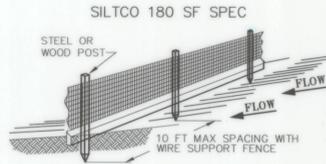


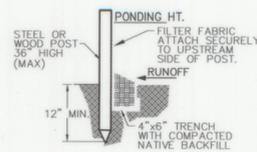
SILT FENCE DETAIL

NOT TO SCALE



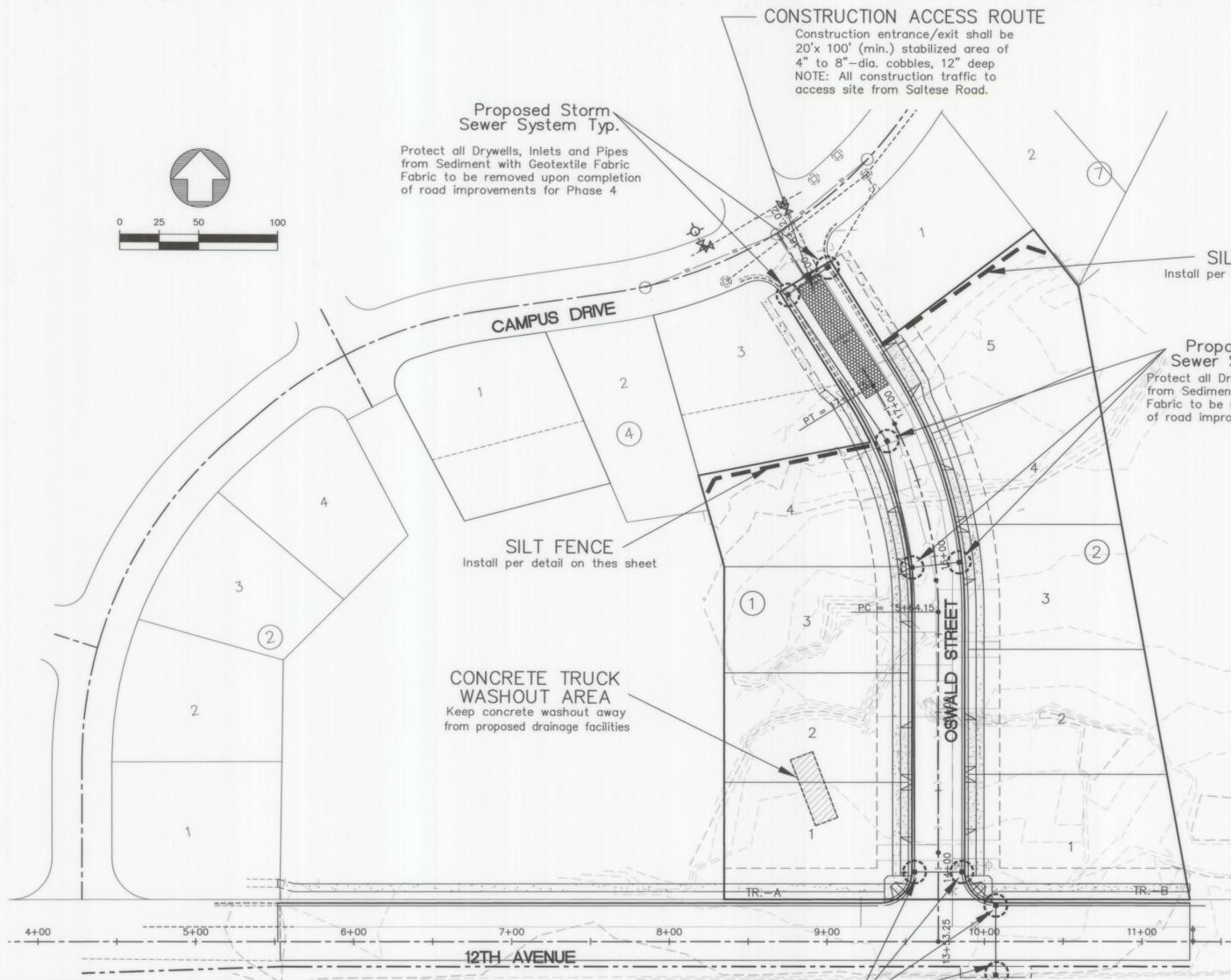
SILT FENCE SECTION

NOT TO SCALE



SILT FENCE NOTES

1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
4. TEMPORARY SILT FENCE LOCATION SHOWN ON THIS PLAN IS SCHEMATIC IN NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING ALL SILT RUNOFF DURING CONSTRUCTION.



CONSTRUCTION ACCESS ROUTE

Construction entrance/exit shall be 20'x 100' (min.) stabilized area of 4" to 8"-dia. cobbles, 12" deep
NOTE: All construction traffic to access site from Saltese Road.

Proposed Storm Sewer System Typ.

Protect all Drywells, Inlets and Pipes from Sediment with Geotextile Fabric. Fabric to be removed upon completion of road improvements for Phase 4

SILT FENCE
Install per detail on this sheet

Proposed Storm Sewer System Typ.
Protect all Drywells, Inlets and Pipes from Sediment with Geotextile Fabric. Fabric to be removed upon completion of road improvements for Phase 4

SILT FENCE
Install per detail on this sheet

CONCRETE TRUCK WASHOUT AREA
Keep concrete washout away from proposed drainage facilities

Proposed Storm Sewer System Typ.

