NEW SUNCADIA, L.L.C.



PROJECT DIRECTORY

DEVELOPER NEW SUNCADIA, LLC 770 SUNCADIA TRAIL CLE ELUM, WA 98922 PHONE (509) 649-3000 FAX (509) 649-3059

CIVIL ENGINEER / SURVEYOR ESM CONSULTING ENGINEERS, LLC 33400 8TH AVE. S., STE. #205 PHONE (253) 839-6113 FAX (253) 838-7104 LAURA G BARTENHAGEN, PE, LEED AP KEITH COMBS

GEOTECHNICAL ENGINEER
GOLDER ASSOCIATES INC.
18300 NE UNION HILL ROAD, SUITE 200
REDMOND, WA 98052-3333
PHONE (425) 883-077
FAX (425) 882-5498 RICHARD D LUARK, LEG, PE

AGENCIES KITTITAS COUNTY DEPARTMENT OF PUBLIC WORKS 411 N. RUBY ELLENSBURG, WA 98926

SURVEY DATA

HORIZONTAL DATUM
THE HORIZONTAL DATUM FOR ALL PROJECT MAPPING IS NORTH AMERICAN DATUM OF 1983/1991 (NAD 83/91)
(WASHINGTON SOUTH ZONE). THE MAPPING WAS MOVED FROM STATE PLANE COORDINATES TO PROJECT DATUM

BASED ON A COMBINED SCALE FACTOR OF 0.999870387

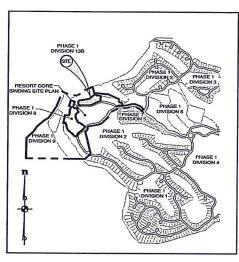
VERTICAL DATUM
THE VERTICAL DATUM FOR ALL PROJECT MAPPING IS
NGVD 1929, AS PROVIDED BY AMERICAN ENGINEERING

PROJECT BENCHMARK
BENCH MARK DISK L 525 1982, LOGO MARK - NGS
NGVD 29 ELEVATION 2026.05
LOCATION; SET IN TOP NORTH END OF WEST CURB OF THE INTERSTATE 90 HIGHWAY OVERPASS ALONG STATE HIGHWAY 903.

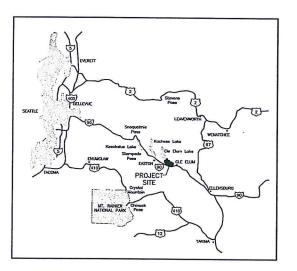
LOT & UTILITY CONSTRUCTION PLANS

FOR

OSPREY RIDGE NOVEMBER 11, 2014



LOCATION MAP







33400 8th Avenue South., Suite 205 Federal Way, Washington 98003 Phone: (253) 838-6113 ESM JOB NO.: 998-870-014

SHEET INDEX

SHE	ET NO	DRAWING NAME	DESCRIPTION
<u> </u>	LINO	DIGITATIO TO THE	DEBORIT FICH
	1	COVER	COVER SHEET
	2	NT-01	NOTES AND LEGEND
	3	SD-01	STORM DRAINAGE & GRADING PLAN
	4	SS-01	L.P.S.S. PLAN & PROFILE & WATER SERVICES
	5	DT-01	ROAD & STORM DRAINAGE DETAILS
	6	DT-02	WATER DETAILS & NOTES
	7	DT-03	L.P.S.S. DETAILS & NOTES
	8	ER-01	T.E.S.C. PLAN
	9	ER-02	T.E.S.C. DETAILS & NOTES

NOV 1 8 2014

KITTITAS COUNTY

CDS

APPROVED FOR CONSTRUCTION

KITITAS COUNTY ENGINEER

SURVEY				
	SET HUB AND TACK	8	ALDER	
⊠	FOUND HUB AND TACK	辯	CEDAR	
•	SET REBAR AND CAP	心	COTTONWOOD	
0	FOUND REBAR AND CAP	\odot	POPLAR	
+	SET PK-DRILL HOLE	€	APPLE	
+	FOUND PK-DRILL HOLE	影響	FIR	
	CALC CLOSING CORNER	0	WILLOW	
7	FOUND CLOSING CORNER	23	SPRUCE	
► MC	FOUND MEANDER CORNER	0	MADRONA	
MC MC	CALC MEANDER CORNER	63	OAK	
•	PROPOSED MONUMENT IN CASE		HEMLOCK	
Φ	FOUND MONUMENT IN CASE	\odot	MAPLE	
•	PROPOSED MONUMENT IN CASE	兴	PINE	
0	FOUND SURFACE MONUMENT			
•	PROPOSED SURFACE MONUMENT			
	CALC SECTION CORNER	L	ARC LENGTH	
-	FOUND SECTION CORNER	Δ	DELTA	
→	FOUND QUARTER CORNER	(R)	RADIAL BEARING < >	
D00	CALC QUARTER CORNER	(NR)	NON-RADIAL BEARING	
\bigcirc	CENTER SECTION	S.S.E.	SANITARY SEWER EASEMENT	
Ŏ	TAX LOT	P.S.D.E.	PRIVATE STORM DRAINAGE EASEMENT	
•wc	FOUND WITNESS CORNER	FF	ELEVATION OF MINIMUM BASEMENT FINISH FLOOR	
°wc	CALC WITNESS CORNER	S.D.E.	STORM DRAINAGE EASEMEN	

EARTHWORK QUANTITIES

CUT	6,065 CY
FILL	8,100 CY
NET FILL	2.035 CY

NOTE: EARTHWORK QUANTITIES ARE "NEAT LINE" ONLY AND DO NOT ACCOUNT FOR SHRINK OR SWELL FACTORS, FURTHERMORE, EXISTING TOPOGRAPHY IS A COMBINATION OF FIELD AND AERUAL INFORMATION. AERUAL TOPOGRAPHY MAY VARY FROM FIELD CONDITIONS. CONTRACTOR SHALL CALCULATE EARTHWORK VOLUMES FOR BID PURPOSES AND VERIFY EXISTING GRADES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

SOIL CONDITION AND GRADING NOTES

1. ALL EXCAVATION, TRENCHING, SUBGRADE PREPARATION, FILL PLACEMENT AND COMPACTION AND ALL SOIL WORK IN GENERAL SHALL BE CONDUCTED IN COMPLANCE WITH THE RECOMMENDATIONS INCLUDED IN THE GEOTECHNICAL REPORT COMPLETED BY GOLDER ASSOCIATES INC. AND DATED FEBRUARY 11,

2. FILL SHALL BE BENCHED ONTO SLOPES THAT EXCEED 4H:1V.

3. ALL UTILITY TRENCHES AND BORROW PITS SHALL BE BACKFILLED AND COMPACTED TO A MINIMUM 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D=1557 TEST METHOD.

. GROUNDWATER CONDITIONS VARY SEASONALLY. THE CONTRACTOR IS REQUIRED 4. GROUNDWATER CONDITIONS VARY SEASONALLY, THE CONTRACTOR IS REQUIRED TO REVIEW THE PROJECT GEOTECHNICAL ENGINEERING REPORT, PERFORM A SITE VISIT, AND OTHERWISE COMMUNICATE WITH THE GEOTECHNICAL ENGINEER TO FAMILLARIZE HIMSELF WITH GROUNDWATER CONDITIONS ON—SITE. DEWATERING OF UTILITY TRENCHES SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND INCORPORATED INTO THE VARIOUS BID ITEMS. CONTRACTOR SHALL DEVELOP A DEWATERING PLAN AS NECESSARY. DEWATERING MAY BE ACCOMPLISHED BY PUMPING FROM A SUMP IN THE UTILITY TRENCH OR BY WELL POINTS.

