CITY OF WOODINVILLE

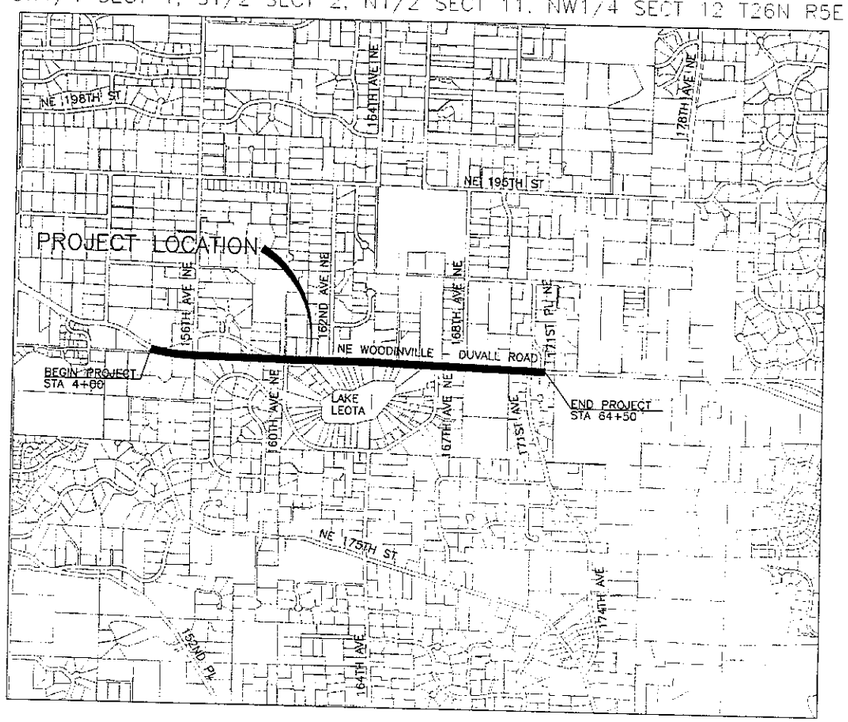
WOODINVILLE–DUVALL ROAD WIDENING PROJECT

85% REVIEW OCTOBER 2011

PROJECT # PW10–XX

EXHIBIT 3
PAGE 1 OF 114

SW1/4 SECT 1, S1/2 SECT 2, N1/2 SECT 11, NW1/4 SECT 12 T26N R5E



VICINITY MAP

NTS

SHEET NO.	DRAWING NO.	SHEET TITLE & DESCRIPTION
1.00		COVER SHEET, VICINITY MAP, AND INDEX
1.01		LEGEND, ABBREVIATIONS, AND SUMMARY OF QUANTITIES
1.02–1.03		RIGHT–OF–WAY, SURVEY, AND HORIZONTAL CONTROL PLAN
2.00–2.06		TESC AND DEMOLITION PLAN
3.00–3.15		ROADWAY AND DRAINAGE PLAN AND PROFILE
3.16		ROADWAY PROFILES
3.17–3.18		DRIVEWAY PROFILES
3.20		ROADWAY DETAILS
3.21–3.24		DRAINAGE DETAILS
4.00–4.07		SIGNING AND STRIPING PLAN
5.00–5.06		WALL PLAN AND ELEVATION
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6.00–6.06		LANDSCAPE PLAN
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6.10–6.15		IRRIGATION PLANS
6.16–6.XX		IRRIGATION DETAILS
7.00–7.06		ILLUMINATION AND INTERCONNECT PLAN
7.07		ILLUMINATION SCHEDULES, NOTES, AND DETAILS
8.00		156TH AVE NE SIGNAL PLAN
8.01		160TH AVE NE SIGNAL PLAN
8.02		156TH AVE SIGNAL NOTES AND DETAILS
8.03		156TH AVE NE SIGNAL POLE CHART
8.04–8.05		165TH AVE NE WIRING DIAGRAM
8.11		160TH AVE NE SIGNAL PLAN
8.12		160TH AVE NE SIGNAL NOTES AND DETAILS
8.13		160TH AVE NE SIGNAL POLE CHART
8.14–8.15		160TH AVE NE WIRING DIAGRAM
8.21		168TH AVE NE SIGNAL PLAN
8.22		168TH AVE NE SIGNAL NOTES AND DETAILS
8.23		168TH AVE NE SIGNAL POLE CHART
8.24–8.25		168TH AVE NE WIRING DIAGRAM
8.31		CONTROLLER/SREVICE/BPS DETAILS
8.32		FOUNDATION AND RISER DETAILS, AND SIGNAL NOTES
8.33		VIDEO DETECTION CAMERA DETAILS
8.34		156TH AVE NE TEMPORARY SIGNAL PLANS
8.35		165TH AVE NE TEMPORARY SIGNAL DETAILS
8.36		168TH AVE NE TEMPORARY SIGNAL PLANS
8.37		168TH AVE NE TEMPORARY SIGNAL DETAILS
9.01		WETLAND/STREAM CONCEPTUAL MITIGATION
8.37		WOODIN CREEK MITIGATION CONCEPTS
W1–W16		WATER MAIN REPLACEMENT SHEETS

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DEPUTY MAYOR
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COUNCIL MEMBERS
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SCOTT HAGEMAN
SUSAN BOUNDY–SAUNDERS
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CITY MANAGER
RICHARD A. LEAHY

PUBLIC WORKS DIRECTOR
THOMAS E. HANSEN, P.E.

PROJECT MANAGER
RACHEL E. SPEER, P.E.

APPROVED FOR CONSTRUCTION

DATE

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JACO M. VANDERHORST
STATE OF WASHINGTON
30792
REGISTERED PROFESSIONAL ENGINEER

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PROJECT INFORMATION
WOODINVILLE–DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
COVER SHEET VICINITY MAP AND INDEX

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10–XXXX
DRAWN BY:	SCALE: NO SCALE
SHEET X OF X	
DRAWING NO.: 1.00	

Plotted: Oct 17, 2011 – 4:37pm Chorline: K:\project\31400\31423\Dwg\1.00.dwg Layout Name: COVER

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		RIGHT-OF-WAY LINE
18	18	TOPOGRAPHIC CONTOUR
20	20	TOPOGRAPHIC CONTOUR (INDEX)
W		WATER LINE
SS	SS	SANITARY SEWER LINE
SD		STORM DRAIN LINE (SOLID)
		STORM DRAIN CULVERT
G		GAS LINE
	JUT	JOINT UTILITY TRENCH
P	P	POWER LINE
T	T	TELEPHONE LINE
x x		CHAIN LINK FENCE
		WOOD FENCE
		WATER METER
		FIRE HYDRANT
		WATER VALVE
		BLOW OFF ASSEMBLY
		SANITARY MANHOLE
		CLEAN OUT
		STORM DRAIN MANHOLE
		STORM DRAIN CATCH BASIN
		GAS VALVE
		GAS METER
		UTILITY POLE
		GUY ANCHOR
		UTILITY POLE W/ LIGHT
		LIGHT
		STREET LIGHT
		TRAFFIC SIGNAL POLE
		PEDESTRIAN SIGNAL
		TRAFFIC SIGNAL CABINET
	PV S J	POWER VAULT
		POWER TRANSFORMER
		TELEPHONE VAULT
		TELEPHONE MANHOLE
		TELEPHONE RISER
		ELECTRICAL MANHOLE
		ELECTRICAL HAND HOLE
		ELECTRICAL METER
		CABLE TV RISER
		CABLE TV MANHOLE
		SIGN
		JERSEY BARRIER
		RETAINING WALL
		ROCK WALL
		MAIL BOX(ES)
		CONIFER TREE
		DECIDUOUS TREE
		STUMP

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LEGEND (CONT.)

EXISTING	PROPOSED	DESCRIPTION
		IRRIGATION CONTROL BOX
		MONITORING WELL
		SURVEY CONTROL POINT
		SURVEY MONUMENT
#		PROPERTY ADDRESS
		BIO-RETENTION SWALE
	#	REFERENCE CURB RETURN DATA TABLE ON SHEET 3.14
		3" ASPHALT CONCRETE PAVEMENT OVERLAY
		FULL DEPTH ASPHALT CONCRETE PAVEMENT
		CEMENT CONCRETE SIDEWALK
		REMOVE EXIST PAVEMENT
		PLANE BITUMINOUS PAVEMENT
		INLET PROTECTION
	//	HIGH VISIBILITY FENCE
	x //	COMBINED SILT/HIGH VISIBILITY FENCE
	x	SILT FENCE
		CLEARING LIMITS
		TEMPORARY CONSTRUCTION PERMIT
		SAWCUT LINE
		REMOVE EXISTING STORM DRAIN
		STABILIZED CONSTRUCTION ENTRANCE
		WETLAND
		GEOTEXTILE ENCASED CHECK DAM

ABBREVIATIONS

ABBREVIATION	NAME OR PHRASE
AP	ANGLE POINT
APPROX.	APPROXIMATELY
ASPH	ASPHALT
ASSY	ASSEMBLY
BOW	BOTTOM OF WALL
CB	CATCH BASIN
℄	CENTERLINE
CO	CLEAN OUT
CONC.	CONCRETE
CONT.	CONTINUE OR CONTINUOUS
COR	CITY OF REDMOND
CSBC	CRUSHED SURFACING BASE COURSE
CSTC	CRUSHED SURFACING TOP COURSE
DIAM.	DIAMETER
E	EAST
ELEV.	ELEVATION
ESMT	EASEMENT
EXIST.	EXISTING
FIG.	FIGURE
FL	FLOW LINE (ELEVATION)
FOC	FACE OF CURB
GRVL	GRAVEL
HMA	HOT MIX ASPHALT
IE	INVERT ELEVATION
JT.	JOINT
KC	KING COUNTY

ABBREVIATION (CONT.)

ABBREVIATION	NAME OR PHRASE
LF	LINEAL FEET
MAX.	MAXIMUM
MIC	MONUMENT IN CASE
MIN.	MINIMUM
NE	NORTHEAST
NO.	NUMBER
NW	NORTHWEST
O.C.	ON CENTER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENCY
R	RADIUS
R/W	RIGHT-OF-WAY
S	SOUTH
SD	STORM DRAIN
SE	SOUTHEAST
SPA.	SPACE OR SPACING
SPEC.	SPECIFICATIONS
STA	STATION
STD	STANDARD
SW	SOUTHWEST
TEMP.	TEMPORARY
TESC	TEMP. EROSION & SEDIMENT CONTROL
TOC	TOP OF CURB
TOW	TOP OF WALL

Item No.	Spec. Section	Item Description	Quantity	Unit
		PREPARATION		
1	1-05	Roadway Surveying	1	LS
2	1-07	Spill Prevention, Control & Countermeasures Plan	1	LS
3	1-09	Mobilization	1	LS
4	2-01	Clearing and Grubbing	1	LS
5	2-02	Removal of Structure and Obstruction	1	LS
6	2-02	Sawcutting		LF
		GRADING		
7	2-03	Roadway Excavation Including Haul		CY
8	2-03	Gravel Borrow Including Haul		TN
9	2-03	Unsuitable Foundation Excavation Incl. Haul (If Required)		CY
		STORM DRAINAGE		
10	7-01	Drain Pipe 6 In. Diam.		LF
11	7-01	Underdrain Pipe 6 In. Diam.		LF
12	7-04	Corrugated Polyethylene Storm Sewer Pipe, 12 In. Diam.		LF
13	7-04	Corrugated Polyethylene Storm Sewer Pipe, 18 In. Diam.		LF
14	7-04	Corrugated Polyethylene Storm Sewer Pipe, 24 In. Diam.		LF
15	7-04	Corrugated Polyethylene Storm Sewer Pipe, 30 In. Diam.		LF
16	7-05	Catch Basin Type 1		EA
17	7-05	Catch Basin Type 1L		EA
18	7-05	Catch Basin Type 2, 48 In. Diam.		EA
19	7-05	Storm Filter Catch Basin		EA
20	7-05	Catch Basin Type 2, 60 In. Diam.		EA
21	7-05	Catch Basin Type 2, 72 In. Diam.		EA
22	7-05	Connection to Drainage Structure		EA
23	7-05	Adjust Catch Basin or Manhole		EA
24	7-05	Stormwater Vault #1	1	LS
25	7-05	Stormwater Vault #2	1	LS
26	7-05	Sand Filter Vault	1	LS
27	7-08	Shoring or Extra Excavation Class B	1	LS
		SURFACING AND PAVEMENT		
28	4-04	Crushed Surfacing Top Course		TN
29	4-04	Crushed Surfacing Base Course		TN
30	5-04	HMA CL. 1/2" PG 64-22		TN
31	5-04	Asphalt Treated Base		TN
32	5-04	Planing Bituminous Pavement		SY
		STRUCTURES		
33	6-16	Shaft - 2'-0" Diameter		LF
34	6-16	Furnishing Soldier Pile - W12-26		LF
35	6-16	Lagging		SF
36	6-16	Prefabricated Drainage Mat		SY
37	6-16	Concrete Fascia Panel		SF
		SIDEWALK AND CURB		
38	8-04	Cement Concrete Traffic Curb and Gutter		LF
39	8-04	Cement Concrete Traffic Curb		LF
40	8-06	Cement Concrete Driveway Entrance Type 1		SY
41	8-06	Cement Concrete Driveway Entrance Type 3		SY
42	8-06	Cement Concrete Driveway		SY
43	8-14	Cement Concrete Sidewalk		SY
44	8-14	Cement Concrete Sidewalk Ramp Type Perpendicular A		EA
45	8-14	Cement Concrete Sidewalk Ramp Type Flared Parallel		EA
46	8-14	Cement Concrete Sidewalk Ramp Type Parallel A		EA
		TRAFFIC		
47	1-10	Project Temporary Traffic Control	1	LS
48	8-21	Permanent Signing	1	LS
49	8-07	Precast Dual Faced Sloped Mountable Curb		LF
50	8-22	Paint Line		LF
51	8-22	Painted Wide Lane Line		LF
52	8-22	Profiled Plastic Wide Lane Line		LF
53	8-09	Raised Pavement Marker Type 2		HUND
54	8-22	Plastic Stop Line		LF
55	8-22	Plastic Crosswalk Line		SF
56	8-22	Plastic Traffic Arrow		EA
57	8-22	Plastic Bike Lane Symbol		EA
58	8-20	Traffic Signal System Complete Including Interconnect	1	LS
59	8-20	Temporary Traffic Signal System	1	LS
60	8-20	Illumination System, PSE Pole Mount	1	LS
61	8-20	Radar Speed Sign	1	LS
		TESC AND PLANTING		
62	8-01	Inlet Protection		EA
63	8-01	Silt Fence		LF
64	8-01	Check Dam		LF
65	8-01	ESC Lead		DAY
66	8-01	Street Cleaning		HR
67	8-01	Plastic Covering		SY
68	8-01	High Visibility Fence		LF
69	8-01	Stabilized Construction Entrance		SY
70	8-01	Seeding, Fertilizing, and Mulching		ACRE
71	8-02	Fine Bark Mulch		CY
72	8-02	Topsoil Type A		CY
73	8-02	PSIPE Trees		EA
74	8-02	PSIPE 2-gallon		EA
75	8-02	PSIPE 1 gallon		EA
76	8-02	PSIPE bulb		EA
77	8-03	Irrigation System	1	LS
		OTHER ITEMS		
78	1-04	Minor Change		$
79	8-02	Property Restoration		$
80	8-13	Monument Case and Cover		EA
81	1-09	Project Identification Sign		EA
82	8-15	Quarry Spalls		TN
83	2-11	Trimming and Cleanup	1	LS
84	8-18	Mailbox Relocation		EA
85	8-24	Modular Block Wall		SF
86	8-12	Chainlink Fence		LF
87	8-26	Handrail		LF
88	8-20	Adjust Existing Utility Box to Finish Grade		EA

ABBREVIATION (CONT.)

ABBREVIATION	
TYP.	TYPICAL
WS	WATER SURFACE
WSDOT	WA. STATE DEPT. OF TRANSPORTATION
WQ	WATER QUALITY

EXHIBIT 3
PAGE 2 OF 114

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PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
LEGEND, ABBREVIATIONS, AND SUMMARY OF QUANTITIES

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE:
SHEET X OF X	
DRAWING NO.: 1.01	

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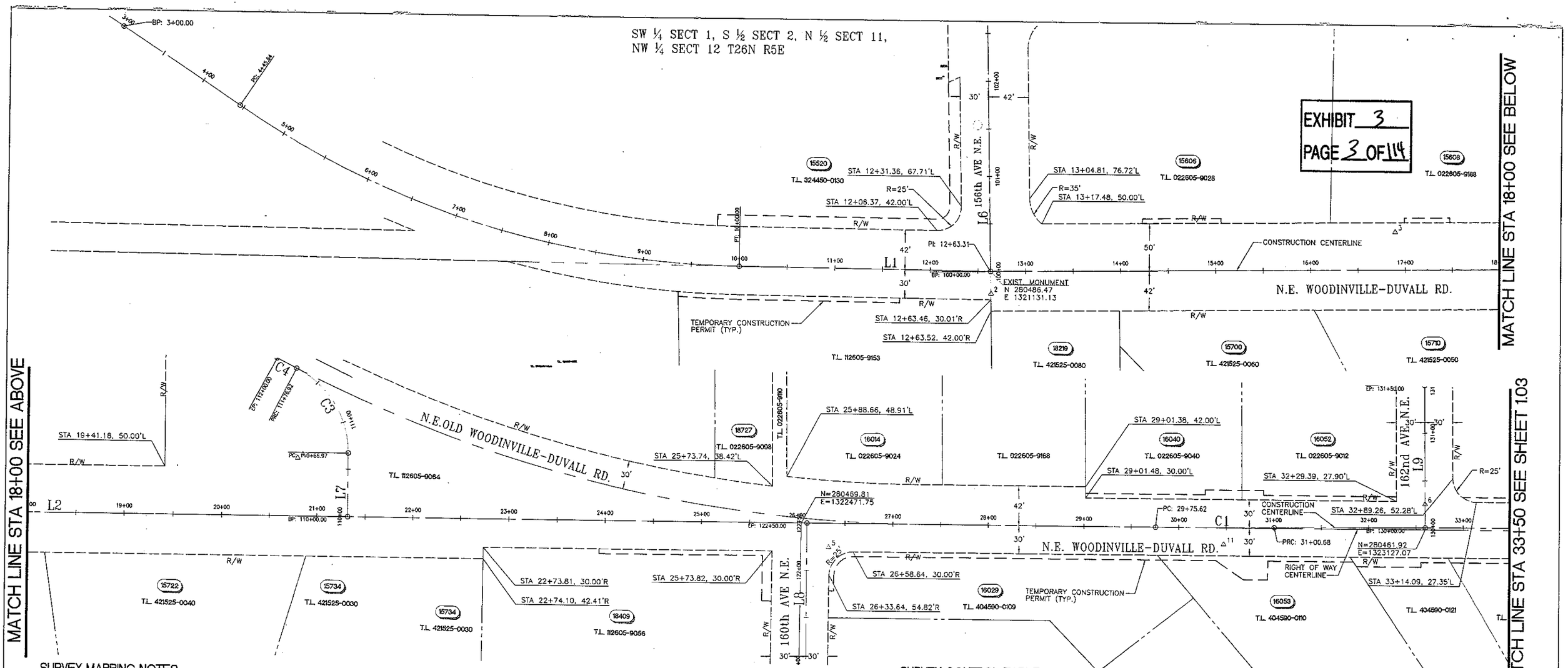

SURVEY MAPPING NOTES

1. HORIZONTAL DATUM: WASHINGTON COORDINATE SYSTEM NORTH ZONE (NAD 83/91) NOTE: PROJECT CONTROL WAS ESTABLISHED BY CONSTRAINING TO SPC COORDINATES, WCCS SURVEY CONTROL POINTS #'s 3168 AND 3158.
2. VERTICAL DATUM: N.A.V.D. 88 PROJECT BENCHMARK IS KING COUNTY SURVEY CONTROL POINT #83 ALSO KNOWN AS WCCS #5572
3. HORIZONTAL CONTROL WAS ESTABLISHED BY A COMBINATION OF FIELD TRAVERSE AND RTK GPS WITH AN ACCURACY THAT MEETS OR EXCEEDS WAC 332-130-090. VERTICAL CONTROL WAS ESTABLISHED BY DIFFERENTIAL LEVELS.
4. THE COORDINATES AND ELEVATIONS OF CONTROL POINTS SHALL BE VERIFIED BY THE CONTRACTOR'S SURVEYOR PRIOR TO BEGINNING CONSTRUCTION. DISTANCES, STATIONING & COORDINATES ASSOCIATED WITH THIS DRAWING ARE GRID. TO CONVERT TO GROUND MULTIPLY BY A COMBINED SCALE FACTOR (CSF) OF 1.00005230.
5. BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT EXISTING CONDITIONS ARE AS INDICATED IN THE PLANS AND SPECIFICATIONS.
6. ALL LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFOR BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND THE FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. UTILITIES WHICH ARE NOT ABANDONED OR REMOVED SHALL BE PROTECTED, SUPPORTED, OR MAINTAINED DURING CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE UNDERGROUND UTILITIES LOCATIONS SERVICE (1-800-424-5555) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. THE OWNER AND THE ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.

SURVEY CONTROL TABLE

POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	280505.54	1320639.85	443.27	PK NAIL W/ OTAK WASHER
2	280462.94	1321131.15	436.29	PK NAIL W/ OTAK WASHER
3	280521.29	1321557.67	409.88	REBAR W/ RED OTAK CAP
4	280537.39	1321947.90	386.17	REBAR W/ RED OTAK CAP
5	280444.11	1322500.23	352.37	REBAR W/ RED OTAK CAP
6	280489.03	1323127.07	358.48	PK NAIL W/ OTAK WASHER
7	280427.39	1323962.47	346.72	PK NAIL W/ OTAK WASHER
8	280428.11	1325109.17	326.58	TACK W/ OTAK WASHER
9	280410.99	1325446.24	328.13	PK NAIL W/ OTAK WASHER
10	280425.95	1325269.60	327.70	PK NAIL W/ OTAK WASHER
11	280446.63	1322914.86	367.24	PK NAIL W/ OTAK WASHER
12	280438.62	1323550.41	347.72	PK NAIL W/ OTAK WASHER
13	280403.18	1324694.08	329.19	PK NAIL W/ OTAK WASHER

50' 0' 50' 100'
SCALE IN FEET

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PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
SURVEY AND HORIZONTAL CONTROL PLAN

DATE: Oct 17, 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
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SHEET X OF X	
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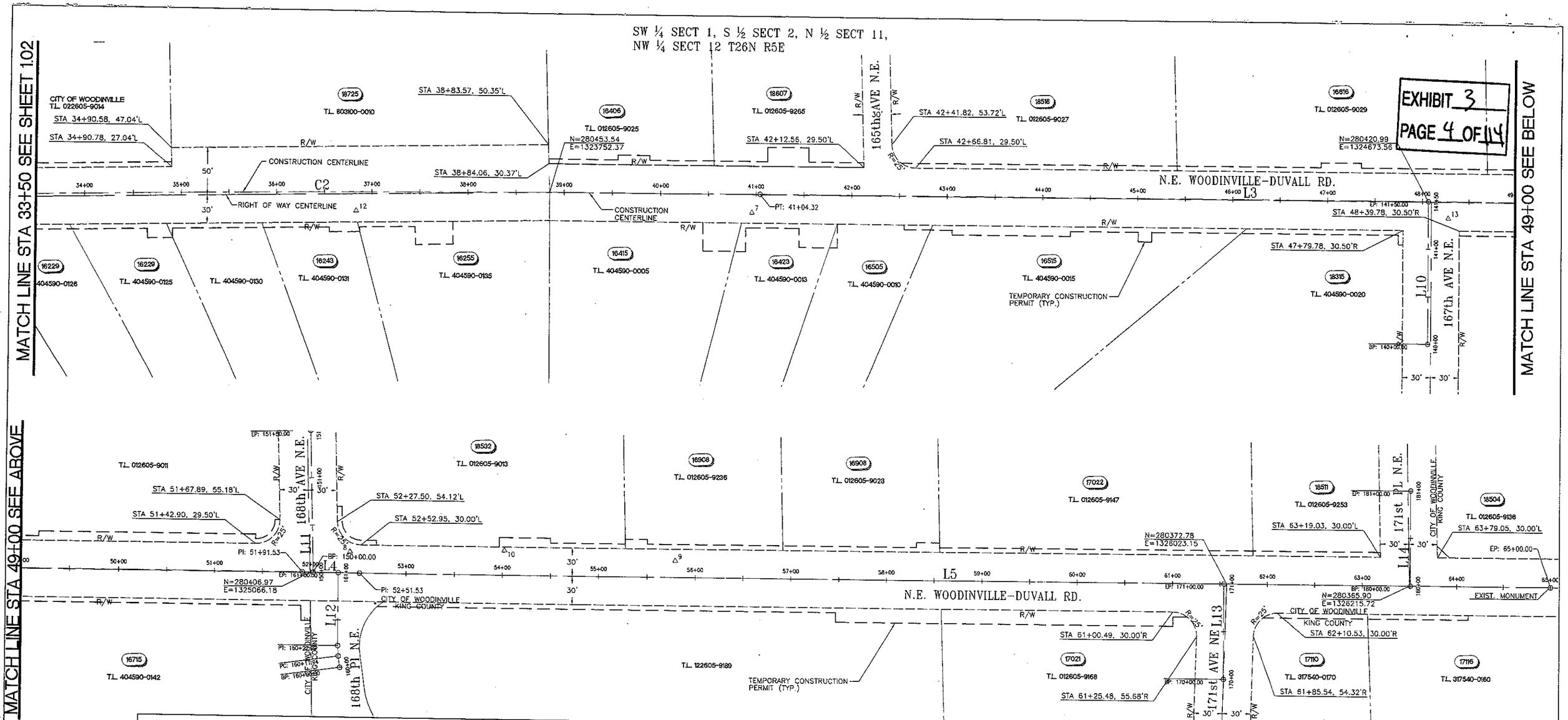

Woodinville Duval Construction CL					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L1	10+00.00	263.31'		S88°01'23.3"E	
L2	12+63.31	1712.31'		S89°17'17.5"E	
C1	29+75.62	125.06'	9978.50'	S89°38'50"E	0°43'05"
C2	31+00.68	1003.64'	28021.50'	S88°58'49"E	2°03'08"
L3	41+04.32	1087.21'		S87°57'14.9"E	
L4	51+91.53	60.00'		S87°28'36.0"E	
L5	52+51.53	1248.47'		S87°57'14.9"E	

156th Ave NE					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L6	100+00.00	400.00'		N0°20'26.7"E	

NE Old WDR					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L7	110+00.00	66.97'		N0°42'42.5"E	
C3	110+66.97	109.95'	100.00'	N30°47'16"W	62°59'57"
C4	111+76.92	23.08'	1431.33'	N61°49'32"W	0°55'25"

160th Ave NE					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L8	120+00.00	250.00'		N0°42'42.5"E	

162th Ave NE					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L9	130+00.00	150.00'		N0°13'49.4"E	

167th Ave NE					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L10	140+00.00	150.00'		N2°02'45.1"E	

168th Ave NE–North					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L11	150+00.00	150.00'		N0°29'03.5"E	

168th Ave NE–South					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L12	160+22.99	77.01'		N2°02'45.1"E	

171st Ave NE					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L13	170+00.00	100.00'		N2°02'45.1"E	

171st PL NE					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L14	180+00.00	100.00'		N2°02'45.1"E	

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PROJECT INFORMATION
WOODINVILLE–DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
SURVEY AND HORIZONTAL CONTROL PLAN

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.:
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SHEET X OF	
DRAWING NO.: 1.03	

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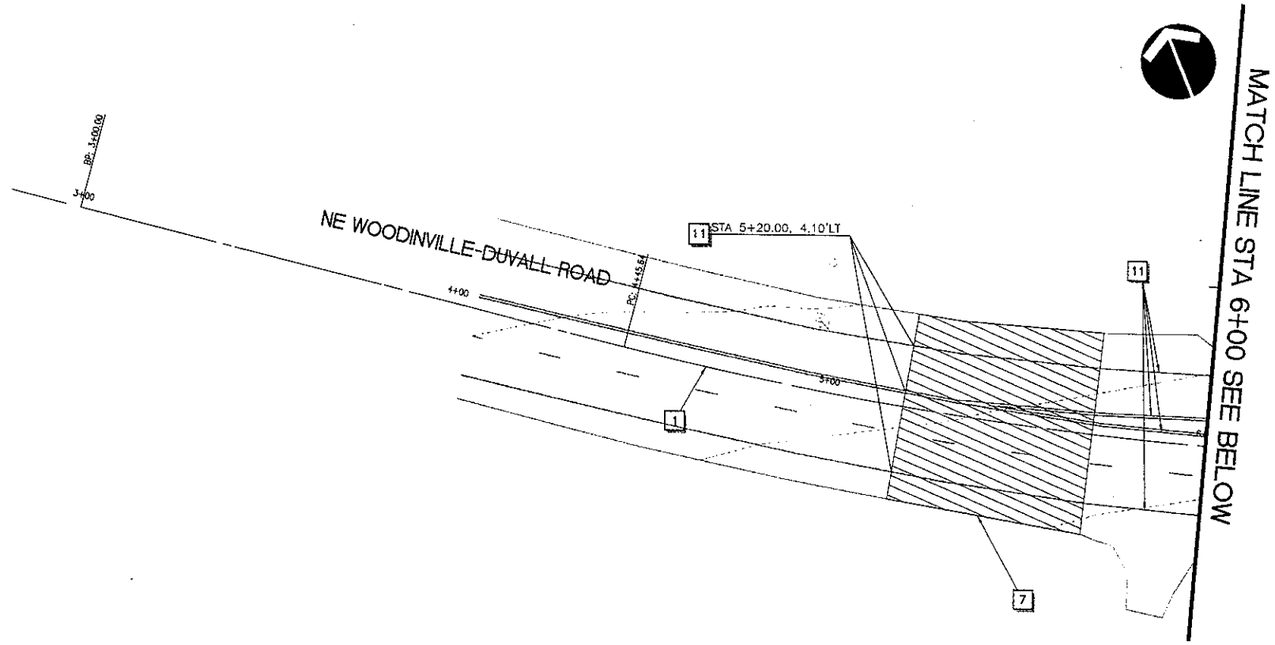
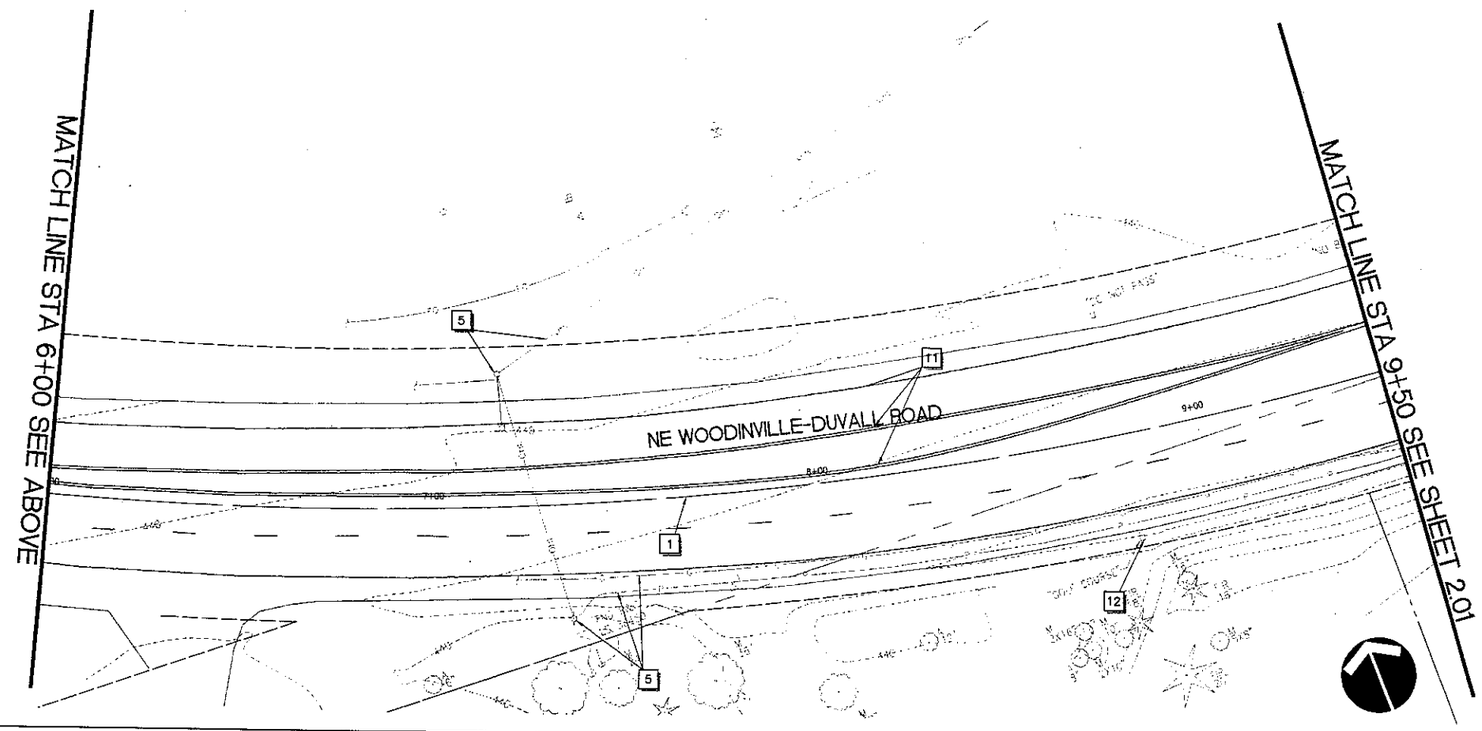
PAGE 5 OF 114





TESC AND DEMOLITION NOTES

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2. EXISTING MONUMENT/SURVEY STAKE TO BE REMOVED AND NEW INSTALLED FOLLOWING CONSTRUCTION.
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- SAWCUT LINE
- REMOVE EXISTING STORM DRAIN
- STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STD PLAN I-80.10-01
- WETLAND
- GEOTEXTILE ENCASED CHECK DAM

20' 0' 20' 40'
SCALE IN FEET

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P.E. STAMP BOX

STATE OF WASHINGTON — DIEGO M. VANDERHORST — 30792 — REGISTERED PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY	CK
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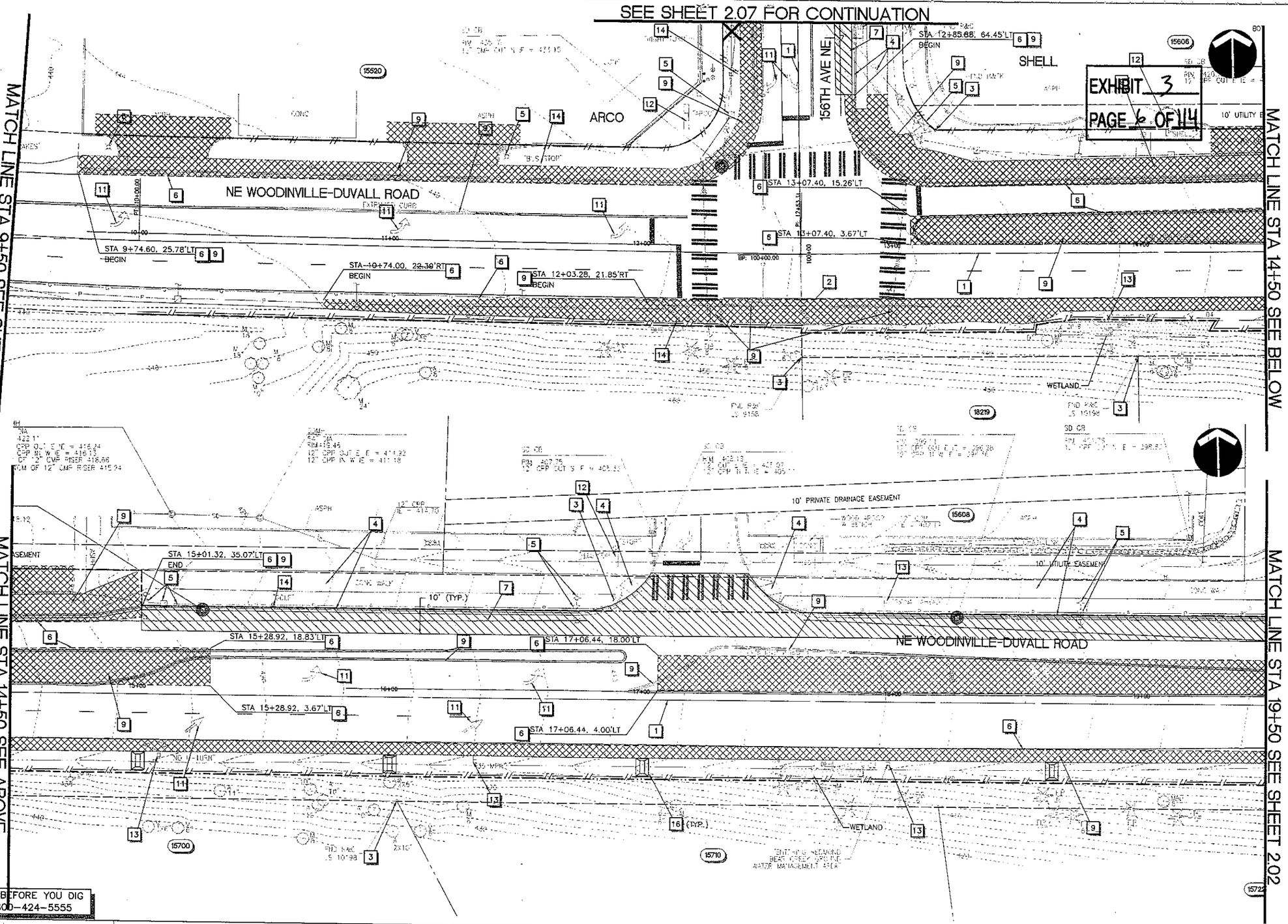
CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE–DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
TESC AND DEMOLITION PLAN

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 2.00	

Plotted: Oct 17, 2011 – 4:38pm CheriHeF K:\project\31400\31423\dwg\2.00.dwg Layout Name: 2.00



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- WETLAND
- GEOTEXTILE ENCASED CHECK DAM

SCALE 20' 0' 20' 40 IN FEET

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P.E. STAMP BOX

NICO M. VANDERHORST, STATE OF WASHINGTON, 30792, REGISTERED PROFESSIONAL ENGINEER

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CITY OF WOODINVILLE
17301 133rd AVE NE
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PHONE: (425) 489-2700
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PROJECT INFORMATION

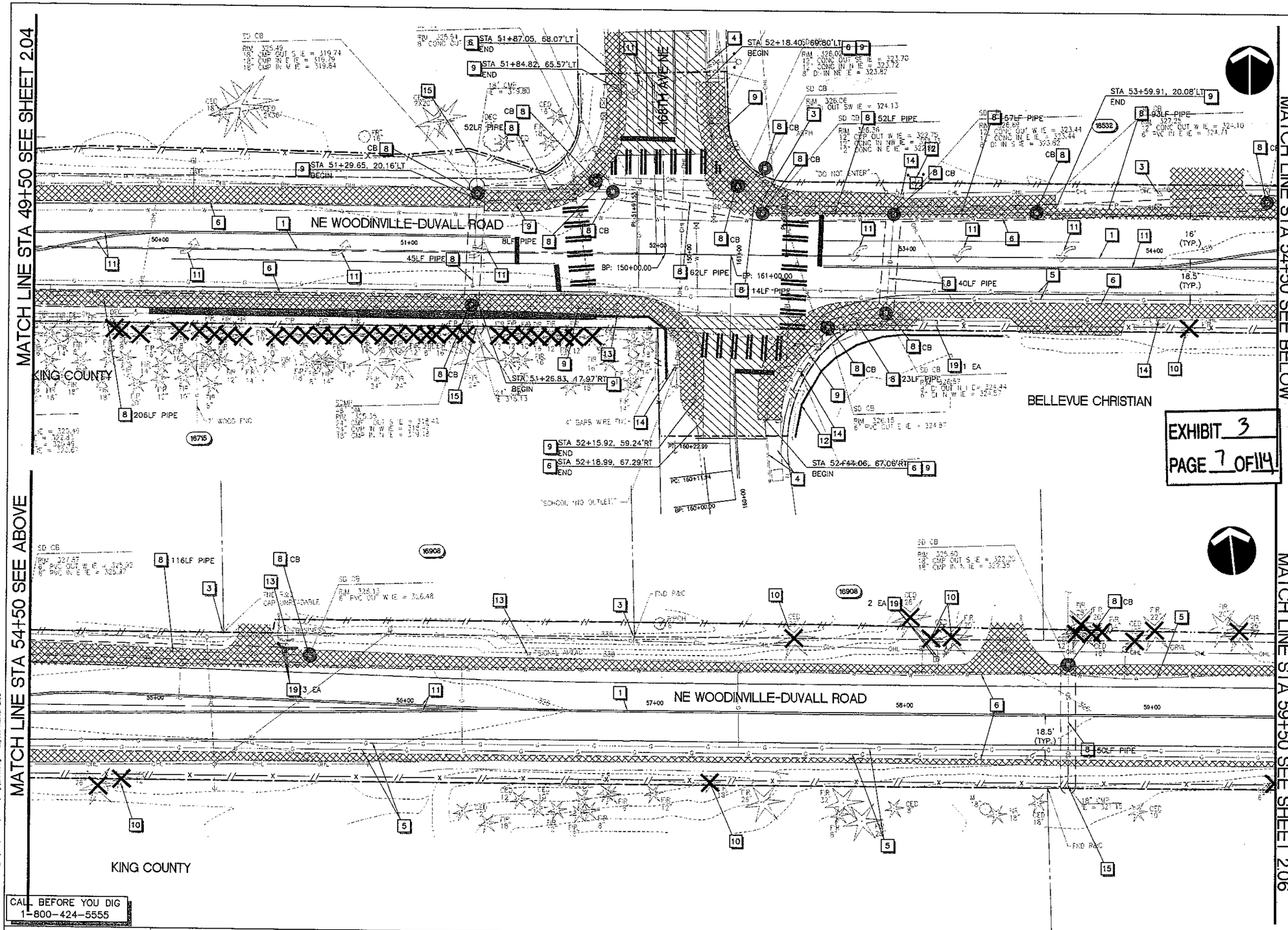
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:

TESC AND DEMOLITION PLAN

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 2.01	

Plotted: Oct 17, 2011 - 4:38pm Chariref: X:\project\31400\31423\Dwg\2.00.dwg Layout Name: 2.01



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- GEOTEXTILE ENCASED CHECK DAM

20' 20' 0' 40'
SCALE IN FEET

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PROJECT INFORMATION
WOODINVILLE–DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
TESC AND DEMOLITION PLAN

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10–XXXX
DRAWN BY:	SCALE: 1"=20'
SHEET x OF x	
DRAWING NO.: 2.05	

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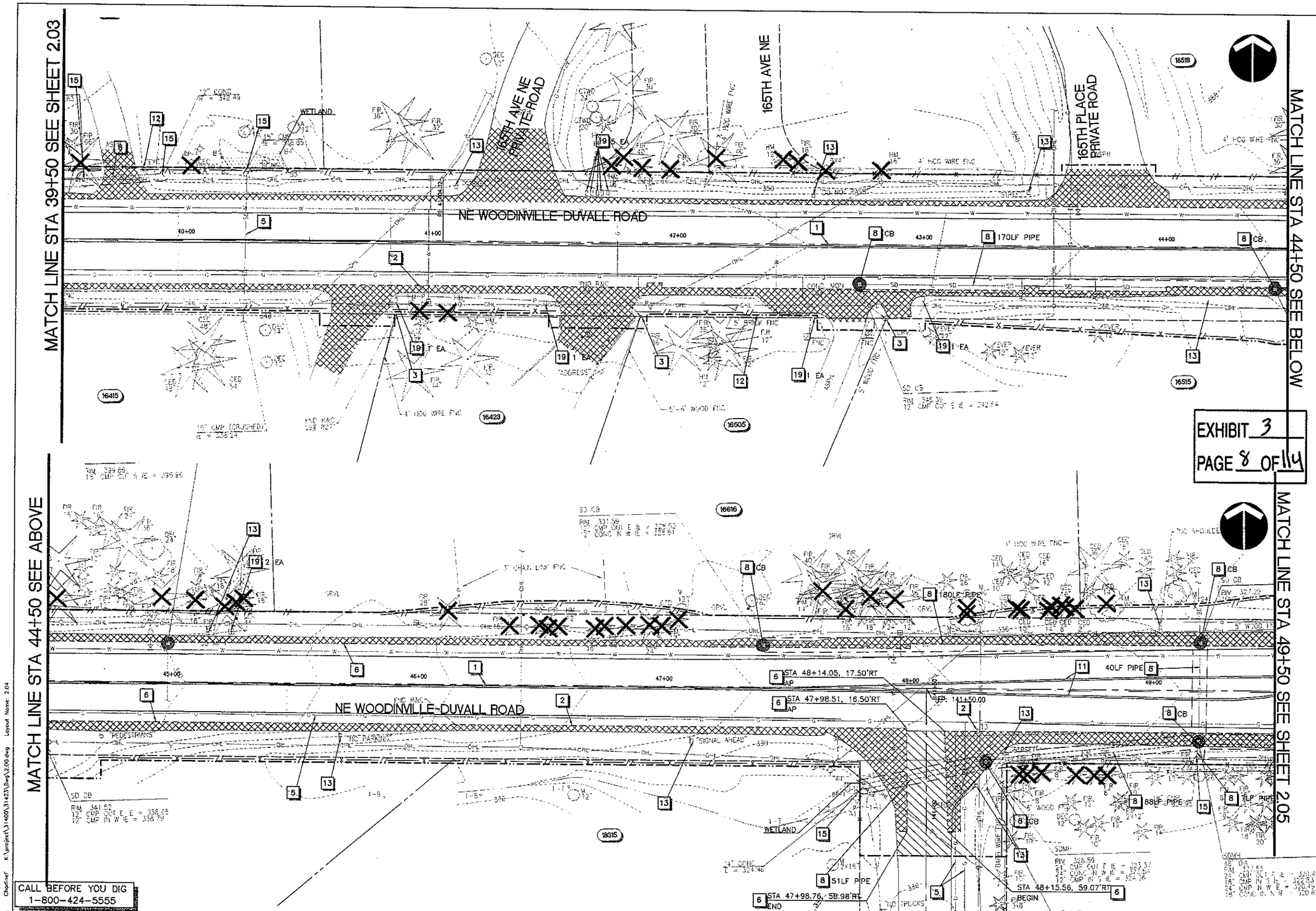

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SCALE IN FEET

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NICO M. VANDERHORST, STATE OF WASHINGTON, 30792, REGISTERED PROFESSIONAL ENGINEER

P.E. STAMP BOX

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CITY OF WOODINVILLE
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PHONE: (425) 489-2700
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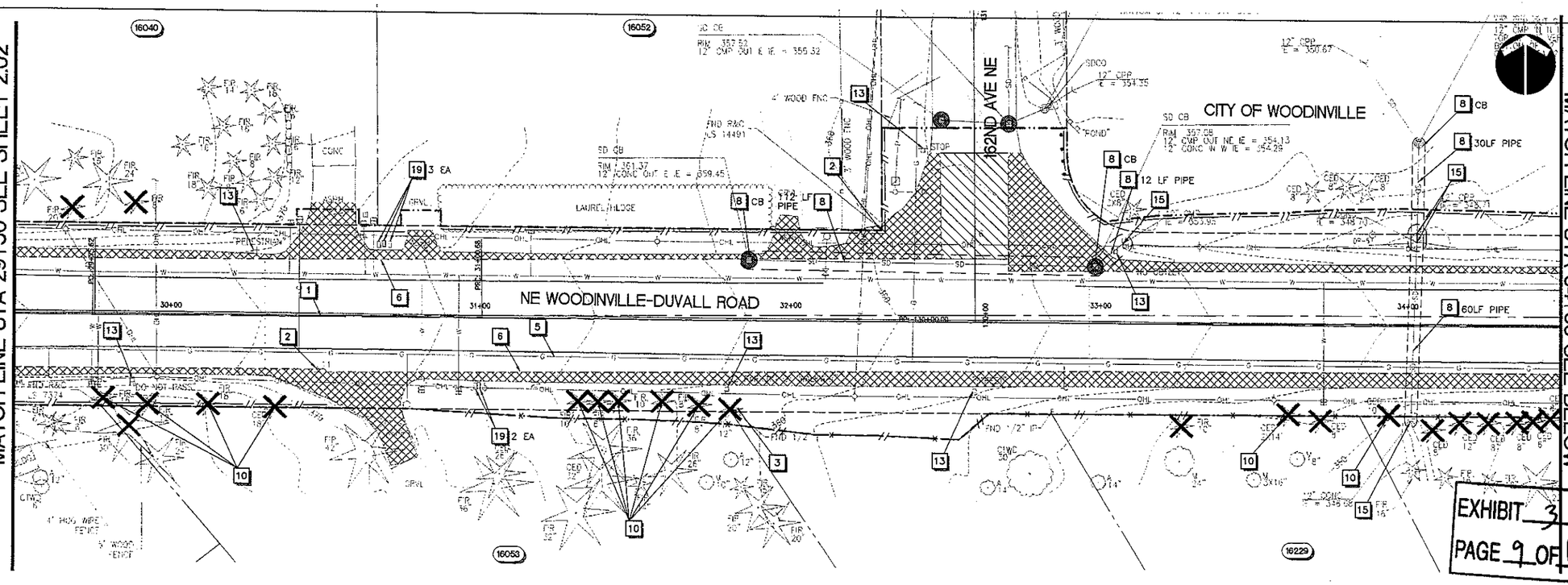
PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
TESC AND DEMOLITION PLAN

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: FW10-XXXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 2.04	

Plotted: Oct 17, 2011 – 4:36pm Chadlinef K:\project\31400\31423\Dwg\2.00.dwg Layout Name: 2.04



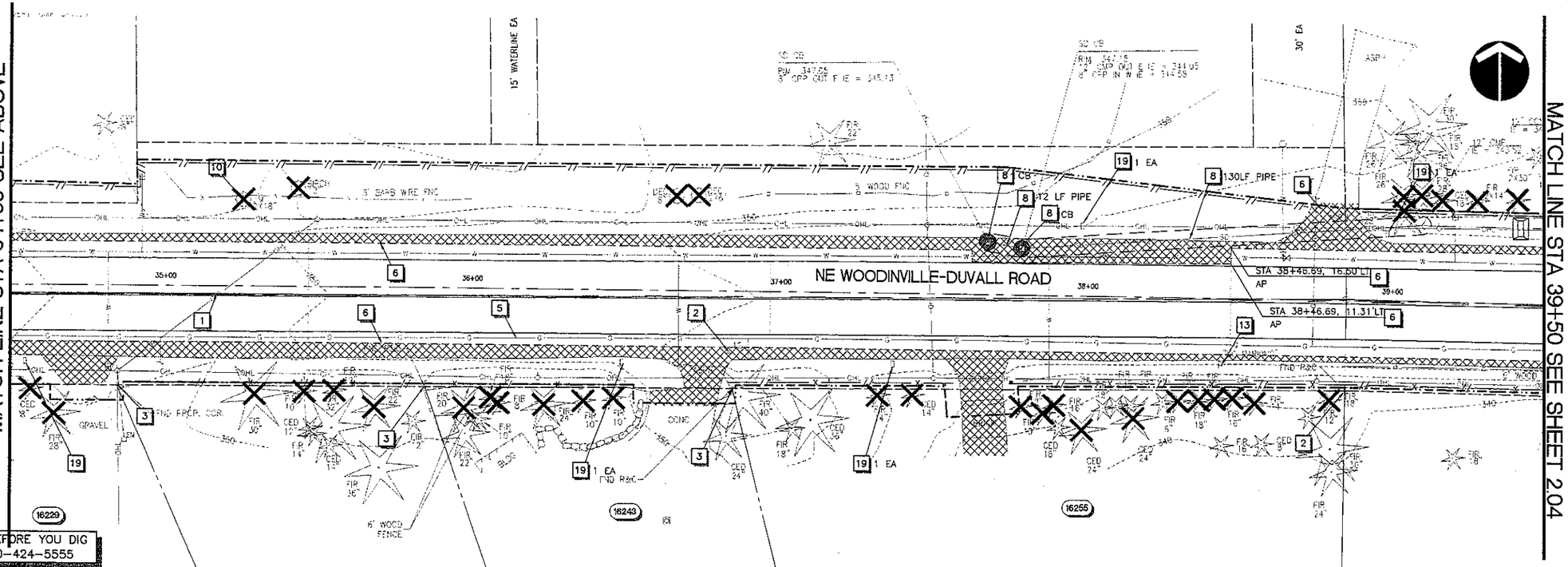


EXHIBIT 3
PAGE 9 OF 114

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TESC AND DEMOLITION NOTES

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17301 133rd AVE NE
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PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
TESC AND DEMOLITION PLAN

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 2.03	

XREF LIST
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Resolved
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C423N100
S423B190
S423Y220
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C423T450
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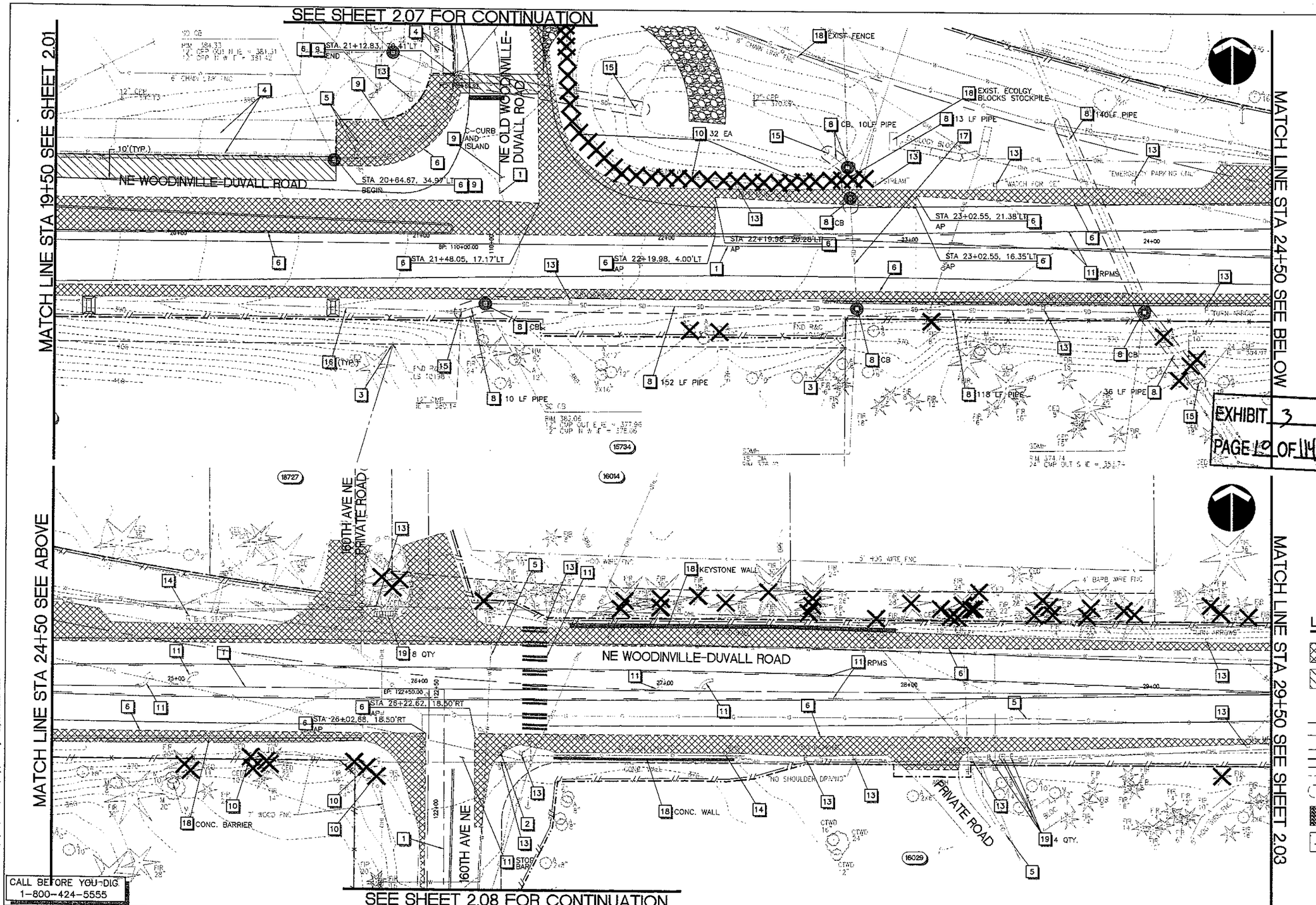

EXHIBIT 3
PAGE 10 OF 114

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6. SAWCUT AND REMOVE 24" MIN. FROM EDGE OF EXISTING ASPHALT/CONCRETE PAVEMENT, UNLESS NOTED OTHERWISE. REPLACE EXISTING PAVEMENT TO LIMITS SHOWN PER TYPICAL ROADWAY SECTION ON SHEET 3.12.
7. PLANE BITUMINOUS PAVEMENT PER DETAIL ON SHEET 3.12.
8. REMOVE PORTION OF EXISTING STORM DRAIN. LIMITS PER PLAN.
9. REMOVE EXISTING CEMENT CONCRETE CURB, GUTTER AND/OR SIDEWALK REQUIRED FOR INSTALLATION OF IMPROVEMENTS. CURB, GUTTER AND/OR SIDEWALK SHALL BE REMOVED TO THE NEAREST JOINT BEYOND THE IMPROVEMENTS OR PROVIDE SAWCUT.
10. REMOVE EXISTING TREE(S).
11. REMOVE EXISTING STRIPING AND PAVEMENT MARKINGS, LIMITS PER PLAN.
12. EXISTING LANDSCAPE FEATURE OR STRUCTURE TO BE RELOCATED. SEE ROADWAY AND DRAINAGE PLANS FOR DETAILS.
13. REMOVE EXISTING SIGN.
14. EXISTING SIGN TO BE RELOCATED. SEE SIGNING AND STRIPING PLANS FOR NEW LOCATION.
15. INSTALL EROSION CONTROL AT CULVERT ENDS PER WSDOT STD PLAN 1-30.20-00.
16. INSTALL GEOTEXTILE ENCASED CHECKDAM PER WSDOT STD PLAN 1-50.10-00.
17. PLUG AND ABANDON EXISTING STORM DRAINAGE.
18. REMOVE EXISTING LANDSCAPE FEATURE OR STRUCTURE.
19. REMOVE EXISTING MAILBOX. PROVIDE TEMPORARY SUPPORT AND MAINTAIN SERVICES UNTIL NEW MAILBOX(S) IS INSTALLED.

GENERAL NOTES

1. CATCH BASIN INLET PROTECTION SHALL BE PROVIDED AND MAINTAINED AT ALL EXISTING AND PROPOSED CATCH BASINS PRIOR TO AND FOR THE DURATION OF CONSTRUCTION OPERATIONS. PROPOSED CATCH BASINS AND PROTECTION MEASURES NOT SHOWN ON TESC PLAN FOR CLARITY.
2. THE CONTRACTOR SHALL NOT REMOVE ANY TREES WITHIN THE WORKING LIMITS OF THE PROJECT NOT CALLED FOR REMOVAL WITHOUT FIRST NOTIFYING AND OBTAINING PERMISSION FROM THE PROJECT ENGINEER.

LEGEND

- REMOVE EXISTING PAVEMENT
- PLANE EXISTING PAVEMENT
- INLET PROTECTION PER WSDOT STD PLAN 1-40.20-00
- HIGH VISIBILITY FENCE PER WSDOT STD PLAN 1-10.10-C
- COMBINED SILT/HIGH VISIBILITY FENCE PER WSDOT STD PLANS 1-10.10-01 AND 1-30.15-00
- SILT FENCE PER WSDOT STD PLAN 1-30.15-00
- CLEARING LIMITS
- TEMPORARY CONSTRUCTION PERMIT
- SAWCUT LINE
- REMOVE EXISTING STORM DRAIN
- STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STD PLAN 1-80.10-01
- WETLAND
- GEOTEXTILE ENCASED CHECK DAM

SCALE 20' 0' 20' 40' IN FEET

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WEB: WWW.OTAK.COM

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P.E. STAMP BOX

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CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE–DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
TESC AND DEMOLITION PLAN

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 2.02	

Plotted: Oct 17, 2011 – 4:38pm CharlieF K:\project\31400\31423\Dwg\2.00.dwg Layout Name: 2.02

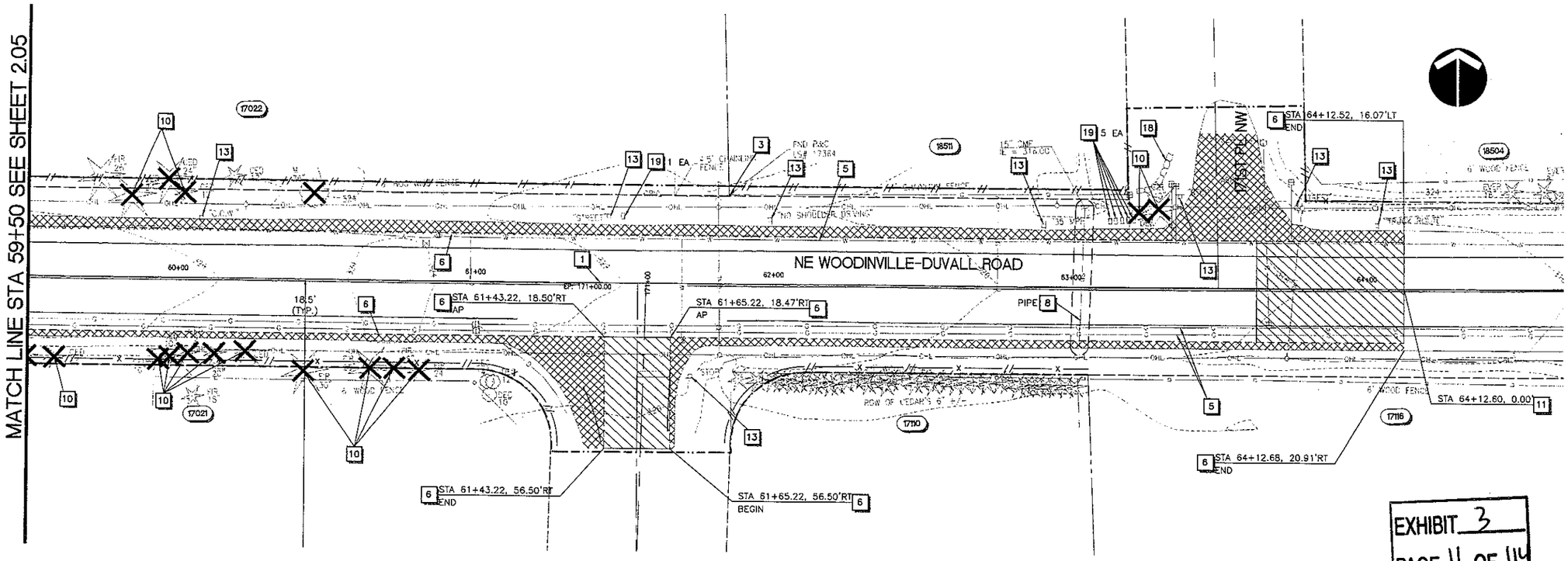

EXHIBIT 3
PAGE 11 OF 14

TESC AND DEMOLITION NOTES

1. CONSTRUCTION CENTERLINE SEE SHEETS 1.02–1.04 FOR DETAILS.
2. EXISTING MONUMENT/SURVEY STAKE TO BE REMOVED AND NEW INSTALLED FOLLOWING CONSTRUCTION.
3. PROTECT EXISTING MONUMENT/SURVEY STAKE.
4. EXISTING CEMENT CONCRETE CURB AND GUTTER, AND SIDEWALK TO REMAIN, PROTECT DURING CONSTRUCTION.
5. EXISTING UTILITY TO REMAIN, PROTECT DURING CONSTRUCTION.
6. SAWCUT AND REMOVE 24" MIN. FROM EDGE OF EXISTING ASPHALT/CONCRETE PAVEMENT, UNLESS NOTED OTHERWISE. REPLACE EXISTING PAVEMENT TO LIMITS SHOWN PER TYPICAL ROADWAY SECTION ON SHEET 3.12.
7. PLANE BITUMINOUS PAVEMENT PER DETAIL ON SHEET 3.12.
8. REMOVE PORTION OF EXISTING STORM DRAIN, LIMITS PER PLAN.
9. REMOVE EXISTING CEMENT CONCRETE CURB, GUTTER AND/OR SIDEWALK REQUIRED FOR INSTALLATION OF IMPROVEMENTS. CURB, GUTTER AND/OR SIDEWALK SHALL BE REMOVED TO THE NEAREST JOINT BEYOND THE IMPROVEMENTS OR PROVIDE SAWCUT.
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11. REMOVE EXISTING STRIPING AND PAVEMENT MARKINGS, LIMITS PER PLAN.
12. EXISTING LANDSCAPE FEATURE OR STRUCTURE TO BE RELOCATED, SEE ROADWAY AND DRAINAGE PLANS FOR DETAILS.
13. REMOVE EXISTING SIGN.
14. EXISTING SIGN TO BE RELOCATED. SEE SIGNING AND STRIPING PLANS FOR NEW LOCATION.
15. INSTALL EROSION CONTROL AT CULVERT ENDS PER WSDOT STD PLAN 1–30.20–00.
16. INSTALL GEOTEXTILE ENCASED CHECKDAM PER WSDOT STD PLAN 1–50.10–00.
17. PLUG AND ABANDON EXISTING STORM DRAINAGE.
18. REMOVE EXISTING LANDSCAPE FEATURE OR STRUCTURE.
19. REMOVE EXISTING MAILBOX. PROVIDE TEMPORARY SUPPORT AND MAINTAIN SERVICES UNTIL NEW MAILBOX(S) IS INSTALLED.

GENERAL NOTES

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LEGEND

- REMOVE EXISTING PAVEMENT
- PLANE EXISTING PAVEMENT
- INLET PROTECTION PER WSDOT STD PLAN 1–40.20–00
- HIGH VISIBILITY FENCE PER WSDOT STD PLAN 1–10.10–01
- COMBINED SILT/HIGH VISIBILITY FENCE PER WSDOT STD PLANS 1–10.10–01 AND 1–30.15–00
- SILT FENCE PER WSDOT STD PLAN 1–30.15–00
- CLEARING LIMITS
- TEMPORARY CONSTRUCTION PERMIT
- SAWCUT LINE
- REMOVE EXISTING STORM DRAIN
- STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STD PLAN 1–80.10–01
- WETLAND
- GEOTEXTILE ENCASED CHECK DAM

20' 0' 20' 40'
SCALE IN FEET

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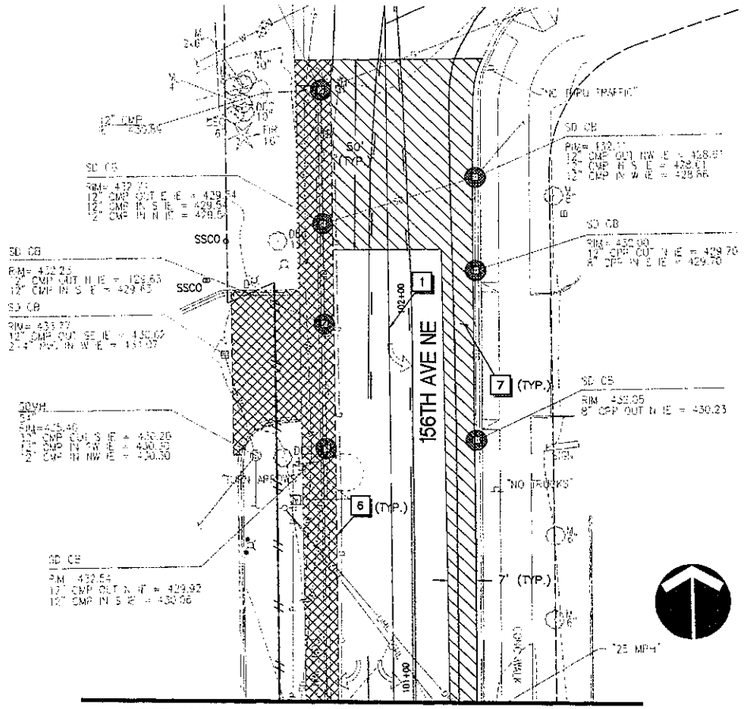
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE–DUVALL ROAD WIDENING PROJECT

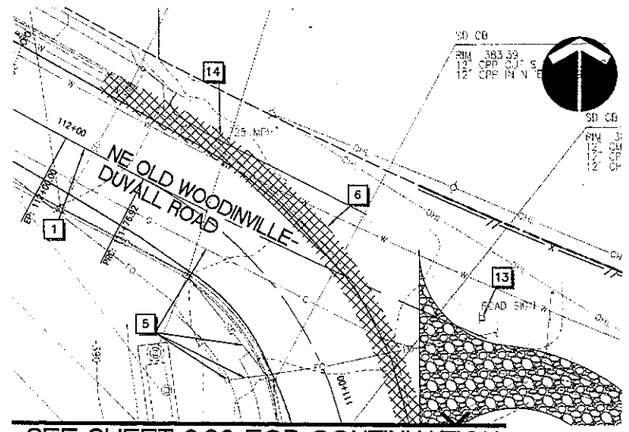
SHEET TITLE:
TESC AND DEMOLITON PLAN

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10–XXXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 2.06	

Plotted: Oct 17, 2011 – 4:38pm CheyLineF K:\project\31400\31423\Dwg\2.00.dwg Layout Name: 2.06



SEE SHEET 2.01 FOR CONTINUATION



SEE SHEET 2.02 FOR CONTINUATION

SEE SHEET 2.02 FOR CONTINUATION

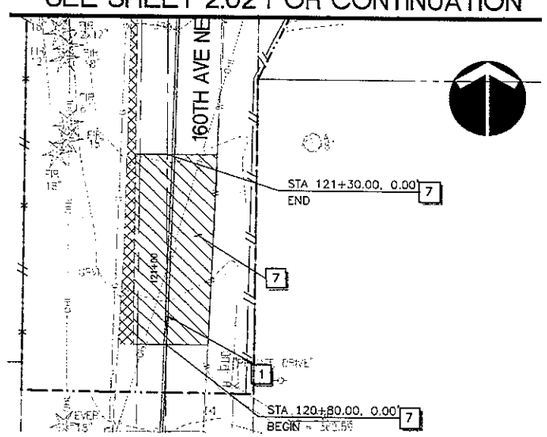


EXHIBIT 3
PAGE 12 OF 114

TESC AND DEMOLITION NOTES

1. CONSTRUCTION CENTERLINE SEE SHEETS 1.02–1.04 FOR DETAILS.
2. EXISTING MONUMENT/SURVEY STAKE TO BE REMOVED AND NEW INSTALLED FOLLOWING CONSTRUCTION.
3. PROTECT EXISTING MONUMENT/SURVEY STAKE.
4. EXISTING CEMENT CONCRETE CURB AND GUTTER, AND SIDEWALK TO REMAIN, PROTECT DURING CONSTRUCTION.
5. EXISTING UTILITY TO REMAIN, PROTECT DURING CONSTRUCTION.
6. SAWCUT AND REMOVE 24" MIN. FROM EDGE OF EXISTING ASPHALT/CONCRETE PAVEMENT, UNLESS NOTED OTHERWISE. REPLACE EXISTING PAVEMENT TO LIMITS SHOWN PER TYPICAL ROADWAY SECTION ON SHEET 3.12.
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13. REMOVE EXISTING SIGN.
14. EXISTING SIGN TO BE RELOCATED. SEE SIGNING AND STRIPING PLANS FOR NEW LOCATION.
15. INSTALL EROSION CONTROL AT CULVERT ENDS PER WSDOT STD PLAN 1–30.20–00.
16. INSTALL GEOTEXTILE ENCASED CHECKDAM PER WSDOT STD PLAN 1–50.10–00.
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LEGEND

- REMOVE EXISTING PAVEMENT
- PLANE EXISTING PAVEMENT
- INLET PROTECTION PER WSDOT STD PLAN 1–40.20–00
- HIGH VISIBILITY FENCE PER WSDOT STD PLAN 1–10.10–01
- COMBINED SILT/HIGH VISIBILITY FENCE PER WSDOT STD PLANS 1–10.10–01 AND 1–30.15–00
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- SAWCUT LINE
- REMOVE EXISTING STORM DRAIN
- STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STD PLAN 1–80.10–01
- WETLAND
- GEOTEXTILE ENCASED CHECK DAM

20' 0' 20' 40
SCALE IN FEET

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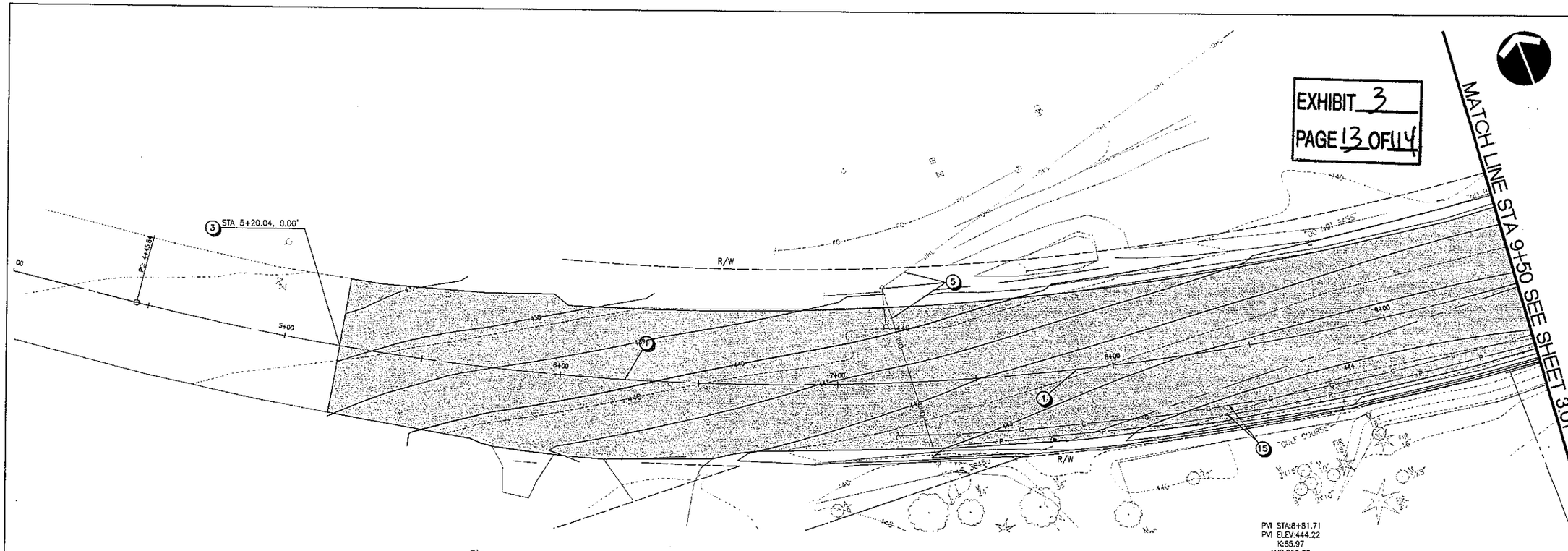
CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

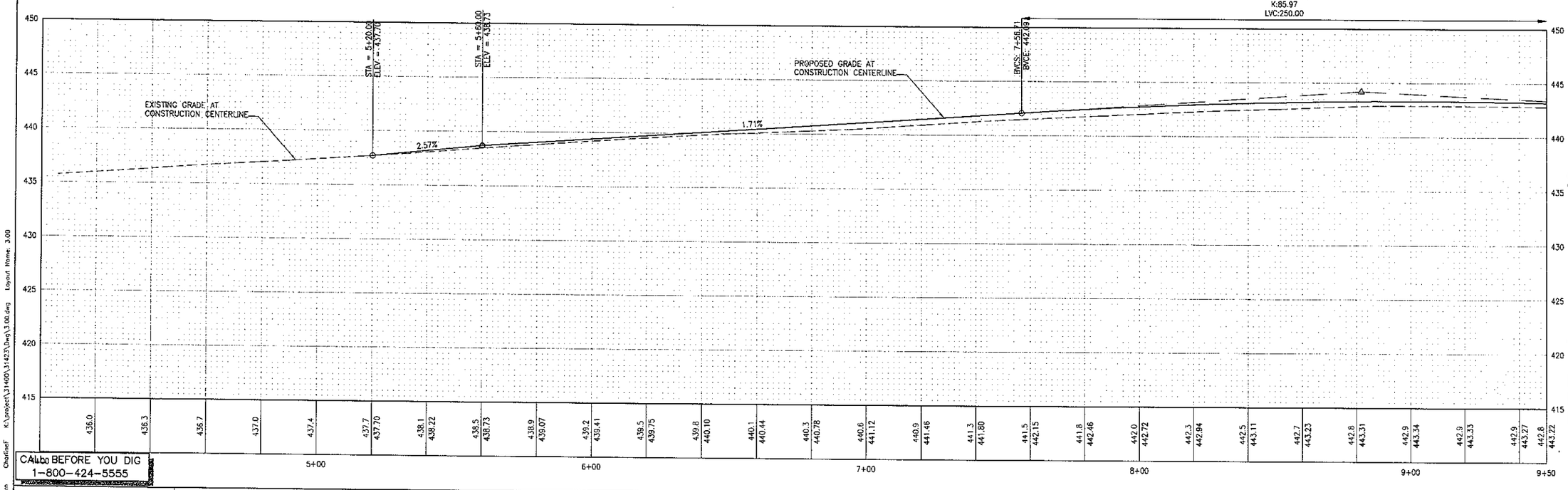
PROJECT INFORMATION
WOODINVILLE–DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
TESC AND DEMOLITION PLAN

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10–XXXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 2.07	

Plotted: Oct 17, 2011 – 4:39pm CheckRef: K:\project\31400\31423\Dwg\2.00.dwg Layout Name: 2.07





CONSTRUCTION NOTES

1. CONSTRUCTION CENTERLINE, SEE SHEETS 1.02 AND 1.03 FOR DETAILS.
2. CONSTRUCT ASPHALT CONCRETE PAVEMENT SECTION PER TYPICAL ROADWAY SECTION ON SHEET 3.14.
3. OVERLAY ROADWAY PER TYPICAL ROADWAY SECTION ON SHEET 3.14.
4. CONSTRUCT CEMENT CONCRETE SIDEWALK PER TYPICAL ROADWAY SECTION ON SHEET 3.14.
5. CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD PLAN F-10.12-02.
6. CONSTRUCT CEMENT CONCRETE DRIVEWAY PER WSDOT STD PLAN F-80.10-01. TYPE PER PLAN.
7. RECONSTRUCT DRIVEWAY TO THE LIMITS SHOWN, SEE SHEETS 3.XX-3.XX FOR APPLICABLE DRIVEWAY PROFILE. PAVEMENT SECTION SHALL BE 2" HMA OVER 4" CSTC.
8. CONSTRUCT SIDEWALK RAMP PER RAMP SCHEDULE ON SHEET 3.14.
9. CONNECT TO EXISTING STORM DRAIN.
10. ADJUST EXISTING CATCH BASIN OR MANHOLE TO FINISH GRADE.
11. ADJUST EXISTING UTILITY VALVE OR BOX TO FINISH GRADE.
12. REMOVE EXISTING GRATE AND REPLACE WITH SOLID LOCKING COVER.
13. PROVIDE ETHAFOAM IF VERTICAL CLEARANCE BETWEEN PIPE IS LESS THAN 6". SEE SPECIFICATIONS FOR DETAILS.
14. EXISTING LANDSCAPE FEATURE OR STRUCTURE TO REMAIN, PROTECT DURING CONSTRUCTION.
15. PROTECT EXISTING UTILITY DURING CONSTRUCTION.
16. CONSTRUCT MODULAR BLOCK WALL PER DETAIL AND WALL TABLE ON SHEET 5.07.
17. CONSTRUCT SOLDIER PILE WALL PER DETAILS AND PROFILE ON SHEETS 5.01-5.06.
18. EXISTING UTILITY TO BE RELOCATED, REMOVED AND/OR ADJUSTED TO FINISH GRADE BY OTHERS. CONTRACTOR SHALL WORK AROUND THE FACILITY UNTIL RELOCATION/ADJUSTMENT WORK IS COMPLETED.
19. LANDSCAPE ISLAND PER DETAIL ON SHEET 3.14.
20. INSTALL OR RESET SURVEY MONUMENT AND CASE PER CITY OF WOODINVILLE STD PLAN 380.
21. CONSTRUCT CEMENT CONCRETE TRAFFIC CURB PER WSDOT STD PLAN F-10.12-02.
22. CONSTRUCT PRECAST CEMENT CONCRETE DUAL FACED SLOPED MOUNTABLE CURB PER WSDOT STD PLAN F-10.64-02.
23. INSTALL SOLID LOCKING COVER PER WSDOT STD PLAN B-30.20-01.

GENERAL NOTES

1. ALL DIMENSIONS AND STATION AND OFFSET REFERENCES ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.
2. CONSTRUCTION CENTERLINE AND RIGHT-OF-WAY CENTERLINE ARE NOT THE SAME. STATION AND OFFSET REFERENCES ARE TO CONSTRUCTION CENTERLINE.
3. ALL STORM DRAIN PIPE SHALL BE 12" CORRUGATED POLYETHYLENE PIPE UNLESS NOTED OTHERWISE.

LEGEND

- REFERENCE CURB RETURN DATA TABLE ON SHEET 3.14
- 3" ASPHALT CONCRETE PAVEMENT OVERLAY
- FULL DEPTH ASPHALT CONCRETE PAVEMENT
- CEMENT CONCRETE SIDEWALK

HORIZ. SCALE 20' 0' 20' 40' IN FEET

VERT. SCALE 5' 0' 5' 10' IN FEET

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PRELIMINARY DRAFT

NICO M. VANDERHORST, STATE OF WASHINGTON, 30792, REGISTERED PROFESSIONAL ENGINEER

P.E. STAMP BOX

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CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION

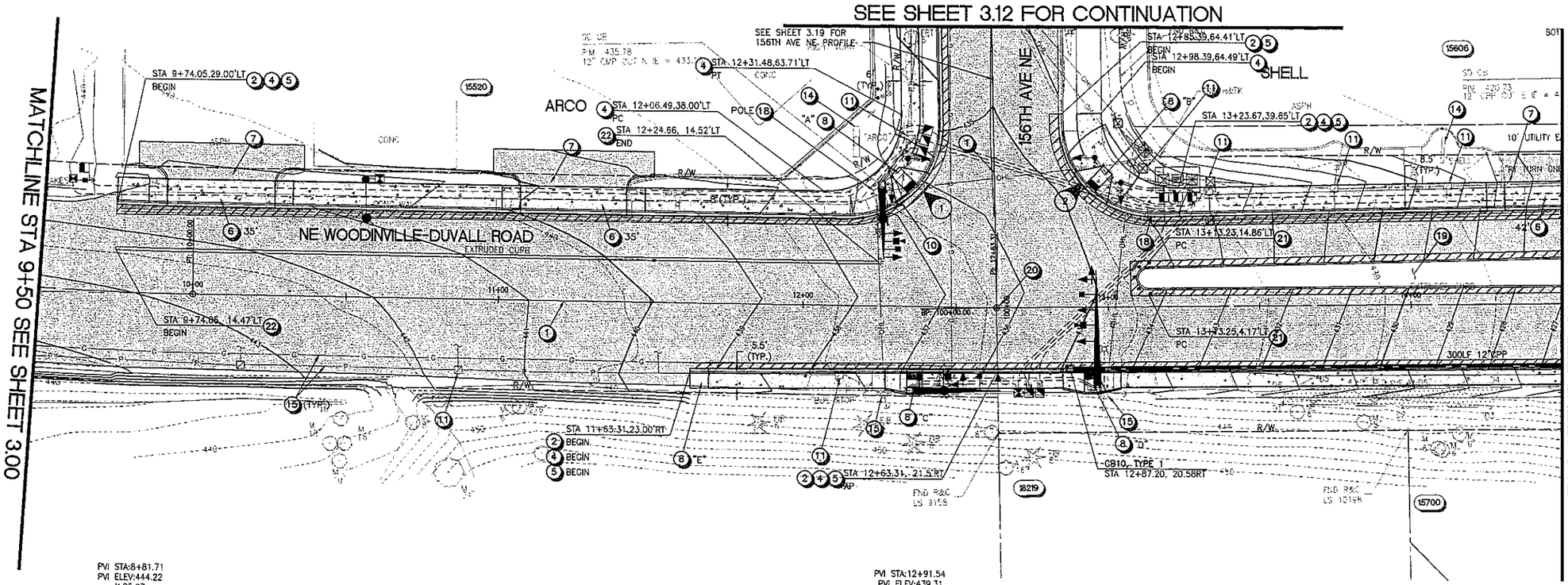
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

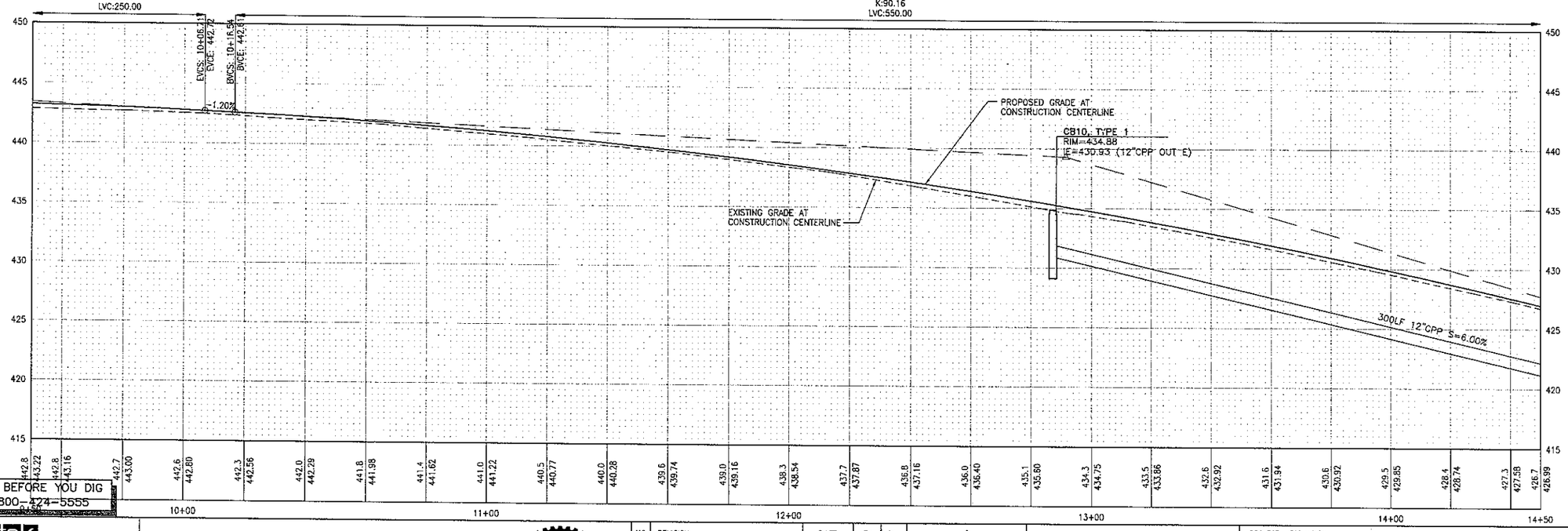
SHEET TITLE:

ROADWAY AND DRAINAGE PLAN AND PROFILE

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 3.00	

Plotted: Oct 17, 2011 - 4:40pm Chaffinef K:\project\31400\31423\Dwg\3.00.dwg Layout Name: 3.00





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1-800-424-5555

CONSTRUCTION NOTES

1. CONSTRUCTION CENTERLINE, SEE SHEETS 1.02 AND 1.03 FOR DETAILS.
2. CONSTRUCT ASPHALT CONCRETE PAVEMENT SECTION PER TYPICAL ROADWAY SECTION ON SHEET 3.14.
3. OVERLAY ROADWAY PER TYPICAL ROADWAY SECTION ON SHEET 3.14.
4. CONSTRUCT CEMENT CONCRETE SIDEWALK PER TYPICAL ROADWAY SECTION ON SHEET 3.14.
5. CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD PLAN F-10.12-02.
6. CONSTRUCT CEMENT CONCRETE DRIVEWAY PER WSDOT STD PLAN F-80.10-01. TYPE PER PLAN.
7. RECONSTRUCT DRIVEWAY TO THE LIMITS SHOWN, SEE SHEETS 3.XX-3.XX FOR APPLICABLE DRIVEWAY PROFILE. PAVEMENT SECTION SHALL BE 2" HMA OVER 4" CSTC.
8. CONSTRUCT SIDEWALK RAMP PER RAMP SCHEDULE ON SHEET 3.14.
9. CONNECT TO EXISTING STORM DRAIN.
10. ADJUST EXISTING CATCH BASIN OR MANHOLE TO FINISH GRADE.
11. ADJUST EXISTING UTILITY VALVE OR BOX TO FINISH GRADE.
12. REMOVE EXISTING GRATE AND REPLACE WITH SOLID LOCKING COVER.
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- 3" ASPHALT CONCRETE PAVEMENT OVERLAY
- FULL DEPTH ASPHALT CONCRETE PAVEMENT
- CEMENT CONCRETE SIDEWALK

HORIZ. SCALE 20' 0' 20' 40' IN FEET
VERT. SCALE 5' 0' 5' 10 IN FEET

EXHIBIT 3
PAGE 14 OF 14

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WOODINVILLE, WA 98072
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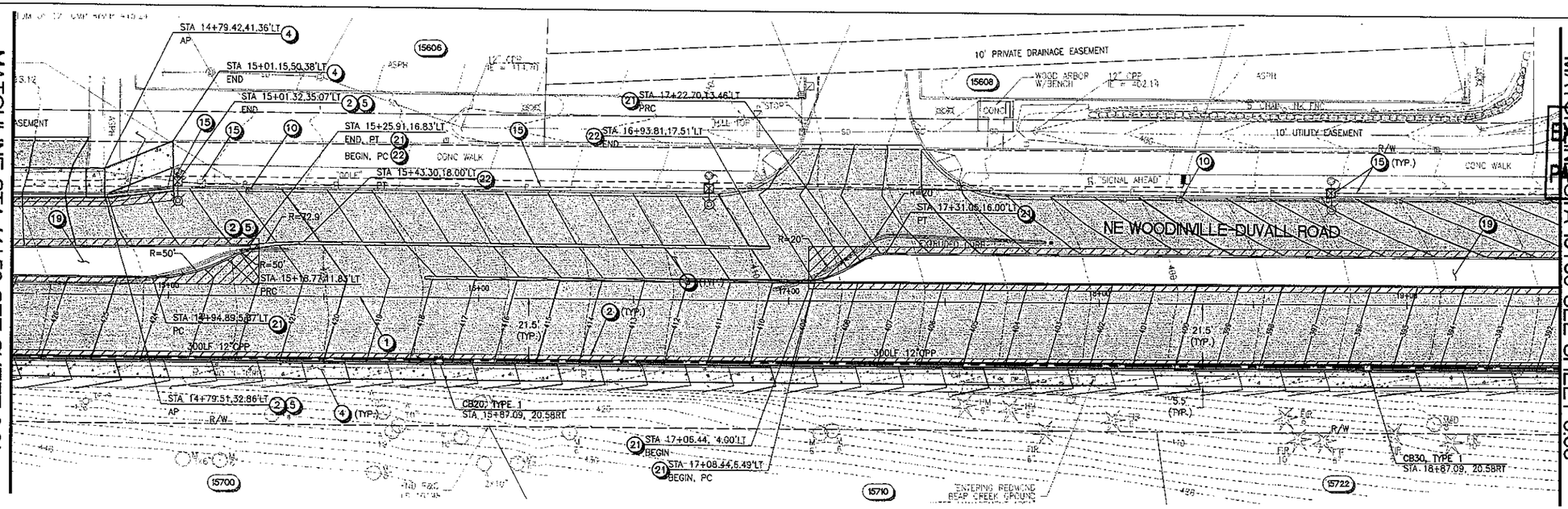
FAX: (425)489-2705

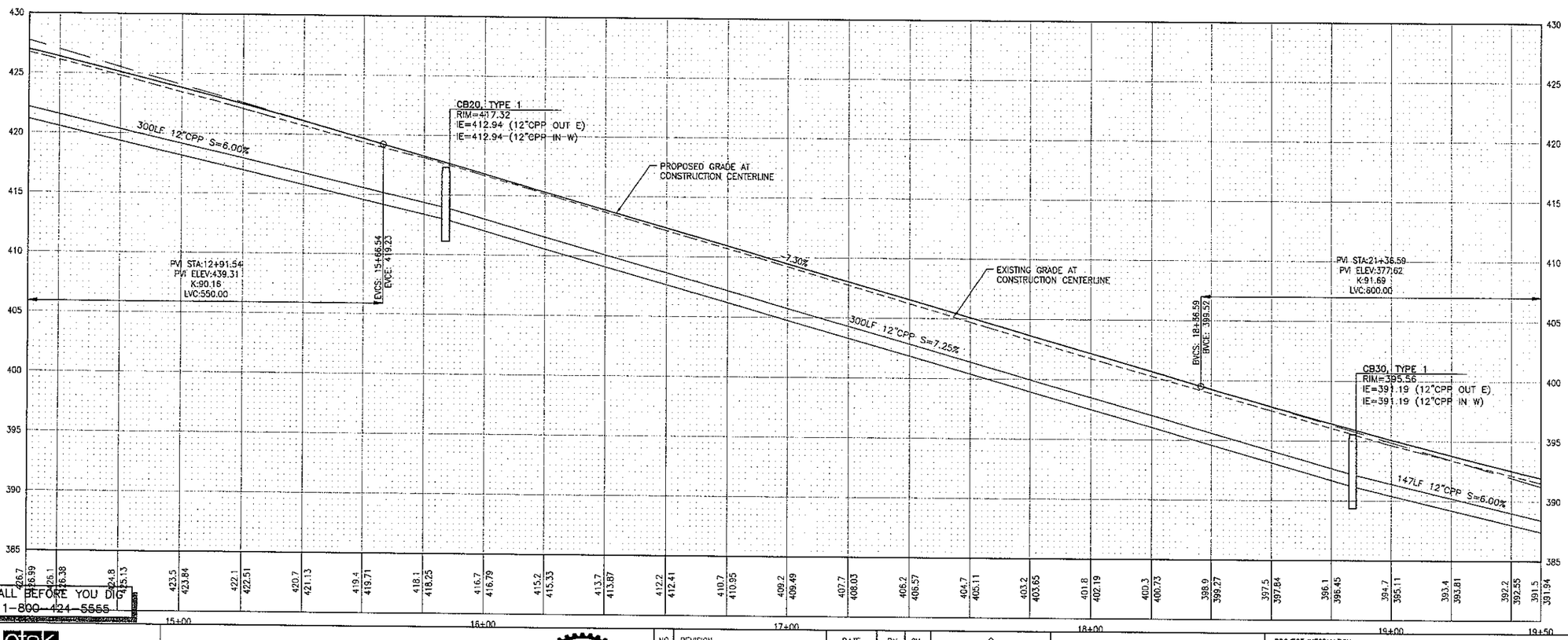
PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
ROADWAY AND DRAINAGE PLAN AND PROFILE

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 3.01	

Plotted: Oct 17, 2011 - 4:41pm CharlieF K:\project\31400\31423\Dwg\3.00.dwg Layout Name: 3.01





CONSTRUCTION NOTES

1. CONSTRUCTION CENTERLINE, SEE SHEETS 1.02 AND 1.03 FOR DETAILS.
2. CONSTRUCT ASPHALT CONCRETE PAVEMENT SECTION PER TYPICAL ROADWAY SECTION ON SHEET 3.14.
3. OVERLAY ROADWAY PER TYPICAL ROADWAY SECTION ON SHEET 3.14.
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6. CONSTRUCT CEMENT CONCRETE DRIVEWAY PER WSDOT STD PLAN F-80.10-01. TYPE PER PLAN.
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9. CONNECT TO EXISTING STORM DRAIN.
10. ADJUST EXISTING CATCH BASIN OR MANHOLE TO FINISH GRADE.
11. ADJUST EXISTING UTILITY VALVE OR BOX TO FINISH GRADE.
12. REMOVE EXISTING GRATE AND REPLACE WITH SOLID LOCKING COVER.
13. PROVIDE ETHAFOAM IF VERTICAL CLEARANCE BETWEEN PIPE IS LESS THAN 6". SEE SPECIFICATIONS FOR DETAILS.
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15. PROTECT EXISTING UTILITY DURING CONSTRUCTION.
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GENERAL NOTES

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LEGEND

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- 3" ASPHALT CONCRETE PAVEMENT OVERLAY
- FULL DEPTH ASPHALT CONCRETE PAVEMENT
- CEMENT CONCRETE SIDEWALK

HORIZ. SCALE IN FEET: 20' 0' 20' 40'

VERT. SCALE IN FEET: 5' 0' 5' 10'

EXHIBIT 3
PAGE 15 OF 14

Plotted: Oct 17, 2011 - 4:41pm Chordline: K:\project\31400\31423\Dwg\3.00.dwg Layout Name: 3.02

otak Incorporated
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WEB: WWW.OTAK.COM

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CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

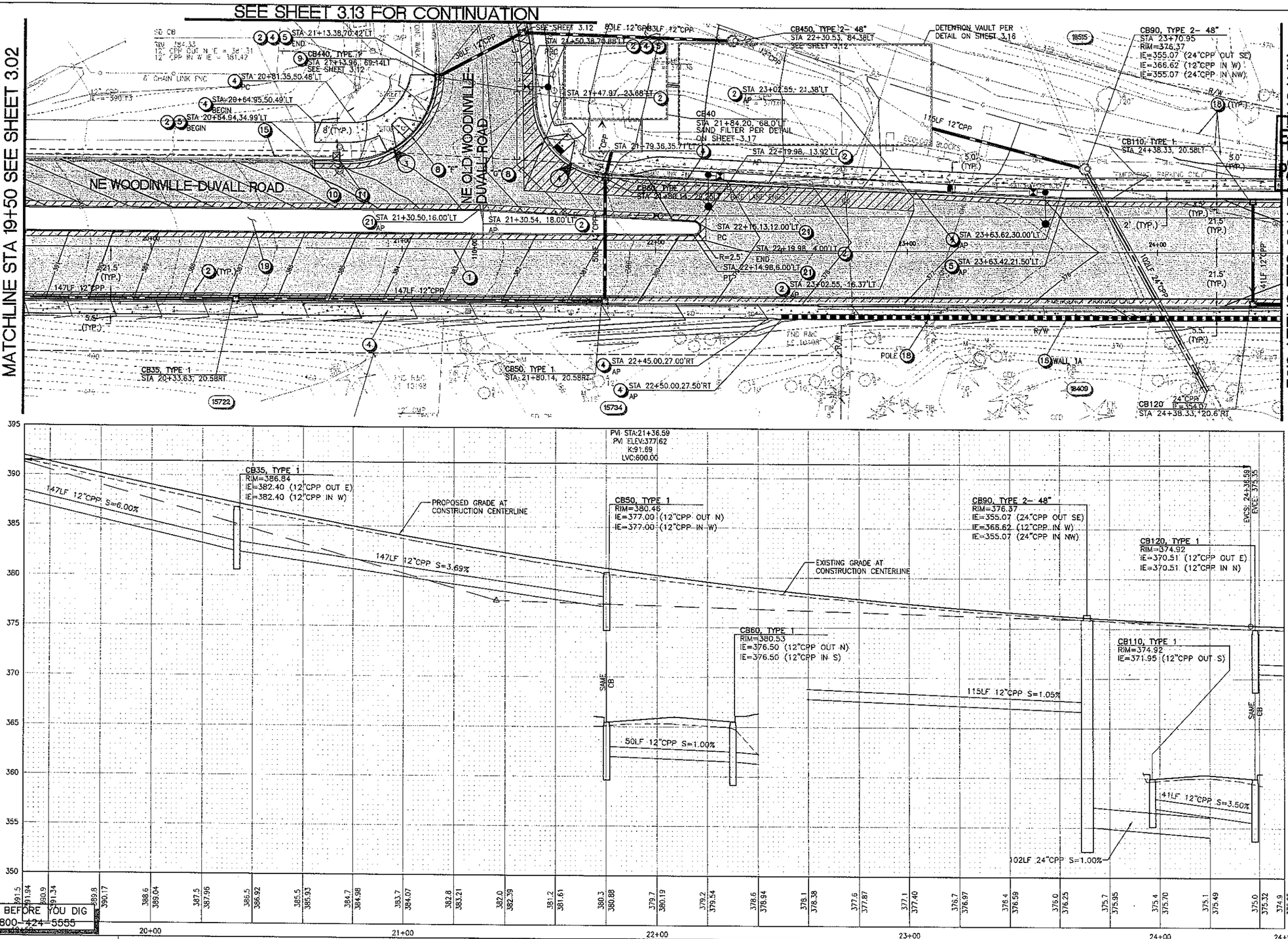
PROJECT INFORMATION

WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:

