DEBRIS. THE FILL MATERIAL SHALL BE FREE OF STONES HAVING MAXIMUM DIMENSIONS OF MORE THAN 5". REMOVE ANY STONES OR ORGANICS BEFORE COMPACTION.
3. FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8" IN DEPTH PRIOR TO COMPACTION.
4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND GEOLOGIST 24 HOURS PRIOR TO ANY CORE TRENCH BACKFILL.

2/7 CORE TRENCH DETAIL
NTS

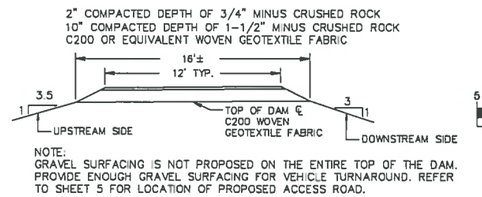


3/7 EMERGENCY SPILLWAY PROFILE
1"=20'



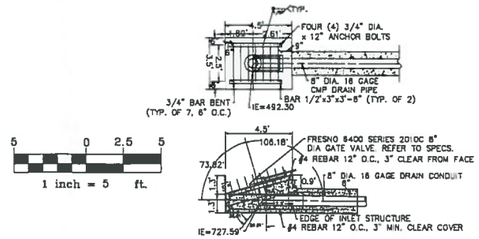


4/7 PIPE ENCASEMENT (DRAIN + PRIMARY OUTLET PIPES)
NTS

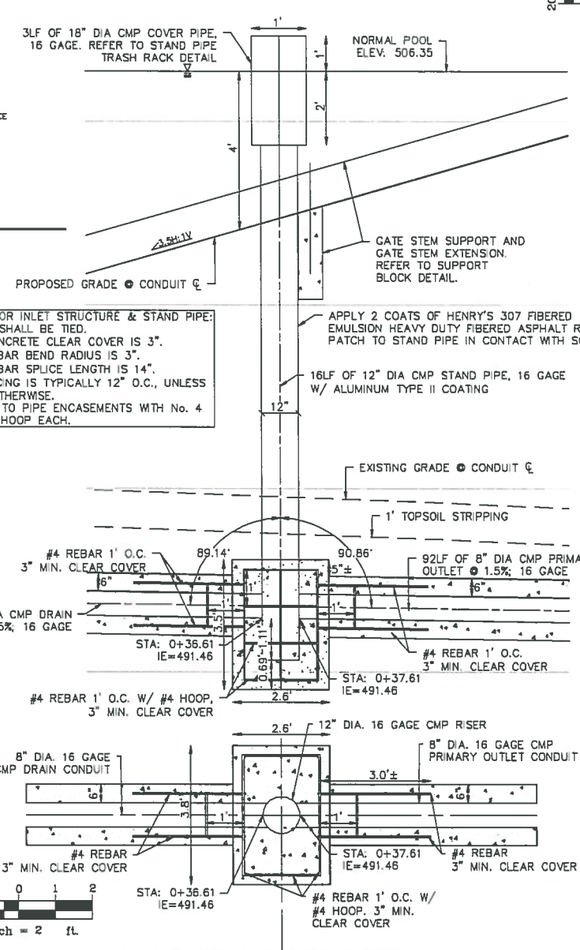


NOTE:
GRAVEL SURFACING IS NOT PROPOSED ON THE ENTIRE TOP OF THE DAM. PROVIDE ENOUGH GRAVEL SURFACING FOR VEHICLE TURNAROUND. REFER TO SHEET 5 FOR LOCATION OF PROPOSED ACCESS ROAD.

