

# COVER SHEET FOR SUMMERWOOD SECOND ADDITION

## STREET AND DRAINAGE PLANS

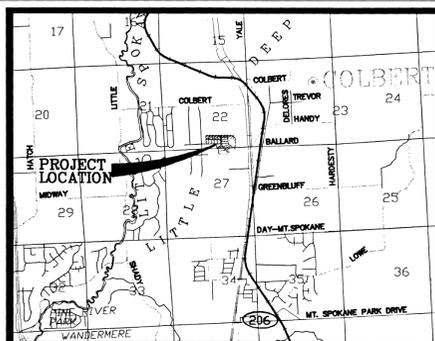
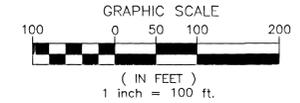
SE. 1/4 OF THE SW. 1/4 OF S. 22, T. 27 N., R. 43 E., W.M.  
SPOKANE COUNTY, WASHINGTON

NAVD 88

BASED ON NGS BENCHMARK DESIGNATED "V-484"  
LOCATED NE OF THE INTERSECTION OF SR 24 &  
GREEN BLUFF ROAD, EL=1870.37.  
PROJECT TBM-"X" IN BONNET BOLT OF FIRE  
HYDRANT AT NE CORNER OF BRIDLE TRAIL ROAD  
AND SADDLE HILL ROAD, EL=1827.51.

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

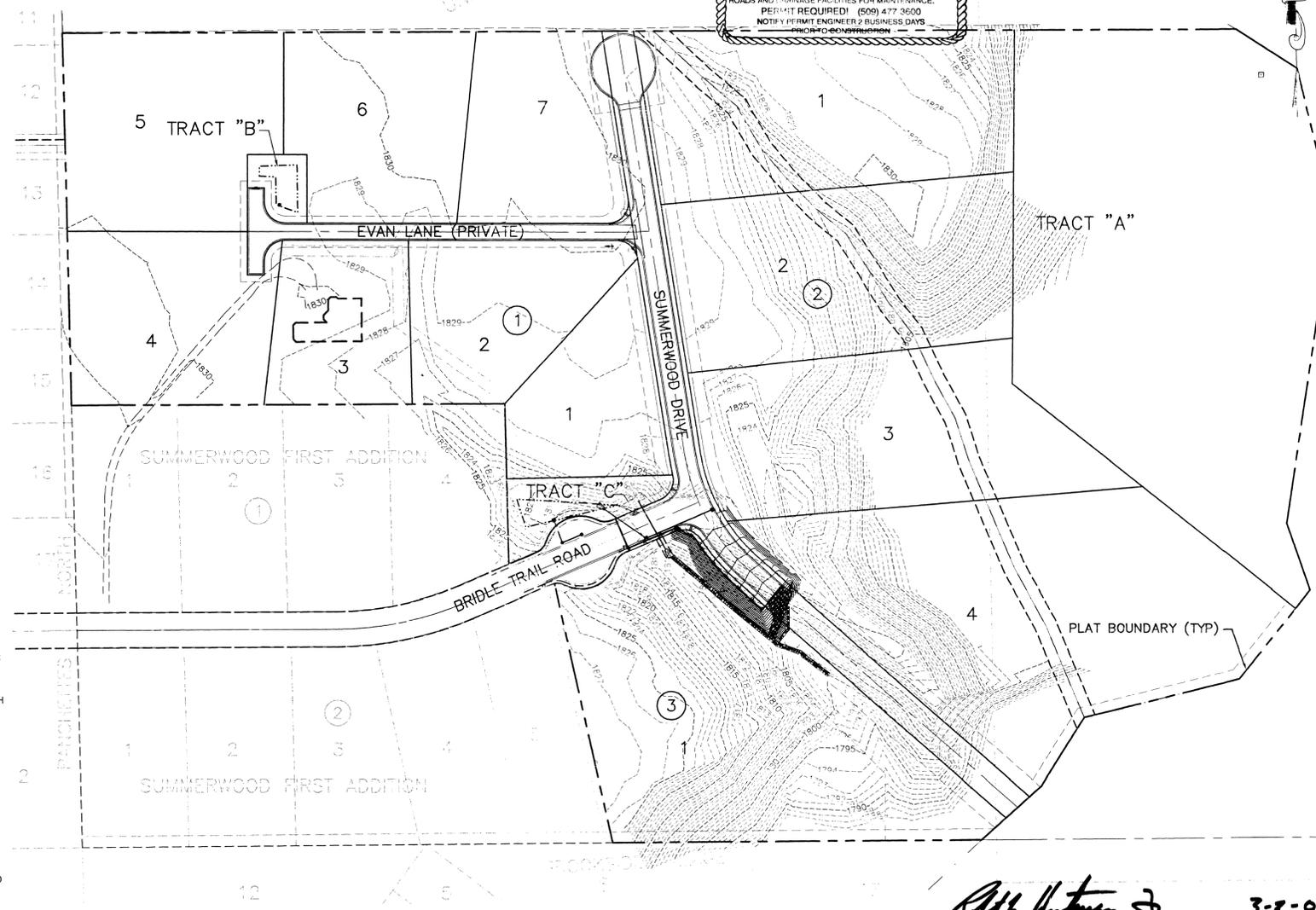
SPOKANE COUNTY ENGINEERS OFFICE  
OFFICIAL PUBLIC DOCUMENT ORIGINAL  
**CONSTRUCTION PLANS**  
PROJECT # P1656A  
DATE ACCEPTED: 3/13/2002  
ACCEPTANCE EXPIRES: 3/13/2004  
PROJECT LAND TYPE: PUBLIC  
CONSTRUCTION TYPE: PRIVATE  
RECORD DRAWING: YES  
TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE  
ROADS AND UTILITY FACILITIES FOR MAINTENANCE.  
PERMIT REQUIRED! (509) 477-3600  
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS  
PRIOR TO CONSTRUCTION



VICINITY MAP

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EXISTING	GENERAL	PROPOSED
---	ROADWAY CENTER LINE	---
---	RIGHT OF WAY LINE	---
---	PROPERTY LINE	---
---	EASEMENT LINE	---
---	FENCE	---
---	CURB	---
---	PAVEMENT	---
---	GRAVEL	---
---	CONCRETE	---
---	BUILDINGS & STRUCTURES	---
---	WATER	---
---	WATER LINE	---
---	VALVE	---
FH	FIRE HYDRANT	---
WS	SERVICE	---
---	STORM DRAINAGE	---
---	DRAINAGE LINE	---
DW	MANHOLE	---
CB	DRYWELL	---
---	CATCH BASIN	---
---	DITCH	---
---	TELEPHONE - POWER	---
PP	POWER OR TELEPHONE POLE	---



### STORM DRAINAGE NOTES

- SEE STREET PLAN AND PROFILE SHEETS FOR DRYWELL AND CATCH BASIN TYPES AND LOCATIONS.
  - PONDS SHALL BE CONSTRUCTED PER THE REQUIREMENTS OF THESE DRAWINGS INCLUDING GRADING, SOD, AND DRYWELL INSTALLATION. ALL PONDS WITHIN TRACTS SHALL INCLUDE AN IRRIGATION SYSTEM. ALL IRRIGATION SHALL CONFORM TO SPOKANE COUNTY POND IRRIGATION SYSTEM GUIDELINES.
  - ALL "208" PONDS 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 POND CONSTRUCTION.
  - INSTALL "AMOCO" #4545 FILTER FABRIC (OR APPROVED EQUAL) IN ALL DRYWELLS. SEE SPOKANE COUNTY STANDARDS (2001 EDITION) SHEET B-1a FOR INSTALLATION LOCATIONS.
  - ALL PONDS 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 POND GRADE WORK, INSTALL THE IRRIGATION SYSTEM, AND PLACE THE SOD WITHIN THE PONDS 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.

