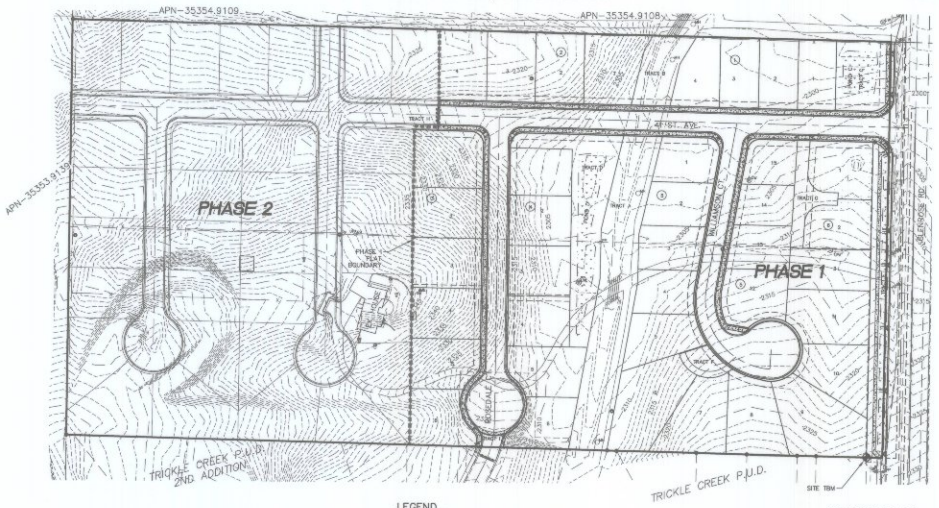
STREET AND DRAINAGE PLANS

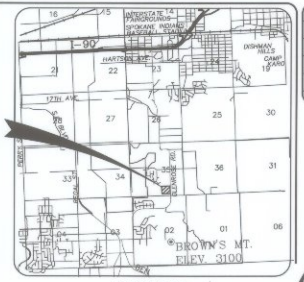
TRICKLE CREEK 3rd AND 4th ADDITION

PHASE 1

A PORTION OF THE SOUTHEAST 1/4 OF SECTION 35,
TOWNSHIP 25 NORTH, RANGE 43 EAST, W.M.
SPOKANE COUNTY, WASHINGTON



PROJECT AREA



VICINITY MAP
NOT TO SCALE

ABBREVIATIONS

ACT. L.	ACTUAL LENGTH
BDRY	BOUNDARY
CO	SEWER CLEANOUT
CT	COURT
DIA	DIAMETER
EL	ELEVATION
EOA	EDGE OF ASPHALT
EXIST	EXISTING
G	GRADE
HYD	HYDRANT
I.E.	INVERT ELEVATION
LN	LANE
LT	LEFT
MH	MANHOLE
PC	POINT OF CURVE
PT	POINT OF TANGENCY
PRC	POINT OF REV. CURVE
RD	ROAD
RIM EL.	RIM ELEVATION
RT	RIGHT
SAN	SANITARY SEWER
St	STREET INTRSCTN
STA	STATION
STA L.	STATION LENGTH
WM	WATER MAIN
W/	WITH

LEGEND

EXISTING FEATURES	PROPOSED IMPROVEMENTS
ASPHALT SURFACING	ASPHALT SURFACING
CURB	CURB
GRAVEL	CONCRETE OR SIDEWALK
SIDEWALK OR CONCRETE	DRYWELL
FOUND POINT AS NOTED	STORM MANHOLE
DRYWELL	CONCRETE INLET
STORM MANHOLE	CURB INLET
CATCH BASIN	POWER POLE
GUY WIRE POLE	SIGN
POWER POLE/TELEPHONE POLE	WATER VALVE
LIGHT POLE	WATER METER
TELEPHONE ENCLOSURE	FIRE HYDRANT
WATER VALVE	WATER SHUTOFF / WATER VAULT
FIRE HYDRANT	SANITARY SEWER MANHOLE
SANITARY SEWER MANHOLE	CLEANOUT (CO)
TREE (DECIDUOUS OR CONIFEROUS)	GAS METER
W — WATER LINE	8"WA — WATER LINE (AS SIZED)
SS — SANITARY SEWER LINE	SLEEVE FOR WATER / SEWER CROSSING
SD — STORM DRAIN LINE / CULVERT	SS — SANITARY SEWER LINE
OHP — POWER LINE (OHP OR BP)	SD — STORM DRAIN LINE / CULVERT
BT — TELEPHONE LINE (OHT OR BT)	1924 — CONTOURS
G — GAS LINE	STORM WATER SWALE / POND / WETLAND
2434 — CONTOURS	DIRECTION OF SURFACE STORM WATER DRAINAGE
X — X — FENCE	1924.50 / 1924.00 — TOP OF CURB ELEVATION / FLOWLINE ELEVATION
EFO — FIBER OPTIC LINE	CURB INLET / 1924.00 — CURB INLET / INLET ELEVATION AT FLOWLINE
	1924.00 — FINISHED GRADE ELEVATION

GRAPHIC SCALE

(IN FEET)
1 inch = 60 ft.

SHEET INDEX

1 – COVER SHEET
2 – ESC NOTES
3 – ESC PLAN
4 – GLENROSE RD. PLAN & PROFILE
5 – WILLIAMSON CT. PLAN & PROFILE
6 – ROSEDALE CT. PLAN & PROFILE
7 – 41ST AVE. PLAN & PROFILE
8 – POND DETAILS
9 – ROAD SECTIONS
10 – INTERSECTION DETAILS
11 – DETAILS AND NOTES

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.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: E-2036
DATE ACCEPTED: 06-28-17
ACCEPTANCE EXPIRES: 06-28-19
PROJECT LANE MILES PUBLIC: .28
PROJECT LANE MILES PRIVATE: 0
RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND DEPICT OWNERSHIP OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED (509) 477-3600
NOTIFY PERMIT ENGINEER 5 BUSINESS DAYS PRIOR TO CONSTRUCTION

LOCATES (2 WORKING DAYS NOTICE REQUIRED PRIOR TO EXCAVATION)
LOCAL CALLING NUMBERS
SPOKANE COUNTY 8-1-1

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.

ELEVATION DATUM
BASED ON 57TH. & GLENROSE COUNTY ROAD PROJECT (ORP 2879) NOTES FROM COUNTY SURVEYOR DATED 12/12/00. COUNTY TBM'S 11-15 ARE THE BASIS FOR VERTICAL DATUM

DEVELOPER'S APPROVAL — DATE 6/26/17

No.	DESC. / DATE	BY
1		
2		
3		
4		
5		

storhaug
civil engineering | planning
landscape architecture | surveying
330 east third avenue | spokane, wa | 99202
p 509.242.1000 | f 509.242.1005

SHEET TITLE: COVER SHEET
STREET AND DRAINAGE PLANS
PROJECT TITLE: TRICKLE CREEK 3rd AND 4th ADDITION
SPOKANE COUNTY, WASHINGTON

SEAL

DATE	06/19/2017
DRAWN	LMC
CHECKED	MEJ
PROJECT NUMBER	14-234
DRAWING NO.	1 OF 11
	COVER

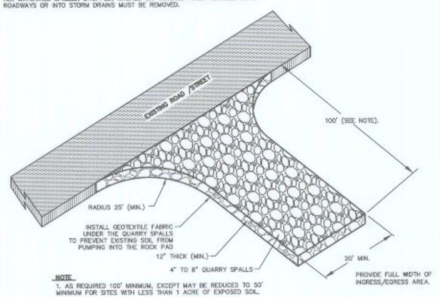
14-234 – ST 1-3 COVER ESC NOTES.dwg SH 1 COVER

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, ROCK, 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: WHEREVER 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 OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONES, 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.



NOTE

1. AS REQUIRED 100' MINIMUM, EXCEPT MAY BE REDUCED TO 50' MINIMUM FOR SITES WITH LESS THAN 1 ACRE OF EXPOSED SOIL.

STABILIZED CONSTRUCTION EXIT/ TIRE WASH (CE)

NTS

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.

STANDARD NOTES:

A. THE FILTER FABRIC FENCE SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, OVERLAP FILTER CLOTH AND SECURELY FASTEN BOTH ENDS TO THE POST.

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

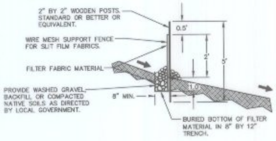
C. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 8 INCHES WIDE AND 12 INCHES DEEP ALONG THE LINE OF POSTS AND UP-SLOPE FROM THE BARRIER. THE TRENCH SHALL BE CONSTRUCTED TO FOLLOW THE CONTOURS.

D. WHEN SLIT FILM FILTER FABRIC IS USED, A 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 RINGS. 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.

E. 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.

F. 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 POSTS WITH ALL OTHER PROVISIONS OF STANDARD NOTE "E" APPLYING. EXTRA CARE SHOULD BE USED WHEN JOINING OR OVERLAPPING THESE STIFFER FABRICS.

G. LOCAL GOVERNMENTS MAY SPECIFY THE USE OF PROPERLY COMPACTED NATIVE MATERIALS. IN MANY INSTANCES, THIS MAY BE THE PREFERRED ALTERNATIVE BECAUSE THE SOIL FORMS A MORE CONTINUOUS CONTACT WITH THE TRENCH BELOW.



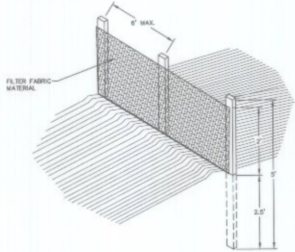
CONDITIONS WHERE PRACTICE APPLIES: FILTER FENCES MUST BE PROVIDED JUST UPSTREAM OF THE POINT(S) OF DISCHARGE OF RUNOFF FROM A SITE, BEFORE THE FLOW BECOMES CONCENTRATED. THEY MAY ALSO BE REQUIRED:

1. BELOW DISTURBED AREAS WHERE RUNOFF MAY OCCUR IN THE FORM OF SHEET AND RILL EROSION; WHEREVER RUNOFF HAS THE POTENTIAL TO IMPACT DOWNSTREAM RESOURCES.

2. PERPENDICULAR TO MINOR SWALES OR DITCH LINES FROM CONTRIBUTING DRAINAGE AREAS UP TO ONE ACRE IN SIZE.

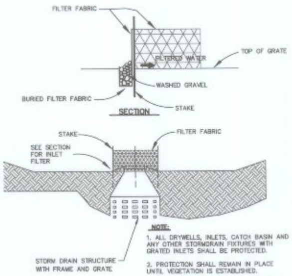
3. CONTRACTOR SHALL COORDINATE WITH DESIGN ENGINEER FOR ACTUAL PLACEMENT LOCATIONS.

MAINTENANCE: THE FILTER FENCE AND INLET PROTECTIONS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD AND SEDIMENT OFF OF THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC CLEANING WHEN SEDIMENT BUILD UP IS SIX INCHES OR ONE-THIRD OF THE FENCE OR INLET PROTECTION'S ORIGINAL HEIGHT.



FILTER FENCE (FF)

NTS



NOTE:

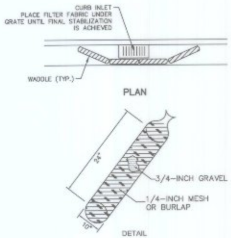
1. ALL DRYWELLS, INLETS, CATCH BASIN AND ANY OTHER STORMDRAIN FIXTURES WITH GRATED INLETS SHALL BE PROTECTED.

