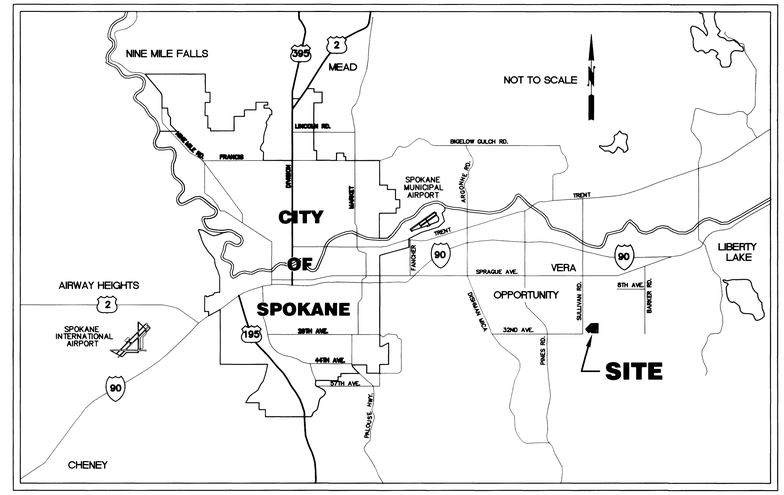
BRIGADOON ADDITION

SPOKANE COUNTY, WASHINGTON

SECTION 30, T. 25N., R. 45E., W.M.



LOCATION MAP

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1962A
DATE ACCEPTED: 9/6/06
ACCEPTANCE EXPIRES: 9/8/08
PROJECT LANE MILES PUBLIC: 0.33
PROJECT LANE MILES PRIVATE: –
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 REQUIR[illegible] (509) 477-3600
NOTIFY PERMIT EXP[illegible] BUSINESS DAYS PRIOR TO C[illegible]RUCTIO[illegible]

SCHEDULE OF DRAWINGS

SHEET NO. DESCRIPTION

GENERAL

1 .....COVER SHEET

ROAD

2 .....CLOVER DRIVE- STA. 13+08.07 TO STA. 21+02.04
3 .....SHAMROCK DRIVE- STA. 10+00 TO STA. 17+95.83
4 .....SHAMROCK COURT- STA. 10+00 TO STA 11+50

DRAINAGE

5 .....CLOVER DRIVE- STA. 20+79.34 TO STA. 22+36.83
CLOVER DRIVE- TEMPORARY DRAINAGE PONDS
6 .....SHAMROCK DRIVE- STA. 9+97.23 TO STA. 14+55.41
7 .....EROSION CONTROL PLAN
8 .....EROSION CONTROL PLAN DETAILS

GENERAL NOTES:

1. ALL MATERIALS AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION 1995", AS AMENDED, AND PER THE "2000 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).
2. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 1-800-424-5555 BEFORE YOU DIG.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. ALL FILL IN AREAS OUTSIDE OF PAVEMENT SHALL BE COMPACTED IN MAXIMUM 8" LIFTS TO 92% OF MAXIMUM ASTM D 1557 DRY DENSITY. PAVEMENT SURGED SHALL BE COMPACTED TO 95%.
15. FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC (AMOCO 4545 OR APPROVED EQUIVALENT) BETWEEN THE WASHED DRAIN ROCK AND THE NATIVE SOIL.
16. 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.
17. THE CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR TO VERIFY THAT THE CROSS-GUTTER FORMS ARE AT THE CORRECT PLANE GRADE PRIOR TO CONCRETE PLACEMENT. THE CROSS-GUTTER SHALL BE CONSTRUCTED PRIOR TO PAVING, AND THE PAVEMENT SHALL THEN MATCH THE EDGE OF CONCRETE GUTTER.

LEGEND

	EXISTING LOT LINE		PLAT BOUNDARY
2353	EXISTING CONTOUR		PROPOSED LOT LINES
	EASEMENT LINE		PROPOSED CURB & GUTTER
BT	EXISTING BURIED TELEPHONE		PROPOSED SIDEWALK
G	EXISTING BURIED GAS PIPELINE		PROPOSED WATER LINE PLUG
OE	EXISTING OVERHEAD ELECTRICAL		PROPOSED DRAINAGE FLOW
x x x x	EXISTING FENCE	W	PROPOSED WATER LINE
W	EXISTING WATER LINE	SS	PROPOSED SANITARY SEWER
SS	EXISTING SEWER LINE	SD	PROPOSED STORM DRAIN LINE
SD	EXISTING STORM DRAIN LINE	2160	FINISH CONTOUR
	EXISTING WATER VALVE	2300	FINISH GRADE ELEVATION
	EXISTING WATER LINE FITTING (TYP.)		PROPOSED WATER VALVE
	EXISTING FIRE HYDRANT		PROPOSED CONCRETE THRUST BLOCK
	EXISTING WATER METER AND SERVICE		PROPOSED WATER FITTING (TYP.)
	EXISTING SIGN		PROPOSED WATER VALVE
	EXISTING SS MANHOLE		PROPOSED FIRE HYDRANT
DW	EXIST. DRYWELL		PROPOSED SS MANHOLE
CB	EXIST. CATCH BASIN		PROPOSED STORM MANHOLE
	EXISTING STORM MANHOLE		PROPOSED STORM CATCH BASIN
CO	EXISTING CLEAN OUT		PROPOSED CLEAN OUT
			PROPOSED CURB INLET
			PROPOSED DRYWELL
		MON.	MONUMENT

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1-800-424-5555
CALL TWO BUSINESS DAYS BEFORE YOU DIG

Developer's Approval Richard D. Kahn president Date 8/22/6

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 Stormwater Management. All design deviations have been approved by the Spokane County Engineer. I approve these plans for construction.

MARK A. AROASON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 8/22/06
EXPIRES 03/10/07

