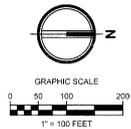




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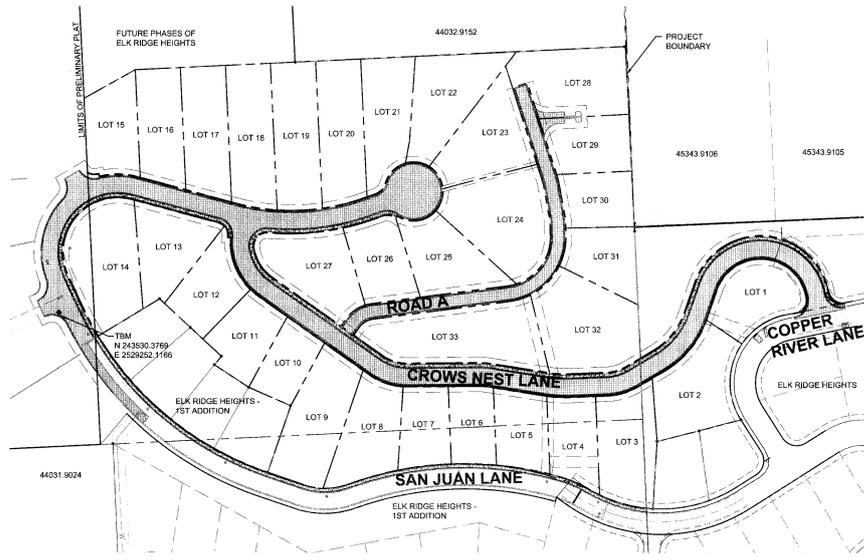
ELK RIDGE HEIGHTS 2ND ADDITION

SE S3, T24N, R44E W.M. & NE S34, T25N, R44E W.M.

SPOKANE COUNTY, WA 99206

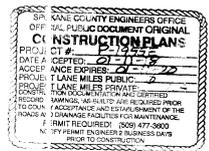
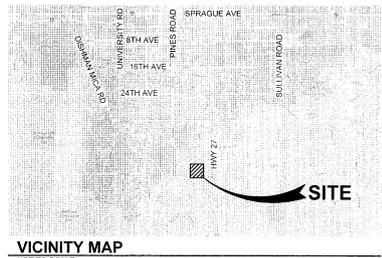


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253.382.8222 fax 253.383.2572 fax www.ahbl.com web



CONSTRUCTION SEQUENCE

- CLEAR AND GRUB SUFFICIENTLY FOR INSTALLATION OF TEMPORARY ESC BMPs
- INSTALL TEMPORARY ESC BMPs. CONSTRUCTING SEDIMENT TRAPPING BMPs AS ONE OF THE FIRST STEPS PRIOR TO GRADING
- CLEAR, GRUB AND ROUGH GRADE FOR ROADS. TEMPORARY ACCESS POINTS AND UTILITY LOCATIONS.
- STABILIZE ROADWAY APPROACHES AND TEMPORARY ACCESS POINTS WITH THE APPROPRIATE CONSTRUCTION ENTRY BMP
- CLEAR, GRUB AND GRADE INDIVIDUAL LOTS OR GROUPS OF LOTS.
- TEMPORARILY STABILIZE THROUGH REVEGETATION OR OTHER APPROPRIATE BMPs. LOTS OR GROUPS OF LOTS IN SITUATIONS WHERE SUBSTANTIAL CUT OR FILL SLOPES ARE A RESULT OF THE SITE GRADING
- CONSTRUCT ROADS, BUILDINGS, PERMANENT STORMWATER FACILITIES (E. INLETS, PONDS, UIC FACILITIES, ETC.)
- PROTECT ALL PERMANENT STORMWATER FACILITIES UTILIZING THE APPROPRIATE BMPs.
- INSTALL PERMANENT ESC CONTROLS, WHEN APPLICABLE. AND:
- REMOVE TEMPORARY ESC CONTROLS WHEN:
 - PERMANENT ESC CONTROLS, WHEN APPLICABLE, HAVE BEEN COMPLETELY INSTALLED.
 - ALL LAND-DISTURBING ACTIVITIES THAT HAVE THE POTENTIAL TO CAUSE EROSION OR SEDIMENTATION PROBLEMS HAVE CEASED. AND,
 - VEGETATION HAD BEEN ESTABLISHED IN THE AREAS NOTED AS REQUIRING VEGETATION ON THE ACCEPTED ESC PLAN ON FILE WITH THE LOCAL JURISDICTION.



PROJECT Title

ELK RIDGE HEIGHTS 2ND ADDITION

Client:
D & J ELK RIDGE HEIGHTS, LLC.

1615 W PINEHILL ROAD
SPOKANE, WA 99218
206-891-7568

Job No. 2170094 10

Issue Set & Date

PERMIT SET

11/20/2017



TRENCH NOTE

IF WORKERS ENTER ANY TRENCH OR OTHER EXCAVATION FOUR OR MORE FEET IN DEPTH THAT DOES NOT MEET THE OPEN PIT REQUIREMENTS OF WSDOT SECTION 2-09.5.3(B), IT SHALL BE SHORED AND CROBBERD. THE CONTRACTOR ALONE SHALL BE RESPONSIBLE FOR WORKER SAFETY AND AHBL ASSUMES NO RESPONSIBILITY. ALL TRENCH SAFETY SYSTEMS SHALL MEET THE REQUIREMENTS OF THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT, CHAPTER 49 17 RCW.

PARCEL NUMBER

44035 1305 & 45344 1303

OWNER

D & J ELK RIDGE HEIGHTS, LLC
1615 W PINEHILL
SPOKANE, WA 99218
PH: (509) 891-7568
CONTACT: JEFF AMISTOSO

UTILITY NOTE

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT HAPPEN DUE TO THE CONTRACTOR'S FAILURE TO LOCATE EXACTLY AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. AHBL ASSUMES NO LIABILITY FOR THE LOCATION OF UNDERGROUND UTILITIES.

UTILITIES/SERVICES

WATER	SPOKANE COUNTY WATER DISTRICT #3
SEWER	SPOKANE COUNTY
ELECTRICITY	AVISTA UTILITIES
NATURAL GAS	AVISTA UTILITIES
TELEPHONE	CENTURYLINK
CABLE	COMCAST
SOLID WASTE DISPOSAL	WASTE MANAGEMENT
FIRE	SPOKANE FIRE DISTRICT #8

CIVIL ENGINEER

AHBL, INC
827 WEST FIRST AVENUE, SUITE 220
SPOKANE, WA 99201
PH: (509) 252-9116
FAX: (509) 315-8982
CONTACT: ERIK FITZPATRICK, PE

LEGAL DESCRIPTION

UNPLATTED PORTION OF ELK RIDGE HEIGHTS APN 45344 1303 & 44035 1305

TOPOGRAPHIC NOTE

THE EXISTING CULTURAL AND TOPOGRAPHIC DATA SHOWN ON THESE DRAWINGS HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, AHBL CANNOT ENSURE ACCURACY AND THIS IS NOT RESPONSIBLE FOR THE ACCURACY OF THAT INFORMATION OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

FILL SPECIFICATIONS

IMPROVED FILL MATERIAL SHALL NOT CONTAIN PETROLEUM PRODUCTS, OR SUBSTANCES WHICH ARE HAZARDOUS, DANGEROUS, TOXIC, OR WHICH OTHERWISE VIOLATE ANY STATE, FEDERAL OR LOCAL LAW, ORDINANCE, CODE, REGULATION, RULE, ORDER, OR STANDARD.

SITE TBM

TBM FLANGE BOLT ON FIRE HYDRANT AT SOUTH SIDE OF PROPERTY AS SHOWN ON PLAT.
ELEVATION = 2287.31'

LEGEND:

EXISTING		PROPOSED
▲	SET NAIL AND WASHER	
●	BOLLARD	
■	MAIL BOX	
○	SIGN	
○	SANITARY SEWER MANHOLE	●
○	SANITARY SEWER CLEANOUT	●
□	STORM CATCH BASIN	■
⊖	STORM MANHOLE	⊖
○	DRYWELL	⊖
○	ROOF DRAIN	⊖
⊠	GAS METER	
⊠	GAS VALVE	
○	TRAFFIC SIGNAL POLE	
⊠	POWER TRANSFORMER	
○	UTILITY POWER POLE	
⊠	ELECTRICAL VAULT	
⊠	JUNCTION BOX	
⊖	POWER METER	
⊠	LUMINAIRE	
⊠	COMMUNICATIONS MANHOLE	
⊠	FIRE HYDRANT	●
⊠	IRRIGATION CONTROL VALVE	⊠
⊠	WATER METER	⊠
⊠	WATER VALVE	⊠
⊠	STORM LINE	⊠
⊠	SANITARY SEWER LINE	⊠
⊠	GAS LINE	⊠
⊠	ELECTRICAL LINE	⊠
⊠	COMMUNICATIONS LINE	⊠
⊠	WATER LINE	⊠
⊠	CONCRETE	⊠
⊠	ASPHALT	⊠
⊠	CONTOUR MAJOR INTERVAL	XXX
⊠	CONTOUR MINOR INTERVAL	XXXX

