LATAH RIDGE

STREET AND DRAINAGE PLANS

SPOKANE COUNTY, WASHINGTON

NW 1/4 SECTION 2, T. 23 N., R. 43 E., W.M.

RECORD DRAWING

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 THE SPOKANE COUNTY AND ALL UTILITY COMPANIES WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND 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 A 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 AND 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.

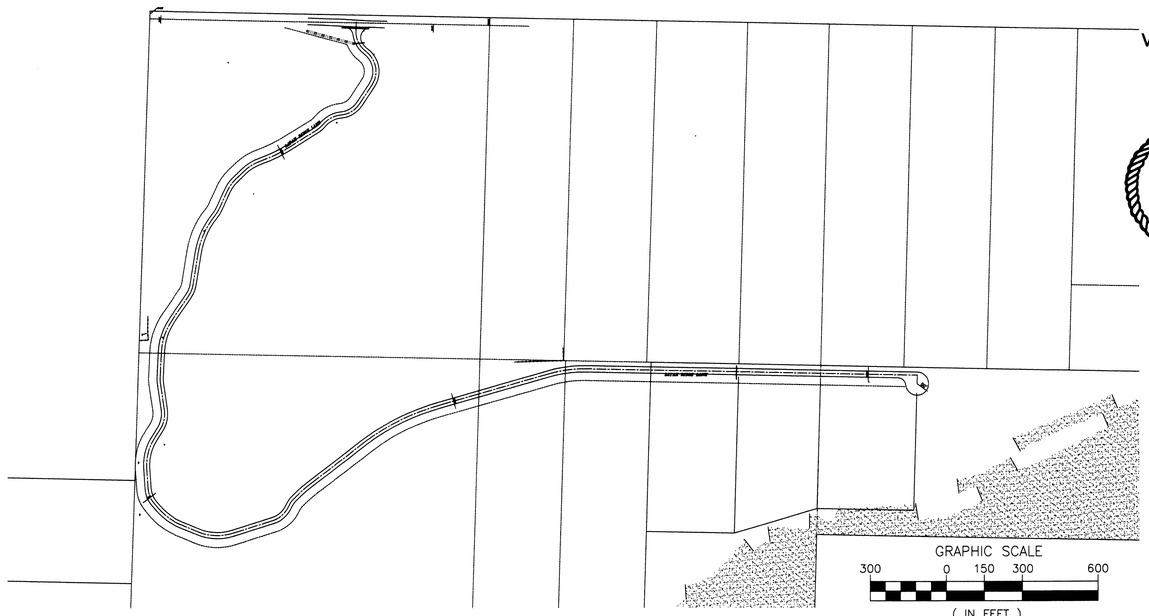
16. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF THE SPOKANE COUNTY ENGINEERING DEPARTMENT STANDARD DETAILS AND SPECIFICATIONS.

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 A REQUIREMENT FROM THE 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 THE APPROVAL BY THE SPOKANE COUNTY ENGINEER AND NOTIFICATION OF THE ENGINEER OF RECORD.

20. ONSITE 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, FLOODPLAINS, DESIGNATED DRAINAGEWAYS, ETC.

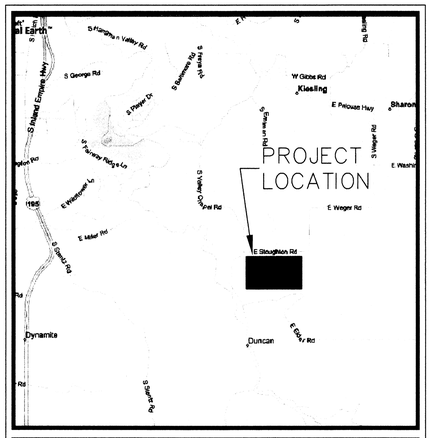


SITE PLAN
SCALE: 1" = 50'

N
W E
S

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: SP 1478
DATE ACCEPTED: 6/12/14

VICINITY MAP
NOT TO SCALE



VICINITY MAP

INDEX TO PLAN SHEETS

SHEET NO. 1	COVER SHEET
SHEET NO. 2	LATAH RIDGE LANE PLAN & PROFILE
SHEET NO. 3	LATAH RIDGE LANE PLAN & PROFILE
SHEET NO. 4	LATAH RIDGE LANE PLAN & PROFILE
SHEET NO. 5	LATAH RIDGE LANE PLAN & PROFILE
SHEET NO. 6	SWALE AND CUL-DE-SAC DETAILS

CONSTRUCTION NOTES

IF THE PAVEMENT SUBGRADES CONSIST OF INTACT BASALT BEDROCK, IT IS OUR OPINION THAT THE PAVEMENT SECTION CAN BE REDUCED TO 2 INCHES OF ASPHALT OVERLYING 4 INCHES OF CRUSHED AGGREGATE.

WE RECCOMEND THAT THE SUBGRADE BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557) AND THAT THE IN-PLACE MOISTURE CONTENT OF THE SUBGRADE SOIL BE CONDITIONED WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT. WHERE FILL IS REQUIRED, WE RECOMEND THAT IT BE SIMILARLY MOISTURE CONDITIONED AND COMPACTED. BECASUE THE SITE SOILS ARE MODERATELY TO HIGHLY FROST-SUSCEPTIBLE, IT IS IMPORTANT THAT THE SUBGRADE SURFACE BE SHAPED TO PROVIDE FOR POSITIVE DRAINAGE TO MINIMIZE THE POTENTIAL FOR WATER TO POND IN THE SUBGRADE, WHICH COULD CAUSE THE PAVEMENT TO HEAVE. WE RECOMEND THAT A SHEEPS-FOOT ROLLER BE USED TO COMPACT THE ROADWAY SUBGRADE.

THE CLAYS ARE VERY SENSITIVE TO DISTURBANCE, ESPECIALLY WHEN WET. IF THESE SOILS ARE WET, WE RECOMMEND THAT CONSTRUCTION TRAFFIC BE MINIMIZED WHERE THESE SOILS ARE EXPOSED. IF THESE SOILS BECOME UNSTABLE, OTHER MEASURES, SUCH AS EXCAVATION AND REPLACEMENT OR GEOTEXTILE FABRIC, MAY BE NECESSARY.