ENGINEER'S CONSTRUCTION NOTES

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) AND THE WASHINGTON STATE CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA) STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (LATEST EDITION), KITHITAS COUNTY, AND NEW SUNCADIA, LLC STANDARDS AND SPECIFICATIONS. THE STATE STANDARD SPECIFICATIONS AND PLANS SHALL BE MAINTAINED BY THE CONTRACTOR ON SITE DURING THE ENTIRE PERIOD OF THE CONSTRUCTION. DEFINITIONS NOTED AS "STATE" AND "CONTRACTING AGENCY" SHALL BE AMENDED TO READ "OWNER".
- 2. BEFORE ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY, A PRECONSTRUCTION MEETING MUST BE HELD BETWEEN THE CONSTRUCTION REPRESENTATIVE AND THE OWNER.
- UTILITIES AND GRADES SHALL BE CONSTRUCTED PER THE APPROVED PLANS. A COPY OF THE PROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS. CONSTRUCTION WORK HOURS FOR THE MPR SHALL BE FROM 7:00 A.M. UNTIL 7:00 P.M. MONDAY THROUGH SATURDAY. WORK ON SUNDAYS WILL BE ON AN EMERGENCY BASIS ONLY. EQUIPMENT SERVICING AND MAINTENANCE TIMES WILL BE UNRESTRICTED.
- SERVICING AND MAINEMANCE IMES WILL BE UNRESTRICTED.

 5. EXCEPT FOR EMERGENCY WORK, CONSTRUCTION CONTRACTOR SHALL NOT, ON OR WITHIN FIVE HUNDRED (500) FEET OF ANY NOISE SENSITIVE PROPERTY, OPERATE OR CAUSE TO BE OPERATED ANY EQUIPMENT USED IN CONSTRUCTION, REPAIR, ALTERATION, EXCAVATION, GRADING OR DEMOLITION WORK ON BUILDINGS, STRUCTURES, STREETS, ALLEYS, OR APPURIENANCES THERETO:

 A. WITH SOUND-CONTROL DEVICES LESS EFFECTIVE THAN THOSE PROVIDED ON THE ORIGINAL FOLIPPURE TAND
- EQUIPMENT; AND
- B. WITH NOISE LEVELS EXCEEDING:
- (I) 80 DB DURING ANY CALENDAR DAY FOR MORE THAN THREE (3) CONSECUTIVE OR NON-CONSECUTIVE CALENDAR DAYS IN A THREE HUNDRED SIXTY FIVE (355) DAY PERIOD.
 NOISE DETERMINATION TESTS SHALL BE FOR AT LEAST TEN (10) MINUTES, WITH ANY FOUR (4)
 TESTS IN CONSECUTIVE OR NON-CONSECUTIVE CLOCK HOURS ABOVE THE 80 DB LEVEL
 CONSTITUTING AN EXCEEDANCE FOR THAT DAY; OR
- (II) 90 DB DURING ANY CLOCK HOUR FOR MORE THAN FOUR (4) CONSECUTIVE OR NON-CONSECUTIVE CLOCK HOURS. TESTS SHALL BE FOR AT LEAST TEN (10) MINUTES, WITH ANY SINGLE TEST ABOVE THE 90 DB LEVEL CONSTITUTING AN EXCEEDANCE FOR THAT HOUR:
- C. A NOISE SENSITIVE PROPERTY SHALL MEAN ANY NON-OWNER PROPERTY OUTSIDE THE MASTER PLANNED RESORT (MPR). THE LOCATION OF SOUND LEVEL MEASUREMENTS SHALL BE ON ANY RECERMING NOISE—SENSITIVE PROPERTY OUTSIDE THE MPR, PROVIDED THAT EACH TEST IS TAKEN FROM THE SAME PROPERTY, AND THE PROVISIONS IN THIS SECTION SHALL APPLY TO THAT
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION EASEMENTS AND -WAY PERMITS NECESSARY BEFORE INITIATING OFF-SITE WORK WITHIN THE ROAD RIGHT-OF-WAY.
- FRANCHISED UTILITIES OR OTHER INSTALLATIONS THAT ARE NOT SHOWN ON THESE APPROVED PLANS SHALL NOT BE CONSTRUCTED UNLESS A SEPARATE SET OF PLANS HAS BEEN APPROVED BY THE REVIEWING AUTHORITY.
- 8. OPEN CUTTING OF EXISTING ROADWAYS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY KITITIAS COUNTY, OR OWNER (AS APPROPRIATE) AND NOTED ON THESE APPROVED PLANS. APPROVED CUTS OF EXISTING ROADS SHALL BE PERFORMED WITH A NEAT SAW CUT AND RESTORED PER THE APPROPRIATE JURISDICTIONAL STANDARDS.
- O CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF WORKERS AND THE PUBLIC, AND TO PROTECT PROPERTY AND WORK PERFORMED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RICHT-OF-WAY THAT INTERRUPTS NORMAL TRAFFIC FLOW REQUIRES AT LEST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. ALL SECTIONS OF THE WSDOT/APWA STANDARD SPECIFICATIONS 1-07.23, PUBLIC CONVENIENCE AND SAFETY, SHALL APPLY. 10. CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, HE IS REQUIRED TO ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION. THIS INCLUDES SAFETY OF ALL PERSONS AND PROPERTY. THIS RESPONSIBILITY SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR IS TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.
- 11. EXISTING UTILITIES AND UNDERGROUND STRUCTURES SHOWN ON THE PLAN ARE BASED UPON THE BEST AVAILABLE PUBLIC AND PRIVATE RECORDS, SURFACE UTILITY FEATURES OBTAINED BY SURVEY, AND VERBAL INFORMATION OBTAINED FROM REPRESENTATIVES OF FRANCHISED UTILITIES. NETHER THE OWNER NOR THE ENGINEER GUARANTEE THE ACCURACY OR COMPLETENESS OF HIS INFORMATION AND ASSUME NO RESPONSIBILITY FOR IMPROPER LOCATIONS OR FAILURE TO SHOW UTILITY LOCATIONS ON THE CONSTRUCTION PLANS.
- 12. THE CONTRACTOR SHALL CALL THE UTILITIES UNDERGROUND LOCATION CENTER (811) FOR FIELD LOCATION OF ALL UTILITIES AND SHALL NOT BEGIN EXCAVATION UNTIL ALL KNOWN UNDERGROUND UTILITIES IN THE VICINITY OF THE PROPOSED WORK HAVE BEEN LOCATED AND MARKED. FOR UTILITIES NOT SUBSCRIBING TO THE UNDERGROUND LOCATION CENTER, THE CONTRACTOR SHALL GIVE INDIVIDUAL NOTICE TO THE UTILITY AS PER SECTION 1-07.17 OF THE WSDOT/APWA STANDARD SPECIFICATIONS. 13. PRIOR TO COMMENCING SANITARY SEWER, STORM DRAIN, WATER MAIN AND OTHER UTILITY SERVICES, THE CONTRACTOR SHALL VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF THE PROPOSED TIE-IN LOCATIONS. THE CONTRACTOR SHALL IMMEDIATELY REPORT ANY DISCREPANCIES OR ALTERED LOCATION
- OF PROPOSED TIE-INS TO THE ENGINEER AND PUBLIC AGENCY(S). 14. IF EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE ENGINEER. THE CONTRACTOR SHALL RESTORE THE UTILITY TO ITS EXISTING CONDITION AS PER
- SECTION 1-07.17 OF THE WSDOT/APWA STANDARD SPECIFICATIONS.
- 15. WHERE THE PLANS CALL FOR UTILITIES TO BE RELOCATED BY OTHERS, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY FOR RELOCATION AND COORDINATE HIS WORK SO AS TO AVOID EXISTING AND FUTURE CONFLICTS.
- 16. DETECTABLE MARKING TAPE SHALL BE INSTALLED ON ALL PIPES.
- 17. AIR AND WATER POLLUTION LAWS THE ATTENTION OF THE CONTRACTOR IS CALLED TO THE STATUTES OF THE STATE OF WASHINGTON RELATING TO THE POLLUTION OF WATER AND AIR. THE CONTRACTOR SHALL CARRY OUT HIS OPERATIONS AND CONFORM WITH THE APPLICABLE SECTIONS OF THE STATE AND FEDERAL STATUTES AND ALL REGULATIONS ADOPTED PURSUANT THERETO.
- 18. Inspection The Contractor shall notify the appropriate agencies and departments for all required inspections prior to placing any utilities into service.
- 19. RECORD DRAWINGS THE CONTRACTOR SHALL MAINTAIN AT THE JOB SITE ONE FULL SIZE, REPRODUCIBLE SET OF THE APPROVED DRAWINGS AND ANY SUPPLEMENTAL DRAWINGS FOR RECORD KEEPING. ALL CHANGES MADE DURING THE COURSE OF CONSTRUCTION INCLUDING INVERT, DEPTH'S AND LOCATION OF ALL UTILITIES ENCOUNTERED, ETC., SHALL BE NEATLY MARKED ON THE REPRODUCIBLES. THE MARKED UP REPRODUCIBLES SHALL BE DELIVERED TO THE ENGINEER UPON COMPLETION OF THE WORK.
- 20. UNAUTHORIZED CHANGES AND USES CAUTION: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL REQUESTS FOR CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
- 21. PRIOR TO TRANSPORTING ANY OVERSIZED OR OVERWEIGHT HAULS ON WSDOT-MAINTAINED RIGHTS-OF-WAY, THE CONTRACTOR SHALL OBTAIN THE APPROPRIATE PERMIT FROM WSDOT.
- 22. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK OIN THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

