SOUTHRIDGE P.U.D., PHASE ~~2B~~ 3

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1-800
424-5555
CALL TWO BUSINESS DAYS BEFORE YOU DIG

COVER SHEET
STREET AND DRAINAGE PLANS

SEC. 35, T.25 N., R.43 E.W.M.
SPOKANE COUNTY, WASHINGTON

RECORD DRAWING

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 **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.

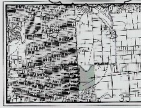
16. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF THE **SPOKANE COUNTY** ENGINEERING DEPARTMENT STANDARD DETAILS AND SPECIFICATIONS.

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.**

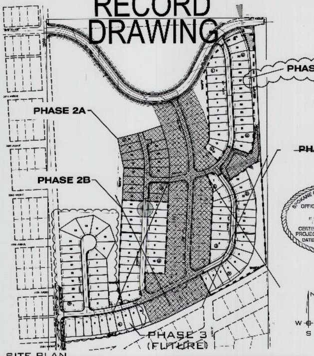
18. BASED ON REQUIREMENTS FROM **SPOKANE COUNTY,** THE ENGINEER OR HIS DESIGNEE SHALL PERFORM MATERIALS TESTING AND QUALITY CONTROL ON THE PROJECT AND SHALL SUBMIT COPIES OF DAILY REPORTS, TEST REPORTS, PROJECT CERTIFICATION AND RECORD DRAWINGS TO THE **SPOKANE COUNTY** ENGINEER.

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

20. 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.



VICINITY MAP



SITE PLAN
1" = 200'

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: P1938B
DATE ACCEPTED: 11/5/18

LEGEND

EXISTING	GENERAL	PROPOSED
	ROADWAY CENTER LINE	
	RIGHT OF WAY LINE	
	PROPERTY LINE	
	EASEMENT LINE	
	FENCE	
	CURB	
	PAVEMENT	
	GRAVEL	
	CONCRETE	
	BUILDINGS & STRUCTURES	
	MONUMENT	
	SANITARY SEWER	
	SANITARY SEWER	
	MANHOLE	
	CLEANOUT	
	SEWER SERVICE	
	WATER	
	WATER LINE	
	VALVE	
FH	FIRE HYDRANT	FH
	SERVICE	WS
	METER	
	BLOWOFF	BLOWOFF
AVRS	AIR VACUUM RELIEF STATION	AVRS
	STORM DRAINAGE	
	DRAINAGE LINE	
MH	MANHOLE	MH
DW	DRYWELL	DW
CB	CATCH BASIN	CB
	DITCH	
	NATURAL GAS	
G	GAS LINE	G
V	VALVE	V
GM	METER	GM
	TELEPHONE-POWER	
BT	BURIED TELEPHONE	BT
	POWER OR TELEPHONE POLE	
BP	BURIED POWER	BP
	TRANSFORMER PAD	TP
	TELEPHONE RISER	TR
T	TELEPHONE VAULT	TV T
OP	OVERHEAD POWER	OH
GA	GUY ANCHOR	GA
PV P	POWER VAULT	P PV
	LIGHT POLE	LP

PHASE 2B BOUNDARY

PHASE 1 AND 2A

ABBREVIATIONS

ACT. LEN.	ACTUAL LENGTH	GB	GRADE BREAK	PRC	POINT OF REVERSE CURVE
BCR	BEGINNING OF CURVE RADIUS	FT./FT.	FEET PER FOOT	PT	POINT OF TANGENCY
BDRY.	BOUNDARY	HYD.	HYDRANT	RIM EL.	RIM ELEVATION
CO.	SEWER CLEANOUT	I.E.	INVERT ELEVATION	RD	ROAD
CSTC	CRUSHED SURFACE TOP COURSE	LN.	LANE	RT.	RIGHT
CT.	COURT	LT.	LEFT	SI	STREET INTERSECTION
DIA.	DIAMETER	MH	MANHOLE	SS	SANITARY SEWER
ECR	END OF CURVE RADIUS	MCR	MIDDLE OF CURVE RADIUS	STA.	STATION
EXIST.	EXISTING	PC	POINT OF CURVATURE	STA. LEN	STATION LENGTH
G	GRADE	PET.	PETROLEUM	TG	TOP OF GRATE
		PI	POINT OF INTERSECTION	TC	TOP OF CURB

STREETS
SPOKANE COUNTY ENGINEERS
1026 WEST BROADWAY AVENUE
SPOKANE, WASHINGTON 99260
PHONE: 509-477-3600
FAX: 509-477-7478
CONTACT: MATT ZARECOR, P.E.

TELEPHONE
QWEST
904 NORTH COLUMBUS
SPOKANE, WASHINGTON, 99202
PHONE: 509-455-2580
FAX: 509-455-2104
CONTACT: DAVE CLARK

ENGINEER
WHIPPLE CONSULTING ENGINEERS
2528 NORTH SULLIVAN ROAD
SPOKANE VALLEY, WA 99216
PHONE: 509-893-2617
FAX: 509-926-0227
CONTACT: TODD R. WHIPPLE, P.E.

SEWER
CITY OF SPOKANE
808 W. SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201
PHONE: 509-625-6300
FAX: 509-625-6700
CONTACT: KRIS BECKER, P.E.

NATURAL GAS
AVISTA UTILITIES
1411 EAST MISSION AVENUE
SPOKANE, WA 99220
PHONE: 509-495-8010
FAX: 509-495-8713
CONTACT: NICOLA BROBRICK

SOLID WASTE
WASTE MANAGEMENT
PHONE: 509-466-3400

WATER PURVEYOR
CITY OF SPOKANE
914 N. FOOTHILLS
SPOKANE, WASHINGTON 99207
PHONE: 509-625-7800
FAX: 509-625-7816
CONTACT: CHRIS PETERSCHMIDT, P.E.

SURVEYOR
CLIFF CAMERON
P.O. BOX 841
COLBERT, WASHINGTON 99005
PHONE: 509-467-0148
CONTACT: CLIFFORD E. CAMERON, P.L.S.