WE RECOMMEND THAT THE SUBBASE CONSIST OF A FREE-DRAINING, COARSE-GRAINED FILL HAVING A MAXIMUM NOMINAL SIZE OF 2 INCHES AND LESS THAN 10 PERCENT BY WEIGHT PASSING A 200 SIEVE. PRIOR TO PLACING THE SUBBASE, WE RECOMMEND PLACING A WOVEN GEOTEXTILE SEPERATOR FABRIC (E.G. MIRAFI 500X OR EQUIVALENT) OVER THE ROADWAY SUBGRADE SOILS. WE RECOMMEND THAT THE SUBBASE BE A MINIMUM OF 18 INCHES THICK AND COMPACTED TO A MINIMUM OF 95 PERECNT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.

PRIOR TO PLACING THE SUBBASE WE RECOMMEND THAT ALL SUBGRADE AREAS BE PROOF-ROLLED WITH A LOADED DUMP TRUCK. THIS PRECAUTIONARY MEASURE WOULD ASSIST IN DETECTING ANY LOCALIZED SOFT AREAS. ANY SOFT AREAS DISCOVERED DURING THE PROOF-ROLLING OPERATION SHOULD BE EXCAVATED AND REPLACED WITH A SUITABLE STRUCTURAL FILL MATERIAL. WE RECOMMEND THAT THE PROOF-ROLLING PROCESS BE OBSERVED BY A QUALIFIED GEOTECHNICAL ENGINEER TO MAKE THE FINAL EVALUATION OF THE SUBGRADE. IF THE CLAY SUBGRADE SOILS ARE COMPLETELY REMOVED FROM THE ROADWAY AREA, IT IS OUR OPINION THAT THE GEOTEXTILE SEPERATOR FABRIC CAN BE ELIMINATED.

WE RECOMMEND SPECIFYING CRUSHED GRAVEL BASE MEETING THE REQUIRMENTS OF THE WASHINGTON DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATION 9-03.9(3) FOR CRUSHED GRAVEL BASE COURSE. WE RECOMMEND THAT THE ASPHALT CONCRETE PAVEMENT MEET THE REQUIREMENTS OF WSDOT STANDARD SPECIFICATIONFOR HOT ASPHALT MIX (HMA) CLASS ASPHALT CONCRETE PAVEMENTS. WE RECOMMEND THAT THE CRUSHED GRAVEL BASE BE COMPACTED TO A MINIMUM OF 95 PERCENT OF ITS MODIFIED PROCTOR MAXIMUM DRY DENSITY. WE RECOMMEND THAT THE ASPHALTIC CONCRETE SURFACE BE COMPACTED TO A MINIMUM OF 92 PERCENT OF THE RICE DENSITY. IF A HIGH PERCENTAGE OF TRUCK TRAFFIC IS EXPECTED, WE SHOULD BE NOTIFIED SO WE CAN REVIEW OUR PAVEMENT RECOMMENDATIONS AND PROVIDE REVISIONS IF NECESSARY.

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO APPLICABLE EDITIONS OF SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION AND THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT AS MODIFIED BY SPOKANE COUNTY. ALL DESIGN DEVIATIONS HAVE BEEN APPROVED BY THE SPOKANE COUNTY ENGINEER. I APPROVE THESE PLANS FOR CONSTRUCTION.

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

LEGEND

EXISTING	GENERAL	PROPOSED
	ROADWAY CENTER LINE	
	RIGHT OF WAY LINE	
	PROPERTY LINE	
	EASEMENT LINE	
—x—x—	FENCE	—x—x—
	CURB	
	PAVEMENT	
	GRAVEL	
	CONCRETE	
	BUILDINGS & STRUCTURES	
	SURVEY MONUMENT	
	SANITARY SEWER	
	SANITARY SEWER	
	MANHOLE	
	CLEANOUT	
	SEWER SERVICE	
	WATER	
	WATER LINE	
V	VALVE	V
FH	FIRE HYDRANT	FH
WS	SERVICE	WS
WM	METER	WM
BLOWOFF	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
PP	POWER OR TELEPHONE POLE	
BP	BURIED POWER	BP
TP	TRANSFORMER PAD	TP
TR	TELEPHONE RISER	TR
TV	TELEPHONE VAULT	TV
OP	OVERHEAD POWER	OH
GA	GUY ANCHOR	GA
PV	POWER VAULT	PV
LP	LIGHT POLE	LP

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

ALLWEST
3005 NORTH INDUSTRIAL LANE, 5TH STREET
SPOKANE VALLEY, WA 99216
OFFICE: 509.534.4411

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.

ANDY J. ELIASON
STATE OF WASHINGTON
42767
REGISTERED PROFESSIONAL ENGINEER
4/29/14
EXPIRES 05/28/15

NAVD-88
TBM-1 ELEVATIONS SHOWN ARE BASED ON NAVD-88 DATUM, ORIGINATING FROM SPOKANE COUNTY TBM-MN6, BEING A RAILROAD SPIKE IN A UTILITY POLE AT THE SE QUADRANT OF THE INTERSECTION OF MARGUERITE AND LONGFELLOW
EL.=1986.87 NAVD-88
TBM-2 TEMPORARY BENCHMARK ESTABLISHED:
RAILROAD SPIKE IN UTILITY POLE
EL.=1997.52