DRAINAGE SPECIFICATIONS

1. STORMWATER STRUCTURES, CULVERTS AND CONDUITS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE WASHINGTON STATE CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION, LATEST EDITION (ENGLISH UNITS) EXCEPT AS OTHERWISE SPECIFIED, CONSTRUCTION SHALL CONFORM TO THE FOLLOWING SECTIONS OF SUCH STANDARDS SPECIFICATIONS:

7-02 CULVERTS
7-04 STORM SEWERS
7-05 MANHOLES, INLETS, CATCH BASINS, AND DRY WELLS
7-08 GEREAL PIPE INSTALLATION
9-04 DRAINAGE STRUCTURES, CULVERTS AND CONDUITS
MATERIAL STRUCTURES, CULVERTS AND CONDUITS

- 2. BACKFILL MATERIAL SHALL BE BANK RUN GRAVEL FOR TRENCH BACKFILL PER SECTIONS 9-03.19 OF THE WSDOT/APWA STANDARD SPECIFICATIONS, OR, WITH THE APPROVAL OF THE PROJECT GEOTECHNICAL ENGINEER, NATIVE MATERIAL OF SIMILAR CHARACTERISTICS TO BANK RUN GRAVEL FOR TIRCHC BACKFILL.
- ALL UTILITY TRENCHES SHALL BE BACKFILLED AND COMPACTED TO A MINIMUM 95 RCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D-1557 TEST
- 4. ALL DRAINAGE STRUCTURES, SUCH AS CATCH BASINS AND MANHOLES, NOT LOCATED WITHIN A TRAVELED ROADWAY SHALL HAVE SOLID LOCKING LIDS. ALL DRAINAGE STRUCTURES ASSOCIATED WITH A PERMANENT RETENTION/DETENTION FACILITY SHALL HAVE SOLID LOCKING LIDS.
- 5. ALL CONCRETE STORM DRAINAGE CATCH BASINS SHALL BE WSDOT/APWA TYPE 1 3. ALL CONCRETE STORM DISCOVERED STATE C-478 (MSDOT STANDARD PLAN B-1) UNLESS OTHERWISE NOTED AS TYPE 1L TYPE 1L CATCH BASINS SHALL CONFORM WITH MSDOT STANDARD PLAN B-19 EACCEPT THE MAXIMUM DEPTH SHALL BE 6 FEET. WITH WSDOT STANDARD PLAN B=10 EXCEPT THE MAXIMUM DEPTH SHALL BE 6 FEEL ALL CATCH BASIN COVERS SHALL BE PER ASTIM A-536 AND WSDOT/APWA STANDARDS. CATCH BASINS DEEPER THAN 6 FEET (RIM TO INVERT) SHALL BE PRECAST TYPE 2 (WSDOT STANDARD PLAN B—1E) MEETING THE REQUIREMENTS OF ASTM C-478 AND JOINTS MEETING THE REQUIREMENTS OF ASTM C-443. TYPE 2 CATCH BASINS SHALL BE EQUIPPED WITH SAFETY STEPS PER WSDOT/APWA STANDARD PLANS. SAFETY STEPS SHALL BE ORIENTED IN THE CATCH BASIN SUCH THAT IMPEDIMENTS TO ENTRY ARE A MINIMUM OF 24-INCHES FROM THE STEPS.
- 6. ALL STORM DRAIN AND CULVERT PIPE (SD) SHALL BE CONSTRUCTED OF ONE OF THE FOLLOWING MATERIALS UNLESS OTHERWISE SPECIFIED IN THE PLANS.
- A. DUCTILE IRON (DI) 24-INCH DIAMETER AND SMALLER SHALL BE CLASS 50 CONFORMING TO AWWA C-151 (WHEN SHOWN ON THE PLANS.)
- B. CONCRETE (CONC) 4-INCH THROUGH 12-INCH DIAMETER PIPE SHALL BE NON-REINFORCED, BELL AND SPIGOT WITH RUBBER GASKET JOINTS, CONFORMING TO ASTM C-14 (CLASS 3), OR ASTM C-76 (CLASS 3) FOR 12-INCH TO
- C. PYC 4-INCH THROUGH 15-INCH DIAMETER PIPE, SHALL BE IN ACCORDANCE WITH ASTM D-3034 SDR 35 AND ASTM F-679 FOR 18-INCH TO 24-INCH PIPE. ALL JOINTS SHALL BE PUSH-ON RUBBER GASKET CONFORMING TO ASTM F-477.
- D. CORRUGATED HIGH DENSITY POLYETHYLENE PIPE WITH SMOOTH INTERIOR, CONFORMING TO AASHTO DESIGNATION M-294S.
- E. HIGH DENSITY POLYETHYLENE PIPE (HDPP): HDPP SHALL COMPLY WITH THE REQUIREMENTS OF AWAY C906 FOR PIPE MATERIALS AND PRESSURE RATING AS

STANDARD PE CODE DESIGNATION - PE 3408 STANDARD DIMENSION RATIO — MAXIMUM 32.5 PRESSURE CLASS — MINIMUM 50 PSVG

- 7. ALL PIPE COUPLINGS SHALL BE WATERTIGHT TO 2 PSI (MINIMUM). MINIMUM COVER AT ALL TIMES SHALL BE 1.5 FEET OR 1 FOOT FOR DUCTILE IRON. ADAPTERS AT MANHOLES AND CATCH BASINS SHALL BE WATERTIGHT TO 6.5 PSI
 - ALL PIPE ARCH IN SIZES TO 95 INCHES X 67 INCHES SHALL BE CONSTRUCTED OF ONE OF THE FOLLOWING MATERIALS UNLESS OTHERWISE SPECIFIED IN THE PLANS.
- A.

