

**GENERAL NOTES**

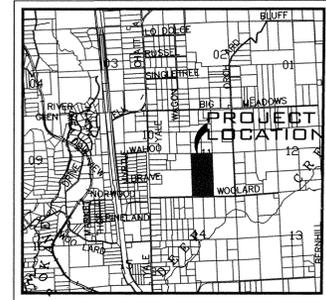
- ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED SITE WORK STANDARDS AND THE STANDARDS AND SPECIFICATIONS SET FORTH IN SPOKANE COUNTY REGULATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN PUBLIC R.O.W. OR EASEMENTS SHALL BE INSPECTED AND APPROVED BY THE SPOKANE COUNTY INSPECTOR. INSPECTION SERVICES AND CONSTRUCTION CERTIFICATION TO BE PROVIDED BY DESIGNEE OF PROJECT SPONSOR/OWNER.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT THE CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE SPOKANE COUNTY INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.
- THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE SPOKANE COUNTY AND ALL UTILITY COMPANIES WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.
- THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB ON-SITE AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
- IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES, WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
- ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
- FOR WORK AFFECTING PUBLIC ROADWAYS OR IF REQUIRED BY SPOKANE COUNTY THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL AND PHASING PLAN, IN ACCORDANCE WITH M.U.T.C.D. FOR APPROVAL PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN OR AFFECTING THE RIGHT-OF-WAY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY SAID PLANS. PRIOR TO INSTALLATION AND PRECONSTRUCTION CONFERENCE SHALL BE HELD WITH SPOKANE COUNTY.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED, CONSTRUCTED, REMOVED OR RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE.
- PER AGENCY STANDARDS THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING RECORD INFORMATION ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE AND AVAILABLE TO THE SPOKANE COUNTY INSPECTOR AT ALL TIMES.
- DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. FOR ADDITIONAL INFORMATION CONTACT THE ENGINEER FOR CLARIFICATION AND NOTE ON THE RECORD DRAWINGS.
- ALL EROSION AND SEDIMENT CONTROL (E.S.C.) MEASURES SHALL BE INSTALLED AT THE LIMITS OF CONSTRUCTION PRIOR TO GROUND-DISTURBING ACTIVITY. ALL E.S.C. MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.
- THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF WATER LINES AND DRY UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL UTILITY RELOCATIONS CONSISTENT WITH THE CONTRACTORS SCHEDULE FOR THIS PROJECT, WHETHER SHOWN OR NOT SHOWN, AS IT RELATES TO THE CONSTRUCTION ACTIVITIES CONTEMPLATED IN THESE PLANS.
- ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF THE SPOKANE COUNTY ENGINEERING DEPARTMENT STANDARD DETAILS AND SPECIFICATIONS.
- ALL CONSTRUCTION OPERATIONS, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTH MOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED EQUIPMENT SHALL GENERALLY BE LIMITED TO THE TIME PERIOD APPROVED BY SPOKANE COUNTY.
- BASED ON A REQUIREMENT FROM THE SPOKANE COUNTY THE ENGINEER OR HIS DESIGNEE SHALL PERFORM MATERIALS TESTING AND QUALITY CONTROL ON THE PROJECT AND SHALL SUBMIT COPIES OF DAILY REPORTS, TEST REPORTS, PROJECT CERTIFICATION AND RECORD DRAWINGS TO THE SPOKANE COUNTY ENGINEER.
- NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL BY THE SPOKANE COUNTY ENGINEER AND NOTIFICATION OF THE ENGINEER OF RECORD.

**ABBREVIATIONS**

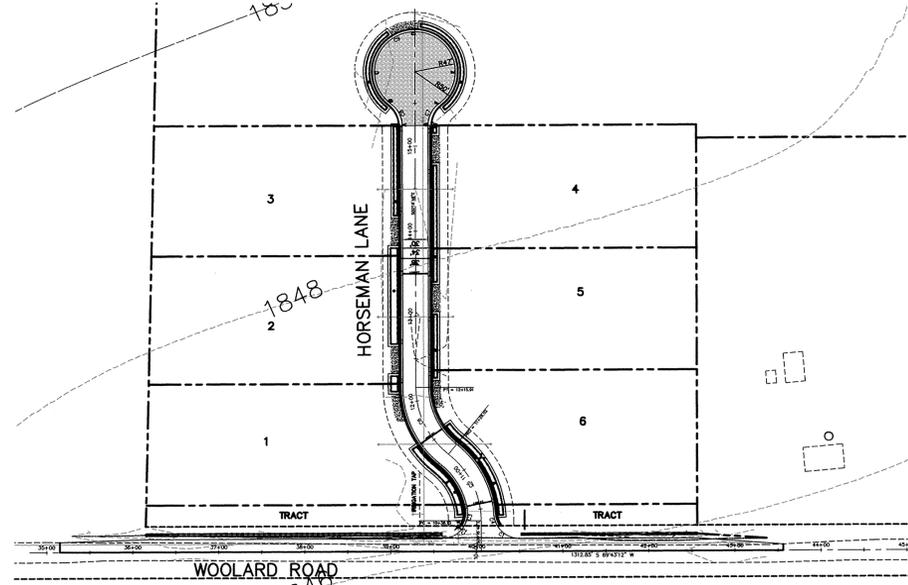
SS.....SANITARY SEWER	PI.....POINT OF INTERSECTION	STA.....STATION
WM.....WATER MAIN	PC.....POINT OF CURVE	G.....GRADE
MH.....MANHOLE	PT.....POINT OF TANGENCY	GB.....GRADE BREAK
EXIST.....EXISTING	PRC.....POINT OF REVERSE CURVE	I.E.....INVERT ELEVATION
CO.....SEWER CLEANOUT	CT.....COURT	RIM EL.....RIM ELEVATION
HYD.....HYDRANT	RD.....ROAD	DIA.....DIAMETER
RT.....RIGHT	LN.....LANE	SI.....STREET INTERSECTION
LT.....LEFT	STA. L.....STATION LENGTH	BDRY.....BOUNDARY
	ACT L.....ACTUAL LENGTH	PET.....PETROLEUM

# STREET AND DRAINAGE PLANS WOOLARD RANCH

## SE. 1/4 OF SECT. 11, T. 27 N., R. 43 E. W.M. SPOKANE COUNTY, WASHINGTON

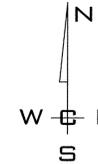


VICINITY MAP



SITE PLAN

SCALE: 1" = 100'



**LEGEND**

EXISTING	GENERAL	PROPOSED
---	ROADWAY CENTER LINE	---
---	RIGHT OF WAY LINE	---
---	PROPERTY LINE	---
---	EASEMENT LINE	---
x-x	FENCE	x-x
---	CURB	---
---	PAVEMENT	---
---	GRAVEL	---
---	CONCRETE	---
---	BUILDINGS & STRUCTURES	---
<b>SANITARY SEWER</b>		
---	SANITARY SEWER	---
---	MANHOLE	---
---	CLEANOUT	---
---	SEWER SERVICE	---
<b>WATER</b>		
---	WATER LINE	---
---	VALVE	---
---	FIRE HYDRANT SERVICE	---
---	METER	---
---	BLOWOFF	---
---	AIR VACUUM RELIEF STATION	---
<b>STORM DRAINAGE</b>		
---	DRAINAGE LINE	---
---	MANHOLE	---
---	DRYWELL	---
---	CATCH BASIN	---
---	DITCH	---
<b>NATURAL GAS</b>		
---	GAS LINE	---
---	VALVE	---
---	METER	---
<b>TELEPHONE -- POWER</b>		
---	BURIED TELEPHONE	---
---	POWER OR TELEPHONE POLE	---
---	BURIED POWER	---
---	TRANSFORMER PAD	---
---	TELEPHONE RISER	---
---	TELEPHONE VAULT	---
---	OVERHEAD POWER	---
---	GUY ANCHOR	---
---	POWER VAULT	---
---	LIGHT POLE	---

**STREET GENERAL NOTES**

THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT TO CONSTRUCT AND INSTALL TO PROPER WORKING ORDER. ALL IMPROVEMENTS AS DETAILED OR CALLED OUT ON THESE PLANS.

- ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION, CURRENT EDITION", AND AS AMENDED.
- THE CONTRACTOR IS REQUIRED TO HAVE A VALID CONSTRUCTION PERMIT ON SITE AT ALL TIMES. THE ABSENCE OF THE PERMIT WILL RESULT IN AN IMMEDIATE SHUTDOWN OF WORK AND THE POSSIBLE REMOVAL OF THOSE ITEMS CONSTRUCTED WITHOUT THE PERMIT.
- LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.
- THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE 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, TODD R. WHIPPLE, P.E., @ 458-6840, THE SITE/PROJECT INSPECTING ENGINEER OR HIS REPRESENTATIVE, ALL-WEST, PAUL NELSON, P.E., @ 534-4411 AND THE SPOKANE COUNTY ENGINEER'S OFFICE, CONSTRUCTION ENGINEER, @ 477-3600.
- FOR CONSTRUCTION OF DRYWELLS INSTALL FILTER FABRIC "AMOCO" 4545 OR APPROVED EQUAL BETWEEN THE WASHED DRAINROCK AND NATIVE SOILS PER SPOKANE COUNTY STANDARD DETAIL B-1g.
- PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000 BEFORE YOU DIG.
- THE CONTRACTOR SHALL MAKE AN EFFORT TO PROTECT ALL CATCH BASINS AND DRYWELLS FROM BEING CONTAMINATED WITH SILT BY INSTALLING FILTER FABRIC UNDER THE LID FOR AT LEAST 6 WEEKS, OR UNTIL THE ESTABLISHMENT OF GRASS AND/OR OTHER SITE CONSTRUCTION WORK HAS ENDED.

IN THE EVENT THAT SILT OR OTHER DELETERIOUS MATERIAL IS ALLOWED TO ENTER THE DRYWELLS OR CATCH BASINS THE CONTRACTOR WILL BE REQUIRED TO CLEAN OUT THE DRYWELL OR CATCH BASIN TO THE SATISFACTION OF THE CERTIFYING ENGINEER.

9. THE CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR TO VERIFY THAT THE CROSS-GUTTER FORMS ARE THE CORRECT PLANE GRADE PRIOR TO CONCRETE PLACEMENT. THE CROSS-GUTTERS SHALL BE CONSTRUCTED PRIOR TO PAVING, AND THE PAVEMENT SHALL THEN MATCH THE EDGE OF CONCRETE GUTTER.

10. ALL DRYWELL CONNECTION PIPES SHALL BE PLACED BELOW THE DRYWELL CONE AND SHALL FLOW AS DIRECTED IN THE PLANS.

11. FOR ANY CURB GRADES LESS THAN 0.8 % (0.008 FT./FT.), A WASHINGTON STATE LICENSED PROFESSIONAL LAND SURVEYOR SHALL VERIFY THAT THE CURB FORMS ARE AT THE GRADES NOTED ON THE APPROVED PLANS. PRIOR TO PLACEMENT OF CURB MATERIAL, THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING AND COORDINATING WORK WITH THE PROFESSIONAL LAND SURVEYOR.