OWNER
LANZCE DOUGLASS, INC
1402 E. MAGNESIUM ROAD
SPOKANE, WA 99217
PHONE: 509-483-4966
FAX: 509-483-6532
CONTACT: LANZCE DOUGLASS

INSPECTION/STREETS
~~ALLWEST~~ IPEC
~~EAST 12928 INDIANA AVENUE~~
~~SPOKANE VALLEY, WA 99216~~
~~PHONE: 509-534-4411~~
~~FAX: 509-534-9328~~
CONTACT: PAUL T. NELSON, P.E.
509-209-6262

CABLE
COMCAST BROADBAND
1717 EAST BUCKEYE
SPOKANE, WASHINGTON, 99207
PHONE: 509-755-4714
FAX: 509-483-9261
CONTACT: BRYAN RICHARDSON

FIRE DEPARTMENT
FIRE DISTRICT NO. 8
12100 E. PALOUSE HIGHWAY
VALLEYFORD, WA 99036
PHONE: 509-926-6899
FAX: 509-924-8358
CONTACT: LONNIE RASH

POWER
AVISTA UTILITIES
1411 EAST MISSION AVENUE
SPOKANE, WA 99220
PHONE: 509-495-4889
FAX: 509-777-5238
CONTACT: KELLY DONAHUE

INDEX TO PLAN SHEETS

SHEET NO. 1 COVER
SHEET NO. 2 GRADING PLAN
~~SHEET NO. 3 GRADING PLAN~~ (2)
SHEET NO. 4 DETAILS & INTERSECTION PLANS
~~SHEET NO. 5 DEARBORN LANE~~ (2)
SHEET NO. 6 CUSTER LANE
~~SHEET NO. 7 CUSTER LANE~~
SHEET NO. 8 29TH AVENUE
SHEET NO. 9 29TH AVENUE
~~SHEET NO. 10 29TH AVENUE - STRIPING PLAN~~ (2)
~~SHEET NO. 11 29TH AVENUE - STRIPING PLAN~~ (2)
SHEET NO. 12 POND DETAILS
~~SHEET NO. 13 EROSION CONTROL PLAN~~ (2)
~~SHEET NO. 14 EROSION CONTROL DETAILS~~ (2)

THESE PLANS FOR SOUTHRIDGE PHASE 2 (P1938A) ARE BEING RE-APPROVED FOR THE CONSTRUCTION OF PHASE 2B, SOUTHRIDGE P.U.D.–1ST ADDITION AS A PHASE OF THE OVERALL SOUTHRIDGE PHASE 2

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.

PAUL T NELSON
STATE OF WASHINGTON
37226
REGISTERED
PROFESSIONAL ENGINEER
10-22-18

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

TODD R. WHIPPLE
STATE OF WASHINGTON
25462
REGISTERED
PROFESSIONAL ENGINEER

P-1938

COUNTY DATUM
MONUMENT ID NO. 3364, HWY 306,
MC 167.35 GBM NO. GP30295-201
ELEVATION = 1748.382
SPIKE AT C/L OF HAVANA STREET AND 29TH AVENUE
ELEVATION = 2289.606

DEVELOPER'S APPROVAL

DATE

NO	DATE	BY	REVISIONS
2	10/2018		RECORD DRAWING BY INLAND PACIFIC ENGINEERING PHASE 3
1	12/2017		RECORD DRAWING BY INLAND PACIFIC ENGINEERING PHASE 2B
	09/29	JJK	FINAL PLAN SUBMITTAL
	08/30	RLM	ORIGINAL PLAN PREPARATION

SCALE:
HORIZONTAL: AS SHOWN
VERTICAL: N.A.

PROJ #: 2005-175
DATE: 09/29/08
DRAWN: MEK
APPROVED: TRW

WCE
WHIPPLE CONSULTING ENGINEERS
CIVIL AND TRANSPORTATION ENGINEERING
2528 NORTH SULLIVAN ROAD
SPOKANE VALLEY, WA 99216
PH. 509 893 2617 FAX 509-926-0227

STREET AND DRAINAGE PLANS
SOUTHRIDGE P.U.D PHASE 2B
COVER SHEET
HAVANA STREET AND 29TH. AVENUE
SPOKANE COUNTY, WASHINGTON

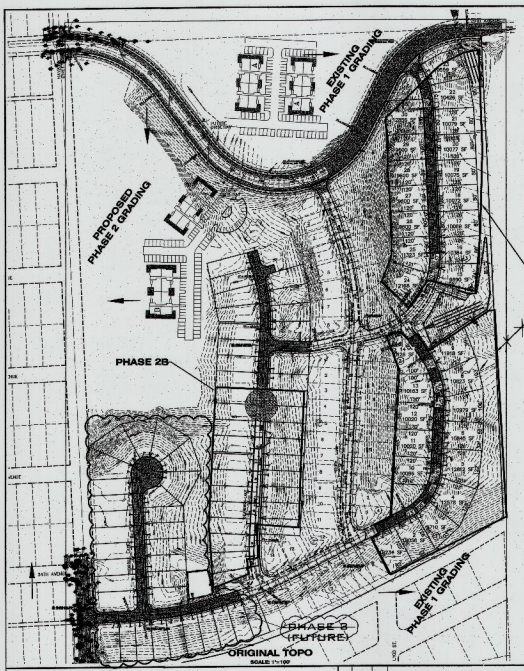
SHEET 1 OF 14

JOB NUMBER 2005-175

SECTION 35, T. 25 N., R. 43 E., W.M.

RECORD DRAWING

UNDERGROUND SERVICE ALERT
DIG-CALL BEFORE
1-800
424-5555
NOT INCLUDED WITHIN
REPORT THIS SITE



"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT # 2-7348
DATE ACCEPTED: 10/2/18

I HAVE REVIEWED THE CONSTRUCTION AND TO MY KNOWLEDGE AND BELIEF, IS SUBSTANTIAL CONFORMANCE WITH THE APPROVED CERTIFIED PLANS AND STANDARD SPECIFICATIONS ACCEPTED.

SPOKANE COUNTY PUBLIC WORKS
CERTIFIED RECORD DRAWING
CONSTRUCTION PLANS
PROJECT NAME: SOUTHRIDGE P.U.D PHASE 2B
DATE ACCEPTED: 08-27-19
ACCEPTANCE EXPIRES: 08-27-19
PROJECTS LANE MILES: PUBLIC 0
PROJECT LANE MILES: PRIVATE 0
THIS DRAWING IS A RECORD DRAWING OF THE DESIGN ENGINEER. THE ENGINEER HAS REVIEWED AND ACCEPTED THE CHANGES SHOWN HEREON AS TO THE BEST OF HIS KNOWLEDGE AND BELIEF. THE DESIGN ENGINEER DOES NOT WARRANT THE ACCURACY OF THE INFORMATION SHOWN.
DESIGN ENGINEER: WILLIAM R. WOLF
DATE: 8/27/19

P-1936

COUNTY DATUM
MONUMENT 01NO 3384, 1977 (W)
NG NO 26, (TB) NO. 3P8889-3M
ELEVATION = 1948.00
NGS NO. 26 (TB) NO. 3P8889-3M
ADJ 2014 (NAVD88)
ELEVATION=2238.00

DEVELOPER'S APPROVAL DATE

NO.	DATE	BY	REVISIONS
	08/30	JJK	FINAL PLAN SUBMITTAL
	06/30	RLM	ORIGINAL PLAN PREPARATION

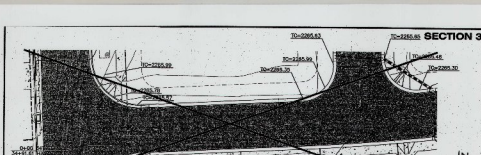
SCALE:
HORIZONTAL: 1"=100'
VERTICAL: N.A.