REVISIONS

DWN: DJJ DATE: 6/9/06
CK'D: MAA DATE: 6/9/06

Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224

SCALE: N/A

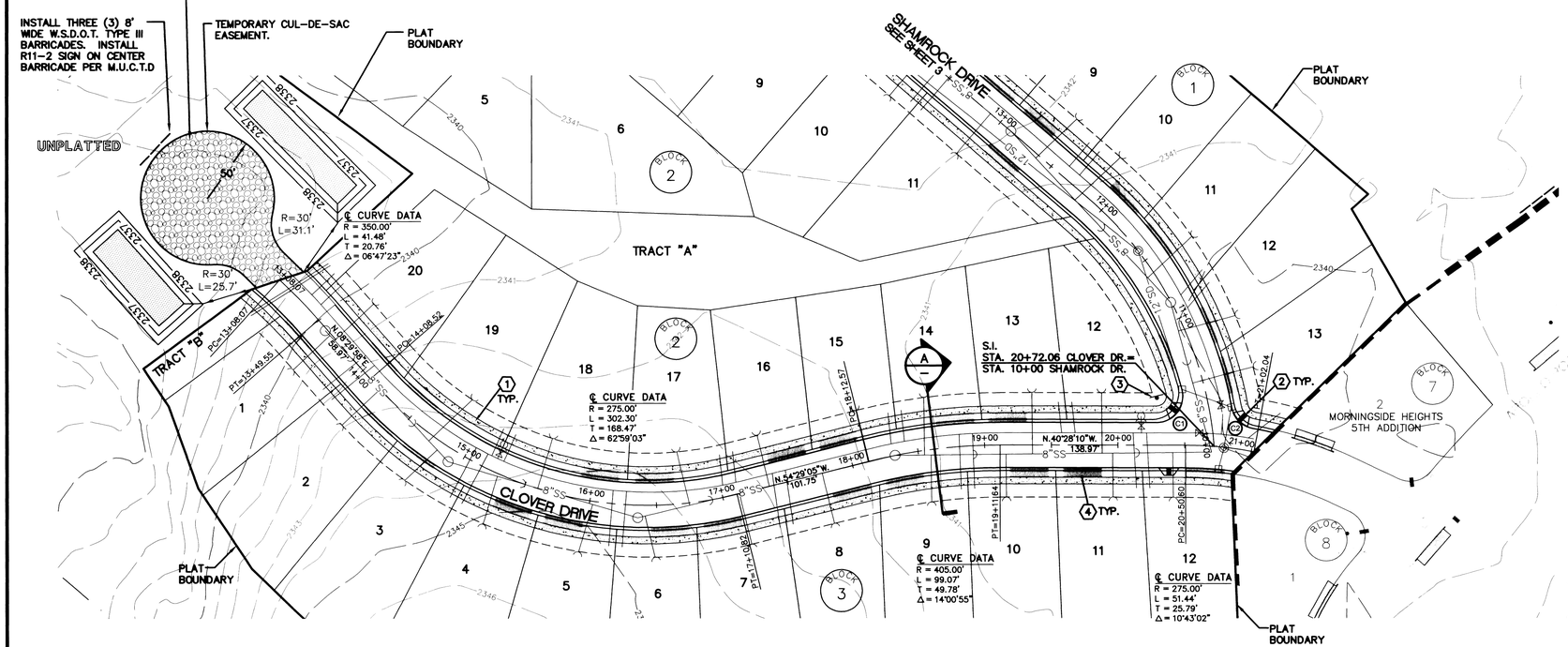
1 / 8

COVER SHEET
BRIGADOON
ADDITION

05081G-COVER SHEET.dwg

P-1962A Engineered Drawings

SEC.30, T.25 N., R. 45 EAST, W.M.



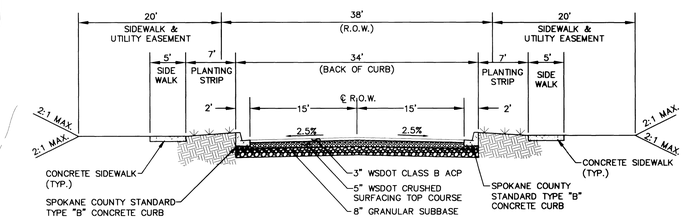
CURVE TABLE AT FACE OF CURB

CURVE	RADIUS	LENGTH	DELTA
C1	20.00'	36.49'	104°32'10"
C2	20.00'	24.38'	69°49'47"

CONSTRUCTION NOTES

ALL DETAILS SHALL BE PER SPOKANE COUNTY STANDARDS UNLESS OTHERWISE NOTED.

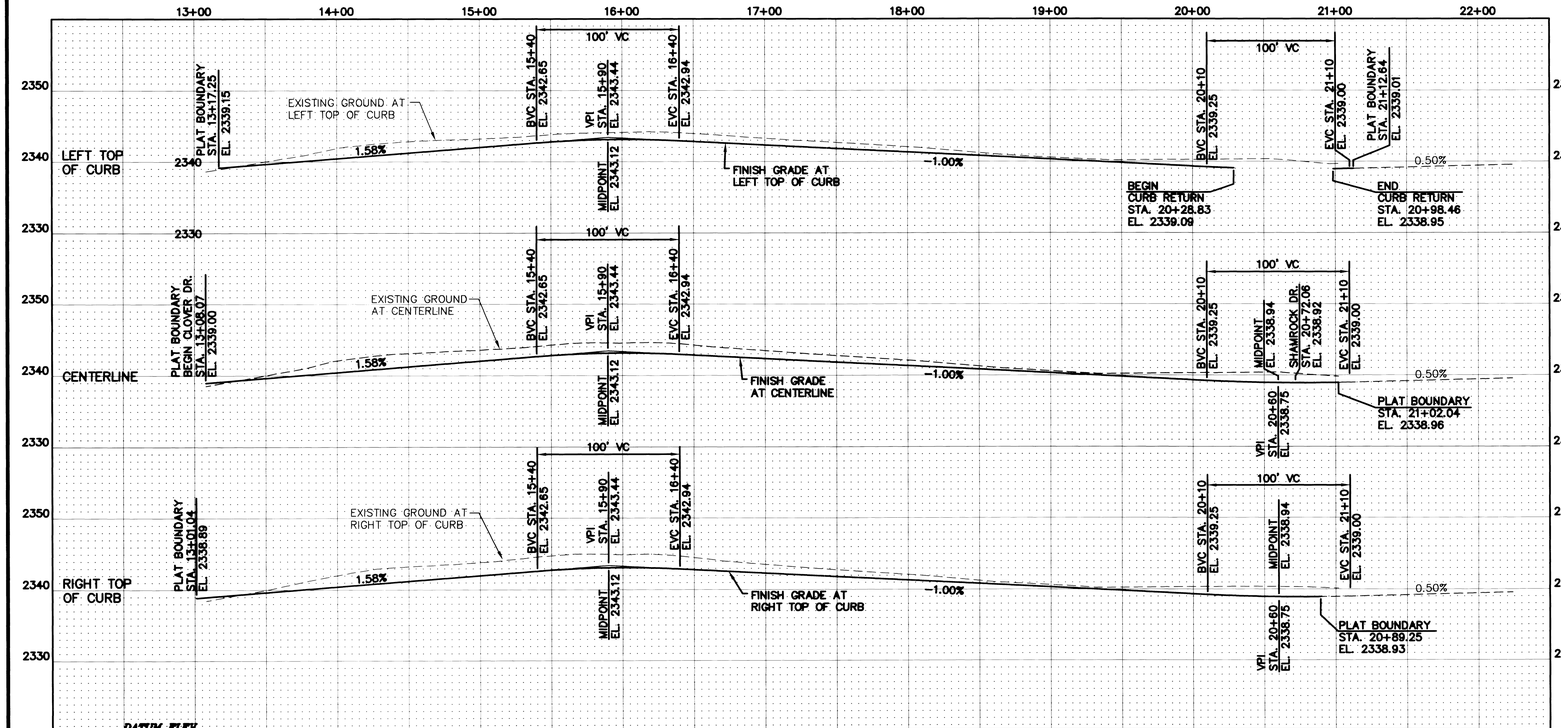
1. 5' WIDE CONCRETE SIDEWALK PER STANDARD SHEET A-4.
2. WHEEL CHAIR RAMP PER STANDARD SHEET A-5, DESIGN 'B'.
3. SIGN POST W/STREET SIGN PER STANDARD SHEET A-16.
4. DRIVEWAY PER SPOKANE COUNTY STD. PLAN A-4.

