COVER SHEET FOR
HIGH POINT - WOODLAND ESTATES
STREET AND STORM DRAINAGE PLANS
NE 1/4, SEC. 31, T. 26 N., R. 44 E, W.M.
SPOKANE COUNTY, WASHINGTON

RECORD DRAWING

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.

1. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION 2001", AND AS AMENDED.

2. 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.

3. 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.

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.

5. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER, MARK L. KRIGBAUM, 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.

6. FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC, "AMOCO" 4545 OR APPROVED EQUIVALENT, BETWEEN THE WASHED DRAINROCK AND NATIVE SOILS PER SPOKANE COUNTY STANDARD DETAIL B-1a.

7. 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.

8. 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 THE DRYWELL OR CATCH BASIN OUT 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.

STORM DRAINAGE NOTES

1. SEE STREET PLAN AND PROFILE SHEETS FOR DRYWELL AND CATCH BASIN TYPES AND LOCATIONS.

2. 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.

3. ALL "208" PONDS SHOWN SHALL BE ROUGH GRADED PRIOR TO PAVING OF ADJACENT ROADWAY.

4. CONTRACTOR SHALL PROVIDE SPOKANE COUNTY WITH AS-BUILT IRRIGATION PLANS UPON COMPLETION OF ALL POND CONSTRUCTION.

5. FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC, "AMOCO" #4545 OR APPROVED EQUIVALENT, BETWEEN THE WASHED DRAINROCK AND NATIVE SOILS PER SPOKANE COUNTY STANDARD DETAIL B-1a.

6. 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.

7. 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.

8. ALL LANDSCAPE AREAS ('208' PONDS) ARE TO BE IRRIGATED BY 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.

SLEEVING: PROVIDE SLEEVING AS REQUIRED UNDER SIDEWALKS, PATHS, CURBING, PAVING, ETC. AS 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).

ADJUSTMENT: AFTER INSTALLATION, ADJUST VALVES, HEADS, EMITTERS, ETC. TO PROVIDE UNIFORM 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.

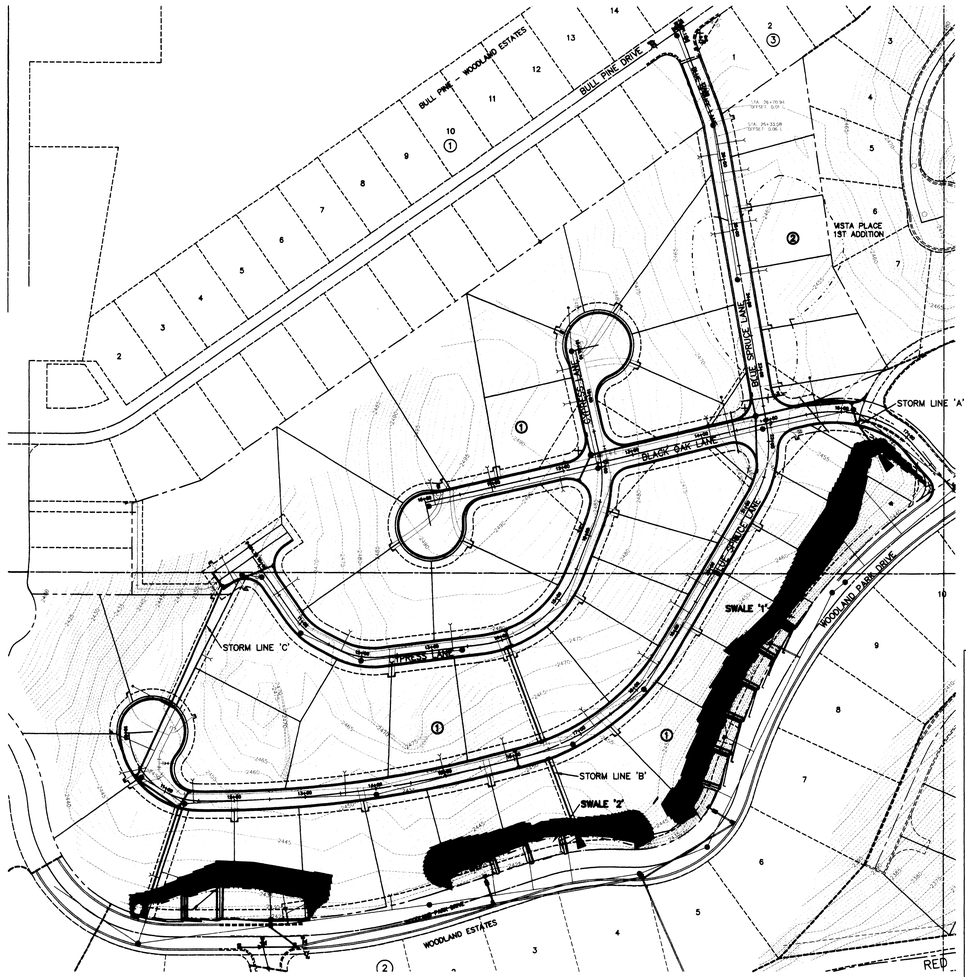
9. THE FLOOR OF A GRASSED PERCOLATION AREA (GPA) SWALE INCLUDES THE LEVEL PORTION OF THE FLOOR OF THE SWALE, AND THE SIDESLOPES OF THE SWALE UP TO THE GPA OVERFLOW ELEVATION OR TOP OF DRYWELL. THE SOIL LOCATED IN THE FLOOR OF THE GPA SWALE SHALL BE A MEDIUM TO WELL-DRAINING MATERIAL, WITH A MINIMUM INFILTRATION 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.

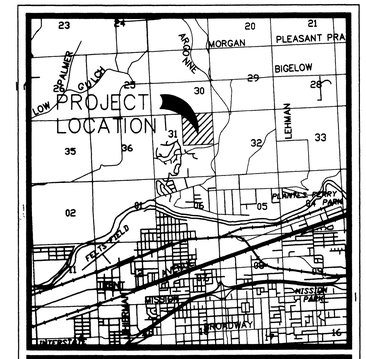
NAVD'88 DATUM
ESTABLISHED ON-SITE BY GPS
SURVEY PERFORMED 11/21/00
BASED ON WSDOT MONUMENT
GP 32290-143 AND GP 33290-147

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

CAUTION: NOTICE TO CONTRACTOR

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 ON 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. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.





VICINITY MAP

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: P1729 O
DATE ACCEPTED: 8/2/06

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BLACK OAK LANE AND COURT STA. 10+00 TO STA. 16+27.34	SHEET 4
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LEGEND

EXISTING	GENERAL	PROPOSED
	ROADWAY CENTER LINE	
	RIGHT OF WAY LINE	
	PROPERTY LINE	
	EASEMENT LINE	
	FENCE	
	CURB	
	PAVEMENT	
	GRAVEL	
	PLAT BOUNDARY	
	BUILDINGS & STRUCTURES	
	SANITARY SEWER	
	SANITARY SEWER	
	MANHOLE	
	CLEANOUT	
	SEWER SERVICE	
	WATER	
	WATER LINE	
	VALVE	
FH	FIRE HYDRANT	
WS	SERVICE	
	METER	
BO	BLOWOFF	BO
AVRS	AIR VACUUM RELIEF STATION	AVRS
	STORM DRAINAGE	
	DRAINAGE LINE	
MH	MANHOLE	MH
DW	DRYWELL	DW
CB	CATCH BASIN	CB
	DITCH	

PAUL T. NELSON
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER
37228
7-19-06
EXPIRES 11/24/07

I HAVE REVIEWED THE CONSTRUCTION AND TO MY KNOWLEDGE FIND IT TO BE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED CERTIFIED PLANS AND STANDARD SPECIFICATIONS EXCEPT AS NOTED.

NORTH 100 0 50 100
SCALE: 1" = 100'-0"

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.

DEVELOPER'S APPROVAL DATE

P-17290 Eng As Built

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12730 EAST MIRABEAU PARKWAY
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ENGINEERING PLANNING
LANDSCAPE ARCHITECTURE
LAND SURVEYING

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STREET AND STORM DRAINAGE PLANS
HIGH POINT - WOODLAND ESTATES
COVER SHEET
SPOKANE COUNTY, WA

MARK L. KRIGBAUM
STATE OF WASHINGTON
38236
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES 6/14/07

PREPARED UNDER THE DIRECT SUPERVISION OF MARK L. KRIGBAUM WASHINGTON REGISTRATION NO. 38236 FOR AND ON BEHALF OF CLC ASSOCIATES

DATE	DESCRIPTION
06/17/04	ORIGINAL PREPARATION
06/17/05	SECOND SUBMITTAL
07/14/06	RECORD DRAWING by ALLWEST TESTING AND ENGINEERING

COVER SHEET

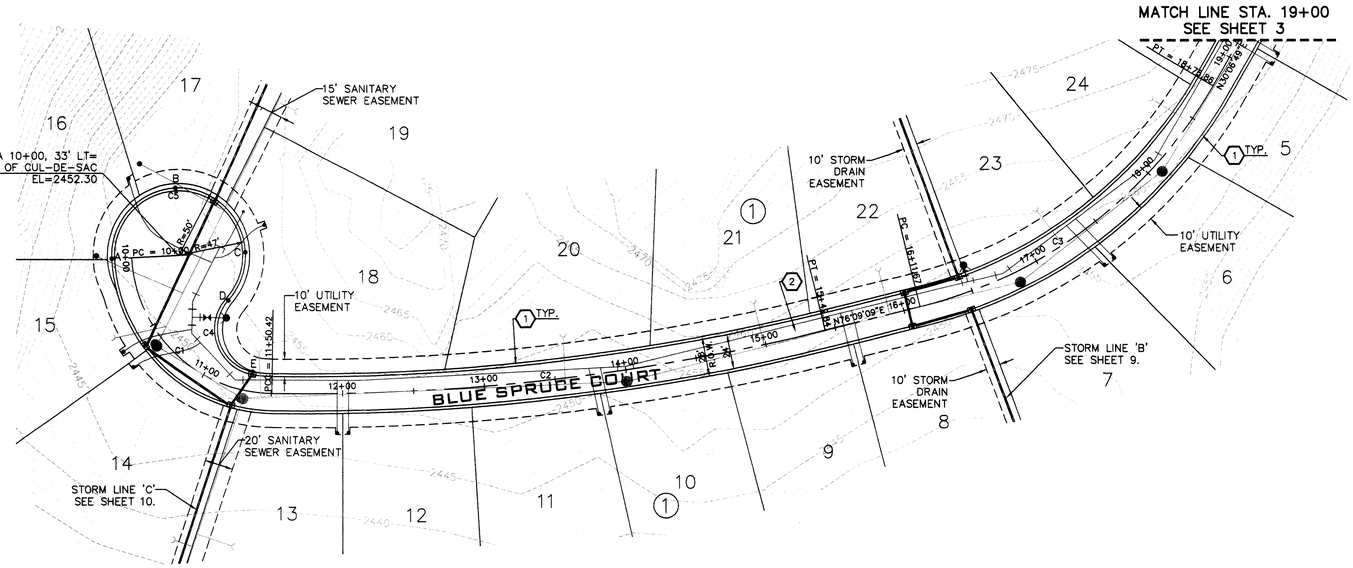
PROJECT #: S040181
DRAWN BY: JCR
DESIGNED BY: SKM
CHECKED BY: MLK

:\2005-108T High Point\dwg\asbuilt STREET p1.dwg, Plan, 7/12/2006 2:30:25 PM, 1:1

SEC 31, T. 26 N., R. 44 E, W.M.
SPOKANE COUNTY, WASHINGTON

NAVD'88 DATUM
ESTABLISHED ON-SITE BY GPS SURVEY PERFORMED 11/21/00 BASED ON WSDOT MONUMENT GP 32290-143 AND GP 33290-147

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



CURVE TABLE					
CURVE	LENGTH	RADIUS	TANGENT	CHORD	DELTA
C1	150.42	100.00	93.55	136.64	86°11'06"
C2	392.42	1537.62	197.28	391.35	14°37'21"
C3	265.19	330.03	140.22	258.11	46°02'20"
C4	63.90	30.00	54.17	52.49	122°02'49"
C5	185.02	47.00	111.94	86.67	225°33'11"

NOTE: ALL RADII LISTED FOR TYPE 'R' CURB ARE TO BACK OF CURB.

CONSTRUCTION NOTES

1. TYPE R CURB PER SPOKANE COUNTY STANDARD PLAN A-3.
2. SEE DETAIL 1, SHEET 7 FOR TYPICAL CROSS SECTION.

RECORD DRAWING

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: P17290
DATE ACCEPTED: 8/2/06

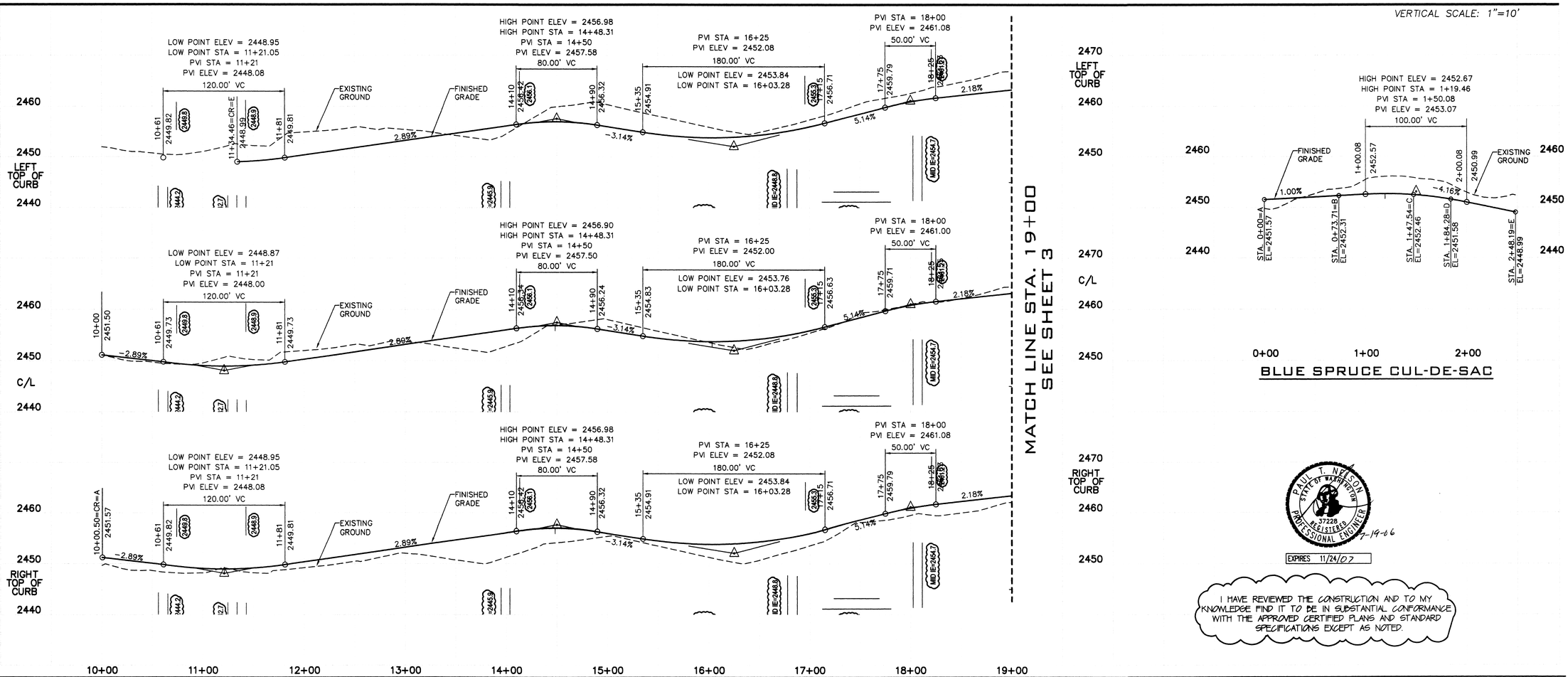
GENERAL NOTES

1. ALL FILL TO A DEPTH OF 2 FEET BELOW PROPOSED PAVEMENT SECTION SHALL BE VERIFIED TO BE SM SOIL OR BETTER AND APPROVED BY THE GEOTECHNICAL ENGINEER AND COMPACTED TO 95% MAXIMUM DRY DENSITY PER SPOKANE COUNTY GUIDELINES.

