

FRIESEN ADDITION

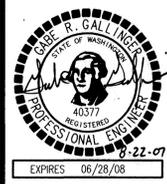
SPOKANE COUNTY, WASHINGTON

SECTION 20, T. 25N., R. 45E., W.M.



FRIESEN ADDITION

COVER SHEET



SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ROADS & ENGINEERING
W. 1036 BROADWAY AVE.
SPOKANE, WA 99260
PHONE #: 477-3604

| | | | |
|----------|-----|---------|---|
| REVISION | BY | DATE | DESCRIPTION |
| 1 | KWE | 8-16-07 | ORIGINAL SUBMITTAL |
| 2 | KWE | 8-22-07 | REVISED PER SPOKANE COUNTY COMMENTS DATED 8-21-07 |

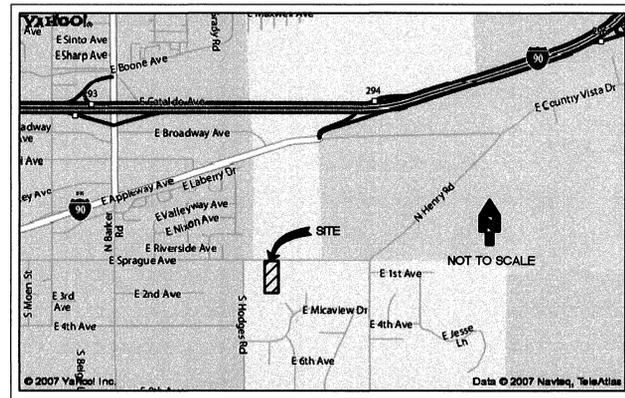
SCALE
HOR. NTS
VERT. NTS

PROJECT #: 07-009
DESIGNED BY: KWE
CHECKED BY: GRG

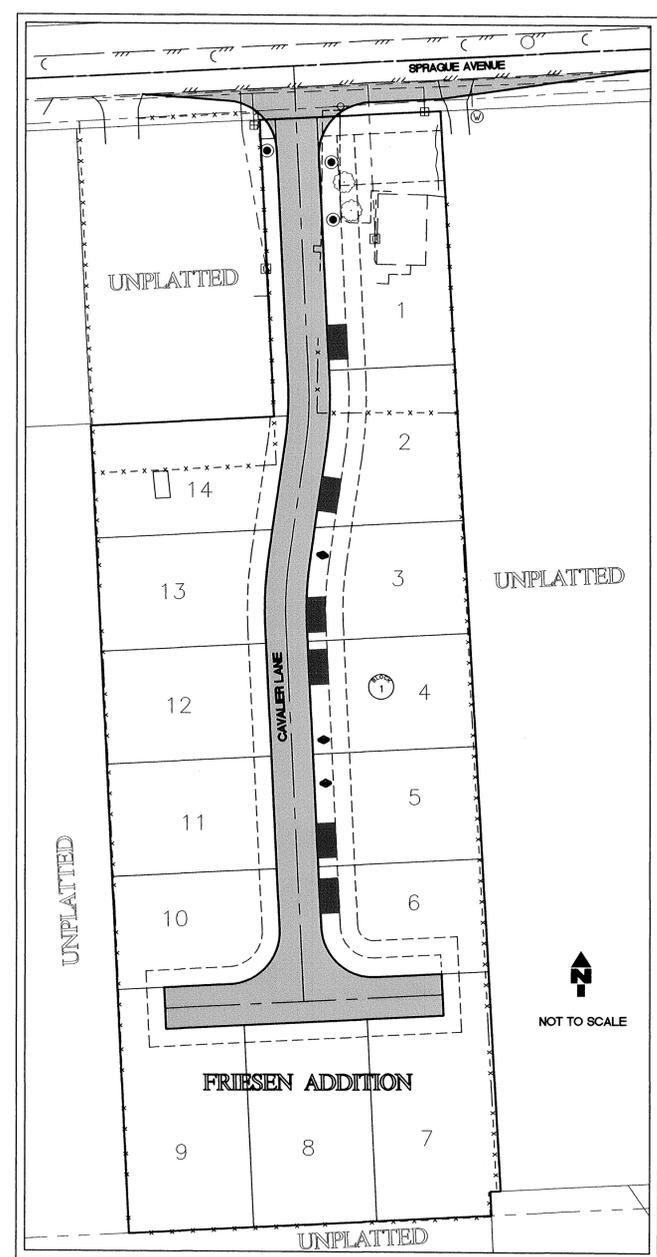
COVER
1 OF 4

INDEX OF DRAWINGS

| SHEET NO. | DESCRIPTION |
|-----------|---|
| 1 | COVER SHEET |
| 2 | CAVALIER LANE STA. 10+00 TO STA. 15+39.50 |
| 3 | ROAD SECTIONS AND POND DETAILS |
| 4 | TEMPORARY EROSION AND SEDIMENT CONTROL PLAN |



LOCATION PLAN



SITE PLAN

LEGEND

| | |
|--|------------------------------------|
| | EXISTING CONTOUR |
| | EASEMENT LINE |
| | EXISTING BURIED TELEPHONE |
| | EXISTING BURIED GAS PIPELINE |
| | EXISTING OVERHEAD ELECTRICAL |
| | EXISTING FENCE |
| | EXISTING WATER LINE |
| | EXISTING SEWER LINE |
| | EXISTING STORM DRAIN LINE |
| | EXISTING WATER VALVE |
| | EXISTING WATER LINE FITTING (TYP.) |
| | EXISTING FIRE HYDRANT |
| | EXISTING WATER METER AND SERVICE |
| | EXISTING SIGN |
| | EXISTING SANITARY SEWER MANHOLE |
| | PLAT BOUNDARY |
| | LOT LINE |
| | NEW WATER LINE |
| | NEW SANITARY SEWER LINE |
| | NEW STORM DRAIN LINE |
| | NEW DITCH LINE |
| | NEW ASPHALT PAVEMENT REPLACEMENT |
| | NEW WATER VALVE |
| | NEW CONCRETE THRUST BLOCK |
| | NEW WATER LINE FITTING (TYP.) |
| | NEW SANITARY SEWER MANHOLE |
| | NEW STORM DRAIN MANHOLE |
| | NEW STORM DRAIN CATCH BASIN |
| | NEW SIGN |

