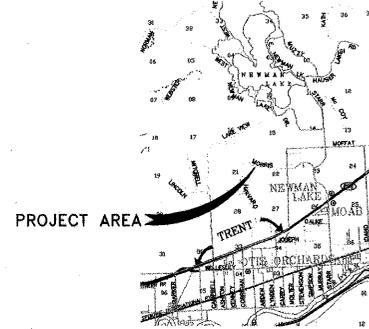
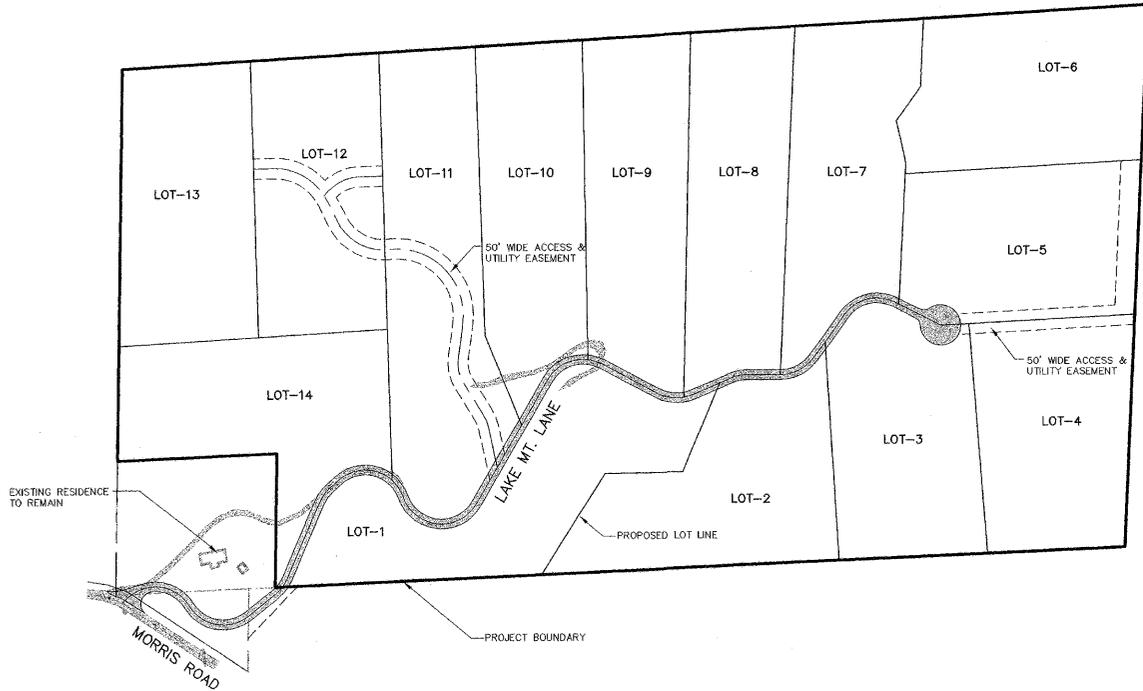


ELK RIDGE ESTATES LAKE MT. LANE PRIVATE ROAD

SECTION 22, TOWNSHIP 26 NORTH, RANGE 45 EAST, W.M.
SPOKANE COUNTY, WASHINGTON



VICINITY MAP
NTS



LEGEND

EXISTING FEATURES

- GRAVEL SURFACING
- CURB
- SIDEWALK
- FOUND POINT AS NOTED
- DRYWELL
- GUY WIRE POLE
- POWER POLE
- TELEPHONE ENCLOSURE
- WATER VALVE
- FIRE HYDRANT
- SANITARY SEWER MANHOLE
- WATER LINE
- SANITARY SEWER LINE
- STORM DRAIN LINE / CULVERT
- POWER LINE (OHP OR UGP)
- TELEPHONE LINE (OHT OR UGT)
- GAS LINE
- CONTOURS
- FENCE
- FIBER OPTIC LINE

PROPOSED IMPROVEMENTS

- GRAVEL SURFACING - SEE DESIGN PLANS FOR SPECIFICATIONS
- CURB - SEE DESIGN PLANS FOR TYPE
- SIDEWALK - SEE DESIGN PLANS FOR SPECIFICATIONS
- DRYWELL - SEE DESIGN PLANS FOR SPECIFICATIONS
- CONCRETE INLET
- POWER POLE
- WATER VALVE
- FIRE HYDRANT
- WATER SHUTOFF / WATER VAULT
- SANITARY SEWER MANHOLE
- CLEANOUT (CO)
- WATER LINE (AS SIZED)
- SLEEVE FOR WATER / SEWER CROSSING
- SANITARY SEWER LINE (AS SIZED)
- STORM DRAIN LINE / CULVERT
- UTILITY TRENCHING
- GAS LINE TRENCHING
- CONTOURS
- STORM WATER SWALE / POND
- DIRECTION OF SURFACE STORM WATER DRAINAGE
- 1924.50 TOP OF CURB ELEVATION
- 1924.00 FLOWLINE ELEVATION
- CURB INLET CURB INLET ELEVATION AT FLOWLINE
- 1924.00 FINISHED GRADE ELEVATION

SHEET INDEX

- SHEET 1 COVER SHEET - STREET AND STORM DRAINAGE
- SHEET 2 EROSION AND SEDIMENT CONTROL PLAN
- SHEET 3 LAKE MT. LANE PRIVATE ROAD - PLAN AND PROFILE
- SHEET 4 LAKE MT. LANE PRIVATE ROAD - PLAN AND PROFILE
- SHEET 5 LAKE MT. LANE PRIVATE ROAD - PLAN AND PROFILE
- SHEET 6 DETAIL SHEET
- SHEET 7 DETAIL SHEET

CERTIFICATION

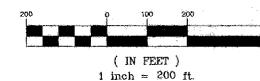
THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO THE APPLICABLE EDITIONS OF THE SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION AND THE SPOKANE COUNTY GUIDELINES FOR STORM WATER MANAGEMENT. ALL DESIGN DEVIATIONS HAVE BEEN APPROVED BY THE SPOKANE COUNTY ENGINEERS. I APPROVE THESE PLANS FOR CONSTRUCTION.

Chad Heimbauer 11/28/07
CHAD HEIMBAUER, P.E. DATE

W. H. Harte 11-28-07
DEVELOPER DATE



GRAPHIC SCALE



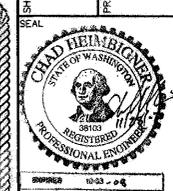
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1838
DATE ACCEPTED: 12/12/07
ACCEPTANCE EXPIRES: 12/12/14
PROJECT LANE MILES PUBLIC: 0.50
PROJECT LANE MILES PRIVATE: 0.50
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, AS BUILT, ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE PROFILES FOR MAINTENANCE.
PERMIT REQUIRED: (509) 477-3800
NOTIFY PERMIT ENGINEER'S BUSINESS DAYS PRIOR TO CONSTRUCTION.

No.	DESC.	DATE	BY

STORHAUG ENGINEERING

LAND SURVEYING LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING LAND USE PLANNING
5110 EAST THIRD AVE SPOKANE, WA 99202
PHONE 509-242-1000 FAX 509-242-1101

COVER SHEET
STREET AND STORM DRAINAGE
ELK RIDGE ESTATES
SPOKANE COUNTY, WASHINGTON



DATE	11/27/07
DRAWN	KSN
CHECKED	CJH
PROJECT NUMBER	06-327
DRAWING NO.	1 OF 7
COVER	

CALL BEFORE YOU DIG 456-8000

P-1838 Eng Road Drainage

P:\Projects\306106-327 Streets Finalization of Red\06327-0.dwg, 11/27/2007 2:14:03 PM

06327-0.dwg COVER

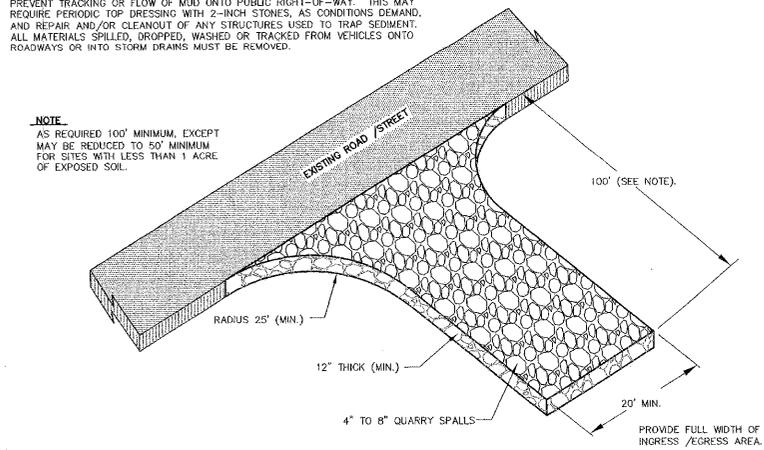
DEFINITION: A TEMPORARY STONE-STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE.

PURPOSE: TO REDUCE THE AMOUNT OF MUD, DIRT, ROCK, ETC. TRANSPORTED ONTO PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF BY CONSTRUCTING A STABILIZED PAD OF ROCK SPALLS AT ENTRANCES TO CONSTRUCTION SITES AND WASHING OF TIRES DURING EGRESS.