NORTH 50 0 25 50
SCALE: 1" = 50'-0"

DEVELOPER'S APPROVAL | DATE

VERTICAL SCALE: 1"=10'



MATCH LINE STA. 19+00
SEE SHEET 3

PAUL T. NELSON
STATE OF WASHINGTON
37228
REGISTERED
PROFESSIONAL ENGINEER
7-19-06
EXPIRES 11/24/07

I HAVE REVIEWED THE CONSTRUCTION AND TO MY KNOWLEDGE FIND IT TO BE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED CERTIFIED PLANS AND STANDARD SPECIFICATIONS EXCEPT AS NOTED.

CLC ASSOCIATES
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STREET AND STORM DRAINAGE PLANS
HIGH POINT -
WOODLAND ESTATES
BLUE SPRUCE LANE & COURT
STA. 10+00 TO STA. 19+00
SPOKANE COUNTY, WASHINGTON

MARK L. KRIGBAUM
STATE OF WASHINGTON
39236
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES 6/14/07
PREPARED UNDER THE DIRECT SUPERVISION OF MARK L. KRIGBAUM WASHINGTON REGISTRATION NO. 39236 FOR AND ON BEHALF OF CLC ASSOCIATES

DATE	DESCRIPTION
06/17/04	ORIGINAL PREPARATION
06/17/05	SECOND SUBMITTAL
07/14/06	RECORD DRAWING by ALLWEST TESTING AND ENGINEERING

BLUE SPRUCE LANE P & P

PROJECT #: S040181
DRAWN BY: JCR
DESIGNED BY: SKM
CHECKED BY: MLK

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L:\205-108T High Point\dwg\asbuilt STREET p2.dwg, Plan, 7/12/2006 2:29:22 PM, 1:1

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SEC 31, T. 26 N., R. 44 E, W.M.
SPOKANE COUNTY, WASHINGTON

RECORD DRAWING

UNDERGROUND SERVICE ALERT
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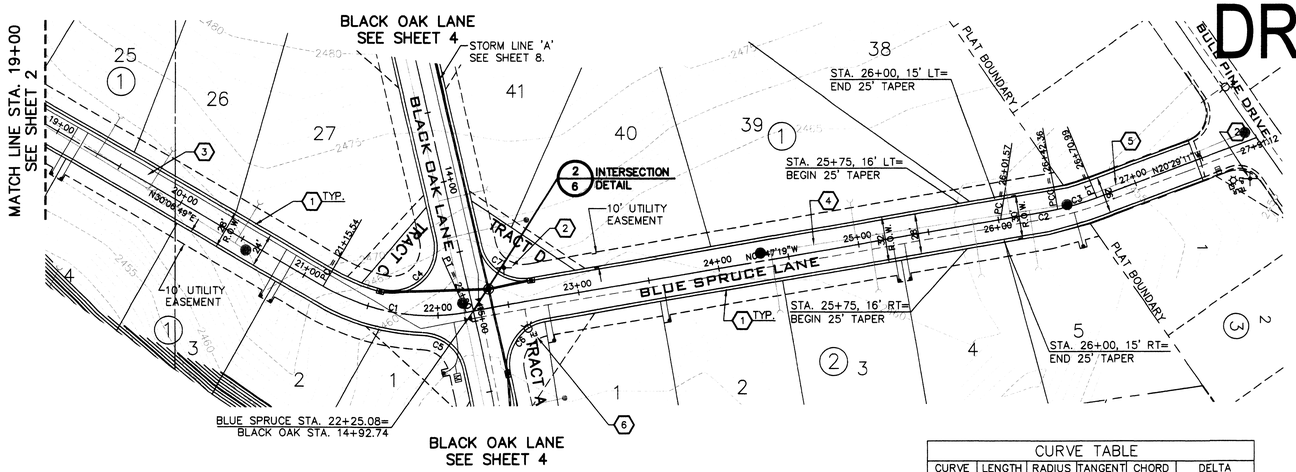


NORTH 50 0 25 50
SCALE: 1" = 50'-0"

NAVD'88 DATUM
ESTABLISHED ON-SITE BY GPS SURVEY PERFORMED 11/21/00 BASED ON WSDOT MONUMENT GP 32290-143 AND GP 33290-147

CONSTRUCTION NOTES

1. TYPE R CURB PER SPOKANE COUNTY STANDARD PLAN A-3.
2. PROVIDE AND INSTALL "PRIVATE ROAD" SIGNS PER SPOKANE COUNTY STANDARD PLAN A-16 AND M.U.T.C.D. STANDARDS.
3. SEE DETAIL 1, SHEET 7 FOR TYPICAL CROSS SECTION.
4. SEE DETAIL 2, SHEET 7 FOR TYPICAL CROSS SECTION.
5. SEE DETAIL 4, SHEET 7 FOR TYPICAL CROSS SECTION.
6. REMOVE AND RELOCATE EXISTING HYDRANT. SEE WATER PLANS.

CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	CHORD	DELTA
C1	104.46	150.00	54.45	102.37	39°54'08"
C2	40.79	673.94	20.40	40.78	3°28'04"
C3	28.63	135.25	14.37	28.58	12°07'48"
C4	61.60	30.00	49.59	51.34	117°39'20"
C5	40.18	30.00	23.75	37.24	76°44'30"
C6	47.83	30.00	30.71	42.92	91°20'50"
C7	45.47	30.00	28.39	41.24	86°50'26"

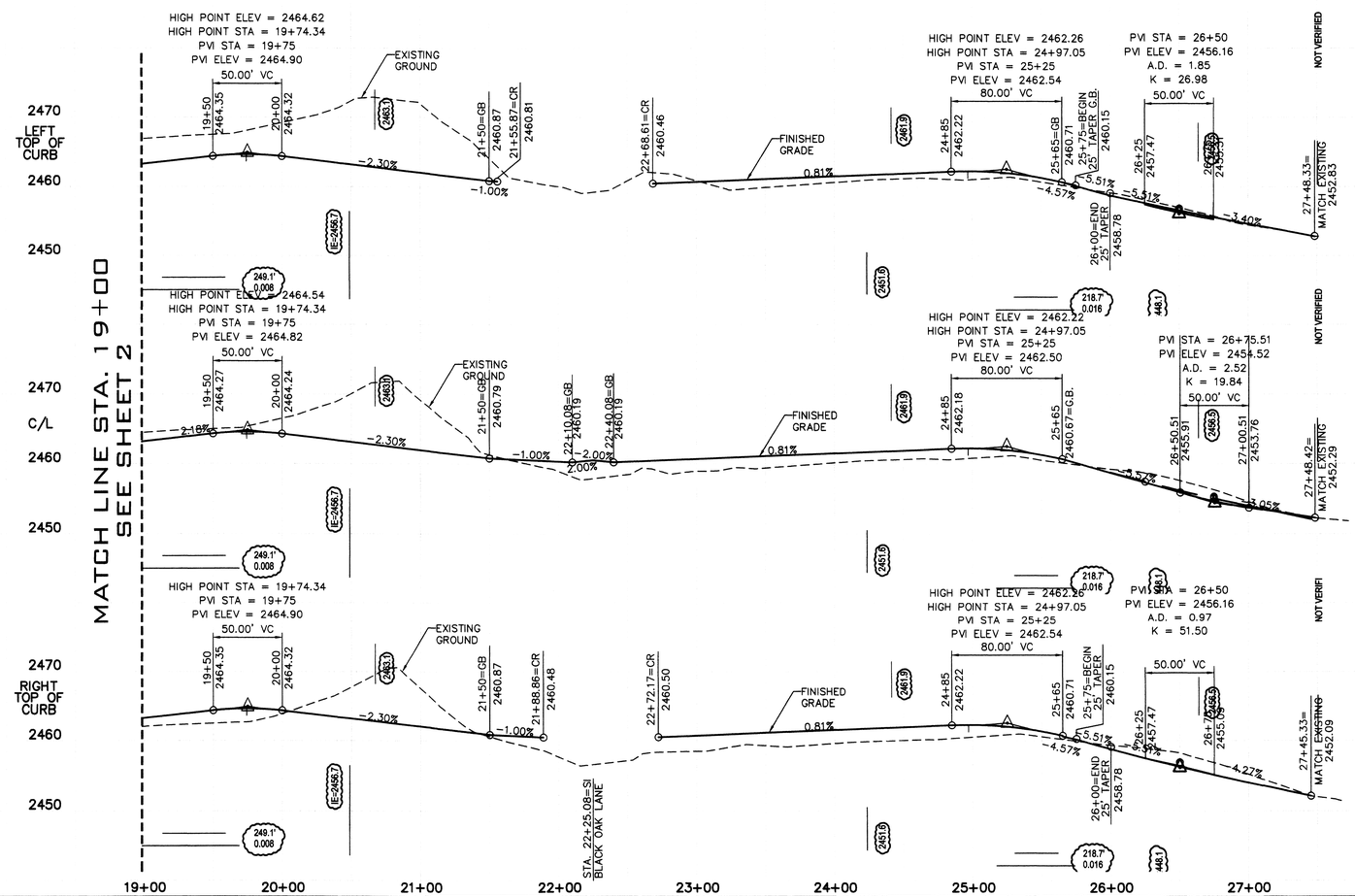
NOTE: ALL RADII LISTED FOR TYPE 'R' CURB ARE TO BACK OF CURB.

GENERAL NOTES

1. ALL FILL TO A DEPTH OF 2 FEET BELOW PROPOSED PAVEMENT SECTION SHALL BE VERIFIED TO BE SM SOILS OR BETTER AND APPROVED BY THE GEOTECHNICAL ENGINEER AND COMPACTED TO 95% MAXIMUM DRY DENSITY PER SPOKANE COUNTY GUIDELINES.

DEVELOPER'S APPROVAL | DATE

VERTICAL SCALE: 1"=10'



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: P1729 O
DATE ACCEPTED: 8/2/06

PAUL T. NELSON
STATE OF WASHINGTON
37228
REGISTERED
PROFESSIONAL ENGINEER
2-19-06
EXPIRES 11/24/07

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STREET AND STORM DRAINAGE PLANS
HIGH POINT - WOODLAND ESTATES
BLUE SPRUCE LANE & COURT
STA. 19+00 TO STA. 27+91.12
SPOKANE COUNTY, WASHINGTON

MARK L. KRIGBAUM
STATE OF WASHINGTON
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EXPIRES 6/14/07

PREPARED UNDER THE DIRECT SUPERVISION OF MARK L. KRIGBAUM WASHINGTON REGISTRATION NO. 39236 FOR AND ON BEHALF OF CLC ASSOCIATES

DATE		DESCRIPTION
06/17/04	-	ORIGINAL PREPARATION
06/17/05	-	SECOND SUBMITTAL
07/14/06	-	RECORD DRAWING by ALLWEST TESTING AND ENGINEERING

BLUE SPRUCE LANE P & P

PROJECT #: S040181
DRAWN BY: JCR
DESIGNED BY: SKM
CHECKED BY: MLK

P-17290 Eng As Built

L:\205-108T High Point\dwg\asbuilt STREET p3.dwg, Plan, 7/12/2006 2:20:21 PM, 1:1

SEC 31, T. 26 N., R. 44 E, W.M.
SPOKANE COUNTY, WASHINGTON

RECORD DRAWING

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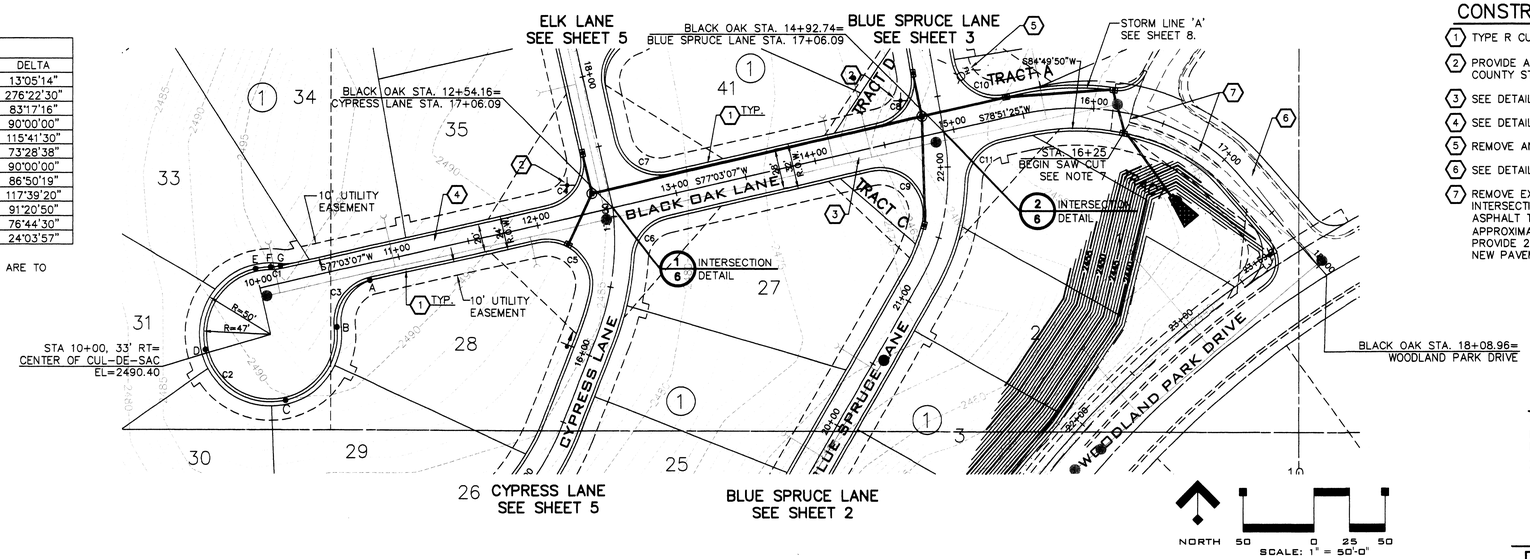
CURVE TABLE					
CURVE	LENGTH	RADIUS	TANGENT	CHORD	DELTA
C1	6.85	30.00	3.44	6.84	13°05'14"
C2	226.71	47.00	42.04	62.67	276°22'30"
C3	43.61	30.00	26.68	39.87	83°17'16"
C4	47.12	30.00	30.00	42.43	90°00'00"
C5	60.58	30.00	47.72	50.80	115°41'30"
C6	38.47	30.00	22.39	35.89	73°28'38"
C7	47.12	30.00	30.00	42.43	90°00'00"
C8	45.47	30.00	28.39	41.24	86°50'19"
C9	61.60	30.00	49.59	51.34	117°39'20"
C10	47.83	30.00	30.71	42.92	91°20'50"
C11	40.18	30.00	23.75	37.24	76°44'30"
C12	61.75	147.01	31.34	61.30	24°03'57"

NOTE: ALL RADII LISTED FOR TYPE 'R' CURB ARE TO BACK OF CURB.



