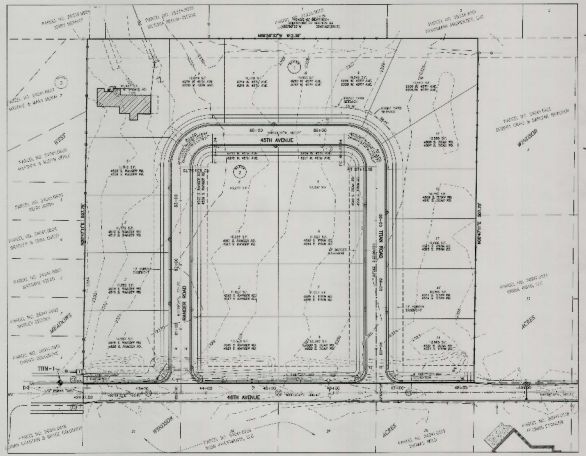
AS-BUILT CONSTRUCTION PLANS FOR

WEST MEADOWS - 1ST ADDITION

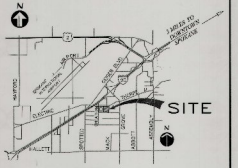
NE 1/4 OF SECTION 4, TOWNSHIP 24 NORTH RANGE 42 EAST W.M.,
SPOKANE COUNTY, WASHINGTON

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION" (GRAY AND BLUE BOOK) AS AMENDED.
2. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. CALL UTILITIES UNDERGROUND UTILITY LOCATION SERVICE AT 1-800-424-5555 BEFORE YOU DIG.
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 PARKING AREAS AND DRAINAGE FACILITIES.
4. ITS, OR CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE ACCEPTED CONSTRUCTION DRAWING PLANS ON SITE AT ALL TIMES FOR CONSTRUCTION OR INSPECTION.
5. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER.
6. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT THE INFILTRATION CAPACITY OF STORM WATER FACILITIES (E.G. LIMIT THE FACILITY WITH HEAVY EARTH-MOVING EQUIPMENT, SHOW COMPLETION OF THE INFRASTRUCTURE, ETC.)
7. DURING CONSTRUCTION, THE CONTRACTOR/DEVELOPER SHALL BE RESPONSIBLE FOR PROVIDING CONTINUOUS DUST CONTROL THROUGH THE USE OF WATER TRUCKS, SPRINKLING OR OTHER APPROVED METHODS.
8. UNDERGROUND STRUCTURES TO BE 30" ROUND PVC FLOW DRAIN BOX OR APPROVED EQUAL.
9. CONTRACTOR SHALL STRICTLY ADHERE ABOVE AND BELOW GROUNDWATER TECH MEMO AS NECESSARY TO ESTABLISH AND MAINTAIN VEGETATION.
10. CURB RAMPS SHALL BE CONSTRUCTED PER SPOKANE COUNTY PUBLIC WORKS STANDARD PLAN A-5.
11. REFLECTIVE RETAINER SHALL BE CONSTRUCTED PER SPOKANE COUNTY PUBLIC WORKS STANDARD PLAN A-7.
12. ALL TRIANGULAR APPROACH ISLES SHALL BE CONSTRUCTED PER SPOKANE COUNTY ENGINEERS STANDARD PLAN A-4 AT THE TIME OF RESIDENTIAL HOME CONSTRUCTION.
13. A CURB DROP PER SPOKANE COUNTY STANDARD PLAN #A-7 WITH AN 11" DEPRESSION OF 2' WILL BE CONSTRUCTED ON EACH SIDE OF ALL DRIVEWAY APPROACHES AT TIME OF CONSTRUCTION.
14. ROAD GRADES WILL ALLOW STORM FLOWS TO POND A CERTAIN DEPTH OF 1'-11" BELOW ADJACENT CURB FLOW LINE, SHOULD GRADE EXCEED THIS, POND A CERTAIN DEPTH OF 3' BELOW ADJACENT CURB FLOW LINE, UNLESS OTHERWISE NOTED.