### 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 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 COUNTY INSPECTOR. INSPECTION SERVICES AND CONSTRUCTION CERTIFICATION TO BE PROVIDED BY ENGINEER OF RECORD.
- 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 THE UTILITIES. PRIOR TO CONSTRUCTION, 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 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 COUNTY AND ALL UTILITY COMPANIES INVOLVED 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.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH M.U.T.C.D. TO THE APPROPRIATE RIGHT-OF-WAY AUTHORITY COUNTY 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 THE CONSTRUCTION ACTIVITIES.
- 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 AND RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE.
- 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 COUNTY INSPECTOR AT ALL TIMES.
- DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE CONSULTANT ENGINEER FOR CLARIFICATION, AND ANNOTATE THE DIMENSION ON THE RECORD DRAWINGS.
- ALL STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED, AT THE LIMITS OF CONSTRUCTION, PRIOR TO ANY OTHER GROUND-DISTURBING ACTIVITY. ALL EROSION CONTROL 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.
- ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF THE COUNTY ENGINEERING DEPARTMENT STANDARD DETAILS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL SUBMIT A PHASING PLAN FOR ALL WORK IN PUBLIC ROADS AND R.O.W.'S TO THE COUNTY BEFORE BEGINNING ANY WORK ON THESE ROADS. CONTRACTOR SHALL BEGIN WORK ONLY AFTER THE COUNTY APPROVES THE PHASING PLAN, AND A PRECONSTRUCTION MEETING IS HELD BETWEEN THE COUNTY ENGINEER AND THE CONTRACTOR.
- ALL OPERATIONS CONDUCTED ON THE PREMISES, 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 PERIOD BETWEEN 6:00 A.M. AND 10:00 P.M. EVERYDAY UNLESS OTHERWISE APPROVED BY THE COUNTY.
- NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE COUNTY ENGINEER AND NOTIFICATION OF THE ENGINEER OF RECORD.
- 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.

### STREET GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION 2001", 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.
- FOR ANY CURB GRADES LESS THAN 0.8% (0.0080 FT./FT.), A WASHINGTON STATE PROFESSIONAL LAND SURVEYOR SHALL VERIFY THAT THE CURB FORMS ARE AT THE GRADE NOTED ON THE APPROVED PLANS, PRIOR TO PLACEMENT OF CURB CONCRETE. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING AND COORDINATING WORK WITH THE PROFESSIONAL LAND SURVEYOR.
- IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER, SUSAN MURPHY, @ 458-6840, THE SITE/PROJECT INSPECTING ENGINEER OR HIS REPRESENTATIVE, S.T.I. PAUL NELSON @ 534-9711 AND THE SPOKANE COUNTY ENGINEER'S OFFICE, CONSTRUCTION ENGINEER, @ 477-3600.

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.

*Alan Hartman*  
DEVELOPER'S APPROVAL  
3-8-02  
DATE

- FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC, "AMOCO" 4545 OR APPROVED EQUIVALENT, BETWEEN THE DRYWELL BARREL AND THE WASHED DRAINROCK AND BETWEEN THE WASHED DRAINROCK AND NATIVE SOILS PER SPOKANE COUNTY STANDARD DETAIL B-1.
- 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 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.
- ALL DRYWELL CONNECTION PIPES SHALL BE PLACED BELOW THE DRYWELL CONE AND SHALL FLOW AS DIRECTED IN THE PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THE ESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED OR CONSTRUCTED, UNLESS SPECIFICALLY NOTED OTHERWISE.

### \*DRYLAND GRASS SEED MIX

SPOKANE COUNTY PUBLIC WORKS, FEBRUARY 1998  
GRASS SEED: PROVIDE FRESH, CLEAN, NEW CROP SEED COMPLYING WITH TOLERANCE OF PURITY AND GERMINATION ESTABLISHED BY THE OFFICIAL SEED ANALYSIS OF NORTH AMERICA. PROVIDE SEED MIXTURE COMPOSED OF GRASS SPECIES AND PERCENTAGES AS FOLLOWS:  
20% ELKA PERENNIAL RYE  
20% DURAR HARD FESCUE  
45% COVAR SHEEP/FESCUE  
15% REUBENS CANADIAN BLUEGRASS  
PROVIDE MIXTURE COMPOSED OF GRASS SEED AND FERTILIZER IN PERCENTAGES AS FOLLOWS:  
GRASS SEED: 90 LBS. PER ACRE  
FERTILIZER: 16-16-16 TIMED RELEASE COMPOSITION, 300 LBS. PER ACRE  
ALL SEEDING OF SLOPES SHALL BE DONE IN ACCORDANCE WITH THE W.S.D.O.T. STANDARD SPECIFICATIONS, SEC. 8-01.

Associates, Inc.  
Planning  
Engineering  
Architecture  
Landscape Architecture  
Land Surveying  
707 W. 7th Avenue, Suite 200  
Spokane, WA 99201  
Phone: (509) 458-6840  
Fax: (509) 458-6844

DAVID N. RANDALL  
P.E.  
REGISTERED PROFESSIONAL ENGINEER  
NO. 25984  
EXPIRES 07/04/02

PREPARED UNDER THE DIRECT SUPERVISION OF DAVID N. RANDALL, P.E. WASHINGTON REGISTRATION NO. 25984 FOR AND ON BEHALF OF CLC ASSOCIATES, INC.

Date	Description
11/20/01	ORIGINAL PREPARATION
1/16/02	FIRST SUBMITTAL
2/18/02	SECOND SUBMITTAL
03/04/02	FINAL SUBMITTAL

Project Number: DN-1656.92  
CLC Job Number: S990274  
Drawn By: SMM  
Designed By: SKM  
Checked By: DNR  
THESE PLANS ARE INSTRUMENTS OF PROFESSIONAL SERVICE AND ARE PROTECTED BY COUNTY LAW. REVISIONS AND OTHER REVISIONS MUST BE APPROVED BY THE WRITER. THEY MAY NOT BE REPRODUCED OR USED FOR ANY PURPOSE WITHOUT THE WRITTEN CONSENT OF CLC ASSOCIATES, INC. (A LICENSED LAND CONSULTANT, INC.)

STREET CONSTRUCTION PLANS  
**SUMMERWOOD SECOND ADDITION**  
COVER SHEET  
SPOKANE COUNTY, WASHINGTON

Sheet Title  
COVER SHEET  
1 of 4  
Sheet Number

P1656A  
Plan Road & Drainage

SE. 1/4 OF THE SW. 1/4 OF S. 22, T. 27 N., R. 43 E., W.M.  
SPOKANE COUNTY, WASHINGTON

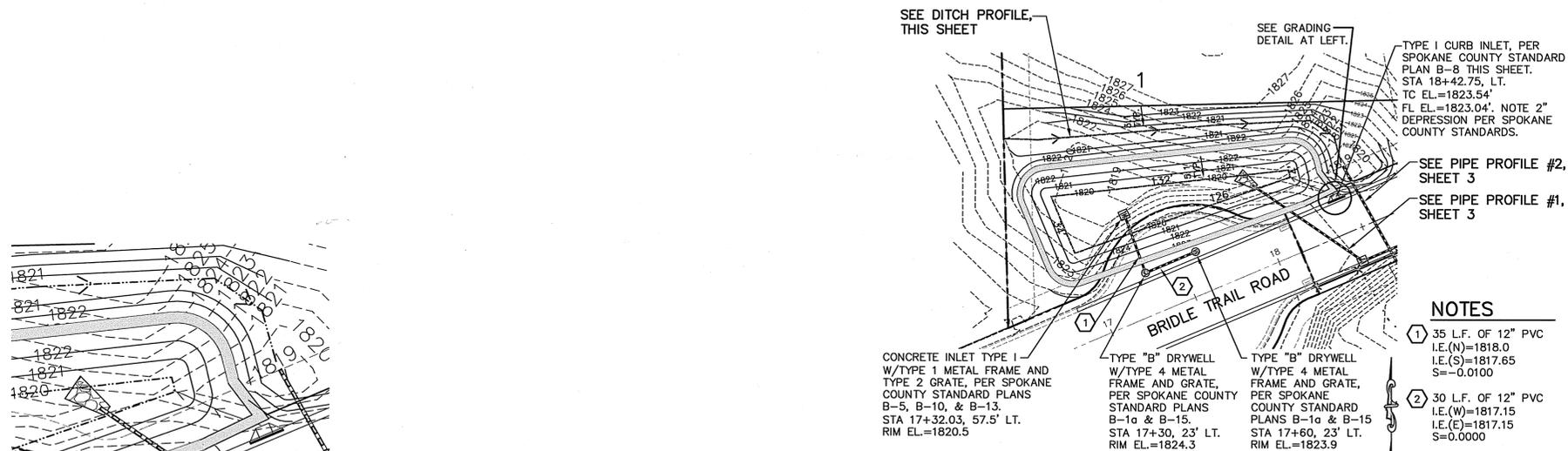
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Fax: (509) 458-6844