GENERAL NOTES:

- ALL MATERIALS AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION 2001", AS AMENDED, AND PER THE "2006 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION" AS PUBLISHED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (W.S.D.O.T.) AND BY THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA).
- LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLAN 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. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR RELOCATION OF POWER POLES, LIGHTS, TELEPHONE, AND/OR OTHER UTILITIES THAT MAY CONFLICT WITH THE CONSTRUCTION.
- 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. CONTRACTOR SHALL ALSO MAINTAIN ON THE SITE A COMPLETE SET OF RED LINE RECORD DRAWINGS INDICATING ALL CHANGES FROM THE APPROVED DRAWINGS.
- CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. 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.
- CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO ADJACENT EXISTING PROPERTIES OR IMPROVEMENTS. CONTRACTOR IS RESPONSIBLE FOR CLEAN-UP OF ANY AREAS DISTURBED BY HIS ACTIVITIES.
- ALL PROPOSED ROADWAY AREAS SHALL BE STRIPPED TO A DEPTH OF AT LEAST 12" OF ALL VEGETATION, NEAR-SURFACE ROOTS, ANY EXISTING FILL, AND TOPSOIL. THE STRIPPED MATERIAL CAN BE RE-USED FOR LANDSCAPING, BUT IS NOT ACCEPTABLE FOR STRUCTURAL FILL.
- NATIVE MATERIALS, EXCLUDING TOPSOIL, IS ACCEPTABLE FOR USE AS STRUCTURAL FILL. IF STRUCTURAL FILL IS IMPORTED IT SHALL CONSIST OF WELL-GRADED SAND AND GRAVEL WITH NO PARTICLES LARGER THAN FIVE INCHES IN DIAMETER AND NOT MORE THAN 30% BY WEIGHT PASSING THE #200 SIEVE. STRUCTURAL FILL SHALL BE PLACED IN MAX. 6 INCH LIFTS WITHIN 2% OF OPTIMUM MOISTURE AND COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR.
- THE TOP 12 INCHES OF THE ROAD SUBGRADE SHALL BE MOISTURE CONDITIONED TO WITHIN 2% OF OPTIMUM AND COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR METHOD.
- CRUSHED SURFACING TOP COURSE SHALL CONFORM TO WSDOT STANDARDS AND COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY.
- ASPHALT CONCRETE SHALL BE WSDOT CLASS B AND COMPACTED TO 92% OF THE THEORETICAL MAXIMUM DENSITY AS DETERMINED BY THE RICE METHOD.
- DURING CONSTRUCTION, THE GROUND SURFACE SHOULD BE SLOPED TO PREVENT STORM RUNOFF FROM ACCUMULATING IN ANY OF THE SUBGRADE AREAS. ANY AREAS OF SOFTENED SUBGRADE SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL.
- SITE EXCAVATION, INCLUDING ROCK CUTS AND REMOVAL, SHALL CONFORM TO SECTION 2-03 OF THE WSDOT STANDARD SPECIFICATIONS. EMBANKMENTS TO BE CONSTRUCTED ACCORDING TO THE APPLICABLE PARAGRAPHS OF SECTION 2-03 OF THE WSDOT STANDARD SPECIFICATIONS. EARTH EMBANKMENTS TO BE CONSTRUCTED USING METHOD B OF 2-03.3(14)C.
- ALL FILL IN AREAS OUTSIDE OF PAVEMENT SHALL BE COMPACTED IN MAXIMUM 8" LIFTS TO 92% OF MAXIMUM ASTM D 1557 DRY DENSITY. PAVEMENT SUBGRADE SHALL BE COMPACTED TO 95%.
- FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC (AMOCO 4545 OR APPROVED EQUIVALENT) BETWEEN THE WASHED DRAIN ROCK AND THE NATIVE SOIL.
- PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL UNDERGROUND UTILITY LOCATION SERVICE AS 456-8000 BEFORE YOU DIG.
- THE FLOOR OF A GRASSED PERCOLATION AREA (GPA) SWALE INCLUDES THE LEVEL PORTION OF THE FLOOR OF THE SWALE, AND THE SIDESLOPES OF THE SWALE UP TO THE GPA OVERFLOW ELEVATION OR TOP OF DRYWELL. THE SOIL LOCATED IN THE FLOOR OF THE GPA 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 GPA 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.
- ONSITE GRADING SHALL BE IN ACCORDANCE WITH THE APPROVED GRADING PLAN AND ESC PLAN. ANY IMPORT OR EXPORT OF MATERIAL SHALL BE FROM 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 DRAINAGE WAYS, ECT.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1993
DATE ACCEPTED: 8/28/07
ACCEPTANCE EXPIRES: 8/28/09
PROJECT LANE MILES PUBLIC: 0.10
PROJECT LANE MILES PRIVATE: 0.10
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: (00) 477-8000
NOTIFY PERMIT ENGINEER 14 BUSINESS DAYS PRIOR TO CONSTRUCTION

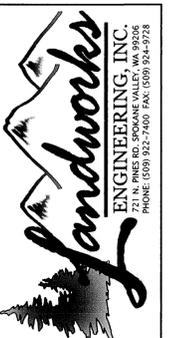
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG

UTILITY STATEMENT
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE FROM FIELD SURVEY INFORMATION COMPLETED BY CLC ASSOCIATES AND EXISTING DRAWINGS. LANDWORKS ENGINEERING, INC. MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHER, WE DO NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN EXACT LOCATION INDICATED, ALTHOUGH WE DO CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

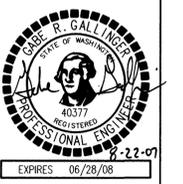
THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO THE APPLICABLE EDITIONS OF THE SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION AND THE SPOKANE COUNTY GUIDELINES FOR STORM WATER MANAGEMENT. ALL DESIGN DEVIATIONS HAVE BEEN APPROVED BY THE SPOKANE COUNTY ENGINEER.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

P-1993 Eng. R. Gallinger

FRIESEN ADDITION
S. 20, T.25N., R.45E., W.M.