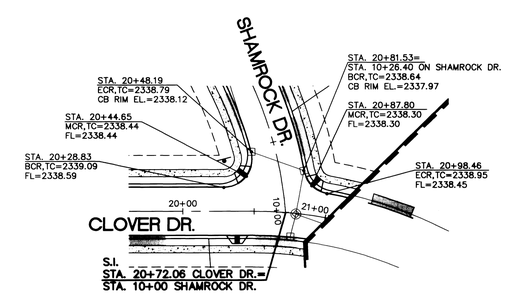


* 8" GRANULAR SUBBASE SHALL CONSIST OF CRUSHED OR PIT RUN OPEN-GRADED GRAVEL VARYING IN SIZE PRIMARILY FROM ½ TO ⅜-INCH WITH LITTLE TO NO SAND OR FINES (5% MAXIMUM PASSING #4 SIEVE, 1% MAXIMUM PASSING #200 SIEVE).

TYPICAL ROAD SECTION A 23.4

N.T.S.





INTERSECTION DETAIL

1" = 50'

SPOKANE COUNTY ENGINEERS OFFICE
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PROJECT LANE MILES PUBLIC: 0.33
PROJECT LANE MILES PRIVATE: 0
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PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

No.	Date	By	Ckd.	Appr.	Revisions

Drawn: ALB,DJJ — Date 06/07/06
Designed: BAN — 06/07/06
Checked: MAA — 07/20/06

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 8/22/06 — EXPIRES 03/10/07

Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224

Developer's Approval: Richard P. Dahm President Date: 8/22/6

SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

VERTICAL DATUM: "X" IN SIDEWALK @ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL.=2305.75 (NAVD 88)

CADD FILE NAME: 05081G-RD1.dwg

50 25 0 50 100
SCALE 1" = 50' FEET

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

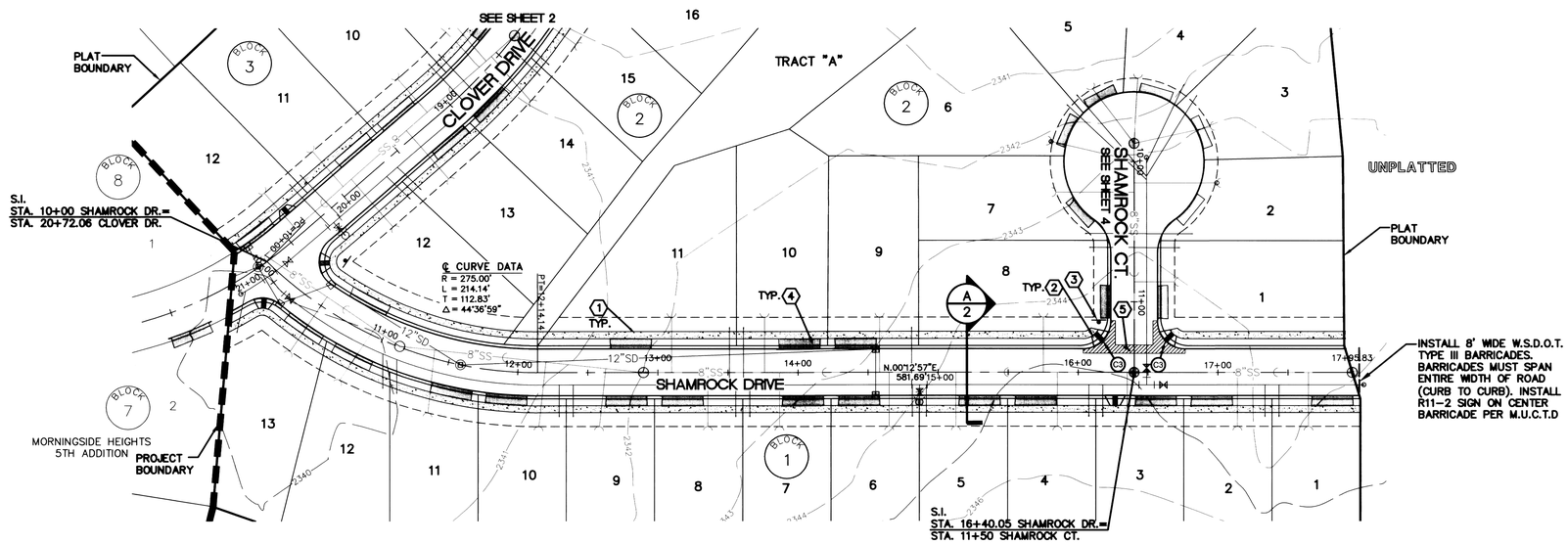
BRIGADOON ADDITION

CLOVER DRIVE
STA. 13+08.07 TO STA. 21+02.04

ROAD
SHEET 2 / 8

P-19620 Engineer Review

SEC.30, T.25 N., R. 45 EAST, W.M.



CURVE TABLE AT FACE OF CURB

CURVE	RADIUS	LENGTH	DELTA
C3	20.00'	31.42'	90°00'00"