2. PROTECTION SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED.

3. SEDIMENT MUST BE REMOVED WHEN IT REACHES 6" OR $\frac{1}{3}$ OF THE HEIGHT OF THE FENCE.

TEMPORARY INLET PROTECTION OUT SIDE OF ROADWAY (IP)

NTS



WADDLE (W)

NTS

TEMPORARY INLET PROTECTION (IP)

NTS

DEFINITION: A TEMPORARY PREFABRICATED CONCRETE WASHOUT CONTAINER OR SELF-INSTALLED STRUCTURE (ABOVE OR BELOW GRADE), APPROVED BY THE ENGINEER, USED TO DETAIN CONCRETE WASTE.

PURPOSE: TO PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORMWATER FROM CONCRETE WASTE BY CONDUCTING WASHOUT OFFSITE OR PERFORMING ONSITE WASHOUT IN A DESIGNATED AREA TO PREVENT POLLUTANTS FROM ENTERING SURFACE WATERS OR GROUNDWATER.

CONDITIONS WHERE PRACTICE APPLIES: WHENEVER CONCRETE IS USED AS A CONSTRUCTION MATERIAL AND IT IS NOT POSSIBLE TO DISPOSE OF ALL CONCRETE WASTEWATER AND WASHOUT OFFSITE.

MAINTENANCE: THE CONCRETE WASHOUT FACILITY SHALL BE INSPECTED FOR CAPACITY AND LEAKAGE PRIOR TO THE COMMENCEMENT OF CONCRETE WORK AND DAILY THEREAFTER. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES PROVIDED AND READY FOR USE ONCE THE WASHOUT BECOMES 75% FULL.

NOTES:

1. CONCRETE TRUCK CHUTES, PUMPS, AND INTERNALS SHALL BE WASHED OUT ONLY INTO FORMED AREAS AWAITING INSTALLATION OF CONCRETE OR ASPHALT.
2. UN-USED CONCRETE REMAINING IN THE TRUCK AND PUMP SHALL BE RETURNED TO THE ORIGINATING BATCH PLANT FOR RECYCLING.
3. HAND TOOLS INCLUDING, BUT NOT LIMITED TO, SCREEDS, SHOVELS, RAKES, FLOATS, AND TROWELS SHALL BE WASHED OFF ONLY INTO FORMED AREAS AWAITING INSTALLATION OF CONCRETE OR ASPHALT.
4. EQUIPMENT THAT CANNOT BE EASILY MOVED, SUCH AS CONCRETE PAVERS, SHALL ONLY BE WASHED IN AREAS THAT NO NOT DIRECTLY DRAIN TO NATURAL OR CONSTRUCTED STORMWATER CONVEYANCES.
5. WHEN NO FORMED AREAS ARE AVAILABLE, WASHWATER AND LEFTOVER PRODUCT SHALL BE CONTAINED IN A LINED CONTAINER. CONTAINED CONCRETE SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY STANDARDS.

CONCRETE WASHOUT NOTES

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-2036
DATE ACCEPTED: 06-28-17
ACCEPTANCE EXPIRES: 06-28-19
PROJECT LANE MILES PUBLIC: .78
PROJECT LANE MILES PRIVATE: Ø
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

CONTACT PERSON/PERMIT APPLICANT

GEORGE PARAS
TZL INVESTMENTS, LLC
(509) 535-8377

PROJECT ADDRESS

SPOKANE COUNTY PARCELS 35354.9048 AND 35354.9049
LOCATED AT
4214 SOUTH GLENROSE ROAD
SPOKANE, WASHINGTON 99223

PROJECT / SITE DESCRIPTION

THE PROPOSED PROJECT INCLUDES ROAD AND UTILITY CONSTRUCTION WITH ASSOCIATED STORM DRAINAGE FACILITIES FOR A PROPOSED RESIDENTIAL SUBDIVISION.

SOIL TYPE

THE SOILS OF THE SUBJECT PROPERTY ARE IDENTIFIED BY THE USDA NATURAL RESOURCES CONSERVATION SERVICE (NRCS) AS BELONGING TO THE FOLLOWING SOILS GROUPS:

3501 – BRINCKEN, MOIST UHLIG COMPLEX, 0 TO 8 PERCENT SLOPES
3132 – BONG, MOIST-PHOEBE COMPLEX, 8 TO 15 PERCENT SLOPES
3131 – PHOEBE ASHY SANDY LOAM, 3 TO 8 PERCENT SLOPES

EXISTING CONDITIONS

THE PROJECT SITE IS FORMERLY CULTIVATED OR PASTURE LAND COVERED BY WEEDS, GRASS AND SOME PINE TREES ON ROLLING TOPOGRAPHY.

1. THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL PROBLEMS:
   - 1.a. CLEAR AND GRUB SUFFICIENTLY FOR INSTALLATION OF TEMPORARY ESC BMPS;
   - 1.b. INSTALL TEMPORARY ESC BMPS, CONSTRUCTING SEDIMENT TRAPPING BMPS AS ONE OF THE FIRST STEPS PRIOR TO GRADING;
   - 1.c. CLEAR, GRUB AND ROUGH GRADE FOR ROADS, TEMPORARY ACCESS POINTS AND UTILITY LOCATIONS;
   - 1.d. STABILIZE ROADWAY APPROACHES AND TEMPORARY ACCESS POINTS WITH THE APPROPRIATE CONSTRUCTION ENTRY BMP;
   - 1.e. CLEAR, GRUB AND GRADE INDIVIDUAL LOTS OR GROUPS OF LOTS;
   - 1.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;
   - 1.g. CONSTRUCT ROADS, BUILDINGS, PERMANENT STORMWATER FACILITIES (I.E. INLETS, PONDS, UIC FACILITIES, ETC.);
   - 1.h. PROTECT ALL PERMANENT STORMWATER FACILITIES UTILIZING THE APPROPRIATE BMPS;
   - 1.i. INSTALL PERMANENT ESC CONTROLS, WHEN APPLICABLE; AND,
   - 1.j. REMOVE TEMPORARY ESC CONTROLS WHEN:
     - 1.j.a. PERMANENT ESC CONTROLS, WHEN APPLICABLE, HAVE BEEN COMPLETELY INSTALLED;
     - 1.j.b. ALL LAND-DISTURBING ACTIVITIES THAT HAVE THE POTENTIAL TO CAUSE EROSION OR SEDIMENTATION PROBLEMS HAVE CEASED; AND,
     - 1.j.c. VEGETATION HAD BEEN ESTABLISHED IN THE AREAS NOTED AS REQUIRING VEGETATION ON THE ACCEPTED ESC PLAN ON FILE WITH THE LOCAL JURISDICTION.
2. 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.
3. 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.
4. 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.
5. RESTORE CONSTRUCTION ACCESS ROUTE EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITION.
6. RETAIN THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICAL.
7. 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.
8. CONTROL FUGITIVE DUST FROM CONSTRUCTION ACTIVITY IN ACCORDANCE WITH THE STATE AND/OR LOCAL AIR QUALITY CONTROL AUTHORITIES WITH JURISDICTION OVER THE PROJECT AREA.
9. 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 FOURTH IN THE CONSTRUCTION STORMWATER GENERAL PERMIT.
10. PROTECT INLETS, DRYWELLS, CATCH BASINS AND OTHER STORMWATER MANAGEMENT FACILITIES FROM SEDIMENT, WHETHER OR NOT FACILITIES ARE OPERABLE.
11. KEEP ROADS ADJACENT TO INLETS CLEAN.
12. INSPECT INLETS WEEKLY AT A MINIMUM AND DAILY DURING STORM EVENTS.
13. 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.
14. STOCKPILE MATERIALS (SUCH AS TOPSOIL) ON SITE, KEEPING OFF OF ROADWAY AND SIDEWALKS.
15. COVER, CONTAIN AND PROTECT ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCT, AND NONINERT 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.
16. CONDUCT MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM REPAIRS, SOLVENT AND DEGREASING 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.
17. 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.
18. 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.
19. 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.
20. BMP'S SHALL BE IN ACCORDANCE WITH CHAPTER 7 OF THE STORMWATER MANAGEMENT MANUAL FOR EASTERN WASHINGTON.

ESC STANDARD NOTES

NOTE: REFER TO COVER AND INDEX SHEET FOR VICINITY MAP.

LOCATES (2 WORKING DAYS NOTICE REQUIRED PRIOR TO EXCAVATION)
LOCAL CALLING NUMBERS
SPOKANE COUNTY 8-1-1

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.

14-234 – ST 1-3 COVER EROS NOTES.dwg SH 2 EROS NOTE

No.	DESC. / DATE	BY
5		
4		
3		
2		
1		

storhäug
civil engineering | planning
landscape architecture | surveying
510 east third avenue | spokane, wa | 99202
p 509.242.1000 | f 509.242.1001

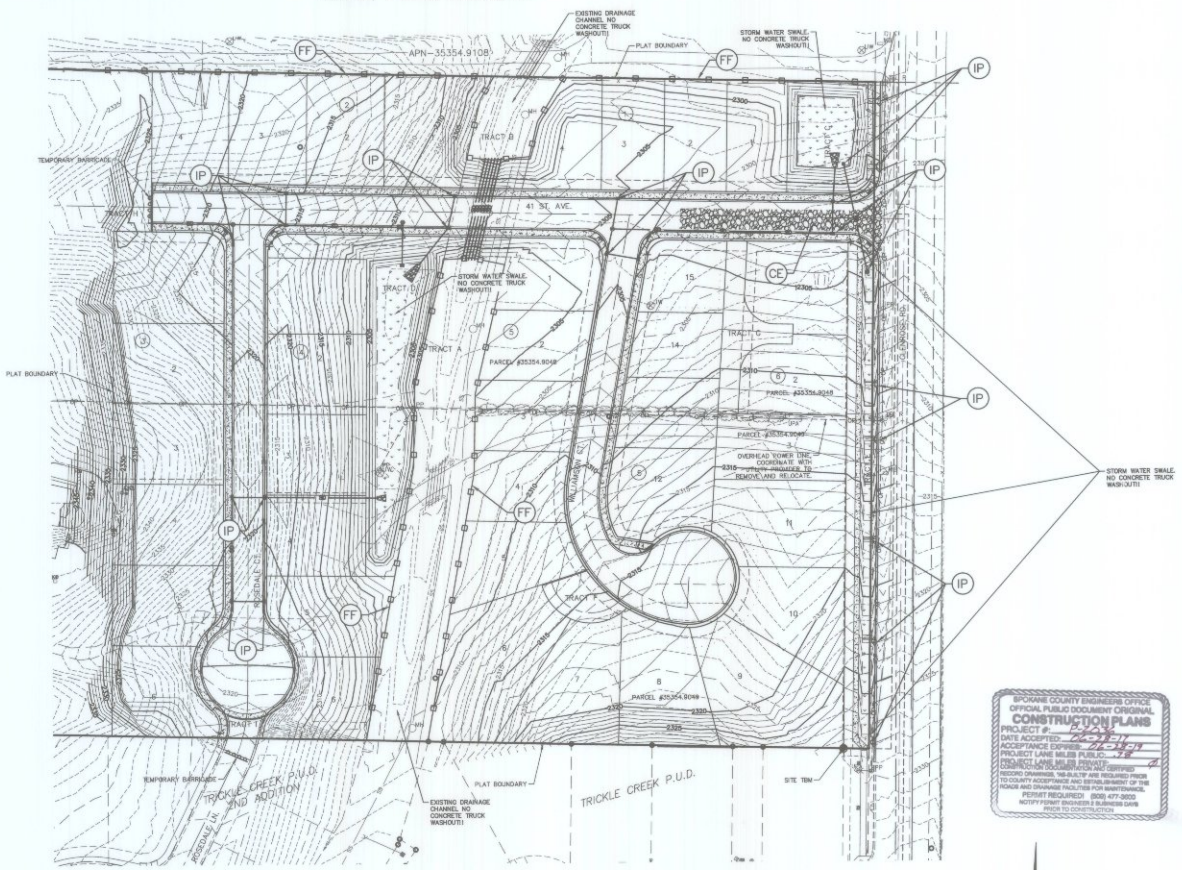
SHEET TITLE: EROSION AND SEDIMENT CONTROL NOTES

PROJECT TITLE: TRICKLE CREEK 3rd AND 4th ADDITION SPOKANE COUNTY, WASHINGTON

SEAL: MARK E. JOHNSON, STATE OF WASHINGTON, 43186, REGISTERED PROFESSIONAL ENGINEER, 6-22-17

DATE: 06/19/2017
DRAWN: LMC
CHECKED: MEJ
PROJECT NUMBER: 14-234
DRAWING NO.: 2 OF 11
ESC

SEC. 35, T. 25 N., R. 43 E., WM



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 14-234
DATE ACCEPTED: 10/19/17
ACCEPTANCE EXPIRES: 10/19/19
PROJECT LANE MILES PUBLIC: 0.77
PRIVATE: 0
ROAD DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILT" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

ELEVATION DATUM
BASED ON 57TH & GLENROSE COUNTY ROAD PROJECT (CRP 2879) NOTES FROM COUNTY SURVEYOR DATED 12/12/00. COUNTY TBM'S 11-15 ARE THE BASIS FOR VERTICAL DATUM

LOCATES (2 WORKING DAYS NOTICE REQUIRED PRIOR TO EXCAVATION)
LOCAL CALLING NUMBERS
SPOKANE COUNTY
8-1-1

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.