 1. HELICAL CORRUGATED ALUMINUM PIPE (CAP) SHALL BE 14 GAUGE WITH 2-2/3 INCH X 1/2 INCH CORRUGATIONS MEETING THE REQUIREMENTS OF ASSITIO M-129. THE MAXIMUM DEPTH OF COVER IS 10-FEET. HELICAL ALUMINIZED CORRUGATED STEEL PIPE (CSP) SHALL BE 16 GAUGE WITH 2-2/3 INCH X
- 2. 1/2 CORRUGATIONS MEETING THE REQUIREMENTS OF AASHTO M-167. THE MAXIMUM DEPTH OF COVER IS 10-FEET.
- 8. ALL LOT DRAINAGE IS THE RESPONSIBILITY OF INDIVIDUAL PROPERTY OWNERS PER NEW SUNCADIA DESIGN STANDARDS.

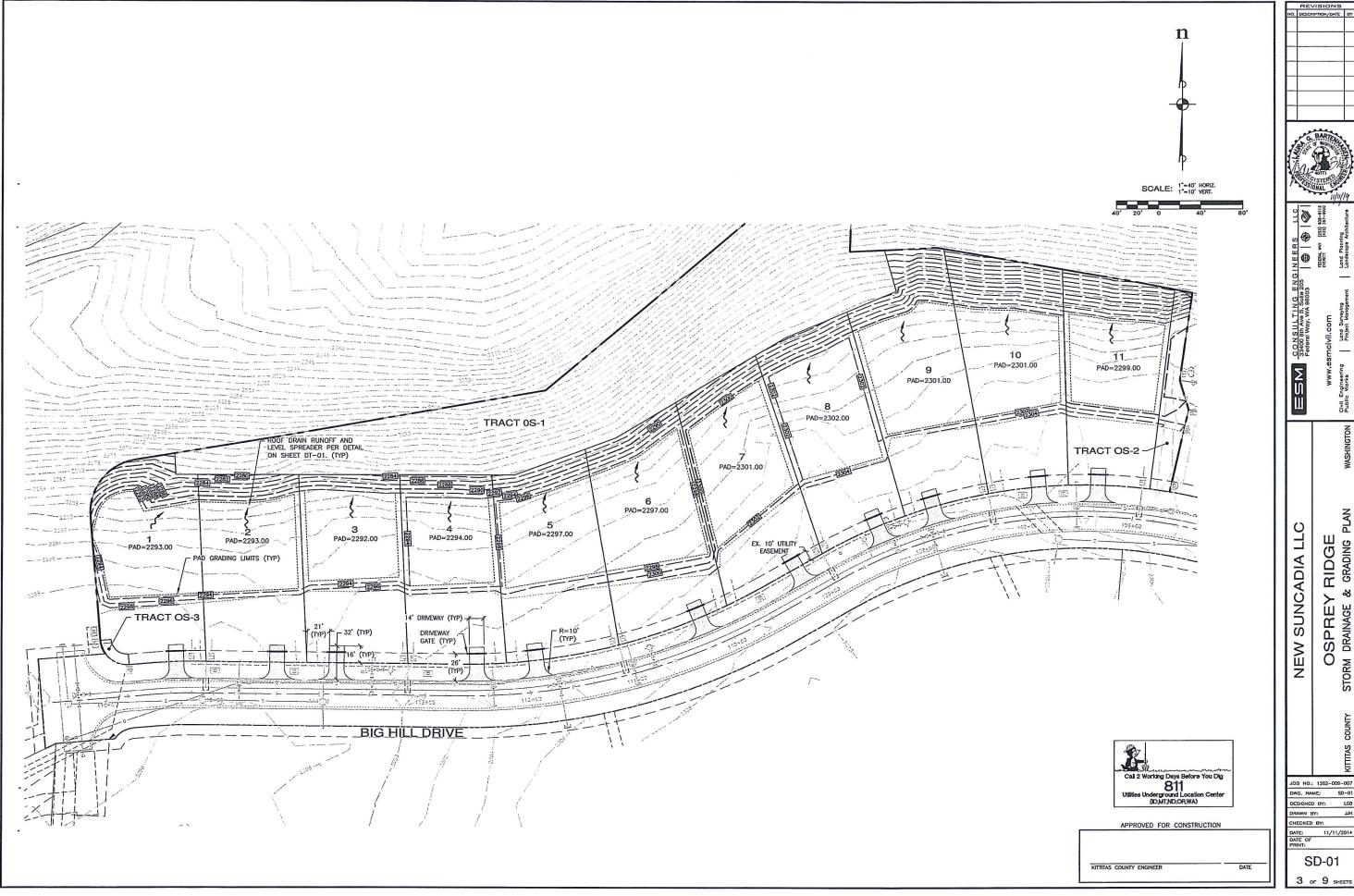
APPROVED FOR CONSTRUCTION KITTITAS COLINTY ENGINEER DATE

CONSULTING ENGINEERS
33400 Bit Ave S, Suite 205
Federal Way, WA 98003 **35** Land S Project _ ΣN Civil Engineerle Public Works 님 Ш RIDGI CADIA SPREY NOTES AND Ž S NEW Ö