COVER

Designed by: [] Drawn by: [] Checked by: []
EIT EIT EIT

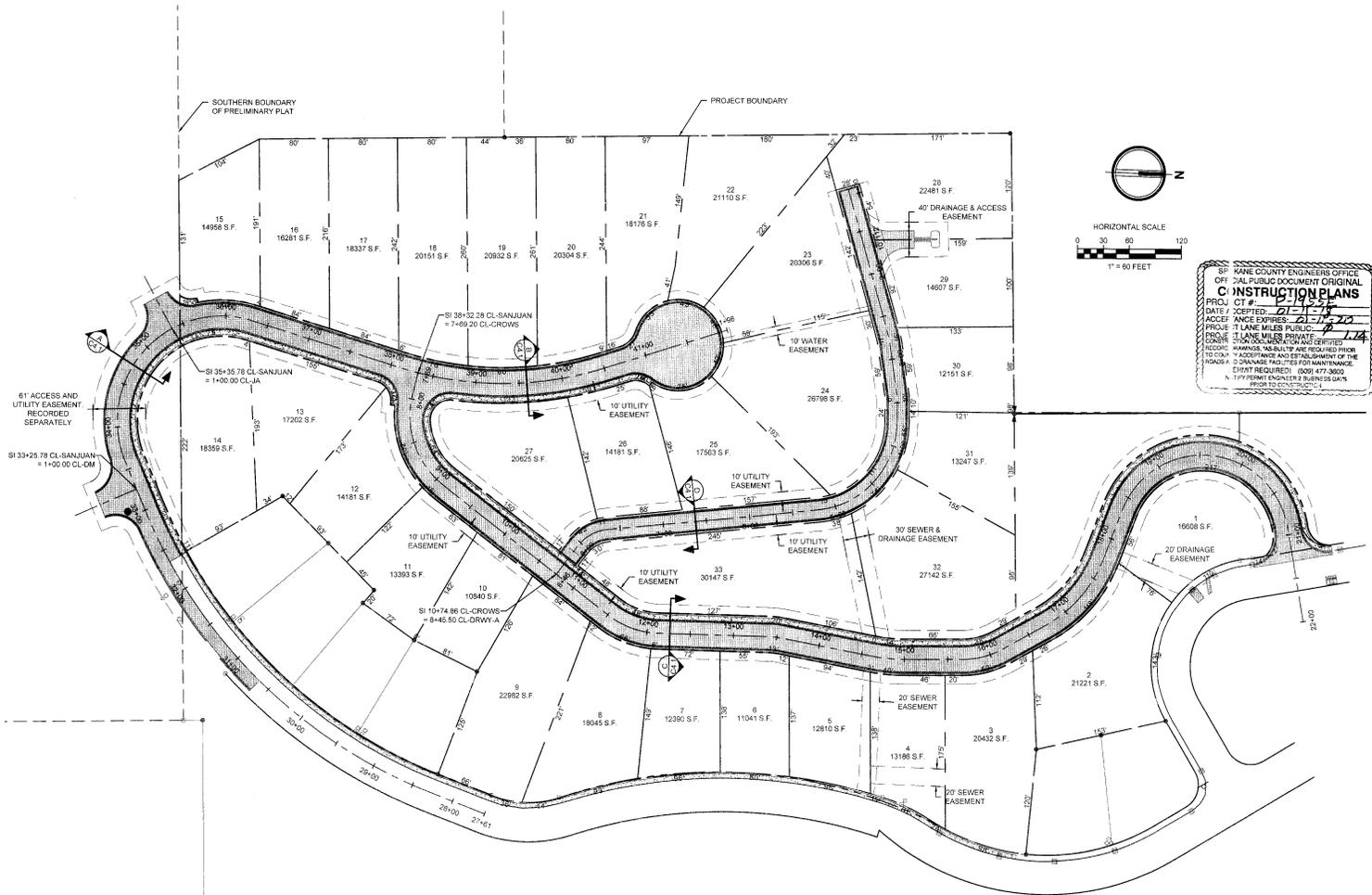
Sheet No.

C0.1



Know what's below.
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ELK RIDGE HEIGHTS 2ND ADDITION



KANE COUNTY ENGINEERING OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJ. CT # 21-21-24
DATE / ACCEPTED: 7/17/20
PERMIT EXPIRES: 7/17/22
PROJECT: 11 LANE MOBILE PUBLIC
OWNER: 11 LANE MOBILE PRIVATE
DESIGNER: JAMES W. HARRIS, INC. (REGISTERED PROFESSIONAL ENGINEER)
FOR THE CITY OF ADDY AND ESTABLISHMENT OF THE MOBILE HOME PARK LOTS FOR MAINTENANCE.
EIRAT REQUIRED? (509) 477-3000
A. 15 DAY PERMIT BUSINESS DAYS PRIOR TO CONSTRUCTION.



TACOMA • SEATTLE • SPOKANE • TRI-CITIES
2215 North 37th Street, Suite 300 Tacoma, WA 98403
253.383.2422 Tel. 253.383.2572 Fax. www.ahbl.com 4018

Project Title:
**ELK RIDGE HEIGHTS
2ND ADDITION**

Client:
**D & J ELK RIDGE
HEIGHTS, LLC.**

1615 W PINEHILL ROAD
SPOKANE, WA 99216
509-991-7568

Job No. 2170084.10

Issue Set & Date:
PERMIT SET

11/22/2017



NOTICE
I HEREBY CERTIFY THAT THE ABOVE IS A TRUE AND CORRECT COPY OF THE ORIGINAL AS SUBMITTED TO THE CITY OF ADDY AND ESTABLISHMENT OF THE MOBILE HOME PARK LOTS FOR MAINTENANCE.

Revisions:

Sheet Title:
LOT LAYOUT PLAN

Designed by: EST Drawn by: EST Checked by: EMF

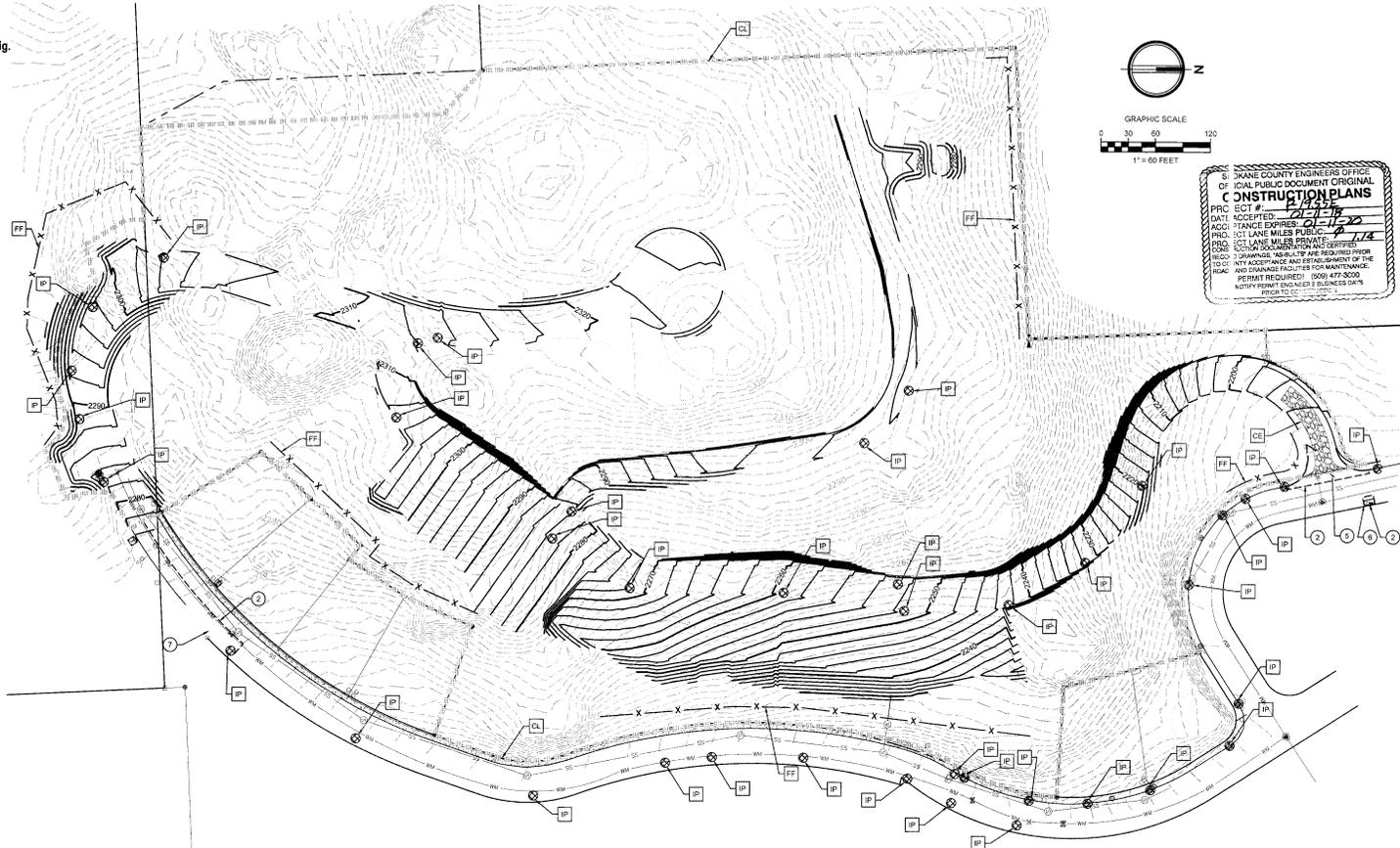
Sheet No.

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ELK RIDGE HEIGHTS 2ND ADDITION



SPokane County Engineers Office
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # **210064**
DATE ACCEPTED **01/17/20**
ACCURACY EXPIRES **01/17/25**
PROJ. DIST. **3/4** MILES PUBLIC **2/17/24**
PROJ. DIST. **3/4** MILES PRIVATE
ROADS TO BE MAINTAINED BY THE
OWNER. DRAINAGE ADJUSTMENTS ARE REQUIRED PRIOR
TO ANY ACCEPTANCE AND FURNISHMENT OF THE
ROAD AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED. 100% AT 2000.
ACTIVELY PERMIT ENGINEER'S BUSINESS DAYS
PROJECT NO. **210064**

KEY NOTES

- 1 EXISTING UTILITY AND APPURTENANCES TO BE REMOVED.
- 2 PROVIDE NEAT SAWCUT.
- 3 EXISTING TREES AND OTHER VEGETATION WITHIN CLEARING LIMITS TO BE REMOVED.
- 4 REMOVE AS NECESSARY FOR SANITARY SEWER & WATER CONNECTION
- 5 REMOVE EXISTING ASPHALT, CURB & GUTTER TO EDGE OF INTERSECTION.
- 6 REMOVE EXISTING CURB AND SIDEWALK.
- 7 REMOVE EXISTING CURB.

TESC LEGEND

- | | | | | | |
|----|--|-------------------------|----|--|------------------|
| CL | | CONSTRUCTION ENTRANCE | CL | | CLEARING LIMIT |
| IP | | INLET PROTECTION | IP | | INLET PROTECTION |
| CL | | PROJECT CLEARING LIMITS | FF | | SILT FENCE |

DEMOLITION LEGEND

- | | | |
|--------|------|---------|
| REMOVE | TREE | PROTECT |
| | | |

EROSION CONTROL NOTES

1. ALL DISTURBED AREAS SHALL BE STABILIZED INCLUDING THROUGH TEMPORARY SEEDING PER THE HYDROSEEDING NOTES ON SHEET C2.2
2. CONTRACTOR TO SWEEP DAILY TO REMOVE ANY TRACKED MUD OR DIRT FROM PAVED SURFACE.
3. ALL TOPOGRAPHIC INFORMATION IS SHOWN WITH CONTOUR INTERVALS OF 2' AND 10'.



TACOMA - SEATTLE - SPOKANE - TRICITIES
2215 North 30th Street, Suite 300, Tacoma, WA 98403
253.953.2422 Tel. 253.953.2572 Fax www.ahbl.com web

Original Title:
**ELK RIDGE HEIGHTS
2ND ADDITION**

Client:
**D & J ELK RIDGE
HEIGHTS, LLC.**

1616 W PINEHILL ROAD
SPOKANE, WA 99218
509-991-7568

Job No.
2170064.10

Issue Set & Date:
PERMIT SET

11/20/2017



NOTES
A listing of the information provided by the client is included on the title sheet. The client is responsible for the accuracy of the information provided. The engineer is not responsible for the accuracy of the information provided by the client.