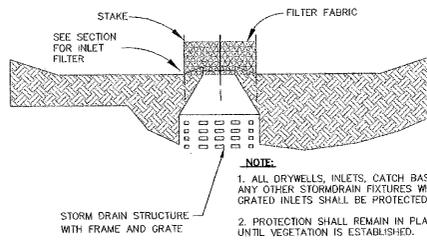
CONDITIONS WHERE PRACTICE APPLIES: WHEREVER TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVING DIRECTLY ONTO A PUBLIC ROAD OR OTHER PAVED AREAS.

MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONES, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED.

NOTE: AS REQUIRED 100' MINIMUM, EXCEPT MAY BE REDUCED TO 50' MINIMUM FOR SITES WITH LESS THAN 1 ACRE OF EXPOSED SOIL.



STABILIZED CONSTRUCTION ENTRANCE / TIRE WASH



TEMPORARY INLET PROTECTION

ESC MEASURES

EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO THE SPOKANE COUNTY ESC BEST MANAGEMENT PRACTICES (BMPs) AS NOTED IN THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT.

EROSION CONTROL MEASURES IN ADDITION TO THOSE INDICATED AS PART OF THIS PLAN MAY BE REQUIRED IF SPOKANE COUNTY DETERMINES INDICATED MEASURES ARE INADEQUATE. PERIODIC MAINTENANCE OF EROSION CONTROL MEASURES IS REQUIRED UNTIL PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL AND SUFFICIENT VEGETATION IS ESTABLISHED. TEMPORARY SEDIMENT CONTROL BMPs SHALL BE REMOVED WITHIN 30 DAYS OF THE DATE WHEN PERMANENT FACILITIES ARE ACCEPTED BY SPOKANE COUNTY.

IF EROSION MATERIAL IS TO BE STOCKPILED ON/NEAR THE SITE, FILTER FABRIC SHALL BE INSTALLED COMPLETELY SURROUNDING THE STOCKPILE SO THERE IS NO IMPACT ON ADJACENT PROPERTY.

FILTER FENCE SHALL BE USED TO AID IN CONTAINING ANY SEDIMENT ON THE SITE DURING CONSTRUCTION. STABILIZED CONSTRUCTION ENTRANCES SHALL BE USED AT POINTS OF INGRESS AND EGRESS FOR CONSTRUCTION VEHICLES. DRYWELL/INLET PROTECTION SHALL BE USED AT ALL STORMWATER INLETS OR DRYWELLS. ALL ESC MEASURES SHALL BE PERFORMED AS OUTLINED IN SPOKANE COUNTY STORMWATER GUIDELINES FOR EROSION AND SEDIMENT CONTROL. THE CONTRACTOR SHALL KEEP THE AREAS ADJACENT TO THE SITE INCLUDING ROADWAYS AND PARKING LOTS FREE FROM DEBRIS.

REQUIRED SEDIMENTATION/EROSION CONTROL FACILITIES MUST BE IN OPERATION PRIOR TO LAND CLEARING AND/OR OTHER CONSTRUCTION TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM. EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT AND ADDITIONS TO EROSION/SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

THE EROSION AND SEDIMENTATION CONTROL SYSTEMS DEPICTED ON THIS DRAWING ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND AS UNEXPECTED OR SEASONAL CONDITIONS DICTATE, THE CONTRACTOR SHOULD ANTICIPATE THAT MORE EROSION AND SEDIMENTATION CONTROL FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE PROPOSED SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY THEIR ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES AND THE WATER QUALITY OF THE RECEIVING DRAINAGE SYSTEM. EROSION CONTROL MEASURES IN ADDITION TO THOSE INDICATED AS PART OF THIS PLAN MAY BE REQUIRED IF THE GOVERNING REGULATORY AGENCY DETERMINES INDICATED MEASURES ARE INADEQUATE.

AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF THE SEDIMENT. STORM DRAINAGE STRUCTURES, CONVEYANCE LINES AND DITCHES SHALL BE CLEANED AFTER COMPLETION OF PAVING.

THE CONTRACTOR SHALL REMOVE MATERIAL DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO THE CITY RIGHT-OF-WAY OR INTO THE EXISTING STORM DRAINAGE SYSTEM. DEBRIS SHALL NOT BE WASHED INTO THE STORM DRAIN SYSTEM.

TEMPORARY EROSION CONTROL FACILITIES SHALL BE INSPECTED WEEKLY AND MAINTAINED WITHIN 24 HOURS FOLLOWING A STORM EVENT. SEDIMENT SHALL BE REMOVED TO ENSURE THE FACILITIES WILL FUNCTION PROPERLY. THE FACILITIES SHALL BE SATISFACTORY MAINTAINED UNTIL CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.

STORM DRAIN INLETS MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT STORMWATER RUNOFF SHALL NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.

NO DISTURBED SOIL SHALL REMAIN UNSTABILIZED FOR MORE THAN TWO DAYS. REFER TO LANDSCAPE PLANS FOR PLANTING AND SEEDING SPECIFICATIONS.

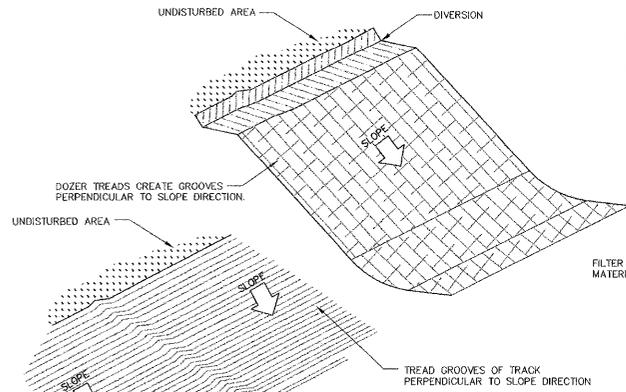
THE CONTRACTOR SHALL PROVIDE DUST CONTROL DURING CONSTRUCTION. REFER TO PLAN VIEW ON THIS SHEET FOR APPROXIMATE LOCATION OF THE ABOVE ITEMS.

ON-SITE GRADING SHALL BE IN ACCORDANCE WITH THE APPROVED GRADING PLAN AND ESC PLAN, ANY IMPORT OR EXPORT OF MATERIAL SHALL BE FROM A PREAPPROVED SOURCE/DESTINATION AND COORDINATED WITH THE SPOKANE COUNTY DEPARTMENT OF BUILDING AND PLANNING AT 477-3675. GRADING ON THIS SITE OR ANY OTHER SITE MUST COMPLY WITH ALL DEVELOPMENT REGULATIONS INCLUDING, BUT NOT LIMITED TO, GRADING PERMITS, SEPA REVIEW, TIMBER HARVEST PERMITS, CRITICAL AREAS, FLOODPLAINS, DESIGNATED DRAINAGEWAYS, ETC.

DEFINITION: PROVISION OF A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS CREATED BY OPERATING A TILLER OR OTHER SUITABLE EQUIPMENT ON THE CONTOUR OR BY LEAVING SLOPES IN A ROUGHED CONDITION BY NOT FILE GRADING THEM.

PURPOSE: TO AID IN ESTABLISHMENT OF VEGETATIVE COVER, REDUCE RUNOFF VELOCITY, INCREASE INFILTRATION, AND PROVIDE FOR SEDIMENT TRAPPING.

CONDITIONS WHERE PRACTICE APPLIES: ALL SLOPES STEEPER THAN 3:1 AND GREATER THAN 5 VERTICAL FEET, REQUIRE SURFACE ROUGHENING; EITHER STAIR-STEP GRADING, GROOVING, FURROWING, OR TRACKING IF THEY ARE TO BE STABILIZED WITH VEGETATION.



SURFACE ROUGHENING

- ER1) AN EROSION AND SEDIMENTATION CONTROL (ESC) PLAN IS REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE ESC PLAN AND CONSTRUCTION, MAINTENANCE AND UPGRADING OF THE ESC FACILITIES ARE THE RESPONSIBILITIES OF THE DEVELOPER UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY SPOKANE COUNTY OR UNTIL VEGETATION IS ESTABLISHED THROUGHOUT THE SITE AND ACCEPTED BY SPOKANE COUNTY, WHICHEVER IS LATER.
- ER2) APPROVAL OF THE ESC PLAN DOES NOT CONSTITUTE APPROVAL OF ANY OF THE PROPOSED ROAD, STORM DRAINAGE, GRADING OR UTILITY DESIGN ELEMENTS SHOWN ON THE ESC PLAN.
- ER3) THE ESC MEASURES SHOWN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. THE CONTRACTOR SHALL INSPECT AND MAINTAIN THESE ESC MEASURES DAILY AND SHALL MAINTAIN AND UPGRADE THESE MEASURES AS NECESSARY TO PREVENT SEDIMENT-LADEN WATER FROM EITHER FLOWING OFF THE SITE OR INTO NEW OR EXISTING STORM DRAINAGE FACILITIES, SUCH AS DRYWELLS, CULVERTS OR GRAVEL GALLERIES.
- ER4) THE CONTRACTOR / DEVELOPER IS RESPONSIBLE FOR INSTALLING ROCK CONSTRUCTION ENTRIES AT ANY AND ALL LOCATIONS USED TO ENTER OR EXIT THE PROJECT SITE.
- ER5) GEOTEXTILE FABRIC IS TO BE PLACED ON THE RIMS OF DRYWELLS, CATCH BASINS AND INLETS UNTIL SUCH TIME AS THE VEGETATION ON THE SITE IS ESTABLISHED AND THE THREAT OF SEDIMENT DEPOSITION INTO THE DRAINAGE SYSTEM IS MITIGATED.
- ER6) ON-SITE GRADING SHALL BE IN ACCORDANCE WITH THE APPROVED GRADING PLAN AND ESC PLAN. ANY IMPORT OR EXPORT OF MATERIAL SHALL BE FROM A PREAPPROVED SOURCE/DESTINATION AND COORDINATED WITH THE SPOKANE COUNTY DEPARTMENT OF BUILDING AND PLANNING AT 477-3675. GRADING ON THIS SITE OR ANY OTHER SITE MUST COMPLY WITH ALL DEVELOPMENT REGULATIONS INCLUDING, BUT NOT LIMITED TO, GRADING PERMITS, SEPA REVIEW, TIMBER HARVEST PERMITS, CRITICAL AREAS, FLOODPLAINS, DESIGNATED DRAINAGEWAYS, ETC.