OB NO.: 1262-009-00 WG. NAME: NT-C DESIGNED BY: DRAWN BY: CHECKED BY: 11/11/201

NT-01

2 of 9 SHEETS

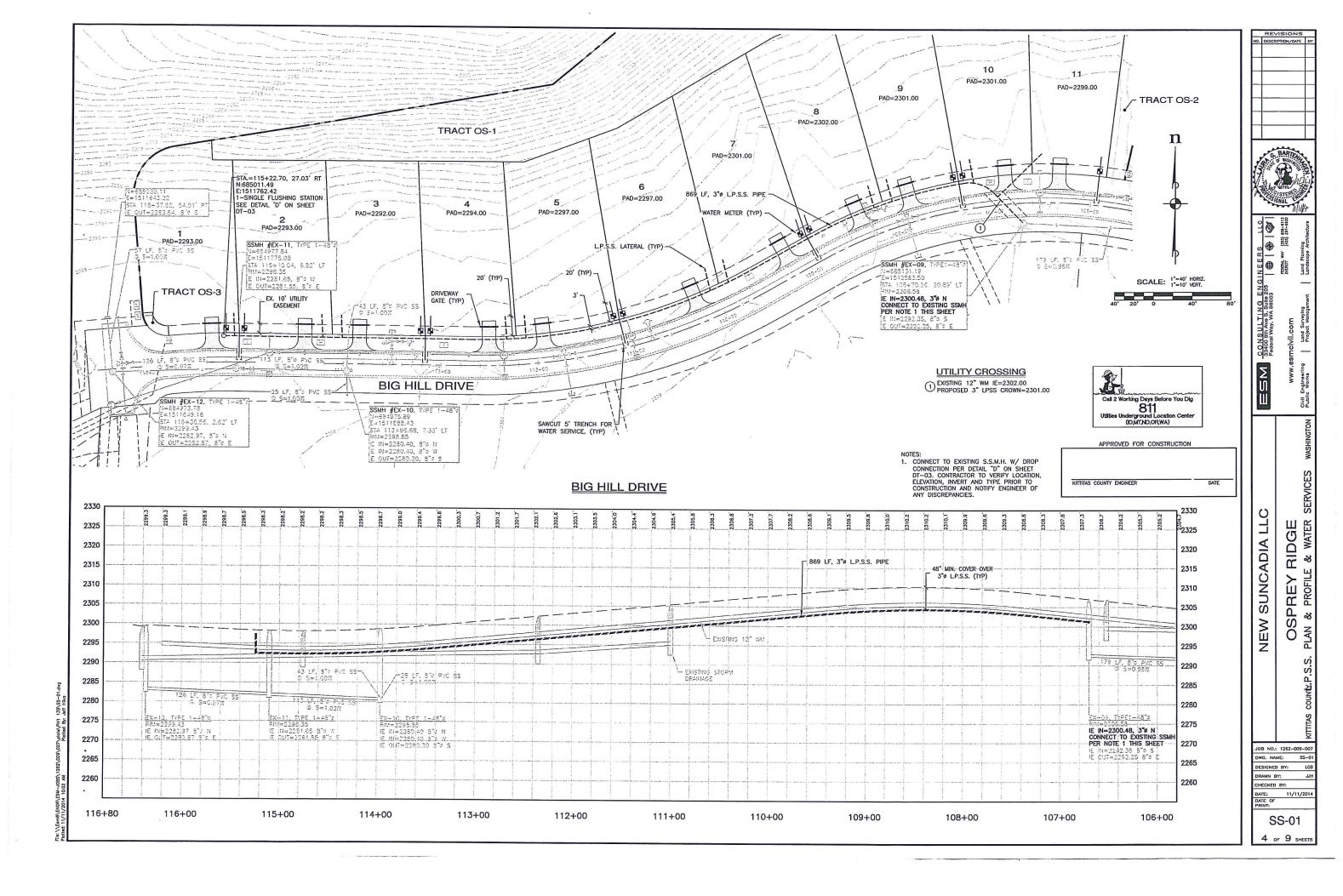


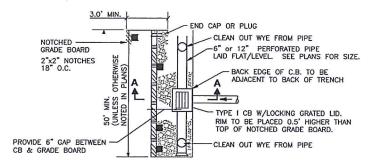
ivil.com
Land Surveying
Project Managem

OSPREY RIDGE STORM DRAINAGE & GRADING PLAN

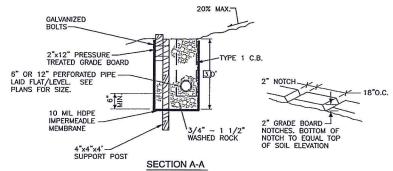
SD-01

3 of 9 SHEETS





PLAN

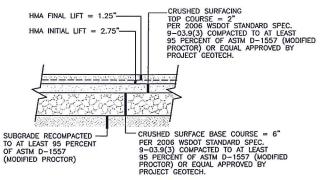


NOTES:

- 1. WHEN TWO CB'S ARE SHOWN IN THE SAME DISPERSION TRENCH, THEY SHALL BE CONNECTED BY A 12"0 PERFORATED PIPE.
 2. THIS TRENCH SHALL BE CONSTRUCTED SO AS TO PREVENT POINT DISCHARGE MEDICAL PROCESS.
- AND/OR EROSION.
- 3. TRENCHES MAY BE PLACED NO CLOSER THAN 50 FEET TO ONE ANOTHER. (100 FEET ALONG FLOWLINE)
 4. TRENCH AND GRADE BOARD MUST BE LEVEL. ALIGN TO FOLLOW CONTOURS OF SITE
- SITE.

 5. SUPPORT POST SPACING AS REQUIRED BY SOIL CONDITIONS TO ENSURE GRADE BOARD REMAINS LEVEL.





BIG HILL DRIVE
PAVEMENT SECTION DETAIL
NOT TO SCALE

		JOB NO.: 1262-009-007
		DWG. NAME: DT-01
		DESIGNED BY: LGB
		DRAWN BY: JJH
APPROVED FOR CONSTRUCTION		CHECKED BY:
		DATE: 11/11/2014 DATE OF PRINT:
KITTITAS COUNTY ENGINEER	DATE	DT-01
		5 of 9 SHEETS

REVISIONS

(253) 838-6113 (425) 297-8900

Civil Engineerir Public Works

OSPREY RIDGE

& STORM DRAINAGE DETAILS

SUNCADIA LLC

NEW

CONSULTING ENGINEERS LLC 33400 BIR AWA S. SUIR 205 | # | # | # | # | # |

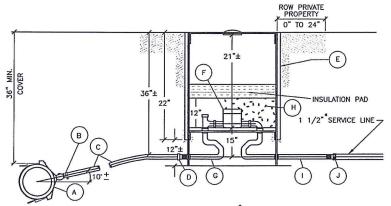
WATER MAIN CONSTRUCTION SPECIFICATIONS

- WATER MAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND WASHINGTON STATE CHAPTER OF THE AMERICAS PUBLIC WORKS

 ASSOCIATION, LATEST EDITION (ENGLISH UNITS.) MATERIALS SHALL CONFORM TO APWA/WSDOT STANDARD SPECIFICATIONS, SECTION 9-30, EXCEPT AS MODIFIED HEREIN. CONSTRUCTION SHALL CONFORM WITH THE FOLLOWING SECTIONS OF STANDARD SPECIFICATIONS:

 - 7- 9 PIPE AND FITTINGS FOR WATER MAINS
 7-10 TRENCH EXCAVATION, BEDDING AND BACKFILL FOR WATER MAINS
 7-11 PIPE INSTALLATION FOR WATER MAINS

 - 7-12 VALVES FOR WATER MAINS
 7-13 HYDRANTS
 7-14 SERVICE CONNECTIONS
- 2. SERVICE CONNECTION CONSTRUCTION SHALL BE IN ACCORDANCE WITH WATER MAIN PIPE 4-INCH THROUGH 12-INCH DIAMETER SHALL BE CLASS 150 (DR18), POLYVINYL CHLORIDE (PVC) MEETING THE REQUIREMENTS OF AWWA C-990. WATER MAIN PIPE LARGER THAT 12-INCH DIAMETER SHALL BE CLASS 165 (DR25), POLYVINYL CHLORIDE (PVC) MEETING THE REQUIREMENTS OF AWWA C-905. PVC PIPE SHALL HAVE THE SAME OUTSIDE DIMENSIONS AS DUCTILE IRON PIPE. JOINTS SHALL BE PUSH-ON TYPE MEETING THE REQUIREMENTS OF ASTM D-3139 USING A RESTRAINED RUBBER GASKET CONFORMING TO ASTM F-477. THE MINIMUM DEPTH OF COVER SHALL BE 4821 BE 482. DEPTH OF COVER SHALL BE 48".
- 3. PVC WATER MAINS SHALL HAVE BLUE DETECTABLE UNDERGROUND UTILITY MARKING TAPE INSTALLED NEAR THE SURFACE DIRECTLY ABOVE THE WATER MAIN. THE MARKING TAPE SHALL BE 5 MIL OVERALL THICKNESS SOLID ALUMINUM CORE, 2 MIL CLEAR FILM DETECTABLE UNDERGROUND UTILITY MARKING TAPE OR EQUIVALENT.DETECTABLE
- 4. FITTINGS FOR PVC PIPE SHALL BE NEW DUCTILE IRON CONFORMING TO AWWA C-110 AND C-111 OR AWWA C-153 AND SHALL BE CEMENT MORTAR LINED CONFORMING TO AWWA C-104.
- 5. ALL GATE VALVES SMALLER THAN 12-INCH DIAMETER SHALL BE RESILIENT WEDGE CONFORMING TO AWWA C-509. VALVES 12-INCH DIAMETER AND LARGER SHALL BE BUTTERFLY TYPE CONFORMING TO AWWA C-504 AND SUITABLE FOR DIRECT BURIAL.
- 6. VALVE BOXES SHALL BE INSTALLED ON ALL BURIED VALVES. THE BOX SHALL BE CAST IRON, TWO PIECE SLIP DESIGN WITH A BASE CORRESPONDING TO THE SIZE OF THE VALVE. THE COVER SHALL HAVE THE WORD "WATER" CAST IN IT AND THE LID "EARS" SHALL BE INSTALLED PARALLEL TO THE MAIN. VALVE BOX SHALL BE OLYMPIC FOUNDRY PART NO. VB1, OR APPROVED EQUAL.
- 7. VALVE STEM EXTENSIONS SHALL BE REQUIRED ON ALL VALVES WITH AN OPERATING NUT THAT IS MORE THAN 3 FEET BELOW GRADE TO BRING THE OPERATING NUT TO WITHIN 2-FEET OF THE GROUND SURFACE. THE VALVE STEM EXTENSION SHALL BE 1" DIAMETER AND BE EQUIPPED WITH A SELF-CENTERING SUPPORT ON THE SHAFT, AND A 2-INCH OPERATING NUT.
- 8. CONCRETE THRUST BLOCKING SHALL BE PER WSDOT/APWA AND MSRR STANDARDS AND SHALL UTILIZE 3000 PSI CONCRETE.
- 9. PRIOR TO CONNECTION WITH EXISTING MAINS, ALL NEW WATER MAINS AND HYDRANTS SHALL SE PRESSURE TESTED AND DISINFECTED IN ACCORDANCE WITH SECTION 7-11.3(11) THROUGH SECTION 7-13.(12) OF THE STANDARD SPECIFICATIONS. PRESSURE TESTING AND DISINFECTION SHALL BE PERFORMED IN THE PRESENCE THE MSRR INSPECTOR. THE CONTRACTOR SHALL PROVIDE PLUGS, PORTABLE PUMP, BLOW OFF ASSEMBLES, TEMPORARY BLOCKING, AND OTHER EQUIPMENT AND MATERIALS NECESSARY FOR PRESSURE TESTING AND DISINFECTION.
- 10. MINIMUM TEST PRESSURE IS 200 PSI.