Revision:
A
B
C
D
E

Sheet Title:
**TESC & DEMOLITION
PLAN**

Designed by: Drawn by: Checked by:
ERT ERT EMP

Sheet No.

C2.0



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ELK RIDGE HEIGHTS 2ND ADDITION



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253.383.9222 fax: 253.383.2872 www.ahbl.com

ELK RIDGE HEIGHTS 2ND ADDITION

Client:
**D & J ELK RIDGE,
HEIKS, LLC.**

1615 W PINHILL ROAD
SPOKANE, WA 99218
509-891-7568

Job No.: 2170064 10

Issue S&D Date:

PERMIT SET

11/20/2017



NOTE:
THIS SEAL IS VALID FOR THE STATE OF WASHINGTON.
IT IS THE RESPONSIBILITY OF THE USER TO VERIFY THE
VALIDITY OF THIS SEAL AND THE STATUS OF THE ENGINEER.
FOR MORE INFORMATION, VISIT: www.wa.gov

TESC STANDARD PLAN NOTES

1. THE CONSTRUCTION SEQUENCE ON SHEET C01 SHALL BE FOLLOWED IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL PROBLEMS.
2. INSPECT ALL ROADWAYS. AT THE END OF EACH DAY, ADJACENT TO THE CONSTRUCTION ACCESS ROAD. IF IT IS EVIDENT THAT SEDIMENT HAS BEEN TRACKED OFF SITE AND BEYOND THE ROADWAY APPROACH, CLEANING IS REQUIRED.
3. IF SEDIMENT REMOVAL IS NECESSARY PRIOR TO STREET WASHING, IT SHALL BE REMOVED BY SHOVELING OR PICKUP SWEEPING AND TRANSPORTED TO A CONTROLLED DISPOSAL AREA.
4. IF STREET WASHING IS REQUIRED TO CLEAN SEDIMENT TRACKED OFF SITE, ONCE SEDIMENT HAS BEEN REMOVED, STREET WASH WASTEWATER SHALL BE CONTROLLED BY PUMPING BACK ON SITE OR OTHERWISE PREVENTED FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO WATERS OF THE STATE.
5. RESTORE CONSTRUCTION ACCESS ROUTE EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITION.
6. RETAIN THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICAL.
7. INSPECT SEDIMENT CONTROL BMPs WEEKLY AT A MINIMUM, DAILY DURING A STORM EVENT, AND AFTER ANY DISCHARGE FROM THE SITE (STORMWATER OR NON-STORMWATER). THE INSPECTION FREQUENCY MAY BE REDUCED TO ONCE A MONTH IF THE SITE IS STABILIZED AND INACTIVE.
8. CONTROL FUGITIVE DUST FROM CONSTRUCTION ACTIVITY IN ACCORDANCE WITH THE STATE AND/OR LOCAL AIR QUALITY CONTROL AUTHORITIES WITH JURISDICTION OVER THE PROJECT AREA.
9. STABILIZE EXPOSED UNWORKED SOILS (INCLUDING STOCKPILES), WHETHER AT FINAL GRADE OR NOT, WITHIN 10 DAYS DURING THE REGIONAL DRY SEASON (JULY 1 THROUGH SEPTEMBER 30) AND WITHIN 5 DAYS DURING THE REGIONAL WET SEASON (OCTOBER 1 THROUGH JUNE 30). SOILS MUST BE STABILIZED AT THE END OF A SHIFT BEFORE A HOLIDAY WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. THIS TIME LIMIT MAY VARY AT THE DISCRETION OF 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 MANAGEMENT PERMIT.
10. PROTECT INLETS, DRYWELLS, CATCH BASINS AND OTHER STORMWATER MANAGEMENT FACILITIES FROM SEDIMENT, WHETHER OR NOT FACILITIES ARE OPERABLE.
11. KEEP ROADS ADJACENT TO INLETS CLEAN.
12. INSPECT INLETS WEEKLY AT A MINIMUM AND DAILY DURING STORM EVENTS.
13. CONSTRUCT STORMWATER CONTROL FACILITIES (DETENTION/RETENTION STORAGE POND OR SWALES) BEFORE GRADING BEGINS. THESE FACILITIES SHALL BE OPERATIONAL BEFORE THE CONSTRUCTION OF IMPERVIOUS SITE IMPROVEMENTS.
14. STOCKPILE MATERIALS (SUCH AS TOPSOIL) ON SITE, KEEPING OFF OF ROADWAY AND SIDEWALKS.
15. COVER, CONTAIN AND PROTECT ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCTS AND NONHAZARDOUS WASTES PRESENT ON SITE FROM VANDALISM (SEE CHAPTER 173-304 WAC FOR THE DEFINITION OF INERT WASTE). USE SECONDARY CONTAINMENT FOR ON-SITE FUELING TANKS.
16. CONDUCT MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM REPAIRS, SOLVENT AND DE-GREASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES THAT MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS, CLEAN ALL CONTAMINATED SURFACES IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT, IF RAINING, COVER EQUIPMENT OR VEHICLE, PERFORM EMERGENCY REPAIRS ON SITE USING TEMPORARY PLASTIC BENEATH THE VEHICLE.
17. CONDUCT APPLICATION OF AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, IN SUCH A MANNER, AND AT APPLICATION RATES, THAT MINIMIZES THE LOSS OF CHEMICALS INTO STORMWATER RUNOFF FACILITIES AMEND MANUFACTURER'S RECOMMENDED APPLICATION RATES AND PROCEDURES TO MEET THIS REQUIREMENT, IF NECESSARY.
18. INSPECT ON A REGULAR BASIS (AT A MINIMUM WEEKLY, AND DAILY DURING/ AFTER A RUNOFF PRODUCING STORM EVENT) AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPs TO ENSURE SUCCESSFUL PERFORMANCE OF THE BMPs. NOTE THAT INLET PROTECTION DEVICES SHOULD BE CLEANED AND REMOVED AND REFILL BEFORE SIX INCHES OF SEDIMENT CAN ACCUMULATE.
19. REMOVE TEMPORARY ESC BMPs WITHIN 30 DAYS AFTER THE TEMPORARY BMPs ARE NO LONGER NEEDED. PERMANENTLY STABILIZE AREAS THAT ARE DISTURBED DURING THE REMOVAL PROCESS.
20. A SITE LOG SHALL BE COMPLETED FOR THE PROJECT. THE SITE LOG SHALL INCLUDE THE RESULTS OF ALL SITE INSPECTIONS, SAMPLING AND OTHER RECORDS. FOR SITES ONE ACRE OR LARGER, INSPECTIONS MUST BE CONDUCTED BY A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL).

HYDROSEEDING NOTES

1. HYDROSEEDING SHALL BE APPLIED IN ACCORDANCE WITH THE ESC STANDARD PLAN NOTES ON THIS SHEET.
2. HYDROSEEDING TO BE THE FOLLOWING MIXTURE:

COMMON NAME	A	B	C	D
WINTER OR SPRING WHEAT (L)	50			
SPRING BARLEY (L)		50		
PERENNIAL OR TRITICALE ANNUAL CRYGESS (L)			50	
*STERILE WHEAT X WHEATGRASS HYBRID (H) + NATIVE PLANT SPECIES (H) + INTRODUCED, NON-NATIVE PLANT SPECIES (H)				15
3. SEE LBS/ACRE 10:20:20 FERTILIZER, 1500 LBS/ACRE WOOD FIBER CELLULOSE WITH 3 SOIL BINDER OR TACKING AGENT TO BE APPLIED WITH SEED MIXTURE.
4. SEED BEDS PLANTED BETWEEN MAY 1 AND AUGUST 31 WILL REQUIRE IRRIGATION AND OTHER MAINTENANCE AS NECESSARY TO FOSTER AND PROTECT THE ROOT STRUCTURE.
5. FOR SEED BEDS PLANTED BETWEEN OCTOBER 31 AND APRIL 30, AMORPHING OF THE SEED BED WILL BE NECESSARY (E.G., GEOTEXTILES, JUTE MAT, CLEAR PLASTIC COVERING).
6. BEFORE SEEDING, INSTALL NEEDED SURFACE RUNOFF CONTROL MEASURES SUCH AS GRADIENT TERRACES, INTERCEPTOR DIKES, SWALES, LEVEL SPREADERS AND SEDIMENT BASINS.
7. THE SEEDBED SHALL BE FIRM WITH A FAIRLY FINE SURFACE, FOLLOWING SURFACE ROUGHENING, PERFORM ALL OPERATIONS ACROSS OR AT RIGHT ANGLES TO THE SLOPE.
8. FERTILIZERS ARE TO BE USED ACCORDING TO SUPPLIER'S RECOMMENDATIONS. ROCKY AREAS SHOULD BE MINIMIZED, ESPECIALLY ADJACENT TO WATER BODIES AND WETLANDS.
9. SEED SHALL NOT BE USED IN AREAS SUBJECT TO WEAR BY CONSTRUCTION TRAFFIC.

CONSTRUCTION ENTRANCE NOTES

1. MATERIAL SHALL BE 4 INCH TO 8 INCH QUARRY SPALLS AND MAY BE TOP DRESSED WITH 1 INCH TO 3 INCH ROCK. (WSDOT STANDARD SPECIFICATIONS, SECTION 8-1.5)
2. THE ROCK PAD SHALL BE AT LEAST 12 INCHES THICK AND 50 FEET LONG. WIDTH SHALL BE THE FULL WIDTH OF THE VEHICLE INGRESS AND EGRESS AREA.
3. ADDITIONAL ROCK SHALL BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.
4. PAVED ROADS SHALL BE KEPT FREE OF SEDIMENT TRACKED FROM THE PROJECT SITE. SEDIMENT TRACKED ONTO ADJACENT PAVED SURFACES SHALL BE REMOVED DAILY BY WEEPING, WASHING TO SEDIMENT FROM ROAD SURFACE WILL NOT BE ALLOWED.
5. A TRUCK WHEEL WASH MAY BE REQUIRED TO BE INSTALLED AT ANY TIME UPON COUNTY'S REQUEST.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DUST CONTROL PER COUNTY REQUIREMENTS.

PLASTIC COVERING NOTES

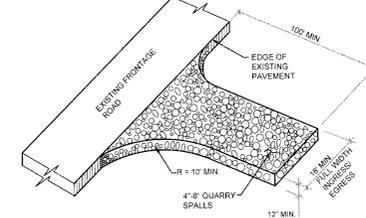
1. PLASTIC SHEETING SHALL HAVE A MINIMUM THICKNESS OF 6 MILS AND SHALL MEET THE REQUIREMENTS OF THE STATE STANDARD SPECIFICATIONS SECTION 9-1.4.5.
2. COVERING SHALL BE INSTALLED AND MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIES ON TOPS WITH A MAXIMUM 10 FOOT GRID SPACING IN ALL DIRECTIONS. ALL SEAMS SHALL BE TAPED OR WEIGHED DOWN FULL LENGTH AND THERE SHALL BE AT LEAST A 12 INCH OVERLAP OF ALL SEAMS.
3. CLEAR PLASTIC COVERING SHALL BE INSTALLED IMMEDIATELY ON AREAS SEEDING BETWEEN NOVEMBER 1 AND MARCH 31 AND REMAIN UNTIL VEGETATION IS FIRMLY ESTABLISHED.
4. WHEN THE COVERING IS USED ON UNSEEDED SLOPES, IT SHALL BE KEPT IN PLACE UNTIL THE NEXT SEEDING PERIOD.
5. PLASTIC COVERING SHEET SHALL BE BURIED TWO FEET AT THE TOP OF SLOPES IN ORDER TO PREVENT SURFACE WATER FLOW BENEATH SHEETS.
6. PROPER MAINTENANCE INCLUDES REGULAR CHECKS FOR RISPS AND DISLODGED ENDS.