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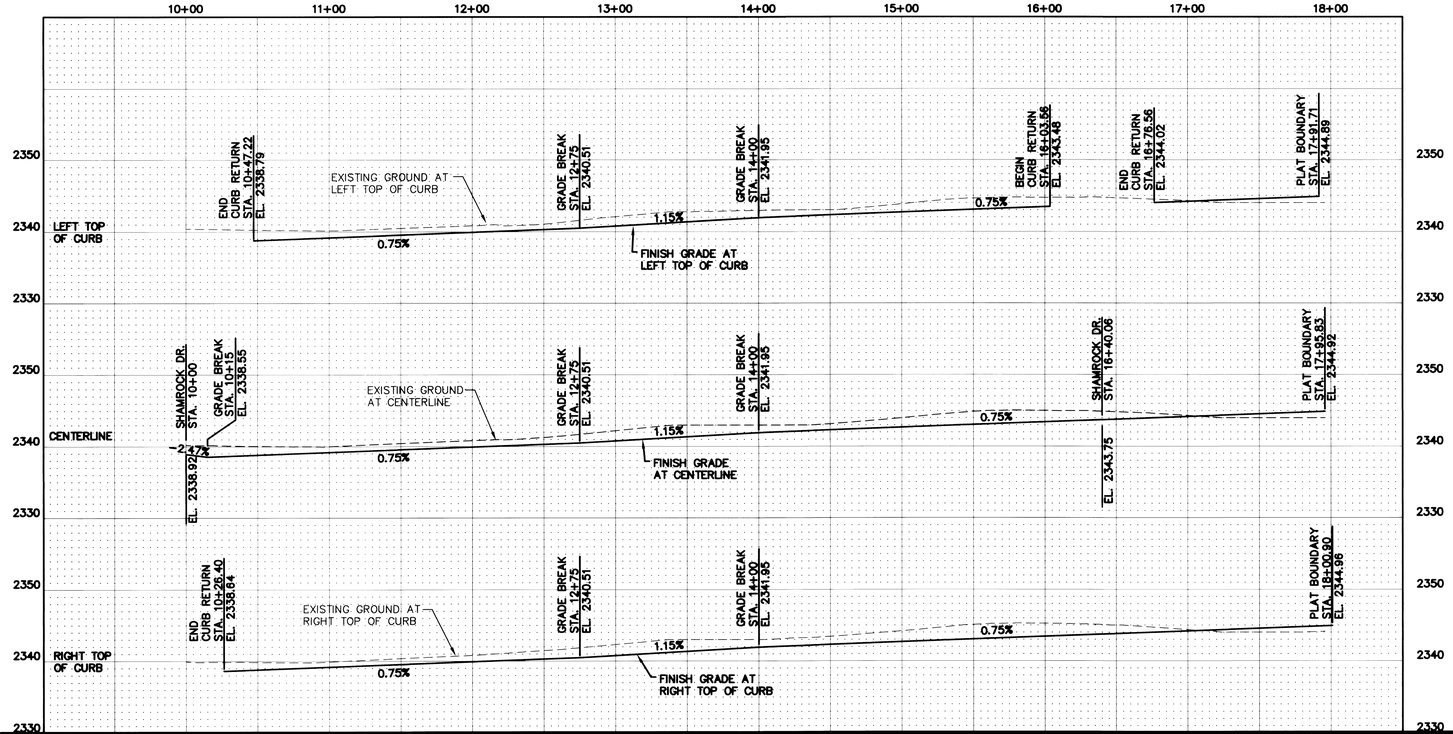
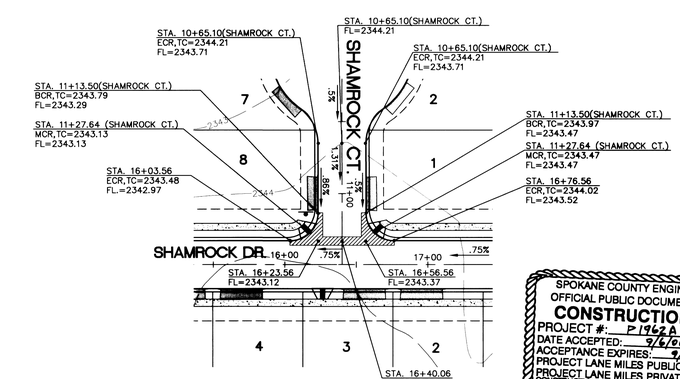
5. INSTALL TYPE 1 CONCRETE CROSS GUTTER PER STANDARD SHEET B-18.





INTERSECTION DETAIL

1" = 50'

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Developer's Approval: Richard P. Stuhm Date: 8/22/6

VERTICAL DATUM: "X" IN SIDEWALK @ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL.=2305.75 (NAVD 88)

CADD FILE NAME: 05081G-RD2(3).dwg

50 25 0 50 100
SCALE 1" = 50' FEET

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

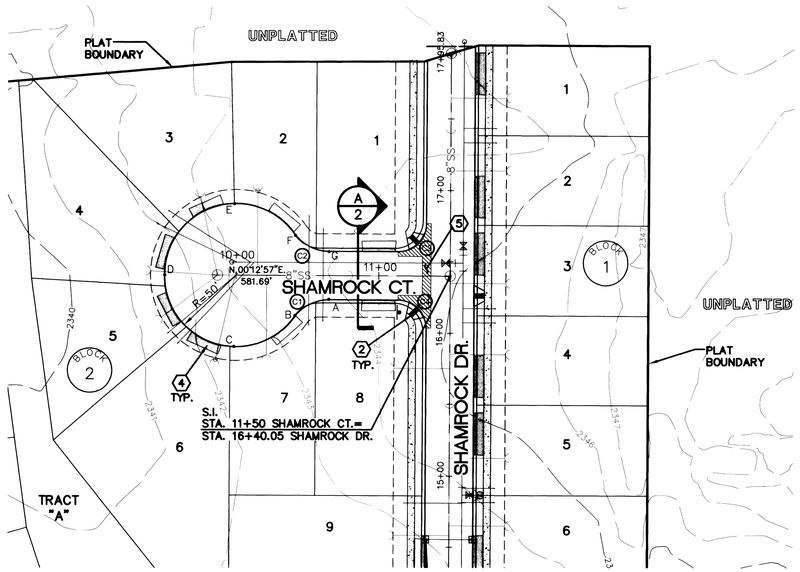
BRIGADOON ADDITION

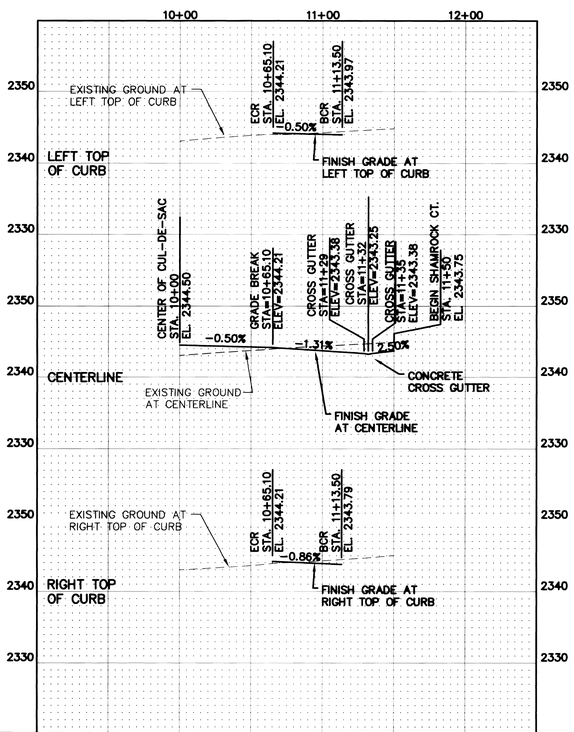
SHAMROCK ROAD
STA. 10+00 TO STA. 17+95.83

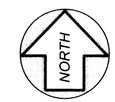
ROAD
SHEET 3 / 8

P-1962A Eng Prel Drainage

SEC.30, T.25 N., R. 45 EAST, W.M.