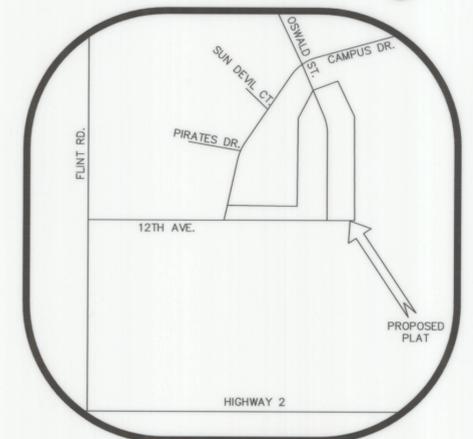
Protect all Drywells, Inlets and Pipes from Sediment with Geotextile Fabric. Fabric to be removed upon completion of road improvements for Phase 4

PILLAR ROCK ESTATES 4TH ADDITION

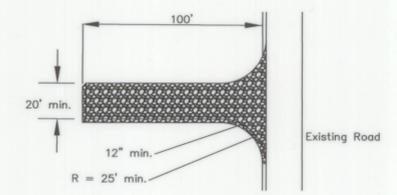
PW-1959-05

A PLAT IN A PORTION OF THE NW1/4 OF OF THE SW1/4 OF SECTION 20, T.25 N., R.42 E.W.M. SPOKANE COUNTY, WASHINGTON

VICINITY MAP - N.T.S.



Stabilized Construction Entrance



- * Material should be quarry spalls (where feasible), 4 inches to 8 inches size.
- * The rock pad shall be at least 12 inches thick and 100 feet in length for sites more than 1 acre; and may be reduced to 50 feet in length for sites less than 1 acre. Site is approximately 19.3 acres.
- * Width shall be the full length of the vehicle egress area (minimum 20 feet).
- * Additional rock should be added periodically to maintain proper function of the pad.
- * See figure II-5.4 per Spokane County Stormwater Management Manual.

TEMPORARY EROSION AND SEDIMENT CONTROL NOTES

1. The following construction sequence shall be followed in order to best minimize the potential for erosion and sediment control problems:
 - (a) Clear and grub and rough grade sufficiently of temporary ESC BMPs;
 - (b) Install temporary ESC BMPs, constructing sediment trapping BMPs as one of the first steps prior to grading;
 - (c) Clear, grub and rough grade for roads, temporary access and utility locations;
 - (d) Stabilize roadway approaches and temporary access points with the appropriate construction entry BMP;
 - (e) Clear, grub and grade individual lots or groups of lots;
 - (f) Temporarily stabilize, through re-vegetation or other appropriate BMPs, lots or groups of lots in situations where substantial cut or fill slopes are a result of the site grading;
 - (g) Construct roads, buildings, permanent stormwater facilities (i.e. inlets, ponds, UIC facilities, etc.);
 - (h) Protect all permanent stormwater facilities utilizing the appropriate BMPs;
 - (i) Install permanent ESC controls, when applicable; and,
 - (j) Remove temporary ESC controls when:
2. Permanent ESC controls, when applicable, have been completely installed;
3. All land-disturbing activities that have the potential to cause erosion or sedimentation problems have ceased; and,
4. Vegetation has been in the areas noted as requiring vegetation on the accepted ESC plan on file with the local jurisdiction.
5. Inspect all roadways, at the end of each day, adjacent to the construction access route. If it is evident that sediment has been tracked off site and/or beyond the roadway approach, cleaning is required.
6. If sediment removal is necessary prior to street washing, it shall be removed by shoveling or pickup sweeping and transported to a controlled sediment disposal area.
7. If street washing is required to clean sediment tracked off site, once sediment has been removed, street wash wastewater shall be controlled by pumping back on-site or otherwise prevented from discharging into systems tributary to waters of the state.
8. Restore construction access route equal to or better than the pre-construction condition.
9. Retain the duff layer, native topsoil, and natural vegetation in an undisturbed state to the maximum extent practical.
10. Inspect sediment control BMPs weekly at a minimum, daily during a storm event, and after any discharge from the site (stormwater are non-stormwater). The inspection frequency may be reduced to once a month if the site is stabilized and inactive.
11. Control fugitive dust from construction activity in accordance with the state and/or local air qualities with jurisdiction over the project area.
12. Stabilize exposed unworked soils (including stockpiles), whether at final grade or not, within 10 days during the regional dry season (July 1 through September 30) and within 5 days during the regional wet season (October 1 through June 30). Soils must be stabilized at the end of a shift before a holiday weekend if needed based on the weather forecast. This time limit may not only be adjusted by a local jurisdiction with a "Qualified Local Program," if it can be demonstrated that the recent precipitation justifies a different standard and meets the requirements set forth in the Construction Stormwater General Permit.
13. Protect inlets, drywells, catch basins and other stormwater management facilities from sediment, whether or not facilities are operable.
14. Keep roads adjacent to inlets clean.
15. Inspect inlets weekly at a minimum and daily during storm events.
16. Construct stormwater facilities (detention/retention storage pond or swales) before grading begins. These facilities shall be operational before the construction of impervious site improvements.
17. Stockpile materials (such as topsoil) on site, keeping off of roadway and sidewalks.
18. Cover, contain and protect ass chemicals, liquid products, petroleum product, and non-inert wastes present on site from vandalism (see Chapter 173-304 WAC for the definition of inert waste), use secondary containment for on-site fueling tanks.
19. Conduct maintenance and repair of heavy equipment and vehicles involving oil changes, hydraulic system repairs, solvent and de-greasing operations, fuel tank drain down and removal, and other activities that may result in discharge or spillage of pollutants to the ground or into stormwater runoff using spill prevention measures, such as drip pans. Clean all contaminated surfaces immediately following any discharge or spill incident. If raining over equipment or vehicle, perform emergency repairs n site using temporary plastic beneath the vehicle.
20. Conduct application of agricultural chemicals, including fertilizers and pesticides, in such a manner, and at application rates, that inhibits the loss of chemicals into stormwater runoff facilities. Amend manufacturer's recommended application rates and procedures to meet this requirement, if necessary.
21. Inspect on a regular basis (at a minimum weekly, and daily a runoff producing storm event) and maintain all erosion and sediment control BMPs to ensure successful performance of the BMPs. Note that inlet protection devices shall be cleaned or removal and replace before six inches of sediment can accumulate.
22. Remove temporary ESC BMPs within 30 days after the temporary BMPs are no longer needed. Permanently stabilize areas that are disturbed during the removal process.
23. A site log shall be completed with the project per S55.4.

