#0196

AS BUILT

SR 405

BOTHELL TO SWAMP CREEK I/C

HOV LANES - STAGE 1

NORTH CREEK BRIDGE 405/72 NBCD

Washington State Department of Transportation
Olympia, Washington 98504

Scale: Horiz. 1 inch = 200 feet Vert. 1 inch = 200 meters
MP 23.78 to MP 26.64 Constucted Length 2.86 mile(s)
Contract No. 5054 F.A. No. NHS Contractor
Work Begun March 31, 1997 Work Completed October 8, 1999
Project Engineer Patrick McCormick, P.E. District Transportation Administrator John Okamoto
Approved 19__

Secretary of Transportation

PLOT: 09 NOV 96 s:\412347\12095\index.dgn $(username)

s:\412347\12095\index.dgn 09 NOV 96 10:51 $(username) PLOT: 1

INDEX VOL. 1

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FOR "AS CONSTRUCTED PLANS" ONLY

PLAN REFERENCE NO.
SHEET OF SHEETS

NOTE:

FOR ALL SHEET REFERENCES, FIRST NUMBERS OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN REFERENCE NUMBER BOX.

DONALD K. NELSON STATE OF WASHINGTON 21146 REGISTERED PROFESSIONAL ENGINEER

ENVIROMENTAL AND ENGINEERING SERVICE CENTER

EXPIRES FEB. 22, 1997 ALL SHEETS OF THESE PLANS SHALL BE DEEMED APPROVED BY THE SIGNATURE AND STAMP ON THIS SHEET

STATE DESIGN ENGINEER NOV. 15, 1996 APPROVED

DESIGNED BY N. ABEDIN	9/6/96				
ENTERED BY B. SAVILLE	9/6/96				
CHECKED BY N. ABEDIN	9/6/96				
PROJ. ENGR. R.KINOSHITA	9/6/96				
REGIONAL ADM.J. OKAMOTO	9/6/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 96W035		
CONTRACT NO. 5054		

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

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I1

SHEET 1 OF 663 SHEETS

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241 - 256	PV1 - PV16	PAVING PLAN
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279 - 297	ST1 - ST19	CHANNELIZATION AND STRIPING PLAN
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299 - 300	LNW1-1 - LNW1-2	LAYOUT NOISE WALL 1
301 - 302	LNW2-1 - LNW2-2	LAYOUT NOISE WALL 2
303 - 304	NW1E-1 - NW1E-2	NOISE WALL 1 ELEVATION
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317	WP3	STRUCTURAL EARTH WALL - W2
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346	SCN2	SC&DI WIRE NOTES
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FOR "AS CONSTRUCTED PLANS" ONLY

PLAN REFERENCE NO.
SHEET OF SHEETS

NOTE:

FOR ALL SHEET REFERENCES, FIRST NUMBERS OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN REFERENCE NUMBER BOX

DESIGNED BY N. ABEDIN					
ENTERED BY B. SAVILLE					
CHECKED BY N. ABEDIN					
PROJ. ENGR. R.KINOSHITA					
REGIONAL ADM. J. OKAMOTO					
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
96W035		
CONTRACT NO.		
5054		

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

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SHEET 2 OF 663 SHEETS

Sat Nov 09 10:28:59 1996 D412347 T:\412347\A\22F1U-3.PLT
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		VOLUME 4
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FOR "AS CONSTRUCTED PLANS" ONLY

PLAN REFERENCE NO.
SHEET OF SHEETS

NOTE:

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DESIGNED BY N. ABEDIN					
ENTERED BY B. SAVILLE					
CHECKED BY N. ABEDIN					
PROJ. ENGR. R.KINOSHITA					
REGIONAL ADM. J. OKAMOTO					
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 96W035		
CONTRACT NO. 5054		

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

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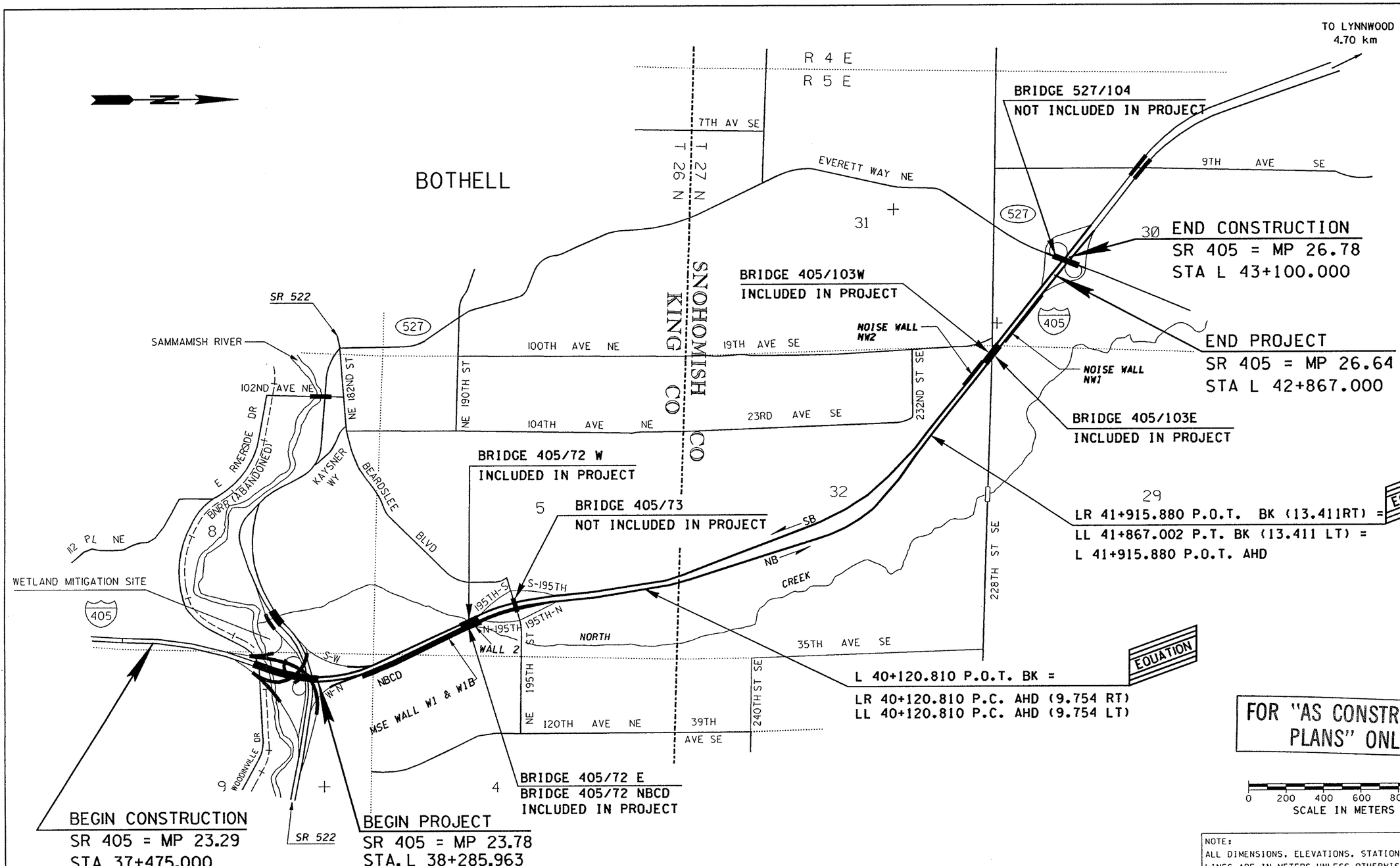

FOR "AS CONSTRUCTED PLANS" ONLY

0 200 400 600 800 1000
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

DESIGNED BY D. MOON	6/22/96				
ENTERED BY B. SAVILLE	6/22/96				
CHECKED BY N. ABEDIN	6/22/96				
PROJ. ENGR. R.KINOSHITA	6/22/96				
REGIONAL ADM. J. OKAMOTO	6/22/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

VICINITY MAP

VIC-1

SHEET 4 OF 663 SHEETS

SUMMARY OF QUANTITIES

96W035/20

PROJECT LIMITS

SR 405

MP 23.78 TO MP 26.64

STA. L 38+285.963 TO STA. L 42+867.000

SEE VICINITY MAP FOR EQUATIONS

ITEM NO.	TOTAL QUANTITY	STD. ITEM NO.	UNIT	ITEM	STATE II FUNDS SR 405 GROUP 1 NB & SB L 37+475 TO 40+120.81 CS 175201	LR 40+120.81 TO 40+283.061 CS 175201	LL 40+120.81 TO 40+286.28 CS 175201	NBCD 8+568.562 TO 9+841.919 CS 175201	W-N RAMP 8+102.626 TO 8+644.223 CS 175201	S-W RAMP 8+271.82 TO 8+589.438 CS 175201	N-195TH 9+236.078 TO 9+409.698 CS 175201	195TH-N 9+408.508 TO 9+651.241 CS 175201	S-195TH 9+392.469 TO 9+799.598 CS 175201	195TH-S 9+155.242 TO 9+425.036 CS 175201	STRUCTURAL EARTH WALL W1 CS 175201	TEMPORARY GEOTEXTILE WALL W1B CS 175201	STRUCTURAL EARTH WALL W2 CS 175201	NW-3 VAULT/ POND CS 175201	NW-6 TANK CS 175201	CITY OF BOTHELL STATE FUNDS SR 405 GROUP 2 BOTHELL AGREEMENT WORK GCA-0570 CS 175201	STATE II FUNDS SR 405 GROUP 3 SAFETY CS 175201	GROUP 4 LANDSCAPE AND WETLAND MITIGATION CS 175201	GROUP 5 BRIDGE 405/72E CS 175201	GROUP 5 BRIDGE 405/72W CS 175201	GROUP 5 BRIDGE 405/72 NBCD CS 175201	GROUP 6 LR 40+283.061 TO 41+915.88 CS 311101
				PREPARATION																						
1	LUMP SUM	0001	L.S.	MOBILIZATION	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.
2	12.9	0280	HA	CLEARING AND GRUBBING	4.3	.2	.5	.3	.8		.2	.47	.5	.27						.06		.5				1.2
3	44		EACH	REMOVING DRAINAGE STRUCTURE	22	1		3				1	1													6
4	LUMP SUM	0061	L.S.	REMOVING PORTION OF EXISTING BRIDGE NO. 405/72E																			L. S.			
5	LUMP SUM	0061	L.S.	REMOVING PORTION OF EXISTING BRIDGE NO. 405/72W																				L. S.		
6	LUMP SUM	0061	L.S.	REMOVING PORTION OF EXISTING BRIDGE NO. 405/103E																						
7	LUMP SUM	0061	L.S.	REMOVING PORTION OF EXISTING BRIDGE NO. 405/103W																						
8		7800	EACH	DELETED ITEM																						
9		7800	EACH	DELETED ITEM																						
10		7800	EACH	DELETED ITEM																						
11	2,710	0595	M	REMOVING BEAM GUARDRAIL																		1,805				
12	14	0171	EACH	REMOVING BEAM GUARDRAIL ANCHOR TYPE 1																		13				
13	9	0173	EACH	REMOVING BEAM GUARDRAIL ANCHOR TYPE 3																		6				
14	15	0174	EACH	REMOVING BEAM GUARDRAIL ANCHOR TYPE 4																		11				
15	1	0178	EACH	REMOVING BEAM GUARDRAIL ANCHOR TYPE 7																						
16		7800	EACH	DELETED ITEM																						
17	10,328	0902	M	REMOVING PAINT STRIPE																		6,150				
18	172	0907	M2	REMOVING PAINTED TRAFFIC MARKING																		104				
19	159	0908	M2	REMOVING PLASTIC TRAFFIC MARKING																		95				
20	47	0208	HUND	REMOVING RAISED PAVEMENT MARKER																		27				
21		7800	EACH	DELETED ITEM																						
				GRADING																						
22	30,152	2945	M3	ROADWAY EXCAVATION INCL. HAUL	10,430	805	660	4,130	390	80	1,080	1,200	1,470	550												3,497
23	3,380		M3	POND EXCAVATION INCL. HAUL														3,380								
24	610	2965	M3	UNSUITABLE FOUNDATION EXCAVATION INCL. HAUL	50			300																		110
25	11,695		T	SPECIAL GRAVEL BORROW INCL. HAUL	4,720	2,400			2,120											2,230		225				
26	18,650	2990	M3	EMBANKMENT COMPACTION	5,580	1,558	167	2,590	940	10	100	200	450	1,245						985						742
27	1	0502	EACH	SETTLEMENT INDICATING DEVICE												1										
28	4		EACH	SETTLEMENT PLATE												4										
29	3,435		M3	WETLAND MITIGATION EXCAVATION INCL.HAUL																			3,435			
				DRAINAGE																						
30	130	4476	M3	DITCH EXCAVATION INCL. HAUL																						
31	67	1055	EACH	GRATE INLET TYPE 1 OR 2	30			29	2																	1
32	78	4505	M3	HAND PLACED RIPRAP	73			1.6	1																	1.6
33	367	4520	M3	QUARRY SPALLS	250	100												5								
34	1,304	4620	M	UNDERDRAIN PIPE 150 MM DIAM.	88			194				150														664
				STORM SEWER																						
35	17	3091	EACH	CATCH BASIN TYPE 1	3			1	1											1						6
36	59	5347	EACH	CATCH BASIN TYPE 2 1200 MM DIAM.	19	1		4	2			1	1							1						17
37	1		EACH	CATCH BASIN TYPE 2 1200 MM DIAM. OVERFLOW STRUCTURE				1																		
38	1	5348	EACH	CATCH BASIN TYPE 2 1350 MM DIAM.																						1
39	13		EACH	CATCH BASIN TYPE 2 1500 MM DIAM.	4			4												1						2
40	2		EACH	CATCH BASIN TYPE 2 1800 MM DIAM. W/FLOW RESTRICTOR				1																		1
41	1		EACH	CATCH BASIN TYPE 2 1800 MM DIAM. (MODIFIED)	1																					
42	2		EACH	CATCH BASIN TYPE 2 1800 MM DIAM. W/FLOW SPLITTER					1																	1
43	3,984	5352	M	TESTING STORM SEWER PIPE	1,293	182		788	274			23	5							88						779
44	151	5364	M	PLAIN CONC. STORM SEWER PIPE 300 MM DIAM.	115																					15
45	639	5366	M	PLAIN CONC. STORM SEWER PIPE 450 MM DIAM.	45	182																				279
46	39	5385	M	CL. II REINF. CONC. STORM SEWER PIPE 1800 MM DIAM.																						39
47	1,344	5520	M	CL. IV REINF. CONC. STORM SEWER PIPE 300 MM DIAM.	385	2		388	36			23	5							88						350
48	999	5522	M	CL. IV REINF. CONC. STORM SEWER PIPE 450 MM DIAM.	238			234	223																	65
49	601	5524	M	CL. IV REINF. CONC. STORM SEWER PIPE 600 MM DIAM.	472				15																	15
50	132	5525	M	CL. IV REINF. CONC. STORM SEWER PIPE 750 MM DIAM.				28																		92
51	298	5526	M	CL. IV REINF. CONC. STORM SEWER PIPE 900 MM DIAM.	108			190																		
52	15	5560	M	TR. 5 ST. STORM SEWER PIPE 1.6 MM TH. 300 MM DIAM.	15																					
53	6	5564	M	TR. 5 ST. STORM SEWER PIPE 1.6 MM TH. 750 MM DIAM.																						6
54	123		M	FURNISH AND INSTALL STEEL CASING 750 MM DIAM.																						19
55	86		M	DUCTILE IRON STORM SEWER PIPE CLASS 50 450 MM DIAM.																						
56	LUMP SUM		L.S.	NW-3 VAULT														L. S.								
57	LUMP SUM		L.S.	NW-6 TANK															L. S.							
58	LUMP SUM		L.S.	NW-13 TANK																						
59	LUMP SUM		L.S.	NW-12 VAULT																						
60	LUMP SUM		L.S.	NW-15 VAULT																						

NOTE: FOR SPECIAL FEATURES SEE SPECIAL PROVISIONS

FOR "AS CONSTRUCTED PLANS" ONLY

	DATE		REVISION	BY
DESIGNED BY				
ENTERED BY		1/8/97	REVISED ITEMS 31,36,39,43,44,	
CHECKED BY			45,47,48,49,51,52,53,54	PB
PROJ.ENGR.		12/20/96	TITLE OF ITEM 3 REVISED.	
DIST.ADM.			ITEMS 8,9,10,16,21 DELETED	PB

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405

BOTHELL TO SWAMP CREEK I/C

HOV LANES - STAGE 1

SUMMARY OF QUANTITIES

S01

SHEET 5 OF 663 SHEETS

SUMMARY OF QUANTITIES

96W035/20

| ITEM NO. | TOTAL QUANTITY | STD. ITEM NO. | UNIT | ITEM | STATE II FUNDS | | |

SUMMARY OF QUANTITIES

96W035/18

ITEM NO.	TOTAL QUANTITY	STD. ITEM NO.	UNIT	ITEM	STATE II FUNDS SR 405 GROUP 1 NB & SB L 37+475 TO 40+120.81 CS 175201	LR 40+120.81 TO 40+283.061 CS 175201	LL 40+120.81 TO 40+286.28 CS 175201	NBCD 8+568.562 TO 9+841.919 CS 175201	W-N RAMP 8+102.626 TO 8+644.223 CS 175201	S-W RAMP 8+271.82 TO 8+589.438 CS 175201	N-195TH 9+236.078 TO 9+409.698 CS 175201	195TH-N 9+408.508 TO 9+651.241 CS 175201	S-195TH 9+392.469 TO 9+799.598 CS 175201	195TH-S 9+155.242 TO 9+425.036 CS 175201	STRUCTURAL EARTH WALL W1 CS 175201	TEMPORARY GEOTEXTILE WALL W1B CS 175201	STRUCTURAL EARTH WALL W2 CS 175201	NW-3 VAULT/ POND CS 175201	NW-6 TANK CS 175201	CITY OF BOTHELL STATE FUNDS SR 405 GROUP 2 BOTHELL AGREEMENT WORK GCA-0570 CS 175201	STATE II FUNDS SR 405 GROUP 3 SAFETY CS 175201	GROUP 4 LANDSCAPE AND WETLAND MITIGATION CS 175201	GROUP 5 BRIDGE 405/72E CS 175201	BRIDGE 405/72W CS 175201	BRIDGE 405/72 NBCD CS 175201	GROUP 6 LR 40+283.061 TO 41+915.88 CS 311101
				STRUCTURE																						
61	1,079	8331	M3	STRUCTURE EXCAVATION CLASS A INCL. HAUL																						
62	LUMP SUM	4013	L.S.	SHORING OR EXTRA EXCAVATION CL. A BR. NO. 405/103E																						
63	LUMP SUM	4013	L.S.	SHORING OR EXTRA EXCAVATION CL. A BR. NO. 405/103W																						
64	LUMP SUM	4013	L.S.	SHORING OR EXTRA EXCAVATION CL. A NW-6 TANK															L. S.							
65	LUMP SUM	4013	L.S.	SHORING OR EXTRA EXCAVATION CL. A NW-13 TANK																						
66	LUMP SUM	4013	L.S.	SHORING OR EXTRA EXCAVATION CL. A NW-12 VAULT																						
67	LUMP SUM	4013	L.S.	SHORING OR EXTRA EXCAVATION CL. A NW-15 VAULT																						
68	531	8340	M3	GRAVEL BACKFILL FOR WALL	44			112			95	51														129
69	5	4060	EACH	FURNISHING AND DRIVING CONCRETE TEST PILE																				2	1	2	
70	748	8363	M	FURNISHING CONC. PILING 355 MM DIAMETER																				200	500	48	
71	865	8363	M	FURNISHING CONC. PILING 460 MM DIAMETER																						865	
72	46	4080	EACH	DRIVING CONC. PILE 355 MM DIAMETER																				12	31	3	
73	58	4080	EACH	DRIVING CONC. PILE 460 MM DIAMETER																						58	
74	30,325	8420	KG	ST. REINF. BAR FOR BRIDGE																							
75	320	8452	M3	CONC. CLASS 28 FOR BRIDGE																							
76	139	8466	M3	CONC. CLASS 28W FOR SEAL																							
77	CALC. -5	4219	DOLLAR	DEFICIENT STRENGTH CONC. PRICE ADJUSTMENT																				CAL-1	CAL-1	CAL-1	
78	CALC. -5	4231	DOLLAR	SLUMP AND AIR PRICE ADJUSTMENT																				CAL-1	CAL-1	CAL-1	
79	LUMP SUM	4300	L.S.	SUPERSTRUCTURE - BR. NO. 405/72E WIDENING																				L. S.			
80	LUMP SUM	4300	L.S.	SUPERSTRUCTURE - BR. NO. 405/72W WIDENING																					L. S.		
81	LUMP SUM	4300	L.S.	SUPERSTRUCTURE - NBCD RAMP																						L. S.	
82	LUMP SUM	4300	L.S.	SUPERSTRUCTURE - BR. NO. 405/103E WIDENING																							
83	LUMP SUM	4300	L.S.	SUPERSTRUCTURE - BR. NO. 405/103W WIDENING																							
84	631	8598	M	CONDUIT PIPE 53 MM DIAM. - SUPERSTR.																				140		151	
85	392	8615	M	TRAFFIC BARRIER																				40	70	112	
86	EST. 40.000	4445	DOLLAR	BRIDGE DECK REPAIR																				EST. 10.000	EST. 10.000		
87	5,168	8643	M2	MEMBRANE WATERPROOFING (DECK SEAL)																				984	960		
88	1,386		M2	STRUCTURAL EARTH WALL											1,330		56										
89	4,760		M3	BACKFILL FOR STRUCTURAL EARTH WALL INCL. HAUL											4,530		230										
90	2,362		M2	NOISE WALL																							
91	3		EACH	ACCESS DOOR																							
92	EST. 50.000	7715	DOLLAR	FORCE ACCOUNT REMOVING SOLID ROCK FROM FOUNDATION EX.																							
				SURFACING																							
93	53,272	8673	T	CRUSHED SURFACING BASE COURSE	19,163	786	920	6,739	1,417	118	446	1,207	1,975	1,528							34					6,513
				LIQUID ASPHALT																							
94	88.2	8722	T	ASPHALT FOR TACK COAT	30.6	1.2	1.3	6.8	1	.4	.4	.9	1.6	1.2												12.8
95	EST. 93,386	5334	DOLLAR	ANTI-STRIPPING ADDITIVE	EST. 36,286	EST. 1,385	EST. 1,462	EST. 10,553	EST. 1,650	EST. 237	EST. 511	EST. 1,412	EST. 2,020	EST. 1,679												EST. 11,614
				ASPHALT CONCRETE PAVEMENT																							
96	EST. 25,800	5703	DOLLAR	CRACK SEALING	EST. 10,050	EST. 750	EST. 750			EST. 250																EST. 3,660
97	3,654	8840	M2	PLANING BITUMINOUS PAVEMENT	3,020				80	70																
98	1,644		M2	PLANING BITUMINOUS PAVEMENT FROM BRIDGE DECK																				829	605		
99	4,695	8860	T	ASPHALT CONC. FOR PRELEVELING CL. C	1,567	61	62			33																845
100	88,124	8870	T	ASPHALT CONC. PAVEMENT CL. A	34,719	1,324	1,400	10,553	1,650	204	511	1,413	2,020	1,679							32					10,769
101	CALC. 86,990	5830	DOLLAR	JOB MIX COMPLIANCE PRICE ADJUSTMENT	CAL33,793	CAL1,290	CAL1,362	CAL9,814	CAL1,535	CAL221	CAL475	CAL1,314	CAL1,879	CAL1,561												CAL10,826
102	CALC. 37,378	5835	DOLLAR	COMPACTION PRICE ADJUSTMENT	CAL14,520	CAL554	CAL585	CAL4,217	CAL659	CAL95	CAL204	CAL565	CAL807	CAL671												CAL4,652
				EROSION CONTROL AND PLANTING																							
103	393	9080	M3	TOPSOIL TYPE B														336								
104	4.5T	9094	HA	SEEDING, FERTILIZING, AND MULCHING	.88	.17	.12	.06	.19		.08	.08	.35	.25				.12		.06		.2				.48
105	.4		HA	SEEDING, FERTILIZING AND MULCHING - MITIGATION																		.4				
106	.1		HA	SEEDING, FERTILIZING, AND MULCHING - MEDIAN																		.1				
107	13,690	9140	M2	EROSION CONTROL BLANKET	1,100				1,900		600		1,160	1,700				1,200								3,900
108	4,650	9142	M2	CLEAR PLASTIC COVERING	2,950	1,700																				
109	EST. 300,000	6489	DOLLAR	TEMPORARY WATER POLLUTION/EROSION CONTROL	EST. 65,452	EST. 2,926	EST. 2,107	EST. 17,704	EST. 3,612	EST. 424	EST. 936	EST. 3,935	EST. 2,564	EST. 3,493	EST. 9,328	EST. 6,521	EST. 532	EST. 4,231	EST. 5,347			EST. 2,429	EST. 6,522	EST. 8,311	EST. 15,625	EST. 29,685
110	20		EACH	ROCK CHECK DAM																							16
111	624		EACH	STRAW BALE	178	8	48	22	23			19	80	16								18					124
112	53		EACH	GRAVEL FILTER BERM	29	3		1																			3
113	211		EACH	INLET PROTECTION	73	6	1	33	6			2	2							2		1					39
114	410		M	EROSION CONTROL SLOT DRAIN				410																			
115	4,249		M	PLASTIC BARRIER FENCE	770	50		640	527	190	49	114	248	255													339
116	2,112		M2	STABILIZED CONSTRUCTION ENTRANCE	360		360	540														312					360
117	500		M3	MUD PALLIATIVE	120		120	60														20					120
118	2.68		HA	STRAW MULCH	.48		.12	.06			.02	.08	.23	.08								.2					.09
119	1,000		HOUR	STREET CLEANING INCL. BACKUP VEHICLE	300	50	50	60	20	20	20	20	20	20													150
120	236	9160	M3	SOIL AMENDMENT																		236					

NOTE: FOR SPECIAL FEATURES SEE SPECIAL PROVISIONS

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY				
ENTERED BY				
CHECKED BY				
PROJ.ENGR.				
DIST.ADM.		12/20/96	TITLE OF ITEM 119 REVISED	PB
	DATE	DATE	REVISION	BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
SUMMARY OF QUANTITIES

S03

SHEET 7 OF 663 SHEETS

SUMMARY OF QUANTITIES

96W035/18

| ITEM NO. | TOTAL QUANTITY | STD. ITEM NO. | UNIT | ITEM | STATE 11 FUNDS | | |

SUMMARY OF QUANTITIES

96W035/16

ITEM NO.	TOTAL QUANTITY	STD. ITEM NO.	UNIT	ITEM
121	110	6552	EACH	PSIPE SLOUGH SEDGE 80 MM ROOT 1 GROWTH POINT
122	110	6552	EACH	PSIPE HARDSTEM BULRUSH, 50 MM RHIZOME, MIN. 1 GROWTH PT.
123	110	6552	EACH	PSIPE SMALL FRUITED BULRUSH, 80 MM ROOT, 1 GROWTH PT.
124	110	6552	EACH	PSIPE SPIKERUSH, 80 MM ROOT, 1 GROWTH POINT
125	75	6552	EACH	PSIPE RED-OSIER DOGWOOD, BR, 500 MM HT., 2 CANES
126	75	6552	EACH	PSIPE PACIFIC NINEBARK, BR, 500 MM HT.
127	270	6552	EACH	PSIPE THIMBLEBERRY, BR, 500 MM HT.
128	75	6552	EACH	PSIPE SALMONBERRY, BR, 500 MM HT.
129	270	6552	EACH	PSIPE ELDERBERRY, BR, 500 MM HT.
130	55	6552	EACH	PSIPE PACIFIC WILLOW, 500 MM-600 MM LENGTH, LIVE STAKE
131	75	6552	EACH	PSIPE SITKA WILLOW, 500 MM-600 MM LENGTH, LIVE STAKE
132	270	6552	EACH	PSIPE VINE MAPLE, BR, 600 MM HT.
133	10	6552	EACH	PSIPE BLACK COTTONWOOD, BR, 500 MM HT.
134	45	6552	EACH	PSIPE DOUGLAS FIR, NO. 1 CONTAINER, 400 MM HT.
135	15	6552	EACH	PSIPE WESTERN RED CEDAR, NO. 1 CONTAINER, 400 MM HT.
136	15	6552	EACH	PSIPE WESTERN RED CEDAR, NO. 2 CONTAINER, 900 MM HT.
137	45	6552	EACH	PSIPE WESTERN HEMLOCK, NO. 1 CONTAINER, 400 MM HT.
138	270		M	BRUSHLAYER
139	77	9187	KG	FERTILIZER - GRANULAR
140	29	9188	M3	BARK OR WOOD CHIP MULCH
141	EST. 5,000	6606	DOLLAR	PLANT ESTABLISHMENT - SECOND YEAR
142	EST. 5,000	6608	DOLLAR	PLANT ESTABLISHMENT - THIRD YEAR
143	EST. 4,000		DOLLAR	PLANT ESTABLISHMENT - FOURTH YEAR
144	EST. 4,000		DOLLAR	PLANT ESTABLISHMENT - FIFTH YEAR
145	3		EACH	BRUSHPILE
146	1		EACH	LOG WITH ROOTWAD
147	1		EACH	STUMP WITH ROOTWAD
				SURVEILLANCE CONTROL AND DRIVER INFORMATION
148	LUMP SUM		L.S.	CLOSED CIRCUIT TELEVISION SYSTEM
149	LUMP SUM		L.S.	TRAFFIC DATA ACCUMULATION AND RAMP METERING SYSTEM
150	LUMP SUM		L.S.	VARIABLE MESSAGE SIGN
151	LUMP SUM		L.S.	HIGHWAY ADVISORY RADIO SYSTEM
152	LUMP SUM		L.S.	COMMUNICATION SYSTEM
153	LUMP SUM		L.S.	COMMUNICATION CABLE AND INTERFACES
154	LUMP SUM		L.S.	VOICE AND DATA DISTRIBUTION AND TRANSMISSION SYSTEM
155	LUMP SUM		L.S.	VIDEO DISTRIBUTION AND TRANSMISSION SYSTEM
156	LUMP SUM		L.S.	WEATHER STATION
157	30		M	BORING AND CASING 300 MM DIAM.
158	160		M	BORING AND CASING 600 MM DIAM.
159	40		M	TRENCHING AND CASING 300 MM DIAM.
160	39		M	TRENCHING AND CASING 600 MM DIAM.
				TRAFFIC
161	220	9215	M	CEMENT CONC. BARRIER CURB AND GUTTER
162	402	9229	M	EXTRUDED CURB
163	763	9250	M	BEAM GUARDRAIL TYPE 1 - 2.4 M LONG POST
164	2,168	9260	M	BEAM GUARDRAIL TYPE 3
165	549		M	BEAM GUARDRAIL TYPE 3 - 2.4 M LONG POST
166	11	9275	EACH	BEAM GUARDRAIL TRANSITION SECTION TYPE 1
167	1	9275	EACH	BEAM GUARDRAIL TRANSITION SECTION TYPE 4
168	18	9291	EACH	BEAM GUARDRAIL SRT TERMINAL
169	12	6774	EACH	BEAM GUARDRAIL ANCHOR TYPE 4
170	2	6765	EACH	BEAM GUARDRAIL ANCHOR TYPE 7
171	1,025	9297	M	RAISING EXISTING BEAM GUARDRAIL
172	23	9300	M	PRECAST CONC. BARRIER TYPE 2
173	3,051	9302	M	SINGLE SLOPE CONCRETE BARRIER
174	80		M	SINGLE FACE CONC. BARRIER
175	87		M	CONC. BARRIER TRANSITION SECTION
176	170		M	ELEVATED SECTION CONC. BARRIER
177	102		M	TRANSITIONAL SECTION CONC. BARRIER
178	1,070		M	SHOULDER BARRIER
179	725		M	CONCRETE BARRIER WITH SLAB
180	476		M2	CEMENT CONCRETE MEDIAN CAP
181	13	6779	EACH	CAST-IN-PLACE CONC. BARRIER LIGHT STANDARD SECTION
182	22,740		M	BARRIER PROTECTED WORK AREA
183	2	7442	EACH	PERMANENT IMPACT ATTENUATOR
184	EST. 30,000	7444	DOLLAR	REPAIR IMPACT ATTENUATOR
185	2	7447	EACH	TRUCK MOUNTED IMPACT ATTENUATOR
186	1,044	7449	HOUR	OPERATION OF TRUCK MOUNTED IMPACT ATTENUATOR

NOTE: FOR SPECIAL FEATURES SEE SPECIAL PROVISIONS

STATE 11 FUNDS															CITY OF BOTHELL STATE FUNDS	STATE 11 FUNDS					
SR 405															SR 405	SR 405					
GROUP 1															GROUP 2	GROUP 3	GROUP 4	GROUP 5			GROUP 6
NB & SB L 37+475 TO 40+120.81	LR 40+120.81 TO 40+283.061	LL 40+120.81 TO 40+286.28	NBCD 8+568.562 TO 9+841.919	W-N RAMP 8+102.626 TO 8+644.223	S-W RAMP 8+271.82 TO 8+589.438	N-195TH 9+236.078 TO 9+409.698	195TH-N 9+408.508 TO 9+651.241	S-195TH 9+392.469 TO 9+799.598	195TH-S 9+155.242 TO 9+425.036	STRUCTURAL EARTH WALL W1	TEMPORARY GEOTEXTILE WALL W1B	STRUCTURAL EARTH WALL W2	NW-3 VAULT/ POND	NW-6 TANK	BOTHELL AGREEMENT WORK GCA-0570	SAFETY	LANDSCAPE AND WETLAND MITIGATION	BRIDGE 405/72E	BRIDGE 405/72W	BRIDGE 405/72 NBCD	LR 40+283.061 TO 41+915.88
CS 175201	CS 175201	CS 175201	CS 175201	CS 175201	CS 175201	CS 175201	CS 175201	CS 175201	CS 175201	CS 175201	CS 175201	CS 175201	CS 175201	CS 175201	CS 175201	CS 175201	CS 175201	CS 175201	CS 175201	CS 175201	CS 311101
																	110				
																	110				
																	110				
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																	15				
																	15				
																	45				
																	270				
																	77				
																	29				
																	EST. 5,000				
																	EST. 5,000				
																	EST. 4,000				
																	EST. 4,000				
																	3				
																	1				
																	1				
																					L. S.
							L. S.														L. S.
L. S.							L. S.		L. S.												L. S.
L. S.																					
L. S.																					L. S.
L. S.							L. S.		L. S.												L. S.
L. S.																					
L. S.																					
15									15												50
60																					
10							15		15												12
15																					
									45						175						
159	154						73														
															28		266				
															62		1,175				
																	6				
																	1				
															2		9				
															2		4				
																	2				
																	23				
																	2,910				
																	80				
																	77				
																	170				
																	80				
																	400				
																	725				
																	240				
																	13				
																	15,855				
																	1				
																	1				
																	812				

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY				
ENTERED BY				
CHECKED BY				
PROJ.ENGR.				
DIST.ADM.				
	DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER	96W035	
CONTRACT NO.	5054	

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
SUMMARY OF QUANTITIES

S05

SHEET 9 OF 663 SHEETS

SUMMARY OF QUANTITIES

96W035/16

ITEM NO.	TOTAL QUANTITY	STD. ITEM NO.	UNIT	ITEM	STATE 11 FUNDS / SR 405 / GROUP 6 LL 40+286.28 TO 41+867.002 CS 311101	GROUP 6 NB & SB L 41+915.88 TO 42+867 CS 311101	GROUP 6 AR 4 2+570.772 TO 2+970.173 CS 311101	GROUP 6 NOISE WALL NW1 CS 311101	GROUP 6 NOISE WALL NW2 CS 311101	GROUP 6 NW-13 TANK CS 311101	GROUP 6 NW-12 VAULT CS 311101	GROUP 6 NW-15 VAULT CS 311101	GROUP 7 SAFETY CS 311101	GROUP 8 BRIDGE 405/103E CS 311101	GROUP 8 BRIDGE 405/103W CS 311101	GROUP 9 THIRD PARTY DAMAGE CS 311101
121		6552	EACH	PSIPE SLOUGH SEDGE 80 MM ROOT 1 GROWTH POINT												
122		6552	EACH	PSIPE HARDSTEM BULRUSH, 50 MM RHIZOME, MIN. 1 GROWTH PT.												
123		6552	EACH	PSIPE SMALL FRUITED BULRUSH, 80 MM ROOT, 1 GROWTH PT.												
124		6552	EACH	PSIPE SPIKERUSH, 80 MM ROOT, 1 GROWTH POINT												
125		6552	EACH	PSIPE RED-OSIER DOGWOOD, BR, 500 MM HT., 2 CANES												
126		6552	EACH	PSIPE PACIFIC NINEBARK, BR, 500 MM HT.												
127		6552	EACH	PSIPE THIMBLEBERRY, BR, 500 MM HT.												
128		6552	EACH	PSIPE SALMONBERRY, BR, 500 MM HT.												
129		6552	EACH	PSIPE ELDERBERRY, BR, 500 MM HT.												
130		6552	EACH	PSIPE PACIFIC WILLOW, 500 MM-600 MM LENGTH, LIVE STAKE												
131		6552	EACH	PSIPE SITKA WILLOW, 500 MM-600 MM LENGTH, LIVE STAKE												
132		6552	EACH	PSIPE VINE MAPLE, BR, 600 MM HT.												
133		6552	EACH	PSIPE BLACK COTTONWOOD, BR, 500 MM HT.												
134		6552	EACH	PSIPE DOUGLAS FIR, NO. 1 CONTAINER, 400 MM HT.												
135		6552	EACH	PSIPE WESTERN RED CEDAR, NO. 1 CONTAINER, 400 MM HT.												
136		6552	EACH	PSIPE WESTERN RED CEDAR, NO. 2 CONTAINER, 300 MM HT.												
137		6552	EACH	PSIPE WESTERN HEMLOCK, NO. 1 CONTAINER, 400 MM HT.												
138			M	BRUSHLAYER												
139		9187	KG	FERTILIZER - GRANULAR												
140		9188	M3	BARK OR WOOD CHIP MULCH												
141		6606	DOLLAR	PLANT ESTABLISHMENT - SECOND YEAR												
142		6608	DOLLAR	PLANT ESTABLISHMENT - THIRD YEAR												
143			DOLLAR	PLANT ESTABLISHMENT - FOURTH YEAR												
144			DOLLAR	PLANT ESTABLISHMENT - FIFTH YEAR												
145			EACH	BRUSHPILE												
146			EACH	LOG WITH ROOTWAD												
147			EACH	STUMP WITH ROOTWAD												
				SURVEILLANCE CONTROL AND DRIVER INFORMATION												
148			L.S.	CLOSED CIRCUIT TELEVISION SYSTEM	L. S.	L. S.										
149			L.S.	TRAFFIC DATA ACCUMULATION AND RAMP METERING SYSTEM	L. S.	L. S.										
150			L.S.	VARIABLE MESSAGE SIGN	L. S.											
151			L.S.	HIGHWAY ADVISORY RADIO SYSTEM	L. S.											
152			L.S.	COMMUNICATION SYSTEM		L. S.										
153			L.S.	COMMUNICATION CABLE AND INTERFACES	L. S.	L. S.										
154			L.S.	VOICE AND DATA DISTRIBUTION AND TRANSMISSION SYSTEM												
155			L.S.	VIDEO DISTRIBUTION AND TRANSMISSION SYSTEM												
156			L.S.	WEATHER STATION												
157			M	BORING AND CASING 300 MM DIAM.												
158			M	BORING AND CASING 600 MM DIAM.	50											
159			M	TRENCHING AND CASING 300 MM DIAM.												
160			M	TRENCHING AND CASING 600 MM DIAM.	12											
				TRAFFIC												
161		9215	M	CEMENT CONC. BARRIER CURB AND GUTTER												
162		9229	M	EXTRUDED CURB		16										
163		9250	M	BEAM GUARDRAIL TYPE 1 - 2.4 M LONG POST									469			
164		9260	M	BEAM GUARDRAIL TYPE 1									931			
165			M	BEAM GUARDRAIL TYPE 3 - 2.4 M LONG POST									549			
166		9275	EACH	BEAM GUARDRAIL TRANSITION SECTION TYPE 1									5			
167		9275	EACH	BEAM GUARDRAIL TRANSITION SECTION TYPE 4												
168		9291	EACH	BEAM GUARDRAIL SRT TERMINAL									7			
169		6774	EACH	BEAM GUARDRAIL ANCHOR TYPE 4									6			
170		6765	EACH	BEAM GUARDRAIL ANCHOR TYPE 7												
171		9297	M	RAISING EXISTING BEAM GUARDRAIL									1,025			
172		9300	M	PRECAST CONC. BARRIER TYPE 2												
173		9302	M	SINGLE SLOPE CONCRETE BARRIER									141			
174			M	SINGLE FACE CONC. BARRIER												
175			M	CONC. BARRIER TRANSITION SECTION									10			
176			M	ELEVATED SECTION CONC. BARRIER												
177			M	TRANSITIONAL SECTION CONC. BARRIER									22			
178			M	SHOULDER BARRIER									670			
179			M	CONCRETE BARRIER WITH SLAB												
180			M2	CEMENT CONCRETE MEDIAN CAP									236			
181		6779	EACH	CAST-IN-PLACE CONC. BARRIER LIGHT STANDARD SECTION												
182			M	BARRIER PROTECTED WORK AREA									6,885			
183		7442	EACH	PERMANENT IMPACT ATTENUATOR									1			
184		7444	DOLLAR	REPAIR IMPACT ATTENUATOR											EST. 30,000	
185		7447	EACH	TRUCK MOUNTED IMPACT ATTENUATOR												
186		7449	HOUR	OPERATION OF TRUCK MOUNTED IMPACT ATTENUATOR									1			
													232			

NOTE: FOR SPECIAL FEATURES SEE SPECIAL PROVISIONS

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY				
ENTERED BY				
CHECKED BY				
PROJ.ENGR.				
DIST.ADM.				
	DATE	DATE	REVISION	BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405

BOTHELL TO SWAMP CREEK I/C

HOV LANES - STAGE 1

SUMMARY OF QUANTITIES

S06

SHEET 10 OF 663 SHEETS

SUMMARY OF QUANTITIES

96W035/20

ITEM NO.	TOTAL QUANTITY	STD. ITEM NO.	UNIT	ITEM	STATE I1 FUNDS SR 405 GROUP 1 NB & SB L 37+475 TO 40+120.81 CS 175201	LR 40+120.81 TO 40+283.061 CS 175201	LL 40+120.81 TO 40+286.28 CS 175201	NBCD 8+568.562 TO 9+841.919 CS 175201	W-N RAMP 8+102.626 TO 8+644.223 CS 175201	S-W RAMP 8+271.82 TO 8+589.438 CS 175201	N-195TH 9+236.078 TO 9+409.698 CS 175201	195TH-N 9+408.508 TO 9+651.241 CS 175201	S-195TH 9+392.469 TO 9+799.598 CS 175201	195TH-S 9+155.242 TO 9+425.036 CS 175201	STRUCTURAL EARTH WALL W1 CS 175201	TEMPORARY GEOTEXTILE WALL W1B CS 175201	STRUCTURAL EARTH WALL W2 CS 175201	NW-3 VAULT/ POND CS 175201	NW-6 TANK CS 175201	CITY OF BOTHELL STATE FUNDS SR 405 GROUP 2 BOTHELL AGREEMENT WORK GCA-0570 CS 175201	STATE I1 FUNDS SR 405 GROUP 3 SAFETY CS 175201	GROUP 4 LANDSCAPE AND WETLAND MITIGATION CS 175201	GROUP 5 BRIDGE 405/72E CS 175201	GROUP 5 BRIDGE 405/72W CS 175201	GROUP 5 BRIDGE 405/72 NBCD CS 175201	GROUP 6 LR 40+283.061 TO 41+915.88 CS 311101
187	150	6832	EACH	FLEXIBLE GUIDE POST																	95					
188	23,965	9249	M	PAINT STRIPE																	12,840					
189	162	6819	EACH	PLASTIC DRAINAGE MARKING	57	2		33	6			1	1													37
190	11,224	9257	M	PLASTIC GORE STRIPE																114	7,345					
191	290	9279	M	PLASTIC DOTTED GORE STRIPE																	290					
192	2,030	9282	M	PLASTIC SKIP GORE STRIPE																	1,075					
193	1,700	9286	M	PLASTIC DROP LANE STRIPE																	850					
194	15	9273	M	PLASTIC STOP BAR																	15					
195	63		EACH	PLASTIC PREFERENTIAL LANE SYMBOL																2	37					
196	71.1	6882	HUND	RAISED PAVEMENT MARKER TYPE 1																	46.4					
197	26.7	6884	HUND	RAISED PAVEMENT MARKER TYPE 2																	18					
198	129,091	9310	M	TEMPORARY PAVEMENT MARKING																	87,595					
199	LUMP SUM	6890	L.S.	PERMANENT SIGNING	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.												L. S.
200	LUMP SUM	6897	L.S.	SIGN BRIDGE NO. 1	L. S.																					
201	LUMP SUM	6897	L.S.	SIGN BRIDGE NO. 2				L. S.																		L. S.
202	LUMP SUM	6897	L.S.	SIGN BRIDGE NO. 3																						
203	LUMP SUM	6897	L.S.	SIGN BRIDGE NO. 4																						
204	LUMP SUM	6897	L.S.	SIGN BRIDGE NO. 5																						
205	LUMP SUM	6897	L.S.	SIGN BRIDGE NO. 6																						
206	LUMP SUM	6897	L.S.	SIGN BRIDGE NO. 7																						
207	LUMP SUM	6897	L.S.	SIGN BRIDGE NO. 8	L. S.																					
208	LUMP SUM	6897	L.S.	SIGN BRIDGE NO. 9	L. S.																					
209	LUMP SUM	6897	L.S.	SIGN BRIDGE NO. 10	L. S.																					
210	LUMP SUM	6898	L.S.	CANTILEVER SIGN STRUCTURE NO. 1				L. S.																		
211	LUMP SUM	6898	L.S.	CANTILEVER SIGN STRUCTURE NO. 2																						
212	LUMP SUM	6899	L.S.	BRIDGE MOUNTED SIGN BRACKET NO. 1	L. S.																					
213	LUMP SUM	6899	L.S.	BRIDGE MOUNTED SIGN BRACKET NO. 2	L. S.																					
214	LUMP SUM	6899	L.S.	BRIDGE MOUNTED SIGN BRACKET NO. 3	L. S.																					
215	LUMP SUM	6904	L.S.	ILLUMINATION SYSTEM SAB 1612																						
216	LUMP SUM	6904	L.S.	ILLUMINATION SYSTEM SAB 3389																						
217	LUMP SUM	6904	L.S.	ILLUMINATION SYSTEM SUA 4419																		L. S.				
218	LUMP SUM	6904	L.S.	ILLUMINATION SYSTEM SUA 4375																		L. S.				
219	LUMP SUM	6904	L.S.	ILLUMINATION SYSTEM SUA 4386																		500				
220	800	6954	EACH	TRAFFIC SAFETY DRUM																		812				
221	1,044	6956	HOUR	SEQUENTIAL ARROW SIGN																		28				
222	28	6958	EACH	TYPE III BARRICADE																		L. S.				
223	LUMP SUM	9380	L.S.	TEMPORARY TRAFFIC CONTROL DEVICES																		346				
224	472		HOUR	PORTABLE CHANGEABLE MESSAGE SIGN																		16,322				
225	22,858	6979	HOUR	TRAFFIC CONTROL LABOR																		277				
226	386	6968	DAY	TRAFFIC CONTROL VEHICLE																		277				
227	386	6969	DAY	TRAFFIC CONTROL SUPERVISOR																		73.4				
228	125.8	9398	M2	CONSTRUCTION SIGNS CLASS A																		EST. 500				
229	EST. 1,000	7715	DOLLAR	FORCE ACCOUNT ROLLING SLOWDOWN																						
				OTHER ITEMS																						
230	14,132	9412	M3	STRUCTURE EXCAVATION CLASS B INCL. HAUL	3,605	555		2,278	902		170	15	10		2,390		150			231						2,524
231	6,607	9416	M2	SHORING OR EXTRA EXCAVATION CLASS B	2,095	488		1,043	756				5		60					140						1,019
232	168	9427	M3	GRAVEL BACKFILL FOR FOUNDATION CLASS B	57	1		39	6			1	1							2						34
233	398	9431	M3	GRAVEL BACKFILL FOR DRAIN	27			59				46														204
234	1,140	9440	M3	WATER	200	50	50	100	100	20	20	10	10	10												200
235	4.9	9445	M3	CONC. CLASS 20	1.4	.2		.5				.1														2.1
236	LUMP SUM	7036	L.S.	SURVEYING	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.	L. S.			L. S.	L. S.	L. S.	L. S.	L. S.
237		7800	EACH	DELETED ITEM			1					1	2													2
238	9	7380	EACH	ADJUST MONUMENT CASE AND COVER										110						282						
239	392	9475	M2	CEMENT CONC. SIDEWALK																L. S.						
240	LUMP SUM		L.S.	SHELTER FOOTING														212								
241	212	9502	M	CHAIN LINK FENCE TYPE 3														7								
242	7	7095	EACH	END, CORNER, AND PULL POST FOR CHAIN LINK FENCE														2								
243	2	9512	EACH	DOUBLE 6.1 M CHAIN LINK GATE																	63					
244	63		M	BARBLESS WIRE FENCE TYPE 2																32						
245	32	9562	M3	GABION CRIBBING																						
246	1	3080	EACH	ADJUST MANHOLE	1																					3
247	3	9610	EACH	MANHOLE 1200 MM DIAM. TYPE 3																						
248	2		EACH	MANHOLE 1500 MM DIAM. TYPE 3				.5																		2
249	2.5	9616	M	MANHOLE ADDITIONAL HEIGHT 1200 MM DIAM. TYPE 3																						
250	2.5		M	MANHOLE ADDITIONAL HEIGHT 1500 MM DIAM. TYPE 3																						
251	136	3100	EACH	ADJUST CATCH BASIN	59	2		33	3			1								2						17
252	13		EACH	BARREL ADJUST DRAINAGE STRUCTURE	2	1																				4
253	10	3110	EACH	LOCKING SOLID METAL COVER AND FRAME FOR CATCH BASIN				5																		5
254	LUMP SUM	7350	L.S.	CLEANING EXISTING DRAINAGE STRUCTURE	L. S.			L. S.	L. S.		L. S.	L. S.														L. S.

NOTE: FOR SPECIAL FEATURES SEE SPECIAL PROVISIONS

FOR "AS CONSTRUCTED PLANS" ONLY

				REGION NO. 10	STATE WASH
DESIGNED BY					
ENTERED BY				JOB NUMBER 96W035	
CHECKED BY					
PROJ.ENGR.		1/8/97	REVISED ITEMS 230,231,232,247,249,251	PB	
DIST.ADM.		12/20/96	ITEM 234 REVISED, ITEM 237 DELETED	PB	CONTRACT NO. 5059
	DATE	DATE	REVISION	BY	

FED.AID PROJ.NO.

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
SUMMARY OF QUANTITIES

S07

SHEET 11 OF 663 SHEETS

SUMMARY OF QUANTITIES

96W035/18

| ITEM NO. | TOTAL QUANTITY | STD. ITEM NO. | UNIT | ITEM | STATE II FUNDS | | |

SUMMARY OF QUANTITIES

96W035/20

ITEM NO.	TOTAL QUANTITY	STD. ITEM NO.	UNIT	ITEM
255	10		EACH	CONNECTION TO EXISTING DRAINAGE STRUCTURE
256	23		EACH	CONCRETE PIPE COLLAR
257	EST. 10,000		DOLLAR	HAZARDOUS WASTE CLEAN UP
258	EST. 100,000	7480	DOLLAR	ROADSIDE CLEANUP
259	EST. 20,000	9597	DOLLAR	REIMBURSEMENT FOR THIRD PARTY DAMAGE
260	2,644	9738	M	CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE
261	2,584	9735	M2	CONSTRUCTION GEOTEXTILE FOR UNDERGROUND DRAINAGE
262	59		M	ECOLOGY DITCH
263	1,311	9739	M2	GEOTEXTILE RETAINING WALL
264	17,100		T	BACKFILL FOR GEOTEXTILE WALL INCL. HAUL
265	LUMP SUM	0050	L.S.	REMOVAL OF STRUCTURE AND OBSTRUCTION
266	17		M	FURNISH AND INSTALL STEEL CASING 900 MM DIAM.

STATE II FUNDS															CITY OF BOTHELL STATE FUNDS	STATE II FUNDS					
SR 405															SR 405	SR 405					
GROUP 1															GROUP 2	GROUP 3	GROUP 4	GROUP 5			GROUP 6
NB & SB L 37+475 TO 40+120.81 CS 175201	LR 40+120.81 TO 40+283.061 CS 175201	LL 40+120.81 TO 40+286.28 CS 175201	NBCD 8+568.562 TO 9+841.919 CS 175201	W-N RAMP 8+102.626 TO 8+644.223 CS 175201	S-W RAMP 8+271.82 TO 8+589.438 CS 175201	N-195TH 9+236.078 TO 9+409.698 CS 175201	195TH-N 9+408.508 TO 9+651.241 CS 175201	S-195TH 9+392.469 TO 9+799.598 CS 175201	195TH-S 9+155.242 TO 9+425.036 CS 175201	STRUCTURAL EARTH WALL W1 CS 175201	TEMPORARY GEOTEXTILE WALL W1B CS 175201	STRUCTURAL EARTH WALL W2 CS 175201	NW-3 VAULT/ POND CS 175201	NW-6 TANK CS 175201	BOTHELL AGREEMENT WORK GCA-0570 CS 175201	SAFETY CS 175201	LANDSCAPE AND WETLAND MITIGATION CS 175201	BRIDGE 405/72E CS 175201	BRIDGE 405/72W CS 175201	BRIDGE 405/72 NBCD CS 175201	LR 40+283.061 TO 41+915.88 CS 311101
	1																				5
7	1		4					1													6
EST. 5,000																					
EST. 30,000	EST. 5,000	EST. 5,000	EST. 6,000	EST. 2,000	EST. 2,000	EST. 2,000	EST. 2,000	EST. 2,000	EST. 2,000												EST. 15,000
600			600	400	100	100	100	200	250								44				100
1T4			384				297														1,315
																					59
											1,311										
											17,100										
							L. S.	L. S.	L. S.							L. S.					
17																					

NOTE: FOR SPECIAL FEATURES SEE SPECIAL PROVISIONS

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY				REGION NO.	STATE
ENTERED BY				10	WASH
CHECKED BY				JOB NUMBER	
PROJ.ENGR.		1/8/97	ADDED ITEM 266	PB	96W035
DIST.ADM.		12/20/96	ITEM 265 ADDED	PB	CONTRACT NO. 5054
	DATE	DATE	REVISION	BY	

FED.AID PROJ.NO.

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405

BOTHELL TO SWAMP CREEK I/C

HOV LANES - STAGE 1

SUMMARY OF QUANTITIES

S09

SHEET 13 OF 663 SHEETS

SUMMARY OF QUANTITIES

96W035/20

ITEM NO.	TOTAL QUANTITY	STD. ITEM NO.	UNIT	ITEM	STATE II FUNDS / SR 405 / GROUP 6 LL 40+286.28 TO 41+867.002 CS 311101	GROUP 6 NB & SB L 41+915.88 TO 42+867 CS 311101	GROUP 6 AR 4 2+570.772 TO 2+970.173 CS 311101	GROUP 6 NOISE WALL NW1 CS 311101	GROUP 6 NOISE WALL NW2 CS 311101	GROUP 6 NW-13 TANK CS 311101	GROUP 6 NW-12 VAULT CS 311101	GROUP 6 NW-15 VAULT CS 311101	GROUP 7 SAFETY CS 311101	GROUP 8 BRIDGE 405/103E CS 311101	GROUP 8 BRIDGE 405/103W CS 311101	GROUP 9 THIRD PARTY DAMAGE CS 311101
255			EACH	CONNECTION TO EXISTING DRAINAGE STRUCTURE	1	3										
256			EACH	CONCRETE PIPE COLLAR	3	1										
257			DOLLAR	HAZARDOUS WASTE CLEAN UP		EST. 5.000										
258		7480	DOLLAR	ROADSIDE CLEANUP	EST. 15.000	EST. 10.000	EST. 2.000									
259		9597	DOLLAR	REIMBURSEMENT FOR THIRD PARTY DAMAGE												EST. 20.000
260		9738	M	CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE		150										
261		9735	M2	CONSTRUCTION GEOTEXTILE FOR UNDERGROUND DRAINAGE		414										
262			M	ECOLOGY DITCH												
263		9739	M2	GEOTEXTILE RETAINING WALL												
264			T	BACKFILL FOR GEOTEXTILE WALL INCL. HAUL												
265		0050	L.S.	REMOVAL OF STRUCTURE AND OBSTRUCTION									L. S.			
266			M	FURNISH AND INSTALL STEEL CASING 900 MM DIAM.												