CURVE TABLE AT FACE OF CURB

CURVE	RADIUS	LENGTH	DELTA
C1	30.00'	28.52'	54°27'41"
C2	30.00'	28.52'	54°27'41"
C3	20.00'	19.60'	56°08'30"
C4	20.00'	19.60'	56°08'30"

CONSTRUCTION NOTES
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4. DRIVEWAY PER SPOKANE COUNTY STD. PLAN A-4.
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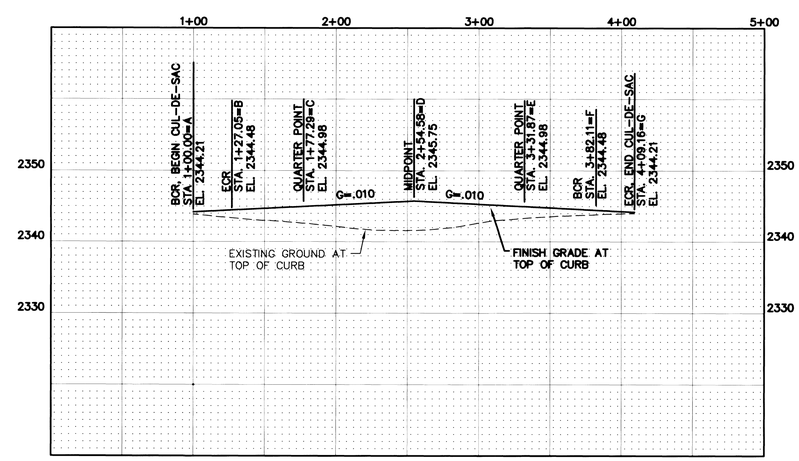

CUL-DE-SAC

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Developer's Approval: Richard Dahm President Date: 8/22/6

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50 25 0 50 100
SCALE 1" = 50' FEET

SCALE
HORIZ. 1" = 50'
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BRIGADOON ADDITION

SHAMROCK COURT
STA. 10+00 TO STA 11+50

ROAD
SHEET 4 / 8

P-1962A Eng Rd Drainage

SEC.30, T.25 N., R. 45 EAST, W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
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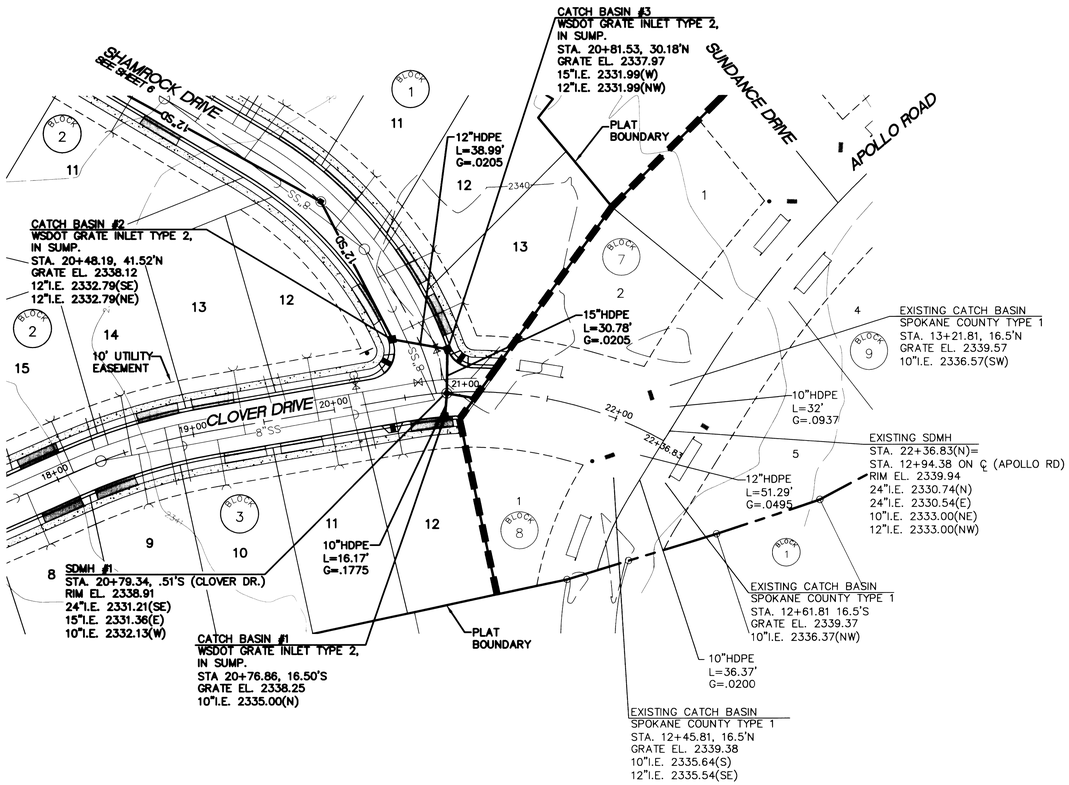
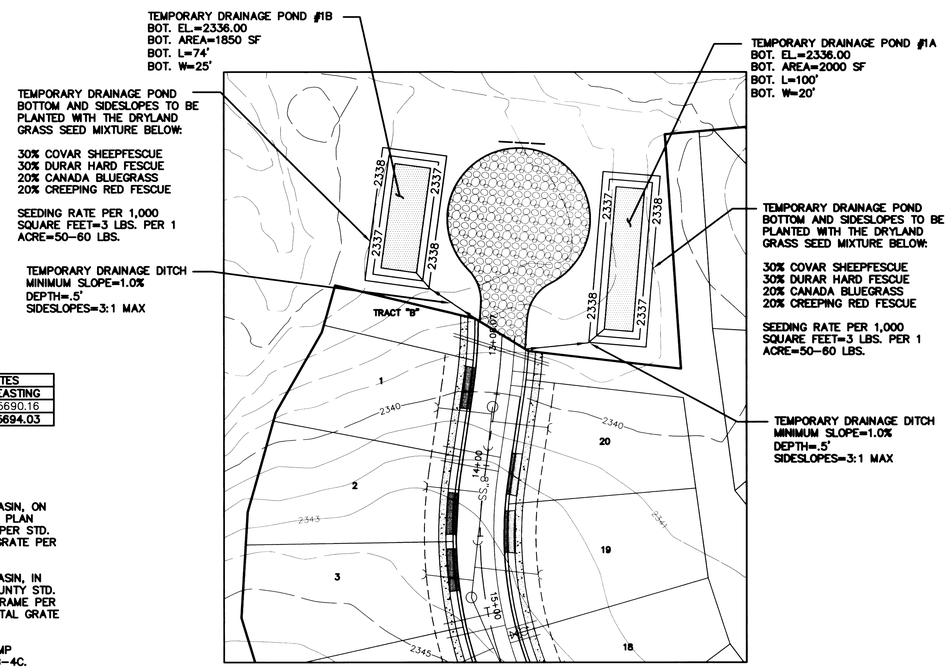
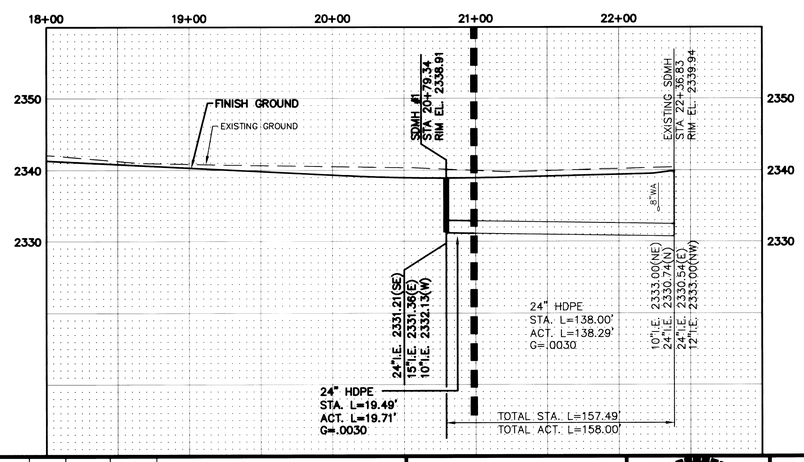