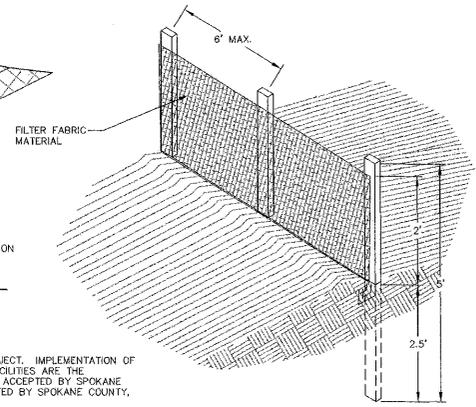
DEFINITION: A TEMPORARY SEDIMENT BARRIER CONSISTING OF A FILTER FABRIC STRETCHED ACROSS AND ATTACHED TO SUPPORTING POSTS AND ENTRENCHED. THE FILTER FENCE IS CONSTRUCTED OF STAKES AND SYNTHETIC FILTER FABRIC WITH A RIGID WIRE FENCE BACKING WHERE NECESSARY FOR SUPPORT.

PURPOSE: 1. TO INTERCEPT AND DETAIN SMALL AMOUNTS OF SEDIMENT UNDER SHEET FLOW CONDITIONS FROM DISTURBED AREAS DURING CONSTRUCTION OPERATIONS IN ORDER TO PREVENT SEDIMENT FROM LEAVING THE SITE.

2. TO DECREASE THE VELOCITY OF SHEET FLOWS.

CONDITIONS WHERE PRACTICE APPLIES: FILTER FENCES MUST BE PROVIDED JUST UPSTREAM OF THE POINT(S) OF DISCHARGE OF RUNOFF FROM A SITE, BEFORE THE FLOW BECOMES CONCENTRATED. THEY MAY ALSO BE REQUIRED:

- 1. BELOW DISTURBED AREAS WHERE RUNOFF MAY OCCUR IN THE FORM OF SHEET AND RILL EROSION, WHEREVER RUNOFF HAS THE POTENTIAL TO IMPACT DOWNSTREAM RESOURCES.
- 2. PERPENDICULAR TO MINOR SWALES OR DITCH LINES FROM CONTRIBUTING DRAINAGE AREAS UP TO ONE ACRE IN SIZE.
- 3. CONTRACTOR SHALL COORDINATE WITH DESIGN ENGINEER FOR ACTUAL PLACEMENT LOCATIONS.



FILTER FENCE

CONTACT PERSON / PROPERTY OWNER / PERMIT APPLICANT

DEL STEINLE
21901 E. MORRIS ROAD
NEWMAN LAKE, WA. 99025
509-226-1492

PROJECT / SITE DESCRIPTION

THE PROPOSED PROJECT INCLUDES THE DEVELOPMENT OF A PRIVATE ROAD TO SERVE FOURTEEN (14) RESIDENTIAL LOTS OF APPROXIMATELY FIVE (5) ACRES IN SIZE. THE SITE IS MOSTLY COVERED WITH TREES AND UNDERGROWTH AND HAS ONE EXISTING HOUSE. THE SITE HAS VARYING TOPOGRAPHY ASCENDING TO A RIDGE.

SOIL TYPE

THE SOILS IN THIS REGION OF THE PROJECT HAVE BEEN IDENTIFIED AS PREDOMINANTLY THE BERNHILL SERIES. THESE ARE CLASSIFIED AS TYPE "B" SOILS.

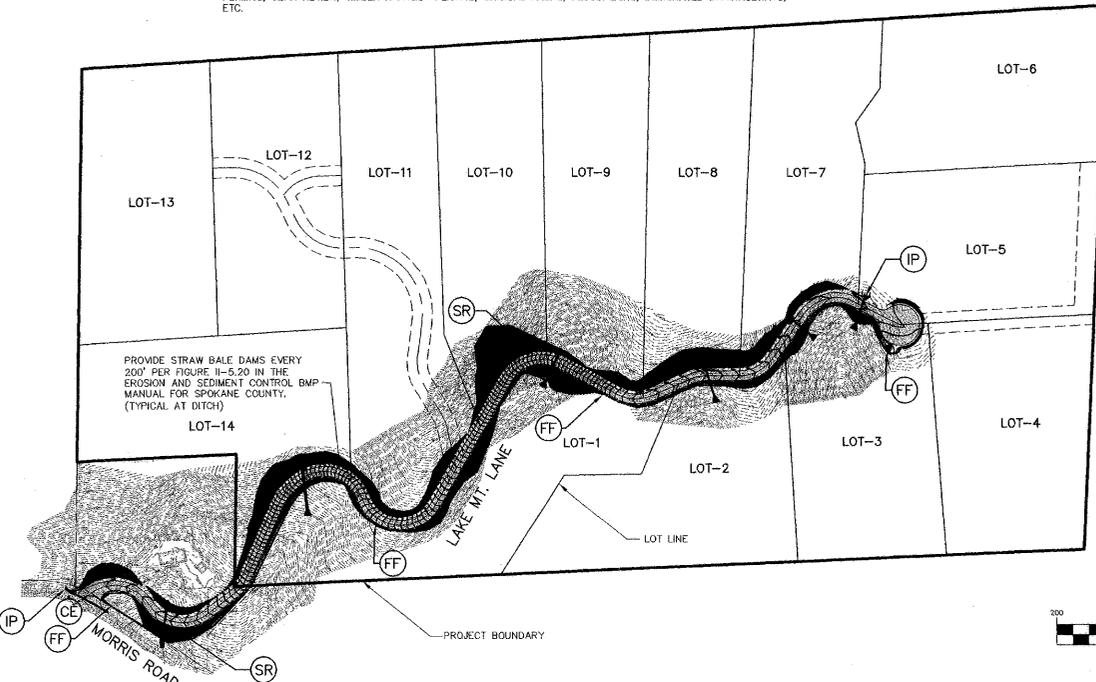
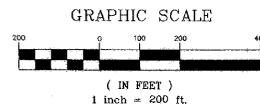
CERTIFICATION

THE EROSION AND SEDIMENT CONTROL PLAN MEETS THE REQUIREMENTS AS LISTED IN CHAPTER 4.5 OF THE GUIDELINES FOR STORMWATER MANAGEMENT. THIS ESC PLAN REPRESENTS A GUIDELINE FOR THE CONTRACTOR TO FOLLOW. THE CONTRACTOR SHALL BE RESPONSIBLE TO FOLLOW ALL SPOKANE COUNTY REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL.

CHAD HEMINGER, P.E. 11/28/07
DEVELOPER DATE

NOTE: REFER TO COVER AND INDEX SHEET FOR VICINITY MAP.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-1838
DATE ACCEPTED: 12/12/07
ACCEPTANCE EXPIRES: 12/12/09
PROJECT LANE MILES PUBLIC: 0.50
PROJECT LANE MILES PRIVATE: 0.50
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, AS-BUILTS ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3200
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION.