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

**OWNER**

DOUGLAS PARCEL, LLC  
P.O. BOX 234  
COLBERT, WASHINGTON 99217  
PHONE: 509-487-9792  
FAX: 509-487-1580

**SURVEYOR**

ROBERT ADAMS, P.L.S.  
3914 E. CONGRESS AVENUE  
SPOKANE, WASHINGTON 99223  
PHONE: 509-879-3329  
CONTACT: ROBERT ADAMS, P.L.S.

**WATER PURVEYOR**

WHITWORTH WATER DISTRICT NO. 2  
N. 10828 WAIKIKI  
SPOKANE, WASHINGTON 99248  
PHONE: 509-466-0550  
FAX: 509-467-1830  
CONTACT: DOUG BABIN

**FIRE DEPARTMENT**

FIRE DISTRICT NO. 4  
3219 E. CHATTAHOY ROAD  
CHATTAHOY, WASHINGTON 99003  
PHONE: 509-467-4500  
FAX: 509-467-6032  
CONTACT: JOE KRIZANIC

**ROADWAYS**

SPOKANE COUNTY ENGINEERING  
1026 WEST BROADWAY AVENUE  
SPOKANE, WASHINGTON 99260  
PHONE: 509-477-3600  
FAX: 509-477-7655  
CONTACT: MATT ZARECOR, P.E.

**BUILDING OFFICIAL**

SPOKANE COUNTY  
1026 WEST BROADWAY AVE.  
SPOKANE, WASHINGTON 99260  
PHONE: 509-477-7200  
FAX: 509-477-4703  
CONTACT: KATHY SANDERS

**TELEPHONE**

QWEST  
904 NORTH COLUMBUS  
SPOKANE, WASHINGTON, 99202  
PHONE: 509-455-2580  
FAX: 509-477-4703  
CONTACT: DAVE CLARK

**CABLE**

COMCAST BROADBAND  
1717 EAST BUCKEYE  
SPOKANE, WASHINGTON, 99207  
PHONE: 509-484-4931  
FAX: 509-483-9261  
CONTACT: JOEL BORST

**INSPECTION**

ALL-WEST  
1010 N. LAKE ROAD  
SPOKANE, WASHINGTON 99212  
PHONE: 509-534-4411  
FAX: 509-534-9326  
CONTACT: PAUL T. NELSON, P.E.

**NATURAL GAS**

AVISTA UTILITIES  
1411 EAST MISSION AVENUE  
SPOKANE, WA 99220  
PHONE: 509-495-4744  
FAX: 509-495-8713  
CONTACT: LOIS MCCAIN

**POWER**

INLAND POWER AND LIGHT  
320 EAST 2ND. AVENUE  
SPOKANE, WA 99202  
PHONE: 509-747-7151  
FAX: 509-747-7987  
CONTACT: MARY SHELLEY

**SOLID WASTE**

WASTE MANAGEMENT  
PHONE: 509-466-3400

**ENGINEER**

WHIPPLE CONSULTING ENGINEERS  
13218 E. SPRAGUE AVENUE  
SPOKANE VALLEY, WA 99216  
PHONE: 509-893-2617  
FAX: 509-926-0227  
CONTACT: TODD WHIPPLE, P.E.

N.A.V.D. 88 DATUM

SPOKANE COUNTY MONUMENT AT THE SOUTHEAST ONE QUARTER CORNER OF SECTION 11, TOWNSHIP 27 NORTH, RANGE 43 EAST, W.M. ELEVATION=1850.04

*Arley C. Doyan*  
DEVELOPER'S APPROVAL

5-11-08  
DATE

NO.	DATE	BY	REVISIONS
5	05/10	RLM	SUBMITTAL FOR APPROVAL
4	04/18	RLM	3RD. SUBMITTAL TO SPOKANE COUNTY ENGINEERS
3	03/15	RLM	2ND. SUBMITTAL TO SPOKANE COUNTY ENGINEERS
2	03/03	RLM	1ST. SUBMITTAL TO SPOKANE COUNTY ENGINEERS
1	11/22	RLM	ORIGINAL PLAN PREPARATION

**SCALE:**

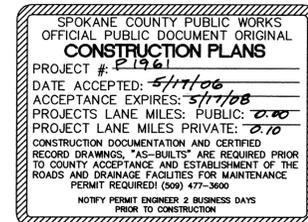
HORIZONTAL:  
AS SHOWN  
VERTICAL:  
AS-SHOWN

PROJ #: 2005-124  
DATE: 12/27/05  
DRAWN: RLM  
APPROVED: TRW



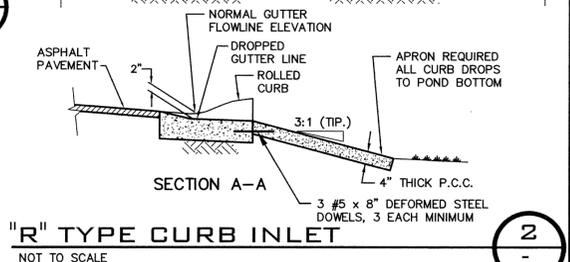
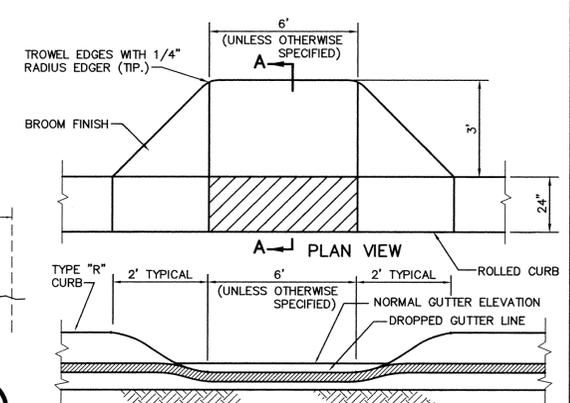
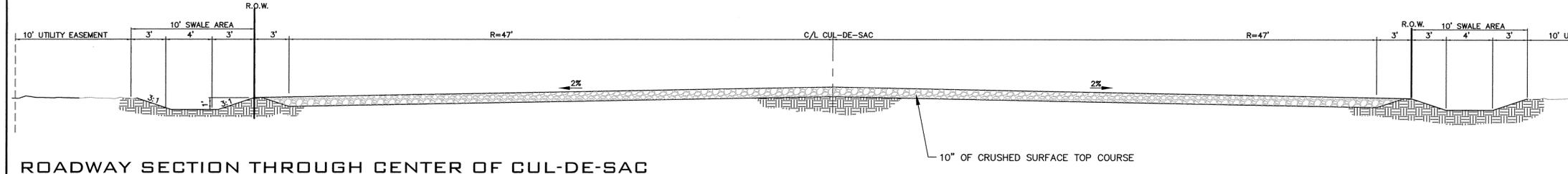
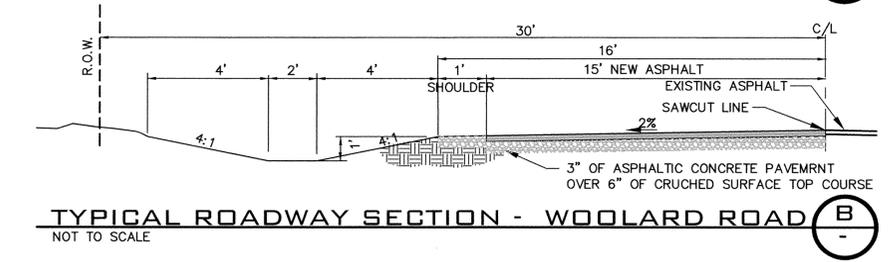
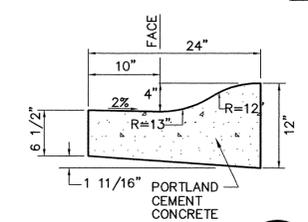
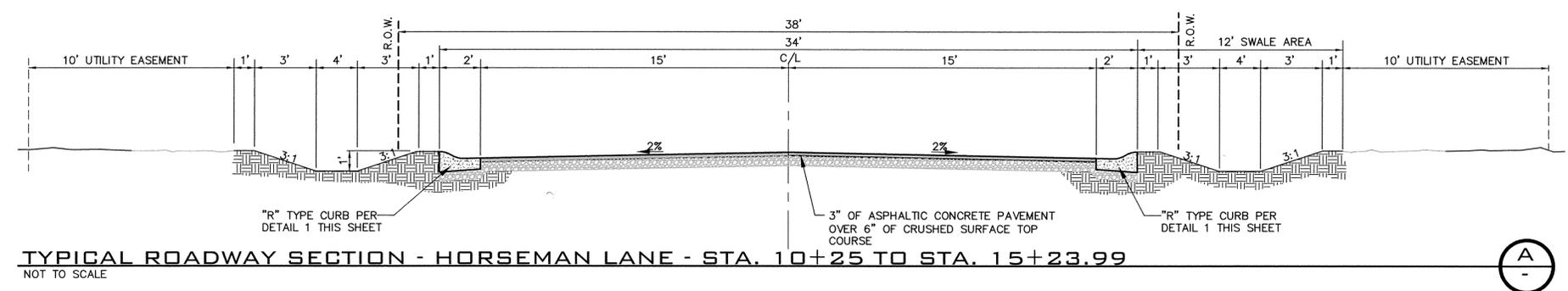
**STREET AND DRAINAGE PLANS  
WOOLARD RANCH  
COVER SHEET  
SPOKANE COUNTY, WASHINGTON**

**SHEET  
1 OF 7**  
JOB NUMBER  
2005-124

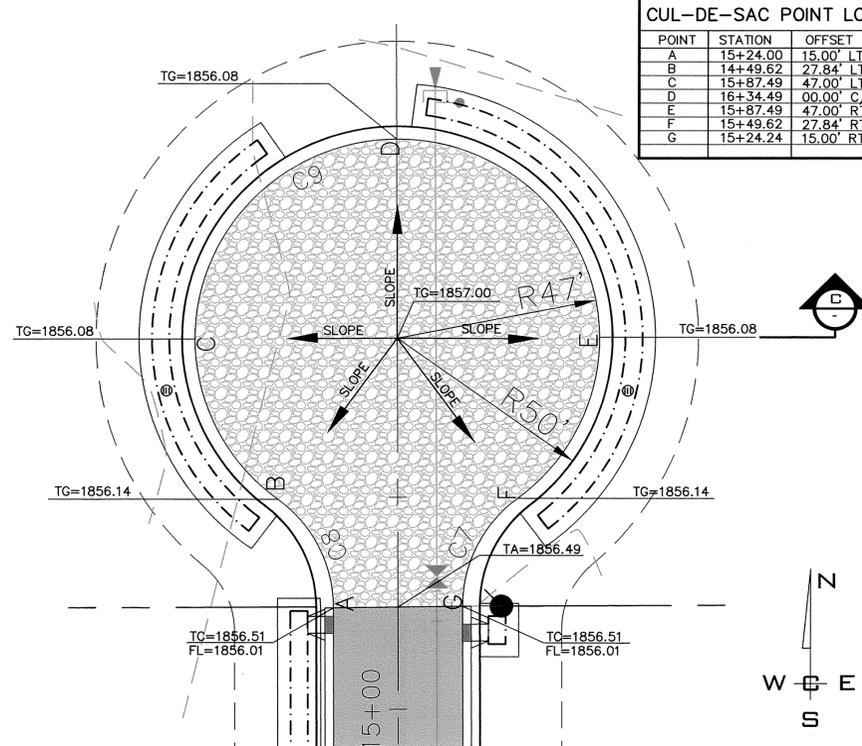


P-1961  
*Eng. Todd R. Whipple*

**UNDERGROUND SERVICE ALERT**  
**ONE-CALL NUMBER**  
**456-8000**  
 CALL TWO BUSINESS DAYS BEFORE YOU DIG



POINT	STATION	OFFSET	RADIUS	DISTANCE	ELEVATION
A	15+24.00	15.00' LT.	31.50'	29.75'	1856.51
B	14+49.62	27.84' LT.	47.00'	44.03'	1856.14
C	15+87.49	47.00' LT.	47.00'	74.06'	1856.08
D	16+34.49	00.00' C/L	47.00'	74.06'	1856.08
E	15+87.49	47.00' RT.	47.00'	73.60'	1856.08
F	15+49.62	27.84' RT.	47.00'	44.03'	1856.14
G	15+24.24	15.00' RT.	31.50'	29.51'	1856.51