ENGINEER'S CERTIFICATION FOR ESC PLAN

THE RECOMMENDED PROVISIONS SHOWN IN THIS EROSION & SEDIMENT CONTROL PLAN MEET THE APPLICABLE REQUIREMENTS FOR ESC PLANS AS LISTED IN CHAPTER 9 OF THE 2008 REGIONAL STORMWATER MANAGEMENT. I APPROVE THIS PLAN FOR CONSTRUCTION.

Alan Singer 1/11/16
DESIGN ENGINEER DATE

BLH 1-8-2016
DEVELOPER DATE

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL CONSTRUCTION PLANS
PROJECT #: P-195917
DATE ACCEPTED: 01-17-16
ACCEPTANCE EXPIRES: 01-16-18
PROJECT LANE MILES PUBLIC: 1.59
PROJECT LANE MILES PRIVATE: 0
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

UTILITY LOCATE NOTE:
ALL UTILITIES SHALL BE LOCATED PRIOR TO CONSTRUCTION.
• CALL 2 BUSINESS DAYS BEFORE YOU DIG
• 811 OR 1-800-424-5555

NOTE:
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MJK	DATE	REVISIONS / AS BUILT
MJK	9-23-2015	ADDRESS COMMENTS - SECOND SUBMITTAL TO SPO. CO.
MJK	12-15-2015	WIDEN 12TH AVENUE FOR IMPROVEMENTS TO THE SOUTH - THIRD SUBMITTAL TO SPO. CO.
MJK	12-23-2015	DITCH AND CB#9 LOCATION REVISIONS - FORTH SUBMITTAL TO SPO. CO.
MJK	1-11-2016	APPROVED MYLAR PLANS TO SPO. CO.

BENCH MARK	SCALE	DATE
ELEVATION 2295.42 (NAVOD88 DATUM)	HORIZONTAL 1"=50'	1-11-2016
DESCRIPTION SEWER MANHOLE RIM LOCATED IN THE INTERSECTION OF CAMPUS DRIVE & OSWALD STREET	VERTICAL 1"=10'	1/11/16



Simpson Engineers, Inc.
CIVIL ENGINEERS & LAND SURVEYORS
N. 909 ARGONNE ROAD, SPOKANE VALLEY WA., 99212-2789
PHONE (509) 926-1322 FAX (509) 926-1323

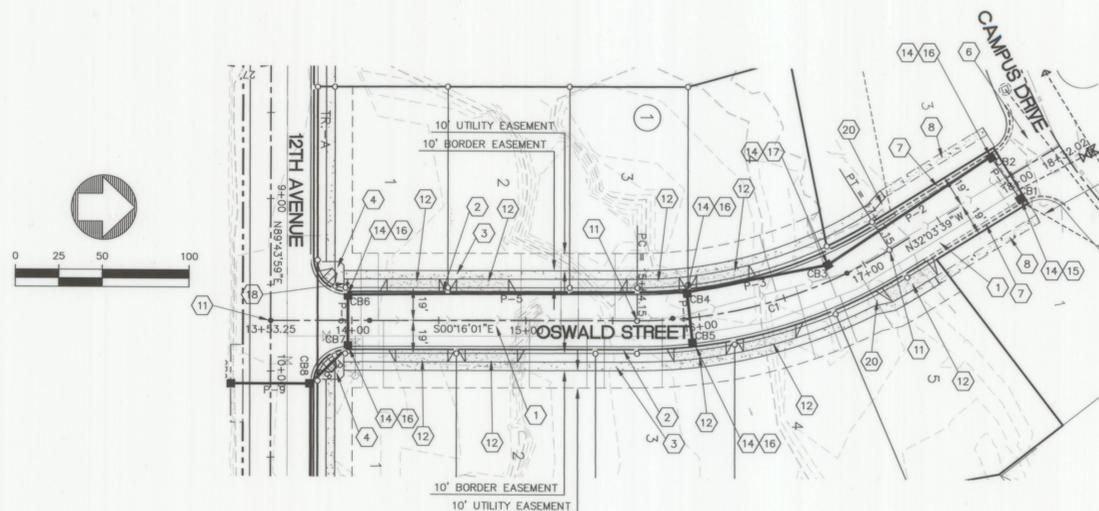
TYPE OF IMPROVEMENT:	
ESC	
PROJECT NUMBER	SHEET NUMBER
16332	C1.1