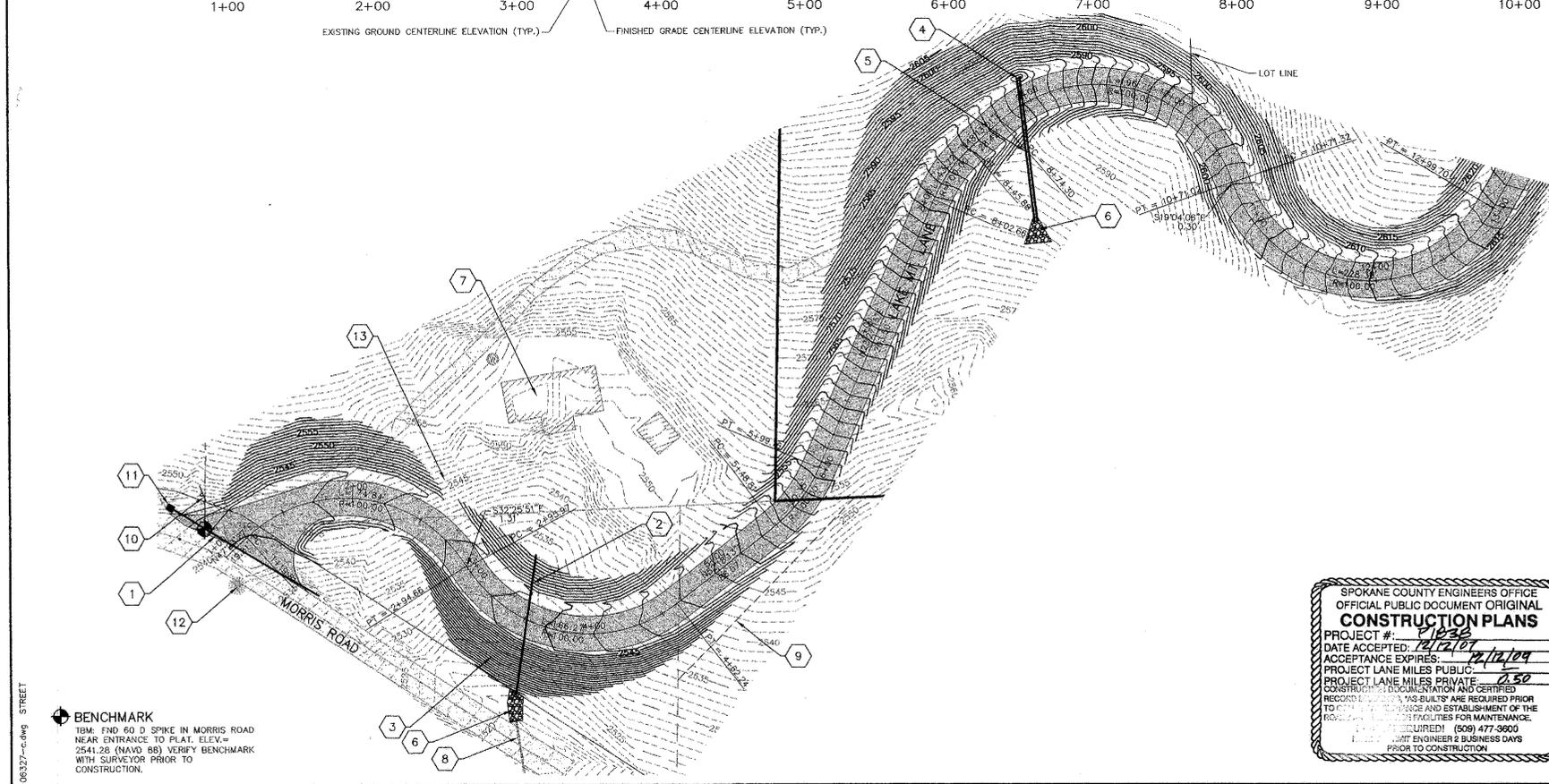
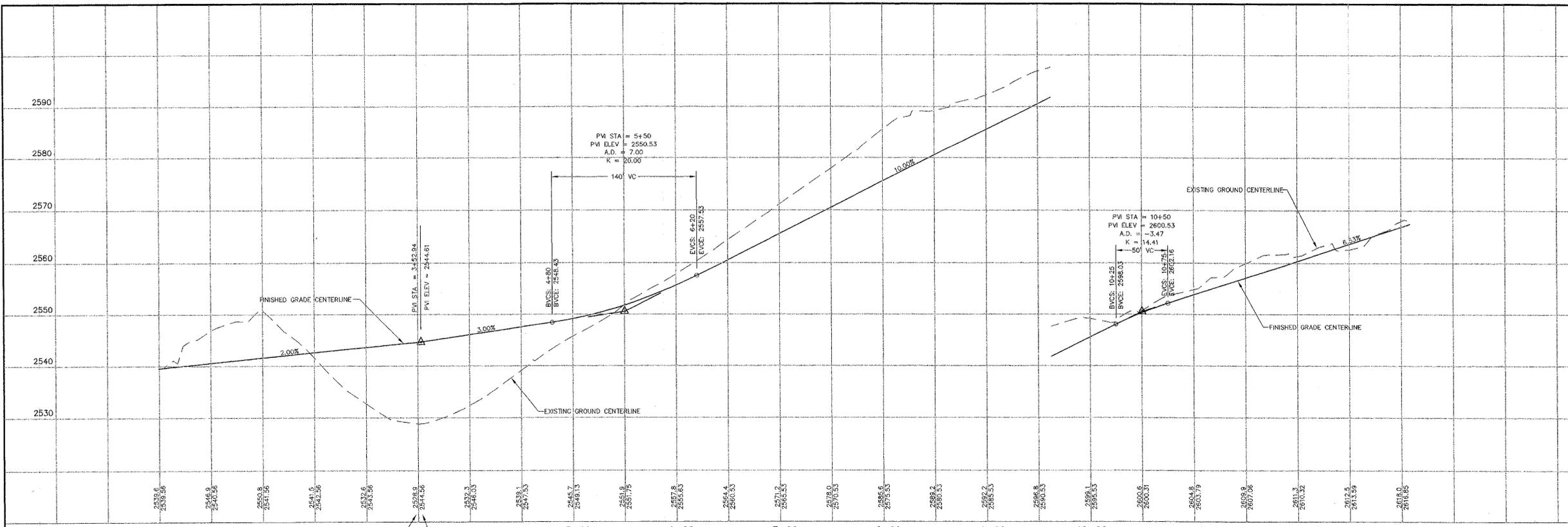
STORHAUG ENGINEERING
LAND SURVEYING LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING LAND USE PLANNING
510 EAST THIRD AVE. SPOKANE, WA 99202
PHONE 509-242-1000 FAX 509-242-1001

EROSION/SEDIMENT CONTROL PLAN
STREET AND STORM DRAINAGE
ELK RIDGE ESTATES
SPOKANE COUNTY, WASHINGTON

CHAD HEMINGER
REGISTERED PROFESSIONAL ENGINEER
STATE OF WASHINGTON

DATE 11/27/07
DRAWN KSN
CHECKED C.J.H.
PROJECT NUMBER 06-327
DRAWING NO. 2 OF 7
EROSION

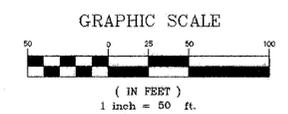
P-1838 Eng Prod Drainage



TABLE

1	12" CMP L= 119.1' S= 5.46% I.E. = 2539.00 (W) I.E. = 2532.50 (E)
2	18" CMP L= 98.0' S= 11.73% I.E. = 2533.00 (N) I.E. = 2521.50 (S)
3	THE EMBANKMENT CAN BE MADE AS STEEP AS 1.5 HORIZONTAL ON 1.0 VERTICAL BY CONSTRUCTING IT WITH SELECT MATERIAL CONSISTING OF WELL GRADED BASALT SHOTROCK THAT IS SCREENED SO THAT FRAGMENTS ARE NO LARGER THAN 6 INCHES. THIS MATERIAL SHOULD BE PLACED IN LIFTS NO THICKER THAN 12 INCHES, MOISTENED, AND COMPACTED WITH AT LEAST SIX COMPLETE SLOW PASSES OF A VIBRATORY ROLLER OF AT LEAST 10 TONS STATIC WEIGHT.
4	PROVIDE SUMP AT CULVERT ENTRANCE AND RIP RAP ROCK END TREATMENT AROUND 12" CMP CULVERT SHAPING ENTRANCE FROM DITCH INTO CULVERT.
5	2-15" CMP L= 98.7' S= 3.01% I.E. = 2583.00 (N) I.E. = 2580.00 (S)
6	ROCK RIP RAP PAD, SEE DETAIL SHEET.
7	EXISTING RESIDENCE TO REMAIN.
8	EXISTING CULVERT TO REMAIN.
9	EASEMENT LINE ACQUIRED FROM ADJACENT PROPERTY OWNER FOR ACCESS AND ROAD IMPROVEMENTS.
10	STOP AND STREET SIGNS PER M.U.T.C.D. STANDARDS.
11	CATCH BASIN TYPE 1 SPOKANE COUNTY STD. B-4 W/ METAL FRAME STD. B-10 AND GRATE STD. B-13 STA. 0+94.26, 50.78' LT. RIM EL = 2543.00 I.E. = 2539.00
12	REMOVE EXISTING TREE IN COUNTY RIGHT-OF-WAY.
13	PROVIDE NEW DRIVEWAY TO EXISTING HOUSE. COORDINATE LOCATION AND CONSTRUCTION WITH HOMEOWNER.

- NOTES**
- SEE CONSTRUCTION AND SEEDING SPECIFICATIONS SHOWN ON DETAIL SHEET.
 - LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND AND OVERHEAD UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH APPROPRIATE REGULATORY AGENCIES AND UTILITY COMPANIES FOR REQUIREMENTS AND ANY NECESSARY RELOCATIONS.
 - 1.0' (MIN.) OF COVER SHALL BE MAINTAINED OVER ALL STORM DRAIN PIPES.



SPOKANE COUNTY ENGINEERS OFFICE
 OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
 PROJECT #: 01838
 DATE ACCEPTED: 12/2/07
 ACCEPTANCE EXPIRES: 12/12/09
 PROJECT LANE MILES PUBLIC: 0.50
 RECORD DRAWINGS AND ESTABLISHMENT OF THE ROAD AND UTILITY FACILITIES FOR MAINTENANCE.
 (SEE REQUIRED!) (509) 477-3600
 PRIOR TO CONSTRUCTION.

BENCHMARK
 TBM: FND 60 D SPIKE IN MORRIS ROAD
 NEAR ENTRANCE TO PLAT. ELEV. =
 2541.28 (NAVD 88) VERY BENCHMARK
 WITH SURVEYOR PRIOR TO
 CONSTRUCTION.