SITE MAP
SCALE: 1"=200'



VICINITY MAP
NOT TO SCALE

LEGEND

- INT = INTERSECTION
- CR = CURB RETURN
- TC = TOP OF CURB
- FL = FLOW LINE
- TR = TOP OF ROAD
- BCC = BEGINNING OF CONSTRUCTION
- ECC = END OF CONSTRUCTION
- = UTILITY POLE
- = UTILITY BOX
- = HANDICAP STREET SIGN
- = GAS VENT
- = TRANSFORMER
- = NEW SEWER MANHOLE
- = EXISTING SEWER MANHOLE
- = STORM MANHOLE
- = POST-CON STORM BOX
- = SANITARY SEWER SERVICE
- = SANITARY SEWER
- = WATER SERVICE
- = WATER LINE
- = STORM DRAIN
- = BUTTERFLY FLEXTEE
- SP = SUMPTOP PUMP
- = TYPE I CURB INLET
- = TYPE II CURB INLET
- = ASPHALT
- = CONCRETE
- = TEMPORARY BENCHMARK

DRAWING INDEX

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45TH AVENUE PLAN & PROFILE	2
CRAWFORD LANE PLAN & PROFILE	3
ROAD INTERSECTION DETAILS	4
DETAILS	5
TESC PLAN, NOTES & DETAILS	6

TEMPORARY BENCH MARK (TBM)

TBM-1 NAVD 88
SET NAIL IN LEAD WITH 1-1/2" ALUMINUM WASHER "HLC INC CONTROL"
ELEV = 2224.67

RECORD DRAWING 09/12/19

This drawing represents the construction work as-built as can be determined. This as-built was created from observations and data collected by the following: Contractor, Surveyor, Engineer, Inspector, and others. The drawing is thought to be accurate based upon available information. It should be used only as a general representation of the constructed work. It has not been revised for correlation and by any knowledge the As-Built Drawings conform to the Contract Plans and the plans and Standard specifications except as noted.

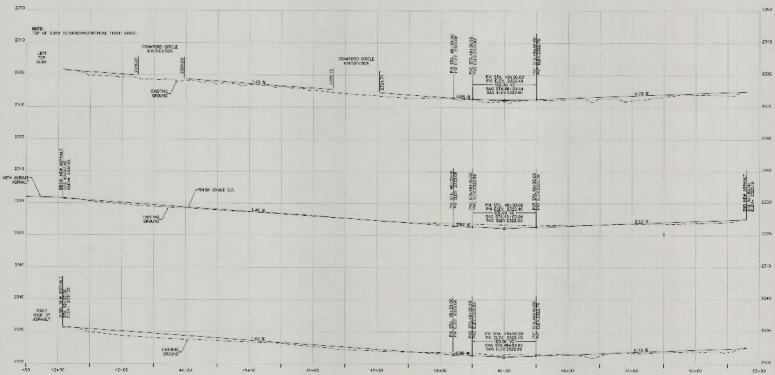
4/24/19

OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT # 2242
DATE ACCEPTED 5/1/19

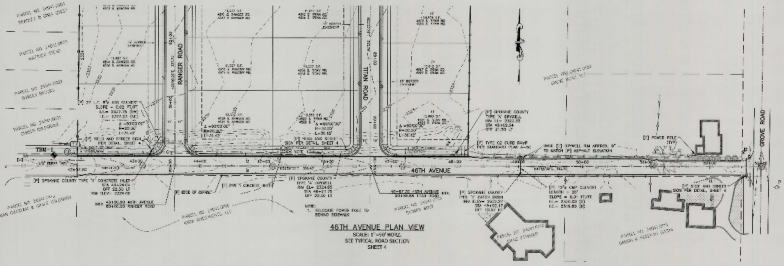
SHEET 1 OF 6

CALL BEFORE YOU DIG 811

Ackerlund & Clark, Inc.
Civil Engineering
Spokane, WA 99201-1262
(509) 467-4828 FAX 467-8151
www.ackerlund.com
Project No. 2017-042.000



46TH AVENUE PROFILE STA 42+07.50 TO 52+80.00
SCALE: 1"=50' HORIZ.
1"=20' VERT.



46TH AVENUE PLAN VIEW
SCALE: 1"=50' HORIZ.
SEE TYPICAL ROAD SECTION SHEET 4

NOTES:
1. SLOPE CURB INLET & LOW POINT EAST TO DISCONNECT TO CLEAR FIRE HYDRANT

CURB DROP LOCATIONS		
STA	SIDE	ROAD
42+27	LEFT	46TH AVENUE
43+21	LEFT	46TH AVENUE
44+27	LEFT	46TH AVENUE
45+27	LEFT	46TH AVENUE
46+27	LEFT	46TH AVENUE
47+07	LEFT	46TH AVENUE
47+97	LEFT	46TH AVENUE