DEVELOPER'S APPROVAL _____ DATE _____

NO.	DATE	BY	REVISIONS
2	4/29/14	AJE	ALLWEST TESTING AND ENGINEERING RECORD DRAWING
1	06/08	KJM	ORIGINAL PLAN PREPARATION

SCALE: HORIZONTAL: AS SHOWN
VERTICAL: N/A

PROJ #: 2008-454
DATE: 07/24/08
DRAWN: KJM
APPROVED: JFS

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

STREET AND DRAINAGE PLANS
LATAH RIDGE
COVER SHEET
SPOKANE COUNTY, WASHINGTON

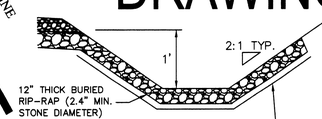
SHEET 1 OF 6

JOB NUMBER 2008-454

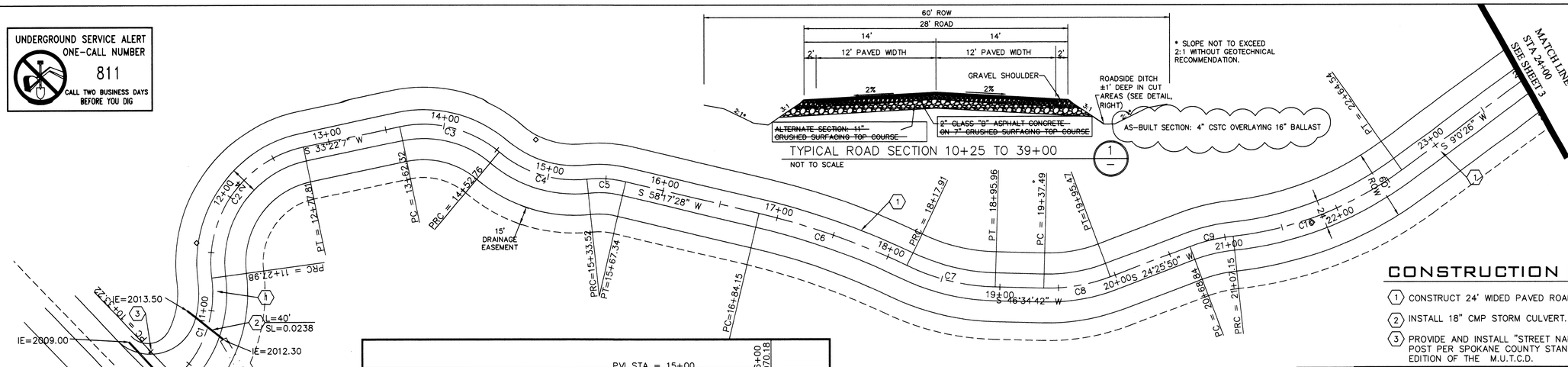
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

RECORD DRAWING

TYPICAL ROAD SECTION 10+25 TO 39+00
NOT TO SCALE



ROADSIDE DITCH
NOT TO SCALE

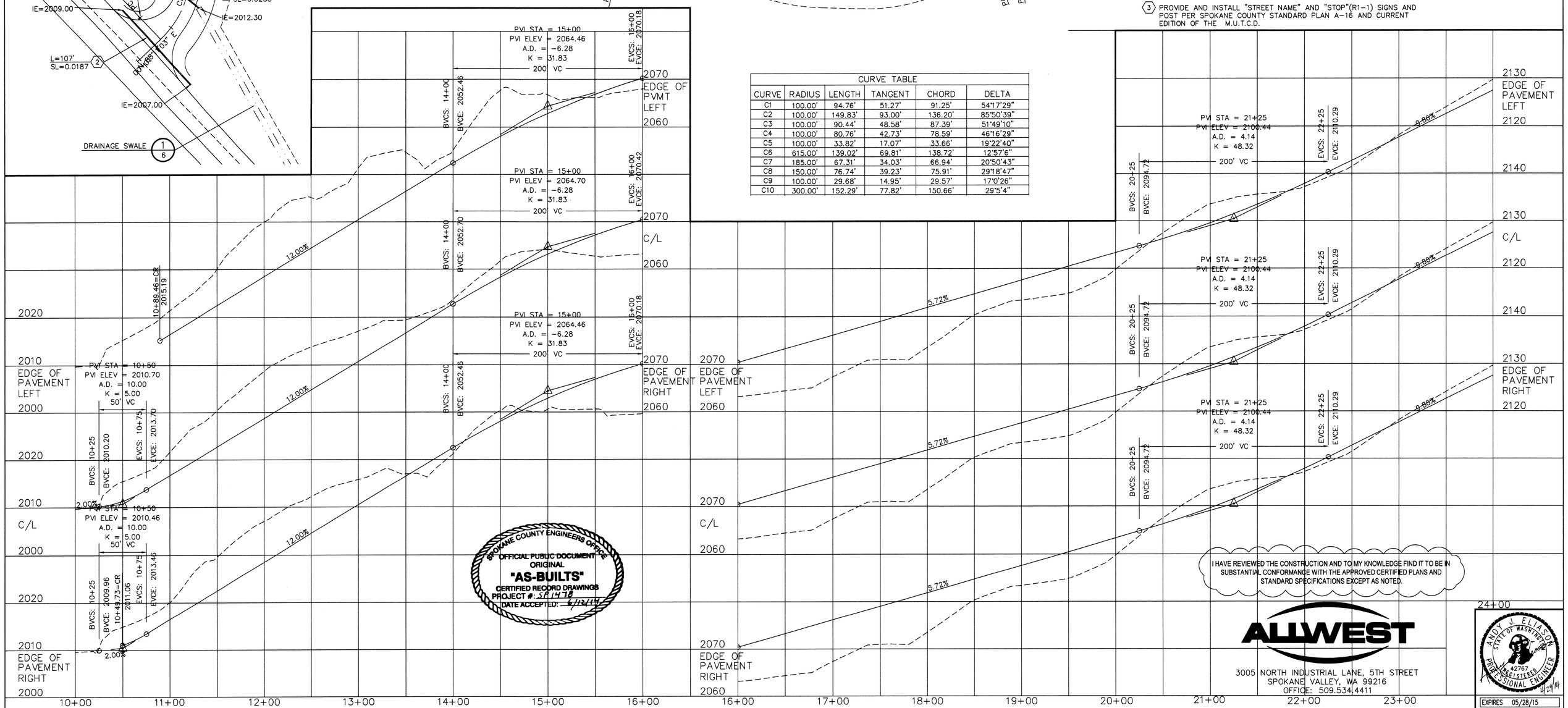


CONSTRUCTION NOTES

1. CONSTRUCT 24' WIDED PAVED ROADWAY PER SECTION, THIS SHEET.
2. INSTALL 18" CMP STORM CULVERT. SEE PLAN FOR INFORMATION.
3. PROVIDE AND INSTALL "STREET NAME" AND "STOP"(R1-1) SIGNS AND POST PER SPOKANE COUNTY STANDARD PLAN A-16 AND CURRENT EDITION OF THE M.U.T.C.D.

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

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	100.00'	94.76'	51.27'	91.25'	54°17'29"
C2	100.00'	149.83'	93.00'	136.20'	85°50'39"
C3	100.00'	90.44'	48.58'	87.39'	51°49'10"
C4	100.00'	80.76'	42.73'	78.59'	46°16'29"
C5	100.00'	33.82'	17.07'	33.66'	19°22'40"
C6	615.00'	139.02'	69.81'	138.72'	12°57'6"
C7	185.00'	67.31'	34.03'	66.94'	20°50'43"
C8	150.00'	76.74'	39.23'	75.91'	29°18'47"
C9	100.00'	29.68'	14.95'	29.57'	17°0'26"
C10	300.00'	152.29'	77.82'	150.66'	29°5'4"



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: SP 1478
DATE ACCEPTED: 6/12/14

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ANDY J. ELIASON
STATE OF WASHINGTON
42767
REGISTERED PROFESSIONAL ENGINEER
6/12/14
EXPIRES 05/28/15