FILTER FABRIC FENCE NOTES

1. FILTER FABRIC FENCE SHALL BE PURCHASED IN A CONTINUOUS ROLL AND CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER FABRIC SHALL BE SPliced TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY FASTENED AT BOTH ENDS TO POST.
2. POSTS SHALL BE SPACED A MAXIMUM OF 8 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30 INCHES).
3. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 9 INCHES WIDE AND 12 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER. THIS TRENCH SHALL BE BACKFILLED WITH WASHED GRAVEL.
4. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG. THE WIRES OR HOG RINGS, THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 24 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
5. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO FENCE, AND 20 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 24 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
6. WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING IS USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED, IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ABOVE NOTES APPLYING.
7. FILTER FABRIC FENCES SHALL NOT BE REMOVED BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
8. FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
9. SILT FENCES WILL BE INSTALLED PARALLEL TO SLOPE CONTOURS.
10. CONTRIBUTING LENGTH TO FENCE WILL NOT BE GREATER THAN 100 FEET.
11. DO NOT INSTALL BELOW AN OUTLET PIPE OR WEIR.
12. INSTALL DOWNSLOPE OF EXPOSED AREAS.
13. DO NOT DRIVE OVER OR FILL OVER SILT FENCES.

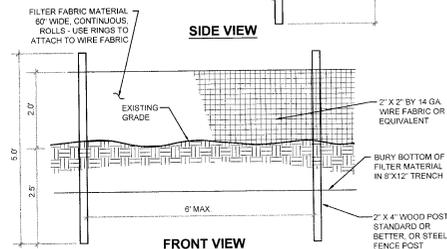
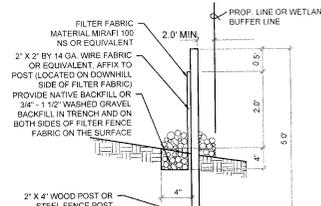
MULCHING NOTES

1. MULCH MATERIALS USED SHALL BE HAY OR STRAW, AND SHALL BE APPLIED AT THE RATE OF 2 TONS/ACRE, (MIN 2" THICK)
2. MULCHES SHALL BE APPLIED IN ALL AREAS WITH EXPOSED SLOPES GREATER THAN 1:1.
3. MULCHING SHALL BE USED IMMEDIATELY AFTER SEEDING OR IN AREAS WHICH CANNOT BE SEEDING BECAUSE OF THE SEASON.
4. ALL AREAS INCLUDING MULCH SHALL BE COVERED BY NOVEMBER 1.



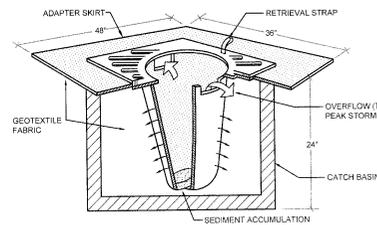
CONSTRUCTION ENTRANCE DETAIL

CE NOT TO SCALE



SILT FENCE DETAIL

FF NOT TO SCALE



INLET PROTECTION DETAIL

IP NOT TO SCALE

DESIGNED BY	DRAWN BY	CHECKED BY
ERT	ERT	EMF

TESC DETAILS

Sheet No.

C2.1

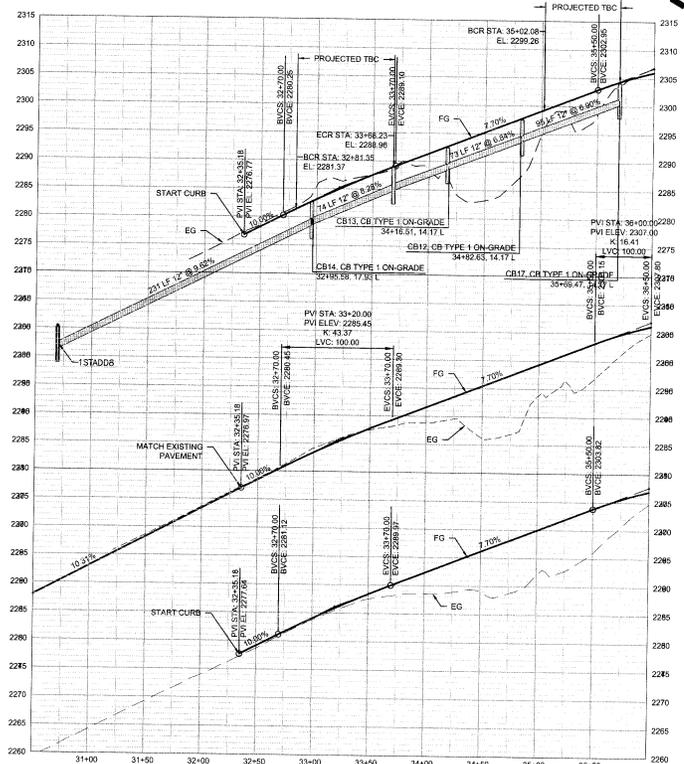
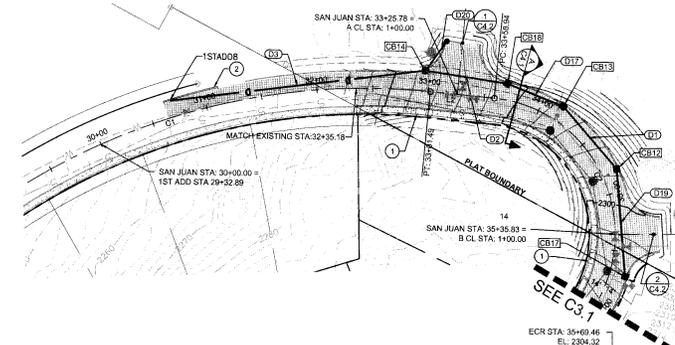


Know what's below.
Call before you dig.



HORIZONTAL SCALE
0 25 50 100
1" = 50 FEET

ELK RIDGE HEIGHTS 2ND ADDITION



STREET GENERAL NOTES

- REFER TO SHEETS C4.0 - DETAIL STREET & DRAINAGE FOR GENERAL STORMWATER NOTES AND SPECIFICATIONS.
- SPOT GRADES ARE TO TOP OF ASPHALT UNLESS OTHERWISE NOTED.
- STRUCTURE STATION AND OFFSET ARE TO CENTER OF GRADE.
- ALL CURB RETURNS SHALL BE 30' RADIUS AT BACK OF CURB UNLESS OTHERWISE SHOWN.
- GRATE INLETS TO BE CONSTRUCTED 1" LOWER THAN THE FLOW LINE OF THE CURB PER SPOKANE COUNTY STD PLAN B-18.
- 2" (MIN) COVER SHALL BE MAINTAINED OVER ALL STORM DRAIN PIPES.
- ALL TOPOGRAPHIC INFORMATION IS SHOWN WITH CONTOUR INTERVALS OF 2' AND 10'.
- CONTRACTOR SHALL VERIFY UTILITY SERVICE ELEVATIONS AT ALL CROSSINGS PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE IMPROVEMENTS.
- ALL STATIONING REFERENCES SAN JUAN LANE CENTERLINE ALIGNMENT.
- ALL STREET SIGNS SHALL MEET WSDOT BREAK-AWAY STANDARDS.
- CATCH BASIN TYPE 1 ON-GRADE WITH METAL GRATE TYPE 1 AND METAL FRAME TYPE 1 PER SPOKANE COUNTY STD PLANS B-4, B-12 AND B-10. INSTALLATION PER SPOKANE COUNTY STD PLAN B-7.
- CATCH BASIN TYPE 1 SAG WITH METAL GRATE TYPE 3 AND METAL FRAME TYPE 1 PER SPOKANE COUNTY STD PLANS B-4, B-14 AND B-10. INSTALLATION PER SPOKANE COUNTY STD PLAN B-7.
- ALL STREET SIGNS SHALL BE PER WSDOT BREAK-AWAY STANDARDS.

KEYNOTES

- CURB RAMP DESIGN 'A' PER SPOKANE COUNTY STD PLAN A-5. STA. 32+87.89 RT. STA. 35+03.08 RT.
- REPAIR TYPE R CURB AS NECESSARY FOR UTILITY CONSTRUCTION.

STORM STRUCTURE TABLE (P)

EXISTING TYPE 1 CC	EXISTING TYPE 1 CC
ISTADOB 50'x60', 14.82 L (CL-SANJUAN) RM = 2289.48 IE = 2288.98 (12" SW) IE = 2289.39 (12" SW)	CB12 34'x22', 14.17 L (CL-SANJUAN) RM = 2287.44 IE = 2288.84 (12" E) IE = 2293.74 (12" NW)
CB13 34'x22', 14.17 L (CL-SANJUAN) RM = 2289.25 IE = 2288.55 (12" E) IE = 2288.65 (12" W)	CB14 32'x95.58, 17.93 L (CL-SANJUAN) RM = 2282.59 IE = 2278.83 (12" NE) IE = 2278.70 (12" W) IE = 2278.70 (12" S)
CB17 35'x95.58, 17.93 L (CL-SANJUAN) RM = 2304.02 IE = 2293.30 (12" SE)	CB18 33'x88.23, 14.17 L (CL-SANJUAN) RM = 2288.84 IE = 2288.83 (12" E) IE = 2284.93 (12" W)

STORM PIPE TABLE

NAME	LENGTH	SLOPE	TYPE
D1	73'	6.64%	12" CRPE
D2	74'	8.28%	12" CRPE
D3	231'	9.62%	12" CRPE
D17	94'	6.75%	12" CRPE
D19	95'	6.90%	12" CRPE
D20	32'	16.46%	12" CRPE

CENTERLINE LINE TABLE

LINE #	LENGTH	DIRECTION
L2	67.45	S64° 58' 42.84" W

SPokane County Engineers Office
OFFICE: PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 217525
DATE ISSUED: 11/21/2017
DATE EXPIRES: 01-17-18
PROJECT AND MILES PUBLIC
PROJECT AND MILES PRIVATE
RECORD OR: INGS. MATERIALS ARE REQUIRED FROM
CONTRACTOR. CERTIFICATE AND STAMP REQUIRED FROM
OWNER AND: CHANGE FACILITIES FOR MAINTENANCE.
FEE: \$15 REQUIRED (1500) 177-3800
NOTE: *PERMITS ENGINEER BUSINESS DAYS
PROJECTS NOT FOR CONSTRUCTION

CENTERLINE CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD DIRECTION	START POINT	END POINT
C1	500.00	474.32	S41° 06' 50.99" W	N 243889.64 E 2525501.98	N 243546.28 E 2525042.49
C2	120.00	272.49	N49° 58' 10.31" W	N 243521.98 E 2529150.43	N 243661.96 E 2529023.81



TACOMA - SEATTLE - SPOKANE - TRICITIES
2215 North 30th Street, Suite 300, Tacoma, WA 98403
253.853.922 Tel. 253.803.2573 Fax. www.ahbl.com.wa

Project Title:
**ELK RIDGE HEIGHTS
2ND ADDITION**

Client:
**D & J ELK RIDGE
HEIGHTS, LLC.**

1615 W PINEHILL ROAD
SPOKANE, WA 99218
609-991-7269

Job No.: 2170094-10

Issue Set & Date:
PERMIT SET

11/20/2017



NOTICE
I, the undersigned, hereby certify that I am a duly licensed Professional Engineer in the State of Washington, and that I am the author of the design and drawings herein.