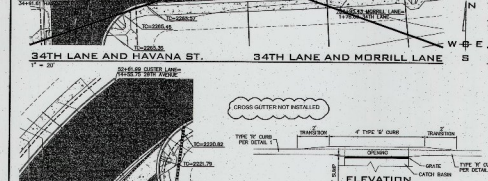
PROJ #: 2005-175
DATE: 10/25/06
DRAWN: MGK
APPROVED: TRW

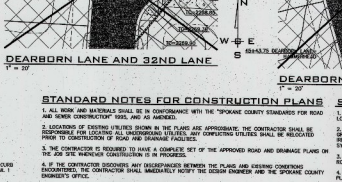
WCE
WOLF CONSULTING ENGINEERS
CIVIL AND TRANSPORTATION ENGINEERING
1115 N. MOHAWK, SUITE 1, 99201
SPOKANE COUNTY, WA 99206
(509) 924-9600 FAX (509) 924-9610

STREET AND DRAINAGE PLANS
SOUTHRIDGE P.U.D PHASE 2B
GRADING PLAN
HAVANA STREET AND 29TH AVENUE
SPOKANE COUNTY, WASHINGTON

SHEET
2 OF 14
JOB NUMBER
2005-175







UNDERGROUND SERVICE ALERT
1-800-424-5555

RECORD DRAWING

STANDARD NOTES FOR CONSTRUCTION PLANS

1. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION" 1995, AND AS AMENDED.

2. LOCATIONS OF EXISTING UTILITIES SHOWN ON 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.

3. 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.

4. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER AND THE SPOKANE COUNTY ENGINEER'S OFFICE.

5. FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC (AMOCO 4545 OR APPROVED EQUIVALENT) BETWEEN THE DRYWELL BARREL AND THE WASHED GRAVEL/ROCK, AND BETWEEN THE WASHED GRAVEL/ROCK AND THE NATIVE SOIL.

6. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 455-3000 BEFORE YOU DIG.

7. FOR ANY CURB GRADES LESS THAN 0.6% (LESS THAN 0.6FT/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.

8. THE CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR 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 GRADE OF THE CROSS-GUTTER.

9. THE FLOOR OF A GRASSED PERCOLATION AREA (GPA) SHALL INCLUDE THE LEVEL PORTION OF THE FLOOR OF THE SWALE, AND THE SIDESLOPES OF THE SWALE UP TO THE GPA OVERFLOW ELEVATION OR TOP OF DRYWELL. THE SOIL LOCATED IN THE FLOOR OF THE GPA SWALE SHALL BE A MEDIUM TO MELLOWMANNING MATERIAL WITH A MINIMUM PERCOLATION RATE OF 0.5 INCHES PER HOUR. A WRITTEN STATEMENT HAS BEEN SUBMITTED TO THE SPOKANE COUNTY ENGINEER'S OFFICE PRIOR TO INSTALLING FINISHED LANDSCAPING, SOD AND PRIOR TO FINAL ACCEPTANCE, THE SWALE FLOOR MATERIAL SHALL BE INSTALLED TO A NATIVE SOIL STRATUM WHICH ALSO MEETS OR EXCEEDS THIS MINIMUM PERCOLATION RATE OF 0.5 INCHES PER HOUR.

STORM DRAINAGE NOTES

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

2. SWALES SHALL BE CONSTRUCTED FOR THE SUBDIVISION OF SUFFICIENT SIZE TO INCLUDE EXCAVATION, GRADING, SOD, AND DRYWELL INSTALLATION. ALL SWALES WITHIN SHORT PLATS SHALL INCLUDE AN IRRIGATION SYSTEM. ALL IRRIGATION SWALE CONFORM TO **SPOKANE COUNTY** SWALE IRRIGATION SYSTEM GUIDELINES.

3. ALL "ZOD" SWALES SHOWN SHALL BE ROUGH GRADED PRIOR TO PAVING OF ADJACENT ROADWAY.

4. CONTRACTOR SHALL PROVIDE **SPOKANE COUNTY** WITH RECORD DRAWINGS OF IRRIGATION PLANS UPON COMPLETION OF ALL SWALE CONSTRUCTION.

5. INSTALL "AMOCO" #4545 FILTER FABRIC (OR APPROVED EQUAL) IN ALL DRYWELLS. SEE **SPOKANE COUNTY** STANDARDS (2001 EDITION) BETWEEN NATIVE SOIL AND GRAVEL BACKFILL, SHEET B-1a FOR INSTALLATION LOCATIONS.

6. ALL SWALES WITHIN THE COUNTY RIGHT-OF-WAY, IN THE AREA ASSOCIATED WITH THIS PROJECT, SHALL BE COMPLETED DURING THE CONSTRUCTION OF THE ROADWAY. THE CONTRACTOR SHALL PERFORM THE SWALE GRADE WORK, INSTALL THE IRRIGATION SYSTEM, AND PLACE THE SOD WITHIN THE SWALES 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 THE FIRST LIFT. IN THE EVENT THAT THE DRAINAGE STRUCTURE IS CONTAMINATED DURING CONSTRUCTION, THE CONTRACTOR SHALL REMOVE OTHER MATERIALS, IF ALLOWED BY THE DRYWELL OR CATCH BASIN OUT TO THE SATISFACTION OF THE CONSTRUCTION ENGINEER. THE DRYWELL OR CATCH BASIN OUT TO THE SATISFACTION OF THE CONSTRUCTION ENGINEER.

8. ALL LANDSCAPE AREAS ("ZOW" SWALES) ARE TO BE IRRIGATED BY AN AUTOMATIC IRRIGATION SYSTEM INSTALLED BY OR UNDER THE DIRECTION OF THE LANDSCAPE CONTRACTOR. THE IRRIGATION SYSTEM SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES (NO DAY GUARANTEE). AN APPROVED BACKFLOW DEVICE SHALL BE INSTALLED TO PREVENT WATER FROM GOING BACK INTO THE WATER SUPPLY, CURBING, PAVING, ETC.

SLEEVING: PROVIDE AND SLEEVING AS REQUIRED UNDER SIDEWALKS, CURBS, ETC. NEEDED FOR IRRIGATION ACCESS. ALL SLEEVING TO BE 4" PVC WITH AT LEAST 12" OF COVER (3 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. ZEST SYSTEM BEFORE BACKFILLING, ETC. TO PROVIDE UNIFORM

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

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

9. THE FLOOR OF A GRASSED PERCOLATION AREA (GPA) SHALL INCLUDE THE LEVEL PORTION OF THE FLOOR OF THE SWALE, AND THE SIDE SLOPES OF THE SWALE UP TO THE G.P.A. OVERFLOW ELEVATION OR TOP OF DRYWELL. THE SOIL LOCATED IN THE FLOOR OF THE G.P.A. SWALE SHALL BE A MEDIUM TO MELLOWMANNING MATERIAL WITH A MINIMUM PERCOLATION RATE OF 0.5 INCHES PER HOUR. A WRITTEN STATEMENT HAS BEEN SUBMITTED TO THE **SPOKANE COUNTY** ENGINEER'S OFFICE PRIOR TO INSTALLING FINISHED LANDSCAPING, SOD AND PRIOR TO FINAL ACCEPTANCE, THE SWALE FLOOR MATERIAL SHALL BE INSTALLED TO A NATIVE SOIL STRATUM WHICH ALSO MEETS OR EXCEEDS THIS MINIMUM PERCOLATION RATE OF 0.5 INCHES PER HOUR.