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.

NOTE: REFER TO COVER SHEET FOR VICINITY MAP.

No.	DESC. / DATE	BY
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storhaug
civil engineering | planning
landscape architecture | surveying
510 east third avenue | spokane, wa 99202
p 509.242.1000 | f 509.242.1001

SHEET TITLE: EROSION AND SEDIMENT CONTROL PLAN

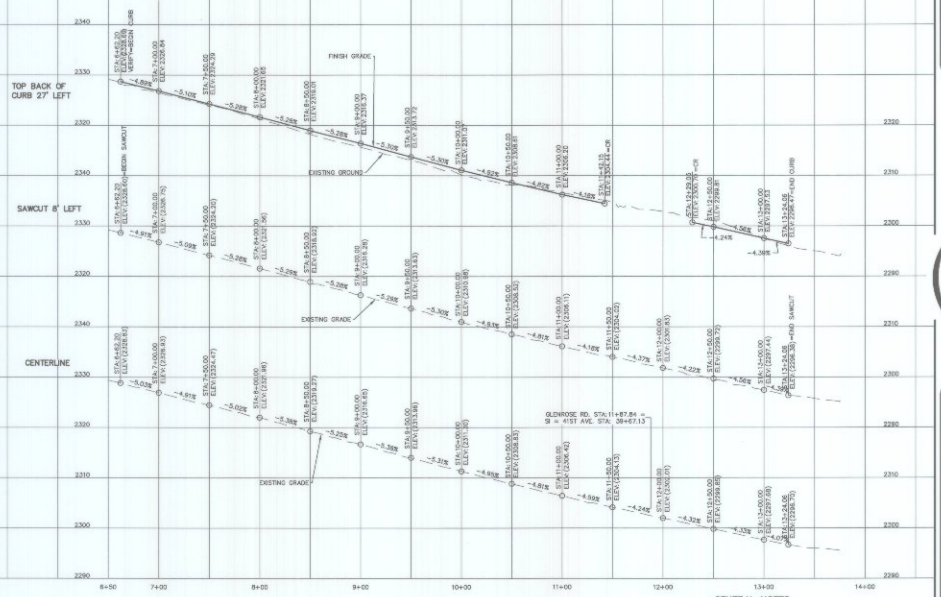
PROJECT TITLE: TRICKLE CREEK 3rd AND 4th ADDITION SPOKANE COUNTY, WASHINGTON

SEAL

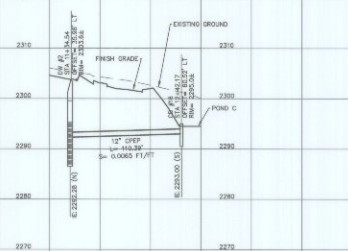
DATE	06/19/2017
DRAWN	LMC
CHECKED	MEJ
PROJECT NUMBER	14-234
DRAWING NO.	3 OF 11
	ESC

14-234 - ST 3 COVER EROS NOTES.dwg Jun 3 2026

SEC. 35, T. 25 N., R. 43 E., WM



GLENROSE ROAD PROFILE



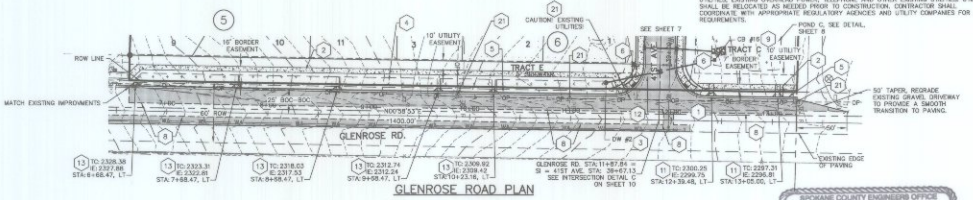
STORM LINE PROFILE

TABLE

1. ASPHALT PAVEMENT. SEE "GLENROSE RD. SECTION", SHEET 9 FOR MORE INFORMATION.
2. 5 FOOT WIDE SEPARATED SIDE WALK PER SPOKANE COUNTY STD. PLAN A-4.
3. DOUBLE DEPTH DRY WELL, TYPE 'B' IN SWALE PER SPOKANE COUNTY STD. PLAN B-14. THE GEOTECHNICAL ENGINEER SHALL OBSERVE THE DRYWELL EXCAVATION TO ENSURE PLACEMENT IN SAND LAYER. ANY EXCAVATION NOT OBSERVED BY THE GEOTECHNICAL ENGINEER SHALL BE RE-EXCAVATED TO DEPTH AT CONTRACTORS EXPENSE.
4. ROAD SIDE BIO-SWALE PER GLENROSE CROSS SECTION SHEET 9. LONGITUDINAL BOTTOM SLOPE SHALL NOT EXCEED 4.90%. PROVIDE 0.33' GRADE STEPS AS REQUIRED TO MAINTAIN 4.90% MAXIMUM SLOPE. CONSTRUCT A 3' WIDE LANDING AT ALL CURB INLETS WITH A 0.17' HIGH BERM. SEE DETAIL ON SHEET 6.
5. TYPE "B" CURB, PER SPOKANE COUNTY STANDARD PLAN A-3.
6. CURB RAMP PER DESIGN "A" OF SPOKANE COUNTY STD. PLAN A-5.
8. SAWCUT, REMOVE PAVING, TACK COAT VERTICAL SURFACES PRIOR TO REPAVING.
9. CATCH BASIN TYPE 1 WITH TYPE 1 FRAME, & TYPE 3 GRATE, PER SPOKANE COUNTY STD. PLANS B-4, B-13, & B-14. SEE PROFILE AND POND DETAILS FOR MORE INFORMATION.
11. CURB INLET TYPE 2, PER SPOKANE COUNTY STD. PLAN B-8, IN WALK. CONNECT CURB DROP APRON TO TYPE 2 INLET I.E.
12. ADS N-12 STORM DRAIN PIPE, SEE PROFILE FOR MORE INFORMATION.
13. 3.5' CURB INLET TYPE 1, PER SPOKANE COUNTY STD. PLAN B-8.
21. RELOCATE EXISTING UTILITIES MINIMUM 3-FEET BEHIND TOP BACK OF CURB, COORDINATE WITH UTILITY PROVIDERS FOR RELOCATION.

GENERAL NOTES

1. ALL "STATION AND OFFSET" LABELS REFERENCE GLENROSE RD. CENTERLINE ALIGNMENT.
2. SEE NOTES, SHEET 9.
3. ALL CURB AND OFFSET DATA IS REFERENCED TO TOP BACK OF CURB, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL VERIFY UTILITY SERVICE ELEVATIONS AT ALL CROSSINGS PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE IMPROVEMENTS.
5. LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND AND OVERHEAD UTILITIES. EXISTING OVERHEAD POWER, TELEPHONE AND OTHER EXISTING UTILITIES, UTILITIES SHALL BE RELOCATED AS NEEDED PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE REGULATORY AGENCIES AND UTILITY COMPANIES FOR ALL REQUIREMENTS.



GLENROSE ROAD PLAN

GRAPHIC SCALE

(IN FEET)
HORIZ: 1 inch = 50 ft.
VERT: 1 inch = 10 ft.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 14-234
DATE ACCEPTED: 06-29-17
ACCEPTANCE EXPIRES: 06-29-19
PROJECT LANE MILES PUBLIC: .78
PROJECT LANE MILES PRIVATE: .04
RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3650
NOTIFY PERMIT ENGINEER 5 BUSINESS DAYS PRIOR TO CONSTRUCTION

LOCATES (2 WORKING DAYS NOTICE REQUIRED PRIOR TO EXCAVATION)
LOCAL CALLING NUMBERS
SPOKANE COUNTY
8-1-1

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.

14-234 - ST 4-6 GLENROSE ROSEDALE WILLIAMSON.dwg SH 04 GLENROSE

No.	DESC. / DATE	BY
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storhaug
civil engineering | planning
landscape architecture | surveying
310 east third avenue | spokane, wa | 99202
p 509.242.1000 | f 509.242.1001

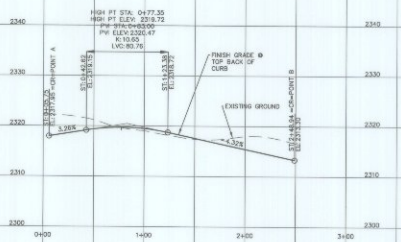
SHEET TITLE: GLENROSE ROAD 6+60 TO 13+25

PROJECT TITLE: TRICKLE CREEK 3rd AND 4th ADDITION SPOKANE COUNTY, WASHINGTON

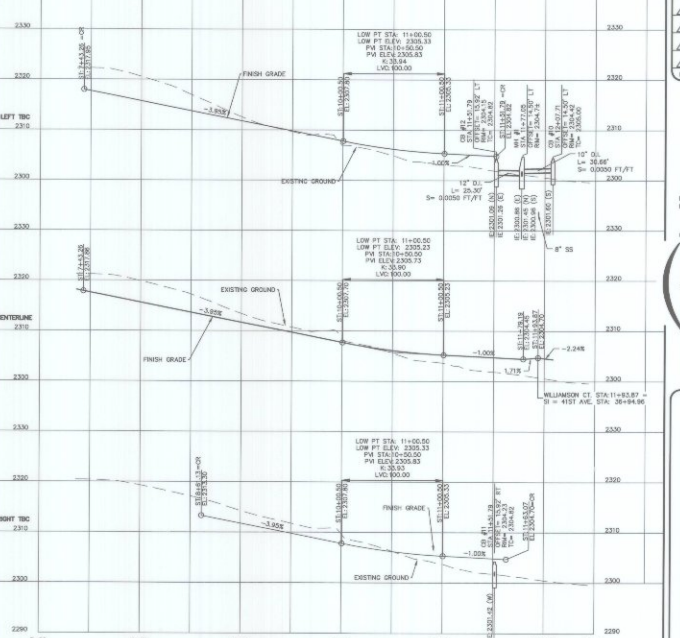
SEAL: MICHAEL E. JOHNSON STATE OF WASHINGTON 43196 REGISTERED PROFESSIONAL ENGINEER 6-12-17

