NE¼, SEC.29, T.27N., R.43E., W.M.

STREET AND DRAINAGE PLANS

WINDSOR ESTATES

PHASE 4

NE 1/4, SEC. 29, T.27 N., R. 43 E., W.M.

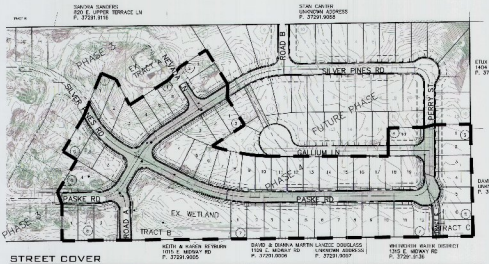
SPOKANE COUNTY, WA

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
TOLL FREE, NUMBER GOOD BEFORE YOU DIG

VICINITY MAP

LEGEND

EXISTING	DESCRIPTION	PROPOSED
	ROADWAY CENTER LINE	
	RIGHT OF WAY LINE	
	LOT LINE	
	EASEMENT LINE	
	FENCE	
	CURB	
	GUTTER	
	GRAVEL	
	CONCRETE	
	BUILDING & STRUCTURES	
	MONUMENT	
	SEWER	
	SANITARY SEWER	
	CLEANOUT	
	MANHOLE	
	SEWER SERVICE	
	WATER	
	WATER LINE	
	VALVE	
	FIRE HYDRANT	
	WELL	
	WATER METER	
	SLURRY	
	AIR VACUUM RELIEF STATION	
	DRAINAGE	
	DRAINAGE LINE	
	MANHOLE	
	CATCH	
	CATCH BASIN	
	DITCH	
	GAS	
	GAS LINE	
	VALVE	
	METER	
	TELE-POWER	
	BURIED TELEPHONE	
	POWER OR TELEPHONE POLE	
	GUY WIRE	
	TRANSFORMER PAD	
	TELEPHONE RISER	
	TELEPHONE VAULT	
	OVERHEAD POWER	
	GUY ANCHOR	
	POWER VAULT	
	LIGHT POLE	



STREET COVER

SCALE: 1"=100'

GRAPHIC SCALE

100 0 50 100 200

(IN FEET)
1 INCH = 100 FT.

N
W E
S

SHEET INDEX

C0.0	COVER SHEET
C0.1	GENERAL NOTES
C0.2	TYPICAL CROSS SECTIONS & NOTES
C3.0	SILVER PINES RD TO PASKE RD P & P
C3.1	PASKE /SILVER PINES RD & NEVADA LN P&P
C3.2	TRACT B/ST & ROAD A P&P
C3.3	STREET DETAILS
C4.0	GRADING PLAN
C5.0	TRACT A & TRACT B STORM PIPE PLAN AND PROFILE
C5.1	TRACT C & TRACT D STORM PIPE PLAN AND PROFILE
C5.2	STORM POND DETAILS
C9.0	SWPPP/EROSION CONTROL COVER SHEET
C9.1	SWPPP NOTES

ABBREVIATIONS

ACP	ASPHALT CONCRETE PIPE	DI	DROP INLET	PRC	POINT OF REVERSE CURVE		
BVC	BEGINNING OF CURVE PARABOLA	FL,FC	FLOW LINE, FLOW CURVE	PT	POINT OF TANGENCY		
BOPC	BOUNDARY	HYD	HYDRANT	RIM E	RIM ELEVATION		
CB	CATCH BASIN, CONCRETE	INV	INVERT ELEVATION	SD	STORM DRAIN		
CONC	CONCRETE	LP	LIGHT POLE	SS	SEWER		
CY	CUBIC YARD	MH	MANHOLE	SSMH	SANITARY SEWER MANHOLE		
EC	CURB	MP	MONUMENT	SSCO	SANITARY SEWER CLEANOUT		
EVC	END OF CURVE PARABOLA	PCC	POINT OF COMPOUND CURVATURE	TYP	TYPICAL		
EXIST	EXISTING	PI	PERMALOCK	TC	TOP OF CURB		
V	GRADE	PIC	POINT OF INTERSECTION	TS	TOP OF STEPS		

SEWER
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ENVIRONMENTAL SERVICES
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FAX: 509-467-1830
CONTACT: DOUG BAGIN

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FIRE DISTRICT NO. 1
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MEAD, WASHINGTON 99021
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SPOKANE REGIONAL HEALTH
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AVISTA UTILITIES
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TELEPHONE
CENTURY LINK
1600 WEST COLUMBIA
SPOKANE, WA 99223
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FAX: 509-455-2104
CONTACT: TIM GREENWOOD

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PHONE: 509-328-1224
FAX: 509-328-3191
CONTACT: PAT J. MOORE, P.L.S.

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HANCOCK DEVELOPMENT
1115 E. MIDWAY
GREENACRES, WA 99016
PHONE: 509-535-4976
CONTACT: TRAVIS PARKE

CABLE
COMCAST BROADBAND
1717 EAST BLOOMEY
SPOKANE, WA 99207
PHONE: 509-755-4717
FAX: 509-755-4802
CONTACT: JEFFREY BRO-HODSON

SOLID WASTE
WASTE MANAGEMENT
SPOKANE, WASHINGTON
PHONE: 509-466-2400

SURVEY-CONST.
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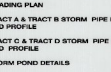
INSPECTION
T.B.D.
P.O. BOX 1066
VENDALIA, WA 99037
PHONE: 209-9362
CONTACT: PAUL T. NELSON, P.E.

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC IMPROVEMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 2-2-2-2
DATE ACCEPTED 03-26-18
ACCEPTANCE EXPIRES 03-26-20
PROJECTS LAND WITHIN PUBLIC RIGHT-OF-WAY EXPIRES 03-26-22
CONSTRUCTION INSPECTION AND CERTIFIED RECORD DRAWINGS REQUIRED AS REQUIRED PRIOR TO FINAL ACCEPTANCE. ALL CHANGES TO THE PLANS AND DRAWINGS REQUIRED CONSULTING ENGINEER'S APPROVAL.
COPY FINAL CONSULT & RECORD SETS PRIOR TO CONSTRUCTION



NAVD - 88 DATUM
VERTICAL EXTRAPOLATION BY ELEVATION TRIANGULATION
LOCATED IT SECTION, LOCATION 34 MILES NORTH OF I-90
CONC. MONUMENT IN CASE W/ 2" BRASS CAP STAMPED "LS 18451"

SCALE:	PROJ #: 17-1762	K:
HORIZONTAL: 1" = 100'	DATE: 05/01/18	DRAWN:
VERTICAL: N/A	DRAWN: CTR	CHECKED:
	REVIEWED: TRW	APPROVED:

WCE
WHITLEY CONSULTING ENGINEERS
21 S. PINES ROAD
SPOKANE VALLEY, WA 99206
PH 509-926-0227 FAX 509-926-0228

WINDSOR ESTATES EAST
COVER SHEET
HATCH ROAD
SPOKANE COUNTY, WASHINGTON

SHEET
C0.0

JOB NUMBER
17-1762

NE¼, SEC.29, T.27N., R.43E., W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

WCE GENERAL NOTES

1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED SITE WORK STANDARDS AND THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE *SPOKANE COUNTY* REGULATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN PUBLIC R.O.W. OR EASEMENTS SHALL BE INSPECTED AND APPROVED BY THE *SPOKANE COUNTY* INSPECTOR. INSPECTION SERVICES AND CONSTRUCTION CERTIFICATION TO BE PROVIDED BY DESIGNEE OF PROJECT SPONSOR/OWNER.

2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT THE CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE *SPOKANE COUNTY* INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.

4. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE *SPOKANE COUNTY* AND ALL UTILITY COMPANIES WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION, TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION, AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.

5. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND ONE (1) COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB ON-SITE AT ALL TIMES.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO: EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.

7. IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.

8. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.

9. FOR WORK AFFECTING PUBLIC ROADWAYS OR IF REQUIRED BY THE *SPOKANE COUNTY*, THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL AND PHASING PLAN IN ACCORDANCE WITH M.U.T.C.D. FOR APPROVAL, PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN OR AFFECTING THE RIGHT-OF-WAY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY SAID PLANS. PRIOR TO INSTALLATION.
A PRECONSTRUCTION CONFERENCE SHALL BE HELD WITH THE *SPOKANE COUNTY*.

10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED, CONSTRUCTED, REMOVED OR RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE.

11. PER AGENCY STANDARDS THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING RECORD INFORMATION ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE AND AVAILABLE TO THE *SPOKANE COUNTY* INSPECTOR AT ALL TIMES.

13. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. FOR ADDITIONAL INFORMATION CONTACT THE ENGINEER FOR CLARIFICATION AND NOTE ON THE RECORD DRAWINGS.

14. ALL EROSION AND SEDIMENT CONTROL (E.S.C.) MEASURES SHALL BE INSTALLED AT THE LIMITS OF CONSTRUCTION PRIOR TO GROUND DISTURBING ACTIVITY. ALL E.S.C. MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.

15. THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF WATER LINES AND DRY UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL UTILITY RELOCATIONS CONSISTENT WITH THE CONTRACTORS SCHEDULE FOR THIS PROJECT, WHETHER SHOWN OR NOT SHOWN, AS IT RELATES TO THE CONSTRUCTION ACTIVITIES CONTEMPLATED IN THESE PLANS.

16. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF THE *SPOKANE COUNTY* ENGINEERING DEPARTMENT STANDARD DETAILS AND SPECIFICATIONS.

17. ALL CONSTRUCTION OPERATIONS, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTH MOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED EQUIPMENT SHALL GENERALLY BE LIMITED TO THE TIME PERIOD APPROVED BY THE *SPOKANE COUNTY*.

BASED ON REQUIREMENTS FROM *SPOKANE COUNTY*, THE ENGINEER OR HIS DESIGNEE SHALL PERFORM MATERIALS TESTING AND QUALITY CONTROL ON THE PROJECT AND SHALL SUBMIT COPIES OF DAILY REPORTS, TEST REPORTS, PROJECT CERTIFICATION AND RECORD DRAWINGS TO *SPOKANE COUNTY* ENGINEER.

18. NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT APPROVAL OF THE *SPOKANE COUNTY* ENGINEERS AND NOTIFICATION OF THE ENGINEER OF RECORD.

19. ON-SITE GRADING SHALL BE IN ACCORDANCE WITH THE APPROVED GRADING PLAN AND E.S.C. PLAN. ANY IMPORT OR EXPORT OF MATERIAL SHALL BE FROM A PREAPPROVED SOURCE/DESTINATION AND COORDINATED WITH THE CITY/COUNTY *SPOKANE COUNTY* DEPARTMENT OF BUILDING AND PLANNING AT ***COUNTY 509-477-3675***. GRADING ON THIS SITE OR ANY OTHER SITE MUST COMPLY WITH ALL DEVELOPMENT REGULATIONS INCLUDING, BUT NOT LIMITED TO , GRADING PERMITS, S.E.P.A. REVIEW, TIMBER HARVEST PERMITS, CRITICAL AREAS, FLOOD PLAINS, DESIGNATED DRAINAGE WAYS, ETC.

20. THE CONTRACTOR IS CAUTIONED THAT IT IS THE UNDERSTANDING OF THE OWNER AND THE ENGINEER THAT SHOULD A CONFLICT OR DISCREPANCY IN THESE PLANS, SPECIFICATIONS, GENERAL NOTES OR PLANS ET.AL. DETERMINED TO BE PART OF THE OVERALL PROJECT, INCLUDING BUT NOT LIMITED TO THE ARCHITECTURAL PLANS, MECHANICAL PLANS, ELECTRICAL PLANS, LANDSCAPE PLANS, GENERAL SPECIAL PROVISIONS, ETC., THAT WITHOUT WRITTEN CLARIFICATION FROM THE ENGINEER, OWNER OR OTHER PROFESSIONAL, DURING THE BIDDING PROCESS, THAT IN ALL INSTANCES THE CONTRACTOR WILL BE REQUIRED TO BID THE HIGHER STANDARD. FAILURE TO DO SO MAY RESULT IN THE HIGHER STANDARD BEING REQUIRED BY THE OWNER, ENGINEER OR OTHER PROFESSIONAL WITH NO CHANGE IN VALUE TO THE CONTRACT VIA CHANGE ORDER OR OTHER MECHANISM.

21. CONSTRUCTION OF EVERY DRYWELL, INCLUDING FABRIC AND DRAINROCK, SHALL BE OBSERVED BY THE ON-SITE INSPECTOR TO CONFIRM THAT IT MEETS THE DESIGN DETAILS AND SPECIFICATIONS. DRYWELLS NOT OBSERVED SHALL HAVE THEIR PERFORMANCE VERIFIED BY A FULL-SCALE DRYWELL TEST.

22. CONSTRUCTION OF EVERY DRYWELL, INCLUDING FABRIC AND DRAINROCK, SHALL BE OBSERVED BY THE ON-SITE INSPECTOR TO CONFIRM THAT IT MEETS THE DESIGN DETAILS AND SPECIFICATIONS. DRYWELLS NOT OBSERVED SHALL HAVE THEIR PERFORMANCE VERIFIED BY A FULL-SCALE DRYWELL TEST.

23. DURING CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE TO COORDINATE ANY AND ALL INCONSISTENCIES BETWEEN THESE PLANS AND CONSTRUCTION STAKING. CONTRACTOR ASSUMES RESPONSIBILITY TO CONSTRUCT TO THESE PLANS IN LIEU OF FIELD STAKING. SHOULD INCONSISTENCIES BE APPARENT THE CONTRACTOR SHALL CONTACT THE ENGINEER, OWNER, AND SURVEYOR TO RECTIFY THE DISCREPANCY PRIOR TO CONSTRUCTION EFFORT BEING APPLIED.

24. FAIR HOUSING ACT – SAFE HARBORS FOR COMPLIANCE

WHIPPLE CONSULTING ENGINEERS, INC. FOR THE PROJECT CONTAINED WITHIN THESE PLANS HAS USED THE FOLLOWING SAFE HARBOR FOR ADA ACCESSIBILITY FOR THOSE ISSUES CONSIDERED SITE DEVELOPMENT ISSUES.