ROADWAY AND DRAINAGE PLAN AND PROFILE

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 3.02	



CONSTRUCTION NOTES

1. CONSTRUCTION CENTERLINE, SEE SHEETS 1.02 AND 1.03 FOR DETAILS.
2. CONSTRUCT ASPHALT CONCRETE PAVEMENT SECTION PER TYPICAL ROADWAY SECTION ON SHEET 3.14.
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HORIZ. SCALE 20' 0' 20' 40' IN FEET

VERT. SCALE 5' 0' 5' 10' IN FEET

EXHIBIT 3
PAGE 16 OF 114

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WEB: WWW.OTAK.COM

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CITY OF WOODINVILLE
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WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
ROADWAY AND DRAINAGE PLAN AND PROFILE

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 3.03	

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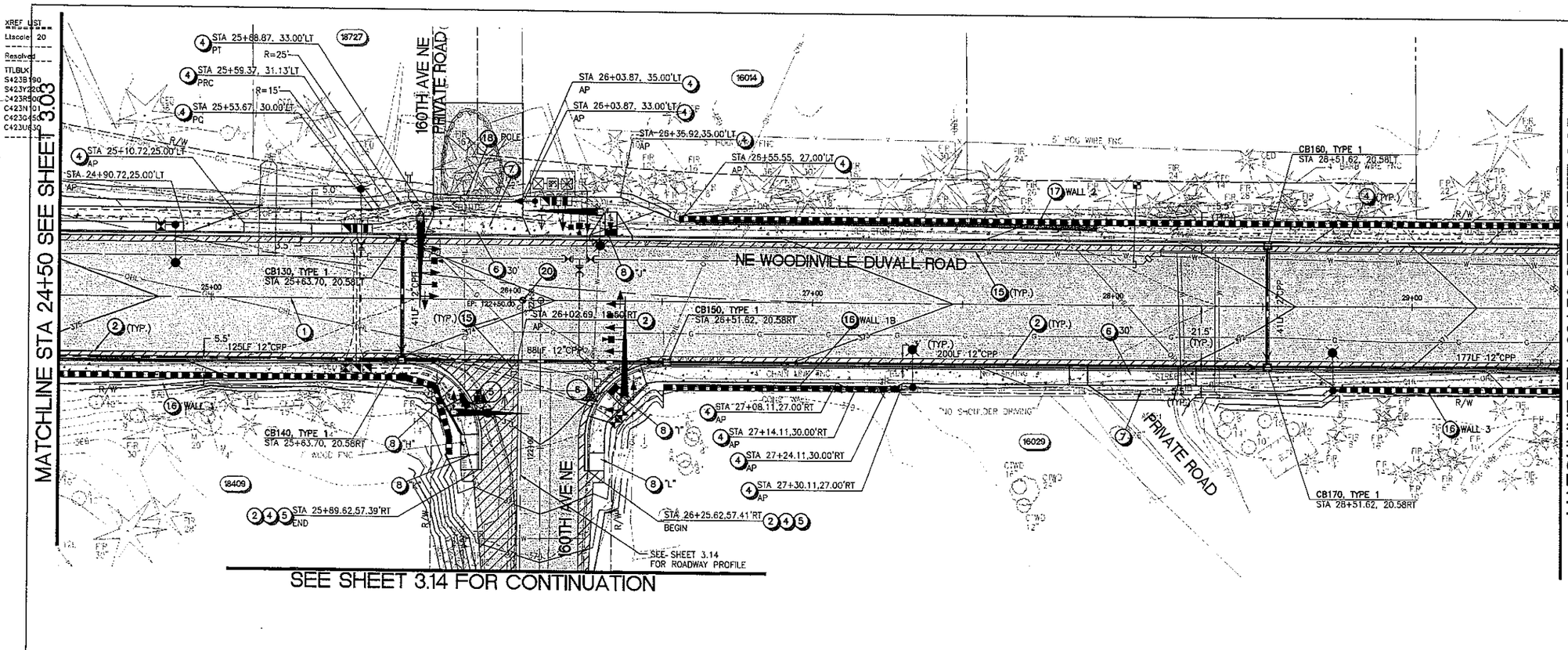

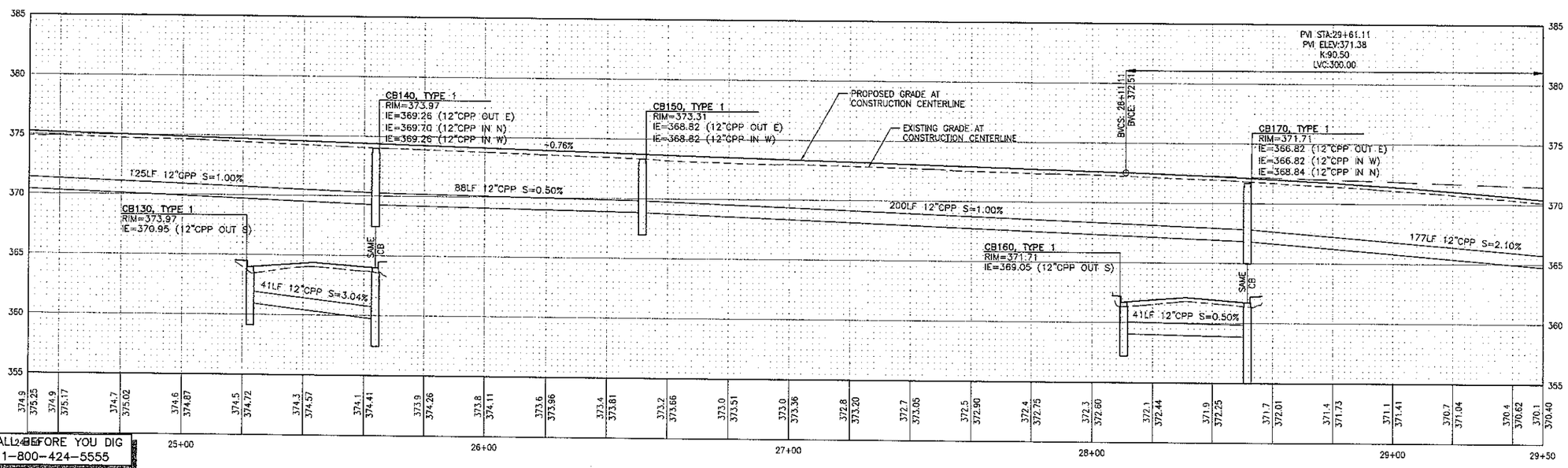

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CONSTRUCTION NOTES

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HORIZ. SCALE 20' 0' 20' 40' IN FEET
VERT. SCALE 5' 0' 5' 10' IN FEET

EXHIBIT 3
PAGE 17 OF 14

otak Incorporated
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CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
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PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
ROADWAY AND DRAINAGE PLAN AND PROFILE

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXX
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SHEET x OF x	
DRAWING NO.: 3.04	

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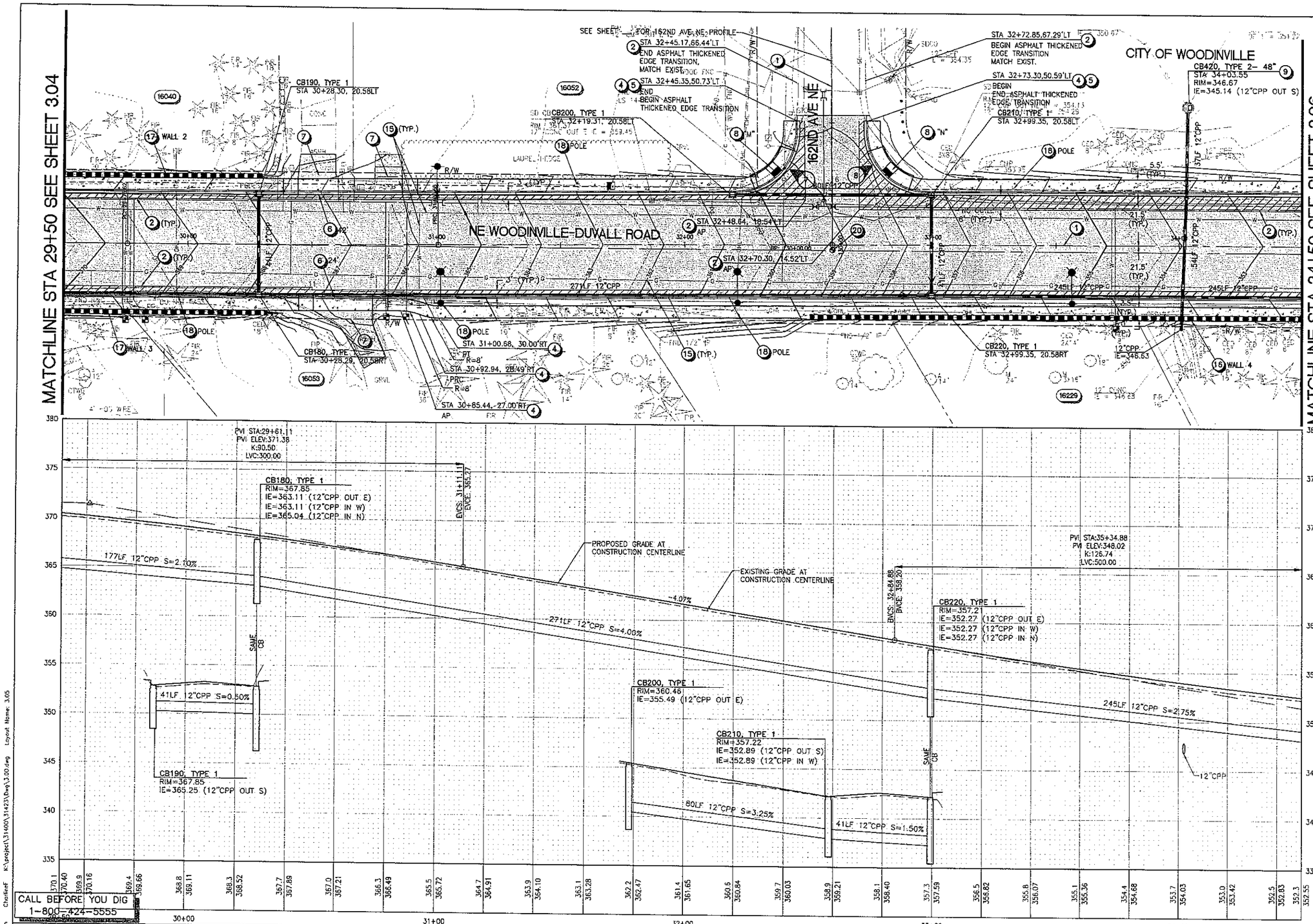

EXHIBIT 3
PAGE 18 OF 44

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LEGEND

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HORIZ. SCALE 20' 0' 20' 40' IN FEET
VERT. SCALE 5' 0' 5' 10' IN FEET

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PRELIMINARY DRAFT

P.E. STAMP BOX

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CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
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PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
ROADWAY AND DRAINAGE PLAN AND PROFILE

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 3.05	

Plotted: Oct 17, 2011 - 4:42pm CharlieF K:\project\31400\31423\Dwg\3.00.dwg Layout Name: 3.05

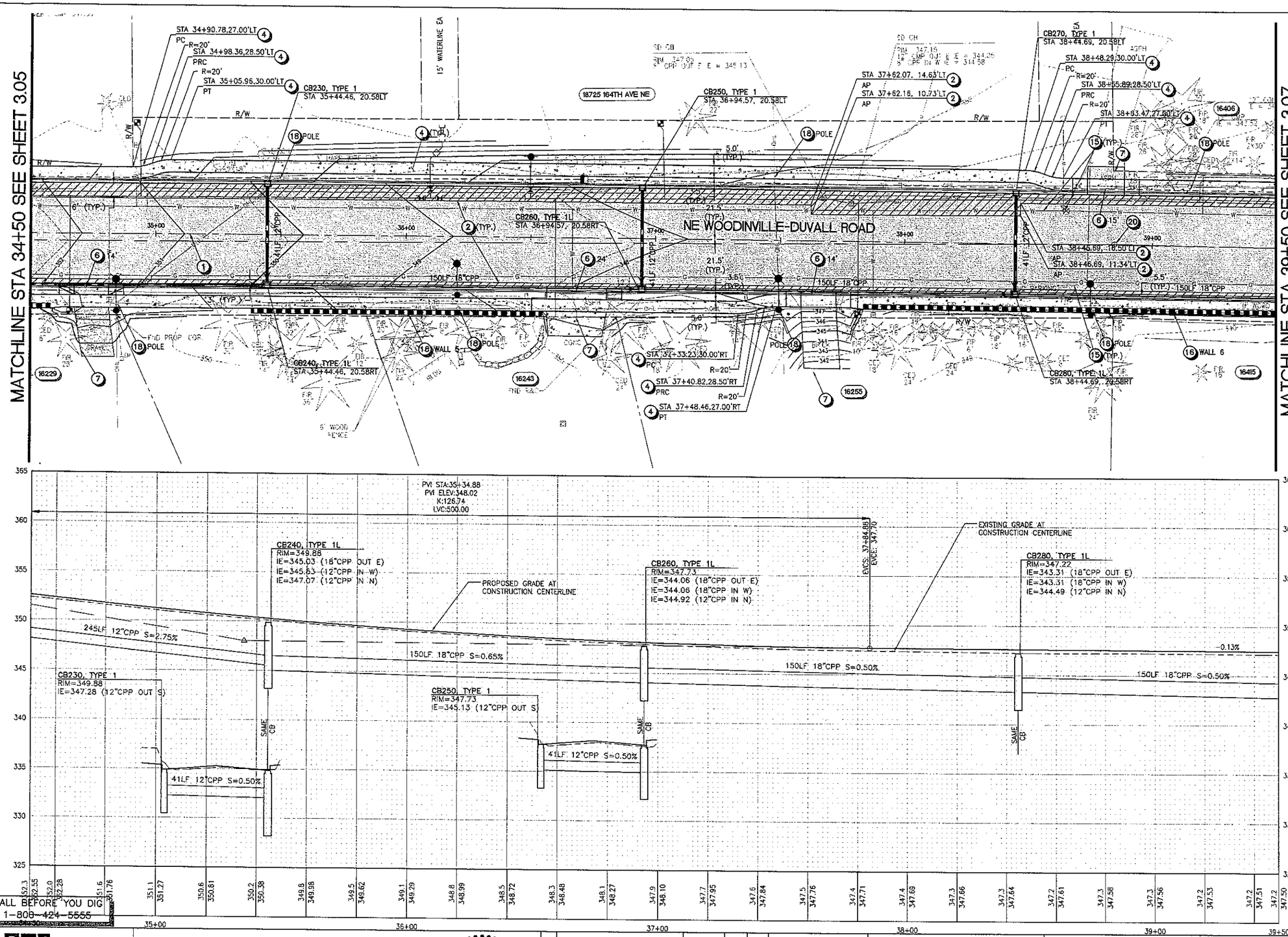

EXHIBIT 3
PAGE 19 OF 44

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NICO M. VANDERHORST, STATE OF WASHINGTON, 30792, REGISTERED PROFESSIONAL ENGINEER

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PROJECT INFORMATION

WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:

ROADWAY AND DRAINAGE PLAN AND PROFILE

DATE: Oct 2011	CHECKED BY:
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DRAWING NO.: 3.06	

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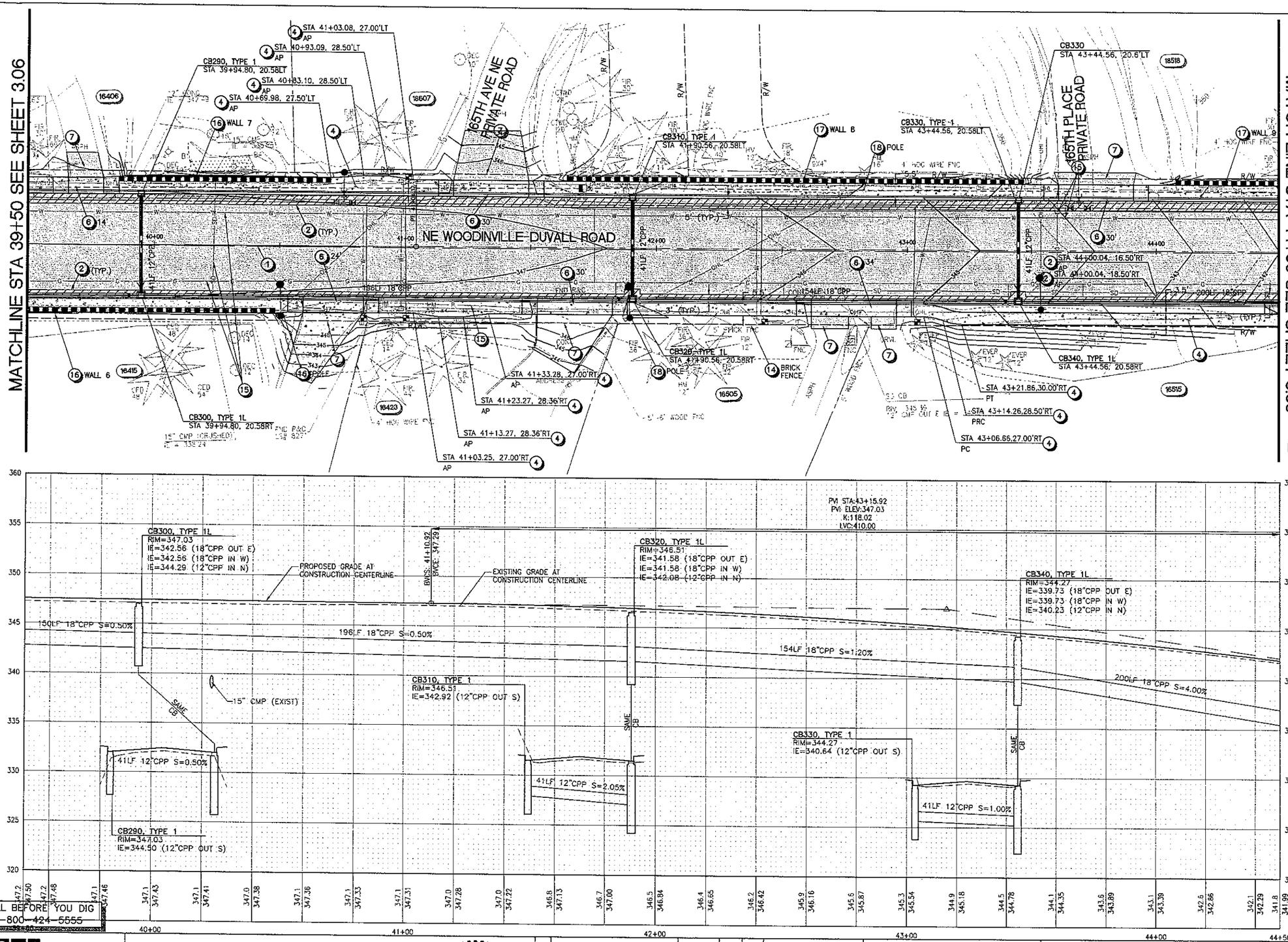

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EXHIBIT 3
PAGE 20 OF 40

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- FULL DEPTH ASPHALT CONCRETE PAVEMENT
- CEMENT CONCRETE SIDEWALK

HORIZ. SCALE 20' 0' 20' 40' IN FEET

VERT. SCALE 5' 0' 5' 10' IN FEET

otak Incorporated
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WEB: WWW.OTAK.COM

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CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION

WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:

ROADWAY AND DRAINAGE PLAN AND PROFILE

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 3.07	

Plotted: Oct 17, 2011 - 4:43pm CharlieF K:\project\31403\31423\Dwg\3.00.dwg Layout Name: 3.07

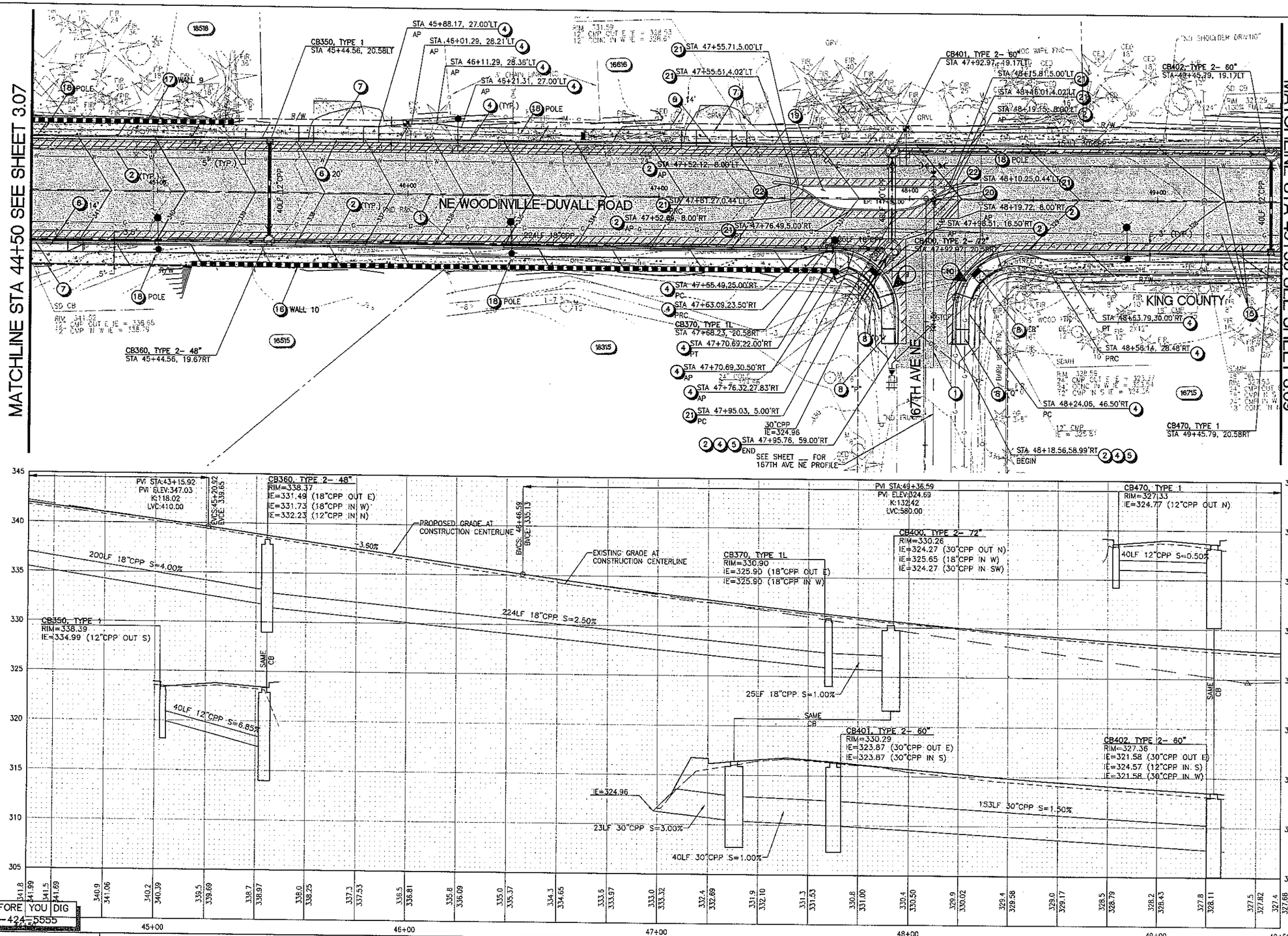

EXHIBIT 3
PAGE 2 OF 14

CONSTRUCTION NOTES

1. CONSTRUCTION CENTERLINE, SEE SHEETS 1.02 AND 1.03 FOR DETAILS.
2. CONSTRUCT ASPHALT CONCRETE PAVEMENT SECTION PER TYPICAL ROADWAY SECTION ON SHEET 3.14.
3. OVERLAY ROADWAY PER TYPICAL ROADWAY SECTION ON SHEET 3.14.
4. CONSTRUCT CEMENT CONCRETE SIDEWALK PER TYPICAL ROADWAY SECTION ON SHEET 3.14.
5. CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD PLAN F-10.12-02.
6. CONSTRUCT CEMENT CONCRETE DRIVEWAY PER WSDOT STD PLAN F-80.10-01. TYPE PER PLAN.
7. RECONSTRUCT DRIVEWAY TO THE LIMITS SHOWN, SEE SHEETS 3.XX-3.XX FOR APPLICABLE DRIVEWAY PROFILE. PAVEMENT SECTION SHALL BE 2" HMA OVER 6" CSTC.
8. CONSTRUCT SIDEWALK RAMP PER RAMP SCHEDULE ON SHEET 3.14.
9. CONNECT TO EXISTING STORM DRAIN.
10. ADJUST EXISTING CATCH BASIN OR MANHOLE TO FINISH GRADE.
11. ADJUST EXISTING UTILITY VALVE OR BOX TO FINISH GRADE.
12. REMOVE EXISTING GRATE AND REPLACE WITH SOLID LOCKING COVER.
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SHEET TITLE:

ROADWAY AND DRAINAGE PLAN AND PROFILE

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 3.08	

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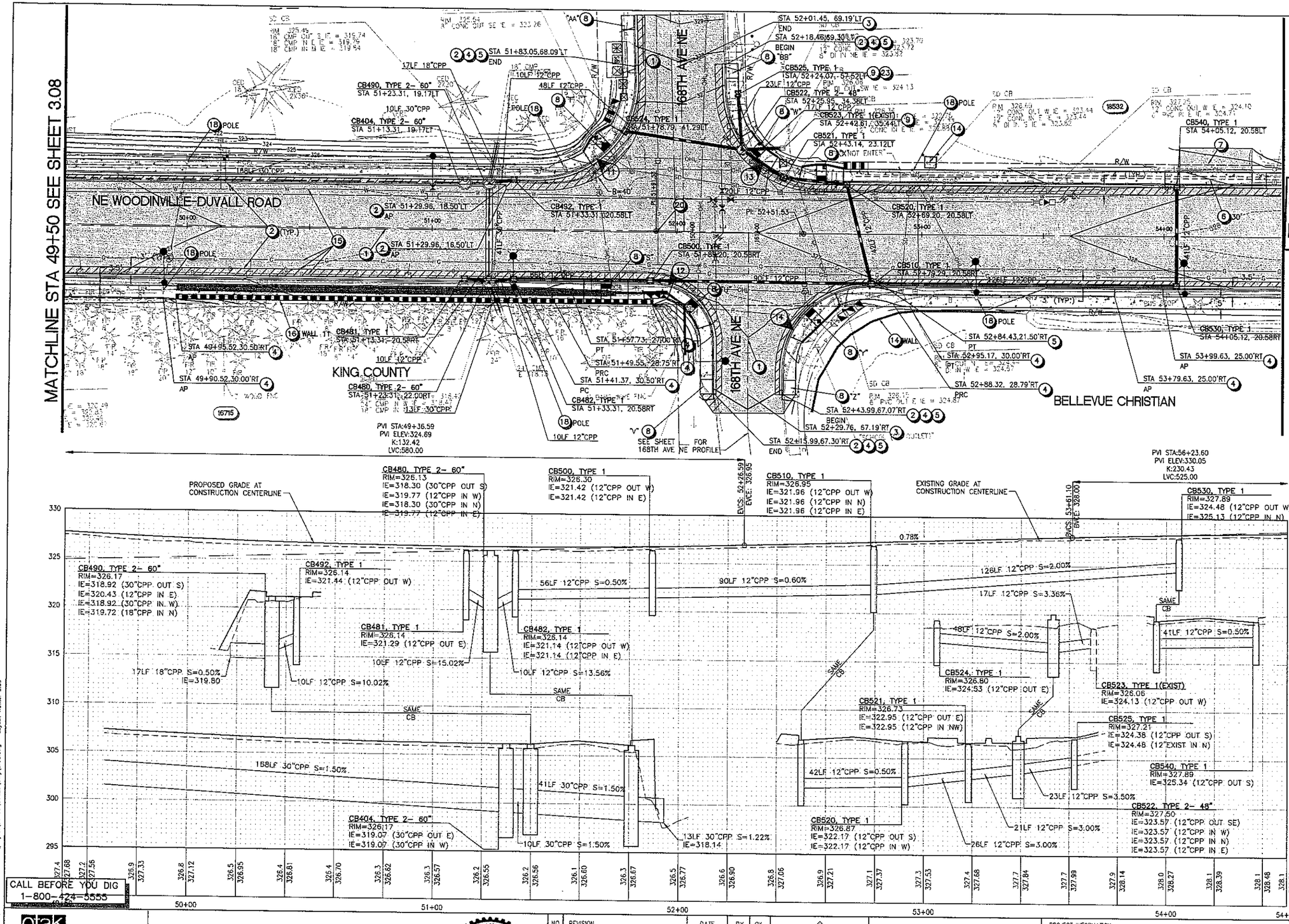

EXHIBIT 3
PAGE 22 OF 114

CONSTRUCTION NOTES

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VERT SCALE 5' 0' 5' 10' IN FEET

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PROJECT INFORMATION

WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:

ROADWAY AND DRAINAGE PLAN AND PROFILE

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 3.09	

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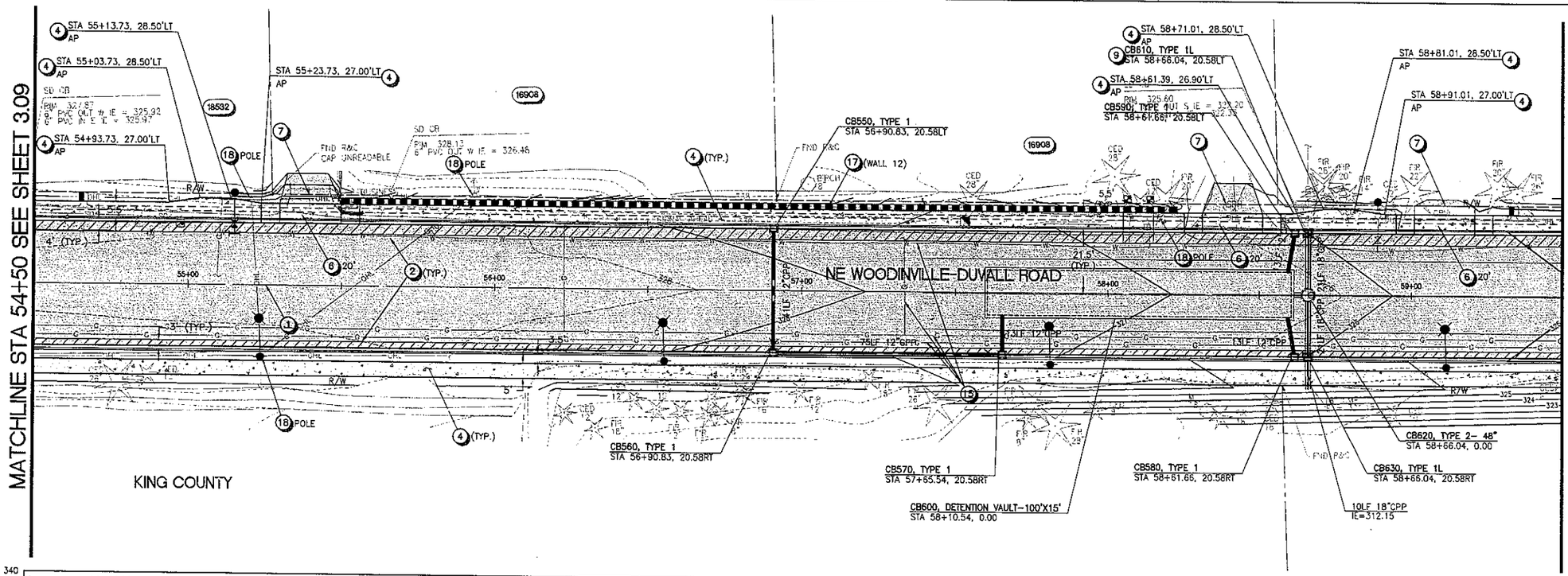

EXHIBIT 3
PAGE 23 OF 110

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P.E. STAMP BOX

NICO M. VANDERHORST, STATE OF WASHINGTON, 30793, REGISTERED PROFESSIONAL ENGINEER

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PROJECT INFORMATION

WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:

ROADWAY AND DRAINAGE PLAN AND PROFILE

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 3.10	

Plotted: Oct 17, 2011 - 4:45pm Checked: K:\project\31400\31423\Dwg\3.00.dwg Layout Name: 3.10

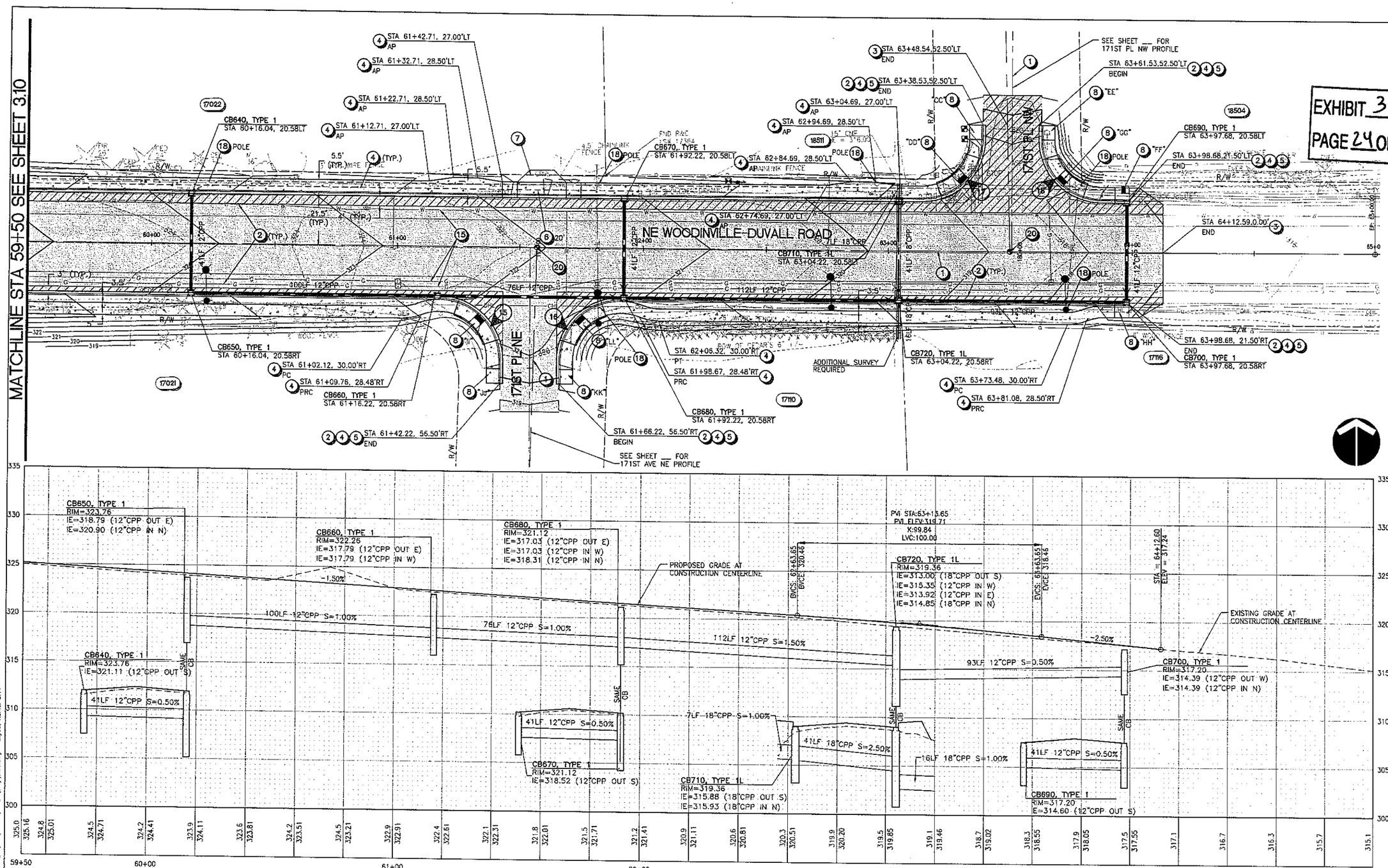

EXHIBIT 3
PAGE 24 OF 114

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1. CONSTRUCTION CENTERLINE, SEE SHEETS 1.02 AND 1.03 FOR DETAILS.
2. CONSTRUCT ASPHALT CONCRETE PAVEMENT SECTION PER TYPICAL ROADWAY SECTION ON SHEET 3.14.
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PROJECT INFORMATION

WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:

ROADWAY AND DRAINAGE PLAN AND PROFILE

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXX
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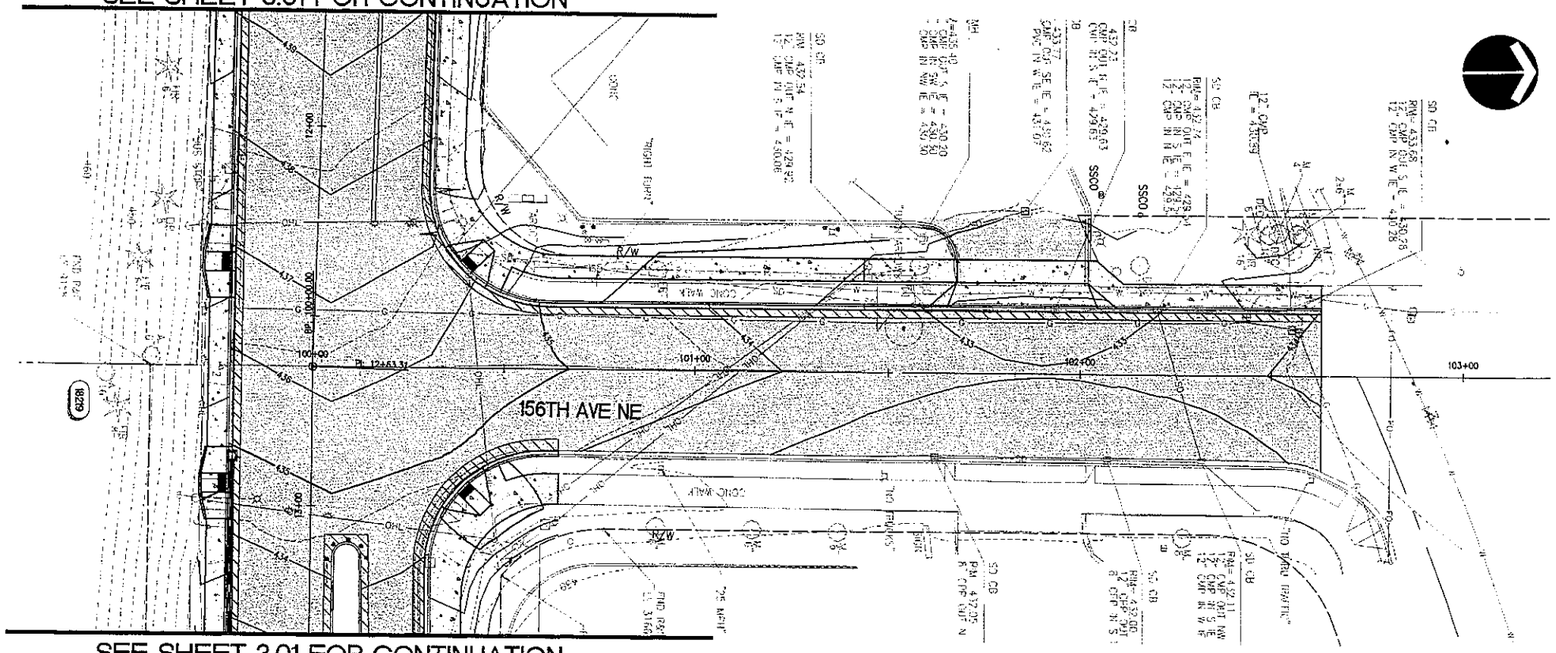
SHEET X OF X	
DRAWING NO.: 3.11	

Plotted: Oct 17, 2011 - 4:45pm Chariline? K:\project\31400\31421\dwg\3.00.dwg Layout Name: 3.11

SEE SHEET 3.01 FOR CONTINUATION



SEE SHEET 3.01 FOR CONTINUATION

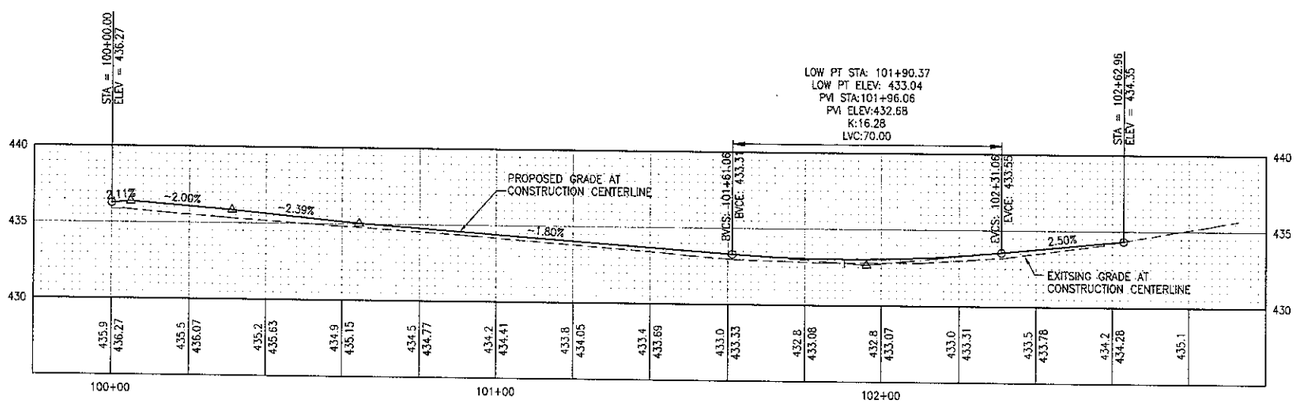


EXHIBIT 3
PAGE 25 OF 114

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SHEET TITLE:

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DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 3.12	

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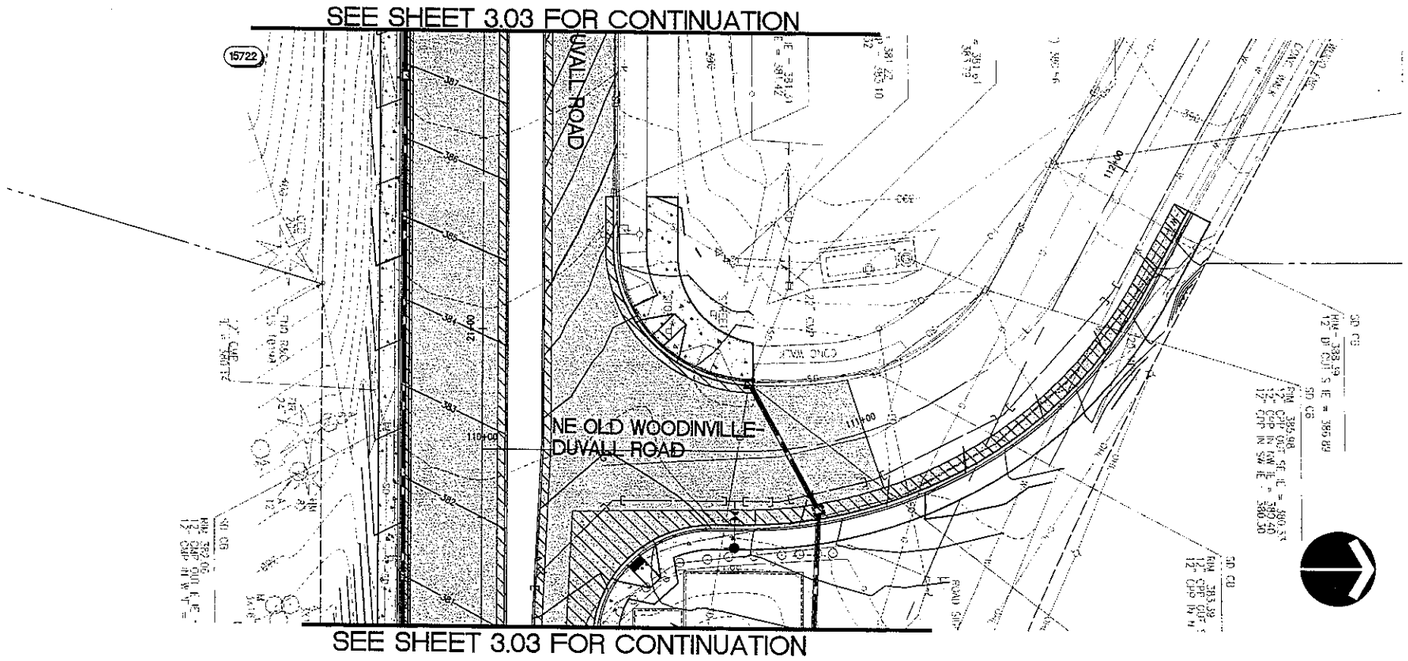

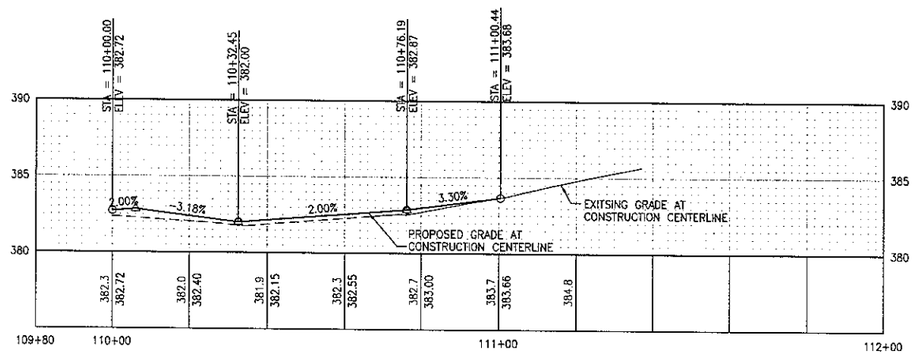

EXHIBIT 3
PAGE 26 OF 114

CONSTRUCTION NOTES

1. CONSTRUCTION CENTERLINE, SEE SHEETS 1.02 AND 1.03 FOR DETAILS.
2. CONSTRUCT ASPHALT CONCRETE PAVEMENT SECTION PER TYPICAL ROADWAY SECTION ON SHEET 3.14.
3. OVERLAY ROADWAY PER TYPICAL ROADWAY SECTION ON SHEET 3.14.
4. CONSTRUCT CEMENT CONCRETE SIDEWALK PER TYPICAL ROADWAY SECTION ON SHEET 3.14.
5. CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD PLAN F-10.12-02.
6. CONSTRUCT CEMENT CONCRETE DRIVEWAY PER WSDOT STD PLAN F-80.10-01. TYPE PER PLAN.
7. RECONSTRUCT DRIVEWAY TO THE LIMITS SHOWN, SEE SHEETS 3.XX-3.XX FOR APPLICABLE DRIVEWAY PROFILE. PAVEMENT SECTION SHALL BE 2" HMA OVER 4" CSTC.
8. CONSTRUCT SIDEWALK RAMP PER RAMP SCHEDULE ON SHEET 3.14.
9. CONNECT TO EXISTING STORM DRAIN.
10. ADJUST EXISTING CATCH BASIN OR MANHOLE TO FINISH GRADE.
11. ADJUST EXISTING UTILITY VALVE OR BOX TO FINISH GRADE.
12. REMOVE EXISTING GRATE AND REPLACE WITH SOLID LOCKING COVER.
13. PROVIDE ETHAFOAM IF VERTICAL CLEARANCE BETWEEN PIPE IS LESS THAN 6". SEE SPECIFICATIONS FOR DETAILS.
14. EXISTING LANDSCAPE FEATURE OR STRUCTURE TO REMAIN, PROTECT DURING CONSTRUCTION.
15. PROTECT EXISTING UTILITY DURING CONSTRUCTION.
16. CONSTRUCT MODULAR BLOCK WALL PER DETAIL AND WALL TABLE ON SHEET 5.07.
17. CONSTRUCT SOLDIER PILE WALL PER DETAILS AND PROFILE ON SHEETS 5.01-5.06.
18. EXISTING UTILITY TO BE RELOCATED, REMOVED AND/OR ADJUSTED TO FINISH GRADE BY OTHERS. CONTRACTOR SHALL WORK AROUND THE FACILITY UNTIL RELOCATION/ADJUSTMENT WORK IS COMPLETED.
19. LANDSCAPE ISLAND PER DETAIL ON SHEET 3.14.
20. INSTALL OR RESET SURVEY MONUMENT AND CASE PER CITY OF WOODINVILLE STD PLAN 380.
21. CONSTRUCT CEMENT CONCRETE TRAFFIC CURB PER WSDOT STD PLAN F-10.12-02.
22. CONSTRUCT PRECAST CEMENT CONCRETE DUAL FACED SLOPED MOUNTABLE CURB PER WSDOT STD PLAN F-10.64-02.
23. INSTALL SOLID LOCKING COVER PER WSDOT STD PLAN B-30.20-01.

GENERAL NOTES

1. ALL DIMENSIONS AND STATION AND OFFSET REFERENCES ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.
2. CONSTRUCTION CENTERLINE AND RIGHT-OF-WAY CENTERLINE ARE NOT THE SAME. STATION AND OFFSET REFERENCES ARE TO CONSTRUCTION CENTERLINE.
3. ALL STORM DRAIN PIPE SHALL BE 12" CORRUGATED POLYETHYLENE PIPE UNLESS NOTED OTHERWISE.

LEGEND

- REFERENCE CURB RETURN DATA TABLE ON SHEET 3.14
- 3" ASPHALT CONCRETE PAVEMENT OVERLAY
- FULL DEPTH ASPHALT CONCRETE PAVEMENT
- CEMENT CONCRETE SIDEWALK

HORIZ. SCALE 20' 0' 20' 40' IN FEET

VERT. SCALE 5' 0' 5' 10' IN FEET

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P.E. STAMP BOX

STATE OF WASHINGTON
MICO H. VANDERHORST
30792
REGISTERED PROFESSIONAL ENGINEER

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3				
4				
5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION

WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:

ROADWAY AND DRAINAGE PLAN AND PROFILE

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 3.13	

Plotted: Oct 17, 2011 - 4:47pm CharlineF K:\project\31400\31423\Dwg\3.12.dwg Layout Name: 3.13

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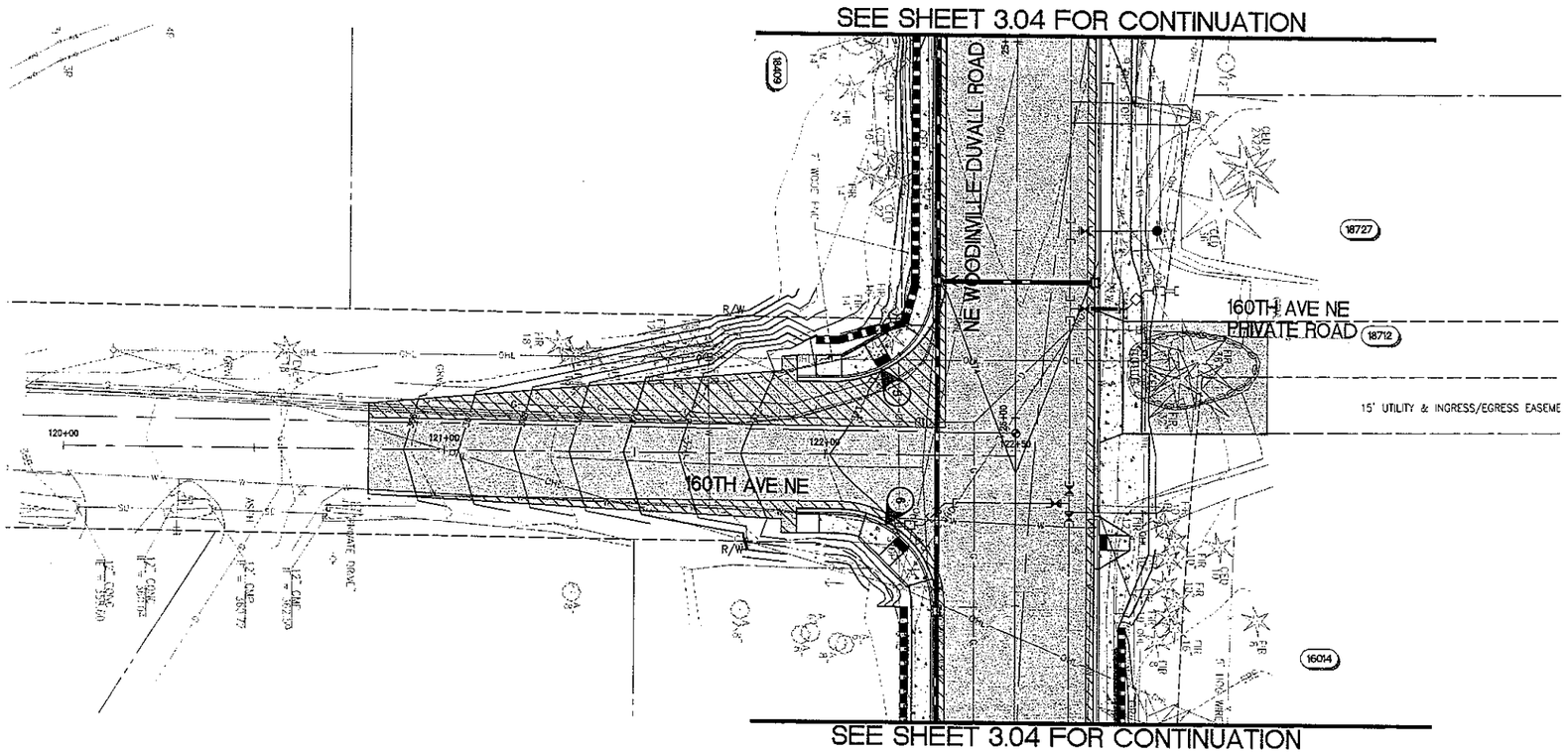
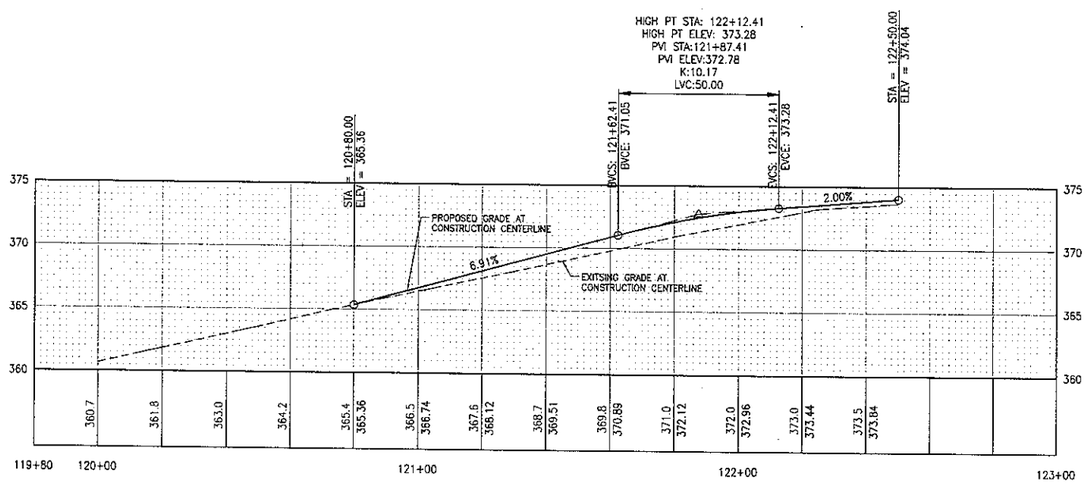


EXHIBIT 3
PAGE 27 OF 14



CONSTRUCTION NOTES

1. CONSTRUCTION CENTERLINE, SEE SHEETS 1.02 AND 1.03 FOR DETAILS.
2. CONSTRUCT ASPHALT CONCRETE PAVEMENT SECTION PER TYPICAL ROADWAY SECTION ON SHEET 3.14.
3. OVERLAY ROADWAY PER TYPICAL ROADWAY SECTION ON SHEET 3.14.
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9. CONNECT TO EXISTING STORM DRAIN.
10. ADJUST EXISTING CATCH BASIN OR MANHOLE TO FINISH GRADE.
11. ADJUST EXISTING UTILITY VALVE OR BOX TO FINISH GRADE.
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13. PROVIDE ETHAFOAM IF VERTICAL CLEARANCE BETWEEN PIPE IS LESS THAN 6". SEE SPECIFICATIONS FOR DETAILS.
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LEGEND

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- 3" ASPHALT CONCRETE PAVEMENT OVERLAY
- FULL DEPTH ASPHALT CONCRETE PAVEMENT
- CEMENT CONCRETE SIDEWALK

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PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
ROADWAY AND DRAINAGE PLAN AND PROFILE

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: FW10-XXX
DRAWN BY:	SCALE: 1"=20'
SHEET x OF x	
DRAWING NO.: 3.14	

Plotted: Oct 17, 2011 - 4:48pm Chorline: K:\project\31400\31423\Dwg\3.12.dwg Layout Name: 3.14

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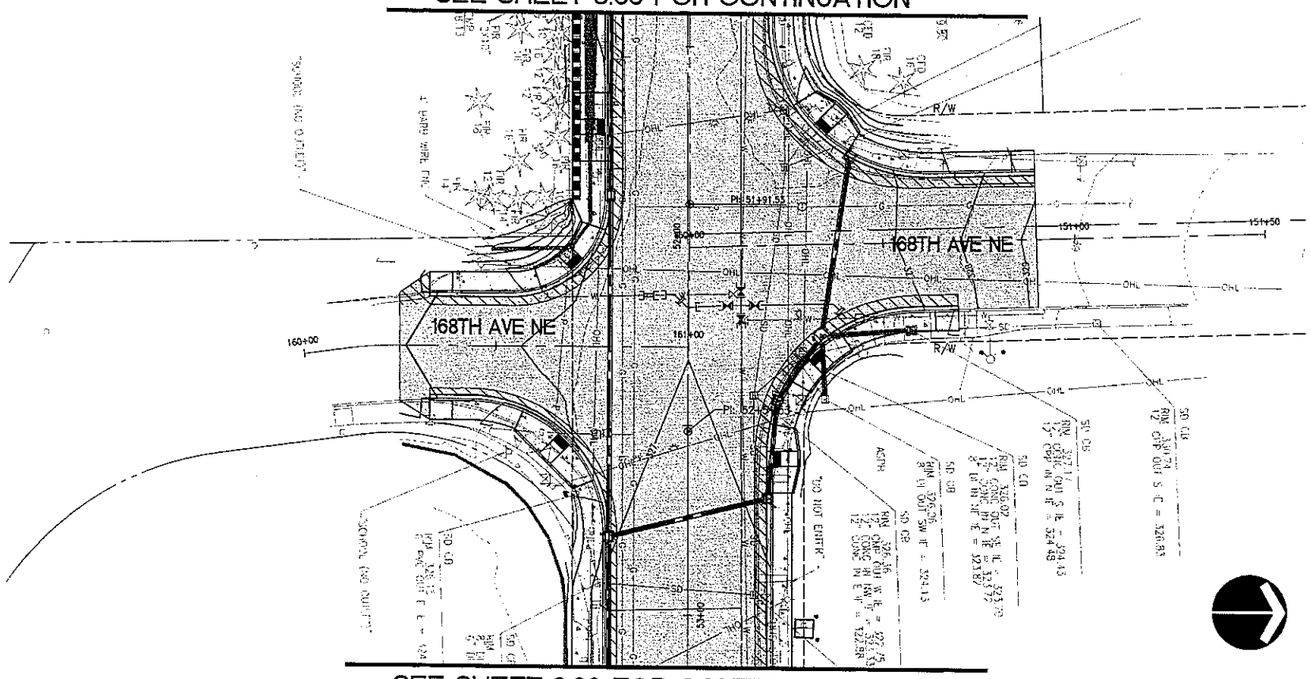
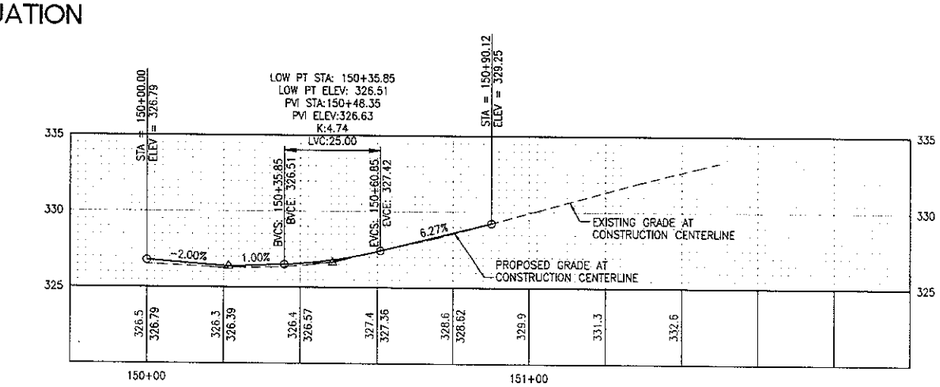


SEE SHEET 3.09 FOR CONTINUATION



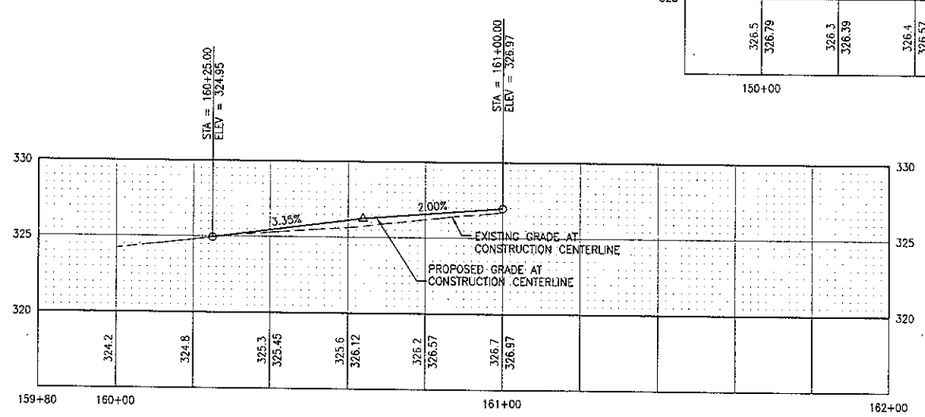


EXHIBIT 3
PAGE 28 OF 44

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- CEMENT CONCRETE SIDEWALK

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P.E. STAMP BOX

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STATE OF WASHINGTON
40792
REGISTERED PROFESSIONAL ENGINEER

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FAX: (425)489-2705

PROJECT INFORMATION

WOODINVILLE-DUVALL
ROAD WIDENING PROJECT

SHEET TITLE:

ROADWAY AND
DRAINAGE PLAN
AND PROFILE

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 3.15	

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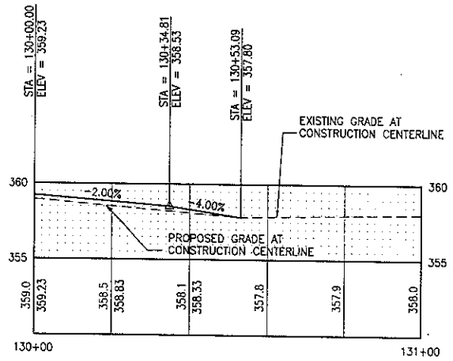

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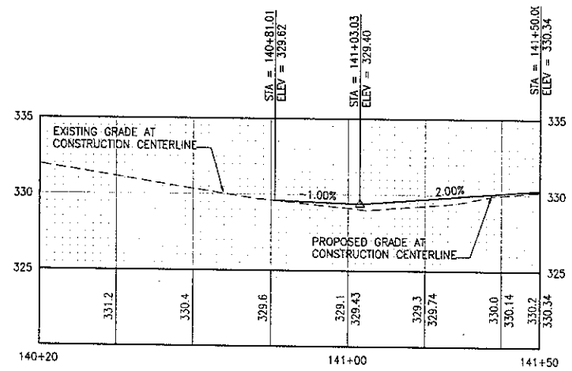

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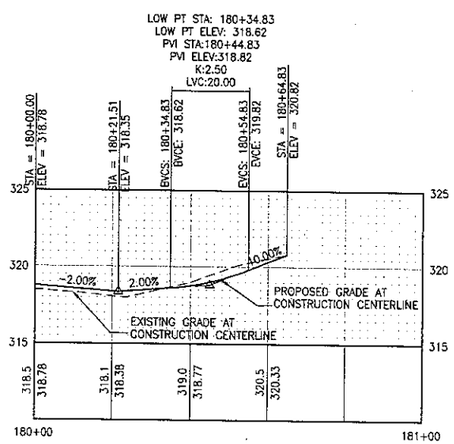
EXHIBIT 3
PAGE 29 OF 14



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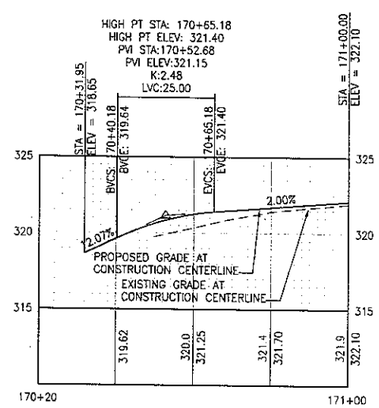

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PROFESSIONAL ENGINEER

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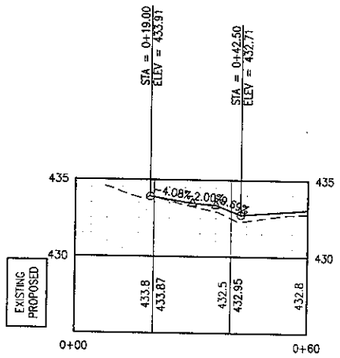
PROJECT INFORMATION
WOODINVILLE-DUVALL
ROAD WIDENING PROJECT

SHEET TITLE:
ROADWAY
PROFILES

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE: AS SHOWN
SHEET X OF X	
DRAWING NO.: 3.16	

Plotted: Oct 17, 2011 - 4:56pm CherisneF K:\project\31400\31423\Dwg\3.16.dwg Layout Name: 3.16



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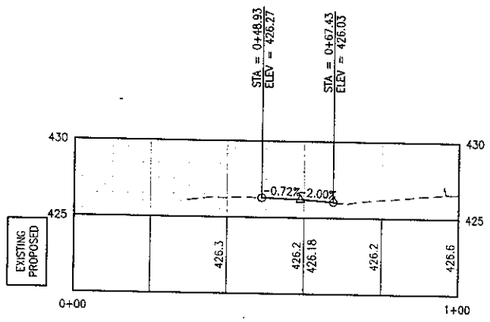

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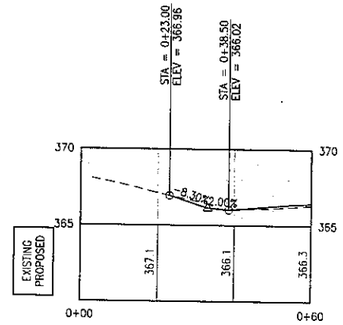

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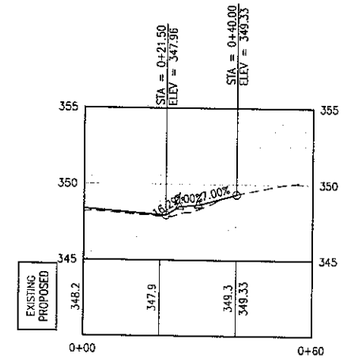

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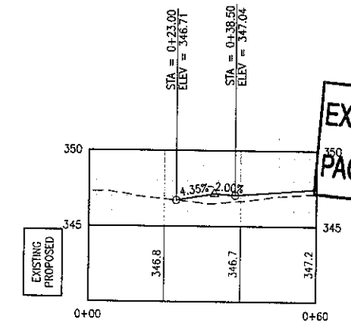

EXHIBIT 3
PAGE 30 OF 114

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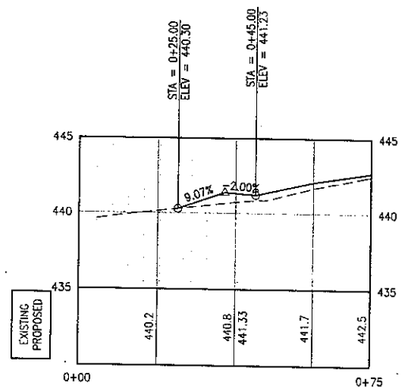

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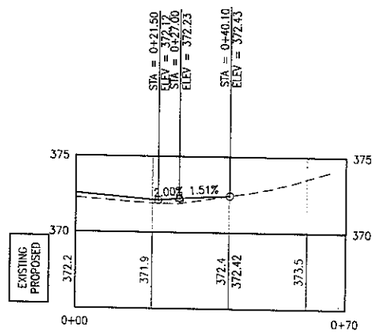

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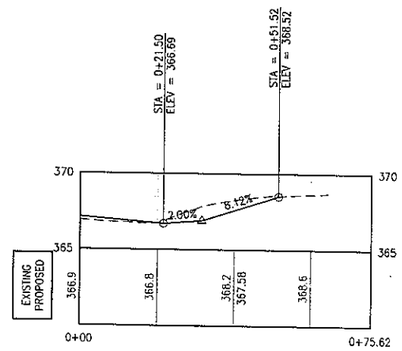

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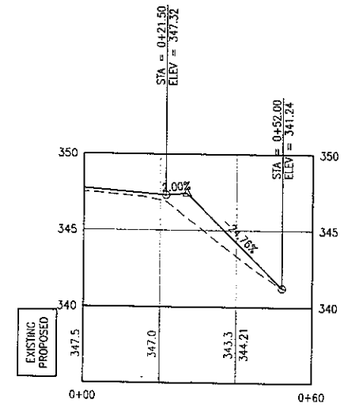

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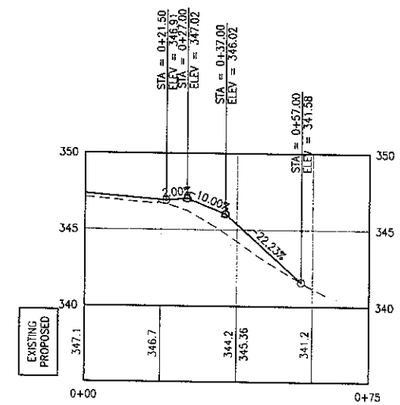

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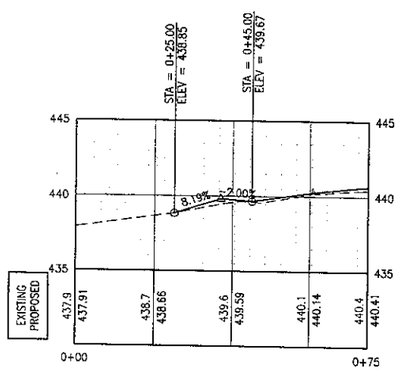

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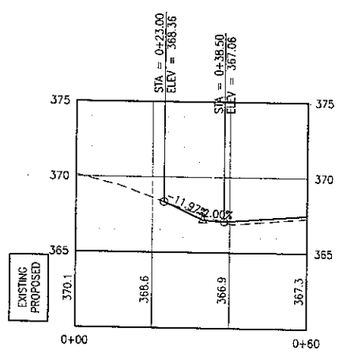

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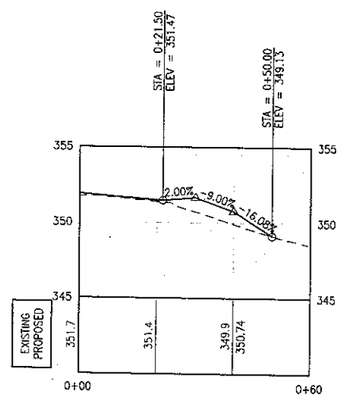

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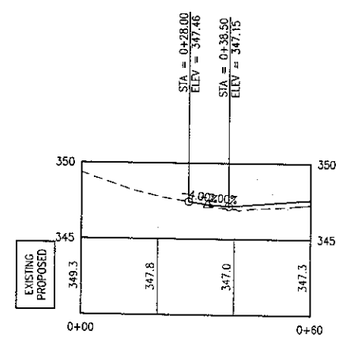

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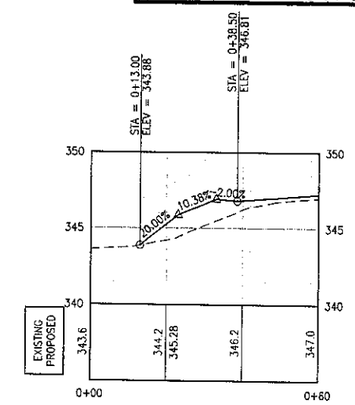

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Kirkland, Washington 98033
Phone: (425) 822-4446
FAX: (425) 827-9577
WEB: WWW.OTAK.COM

PRELIMINARY DRAFT

P.E. STAMP BOX

DICO M. VANDERHOEVEN
STATE OF WASHINGTON
30792
REGISTERED
PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY	CK
1				
2				
3				
4				
5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION

WOODINVILLE-DUVALL
ROAD WIDENING PROJECT

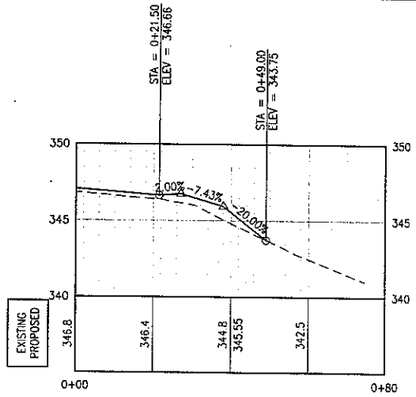
SHEET TITLE:

DRIVEWAY
PROFILES

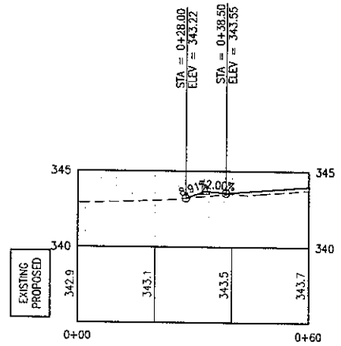
DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE: AS SHOWN
SHEET X OF X	
DRAWING NO.: 3.17	

Plotted: Oct 17, 2011 - 4:57pm CharlineF K:\project\31400\31423\Dwg\3.17.dwg Layout Name: 3.17

EXHIBIT 3
PAGE 31 OF 114



#16423 STA 41+68



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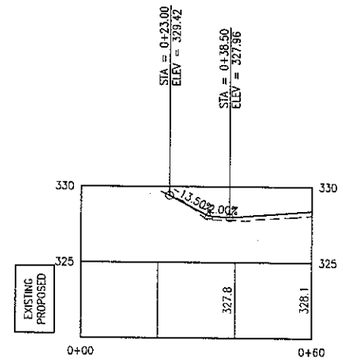
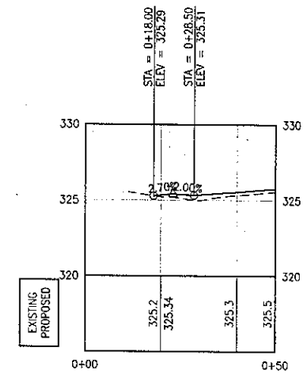
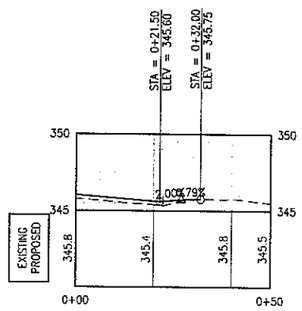


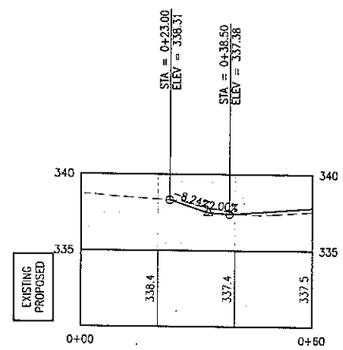
#18532 STA 54+21



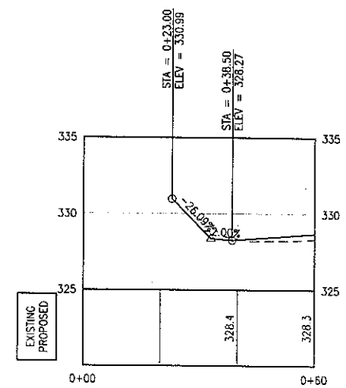
#17022 STA 59+11



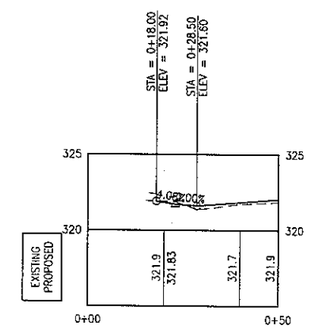
#16505 STA 42+69



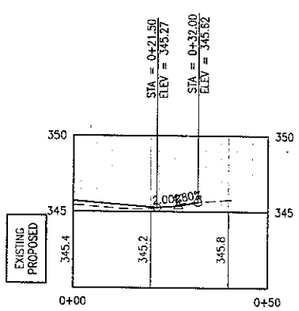
#16616 STA 45+72



#16908 STA 55+40



#17022 61+59



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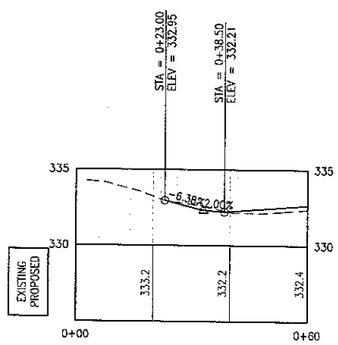

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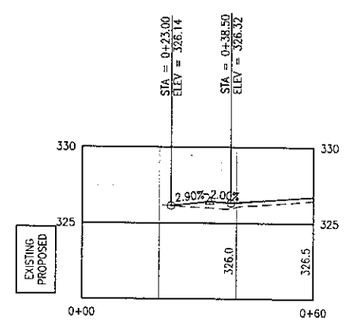

#16908 STA 58+41

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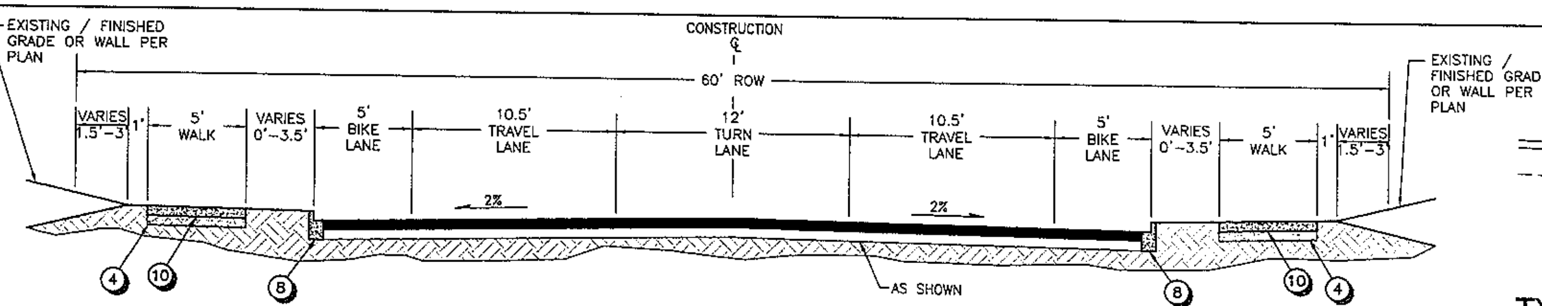
PROJECT INFORMATION
WOODINVILLE-DUVALL
ROAD WIDENING PROJECT

SHEET TITLE:
DRIVEWAY
PROFILES

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE: AS SHOWN
SHEET X OF X	
DRAWING NO.: 3.17	

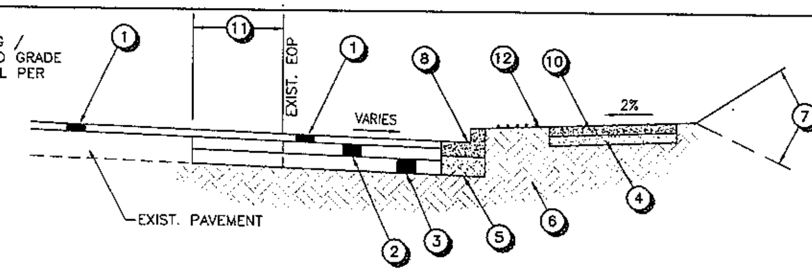
Plotted: Oct 17, 2011 - 4:58pm CharlieF K:\project\31400\31423\Dwg\3.17.dwg Layout Name: 3.18

EXHIBIT 3
PAGE 32 OF 114



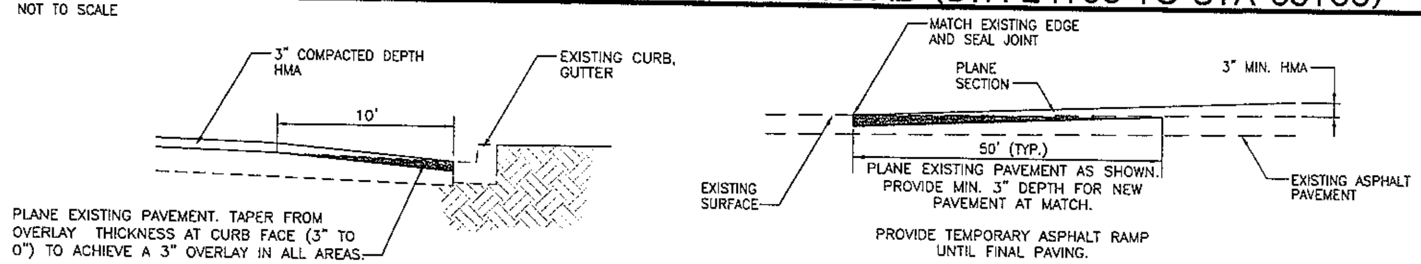
ROADWAY SECTION - NE WOODINVILLE-DUVALL ROAD (STA 24+00 TO STA 63+00)

NOT TO SCALE



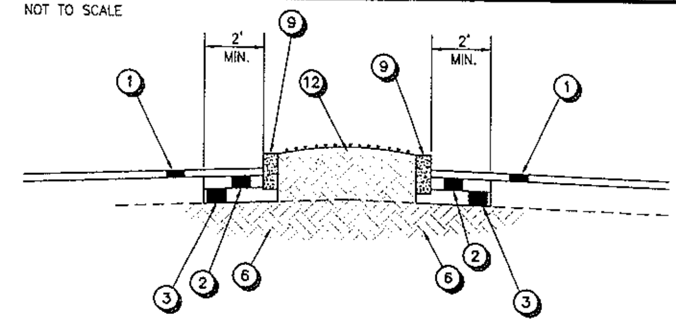
TYPICAL ROADWAY WIDENING SECTION

NOT TO SCALE



PAVEMENT PLANING

NOT TO SCALE



TYPICAL LANDSCAPE ISLAND SECTION

NOT TO SCALE

TYPICAL ROADWAY SECTION NOTES

1. 3" HMA 0.25FT COMPACTED DEPTH, CLASS 1/2" PG 64-22, OVERLAY.
2. 5" HMA, CLASS 1/2" PG 64-22
3. 6" CRUSHED SURFACING TOP COURSE.
4. 4" CRUSHED SURFACING TOP COURSE.
5. 8" CRUSHED SURFACING TOP COURSE.
6. SUBGRADE COMPACTED TO 95% OF MAXIMUM DENSITY PER ASTM D-1557. SUBGRADE TO CONSIST OF UNDISTURBED NATIVE MATERIALS OR STRUCTURAL FILL. STRUCTURAL FILL MATERIAL TO CONSIST OF SUITABLE ON-SITE MATERIALS ~~OR GRAVEL BORROW AS DESCRIBED~~ IN SPECIFICATIONS.
7. FINISHED GRADE NOT STEEPER THAN 3H:1V UNLESS NOTED OTHERWISE; MATCH EXISTING GRADE.
8. CEMENT CONCRETE TRAFFIC CURB AND GUTTER, PER WSDOT STANDARD PLAN F-10.12-02.
9. CEMENT CONCRETE TRAFFIC CURB, PER WSDOT STANDARD PLAN F-10.12-02.
10. CEMENT CONCRETE SIDEWALK, WIDTH AND LOCATION AS SPECIFIED ON PLANS, PER WSDOT STD PLAN F-30.10-01.
11. SAWCUT 2' MIN. FROM EDGE OF PAVEMENT AND SEAL WITH AR 4000 JOINT SEALER, UNLESS OTHERWISE SHOWN ON PLAN.
12. PLANTER STRIP ISLAND, WIDTH AND LOCATION AS SPECIFIED ON PLANS. SEE LANDSCAPE PLANS FOR DETAILS.

GENERAL NOTES

1. ALL DEPTHS SHOWN ARE MINIMUM COMPACTED DEPTHS.
2. ALL COMPACTION SHALL BE 95% OF MAXIMUM DENSITY PER ASTM D-1557.
3. SEE ROADWAY AND DRAINAGE PLANS FOR LAYOUT.
4. CONSTRUCTION JOINTS SHALL BE PLACED IN THE CENTER OF THE LANE OR AT THE LANE STRIPE.

CURB RETURN (1)
PC STA:12+14.08, 30.00'LT FL: 437.58
1/4 FL: 436.91
1/2 FL: 436.23
3/4 FL: 435.55
PT STA:12+44.06, 60.86'LT FL: 434.86
Δ=91°38'10"
R=30.000
L=47.981

CURB RETURN (2)
PC STA:12+85.42, 60.87'LT FL: 434.21
1/4 FL: 434.55
1/2 FL: 434.66
3/4 FL: 434.40
PT STA:13+15.74, 31.07'LT FL: 433.85
Δ=90°15'20"
R=30.000
L=47.258

CURB RETURN (3)
PC STA:20+78.38, 35.00'LT FL: 383.65
1/4 FL: 383.18
1/2 FL: 382.81
3/4 FL: 382.43
PT STA:21+13.38, 69.99'LT FL: 381.95
Δ=89°59'03"
R=35.000
L=54.968

CURB RETURN (4)
PC STA:21+50.38, 60.19'LT FL: 382.08
1/4 FL: 381.67
1/2 FL: 381.39
3/4 FL: 381.01
PT STA:21+78.96, 30.23'LT FL: 380.55
Δ=87°16'35"
R=30.000
L=45.698

CURB RETURN (17)
PC STA:63+13.53, 21.50'LT FL: 319.16
1/4 FL: 319.09
1/2 FL: 319.02
3/4 FL: 318.95
PT STA:63+38.53, 46.50'LT FL: 318.88
Δ=90°00'00"
R=25.000
L=39.270

CURB RETURN (18)
PC STA:63+62.53, 46.50'LT FL: 318.88
1/4 FL: 318.42
1/2 FL: 318.12
3/4 FL: 317.90
PT STA:63+87.53, 21.50'LT FL: 317.43
Δ=90°00'00"
R=25.000
L=39.270

CURB RETURN (5)
PC STA:25+64.62, 21.50'RT FL: 373.95
1/4 FL: 373.56
1/2 FL: 373.16
3/4 FL: 372.96
PT STA:25+89.62, 46.50'RT FL: 372.66
Δ=90°00'00"
R=25.000
L=39.270

CURB RETURN (6)
PC STA:26+25.62, 46.50'RT FL: 372.76
1/4 FL: 372.89
1/2 FL: 373.03
3/4 FL: 373.16
PT STA:26+50.62, 21.50'RT FL: 373.30
Δ=90°00'00"
R=25.000
L=39.270

CURB RETURN (7)
PRC STA:32+20.39, 21.50'LT FL: 360.39
1/4 FL: 359.46
1/2 FL: 359.18
3/4 FL: 358.72
PT STA:32+45.35, 46.51'LT FL: 357.78
Δ=90°00'29"
R=25.000
L=39.273

CURB RETURN (8)
PC STA:32+73.30, 46.44'LT FL: 357.80
1/4 FL: 357.90
1/2 FL: 357.81
3/4 FL: 357.61
PT STA:32+98.26, 21.50'LT FL: 357.27
Δ=89°49'58"
R=25.000
L=39.197

CURB RETURN (9)
PC STA:47+69.56, 21.50'RT FL: 330.84
1/4 FL: 330.29
1/2 FL: 330.06
3/4 FL: 329.76
PT STA:47+94.56, 46.50'RT FL: 329.27
Δ=90°00'00"
R=25.000
L=39.270

CURB RETURN (10)
PC STA:48+18.56, 46.50'RT FL: 329.16
1/4 FL: 329.14
1/2 FL: 329.12
3/4 FL: 329.10
PT STA:48+43.56, 21.50'RT FL: 329.07
Δ=90°00'00"
R=25.000
L=39.270

CURB RETURN (11)
PC STA:51+43.21, 21.50'LT FL: 326.13
1/4 FL: 326.39
1/2 FL: 326.65
3/4 FL: 326.91
PT STA:51+83.20, 62.59'LT FL: 327.16
Δ=91°33'42"
R=40.000
L=63.922

CURB RETURN (12)
PC STA:51+90.20, 21.50'RT FL: 326.29
1/4 FL: 326.05
1/2 FL: 325.86
3/4 FL: 325.65
PT STA:52+15.59, 46.30'RT FL: 325.41
Δ=90°00'00"
R=25.000
L=39.270

CURB RETURN (13)
PC STA:52+18.85, 58.19'LT FL: 326.84
1/4 FL: 326.82
1/2 FL: 326.80
3/4 FL: 326.78
PT STA:52+57.33, 21.50'LT FL: 326.76
Δ=88°26'18"
R=38.000
L=58.655

CURB RETURN (14)
PC STA:52+43.68, 56.57'RT FL: 325.30
1/4 FL: 325.61
1/2 FL: 325.91
3/4 FL: 326.36
PT STA:52+78.20, 21.50'RT FL: 326.93
Δ=90°00'01"
R=35.000
L=54.978

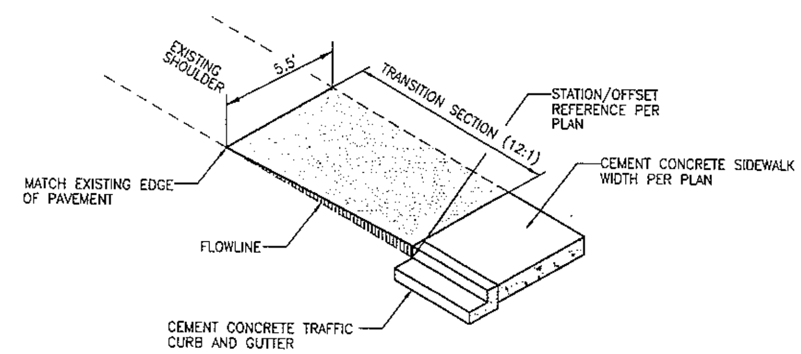
CURB RETURN (15)
PC STA:61+17.22, 21.50'RT FL: 322.22
1/4 FL: 321.71
1/2 FL: 321.48
3/4 FL: 321.17
PT STA:61+42.22, 46.50'RT FL: 320.66
Δ=90°00'00"
R=25.000
L=39.270

CURB RETURN (16)
PC STA:61+66.22, 46.50'RT FL: 320.66
1/4 FL: 320.77
1/2 FL: 320.88
3/4 FL: 321.00
PT STA:61+91.22, 21.50'RT FL: 321.11
Δ=90°00'00"
R=25.000
L=39.270

SIDEWALK RAMP SCHEDULE

	STATION	SIDEWALK RAMP TYPE	REMARKS
A	STA 12+35.63, 39.05'LT	PERPENDICULAR A RAMP	PER WSDOT STD PLAN F-40.15-01
B	STA 12+94.39, 39.67'LT	PERPENDICULAR A RAMP	PER WSDOT STD PLAN F-40.15-01
C	STA 12+36.54, 21.90'RT	FLARED PARALLEL RAMP	PER DETAIL THIS SHEET
D	STA 12+94.39, 21.50'RT	FLARED PARALLEL RAMP	PER DETAIL THIS SHEET
E	PER PLAN	ASPHALT CONCRETE RAMP	PER DETAIL THIS SHEET
F	STA 21+03.28, 45.38'LT	PERPENDICULAR A RAMP	PER WSDOT STD PLAN F-40.15-01
G	STA 21+55.93, 43.00'LT	PARALLEL A RAMP	PER WSDOT STD PLAN F-40.12-01
H	STA 25+82.44, 28.89'RT	FLARED PARALLEL RAMP	PER DETAIL THIS SHEET
I	STA 26+32.94, 28.82'RT	FLARED PARALLEL RAMP	PER DETAIL THIS SHEET
J	STA 26+32.94, 21.50'LT	PERPENDICULAR A RAMP	PER WSDOT STD PLAN F-40.15-01
K	PER PLAN	ASPHALT CONCRETE RAMP	PER DETAIL THIS SHEET
L	PER PLAN	ASPHALT CONCRETE RAMP	PER DETAIL THIS SHEET
M	STA 32+39.50, 27.36'LT	PARALLEL A RAMP	PER WSDOT STD PLAN F-40.12-01
N	STA 32+79.14, 27.36'LT	PARALLEL A RAMP	PER WSDOT STD PLAN F-40.12-01
O	STA 47+88.31, 28.77'RT	PARALLEL A RAMP	PER WSDOT STD PLAN F-40.12-01
P	PER PLAN	ASPHALT CONCRETE RAMP	PER DETAIL THIS SHEET
Q	PER PLAN	ASPHALT CONCRETE RAMP	PER DETAIL THIS SHEET
R	STA 48+30.96, 28.88'RT	PARALLEL A RAMP	PER WSDOT STD PLAN F-40.12-01
S	STA 51+71.23, 21.50'RT	PARALLEL A RAMP	PER WSDOT STD PLAN F-40.12-01
T	STA 51+71.23, 33.15'LT	FLARED PARALLEL RAMP	PER DETAIL THIS SHEET
U	STA 52+08.49, 28.73'RT	PARALLEL A RAMP	PER WSDOT STD PLAN F-40.12-01
V	PER PLAN	ASPHALT CONCRETE RAMP	PER DETAIL THIS SHEET
W	STA 52+30.56, 32.09'LT	PARALLEL A RAMP	PER WSDOT STD PLAN F-40.12-01
X	STA 52+58.60, 21.50'LT	FLARED PARALLEL RAMP	PER DETAIL THIS SHEET
Y	STA 52+58.66, 27.62'RT	FLARED PARALLEL RAMP	PER DETAIL THIS SHEET
Z	PER PLAN	ASPHALT CONCRETE RAMP	PER DETAIL THIS SHEET
AA	PER PLAN	ASPHALT CONCRETE RAMP	PER DETAIL THIS SHEET
BB	PER PLAN	ASPHALT CONCRETE RAMP	PER DETAIL THIS SHEET
CC	PER PLAN	ASPHALT CONCRETE RAMP	PER DETAIL THIS SHEET
DD	STA 63+31.20, 28.82'LT	PARALLEL A RAMP	PER WSDOT STD PLAN F-40.12-01
EE	PER PLAN	ASPHALT CONCRETE RAMP	PER DETAIL THIS SHEET
FF	PER PLAN	ASPHALT CONCRETE RAMP	PER DETAIL THIS SHEET
GG	STA 63+69.84, 28.82'LT	PARALLEL A RAMP	PER WSDOT STD PLAN F-40.12-01
HH	PER PLAN	ASPHALT CONCRETE RAMP	PER DETAIL THIS SHEET
II	STA	PARALLEL A RAMP	PER WSDOT STD PLAN F-40.12-01
JJ	PER PLAN	ASPHALT CONCRETE RAMP	PER DETAIL THIS SHEET
KK	PER PLAN	ASPHALT CONCRETE RAMP	PER DETAIL THIS SHEET
LL	STA	PARALLEL A RAMP	PER WSDOT STD PLAN F-40.12-01

NOTES:
1. ALL STATION AND OFFSET REFERENCES ARE TO CENTER OF RAMP AT FACE OF CURB UNLESS NOTED OTHERWISE.