5/7 ACCESS ROAD TO DAM
NTS

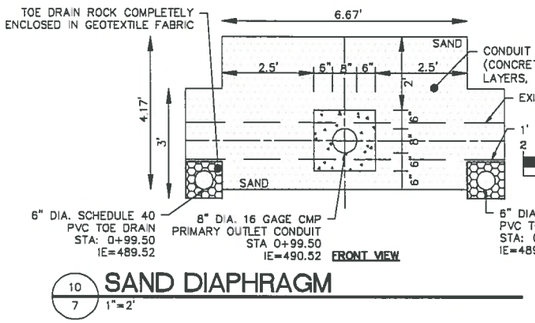


6/7 INLET STRUCTURE
1"=5'



REBAR NOTES FOR INLET STRUCTURE & STAND PIPE:
1. ALL REBAR SHALL BE TIED.
2. MINIMUM CONCRETE CLEAR COVER IS 3".
3. MINIMUM REBAR BEND RADIUS IS 3".
4. MINIMUM REBAR SPLICE LENGTH IS 14".
5. REBAR SPACING IS TYPICALLY 12" O.C., UNLESS SPECIFIED OTHERWISE.
6. TIE BLOCKS TO PIPE ENCASEMENTS WITH No. 4 REBAR + 1 HOOP EACH.

9/7 CONDUIT + RISER DETAIL
1"=2'



7/7 STAND PIPE TRASH RACK DETAIL
NTS

10/7 SAND DIAPHRAGM
1"=2'

8/7 SUPPORT BLOCKS
NTS

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7 - DAM DETAILS

MARGIT RUDY
1503 BIRCH STREET
FOREST GROVE, OR 97116

REV.	DATE	DESCRIPTION	BY

Stuntzner Engineering & Forestry, LLC
ENGINEERING • LAND SURVEYING • FORESTRY PLANNING • WATER RIGHTS
• COOS BAY • DALLAS • FOREST GROVE • JUNCTION CITY •
2316-B PACIFIC AVENUE
FOREST GROVE, OREGON 97116
TEL: (503) 357-6717
FAX: (503) 357-6698