ALLWEST
3005 NORTH INDUSTRIAL LANE, 5TH STREET
SPOKANE VALLEY, WA 99216
OFFICE: 509.534.4411

COUNTY DATUM
XX
XX
XX
XX

DEVELOPER'S APPROVAL DATE

NO.	DATE	BY	REVISIONS
2	4/29/14	AJE	ALLWEST TESTING AND ENGINEERING RECORD DRAWING
1	07/08	KJM	RESPONSE TO COUNTY COMMENTS

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

PROJ #: 2008-454
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DRAWN: KJM
APPROVED: JFS

WCE
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ROAD PROFILE
LATAH RIDGE
STA. 10+00 TO 24+00
SPOKANE COUNTY, WASHINGTON

SHEET 2 OF 6
JOB NUMBER 2008-454

RECORD DRAWING

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CONSTRUCTION NOTES

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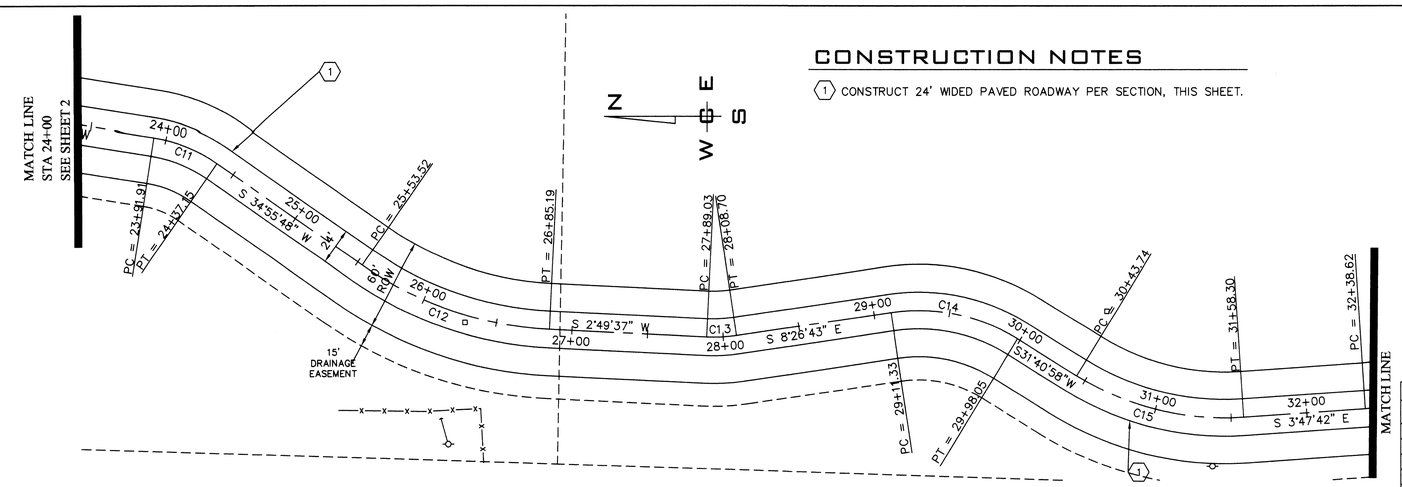