NOTE: FOR SPECIAL FEATURES SEE SPECIAL PROVISIONS

FOR "AS CONSTRUCTED PLANS" ONLY

	DATE		REVISION	BY
		1/8/97	ADDED ITEM 266	PB
		12/20/96	ITEM 265 ADDED	PB

DESIGNED BY
ENTERED BY
CHECKED BY
PROJ.ENGR.
DIST.ADM.

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

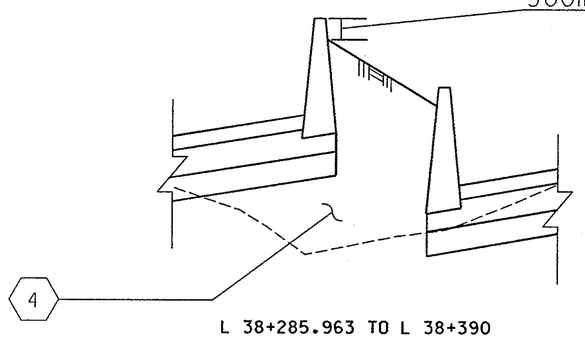
SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
SUMMARY OF QUANTITIES

S010

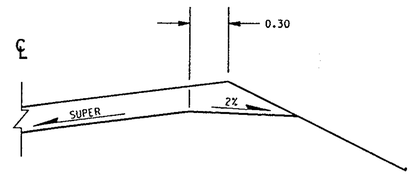
SHEET 14 OF 663 SHEETS

PLOT: \412347\A\44F1U-1.PLT
PLOTI 09 NOV 96 s:\412347\12095\overlaxs.dgn $(username)
Sat Nov 09 11:39:49 1996 D412347 T:\

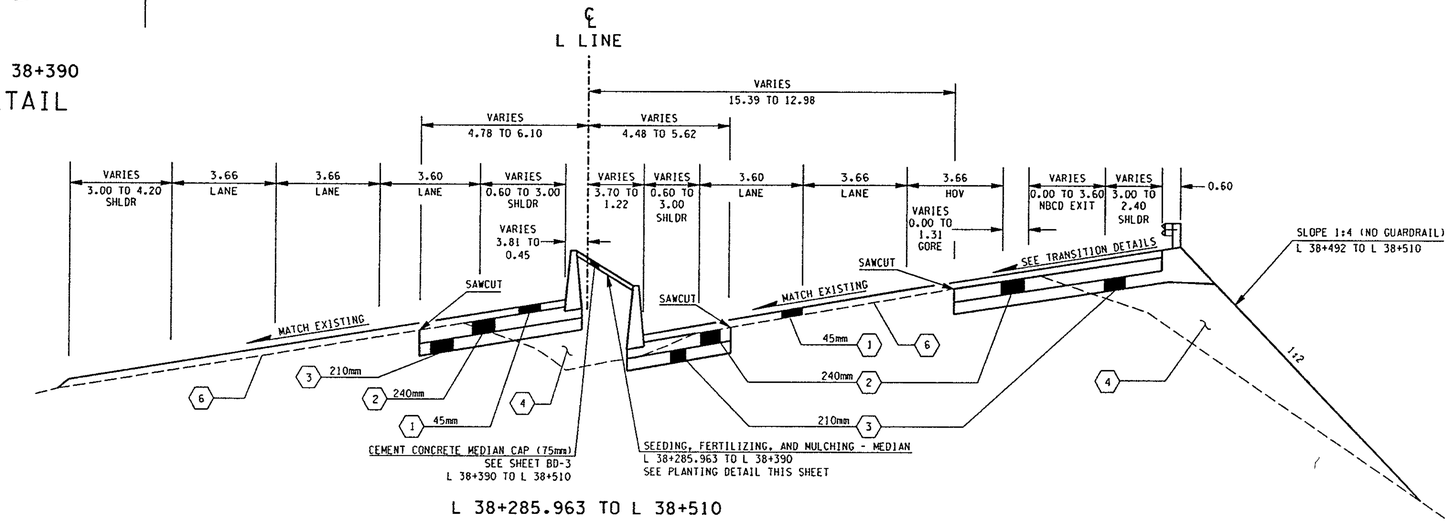
300mm TYPICAL BOTH BARRIERS



L 38+285.963 TO L 38+390
PLANTING DETAIL



TYPICAL BROKEN BACK DETAIL



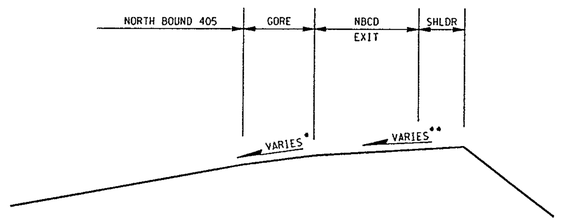
L 38+285.963 TO L 38+510
ROADWAY SECTION A

LEGEND

1. ASPHALT CONC. PAVEMENT CL. A (WEARING COURSE)
2. ASPHALT CONC. PAVEMENT CL. A (LEVELING COURSE)
3. CRUSHED SURFACING BASE COURSE
4. ROADWAY EXCAVATION MATERIAL OR SPECIAL GRAVEL BORROW
5. SPECIAL GRAVEL BORROW
6. ASPHALT CONC. FOR PRELEVELING CL. G, INCLUDING SHOULDERS:
   - 200 TONNE PER LANE KILOMETER
     L 38+285.963 TO L 39+000
   - 170 TONNE PER LANE KILOMETER
     REMAINDER OF SR 405 AND AR4 RAMP
   - 140 TONNE PER LANE KILOMETER
     S-W RAMP

ALL DEPTHS SHOWN ARE COMPACTED DEPTHS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.



L 38+490 TO L 38+568.562
SUPER ELEVATION TRANSITION DETAIL

* GORE 8% TO 4%
** NBCD EXIT / SHLDR 8% TO 2%

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY D. MOON	10/16/96				
ENTERED BY B. SAVILLE	10/16/96				
CHECKED BY N. ABEDIN	10/16/96				
PROJ. ENGR. R.KINOSHITA	10/16/96				
REGIONAL ADM. J. OKAMOTO	10/16/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

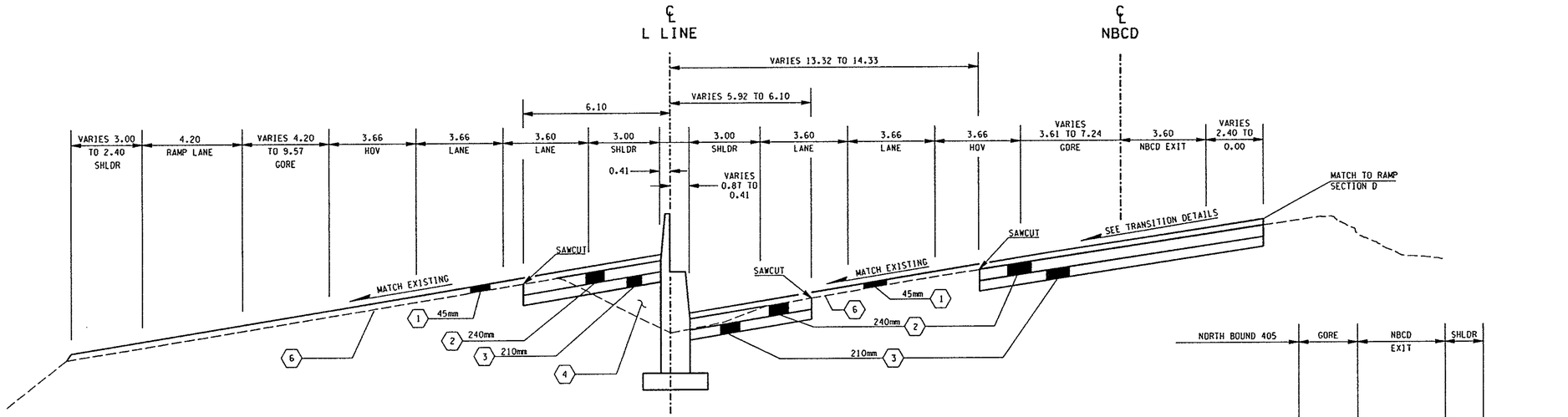
SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ROADWAY SECTIONS

RS-1

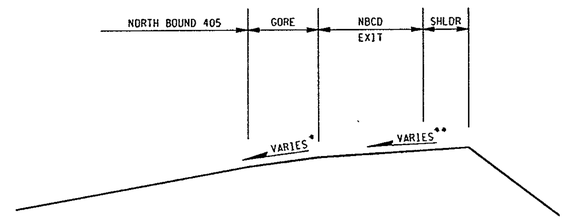
SHEET 15 OF 663 SHEETS

Sat Nov 09 11:40:04 1996 D412347 T:\412347\A\44F1U-2.PLT
09 NOV 96 s:\412347\12095\overlaxs.dgn $(username)
PLOT2



L 38+545 TO L 38+600

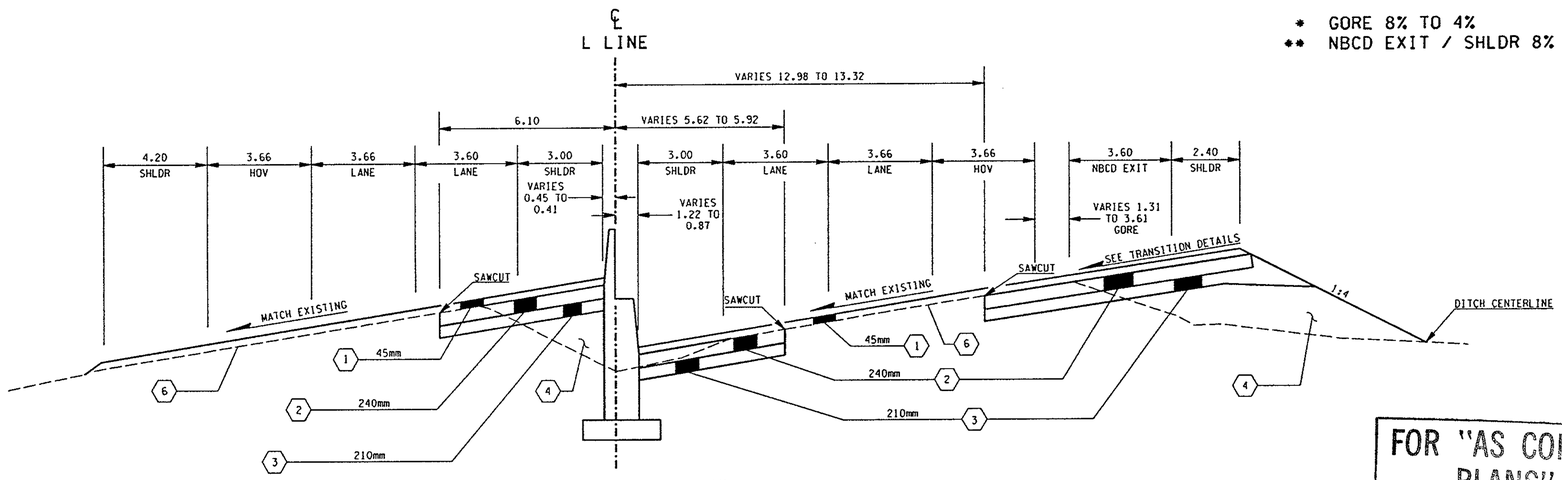
ROADWAY SECTION C



L 38+490 TO L 38+568.562

SUPER ELEVATION TRANSITION DETAIL

* GORE 8% TO 4%
** NBCD EXIT / SHLDR 8% TO 2%



L 38+510 TO L 38+545

ROADWAY SECTION B

LEGEND

1. ASPHALT CONC. PAVEMENT CL. A (WEARING COURSE)
2. ASPHALT CONC. PAVEMENT CL. A (LEVELING COURSE)
3. CRUSHED SURFACING BASE COURSE
4. ROADWAY EXCAVATION MATERIAL OR SPECIAL GRAVEL BORROW
5. SPECIAL GRAVEL BORROW
6. ASPHALT CONC. FOR PRELEVELING CL. G, INCLUDING SHOULDERS:
   200 TONNE PER LANE KILOMETER
   L 38+285.963 TO L 39+000
   170 TONNE PER LANE KILOMETER
   REMAINDER OF SR 405 AND AR4 RAMP
   140 TONNE PER LANE KILOMETER
   S-W RAMP

ALL DEPTHS SHOWN ARE COMPACTED DEPTHS

FOR "AS CONSTRUCTED PLANS" ONLY

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

DESIGNED BY D. MOON	10/16/96				
ENTERED BY B. SAVILLE	10/16/96				
CHECKED BY N. ABEDIN	10/16/96				
PROJ. ENGR. R.KINOSHITA	10/16/96				
REGIONAL ADM. J. OKAMOTO	10/16/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER	96W035	
CONTRACT NO.	5059	

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

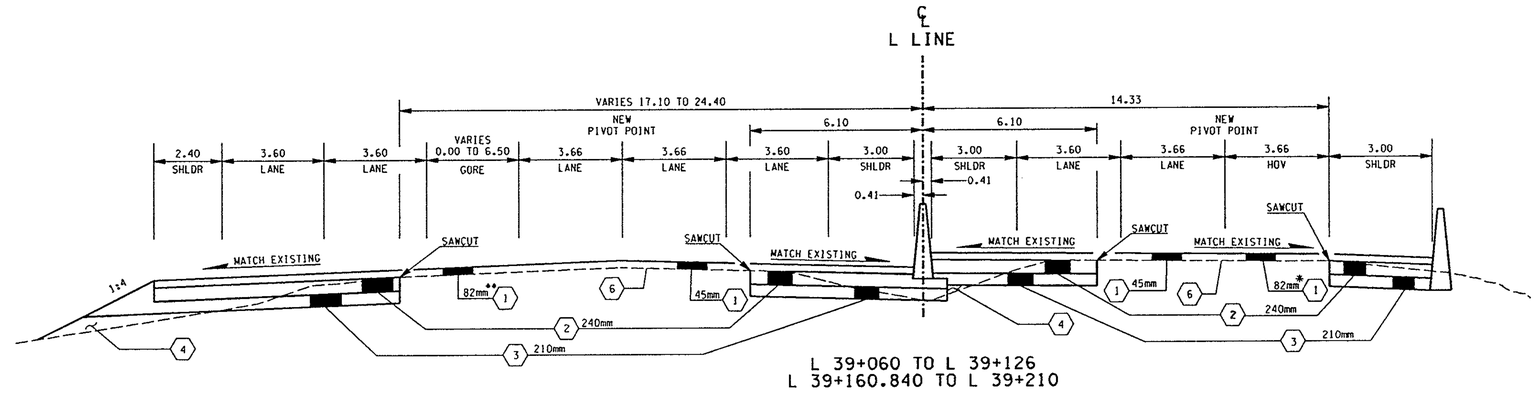
SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ROADWAY SECTIONS

RS-2

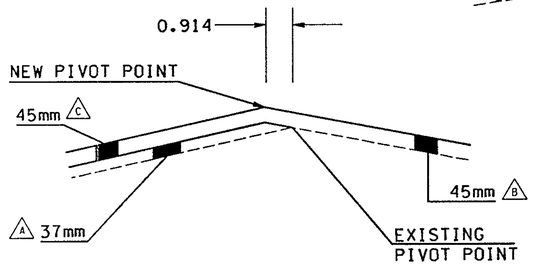
SHEET 16 OF 663 SHEETS

PLOT3 09 NOV 96 s:\412347\12095\overlaxs.dgn $(username)
Sat Nov 09 11:40:20 1996 D412347 T:\412347\A\44F1U-3.PLT

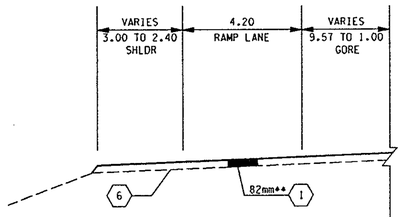


L 39+060 TO L 39+126
L 39+160.840 TO L 39+210

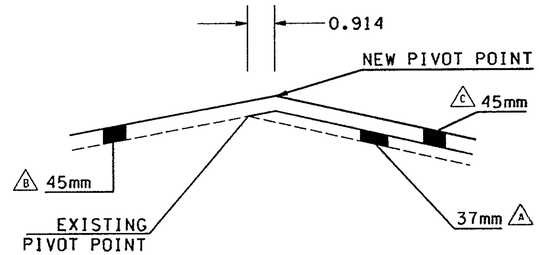
ROADWAY SECTION E



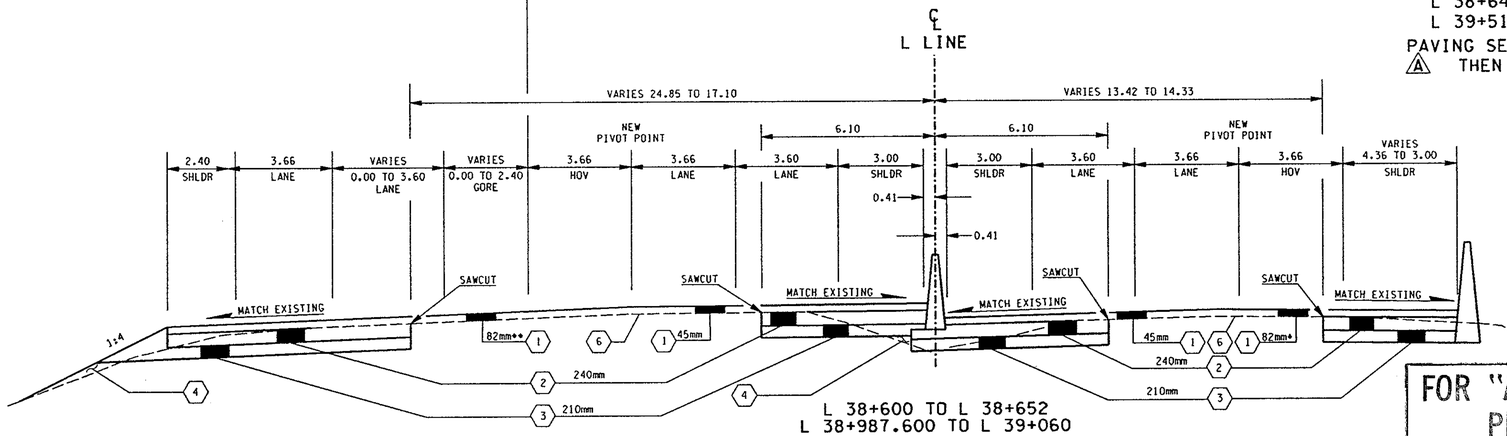
** TYPICAL SOUTHBOUND
PIVOT POINT SHIFT DETAIL
L 38+640 TO L 39+200
L 39+460 TO L 40+050
PAVING SEQUENCE SHALL BE
A THEN B THEN C



L 38+600.000 TO L 38+652.000



* TYPICAL NORTHBOUND
PIVOT POINT SHIFT DETAIL
L 38+640 TO L 39+200
L 39+510 TO L 40+060
PAVING SEQUENCE SHALL BE
A THEN B THEN C



L 38+600 TO L 38+652
L 38+987.600 TO L 39+060

ROADWAY SECTION D

LEGEND

1. ASPHALT CONC. PAVEMENT CL. A (WEARING COURSE)
2. ASPHALT CONC. PAVEMENT CL. A (LEVELING COURSE)
3. CRUSHED SURFACING BASE COURSE
4. ROADWAY EXCAVATION MATERIAL OR SPECIAL GRAVEL BORROW
5. SPECIAL GRAVEL BORROW
6. ASPHALT CONC. FOR PRELEVELING CL. G, INCLUDING SHOULDERS:
   200 TONNE PER LANE KILOMETER
   L 38+285.963 TO L 39+000
   170 TONNE PER LANE KILOMETER
   REMAINDER OF SR 405 AND AR4 RAMP
   140 TONNE PER LANE KILOMETER
   S-W RAMP

ALL DEPTHS SHOWN ARE COMPACTED DEPTHS

FOR "AS CONSTRUCTED PLANS" ONLY

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

DESIGNED BY D. MOON	10/16/96				
ENTERED BY B. SAVILLE	10/16/96				
CHECKED BY N. ABEDIN	10/16/96				
PROJ. ENGR. R.KINOSHITA	10/16/96				
REGIONAL ADM. J. OKAMOTO	10/16/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

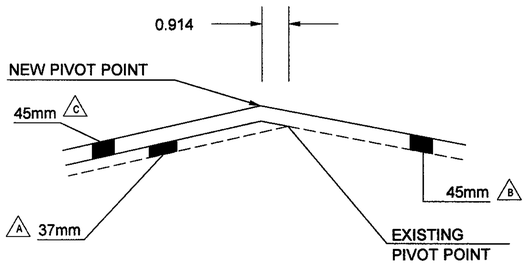
SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ROADWAY SECTIONS

RS-3

SHEET 17 OF 663 SHEETS

SchuerP
C:\DGN\MonabVAs Built L2095\OVERLAXS.DGN
06/22/2000
PLOT4

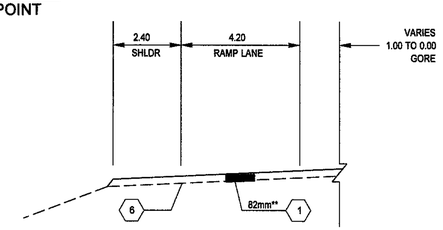


**

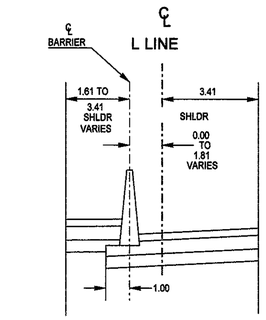
TYPICAL SOUTHBOUND PIVOT POINT SHIFT DETAIL

L 38+640 TO L 39+200
L 39+460 TO L 40+050

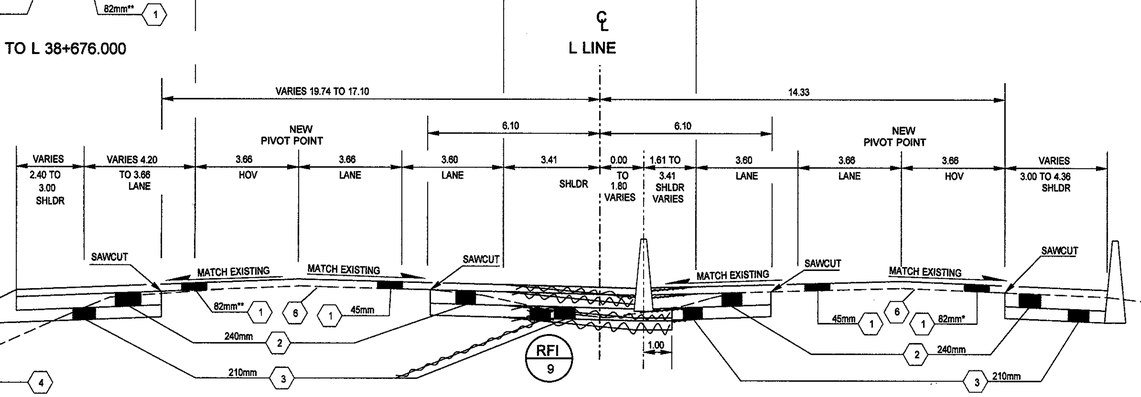
PAVING SEQUENCE SHALL BE
A THEN B THEN C



L 38+652.000 TO L 38+676.000

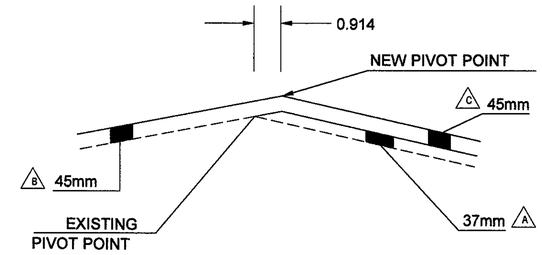


L 38+818.600 TO L 38+987.600



L 38+652 TO L 38+821

ROADWAY SECTION F



*

TYPICAL NORTHBOUND PIVOT POINT SHIFT DETAIL

L 38+640 TO L 39+200
L 39+510 TO L 40+060

PAVING SEQUENCE SHALL BE
A THEN B THEN C

LEGEND

1. ASPHALT CONC. PAVEMENT CL. A (WEARING COURSE)
2. ASPHALT CONC. PAVEMENT CL. A (LEVELING COURSE)
3. CRUSHED SURFACING BASE COURSE
4. ROADWAY EXCAVATION MATERIAL OR SPECIAL GRAVEL BORROW
5. SPECIAL GRAVEL BORROW
6. ASPHALT CONC. FOR PRELEVELING CL. G, INCLUDING SHOULDERS:
   200 TONNE PER LANE KILOMETER
   L 38+285.963 TO L 39+000
   170 TONNE PER LANE KILOMETER
   REMAINDER OF SR 405 AND AR4 RAMP
   140 TONNE PER LANE KILOMETER
   S-W RAMP

ALL DEPTHS SHOWN ARE COMPACTED DEPTHS

RFI 9 REQUEST FOR INFORMATION

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

FOR "AS CONSTRUCTED PLANS" ONLY

						REGION NO.	STATE	FED.AID PROJ.NO.
DESIGNED BY	D. MOON	10/16/96				10	WASH	
ENTERED BY	B. SAVILLE	10/16/96				JOB NUMBER		
CHECKED BY	N. ABEDIN	10/16/96				96W035		
PROJ. ENGR.	R.KINOSHITA	10/16/96				CONTRACT NO.		
REGIONAL ADM.	J. OKAMOTO	10/16/96	04/25/97	RFI #9	ALM			
		DATE	DATE	REVISION	BY			

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ROADWAY SECTIONS

RS-4

SHEET 18 OF 663 SHEETS

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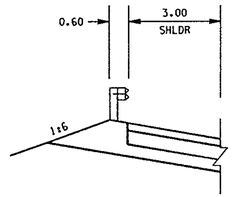
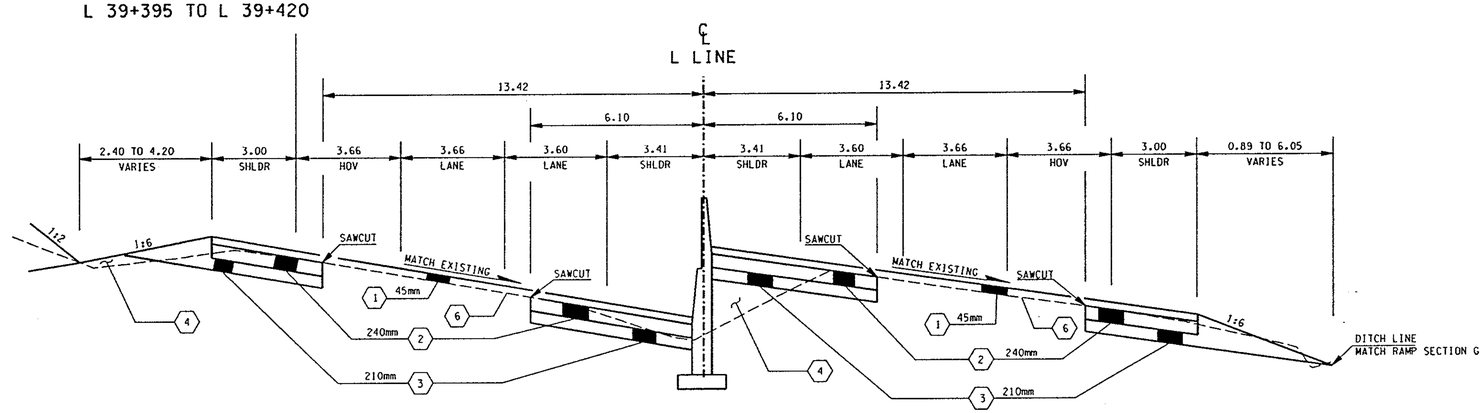
PLOT5
09 NOV 96 s:\412347\12095\overlaxs.dgn $(username)



L 39+395 TO L 39+420



L 39+210 TO L 39+420

ROADWAY SECTION G

LEGEND

1. ASPHALT CONC. PAVEMENT CL. A (WEARING COURSE)
2. ASPHALT CONC. PAVEMENT CL. A (LEVELING COURSE)
3. CRUSHED SURFACING BASE COURSE
4. ROADWAY EXCAVATION MATERIAL OR SPECIAL GRAVEL BORROW
5. SPECIAL GRAVEL BORROW
6. ASPHALT CONC. FOR PRELEVELING CL. G, INCLUDING SHOULDERS:
   - 200 TONNE PER LANE KILOMETER
     L 38+285.963 TO L 39+000
   - 170 TONNE PER LANE KILOMETER
     REMAINDER OF SR 405 AND AR4 RAMP
   - 140 TONNE PER LANE KILOMETER
     S-W RAMP

ALL DEPTHS SHOWN ARE COMPACTED DEPTHS

NOTE:
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FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY D. MOON	10/16/96				
ENTERED BY B. SAVILLE	10/16/96				
CHECKED BY N. ABEDIN	10/16/96				
PROJ. ENGR. R.KINOSHITA	10/16/96				
REGIONAL ADM. J. OKAMOTO	10/16/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5854

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

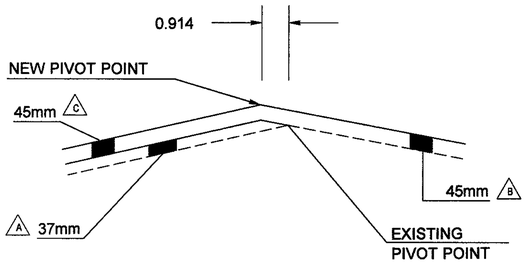
SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ROADWAY SECTIONS

RS-5

SHEET 19 OF 663 SHEETS

PLOT6 06/22/2000 C:\DGN\Mohab\As Built L2095\OVERLAXS.DGN SchuerP



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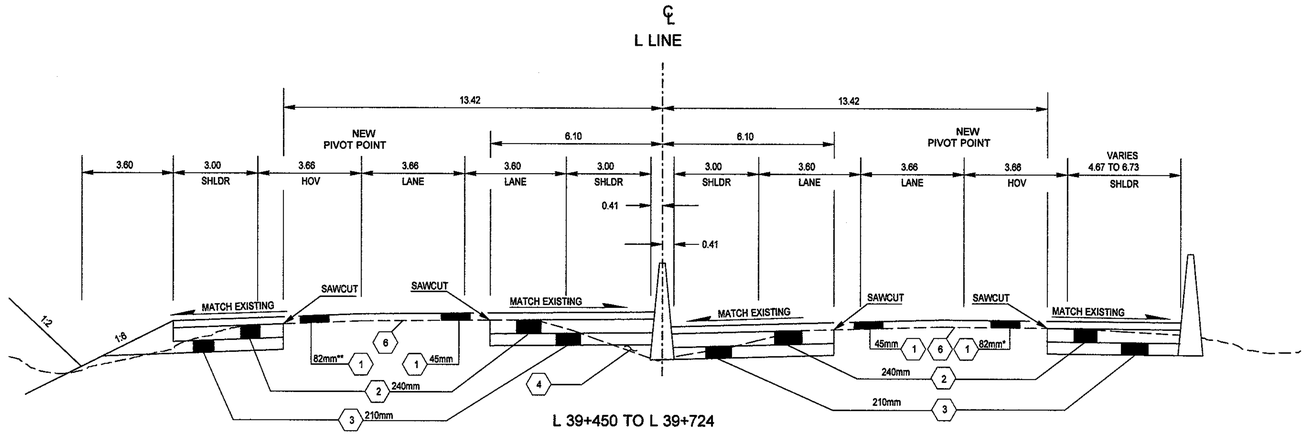
TYPICAL SOUTHBOUND PIVOT POINT SHIFT DETAIL

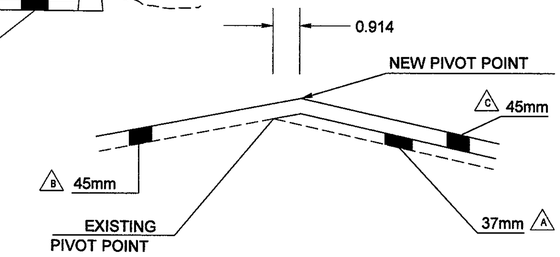
L 38+640 TO L 39+200
L 39+460 TO L 40+050

PAVING SEQUENCE SHALL BE
A THEN B THEN C



L 39+450 TO L 39+724

ROADWAY SECTION I



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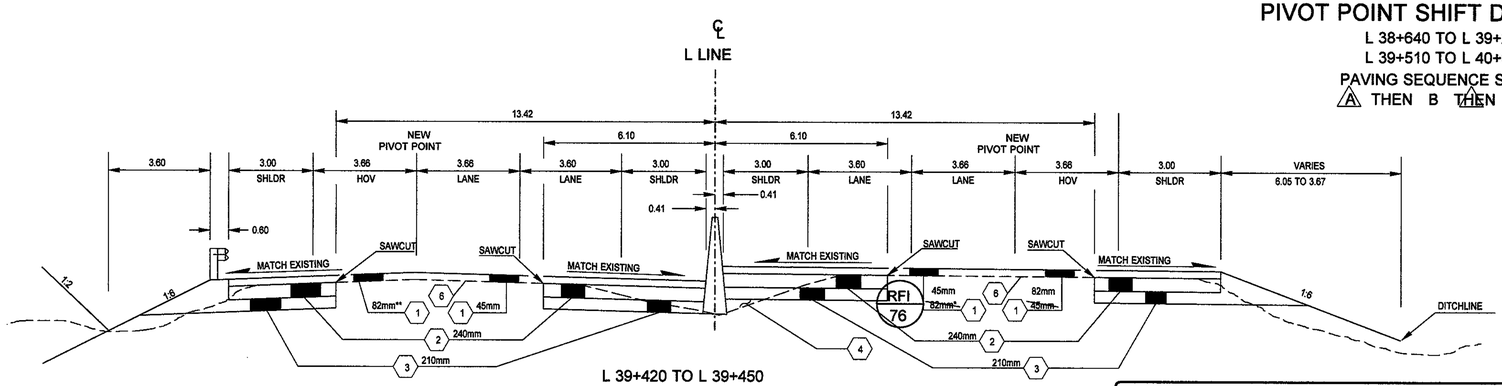
TYPICAL NORTHBOUND PIVOT POINT SHIFT DETAIL

L 38+640 TO L 39+200
L 39+510 TO L 40+060

PAVING SEQUENCE SHALL BE
A THEN B THEN C



L 39+420 TO L 39+450

ROADWAY SECTION H

LEGEND

1. ASPHALT CONC. PAVEMENT CL. A (WEARING COURSE)
2. ASPHALT CONC. PAVEMENT CL. A (LEVELING COURSE)
3. CRUSHED SURFACING BASE COURSE
4. ROADWAY EXCAVATION MATERIAL OR SPECIAL GRAVEL BORROW
5. SPECIAL GRAVEL BORROW
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   200 TONNE PER LANE KILOMETER
   L 38+285.963 TO L 39+000
   170 TONNE PER LANE KILOMETER
   REMAINDER OF SR 405 AND AR4 RAMP
   140 TONNE PER LANE KILOMETER
   S-W RAMP

RFI 76 REQUEST FOR INFORMATION

ALL DEPTHS SHOWN ARE COMPACTED DEPTHS

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FOR "AS CONSTRUCTED PLANS" ONLY

						REGION NO.	STATE	FED.AID PROJ.NO.
DESIGNED BY	D. MOON	10/16/96				10	WASH	
ENTERED BY	B. SAVILLE	10/16/96				JOB NUMBER		
CHECKED BY	N. ABEDIN	10/16/96				96W035		
PROJ. ENGR.	R.KINOSHITA	10/16/96				CONTRACT NO.		
REGIONAL ADM.	J. OKAMOTO	10/16/96	09/09/97	RFI #76	ALM			
		DATE	DATE	REVISION	BY			

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

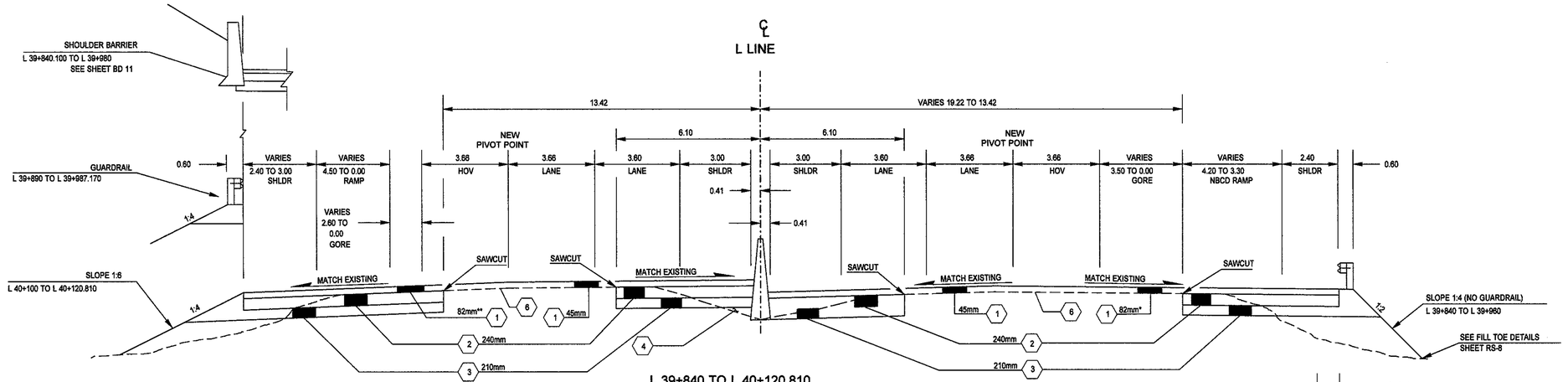
SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ROADWAY SECTIONS

RS-6

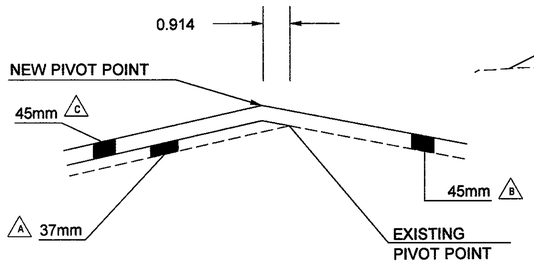
SHEET 20 OF 663 SHEETS

SchuerP
C:\DGN\Mohab\As Built L2095\OVERLAXS.DGN
06/22/2000
PLOT7



L 39+840 TO L 40+120.810

ROADWAY SECTION K

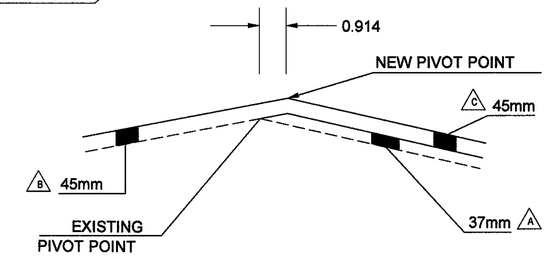


**

TYPICAL SOUTHBOUND PIVOT POINT SHIFT DETAIL

L 38+640 TO L 39+200
L 39+460 TO L 40+050

PAVING SEQUENCE SHALL BE
A THEN B THEN C



*

TYPICAL NORTHBOUND PIVOT POINT SHIFT DETAIL

L 38+640 TO L 39+200
L 39+510 TO L 40+060

PAVING SEQUENCE SHALL BE
A THEN B THEN C

LEGEND

1. ASPHALT CONC. PAVEMENT CL. A (WEARING COURSE)
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4. ROADWAY EXCAVATION MATERIAL OR SPECIAL GRAVEL BORROW
5. SPECIAL GRAVEL BORROW
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   200 TONNE PER LANE KILOMETER
   L 38+285.963 TO L 39+000
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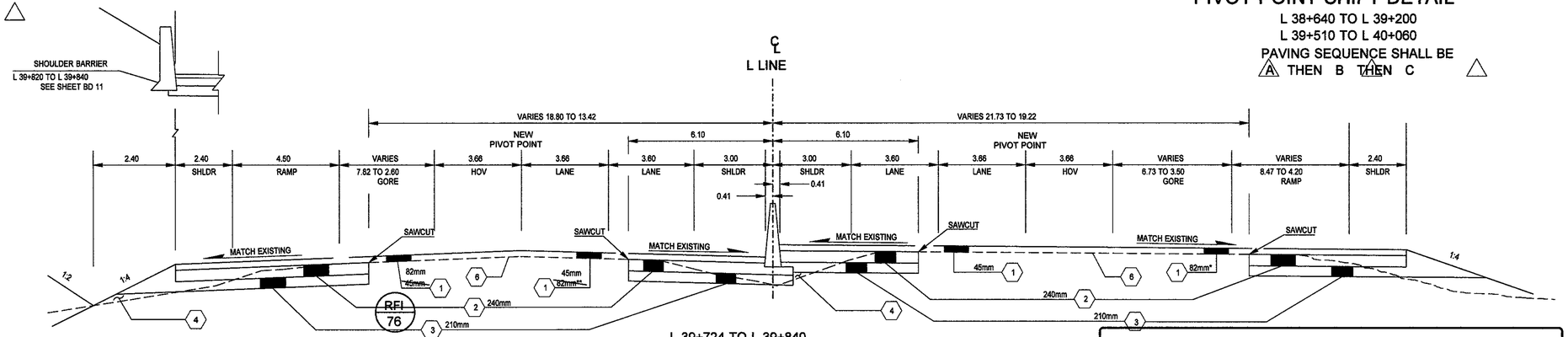
   REMAINDER OF SR 405 AND AR4 RAMP
   140 TONNE PER LANE KILOMETER
   S-W RAMP

RFI 76 REQUEST FOR INFORMATION

ALL DEPTHS SHOWN ARE COMPACTED DEPTHS



L 39+724 TO L 39+840

ROADWAY SECTION J

NOTE:
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FOR "AS CONSTRUCTED PLANS" ONLY

						REGION NO.	STATE	FED.AID PROJ.NO.
						10	WASH	
DESIGNED BY	D. MOON	10/16/96				JOB NUMBER		
ENTERED BY	B. SAVILLE	10/16/96				96W035		
CHECKED BY	N. ABEDIN	10/16/96				CONTRACT NO.		
PROJ. ENGR.	R.KINOSHITA	10/16/96						
REGIONAL ADM.	J. OKAMOTO	10/16/96	09/09/97	RFI #76	ALM			
		DATE	DATE	REVISION	BY			

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ROADWAY SECTIONS

RS-7

SHEET 21 OF 663 SHEETS

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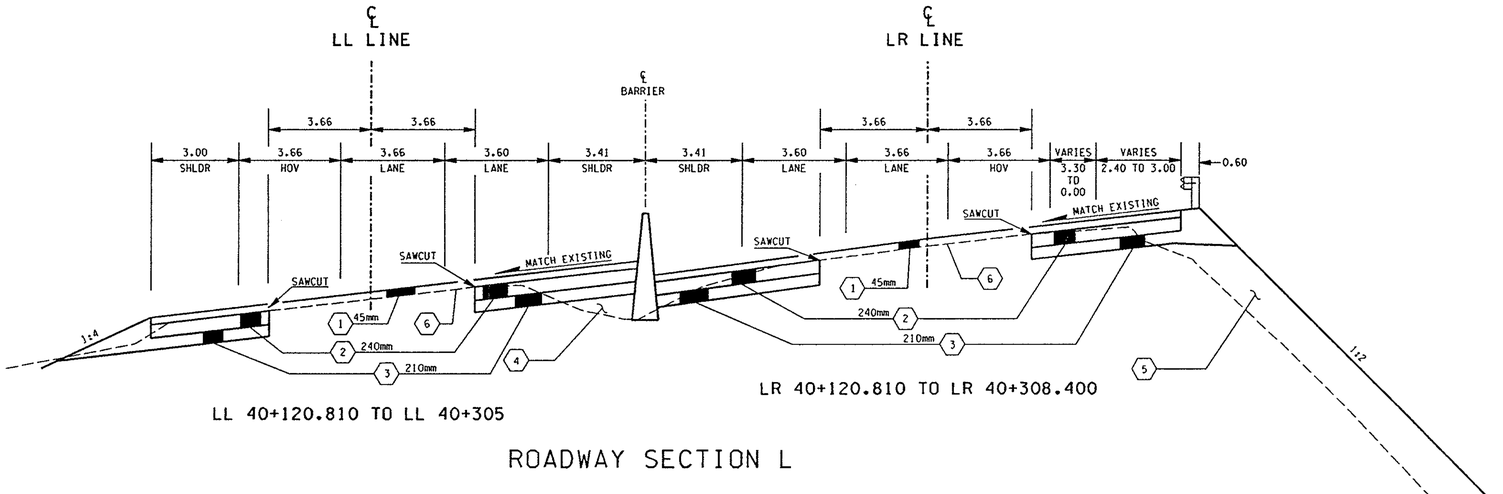
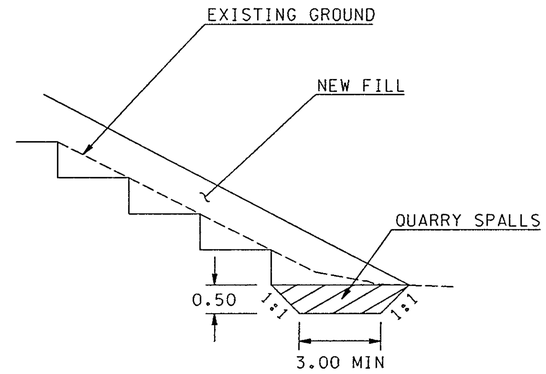


LL 40+120.810 TO LL 40+305

LR 40+120.810 TO LR 40+308.400

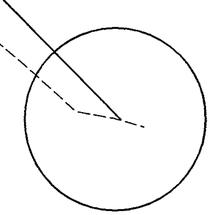
ROADWAY SECTION L



FILL TOE DETAIL

QUARRY SPALLS
PLAN QUANTITY (M3)

L 39+977 TO L 40+120.810	250
LR 40+120.810 TO LR 40+175	100



SEE FILL TOE DETAIL

LEGEND

1. ASPHALT CONC. PAVEMENT CL. A (WEARING COURSE)
2. ASPHALT CONC. PAVEMENT CL. A (LEVELING COURSE)
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5. SPECIAL GRAVEL BORROW
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     L 38+285.963 TO L 39+000
   - 170 TONNE PER LANE KILOMETER
     REMAINDER OF SR 405 AND AR4 RAMP
   - 140 TONNE PER LANE KILOMETER
     S-W RAMP

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ENTERED BY B. SAVILLE	10/16/96				
CHECKED BY N. ABEDIN	10/16/96				
PROJ. ENGR. R.KINOSHITA	10/16/96				
REGIONAL ADM. J. OKAMOTO	10/16/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ROADWAY SECTIONS

RS-8

SHEET 22 OF 663 SHEETS

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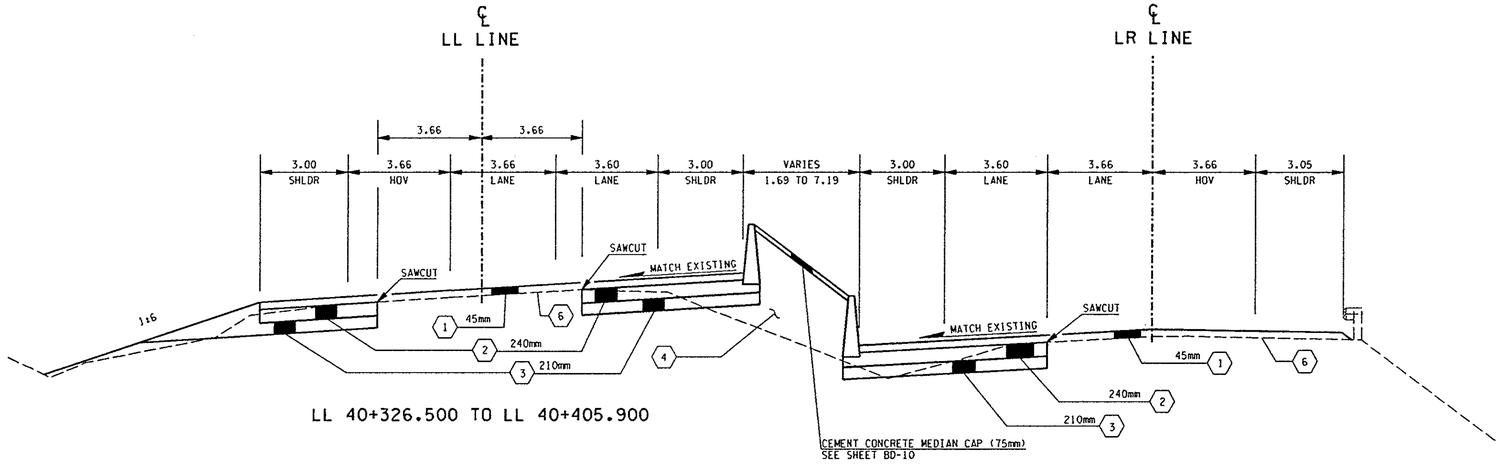
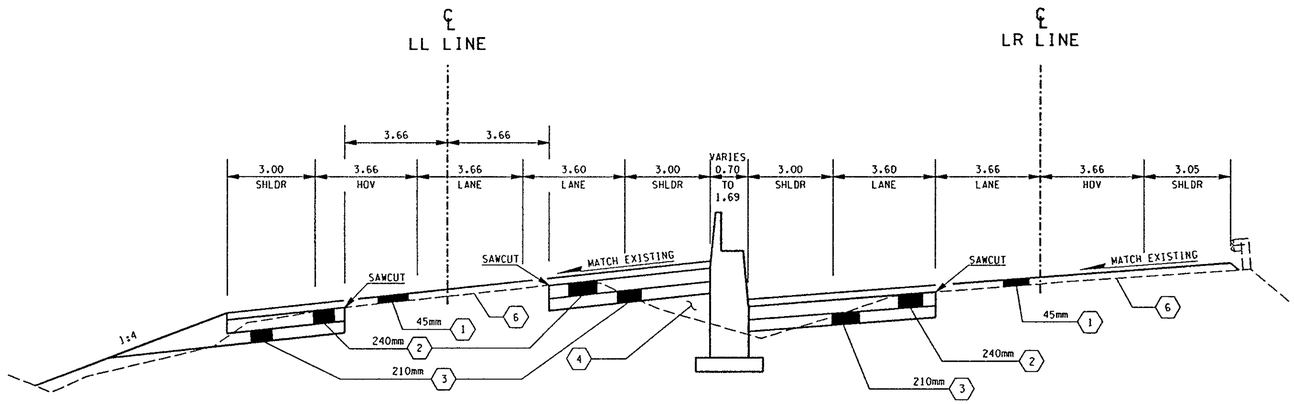


LL 40+326.500 TO LL 40+405.900

LR 40+340 TO LR 40+410

ROADWAY SECTION N



LL 40+305 TO LL 40+326.500

LR 40+308.400 TO LR 40+340

ROADWAY SECTION M

LEGEND

1. ASPHALT CONC. PAVEMENT CL. A (WEARING COURSE)
2. ASPHALT CONC. PAVEMENT CL. A (LEVELING COURSE)
3. CRUSHED SURFACING BASE COURSE
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   L 38+285.963 TO L 39+000
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   REMAINDER OF SR 405 AND AR4 RAMP
   140 TONNE PER LANE KILOMETER
   S-W RAMP

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FOR "AS CONSTRUCTED PLANS" ONLY

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ENTERED BY B. SAVILLE	10/16/96				
CHECKED BY N. ABEDIN	10/16/96				
PROJ. ENGR. R.KINOSHITA	10/16/96				
REGIONAL ADM. J. OKAMOTO	10/16/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ROADWAY SECTIONS

RS-9

SHEET 23 OF 663 SHEETS

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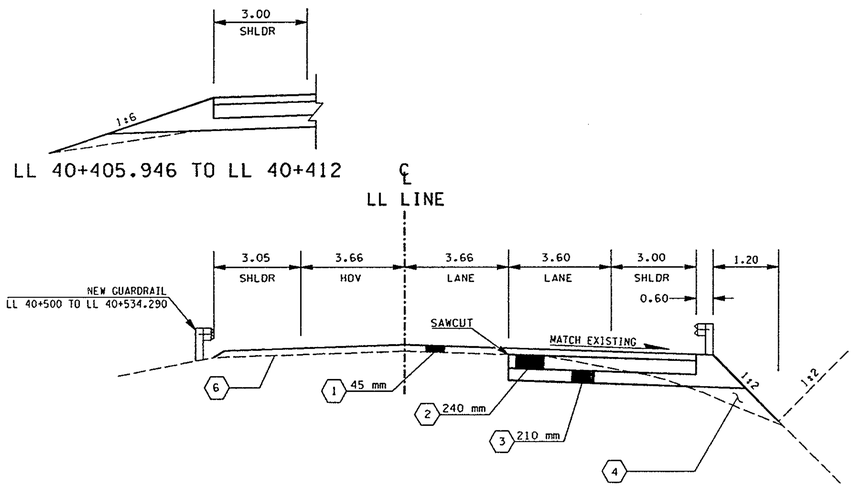
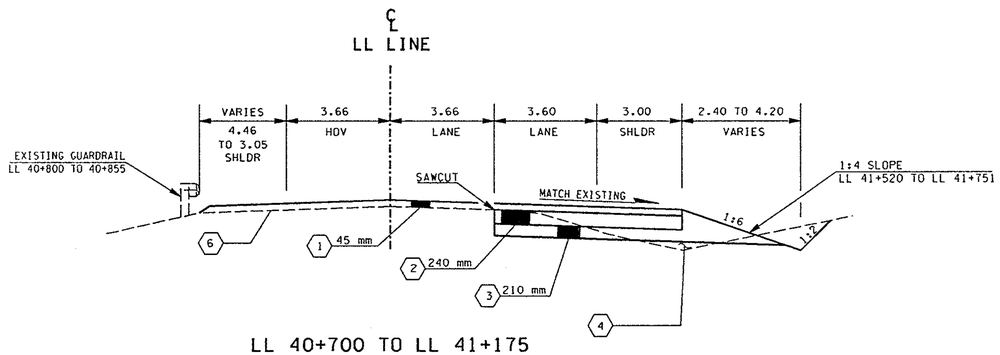


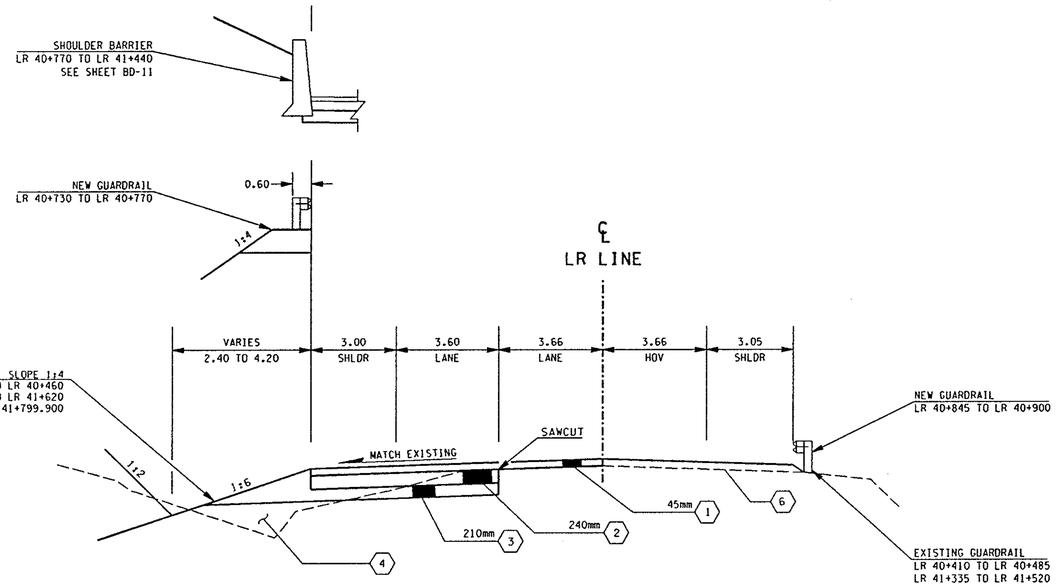
LL 40+405.946 TO LL 40+700
LL 41+175 TO LL 41+328
LL 41+450 TO LL 41+520