- (CC) DOUBLE STRAP STAINLESS STEEL SERVICE SADDLE WITH 1 1/2" AWWA TAPER (CC) TAP, ROMAC 202S, SIZE AS REQUIRED.
- B corporation stop, 1-1/2" awwa taper (cc) inlet by 1-1/2" pack joint (compression fitting) for hdpe outlet, ford fb1000 or approved equal.
- C 1 1/2* HDPE W/ TRACER WIRE.
- (D) 1 1/2* X 1" REDUCER
- E ARMORCAST 173022; LID-1730RPM WITH INTRON LID; PAD-ABUP17304R20.
- $\widehat{(F)}$ 1" brass water meter setter, 15" height & double check assy; angle lockwing ball valve W/ plain meter nut (no lip); flanged tubing W/ plain meter nut (no lip).
- (G) WATER METER SETTER: AY McDONALD MODEL 50.415WCDD.44.
- (H) STYROFOAM PACKING PEANUTS.
- 1" BRASS TAIL PIECE (EXTEND 24" FROM BOX)
- J PROVIDE 1" x 1 1/2" INCREASER OFF TAIL PIECE AND CAP FOR FUTURE CONNECTION.

- SERVICE LINE SHALL BE PERPENDICULAR TO THE WATERMAIN, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- APPROVED BACKFLOW PREVENTION MUST BE INSTALLED WITH IRRIGATION SERVICE PER D.S.H.S. REQUIREMENTS IRRIGATION SYSTEM SHALL NOT BE PUT INTO SERVICE UNTIL THE BACKFLOW PREVENTION DEVICE IS APPROVED BY MOUNTAINSTAR RESORT RESOURCES.
- 3. DEFLECT WATER LATERALS UNDER STORM AS REQUIRED.



* NOTE: FOR DOUBLE WATER SERVICES, USE 2" SERVICE LINE.

CONSULTING ENGINEERS
33400 8th Ave S, Suite 205 | ⊕ | ⊕ | Project MSI Civil Engineeri Public Works RIDGE UNCADIA SPREY & WATER DE S NEW O. SEWER A OB NO.: 1262-009-00 DESIGNED BY: AWN BY: CHECKED BY: 11/11/2014 DT-02 DATE

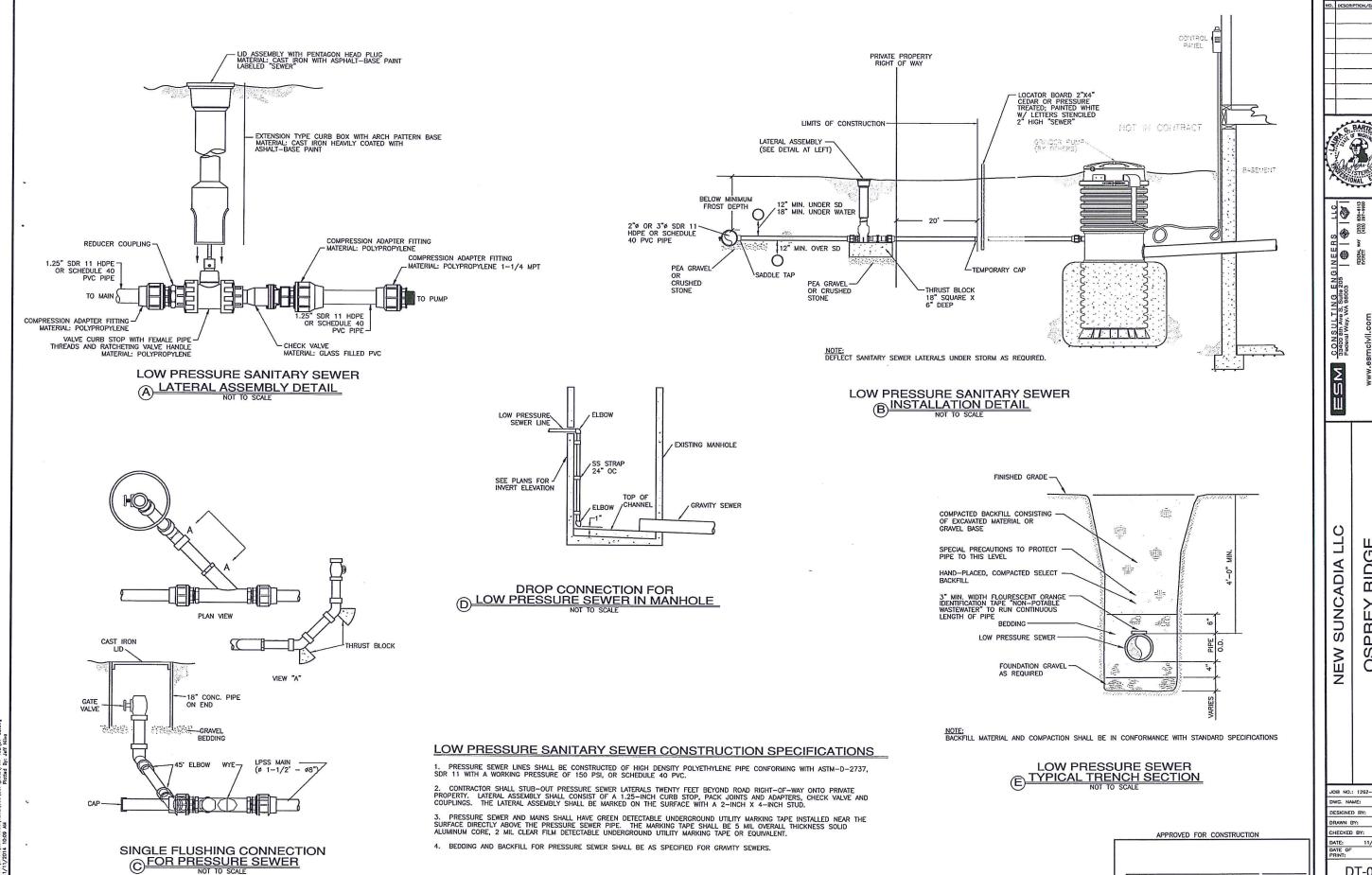
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KITHTAS COUNTY ENGINEER