PILLAR ROCK ESTATES - 4TH ADDITION
EROSION AND SEDIMENT CONTROL PLAN
THE SW1/4 OF SECTION 20, T.25 N, R.42 E.W.M.

PILLAR ROCK ESTATES 4TH ADDITION

PW-1959-05

A PLAT IN A PORTION OF THE NW1/4 OF OF
THE SW1/4 OF SECTION 20, T.25 N., R.42 E.W.M.
SPOKANE COUNTY, WASHINGTON

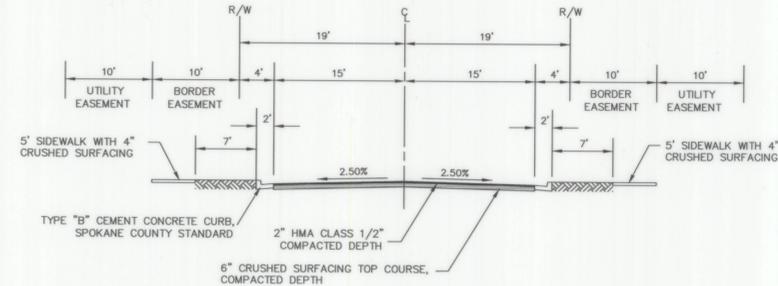


EXISTING 18" CPEP STORM PIPE
L=58', S=1.0%, I.E.(S): 2290.20
STUB LOCATION TO BE VERIFIED BY
CONTRACTOR DUE TO INSUFFICIENT
ASBUILT LOCATION INFORMATION

- EXISTING STORM PIPE DRAINS TO AN EXISTING STORM SYSTEM CONVEYING STORMWATER TO EXISTING DETENTION POND FOR PILLAR ROCK ESTATES - PHASE 1 FOR TREATMENT AND DISPOSAL

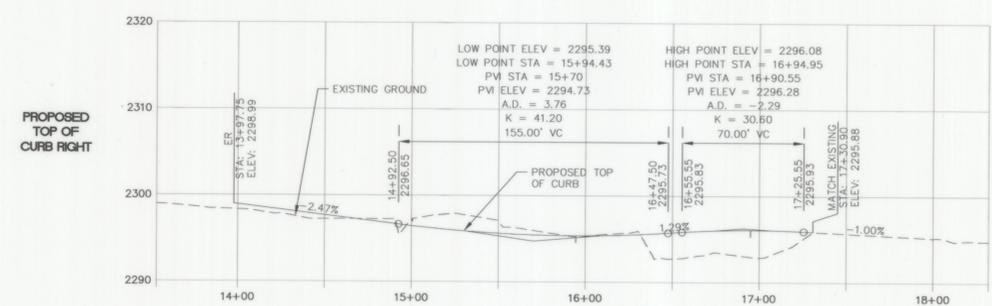
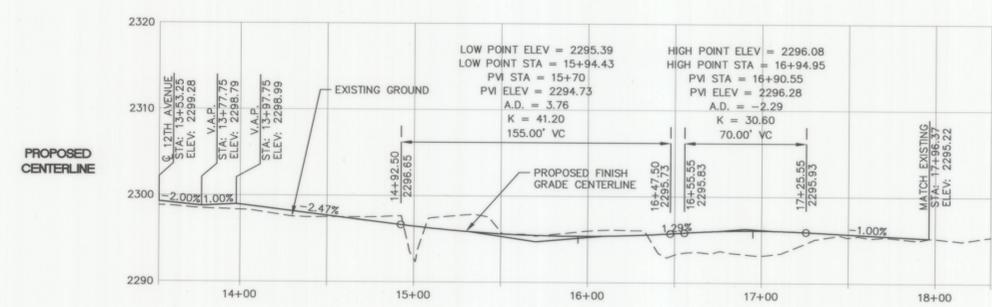
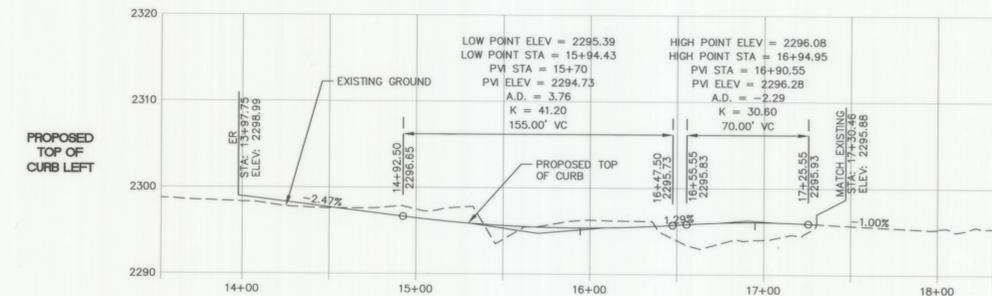
CENTERLINE INFORMATION