OFFICIAL PLAN/DOCUMENT ORIGINAL
"AS-BUILTS"
CERTIFIED REPRESENTATIVE
DATE ACCEPTED: 11/17/16

I HAVE REVIEWED THE CONSTRUCTION AND TOWN KNOWLEDGE THEIR TO BE IT SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS AND STANDARDS OPERATION TOWN EXCEPTS AS NOTED.

11-23-16

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PLAN/DOCUMENT ORIGINAL
CONTRACT PLANS
APPROVED: 02-07-17
EXPIRES: 02-07-19
ACCEPTANCE EXPIRES: 02-07-19
PROJECTS LANE MILES: PUBLIC: 0.0
PROJECT LANE MILES: PRIVATE: 0.0
CONSTRUCTION INSPECTIONS ARE REQUIRED FOR ALL PUBLIC IMPROVEMENTS. ALL PUBLIC IMPROVEMENTS TO BE ACCEPTED BY SPOKANE COUNTY PUBLIC WORKS. ALL PRIVATE IMPROVEMENTS TO BE INSPECTED BY PRIVATE INSPECTOR AND CERTIFIED.
PRINT NAME: STEVEN J. KESSLER
SIGNATURE: [signature]

P-1938

COUNTY DATUM
HORIZONTAL: NAD 83/91, STATE PLANE, NORTH ZONE, NAD 83/91 GRID COORDINATES
ELEVATION - NAVD88
SPINET AT CITY OF HAVANA STREET
(NED 2475, 2475NED)
ELEVATION = 1789.000

DEVELOPERS APPROVAL DATE

NO.	DATE	BY	REVISIONS
	05/09	J.K.	FINAL PLAN SUBMITTAL
	08/05	SJK	FINAL ORIGINAL PLAN PREPARATION

SCALE:	
HORIZONTAL:	AS SHOWN
VERTICAL:	N.A.
PROJ #:	2005-175
DATE:	08/08/08
DRAWN:	MBK
APPROVED:	TRW

WCE
WILSON CONSULTING ENGINEERS
CIVIL ENGINEERS • LAND SURVEYORS
1103 W. PACIFIC AVENUE
SPOKANE WILLIS, WA. 99201
SUBSTATION: 509-327-7063 FAX: 509-327-0977

STREET AND DRAINAGE PLANS
SOUTHRIDGE P.U.D PHASE 2B
DETAILS & INTERSECTION PLANS
HAVANA STREET AND 29TH. AVENUE
SPOKANE COUNTY, WASHINGTON

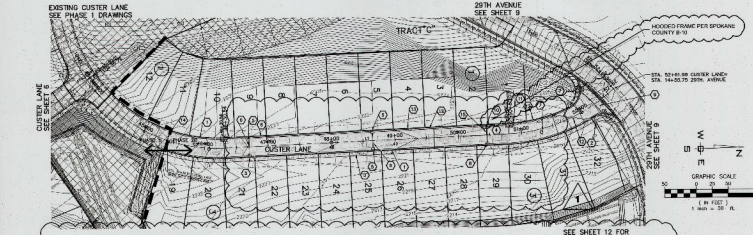
SHEET
4 of 14

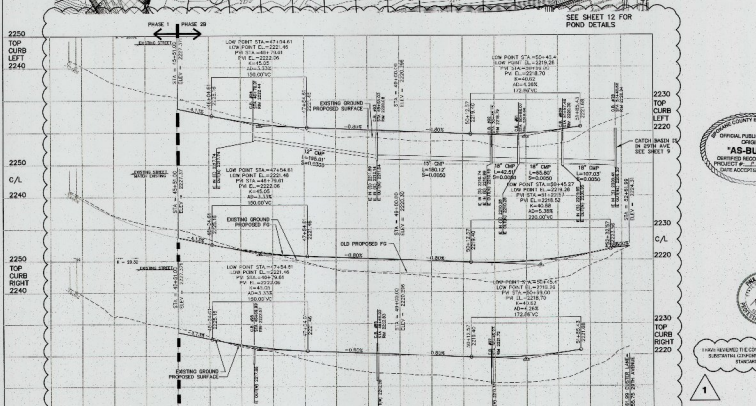
JOB NUMBER
2005-175

RECORD DRAWING

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1-800-424-5555
CALL TWO WORKING DAYS BEFORE YOU DIG

SECTION 35, T. 25 N., R. 43 E., W.M.





CONSTRUCTION NOTES

1. PROVIDE AND INSTALL TYPE 2 CURB PER DETAIL 1, SHEET 3.
2. PROVIDE AND INSTALL STREET SIGN PER SPOKANE COUNTY STANDARD PLAN A-16.
3. PROVIDE AND INSTALL 6' CONCRETE SIDEWALK PER SPOKANE COUNTY STANDARD PLAN A-1.
4. PROVIDE AND INSTALL ASPHALT PAVEMENT PER SPOKANE COUNTY STANDARDS AND DETAIL 4 SHEET 3.
5. PROVIDE AND INSTALL TYPE 1 CATCH BASIN WITH TYPE 1 FRAME AND TYPE 1 GRATE PER SPOKANE COUNTY STANDARD PLAN B-4, B-10, AND B-12. SEE PROFILE FOR STATION, OFFSET, AND ELEVATION INFORMATION.
6. PROVIDE AND INSTALL 12" DIAP STORM PIPE PER SPOKANE COUNTY STANDARDS. SEE PROFILE FOR LENGTH AND SLOPE.
7. ADJUST EXISTING SEWER MANHOLE RIMS FROM PHASE 1 TO MATCH PROPOSED GRADE.
8. PROVIDE AND INSTALL TYPE 1 CATCH BASIN WITH TYPE 3 FRAME AND HOOD, AND TYPE 3 GRATE PER SPOKANE COUNTY STANDARD PLAN B-4, B-11, AND B-14. SEE PROFILE FOR STATION, OFFSET, AND ELEVATION INFORMATION.
9. PROVIDE AND INSTALL TYPE 2 CROSS-GUTTER PER SPOKANE COUNTY STANDARD PLAN B-18.
10. PROVIDE AND INSTALL W.S.D.O.T. 48" TYPE 2 CATCH BASIN PER W.S.D.O.T. STANDARD PLAN B-10.20-01 WITH METAL FRAME, TYPE 1 GRATE, AND HOOD, AND TYPE 3 GRATE PER SPOKANE COUNTY STANDARD PLAN B-11 AND B-14. SEE PROFILE FOR STATION, OFFSET AND ELEVATION INFORMATION.
11. PROVIDE AND INSTALL W.S.D.O.T. 48" TYPE 2 CATCH BASIN PER W.S.D.O.T. STANDARD PLAN B-10.20-01 WITH METAL FRAME, TYPE 1 GRATE PER SPOKANE COUNTY STANDARD PLAN B-10, AND B-12. SEE PROFILE FOR STATION, OFFSET AND ELEVATION INFORMATION.
12. PROVIDE AND INSTALL 18" DIAP STORM PIPE PER SPOKANE COUNTY STANDARDS. SEE PROFILE FOR LENGTH AND SLOPE.
13. PROVIDE AND INSTALL 15" DIAP. STORM PIPE PER SPOKANE COUNTY STANDARDS. SEE PROFILE FOR LENGTH AND SLOPE.
14. SAWCUT, TACK AND MATCH EXISTING ASPHALT PER SPOKANE COUNTY STANDARDS.

OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT # P-1936
DATE ACCEPTED 3/29/17

LINE TABLE		
LINE	LENGTH	BEARING
L1	449.53	N 2°49'55" W

CURVE TABLE					
CURVE	LENGTH	RADIUS	TANGENT	CHORD	DELTA
C1	174.00	188.00	93.85	168.14	60°27.0°
C2	166.49	250.00	86.47	163.41	38°9.3°
C3	90.62	250.00	45.81	90.13	20°46.7°
C4	191.43	60.00	54.80	118.39	182°47.0°
C5	83.55	30.00	56.85	52.32	160°35.2°
C6	46.03	30.00	29.51	41.65	87°50.1°

PLAN REVIEWED FOR PRIVATE ASPHALT PROPOSED PVM

3-22-18

I HAVE REVIEWED THE CONSTRUCTION AND TOWN IMPROVEMENTS PROPOSED TO BE IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED CONSTRUCTION PLANS AND STANDARD SPOKANE COUNTY EXCEPT AS NOTED.

1

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT
DATE ACCEPTED
PROJECT ENGINEER
PROJECTS LANE MANAGER PUBLIC
PROJECT LANE MANAGER NOTES
CONSTRUCTION SUPERVISOR ALL DETAILS
CONSTRUCTION PLANS ARE ON FILE IN THE PUBLIC WORKS DEPARTMENT. THE CONTRACTOR IS RESPONSIBLE FOR THE ACCURACY OF THE PLANS AND MUST REPORT ANY ERRORS AND OMISSIONS
SEAL
SHEET DRAWN SHOWN & DESIGNED BY
SHEET CHECKED BY

7B

3/29/17

P-1936

COUNTY DATUM
NORTHEAST 12 NO. 2304 PART 1985
ELEV. 2250.00 NAVD 88 ELEV. 2252.66 SGV
ELEVATION = 1746.242
SPIKE AT CL OF HAWKINS STREET
AND 18TH AVENUE
ELEVATION =2249.906

DEVELOPERS APPROVAL DATE

NO.	DATE	BY	REVISIONS
1	3/21/17	JPP	PROFILE GRADE CHANGE
	08/09	JJK	FINAL PLAN SUBMITTAL
	09/09	NLM	ORIGINAL PLAN PREPARATION

SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

PROJ #: 2005-175
DATE: 09/09/08
DRAWN: MEK
APPROVED: TRW

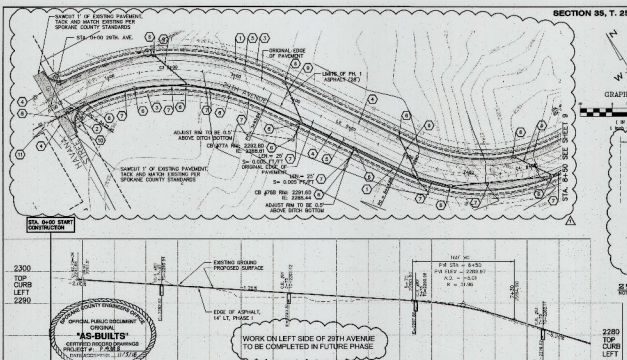
WCE
WILPER ENGINEERING COMPANIES
STEL AND SPOKANE COUNTY ENGINEERING
3000 NORTH MAIN, SPOKANE WA
PHONE (509) 467-9611 FAX 9600
FIELD OFFICE (509) 922-2800 FAX 2800

STREET AND DRAINAGE PLANS
SOUTHRIDGE P.U.D PHASE 2B
CUSTER LANE STA. 45+39.52 TO STA. 52+61.89
SPOKANE COUNTY, WASHINGTON

SHEET 7 OF 14
JOB NUMBER 2005-175

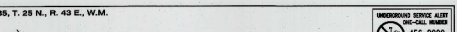
SECTION 35, T. 25 N., R. 43 E., W.M.

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

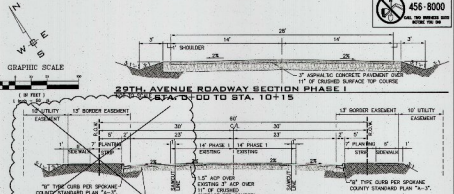


GRAPHIC SCALE

(IN FEET)
1 INCH = 5'

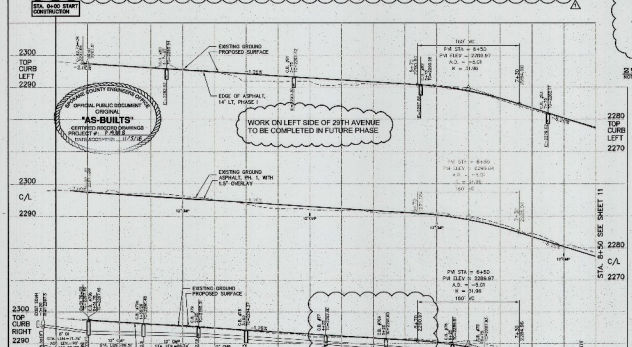


29TH AVENUE ROADWAY SECTION PHASE I
STA. 0+00 TO STA. 10+15



29TH AVENUE ROADWAY SECTION PHASE II
STA. 0+00 TO STA. 10+15

RECORD DRAWING



LINE TABLE		
LINE	LENGTH	BEARING
L1	2.52	N 38°12'17" E
L2	2.52	S 37°13'10" E

CURVE TABLE						
CURVE	LENGTH	RADIUS	TANGENT	CHORD	DELTA
C1	49.59	30.00	33.0	44.40	95°32'36"
C2	49.02	30.00	27.96	40.81	93°52'41"
C3	343.94	356.10	184.53	328.81	54°33'00"
C4	378.34	386.49	405.01	465.01	112°30'00"