ROADWAY SECTION P



LL 40+700 TO LL 41+175
LL 41+328 TO LL 41+450
LL 41+520 TO LL 41+753.414

ROADWAY SECTION O



LR 40+410 TO LR 41+800

ROADWAY SECTION Q

LEGEND

1. ASPHALT CONC. PAVEMENT CL. A (WEARING COURSE)
2. ASPHALT CONC. PAVEMENT CL. A (LEVELING COURSE)
3. CRUSHED SURFACING BASE COURSE
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   L 38+285.963 TO L 39+000
   170 TONNE PER LANE KILOMETER
   REMAINDER OF SR 405 AND AR4 RAMP
   140 TONNE PER LANE KILOMETER
   S-W RAMP

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						REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
DESIGNED BY D. MOON	10/16/96					10	WASH		Washington State Department of Transportation
ENTERED BY B. SAVILLE	10/16/96					JOB NUMBER 96W035			SR 405 BOTHELL TO SWAMP CREEK I/C HOV LANES - STAGE 1
CHECKED BY N. ABEDIN	10/16/96								ROADWAY SECTIONS
PROJ. ENGR. R.KINOSHITA	10/16/96					CONTRACT NO. 5054			RS-10
REGIONAL ADM. J. OKAMOTO	10/16/96								SHEET 24 OF 663 SHEETS
	DATE	DATE	REVISION	BY					

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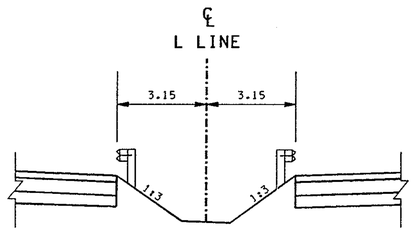
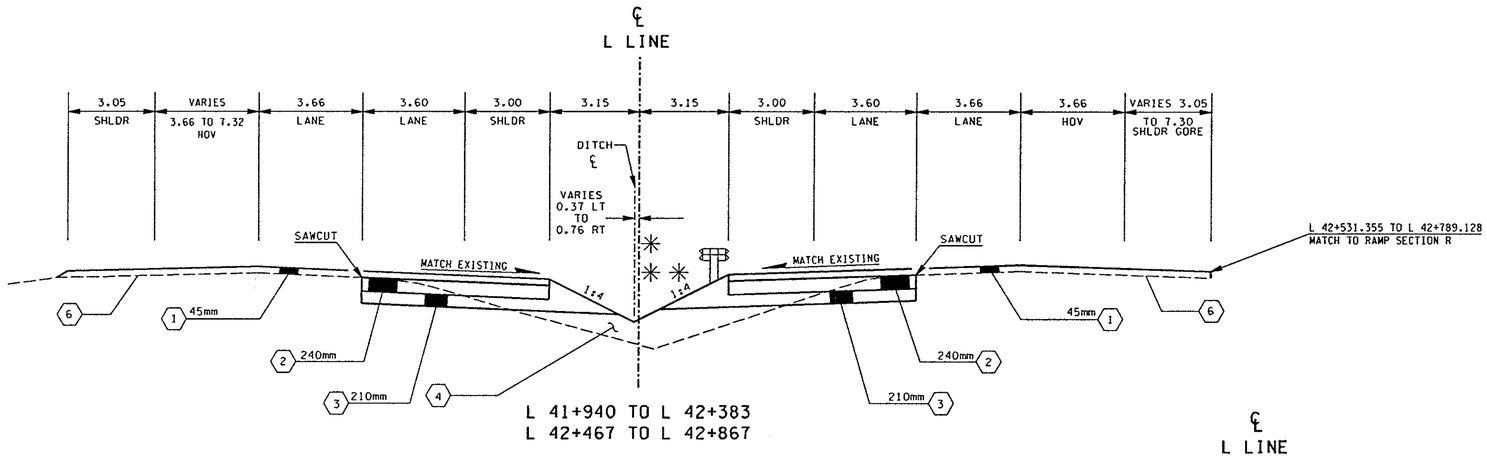
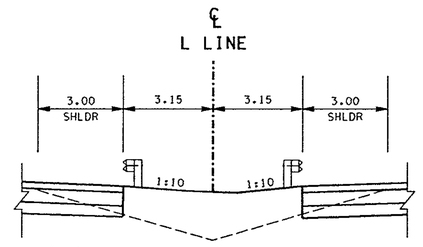


✳ SEE BIOSWALE DETAIL SHEET DD-2
L 41+945 TO 42+003

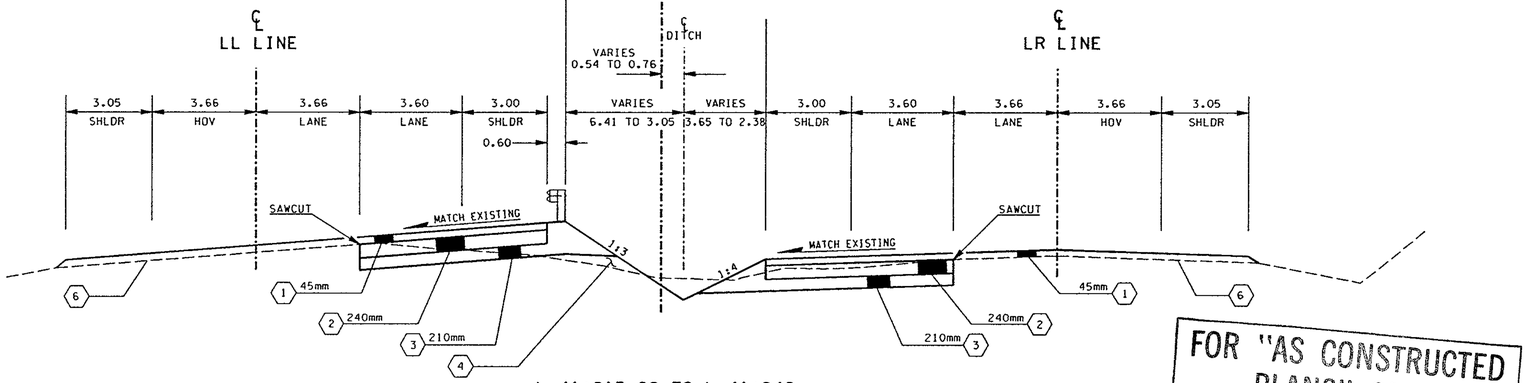


L 41+940 TO L 42+383
L 42+467 TO L 42+867
ROADWAY SECTION S



✳✳ MEDIAN DETAIL
L 42+020 TO L 42+092
L 42+520 TO L 42+592
NOTE: SEE PAVING PLANS FOR GUARDRAIL LAYOUT

LR 41+890.710 TO
L 41+944.834



LL 41+753.414 TO LL 41+867.002
L 41+915.88 TO L 41+940
ROADWAY SECTION R
LR 41+800 TO LR 41+915.880

FOR "AS CONSTRUCTED PLANS" ONLY

LEGEND

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   S-W RAMP

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PROJ. ENGR. R.KINOSHITA	10/16/96				
REGIONAL ADM. J. OKAMOTO	10/16/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

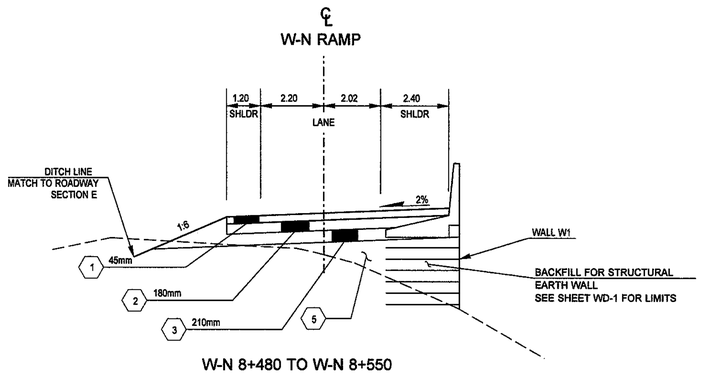
SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ROADWAY SECTIONS

RS-11

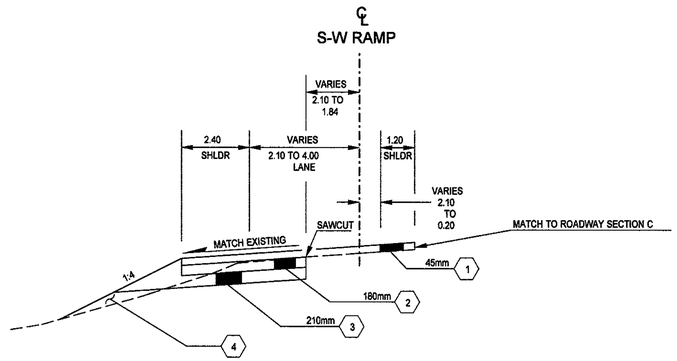
SHEET 25 OF 663 SHEETS

PLOT12 06/22/2000 C:\DGN\Mohab\As Built L2095\OVERLAXS.DGN SchuerP



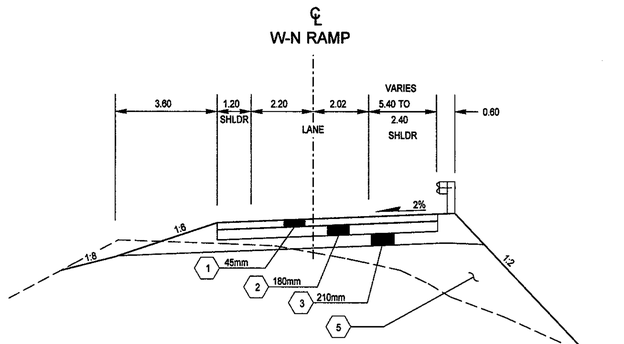
W-N 8+480 TO W-N 8+550

RAMP SECTION C



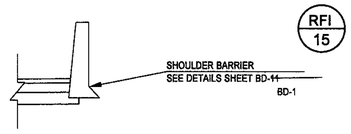
S-W 8+530 TO S-W 8+589.438
L 38+589.438 TO L 38+600

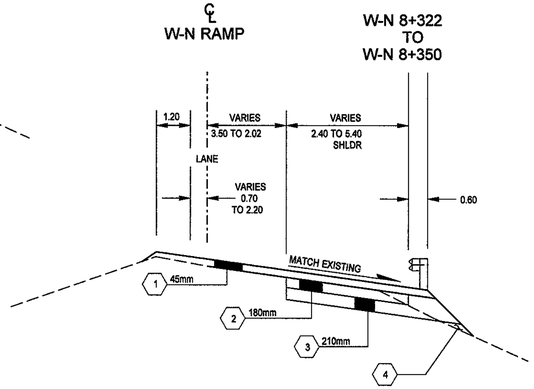
RAMP SECTION E



W-N 8+350 TO W-N 8+480

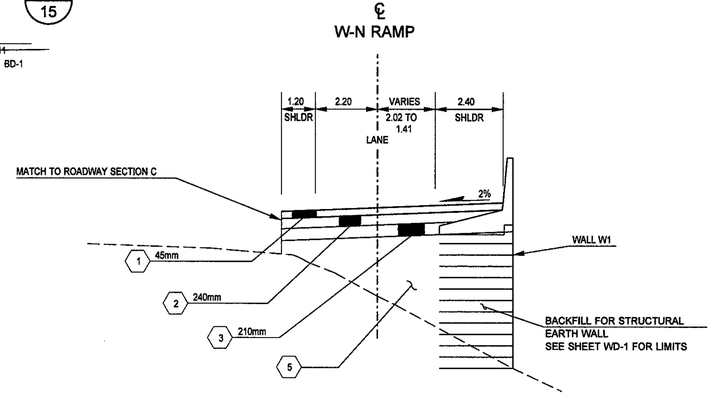
RAMP SECTION B





W-N 8+286 TO W-N 8+350

RAMP SECTION A



W-N 8+550 TO W-N 8+644.223

RAMP SECTION D

LEGEND

- RFI 15 — REQUEST FOR INFORMATION
- 1 — ASPHALT CONC. PAVEMENT CL. A (WEARING COURSE)
- 2 — ASPHALT CONC. PAVEMENT CL. A (LEVELING COURSE)
- 3 — CRUSHED SURFACING BASE COURSE
- 4 — ROADWAY EXCAVATION MATERIAL OR SPECIAL GRAVEL BORROW
- 5 — SPECIAL GRAVEL BORROW
- 6 — ASPHALT CONC. FOR PRELEVELING CL. G, INCLUDING SHOULDERS:
  - 200 TONNE PER LANE KILOMETER
    L 38+285.963 TO L 39+000
  - 170 TONNE PER LANE KILOMETER
    REMAINDER OF SR 405 AND AR4 RAMP
  - 140 TONNE PER LANE KILOMETER
    S-W RAMP

ALL DEPTHS SHOWN ARE COMPACTED DEPTHS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

FOR "AS CONSTRUCTED PLANS" ONLY

						REGION NO.	STATE	FED.AID PROJ.NO.
DESIGNED BY	D. MOON	10/16/96				10	WASH	
ENTERED BY	B. SAVILLE	10/16/96				JOB NUMBER		
CHECKED BY	N. ABEDIN	10/16/96				96W035		
PROJ. ENGR.	R.KINOSHITA	10/16/96				CONTRACT NO.		
REGIONAL ADM.	J. OKAMOTO	10/16/96	04/24/97	RFI #15	ALM			
		DATE	DATE	REVISION	BY			

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

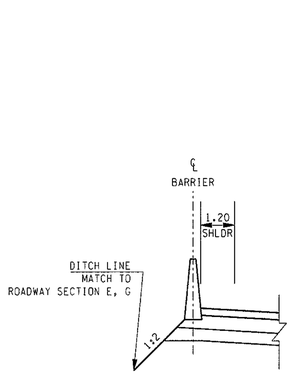
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

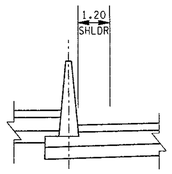
ROADWAY SECTIONS

RS-12

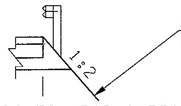
SHEET 26 OF 663 SHEETS



NBCD 9+200 TO
NBCD 9+236.078

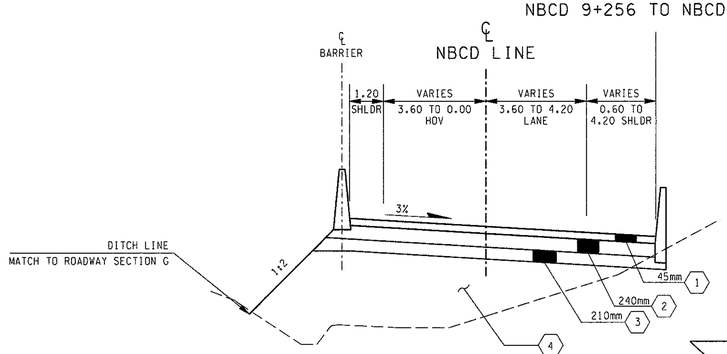


NBCD 9+430.244 TO
NBCD 9+651.241



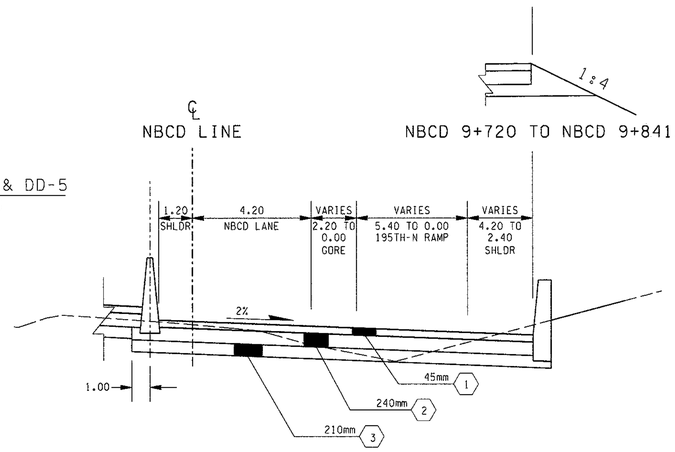
SEE SHEETS DD-4 & DD-5
FOR POND DETAILS

NBCD 9+256 TO NBCD 9+356.027



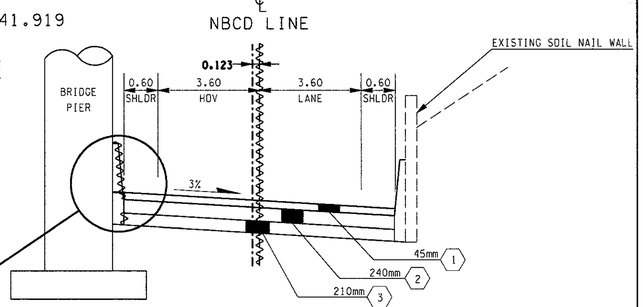
NBCD 9+236.078 TO NBCD 9+378.527
NBCD 9+430.244 TO NBCD 9+651.241

RAMP SECTION G



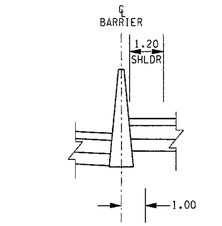
NBCD 9+651.241 TO NBCD 9+841.919

RAMP SECTION I

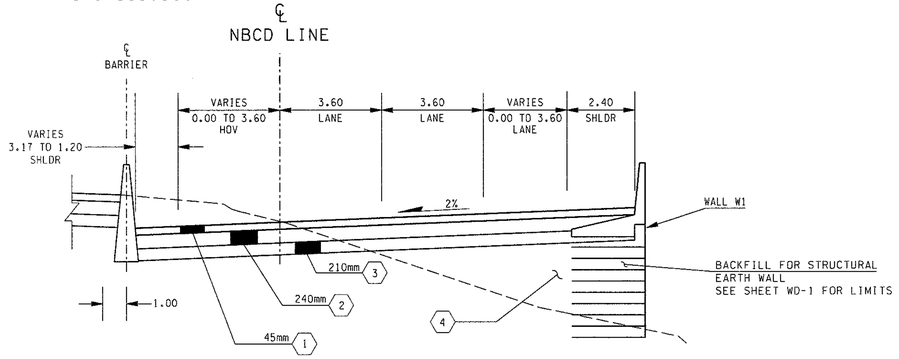


9+396.000 (CO 42)
NBCD ~~9+378.527~~ TO NBCD ~~9+430.244~~ 9+418.000 (CO 42)

REVISED RAMP SECTION H



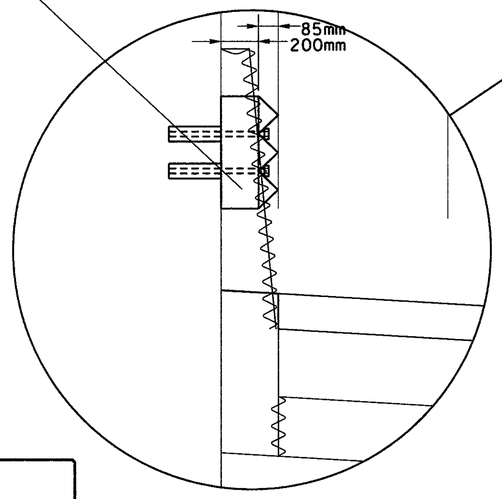
NBCD 9+070.100
TO 9+115.300



NBCD 8+644.223 TO NBCD 9+148
NBCD 9+185 TO NBCD 9+236.078
FOR NBCD 8+568.560 TO NBCD 8+644.223
SEE ROADWAY SECTION C

RAMP SECTION F

ATTACH STANDARD BLOCK TO CONCRETE STRUCTURE WITH 16mm DIA. EXPANSION ANCHOR OR 16mm DIA. THREADED ROD WITH EPOXY, HILTI HVA OR APPROVED EQUAL (CO 42)



NOTE:
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LEGEND

1. ASPHALT CONC. PAVEMENT CL. A (WEARING COURSE)
2. ASPHALT CONC. PAVEMENT CL. A (LEVELING COURSE)
3. CRUSHED SURFACING BASE COURSE
4. ROADWAY EXCAVATION MATERIAL OR SPECIAL GRAVEL BORROW
5. SPECIAL GRAVEL BORROW
6. ASPHALT CONC. FOR PRELEVELING CL. G, INCLUDING SHOULDERS:
   200 TONNE PER LANE KILOMETER
   L 38+285.963 TO L 39+000
   170 TONNE PER LANE KILOMETER
   REMAINDER OF SR 405 AND AR4 RAMP
   140 TONNE PER LANE KILOMETER
   S-W RAMP

ALL DEPTHS SHOWN ARE COMPACTED DEPTHS

(CO) CHANGE ORDER

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY D. MOON	10/16/96				
ENTERED BY B. SAVILLE	10/16/96				
CHECKED BY N. ABEDIN	10/16/96				
PROJ. ENGR. R.KINOSHITA	10/16/96				
REGIONAL ADM. J. OKAMOTO	10/16/96	5/14/99	Change Order #42	LP	
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 96W035		
CONTRACT NO.		

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

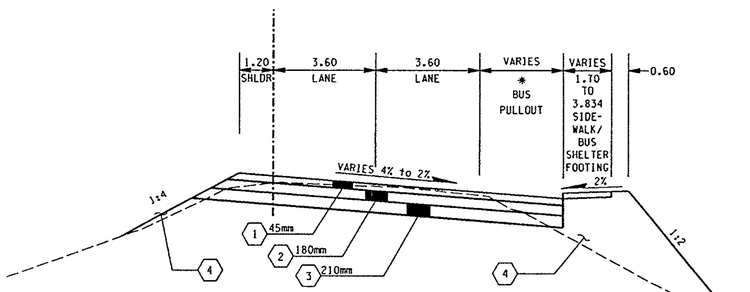
ROADWAY SECTIONS

RS-13

SHEET 27 OF 663 SHEETS

PLOT13 08/23/2000 i:\C5054\CADD Files\As Built L2095\OVERLAXS.DGN Plattel

Sat Nov 09 12:01:29 1996 D412347 T:\412347\A\44F1U-14.PLT
PLOT14 09 NOV 96 s:\412347\12095\overlaxs.dgn $(username)

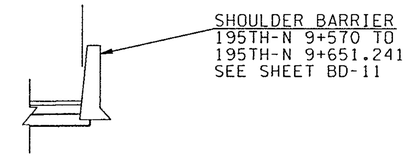


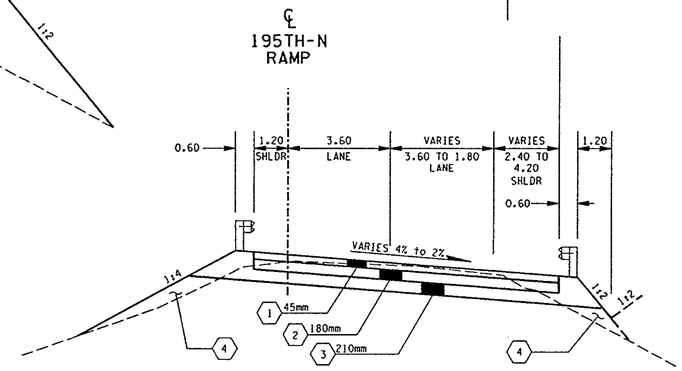
195TH-N 9+453.800 TO 195TH-N 9+497

RAMP SECTION J-J

* 195TH-N 9+453.800 TO 195TH-N 9+461.600
VARIES 2.30 TO 3.60

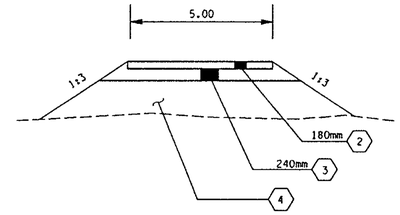
* 195TH-N 9+461.600 TO 195TH-N 9+497.000
VARIES 3.60 TO 0.00





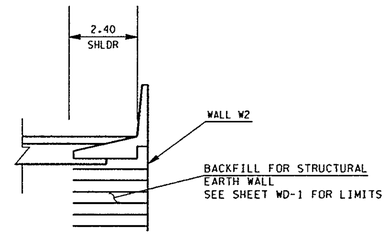
195TH-N 9+497 TO 195TH-N 9+651.241

RAMP SECTION K



LR 41+275 (SEE PV-13 FOR EXACT LOCATION)

MEDIAN CROSSOVER TYPICAL SECTION

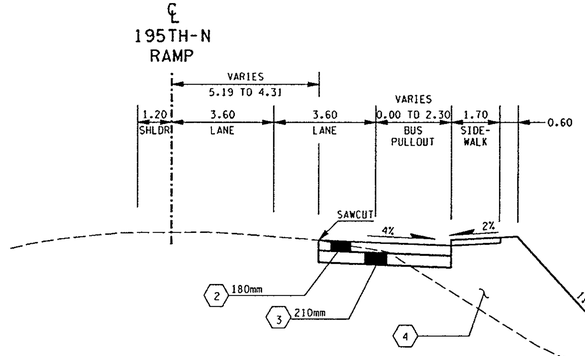


N-195TH 9+236.078 TO N-195TH 9+245

LEGEND

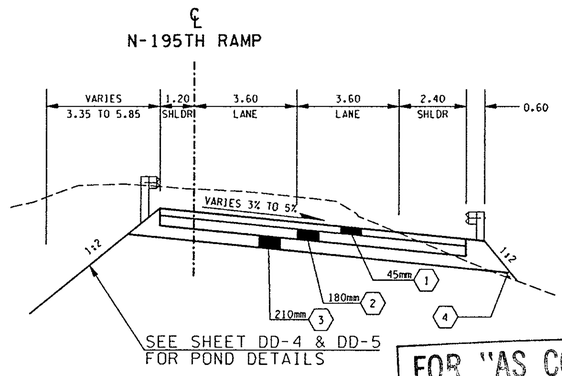
1. ASPHALT CONC. PAVEMENT CL. A (WEARING COURSE)
2. ASPHALT CONC. PAVEMENT CL. A (LEVELING COURSE)
3. CRUSHED SURFACING BASE COURSE
4. ROADWAY EXCAVATION MATERIAL OR SPECIAL GRAVEL BORROW
5. SPECIAL GRAVEL BORROW
6. ASPHALT CONC. FOR PRELEVELING CL. G, INCLUDING SHOULDERS:
   200 TONNE PER LANE KILOMETER
   L 38+285.963 TO L 39+000
   170 TONNE PER LANE KILOMETER
   REMAINDER OF SR 405 AND AR4 RAMP
   140 TONNE PER LANE KILOMETER
   S-W RAMP

ALL DEPTHS SHOWN ARE COMPACTED DEPTHS



195TH-N 9+430 TO 195TH-N 9+453.800

RAMP SECTION J



N-195TH 9+236.078 TO N-195TH 9+314.905

RAMP SECTION L

FOR "AS CONSTRUCTED PLANS" ONLY

NOTE:
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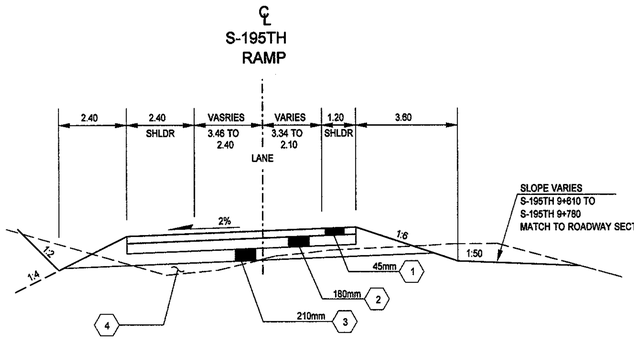
					REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
					10	WASH		
DESIGNED BY D. MOON	10/16/96				JOB NUMBER			Washington State Department of Transportation
ENTERED BY B. SAVILLE	10/16/96				96W035			
CHECKED BY N. ABEDIN	10/16/96				CONTRACT NO.			SR 405 BOTHELL TO SWAMP CREEK I/C HOV LANES - STAGE 1
PROJ. ENGR. R.KINOSHITA	10/16/96				5054			ROADWAY SECTIONS
REGIONAL ADM. J. OKAMOTO	10/16/96							
	DATE	DATE	REVISION	BY				

RS-14

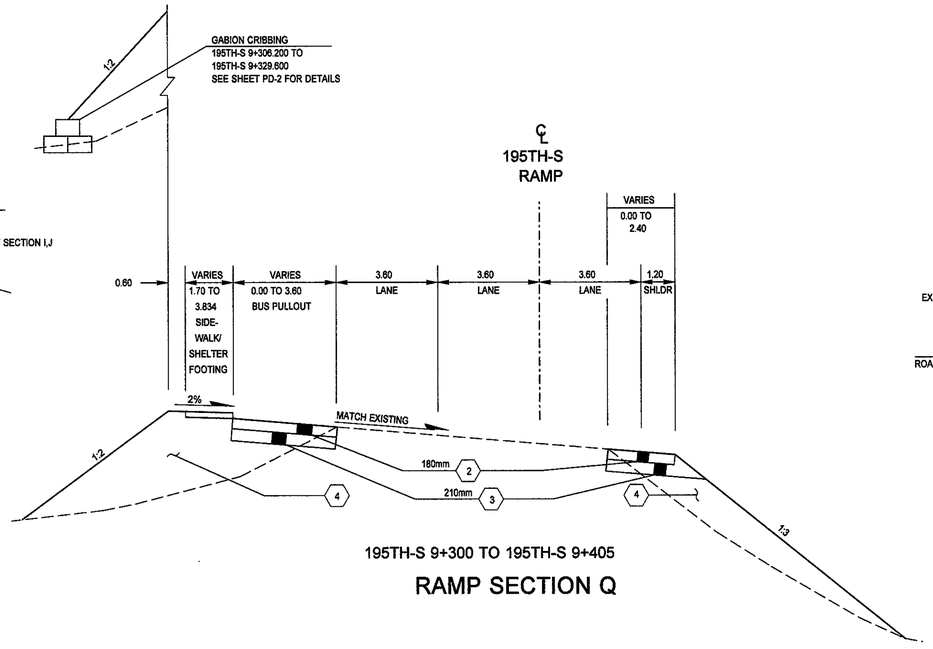
SHEET 28 OF 663 SHEETS

PLOT15 06/22/2000 C:\DGN\Mohab\As Built L2095\OVERLAXS.DGN SchuerP



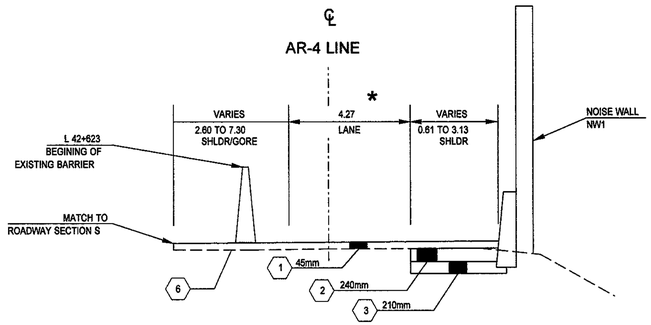
S-195TH 9+510 TO S-195 9+799.598

RAMP SECTION O



195TH-S 9+300 TO 195TH-S 9+405

RAMP SECTION Q

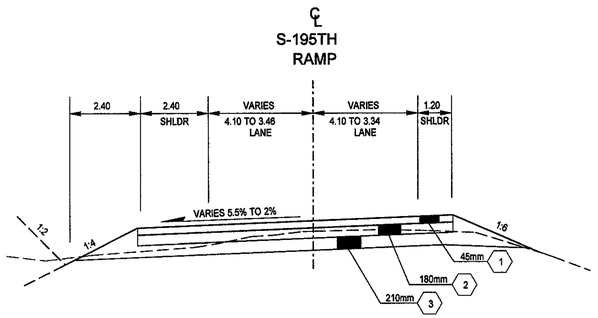


L 42+531.355 TO AR4 2+776.053 =
~~L 42+789.128~~

RFI 97

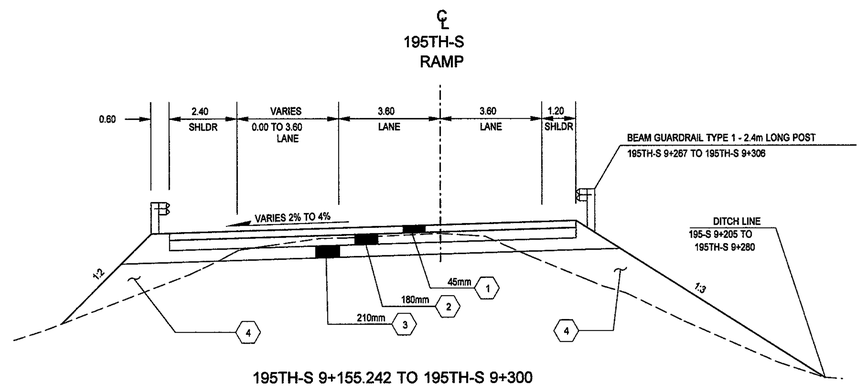
RAMP SECTION R

* VARIES 4.27 TO 13.562 FROM
STA. AR4 2+660 TO AR4 2+790



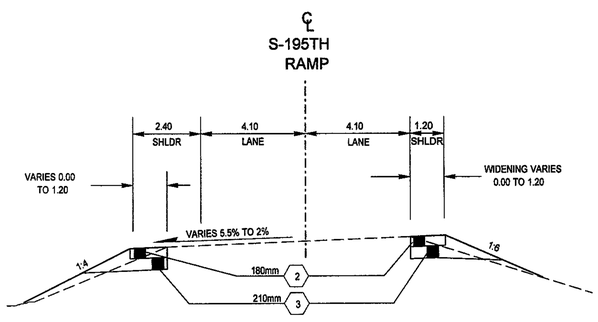
S-195TH 9+470 TO S-195TH 9+510

RAMP SECTION N



195TH-S 9+155.242 TO 195TH-S 9+300

RAMP SECTION P



S-195TH 9+425 TO S-195TH 9+470

RAMP SECTION M

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

FOR "AS CONSTRUCTED PLANS" ONLY

LEGEND

1. ASPHALT CONC. PAVEMENT CL. A (WEARING COURSE)
2. ASPHALT CONC. PAVEMENT CL. A (LEVELING COURSE)
3. CRUSHED SURFACING BASE COURSE
4. ROADWAY EXCAVATION MATERIAL OR SPECIAL GRAVEL BORROW
5. SPECIAL GRAVEL BORROW
6. ASPHALT CONC. FOR PRELEVELING CL. G, INCLUDING SHOULDERS:
   200 TONNE PER LANE KILOMETER
   L 38+285.963 TO L 39+000
   170 TONNE PER LANE KILOMETER
   REMAINDER OF SR 405 AND AR4 RAMP
   140 TONNE PER LANE KILOMETER
   S-W RAMP

ALL DEPTHS SHOWN ARE COMPACTED DEPTHS

RFI 97 REQUEST FOR INFORMATION

DESIGNED BY	D. MOON	10/16/96			
ENTERED BY	B. SAVILLE	10/16/96			
CHECKED BY	N. ABEDIN	10/16/96			
PROJ. ENGR.	R.KINOSHITA	10/16/96			
REGIONAL ADM.	J. OKAMOTO	10/16/96	01/29/98	RFI #97	ALM
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
96W035		

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ROADWAY SECTIONS

RS-15

SHEET 29 OF 663 SHEETS

PLOT1 08 NOV 96 s:\412347\12095\phsevin.dgn 412347
Fri Nov 08 16:28:46 1996 D412347 T:\412347\ODAE-1.PLT

LEDGEND

PHASE 1
PHASE 2
PHASE 3

BOTHELL

R 4 E
R 5 E
T 26 N
T 27 N
SNOHOMISH CO
KING CO

7TH AV SE
EVERETT WAY NE
100TH AVE NE
104TH AVE NE
19TH AVE SE
23RD AVE SE
9TH AVE SE
35TH AVE SE
120TH AVE NE
39TH AVE SE
NE 190TH ST
NE 195TH ST
182ND ST NE
232ND ST SE
240TH ST SE
228TH ST SE
102ND AVE NE
112 PL NE
E RIVERSIDE DR
BMRR (ABANDONED)
KAYSNER WY
BEARDSLEE BLVD
WOODINVILLE DR
SR 522
SAMMAMISH RIVER
WETLAND MITIGATION SITE
CREEK
NORTH
527
405

TO LYNNWOOD
4.70 km

BRIDGE 527/104
NOT INCLUDED IN PROJECT

BRIDGE 405/103W
INCLUDED IN PROJECT

NOISE WALL NW2
NOISE WALL NW1

BRIDGE 405/103E
INCLUDED IN PROJECT

BRIDGE 405/72 W
INCLUDED IN PROJECT

BRIDGE 405/73
NOT INCLUDED IN PROJECT

BRIDGE 405/72 E
BRIDGE 405/72 NBCD
INCLUDED IN PROJECT

MSE WALL W1 & W1B

END CONSTRUCTION
SR 405 = MP 26.78
STA L 43+100.000

END PROJECT
SR 405 MP 26.64
STA L 42+867.000

29
LR 41+915.880 P.O.T. BK (13.411RT) = EQUATION
LL 41+867.002 P.O.T. BK (13.411 LT) =
L 41+915.880 P.O.T. AHD

L 40+120.810 P.O.T. BK = EQUATION
LR 40+120.810 P.C. AHD (9.754 RT)
LL 40+120.810 P.C. AHD (9.754 LT)

BEGIN CONSTRUCTION
SR 405 = MP 23.29
STA 37+475.000

BEGIN PROJECT
SR 405 = MP 23.78
STA. L 38+285.963

FOR "AS CONSTRUCTED PLANS" ONLY

0 200 400 600 800 1000
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE SHOWN IN METERS UNLESS OTHERWISE INDICATED.

DESIGNED BY N.ABEDIN				REGION NO.	STATE	FED.AID PROJ.NO.
ENTERED BY P.ARNOLD				10	WASH	
CHECKED BY N.ABEDIN				JOB NUMBER		
PROJ. ENGR. R.KINOSHITA				96W035		
REGIONAL ADM. J.OKAMOTO				CONTRACT NO.		
	DATE	DATE	REVISION	BY	5054	

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES PHASE 2-STAGE 1

CONSTRUCTION SEQUENCE PLAN

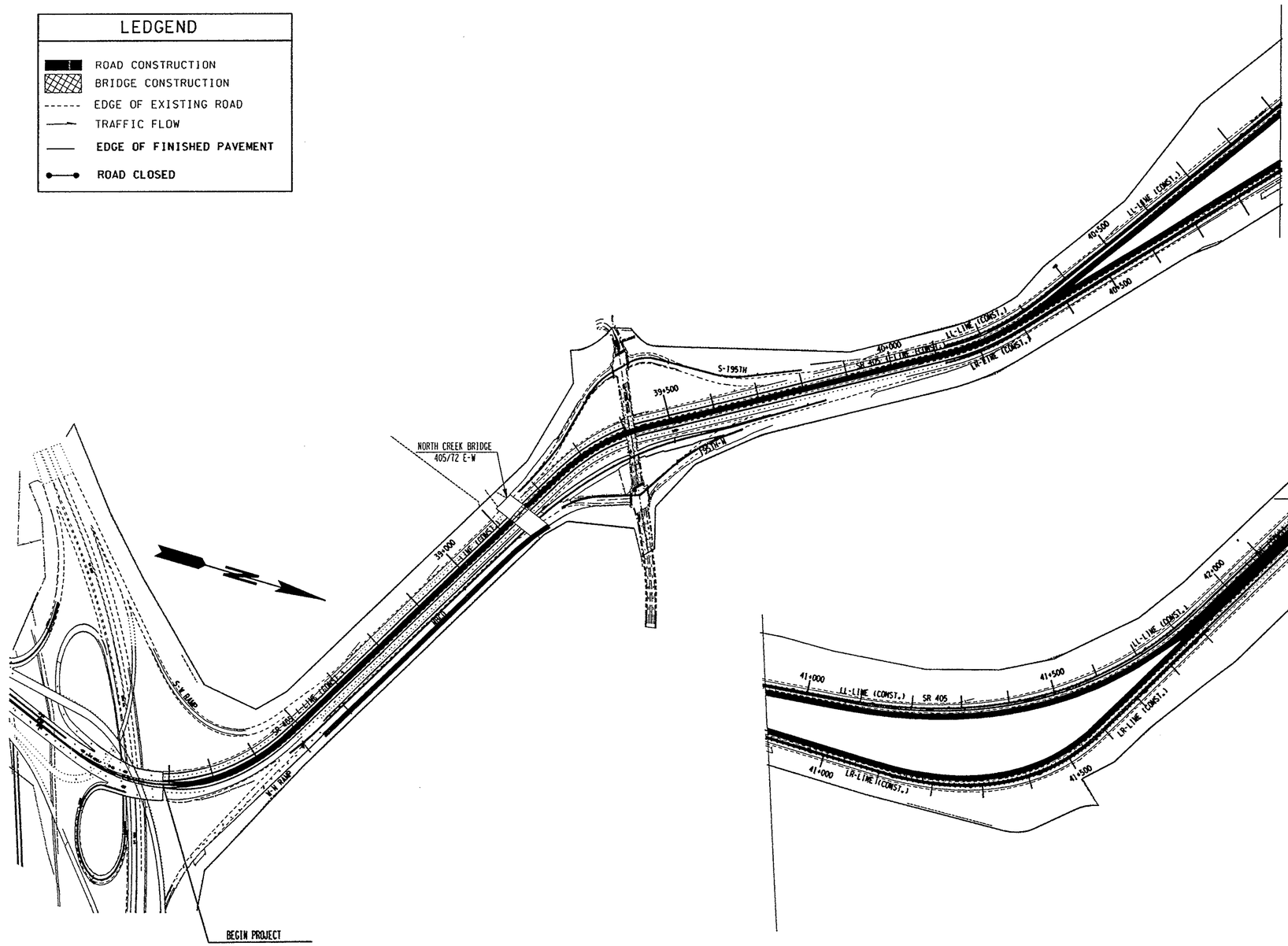
CS-1

SHEET 30 OF 663 SHEETS

Fri Nov 08 16:29:24 1996 D412347 T:\412347\A\ODAE-3.PLT
08 NOV 96 s:\412347\12095\phsevin.dgn 412347

LEDGEND

- ROAD CONSTRUCTION
- BRIDGE CONSTRUCTION
- EDGE OF EXISTING ROAD
- TRAFFIC FLOW
- EDGE OF FINISHED PAVEMENT
- ROAD CLOSED



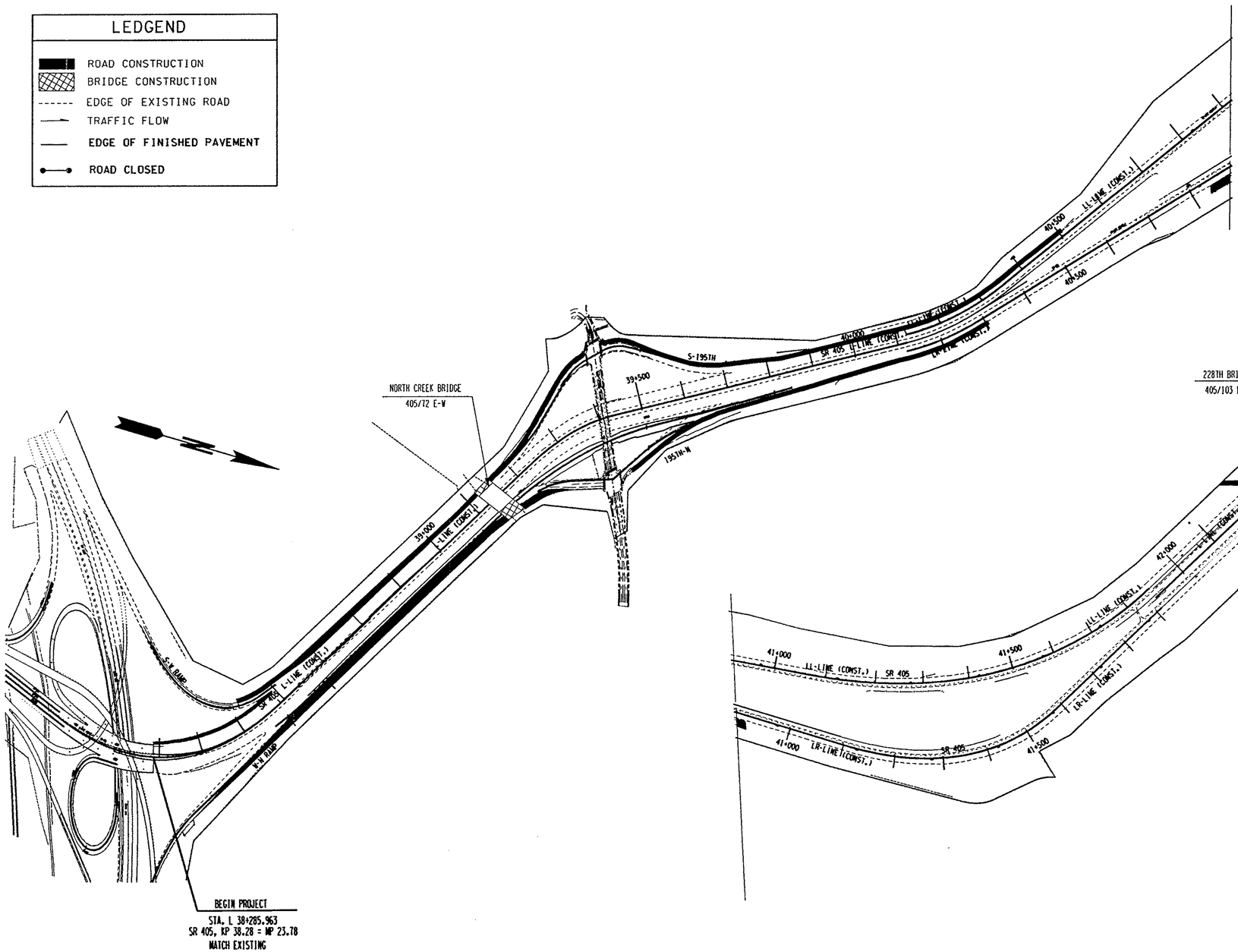
FOR "AS CONSTRUCTED PLANS" ONLY

					REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
DESIGNED BY N.ABEDIN					10	WASH		Washington State Department of Transportation
ENTERED BY P.ARNOLD					JOB NUMBER 96W035			SR 405 BOTHELL TO SWAMP CREEK I/C HOV LANES - PHASE 1
CHECKED BY N.ABEDIN								CONSTRUCTION SEQUENCE PLAN
PROJ. ENGR. R.KINOSHITA					CONTRACT NO. 5084			CS-2
REGIONAL ADM. J.OKAMOTO								SHEET 31 OF 663 SHEETS
	DATE	DATE	REVISION	BY				

T:\412347\A\ODAE-2.PLT
Fri Nov 08 16:29:00 1996 D412347
08 NOV 96 s:\412347\12095\phsevin.dgn 412347

LEDGEND

- ROAD CONSTRUCTION
- BRIDGE CONSTRUCTION
- EDGE OF EXISTING ROAD
- TRAFFIC FLOW
- EDGE OF FINISHED PAVEMENT
- ROAD CLOSED



FOR "AS CONSTRUCTED PLANS" ONLY

					REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
					10	WASH		
DESIGNED BY N.ABEDIN					JOB NUMBER			Washington State Department of Transportation
ENTERED BY P.ARNOLD					96W035			
CHECKED BY N.ABEDIN					CONTRACT NO.			SR 405 BOTHELL TO SWAMP CREEK I/C HOV LANES PHASE 2-STAGE 1
PROJ. ENGR. R.KINOSHITA					5059			CONSTRUCTION SEQUENCE PLAN
REGIONAL ADM. J.OKAMOTO								
	DATE	DATE	REVISION	BY				

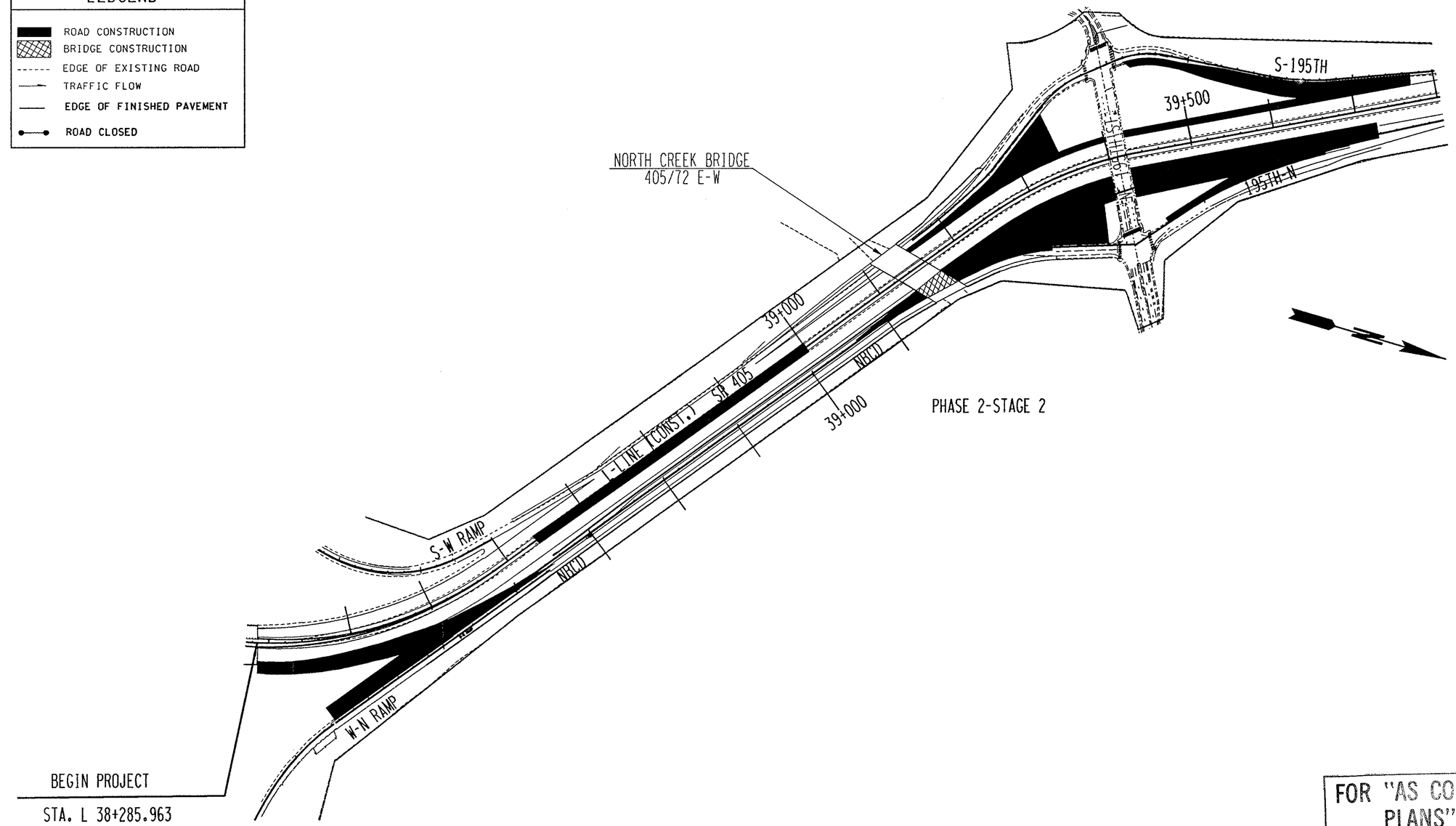
CS-3

SHEET 32 OF 663 SHEETS

Fri Nov 08 16:29:48 1996 D412347 T:\412347\A\ODAE-4.PLT
08 NOV 96 s:\412347\12095\phsevin.dgn 412347

LEDGEND

- ROAD CONSTRUCTION
- BRIDGE CONSTRUCTION
- EDGE OF EXISTING ROAD
- TRAFFIC FLOW
- EDGE OF FINISHED PAVEMENT
- ROAD CLOSED



PHASE 2-STAGE 2

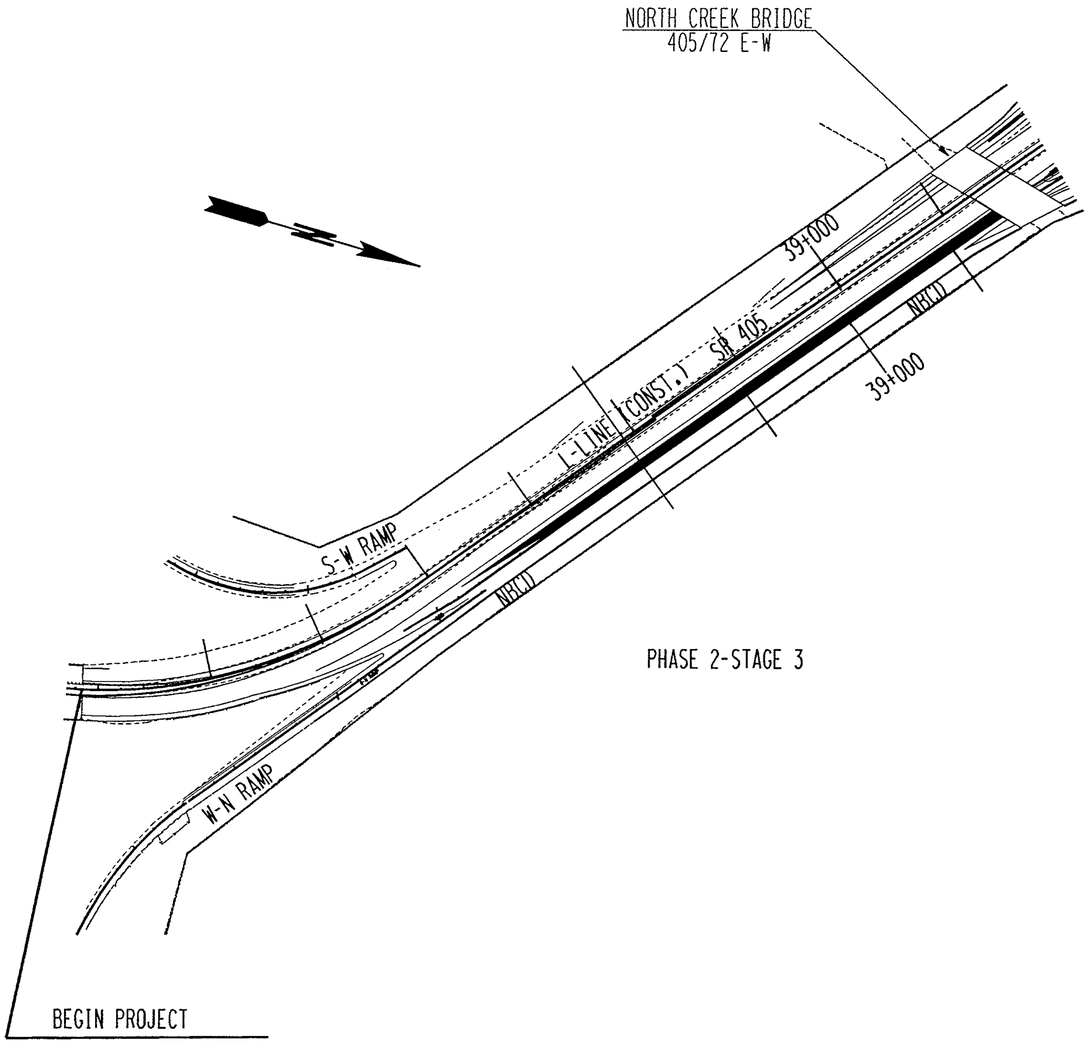
FOR "AS CONSTRUCTED PLANS" ONLY

					REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER	SR 405 BOTHELL TO SWAMP CREEK I/C HOV LANES PHASE 2-STAGE2
					10	WASH		Washington State Department of Transportation	CS-4
DESIGNED BY N.ABEDIN					JOB NUMBER				SHEET 33 OF 663 SHEETS
ENTERED BY P.ARNOLD					96W035				
CHECKED BY N.ABEDIN					CONTRACT NO.				CONSTRUCTION SEQUENCE PLAN
PROJ. ENGR. R.KINOSHITA					5054				
REGIONAL ADM. J.OKAMOTO									
	DATE	DATE	REVISION	BY					

Fri Nov 08 16:30:03 1996 D412347 T:\412347\A\ODAE-5.PLT
08 NOV 96 s:\412347\12095\phsevin.dgn 412347

LEDGEND

- ROAD CONSTRUCTION
- BRIDGE CONSTRUCTION
- EDGE OF EXISTING ROAD
- TRAFFIC FLOW
- EDGE OF FINISHED PAVEMENT
- ROAD CLOSED



PHASE 2-STAGE 3

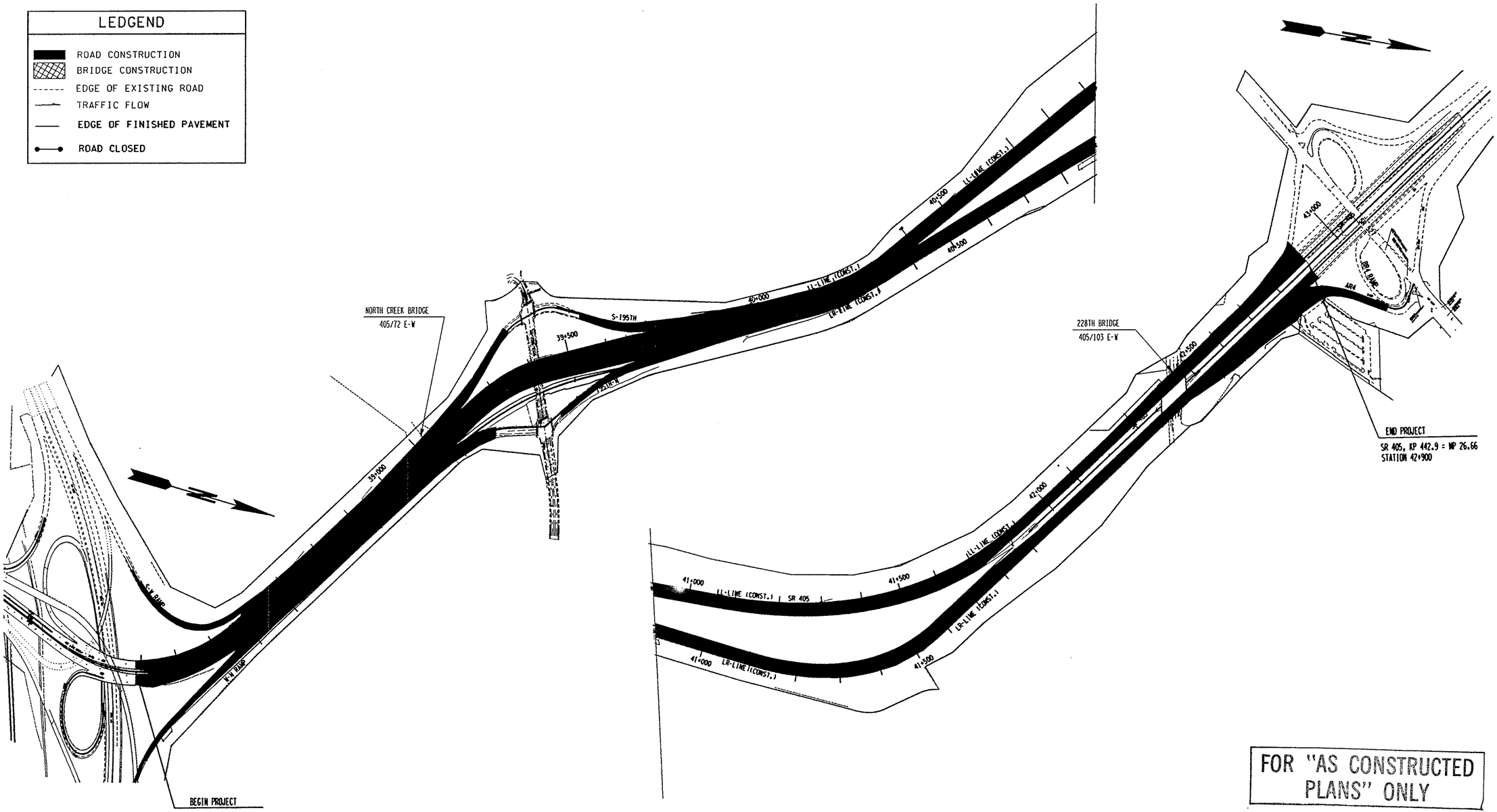
FOR "AS CONSTRUCTED PLANS" ONLY

					REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER	Washington State Department of Transportation	SR 405 BOTHELL TO SWAMP CREEK I/C HOV LANES PHASE 2 - STAGE 3	CS-5
DESIGNED BY	N.ABEDIN				10	WASH					
ENTERED BY	P.ARNOLD				JOB NUMBER						SHEET 34 OF 663 SHEETS
CHECKED BY	N.ABEDIN				96W035					CONSTRUCTION SEQUENCE PLAN	
PROJ. ENGR.	R.KINOSHITA				CONTRACT NO.						
REGIONAL ADM.	J.OKAMOTO				5054						
		DATE	DATE	REVISION	BY						

Fri Nov 08 16:31:06 1996 D412347 T:\412347\A\ODAE-6.PLT
08 NOV 96 s:\412347\12095\phsevin.dgn 412347

LEDGEND

- ROAD CONSTRUCTION
- BRIDGE CONSTRUCTION
- EDGE OF EXISTING ROAD
- TRAFFIC FLOW
- EDGE OF FINISHED PAVEMENT
- ROAD CLOSED



FOR "AS CONSTRUCTED PLANS" ONLY

					REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER	SR 405 BOTHELL TO SWAMP CREEK I/C HOV LANES PHASE 3 ACP OVERLAY
DESIGNED BY N.ABEDIN					10	WASH		Washington State Department of Transportation	CS-6
ENTERED BY P.ARNOLD					JOB NUMBER				
CHECKED BY N.ABEDIN					96W035				SHEET 35 OF 663 SHEETS
PROJ. ENGR. R.KINOSHITA					CONTRACT NO.				CONSTRUCTION SEQUENCE PLAN
REGIONAL ADM. J.OKAMOTO					5054				
	DATE	DATE	REVISION	BY					

QUANTITY TABULATION - SITE PREP

NOTE:
THE SHEET NUMBER REFERS
TO THE PLAN SHEET SHOWING THE
CONSTRUCTION FEATURE.