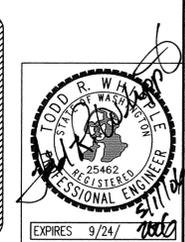


**STORM DRAINAGE NOTES**

- SEE STREET PLAN AND PROFILE SHEETS FOR DRYWELL AND CATCH BASIN TYPES AND LOCATIONS.
- SWALES SHALL BE CONSTRUCTED PER THE REQUIREMENTS OF THESE DRAWINGS INCLUDING GRADING, SOD, AND DRYWELL INSTALLATION. ALL SWALES WITHIN TRACTS SHALL INCLUDE AN IRRIGATION SYSTEM. ALL IRRIGATION SHALL CONFORM TO SPOKANE COUNTY SWALE IRRIGATION SYSTEM GUIDELINES.
- ALL "208" SWALES SHOWN SHALL BE ROUGH GRADED PRIOR TO PAVING OF ADJACENT ROADWAY.
- CONTRACTOR SHALL PROVIDE SPOKANE COUNTY WITH AS-BUILT IRRIGATION PLANS UPON COMPLETION OF ALL SWALE CONSTRUCTION.
- INSTALL "AMOCO" #4545 FILTER FABRIC (OR APPROVED EQUAL) IN ALL DRYWELLS. SEE SPOKANE COUNTY STANDARDS (1999 EDITION) SHEET B-1a FOR INSTALLATION LOCATIONS.
- ALL SWALES WITHIN THE COUNTY RIGHT-OF-WAY, IN THE AREA ASSOCIATED WITH THIS PROJECT, SHALL BE COMPLETED DURING THE CONSTRUCTION OF THE ROADWAY. THE CONTRACTOR SHALL PERFORM THE SWALE GRADE WORK, INSTALL THE IRRIGATION SYSTEM, AND PLACE THE SOD WITHIN THE SWALES FOLLOWING THE ROAD PAVING WORK.
- THE CONTRACTOR SHALL MAKE AN EFFORT TO PROTECT ALL DRAINAGE STRUCTURES FROM BEING CONTAMINATED WITH SILT BY INSTALLING FILTER FABRIC UNDER THE LID FOR AT LEAST 6 WEEKS, OR UNTIL THE ESTABLISHMENT OF GRASS AND/OR OTHER SITE CONSTRUCTION WORK HAS ENDED. IN THE EVENT THAT SILT OR OTHER DELETERIOUS MATERIAL IS ALLOWED TO ENTER THE DRYWELLS OR CATCH BASINS, THE CONTRACTOR WILL BE REQUIRED TO CLEAN THE DRYWELL OR CATCH BASIN OUT TO THE SATISFACTION OF THE CERTIFYING ENGINEER.
- ALL LANDSCAPE AREAS ("208" SWALES) ARE TO BE IRRIGATED BY AN AN AUTOMATIC IRRIGATION SYSTEM INSTALLED BY OR UNDER THE DIRECTION OF THE LANDSCAPE CONTRACTOR. THE IRRIGATION SYSTEM SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES (90 DAY GUARANTEE). AN APPROVED BACKFLOW DEVICE SHALL BE INSTALLED TO PREVENT WATER FROM GOING BACK INTO THE WATER SUPPLY, CURBING, PAVING, ETC. AS

- SLEEVING:** PROVIDE SLEEVING AS REQUIRED UNDER SIDEWALKS, PATHS, NEEDED FOR IRRIGATION ACCESS. ALL SLEEVING TO BE 4" PVC WITH AT LEAST 12" OF COVER (1) FOOT BELOW FINISH GRADE. THE OWNER/GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING SLEEVING BEFORE CURBING, SIDEWALKS, PAVING, ETC. IS INSTALLED, PATCH ASPHALT AS NEEDED.
- LAWN AREAS:** LAWN AREAS ARE TO BE IRRIGATED WITH TORO POP-UP HEADS OR EQUIVALENT. (TEST SYSTEM BEFORE BACKFILLING). ETC. TO PROVIDE UNIFORM
- ADJUSTMENT:** AFTER INSTALLATION, ADJUST VALVES, HEADS, EMITTERS, COVERAGE AND TO MINIMIZE OVER SPRAY ON WALLS, FENCES, WALKS, DRIVES, ETC.
- WATER POWER SUPPLY:** THE OWNER/ GENERAL CONTRACTOR IS TO SUPPLY WATER TAPS FOR HOOK-UP AND SUPPLY POWER FOR CONTROLLER.
9. THE FLOOR OF A GRASSED PERCOLATION AREA (GPA) SWALE INCLUDES THE LEVEL PORTION OF THE FLOOR OF THE SWALE, AND THE SIDE SLOPES OF THE SWALE UP TO THE G.P.A. OVERFLOW ELEVATION OR TOP OF DRYWELL. THE SOIL LOCATED IN THE FLOOR OF THE G.P.A. SWALE SHALL BE A MEDIUM TO WELL-DRAINING MATERIAL, WITH A MINIMUM INFILTRATION RATE OF 0.5 INCHES PER HOUR. THE ENGINEER SHALL PROVIDE A WRITTEN STATEMENT WHICH VERIFIES THAT ALL G.P.A. SWALES CONFORM TO THIS REQUIREMENT. THIS WRITTEN STATEMENT SHALL BE SUBMITTED TO THE SPOKANE COUNTY ENGINEER'S OFFICE PRIOR TO INSTALLING FINISHED LANDSCAPING/SOD AND PRIOR TO FINAL ACCEPTANCE. THE SWALE FLOOR MATERIAL SHALL BE INSTALLED TO A NATIVE SOIL STRATUM WHICH ALSO MEETS OR EXCEEDS THIS MINIMUM PERCOLATION RATE OF 0.5 INCHES PER HOUR

SPOKANE COUNTY PUBLIC WORKS  
 OFFICIAL PUBLIC DOCUMENT ORIGINAL  
**CONSTRUCTION PLANS**  
 PROJECT #: *51106*  
 DATE ACCEPTED: *5/11/06*  
 ACCEPTANCE EXPIRES: *5/11/08*  
 PROJECTS' LANE MILES: PUBLIC: *0.00*  
 PROJECT LANE MILES PRIVATE: *0.70*  
 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) 477-3600  
 NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION



N.A.V.D. 88 DATUM  
 SPOKANE COUNTY MONUMENT AT THE SOUTHEAST ONE QUARTER CORNER OF SECTION 11, TOWNSHIP 27 NORTH, RANGE 43 EAST, W.M. ELEVATION=1850.04

*Halley Douglas*  
 DEVELOPER'S APPROVAL  
 5-11-06  
 DATE

NO.	DATE	BY	REVISIONS
5	05/10	RLM	SUBMITTAL FOR APPROVAL
4	04/18	RLM	3RD. SUBMITTAL TO SPOKANE COUNTY ENGINEERS
3	03/15	RLM	2ND. SUBMITTAL TO SPOKANE COUNTY ENGINEERS
2	03/03	RLM	1ST. SUBMITTAL TO SPOKANE COUNTY ENGINEERS
1	12/27	RLM	ORIGINAL PLAN PREPARATION

**SCALE:**  
 HORIZONTAL: AS SHOWN  
 VERTICAL: AS SHOWN

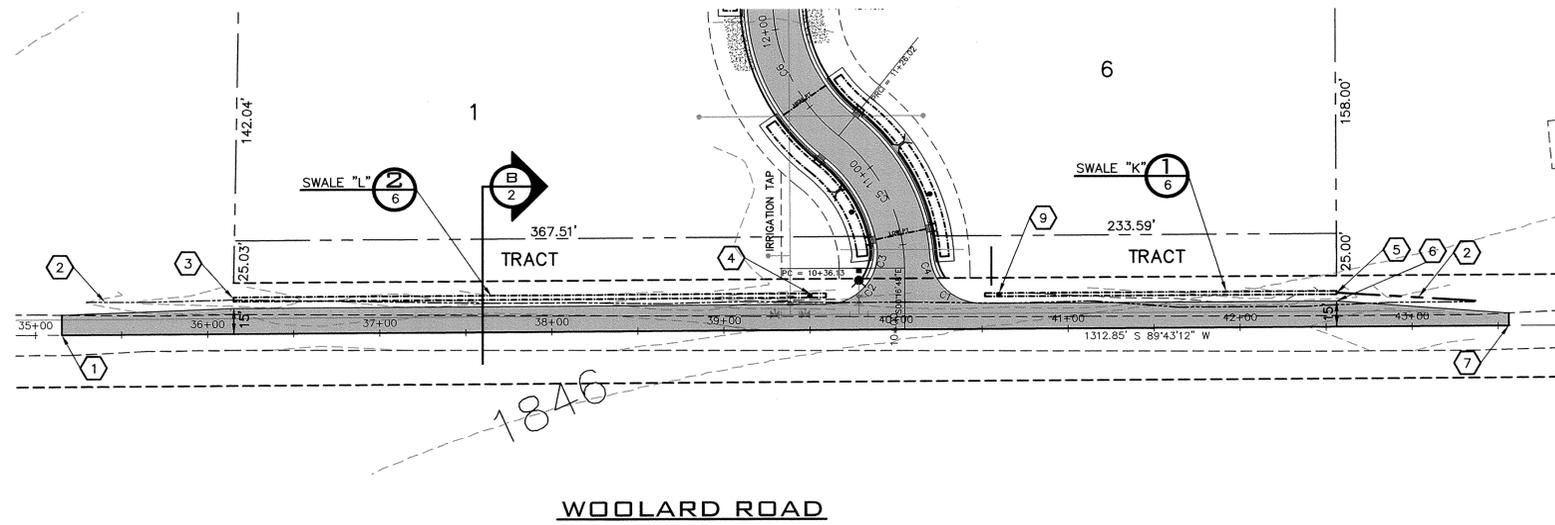
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**STREET AND DRAINAGE PLANS**  
**WOOLARD RANCH**  
 HORSEMAN LANE, DETAILS  
 SPOKANE COUNTY, WASHINGTON