LEGEND

(E)	= EXISTING
(P)	= PROPOSED
INTX	= INTERSECTION
GR	= CURB REVEAL
TC	= TOP OF CURB
FL	= FLOW LINE
BR	= BACK OF ROAD
BOC	= BEGINNING OF CONSTRUCTION
EOC	= END OF CONSTRUCTION
	= UTILITY POLE
	= UTILITY BOX
	= PROPOSED STREET SIGN
	= GUY WIRE
	= TRANSFORMER
	= NEW SEWER MANHOLE
	= EXISTING SEWER MANHOLE
	= CATCH BASIN
	= BROOMFIELD COUNTY IMPERIAL
	= SANITARY SEWER SERVICE
	= SANITARY SEWER
	= WATER SERVICE
	= WATER LINE
	= STORM DRAIN
	= DUMPSTER PLATFORM
DP	= DUMPSTER PAD
	= TYPE I CURB INLET
	= TYPE II CURB INLET
	= ASPHALT
	= GRAVEL

OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: P-####
DATE ACCEPTED: 9/12/19

RECORD DRAWING 09/12/19

This drawing represents the construction work as near as could be determined from the information and observations and was collected in the field during construction by the contractor, surveyor, inspector and others. This drawing is thought to be accurate based upon available information. Broomfield cannot verify the accuracy or completeness of this drawing. Use of this drawing is at the sole discretion and risk of the user. Broomfield disclaims any liability resulting from the use or misinterpretation of this drawing or its contents.

9/12/19

SHEET 3 OF 6

CALL BEFORE YOU DIG 811

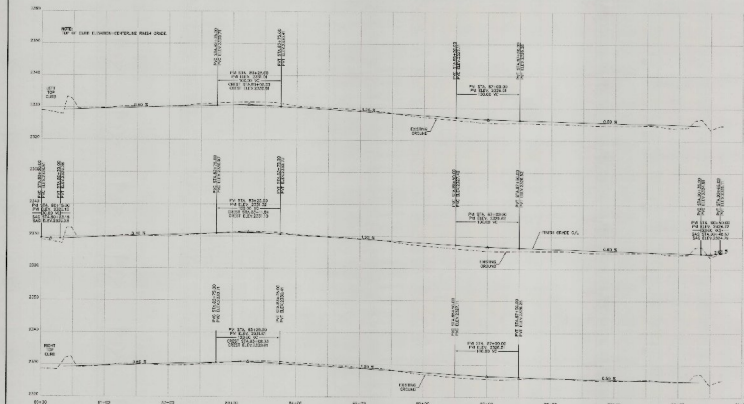
BENCH MARK DATUM	SCALE	DATE	STAFF
BM: ELEVATION	HORIZONTAL 50'	9/12/19 DRAWN	RWS
ELEVATION: 5,000.00'	VERTICAL 1/4"	9/12/19 CHECKED	DP
DATUM: NAVD 88		APPROVED	

ADAMS & CLARK, Inc.
www.AdamsAndClark.com
1100 W. Hampden Avenue
Englewood, CO 80110
(303) 747-1800 (FAX) 747-1803

46TH AVENUE
STA 42+07.50 TO 52+80.00
PLAN AND PROFILE
WEST MEADOWS - 1ST ADDITION

TYPE OF IMPROVEMENT: STREET
PUBLIC WORKS | PUBLIC LANDS
2017-01-006

No.	REVISIONS	DATE	INIT.	FROM: AS BUILT	TO: ASBUILT



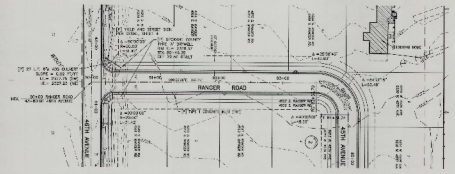
RANGER ROAD/46TH AVENUE/TITAN ROAD PROFILE STA 80+00 TO 90+68.88
SCALE: 1"=50' HORZ.
1"=10' VERT.