FRIESEN ADDITION
CAVALIER LANE
STA. 10+00 TO 15+39.50



SPokane County Public Works
Division of Roads & Engineering
W. 1026 Broadway Ave.
Spokane, WA 99201
PHONE #: 477-3004

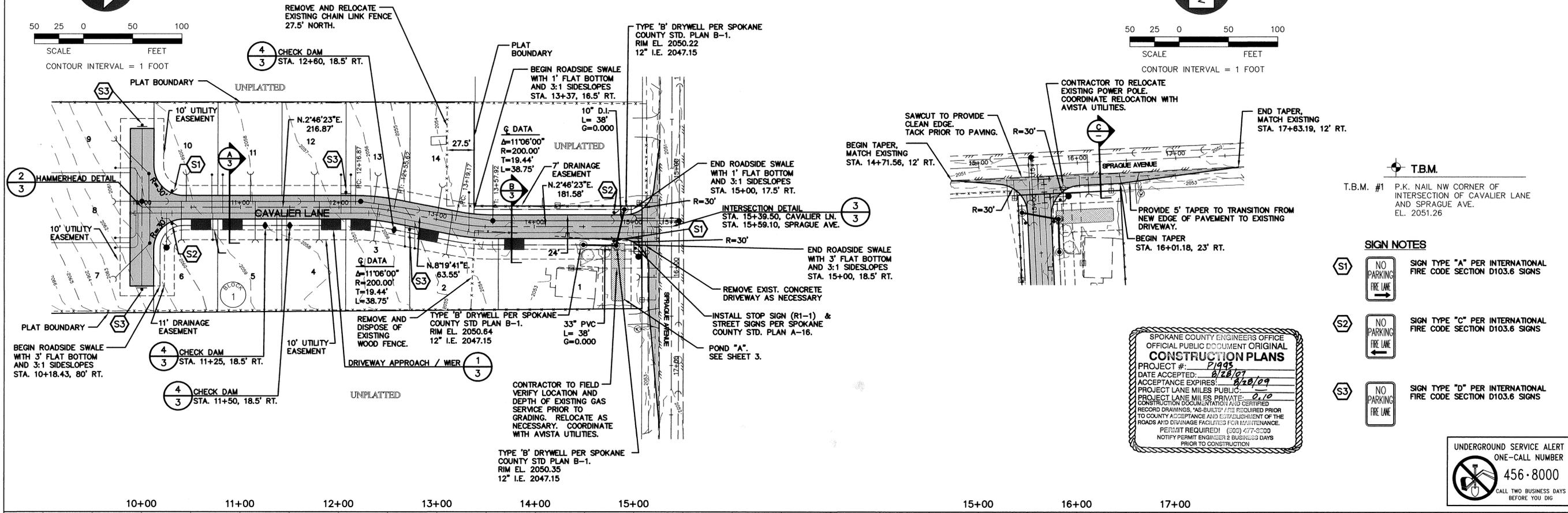
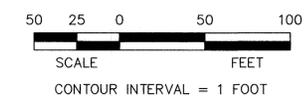
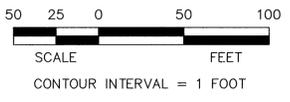
VERTICAL DATUM - NAVD 88
ESTABLISHED ON-SITE BY GPS SURVEY PERFORMED
MARCH 2007. SET PT. NAIL IN NEAR SOUTH EDGE OF
PAVEMENT 30' WEST OF N.E. PROPERTY CORNER.
ELEVATION 2050.15

| # | DATE | BY | REVISION |
|---|---------|-----|---|
| 1 | 8-15-07 | KWE | ORIGINAL SUBMITTAL |
| 2 | 8-22-07 | KWE | REVISED PER SPOKANE COUNTY COMMENTS DATED 8-21-07 |

SCALE
HOR. 1"=50'
VERT. 1"=10'