CONSTRUCTION NOTES

1. TYPE R CURB PER SPOKANE COUNTY STANDARD PLAN A-3.
2. PROVIDE AND INSTALL (2) "PRIVATE ROAD" SIGNS PER SPOKANE COUNTY STANDARD PLAN A-16 AND M.U.T.C.D. STANDARDS.
3. SEE DETAIL 2, SHEET 7 FOR TYPICAL CROSS SECTION.
4. SEE DETAIL 3, SHEET 7 FOR TYPICAL CROSS SECTION.
5. REMOVE AND RELOCATE EXISTING HYDRANT. SEE WATER PLAN.
6. SEE DETAIL 5 SHEET 7 FOR TYPICAL CROSS SECTION.
7. REMOVE EXISTING RIGHT CURB FROM STATION 16+25 TO INTERSECTION WITH WOODLAND PARK DRIVE. SAWCUT EXISTING ASPHALT TO PROVIDE SMOOTH EDGE, TACK COAT AND PAVE APPROXIMATELY 8', TO A MINIMUM 28' TOTAL PAVED WIDTH. PROVIDE 2% CROSS SLOPE FROM EXISTING EDGE OF ASPHALT TO NEW PAVEMENT EDGE.

GENERAL NOTES

1. ALL FILL TO A DEPTH OF 2 FEET BELOW PROPOSED PAVEMENT SECTION SHALL BE VERIFIED TO BE SM SOILS OR BETTER AND APPROVED BY THE GEOTECHNICAL ENGINEER AND COMPACTED TO 95% MAXIMUM DRY DENSITY PER SPOKANE COUNTY GUIDELINES.

NAVD'88 DATUM
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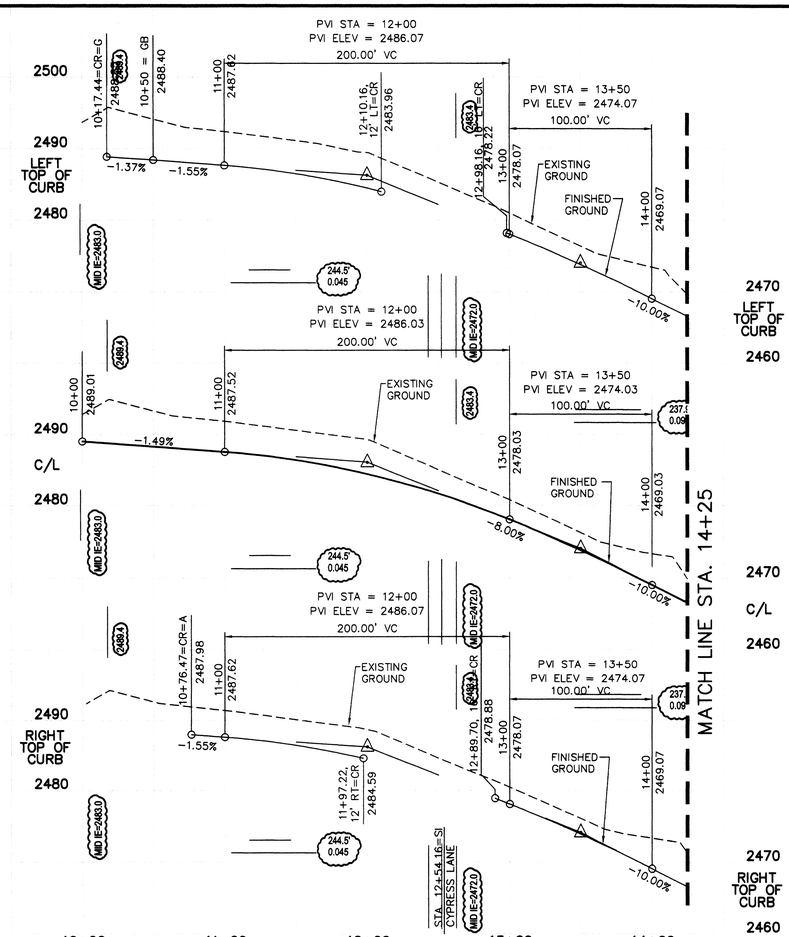
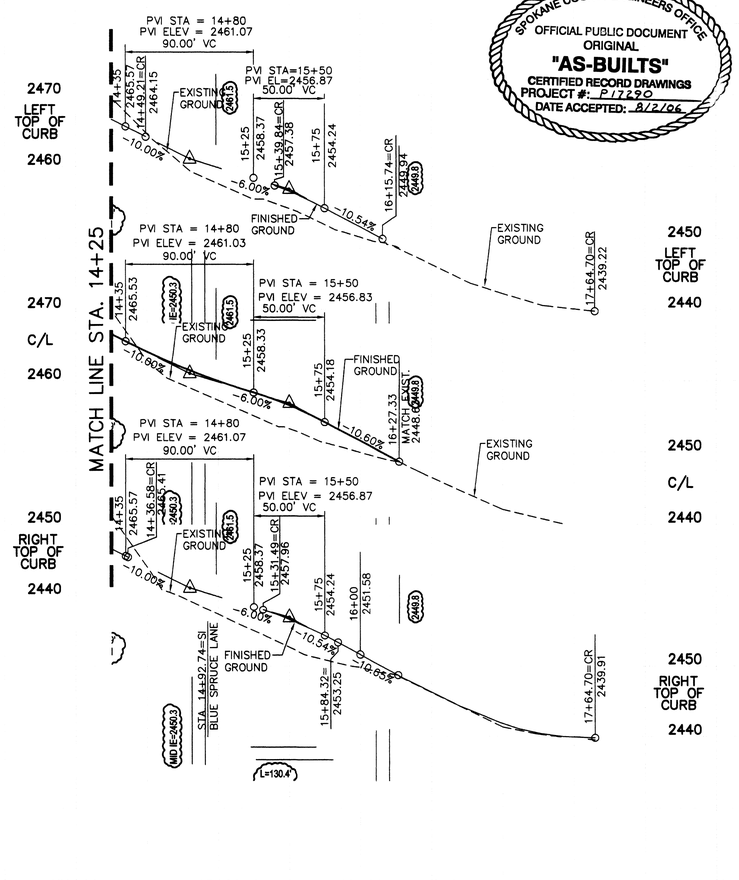
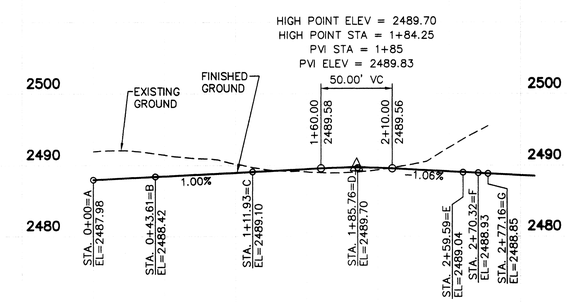
DEVELOPER'S APPROVAL | DATE

VERTICAL SCALE: 1"=10'







BLACK OAK CUL-DE-SAC

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: P17290
DATE ACCEPTED: 8/2/06

PAUL T. NELSON
STATE OF WASHINGTON
37228
REGISTERED PROFESSIONAL ENGINEER
7-19-06
EXPIRES 11/24/07

I HAVE REVIEWED THE CONSTRUCTION AND TO MY KNOWLEDGE FIND IT TO BE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED CERTIFIED PLANS AND STANDARD SPECIFICATIONS EXCEPT AS NOTED.

CLC ASSOCIATES
12730 EAST MIRABEAU PARKWAY
SUITE 100
SPOKANE VALLEY
WASHINGTON 99216
P 509 458 6840
F 509 458 6844
CLCASSOC.COM
ARCHITECTURE
ENGINEERING PLANNING
LANDSCAPE ARCHITECTURE
LAND SURVEYING

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STREET AND STORM DRAINAGE PLANS
HIGH POINT - WOODLAND ESTATES
BLACK OAK LANE & COURT
STA. 10+00 TO STA. 16+27.34
SPOKANE COUNTY, WASHINGTON

MARK L KRIGBAUM
STATE OF WASHINGTON
39236
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 6/14/07

PREPARED UNDER THE DIRECT SUPERVISION OF MARK L. KRIGBAUM WASHINGTON REGISTRATION NO. 39236 FOR AND ON BEHALF OF CLC ASSOCIATES

DATE	DESCRIPTION
06/17/04	ORIGINAL PREPARATION
06/17/05	SECOND SUBMITTAL
08/24/05	FINAL APPROVAL
07/14/06	RECORD DRAWING by ALLWEST TESTING AND ENGINEERING

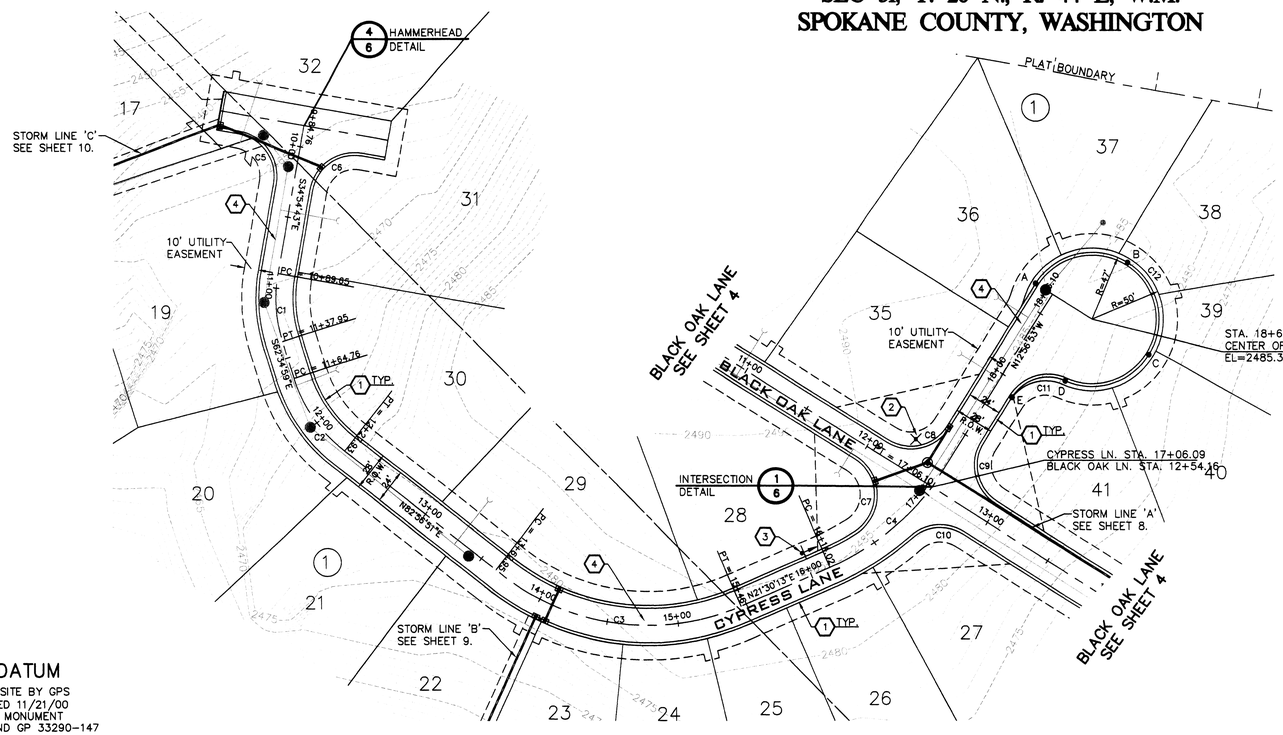
BLACK OAK LN PLAN & PROFILE

PROJECT #: S040181
DRAWN BY: JCR
DESIGNED BY: SKM
CHECKED BY: MLK

P-17290
Cmy As Built

L:\205-108T High Point\dwg\asbuilt STREET p4.dwg, Plan, 7/19/2006 1:01:48 PM, 1:1

SEC 31, T. 26 N., R. 44 E, W.M.
SPOKANE COUNTY, WASHINGTON



CURVE TABLE					
CURVE	LENGTH	RADIUS	TANGENT	CHORD	DELTA
C1	48.30	100.00	24.63	47.83	27°40'16"
C2	63.18	105.00	32.58	62.23	34°28'25"
C3	183.05	165.03	102.23	173.81	63°33'16"
C4	92.08	185.00	47.01	91.13	28°31'02"
C5	47.12	30.00	30.00	42.43	90°00'00"
C6	47.12	30.00	30.00	42.43	90°00'00"
C7	60.58	30.00	47.72	50.80	115°41'30"
C8	47.12	30.00	30.00	42.43	90°00'00"
C9	47.12	30.00	30.00	42.43	90°00'00"
C10	38.47	30.00	22.39	35.89	73°28'38"
C11	42.82	30.00	25.98	39.28	81°47'12"
C12	214.74	47.00	54.27	71.06	261°47'12"

NOTE: ALL RADII LISTED FOR TYPE 'R' CURB ARE TO BACK OF CURB.

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

CONSTRUCTION NOTES

1. TYPE R CURB PER SPOKANE COUNTY STANDARD PLAN A-3.
2. PROVIDE AND INSTALL (2) "PRIVATE ROAD" SIGNS PER SPOKANE COUNTY STANDARD PLAN A-16 AND M.U.T.C.D. STANDARDS.
3. PROVIDE AND INSTALL "DEAD END" SIGN W14-1 PER SPOKANE COUNTY AND M.U.T.C.D. STANDARDS.
4. SEE DETAIL 1, SHEET 7 FOR TYPICAL CROSS SECTION.