CURB DROP LOCATIONS		
STA	SIDE	ROAD
80+19	LEFT	CRAWFORD
80+19	RIGHT	CRAWFORD
81+40	LEFT	CRAWFORD
81+30	RIGHT	CRAWFORD
82+05	RIGHT	CRAWFORD
82+40	LEFT	CRAWFORD
82+05	RIGHT	CRAWFORD
83+26	RIGHT	CRAWFORD
84+10	LEFT	CRAWFORD
84+41	RIGHT	CRAWFORD
85+78	LEFT	CRAWFORD
85+30	RIGHT	CRAWFORD
85+98	LEFT	CRAWFORD
86+03	RIGHT	CRAWFORD
87+17	LEFT	CRAWFORD
87+78	RIGHT	CRAWFORD
87+87	LEFT	CRAWFORD
88+02	RIGHT	CRAWFORD
88+98	LEFT	CRAWFORD
89+36	RIGHT	CRAWFORD
89+43	LEFT	CRAWFORD
89+78	RIGHT	CRAWFORD
90+25	LEFT	CRAWFORD

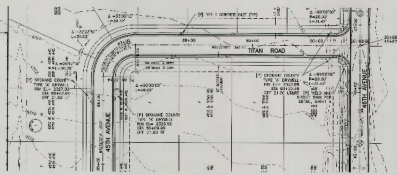
LEGEND

- BC = BEGIN C
- EC = END C
- PVI = PI
- CR = CURB RETURN
- TC = TOP OF CURB
- FL = FLOW LINE
- EP = EDGE OF ROAD
- BCC = BEGIN OF CONSTRUCTION
- ECC = END OF CONSTRUCTION
- = UTILITY POLE
- = UTILITY BOX
- = PROPOSED STREET SIGN
- = GUY WIRE
- = TRANSFORMER
- = NEW SEWER MANHOLE
- = EXISTING SEWER MANHOLE
- = STORM DRAIN
- = WYDOT/MP COUNTY TUNNEL
- = SANITARY SEWER SERVICE
- SS = SANITARY SEWER
- = WATER MAINS
- W = WATER LINE
- ST = STORM SEWER
- OH = OVERHEAD ELECTRIC
- OP = OVERFLOW PIPE
- = TYPE I CURB INLET
- = TYPE I CURB INLET
- = ASPHALT
- = GRAVEL

WELD COUNTY COLORADO DOCUMENT
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
SUBMITTED BY: J. SALES
DATE ACCEPTED: 09/12/19



RANGER ROAD/45TH AVENUE STA 80+00 TO 85+00
SCALE: 1"=50' HORZ.



45TH AVENUE/TITAN ROAD STA 85+00 TO 90+68.88
SCALE: 1"=50' HORZ.

RECORD DRAWING 09/12/19

This drawing represents the constructed work as best as can be determined. This set has been marked from information provided by the contractor and/or subcontractors or the contractors' surveyor, inspector or others. This drawing is thought to be accurate based upon available information. It should be used only as a general representation of the constructed work. There may be variations that do not affect the intent but it is not to be used with confidence with a ground survey and plans are standard specification's owner's option.

9/12/19

SHEET 3 OF 6

CALL BEFORE YOU DIG 811

NO.	REVISIONS	DATE	PROJ. ENGR.	AS BUILT	TO ACCEPT

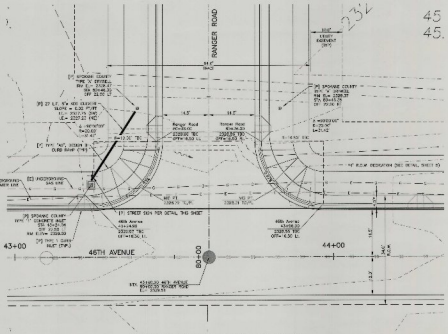
BENCH MARK DATUM	SCALE	DATE	STAFF
DESCRIPTION	HORIZONTAL 1"	R.W.P.	PMS
ELEVATION 2222.57	VERTICAL 10'	R.W.P.	DESIGN DH
LOCATION SEE #			APPROVED

ADAMS & CLARK, Inc.
www.adamsandclark.com
2120 W. Routt Ave.
Spokane, Wa 99201
(509) 747-4800 FAX(509) 747-0503

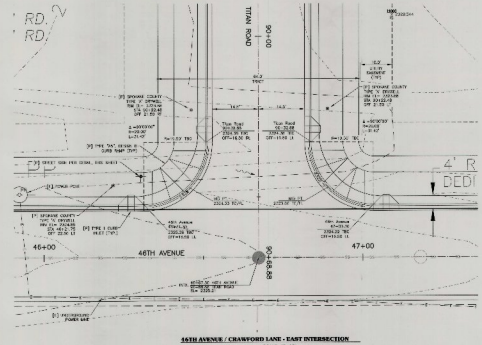
RANGER ROAD/TITAN ROAD
STA 80+00.00 TO 90+68.88
PLAN AND PROFILE
WEST MEADOWS 1ST ADDITION