PROJECT #: 07-009
DESIGNED BY: KWE
CHECKED BY: BRG

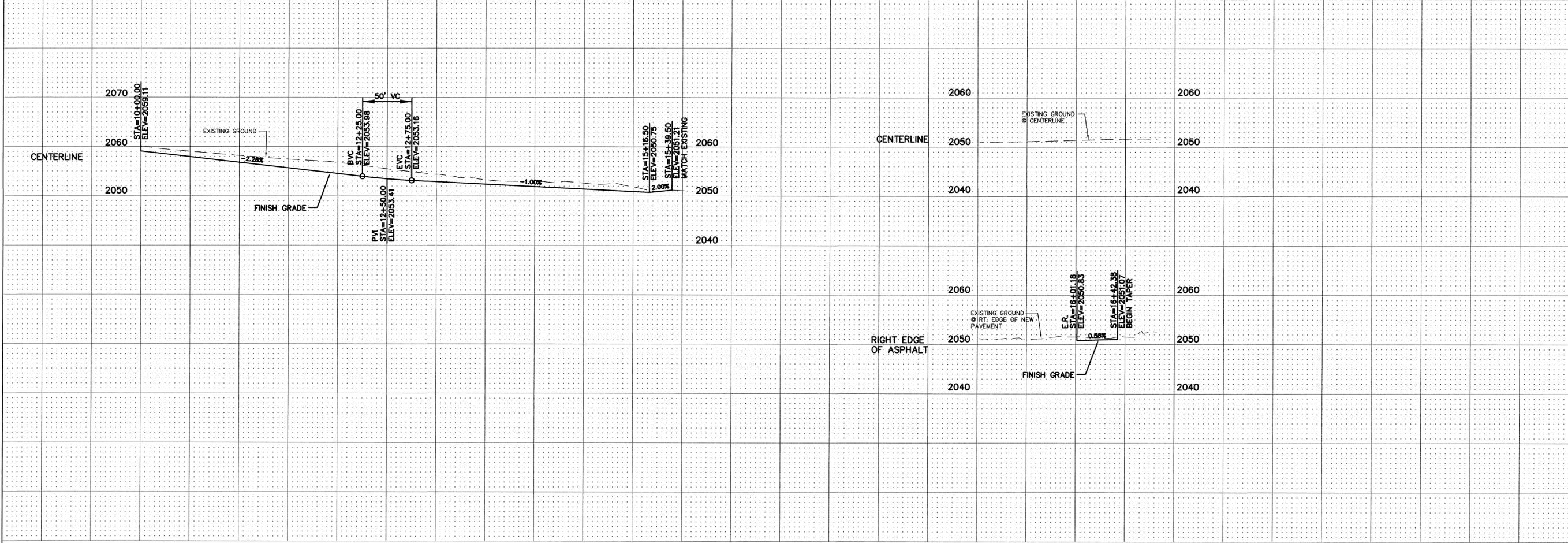
ROAD SHEET
2 OF 4



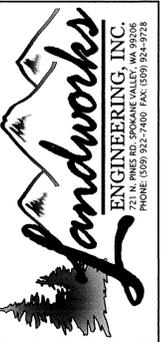
SPokane County Engineers Office
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 07995
DATE ACCEPTED: 8/28/07
ACCEPTANCE EXPIRES: 8/28/09
PROJECT LANE MILES PUBLIC: _____
PROJECT LANE MILES PRIVATE: 0.10
CONSTRUCTION DOCUMENTATION ALSO CERTIFIED
RECORD DRAWINGS, "AS-BUILT" ARE REQUIRED PRIOR
TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE
ROADS AND DIVING FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED: (200) 477-3200
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS
PRIOR TO CONSTRUCTION

- T.B.M. #1 P.K. NAIL NW CORNER OF INTERSECTION OF CAVALIER LANE AND SPRAGUE AVE. EL. 2051.26
- SIGN NOTES**
- S1 NO PARKING FIRE LANE (with arrow pointing right)
 - S2 NO PARKING FIRE LANE (with arrow pointing left)
 - S3 NO PARKING FIRE LANE (with arrow pointing left)
- SIGN TYPE "A" PER INTERNATIONAL FIRE CODE SECTION D103.6 SIGNS
SIGN TYPE "C" PER INTERNATIONAL FIRE CODE SECTION D103.6 SIGNS
SIGN TYPE "D" PER INTERNATIONAL FIRE CODE SECTION D103.6 SIGNS

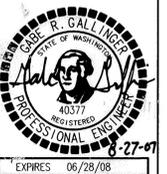
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG



P-1993 Ery Road Drainage

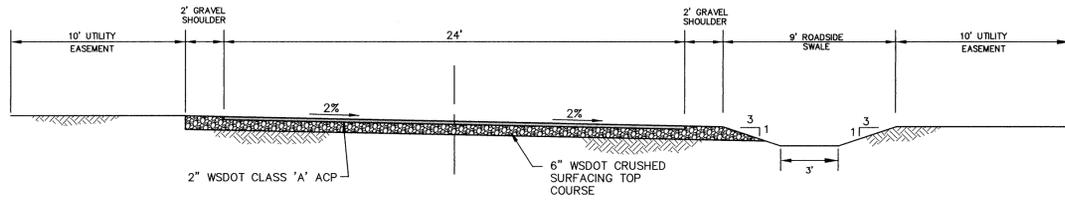


FRIESEN ADDITION
ROAD SECTIONS AND
POND DETAILS



SPokane County Public Works
Division of Roads & Engineering
W. Sprague Ave., Spokane, WA 99201
Phone #: 477-3004

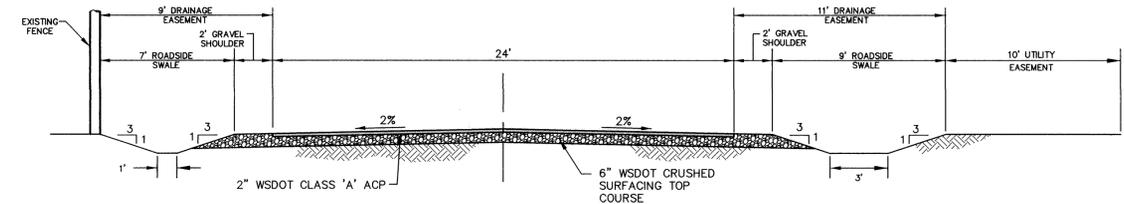
VERTICAL DATUM - NAVD 88
ESTABLISHED ON-SITE BY GPS SURVEY PERFORMED
MARCH 2007. SET PIN NAIL NEAR SOUTH EDGE OF
CORNER WEST OF N.E. PROPERTY CORNER.
E.L. = 2051.28