SPOKANE COUNTY ENGINEERS OFFICE  
OFFICIAL PUBLIC DOCUMENT ORIGINAL  
**CONSTRUCTION PLANS**  
PROJECT #: P1656A  
DATE ACCEPTED: 7/10/2002  
ACCEPTANCE EXPIRES: 3/12/2004  
PROJECT LANE MILES PUBLIC: 0.22  
PROJECT LANE MILES PRIVATE: 0.11  
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  
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DAVID N. RANDALL  
STATE OF WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
26984  
EXPIRES 07/04/02

PREPARED UNDER THE DIRECT  
SUPERVISION OF  
DAVID N. RANDALL, P.E.  
WASHINGTON REGISTRATION  
NO. 26984  
FOR AND ON BEHALF OF  
CLC ASSOCIATES, INC.

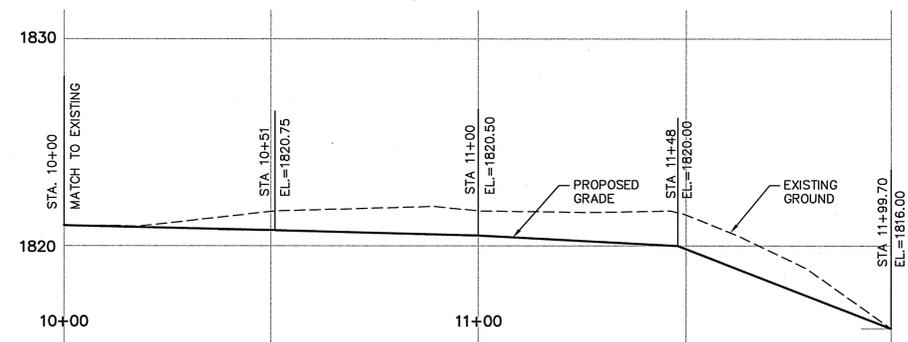


**NOTES**

- 1 35 L.F. OF 12" PVC  
I.E.(N)=1818.0  
I.E.(S)=1817.65  
S=-0.0100
- 2 30 L.F. OF 12" PVC  
I.E.(W)=1817.15  
I.E.(E)=1817.15  
S=0.0000

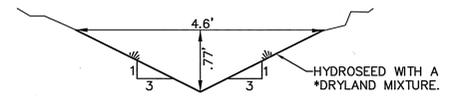
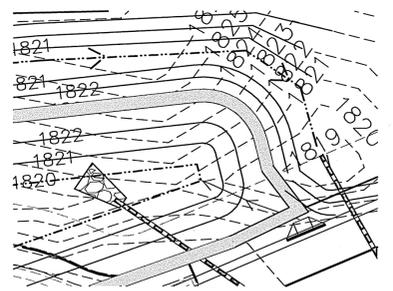
**POND C DETAIL**

1"=40'  
POND BOTTOM EL.=1820.0  
POND BOTTOM AREA=2416 S.F.  
PERIMETER = 296 L.F.  
PROVIDED STORM VOLUME=3156 C.F.  
MIN. BERM EL.=1823.0



**GRADING DETAIL**

NOT TO SCALE



**\*DRYLAND GRASS SEED MIX**

SPOKANE COUNTY PUBLIC WORKS, FEBRUARY 1998  
GRASS SEED: PROVIDE FRESH, CLEAN, NEW CROP SEED COMPLYING WITH TOLERANCE OF PURITY AND GERMINATION ESTABLISHED BY THE OFFICIAL SEED ANALYSIS OF NORTH AMERICA. PROVIDE SEED MIXTURE COMPOSED OF GRASS SPECIES AND PERCENTAGES AS FOLLOWS:  
20% ELKA PERENNIAL RYE  
20% DURAR HARD FESCUE  
45% COVAR SHEEP/FESCUE  
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GRASS SEED: 90 LBS. PER ACRE  
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ALL SEEDING OF SLOPES SHALL BE DONE IN ACCORDANCE WITH THE W.S.D.O.T. STANDARD SPECIFICATIONS, SEC. 8-01.

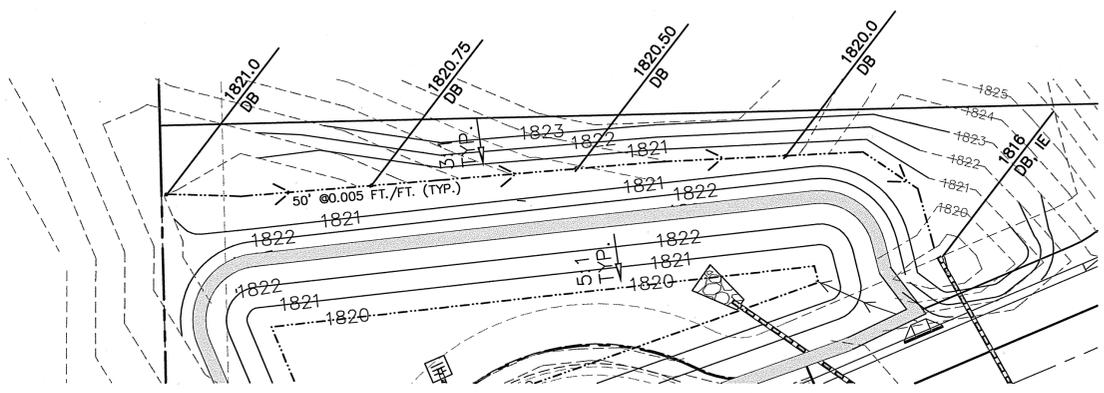
**BYPASS DITCH**

NO SCALE



**BYPASS DITCH DETAIL**

1"=20'



Date	Description
11/20/01	ORIGINAL PREPARATION
1/16/02	FIRST SUBMITTAL
1/16/02	SECOND SUBMITTAL
02/07/02	REVISED POND 'C' DETAIL
04/08/02	REVISED POND 'C' DETAIL

Project Number: PN-1656-92  
CLC Job Number: 99274  
Drawn By: SMM  
Designed By: SKM  
Checked By: DNR  
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STREET CONSTRUCTION PLANS  
SUMMERWOOD SECOND ADDITION  
DETAILS  
SPOKANE COUNTY, WASHINGTON

Sheet Title  
DETAILS  
4A of 4  
Sheet Number

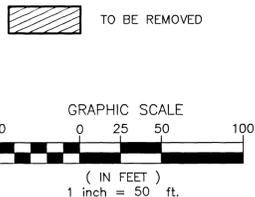
*David N. Randall*  
DEVELOPER'S APPROVAL

6-26-02  
DATE

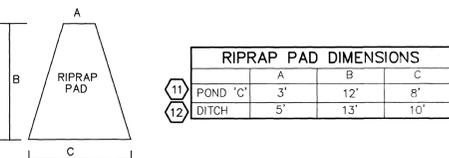
P1656A Revised Eng Road+Drainage

SE. 1/4 OF THE SW. 1/4 OF S. 22, T. 27 N., R. 43 E., W.M.  
SPOKANE COUNTY, WASHINGTON

LEGEND



CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	275.00	191.07	99.58	187.25	39°48'36"
C2	200.00	22.63	11.33	22.62	6°28'57"
C10	30.00	42.18	25.42	38.79	80°33'44"
C11	30.00	42.76	25.93	39.23	81°40'04"
C12	30.00	42.39	25.60	38.95	80°57'21"
C13	30.00	51.86	35.15	45.64	99°02'39"
C14	30.00	47.12	30.00	42.43	90°00'00"



**SPOKANE COUNTY ENGINEERS OFFICE**  
**OFFICIAL PUBLIC DOCUMENT ORIGINAL CONSTRUCTION PLANS**  
PROJECT #: 1656A  
DATE ACCEPTED: 3/12/2002  
ACCEPTANCE EXPIRES: 3/12/2004  
PROJECT LANE MILES PUBLIC: 0.24  
PROJECT LANE MILES PRIVATE: 0.11  
CONSTRUCTION DOCUMENT AND CERTIFIED RECORD DRAWINGS, AS BUILT, ARE REQUIRED PRIOR TO CITY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.  
PERMIT REQUIRED: (509) 477-0000  
NO CITY PERMIT ENGINEER BUSINESS HOURS PRIOR TO CONSTRUCTION.