Revisions:
A
B
C
D

Sheet Title:
**SAN JUAN PLAN &
PROFILE**

Designed by: [Signature] Drawn by: [Signature] Checked by: [Signature]
ERT ERT EMF

Sheet No.

C3.0



Know what's below. Call before you dig.



HORIZONTAL SCALE
0 25 50 100
1" = 50 FEET

ELK RIDGE HEIGHTS 2ND ADDITION



TACOMA - SEATTLE - SPOKANE - TRI-CITIES

2215 North 30th Street, Suite 300 | Tacoma, WA 98403
252.962.0216 | 252.962.0212 FAX | www.ahbl.com

Project Title
**ELK RIDGE HEIGHTS
2ND ADDITION**

Client:
**D & J ELK RIDGE
HEIGHTS, LLC.**

1615 W PINEHILL ROAD
SPOKANE, WA 99218
509-891-1568

Job No.
2107904-10

Issue Set & Date:

PERMIT SET

11/20/2017



NOTE
I HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF WASHINGTON AND THAT I AM THE DESIGNER OF THE ABOVE PROJECT.



Revisions:

Sheet Title
**CROWS NEST PLAN &
PROFILE**

Designed by: ERT
Drawn by: ERT
Checked by: EMF

Sheet No.

C3.2

CROWSNEST DRIVE GENERAL NOTES

- REFER TO SHEETS C4.0 - DETAIL STREET & DRAINAGE FOR GENERAL STORMWATER NOTES AND SPECIFICATIONS.
- SPOT GRADES ARE TO TOP OF ASPHALT UNLESS OTHERWISE NOTED.
- STRUCTURE STATION AND OFFSET ARE TO CENTER OF GRADE.
- ALL CURB RETURNS SHALL BE 30' RADIUS AT BACK OF CURB UNLESS OTHERWISE SHOWN.
- GRATE INLETS TO BE CONSTRUCTED 1" LOWER THAN THE FLOW LINE OF THE CURB PER SPOKANE COUNTY STD PLAN B-10.
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- ALL STATIONING REFERENCES CROWS NEST LANE CENTERLINE ALIGNMENT.
- ALL STREET SIGNS SHALL MEET WSDOT BREAK-AWAY STANDARDS.
- CATCH BASIN TYPE 1: ON-GRADE WITH METAL GRATE TYPE 1 AND METAL FRAME TYPE 1 PER SPOKANE COUNTY STD PLANS B-4, B-12 AND B-10. INSTALLATION PER SPOKANE COUNTY STD PLAN B-7.
- CATCH BASIN TYPE 1 BAG WITH METAL GRATE TYPE 3 AND METAL FRAME TYPE 1 PER SPOKANE COUNTY STD PLANS B-4, B-14 AND B-10. INSTALLATION PER SPOKANE COUNTY STD PLAN B-7.
- ALL STREET SIGNS SHALL BE PER WSDOT BREAK-AWAY STANDARDS.



KEY NOTES

- CEMENT CONCRETE APPROACH PER SPOKANE COUNTY STD PLAN A-7. STA: 10+74.86
- CURB RAMP DESIGN "A" PER SPOKANE COUNTY STD PLAN A-5. STA: 7+98.99, 22.67' LT. STA: 8+01.79, 16.96' RT.
- STREET SIGN & DEAD END SIGN ON SINGLE POST

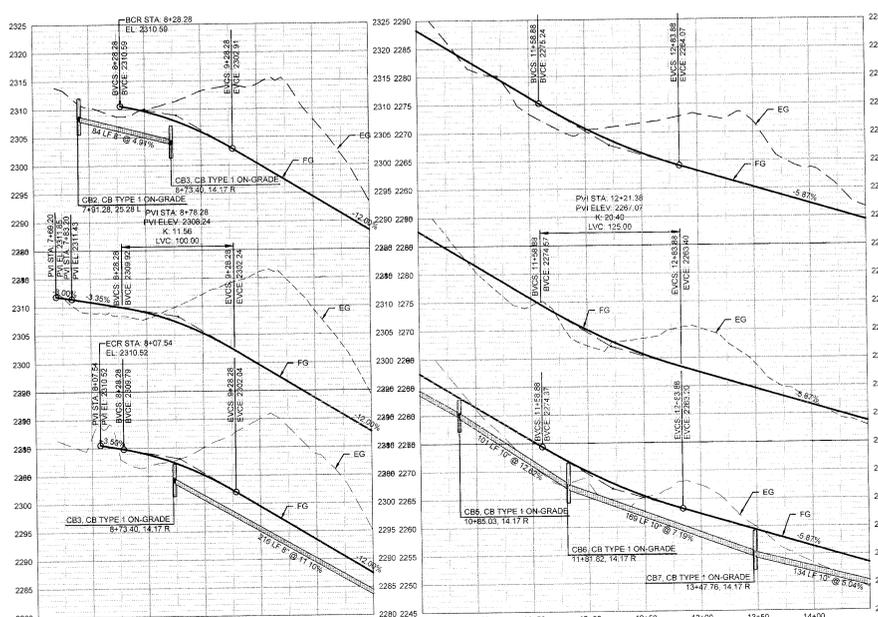
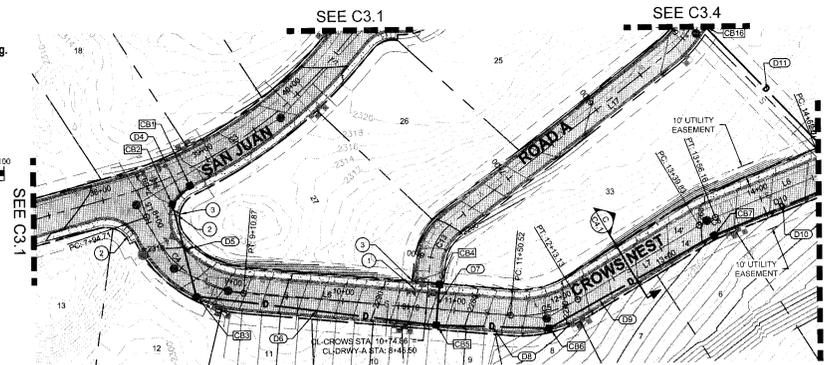
STORM PIPE TABLE			
NAME	LENGTH	SLOPE	TYPE
D4	23'	6.54%	8" CPEP
D5	84'	4.91%	8" CPEP
D6	216'	11.10%	8" CPEP
D7	36'	2.76%	8" CPEP
D8	101'	12.62%	10" CPEP
D9	169'	7.19%	10" CPEP
D10	134'	6.94%	10" CPEP

STORM STRUCTURE TABLE

CB	CB TYPE 1 ON-GRADE
CB2	7+91.29, 25.29' (CL-CROWS) RIM = 2311.91 IE = 2308.10 (8" SW) IE = 2308.00 (8" E)
CB3	CB TYPE 1 ON-GRADE 8+73.40, 14.17' R (CL-CROWS) RIM = 2307.00 IE = 2303.85 (8" W) IE = 2303.75 (8" NE)
CB4	CB TYPE 1 ON-GRADE 10+49.03, 22.17' L (CL-CROWS) RIM = 2282.32 IE = 2280.77 (8" SE)
CB5	CB TYPE 1 ON-GRADE 10+49.03, 14.17' R (CL-CROWS) RIM = 2282.91 IE = 2278.77 (8" SW) IE = 2279.60 (10" NE) IE = 2279.78 (8" NW)
CB6	CB TYPE 1 ON-GRADE 11+81.82, 14.17' R (CL-CROWS) RIM = 2271.42 IE = 2268.88 (8" SW) IE = 2268.78 (10" N)
CB7	CB TYPE 1 ON-GRADE 13+47.76, 14.17' R (CL-CROWS) RIM = 2258.12 IE = 2254.69 (10" S) IE = 2254.55 (10" N)

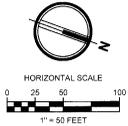
CENTERLINE LINE TABLE			
LINE #	LENGTH	DIRECTION	
L5	25.51	S78° 06' 49.05" E	
L6	239.65	N35° 19' 47.71" E	
L7	126.70	N0° 32' 33.30" W	
L8	105.91	N9° 48' 55.18" E	

CENTERLINE CURVE TABLE					
CURVE	RADIUS	LENGTH	CHORD DIRECTION	START POINT	END POINT
C4	100.00	116.16	N68° 36' 29.33" E	N: 243850.77 E: 2529100.43	N: 243890.80 E: 2529202.61
C5	100.00	62.61	N17° 23' 37.21" E	N: 244086.31 E: 2523541.19	N: 244145.06 E: 2523996.61
CB	100.00	16.33	N4° 08' 10.94" E	N: 244271.79 E: 2520398.41	N: 244288.05 E: 2520398.95

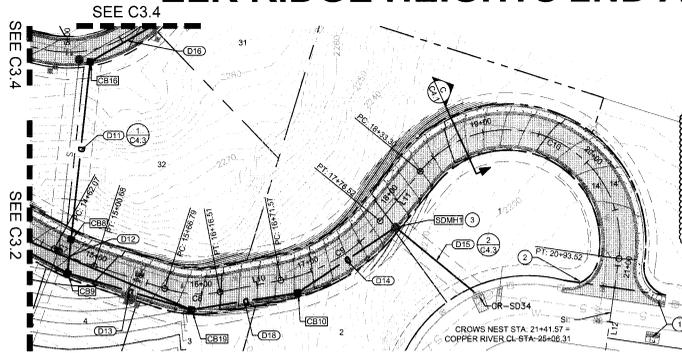




Know what's below.
Call before you dig.