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REVISIONS

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Land Plann Landscape

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Civil Engineerl Public Works

RIDGE LS & NOTES

SPREY 9.S.S. DETAILS

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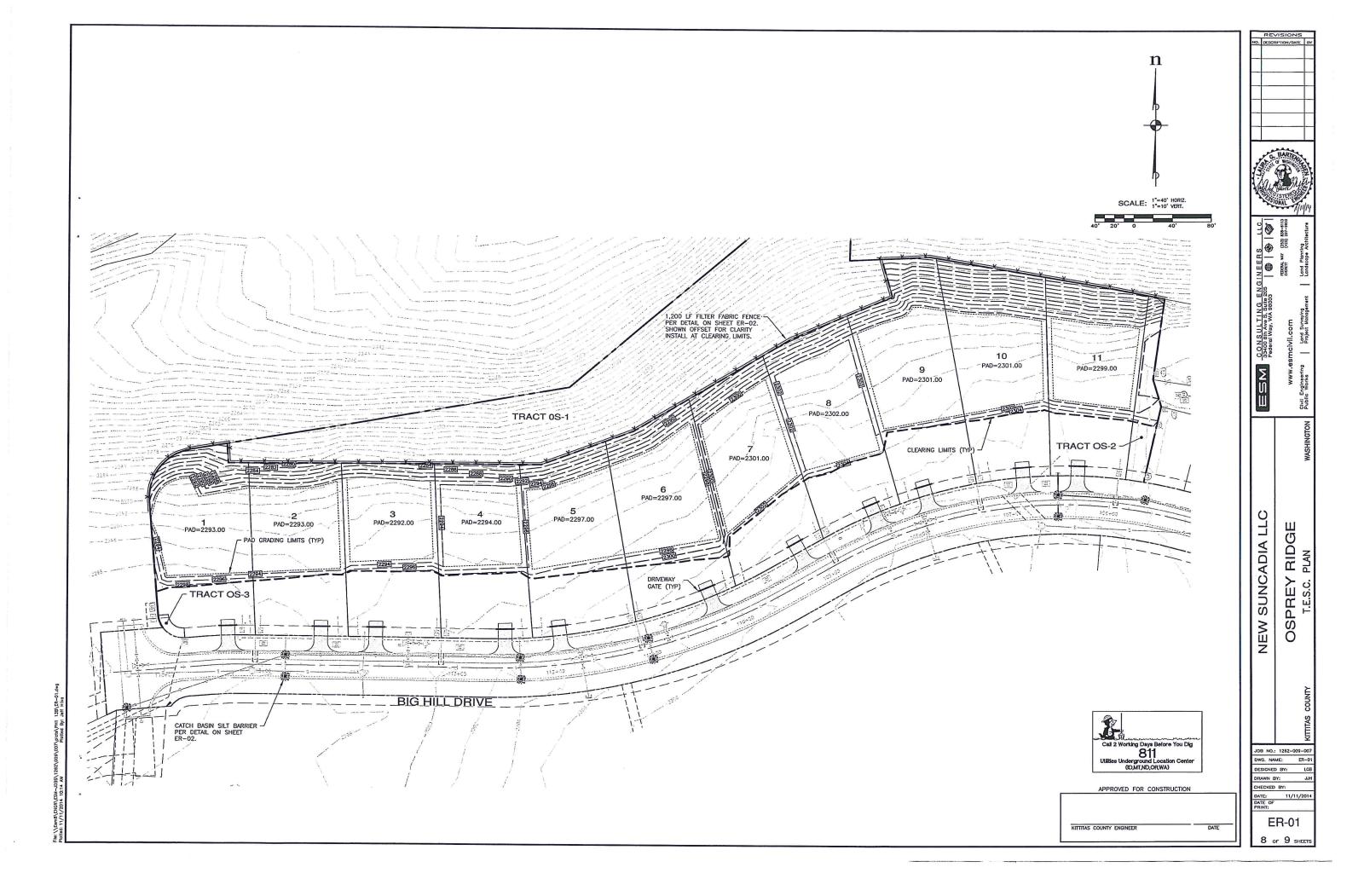
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CONSTRUCTION SEQUENCE

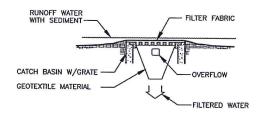
- 1. CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL AN ACCIDENTAL SPILL CONTROL AND CLEANUP PLAN
- 2. CONTACT THE KITTITAS COUNTY DEPARTMENT OF PUBLIC WORKS AND SCHEDULE A PRECONSTRUCTION MEETING.
- 3. INSTALL FILTER FABRIC FENCE, CHECK DAMS, INTERCEPTOR SWALES, STRAW BALE BARRIERS, SEDIMENT TRAPS AND OTHER TESC MEASURES AS SPECIFIED IN THE DETAILS OR AS FIELD CONDITIONS DICTATE.
- 4. INSTALL TEMPORARY CONSTRUCTION ENTRANCE(S). (IF NECESSARY)
- 5. It shall be the responsibility of the contractor to incorporate the necessary erosion control measures shown on these plans for the specific site area conditions.
- 6. CONTROL DUST BY USE OF WATER TRUCKS ON ROADS AND EXPOSED AREAS AS NECESSARY. IF FLOCCULANT AGENTS ARE USED (PAM), FOLLOW THE MANUFACTURER'S GUIDELINES FOR APPLICATION RATES.
- 7. PARTICULAR ATTENTION SHALL BE PAID TO THE LOESS MATERIALS PRESENT ON THE SITE.
- 8. CONTRACTOR SHALL HAVE STREET SWEEPING EQUIPMENT AVAILABLE AND SHALL USE AS CONDITIONS DICTATE.
- 9. DURING THE CONSTRUCTION PERIOD, ANY AND ALL POLLUTANTS INCLUDING SEDIMENTS SHALL BE HANDLED AND DISPOSED OF IN A MANNER WHICH DOES NOT CAUSE CONTAMINATION OF STORMWATER.
- 10. LANDSCAPE OR SEED ALL EXPOSED AREAS.
- 11. DURING THE CLEARING OPERATIONS IMPLEMENTATION OF THE EROSION CONTROL MEASURES DETAILED IN THESE PLANS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE BASED ON AREA CLEARED AND WEATHER CONDITIONS.
- 12. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THEY ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON—SITE. DISTURBED AREAS RESULTING FROM SEDIMENT REMOVAL SHALL BE PERMANENTLY STABILIZED.
- 13. COLLECTED AND TREATED RUNOFF SHALL BE EITHER INFILITATED OR, WHERE FEASIBLE, DISCHARGED IN A DISPERSED MANNER SUCH THAT SOIL EROSION DOES NOT OCCUR.
- 14. DEVELOP TESC INSPECTION CHECKLIST FOR USE IN WEEKLY INSPECTIONS. PROVIDE MONTHLY REPORT TO OWNER ON INSPECTIONS AND MAINTENANCE/UPGRADE ACTIVITIES.