ASPHALT CONCRETE RAMP

NOT TO SCALE

FLARED PARALLEL RAMP

NOT TO SCALE

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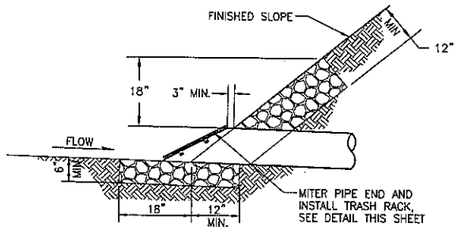
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION: WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE: ROADWAY DETAILS

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE:
SHEET X OF X	
DRAWING NO.: 3.20	

Plotted: Oct 17, 2011 - 4:08pm Chadlnef K:\project\31400\31423\Dwg\3.20.dwg Layout Name: 3.20



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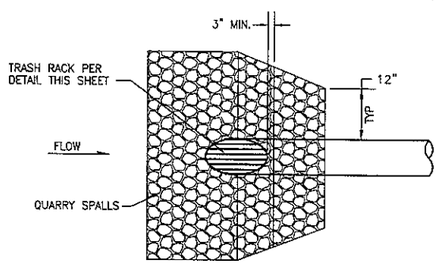
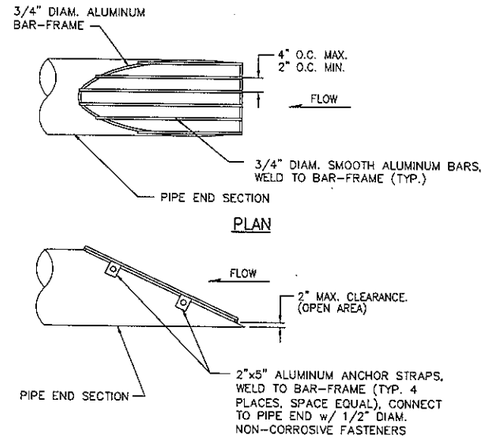


PLAN

PIPE INLET PROTECTION

NOT TO SCALE

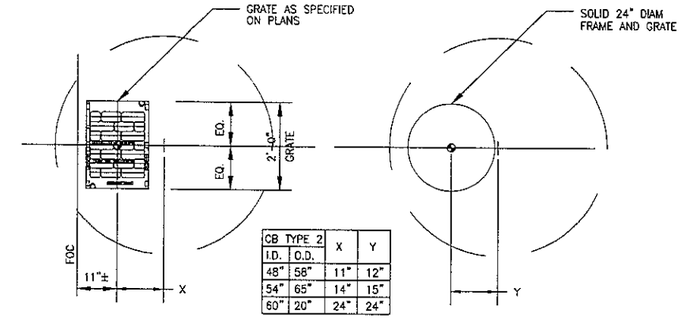


NOTE:

1. ALL METAL FASTENERS SHALL BE GALVANIZED IN MANUFACTURE OR APPROVED EQUAL TREATMENT FOR CORROSION PROTECTION.

TRASH RACK

NOT TO SCALE



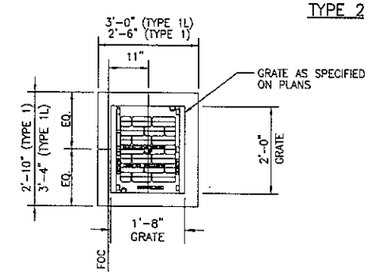
CB TYPE 2		X	Y
I.D.	O.D.		
48"	56"	11"	12"
54"	65"	14"	15"
60"	20"	24"	24"

TYPE 2

KEY

⊕ CENTER OF GRATE

+ CENTER OF STRUCTURE



TYPE 1 & TYPE 1L

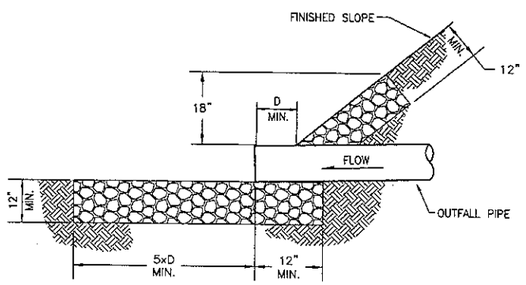
NOTES:

1. CENTER OF GRATE = CENTER OF STRUCTURE FOR TYPE 1 AND TYPE 1L STRUCTURES ONLY.
2. SPECIFIED STATION AND OFFSET REFERENCE CENTER OF STRUCTURE FOR ALL DRAINAGE FACILITIES UNLESS OTHERWISE NOTED ON PLANS.
3. ALL GRATES SHALL BE LOCKING VANED GRATES UNLESS NOTED OTHERWISE ON PLANS.

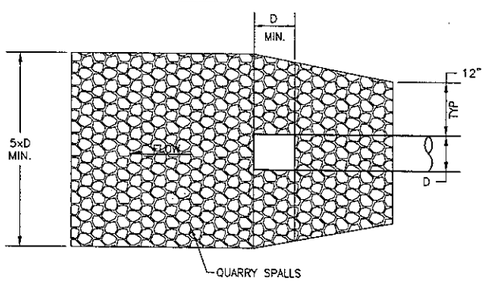
TYPICAL STRUCTURE PLACEMENT

NOT TO SCALE

EXHIBIT 3
PAGE 33 OF 114



SECTION



PLAN

PIPE OUTFALL PROTECTION

NOT TO SCALE

CALL BEFORE YOU DIG
1-800-424-5555

otak
Incorporated
10230 NE Points Dr #400
Kirkland, Washington 98033
Phone: (425) 822-4446
FAX: (425) 827-9577
WEB: WWW.OTAK.COM

PRELIMINARY DRAFT

P.E. STAMP BOX

STATE OF WASHINGTON — NICO H. VANDERHOOST — 30792 — REGISTERED PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY	CK
1				
2				
3				
4				
5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION

WOODINVILLE-DUVALL ROAD WIDENING PROJECT

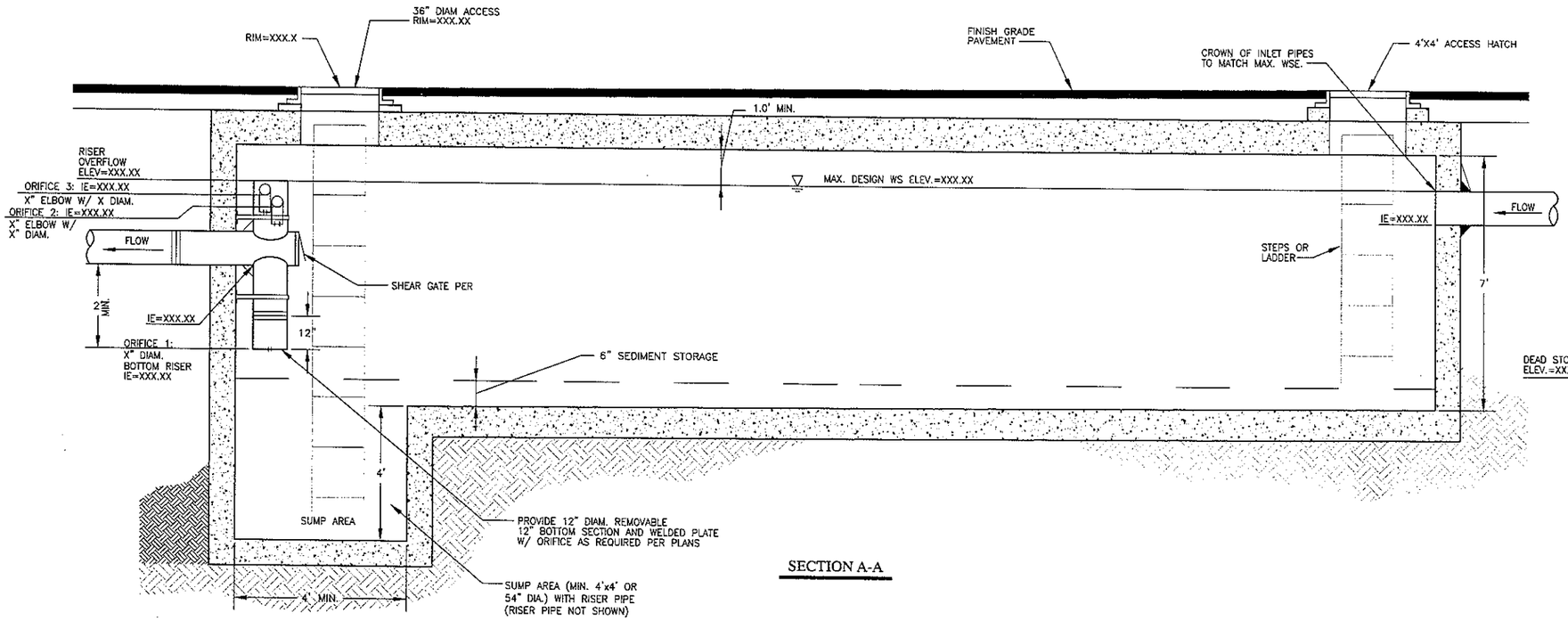
SHEET TITLE:

DRAINAGE DETAILS

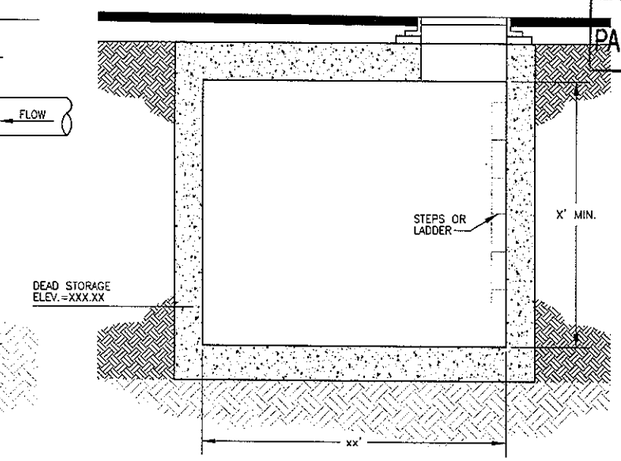
DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: FW10-XXXX
DRAWN BY:	SCALE: AS SHOWN
SHEET X OF X	
DRAWING NO.: 3.21	

Plotted: Oct 17, 2011 - 4:59pm CheriFeF K:\project\31400\31423\Dwg\3.21.dwg Layout Name: 3.21

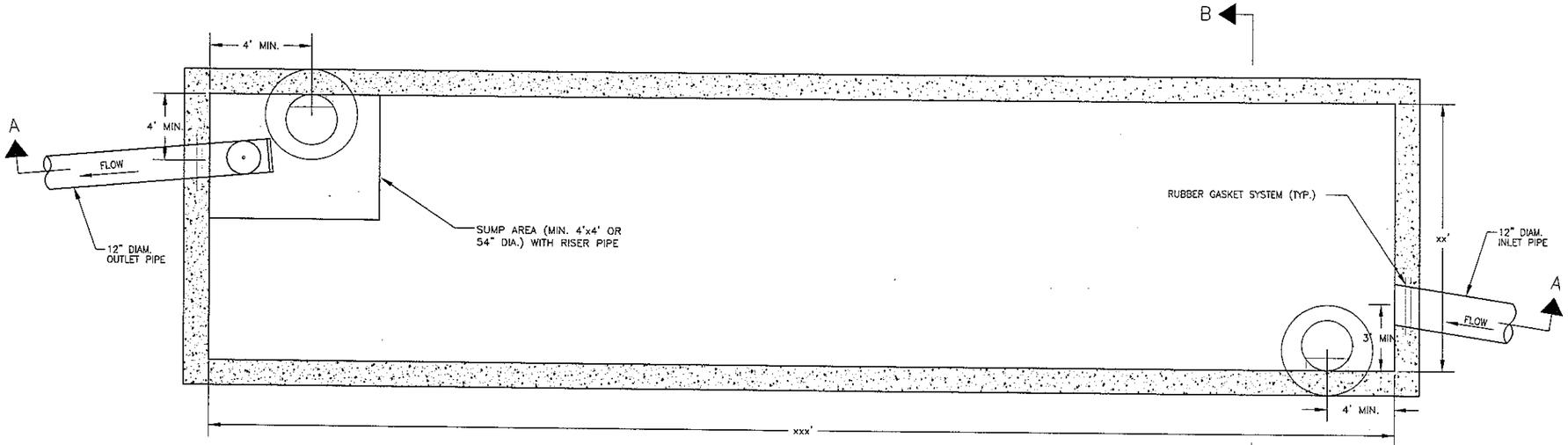
EXHIBIT 3
PAGE 34 OF 114



SECTION A-A



SECTION B-B



PLAN VIEW

NOTES:

1. INTENT IS FOR VAULT TO BE CONSTRUCTED OF PRECAST COMPONENTS. VAULT SHALL BE DESIGNED FOR HS-20 TRAFFIC LOADINGS, MINIMUM. HYDROSTATIC PRESSURE SHALL BE TAKEN INTO ACCOUNT FOR VAULT DESIGN. VAULT SHALL BE DESIGNED AND STAMPED BY A REGISTERED STRUCTURAL ENGINEER. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL.
2. PROVIDE WATER STOP AT ALL CAST-IN-PLACE CONSTRUCTION JOINTS. PRE-CAST VAULTS SHALL HAVE APPROVED RUBBER GASKET SYSTEM.
3. PROVIDE LADDER RUNGS IMMEDIATELY ADJACENT TO ALL INLET/OUTLET PIPES.
4. ALL INLETS MUST DISCHARGE UPSTREAM OF UPPER BAFFLE.

DETENTION VAULT #1 DETAILS

CALL BEFORE YOU DIG
1-800-424-5555

SCALE: 1" =2'

otak Incorporated
10230 NE Points Dr #400
Kirkland, Washington 98033
Phone: (425) 822-4446
FAX: (425) 827-9577
WEB: WWW.OTAK.COM

PRELIMINARY DRAFT

P.E. STAMP BOX

NO.	REVISION	DATE	BY	CK
1				
2				
3				
4				
5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

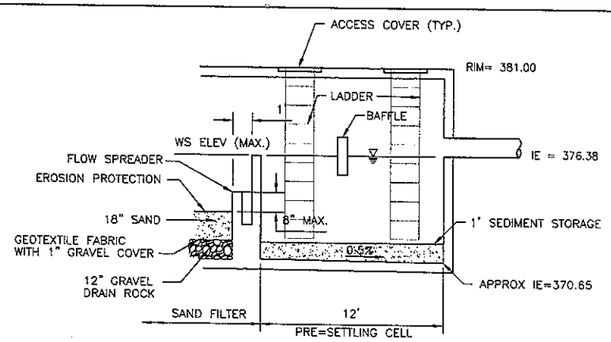
PROJECT INFORMATION
WOODINVILLE--DUVALL
ROAD WIDENING PROJECT

SHEET TITLE:
DRAINAGE
DETAILS

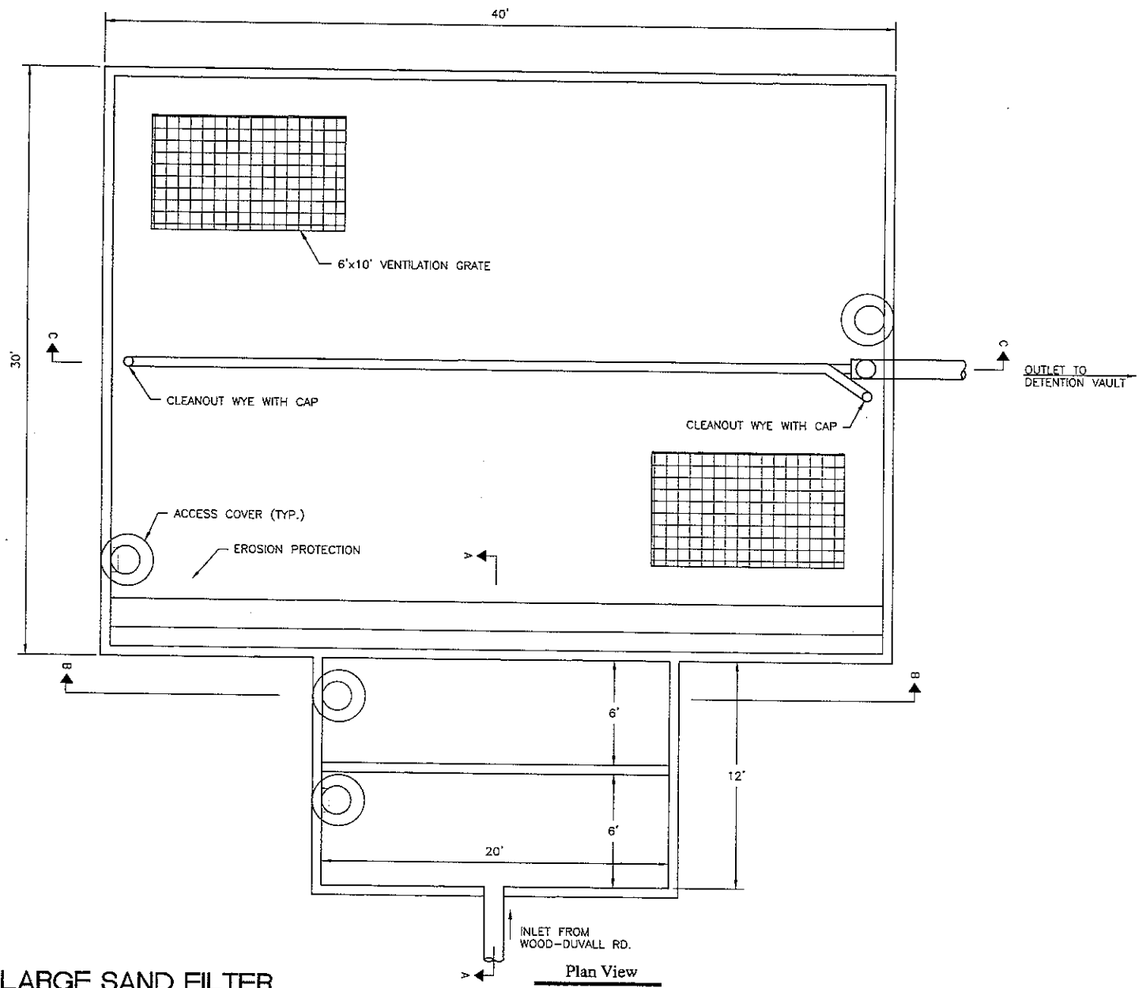
DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE: AS SHOWN
SHEET X OF X	
DRAWING NO.: 3.22	

Plotted: Oct 17, 2011 - 4:59pm CharlieF K:\project\31400\31423\dwg\3.21.dwg Layout Name: 3.22

EXHIBIT 3
PAGE 35 OF 114



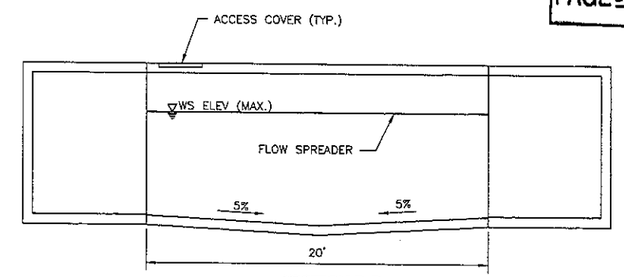
SECTION A-A



Plan View

LARGE SAND FILTER

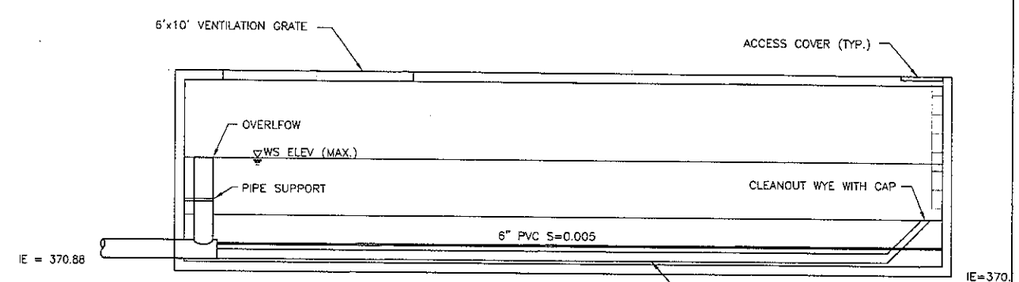
SCALE: 1" =4'



SECTION B-B

NOTES:

1. VAULT SHALL BE DESIGNED AND STAMPED BY A REGISTERED STRUCTURAL ENGINEER. VAULT SHALL BE DESIGNED FOR HS-20 TRAFFIC LOADINGS, MINIMUM. HYDROSTATIC PRESSURE SHALL BE TAKEN INTO ACCOUNT FOR VAULT DESIGN. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL.
2. PROVIDE WATER STOP AT ALL CAST-IN-PLACE CONSTRUCTION JOINTS. PRE-CAST VAULTS SHALL HAVE APPROVED RUBBER GASKET SYSTEM.
3. PROVIDE LADDER RUNGS IMMEDIATELY ADJACENT TO ALL INLET/OUTLET PIPES.
4. ALL INLETS MUST DISCHARGE UPSTREAM OF UPPER BAFFLE.



SECTION B-B

CALL BEFORE YOU DIG
1-800-424-5555

otak Incorporated
10230 NE Points Dr #400
Kirkland, Washington 98033
Phone: (425) 822-4446
FAX: (425) 827-9577
WEB: WWW.OTAK.COM

PRELIMINARY DRAFT

P.E. STAMP BOX

NO.	REVISION	DATE	BY	CK
1				
2				
3				
4				
5				

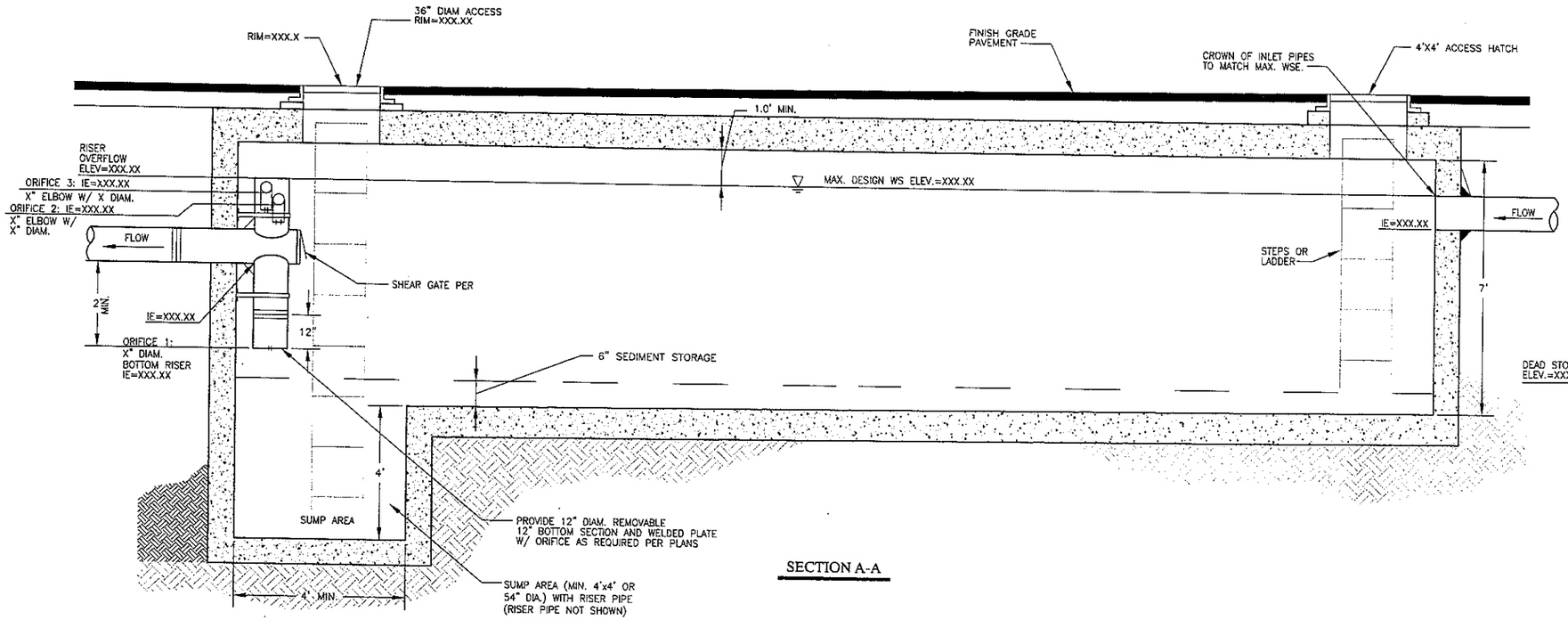
CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
DRAINAGE DETAILS

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE: AS SHOWN
SHEET X OF X	
DRAWING NO.: 3.23	

Plotted: Oct 17, 2011 - 4:59pm CharlieF K:\project\31400\31423\Dwg\3.21.dwg Layout Name: 3.23



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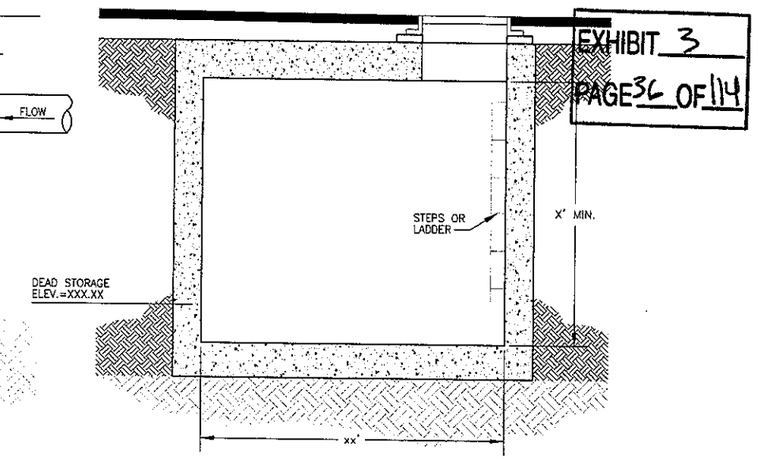
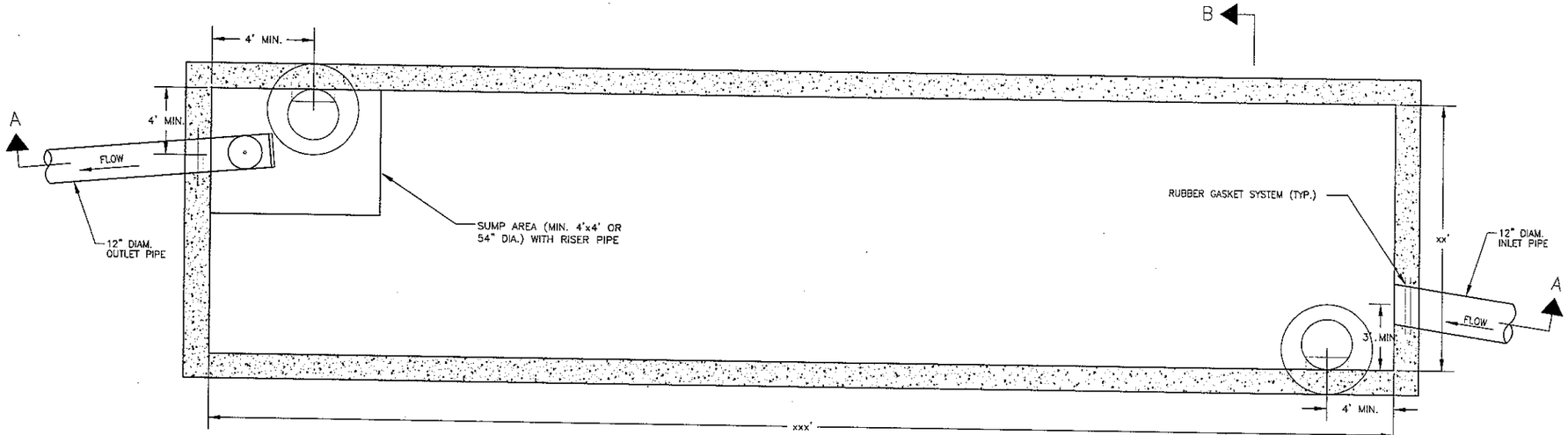


SECTION B-B

EXHIBIT 3
PAGE 36 OF 114



PLAN VIEW

NOTES:

1. INTENT IS FOR VAULT TO BE CONSTRUCTED OF PRECAST COMPONENTS. VAULT SHALL BE DESIGNED FOR HS-20 TRAFFIC LOADINGS, MINIMUM. HYDROSTATIC PRESSURE SHALL BE TAKEN INTO ACCOUNT FOR VAULT DESIGN. VAULT SHALL BE DESIGNED AND STAMPED BY A REGISTERED STRUCTURAL ENGINEER. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL.
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3. PROVIDE LADDER RUNGS IMMEDIATELY ADJACENT TO ALL INLET/OUTLET PIPES.
4. ALL INLETS MUST DISCHARGE UPSTREAM OF UPPER BAFFLE.

DETENTION VAULT #2 DETAILS

CALL BEFORE YOU DIG
1-800-424-5555

SCALE: 1" =2'

otak
Incorporated
10230 NE Points Dr #400
Kirkland, Washington 98033
Phone: (425) 822-4446
FAX: (425) 827-9577
WEB: WWW.OTAK.COM

PRELIMINARY DRAFT

P.E. STAMP BOX

STATE OF WASHINGTON
JACO M. VANDERHOOP
30792
REGISTERED
PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY	CK
1				
2				
3				
4				
5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION

WOODINVILLE-DUVALL
ROAD WIDENING PROJECT

SHEET TITLE:

DRAINAGE
DETAILS

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE: AS SHOWN
SHEET X OF X	
DRAWING NO.: 3.22	

Plotted: Oct 17, 2011 - 4:59pm CharlieF K:\project\31400\31423\Dwg\321.dwg Layout Name: 3.24

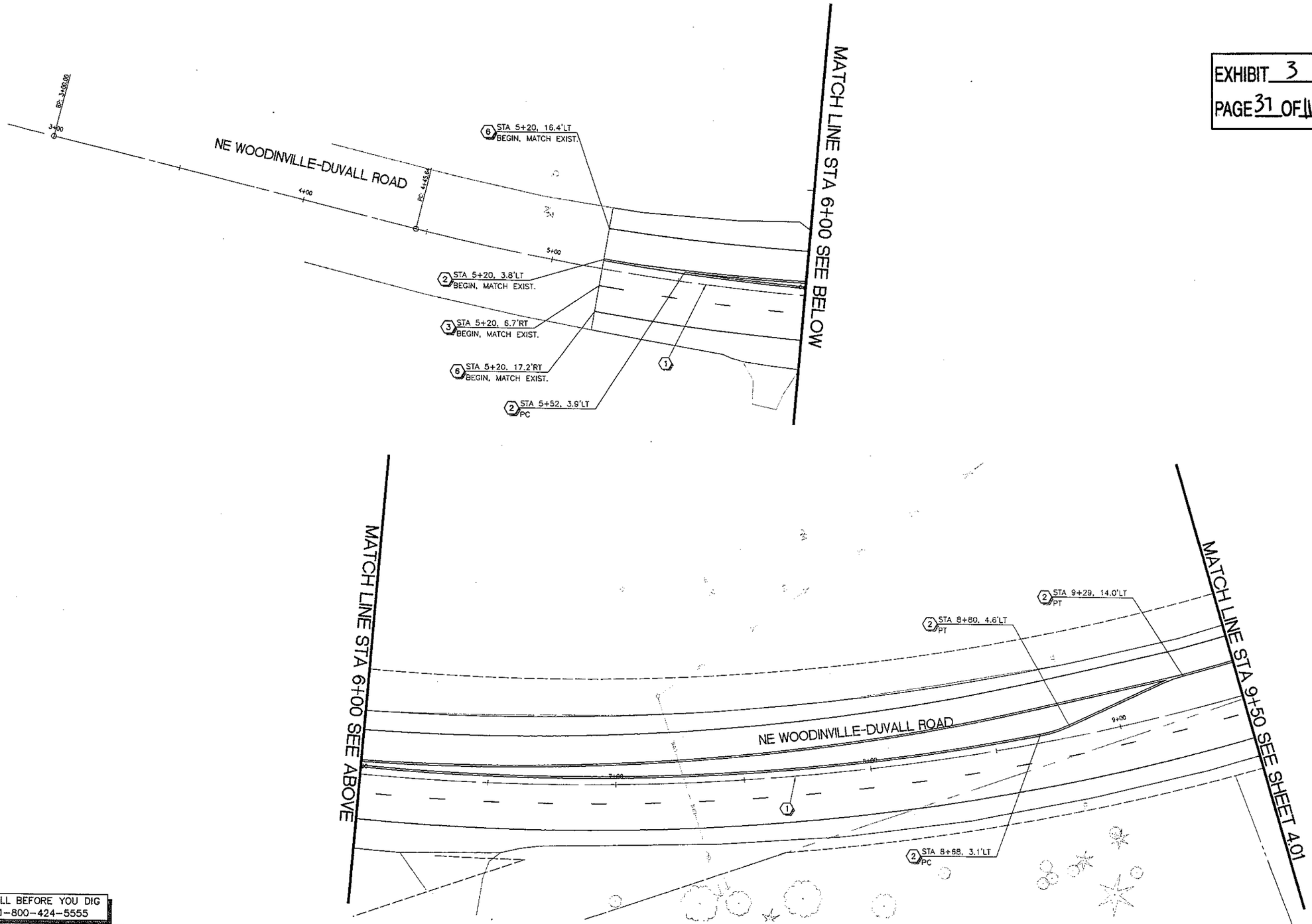

EXHIBIT 3
PAGE 31 OF 114

STRIPING NOTES

1. CONSTRUCTION CENTERLINE, SEE SHEETS 1.02 AND 1.03 FOR DETAILS.
2. DOUBLE CENTER LINE SUPPLEMENTED WITH RPM'S PER WSDOT STD PLAN M-20.10-02 AND M-20.40-02.
3. LANE LINE SUPPLEMENTED WITH RPM'S PER WSDOT STD PLAN M-20.10-02 AND M-20.30-02.
4. WIDE LANE SUPPLEMENTED WITH RPM'S LINE PER WSDOT STD PLAN M-20.10-02 AND M-20.40-02.
5. TWO-WAY LEFT-TURN CENTER LINE SUPPLEMENTED WITH RPM'S PER WSDOT STD PLAN M-20.10-02 AND M-20.40-02.
6. PROFILED PLASTIC WIDE LANE LINE PER WSDOT STD PLAN M-20.20-01.
7. PLASTIC STOP LINE PER WSDOT STD PLAN M-24.60-03.
8. PLASTIC CROSSWALK LINE PER WSDOT STD PLAN M-15.10-01.
9. PLASTIC TRAFFIC ARROW TYPE 2SL (LEFT) PER WSDOT STD PLAN M-24.40-01.
10. PLASTIC BICYCLE LANE SYMBOL PER CITY OF WOODINVILLE STD PLAN 350E.
11. PLASTIC TRAFFIC ARROW TYPE 2 5R (RIGHT) PER WSDOT STD PLAN M-24.10-01.
12. PLASTIC TRAFFIC ARROW TYPE 3 5L (LEFT) PER WSDOT STD PLAN M-24.10-01.
13. INSTALL TYPE 2YY RMPS 20' O.C. ALONG MEDIANS.

SIGNING NOTES

21. NOT USED.
22. RELOCATE EXISTING SIGN TO NEW LOCATION AS SHOWN.
23. INSTALL SPEED LIMIT 35 SIGN, R2-1 (30"X36").
24. INSTALL STOP SIGN, R1-1 (36"X36").
25. INSTALL STOP AHEAD SIGN, W3-1 (36"X36").
26. INSTALL SCHOOL ADVANCE SIGN, S1-1, (36"x36").
27. INSTALL SIGNAL SYMBOL AHEAD SIGN, W3-3 (36"x36").
28. INSTALL BIKE (SYMBOL) LANE ENDS SIGN, R3-17C (24"x30").
29. INSTALL BIKE (SYMBOL) LANE AHEAD SIGN, R3-17B (24"x30").
30. INSTALL LEFT LANE ENDS AHEAD, W9-1L (36"x36").
31. INSTALL LANE ENDS MERGE RIGHT, W9-2R (36"x36").
32. INSTALL NO PEDESTRIAN CROSSING, R9-3 (12"x18"), USE CROSSWALK, R9-3B 4R (18"x12").
33. INSTALL STREET SIGN, D3-101 (VARIABLEx8").
34. INSTALL BEGIN TWO-WAY LEFT-TURN LANE, R3.9B (24"x36").
35. INSTALL END TWO-WAY LEFT-TURN LANE, R3.9B (24"x36").
36. INSTALL NO OUTLET SIGN, W14-2P (36"X12").
37. RELOCATE EXISTING MAILBOXES TO NEW MULTIPLE MAILBOX STRUCTURE PER WOODINVILLE STD PLAN 385.
38. RELOCATE EXISTING MAILBOXES TO NEW MAILBOX STRUCTURE FOR ONE OR TWO BOXES PER WOODINVILLE STD PLAN 386.

GENERAL NOTES

1. SIGNS SHALL BE INSTALLED PER WSDOT STD PLANS G-20.10-00 AND G-22.10-01.
2. ALL SIGNS SHALL BE INSTALLED TO FACE ONCOMING TRAFFIC (AS SHOWN) UNLESS NOTED OTHERWISE.
3. SEE WASHINGTON STATE "SIGN FABRICATION MANUAL" FOR CODE REFERENCES AND STANDARD SIGN LAYOUT DETAILS.
4. CONSTRUCTION CENTERLINE AND RIGHT-OF-WAY CENTERLINE ARE NOT THE SAME. STATION AND OFFSET REFERENCES ARE TO CONSTRUCTION CENTERLINE.
5. STATION AND OFFSET OF BICYCLE LANE SYMBOL ARE TO THE CENTER OF BIKE RIDER SYMBOL.
6. STATION AND OFFSET OF TRAFFIC ARROWS ARE TO THE CENTER OF THE SYMBOL.

20' 0' 20' 40'
SCALE IN FEET

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Kirkland, Washington 98033
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FAX: (425) 827-9577
WEB: WWW.OTAK.COM

PRELIMINARY DRAFT

P.E. STAMP BOX

STATE OF WASHINGTON
NICO M. VANDERHOEVE
30792
REGISTERED PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY	CK
1				
2				
3				
4				
5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
SIGNING AND STRIPING PLAN

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: FW10-XXXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 4.00	

Plotted: Oct 17, 2011 - 5:00pm CharlineF K:\project\31400\31423\Dwg\4.00.dwg Layout Name: 4.00

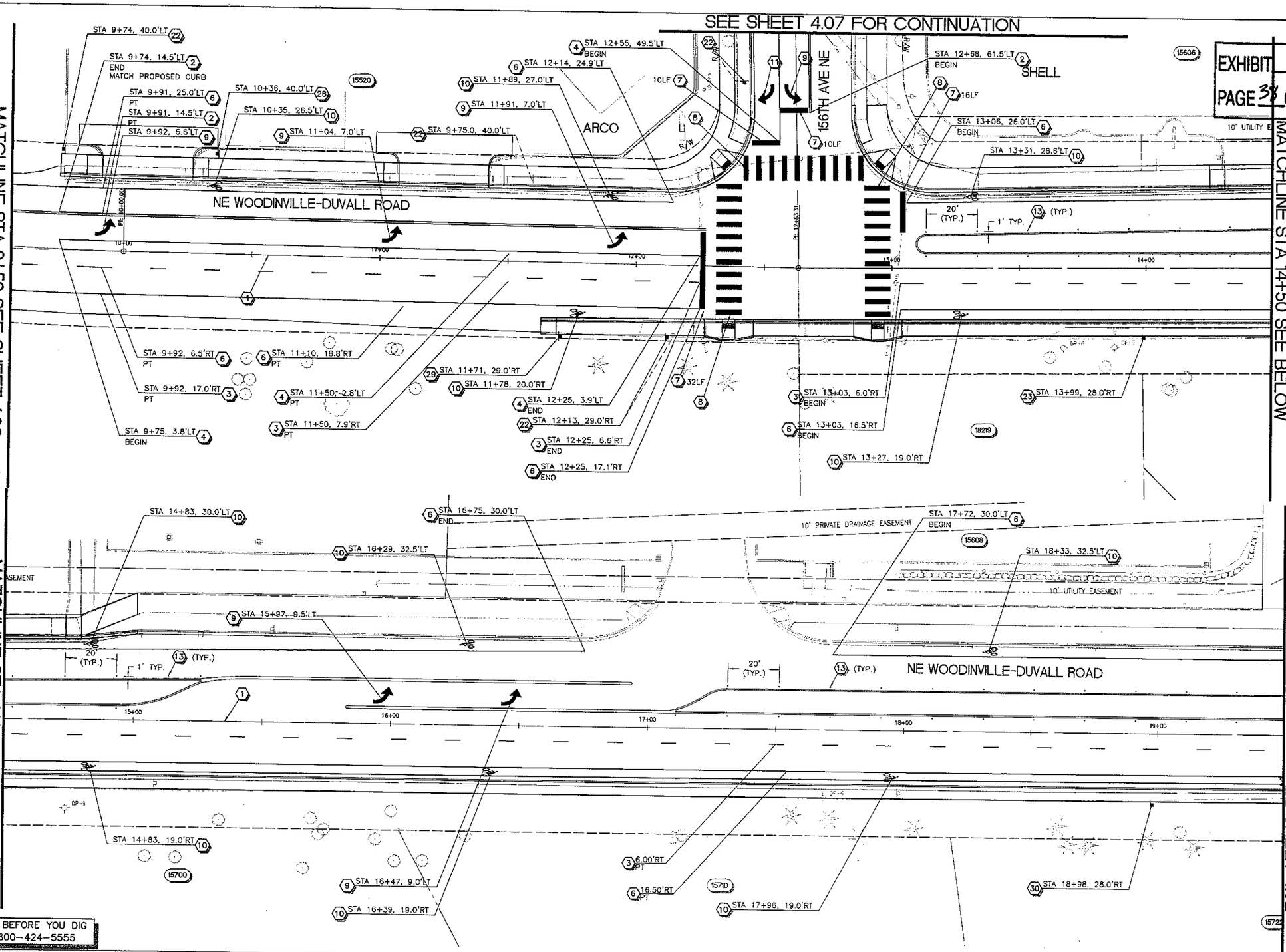

EXHIBIT 3
PAGE 38 OF 114

STRIPING NOTES

1. CONSTRUCTION CENTERLINE, SEE SHEETS 1.02 AND 1.03 FOR DETAILS.
2. DOUBLE CENTER LINE SUPPLEMENTED WITH RPM'S PER WSDOT STD PLAN M-20.10-02 AND M-20.40-02.
3. LANE LINE SUPPLEMENTED WITH RPM'S PER WSDOT STD PLAN M-20.10-02 AND M-20.30-02.
4. WIDE LANE SUPPLEMENTED WITH RPM'S LINE PER WSDOT STD PLAN M-20.10-02 AND M-20.40-02.
5. TWO-WAY LEFT-TURN CENTER LINE SUPPLEMENTED WITH RPM'S PER WSDOT STD PLAN M-20.10-02 AND M-20.40-02.
6. PROFILED PLASTIC WIDE LANE LINE PER WSDOT STD PLAN M-20.20-01.
7. PLASTIC STOP LINE PER WSDOT STD PLAN M-24.60-03.
8. PLASTIC CROSSWALK LINE PER WSDOT STD PLAN M-15.10-01.
9. PLASTIC TRAFFIC ARROW TYPE 2SL (LEFT) PER WSDOT STD PLAN M-24.40-01.
10. PLASTIC BICYCLE LANE SYMBOL PER CITY OF WOODINVILLE STD PLAN 350E.
11. PLASTIC TRAFFIC ARROW TYPE 2 5R (RIGHT) PER WSDOT STD PLAN M-24.10-01.
12. PLASTIC TRAFFIC ARROW TYPE 3 5L (LEFT) PER WSDOT STD PLAN M-24.10-01.
13. INSTALL TYPE 2YY RMPS 20' O.C. ALONG MEDIANS.

SIGNING NOTES

21. NOT USED.
22. RELOCATE EXISTING SIGN TO NEW LOCATION AS SHOWN.
23. INSTALL SPEED LIMIT 35 SIGN, R2-1 (30"X36").
24. INSTALL STOP SIGN, R1-1 (36"X36").
25. INSTALL STOP AHEAD SIGN, W3-1 (36"X36").
26. INSTALL SCHOOL ADVANCE SIGN, S1-1, (36"x36").
27. INSTALL SIGNAL SYMBOL AHEAD SIGN, W3-3 (36"x36").
28. INSTALL BIKE (SYMBOL) LANE ENDS SIGN, R3-17C (24"x30").
29. INSTALL BIKE (SYMBOL) LANE AHEAD SIGN, R3-17B (24"x30").
30. INSTALL LEFT LANE ENDS AHEAD, W9-1L (36"x36").
31. INSTALL LANE ENDS MERGE RIGHT, W9-2R (36"x36").
32. INSTALL NO PEDESTRIAN CROSSING, R9-3 (12"x18"), USE CROSSWALK, R9-3B 4R (18"x12").
33. INSTALL STREET SIGN, D3-101 (VARIABLEx8").
34. INSTALL BEGIN TWO-WAY LEFT-TURN LANE, R3.9B (24"x36").
35. INSTALL END TWO-WAY LEFT-TURN LANE, R3.9B (24"x36").
36. INSTALL NO OUTLET SIGN, W14-2P (36"X12").
37. RELOCATE EXISTING MAILBOXES TO NEW MULTIPLE MAILBOX STRUCTURE PER WOODINVILLE STD PLAN 385.
38. RELOCATE EXISTING MAILBOXES TO NEW MAILBOX STRUCTURE FOR ONE OR TWO BOXES PER WOODINVILLE STD PLAN 386.

GENERAL NOTES

1. SIGNS SHALL BE INSTALLED PER WSDOT STD PLANS G-20.10-00 AND G-22.10-01.
2. ALL SIGNS SHALL BE INSTALLED TO FACE ONCOMING TRAFFIC (AS SHOWN) UNLESS NOTED OTHERWISE.
3. SEE WASHINGTON STATE "SIGN FABRICATION MANUAL" FOR CODE REFERENCES AND STANDARD SIGN LAYOUT DETAILS.
4. CONSTRUCTION CENTERLINE AND RIGHT-OF-WAY CENTERLINE ARE NOT THE SAME. STATION AND OFFSET REFERENCES ARE TO CONSTRUCTION CENTERLINE.
5. STATION AND OFFSET OF BICYCLE LANE SYMBOL ARE TO THE CENTER OF BIKE RIDER SYMBOL.
6. STATION AND OFFSET OF TRAFFIC ARROWS ARE TO THE CENTER OF THE SYMBOL.

20' 0' 20' 40'
SCALE IN FEET

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Kirkland, Washington 98033
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FAX: (425) 827-9577
WEB: WWW.OTAK.COM

PRELIMINARY DRAFT

P.E. STAMP BOX

NICO M. VANDERHORST
STATE OF WASHINGTON
40762
REGISTERED
PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY	CK
1				
2				
3				
4				
5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE-DUVALL
ROAD WIDENING PROJECT

SHEET TITLE:
SIGNING AND
STRIPING PLAN

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 4.01	

Plotted: Oct 17, 2011 - 5:00pm CharlieF K:\project\31400\31423\Dwg\4.00.dwg Layout Name: 4.01

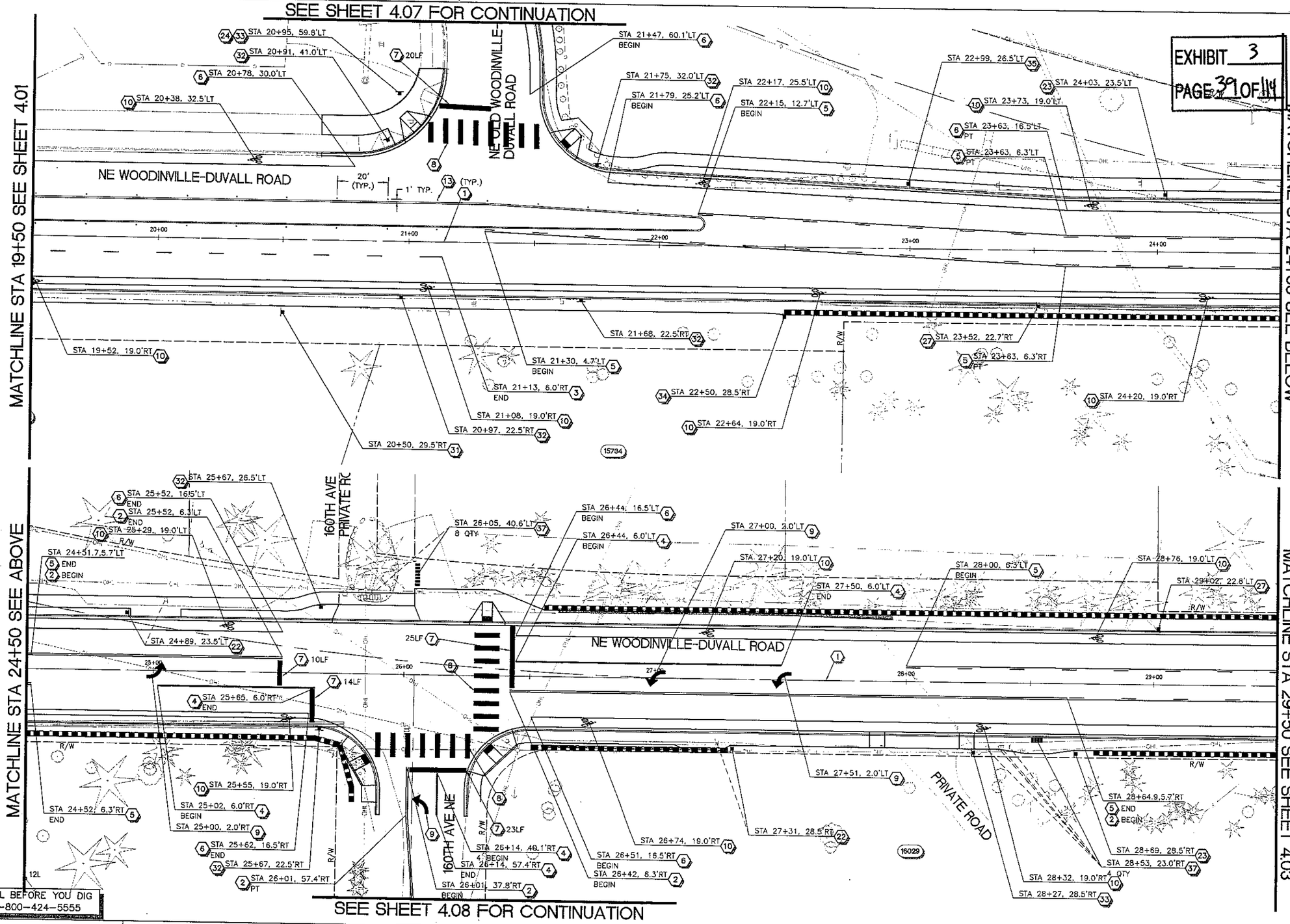

EXHIBIT 3
PAGE 39 OF 114

STRIPING NOTES

1. CONSTRUCTION CENTERLINE, SEE SHEETS 1.02 AND 1.03 FOR DETAILS.
2. DOUBLE CENTER LINE SUPPLEMENTED WITH RPM'S PER WSDOT STD PLAN M-20.10-02 AND M-20.40-02.
3. LANE LINE SUPPLEMENTED WITH RPM'S PER WSDOT STD PLAN M-20.10-02 AND M-20.30-02.
4. WIDE LANE SUPPLEMENTED WITH RPM'S LINE PER WSDOT STD PLAN M-20.10-02 AND M-20.40-02.
5. TWO-WAY LEFT-TURN CENTER LINE SUPPLEMENTED WITH RPM'S PER WSDOT STD PLAN M-20.10-02 AND M-20.40-02.
6. PROFILED PLASTIC WIDE LANE LINE PER WSDOT STD PLAN M-20.20-01.
7. PLASTIC STOP LINE PER WSDOT STD PLAN M-24.60-03.
8. PLASTIC CROSSWALK LINE PER WSDOT STD PLAN M-15.10-01.
9. PLASTIC TRAFFIC ARROW TYPE 2SL (LEFT) PER WSDOT STD PLAN M-24.40-01.
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11. PLASTIC TRAFFIC ARROW TYPE 2 5R (RIGHT) PER WSDOT STD PLAN M-24.10-01.
12. PLASTIC TRAFFIC ARROW TYPE 3 5L (LEFT) PER WSDOT STD PLAN M-24.10-01.
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SIGNING NOTES

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22. RELOCATE EXISTING SIGN TO NEW LOCATION AS SHOWN.
23. INSTALL SPEED LIMIT 35 SIGN, R2-1 (30"X36").
24. INSTALL STOP SIGN, R1-1 (36"X36").
25. INSTALL STOP AHEAD SIGN, W3-1 (36"X36").
26. INSTALL SCHOOL ADVANCE SIGN, S1-1, (36"x36").
27. INSTALL SIGNAL SYMBOL AHEAD SIGN, W3-3 (36"x36").
28. INSTALL BIKE (SYMBOL) LANE ENDS SIGN, R3-17C (24"x30").
29. INSTALL BIKE (SYMBOL) LANE AHEAD SIGN, R3-17B (24"x30").
30. INSTALL LEFT LANE ENDS AHEAD, W9-1L (36"x36").
31. INSTALL LANE ENDS MERGE RIGHT, W9-2R (36"x36").
32. INSTALL NO PEDESTRIAN CROSSING, R9-3 (12"x18"), USE CROSSWALK, R9-3B 4R (18"x12").
33. INSTALL STREET SIGN, D3-101 (VARIABLEx8").
34. INSTALL BEGIN TWO-WAY LEFT-TURN LANE, R3.9B (24"x36").
35. INSTALL END TWO-WAY LEFT-TURN LANE, R3.9B (24"x36").
36. INSTALL NO OUTLET SIGN, W14-2P (36"X12").
37. RELOCATE EXISTING MAILBOXES TO NEW MULTIPLE MAILBOX STRUCTURE PER WOODINVILLE STD PLAN 385.
38. RELOCATE EXISTING MAILBOXES TO NEW MAILBOX STRUCTURE FOR ONE OR TWO BOXES PER WOODINVILLE STD PLAN 386.

GENERAL NOTES

1. SIGNS SHALL BE INSTALLED PER WSDOT STD PLANS G-20.10-00 AND G-22.10-01.
2. ALL SIGNS SHALL BE INSTALLED TO FACE ONCOMING TRAFFIC (AS SHOWN) UNLESS NOTED OTHERWISE.
3. SEE WASHINGTON STATE "SIGN FABRICATION MANUAL" FOR CODE REFERENCES AND STANDARD SIGN LAYOUT DETAILS.
4. CONSTRUCTION CENTERLINE AND RIGHT-OF-WAY CENTERLINE ARE NOT THE SAME. STATION AND OFFSET REFERENCES ARE TO CONSTRUCTION CENTERLINE.
5. STATION AND OFFSET OF BICYCLE LANE SYMBOL ARE TO THE CENTER OF BIKE RIDER SYMBOL.
6. STATION AND OFFSET OF TRAFFIC ARROWS ARE TO THE CENTER OF THE SYMBOL.

SCALE 20' 0' 20' 40' IN FEET

otak Incorporated
10230 NE Points Dr #400
Kirkland, Washington 98033
Phone: (425) 822-4446
FAX: (425) 827-8577
WEB: WWW.OTAK.COM

PRELIMINARY DRAFT

P.E. STAMP BOX

NICO M. VANDERHORST, STATE OF WASHINGTON, 30792, REGISTERED PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY	CK
1				
2				
3				
4				
5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
SIGNING AND STRIPING PLAN

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 4.02	

F_UST
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lved
ILK
3N100
3N190
3Y220
3R380
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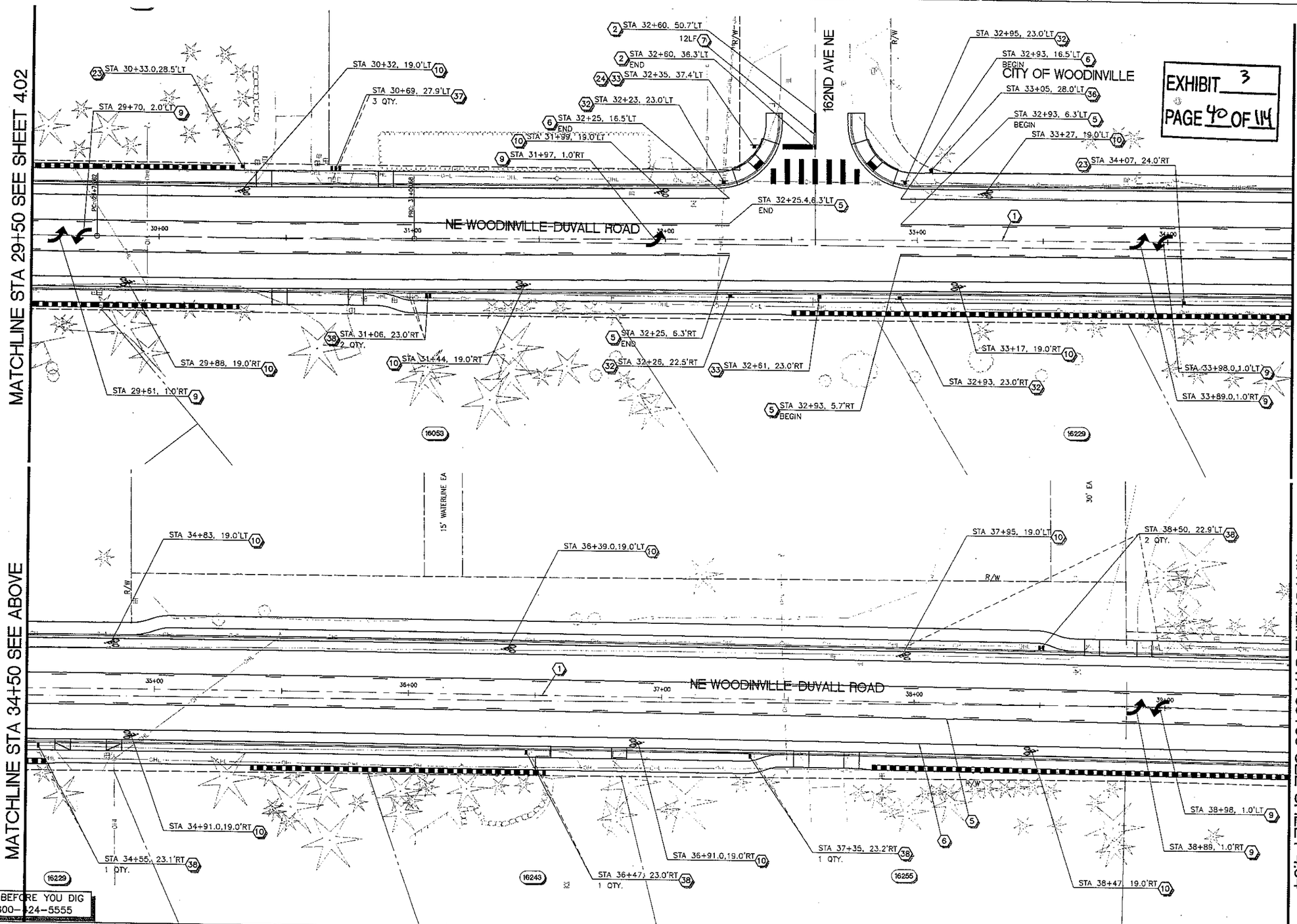
Plotted: Oct 17, 2011 - 8:50pm Chartlief K:\project\31400\31423\Dwg\4.02.dwg Layout Name: 4.02



STRIPING NOTES

1. CONSTRUCTION CENTERLINE, SEE SHEETS 1.02 AND 1.03 FOR DETAILS.
2. DOUBLE CENTER LINE SUPPLEMENTED WITH RPM'S PER WSDOT STD PLAN M-20.10-02 AND M-20.40-02.
3. LANE LINE SUPPLEMENTED WITH RPM'S PER WSDOT STD PLAN M-20.10-02 AND M-20.30-02.
4. WIDE LANE SUPPLEMENTED WITH RPM'S LINE PER WSDOT STD PLAN M-20.10-02 AND M-20.40-02.
5. TWO-WAY LEFT-TURN CENTER LINE SUPPLEMENTED WITH RPM'S PER WSDOT STD PLAN M-20.10-02 AND M-20.40-02.
6. PROFILED PLASTIC WIDE LANE LINE PER WSDOT STD PLAN M-20.20-01.
7. PLASTIC STOP LINE PER WSDOT STD PLAN M-24.60-03.
8. PLASTIC CROSSWALK LINE PER WSDOT STD PLAN M-15.10-01.
9. PLASTIC TRAFFIC ARROW TYPE 2SL (LEFT) PER WSDOT STD PLAN M-24.40-01.
10. PLASTIC BICYCLE LANE SYMBOL PER CITY OF WOODINVILLE STD PLAN 350E.
11. PLASTIC TRAFFIC ARROW TYPE 2 5R (RIGHT) PER WSDOT STD PLAN M-24.10-01.
12. PLASTIC TRAFFIC ARROW TYPE 3 5L (LEFT) PER WSDOT STD PLAN M-24.10-01.
13. INSTALL TYPE 2YY RMPS 20' O.C. ALONG MEDIANS.

SIGNING NOTES

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22. RELOCATE EXISTING SIGN TO NEW LOCATION AS SHOWN.
23. INSTALL SPEED LIMIT 35 SIGN, R2-1 (30"X36").
24. INSTALL STOP SIGN, R1-1 (36"X36").
25. INSTALL STOP AHEAD SIGN, W3-1 (36"X36").
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P.E. STAMP BOX

NO.	REVISION	DATE	BY	CK
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5				

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WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION

WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:

SIGNING AND STRIPING PLAN

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 4.03	

XREF LIST
Ltscale 20
Resolved
TTLBLK
C423N100
S423B090
S423Y220
C423R380
C423R500
C423N031
NMVSEAL
WASSEAL
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SEE SHEET 4.08 FOR CONTINUATION

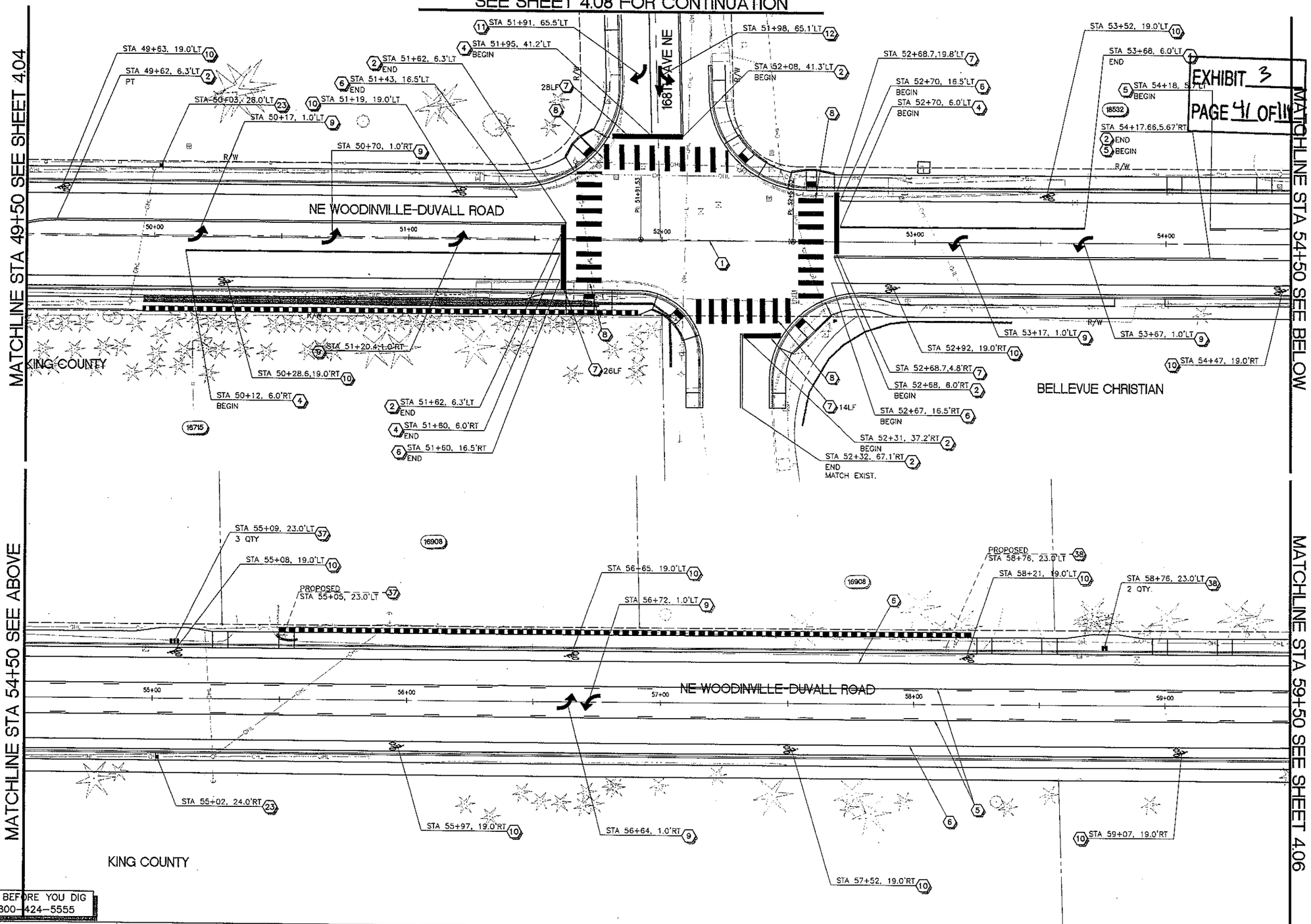

EXHIBIT 3
PAGE 41 OF 111

STRIPING NOTES

1. CONSTRUCTION CENTERLINE, SEE SHEETS 1.02 AND 1.03 FOR DETAILS.
2. DOUBLE CENTER LINE SUPPLEMENTED WITH RPM'S PER WSDOT STD PLAN M-20.10-02 AND M-20.40-02.
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12. PLASTIC TRAFFIC ARROW TYPE 3 5L (LEFT) PER WSDOT STD PLAN M-24.10-01.
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20' 0' 20' 40'
SCALE IN FEET

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P.E. STAMP BOX

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CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
SIGNING AND STRIPING PLAN

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 4.05	

XREF LIST
Ltscale 20
Resolved
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S423B190
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C423R380
C423R500
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WASSEAL
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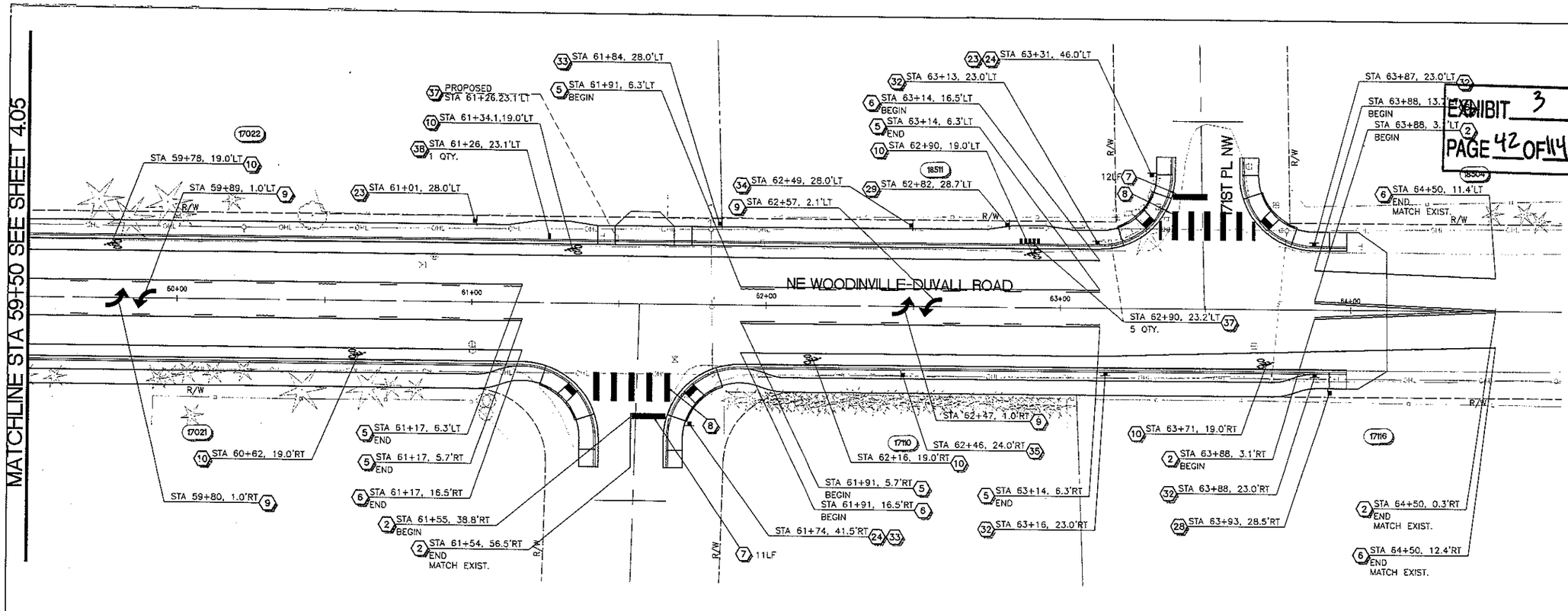

EXHIBIT 3
PAGE 42 OF 114

STRIPING NOTES

1. CONSTRUCTION CENTERLINE, SEE SHEETS 1.02 AND 1.03 FOR DETAILS.
2. DOUBLE CENTER LINE SUPPLEMENTED WITH RPM'S PER WSDOT STD PLAN M-20.10-02 AND M-20.40-02.
3. LANE LINE SUPPLEMENTED WITH RPM'S PER WSDOT STD PLAN M-20.10-02 AND M-20.30-02.
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9. PLASTIC TRAFFIC ARROW TYPE 2SL (LEFT) PER WSDOT STD PLAN M-24.40-01.
10. PLASTIC BICYCLE LANE SYMBOL PER CITY OF WOODINVILLE STD PLAN 350E.
11. PLASTIC TRAFFIC ARROW TYPE 2 5R (RIGHT) PER WSDOT STD PLAN M-24.10-01.
12. PLASTIC TRAFFIC ARROW TYPE 3 5L (LEFT) PER WSDOT STD PLAN M-24.10-01.
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20' 0' 20' 40'
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PRELIMINARY DRAFT

P.E. STAMP BOX

STATE OF WASHINGTON 30792 REGISTERED PROFESSIONAL ENGINEER
ALCO N. VANDERHORST

NO.	REVISION	DATE	BY	CK
1				
2				
3				
4				
5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
SIGNING AND STRIPING PLAN

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 4.06	

Plotted: Oct 17, 2011 = 8:05pm EtestlineF X:\projects\31460\31423\Dwg\4.06.dwg Layout Name: 4.06

XREF LIST
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S423Y220
C423R380
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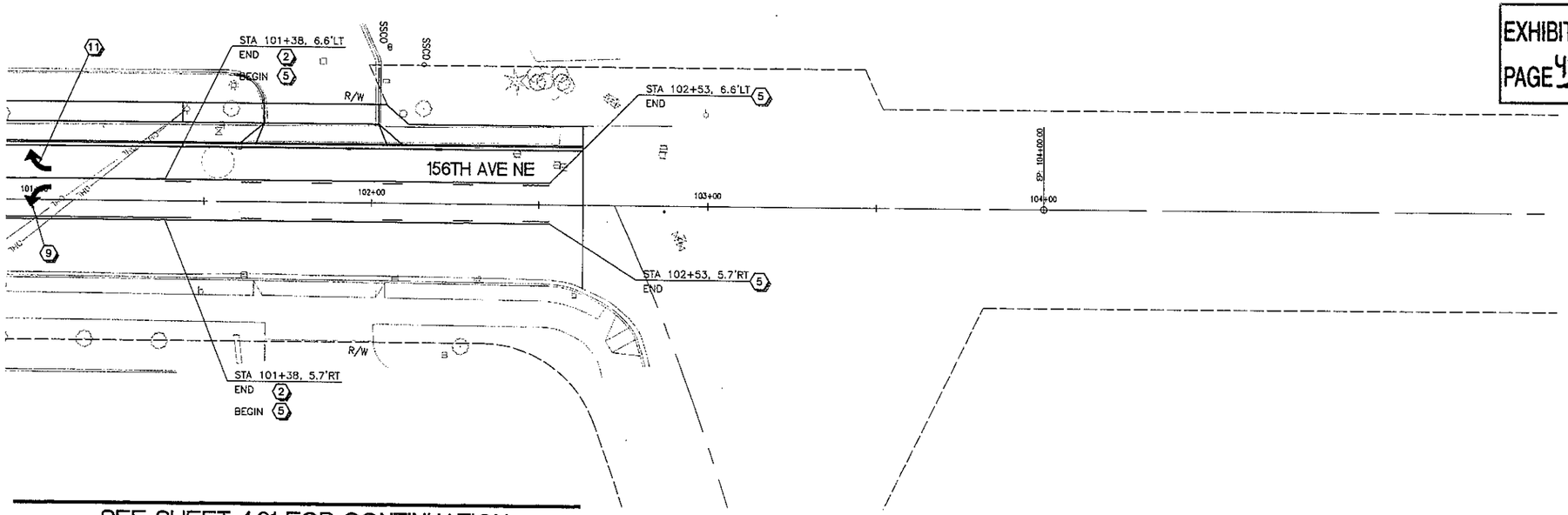
SJWSEAL
WASSEAL
NMVSEAL

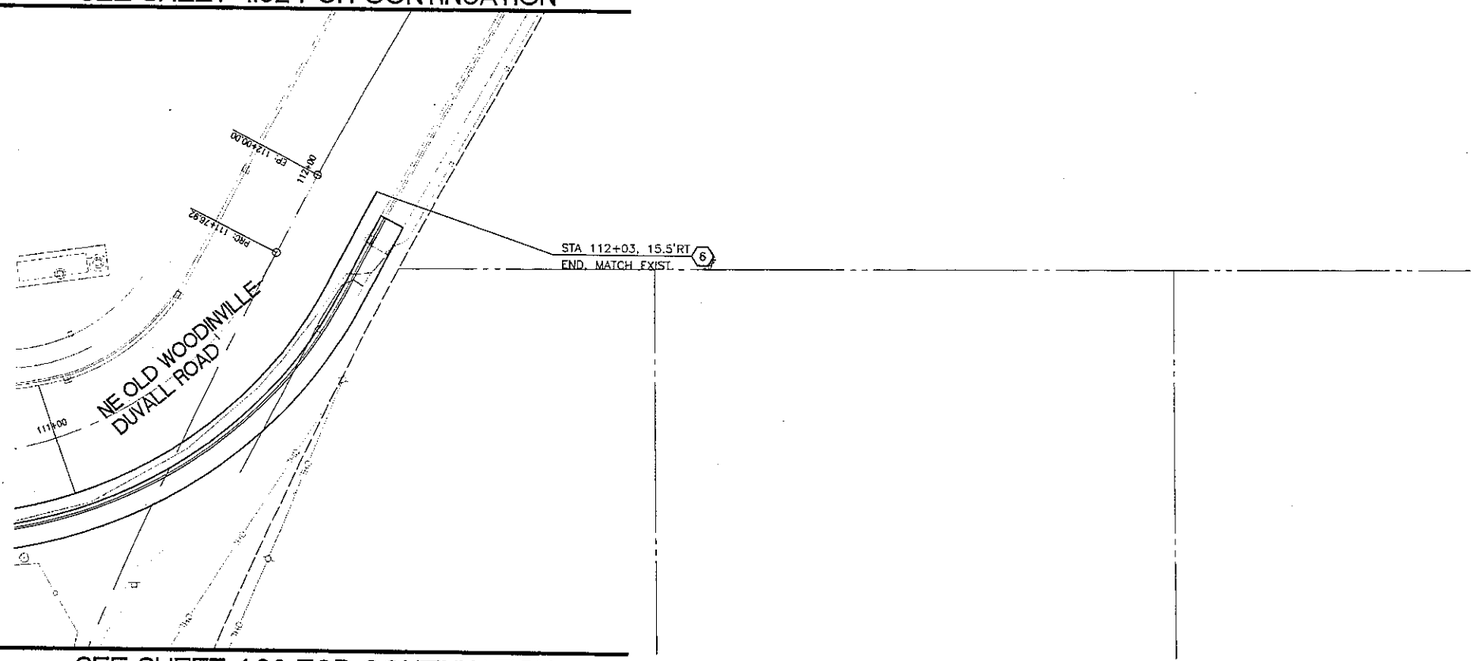
SEE SHEET 4.01 FOR CONTINUATION

EXHIBIT 3
PAGE 43 OF 114



SEE SHEET 4.01 FOR CONTINUATION

SEE SHEET 4.02 FOR CONTINUATION



SEE SHEET 4.02 FOR CONTINUATION

STRIPING NOTES

1. CONSTRUCTION CENTERLINE, SEE SHEETS 1.02 AND 1.03 FOR DETAILS.
2. DOUBLE CENTER LINE SUPPLEMENTED WITH RPM'S PER WSDOT STD PLAN M-20.10-02 AND M-20.40-02.
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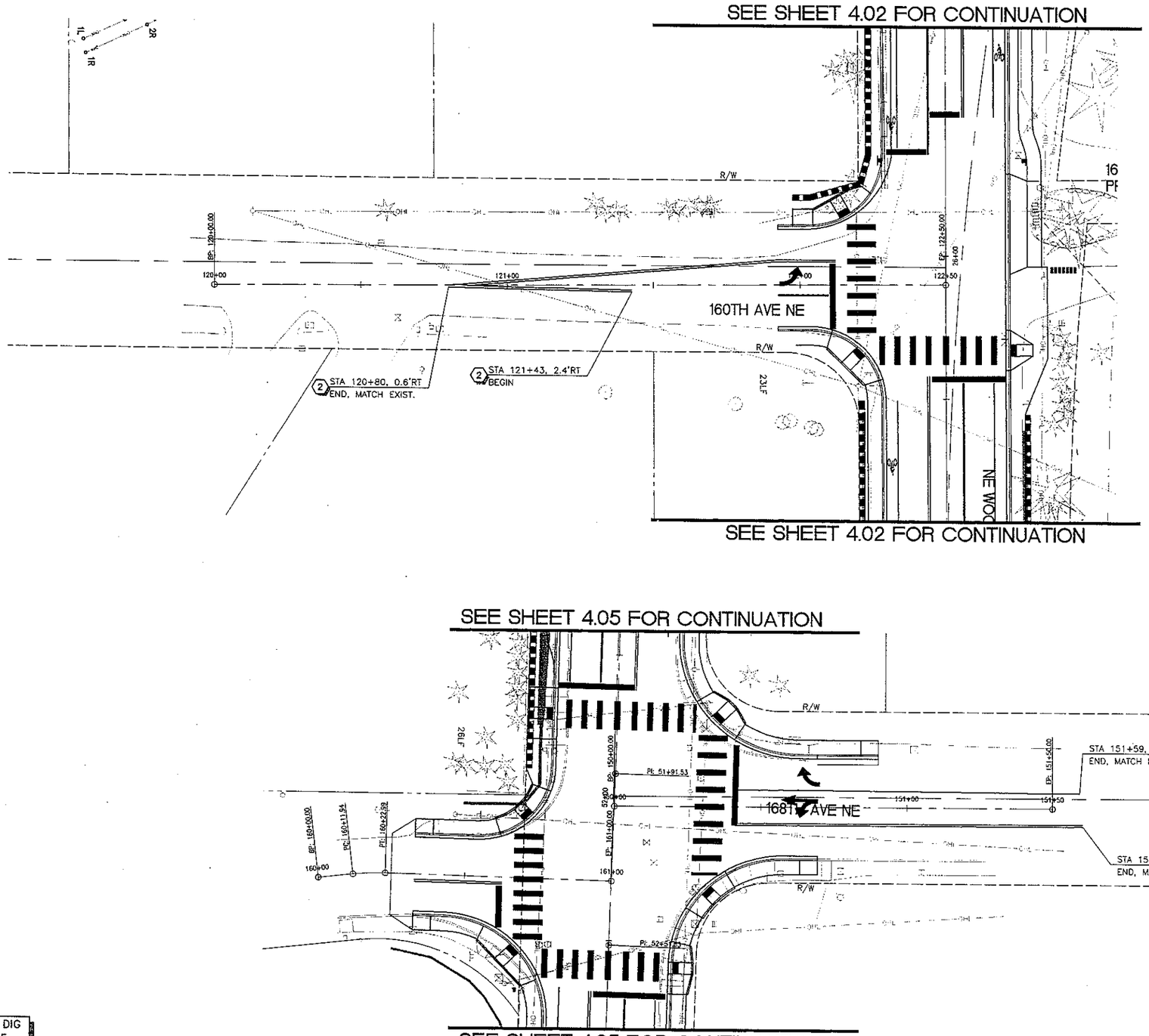
DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 4.07	

Plotted: Oct 17, 2011 - 8:01am Chartlinef K:\proj\set\31402\31423\Dwg\4.07.dwg Layout Name: 4.07

EXHIBIT 3
PAGE 44 OF 114



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3. LANE LINE SUPPLEMENTED WITH RPM'S PER WSDOT STD PLAN M-20.10-02 AND M-20.30-02.
4. WIDE LANE SUPPLEMENTED WITH RPM'S LINE PER WSDOT STD PLAN M-20.10-02 AND M-20.40-02.
5. TWO-WAY LEFT-TURN CENTER LINE SUPPLEMENTED WITH RPM'S PER WSDOT STD PLAN M-20.10-02 AND M-20.40-02.
6. PROFILED PLASTIC WIDE LANE LINE PER WSDOT STD PLAN M-20.20-01.
7. PLASTIC STOP LINE PER WSDOT STD PLAN M-24.60-03.
8. PLASTIC CROSSWALK LINE PER WSDOT STD PLAN M-15.10-01.
9. PLASTIC TRAFFIC ARROW TYPE 2SL (LEFT) PER WSDOT STD PLAN M-24.40-01.
10. PLASTIC BICYCLE LANE SYMBOL PER CITY OF WOODINVILLE STD PLAN 350E.
11. PLASTIC TRAFFIC ARROW TYPE 2 5R (RIGHT) PER WSDOT STD PLAN M-24.10-01.
12. PLASTIC TRAFFIC ARROW TYPE 3 5L (LEFT) PER WSDOT STD PLAN M-24.10-01.
13. INSTALL TYPE 2YY RMPS 20' O.C. ALONG MEDIANS.

SIGNING NOTES

21. NOT USED.
22. RELOCATE EXISTING SIGN TO NEW LOCATION AS SHOWN.
23. INSTALL SPEED LIMIT 35 SIGN, R2-1 (30"X36").
24. INSTALL STOP SIGN, R1-1 (36"X36").
25. INSTALL STOP AHEAD SIGN, W3-1 (36"X36").
26. INSTALL SCHOOL ADVANCE SIGN, S1-1, (36"x36").
27. INSTALL SIGNAL SYMBOL AHEAD SIGN, W3-3 (36"x36").
28. INSTALL BIKE (SYMBOL) LANE ENDS SIGN, R3-17C (24"x30").
29. INSTALL BIKE (SYMBOL) LANE AHEAD SIGN, R3-17B (24"x30").
30. INSTALL LEFT LANE ENDS AHEAD, W9-1L (36"x36").
31. INSTALL LANE ENDS MERGE RIGHT, W9-2R (36"x36").
32. INSTALL NO PEDESTRIAN CROSSING, R9-3 (12"x18"), USE CROSSWALK, R9-3B 4R (18"x12").
33. INSTALL STREET SIGN, D3-101 (VARIABLEx8").
34. INSTALL BEGIN TWO-WAY LEFT-TURN LANE, R3.9B (24"x36").
35. INSTALL END TWO-WAY LEFT-TURN LANE, R3.9B (24"x36").
36. INSTALL NO OUTLET SIGN, W14-2P (36"X12").
37. RELOCATE EXISTING MAILBOXES TO NEW MULTIPLE MAILBOX STRUCTURE PER WOODINVILLE STD PLAN 385.
38. RELOCATE EXISTING MAILBOXES TO NEW MAILBOX STRUCTURE FOR ONE OR TWO BOXES PER WOODINVILLE STD PLAN 386.

GENERAL NOTES

1. SIGNS SHALL BE INSTALLED PER WSDOT STD PLANS G-20.10-00 AND G-22.10-01.
2. ALL SIGNS SHALL BE INSTALLED TO FACE ONCOMING TRAFFIC (AS SHOWN) UNLESS NOTED OTHERWISE.
3. SEE WASHINGTON STATE "SIGN FABRICATION MANUAL" FOR CODE REFERENCES AND STANDARD SIGN LAYOUT DETAILS.
4. CONSTRUCTION CENTERLINE AND RIGHT-OF-WAY CENTERLINE ARE NOT THE SAME. STATION AND OFFSET REFERENCES ARE TO CONSTRUCTION CENTERLINE.
5. STATION AND OFFSET OF BICYCLE LANE SYMBOL ARE TO THE CENTER OF BIKE RIDER SYMBOL.
6. STATION AND OFFSET OF TRAFFIC ARROWS ARE TO THE CENTER OF THE SYMBOL.

20' 0' 20' 40'
SCALE IN FEET

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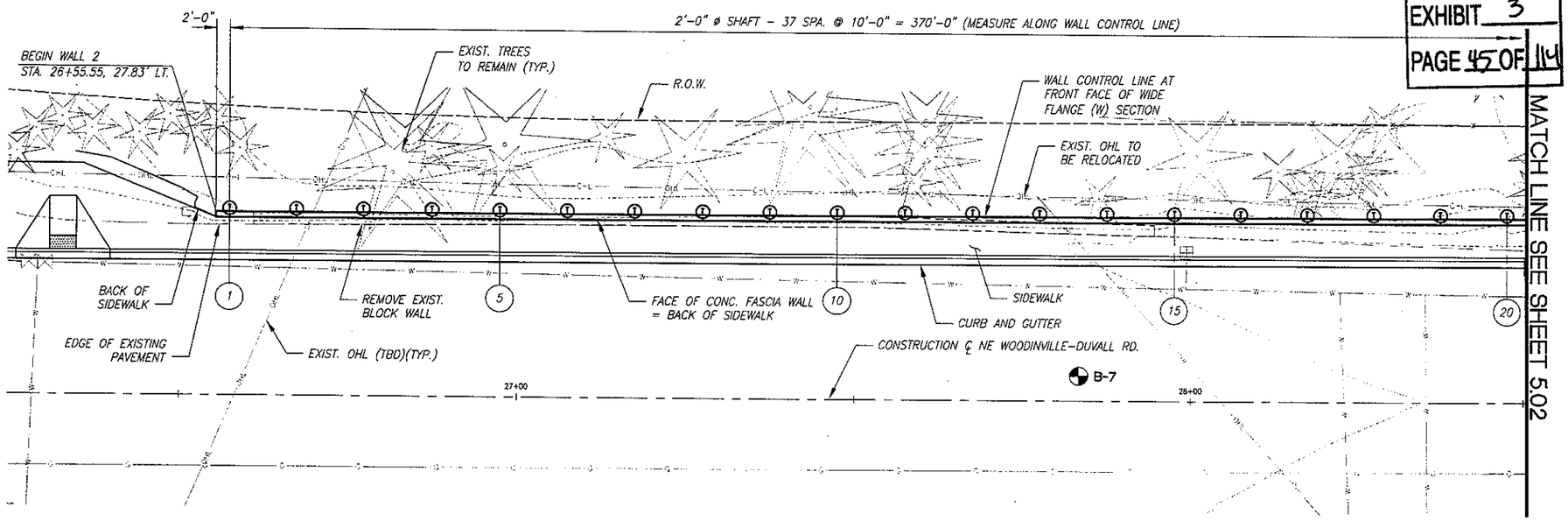
PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
SIGNING AND STRIPING PLAN

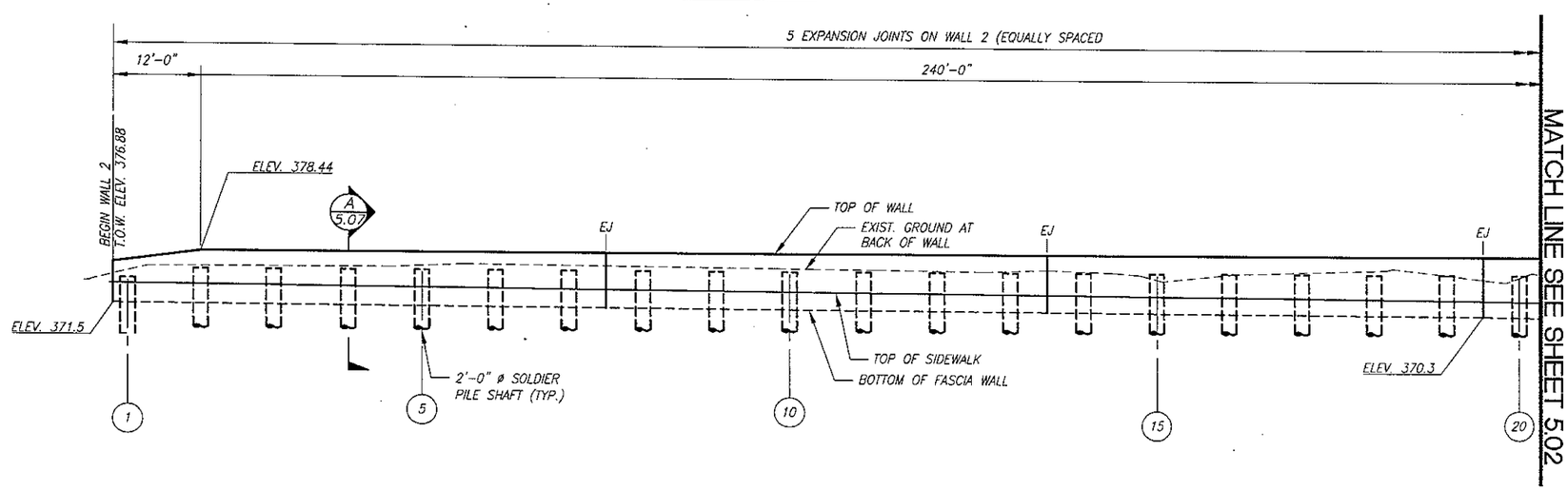
DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 4.06	

Plotted: Oct 17, 2011 - 8:01pm CheriineF K:\project\31400\31423\Dwg\4.07.dwg Layout: Normal 4.06

EXHIBIT 3
PAGE 45 OF 114



WALL 2 PARTIAL PLAN



WALL 2 PARTIAL ELEVATION

NOTES:

EJ - EXPANSION JOINT

(X) - PILE NUMBER

- BOREHOLE LOCATION

GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, DATED 2010.
2. THE SOLDIER PILE RETAINING WALL HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 5TH EDITION, DATED 2010.
3. UNLESS OTHERWISE SHOWN IN THE PLANS, THE CONCRETE COVER MEASURED FROM THE FACE OF THE CONCRETE TO THE FACE OF ANY REINFORCING STEEL SHALL BE 1½".
4. PROVIDE STRUCTURAL STEEL SHAPES AND PLATES CONFORMING TO ASTM A36 OR A992, STEEL REINFORCING BARS ACCORDING TO ASTM A615 OR A706, AND WELDED SHEAR STUD CONNECTORS ACCORDING TO ASTM A108.
5. SOLDIER PILES SHALL BE COATED PER THE SPECIFICATIONS AND TO THE LIMITS ON SHEET 5.07.
6. CONCRETE FASCIA SHALL BE CLASS 4000
7. WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.1 AND SHALL BE PERFORMED TO MINIMIZE DISTORTION. THE WELDING SEQUENCES AND PROCEDURES TO BE USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF WELDING.
8. GEOTECHNICAL BORING INFORMATION IS PRESENTED IN THE SPECIAL PROVISIONS. THE COMPLETE PROJECT GEOTECHNICAL REPORT MAY BE OBTAINED FROM THE ENGINEER.