RECORD DRAWING

GENERAL NOTES

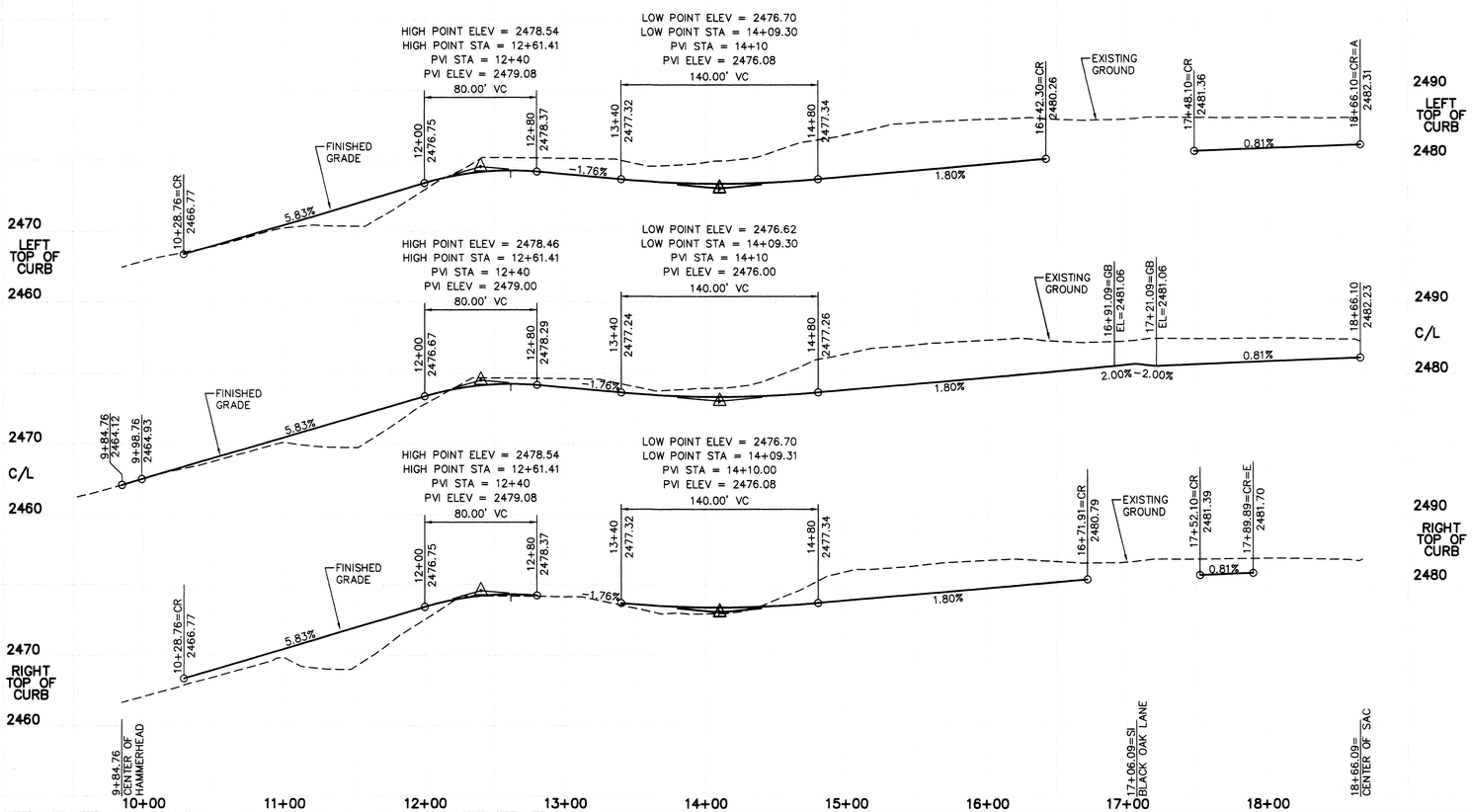
1. ALL FILL TO A DEPTH OF 2 FEET BELOW PROPOSED PAVEMENT SECTION SHALL BE VERIFIED TO BE SM SOIL OR BETTER AND APPROVED BY THE GEOTECHNICAL ENGINEER AND COMPACTED TO 95% MAXIMUM DRY DENSITY PER SPOKANE COUNTY GUIDELINES.

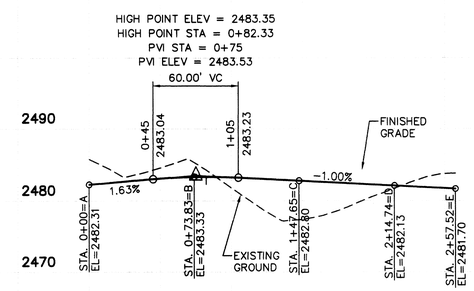
NAVD'88 DATUM
ESTABLISHED ON-SITE BY GPS SURVEY PERFORMED 11/21/00 BASED ON WSDOT MONUMENT GP 32290-143 AND GP 33290-147

NORTH 50 0 25 50
SCALE: 1" = 50'-0"

DEVELOPER'S APPROVAL DATE

VERTICAL SCALE: 1"=10'





CYPRESS CUL-DE-SAC

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: P1729 O
DATE ACCEPTED: 8/2/06

PAUL T. NEASON
STATE OF WASHINGTON
37228
REGISTERED PROFESSIONAL ENGINEER
7-19-06
EXPIRES 11/24/07

I HAVE REVIEWED THE CONSTRUCTION AND TO MY KNOWLEDGE FIND IT TO BE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED CERTIFIED PLANS AND STANDARD SPECIFICATIONS EXCEPT AS NOTED.

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STREET AND STORM DRAINAGE PLANS
HIGH POINT - WOODLAND ESTATES
CYPRESS LANE & COURT
STA. 10+00 TO STA. 18+66.09
SPOKANE COUNTY, WASHINGTON

MARK L. KRIGBAUM
STATE OF WASHINGTON
39236
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 6/14/07
PREPARED UNDER THE DIRECT SUPERVISION OF MARK L. KRIGBAUM WASHINGTON REGISTRATION NO. 39236 FOR AND ON BEHALF OF CLC ASSOCIATES

DATE	DESCRIPTION
06/17/04	ORIGINAL PREPARATION
07/14/06	RECORD DRAWING by ALLWEST TESTING AND ENGINEERING

CYPRESS LANE PLAN & PROFILE

PROJECT #: S040181
DRAWN BY: JCR
DESIGNED BY: SKM
CHECKED BY: MLK

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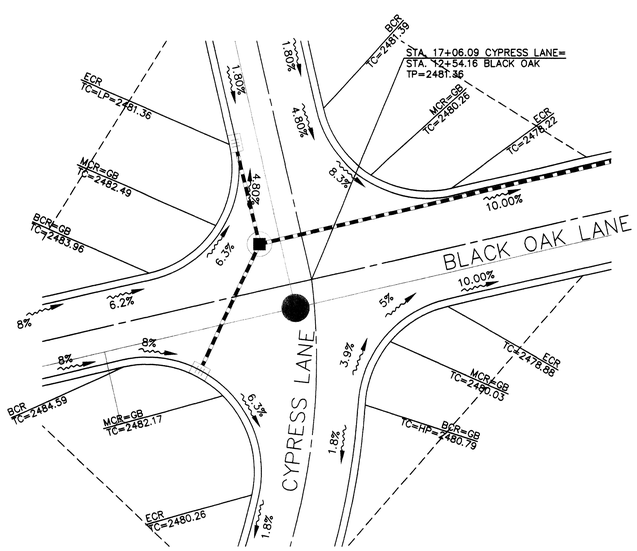
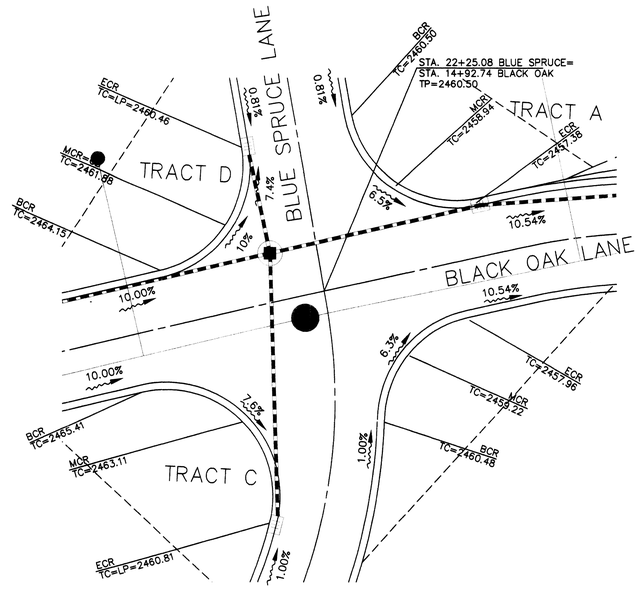
L:\205-108T High Point\dwg\asbuilt STREET p5.dwg, Plan, 7/12/2006 2:16:34 PM, 1:1

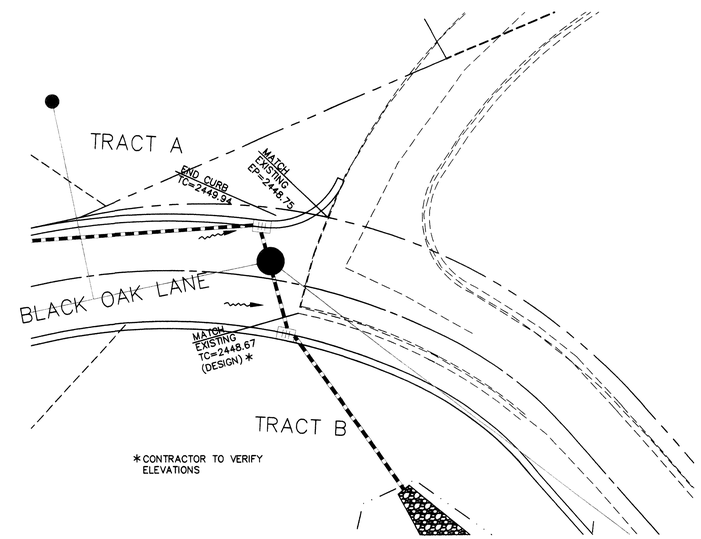
P-17290' Eng As Built



INTERSECTION 1
SCALE: 1"=20' SEE SHEET 4+5
NORTH

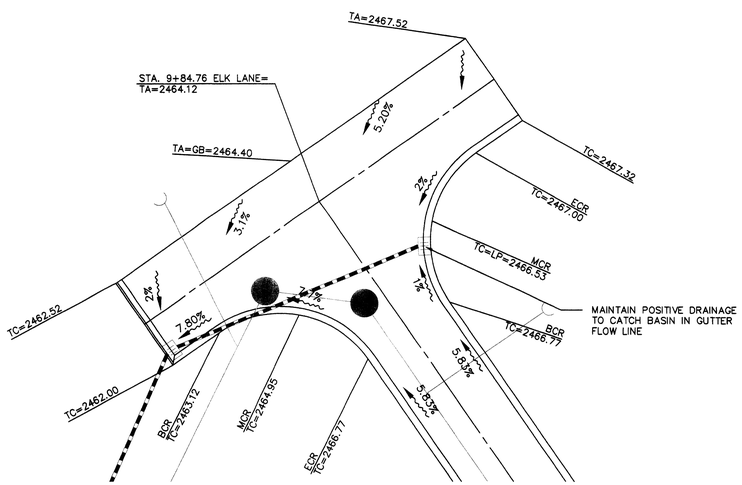


INTERSECTION 2
SCALE: 1"=20' SEE SHEET 3+4
NORTH



INTERSECTION 3
SCALE: 1"=20' SEE SHEET 4
NORTH

RECORD DRAWING



CYPRESS LANE HAMMERHEAD 4
SCALE: 1"=20' SEE SHEET 5
NORTH

PAUL T. NEALON
STATE OF WASHINGTON
37228
REGISTERED
PROFESSIONAL ENGINEER
7-19-06
EXPIRES 11/24/07

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SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: P17290
DATE ACCEPTED: 8/2/06

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

CAUTION: NOTICE TO CONTRACTOR

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 ON 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. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

NAVD '88 DATUM
PROJECT TBM IS W.S.D.O.T.
BRASS CAP IN CONCRETE
IDENTIFIED AS GP32027-256
ELEV=2045.17

DEVELOPER'S APPROVAL DATE

P-17290 Eng As Built

CLC ASSOCIATES
12730 EAST MIRABEAU PARKWAY
SUITE 100
SPOKANE VALLEY
WASHINGTON 99216
P 509 458 6840
F 509 458 6844
CLCASSOC.COM
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STREET AND STORM DRAINAGE PLANS
HIGH POINT - WOODLAND ESTATES
DETAIL SHEET
SPOKANE COUNTY, WA

MARK L. KRIGBAUM
STATE OF WASHINGTON
39236
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES 6/14/07
PREPARED UNDER THE DIRECT SUPERVISION OF MARK L. KRIGBAUM WASHINGTON REGISTRATION NO. 39236 FOR AND ON BEHALF OF CLC ASSOCIATES

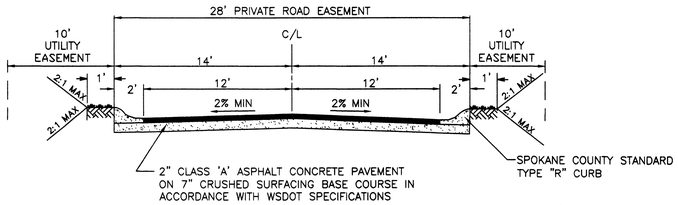
DATE	DESCRIPTION
06/11/04	ORIGINAL PREPARATION
06/15/05	SECOND SUBMITTAL
08/24/05	FINAL APPROVAL
07/14/06	RECORD DRAWING by ALLWEST TESTING AND ENGINEERING

STREET DETAILS

PROJECT #: S040181
DRAWN BY: JCR
DESIGNED BY: BAH
CHECKED BY: MLK

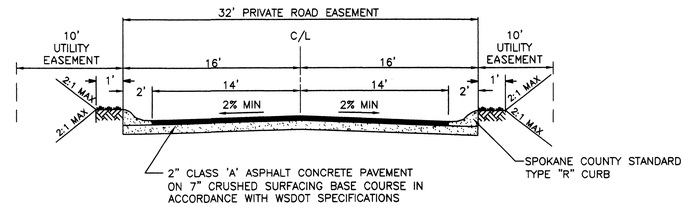
L:\205-108T High Point\dwg\asbuilt STREET p8.dwg, Plan, 7/12/2006 2:13:38 PM, 1:1

RECORD DRAWING



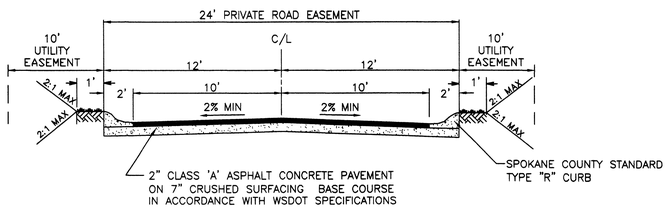
TYPICAL 28' PRIVATE ROAD CROSS SECTION (1)

NOT TO SCALE
BLUE SPRUCE LANE STA. 10+00 TO STA. 22+25.08
CYPRESS LANE STA. 9+84.76 TO STA. 18+66.10



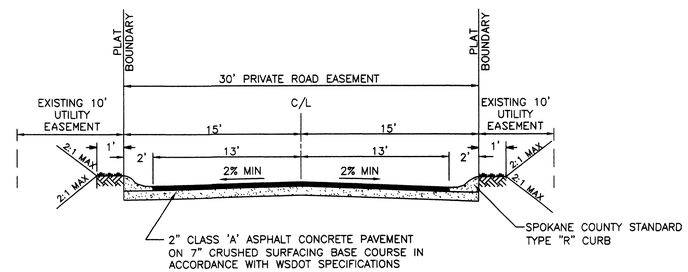
TYPICAL 32' PRIVATE ROAD CROSS SECTION (2)

NOT TO SCALE
BLUE SPRUCE LANE STA. 22+25.08 TO STA. 25+75
BLACK OAK LANE STA. 12+54.16 TO STA. 16+27.34



TYPICAL 24' PRIVATE ROAD CROSS SECTION (3)

NOT TO SCALE
BLACK OAK LANE STA. 10+00 TO STA. 12+54.16



TYPICAL 30' PRIVATE ROAD CROSS SECTION (4)

NOT TO SCALE
BLUE SPRUCE LANE STA. 26+00 TO STA. 27+91.12

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
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CERTIFIED RECORD DRAWINGS
PROJECT #: P1729 0
DATE ACCEPTED: 8/2/06

PAUL T. NELSON
STATE OF WASHINGTON
37228
REGISTERED
PROFESSIONAL ENGINEER
7-19-06
EXPIRES 11/24/07

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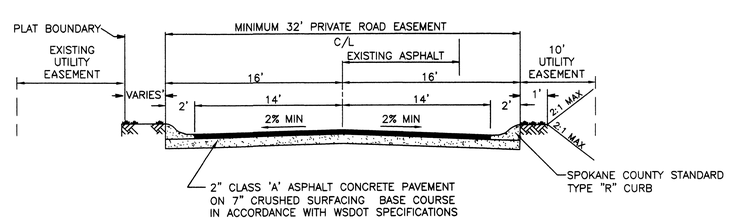