29TH. AVENUE AND HAVANA STREET
P-30

CONSTRUCTION NOTES

1. PROVIDE AND INSTALL TYPE B TYPE CURB PER SPOKANE COUNTY STANDARDS.
2. PROVIDE AND INSTALL DESIGN B CURB RAMP PER SPOKANE COUNTY STANDARD PLAN A-5.
3. PROVIDE AND INSTALL 4" CONCRETE SIDEWALK PER SPOKANE COUNTY STANDARD PLAN A-1.
4. SAWCUT, TACK AND MATCH EXISTING ASPHALT PER SPOKANE COUNTY STANDARDS.
5. PROVIDE AND INSTALL ASPHALT PAVEMENT PER SPOKANE COUNTY STANDARDS AND SECTION THIS SHEET.
6. PROVIDE AND INSTALL TYPE I CATCH BASIN, TYPE I METAL FRAME AND TYPE I GRATE PER CITY OF SPOKANE COUNTY STANDARD PLAN B-4, B-10, AND B-12 SEE PROFILE FOR STATION AND ELEVATION INFORMATION.
7. PROVIDE AND INSTALL 12" CMP STORM PIPE PER SPOKANE COUNTY STANDARDS SEE PROFILE FOR LENGTH AND SLOPE.
8. REMOVE EXISTING 8" STORM DRAIN PIPE.
9. PROVIDE AND INSTALL 12" D.I. STORM PIPE PER SPOKANE COUNTY STANDARDS.
10. PROVIDE AND INSTALL 8" D.I. STORM PIPE PER SPOKANE COUNTY STANDARDS. SEE PROFILE FOR LENGTH AND SLOPE.
11. CONNECT TO EXISTING SOIAL SEE STATION & ELEVATION INFORMATION. VERIFY DEPTH AND LOCATION PRIOR TO ANY CONSTRUCTION.

I HAVE REVIEWED THE CONSTRUCTION AND SURVEY TOLERANCES (PER WAC 332-130-090) SUBSTANTIAL CONFORMANCE WITH THE APPROVED CERTIFIED PLANS AND STANDARD SPECIFICATIONS EXCEPT AS NOTED.

JAN 25 '06

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #
DATE ACCEPTED
PROJECT ENGINEER
PROJECT LANE MILES PUBLIC
PROJECT LANE MILES PRIVATE
CONSTRUCTION SUPERVISION AND VERIFICATION OF COMPLIANCE WITH THE APPROVED PLANS AND SPECIFICATIONS IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD. THE ENGINEER OF RECORD MUST SIGN AND SEAL THE PLANS.
WEST PLAINS ENGINEER & SURVEY
PO BOX 1486 SPOKANE WA 99210
PH 509-838-6127 FAX 509-927-9677

8B

NAVD-88 DATUM
MONUMENT C NO. 2201, RNV 395
NP 497.36, ORTHO. NP 5280.80
ELEVATION = 1.19.90
NGVD 29 DATUM = 2.00 FT. (RAINA)
STREET AND CURB: ASPHALT
LL(X)1076-2,206.306

DEVELOPERS APPROVAL DATE

NO	DATE	BY	REVISIONS
1	04/10	JPP	REVISION 1 - WETLAND CB ADJUSTMENT
	06/09	LJK	FINAL PLAN SUBMITTAL
	08/05	RLM	ORIGINAL PLAN PREPARATION

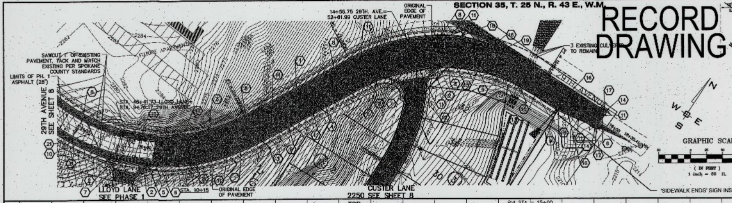
SCALE:
HORIZONTAL: 1"= 20'
VERTICAL: 1"=10'

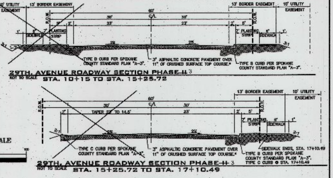
PROJ #: 2005-175
DATE: 08/08/05
DRAWN: MEK
APPROVED: TRW

WCE
WESTFIELD CONSULTING ENGINEERS
DALAND I WESTFIELD & ASSOCIATES INC.
PO BOX 1486 SPOKANE WA 99210
STREET ADDRESS: 1908 WEST FOURTH AVENUE
PH 509-838-6127 FAX 509-927-9677

STREET AND DRAINAGE PLANS
SOUTHRIDGE PUD, PHASE 2B
29TH. AVENUE STA. 0+00 TO STA. 8+50
SPOKANE COUNTY, WASHINGTON

SHEET
8 OF 14
JOB NUMBER
2005-175





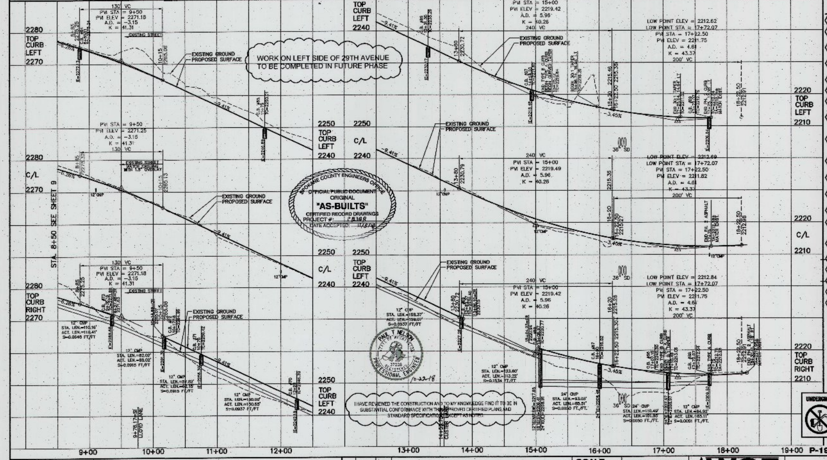
NOTES:
1) NEW ASPHALT TO BE INSTALLED AFTER DRAINAGE STRUCTURES.