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SCALE 10' 0' 10' 20' IN FEET

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PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
WALL 2 PARTIAL PLAN AND ELEVATION

DATE: Oct 2011	CHECKED BY: NMV
DESIGNED BY: XW	PROJECT NO.: PW10-XX
DRAWN BY: XW	SCALE: 1"=10'
SHEET X OF X	
DRAWING NO.: 5.01	

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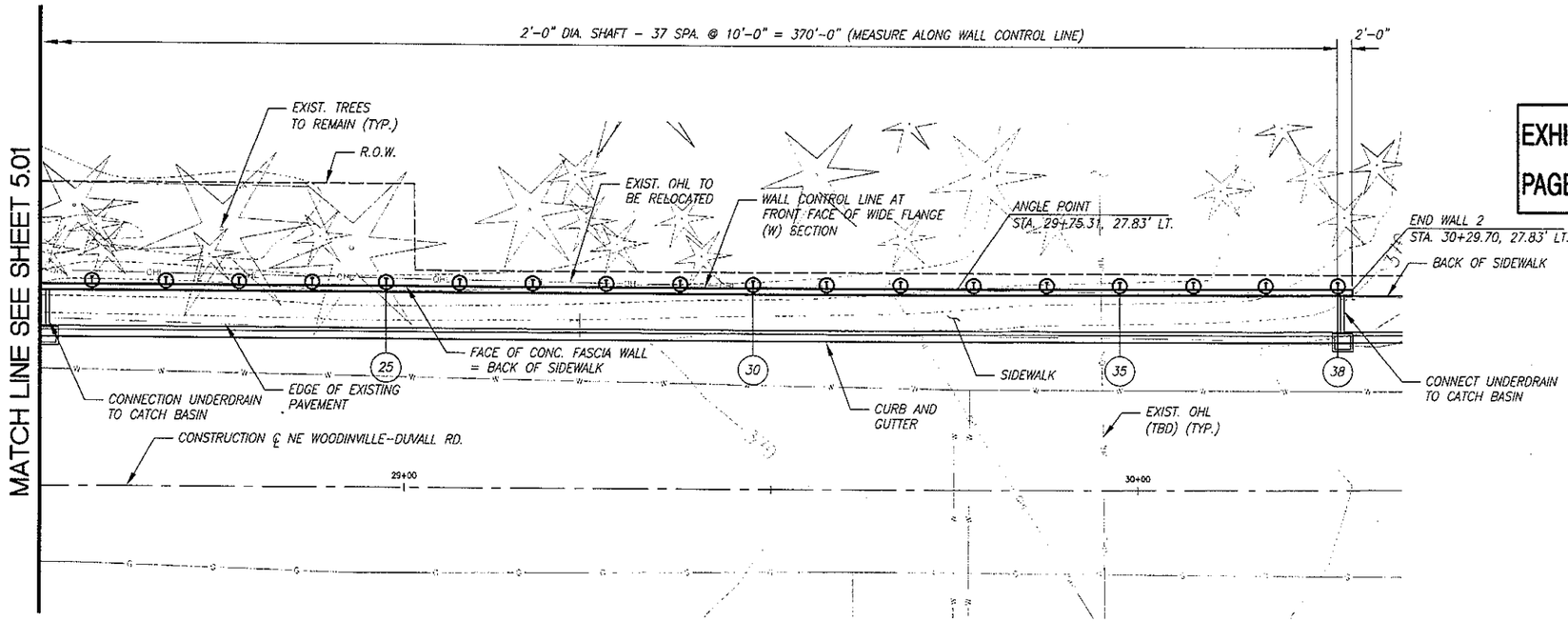
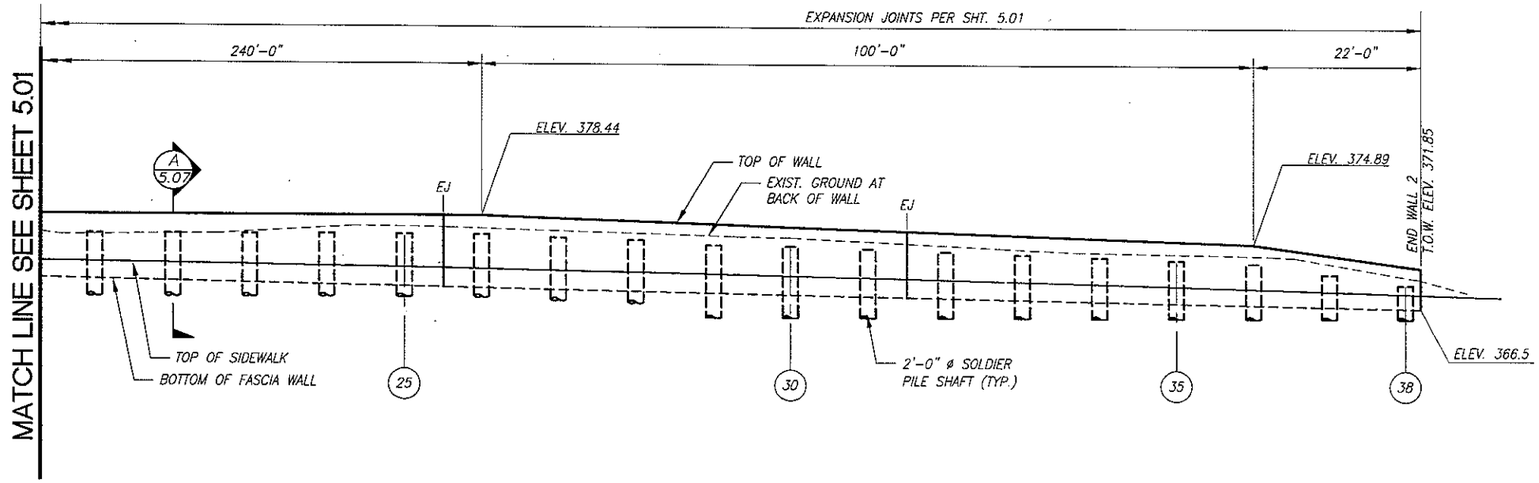
EXHIBIT 3
PAGE 46 OF 114



WALL 2 PARTIAL PLAN



WALL 2 PARTIAL ELEVATION

NOTES:

EJ - EXPANSION JOINT

(X) - PILE NUMBER

- BOREHOLE LOCATION

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WALL 2 SOLDIER PILE WALL TABLE

SOLDIER PILE NO.	SOLDIER PILE TYPE	TOP OF SOLDIER PILE SHAFT ELEV. (FT.)	TIP OF SOLDIER PILE SHAFT ELEV. (FT.)
1	W 12X26	374.6	366.1
2	W 12X26	375.9	363.0
3	W 12X26	375.9	363.0
4	W 12X26	375.9	362.9
5	W 12X26	375.9	362.8
6	W 12X26	375.9	362.7
7	W 12X26	375.9	361.9
8	W 12X26	375.9	361.8
9	W 12X26	375.9	361.7
10	W 12X26	375.9	361.6
11	W 12X26	375.9	361.6
12	W 12X26	375.9	361.5
13	W 12X26	375.9	361.4
14	W 12X26	375.9	360.6
15	W 12X26	375.9	360.5
16	W 12X26	375.9	360.4
17	W 12X26	375.9	360.4
18	W 12X26	375.9	360.3
19	W 12X26	375.9	359.1
20	W 12X26	375.9	359.0
21	W 12X26	375.9	358.9
22	W 12X26	375.9	358.8
23	W 12X26	375.9	357.6
24	W 12X26	375.9	357.5
25	W 12X26	375.9	357.3
26	W 12X26	375.9	356.4
27	W 12X26	375.6	357.0
28	W 12X26	375.2	356.8
29	W 12X26	374.9	356.6
30	W 12X26	374.5	357.3
31	W 12X26	374.2	357.1
32	W 12X26	373.8	356.9
33	W 12X26	373.5	356.6
34	W 12X26	373.1	357.4
35	W 12X26	372.7	357.1
36	W 12X26	372.4	356.8
37	W 12X26	371.0	358.0
38	W 12X26	369.6	359.7

10' 0' 10' 20'
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PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
WALL 2 PARTIAL PLAN AND ELEVATION

DATE: Oct 2011	CHECKED BY: NMV
DESIGNED BY: XW	PROJECT NO.: PW10-XX
DRAWN BY: XW	SCALE: 1"=10'
SHEET X OF X	
DRAWING NO.: 5.02	

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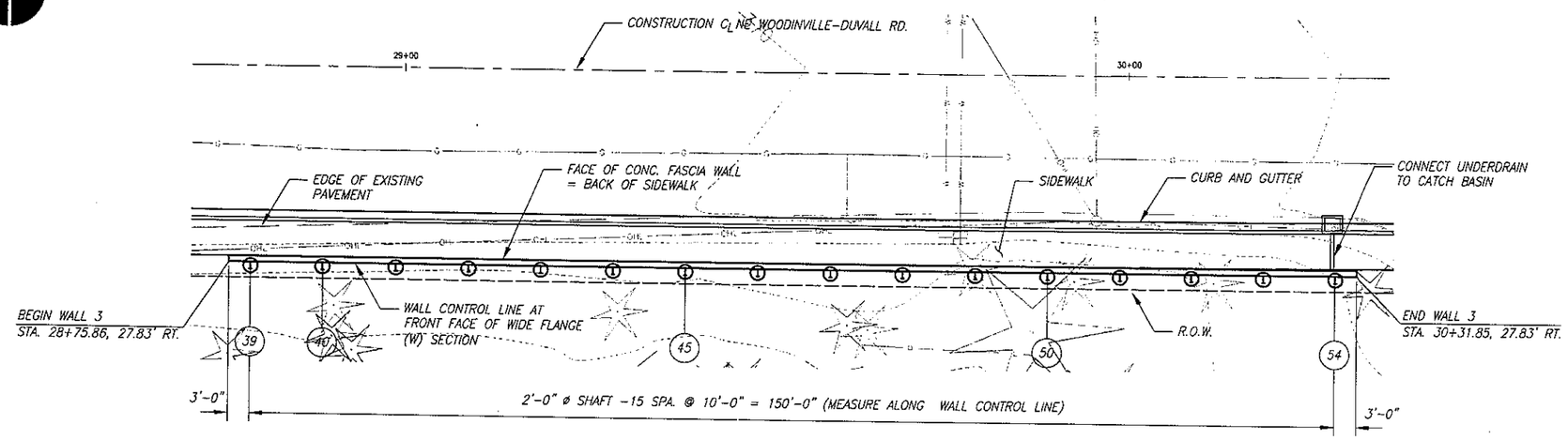
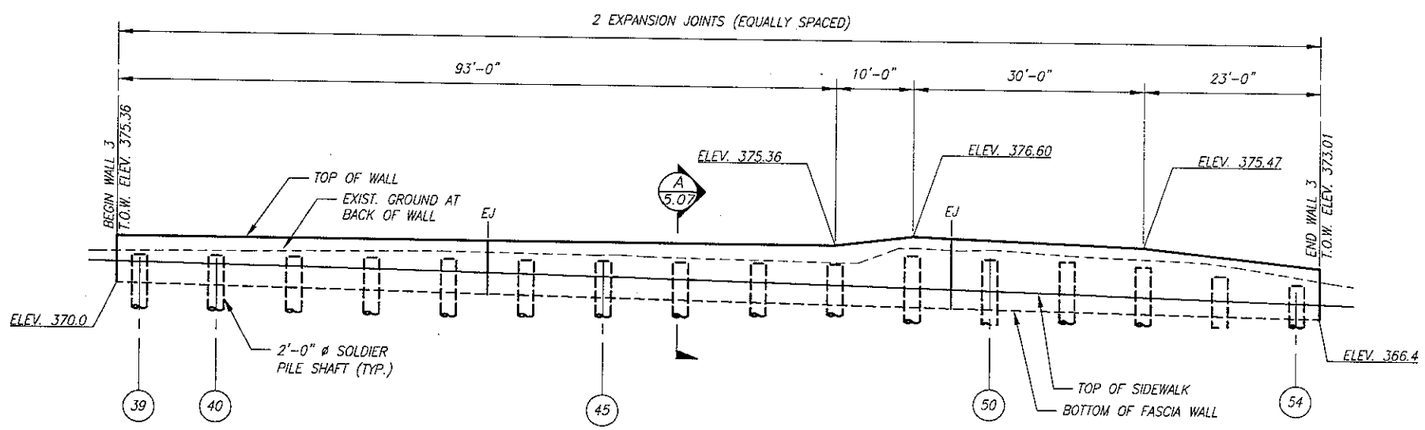
EXHIBIT 3
PAGE 47 OF 114



WALL 3 PLAN

WALL 3 SOLDIER PILE WALL TABLE			
SOLDIER PILE NO.	SOLDIER PILE TYPE	TOP OF SOLDIER PILE SHAFT ELEV. (FT.)	TIP OF SOLDIER PILE SHAFT ELEV. (FT.)
39	W 12X26	372.9	364.2
40	W 12X26	372.9	363.0
41	W 12X26	372.9	362.8
42	W 12X26	372.9	362.7
43	W 12X26	372.9	361.5
44	W 12X26	372.9	361.3
45	W 12X26	372.9	360.1
46	W 12X26	372.9	359.9
47	W 12X26	372.9	359.6
48	W 12X26	372.9	358.7
49	W 12X26	374.1	355.6
50	W 12X26	373.7	355.4
51	W 12X26	373.3	356.1
52	W 12X26	373.0	355.8
53	W 12X26	371.9	356.5
54	W 12X26	370.8	357.7



WALL 3 ELEVATION

NOTES:

EJ - EXPANSION JOINT

(X) - PILE NUMBER

- BOREHOLE LOCATION

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PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
WALL 3 PLAN AND ELEVATION

DATE: Oct 2011	CHECKED BY: NMV
DESIGNED BY: XW	PROJECT NO.: PW10-XX
DRAWN BY: XW	SCALE: 1"=10'
SHEET X OF X	
DRAWING NO.: 5.03	

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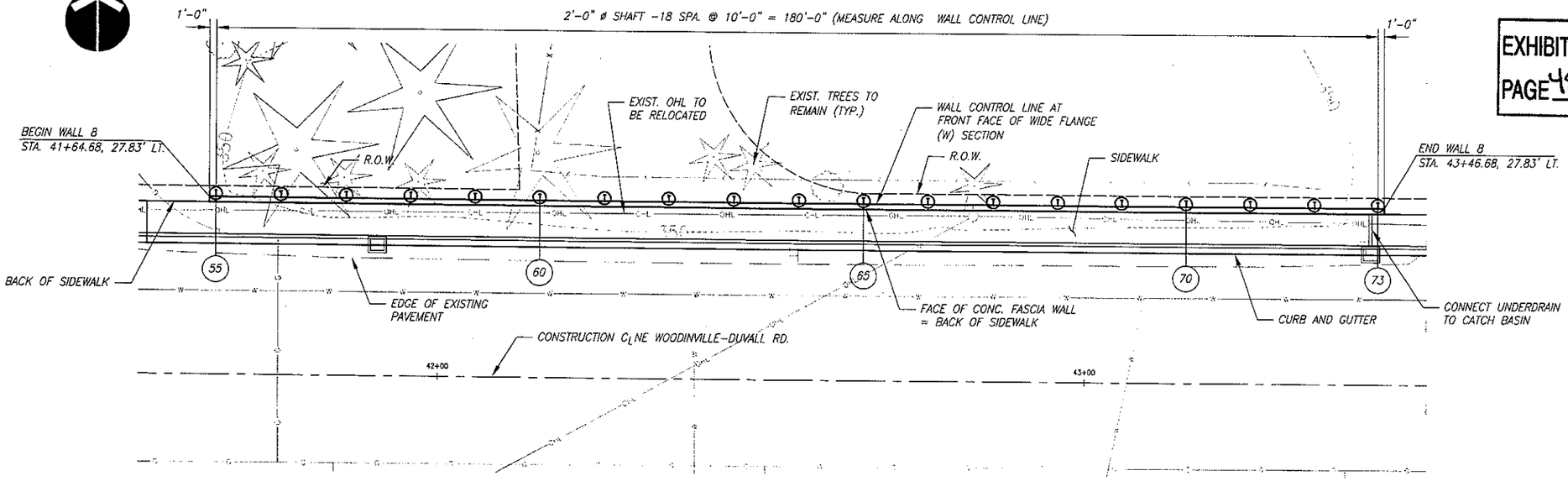
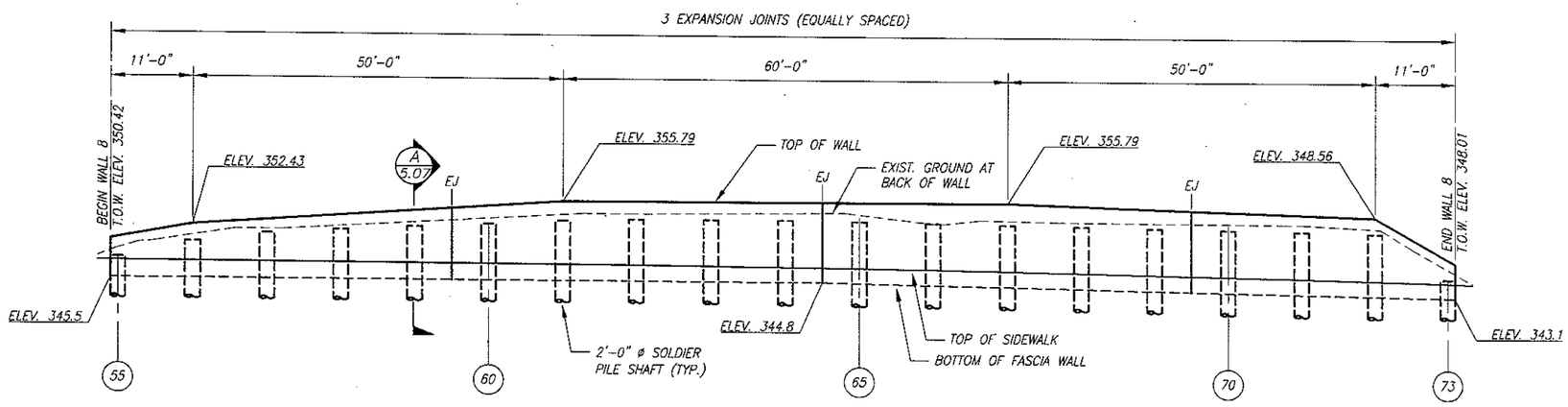
EXHIBIT 3
PAGE 48 OF 114



WALL 8 PLAN



WALL 8 ELEVATION

NOTES:

EJ - EXPANSION JOINT

(X) - PILE NUMBER

- BOREHOLE LOCATION

WALL 8
SOLDIER PILE WALL TABLE

SOLDIER PILE NO.	SOLDIER PILE TYPE	TOP OF SOLDIER PILE SHAFT ELEV. (FT.)	TIP OF SOLDIER PILE SHAFT ELEV. (FT.)
55	W 12X26	348.1	339.7
56	W 12X26	349.9	335.9
57	W 12X26	350.6	335.1
58	W 12X26	351.3	334.1
59	W 12X26	351.9	332.3
60	W 12X26	352.6	331.2
61	W 12X26	353.3	329.4
62	W 12X26	353.3	329.3
63	W 12X26	353.3	329.3
64	W 12X26	353.3	329.2
65	W 12X26	353.3	329.1
			-1.3
66	W 12X26	353.3	328.4
67	W 12X26	353.3	328.3
68	W 12X26	352.9	328.1
69	W 12X26	352.6	328.4
70	W 12X26	352.3	328.1
71	W 12X26	351.9	327.9
72	W 12X26	351.6	327.7
73	W 12X26	346.1	337.4

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PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
WALL 8 PLAN AND ELEVATION

DATE: Oct 2011	CHECKED BY: NMV
DESIGNED BY: XW	PROJECT NO.: PW10-XX
DRAWN BY: XW	SCALE: 1"=10'
SHEET X OF X	
DRAWING NO.: 5.04	

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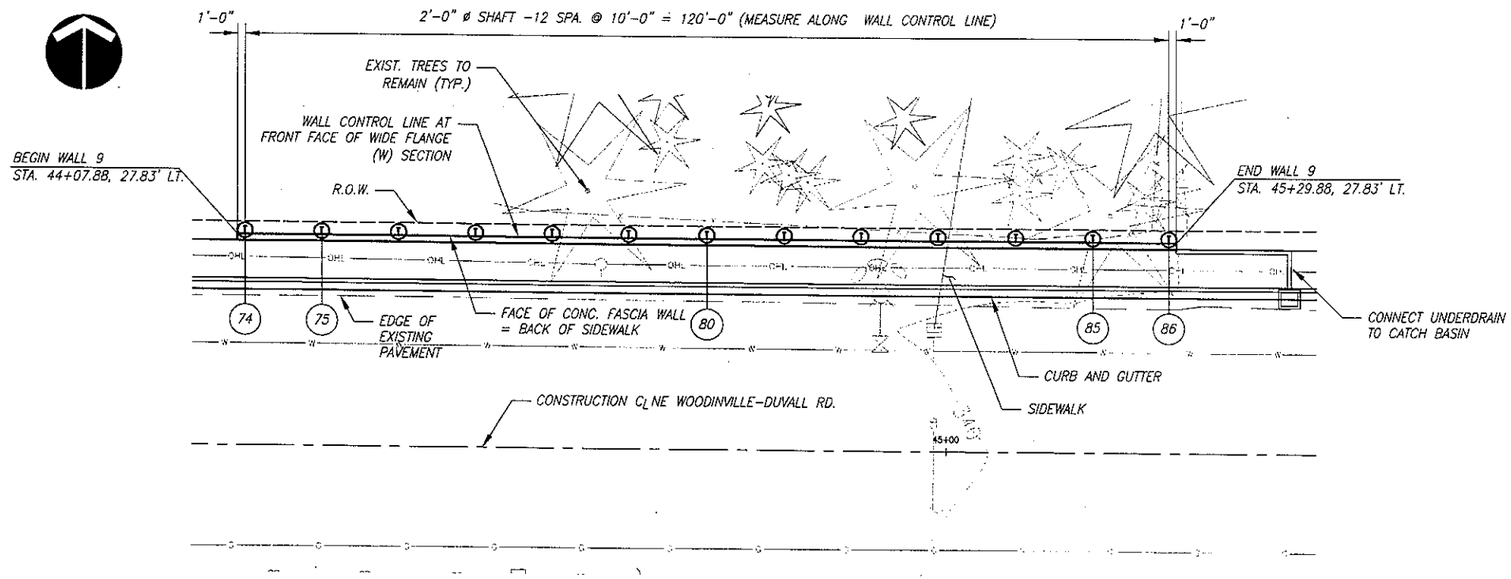
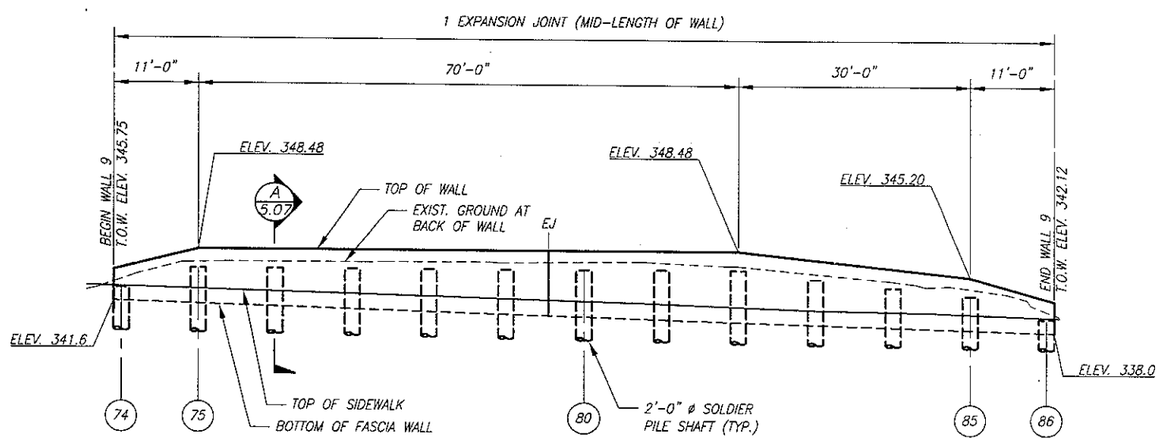
EXHIBIT 3
PAGE 49 OF 114



WALL 9 PLAN



WALL 9 ELEVATION

WALL 9
SOLDIER PILE WALL TABLE

SOLDIER PILE NO.	SOLDIER PILE TYPE	TOP OF SOLDIER PILE SHAFT ELEV. (FT.)	TIP OF SOLDIER PILE SHAFT ELEV. (FT.)
74	W 12X26	343.5	336.9
75	W 12X26	346.0	331.8
76	W 12X26	346.0	331.5
77	W 12X26	346.0	330.5
78	W 12X26	346.0	330.3
79	W 12X26	346.0	329.0
80	W 12X26	346.0	327.7
81	W 12X26	346.0	327.3
82	W 12X26	346.0	326.3
83	W 12X26	344.9	326.6
84	W 12X26	343.8	328.4
85	W 12X26	342.7	329.6
86	W 12X26	339.9	333.3

NOTES:
EJ - EXPANSION JOINT
(X) - PILE NUMBER
- BOREHOLE LOCATION

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PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
WALL 9 PLAN AND ELEVATION

DATE: Oct 2011	CHECKED BY: NMV
DESIGNED BY: XW	PROJECT NO.: PW10-XX
DRAWN BY: XW	SCALE: 1"=10'
SHEET X OF X	
DRAWING NO.: 5.05	

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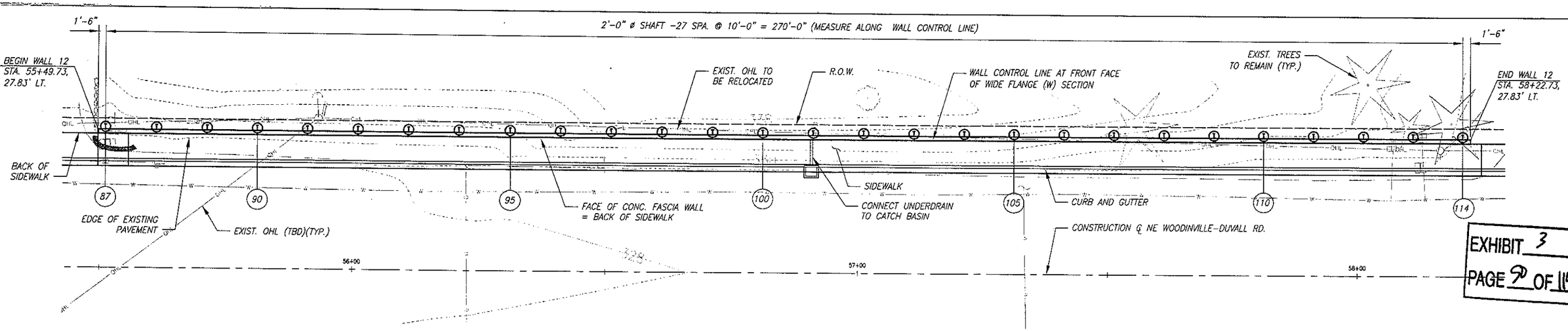
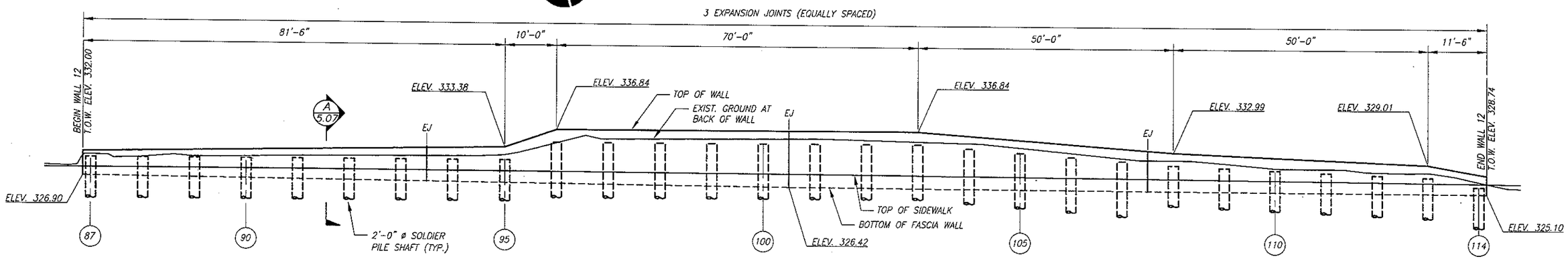


EXHIBIT 3
PAGE 50 OF 114

WALL 12 PLAN



WALL 12 ELEVATION

WALL 12
SOLDIER PILE WALL TABLE

SOLDIER PILE NO.	SOLDIER PILE TYPE	TOP OF SOLDIER PILE SHAFT ELEV. (FT.)	TIP OF SOLDIER PILE SHAFT ELEV. (FT.)
87	W 12X26	330.9	319.2
88	W 12X26	330.9	319.2
89	W 12X26	330.9	319.1
90	W 12X26	330.9	319.1
91	W 12X26	330.9	318.1
92	W 12X26	330.9	318.0
93	W 12X26	330.9	318.0
94	W 12X26	330.9	317.9
95	W 12X26	330.9	317.9
96	W 12X26	334.3	311.6
97	W 12X26	334.3	311.6

WALL 12
SOLDIER PILE WALL TABLE (CONTINUED)

98	W 12X26	334.3	311.6
99	W 12X26	334.3	311.5
100	W 12X26	334.3	311.5
101	W 12X26	334.3	311.4
102	W 12X26	334.3	310.6
103	W 12X26	334.3	310.5
104	W 12X26	333.6	332.2
105	W 12X26	332.8	313.1
106	W 12X26	332.0	313.8
107	W 12X26	331.3	315.7
108	W 12X26	330.5	316.3
109	W 12X26	330.1	317.0
110	W 12X26	329.6	317.9
111	W 12X26	329.2	317.8
112	W 12X26	328.7	318.7
113	W 12X26	328.3	318.5
114	W 12X26	326.5	320.4

NOTES:

EJ - EXPANSION JOINT

(X) - PILE NUMBER

- BOREHOLE LOCATION

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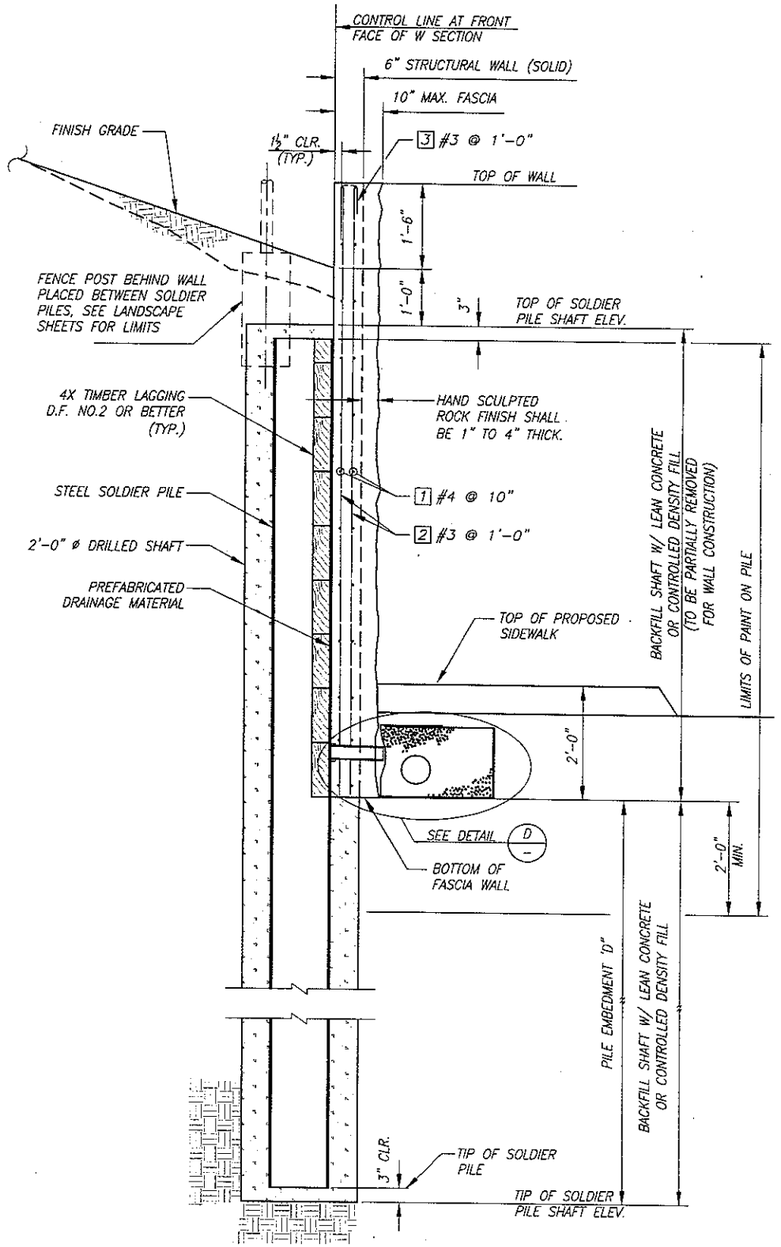
PROJECT INFORMATION
WOODINVILLE-DUVALL
ROAD WIDENING PROJECT

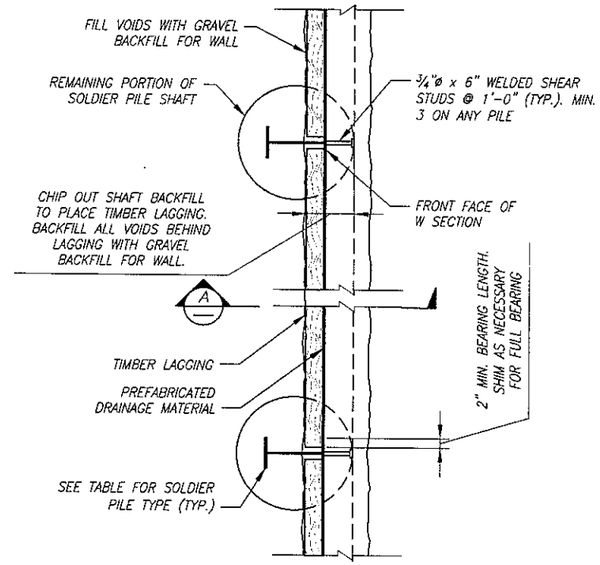
SHEET TITLE:
WALL 12
PLAN AND
ELEVATION

DATE: Oct 2011	CHECKED BY: NMV
DESIGNED BY: XW	PROJECT NO.: PW10-XX
DRAWN BY: XW	SCALE: 1"=10'
SHEET x OF x	
DRAWING NO.: 5.06	

Plotted: Oct 17, 2011 - 4:56pm jeffr K:\project\31400\31423\Dwg\5.01.dwg Layout Name: 5.06



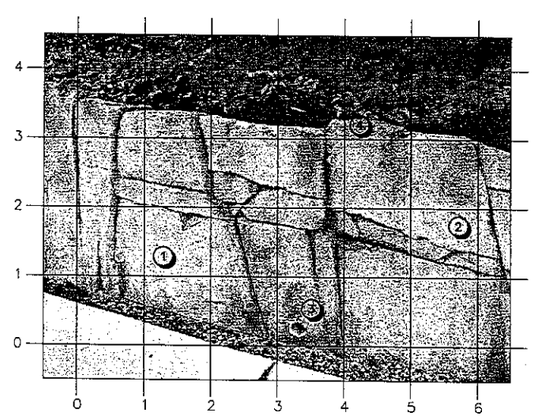
TYPICAL SECTION A



PLAN – SOLDIER PILE WALL

NOTES:

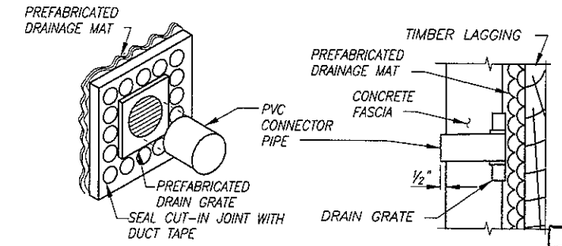
1. SCULPTED SHOTCRETE SHALL BE 1" TO 4" THICKNESS.
2. AVOID CREATING UNIFORM SIZED BLOCKS.
3. THE CONTRACTOR IS ENCOURAGED TO VISIT AND VIEW THE EXISTING WALLS LOCATED ON SR 202 (WOODINVILLE-REDMOND ROAD), AT APPROX. NE 120TH STREET, AND BETWEEN NE 98TH STREET & NE 101ST COURT FOR GENERAL EXAMPLE OF A SIMILARLY FINISHED APPEARANCE.



HAND SCULPTED ROCK FINISH

REFERENCE NUMBERS:

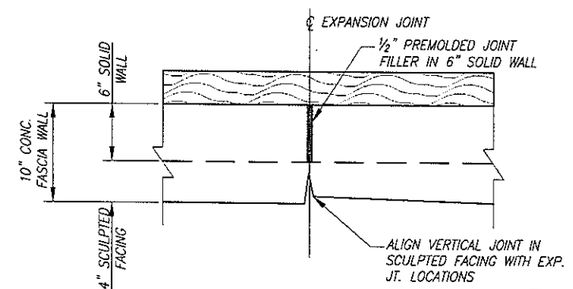
1. MAXIMUM SIZE OF PLAIN SURFACE NOT LARGER THAN THREE SQUARE FEET.
2. CREVICES SHALL DRAIN FREELY AND NOT COLLECT WATER.
3. EXPOSED ENDS OF WEEPHOLE PIPE SHALL BE FLUSH WITH SHOTCRETE.
4. TOP EDGE SHALL BE ANGULAR NOT ROUNDED.



WEEP HOLE DRAIN DETAILS

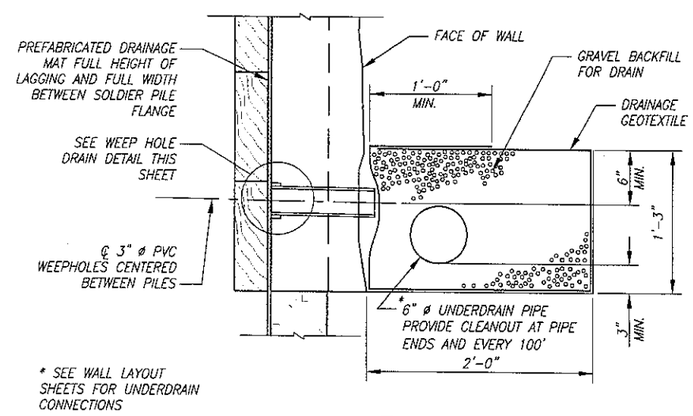
DRAIN GRATE INSTALLATION SHALL NOT DISRUPT PREFABRICATED DRAINAGE MAT

EXHIBIT 3
PAGE 51 OF 114



EXPANSION JOINT DETAIL C

SEE WALL LAYOUTS FOR JOINT LOCATIONS



* SEE WALL LAYOUT SHEETS FOR UNDERDRAIN CONNECTIONS

DETAIL D

CALL BEFORE YOU DIG
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10230 NE Points Dr #400
Kirkland, Washington 98033
Phone: (425) 822-4446
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PRELIMINARY DRAFT

STEPHEN J. WILSON — STATE OF WASHINGTON — 45633 — REGISTERED PROFESSIONAL ENGINEER

P.E. STAMP BOX

NO.	REVISION	DATE	BY	CK
1				
2				
3				
4				
5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE–DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
WALL DETAILS

DATE: Oct 2011	CHECKED BY: NMV
DESIGNED BY: XW	PROJECT NO.: PW10-XX
DRAWN BY: XW	SCALE: AS NOTED
SHEET X OF X	
DRAWING NO.: 5.07	

Plotted: Oct 17, 2011 – 4:57pm jeffr K:\project\31400\31423\Dwg\5.01.dwg Layout Name: 5.07

MODULAR BLOCK TABLE

WALL 1A

TYPE	STA	OFFSET	TOW	BOW	NOTE
FILL	22+50.00	27.50' RT	378.85	375.00	BEGIN WALL
	22+68.00	27.50' RT	378.36	374.33	STEP
	22+90.50	27.50' RT	377.81	373.67	STEP
	23+18.00	27.50' RT	377.20	373.00	STEP
	23+56.78	27.50' RT	376.49	372.33	STEP
	24+56.78	27.50' RT	375.38	371.67	STEP
	24+77.78	27.50' RT	375.22	371.00	STEP
	24+87.78	27.50' RT	375.15	370.33	STEP
	24.97.78	27.50' RT	375.07	369.67	STEP
	25+25.78	27.50' RT	374.86	369.00	STEP
	25+64.62	27.50' RT	374.57	369.00	AP
	25+74.05	30.00' RT	374.14	368.33	AP, STEP
	25+75.37	34.83' RT	373.92	367.67	STEP
	25+76.29	38.21' RT	373.77	367.00	STEP
	25+78.62	46.77' RT	373.38	366.33	AP, STEP
	25+78.62	57.41' RT	372.91	366.33	END WALL

WALL 1B

TYPE	STA	OFFSET	TOW	BOW	NOTE
FILL	26+50.62	30.00' RT	373.97	368.67	BEGIN WALL
	27+29.11	30.00' RT	373.37	368.67	END WALL

WALL 4

TYPE	STA	OFFSET	TOW	BOW	NOTE
FILL	32+50.00	30.00' RT	359.87	355.00	BEGIN WALL
	32+59.00	30.00' RT	359.50	354.33	STEP
	32+69.52	30.00' RT	359.07	353.67	STEP
	32+80.54	30.00' RT	358.63	353.00	STEP
	32+91.05	30.00' RT	358.20	352.33	STEP
	33+07.06	30.00' RT	357.58	351.67	STEP
	33+24.08	30.00' RT	356.93	351.00	STEP
	33+44.10	30.00' RT	356.19	350.33	STEP
	33+75.14	30.00' RT	355.10	349.67	STEP
	33+86.15	30.00' RT	354.74	349.00	STEP
	33+95.16	30.00' RT	354.45	348.33	STEP
	34+04.17	30.00' RT	354.17	347.67	STEP
	34+12.18	30.00' RT	353.92	347.00	STEP
	34+38.21	30.00' RT	353.15	347.67	STEP
	34+57.85	30.00' RT	352.60	347.67	END WALL

WALL 5

TYPE	STA	OFFSET	TOW	BOW	NOTE
CUT	35+38.07	30.00' RT	351.33	349.17	BEGIN WALL
	35+45.07	30.00' RT	352.00	349.03	STEP
	35+66.10	30.00' RT	352.67	348.62	STEP
	35+88.12	30.00' RT	353.33	348.23	STEP
	36+24.16	30.00' RT	352.67	347.68	STEP
	36+30.16	30.00' RT	352.00	347.60	STEP
	36+37.17	30.00' RT	351.33	347.51	STEP
	36+44.18	30.00' RT	350.67	347.42	STEP
	36+51.19	30.00' RT	350.00	347.28	STEP
	36+54.54	30.00' RT	350.00	347.28	END WALL

WALL 6

TYPE	STA	OFFSET	TOW	BOW	NOTE
FILL	37+83.49	27.50' RT	351.33	349.17	BEGIN WALL
	37+92.50	27.50' RT	352.00	349.03	STEP
	38+07.51	27.50' RT	352.67	348.62	STEP
	38+94.60	27.50' RT	353.33	348.23	STEP
	40+12.72	27.50' RT	352.67	347.68	STEP
	40+20.72	27.50' RT	352.00	347.60	STEP
	40+28.73	27.50' RT	351.33	347.51	STEP
	40+36.74	27.50' RT	350.67	347.42	STEP
	40+48.17	27.50' RT	350.00	347.28	STEP
	36+54.54	27.50' RT	350.00	347.28	END WALL

WALL 7

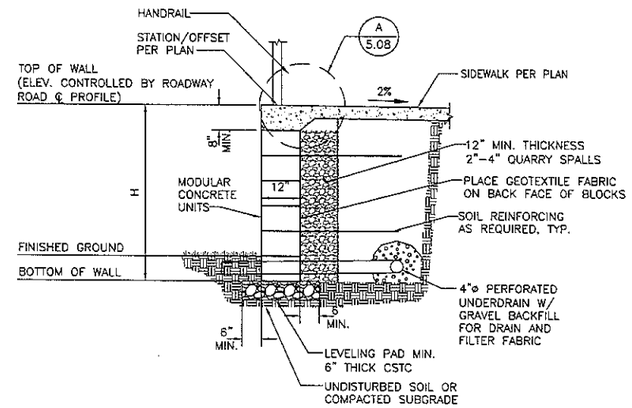
TYPE	STA	OFFSET	TOW	BOW	NOTE
FILL	39+86.00	27.50' LT	347.64	375.00	BEGIN WALL
	39+88.00	27.50' LT	347.64	374.33	STEP
	39+92.00	27.50' LT	347.63	373.67	STEP
	39+97.00	27.50' LT	346.63	373.00	STEP
	40+02.00	27.50' LT	347.62	372.33	STEP
	40+06.00	27.50' LT	347.61	371.67	STEP
	40+11.00	27.50' LT	347.61	371.00	STEP
	40+16.00	27.50' LT	347.60	370.33	STEP
	40+20.00	27.50' LT	347.60	369.67	STEP
	40+31.00	27.50' LT	347.58	369.00	STEP
	40+36.00	27.50' LT	347.58	369.00	STEP
	40+41.00	27.50' LT	347.57	368.33	STEP
	40+46.00	27.50' LT	347.56	367.67	STEP
	40+51.00	27.50' LT	347.56	367.00	STEP
	40+56.00	27.50' LT	347.55	366.33	STEP
	40+61.00	27.50' LT	347.54	366.33	STEP
	40+66.00	27.50' LT	347.54	366.33	STEP
	40+70.00	27.50' LT	347.53	366.33	END WALL

WALL 10

TYPE	STA	OFFSET	TOW	BOW	NOTE
FILL	45+13.67	30.50' RT	340.16	337.33	BEGIN WALL
	45+18.67	30.50' RT	339.98	336.67	STEP
	45+35.67	30.50' RT	339.37	336.00	STEP
	45+48.67	30.50' RT	338.90	335.33	STEP
	45+59.67	30.50' RT	338.51	334.67	STEP
	45+67.67	30.50' RT	338.22	334.00	STEP
	45+73.67	30.50' RT	338.00	333.33	STEP
	45+78.67	30.50' RT	337.82	332.67	STEP
	45+81.67	30.50' RT	337.72	332.00	STEP
	45+86.67	30.50' RT	337.54	331.33	STEP
	45+92.67	30.50' RT	337.32	330.67	STEP
	45+98.67	30.50' RT	337.10	330.00	STEP
	46+03.67	30.50' RT	336.92	329.33	STEP
	46+10.67	30.50' RT	336.67	328.67	STEP
	46+14.67	30.50' RT	336.53	328.00	STEP
	46+32.67	30.50' RT	335.88	327.33	STEP
	46+80.67	30.50' RT	334.20	328.00	STEP
	46+94.67	30.50' RT	333.74	328.67	STEP
	47+12.67	30.50' RT	333.17	328.00	STEP
	47+29.67	30.50' RT	332.65	327.33	STEP
	47+47.67	30.50' RT	332.13	326.67	STEP
	47+63.67	30.50' RT	331.68	326.00	STEP
	47+70.67	30.50' RT	331.42	326.00	END WALL

WALL 11

TYPE	STA	OFFSET	TOW	BOW	NOTE
FILL	49+95.52	30.50' RT	378.85	375.00	BEGIN WALL
	50+07.50	30.50' RT	378.36	374.33	STEP
	50+16.52	30.50' RT	377.81	373.67	STEP
	50+21.52	30.50' RT	377.20	373.00	STEP
	50+30.52	30.50' RT	376.49	372.33	STEP
	50+45.52	30.50' RT	375.38	371.67	STEP
	50+58.52	30.50' RT	375.22	371.00	STEP
	50+95.52	30.50' RT	375.15	370.33	STEP
	51+22.52	30.50' RT	375.07	369.67	STEP
	51+39.52	30.50' RT	374.86	369.00	STEP
	51+74.52	30.50' RT	374.57	369.00	STEP

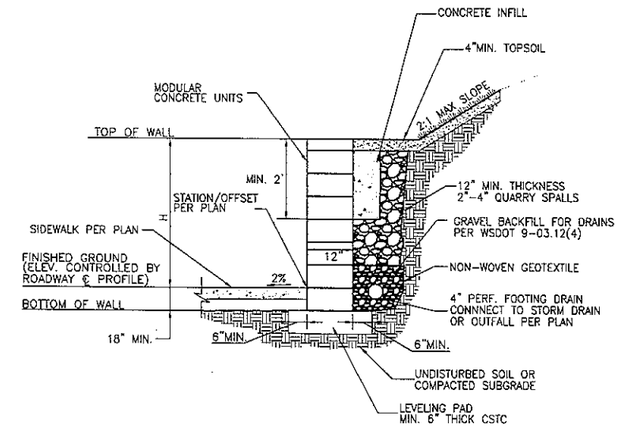


NOTE:

1. PROVIDE GEOGRID PER WALL MANUFACTURER.
2. SEE LANDSCAPE PLANS FOR PLANTING DETAILS ADJACENT TO WALL.

MODULAR BLOCK WALL WITH HANDRAIL (FILL)

NOT TO SCALE



NOTE:

1. PROVIDE GEOGRID PER WALL MANUFACTURER.
2. SEE LANDSCAPE PLANS FOR PLANTING DETAILS ADJACENT TO WALL.

MODULAR BLOCK WALL (CUT)

NOT TO SCALE

MODULAR BLOCK WALL NOTES

GENERAL CONDITIONS

1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION" DATED 2010.
2. CONTRACTOR SHALL SUBMIT STAMPED GRAVITY BLOCK WALL DESIGN DETAILS AND CALCULATIONS TO ENGINEER FOR REVIEW AND APPROVAL.
3. WALLS SHALL BE DESIGNED IN ACCORDANCE WITH THE WSDOT GEOTECHNICAL DESIGN MANUAL, WSDOT BRIDGE DESIGN MANUAL, AND THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 5TH EDITION. WALL SHALL BE DESIGNED FOR A LIVE LOAD SURCHARGE OF 250 PSF, OR PER MANUALS LISTED ABOVE, WHICHEVER IS GREATER.
4. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
5. IN CASE OF CONFLICT, NOTES AND DETAILS OF THESES RETAINING WALL DRAWINGS SHALL TAKE PRECEDENCE OVER THE "GENERAL NOTES" AND/OR "STANDARD DETAILS".
6. IF A SPECIFIC DETAIL IS NOT SHOWN FOR ANY PART OF THE WORK, THE CONSTRUCTION SHALL BE THE SAME AS FOR SIMILAR WORK.
7. WORKING DIMENSIONS SHALL BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THESE DRAWINGS AND FROM THE APPROVED SHOP DRAWINGS.
8. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONDITIONS WHICH, IN HIS OPINION, MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS TO THE STRUCTURE.
9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT HIS WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. AS PART OF HIS RESPONSIBILITY, THE GENERAL CONTRACTOR SHALL PROVIDE THE SERVICES OF A LICENSED ENGINEER TO DESIGN AND SUPERVISE ANY SCAFFOLDING FOR HIS WORKMEN AND SHORING OF FORMS AND ELEMENTS OF CONSTRUCTION AFFECTED BY HIS WORK.
10. REFER TO THE CIVIL DRAWINGS FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE RETAINING WALL DRAWING.
11. NOTIFY ENGINEER OF ALL FIELD CHANGES PRIOR TO INSTALLATION.
12. PIPE, DUCTS, SLEEVES, OPENINGS, POCKETS, CHASES, BLOCK-OUTS, ETC., SHALL NOT BE PLACED IN SLABS, FOUNDATIONS, ETC., NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR SUCH ITEMS, UNLESS SPECIFICALLY DETAILED ON THESE RETAINING WALLS.
13. SEE GEOTECHNICAL REPORT FOR FURTHER GUIDELINES ON BEARING PRESSURES RECOMMENDED AND CONSTRUCTION GUIDELINES.

EXHIBIT 3
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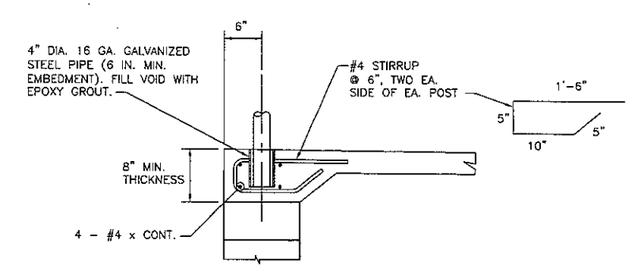

HANDRAIL CONNECTION DETAIL

NOT TO SCALE

A 5.08

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PRELIMINARY DRAFT

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CITY OF WOODINVILLE
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WOODINVILLE, WA 98072
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FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
WALL DETAILS

DATE: Oct 2011	CHECKED BY: NMV
DESIGNED BY: XW	PROJECT NO.: PW10-XX
DRAWN BY: XW	SCALE: AS NOTED
SHEET X OF X	
DRAWING NO.: 5.07	

Plotted: Oct 17, 2011 - 4:58pm jeffr K:\project\31400\31423\Dwg\5.08.dwg Layout Name: 5.08

XREF LIST
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S423B100
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TTLBLK
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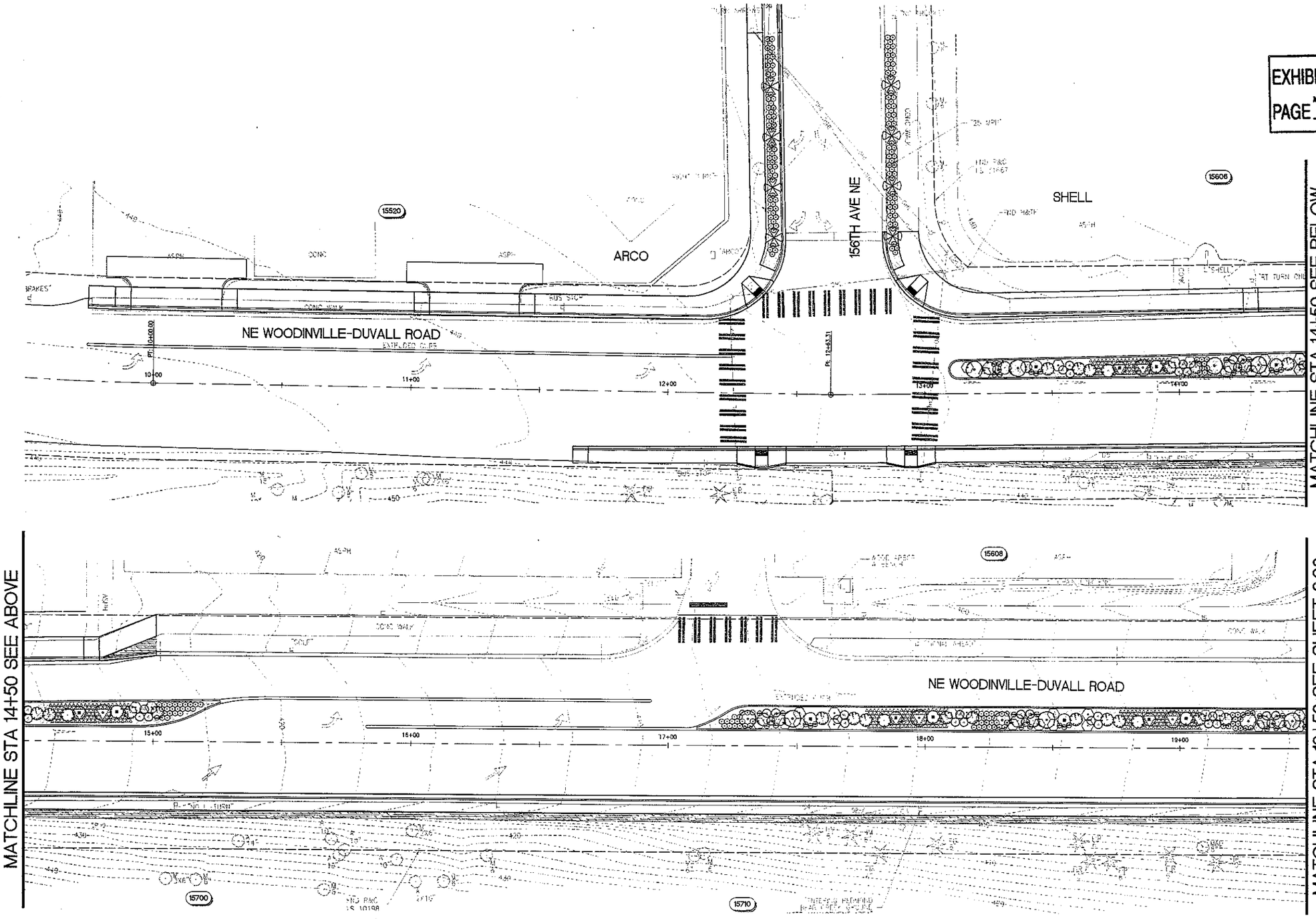
NMVSEAL
WASSEAL

EXHIBIT 3
PAGE 53 OF 114



PLANT KEY

SYMBOL	COMMON NAME
	VINE MAPLE
	WESTERN SERVICEBERRY
	DOUGLAS FIR
	AMUR MAACKIA
	BEAKED HAZELNUT
	INDIAN PLUM
	MOCK ORANGE
	ARBORVITAE
	EVERGREEN HUCKLEBERRY
	SALAL
	BUSH CINQUEFOIL
	DAVID VIBURNUM
	CALIFORNIA NARCISSUS
	KINNICKINNICK
	BEACH STRAWBERRY
	CREEPING MAHONIA
	NATIVE GRASS SEED MIX
	WOODLAND SEED MIX

NOTES:
1. DISTURBED AREAS ADJACENT TO SIDEWALKS SHALL BE RESTORED PER SPECIFICATIONS AND SEEDED USING NATIVE GRASS SEED MIX
2. AREA RECEIVING WOODLANDS SEED MIX SHALL RECEIVE TOPSOIL AND AMENDMENT PER DETAIL 1 SHEET 6.06

Preliminary - Not For Construction

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FAX: (425) 827-9577
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STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
CURTIS LAPIERRE
CERTIFICATE NO. 474

NO.	REVISION	DATE	BY	CK
1				
2				
3				
4				
5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE–DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
LANDSCAPE PLAN

DATE: March 2011	CHECKED BY: CRL
DESIGNED BY: CRL	PROJECT NO.: PW10–XX
DRAWN BY: TLE	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 6.01	

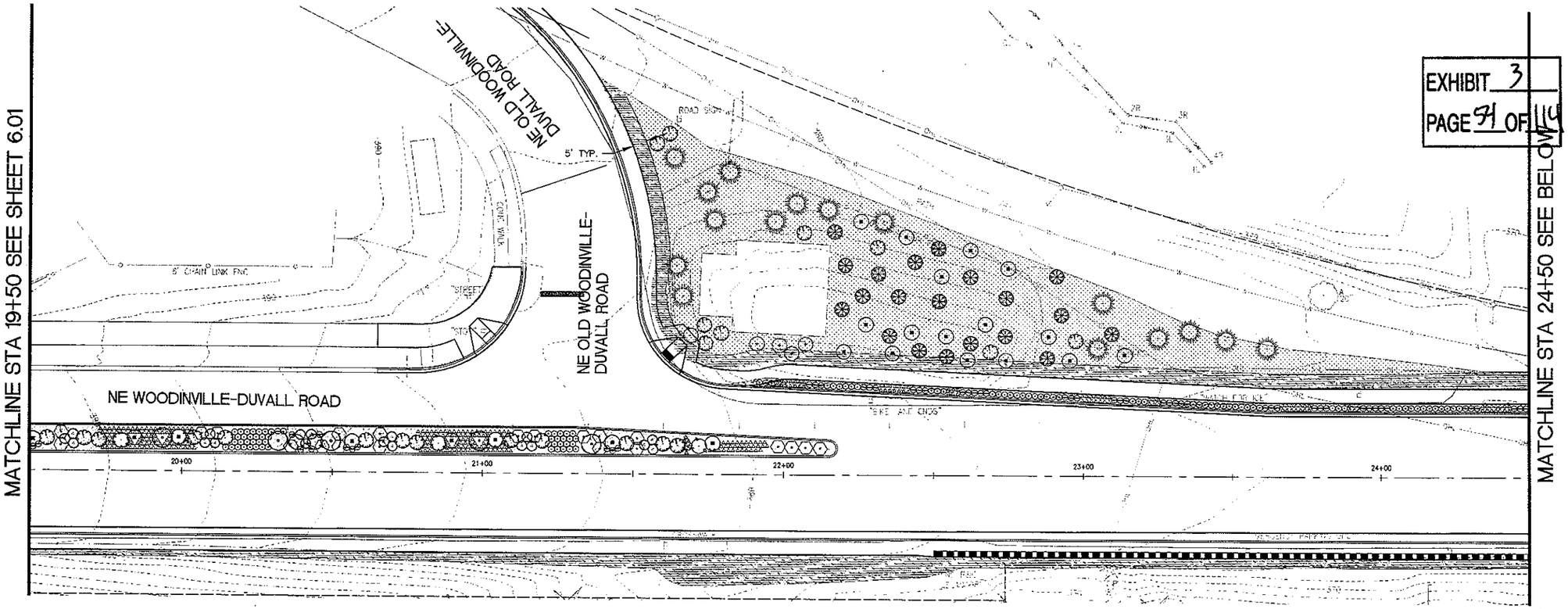

EXHIBIT 3
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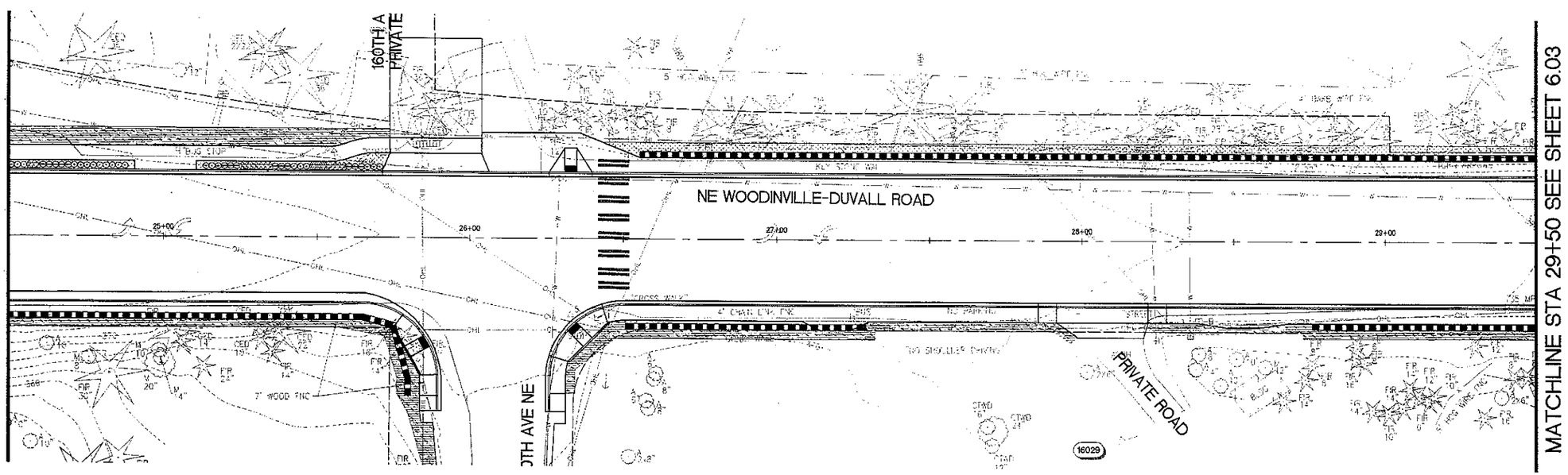

PLANT KEY

SYMBOL	COMMON NAME
	VINE MAPLE
	WESTERN SERVICEBERRY
	DOUGLAS FIR
	AMUR MAACKIA
	BEAKED HAZELNUT
	INDIAN PLUM
	MOCK ORANGE
	ARBORVITAE
	EVERGREEN HUCKLEBERRY
	SALAL
	BUSH CINQUEFOIL
	DAVID VIBURNUM
	CALIFORNIA NARCISSUS
	KINNICKINNICK
	BEACH STRAWBERRY
	CREEPING MAHONIA
	NATIVE GRASS SEED MIX
	WOODLAND SEED MIX

NOTES:
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Preliminary - Not For Construction

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STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
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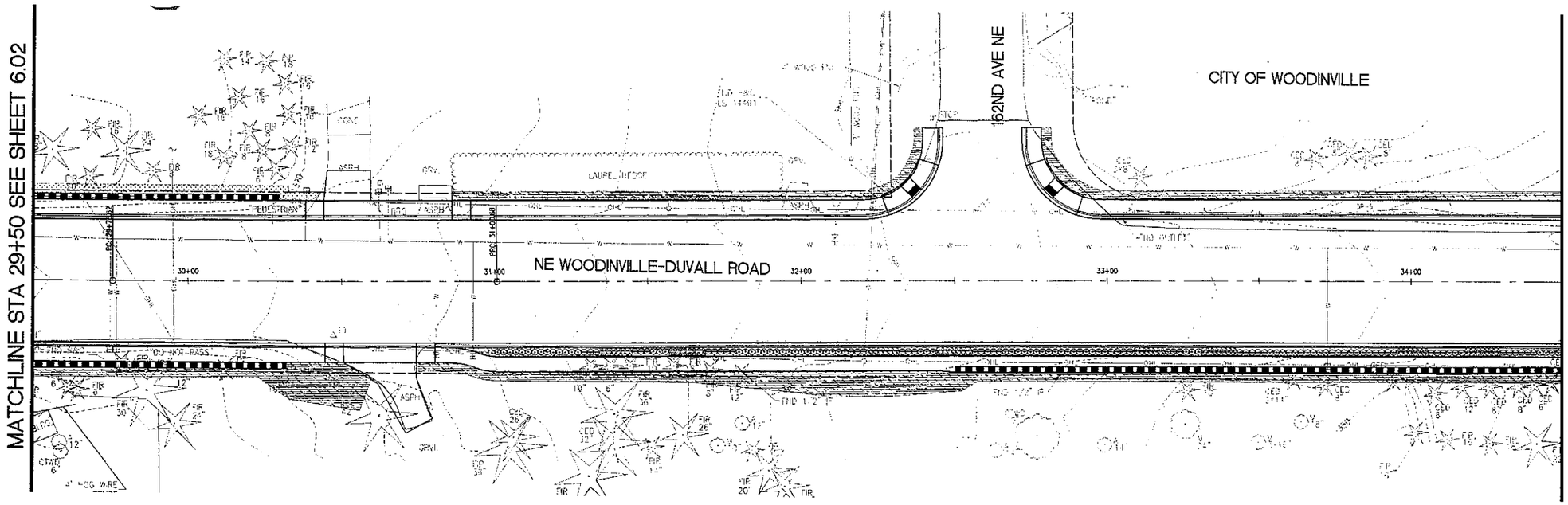
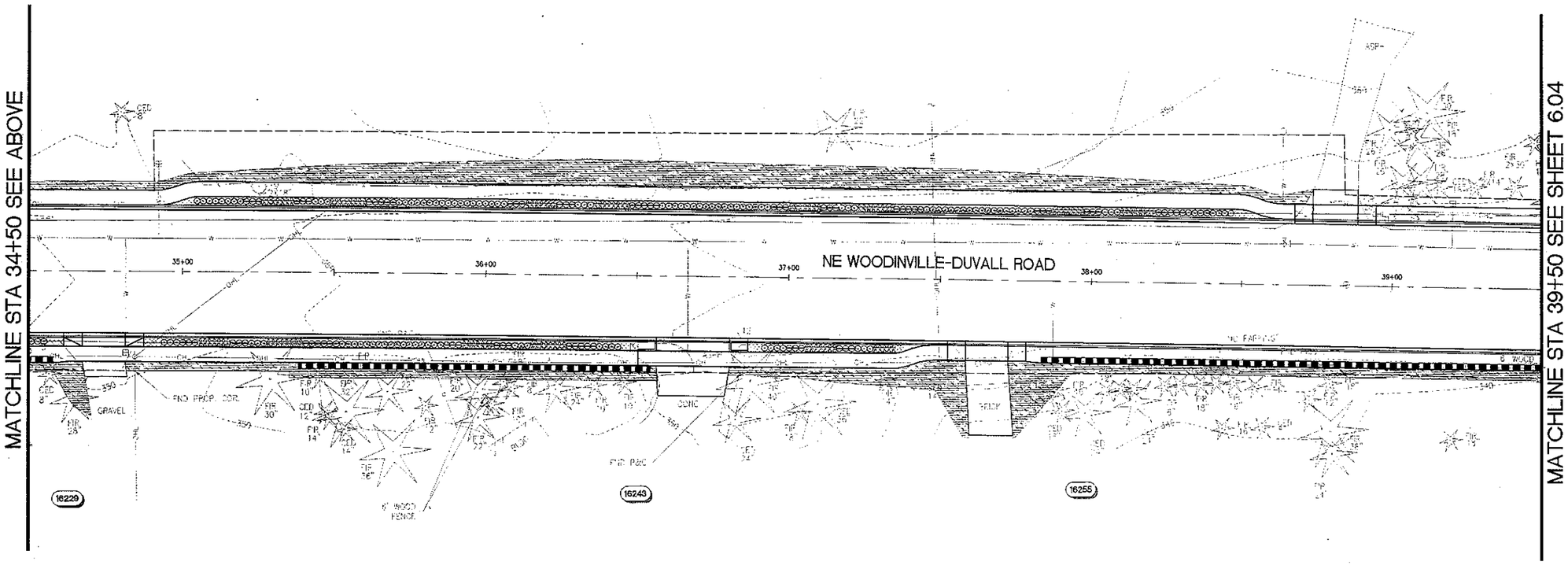
PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
LANDSCAPE PLAN

DATE: March 2011	CHECKED BY: CRL
DESIGNED BY: CRL	PROJECT NO.: PW10-XX
DRAWN BY: TLE	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 6.02	

Plotted: Oct 17, 2011 - 4:36pm jeffr K:\project\31400\31423\Dwg\6.01.dwg Layout Name: 6.02





PLANT KEY

SYMBOL	COMMON NAME
	VINE MAPLE
	WESTERN SERVICEBERRY
	DOUGLAS FIR
	AMUR MAACKIA
	BEAKED HAZELNUT
	INDIAN PLUM
	MOCK ORANGE
	ARBORVITAE
	EVERGREEN HUCKLEBERRY
	SALAL
	BUSH CINQUEFOIL
	DAVID VIBURNUM
	CALIFORNIA NARCISSUS
	KINNICKINNICK
	BEACH STRAWBERRY
	CREEPING MAHONIA
	NATIVE GRASS SEED MIX
	WOODLAND SEED MIX

NOTES:
1. DISTURBED AREAS ADJACENT TO SIDEWALKS SHALL BE RESTORED PER SPECIFICATIONS AND SEEDED USING NATIVE GRASS SEED MIX
2. AREA RECEIVING WOODLANDS SEED MIX SHALL RECEIVE TOPSOIL AND AMENDMENT PER DETAIL 1 SHEET 6.06

EXHIBIT 3
PAGE 55 OF 114

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WEB: WWW.OTAK.COM

STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
CURTIS LAPIERRE
CERTIFICATE NO. 474

NO.	REVISION	DATE	BY	CK
1				
2				
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4				
5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE–DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
LANDSCAPE PLAN

DATE: March 2011	CHECKED BY: CRL
DESIGNED BY: CRL	PROJECT NO.: PW10–XX
DRAWN BY: TLE	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 6.03	

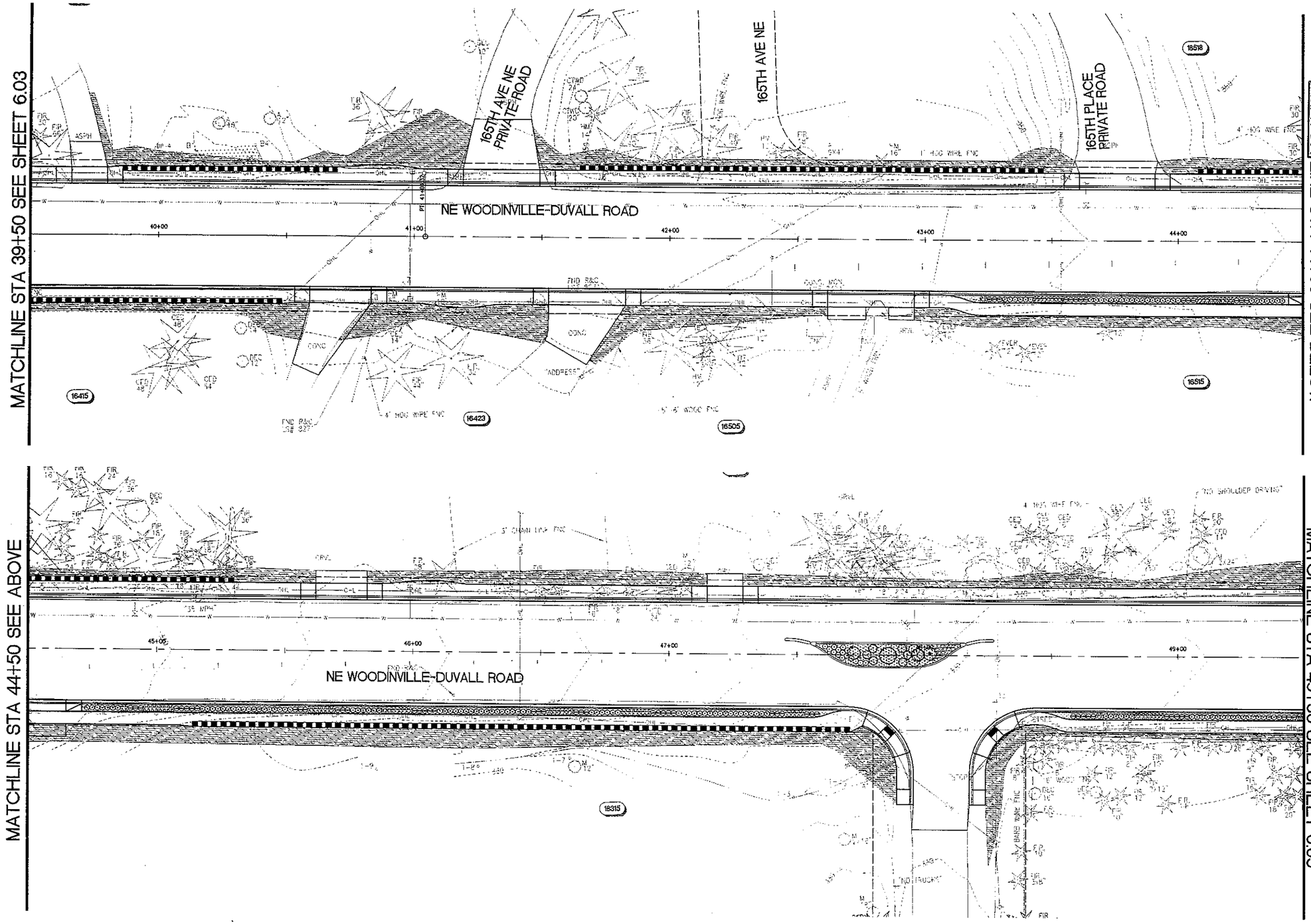

EXHIBIT 3
PAGE 86 OF 114

PLANT KEY

SYMBOL	COMMON NAME
	VINE MAPLE
	WESTERN SERVICEBERRY
	DOUGLAS FIR
	AMUR MAACKIA
	BEAKED HAZELNUT
	INDIAN PLUM
	MOCK ORANGE
	ARBORVITAE
	EVERGREEN HUCKLEBERRY
	SALAL
	BUSH CINQUEFOIL
	DAVID VIBURNUM
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	NATIVE GRASS SEED MIX
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WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
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DATE: March 2011	CHECKED BY: CRL
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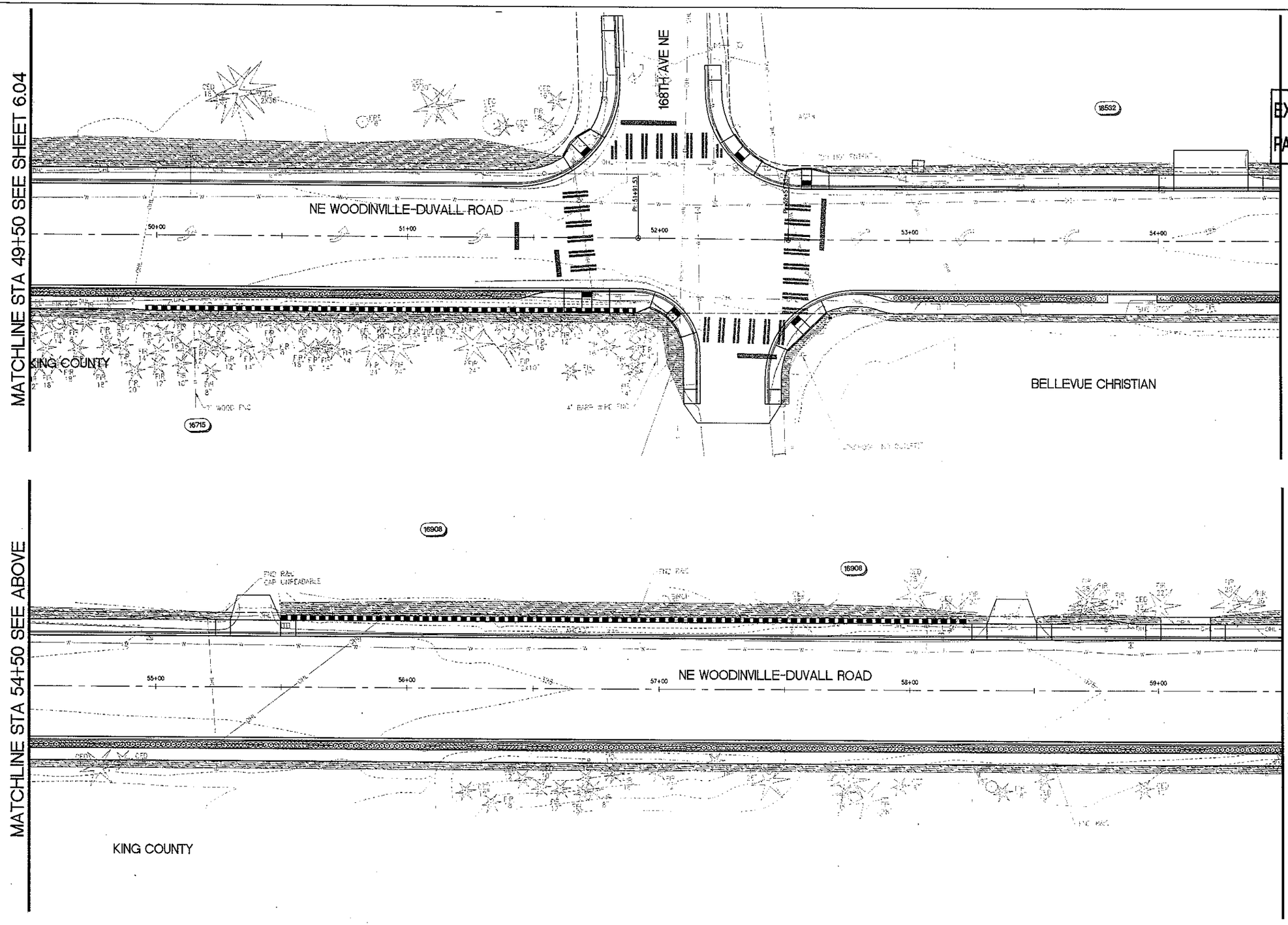

EXHIBIT 3
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PLANT KEY

SYMBOL	COMMON NAME
	VINE MAPLE
	WESTERN SERVICEBERRY
	DOUGLAS FIR
	AMUR MAACKIA
	BEAKED HAZELNUT
	INDIAN PLUM
	MOCK ORANGE
	ARBORVITAE
	EVERGREEN HUCKLEBERRY
	SALAL
	BUSH CINQUEFOIL
	DAVID VIBURNUM
	CALIFORNIA NARCISSUS
	KINNICKINNICK
	BEACH STRAWBERRY
	CREEPING MAHONIA
	NATIVE GRASS SEED MIX
	WOODLAND SEED MIX

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DRAWING NO.: 6.05	

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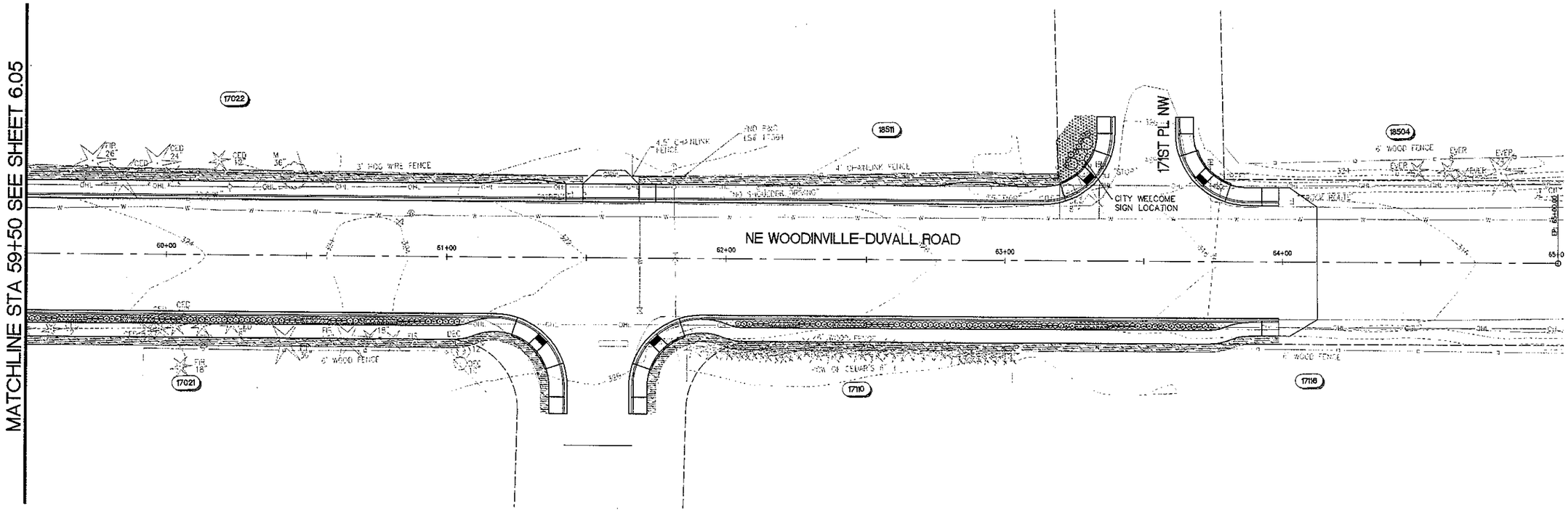
EXHIBIT 3
PAGE 56 OF 114



PLANT SCHEDULE

PLANT TYPE	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	QUANTITY
TREES		ACER CIRCINATUM	VINE MAPLE	1" CALIPER	AS SHOWN	43
		AMELANCHIER GRANDIFLORA	WESTERN SERVICEBERRY	1.5" CALIPER	AS SHOWN	20
		PSEUDOTSUGA MENZIESII	DOUGLAS FIR	8-10' TALL	AS SHOWN	16
		MAACKIA AMURENSIS 'STARBURST'	AMUR MAACKIA	2" CALIPER	AS SHOWN	8
TALL SHRUBS		CORYLUS CORNUTA	BEAKED HAZELNUT	2 GALLON	AS SHOWN	20
		OEMLARIA CERASIFORMIS	INDIAN PLUM	2 GALLON	AS SHOWN	4
		PHILADELPHUS LEWISII	MOCK ORANGE	2 GALLON	AS SHOWN	21
		THUJA OCCIDENTALIS	ARBORVITAE	AS NOTED	AS SHOWN	61
		VACCINIUM OVATUM	EVERGREEN HUCKLEBERRY	2 GALLON	AS SHOWN	37
LOW SHRUBS		GAULTHERIA SHALLON	SALAL	1 GALLON	AS SHOWN	1,630
		POTENTILLA FRUTICOSA	BUSH CINQUEFOIL	1 GALLON	AS SHOWN	430
		VIBURNUM DAVIDII	DAVID VIBURNUM	1 GALLON	AS SHOWN	975
		NARCISSUS 'CALIFORNIA'	CALIFORNIA NARCISSUS	DRIFT OF 50	6" O.C.	3000
GROUNDCOVERS		ARCTOSTAPHYLOS UVA-URSI	KINNICKINNICK	1 GALLON	18" O.C.	4650
		FRAGRARIA CHILOENSIS	BEACH STRAWBERRY	1 GALLON	24" O.C.	1775
		MAHONIA REPANS	CREEPING MAHONIA	1 GALLON	24" O.C.	175
SEED MIX		NATIVE GRASS SEED MIX	NATIVE GRASS SEED MIX	APP. RATE 2 LB/1000 SF		78 LBS.
		WOODLANDS SEED MIX	WOODLANDS SEED MIX	APP. RATE 1 LB/1000 SF		8 LBS.

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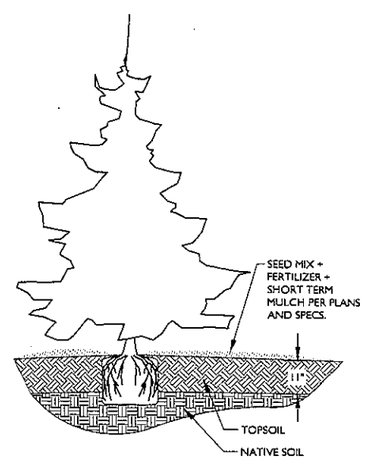
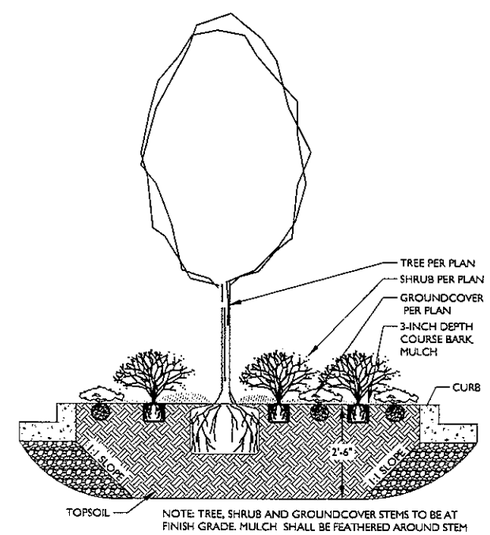


CONIFER PLANTING (2 / 6.06)
(NOT TO SCALE)



MEDIAN STRIP PLANTING (3 / 6.06)
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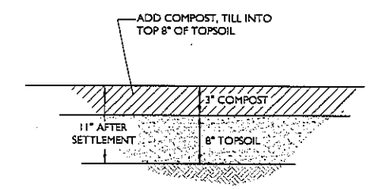
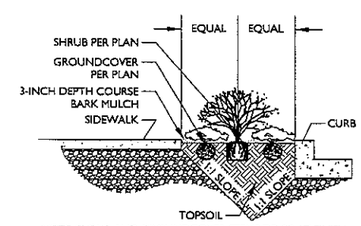


TOPSOIL AMENDMENT (1 / 6.06)
(NOT TO SCALE)



AMENITY STRIP PLANTING (4 / 6.06)
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CURTIS LAPIERRE
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PROJECT INFORMATION
WOODINVILLE–DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
LANDSCAPE PLAN

DATE: March 2011	CHECKED BY: CRL
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SHEET X OF X	
DRAWING NO.: 6.06	

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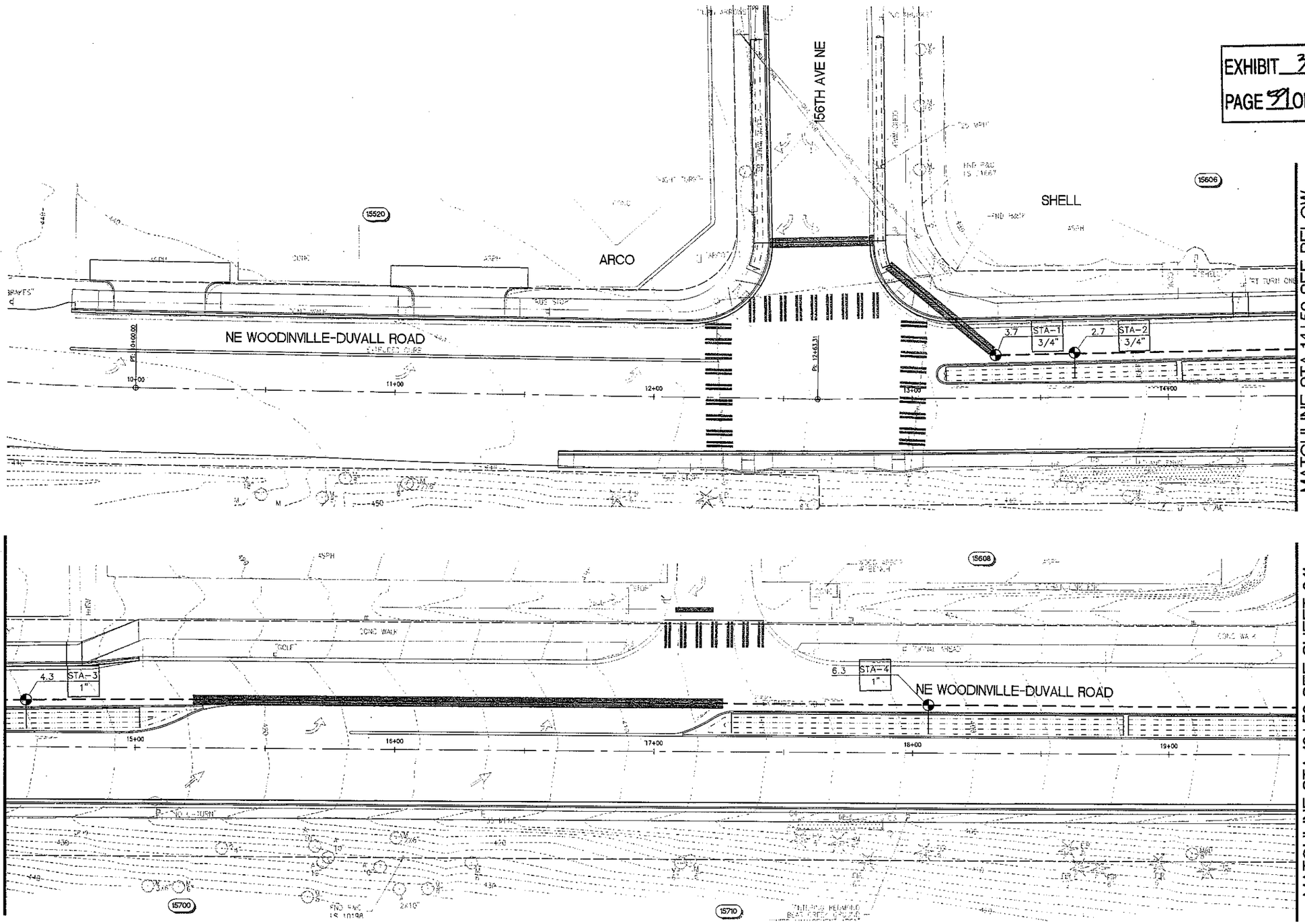
EXHIBIT 3
PAGE 91 OF 114



IRRIGATION KEY

- BALL/GATE VALVE
- QUICK COUPLER ON TRIPLE SWING JOINT
- AUTOMATIC VALVE
- X.X STA-# X" — AUTOMATIC VALVE CALLOUT WITH STATION NUMBER, VALVE SIZE AND DESIGNED GPM
- CONTROLLER (RAINBIRD ESP-LXMEF)
- WATER METER (3/4 INCH)
- BACKFLOW PREVENTER (FEBCO 850U)
- MASTER VALVE & FLOW SENSOR
- MAINLINE (1-1/2 INCH, PVC SCH. 40)
- LATERALS (PVC CLASS 200)
- SLEEVE (2X LINE(S) WITHIN SLEEVE)
- DRIPLINE (0.6 GPH, 12" O.C. EMITTERS, 24" O.C. DRIPPERLINE SPACING)

NOTE: IRRIGATION PLANS ARE DIAGRAMMATIC, PLACE MAINLINE AND OTHER COMPONENTS 6" OFF OF BACKSIDE OF CURB IN AMENITY STRIP OR MEDIAN, TYP.

Preliminary - Not For Construction

20' 0' 20' 40'
SCALE IN FEET

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WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
IRRIGATION PLAN

DATE: March 2011	CHECKED BY: CRL
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DRAWN BY: TLE	SCALE: 1"=20'
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DRAWING NO.: 6.10	

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EXHIBIT 3
PAGE 10 OF 15

MATCHLINE STA 19+50 SEE SHEET 6.10

NE OLD WOODINVILLE-DUVALL ROAD

CONTROLLER 1

STA-5 1" 6.0

STA-6 1" 6.3

20+00 21+00 22+00 23+00 24+00

NE WOODINVILLE-DUVALL ROAD

MATCHLINE STA 24+50 SEE BELOW

MATCHLINE STA 24+50 SEE ABOVE

160TH AVE NE PRIVATE ROAD

25+00 26+00 27+00 28+00 29+00

NE WOODINVILLE-DUVALL ROAD

160TH AVE NE

PRIVATE ROAD

16029

MATCHLINE STA 29+50 SEE SHEET 6.12

IRRIGATION KEY

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DESIGN OPTION:
ADDING DRIPLINE TO AMENITY STRIP/PLANTER STRIPS FOR AREAS NOT CURRENTLY WITH DRIPLINE WILL ADD APPROXIMATELY $7500 FOR 5260LF OF ADDITIONAL DRIPLINE, 2700LF OF ADDITIONAL LATERAL LINE AND 12 ADDITIONAL DRIP ZONE VALVES.

Preliminary - Not For Construction

20' 0' 20' 40'
SCALE IN FEET

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PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
IRRIGATION PLAN

DATE: March 2011	CHECKED BY: CRL
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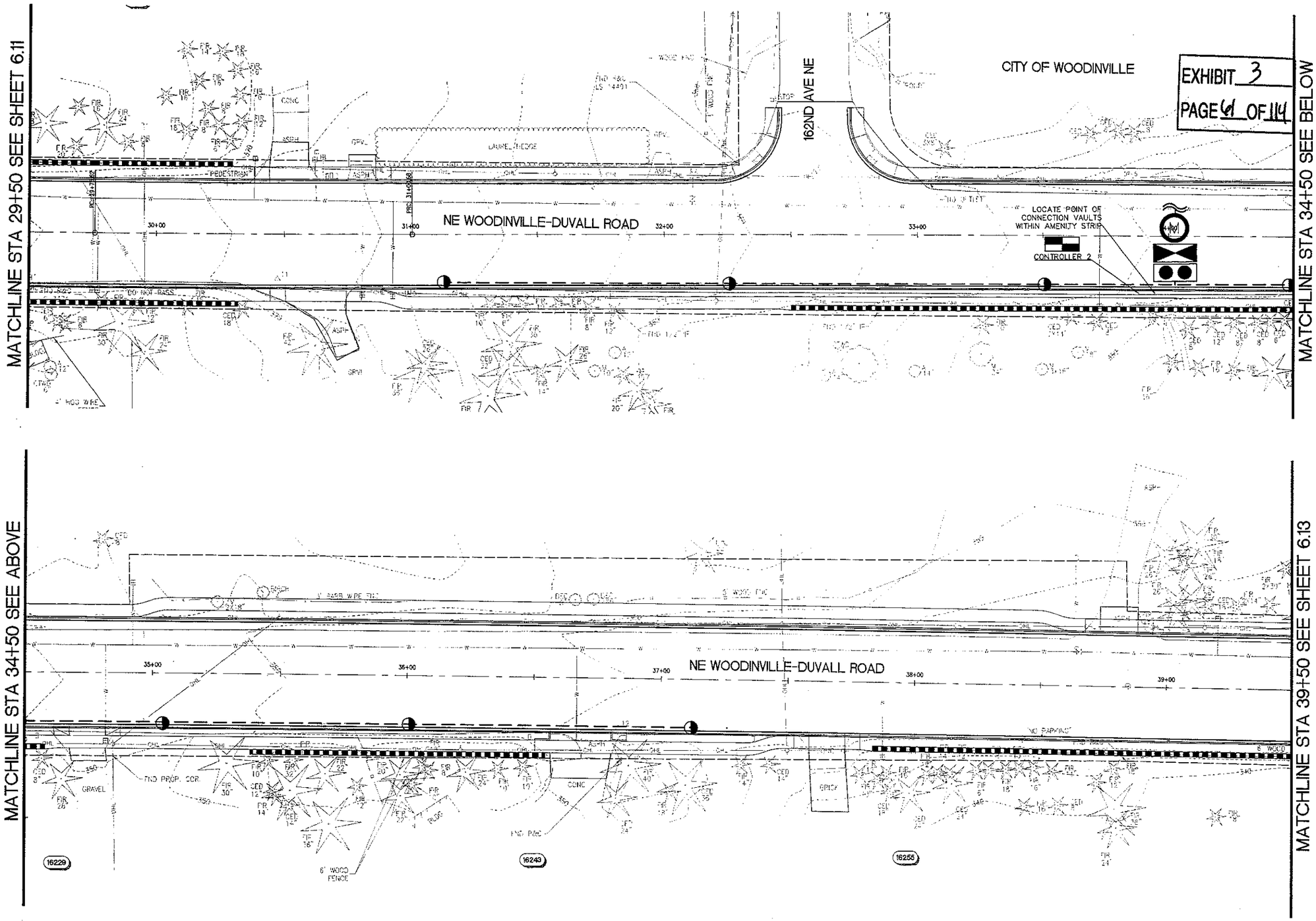
DRAWN BY: TLE	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 6.11	

Plotted: Oct 17, 2011 - 5:00pm jeffr K:\project\31400\31423\Dwg\6.10.dwg Layout Name: 6.11



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SHEET X OF X	
DRAWING NO.: 6.12	

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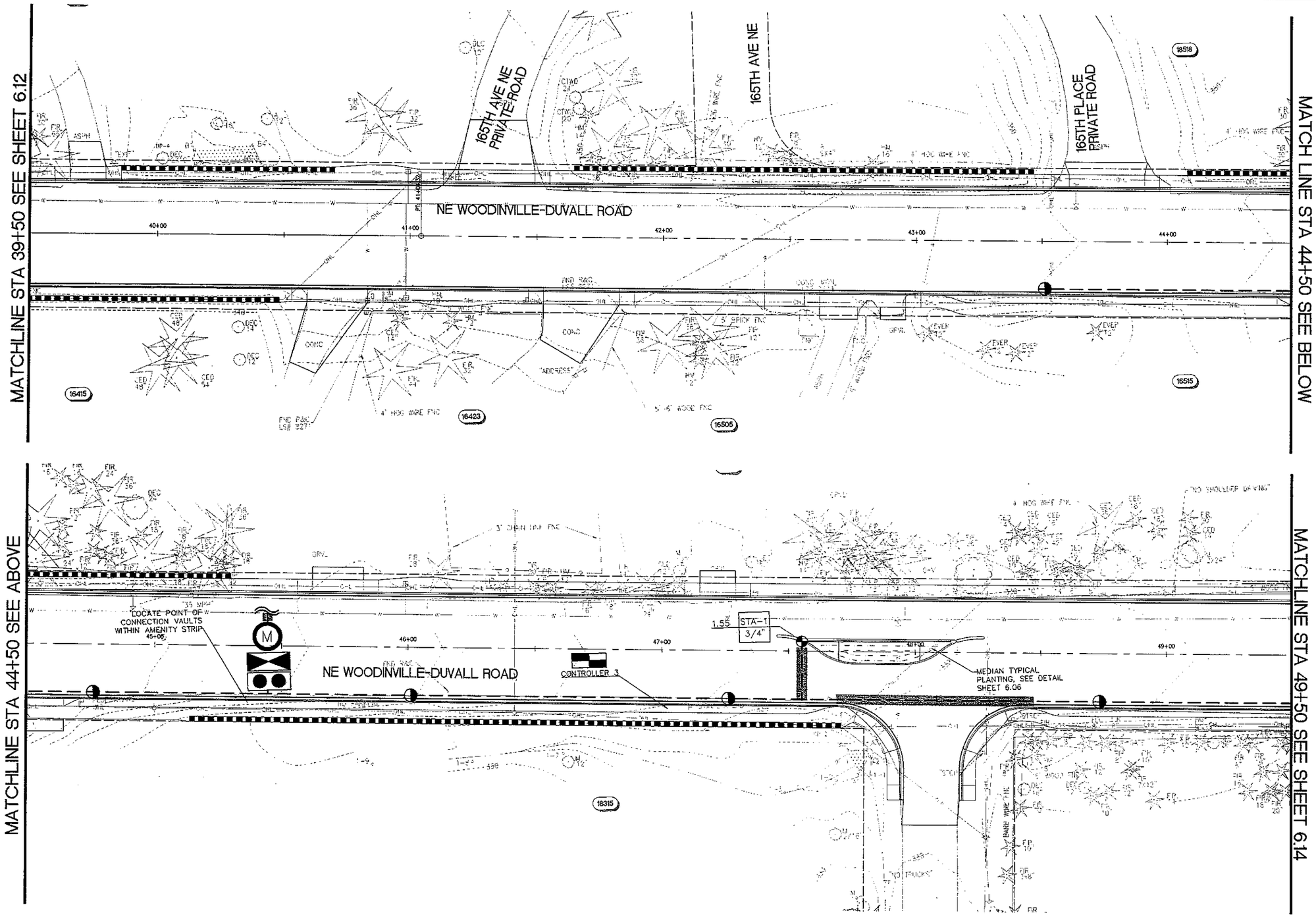

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EXHIBIT 3
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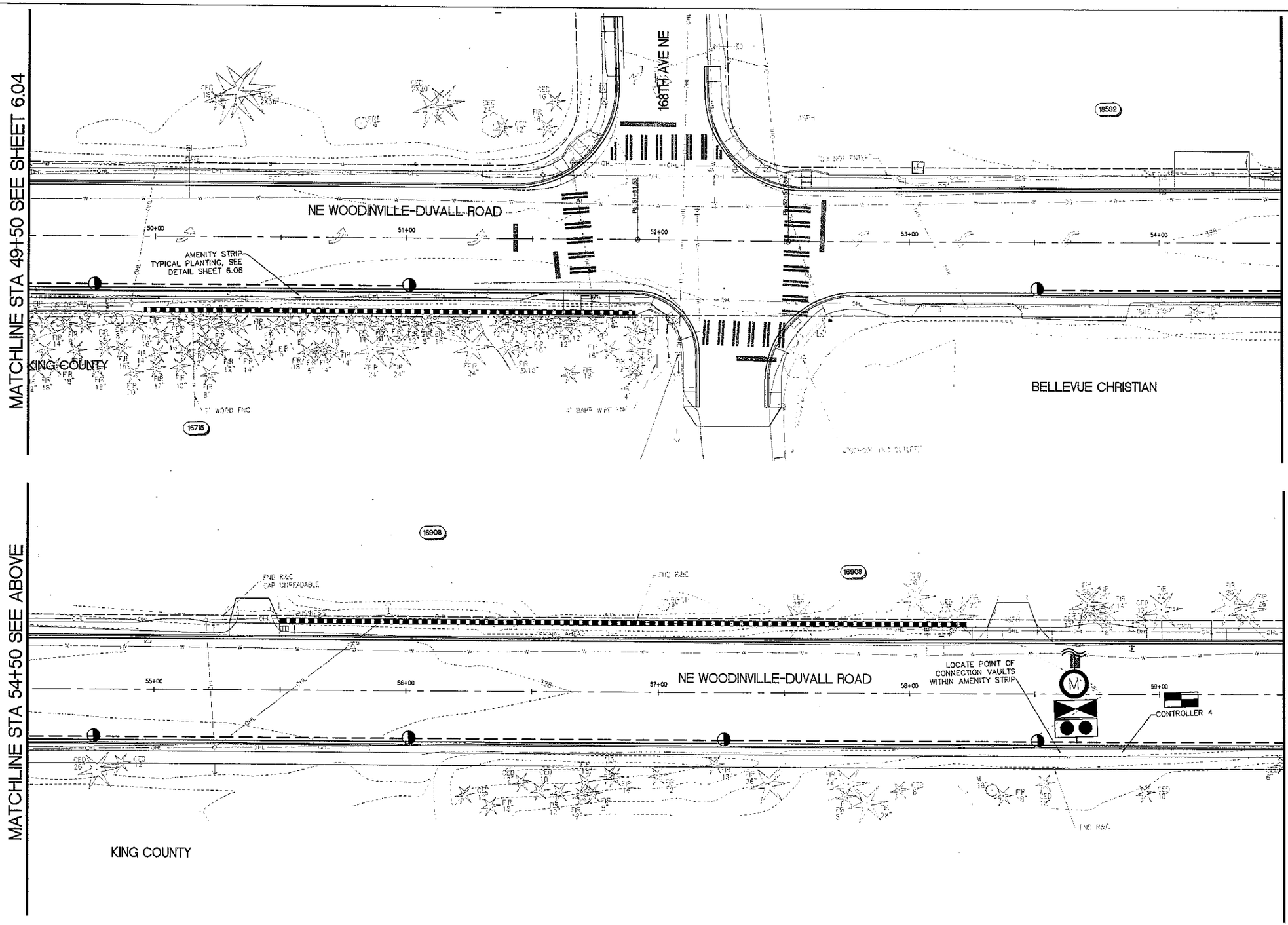

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EXHIBIT 3
PAGE 63 OF 14

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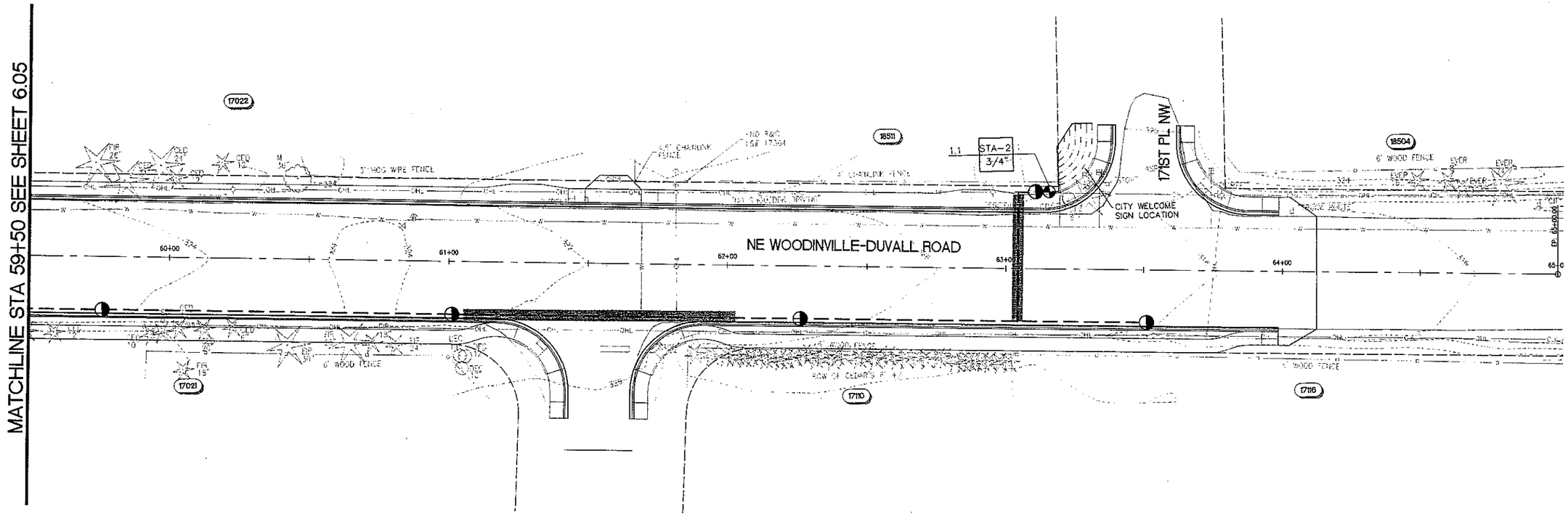
PAGE 64 OF 114



IRRIGATION KEY

- BALL/GATE VALVE
- QUICK COUPLER ON TRIPLE SWING JOINT
- AUTOMATIC VALVE
- X.X STA-# / X" — AUTOMATIC VALVE CALLOUT WITH STATION NUMBER, VALVE SIZE AND DESIGNED GPM
- CONTROLLER (RAINBIRD ESP-LXMEF)
- WATER METER (3/4 INCH)
- BACKFLOW PREVENTER (FEBCO 850U)
- MASTER VALVE & FLOW SENSOR
- MAINLINE (1-1/2 INCH, PVC SCH. 40)
- LATERALS (PVC CLASS 200)
- SLEEVE (2X LINE(S) WITHIN SLEEVE)
- DRIPLINE (0.6 GPH, 12" O.C. EMITTERS, 24" O.C. DRIPPERLINE SPACING)

NOTE: IRRIGATION PLANS ARE DIAGRAMMATIC, PLACE MAINLINE AND OTHER COMPONENTS 6" OFF OF BACKSIDE OF CURB IN AMENITY STRIP OR MEDIAN, TYP.