**SHEET**  
 2 OF 7  
 JOB NUMBER  
 2005-124

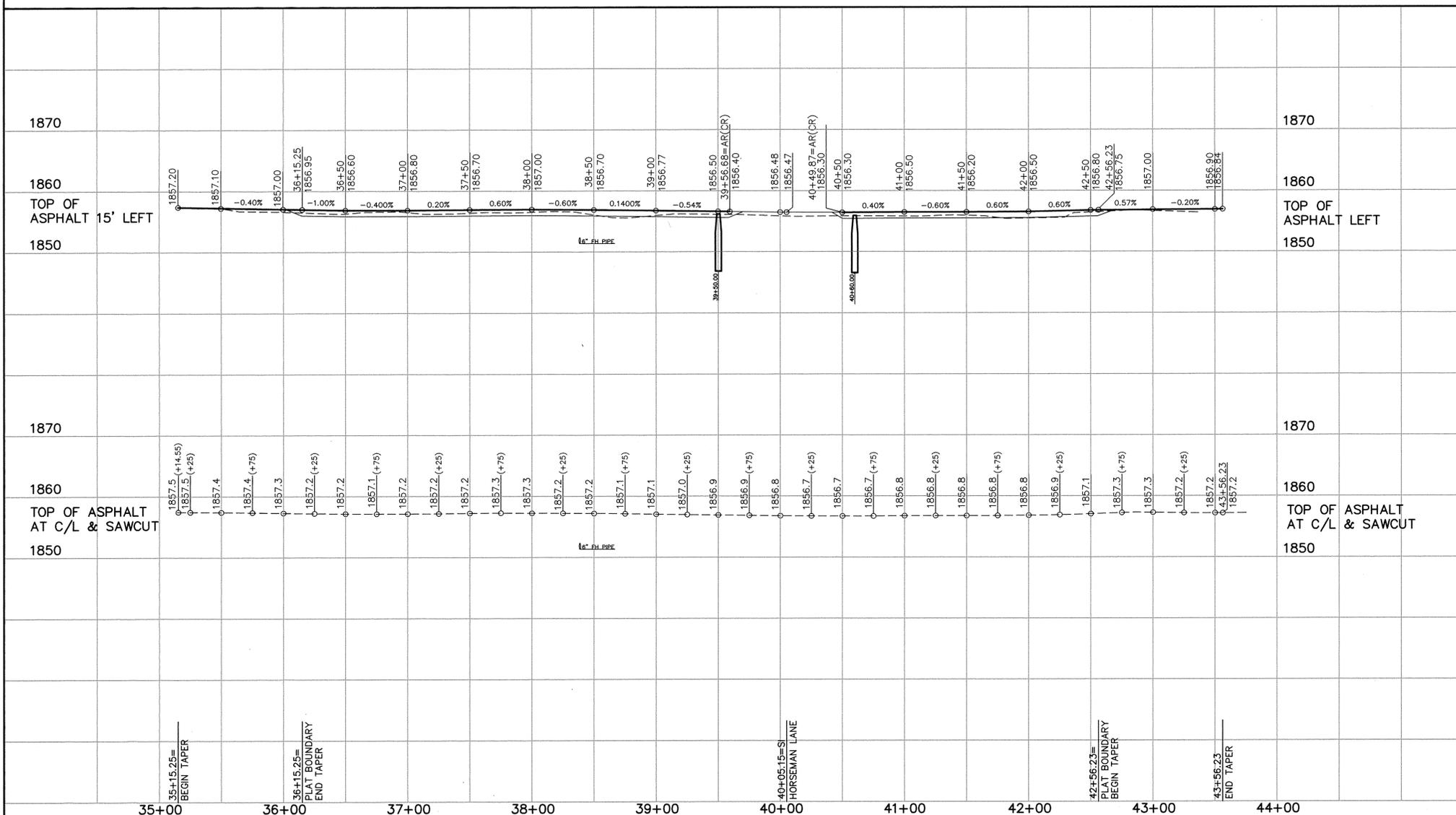
*P-1961*  
*Emy Looney*



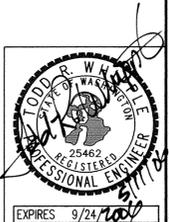
**CONSTRUCTION NOTES**

- 1 STA. 35+15.41 AT C/L BEGIN SAWCUT LINE AND BEGIN ASPHALT TAPER 11.77' LT.
- 2 EXISTING DITCH.
- 3 STA. 36+15.24 30' LT.=PLAT BOUNDARY, 15' LT. END PAVEMENT TAPER. BEGIN SWALE "L" SEE DETAIL 1 SHEET 6.
- 4 PROVIDE AND INSTALL STA. 39+50.00, 20.00' LT. TYPE "A" DRYWELL PER SPOKANE COUNTY STANDARD PLAN "B-1" SEE SWALE DETAIL 1 SHEET 6.
- 5 STA. 42+56.23 LT. END SWALE "K" AND BEGIN NEW DITCH TAPER TO EXISTING.
- 6 STA. 42+56.23, 15' LT. BEGIN ASPHALT TAPER TO THE RIGHT.
- 7 STA. 43+56.23 LT. END ASPHALT TAPER TO THE RIGHT AND MATCH TO EXISTING PER SPOKANE COUNTY STANDARDS.
- 8 EXISTING FIRE HYDRANT TO BE SET AT 29' LEFT OF C/L TO ACCOMMODATE NEW ASPHALT RETURNS.
- 9 PROVIDE AND INSTALL STA. 40+60.00, 20.00' LT. TYPE "A" DRYWELL PER SPOKANE COUNTY STANDARD PLAN "B-1" SEE DETAIL 1 SHEET 6.

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	30.00	31.42	17.32	30.00	60°00'00"
C2	30.00	31.42	17.32	30.00	60°00'00"



SPOKANE COUNTY PUBLIC WORKS  
 OFFICIAL PUBLIC DOCUMENT ORIGINAL  
**CONSTRUCTION PLANS**  
 PROJECT # - P-1961  
 DATE ACCEPTED: 5/11/06  
 ACCEPTANCE EXPIRES: 5/11/06  
 PROJECTS LANE MILES: PUBLIC: 0.00  
 PROJECT LANE MILES PRIVATE: 0.70  
 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  
 EXPIRES 9/24/2007



N.A.V.D. 88 DATUM  
 SPOKANE COUNTY MONUMENT AT THE SOUTHEAST ONE QUARTER CORNER OF SECTION 11, TOWNSHIP 27 NORTH, RANGE 43 EAST, W.M. ELEVATION=1850.04

*Auley C. Dorgan*  
 DEVELOPER'S APPROVAL

5-11-06  
 DATE

NO.	DATE	BY	REVISIONS
5	05/10	RLM	SUBMITTAL FOR APPROVAL
4	04/18	RLM	3RD. SUBMITTAL TO SPOKANE COUNTY ENGINEERS
3	03/15	RLM	2ND. SUBMITTAL TO SPOKANE COUNTY ENGINEERS
2	03/03	RLM	1ST. SUBMITTAL TO SPOKANE COUNTY ENGINEERS
1	12/27	RLM	ORIGINAL PLAN PREPARATION

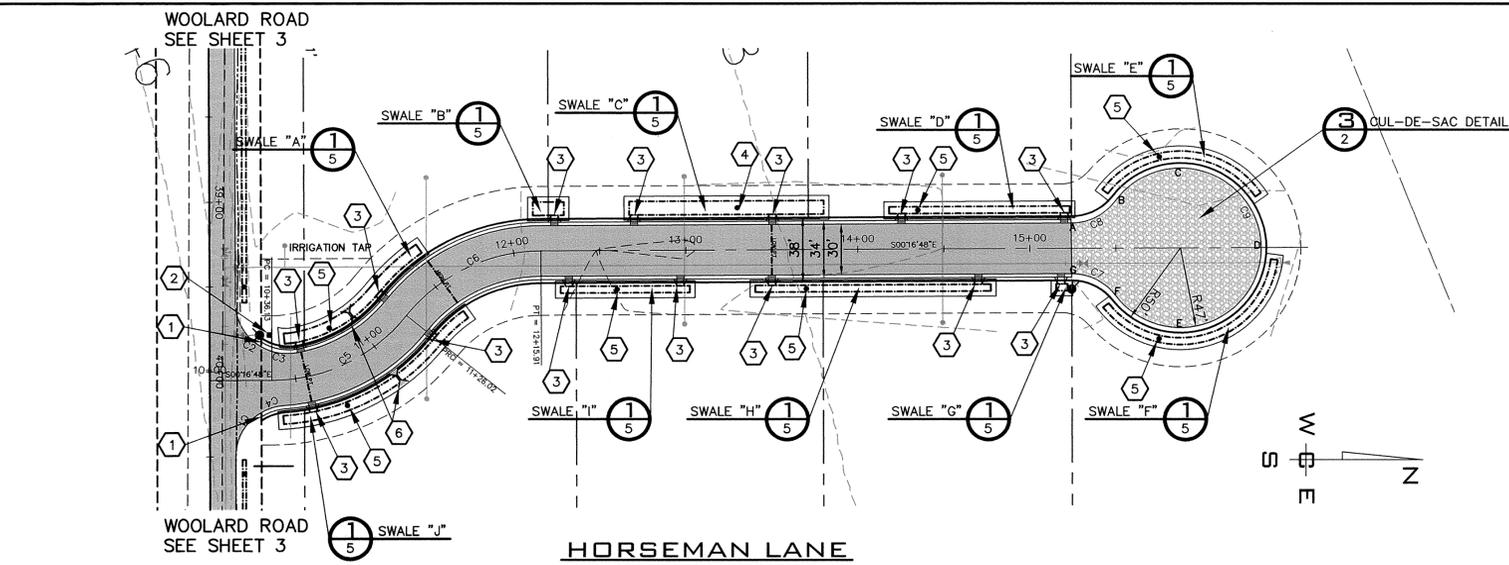
SCALE:  
 HORIZONTAL:  
 1" = 50'  
 VERTICAL:  
 1" = 10'  
 PROJ #: 2005-124  
 DATE: 12/27/05  
 DRAWN: RLM  
 APPROVED: TRW



**STREET AND DRAINAGE PLANS**  
**WOOLARD RANCH**  
 WOOLARD ROAD, STA. 35+15.25 TO STA. 43+56.23  
 SPOKANE COUNTY, WASHINGTON

**SHEET**  
 3 OF 7  
 JOB NUMBER  
 2005-124

P-196 Woolard Road

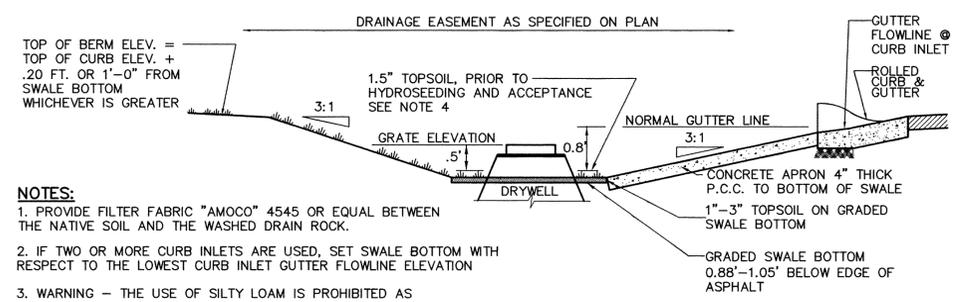


**CONSTRUCTION NOTES**

- 1 STA. 10+30, LEFT AND RIGHT BEGIN "R" TYPE CURB PER DETAIL 1 SHEET 2.
- 2 PROVIDE AND INSTALL STREET AND STOP SIGN PER SPOKANE COUNTY STANDARD PLAN A-16 AND M.U.T.C.D..
- 3 PROVIDE AND INSTALL CURB INLET TYPE "1" PER SPOKANE COUNTY STANDARD PLAN B-8.
- 4 PROVIDE AND INSTALL TYPE "B" DRYWELL PER SPOKANE COUNTY STANDARD PLAN "B-1".
- 5 PROVIDE AND INSTALL TYPE "A" DRYWELL PER SPOKANE COUNTY STANDARD PLAN "B-1".
- 6 PROVIDE AND INSTALL CHECK DAM PER DETAIL 1 SHEET 5.