PRIVATE ROAD CROSS SECTION WITH VARYING R.O.W. (5)

NOT TO SCALE
BLACK OAK LANE STA. 16+27.34 TO 18+08.96

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

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NAVD '88 DATUM
PROJECT TBM IS W.S.D.O.T.
BRASS CAP IN CONCRETE
IDENTIFIED AS GP32027-256
ELEV=2045.17

DEVELOPER'S APPROVAL | DATE

P-1729 j' Eng AsBuilt

CLC ASSOCIATES
12730 EAST MIRABEAU PARKWAY
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SPOKANE VALLEY
WASHINGTON 99216
P 509 458 6840
F 509 458 6844
CLCA@800.COM
ARCHITECTURE
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STREET AND STORM DRAINAGE PLANS

HIGH POINT - WOODLAND ESTATES
DETAIL SHEET
SPOKANE COUNTY, WA

MARK L. KRIGBAUM
STATE OF WASHINGTON
39236
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES 6/14/07

PREPARED UNDER THE DIRECT SUPERVISION OF MARK L. KRIGBAUM WASHINGTON REGISTRATION NO. 39236 FOR AND ON BEHALF OF CLC ASSOCIATES

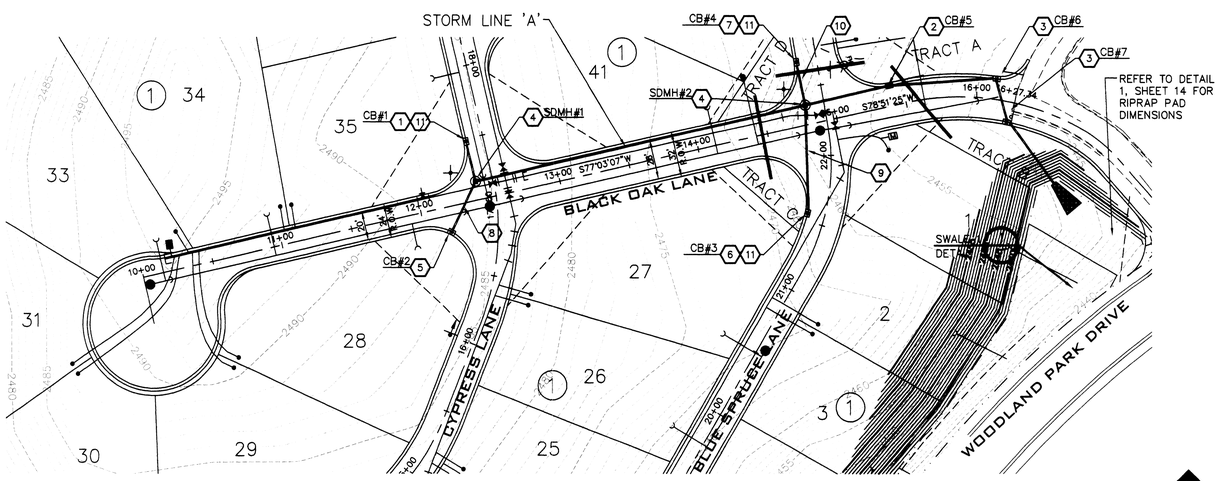
DATE	DESCRIPTION
06/11/04	ORIGINAL PREPARATION
06/17/05	SECOND SUBMITTAL
07/14/06	RECORD DRAWING by ALLWEST TESTING AND ENGINEERING

STREET DETAILS

PROJECT #: S040181
DRAWN BY: JCR
DESIGNED BY: BAH
CHECKED BY: MLK

L:\205-108T High Point\dwg\asbuilt STREET p7.dwg, Plan, 7/12/2006 2:08:38 PM, 1:1

SEC 31, T. 26 N., R. 44 E, W.M.
SPOKANE COUNTY, WASHINGTON



CONSTRUCTION NOTES

1. INSTALL TYPE 1 CATCH BASIN WITH TYPE 2 FRAME AND TYPE 3 GRATE WITH HOOD PER SPOKANE COUNTY STANDARD PLANS B-4, B-11 AND B-14.
2. INSTALL TYPE 1 CATCH BASIN WITH TYPE 1 FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLANS B-4, B-10 AND B-12.
3. W.S.D.O.T. GRATE INLET TYPE 2 WITH FRAME AND VANE GRATE PER W.S.D.O.T. STANDARD PLANS B-4c & B-4d. INSTALL WITH LONG DIMENSION OF INLET PERPENDICULAR TO CURB.
4. INSTALL TYPE I-48 STORM MANHOLE PER SPOKANE COUNTY STANDARD PLAN U-2.
5. STA. 12+17.84, RT (BLACK OAK), INSTALL TYPE 1 CATCH BASIN WITH TYPE 1 FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLANS B-4, B-10 AND B-12. TC=2485.39, RIM=2484.89, IE(N)=2481.89
6. STA. 21+55.87, LT (BLUE SPRUCE), INSTALL TYPE 1 CATCH BASIN WITH TYPE 2 FRAME AND AND TYPE 3 GRATE WITH HOOD PER SPOKANE COUNTY STANDARD PLANS B-4, B-11 AND B-14. TC=2460.81, RIM=2460.31, IE(N)=2457.31
7. STA. 22+68.61, LT (BLUE SPRUCE), INSTALL TYPE 1 CATCH BASIN WITH TYPE 2 FRAME AND AND TYPE 3 GRATE WITH HOOD PER SPOKANE COUNTY STANDARD PLANS B-4, B-11 AND B-14. TC=2460.46, RIM=2459.96, IE(S)=2456.91.
8. INSTALL APPROX. 39.00 L.F. OF 12" PVC STORM PIPE. IE(CB#2)=2481.89, IE(SDMH #1)=2479.68, S=0.0567 FT/FT.
9. INSTALL APPROX. 76.00 L.F. OF 12" PVC STORM PIPE. IE(CB#3)=2457.31, IE(SDMH #2)=2456.41, S=0.0118 FT/FT.
10. INSTALL APPROX. 30.50 L.F. OF 12" PVC STORM PIPE. IE(CB#4)=2456.96, IE(SDMH #2)=2456.11, S=0.0279 FT/FT.
11. CONSTRUCT CATCH BASIN IN SUMP TRANSITION PER DETAIL 1, SHEET 14.

UNDERGROUND SERVICE ALERT
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456·8000
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RECORD DRAWING

NAVD'88 DATUM
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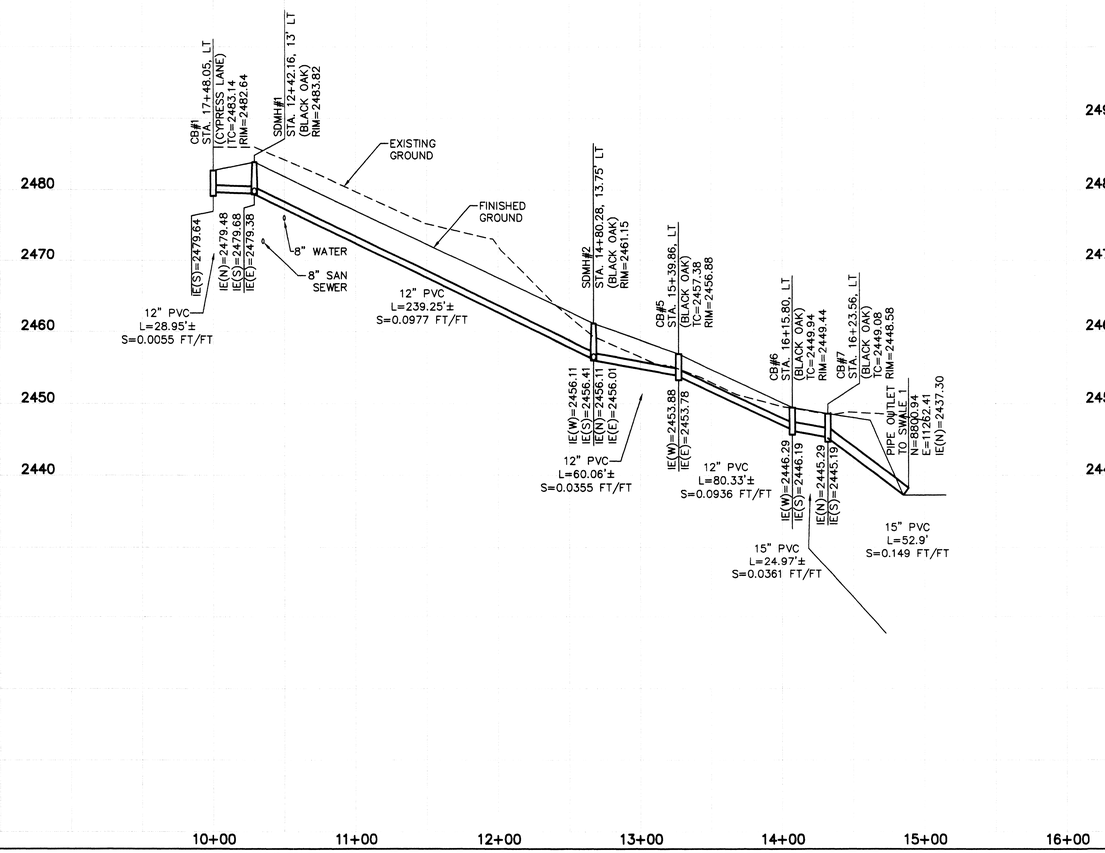
SURVEY PERFORMED 11/21/00
BASED ON WSDOT MONUMENT
GP 32290-143 AND GP 33290-147

NORTH
SCALE: 1" = 50'-0"

DEVELOPER'S APPROVAL | DATE

VERTICAL SCALE: 1"=10'



SPOKANE COUNTY ENGINEERS OFFICE
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PROJECT #: P 1729 O
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P-1729'0'

Eng As Built

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STORM LINE 'A'
PLAN AND PROFILE
SPOKANE COUNTY, WASHINGTON

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06/17/05	2	SECOND SUBMITTAL
07/14/06	3	RECORD DRAWING by ALLWEST TESTING AND ENGINEERING

STORM DRAIN PLAN & PROFILE

PROJECT #: S040181
DRAWN BY: JCR
DESIGNED BY: LDR
CHECKED BY: MLK

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SEC 31, T. 26 N., R. 44 E, W.M.
SPOKANE COUNTY, WASHINGTON

RECORD DRAWING

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SURVEY PERFORMED 11/21/00
BASED ON WSDOT MONUMENT
GP 32290-143 AND GP 33290-147

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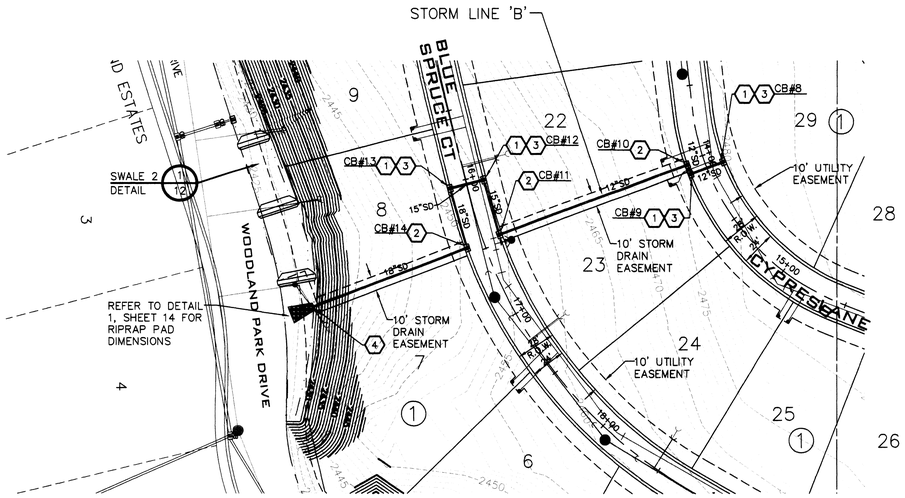
456·8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG



CONSTRUCTION NOTES

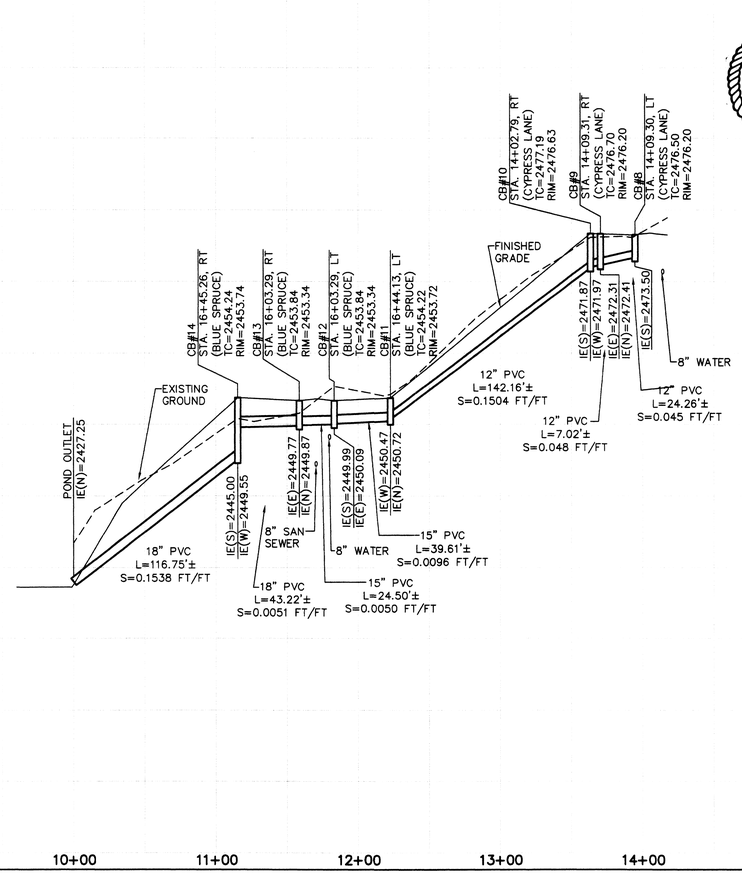
1. INSTALL TYPE 1 CATCH BASIN WITH TYPE 2 FRAME AND TYPE 3 GRATE WITH HOOD PER SPOKANE COUNTY STANDARD PLANS B-4, B-11 AND B-14.
2. INSTALL TYPE 1 CATCH BASIN WITH TYPE 1 FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLANS B-4, B-10 AND B-12.
3. CONSTRUCT CATCH BASIN IN SUMP TRANSITION PER DETAIL 1, SHEET 10.
4. INSTALL TRASH RACK. SEE DETAIL 5, SHEET 14.

NORTH 50 0 25 50
SCALE: 1" = 50'-0"

DEVELOPER'S APPROVAL | DATE

VERTICAL SCALE: 1"=10'

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: P1729 O
DATE ACCEPTED: 8/12/06



PAUL T. NELSON
STATE OF WASHINGTON
37228
REGISTERED
PROFESSIONAL ENGINEER
7-19-06
EXPIRES 11/24/07

I HAVE REVIEWED THE CONSTRUCTION AND TO MY KNOWLEDGE FIND IT TO BE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED CERTIFIED PLANS AND STANDARD SPECIFICATIONS EXCEPT AS NOTED.