ELK RIDGE HEIGHTS 2ND ADDITION



CONSTRUCTION PLANS

PROJECT # 17416
DATE ACCEPTED 12/1/17
PROJECT LANE MILE 1.21
CONSTRUCTION SCALE 1" = 40'

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
PERMIT REQUIRED: YES
NOTIFY PERMIT BY: 10/15/2018

CROWSNEST DRIVE GENERAL NOTES

- REFER TO SHEETS C4.0 - DETAIL STREET & DRAINAGE FOR GENERAL STORMWATER NOTES AND SPECIFICATIONS.
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- ALL STREET SIGNS SHALL BE PER WSDOT BREAK-AWAY STANDARDS.

KEY NOTES

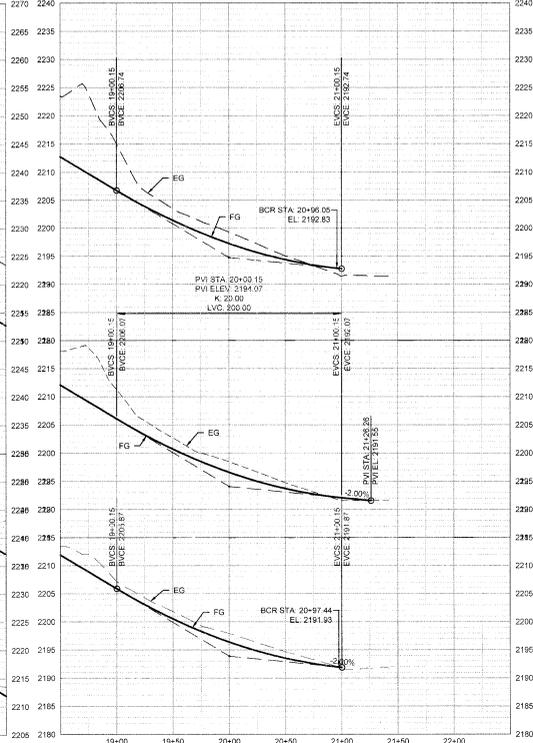
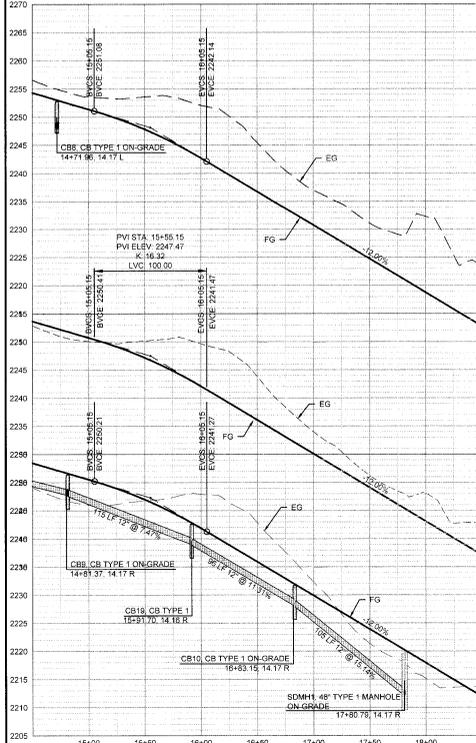
- CURB RAMP DESIGN "A" PER SPOKANE COUNTY STD PLAN A-5.
- STREET SIGN
- MANHOLE TYPE I-48 ON-GRADE WITH METAL FRAME TYPE 4 AND GRATE TYPE 4 PER SPOKANE COUNTY STD PLANS U2 AND B-15.

NAME	LENGTH	SLOPE	TYPE
D12	30'	0.81%	12" CPEP
D13	115'	7.47%	12" CPEP
D14	100'	15.14%	12" CPEP
D15	94'	28.85%	12" CPEP
D16	98'	11.31%	12" CPEP

NAME	TYPE	INLET	OUTLET
CB8	CB TYPE 1 ON-GRADE	14'4" x 8"	14'1" x 11" (CL-CROWS)
		RM = 2292.67	I = 2247.98 (12" E)
			E = 2248.98 (12" NW)
CB9	CB TYPE 1 ON-GRADE	14'8" x 37"	14'17" R (CL-CROWS)
		RM = 2293.28	I = 2247.61 (10" S)
			E = 2247.84 (12" N)
			E = 2247.74 (12" NW)
CB10	CB TYPE 1 ON-GRADE	16'4" x 15"	14'17" R (CL-CROWS)
		RM = 2231.58	I = 2228.11 (12" SE)
			E = 2228.01 (12" NW)
CB19	CB TYPE 1	16'4" x 30"	14'18" R (CL-CROWS)
		RM = 2242.50	I = 2238.05 (12" S)
			E = 2238.95 (12" NW)
CR-SD34	EXISTING TYPE 2 CB	27'21" x 17"	15.50 R (CL-COPPER)
		RM = 2199.63	I = 2198.98 (12" S)
SDMH1	48" TYPE 1 MANHOLE ON-GRADE	17'40" x 14.17 R (CL-CROWS)	RM = 2219.67
			I = 2212.17 (12" SE)
			E = 2212.07 (12" N)

LINE #	LENGTH	DIRECTION
L9	66.11	N3° 14' 39.44" W
L10	55.06	N30° 43' 59.18" W
L11	66.78	N70° 49' 19.02" W

CURVE	RADIUS	LENGTH	CHORD DIRECTION	START POINT	END POINT
C7	200.00	38.61	N3° 17' 07.87" E	N: 244362.72 E: 2529375.61	N: 244443.20 E: 2529378.02
C8	100.00	49.72	N10° 29' 19.31" W	N: 244497.26 E: 2529375.43	N: 244544.45 E: 2529361.47
C9	150.00	104.95	N50° 48' 39.10" W	N: 244697.77 E: 2529333.33	N: 244656.79 E: 2529265.87
C10	100.00	260.21	N3° 43' 23.83" E	N: 244675.45 E: 2529200.04	N: 244697.14 E: 2529212.56



TACOMA • SEATTLE • SPOKANE • TRI-CITIES
2218 North 36th Street, Suite 300 Tacoma, WA 98403
253.383.4222 Tel. 253.383.2972 Fax www.ahbl.com Web

ELK RIDGE HEIGHTS 2ND ADDITION

Client: **D & J ELK RIDGE HEIGHTS, LLC.**
1615 W PINEHILL ROAD
SPOKANE, WA 99218
509-691-7508

Job No. 2170094.10

PERMIT SET

1/20/2017



NOTICE: I HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF WASHINGTON AND THAT I AM THE DESIGNER OF THE ABOVE PROJECT.

- △
- △
- △
- △
- △

CROWSNEST PLAN & PROFILE

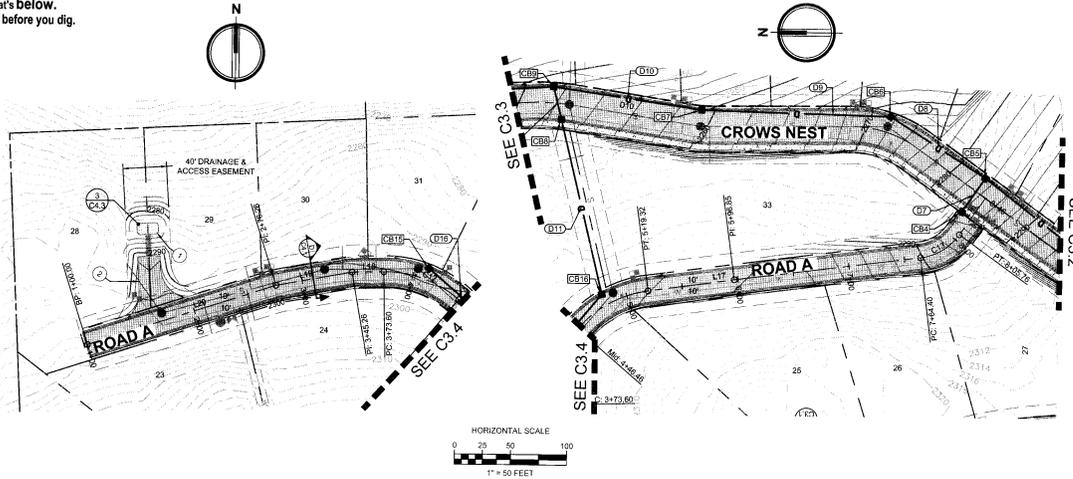
Designed by: [Signature] Drawn by: [Signature] Checked by: [Signature]

C3.3



Know what's below.
Call before you dig.

ELK RIDGE HEIGHTS 2ND ADDITION



DRIVEWAY A GENERAL NOTES

- REFER TO SHEETS C4.0 - DETAIL STREET & DRAINAGE FOR GENERAL STORMWATER NOTES AND SPECIFICATIONS.
- SPOT GRADES ARE TO TOP OF ASPHALT UNLESS OTHERWISE NOTED.
- STRUCTURE STATION AND OFFSET ARE TO CENTER OF GRATE.
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- GRATE INLETS TO BE CONSTRUCTED 1' LOWER THAN THE FLOW LINE OF THE CURB PER SPOKANE COUNTY STD PLAN B-18.
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- CATCH BASIN TYPE 1 SUMP WITH METAL GRATE TYPE 3 AND METAL FRAME TYPE 1 PER SPOKANE COUNTY STD PLANS B-4, B-14 AND B-10. INSTALLATION PER SPOKANE COUNTY STD PLAN B-7.
- ALL STREET SIGNS SHALL BE PER WSDOT BREAK-AWAY STANDARDS.