Preliminary - Not For Construction

20' 0' 20' 40'
SCALE IN FEET

otak Incorporated
10230 NE Points Dr #400
Kirkland, Washington 98033
Phone: (425) 822-4446
FAX: (425) 827-9577
WEB: WWW.OTAK.COM

STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
CURTIS LAPIERRE
CERTIFICATE NO. 474

NO.	REVISION	DATE	BY	CK
1				
2				
3				
4				
5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

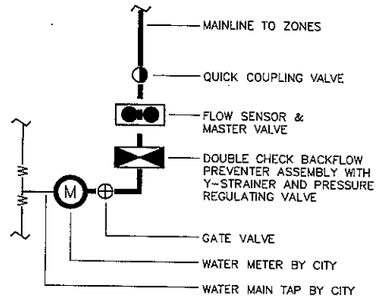
PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
IRRIGATION PLAN

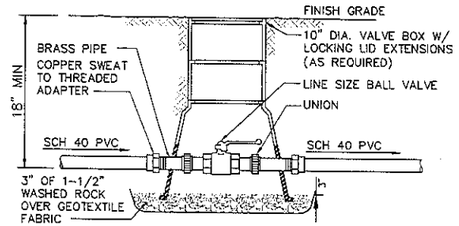
DATE: March 2011	CHECKED BY: CRL
DESIGNED BY: CRL	PROJECT NO.: PW10-XX
DRAWN BY: TLE	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 6.15	

Plotted: Oct 17, 2011 - 5:01pm jeffr K:\project\31400\31423\dwg\6.10.dwg Layout: None 6.15

EXHIBIT 3
PAGE 65 OF 114

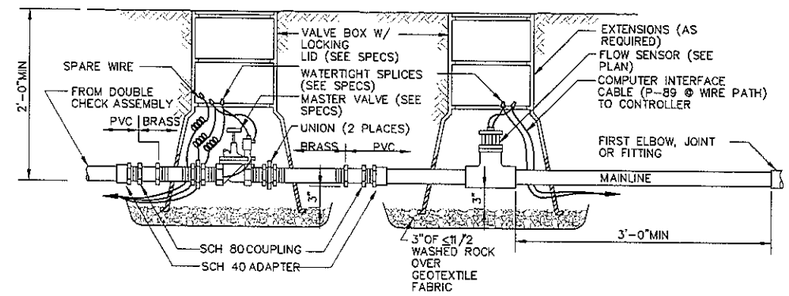


SCHEMATIC POINT OF CONNECTION (1 / 6.16)
(NOT TO SCALE)

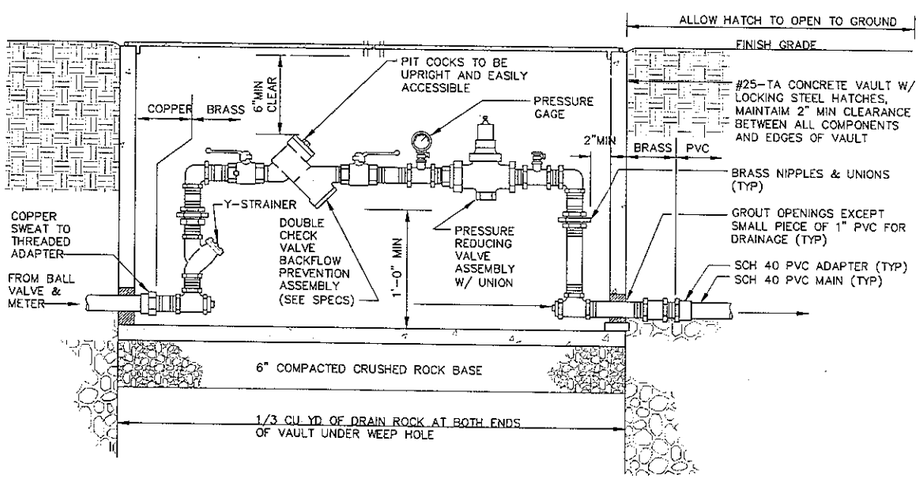


NOTES:
1. USE TEFLON TAPE ON ALL THREADED FITTINGS EXCEPT AT POINT OF CONNECTION.
2. BALL VALVE INSTALLATION UP FLOW FROM THE CROSS-CONNECTION CONTROL DEVICE SHALL RECEIVE ALL RIGID COPPER, TYPE L PIPE AND BRASS OR BRONZE FITTINGS AS REQUIRED.

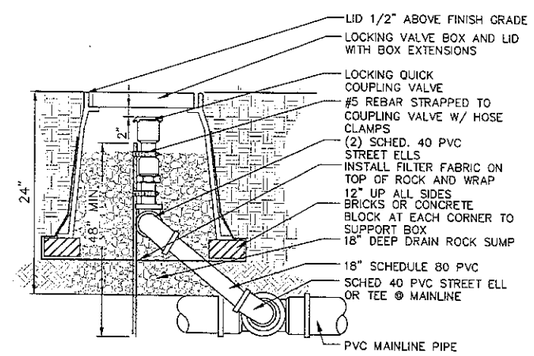
GATE VALVE (2 / 6.16)
(NOT TO SCALE)



MASTER CONTROL VALVE AND FLOW SENSOR (3 / 6.16)
(NOT TO SCALE)

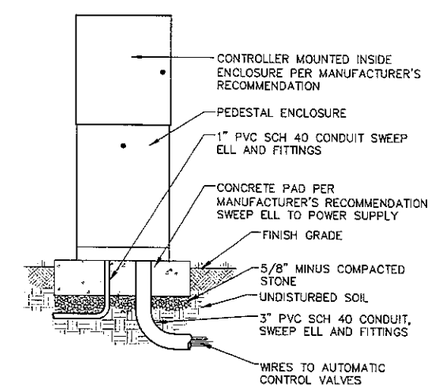


DOUBLE CHECK ASSEMBLY WITH PRESSURE REGULATING VALVE & Y-STRAINER (4 / 6.16)
(NOT TO SCALE)



NOTES
1. WRAP ALL THREADED FITTINGS W/ 5 WRAPS OF TEFLON TAPE.
2. SWING JOINT SIZE SHALL BE SAME SIZE AS VALVE BOTTOM INLET.

QUICK COUPLING VALVE (5 / 6.16)
(NOT TO SCALE)



IRRIGATION CONTROLLER ENCLOSURE (6 / 6.16)
(NOT TO SCALE)

Preliminary - Not For Construction

Plotted: Oct 17, 2011 - 5:01pm jeff: K:\project\31400\31423\Dwg\6.10.dwg Layout Name: 6.16

otak
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Kirkland, Washington 98033
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STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
CURTIS LAFIERRE
CERTIFICATE NO. 474

NO.	REVISION	DATE	BY	CK
1				
2				
3				
4				
5				

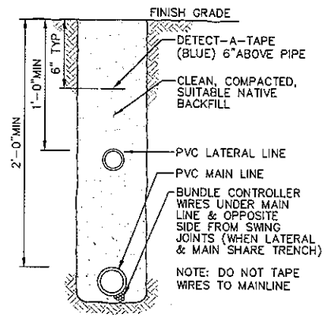
CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

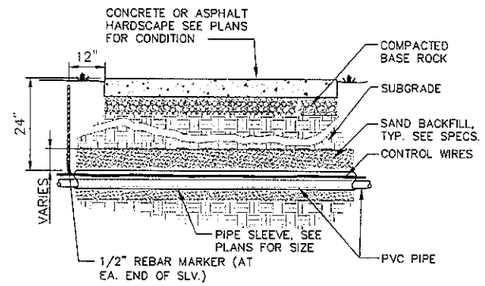
SHEET TITLE:
IRRIGATION DETAILS

DATE: March 2011	CHECKED BY: CRL
DESIGNED BY: CRL	PROJECT NO.: PW10-XX
DRAWN BY: TLE	SCALE: NOT TO SCALE
SHEET X OF X	
DRAWING NO.: 6.16	

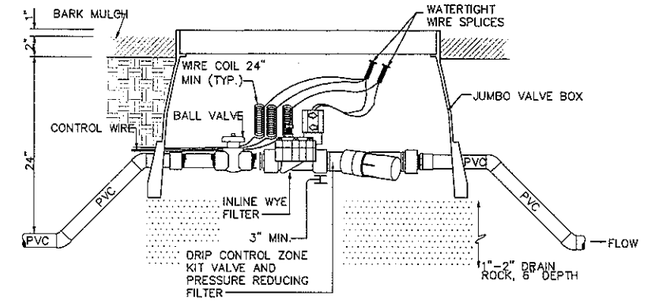
EXHIBIT 3
PAGE 66 OF 114



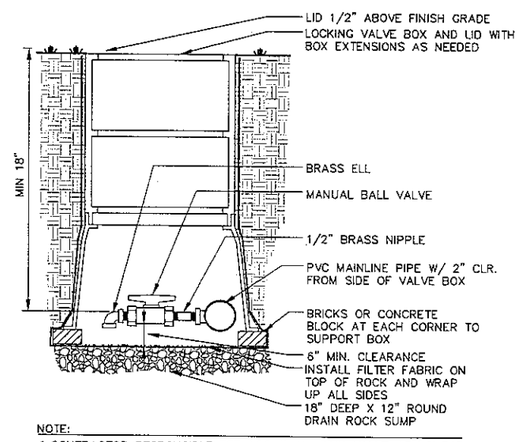
TRENCHING DETAIL
(NOT TO SCALE)
8 / 6.17



IRRIGATION SLEEVES
(NOT TO SCALE)
8 / 6.17

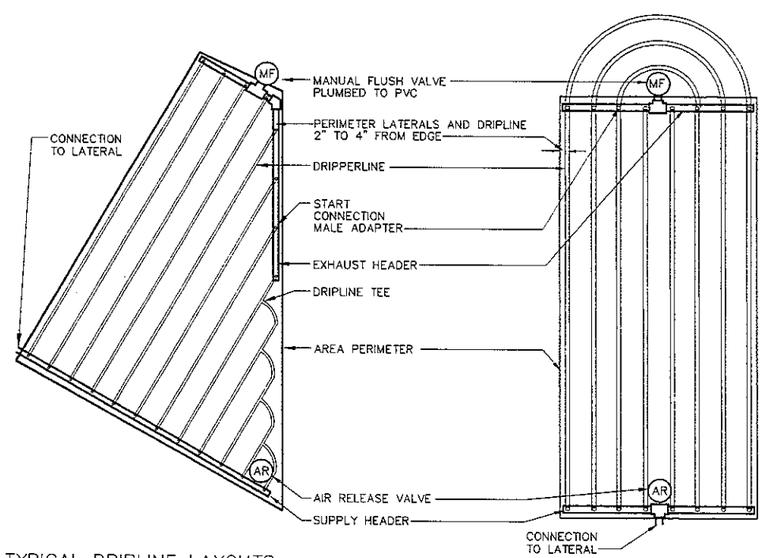


DRIP CONTROL VALVE ASSEMBLY
(NOT TO SCALE)
3 / 6.17

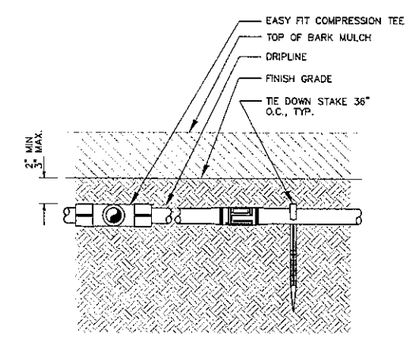


NOTE:
1. CONTRACTOR RESPONSIBLE FOR LOCATING DRAIN VALVE AT LOWEST POINT OF MAINLINE TO ENSURE POSITIVE DRAINAGE.
2. ALLOW FOR 1" CLEARANCE FROM HOLE IN BOX TO TOP OF PIPE.

MANUAL DRAIN VALVE
(NOT TO SCALE)
5 / 6.17



TYPICAL DRIPLINE LAYOUTS
(NOT TO SCALE)
5 / 6.17



TYPICAL DRIPLINE SECTION
(NOT TO SCALE)
5 / 6.17

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STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
CURTIS LAPIERRE
CERTIFICATE NO. 474

NO.	REVISION	DATE	BY	CK
1				
2				
3				
4				
5				

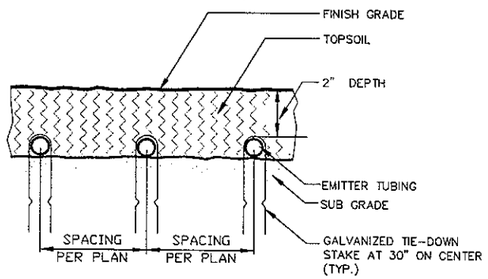
CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

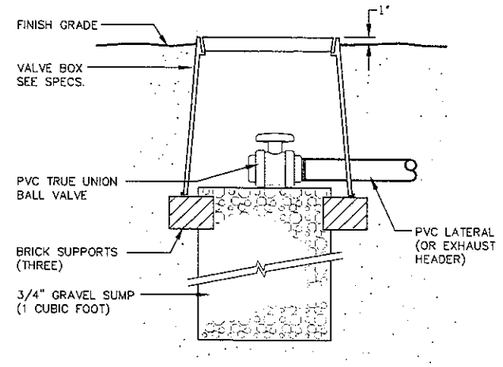
SHEET TITLE:
IRRIGATION DETAILS

DATE: March 2011	CHECKED BY: CRL
DESIGNED BY: CRL	PROJECT NO.: PW10-XX
DRAWN BY: TLE	SCALE: NOT TO SCALE
SHEET X OF X	
DRAWING NO.: 6.17	

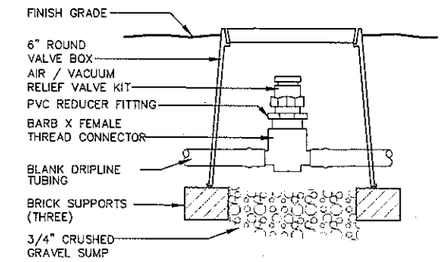
Plotted: Oct 17, 2011 - 5:01pm jeffr K:\project\31400\31423\Dwg\6.10.dwg Layout Name: 6.17



DRIPLINE SUBGRADE INSTALLATION (1 / 6.18)
(NOT TO SCALE)



DRIPLINE FLUSHING CAP (2 / 6.18)
(NOT TO SCALE)



DRIPLINE AIR VACUUM RELIEF (3 / 6.18)
(NOT TO SCALE)

EXHIBIT 3
PAGE 67 OF 114

Preliminary - Not For Construction

Plotted: Oct 17, 2011 - 5:01pm jeffr K:\project\31400\31423\Dwg\6.10.dwg Layout Name: 6.18

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STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
CURTIS LAPIERRE
CERTIFICATE NO. 474

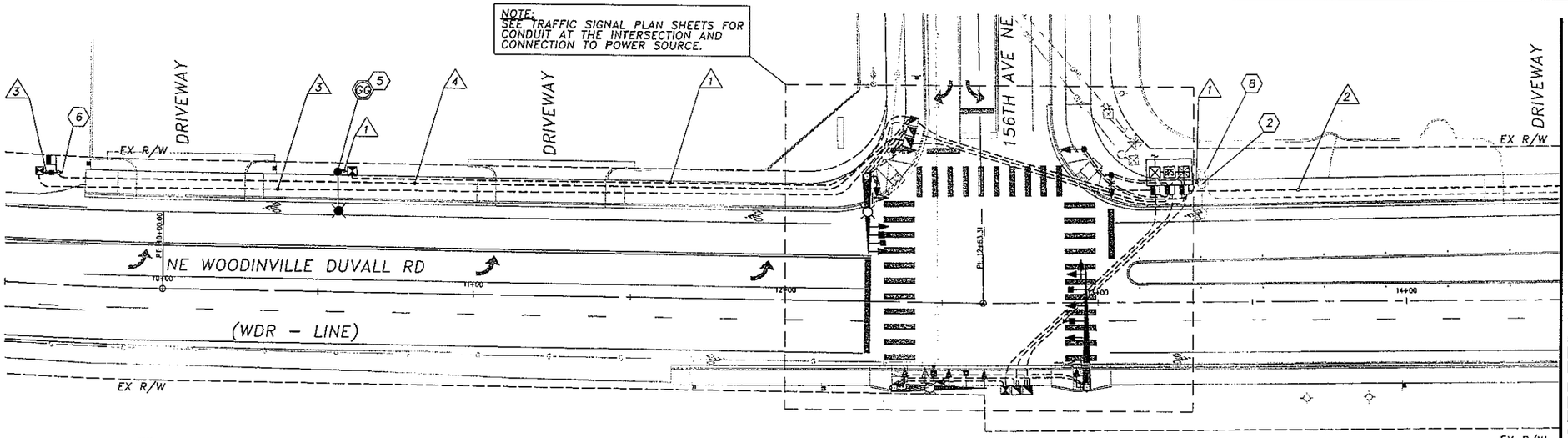
NO.	REVISION	DATE	BY	CK
1				
2				
3				
4				
5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
IRRIGATION DETAILS

DATE: March 2011	CHECKED BY: CRL
DESIGNED BY: CRL	PROJECT NO.: PWID-XX
DRAWN BY: TLE	SCALE: NOT TO SCALE
SHEET X OF X	
DRAWING NO.: 6.18	



ILLUMINATION CONSTRUCTION NOTES

1. PSE TO FURNISH AND INSTALL LUMINAIRE AND ARM ON NEW/RELOCATED/EXISTING WOOD POLE PER PSE STANDARDS AND THE ILLUMINATION POLE SCHEDULE, SHEET 7.07. CONTRACTOR SHALL COORDINATE WITH PSE TO SCHEDULE WORK.
2. EXISTING LUMINAIRE POLE TO REMAIN.
3. RELOCATE EXISTING LUMINAIRE POLE TO NEW LOCATION AT WDR STA 13+30, 41.0' LT.
4. STREET LIGHTING CONDUIT SHALL BYPASS INTERCONNECT JUNCTION BOXES.
5. INSTALL TYPE A STREET LIGHT FOUNDATION PER WSDOT STANDARD PLAN J-28.30-01. FURNISH AND INSTALL TYPE 1 STEEL LIGHT STANDARD PER WSDOT STANDARD PLAN J-28.10-00 AND THE ILLUMINATION POLE SCHEDULE, SHEET 7.07.
6. FURNISH AND INSTALL COMPLETE RADAR SPEED SIGN SYSTEM, INCLUDING POLE, EQUIPMENT, AND AC-POWER COMPONENTS TO THE APPROXIMATE LOCATION SHOWN. COORDINATE FINAL LOCATION WITH THE CITY INSPECTOR. FURNISH AND INSTALL MPH INDUSTRIES SPEED GUARDIAN WITH WHITE WRAPAROUND "YOUR SPEED" SIGN, MOUNTED TO POLE, ANCHOR BOLTS AND FOUNDATION PER MANUFACTURER'S RECOMMENDATION. CONTACT MPH INDUSTRIES AT (888) 689-9222 EXT. 340.
7. INTERCONNECT CONDUIT SHALL BYPASS RADAR SPEED SIGN JUNCTION BOXES.
8. DISCONNECT EXISTING CONDUCTORS IN EXISTING JUNCTION BOX. REMOVE EXISTING CONDUCTORS BACK TO EXISTING POWER SOURCE. SPLICE EXISTING CONDUCTORS TO NEW CONDUCTORS IN EXISTING JUNCTION BOX.
9. RELOCATE EXISTING OVERHEAD WIRE POLE TO NEW LOCATION AT WDR STA 25+72.5, 34.5' LT.

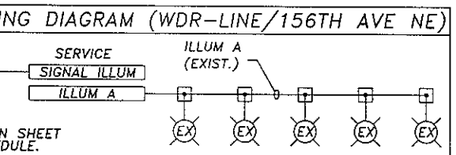
WIRING SCHEDULE

NO.	RACEWAY CONDUIT SIZE	ILLUM #8	FIBER INTER CONNECT 12-SM	RADAR SPEED #8	EQUIP. GRD #8	CONDUIT FILL	ALLOW FILL (26%)
1	2" SCH 80 PVC	2			1	0.168	0.747
2	2" SCH 80 PVC		1		1	0.100	0.747
3	2" SCH 80 PVC			2	1	0.168	0.747
4	2" SCH 80 PVC				1	0.168	0.747

PULL CORD IS REQUIRED IN ALL CONDUITS AND ALL EMPTY CONDUITS SHALL HAVE #8 GROUND/BONDING CONDUCTOR.

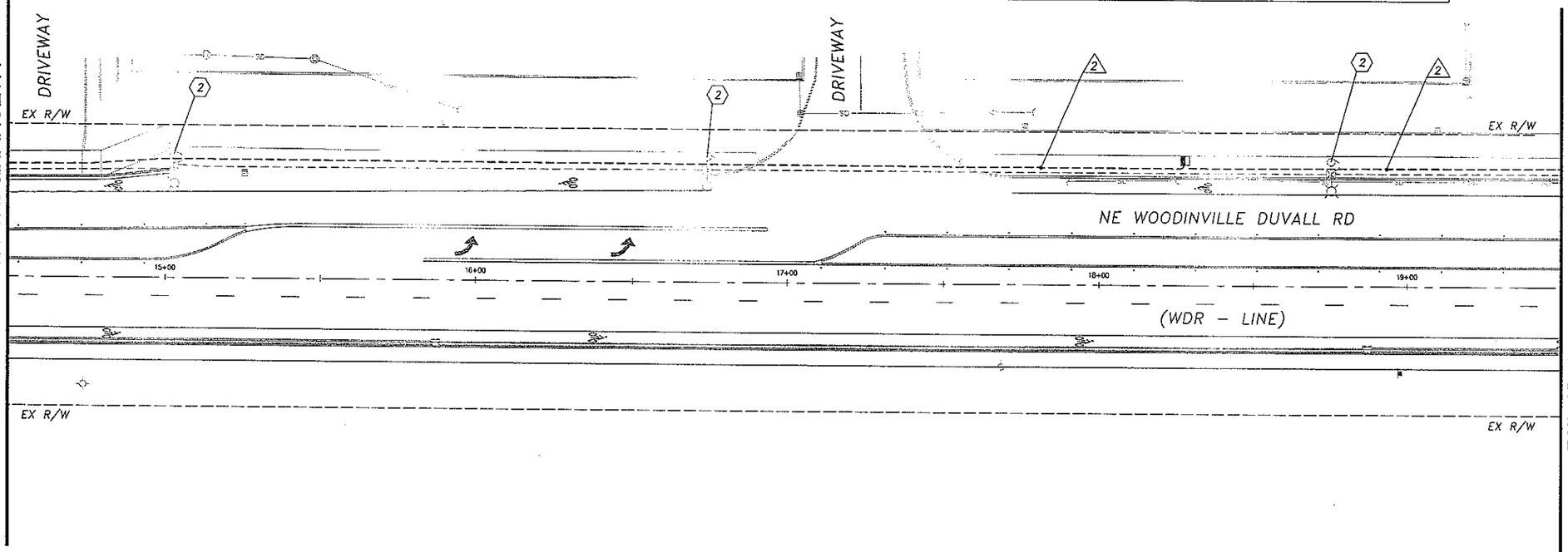
ILLUMINATION WIRING DIAGRAM (WDR-LINE/156TH AVE NE)

SEE TRAFFIC SIGNAL PLAN, SHEETS 8.01 THRU 8.05



NOTE:
SEE TRAFFIC SIGNAL PLAN SHEET 8.32 FOR BREAKER SCHEDULE.

EXHIBIT 3
PAGE 68 OF 114



ILLUMINATION LEGEND

EXIST.	NEW	DESCRIPTION
		JUNCTION BOX TYPE 1,2,8
		EXISTING LUMINAIRE
		TYPE 1 LIGHT STANDARD
		LUMINAIRE
		UTILITY POLE
		RADAR SPEED SIGN
		CONDUIT/CONDUCTOR
		CONTROLLER CABINET
		SERVICE CABINET
		CONSTRUCTION NOTE
		POLE ID
		WIRE NOTE

20' 0' 20' 40'
SCALE IN FEET

Transportation Engineering NorthWest, LLC
816 6TH STREET SOUTH • KIRKLAND, WA 98033
PHONE: (206) 817-9400 • FAX: (425) 889-8369
CONTACT: CHRIS BICKET, P.E.

PRELIMINARY DRAFT

CHRISTOPHER T. BICKET STATE OF WASHINGTON 38885 REGISTERED PROFESSIONAL ENGINEER

P.E. STAMP BOX

NO.	REVISION	DATE	BY	CK
1				
2				
3				
4				
5				

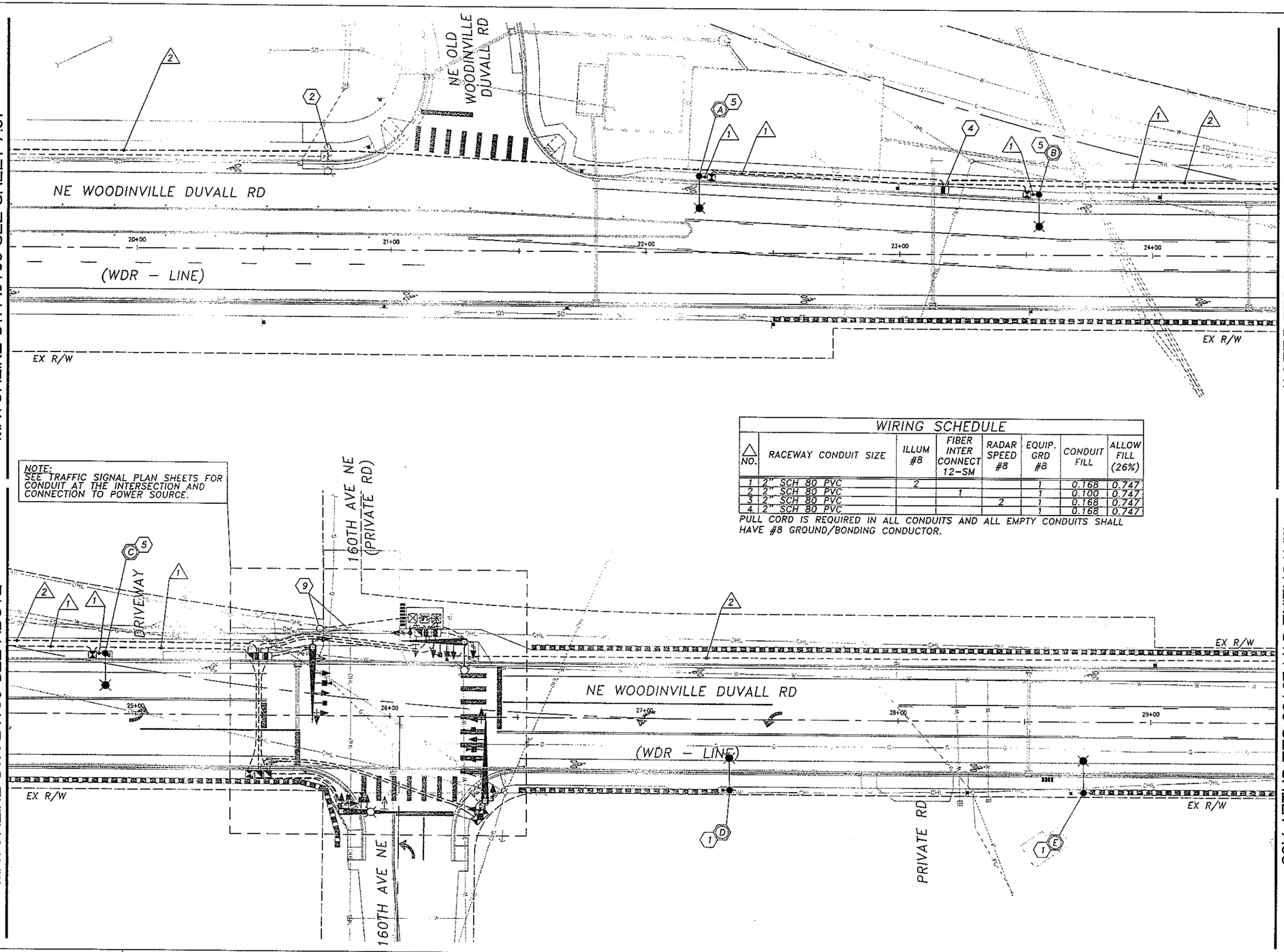
CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
ILLUMINATION AND INTERCONNECT PLAN

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 7.01	

Plotted: Oct 13, 2011 - 9:09am Erik Preston C:\Users\Erik Preston\Documents\TENW ACTIVE\Design\Woodinville-Duvall Road Widening\CAD\WDR Master Illum.dwg Layout Name: 7.01



NOTE:
SEE TRAFFIC SIGNAL PLAN SHEETS FOR CONDUIT AT THE INTERSECTION AND CONNECTION TO POWER SOURCE.

ILLUMINATION CONSTRUCTION NOTES

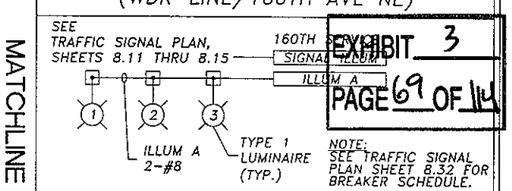
1. PSE TO FURNISH AND INSTALL LUMINAIRE AND ARM ON NEW/RELOCATED/EXISTING WOOD POLE PER PSE STANDARDS AND THE ILLUMINATION POLE SCHEDULE, SHEET 7.07. CONTRACTOR SHALL COORDINATE WITH PSE TO SCHEDULE WORK.
2. EXISTING LUMINAIRE POLE TO REMAIN.
3. RELOCATE EXISTING LUMINAIRE POLE TO NEW LOCATION AT WDR STA 13+30, 41.0' LT.
4. STREET LIGHTING CONDUIT SHALL BYPASS INTERCONNECT JUNCTION BOXES.
5. INSTALL TYPE A STREET LIGHT FOUNDATION PER WSDOT STANDARD PLAN J-28.30-01. FURNISH AND INSTALL TYPE 1 STEEL LIGHT STANDARD PER WSDOT STANDARD PLAN J-28.10-00 AND THE ILLUMINATION POLE SCHEDULE, SHEET 7.07.
6. FURNISH AND INSTALL COMPLETE RADAR SPEED SIGN SYSTEM, INCLUDING POLE, EQUIPMENT, AND AC-POWER COMPONENTS TO THE APPROXIMATE LOCATION SHOWN. COORDINATE FINAL LOCATION WITH THE CITY INSPECTOR. FURNISH AND INSTALL MPH INDUSTRIES SPEED GUARDIAN WITH WHITE WRAPAROUND "YOUR SPEED" SIGN, MOUNTED TO POLE, ANCHOR BOLTS AND FOUNDATION PER MANUFACTURER'S RECOMMENDATION. CONTACT MPH INDUSTRIES AT (888) 689-9222 EXT. 340.
7. INTERCONNECT CONDUIT SHALL BYPASS RADAR SPEED SIGN JUNCTION BOXES.
8. DISCONNECT EXISTING CONDUCTORS IN EXISTING JUNCTION BOX. REMOVE EXISTING CONDUCTORS BACK TO EXISTING POWER SOURCE. SPLICE EXISTING CONDUCTORS TO NEW CONDUCTORS IN EXISTING JUNCTION BOX.
9. RELOCATE EXISTING OVERHEAD WIRE POLE TO NEW LOCATION AT WDR STA 25+72.5, 34.5' LT.

WIRING SCHEDULE

NO.	RACEWAY CONDUIT SIZE	ILLUM #8	FIBER INTER CONNECT 12-SM	RADAR SPEED #8	EQUIP. GRD #8	CONDUIT FILL	ALLOW FILL (26%)
1	2" SCH 80 PVC	2			1	0.168	0.747
2	2" SCH 80 PVC		1		1	0.100	0.747
3	2" SCH 80 PVC			2	1	0.168	0.747
4	2" SCH 80 PVC				1	0.168	0.747

PULL CORD IS REQUIRED IN ALL CONDUITS AND ALL EMPTY CONDUITS SHALL HAVE #8 GROUND/BONDING CONDUCTOR.

ILLUMINATION WIRING DIAGRAM (WDR-LINE/160TH AVE NE)



NOTE:
SEE TRAFFIC SIGNAL PLAN SHEET 8.32 FOR BREAKER SCHEDULE.

EXHIBIT 3
PAGE 69 OF 114

ILLUMINATION LEGEND

EXIST.	NEW	DESCRIPTION
		JUNCTION BOX TYPE 1,2,8
		EXISTING LUMINAIRE
		TYPE 1 LIGHT STANDARD
		LUMINAIRE
		UTILITY POLE
		RADAR SPEED SIGN
		CONDUIT/CONDUCTOR
		CONTROLLER CABINET
		SERVICE CABINET
		CONSTRUCTION NOTE
		POLE ID
		WIRE NOTE

20' 0' 20' 40'
SCALE IN FEET

Transportation Engineering NorthWest, LLC
816 6TH STREET SOUTH • KIRKLAND, WA 98033
PHONE: (206) 817-9400 • FAX: (425) 889-8369
CONTACT: CHRIS BICKET, P.E.

PRELIMINARY

P.E. STAMP BOX

NO.	REVISION	DATE	BY	CK
1				
2				
3				
4				
5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

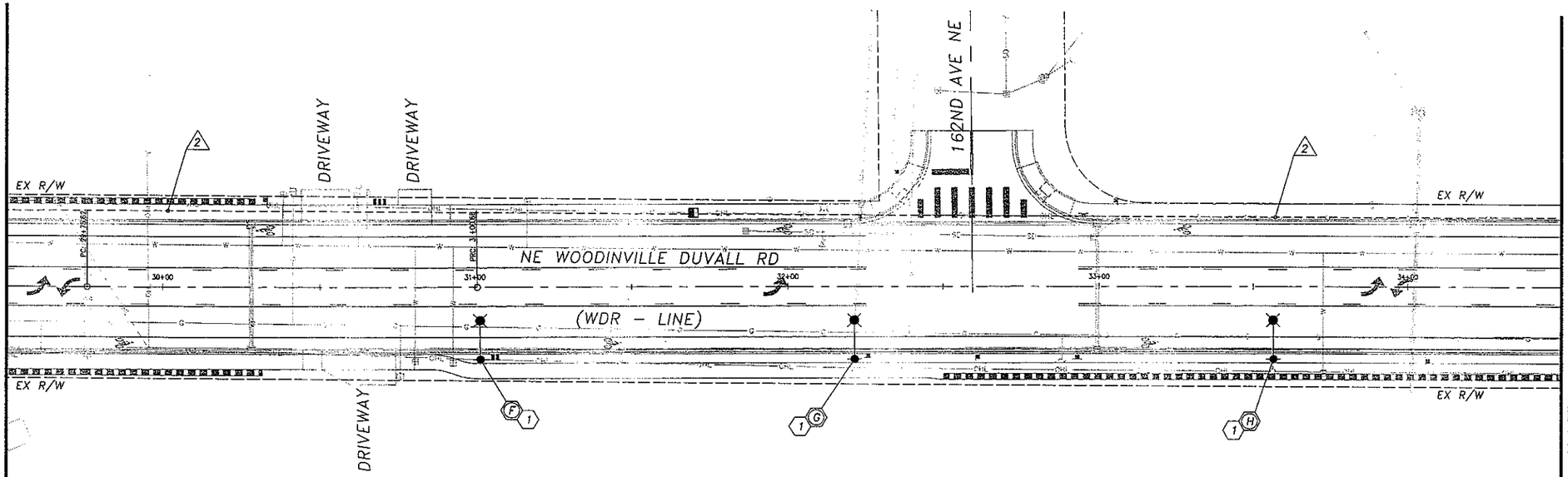
PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
ILLUMINATION AND INTERCONNECT PLAN

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 7.02	

Plotted: Oct 13, 2011 – 9:11am Erik Preston C:\Users\Erik.Preston\Documents\TENW ACTIVE\Design\Woodinville-Duvall Road Widening\CAD\WDR Master Illum.dwg Layout Name: 7.02

MATCHLINE STA 29+50 SEE SHEET 7.02



MATCHLINE STA 34+50 SEE BELOW

ILLUMINATION CONSTRUCTION NOTES

1. PSE TO FURNISH AND INSTALL LUMINAIRE AND ARM ON NEW/RELOCATED/EXISTING WOOD POLE PER PSE STANDARDS AND THE ILLUMINATION POLE SCHEDULE, SHEET 7.07. CONTRACTOR SHALL COORDINATE WITH PSE TO SCHEDULE WORK.
2. EXISTING LUMINAIRE POLE TO REMAIN.
3. RELOCATE EXISTING LUMINAIRE POLE TO NEW LOCATION AT WDR STA 13+30, 41.0' LT.
4. STREET LIGHTING CONDUIT SHALL BYPASS INTERCONNECT JUNCTION BOXES.
5. INSTALL TYPE A STREET LIGHT FOUNDATION PER WSDOT STANDARD PLAN J-28.30-01. FURNISH AND INSTALL TYPE 1 STEEL LIGHT STANDARD PER WSDOT STANDARD PLAN J-28.10-00 AND THE ILLUMINATION POLE SCHEDULE, SHEET 7.07.
6. FURNISH AND INSTALL COMPLETE RADAR SPEED SIGN SYSTEM, INCLUDING POLE, EQUIPMENT, AND AC-POWER COMPONENTS TO THE APPROXIMATE LOCATION SHOWN. COORDINATE FINAL LOCATION WITH THE CITY INSPECTOR. FURNISH AND INSTALL MPH INDUSTRIES SPEED GUARDIAN WITH WHITE WRAPAROUND "YOUR SPEED" SIGN, MOUNTED TO POLE, ANCHOR BOLTS AND FOUNDATION PER MANUFACTURER'S RECOMMENDATION. CONTACT MPH INDUSTRIES AT (888) 689-9222 EXT. 340.
7. INTERCONNECT CONDUIT SHALL BYPASS RADAR SPEED SIGN JUNCTION BOXES.
8. DISCONNECT EXISTING CONDUCTORS IN EXISTING JUNCTION BOX. REMOVE EXISTING CONDUCTORS BACK TO EXISTING POWER SOURCE. SPLICE EXISTING CONDUCTORS TO NEW CONDUCTORS IN EXISTING JUNCTION BOX.
9. RELOCATE EXISTING OVERHEAD WIRE POLE TO NEW LOCATION AT WDR STA 25+72.5, 34.5' LT.

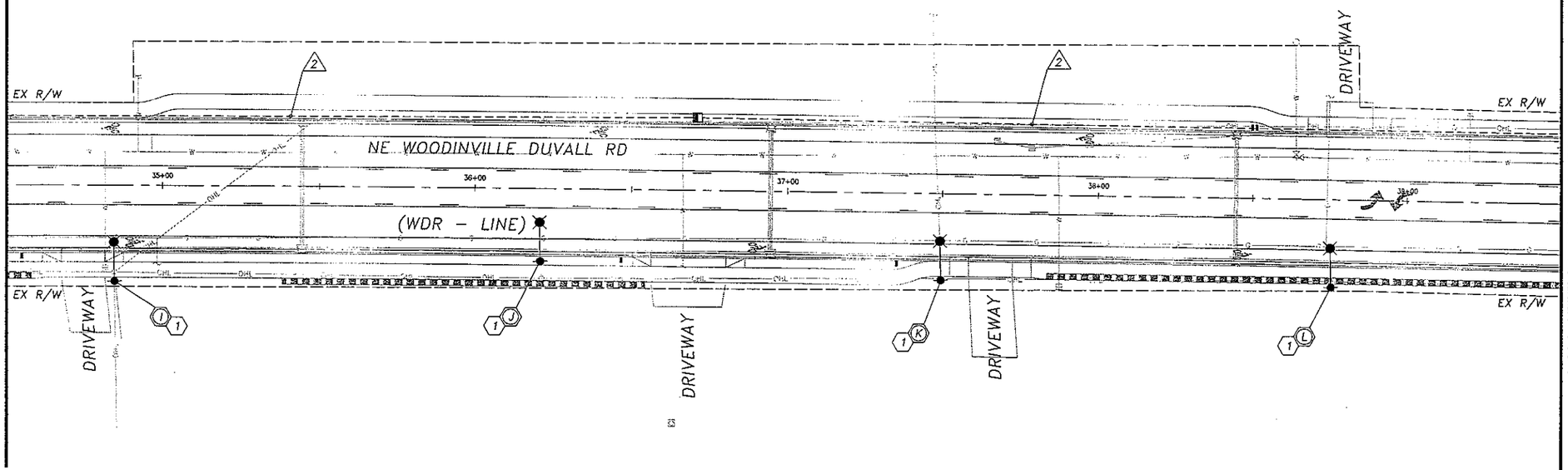
EXHIBIT 3
PAGE 70 OF 114

WIRING SCHEDULE

NO.	RACEWAY CONDUIT SIZE	ILLUM #8	FIBER INTER CONNECT 12-SM	RADAR SPEED #8	EQUIP. GRD #8	CONDUIT FILL	ALLOW FILL (26%)
1	2" SCH 80 PVC	2			1	0.168	0.747
2	2" SCH 80 PVC		1		1	0.100	0.747
3	2" SCH 80 PVC			2	1	0.168	0.747
4	2" SCH 80 PVC				1	0.168	0.747

PULL CORD IS REQUIRED IN ALL CONDUITS AND ALL EMPTY CONDUITS SHALL HAVE #8 GROUND/BONDING CONDUCTOR.

MATCHLINE STA 34+50 SEE ABOVE



MATCHLINE STA 39+50 SEE SHEET 7.04

ILLUMINATION LEGEND

EXIST.	NEW	DESCRIPTION
		JUNCTION BOX TYPE 1,2,8
		EXISTING LUMINAIRE
		TYPE 1 LIGHT STANDARD
		LUMINAIRE
		UTILITY POLE
		RADAR SPEED SIGN
		CONDUIT/CONDUCTOR
		CONTROLLER CABINET
		SERVICE CABINET
		CONSTRUCTION NOTE
		POLE ID
		WIRE NOTE

20' 0' 20' 40'
SCALE IN FEET

Transportation Engineering NorthWest, LLC
816 6TH STREET SOUTH • KIRKLAND, WA 98033
PHONE: (206) 817-9400 • FAX: (425) 889-8369
CONTACT: CHRIS BICKET, P.E.

PRELIMINARY DO

CHRISTOPHER T. BICKET STATE OF WASHINGTON 40633 REGISTERED PROFESSIONAL ENGINEER

P.E. STAMP BOX

NO.	REVISION	DATE	BY	CK
1				
2				
3				
4				
5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

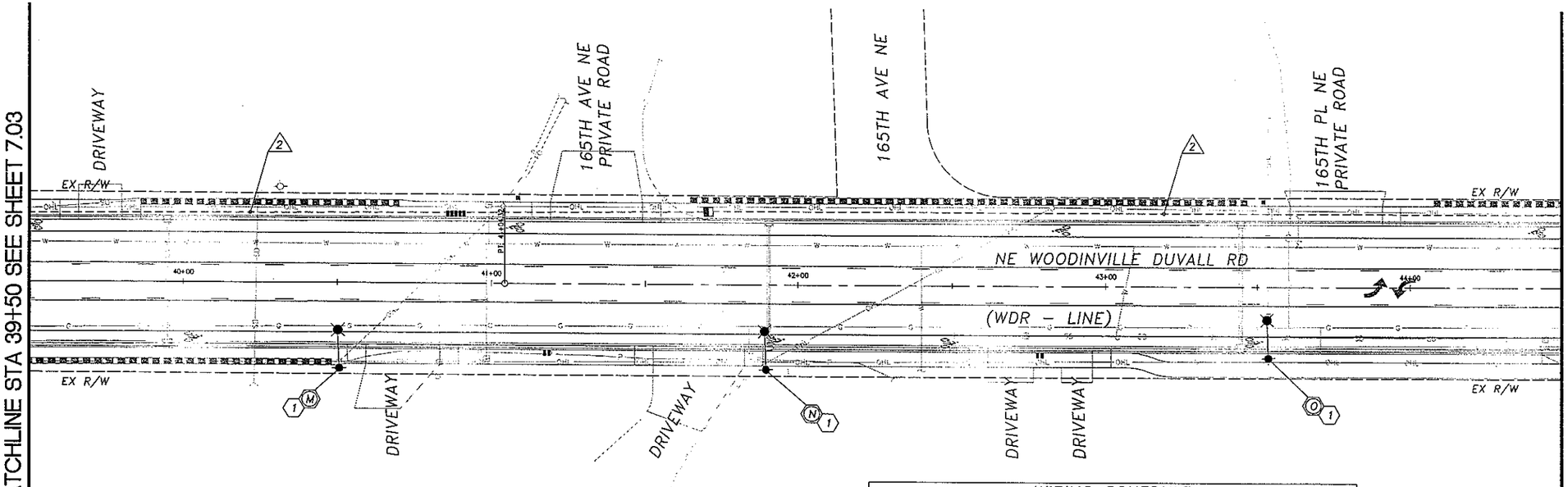
PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
ILLUMINATION AND INTERCONNECT PLAN

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 7.03	

Plotted: Oct 11, 2011 – 1:43pm Erik Preston C:\Users\Erik Preston\Documents\TEAM ACTIVE\Design\Woodinville-Duvall Road Widening\CAD\WDR Master Illum.dwg Layout Name: 7.03

MATCHLINE STA 39+50 SEE SHEET 7.03



MATCHLINE STA 44+50 SEE BELOW

ILLUMINATION CONSTRUCTION NOTES

1. PSE TO FURNISH AND INSTALL LUMINAIRE AND ARM ON NEW/RELOCATED/EXISTING WOOD POLE PER PSE STANDARDS AND THE ILLUMINATION POLE SCHEDULE, SHEET 7.07. CONTRACTOR SHALL COORDINATE WITH PSE TO SCHEDULE WORK.
2. EXISTING LUMINAIRE POLE TO REMAIN.
3. RELOCATE EXISTING LUMINAIRE POLE TO NEW LOCATION AT WDR STA 13+30, 41.0' LT.
4. STREET LIGHTING CONDUIT SHALL BYPASS INTERCONNECT JUNCTION BOXES.
5. INSTALL TYPE A STREET LIGHT FOUNDATION PER WSDOT STANDARD PLAN J-28.30-01. FURNISH AND INSTALL TYPE 1 STEEL LIGHT STANDARD PER WSDOT STANDARD PLAN J-28.10-00 AND THE ILLUMINATION POLE SCHEDULE, SHEET 7.07.
6. FURNISH AND INSTALL COMPLETE RADAR SPEED SIGN SYSTEM, INCLUDING POLE, EQUIPMENT, AND AC-POWER COMPONENTS TO THE APPROXIMATE LOCATION SHOWN. COORDINATE FINAL LOCATION WITH THE CITY INSPECTOR. FURNISH AND INSTALL MPH INDUSTRIES SPEED GUARDIAN WITH WHITE WRAPAROUND "YOUR SPEED" SIGN, MOUNTED TO POLE, ANCHOR BOLTS AND FOUNDATION PER MANUFACTURER'S RECOMMENDATION. CONTACT MPH INDUSTRIES AT (888) 689-9222 EXT. 340.
7. INTERCONNECT CONDUIT SHALL BYPASS RADAR SPEED SIGN JUNCTION BOXES.
8. DISCONNECT EXISTING CONDUCTORS IN EXISTING JUNCTION BOX. REMOVE EXISTING CONDUCTORS BACK TO EXISTING POWER SOURCE. SPLICE EXISTING CONDUCTORS TO NEW CONDUCTORS IN EXISTING JUNCTION BOX.
9. RELOCATE EXISTING OVERHEAD WIRE POLE TO NEW LOCATION AT WDR STA 25+72.5, 34.5' LT.

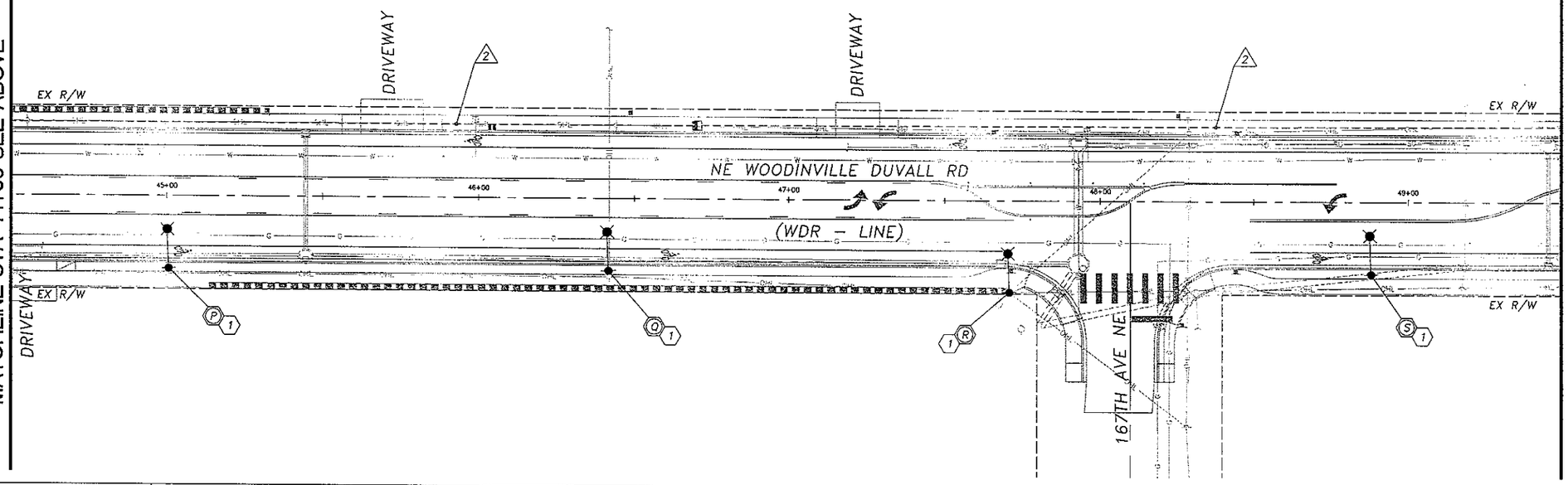
WIRING SCHEDULE

△ NO.	RACEWAY CONDUIT SIZE	ILLUM #8	FIBER INTER CONNECT 12-SM	RADAR SPEED #8	EQUIP. GRD #8	CONDUIT FILL	ALLOW FILL (26%)
1	2" SCH 80 PVC	2			1	0.168	0.747
2	2" SCH 80 PVC		1		1	0.100	0.747
3	2" SCH 80 PVC			2	1	0.168	0.747
4	2" SCH 80 PVC				1	0.168	0.747

PULL CORD IS REQUIRED IN ALL CONDUITS AND ALL EMPTY CONDUITS SHALL HAVE #8 GROUND/BONDING CONDUCTOR.

EXHIBIT 3
PAGE 71 OF 114

MATCHLINE STA 44+50 SEE ABOVE



MATCHLINE STA 49+50 SEE SHEET 7.05

ILLUMINATION LEGEND

EXIST.	NEW	DESCRIPTION
		JUNCTION BOX TYPE 1,2,8
		EXISTING LUMINAIRE
		TYPE 1 LIGHT STANDARD
		LUMINAIRE
		UTILITY POLE
		RADAR SPEED SIGN
		CONDUIT/CONDUCTOR
		CONTROLLER CABINET
		SERVICE CABINET
		CONSTRUCTION NOTE
		POLE ID
		WIRE NOTE

20' 0' 20' 40'
SCALE IN FEET

Transportation Engineering NorthWest, LLC
816 6TH STREET SOUTH • KIRKLAND, WA 98033
PHONE: (206) 817-9400 • FAX: (425) 889-8369
CONTACT: CHRIS BICKET, P.E.

PRELIMINARY DRAFT

P.E. STAMP BOX

NO.	REVISION	DATE	BY	CK
1				
2				
3				
4				
5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

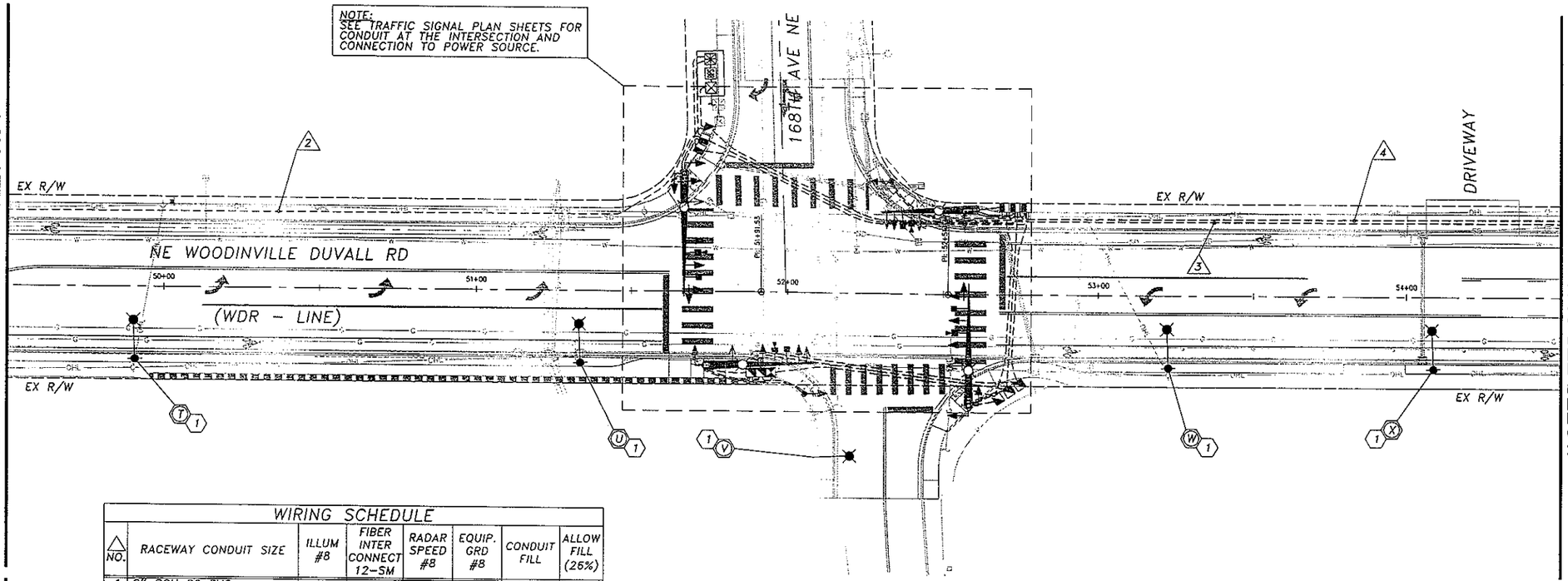
PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
ILLUMINATION AND INTERCONNECT PLAN

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 7.04	

Plotted: Oct 11, 2011 - 1:36pm Erik Preston C:\Users\Erik Preston\Documents\TENW ACTIVE\Design\Woodinville-Duvall Road Widening\CAD\WDR Master Illum.dwg Layout Name: 7.04

MATCHLINE STA 49+50 SEE SHEET 7.04



MATCHLINE STA 54+50 SEE BELOW

ILLUMINATION CONSTRUCTION NOTES

1. PSE TO FURNISH AND INSTALL LUMINAIRE AND ARM ON NEW/RELOCATED/EXISTING WOOD POLE PER PSE STANDARDS AND THE ILLUMINATION POLE SCHEDULE, SHEET 7.07. CONTRACTOR SHALL COORDINATE WITH PSE TO SCHEDULE WORK.
2. EXISTING LUMINAIRE POLE TO REMAIN.
3. RELOCATE EXISTING LUMINAIRE POLE TO NEW LOCATION AT WDR STA 13+30, 41.0' LT.
4. STREET LIGHTING CONDUIT SHALL BYPASS INTERCONNECT JUNCTION BOXES.
5. INSTALL TYPE A STREET LIGHT FOUNDATION PER WSDOT STANDARD PLAN J-28.30-01. FURNISH AND INSTALL TYPE 1 STEEL LIGHT STANDARD PER WSDOT STANDARD PLAN J-28.10-00 AND THE ILLUMINATION POLE SCHEDULE, SHEET 7.07.
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7. INTERCONNECT CONDUIT SHALL BYPASS RADAR SPEED SIGN JUNCTION BOXES.
8. DISCONNECT EXISTING CONDUCTORS IN EXISTING JUNCTION BOX. REMOVE EXISTING CONDUCTORS BACK TO EXISTING POWER SOURCE. SPLICE EXISTING CONDUCTORS TO NEW CONDUCTORS IN EXISTING JUNCTION BOX.
9. RELOCATE EXISTING OVERHEAD WIRE POLE TO NEW LOCATION AT WDR STA 25+72.5, 34.5' LT.

WIRING SCHEDULE

NO.	RACEWAY CONDUIT SIZE	ILLUM #8	FIBER INTER CONNECT 12-SM	RADAR SPEED #8	EQUIP. GRD #8	CONDUIT FILL	ALLOW FILL (26%)
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2	2" SCH 80 PVC		1		1	0.100	0.747
3	2" SCH 80 PVC			2	1	0.168	0.747
4	2" SCH 80 PVC				1	0.168	0.747

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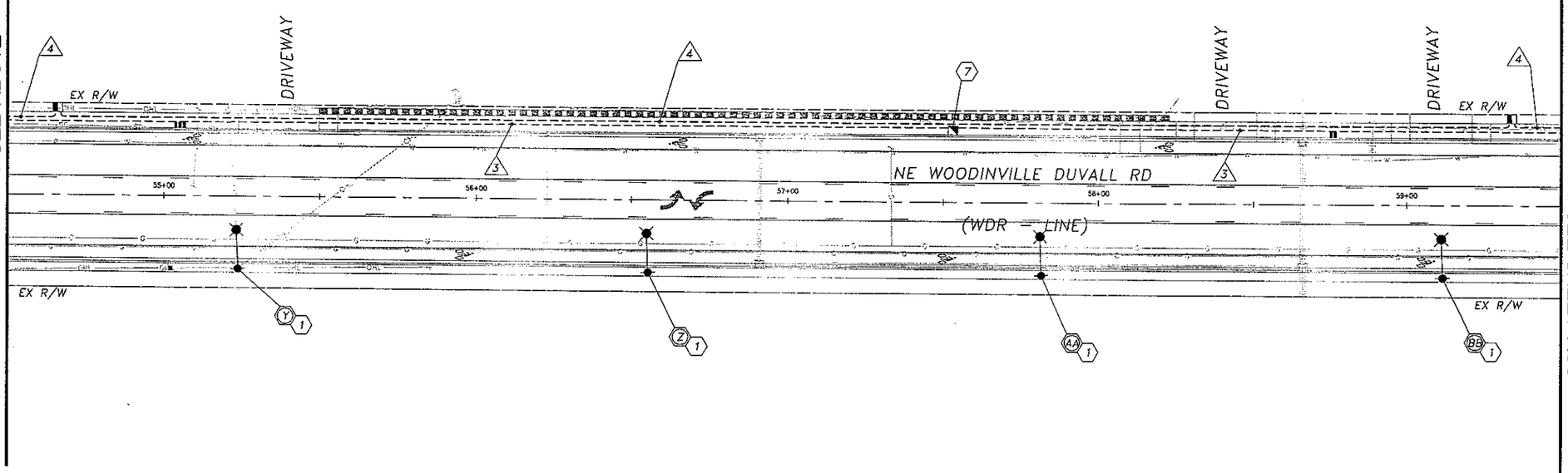
MATCHLINE STA 54+50 SEE ABOVE



MATCHLINE STA 59+50 SEE SHEET 7.06

EXHIBIT 3
PAGE 72 OF 114

ILLUMINATION LEGEND

EXIST.	NEW	DESCRIPTION
		JUNCTION BOX TYPE 1,2,8
		EXISTING LUMINAIRE
		TYPE 1 LIGHT STANDARD
		LUMINAIRE
		UTILITY POLE
		RADAR SPEED SIGN
		CONDUIT/CONDUCTOR
		CONTROLLER CABINET
		SERVICE CABINET
		CONSTRUCTION NOTE
		POLE ID
		WIRE NOTE

20' 0' 20' 40'
SCALE IN FEET

Transportation Engineering NorthWest, LLC
816 6TH STREET SOUTH • KIRKLAND, WA 98033
PHONE: (206) 817-7400 • FAX: (425) 889-8369
CONTACT: CHRIS BICKET, P.E.

PRELIMINARY

P.E. STAMP BOX

NO.	REVISION	DATE	BY	CK
1				
2				
3				
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5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION

WOODINVILLE–DUVALL ROAD WIDENING PROJECT

SHEET TITLE:

ILLUMINATION AND INTERCONNECT PLAN

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 7.05	

Plotted: Oct 11, 2011 – 1:43pm Erik Preston C:\Users\Erik Preston\Documents\FENW ACTIVE\Design\Woodinville-Duvall Road Widening\CAD\WDR Master Illum.dwg Layout Name: 7.05

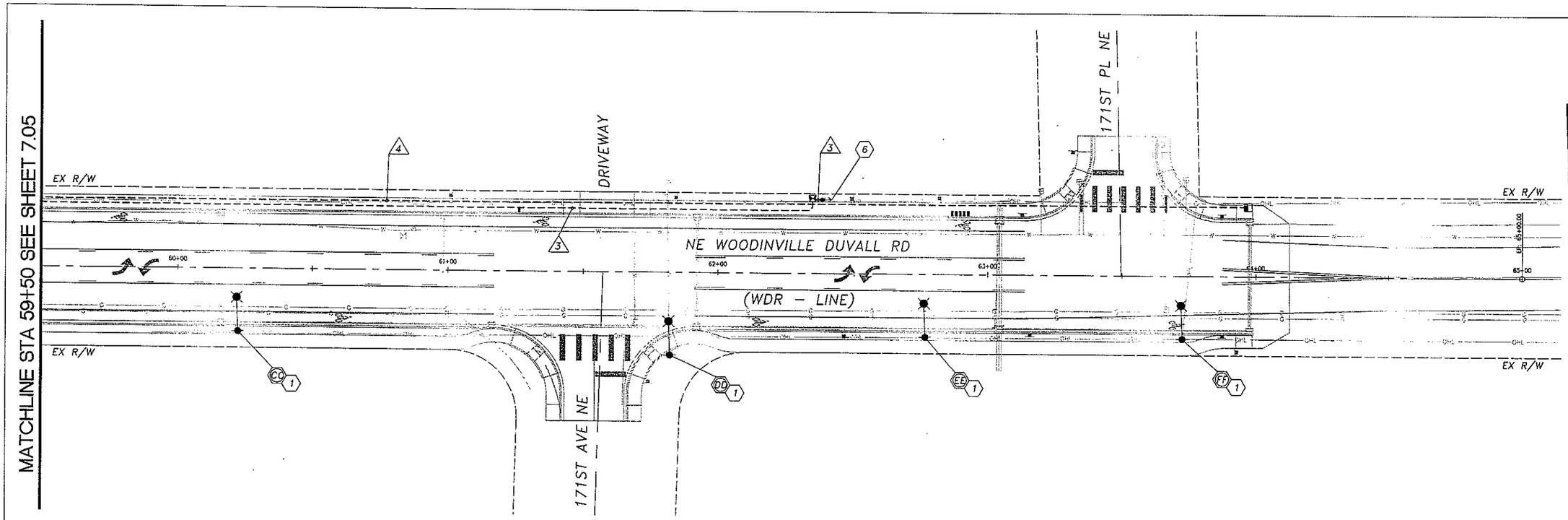

EXHIBIT 3
PAGE 73 OF 114

ILLUMINATION CONSTRUCTION NOTES

1. PSE TO FURNISH AND INSTALL LUMINAIRE AND ARM ON NEW/RELOCATED/EXISTING WOOD POLE PER PSE STANDARDS AND THE ILLUMINATION POLE SCHEDULE, SHEET 7.07. CONTRACTOR SHALL COORDINATE WITH PSE TO SCHEDULE WORK.
2. EXISTING LUMINAIRE POLE TO REMAIN.
3. RELOCATE EXISTING LUMINAIRE POLE TO NEW LOCATION AT WDR STA 13+30, 41.0' LT.
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9. RELOCATE EXISTING OVERHEAD WIRE POLE TO NEW LOCATION AT WDR STA 25+72.5, 34.5' LT.

WIRING SCHEDULE

△ NO.	RACEWAY CONDUIT SIZE	ILLUM #8	FIBER INTER CONNECT 12-SM	RADAR SPEED #8	EQUIP. GRD #8	CONDUIT FILL	ALLOW FILL (26%)
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3	2" SCH 80 PVC			2	1	0.168	0.747
4	2" SCH 80 PVC				1	0.168	0.747

PULL CORD IS REQUIRED IN ALL CONDUITS AND ALL EMPTY CONDUITS SHALL HAVE #8 GROUND/BONDING CONDUCTOR.

ILLUMINATION LEGEND

EXIST.	NEW	DESCRIPTION
		JUNCTION BOX TYPE 1,2,8
		EXISTING LUMINAIRE
		TYPE 1 LIGHT STANDARD
		LUMINAIRE
		UTILITY POLE
		RADAR SPEED SIGN
		CONDUIT/CONDUCTOR
		CONTROLLER CABINET
		SERVICE CABINET
		CONSTRUCTION NOTE
		POLE ID
		WIRE NOTE

20' 0' 20' 40'
SCALE IN FEET

Transportation Engineering NorthWest, LLC
816 6TH STREET SOUTH • KIRKLAND, WA 98033
PHONE: (206) 817-9400 • FAX: (425) 889-8369
CONTACT: CHRIS BICKET, P.E.

ILLUMINATION PLAN

P.E. STAMP BOX

CHRISTOPHER T. BICKET, STATE OF WASHINGTON, 38640, REGISTERED PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY	CK
1				
2				
3				
4				
5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
ILLUMINATION AND INTERCONNECT PLAN

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 7.06	

Plotted: Oct 11, 2011 – 1:44pm Erik Preston C:\Users\Erik Preston\Documents\TENW ACTIVE\Design\Woodinville-Duvall Road Widening\CAD\WDR Master Illum.dwg Layout Name: 7.06

ILLUMINATION POLE SCHEDULE (NEW POLES ONLY)

POLE ID	STREET	STATION	OFFSET	MOUNT. HEIGHT	ARM LENGTH	SERVICE/ CIRCUIT	WATTAGE/ TYPE	VOLT	POLE TYPE	BASE	LUMINAIRE TYPE – DISTRIBUTION	FOUNDATION TYPE
A	WOOD-DUVALL RD	22+21.0	30.5' LT	35'	10'	160TH SVC/ CIRCUIT A	200 HPS	240	STEEL	SLIP	M-C-III	TYPE 1 POLE & ARM PER WSDOT J-28.10-00 TYPE A FOUNDATION PER WSDOT J-28.30-01
B	WOOD-DUVALL RD	23+55.0	24.0' LT	35'	10'	160TH SVC/ CIRCUIT A	200 HPS	240	STEEL	SLIP	M-C-III	TYPE 1 POLE & ARM PER WSDOT J-28.10-00 TYPE A FOUNDATION PER WSDOT J-28.30-01
C	WOOD-DUVALL RD	24+88.0	24.0' LT	35'	10'	160TH SVC/ CIRCUIT A	200 HPS	240	STEEL	SLIP	M-C-III	TYPE 1 POLE & ARM PER WSDOT J-28.10-00 TYPE A FOUNDATION PER WSDOT J-28.30-01
D	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
E	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
F	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
G	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
H	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
I	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
J	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
K	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
L	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
M	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
N	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
O	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
P	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
Q	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
R	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
S	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
T	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
U	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
V	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
W	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
X	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
Y	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
Z	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
AA	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
BB	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
CC	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
DD	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
EE	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
FF	WOOD-DUVALL RD	PSE	PSE	35'	10'	PSE	200 HPS	--	WOOD	--	M-C-III	--
GG	WOOD-DUVALL RD	10+56.0	39.0' LT	35'	10'	156TH SVC/ CIRCUIT A	200 HPS	240	STEEL	SLIP	M-C-III	TYPE 1 POLE & ARM PER WSDOT J-28.10-00 TYPE A FOUNDATION PER WSDOT J-28.30-01

NOTE: ALL LUMINAIRES AND ARMS ON PSE POLES TO BE FURNISHED AND INSTALLED BY PSE.
THE MOUNTING HEIGHT FOR PSE POLE-MOUNTED LUMINAIRES REPRESENTS THE APPROXIMATE FIXTURE HEIGHT ABOVE THE ROADWAY SURFACE.

GENERAL NOTES

1. THE LOCATION OF ALL CONDUIT, JUNCTION BOXES, AND CABINETS SHOWN ON THIS PLAN ARE FOR GRAPHIC REPRESENTATION ONLY AND FINAL LOCATIONS SHALL BE DETERMINED BY THE ENGINEER OR CITY INSPECTOR.
2. JUNCTION BOXES SHALL BE PLACED OUTSIDE OF PAVEMENT SURFACE AND WHEELCHAIR RAMPS UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER.
3. ALL WORK SHALL BE IN ACCORDANCE WITH CITY OF WOODINVILLE STANDARDS AND SPECIFICATIONS.
4. THE LOCATIONS OF FEATURES SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AS NECESSARY.
5. THE CONTRACTOR SHALL SUBMIT A REQUEST TO THE INSPECTOR FOR MATERIALS APPROVAL AT THE EARLIEST POSSIBLE DATE.
6. ALL WORK SHALL BE CONSISTENT WITH UTILITY AGENCY REQUIREMENTS. THE CONTRACTOR SHALL CONTACT ALL PERTINENT UTILITY AGENCIES 48 HOURS BEFORE COMMENCING WORK, AND SHALL COORDINATE WITH AFFECTED UTILITY AGENCIES THROUGHOUT THE PROJECT.
7. SEE THE PROJECT SPECIFICATIONS AND SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS RELATED TO THIS CONTRACT.
8. EXISTING FEATURES TO REMAIN UNLESS OTHERWISE NOTED.
9. ALL CONDUCTORS FOR STREET LIGHTS SHALL BE LABELED IN EACH JUNCTION BOX.
10. INSTALL A PULL WIRE IN ALL NEW SPARE CONDUIT
11. ALL NEW ILLUMINATION POLE FOUNDATIONS LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
12. AS PART OF THE DESIGN PROCESS, THE ENGINEER HAS ATTEMPTED TO CONFIRM THAT THERE ARE NOT CONFLICTS WITH OVERHEAD POWER LINES OR SUBSURFACE UTILITIES. HOWEVER, IT IS POSSIBLE FOR THE EXISTING OR PROPOSED CONDITIONS TO CHANGE PRIOR TO IMPLEMENTATION OF THE SCOPE OF WORK IDENTIFIED ON THESE DOCUMENTS. AS THE FIRST ORDER OF BUSINESS, THE CONTRACTOR SHALL POTHOLE EACH NEW SIGNAL POLE AND LUMINAIRE POLE LOCATION TO CONFIRM THAT THERE ARE NOT CONFLICTS WITH SUBSURFACE UTILITIES. ADDITIONALLY, THE CONTRACTOR SHALL CONFIRM THAT THERE IS A MINIMUM 10-FT CLEARANCE PROVIDED BETWEEN OVERHEAD POWER LINES AND THE PROPOSED LUMINAIRE POLES PRIOR TO POLE PLACEMENT. ADDITIONAL CLEARANCE MAY BE REQUIRED AS DIRECTED BY THE UTILITY. THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY IF A CONFLICT IS DISCOVERED.

EXHIBIT 3
PAGE 74 OF 114

20' 0' 20' 40'
SCALE IN FEET

Transportation Engineering NorthWest, LLC
816 6TH STREET SOUTH • KIRKLAND, WA 98033
PHONE: (206) 817-9400 • FAX: (425) 889-8369
CONTACT: CHRIS BICKET, P.E.

PRELIMINARY DO

CHRISTOPHER T. BICKET, STATE OF WASHINGTON, 38880, REGISTERED PROFESSIONAL ENGINEER

P.E. STAMP BOX

NO.	REVISION	DATE	BY	CK
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CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

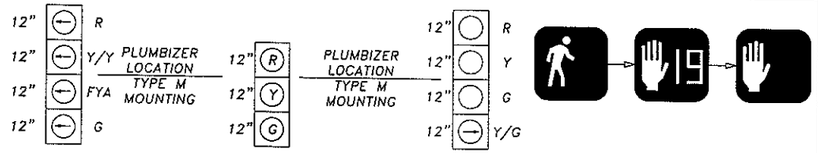
PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
ILLUMINATION SCHEDULES & NOTES

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 7.07	

Plotted: Oct 11, 2011 - 10:59am Erik Preston C:\Users\Erik Preston\Documents\TEMP ACTIVE\Design\Woodinville-Duvall Road Widening\CAD\WDR Master Illum.dwg Layout Name: 7.07

SIGNAL DISPLAYS



VEHICLE HEADS
NEW: 51/OLA

VEHICLE HEADS
NEW: 22,23,41, 61,62

VEHICLE HEADS
NEW: 42/OLB

PEDESTRIAN HEADS
NEW: 46,47 48,49 68,69

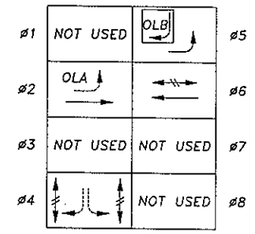
ALL NEW VEHICLE SIGNAL HEADS SHALL BE LED TYPE WITH 12" LENSES, SQUARE DOORS AND SHALL BE EQUIPPED WITH ALUMINUM TUNNEL VISORS AND POLY BACKPLATES. HEADS SHALL BE PAINTED DARK GREEN, WITH FLAT BLACK INTERIORS.

VEHICLE HEADS SHALL HAVE TYPE M MOUNTS UNLESS OTHERWISE NOTED.

ALL PEDESTRIAN HEADS SHALL BE LED COUNTDOWN-TYPE WITH TYPE E SIDE MOUNTS ON SIGNAL POLES AND TYPE D TOP MOUNTS ON PS POLES. SEE WSDOT STANDARD PLANS J-20.16-00 AND J-20.20-00 FOR MOUNTING DETAILS.

PHASE DIAGRAM

PROPOSED PHASING



VEHICLE MOVEMENT
PEDESTRIAN MOVEMENT
PERMISSIVE MOVEMENT

PRE-EMPT
EVP A = ø2 & ø5
EVP B = ø4
EVP C = ø6

SIGNAL LEGEND

EXIST.	NEW	DESCRIPTION
		JUNCTION BOX TYPE 1,2,8
		VEHICLE SIGNAL HEAD
		PEDESTRIAN SIGNAL HEAD
		SIGNAL POLE TYPE III
		SIGNAL POLE TYPE II
		TIMBER STRAIN POLE
		VIDEO DETECTION CAMERA
		SIGNAL POLE TYPE PS
		APS PPB
		MAST ARM/SPAN WIRE MOUNTED SIGN
		EMERGENCY PRE-EMPT DET
		WOOD POST
		CONDUIT/CONDUCTOR
		SERVICE CABINET
		BATTERY BACKUP
		CONTROLLER CABINET
		CONSTRUCTION NOTE
		POLE ID
		WIRE NOTE
		SIGN NOTE

WIRE SCHEDULE

RUN#	RACEWAY CONDUIT SIZE	2CSh PPB/VEH DET.	E.V.P. 3CSh	FIBER OPTICS- 12 SM	VIDEO 6C Dual Element	SIGNAL 5C	SIGNAL 7C	SIGNAL 10C	#8 GROUND/BONDING	#2 SVC. CONDUCTORS	ILLUM./SIGNAL	ACTUAL FILL (IN.)	26% FILL (IN.)	NOTES
1	MAST ARM					1						---	---	
2	MAST ARM		1			1						---	---	
3	MAST ARM		1		1	1						---	---	
4	MAST ARM		1		1	1	1					---	---	
5	MAST ARM		1		1	2	1					---	---	
6	MAST ARM					1						---	---	
7	MAST ARM		1			1						---	---	
8	MAST ARM		1		1	1						---	---	
9	MAST ARM		1		1	2						---	---	
10	2" SCH80 PVC ILLUM							1		2-#8		0.168	0.747	
11	2" SCH80 PVC									3-#10		0.099	0.747	
12	2" SCH80 PVC								3			0.399	0.747	
	3" SCH80 PVC SPARE							1				---	1.675	
13	2" SCH80 PVC ILLUM							1		2-#8		0.168	0.747	
	2" SCH80 PVC SPARE							1				---	0.747	
14	4" SCH80 PVC					3		6	1			2.216	3.350	
	3" SCH80 PVC SPARE								1			---	1.675	
15	3" SCH80 PVC	6	3		3				1			1.316	1.675	
	2" SCH80 PVC			1					1			0.100	0.747	
	3" SCH80 PVC SPARE								1			---	1.675	
16	2" SCH80 PVC							2	1			0.636	0.747	
17	3" SCH80 PVC ILLUM								1		6-#8	0.392	1.675	INCLUDES RADAR
	3" SCH80 PVC SPARE								1			---	1.675	
18	2" SCH80 PVC	1							1			0.146	0.747	
19	2" SCH80 PVC					1			1			0.196	0.747	
20	2" SCH80 PVC	1	1		1				1			0.386	0.747	
21	2" SCH80 PVC	2	1		1				1			0.476	0.747	
	2" SCH80 PVC SPARE								1			---	0.747	
	2" SCH80 PVC			1					1			0.100	0.747	
22	2" SCH80 PVC ILLUM								1		6-#8	0.392	0.747	INCLUDES RADAR
	2" SCH80 PVC SPARE								1			---	0.747	
23	3" SCH80 PVC							4	1			1.216	1.675	
	2" SCH80 PVC SPARE								1			---	0.747	
24	2" SCH80 PVC	2	2		2				1			0.716	0.747	
	2" SCH80 PVC SPARE								1			---	0.747	
25	2" SCH80 PVC					1		2	1			0.776	0.747	
	2" SCH80 PVC SPARE								1			---	0.747	

PULL CORD IS REQUIRED IN ALL CONDUITS AND ALL EMPTY CONDUITS SHALL HAVE #8 GROUND/BONDING CONDUCTOR.

NOTES

- SEE SHEET 8.02 FOR SIGNAL NOTES
- SEE SHEET 8.03 FOR SIGNAL POLE CHART
- SEE SHEET 8.31 FOR CONTROLLER/BPS/SERVICE DETAILS
- SEE SHEET 8.32 FOR FOUNDATION DETAILS AND TRAFFIC SIGNAL GENERAL NOTES
- SEE SHEET 8.33 FOR VIDEO DETECTION CAMERA DETAILS

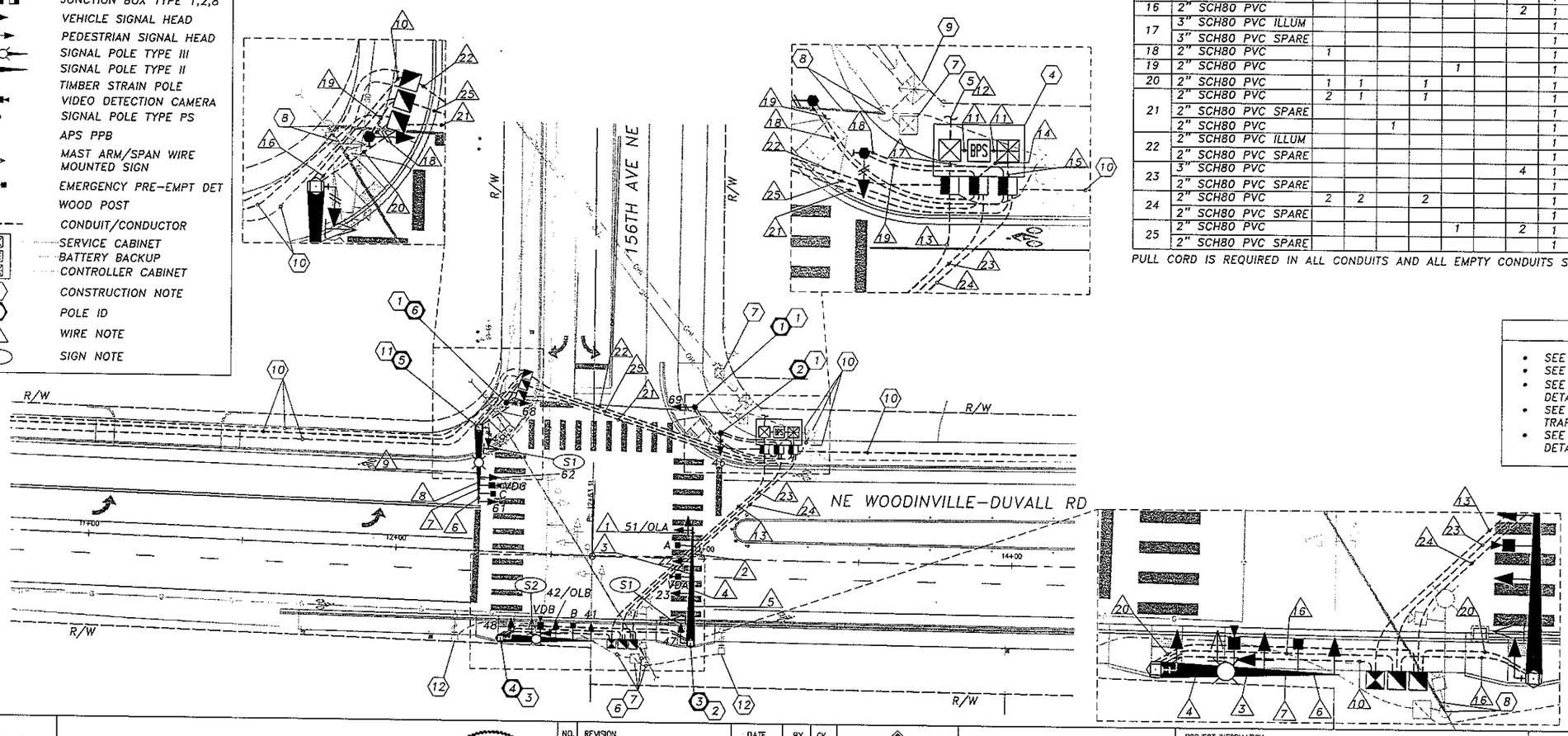


EXHIBIT 3
PAGE 75 OF 114

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NO.	REVISION	DATE	BY	CK
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CITY OF WOODINVILLE
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FAX: (425)489-2705

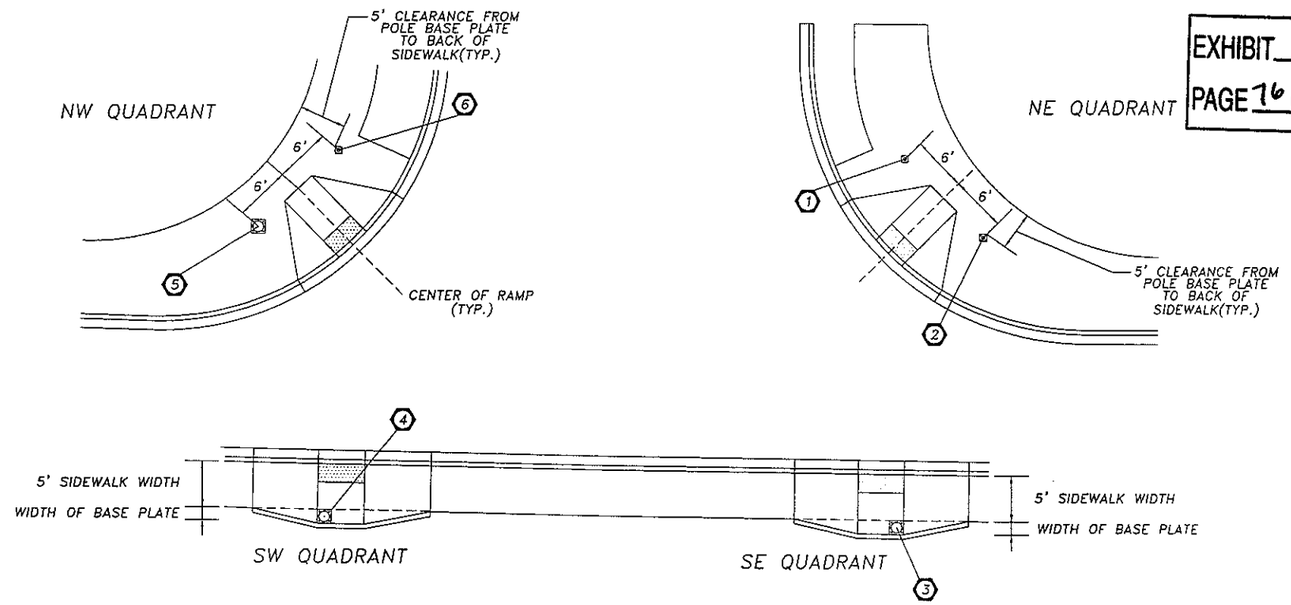
PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
156TH AVE NE SIGNAL PLAN

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 8.01	

TRAFFIC SIGNAL CONSTRUCTION NOTES

1. CONSTRUCT FOUNDATION PER WSDOT STANDARD PLAN J-20.16-00. FURNISH AND INSTALL TYPE PS SIGNAL POLE WITH ONE APS PEDESTRIAN PUSHBUTTON AND ONE PEDESTRIAN SIGNAL HEAD ON THE POLE. SEE POLE LOCATION DETAIL FOR PLACEMENT OF POLE, THIS SHEET.
2. CONSTRUCT FOUNDATION PER DETAIL ON SHEET 8.32 AND SIGNAL POLE CHART ON SHEET 8.03. FURNISH AND INSTALL A TYPE II SIGNAL POLE WITH THREE VEHICULAR SIGNAL HEADS, ONE VIDEO DETECTION CAMERA, ONE D3-302(MOD) STREET NAME SIGN, AND ONE OPTICOM MODEL 721 EMERGENCY PREEMPTION DETECTOR ON THE MAST ARM. FURNISH AND INSTALL ONE PEDESTRIAN SIGNAL HEAD, ONE APS PEDESTRIAN PUSHBUTTON, AND ONE TERMINAL CABINET ON THE SIGNAL POLE. SEE POLE LOCATION DETAIL FOR PLACEMENT OF POLE, THIS SHEET.
3. CONSTRUCT FOUNDATION PER DETAIL ON SHEET 8.32 AND SIGNAL POLE CHART ON SHEET 8.03. FURNISH AND INSTALL A TYPE III SIGNAL POLE WITH TWO VEHICULAR SIGNAL HEADS, ONE VIDEO DETECTION CAMERA, ONE D3-302(MOD) STREET NAME SIGN, AND ONE OPTICOM MODEL 721 EMERGENCY PREEMPTION DETECTOR ON THE MAST ARM. FURNISH AND INSTALL ONE PEDESTRIAN SIGNAL HEAD, ONE APS PEDESTRIAN PUSHBUTTON, AND ONE TERMINAL CABINET ON THE SIGNAL POLE. FURNISH AND INSTALL ONE 200 WATT HPS M-C-III COBRA HEAD LUMINAIRE ON A 10-FT ARM AT 35-FT MOUNTING HEIGHT. SEE POLE LOCATION DETAIL FOR PLACEMENT OF POLE, THIS SHEET.
4. INSTALL FOUNDATION FOR COMBINED CONTROLLER/BPS/SERVICE CONCRETE PER DETAIL, SHEET 8.31. FURNISH AND INSTALL CONTROLLER, BPS, AND SERVICE CABINET PER SNOHOMISH COUNTY STANDARDS AND PER PROJECT SPECIAL PROVISIONS. LOCATION AND ORIENTATION OF FOUNDATION AND CABINETS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO POURING FOUNDATION.
5. PSE POWER SOURCE IS UNKNOWN AT THE TIME OF PLAN PREPARATION. CONTRACTOR SHALL TRENCH AND PROVIDE/INSTALL CONDUIT AND CONDUCTORS TO THE BASE OF THE PSE UTILITY POLE. CONTRACTOR SHALL LEAVE ADEQUATE LENGTH OF CONDUCTORS COILED AT BASE OF UTILITY POLE FOR PSE TO MAKE FINAL CONNECTION. RISER INSTALLATION AND FINAL POWER CONNECTION SHALL BE PROVIDED BY PSE. CONTRACTOR SHALL COORDINATE INSTALLATION WITH PSE.
6. REMOVE UNUSED CONDUIT FROM BENEATH NEW ROADWAY LIMITS. UNUSED CONDUIT BENEATH SIDEWALK AND LANDSCAPE AREAS MAY BE ABANDONED.
7. REMOVE TEMPORARY JUNCTION BOX AND CONDUIT BENDS. ABANDON EXISTING CONDUIT. FILL AND COMPACT VOID.
8. REMOVE TEMPORARY TIMBER STRAIN POLE, SPAN WIRES, SIGNAL DISPLAYS, PEDESTRIAN PUSHBUTTONS, CONDUCTORS, AND ALL OTHER EQUIPMENT ASSOCIATED WITH THE TEMPORARY TRAFFIC SIGNAL. CONTRACTOR SHALL COORDINATE WITH THE CITY INSPECTOR TO DETERMINE IF ANY SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY. ANY EQUIPMENT NOT DESIRED BY THE CITY SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
9. REMOVE EXISTING CONTROLLER CABINET AND FOUNDATION. FILL AND COMPACT VOID. CONTRACTOR SHALL RETURN THE CABINET AND ASSOCIATED CONTROLLER EQUIPMENT TO THE CITY.
10. SEE ILLUMINATION AND INTERCONNECT PLAN, SHEETS 7.01 THROUGH 7.07.
11. CONSTRUCT FOUNDATION PER DETAIL ON SHEET 8.32 AND SIGNAL POLE CHART ON SHEET 8.03. FURNISH AND INSTALL A TYPE III SIGNAL POLE WITH TWO VEHICULAR SIGNAL HEADS, ONE VIDEO DETECTION CAMERA, ONE D3-302(MOD) STREET NAME SIGN, AND ONE OPTICOM MODEL 721 EMERGENCY PREEMPTION DETECTOR ON THE MAST ARM. FURNISH AND INSTALL ONE PEDESTRIAN SIGNAL HEAD, ONE APS PEDESTRIAN PUSHBUTTON, AND ONE TERMINAL CABINET ON THE SIGNAL POLE. FURNISH AND INSTALL ONE 200 WATT HPS M-C-III COBRA HEAD LUMINAIRE ON A 10-FT ARM AT 35-FT MOUNTING HEIGHT. SEE POLE LOCATION DETAIL FOR PLACEMENT OF POLE, THIS SHEET.
12. REMOVE TEMPORARY WOOD POST, PEDESTRIAN DISPLAY, PEDESTRIAN PUSHBUTTON, CONDUCTORS, AND ALL OTHER EQUIPMENT ASSOCIATED WITH THE TEMPORARY PEDESTRIAN SIGNAL. CONTRACTOR SHALL COORDINATE WITH THE CITY INSPECTOR TO DETERMINE IF ANY SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY. ANY EQUIPMENT NOT DESIRED BY THE CITY SHALL BECOME THE PROPERTY OF THE CONTRACTOR.



POLE LOCATION DETAILS
NOT TO SCALE

NOTE:
STAKE THE CURB RAMPS AND FACE OF CURB AT THE TIME POLE LOCATIONS ARE STAKED. FOUNDATIONS SHALL NOT BE POURED UNTIL THE ENGINEER HAS CONFIRMED.

EXHIBIT 3
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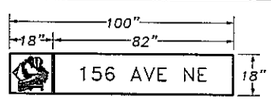
MAST ARM SIGN LEGEND

S1 — D3-302(MOD) 100"x 18"

BODY
BACKGROUND: GREEN
LETTERS: WHITE 8"D
BORDER: WHITE 0.75"

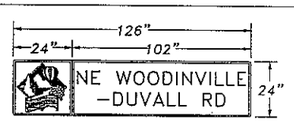
LOGO
BACKGROUND: WHITE
LOGO: COLOR
BORDER: BLACK 0.75"



S2 — D3-302(MOD) 126"x 24"

BODY
BACKGROUND: GREEN
LETTERS: WHITE 8"D
BORDER: WHITE 0.75"

LOGO
BACKGROUND: WHITE
LOGO: COLOR
BORDER: BLACK 0.75"



20' 0' 20' 40'
SCALE IN FEET

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PRELIMINARY

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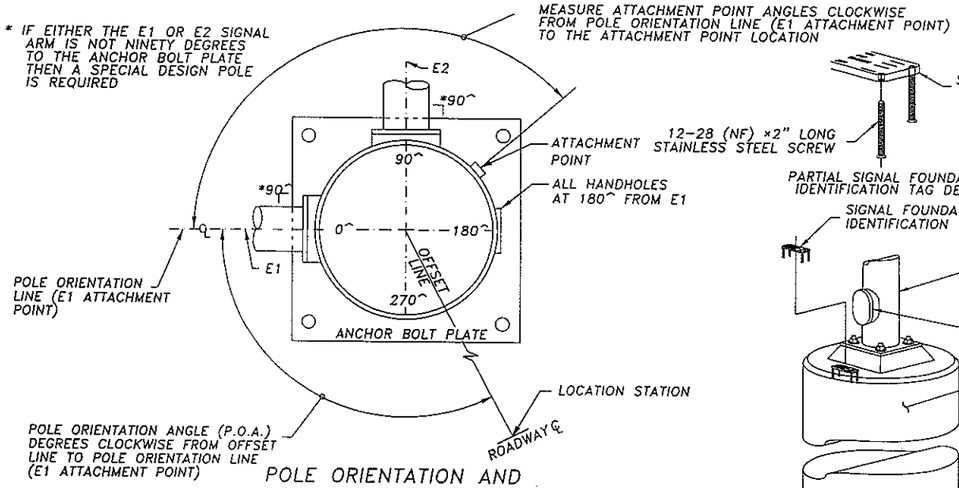
PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

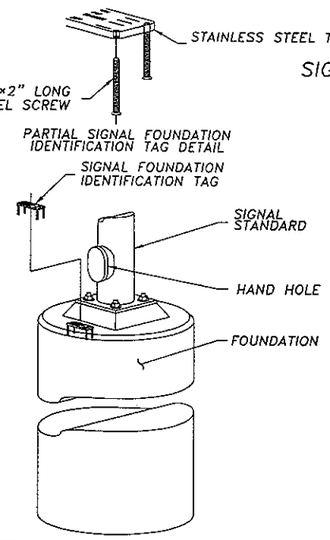
SHEET TITLE:
156TH AVE NE SIGNAL NOTES & DETAILS

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: N/A
SHEET X OF X	
DRAWING NO.: 8.02	

Plotted: Oct 17, 2011 - 4:59pm Erik Preston C:\Users\Erik.Preston\Documents\TEMP ACTIVE\Design\Woodinville-Duvall Road Widening\CAD\WDR Master Signal.dwg Layout Name: 8.02



POLE ORIENTATION AND ATTACHMENT POINT DETAIL



OBLIQUE VIEW

REINFORCING AND ANCHOR BOLTS NOT SHOWN FOR CLARITY

SIGNAL FOUNDATION IDENTIFICATION TAG DETAIL

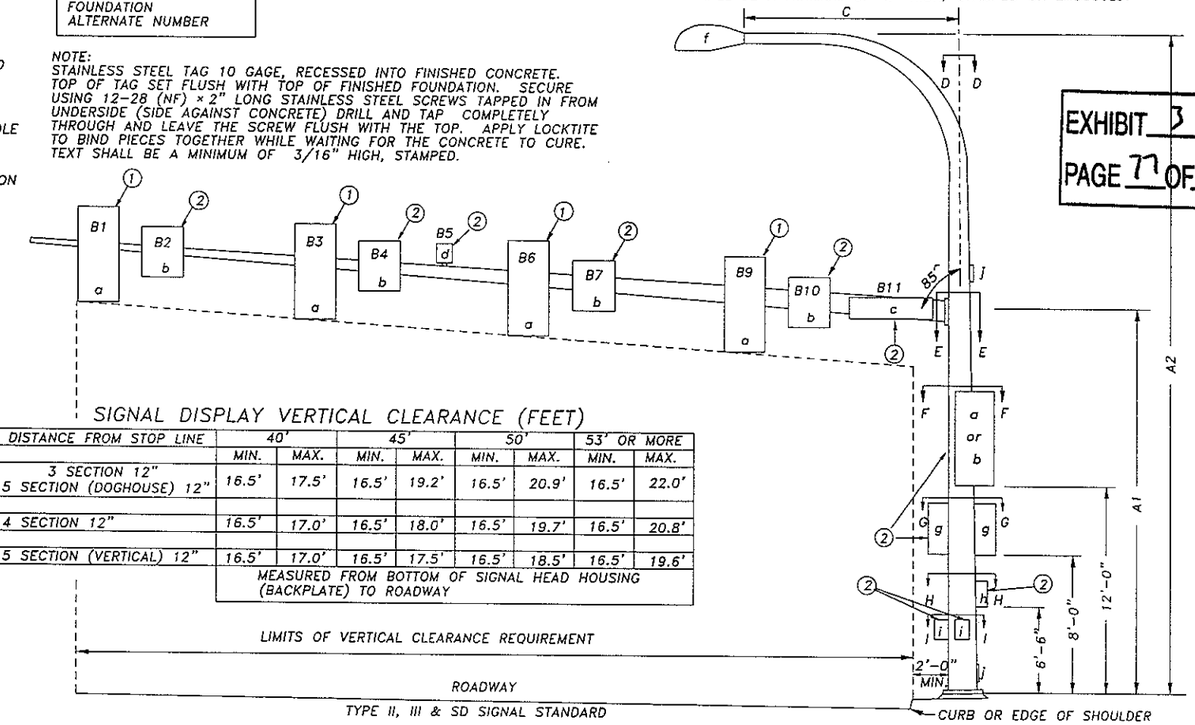
FOUNDATION DEPTH	
FOUNDATION SHAPE	SQUARE OR ROUND
FOUNDATION DIMENSION	DIAMETER OR WIDTH
FOUNDATION ALTERNATE NUMBER	

NOTE:
STAINLESS STEEL TAG 10 GAGE, RECESSED INTO FINISHED CONCRETE. TOP OF TAG SET FLUSH WITH TOP OF FINISHED FOUNDATION. SECURE USING 12-28 (NF) × 2" LONG STAINLESS STEEL SCREWS TAPPED IN FROM UNDERSIDE (SIDE AGAINST CONCRETE) DRILL AND TAP COMPLETELY THROUGH AND LEAVE THE SCREW FLUSH WITH THE TOP. APPLY LOCKTITE TO BIND PIECES TOGETHER WHILE WAITING FOR THE CONCRETE TO CURE. TEXT SHALL BE A MINIMUM OF 3/16" HIGH, STAMPED.

SIGNAL STANDARD IDENTIFICATION TAG DETAIL

		EXAMPLE
STD. NO. XX	SIGNAL STANDARD NO.	STD. NO. 02
MANUFACTURER	MANUFACTURER	UNITED POLE INC.
APPROVED DWG. XXXXXX	APPROVED DRAWING NO.	APPROVED DWG. AB12345
FAB. X/XX/XXXX	FABRICATION DATE	FAB. 6/14/2002

NOTE: CORROSION RESISTANT METAL TAG SECURED WITH (2) 0.125" RIVETS AS FOLLOWS: POLE SHAFT - LOCATED WITHIN 6" ABOVE HAND HOLE, SIGNAL AND LUMINAIRE MAST ARM - LOCATED WITHIN 6" OF THE POLE SHAFT CONNECTION POINT. TEXT SHALL BE A MINIMUM OF 3/16" HIGH, STAMPED OR EMBOSSED.