**CURVE TABLE**

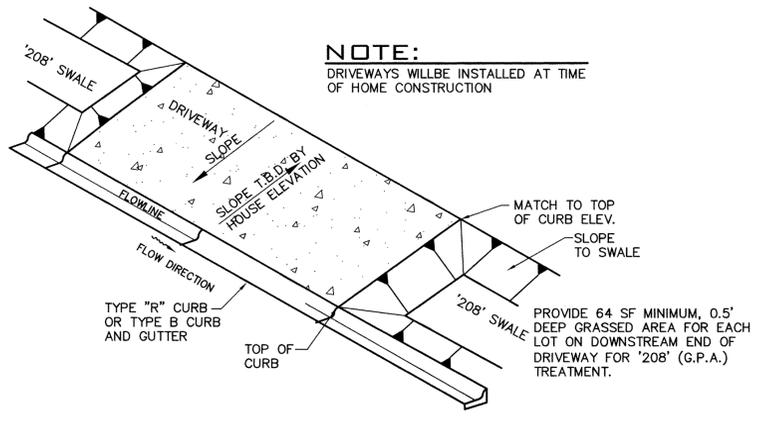
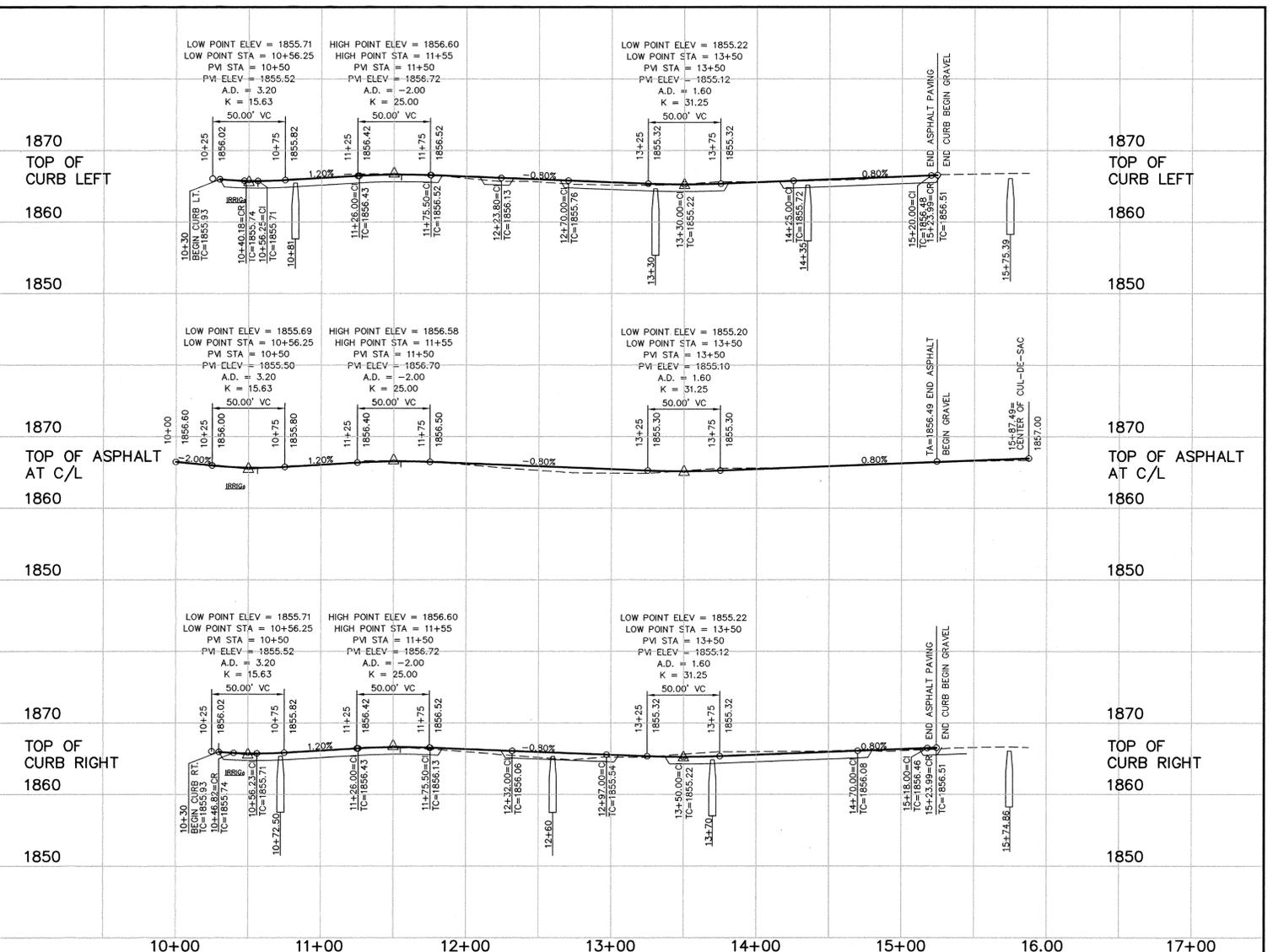
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	30.00	31.42	17.32	30.00	60°00'00"
C2	30.00	31.42	17.32	30.00	60°00'00"
C3	30.00	20.56	10.70	20.16	39°16'33"
C4	30.00	13.87	7.06	13.75	26°29'41"
C5	100.00	89.89	48.24	86.89	51°30'04"
C6	100.00	89.89	48.24	86.89	51°30'04"
C7	31.50	29.51	15.94	28.44	53°40'41"
C8	31.50	29.75	16.09	28.65	54°06'22"
C9	47.00	235.72	34.56	55.68	287°21'04"



- NOTES:**
1. PROVIDE FILTER FABRIC "AMOCO" 4545 OR EQUAL BETWEEN THE NATIVE SOIL AND THE WASHED DRAIN ROCK.
  2. IF TWO OR MORE CURB INLETS ARE USED, SET SWALE BOTTOM WITH RESPECT TO THE LOWEST CURB INLET GUTTER FLOWLINE ELEVATION
  3. WARNING - THE USE OF SILTY LOAM IS PROHIBITED AS SWALE BOTTOM MATERIAL.
  4. IRRIGATION IS REQUIRED FOR SOD INSTALLATION.
  5. ALL SWALES MUST BE HYDROSEEDING WITH DRYLAND GRASS MIXTURE. ALL DRYWELLS MUST BE PROTECTED WITH FILTER FABRIC UNTIL DRYLAND GRASS IS ESTABLISHED.

**TYPE "R" CURB-TYPE "1" INLET-208 SWALE WITH DRYWELL**

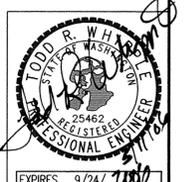
NOT TO SCALE



**DRIVEWAY DETAIL**

NOT TO SCALE

SPOKANE COUNTY PUBLIC WORKS  
OFFICIAL PUBLIC DOCUMENT ORIGINAL  
**CONSTRUCTION PLANS**  
PROJECT #: 2005-124  
DATE ACCEPTED: 5/11/06  
ACCEPTANCE EXPIRES: 5/11/08  
PROJECTS LANE MILES: PUBLIC: 0.00  
PROJECT LANE MILES PRIVATE: 0.00  
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) 477-3600  
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION



N.A.V.D. 88 DATUM  
SPOKANE COUNTY MONUMENT AT THE SOUTHEAST ONE QUARTER CORNER OF SECTION 11, TOWNSHIP 27 NORTH, RANGE 43 EAST, W.M. ELEVATION=1850.04

*Harley C. Douglas*  
DEVELOPER'S APPROVAL  
5.11.06  
DATE

NO.	DATE	BY	REVISIONS
5	05/10	RLM	SUBMITTAL FOR APPROVAL
4	04/18	RLM	3RD. SUBMITTAL TO SPOKANE COUNTY ENGINEERS
3	03/15	RLM	2ND. SUBMITTAL TO SPOKANE COUNTY ENGINEERS
2	03/03	RLM	1ST. SUBMITTAL TO SPOKANE COUNTY ENGINEERS
1	12/27	RLM	ORIGINAL PLAN PREPARATION

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

**PROJ #:** 2005-124  
**DATE:** 12/27/05  
**DRAWN:** RLM  
**APPROVED:** TRW



**STREET AND DRAINAGE PLANS**  
**WOOLARD RANCH**  
HORSEMAN LANE, STA. 10+00 TO STA. 15+87.49  
SPOKANE COUNTY, WASHINGTON

**SHEET**  
4 OF 7  
JOB NUMBER  
2005-124

P.1961 Eng Road & Drains

**UNDERGROUND SERVICE ALERT**  
**ONE-CALL NUMBER**  
**456-8000**  
 CALL TWO BUSINESS DAYS BEFORE YOU DIG

**SWALE "A"**  
 FINISHED GRADE SWALE BOTTOM VARIES  
 SWALE BOTTOM AREA PROVIDED=583 S.F.  
 MINIMUM BERM ELEV.=1855.71

POINT	STATION	OFFSET	DISTANCE	RADIUS
A	10+45.55	21.22' LT.	6.00'	
B	10+45.55	27.25' LT.	3.61'	18.00'
C	10+50.48	27.00' LT.	55.14'	73.00'
D	11+26.02	27.00' LT.	36.80'	127.00'
E	11+55.00	27.00' LT.	6.00'	
F	11+55.00	21.00' LT.	35.07'	121.00'
G	11+26.02	21.00' LT.	59.67'	79.00'
H	10+50.48	21.00' LT.	3.90'	24.00'
A	10+45.55	21.22' LT.		

**SWALE "B"**  
 FINISHED GRADE SWALE BOTTOM VARIES  
 SWALE BOTTOM AREA PROVIDED=142 S.F.  
 MINIMUM BERM ELEV.=1856.08

POINT	STATION	OFFSET	DISTANCE
A	12+12.18	21.00' LT.	8.00'
B	12+12.31	29.00' LT.	18.00'
C	12+29.27	28.81' LT.	18.00'
D	12+29.25	21.00' LT.	8.00'
A	12+12.18	21.00' LT.	