CLC ASSOCIATES
12730 EAST MIRABEAU PARKWAY, SUITE 100
SPOKANE VALLEY WASHINGTON 99216
P 509 458 6840
F 509 458 6844
CLCABSCC.COM
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STREET AND STORM DRAINAGE PLANS
HIGH POINT - WOODLAND ESTATES
STORM LINE "B"
PLAN AND PROFILE
SPOKANE COUNTY, WASHINGTON

MARK L. KRIGBAUM
STATE OF WASHINGTON
39236
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES 6/14/07

PREPARED UNDER THE DIRECT SUPERVISION OF MARK L. KRIGBAUM WASHINGTON REGISTRATION NO. 39236 FOR AND ON BEHALF OF CLC ASSOCIATES

DATE	DESCRIPTION
06/17/04	ORIGINAL PREPARATION
06/17/05	SECOND SUBMITTAL
07/14/06	RECORD DRAWING by ALLWEST TESTING AND ENGINEERING

STORM DRAIN PLAN & PROFILE

PROJECT #: S040181
DRAWN BY: JCR
DESIGNED BY: LDR
CHECKED BY: MLK

P-17290 Eng As Built

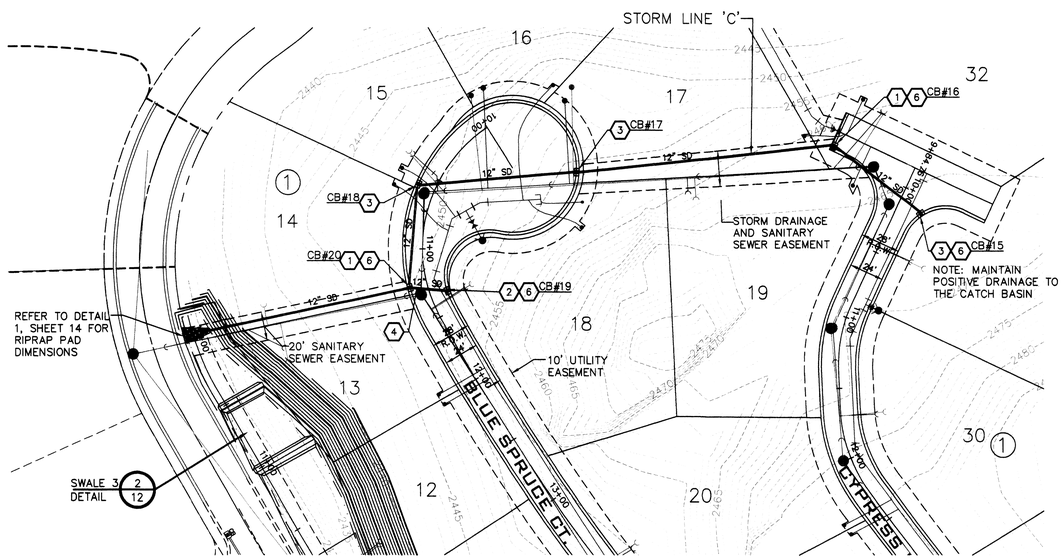
L:\205-108T High Point\dwg\asbuilt STREET p9.dwg, Plan, 7/12/2006 1:46:16 PM, 1:1

SEC 31, T. 26 N., R. 44 E, W.M.
SPOKANE COUNTY, WASHINGTON

RECORD DRAWING

NAVD'88 DATUM
ESTABLISHED ON-SITE BY GPS SURVEY PERFORMED 11/21/00 BASED ON WSDOT MONUMENT GP 32290-143 AND GP 33290-147

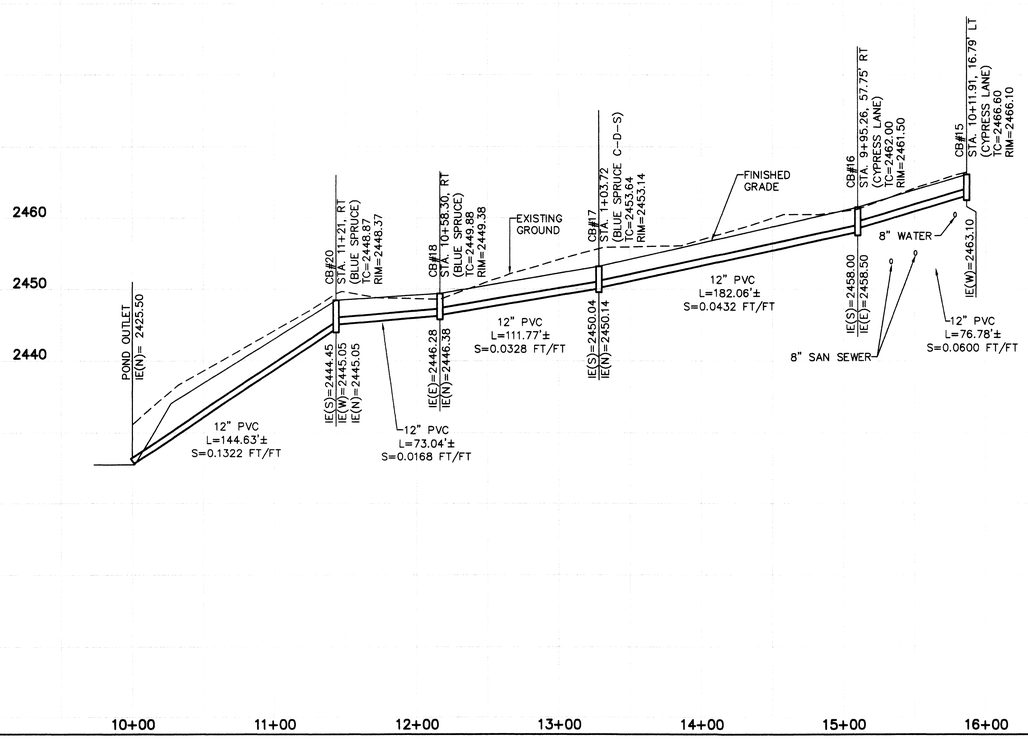
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456·8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG



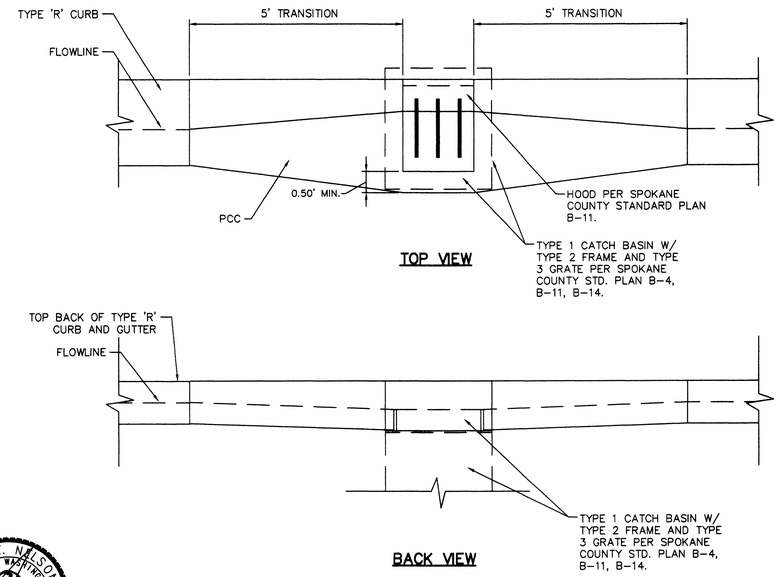
CONSTRUCTION NOTES

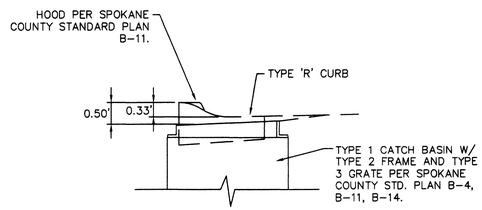
1. INSTALL TYPE 1 CATCH BASIN WITH TYPE 2 FRAME AND TYPE 3 GRATE WITH HOOD PER SPOKANE COUNTY STANDARD PLANS B-4, B-11 AND B-14.
2. STA. 11+34, LT (BLUE SPRUCE), INSTALL TYPE 1 CATCH BASIN WITH TYPE 2 FRAME AND AND TYPE 3 GRATE WITH HOOD PER SPOKANE COUNTY STANDARD PLANS B-4, B-11 AND B-14. TC=2448.99, RIM=2448.49, IE(S)=2445.49.
3. INSTALL TYPE 1 CATCH BASIN WITH TYPE 1 FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLANS B-4, B-10 AND B-12.
4. INSTALL APPROX. 26.00 L.F. OF 12" PVC STORM PIPE. IE(CB#19)=2445.49, IE(CB#20)=2445.05, S=0.0169 FT/FT.
5. NOT USED.
6. CONSTRUCT CATCH BASIN IN SUMP TRANSITION PER DETAIL 1, THIS SHEET.

VERTICAL SCALE: 1"=10'



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: P17290
DATE ACCEPTED: 8/2/06





SUMP GRATE TRANSITION DETAIL
NOT TO SCALE

1 / –

PAUL T. NILSON
STATE OF WASHINGTON
37228
REGISTERED PROFESSIONAL ENGINEER
7-18-06
EXPIRES 11/24/07

I HAVE REVIEWED THE CONSTRUCTION AND TO MY KNOWLEDGE FIND IT TO BE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED CERTIFIED PLANS AND STANDARD SPECIFICATIONS EXCEPT AS NOTED.

NORTH 50 0 25 50
SCALE: 1" = 50'-0"

DEVELOPER'S APPROVAL | DATE

P-17290 Eng As Builts

CLC ASSOCIATES
12730 EAST MIRABEAU PARKWAY
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LANDSCAPE ARCHITECTURE
LAND SURVEYING

STREET AND STORM DRAINAGE PLANS
HIGH POINT - WOODLAND ESTATES
STORM LINE "C"
PLAN AND PROFILE
SPOKANE COUNTY, WASHINGTON

MARK L. KRIGBAUM
STATE OF WASHINGTON
39236
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 6/14/07

PREPARED UNDER THE DIRECT SUPERVISION OF MARK L. KRIGBAUM WASHINGTON REGISTRATION NO. 39236 FOR AND ON BEHALF OF CLC ASSOCIATES

DATE		DESCRIPTION
06/17/04	-	ORIGINAL PREPARATION
06/17/05	-	SECOND SUBMITTAL
07/14/06	-	RECORD DRAWING by ALLWEST TESTING AND ENGINEERING

STORM DRAIN PLAN & PROFILE

PROJECT #: S040181
DRAWN BY: JCR
DESIGNED BY: LDR
CHECKED BY: MLK

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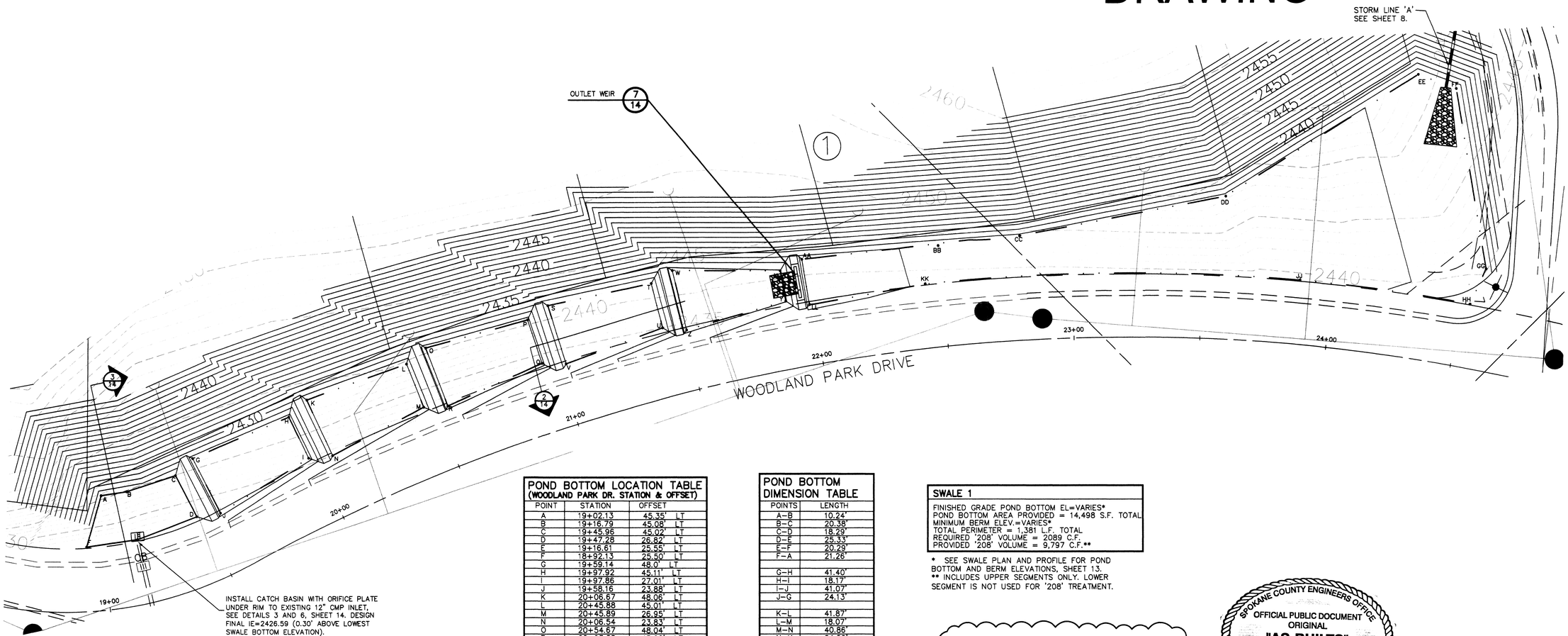
L:\205-108T High Point\dwg\asbuilt STREET p10.dwg, Plan, 7/12/2006 1:41:22 PM, 1:1

RECORD DRAWING



POND BOTTOM LOCATION TABLE
(WOODLAND PARK DR. STATION & OFFSET)

POINT	STATION	OFFSET
A	19+02.13	45.35' LT
B	19+16.79	45.08' LT
C	19+45.96	45.02' LT
D	19+47.28	26.82' LT
E	19+16.61	25.55' LT
F	18+92.13	25.50' LT
G	19+59.14	48.0' LT
H	19+97.92	45.11' LT
I	19+97.86	27.01' LT
J	19+58.16	23.88' LT
K	20+06.67	48.06' LT
L	20+45.88	45.01' LT
M	20+45.89	26.95' LT
N	20+06.54	23.83' LT
O	20+54.67	48.04' LT
P	20+93.85	45.02' LT
Q	20+93.91	26.95' LT
R	20+54.59	23.82' LT
S	21+02.68	48.04' LT
T	21+41.83	45.08' LT
U	21+41.86	26.97' LT
V	21+02.62	23.83' LT
W	21+50.62	48.04' LT
X	21+89.95	39.00' LT
Y	21+89.95	26.90' LT
Z	21+50.55	23.82' LT
AA	21+98.66	41.91' LT
BB	22+61.81	41.05' LT
CC	22+80.70	41.39' LT
DD	23+57.53	56.69' LT
EE	24+21.54	111.42' LT
FF	24+35.17	108.11' LT
GG	24+56.75	40.12' LT
HH	24+53.25	25.36' LT
JJ	23+87.45	25.50' LT
KK	22+43.62	25.50' LT
LL	21+98.77	23.96' LT

POND BOTTOM DIMENSION TABLE

POINTS	LENGTH
A–B	10.24'
B–C	20.38'
C–D	18.29'
D–E	25.33'
E–F	20.29'
F–A	21.26'
G–H	41.40'
H–I	18.17'
I–J	41.07'
J–G	24.13'
K–L	41.87'
L–M	18.07'
M–N	40.86'
N–K	24.22'
O–P	41.84'
P–Q	18.07'
Q–R	40.83'
R–O	24.22'
S–T	41.80'
T–U	18.10'
U–V	40.75'
V–S	24.21'
W–X	42.69'
X–Y	12.11'
Y–Z	40.90'
Z–W	24.22'
AA–BB	66.80'
BB–CC	20.03' R=91.56'
CC–DD	83.47'
DD–EE	90.02'
EE–FF	16.07'
FF–GG	72.03'
GG–HH	15.21'
HH–JJ	68.03' R=710.30'
JJ–KK	148.97' R=740'
KK–LL	46.62'
LL–AA	18.20'

SWALE 1

FINISHED GRADE POND BOTTOM EL=VARIES*
POND BOTTOM AREA PROVIDED = 14,498 S.F. TOTAL
MINIMUM BERM ELEV.=VARIES*
TOTAL PERIMETER = 1,381 L.F. TOTAL
REQUIRED '208' VOLUME = 2089 C.F.
PROVIDED '208' VOLUME = 9,797 C.F.**

* SEE SWALE PLAN AND PROFILE FOR POND BOTTOM AND BERM ELEVATIONS, SHEET 13.
** INCLUDES UPPER SEGMENTS ONLY. LOWER SEGMENT IS NOT USED FOR '208' TREATMENT.