ICC/ANSI A117.1 (2003), ALONG WITH THE FAIR HOUSING ACT, HUD'S FAIR HOUSING ACT REGULATIONS, AND GUIDELINES.

25. ALL FIRE LINES MUST BE INSTALLED BY AN APPROVED LEVEL 'U' CONTRACTOR OR A LEVEL 3 FIRE PROTECTION CONTRACTOR.

NAVD - 88 DATUM

VERTICAL DATUM BASED ON FOUND TEMPORARY BENCH MARK LOCATED AT (GENERAL LOCATION) 3.4 MILES NORTH OF THE JUNCTION OF SR 396 AND SR 002 TBM – WSDOT BRASS DISK IN CONC. #GP32306 202 & 323.24 M-NAVD88 (CALCULATED 1716.87 FT)

WCE GRADING NOTES

1. CONTOURS AND / OR ELEVATIONS SHOWN ARE FOR FINISHED PAVING, SIDEWALK, SLAB, OR GROUND. ADJUSTMENT TO SUBGRADE IS THE CONTRACTOR'S RESPONSIBILITY.

2. ALL DISTURBED AREAS THAT ARE SUBSURFACE OR ARE NOT DESIGNATED AS LANDSCAPE AREAS ARE TO BE SEEDED, FERTILIZED, AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.

3. IF DURING THE OVERLOT GRADING PROCESS, CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE AN UNIDENTIFIED SITUATION IS PRESENT, THE SOILS ENGINEER SHALL BE CONTACTED FOR RECOMMENDATIONS.

4. UNLESS OTHERWISE SHOWN, NO PROPOSED SLOPE SHALL EXCEED THREE (3) HORIZONTAL TO ONE (1) VERTICAL. ALL SLOPED AREAS MUST BE PROTECTED FROM EROSION.

5. IF STRIPPED MATERIALS CONSISTING OF VEGETATION AND ORGANIC MATERIALS ARE STOCKPILED ON THE SITE, TOPSOIL MAY BE PLACED TO A HEIGHT OF FIVE FEET. SILT FENCE SHALL BE PLACED AROUND THE BASE OF THE STOCKPILE AND THE STOCKPILE SHALL BE SEEDED WITH NATIVE SEED MIX IMMEDIATELY AFTER STRIPPING OPERATIONS ARE COMPLETE.

6. SPOT ELEVATIONS SHALL TAKE PRECEDENCE OVER CONTOURS AND SLOPES SHOWN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SPOT ELEVATIONS THAT DO NOT APPEAR TO BE CONSISTENT WITH THE CONTOURS AND SLOPES. SPOT ELEVATIONS AND SPECIFIC PROFILE DESIGN SHALL BE USED FOR SETTING ELEVATIONS OF CURB, GUTTER, AND UTILITIES.

7. BENCHMARK VERIFICATION: CONTRACTOR SHALL USE BENCHMARKS AND DATUMS SHOWN HEREON TO SET PROJECT BENCH MARK'S, BY RUNNING A LEVEL LOOP BETWEEN AT LEAST TWO BENCHMARKS, AND SHALL PROVIDE SURVEY NOTES OF SUCH TO PROJECT ENGINEER PRIOR TO COMMENCING CONSTRUCTION.

8. ALL UTILITIES (MANHOLES, VALVE COVERS, CLEANOUTS, VAULTS, BOXES, ETC.) SHALL BE ADJUSTED TO FINAL GRADE PRIOR TO THE FINAL LIFT OF ASPHALT.

9. GRADES WITHIN ASPHALT PARKING AREAS SHALL BE CONSTRUCTED TO WITHIN 0.10 FEET OF THE DESIGN GRADE. HOWEVER, THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN ALL PAVEMENT AREAS AND ALONG ALL CURBS. ALL CURBS SHALL BE BUILT IN ACCORDANCE TO THE PLAN. CURBS OR PAVEMENT AREAS WHICH DO NOT PROVIDE PROPER DRAINAGE MUST BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

10. SPOT ELEVATIONS REPRESENT FLOW LINE OR TOP OF ASPHALT UNLESS OTHERWISE NOTED.

11. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING HIS OWN ESTIMATE OF EARTHWORK QUANTITIES.

12. WHERE NEW CURB AND GUTTER IS BEING CONSTRUCTED ADJACENT TO EXISTING ASPHALT OR CONCRETE PAVEMENT, THE FOLLOWING SHALL APPLY: PRIOR TO PLACMENT OF ANY CONCRETE THE CONTRACTOR SHALL HAVE A LICENSED SURVEYOR VERIFY THE GRADE AND CROSS SLOPE OF THE CURB AND GUTTER FORMS. THE CONTRACTOR SHALL SUBMIT THE SLOPES AND GRADES TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF CONCRETE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY SECTION WHICH DOES NOT CONFORM TO THE DESIGN OR TYPICAL CROSS SECTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CURB AND GUTTER POURS WITHOUT THE APPROVAL OF THE ENGINEER.

13. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL BUILDING PLANS AND SPECIFICATIONS.

14. PRE CAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.

15. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.

16. EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.

17. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.

18. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.

19. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.

20. TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY PROVIDED BY THE OWNER . IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.

21. ALL SUBSURFACE AREA DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. (CONTRACTOR SHALL PLACE SOD OR HYDROSEED DISTURBED AREAS IN ACCORDANCE WITH CITY/COUNTY SPECIFICATIONS AND MAINTAINED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.) HYDROSEED WITH TACKIFIER OVER A CORDUROY SLOPE MAY BE ACCEPTABLE, THE SITE GEOTECHNICAL ENGINEER MUST BE CONSULTED.

22. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND SITE SHALL BE CONSTRUCTED TO SAME.

23. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.

24. 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 APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

25. ENGINEER SHALL BE NOTIFIED WHEN 'CURBING STRING LINE' HAS BEEN SET, PRIOR TO CURBING BEING INSTALLED.

26. ALL DRYWELLS TO BE INSTALLED TO HAVE (1') ONE OF VERTICAL ADJUSTMENT.

27. ENGINEERING OR THE OWNER'S INSPECTION REPRESENTATIVE SHALL BE ON SITE, AND SHALL COLLECT TRUCK TICKETS FOR DRYWELL ROCK, AND SOIL.

28. ALL PIPE SHALL BE INSTALLED WITH EITHER A SAND COLLAR, KOR-N-SEAL OR APPROVED EQUIVALENT.

WCE STORM DRAINAGE NOTES

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

2. SWALE/PONDS SHALL BE CONSTRUCTED PER THE REQUIREMENTS OF THESE DRAWINGS INCLUDING GRADING, SOD, AND DRYWELL INSTALLATION. ALL SWALES/PONDS WITH IN TRACTS SHALL INCLUDE AN IRRIGATION SYSTEM, ALL IRRIGATION SHALL CONFORM TO CITY OF SPOKANE SWALE/POND IRRIGATION SYSTEM GUIDELINES.

3. ALL SWALES/PONDS SHOWN SHALL BE ROUGH GRADED PRIOR TO PAVING OF ADJACENT ROADWAY.

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

5. INSTALL "AMOCO" #4545 FILTER FABRIC (OR APPROVED EQUAL) BETWEEN THE NATIVE SOIL AND WASHED DRAIN ROCK, FOR ALL DRYWELLS. SEE CITY OF SPOKANE STANDARD PLAN H-102C FOR INSTALLATION LOCATIONS.

6. ALL SWALES/PONDS WITHIN THE RIGHT-OF-WAY, IN THE AREA ASSOCIATED WITH THIS PROJECT, SHALL BE COMPLETED DURING THE CONSTRUCTION OF THE ROADWAY. THE CONTRACTOR SHALL PERFORM THE SWALE/POND GRADE WORK, INSTALL THE IRRIGATION SYSTEM, AND PLACE THE SOD WITHIN THE SWALES/PONDS FOLLOWING THE ROAD PAVING WORK.

7. THE CONTRACTOR SHALL MAKE AN EFFORT TO PROTECT ALL DRAINAGE STRUCTURES FROM BEING CONTAMINATED WITH SILT BY INSTALLING FILTER FABRIC UNDER THE LID FOR AT LEAST 6 WEEKS, OR UNTIL THE ESTABLISHMENT OF GRASS AND/OR OTHER SITE CONSTRUCTION WORK HAS ENDED. IN THE EVENT THAT SILT OR OTHER DELETERIOUS MATERIAL IS ALLOWED TO ENTER THE DRYWELL OR CATCH BASIN THE CONTRACTOR WILL BE REQUIRED TO CLEAN THE DRYWELL OR CATCH BASIN OUT TO THE SATISFACTION OF THE CERTIFYING ENGINEER.

8. ALL LANDSCAPE AREAS (INCLUDING SWALES/PONDS) ARE TO BE IRRIGATED BY AN AUTOMATIC IRRIGATION SYSTEM SHALL BE INSTALLED BY OR UNDER THE DIRECTION OF THE LANDSCAPE CONTRACTOR. THE IRRIGATION SYSTEM SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES (90 DAY GUARANTEE). AN APPROVED BACKFLOW DEVICE SHALL BE INSTALLED TO PREVENT WATER FOR GOING BACK INTO THE WATER SUPPLY.

9. THE FLOOR OF ALL GRASSED PERCOLATION AREAS (GPA) (SWALES/PONDS) INCLUDES THE LEVEL PORTION OF THE FLOOR OF THE SWALES, AND THE SIDE SLOPES OF THE SWALE UP TO THE GPA OVERFLOW ELEVATION OR TOP OF DRYWELL. THE SOIL LOCATED IN THE FLOOR OF THE THE GPA SWALE SHALL BE A MEDIUM TO WELL DRAINING MATERIAL, WITH A MINIMUM INFILTRATION RATE OF 0.5 INCHES PER HOUR. THE ENGINEER SHALL PROVIDE A WRITTEN STATEMENT WHICH VERIFIES THAT ALL GPA SWALES CONFORM TO THIS REQUIREMENT. THIS WRITTEN STATEMENT SHALL BE SUBMITTED TO THE SPOKANE COUNTY ENGINEER'S OFFICE PRIOR TO INSTALLING FINISHED LANDSCPING/SOD AND PRIOR TO FINAL ACCEPTANCE. THE SWALE FLOOR MATERIAL SHALL BE INSTALLED TO A NATIVE SOIL STRATUM WHICH ALSO MEETS OR EXCEEDS THIS MINIMUM PERCOLATION RATE OF 0.5 INCHES PER HOUR, OR AS APPROVED BY SITE GEOTECHNICAL ENGINEER.

10. WHEN TWO OR MORE CURB INLETS ARE USED, SET POND BOTTOM WITH RESPECT TO THE LOWEST CURB INLET GUTTER FLOWLINE ELEVATION.

11. THE TOP 12" OF SOIL FOR ALL SWALE/POND BOTTOMS SHALL CONSIST OF THOROUGHLY BLENDED MIX OF 50% COMPOST WITH 50% NATIVE SOILS, OR AS APPROVED BY SITE GEOTECHNICAL ENGINEER.

12. PER THE S.R.S.M. ALL SWALES/PONDS SHALL HAVE 12" OF TREATMENT SOIL WITH AN INFILTRATION RATE OF 0.5 INCHES/HOUR AND AVERAGE CATION EXCHANGE CAPACITY OF AT LEAST 15 MILLIQUIVELENTS/100 GRAMS OR AT LEAST 2% OF ORGANIC MATER BY WEIGHT. SEE TABLE 6-1, PG. 6-16 OF THE SPOKANE REGIONAL STORMWATER MANUAL, OR AS APPROVED BY SITE GEOTECHNICAL ENGINEER.

13. WARNING: THE USE OF SILTY LOAM IS PROHIBITED AS SWALE/PONDS BOTTOM MATERIAL.

14. ALL DRYWELLS TO HAVE 1' ONE VERTICAL FOOT OF ADJUSTMENT

15. THE ENGINEER SHALL BE ON SITE, AND SHALL COLLECT TRUCK TICKETS FOR THE DRYWELL ROCK AND SOIL.

SLEEVING: PROVIDE SLEEVING AS REQUIRED UNDER SIDEWALKS, PATHS, CURBING, PAVING, ETC. AS NEEDED FOR IRRIGATION ACCESS. ALL SLEEVING TO BE 4" PVC WITH AT LEAST 12" OF COVER (1) FOOT BELOW FINISH GRADE. THE OWNER/GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING SLEEVING BEFORE CURBING, SIDEWALKS, PAVING, ETC. IS INSTALLED. PATCH ASPHALT AS NEEDED.

LAWN AREAS: LAWN AREAS ARE TO BE IRRIGATED WITH TORO POP-UP HEADS OR EQUIVALENT. (TEST SYSTEM BEFORE BACKFILLING).

ADJUSTMENT: AFTER INSTALLATION, ADJUST VALVES, HEADS, EMITTERS, ETC. TO PROVIDE UNIFORM COVERAGE AND TO MINIMIZE OVER SPRAY ON WALLS, FENCES, WALKS, DRIVES, ETC.

WATER POWER SUPPLY: THE OWNER/GENERAL CONTRACTOR IS TO SUPPLY WATER TAPS FOR HOOK-UP AND SUPPLY POWER FOR CONTROLLER.