TYPE II, III & SD SIGNAL STANDARD

EXHIBIT 3
PAGE 77 OF 114

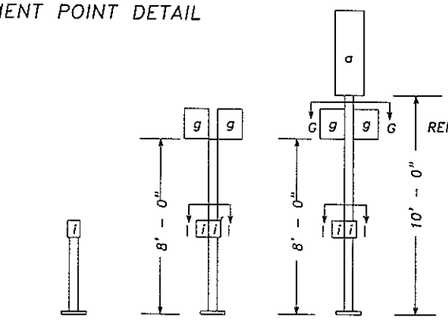
NOTES

(1) Mounting Coupling installed at offset distance indicated in chart.

(2) Field installed.
Sign b - 7.5 SQ. FT. sign area (max.) and sign height 3 FT. (max.)
Sign c - 36 SQ. FT. sign area (max.) installed 2' max. to sign edge from post and sign height 3 FT. (max.)

ALTERNATE NOTE 1 FOR TYPE N MOUNT ONLY.

(1) Drill 1" diam. hole in mast arm and install plastic split bushing for cable entrance.



TYPE PPB PPB POST | TYPE PS PED. HEAD STANDARD | TYPE I VEHICLE HEAD STANDARD

LEGEND

a. Vehicle Display
b. Sign
c. Street Name Sign
d. Pre-Empt Detector
e. Deleted (10/22/90)
f. Luminaire
g. Pedestrian Display
h. Cabinet
i. PPB-M
j. Handhole

SIGNAL DISPLAY VERTICAL CLEARANCE (FEET)

DISTANCE FROM STOP LINE	40'		45'		50'		53' OR MORE	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
3 SECTION 12" 5 SECTION (DOGHOUSE) 12"	16.5'	17.5'	16.5'	19.2'	16.5'	20.9'	16.5'	22.0'
4 SECTION 12"	16.5'	17.0'	16.5'	18.0'	16.5'	19.7'	16.5'	20.8'
5 SECTION (VERTICAL) 12"	16.5'	17.0'	16.5'	17.5'	16.5'	18.5'	16.5'	19.6'

MEASURED FROM BOTTOM OF SIGNAL HEAD HOUSING (BACKPLATE) TO ROADWAY

LIMITS OF VERTICAL CLEARANCE REQUIREMENT

ROADWAY

SIGNAL STANDARD DETAIL CHART

STD. No.	ROADWAY	FIELD LOCATION STATION	OFFSET	LT.	RT.	P.O.A.	POLE TYPE	MOUNTING HEIGHT(FT) A1	A2	MAST ARM LENGTH	SIGNAL MAST ARM DATA: OFFSET DISTANCES(FT) (Z) (POLE TO ATTACHMENT POINT) B1	B2	B3	VIDEO	B5	B6	B11	WINDLOAD AREAS (FT)Â (X)(Y) B1	B2	B3	B4	B6	B11	(X)(Y)(Z) WINDLOAD *TOTAL(FT)Â	LUM ARM(FT) C	POLE ATTACHMENT POINT ANGLES (deg) D	E1	E2	F	G1	G2	H	I1	I2	FOUNDATION DETAIL CHART: **FOUNDATION DEPTHS(FT) ALTERNATE 1 3'RD.	3'SQ.	4'RD.	ALTERNATE 2 3'RD.	4'RD.	*** ELEV	**** SOIL (PSF)	REMARKS
1	WDR-LINE	12+96.0	50.0'	X			PS																									(1)			0									FDN PER WSDOT STD. PLAN J-20.16-00
2	WDR-LINE	13+04.5	41.5'	X			PS																									(1)			90									FDN PER WSDOT STD. PLAN J-20.16-00
3	WDR-LINE	12+96.0	28.0'		X	0°	II	18'		40'	37		26.5	21.5	32	16	7.5	11.6		9.2		9.2	12.5	914		0				270		180	270		11	9	9	---	---	---	1,000	---
4	WDR-LINE	12+35.0	28.0'		X	90°	III	18'	35'	30'	29		18.5	13	24		10	9.2		11.6			21.0	692	10	0	0			0		90	0		10	8	8	---	---	---	1,000	---
5	WDR-LINE	12+25.5	40.5'	X		0°	III	18'	35'	25'	24.5		19	16.5	21.5		7	9.2		9.2			12.5	488	10	0	0			270		135	270		10	8	8	---	---	---	1,000	---
6	WDR-LINE	12+33.5	49.5'	X			PS																							(1)			0									FDN PER WSDOT STD. PLAN J-20.16-00

*TOTAL(FT)Â= CALCULATED WINDLOAD + FUTURE WINDLOAD
**SEE SIGNAL STANDARD FOUNDATION DETAIL SHEET FOR FOUNDATION DETAILS
***ELEVATION (FEET) AT TOP OF FOUNDATION
****LATERAL BEARING PRESSURE (PSF)

(1) NOT APPLICABLE; USES TYPE D TOP MOUNT.

** FOUNDATION DEPTHS ARE BASED ON 1,000 PSF DESIGN LATERAL BEARING PRESSURE, PER RECOMMENDATIONS BY TERRACON CONSULTANTS, INC. IDENTIFIED IN THE: GEOTECHNICAL ENGINEERING REPORT DRAFT, 7/29/10.

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CONTACT: CHRIS BICKET, P.E.

PRELIMINARY DRAFT

CHRISTOPHER T. BICKET STATE OF WASHINGTON 39639 REGISTERED PROFESSIONAL ENGINEER

P.E. STAMP BOX

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CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION

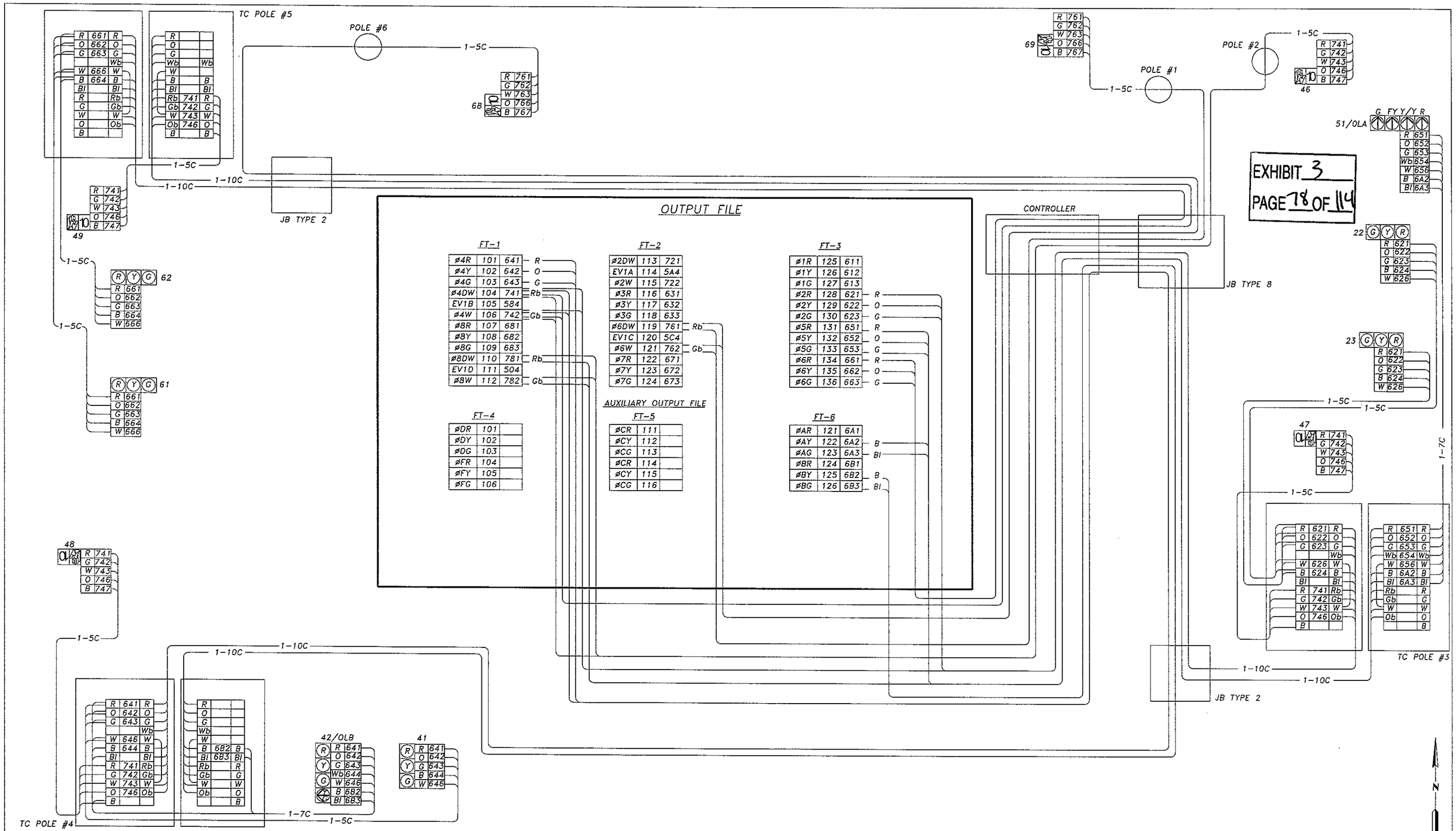
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:

156TH AVE NE SIGNAL POLE CHART

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: N/A
SHEET X OF X	
DRAWING NO.: 8.03	

Plotted: Oct 11, 2011 - 11:09am Erik Preston C:\Users\Erik Preston\Documents\TENW ACTIVE\Design\Woodinville-Duvall Road Widening\CAD\WDR Master Signal.dwg Layout Name: 8.03



Transportation Engineering NorthWest, LLC

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PHONE: (206) 817-9400 • FAX: (425) 889-8369
CONTACT: CHRIS BICKET, P.E.

PRELIMINARY DRAFT

P.E. STAMP BOX

NO.	REVISION	DATE	BY	CK
1				
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CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
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PROJECT INFORMATION

WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:

156TH AVE NE WIRING DIAGRAM

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: N/A
SHEET X OF X	
DRAWING NO.: 8.04	

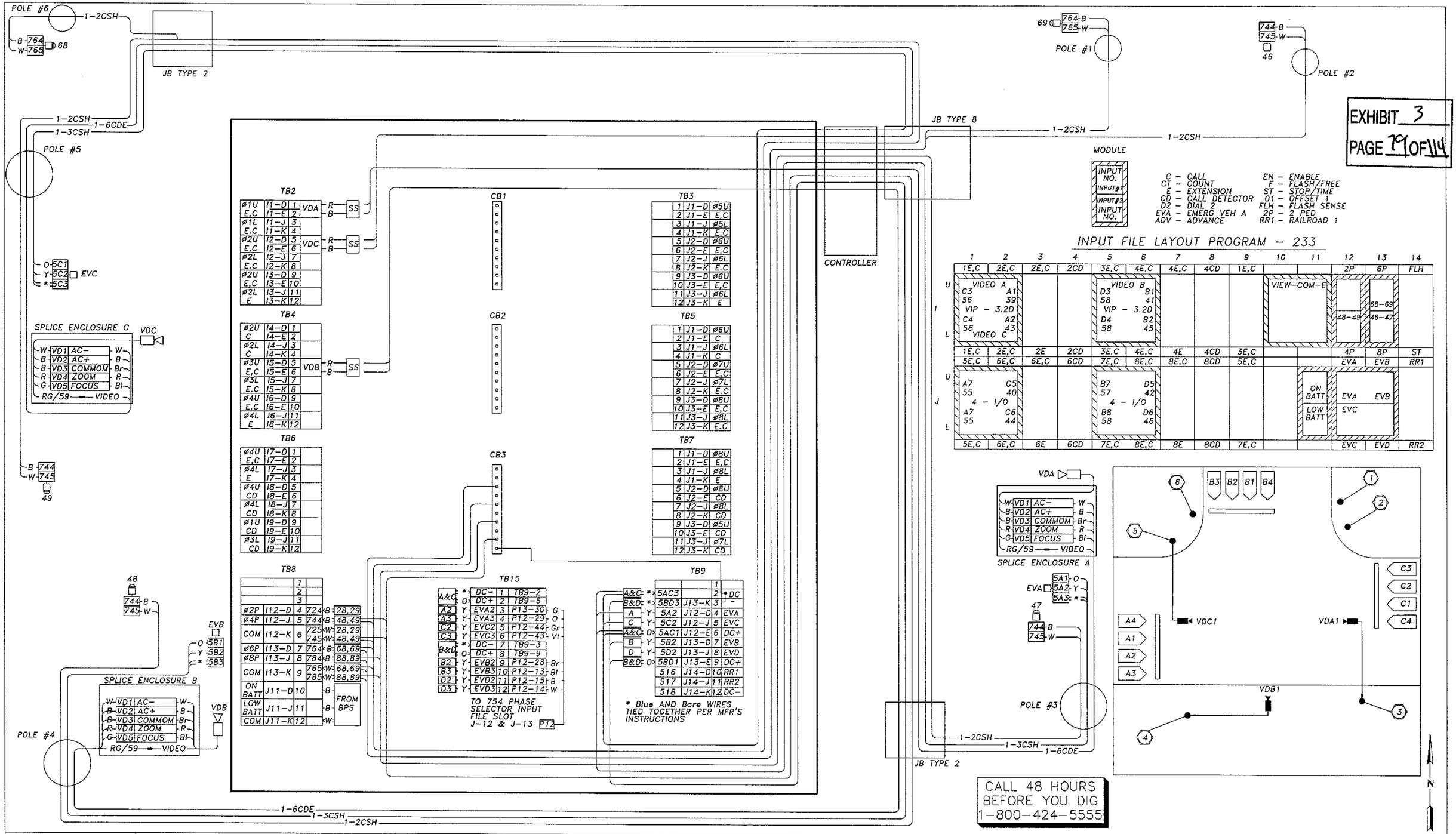

EXHIBIT 3
PAGE 79 OF 114

CALL 48 HOURS BEFORE YOU DIG 1-800-424-5555

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PROJECT INFORMATION

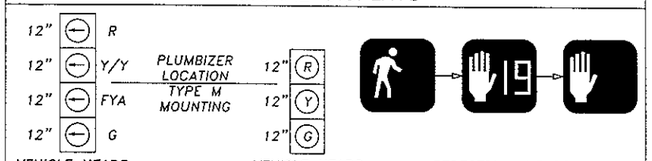
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:

156TH AVE NE WIRING DIAGRAM

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: N/A
SHEET X OF X	
DRAWING NO.: 8.05	

SIGNAL DISPLAYS



VEHICLE HEADS
NEW: 11/OLC
51/OLA

VEHICLE HEADS
NEW: 22,23,41,42
62,63,81,82

PEDESTRIAN HEADS
NEW: 28,29
68,69
88,89

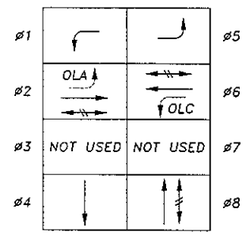
ALL NEW VEHICLE SIGNAL HEADS SHALL BE LED TYPE WITH 12" LENSES, SQUARE DOORS AND SHALL BE EQUIPPED WITH ALUMINUM TUNNEL VISORS AND POLY BACKPLATES. HEADS SHALL BE PAINTED DARK GREEN, WITH FLAT BLACK INTERIORS.

ALL MAST ARM MOUNTED VEHICLE HEADS SHALL HAVE TYPE M MOUNTS. ALL SIGNAL POLE MOUNTED VEHICLE HEADS SHALL HAVE TYPE K MOUNTS.

ALL PEDESTRIAN HEADS SHALL BE LED COUNTDOWN-TYPE WITH TYPE E SIDE MOUNTS ON SIGNAL POLES AND TYPE D TOP MOUNTS ON PS POLES. SEE WSDOT STANDARD PLANS J-20.16-00 AND J-20.20-00 FOR MOUNTING DETAILS.

PHASE DIAGRAM

PROPOSED PHASING



VEHICLE MOVEMENT
PEDESTRIAN MOVEMENT
PERMISSIVE MOVEMENT

PRE-EMPT
EVP A = ø2 & ø5
EVP B = ø4
EVP C = ø1 & ø6
EVP D = ø8

WIRE SCHEDULE

RUN#	RACEWAY CONDUIT SIZE	2CSh PPB/VEH DET.	E.V.P. 3CSh	FIBER OPTICS- 12 SM	VIDEO 6C Dual Element	SIGNAL 5C	SIGNAL 7C	SIGNAL 10C	#8 GROUND/BONDING	#2 SVC. CONDUCTORS	ILLUM./SIGNAL	ACTUAL FILL (IN.)	26% FILL (IN.)	NOTES
1	MAST ARM					1						---	---	
2	MAST ARM		1			1						---	---	
3	MAST ARM		1		1	1						---	---	
4	MAST ARM		1	1	1	1						---	---	
5	MAST ARM		1	1	2	1						---	---	
6	MAST ARM				1							---	---	
7	MAST ARM		1		1							---	---	
8	MAST ARM		1	1	1							---	---	
9	MAST ARM		1	1	2							---	---	
10	MAST ARM			1	1							---	---	
11	2" SCH80 PVC									3-#10		0.099	0.747	
12	2" SCH80 PVC								3			0.399	0.747	
13	2" SCH80 PVC ILLUM							1		2-#8		0.168	0.747	
14	4" SCH80 PVC				1		6	1				1.936	3.350	
	3" SCH80 PVC SPARE							1				---	1.675	
15	3" SCH80 PVC	6	4	4				1				1.556	1.675	
	2" SCH80 PVC			1				1				0.100	0.747	
	3" SCH80 PVC SPARE							1				---	1.675	
16	2" SCH80 PVC						2	1				0.636	0.747	
17	2" SCH80 PVC	1	1	1				1				0.386	0.747	
18	2" SCH80 PVC	1						1				0.146	0.747	
19	2" SCH80 PVC				1			1				0.196	0.747	
20	3" SCH80 PVC ILLUM							1		4-#8		0.280	1.675	
	3" SCH80 PVC SPARE							1				---	1.675	
21	2" SCH80 PVC						2	1				0.636	0.747	
	2" SCH80 PVC SPARE							1				---	0.747	
22	2" SCH80 PVC	2	1	1				1				0.476	0.747	
	2" SCH80 PVC SPARE							1				---	0.747	
23	3" SCH80 PVC						4	1				1.216	1.675	
	2" SCH80 PVC SPARE							1				---	0.747	
24	3" SCH80 PVC	3	2	2				1				0.806	1.675	
	2" SCH80 PVC SPARE							1				---	0.747	
25	4" SCH80 PVC						6	1				1.796	3.350	
	2" SCH80 PVC SPARE							1				---	0.747	
26	3" SCH80 PVC	4	3	3				1				1.136	1.675	
	2" SCH80 PVC SPARE							1				---	0.747	
	2" SCH80 PVC			1				1				0.100	0.747	
27	2" SCH80 PVC ILLUM							1		2-#8		0.168	0.747	
	2" SCH80 PVC SPARE							1				---	0.747	
28	2" SCH80 PVC							1		4-#8		0.280	0.747	
	2" SCH80 PVC SPARE							1				---	0.747	
29	2" SCH80 PVC	2	1	1				1				0.476	0.747	

PULL CORD IS REQUIRED IN ALL CONDUITS AND ALL EMPTY CONDUITS SHALL HAVE #8 GROUND/BONDING CONDUCTOR.

SIGNAL LEGEND

NEW	DESCRIPTION
	JUNCTION BOX TYPE 1,2,8
	VEHICLE SIGNAL HEAD
	PEDESTRIAN SIGNAL HEAD
	SIGNAL POLE TYPE III
	SIGNAL POLE TYPE II
	VIDEO DETECTION CAMERA
	SIGNAL POLE TYPE PS
	APS PPB
	MAST ARM MOUNTED SIGN
	EMERGENCY PRE-EMPT DET
	CONDUIT/CONDUCTOR
	SERVICE CABINET
	BATTERY BACKUP
	CONTROLLER CABINET
	CONSTRUCTION NOTE
	POLE ID
	WIRE NOTE
	SIGN NOTE

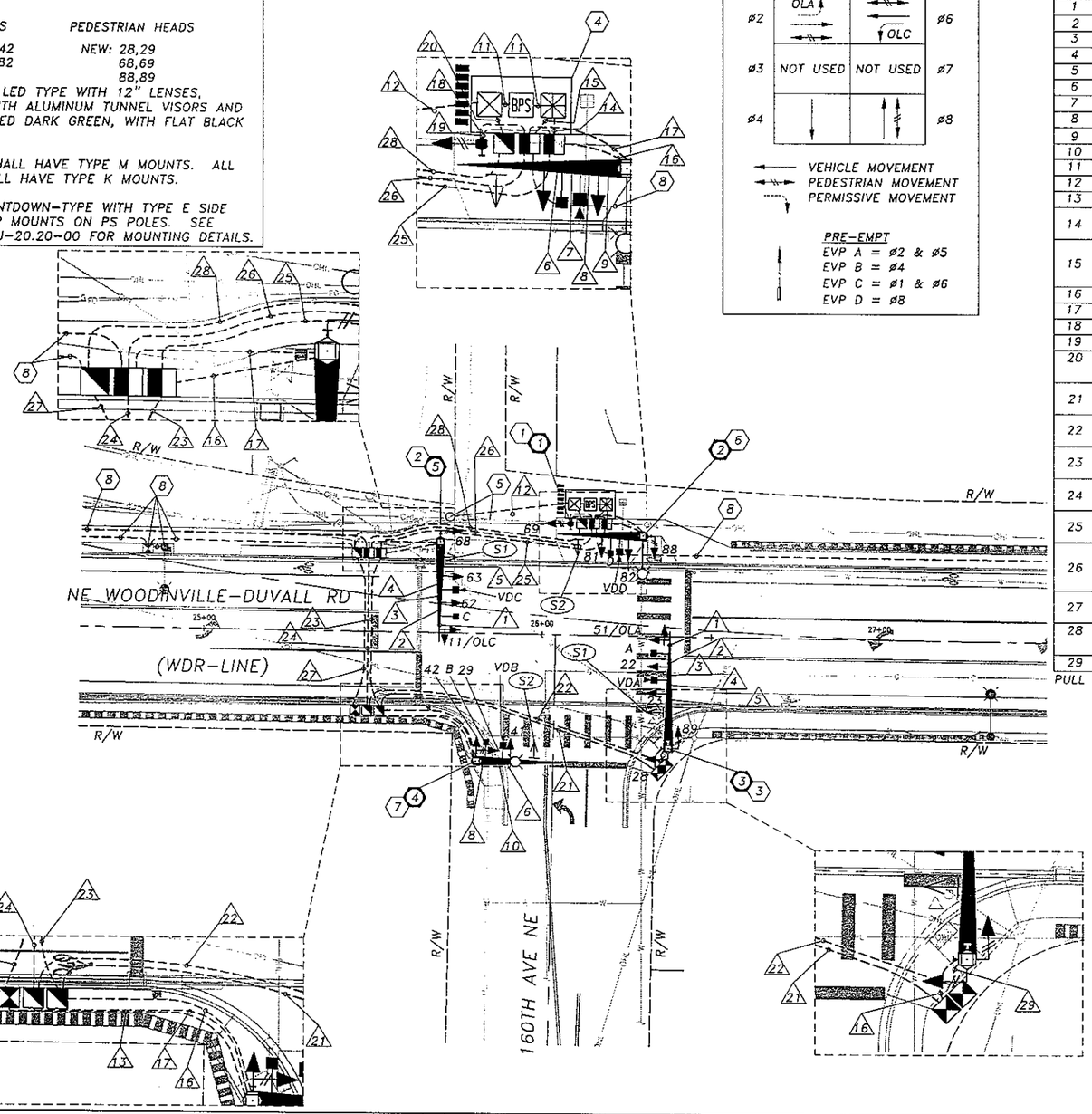


EXHIBIT 3
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NOTES

- SEE SHEET 8.12 FOR SIGNAL NOTES
- SEE SHEET 8.13 FOR SIGNAL POLE CHART
- SEE SHEET 8.31 FOR CONTROLLER/BPS/SERVICE DETAILS
- SEE SHEET 8.32 FOR FOUNDATION DETAILS AND TRAFFIC SIGNAL GENERAL NOTES
- SEE SHEET 8.33 FOR VIDEO DETECTION CAMERA DETAILS
- SHARE ROADWAY CROSSINGS WITH OTHER UTILITY CROSSINGS WHERE POSSIBLE. SIGNAL CONDUIT CROSSINGS ARE SCHEMATIC ONLY.

SCALE 20' 0' 20' 40' IN FEET

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P.E. STAMP BOX

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17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
160TH AVE NE SIGNAL PLAN

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 8.11	

TRAFFIC SIGNAL CONSTRUCTION NOTES

1. CONSTRUCT FOUNDATION PER WSDOT STANDARD PLAN J-20.16-00. FURNISH AND INSTALL TYPE PS SIGNAL POLE WITH ONE APS PEDESTRIAN PUSHBUTTON AND ONE PEDESTRIAN SIGNAL HEAD ON THE POLE. SEE POLE LOCATION DETAIL FOR PLACEMENT OF POLE, THIS SHEET.

2. CONSTRUCT FOUNDATION PER DETAIL ON SHEET 8.32 AND SIGNAL POLE CHART ON SHEET 8.13. FURNISH AND INSTALL A TYPE II SIGNAL POLE WITH THREE VEHICULAR SIGNAL HEADS, ONE VIDEO DETECTION CAMERA, ONE D3-302(MOD) STREET NAME SIGN, AND ONE OPTICOM MODEL 721 EMERGENCY PREEMPTION DETECTOR ON THE MAST ARM. FURNISH AND INSTALL ONE PEDESTRIAN SIGNAL HEAD, ONE APS PEDESTRIAN PUSHBUTTON, AND ONE TERMINAL CABINET ON THE SIGNAL POLE. SEE POLE LOCATION DETAIL FOR PLACEMENT OF POLE, THIS SHEET.

3. CONSTRUCT FOUNDATION PER DETAIL ON SHEET 8.32 AND SIGNAL POLE CHART ON SHEET 8.13. FURNISH AND INSTALL A TYPE II SIGNAL POLE WITH THREE VEHICULAR SIGNAL HEADS, ONE VIDEO DETECTION CAMERA, ONE D3-302(MOD) STREET NAME SIGN, AND ONE OPTICOM MODEL 721 EMERGENCY PREEMPTION DETECTOR ON THE MAST ARM. FURNISH AND INSTALL TWO PEDESTRIAN SIGNAL HEADS, TWO APS PEDESTRIAN PUSHBUTTONS, AND ONE TERMINAL CABINET ON THE SIGNAL POLE. SEE POLE LOCATION DETAIL FOR PLACEMENT OF POLE, THIS SHEET.

4. INSTALL FOUNDATION FOR COMBINED CONTROLLER/BPS/SERVICE CONCRETE PER DETAIL SHEET 8.31 AND SIGNAL POLE CHART ON SHEET 8.13. FURNISH AND INSTALL CONTROLLER, BPS, AND SERVICE CABINET PER SNOHOMISH COUNTY STANDARDS AND PER PROJECT SPECIAL PROVISIONS. LOCATION AND ORIENTATION OF FOUNDATION AND CABINETS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO POURING FOUNDATION.

5. APPROXIMATE LOCATION OF POWER SOURCE. CONTRACTOR SHALL TRENCH AND PROVIDE/INSTALL CONDUIT AND CONDUCTORS TO THE BASE OF THE PSE UTILITY POLE. CONTRACTOR SHALL LEAVE ADEQUATE LENGTH OF CONDUCTORS COILED AT BASE OF UTILITY POLE FOR PSE TO MAKE FINAL CONNECTION. RISER INSTALLATION AND FINAL POWER CONNECTION SHALL BE PROVIDED BY PSE. CONTRACTOR SHALL COORDINATE INSTALLATION WITH PSE. RELOCATE POLE TO WDR STA 25+72.5, 34.5'LT.

6. CONSTRUCT FOUNDATION PER DETAIL ON SHEET 8.32 AND SIGNAL POLE CHART ON SHEET 8.13. FURNISH AND INSTALL A TYPE III SIGNAL POLE WITH TWO VEHICULAR SIGNAL HEADS, ONE VIDEO DETECTION CAMERA, ONE D3-302(MOD) STREET NAME SIGN, AND ONE OPTICOM MODEL 721 EMERGENCY PREEMPTION DETECTOR ON THE MAST ARM. FURNISH AND INSTALL ONE PEDESTRIAN SIGNAL HEAD, ONE APS PEDESTRIAN PUSHBUTTON, AND ONE TERMINAL CABINET ON THE SIGNAL POLE. FURNISH AND INSTALL ONE 200 WATT HPS M-C-III COBRA HEAD LUMINAIRE ON A 10-FT ARM AT 35-FT MOUNTING HEIGHT. SEE POLE LOCATION DETAIL FOR PLACEMENT OF POLE, THIS SHEET.

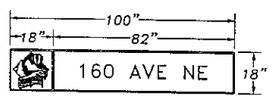
7. CONSTRUCT FOUNDATION PER DETAIL ON SHEET 8.32 AND SIGNAL POLE CHART ON SHEET 8.13. FURNISH AND INSTALL A TYPE III SIGNAL POLE WITH ONE VEHICULAR SIGNAL HEAD, ONE VIDEO DETECTION CAMERA, ONE D3-302(MOD) STREET NAME SIGN, AND ONE OPTICOM MODEL 721 EMERGENCY PREEMPTION DETECTOR ON THE MAST ARM. FURNISH AND INSTALL ONE VEHICULAR SIGNAL HEAD, ONE PEDESTRIAN SIGNAL HEAD, ONE APS PEDESTRIAN PUSHBUTTON, AND ONE TERMINAL CABINET ON THE SIGNAL POLE. FURNISH AND INSTALL ONE 200 WATT HPS M-C-III COBRA HEAD LUMINAIRE ON A 10-FT ARM AT 35-FT MOUNTING HEIGHT. SEE POLE LOCATION DETAIL FOR PLACEMENT OF POLE, THIS SHEET.

8. SEE ILLUMINATION AND INTERCONNECT PLAN, SHEETS 7.01 THROUGH 7.07.

MAST ARM SIGN LEGEND

S1
D3-302(MOD)
100" x 18"

BODY
BACKGROUND: GREEN
LETTERS: WHITE 8"D
BORDER: WHITE 0.75"
LOGO
BACKGROUND: WHITE
LOGO: COLOR
BORDER: BLACK 0.75"



S2
D3-302(MOD)
126" x 24"

BODY
BACKGROUND: GREEN
LETTERS: WHITE 8"D
BORDER: WHITE 0.75"
LOGO
BACKGROUND: WHITE
LOGO: COLOR
BORDER: BLACK 0.75"

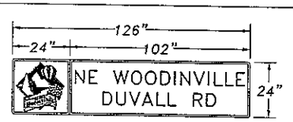
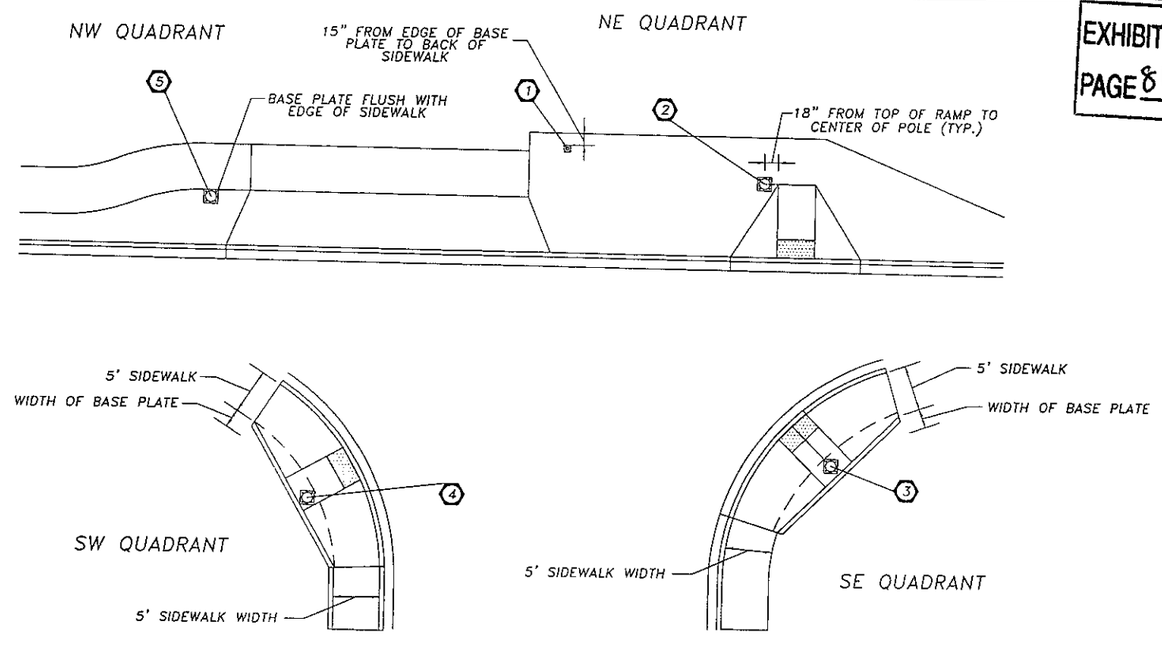


EXHIBIT 3
PAGE 81 OF 114



POLE LOCATION DETAILS
NOT TO SCALE

NOTE:
STAKE THE CURB RAMPS AND FACE OF CURB AT THE TIME POLE LOCATIONS ARE STAKED. FOUNDATIONS SHALL NOT BE POURED UNTIL THE ENGINEER HAS CONFIRMED.

20' 0' 20' 40'
SCALE IN FEET

Transportation Engineering NorthWest, LLC
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CONTACT: CHRIS BICKET, P.E.

PRELIMINARY DRAFT

P.E. STAMP BOX

CHRISTOPHER T. BICKET
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY	CK
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2				
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4				
5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
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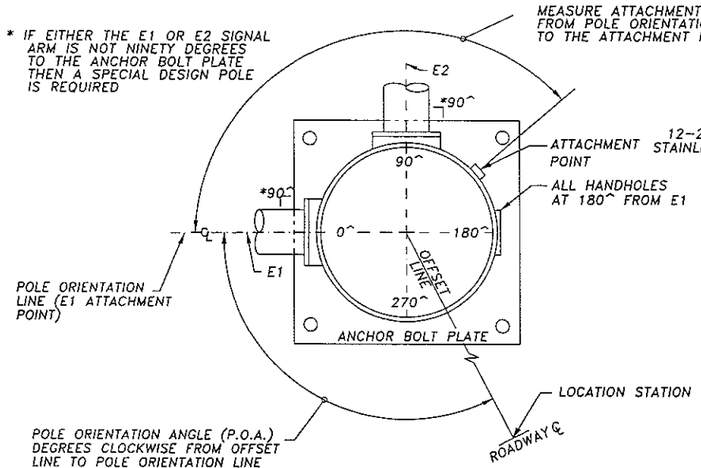
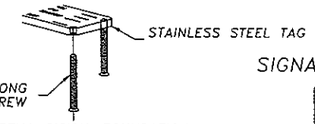
PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
160TH AVE NE SIGNAL NOTES & DETAILS

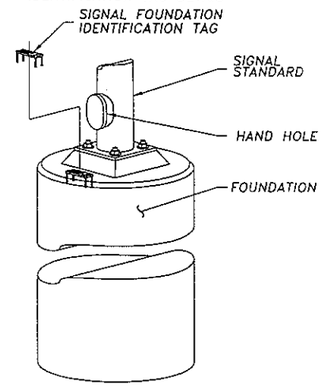
DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: N/A
SHEET X OF X	
DRAWING NO.: 8.12	



POLE ORIENTATION AND ATTACHMENT POINT DETAIL



PARTIAL SIGNAL FOUNDATION IDENTIFICATION TAG DETAIL



OBLIQUE VIEW

REINFORCING AND ANCHOR BOLTS NOT SHOWN FOR CLARITY

SIGNAL FOUNDATION IDENTIFICATION TAG DETAIL

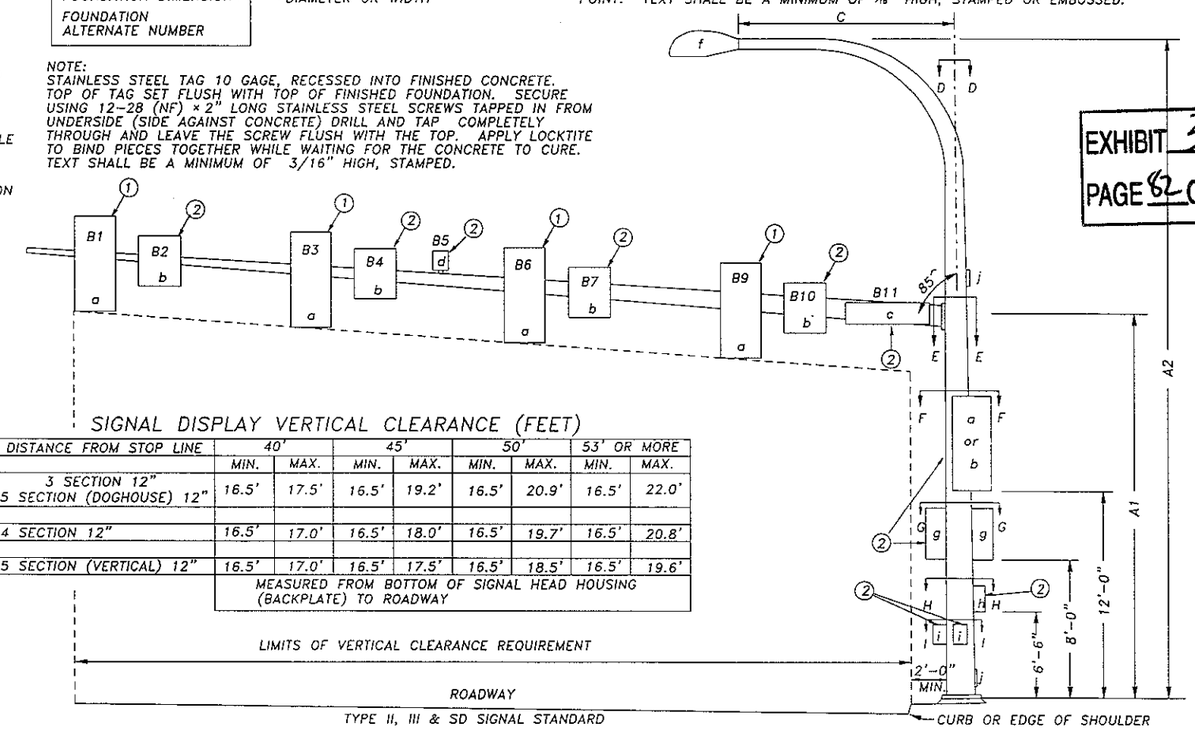
FOUNDATION DEPTH	
FOUNDATION SHAPE	SQUARE OR ROUND
FOUNDATION DIMENSION	DIAMETER OR WIDTH
FOUNDATION ALTERNATE NUMBER	

NOTE:
STAINLESS STEEL TAG 10 GAGE, RECESSED INTO FINISHED CONCRETE. TOP OF TAG SET FLUSH WITH TOP OF FINISHED FOUNDATION. SECURE USING 12-28 (NF) × 2" LONG STAINLESS STEEL SCREWS TAPPED IN FROM UNDERSIDE (SIDE AGAINST CONCRETE) DRILL AND TAP COMPLETELY THROUGH AND LEAVE THE SCREW FLUSH WITH THE TOP. APPLY LOCKTITE TO BIND PIECES TOGETHER WHILE WAITING FOR THE CONCRETE TO CURE. TEXT SHALL BE A MINIMUM OF 3/16" HIGH, STAMPED.

SIGNAL STANDARD IDENTIFICATION TAG DETAIL

		EXAMPLE
STD. NO. XX	SIGNAL STANDARD NO.	STD. NO. 02
MANUFACTURER	MANUFACTURER	UNITED POLE INC.
APPROVED DWG. XXXXXX	APPROVED DRAWING NO.	APPROVED DWG. AB12345
FAB. X/XX/XXXX	FABRICATION DATE	FAB. 6/14/2002

NOTE: CORROSION RESISTANT METAL TAG SECURED WITH (2) 0.125" RIVETS AS FOLLOWS: POLE SHAFT – LOCATED WITHIN 6" ABOVE HAND HOLE, SIGNAL AND LUMINAIRE MAST ARM – LOCATED WITHIN 6" OF THE POLE SHAFT CONNECTION POINT. TEXT SHALL BE A MINIMUM OF 3/16" HIGH, STAMPED OR EMBOSSED.



TYPE II, III & SD SIGNAL STANDARD

EXHIBIT 3
PAGE 82 OF 114

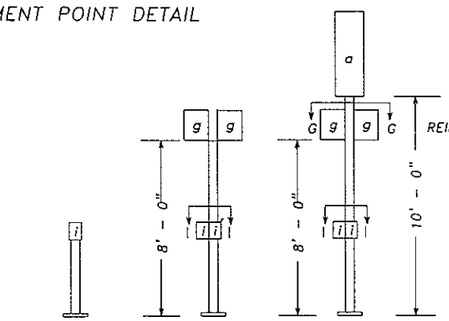
NOTES

(1) Mounting Coupling installed at offset distance indicated in chart.

(2) Field installed.
Sign b - 7.5 SQ. FT. sign area (max.) and sign height 3 FT. (max.)
Sign c - 36 SQ. FT. sign area (max.) installed 2' max. to sign edge from post and sign height 3 FT. (max.)

ALTERNATE NOTE 1 FOR TYPE N MOUNT ONLY.

(1) Drill 1" diam. hole in mast arm and install plastic split bushing for cable entrance.



TYPE PPB PPB POST — TYPE PS PED. HEAD STANDARD — TYPE I VEHICLE HEAD STANDARD

LEGEND

a. Vehicle Display
b. Sign
c. Street Name Sign
d. Pre-Empt Detector
e. Deleted (10/22/90)
f. Luminaire
g. Pedestrian Display
h. Cabinet
i. PPB-M
j. Handhole

SIGNAL DISPLAY VERTICAL CLEARANCE (FEET)

DISTANCE FROM STOP LINE	40'		45'		50'		53' OR MORE	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
3 SECTION 12" 5 SECTION (DOGHOUSE) 12"	16.5'	17.5'	16.5'	19.2'	16.5'	20.9'	16.5'	22.0'
4 SECTION 12"	16.5'	17.0'	16.5'	18.0'	16.5'	19.7'	16.5'	20.8'
5 SECTION (VERTICAL) 12"	16.5'	17.0'	16.5'	17.5'	16.5'	18.5'	16.5'	19.6'

MEASURED FROM BOTTOM OF SIGNAL HEAD HOUSING (BACKPLATE) TO ROADWAY

SIGNAL STANDARD DETAIL CHART

STD. No.	ROADWAY	FIELD LOCATION STATION	OFFSET	LT.	RT.	P.O.A.	POLE TYPE	MOUNTING HEIGHT(FT) A1	A2	MAST ARM LENGTH	SIGNAL MAST ARM DATA: OFFSET DISTANCES(FT) (Z) (POLE TO ATTACHMENT POINT) B1	B2	B3	VIDEO	B5	B6	B11	WINDLOAD AREAS (FT)Ā (X)(Y) B1	B2	B3	B4	B6	B11	(X)(Y)(Z) WINDLOAD *TOTAL(FT)Ā	LUM ARM(FT)	POLE ATTACHMENT POINT ANGLES (deg) D	E1	E2	F	G1	G2	H	I1	I2	FOUNDATION DEPTHS(FT) ALTERNATE 1 3'RD.	3'SQ.	4'RD.	ALTERNATE 2 3'RD.	4'RD.	*** ELEV	**** SOIL (PSF)	REMARKS
1	WDR-LINE	26+08.0	33.5'	X			PS																																				FDN PER WSDOT STD. PLAN J-20.16-00
2	WDR-LINE	26+29.5	30.0'	X		90°	III	18'	35'	25'	12		4	7	9.5		19	9.2		9.2			21.0	547	10	0	270			180		135	180		10	8	8	---	---	---	1,000	---
3	WDR-LINE	26+37.5	33.5'		X	0°	II	18'		35'	32.5		24.5	20.5	28.5	16.5	10.5	11.6		9.2		9.2	12.5	886		0				0	270	135	90	180	10	8	8	---	---	---	1,000	---
4	WDR-LINE	25+81.0	38.0'		X	90°	III	18'	35'	25'	10			8	3		17	9.2					21.0	449	10	0	0		270	270		135	270		10	8	8	---	---	---	1,000	---
5	WDR-LINE	25+69.5	27.5'	X		0°	II	18'		30'	26		18.5	14.5	22.5	10.5	4.5	11.6		9.2		9.2	12.5	625		0				180		135	180		10	8	8	---	---	---	1,000	---

*TOTAL(FT)Ā= CALCULATED WINDLOAD + FUTURE WINDLOAD
**SEE SIGNAL STANDARD FOUNDATION DETAIL SHEET FOR FOUNDATION DETAILS
***ELEVATION (FEET) AT TOP OF FOUNDATION
****LATERAL BEARING PRESSURE (PSF)

(1) NOT APPLICABLE; USES TYPE D TOP MOUNT.

** FOUNDATION DEPTHS ARE BASED ON 1,000 PSF DESIGN LATERAL BEARING PRESSURE, PER RECOMMENDATIONS BY TERRACON CONSULTANTS, INC. IDENTIFIED IN THE: GEOTECHNICAL ENGINEERING REPORT DRAFT, 7/29/10.

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CONTACT: CHRIS BICKET, P.E.

P.E. STAMP BOX

NO.	REVISION	DATE	BY	CK
1				
2				
3				
4				
5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
160TH AVE NE SIGNAL POLE CHART

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: N/A
SHEET X OF X	
DRAWING NO.: 8.13	

Plotted: Oct 11, 2011 – 11:16am Erik Preston C:\Users\Eric Preston\Documents\TEMP ACTIVE\Design\Woodinville-Duvall Road Widening\CAD\WDR Master Signal.dwg Layout Name: 8.13

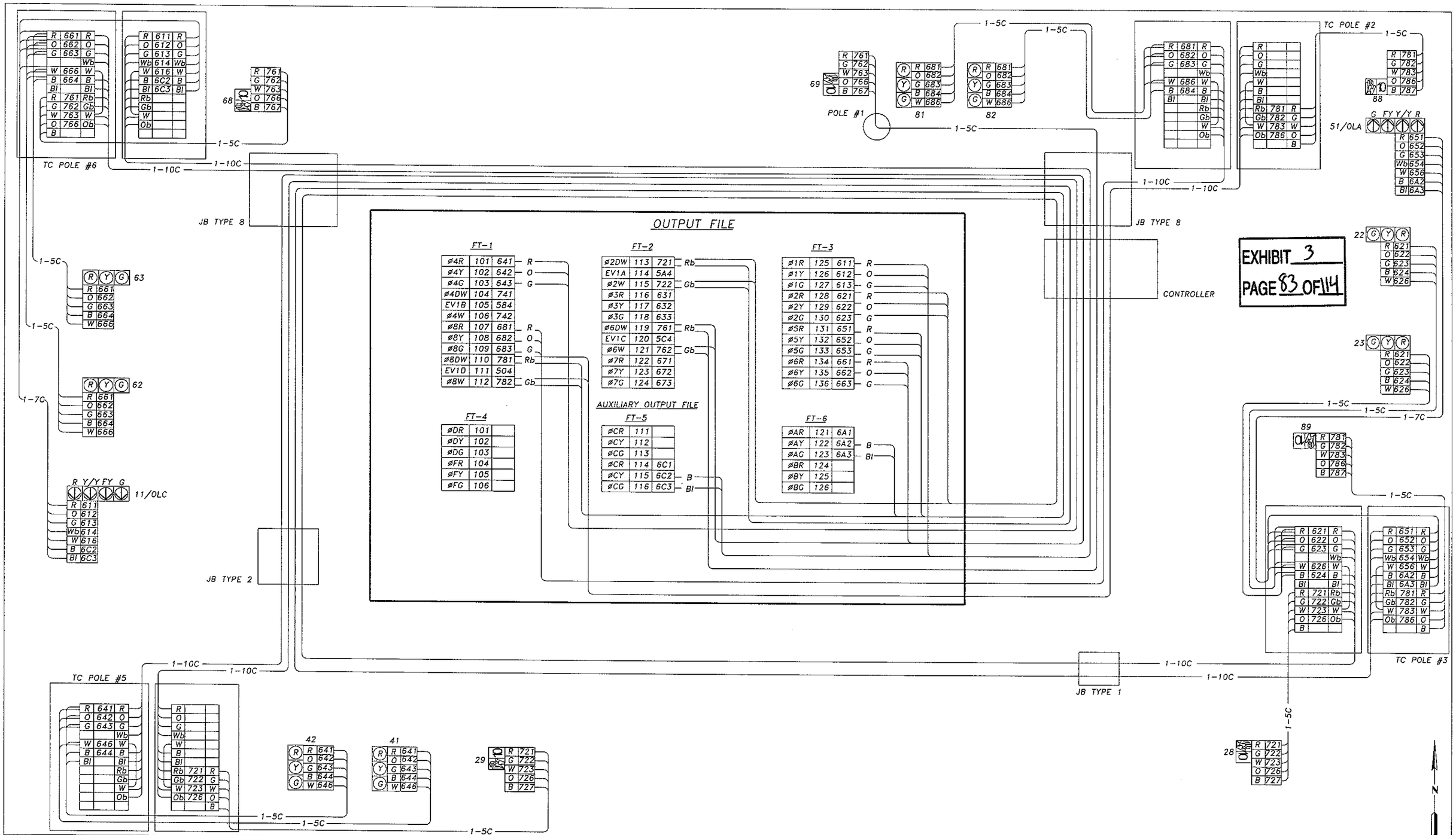

EXHIBIT 3
PAGE 83 OF 114

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PRELIMINARY

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PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
160TH AVE NE WIRING DIAGRAM

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: N/A
SHEET X OF X	
DRAWING NO.: 8.14	

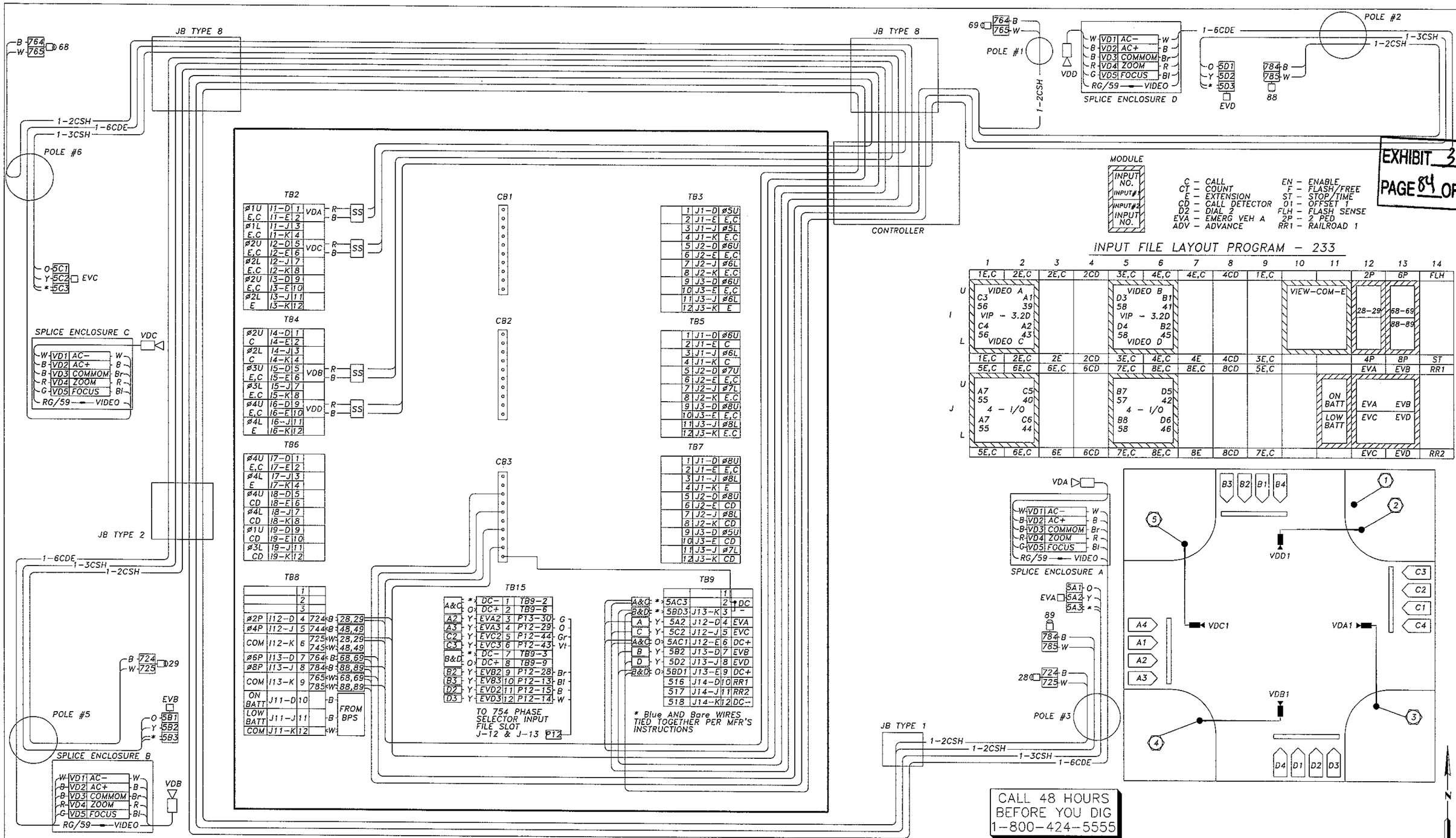

EXHIBIT 3
PAGE 84 OF 114

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PRELIMINARY DRAWING

P.E. STAMP BOX

NO.	REVISION	DATE	BY	CK
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PROJECT INFORMATION

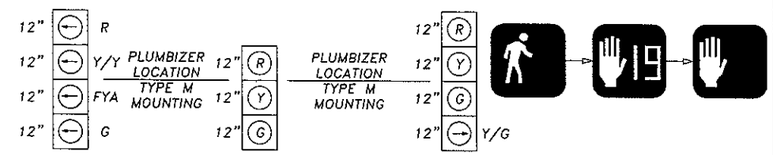
WOODINVILLE–DUVALL ROAD WIDENING PROJECT

SHEET TITLE:

160TH AVE NE WIRING DIAGRAM

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: N/A
SHEET X OF X	
DRAWING NO.: 8.15	

SIGNAL DISPLAYS



VEHICLE HEADS
NEW: 11/OLC
51/OLA

VEHICLE HEADS
NEW: 22,23,41
62,63
81,82

VEHICLE HEADS
NEW: 42/OLB

PEDESTRIAN HEADS
NEW: 28,29
48,49
68,69
88,89

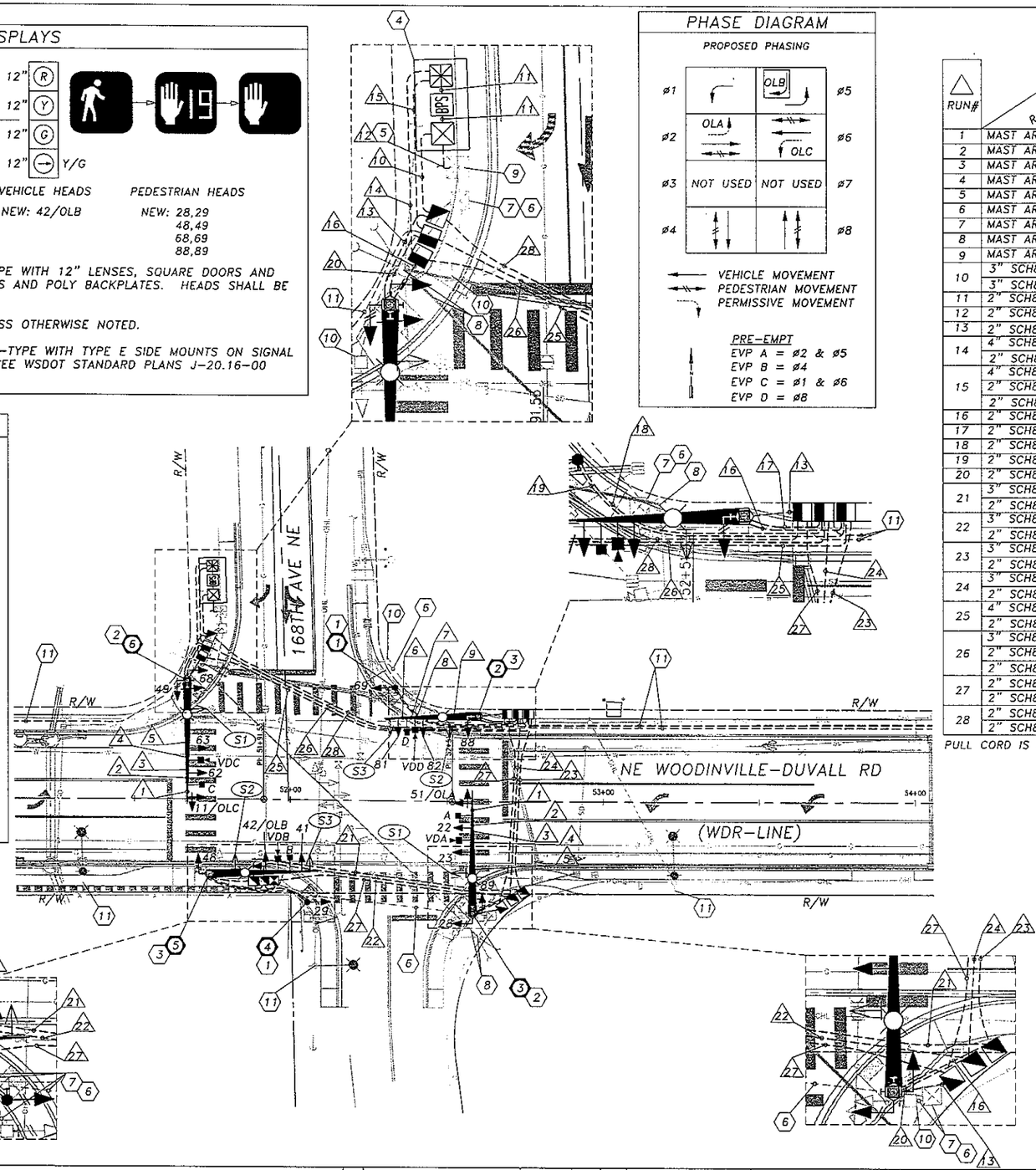
ALL NEW VEHICLE SIGNAL HEADS SHALL BE LED TYPE WITH 12" LENSES, SQUARE DOORS AND SHALL BE EQUIPPED WITH ALUMINUM TUNNEL VISORS AND POLY BACKPLATES. HEADS SHALL BE PAINTED DARK GREEN, WITH FLAT BLACK INTERIORS.

VEHICLE HEADS SHALL HAVE TYPE M MOUNTS UNLESS OTHERWISE NOTED.

ALL PEDESTRIAN HEADS SHALL BE LED COUNTDOWN-TYPE WITH TYPE E SIDE MOUNTS ON SIGNAL POLES AND TYPE D TOP MOUNTS ON PS POLES. SEE WSDOT STANDARD PLANS J-20.16-00 AND J-20.20-00 FOR MOUNTING DETAILS.

SIGNAL LEGEND

EXIST.	NEW	DESCRIPTION
		JUNCTION BOX TYPE 1,2,8
		VEHICLE SIGNAL HEAD
		PEDESTRIAN SIGNAL HEAD
		SIGNAL POLE TYPE III
		SIGNAL POLE TYPE II
		TIMBER STRAIN POLE
		VIDEO DETECTION CAMERA
		SIGNAL POLE TYPE PS
		APS PPB
		MAST ARM/SPAN WIRE MOUNTED SIGN
		EMERGENCY PRE-EMPT DET
		WOOD POST
		CONDUIT/CONDUCTOR
		SERVICE CABINET
		BATTERY BACKUP
		CONTROLLER CABINET
		CONSTRUCTION NOTE
		POLE ID
		WIRE NOTE
		SIGN NOTE



PHASE DIAGRAM

PROPOSED PHASING

VEHICLE MOVEMENT
PEDESTRIAN MOVEMENT
PERMISSIVE MOVEMENT

PRE-EMPT
EVP A = ø2 & ø5
EVP B = ø4
EVP C = ø1 & ø6
EVP D = ø8

WIRE SCHEDULE

RUN#	RACEWAY CONDUIT SIZE	2CSh PPB/VEH DET.	E.V.P. 3CSh	FIBER OPTICS- 12 SM	VIDEO 6C Dual Element	SIGNAL 5C	SIGNAL 7C	SIGNAL 10C	#3 GROUND/BONDING	#2 SVC. CONDUCTORS	ILLUM./SIGNAL	ACTUAL FILL (IN.)	26% FILL (IN.)	NOTES
1	MAST ARM					1						---	---	
2	MAST ARM		1			1						---	---	
3	MAST ARM		1		1	1						---	---	
4	MAST ARM		1		1	1						---	---	
5	MAST ARM		1		1	2						---	---	
6	MAST ARM					1						---	---	
7	MAST ARM		1			1						---	---	
8	MAST ARM		1		1	1						---	---	
9	MAST ARM		1		1	2						---	---	
10	3" SCH80 PVC ILLUM							1		4-#8	0.280	1.675		INCLUDES RADAR
	3" SCH80 PVC SPARE							1			---	1.675		
11	2" SCH80 PVC									3-#10	0.099	0.747		
12	2" SCH80 PVC								3		0.399	0.747		
13	2" SCH80 PVC ILLUM							1		2-#8	0.168	0.747		INCLUDES RADAR
14	4" SCH80 PVC					2	8	1			2.656	3.350		
	2" SCH80 PVC SPARE							1			---	0.747		
15	4" SCH80 PVC	8	4		4			1			1.736	3.350		
	2" SCH80 PVC			1				1			0.100	0.747		
	2" SCH80 PVC SPARE							1			---	0.747		
16	2" SCH80 PVC						2	1			0.636	0.747		
17	2" SCH80 PVC	1	1		1			1			0.386	0.747		
18	2" SCH80 PVC	1						1			0.146	0.747		
19	2" SCH80 PVC					1		1			0.196	0.747		
20	2" SCH80 PVC	2	1		1			1			0.476	0.747		
21	3" SCH80 PVC					1	2	1			0.776	1.675		
	2" SCH80 PVC SPARE							1			---	0.747		
22	3" SCH80 PVC	2	1		1			1			0.476	1.675		
	2" SCH80 PVC SPARE							1			---	0.747		
23	3" SCH80 PVC					1	4	1			1.356	1.675		
	2" SCH80 PVC SPARE							1			---	0.747		
24	3" SCH80 PVC	4	2		2			1			0.896	1.675		
	2" SCH80 PVC SPARE							1			---	0.747		
25	4" SCH80 PVC					2	6	1			2.076	3.350		
	2" SCH80 PVC SPARE							1			---	0.747		
26	3" SCH80 PVC	6	3		3			1			1.316	1.675		
	2" SCH80 PVC			1				1			0.100	0.747		
	2" SCH80 PVC SPARE							1			---	0.747		
27	2" SCH80 PVC ILLUM							1		2-#8	0.168	0.747		
	2" SCH80 PVC SPARE							1			---	0.747		
28	2" SCH80 PVC ILLUM							1		4-#8	0.280	0.747		INCLUDES RADAR
	2" SCH80 PVC SPARE							1			---	0.747		

PULL CORD IS REQUIRED IN ALL CONDUITS AND ALL EMPTY CONDUITS SHALL HAVE #8 GROUND/BONDING CONDUCTOR.

EXHIBIT 3
PAGE 85 OF 114

NOTES

- SEE SHEET 8.12 FOR SIGNAL NOTES
- SEE SHEET 8.23 FOR SIGNAL POLE CHART
- SEE SHEET 8.31 FOR CONTROLLER/BPS/SERVICE DETAILS
- SEE SHEET 8.32 FOR FOUNDATION DETAILS AND TRAFFIC SIGNAL GENERAL NOTES
- SEE SHEET 8.33 FOR VIDEO DETECTION CAMERA DETAILS

20' 0' 20' 40'
SCALE IN FEET

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PRELIMINARY

P.E. STAMP BOX

NO.	REVISION	DATE	BY	CK
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CITY OF WOODINVILLE
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WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
168TH AVE NE SIGNAL PLAN

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 8.21	

TRAFFIC SIGNAL CONSTRUCTION NOTES

1. CONSTRUCT FOUNDATION PER WSDOT STANDARD PLAN J-20.16-00. FURNISH AND INSTALL TYPE PS SIGNAL POLE WITH ONE APS PEDESTRIAN PUSHBUTTON AND ONE PEDESTRIAN SIGNAL HEAD ON THE POLE. SEE POLE LOCATION DETAIL FOR PLACEMENT OF POLE, THIS SHEET.

2. CONSTRUCT FOUNDATION PER DETAIL ON SHEET 8.32 AND SIGNAL POLE CHART ON SHEET 8.23. FURNISH AND INSTALL A TYPE III SIGNAL POLE WITH THREE VEHICULAR SIGNAL HEADS, ONE VIDEO DETECTION CAMERA, ONE D3-302(MOD) STREET NAME SIGN, AND ONE OPTICOM MODEL 721 EMERGENCY PREEMPTION DETECTOR ON THE MAST ARM. FURNISH AND INSTALL TWO PEDESTRIAN SIGNAL HEADS, TWO APS PEDESTRIAN PUSHBUTTONS, AND ONE TERMINAL CABINET ON THE SIGNAL POLE. FURNISH AND INSTALL ONE 200 WATT HPS M-C-III COBRA HEAD LUMINAIRE ON A 10-FT ARM AT 35-FT MOUNTING HEIGHT. SEE POLE LOCATION DETAIL FOR PLACEMENT OF POLE, THIS SHEET.

3. CONSTRUCT FOUNDATION PER DETAIL ON SHEET 8.32 AND SIGNAL POLE CHART ON SHEET 8.23. FURNISH AND INSTALL A TYPE III SIGNAL POLE WITH TWO VEHICULAR SIGNAL HEADS, ONE VIDEO DETECTION CAMERA, ONE D3-302(MOD) STREET NAME SIGN, AND ONE OPTICOM MODEL 721 EMERGENCY PREEMPTION DETECTOR ON THE MAST ARM. FURNISH AND INSTALL ONE PEDESTRIAN SIGNAL HEAD, ONE APS PEDESTRIAN PUSHBUTTON, AND ONE TERMINAL CABINET ON THE SIGNAL POLE. FURNISH AND INSTALL ONE 200 WATT HPS M-C-III COBRA HEAD LUMINAIRE ON A 10-FT ARM AT 35-FT MOUNTING HEIGHT. SEE POLE LOCATION DETAIL FOR PLACEMENT OF POLE, THIS SHEET.

4. INSTALL FOUNDATION FOR COMBINED CONTROLLER/BPS/SERVICE CONCRETE PER DETAIL, SHEET 8.31. FURNISH AND INSTALL CONTROLLER, BPS, AND SERVICE CABINET PER SNOHOMISH COUNTY STANDARDS AND PER PROJECT SPECIAL PROVISIONS. LOCATION AND ORIENTATION OF FOUNDATION AND CABINETS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO POURING FOUNDATION.

5. PSE POWER SOURCE IS UNKNOWN AT THE TIME OF PLAN PREPARATION. CONTRACTOR SHALL TRENCH AND PROVIDE/INSTALL CONDUIT AND CONDUCTORS TO THE BASE OF THE PSE UTILITY POLE. CONTRACTOR SHALL LEAVE ADEQUATE LENGTH OF CONDUCTORS COILED AT BASE OF UTILITY POLE FOR PSE TO MAKE FINAL CONNECTION. RISER INSTALLATION AND FINAL POWER CONNECTION SHALL BE PROVIDED BY PSE. CONTRACTOR SHALL COORDINATE INSTALLATION WITH PSE.

6. REMOVE UNUSED CONDUIT FROM BENEATH NEW ROADWAY LIMITS. UNUSED CONDUIT BENEATH SIDEWALK AND LANDSCAPE AREAS MAY BE ABANDONED.

7. REMOVE TEMPORARY JUNCTION BOX AND CONDUIT BENDS. ABANDON EXISTING CONDUIT. FILL AND COMPACT VOID.

8. REMOVE EXISTING/TEMPORARY TIMBER STRAIN POLE, SPAN WIRES, SIGNAL DISPLAYS, PEDESTRIAN PUSHBUTTONS, CONDUCTORS, AND ALL OTHER EQUIPMENT ASSOCIATED WITH THE TEMPORARY TRAFFIC SIGNAL. CONTRACTOR SHALL COORDINATE WITH THE CITY INSPECTOR TO DETERMINE IF ANY SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY. ANY EQUIPMENT NOT DESIRED BY THE CITY SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

9. REMOVE EXISTING CONTROLLER CABINET AND FOUNDATION. FILL AND COMPACT VOID. CONTRACTOR SHALL RETURN THE CABINET AND ASSOCIATED CONTROLLER EQUIPMENT TO THE CITY.

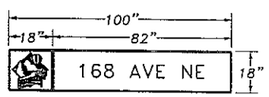
10. REMOVE EXISTING/TEMPORARY WOOD POST, PEDESTRIAN DISPLAY(S), PEDESTRIAN PUSHBUTTON(S), CONDUCTORS, AND ALL OTHER EQUIPMENT ASSOCIATED WITH THE TEMPORARY PEDESTRIAN SIGNAL. CONTRACTOR SHALL COORDINATE WITH THE CITY INSPECTOR TO DETERMINE IF ANY SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY. ANY EQUIPMENT NOT DESIRED BY THE CITY SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

11. SEE ILLUMINATION AND INTERCONNECT PLAN, SHEETS 7.01 THROUGH 7.07.

MAST ARM SIGN LEGEND

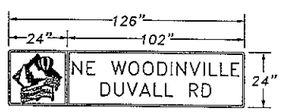
S1 D3-302(MOD) 100"x 18"

BODY
BACKGROUND: GREEN
LETTERS: WHITE 8"D
BORDER: WHITE 0.75"
LOGO
BACKGROUND: WHITE
LOGO: COLOR
BORDER: BLACK 0.75"

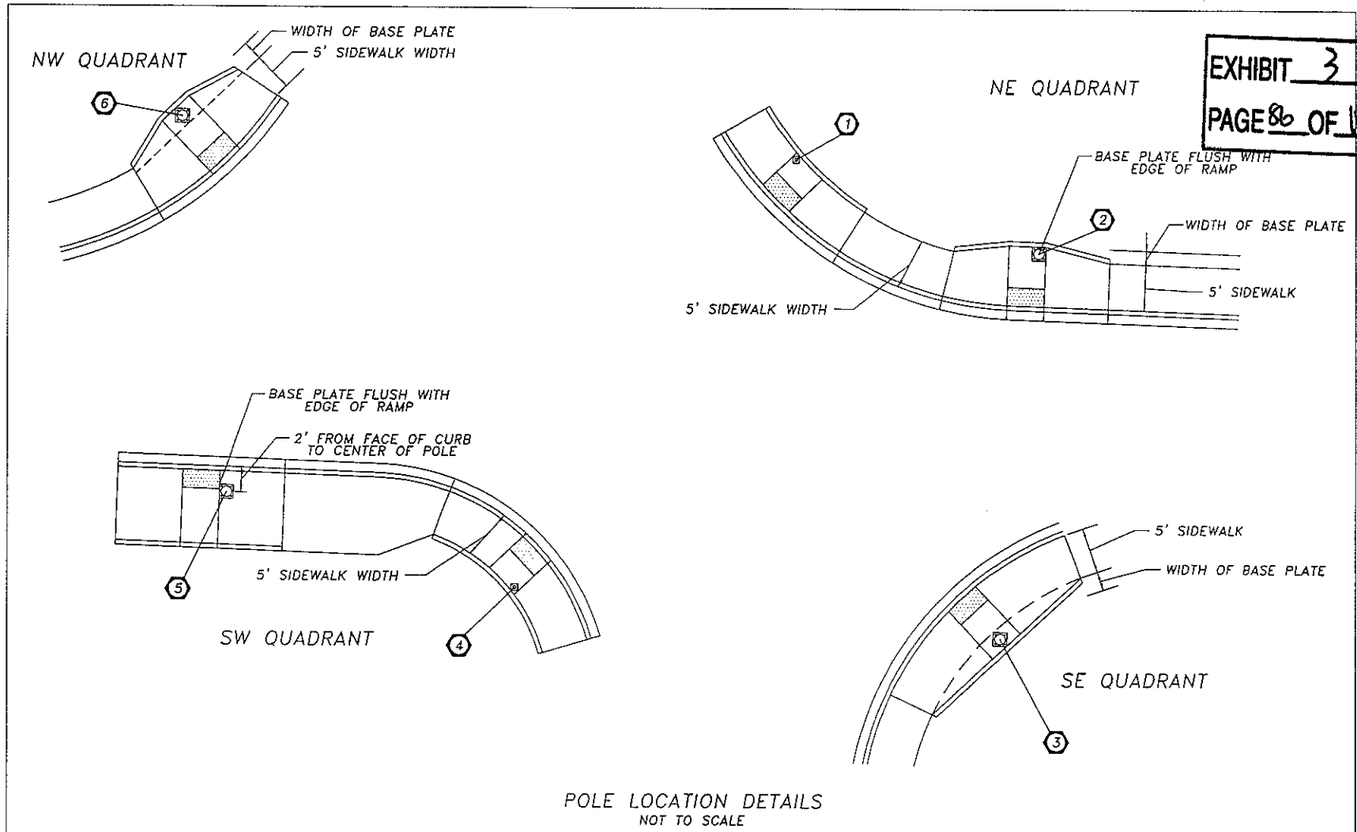


S2 D3-302(MOD) 126"x 24"

BODY
BACKGROUND: GREEN
LETTERS: WHITE 8"D
BORDER: WHITE 0.75"
LOGO
BACKGROUND: WHITE
LOGO: COLOR
BORDER: BLACK 0.75"



R10-12 (24"x30") **S3**



POLE LOCATION DETAILS
NOT TO SCALE

NOTE:
STAKE THE CURB RAMPS AND FACE OF CURB AT THE TIME POLE LOCATIONS ARE STAKED.
FOUNDATIONS SHALL NOT BE POURED UNTIL THE ENGINEER HAS CONFIRMED.

EXHIBIT 3
PAGE 86 OF 114

20' 0' 20' 40'
SCALE IN FEET

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CONTACT: CHRIS BICKET, P.E.

PRELIMINARY

P.E. STAMP BOX

CHRISTOPHER T. BICKET STATE OF WASHINGTON 38633 REGISTERED PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY	CK
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3				
4				
5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
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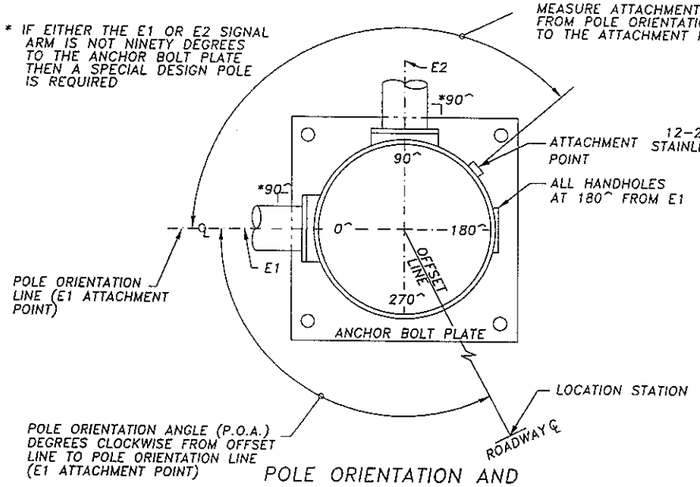
FAX: (425)489-2705

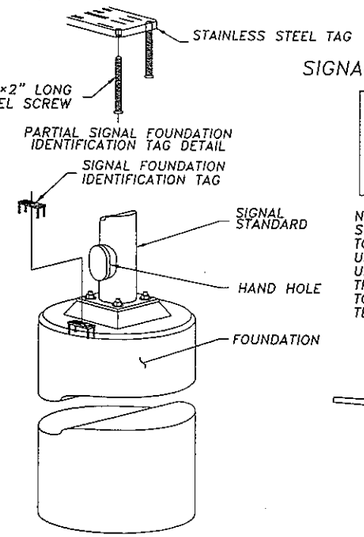
PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
168TH AVE NE SIGNAL NOTES & DETAILS

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: N/A
SHEET X OF X	
DRAWING NO.: 8.22	



POLE ORIENTATION AND ATTACHMENT POINT DETAIL



OBLIQUE VIEW

REINFORCING AND ANCHOR BOLTS NOT SHOWN FOR CLARITY

SIGNAL FOUNDATION IDENTIFICATION TAG DETAIL

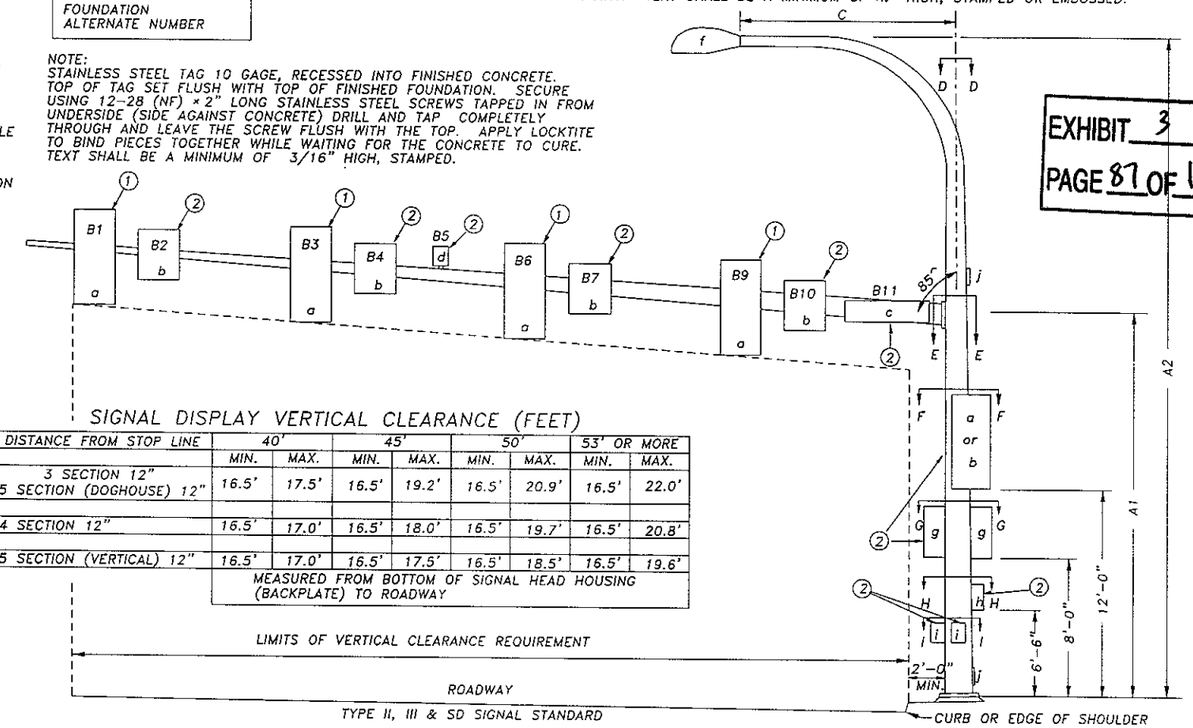
FOUNDATION DEPTH	
FOUNDATION SHAPE	SQUARE OR ROUND
FOUNDATION DIMENSION	DIAMETER OR WIDTH
FOUNDATION ALTERNATE NUMBER	

NOTE:
STAINLESS STEEL TAG 10 GAGE, RECESSED INTO FINISHED CONCRETE. TOP OF TAG SET FLUSH WITH TOP OF FINISHED FOUNDATION. SECURE USING 12-28 (NF) × 2" LONG STAINLESS STEEL SCREWS TAPPED IN FROM UNDERSIDE (SIDE AGAINST CONCRETE) DRILL AND TAP COMPLETELY THROUGH AND LEAVE THE SCREW FLUSH WITH THE TOP. APPLY LOCKTITE TO BIND PIECES TOGETHER WHILE WAITING FOR THE CONCRETE TO CURE. TEXT SHALL BE A MINIMUM OF 3/16" HIGH, STAMPED.

SIGNAL STANDARD IDENTIFICATION TAG DETAIL

		EXAMPLE
STD. NO. XX	SIGNAL STANDARD NO.	STD. NO. 02
MANUFACTURER	MANUFACTURER	UNITED POLE INC.
APPROVED DWG. XXXXXX	APPROVED DRAWING NO.	APPROVED DWG. AB12345
FAB. X/XX/XXXX	FABRICATION DATE	FAB. 6/14/2002

NOTE: CORROSION RESISTANT METAL TAG SECURED WITH (2) 0.125" RIVETS AS FOLLOWS: POLE SHAFT – LOCATED WITHIN 6" ABOVE HAND HOLE, SIGNAL AND LUMINAIRE MAST ARM – LOCATED WITHIN 6" OF THE POLE SHAFT CONNECTION POINT. TEXT SHALL BE A MINIMUM OF 3/16" HIGH, STAMPED OR EMBOSSED.



TYPE II, III & SD SIGNAL STANDARD

EXHIBIT 3
PAGE 87 OF 114

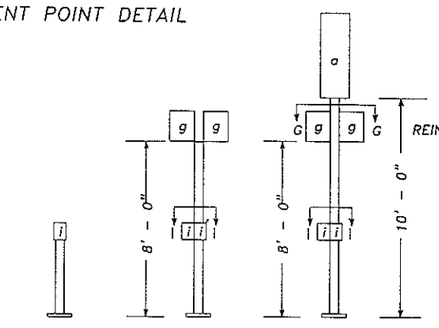
NOTES

(1) Mounting Coupling installed at offset distance indicated in chart.

(2) Field installed.
Sign b - 7.5 SQ. FT. sign area (max.) and sign height 3 FT. (max.)
Sign c - 36 SQ. FT. sign area (max.) installed 2' max. to sign edge from post and sign height 3 FT. (max.)

ALTERNATE NOTE 1 FOR TYPE N MOUNT ONLY.

(1) Drill 1" diam. hole in mast arm and install plastic split bushing for cable entrance.



TYPE PPB PPB POST — TYPE PS PED. HEAD STANDARD — TYPE I VEHICLE HEAD STANDARD

LEGEND

a. Vehicle Display
b. Sign
c. Street Name Sign
d. Pre-Empt Detector
e. Deleted (10/22/90)
f. Luminaire
g. Pedestrian Display
h. Cabinet
i. PPB-M
j. Handhole

SIGNAL DISPLAY VERTICAL CLEARANCE (FEET)

DISTANCE FROM STOP LINE	40'		45'		50'		53' OR MORE	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
3 SECTION 12" 5 SECTION (DOGHOUSE) 12"	16.5'	17.5'	16.5'	19.2'	16.5'	20.9'	16.5'	22.0'
4 SECTION 12"	16.5'	17.0'	16.5'	18.0'	16.5'	19.7'	16.5'	20.8'
5 SECTION (VERTICAL) 12"	16.5'	17.0'	16.5'	17.5'	16.5'	18.5'	16.5'	19.6'
	MEASURED FROM BOTTOM OF SIGNAL HEAD HOUSING (BACKPLATE) TO ROADWAY							

LIMITS OF VERTICAL CLEARANCE REQUIREMENT

SIGNAL STANDARD DETAIL CHART

STD. NO.	ROADWAY	FIELD LOCATION STATION	OFFSET	LT.	RT.	P.O.A.	POLE TYPE	MOUNTING HEIGHT(FT) A1	A2	MAST ARM LENGTH	SIGNAL MAST ARM DATA: OFFSET DISTANCES(FT) (Z) (POLE ' TO ATTACHMENT POINT) B1	B2	B3	VIDEO	B5	B6	B11	WINDLOAD AREAS (FT)Â (X)(Y) B1	B2	B3	B4	B6	B11	(X)(Y)(Z) WINDLOAD *TOTAL(FT)Â	LUM ARM(FT) C	POLE ATTACHMENT POINT ANGLES (deg) D	E1	E2	F	G1	G2	H	I1	I2	**FOUNDATION DEPTHS(FT) ALTERNATE 1 3'RD.	3'SQ.	4'RD.	ALTERNATE 2 3'RD.	4'RD.	*** ELEV	**** SOIL (PSF)	REMARKS
1	WDR-LINE	52+33.0	36.5'	X			PS																							(1)			0									FDN PER WSDOT STD. PLAN J-20.16-00
2	WDR-LINE	52+60.0	28.0'	X		90°	III	18'	35'	30'	25.5	29.5	17.5	23	20.5		9.5	9.2	5.0	9.2			21.0	792	10	0	0			0		180	0		10	8	8	---	---	---	1,000	---
3	WDR-LINE	52+58.0	36.5'		X	0°	III	18'	35'	40'	36		28	24	32	20	13	11.6		9.2		9.2	12.5	1,021	10	0	0			90	180	135	0	270	11	9	9	---	---	---	1,000	---
4	WDR-LINE	52+05.5	33.5'		X		PS																							(1)			0									FDN PER WSDOT STD. PLAN J-20.16-00
5	WDR-LINE	51+74.0	24.5'		X	90°	III	18'	35'	35'	29.5	33.5	18	22	26		8.5	9.2	5.0	11.6			21.0	783	10	0	0			180		90	180		10	8	8	---	---	---	1,000	---
6	WDR-LINE	51+67.0	38.5'	X		0°	III	18'	35'	40'	38		30	26	34	22	15	11.6		9.2		9.2	12.5	1,107	10	0	0			90	180	135	0	270	11	9	9	---	---	---	1,000	---

*TOTAL(FT)Â= CALCULATED WINDLOAD + FUTURE WINDLOAD
**SEE SIGNAL STANDARD FOUNDATION DETAIL SHEET FOR FOUNDATION DETAILS
***ELEVATION (FEET) AT TOP OF FOUNDATION
****LATERAL BEARING PRESSURE (PSF)

(1) NOT APPLICABLE; USES TYPE D TOP MOUNT.

** FOUNDATION DEPTHS ARE BASED ON 1,000 PSF DESIGN LATERAL BEARING PRESSURE, PER RECOMMENDATIONS BY TERRACON CONSULTANTS, INC. IDENTIFIED IN THE: GEOTECHNICAL ENGINEERING REPORT DRAFT, 7/29/10.

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CONTACT: CHRIS BICKET, P.E.

PRELIMINARY

P.E. STAMP BOX

NO.	REVISION	DATE	BY	CK
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4				
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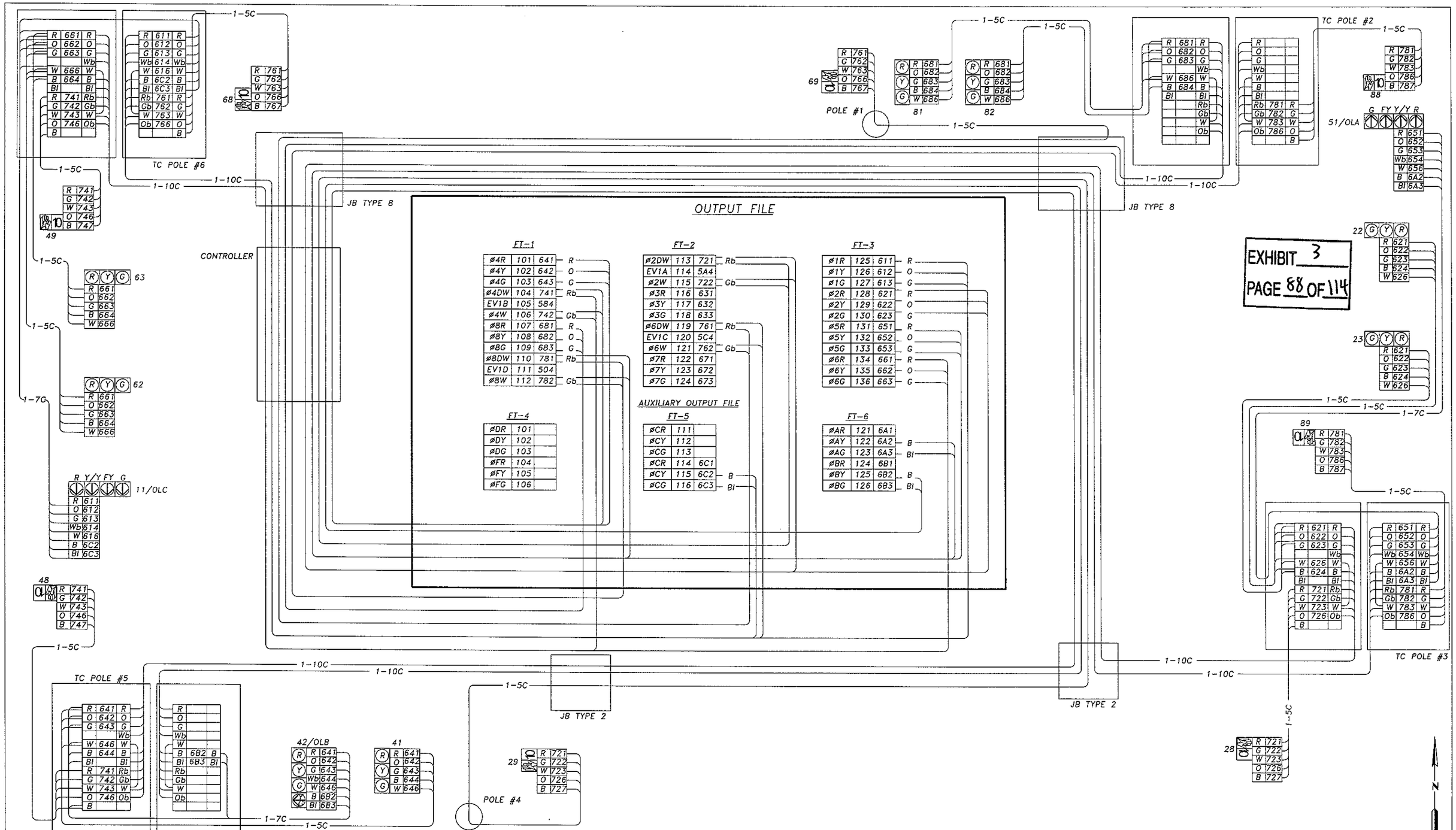
CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE–DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
168TH AVE NE SIGNAL POLE CHART

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: N/A
SHEET X OF X	
DRAWING NO.: 8.23	

Plotted: Oct 17, 2011 – 4:35pm Erik Preston C:\Users\Erik Preston\Documents\TEMP ACTIVE\Design\Woodinville-Duvall Road Widening\CAD\WDR Master Signal.dwg Layout Name: 8.23



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PROJECT INFORMATION

WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:

168TH AVE NE WIRING DIAGRAM

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: N/A
SHEET X OF X	
DRAWING NO.: 8.24	

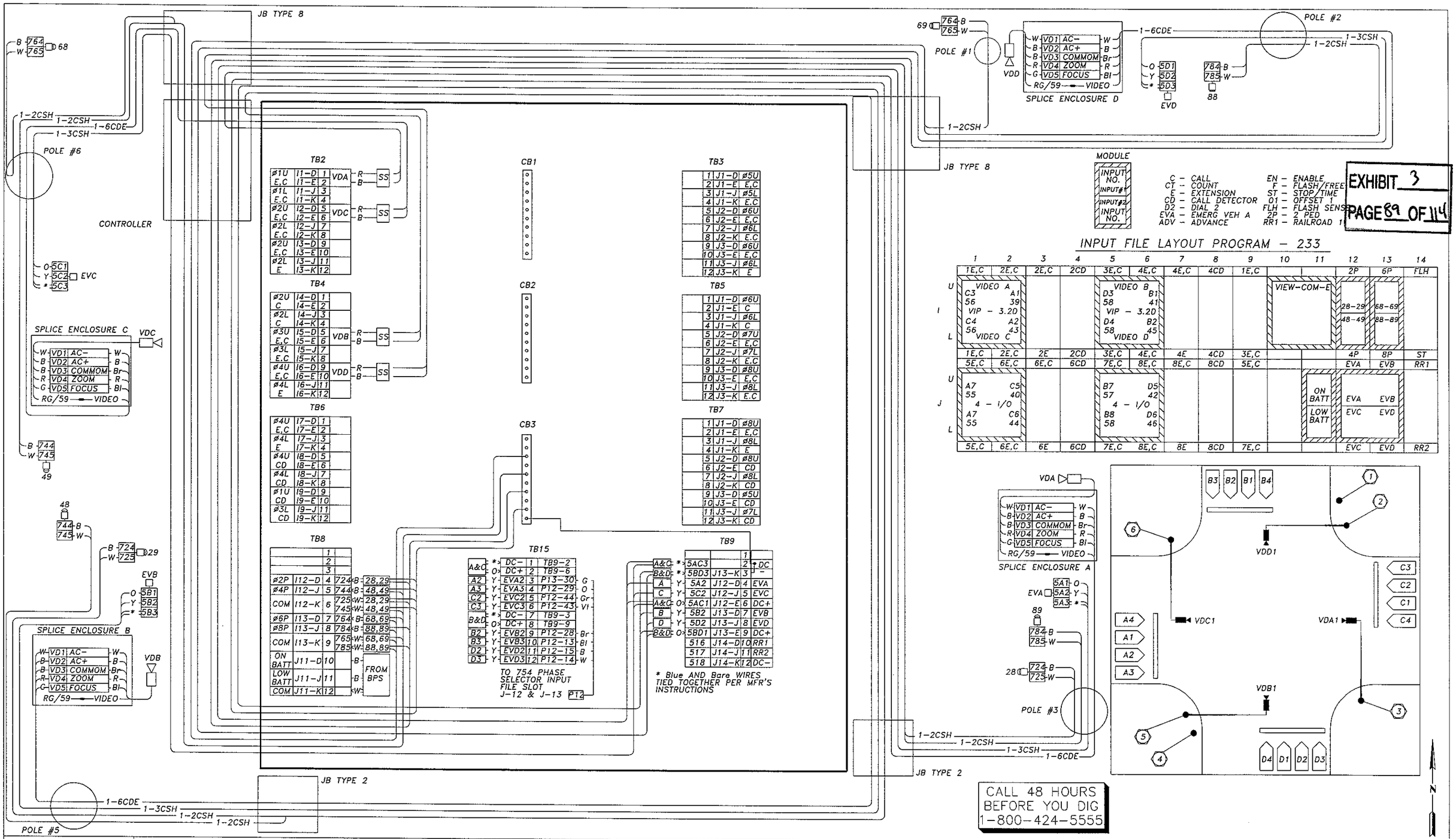

EXHIBIT 3
PAGE 89 OF 114

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PRELIMINARY DRAFT

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PROJECT INFORMATION

WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:

168TH AVE NE WIRING DIAGRAM

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: N/A
SHEET X OF X	
DRAWING NO.: 8.25	

CONSTRUCTION NOTES

CABINET

THE CABINET SHALL BE FABRICATED FROM #12 GA. 5052-H32 ALUMINUM WELDED SEAM AND PAINTED WITH ASA 61 GRAY (OUTSIDE) AND WHITE (INSIDE) OVEN BAKED ENAMEL AND BE RATED NEMA 3R. DIMENSIONS SHOWN ARE NOMINAL AND SHALL BE ADJUSTED TO ACCOMMODATE THE VARIOUS SIZES OF EQUIPMENT INSTALLED BY THE CONTRACTOR. THE CABINET SHALL INCLUDE TWO RAINTIGHT, SCREENED AND GASKETED VENTS. ALL DOORS SHALL BE FULLY CLOSED CELL NEOPRENE GASKETED, ATTACHED BY CONCEALED LIFT OFF TYPE FULL LENGTH STAINLESS STEEL PIANO HINGES AND PROVIDED WITH 3 POINT LATCH PADLOCKABLE VAULT HANDLES. HINGES SHALL HAVE BRASS PINS. THE BREAKER PANEL COMPARTMENT DOOR SHALL BE FURNISHED WITH A THREE-POINT, SPRING-LOADED HITCH AND A BEST CX CONSTRUCTION CORE. THE METER COMPARTMENT DOOR SHALL BE PROVIDED WITH TWO 4" X 6" POLISHED WIRE GLASS WINDOWS.

METER

METERING ARRANGEMENTS MAY VARY WITH DIFFERENT SERVING UTILITIES. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS WITH THE UTILITY PRIOR TO FABRICATING THE SERVICE EQUIPMENT.

BREAKER PANEL COMPARTMENT

ALL BUSSWORK SHALL BE HIGH GRADE COPPER AND SHALL EQUAL OR EXCEED THE MAIN BREAKER RATING. ALL CIRCUIT BREAKERS SHALL BOLT TO THE BUSSWORK. JUMPERING OF BREAKERS IS NOT ALLOWED.
ALL BREAKERS AND CONTACTORS WITHIN THE SERVICE ENCLOSURE SHALL HAVE APPROPRIATELY ENGRAVED PHENOLIC NAMEPLATES IDENTIFYING THE RESPECTIVE CIRCUITS. THE NAMEPLATES SHALL BE ATTACHED BY EITHER SCREW OR RIVET. FOR BREAKER RATING AND CONTACTOR SIZES, SEE THE EQUIPMENT SCHEDULE THIS SHEET. ALL INTERNAL WIRE RUNS SHALL BE IDENTIFIED WITH TO-FROM CODED TAGS LABELED WITH NUMBERS SHOWN ON THE SCHEDULE. APPROVED PVC WIRE MARKING SLEEVES SHALL BE USED FOR THIS PURPOSE. ALL WIRE SUPPLYING POWER TO THE STRIP HEATER SHALL BE HEAT RESISTANT TYPE.

GROUNDING

SERVICE FOUNDATION AND SIGNAL POLE FOUNDATIONS SHALL BE CONSTRUCTED WITH CONCRETE-ENCASED GROUND ELECTRODE PER GROUNDING DETAILS AND NEC.