SH. NO	LOCATION	CLEARING AND GRUBBING HA	REMOVING CEMENT CONC. CURB M	REMOVING ASPHALT CONC. SIDEWALK M2	REMOVING CONC. BARRIER M	REMOVING BEAM GUARDRAIL M	REMOVING BEAM GUARDRAIL ANCHOR TYPE 1 EACH	REMOVING BEAM GUARDRAIL ANCHOR TYPE 3 EACH	REMOVING BEAM GUARDRAIL ANCHOR TYPE 4 EACH	REMOVING BEAM GUARDRAIL ANCHOR TYPE 7 EACH	REMOVING GUIDE POST EACH	REMOVING PAINT STRIPE M	REMOVING PAINTED TRAFFIC MARKING M2	REMOVING PLASTIC TRAFFIC MARKING M2	REMOVING RAISED PAVEMENT MARKER HUND	PLANING BITUMINOUS PAVEMENT FOR BRIDGE DECK M2		SEE GENERAL NOTES
SP-1	WETLAND MITIGATION SITE	0.5																
	L-LINE																	
SP2-18	L 38+175 TO 42+976											10328	172	159	47			1
SP-4	L 38+286 TO 38+500(CL)	0.2																
SP-4	L 38+286 TO 38+500(LT)					220		1			2							
SP-4	L 38+359 TO 38+500(RT)	0.2				150					5							
SP-5	L 38+500 TO 38+525(17RT)					30			1		5							
SP-5	L 38+500 TO 38+542(RT)	0.2																
SP-5	L 38+500 TO 38+681(LT)					190	1											
SP-5	L 38+500 TO 38+850(CL)	0.3									4							
SP-5	L 38+500 TO 38+850(LT)	0.2																
SP-5	L 38+637 TO 38+678(RT)					50	1		1									
SP-6	L 38+850 TO 39+200(CL)	0.3																
SP-6	L 38+850 TO 39+200(LT)	0.3									3							
SP-6	L 38+850 TO 39+200(RT)										3							
SP-6	L 38+940 TO 38+966(RT)					30	1		1									
SP-6	L 38+944 TO 38+967(LT)					30	1		1									
SP-6	L 39+084 TO 39+130(RT)					50	1	1								605		2
SP-6	L 39+105 TO 39+156(LT)															829		2
SP-6	L 39+130 TO 39+200(LT)																	
SP-6	L 39+156 TO 39+200(RT)					45		1										
SP-6	L 39+166 TO 39+200(RT)					40		1										
SP-7	L 39+200 TO 39+208(RT)					10			1									
SP-7	L 39+200 TO 39+425(RT)					230			1									
SP-7	L 39+200 TO 39+485(CL)	0.3																
SP-7	L 39+200 TO 39+485(LT)	0.9																
SP-7	L 39+397 TO 39+440(LT)					50	1		1									
SP-7	L 39+403 TO 39+455(LT)					60	1		1									
SP-8	L 39+485 TO 39+825(CL)	0.4																
SP-8	L 39+808 TO 39+825(RT)					20	1											
SP-8	L 39+816 TO 39+825(LT)					10			1									
	SHEET TOTAL	3.8				1215	8	4	9		22	10328	172	159	47	1434		

GENERAL NOTES:

1. REMOVING GORE STRIPE.
2. SEE PAVING DETAILS.
3. PER AGREEMENT WITH CITY OF BOTHELL, ARGEEMENT # GCA 0570

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	NICK ABEDIN	9/96		
ENTERED BY	A. CHAN	9/96		
CHECKED BY	N. ABEDIN	9/96		
PROJ. ENGR.	R. KINOSHITA	9/96		
REGION ADM.	J. OKAMATO	9/96		
		DATE	DATE	REVISION

BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405 BOTHELL TO SWAMP CREEK I/C - HOV LANES

QUANTITY TABULATION

QTSP 1

SHEET 36 OF 663 SHEETS

QUANTITY TABULATION - SITE PREP

NOTE:
THE SHEET NUMBER REFERS
TO THE PLAN SHEET SHOWING THE
CONSTRUCTION FEATURE.

SH. NO.	LOCATION	CLEARING AND GRUBBING HA	REMOVING CEMENT CONC. CURB M	REMOVING ASPHALT CONC. SIDEWALK M2	REMOVING CONC. BARRIER M	REMOVING BEAM GUARDRAIL M	REMOVING BEAM GUARDRAIL ANCHOR TYPE 1 EACH	REMOVING BEAM GUARDRAIL ANCHOR TYPE 3 EACH	REMOVING BEAM GUARDRAIL ANCHOR TYPE 4 EACH	REMOVING BEAM GUARDRAIL ANCHOR TYPE 7 EACH	REMOVING GUIDE POST EACH	REMOVING PAINT STRIPE M	REMOVING PAINTED TRAFFIC MARKING M2	REMOVING PLASTIC TRAFFIC MARKING M2	REMOVING RAISED PAVEMENT MARKER HUND	PLANING BITUMINOUS PAVEMENT FOR BRIDGE DECK M2		SEE GENERAL NOTES
	L-LINE																	
SP-9	L 39+825 TO 39+830(RT)					10			1									
SP-9	L 39+825 TO 40+150(CL)	0.3																
SP-9	L 39+825 TO 40+150(LT)	0.3																
SP-9	L 39+825 TO 40+150(RT)	0.4				200	1											
SP-9	L 39+825 TO 40+150(18RT)										4							
SP-9	L 39+825 TO 39+ 839(LT)					20	1											
SP-15	L 41+700 TO 42+025(LT&RT)	0.7																
SP-16	L 42+025 TO 42+330(LT&RT)	0.5																
SP-16	L 42+190 TO 42+330(LT)	0.2																
SP-16	L 42+325 TO 42+330(RT)					10	1											
SP16-17	L 42+278 TO 42+415(LT)					140		1	1									
SP-17	L 42+330 TO 42+396(LT&RT)	0.1																
SP-17	L 42+330 TO 42+371(LT)					50		1										
SP-17	L 42+330 TO 42+415(LT)	0.1																
SP-17	L 42+355 TO 42+459(RT)															1210		2
SP-17	L 42+394 TO 42+497(LT)															1000		2
SP-17	L 42+458 TO 42+675(LT&RT)	0.3																
SP-17	L 42+476 TO 42+527(LT)				60													
SP-17	L 42+476 TO 42+675(8LT)										10							
SP17-18	L 42+441 TO AR4 2+767					325		1	1									
SP-18	L 42+675 TO 42+867(LT&RT)	0.3																
	LL-LINE																	
SP-10	LL 40+150 TO 40+412(LT)	0.2									3							
SP-10	LL 40+150 TO 40+450(RT)	0.3																
SP-10	LL 40+359 TO 40+450(RT)					90			1									
SP-11	LL 40+450 TO 40+714(RT)					270				1								
SP-11	LL 40+450 TO 40+750(RT)	0.2																
SP-12	LL 40+750 TO 41+065(RT)	0.4																
SP-13	LL 41+065 TO 41+400(RT)	0.4																
SP-14	LL 41+400 TO 41+700(RT)	0.3									4							
	SHEET TOTAL	5			60	1115	3	3	4	1	21					2210		

GENERAL NOTES:

1. REMOVING GORE STRIPE.
2. SEE PAVING DETAILS.
3. PER AGREEMENT WITH CITY OF BOTHELL, ARGEEMENT # GCA 0570

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	NICK ABEDIN	9/96		
ENTERED BY	A. CHAN	9/96		
CHECKED BY	N. ABEDIN	9/96		
PROJ. ENGR.	R. KINOSHITA	9/96		
REGION ADM.	J. OKAMATO	9/96		
		DATE	DATE	REVISION

BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405 BOTHELL TO SWAMP CREEK I/C - HOV LANES

QUANTITY TABULATION

QTSP 2

SHEET 37 OF 663 SHEETS

QUANTITY TABULATION - SITE PREP

NOTE:
THE SHEET NUMBER REFERS
TO THE PLAN SHEET SHOWING THE
CONSTRUCTION FEATURE.

SH. NO	LOCATION	CLEARING AND GRUBBING HA	REMOVING CEMENT CONC. CURB M	REMOVING ASPHALT CONC. SIDEWALK M2	REMOVING CONC. BARRIER M	REMOVING BEAM GUARDRAIL M	REMOVING BEAM GUARDRAIL ANCHOR TYPE 1 EACH	REMOVING BEAM GUARDRAIL ANCHOR TYPE 3 EACH	REMOVING BEAM GUARDRAIL ANCHOR TYPE 4 EACH	REMOVING BEAM GUARDRAIL ANCHOR TYPE 7 EACH	REMOVING GUIDE POST EACH	REMOVING PAINT STRIPE M	REMOVING PAINTED TRAFFIC MARKING M2	REMOVING PLASTIC TRAFFIC MARKING M2	REMOVING RAISED PAVEMENT MARKER HUND	PLANING BITUMINOUS PAVEMENT FOR BRIDGE DECK M2		SEE GENERAL NOTES
	LR-LINE																	
SP-10	LR 40+150 TO 40+225(RT)	0.2																
SP-10	LR 40+150 TO 40+275(RT)					130					1							
SP-11	LR 40+450 TO 40+580(4LT)										2							
SP-11	LR 40+450 TO 40+750(LT)	0.3																
SP-12	LR 40+750 TO 41+065(LT)	0.2																
SP-12	LR 40+845 TO 40+905(RT)	0.1																
SP-12	LR 40+845 TO 40+857(RT)					20			1									
SP-13	LR 41+065 TO 41+400(LT)	0.2																
SP-13	LR 41+105 TO 41+400										3							
SP-13	LR 41+144 TO 41+215(RT)	0.1																
SP-14	LR 41+400 TO 41+700(LT)	0.3									3							
	W-N RAMP																	
SP-3	8+286 TO 8+328(CL)	0.2																
SP-3	8+286 TO 8+332										3							
SP-4	8+328 TO 8+500	0.2																
SP-4	8+332 TO 8+500(RT)										11							
SP-4	8+352 TO 8+500(LT)										10							
SP-5	8+500 TO NBCD 8+850	0.4									20							
	S-W RAMP																	
SP-5	8+675 TO L 38+850										10							
	AR4																	
SP-18	2+780 TO 2+800(RT)	0.1																
	SHEET TOTAL	2.3				150			1		63							

GENERAL NOTES:

1. REMOVING GORE STRIPE.
2. SEE PAVING DETAILS.
3. PER AGREEMENT WITH CITY OF BOTHELL, ARGEEMENT # GCA 0570

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	NICK ABEDIN	9/96				REGION NO. 10	STATE WASH	FED. AID. PROJ. NO.	ENVIRONMENTAL & ENGINEERING SERVICE CENTER
ENTERED BY	A. CHAN	9/96				JOB NUMBER 96W035			
CHECKED BY	N. ABEDIN	9/96				CONTRACT NO. 5054			
PROJ. ENGR.	R. KINOSHITA	9/96							
REGION ADM.	J. OKAMATO	9/96							
		DATE	DATE	REVISION	BY				

Washington State Department of Transportation

SR 405 BOTHELL TO SWAMP CREEK I/C - HOV LANES

QUANTITY TABULATION

QTSP 3

SHEET 38 OF 663 SHEETS

QUANTITY TABULATION - SITE PREP

NOTE:
THE SHEET NUMBER REFERS TO THE PLAN SHEET SHOWING THE CONSTRUCTION FEATURE.

SH. NO	LOCATION	CLEARING AND GRUBBING HA	REMOVING CEMENT CONC. CURB M	REMOVING ASPHALT CONC. SIDEWALK M2	REMOVING CONC. BARRIER M	REMOVING BEAM GUARDRAIL M	REMOVING BEAM GUARDRAIL ANCHOR TYPE 1 EACH	REMOVING BEAM GUARDRAIL ANCHOR TYPE 3 EACH	REMOVING BEAM GUARDRAIL ANCHOR TYPE 4 EACH	REMOVING BEAM GUARDRAIL ANCHOR TYPE 7 EACH	REMOVING GUIDE POST EACH	REMOVING PAINT STRIPE M	REMOVING PAINTED TRAFFIC MARKING M2	REMOVING PLASTIC TRAFFIC MARKING M2	REMOVING RAISED PAVEMENT MARKER HUND	PLANING BITUMINOUS PAVEMENT FOR BRIDGE DECK M2		SEE GENERAL NOTES
	NBCD																	
SP-5	8+718(RT) TO 8+771(LT)					60	1		1									
SP-6	8+850 TO 9+200	0.3																
SP-6	9+038 TO 9+150(RT)					120	1	1										
SP-8	9+716 TO 9+825(3LT)																	
SP-10	9+695(1.68LT)																	
	195TH-S																	
SP-6	9+139 TO 9+185.5(LT)					50	1	1										
SP-7	9+200 TO 9+261																	
SP-7	9+200 TO 9+485	0.17																
SP-7	9+260 TO 9+400 (LT&RT)										18							
SP-7	9+300 TO 9+357	0.03																3
SP-7	9+405 TO NE-195TH 0+980		45	110														
	S-195TH																	
SP-8	9+485 TO 9+825	0.5																
	195TH-N																	
SP-7	9+430 TO 9+485										3							
SP-8	9+440 TO 9+497	0.03																3
SP-8	9+485 TO 9+825	0.47									10							
	N-195TH																	
SP-7	9+200 TO 9+314	0.1																
SP-7	9+453 TO 9+485	0.1																
	NE-195TH																	
SP-7	1+200 TO 195TH-N 9+485	0.1																
	SHEET TOTAL	1.8	45	110		230	3	2	1		31							
	PROJECT TOTAL	12.9	45	110	60	2710	14	9	15	1	137	10328	172	159	47	3644		

GENERAL NOTES:

1. REMOVING GORE STRIPE.
2. SEE PAVING DETAILS.
3. PER AGREEMENT WITH CITY OF BOTHELL, ARGEEMENT # GCA 0570

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	NICK ABEDIN	9/96				
ENTERED BY	A. CHAN	9/96				
CHECKED BY	N. ABEDIN	9/96				
PROJ. ENGR.	R. KINOSHITA	9/96				
REGION ADM.	J. OKAMATO	9/96				
		DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405 BOTHELL TO SWAMP CREEK I/C - HOV LANES

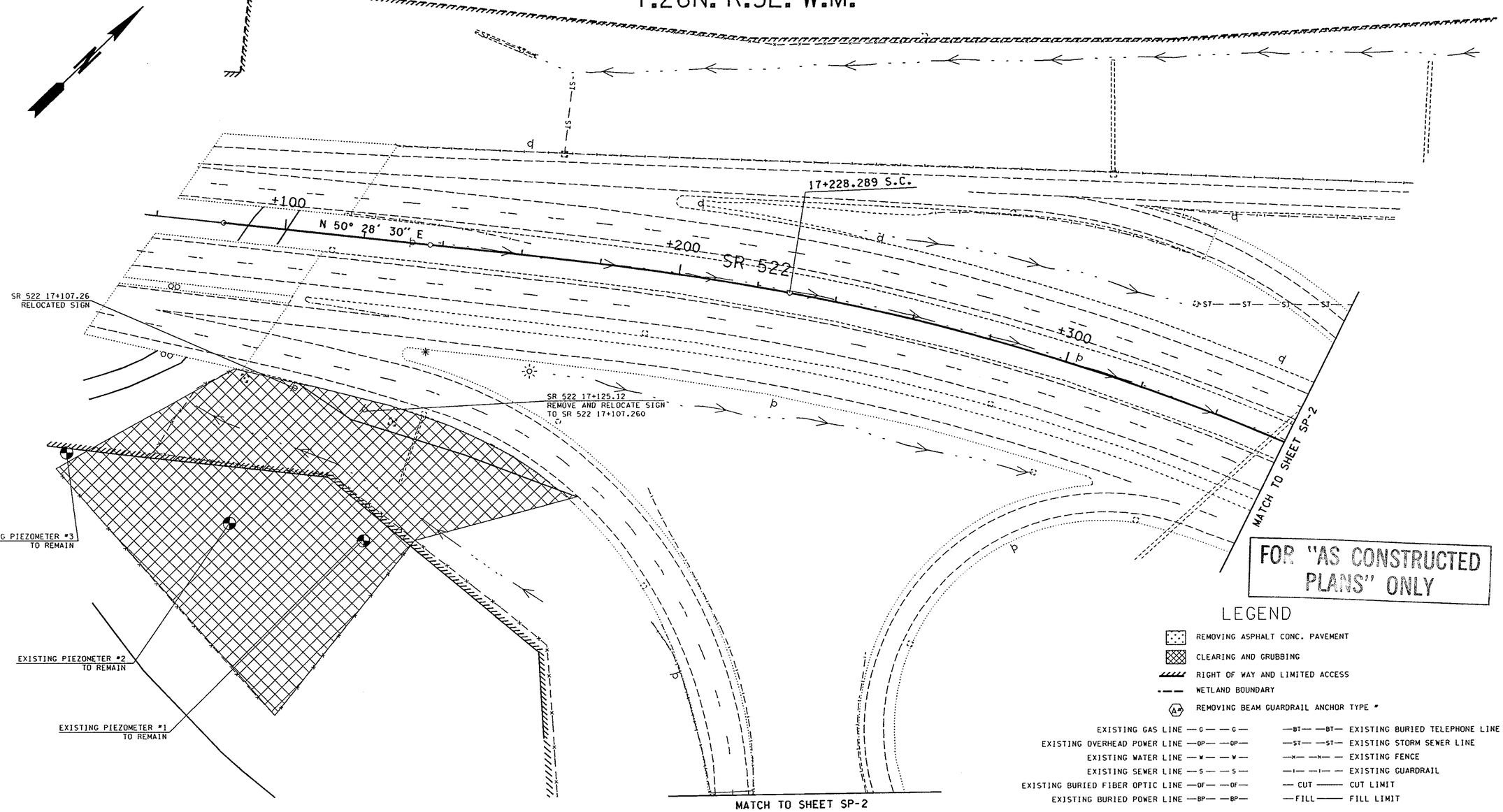
QUANTITY TABULATION

QTSP 4

SHEET 39 OF 663 SHEETS

PLOT3 09 NOV 96 s:\412347\2095\95prep1.dgn $(username)
Sat Nov 09 13:50:15 1996 D412347 T:\412347\A\30F1U-3.PLT

T.26N. R.5E. W.M.



FOR "AS CONSTRUCTED PLANS" ONLY

LEGEND

- REMOVING ASPHALT CONC. PAVEMENT
- CLEARING AND GRUBBING
- RIGHT OF WAY AND LIMITED ACCESS
- WETLAND BOUNDARY
- REMOVING BEAM GUARDRAIL ANCHOR TYPE *

EXISTING GAS LINE —G— —G—	—BT— —BT— EXISTING BURIED TELEPHONE LINE
EXISTING OVERHEAD POWER LINE —OP— —OP—	—ST— —ST— EXISTING STORM SEWER LINE
EXISTING WATER LINE —W— —W—	—X— —X— — EXISTING FENCE
EXISTING SEWER LINE —S— —S—	—I— —I— — EXISTING GUARDRAIL
EXISTING BURIED FIBER OPTIC LINE —OF— —OF—	— CUT ——— CUT LIMIT
EXISTING BURIED POWER LINE —BP— —BP—	—FILL——— FILL LIMIT

* INCIDENTAL TO WETLAND MITIGATION EXCAVATION

0 10 20 30 40 50
SCALE IN METERS

ENVIRONMENTAL NOTICE
ALL EXISTING VEGETATION DESIGNATED TO REMAIN SHALL BE SAVED AND PROTECTED IN ACCORDANCE WITH SECTION 1-07.16(2) AND SECTION 2-01.3(1) ITEM 9 OF THE SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

DESIGNED BY	N. ABEDIN	6/12/96			
ENTERED BY	B. SAVILLE	6/12/96			
CHECKED BY	N. ABEDIN	6/12/96			
PROJ. ENGR.	R.KINOSHITA	6/12/96			
REGIONAL ADM.	J. OKAMOTO	6/12/96			
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
96W035		
CONTRACT NO.		
5054		

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

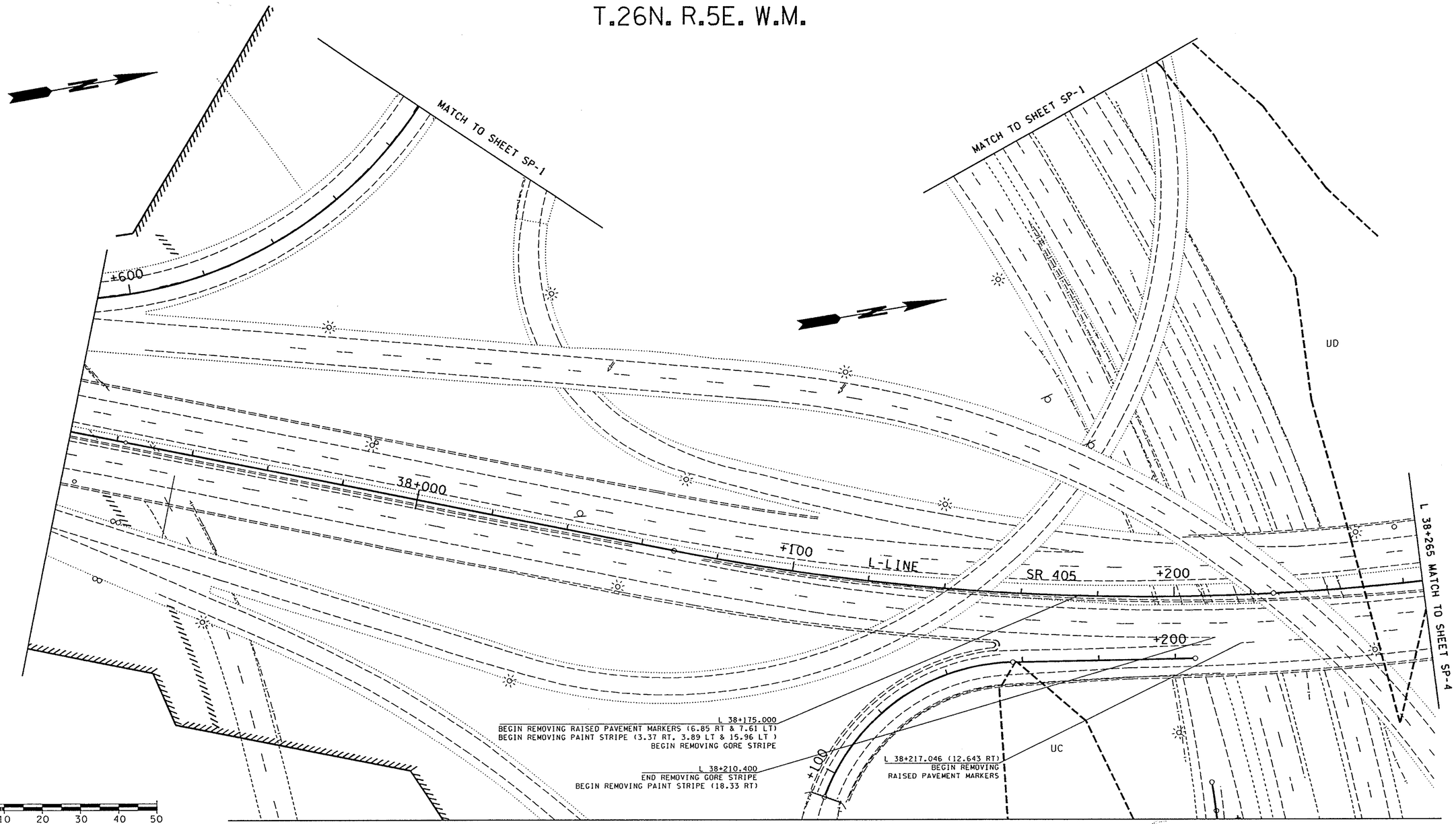
SITE PREP & EXIST. UTILITIES

SP-1

SHEET 40 OF 663 SHEETS

PLOT4
09 NOV 96 s:\412347\12095\95prep1.dgn $(username)
Sat Nov 09 13:52:23 1996 D412347 T:\412347\A\30F1U-4.PLT

T.26N. R.5E. W.M.



0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

ENVIRONMENTAL NOTICE
ALL EXISTING VEGETATION DESIGNATED TO REMAIN SHALL BE SAVED AND PROTECTED IN ACCORDANCE WITH SECTION 1-07.16(2) AND SECTION 2-01.3(1) ITEM 9 OF THE SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	N. ABEDIN	6/12/96			
ENTERED BY	B. SAVILLE	6/12/96			
CHECKED BY	N. ABEDIN	6/12/96			
PROJ. ENGR.	R.KINOSHITA	6/12/96			
REGIONAL ADM.	J. OKAMOTO	6/12/96			
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER	96W035	
CONTRACT NO.	5054	

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

SITE PREP & EXIST. UTILITIES

SP-2

SHEET 41 OF 663 SHEETS

PLOT: \412347\A\30F1U-5.PLT
PLOTS 09 NOV 96 s:\412347\12095\95prep1.dgn $(username)
Sat Nov 09 13:52:37 1996 D412347 T:\412347\A\30F1U-5.PLT

T.26N. R.5E. W.M.

MATCH TO SHEET SP-2

MATCH TO SHEET SP-4

UC

UE

UF

8+000

+600

+500

+400

+300

+200

+100

SR 522

W-N RAMP

A-S

W-N 8+286.000 (2.320 RT)
BEGIN SAWCUT ASPHALT CONC. PAVEMENT
BEGIN REMOVING ASPHALT CONC. PAVEMENT

LEGEND

- REMOVING ASPHALT CONC. PAVEMENT
- CLEARING AND GRUBBING
- RIGHT OF WAY AND LIMITED ACCESS
- WETLAND BOUNDARY
- REMOVING BEAM GUARDRAIL ANCHOR TYPE #

EXISTING GAS LINE —G— —G—	—BT— —BT— EXISTING BURIED TELEPHONE LINE
EXISTING OVERHEAD POWER LINE —OP— —OP—	—ST— —ST— EXISTING STORM SEWER LINE
EXISTING WATER LINE —W— —W—	—X— —X— EXISTING FENCE
EXISTING SEWER LINE —S— —S—	—I— —I— EXISTING GUARDRAIL
EXISTING BURIED FIBER OPTIC LINE —OF— —OF—	— CUT — CUT LIMIT
EXISTING BURIED POWER LINE —BP— —BP—	—FILL— FILL LIMIT

ENVIRONMENTAL NOTICE
ALL EXISTING VEGETATION DESIGNATED TO REMAIN SHALL BE SAVED AND PROTECTED IN ACCORDANCE WITH SECTION 1-07.16(2) AND SECTION 2-01.3(1) ITEM 9 OF THE SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS

FOR "AS CONSTRUCTED PLANS" ONLY

0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

DESIGNED BY N. ABEDIN	6/12/96				
ENTERED BY B. SAVILLE	6/12/96				
CHECKED BY N. ABEDIN	6/12/96				
PROJ. ENGR. R.KINOSHITA	6/12/96				
REGIONAL ADM. J. OKAMOTO	6/12/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

SITE PREP & EXIST. UTILITIES

SP-3

SHEET 42 OF 663 SHEETS

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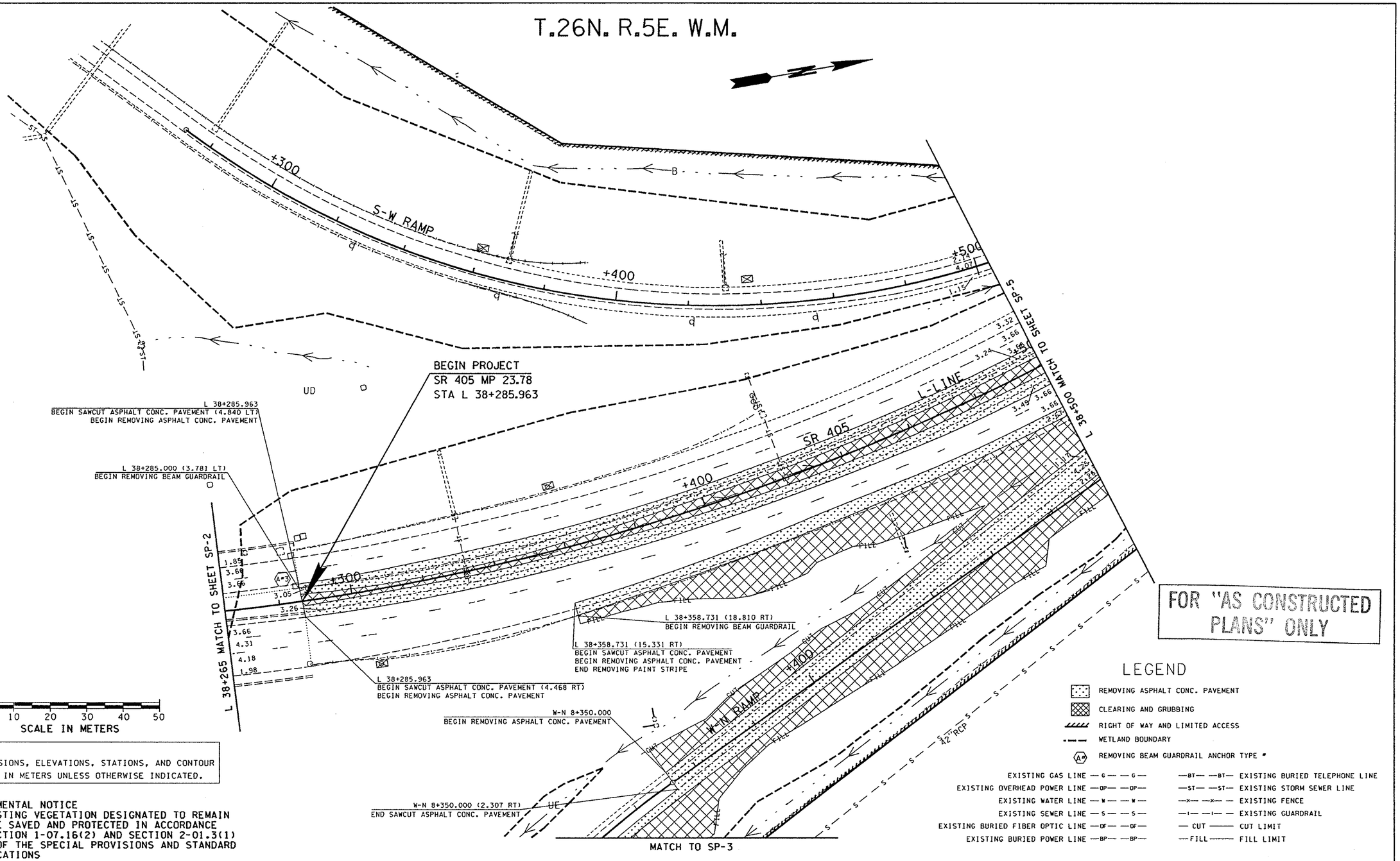
T.26N. R.5E. W.M.



0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

ENVIRONMENTAL NOTICE
ALL EXISTING VEGETATION DESIGNATED TO REMAIN SHALL BE SAVED AND PROTECTED IN ACCORDANCE WITH SECTION 1-07.16(2) AND SECTION 2-01.3(1) ITEM 9 OF THE SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS

FOR "AS CONSTRUCTED PLANS" ONLY

LEGEND

- REMOVING ASPHALT CONC. PAVEMENT
- CLEARING AND GRUBBING
- RIGHT OF WAY AND LIMITED ACCESS
- WETLAND BOUNDARY
- REMOVING BEAM GUARDRAIL ANCHOR TYPE *

EXISTING GAS LINE —G— —G—	—BT— —BT— EXISTING BURIED TELEPHONE LINE
EXISTING OVERHEAD POWER LINE —OP— —OP—	—ST— —ST— EXISTING STORM SEWER LINE
EXISTING WATER LINE —W— —W—	—X— —X— — EXISTING FENCE
EXISTING SEWER LINE —S— —S—	—I— —I— — EXISTING GUARDRAIL
EXISTING BURIED FIBER OPTIC LINE —OF— —OF—	— CUT ——— CUT LIMIT
EXISTING BURIED POWER LINE —BP— —BP—	— FILL ——— FILL LIMIT

DESIGNED BY	N. ABEDIN	6/12/96			
ENTERED BY	B. SAVILLE	6/12/96			
CHECKED BY	N. ABEDIN	6/12/96			
PROJ. ENGR.	R.KINOSHITA	6/12/96			
REGIONAL ADM.	J. OKAMOTO	6/12/96			
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

SITE PREP & EXIST. UTILITIES

SP-4

SHEET 43 OF 663 SHEETS

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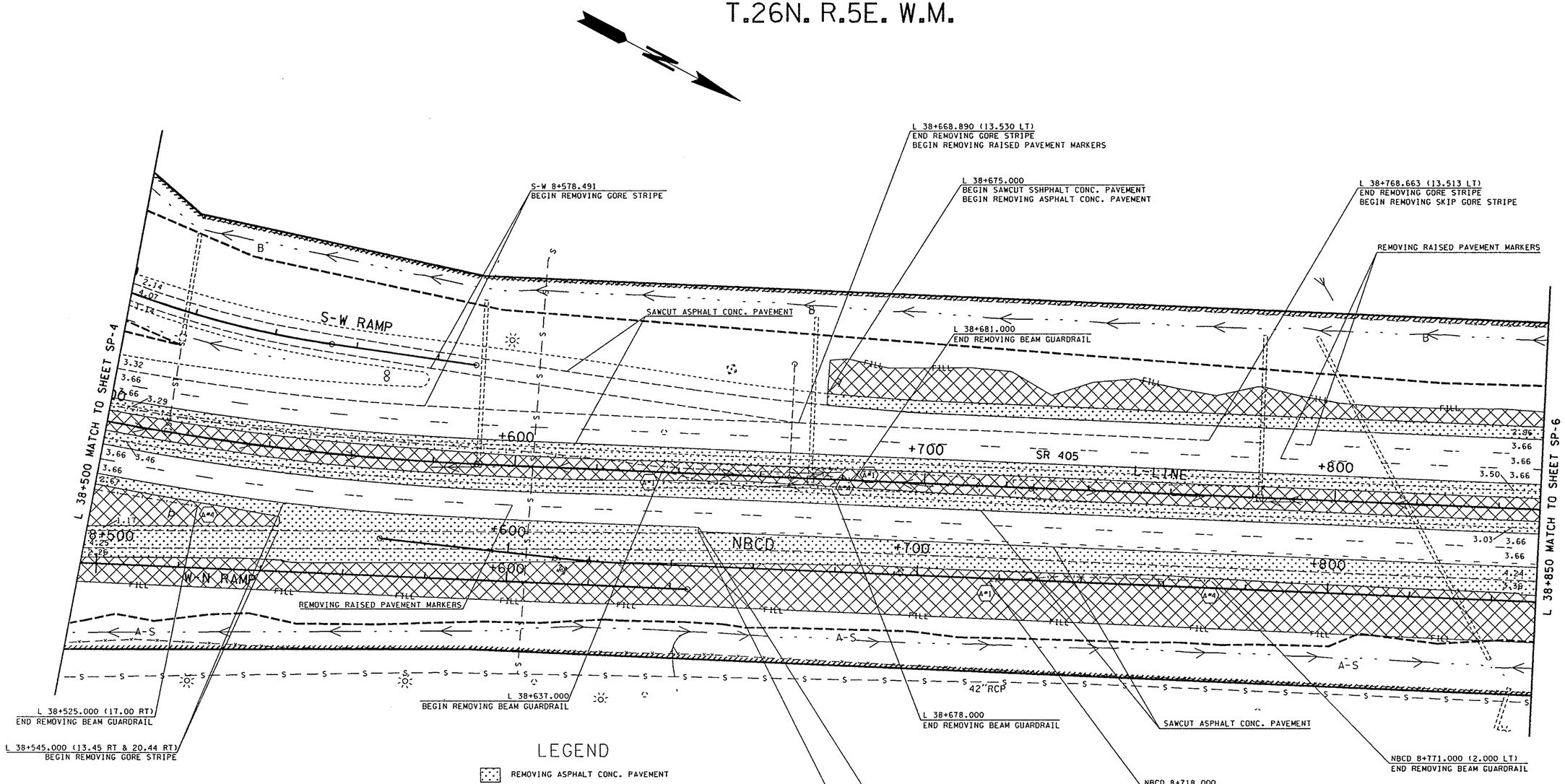
T.26N. R.5E. W.M.



LEGEND

- REMOVING ASPHALT CONC. PAVEMENT
- CLEARING AND GRUBBING
- RIGHT OF WAY AND LIMITED ACCESS
- WETLAND BOUNDARY
- REMOVING BEAM GUARDRAIL ANCHOR TYPE *

EXISTING GAS LINE —G— —G—
EXISTING OVERHEAD POWER LINE —OP— —OP—
EXISTING WATER LINE —W— —W—
EXISTING SEWER LINE —S— —S—
EXISTING BURIED FIBER OPTIC LINE —OF— —OF—
EXISTING BURIED POWER LINE —BP— —BP—
—BT— —BT— EXISTING BURIED TELEPHONE LINE
—ST— —ST— EXISTING STORM SEWER LINE
—x— —x— EXISTING FENCE
—I— —I— EXISTING GUARDRAIL
— CUT —— CUT LIMIT
—FILL—— FILL LIMIT

0 10 20 30 40 50
SCALE IN METERS

NOTE:
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ENVIRONMENTAL NOTICE
ALL EXISTING VEGETATION DESIGNATED TO REMAIN SHALL BE SAVED AND PROTECTED IN ACCORDANCE WITH SECTION 1-07.16(2) AND SECTION 2-01.3(1) ITEM 9 OF THE SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS

FOR "AS CONSTRUCTED PLANS" ONLY

CURVE DATA					
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
LL 38+345.114	46°43'59"L	640.081	276.544	507.727	
S-W 8+430.996	66°16'19"L	243.840	159.176	266.580	
NBCD 8+619.934	03°52'15"L	243.840	8.240	16.470	

DESIGNED BY	N. ABEDIN	6/12/96			
ENTERED BY	B. SAVILLE	6/12/96			
CHECKED BY	N. ABEDIN	6/12/96			
PROJ. ENGR.	R.KINOSHITA	6/12/96			
REGIONADMDM.	J. OKAMOTO	6/12/96			
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

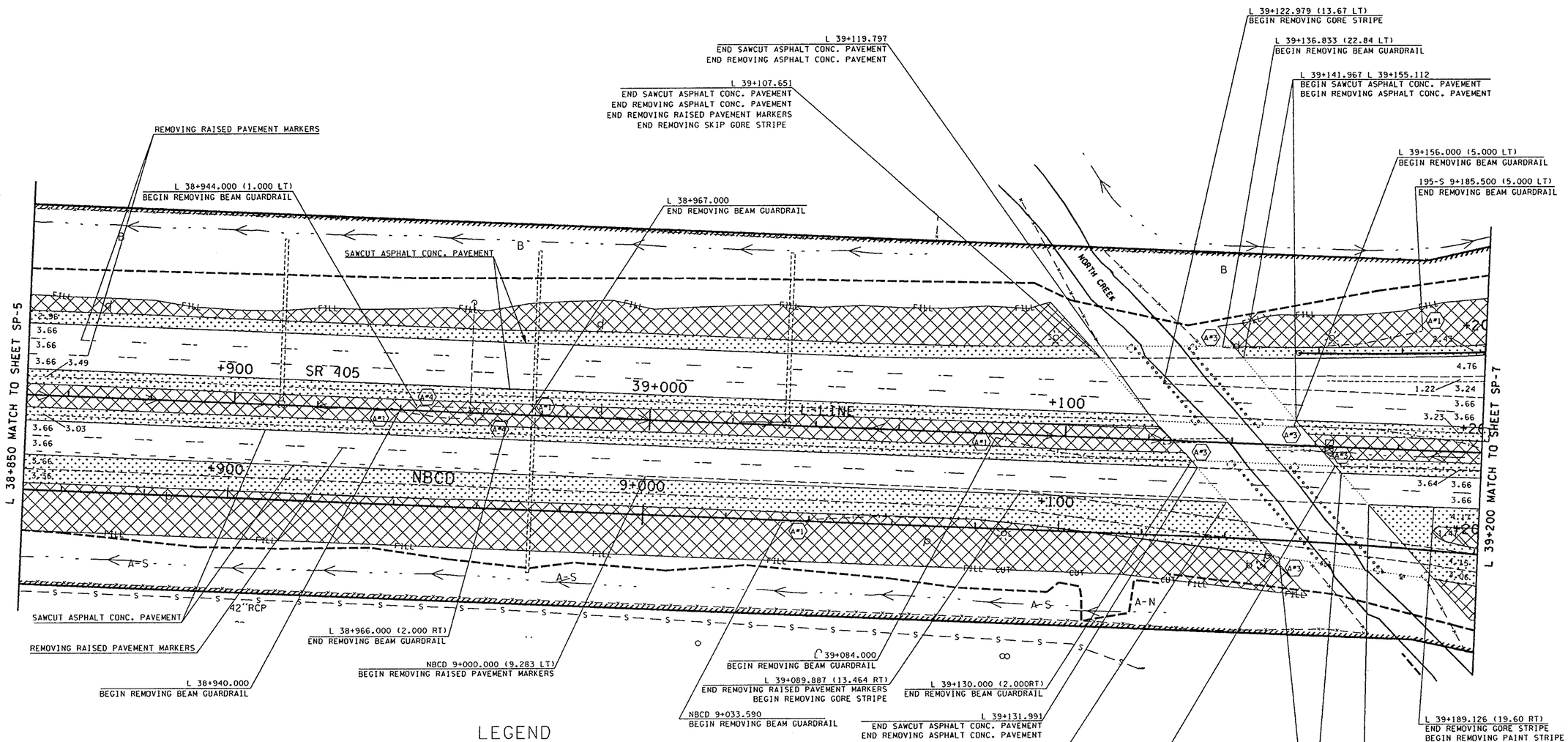
SITE PREP & EXIST. UTILITIES

SP-5

SHEET 44 OF 663 SHEETS

PLOT8 09 NOV 96 s:\412347\1209S\95prepl.dgn $(username)
Sat Nov 09 13:53:26 1996 D412347 T:\412347\A\30F1U-8.PLT

T.26N. R.5E. W.M.



FOR "AS CONSTRUCTED PLANS" ONLY

LEGEND

- REMOVING ASPHALT CONC. PAVEMENT
- CLEARING AND GRUBBING
- RIGHT OF WAY AND LIMITED ACCESS
- WETLAND BOUNDARY
- REMOVING BEAM GUARDRAIL ANCHOR TYPE #

EXISTING GAS LINE —G— —G—
EXISTING OVERHEAD POWER LINE —OP— —OP—
EXISTING WATER LINE —W— —W—
EXISTING SEWER LINE —S— —S—
EXISTING BURIED FIBER OPTIC LINE —OF— —OF—
EXISTING BURIED POWER LINE —BP— —BP—
—BT— —BT— EXISTING BURIED TELEPHONE LINE
—ST— —ST— EXISTING STORM SEWER LINE
—X— —X— EXISTING FENCE
—I— —I— EXISTING GUARDRAIL
— CUT — CUT LIMIT
—FILL— FILL LIMIT

0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

ENVIRONMENTAL NOTICE
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CURVE DATA

P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
NBCD 9+334.525	18°30'00"R	1219.202	198.560	391.955	
195TH-S 9+203.799	06°06'28"L	910.135	48.557	96.975	

DESIGNED BY N. ABEDIN	6/12/96				
ENTERED BY B. SAVILLE	6/12/96				
CHECKED BY N. ABEDIN	6/12/96				
PROJ. ENGR. R.KINOSHITA	6/12/96				
REGIONAL ADM. J. OKAMOTO	6/12/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER	96W035	
CONTRACT NO.	5054	

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

SITE PREP & EXIST. UTILITIES

SP-6

SHEET 45 OF 663 SHEETS

PLOT9 09 NOV 96 s:\412347\12095\95prepl.dgn $(username)
T:\412347\A\30F1U-9.PLT
Sat Nov 09 13:55:35 1996 D412347

T.26N. R.5E. W.M.

LEGEND

- REMOVING ASPHALT CONC. PAVEMENT
- CLEARING AND GRUBBING
- RIGHT OF WAY AND LIMITED ACCESS
- WETLAND BOUNDARY
- REMOVING BEAM GUARDRAIL ANCHOR TYPE #

EXISTING GAS LINE —G— —G—
EXISTING OVERHEAD POWER LINE —OP— —OP—
EXISTING WATER LINE —W— —W—
EXISTING SEWER LINE —S— —S—
EXISTING BURIED FIBER OPTIC LINE —OF— —OF—
EXISTING BURIED POWER LINE —BP— —BP—
—BT— —BT— EXISTING BURIED TELEPHONE LINE
—ST— —ST— EXISTING STORM SEWER LINE
—X— —X— EXISTING FENCE
—I— —I— EXISTING GUARDRAIL
— CUT — CUT LIMIT
—FILL— FILL LIMIT

0 10 20 30 40 50
SCALE IN METERS

NE 195TH 0+979.818 (6.946 RT)
END REMOVING CEMENT CONC. CURB
END REMOVING ASPHALT CONC. SIDEWALK
END SAWCUT ASPHALT CONC. PAVEMENT

16" 30" DIA. INSIDE CASING

195TH-S 9+300.000
END SAWCUT ASPHALT CONC. PAVEMENT
EMD REMOVING ASPHALT CONC. PAVEMENT

195TH-S 9+300.000
BEGIN REMOVING PAINT STRIPE

L 39+200.000
END REMOVING GORE STRIPE
BEGIN REMOVING PAINT STRIPE

195TH-S 9+405.000
END REMOVING PAINT STRIPE

195TH-S 9+404.590 (6.426 LT)
BEGIN REMOVING CEMENT CONC. CURB
BEGIN REMOVING ASPHALT CONC. SIDEWALK
BEGIN SAWCUT ASPHALT CONC. PAVEMENT

SAWCUT ASPHALT CONC. PAVEMENT

L 39+403.000 (16.000 LT)
BEGIN REMOVING BEAM GUARDRAIL

L 39+397.000 (4.000 LT)
BEGIN REMOVING BEAM GUARDRAIL

REMOVING RAISED PAVEMENT MARKERS

S-195TH 9+470.000
SAWCUT ASPHALT CONC. PAVEMENT
BEGIN REMOVING ASPHALT CONC. PAVEMENT

L 39+455.000 (18.000 LT)
END REMOVING BEAM GUARDRAIL

L 39+440.000 (1.000 LT)
END REMOVING BEAM GUARDRAIL

L 39+485 MATCH TO SHEET SP-8

L 39+200 MATCH TO SHEET SP-6

L 39+425.000 (4.000 RT)
END REMOVING BEAM GUARDRAIL

N-195TH 9+314.906 (7.318 RT)
END SAWCUT ASPHALT CONC. PAVEMENT
END REMOVING ASPHALT CONC. PAVEMENT

L 39+208.000 (1.000 RT)
END REMOVING BEAM GUARDRAIL

195TH-N 9+453.121
BEGIN REMOVING ASPHALT CONC. PAVEMENT

115,000 V
12,500 V
(PSPL)

S-195TH
NE 195TH ST.
SR 405
N-195TH
195TH-N
NBCD
NORTH CREEK
SP-6
SP-8
℄ LINE

CURVE DATA					
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
S-195TH 9+441.833	23°43'29"R	152.400	32.011	62.655	
N-195TH 9+275.713	14°49'04"R	304.801	39.635	78.608	

CURVE DATA					
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
195TH-S 9+261.527	08°06'47"L	130.455	9.252	18.457	
L 39+337.472	18°30'00"R	609.601	99.280	195.978	
195TH-S 9+371.660	24°41'31"R	125.578	27.486	53.701	

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FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	N. ABEDIN	6/12/96				
ENTERED BY	B. SAVILLE	6/12/96				
CHECKED BY	N. ABEDIN	6/12/96				
PROJ. ENGR.	R.KINOSHITA	6/12/96				
REGIONAL ADM.	J. OKAMOTO	6/12/96				
		DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 505-4

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

SITE PREP & EXIST. UTILITIES

SP-7

SHEET 46 OF 663 SHEETS

PLOT10 09 NOV 96 s:\412347\1205\95prepl.dgn $(username)
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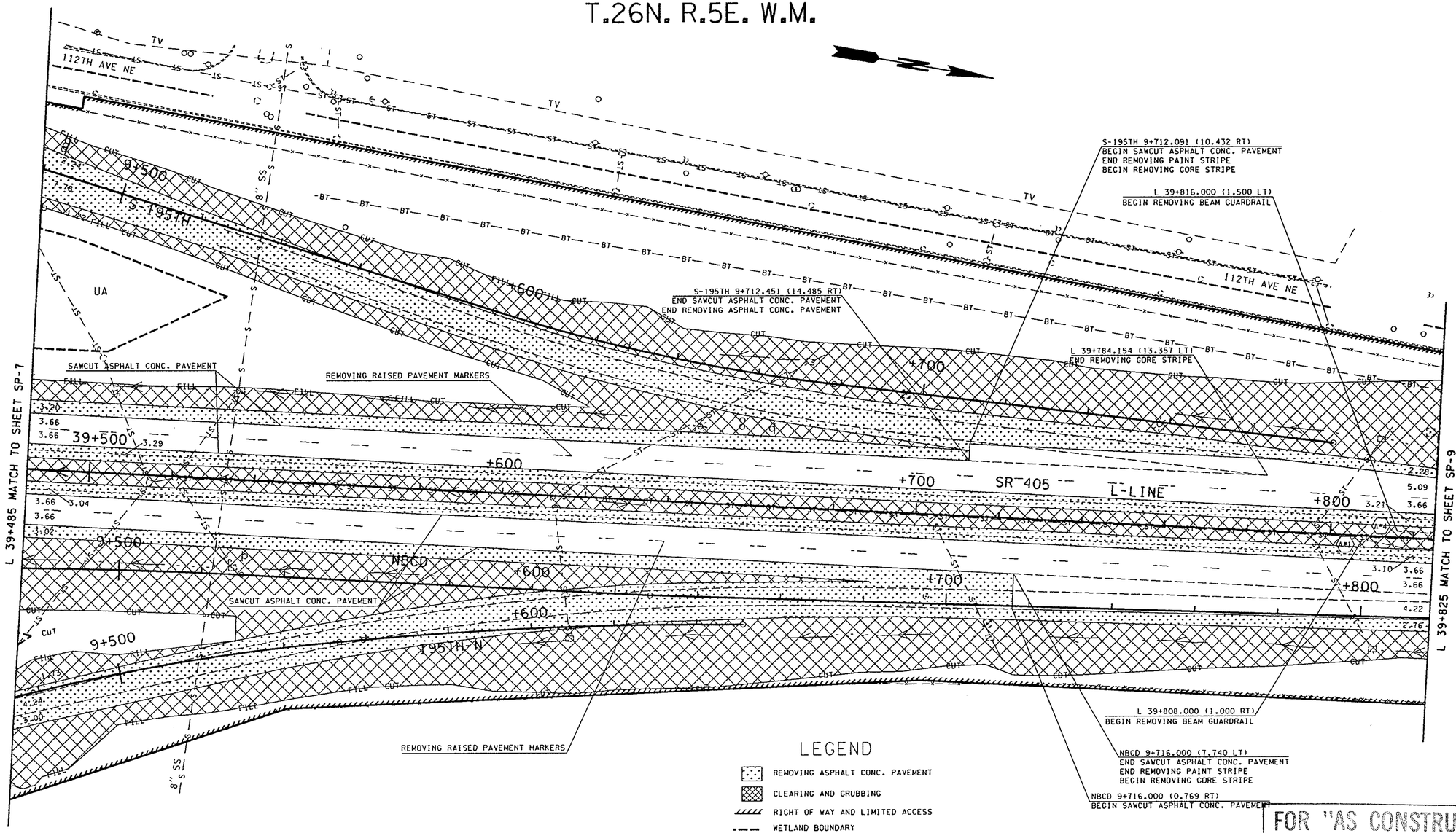
Sat Nov 09 13:55:55 1996 D412347

T.26N. R.5E. W.M.