PONDS ROUGH GRADED ONLY AT TIME OF CERTIFICATION. POND VOLUME ON 3/26/06 = 11892 CF

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: P17290
DATE ACCEPTED: 8/2/06

PAUL T. NELSON
STATE OF WASHINGTON
37228
REGISTERED
PROFESSIONAL ENGINEER
7-19-06
EXPIRES 11/24/07

I HAVE REVIEWED THE CONSTRUCTION AND TO MY KNOWLEDGE FIND IT TO BE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED CERTIFIED PLANS AND STANDARD SPECIFICATIONS EXCEPT AS NOTED.

SWALE 1 DETAIL
SCALE: 1" = 20'

1

NORTH

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

CAUTION: NOTICE TO CONTRACTOR

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 ON 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. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

NAVD '88 DATUM
PROJECT TBM IS W.S.D.O.T. BRASS CAP IN CONCRETE IDENTIFIED AS GP32027-256 ELEV=2045.17

DEVELOPER'S APPROVAL DATE

P-17290 Eng As Builts

CLC ASSOCIATES
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SUITE 100
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WASHINGTON 99216
P 509 458 6840
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STREET AND STORM DRAINAGE PLANS

HIGH POINT - WOODLAND ESTATES
POND DETAIL SHEET
SPOKANE COUNTY, WA

MARK L. KRIGBAUM
STATE OF WASHINGTON
39236
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES 6/14/07

PREPARED UNDER THE DIRECT SUPERVISION OF MARK L. KRIGBAUM WASHINGTON REGISTRATION NO. 39236 FOR AND ON BEHALF OF CLC ASSOCIATES

DATE	DESCRIPTION
12/03/04	ORIGINAL PREPARATION
06/17/05	SECOND SUBMITTAL
07/14/06	RECORD DRAWING by ALLWEST TESTING AND ENGINEERING

SWALE DETAILS

PROJECT #: S040181
DRAWN BY: LDR
DESIGNED BY: LDR
CHECKED BY: MLK

L:\205-108T High Point\dwg\asbuilt STREET p11-12-14.dwg, DETAILS-11, 7/12/2006 1:35:43 PM, 1:1

RECORD DRAWING

SWALE 2
FINISHED GRADE POND BOTTOM EL=VARIES*
POND BOTTOM AREA PROVIDED = 3975 S.F.
MINIMUM BERM ELEV.=VARIES*
TOTAL PERIMETER = 649 L.F.
REQUIRED '208' VOLUME = 1161 C.F.
PROVIDED '208' VOLUME = 2150 C.F.

* SEE SWALE PLAN AND PROFILE FOR POND BOTTOM AND BERM ELEVATIONS, SHEET 13.

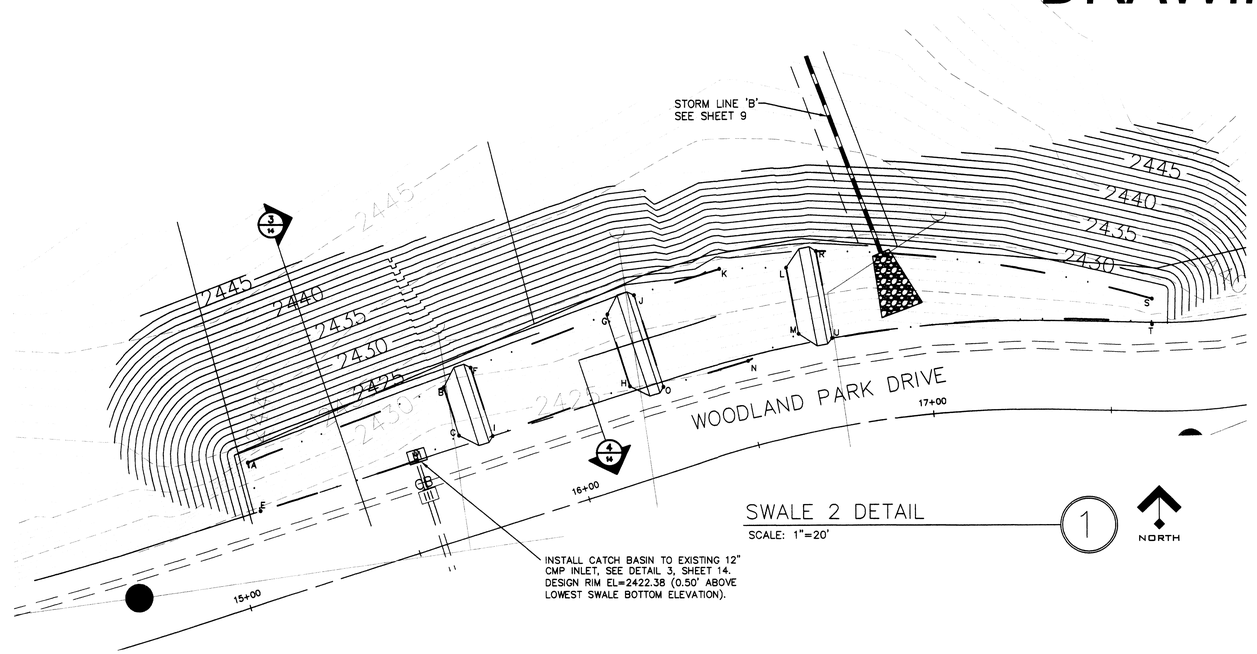
POND BOTTOM LOCATION TABLE (WOODLAND PARK DR. STATION & OFFSET)

POINT	STATION	OFFSET
A	15+11.64	39.00' LT
B	15+70.68	42.27' LT
C	15+70.53	28.02' LT
D	15+57.18	25.02' LT
E	15+10.89	25.02' LT
F	15+79.50	45.22' LT
G	16+20.70	47.69' LT
H	16+20.59	26.56' LT
I	15+79.51	25.02' LT
J	16+29.51	50.47' LT
K	16+51.70	50.57' LT
L	16+67.50	46.63' LT
M	16+67.29	28.0' LT
N	16+53	23.77' LT
O	16+29.55	23.56' LT
P	NOT USED	–
Q	NOT USED	–
R	16+75.33	49.63' LT
S	17+60.52	31.54' LT
T	17+60.93	24.50' LT
U	16+75.55	25.00' LT

POND BOTTOM DIMENSION TABLE

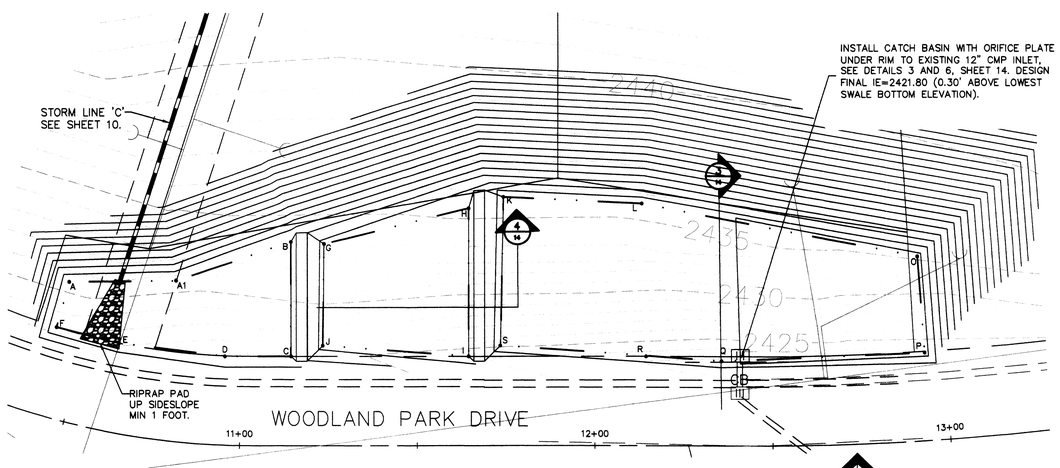
POINTS	LENGTH
A–B	59.13'
B–C	14.26'
C–D	13.68'
D–E	46.29'
E–A	14.01'
F–G	41.28'
G–H	21.13'
H–I	41.11'
I–F	20.20'
J–K	25.09'
K–L	18.77'
L–M	18.63'
M–N	16.08'
N–O	24.91'
O–P	18.63'
P–Q	16.08'
Q–N	26.84'
R–S	95.68' R=344.95
S–T	6.55'
T–U	90.12' R=373.25
U–R	24.63'

POND'S ROUGH GRADED ONLY AT TIME OF CERTIFICATION. POND VOLUME ON 3/26/06 = 2199 CF



SWALE 2 DETAIL (1)
SCALE: 1"=20'

NORTH



SWALE 3 DETAIL (2)
SCALE: 1"=20'

NORTH

SWALE 3
FINISHED GRADE POND BOTTOM EL=VARIES*
POND BOTTOM AREA PROVIDED = 7,179 S.F.
MINIMUM BERM ELEV=VARIES*
TOTAL PERIMETER = 632 L.F.
REQUIRED '208' VOLUME = 1434 C.F.
PROVIDED '208' VOLUME = 2,818 C.F. **

* SEE SWALE PLAN AND PROFILE FOR POND BOTTOM AND BERM ELEVATIONS, SHEET 13.

** ONLY 0.30' OF LOWEST SWALE SEGMENT USED FOR '208'.

POND BOTTOM LOCATION TABLE ((STREET NAME) STATION & OFFSET)

POINT	STATION	OFFSET
A	10+40.04	38.00' LT
A1	10+76.73	44.61' LT
B	11+14.47	56.68' LT
C	11+14.53	25.00' LT
D	10+94.97	24.86' LT
E	10+60.91	25.00' LT
F	10+40.40	25.00' LT
G	11+23.79	56.08' LT
H	11+64.44	66.14' LT
I	11+64.42	25.00' LT
J	11+23.41	28.00' LT
K	11+74.24	69.30' LT
L	12+13.12	67.44' LT
M	NOT USED	–
N	NOT USED	–
O	12+93.80	51.35' LT
P	12+94.18	24.65' LT
Q	12+35.51	23.71' LT
R	11+73.41	28.0' LT

POND BOTTOM DIMENSION TABLE

POINTS	LENGTH
A–B	62.23'
B–C	21.02'
C–D	18.52'
D–E	29.98'
E–F	18.06'
F–A	13.00'
G–H	41.88'
H–I	41.14'
I–J	41.12'
J–G	28.09'
K–L	38.93'
L–M	78.74'
O–P	26.71'
P–Q	57.10'
Q–R	62.25'

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: P17290
DATE ACCEPTED: 8/2/06

PAUL T. NELSON
STATE OF WASHINGTON
37228
REGISTERED
PROFESSIONAL ENGINEER
7-19-06
EXPIRES 11/24/07

I HAVE REVIEWED THE CONSTRUCTION AND TO MY KNOWLEDGE FIND IT TO BE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED CERTIFIED PLANS AND STANDARD SPECIFICATIONS EXCEPT AS NOTED.

POND'S ROUGH GRADED ONLY AT TIME OF CERTIFICATION. POND VOLUME ON 3/26/06 = 3842 CF

UNDERGROUND SERVICE ALERT
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NAVD '88 DATUM

PROJECT TBM IS W.S.D.O.T. BRASS CAP IN CONCRETE IDENTIFIED AS GP32027–256 ELEV=2045.17

DEVELOPER'S APPROVAL — DATE

P-17290 Eng As Built

CLC ASSOCIATES
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SPOKANE VALLEY
WASHINGTON 99216
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F 509 458 6844
CLCASSOC.COM
ARCHITECTURE
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STREET AND STORM DRAINAGE PLANS

HIGH POINT - WOODLAND ESTATES
POND DETAIL SHEET
SPOKANE COUNTY, WA

MARK L. KRIGBAUM
STATE OF WASHINGTON
39236
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES 6/14/07

PREPARED UNDER THE DIRECT SUPERVISION OF MARK L. KRIGBAUM WASHINGTON REGISTRATION NO. 39236 FOR AND ON BEHALF OF CLC ASSOCIATES

DATE	DESCRIPTION
12/03/04	ORIGINAL PREPARATION
06/17/05	SECOND SUBMITTAL
07/14/06	RECORD DRAWING by ALLWEST TESTING AND ENGINEERING

POND DETAILS

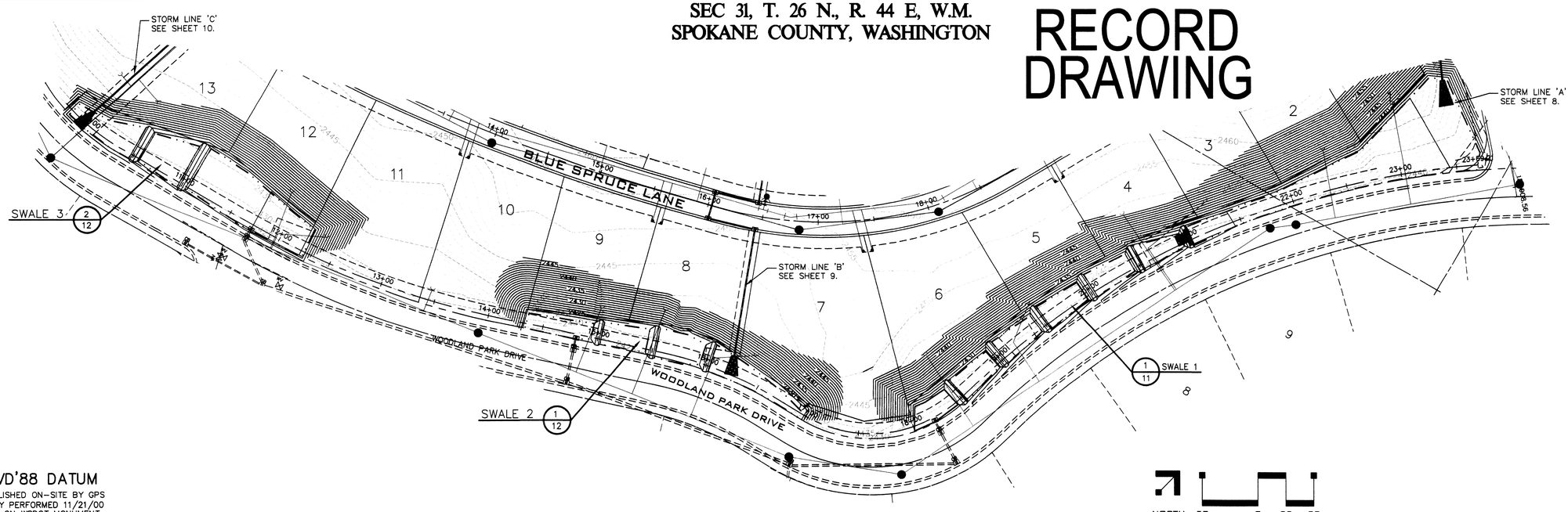
PROJECT #:S040181
DRAWN BY: LDR
DESIGNED BY: LDR
CHECKED BY: MLK