TYPE OF IMPROVEMENT STREET

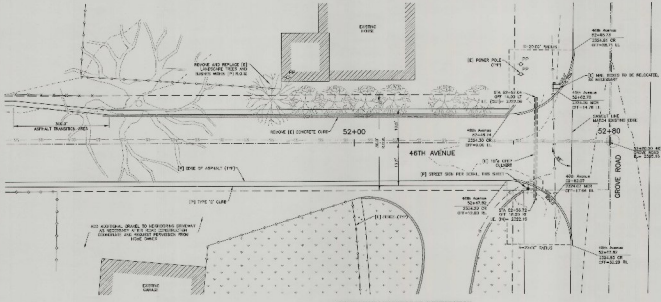
PROJECT NUMBER	PLAN NUMBER
2017-01-084	



46TH AVENUE / CRAWFORD LANE - WEST INTERSECTION
SCALE: 1"=10'



46TH AVENUE / CRAWFORD LANE - EAST INTERSECTION
SCALE: 1"=10'



46TH AVENUE / GROVE ROAD INTERSECTION
SCALE: 1"=10'

OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: 17-0xx
DATE ADOPTED: 9/12/19

RECORD DRAWING 09/12/19

This drawing represents the construction work as-built as can be determined. This as-built was prepared from observations and data collected in the field during construction by the contractor, engineer, surveyor and others. The contractor is responsible for the accuracy and completeness of this as-built record. Contractor signature is representative of the contractors work. I have reviewed the construction and to my knowledge that it is true & correct and represents with approved certified plans and Standard specifications except as noted.

4/8/19

LEGEND

[E]	= EXISTING
[P]	= PROPOSED
INT=	= INTERSECTION
TB	= TOP OF BANK
TC	= TOP OF CURB
FL	= FLOW LINE
FW	= FACE OF WALL
BOC	= BEGINNING OF CONSTRUCTION
EOC	= END OF CONSTRUCTION
-o-	= UTILITY POLE
-s-	= UTILITY SIGN
-s-	= PROPOSED STREET SIGN
-o-	= GUY WIRE
-t-	= TRANSFORMER
-s-	= SIGN SCROLL WAY-VALVE
-o-	= EXISTING SEWER MANHOLE
-o-	= CATCH BASIN
-o-	= PROPOSED DRAIN INLET
-s-	= SANITARY SEWER SERVICE
SS	= SANITARY SEWER
W	= WATER SERVICE
W	= WATER LINE
SD	= STORM DRAIN
OHP	= OVERHEAD ELECTRIC
GP	= GARBAGE PICKUP
TYP	= TYPE - CURB INLET
TYP	= TYPE - CURB INLET
	= STORM DRAIN SWALE
	= ASPHALT
	= GRAVEL

SHEET 4 OF 6

CALL BEFORE YOU DIG 811

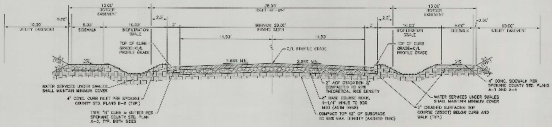
BY	REVISIONS	DATE	PROJ	TYPE	AS BUILT	"S" MONTH

BENCH MARK DATUM	SCALE	DATE	STAFF
DESIGNED SJC	HORIZONTAL 10'	6/18/19 DESIGN	RSS
DRAWN SMS SJC	VERTICAL NC	6/18/19 DRAWN	DV
LOCATION TABLE 81		APPROVED	

ADAMS & CLARK, Inc.
www.adamsclark.com
1120 N. Liberty Ave.
Spokane, WA 99201
(509) 747-4868 FAX 747-8913

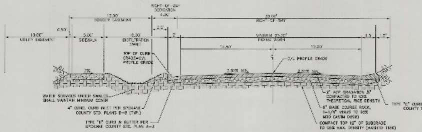
DETAILS
INTERSECTION DETAILS
WEST MEADOWS 1ST ADDITION

TYPE OF IMPROVEMENT	SUBDIV
PROJECT MANAGER	"S.M. NUMBER
2017-01-066	



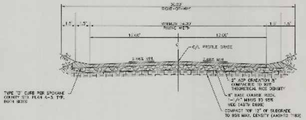
TYPICAL ROAD SECTION - RANGER ROAD/46TH AVENUE/TITAN ROAD

1"=10'



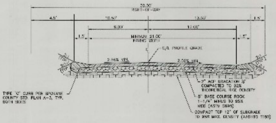
TYPICAL ROAD SECTION - 46TH AVENUE (STA 42+07.50 - STA 48+20.50)