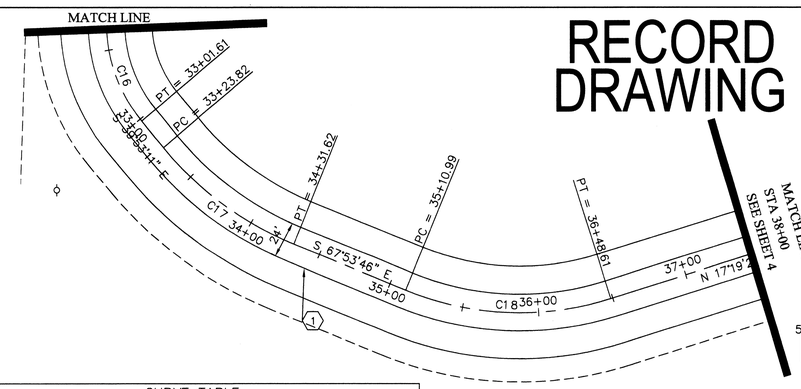

N
W E
S

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
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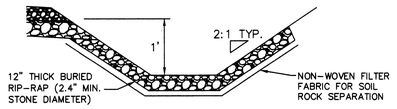
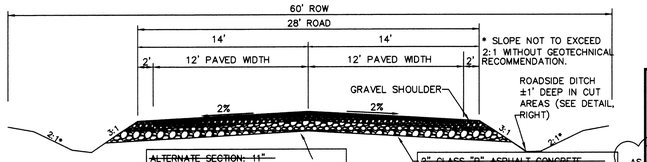
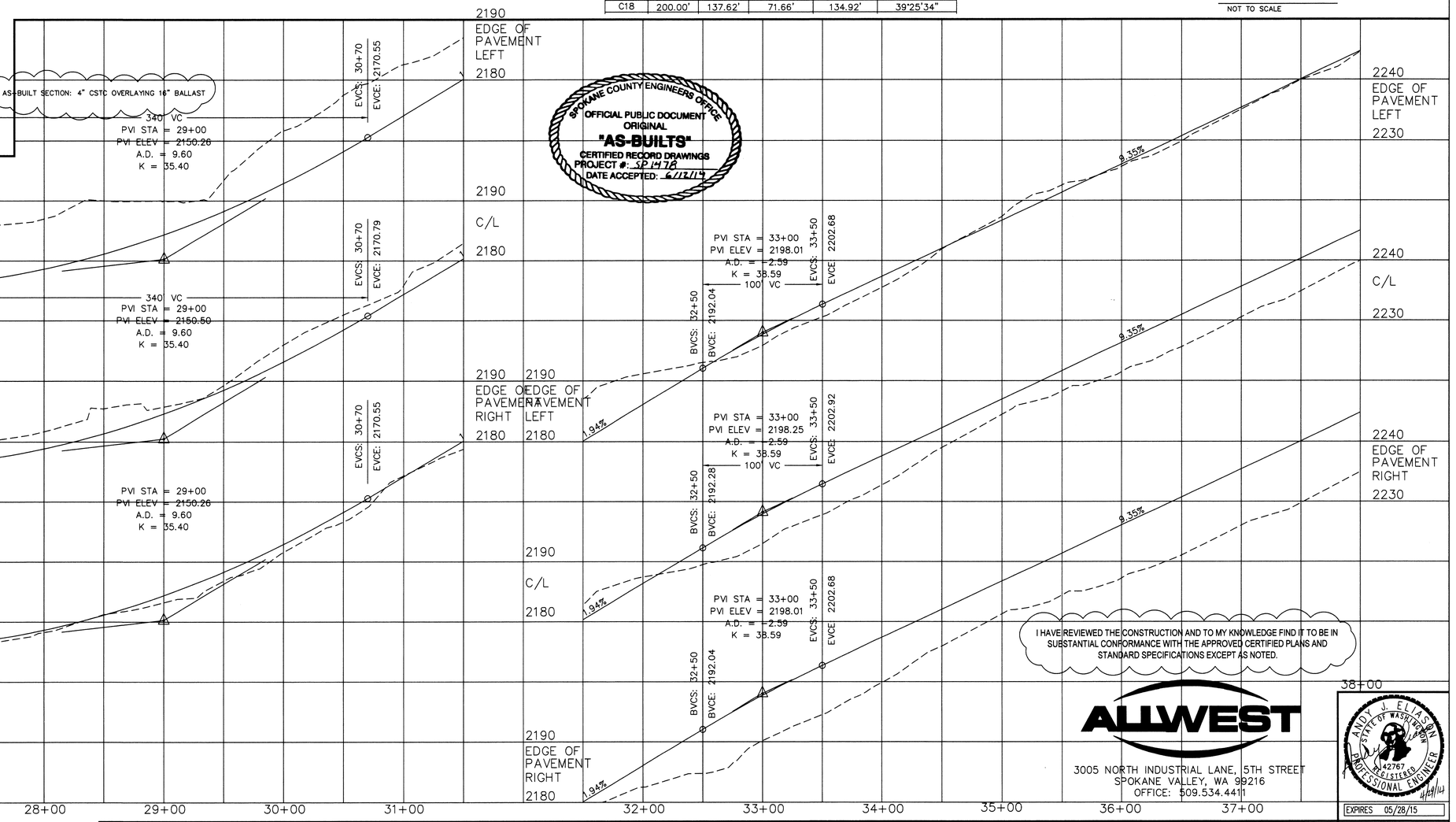
CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C11	100.00'	45.24'	23.02'	44.86'	25°55'22"
C12	235.00'	131.67'	67.61'	129.96'	32°6'11"
C13	100.00'	19.67'	9.87'	19.64'	11°16'19"
C14	123.82'	86.72'	45.22'	84.96'	40°7'40"
C15	185.00'	114.55'	59.18'	112.73'	35°28'40"
C16	100.00'	62.99'	32.58'	61.95'	36°5'28"
C17	220.51'	107.80'	55.00'	106.73'	28°0'36"
C18	200.00'	137.62'	71.66'	134.92'	39°25'34"



ROADSIDE DITCH
NOT TO SCALE



TYPICAL ROAD SECTION 10+25 to 39+00
NOT TO SCALE
(1)



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VERTICAL: 1"=10'

PROJ #: 2008-454
DATE: 07/24/08
DRAWN: KJM
APPROVED: JFS

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

ROAD PROFILE
LATAH RIDGE
STA. 24+50 TO 38+00
SPOKANE COUNTY, WASHINGTON

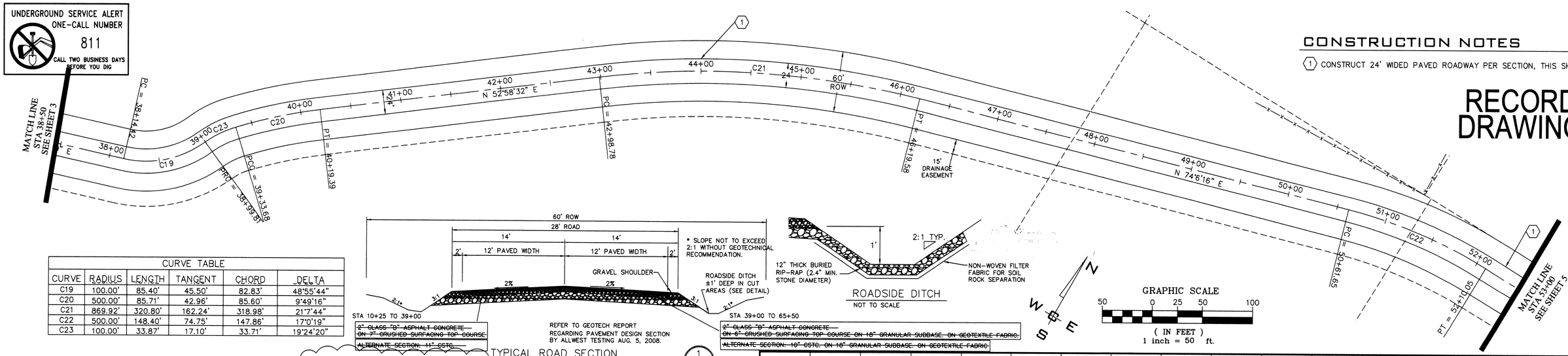
SHEET 3 OF 6
JOB NUMBER 2008-454

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

CONSTRUCTION NOTES

(1) CONSTRUCT 24' WIDED PAVED ROADWAY PER SECTION, THIS SHEET.