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-2058
DATE ACCEPTED: 05-22-18
ACCEPTANCE EXPIRES: 05-22-20
PROJECTS LANE MILES: PUBLIC: .80
PROJECT LANE MILES PRIVATE: .02
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

SCALE:			
HORIZONTAL: N/A	PROJ #: 17-1762	X CIVIL	
	DATE: 05/21/18	STRUCTURAL	
VERTICAL: N/A	DRAWN: CTR	SURVEYING	
	REVIEWED: TRW	TRAFFIC / PLANNING / LANDSCAPE / OTHER	

WCE
WHIPPLE CONSULTING ENGINEERS
21 S. PINES RD
SPOKANE VALLEY, WA 99206

WINDSOR ESTATES EAST
GENERAL NOTES
HATCH ROAD
SPOKANE COUNTY, WASHINGTON

SHEET C0.1
JOB NUMBER 17-1762

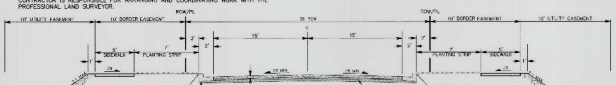
NE¼, SEC.29, T.27N., R.43E., W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
TWO WORKING DAYS
BEFORE YOU DIG

SPOKANE COUNTY STREET NOTES

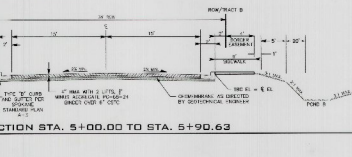
THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT TO CONSTRUCT AND INSTALL TO PROPER WORKING ORDER, ALL IMPROVEMENTS AS DETAILED OR CALLED OUT ON THESE PLANS.

1. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION, CURRENT EDITION", AND AS AMENDED.
2. THE CONTRACTOR IS REQUIRED TO HAVE A VALID CONSTRUCTION PERMIT ON SITE AT ALL TIMES. THE ABSENCE OF THE PERMIT WILL RESULT IN AN IMMEDIATE SHUTDOWN OF WORK AND THE POSSIBLE REMOVAL OF THOSE ITEMS CONSTRUCTED WITHOUT THE PERMIT.
3. LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.
4. THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE APPROVED ROAD AND DRAINAGE PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
5. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER, TODD R. WHIPPLE, P.E., @ 893-2817, THE SITE/PROJECT INSPECTING ENGINEER OR HIS REPRESENTATIVE, IPEC, PAUL T. NELSON, P.E., @ 509-290-5178 AND THE SPOKANE COUNTY ENGINEER'S OFFICE, CONSTRUCTION ENGINEER, @ 477-7600.
6. FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC, "AMOCO" 4545 OR APPROVED EQUAL, BETWEEN THE DRYWELL BARREL AND THE WASHED DRAINROCK AND BETWEEN THE WASHED DRAINROCK AND NATIVE SOILS PER SPOKANE COUNTY STANDARD DETAIL 8-14.
7. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000 BEFORE YOU DIG.
8. THE CONTRACTOR SHALL MAKE AN EFFORT TO PROTECT ALL CATCH BASINS AND DRYWELLS FROM BEING CONTAMINATED WITH SILT BY INSTALLING FILTER FABRIC UNDER THE LID FOR AT LEAST 8 WEEKS, OR UNTIL THE ESTABLISHMENT OF GRASS AND/OR OTHER SITE CONSTRUCTION WORK HAS ENDED.
9. IN THE EVENT THAT SILT OR OTHER DELETERIOUS MATERIAL IS ALLOWED TO ENTER THE DRYWELLS OR CATCH BASINS, THE CONTRACTOR WILL BE REQUIRED TO CLEAN OUT THE DRYWELL OR CATCH BASIN TO THE SATISFACTION OF THE CERTIFYING ENGINEER.
10. THE CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR TO VERIFY THAT THE CROSS-CUTTER FORMS ARE THE CORRECT PLANE GRADE PRIOR TO CONCRETE PLACEMENT. THE CROSS-CUTTERS SHALL BE CONSTRUCTED PRIOR TO PAVING, AND THE PAVEMENT SHALL THEN MATCH THE EDGE OF CONCRETE GUTTER.
11. ALL DRYWELL CONNECTION PIPES SHALL BE PLACED BELOW THE DRYWELL CONE AND SHALL FLOW AS DIRECTED IN THE PLANS.
12. FOR ANY CURB GRADES LESS THAN 0.8 % (0.008 FT./FT.), A WASHINGTON STATE LICENSED PROFESSIONAL LAND SURVEYOR SHALL VERIFY THAT THE CURB FORMS ARE AT THE GRADES NOTED ON THE APPROVED PLANS, PRIOR TO PLACEMENT OF CURB MATERIAL. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING AND COORDINATING WORK WITH THE PROFESSIONAL LAND SURVEYOR.

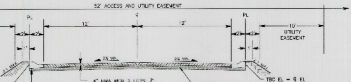


TYPICAL SECTION SILVER PINE RD, PASKE RD, & PERRY ST
NOT TO SCALE
1

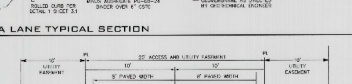
ROAD A TYPICAL SECTION, STA. 5+90.00 TO 6+10.62
NOT TO SCALE
2



ROAD A TYPICAL SECTION STA. 5+00.00 TO STA. 5+90.63
NOT TO SCALE
3



NEVADA LANE TYPICAL SECTION
NOT TO SCALE
4



TRACT E TYPICAL SECTION
NOT TO SCALE
5

GALLIUM LN TYPICAL SECTION (FUTURE PHASE)
NOT TO SCALE
6

NAVD - 88 DATUM
VERTICAL DATUM PROVIDED BY TEMPORARY BENCH MARK LOCATED IN TEMPORARY LOCK FOR 2 3 MILES NORTH OF THE JUNCTION OF SR 395 AND HAWK ROAD = SPOKE 2 AMPS USGS - PID DL0290 ELEV 2,202.09 IN METERS (ELEV 2,489 ASTMT ?)

SCALE:	PROJ #: 17-1762	KEY:
HORIZONTAL: N/A	DATE: 05/21/18	STRATIGRAPHY
	DRAWN: CTR	SURVEYING
VERTICAL: N/A	REVIEWED: TRW	PAVING
		NATURAL GAS
		ANALYSIS
		TREE

WCE
WHIPPLE CONSULTANTS INC.
CIVIL ENGINEERING
PROJECT MANAGEMENT
1115 SOUTH 291 TRENT
SPOKANE, WASHINGTON 99202

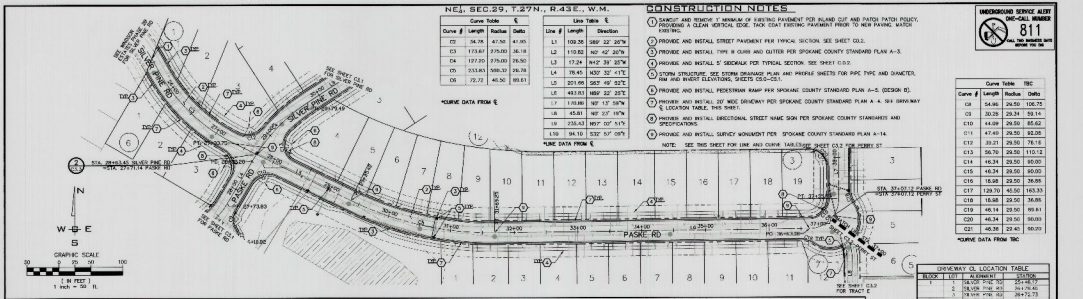
WINDSOR ESTATES EAST
TYP. CROSS-SECTIONS & NOTES
HATCH ROAD
SPOKANE COUNTY, WASHINGTON

SHEET
C0.2

JOB NO.
17-1762

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
TWO WORKING DAYS
BEFORE YOU DIG

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-2018
DATE ACCEPTED: 03-20-19
PROJECT LAND DISTURBANCE: 2.5
PROJECT LAND MISS: 2.5
PROJECT LANE MILES PRIVATE: .22
CONSTRUCTION COMPLETION AND CERTIFIED AS-BUILTS ARE REQUIRED. THE ACCEPTANCE OF THIS DOCUMENT DOES NOT ALTER THE REQUIREMENTS OF THE SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION, CURRENT EDITION.
NOTIFY PUBLIC WORKS 2 BUSINESS DAYS PRIOR TO CONSTRUCTION



Curve Table				
Curve #	Length	Radius	Delta
C2	34.74	47.50	41.95
C3	173.67	275.00	36.18
C4	177.20	275.00	36.90
C5	233.83	595.32	26.78
D6	72.72	45.50	91.61

*CURVE DATA FROM ¢

Line Table ¢		
Line #	Length	Direction
L1	100.26	S89° 32' 20"E
L2	110.82	N0° 42' 20"W
L3	17.24	N42° 39' 22"W
L4	76.45	N32° 32' 41"E
L5	201.64	S62° 42' 52"E
L6	483.81	N89° 22' 25"E
L7	110.86	N0° 17' 58"W
L8	45.81	N0° 37' 00"W
L9	235.43	N57° 07' 51"E
L10	94.10	S32° 57' 09"E

*LINE DATA FROM ¢

CONSTRUCTION NOTES

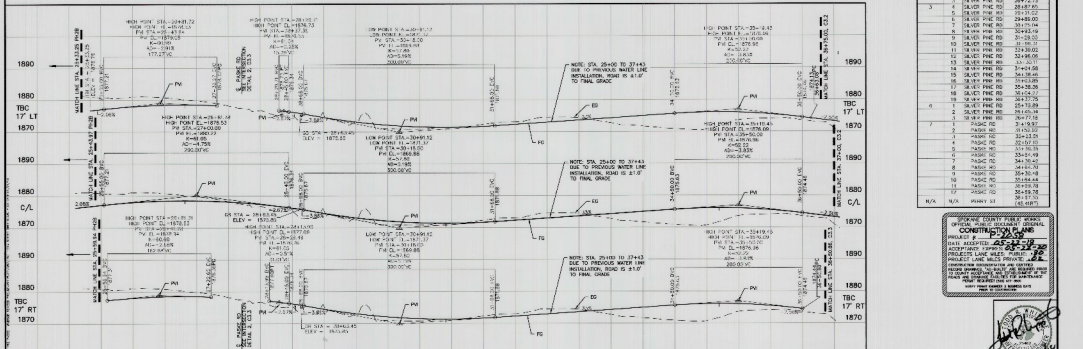
1. SAWCUT AND REMOVE 1' MINIMUM OF EXISTING PAVEMENT FOR INLAND CUT AND PATCH PATCH POLICY, PROVIDING A CLEAN VERTICAL EDGE. TACK COAT EXISTING PAVEMENT PRIOR TO NEW PAVING. MATCH EXISTING.
2. PROVIDE AND INSTALL STREET PAVEMENT PER TYPICAL SECTION. SEE SHEET C0.2.
3. PROVIDE AND INSTALL TYPE II CURB AND GUTTER PER SPOKANE COUNTY STANDARD PLAN A-3.
4. PROVIDE AND INSTALL 5' SIDEWALK PER TYPICAL SECTION. SEE SHEET C0.2.
5. STORM STRUCTURE. SEE STORM DRAINAGE PLAN AND PROFILE SHEETS FOR PIPE TYPE AND DIAMETER, RIM AND INVERT ELEVATIONS, SHEETS C3.0-C3.1.
6. PROVIDE AND INSTALL PEDESTRIAN RAMP PER SPOKANE COUNTY STANDARD PLAN A-5. (DESIGN B).
7. PROVIDE AND INSTALL 20' WIDE DRIVEWAY PER SPOKANE COUNTY STANDARD PLAN A-4. SEE DRIVEWAY LOCATION TABLE THIS SHEET.
8. PROVIDE AND INSTALL DIRECTIONAL STREET NAME SIGN PER SPOKANE COUNTY STANDARDS AND SPECIFICATIONS.
9. PROVIDE AND INSTALL SURVEY MONUMENT PER SPOKANE COUNTY STANDARD PLAN A-14.

NOTE: SEE THIS SHEET FOR LINE AND CURVE TABLE. SEE SHEET C0.2 FOR PERMIT ST

UNDERGROUND SERVICE ALERT
DIG-CALL NUMBER
811
TWO WORKING DAYS BEFORE YOU DIG

Curve Table TBC			
Curve #	Length	Radius	Delta
C8	54.96	29.50	106.75
C9	30.28	29.34	59.14
C10	44.09	29.50	85.62
C11	47.49	29.50	92.08
C12	39.21	29.50	76.16
C13	56.79	29.50	110.12
C14	46.34	29.50	90.00
C15	46.34	29.50	90.00
C16	16.68	29.50	36.85
C17	129.70	45.50	163.33
C18	16.68	29.50	36.85
C19	46.14	29.50	89.61
C20	46.34	29.50	90.00
C21	46.36	29.45	90.00

*CURVE DATA FROM TBC



DRIVEWAY CL LOCATION TABLE			
BLOCK	LOT	ALIGNMENT	STATION
1	1	SILVER PINE RD	25+45.63
	2	SILVER PINE RD	26+76.60
	3	SILVER PINE RD	28+72.73
3	4	SILVER PINE RD	28+87.60
	5	SILVER PINE RD	29+37.02
	6	SILVER PINE RD	29+86.00
	7	SILVER PINE RD	30+75.94
	8	SILVER PINE RD	32+43.50
	9	SILVER PINE RD	32+93.00
	10	SILVER PINE RD	33+38.37
	11	SILVER PINE RD	33+80.02
	12	SILVER PINE RD	33+88.06
	13	SILVER PINE RD	33+30.01
	14	SILVER PINE RD	34+04.56
	15	SILVER PINE RD	34+38.46
	16	SILVER PINE RD	34+73.29
	17	SILVER PINE RD	35+34.39
	18	SILVER PINE RD	35+77.75
	19	SILVER PINE RD	36+37.75
6	1	SILVER PINE RD	25+72.89
	2	SILVER PINE RD	26+05.14
	3	SILVER PINE RD	26+77.16
7	1	PASKE RD	2+9.92
	2	PASKE RD	31+52.22
	3	PASKE RD	32+12.50
	4	PASKE RD	32+42.81
	5	PASKE RD	33+06.33
	6	PASKE RD	33+51.19
	7	PASKE RD	34+10.42
	8	PASKE RD	34+61.30
	9	PASKE RD	35+30.48
	10	PASKE RD	35+84.44
	11	PASKE RD	36+19.78
	12	PASKE RD	36+54.11
N/A	N/A	PERRY ST	45+18.71
			45+18.71