CURVE	LENGTH	DELTA	RADIUS	TANGENT
C1	153.00'	31°52'41"	275.00'	78.54'



TYPICAL SECTION: OSWALD STREET

NOT TO SCALE
REFERENCE GEOTECHNICAL EVALUATION
PREPARED BY INTERMOUNTAIN MATERIALS
TESTING & GEOTECHNICAL, DATED
NOVEMBER 13, 2015



CONSTRUCTION NOTES - STREET PLANS - SPOKANE COUNTY

- 1 INSTALL ASPHALT CONCRETE PAVEMENT PER SPO. CO. STDS.
- 2 INSTALL CONCRETE CURB AND GUTTER PER SPO. CO. STD. SHEET A-3
- 3 INSTALL 5' SIDEWALK PER SPO. CO. STD. SHEET A-1
- 4 INSTALL CURB RAMP PER SPO. CO. STD. SHEET A-5
- 5 CONSTRUCT ROAD SIDE V-DITCH PER STREET CROSS SECTION DETAIL
- 6 EXISTING ASPHALT PAVEMENT
- 7 EXISTING TYPE "B" CURB
- 8 EXISTING 5' WIDE CONCRETE SIDEWALK
- 9 INSTALL CURB INLET TYPE 1 PER SPO. CO. STD. SHEET B-8
- 10 END TYPE "B" CURB, CONSTRUCT 3' LONG NOSE DOWN
- 11 CENTERLINE MONUMENT TO BE SET BY PLS, AS SHOWN ON FINAL PLAT
- 12 CONSTRUCT 30' WIDE CONCRETE DRIVEWAY PER SPO. CO. STD. SHEET A-4
- 13 CONSTRUCT EDGE OF PAVEMENT ANGLE POINT
- 14 INSTALL CATCH BASIN 1 PER SPO. CO. STD. SHEET B-4 & B-7
- 15 INSTALL METAL FRAME AND GRATE TYPE 1 PER SPO. CO. STDS. SHEET B-12
- 16 INSTALL METAL FRAME AND GRATE TYPE 3 PER SPO. CO. STDS. SHEET B-14
- 17 INSTALL METAL FRAME AND SOLID "STORM" COVER PER SPO. CO. STDS. SHEET B-15
- 18 INSTALL STREET SIGN PER SPOKANE COUNTY STDS A-16, A-16A & A-16B
- 19 INSTALL TYPE III BARRICADE PER SPO. CO. STDS.
- 20 TRANSITION FROM 7' LANDSCAPING TO 10' LANDSCAPING PER SPO. CO. STDS.
- 21 INSTALL 12" CAP AND CONTRACTOR TO MARK END OF PIPE WITH VERTICAL 2X4

CATCH BASIN SCHEDULE

STRUCTURE	STATION	RIM	INVERT
OSWALD STREET			
CB1	17+96.48 (RT)	2294.71	2290.84
CB2	17+94.83 (LT)	2294.74	2291.15
CB3	16+80.84 (9.0' LT)	2295.83	2291.49
CB4	15+94.43 (LT)	2294.89	2291.74
CB5	15+94.43 (RT)	2294.89	2291.89
CB6	13+97.75 (LT)	2298.49	2292.71
CB7	13+97.75 (RT)	2298.49	2294.21
12TH AVENUE			
CB8	10+07.20 (LT)	2299.05	2294.36
CB9	10+07.20 (24.5 RT)	2298.39	2294.59

PIPE SCHEDULE

PIPE	DIA.	MATERIAL	LENGTH	SLOPE	I.E. (IN)	I.E. (OUT)
P1	18"	CPEP STORM PIPE	30.65'	1.00%	2291.15 (CB2)	2290.84 (CB1)
P2	18"	CPEP STORM PIPE	112.80'	0.30%	2291.49 (CB3)	2291.15 (CB2)
P3	18"	CPEP STORM PIPE	82.51'	0.30%	2291.74 (CB4)	2291.49 (CB3)
P4	12"	CPEP STORM PIPE	30.18'	0.50%	2291.89 (CB5)	2291.74 (CB4)
P5	12"	CPEP STORM PIPE	194.98'	0.50%	2292.71 (CB6)	2291.74 (CB4)
P6	12"	CPEP STORM PIPE	30.20'	4.97%	2294.21 (CB7)	2292.71 (CB6)
P7	12"	CPEP STORM PIPE	133.05'	0.50%	2295.03 (STUB)	2294.36 (CB8)
P8	12"	CPEP STORM PIPE	30.27'	0.50%	2294.36 (CB8)	2294.21 (CB7)
P9	12"	CPEP STORM PIPE	46.00'	0.50%	2294.59 (CB9)	2294.36 (CB8)

UTILITY LOCATE NOTE:
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• 811 OR 1-800-424-5555

NOTE:
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MJK	DATE	REVISIONS / AS BUILT
MJK	9-23-2015	ADDRESS COMMENTS - SECOND SUBMITTAL TO SPO. CO.
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BENCH MARK	SCALE	DATE
ELEVATION 2295.42 (NAVOD88 DATUM)	HORIZONTAL 1"=50'	1-11-2016
DESCRIPTION SEWER MANHOLE RIM LOCATED IN THE INTERSECTION OF CAMPUS DRIVE & OSWALD STREET	VERTICAL 1"=10'	1/11/16
	CHECKED ACS	
	APPROVED	



**SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS**

PROJECT #: **P-1959-05**
DATE ACCEPTED: **01-12-16**
ACCEPTANCE EXPIRES: **12-18**
PROJECT LANE MILES PUBLIC: **2.22**
PROJECT LANE MILES PRIVATE: **0.00**

CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3000
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION.