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

**CLC Associates, Inc.**  
Planning  
Engineering  
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Landscape Architecture  
Land Surveying  
707 W. 7th Avenue, Suite 200  
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Phone: (509) 456-1840  
Fax: (509) 456-1844

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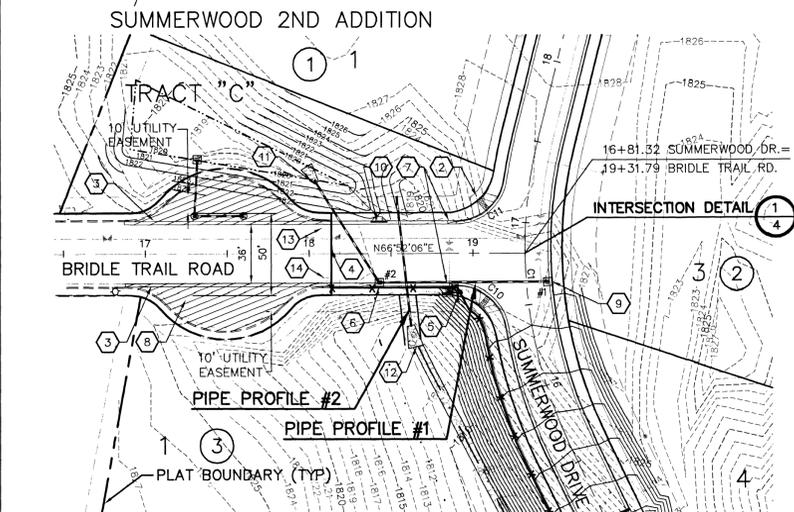
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11/20/01	ORIGINAL PREPARATION
1/16/02	FIRST SUBMITTAL
2/19/02	SECOND SUBMITTAL
03/07/02	FINAL SUBMITTAL

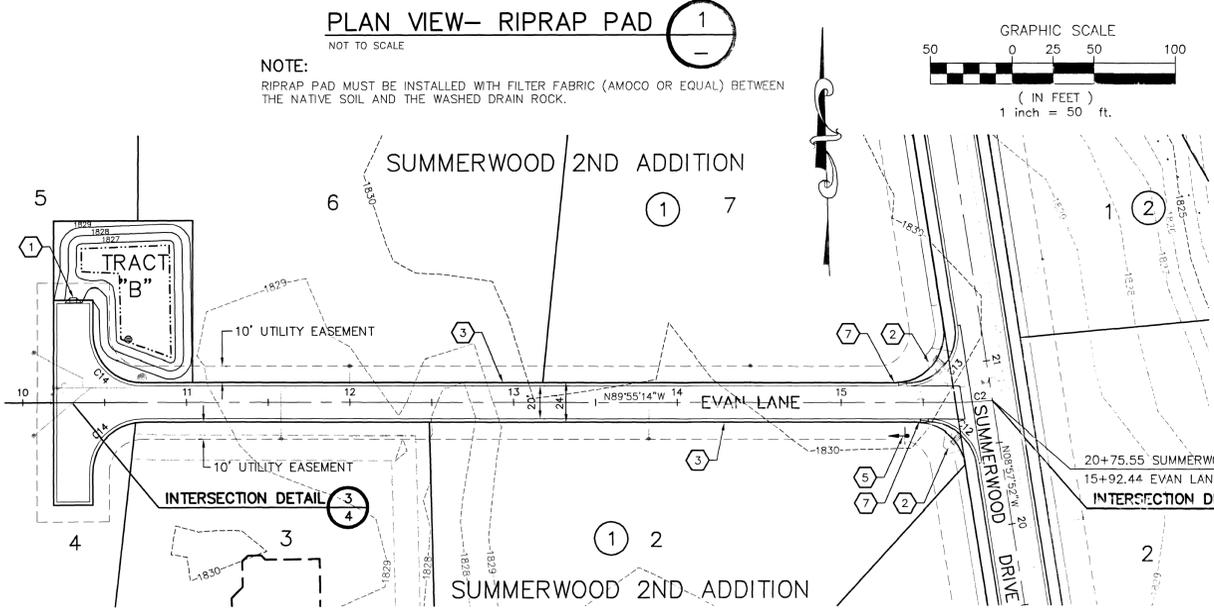
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Drawn By: MJP/SMM  
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**STREET CONSTRUCTION PLANS**  
**SUMMERWOOD SECOND ADDITION**  
**BRIDLE TRAIL ROAD STA 18+13.55 TO 19+31.79**  
**EVAN LANE STA 10+20+80 TO 15+92.44**  
SPOKANE COUNTY, WASHINGTON

Sheet Title  
**BRIDLE TRAIL ROAD AND EVAN LANE PLAN AND PROFILE**  
3 of 4  
Sheet Number



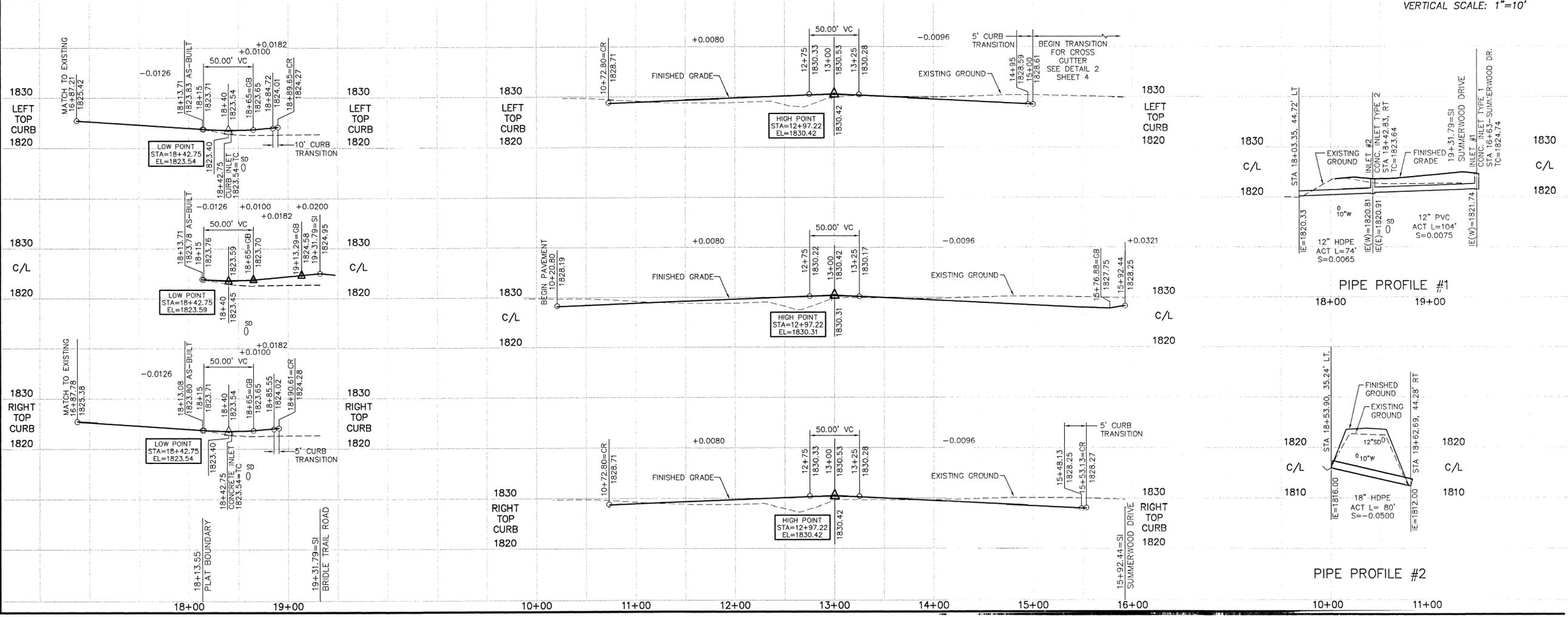
NAV 88  
BASED ON NGS BENCHMARK DESIGNATED "V-484" LOCATED NE OF THE INTERSECTION OF SR 24 & GREEN BLUFF ROAD, EL=1870.37.  
PROJECT TBM-"X" IN BONNET BOLT OF FIRE HYDRANT AT NE CORNER OF BRIDLE TRAIL ROAD AND SADDLE HILL ROAD, EL=1827.51.