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT
CONSTRUCTION PLANS
PROJECT # P-22-0-0
DATE ACCEPTED: 03-27-2023
PROJECT LINE MILES PUBLIC: 0.0
PROJECT LINE MILES PRIVATE: 0.5
CONSTRUCTION CONFORMATION AND WARRANTY
THE ENGINEER WHOSE SEAL APPEARS ON THIS DOCUMENT HAS PERFORMED WORK WITHIN THE SCOPE OF THE PROFESSIONAL ENGINEERING PROFESSION AND ASSUMES NO RESPONSIBILITY FOR COMPLIANCE WITH CODES, STANDARDS, OR OTHER REGULATORY REQUIREMENTS.
VERIFY PROJECT NUMBER & DOCUMENT DATE WITH PROJECT ENGINEER

NAVD - 88 DATUM
VERTICAL DATUM BASED ON COUNTY MONUMENT 02-R07 (NAVD 88)
JAMES CLAY SECTION, LOCATED NW CORNER OF THE INTERSECTION OF BRUCE AND HATCH RD. ELEV. = 1610.00 (NAVD 88)
CONC. MONUMENT 3/4 INCH IN DIAMETER ON TOP. ELEV. = 1610.00 (NAVD 88)

SCALE:	PROJ #: 17-1762	KEY PLAN
HORIZONTAL: 1" = 50'	DATE: 05/01/18	COVER SHEET
VERTICAL: 1"=10'	DRAWN: CTR	CIVIL
	REVIEWED: TRW	LANDSCAPE

WCE
WHITE CRUZ ENGINEERING
818 W RIVER RD.
SPOKANE, WA 99212
T: (509)924-7693 FAX: (509)924-7697

WINDSOR ESTATES EAST
SILVER PINE RD TO PASKE RD P&P
HATCH ROAD
SPOKANE COUNTY, WASHINGTON

SHEET
C3.0

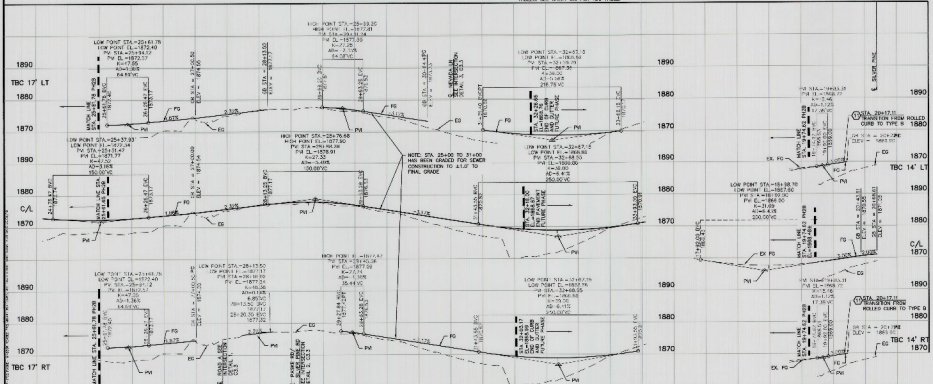
JOB NUMBER
17-1762

NE¼, SEC.29, T.27N., R.43E., W.M.

CONSTRUCTION NOTES

1. SAWCUT AND REMOVE 1' MINIMUM OF EXISTING PAVEMENT PER BLAND CUT AND PATCH PATTERN FOR ASPHALT PAVEMENT & SLOPE VERTICAL EDGE. TACK COAT EXISTING PAVEMENT PRIOR TO NEW PAVING. MATCH EXISTING.
2. PREPARE AND INSTALL STREET PAVEMENT PER PAVING SECTION. SEE SHEET CS.2.
3. PREPARE AND INSTALL TYPE C CURB AND GUTTER PER SPOKANE COUNTY STANDARD PLAN A-3.
4. PREPARE AND INSTALL 5' SIDEWALK PER TYPICAL SECTION. SEE SHEET CS.2.
5. STORM STRUCTURE. SEE STORM DRAINAGE PLAN AND PROFILE SHEETS FOR RIM TYPE AND DIAMETER. RIM AND INVERT ELEVATIONS. SHEETS CS.0-CS.2.
6. PROVIDE AND INSTALL PEDESTRIAN RAMP PER SPOKANE COUNTY STANDARD PLAN A-5. (DESIGN B).
7. PROVIDE AND INSTALL 20' WIDE DRIVEWAY PER SPOKANE COUNTY STANDARD PLAN A-4. SEE DRIVEWAY & LOCATION TABLE. THIS SHEET.
8. PROVIDE AND INSTALL DIRECTIONAL STREET NAME SIGN FOR PASKE RD & SILVER PINE RD PER SPOKANE COUNTY STANDARD AND SPECIFICATIONS.
9. PROVIDE AND INSTALL SURVEY MONUMENT PER SPOKANE COUNTY STANDARD PLAN A-14.
10. PROVIDE AND INSTALL TYPE "R" CURB PER DETAIL 1, THIS SHEET (ON NEVADA LN ONLY).
11. TRANSITION FROM ROLLED CURB TO TYPE B.
12. PROVIDE AND INSTALL 6' WIDE TYPE III WARRIGANE PER SPOKANE COUNTY MOTCD STANDARDS AND SPECIFICATIONS.

NOTE: SEE THIS SHEET FOR E LINE AND CURVE TABLES. SEE SHEET 3.0 FOR TBC TABLE.



GRAPHIC SCALE

50 25 0 50 100

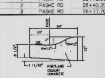
(IN FEET)
1 inch = 50 ft.

DRIVEWAY CL LOCATION TABLE

BLOCK	LOT	ALIGNMENT	STATION
1	1	SILVER PINE RD	19+00.00
	4	SILVER PINE RD	19+43.42
	10	SILVER PINE RD	19+98.60
2	1	NEVADA LN	19+00.11
	2	NEVADA LN	19+65.82
	1	SILVER PINE RD	21+84.66
	2	SILVER PINE RD	21+20.06
	3	SILVER PINE RD	20+74.04
6	4	PASKE RD	25+13.37
6	5	PASKE RD	25+48.53
6	6	PASKE RD	25+83.70
3	1	PASKE RD	28+17.70

TYPE "R" CURB (1)

NOT TO SCALE



Curve Table

Curve #	Length	Radius	Delta
C2	34.78	47.50	41.95
C3	173.67	275.00	36.18
C4	127.29	275.00	26.52
C5	233.83	500.32	26.78
C6	72.72	44.50	89.81

*SOURCE DATA FROM ¶

Line Table

Line #	Length	Direction
L1	106.38	S89° 22' 26"W
L2	110.82	N0° 42' 20"W
L3	17.24	N47° 30' 32"W
L4	78.45	N30° 32' 41"E
L5	201.66	S63° 49' 52"E
L6	493.83	N89° 22' 26"E
L7	170.86	N2° 12' 29"E
L8	45.81	N2° 12' 19"W
L9	235.43	N57° 02' 51"E
L10	94.10	S32° 57' 09"E

*LINE DATA FROM ¶

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC IMPROVEMENT PLANS
CONSTRUCTION PLANS
PROJECT # 17-1762
DATE ACCEPTED: 10-28-20
PROJECT NAME: WINDSOR ESTATES EAST
PROJECT LANE MILES: 0.62
CONSTRUCTION SPECIFICATIONS AND SUPERVISED BY: WCE
THE ENGINEER OF RECORD HAS CERTIFIED TO COUNTY ACCEPTANCE THE ACTUAL CHANGES IN THE PLANS AS SHOWN ON THE RED LINE REVISIONS.
KENT FRANK CHANCEY 3 SIGNED DATE
PROFESSIONAL ENGINEER

NAVD - 88 DATUM

VERTICAL DATUM BASED ON POINT 'SUNDAY' (GAD) HAVING LONGITUDE 117.5(NAD83) LOCATION 2 MILES NORTH OF THE JUNCTION OF SR 395 WITH SR 206 – SOLAR WAND 208 IN CONC. PARCERS 2S & 3S (27 WAPPA CN 7 & 8 APS - (7/6/2T))

SCALE:	PROJ #:	17-1762
HORIZONTAL: 1" = 50'	DATE:	08/01/19
VERTICAL: 1"= 50'	DRAWN:	CTR
	REVIEWED:	TRW

WCE
WORKS | CIVILS | PROJECTS
2010 S. PINE STREET
SPOKANE, WASHINGTON 99202
PH 509-535-7101 FAX 509-535-7105

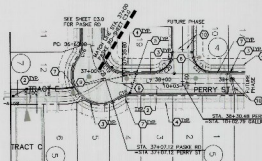
WINDSOR ESTATES EAST
PASKE/SILVER PINE RD & NEVADA LN P&P
HATCH ROAD
SPOKANE COUNTY, WASHINGTON

SHEET
CS.1

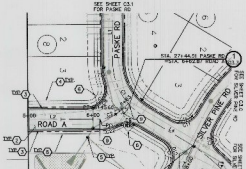
JOB NUMBER
17-1762

NE¼, SEC.29, T.27N., R.43E., W.M.

UNDERGROUND SERVICE ALERT
CALL BEFORE YOU DIG
811



TRACT E & PERRY ST PLAN
SCALE: 1"=50'



ROAD A PLAN
SCALE: 1"=50'

CONSTRUCTION NOTES

1. RESERVED.
2. PROVIDE AND INSTALL STREET PAVEMENT PER TYPICAL SECTION, SEE SHEET C0.2.
3. PROVIDE AND INSTALL TYPE B CURB AND GUTTER PER SPOKANE COUNTY STANDARD PLAN A-3.
4. PROVIDE AND INSTALL 5' SIDEWALK PER TYPICAL SECTION, SEE SHEET C0.2.
5. STORM STRUCTURE, SEE STORM DRAINAGE PLAN AND PROFILE SHEETS FOR PIPE TYPE AND DIAMETER, RIM AND INVERT ELEVATIONS, SHEETS C5.0-C5.1.
6. PROVIDE AND INSTALL PEDESTRIAN RAMP PER SPOKANE COUNTY STANDARD PLAN A-5, DESIGN #5.
7. PROVIDE AND INSTALL 20' WIDE DRIVEWAY PER SPOKANE COUNTY STANDARD PLAN A-4, SEE DRIVEWAY & LOCATION TABLE, THIS SHEET.
8. PROVIDE AND INSTALL 6' SIDEWALK PER TYPICAL SECTION, SEE SHEET C0.2.
9. PROVIDE AND INSTALL SURVEY MONUMENT PER SPOKANE COUNTY STANDARD PLAN A-14.
10. PROVIDE AND INSTALL 8' WIDE TYPE III BARRICADE PER CURRENT MUTCD STANDARDS AND SPECIFICATIONS.

NOTE: SEE THIS SHEET FOR LINE AND CURVE TABLES.

DRIVEWAY CL LOCATION TABLE

BLOCK	LOT	ALIGNMENT	STATION
4	16	PERRY ST	36+88.58
5	1	PERRY ST	36+76.21
	2	PERRY ST	35+44.74
	3	PERRY ST	34+57.27
	4	PERRY ST	37+14.81
	5	PERRY ST	36+31.68
N/A	N/A	PERRY ST	36+97.55 (45.42RT)
	6	TRACT C	37+01.01

Curve Table

Curve #	Length	Radius	Delta
C2	34.78	47.50	41.93°
C3	173.67	275.00	36.18
C4	197.30	275.00	38.50
C5	313.85	500.32	35.78
C6	72.72	46.50	89.61

*COURSE DATA FROM ¶

Line Table

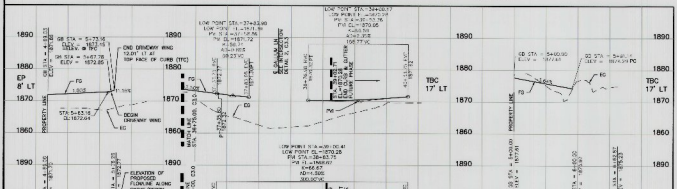
Line #	Length	Direction
L1	108.39	S86° 37' 26"W
L2	110.82	N0° 42' 20"W
L3	17.24	N42° 36' 25"W
L4	78.45	N39° 32' 41"E
L5	201.66	S82° 49' 52"E
L6	483.63	N89° 22' 25"E
L7	170.06	N0° 13' 54"W
L8	45.81	N0° 13' 19"W
L9	235.43	N0° 13' 54"W
L10	94.10	S32° 53' 09"E

*LINE DATA FROM ¶

Curve Table TBC

Curve #	Length	Radius	Delta
C8	34.80	25.30	105.75
C9	30.26	29.34	58.14
C10	44.09	29.50	85.62
C11	47.40	29.50	92.06
C12	34.21	29.50	74.14
C13	56.70	29.50	110.12
C14	46.34	29.50	90.00
C15	46.34	29.50	90.00
C16	18.98	29.50	36.86
C17	129.79	45.50	163.33
C18	18.98	29.50	36.86
C19	46.14	29.50	89.61
C20	46.34	29.50	90.00
C21	46.34	29.50	90.00

*COURSE DATA FROM TBC



TRACT E PROFILE
PERRY ST PROFILE
ROAD A PROFILE

NAVD - 88 DATUM
VERTICAL DATUM ANALGAN CLAIMS TEMPORARY BENCH MARK
LOCATED ON LIGHTPOLE - STATION 3+48 PRIMARY OF 3.0
JUNCTION OF 20 AND PAGE ROAD 300 - 300 LT AND 20 RT
ELEV. IMPERIAL 2.0 = 2.0 M M METRIC (2.0 FT) (APPX 1/1000 FT)

SCALE:	PROJ #:	17-1762	X:\CIVIL\
HORIZONTAL: 1" = 50'	DATE:	06/21/18	17-1762.DWG
VERTICAL: 1"=10'	DRAWN:	CTR	1 SHT
	REVIEWED:	TRW	24x36
			ANSI D

WCE
WHITLAM CROSS METCALFE & ESTES, INC.
SPOKANE VALLEY, WA 99206
TEL 509-924-7145 FAX 924-9207

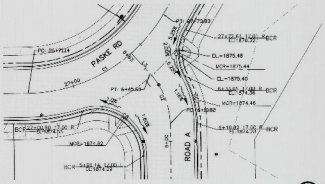
WINDSOR ESTATES EAST
TRACT E/ST & NEVADA RD P&P
HATCH ROAD
SPOKANE COUNTY, WASHINGTON