**SWALE "C"**  
 FINISHED GRADE SWALE BOTTOM VARIES  
 SWALE BOTTOM AREA PROVIDED=904 S.F.  
 MINIMUM BERM ELEV.=1855.22

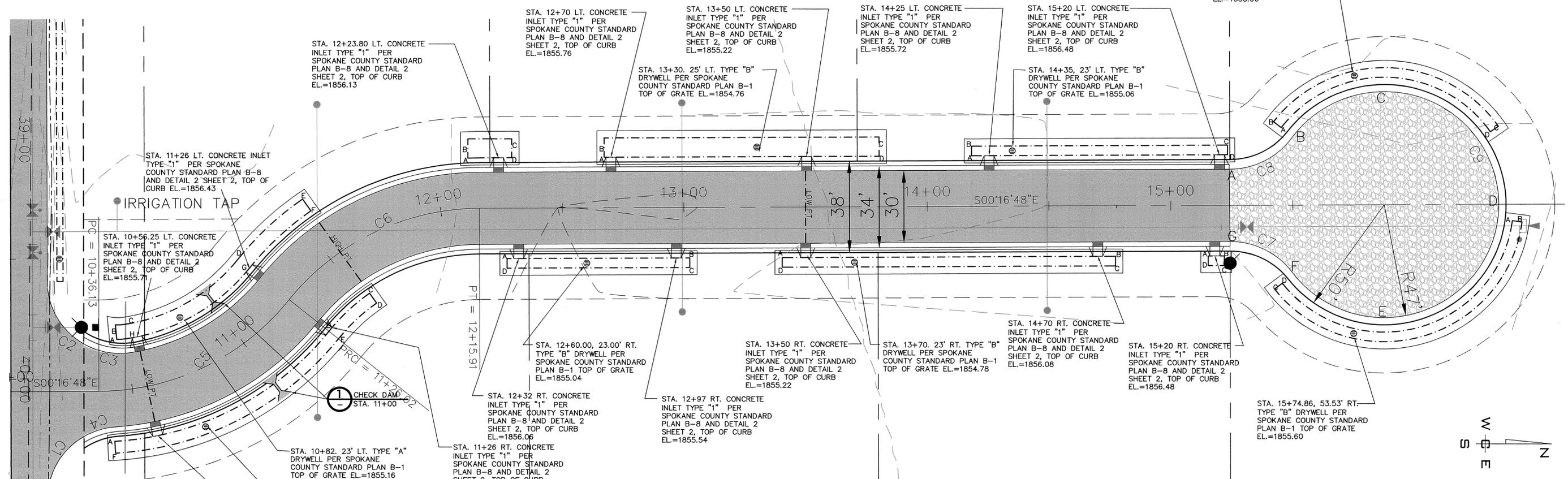
POINT	STATION	OFFSET	DISTANCE
A	12+67.25	21.00' LT.	8.00'
B	12+67.25	29.00' LT.	113.00'
C	13+80.25	29.00' LT.	8.00'
D	13+80.25	21.00' LT.	113.00'
A	12+67.25	21.00' LT.	

**SWALE "D"**  
 FINISHED GRADE SWALE BOTTOM VARIES  
 SWALE BOTTOM AREA PROVIDED=417 S.F.  
 MINIMUM BERM ELEV.=1855.72

POINT	STATION	OFFSET	DISTANCE
A	14+18.25	21.00'	4.00'
B	14+18.25	25.00'	105.04'
C	15+23.29	25.00'	4.00'
D	15+23.29	21.00'	105.04'
A	14+18.25	21.00'	

**SWALE "E"**  
 FINISHED GRADE SWALE BOTTOM EL.=1855.73  
 SWALE BOTTOM AREA PROVIDED=415 S.F.  
 MINIMUM BERM ELEV.=1856.73

POINT	STATION	OFFSET	DISTANCE	RADIUS
A	15+45.38	32.19' LT.	4.00'	
B	15+42.21	33.41' LT.	108.38'	57.00'
C	16+34.41	30.10' LT.	4.00'	
D	16+31.12	36.10' LT.	99.90'	53.00'
A	15+45.38	32.19' LT.		



**SWALE "J"**  
 FINISHED GRADE SWALE BOTTOM VARIES  
 SWALE BOTTOM AREA PROVIDED=505 S.F.  
 MINIMUM BERM ELEV.=1855.71

POINT	STATION	OFFSET	DISTANCE	RADIUS
A	10+41.56	21.00' RT.	102.20'	121.00'
B	11+26.02	21.00' RT.	22.89'	79.00'
C	11+55.00	21.00' RT.	5.00'	
D	11+55.00	26.00' RT.	21.00'	75.00'
E	11+26.02	26.00' RT.	106.42'	125.00'
F	10+41.56	26.00' RT.	5.00'	
A	10+41.56	21.00' RT.		

**SWALE "I"**  
 FINISHED GRADE SWALE BOTTOM VARIES  
 SWALE BOTTOM AREA PROVIDED=300 S.F.  
 MINIMUM BERM ELEV.=1856.06

POINT	STATION	OFFSET	DISTANCE
A	12+27.25	21.00' RT.	75.09'
B	13+02.34	21.00' RT.	4.00'
C	13+02.34	25.00' RT.	75.09'
D	12+27.25	25.00' RT.	4.00'
A	12+27.25	21.00' RT.	

**SWALE "H"**  
 FINISHED GRADE SWALE BOTTOM VARIES  
 SWALE BOTTOM AREA PROVIDED=548 S.F.  
 MINIMUM BERM ELEV.=1855.22

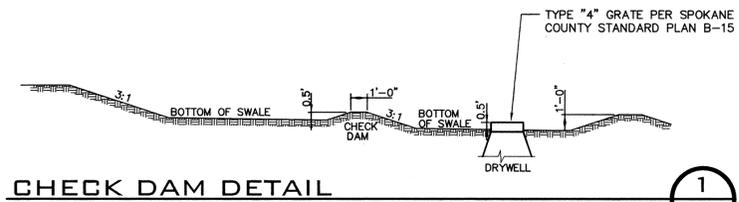
POINT	STATION	OFFSET	DISTANCE
A	13+40.34	21.00' RT.	136.91'
B	14+77.25	21.00' RT.	4.00'
C	14+77.25	25.00' RT.	136.91'
D	13+40.34	25.00' RT.	4.00'
A	13+40.34	21.00' RT.	

**SWALE "G"**  
 FINISHED GRADE SWALE BOTTOM VARIES  
 SWALE BOTTOM AREA PROVIDED=26.52 S.F.  
 MINIMUM BERM ELEV.=1856.48

POINT	STATION	OFFSET	DISTANCE
A	15+15.25	21.00' RT.	6.63'
B	15+21.88	21.00' RT.	4.00'
C	15+21.88	25.00' RT.	6.63'
D	15+15.25	25.00' RT.	4.00'
A	15+15.25	21.00' RT.	

**SWALE "F"**  
 FINISHED GRADE SWALE BOTTOM EL.=1855.73  
 SWALE BOTTOM AREA PROVIDED=517 S.F.  
 MINIMUM BERM ELEV.=1856.73

POINT	STATION	OFFSET	DISTANCE	RADIUS
A	16+40.05	6.84' RT.	4.00'	
B	18+44.01	7.35' RT.	134.11'	57.00'
C	15+42.43	34.92' RT.	4.00'	
D	15+45.64	32.52' RT.	124.63'	53.00'
A	16+40.05	6.84' RT.		



**CHECK DAM DETAIL**  
 NOT TO SCALE  
 N.A.V.D. 88 DATUM  
 SPOKANE COUNTY MONUMENT AT THE SOUTHEAST ONE QUARTER CORNER OF SECTION 11, TOWNSHIP 27 NORTH, RANGE 43 EAST, W.M. ELEVATION=1850.04  
 Developer's Approval: *Aarley C. Douglas*  
 DATE: 5-11-06

NO.	DATE	BY	REVISIONS
5	05/10	RLM	SUBMITTAL FOR APPROVAL
4	04/18	RLM	3RD. SUBMITTAL TO SPOKANE COUNTY ENGINEERS
3	03/15	RLM	2ND. SUBMITTAL TO SPOKANE COUNTY ENGINEERS
2	03/03	RLM	1ST. SUBMITTAL TO SPOKANE COUNTY ENGINEERS
1	12/28	RLM	ORIGINAL PLAN PREPARATION

**SCALE:**  
 HORIZONTAL: AS SHOWN  
 VERTICAL: AS SHOWN  
**PROJ #:** 2005-124  
**DATE:** 12/28/05  
**DRAWN:** TRW  
**APPROVED:** TRW

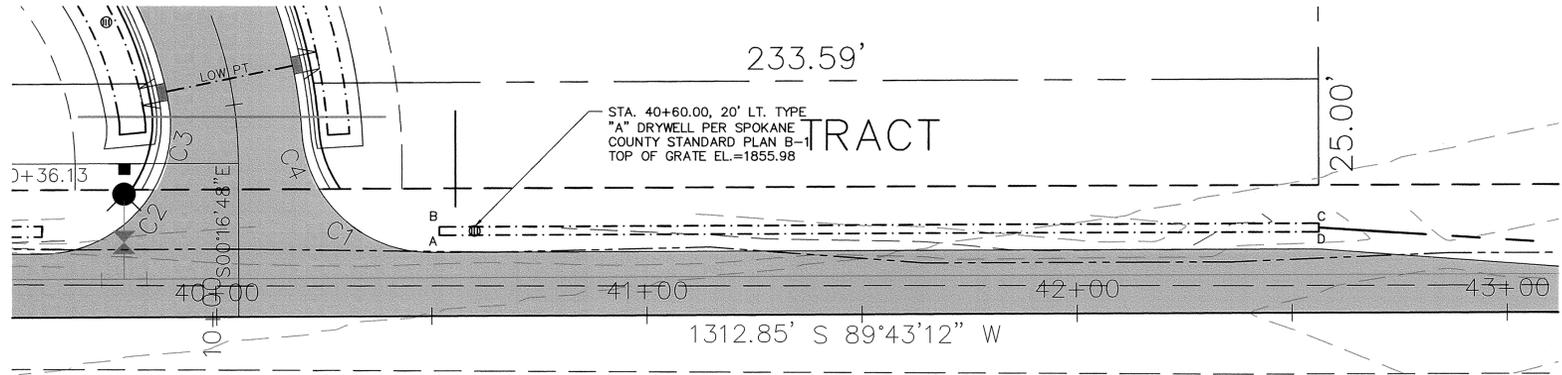


**STREET AND DRAINAGE PLANS**  
**WOOLARD RANCH**  
**HORSEMAN LANE SWALE DETAILS**  
**SPOKANE COUNTY, WASHINGTON**  
**SHEET 5 OF 7**  
 JOB NUMBER: 2005-124  
 EXPIRES: 9/24/10

SPOKANE COUNTY PUBLIC WORKS  
 OFFICIAL PUBLIC DOCUMENT ORIGINAL  
**CONSTRUCTION PLANS**  
 PROJECT #: P-196  
 DATE ACCEPTED: 5/11/06  
 ACCEPTANCE EXPIRES: 5/11/08  
 PROJECTS LANE MILES: PUBLIC: 0.00  
 PROJECT LANE MILES PRIVATE: 0.70  
 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) 477-3600  
 NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION



P-1961  
 Eng Road + Drainage

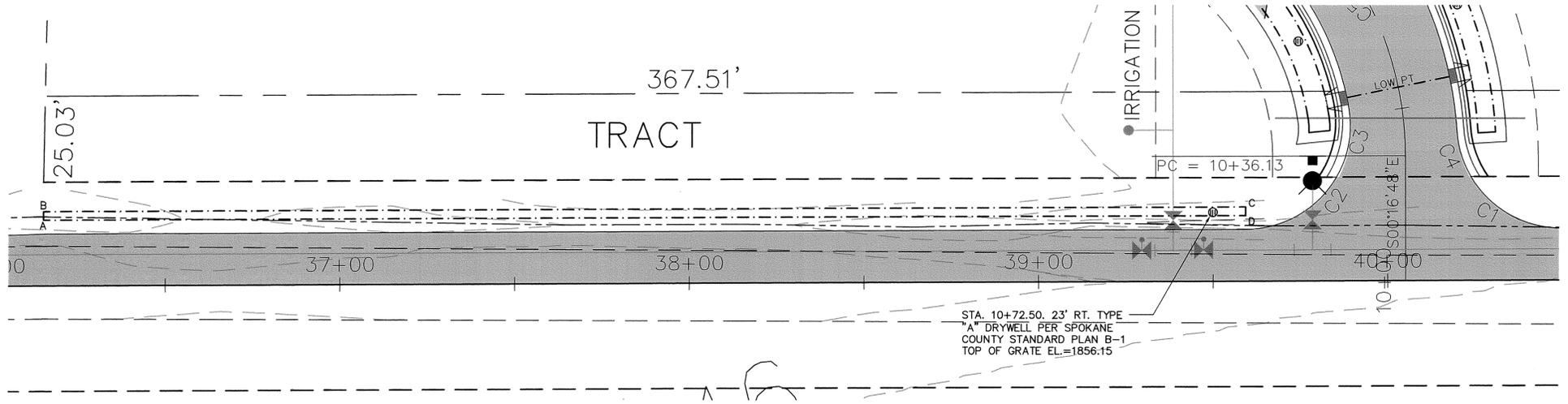


**SWALE "K"**  
 FINISHED GRADE SWALE BOTTOM EL.=1855.98  
 SWALE BOTTOM AREA PROVIDED=409 S.F.  
 MINIMUM BERM ELEV.=1855.68

**SWALE BOTTOM LOCATION TABLE**  
 STATION & OFFSET

A	40+51.81	20.00' LT.	2.00'
B	40+51.81	22.00' LT.	204.42'
C	42+56.23	22.00' LT.	2.00'
D	42+56.23	20.00' LT.	204.42'
A	11+26.02	20.00' LT.	

**WOOLARD ROAD SWALE "K"**  
 SCALE: 1" = 20'



**SWALE "L"**  
 FINISHED GRADE SWALE BOTTOM EL.=1855.65  
 SWALE BOTTOM AREA PROVIDED= 688 S.F.  
 MINIMUM BERM ELEV.=1855.86

**SWALE BOTTOM LOCATION TABLE**  
 STATION & OFFSET

A	36+15.21	20.00' LT.	2.00'
B	36+15.21	22.00' LT.	344.18'
C	39+50.20	22.00' LT.	2.00'
D	39+50.20	20.00' LT.	344.18'
A	36+15.21	20.00' LT.	

**WOOLARD ROAD SWALE "L"**  
 SCALE: 1" = 20'

N.A.V.D. 88 DATUM  
 SPOKANE COUNTY MONUMENT AT THE SOUTHEAST ONE QUARTER CORNER OF SECTION 11, TOWNSHIP 27 NORTH, RANGE 43 EAST, W.M. ELEVATION=1850.04

*Hailey C. Douglas*  
 DEVELOPER'S APPROVAL

5-11-05  
 DATE

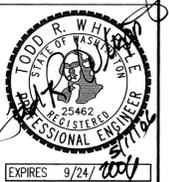
NO.	DATE	BY	REVISIONS
5	05/10	RLM	SUBMITTAL FOR APPROVAL
4	04/18	RLM	3RD. SUBMITTAL TO SPOKANE COUNTY ENGINEERS
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2	03/03	RLM	1ST. SUBMITTAL TO SPOKANE COUNTY ENGINEERS
1	12/28	RLM	ORIGINAL PLAN PREPARATION

**SCALE:**  
 HORIZONTAL: AS SHOWN  
 VERTICAL: AS SHOWN

PROJ #: 2005-124  
 DATE: 12/28/05  
 DRAWN: TRW  
 APPROVED: TRW



**STREET AND DRAINAGE PLANS**  
**WOOLARD RANCH**  
**WOOLARD ROAD SWALE DETAILS**  
**SPOKANE COUNTY, WASHINGTON**



**SHEET**  
**6 OF 7**  
 JOB NUMBER  
**2005-124**

P-1961 Eng. Road & Drainage

**GENERAL NOTES**

- ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED SITE WORK STANDARDS AND THE STANDARDS AND SPECIFICATIONS SET FORTH IN SPOKANE COUNTY REGULATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN PUBLIC R.O.W. OR EASEMENTS SHALL BE INSPECTED AND APPROVED BY THE SPOKANE COUNTY INSPECTOR. INSPECTION SERVICES AND CONSTRUCTION CERTIFICATION TO BE PROVIDED BY DESIGNER OF PROJECT SPONSOR/OWNER.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT THE CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE SPOKANE COUNTY INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.
- THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH SPOKANE COUNTY AND ALL UTILITY COMPANIES WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.
- THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB ON-SITE AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
- IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES, WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
- ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
- FOR WORK AFFECTING PUBLIC ROADWAYS OR IF REQUIRED BY SPOKANE COUNTY THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL AND PHASING PLAN, IN ACCORDANCE WITH M.U.T.C.D., FOR APPROVAL PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN OR AFFECTING THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY SAID PLANS. PRIOR TO INSTALLATION AND PRECONSTRUCTION CONFERENCE SHALL BE HELD WITH SPOKANE COUNTY.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED, CONSTRUCTED, REMOVED OR RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE.
- PER AGENCY STANDARDS THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING RECORD INFORMATION ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE AND AVAILABLE TO SPOKANE COUNTY INSPECTOR AT ALL TIMES.
- DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. FOR ADDITIONAL INFORMATION CONTACT THE ENGINEER FOR CLARIFICATION AND NOTE ON THE RECORD DRAWINGS.
- ALL EROSION AND SEDIMENT CONTROL (E.S.C.) MEASURES SHALL BE INSTALLED AT THE LIMITS OF CONSTRUCTION PRIOR TO GROUND-DISTURBING ACTIVITY. ALL E.S.C. MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.
- THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF WATER LINES AND DRY UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL UTILITY RELOCATIONS CONSISTENT WITH THE CONTRACTOR'S SCHEDULE FOR THIS PROJECT, WHETHER SHOWN OR NOT SHOWN, AS IT RELATES TO THE CONSTRUCTION ACTIVITIES CONTEMPLATED IN THESE PLANS.
- ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF THE SPOKANE COUNTY ENGINEERING DEPARTMENT STANDARD DETAILS AND SPECIFICATIONS.
- ALL CONSTRUCTION OPERATIONS, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTH MOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED EQUIPMENT SHALL GENERALLY BE LIMITED TO THE TIME PERIOD APPROVED BY SPOKANE COUNTY.
- BASED ON A REQUIREMENT FROM SPOKANE COUNTY THE ENGINEER OR HIS DESIGNEE SHALL PERFORM MATERIALS TESTING AND QUALITY CONTROL ON THE PROJECT AND SHALL SUBMIT COPIES OF DAILY REPORTS, TEST REPORTS, PROJECT CERTIFICATION AND RECORD DRAWINGS TO THE SPOKANE COUNTY ENGINEER.
- NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL BY THE SPOKANE COUNTY ENGINEER AND NOTIFICATION OF THE ENGINEER OF RECORD.

**ROADWAYS**  
SPOKANE COUNTY ENGINEERING  
1026 WEST BROADWAY AVENUE  
SPOKANE, WASHINGTON 99260  
PHONE: 509-477-3600  
FAX: 509-477-7655  
CONTACT: MATT ZARECOR, P.E.

**FIRE DEPARTMENT**  
FIRE DISTRICT NO. 4  
3219 E. CHATTAROY ROAD  
CHATTAROY, WA 99003  
PHONE: 509-467-4500  
FAX: 509-467-6032  
CONTACT: JOE KRIZANIC

**WATER PURVEYOR**  
WHITWORTH WATER DISTRICT NO. 2  
NORTH 10828 WAIKIKI  
SPOKANE, WASHINGTON 99248  
PHONE: 509-466-0550  
FAX: 509-467-1830  
CONTACT: DOUG BABIN

**SEWER**  
SPOKANE COUNTY UTILITIES  
1026 WEST BROADWAY AVENUE  
SPOKANE, WASHINGTON 99260  
PHONE: 509-477-3604  
FAX: 509-477-4715  
CONTACT: BILLY URHAUSEN

**BUILDING OFFICIAL**  
SPOKANE COUNTY BUILDING  
AND PLANNING  
1026 WEST BROADWAY AVENUE  
SPOKANE, WASHINGTON 99260  
PHONE: 509-477-7200  
CONTACT: KATHY SANDERS

**TELEPHONE**  
QWEST  
904 NORTH COLUMBUS  
SPOKANE, WASHINGTON 99202  
PHONE: 509-455-2580  
FAX: 509-455-2104  
CONTACT: DAVE CLARK

**CABLE**  
COMCAST BROADBAND  
1717 EAST BUCKEYE  
SPOKANE, WASHINGTON, 99207  
PHONE: 509-484-4931  
EXTENSION: 53254  
CONTACT: JOEL BORST

**SURVEYOR**  
ROBERT ADAMS, P.L.S.  
3914 E. CONGRESS AVENUE  
SPOKANE, WASHINGTON 99223  
PHONE: 509-534-2230  
CELL: 509-879-3329  
CONTACT: ROBERT ADAMS, P.L.S.

**NATURAL GAS**  
AVISTA UTILITIES  
1411 EAST MISSION AVENUE  
SPOKANE, WA 99220  
PHONE: 509-495-4744  
FAX: 509-495-8713  
CONTACT: LOIS MCCAIN

**POWER**  
INLAND POWER AND LIGHT  
320 EAST SECOND AVENUE  
SPOKANE, WASHINGTON 99202  
PHONE: 509-747-7151  
FAX: 509-747-7987  
CONTACT: MARY SHELLEY

**SOLID WASTE**  
WASTE MANAGEMENT  
12122 EAST FIRST AVENUE  
SPOKANE VALLEY, WA 66206  
PHONE: 509-466-3400

**INSPECTION**  
ALLWEST  
1010 N. LAKE ROAD  
SPOKANE, WASHINGTON 99212  
PHONE: 509-534-4411  
FAX: 509-534-9326  
CONTACT: PAUL T. NELSON, P.E.

**OWNER**  
DOUGLAS PARCEL, LLC  
P.O. BOX 234  
COLBERT, WASHINGTON 99217  
PHONE: 509-487-9792  
FAX: 509-487-1580

**ENGINEER**  
WHIPPLE CONSULTING ENGINEERS  
13218 EAST SPRAGUE AVENUE  
SPOKANE VALLEY, WA 99216  
PHONE: 509-893-2617  
FAX: 509-926-0227  
CONTACT: TODD WHIPPLE, P.E.