SERVICE CABINET LEGEND

1. METER BASE, 125A, 4 JAW, 600V, MILLBANK #U3504, BY-PASS BLOCKS
2. PANELBOARD, 120/240V, 3 WIRE, 100A MAIN, SERVICE ENTRANCE LABEL
3. SIGNAL BREAKER, SQUARE-D QOB 150
4. BRANCH BREAKERS
5. TEST SWITCH (SPST, 10 AMP, 125 V. "T" RATED)
6. PHOTOELECTRIC CONTROL, STD. SPEC 9-29.11(2)
7. CONTACTOR (SEE BREAKER SCHEDULE)
8. NEUTRAL BUSS, 10 LUG. #2 - #14
9. PHOTO CONTROL BREAKER
10. RECEPTACLE BREAKER (GFI SPST, 125 V. "T" RATED)
11. RECEPTACLE, GROUNDED(20 AMP-120 V)
12. HEATER BREAKER (SPST, 125 V.)
13. THERMOSTAT, 40°F CLOSURE - 3°F DIFFERENTIAL
14. STRIP HEATER (100 WATT NOMINAL)
15. PHOTOCELL ENCLOSURE - ENCLOSURE TO BE FABRICATED FROM 5/8" EXPANDED STEEL MESH WITH WELDED SEAMS AND MOUNTING FLANGES. HOT DIP AFTER FABRICATION. SEE PHOTOCELL ENCLOSURE MOUNTING DETAIL, STD. PLAN J-3b
16. RADAR SPEED SIGN 15 A PST
17. GROUND CONDUCTOR (#8 MIN) CAD-WELDED TO FOUNDATION REBAR. WRAP CONDUCTOR WITH 2" WIDE PIPE TAPE FOR 2" ABOVE AND BELOW TOP OF FOUNDATION

156TH SERVICE CABINET BREAKER SCHEDULE

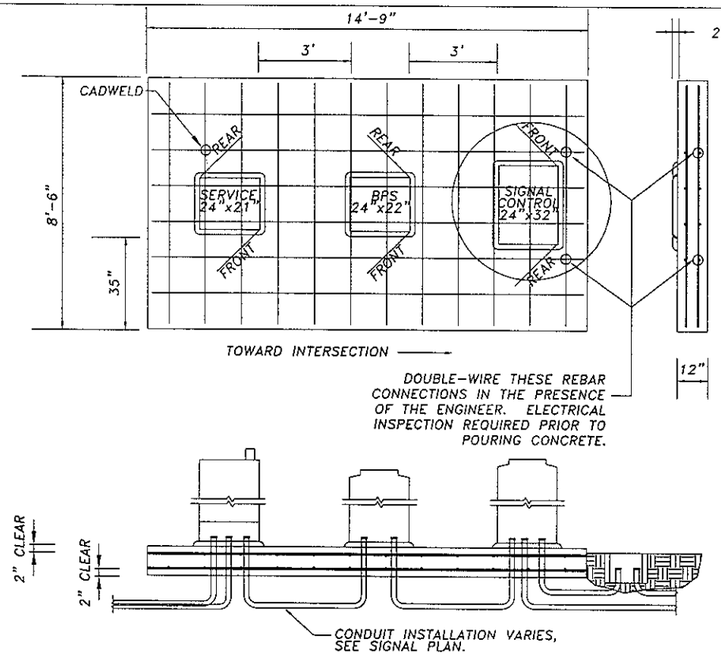
△	CIRCUIT	BREAKER RATING	LOAD (KVA)	WIRE SIZE (MIN)
2	MAIN	100 A D.P.	N.A.	# 2
4	A ILLUM	30 A D.P.	1.8	# 8
4	B ILLUM	30 A D.P.	1.8	# 8
3	C SIG	30 A	1.0	# 10
9	CNTRL	15 A	0.1	# 12
10	DPLX	20 A	2.4	# 12
12	HEATR	15 A	0.1	# 12
16	RADAR	15 A	1.0	# 8

160TH SERVICE CABINET BREAKER SCHEDULE

△	CIRCUIT	BREAKER RATING	LOAD (KVA)	WIRE SIZE (MIN)
2	MAIN	100 A D.P.	N.A.	# 2
4	A ILLUM	30 A D.P.	1.8	# 8
4	B ILLUM	30 A D.P.	1.8	# 8
3	C SIG	30 A	1.0	# 10
9	CNTRL	15 A	0.1	# 12
10	DPLX	20 A	2.4	# 12
12	HEATR	15 A	0.1	# 12

168TH SERVICE CABINET BREAKER SCHEDULE

△	CIRCUIT	BREAKER RATING	LOAD (KVA)	WIRE SIZE (MIN)
2	MAIN	100 A D.P.	N.A.	# 2
4	A ILLUM	30 A D.P.	1.8	# 8
4	B ILLUM	30 A D.P.	1.8	# 8
3	C SIG	30 A	1.0	# 10
9	CNTRL	15 A	0.1	# 12
10	DPLX	20 A	2.4	# 12
12	HEATR	15 A	0.1	# 12
16	RADAR	15 A	1.0	# 8

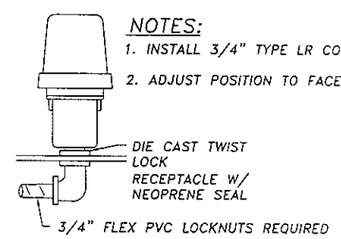


CONTROLLER/BPS/SERVICE FOUNDATION DETAIL
N.T.S.

BAR LIST

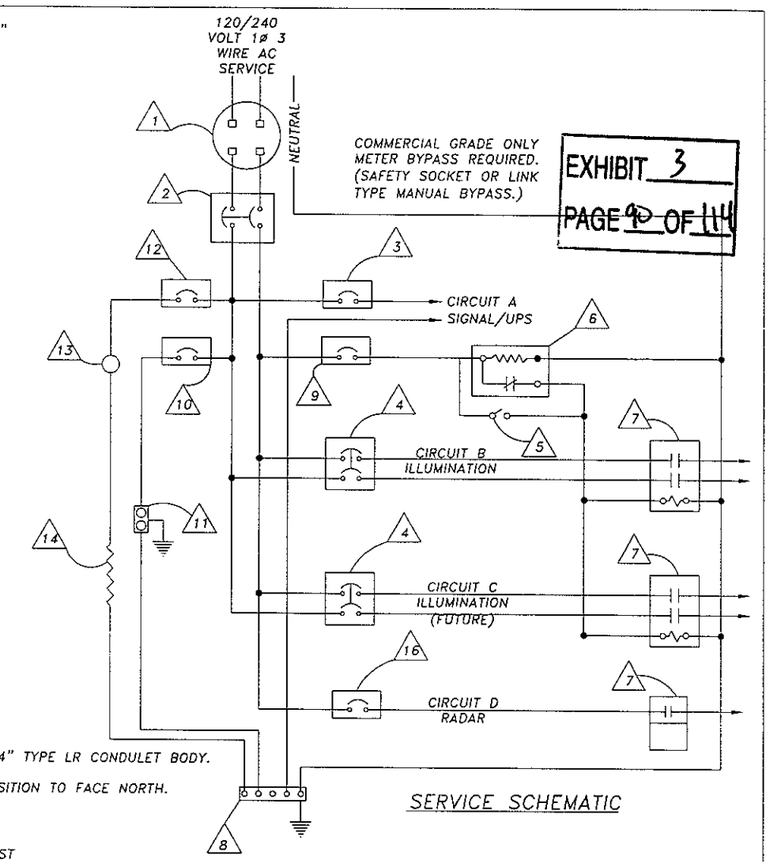
MARK	EPOXY	SIZE	QUANTITY	LENGTH EACH	TOTAL WEIGHT
10	N/A	4	24	8'-0"	130 LBS.
15	N/A	6	12	14'-3"	262 LBS.

NOTE:
ALL REINFORCING BARS ON THIS SHEET SHALL BE ASTM A-615 GRADE 60 UNLESS SHOWN OTHERWISE.

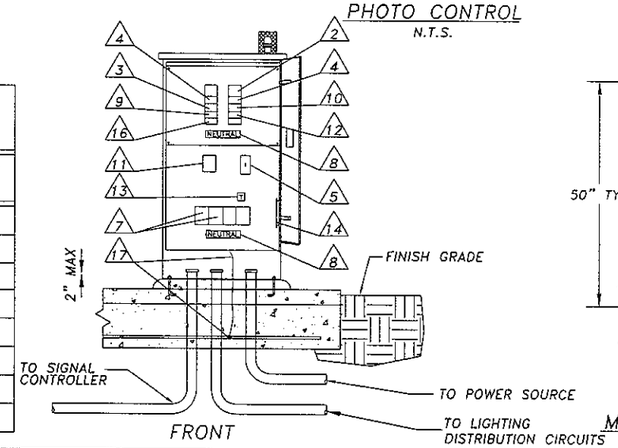


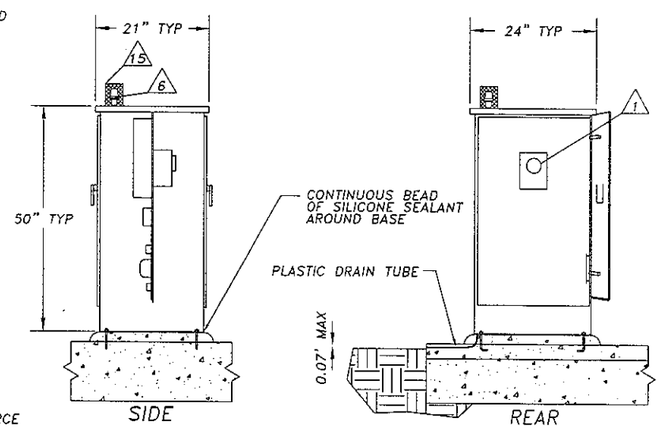
NOTES:
1. INSTALL 3/4" TYPE LR CONDULET BODY.
2. ADJUST POSITION TO FACE NORTH.

PHOTO CONTROL
N.T.S.



SERVICE SCHEMATIC





MODIFIED TYPE D ELECTRICAL SERVICE CABINET DETAILS
N.T.S.

EXHIBIT 3
PAGE 40 OF 114

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CITY OF WOODINVILLE
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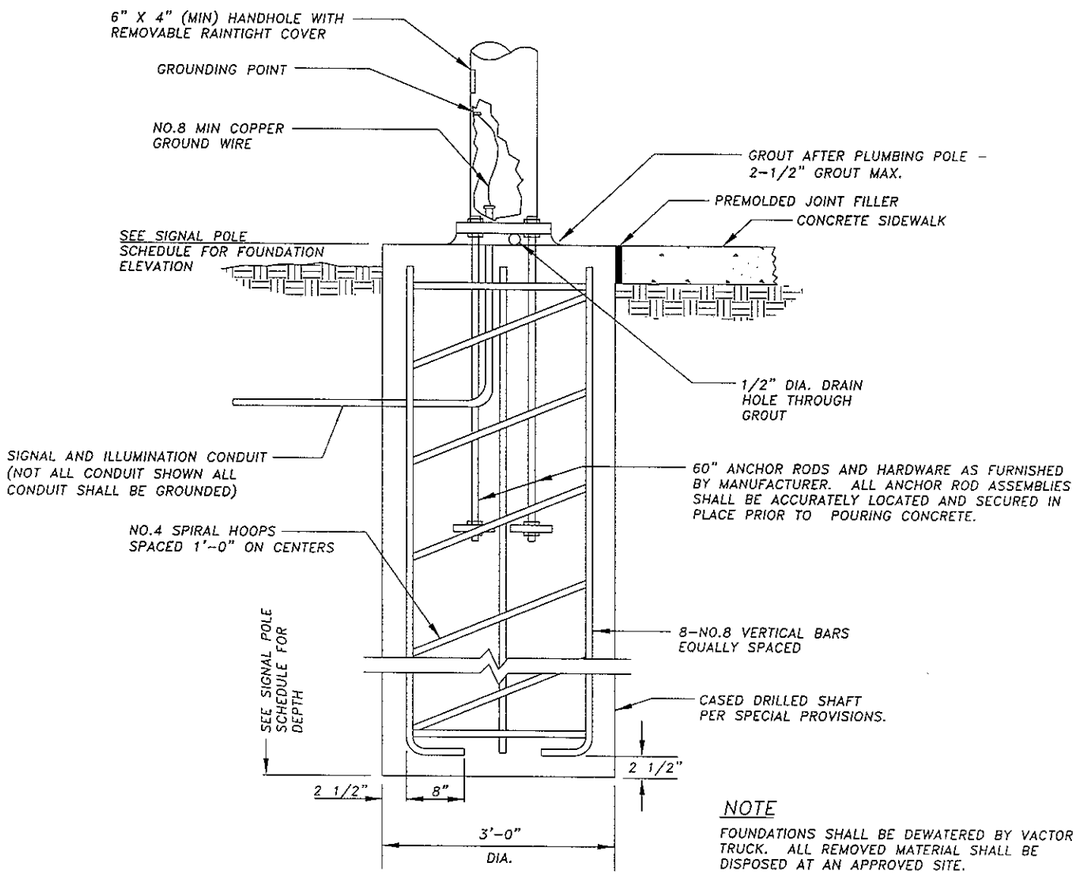
PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
CONTROLLER/ SERVICE/BPS DETAILS

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: N/A
SHEET X OF X	
DRAWING NO.: 8.31	

Plotted: Oct 11, 2011 - 11:20am Erik Preston C:\Users\Erik Preston\Documents\TEMP ACTIVE\Design\Woodinville-Duvall Road Widening\CAD\WDR Meeker Signal.dwg Layout Name: 8.31

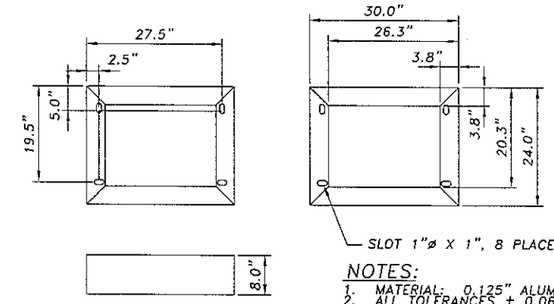


NOTE

FOUNDATIONS SHALL BE DEWATERED BY VACTOR TRUCK. ALL REMOVED MATERIAL SHALL BE DISPOSED AT AN APPROVED SITE.

SIGNAL POLE FOUNDATION DETAIL

NOT TO SCALE



NOTES:

1. MATERIAL: 0.125" ALUMINUM 5052-H32.
2. ALL TOLERANCES ± 0.063".
3. HOLE PATTERN ON BOTTOM IS IDENTICAL TO TOP.
4. ALL SEAMS FULL WELD AND GRIND FLAT.
5. FINISH: CLEAR ANODIZE.
6. INSTALL WITH 30LB (MIN) BUILDER'S PAPER BETWEEN RISER AND CABINET, AND BETWEEN RISER AND FOUNDATION.

332/334 CABINET RISER

N.T.S.

EXHIBIT 3
PAGE 91 OF 114

TRAFFIC SIGNAL GENERAL NOTES

1. THE LOCATION OF ALL CONDUIT, JUNCTION BOXES, AND CABINETS SHOWN ON THIS PLAN ARE FOR APPROXIMATE ONLY AND FINAL LOCATIONS SHALL BE CONFIRMED BY THE ENGINEER OR CITY INSPECTOR.
2. ALL TRAFFIC SIGNAL AND PEDESTRIAN HEADS AND PUSH BUTTONS SHALL BE SECURELY AND COMPLETELY COVERED WHILE SIGNAL IS NOT IN OPERATION.
3. JUNCTION BOXES SHALL BE PLACED OUTSIDE OF PAVEMENT SURFACE AND SIDEWALK RAMPS UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER.
4. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF WOODINVILLE STANDARDS AND SPECIFICATIONS.
5. THE LOCATIONS OF FEATURES SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AS NECESSARY.
6. ALL WORK SHALL BE CONSISTENT WITH UTILITY AGENCY REQUIREMENTS. THE CONTRACTOR SHALL CONTACT ALL PERTINENT UTILITY AGENCIES 48 HOURS BEFORE COMMENCING WORK, AND SHALL COORDINATE WITH AFFECTED UTILITY AGENCIES THROUGHOUT THE PROJECT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE AFFECTED UTILITY COMPANY AND THE CITY OF REDMOND IMMEDIATELY UPON DAMAGE.
8. SEE THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS RELATED TO THIS CONTRACT.
9. EXISTING FEATURES TO REMAIN UNLESS OTHERWISE NOTED.
10. ALL CONDUCTORS FOR SIGNAL HEADS, PEDESTRIAN HEADS, PUSHBUTTONS, AND STREET LIGHTS SHALL BE LABELED IN EACH JUNCTION BOX.
11. ALL NEW TRAFFIC SIGNAL POLE FOUNDATION LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION. FOR TRAFFIC SIGNAL POLE FOUNDATIONS, THE CONTRACTOR SHALL CHECK FOR MINIMUM OVERHEAD CLEARANCE OF 16'6" FOR ALL SIGNAL HEADS ABOVE THE STREET PRIOR TO POURING OF FOUNDATION.
12. AS PART OF THE DESIGN PROCESS, THE ENGINEER HAS ATTEMPTED TO CONFIRM THAT THERE ARE NOT CONFLICTS WITH OVERHEAD POWER LINES OR SUBSURFACE UTILITIES. HOWEVER, IT IS POSSIBLE FOR THE EXISTING OR PROPOSED CONDITIONS TO CHANGE PRIOR TO IMPLEMENTATION OF THE SCOPE OF WORK IDENTIFIED ON THESE DOCUMENTS. AS THE FIRST ORDER OF BUSINESS, THE CONTRACTOR SHALL POTHOLE EACH NEW SIGNAL POLE AND LUMINAIRE POLE LOCATION TO CONFIRM THAT THERE ARE NOT CONFLICTS WITH SUBSURFACE UTILITIES. ADDITIONALLY, THE CONTRACTOR SHALL CONFIRM THAT THERE IS A MINIMUM 10-FT CLEARANCE PROVIDED BETWEEN OVERHEAD POWER LINES AND THE PROPOSED LUMINAIRE POLES PRIOR TO POLE PLACEMENT. ADDITIONAL CLEARANCE MAY BE REQUIRED AS DIRECTED BY THE UTILITY. THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY IF A CONFLICT IS DISCOVERED.
13. CONTRACTOR SHALL SUPPLY POLICE OFFICER(S) WHILE SIGNAL IS IN SHUT DOWN OR IN FLASHING RED MODE. SIGNAL SHUT DOWN OR RED FLASHING MODE SHALL BE LIMITED TO WORKING HOURS ONLY.

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PRELIMINARY

P.E. STAMP BOX

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PROJECT INFORMATION

WOODINVILLE-DUVALL ROAD WIDENING PROJECT

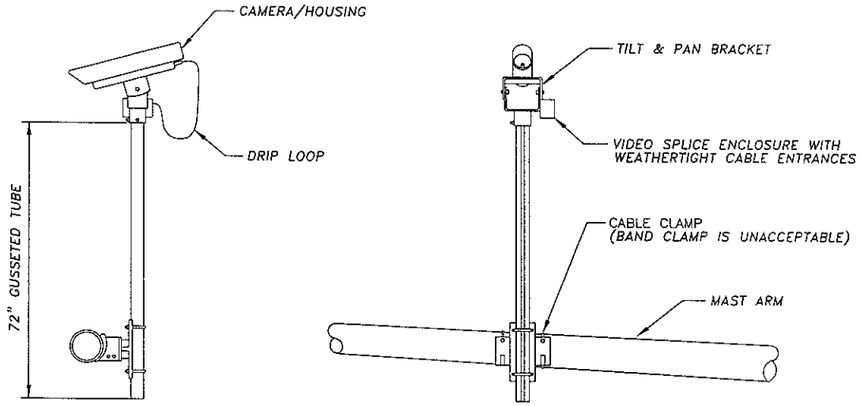
SHEET TITLE:

FOUNDATION & RISER DETAILS & SIGNAL NOTES

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: N/A
SHEET X OF X	
DRAWING NO.: 8.32	

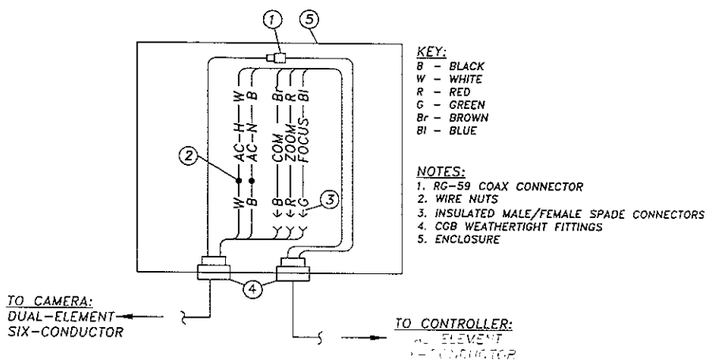
Plotted: Oct 11, 2011 – 11:20am Eric Preston C:\Users\Eric Preston\Documents\TENW ACTIVE\Design\Woodinville-Duvall Road Widening\CAD\WDR Master Signal.dwg Layout Name: 8.32

EXHIBIT 3
PAGE 92 OF 114



CAMERA MAST-ARM MOUNTING

N.T.S.

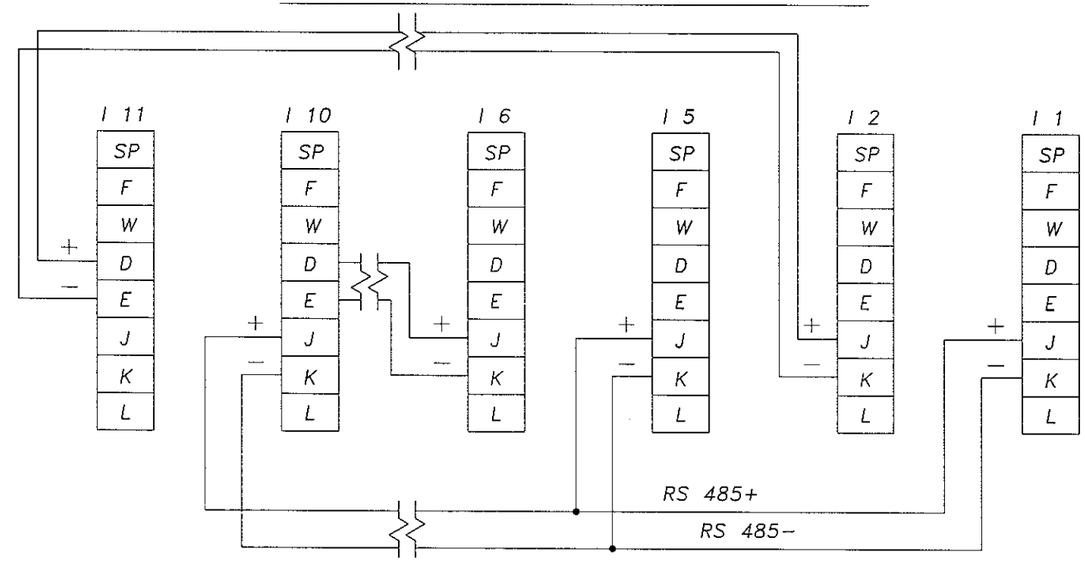


KEY:
B - BLACK
W - WHITE
R - RED
G - GREEN
Br - BROWN
Bl - BLUE

NOTES:
1. RG-59 COAX CONNECTOR
2. WIRE NUTS
3. INSULATED MALE/FEMALE SPADE CONNECTORS
4. CGB WEATHERTIGHT FITTINGS
5. ENCLOSURE

VIDEO SPLICE ENCLOSURE

INPUT FILE WIRING MODIFICATIONS FOR VIEWCOM



THIS IS A VIEW OF THE BACK SIDE OF THE INPUT FILE.

NOTES:

1. NOT ALL TERMINAL STRIPS ARE SHOWN.
2. REMOVE ALL EXISTING WIRES CONNECTED TO I-10 AND I-11.
3. REMOVE ANY EXISTING WIRES CONNECTED TO:
   I-1 J,K; I-2 J,K; I-5 J,K; AND I-6 J,K.
4. SEAL ALL DISCONNECTED WIRE TERMINALS WITH HEAT-SHRINK.
5. INSTALL SHIELDED 2-CONDUCTOR WIRE WITH SPADE TERMINALS CRIMPED TO EACH END TO THE TERMINALS INDICATED.

VIDEO DETECTION NOTES:

1. ALL GROMMET ENTRANCES SHALL BE SUITABLE FOR THE SIZE AND SHAPE OF CABLE.
2. CAMERA ROTATION IN HOUSINGS TO BE ADJUSTED TO PROVIDE LEVEL MONITOR PICTURE.
3. DRIP LOOP SHALL BE 6 TO 8 INCHES.
4. ALL HARDWARE FASTENERS SHALL BE STAINLESS STEEL, TORQUED TO MANUFACTURER'S RECOMMENDATIONS WITH LOCKNUTS.
5. POWER LEADS SHALL BE INSTALLED WITH SUITABLE COPPER OPEN SPADES.
6. BNC CONNECTORS SHALL CONFORM TO VIDEO VENDORS RECOMMENDATION.
7. CONTRACTOR SHALL UTILIZE TOOLS AS RECOMMENDED BY VIDEO VENDOR.
8. TILT AND PAN BRACKET, SENSOR BRACKET SHALL BE ALODINED ALUMINUM.
9. THE UNIVERSAL HUB PLATE SHALL BE CAST ALUMINUM - 6063-T6.
10. ALL FASTENER PENETRATIONS OF CABINET SHALL BE SEALED WITH APPROVED METHOD.

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PRELIMINARY

CHRISTOPHER T. BICKET, STATE OF WASHINGTON, 23633, REGISTERED PROFESSIONAL ENGINEER

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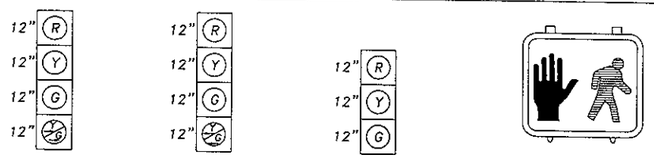
PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
VIDEO DETECTION CAMERA DETAILS

DATE: MARCH 2011	CHECKED BY: CTB
DESIGNED BY: GMD	PROJECT NO.: PW10-XXXX
DRAWN BY: GMD	SCALE: N/A
SHEET X OF X	
DRAWING NO.: 8.33	

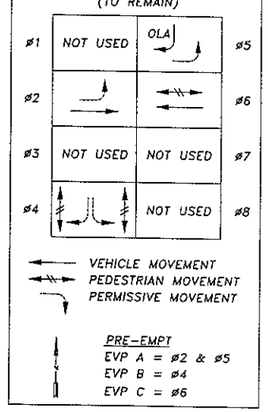
Plotted: Oct 11, 2011 - 11:20am Erik Preston C:\Users\Erik Preston\Documents\VENV ACTIVE\Design\Woodinville-Duvall Road Widening\CAD\WDR Master Signal.dwg Layout Name: 8.33

SIGNAL DISPLAYS



RELOCATE EXISTING VEHICLE SIGNAL HEADS/MOUNTS TO NEW SPAN WIRE. RELOCATE EXISTING PEDESTRIAN HEADS AND PUSHBUTTONS TO NEW POLES PER CONSTRUCTION NOTES, THIS SHEET.

PHASE DIAGRAM



SIGNAL GENERAL NOTES

1. THE LOCATION OF ALL CONDUIT, JUNCTION BOXES, AND CABINETS SHOWN ON THIS PLAN ARE FOR GRAPHIC REPRESENTATION ONLY AND FINAL LOCATIONS SHALL BE DETERMINED BY THE ENGINEER OR CITY INSPECTOR.
2. ALL TRAFFIC SIGNAL AND PEDESTRIAN HEADS AND PUSH BUTTONS SHALL BE SECURELY AND COMPLETELY COVERED WHILE SIGNAL IS NOT IN OPERATION.
3. JUNCTION BOXES SHALL BE PLACED OUTSIDE OF PAVEMENT SURFACE AND WHEELCHAIR RAMPS UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER.
4. ALL WORK SHALL BE IN ACCORDANCE WITH CITY OF WOODINVILLE STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE SPECIFIED.
5. THE LOCATIONS OF FEATURES SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AS NECESSARY.
6. THE CONTRACTOR SHALL SUBMIT A REQUEST TO THE INSPECTOR FOR MATERIALS APPROVAL AT THE EARLIEST POSSIBLE DATE.
7. ALL WORK SHALL BE CONSISTENT WITH UTILITY AGENCY REQUIREMENTS. THE CONTRACTOR SHALL CONTACT ALL PERTINENT UTILITY AGENCIES 48 HOURS BEFORE COMMENCING WORK, AND SHALL COORDINATE WITH AFFECTED UTILITY AGENCIES THROUGHOUT THE PROJECT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE AFFECTED UTILITY COMPANY AND THE CITY OF WOODINVILLE IMMEDIATELY UPON DAMAGE.
9. THE CURRENT EDITION OF THE CITY OF WOODINVILLE STANDARD SPECIFICATIONS AND DETAILS SHALL BE CONSIDERED PART OF THIS CONTRACT.
10. CONTRACTOR SHALL PROVIDE AND INSTALL A TEMPORARY VIDEO DETECTION SYSTEM.
11. THE CONTRACTOR SHALL CONFIRM THAT 10 FEET MINIMUM CIRCUMFERENTIAL CLEARANCE IS PROVIDED BETWEEN SIGNAL/LUMINAIRE POLES AND OVERHEAD POWER LINES. IF A CONFLICT IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO FOUNDATION INSTALLATION.
12. CHANNELIZATION SHOWN IS APPROXIMATE AND MAY VARY AS CONSTRUCTION ACTIVITY REQUIRES. SEE APPROVED TRAFFIC CONTROL PLANS AND APPROVED CONSTRUCTION STAGING PLANS.

TRAFFIC SIGNAL CONSTRUCTION NOTES

(1) INSTALL 40' CLASS 2 TIMBER STRAIN POLE WITH A SINGLE DOWN GUY PER WSDOT STANDARD PLAN J-7d. INSTALL 250 WATT HPS M-C-III COBRA HEAD LUMINAIRE ON 16-FOOT ARM AT 34' MOUNTING HEIGHT. INSTALL VIDEO DETECTION CAMERAS AND MOUNTS AS SHOWN. POLE LOCATION SHOWN IS APPROXIMATE. FINAL LOCATION OF POLE SHALL BE APPROVED BY THE PROJECT INSPECTOR IN THE FIELD. SPAN SHOWN IS 100'; SPAN SHALL NEVER EXCEED 150'.

(2) DETACH EXISTING SPAN WIRE AND APPURTENANCES. ATTACH NEW SPAN WIRE AND APPURTENANCES TO EXISTING TIMBER STRAIN POLE. EXISTING PEDESTRIAN HEADS AND PUSHBUTTONS TO REMAIN.

(3) INSTALL 40' CLASS 2 TIMBER STRAIN POLE WITH A SINGLE DOWN GUY PER WSDOT STANDARD PLAN J-7d. INSTALL 250 WATT HPS M-C-III COBRA HEAD LUMINAIRE ON 16-FOOT ARM AT 34' MOUNTING HEIGHT. INSTALL VIDEO DETECTION CAMERA AS SHOWN. RELOCATE EXISTING PEDESTRIAN PUSHBUTTONS AND HEADS TO NEW POLE. POLE LOCATION SHOWN IS APPROXIMATE. FINAL LOCATION OF POLE SHALL BE APPROVED BY THE PROJECT INSPECTOR IN THE FIELD. SPAN SHOWN IS 105'; SPAN SHALL NEVER EXCEED 150'.

(4) INSTALL 4X4 WOOD POST WITH ONE PEDESTRIAN SIGNAL DISPLAY AND ONE PUSHBUTTON ASSEMBLY. PUSHBUTTON ASSEMBLY AND PEDESTRIAN SIGNAL DISPLAY SHALL BE RELOCATED FROM EXISTING TIMBER POLE. LOCATION OF POST SHOWN IS APPROXIMATE. FINAL LOCATION OF POST SHALL BE APPROVED BY THE PROJECT INSPECTOR IN THE FIELD.

(5) REMOVE EXISTING LOOP DETECTOR CONDUCTORS BACK TO THE CONTROLLER. REMOVE EXISTING JUNCTION BOX AND CONDUIT BENDS. FILL AND COMPACT VOID. ABANDON EXISTING CONDUIT.

(6) REMOVE EXISTING TIMBER STRAIN POLE AND SPAN WIRE. RELOCATE EXISTING SIGNAL HEADS, SIGNS, AND PREEMPTION DETECTORS TO THE NEW SPAN WIRE.

(7) COORDINATE SIGNAL SHUT-DOWN/CUT-OVER WITH CITY OF WOODINVILLE SIGNAL MAINTENANCE. FURNISH AND INSTALL VIDEO DETECTION SYSTEM, INCLUDING CAMERA AND CONTROLLER UNIT.

(8) SPLICE NEW ILLUMINATION CONDUCTORS TO EXISTING ILLUMINATION CONDUCTORS IN EXISTING JUNCTION BOX.

(9) SEE SIGNAL HEAD ALIGNMENT DETAILS, SHEET 8.36, FOR MIN./MAX. DIMENSIONS FROM STOP BAR AND MIN. SPACING REQUIREMENTS, TYP.

SIGNAL LEGEND

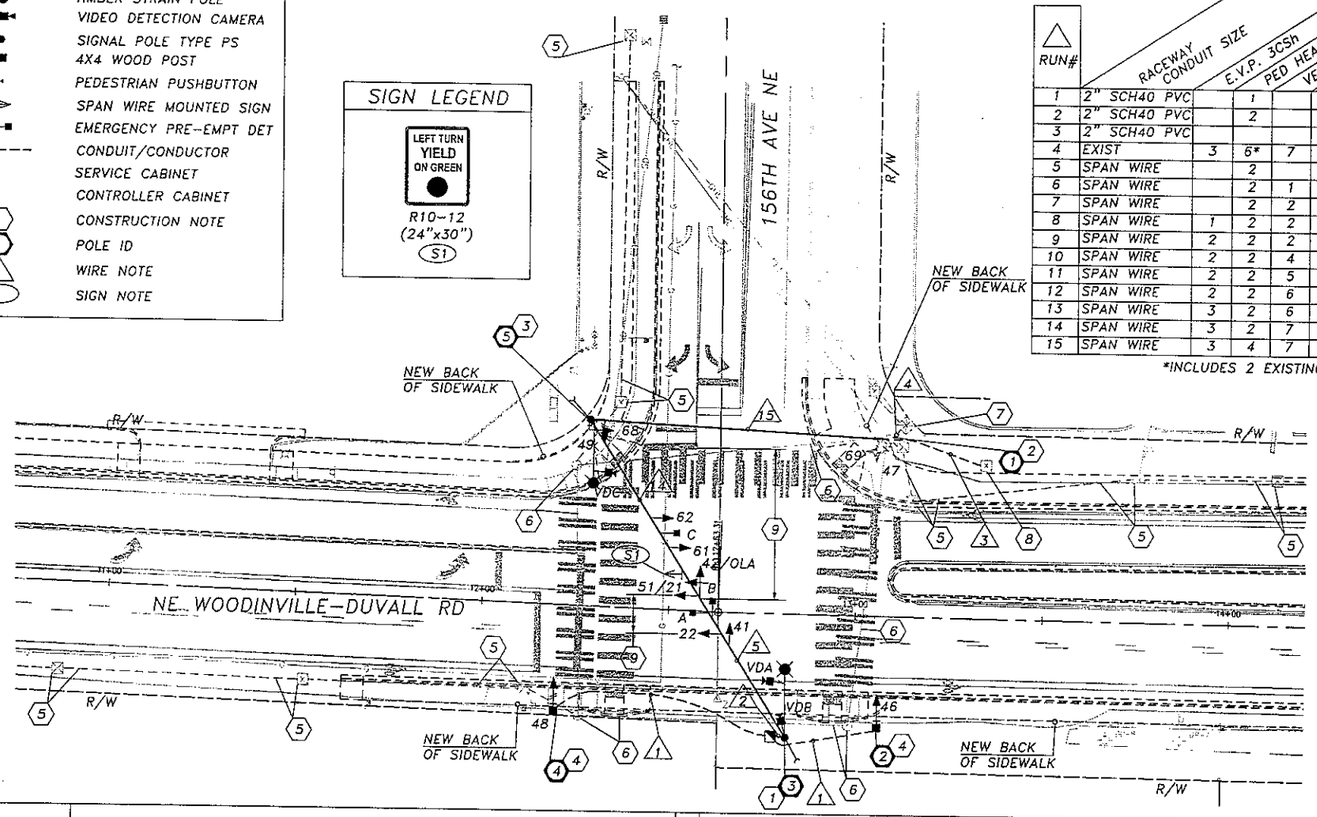
EXIST.	NEW	DESCRIPTION
		JUNCTION BOX TYPE 1,2,8
		VEHICLE SIGNAL HEAD
		PEDESTRIAN SIGNAL HEAD
		TIMBER STRAIN POLE
		VIDEO DETECTION CAMERA
		SIGNAL POLE TYPE PS
		4X4 WOOD POST
		PEDESTRIAN PUSHBUTTON
		SPAN WIRE MOUNTED SIGN
		EMERGENCY PRE-EMPT DET
		CONDUIT/CONDUCTOR
		SERVICE CABINET
		CONTROLLER CABINET
		CONSTRUCTION NOTE
		POLE ID
		WIRE NOTE
		SIGN NOTE

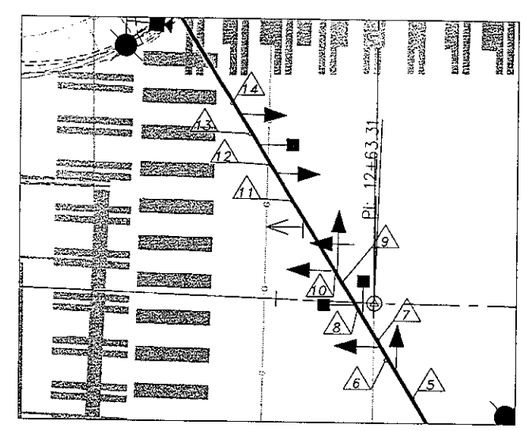
SIGN LEGEND

WIRE SCHEDULE

RUN#	RACEWAY CONDUIT SIZE	E.V.P. 3CSh	PED HEAD/PPB 5C	VEHICLE HEAD 5C	VIDEO DETECTION	ILLUM #8	EQUIP GROUND #8
1	2" SCH40 PVC		1				1
2	2" SCH40 PVC		2				1
3	2" SCH40 PVC					2	1
4	EXIST	3	6*	7	3		1
5	SPAN WIRE		2		2	2	
6	SPAN WIRE		2	1	2	2	
7	SPAN WIRE		2	2	2	2	
8	SPAN WIRE	1	2	2	2	2	
9	SPAN WIRE	2	2	2	2	2	
10	SPAN WIRE	2	2	4	2	2	
11	SPAN WIRE	2	2	5	2	2	
12	SPAN WIRE	2	2	6	2	2	
13	SPAN WIRE	3	2	6	2	2	
14	SPAN WIRE	3	2	7	2	2	
15	SPAN WIRE	3	4	7	3	2	

*INCLUDES 2 EXISTING 5C





20' 0' 20' 40'
SCALE IN FEET

EXHIBIT 3
PAGE 93 OF 114

Transportation Engineering NorthWest, LLC
816 6TH STREET SOUTH • KIRKLAND, WA 98033
PHONE: (206) 817-9400 • FAX: (425) 889-8369
CONTACT: CHRIS BICKET, P.E.

PRELIMINARY

P.E. STAMP BOX

NO.	REVISION	DATE	BY	CK

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

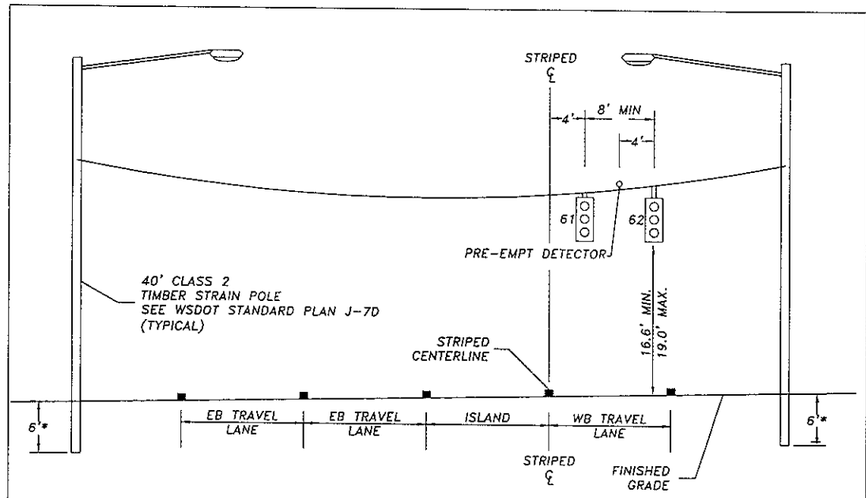
PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
156TH AVE NE TEMPORARY SIGNAL PLAN

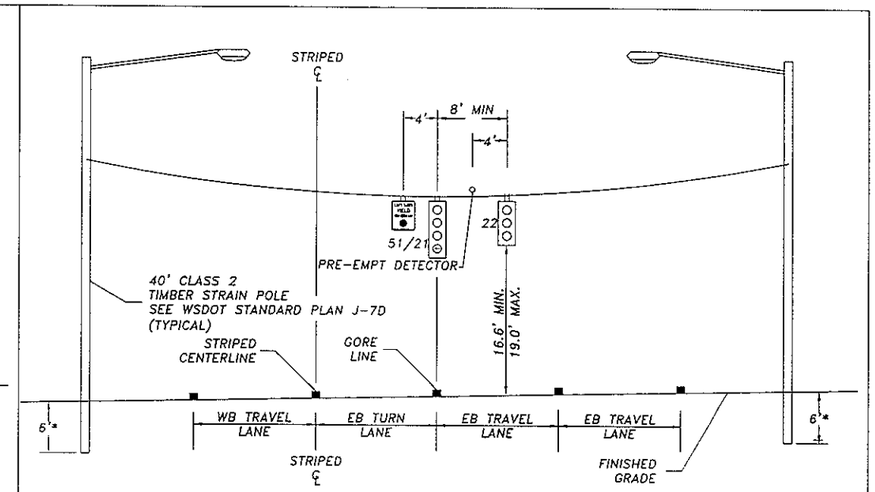
DATE: March 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 8.34	

Plotted: Oct 12, 2011 - 10:03am Erik Preston C:\Users\Erik Preston\Documents\EDW ACTIVE\Design\Woodinville-Duvall Road Widening\CAD\WDR Master Temp Signal.dwg Layout Name: 8.34

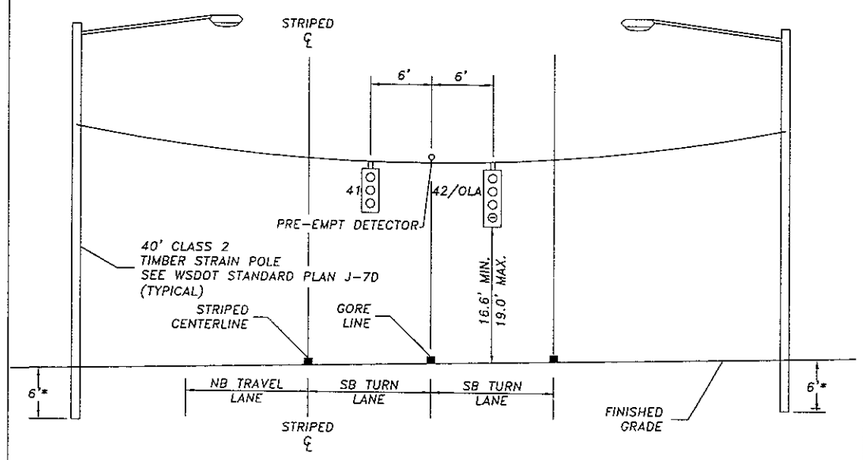
EXHIBIT 3
PAGE 94 OF 114



LOOKING WEST
NOT TO SCALE



LOOKING EAST
NOT TO SCALE



LOOKING SOUTH
NOT TO SCALE

SIGNAL HEAD ALIGNMENT DETAILS

NOTES

1. SIGNAL DISPLAYS AND PRE-EMPT DETECTOR TO BE ADJUSTED AS NECESSARY TO ALIGN WITH TEMPORARY CHANNELIZATION. CONTRACTOR TO INSTALL ADEQUATE SLACK WITH CONDUCTORS TO ALLOW FOR SIGNAL DISPLAYS TO BE ADJUSTED.
2. BOTH TRAFFIC SIGNAL HEADS MUST REMAIN NO LESS THAN 40 FEET AND NO GREATER THAN 150 FEET FROM STOP BAR, TYPICAL, ALL APPROACHES PER MUTCD. TRAFFIC SIGNAL HEADS FOR THE SAME APPROACH MUST REMAIN AT A MINIMUM 8 FEET SEPARATION PER MUTCD.
3. *EMBEDMENT DEPTH = 10% OF POLE HEIGHT + 2'

20' 0' 20' 40'
SCALE IN FEET

Transportation Engineering NorthWest, LLC
816 6TH STREET SOUTH • KIRKLAND, WA 98033
PHONE: (206) 817-9400 • FAX: (425) 889-8369
CONTACT: CHRIS BICKET, P.E.

PRELIMINARY

P.E. STAMP BOX

CHRISTOPHER T. BICKET, STATE OF WASHINGTON, 36633, REGISTERED PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY	CK

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

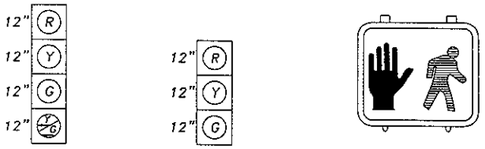
PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
156TH AVE NE TEMPORARY SIGNAL DETAILS

DATE: March 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 8.35	

Plotted: Oct 12, 2011 - 10:06am Erik Preston c:\Users\Erik Preston\Documents\TENW ACTIVE\Design\Woodinville-Duvall Road Widening\CAD\WDR Master Temp Signal.dwg Layout Name: 8.35

SIGNAL DISPLAYS

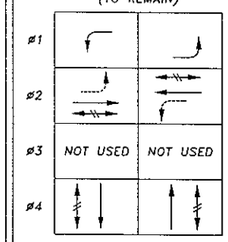


VEHICLE HEADS	VEHICLE HEADS	PEDESTRIAN HEADS
51/21	22	28,29
11/61	41,42	48,49
	62	68,69
	81,82,83	88,89

RELOCATE EXISTING VEHICLE SIGNAL HEADS/MOUNTS TO NEW SPAN WIRE. RELOCATE EXISTING PEDESTRIAN HEADS AND PUSHBUTTONS TO NEW POLES PER CONSTRUCTION NOTES, THIS SHEET.

PHASE DIAGRAM

EXISTING PHASING (TO REMAIN)



VEHICLE MOVEMENT
PEDESTRIAN MOVEMENT
PERMISSIVE MOVEMENT

PRE-EMPT
EVP A = ø2 & ø5
EVP B = ø4
EVP C = ø6 & ø1
EVP D = ø8

SIGNAL GENERAL NOTES

1. THE LOCATION OF ALL CONDUIT, JUNCTION BOXES, AND CABINETS SHOWN ON THIS PLAN ARE FOR GRAPHIC REPRESENTATION ONLY AND FINAL LOCATIONS SHALL BE DETERMINED BY THE ENGINEER OR CITY INSPECTOR.
2. ALL TRAFFIC SIGNAL AND PEDESTRIAN HEADS AND PUSH BUTTONS SHALL BE SECURELY AND COMPLETELY COVERED WHILE SIGNAL IS NOT IN OPERATION.
3. JUNCTION BOXES SHALL BE PLACED OUTSIDE OF PAVEMENT SURFACE AND WHEELCHAIR RAMPS UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER.
4. ALL WORK SHALL BE IN ACCORDANCE WITH CITY OF WOODINVILLE STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE SPECIFIED.
5. THE LOCATIONS OF FEATURES SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AS NECESSARY.
6. THE CONTRACTOR SHALL SUBMIT A REQUEST TO THE INSPECTOR FOR MATERIALS APPROVAL AT THE EARLIEST POSSIBLE DATE.
7. ALL WORK SHALL BE CONSISTENT WITH UTILITY AGENCY REQUIREMENTS. THE CONTRACTOR SHALL CONTACT ALL PERTINENT UTILITY AGENCIES 48 HOURS BEFORE COMMENCING WORK, AND SHALL COORDINATE WITH AFFECTED UTILITY AGENCIES THROUGHOUT THE PROJECT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE AFFECTED UTILITY COMPANY AND THE CITY OF WOODINVILLE IMMEDIATELY UPON DAMAGE.
9. THE CURRENT EDITION OF THE CITY OF WOODINVILLE STANDARD SPECIFICATIONS AND DETAILS SHALL BE CONSIDERED PART OF THIS CONTRACT.
10. CONTRACTOR SHALL PROVIDE AND INSTALL A TEMPORARY VIDEO DETECTION SYSTEM.
11. THE CONTRACTOR SHALL CONFIRM THAT 10 FEET MINIMUM CIRCUMFERENTIAL CLEARANCE IS PROVIDED BETWEEN SIGNAL/LUMINAIRE POLES AND OVERHEAD POWER LINES. IF A CONFLICT IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO FOUNDATION INSTALLATION.
12. CHANNELIZATION SHOWN IS APPROXIMATE AND MAY VARY AS CONSTRUCTION ACTIVITY REQUIRES. SEE APPROVED TRAFFIC CONTROL PLANS AND APPROVED CONSTRUCTION STAGING PLANS.

TRAFFIC SIGNAL CONSTRUCTION NOTES

1. INSTALL 40' CLASS 2 TIMBER STRAIN POLE WITH DOUBLE DOWN GUYS PER WSDOT STANDARD PLAN J-7d. INSTALL 250 WATT HPS M-C-III COBRA HEAD LUMINAIRE ON 16-FOOT ARM AT 34' MOUNTING HEIGHT. INSTALL VIDEO DETECTION CAMERA AND MOUNT AS SHOWN. POLE LOCATION SHOWN IS APPROXIMATE. FINAL LOCATION OF POLE SHALL BE APPROVED BY THE PROJECT INSPECTOR IN THE FIELD. SPAN SHOWN IS 125'; SPAN SHALL NEVER EXCEED 150'.
2. EXISTING TIMBER STRAIN POLE TO REMAIN. DETACH EXISTING SPAN WIRE AND APPURTENANCES. ATTACH NEW SPAN WIRE AND APPURTENANCES TO EXISTING TIMBER STRAIN POLE. INSTALL 250 WATT HPS M-C-III COBRA HEAD LUMINAIRE ON 16-FOOT ARM AT 34' MOUNTING HEIGHT. INSTALL VEHICLE SIGNAL HEAD/MOUNT AND VIDEO DETECTION CAMERA AS SHOWN. EXISTING PEDESTRIAN PUSHBUTTON AND HEAD TO REMAIN.
3. INSTALL 4X4 WOOD POST WITH ONE PEDESTRIAN SIGNAL DISPLAY AND ONE PUSHBUTTON ASSEMBLY. PUSHBUTTON ASSEMBLY AND PEDESTRIAN SIGNAL DISPLAY SHALL BE RELOCATED FROM EXISTING TIMBER POLE. LOCATION SHOWN IS APPROXIMATE. FINAL LOCATION OF POLE SHALL BE APPROVED BY THE PROJECT INSPECTOR IN THE FIELD.
4. INSTALL 4X4 WOOD POST WITH TWO PEDESTRIAN SIGNAL DISPLAYS AND TWO PUSHBUTTON ASSEMBLIES. PUSHBUTTON ASSEMBLY AND PEDESTRIAN SIGNAL DISPLAY SHALL BE RELOCATED FROM EXISTING TIMBER POLE. LOCATION SHOWN IS APPROXIMATE. FINAL LOCATION OF POLE SHALL BE APPROVED BY THE PROJECT INSPECTOR IN THE FIELD.
5. EXISTING 4X4 WOOD POST WITH PEDESTRIAN SIGNAL DISPLAY AND PUSHBUTTON TO REMAIN.
6. REMOVE EXISTING LOOP DETECTOR CONDUCTORS BACK TO THE CONTROLLER. REMOVE EXISTING JUNCTION BOX AND CONDUIT BENDS. ABANDON EXISTING CONDUIT.
7. REMOVE EXISTING TIMBER STRAIN POLE AND SPAN WIRE. RELOCATE EXISTING SIGNAL HEADS, SIGNS, AND PREEMPTION DETECTORS TO THE NEW SPAN WIRE.
8. COORDINATE SIGNAL SHUT-DOWN/CUT-OVER WITH CITY OF WOODINVILLE SIGNAL MAINTENANCE. FURNISH AND INSTALL VIDEO DETECTION SYSTEM, INCLUDING CAMERA AND CONTROLLER UNIT.
9. REMOVE EXISTING STOP BAR AND INSTALL TEMPORARY STOP BAR AT 40 FEET MINIMUM FROM NEAR SIGNAL HEAD.
10. SEE SIGNAL HEAD ALIGNMENT DETAILS, SHEET 8.38, FOR MIN./MAX. DIMENSIONS FROM STOP BAR AND MIN. SPACING REQUIREMENTS, TYP.
11. REMOVE EXISTING 4X4 WOOD POST. RELOCATE EXISTING PEDESTRIAN PUSHBUTTON AND DISPLAY TO NEW POLE 5.
12. CONTRACTOR SHALL COORDINATE WITH PSE TO OBTAIN POWER SOURCE FOR ILLUMINATION ASSOCIATED WITH TEMPORARY SIGNAL PLAN.

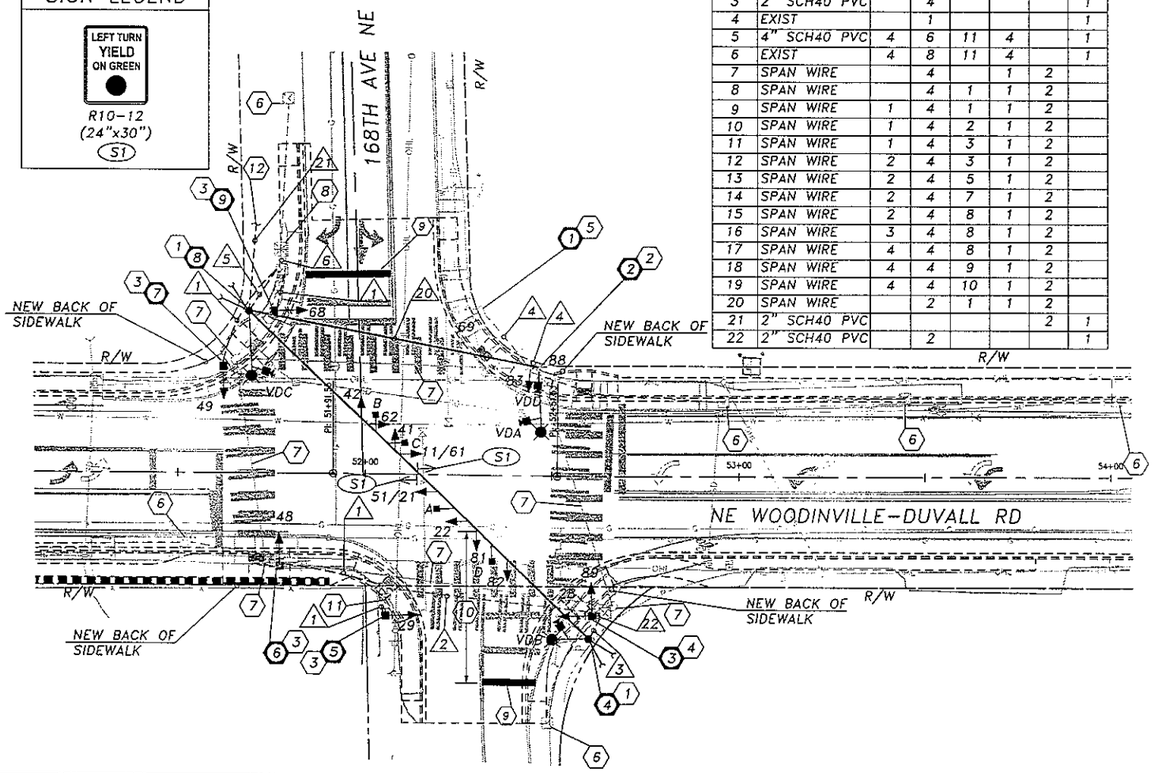
SIGNAL LEGEND

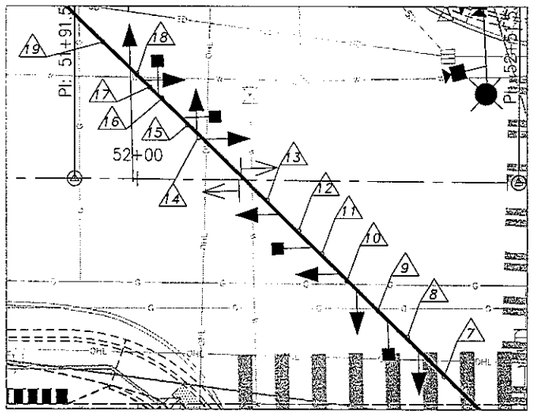
EXIST.	NEW	DESCRIPTION
		JUNCTION BOX TYPE 1,2,8
		VEHICLE SIGNAL HEAD
		PEDESTRIAN SIGNAL HEAD
		SIGNAL POLE TYPE III
		TIMBER STRAIN POLE
		VIDEO DETECTION CAMERA
		SIGNAL POLE TYPE PS
		4X4 WOOD POST
		PEDESTRIAN PUSHBUTTON
		SPAN WIRE MOUNTED SIGN
		EMERGENCY PRE-EMPT DET
		CONDUIT/CONDUCTOR
		SERVICE CABINET
		CONTROLLER CABINET
		CONSTRUCTION NOTE
		POLE ID
		WIRE NOTE
		SIGN NOTE

SIGN LEGEND

WIRE SCHEDULE

RUN#	RACEWAY CONDUIT SIZE	E.V.P. 3CSh	PED HEAD/PPB 5C	VEHICLE HEAD 5C	VIDEO DETECTION	ILLUM #8	EQUIP GROUND #8
1	2" SCH40 PVC		1				1
2	EXIST		2				1
3	2" SCH40 PVC		4				1
4	EXIST		1				1
5	4" SCH40 PVC	4	6	11	4		1
6	EXIST	4	8	11	4		1
7	SPAN WIRE		4		1	2	
8	SPAN WIRE		4	1	1	2	
9	SPAN WIRE	1	4	1	1	2	
10	SPAN WIRE	1	4	2	1	2	
11	SPAN WIRE	1	4	3	1	2	
12	SPAN WIRE	2	4	3	1	2	
13	SPAN WIRE	2	4	5	1	2	
14	SPAN WIRE	2	4	7	1	2	
15	SPAN WIRE	2	4	8	1	2	
16	SPAN WIRE	3	4	8	1	2	
17	SPAN WIRE	4	4	8	1	2	
18	SPAN WIRE	4	4	9	1	2	
19	SPAN WIRE	4	4	10	1	2	
20	SPAN WIRE		2	1	1	2	
21	2" SCH40 PVC					2	1
22	2" SCH40 PVC		2				1





20' 0' 20' 40'
SCALE IN FEET

EXHIBIT 3
PAGE 95 OF 114

Transportation Engineering NorthWest, LLC
814 6TH STREET SOUTH • KIRKLAND, WA 98033
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CONTACT: CHRIS BICKET, P.E.

PRELIMINARY

P.E. STAMP BOX

NO.	REVISION	DATE	BY	CK

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

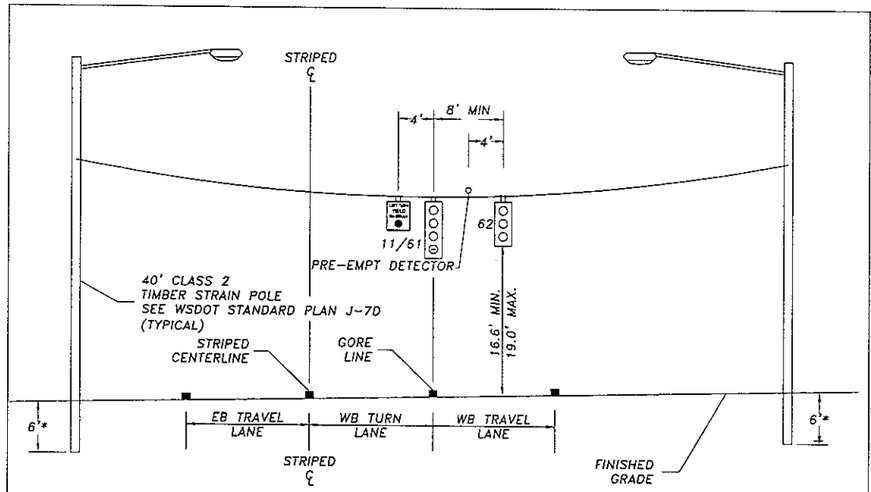
PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
168TH AVE NE TEMPORARY SIGNAL PLAN

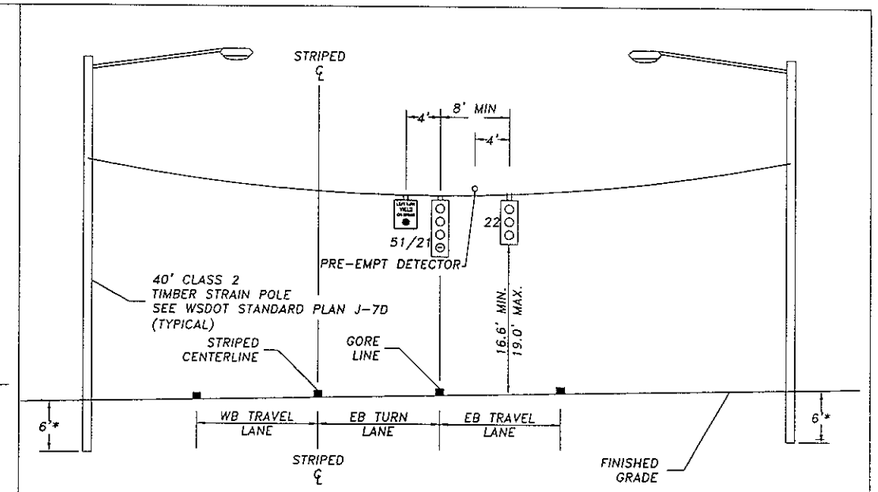
DATE: March 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 8.36	

Plotted: Oct 12, 2011 - 10:07am Erik Preston C:\Users\Erik Preston\Documents\TEMP ACTIVE\Design\Woodinville-Duvall Road Widening\CAD\WGR Master Temp Signal.dwg Layout Name: 8.36

EXHIBIT 3
PAGE 96 OF 114



LOOKING WEST
NOT TO SCALE



LOOKING EAST
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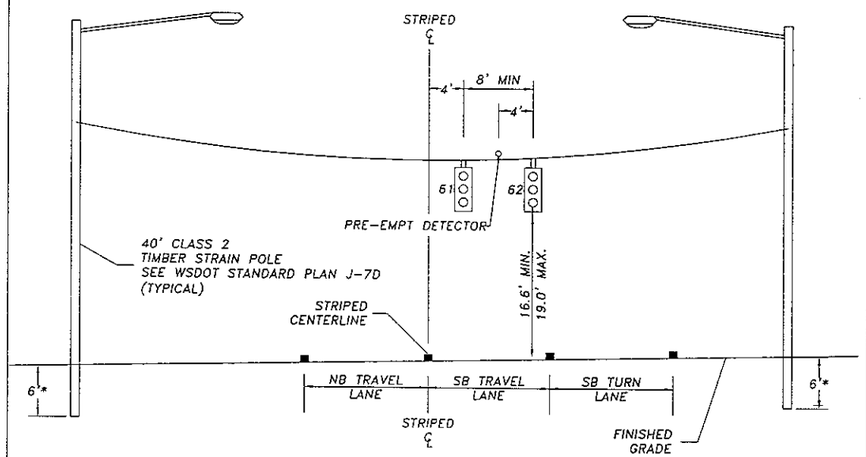
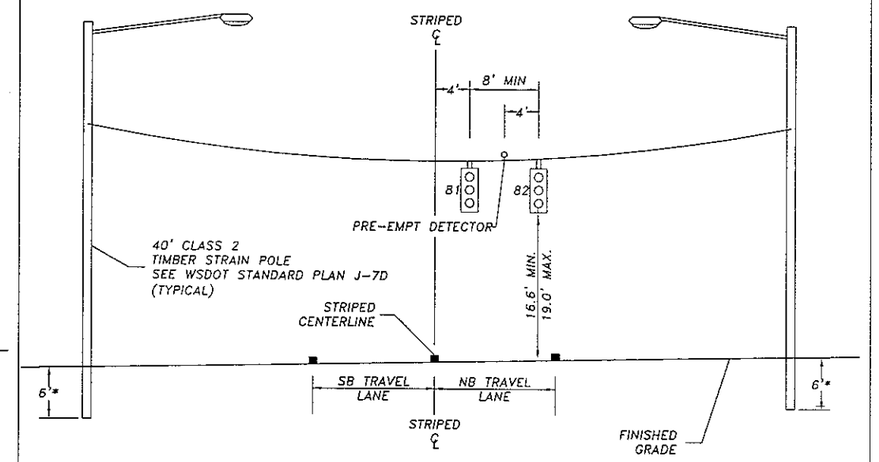


LOOKING SOUTH
NOT TO SCALE



LOOKING NORTH
NOT TO SCALE

SIGNAL HEAD ALIGNMENT DETAILS

NOTES

1. SIGNAL DISPLAYS AND PRE-EMPT DETECTOR TO BE ADJUSTED AS NECESSARY TO ALIGN WITH TEMPORARY CHANNELIZATION. CONTRACTOR TO INSTALL ADEQUATE SLACK WITH CONDUCTORS TO ALLOW FOR SIGNAL DISPLAYS TO BE ADJUSTED.
2. BOTH TRAFFIC SIGNAL HEADS MUST REMAIN NO LESS THAN 40 FEET AND NO GREATER THAN 150 FEET FROM STOP BAR, TYPICAL, ALL APPROACHES PER MUTCD. TRAFFIC SIGNAL HEADS FOR THE SAME APPROACH MUST REMAIN AT A MINIMUM 8 FEET SEPARATION PER MUTCD.
3. *EMBEDMENT DEPTH = 10% OF POLE HEIGHT + 2'

20' 0' 20' 40'
SCALE IN FEET

Transportation Engineering NorthWest, LLC
816 6TH STREET SOUTH • KIRKLAND, WA 98033
PHONE: (206) 817-9400 • FAX: (425) 889-8369
CONTACT: CHRIS BICKET, P.E.

PRELIMINARY DRAFT

CHRISTOPHER T. BICKET, STATE OF WASHINGTON, 38603, REGISTERED PROFESSIONAL ENGINEER

P.E. STAMP BOX

NO.	REVISION	DATE	BY	CK

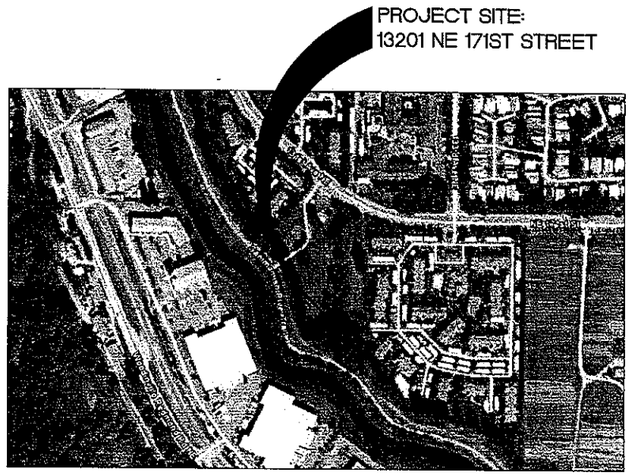
CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

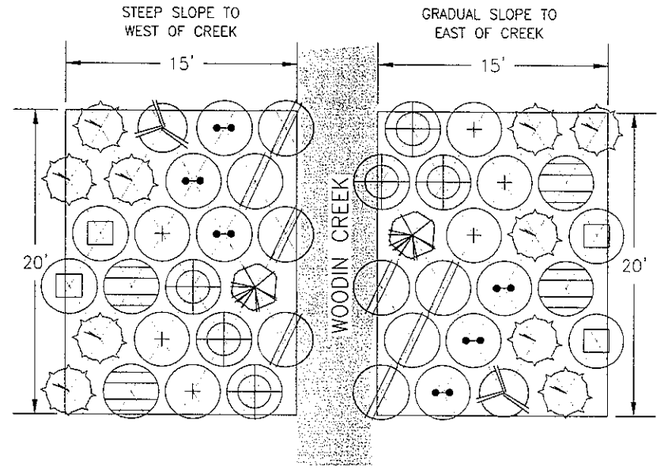
PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING PROJECT

SHEET TITLE:
168TH AVE NE TEMPORARY SIGNAL DETAILS

DATE: March 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE: 1"=20'
SHEET X OF X	
DRAWING NO.: 8.37	

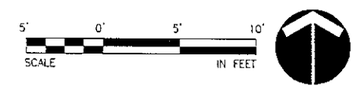
Plotted: Oct 12, 2011 - 10:08am Erik Preston C:\Users\Erik Preston\Documents\TENW ACTIVE\Design\Woodinville-Duvall Road Widening\CAD\WOR Master Temp Signal.dwg Layout Name: 8.37





NOTE: EXISTING TREES SHALL REMAIN

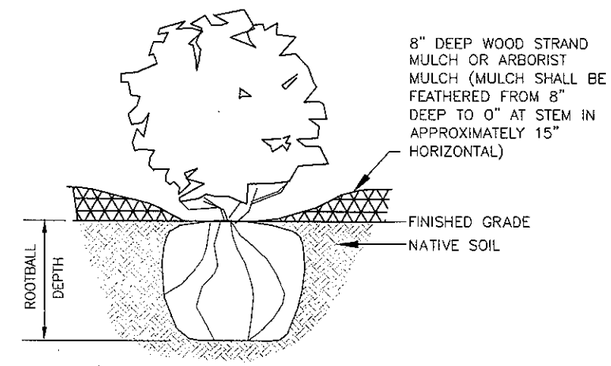
CONCEPTUAL PLANTING PLAN



INVASIVE SPECIES CONTROL

PRIOR TO NATIVE PLANT INSTALLATION INVASIVE PLANT SPECIES SHALL BE REMOVED IN PROJECT AREAS, INVASIVE PLANT SPECIES INCLUDE DOMINANT SPECIES SUCH AS HIMALAYAN BLACKBERRIES, BITTERSWEET NIGHTSHADE, AND REED CANARY GRASS.

EXHIBIT 3
PAGE 11 OF 14



TREE AND SHRUB PLANTING DETAIL

NOT TO SCALE

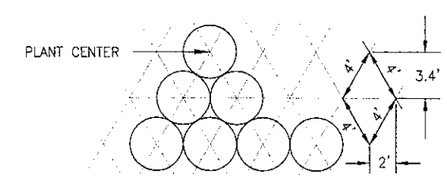
PLANTING SCHEDULE

TREES

SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	QUANTITY
PICEA SITCHENSIS	SITKA SPRUCE	2 GAL	8 FT O.C.	2
THUJA PLICATA	WESTERN RED CEDAR	2 GAL	8 FT O.C.	2

SHRUBS

SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	QUANTITY
ACER CIRCINATUM	VINE MAPLE	2 GAL	4 FT O.C.	4
CORNUS SERICEA	RED-STEM DOGWOOD	1 GAL	4 FT O.C.	8
PHYSOCARPUS CAPITATUS	PACIFIC NINEBARK	1 GAL	4 FT O.C.	6
ROSA NUTKANA	NOOTKA ROSE	1 GAL	4 FT O.C.	4
ROSA PISOCARPA	WILD CLUSTERED ROSE	1 GAL	4 FT O.C.	6
RUBUS SPECTABILIS	SALMONBERRY	1 GAL	4 FT O.C.	6
SYMPHORICARPOS ALBUS	SNOWBERRY	1 GAL	4 FT O.C.	10



4' O.C. TRIANGULAR SPACING DIAGRAM

NOT TO SCALE

CALL BEFORE YOU DIG
1-800-424-5555

otak
Incorporated
10230 NE Points Dr #400
Kirkland, Washington 98033
Phone: (425) 822-4446
FAX: (425) 827-9577
WEB: WWW.OTAK.COM

PRELIMINARY DRAFT

P.E. STAMP BOX

NO.	REVISION	DATE	BY	CK
1				
2				
3				
4				
5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

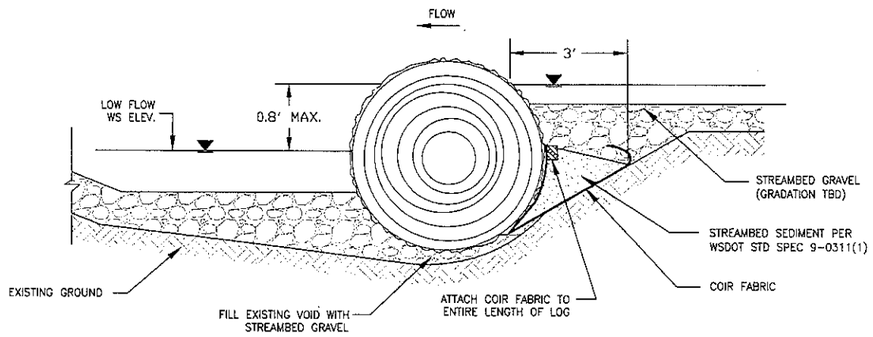
PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING MITIGATION CONCEPTS

SHEET TITLE:
WETLAND/STREAM CONCEPTUAL MITIGATION

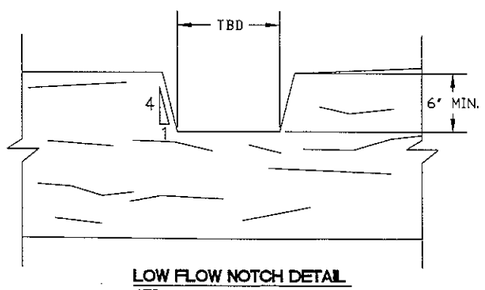
DATE: Oct 2011	CHECKED BY: WS
DESIGNED BY: TLE	PROJECT NO.:
DRAWN BY: TLE	SCALE: PER GRAPHIC
SHEET x OF	
DRAWING NO.: 9.01	

Plotted: Oct 17, 2011 - 5:02pm jeffr: K:\project\31400\31423\Dwg\9.01.dwg Layout Name: 9.01

XREF LIST
Ltscale: 1
Resolved
NMVSEAL
TTLBLK
SJWSEAL

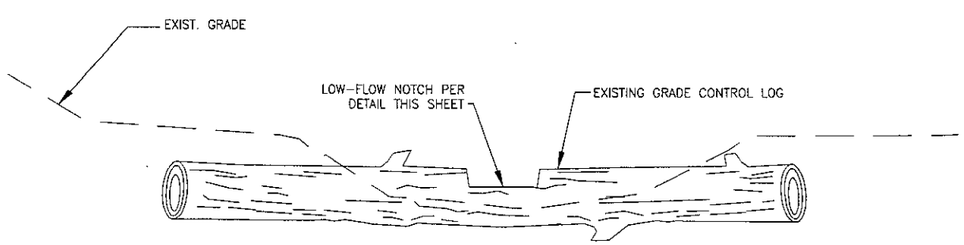


B PROFILE
NTS

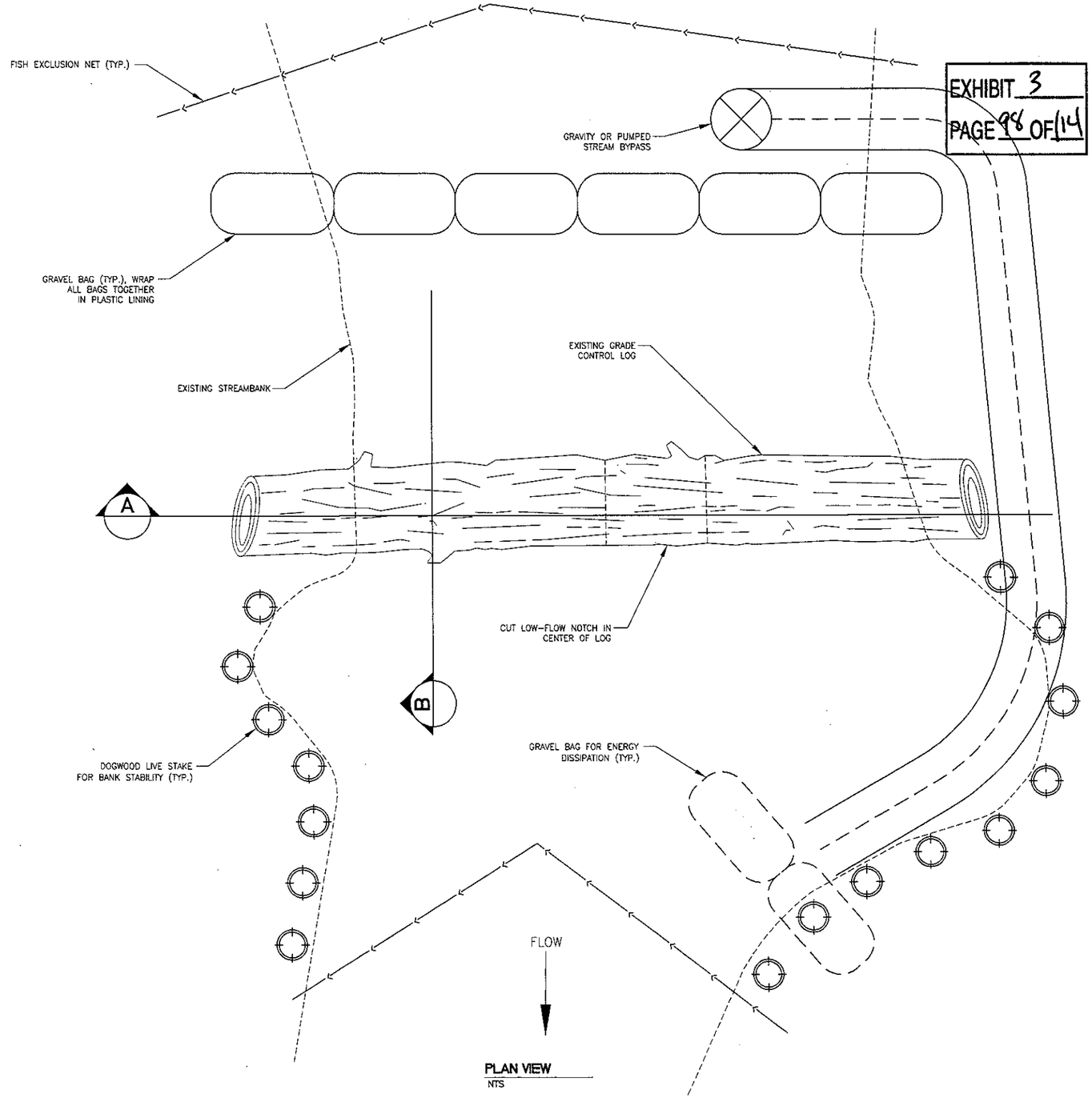


LOW FLOW NOTCH DETAIL
NTS

NOTE: FINAL LOW-FLOW NOTCH DIMENSIONS TO BE DETERMINED BASED ON HYDROLOGIC MODELING RESULTS.



A CROSS SECTION
NTS



PLAN VIEW
NTS

EXHIBIT 3
PAGE 98 OF 114

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P.E. STAMP BOX

NO.	REVISION	DATE	BY	CK
1				
2				
3				
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5				

CITY OF WOODINVILLE
17301 133rd AVE NE
WOODINVILLE, WA 98072
PHONE: (425) 489-2700
FAX: (425)489-2705

PROJECT INFORMATION
WOODINVILLE-DUVALL ROAD WIDENING MITIGATION CONCEPTS

SHEET TITLE:
WOODIN CREEK MITIGATON CONCEPTS

DATE: Oct 2011	CHECKED BY:
DESIGNED BY:	PROJECT NO.: PW10-XXXX
DRAWN BY:	SCALE: AS SHOWN
SHEET X OF X	
DRAWING NO.: 9.02	

Plotted: Oct 17, 2011 - 4:53pm jeffr K:\project\31400\31423\Dwg\9.02.dwg Layout Name: Layout1

A PORTION OF THE SECTIONS 2 AND 12, TOWNSHIP 26 NORTH, RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON

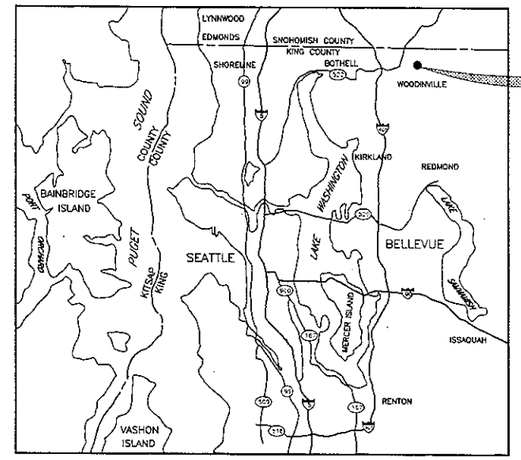
EXHIBIT 3
PAGE 99 OF 114

GENERAL WATER NOTES

1. ALL WORK SHALL CONFORM TO THE RULES AND REGULATIONS OF THE WOODINVILLE WATER DISTRICT, CITY OF WOODINVILLE, THESE DRAWINGS AND THE PROJECT MANUAL.
2. THE CONTRACTOR SHALL ARRANGE AND ATTEND A PRECONSTRUCTION CONFERENCE PRIOR TO THE START OF CONSTRUCTION.
3. WATER MAINS SHALL BE CLASS 52 CEMENT LINED DUCTILE IRON, SIZE AS NOTED ON PLANS. ALL MJ JOINTS SHALL BE RESTRAINED. PIPELINE SHALL BE RESTRAINED WITH FIELD-LOCK GASKETS AROUND FITTINGS AND VALVES. SEE STANDARD PLAN 2.
4. ALL OPERATING NUTS ON GATE VALVES ARE TO BE EXTENDED TO WITHIN 18 TO 24 INCHES OF THE FINISHED GRADE. MINIMUM COVER OVER 12-INCH DIAMETER WATER MAIN AND LARGER SHALL BE 60 INCHES UNLESS OTHERWISE NOTED.
5. LOCATIONS SHOWN FOR EXISTING UTILITIES ARE APPROXIMATE. IDENTIFICATION LOCATION MARKING AND RESPONSIBILITY FOR THE UNDERGROUND FACILITIES OR UTILITIES IS GOVERNED BY THE PROVISIONS OF CHAPTER 19.122 REVISED CODE OF WASHINGTON. CONTRACTOR SHALL COORDINATE FOR UTILITY LOCATES PRIOR TO CONSTRUCTION START AND PROVIDE FOR CURRENT LOCATES THROUGHOUT THE PERIOD OF CONSTRUCTION.
6. MINIMUM SEPARATION OF POTABLE WATER MAINS AND SANITARY SEWER LINES SHALL BE TEN (10) FEET HORIZONTALLY FOR PARALLEL AND THREE (3) FEET VERTICALLY FOR PERPENDICULAR OR OBLIQUE CROSSINGS, MEASURED FROM OUTSIDE EDGE TO OUTSIDE EDGE. SITUATIONS OCCURRING WITH LESS THAN MINIMUM SEPARATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION C1-9 OF THE "CRITERIA FOR SEWAGE WORKS DESIGN" PUBLISHED BY THE WASHINGTON DEPARTMENT OF ECOLOGY AS REVISED AUGUST 2008.
7. THE CONTRACTOR IS CAUTIONED THAT OVERHEAD ELECTRICAL SERVICE LINES ARE GENERALLY NOT SHOWN ON THESE DRAWINGS. ELECTRICAL LINES SHOWN ON THE DRAWINGS ARE LOCATED BY POINT-TO-POINT, POWER POLE-TO-POWER POLE CONNECTION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXTENT OF ANY HAZARD CREATED BY OVERHEAD ELECTRICAL POWER IN ALL AREAS AND SHALL FOLLOW PROCEDURES DURING CONSTRUCTION AS REQUIRED BY LAW AND REGULATION.
8. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND CLEARANCES PRIOR TO CONSTRUCTION. CONTRACTOR REQUIRED TO COORDINATE WITH PUGET SOUND ENERGY DURING CONSTRUCTION AROUND GAS MAINS 4" OR LARGER.
9. THE CONTRACTOR SHALL KEEP EXISTING HOUSES AND BUSINESSES IN SERVICE AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL REPAIR SERVICE LINES AND MAINS IF DAMAGED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL NOTIFY THE DISTRICT INSPECTOR AT LEAST SEVEN (7) WORKING DAYS IN ADVANCE AND MAKE THE NECESSARY ARRANGEMENTS WITH THE WATER DISTRICT INSPECTOR FOR CONNECTION TO EXISTING WATER SYSTEM. WATER SHUT OFFS REQUIRE A MINIMUM OF 72 HOURS (WORKING DAYS) PRIOR NOTIFICATION. SHUT OFFS NORMALLY ONLY ALLOWED TUESDAY THROUGH THURSDAY; 9:00 AM TO 3:00 PM. HOWEVER FOR THIS PROJECT SHUT OFFS DURING OFF HOURS MAY BE REQUIRED.
11. MINIMUM VERTICAL SEPARATION BETWEEN UTILITIES SHALL BE 12 INCHES WITH A SAND CUSHION AND HAND COMPACTION UNLESS OTHERWISE NOTED. NEW MAIN MAY NEED TO BE INSTALLED DEEPER TO GO UNDER EXISTING AND NEW UTILITIES. PROVIDE VERTICAL BENDS AND THRUST BLOCKING IN ACCORDANCE WITH THE STANDARD PLANS.
12. NEW WATER MAINS ARE TO BE TESTED IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO CONNECTING TO THE EXISTING WATER SYSTEM. THE USE OF AN APPROVED BACKFLOW DEVICE IS REQUIRED TO PREVENT CROSS-CONNECTIONS DURING TESTING. SEE STD. PLAN 1.
13. CONTRACTOR REQUIRED TO FOLLOW ALL CONFINED SPACE ENTRY REGULATIONS PRIOR TO ENTERING ANY CONFINED SPACE.
14. CONTRACTOR REQUIRED TO PROVIDE A COMPETENT PERSON(S) TRAINED TO IDENTIFY EXISTING OR PREDICTABLE HAZARDS RELATED TO TRENCH SAFETY, SOIL CONDITIONS AND SHORING REQUIREMENTS, IN ACCORDANCE WITH WAC 296-155 PART N. REPRESENTATIVES OF THE DISTRICT SHALL NOT BE REQUIRED TO PERFORM THE ROLE OF COMPETENT PERSON FOR THIS PROJECT. NO WORKERS SHALL ENTER A TRENCH OR OTHER EXCAVATION FOUR FEET OR MORE IN DEPTH WITHOUT TRENCH SAFETY SYSTEM IN PLACE.
15. SAWCUT EXISTING PAVEMENT FOR WATER LINE INSTALLATION. DISC CUTTING NOT ALLOWED. HOT MIX ASPHALT CLASS B" PG64-22 REQUIRED AS TRENCH PATCH ON OLD WOODINVILLE-DUVALL RD. AT THE END OF EACH WORKING DAY. SEE DETAILS. TRENCH PATCH ON REMAINDER OF PROJECT IN ACCORDANCE WITH ROAD PLANS. HALF-STREET 2" GRIND AND OVERLAY REQUIRED ON OLD WOODINVILLE-DUVALL RD. ONLY.
16. NOT ALL MONUMENTS ARE SHOWN. CONTRACTOR RESPONSIBLE FOR PROTECTION OF ALL MONUMENTS. IF ANY MONUMENTS ARE TO BE REMOVED AND RESET, THE CONTRACTOR SHALL NOTIFY THE ROAD AGENCY PRIOR TO DISTURBING THE MONUMENT. MONUMENT RESTORATION SHALL MEET ALL ROADS AGENCY'S REQUIREMENTS.
17. ONCE THE NEW MAIN AND HYDRANTS ARE PLACED IN SERVICE, THE CONTRACTOR SHALL REMOVE THE EXISTING HYDRANTS AND FOOT VALVES AND DISPOSE OF OFF-SITE. BLIND FLANGE EXISTING TEE. ALL ENDS OF ABANDONED PIPE SHALL BE PLUGGED WITH CONCRETE AND CAPPED.
18. SERVICES TO BE RELOCATED: CONTRACTOR SHALL POTHOLE TO LOCATE BACKSIDE (CUSTOMER SIDE) OF SERVICE LINE BEFORE INSTALLING NEW SERVICE TAP. NEW SERVICE TAP SHOULD BE AS CLOSE TO PERPENDICULAR TO MAIN AS POSSIBLE.

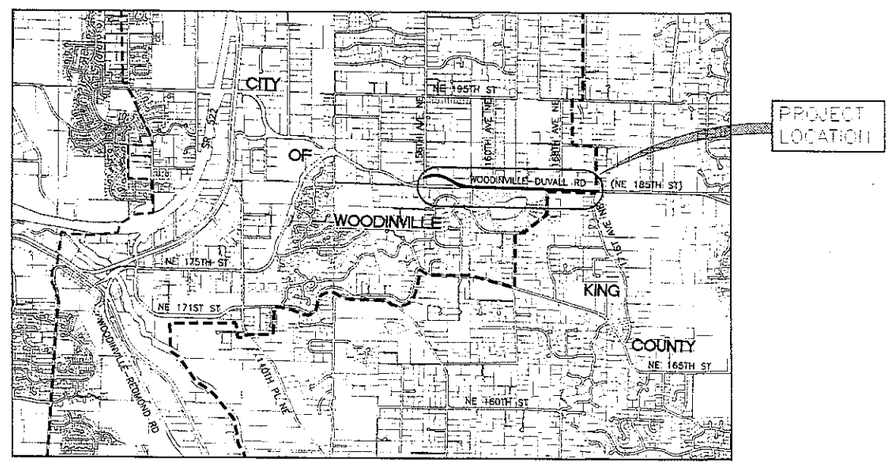
SHEET INDEX

W1 GENERAL NOTES, VICINITY MAP, LEGEND AND SHEET INDEX
W2 NE OLD WOODINVILLE-DUVALL RD. - STATION 0+00 THRU STATION 5+00
W3 NE OLD WOODINVILLE-DUVALL RD. - STATION 5+00 THRU STATION 10+00
W4 NE WOODINVILLE-DUVALL RD. - STATION 19+50 THRU STATION 24+50
W5 NE WOODINVILLE-DUVALL RD. - STATION 24+50 THRU STATION 29+50
W6 NE WOODINVILLE-DUVALL RD. - STATION 29+50 THRU STATION 34+50
W7 NE WOODINVILLE-DUVALL RD. - STATION 34+50 THRU STATION 39+50
W8 NE WOODINVILLE-DUVALL RD. - STATION 39+50 THRU STATION 44+50
W9 NE WOODINVILLE-DUVALL RD. - STATION 44+50 THRU STATION 49+50
W10 NE WOODINVILLE-DUVALL RD. - STATION 49+50 THRU STATION 54+50
W11 NE WOODINVILLE-DUVALL RD. - STATION 54+50 THRU STATION 59+50
W12 NE WOODINVILLE-DUVALL RD. - STATION 59+50 THRU STATION 64+50
W13 CONNECTION DETAILS
W14 CONNECTION DETAILS
W15 STANDARD PLANS
W16 STANDARD PLANS AND DETAILS

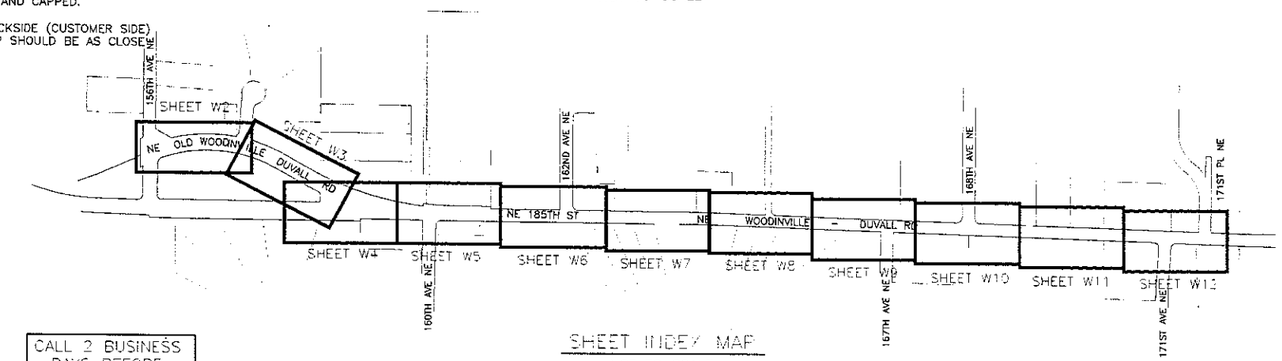


APEA MAP
NOT TO SCALE

PRELIMINARY
NOT FOR CONSTRUCTION
09/26/11



LOCATION MAP
NOT TO SCALE



SHEET INDEX MAP
NOT TO SCALE

CALL 2 BUSINESS DAYS BEFORE YOU DIG
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LEGEND:

EXISTING	PROPOSED	
		FOUND MONUMENT
C.B.		STORM DRAIN CATCH BASIN (CB)
		STORM DRAIN MANHOLE (SDMH)
SD		STORM DRAIN LINE
		WATER GATE VALVE
		WATER REDUCER
		WATER SLEEVE (MJ)
		WATER BENDS (MJ)
		WATER METER
		WATER TEMPORARY BLOW-OFF
		WATER DCVA VALVE
		WATER FIRE HYDRANT
		WATER MANHOLE
W		WATER LINE
		POWER POLE
		GUY ANCHOR
		POWER POLE W/LUMINAIRE
		STREET LIGHT
		LIGHT BOX
		TRAFFIC SIGNAL BOX
		CHARGER BOX
		TRANSFORMER
		POWER MANHOLE
		STREET LIGHT W/TRAFFIC SIGNAL
		POWER LINE
		TELEPHONE RISER
		TELEPHONE MANHOLE
		TELEPHONE VAULT
		TELEPHONE LINE
		CABLE TV
		GAS VALVE
G		GAS LINE
		FIBER OPTIC MANHOLE
		FIBER OPTIC POST
		MONITORING WELL
		WOOD FENCE
		CHAIN LINK FENCE
		RIGHT-OF-WAY
		PROPERTY LINE
		STREET CENTER LINE
		FOG LINE
		EDGE OF ASPHALT
		LIMITS OF GRIND AND OVERLAY
		TRAFFIC SIGNAL LOOP
(15606) T.L. 022605-9028		ADDRESS AND TAX LOT NUMBER
(20)		FIRE HYDRANT NUMBER
(62)		AS-BUILT SHEET NUMBER

FOR OLD WOODINVILLE-DUVALL ROAD ONLY

VERTICAL DATUM: NAVD88

PER OTAK TOPOGRAPHICAL SURVEY FOR THE CITY OF WOODINVILLE. PROJECT BENCHMARK IS KING COUNTY SURVEY CONTROL POINT #83 ALSO KNOWN AS WCCS #5572.

BASIS OF BEARINGS:

PLAT OF BONTERRA, RECORDED IN VOLUME 238 OF PLATS, PAGES 94-96, RECORDS OF KING COUNTY, WASHINGTON.

SURVEY INSTRUMENTATION:

THIS SURVEY WAS MADE BY FIELD TRAVERSE METHODS WITH A 6-SECOND TOPCON THEODOLITE AND COINCIDENT EDM, MAINTAINED IN ACCORDANCE WITH WAC 332-130-100. THE LEVEL OF MEASUREMENT PRECISION MEETS OR EXCEEDS THE REQUIREMENTS OF WAC 332-130-090.

SURVEY FOR REMAINDER OF THE WATER MAIN PER OTAK TOPOGRAPHICAL SURVEY FOR THE CITY OF WOODINVILLE

WOODINVILLE WATER DISTRICT

APPROVED BY MANAGER FOR PUBLIC WATER SYSTEM ONLY

DATE

No.	Date	By	Ckd	Revision

CHS ENGINEERS, LLC
12507 BEL-RED ROAD SUITE 101
BELLEVUE, WA 98005-2500
TEL (425) 637-3693 - FAX (425) 637-3694
www.chsengineers.com

Drawn / Date DJ 09/11
Designed / Date MD 09/11
Checked / Date MD 09/11

WOODINVILLE WATER DISTRICT

WOODINVILLE - DUVALL ROAD
WATER MAIN REPLACEMENT
GENERAL NOTES, LEGEND & SHEET INDEX

Scale: Horiz NTS Vert. N/A
Sheet W1 Of X
Job No. 141002
W2075

141002-WWD DUVALL RD.dwg 1:1 22:34 09/26/11

A PORTION OF THE SE 1/4 OF SECTION 2, TOWNSHIP 26 NORTH, RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON

EXHIBIT 3
PAGE 100 OF 114

SCALE IN FEET

156TH AVE NE

157TH PLACE NE

NE OLD WOODINVILLE - DUVALL RD

CB TYPE I (SOLID LOCKING LID)
RIM=433.68
12" CONC (E) IE=430.60
12" CPP (SW) IE=430.68
12" CPP (W) IE=430.63

CB TYPE I
RIM=433.63
12" CONC (E) IE=430.93

CB TYPE I
RIM=437.52
12" CPP (E) IE=434.17

T.L. 022605-9112
STALLION HILL LLC
15620
NE OLD WOODINVILLE-DUVALL RD
METER NO. 947-4727

REPLACE CONCRETE CURB AND GUTTER PER CITY OF WOODINVILLE STD. 320A

STA. 1+22, 23' LT
1-12"x6" TEE (FL)
1-6" GATE VALVE (FLxMJ)
1-FIRE HYDRANT ASSEMBLY PER STD PLAN 9
11 LF± 6" DI (RJ)

REMOVE EXIST. HYDRANT SEE NOTE 17

4' MIN. SEPARATION

CB TYPE I
RIM=429.00
12" CONC (E) IE=426.47
12" CONC (W) IE=426.63

5'x5' WATER EASEMENT NO. WOOD-DUVALL RD-2076-01

CB TYPE I
RIM=425.36
12" PVC (N) IE=422.71
12" CPP (E) IE=422.29
12" CONC (W) IE=422.38

T.L. 022605-9044
WHITE
15632
NE OLD WOODINVILLE-DUVALL RD
METER NO. 14610484

RECONNECT EXIST. NEAR SIDE SERVICES PER STD PLAN 13B, TYP.

5'x5' WATER EASEMENT NO. WOOD-DUVALL RD-2076-02

CB TYPE I
RIM=421.13
12" CONC (N) IE=418.43
12" CONC (S) IE=418.56
12" CONC (W) IE=418.51

T.L. 022605-9070
NO METER

T.L. 093730-0010

T.L. 093730-0070

STA. 4+60, 12' LT
SEE CONNECTION DETAILS ON SHEET W13

CAP EXIST.

8" AC W

308 LF± 12" DI

98 LF± 12" DI

35 LF± 12" DI

81 LF± 12" DI

12'

6"-G

HALF STREET 2" GRIND AND OVERLAY LIMITS

CB TYPE I
RIM=419.30
12" CONC (N) IE=416.65
12" CPP (E) IE=416.60
12" CPP (W) IE=416.65

T.L. 022605-9188

CB TYPE I
RIM=425.22
12" CPP (E) IE=421.87
12" CONC (W) IE=422.05

T.L. 022605-9028
PAC WEST ENERGY
15608
NE WOODINVILLE-DUVALL RD
METER #1 NO. 16868243
METER #2 NO. 79185115

#1

#2

CB TYPE I (SOLID LOCKING LID)
RIM=430.72
12" CPP (E) IE=427.62
12" CPP (W) IE=427.82

RECONNECT EXIST. FAR SIDE SERVICE PER STD PLAN 13B

STREET SIGN

MATCH LINE SEE SHEET 3 STATION 5+00

STA. 4+25, 23' LT
1-12"x6" TEE (FLxMJ)
1-6" GATE VALVE (FLxMJ)
12 LF± 6" DI (RJ)
RECONNECT EXIST. FIRE HYDRANT ASSEMBLY PER STD PLAN 10. COORDINATE FH SHUT DOWN WITH FIRE MARSHAL. REPLACE CURB AND GUTTER PER CITY OF WOODINVILLE STD. 320A.