SHEET TITLE
LAKE MT. LANE PLAN AND PROFILE
 STA. 1+00 TO STA. 13+00
 PROJECT TITLE
ELK RIDGE ESTATES
SPOKANE COUNTY, WASHINGTON

SEAL

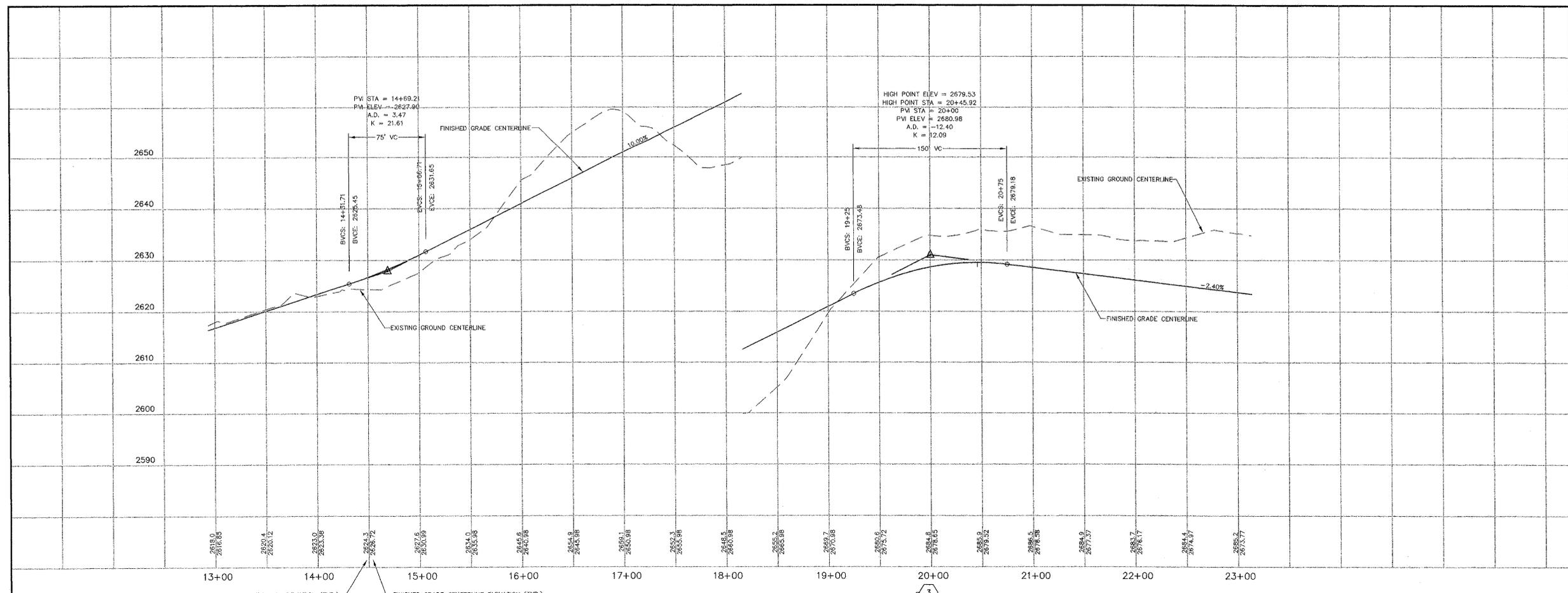
 DATE 11/27/07
 DRAWN KSN
 CHECKED CJH
 PROJECT NUMBER 06-327
 DRAWING NO. 3 OF 7
 STREET

CALL BEFORE YOU DIG 456-8000

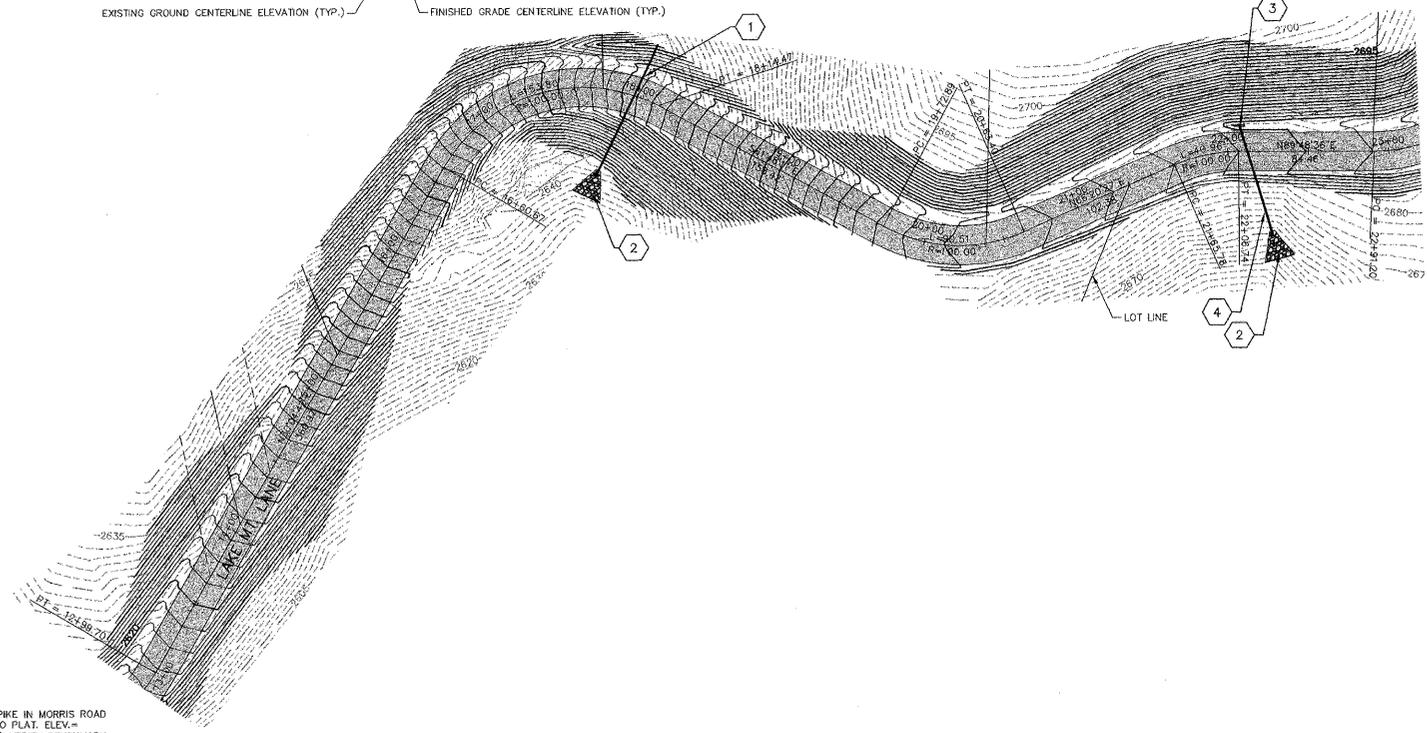
P-1838 Eng'land Drainage

No.	DESC. / DATE	BY

STORHAUG ENGINEERING
 LAND SURVEYING LANDSCAPE ARCHITECTURE
 CIVIL ENGINEERING LAND USE PLANNING
 1510 EAST THIRD AVE. SPOKANE, WA 99202
 PHONE 509-242-1000 FAX 509-242-1001



EXISTING GROUND CENTERLINE ELEVATION (TYP.) FINISHED GRADE CENTERLINE ELEVATION (TYP.)

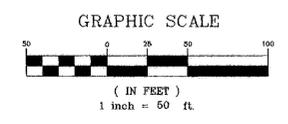


NOTES

- SEE CONSTRUCTION AND SEEDING SPECIFICATIONS SHOWN ON DETAIL SHEET.
- LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND AND OVERHEAD UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH APPROPRIATE REGULATORY AGENCIES AND UTILITY COMPANIES FOR REQUIREMENTS AND ANY NECESSARY RELOCATIONS.
- 1.0' (MIN.) OF COVER SHALL BE MAINTAINED OVER ALL STORM DRAIN PIPES.

TABLE

- | | |
|---|--|
| 1 | 12" CMP L= 90.0'
S= 13.89%
I.E.= 2633.50 (N)
E.E.= 2641.00 (S) |
| 2 | ROCK RIP RAP PAD, SEE DETAIL SHEET. |
| 3 | PROVIDE SUMP AT CULVERT ENTRANCE AND RIP RAP ROCK END TREATMENT AROUND 12" CMP CULVERT SHAPING ENTRANCE FROM DITCH INTO CULVERT. |
| 4 | 12" CMP L= 69.9'
S= 5.72%
I.E.= 2674.00 (N)
E.E.= 2670.00 (S) |

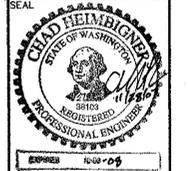


SPOKANE COUNTY ENGINEERS OFFICE
 OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
 PROJECT #: P1038
 DATE ACCEPTED: 12/14/07
 ACCEPTANCE EXPIRES: 12/14/10
 PROJECT LANE MILES PUBLIC: 0.50
 PROJECT LANE MILES PRIVATE: 0.50
 CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS BUILT" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
 PERMIT REQUIRED! (509) 477-3600
 NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION.