TYPICAL ROAD SECTION - CAVALIER LANE

STA. 10+42.06 TO STA. 12+75 - FULL SUPERELEVATION
STA. 12+75 TO STA. 13+35 - TRANSITION TO CROWN
NOT TO SCALE

A
2

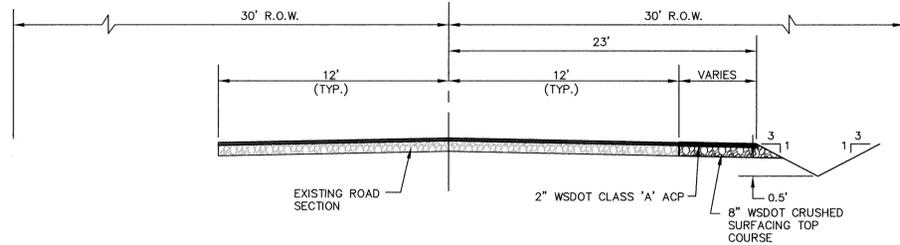


TYPICAL ROAD SECTION - CAVALIER LANE

STA. 13+35 TO STA. 14+91.12
NOT TO SCALE

B
2

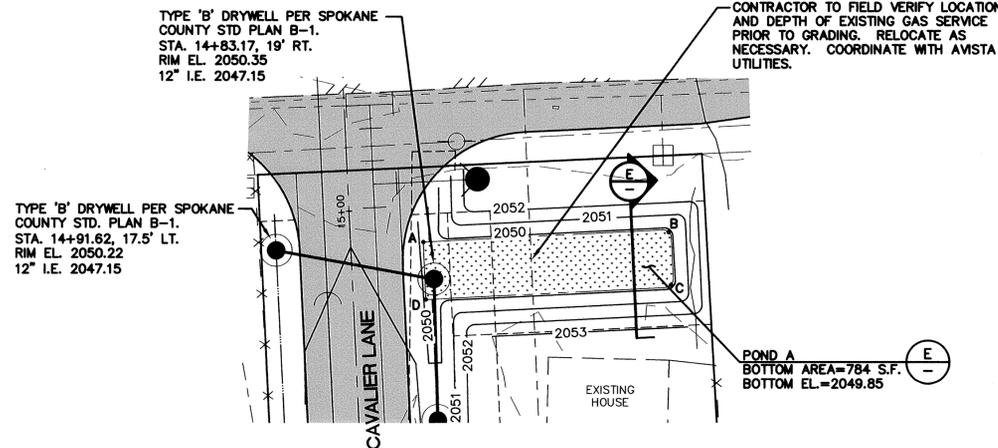
SPokane County Engineers Office
OFFICIAL PUBLIC DOCUMENT ORIGINAL
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PROJECT LANE MILES PUBLIC: 0.10
PROJECT LANE MILES PRIVATE: 0.10
CONSTRUCTION DOCUMENTATION AND CERTIFIED
RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR
TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE
ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3000
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS
PRIOR TO CONSTRUCTION



TYPICAL ROAD SECTION - SPRAGUE AVE

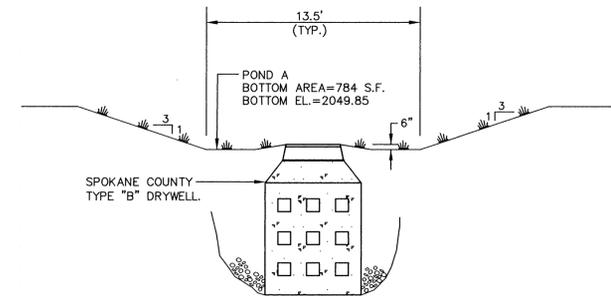
NOT TO SCALE

C
2



TYPE 'B' DRYWELL PER SPOKANE COUNTY STD. PLAN B-1.
STA. 14+91.62, 17.5' LT.
RIM EL. 2050.22
12" I.E. 2047.15

E
-



SWALE 'A' SECTION

NOT TO SCALE

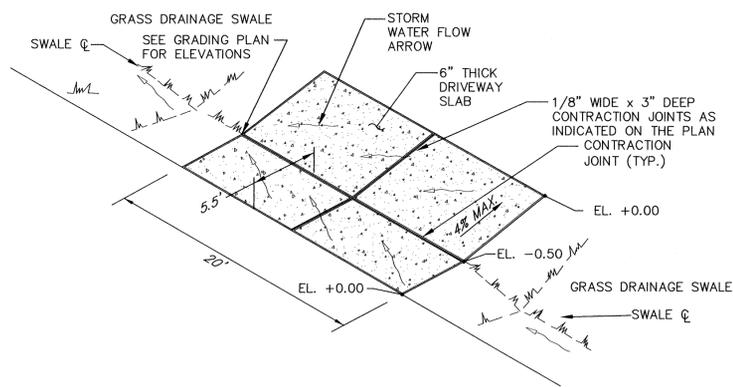
E
-

| ITEM | STATION | OFFSET |
|------|----------|-----------|
| A | 14+91.96 | 17.0' RT. |
| B | 14+91.49 | 74.6' RT. |
| C | 14+79.16 | 74.6' RT. |
| D | 14+78.46 | 17.0' RT. |

POND 'A' DETAIL

1" = 20'

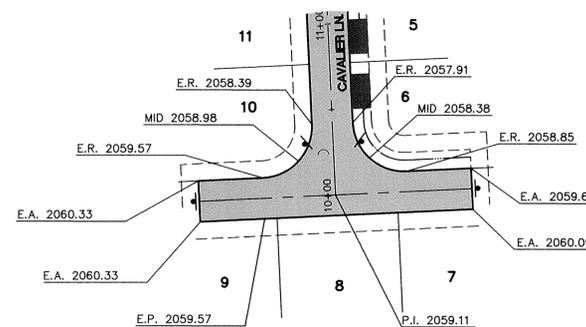
D
2



DRIVEWAY APPROACH / WIER

NOT TO SCALE

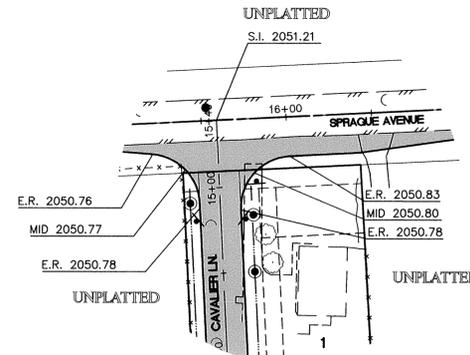
1
2



HAMMERHEAD DETAIL

SCALE 1" = 50'