RECORD DRAWING



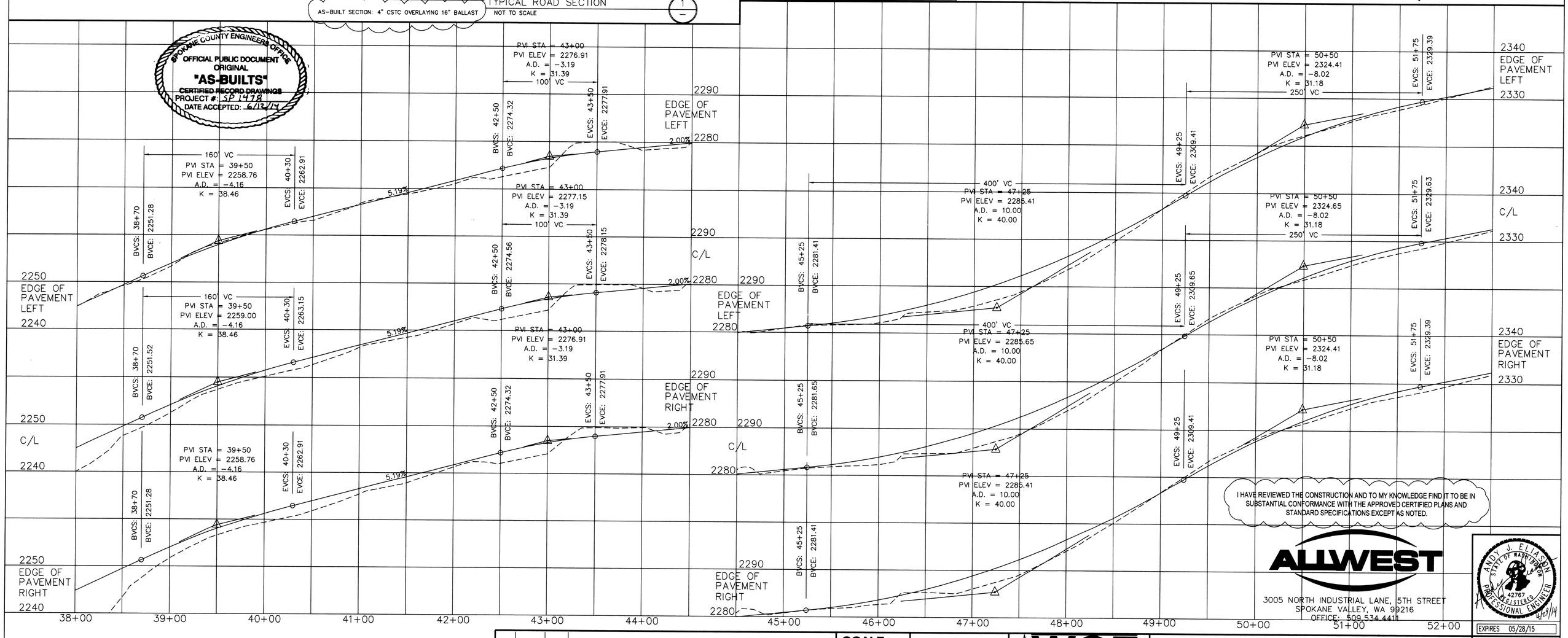
CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C19	100.00'	85.40'	45.50'	82.83'	48°55'44"
C20	500.00'	85.71'	42.96'	85.60'	9°49'16"
C21	869.92'	320.80'	162.24'	318.98'	21°7'44"
C22	500.00'	148.40'	74.75'	147.86'	17°0'19"
C23	100.00'	33.87'	17.10'	33.71'	19°24'20"

REFER TO GEOTECH REPORT REGARDING PAVEMENT DESIGN SECTION BY ALLWEST TESTING AUG. 5, 2008.

TYPICAL ROAD SECTION (1)
NOT TO SCALE

ROADSIDE DITCH
NOT TO SCALE

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



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: SP 1478
DATE ACCEPTED: 6/13/14

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.

ALLWEST
3005 NORTH INDUSTRIAL LANE, 5TH STREET
SPOKANE VALLEY, WA 99216
OFFICE: 509.534.4411

ANDY J. ELIASON
STATE OF WASHINGTON
42767
REGISTERED PROFESSIONAL ENGINEER
4/28/14
EXPIRES 05/28/15

COUNTY DATUM
XX
XX
XX
XX

DEVELOPER'S APPROVAL DATE

NO.	DATE	BY	REVISIONS
2	4/29/14	AJE	ALLWEST TESTING AND ENGINEERING RECORD DRAWING
1	07/08	KJM	RESPONSE TO COUNTY COMMENTS

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

PROJ #: 2008-454
DATE: 07/24/08
DRAWN: KJM
APPROVED: JFS

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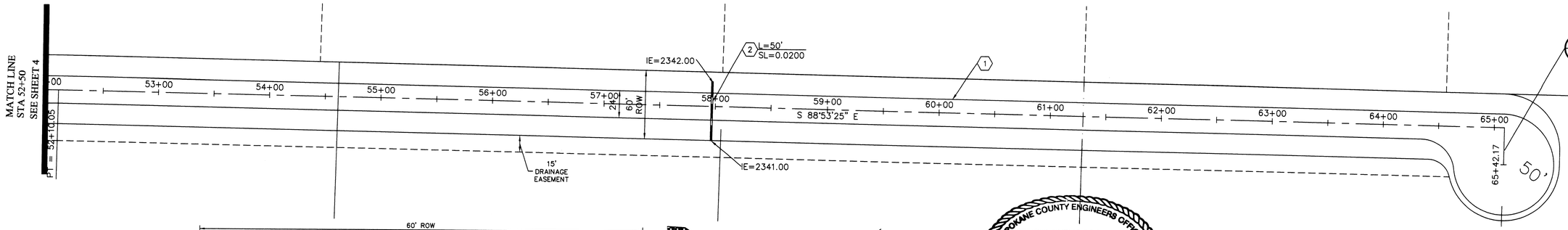
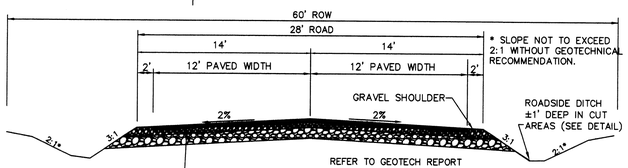
ROAD PROFILE
LATAH RIDGE
STA. 38+00 TO 52+50
SPOKANE COUNTY, WASHINGTON

SHEET 4 OF 6

JOB NUMBER 2008-454

RECORD DRAWING





STA 39+00 TO 65+50

~~2" CLASS "B" ASPHALT CONCRETE ON 6" CRUSHED SURFACING TOP COURSE ON 18" GRANULAR SUBBASE ON GEOTEXTILE FABRIC.~~

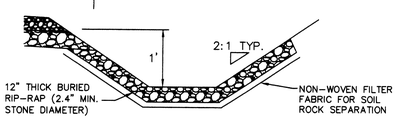
~~ALTERNATE SECTION: 10" CSTC ON 18" GRANULAR SUBBASE ON GEOTEXTILE FABRIC~~

AS-BUILT SECTION: 4" CSTC OVERLAYING 16" BALLAST

REFER TO GEOTECH REPORT REGARDING PAVEMENT DESIGN SECTION BY ALLWEST TESTING AUG. 5, 2008.