DEVELOPER: *Chad Heimbringer* DATE: 11-28-07

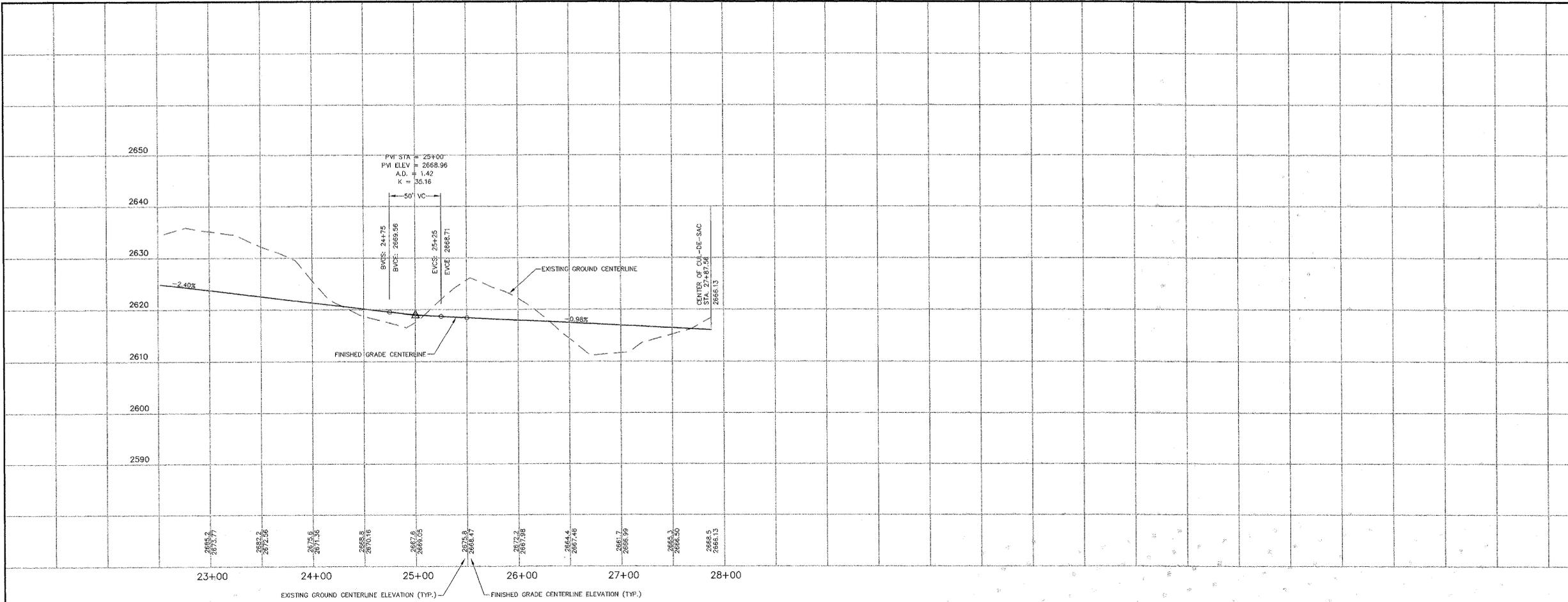
CALL BEFORE YOU DIG 456-8000

SHEET TITLE
LAKE MT. LANE PLAN AND PROFILE
 STA. 13+00 TO STA. 23+00
 PROJECT TITLE
ELK RIDGE ESTATES
 SPOKANE COUNTY, WASHINGTON

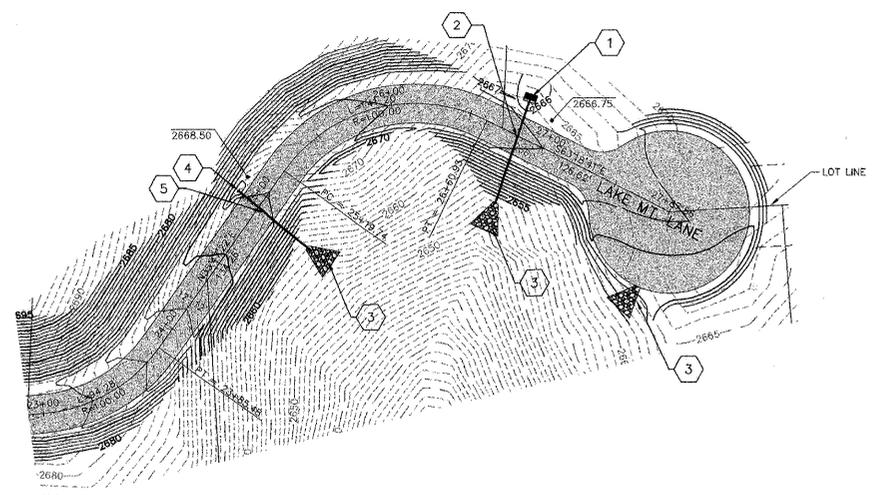


DATE	11/27/07
DRAWN	KSN
CHECKED	C.J.H.
PROJECT NUMBER	06-327
DRAWING NO.	4 OF 7

P1038 Eng/road drainage



Station	Existing Ground Centerline Elevation (Typ.)	Finished Grade Centerline Elevation (Typ.)
23+00	2615.2	2615.77
24+00	2617.6	2617.36
25+00	2617.6	2617.36
26+00	2617.2	2617.95
27+00	2617.4	2617.46
28+00	2616.7	2616.99
	2615.3	2616.50
	2615.8	2616.13



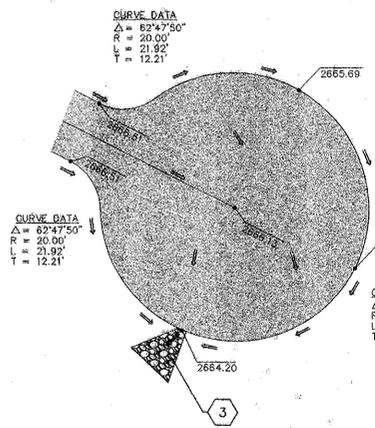
TABLE

- 1 CATCH BASIN TYPE 1
SPOKANE COUNTY STD. B-4
W/ METAL FRAME STD. B-10
AND GRATE STD. B-13
STA. 26+79.25, 25.27 LT.
RIM EL. = 2665.75
I.E. = 2663.00
- 2 12" CMP STORM DRAIN
L = 66.1'
S = 15.13%
I.E. = 2663.00 (N)
I.E. = 2653.00 (S)
- 3 ROCK RIP RAP PAD, SEE DETAIL SHEET.
- 4 PROVIDE SLUMP AT CULVERT
ENTRANCE AND RIP RAP ROCK END
TREATMENT AROUND 12" CMP
CULVERT SHAPING ENTRANCE FROM
DITCH INTO CULVERT.
- 5 12" CMP STORM DRAIN
L = 57.2'
S = 15.73%
I.E. = 2667.00 (N)
I.E. = 2658.00 (S)

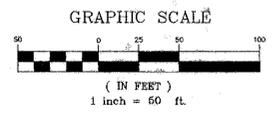
NOTES

- 1. SEE CONSTRUCTION AND SEEDING SPECIFICATIONS SHOWN ON DETAIL SHEET.
- 2. LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND AND OVERHEAD UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH APPROPRIATE REGULATORY AGENCIES AND UTILITY COMPANIES FOR REQUIREMENTS AND ANY NECESSARY RELOCATIONS.
- 3. 1.0' (MIN.) OF COVER SHALL BE MAINTAINED OVER ALL STORM DRAIN PIPES.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # **P1832**
DATE ACCEPTED: **12/12/07**
ACCEPTANCE EXPIRES: **12/12/10**
PROJECT LANE MILES PUBLIC: **2.92**
PROJECT LANE MILES PRIVATE: **2.92**
CONSTRUCTION DOCUMENTATION AND CERTIFIED
RECORD DRAWINGS "AS-BUILTS" ARE REQUIRED PRIOR
TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE
ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3500
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS
PRIOR TO CONSTRUCTION.



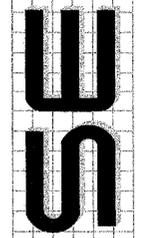
CUL-DE-SAC DETAIL
SCALE 1" = 30'



DEVELOPER: *[Signature]* DATE: **11-28-07**

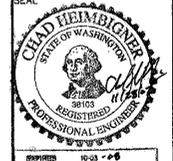
06327-c-cwq STREET (3)
BENCHMARK
TBM: FND 60 D SPIKE IN MORRIS ROAD
NEAR ENTRANCE TO PLAT. ELEV. =
2541.26 (NAVD 88) VERIFY BENCHMARK
WITH SURVEYOR PRIOR TO
CONSTRUCTION.

No.	DESC.	DATE	BY



STORHAUG ENGINEERING
LAND SURVEYING LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING LAND USE PLANNING
510 EAST THIRD AVE SPOKANE, WA 99202
PHONE 509-242-1000 FAX 509-242-1001

SHEET TITLE
LAKE MT. LANE PLAN AND PROFILE
STA. 23+00 TO STA. 27+87.56
PROJECT TITLE
ELK RIDGE ESTATES
SPOKANE COUNTY, WASHINGTON