MANHOLE SCHEDULE		COORDINATES	
M.H. NO.	M.H. TYPE	NORTHING	EASTING
EXISTING SDMH	I-60	6232.75	5690.16
SDMH #1	**III-60**	**6222.65**	**5694.03**

NOTES:

1. SPOKANE COUNTY TYPE 1 CATCH BASIN, ON GRADE, PER SPOKANE COUNTY STD. PLAN B-4 WITH A TYPE 1 METAL FRAME PER STD. PLAN B-10 AND A TYPE 1 METAL GRATE PER STD. PLAN B-12.
2. SPOKANE COUNTY TYPE 1 CATCH BASIN, IN SUMP CONDITION, PER SPOKANE COUNTY STD. PLAN B-4 WITH A TYPE 2 METAL FRAME PER STD. PLAN B-11 AND A TYPE 3 METAL GRATE PER STANDARD PLAN B-14.
3. WSDOT TYPE 2 GRATE INLET, IN SUMP CONDITION PER WSDOT STD. PLAN B-4C. INLET TO BE INSTALLED WITH "NORMAL" ORIENTATION. FRAME AND VANED GRATES FOR TYPE 2 GRATE INLET PER WSDOT PLAN B-4D. ORIENT GRATES TO ACCOMMODATE FLOW FROM BOTH DIRECTIONS.
4. STORM DRAIN MANHOLE TYPE I-48 PER SPOKANE COUNTY STD. PLAN U-2.
5. STORM DRAIN MANHOLE TYPE III-48 PER SPOKANE COUNTY STD. PLAN U-5.
6. STORM DRAIN MANHOLE TYPE I-60 PER SPOKANE COUNTY STD. PLAN U-3.
7. STORM DRAIN MANHOLE TYPE III-60 PER SPOKANE COUNTY STD. PLAN U-6.





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PROJECT LANE MILES PRIVATE: —
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

No.	Date	By	Ckd.	Appr.	Revisions

Drawn:	DJJ	06/07/06
Designed:	BAN	06/07/06
Checked:	MAA	07/20/06

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 11/21/06 — EXPIRES 03/10/07

Taylor Engineering, Inc.
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W. 106 Mission Ave.
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SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

Developer's Approval: Richard P. Bahm President Date: 8/22/6

VERTICAL DATUM: "X" IN SIDEWALK @ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL.=2305.75 (NAVD 88)