NOTE:  
RIPRAP PAD MUST BE INSTALLED WITH FILTER FABRIC (AMOCO OR EQUAL) BETWEEN THE NATIVE SOIL AND THE WASHED DRAIN ROCK.

- CONSTRUCTION NOTES:**
- SEE DETAIL 5, SHEET 4.
  - CURB RAMP DESIGN PER SPOKANE COUNTY STANDARD PLAN A-5.
  - TYPE "R" CURB AND GUTTER PER SPOKANE COUNTY STANDARD PLAN A-3.
  - SAWCUT AND MATCH TO EXISTING. CONTRACTOR TO VERIFY EXISTING CURB ELEVATIONS PRIOR TO CONSTRUCTION.
  - STREET SIGN PER SPOKANE COUNTY STANDARDS AND M.U.T.C.D.
  - CONCRETE INLET TYPE 2 W/TYPE 2 METAL FRAME & TYPE 3 GRATE, PER SPOKANE COUNTY STANDARD PLAN B-5, B-11, & B-14. SEE GUTTER INLET DETAIL 7, SHEET 4.
  - CURB TRANSITION FROM TYPE "R" TO TYPE "B". SEE DETAIL 4, SHEET 4.
  - REMOVE CURB, SAWCUT PAVEMENT, AND REMOVE AS SHOWN; INSTALL CURB TO MATCH EXISTING PER CROSS SECTION ON SHEET 4.
  - CONCRETE INLET TYPE 1, TYPE 2 METAL FRAME, & TYPE 1 METAL GRATE, PER SPOKANE COUNTY STANDARD PLAN B-5, B-11, & B-12. SEE PIPE PROFILE #1 THIS SHEET.
  - CURB INLET TYPE 1, PER SPOKANE COUNTY STANDARD PLAN B-8. SEE DETAIL 6 & 8 SHEET 4 FOR MORE INFORMATION.
  - RIPRAP OUTFALL: 1' THICKNESS, 11" MINIMUM STONE SIZE. SEE DETAIL 1 THIS SHEET FOR DIMENSIONS.
  - RIPRAP OUTFALL: 1' THICKNESS, 11" MINIMUM STONE SIZE. SEE DETAIL 1 THIS SHEET FOR DIMENSIONS.
  - EXISTING TYPE B DRYWELL W/TYPE 1 FRAME AND TYPE 2 GRATE. (DESIGN)
  - EXISTING TYPE 1 INLET W/TYPE 1 FRAME AND TYPE 2 GRATE W/12" CMP FROM INLET TO DRYWELL AT 2% MIN. SLOPE, L=34'. (DESIGN)

*[Signature]* 3-8-02  
DEVELOPER'S APPROVAL DATE



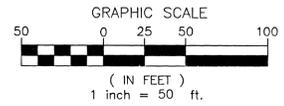
DAVID N. RANDALL

SE. 1/4 OF THE SW. 1/4 OF S. 22, T. 27 N., R. 43 E., W.M.  
SPOKANE COUNTY, WASHINGTON

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	DELTA	
C1	275.00	191.07	99.58	187.25	39°48'36"
C10	30.00	42.18	25.42	38.79	80°33'44"
C11	30.00	42.76	25.93	39.23	81°40'04"
C12	30.00	42.39	25.60	38.95	80°57'21"
C13	30.00	51.86	35.15	45.64	99°02'39"
C15	30.00	28.32	15.31	27.28	54°04'45"

CONSTRUCTION NOTES:

- 5' SIDEWALK PER SPOKANE COUNTY STANDARD PLAN A-1.
- CURB RAMP DESIGN PER SPOKANE COUNTY STANDARD PLAN A-5.
- TYPE "B" CURB AND GUTTER PER SPOKANE COUNTY STANDARD PLAN A-3.
- CONCRETE GUTTER TYPE 1, CASE 2, PER SPOKANE COUNTY STANDARD PLAN B-18.
- CONCRETE INLET TYPE 1, PER SPOKANE COUNTY STANDARD PLAN B-5. SEE SHEET 3 FOR STORM DRAINAGE INFORMATION.
- FULL CUL-DE-SAC, PER SPOKANE COUNTY STANDARD PLAN A-10 WITH TYPE 'B' CURB AND GUTTER; SEE SUMMERWOOD DRIVE CROSS SECTION FOR PAVEMENT INFORMATION.
- CONCRETE BARRIER TYPE 2, PER WSDOT STANDARD PLAN C-8C.
- DRAINAGE CHANNEL TO BE RECONSTRUCTED PER FINISHED CONTOURS. SEE DRAINAGE CHANNEL DETAIL 2 ON THIS SHEET.
- FILL SLOPES ARE TO BE COMPACTED IN ACCORDANCE WITH SECTION 2-03.3(14)-METHOD B OF THE WSDOT STANDARD SPECIFICATIONS FOR COMPACTING EARTH EMBANKMENTS. SLOPES ARE TO BE SEEDED WITH DRYLAND GRASS MIXTURE PER THE SEED MIX ON SHEET 1.
- PLACE MINIMUM 3' X 45' X 1' DEEP RIPRAP FROM CATCH POINT UPSLOPE FOR SLOPE STABILIZATION PRIOR TO SEEDING.



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

Associates, Inc.  
Planning  
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Landscape Architecture  
Land Surveying  
207 W. 7th Avenue, Suite 200  
Spokane, WA 99204  
Phone: (509) 458-6840  
Fax: (509) 458-6844

DAVID N. RANDALL  
P.E.  
REGISTERED PROFESSIONAL ENGINEER  
26984  
EXPIRES 07/04/02

PREPARED UNDER THE DIRECT SUPERVISION OF DAVID N. RANDALL, P.E. WASHINGTON REGISTRATION NO. 26984 FOR AND ON BEHALF OF CLC ASSOCIATES, INC.