L:\205-108T High Point\dwg\asbuilt STREET p11-12-14.dwg, DETAILS-12, 7/12/2006 1:36:08 PM, 1:1

SEC 31, T. 26 N., R. 44 E, W.M.
SPOKANE COUNTY, WASHINGTON

RECORD DRAWING

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



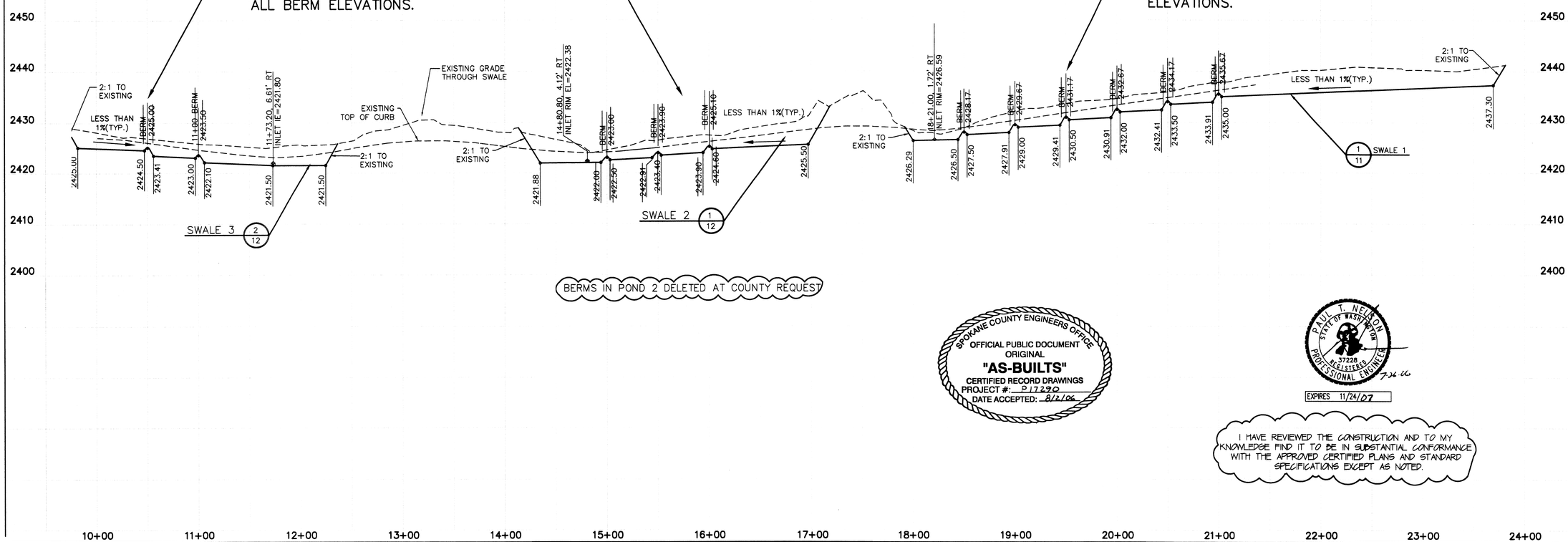
NAVD'88 DATUM
ESTABLISHED ON-SITE BY GPS SURVEY PERFORMED 11/21/00 BASED ON WSDOT MONUMENT GP 32290-143 AND GP 33290-147

DEVELOPER'S APPROVAL | DATE

VERTICAL SCALE: 1"=10'

NOTE: ALL SWALE '2' AND ~~'1'~~ OVERFLOW BERMS ARE TO BE ONE (1) FOOT BELOW EXISTING TOP OF CURB. CONTRACTOR TO VERIFY ALL BERM ELEVATIONS.

NOTE: ALL SWALE 1 OVERFLOW BERMS ARE TO BE 10" (0.83 FOOT) BELOW EXISTING TOP OF CURB. CONTRACTOR TO VERIFY ALL BERM ELEVATIONS.



BERMS IN POND 2 DELETED AT COUNTY REQUEST

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: P17290
DATE ACCEPTED: 8/2/06

PAUL T. NELSON
STATE OF WASHINGTON
37228
REGISTERED PROFESSIONAL ENGINEER
7-26-06
EXPIRES 11/24/07

I HAVE REVIEWED THE CONSTRUCTION AND TO MY KNOWLEDGE FIND IT TO BE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED CERTIFIED PLANS AND STANDARD SPECIFICATIONS EXCEPT AS NOTED.

P-17290

Eng As-Builts

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STREET AND STORM DRAINAGE PLANS
HIGH POINT -
WOODLAND ESTATES
DRAIANGE SWALES
PLAN AND PROFILE
SPOKANE COUNTY, WASHINGTON

MARK L. KRIGBAUM
STATE OF WASHINGTON
39236
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 6/14/07

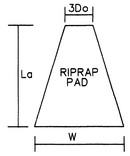
PREPARED UNDER THE DIRECT SUPERVISION OF MARK L. KRIGBAUM WASHINGTON REGISTRATION NO. 39236 FOR AND ON BEHALF OF CLC ASSOCIATES

DATE	DESCRIPTION
06/17/04	ORIGINAL PREPARATION
06/17/05	SECOND SUBMITTAL
07/14/06	RECORD DRAWING by ALLWEST TESTING AND ENGINEERING

SWALE PLAN & PROFILE

PROJECT #: S040181
DRAWN BY: JCR
DESIGNED BY: LDR
CHECKED BY: MLK

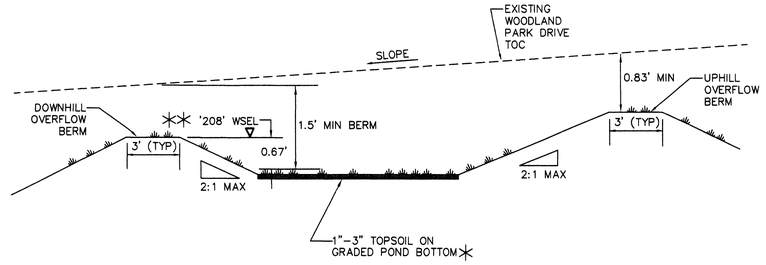
NOTE: RIPRAP PAD MUST BE INSTALLED WITH FILTER FABRIC (AMOCO OR EQUAL) BETWEEN THE NATIVE SOIL AND THE WASHED DRAIN ROCK.



RIPRAP PAD DIMENSIONS

SWALE	3Do	La	W	STONE SIZE	THICK.
1 (PIPE OUTLET)	4'	23'	13'	8" MIN.	1'
2 (PIPE OUTLET)	5'	17'	12'	8" MIN.	1'
3 (PIPE OUTLET)	3'	20'	11'	8" MIN.	1'

TYPICAL RIPRAP PAD
NOT TO SCALE
1



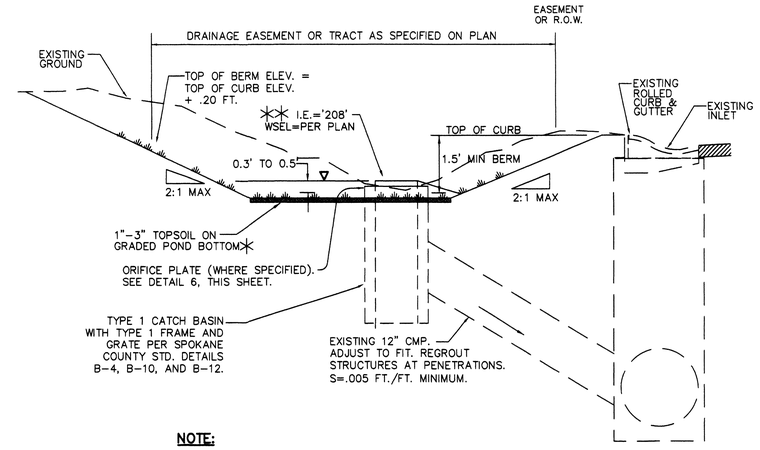
NOTE:

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

** NOTE:

DUE TO THE PROPOSAL TO UTILIZE 8 INCHES VERSUS 6 INCHES OF PONDED WATER QUALITY TREATMENT DEPTH, PRIOR TO FINAL CERTIFICATION OF THESE ROAD AND DRAINAGE FACILITIES, THE WATER TREATMENT SOIL NEEDS TO BE TESTED. THE SOIL IN THE 208 TREATMENT AREA(S) MUST HAVE AN AVERAGE CATION EXCHANGE CAPACITY OF 15 MILLIEQUIVALENTS/100 GRAMS OR MUST BE A MINIMUM OF 2% ORGANIC CARBON. ONE TEST FOR CEC AND ORGANIC MATTER SHALL BE PERFORMED FOR THE FIRST 1500 S.F. OF POND BOTTOM AREA, AND AN ADDITIONAL SET OF TESTS IS REQUIRED FOR EACH ADDITIONAL 2000 S.F. OF POND BOTTOM AREA, OR FRACTION THEREOF. TESTS SHALL BE PERFORMED ON A WELL-MIXED COMPOSITE SAMPLE CONSISTING OF THE TOP SIX (6) INCHES OF SOIL FROM AT LEAST FOUR (4) CORES UNIFORMLY DISTRIBUTED OVER THE AREA BEING TESTED (I.E., FOR A 9,500 S.F. POND BOTTOM, FOUR SETS OF TESTS OR 16 CORES WOULD BE REQUIRED). NOTE THAT IF THE SOIL IS AMENDED DURING CONSTRUCTION, SOIL CEC AND ORGANIC MATTER DATA MUST BE SUBMITTED FROM THE SOIL SUPPLIER AS PART OF THE CERTIFICATION PACKAGE; IF THE SOIL TESTED POST-CONSTRUCTION, THOSE TESTS SHALL BE SUBMITTED AS PART OF THE CERTIFICATION PACKAGE.

TYPICAL SWALE '1' OVERFLOW BERM CROSS-SECTION FOR UPPER SWALE SEGMENTS
NOT TO SCALE
2



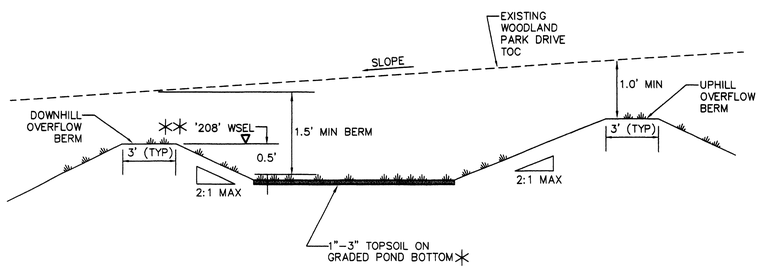
NOTE:

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

** ORGANIC CARBON TESTING IS REQUIRED FOR THE TOPSOIL IF THE LOWEST OUTLET IS GREATER THAN 0.5' ABOVE SOD

TYPICAL SWALE 1, 2 AND 3 CROSS-SECTION WITH '208' FOR SEGMENT WITH PIPE INLET DISCHARGE
NOT TO SCALE
3

RECORD DRAWING

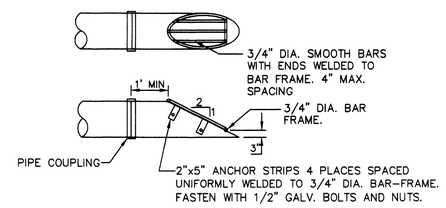


NOTE:

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

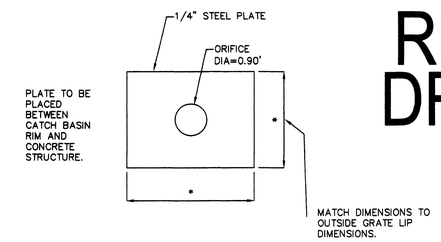
** ORGANIC CARBON TESTING IS REQUIRED FOR THE TOPSOIL IF THE LOWEST OUTLET IS GREATER THAN 0.5' ABOVE SOD

TYPICAL SWALE '2' AND '3' OVERFLOW BERM CROSS-SECTION FOR UPPER SWALE SEGMENTS
NOT TO SCALE
4



NOTE: ALL STEEL PARTS MUST BE GALVANIZED AND ASPHALT COATED (TREATMENT 1 OR BETTER) REFER TO FIGURE 39 IN SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT.

TRASH RACK DETAIL
NOT TO SCALE
5

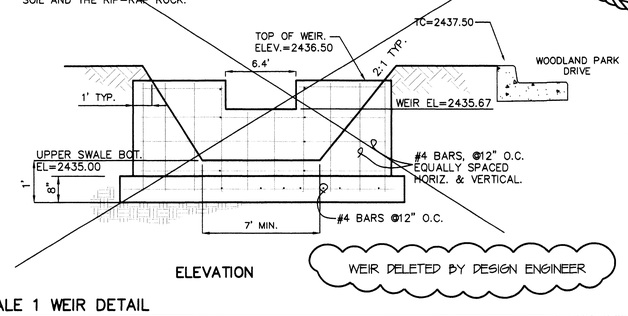


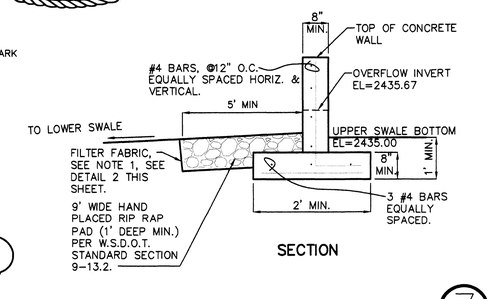
ORIFICE PLATE
NOT TO SCALE
6

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: P1729 O
DATE ACCEPTED: 8/2/06

GENERAL NOTES

1. RIP-RAP PAD MUST BE INSTALLED WITH FILTER FABRIC (AMOCO OR EQUAL) BETWEEN THE NATIVE SOIL AND THE RIP-RAP ROCK.





SWALE 1 WEIR DETAIL
NOT TO SCALE
7

PAUL T. NELSON
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7-19-06
EXPIRES 11/24/07

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

CAUTION: NOTICE TO CONTRACTOR

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 ON 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. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

NAVD '88 DATUM
PROJECT TBM IS W.S.D.O.T. BRASS CAP IN CONCRETE IDENTIFIED AS GP32027-256 ELEV=2045.17

DEVELOPER'S APPROVAL | DATE

P-1729 O
Eng As Built

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STREET AND STORM DRAINAGE PLANS

HIGH POINT - WOODLAND ESTATES
POND DETAIL SHEET
SPOKANE COUNTY, WA

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EXPIRES 6/14/07

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DATE	DESCRIPTION
12/03/04	ORIGINAL PREPARATION
06/17/05	SECOND SUBMITTAL
07/14/06	RECORD DRAWING by ALLWEST TESTING AND ENGINEERING

POND DETAILS

PROJECT #: S040181
DRAWN BY: LDR
DESIGNED BY: LDR
CHECKED BY: MLK

L:\205-108T High Point\dwg\asbuilt STREET p11-12-14.dwg, DETAILS-14, 7/19/2006 1:04:07 PM, 1:1