DATE	11/27/07
DRAWN	KSN
CHECKED	CJH
PROJECT NUMBER	06-327
DRAWING NO.	5 OF 7
STREET	

CALL BEFORE YOU DIG 456-8000

P-1838 Eng Road Drainage

- ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION" 2003, AND AS AMENDED.
- LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND AND OVERHEAD UTILITIES. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000 BEFORE YOU DIG.
- THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF APPROVED ROAD AND DRAINAGE PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER AND THE SPOKANE COUNTY ENGINEER'S OFFICE.
- THE CONTRACTOR SHALL REVIEW ALL GEOTECHNICAL RECOMMENDATIONS AND INVESTIGATION REPORTS ASSOCIATED WITH THE SUBJECT DEVELOPMENT PRIOR TO STARTING CONSTRUCTION. ANY DISCREPANCIES BETWEEN DESIGN PLANS AND THE GEOTECHNICAL REPORT SHALL BE REPORTED TO THE DESIGN ENGINEER. CONSTRUCTION SHALL COMPLY WITH RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
- THE CONTRACTOR SHALL DEMOLISH AND REMOVE EXISTING STRUCTURES AND ASSOCIATED IMPROVEMENTS ON THE SUBJECT SITE CONFLICTING WITH THE PROPOSED IMPROVEMENTS PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL COORDINATE DEMOLITION ACTIVITIES WITH OWNER FOR FURTHER DIRECTION AND EXTENT OF WORK.
- MAINTAIN A MINIMUM OF 10 FEET HORIZONTAL CLEARANCE BETWEEN WATER PIPE AND PIPE CARRYING NON-POTABLE WATER. AT CROSSINGS, THERE SHALL BE A MINIMUM VERTICAL CLEARANCE OF 18 INCHES BETWEEN WATER PIPE (ABOVE) AND PIPE CARRYING NON-POTABLE WATER (BELOW). INSTALLATIONS FOR UTILITIES OTHER THAN POTABLE WATER MAY BE INSTALLED AT A CLEARANCE LESS THAN THOSE STATED ABOVE IF THE NON-POTABLE LINE IS SLEEVED PER CONSOLIDATED IRRIGATION DISTRICT SPECIFICATIONS. THE SLEEVE PIPE SHALL BE ONE SIZE LARGER THAN THE CONSTRUCTION PIPE. THE SLEEVE SHALL BE AT LEAST 20 FEET IN LENGTH AND CENTERED ON THE CROSSING TO PROVIDE FOR A MINIMUM HORIZONTAL SEPARATION OF 10 FEET EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE CROSSED LINE. EACH END OF THE SLEEVE SHALL BE SEALED WITH A FERROD RUBBER COUPLER.
- UTILITY TRENCHING SHALL BE DONE IN ACCORDANCE WITH WSDOT STANDARD PLAN B-55.20-00.
- IF FIELD GRADE ADJUSTMENTS ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY AND SHALL BE RESPONSIBLE FOR PROTECTING THE EXISTING STORM WATER MANAGEMENT SYSTEM FROM SEDIMENTATION. THE CONTRACTOR SHALL TAKE THE NECESSARY MEASURES TO PROTECT EXISTING IMPROVEMENTS BY USING EROSION AND SEDIMENT CONTROLS, INCLUDING BUT NOT LIMITED TO, STABILIZED CONSTRUCTION ENTRANCES, SEDIMENT BARRIERS, SILT FENCES, AND INLET PROTECTION.
- UNLESS ELEVATIONS AND/OR CONTOURS ARE OTHERWISE SHOWN, NEW FINISH GRADE SURFACES SHALL BE PLACED TO ALLOW FOR POSITIVE DRAINAGE TO CURB, GUTTER, OR OTHER RUNOFF COLLECTION DEVICES. MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDINGS.
- THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANIES FOR ALL REQUIREMENTS AND TO CONFIRM THAT AN ADEQUATE DEPTH OF COVER IS MAINTAINED OVER THE UTILITIES.
- AREAS DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE CONSTRUCTED OR REPAIRED TO ORIGINAL CONDITIONS OR BETTER.
- EXISTING PROPERTY CORNERS AND SURVEY MONUMENTS SHALL BE PROTECTED DURING CONSTRUCTION. ANY DAMAGED OR OBLITERATED CORNERS OR MONUMENTS SHALL BE RE-ESTABLISHED BY A PROFESSIONAL SURVEYOR.
- APPROVALS AND PERMITS REQUIRED BY THE GOVERNING REGULATORY AGENCIES SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION, INCLUDING A CONSTRUCTION GENERAL STORM WATER PERMIT IF REQUIRED. THE CONTRACTOR SHALL COORDINATE WITH THE GOVERNING REGULATORY AGENCIES TO DETERMINE IF A PRE-CONSTRUCTION MEETING IS REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL IN ACCORDANCE WITH MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS. COORDINATE REQUIREMENTS WITH THE GOVERNING REGULATORY AGENCY.
- SAFETY STANDARDS AND REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND COMPLIED WITH AS SET FORTH BY OSHA.
- THE CONTRACTOR SHALL COORDINATE WITH THE GOVERNING REGULATORY AGENCY REGARDING INSPECTION AND TESTING REQUIREMENTS. INSPECTION, TESTING, COMPACTION, AND DISINFECTION REQUIREMENTS SHALL CONFORM WITH WSDOT, ANWA, AND APWA SPECIFICATIONS.
- COORDINATE THE INSTALLATION OF REGULATORY SIGNS WITH THE GOVERNING REGULATORY AGENCY.
- WHERE NEW ASPHALT JOINS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAWCUT TO A NEAT, VERTICAL EDGE AND TACKED WITH ASPHALT EMULSION IN ACCORDANCE WITH WSDOT SPECIFICATIONS. THE NEW ASPHALT SHALL BE FEATHERED BACK OVER THE EXISTING ASPHALT TO PROVIDE FOR A SEAL AT THE SAWCUT LOCATION.
- GROUNDWATER OR UNANTICIPATED GEOLOGIC CONDITIONS SHALL BE REPORTED TO THE GEOTECHNICAL ENGINEER FOR ASSESSMENT AND RECOMMENDATIONS.
- ALL COMPACTION EFFORTS SHALL BE MONITORED AND TESTED BY AN EXPERIENCED SOILS TECHNICIAN, UNDER THE SUPERVISION OF A LICENSED GEOTECHNICAL ENGINEER REPRESENTING THE OWNER. ALL MASS GRADING SHALL BE MONITORED, TESTED AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER (GEOTECHNICAL ENGINEER).
- PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000 BEFORE YOU DIG.
- "ON-SITE GRADING SHALL BE IN ACCORDANCE WITH THE APPROVED GRADING PLAN AND ESC PLAN. ANY IMPORT OR EXPORT OF MATERIAL SHALL BE FROM A PREAPPROVED SOURCE/DESTINATION AND COORDINATED WITH THE SPOKANE COUNTY DEPARTMENT OF BUILDING AND PLANNING AT 477-3075. GRADING ON THIS SITE OR ANY OTHER SITE MUST COMPLY WITH ALL DEVELOPMENT REGULATIONS INCLUDING, BUT NOT LIMITED TO, GRADING PERMITS, SEPA REVIEW, TIMBER HARVEST PERMITS, CRITICAL AREAS, FLOODPLAINS, DESIGNATED DRAINAGEWAYS, ETC."

CONSTRUCTION SPECIFICATIONS

NTS

Provide fresh, clean new crop seed complying with tolerance for purity and germination established by Official Seed Analysts of North America. Provide seed mixture composed of grass species and percentages as follows:

20 percent Elko Perennial Rye

20 percent Durar Hard Fescue

45 percent Covar Sheep /Fescue

15 percent Reubens Canadian Bluegrass

Provide mixture composed of grass seed and fertilizer in percentages as follows:

Grass seed mixture: 90 lbs. per acre

Fertilizer: 16:16:16 timed release composition, 300 lbs. per acre

All seeding of slopes shall be done in accordance with WSDOT Standard Specifications.

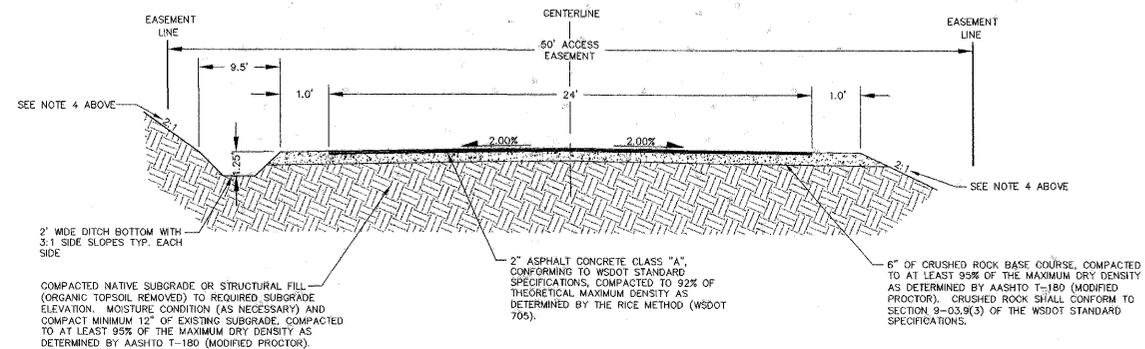
SEEDING SPECIFICATIONS

NTS

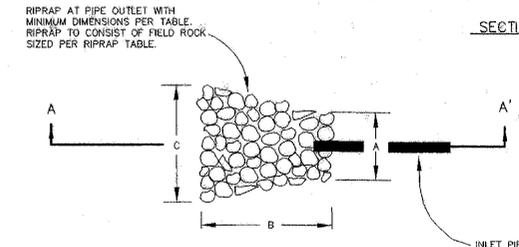
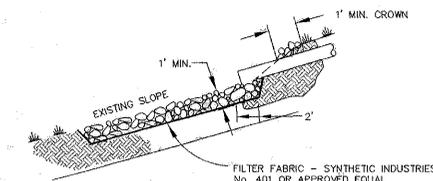
NOTES