# EROSION CONTROL PLAN

## WOOLARD RANCH

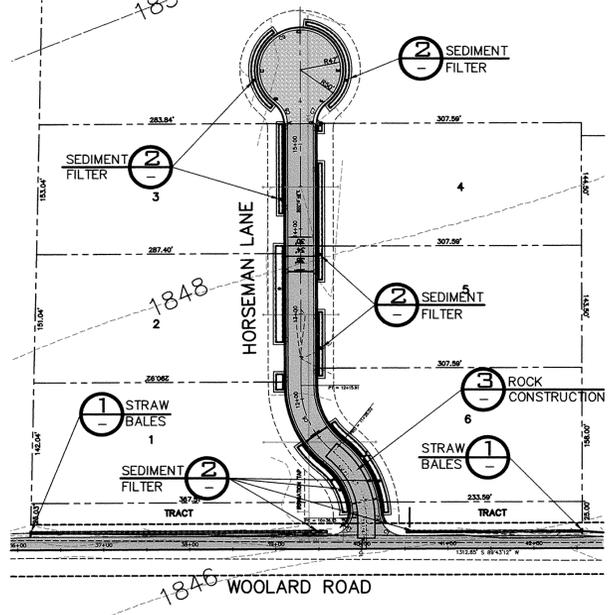
### SPOKANE COUNTY, WASHINGTON

#### SE. 1/4 OF SECT. 11, T. 27 N., R. 43 E., W.M.

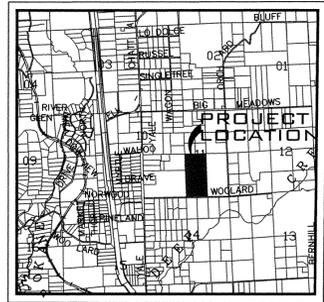
**UNDERGROUND SERVICE ALERT**  
ONE-CALL NUMBER  
**456-8000**  
CALL TWO BUSINESS DAYS  
BEFORE YOU DIG

**EROSION & SEDIMENT CONTROL**  
**GENERAL NOTES AND INFORMATION**

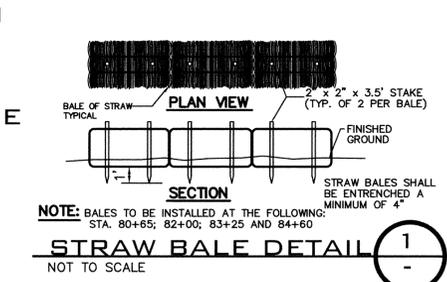
- AN EROSION/SEDIMENT CONTROL (E.S.C.) PLAN IS REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE E.S.C. PLAN, AND CONSTRUCTION, MAINTENANCE, AND UPGRADING OF THE E.S.C. FACILITIES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY SPOKANE COUNTY, OR UNTIL VEGETATION IS ESTABLISHED THROUGHOUT THE SITE, AND ACCEPTED BY SPOKANE COUNTY, WHICHEVER IS LATER.
- APPROVAL OF THE E.S.C. PLAN DOES NOT CONSTITUTE APPROVAL OF ANY OF THE PROPOSED ROAD, STORM DRAINAGE, GRADING OR UTILITY DESIGN ELEMENTS SHOWN ON THEN E.S.C. PLAN.
- THE EROSION/SEDIMENT CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. THE CONTRACTOR SHALL INSPECT AND MAINTAIN THESE E.S.C. MEASURES DAILY, AND SHALL MAINTAIN AND UPGRADE THESE MEASURES AS NECESSARY TO PREVENT SEDIMENT-LADEN WATER FROM EITHER FLOWING OFF SITE, OR INTO NEW/EXISTING STORM DRAINAGE FACILITIES, SUCH AS DRYWELLS, CULVERTS, OR GRAVEL GALLERIES.
- GEOTEXTILE FABRIC IS TO BE PLACED ON THE RIMS, CATCH BASINS AND INLETS UNTIL SUCH TIME THAT THE VEGETATION ON THE SITE IS ESTABLISHED AND THE THREAT OF SEDIMENT DEPOSITION INTO THE DRAINAGE SYSTEM IS MITIGATED.
- THE SILT FENCES SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO OTHER SITE WORK, AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ROCK CONSTRUCTION ENTRIES AT ANY AND ALL LOCATIONS USED TO ENTER OR EXIT THE PROJECT SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR DESIGNATING A LOCATION WHERE CONCRETE TRUCKS AND EQUIPMENT CAN BE WASHED OUT, NOT LOCATED NEAR OR DRAINING INTO A STORM DRAINAGE AREA.
- PROPERTY OWNER: DOUGLAS PARCEL, LLC, P.O. BOX 234, COLBERT, WA 99005  
CONTACT PERSON ON SITE: BOB GRAHAM AT ALLWEST, 509-534-4411.
- PROJECT LOCATION: IN SPOKANE COUNTY, EAST OF YALE ROAD ON WOOLADR ROAD.  
SE. 1/4 S. 11, TOWNSHIP 27 NORTH, RANGE 43 EAST, W.M.
- PROJECT DESCRIPTION: WOOLARD RANCH IS A CLUSTER BASES RESIDENTIAL SUBDIVISION CONSISTING OF 6 LOTS AND WILL REQUIRE CONSTRUCTION OF ROADS, AND STORM DRAINAGE. THE IMPROVEMENTS CONSIST OF APPROXIMATELY 600 LINEAR FEET OF DRAINAGE AND ELECTRICAL FACILITIES. 800 LINEAR FEET OF NEW ASPHALT ROADWAY, AND ASSOCIATED STORM DRAINAGE.
- DESCRIPTION OF E.S.C. MEASURES: USE OF SILT FENCES AND ROCK CONSTRUCTION ENTRIES. ALL E.S.C. MEASURES MENTIONED ABOVE ARE TEMPORARY AND WILL BE REMOVED AFTER YARDS ARE LANDSCAPED.
- EXISTING VEGETATION: LONG GRASS, SCRUB BRUSH AND PINE TREES
- PLAN PREPARATION DATE: MARCH, 2006
- SOILS: ON SITE SOILS, MARBLE SANDY LOAM (McB)
- STABILIZATION OF DENUDED AREAS:**  
ANY DISTURBED AREAS, WHICH WOULD BE LEFT BARE FOR MORE THAN 7 DAYS AND ARE NOT INTENDED TO BE REWORKED WITHIN 30-45 DAYS SHALL BE SEED WITH A FAST STARTING NATIVE DRYLAND GRASS SUCH AS ANNUAL RYE, OR APPROVED EQUAL, AT A RATE OF 60 lbs/ACRE.
- CONTROL OF POLLUTANTS:**  
ANY SPILLS WILL BE HANDLED ACCORDING TO D.O.E. AND D.O.H. GUIDELINES.
- LIMITS OF GRADING:**  
DURING THE COURSE OF CONSTRUCTION, THE AMOUNT OF DISTURBED AREA SHALL BE KEPT TO A MINIMUM AND SHALL BE LIMITED TO THE AREA SHOWN AS "LIMITS OF GRADING" ON THIS SHEET OF THE EROSION CONTROL PLANS.



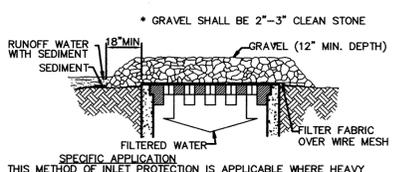
**SITE PLAN**  
SCALE: 1" = 100'



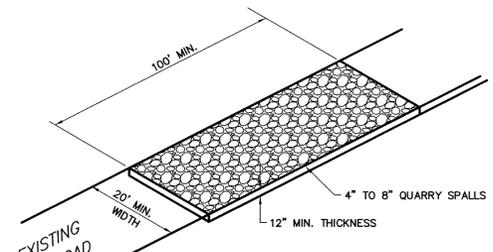
**VICINITY MAP**



**STRAW BALE DETAIL**  
NOT TO SCALE



**GRAVEL AND WIRE MESH INLET SEDIMENT FILTER**  
NOT TO SCALE



**ROCK CONSTRUCTION ENTRY**  
NOT TO SCALE

**LEGEND**

- SEDIMENT FILTER
- STORM DRAINAGE STRUCTURE - NO CONCRETE TRUCK WASHOUT. SEE GENERAL NOTES 4 AND 7.
- ROCK CONSTRUCTION ENTRY. SEE DETAIL 3 AND GENERAL NOTE 6.

**LEGAL DESCRIPTION**

THE WEST HALF OF THE SOUTHEAST QUARTER OF SECTION 11, TOWNSHIP 27 NORTH, RANGE 43 EAST, OF THE WILLAMETTE MERIDIAN; EXCEPT WOOLARD COUNTY ROAD; SITUATE IN THE COUNTY OF SPOKANE, STATE OF WASHINGTON.

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

CERTIFICATION STATEMENT: I CERTIFY THAT THIS EROSION AND SEDIMENT CONTROL PLAN MEETS THE E.S.C. REQUIREMENTS AS LISTED IN CHAPTER 4.5 OF SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT.  
*Todd R. Whipple* 3/11/06  
ENGINEER TODD R. WHIPPLE, P.E.

SPOKANE COUNTY PUBLIC WORKS  
OFFICIAL PUBLIC DOCUMENT ORIGINAL  
**CONSTRUCTION PLANS**  
PROJECT # 2196  
DATE ACCEPTED: 3/11/06  
ACCEPTANCE EXPIRES: 3/11/08  
PROJECTS LANE MILES: PUBLIC: 0.00  
PROJECT LANE MILES PRIVATE: 0.70  
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) 477-3600  
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION



• N.A.V.D. 88 DATUM  
SPOKANE COUNTY MONUMENT AT THE SOUTHEAST ONE QUARTER CORNER OF SECTION 11, TOWNSHIP 27 NORTH, RANGE 43 EAST, W.M. ELEVATION=1850.04

*Haley C. Douglas* 5-11-06  
DEVELOPER'S APPROVAL DATE

NO.	DATE	BY	REVISIONS
5	05/10	RLM	SUBMITTAL FOR APPROVAL
4	04/18	RLM	3RD. SUBMITTAL TO SPOKANE COUNTY ENGINEERS
3	03/15	RLM	2ND. SUBMITTAL TO SPOKANE COUNTY ENGINEERS
2	03/03	RLM	1ST. SUBMITTAL TO SPOKANE COUNTY ENGINEERS
1	12/28	RLM	ORIGINAL PLAN PREPARATION

**SCALE:**  
HORIZONTAL: AS SHOWN  
VERTICAL: AS SHOWN

PROJ #: 2005-124  
DATE: 12/28/05  
DRAWN: RLM  
APPROVED: TRW



**STREET AND DRAINAGE PLANS**  
**WOOLARD RANCH**  
**EROSION CONTROL PLAN**  
**SPOKANE COUNTY, WASHINGTON**

**SHEET**  
**7 OF 7**  
JOB NUMBER  
**2005-124**

*p-1961 Eng. Land Drainage*