KEY NOTES

- POND A
DEPTH = 1'0"
POND BOTTOM: 2287.50
DIMENSIONS: 10' X 19'
- FIRE APPARATUS TURN AROUND

STORM STRUCTURE TABLE

STRUCTURE	TYPE	STATION	OFFSET	REMARKS
CB16	CB TYPE 1 SUMP	4+11.12	10' 17" (CL-DRWY-A)	RIM = 2293.51 IE = 2290.42 (12" SE)
CB16	CB TYPE 1 ON-GRADE	4+00.00	10' 17" (CL-DRWY-A)	RIM = 2284.05 IE = 2280.05 (12" IE) IE = 2280.05 (12" NW)

STORM PIPE TABLE

NAME	LENGTH	SLOPE	TYPE
D11	158'	26.40%	12" CPEP
D18	76'	0.50%	12" CPEP

CONSTRUCTION PLANS

SI - SPOKANE COUNTY ENGINEERS OFFICE
OF LOCAL PUBLIC DOCUMENT ORIGINAL

DATE: 01/17/16
 PROJECT: 01-17-16
 ACCY: 01-17-16
 EXPIRES: 01-17-20
 PROJECT: 01-17-16
 CT LANE MILES PUBLIC: 0.77
 CT LANE MILES PRIVATE: 0.77
 RECORD DRAWINGS: NO BUILDUP ARE REQUIRED PRIOR TO CITY ACCEPTANCE AND ESTABLISHMENT OF THE ROAD. NO DRAINAGE FACILITIES FOR MAINTENANCE PERMIT (REQUIRED) (600) 477-3003
 CITY PERMIT: ENGINEER'S BUSINESS DAYS PRIOR TO CONSTRUCTION



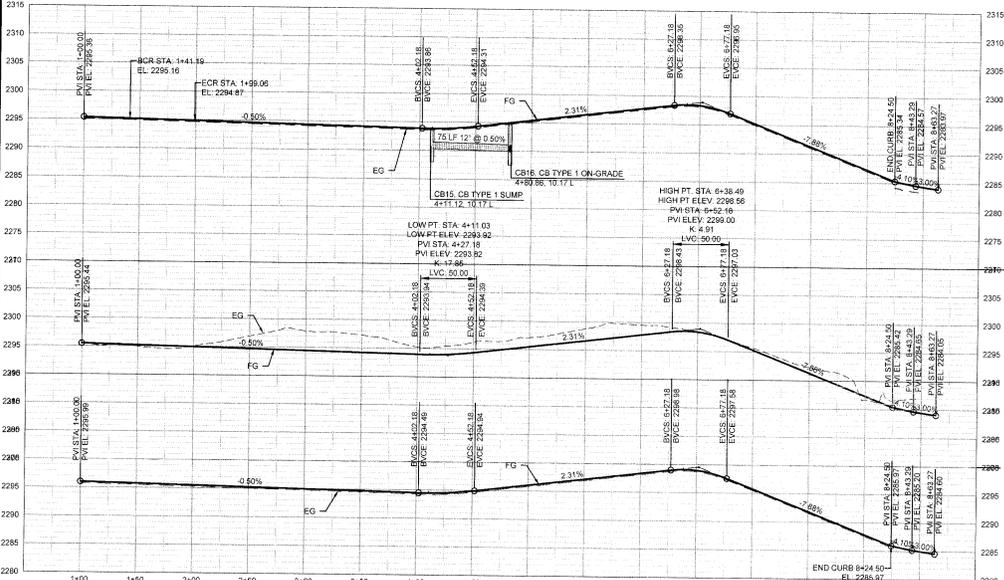
NOTICE: This drawing is the property of the Engineer. It is to be used only for the project and location specified. It is not to be reproduced, copied, or used for any other purpose without the written consent of the Engineer.

CENTERLINE LINE TABLE

LINE #	LENGTH	DIRECTION
L16	39.74	S54° 40' 12.29"E
L17	77.64	S7° 51' 56.00"E
L18	28.34	N88° 38' 34.88"E
L19	69.00	N79° 43' 34.70"E
L20	176.26	N72° 10' 52.13"E

CENTERLINE CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD DIRECTION	START POINT	END POINT
C12	100.00	145.73	S45° 30' 40.57"E	N 244411.32 E 252011.07	N 244325.04 E 252012.50
C13	50.00	41.30	S30° 58' 24.70"E	N 244082.03 E 2520244.33	N 244047.57 E 2520065.02



Sheet Title:
ROAD A PLAN & PROFILE

Designed by: ERT Drawn by: ERT Checked by: EMF

Sheet No.
C3.4



Know what's below.
Call before you dig.

ELK RIDGE HEIGHTS 2ND ADDITION

SPOKANE COUNTY STANDARD NOTES FOR ROAD AND DRAINAGE PLANS

- ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE LOCAL JURISDICTION ROAD STANDARDS (SPOKANE COUNTY ROAD STANDARDS), JANUARY 2010.
- PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 811 BEFORE YOU DIG.
- 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.
- THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE ACCEPTED ROAD AND DRAINAGE PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER.
- THE CONTRACTOR SHOULD TAKE PRECAUTIONS TO PROTECT THE INFILTRATION CAPACITY OF STORMWATER FACILITIES (E.G., LINE THE FACILITY WITH FILTER FABRIC, OVER-EXCAVATE UPON COMPLETION OF THE INFRASTRUCTURE, ETC.)
- FOR ANY CURB GRADES LESS THAN 0.8% (0.028 FT/FT), A PROFESSIONAL LAND SURVEYOR CURRENTLY LICENSED IN THE STATE OF WASHINGTON SHALL VERIFY THAT THE CURB FORMS ARE AT THE GRADES NOTED ON THE ACCEPTED PLANS. PRIOR TO PLACEMENT OF CONCRETE, THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING AND COORDINATING WORK WITH THE SURVEYOR.
- FOR CONSTRUCTION OF DRYWELLS, INSTALL A FILTER FABRIC (AMCO 4545 OR APPROVED EQUIVALENT) BETWEEN THE WASHED DRAIN ROCK AND THE NATIVE SOILS.
- BIO-INFILTRATION POND/SWALES SHALL HAVE A MAXIMUM TREATMENT DESIGN DEPTH FROM POND/SWALE BOTTOM TO ELEVATION OF DRYWELL GRATE OR FIRST OVERFLOW (IF/WH) MECHANISM OF 8 INCHES. EITHER ORGANIC MATTER CONTENT OR CATION EXCHANGE CAPACITY (CEC) TESTING SHALL BE COMPLETED IN ORDER TO SUBSTANTIATE THE TREATMENT SOIL COMPOSITION. THE TESTS SHALL BE PERFORMED ON COMPOSITE SAMPLES TAKEN FROM THE TREATMENT SOIL LAYER FROM THE CONSTRUCTED POND BOTTOM. A COMPOSITE SAMPLE CONSISTS OF WELL-MIXED SOIL OBTAINED FROM AT LEAST FOUR CORES TO A DEPTH OF AT LEAST 8 INCHES, RANDOMLY DISTRIBUTED OVER THE POND BOTTOM TEST AREA. STOCKPILE SAMPLES FROM ON-SITE OR A MATERIAL SUPPLIER CAN BE TESTED FOR INFORMATIONAL PURPOSES TO DETERMINE INITIAL SUITABILITY AND POSSIBLE SOIL AMENDMENTS, BUT WILL NOT BE ACCEPTED IN-PLACE TESTING. A MINIMUM OF ONE TEST SHALL BE PERFORMED FOR EACH BIO-INFILTRATION POND/SWALE (500 SQUARE FEET OR LESS, WITH ONE ADDITIONAL TEST FOR EACH ADDITIONAL 2,000 SQUARE FEET OF POND/SWALE BOTTOM, OR FRACTION THEREOF. ONE TEST IS EQUAL TO FOUR CORE SAMPLES TAKEN AS DESCRIBED ABOVE. TESTING RESULTS SHALL BE SUBMITTED AS PART OF THE CONSTRUCTION CERTIFICATION SUBMITTAL. REQUIRED FOR RELEASE OF SURETY POSTED ON PROJECT.
- CONCRETE APRONS ARE REQUIRED AT THE INLET INTO ANY SWALE OR POND. THE FINISH GRADE OF THE SWALE/POND SIDE SLOPE, WHERE THE CONCRETE INLET APRON ENDS, SHALL BE A MINIMUM OF 2 INCHES BELOW THE FINISHED ELEVATION OF THE CONCRETE CURB APRON EXTENSION. THE INTENTION IS TO ALLOW STORMWATER RUNOFF TO ENTER THE SWALE/POND UNOBSTRUCTED, WITHOUT BACKING UP INTO THE STREET AND GUTTER DUE TO SOIL OVERTGROWTH AT THE INLET.
- UNLINED POND AND BIOINFILTRATION SWALE BOTTOMS ARE EXPECTED TO INFILTRATE VIA THE POND FLOOR, AND THEREFORE, SHALL NOT BE HEAVILY COMPACTED. EQUIPMENT TRAFFIC SHALL BE MINIMIZED ON THE POND BOTTOMS. THE FACILITY SUBGRADE SHALL BE A MEDIUM TO WELL-DRAINING MATERIAL WITH A MINIMUM THICKNESS OF 48 INCHES AND A MINIMUM INFILTRATION RATE OF 0.15 INHR. THE FACILITY SHALL DRAIN WITHIN 72 HOURS OF A STORM EVENT. IF THE POND ALSO SERVES AS A WATER QUALITY TREATMENT FACILITY, THE TREATMENT ZONE (60D AND 12 INCHES OF TREATMENT SOIL SHALL BE A MEDIUM TO WELL-DRAINING MATERIAL, WITH A MINIMUM INFILTRATION RATE OF 0.25-0.50 INHR. SILTY LOAM OR LOAMY SOILS ARE PRESUMED TO HAVE AN INFILTRATIVE RATE THAT FALLS WITHIN THIS RANGE. SCARP THE FINISH GRADE OF THE POND BOTTOM PRIOR TO HYDROLOGICAL/GOODING TESTING THAT VERIFIES SUBGRADE MINIMUM INFILTRATION RATE IS REQUIRED BY THE LOCAL JURISDICTION PRIOR TO CONSTRUCTION CERTIFICATION TO ENSURE ADEQUATE DRAINAGE. INFILTRATIVE TESTING OF THE TREATMENT ZONE IS ONLY REQUIRED IF SOILS OTHER THAN SILTY LOAM OR LOAMY SOILS ARE PROPOSED.
- IF, DURING FINAL INSPECTION, IT IS FOUND THAT THE CONSTRUCTED POND OR SWALE DOES NOT CONFORM TO THE ACCEPTED DESIGN, THE SYSTEM SHALL BE RECONSTRUCTED SO THAT IT DOES COMPLY.
- REFER TO SHEET C1-3 - TESC DETAILS FOR EROSION AND SEDIMENT CONTROL. STANDARD PLAN NOTES.

GENERAL PROJECT NOTES

- AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE COUNTY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE PROJECT.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE COUNTY ENGINEER PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE COUNTY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS IN THESE PLANS.
- THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL 811 OR 1-800-424-5555 (CALL BEFORE YOU DIG HOTLINE) AT LEAST 48 HOURS IN ADVANCE. CALL SPOKANE COUNTY, CITY OF SPOKANE VALLEY FOR LOCATIONS OF PUBLICLY OWNED TRAFFIC SIGNALS. CALL WSDOT SIGNAL SHOP (800) 802-2619 FOR LOCATIONS OF STATE-OWNED TRAFFIC SIGNALS. THE APPLICANT AND APPLICANT'S ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A DISCREPANCY EXISTS.
- ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRE REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TRUE ELEVATIONS AND LOCATIONS OF HIDDEN UTILITIES. ALL VISIBLE ITEMS SHALL BE THE ENGINEER'S RESPONSIBILITY.
- THE CONTRACTOR SHALL INSTALL, REPLACE, OR RELOCATE ALL SIGNS AS SHOWN IN THE PLANS OR AS AFFECTED BY CONSTRUCTION.
- ALL CONSTRUCTION SURVEYING FOR EXTENSIONS OF PUBLIC FACILITIES SHALL BE DONE UNDER THE DIRECTION OF A WASHINGTON STATE LICENSED PROFESSIONAL LAND SURVEYOR OR PROFESSIONAL CIVIL ENGINEER.
- DURING CONSTRUCTION, ALL PUBLIC STREETS ADJACENT TO THIS PROJECT SHALL BE KEPT CLEAN OF ALL MATERIAL DEPOSITS RESULTING FROM ON-SITE CONSTRUCTION, AND EXISTING STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE COUNTY.
- A NPDES CONSTRUCTION STORMWATER GENERAL PERMIT & COVERAGE MAY BE REQUIRED BY THE WASHINGTON STATE DEPARTMENT OF ECOLOGY FOR THIS PROJECT. CONTACT THE DEPARTMENT OF ECOLOGY FOR MORE INFORMATION.
- ANY DISTURBANCE OR DAMAGE TO CRITICAL AREAS AND ASSOCIATED BUFFERS, OR SIGNIFICANT TREES DESIGNATED FOR PRESERVATION AND PROTECTION SHALL BE MITIGATED IN ACCORDANCE WITH A MITIGATION PLAN REVIEWED AND APPROVED BY THE COUNTY. PREPARATION AND IMPLEMENTATION OF THE MITIGATION PLAN SHALL BE AT THE DEVELOPER'S EXPENSE.