DATE	06/19/2017
DRAWN	LMC
CHECKED	MEJ
PROJECT NUMBER	14-234
DRAWING NO.	4 OF 11
	ROAD

SEC. 35, T. 25 N., R. 43 E., WM



WILLIAMSON CT. CUL-DE-SAC PROFILE

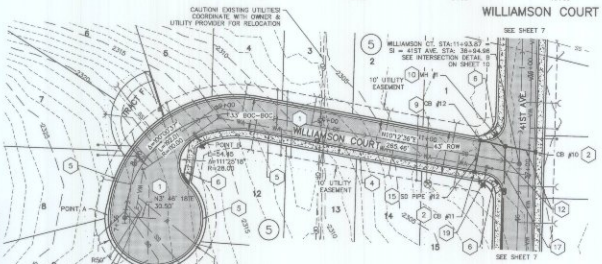


WILLIAMSON COURT PROFILE

TABLE

1. ASPHALT PAVEMENT. SEE STREET CROSS SECTION DETAIL, SHEET 9 FOR MORE INFORMATION.
2. CATCH BASIN TYPE 1 WITH TYPE 1 FRAME, & TYPE 1 GRATE, PER SPOKANE COUNTY STD. PLANS B-4, B-10 & B-12. SEE PROFILE FOR MORE INFORMATION. PROVIDE 5' TRANSITION IN CURB EACH SIDE PER DETAIL, SHEET 11.
4. 6 FOOT WIDE ATTACHED SIDE WALK PER SPOKANE COUNTY STD. PLAN A-4.
5. TYPE "B" CURB, PER SPOKANE COUNTY STANDARD PLAN A-3.
6. CURB RAMP PER DESIGN "A" OF SPOKANE COUNTY STD. PLAN A-5.
9. CATCH BASIN TYPE 1 WITH TYPE 2 FRAME W/ HOOD & TYPE 3 GRATE, PER SPOKANE COUNTY STD. PLANS B-4, B-11 & B-14. SEE PROFILE FOR MORE INFORMATION. PROVIDE 5' TRANSITION IN CURB EACH SIDE PER DETAIL, SHEET 11.
10. CATCH BASIN TYPE 2, WITH WITH CIRCULAR FRAME AND SOLID COVER PER WSDOT STD. PLAN B-30.20-00 & B-30.70-01. RIM TO MATCH FINISH GRADE. SEE PROFILE FOR MORE INFORMATION.
12. ADS N-12 STORM DRAIN PIPE. SEE PROFILE FOR MORE INFORMATION.
15. STORM DRAIN PIPE. SEE PIPE TABLE FOR MORE INFORMATION.
17. WATER MAIN SLEEVE. SEE WATER PLANS FOR MORE INFORMATION.
19. (2) "PUBLIC ROAD" SIGNS ON A SINGLE POLE, PER MUTCD STANDARDS & SPOKANE COUNTY STD. DETAILS, A-18, A-16A AND A-18B.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 2-22-17
DATE ACCEPTED: 2-22-17
ACCEPTANCE EXPIRES: 2-22-2019
PROJECT LANE MILES PUBLIC: 0.25
PROJECT LANE MILES PRIVATE: 0.25
CONTRACTOR SHALL PROVIDE AS-BUILT OR CERTIFIED RECORD DRAWINGS, YAS-BUILT# ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3009
NOTIFY PERMIT ENGINEER 5 BUSINESS DAYS PRIOR TO CONSTRUCTION



WILLIAMSON COURT PLAN

GRAPHIC SCALE

(IN FEET)
HORZ: 1 inch = 50 ft.
VERT: 1 inch = 10 ft.

STORM PIPE TABLE		
NAME	DETAILS	STRUCTURES
SD PIPE #12	10" D.I. L= 31.8 S= 0.0050 FT/FT	I.E. UP (CB #11) 2301.42 I.E. DOWN (CB #12) 2301.26

GENERAL NOTES

1. ALL "STATION AND OFFSET" LABELS REFERENCE WILLIAMSON CT. CENTERLINE ALIGNMENT.
2. SEE NOTES, SHEET 9.
3. ALL CURB AND OFFSET DATA IS REFERENCED TO TOP BACK OF CURB, UNLESS OTHERWISE NOTED. SEE SHEET 10 FOR CURVE INFORMATION.
4. CONTRACTOR SHALL VERIFY UTILITY SERVICE ELEVATIONS AT ALL CROSSINGS PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE IMPROVEMENTS.
5. LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND AND OVERHEAD UTILITIES, EXISTING OVERHEAD POWER, TELEPHONE AND OTHER EXISTING UTILITIES. UTILITIES SHALL BE RELOCATED AS NEEDED PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE REGULATORY AGENCIES AND UTILITY COMPANIES FOR ALL REQUIREMENTS.

LOCATES (2 WORKING DAYS NOTICE REQUIRED PRIOR TO EXCAVATION)
LOCAL CALLING NUMBERS
SPOKANE COUNTY
8-1-1

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 CONSIDERED AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL 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.

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storhaug
civil engineering | planning
landscape architecture | surveying
510 east third avenue | spokane, wa | 99202
p 509.326.2700 | f 509.326.2702

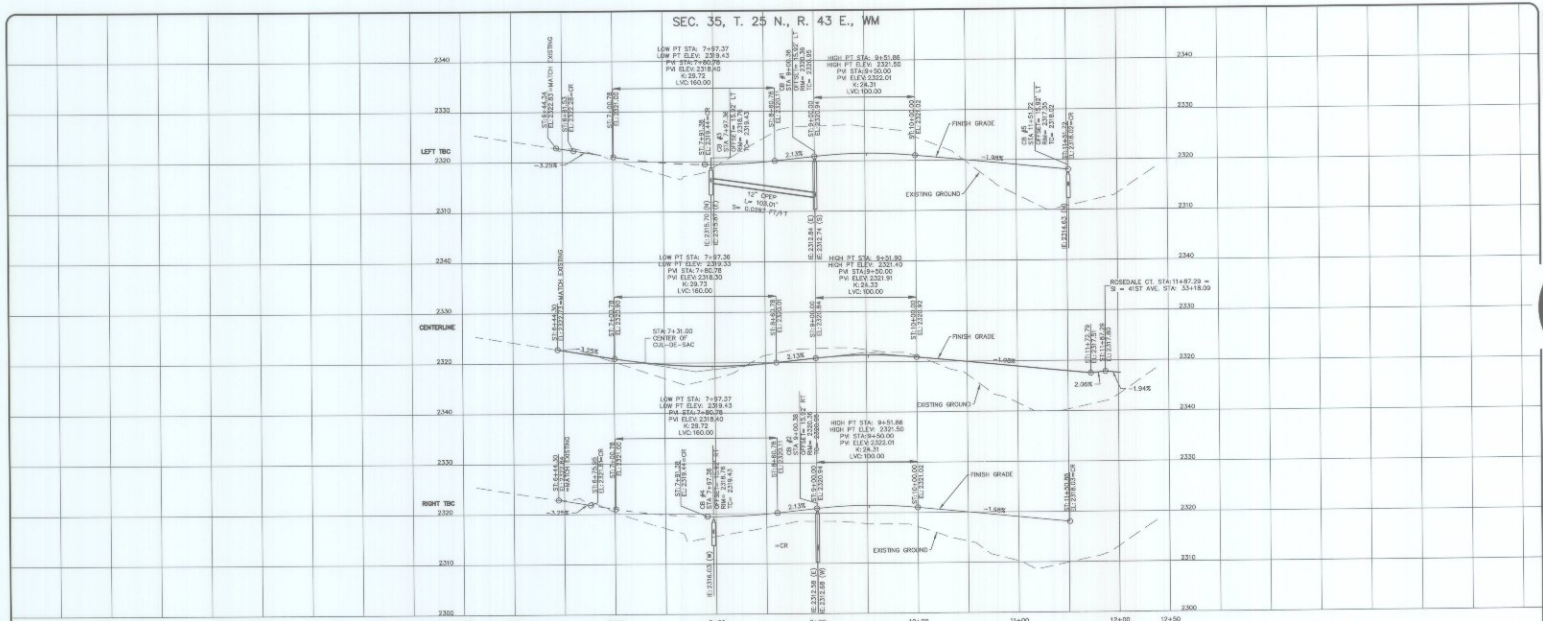
SHEET TITLE: WILLIAMSON COURT PLAN & PROFILE 8+00-12+25
PROJECT TITLE: TRICKLE CREEK 3rd AND 4th ADDITION SPOKANE COUNTY, WASHINGTON

SEAL

STATE OF WASHINGTON
43196
REGISTERED PROFESSIONAL ENGINEER
A. E. FOUNTAIN

DATE	06/19/2017
DRAWN	LMC
CHECKED	MEJ
PROJECT NUMBER	14-234
DRAWING NO.	5 OF 11
	ROAD

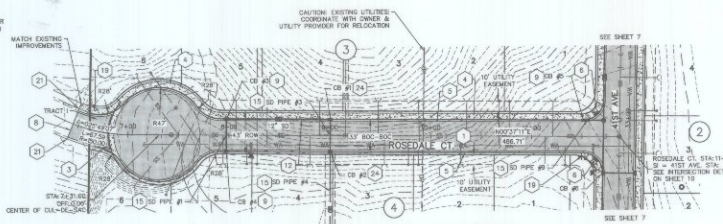
14-234 - ST 4-4 GLENROSE ROSEVALE WILLIAMSON.dwg SH 05 WILLIAMSON



ROSEADLE COURT PROFILE

TABLE

1. ASPHALT PAVEMENT. SEE STREET CROSS SECTION DETAIL, SHEET 9 FOR MORE INFORMATION.
2. CATCH BASIN TYPE 1 WITH TYPE 1 FRAME, & TYPE 1 GRATE, PER SPOKANE COUNTY STD. PLANS B-4, B-10 & B-12. SEE PROFILE FOR MORE INFORMATION. PROVIDE 5' TRANSITION IN CURB EACH SIDE PER DETAIL, SHEET 11.
3. PCC PAVING, MINIMUM 6" PCC ON 4" CSTC PER SPOKANE COUNTY STDS.
4. 6 FOOT WIDE ATTACHED SIDE WALK PER SPOKANE COUNTY STD. PLAN A-4.
5. TYPE "B" CURB, PER SPOKANE COUNTY STANDARD PLAN A-3.
6. CURB RAMP PER DESIGN "A" OF SPOKANE COUNTY STD. PLAN A-5.
8. SAWCUT, REMOVE PAVING, TACK COAT VERTICAL SURFACES PRIOR TO REPAVING.
9. CATCH BASIN TYPE 1 WITH TYPE 2 FRAME W/ HOOD & TYPE 3 GRATE, PER SPOKANE COUNTY STD. PLANS B-4, B-11 & B-14. SEE PROFILE FOR MORE INFORMATION. PROVIDE 5' TRANSITION IN CURB EACH SIDE PER DETAIL, SHEET 11.
12. ADS N-12 STORM DRAIN PIPE, SEE PROFILE FOR MORE INFORMATION.
15. STORM DRAIN PIPE, SEE PIPE TABLE FOR MORE INFORMATION.
18. (1) "PRIVATE ROAD" SIGN ON A SINGLE POLE, PER MUTCD STANDARDS & SPOKANE COUNTY STD. DETAILS, A-16, A-16A AND A-16B.
19. (2) "PUBLIC ROAD" SIGNS ON A SINGLE POLE, PER MUTCD STANDARDS & SPOKANE COUNTY STD. DETAILS, A-16, A-16A AND A-16B.
21. TRANSITION FROM STANDARD CURB & GUTTER TO ROLLED CURB AND GUTTER, PER DETAIL ON SHEET 11.
23. TRASH RACK, PER DETAIL SHEET 8.
24. CATCH BASIN TYPE 2 PER WSDOT STD. PLAN B-10.20-01 WITH TYPE 1 FRAME, & TYPE 1 GRATE, PER SPOKANE COUNTY STD. PLANS B-4, B-10 & B-12. SEE PROFILE FOR MORE INFORMATION. PROVIDE 5' TRANSITION IN CURB EACH SIDE PER DETAIL, SHEET 11.