CADD FILE NAME: 05081G-ST1(5).dwg

50 25 0 50 100
SCALE FEET

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

BRIGADOON ADDITION

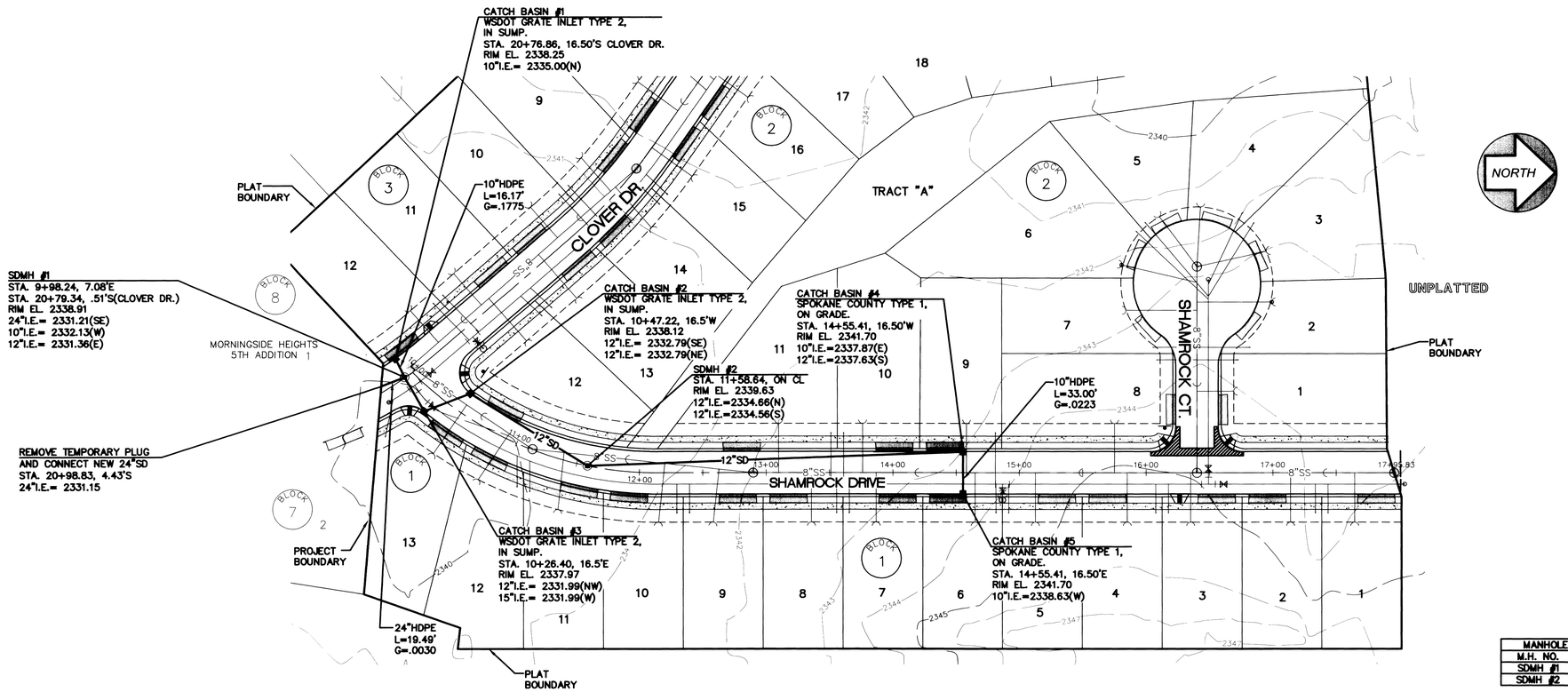
CLOVER DRIVE
STA. 20+79.34
CLOVER DRIVE
TEMPORARY DRAINAGE PONDS

STORM
SHEET 5 / 8

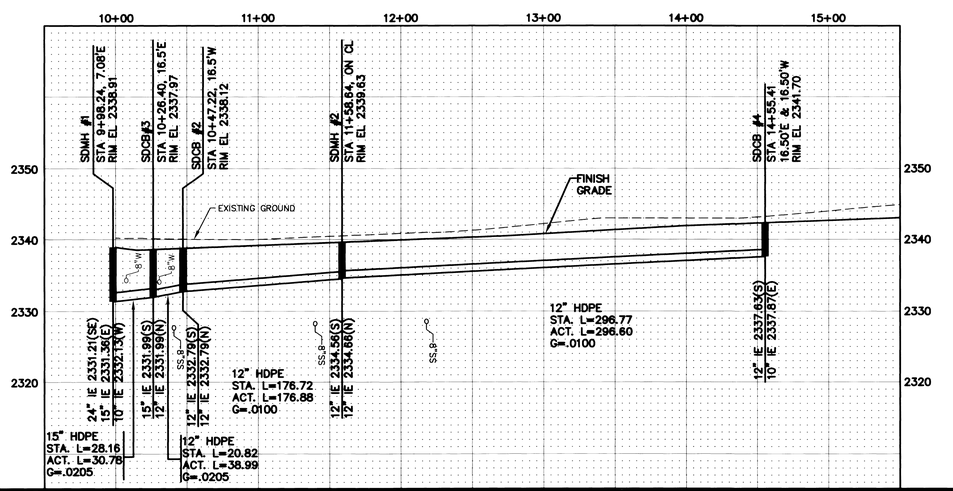
P-1962A Eng/Road/Drainage

SEC.30, T.25 N., R. 45 EAST, W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1-800-424-5555
CALL TWO BUSINESS DAYS BEFORE YOU DIG



MANHOLE SCHEDULE		COORDINATES	
M.H. NO.	M.H. TYPE	NORTHING	EASTING
SDMH #1	III-60	6222.65	5694.03
SDMH #2	III-48	6382.25	5770.27



NOTES:

1. SPOKANE COUNTY TYPE 1 CATCH BASIN, ON GRADE, PER SPOKANE COUNTY STD. PLAN B-4 WITH A TYPE 1 METAL FRAME PER STD. PLAN B-10 AND A TYPE 1 METAL GRATE PER STD. PLAN B-12.
2. SPOKANE COUNTY TYPE 1 CATCH BASIN, IN SUMP CONDITION, PER SPOKANE COUNTY STD. PLAN B-4 WITH A TYPE 2 METAL FRAME PER STD. PLAN B-11 AND A TYPE 3 METAL GRATE PER STANDARD PLAN B-14.
3. WSDOT TYPE 2 GRATE INLET, IN SUMP CONDITION PER WSDOT STD. PLAN B-4C. INLET TO BE INSTALLED WITH "NORMAL" ORIENTATION. FRAME AND VANED GRATES FOR TYPE 2 GRATE INLET PER WSDOT PLAN B-4D. ORIENT GRATES TO ACCOMMODATE FLOW FROM BOTH DIRECTIONS.
4. STORM DRAIN MANHOLE TYPE I-48 PER SPOKANE COUNTY STD. PLAN U-2.
5. STORM DRAIN MANHOLE TYPE III-48 PER SPOKANE COUNTY STD. PLAN U-5.
6. STORM DRAIN MANHOLE TYPE I-60 PER SPOKANE COUNTY STD. PLAN U-3.
7. STORM DRAIN MANHOLE TYPE III-60 PER SPOKANE COUNTY STD. PLAN U-6.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1962A
DATE ACCEPTED: 9/6/06
ACCEPTANCE EXPIRES: 9/6/08
PROJECT LANE MILES PUBLIC: 0.23
PROJECT LANE MILES PRIVATE: —
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Designed:	BAN	06/07/06
Checked:	MAA	07/20/06

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Developer's Approval: Richard G. Sahm Date: 8/22/6

VERTICAL DATUM: "X" IN SIDEWALK @ N.E. CORNER OF INTERSECTION OF WINDSOR DRIVE AND CHAPMAN ROAD. EL.=2305.75 (NAVD 88)