1"=10'



TYPICAL ROAD SECTION - 46TH AVENUE (STA 48+50.50 - STA 50+93.00)

1"=10'



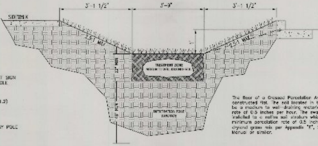
TYPICAL ROAD SECTION - 46TH AVENUE (STA 51+23.00 - GROVE ROAD)

1"=10'

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: P2060
DATE ACCEPTED: 9/18/19

GENERAL SWALE CONSTRUCTION NOTES

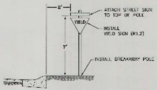
1. THE INFILTRATION BASINS (SWALES) INDICATED ON THESE PLANS ARE AN INTEGRAL PART OF THE STORMWATER DRAINAGE ANALYSIS AND REPORT PREPARED FOR THIS SITE. THE CONTRACTOR SHALL TAKE GREAT CARE IN ACCURATELY ESTABLISHING THE SWALE BOTTOM AREAS AND ELEVATIONS AS INDICATED.
2. IT IS IMPERATIVE FOR THE PROPER FUNCTION OF THE INFILTRATION BASINS THAT THE TOPSOILS AND SUBGRADE BELOW THE SWALES BE AS UNCOMPACTED AS POSSIBLE (TO A MINIMUM DEPTH OF 60 INCHES). THE TOPSOILS SHOULD BE LOOSE AND FRIABLE.
3. THE INDICATED SWALE AREAS ARE TO BE STAKED AS EARLY AS POSSIBLE AND PROTECTED DURING CONSTRUCTION.
4. THE SWALE AREAS SHALL NOT BE USED AS CONSTRUCTION STAGING AREAS, I.E., PARKING OF EQUIPMENT, STORAGE AREA FOR MATERIALS, OR WASHOUT AREA FOR PAINTERS, SHEET ROCKERS, CONCRETE TRUCK WASHOUT, ETC.
5. IF SOD IS SELECTED AS BID ALTERNATE FOR THE SWALE BOTTOMS, THE SOD SELECTION IS TO BE OF A SIMILAR VARIETY TO THE SEED SPECIFICATION, AND SHALL BE KNOWN TO HAVE A LOW FRACTION OF FINE SILTS AND CLAYS AT ITS FIELD OF ORIGIN.
6. SIDE SLOPES ON INFILTRATION BASINS ARE TO BE 2:1 MAXIMUM UNLESS OTHERWISE INDICATED ON PLAN.
7. WATER DIRECTED TO THE INFILTRATION BASINS SHOULD INFILTRATE WITHIN 72 HOURS FOR PROPERLY PROTECTED AND INSTALLED GRASSY SWALES. IF STANDING WATER IS OBSERVED IN THE SWALES BEYOND THIS TIME PERIOD DURING CONSTRUCTION, THE CONTRACTOR WILL BE REQUIRED TO DETERMINE THE PROBLEM AND REMEDY TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
8. SEDIMENT SHALL BE CONTROLLED AND PREVENTED FROM ENTERING AREAS DESIGNATED AS INFILTRATION BASINS DURING CONSTRUCTION.
9. DURING CONSTRUCTION OF THE INFILTRATION BASIN, USE THE SMALLEST/LIGHTEST EQUIPMENT PRACTICAL TO MINIMIZE COMPACTION.
10. IF TOPSOIL IS IMPORTED IN THE CONSTRUCTION OF THE SWALE, SELECT A SOIL WHICH IS OF SIMILAR TEXTURE AND POROSITY TO THE EXISTING SOIL (USE STOCKPILED TOPSOIL WHENEVER POSSIBLE) TO REDUCE THE EFFECTS OF SOIL LAYERING.
11. EVENLY ROTOTILL IMPORTED TOPSOIL (OR AMENDED TOPSOIL PER THE PROJECT SPECIFICATIONS) INTO THE EXISTING SOILS TO A DEPTH OF 4 TO 6 INCHES.
12. PLANT AND IRRIGATE INFILTRATION BASIN AS SOON AFTER EXCAVATION AS POSSIBLE TO STABILIZE AND REDUCE EROSION.



The floor of a Grassed Percolation Area (GPA) swale shall be constructed flat. 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 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. Seed swale with dryland grass mix per Appendix "E", Spokane Regional Stormwater Manual or similar.