Simpson Engineers, Inc.
Founded 1946
CIVIL ENGINEERS & LAND SURVEYORS
N. 909 ARGONNE ROAD, SPOKANE VALLEY WA., 99212-2789
PHONE (509) 926-1322 FAX (509) 926-1323

TYPE OF IMPROVEMENT:	
STREET	
PROJECT NUMBER	SHEET NUMBER
16332	ST1.1

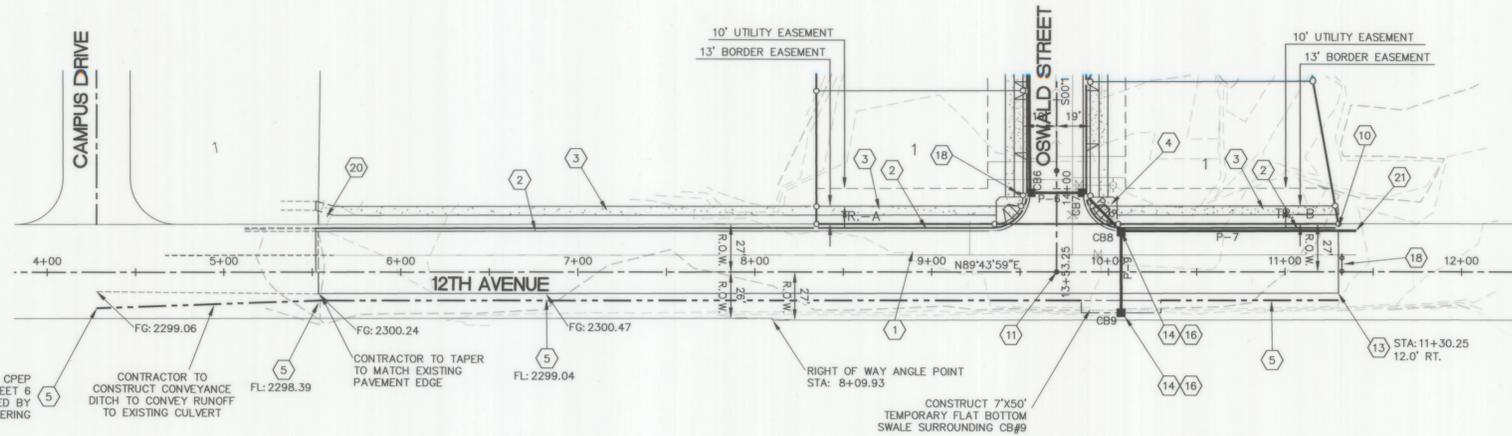
PILLAR ROCK ESTATES - 4TH ADDITION
OSWALD STREET
STATION 13+53.25 TO 17+96.32
THE SW1/4 OF SECTION 20, T.25 N, R.42 E.W.M.

P:\P\Projects\16001-16300\16332-Pillar Rock\dwg\16332.dwg 1/7/2016 7:57:45 AM PST