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PHASE 1

EXIST. 8" AC

12" DI

5'

EXIST. 12" DI

STA. 0+30, 12' LT
INSTALL 12" DI LINED UP WITH EXIST. 12" DI. CAP AND TEMP 2" BLOW-OFF EXTEND OUT OF TRAVELED WAY TO SHOULDER

PHASE 2

CAP EXIST. 8"
EXIST. 8" AC

12" DI

EXIST. 12" DI

AFTER PRESSURE AND PURITY TESTS, STERILIZE CONNECTION
REMOVE EXIST. 45° BEND AND CONNECT TO EXIST. WITH
1-5' 8" DI SPOOL
2-12" SLEEVES (MJ)

PRELIMINARY
NOT FOR CONSTRUCTION
09/26/11

WOODINVILLE WATER DISTRICT

APPROVED BY MANAGER FOR PUBLIC WATER SYSTEM ONLY

DATE

440
435
430
425
420
415
410
405

EXIST. 12" DI

5'

98 LF± 12" DI, 12' LT

12" SLEEVE (MJ)

12" SLEEVE (MJ)

12"x6" TEE & FH

APPROX. EXIST. GROUND LINE ABOVE PIPE

CROSS UNDER EXIST STORM
IE STORM 417.9
CROWN 12" DI WATER 416.9

GAS

12" SD

308 LF± 12" DI, 12' LT

12"x6" TEE & FH

12" GATE VALVE
12"x8" TEE (FL)
12" ADAPTOR

35 LF± 12" DI

81 LF± 12" DI

GAS

0+00
1+00
2+00
3+00
4+00
5+00

141002-WWD DUVALL RD.dwg 1:1 22x34 09/26/11

No.	Date	By	Ckd	Revision

CHS
CHS ENGINEERS, LLC
12507 BEL-RED ROAD SUITE 101
BELLEVUE, WA 98005-2500
TEL (425) 637-3693 - FAX (425) 637-3694
www.chsengineers.com

Drawn / Date DJ 09/11
Designed / Date MD 09/11
Checked / Date MD 09/11

WOODINVILLE WATER DISTRICT

WOODINVILLE - DUVALL ROAD
WATER MAIN REPLACEMENT
STATION 0+00 THRU STATION 5+00

Scale:
Horiz. 1"=20'
Vert. 1"=5'

Sheet W2
Of X

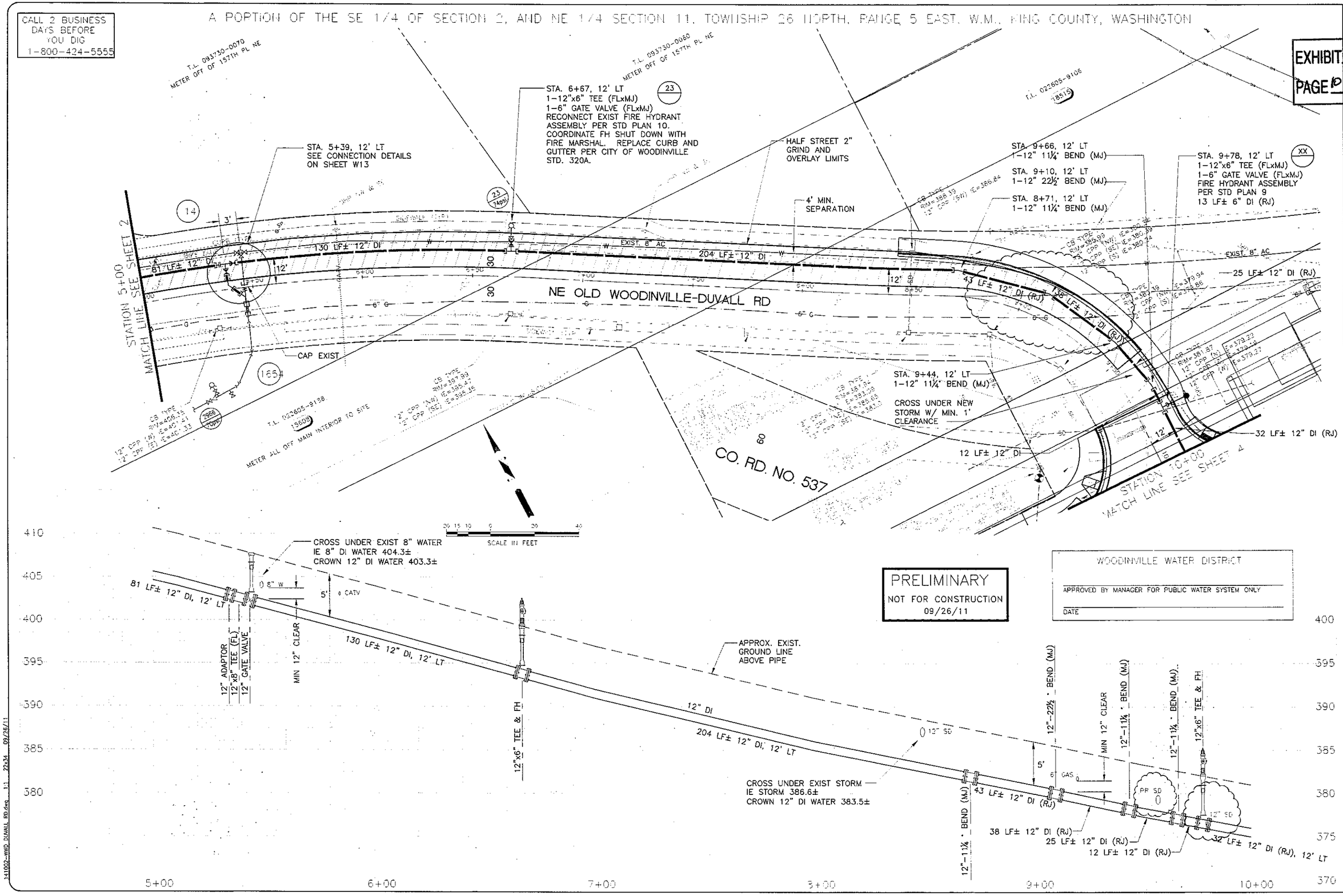
Job No. 141002

W2076

CALL 2 BUSINESS DAYS BEFORE YOU DIG 1-800-424-5555

A PORTION OF THE SE 1/4 OF SECTION 2, AND NE 1/4 SECTION 11, TOWNSHIP 26 NORTH, RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON

EXHIBIT 3
PAGE 10 OF 114



CHS
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WOODINVILLE WATER DISTRICT

WOODINVILLE - DUVALL ROAD
WATER MAIN REPLACEMENT
STATION 5+00 THRU STATION 10+00

Scale:	Sheet W3
Horiz. 1"=20'	Of 4
Vert. 1"=5'	
Job No. 141002	W2077

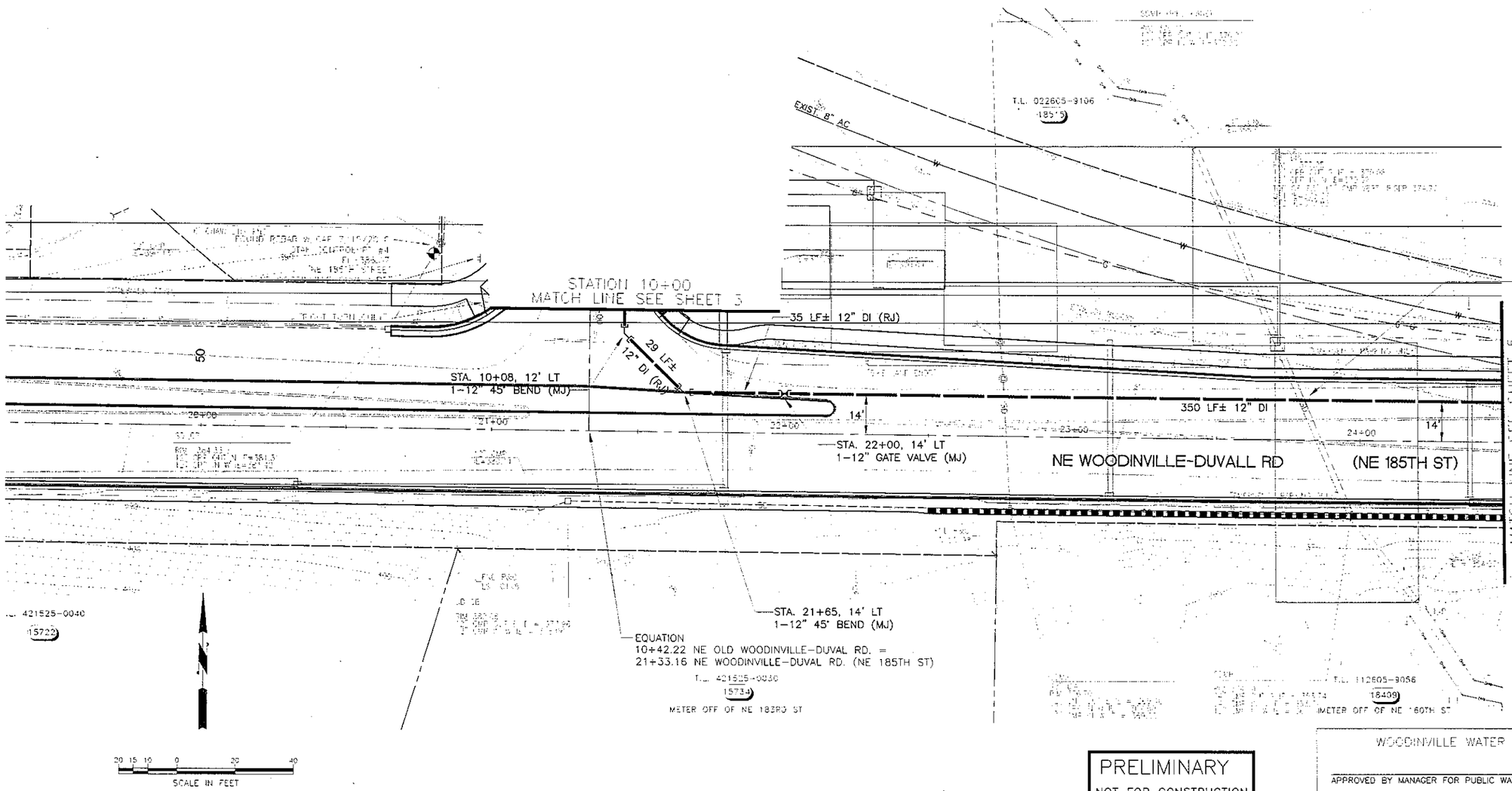
No.	Date	By	Ch'd	Revision

141002-WWD_DUVALL_RD.dwg 1:1 22x34 09/26/11

A PORTION OF THE SE 1/4 OF SECTION 2, AND NE 1/4 SECTION 11, TOWNSHIP 26 NORTH, RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON

CALL 2 BUSINESS DAYS BEFORE YOU DIG 1-800-424-5555

EXHIBIT 3
PAGE 102 OF 114



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WOODINVILLE WATER DISTRICT

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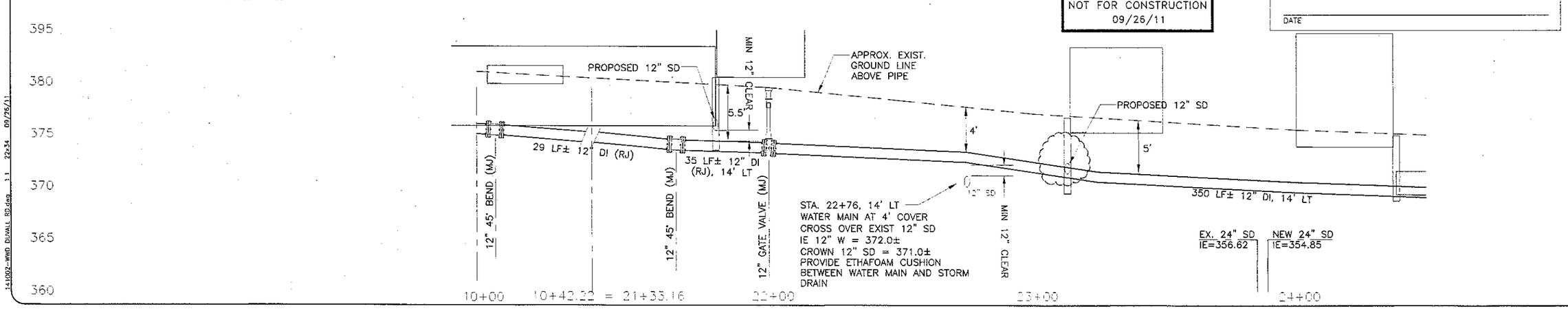
DATE



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WOODINVILLE WATER DISTRICT

WOODINVILLE - DUVALL ROAD
WATER MAIN REPLACEMENT
STATION 10+00 THRU STATION 24+50

Scale: Horiz. 1"=20' Vert. 1"=5'
Sheet W4 Of X
Job No. 141002
W2078

141002-WWD DUVALL RD.dwg 1:1 22x34 09/26/11

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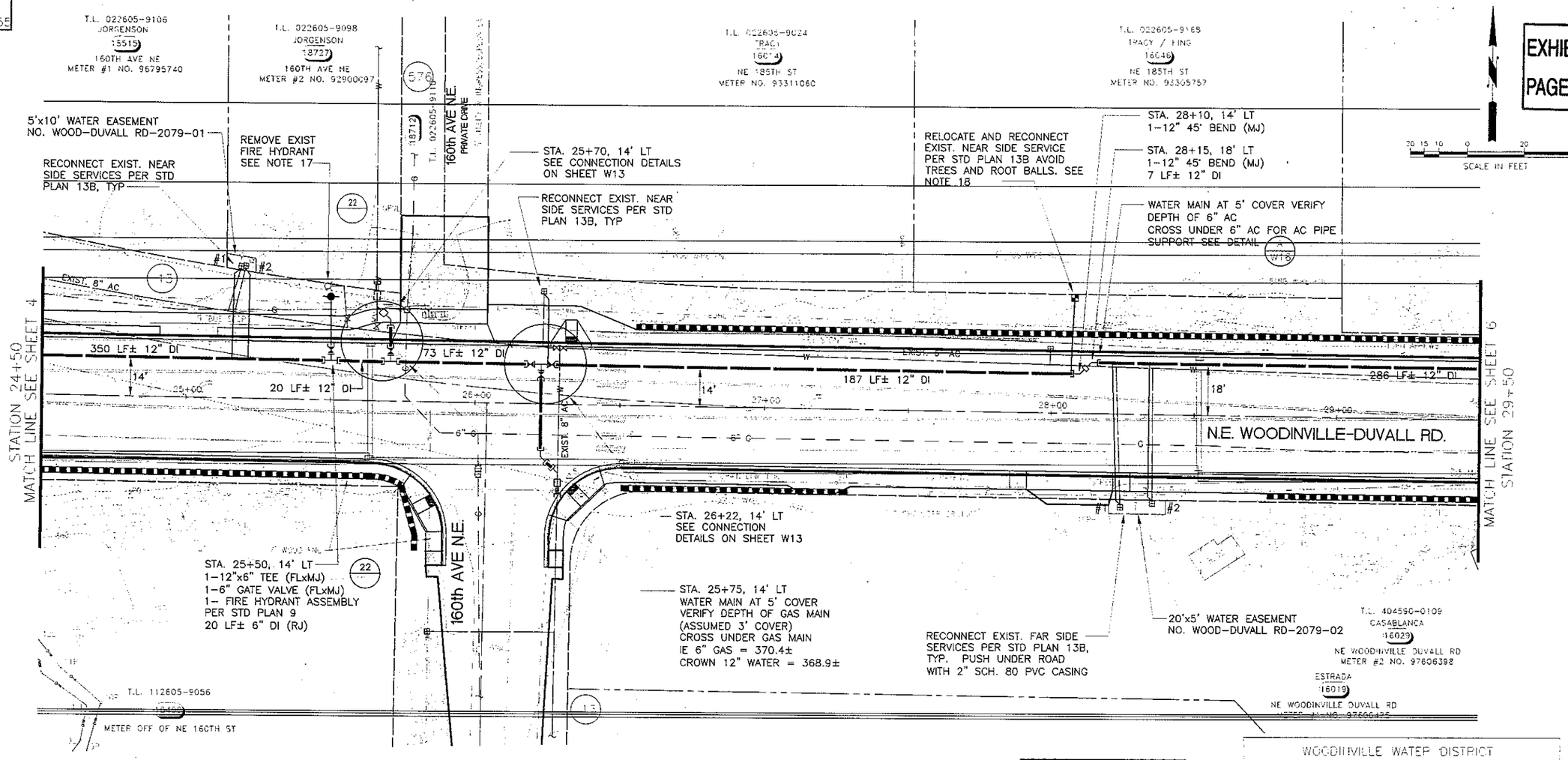
A PORTION OF THE SE 1/4 OF SECTION 2, AND NE 1/4 SECTION 11, TOWNSHIP 26 NORTH, RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON

EXHIBIT 3
PAGE 03 OF 14



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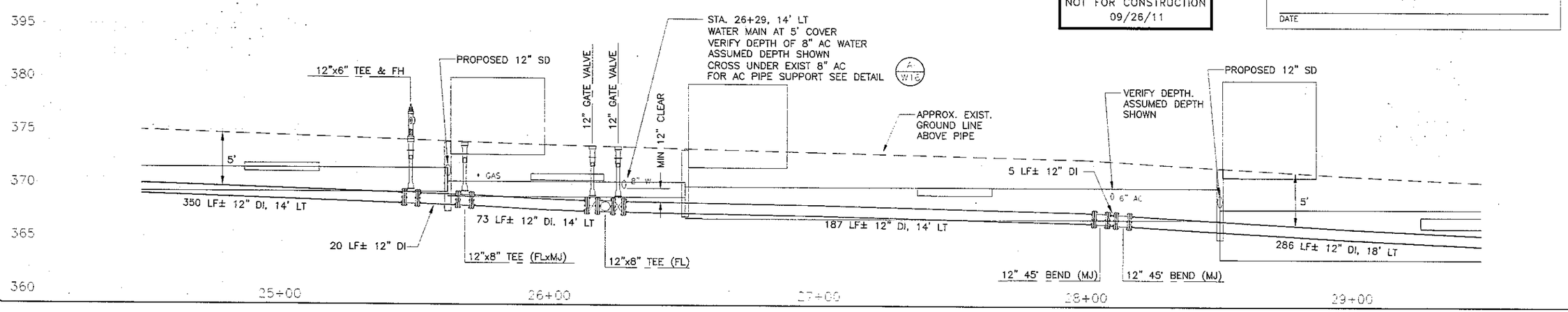

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WOODINVILLE WATER DISTRICT

WOODINVILLE - DUVALL ROAD
WATER MAIN REPLACEMENT
STATION 24+50 THRU STATION 29+50

Scale: Horiz. 1"=20 Vert. 1"=5'
Sheet W5 Of 4
Job No. 141002
W2079

141002-WWD_DUVALL_RD.dwg 1:1 22x34 09/26/11

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A PORTION OF THE SE 1/4 OF SECTION 2, AND NE 1/4 SECTION 11, TOWNSHIP 26 NORTH, RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON

EXHIBIT 3
PAGE 104 OF 114

SCALE IN FEET: 20 15 10 0 20 40

KING (16046) NE WOODINVILLE DUVALL RD METER #1 NO. 93305757

T.L. 022605-9040 MORRIS (16040) NE WOODINVILLE DUVALL RD METER #2 NO. 32915237 METER #3 NO. 29273614

T.L. 022605-9012 KING (16052) NE WOODINVILLE DUVALL RD METER NO. 93310882

T.L. 022605-9014 CITY OF WOODINVILLE TRACT NO METER

RECONNECT EXIST. NEAR SIDE SERVICES PER STD PLAN 13B, TYP

STA. 31+00, 18' LT (21)
1-12"x6" TEE (FLxMJ)
1-6" GATE VALVE (FLxMJ)
1-FIRE HYDRANT ASSEMBLY PER STD PLAN 9
15 LF± 6" DI (RJ)

10'x5' WATER EASEMENT NO. WOOD-DUVALL RD-2080-03

15'x10' WATER EASEMENT NO. WOOD-DUVALL RD-2080-04

RECONNECT EXIST. NEAR SIDE SERVICE PER STD PLAN 13B, TYP

RECONNECT EXIST. NEAR SIDE SERVICE PER STD PLAN 13B, TYP

REMOVE EXIST. HYDRANT SEE NOTE 17

162nd AVE N.E.

CAREFULLY REMOVE EXIST. 12" CONC. STORM DRAIN AND TWO CATCH BASINS AND REPLACE AFTER WATER MAIN INSTALLED

STATION 29+50 MATCH LINE SEE SHEET 5

MATCH LINE SEE SHEET 7 STATION 34+50

#1 #2 #3 #4 #5 #6 #7

286 LF± 12" DI

156 LF± 12" DI

354 LF± 12" DI

EXIST. 6" AC

18'

N.E. WOODINVILLE-DUVALL RD.

10'x5'x5' WATER EASEMENT NO. WOOD-DUVALL RD-2080-02

10'x5'x5' WATER EASEMENT NO. WOOD-DUVALL RD-2079-02

RELOCATE AND RECONNECT EXIST. FAR SIDE SERVICES PER STD PLAN 13B, TYP. PUSH UNDER ROAD WITH 2" SCH. 80 PVC CASING. SEE NOTE 18

RELOCATE THIS METER TO STA. 30+88, 30' RT TO AVOID FUTURE SIDEWALK

RELOCATE AND RECONNECT EXIST. FAR SIDE SERVICES PER STD PLAN 13B, TYP. PUSH UNDER ROAD WITH 2" SCH. 80 PVC CASING, TYP. SEE NOTE 18

STA. 32+55, 18' LT SEE CONNECTION DETAILS ON SHEET W13

WATER MAIN AT 5' COVER VERIFY DEPTH OF 6" AC CROSS UNDER 6" AC FOR AC PIPE SUPPORT SEE DETAIL A/W16

RELOCATE AND RECONNECT EXIST. FAR SIDE SERVICE PER STD PLAN 13B, TYP. PUSH UNDER ROAD WITH 2" SCH. 80 PVC CASING. SEE NOTE 18

5'x5' WATER EASEMENT NO. WOOD-DUVALL RD-2080-05

POLLNITZ / HESS (16025) NE WOODINVILLE DUVALL RD

WOOLMAN (16023) NE WOODINVILLE DUVALL RD METER #5 NO. 97606400

LAKE LEOTA RESIDENTIAL TRUST / SHEPLER (16053) NE WOODINVILLE DUVALL RD METER #6 NO. 97606400

(16072) NE WOODINVILLE DUVALL RD METER #7 NO. 17344682

T.L. 404590-0121 VACANT LOT

WHITE (16219) NE WOODINVILLE DUVALL RD METER NO. 8312-276

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09/26/11

WOODINVILLE WATER DISTRICT

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DATE

375 370 365 360 355 350 345

PROPOSED 12" SD

286 LF± 12" DI, 18' LT

6" GAS

12"x6" TEE & FH

APPROX. EXIST. GROUND LINE ABOVE PIPE

STA. 31+86, 20' LT SD CB

5'

12" SD

156 LF± 12" DI, 18' LT

CROSS UNDER EXIST 2" GAS IE 2" GAS 356.5± CROWN 12" W = 355.0±

12" GATE VALVE
12"x8" TEE (FL)
12" GATE VALVE

VERIFY DEPTH. ASSUMED DEPTH SHOWN

MIN 12" CLEAR

STA. 33+98, 19' LT SD CB

STA. 33+07, 25.5' LT OUTLET 12" SD

5.5'

354 LF± 12" DI, 18' LT

MIN 6" CLEAR

4.2'

12" SD

CROSS OVER EXIST 12" SD AT 4.2' COVER AND 6" BETWEEN WATER AND STORM
IE 12" W = 348.43
CROWN 12" SD = 347.93
PROVIDE 6" ETHAFOAM CUSHION BETWEEN WATER MAIN AND STORM DRAIN

30+00 31+00 32+00 33+00 34+00

No.	Date	By	Ckd	Revision

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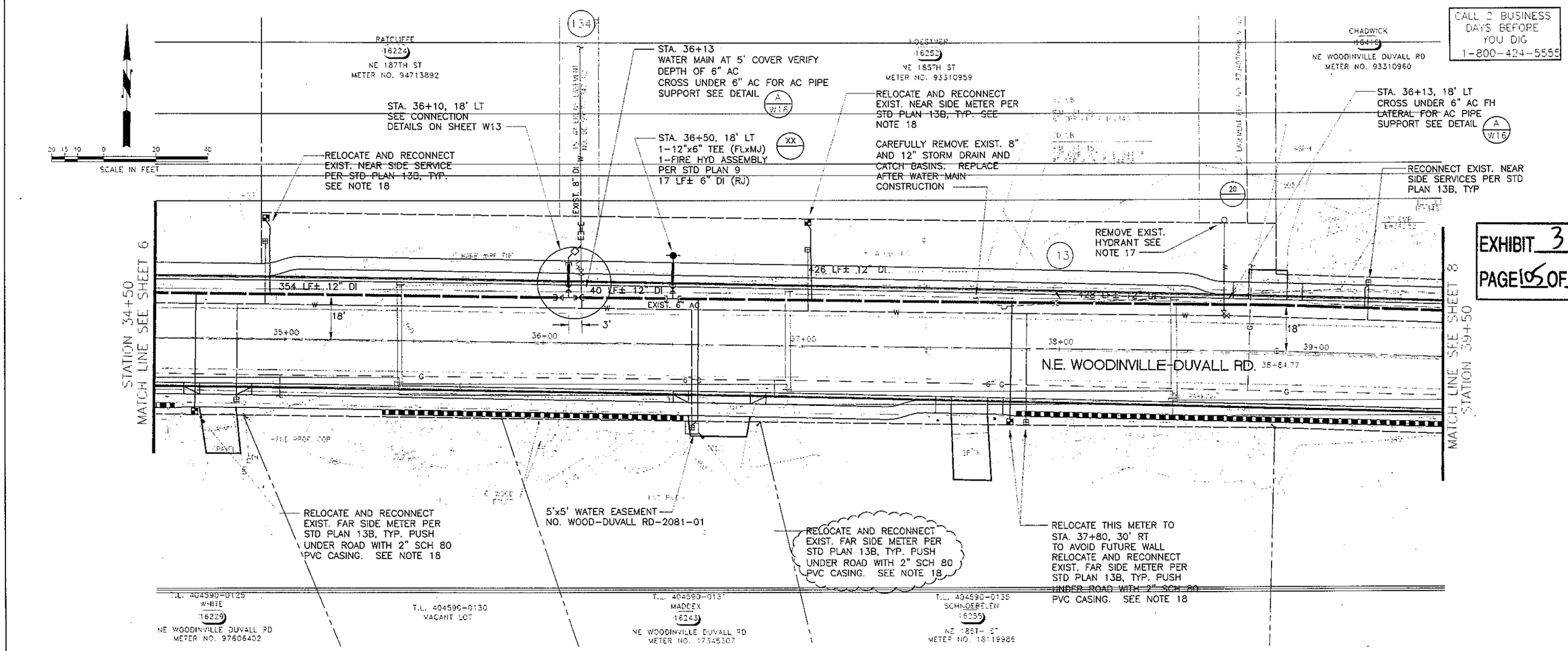
WOODINVILLE WATER DISTRICT

WOODINVILLE - DUVALL ROAD
WATER MAIN REPLACEMENT
STATION 29+50 THRU STATION 34+50

Scale: Horiz. 1"=20 Vert. 1"=5'
Sheet W6 Of X
Job No. 141002
W2080

141002-WWD DUVALL RD.dwg 1:1 22x34 09/26/11

A PORTION OF THE SE 1/4 OF SECTION 2, AND NE 1/4 SECTION 11, AND THE SW 1/4 OF SECTION 1, AND NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON



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WOODINVILLE WATER DISTRICT

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DATE

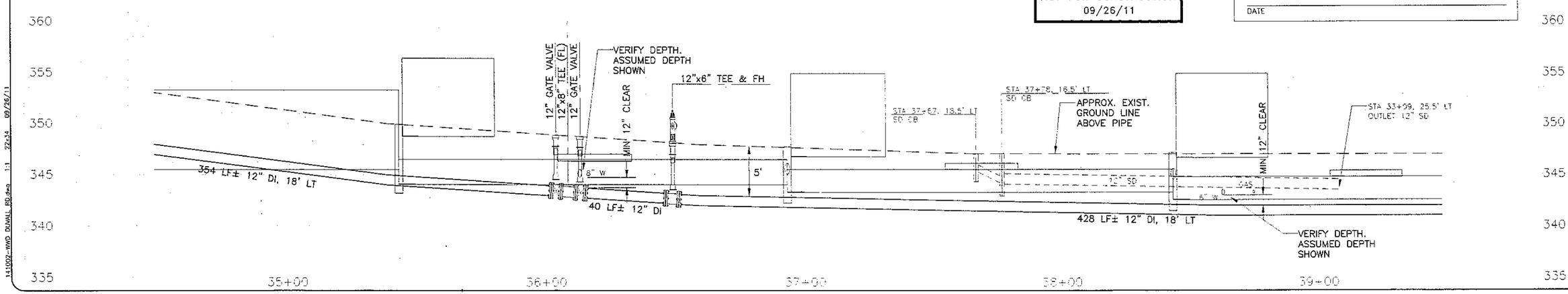

EXHIBIT 3
PAGE 15 OF 14

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WOODINVILLE WATER DISTRICT

WOODINVILLE - DUVALL ROAD
WATER MAIN REPLACEMENT
STATION 34+50 THRU STATION 39+50

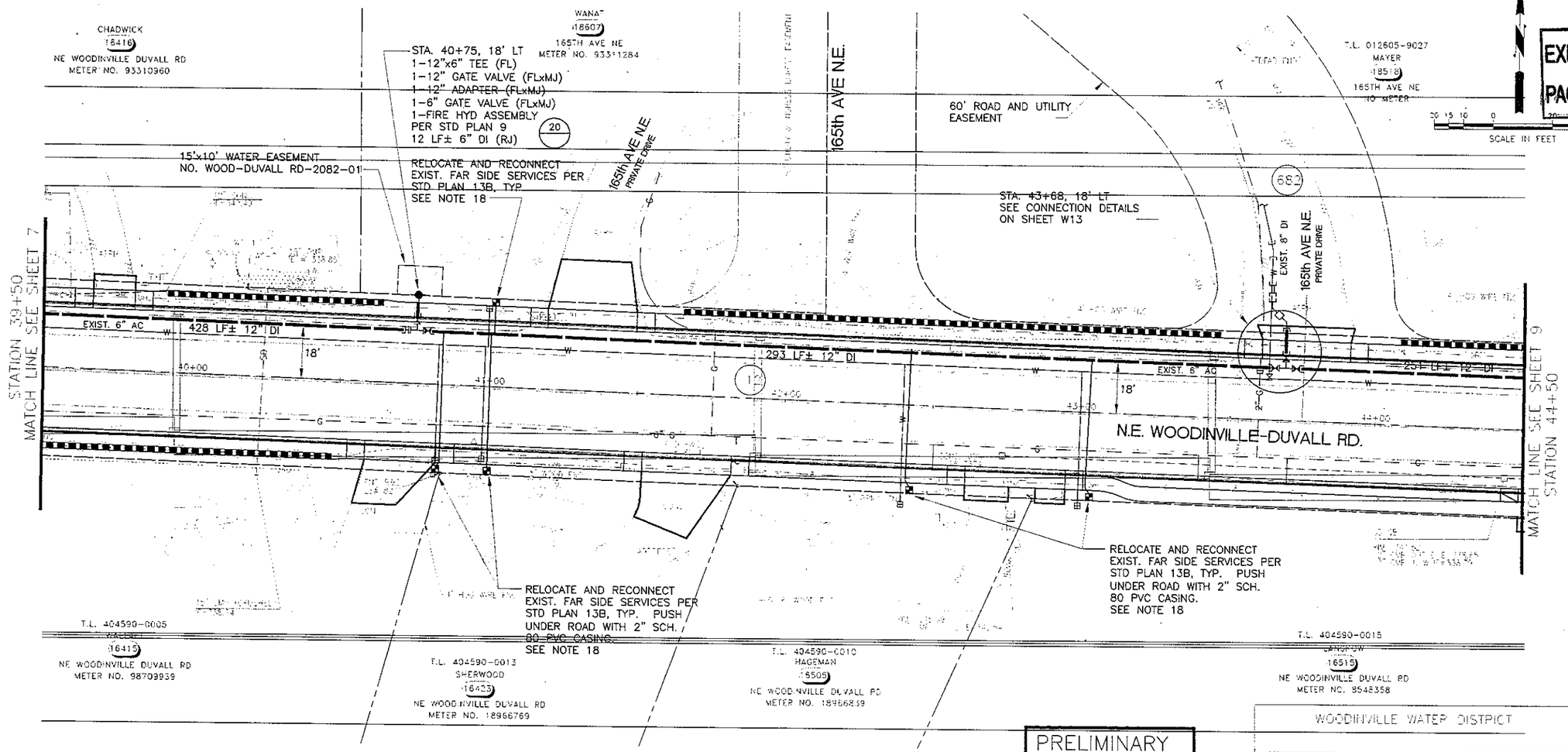
Scale: Horiz. 1"=20' Vert. 1"=5'
Sheet W7 Of
Job No. 141002
W2081

141002-WID DUVALL RD.dwg 1:1 22:34 09/26/11

CALL 2 BUSINESS DAYS BEFORE YOU DIG 1-800-424-5555

A PORTION OF THE SW 1/4 OF SECTION 1, AND THE NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON

EXHIBIT 3
PAGE 10 OF 14



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WOODINVILLE WATER DISTRICT

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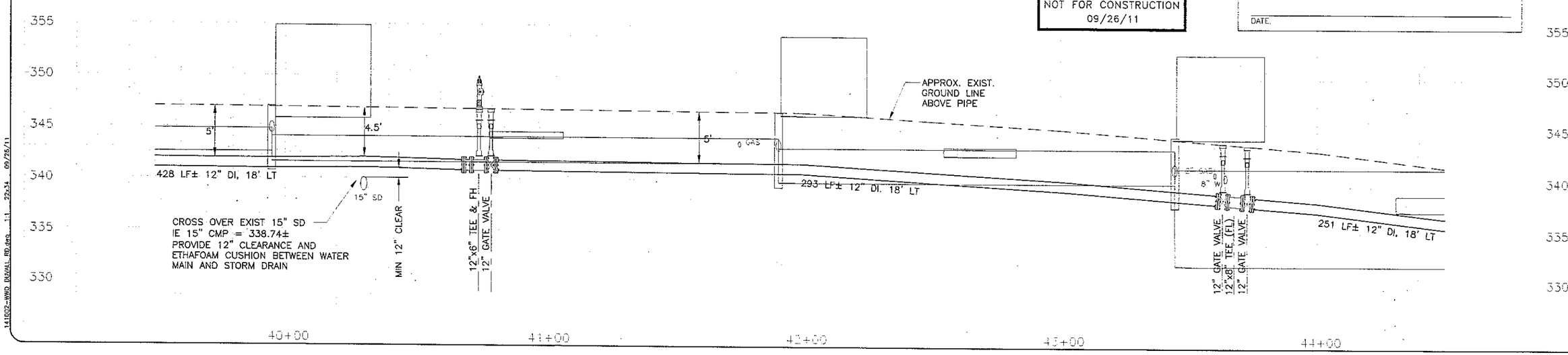
DATE.



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WOODINVILLE WATER DISTRICT

WOODINVILLE - DUVALL ROAD
WATER MAIN REPLACEMENT
STATION 39+50 THRU STATION 44+50

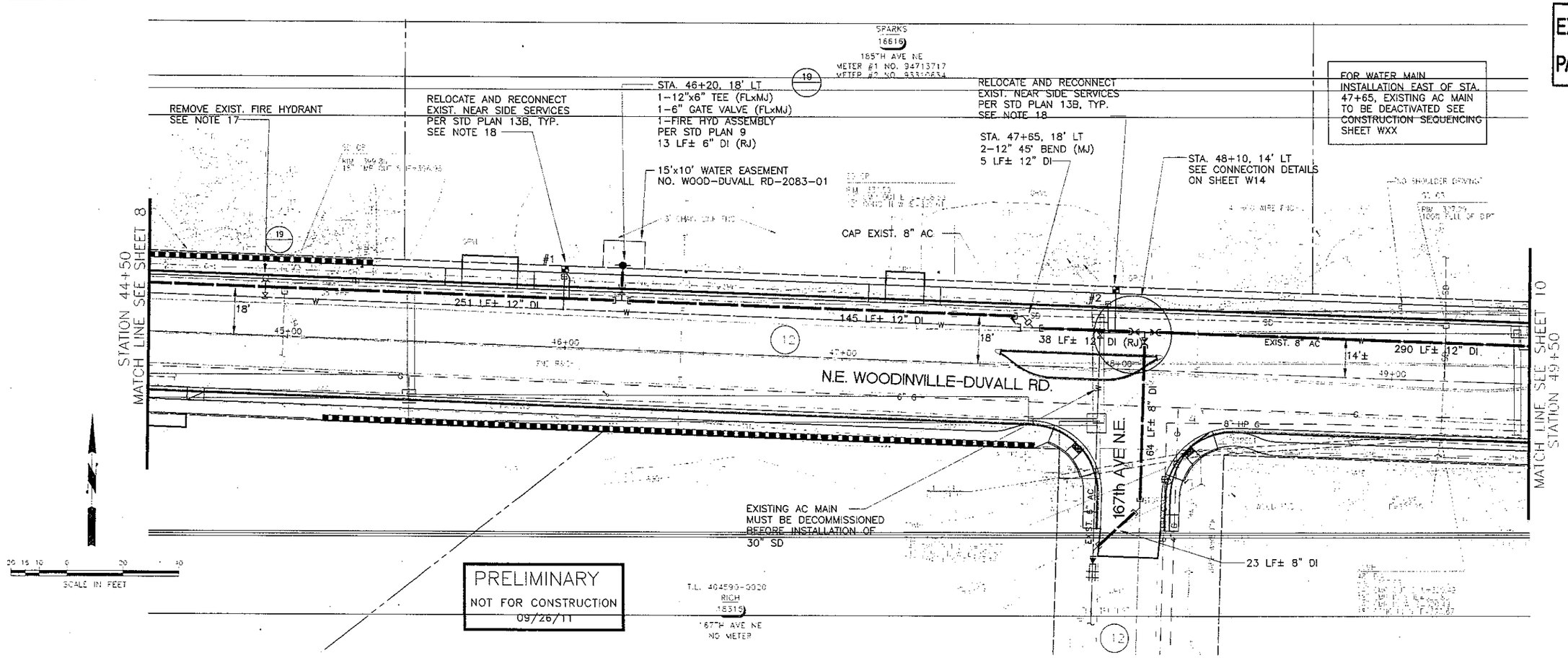
Scale: Horiz 1"=20 Vert. 1"=5'
Sheet W8 Of
Job No. 141002
W2082

141002-WOD DUVALL RD.dwg 11 22x34 09/26/11

CALL 2 BUSINESS DAYS BEFORE YOU DIG 1-800-424-5555

A PORTION OF THE SW 1/4 OF SECTION 1, AND THE NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON

EXHIBIT 3
PAGE 07 OF 14



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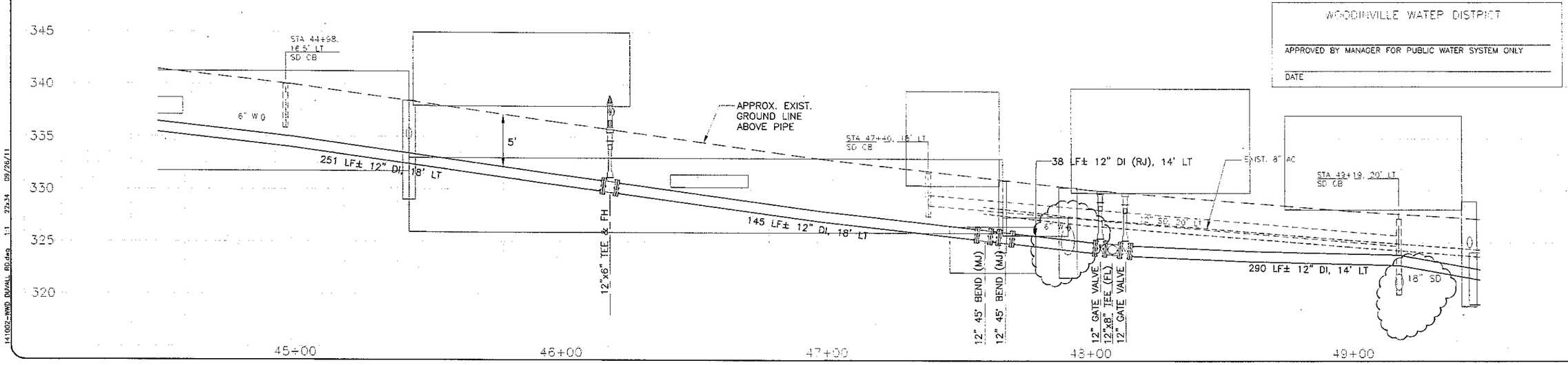

WOODINVILLE WATER DISTRICT

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EVAN F. HENIKE, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER

ALBERT C. DAHL, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER

CHS ENGINEERS, LLC
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WOODINVILLE WATER DISTRICT

WOODINVILLE - DUVALL ROAD
WATER MAIN REPLACEMENT
STATION 44+50 THRU STATION 49+50

Scale: Horiz. 1"=20' Vert. 1"=5'
Sheet W9 Of X
Job No. 141002
W2083

141002-WWD DUVALL RD.dwg 1:1 22x34 09/26/11

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A PORTION OF THE SW 1/4 OF SECTION 1, AND THE NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON

EXHIBIT 3
PAGE 10 OF 14

SCALE IN FEET

15'x10' WATER EASEMENT
NO. WOOD-DUVALL RD-2084-01

T.L. 012605-9011
BUTEUX
16616
168TH AVE NE
METER NO. 8633416

STA. 51+00, 18' LT
1-12"x6" TEE (FLxMJ)
1-6" GATE VALVE (FLxMJ)
1-FIRE HYD ASSEMBLY
PER STD PLAN 9
17 LF± 6" DI (RJ)

RELOCATE AND RECONNECT
EXIST. NEAR SIDE SERVICES
PER STD PLAN 13B, TYP

FOR WATER MAIN
INSTALLATION EAST OF STA.
47+65, EXISTING AC MAIN
TO BE DEACTIVATED. SEE
CONSTRUCTION SEQUENCING
SHEET WXX

NORTH SIDE
PHASE 1
24 LF± 8" DI (RJ)
1-8" 45° BEND (MJ)
1-2" TEMP BLOW-OFF
EXTEND TO SHOULDER

PHASE 2
AFTER PRESSURE AND PURITY
TESTING STERILIZE CONNECTION
REMOVE PLUG
5 LF± 8" DI
1-8" 45° BEND (MJ) ROTATE
1-8" DI SPOOL
1-8" SLEEVE (MJ)

T.L. 012605-9013
18532

STA. 53+64, 17' LT
SEE CONNECTION
DETAILS ON SHEET W14

168th AVE N.E.

EXIST. 8" AC

STATION 49+50
MATCH LINE SEE SHEET 9

290 LF± 12" DI

118 LF± 12" DI

EXIST. 8" AC W.

135 LF± 12" DI

EXIST. 8" DI
EXIST. 8" AC ABANDONED

N.E. WOODINVILLE-DUVALL RD.

MATCH LINE SEE SHEET 11
STATION 54+50

EXIST. 8" DI

MACK ELEMENTARY
PRIVATE DRIVE

RECONNECT EXIST. FAR SIDE
SERVICES PER STD PLAN 13B,
TYP. PUSH UNDER ROAD
WITH 2" SCH. 80 PVC CASING.
SEE NOTE 18

STA. 52+19±, 14' LT
ONCE AC MAIN DEACTIVATED WWD TO
SHUT VALVES ON 168TH AVE NE AND
BACK ELEMENTARY ACCESS ROAD.
REMOVE 8" AC PIPE, TEES AND
VALVES
1-12"x8" CROSS (FL)
2-8" GATE VALVES (FLxMJ)
2-12" GATE VALVES (FLxMJ)
PROVIDE TEMP CAPS ON 8" DI AND
8" AC

SOUTH SIDE
PHASE 1
13 LF± 8" DI (RJ)
1-8" 45° BEND (MJ)
ROTATE VERTICALLY AS NEEDED
TO MATCH EXISTING
1-8" PLUG, (MJ)

PHASE 2
AFTER PRESSURE AND PURITY
TESTING SERIALIZE CONNECTION
REMOVE PLUG
5 LF± 8" DI
1-8" 45° BEND (MJ) ROTATE
1-8" DI SPOOL
1-8" SLEEVE (MJ)

T.L. 122605-9189

T.L. 404590-0142
JOPNEY
16715
NE WOODINVILLE DUVALL RD
METER NO. 9471396

PRELIMINARY
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09/26/11

CROSS OVER EXIST 18" SD
IE 18" CMP = 319.62±
PROVIDE 4" CLEARANCE AND
ETHAFOAM CUSHION BETWEEN
WATER MAIN AND STORM DRAIN

WOODINVILLE WATER DISTRICT

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APPROX. EXIST.
GROUND LINE
ABOVE PIPE

12" GATE VALVE
12"x8" CROSS (FL)
12" GATE VALVE

EXIST. 8" AC

290 LF± 12" DI, 14' LT

118 LF± 12" DI, 14' LT

135 LF± 12" DI, 14' LT

12"x6" TEE & FH

18" SD

PROPOSED 30" SD

12" SLEEVE (MJ)
12"x8" RED (MJ)

EXIST. 8" DI

330
325
320
315
310

50+00
51+00
52+00
53+00
54+00

No.	Date	By	Ckd	Revision

STATE OF WASHINGTON
MARK F. HEUKE
STATE REGISTERED PROFESSIONAL ENGINEER

STATE OF WASHINGTON
MARK C. DAHL
23618
STATE REGISTERED PROFESSIONAL ENGINEER

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WOODINVILLE WATER DISTRICT

WOODINVILLE - DUVALL ROAD
WATER MAIN REPLACEMENT
STATION 49+50 THRU STATION 54+50

Scale:
Horiz. 1"=20'
Vert. 1"=5'

Sheet W10
Of

Job No. 141002

W2084

141002-WWD DUVALL RD.dwg 1:1 22x34 09/26/11

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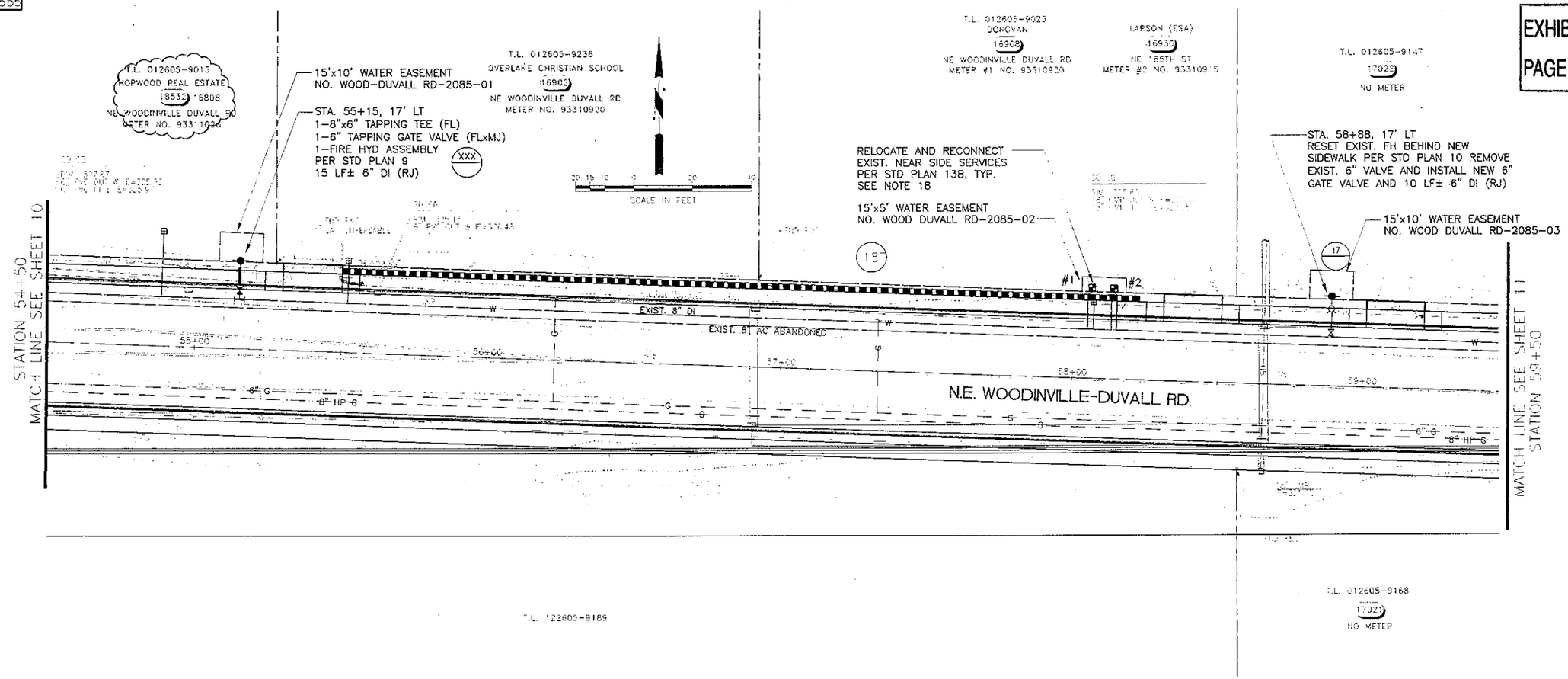
A PORTION OF THE SW 1/4 OF SECTION 1, AND THE NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON

EXHIBIT 3
PAGE 109 OF 114



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WOODINVILLE WATER DISTRICT

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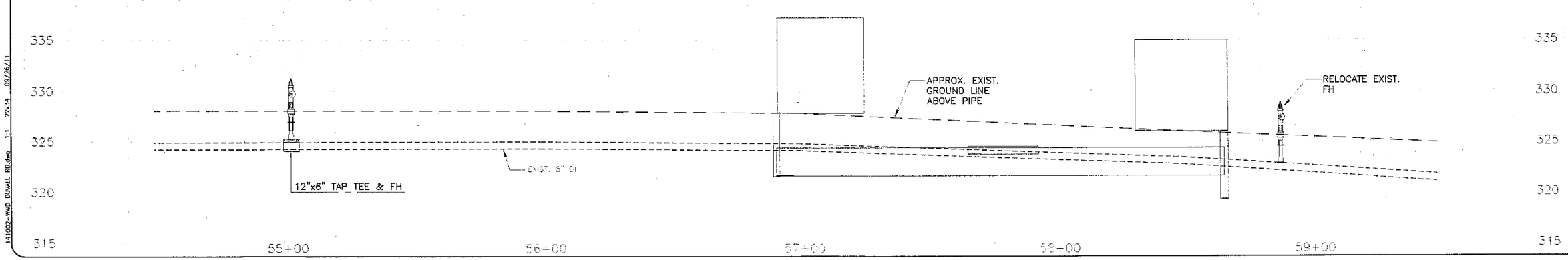

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WOODINVILLE WATER DISTRICT

WOODINVILLE - DUVALL ROAD
WATER MAIN REPLACEMENT
STATION 54+50 THRU STATION 59+50

Scale: Horiz 1"=20' Vert. 1"=5'
Sheet W1 Of
Job No. 141002
W2085

141002-WWD_DUVALL_RD.dwg 1:1 22x34 09/26/11

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A PORTION OF THE SW 1/4 OF SECTION 1, AND THE NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON

EXHIBIT 3
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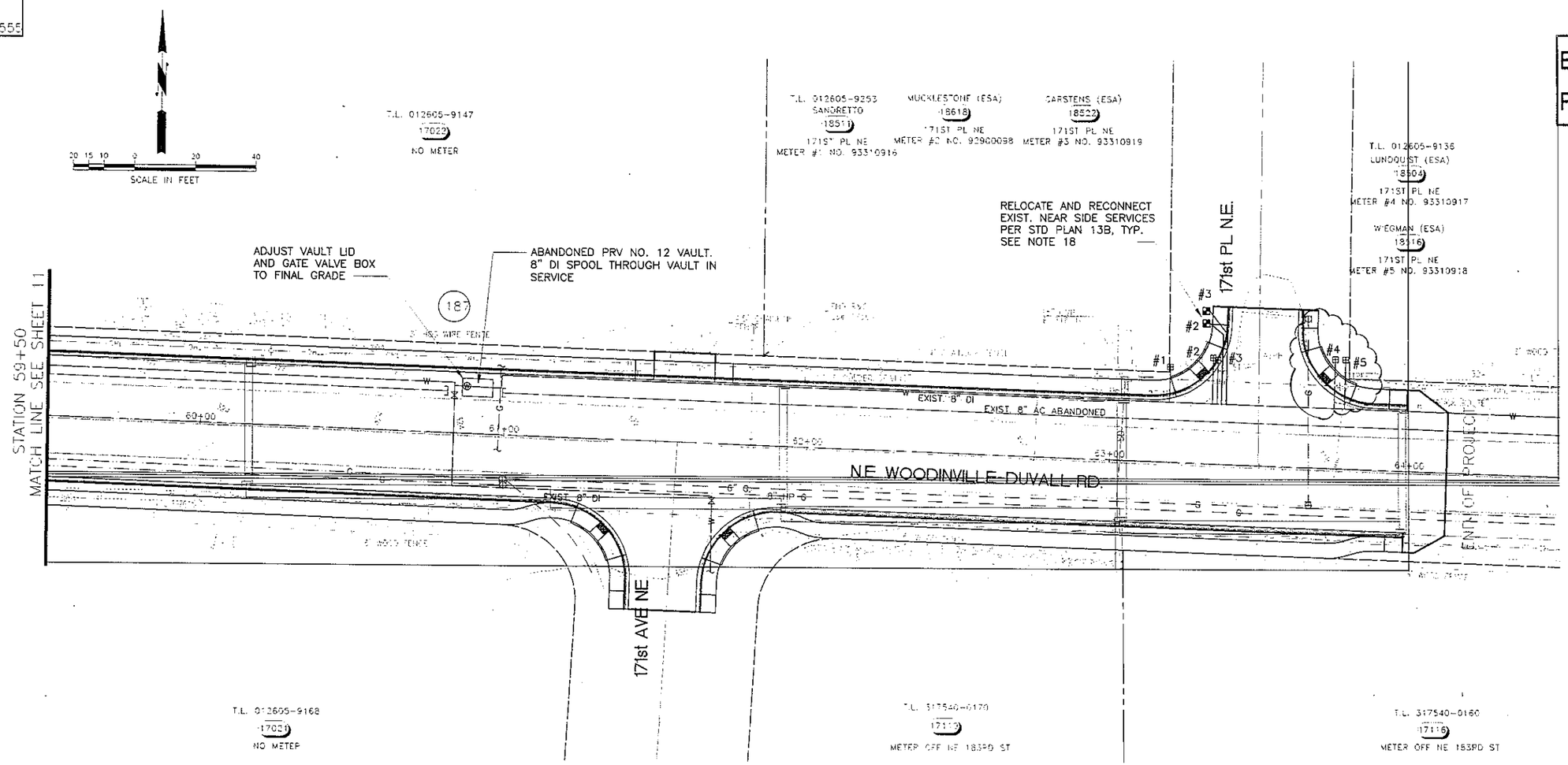

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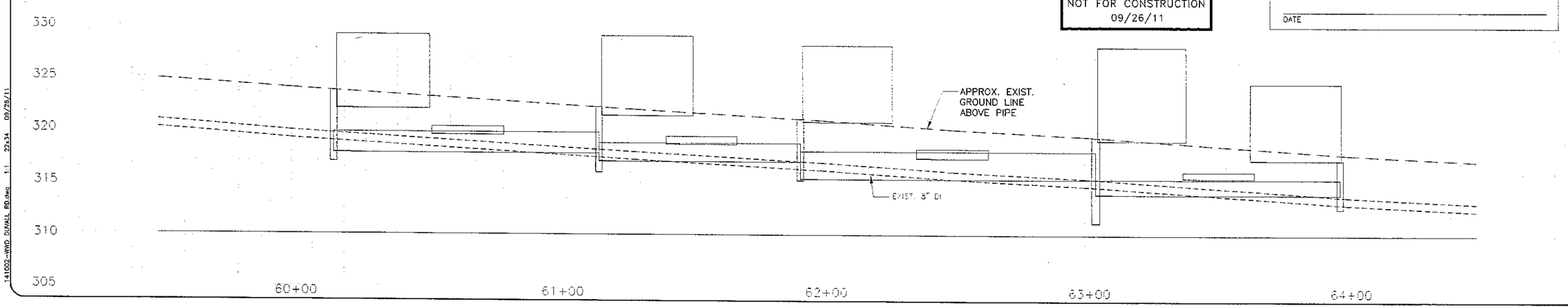

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WOODINVILLE WATER DISTRICT

WOODINVILLE - DUVALL ROAD
WATER MAIN REPLACEMENT
STATION 59+50 THRU STATION 64+50

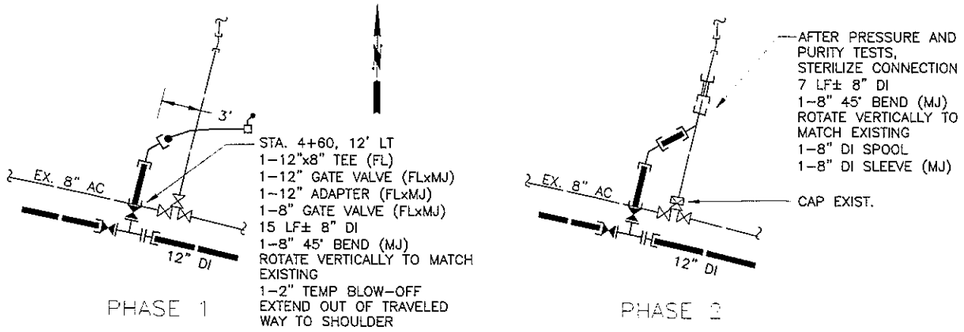
Scale: Horiz 1"=20' Vert. 1"=5'

Sheet W12 Of 25

Job No. 141002

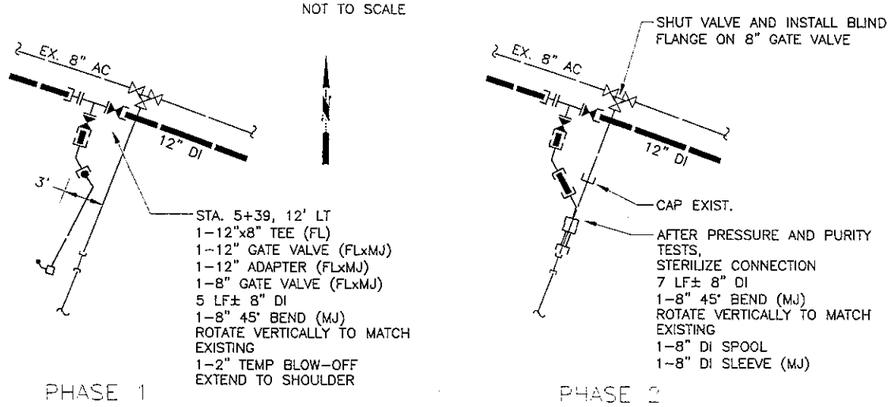
W2086

141002-WID DUVALL RD.dwg 1:1 22x34 09/26/11



CONNECTION DETAILS SHEET W2

NOT TO SCALE



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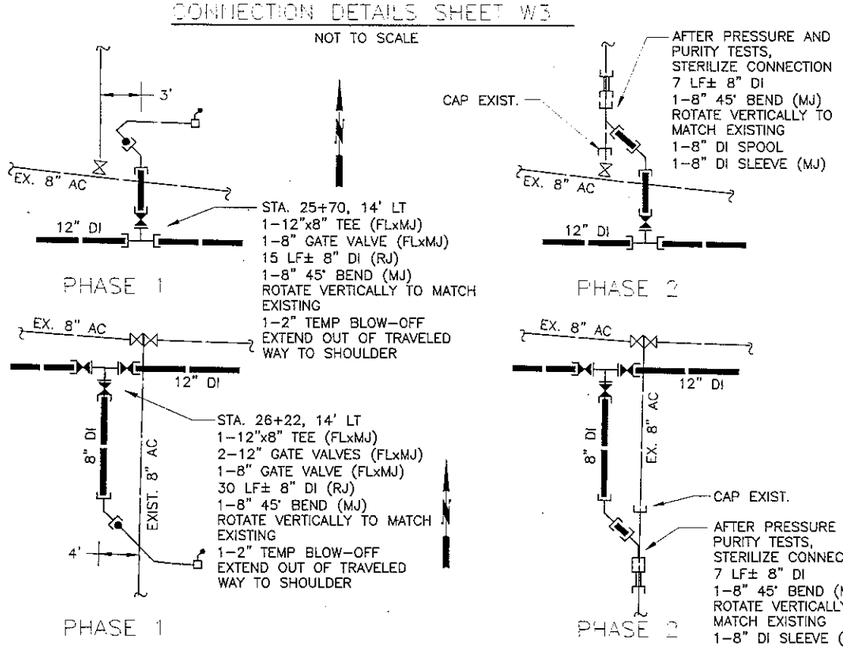

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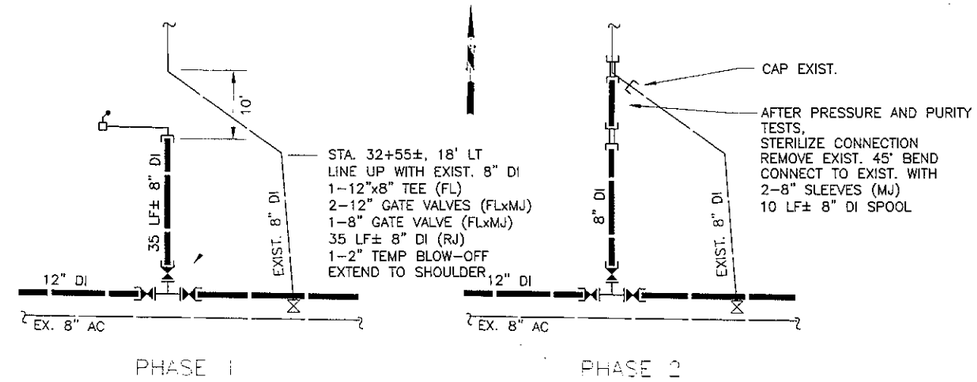

CONNECTION DETAILS SHEET W6

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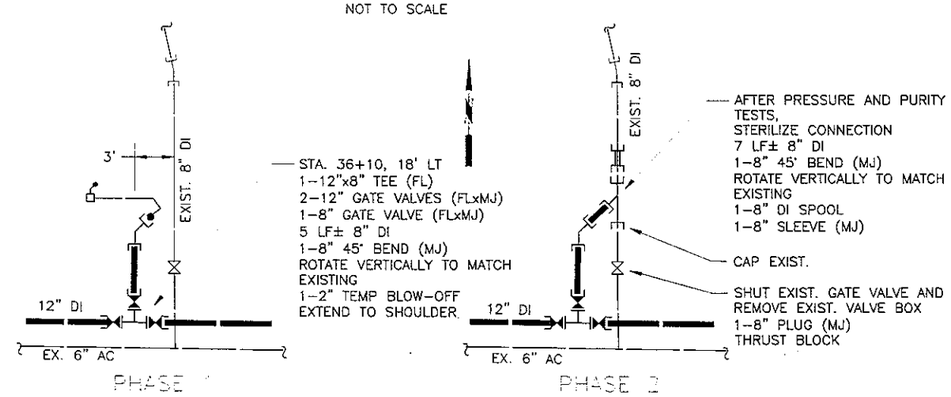

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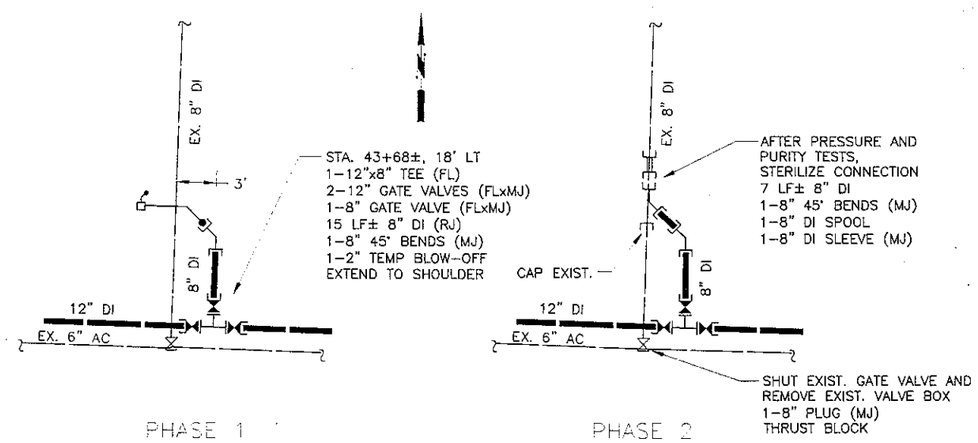

CONNECTION DETAILS SHEET W8

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CALL 2 BUSINESS DAYS BEFORE YOU DIG 1-800-424-5555

EXHIBIT 3
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WOODINVILLE WATER DISTRICT

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12507 BEL-RED ROAD SUITE 101
BELLEVUE, WA 98005-2500
TEL (425) 837-3693 - FAX (425) 837-3694
www.chsengineers.com

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WOODINVILLE WATER DISTRICT

WOODINVILLE - DUVALL ROAD
WATER MAIN REPLACEMENT
CONNECTION DETAILS

Scale: Horiz. NTS Vert. N/A
Sheet W13 Of X
Job No. 141002
W2087

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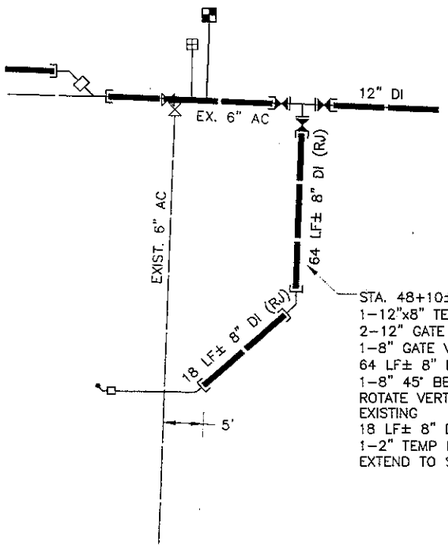
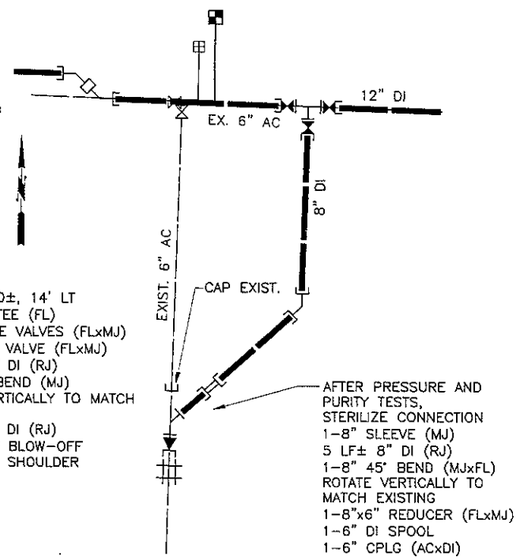


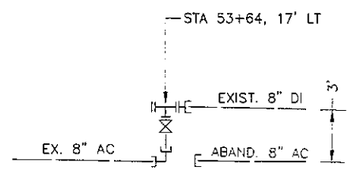
PHASE 1



PHASE 2

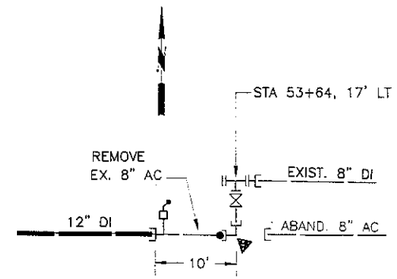
CONNECTION DETAILS SHEET W9

NOT TO SCALE



ONCE AC MAIN DEACTIVATED BLOCK EXIST. TEE AND GATE VALVE. WWD TO SHUT VALVE KEEPING 8" DI TO THE EAST ACTIVE

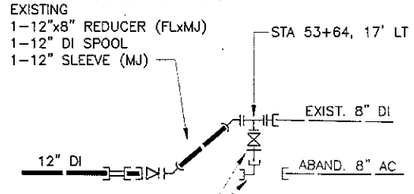
PHASE 1



REMOVE EXIST. 8" AC MAIN PLUG EXIST. 8" 90° BEND AND ADD THRUST BLOCK
2" TEMP BLOW-OFF
EXTEND TO SHOULDER

PHASE 1A

AFTER PRESSURE AND PURITY TESTS, REMOVE EXIST. 8" BLIND FLANGE AND CONNECT TO EXIST. WITH
1-8" 45° BEND (FLxMJ)
ROTATE VERTICALLY TO MATCH EXISTING
4 LF± 8" DI SPOOL
1-8" 45° BEND (FLxMJ)
ROTATE VERTICALLY TO MATCH EXISTING
1-12"x8" REDUCER (FLxMJ)
1-12" DI SPOOL
1-12" SLEEVE (MJ)



REMOVE EXIST. SPOOL AND 90° BEND
1-8" BLIND FLANGE ON EXIST GATE VALVE
BLOCK VALVE

PHASE 2

EXHIBIT 3
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CONNECTION DETAILS SHEET W10

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WOODINVILLE WATER DISTRICT

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EVAN F. HEINE — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

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WOODINVILLE WATER DISTRICT

WOODINVILLE - DUVALL ROAD
WATER MAIN REPLACEMENT
CONNECTION DETAILS

Scale: Horiz. NTS Vert. N/A
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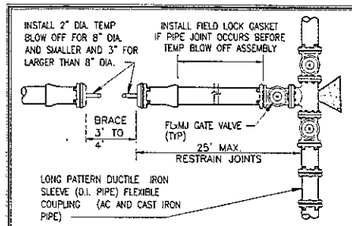
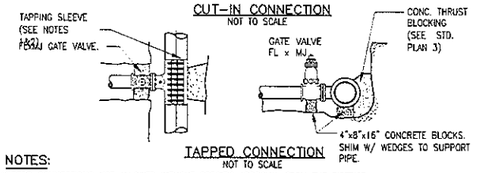
141002-WWD DUVALL RD.dwg 1:1 22x34 09/26/11



TEMP BLOW-OFF

CUT-IN CONNECTION
NOT TO SCALE

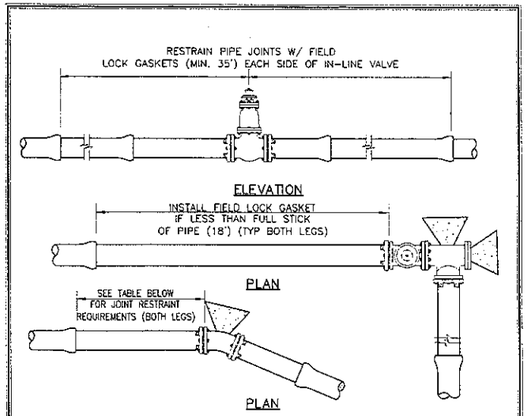


TAPPED CONNECTION
NOT TO SCALE

NOTES:

1. TAPPED CONNECTIONS NOT ALLOWED WITHOUT SPECIFIC APPROVAL FROM THE DISTRICT.
2. NO CONNECTION WILL BE ALLOWED UNTIL ALL PRESSURE TESTING COMPLETED, AND SATISFACTORY BACTERIOLOGICAL TEST RECEIVED. SEE CROSS CONNECTION CONTROL SECTION IN SPECIFICATIONS.
3. TAPPING SLEEVE TO BE STAINLESS STEEL FOR AC PIPE AND EPOXY COATED STEEL FOR DUCTILE OR CAST IRON PIPE. CLOSEST EDGE OF TAPPING SLEEVE MUST BE 3' (MIN.) FROM COUPLING ON AC PIPE.
4. SEE STANDARD PLANS 6 (VALVE BOX), 3 (THRUST BLOCKING) & 2 (PIPE AND FITTING RESTRAINT REQUIREMENTS.)
5. BACKFILL PER JURISDICTIONAL REQUIREMENTS WHEN IN ASPHALT. ALL OTHER AREAS PER THE STANDARD SPECIFICATIONS.
6. TEMP BLOW OFF'S MUST BE PROTECTED FROM DAMAGE. PLACE IN TRAFFIC BOX IF REQUIRED.
7. WATER OUTAGE ONLY ALLOWED TUESDAY THROUGH THURSDAY 9:00AM TO 3:00PM. (2) WORKING DAYS NOTICE REQUIRED.
8. ALL MJ JOINTS TO BE MEGALUG OR EQUAL.
9. SIMILAR TEMP B.O. REQUIREMENTS FOR TAPPED CONNECTIONS. LOCATE BLOW OFF OUT OF ASPH. WHEN POSSIBLE.
10. ALL FITTINGS AND PIPE SHALL BE STERILE SWABBED. CONNECTION SHALL BE INSPECTED FOR VISUAL LEAKAGE UNDER FULL LINE PRESSURE PRIOR TO BACKFILL.

Woodinville Water District	CONNECTION REQUIREMENTS	WATER STD. PLAN NO. 1	REVISION DATE 9-07

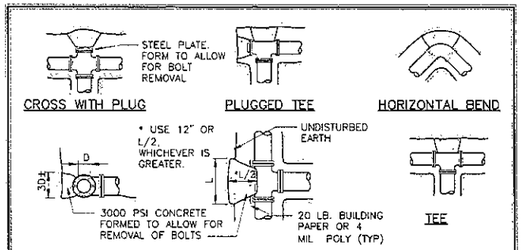


DEGREE OF BEND	RESTRAIN PIPE JOINT IF CLOSER THAN
11 1/4" BEND	NA
22 1/2" BEND	NA
45° BEND	8'
90° BEND	18'

NOTES:

1. THRUST BLOCKING REQUIRED - SEE STANDARD PLAN NO. 3.
2. ADDITIONAL RESTRAINT MAY BE REQUIRED (AS DIRECTED BY THE DISTRICT) FOR POOR GROUND CONDITIONS.
3. MEGALUGS (EBAA IRON OR EQUAL) SHALL BE INSTALLED ON ALL MECHANICAL JOINTS.
4. SEE STANDARD PLANS NO. 4 FOR VERTICAL BEND REQUIREMENTS.

Woodinville Water District	PIPE AND FITTING RESTRAINT REQUIREMENTS	WATER STD. PLAN NO. 2	REVISION DATE 9-07



THRUST BLOCK TABLE

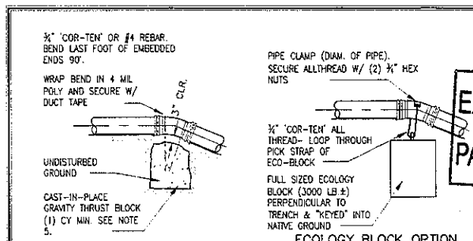
PIPE SIZE	TEE OR END PLUG	90°	45°	22 ½°	11 ¼°
4" OR 6"	3	4	2	2	2
8"	6	7	4	2	2
12"	12	16	9	5	3
16"	21	29	16	8	4

MINIMUM BEARING AREA AGAINST UNDISTURBED EARTH (SQUARE FEET)

NOTES:

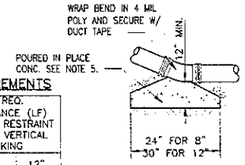
1. BEARING AREA OF CONC. THRUST BLOCK BASED ON 200 PSI PRESSURE AND SOIL BEARING LOAD OF 2000 POUNDS PER SQUARE FOOT.
2. AREAS MUST BE ADJUSTED FOR OTHER SIZE PIPES, PRESSURES AND SOIL CONDITIONS.
3. CONCRETE BLOCKING SHALL BE CAST IN PLACE AND HAVE A MINIMUM OF ½ SQUARE FOOT BEARING AGAINST THE FITTING. SIDES SHALL BE FORMED WITH PLYWOOD OR EQUIVALENT.
4. THRUST BLOCK SHALL BEAR AGAINST FITTING ONLY AND SHALL BE CLEAR OF JOINTS TO PERMIT DISMANTLING OF JOINTS.
5. CONCRETE TO BE 3000 PSI MINIMUM. PRE-MIX CONCRETE IS PREFERRED. IF CONCRETE IS HAND MIXED THE PROPORTIONS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. COMPRESSIVE TESTS OF "HAND MIXED" CONCRETE MAY BE REQUIRED. PRE-INSPECTION OF BLOCKING AREA REQUIRED PRIOR TO PLACEMENT OF CONCRETE.
6. CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATING PRESSURE UNDER ALL CONDITIONS OF SERVICE.
7. SEE STANDARD PLAN NO 2 FOR PIPE AND FITTING RESTRAINT REQUIREMENTS.

Woodinville Water District	THRUST BLOCKING REQUIREMENTS	WATER STD. PLAN NO. 3	REVISION DATE 9-07



CAST IN PLACE

ECOLOGY BLOCK OPTION



REVERSE VERTICAL BENDS

RESTRAINED JOINT REQUIREMENTS

	MIN. REQ. DISTANCE (LF) PIPE RESTRAINT WITHOUT VERT. BLOCKING		MIN. REQ. DISTANCE (LF) PIPE RESTRAINT WITH VERTICAL BLOCKING	
BEND SIZE	8"	12"	8"	12"
11 1/4°	30	30	0	0
22 1/2°	40	40	10	20
45°	NA	NA	20	30

NOTES:

1. DRAWING SUBMITTAL REQUIRED FOR APPROVAL BY THE DISTRICT WHEN PIPE DIAMETER EXCEEDS 12" OR VERTICAL DEFLECTION MORE THAN 45 DEGREES.
2. EBAA IRON MEG-A-LUGS OR EQUAL REQUIRED ON ALL MECHANICAL JOINTS.
3. POOR GROUND CONDITIONS WILL REQUIRE ADDITIONAL RESTRAINT. (AS DIRECTED BY THE DISTRICT).
4. ALL REVERSE VERTICAL BENDS SHALL BE BLOCKED AS SHOWN.
5. CONCRETE TO BE MIN. 3000 PSI COMPRESSIVE STRENGTH.

Woodinville Water District	VERTICAL BLOCKING RESTRAINT REQUIREMENTS	WATER STD. PLAN NO. 4	REVISION DATE 9-07

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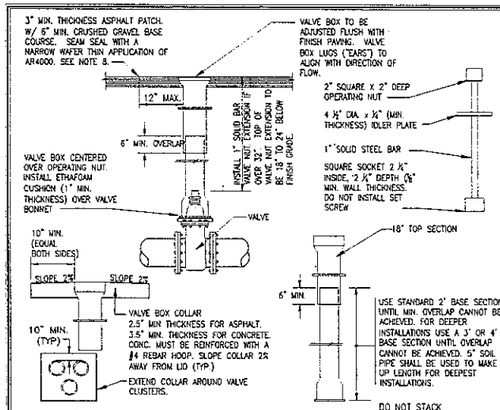


NOTES:

1. VALVE BOX TO BE RICH STYLE 940.
2. VALVE BOX LIDS TO BE 4" DEEP IN TRAFFIC AREAS AND A MIN. OF 3" IN OTHER LOCATIONS. LOCKING VALVE BOX LIDS (AMPRO STYLE 940) REQUIRED IF LIDS WILL NOT STAY PUT DUE TO TRAFFIC.
3. SAWCUT VALVE BOX COMPONENTS. BROKEN OR JAGGED VALVE BOX SECTIONS NOT ACCEPTABLE.
4. OVERLAY ADJUSTMENT RINGS NOT ALLOWED, UNLESS APPROVED BY THE DISTRICT.
5. VALVE BOX COLLARS REQUIRED IF VALVE BOX OUT OF PAVING. PLACE TOP OF COLLAR ½" BELOW THE EXTENDED ROAD SURFACE IN GRAVEL SHOULDERS. COLLARS TO BE FLUSH WITH FINISH LANDSCAPE, SOD OR UNIMPROVED AREAS. SLOPE COLLARS AWAY FROM LID @ 2% (TYP.).
6. VALVE BOX LIDS TO BE PAINTED (2) COATS KELLY MOORE SAFETY YELLOW LUXLITE Q.D. ALKYD GLOSS ENAMEL #6100-563.
7. VALVE MARKER POST AND VALVE BOX COLLAR REQUIRED WHEN VALVE BOX OUTSIDE OF PAVING (EXCEPT FH GATE VALVES). SEE STD PLAN NO. 23.
8. VALVE BOXES SHALL BE ADJUSTED AFTER PAVING AND PATCHED AS SHOWN ABOVE. VALVES CONNECTED TO THE EXISTING SYSTEM SHALL BE MADE ACCESSIBLE AT ALL TIMES.

Woodinville Water District	VALVE BOX INSTALLATION	WATER STD. PLAN NO. 6	REVISION DATE 9-07

SURFACE RESTORATION IN ACCORDANCE WITH LOCAL JURISDICTIONAL REQUIREMENTS. MINIMUM REQUIREMENTS SHOWN IN TRENCH RESTORATION DETAIL.

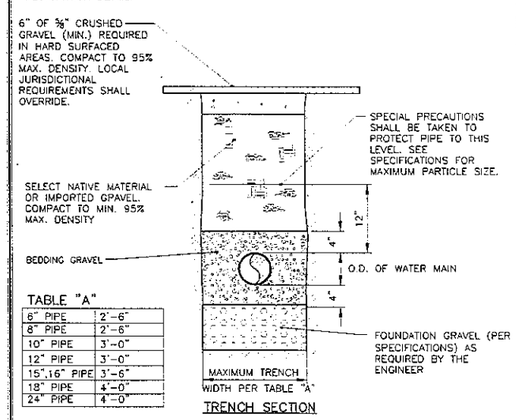


TABLE "A"

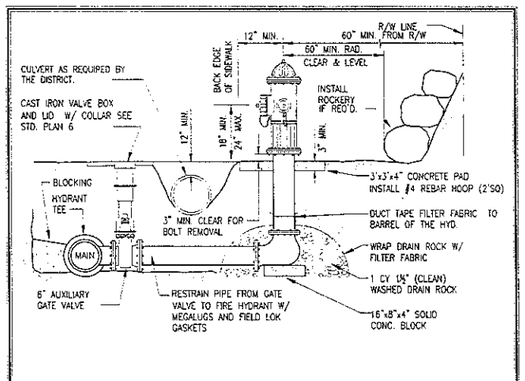
6" PIPE	2'-6"
8" PIPE	2'-6"
10" PIPE	3'-0"
12" PIPE	3'-0"
15",16" PIPE	3'-6"
18" PIPE	4'-0"
24" PIPE	4'-0"

TRENCH SECTION

NOTES:

1. FILL AREAS SHALL BE FILLED AND COMPACTED PRIOR TO INSTALLATION OF WATER MAINS. 95% COMPACTION PER ASTM D-1557 REQUIRED IN FILL AREAS. REPORTS REQUIRED PRIOR TO TRENCHING.
2. BEDDING REQUIRED ONLY IF DIRECTED BY THE DISTRICT DUE TO NATIVE SOIL CONDITIONS. BEDDING SHALL BE ⅜" CRUSHED SURFACING.
3. PUMPING SOILS SHALL BE REMOVED FROM THE TRENCH BACKFILL IMMEDIATELY.

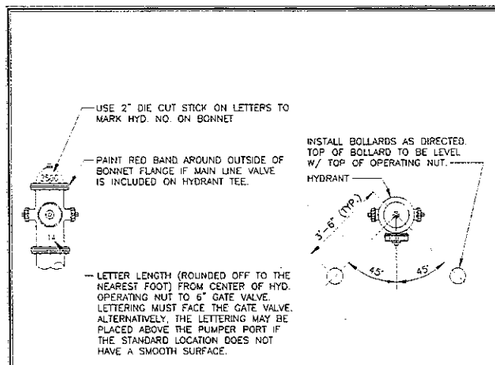
Woodinville Water District	TYPICAL TRENCH SECTION	WATER STD. PLAN NO. 7	REVISION DATE 9-07



NOTES:

1. 6" DIA. CL 52 (PER SPEC'S) TO BE USED IF PIPE RUN UNDER 50'. 8" REQUIRED IF OVER 50'. AN 8"x6" TEE AND 6" GATE VALVE SHALL BE PLACED AT THE END OF AN 8" PIPE RUN W/ 6" D.I. CL 52 TO THE FIRE HYDRANT LOCATION.
2. SEE STANDARD PLANS 3, (THRUST BLOCKING), 6 (VALVE BOX), 7 (TYPICAL TRENCH SECTION) & 8 (TRENCH RESTORATION).
3. PROVIDE LEVEL ACCESS TO FIRE HYDRANT. SEE SPECIFICATIONS.
4. 4" PUMPER PORT W/ SEATTLE THREADS REQUIRED. SEE SPECIFICATIONS. NEW WATER MAINS WILL NOT BE PLACED INTO SERVICE IF WRONG PUMPER PORTS INSTALLED.
5. THE DEVELOPER SHALL PROVIDE SURVEY TO SET THE BASE ELEVATION (TOP OF CONCRETE PAD) OF THE FIRE HYDRANT. SEE THE SPECIFICATIONS FOR REQUIREMENTS.

Woodinville Water District	NEW FIRE HYDRANT INSTALLATION	WATER STD. PLAN NO. 9A	REVISION DATE 9-07



NOTES:

1. FIRE HYDRANTS, BOLLARDS & VALVE BOX LIDS TO BE PAINTED (2) COATS KELLY MOORE SAFETY YELLOW LUXLITE Q.D. ALKYD GLOSS ENAMEL #6100-563.
2. PORT CAP CHAINS SHALL BE RE-INSTALLED AFTER PAINTING.
3. BOLLARDS MAY NOT BE USED WITHIN 10' OF ROADWAY EDGES. PROTECTION FOR FIRE HYDRANTS MUST BE PROVIDED WHERE BOLLARDS CAN'T BE USED. DEVELOPER SHALL SUBMIT PLAN FOR FIRE HYDRANT PROTECTION.

Woodinville Water District	NEW AND RELOCATED FIRE HYDRANT DETAILS	WATER STD. PLAN NO. 9B	REVISION DATE 9-07

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WOODINVILLE WATER DISTRICT

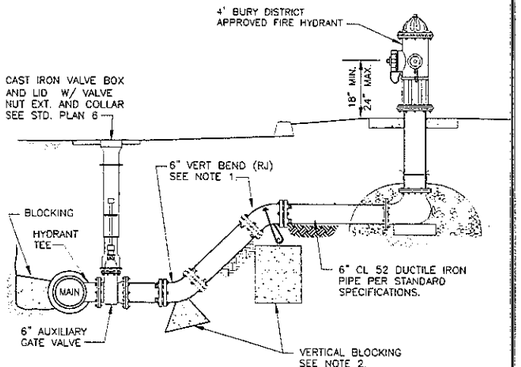
WOODINVILLE - DUVALL ROAD
WATER MAIN REPLACEMENT
STANDARD PLANS

Scale: Horiz. NTS — Vert. N/A

Sheet W.15 Of

Job No. 141002 — W2089

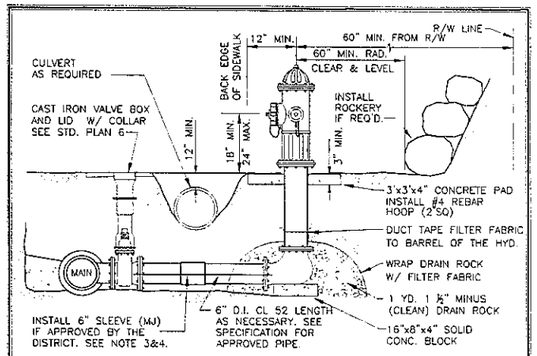
141002-WWD DUVALL RD.dwg 1:1 22x34 09/26/11



NOTES:

1. MAX. BURY DEPTH FOR FIRE HYDRANTS SHALL BE 6'. FOR DEEPER INSTALLATIONS INSTALL A 4' FIRE HYDRANT WITH VERTICAL BENDS AS SHOWN. 45° MAX. VERTICAL BEND.
2. INSTALL GRAVITY BLOCKING PER STANDARD PLAN NO. 4.
3. SEE STANDARD PLANS 9A, 9B AND STANDARD SPECIFICATIONS FOR NEW HYDRANT INSTALLATION REQUIREMENTS.

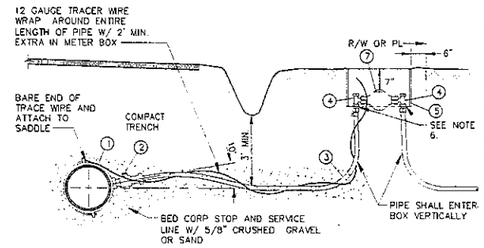
Woodinville Water District	DEEP FIRE HYDRANT INSTALLATION	WATER STD. PLAN NO. 9D	REVISION DATE 9-07



NOTES:

1. ALL APPLICABLE DETAILS FROM STANDARD PLANS 9A & 9B (NEW FIRE HYDRANT INSTALLATION) APPLY TO RELOCATED FIRE HYDRANT.
2. EXISTING FIRE HYDRANT MUST BE PRESSURE TESTED PRIOR TO RELOCATION AND RETESTED PRIOR TO ACCEPTANCE.
3. REPLACE 6" EXISTING PIPE BACK TO FOOT VALVE IF LESS THAN 4' FROM EXISTING FIRE HYDRANT TO FOOT VALVE.
4. RECONNECT SHACKLE RODS OR EXISTING RESTRAINT SYSTEM. MEGALUG RETAINERS OR EQUAL SHALL BE INSTALLED ON ALL MJ JOINTS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL A FH BARREL EXTENSION, IF NECESSARY, TO COMPLY WITH THE CLEARANCES SHOWN ABOVE.
6. THE DISTRICT MAY CHOOSE TO SUPPLY A NEW FIRE HYDRANT. IN THIS CASE THE CONTRACTOR SHALL PROVIDE THE BURY DEPTH. IF THE FINISH CLEARANCES ARE NOT AS SHOWN ABOVE, AFTER INSTALLATION, THE CONTRACTOR SHALL BE REQUIRED TO MAKE CORRECTIONS, BY INSTALLING A FIRE HYDRANT BARREL EXTENSION OR INSTALLING A DIFFERENT FIRE HYDRANT AS NECESSARY.
7. RELOCATED FIRE HYDRANTS SHALL BE PAINTED AND LETTERED PER THE SPECIFICATIONS. RE-USED FIRE HYDRANTS SHALL BE PRESSURE WASHED (MIN. 3000 PSI) PRIOR TO PAINTING.

Woodinville Water District	RELOCATE EXISTING FIRE HYDRANT	WATER STD. PLAN NO. 10	REVISION DATE 9-07



1" SEE STANDARD PLAN 13M FOR MATERIAL LIST

NOTES:

1. CONTRACTOR TO PROVIDE ALL MATERIALS AS SHOWN EXCEPT METERS (ITEM 7 ABOVE).
2. TRACE WIRES MUST BE VISIBLE IN METER BOX
3. NO SPLICES ALLOWED IN SERVICE LINE.
4. EXISTING SERVICE SHALL BE MAINTAINED UNTIL THE NEW SYSTEM IS PRESSURE TESTED, FLUSHED AND SATISFACTORY BACTERIOLOGICAL TEST RECEIVED. THEN THE CONTRACTOR SHALL COORDINATE WITH THE INDIVIDUAL OWNER AND THE DISTRICT TO SCHEDULE CONNECTION TO THE NEW SYSTEM. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. METER BOX SHALL BE PERPENDICULAR TO SIDEWALK, PROPERTY LINE OR AS DIRECTED METERS SHALL BE CENTERED IN THE METER BOX AND PARALLEL. BOTH ANGLE METER STOPS SHALL BE VERTICAL AND ACCESSIBLE FOR SHUT OFF WITH A METER KEY. METER BOX NOT ALLOWED IN SIDEWALK. PRIOR APPROVAL REQUIRED FOR INSTALLATIONS IN TRAFFIC AREAS.
6. CONTRACTOR SHALL CHECK ALL EXISTING METERS PRIOR TO SERVICE INSTALLATION AND INSTALL THE APPROPRIATE SIZED ANGLE METER STOPS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS TO RECONNECT THE CUSTOMER SIDE OF THE SERVICE.
7. EXISTING METERS TO BE REUSED EXCEPT THOSE IDENTIFIED BY THE DISTRICT TO BE REPLACED. NEW METERS WILL BE SUPPLIED BY THE DISTRICT AND INSTALLED BY THE CONTRACTOR. BACKFILL INSIDE METER BOX TO BOTTOM OF METER REGISTER.
8. FOR SERVICES INSTALLED UNDER THE ROADWAY, WALLS AND SIDEWALKS, A 2" SCH. 80 PVC SLEEVE SHALL BE INSTALLED WITH A SWEEPING CURVE FROM MAIN TO METER BOX. SERVICE PIPE SHALL BE INSTALLED IN THE SLEEVE.

Woodinville Water District	SINGLE FAMILY SERVICE RECONNECTION	WATER STD. PLAN NO. 13B	REVISION DATE 9-07

1" SERVICE MATERIAL LIST

1. SERVICE SADDLE
   ROMAC 101-S, FORD FS101 W/ I.P. THREADS & STAINLESS STEEL STRAP
2. BALL CORP. STOP (W/ 1" I.P. THREADS)
   FORD FB 500 W/ C16-44Q COMP. FITTING & STIFFENER
   MCDONALD 3131B W/ 4754-3T COMP. FITTING & STIFFENER
   MUELLER B-20013 W/ H-15456 INSTA-TITE
3. SERVICE PIPE
   1" DRISCOPIPE ULTRA LINE 5100 HIGH DENSITY POLYETHYLENE SERVICE PIPE MEETING AWWA C901 REQUIREMENTS; PE 3408 MATERIAL, SDR7, PRESSURE CLASS 200 PSI. I.P.S. ACCEPTABLE ALTERNATIVE – EAGLE POLY.
4. BALL ANGLE METER STOP (W/ 1" I.P. THREADS & CONNECTION TO POLY PIPE)

   FOR 1" METER
   1"x1" FORD BA13-444W W/ C86-44Q COMP. FITTING
   1"x1" MUELLER B-24265 W/ H-15426 INSTA-TITE
   1"x1" MCDONALD 4604B W/ 4753-3T COMP. FITTING

   FOR 3/4" METER
   3/4"x1" FORD BA13-342W W/ C86-44Q COMP. FITTING
   3/4"x1" MUELLER B-24265 W/ H-15426 INSTA-TITE
   3/4"x1" MCDONALD 4604B W/ 4753-3T COMP. FITTING

   NOTE: ITEMS 4 & 6 SHALL BE SIZED TO MATCH 3/4" OR 1" METER PRIOR TO INSTALLATION
5. BALL ANGLE METER STOP (W/ 1" I.P. THREADS & CONNECTION TO COPPER PIPE)

   FOR 1" METER
   1"x1" FORD
   1"x1" MUELLER
   1"x1" MCDONALD

   FOR 3/4" METER
   3/4"x1" FORD
   3/4"x1" MUELLER
   3/4"x1" MCDONALD
6. METER BOX

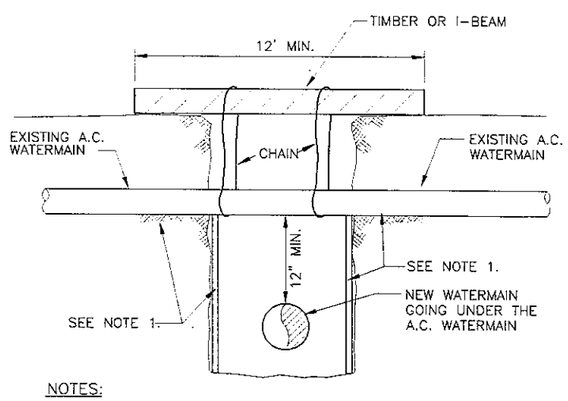
   FOR 1" METER
   CARSON 1220-12-5 (OR APPROVED EQUAL)
   (TRAFFIC AREAS-USE MID
   STATES PLASTICS MSBCF
   1324-12 W/ D.I. LID)

   FOR 3/4" METER
   CARSON 1419 (OR APPROVED EQUAL)
   (TRAFFIC AREAS USE MID
   STATES PLASTICS MSBCF
   1118-12 W/ D.I. LID)
7. DISTRICT WILL PROVIDE (1) METER IDLER PER TYPICAL INSTALLATION (IE. 1" OR 3/4") THE CONTRACTOR SHALL ENSURE THE METER IDLER IS PARALLEL TO THE METER BOX AND CENTERED IN BOTH DIRECTIONS.

Woodinville Water District	1" POLY SERVICE MATERIAL LIST	WATER STD. PLAN NO. 13M	REVISION DATE 9-07

EXHIBIT 3
PAGE 14 OF 14

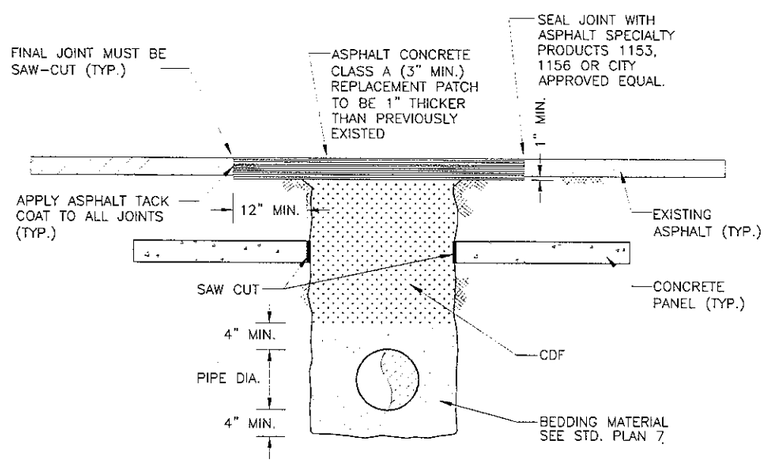
PRELIMINARY
NOT FOR CONSTRUCTION
09/26/11



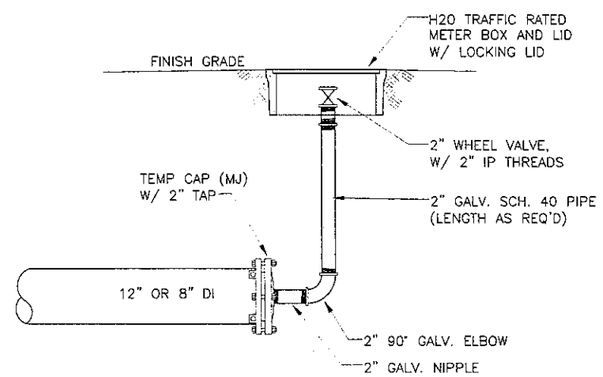
NOTES:

1. AC PIPE SHALL REST ON FIRM BEARING EARTH; SUPPORT EXPOSED SECTION OF AC PIPE WITH TIMBER OR I-BEAM AND CHAINS OR SHORE TRENCH WALL UNDER WATER MAIN AS SHOWN.

A — DETAIL – UNDERCROSSING EXISTING AC MAINS
NOT TO SCALE



B — DETAIL – TRENCH WITH CONCRETE PANEL
NOT TO SCALE



C — DETAIL – 2" TEMPORARY BLOW-OFF
NOT TO SCALE

CALL 2 BUSINESS DAYS BEFORE YOU DIG 1-800-424-5555

WOODINVILLE WATER DISTRICT
APPROVED BY MANAGER FOR PUBLIC WATER SYSTEM ONLY
DATE

No.	Date	By	Chkd	Revision

STEVEN E. HENKE, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER, 33197

MARK C. DAHL, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER, 23816

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12507 BEL-RED ROAD SUITE 101
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www.chsengineers.com

Drawn / Date DJ 09/11
Designed / Date MD 09/11
Checked / Date MD 09/11

WOODINVILLE WATER DISTRICT

WOODINVILLE – DUVALL ROAD
WATER MAIN REPLACEMENT
STANDARD PLANS

Scale: Horiz. NTS Vert. N/A
Sheet W16 Of
Job No. 141002
W2090

141002-WWD DUVALL RD.dwg 1:1 22x34 09/26/11