TYPICAL BIOFILTRATION SWALE SECTION

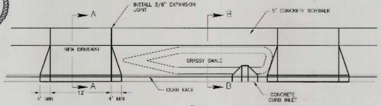
N.T.S.



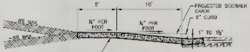
TYPICAL STREET SIGN DETAIL

(SEE SPOKANE COUNTY STANDARD PLAN A-15)

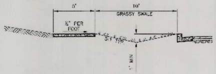
N.T.S.



PLAN



SECTION A–A



SECTION B–B

CONCRETE DRIVEWAY DETAIL

N.T.S.

RECORD DRAWING 09/12/19

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GREGORY S. MILLER, STATE OF WASHINGTON, 37480, PROFESSIONAL ENGINEER
9/12/19

SHEET 5 OF 6

CALL BEFORE YOU DIG: 811

BY	REVISIONS	DATE	PROJ.	FROM	AS BUILT	TO	ACCEPT

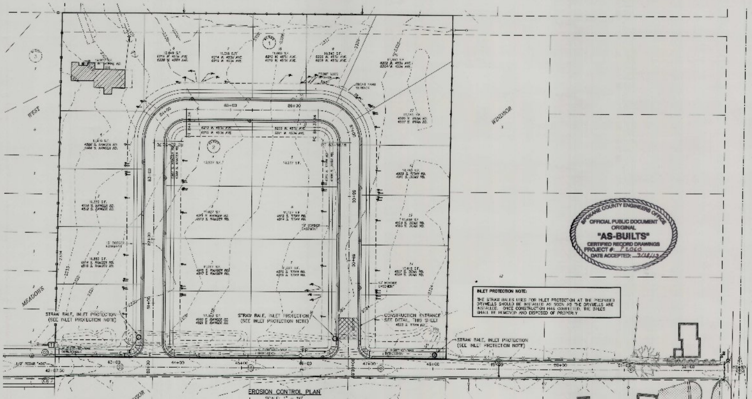
BENCH MARK DATUM	SCALE	DATE	STAFF
DW: NAVD88	HORIZONTAL 10'	6/18	DRAWN RMS
ELEVATION: 2412.13'	VERTICAL	6/18	CHECKED CM
LOCATION: T.B.M. #1			APPROVED

ADAMS & CLARK, Inc.
www.adamsandclark.com
1720 N. Fourth Ave.
Spokane, WA 99201
(509) 747-4600 F(509) 747-8813

DETAILS

ROAD AND DRAINAGE
WEST MEADOWS – 1ST ADDITION

TYPE OF IMPROVEMENT: STREET	
PROJECT NUMBER	PLAN NUMBER
2017-01-066	

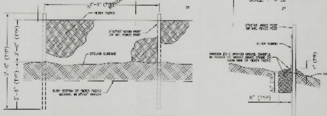


SPOKANE COUNTY ENGINEER'S OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: PLOCO
DATE ACCEPTED: 9/18/19

INLET PROTECTION NOTE:

THE STRAW BALES USED FOR INLET PROTECTION AT THE PROPOSED DRYWELLS SHOULD BE INSTALLED AS SOON AS THE DRYWELLS ARE INSTALLED. ONCE CONSTRUCTION HAS COMPLETED, THE BALES SHALL BE REMOVED AND DISPOSED OF PROPERLY.

EROSION CONTROL PLAN
SCALE: 1" = 50'



SILT FENCE
SCALE: 1" = 50'

DEFINITION:
A TEMPORARY SEDIMENT BARRIER CONSISTING OF A FILTER FABRIC STRETCHED ACROSS AND ATTACHED TO SUPPORTING POSTS AND ENTRENCHED. THE FILTER FENCE IS CONSTRUCTED OF STAKES AND SYNTHETIC FILTER FABRIC WITH A RIGID WIRE FENCE BACKING WHERE NECESSARY FOR SUPPORT.

PURPOSE:
1. TO INTERCEPT AND DETAIN SMALL AMOUNTS OF SEDIMENT UNDER SHEET FLOW CONDITIONS FROM DISTURBED AREAS DURING CONSTRUCTION OPERATIONS IN ORDER TO PREVENT SEDIMENT FROM LEAVING THE SITE.
2. TO DECREASE THE VELOCITY OF SHEET FLOWS.

THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS AR NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6 INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST.

POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 30 INCHES (WHERE PHYSICALLY POSSIBLE).