EROSION/SEDIMENTATION CONTROL SPECIFICATIONS

- 1. AGENCY APPROVAL OF THIS TEMPORARY EROSION AND SEDIMENTATION CONTROL (TESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. UTILIJES, ETC.) SEPARATE PERMITS ARE REQUIRED FOR BUILDING AND UTILITIES CONSTRUCTION.
- 2. THE TESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. IMPLEMENTATION OF THESE TESC PLANS AND CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE IESC FACILITIES AS NECESSARY TO PREVENT SEDIMENTATION OR SILITATION OF ON-SITE DRIAINAGE FEATURES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED. THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR ASSISTANCE SHOULD THE NEED ARISE. CLEARING AND GRADING ACTIVITIES ON THE SITE SHALL ADHERE TO THE REQUIREMENTS ESTABLISHED BY THE WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES (DNR) FOREST PRACTICES DIVISION CONDITIONS FOR THIS SITE (CLASS IN GENERAL, CONVERSION, FPP #2702155) DATED AUG. 23, 2002. CONTACT: LORRAINE POWELL (509) 925-8510.
- 3. THE BOUNDARIES OF THE CLEARING LIMITS, BOTH INTERIOR AND EXTERIOR, SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL LIMIT CLEARING TO THOSE AREAS NECESSARY FOR THE CLIRERAT OPERATION NECESSARY FOR THE CURRENT OPERATION.
- 4. AS CONSTRUCTION PROGRESSES THE CONTRACTOR SHALL PHASE IMPLEMENTATION OF THE TESC MEASURES SHOWN ON THESE PLANS AS CLEARING AND GRADING ACTIVITIES ALLOW. PHASING OF TESC MEASURES SHALL BE PERFORMED IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT WOLATE STATE WATER QUALITY STANDARDS. THE CONSTRUCTION SEQUENCE PROVIDED ON THESE PLANS SHALL SERVE AS GENERAL GUIDANCE IN THE DEVELOPMENT OF THE OPERATIONAL PHASING PLAN IN IT IS THE CONTRACTOR'S RESPONSIBILITY TO DEVELOP THE OPERATIONAL PHASING PLAN AND TO ENSURE THAT SEDIMENTATION AND SILTATION OF ON-SITE AND OFF-SITE DRAINAGE FEATURES DOES NOT OCCUR.
- 5. THE TESC FACILITIES SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AND MAINTAINED/UPGRADED AS
- 6. ANY AREA STRIPPED OF VEGETATION, INCLUDING ROADWAY EMBANKMENTS, WHERE NO FURTHER WORK IS ANTICIPATED FOR AN EXTENDED PERIOD OF TIME, SHALL BE STABILIZED WITH AN APPROVED TESC METHOD (E.G. SEEDING, MULCHING, NETTING, EROSION BLANKETS, ETC.) SEEDING SHALL BE PERFORMED IN A MANNER TIMELY TO GETRUINATION OF SEFE BY SITE PAINFAIL.
- 7. ANY AREA NEEDING TESC MEASURES, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE ADDRESSED PRIOR TO RAINFALL EVENTS. THERE MAY BE AREAS NOT SHOWN ON TH EPLANS THAT WILL REQUIRE TESC MEASURES PRIOR TO A RAINFALL EVENT, SUCH AS ADDITIONAL CLEARING, CUTS AND FILLS, ETC. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER FOR IMPLEMENTATION OF THE ADDITIONAL TESC MEASURES
- 8. THE TESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A STORM EVENT.
- 9. STABILIZED CONSTRUCTION ENTRANCES AND WASH PADS SHALL BE INSTALLED AT THE BEGINNING OF CON-STRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT. (RCW 46.61.655).
- 10. DURING THE TIME PERIOD OF NOVEMBER 1 THROUGH FEBRUARY 28, NO CLEARING OR GRADING SHALL OCCUR IN AREAS OF HIGH EROSION POTENTIAL AS DEFINED IN THE PROJECT EIS.
- 11. CLEAN WATER ENTERING CONSTRUCTION AREA SHALL NOT BE ALLOWED TO MIX WITH CONSTRUCTION AREA
- 12. TEMPORARY AND PERMANENT COVER OF EXPOSED SOILS AND MAJOR STOCKPILES OF ERODIBLE SOIL IS REQUIRED.
- 13. Contractor shall establish silt fences along boundaries of sensitive areas as required for their protection. Sensitive areas shall be as defined in the project eis.
- 14. WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT A RATE OF 20 LB/ACRE ACCORDING TO THE FOLLOWING SEED MIXTURE:

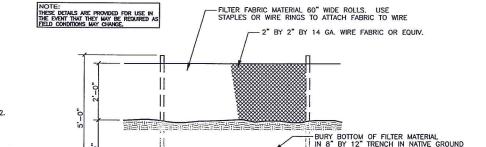
NAME BASIC SEED MIX © 20 LB/ACRE	PROPORTION PERCENT BY WEIGHT	PERCENT PURITY	PERCENT GERMINATION
CREEPING RED FESCUE	23	98	90
SHEEP FESCUE	23	98	90
CANADA BLUEGRASS	24	98	90
RED TOP	10	98	90
SHERMAN BIG BLUE	20	98	90

15. THE CONTRACTOR SHALL ADJUST HIS EROSION CONTROL OPERATIONS ACCORDING TO THE FIELD CONDITIONS TO ENSURE ANY SEDIMENT LADEN WATER DOES NOT ENTER OFFSITE OR SURFACE WATER SYSTEMS



CATCH BASIN SILT BARRIER

N.T.S.



— 6' MAX. —

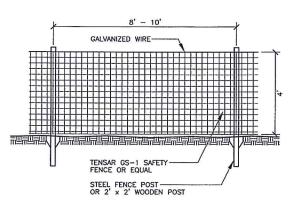
2" BY 4" WOOD POSTS, STANDARD OR BETTER OR EQUAL ALTERNATE: STEEL FENCE POSTS.

SECTION 2"x4" WOOD POSTS, STANDARD BETTER OR EQUAL ALTERNATE: STEEL FENCE POSTS -(SPACING) 6"-1 PROVIDE 3/4"-1.5" WASHED GRAVEL BACKFILL IN TRENCH AND ON BOTH SIDES OF FILTER FABRIC ON THE SURFACE FILTER FABRIC MATERIAL 2" BY 2" BY 14 GA. WIRE FABRIC OR EQUIV. NOIE: POSTS SHALL BE INSTALLED SO THAT A MIN. OF 2' — 0" EXTENDS ABOVE THE GROUND WITH A MIN. OF NEWLY GRADED OR DISTURBED SIDE SLOPE 2' - 6" EMBEDMENT *UPLAND SLOPE % L (FEET) 67.0 50.0 25.0 16.7 10.0 100 115 150 200 250 *FENCE SPACING ON CLEARED **PROFILE**

- 1. ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.
- IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.
- 3. IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE AND/OR REMOVE THE TRAPPED SEDIMENT.
- 4. SEDIMENT MUST BE REMOVED WHEN THE SEDIMENT IS 6" HIGH.
- 5. IF THE FILTER FABRIC HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.

TYPICAL FILTER FENCE DETAIL

CONDITIONS FOR USE: TO PREVENT OFF-SITE SEDIMENT TRANSPORT TO SENSITIVE AREAS FROM CLEARED AND GRUBBED



TEMPORARY N.G.P.E. FENCE DETAIL

ITTITAS COUNTY ENGINEER	DATE

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ER-02 9 OF 9 SHEET