ROSEADLE COURT PLAN

GENERAL NOTES

1. ALL "STATION AND OFFSET" LABELS REFERENCE ROSEDALE COURT. CENTERLINE ALIGNMENT.
2. SEE NOTES, SHEET 8.
3. ALL CURB AND OFFSET DATA IS REFERENCED TO TOP BACK OF CURB, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL VERIFY UTILITY SERVICE ELEVATIONS AT ALL CROSSINGS PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE IMPROVEMENTS.
5. LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND AND OVERHEAD UTILITIES. EXISTING OVERHEAD POWER, TELEPHONE AND OTHER EXISTING UTILITIES. UTILITIES SHALL BE RELOCATED AS NEEDED PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE REGULATORY AGENCIES AND UTILITY COMPANIES FOR ALL REQUIREMENTS.

STORM PIPE TABLE

NAME	DETAILS	STRUCTURES
SD PIPE #1	10" D.I. L= 31.8 S= 0.0050 FT/FT	I.E. UP (CB #4) 2316.03 I.E. DOWN (CB #3) 2315.87
SD PIPE #3	12" CPEP L= 31.8 S= 0.0050 FT/FT	I.E. UP (CB #1) 2312.84 I.E. DOWN (CB #2) 2312.68
SD PIPE #4	12" CPEP L= 112.7 S= 0.0885 FT/FT	I.E. UP (CB #2) 2312.58 I.E. DOWN (POND D) 2302.83
SD PIPE #9	10" CPEP L= 19.8 S= 0.0050 FT/FT	I.E. UP (CB #5) 2314.63 I.E. DOWN (MH #2) 2314.53

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 6-234-17
DATE ACCEPTED 12-23-17
ACCEPTANCE EXPIRES 12-23-19
PROJECT LANE MILES PUBLIC 0.12
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

GRAPHIC SCALE

50 0 25 50 100

(IN FEET)
HORIZ: 1 inch = 50 ft.
VERT: 1 inch = 10 ft.

LOCATES (2 WORKING DAYS NOTICE REQUIRED PRIOR TO EXCAVATION)
LOCAL CALLING NUMBERS
SPOKANE COUNTY 8-1-1

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.

No.	DESC. / DATE	BY
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storhaug
civil engineering | planning
landscape architecture | surveying
510 east third avenue | spokane, wa | 99202
p 509.242.1000 | f 509.242.1001

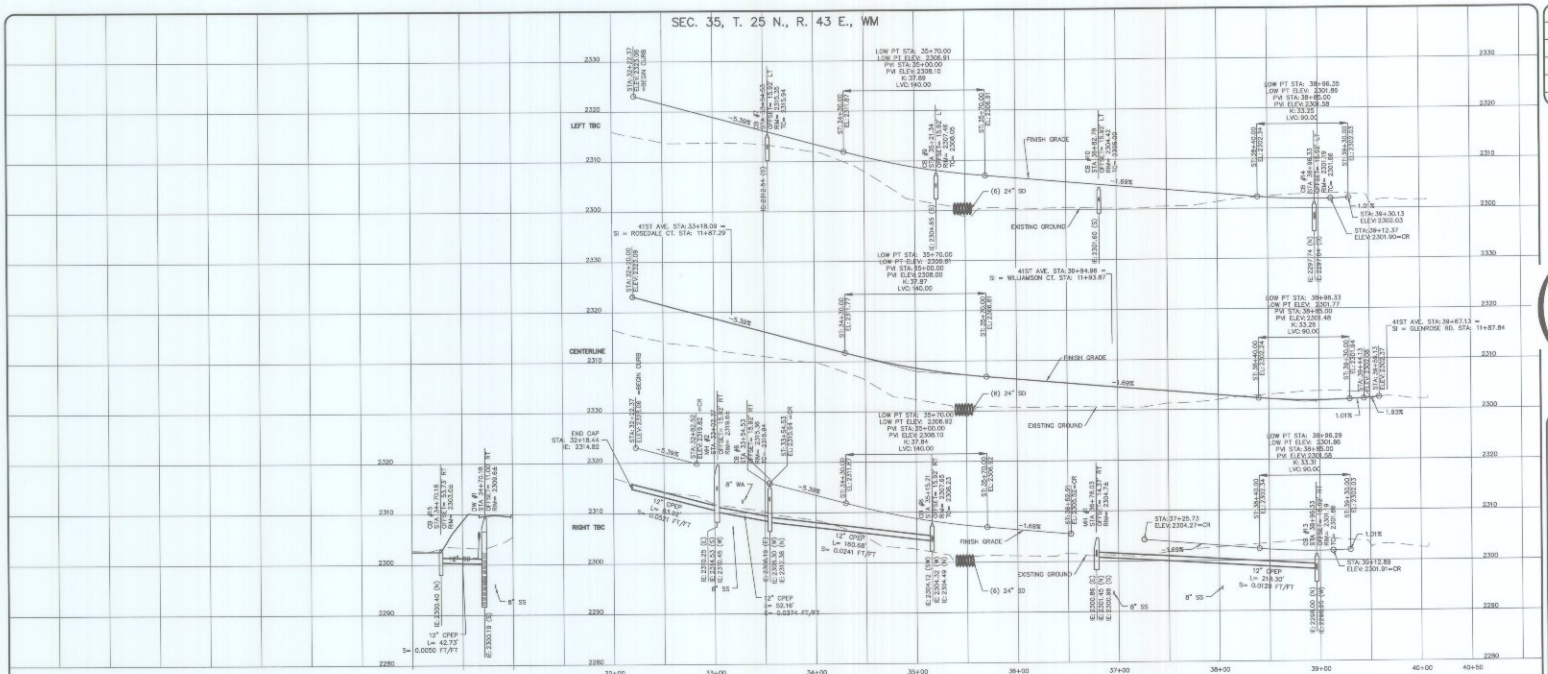
SHEET TITLE: ROSEADLE COURT PLAN & PROFILE 6+50 TO 12+00

PROJECT TITLE: TRICKLE CREEK 3rd AND 4th ADDITION SPOKANE COUNTY, WASHINGTON

SEAL: STATE OF WASHINGTON 43140 REGISTERED PROFESSIONAL ENGINEER 12-14-17

DATE	06/19/2017
DRAWN	LMC
CHECKED	MEJ
PROJECT NUMBER	14-234
DRAWING NO.	6 OF 11
	ROAD

14-234 - ST & R ELEVROSE ROSEDALE VALUMAGIC.dwg SH 06 ROSEDALE

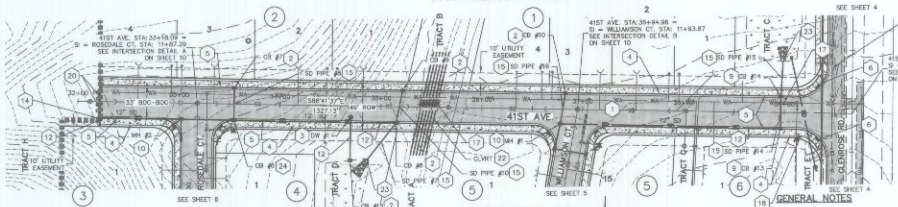


TABLE

1. ASPHALT PAVEMENT, SEE STREET CROSS SECTION DETAIL, SHEET 9 FOR MORE INFORMATION.
2. CATCH BASIN TYPE 1 WITH TYPE 1 FRAME, & TYPE 1 GRATE, PER SPOKANE COUNTY STD. PLANS B-4, B-10 & B-12. SEE PROFILE FOR MORE INFORMATION. PROVIDE 5' TRANSITION IN CURB EACH SIDE PER DETAIL, SHEET 11.
3. DOUBLE DEPTH DRY WELL, TYPE "B" IN PARKING PER SPOKANE COUNTY STD. PLAN B-1. THE GEOTECHNICAL ENGINEER SHALL OBSERVE THE DRYWELL EXCAVATION TO ENSURE PLACEMENT IN SAND LAYER. ANY EXCAVATION NOT OBSERVED BY THE GEOTECHNICAL ENGINEER SHALL BE RE-EXCAVATED TO DEPTH AT CONTRACTORS EXPENSE.
4. 6 FOOT WIDE ATTACHED SIDE WALK PER SPOKANE COUNTY STD. PLAN A-4.
5. TYPE "B" CURB, PER SPOKANE COUNTY STANDARD PLAN A-3.
6. CURB RAMP PER DESIGN "A" OF SPOKANE COUNTY STD. PLAN A-5.
9. CATCH BASIN TYPE 1 WITH TYPE 2 FRAME W/ HOOD & TYPE 3 GRATE, PER SPOKANE COUNTY STD. PLANS B-4, B-11 & B-14. SEE PROFILE FOR MORE INFORMATION. PROVIDE 5' TRANSITION IN CURB EACH SIDE PER DETAIL, SHEET 11.
10. CATCH BASIN TYPE 2, WITH WITH CIRCULAR FRAME AND SOLID COVER PER WSDOT STD. PLAN B-10.20-01 & B-30.70-01. RIM TO MATCH FINISH GRADE. SEE PROFILE FOR MORE INFORMATION.
11. CURB INLET TYPE 2, PER SPOKANE COUNTY STD. PLAN B-6.
12. ADS N-12 STORM DRAIN PIPE, SEE PROFILE FOR MORE INFORMATION.
14. STORM DRAIN PIPE END CAP AND 2X4 MARKER.
15. STORM DRAIN PIPE, SEE PIPE TABLE FOR MORE INFORMATION.
17. WATER MAIN SLEEVE, SEE WATER PLANS FOR MORE INFORMATION.
18. (2) "PUBLIC ROAD" SIGNS AND A "STOP" SIGN (R1-1) ON A SINGLE POLE, PER MUTCD STANDARDS & SPOKANE COUNTY STD. DETAILS, A-16, A-16A AND A-16B.
20. TYPE III BARRICADE PER WSDOT STD. K-80.20-00
22. (6) 24" CULVERTS CPEP
    LENGTH=104'
    E IN SOUTH=2300.95
    E OUT NORTH=2298.25
    SLOPE=0.0192 FT/FT
23. TRASH RACK, PER DETAIL SHEET 8.
24. CATCH BASIN TYPE 2 PER WSDOT STD. PLAN B-10.20-01 WITH TYPE 1 FRAME & TYPE 1 GRATE, PER SPOKANE COUNTY STD. PLANS B-4, B-10 & B-12. SEE PROFILE FOR MORE INFORMATION. PROVIDE 5' TRANSITION IN CURB EACH SIDE PER DETAIL, SHEET 11.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 17-234
DATE ACCEPTED: 6/19/2017
ACCEPTANCE EXPIRES: 6/19/2019
PROJECT LANE MILES PUBLIC: .72
PROJECT LANE MILES PRIVATE: .11
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILT" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

41ST AVENUE PROFILE



41ST AVENUE PLAN

STORM PIPE TABLE		
NAME	DETAILS	STRUCTURES
SD PIPE #7	18" CPEP L= 46.9 S= 0.0275 FT/FT	I.E. UP (CB #6) 2304.12 I.E. DOWN (POND D) 2302.83
SD PIPE #8	10" D.I. L= 31.8 S= 0.0050 FT/FT	I.E. UP (CB #7) 2312.54 I.E. DOWN (CB #8) 2312.38
SD PIPE #9	10" CPEP L= 19.9 S= 0.0050 FT/FT	I.E. UP (CB #8) 2314.63 I.E. DOWN (MH #2) 2314.53
SD PIPE #10	10" D.I. L= 32.4 S= 0.0050 FT/FT	I.E. UP (CB #9) 2304.65 I.E. DOWN (CB #9) 2304.49

STORM PIPE TABLE		
NAME	DETAILS	STRUCTURES
SD PIPE #14	15" D.I. L= 31.6 S= 0.0050 FT/FT	I.E. UP (CB #13) 2298.00 I.E. DOWN (CB #14) 2297.84
SD PIPE #15	15" CPEP L= 34.9 S= 0.0834 FT/FT	I.E. UP (CB #14) 2297.74 I.E. DOWN (POND C) 2294.83
SD PIPE #16	10" D.I. L= 30.7 S= 0.0050 FT/FT	I.E. UP (CB #10) 2301.80 I.E. DOWN (MH #3) 2301.45

GRAPHIC SCALE

0 10 20 30 40 50 100

(IN FEET)
HORIZ: 1 inch = 50 ft.
VERT: 1 inch = 10 ft.