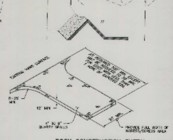
A TRENCH SHALL BE EXCAVATED APPROXIMATELY 8 INCHES WIDE AND 12 INCHES DEEP ALONG THE LINE OF POST AND UP SLOPE FROM THE BARRIER. THE TRENCH SHALL BE CONSTRUCTED TO FOLLOW THE CONTOUR.

WHEN SLIT FILM FILTER FABRIC IS USED, WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UP SLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RIGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

SLIT FILM FILTER FABRIC SHALL BE WIRED TO THE FENCE, AND 20 INCHES OF THE FABRIC SHALL EXTEND INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES. OTHER TYPES OF FABRIC MAY BE STAPLED TO THE FENCE.

WHEN EXTRA-STRENGTH OR MONOFILAMENT FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POST. EXTRA CARE SHOULD BE USED WHEN JOINING OR OVERLAPPING THESE STIFFER FABRICS. APPARENT OPENING SIZE OF FILTER FABRIC SHALL BE 70.

MAINTENANCE:
- INSPECT IMMEDIATELY AFTER EACH RAINFALL, AND AT LEAST DAILY DURING PROLONGED RAINFALL. REPAIR AS NECESSARY.
- SEDIMENT MUST BE REMOVED WHEN IT REACHES APPROXIMATELY ONE THIRD THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE EXPECTED.



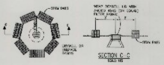
ROCK CONSTRUCTION ENTRY
SCALE: N.T.S.

DEFINITION: A TEMPORARY STONE-STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE.

PURPOSE: TO REDUCE THE AMOUNT OF MUD, DIRT, ROCKS, ETC. TRANSPORTED ONTO PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF BY CONSTRUCTING A STABILIZED PAD OF ROCK SPALLS AT ENTRANCES TO CONSTRUCTION SITES AND WASHING OF TIRES DURING EGRESS.

CONDITIONS WHERE PRACTICE APPLIES: WHENEVER TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVING DIRECTLY ONTO A PUBLIC ROAD OR OTHER PAVED AREAS.

MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.



SECTION C-C

EROSION CONTROL NOTES
1. WRAP ALL STRUCTURE LIDS PER SECTION C-C (THIS SHEET)
2. WRAP DRYWELLS WITH STRAW BALES PER DETAIL (THIS SHEET) THIS SHOULD BE IN PLACE IMMEDIATELY AFTER CONSTRUCTION OF DRYWELL SWALES
3. CONSTRUCTION TRAFFIC SHALL BE RESPONSIBLE FOR THE REMOVAL OF MUD AND DEBRIS PRIOR TO ACCESSING PUBLIC STREETS.

DRYWELL & INLET PROTECTION DETAIL
SCALE: N.T.S.

EROSION AND SEDIMENTATION CONTROL NOTES

1. THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL PROBLEMS:
   a. CLEAR AND GRUB SUFFICIENTLY FOR INSTALLATION OF TEMPORARY ESC BMP'S;
   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 POINTS 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 ESTABLISHED 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 OR 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 QUALITY CONTROL AUTHORITIES 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 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 CONTROL 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 ALL 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 ON 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 DURING/AFTER 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 REMOVED 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.

RECORD DRAWING 09/12/19

This drawing represents the construction work as near as can be determined. This as-built was created from observations and data collected in the field during construction by the contractor, surveyor, inspector and others. This drawing is thought to be accurate based upon available information. It should be used only as a general representation of the constructed work. I have reviewed the construction and to my knowledge find it to be in substantial conformance with approved certified plans and Standard specifications except as noted.

GREGORY S. MILLER, STATE OF WASHINGTON, 37480, PROFESSIONAL ENGINEER
9/12/19

SHEET 6 OF 6
CALL BEFORE YOU DIG: 811

BENCH MARK DATUM	SCALE	DATE	STAFF
EM: NAVD88	HORIZONTAL 50'	6/8/18	DRAWN
ELEVATION: 2412.13'	VERTICAL 5'	6/8/18	CHECKED GM
LOCATION: T.B.M. #1			APPROVED

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TESC PLAN & DETAILS
TEMPORARY EROSION AND SEDIMENT CONTROL PLAN AND DETAILS
WEST MEADOWS – 1ST ADDITION

TYPE OF IMPROVEMENT: TESC	
PROJECT NUMBER	PLAN NUMBER
2017-01-056	

BY	REVISIONS	DATE	PROJ.	FROM	AS BUILT	TO	ACCEPT