SHEET C3.2
JOB NUMBER 17-1762

APPROVED PUBLIC WORKS SIGNAL & ROAD DESIGN
CONSTRUCTION PLANS
PROJECT # 17-1762
DATE ACCEPTED: 03-22-19
ACCEPTANCE EXPIRES: 03-22-20
PROJECTS LAND MUST PUBLIC: 18-
PROJECTS LAND MUST PRIVATE: 03-
CONDITIONS AND EXCEPTIONS ARE NOTED ON RECORD DRAWINGS. "AS-BUILT" OR RECORD PRINT SHEETS ARE REQUIRED WITHIN 90 DAYS OF FINAL AND SEALED/SIGNED PLACED ON CONTROLLED PRINT SHEETS (MYLAR) AND
NOTE: "RED LINE" OR MARKED PRINTS ARE NOT ACCEPTABLE

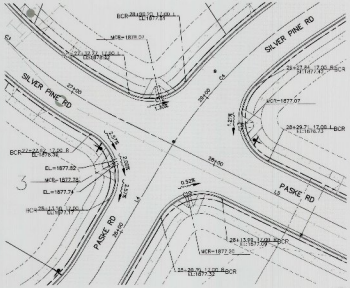
NE¼, SEC.29, T.27N., R.43E., W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
TOLL FREE NATIONAL INFO
(800) 553-4344



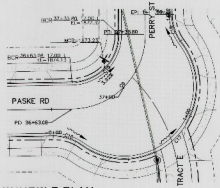
INTERSECTION DETAIL 1

PASKE RD STA. 27+44.31 = ROAD A STA. 8+98.67
SCALE: 1"=20'



INTERSECTION DETAIL 2

PASKE RD & SILVER PINE RD
SCALE: 1"=20'

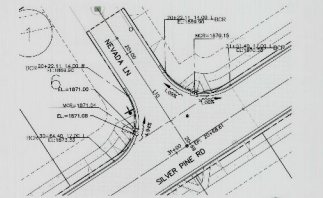


KNUCKLE PLAN

PASKE RD & PERRY ST
SCALE: 1"=20'

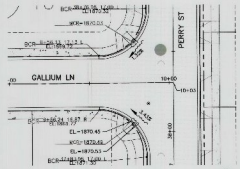
KNUCKLE PROFILE 4

PASKE RD & PERRY ST
SCALE: 1"=20'



INTERSECTION DETAIL 3

NEVADA LN & SILVER PINE RD
SCALE: 1"=20'



INTERSECTION DETAIL 4

PERRY ST & GALLIUM LN
SCALE: 1"=20'

Curve Table TBC			
Curve #	Length	Radius	Delta
C6	54.96	29.50	106.75
C9	30.28	29.34	59.14
C10	44.09	29.50	85.62
C11	47.40	29.50	92.08
C12	39.21	29.50	76.16
C13	56.70	29.50	110.12
C14	46.34	29.50	90.00
C15	46.34	29.50	90.00
C18	18.98	29.50	36.86
C17	109.70	45.50	138.13
C16	18.98	29.50	36.86
C19	46.14	29.50	89.61
C20	46.34	29.50	90.00
C21	46.36	29.45	90.20

*CURVE DATA FROM TOP BACK OF CURB

Curve Table ℄			
Curve #	Length	Radius	Delta
C7	34.76	47.50	41.95
C3	173.67	275.00	36.18
C4	127.20	275.00	26.50
C5	233.83	500.00	26.79
C8	72.72	46.50	89.61

*CURVE DATA FROM ℄

Line Table ℄		
Line #	Length	Direction
L1	109.36	S89° 22' 26"W
L2	110.82	N0° 42' 20"W
L3	17.24	N42° 39' 35"W
L4	76.45	N30° 32' 41"E
L5	201.66	S62° 49' 52"E
L6	493.83	N89° 22' 26"E
L7	170.86	N0° 17' 28"W
L8	45.81	N0° 23' 18"W
L9	235.43	N57° 01' 51"E
L10	94.10	S33° 57' 09"E

*LINE DATA FROM ℄

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORDINANCE
CONSTRUCTION PLAN
PROJECT # 17-1762
DATE ACCEPTED: 6/21/18
DATE EXPIRES: 6/21/20
PROJECT LANE MILES: PUBLIC: 0.0
PROJECT LANE MILES: PRIVATE: 0.0
SPOKANE COUNTY ENGINEERING HAS REVIEWED THIS PLAN FOR GENERAL CONFORMANCE WITH THE COUNTY'S GENERAL STANDARDS, AND COORDINATION OF THE PLAN WITH THE PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM (CIP) ELEMENTS (SEC. 57.1.08).
NORTH FORK DEVELOPER'S AGREEMENT DATE:
NORTH FORK DEVELOPER:

NAVD - 88 DATUM
VERTICAL DATUM BASED ON NATIONAL GEODETIC SURVEY (NGS) BENCH MARK
DESCRIPTION: BRASS CAP, LOCATED ON A 2 FOOT SQUARE CONCRETE MONUMENT
LOCATION: 0.7 MILES NORTH OF MILE POST 7.8 ALONG WEST BOULEVARD IN
CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON
PID: DG0000 (NGS DESIGNATION: DG0000 NAD 83) (ELEV: 1,712.4 FEET)

SCALE:	PROJ #: 17-1762
HORIZONTAL: 1"=20'	DATE: 06/01/18
VERTICAL: 1"=10'	DRAWN: CRR
	REVIEWED: TRW

REVISIONS	
1	06/21/18 - PER PLAN REVIEW
2	
3	
4	
5	
6	
7	
8	
9	
10	

WCE
WHITNER CLARK & MOCKERZIE
ENGINEERING
1115 N. MAYNARD, SPOKANE, WA 99201
P: (509)326-2700 F: (509)326-2701

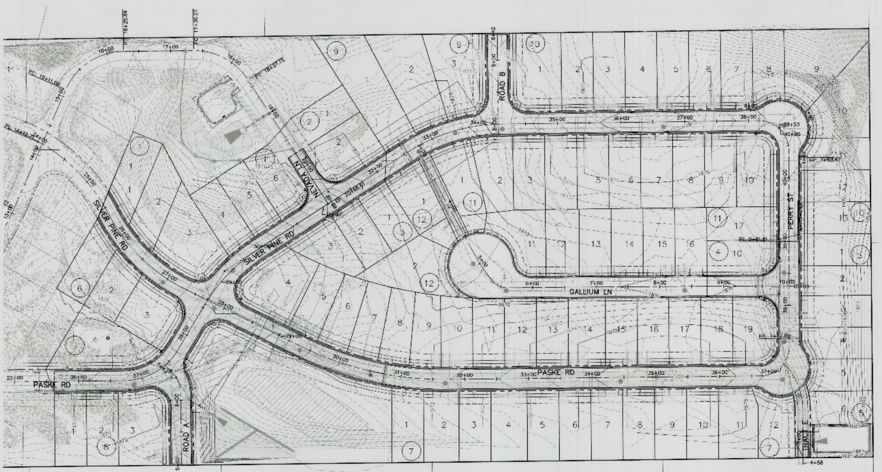
WINDSOR ESTATES EAST
STREET DETAILS
HATCH ROAD
SPOKANE COUNTY, WASHINGTON

SHEET
C3-3

JOB NUMBER
17-1762

NE¼, SEC.29, T.27N., R.43E., W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG



GRADING PLAN
SCALE: 1"= 50'

N
W E
S

QUANTITIES
CUT: 33,107 CY
FILL: 43,661 CY
NET: 10,554 CY

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

NAVD - 88 DATUM
VERTICAL DATUM BASED ON FOUND TEMPORARY BENCH MARK LOACTED AT (GENERAL LOCATION) 3.4 MILES NORTH OF THE JUNCITON OF SR 395 AND SR 902 TBM – (WSDOT BRASS DISK IN CONC. #GP32395 202 & 523.24 M NAVD88 (CALCULATED 1716.57 FT)

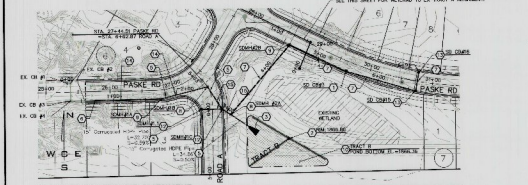
SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-2058
DATE ACCEPTED: 05-22-18
ACCEPTANCE EXPIRES: 05-22-20
PROJECTS LANE MILES: PUBLIC: .80
PROJECT LANE MILES PRIVATE: .02
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR 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

TODD R. WHIPPLE — REGISTERED PROFESSIONAL ENGINEER — 5/21/18

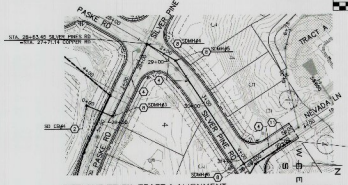
SCALE:				WCE	WINDSOR ESTATES EAST	SHEET C4.0
HORIZONTAL: 1"=50'	PROJ #:	17-1762	X CIVIL	WHIPPLE CONSULTING ENGINEERS	GRADING PLAN	
	DATE:	05/21/18	STRUCTURAL			
	DRAWN:	STT	SURVEYING / DRAFTING		HATCH ROAD	JOB NUMBER
VERTICAL: N/A	REVIEWED:	TRW	PLANNING / LANDSCAPE / OTHER		SPOKANE COUNTY, WASHINGTON	17-1762

NE¼, SEC.29, T.27N., R.43E., W.M.

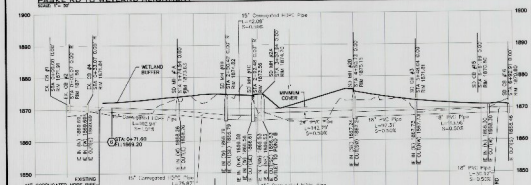
SEE THIS SHEET FOR WETLAND TO EX. TRACT A ALIGNMENT.



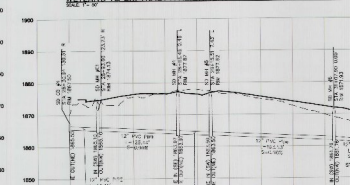
PASKE RD TO WETLAND ALIGNMENT
SCALE: 1"= 50'



WETLAND TO EX. TRACT A ALIGNMENT
SCALE: 1"= 50'



PASKE RD TO WETLAND ALIGNMENT (TRACT B)
SCALE: 1"= 50' HZ
1"= 10' VT



WETLAND TO EX. TRACT A ALIGNMENT (OVERFLOW)
SCALE: 1"= 50' HZ
1"= 10' VT

CONSTRUCTION NOTES

1. PROVIDE AND INSTALL TYPE 1 CATCH BASIN PER SPOKANE COUNTY STANDARD PLAN B-4, WITH TYPE 1 METAL FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLANS B-10 AND D-12. (ONE DIRECTION)
2. PROVIDE AND INSTALL TYPE 1 CATCH BASIN PER SPOKANE COUNTY STANDARD PLAN B-4, WITH TYPE 2 METAL FRAME AND TYPE 3 GRATE PER SPOKANE COUNTY STANDARD PLANS D-11 AND B-14. (BIDIRECTIONAL)
3. PROVIDE AND INSTALL RIPRAP AND AT PIPE OUTLET. SIM DETAIL 1, SHEET C5.3 FOR PAD DIMENSIONS.
4. PROVIDE AND INSTALL 12" C-900 PVC STORM PIPE. SEE PROFILE VIEW FOR LENGTH AND ELEVATION, THIS SHEET. TRENCH AND BEDDING PER SPOKANE COUNTY STANDARDS AND SPECIFICATIONS.
5. PROVIDE AND INSTALL 15" HDPE STORM PIPE. SEE PLAN AND PROFILE, THIS SHEET. TRENCH AND BEDDING PER SPOKANE COUNTY STANDARDS AND SPECIFICATIONS.
6. CONNECT TO EXISTING 15" HDPE STUB AND PROVIDE AND INSTALL 15" HDPE STORM PIPE. SEE PLAN AND PROFILE, THIS SHEET. TRENCH AND BEDDING PER SPOKANE COUNTY STANDARDS AND SPECIFICATIONS. CONTRACTOR TO POTHOLE AND VERIFY EXISTING INVERT ELEVATION AND EXACT LOCATION PRIOR TO INSTALLATION.
7. PROVIDE AND INSTALL 18" C-900 PVC STORM PIPE. SEE PROFILE VIEW FOR LENGTH AND ELEVATION, THIS SHEET. TRENCH AND BEDDING PER SPOKANE COUNTY STANDARDS AND SPECIFICATIONS.
8. PROVIDE AND INSTALL 48" TYPE 1 MANHOLE WITH SOLID LID LABELED "STORM" PER SPOKANE COUNTY PLAN U-2.
9. PROVIDE AND INSTALL 48" TYPE 1 MANHOLE PER SPOKANE COUNTY PLAN U-2, WITH TYPE 1 METAL FRAME AND GRATE (ONE DIRECTIONAL) PER SPOKANE COUNTY STANDARD PLAN B-10 AND H-12.
10. PROVIDE AND INSTALL SUBMARITED TREATMENT POND. SEE DETAIL 1 FOR CROSS SECTION, DIMENSIONS, AND FINISH GRADE ELEVATIONS, SHEET C5.2. SEE SHEET C4.0-C7.0 FOR COMPLETE GRADING PLAN.
11. CONNECT TO EXISTING 12" PVC SERVICE STUB AND PROVIDE AND INSTALL 12" C-900 PVC STORM PIPE. SEE PLAN AND PROFILE, THIS SHEET. TRENCH AND BEDDING PER SPOKANE COUNTY STANDARD SPECIFICATIONS. CONTRACTOR TO POTHOLE AND VERIFY EXISTING INVERT ELEVATION AND EXACT LOCATION PRIOR TO INSTALLATION.
12. PROVIDE AND INSTALL 48" TYPE 1 MANHOLE PER SPOKANE COUNTY PLAN U-2, WITH TYPE 2 METAL FRAME AND TYPE 3 GRATE (BI-DIRECTIONAL) PER SPOKANE COUNTY STANDARD PLAN B-11 AND B-14.
13. PROVIDE AND INSTALL TYPE 2 CATCH BASIN PER WSDOT STANDARD PLAN B-10.20.01, WITH TYPE 2 METAL FRAME WITH HOOD, AND TYPE 3 GRATE (BIDIRECTIONAL).
14. SLEEVE WATER SERVICE WITH 30" CONTINUOUS STRIP OF PIPE, CENTERED AT STORM CROSSING PER SPOKANE COUNTY STANDARDS AND SPECIFICATIONS.
15. LOWER WATER MAIN AT STORM CROSSING PER DETAIL 6, SHEET C7.3 OF THE WATER PLAN. THIS NOTE TAKES PRECEDENCE OVER WATER PLAN.