GENERAL NOTES

1. ALL "STATION AND OFFSET" LABELS REFERENCE 41ST AVE. CENTERLINE ALIGNMENT.
2. SEE NOTES, SHEET 9.
3. ALL CURB AND OFFSET DATA IS REFERENCED TO TOP BACK OF CURB, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL VERIFY UTILITY SERVICE ELEVATIONS AT ALL CROSSINGS PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE IMPROVEMENTS.
5. LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND AND OVERHEAD UTILITIES. EXISTING OVERHEAD POWER, TELEPHONE AND OTHER EXISTING UTILITIES UTILITIES SHALL BE RELOCATED AS NEEDED PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE REGULATORY AGENCIES AND UTILITY COMPANIES FOR ALL REQUIREMENTS.

LOCATES (2 WORKING DAYS NOTICE REQUIRED PRIOR TO EXCAVATION)
LOCAL CALLING NUMBERS
SPOKANE COUNTY 8-1-1

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, UNLESS 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 BEGINNING WORK 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.

No.	DESC. / DATE	BY
1		
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4		
5		
6		

storhaug
civil engineering planning
landscape architecture surveying
510 east third avenue | spokane, wa | 99202
p 509.242.1000 | f 509.242.1001

SHEET TITLE: 41ST AVENUE PLAN & PROFILE 32+00 TO 39+80
PROJECT TITLE: TRICKLE CREEK 3rd AND 4th ADDITION SPOKANE COUNTY, WASHINGTON

SEAL

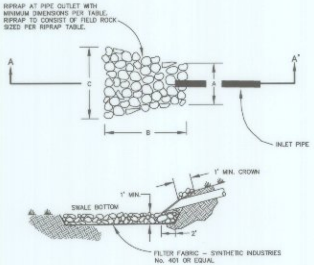
STATE OF WASHINGTON 43508 LICENSED PROFESSIONAL ENGINEER
6-19-17

DATE: 06/19/2017
DRAWN: LMC
CHECKED: MEJ
PROJECT NUMBER: 14-234
DRAWING NO.: 7 OF 11
ROAD

14-234 - S7 7 41ST.dwg 41ST

SEC. 35, T. 25 N., R. 43 E., WM

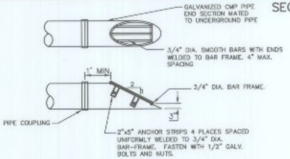
DRAINAGE PIPE OUTFALLS								
LOCATION		ROCK SIZE			PAD DIMENSIONS			
PIPE SIZE	LOCATION	MIN.	AVG.	MAX.	THICKNESS	A	B	C
15" SD	POND D NORTH	5"	7"	10"	12.0"	4'	18'	11'
12" SD	POND D SOUTH	4"	5"	6"	12.0"	3'	9'	7'
15" SD	POND C	6"	8"	10"	12.0"	4'	14'	10'



SECTION A–A'

RIP RAP DETAIL

NTS



NOTE: ALL STEEL PARTS MUST BE GALVANIZED AND ASPHALT COATED, TREATMENT 1 OR BETTER.

TRASH RACK DETAIL

NTS

ALL DISTURBED AREAS SHALL BE SEEDED, PER THE ESC STANDARD NOTES.

PROVIDE FRESH, CLEAN NEW CROP SEED COMPLYING WITH TOLERANCE FOR PURITY AND GERMINATION ESTABLISHED BY OFFICIAL SEED ANALYSTS OF NORTH AMERICA. PROVIDE SEED MIXTURE COMPOSED OF GRASS SPECIES AND PERCENTAGES AS FOLLOWS:

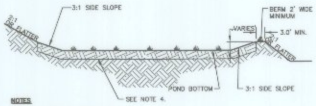
20 PERCENT ELKA PERENNIAL RYE
20 PERCENT DURAR HARD FESCUE
45 PERCENT COVAR SHEEP /FESCUE
15 PERCENT REUBENS CANADIAN BLUEGRASS

PROVIDE MIXTURE COMPOSED OF GRASS SEED AND FERTILIZER IN PERCENTAGES AS FOLLOWS:

GRASS SEED MIXTURE: 80 LBS. PER ACRE
FERTILIZER: 16:16:16 TIMED RELEASE COMPOSITION, 300 LBS. PER ACRE

CONTRACTOR SHALL IRRIGATE SEEDED AREAS UNTIL SEED HAS GERMINATED AND HAS BEEN ACCEPTED BY OWNER.

SEEDING SPECIFICATION



NOTES

1. SEED OR SOD PER LANDSCAPE PLAN.
2. SWALE SIDE SLOPES TO BE 3:1 MAX (H:V).
3. GRADE OF THE SWALE BOTTOM SHALL NOT EXCEED 1.0%.
4. SEE SWALE TOPSOIL REQUIREMENTS FOR REQUIRED SOIL CONDITIONS. FILL PLACED BENEATH SWALE FOOTPRINTS MUST HAVE INFILTRATION CAPACITY GREATER THAN 0.15 INCHES PER HOUR AND CONTAIN LESS THAN 12 PERCENT SOIL FINES. UNDOCUMENTED FILL ENCOUNTERED DURING EXCAVATION IS UNSUITABLE FOR STORMWATER DISPOSAL AND SWALE INVERTS MUST EXPOSE NATIVE SOIL. THIS MAY REQUIRE OVEREXCAVATION BENEATH THE SWALE FOOTPRINT. THE GEOTECHNICAL ENGINEER SHALL OBSERVE SWALE SUBGRADES TO DOCUMENT THAT NATIVE SOIL HAS BEEN EXPOSED DURING CONSTRUCTION. SEE THE GEOTECHNICAL ENGINEERING REPORT DATED FEBRUARY 7, 2017.

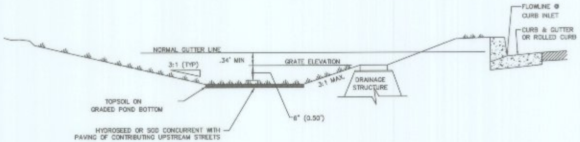
POND DETAIL

NTS

SWALE LEGEND

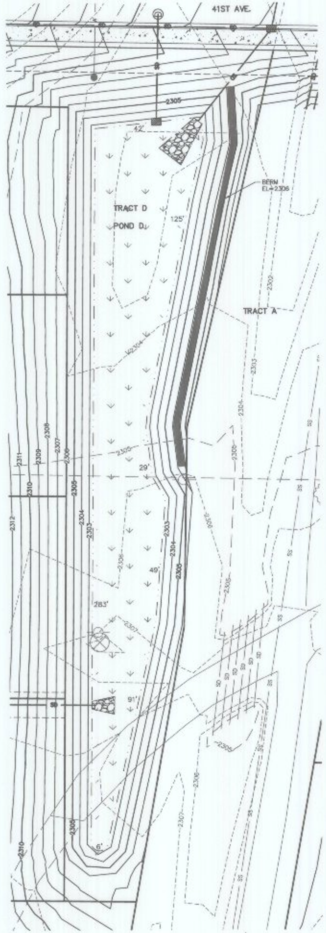
——1924——	CONTOURS
(pattern)	STORM WATER POND BOTTOM

*SEE COVER SHEET FOR ADDITIONAL LEGEND ITEMS



TYPICAL '208' POND WITH DRAINAGE STRUCTURE

NTS

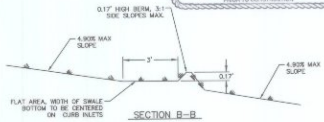


POND "D" AREAS AND ELEVATIONS:
BOTTOM ELEVATION: 2302.50
BOTTOM AREA: 7242 SF

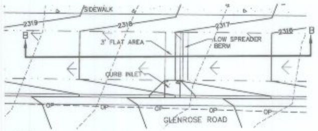
POND "D" DETAIL

SCALE 1"=20'

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-2036
DATE ACCEPTED: 06-28-17
ACCEPTANCE EXPIRES: 06-28-19
PROJECT LANE MILES PUBLIC: .78
PROJECT LANE MILES PRIVATE: Ø
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



SECTION B–B

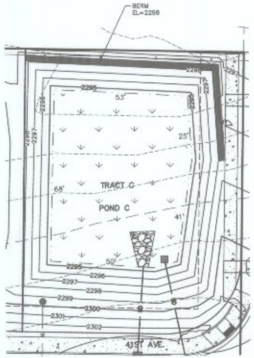


NOTES

1. SEED OR SOD PER LANDSCAPE PLAN.
2. SWALE SIDE SLOPES TO BE 3:1 MAX (H:V).
3. GRADE OF THE SWALE BOTTOM SHALL NOT EXCEED 4.90%.
4. SEE SWALE TOPSOIL REQUIREMENTS FOR REQUIRED SOIL CONDITIONS. FILL PLACED BENEATH SWALE FOOTPRINTS MUST HAVE INFILTRATION CAPACITY GREATER THAN 0.15 INCHES PER HOUR AND CONTAIN LESS THAN 12 PERCENT SOIL FINES. UNDOCUMENTED FILL ENCOUNTERED DURING EXCAVATION IS UNSUITABLE FOR STORMWATER DISPOSAL AND SWALE INVERTS MUST EXPOSE NATIVE SOIL. THIS MAY REQUIRE OVEREXCAVATION BENEATH THE SWALE FOOTPRINT. THE GEOTECHNICAL ENGINEER SHALL OBSERVE SWALE SUBGRADES TO DOCUMENT THAT NATIVE SOIL HAS BEEN EXPOSED DURING CONSTRUCTION. SEE THE GEOTECHNICAL ENGINEERING REPORT DATED FEBRUARY 7, 2017.

GLENROSE BIO–SWALE DETAIL AT TYPICAL INLET

NTS



POND "C" AREAS AND ELEVATIONS:
BOTTOM ELEVATION: 2294.50
BOTTOM AREA: 3596 SF

POND "C" DETAIL

SCALE 1"=20'

LOCATES (2 WORKING DAYS NOTICE REQUIRED PRIOR TO EXCAVATION)
LOCAL CALLING NUMBERS
SPOKANE COUNTY 8–1–1

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.

14–234 – ST 8 POND.dwg SH–8 ST POND

No.	DESC. / DATE	BY
5		
4		
3		
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storhäug
civil engineering | planning
landscape architecture | surveying
510 east third avenue | spokane, wa | 99202
p 509.242.1000 | f 509.242.1001

SHEET TITLE: POND DETAILS

PROJECT TITLE: TRICKLE CREEK 3rd AND 4th ADDITION
SPOKANE COUNTY, WASHINGTON

SEAL: MARK E. JOHNSON, STATE OF WASHINGTON, 43188, REGISTERED PROFESSIONAL ENGINEER, 6-22-17

DATE	06/19/2017
DRAWN	LMC
CHECKED	MEJ
PROJECT NUMBER	14–234
DRAWING NO.	8 OF 11
	DETAIL

SEC. 35, T. 25 N., R. 43 E., WM

1. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE SPOKANE COUNTY ROAD STANDARDS, 2010.

2. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 811 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 STREET AND DRAINAGE FACILITIES.

4. THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE ACCEPTED STREET 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.