REGISTERED PROFESSIONAL ENGINEER #55,005 OREGON JULY 13, 1999 WILLIAM L. FLANZ
EXPIRES 12/31/19

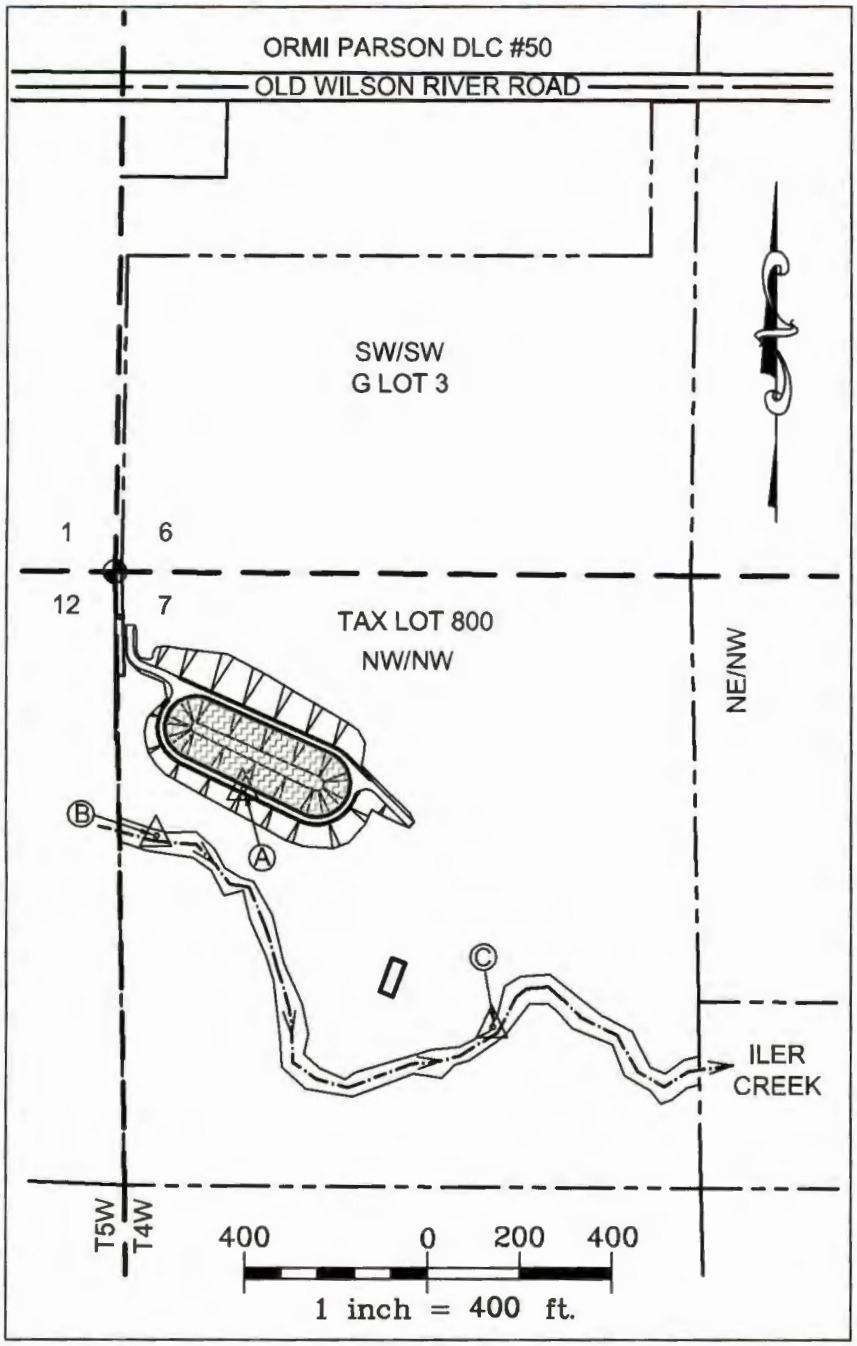
Y:\2016\316067 Rudy, Margit\dwg\RUDY GRADING PERMIT - B.dwg Jun 07, 2018 - 10:23am

DESIGNED BY: WLF
DRAWN BY: MGB
CHECKED BY: MGB/WLF
DATE: 6-7-2018
REVISED:
JOB NAME: RUDY RESERVOIR
JOB No.: 316067 SHEET 7 OF 7

R-88679

WATER RIGHT APPLICATION MAP

T1N, R4W, SECTIONS 6+7, TAX LOT 800, WASHINGTON COUNTY, W.M.



PROPERTY ADDRESS:
54160 NW OLD WILLSON RIVER ROAD,
GALES CREEK, OR 97117

IN THE NAME OF:
MARGIT RUDY
1503 BIRCH STREET
FOREST GROVE, OR 97006

A) POD: RUDY DAM, RUNOFF AND STORAGE THIS APPLICATION.
470' S. AND 280' E. FROM NW. SEC. CORNER SEC. 7.

B) POD: CERT. 43875, CERT 43874, THIS APPLICATION.
500' S. AND 80' E. FROM THE NW. SEC. CORNER SEC. 7.

C) POD: CERT. 43875, CERT. 43874, CERT. 43883.
980' S. AND 800' E. FROM THE NW. SEC. CORNER SEC. 7.

RECEIVED
NOV 15 2018
OWRD

MAP BASIS: CERTIFICATE #43875 MAP,
TAX MAP 7, T1N, R4W, W.M.,
GOOGLE AIR PHOTOS
SEF JOB # 316-067, DATE 8-28-18
DRAWING # RUDY WATER RIGHTS

NOTE: THIS MAP IS PRODUCED TO INDICATE THE LOCATION OF A WATER RIGHT. IT IS NOT INTENDED TO PROVIDE INFORMATION RELATIVE TO THE LOCATION OF PROPERTY LINES.

Certified Water Right Examiner
#53,005
William L. Flatz
May, 21 2001
STATE OF OREGON
EXPIRES 12/31/2019