NAVD - 88 DATUM
FOR SURVEY CONTROL PURPOSES, CORPORATE PRECISE LEVELING BENCHMARK LOCATED IN THE SE QUADRANT OF THE INTERSECTION OF STEVENS AND BAKER AVE. WITH A PUBLISHED ELEVATION OF 1,860.00 (NGVD 29) AND 1,861.34 (NAVD 88) AS ADJUSTED (1 FOOT = 0.3048 METERS)

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL THE NUMBER BELOW BEFORE YOU DIG

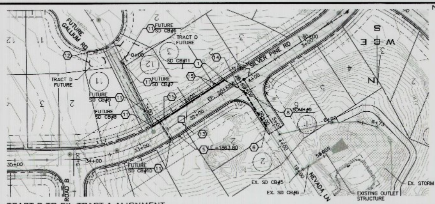
SPOKANE COUNTY PUBLIC WORKS
ENGINEERING DIVISION - REVIEWED
CONSTRUCTION PLANS
PROJECT NAME: WINDSOR ESTATES EAST
PLAN ACCEPTED: 05/14/18
ACCEPTANCE EXPIRES: 05/14/20
PROJECT LAND AREA: 19.83 ACRES
PROJECT LANE MILES PRIOR: 0.0
PROJECT LANE MILES ADDED: 0.0
REVIEW STAMPED "CLEARLY" ON PLANS, THIS STAMP DOES NOT INDICATE THE PLANS HAVE BEEN REVIEWED FOR COMPLIANCE WITH ALL APPLICABLE CODES, STANDARDS, OR REGULATIONS. THE PLANS MAY STILL BE SUBJECT TO CORRECTIONS.
JEFF SPOSITO, P.E.
SPOKANE COUNTY ENGINEER

SCALE:	PROJ #: 17-1762	DESIGN:	WCE	WCE 1	WINDSOR ESTATES EAST	SHEET
HORIZONTAL: 1" = 50'	DATE: 06/01/18	DRAWN:	WYT	1	TRACT A & TRACT B STORM PIPE P&P	C5.0
VERTICAL: 1"=10'	REVIEWED:	TRW			HATCH ROAD	
					SPOKANE COUNTY, WASHINGTON	

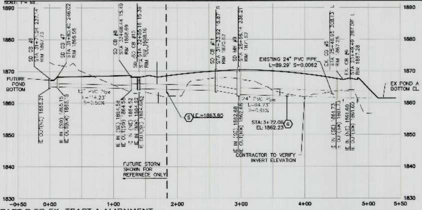
WCE
WHITE CROW ENGINEERING
1115 W BOONE
SPOKANE, WA 99201
PH: 509.326.2617 FAX: 509.326.2618

JOB NUMBER
17-1762

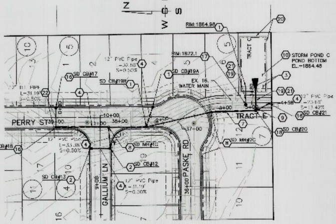
NE¼, SEC.29, T.27N., R.43E., W.M.



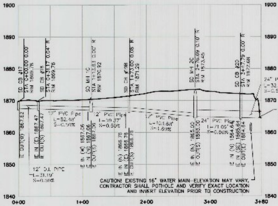
TRACT D TO EX. TRACT A ALIGNMENT
SCALE: 1"= 50'



TRACT D TO EX. TRACT A ALIGNMENT
SCALE: 1"= 50'



PERRY RD TO TO POND C ALIGNMENT (TRACT C)
SCALE: 1"= 50'



PERRY TO POND C ALIGNMENT (TRACT C)
SCALE: 1"= 50'

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

CONSTRUCTION NOTES

1. PROVIDE AND INSTALL TYPE 1 CATCH BASIN PER SPOKANE COUNTY STANDARD PLAN B-4. WITH TYPE 1 METAL FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLANS B-10 AND B-12. (ONE DIRECTION)
2. PROVIDE AND INSTALL TYPE 1 CATCH BASIN PER SPOKANE COUNTY STANDARD PLAN B-4. WITH TYPE 2 METAL FRAME AND TYPE 3 GRATE PER SPOKANE COUNTY STANDARD PLANS B-11 AND B-14. (BIDIRECTIONAL)
3. PROVIDE AND INSTALL RIPRAP PAD AT PIPE OUTLET. SEE DETAIL 3, SHEET C5.2 FOR PAD DIMENSIONS.
4. PROVIDE AND INSTALL 12" C-900 PVC STORM PIPE, SEE PROFILE VIEW FOR LENGTH AND ELEVATION, THIS SHEET. TRENCH AND BEDDING PER SPOKANE COUNTY STANDARDS AND SPECIFICATIONS.
5. PROVIDE AND INSTALL 18" C-900 PVC STORM PIPE STUB AND CAP END OF PIPE FOR FUTURE CONNECTION. LENGTH AND INVERTS PER PLAN AND PROFILE, THIS SHEET. TRENCH AND BEDDING PER SPOKANE COUNTY STANDARD SPECIFICATIONS.
6. CONNECT TO EX. 24" C900 PVC PIPE AND PROVIDE AND INSTALL 24" C-900 PVC STORM PIPE. SIZE PER PLAN AND PROFILE, THIS SHEET. TRENCH AND BEDDING PER SPOKANE COUNTY STANDARD SPECIFICATIONS. CONTRACTOR TO POTHOLE AND VERIFY EXISTING INVERT ELEVATION AND EXACT LOCATION PRIOR TO INSTALLATION.
7. PROVIDE AND INSTALL 18" C-900 PVC STORM PIPE. LENGTH AND INVERTS PER PLAN AND PROFILE, THIS SHEET. TRENCH AND BEDDING PER SPOKANE COUNTY STANDARD SPECIFICATIONS.
8. PROVIDE AND INSTALL 48" TYPE 1 MANHOLE WITH SOLID LID LABELED "STORM" PER SPOKANE COUNTY PLAN U-2.
9. PROVIDE AND INSTALL 24" C-900 PVC STORM PIPE STUB AND CAP END OF PIPE FOR FUTURE CONNECTION. LENGTH AND INVERTS PER PLAN AND PROFILE, THIS SHEET. TRENCH AND BEDDING PER SPOKANE COUNTY STANDARD SPECIFICATIONS.
10. PROVIDE AND INSTALL STORMWATER TREATMENT POND. SEE POND C-DETAIL 4 FOR CROSS SECTION, DIMENSIONS, AND FINISH GRADE ELEVATIONS. SHEET C5.2. SEE SHEET C4.0-FOR COMPLETE GRADING PLAN.
11. FUTURE PHASE CATCH BASIN. SHOWN FOR REFERENCE ONLY.
12. FUTURE STORMWATER TREATMENT POND. SHOWN FOR REFERENCE ONLY.
13. PROVIDE AND INSTALL 10' WIDE X 10' LONG BY 1' DEEP TEMPORARY STORMWATER TREATMENT POND. PROVIDE AND INSTALL 12" OF TREATMENT SOIL BENEATH POND BOTTOM. SEE TREATMENT SOIL NOTE ON C5.2 FOR SOIL REQUIREMENTS.
14. LOWER WATER MAIN AT STORM CROSSING PER DETAIL 8, SHEET C7.2 OF THE THE WATER PLAN. THIS NOTE TAKES PRECEDENCE OVER WATER PLAN.
15. IF A MINIMUM OF 18" OF VERTICAL CLEARANCE BETWEEN WATER AND STORM PIPE CAN NOT BE MET, SLEEVE WATER SERVICE WITH 20' CONTINUOUS STICK OF PIPE, CENTERED AT STORM CROSSING. THIS NOTE TAKES PRECEDENCE OVER WATER PLAN.
16. PROVIDE AND INSTALL TYPE 2 CATCH BASIN PER WSDOT STANDARD PLAN B-10.20.01, WITH TYPE 2 METAL FRAME WITH HOOD, AND TYPE 3 GRATE (BIDIRECTIONAL).
17. PROVIDE AND INSTALL TYPE B DRYWELL WITH TYPE 4 GRATE PER SPOKANE COUNTY STANDARD PLAN B-1 AND B-15.
18. PROVIDE AND INSTALL TYPE 1 CATCH BASIN PER SPOKANE COUNTY STANDARD PLAN B-4. WITH SOLID LID LABELED STORM PER SPOKANE COUNTY STANDARDS.
19. CAUTION! STORM/WATER CROSSING. CONTRACTOR SHALL VERIFY EXACT LOCATION AND INVERT ELEVATION AT CROSSING PRIOR TO CONSTRUCTION.
20. PROVIDE AND INSTALL ROCK RETAINING WALL AND 4' TALL CHAIN LINK FENCE AROUND THE PERIMETER OF THE BOTTOM OF POND C PER DETAIL 2, SHEET C5.2. RETAINING WALL AND FENCE TO BE INSTALLED PER MANUFACTURERS STANDARDS AND SPECIFICATIONS.
21. IF A MINIMUM OF 18" OF VERTICAL CLEARANCE BETWEEN WATER AND STORM PIPE CAN NOT BE MET, SLEEVE STORM PIPE WITH 20' CONTINUOUS STICK OF PIPE, CENTERED AT EXISTING 16" WATER MAIN CROSSING. PROVIDE A MINIMUM OF 6" OF VERTICAL CLEARANCE BETWEEN WATER AND STORM PIPE.
22. PROVIDE AND INSTALL 12" CLASS 50 D.I. STORM PIPE LENGTH AND INVERTS PER PLAN AND PROFILE, THIS SHEET. TRENCH AND BEDDING PER SPOKANE COUNTY STANDARD SPECIFICATIONS.

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-2058
DATE ACCEPTED: 05-22-18
ACCEPTANCE EXPIRES: 05-22-18
PROJECTS LANE MILES: PUBLIC: .80
PROJECT LANE MILES PRIVATE: .02
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)
1 inch = 50 ft.

NAVD - 88 DATUM
VERTICAL DATUM BASED ON FOUND TEMPORARY BENCHMARK LOCATED AT (GENERAL LOCATION) 3.4 MILES NORTH OF THE JUNCTION OF SR 395 AND SR 002 ISM – (WSDOT BRASS DISK IN CONC. #GP32035-202 & 62321 V-NAVD88 (CALCULATED 1716.57 FT)

SCALE:		
HORIZONTAL: 1" = 50'	PROJ #: 17-1762	X CIVIL
VERTICAL: 1" = 10'	DATE: 05/21/18	STRUCTURAL
	DRAWN: CTR	SURVEYING
	REVIEWED: TRW	TRAFFIC / PLANNING / LANDSCAPE / OTHER

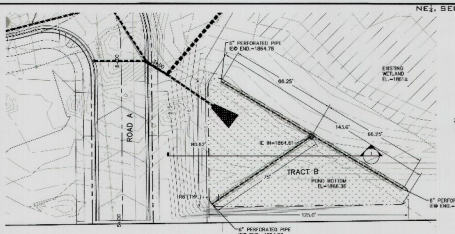
WCE
WHIPPLE CONSULTING ENGINEERS
SPOKANE VALLEY, WA

WINDSOR ESTATES EAST
TRACT C & TRACT D STORM PIPE P&P
HATCH ROAD
SPOKANE COUNTY, WASHINGTON

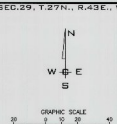
SHEET C5.1
JOB NUMBER 17-1762

NE¼, SEC.29, T.27N., R.43E., W.M.