TYPICAL ROAD SECTION 1

NOT TO SCALE



ROADSIDE DITCH

NOT TO SCALE

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

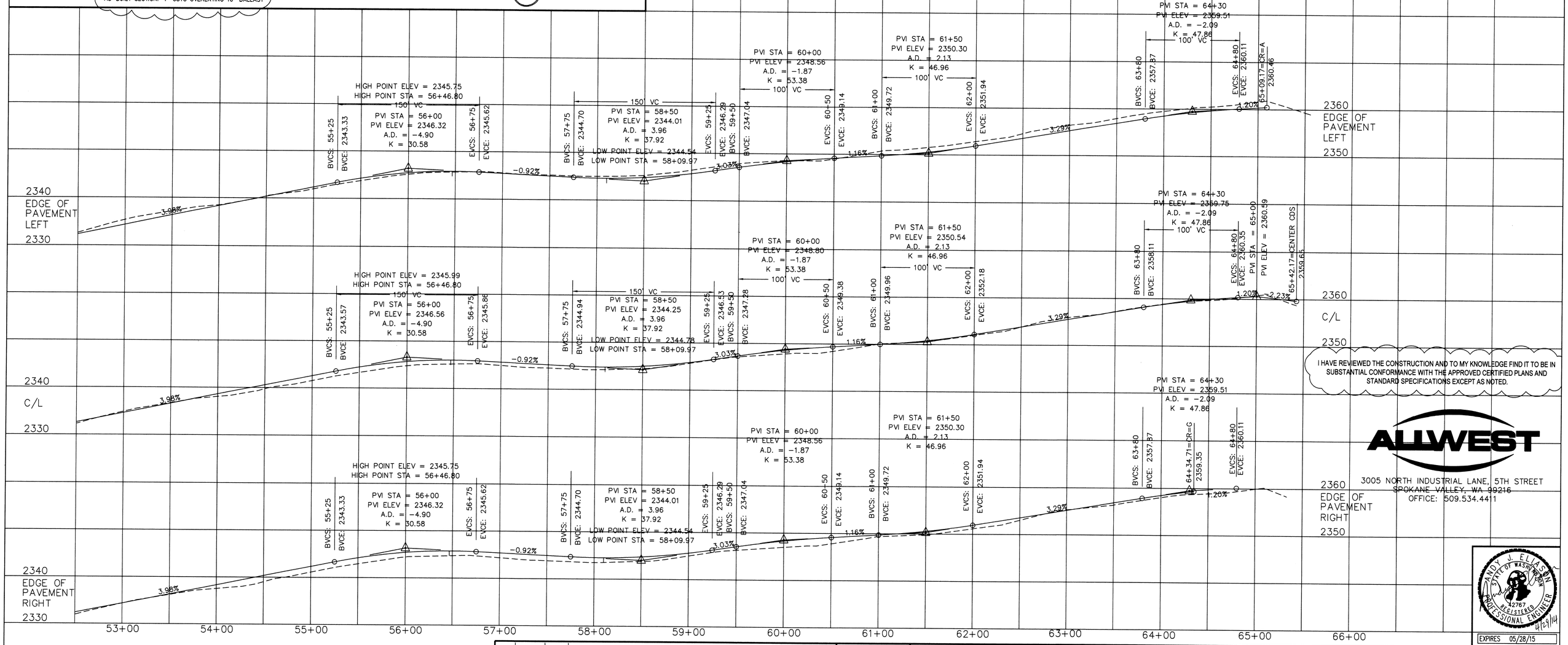
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
- ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: SP 1478
DATE ACCEPTED: 6/12/14

CONSTRUCTION NOTES

1. CONSTRUCT 24' WIDED PAVED ROADWAY PER SECTION, THIS SHEET.
2. INSTALL 18" CMP STORM CULVERT. SEE PLAN FOR INFORMATION.

N
W E
S

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



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REGISTERED PROFESSIONAL ENGINEER
4/29/14

EXPIRES 05/28/15

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SCALE:
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PROJ #: 2008-454
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ROAD PROFILE
LATAH RIDGE
STA. 52+50 TO 65+84.52
SPOKANE COUNTY, WASHINGTON