CONSTRUCTION NOTES

1. PROVIDE AND INSTALL TYPE B CURB PER SPOKANE COUNTY STANDARDS.
2. PROVIDE AND INSTALL DESIGN A CURB RAMP PER SPOKANE COUNTY STANDARD PLAN A-5.
3. PROVIDE AND INSTALL 6' CONCRETE SIDEWALK PER SPOKANE COUNTY STANDARD PLAN A-1.
4. PROVIDE AND INSTALL ASPHALT PAVEMENT PER SPOKANE COUNTY STANDARDS AND SECTION THIS SHEET.
5. REMOVE EXISTING 12" CMP CULVERT.
6. SAWCUT, TACK AND MATCH EXISTING ASPHALT PER SPOKANE COUNTY STANDARDS.
7. PROVIDE AND INSTALL TYPE 2 CROSS-GUTTER PER SPOKANE COUNTY STANDARD PLAN B-18.
8. PROVIDE AND INSTALL TYPE 1 CATCH BASIN, TYPE 1 METAL FRAME AND TYPE 1 GRATE PER SPOKANE COUNTY STANDARD PLAN B-4, B-10, AND B-12 SEE PROFILE FOR STATION AND ELEVATION INFORMATION.
9. PROVIDE AND INSTALL W.S.D.O.T. 48" TYPE 2 CATCH BASIN PER W.S.D.O.T. STANDARD PLAN WITH TYPE 1 FRAME AND GRATE PER SPOKANE COUNTY STANARD PLAN B-4, B-10 AND B-12. SEE PROFILE FOR STATION AND ELEVATION INFORMATION.
10. PROVIDE AND INSTALL APSHALT PAVEMENT PER SPOKANE COUNTY STANDARDS AND SECTION ON SHEET 10.
11. PROVIDE AND INSTALL 12" CMP STORM PIPE PER SPOKANE COUNTY STANDARDS. SEE PROFILE FOR INFORMATION.
12. PROVIDE AND INSTALL 18" CMP STORM PIPE PER SPOKANE COUNTY STANDARDS. SEE PROFILE FOR INFORMATION.
13. SEE SHEET 13 FOR POND DETAILS.
14. PROVIDE AND INSTALL TYPE 1 CATCH BASIN WITH TYPE 1 METAL FRAME AND GRATE, AND TYPE 3 GRATE PER SPOKANE COUNTY STANDARD PLAN B-4, B-10, AND B-14. SEE PROFILE FOR STATION, OFFSET, AND ELEVATION INFORMATION.
15. PROVIDE AND INSTALL 24" CMP STORM PIPE PER SPOKANE COUNTY STANDARDS. SEE PROFILE FOR INFORMATION.
16. ~~PROVIDE AND INSTALL TYPE C CURB PER SPOKANE COUNTY STANDARDS.~~
17. PROVIDE ASPHALT DEPRESSION TOWARDS CATCH BASIN. GRADE APPROPRIATELY.
18. ~~6' TRANSITION FROM TYPE B CURB TO TYPE C CURB. MATCH FLOWLINE.~~
19. SEE DETAIL THIS SHEET FOR 29TH CROSS-SECTION STA 15+25.72 TO STA 17+10.49.
21. PROVIDE AND INSTALL 12" DI PER SPOKANE COUNTY STANDARDS.

CURVE TABLE					
CURVE	LENGTH	RADIUS	TANGENT	CHORD	DELTA
C1	578.34	288.48	455.51	485.01	115°40'00"
C2	43.83	30.50	26.87	40.18	82°20'36"
C3	43.83	30.50	26.87	40.18	82°20'36"
C4	305.58	286.48	169.14	291.30	61°07'00"
C5	63.75	30.00	53.85	52.42	121°45'33"
C6	46.03	30.00	28.93	41.65	87°55'00"

LINE TABLE		
LINE	LENGTH	BEARING
L1	185.58	N 27°6'17" E
L2	45.23	N 88°13'17" E
L3	121.10	S 89°51'53" E



SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1938B
DATE ACCEPTED: 02-07-17
ACCEPTANCE EXPIRES: 02-07-19
PROJECTS LANE MILES: PUBLIC: 0.78
PROJECT LANE MILES PRIVATE:
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE

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

NAVD-88 DATUM
MONUMENT ID NO. 3394, HWY 395, MP 167.55, CBM NO. GP32395-201
ELEVATION = 1749.592
SPIKE AT CENTERLINE OF HAVANA STREET AND 29TH. AVENUE
ELEVATION=2298.606

DEVELOPER'S APPROVAL — DATE

NO.	DATE	BY	REVISIONS
---		SRR	SUBMITTAL TO SPOKANE COUNTY ENGINEERS
	04/19	MLM	PLAN PREPARATION

SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=10'
PROJ #: 2005-175
DATE: 08/20/08
DRAWN: MEK
APPROVED: TRW

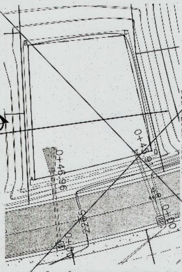
WCE
WHIPPLE CONSULTING ENGINEERS
CIVIL AND TRANSPORTATION ENGINEERING
2528 NORTH SULLIVAN ROAD
SPOKANE VALLEY, WASHINGTON 99216

STREET AND DRAINAGE PLANS
SOUTHRIDGE PUD, PHASE 2B
29TH. AVENUE STA. 10+15 TO STA. 18+30.41
SPOKANE COUNTY, WASHINGTON

SHEET 9 OF 14
JOB NUMBER 2005-175

SECTION 35, T. 25 N., R. 43 E., W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1-800
424-5555
CALL TWO BUSINESS DAYS BEFORE YOU DIG



GENERAL NOTES, ALL PONDS:

1. GENERAL REFERENCE FIGURE 47, PAGE 6-83 OF SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT.

2. BOTTOM OF POND AND NON-BERM AREAS OF POND SHALL BE PLANTED WITH NATIVE-TYPE GRASSES ACCLIMATED TO ARID CONDITIONS (DRYLAND GRASSES). SEE SEEDING NOTE, THIS SHEET.

3. THE BASE OF THE BERM SHALL BE FIRM, UNYEILDING SUBGRADE, FREE OF ORGANICS AND FILL MATERIAL.

4. STANDARD DENSITY SHALL BE IN ACCORDANCE WITH A.S.T.M. D-1557.

POND BOTTOM LOCATION TABLE
CUSTER STATION & OFFSET

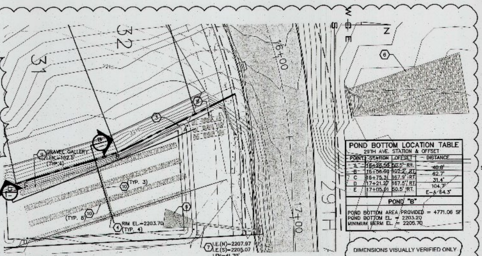
POINT	STATION	OFFSET	DISTANCE
A	3+27.89	30.4' LT.	83.3'
B	3+41.82	112.7' LT.	61.0'
C	4+08.01	104.1' LT.	73.7'
D	4+05.73	30.4' LT.	
A	3+27.89	30.4' LT.	D-A 75.9'

POND "A-1"

POND BOTTOM AREA PROVIDED = 5104.1 SF
POND BOTTOM EL. = 2259.49
MINIMUM BERM EL. = 2261.49

POND "A-1" DETAIL (TO BE GRADED IN ONLY)

1" = 20'