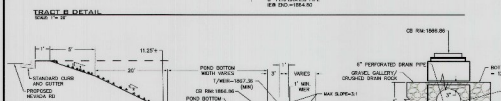
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
TWO FULL BUSINESS DAYS
BEFORE YOU DIG



TRACT B DETAIL
SCALE: 1" = 20'



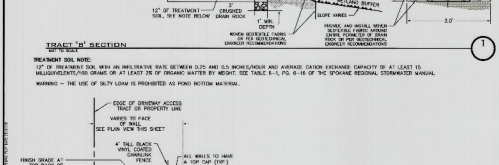
POND C DETAIL
SCALE: 1" = 20'



TRACT "B" SECTION
SCALE: 1" = 5'

TREATMENT SOIL NOTE:
12" OF TREATMENT SOIL WITH AN INFILTRATIVE RATE BETWEEN 0.25 AND 0.5 INCHES/HOUR AND AVERAGE CATION EXCHANGE CAPACITY OF AT LEAST 15 MILLIGHIVALENTS/100 GRAMS OR AT LEAST 2% OF ORGANIC MATTER BY WEIGHT. SEE TABLE 6-1, PG. 6-16 OF THE SPOKANE REGIONAL STORMWATER MANUAL

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

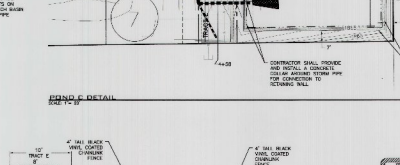


REDI-ROCK PRODUCT RETAINING WALL
SCALE: NOT TO SCALE

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

RIPRAP PAD DIMENSIONS					
VOLUME	AREA	LENGTH	WIDTH	DEPTH	
N/A	3.07	46.0	3.07	2' MIN.	12"

TYPICAL RIPRAP PAD
NOT TO SCALE



POND "C" SECTION
NOT TO SCALE

TREATMENT SOIL NOTE:
12" OF TREATMENT SOIL WITH AN INFILTRATIVE RATE BETWEEN 0.25 AND 0.5 INCHES/HOUR AND AVERAGE CATION EXCHANGE CAPACITY OF AT LEAST 15 MILLIGHIVALENTS/100 GRAMS OR AT LEAST 2% OF ORGANIC MATTER BY WEIGHT. SEE TABLE 6-1, PG. 6-16 OF THE SPOKANE REGIONAL STORMWATER MANUAL

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

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 17-1762
DATE ACCEPTED: 03-29-22
ACCEPTANCE EXPIRES: 03-29-23
PROJECTS LANE MILES PUBLIC: 0.00
PROJECTS LANE MILES PRIVATE: 0.00
CHAPTER 17D.050.060(H)(1)(A) AND (B)(1) REQUIRE SUBMITTAL "AS BUILTS" AND RECORDED PRIOR TO FINAL PLAT APPROVAL. CHAPTER 17D.050.060(H)(1)(C) REQUIRE AND SUBMITTAL PRIOR TO FINAL PLAT APPROVAL.
VISIT PWRD.SPOKANECOUNTY.WA.GOV/CONSTRUCTION FOR CONDITIONS

SCALE:	PROJ #: 17-1762	CHK'D:
HORIZONTAL: 1" = 20'	DATE: 08/21/18	DRAWN BY: CTR
VERTICAL: N/A	DRAWN BY: CTR	REVIEWED: TRW

WCE
WHITE CROW ENGINEERING
LICENSED PROFESSIONAL ENGINEERS
STEVENS TRUST BUILDING
19 SOUTH BUTLER, SPOKANE

WINDSOR ESTATES EAST
STORM POND DETAILS
HATCH ROAD
SPOKANE COUNTY, WASHINGTON

SHEET
C5.2
JOB NUMBER
17-1762

◆ NAVD - 88 DATUM
VERTICAL DATUM PROVIDED VIA TEMPORARY BENCH MARK LOCATED AT GENERAL LOCATION 3 MILES NORTH OF THE INTERSECTION OF HATCH RD AND MOVADA DIRECT ARTESIAN WELL CONE. #32 SON-003 & 005 IN MOVADA DIRECT ARTESIAN WELL

NE¼, SEC.29, T.27N., R.43E., W.M.

SWPPP/EROSION CONTROL PLAN

WINSOR ESTATES

PHASE 4

NE 1/4, SEC. 29, T.27 N., R. 43 E., W.M.

SPOKANE COUNTY, WA

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

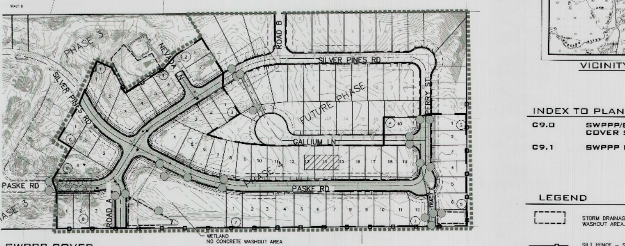
GENERAL NOTES

1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED SITE WORK STANDARDS AND THE STANDARDS AND SPECIFICATIONS SET FORTH IN **SPOKANE COUNTY** REGULATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN PUBLIC R.O.W. OR EASEMENTS SHALL BE INSPECTED AND APPROVED BY THE **SPOKANE COUNTY** INSPECTOR. INSPECTION SERVICES AND CONSTRUCTION CERTIFICATION TO BE PROVIDED BY DESIGNEE OF PROJECT SPONSOR/OWNER.
2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT THE CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE **SPOKANE COUNTY** INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.
4. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH **SPOKANE COUNTY** AND ALL UTILITY COMPANIES WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION, TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION, AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.
5. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND ONE (1) COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB ON-SITE AT ALL TIMES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO: EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
7. IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
8. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
9. FOR WORK AFFECTING PUBLIC ROADWAYS OR IF REQUIRED BY **SPOKANE COUNTY**, THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL AND PHASING PLAN IN ACCORDANCE WITH M.U.T.C.D. FOR APPROVAL PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN OR AFFECTING THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY SAID PLANS. PRIOR TO INSTALLATION, A PRECONSTRUCTION CONFERENCE SHALL BE HELD WITH **SPOKANE COUNTY.**
10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED, CONSTRUCTED, REMOVED OR RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE.
11. PER AGENCY STANDARDS THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING RECORD INFORMATION ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE AND AVAILABLE TO THE **SPOKANE COUNTY** INSPECTOR AT ALL TIMES.
13. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. FOR ADDITIONAL INFORMATION CONTACT THE ENGINEER FOR CLARIFICATION AND NOTE ON THE RECORD DRAWINGS.
14. ALL EROSION AND SEDIMENT CONTROL **(E.S.C.)** MEASURES SHALL BE INSTALLED AT THE LIMITS OF CONSTRUCTION PRIOR TO GROUND DISTURBING ACTIVITY. ALL **E.S.C.** MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.
15. THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF WATER LINES AND DRY UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL UTILITY RELOCATIONS CONSISTENT WITH THE CONTRACTORS SCHEDULE FOR THIS PROJECT, WHETHER SHOWN OR NOT SHOWN, AS IT RELATES TO THE CONSTRUCTION ACTIVITIES CONTEMPLATED IN THESE PLANS.
16. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF THE **SPOKANE COUNTY** ENGINEERING DEPARTMENT STANDARD DETAILS AND SPECIFICATIONS.
17. ALL CONSTRUCTION OPERATIONS, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTH MOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED EQUIPMENT SHALL GENERALLY BE LIMITED TO THE TIME PERIOD APPROVED BY **SPOKANE COUNTY.**

    BASED ON REQUIREMENTS FROM **SPOKANE COUNTY**, THE ENGINEER OR HIS DESIGNEE SHALL PERFORM MATERIALS TESTING AND QUALITY CONTROL ON THE PROJECT AND SHALL SUBMIT COPIES OF DAILY REPORTS, TEST REPORTS, PROJECT CERTIFICATION AND RECORD DRAWINGS TO THE **SPOKANE COUNTY** ENGINEER.
18. NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT APPROVAL OF THE **SPOKANE COUNTY** ENGINEERS AND NOTIFICATION OF THE ENGINEER OF RECORD.
19. ON-SITE GRADING SHALL BE IN ACCORDANCE WITH THE APPROVED **GRADING PLAN** AND **E.S.C.** PLAN. ANY IMPORT OR EXPORT OF MATERIAL SHALL BE FROM A PREAPPROVED SOURCE/DESTINATION AND COORDINATED WITH THE **SPOKANE COUNTY** DEPARTMENT OF BUILDING AND PLANNING AT **509-477-3675.** GRADING ON THIS SITE OR ANY OTHER SITE MUST COMPLY WITH ALL DEVELOPMENT REGULATIONS INCLUDING, BUT NOT LIMITED TO , GRADING PERMITS, S.E.P.A. REVIEW, TIMBER HARVEST PERMITS, CRITICAL AREAS, FLOOD PLAINS, DESIGNATED DRAINAGE WAYS, ETC.
20. THE CONTRACTOR IS CAUTIONED THAT IT IS THE UNDERSTANDING OF THE OWNER AND THE ENGINEER THAT SHOULD A CONFLICT OR DISCREPANCY IN THESE PLANS, SPECIFICATIONS, GENERAL NOTES OR PLANS ET.AL. DETERMINED TO BE PART OF THE OVERALL PROJECT, INCLUDING BUT NOT LIMITED TO THE ARCHITECTURAL PLANS, MECHANICAL PLANS, ELECTRICAL PLANS, LANDSCAPE PLANS, GENERAL SPECIAL PROVISIONS, ETC., THAT WITHOUT WRITTEN CLARIFICATION FROM THE ENGINEER, OWNER OR OTHER PROFESSIONAL, DURING THE BIDDING PROCESS, THAT IN ALL INSTANCES THE CONTRACTOR WILL BE REQUIRED TO BID THE HIGHER STANDARD. FAILURE TO DO SO MAY RESULT IN THE HIGHER STANDARD BEING REQUIRED BY THE OWNER, ENGINEER OR OTHER PROFESSIONAL WITH NO CHANGE IN VALUE TO THE CONTRACT VIA CHANGE ORDER OR OTHER MECHANISM.
21. CONSTRUCTION OF EVERY DRYWELL, INCLUDING FABRIC AND DRAINROCK, SHALL BE OBSERVED BY THE ON-SITE INSPECTOR TO CONFIRM THAT IT MEETS THE DESIGN DETAILS AND SPECIFICATIONS. DRYWELLS NOT OBSERVED SHALL HAVE THEIR PERFORMANCE VERIFIED BY A FULL-SCALE DRYWELL TEST.

NAVD - 88 DATUM

VERTICAL DATUM BASED ON FOUND TEMPORARY BENCH MARK LOACTED AT (GENERAL LOCATION) 2.4 MILES NORTH OF THE JUNCTION OF SR 395 AND SR 002 TBM = WSDOT BRASS DISK IN CONC. #GP32695-202 & 523.24 M-NAVD88 (CALCULATED 1716.67 FT)

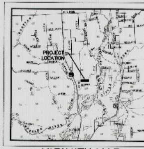


SWPPP COVER

SCALE: 1"=100'

GRAPHIC SCALE
100 0 50 100 200
(IN FEET)
1 inch = 100 ft.

N W E S



VICINITY MAP

INDEX TO PLAN SHEETS

C9.0	SWPPP/EROSION CONTROL COVER SHEET
C9.1	SWPPP NOTES

LEGEND

(dashed box)	STORM DRAINAGE POND – NO CONCRETE TRUCK WASHOUT AREA.
(line with square)	SILT FENCE – SEE DETAIL 1, SHEET C9.2 AND GENERAL NOTE 5, SHEET C9.1.
(stippled box)	ROCK CONSTRUCTION ENTRY. SEE DETAIL 2, SHEET C9.2 AND GENERAL NOTE 6, SHEET C9.1.
(circle)	SEDIMENT FILTER – SEE DETAIL 3, SHEET C9.3 AND GENERAL NOTE 4, SHEET C9.1.
(hatched box)	CONCRETE WASHOUT AREA– MAY ONLY TAKE PLACE ON UNCOMPACTED SUBGRADE AFTER ASPHALT REMOVAL, AND IN A NON-LANDSCAPED AREA. OTHERWISE ANY CONCRETE WASHOUT MUST BE OFF SITE. GENERAL NOTE 7, SHEET C9.1.
(dotted line)	LIMITS OF DISTURBANCE

SEWER
SPOKANE COUNTY
ENVIRONMENTAL SERVICES
1026 WEST BROADWAY AVENUE
PHONE: 509-477-7180
SPOKANE, WASHINGTON 99260
CONTACT: CHRIS KNUDSON

WATER
WHITWORTH WATER DISTRICT #2
10828 WAIKIKI ROAD
SPOKANE, WA 99218
PHONE: 509-466-0550
FAX: 509-467-1830
CONTACT: DOUG BABIN

FIRE
FIRE DISTRICT NO. 9
3801 EAST FARWELL ROAD
MEAD, WASHINGTON 99021
PHONE: 509-466-4602
FAX: 509-466-4698
CONTACT: DAN WALSH

STREETS
SPOKANE COUNTY ENGINEERS
1026 WEST BROADWAY AVENUE
SPOKANE, WASHINGTON 99260
PHONE: 509-477-3600
FAX: 509-477-7655
CONTACT: MATT ZARECORE, P.E.

ENGINEER
WHIPPLE CONSULTING ENGINEERS
21 S. PINES RD
SPOKANE VALLEY, WA 99206
PHONE: 509-893-2617
FAX: 509-926-0227
CONTACT: TODD R. WHIPPLE, P.E.

HEALTH
SPOKANE REGIONAL HEALTH
1101 WEST COLLEGE AVENUE
SPOKANE, WA 99260
PHONE: 509-324-1578
FAX: 509-324-3603
CONTACT: PAUL SAVAGE

GAS/POWER
AVISTA UTILITIES
1411 E. MISSION AVENUE
SPOKANE, WA 99220
PHONE: 509-495-2991
FAX: 509-495-8734
CONTACT: MIKE TRUEX

TELEPHONE
CENTURY LINK
904 NORTH COLUMBUS
SPOKANE, WA 99202
PHONE: 509-623-0307
FAX: 509-455-2104
CONTACT: TIM GREENWOOD

SURVEYOR-PRELIM
PAT MOORE AND ASSOCIATES, P.S.
1428 WEST MANSFIELD AVENUE
SPOKANE, WA 99205
PHONE: 509-328-1224
FAX: 509-328-3191
CONTACT: PAT J. MOORE, P.L.S.

OWNER
HANCOCK DEVELOPMENT
P.O. BOX 147
GREENACRES, WA 99016
PHONE: 509-951-4978
CONTACT: TRAVIS PASKE

CABLE
COMCAST BROADBAND
1717 EAST BUCKEYE
SPOKANE, WA 99207
PHONE: 509-755-4717
FAX: 509-755-4863
CONTACT: BRYAN RICHARDSON

SOLID WASTE
WASTE MANAGEMENT
SPOKANE, WASHINGTON
PHONE: 509-466-3400

SURVEY-CONST.
WHIPPLE CONSULTING ENGINEERS
21 S. PINES RD
SPOKANE VALLEY, WA 99206
PHONE: 509-893-2617
FAX: 509-926-0227
CONTACT: JON GORDON, P.L.S.

INSPECTION
I.P.E.C.
P.O. BOX 1566
VERADALE, WA 99037
PHONE: 209-6262
CONTACT: PAUL T. NELSON P.E.