CADD FILE NAME: 05081G-ST2(6).dwg

50 25 0 50 100
SCALE 1" = 50' FEET

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

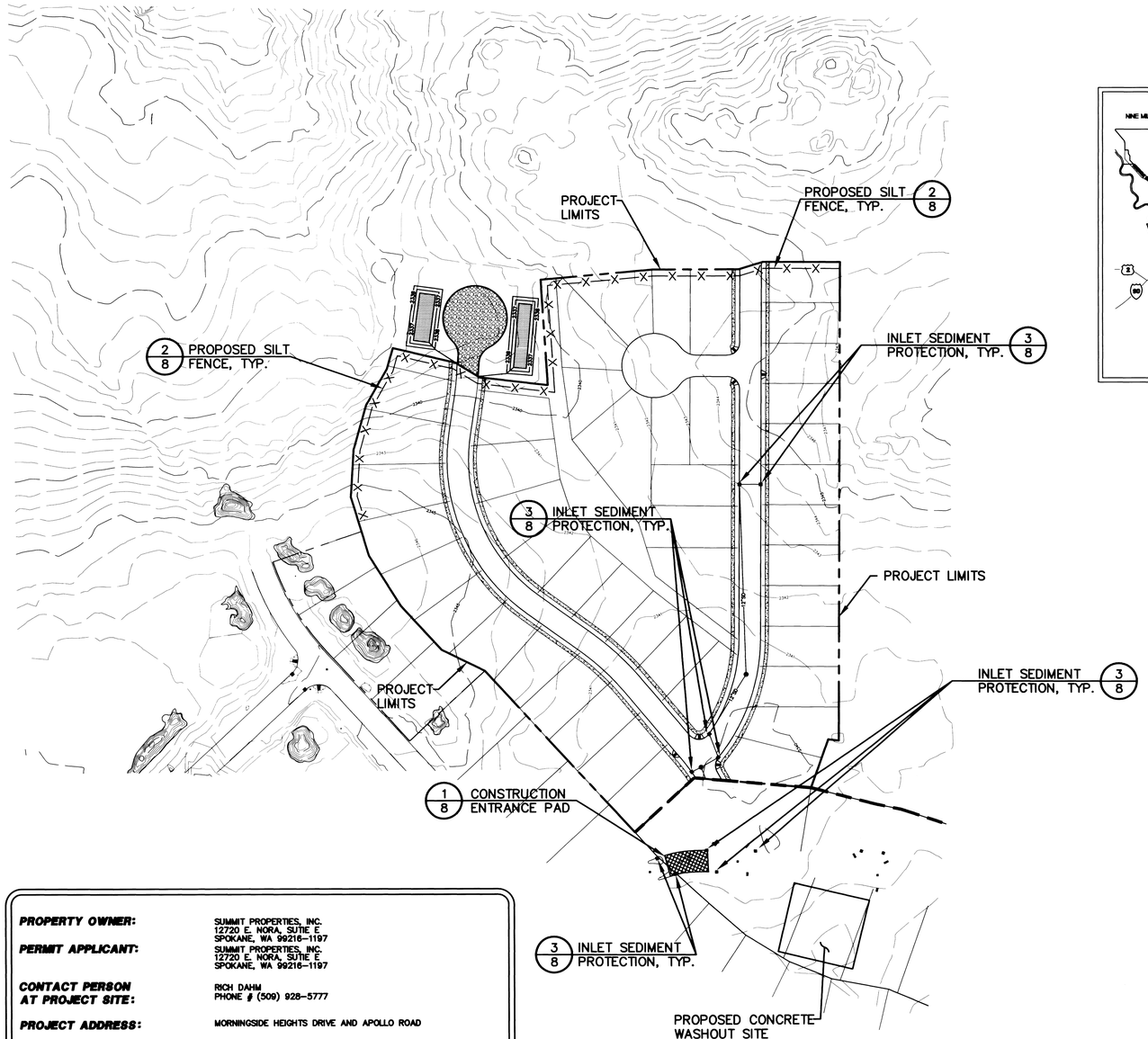
BRIGADOON ADDITION

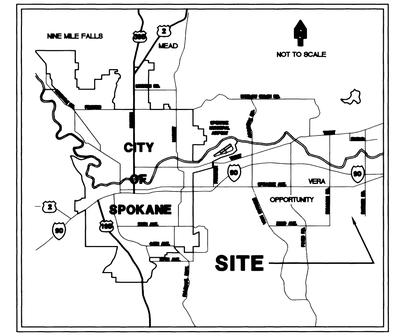
SHAMROCK DRIVE
STA. 9+97.23 TO STA. 17+95.83

STORM
SHEET 6 / 8

P-1962A Engineered Drawing

SEC.30, T.25 N., R. 45 EAST, W.M.





VICINITY MAP

NORTH

CONTOUR INTERVAL = 1 FOOT

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1-800-424-5555
CALL TWO BUSINESS DAYS BEFORE YOU DIG

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1962A
DATE ACCEPTED: 9/6/06
ACCEPTANCE EXPIRES: 9/6/08
PROJECT LANE MILES PUBLIC: 0.88
PROJECT LANE MILES PRIVATE: —
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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 ANTICIPATE 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 TEMPORARY GRAVEL CONSTRUCTION EXIT/ENTRANCE, SHEET 19.
5. 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.
6. 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.
7. 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 CONTRACTORS RESPONSIBILITY TO CLEAN OUT THE CATCH BASIN OR DRYWELL AND REPLACE THE FABRIC.
8. GEOTEXTILE FABRIC IS TO BE PLACED ON THE RIMS 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.
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 SEEDED 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.

PROPERTY OWNER:	SUMMIT PROPERTIES, INC. 12720 E. NORA, SUITE E SPOKANE, WA 99216-1197
PERMIT APPLICANT:	SUMMIT PROPERTIES, INC. 12720 E. NORA, SUITE E SPOKANE, WA 99216-1197
CONTACT PERSON AT PROJECT SITE:	RICH DAHM PHONE # (509) 928-5777
PROJECT ADDRESS:	MORNINGSIDE HEIGHTS DRIVE AND APOLLO ROAD
PROJECT DESCRIPTION:	CONTINUATION OF SINGLE FAMILY RESIDENTIAL DEVELOPMENT INCLUDING PRIVATE ASPHALT ROADS, SEWER AND WATER SYSTEMS
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 OF FLAT TO ROLLING PASTURE LAND INCLUDING AREAS OF MEADOW GRASS.
LIST OF ON-SITE SOILS:	BaB- BONG AND PHOEBE LOAMY SANDS MoC- MARBLE LOAMY SAND PsA- PHOEBE SANDY LOAM HvC- HESSELTINE VERY ROCKY COMPLEX
LEGAL DESCRIPTION:	SEE PLAT MAP.

* I, _____ CERTIFY THAT THIS PLAN MEETS THE ESC PLAN REQUIREMENTS AS LISTED IN CHAPTER 4.5 OF THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT.

No.	Date	By	Ckd.	Appr.	Revisions

		Date
Drawn:	DJJ	06/07/06
Designed:	BAN	06/07/06
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Developer's Approval: Richard N. Dahm President *Date:* 8/22/6

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CADD FILE NAME: 05081G-ERO(7).dwg

100 50 0 100 200
SCALE FEET

SCALE
HORIZ. 1" = 100'
VERT. N/A

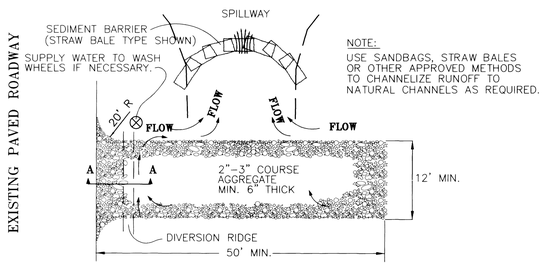
BRIGADOON ADDITION

EROSION CONTROL PLAN

STORM
SHEET 7/8

P-1962A England-Drainage

SECTION A-A



NOTE:
USE SANDBAGS, STRAW BALES OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF TO NATURAL CHANNELS AS REQUIRED.

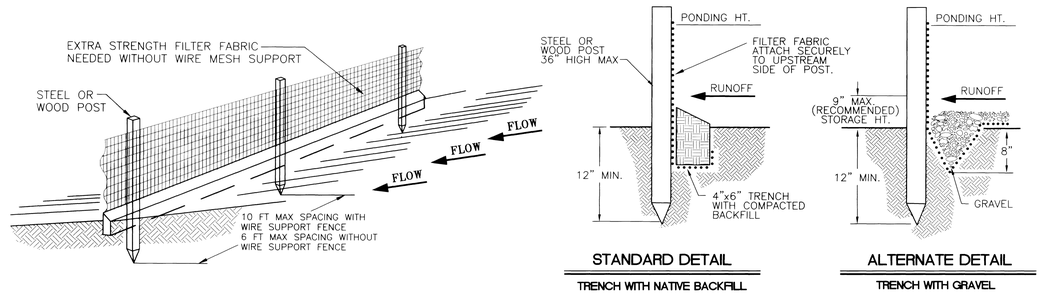
PLAN

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 STABLIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

1/7 TEMPORARY GRAVEL CONSTRUCTION EXIT/ENTRANCE

NOT TO SCALE



STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

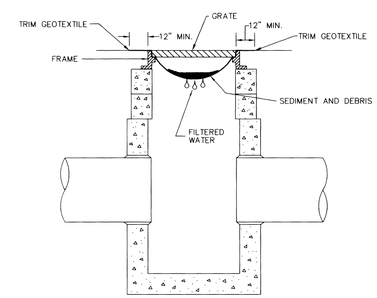
ALTERNATE DETAIL
TRENCH WITH GRAVEL

NOTE:

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.

2/7 SILT FENCE DETAIL

NOT TO SCALE



CROSS SECTION
NOT TO SCALE

NOTE:

1. PERFORM MAINTENANCE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 8-01.3(15).

3/7 STORM DRAIN INLET PROTECTION TYPE 1

NOT TO SCALE

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SCALE
HORIZ. N/A
VERT. N/A

BRIGADOON ADDITION

EROSION CONTROL DETAILS

STORM SHEET 8/8

P-1962A Eng Rad. Drainage