LEGEND

- REMOVING ASPHALT CONC. PAVEMENT
- CLEARING AND GRUBBING
- RIGHT OF WAY AND LIMITED ACCESS
- WETLAND BOUNDARY
- REMOVING BEAM GUARDRAIL ANCHOR TYPE #

EXISTING GAS LINE —G— —G—
EXISTING OVERHEAD POWER LINE —OP— —OP—
EXISTING WATER LINE —W— —W—
EXISTING SEWER LINE —S— —S—
EXISTING BURIED FIBER OPTIC LINE —OF— —OF—
EXISTING BURIED POWER LINE —BP— —BP—
—BT— —BT— EXISTING BURIED TELEPHONE LINE
—ST— —ST— EXISTING STORM SEWER LINE
—X— —X— EXISTING FENCE
—I— —I— EXISTING GUARDRAIL
— CUT ——— CUT LIMIT
—FILL——— FILL LIMIT

0 10 20 30 40 50
SCALE IN METERS

NOTE:
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CURVE DATA

P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
S-195TH 9+636.481	10°54'12"L	441.961	42.180	83.978	
195TH-N 9+516.116	08°47'36"R	487.681	37.496	74.772	
195TH-N 9+605.321	05°45'34"R	914.402	45.977	91.878	

FOR "AS CONSTRUCTED PLANS" ONLY

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DESIGNED BY	N. ABEDIN	6/12/96			
ENTERED BY	B. SAVILLE	6/12/96			
CHECKED BY	N. ABEDIN	6/12/96			
PROJ. ENGR.	R.KINOSHITA	6/12/96			
REGIONAL ADM.	J. OKAMOTO	6/12/96			
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
96W035		
CONTRACT NO.		
5054		

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

SITE PREP & EXIST. UTILITIES

SP-8

SHEET 47 OF 663 SHEETS

PLOT: \412347\A\30F1U-11.PLT
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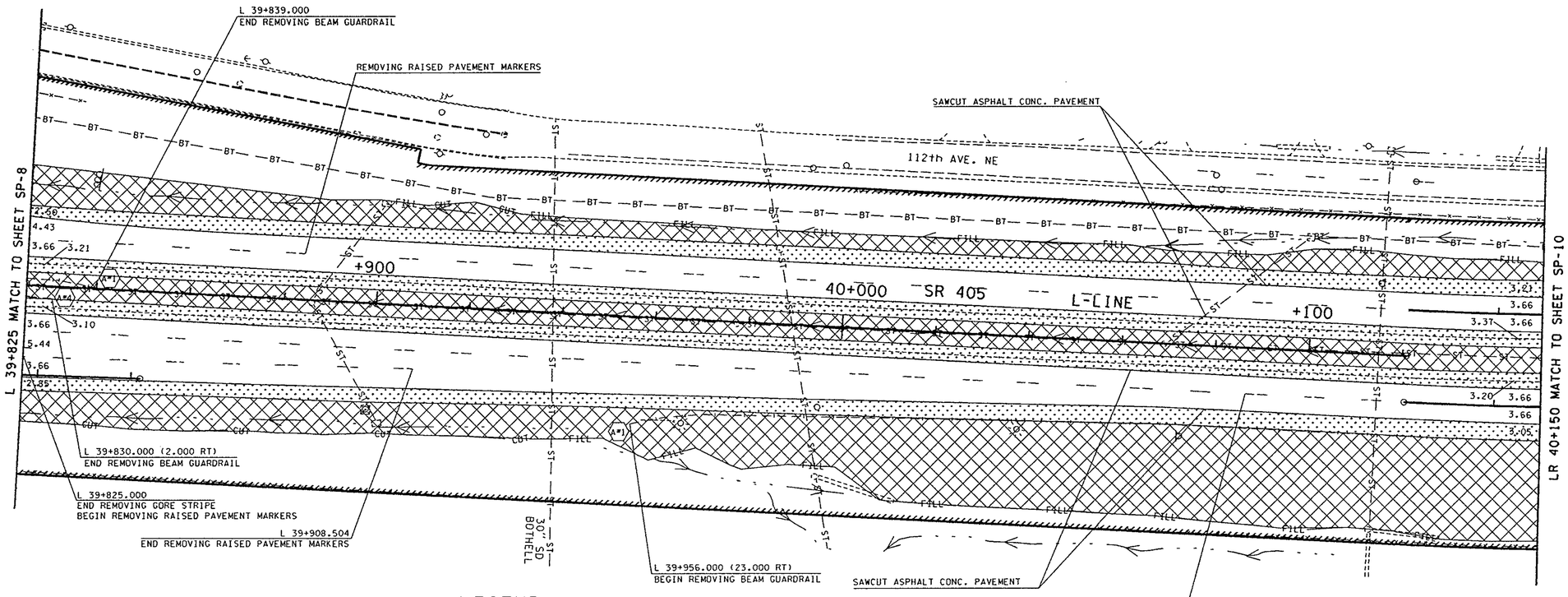
T.26N. R.5E. W.M.



LEGEND

- REMOVING ASPHALT CONC. PAVEMENT
- CLEARING AND GRUBBING
- RIGHT OF WAY AND LIMITED ACCESS
- WETLAND BOUNDARY
- REMOVING BEAM GUARDRAIL ANCHOR TYPE *

EXISTING GAS LINE —G— —G—
EXISTING OVERHEAD POWER LINE —OP— —OP—
EXISTING WATER LINE —W— —W—
EXISTING SEWER LINE —S— —S—
EXISTING BURIED FIBER OPTIC LINE —OF— —OF—
EXISTING BURIED POWER LINE —BP— —BP—
—BT— —BT— EXISTING BURIED TELEPHONE LINE
—ST— —ST— EXISTING STORM SEWER LINE
—X— —X— EXISTING FENCE
—!— —!— EXISTING GUARDRAIL
— CUT — CUT LIMIT
— FILL — FILL LIMIT

0 10 20 30 40 50
SCALE IN METERS

NOTE:
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ENVIRONMENTAL NOTICE
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FOR "AS CONSTRUCTED PLANS" ONLY

CURVE DATA

P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
LR 40+206.143	10°00'00"L	975.362	85.333	170.017	
LL 40+241.191	14°59'59"L	914.402	120.381	238.702	

DESIGNED BY	N. ABEDIN	6/12/96		
ENTERED BY	B. SAVILLE	6/12/96		
CHECKED BY	N. ABEDIN	6/12/96		
PROJ. ENGR.	R.KINOSHITA	6/12/96		
REGIONAL ADM.	J. OKAMOTO	6/12/96		
		DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

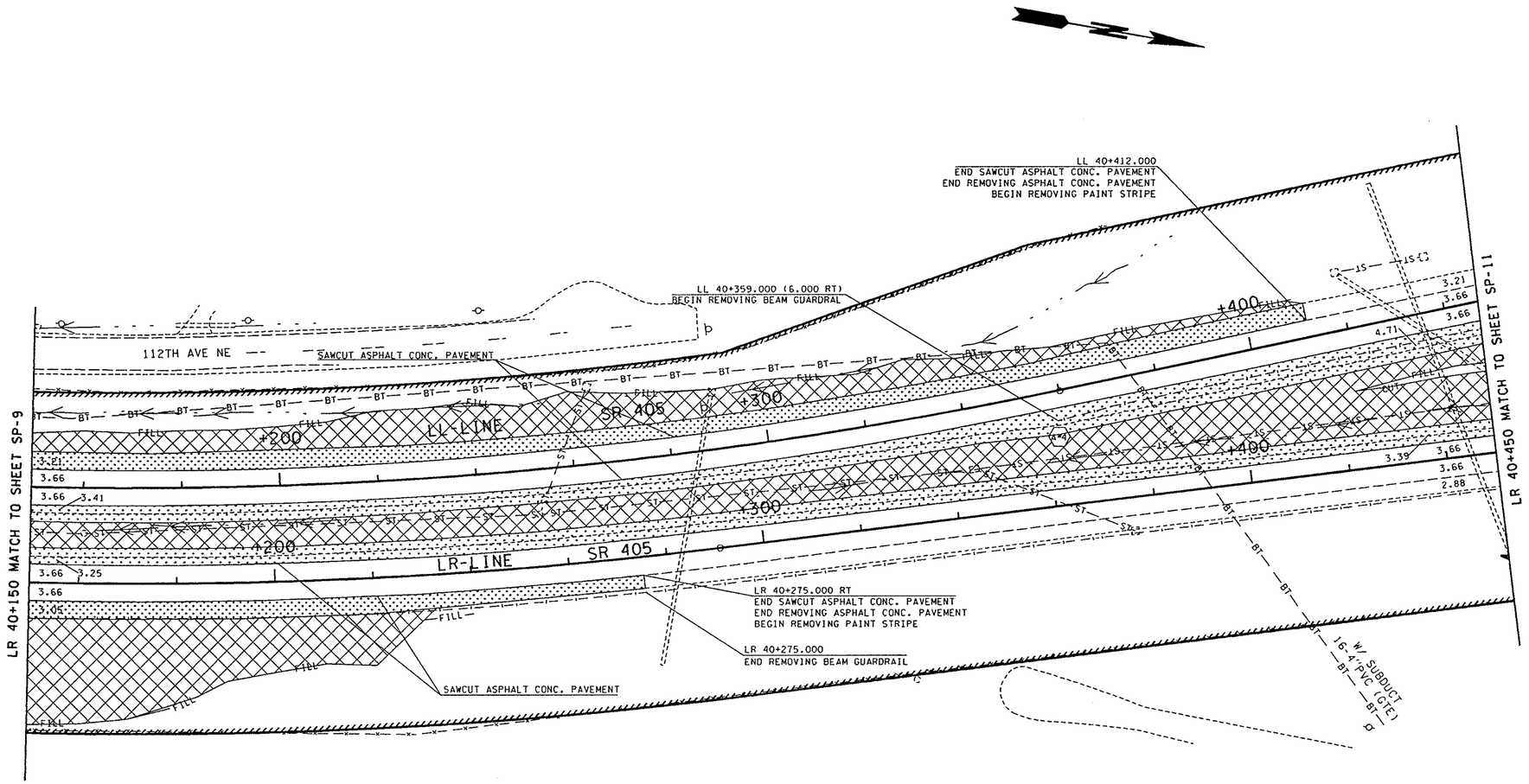
SITE PREP & EXIST. UTILITIES

SP-9

SHEET 48 OF 663 SHEETS

PLOT12 09 NOV 96 s:\412347\12095\95prep1.dgn $(username)
PLOT: \412347\A\30F1U-12.PLT
Sat Nov 09 13:56:32 1996 D412347

T.26N. & T.27N. R.5E. W.M.



LEGEND

- REMOVING ASPHALT CONC. PAVEMENT
- CLEARING AND GRUBBING
- RIGHT OF WAY AND LIMITED ACCESS
- WETLAND BOUNDARY
- REMOVING BEAM GUARDRAIL ANCHOR TYPE *

EXISTING GAS LINE —G— —G—
EXISTING OVERHEAD POWER LINE —OP— —OP—
EXISTING WATER LINE —W— —W—
EXISTING SEWER LINE —S— —S—
EXISTING BURIED FIBER OPTIC LINE —OF— —OF—
EXISTING BURIED POWER LINE —BP— —BP—
—BT— —BT— EXISTING BURIED TELEPHONE LINE
—ST— —ST— EXISTING STORM SEWER LINE
—X— —X— — EXISTING FENCE
—I— —I— — EXISTING GUARDRAIL
— CUT ——— CUT LIMIT
— FILL ——— FILL LIMIT

0 10 20 30 40 50
SCALE IN METERS

NOTE:
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FOR "AS CONSTRUCTED PLANS" ONLY

					REGION NO.	STATE	FED.AID PROJ.NO.
					10	WASH	
DESIGNED BY N. ABEDIN	6/12/96				JOB NUMBER		
ENTERED BY B. SAVILLE	6/12/96				96W035		
CHECKED BY N. ABEDIN	6/12/96				CONTRACT NO.		
PROJ. ENGR. R.KINOSHITA	6/12/96				5054		
REGIONAL ADM. J. OKAMOTO	6/12/96						
	DATE	DATE	REVISION	BY			

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

SITE PREP & EXIST. UTILITIES

SP-10

SHEET 49 OF 663 SHEETS

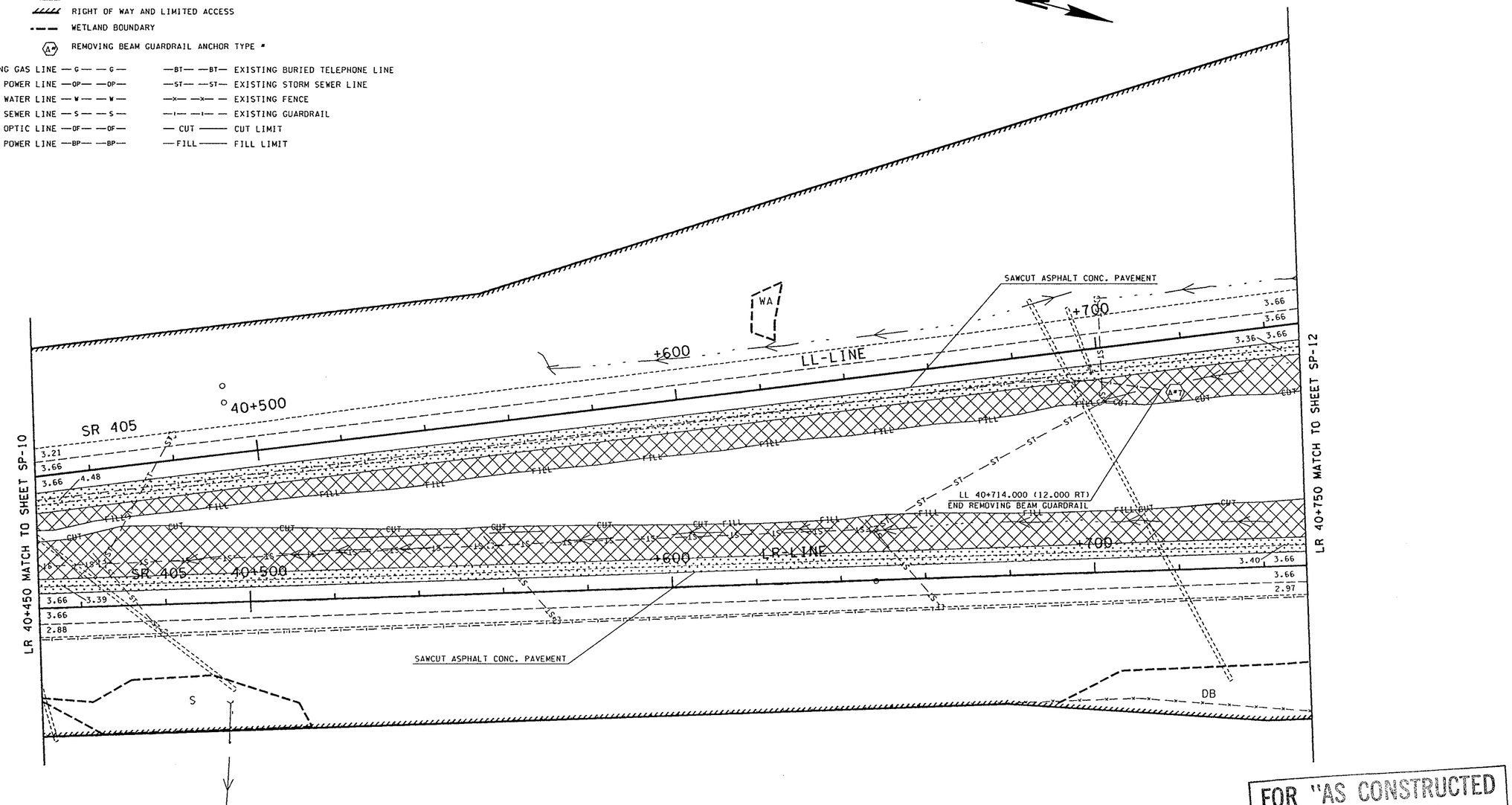
PLOT: \412347\A\30F1U-13.PLT
PLOT13 09 NOV 96 s:\412347\12095\95prep1.dgn $(username)
Sat Nov 09 13:56:48 1996 D412347

T.27N. R.5E. W.M.

LEGEND

- REMOVING ASPHALT CONC. PAVEMENT
- CLEARING AND GRUBBING
- RIGHT OF WAY AND LIMITED ACCESS
- WETLAND BOUNDARY
- REMOVING BEAM GUARDRAIL ANCHOR TYPE #

EXISTING GAS LINE —G— —G—	—BT— —BT— EXISTING BURIED TELEPHONE LINE
EXISTING OVERHEAD POWER LINE —OP— —OP—	—ST— —ST— EXISTING STORM SEWER LINE
EXISTING WATER LINE —W— —W—	—X— —X— EXISTING FENCE
EXISTING SEWER LINE —S— —S—	—I— —I— EXISTING GUARDRAIL
EXISTING BURIED FIBER OPTIC LINE —OF— —OF—	— CUT ——— CUT LIMIT
EXISTING BURIED POWER LINE —BP— —BP—	—FILL——— FILL LIMIT



0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

ENVIRONMENTAL NOTICE
ALL EXISTING VEGETATION DESIGNATED TO REMAIN SHALL BE SAVED AND PROTECTED IN ACCORDANCE WITH SECTION 1-07.16(2) AND SECTION 2-01.3(1) ITEM 9 OF THE SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS

FOR "AS CONSTRUCTED PLANS" ONLY

					REGION NO.	STATE	FED.AID PROJ.NO.
					10	WASH	
DESIGNED BY N. ABEDIN	6/12/96				JOB NUMBER		
ENTERED BY B. SAVILLE	6/12/96				96W035		
CHECKED BY N. ABEDIN	6/12/96				CONTRACT NO.		
PROJ. ENGR. R.KINOSHITA	6/12/96				5054		
REGIONAL ADM. J. OKAMOTO	6/12/96						
	DATE	DATE	REVISION	BY			

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

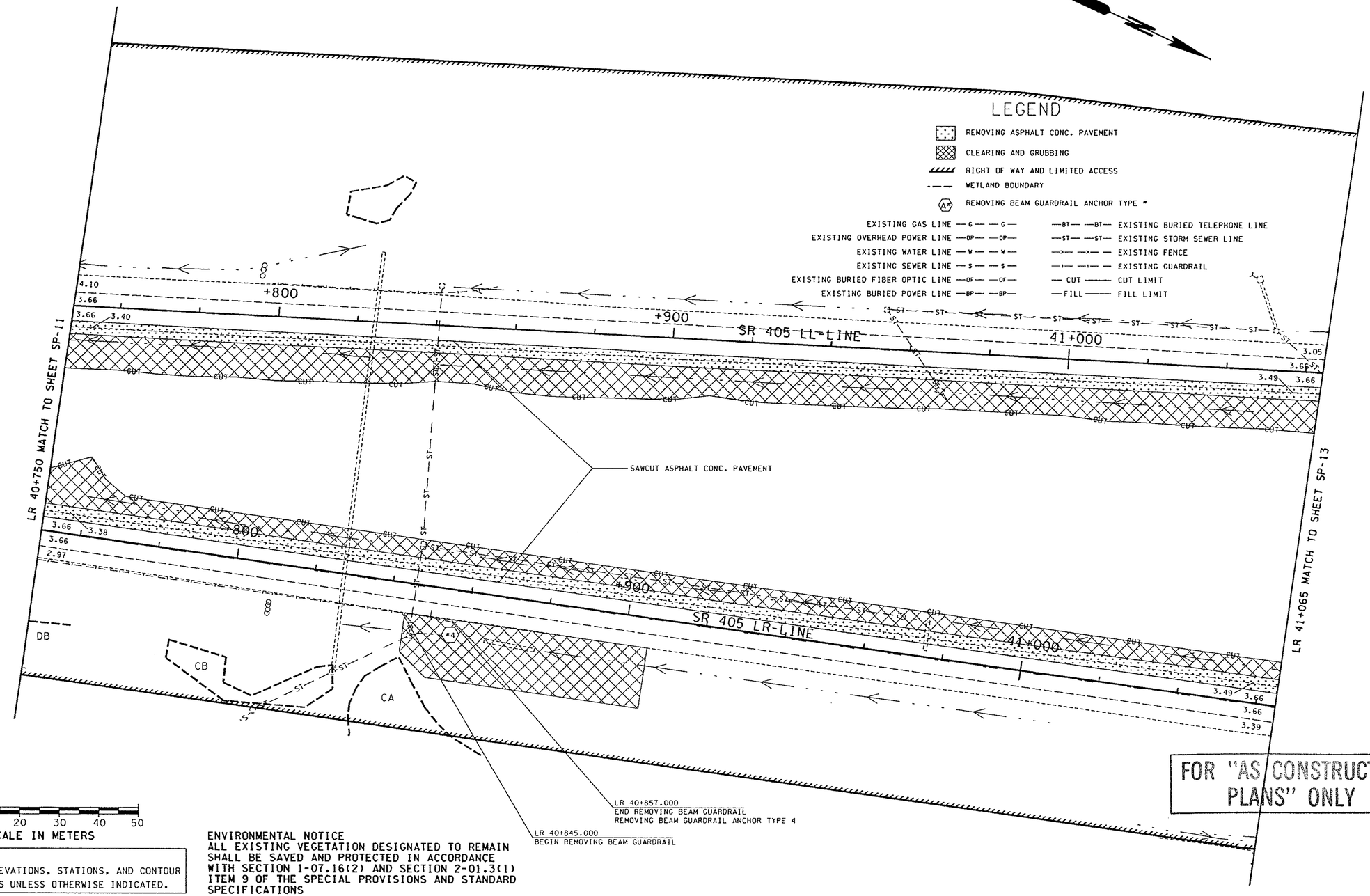
SITE PREP & EXIST. UTILITIES

SP-11

SHEET 50 OF 663 SHEETS

Sat Nov 09 13:45:58 1996 D412347 T:\412347\A\29F1U-1.PLT
PLOT1 09 NOV 96 s:\41234T\12095\95prep2.dgn $(username)

T.27N. R.5E. W.M.



0 10 20 30 40 50
SCALE IN METERS

NOTE:
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ENVIRONMENTAL NOTICE
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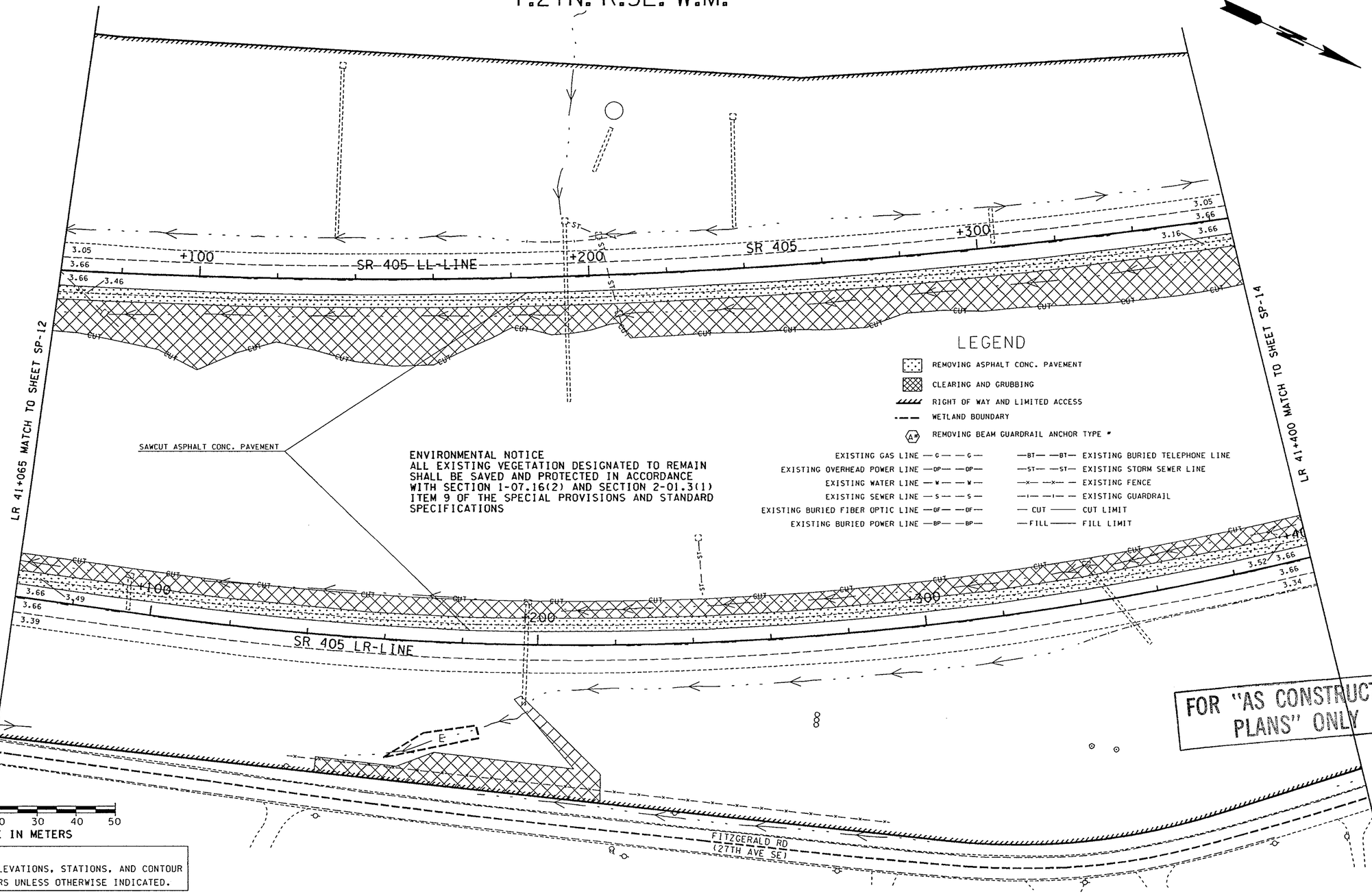
					REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
					10	WASH		
DESIGNED BY N. ABEDIN	6/12/96				JOB NUMBER			Washington State Department of Transportation
ENTERED BY B. SAVILLE	6/12/96				96W035			
CHECKED BY N. ABEDIN	6/12/96				CONTRACT NO.			SR 405 BOTHELL TO SWAMP CREEK I/C HOV LANES - STAGE 1
PROJ. ENGR. R.KINOSHITA	6/12/96				5054			SITE PREP & EXIST. UTILITIES
REGIONAL ADM. J. OKAMOTO	6/12/96							
	DATE	DATE	REVISION	BY				

SP-12
SHEET 51 OF 663 SHEETS

PLOT2 09 NOV 96 s:\412347\12095\95prep2.dgn $(username)
Sat Nov 09 13:46:50 1996 D412347 T:\412347\A\29F1U-2.PLT

T.27N. R.5E. W.M.



ENVIRONMENTAL NOTICE
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LEGEND

- REMOVING ASPHALT CONC. PAVEMENT
- CLEARING AND GRUBBING
- RIGHT OF WAY AND LIMITED ACCESS
- WETLAND BOUNDARY
- REMOVING BEAM GUARDRAIL ANCHOR TYPE *

EXISTING GAS LINE —G— —G—	—BT— —BT— EXISTING BURIED TELEPHONE LINE
EXISTING OVERHEAD POWER LINE —OP— —OP—	—ST— —ST— EXISTING STORM SEWER LINE
EXISTING WATER LINE —W— —W—	—x— —x— — EXISTING FENCE
EXISTING SEWER LINE —S— —S—	—I— —I— — EXISTING GUARDRAIL
EXISTING BURIED FIBER OPTIC LINE —OF— —OF—	— CUT ——— CUT LIMIT
EXISTING BURIED POWER LINE —BP— —BP—	— FILL ——— FILL LIMIT

FOR "AS CONSTRUCTED PLANS" ONLY

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

DESIGNED BY	N. ABEDIN	6/12/96			
ENTERED BY	B. SAVILLE	6/12/96			
CHECKED BY	N. ABEDIN	6/12/96			
PROJ. ENGR.	R.KINOSHITA	6/12/96			
REGIONAL ADM.	J. OKAMOTO	6/12/96			
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 96W035		
CONTRACT NO. 5054		

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

SITE PREP & EXIST. UTILITIES

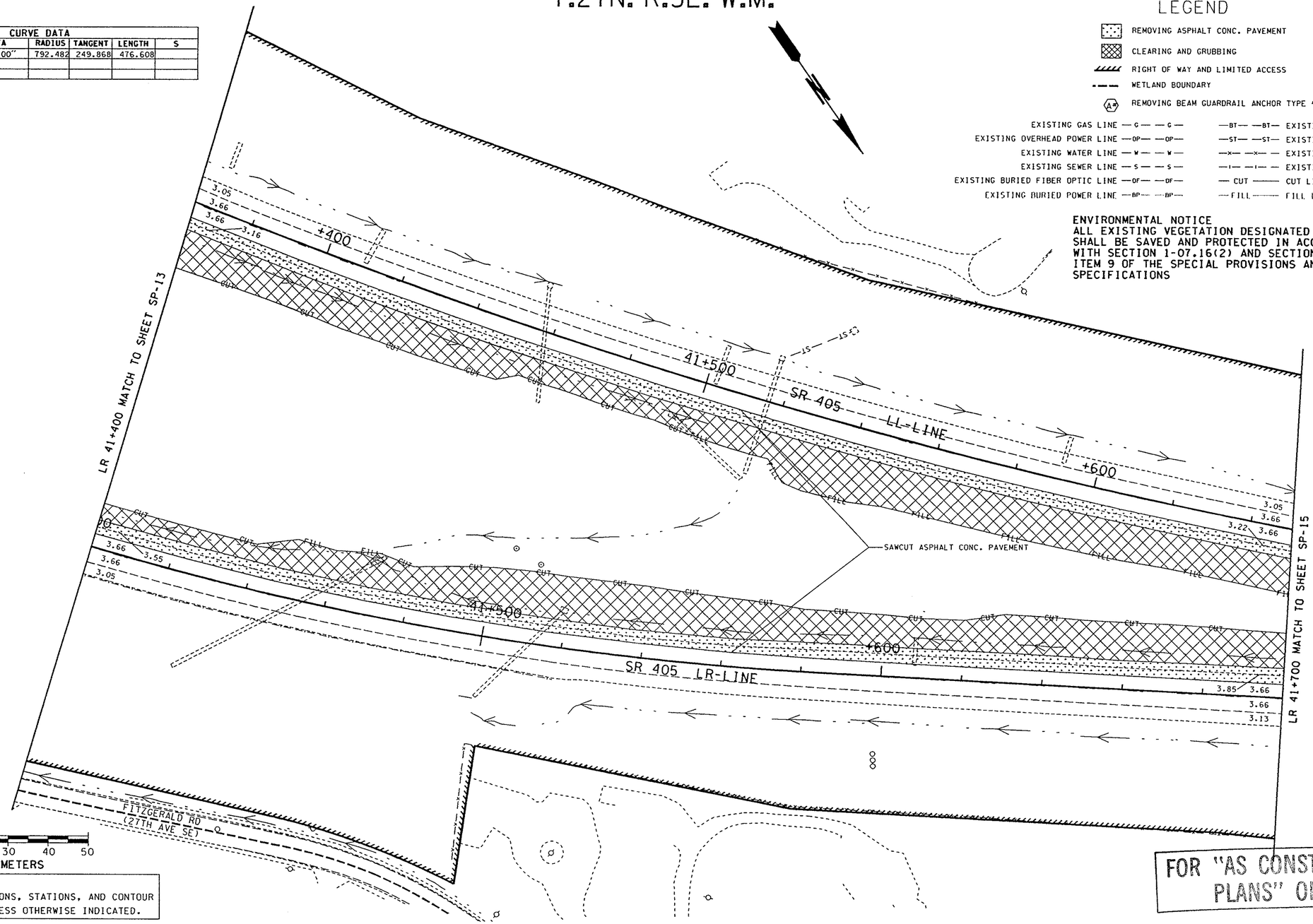
SP-13

SHEET 52 OF 663 SHEETS

Sat Nov 09 13:47:06 1996 D412347 T:\412347\A\29F1U-3.PLT
PLOT3 09 NOV 96 s:\412347\l2095\95prep2.dgn $(username)

T.27N. R.5E. W.M.

CURVE DATA					
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
LR 41+350.523	35°00'00"	792.482	249.868	476.608	



LEGEND

- REMOVING ASPHALT CONC. PAVEMENT
- CLEARING AND GRUBBING
- RIGHT OF WAY AND LIMITED ACCESS
- WETLAND BOUNDARY
- REMOVING BEAM GUARDRAIL ANCHOR TYPE #

EXISTING GAS LINE —G— —G—
EXISTING OVERHEAD POWER LINE —OP— —OP—
EXISTING WATER LINE —W— —W—
EXISTING SEWER LINE —S— —S—
EXISTING BURIED FIBER OPTIC LINE —OF— —OF—
EXISTING BURIED POWER LINE —BP— —BP—
—BT— —BT— EXISTING BURIED TELEPHONE LINE
—ST— —ST— EXISTING STORM SEWER LINE
—x— —x— EXISTING FENCE
—I— —I— EXISTING GUARDRAIL
— CUT — CUT LIMIT
— FILL — FILL LIMIT

ENVIRONMENTAL NOTICE
ALL EXISTING VEGETATION DESIGNATED TO REMAIN SHALL BE SAVED AND PROTECTED IN ACCORDANCE WITH SECTION 1-07.16(2) AND SECTION 2-01.3(1) ITEM 9 OF THE SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS

0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY N. ABEDIN	6/12/96				
ENTERED BY B. SAVILLE	6/12/96				
CHECKED BY N. ABEDIN	6/12/96				
PROJ. ENGR. R.KINOSHITA	6/12/96				
REGIONAL ADM. J. OKAMOTO	6/12/96				
	DATE	DATE	REVISION	BY	

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

SITE PREP & EXIST. UTILITIES

SP-14

SHEET 53 OF 663 SHEETS

T:\412347\A\29F1U-4.PLT PLOT4 09 NOV 96 s:\412347\12095\95prep2.dgn $(username) Sat Nov 09 13:49:12 1996 D412347 T:

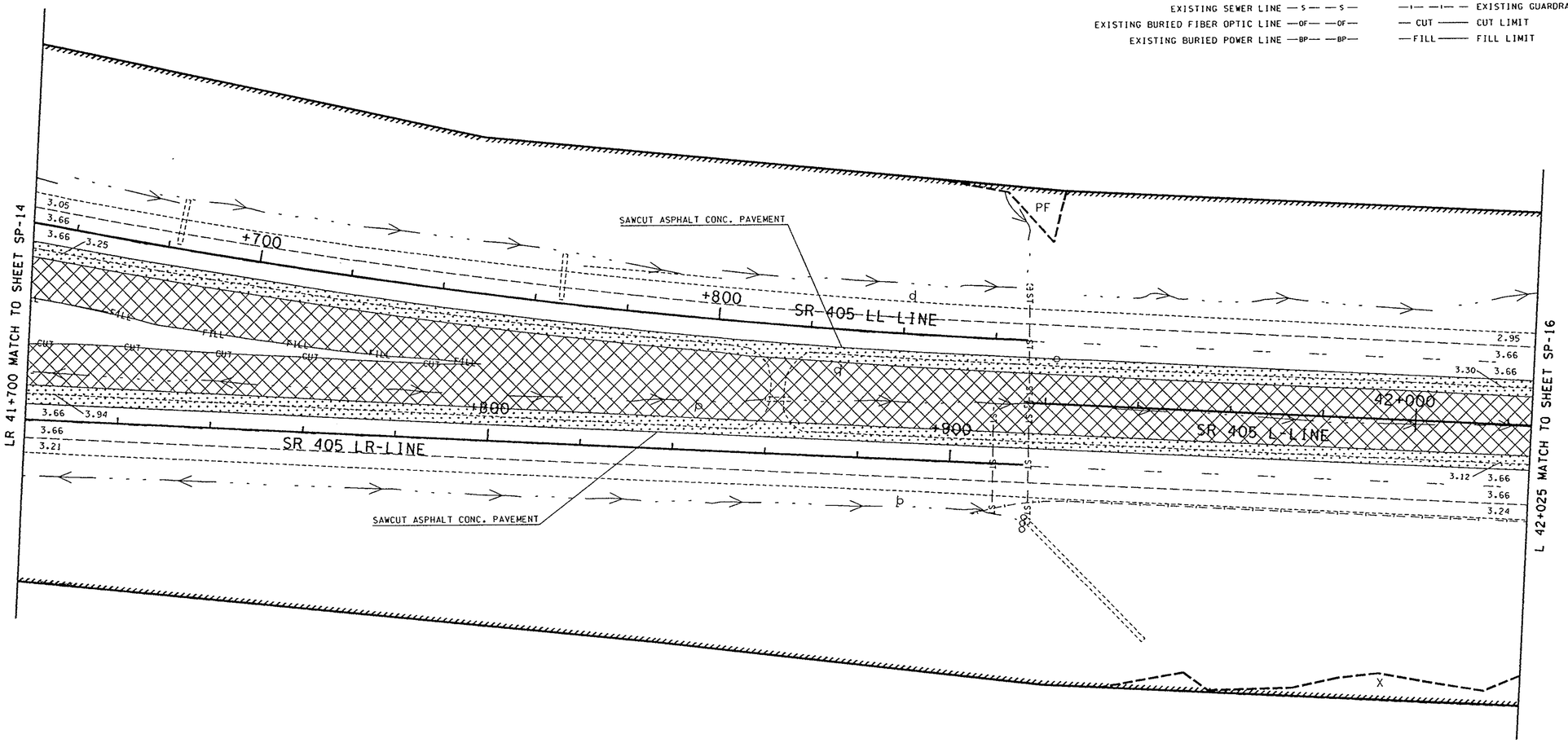
T.27N. R.5E. W.M.

CURVE DATA					
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
LL 41+477.418	29°59'52"L	1524.003	408.324	788.825	

LEGEND

- REMOVING ASPHALT CONC. PAVEMENT
- CLEARING AND GRUBBING
- RIGHT OF WAY AND LIMITED ACCESS
- WETLAND BOUNDARY
- REMOVING BEAM GUARDRAIL ANCHOR TYPE *

EXISTING GAS LINE —G— —G—	—BT— —BT— EXISTING BURIED TELEPHONE LINE
EXISTING OVERHEAD POWER LINE —OP— —OP—	—ST— —ST— EXISTING STORM SEWER LINE
EXISTING WATER LINE —W— —W—	—X— —X— — EXISTING FENCE
EXISTING SEWER LINE —S— —S—	—I— —I— — EXISTING GUARDRAIL
EXISTING BURIED FIBER OPTIC LINE —OF— —OF—	— CUT ——— CUT LIMIT
EXISTING BURIED POWER LINE —BP— —BP—	— FILL ——— FILL LIMIT



0 10 20 30 40 50
SCALE IN METERS

NOTE:
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ENVIRONMENTAL NOTICE
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FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	N. ABEDIN	6/12/96			
ENTERED BY	B. SAVILLE	6/12/96			
CHECKED BY	N. ABEDIN	6/12/96			
PROJ. ENGR.	R.KINOSHITA	6/12/96			
REGIONAL ADM.	J. OKAMOTO	6/12/96			
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
96W035		
CONTRACT NO.		
5054		

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

SITE PREP & EXIST. UTILITIES

SP-15

SHEET 54 OF 663 SHEETS

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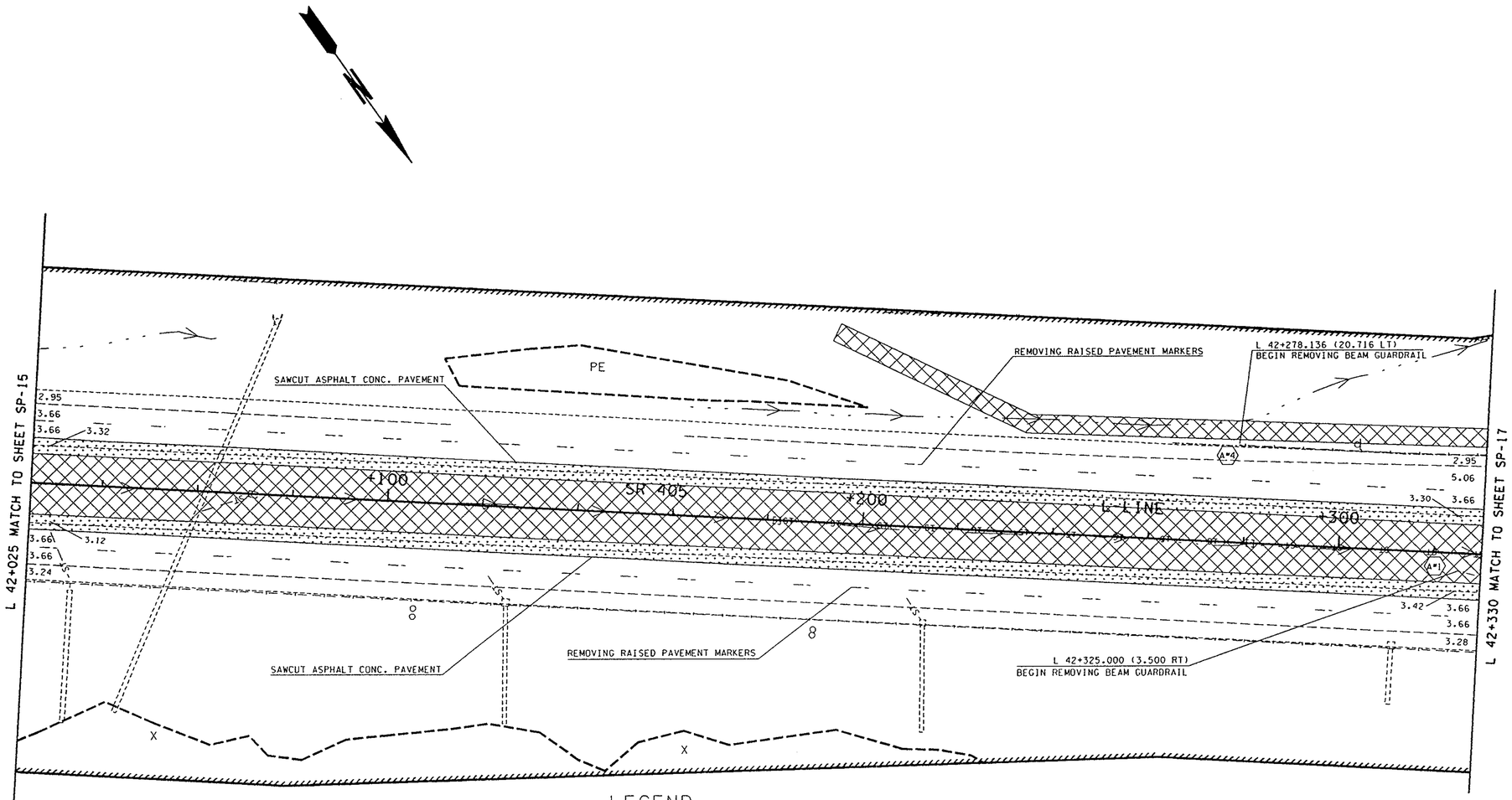
Sat Nov 09 13:49:26 1996 D412347

T.27N. R.5E. W.M.



LEGEND

- REMOVING ASPHALT CONC. PAVEMENT
- CLEARING AND GRUBBING
- RIGHT OF WAY AND LIMITED ACCESS
- WETLAND BOUNDARY
- REMOVING BEAM GUARDRAIL ANCHOR TYPE #

EXISTING GAS LINE —G— —G—
EXISTING OVERHEAD POWER LINE —OP— —OP—
EXISTING WATER LINE —W— —W—
EXISTING SEWER LINE —S— —S—
EXISTING BURIED FIBER OPTIC LINE —OF— —OF—
EXISTING BURIED POWER LINE —BP— —BP—
EXISTING BURIED TELEPHONE LINE —BT— —BT—
EXISTING STORM SEWER LINE —ST— —ST—
EXISTING FENCE —X— —X—
EXISTING GUARDRAIL —I— —I—
CUT ——— CUT LIMIT
FILL ——— FILL LIMIT

0 10 20 30 40 50
SCALE IN METERS

NOTE:
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ENVIRONMENTAL NOTICE
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FOR "AS CONSTRUCTED PLANS" ONLY

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CHECKED BY N. ABEDIN	6/12/96				
PROJ. ENGR. R.KINOSHITA	6/12/96				
REGIONAL ADM. J. OKAMOTO	6/12/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

SITE PREP & EXIST. UTILITIES

SP-16

SHEET 55 OF 663 SHEETS

SchuerP

C:\DGN\Mohab\As Built L2095\95PREP2.DGN

06/22/2000

PLOT6

T.27N. R.5E. W.M.

CURVE DATA					
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
AR4 2+607.429	03°48'51"	457.201	15.224	30.430	

LEGEND

- REMOVING ASPHALT CONC. PAVEMENT
- CLEARING AND GRUBBING
- RIGHT OF WAY AND LIMITED ACCESS
- WETLAND BOUNDARY
- A#3 REMOVING BEAM GUARDRAIL ANCHOR TYPE #

EXISTING GAS LINE	— G — G —	— BT — BT —	EXISTING BURIED TELEPHONE LINE
EXISTING OVERHEAD POWER LINE	— OP — OP —	— ST — ST —	EXISTING STORM SEWER LINE
EXISTING WATER LINE	— W — W —	—x— —x—	EXISTING FENCE
EXISTING SEWER LINE	— S — S —	— I — I —	EXISTING GUARDRAIL
EXISTING BURIED FIBER OPTIC LINE	— OF — OF —	— CUT —	CUT LIMIT
EXISTING BURIED POWER LINE	— BP — BP —	— FILL —	FILL LIMIT

RFI 97 REQUEST FOR INFORMATION

L 42+330 MATCH TO SHEET SP-16

L 42+675 MATCH TO SHEET SP-18

L 42+395.876 (9.581 LT)
END SAWCUT ASPHALT CONC. PAVEMENT
END REMOVING ASPHALT CONC. PAVEMENT

L 42+415.193 (23.80 LT)
END REMOVING BEAM GUARDRAIL

L 42+478.108 (9.467 LT)
BEGIN SAWCUT ASPHALT CONC. PAVEMENT
BEGIN REMOVING ASPHALT CONC. PAVEMENT

L 42+476.051 (8.270 LT)
BEGIN REMOVING CONC. BARRIER

L 42+527.123 (3.138 LT)
END REMOVING CONC. BARRIER

L 42+673.491 (16.854 LT)
BEGIN REMOVING RAISED PAVEMENT MARKERS

L 42+530.975 (23.881RT)
~~L 42+531.486 (24.896 RT)~~
BEGIN SAWCUT ASPHALT CONC. PAVEMENT
BEGIN REMOVING ASHPALT CONC. PAVEMENT
END REMOVING PAINT STRIPE

L 42+609.553 (17.079 RT & 24.456 RT)
END REMOVING GORE STRIPE
BEGIN REMOVING PAINT STRIPE

L 42+484.587 (17.123RT)
BEGIN REMOVING GORE STRIPE

L 42+458.911 (9.827 RT)
BEGIN SAWCUT ASPHALT CONC. PAVEMENT
BEGIN REMOVING ASPHALT CONC. PAVEMENT

L 42+441.237 (20.158 RT)
BEGIN REMOVING BEAM GUARDRAIL

L 42+371.000 (8.000 RT)
END REMOVING BEAM GUARDRAIL

L 42+369.903 (9.803 RT)
END SAWCUT ASPHALT CONC. PAVEMENT
END REMOVING ASPHALT CONC. PAVEMENT

AR4 2+660 (1.82 RT)

SR 405 · L-LINE · AR4 · PD · PC · FA · 225TH ST SE · 108TH AVENUE SE · +400 · 424+500 · +600

SAWCUT ASPHALT CONC. PAVEMENT

REMOVING RAISED PAVEMENT MARKERS

0 10 20 30 40 50
SCALE IN METERS

NOTE:
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ENVIRONMENTAL NOTICE
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FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	N. ABEDIN	6/12/96			
ENTERED BY	B. SAVILLE	6/12/96			
CHECKED BY	N. ABEDIN	6/12/96			
PROJ. ENGR.	R.KINOSHITA	6/12/96			
REGIONAL ADM.	J. OKAMOTO	6/12/96	01/29/98	RFI #97	ALM
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035

CONTRACT NO.

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

SITE PREP & EXIST. UTILITIES

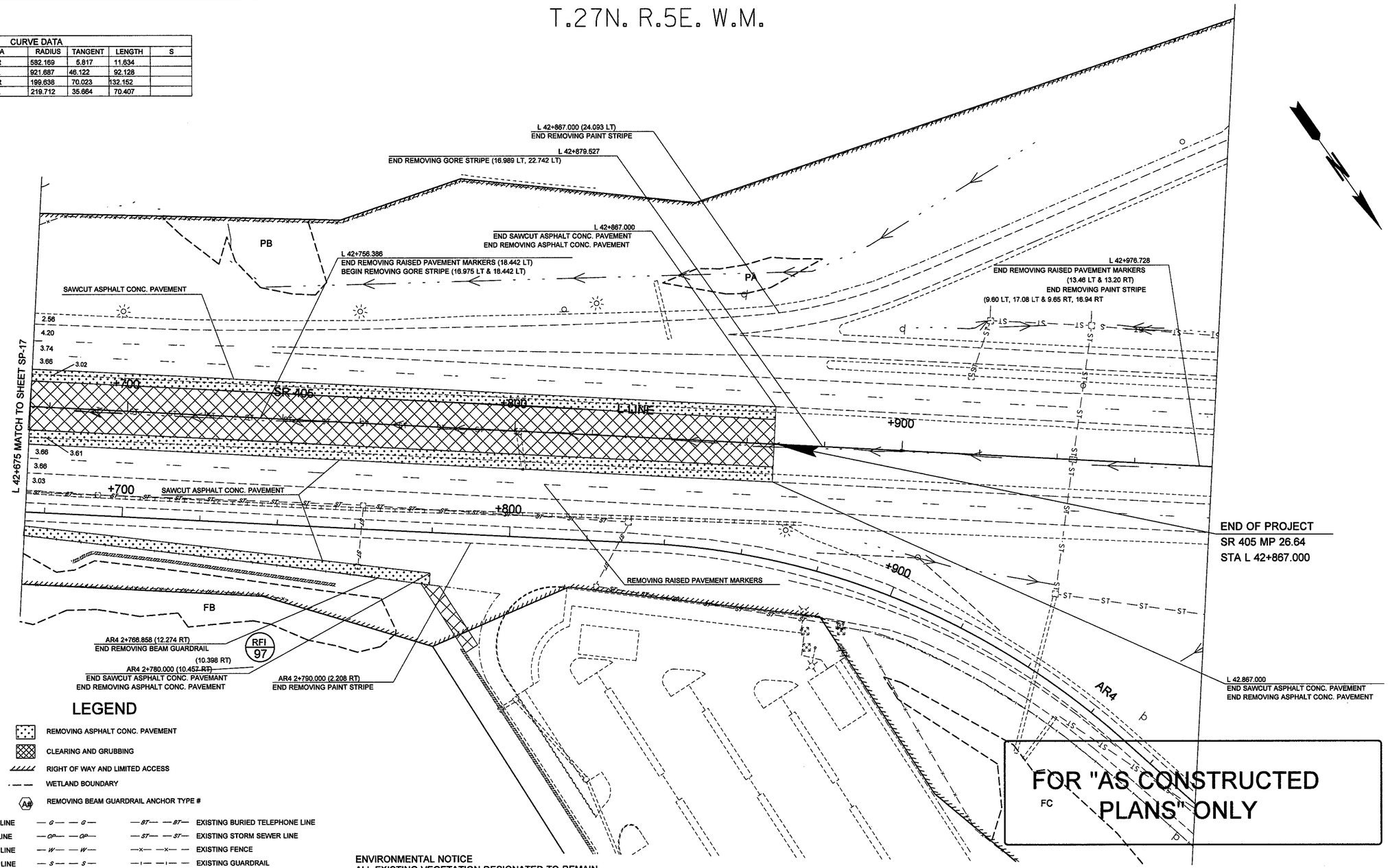
SP-17

SHEET 56 OF 663 SHEETS

SchuerP
C:\DGN\Mohab\As Built L2095\95PREP2.DGN
06/22/2000
PLOT7

T.27N. R.5E. W.M.

CURVE DATA					
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
CL4 2+745.332	01°08'42"R	582.169	5.817	11.634	
AL4 2+831.424	05°43'46"L	921.687	46.122	92.128	
AR4 2+905.503	38°39'23"R	199.638	70.023	132.152	
AL4 2+913.133	18°26'24"L	219.712	35.664	70.407	



LEGEND

- REMOVING ASPHALT CONC. PAVEMENT
- CLEARING AND GRUBBING
- RIGHT OF WAY AND LIMITED ACCESS
- WETLAND BOUNDARY
- (A#) REMOVING BEAM GUARDRAIL ANCHOR TYPE #

EXISTING GAS LINE	— G — G —	— BT — BT —	EXISTING BURIED TELEPHONE LINE
EXISTING OVERHEAD POWER LINE	— OP — OP —	— ST — ST —	EXISTING STORM SEWER LINE
EXISTING WATER LINE	— W — W —	—x— —x—	EXISTING FENCE
EXISTING SEWER LINE	— S — S —	—I— —I—	EXISTING GUARDRAIL
EXISTING BURIED FIBER OPTIC LINE	— OF — OF —	— CUT —	CUT LIMIT
EXISTING BURIED POWER LINE	— BP — BP —	— FILL —	FILL LIMIT

RFI 97 REQUEST FOR INFORMATION

ENVIRONMENTAL NOTICE
ALL EXISTING VEGETATION DESIGNATED TO REMAIN SHALL BE SAVED AND PROTECTED IN ACCORDANCE WITH SECTION 1-07.16(2) AND SECTION 2-01.3(1) ITEM 9 OF THE SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS

0 10 20 30 40 50
SCALE IN METERS

NOTE:
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DESIGNED BY	N. ABEDIN	6/12/96			
ENTERED BY	B. SAVILLE	6/12/96			
CHECKED BY	N. ABEDIN	6/12/96			
PROJ. ENGR.	R.KINOSHITA	6/12/96			
REGIONAL ADM.	J. OKAMOTO	6/12/96	01/29/98	RFI #97	ALM
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO.

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

SITE PREP & EXIST. UTILITIES

SP-18

SHEET 57 OF 663 SHEETS

QUANTITY TABULATION - TEMPORARY EROSION CONTROL

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.
THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

TESC	LOCATION		SEEDING, FERTILIZING, AND MULCHING	EROSION CONTROL BLANKET	CLEAR PLASTIC COVERING	ROCK CHECK DAM	STRAW BALE	GRAVEL FILTER BERM	INLET PROTECTION		EROSION CONTROL SLOT DRAIN	PLASTIC BARRIER FENCE	STABILIZED CONSTRUCTION ENTERANCE	MUD PALLIATIVE	STRAW MULCH	CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE		SEE GENERAL NOTES
			HA	M2	M2	EACH	EACH	EACH	EACH		M	M	M2	M3	HA	M		
1	MITIGATION AREA		0.20				18		1				312	20	0.20	44		1,2,5
	L-LINE																	
2	L 38+286 TO L 38+515 LT											220						1,2
2	L 38+286 TO L 40+120 CL												360	120				1,2
2	L 38+305 CL							1										1,2
2	L 38+332								1									1,2
2	L 38+332 RT								1									1,2
2	L 38+335 CL						6											1,2
2	L 38+405 CL							1										1,2
2	L 38+423								2									1,2
2	L 38+425 CL						8											1,2
2	L 38+495 CL							1										1,2
2,3	L 38+355 TO L 38+550 RT		0.11	300	800													1,2,4,6
3	L 38+515								2									1,2
3	L 38+520 CL						8											1,2
3	L 38+560 TO L 39+105 LT		0.19												0.19			1,2,4,6
3	L 38+580 CL							1										1,2
3	L 38+590 TO L 39+105 LT											515						1,2
3	L 38+590 TO L 39+155 LT															600		1,2
3	L 38+591								2									1,2
3	L 38+605 CL							1										1,2
3	L 38+660 CL							1										1,2
3	L 38+672								2									1,2
3	L 38+727 RT								2									1,2
3	L 38+770 CL							1										1,2
3	L 38+781.5								2									1,2
3	L 38+790 CL							1										1,2
3	L 38+847 LT								2									1,2
4	L 38+905 CL							1										1,2
4	L 38+911 LT								2									1,2
4	L 38+920 CL							1										1,2
4	L 38+970 RT								2									1,2
4	L 38+970 RT								1									1,2
	SHEET TOTAL		0.5	300	800		40	10	22			735	672	140	0.39	644		

GENERAL NOTES:

1. THE CONTRACTOR SHALL KEEP AN EROSION CONTROL PLAN ON SITE THAT SHALL BE MODIFIED TO REFLECT ACTUAL CONDITIONS AND PHASING OF THE PROJECT.