PILLAR ROCK ESTATES 4TH ADDITION

PW-1959-05

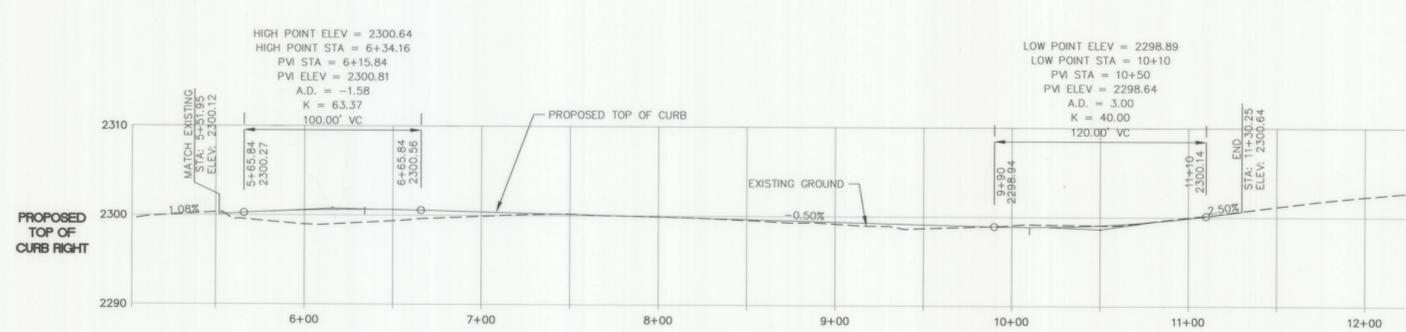
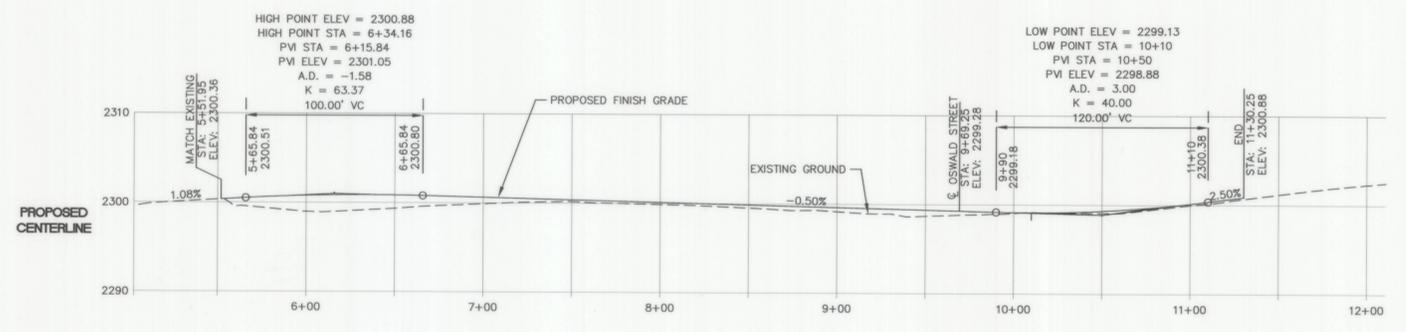
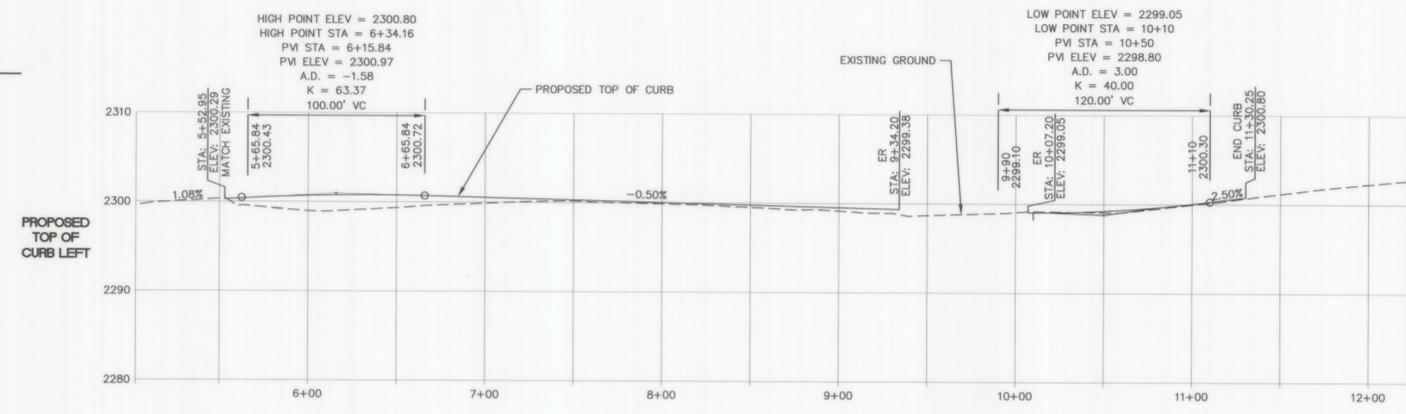
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SPOKANE COUNTY, WASHINGTON



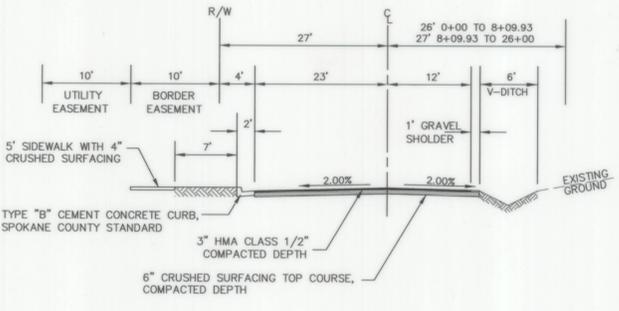
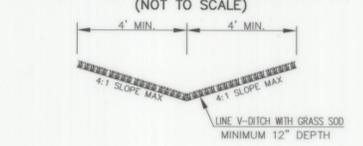
IE 2294.00 AT EXISTING 36" CPEP STORM DRAIN PIPE PER SHEET 6 OF ASBUILT PLANS PROVIDED BY STORHAUG ENGINEERING