6. THE CONTRACTOR SHOULD TAKE PRECAUTIONS TO PROTECT THE INFILTRATION CAPACITY OF STORMWATER FACILITIES (E.G., LINE THE FACILITY WITH FILTER FABRIC, OVER-EXCAVATE UPON COMPLETION OF THE INFRASTRUCTURE, ETC.) NO RUBBER-TIRED VEHICLES, INCLUDING BUT NOT LIMITED TO BACKHOES, GRADERS, LOADERS OR DUMP TRUCKS, SHALL ENTER THE PONDS.

7. FOR ANY CURB GRADES LESS THAN 0.8% (0.008 FT/FT), A PROFESSIONAL LAND SURVEYOR CURRENTLY LICENSED IN THE STATE OF WASHINGTON SHALL VERIFY THAT THE CURB FORMS ARE AT THE GRADES NOTED ON THE ACCEPTED PLANS, PRIOR TO PLACEMENT OF CONCRETE. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING AND COORDINATING WORK WITH THE SURVEYOR.

8. THE CONTRACTOR SHALL EMPLOY A PROFESSIONAL LAND SURVEYOR CURRENTLY LICENSED IN THE STATE OF WASHINGTON TO VERIFY THAT THE CROSS-GUTTER FORMS ARE AT 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.

9. FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC (AMOCO 4545 OR APPROVED EQUIVALENT) BETWEEN THE WASHED DRAIN ROCK AND THE NATIVE SOILS.

10. BIO-INFILTRATION PONDS/SWALES SHALL HAVE A MAXIMUM TREATMENT DESIGN DEPTH (FROM POND/SWALE BOTTOM TO ELEVATION OF DRYWELL GRATE OR FIRST OVERFLOW/OUTFLOW MECHANISM) OF 6 INCHES. ORGANIC MATTER CONTENT TESTING SHALL BE COMPLETED IN ORDER TO SUBSTANTIATE THE TREATMENT SOIL COMPOSITION. THE TESTS SHALL BE PERFORMED ON COMPOSITE SAMPLES TAKEN FROM THE TREATMENT SOIL LAYER FROM THE CONSTRUCTED POND BOTTOM. A COMPOSITE SAMPLE CONSISTS OF WELL-MIXED SOIL OBTAINED FROM AT LEAST FOUR CORES, TO A DEPTH OF AT LEAST 6 INCHES, RANDOMLY DISTRIBUTED OVER THE POND BOTTOM TEST AREA. STOCKPILE SAMPLES FROM ON-SITE OR A MATERIAL SUPPLIER CAN BE TESTED FOR INFORMATIONAL PURPOSES TO DETERMINE INITIAL SUITABILITY AND POSSIBLE SOIL AMENDMENTS, BUT WILL NOT BE ACCEPTED IN-LIEU OF IN-PLACE TESTING. A MINIMUM OF ONE TEST SHALL BE PERFORMED FOR EACH BIO-INFILTRATION POND/SWALE 1,500 SQUARE FEET OR LESS, WITH ONE ADDITIONAL TEST FOR EACH ADDITIONAL 2,000 SQUARE FEET OF POND/SWALE BOTTOM, OR FRACTION THEREOF. "ONE TEST" IS EQUAL TO FOUR CORE SAMPLES TAKEN AS DESCRIBED ABOVE. TESTING RESULTS SHALL BE SUBMITTED AS PART OF THE CONSTRUCTION CERTIFICATION SUBMITTAL REQUIRED FOR RELEASE OF SURETY POSTED ON PROJECT.

11. CONCRETE APRONS ARE REQUIRED AT THE INLET INTO ANY SWALE OR POND. THE FINISH GRADE OF THE SWALE/POND SIDE SLOPE, WHERE THE CONCRETE INLET APRON ENDS, SHALL BE A MINIMUM OF 2 INCHES BELOW THE FINISHED ELEVATION OF THE CONCRETE CURB APRON EXTENSION. THE INTENTION IS TO ALLOW STORMWATER RUNOFF TO ENTER THE SWALE/POND UNOBSTRUCTED, WITHOUT BACKING UP INTO THE STREET AND GUTTER DUE TO SOD OVERGROWTH AT THE INLET.

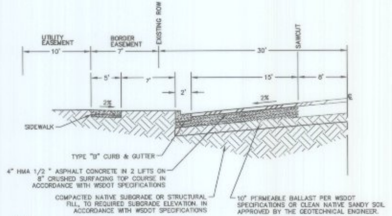
12. UNLINED POND AND BIOINFILTRATION SWALE BOTTOMS ARE EXPECTED TO INFILTRATE VIA THE POND FLOOR, AND THEREFORE, SHALL NOT BE HEAVILY COMPACTED; EQUIPMENT TRAFFIC SHALL BE MINIMIZED ON THE POND BOTTOMS. THE FACILITY SUBGRADE SHALL BE A MEDIUM- TO WELLDRAINING MATERIAL, WITH A MINIMUM THICKNESS OF 48 INCHES AND A MINIMUM INFILTRATION RATE OF 0.15 IN/HR. THE FACILITY SHALL DRAIN WITHIN 72 HOURS OF A STORM EVENT. IF THE POND ALSO SERVES AS A WATER QUALITY TREATMENT FACILITY, THE TREATMENT ZONE (SOD AND 6 INCHES OF TREATMENT SOIL) SHALL BE A MEDIUM- TO WELL-DRAINING MATERIAL, WITH A MINIMUM INFILTRATION RATE OF 0.25-0.50 IN/HR.; SILTY LOAM OR LOAMY SOILS ARE PRESUMED TO HAVE AN INFILTRATIVE RATE THAT FALLS WITHIN THIS RANGE. SCARIFY THE FINISH GRADE OF THE POND BOTTOM PRIOR TO HYDROSEEDING/SODDING. TESTING THAT VERIFIES SUBGRADE MINIMUM INFILTRATION RATE IS REQUIRED BY THE LOCAL JURISDICTION PRIOR TO CONSTRUCTION CERTIFICATION TO ENSURE ADEQUATE DRAINAGE. INFILTRATIVE TESTING OF THE TREATMENT ZONE IS ONLY REQUIRED IF SOILS OTHER THAN SILTY LOAM OR LOAMY SOILS ARE PROPOSED.

13. IF, DURING FINAL INSPECTION, IT IS FOUND THAT THE CONSTRUCTED POND OR SWALE DOES NOT CONFORM TO THE ACCEPTED DESIGN, THE SYSTEM SHALL BE RECONSTRUCTED SO THAT IT DOES COMPLY.

STANDARD NOTES FOR STREET AND DRAINAGE

1. COORDINATE WITH SPOKANE COUNTY AND DESIGN ENGINEER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS PRIOR TO BEGINNING CONSTRUCTION AND COORDINATE WITH THE GOVERNING REGULATORY AGENCIES REGARDING CONSTRUCTION AND INSPECTION REQUIREMENTS.
2. THE CONTRACTOR SHALL REVIEW ALL GEOTECHNICAL RECOMMENDATIONS AND INVESTIGATION REPORTS ASSOCIATED WITH THE SUBJECT DEVELOPMENT PRIOR TO STARTING CONSTRUCTION. ANY DISCREPANCIES BETWEEN DESIGN PLANS AND GEOTECHNICAL REPORT SHALL BE REPORTED TO THE DESIGN ENGINEER. CONSTRUCTION SHALL COMPLY WITH RECOMMENDATIONS OF THE GEOTECHNICAL REPORTS.
3. THE CONTRACTOR SHALL DEMOLISH AND REMOVE EXISTING STRUCTURES AND ASSOCIATED IMPROVEMENTS ON THE SUBJECT SITE PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL COORDINATE DEMOLITION ACTIVITIES WITH OWNER FOR FURTHER DIRECTION AND EXTENT OF WORK.
4. IRRIGATION SYSTEM FOR STORM WATER MANAGEMENT PONDS SHALL BE PROVIDED BY CONTRACTOR/DEVELOPER. IRRIGATION SYSTEM SHALL BE DESIGN/BUILD.
5. STORM DRAIN PIPES SHALL BE POLYETHYLENE (CPEP) SMOOTH WALL PIPE PER ADVANCED DRAINAGE SYSTEMS (ADS) N-12, PER WSDOT/APWA STANDARD SPECIFICATIONS. UNLESS OTHERWISE NOTED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL IN ACCORDANCE WITH M.U.T.C.D. AND SPOKANE COUNTY STANDARDS PRIOR TO DISRUPTION OF ANY TRAFFIC. NO WORK SHALL COMMENCE UNTIL ALL APPROVED TRAFFIC CONTROL IS IN PLACE AND THE APPROPRIATE AGENCY NOTIFICATION HAS TAKEN PLACE.
7. WHERE NEW ASPHALT JOINS EXISTING, THE EXISTING ASPHALT SHALL BE CUT TO A NEAT VERTICAL EDGE AND TACKED WITH ASPHALT EMULSION TYPE CSS-1 IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE JOINT SEALED WITH GRADE AR-4000W PAVING ASPHALT.
8. COORDINATE WITH THE GOVERNING REGULATORY AGENCY REGARDING CONSTRUCTION/INSTALLATION OF STREET NAME AND REGULATORY SIGNS.
9. MAINTAIN REQUIRED HORIZONTAL CLEARANCE BETWEEN WATER PIPE AND PIPE CARRYING NON-POTABLE WATER. AT CROSSINGS, THERE SHALL BE A MINIMUM VERTICAL CLEARANCE OF 18 INCHES BETWEEN WATER PIPE (ABOVE) AND PIPE CARRYING NON-POTABLE WATER (BELOW). INSTALLATIONS FOR UTILITIES OTHER THAN POTABLE WATER MAY BE INSTALLED AT A CLEARANCE LESS THAN THOSE STATED ABOVE IF THE NON-POTABLE LINE IS SLEEVED PER THE GOVERNING REGULATORY AGENCY SPECIFICATIONS. SEE CITY OF SPOKANE SPECIFICATIONS.
10. UNLESS ELEVATIONS AND/OR CONTOURS ARE OTHERWISE SHOWN, NEW FINISH GRADE SURFACES SHALL BE PLACED TO ALLOW FOR POSITIVE DRAINAGE TO CURB, GUTTER, OR OTHER RUNOFF COLLECTION DEVICES. MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDINGS.
11. IRRIGATION LINES AND CONTROLS SHOULD BE KEPT IN THE PRIVATE BORDER EASEMENTS AND OUT OF THE PUBLIC RIGHTS-OF-WAY, AS MUCH AS FEASABLE.

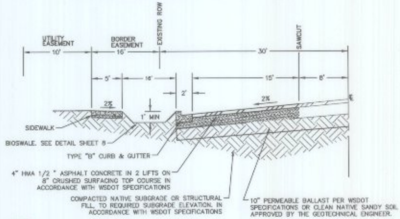
GENERAL NOTES



NOTE
ALL DEPTHS ARE COMPACTED DEPTHS.

GLENROSE RD. SECTION
STA 11+87 TO STA 13+25

NTS

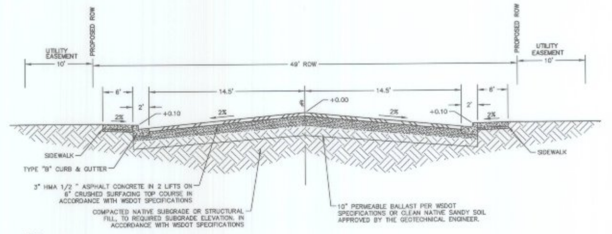


NOTE
ALL DEPTHS ARE COMPACTED DEPTHS.