2. DETAILS AND NOTES FOR CONSTRUCTION ARE FOUND ON THE TESC DETAIL SHEETS.

3. THE STORMWATER FACILITIES INCLUDING THE DETENTION POND AND THE WATER QUALITY VAULT AT NE 195TH ST SHALL BE INSTALLED AS SOON AS POSSIBLE, DURING PHASE ONE OF THE PROJECT. THE STABILIZED CONSTRUCTION ENTERANCE FOR THE WATER QUALITY VAULT SHALL BE LEFT IN PLACE AND MAINTAINED FOR FREQUENT SEDIMENT REMOVAL FROM THE VAULT DURING CONSTRUCTION

4. SEE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS FOR SEEDING, FERTILIZING, AND MULCHING WORK DESCRIPTION.

5. SEE MITIGATION PLAN FOR GRADING AND PLANTING PLAN. CONSTRUCT SILT FENCE AT TIME OF CLEARING. CONSTRUCT STRAW BALE CHECK DAM WHEN CHANNEL TO CREEK IS FORMED. LEAVE IN PLACE TILL MITIGATION AREA IS STABLE.

6. STRAW MULCH, EROSION CONTROL BLANKET, AND CLEAR PLASTIC COVERING ARE FOR WET WEATHER USE. SEE SPECIAL CONDITIONS.

7. PER ARGEEMENT WITH CITY OF BOTHELL, AGREEMENT # GCA 0570.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. Timm	10/96			
ENTERED BY	M. Saleem	10/96			
CHECKED BY	R. Thurmond	10/96			
PROJ. ENGR.	R. Kinoshita	10/96			
REGION ADM.	J. Okamoto	10/96			
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96WO35

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL QUANTITY TABULATION

TESC QT-1

SHEET 58 OF 663 SHEETS

QUANTITY TABULATION - TEMPORARY EROSION CONTROL

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.
THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

TESC	LOCATION		SEEDING, FERTILIZING, AND MULCHING	EROSION CONTROL BLANKET	CLEAR PLASTIC COVERING	ROCK CHECK DAM	STRAW BALE	GRAVEL FILTER BERM	INLET PROTECTION		EROSION CONTROL SLOT DRAIN	PLASTIC BARRIER FENCE	STABILIZED CONSTRUCTION ENTERANCE	MUD PALLIATIVE	STRAW MULCH	CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE		SEE GENERAL NOTES
	L-LINE		HA	M2	M2	EACH	EACH	EACH	EACH		M	M	M2	M3	HA	M		
4	L 39+025 CL							1										1,2
4	L 39+033 LT								3									1,2
4	L 39+040 CL							1										1,2
4	L 39+077 LT								2									1,2
4	L 39+077 RT								1									1,2
4	L 39+115 CL							1										1,2
4	L 39+123 TO L 39+155 LT								2			35						1,2
4	L 39+129								2									1,2
4	L 39+155 CL						8											1,2
4	L 39+158								2									1,2
4	L 39+161 RT								1									1,2
4	L 39+170 CL							1										1,2
4	L 39+202 LT								1									1,2
5	L 39+205 TO L 39+767 LT		0.24	400											0.20			1,2,4,6
5	L 39+246.3 LT								2									1,2
5	L 39+255 CL							1										1,2
5	L 39+260 LT							1										1,2
5	L 39+269 LT								1									1,2
5	L 39+270 RT							1										1,2
5	L 39+275 LT						10											1,2
5	L 39+296 LT								1									1,2
5	L 39+305 CL							1										1,2
5	L 39+323 RT								1									1,2
5	L 39+350 CL							1										1,2
5	L 39+350 LT						10											1,2
5	L 39+384 TO L 39+448 RT								1									1,2
5	L 39+435 LT						8											1,2
5	L 39+440 CL						9											1,2
5	L 39+444 LT								2									1,2
5	L 39+448 RT								1									1,2
5	L 39+448 TO L 39+521 RT								1									1,2
5	L 39+455 CL							1										1,2
	SHEET TOTAL		0.24	400			45	10	24			35			0.2			

GENERAL NOTES:

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2. DETAILS AND NOTES FOR CONSTRUCTION ARE FOUND ON THE TESC DETAIL SHEETS.

3. THE STORMWATER FACILITIES INCLUDING THE DETENTION POND AND THE WATER QUALITY VAULT AT NE 195TH ST SHALL BE INSTALLED AS SOON AS POSSIBLE, DURING PHASE ONE OF THE PROJECT. THE STABILIZED CONSTRUCTION ENTERANCE FOR THE WATER QUALITY VAULT SHALL BE LEFT IN PLACE AND MAINTAINED FOR FREQUENT SEDIMENT REMOVAL FROM THE VAULT DURING CONSTRUCTION

4. SEE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS FOR SEEDING, FERTILIZING, AND MULCHING WORK DESCRIPTION.

5. SEE MITIGATION PLAN FOR GRADING AND PLANTING PLAN. CONSTRUCT SILT FENCE AT TIME OF CLEARING. CONSTRUCT STRAW BALE CHECK DAM WHEN CHANNEL TO CREEK IS FORMED. LEAVE IN PLACE TILL MITIGATION AREA IS STABLE.

6. STRAW MULCH, EROSION CONTROL BLANKET, AND CLEAR PLASTIC COVERING ARE FOR WET WEATHER USE. SEE SPECIAL CONDITIONS.

7. PER ARGEEMENT WITH CITY OF BOTHELL, AGREEMENT # GCA 0570.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. Timm	10/96			
ENTERED BY	M. Saleem	10/96			
CHECKED BY	R. Thurmond	10/96			
PROJ. ENGR.	R. Kinoshita	10/96			
REGION ADM.	J. Okamoto	10/96			
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96WO35

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL QUANTITY TABULATION

TESC QT-2

SHEET 59 OF 663 SHEETS

QUANTITY TABULATION - TEMPORARY EROSION CONTROL

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.
THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

TESC	LOCATION		SEEDING, FERTILIZING, AND MULCHING	EROSION CONTROL BLANKET	CLEAR PLASTIC COVERING	ROCK CHECK DAM	STRAW BALE	GRAVEL FILTER BERM	INLET PROTECTION		EROSION CONTROL SLOT DRAIN	PLASTIC BARRIER FENCE	STABILIZED CONSTRUCTION ENTERANCE	MUD PALLIATIVE	STRAW MULCH	CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE		SEE GENERAL NOTES
	L-LINE		HA	M2	M2	EACH	EACH	EACH	EACH		M	M	M2	M3	HA	M		
6	L 39+515 LT						10											1,2
6	L 39+520 CL						9											1,2
6	L 39+520 LT								3									1,2
6	L 39+530 CL							1										1,2
6	L 39+536 LT								1									1,2
6	L 39+536 RT								1									1,2
6	L 39+565 LT							1										1,2
6	L 39+612								3									1,2
6	L 39+612 LT								2									1,2
6	L 39+617								2									
6	L 39+640 CL,LT							2										1,2
6	L 39+703 LT								2									1,2
6	L 39+705 LT							1										1,2
6	L 39+710								1									1,2
6	L 39+735 CL							1										1,2
6	L 39+795								2									1,2
6	L 39+810 LT								1									1,2
6	L 39+813 LT								1									1,2
7	L 39+830 LT						8											1,2
7	L 39+835 CL							1										1,2
7	L 39+850 TO L 40+120 RT		0.27	400	2150										0.02			1,2,4,6
7	L 39+886								2									1,2
7	L 39+890 TO L 40+120 LT		0.07												0.07			1,2,4,6
7	L 39+901								1									1,2
7	L 39+903 LT								2									1,2
7	L 39+905 LT						8											1,2
7	L 39+920 RT						8											1,2
7	L 39+930 LT						8											1,2
7	L 39+935 CL							1										1,2
7	L 39+960 LT						8											1,2
7	L 39+975 RT						8											1,2
7	L 39+977 RT								2									1,2
7	L 39+995 RT						8											1,2
	SHEET TOTAL		0.34	400	2150		75	8	26						0.085			

GENERAL NOTES:

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3. THE STORMWATER FACILITIES INCLUDING THE DETENTION POND AND THE WATER QUALITY VAULT AT NE 195TH ST SHALL BE INSTALLED AS SOON AS POSSIBLE, DURING PHASE ONE OF THE PROJECT. THE STABILIZED CONSTRUCTION ENTERANCE FOR THE WATER QUALITY VAULT SHALL BE LEFT IN PLACE AND MAINTAINED FOR FREQUENT SEDIMENT REMOVAL FROM THE VAULT DURING CONSTRUCTION

4. SEE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS FOR SEEDING, FERTILIZING, AND MULCHING WORK DESCRIPTION.

5. SEE MITIGATION PLAN FOR GRADING AND PLANTING PLAN. CONSTRUCT SILT FENCE AT TIME OF CLEARING. CONSTRUCT STRAW BALE CHECK DAM WHEN CHANNEL TO CREEK IS FORMED. LEAVE IN PLACE TILL MITIGATION AREA IS STABLE.

6. STRAW MULCH, EROSION CONTROL BLANKET, AND CLEAR PLASTIC COVERING ARE FOR WET WEATHER USE. SEE SPECIAL CONDITIONS.

7. PER ARGEEMENT WITH CITY OF BOTHELL, AGREEMENT # GCA 0570.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. Timm	10/96			
ENTERED BY	M. Saleem	10/96			
CHECKED BY	R. Thurmond	10/96			
PROJ. ENGR.	R. Kinoshita	10/96			
REGION ADM.	J. Okamoto	10/96			
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	
JOB NUMBER 96WO35		
CONTRACT NO. 5054		

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL QUANTITY TABULATION

TESC QT-3

SHEET 60 OF 663 SHEETS

QUANTITY TABULATION - TEMPORARY EROSION CONTROL

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.
THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

TESC	LOCATION		SEEDING, FERTILIZING, AND MULCHING	EROSION CONTROL BLANKET	CLEAR PLASTIC COVERING	ROCK CHECK DAM	STRAW BALE	GRAVEL FILTER BERM	INLET PROTECTION		EROSION CONTROL SLOT DRAIN	PLASTIC BARRIER FENCE	STABILIZED CONSTRUCTION ENTERANCE	MUD PALLIATIVE	STRAW MULCH	CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE		SEE GENERAL NOTES
			HA	M2	M2	EACH	EACH	EACH	EACH		M	M	M2	M3	HA	M		
	L-LINE																	
7	L 40+005 LT						8											1,2
7	L 40+035 CL							1										1,2
7	L 40+040 LT						8											1,2
7	L 40+070 RT								2									1,2
7	L 40+075 LT						8											1,2
7	L 40+105 LT						12											1,2
13	L 41+866 LT								1									1,2
13	L 41+915 TO L 41+925 LT											19						1,2
13	L 41+915 TO L 42+380 CL		0.29												0.29			1,2,4,6
13	L 41+916 TO L 42+867 CL												180	60				1,2
13	L 41+920 CL					1												1,2
13	L 41+930 TO L 42+230 RT											305						1,2
13	L 42+002 LT								1									1,2
13	L 42+004 LT								2									1,2
13	L 42+010 CL							1										1,2
14	L 42+071 CL								1									1,2
14	L 42+110 CL							1										1,2
14	L 42+110 TO L 42+200 LT											115						1,2
14	L 42+175 CL							1										1,2
14	L 42+180 TO L 42+220 LT															50		1,2
14	L 42+182 CL								1									1,2
14	L 42+194 TO L 42+415		0.15												0.15			1,2,4,6
14	L 42+275 CL							1										1,2
14	L 42+281 CL								1									1,2
14	L 42+300 TO L 42+400 LT															100		1,2
14	L 42+305 LT						12											1,2
14	L 42+325 CL							1										1,2
15	L 42+333								1									1,2
15	L 42+340 CL						8											1,2
15	L 42+350 LT						12											1,2
15	L 42+355 TO L 42+442 LT											99						1,2
15	L 42+365 CL							1										1,2
	SHEET TOTAL		0.44			1	68	7	10			538	180	60	0.44	150		

GENERAL NOTES:

1. THE CONTRACTOR SHALL KEEP AN EROSION CONTROL PLAN ON SITE THAT SHALL BE MODIFIED TO REFLECT ACTUAL CONDITIONS AND PHASING OF THE PROJECT.

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3. THE STORMWATER FACILITIES INCLUDING THE DETENTION POND AND THE WATER QUALITY VAULT AT NE 195TH ST SHALL BE INSTALLED AS SOON AS POSSIBLE, DURING PHASE ONE OF THE PROJECT. THE STABILIZED CONSTRUCTION ENTERANCE FOR THE WATER QUALITY VAULT SHALL BE LEFT IN PLACE AND MAINTAINED FOR FREQUENT SEDIMENT REMOVAL FROM THE VAULT DURING CONSTRUCTION

4. SEE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS FOR SEEDING, FERTILIZING, AND MULCHING WORK DESCRIPTION.

5. SEE MITIGATION PLAN FOR GRADING AND PLANTING PLAN. CONSTRUCT SILT FENCE AT TIME OF CLEARING. CONSTRUCT STRAW BALE CHECK DAM WHEN CHANNEL TO CREEK IS FORMED. LEAVE IN PLACE TILL MITIGATION AREA IS STABLE.

6. STRAW MULCH, EROSION CONTROL BLANKET, AND CLEAR PLASTIC COVERING ARE FOR WET WEATHER USE. SEE SPECIAL CONDITIONS.

7. PER ARGEEMENT WITH CITY OF BOTHELL, AGREEMENT # GCA 0570.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. Timm	10/96		
ENTERED BY	M. Saleem	10/96		
CHECKED BY	R. Thurmond	10/96		
PROJ. ENGR.	R. Kinoshita	10/96		
REGION ADM.	J. Okamoto	10/96		
		DATE	DATE	REVISION

BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96WO35

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL QUANTITY TABULATION

TESC QT-4

SHEET 61 OF 663 SHEETS

QUANTITY TABULATION - TEMPORARY EROSION CONTROL

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.
THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

TESC	LOCATION		SEEDING, FERTILIZING, AND MULCHING	EROSION CONTROL BLANKET	CLEAR PLASTIC COVERING	ROCK CHECK DAM	STRAW BALE	GRAVEL FILTER BERM	INLET PROTECTION		EROSION CONTROL SLOT DRAIN	PLASTIC BARRIER FENCE	STABILIZED CONSTRUCTION ENTERANCE	MUD PALLIATIVE	STRAW MULCH	CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE		SEE GENERAL NOTES
			HA	M2	M2	EACH	EACH	EACH	EACH		M	M	M2	M3	HA	M		
15	L 42+382 LT								1									1,2
15	L 42+387 LT								1									1,2
15	L 42+399 TO L 42+562 RT											181						1,2
15	L 42+411 LT								1									1,2
15	L 42+423 LT								1									1,2
15	L 42+471 LT								1									1,2
15	L 42+475								1									1,2
15	L 42+478 TO L 42+867 CL		0.25												0.25			1,2,4,6
15	L 42+495 TO L 42+550 LT											60						1,2
15	L 42+525 CL							1										1,2
15	L 42+533 CL								1									1,2
15	L 42+545 CL								1									1,2
15	L 42+595 CL							1										1,2
15	L 42+605 CL, LT & RT								2									1,2
15	L 42+619 RT								1									1,2
15	L 42+632 LT								1									1,2
15	L 42+650								1									1,2
15	L 42+672 TO L 42+770 RT											115						1,2
15	L 42+690 LT								1									1,2
16	L 42+710 CL								1									1,2
16	L 42+710 TO L 42+753 LT											55						1,2
16	L 42+720 CL							1										1,2
16	L 42+801 CL								1									1,2
16	L 42+810 CL							1										1,2
16	L 42+838 TO L 42+883 LT											50						1,2
	S-W LINE																	
2	S-W 8+460 TO S-W 8+520 RT											63						1,2
2	S-W 8+460 TO S-W 8+590 LT											127						1,2
3	S-W 8+500 TO S-W 8+590 LT															100		1,2
	SHEET TOTAL		0.25					4	16			651			0.25	100		

GENERAL NOTES:

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2. DETAILS AND NOTES FOR CONSTRUCTION ARE FOUND ON THE TESC DETAIL SHEETS.

3. THE STORMWATER FACILITIES INCLUDING THE DETENTION POND AND THE WATER QUALITY VAULT AT NE 195TH ST SHALL BE INSTALLED AS SOON AS POSSIBLE, DURING PHASE ONE OF THE PROJECT. THE STABILIZED CONSTRUCTION ENTERANCE FOR THE WATER QUALITY VAULT SHALL BE LEFT IN PLACE AND MAINTAINED FOR FREQUENT SEDIMENT REMOVAL FROM THE VAULT DURING CONSTRUCTION

4. SEE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS FOR SEEDING, FERTILIZING, AND MULCHING WORK DESCRIPTION.

5. SEE MITIGATION PLAN FOR GRADING AND PLANTING PLAN. CONSTRUCT SILT FENCE AT TIME OF CLEARING. CONSTRUCT STRAW BALE CHECK DAM WHEN CHANNEL TO CREEK IS FORMED. LEAVE IN PLACE TILL MITIGATION AREA IS STABLE.

6. STRAW MULCH, EROSION CONTROL BLANKET, AND CLEAR PLASTIC COVERING ARE FOR WET WEATHER USE. SEE SPECIAL CONDITIONS.

7. PER ARGEEMENT WITH CITY OF BOTHELL, AGREEMENT # GCA 0570.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. Timm	10/96			REGION NO.	STATE	FED. AID. PROJ. NO.	ENVIRONMENTAL & ENGINEERING SERVICE CENTER
ENTERED BY	M. Saleem	10/96			10	WASH		
CHECKED BY	R. Thurmond	10/96			JOB NUMBER 96WO35			
PROJ. ENGR.	R. Kinoshita	10/96						
REGION ADM.	J. Okamoto	10/96			CONTRACT NO. 5-0594			
		DATE	DATE	REVISION	BY			

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TESC QT-5

TEMPORARY EROSION CONTROL QUANTITY TABULATION

SHEET 62 OF 663 SHEETS

QUANTITY TABULATION - TEMPORARY EROSION CONTROL

NOTE:
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THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

TESC	LOCATION		SEEDING, FERTILIZING, AND MULCHING	EROSION CONTROL BLANKET	CLEAR PLASTIC COVERING	ROCK CHECK DAM	STRAW BALE	GRAVEL FILTER BERM	INLET PROTECTION		EROSION CONTROL SLOT DRAIN	PLASTIC BARRIER FENCE	STABILIZED CONSTRUCTION ENTERANCE	MUD PALLIATIVE	STRAW MULCH	CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE		SEE GENERAL NOTES
	LL-LINE		HA	M2	M2	EACH	EACH	EACH	EACH		M	M	M2	M3	HA	M		
7	LL 40+120 TO LL 40+411 LT		0.12												0.12			1,2,4,6
7	LL 40+120 TO LL 41+866 RT												360	120				1,2
7	LL 40+135 LT						8											1,2
8	LL 40+165 LT						8											1,2
8	LL 40+195 LT						8											1,2
8	LL 40+220 LT						8											1,2
8	LL 40+260 LT						8											1,2
8	LL 40+265								1									
8	LL 40+280 LT						8											1,2
8	LL 40+295								1									
8	LL 40+320 LT					1												1,2
8	LL 40+330 TO LL 41+685 RT		0.68	2130											0.47			1,2,4,6
8	LL 40+345								1									
8	LL 40+350 LT					1												1,2
8	LL 40+370 LT					1												1,2
9	LL 40+620 TO LL 40+630 LT											40						1,2
9	LL 40+700 RT								1									1,2
9	LL 40+705 RT						8											1,2
9	LL 40+710 RT								1									1,2
9	LL 40+725 RT							1										1,2
10	LL 40+815 TO LL 40+830 LT											28						1,2
10	LL 40+825 RT						12											1,2
10	LL 40+840 RT								3									1,2
10	LL 40+865 RT							1										1,2
10	LL 40+959								1									
10	LL 40+960 RT							1										1,2
10	LL 40+970 RT								1									1,2
10	LL 40+972 RT								1									1,2
10	LL 41+053								1									
10	LL 41+060 RT							1										1,2
	SHEET TOTAL		0.8	2130		3	68	4	12			68	360	120	0.587			

GENERAL NOTES:

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3. THE STORMWATER FACILITIES INCLUDING THE DETENTION POND AND THE WATER QUALITY VAULT AT NE 195TH ST SHALL BE INSTALLED AS SOON AS POSSIBLE, DURING PHASE ONE OF THE PROJECT. THE STABILIZED CONSTRUCTION ENTERANCE FOR THE WATER QUALITY VAULT SHALL BE LEFT IN PLACE AND MAINTAINED FOR FREQUENT SEDIMENT REMOVAL FROM THE VAULT DURING CONSTRUCTION

4. SEE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS FOR SEEDING, FERTILIZING, AND MULCHING WORK DESCRIPTION.

5. SEE MITIGATION PLAN FOR GRADING AND PLANTING PLAN. CONSTRUCT SILT FENCE AT TIME OF CLEARING. CONSTRUCT STRAW BALE CHECK DAM WHEN CHANNEL TO CREEK IS FORMED. LEAVE IN PLACE TILL MITIGATION AREA IS STABLE.

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7. PER ARGEEMENT WITH CITY OF BOTHELL, AGREEMENT # GCA 0570.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. Timm	10/96		
ENTERED BY	M. Saleem	10/96		
CHECKED BY	R. Thurmond	10/96		
PROJ. ENGR.	R. Kinoshita	10/96		
REGION ADM.	J. Okamoto	10/96		
		DATE	DATE	REVISION BY

REGION NO. 10 | STATE WASH | FED. AID. PROJ. NO.

JOB NUMBER 96WO35

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL QUANTITY TABULATION

TESC QT-6

SHEET 63 OF 663 SHEETS

QUANTITY TABULATION - TEMPORARY EROSION CONTROL

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.
THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

TESC	LOCATION		SEEDING, FERTILIZING, AND MULCHING	EROSION CONTROL BLANKET	CLEAR PLASTIC COVERING	ROCK CHECK DAM	STRAW BALE	GRAVEL FILTER BERM	INLET PROTECTION		EROSION CONTROL SLOT DRAIN	PLASTIC BARRIER FENCE	STABILIZED CONSTRUCTION ENTERANCE	MUD PALLIATIVE	STRAW MULCH	CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE		SEE GENERAL NOTES
			HA	M2	M2	EACH	EACH	EACH	EACH		M	M	M2	M3	HA	M		
	LL-LINE																	
11	LL 41+076 RT								1									1,2
11	LL 41+080 RT								1									1,2
11	LL 41+160 RT							1										1,2
11	LL 41+207 RT								1									1,2
11	LL 41+210 RT								1									1,2
11	LL 41+220 RT						12											1,2
11	LL 41+245 RT							1										1,2
12	LL 41+430 RT							1										1,2
12	LL 41+449 RT								1									1,2
12	LL 41+490 RT						8											1,2
12	LL 41+496 RT								1									1,2
13	LL 41+690 TO LL 41+866 RT		0.08												0.08			1,2,4,6
13	LL 41+740 TO LL 41+915 LT		0.08												0.08			1,2,4,6
13	LL 41+790 RT						8											1,2
13	LL 41+860 RT						8											1,2
13	LL 41+866 LT								1									1,2
	LR-LINE																	
7	LR 40+120 TO LR 40+275 RT		0.17		1700													1,2,4,6
7	LR 40+120 TO LR 41+920 LT												360	120				1,2
7	LR 40+125 LT							1										3
8	LR 40+162 LT								2									1,2
8	LR 40+165 TO LR 40+187 RT											50						1,2
8	LR 40+190 LT							1										1,2
8	LR 40+250 LT						8											1,2
8	LR 40+255								2									1,2
8	LR 40+255 LT								2									1,2
8	LR 40+265 LT							1										1,2
8	LR 40+330 TO LR 40+770 LT		0.21	2100														1,2,4,6
8	LR 40+340 LT						8											1,2
8	LR 40+415 LT					1												1,2
	SHEET TOTAL		0.54	2100	1700	1	52	6	13			50	360	120	0.16			

GENERAL NOTES:

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3. THE STORMWATER FACILITIES INCLUDING THE DETENTION POND AND THE WATER QUALITY VAULT AT NE 195TH ST SHALL BE INSTALLED AS SOON AS POSSIBLE, DURING PHASE ONE OF THE PROJECT. THE STABILIZED CONSTRUCTION ENTERANCE FOR THE WATER QUALITY VAULT SHALL BE LEFT IN PLACE AND MAINTAINED FOR FREQUENT SEDIMENT REMOVAL FROM THE VAULT DURING CONSTRUCTION

4. SEE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS FOR SEEDING, FERTILIZING, AND MULCHING WORK DESCRIPTION.

5. SEE MITIGATION PLAN FOR GRADING AND PLANTING PLAN. CONSTRUCT SILT FENCE AT TIME OF CLEARING. CONSTRUCT STRAW BALE CHECK DAM WHEN CHANNEL TO CREEK IS FORMED. LEAVE IN PLACE TILL MITIGATION AREA IS STABLE.

6. STRAW MULCH, EROSION CONTROL BLANKET, AND CLEAR PLASTIC COVERING ARE FOR WET WEATHER USE. SEE SPECIAL CONDITIONS.

7. PER ARGEEMENT WITH CITY OF BOTHELL, AGREEMENT # GCA 0570.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. Timm	10/96		
ENTERED BY	M. Saleem	10/96		
CHECKED BY	R. Thurmond	10/96		
PROJ. ENGR.	R. Kinoshita	10/96		
REGION ADM.	J. Okamoto	10/96		
		DATE	DATE	REVISION BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96WO35

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL QUANTITY TABULATION

TESC QT-7

SHEET 64 OF 663 SHEETS

QUANTITY TABULATION - TEMPORARY EROSION CONTROL

NOTE:
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TESC	LOCATION		SEEDING, FERTILIZING, AND MULCHING	EROSION CONTROL BLANKET	CLEAR PLASTIC COVERING	ROCK CHECK DAM	STRAW BALE	GRAVEL FILTER BERM	INLET PROTECTION		EROSION CONTROL SLOT DRAIN	PLASTIC BARRIER FENCE	STABILIZED CONSTRUCTION ENTERANCE	MUD PALLIATIVE	STRAW MULCH	CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE		SEE GENERAL NOTES
			HA	M2	M2	EACH	EACH	EACH	EACH		M	M	M2	M3	HA	M		
	LR-LINE																	
8	LR 40+420 LT								2									1,2
8	LR 40+440 LT					1												1,2
8	LR 40+445 TO LR 40+515 RT											62						1,2
9	LR 40+463								1									1,2
9	LR 40+465								1									1,2
9	LR 40+485 LT					1												1,2
9	LR 40+510 LT					1												1,2
9	LR 40+540 LT					1												1,2
9	LR 40+555 LT								2									1,2
9	LR 40+565 LT					1												1,2
9	LR 40+590 LT					1												1,2
9	LR 40+610 LT					1												1,2
9	LR 40+635 LT					1												1,2
9	LR 40+647								2									1,2
9	LR 40+648 LT								1									1,2
9	LR 40+665 LT					1												1,2
9	LR 40+688 TO LR 40+765 RT											80						1,2
9	LR 40+690 LT					1												1,2
9	LR 40+720 LT					1												1,2
9	LR 40+745 LT					1												1,2
10	LR 41+068								2									
10	LR 40+764 LT					1												1,2
10	LR 40+785 TO LR 40+857 RT											94						1,2
10	LR 40+810 LT							1							0.02			1,2
10	LR 40+820 TO LR 40+900 RT		0.02															
10	LR 40+825								1									1,2
10	LR 40+839								1									1,2
10	LR 40+840 RT						12											1,2
10	LR 40+847 RT & LT								3									
10	LR 40+908 LT								2									1,2
	SHEET TOTAL		0.02			13	12	1	18			236			0.02			

GENERAL NOTES:

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5. SEE MITIGATION PLAN FOR GRADING AND PLANTING PLAN. CONSTRUCT SILT FENCE AT TIME OF CLEARING. CONSTRUCT STRAW BALE CHECK DAM WHEN CHANNEL TO CREEK IS FORMED. LEAVE IN PLACE TILL MITIGATION AREA IS STABLE.

6. STRAW MULCH, EROSION CONTROL BLANKET, AND CLEAR PLASTIC COVERING ARE FOR WET WEATHER USE. SEE SPECIAL CONDITIONS.

7. PER ARGEEMENT WITH CITY OF BOTHELL, AGREEMENT # GCA 0570.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. Timm	10/96			
ENTERED BY	M. Saleem	10/96			
CHECKED BY	R. Thurmond	10/96			
PROJ. ENGR.	R. Kinoshita	10/96			
REGION ADM.	J. Okamoto	10/96			
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	
JOB NUMBER 96WO35		
CONTRACT NO. 5054		

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL QUANTITY TABULATION

TESC QT-8

SHEET 65 OF 663 SHEETS

QUANTITY TABULATION - TEMPORARY EROSION CONTROL

NOTE:
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THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

TESC	LOCATION		SEEDING, FERTILIZING, AND MULCHING	EROSION CONTROL BLANKET	CLEAR PLASTIC COVERING	ROCK CHECK DAM	STRAW BALE	GRAVEL FILTER BERM	INLET PROTECTION		EROSION CONTROL SLOT DRAIN	PLASTIC BARRIER FENCE	STABILIZED CONSTRUCTION ENTERANCE	MUD PALLIATIVE	STRAW MULCH	CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE		SEE GENERAL NOTES
			HA	M2	M2	EACH	EACH	EACH	EACH		M	M	M2	M3	HA	M		
	LR-LINE																	
10	LR 40+915 LT							1										1,2
10	LR 41+015 LT							1										1,2
10	LR 41+029								2									1,2
10	LR 41+033 LT								2									1,2
10	LR 41+068								2									
11	LR 41+075 LT						8											1,2
11	LR 41+094								1									1,2
11	LR 41+122 LT								2									1,2
11	LR 41+140 LT						8											1,2
11	LR 41+149 TO 41+220		0.04												0.04			
11	LR 41+156 TO LR 41+185											75						1,2
11	LR 41+190 RT						12											1,2
11	LR 41+196								2									1,2
11	LR 41+200 LT						16											1,2
11	LR 41+220 LT						8											1,2
11	LR 41+243 LT								3									1,2
11	LR 41+273 LT								1									1,2
11	LR 41+290 LT						8											1,2
11	LR 41+343 LT								2									1,2
11	LR 41+380 LT						8											1,2
12	LR 41+420 TO LR 41+500 RT															100		1,2
12	LR 41+440 RT TO LR 41+496		0.03						1						0.03			1,2
12	LR 41+440 TO LR 41+733 LT		0.18	1800														1,2,4,6
12	LR 41+480 LT						12											1,2
12	LR 41+500 RT								1									1,2
12	LR 41+519 LT								1									1,2
12	LR 41+523 LT								1									1,2
12	LR 41+525 LT						8											1,2
12	LR 41+530 LT					1												1,2
12	LR 41+560 LT					1												1,2
12	LR 41+640 LT						8											1,2
13	LR 41+710 LT						8											1,2
13	LR 41+840 TO LR 41+868 LT											28						1,2
	SHEET TOTAL		0.25	1800		2	104	2	21			103			0.07	100		

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4. SEE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS FOR SEEDING, FERTILIZING, AND MULCHING WORK DESCRIPTION.

5. SEE MITIGATION PLAN FOR GRADING AND PLANTING PLAN. CONSTRUCT SILT FENCE AT TIME OF CLEARING. CONSTRUCT STRAW BALE CHECK DAM WHEN CHANNEL TO CREEK IS FORMED. LEAVE IN PLACE TILL MITIGATION AREA IS STABLE.

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7. PER ARGEEMENT WITH CITY OF BOTHELL, AGREEMENT # GCA 0570.

FOR "AS CONSTRUCTED PLANS" ONLY

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ENTERED BY	M. Saleem	10/96		
CHECKED BY	R. Thurmond	10/96		
PROJ. ENGR.	R. Kinoshita	10/96		
REGION ADM.	J. Okamoto	10/96		
		DATE	DATE	REVISION

BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	
JOB NUMBER 96WO35		
CONTRACT NO. 5054		

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL QUANTITY TABULATION

TESC QT-9

SHEET 66 OF 663 SHEETS

QUANTITY TABULATION - TEMPORARY EROSION CONTROL

NOTE:
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			HA	M2	M2	EACH	EACH	EACH	EACH		M	M	M2	M3	HA	M		
	W-N LINE																	
2	W-N 8+280 TO W-N 8+644 RT															400		1,2
2	W-N 8+285 TO W-N 8+475 RT		0.08	800														1,2,4,6
2	W-N 8+300 TO W-N 8+645 RT											352						1,2
2	W-N 8+315 TO W-N 8+318 RT								1									1,2
2	W-N 8+345 LT						13											1,2
2	W-N 8+348 TO W-N 8+545 LT		0.11	1100														1,2,4,6
2	W-N 8+351								1									1,2
2	W-N 8+355 LT						10											1,2
2	W-N 8+417 RT								2									1,2
2	W-N 8+482 LT								1									1,2
2	W-N 8+482 LT TO NBCD 8+570 LT								1									1,2
2,3	W-N 8+340 TO W-N 8+680 LT											175						1,2
	NBCD LINE																	
3	NBCD 8+570 TO NBCD 8+649 LT								1									1,2
3	NBCD 8+570 TO NBCD 9+842 LT												180	60				1,2
3	NBCD 8+649								1									1,2
3	NBCD 8+700 LT								2									1,2
3	NBCD 8+742 TO NBCD 9+138 RT						6				410							1,2
3	NBCD 8+745.5 LT								2									1,2
3	NBCD 8+745.5 LT								1									1,2
3	NBCD 8+791.5 LT								2									1,2
3	NBCD 8+814								1									1,2
3	NBCD 8+830 LT								1									1,2
3	NBCD 8+837 LT								2									1,2
3,4	NBCD 8+645 TO NBCD 9+172 RT											545						1,2
3,4,5	NBCD 8+644 TO NBCD 9+236 RT															600		1,2
4	NBCD 8+852 LT								1									1,2
4	NBCD 8+867 LT								2									1,2
4	NBCD 8+891 LT								1									1,2
4	NBCD 8+913 LT								1									1,2
4	NBCD 8+959 LT								1									1,2
	SHEET TOTAL		0.19	1900			29		25		410	1072	180	60		1000		

GENERAL NOTES:

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4. SEE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS FOR SEEDING, FERTILIZING, AND MULCHING WORK DESCRIPTION.

5. SEE MITIGATION PLAN FOR GRADING AND PLANTING PLAN. CONSTRUCT SILT FENCE AT TIME OF CLEARING. CONSTRUCT STRAW BALE CHECK DAM WHEN CHANNEL TO CREEK IS FORMED. LEAVE IN PLACE TILL MITIGATION AREA IS STABLE.

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7. PER ARGEEMENT WITH CITY OF BOTHELL, AGREEMENT # GCA 0570.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. Timm	10/96		
ENTERED BY	M. Saleem	10/96		
CHECKED BY	R. Thurmond	10/96		
PROJ. ENGR.	R. Kinoshita	10/96		
REGION ADM.	J. Okamoto	10/96		
		DATE	DATE	REVISION BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96WO35

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL QUANTITY TABULATION

TESC QT-10

SHEET 67 OF 663 SHEETS

QUANTITY TABULATION - TEMPORARY EROSION CONTROL

NOTE:
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TESC	LOCATION		SEEDING, FERTILIZING, AND MULCHING	EROSION CONTROL BLANKET	CLEAR PLASTIC COVERING	ROCK CHECK DAM	STRAW BALE	GRAVEL FILTER BERM	INLET PROTECTION		EROSION CONTROL SLOT DRAIN	PLASTIC BARRIER FENCE	STABILIZED CONSTRUCTION ENTERANCE	MUD PALLIATIVE	STRAW MULCH	CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE		SEE GENERAL NOTES
	NBCD LINE		HA	M2	M2	EACH	EACH	EACH	EACH		M	M	M2	M3	HA	M		
4	NBCD 9+020 LT								1									1,2
4	NBCD 9+081 LT								1									1,2
4	NBCD 9+118.5 LT & RT								3									1,2
4	NBCD 9+190 TO NBCD 9+235 RT											95						1,2
4	NBCD 9+202 RT								1									1,2
5	NBCD 9+260 LT								1									1,2
5	NBCD 9+280 TO 9+360 RT (NW-3 POND)		0.12	0.12									180					1,2,3
5	NBCD 9+284 RT							1										1,2
5	NBCD 9+378 RT								1									1,2
5	NBCD 9+434 RT								1									1,2
6	NBCD 9+485 TO 9+540 RT (NW-3 VAULT)												180					1,2,3
6	NBCD 9+535 RT								1									1,2
6	NBCD 9+711 RT								2									1,2
6	NBCD 9+720 TO NBCD 9+842 RT		0.06												0.06			1,2,4,6
6	NBCD 9+725 RT						8											1,2
6	NBCD 9+803 RT								2									1,2
7	NBCD 9+840 RT						8											1,2
	195TH-S LINE																	
4	195TH-S 9+140 TO 195TH-S 9+415 LT		0.19	1100											0.08			1,2,4,6
4	195TH-S 9+155 TO 195TH-S 9+360															250		1,2
4	195TH-S 9+155 TO 195TH-S 9+405 LT											255						1,2
5	195TH-S 9+205 TO 195TH-S 9+380 RT		0.06	600														1,2,4,6
5	195TH-S 9+300 TO 195TH-S 9+375		0.03															7
5	195TH-S 9+370						16											1,2
	N-195TH LINE																	
5	N-195TH 9+235 TO N-195TH 9+285 RT											49						1,2
5	N-195TH 9+236 TO N-195TH 9+320 RT															100		1,2
5	N-195TH 9+242		0.02												0.02			1,2,4,6
5	N-195TH 9+255 LT TO N-195TH 9+375 LT		0.06	600														1,2,4,6
	SHEET TOTAL		0.54	2300			32	1	14			399	360		0.16	350		

GENERAL NOTES:

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FOR "AS CONSTRUCTED PLANS" ONLY

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		DATE	DATE	REVISION

BY

REGION NO. 10 | STATE WASH | FED. AID. PROJ. NO.

JOB NUMBER 96WO35

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL QUANTITY TABULATION

TESC QT-11

SHEET 68 OF 663 SHEETS

QUANTITY TABULATION - TEMPORARY EROSION CONTROL

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TESC	LOCATION		SEEDING, FERTILIZING, AND MULCHING	EROSION CONTROL BLANKET	CLEAR PLASTIC COVERING	ROCK CHECK DAM	STRAW BALE	GRAVEL FILTER BERM	INLET PROTECTION		EROSION CONTROL SLOT DRAIN	PLASTIC BARRIER FENCE	STABILIZED CONSTRUCTION ENTERANCE	MUD PALLIATIVE	STRAW MULCH	CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE		SEE GENERAL NOTES
			HA	M2	M2	EACH	EACH	EACH	EACH		M	M	M2	M3	HA	M		
	S-195TH LINE																	
5	S-195TH 9+410 TO S-195TH 9+560 LT															200		1,2
5	S-195TH 9+415 TO S-195TH 9+530 LT											248						1,2
5,6	S-195TH 9+408 TO S-195TH 9+767 RT		0.18												0.18			1,2,4,6
5,6	S-195TH 9+410 TO S-195TH 9+825 LT		0.17	1160											0.05			1,2,4,6
6	S-195TH 9+480 LT						8											1,2
6	S-195TH 9+515 LT						8											1,2
6	S-195TH 9+545 LT						8											1,2
6	S-195TH 9+610 LT						8											1,2
6	S-195TH 9+655 LT						8											1,2
6	S-195TH 9+672								1									1,2
6	S-195TH 9+675 LT						8											1,2
6	S-195TH 9+676 LT								1									1,2
6	S-195TH 9+685 LT						8											1,2
6	S-195TH 9+720 LT						8											1,2
6	S-195TH 9+755 LT						8											1,2
6	S-195TH 9+790 LT						8											1,2
	195TH-N LINE																	
5	195TH-N 9+425 TO 195TH-N 9+490 LT											114						1,2
5	195TH-N 9+430 TO 195TH-N 9+570 RT		0.04												0.04			1,2,4,6
5	195TH-N 9+440 TO 195TH-N 9+497 LT		0.03															7
5	195TH-N 9+445 RT						5											1,2
5	195TH-N 9+450 TO 195TH-N 9+510 RT															100		1,2
5	195TH-N 9+460 TO 195TH-N 9+595 LT		0.04												0.04			1,2,4,6
6	195TH-N 9+482 RT								1									1,2,7
6	195TH-N 9+510 RT						8											1,2
6	195TH-N 9+550 RT								1									1,2,7
6	195TH-N 9+570 RT						6											1,2
6	195TH-N 9+609 RT								1									1,2
6	195TH-N 9+617 RT								1									1,2
	SHEET TOTAL		0.46	1160			99		6			362			0.314	300		

GENERAL NOTES:

1. THE CONTRACTOR SHALL KEEP AN EROSION CONTROL PLAN ON SITE THAT SHALL BE MODIFIED TO REFLECT ACTUAL CONDITIONS AND PHASING OF THE PROJECT.

2. DETAILS AND NOTES FOR CONSTRUCTION ARE FOUND ON THE TESC DETAIL SHEETS.

3. THE STORMWATER FACILITIES INCLUDING THE DETENTION POND AND THE WATER QUALITY VAULT AT NE 195TH ST SHALL BE INSTALLED AS SOON AS POSSIBLE, DURING PHASE ONE OF THE PROJECT. THE STABILIZED CONSTRUCTION ENTERANCE FOR THE WATER QUALITY VAULT SHALL BE LEFT IN PLACE AND MAINTAINED FOR FREQUENT SEDIMENT REMOVAL FROM THE VAULT DURING CONSTRUCTION

4. SEE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS FOR SEEDING, FERTILIZING, AND MULCHING WORK DESCRIPTION.

5. SEE MITIGATION PLAN FOR GRADING AND PLANTING PLAN. CONSTRUCT SILT FENCE AT TIME OF CLEARING. CONSTRUCT STRAW BALE CHECK DAM WHEN CHANNEL TO CREEK IS FORMED. LEAVE IN PLACE TILL MITIGATION AREA IS STABLE.

6. STRAW MULCH, EROSION CONTROL BLANKET, AND CLEAR PLASTIC COVERING ARE FOR WET WEATHER USE. SEE SPECIAL CONDITIONS.

7. PER ARGEEMENT WITH CITY OF BOTHELL, AGREEMENT # GCA 0570.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. Timm	10/96			
ENTERED BY	M. Saleem	10/96			
CHECKED BY	R. Thurmond	10/96			
PROJ. ENGR.	R. Kinoshita	10/96			
REGION ADM.	J. Okamoto	10/96			
		DATE	DATE	REVISION	BY

REGION NO. 10 | STATE WASH | FED. AID. PROJ. NO.

JOB NUMBER 96WO35

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL QUANTITY TABULATION

TESC QT-12

SHEET 69 OF 663 SHEETS

QUANTITY TABULATION - TEMPORARY EROSION CONTROL

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.
THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

TESC	LOCATION		SEEDING, FERTILIZING, AND MULCHING	EROSION CONTROL BLANKET	CLEAR PLASTIC COVERING	ROCK CHECK DAM	STRAW BALE	GRAVEL FILTER BERM	INLET PROTECTION		EROSION CONTROL SLOT DRAIN	PLASTIC BARRIER FENCE	STABILIZED CONSTRUCTION ENTERANCE	MUD PALLIATIVE	STRAW MULCH	CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE		SEE GENERAL NOTES
			HA	M2	M2	EACH	EACH	EACH	EACH		M	M	M2	M3	HA	M		
	AR-4 LINE																	
16	AR-4 42+761								1									1,2
16	AR-4 42+763 LT								1									1,2
16	AR-4 42+822 RT								1									1,2
16	AR-4 42+832 CL								1									1,2
	SHEET TOTAL								4									
	PROJECT TOTAL		4.57	12490	4650	20	624	53	211		410	4249	2112	500	2.68	2644		

GENERAL NOTES:

1. THE CONTRACTOR SHALL KEEP AN EROSION CONTROL PLAN ON SITE THAT SHALL BE MODIFIED TO REFLECT ACTUAL CONDITIONS AND PHASING OF THE PROJECT.

2. DETAILS AND NOTES FOR CONSTRUCTION ARE FOUND ON THE TESC DETAIL SHEETS.

3. THE STORMWATER FACILITIES INCLUDING THE DETENTION POND AND THE WATER QUALITY VAULT AT NE 195TH ST SHALL BE INSTALLED AS SOON AS POSSIBLE, DURING PHASE ONE OF THE PROJECT. THE STABILIZED CONSTRUCTION ENTERANCE FOR THE WATER QUALITY VAULT SHALL BE LEFT IN PLACE AND MAINTAINED FOR FREQUENT SEDIMENT REMOVAL FROM THE VAULT DURING CONSTRUCTION

4. SEE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS FOR SEEDING, FERTILIZING, AND MULCHING WORK DESCRIPTION.

5. SEE MITIGATION PLAN FOR GRADING AND PLANTING PLAN. CONSTRUCT SILT FENCE AT TIME OF CLEARING. CONSTRUCT STRAW BALE CHECK DAM WHEN CHANNEL TO CREEK IS FORMED. LEAVE IN PLACE TILL MITIGATION AREA IS STABLE.

6. STRAW MULCH, EROSION CONTROL BLANKET, AND CLEAR PLASTIC COVERING ARE FOR WET WEATHER USE. SEE SPECIAL CONDITIONS.

7. PER ARGEEMENT WITH CITY OF BOTHELL, AGREEMENT # GCA 0570.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. Timm	10/96		
ENTERED BY	M. Saleem	10/96		
CHECKED BY	R. Thurmond	10/96		
PROJ. ENGR.	R. Kinoshita	10/96		
REGION ADM.	J. Okamoto	10/96		
		DATE	DATE	REVISION

BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96WO35

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL QUANTITY TABULATION

TESC QT-13

SHEET 70 OF 663 SHEETS

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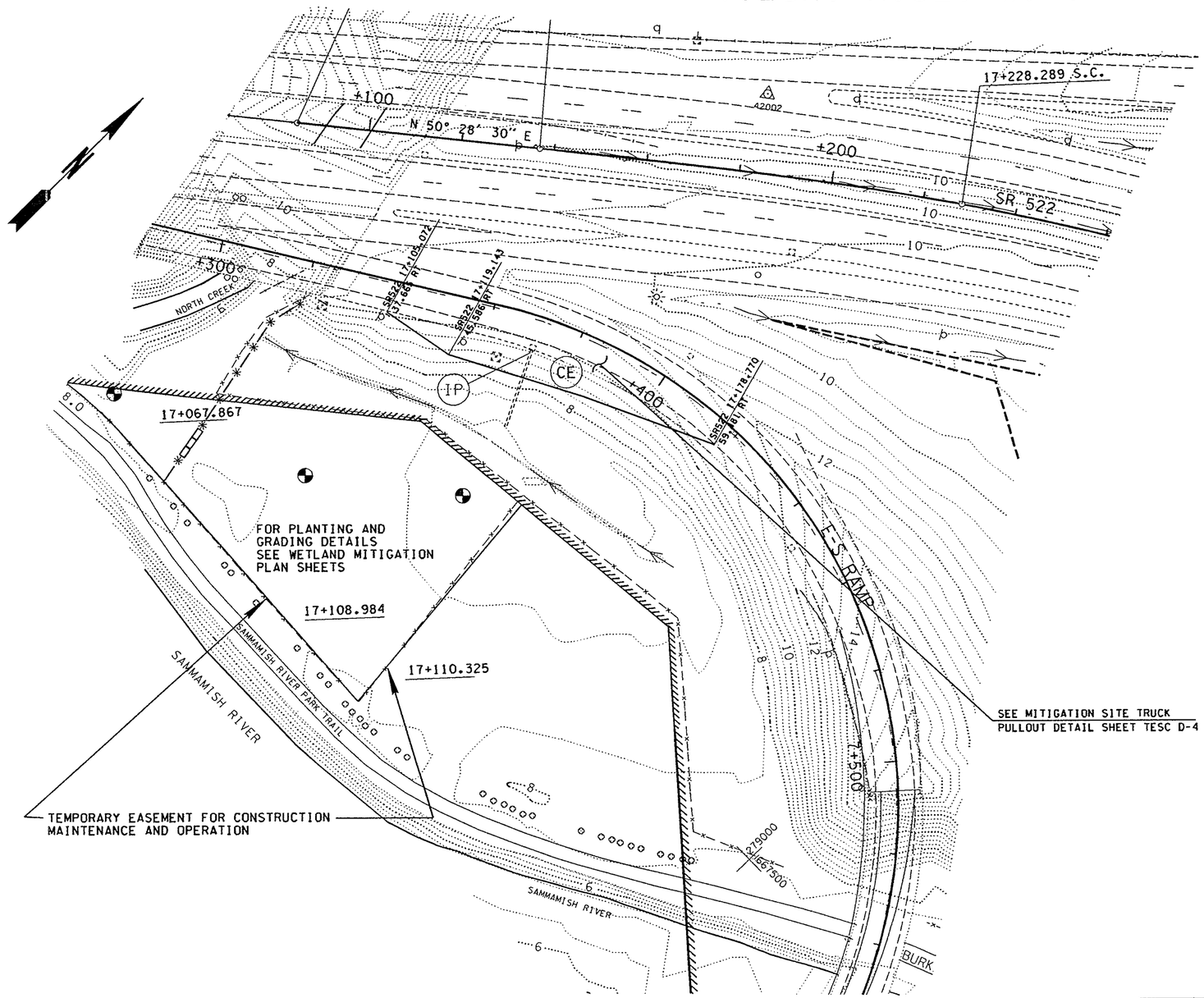

CONSTRUCTION SEQUENCE

1. CONDUCT CONSTRUCTION KICKOFF MEETING WITH DOT CONSTRUCTION OFFICE, STATE DEPARTMENT OF FISH AND WILDLIFE, CITY OF BOTHELL, AND REPRESENTATIVES OF ALL PROJECT SUBCONTRACTORS.
2. CLEAN ALL EXISTING CATCH BASINS AND DRAINAGE STRUCTURES IN THE PHASE 1 WORK AREA.
3. PLACE ALL PHASE 1 WORK AREA PLASTIC BARRIER FENCE AND INLET PROTECTION PER PLANS.
4. CONSTRUCT NW3 POND AND VAULT AT NE 195TH STREET AS DEPICTED IN PLANS.
5. REROUTE STORM FLOWS THROUGH NEW SEDIMENT POND BY CONSTRUCTION OF STORM DRAIN LINES D-3/29, D-4/6, 8, 9, 18, 19, AND 20, D-5/4, 5, 25, 26, 29, AND 30, AND PLUG EXISTING STORM LINE D-5/23.
6. PLACE ALL REMAINING PHASE 1 WORK AREA EROSION CONTROL, EXCEPT FACILITIES MEANT FOR HASTY PLACEMENT SUCH AS GRAVEL FILTER BERMS AND STRAW BALE CHECK DAMS.
7. START CONSTRUCTION OF PHASE 1 OF THE PROJECT. INSTALL HASTY PLACEMENT TESC FACILITIES AS WEATHER DICTATES, AND CONSTRUCTION NECESSITATES.
8. REMOVE ANY TESC FACILITIES THAT HAVE BECOME UNNECESSARY AS SOON AS AREAS THEY ARE PROTECTING HAVE BEEN STABILIZED.
9. CLEAN ALL EXISTING CATCH BASINS AND DRAINAGE STRUCTURES IN THE PHASE 2 WORK AREA.
10. INSTALL PHASE 2 AREA PLASTIC BARRIER FENCE AND INLET PROTECTION PER PLANS.
11. INSTALL ALL REMAINING PHASE 2 AREA TESC FACILITIES, EXCEPT FOR THOSE MEANT FOR HASTY PLACEMENT. STOCKPILE ENOUGH MATERIALS FOR HASTY PLACEMENT FACILITIES.
12. CONSTRUCT PHASE 2 OF THE PROJECT. DURING CONSTRUCTION, KEEP NW-3 VAULT FREE OF SEDIMENT ACCUMULATIONS.
13. COMPLETE PHASE 2 OF THE PROJECT.
14. REMOVE REMAINING TESC FACILITIES AS PROJECT AREAS ARE STABILIZED.
15. REMOVE REMAINING PLASTIC BARRIER FENCE.
16. CLEAN ALL EXISTING AND NEWLY CONSTRUCTED CATCH BASINS AND OTHER DRAINAGE FACILITIES IN ALL PHASES OF THE PROJECT PRIOR TO FINAL ACCEPTANCE OF THE WORK.

NOTE: CONSTRUCTION OF THIS PROJECT WILL TAKE APPROXIMATELY TWO YEARS. CONSTRUCTION WILL INCLUDE BOTH WET WEATHER AND DRY WEATHER CONSTRUCTION. THESE CONDITIONS MAY REQUIRE THAT MORE STRINGENT MEASURES BE EMPLOYED TO PROTECT SENSITIVE AREAS DOWNSTREAM OF THE PROJECT. CONDITIONS MAY ALSO DICTATE THAT THE PROJECT SCHEDULE BE MODIFIED. THE CONTRACTOR SHALL KEEP AN EROSION CONTROL PLAN ON SITE THAT IS MODIFIED TO REFLECT ACTUAL CONDITIONS AND PHASING OF THE PROJECT. ALL ADDITIONAL MEASURES NECESSARY SHALL BE DESIGNED AND CONSTRUCTED PER THE HIGHWAY RUNOFF MANUAL. ALL REVISIONS SHALL BE REVIEWED AND APPROVED BY THE CONSTRUCTION OFFICE PRIOR TO IMPLEMENTATION.