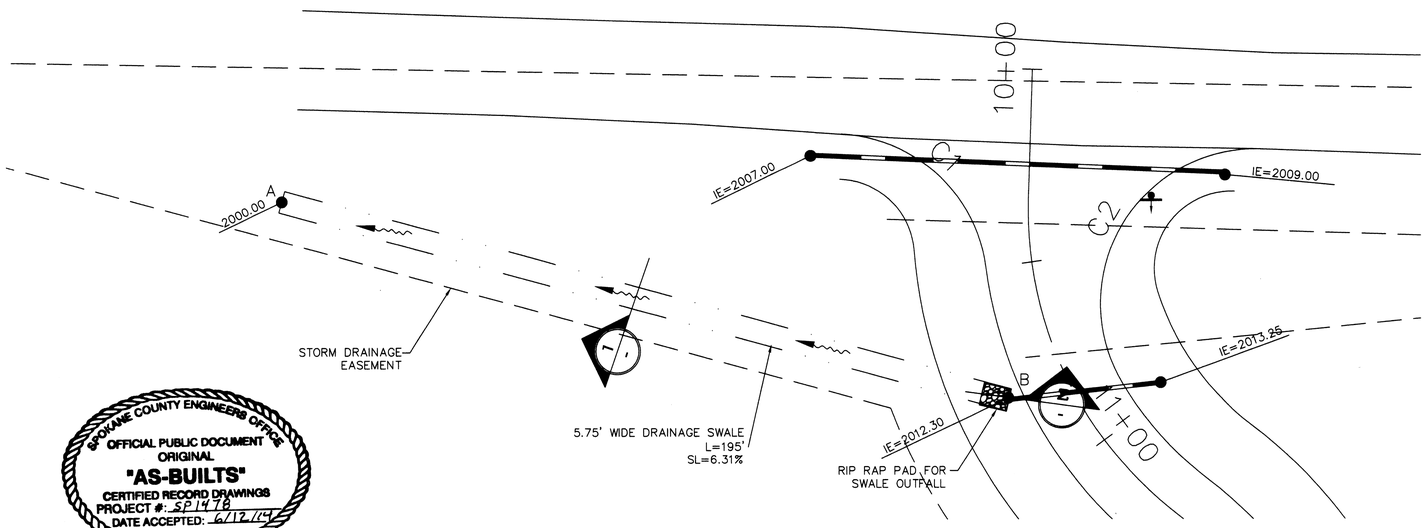
SHEET 5 OF 6

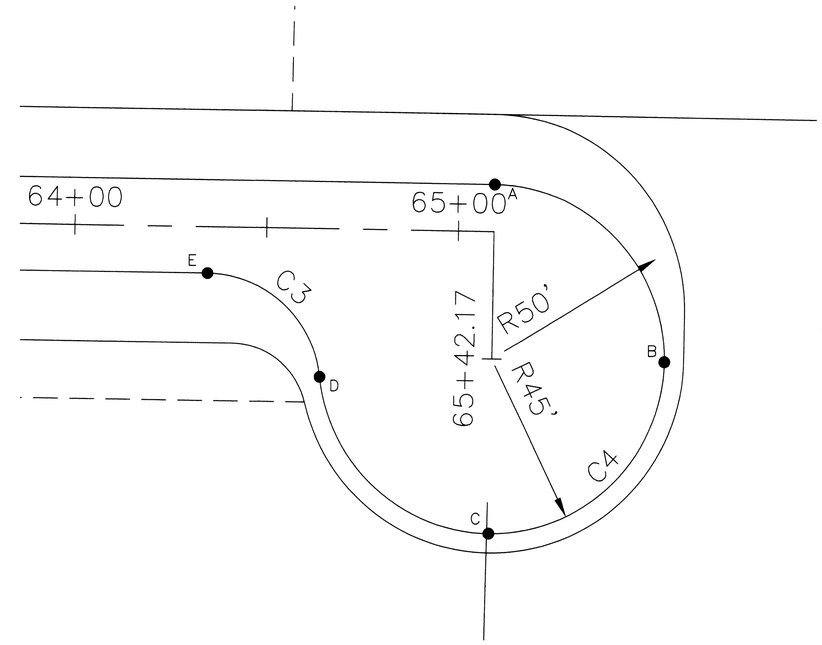
JOB NUMBER 2008-454

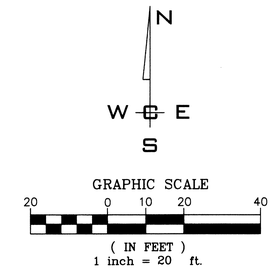
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

RECORD DRAWING

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	40.00'	55.38'	33.16'	51.06'	79°19'26"
C2	40.00'	84.77'	71.32'	69.77'	121°25'37"
C3	30.00'	43.52'	26.59'	39.80'	83°6'28"
C4	45.00'	206.64'	50.77'	67.35'	263°6'28"







SPOKANE COUNTY ENGINEERS OFFICE
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SWALE BOTTOM LOCATION TABLE (LATAH RIDGE LANE STATION & OFFSET)		
POINT	STATION	OFFSET
A	10+13.24	99.36' RT
B	10+55.74	24.07' RT

SWALE BOTTOM	
CHORD	LENGTH
A–B	100.00'

NOTE:

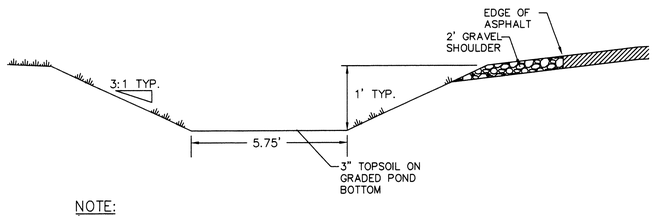
GRASS SEED: PROVIDE FRESH, CLEAN, NEW-CROP SEED COMPLYING WITH TOLERANCE OF PURITY AND GERMINATION ESTABLISHED BY THE OFFICIAL SEED ANALYSIS OF NORTH AMERICA. PROVIDE SEED MIXTURE COMPOSED OF GRASS SPECIES AND PERCENTAGES AS FOLLOWS:

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 PERCENTAGES AS FOLLOWS:

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

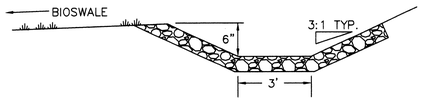
ALL SEEDING OF SLOPES SHALL SHALL BE DONE IN ACCORDANCE WITH THE W.S.D.O.T. STANDARD SPECIFICATIONS, SECTION 8–01.



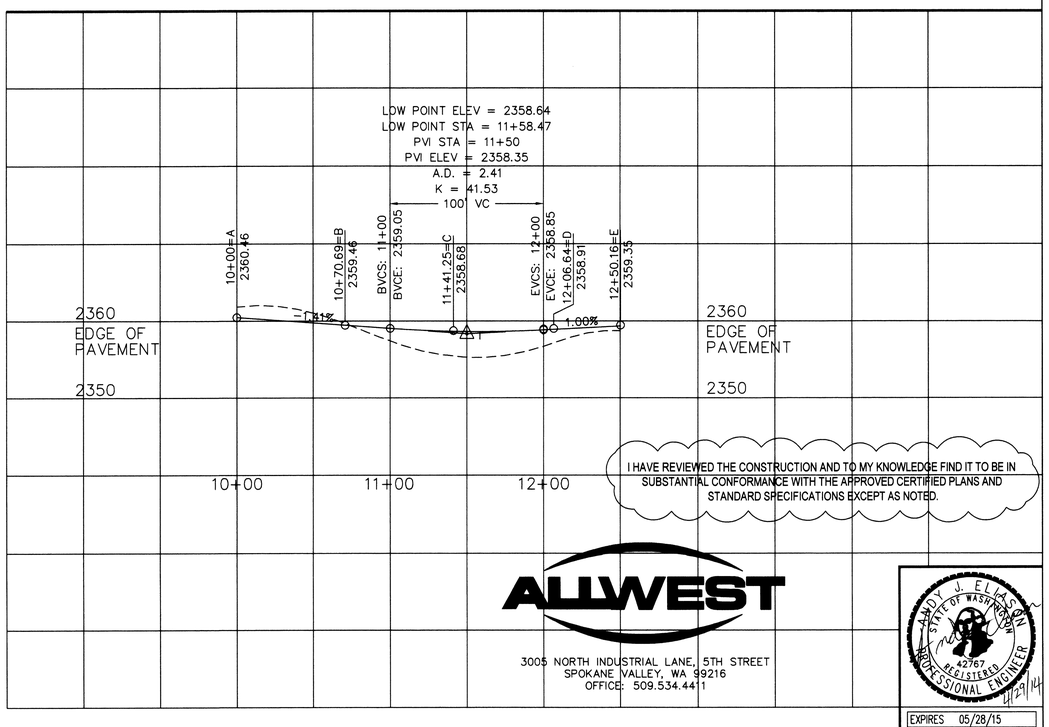
NOTE:
✳ IF TWO OR MORE CURB INLETS ARE USED, SET POND BOTTOM WITH RESPECT TO THE LOWEST CURB INLET GUTTER FLOWLINE ELEVATION

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

BIOSWALE SECTION (1)
NOT TO SCALE



RIPRAP PAD AT SWALE (2)
NOT TO SCALE



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ROAD PROFILE
LATAH RIDGE
SWALE AND CUL-DE-SAC DETAILS
SPOKANE COUNTY, WASHINGTON

SHEET 6 OF 6
JOB NUMBER 2008-454