GLENROSE RD. SECTION
STA 6+50 TO STA 11+87

NTS

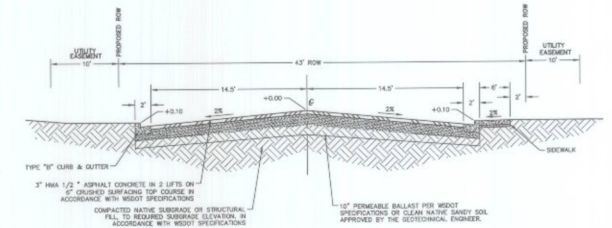
NOTE
CONSTRUCTION OF ROADWAYS SHALL CONFORM TO RECOMMENDATIONS IN GEOTECHNICAL REPORT BY BUDINGER & ASSOCIATES, DATED FEBRUARY 7, 2017; SPOKANE COUNTY GUIDELINES AND SPECIFICATIONS; AND WSDOT SPECIFICATIONS.



NOTE
ALL DEPTHS ARE COMPACTED DEPTHS.

41ST AVE. SECTION STA 32+00 TO STA 39+80

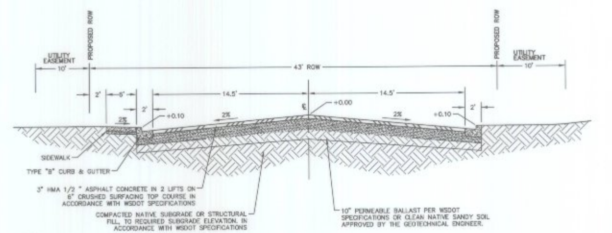
NTS



NOTE
ALL DEPTHS ARE COMPACTED DEPTHS.

STANDARD ROAD SECTION
WILLIAMSON COURT

NTS



NOTE
ALL DEPTHS ARE COMPACTED DEPTHS.

STANDARD ROAD SECTION
ROSEDALE COURT

NTS

LOCATES (2 WORKING DAYS NOTICE REQUIRED PRIOR TO EXCAVATION)
LOCAL CALLING NUMBERS
SPOKANE COUNTY 8-1-1

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.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-2036
DATE ACCEPTED: 06-28-17
ACCEPTANCE EXPIRES: 06-28-19
PROJECT LANE MILES PUBLIC: .78
PROJECT LANE MILES PRIVATE: Ø
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

14-234 - ST 9-11 DETAILS.dwg SH 9 ROAD SECTION

No.	DESC. / DATE	BY
5		
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storhäug
civil engineering | planning
landscape architecture | surveying
510 east third avenue | spokane, wa | 99202
p 509.242.1000 | f 509.242.1001

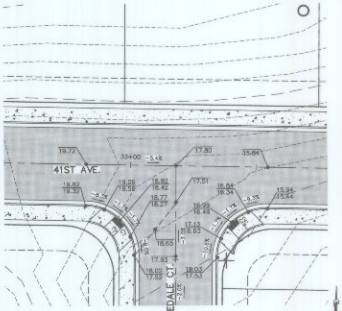
SHEET TITLE: ROAD SECTIONS

PROJECT TITLE: TRICKLE CREEK 3rd AND 4th ADDITION SPOKANE COUNTY, WASHINGTON

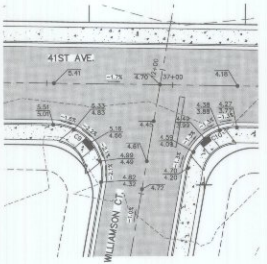
SEAL
MARK E. JOHNSON
STATE OF WASHINGTON
43185
REGISTERED PROFESSIONAL ENGINEER
6-22-17

DATE	06/19/2017
DRAWN	LMC
CHECKED	MEJ
PROJECT NUMBER	14-234
DRAWING NO.	9 OF 11
	DETAILS

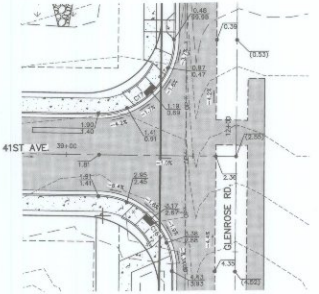
SEC. 35, T. 25 N., R. 43 E., WM



ROSEDALE & 41ST INT. DETAIL (A)
SCALE 1"=20'



WILLIAMSON & 41ST INT. DETAIL (B)
SCALE 1"=20'



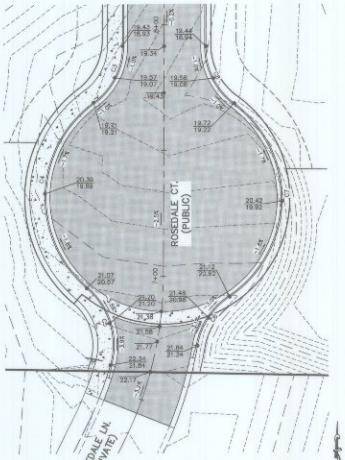
GLENROSE & 41ST INT. DETAIL (C)
SCALE 1"=20'

NOTE: TOP OF CURB ELEVATIONS ARE PROJECTED TOP OF CURB AT CURB RAMP LOCATIONS. ALL CURB RAMPS SHALL MEET ADA GUIDELINES AND SPOKANE COUNTY REQUIREMENTS.

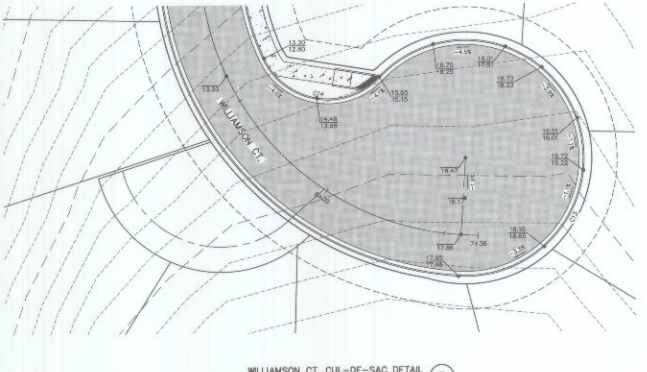
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 14-234
DATE ACCEPTED: 6-28-17
ACCEPTANCE EXPIRES: 6-28-19
PROJECT LANE MILES PUBLIC: .34
PROJECT LANE MILES PRIVATE: .12
CONSTRUCTION DOCUMENTATION MUST CONTAIN RECORD DRAWINGS. "AS-BUILT" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 5 BUSINESS DAYS PRIOR TO CONSTRUCTION

CURVE TABLE					
CURVE #	LENGTH	RADIUS	DELTA	CHORD DIRECTION	CHORD LENGTH
C1	30.40	19.50	89.31	N44° 02' 13"W	27.41
C2	30.86	19.50	90.69	S45° 57' 47"W	27.74
C3	26.20	28.00	53.61	N27° 25' 22"E	25.25
C4	84.86	47.00	103.45	S2° 33' 04"W	73.79
C5	33.68	29.50	65.41	N16° 31' 07"W	31.88
C6	23.89	29.50	46.40	S33° 33' 26"W	23.24
C7	89.95	47.00	109.66	N1° 50' 32"E	76.84
C8	26.20	28.00	53.61	S26° 11' 03"E	25.25
C9	33.66	19.50	98.90	N39° 14' 31"W	29.63
C10	27.60	19.50	81.10	S50° 45' 29"W	25.35
C13	188.72	47.00	230.06	N21° 15' 37"W	85.17
C14	54.47	28.00	111.46	S80° 33' 39"E	46.28
C16	48.17	29.50	89.67	N43° 51' 22"W	41.60
C17	46.51	29.50	90.33	N46° 08' 38"E	41.84

NOTE:
1. ALL DIMENSIONS AND ELEVATIONS ARE TO TOP BACK OF CURB UNLESS OTHERWISE NOTED.
2. ADD 3000 TO ALL SPOT ELEVATIONS.
3. CURB ELEVATIONS ARE PROJECTED TOP BACK OF CURB. CONSTRUCTED TOP BACK OF CURB SHALL MEET ADA REQUIREMENTS AND PER DETAILS.
4. STORM DRAIN LINES, WATER LINES, SEWER LINES AND OTHERS FEATURES ARE NOT SHOWN ON THIS PLAN SHEET FOR CLARITY OF SPOT ELEVATIONS. REFER TO STREET PLANS FOR FURTHER DETAILS.



ROSEDALE CUL-DE-SAC DETAIL (D)
SCALE 1"=20'



WILLIAMSON CT. CUL-DE-SAC DETAIL (E)
SCALE 1"=20'

LOCATES (2 WORKING DAYS NOTICE REQUIRED PRIOR TO EXCAVATION)
LOCAL CALLING NUMBERS
SPOKANE COUNTY
8-1-1

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.

No.	DESC. / DATE	BY
5		
4		
3		
2		
1		

storhaug
civil engineering | planning
landscape architecture | surveying
510 east third avenue | spokane, wa | 99202
p 509.242.1000 | f 509.242.1001

SHEET TITLE: INTERSECTION DETAILS

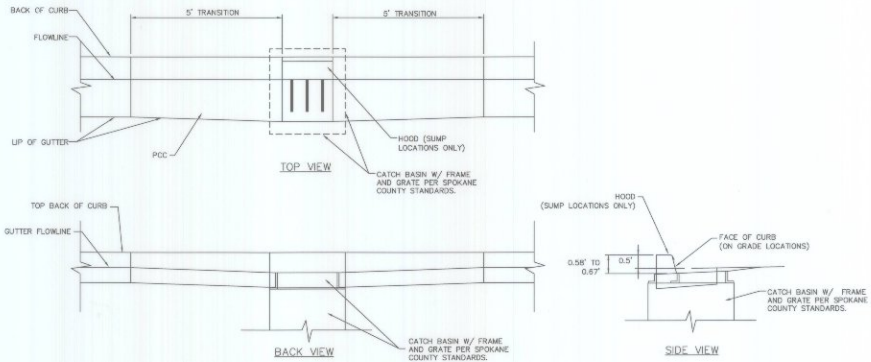
PROJECT TITLE: TRICKLE CREEK 3rd AND 4th ADDITION
SPOKANE COUNTY, WASHINGTON

SEAL: TYLER E. JOHNSON, STATE OF WASHINGTON, 43355, REGISTERED PROFESSIONAL ENGINEER, 6-28-17

DATE	06/19/2017
DRAWN	LMC
CHECKED	MEJ
PROJECT NUMBER	14-234
DRAWING NO.	10 OF 11
	DETAILS

14-234 - ST 8-11 DETAILS.dwg SH 10 INTERSECTIONS

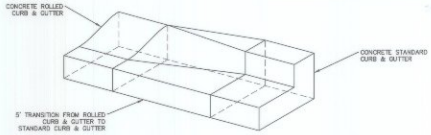
SEC. 35, T. 25 N., R. 43 E., WM



GRATE INLET TRANSITION DETAIL

NTS

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #:
DATE ACCEPTED:
ACCEPTANCE EXPIRES:
PROJECT LANE MILES PUBLIC:
PROJECT LANE MILES PRIVATE:
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, 'AS-BUILT' ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED: (509) 477-3600
NOTIFY PERMIT ENGINEER'S BUSINESS DAYS PRIOR TO CONSTRUCTION



TYPE "B" TO TYPE "R" CURB TRANSITION DETAIL

NTS

LOCATES (2 WORKING DAYS NOTICE REQUIRED PRIOR TO EXCAVATION)
LOCAL CALLING NUMBERS
SPOKANE COUNTY 8-1-1

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.

14-234 - 01 S-11 DETAILS.dwg SH 11 DETAILS

No.	DESC. / DATE	BY
5		
4		
3		
2		
1		

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SHEET TITLE: DETAILS

PROJECT TITLE: TRICKLE CREEK 3rd AND 4th ADDITION
SPOKANE COUNTY, WASHINGTON

SEAL

6-22-17

DATE	06/19/2017
DRAWN	LMC
CHECKED	MEJ
PROJECT NUMBER	14-234
DRAWING NO.	11 OF 11

DETAILS