CONSTRUCTION NOTES - STREET PLANS - SPOKANE COUNTY

1. INSTALL ASPHALT CONCRETE PAVEMENT PER SPO. CO. STDS.
2. INSTALL CONCRETE CURB AND GUTTER PER SPO. CO. STD. SHEET A-3
3. INSTALL 5' SIDEWALK PER SPO. CO. STD. SHEET A-1
4. INSTALL CURB RAMP PER SPO. CO. STD. SHEET A-5
5. CONSTRUCT ROAD SIDE V-DITCH PER STREET CROSS SECTION DETAIL
6. EXISTING ASPHALT PAVEMENT
7. EXISTING TYPE "B" CURB
8. EXISTING 5' WIDE CONCRETE SIDEWALK
9. INSTALL CURB INLET TYPE 1 PER SPO. CO. STD. SHEET B-8
10. END TYPE "B" CURB, CONSTRUCT 3' LONG NOSE DOWN
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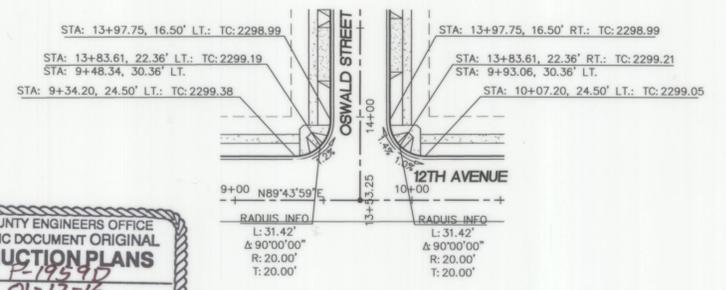


TYPICAL SECTION : V-DITCH



TYPICAL SECTION: 12TH AVENUE

NOT TO SCALE
REFERENCE GEOTECHNICAL EVALUATION PERFORMED BY INTERMOUNTAIN MATERIALS TESTING & GEOTECHNICAL, DATED NOVEMBER 13, 2015



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1959-05
DATE ACCEPTED: 01-12-16
ACCEPTANCE EXPIRES: 01-12-18
PROJECT LANE MILES PUBLIC: 1.7
PROJECT LANE MILES PRIVATE: 0
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.

INTERSECTION DETAIL
DIMENSIONS TO FACE OF TYPE "B" CURB
12TH AVENUE STA: 9+69.25
OSWALD STREET STA: 13+53.25

CATCH BASIN SCHEDULE

STRUCTURE	STATION	RIM	INVERT
CB1	17+96.48 (RT)	2294.71	2290.84
CB2	17+94.83 (LT)	2294.74	2291.15
CB3	16+80.84 (9.0' LT)	2295.83	2291.49
CB4	15+94.43 (LT)	2294.89	2291.74
CB5	15+94.43 (RT)	2294.89	2291.89
CB6	13+97.75 (LT)	2298.49	2292.71
CB7	13+97.75 (RT)	2298.49	2294.21
12TH AVENUE			
CB8	10+07.20 (LT)	2299.05	2294.36
CB9	10+07.20 (24.5' RT)	2298.39	2294.59

PIPE SCHEDULE

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P5	12" CPEP STORM PIPE	194.98'	0.50%	2292.71 (CB6)	2291.74 (CB4)
P6	12" CPEP STORM PIPE	30.20'	4.97%	2294.21 (CB7)	2292.71 (CB6)
P7	12" CPEP STORM PIPE	133.05'	0.50%	2295.03 (STUB)	2294.36 (CB8)
P8	12" CPEP STORM PIPE	30.27'	0.50%	2294.36 (CB8)	2294.21 (CB7)
P9	12" CPEP STORM PIPE	46.00'	0.50%	2294.59 (CB9)	2294.36 (CB8)

UTILITY LOCATE NOTE:
ALL UTILITIES SHALL BE LOCATED PRIOR TO CONSTRUCTION.
• CALL 2 BUSINESS DAYS BEFORE YOU DIG
• 811 OR 1-800-424-5555

NOTE:
EXACT LOCATIONS, SIZES AND DEPTHS OF UNDERGROUND UTILITIES ARE NOT KNOWN. UNDERGROUND UTILITIES SHOWN ARE TAKEN FROM EXISTING RECORDS AND ARE SHOWN FOR CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE TO UTILITIES LOCATED, AND SHALL CONTACT ALL UTILITY OWNERS AND CONFIRM LOCATIONS OF UTILITIES BEFORE DIGGING AND TO COORDINATE AND COOPERATE FULLY WITH EXISTING UTILITY DISTRICTS AND COMPANIES.

MJK	9-23-2015	ADDRESS COMMENTS - SECOND SUBMITTAL TO SPO. CO.	BENCH MARK	SCALE	DATE
MJK	12-15-2015	WIDEN 12TH AVENUE FOR IMPROVEMENTS TO THE SOUTH - THIRD SUBMITTAL TO SPO. CO.	ELEVATION 2295.42 (NAVDD8 DATUM)	HORIZONTAL 1"=50'	1-11-2016
MJK	12-23-2015	DITCH AND CB#9 LOCATION REVISIONS - FORTH SUBMITTAL TO SPO. CO.		VERTICAL 1"=10'	1/11/16
MJK	1-11-2016	APPROVED MYLAR PLANS TO SPO. CO.			



Founded 1946
Simpson Engineers, Inc.
CIVIL ENGINEERS & LAND SURVEYORS
N. 909 ARGONNE ROAD, SPOKANE VALLEY WA., 99212-2789
PHONE (509) 926-1322 FAX (509) 926-1323

TYPE OF IMPROVEMENT:	
STREET	
PROJECT NUMBER	SHEET NUMBER
16332	ST1.2

PILLAR ROCK ESTATES - 4TH ADDITION
12TH AVENUE
STATION 5+51.95 TO 11+30.25
THE SW1/4 OF SECTION 20, T.25 N., R.42 E.W.M.