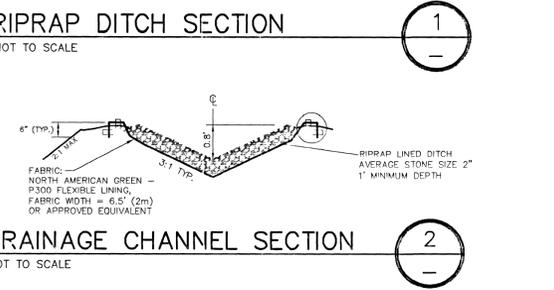
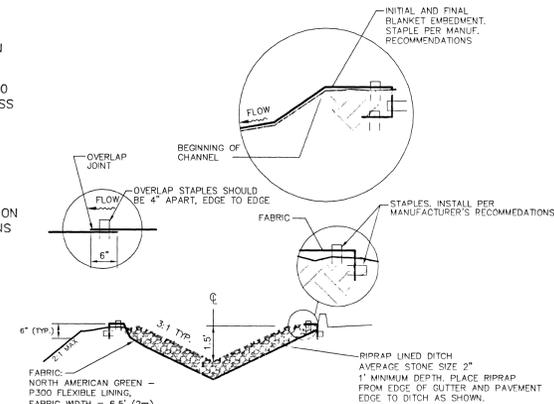
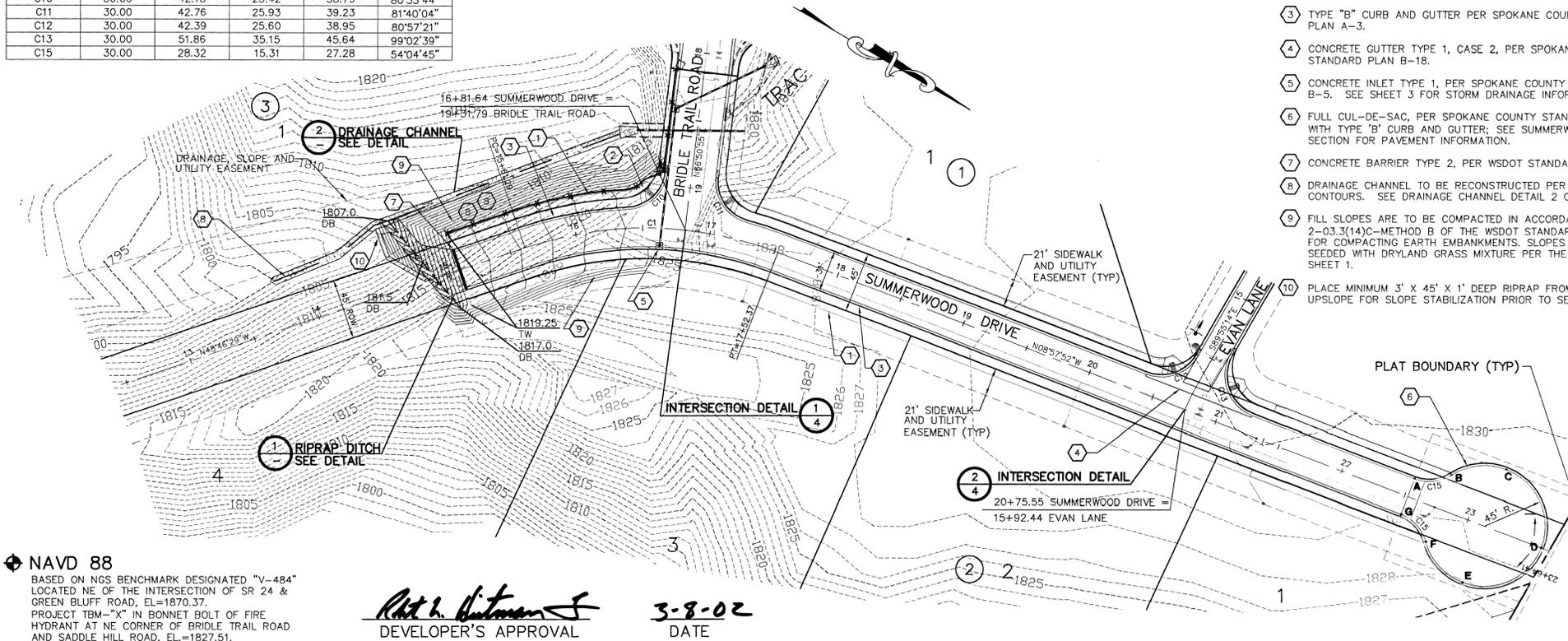
Date	Description
11/20/01	ORIGINAL PREPARATION
1/16/02	FIRST SUBMITTAL
2/19/02	SECOND SUBMITTAL
3/04/02	FINAL SUBMITTAL

Project Number: DN-1656.92  
CLC Job Number: S990274  
Drawn By: MJP,SKM  
Designed By: SKM  
Checked By: DNR

THESE PLANS ARE INSTRUMENTS OF PROFESSIONAL SERVICE AND ARE PREPARED BY COMPLIANCE WITH STATUTORY AND OTHER RELEVANT RULES, REGULATIONS AND ORDINANCES. THEY MAY NOT BE REPRODUCED OR USED FOR ANY PURPOSE WITHOUT THE WRITTEN CONSENT OF CLC ASSOCIATES, INC. (AN AFFILIATE OF COLORADO LAND CONSULTANTS, INC.)

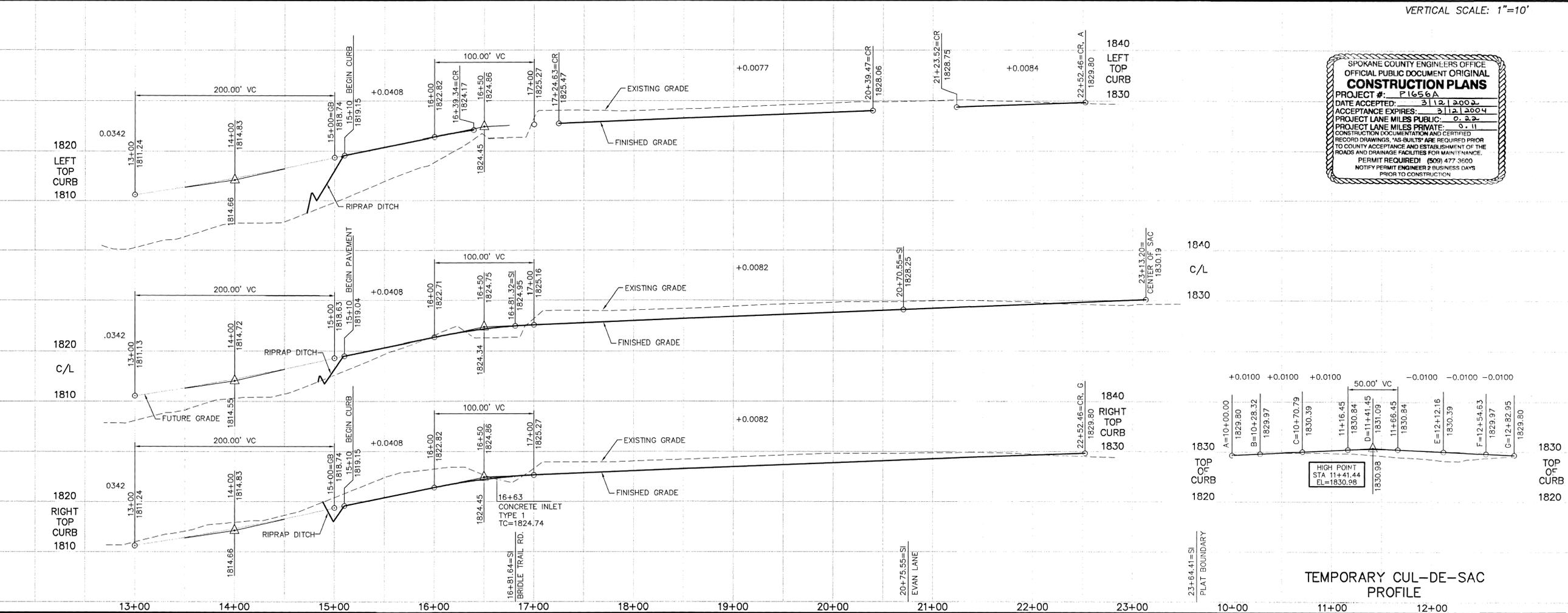
STREET CONSTRUCTION PLANS  
**SUMMERWOOD SECOND ADDITION**  
**SUMMERWOOD DRIVE**  
**STA 13+00 TO STA 23+64.41**  
SPOKANE COUNTY, WASHINGTON

Sheet Title  
**SUMMERWOOD DRIVE PLAN AND PROFILE**  
**2 of 4**  
Sheet Number



NAVD 88  
BASED ON NGS BENCHMARK DESIGNATED "V-484" LOCATED NE OF THE INTERSECTION OF SR 24 & GREEN BLUFF ROAD, EL=1870.37.  
PROJECT TBM-"X" IN BONNET BOLT OF FIRE HYDRANT AT NE CORNER OF BRIDLE TRAIL ROAD AND SADDLE HILL ROAD, EL=1827.51.