POND BOTTOM LOCATION TABLE
29TH AVE. STATION & OFFSET

POINT	STATION	OFFSET	DISTANCE
A	16+25.56	50.5' RT.	40.8'
B	16+58.89	102.2' RT.	62.7'
C	16+75.31	167.9' RT.	31.4'
D	17+21.27	167.5' RT.	104.7'
E	17+05.01	50.5' RT.	E-A 64.3'

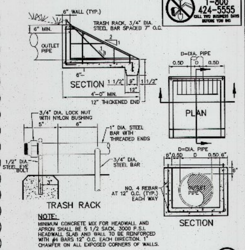
POND "B"

POND BOTTOM AREA PROVIDED = 4771.06 SF
POND BOTTOM EL. = 2203.20
MINIMUM BERM EL. = 2205.70

DIMENSIONS VISUALLY VERIFIED ONLY

POND "B" DETAIL

1" = 20'

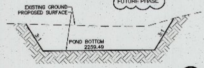


NOTE:
MINIMUM CONCRETE MIX FOR HEADWALL AND APRON SHALL BE 5 1/2 SACK, 3000 P.S.I. HEADWALL SLAB AND WALL TO BE REINFORCED WITH #4 BARS 12" O.C. EACH DIRECTION. 1" CHAMFER ON ALL EXPOSED CORNERS OF WALLS.

CONCRETE HEADWALL WITH TRASH RACK (2)

NOT TO SCALE

RECORD DRAWING

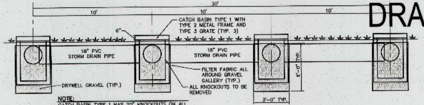


POND "A-1" SECTION (A)

NOT TO SCALE

CONSTRUCTION NOTES

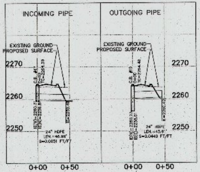
1. NOT USED.
2. PROVIDE AND INSTALL CONCRETE HEADWALL WITH GRATE. SEE DETAIL 2, THIS SHEET.
3. PROVIDE AND INSTALL RIP-RAP ALONG POND SLOPE PER SPOKANE COUNTY STANDARDS.
4. PROVIDE AND INSTALL CATCH BASIN TYPE 1 WITH TYPE 2 METAL FRAME AND TYPE 3 GRATE PER SPOKANE COUNTY STANDARD PLANS B-4, B-11, B-14.
5. PROVIDE AND INSTALL RIP-RAP PAD PER SPOKANE COUNTY STANDARDS. SEE DETAIL 1, THIS SHEET.
6. EXISTING FLOOD PLAIN DISCHARGE, SEE PHASE 1 DETAILS.
7. PROVIDE AND INSTALL 24" D.I. STORM DRAIN PIPE PER SPOKANE COUNTY STANDARDS. SEE PROFILE, THIS SHEET, FOR PIPE INFORMATION (POND A-1).
8. PROVIDE AND INSTALL 19.3± L.F. OF 36" CMP CULVERT (EXTENSIONS OF 3 EXISTING) PER SPOKANE COUNTY STANDARDS. MATCH EXISTING SLOPE.
9. PROVIDE AND INSTALL GRAVEL GALLERY. SEE DETAIL B, THIS SHEET.
10. PROVIDE AND INSTALL 10 L.F. OF 18" P.V.C. AT 0.00 FT./FT. SLOPE PER SPOKANE COUNTY STANDARDS.



NOTE:
CATCH BASIN TYPE 1 HAS 20" KNOCKOUTS ON ALL SIDES. CONTRACTOR SHALL KNOCK OUT ALL OF THEM AND INSTALL 10 L.F. OF 18" STORM DRAIN PIPE.

GRAVEL GALLERY SECTION (B)

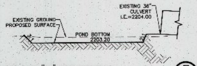
NOT TO SCALE



PIPE PROFILE

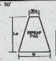
1" = 50'

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: P-1938
DATE ACCEPTED: 11/5/18



POND "B" SECTION (C)

NOT TO SCALE



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

RIPRAP PAD DIMENSIONS

PAD	3Do	La	W	STONE SIZE	THICK.
A-1	4.5'	18'	13'	4" MIN.	12"
B	4.5'	18'	12'	13" MIN.	26"

TYPICAL RIPRAP PAD (1)

NOT TO SCALE

SEEDING NOTE:

GRASS SEED: PROVIDE FRESH, CLEAN, NEW-CROP SEED COMPLYING WITH TOLERANCE OF PURITY AND GERMINATION ESTABLISHED BY THE OFFICIAL SEED ANALYSIS OF NORTH AMERICAN. PROVIDE SEED MIXTURE COMPOSED OF GRASS SPECIES AND PERCENTAGES AS FOLLOWS:

10 PERCENT ELKA PERRENIAL 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 AMOUNTS AS FOLLOWS:

GRASS SEED: 90 LBS. PER ACRE
FERTILIZER: 16-16-16 TIMED RELEASE COMPOSITION, 300 LBS. PER ACRE

ALL SEEDING OF SLOPES SHALL SHALL BE DONE IN ACCORDANCE WITH THE W.S.D.O.T. STANDARD SPECIFICATIONS, SECTION 8-01.

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

PAUL T. NELSON
PROFESSIONAL ENGINEER
10-22-18

PLAN REVISED SEE PREVIOUSLY APPROVED PLAN

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #:
DATE ACCEPTED:
ACCEPTANCE EXPIRES:
PROJECTS LANE MILES: PUBLIC:
PROJECT LANE MILES PRIVATE:
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

RB

PROFESSIONAL ENGINEER
3/21/17

P-1938

COUNTY DATUM
MONUMENT ID NO. 3584 HWY 395, MO 167.36, CBM NO. GP32395-201
ELEVATION - 1748.362
SPIKE AT C/L OF HAVANA STREET AND 29TH AVENUE
ELEVATION - 2298.806

DEVELOPER'S APPROVAL — DATE

NO.	DATE	BY	REVISIONS
1	3/21/17	JPP	PROFILE GRADE CHANGE
	09/29	JJK	FINAL PLAN SUBMITTAL
	08/30	RLM	ORIGINAL PLAN PREPARATION

SCALE:
HORIZONTAL: AS SHOWN
VERTICAL: 1" = 10'

PROJ #: 2005-175
DATE: 09/29/06
DRAWN: MEK
APPROVED: TRW

WCE
WHIPPLE CONSULTING ENGINEERS
CIVIL AND TRANSPORTATION ENGINEERING
2528 NORTH SULLIVAN ROAD
SPOKANE VALLEY, WA 99216
PH: 509-893-2617 FAX: 509-926-0227

STREET AND DRAINAGE PLANS
SOUTHRIDGE P.U.D PHASE 2B
POND DETAILS
HAVANA STREET AND 29TH. AVENUE
SPOKANE COUNTY, WASHINGTON

SHEET 12 OF 14

JOB NUMBER 2005-175