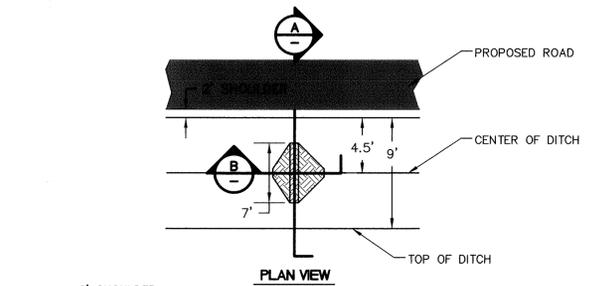
2
2



INTERSECTION DETAIL

SCALE 1" = 50'

3
2



CHECK DAM

NOT TO SCALE

4
2

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. LANDWORKS ENGINEERING, INC. MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHER, WE DO NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN EXACT LOCATION INDICATED, ALTHOUGH WE DO CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

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

| REVISION | DATE | BY | REASON |
|----------|---------|-----|---|
| 1 | 8-16-07 | KWE | ORIGINAL SUBMITTAL |
| 2 | 8-22-07 | KWE | REVISED PER SPOKANE COUNTY COMMENTS DATED 8-21-07 |

DATE: 8/28/07
DEVELOPER'S APPROVAL: [Signature]

PROJECT #: 07-009
DESIGNED BY: KWE
CHECKED BY: GRG

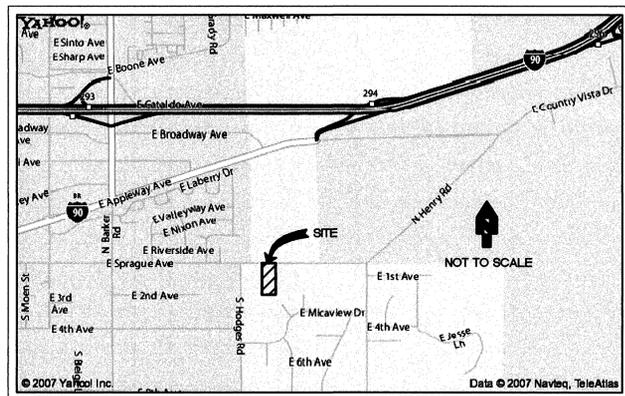
ROAD SHEET
3 OF 4

EROSION CONTROL NOTES:

1. AN EROSION/SEDIMENT CONTROL (ESC) PLAN IS REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE ESC PLAN, AND CONSTRUCTION, MAINTENANCE AND UPGRADING OF THE ESC 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.
2. 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.
3. THE EROSION/SEDIMENTATION CONTROL 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/EXISTING STORM DRAINAGE FACILITIES, SUCH AS DRYWELLS, CULVERTS, OR GRAVEL GALLERIES.
4. THE CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR INSTALLING ROCK CONSTRUCTION ENTRIES AT ANY AND ALL LOCATIONS USED TO ENTER OR EXIT THE PROJECT SITE. ACCESS FOR CONSTRUCTION VEHICLES SHOULD BE LIMITED TO ONE ROUTE WHENEVER POSSIBLE. CONTROL FACILITIES WILL BE MAINTAINED WHILE CONSTRUCTION IS IN PROGRESS, MOVED WHEN NECESSARY AND REMOVED WHEN THE SITE IS PAVED. SEE DETAIL 1, THIS SHEET.
5. CONTRACTOR TO PREVENT AGAINST SEDIMENTATION BY INSTALLING GEOTEXTILE FABRIC BETWEEN THE RIM AND GRATE OF DRYWELLS, CATCH BASINS AND INLETS UNTIL SUCH TIME THE VEGETATION ON THE SITE IS ESTABLISHED AND THE THREAT OF SEDIMENT DEPOSITION INTO THE DRAINAGE SYSTEM IS MITIGATED.
6. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING EROSION DUE TO WIND AND RUNOFF. CONTRACTOR IS RESPONSIBLE FOR SUPPRESSION OF DUST IN CONFORMANCE WITH SCAPCA REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL FACILITIES SHOWN AS A MINIMUM.
7. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DUE TO UNFORESEEN PROBLEMS OR IF THE PLAN DOES NOT FUNCTION AS INTENDED. THE INTENT IS TO KEEP SEDIMENT ON THE PROJECT SITE AND NOT ALLOW IT TO REACH ADJACENT PROPERTIES, WATER BODIES, AND PUBLIC OR PRIVATE ROADS.
8. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL CATCH BASIN AND DRYWELL GRATES DURING CONSTRUCTION AND PERIODICALLY CLEAN DEBRIS COLLECTED ON FABRIC. IF THE FILTER FABRIC, FOR ANY REASON, IS REMOVED DURING CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN OUT THE CATCH BASIN OR DRYWELL AND REPLACE THE FABRIC.
9. THE CONTRACTOR SHALL DESIGNATE AND POST A LOCATION FOR A SLURRY PIT WHERE CONCRETE TRUCKS AND EQUIPMENT CAN BE WASHED OUT. SLURRY PITS SHALL NOT BE LOCATED IN NOR DRAIN INTO A SWALE, DRAINAGE AREA, STORM WATER FACILITY OR WATER BODY, EITHER EXISTING OR PROPOSED. HARDENED WASH CONCRETE SHALL BE BROKEN UP AND REMOVED FROM THE SITE.
10. CONTRACTOR SHALL IDENTIFY A LOCATION FOR STORAGE/STOCKPILE AREAS (WITHIN THE PROPOSED ESC PLAN BOUNDARIES) FOR ANY SOIL, EARTHEN AND LANDSCAPE MATERIAL THAT IS TO BE USED ON-SITE.
11. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMP'S DURING ALL LAND-DISTURBING ACTIVITIES. CONTRACTOR SHALL INSPECT ALL EROSION CONTROL STRUCTURES AFTER EVERY RAINFALL EVENT, REMOVE DEBRIS AND SEDIMENT AND MAKE NEEDED REPAIRS.
12. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
13. CONTRACTOR SHALL FIELD IDENTIFY AND DELINEATE ALL CLEARING LIMITS, SENSITIVE/CRITICAL AREAS, BUFFERS, TREES TO BE PRESERVED AND DRAINAGE COURSES.
14. CONSTRUCTION OF ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF OTHER LAND DISTURBING ACTIVITIES.
15. ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT RECEIVING PAVEMENT, GRAVEL, OR LANDSCAPE TREATMENT SHALL BE STABILIZED BY APPLICATION OF A HYDROSEED MIXTURE OF DRYLAND GRASS SEED.
16. EROSION CONTROL STRUCTURES BELOW SODDED OR RIP RAPPED AREAS MAY BE REMOVED ONCE SOD AND FINAL LANDSCAPING IS IN PLACE. EROSION CONTROL STRUCTURES BELOW SEEDER AREAS MUST REMAIN IN PLACE UNTIL THE ENTIRE AREA HAS ESTABLISHED A MATURE COVERING OF HEALTHY VEGETATION. EROSION CONTROL IN PROPOSED PAVED AREAS SHALL REMAIN IN PLACE UNTIL PAVEMENT IS COMPLETE.
17. ALL TEMPORARY SEDIMENT CONTROL BMP'S SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY BMP'S ARE NO LONGER NEEDED.
18. CONTRACTOR SHALL CONTROL ALL ON-SITE POLLUTANTS OTHER THAN SEDIMENT IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORM WATER OR GROUNDWATER.
19. THIS PLAN IS ONLY TO BE USED FOR INSTALLATION OF EROSION CONTROL FACILITIES. DO NOT USE THIS PLAN FOR GRADING OR STORM SEWER CONSTRUCTION.
20. ONSITE GRADING SHALL BE IN ACCORDANCE WITH THE APPROVED GRADING PLAN AND ESC PLAN. ANY IMPORT OR EXPORT OF MATERIAL SHALL BE FROM 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 DRAINAGE WAYS, ECT.