*Robert H. Hartman*  
DEVELOPER'S APPROVAL  
3-8-02  
DATE



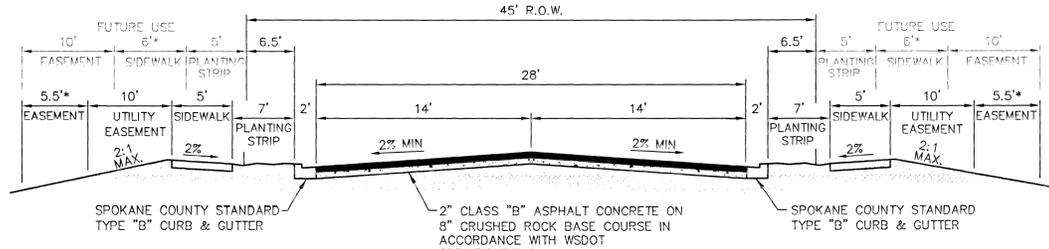
SPOKANE COUNTY ENGINEERS OFFICE  
OFFICIAL PUBLIC DOCUMENT ORIGINAL  
**CONSTRUCTION PLANS**  
PROJECT #: P1656A  
DATE ACCEPTED: 3/12/2002  
ACCEPTANCE EXPIRES: 3/12/2004  
PROJECT LANE MILES PUBLIC: 0.23  
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY 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

TEMPORARY CUL-DE-SAC  
PROFILE

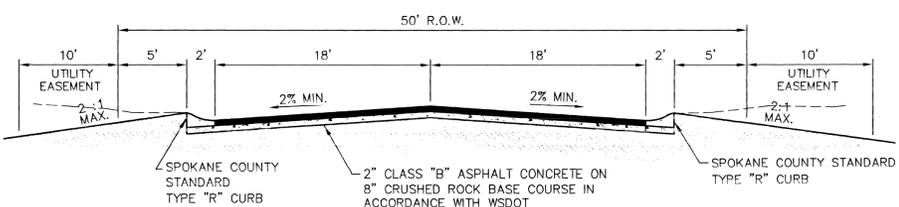
SE. 1/4 OF THE SW. 1/4 OF S. 22, T. 27 N., R. 43 E., W.M.  
SPOKANE COUNTY, WASHINGTON

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

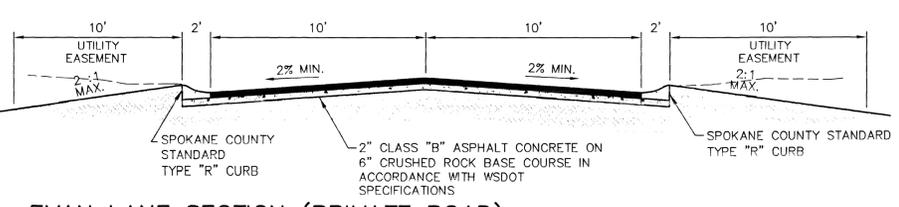
Associates, Inc.  
Planning  
Engineering  
Architecture  
Landscape Architecture  
Land Surveying  
700 N. W. Avenue, Suite 200  
Spokane, WA 99204  
Phone: (509) 478-6940  
Fax: (509) 455-0884



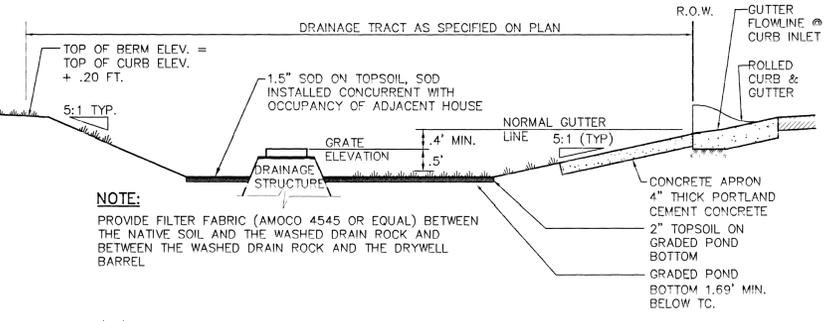
**SUMMERWOOD DRIVE ROAD SECTION (PUBLIC ROAD)**  
NOT TO SCALE \* NOTE: ADDITIONAL EASEMENT AREA GRANTED FOR FUTURE COLLECTOR ARTERIAL SECTION.



**BRIDLE TRAIL ROAD SECTION (PUBLIC ROAD)**  
NOT TO SCALE



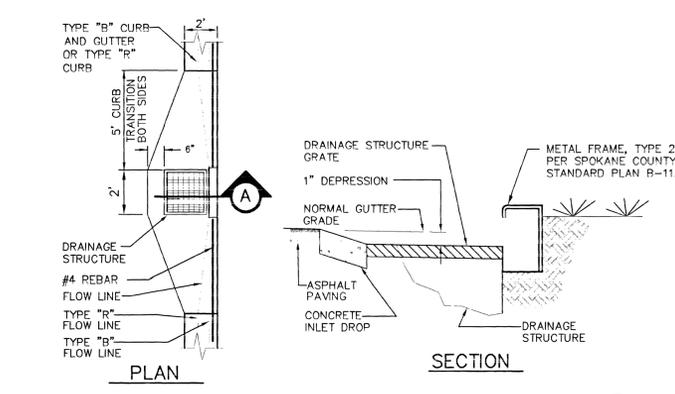
**EVAN LANE SECTION (PRIVATE ROAD)**  
NOT TO SCALE



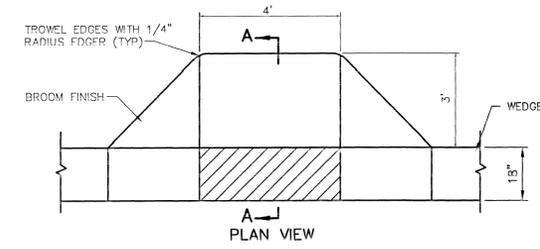
**NOTE:**  
PROVIDE FILTER FABRIC (AMOCO 4545 OR EQUAL) BETWEEN THE NATIVE SOIL AND THE WASHED DRAIN ROCK AND BETWEEN THE WASHED DRAIN ROCK AND THE DRYWELL BARREL