- PLACE ACCEPTABLE SOIL MATERIAL IN LAYERS TO REQUIRED SUBGRADE ELEVATIONS.
- MATERIAL AND COMPACTION REQUIREMENTS SHALL CONFORM WITH WSDOT STANDARDS AND GEOTECHNICAL ENGINEERING RECOMMENDATIONS ASSOCIATED WITH THE SUBJECT SITE.
- IF THE EXISTING SUBGRADE SOIL CONDITIONS INHIBIT PROPER COMPACTION, IT MAY BE NECESSARY TO OVEREXCAVATE A MINIMUM 12" AND REPLACE WITH APPROVED ONSITE MATERIAL OR IMPORTED MATERIAL.
- THE GEOTECHNICAL ENGINEERING REPORT BY CUMMINGS GEOTECHNOLOGY, INC. DATED JULY 10, 2007, ALLOWS FOR STEEPER CUT AND FILL SLOPES WITH CONDITIONS REFER TO REPORT FOR SPECIFIC DETAILS.
- NEW EMBANKMENT FILL SLOPES SHOULD BE CONSTRUCTED NO STEEPER THAN 2 HORIZONTAL ON 1.0 VERTICAL (50%). THE EMBANKMENT THAT IS TO BE CONSTRUCTED AT ABOUT STA 3+00 TO 4+00 CAN BE MADE AS STEEP AS 1.5 HORIZONTAL ON 1.0 VERTICAL BY CONSTRUCTING IT WITH SELECT MATERIAL CONSISTING OF WELL GRADED BASALT SHOTROCK THAT IS SCREENED SO THAT FRAGMENTS ARE NO LARGER THAN 6 INCHES. THIS MATERIAL SHOULD BE PLACED IN LIFTS NO THICKER THAN 12 INCHES, MOISTENED, AND COMPACTED WITH AT LEAST SIX COMPLETE SLOW PASSES OF A VIBRATORY ROLLER OF AT LEAST 10 TONS STATIC WEIGHT.
- NEW SOIL CUT SLOPES SHOULD BE CONSTRUCTED NO STEEPER THAN 1.5 HORIZONTAL ON 1 VERTICAL (67%). ANY EXPOSED GNEISS BEDROCK CUT SLOPES CAN BE CONSTRUCTED AS STEEP AS 0.5 HORIZONTAL ON 1 VERTICAL.
- THE EROSION CONTROL BLANKET FOR DITCH REINFORCEMENT SHALL BE PLACED IN DITCHES PER MANUFACTURERS SPECIFICATIONS.
- THE GRASS MIXTURE FOR DITCH REINFORCEMENT SHALL BE PER SEEDING SPECIFICATIONS ON THIS SHEET.
- THE PLACEMENT OF RIP-RAP ROCK FOR DITCH REINFORCEMENT SHALL FOLLOW THE PROCEDURES OUTLINED IN THE 2006 WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION SECTION 2-12.3(4).

DITCH #	STATIONS	DEPTH	REQUIRED REINFORCEMENT
1	1+00 TO 3+50	-	GRASS MIXTURE
2	3+50 TO 5+50	1'	PP-5 EROSION CONTROL BLANKET
3	5+50 TO 10+50	1'	RIP-RAP ROCK 4" MIN. 8" MAX. 6" AVG.
4	10+50 TO 14+30	1'	PP-5 EROSION CONTROL BLANKET
5	14+30 TO 20+50	1'	RIP-RAP ROCK 4" MIN. 8" MAX. 6" AVG.
6	20+50 TO END	-	GRASS MIXTURE



LANE	STATION	ROCK SIZE			PAD DIMENSIONS			
		MIN.	AVG.	MAX.	A	B	C	
18" CULVERT	3+52	6"	8"	10"	12"	4.5'	15'	17'
24" CULVERT	8+85	6"	8"	10"	12"	6'	15'	17'
12" CULVERT	17+95	6"	8"	10"	12"	3'	15'	17'
12" CULVERT	22+15	6"	8"	10"	12"	3'	15'	17'
12" CULVERT	24+85	6"	8"	10"	12"	3'	15'	17'
12" CULVERT	26+80	6"	8"	10"	12"	3'	15'	17'
CUL-DE-SAC	LOW PT.	6"	8"	10"	12"	3'	15'	17'
RETAINING WALL TO CULVERT		6"	8"	10"	12"			SEE PLAN



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1938
DATE ACCEPTED: 12/12/07
ACCEPTANCE EXPIRES: 12/12/09
PROJECT LANE MILES PUBLIC: 0.50
PROJECT LANE MILES PRIVATE: 0.50
CONSTRUCTION DOCUMENTATION AND CERTIFIED
RECORD DRAWINGS, "AS-BUILT" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3500
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION.

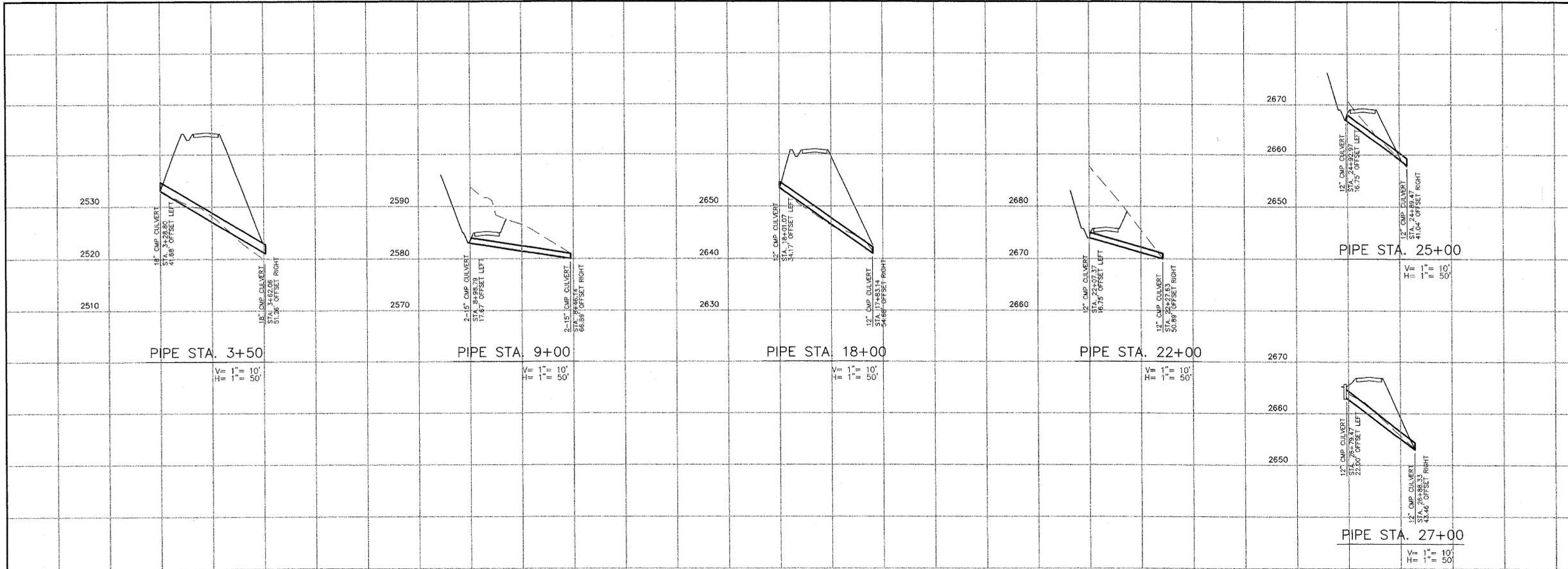
STORHAUG ENGINEERING
LAND SURVEYING LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING LAND USE PLANNING
510 EAST THIRD AVE. SPOKANE, WA 99202
PHONE 509-242-1000 FAX 509-242-1000

DETAIL SHEET
STREET AND STORM DRAINAGE
ELK RIDGE ESTATES
SPOKANE COUNTY, WASHINGTON

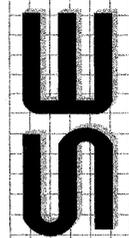
DATE: 11/27/07
DRAWN: KSN
CHECKED: CJH
PROJECT NUMBER: 06-327
DRAWING NO.: 6 OF 7
DETAILS

CALL BEFORE YOU DIG 456-8000

P. 1938 Englund Drainage



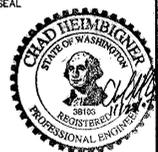
No.	DESC.	DATE	BY



STORHAUG ENGINEERING
 LAND SURVEYING LANDSCAPE ARCHITECTURE
 CIVIL ENGINEERING LAND USE PLANNING
 510 EAST THIRD AVE SPOKANE, WA 99202
 PHONE 509-242-1000 FAX 509-242-1001

SHEET TITLE
DETAIL SHEET
STREET AND STORM DRAINAGE
 PROJECT TITLE
ELK RIDGE ESTATES
SPOKANE COUNTY, WASHINGTON

SPOKANE COUNTY ENGINEERS OFFICE
 OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
 PROJECT #: P1838
 DATE ACCEPTED: 11/27/07
 ACCEPTANCE EXPIRES: 12/31/10
 PROJECT LANE MILES PUBLIC: 0.20
 PROJECT LANE MILES PRIVATE: 0.20
 RECORD DRAWINGS, AS BUILT ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
 PERMIT REQUIRED! (509) 471-3600
 NOTIFY PERMIT ENGINEER & BUSINESS DAYS PRIOR TO CONSTRUCTION



DEVELOPER: [Signature] DATE: 11-28-07

DATE	11/27/07
DRAWN	KSN
CHECKED	CJH
PROJECT NUMBER	06-327
DRAWING NO.	7 OF 7

CALL BEFORE YOU DIG 456-8000

P-1838 Eng. Land Drainage