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE FROM FIELD SURVEY INFORMATION COMPLETED BY CLC ASSOCIATES AND EXISTING DRAWINGS. LANDWORKS ENGINEERING, INC. MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHER, WE DO NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN EXACT LOCATION INDICATED, ALTHOUGH WE DO CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.



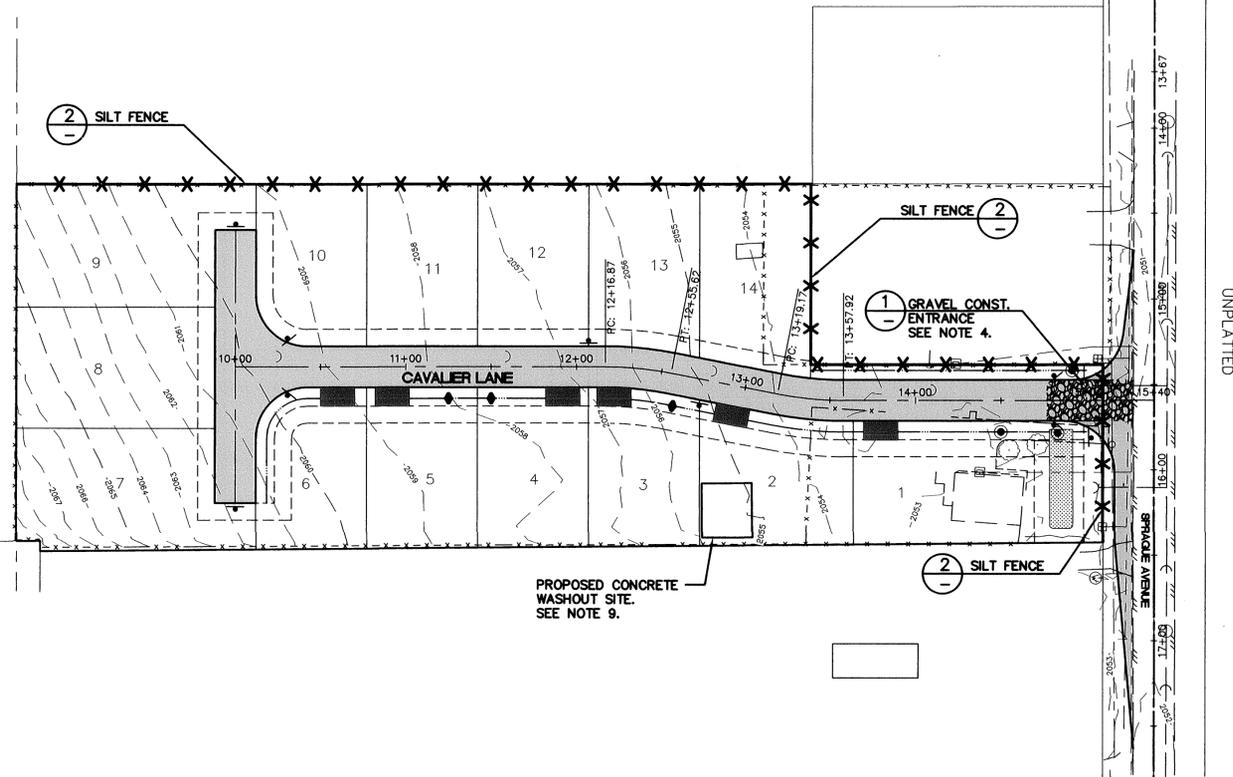
VICINITY MAP

| | |
|---|---|
| PROPERTY OWNER & PERMIT APPLICANT | LANDWORKS DEVELOPMENT, INC. 721 N. PINES ROAD SPOKANE VALLEY, WA 99206 |
| CONTACT PERSON AT PROJECT SITE | BRUCE HOWARD PHONE # (509) 922-7400 |
| PROJECT ADDRESS | 19808 EAST SPRAGUE AVE. SPOKANE VALLEY, WA |
| PROJECT DESCRIPTION | SINGLE FAMILY RESIDENTIAL DEVELOPMENT INCLUDING PRIVATE ASPHALT ROADS, SEWER AND WATER |
| DESCRIPTION OF ESC MEASURES | ESC MEASURES INCLUDE SILT FENCES, GRAVEL CONSTRUCTION ENTRANCES, AND CONCRETE WASHOUT AREA. |
| DESCRIPTION OF EXISTING SITE VEGETATION | THE SITE IS COMPOSED MEADOW GRASS AND OPEN SPACE SLOPING FROM THE NORTH TO SOUTH AT 2%. |
| LIST OF ON-SITE SOILS | GgA- GARRISON GRAVELLY LOAM |
| LEGAL DESCRIPTION. | SEE PLAT MAP. |

FRIESEN ADDITION
S. 20, T.25N., R.45E., W.M.

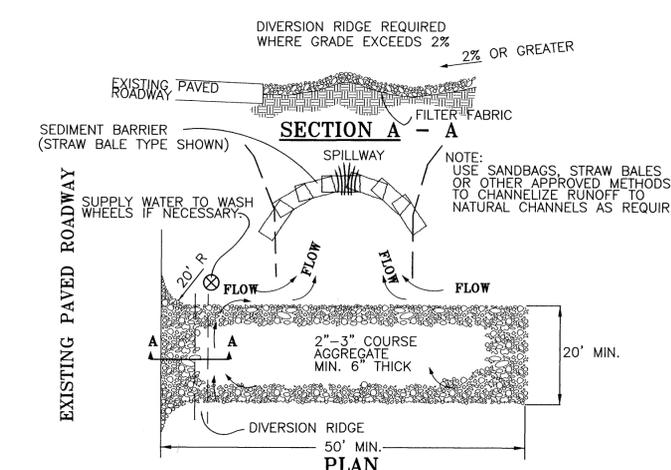


UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG



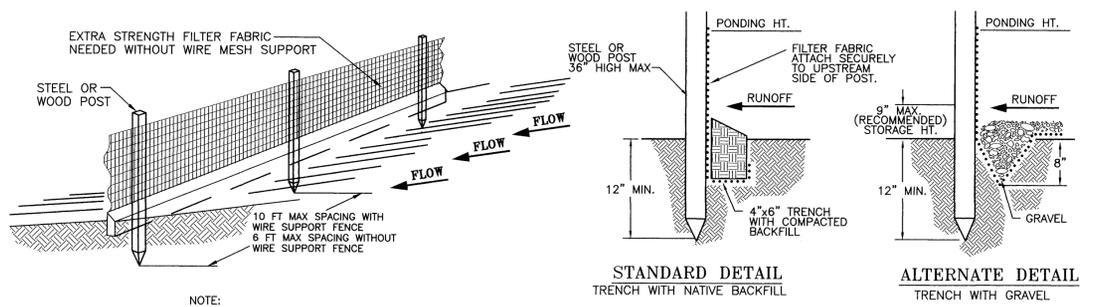
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1993
DATE ACCEPTED: 8/28/07
ACCEPTANCE EXPIRES: 8/28/07
PROJECT LANE MILES PUBLIC: 0.02
PROJECT LANE MILES PRIVATE: 0.00
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, 'AS-BUILT'S ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND EXCHANGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIREMENT: (30) 477-5200