GENERAL STORMWATER NOTES

- DURING CONSTRUCTION AND UNTIL FINAL SITE STABILIZATION, ALL EXISTING AND NEWLY INSTALLED DRAINAGE STRUCTURES SHALL BE PROTECTED FROM SEDIMENTS.
- ALL DRAIN PIPES SHALL BE Laid ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS. SECTION 7-08. THIS SHALL INCLUDE NECESSARY LEVELING OF THE TRENCH BOTTOM ON THE TOP OF FOUNDATION MATERIAL AS WELL AS PLACEMENT AND COMPACTION OF REQUIRED BEDDING MATERIAL TO UNIFORM GRADE SO THAT THE ENTIRE LENGTH OF PIPE WILL BE SUPPORTED ON A DENSE UNYIELDING BASE. IF NATIVE MATERIAL IN THE TRENCH BOTTOM MEETS REQUIREMENTS FOR WSDOT GRAVEL BACKFILL FOR PIPE BEDDINGS, THEN THE FIRST LIFT OF PIPE BEDDING MAY BE UNGRADED PROVIDED THE TRENCH BOTTOM MATERIAL IS LOCKED, REGRADED AND COMPACTED TO FORM A DENSE UNYIELDING BASE.
- ALL PAVED AREAS SHALL DRAIN TO CATCH BASINS. RUN GRADE IN STRAIGHT LINE/PLANE BETWEEN SPOT ELEVATIONS SHOWN ON THE PLANS. MAKE ADJUSTMENTS IN GRADE TO AVOID STANDING WATER. TAKE SPECIAL CARE AT CATCH BASINS TO AVOID "BIRD BATHS" IN SURROUNDING PAVEMENT.
- ALL CATCH BASIN GRATES SHALL BE ADJUSTED TO FINAL GRADES UPON COMPLETION OF PAVING.
- OPEN PIPE SHALL BE CORRUGATED POLYETHYLENE STORM SEWER PIPE PER WSDOT 7-04 MEETING THE REQUIREMENTS OF AASHTO M284 TYPE S.



DATE OF THIS SEAL: 11/21/2007

THIS SEAL IS VALID FOR THE STATE OF WASHINGTON ONLY. IT IS NOT VALID FOR ANY OTHER STATE OR COUNTRY. IT IS NOT VALID FOR ANY OTHER PROFESSION. IT IS NOT VALID FOR ANY OTHER TYPE OF WORK.

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Know what's below.
Call before you dig.

ELK RIDGE HEIGHTS 2ND ADDITION



TACOMA - SEATTLE - SPOKANE - TRI-CITIES
2215 North 30th Street, Suite 300 Tacoma, WA 98403
253.383.2422 Tel. 253.383.2572 Fax www.ahbl.com web

Project Title: ELK RIDGE HEIGHTS 2ND ADDITION

Client:
**D & J ELK RIDGE
HEIGHTS, LLC.**

1615 W PINEHILL ROAD
SPOKANE, WA 99218
509-991-7568

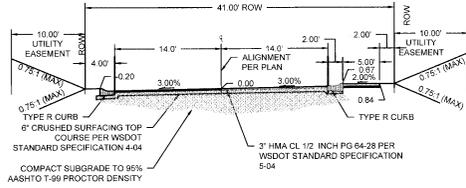
Job No. 2170094-10

Issue Set & Date:
PERMIT SET

11/29/2017



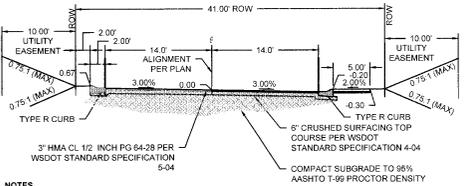
NOTICE
I HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF WASHINGTON AND THAT I AM THE DESIGNER OF THE ABOVE PROJECT AND THAT I AM NOT PROVIDING ENGINEERING SERVICES TO ANY OTHER PARTY FOR THIS PROJECT OR ANY OTHER PROJECT.



NOTES
1 DAYLIGHT SLOPES IN ROCK CUT AREAS ARE 3/4:1 (MAX).

A PRIVATE ROAD TYPE A

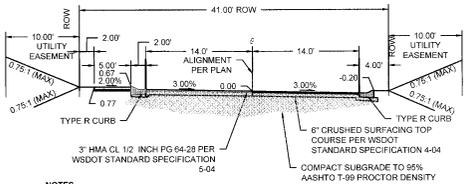
NOT TO SCALE
SAN JUAN STA 32+38.34 - STA 37+90.00



NOTES
1 DAYLIGHT SLOPES IN ROCK CUT AREAS ARE 3/4:1 (MAX).

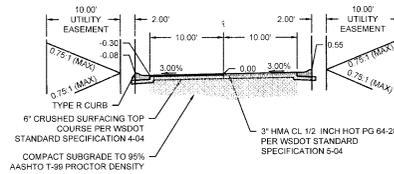
B PRIVATE ROAD TYPE B

NOT TO SCALE
SAN JUAN STA 38+78.32 - STA 40+74.05



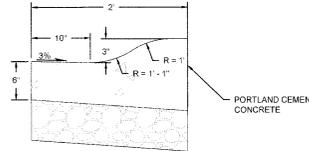
C PRIVATE ROAD TYPE C

NOT TO SCALE
CROWNS NEST STA 8+28.26 - 20+34.21



D PRIVATE ROAD TYPE D

NOT TO SCALE



1 TYPE R CURB DETAIL

NOT TO SCALE

KANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #:
DATE ACCEPTED:
ACCEPTANCE EXPIRES:
PROJECT: 1 LANE MILES PUBLIC
DRAWN BY: J. L. MILES
CHECKED BY: J. L. MILES
SECURE DRAWINGS - ALL RIGHTS RESERVED FROM
TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE
ROADWAY OR PRIVATE FACILITIES FOR MAINTENANCE.
ERECT REQUIRED! (800) 477-3600
1. IPI PERMIT FINANCIAL BUSINESS DATA
PRIOR TO CONSTRUCTION

Revisions:

Sheet Title:
**DETAIL STREET &
DRAINAGE**

Designed by: ERT
Drawn by: ERT
Checked by: EMF

Sheet No.

C4.1



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ELK RIDGE HEIGHTS 2ND ADDITION



TACOMA · SEATTLE · SPOKANE · TRI-CITIES
2215 North 30th Street, Suite 300 Tacoma, WA 98403
253.383.2422 TEL 253.383.2572 FAX www.ahbl.com WEB

Project Title:
**ELK RIDGE HEIGHTS
2ND ADDITION**

Client:
**D & J ELK RIDGE
HEIGHTS, LLC.**

1815 W PINEHILL ROAD
SPOKANE, WA 99218
509-991-7566

Job No.
2170094.10

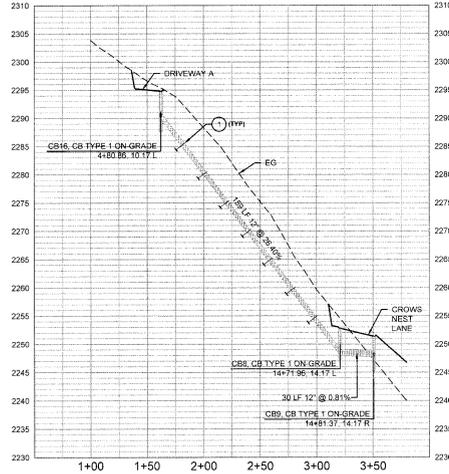
Issue Set & Date:

PERMIT SET

11/20/2017



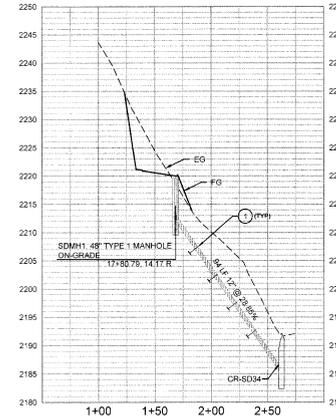
NOTES:
A Note on this permit set, required to
obtain a permit for the proposed work,
is located on the back of this permit set.
It is the responsibility of the permit holder
to obtain a copy of the permit set and
read it in full prior to the start of work.



KEYNOTES

- 1 PIPE ANCHORS TO BE INSTALLED AT EVERY JOINT.

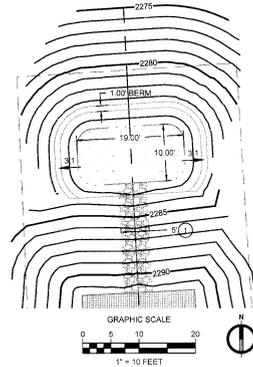
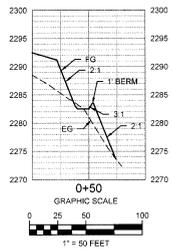
1 DRAINAGE PROFILE D11
SCALE: 1" = 30'



KEYNOTES

- 1 PIPE ANCHORS TO BE INSTALLED AT EVERY JOINT.

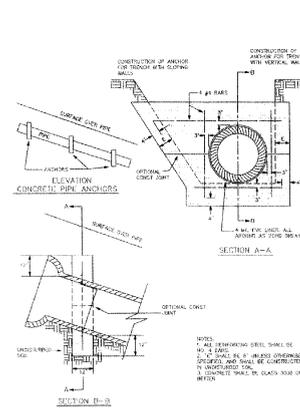
2 DRAINAGE PROFILE D15
SCALE: 1" = 30'



KEYNOTES

- 1 4" RIP RAP

3 POND A PLAN & PROFILE



4 PIPE ANCHOR DETAIL
NOT TO SCALE

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Revisions:

Sheet Title:
**DETAIL STREET &
DRAINAGE**

Designed by: ERT Drawn by: ERT Checked by: EMP

Sheet No.

C4.3