FOR "AS CONSTRUCTED PLANS" ONLY

TESC LEGEND

- INLET PROTECTION (IP)
- STABILIZED CONSTRUCTION ENTRANCE (CE)
- ROCK CHECK DAM
- GRAVEL FILTER BERM
- STRAW BALE BARRIER
- SEEDING, FERTILIZING, AND MULCHING, WITH ADDITIONAL STRAW MULCH
- SEEDING, FERTILIZING, AND MULCHING WITH CLEAR PLASTIC COVERING
- SEEDING, FERTILIZING, AND MULCHING WITH EROSION CONTROL BLANKET
- PLASTIC BARRIER FENCE
- CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

0 10 20 30 40 50
SCALE IN METERS

DESIGNED BY F. TIMM	11/4/96				
ENTERED BY B. SAVILLE	11/4/96				
CHECKED BY N. ABEDIN	11/4/96				
PROJ. ENGR. R.KINOSHITA	11/4/96				
REGIONAL ADM. J. OKAMOTO	11/4/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO. 5054		

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL PLAN

TESC 1

SHEET 71 OF 663 SHEETS

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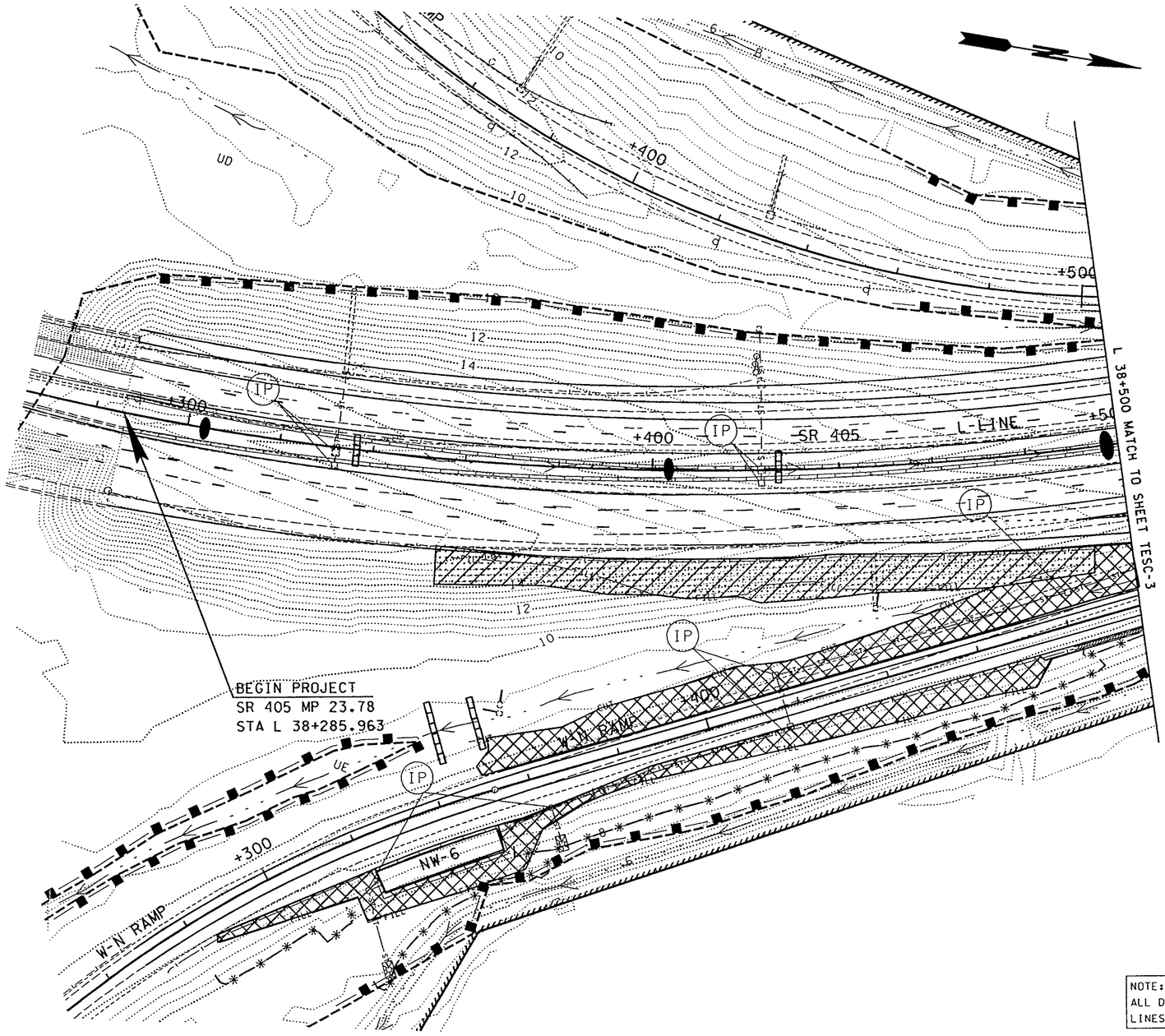

CONSTRUCTION SEQUENCE

1. CONDUCT CONSTRUCTION KICKOFF MEETING WITH DOT CONSTRUCTION OFFICE, STATE DEPARTMENT OF FISH AND WILDLIFE, CITY OF BOTHELL, AND REPRESENTATIVES OF ALL PROJECT SUBCONTRACTORS.
2. CLEAN ALL EXISTING CATCH BASINS AND DRAINAGE STRUCTURES IN THE PHASE 1 WORK AREA.
3. PLACE ALL PHASE 1 WORK AREA PLASTIC BARRIER FENCE AND INLET PROTECTION PER PLANS.
4. CONSTRUCT NW-3 POND AND VAULT AT NE 195TH STREET AS DEPICTED IN PLANS.
5. REROUTE STORM FLOWS THROUGH NEW SEDIMENT POND BY CONSTRUCTION OF STORM DRAIN LINES D-3/29, D-4/6, 8, 9, 18, 19, AND 20, D-5/4, 5, 25, 26, 29, AND 30, AND PLUG EXISTING STORM LINE D-5/23.
6. PLACE ALL REMAINING PHASE 1 WORK AREA EROSION CONTROL, EXCEPT FACILITIES MEANT FOR HASTY PLACEMENT SUCH AS GRAVEL FILTER BERMS AND STRAW BALE CHECK DAMS.
7. START CONSTRUCTION OF PHASE 1 OF THE PROJECT. INSTALL HASTY PLACEMENT TESC FACILITIES AS WEATHER DICTATES, AND CONSTRUCTION NECESSITATES.
8. REMOVE ANY TESC FACILITIES THAT HAVE BECOME UNNECESSARY AS SOON AS AREAS THEY ARE PROTECTING HAVE BEEN STABILIZED.
9. CLEAN ALL EXISTING CATCH BASINS AND DRAINAGE STRUCTURES IN THE PHASE 2 WORK AREA.
10. INSTALL PHASE 2 AREA PLASTIC BARRIER FENCE AND INLET PROTECTION PER PLANS.
11. INSTALL ALL REMAINING PHASE 2 AREA TESC FACILITIES, EXCEPT FOR THOSE MEANT FOR HASTY PLACEMENT. STOCKPILE ENOUGH MATERIALS FOR HASTY PLACEMENT FACILITIES.
12. CONSTRUCT PHASE 2 OF THE PROJECT. DURING CONSTRUCTION, KEEP NW-3 VAULT FREE OF SEDIMENT ACCUMULATIONS.
13. COMPLETE PHASE 2 OF THE PROJECT.
14. REMOVE REMAINING TESC FACILITIES AS PROJECT AREAS ARE STABILIZED.
15. REMOVE REMAINING PLASTIC BARRIER FENCE.
16. CLEAN ALL EXISTING AND NEWLY CONSTRUCTED CATCH BASINS AND OTHER DRAINAGE FACILITIES IN ALL PHASES OF THE PROJECT PRIOR TO FINAL ACCEPTANCE OF THE WORK.

NOTE: CONSTRUCTION OF THIS PROJECT WILL TAKE APPROXIMATELY TWO YEARS. CONSTRUCTION WILL INCLUDE BOTH WET WEATHER AND DRY WEATHER CONSTRUCTION. THESE CONDITIONS MAY REQUIRE THAT MORE STRINGENT MEASURES BE EMPLOYED TO PROTECT SENSITIVE AREAS DOWNSTREAM OF THE PROJECT. CONDITIONS MAY ALSO DICTATE THAT THE PROJECT SCHEDULE BE MODIFIED. THE CONTRACTOR SHALL KEEP AN EROSION CONTROL PLAN ON SITE THAT IS MODIFIED TO REFLECT ACTUAL CONDITIONS AND PHASING OF THE PROJECT. ALL ADDITIONAL MEASURES NECESSARY SHALL BE DESIGNED AND CONSTRUCTED PER THE HIGHWAY RUNOFF MANUAL. ALL REVISIONS SHALL BE REVIEWED AND APPROVED BY THE CONSTRUCTION OFFICE PRIOR TO IMPLEMENTATION.

FOR "AS CONSTRUCTED PLANS" ONLY

TESC LEGEND

INLET PROTECTION	IP		SEEDING, FERTILIZING, AND MULCHING, WITH ADDITIONAL STRAW MULCH
STABILIZED CONSTRUCTION ENTRANCE	CE		SEEDING, FERTILIZING, AND MULCHING WITH CLEAR PLASTIC COVERING
ROCK CHECK DAM	▲		SEEDING, FERTILIZING, AND MULCHING WITH EROSION CONTROL BLANKET
GRAVEL FILTER BERM	⬭	—■—	PLASTIC BARRIER FENCE
STRAW BALE BARRIER	▮	—*—	CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

0 10 20 30 40 50
SCALE IN METERS

	DATE	DATE	REVISION	BY
DESIGNED BY D.MOON, F.TIMM	11/4/96			
ENTERED BY B. SAVILLE	11/4/96			
CHECKED BY F. TIMM	11/4/96			
PROJ. ENGR. R.KINOSHITA	11/4/96			
REGIONAL ADM. J. OKAMOTO	11/4/96			

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL PLAN

TESC 2
SHEET 72 OF 663 SHEETS

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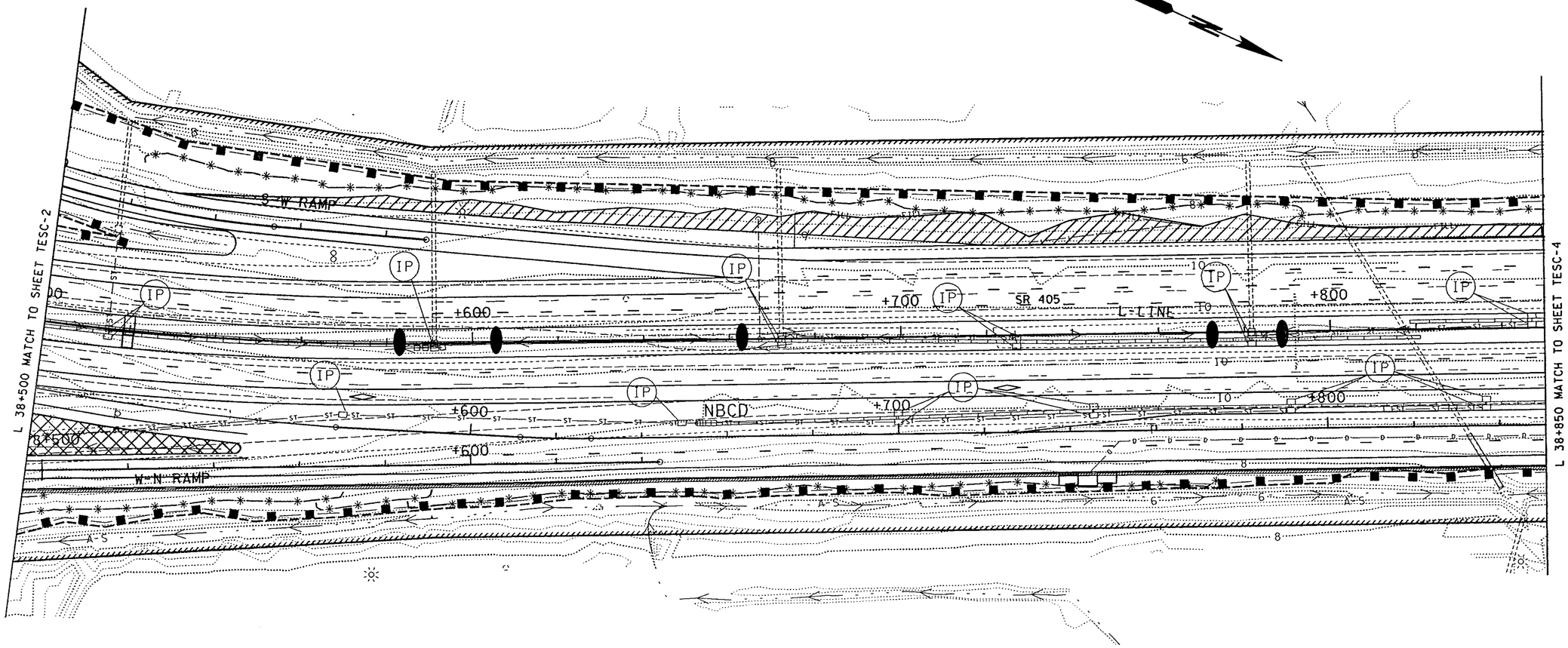
T.26N. R.5E. W.M.



TESC LEGEND

- INLET PROTECTION (IP)
- STABILIZED CONSTRUCTION ENTRANCE (CE)
- ROCK CHECK DAM
- GRAVEL FILTER BERM
- STRAW BALE BARRIER
- SEEDING, FERTILIZING, AND MULCHING, WITH ADDITIONAL STRAW MULCH
- SEEDING, FERTILIZING, AND MULCHING WITH CLEAR PLASTIC COVERING
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- CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE

0 10 20 30 40 50
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CHECKED BY	F. TIMM	11/4/96			
PROJ. ENGR.	R.KINOSHITA	11/4/96			
REGIONAL ADM.	J. OKAMOTO	11/4/96			
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER	96W035	
CONTRACT NO.	5057	

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL PLAN

TESC 3

SHEET 73 OF 663 SHEETS

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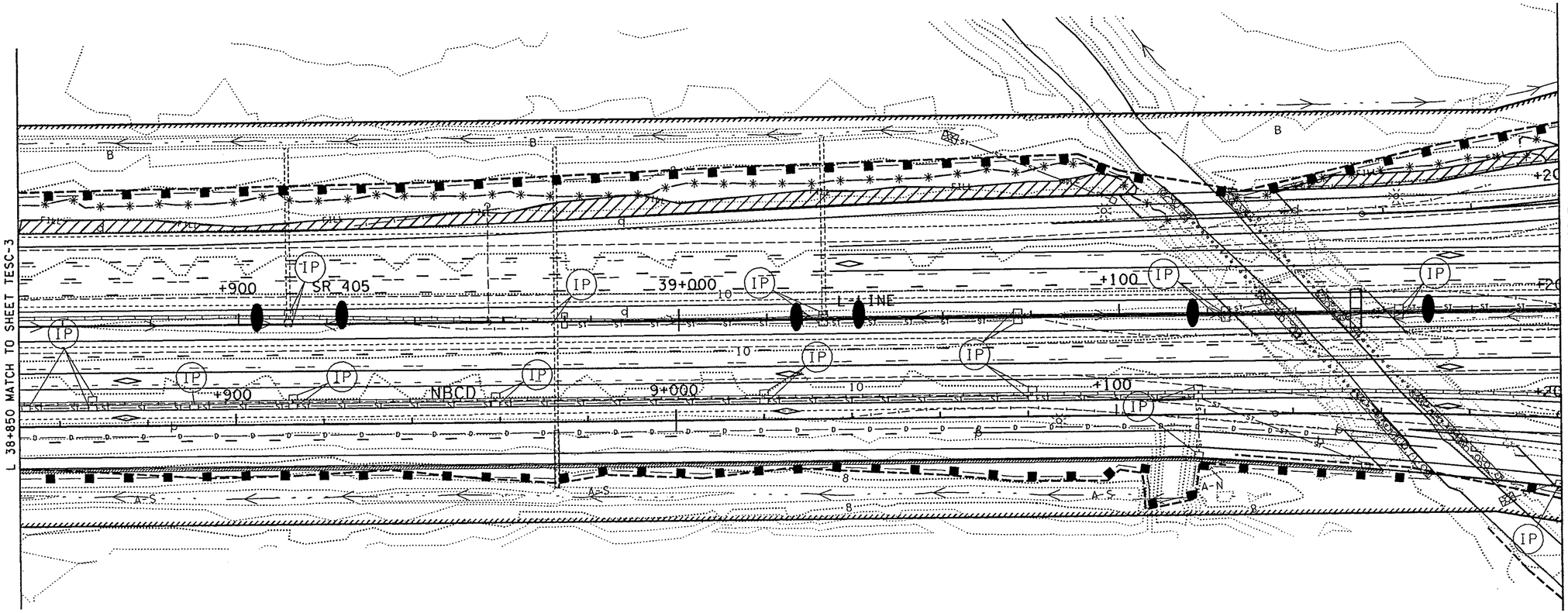

TESC LEGEND

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- STABILIZED CONSTRUCTION ENTRANCE (CE)
- ROCK CHECK DAM
- GRAVEL FILTER BERM
- STRAW BALE BARRIER
- SEEDING, FERTILIZING, AND MULCHING, WITH ADDITIONAL STRAW MULCH
- SEEDING, FERTILIZING, AND MULCHING WITH CLEAR PLASTIC COVERING
- SEEDING, FERTILIZING, AND MULCHING WITH EROSION CONTROL BLANKET
- PLASTIC BARRIER FENCE
- CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE

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REGIONAL ADM. J. OKAMOTO	11/4/96				
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REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
96W035		
CONTRACT NO.		
5054		

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL PLAN

TESC 4

SHEET 74 OF 663 SHEETS

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TESC LEGEND

- INLET PROTECTION (IP)
- STABILIZED CONSTRUCTION ENTRANCE (CE)
- ROCK CHECK DAM
- GRAVEL FILTER BERM
- STRAW BALE BARRIER
- SEEDING, FERTILIZING, AND MULCHING, WITH ADDITIONAL STRAW MULCH
- SEEDING, FERTILIZING, AND MULCHING WITH CLEAR PLASTIC COVERING
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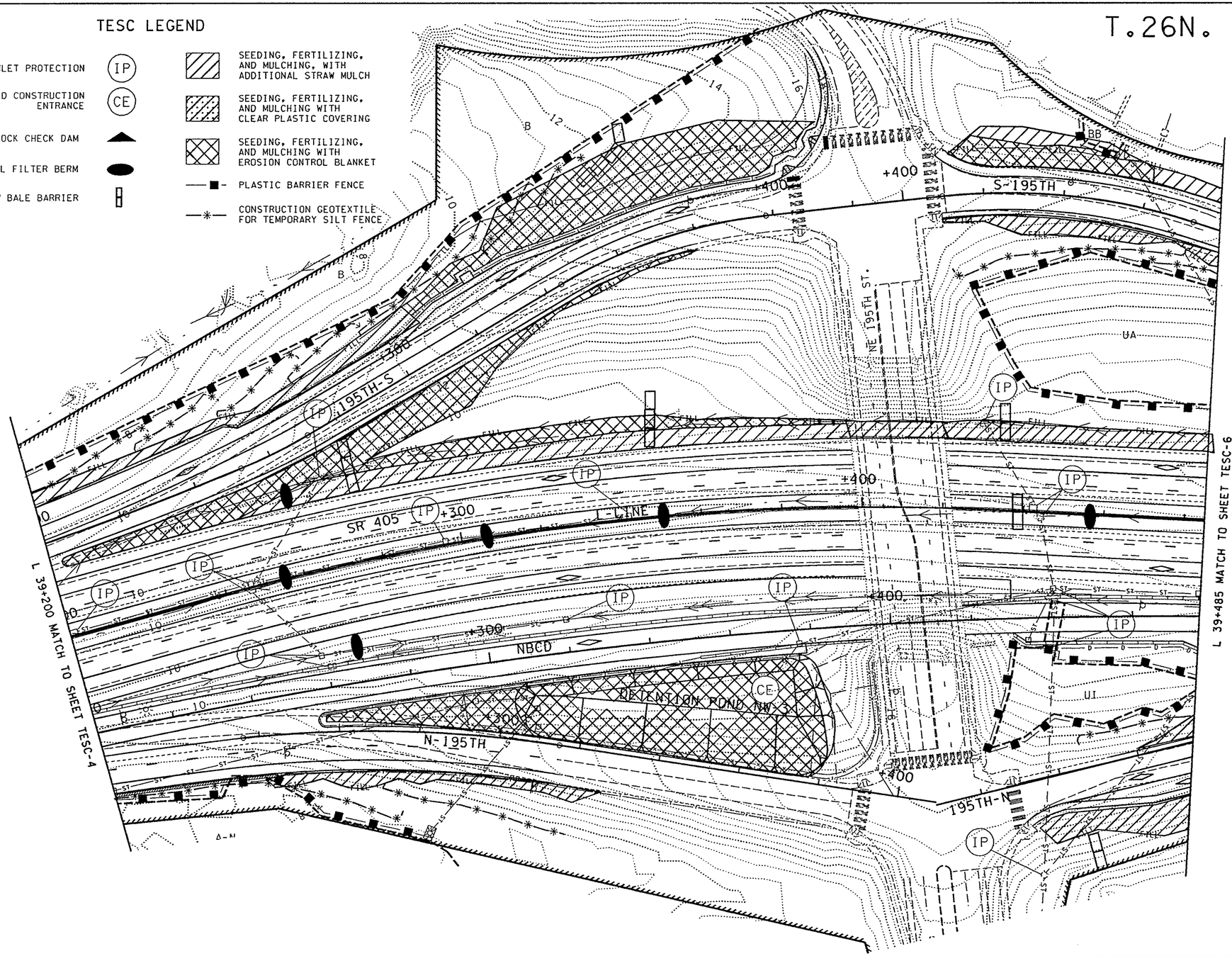
- PLASTIC BARRIER FENCE
- CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE

T.26N. R.5E. W.M.



FOR "AS CONSTRUCTED PLANS" ONLY

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SCALE IN METERS

NOTE:
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REGIONAL ADM.	J. OKAMOTO	11/4/96			
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL PLAN

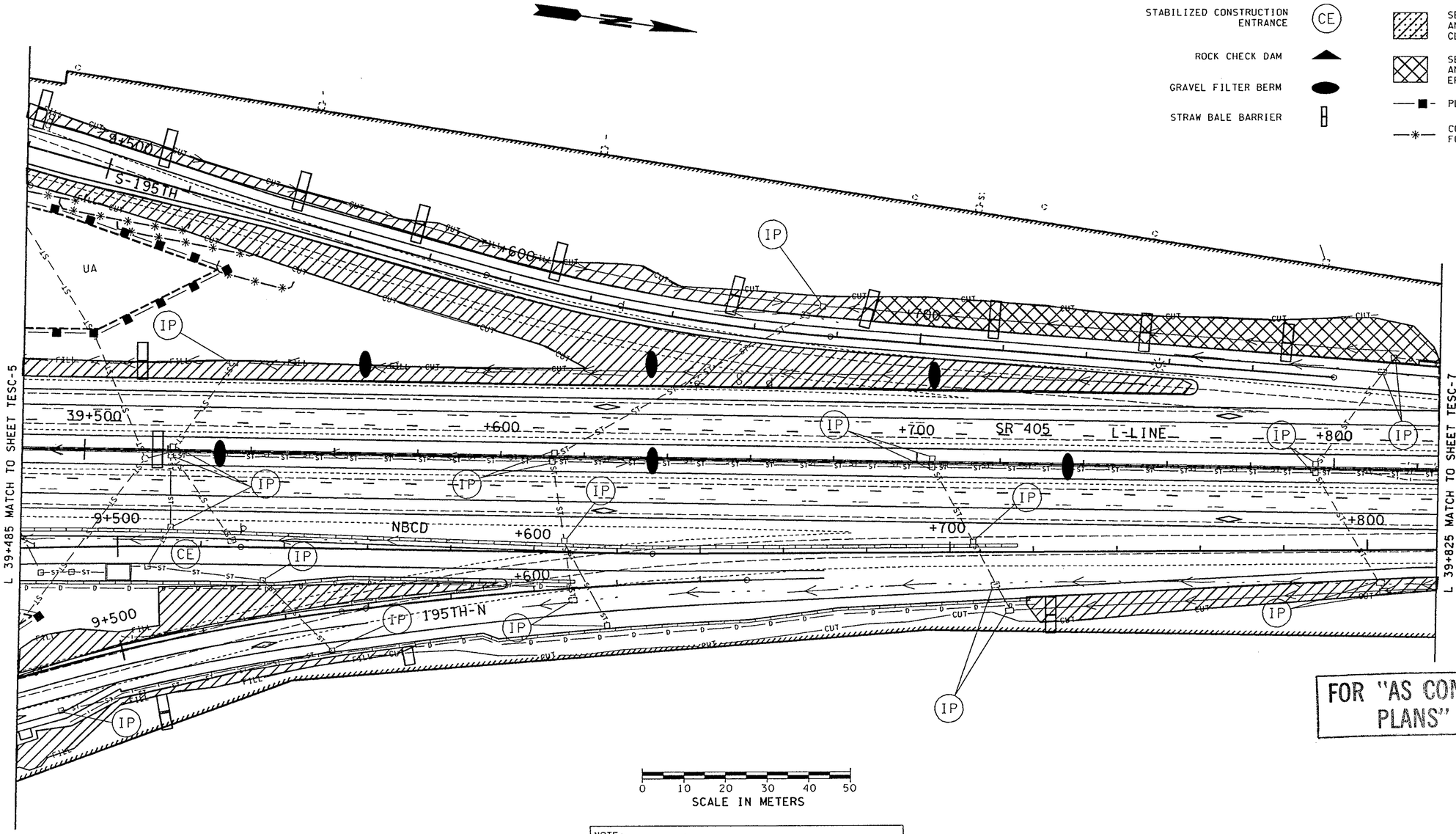
TESC 5

SHEET 75 OF 663 SHEETS

T.26N. R.5E. W.M.

TESC LEGEND

- INLET PROTECTION (IP)
- STABILIZED CONSTRUCTION ENTRANCE (CE)
- ROCK CHECK DAM
- GRAVEL FILTER BERM
- STRAW BALE BARRIER
- SEEDING, FERTILIZING, AND MULCHING, WITH ADDITIONAL STRAW MULCH
- SEEDING, FERTILIZING, AND MULCHING WITH CLEAR PLASTIC COVERING
- SEEDING, FERTILIZING, AND MULCHING WITH EROSION CONTROL BLANKET
- PLASTIC BARRIER FENCE
- CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE



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SCALE IN METERS

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FOR "AS CONSTRUCTED PLANS" ONLY

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REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL PLAN

TESC 6

SHEET 76 OF 663 SHEETS

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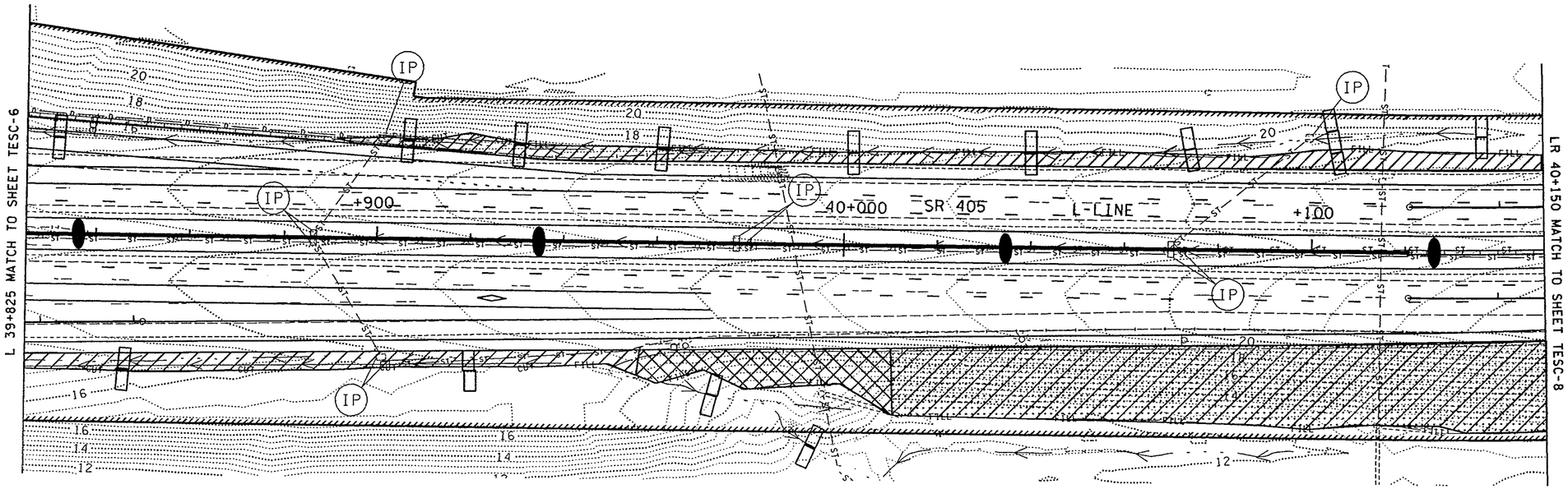
T.26N. R.5E. W.M.



TESC LEGEND

- INLET PROTECTION (IP)
- STABILIZED CONSTRUCTION ENTRANCE (CE)
- ROCK CHECK DAM
- GRAVEL FILTER BERM
- STRAW BALE BARRIER
- SEEDING, FERTILIZING, AND MULCHING, WITH ADDITIONAL STRAW MULCH
- SEEDING, FERTILIZING, AND MULCHING WITH CLEAR PLASTIC COVERING
- SEEDING, FERTILIZING, AND MULCHING WITH EROSION CONTROL BLANKET
- PLASTIC BARRIER FENCE
- CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE

0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	D.MOON,F.TIMM	11/4/96			
ENTERED BY	B. SAVILLE	11/4/96			
CHECKED BY	F. TIMM	11/4/96			
PROJ. ENGR.	R.KINOSHITA	11/4/96			
REGIONAL ADM.	J. OKAMOTO	11/4/96			
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL PLAN

TESC 7

SHEET 77 OF 663 SHEETS

T:\412347\A\32F1U-7.PLT PLOT7 09 NOV 96 s:\412347\12095\terctrl.dgn $(username)
Sat Nov 09 14:20:59 1996 D412347 T:\

T.26N. & T.27N. R.5E. W.M.

TESC LEGEND

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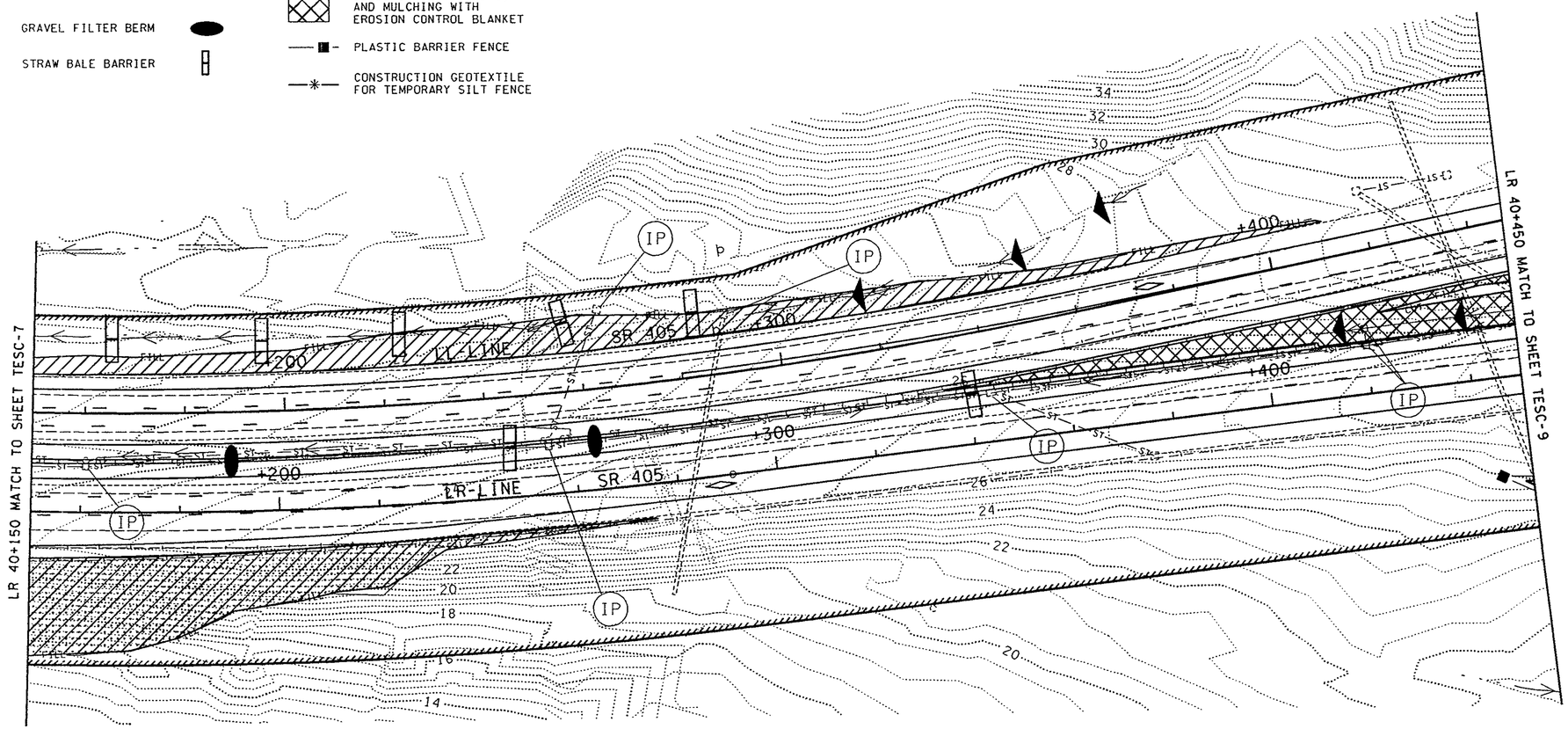

FOR "AS CONSTRUCTED PLANS" ONLY

0 10 20 30 40 50
SCALE IN METERS

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DESIGNED BY	D.MOON,F.TIMM	11/4/96			
ENTERED BY	B. SAVILLE	11/4/96			
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PROJ. ENGR.	R.KINOSHITA	11/4/96			
REGIONAL ADM.	J. OKAMOTO	11/4/96			
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
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JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL PLAN

TESC 8

SHEET 78 OF 663 SHEETS

Sat Nov 09 14:21:32 1996 D412347 T:\412347\A\32F1U-8.PLT
PLOT8 09 NOV 96 s:\412347\12095\terncrtrl.dgn $(username)

T.27N. R.5E. W.M.

TESC LEGEND

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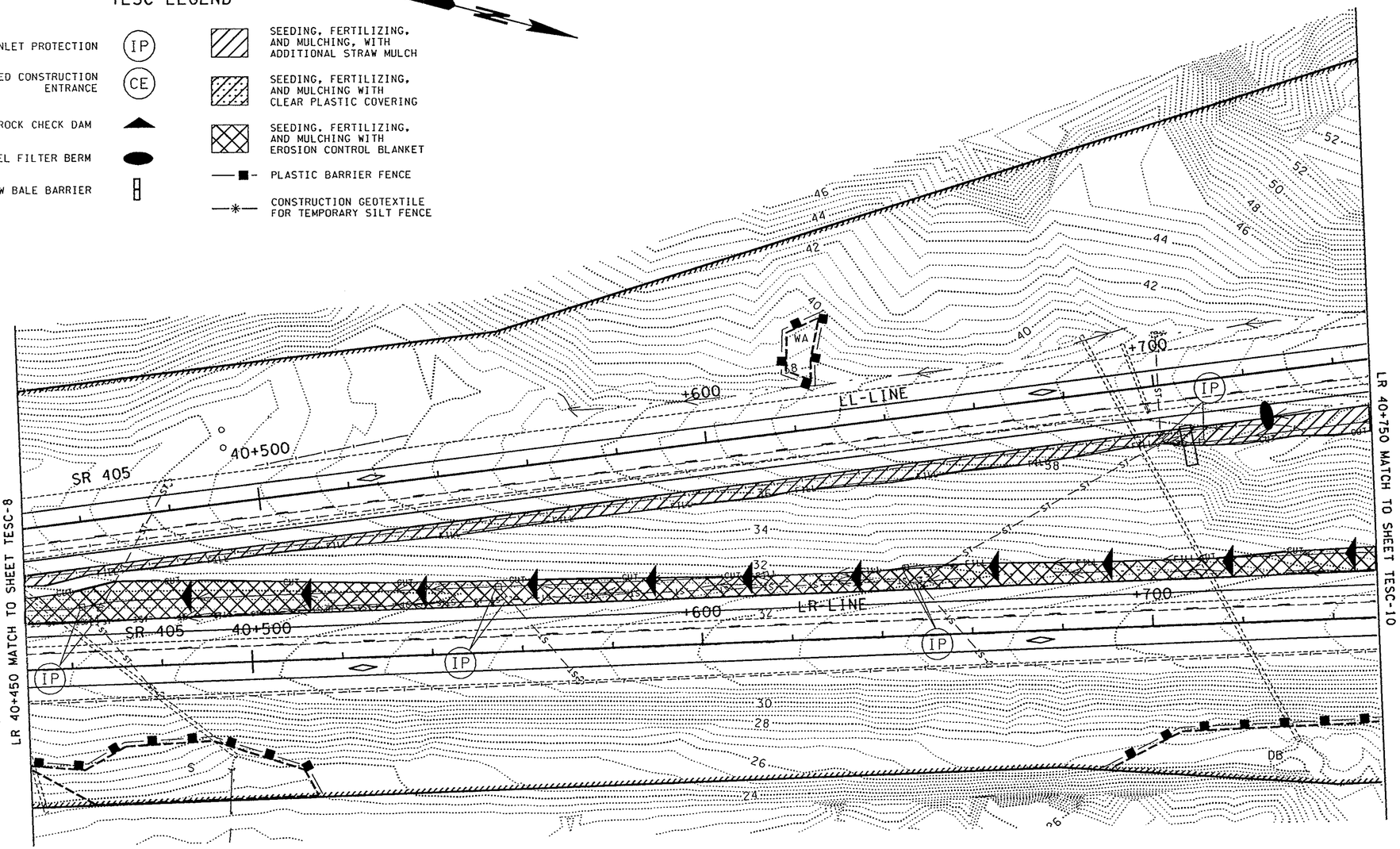
- CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE



FOR "AS CONSTRUCTED PLANS" ONLY

0 10 20 30 40 50
SCALE IN METERS

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DESIGNED BY	D.MOON,F.TIMM	11/4/96			
ENTERED BY	B. SAVILLE	11/4/96			
CHECKED BY	F. TIMM	11/4/96			
PROJ. ENGR.	R.KINOSHITA	11/4/96			
REGIONAL ADM.	J. OKAMOTO	11/4/96			
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL PLAN

TESC 9

SHEET 79 OF 663 SHEETS

Sat Nov 09 14:22:08 1996 D412347 T:\412347\A\32F1U-9.PLT
09 NOV 96 s:\412347\12095\ternctrl.dgn $(username)
PLOT9

T.27N. R.5E. W.M.

TESC LEGEND

- INLET PROTECTION (IP)
- STABILIZED CONSTRUCTION ENTRANCE (CE)
- ROCK CHECK DAM
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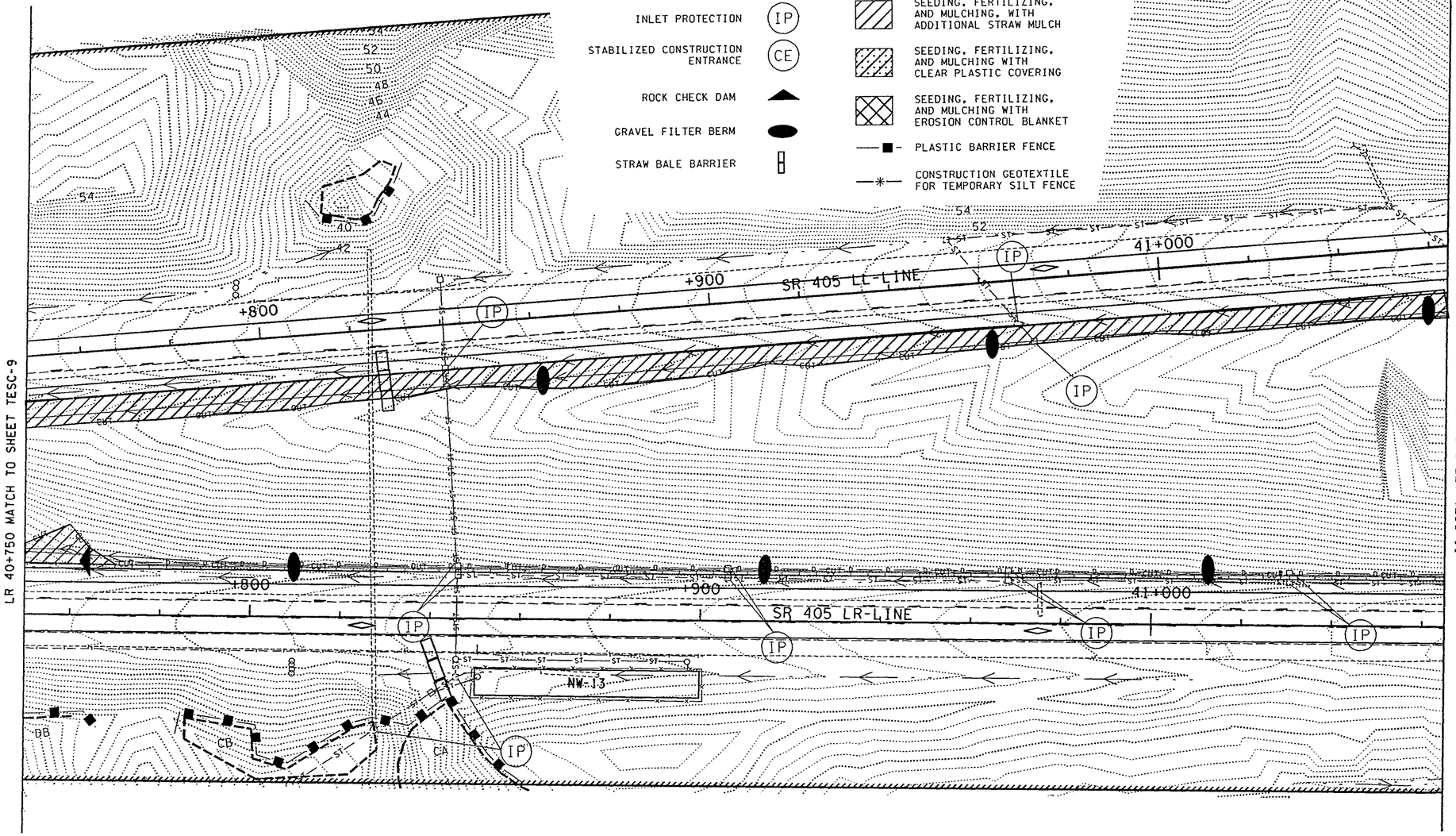
- PLASTIC BARRIER FENCE
- CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE



FOR "AS CONSTRUCTED PLANS" ONLY

0 10 20 30 40 50
SCALE IN METERS

NOTE:
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DESIGNED BY	D.MOON,F.TIMM	11/4/96			
ENTERED BY	B. SAVILLE	11/4/96			
CHECKED BY	F. TIMM	11/4/96			
PROJ. ENGR.	R.KINOSHITA	11/4/96			
REGIONAL ADM.	J. OKAMOTO	11/4/96			
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL PLAN

TESC 10

SHEET 80 OF 663 SHEETS

T.27N. R.5E. W.M.

TESC LEGEND

- INLET PROTECTION (IP)
- STABILIZED CONSTRUCTION ENTRANCE (CE)
- ROCK CHECK DAM
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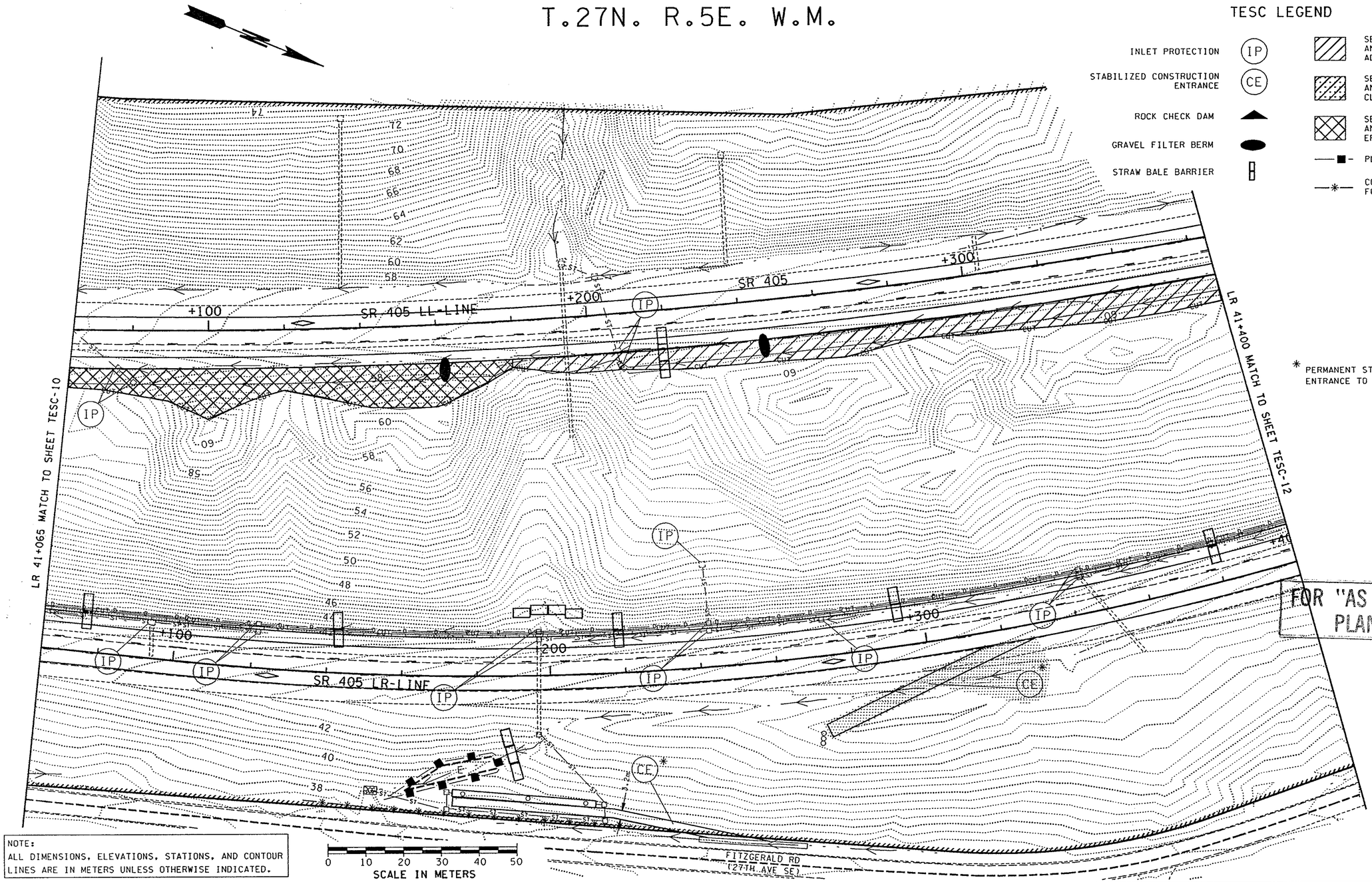
- CONSTRUCTION GEOTEXTILE FOR TEMPORARY SILT FENCE

* PERMANENT STABILIZED CONSTRUCTION ENTRANCE TO REMAIN



FOR "AS CONSTRUCTED PLANS" ONLY

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

					REGION NO.	STATE	FED.AID PROJ.NO.
					10	WASH	
DESIGNED BY D.MOON,F.TIMM	11/4/96				JOB NUMBER		
ENTERED BY B. SAVILLE	11/4/96				96W035		
CHECKED BY F. TIMM	11/4/96				CONTRACT NO.		
PROJ. ENGR. R.KINOSHITA	11/4/96				5054		
REGIONAL ADM. J. OKAMOTO	11/4/96	12/20/96	ADD CONST. ENTRANCE	DM			
	DATE	DATE	REVISION	BY			

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL PLAN

TESC 11

SHEET 81 OF 663 SHEETS

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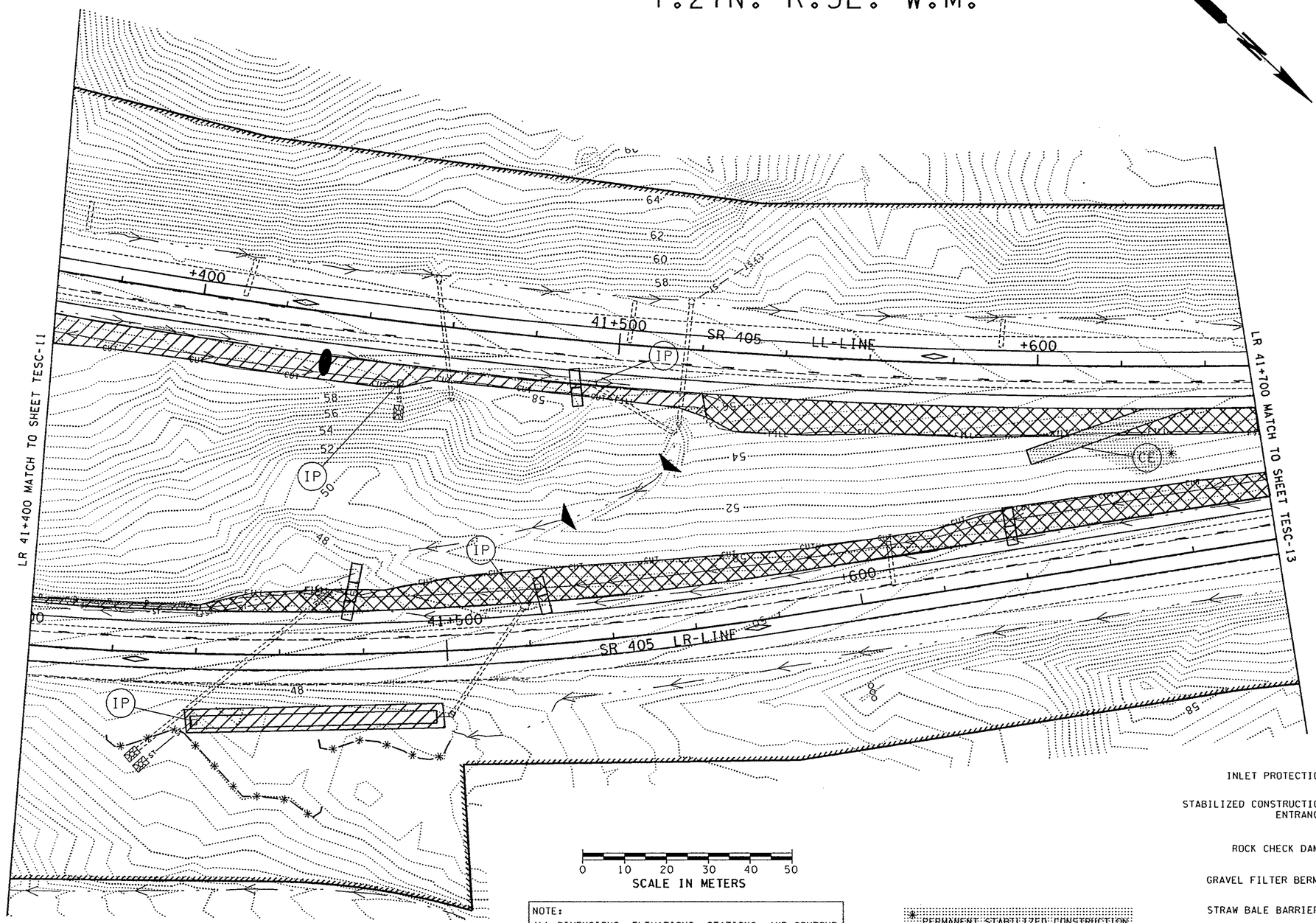
T.27N. R.5E. W.M.



FOR "AS CONSTRUCTED PLANS" ONLY

TESC LEGEND

- INLET PROTECTION (IP)
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0 10 20 30 40 50
SCALE IN METERS

NOTE:
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* PERMANENT STABILIZED CONSTRUCTION ENTRANCE TO REMAIN

					REGION NO. 10	STATE WASH	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
DESIGNED BY D.MOON,F.TIMM	11/4/96				JOB NUMBER 96W035			Washington State Department of Transportation
ENTERED BY B. SAVILLE	11/4/96							SR 405 BOTHELL TO SWAMP CREEK I/C HOV LANES - STAGE 1
CHECKED BY F. TIMM	11/4/96							TESC 12
PROJ. ENGR. R.KINOSHITA	11/4/96							
REGIONAL ADM. J. OKAMOTO	11/4/96	12/20/96	ADDED CONST. ENTRANCE	DM	CONTRACT NO. 5054			TEMPORARY EROSION CONTROL PLAN
	DATE	DATE	REVISION	BY				SHEET 82 OF 663 SHEETS

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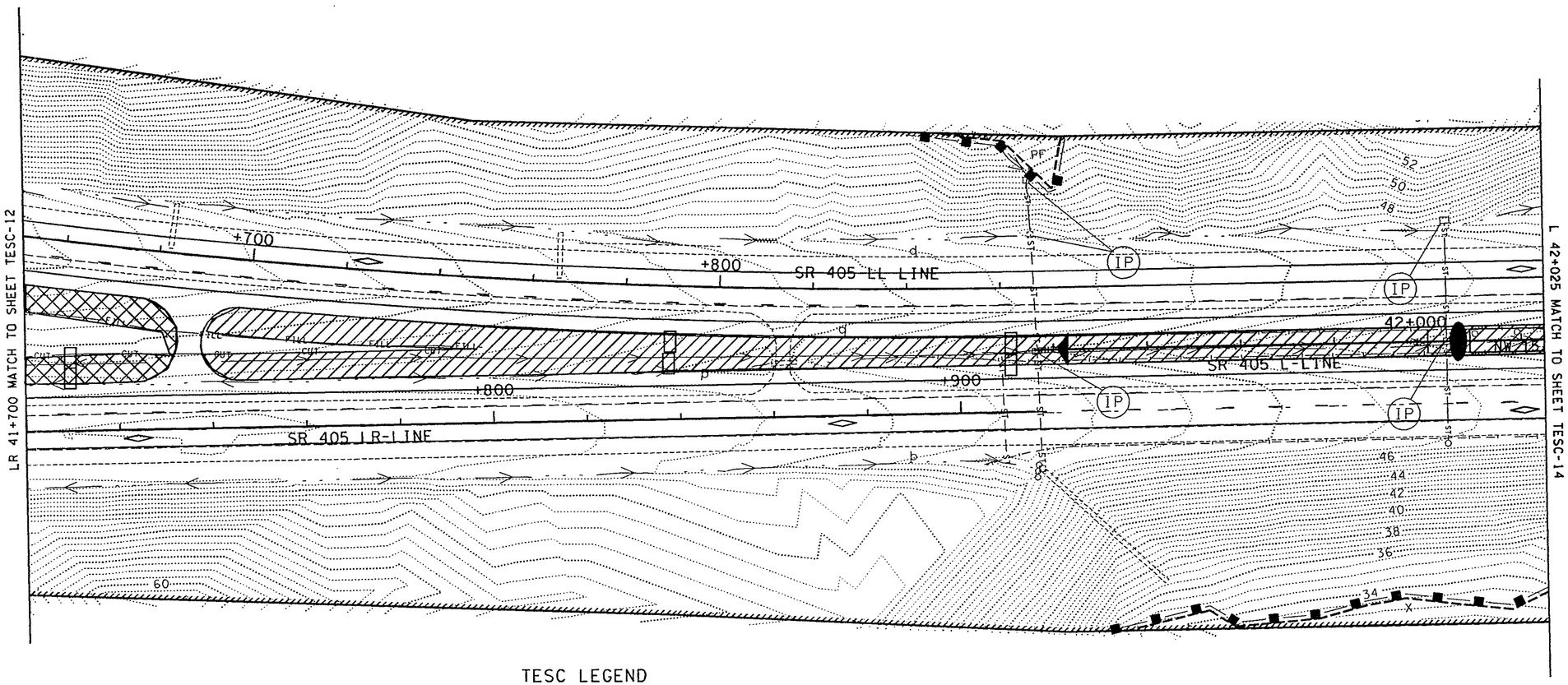
Sat Nov 09 14:25:38 1996 D412347 T:\

T.27N. R.5E. W.M.