NOTIFY PERMIT ENGINEER 14 CALENDAR DAYS PRIOR TO CONSTRUCTION!

THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THIS PLAN CONFORM TO THE REQUIREMENTS LISTED IN CHAPTER 4.5 OF THE APPLICABLE EDITIONS OF THE GUIDELINES FOR STORMWATER MANAGEMENT AS PUBLISHED BY THE SPOKANE COUNTY DIVISION OF ENGINEERING AND ROADS.



- NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO EXIST. ASPHALT ROADWAYS.
 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY GRAVEL CONSTRUCTION EXIT/ENTRANCE
NOT TO SCALE

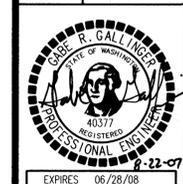


- NOTES:
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
 2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
 3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

SILT FENCE
NOT TO SCALE



FRIESEN ADDITION
TEMPORARY EROSION AND SEDIMENT CONTROL PLAN



SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ROADS & ENGINEERING
W. 1026 BROADWAY AVE.
SPOKANE, WA 99260
PHONE #: 477-3604

VERTICAL DATUM - NAVD 88
ESTABLISHED ON-SITE BY GPS SURVEY PERFORMED BY LANDWORKS ENGINEERING, INC. SEE SETBACK MAP FOR EXACT LOCATION OF POINT. SEE SETBACK MAP FOR EXACT LOCATION OF POINT. SEE SETBACK MAP FOR EXACT LOCATION OF POINT.

| | | | |
|----------|---------|-----|---|
| REVISION | DATE | BY | REASON |
| 1 | 8-16-07 | KWE | ORIGINAL SUBMITTAL |
| 2 | 8-22-07 | KWE | REVISED PER SPOKANE COUNTY COMMENTS DATED 8-31-07 |

DATE: 8/22/07

DEVELOPER'S APPROVAL: *Bruce R. Gallinger*

SCALE
HOR. 1"=50'
VERT. N/A

PROJECT #: 07-009
DESIGNED BY: KWE
CHECKED BY: BRB

DETAIL SHEET
4 OF 4

P-1993 Eng Roads & Drainage