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-2058
DATE ACCEPTED: 05-22-18
ACCEPTANCE EXPIRES: 05-22-20
PROJECTS LANE MILES: PUBLIC: .80
PROJECT LANE MILES PRIVATE: .02
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

SCALE:				
HORIZONTAL: 1" = 100'	PROJ #:	17-1762	X CIVIL	
VERTICAL: N/A	DATE:	05/21/18	STRUCTURAL	
	DRAWN:	BTT	SURVEYING	
	REVIEWED:	TRW	TRAFFIC / PLANNING / LANDSCAPE / OTHER	

WCE
WHIPPLE CONSULTING ENGINEERS
21 S. PINES RD.
SPOKANE VALLEY, WA 99206
PH 509 893 2617 FAX 509 926 0227

WINDSOR ESTATES EAST
SWPPP COVER SHEET
HATCH ROAD
SPOKANE COUNTY, WASHINGTON

SHEET C9.0
JOB NUMBER 17-1762

NE¼, SEC.29, T.27N., R.43E., W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

EROSION & SEDIMENT CONTROL

GENERAL NOTES AND INFORMATION

1. AN EROSION/SEDIMENT CONTROL **(E.S.C.)** PLAN IS REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE **E.S.C. PLAN**, AND CONSTRUCTION, MAINTENANCE, AND UPGRADING OF THE **E.S.C.** FACILITIES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY **SPOKANE COUNTY**, OR UNTIL VEGETATION IS ESTABLISHED THROUGHOUT THE SITE, AND ACCEPTED BY **SPOKANE COUNTY**, WHICHEVER IS LATER.
2. APPROVAL OF THE **E.S.C. PLAN** DOES NOT CONSTITUTE APPROVAL OF ANY OF THE PROPOSED ROAD, STORM DRAINAGE, GRADING OR UTILITY DESIGN ELEMENTS SHOWN ON THE **E.S.C. PLAN**.
3. THE EROSION/SEDIMENT CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. THE CONTRACTOR SHALL INSPECT AND MAINTAIN THESE **E.S.C.** MEASURES DAILY, AND SHALL MAINTAIN AND UPGRADE THESE MEASURES AS NECESSARY TO PREVENT SEDIMENT-LADEN WATER FROM EITHER FLOWING OFF SITE, OR INTO NEW/EXISTING STORM DRAINAGE FACILITIES, SUCH AS DRYWELLS, CULVERTS, OR GRAVEL GALLERIES.
4. GEOTEXTILE FABRIC IS TO BE PLACED ON THE RIMS, CATCH BASINS AND INLETS UNTIL SUCH TIME THAT THE VEGETATION ON THE SITE IS ESTABLISHED AND THE THREAT OF SEDIMENT DEPOSITION INTO THE DRAINAGE SYSTEM IS MITIGATED.
5. THE SILT FENCES SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO OTHER SITE WORK, AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ROCK CONSTRUCTION ENTRIES AT ANY AND ALL LOCATIONS USED TO ENTER OR EXIT THE PROJECT SITE. SEE DETAIL.
7. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNATING A LOCATION WHERE CONCRETE TRUCKS AND EQUIPMENT CAN BE WASHED OUT, NOT LOCATED NEAR OR DRAINING INTO A STORM DRAINAGE AREA.
8. PROPERTY OWNER: **HANCOCK DEVELOPEMENT**
PERMIT APPLICANT: **WHIPPLE CONSULTING ENGINEERS, 509-893-2617**
CONTACT PERSON ON SITE: **TBD**
9. PROJECT LOCATION: **IN SPOKANE COUNTY, WASHINGTON IN THE NE 1/4 OF SECTION 29, TOWNSHIP 27 N., RANGE 43 E. W.M.**
10. PROJECT DESCRIPTION: **THIS PROJECT CONSISTS OF A NEW 88-LOT RESIDENTIAL DEVELOPMENT ON APPROXIMATELY 17.7 ACRES. THE PROJECT WILL REQUIRE CONSTRUCTION OF NEW PAVING, WATER, SEWER AND STORM DRAINAGE FACILITIES.**
11. DESCRIPTION OF **E.S.C.** MEASURES: USE OF SILT FENCES AND SEDIMENTATION FILTERS. ALL **E.S.C.** MEASURES MENTIONED ABOVE ARE TEMPORARY AND WILL BE REMOVED AFTER SITE IS LANDSCAPED.
12. EXISTING VEGETATION: **VACANT LAND WITH GRASS AND WEED COVER**
13. PLAN PREPARATION DATE: **JULY 18TH, 2017**
14. SOILS: **BERNILL GRAVELLY SILT LOAM (BeB AND BkC), HAGEN LOAMY FINE SAND (HfC), HARDESTY SILT LOAM (HhA AND HmA), AND PEONE SILT LOAM (PeA).**
15. **STABILIZATION OF DENUDED AREAS:**
ANY DISTURBED AREAS, WHICH WOULD BE LEFT BARE FOR MORE THAN 7 DAYS AND ARE NOT INTENDED TO BE REWORKED WITHIN 30-45 DAYS SHALL BE SEEDED WITH A FAST STARTING NATIVE DRYLAND GRASS SUCH AS ANNUAL RYE, OR APPROVED EQUAL, AT A RATE OF 60 lbs/ACRE.
16. **CONTROL OF POLLUTANTS:**
ANY SPILLS WILL BE HANDLED ACCORDING TO **D.O.E. AND D.O.H.** GUIDELINES.
17. **LIMITS OF GRADING:**
DURING THE COURSE OF CONSTRUCTION, THE AMOUNT OF DISTURBED AREA SHALL BE KEPT TO A MINIMUM AND SHALL BE LIMITED TO THE AREA SHOWN AS "LIMITS OF GRADING" ON THIS SHEET OF THE EROSION CONTROL PLANS.

MAINTENANCE

1. **THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF THE TEMPORARY E.S.C.** MEASURES.
2. SEDIMENT BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RUNOFF-PRODUCING RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
3. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF FILTER FABRIC SHALL BE ACCOMPLISHED PROMPTLY.
4. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RUNOFF-PRODUCING RAINFALL. DEPOSITS MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY 1/2 THE HEIGHT OF THE BARRIER.
5. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE **E.S.C.** STRUCTURE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
6. ALL TEMPORARY AND PERMANENT **E.S.C.** PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.
7. ALL TEMPORARY **E.S.C.** MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMP'S ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING DIRT, MUD AND OTHER CONSTRUCTION DEBRIS WHICH MAY ACCUMULATE ON PAVED STREETS ADJACENT TO THE SITE AS A RESULT OF CONSTRUCTION ACTIVITY. CLEANING SHALL BE ON AN "AS NEEDED" BASIS USING SWEEPING AND WATER TO WASH THE CONSTRUCTION DEBRIS FROM THE STREET.
9. ON-SITE DUST CONTROL SHALL BE ACCOMPLISHED BY USING WATER. APPLICATIONS OF WATER MAY BE REQUIRED SEVERAL TIMES PER DAY DURING CONSTRUCTION ACTIVITY.

E.S.C. STANDARD PLAN NOTES FROM APPENDIX 9A OF THE SPOKANE REGIONAL STORMWATER MANUAL

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 INSTALL OF TEMPORARY **E.S.C.** BMP'S;

(B) INSTALL TEMPORARY **E.S.C.** BMPs, CONSTRUCTING SEDIMENT TRAPPING BMP'S 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 BMP'S, 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, U.I.C. FACILITIES, ETC.);

(H) PROTECT ALL PERMANENT STORMWATER FACILITIES UTILIZING THE APPROPRIATE BMP'S;

(I) INSTALL PERMANENT **E.S.C.** CONTROLS, WHEN APPLICABLE; AND,

(J) REMOVE TEMPORARY **E.S.C.** CONTROLS WHEN;

2. PERMANENT **E.S.C.** CONTROLS. WHEN APPLICABLE, HAVE BEEN COMPLETELY INSTALLED;
3. ALL LAND-DISTURBING ACTIVITIES THAT HAVE THE POTENTIAL TO CAUSE EROSION AND SEDIMENTATION PROBLEMS HAVE CEASED; AND,
4. VEGETATION HAS BEEN ESTABLISHED IN THE AREAS NOTED AS REQUIRING VEGETATION ON THE ACCEPTED **E.S.C.** 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 AND UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICAL.
10. INSPECT SEDIMENT CONTROL BMP'S 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 TO SEPTEMBER 30) AND WITHIN 5 DAYS DURING THE REGIONAL WET SEASON (OCTOBER 1 THRU JUNE 30). SOILS MUST BE STABILIZED AT THE END OF A SHIFT BEFORE A HOLIDAY WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. THE 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 FOR STORM EVENTS.
16. CONSTRUCT STORMWATER CONTROL FACILITIES (DETENTION/RETENTION STORAGE POND OR SWALES) BEFORE GRADING BEGINS. THESE FACILITIES SHALL BE OPERABLE 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 W.A.C. 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 SYSTEMS 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 RECONVENTION 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 EVENT) AND MAINTAIN ALL **EROSION AND SEDIMENT CONTROL** BMP'S TO ENSURE SUCCESSFUL PERFORMANCE OF THE BMP'S. NOTE THAT INLET PROTECTIONS DEVICES SHALL BE CLEANED OR REMOVED AND REPLACE BEFORE SIX INCHES OF SEDIMENT CAN ACCUMULATE.
22. REMOVE TEMPORARY **E.S.C.** BMP'S WITHIN 30 DAYS AFTER THE TEMPORARY BMP'S ARE NO LONGER NEEDED. PERMANENTLY STABILIZE AREA THAT ARE DISTURBED DURING REMOVAL PROCESS.

SRCAA GENERAL NOTES

1. DUST EMISSIONS DURING DEMOLITION, CONSTRUCTION, AND EXCAVATION PROJECTS MUST BE CONTROLLED. THIS MAY REQUIRE THE USE OF WATER SPRAYS, TARPS, SPRINKLERS, OR SUSPENSION OF ACTIVITY DURING CERTAIN WEATHER CONDITIONS.
2. MEASURES MUST BE TAKEN TO AVOID THE DEPOSITION OF DIRT AND MUD FROM UNPAVED SURFACES ONTO PAVED SURFACES. IF TRACKING OR SPILLS OCCUR ON PAVED SURFACES, MEASURES MUST BE TAKEN IMMEDIATELY TO CLEAN THESE SURFACES.
3. DEBRIS GENERATED, AS A RESULT OF THIS PROJECT, MUST BE DISPOSED OF BY MEANS OTHER THAN BURNING (I.E., CONSTRUCTION WASTE, VEGETATIVE WASTE, ECT.).
4. SPOKANE CLEAN AIR (SRCAA) STRONGLY RECOMMENDS THAT ALL TRAVELED SURFACES (I.E., INGRESS, EGRESS, PARKING AREAS, ACCESS ROADS, ECT.) BE PAVED AND KEPT CLEAN TO MINIMIZE DUST EMISSIONS.
5. IF OBJECTIONABLE ODORS RESULT FROM THIS PROJECT, EFFECTIVE CONTROL APPARATUS AND MEASURES MUST BE TAKEN TO REDUCE ODORS TO A MINIMUM.
6. SPECIAL ATTENTION SHOULD BE GIVEN TO PROPER MAINTENANCE OF DIESEL POWERED CONSTRUCTION EQUIPMENT TO REDUCE THE IMPACT OF DIESEL EXHAUST, A SUSPECTED CARCINOGEN.
7. A NOTICE OF CONSTRUCTION AND APPLICATION FOR APPROVAL IS REQUIRED TO BE SUBMITTED AND APPROVED BY SRCAA PRIOR TO THE CONSTRUCTION, INSTALLATION, OR ESTABLISHMENT OF AN AIR POLLUTION SOURCE. THIS INCLUDES EMERGENCY GENERATORS RATED AT 500 HP(375 KW) OR HIGHER, NATURAL GAS HEATING EQUIPMENT UNITS RATED AT FOUR MMBTU/HOUR OR HIGHER (INPUT), AND HEATING EQUIPMENT UNITS FIRED WITH OTHER FUELS (E.G., DIESEL) RATED AT ONE MMBTU/HOUR (INPUT) OR HIGHER. CONTACT SPOKANE CLEAN AIR (SRCAA) FOR A NOTICE OF CONSTRUCTION APPLICATION.
8. NOTICE OF INTENT MUST BE SUBMITTED TO SRCAA PRIOR TO ANY DEMOLITION PROJECT OR ASBESTOS PROJECT. AN ASBESTOS SURVEY MUST BE DONE BY AN HERA-ACCREDITED BUILDING INSPECTOR PRIOR TO THE DEMOLITION OR RENOVATION OF BUILDINGS TO DETERMINE IF ASBESTOS-CONTAINING MATERIAL IS PRESENT AT THE SITE. CONTACT SPOKANE CLEAN AIR (SRCAA) FOR A NOTICE OF INTENT APPLICATION.

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-2058
DATE ACCEPTED: 05-22-18
ACCEPTANCE EXPIRES: 05-22-20
PROJECTS LANE MILES: PUBLIC: .80
PROJECT LANE MILES PRIVATE: .02
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

TODD R. WHIPPLE, STATE OF WASHINGTON, 25402, REGISTERED PROFESSIONAL ENGINEER
5/21/18

NAVD - 88 DATUM
VERTICAL DATUM BASED ON FOUND TEMPORARY BENCH MARK LOCATED AT (GENERAL LOCATION) 3.4 MILES NORTH OF THE JUNCTION OF SR 395 AND SR 002 TBM - (WSDOT BRASS DISK IN CONC. #GP32306-232 & 523.24 M NAVD88 (CALCULATED 1716.7 FT)

SCALE:			
HORIZONTAL: N/A	PROJ #:	17-1762	X CIVIL
	DATE:	05/21/18	STRUCTURAL
VERTICAL: N/A	DRAWN:	CTR	SURVEYING / TRAFFIC / PLANNING
	REVIEWED:	TRW	LANDSCAPE / OTHER

WCE
WHIPPLE CONSULTING ENGINEERS
21 S. PINES RD.
SPOKANE VALLEY, WA 99206
PH 509-893-2617 FAX 509-926-0227

WINDSOR ESTATES EAST
SWPPP NOTES
HATCH ROAD
SPOKANE COUNTY, WASHINGTON

SHEET C9.1

JOB NUMBER 17-1762