\* \* \* WARNING - THE USE OF SILTY LOAM IS PROHIBITED AS POND BOTTOM MATERIAL

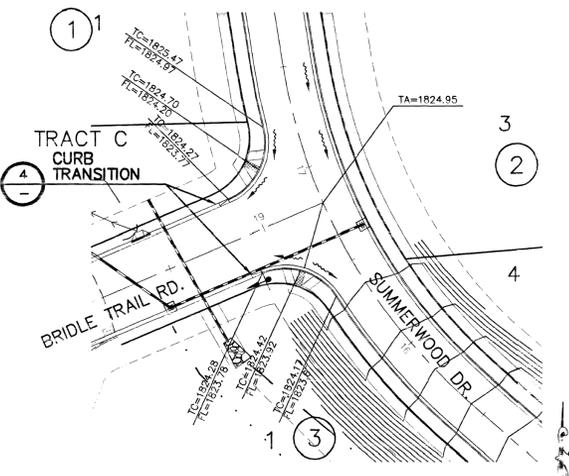
**STORM DRAINAGE POND WITH DRAINAGE STRUCTURE**  
NOT TO SCALE



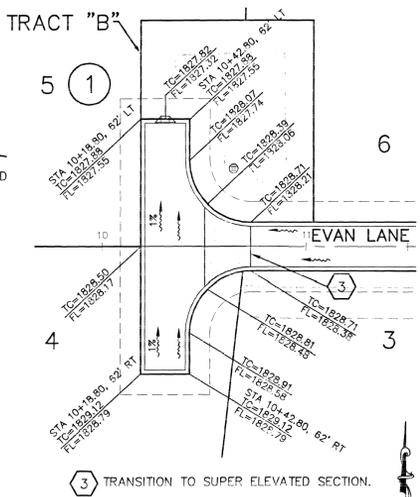
**GUTTER INLET DETAIL**  
NOT TO SCALE



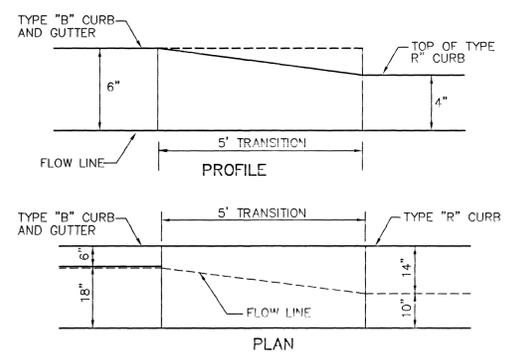
**CURB INLET DETAIL**  
NOT TO SCALE



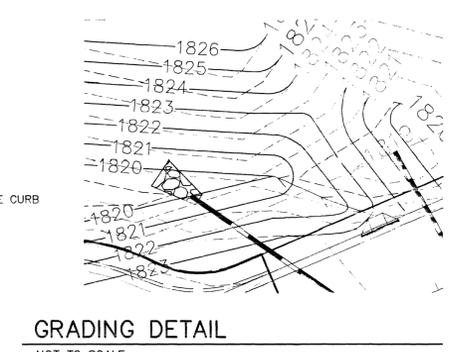
**INTERSECTION DETAIL**  
SCALE 1"=40'



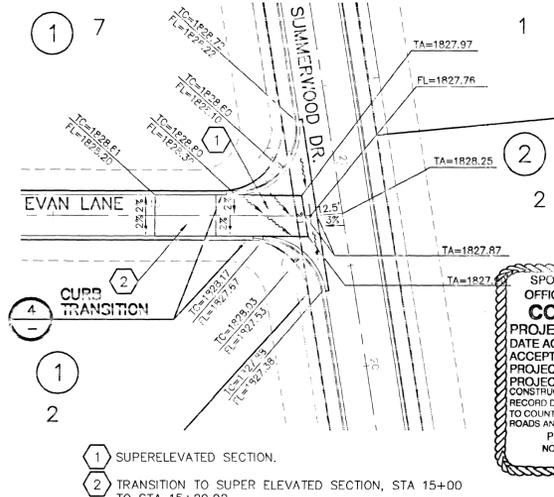
**TRACT "B" INTERSECTION DETAIL**  
SCALE 1"=40'



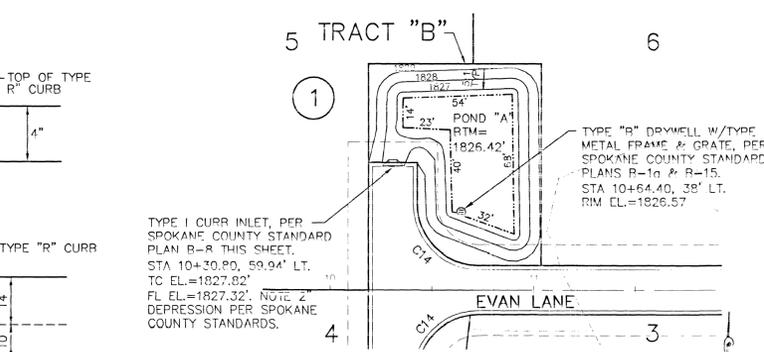
**"TYPE B" TO "TYPE R" CURB TRANSITION DETAIL**  
NOT TO SCALE



**GRADING DETAIL**  
NOT TO SCALE

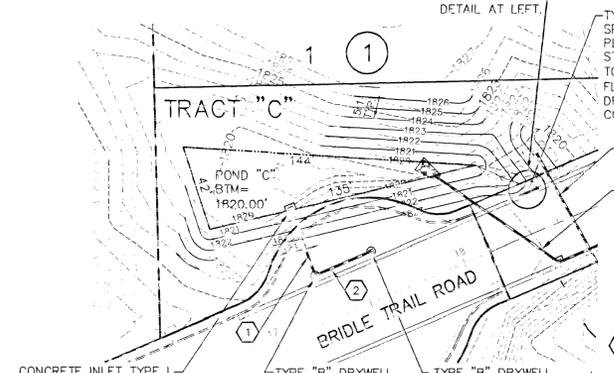


**INTERSECTION DETAIL**  
SCALE 1"=40'



**POND B DETAIL**  
1"=20'

POND BOTTOM EL.=1826.07'  
POND BOTTOM AREA=2243 S.F.  
PERIMETER=231 L.F.  
PROVIDED STORM VOLUME=2820 C.F.  
MIN. BERM EL.=1829'



**POND C DETAIL**  
1"=20'

POND BOTTOM EL.=1820.0  
POND BOTTOM AREA=2831 S.F.  
PERIMETER = 313 L.F.  
PROVIDED STORM VOLUME=3613 C.F.  
MIN. BERM EL.=1823.0

SPOKANE COUNTY ENGINEERS OFFICE  
OFFICIAL PUBLIC DOCUMENT ORIGINAL  
CONSTRUCTION PLANS  
PROJECT #: P1656A  
DATE ACCEPTED: 3/11/02  
ACCEPTANCE EXPIRES: 3/11/04  
PROJECT LANE MILES PUBLIC: 0.22  
PROJECT LANE MILES PRIVATE: 0.11  
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS: THIS SET OF DRAWINGS IS REQUIRED PRIOR TO COUNTY ACCEPTANCE AND IS VALID FOR THE ROAD AND DRAINAGE FACILITIES FOR MAINTENANCE.  
PERMIT REQUIRED: (509) 478-6940  
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION.

DAVID N. RANDALL  
DATE OF WASHINGTON STATE REGISTRATION: 2/28/02  
26984 REGISTERED PROFESSIONAL ENGINEER  
EXPIRES: 07/04/02

PREPARED UNDER THE DIRECT SUPERVISION OF  
DAVID N. RANDALL, P.E.  
WASHINGTON REGISTRATION NO. 26984  
FOR AND ON BEHALF OF  
CLC ASSOCIATES, INC.

DESIGN PREPARATION  
1/20/01 ORIGINAL SUBMITTAL  
1/19/02 FIRST SUBMITTAL  
2/13/02 SECOND SUBMITTAL  
03/04/02 FINAL SUBMITTAL

CLC Job Number: 08274  
Drawn By: SKM  
Reviewed By: SKM  
Checked By: DMD

THIS PLAN AND INSTRUMENTS OF PROFESSIONAL SERVICE ARE NOT VALID UNLESS THEY ARE SIGNED AND SEALED BY A LICENSED ENGINEER AND OTHER REGISTERED PROFESSIONALS IN ACCORDANCE WITH THE RULES OF THE BOARD OF ENGINEERS AND SURVEYORS OF THE STATE OF WASHINGTON. THE SEAL OF AN ENGINEER OR SURVEYOR IS NOT VALID UNLESS IT IS USED IN ACCORDANCE WITH THE RULES OF THE BOARD OF ENGINEERS AND SURVEYORS OF THE STATE OF WASHINGTON.

STREET CONSTRUCTION PLANS  
**SUMMERWOOD SECOND ADDITION**  
DETAILS  
SPOKANE COUNTY, WASHINGTON

Sheet Title  
DETAILS  
4 of 4  
Sheet Number

DEVELOPER'S APPROVAL  
DATE 3-8-02

Diana S. Reynolds

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