TESC LEGEND

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SCALE IN METERS

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FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	D.MOON,F.TIMM	11/4/96			
ENTERED BY	B. SAVILLE	11/4/96			
CHECKED BY	F. TIMM	11/4/96			
PROJ. ENGR.	R.KINOSHITA	11/4/96			
REGIONAL ADM.	J. OKAMOTO	11/4/96			
		DATE	DATE	REVISION	BY

REGION NO. 10 | STATE FED.AID PROJ.NO. WASH
JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL PLAN

TESC 13
SHEET 83 OF 663 SHEETS

Sat Nov 09 14:25:59 1996 D412347 T:\412347\A\32F1U-13.PLT
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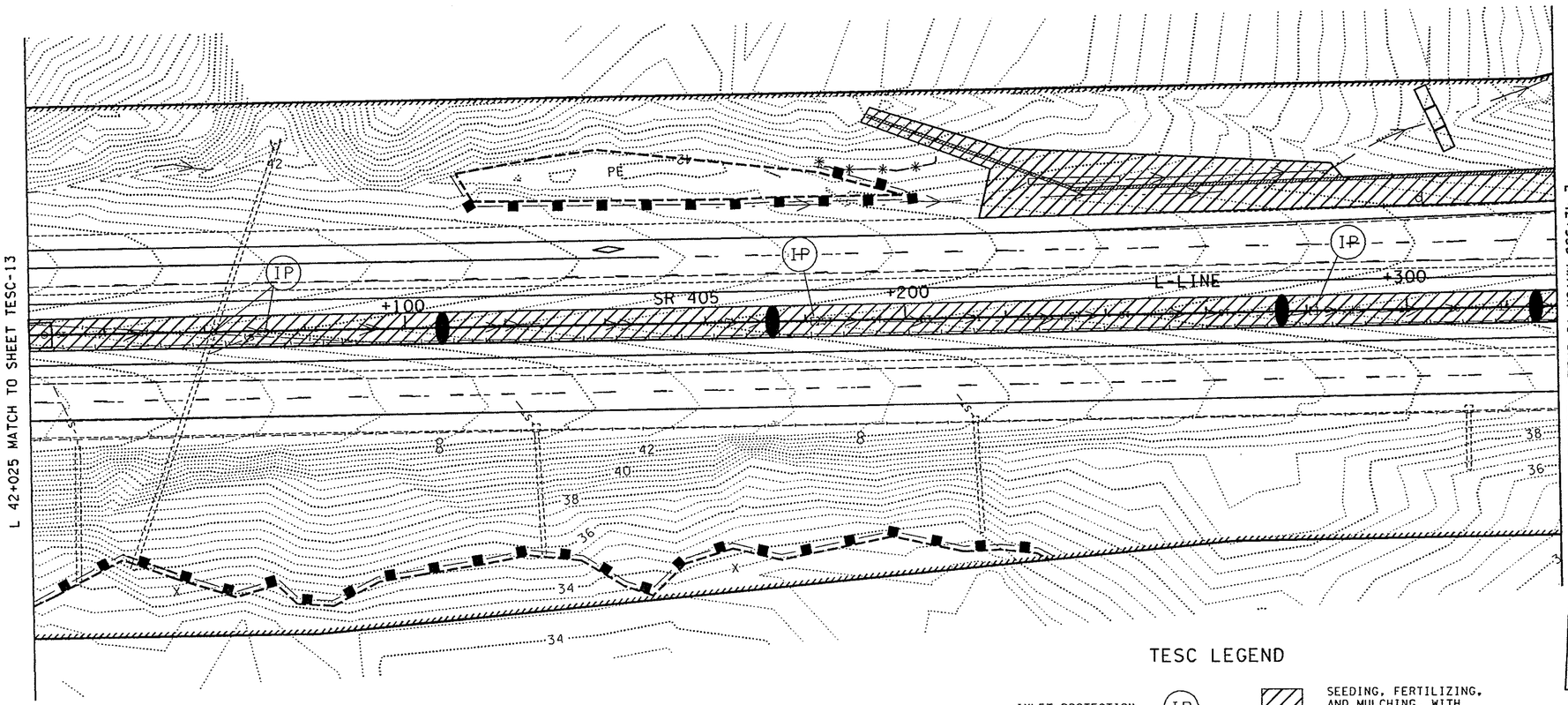
T.27N. R.5E. W.M.



TESC LEGEND

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FOR "AS CONSTRUCTED PLANS" ONLY

0 10 20 30 40 50
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ENTERED BY	B. SAVILLE	11/4/96			
CHECKED BY	F. TIMM	11/4/96			
PROJ. ENGR.	R.KINOSHITA	11/4/96			
REGIONAL ADM.	J. OKAMOTO	11/4/96			
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
96W035		
CONTRACT NO.		
5054		

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL PLAN

TESC 14

SHEET 84 OF 663 SHEETS

PLOT14 Sat Nov 09 14:26:19 1996 D412347 T:\412347\A\32F1U-14.PLT
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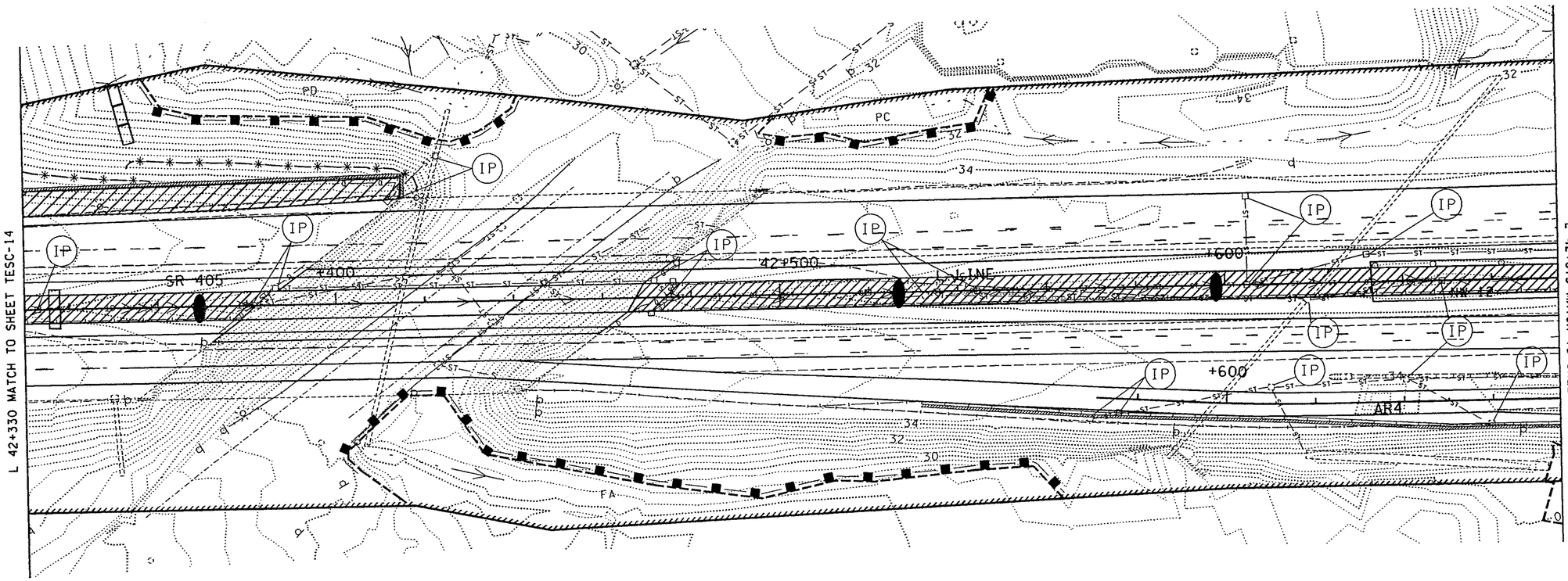
T.27N. R.5E. W.M.



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FOR "AS CONSTRUCTED PLANS" ONLY

	DATE	DATE	REVISION	BY
DESIGNED BY D.MOON, F.TIMM	11/4/96			
ENTERED BY B. SAVILLE	11/4/96			
CHECKED BY F. TIMM	11/4/96			
PROJ. ENGR. R.KINOSHITA	11/4/96			
REGIONAL ADM. J. OKAMOTO	11/4/96			

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

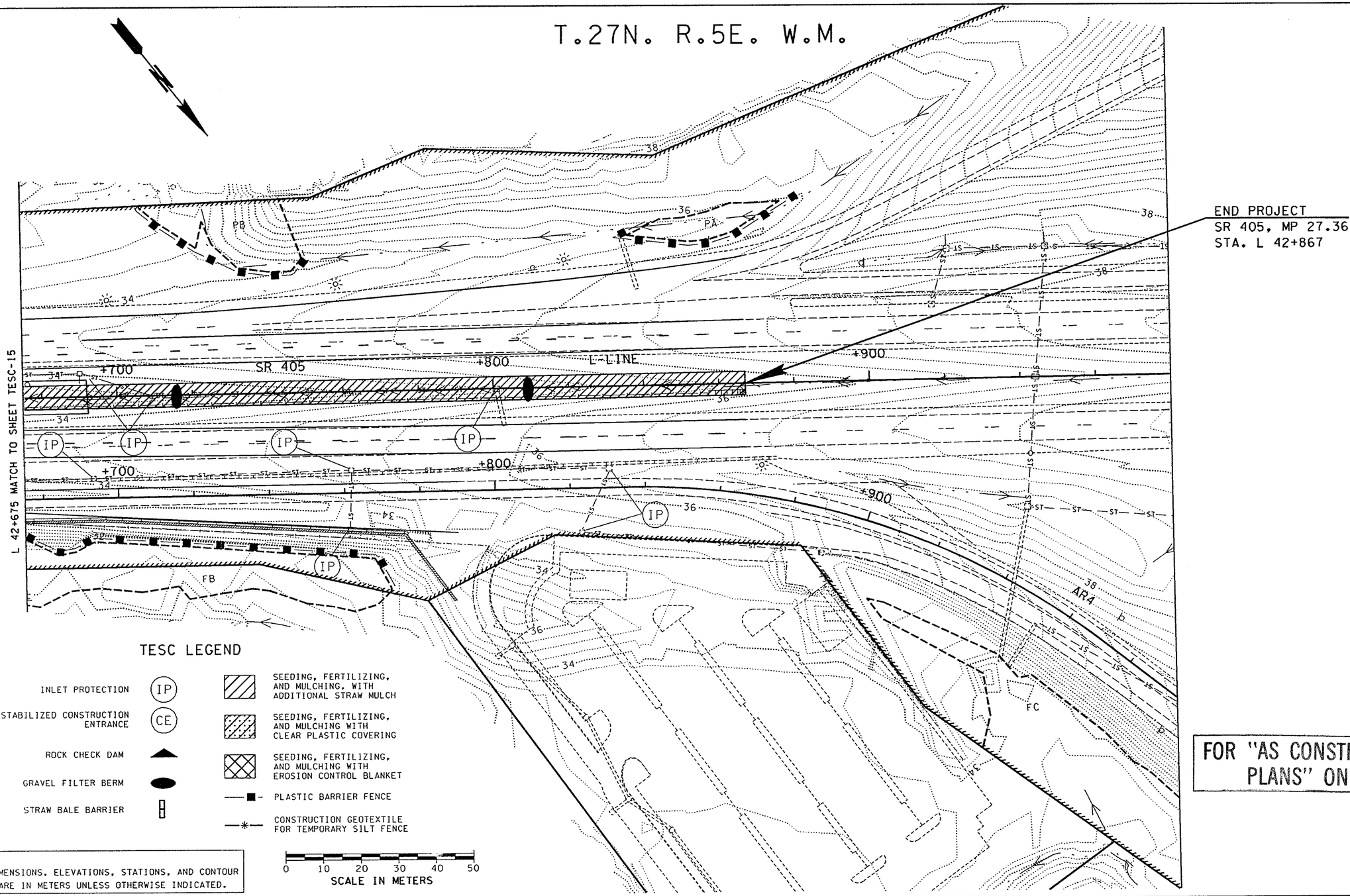
TEMPORARY EROSION CONTROL PLAN

TESC 15

SHEET 85 OF 663 SHEETS

Sat Nov 09 14:26:42 1996 D412347 T:\412347\32F1U-15.PLT
PLOT15
09 NOV 96 s:\412347\12095\terrctrl.dgn $(username)

T.27N. R.5E. W.M.



TESC LEGEND

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SCALE IN METERS

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ENTERED BY	B. SAVILLE	11/4/96		
CHECKED BY	F. TIMM	11/4/96		
PROJ. ENGR.	R.KINOSHITA	11/4/96		
REGIONAL ADM.	J. OKAMOTO	11/4/96		
	DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

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ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

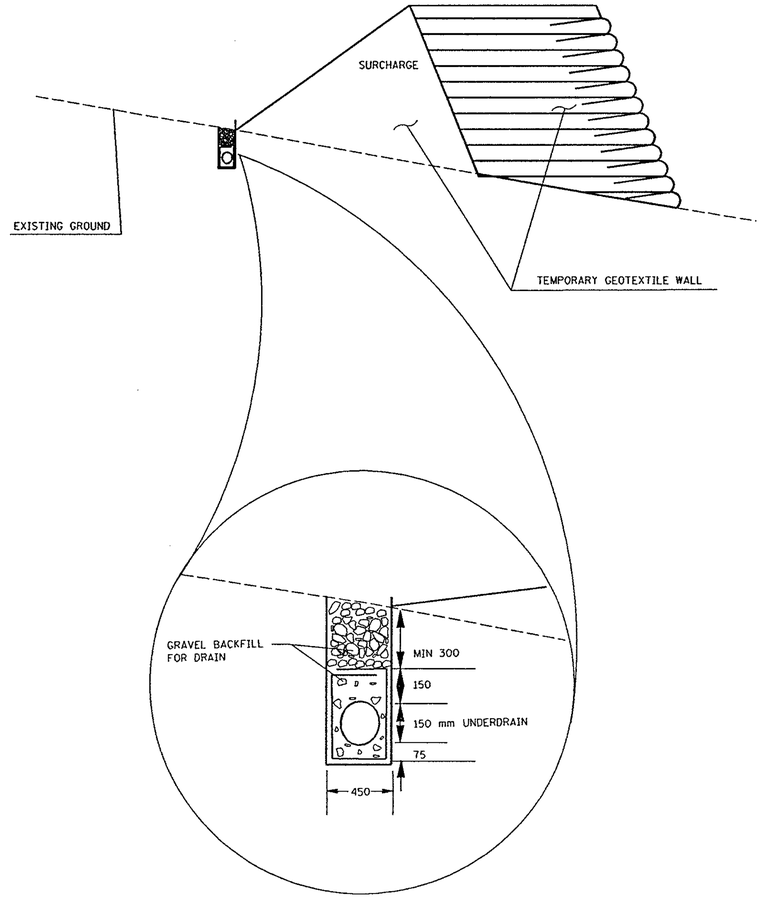
SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMPORARY EROSION CONTROL PLAN

TESC 16

SHEET 86 OF 663 SHEETS

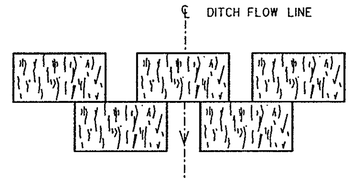
Sat Nov 09 16:18:37 1996 D412347 T:\412347\A\33F1U-1.PLT
09 NOV 96 s:\412347\12095\tmpecdet.dgn $(username)
PLOT1



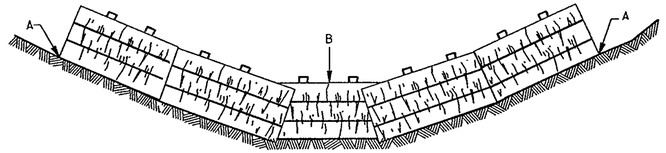
EROSION CONTROL SLOT DRAIN
NTS

1. SLOPE DRAIN TO SOUTH MIN. 0.2%. DRAINAGE TO PASS AROUND SOUTH END OF TEMP. WALL, THROUGH STRAW BALE BARRIER.

2. AT TIME OF REMOVAL OF GEOTEXTILE WALL, LEAVE SLOT DRAIN IN PLACE, AND ROUTE IT TO NEW CB @ NBCD STA. 8+745, AS SHOWN ON DRAINAGE PLANS.



STRAW BALE PLAN VIEW DETAIL
NTS



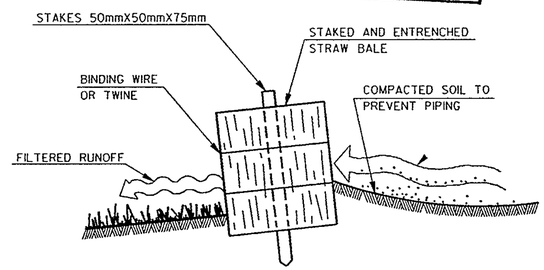
POINTS A SHOULD BE HIGHER THAN POINT B

STRAW BALE PLACEMENT DETAIL
NTS

MAINTENANCE

- STRAW BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RUNOFF-PRODUCING RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
- CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERC UTTING BENEATH BALES.
- SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RUNOFF- PRODUCING RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

FOR "AS CONSTRUCTED PLANS" ONLY



STRAW BALE STAKING DETAIL
NTS

STRAW BALE CHECK DAMS
N.T.S

					REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
DESIGNED BY F.TIMM	10/96				10	WASH		
ENTERED BY J.LINTON	10/96				JOB NUMBER			
CHECKED BY B. THURMOND	10/96				96W035			
PROJ. ENGR. R.KINOSHITA	10/96				CONTRACT NO.			
REGIONAL ADM.J.OKAMOTO	10/96				5054			
	DATE	DATE	REVISION	BY				

Washington State Department of Transportation

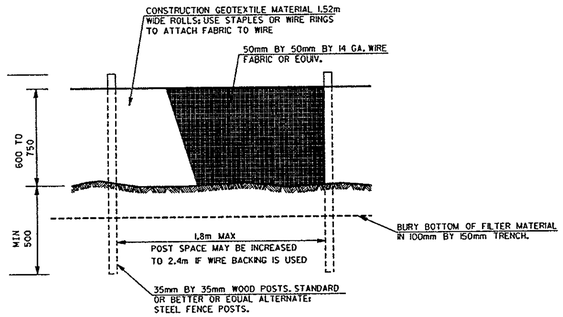
SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMP. EROSION CONTROL DETAILS

TESC D-1

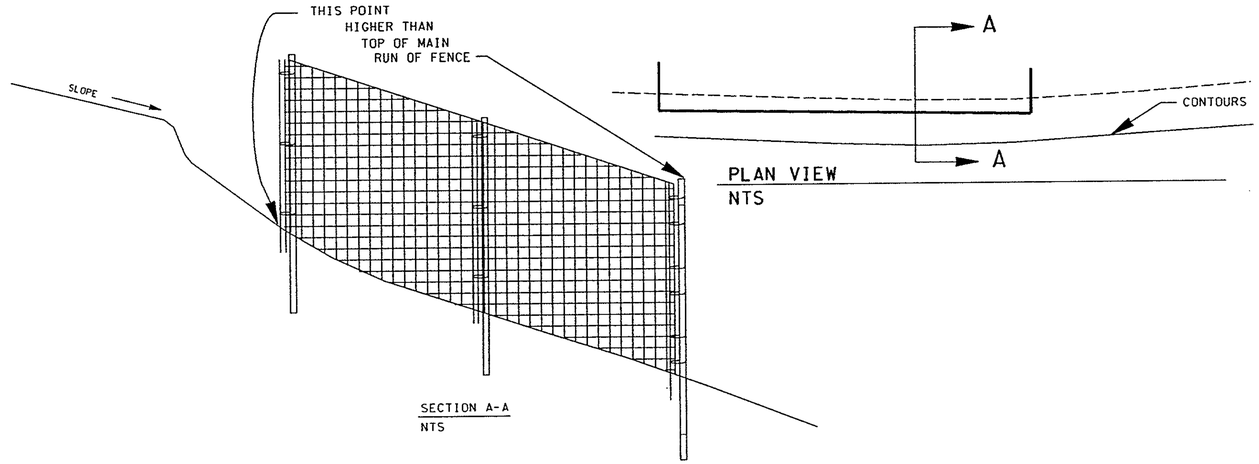
SHEET 87 OF 663 SHEETS

Sat Nov 09 16:19:04 1996 D412347 T:\412347\A\33F1U-2.PLT
09 NOV 96 s:\412347\12095\tmpecdet.dgn $(username)
PLOT2



SILT FENCE ELEVATION
NTS

NOTE: MEASUREMENTS ARE IN MM UNLESS OTHERWISE INDICATED



PLAN VIEW
NTS

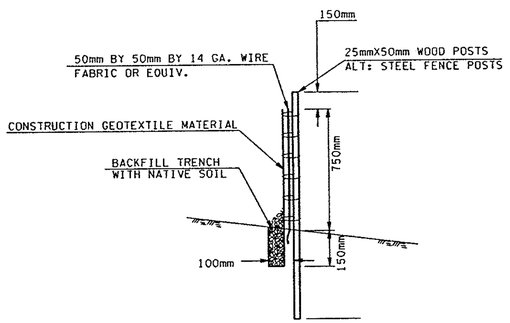
SECTION A-A
NTS

1. FILTER FENCES SHALL BE REMOVED WHEN THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED. RETAINED SEDIMENT MUST BE REMOVED AND PROPERLY DISPOSED OF, OR MULCHED AND SEEDED.

2. FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATLEY.

3. SEDIMENT MUST BE REMOVED WHEN IT REACHES APPROXIMATELY ONE THIRD THE HEIGHT OF THE FENCE. OR WHEN ONE THIRD OF THE FLOW AREA OF THE FENCE FABRIC, MEASURED VERTICALLY, IS PLUGGED.

4. FENCE SHALL BE CONSTRUCTED ALONG CONTOURS, PERPENDICULAR TO SLOPES. THE ELEVATION ALONG THE BOTTOM OF A FENCE SHALL NOT VARY MORE THAN 200 mm FROM END TO END, EXCEPT FOR THE ELEVATION CHANGE AT EACH END. EACH END SHALL EXTEND PERPENDICULAR TO THE MAIN FENCE, IN AN UPSLOPE DIRECTION , FOR A DISTANCE SUCH THAT THE TOE OF THE FENCE AT THE END POST IS EQUAL TO OR ABOVE THE LOWEST POINT ALONG THE TOP OF THE MAIN RUN OF FENCE.



SILT FENCE STAKING DETAIL

FOR "AS CONSTRUCTED PLANS" ONLY

TEMPORARY SILT FENCE DETAIL
N.T.S

					REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
DESIGNED BY F.TIMM	10/96				10	WASH		Washington State Department of Transportation
ENTERED BY J.LINTON	10/96				JOB NUMBER			SR 405 BOTHELL TO SWAMP CREEK I/C HOV LANES - STAGE 1
CHECKED BY B. THURMOND	10/96				96W035			TESC D-2
PROJ. ENGR. R.KINOSHITA	10/96				CONTRACT NO.			SHEET 88 OF 663 SHEETS
REGIONAL ADM.J.OKAMOTO	10/96				5054			TEMP. EROSION CONTROL DETAILS
	DATE	DATE	REVISION	BY				

PLOT: \412347\A\33F10-3.PLT PLOT3 09 NOV 96 s:\412347\2095\tmpecdet.dgn $(username)
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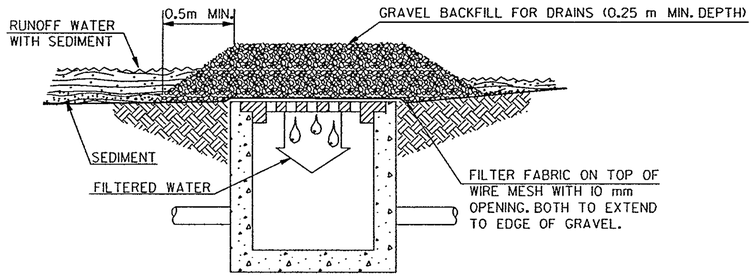
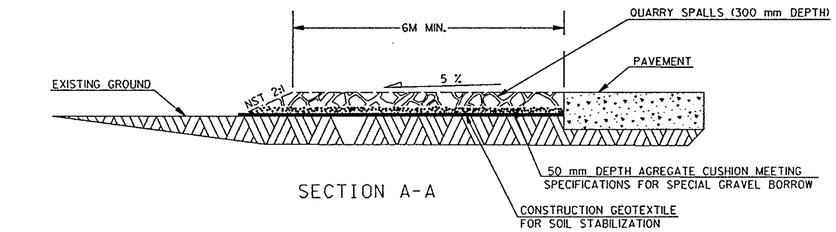


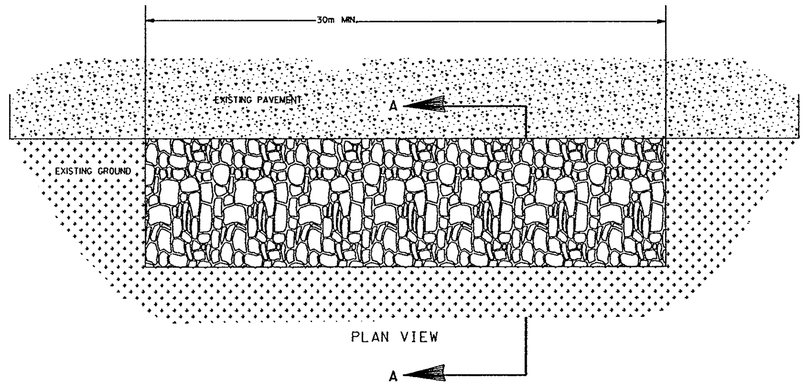
INLET PROTECTION NOTES

1. IF GRAVEL BECOMES CLOGGED WITH SEDIMENT, IT SHALL BE REMOVED AND MAY BE USED AS FILL AT OTHER LOCATIONS ON SITE AS APPROPRIATE. FRESH CLEAN GRAVEL SHALL BE PLACED AROUND INLETS.

STORM DRAIN INLET PROTECTION DETAIL
N.T.S.

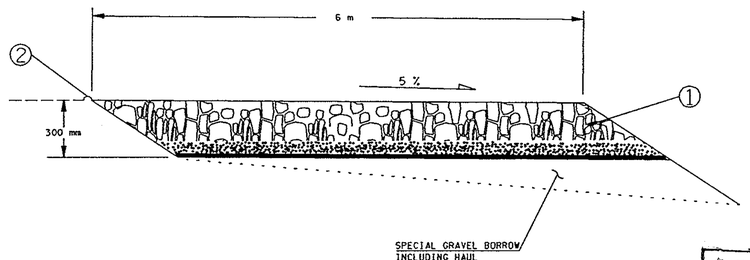


SECTION A-A



STABILIZED CONSTRUCTION ENTRANCE
N.T.S.

PAD SHALL BE CONSTRUCTED IN LOCATIONS SHOWN ON TESC PLANS AND AT ALL THROUGH BARRIER CONSTRUCTION ENTRANCES SEE TRAFFIC CONTROL PLANS



MITIGATION SITE TRUCK PULLOUT DETAIL

1. STABILIZED CONSTRUCTION ENTRANCE. SEE SHEET TESC D-3.
2. CONSTRUCTION SHALL REMOVE AND REPLACE CURB IN TURNOUT AREA. PROTECT THE TWO EXISTING J-BOXES AND RELOCATE SIGN TO NEW LOCATION AS SHOWN ON THE PLANS. THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE WETLAND MITIGATION EXCAVATION INCLUDED HAUL.

FOR "AS CONSTRUCTED PLANS" ONLY

					REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DESIGNED BY F.TIMM	10/96						
ENTERED BY J.LINTON	10/96				JOB NUMBER 96W035		
CHECKED BY B. THURMOND	10/96						
PROJ. ENGR. R.KINOSHITA	10/96				CONTRACT NO. 5054		
REGIONAL ADM. J.OKAMOTO	10/96						
	DATE	DATE	REVISION	BY			

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

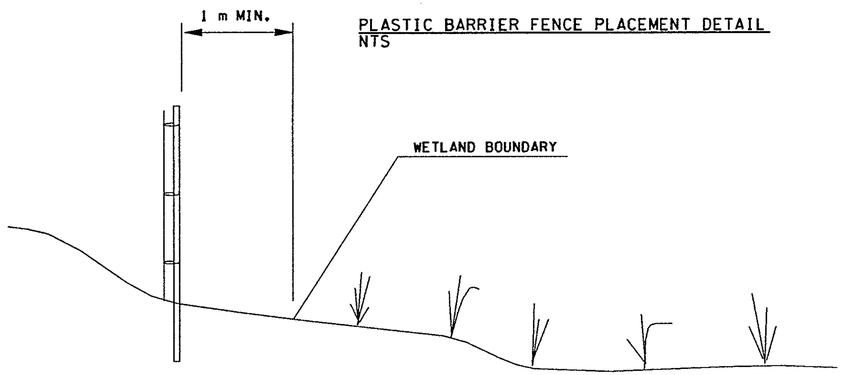
TEMP. EROSION CONTROL DETAILS

TESC D-3

SHEET 89 OF 663 SHEETS

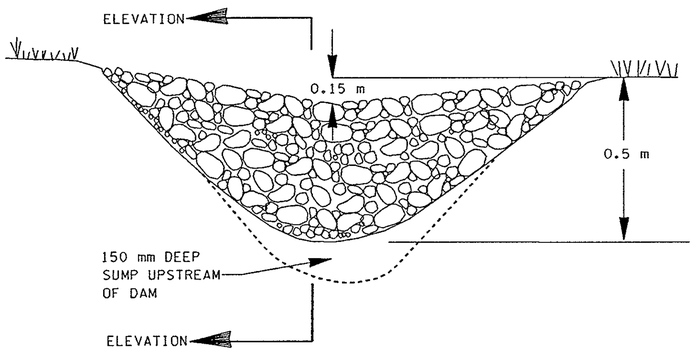
PLOT4 Sat Nov 09 16:28:59 1996 D412347 T:\412347\A\33F1U-4.PLT
09 NOV 96 s:\412347\12095\tmpecdet.dgn $(username)

PLASTIC BARRIER FENCE PLACEMENT DETAIL
NTS

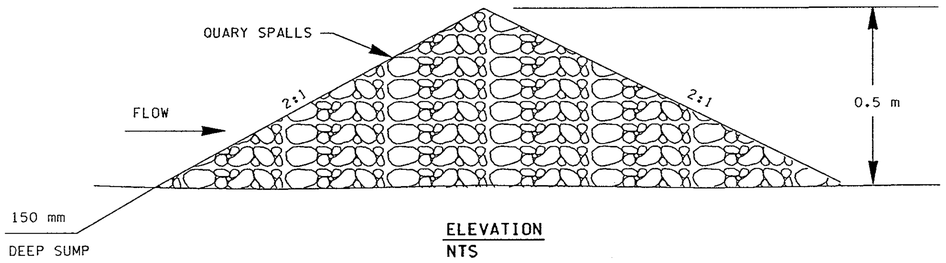


FENCE SHALL BE 1.2 METER HIGN ORANGE
HIGH DENSITY POLYETHYLENE FENCING WITH MESH OPENINGS
40 mm BY 60 mm NOMINAL, WEIGHING 0.65 kg/m.
IT SHALL BE STAKED OR SECURELY FASTENED TO VEGETATION
EVERY 5 METERS. IT SHALL BE REMOVED AT END OF PROJECT.

ROCK CHECK DAM



DITCH SECTION
NTS



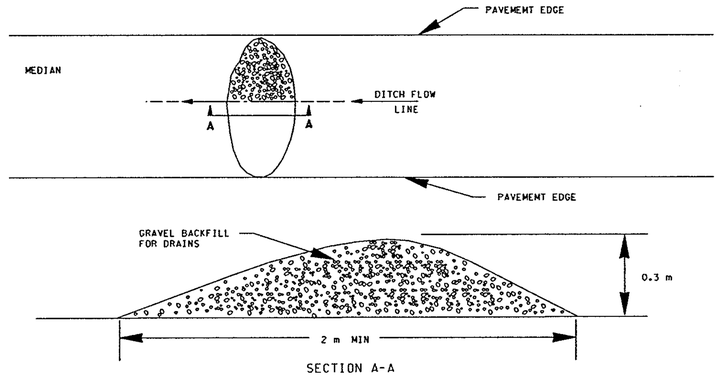
ELEVATION
NTS

CONSTRUCTION

- FORM DAM TO ACHIEVE COMPLETE COVERAGE OF THE DITCH OR SWALE AND TO ENSURE THAT THE CENTER OF THE DAM IS LOWER THAN THE EDGES. CONSTRUCT SUMP ON BACK SIDE OF CHECK DAM WITH MIN. 150 MM DEEP SUMP. SUMP SHALL EXTEND A MINIMUM OF 5 METERS UPSTREAM FROM CHECK DAM.
- IN THE CASE OF GRASS-LINED DITCHES AND SWALES, CHECK DAMS SHALL BE REMOVED WHEN THE GRASS HAS MATURED SUFFICIENTLY TO PROTECT THE DITCH OR SWALE UNLESS THE SLOPE OF THE SWALE IS GREATER THAN 4 PERCENT. THE AREA BENEATH THE CHECK DAMS SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER DAM REMOVAL.

MAINTENANCE

- CHECK DAMS SHALL BE MONITORED FOR PERFORMANCE AND SEDIMENT ACCUMULATION DURING AND AFTER EACH RUNOFF PRODUCING RAINFALL. SEDIMENT SHALL BE REMOVED WHEN IT REACHES ONE HALF THE SUMP DEPTH.



SECTION A-A

GRAVEL FILTER BERM NOTES

1. BERM TO BE CONSTRUCTED OF FRESH CLEAN GRAVEL BACKFILL FOR DRAINS.
2. SOILED GRAVEL MAY NOT BE REUSED AS FILTER BERM MATERIAL, BUT MAY BE USED AS FILL MATERIAL ELSEWHERE ON SITE AS APPROVED BY THE ENGINEER.
3. BERMS ARE INTENDED TO BE RAPIDLY EMPLACED IN ANTICIPATION OF STORM EVENTS, OR CONSTRUCTED IN ADVANCE AS DIRECTED BY PROJECT ENGINEER.
4. BERMS MUST BE PLACED BY DUMP TRUCK OR OTHER EQUIPMENT, AS LONG AS INTENDED FILTER FUNCTION IS ACHIEVED FOR FULL WIDTH OF EXPOSED MEDIAN. NO PONDING OR FLOW WILL BE ALLOWED ON ROADWAY.

GRAVEL FILTER BERM
N.T.S.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY F.TIMM	10/96				
ENTERED BY J.LINTON	10/96				
CHECKED BY B. THURMOND	10/96				
PROJ. ENGR. R.KINOSHITA	10/96				
REGIONAL ADM.J.OKAMOTO	10/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

TEMP. EROSION CONTROL DETAILS

TESC D-4

SHEET 90 OF 663 SHEETS

PLOTS 09 NOV 96 s:\412347\12095\tmpecdet.dgn $(username)
T:\412347\A\33F1U-5.PLT
Sat Nov 09 16:29:13 1996 D412347

CLEANING EXISTING DRAINAGE STRUCTURES AND PIPES

L	38 + 332	(CL)	S - 195TH	9 + 672	(5M LT)	LR	40 + 846	(14M RT)	L	42 + 182	(CL)
L	38 + 422	(CL)	L	39 + 704	(CL)	LL	40 + 846	(10M RT)	L	42 + 214	(20M RT)
L	38 + 332	(15M LT)	L	39 + 795	(CL)	LL	40 + 846	(10M LT)	L	42 + 281	(CL)
L	38 + 422	(17M LT)	L	39 + 805	(23M LT)	LL	40 + 955	(10M LT)	L	42 + 313	(20M RT)
W-N	8 + 441	(15M LT)	195TH - N	9 + 605	(2M RT)	LL	40 + 970	(10M RT)	L	42 + 350	(20M RT)
L	38 + 514	(23M LT)	NBCD	9 + 710	(8M RT)	LR	40 + 970	(10M LT)	L	42 + 382	(CL)
L	38 + 515	(CL)	NBCD	9 + 803	(8M RT)	LL	41 + 050	(24M LT)	L	42 + 416	(6M LT)
L	38 + 590	(CL)	LR	40 + 161	(10M LT)	LL	41 + 053	(10M LT)	L	42 + 441	(20M RT)
L	38 + 672	(CL)	LR	40 + 255	(10M LT)	LR	41 + 095	(9M LT)	L	42 + 495	(23M LT)
L	38 + 782	(CL)	LR	40 + 345	(10M LT)	LL	41 + 077	(11M RT)	L	42 + 532	(CL)
L	38 + 910	(CL)	LR	40 + 375	(7M RT)	LR	41 + 196	(11M LT)	L	42 + 560	(29M RT)
L	39 + 035	(CL)	LL	40 + 262	(15M LT)	LL	41 + 194	(14M LT)	AR4	2 + 610	(4M LT)
L	39 + 120	(CL)	LL	40 + 288	(11M LT)	LL	41 + 203	(10M LT)	L	42 + 619	(4M RT)
L	39 + 158	(CL)	LL	40 + 438	(11M LT)	LL	41 + 207	(10M RT)	AR4	2 + 640	(5M LT)
L	39 + 246	(CL)	LL	40 + 420	(11M LT)	LR	41 + 243	(27M LT)	AR4	2 + 660	(5M RT)
L	39 + 261	(24M RT)	LR	40 + 465	(10M LT)	LR	41 + 343	(10M LT)	AR4	2 + 694	(5M LT)
L	39 + 270	(23M LT)	LL	40 + 482	(5M LT)	LL	41 + 456	(11M LT)	L	42 + 702	(CL)
L	39 + 430	(20M LT)	LR	40 + 480	(7M RT)	LL	41 + 519	(9M LT)	L	42 + 801	(CL)
NBCD	9 + 430	(24M RT)	LR	40 + 560	(11M LT)	LL	41 + 495	(10M RT)	AR4	2 + 762	(6M LT)
L	39 + 445	(CL)	LR	40 + 572	(7M RT)	LL	41 + 517	(11M LT)	AR4	2 + 762	(10M RT)
NBCD	9 + 447	(20M RT)	LR	40 + 650	(12M LT)	L	41 + 532	(23M LT)	AR4	2 + 831	(5M LT)
L	39 + 502	(27M LT)	LR	40 + 664	(6M RT)	L	41 + 867	(11M LT)	L	42 + 917	(20M LT)
L	39 + 515	(2M RT)	LL	40 + 700	(13M RT)	L	41 + 917	(CL)	L	42 + 921	(35M LT)
L	39 + 520	(CL)	LL	40 + 701	(11M LT)	L	41 + 917	(26M RT)	L	42 + 941	(35M RT)
NBCD	9 + 540	(23M RT)	LR	40 + 809	(37M RT)	L	42 + 077	(CL)	L	42 + 944	(CL)
L	39 + 612	(CL)	LR	40 + 828	(25M RT)	L	42 + 126	(20M RT)	L	42 + 947	(35M LT)
S - 195TH	9 + 453	(14M LT)	LR	40 + 846	(10M LT)						

CLEANING EXISTING DRAINAGE STRUCTURES(CULVERTS)

W-N	8 + 440	(15M LT)	TO	W-N	8 + 444	(26M LT)
L	38 + 796	(40M LT)	TO	NBCD	8 + 840	(15M RT)
L	38 + 968	(39M RT)	TO	L	38 + 970	(40M LT)
LL	40 + 432	(23M LT)	TO	LR	40 + 450	(53M CL)
LL	40 + 686	(14M LT)	TO	LR	40 + 731	(27M RT)
LL	40 + 827	(17M LT)	TO	LR	40 + 829	(25M RT)
LL	41 + 427	(24M RT)	TO	LR	41 + 469	(13M LT)
LR	41 + 860	(11M LT)	TO	LR	41 + 866	(12M LT)
LR	41 + 909	(13M LT)	TO	LR	41 + 909	(11M RT)

NOTE: THE ABOVE IDENTIFIED DRAINAGE STRUCTURES SHALL BE CLEANED, AS PER SECTION 7-07 OF THE STANDARD SPECIFICATIONS, AT THE START OF THE PROJECT. SEE CONSTRUCTION SEQUENCE ON SHEET TESC 1. CLEANING A STRUCTURE SHALL INCLUDE CLEANING ALL PIPES DRAINING INTO AND OUT OF THAT STRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE THROUGH OUT THE PROJECT TO KEEP ALL EXISTING AND NEW DRAINAGE SYSTEMS CLEAN AND FUNCTIONAL.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY F.TIMM	10/96				
ENTERED BY J.LINTON	10/96				
CHECKED BY B. THURMOND	10/96				
PROJ. ENGR. R.KINOSHITA	10/96				
REGIONAL ADM.J.OKAMOTO	10/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

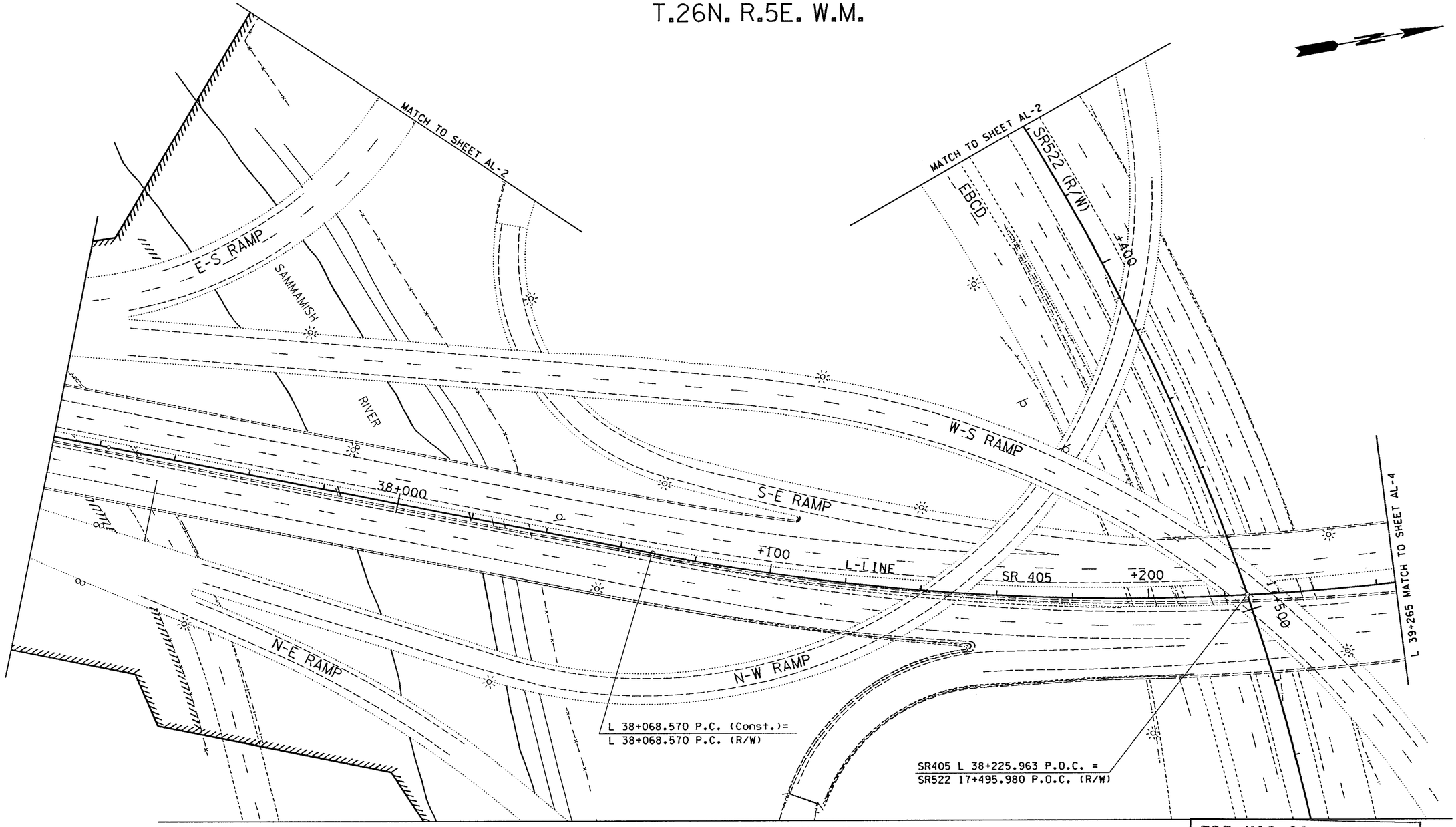
TEMP. EROSION CONTROL DETAILS

TESC D-5

SHEET 91 OF 663 SHEETS

PLOT4 09 NOV 96 s:\412347\1209\95algn1.dgn $(username)
Sat Nov 09 16:32:52 1996 D412347 T:\412347\A\34F1U-4.PLT

T.26N. R.5E. W.M.



NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

0 10 20 30 40 50
SCALE IN METERS

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	D. MOON	6/15/96		
ENTERED BY	M. DO	6/15/96		
CHECKED BY	N. ABEDIN	6/15/96		
PROJ. ENGR.	R.KINOSHITA	6/15/96		
REGIONAL ADM.	J. OKAMOTO	6/15/96		
	DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER	95W035	
CONTRACT NO.	5054	

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ALIGNMENT AND R/W PLAN

AL-1

SHEET 92 OF 663 SHEETS

T:\412347\A\34F1U-3.PLT PLOT3 09 NOV 96 s:\412347\l2095\95algnl.dgn $(username) Sat Nov 09 16:32:36 1996 D412347

T.26N. R.5E. W.M.

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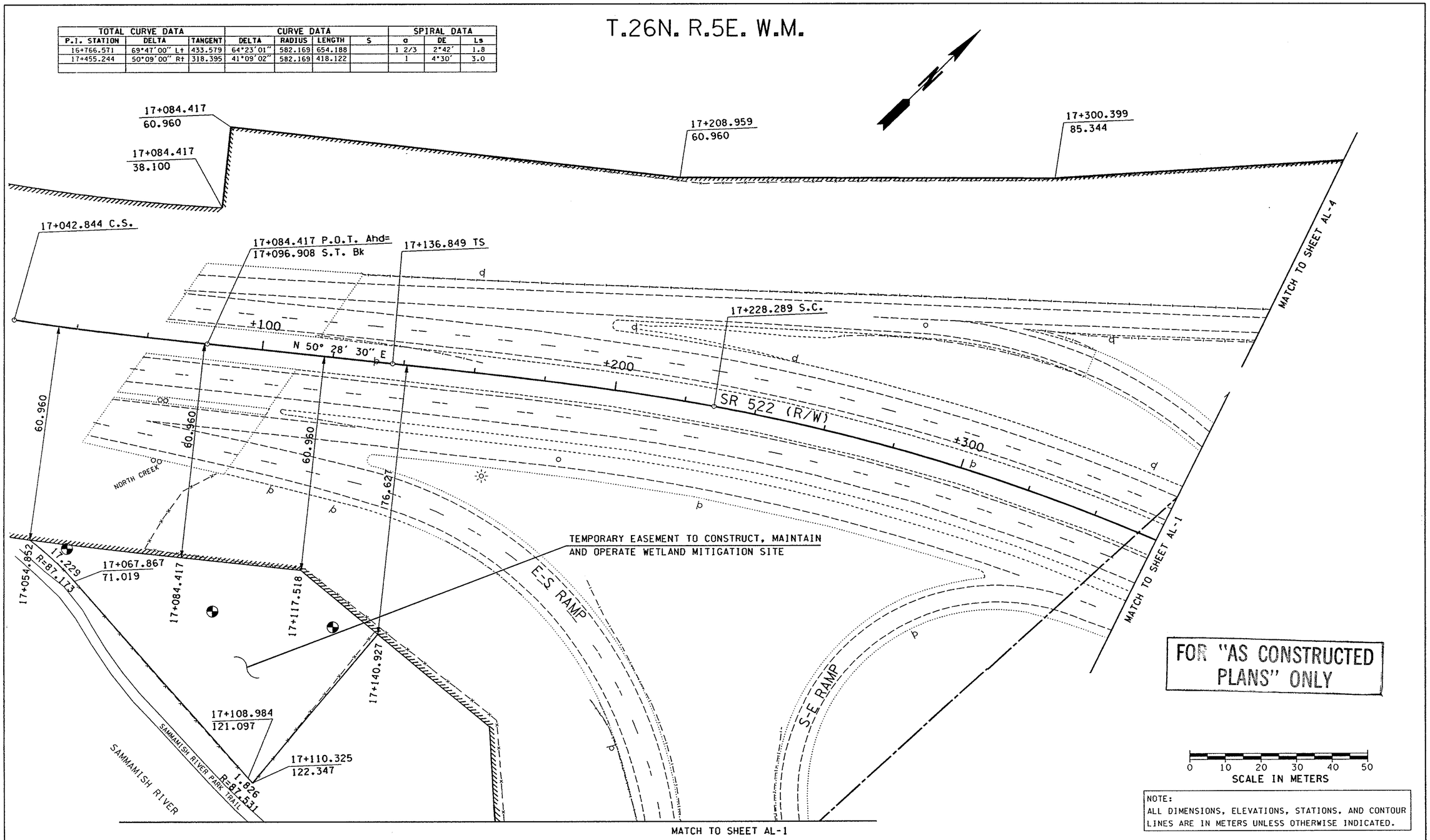

FOR "AS CONSTRUCTED PLANS" ONLY

0 10 20 30 40 50
SCALE IN METERS

NOTE:
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					REGION NO.	STATE	FED.AID PROJ.NO.
					10	WASH	
DESIGNED BY D. MOON	6/15/96				JOB NUMBER		
ENTERED BY M. DO	6/15/96				95W035		
CHECKED BY N. ABEDIN	6/15/96				CONTRACT NO.		
PROJ. ENGR. R.KINOSHITA	6/15/96				5054		
REGIONAL ADM. J. OKAMOTO	6/15/96						
	DATE	DATE	REVISION	BY			

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ALIGNMENT AND R/W PLAN

AL-2

SHEET 93 OF 663 SHEETS

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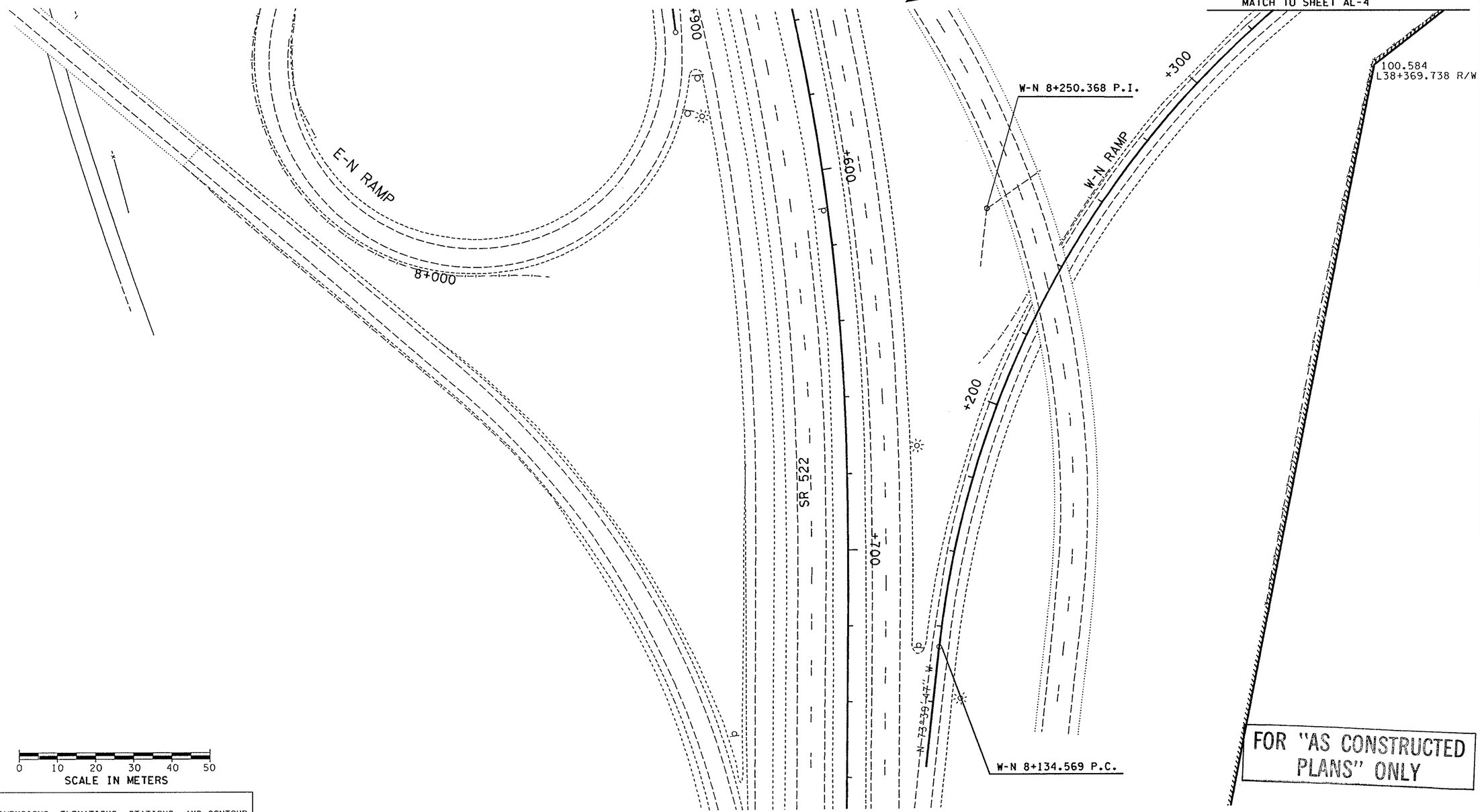

0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

DESIGNED BY D. MOON	6/15/96				
ENTERED BY M. DO	6/15/96				
CHECKED BY N. ABEDIN	6/15/96				
PROJ. ENGR. R.KINOSHITA	6/15/96				
REGIONAL ADM. J. OKAMOTO	6/15/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 95W035		
CONTRACT NO. 5054		

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ALIGNMENT AND R/W PLAN

AL-3

SHEET 94 OF 663 SHEETS

PLOT6 09 NOV 96 s:\412347\12095\95algn1.dgn $(username)
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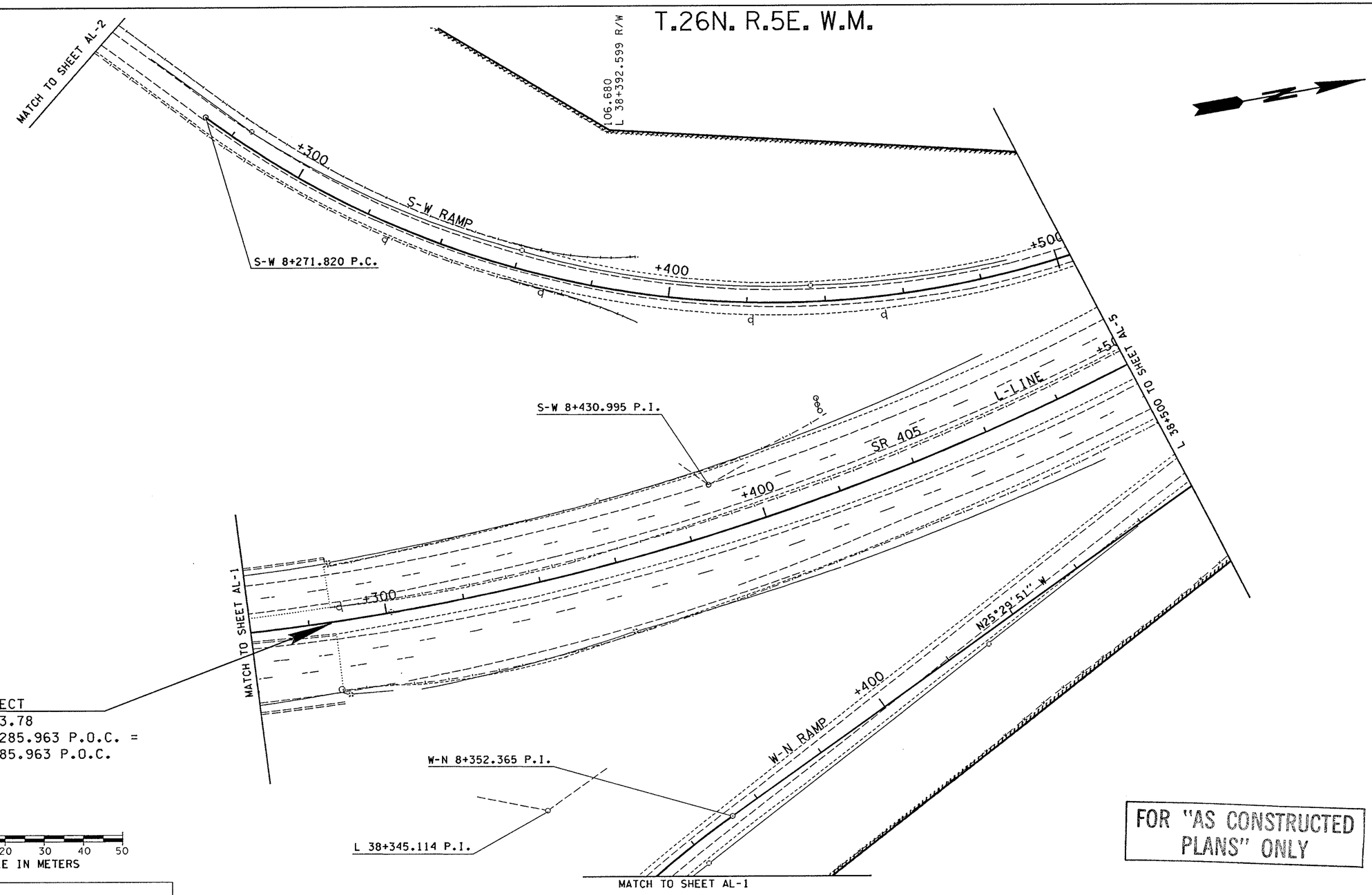

BEGIN PROJECT
SR405 MP 23.78
STA. L 38+285.963 P.O.C. =
R/W L 38+285.963 P.O.C.

0 10 20 30 40 50
SCALE IN METERS

NOTE:
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FOR "AS CONSTRUCTED PLANS" ONLY

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PROJ. ENGR. R.KINOSHITA	6/15/96				
REGIONAL ADM. J. OKAMOTO	6/15/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
95W035		
CONTRACT NO.		
5054		

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ALIGNMENT AND R/W PLAN

AL-4

SHEET 95 OF 663 SHEETS

PLOTT 09 NOV 96 s:\412347\2095\95algn1.dgn $(username)
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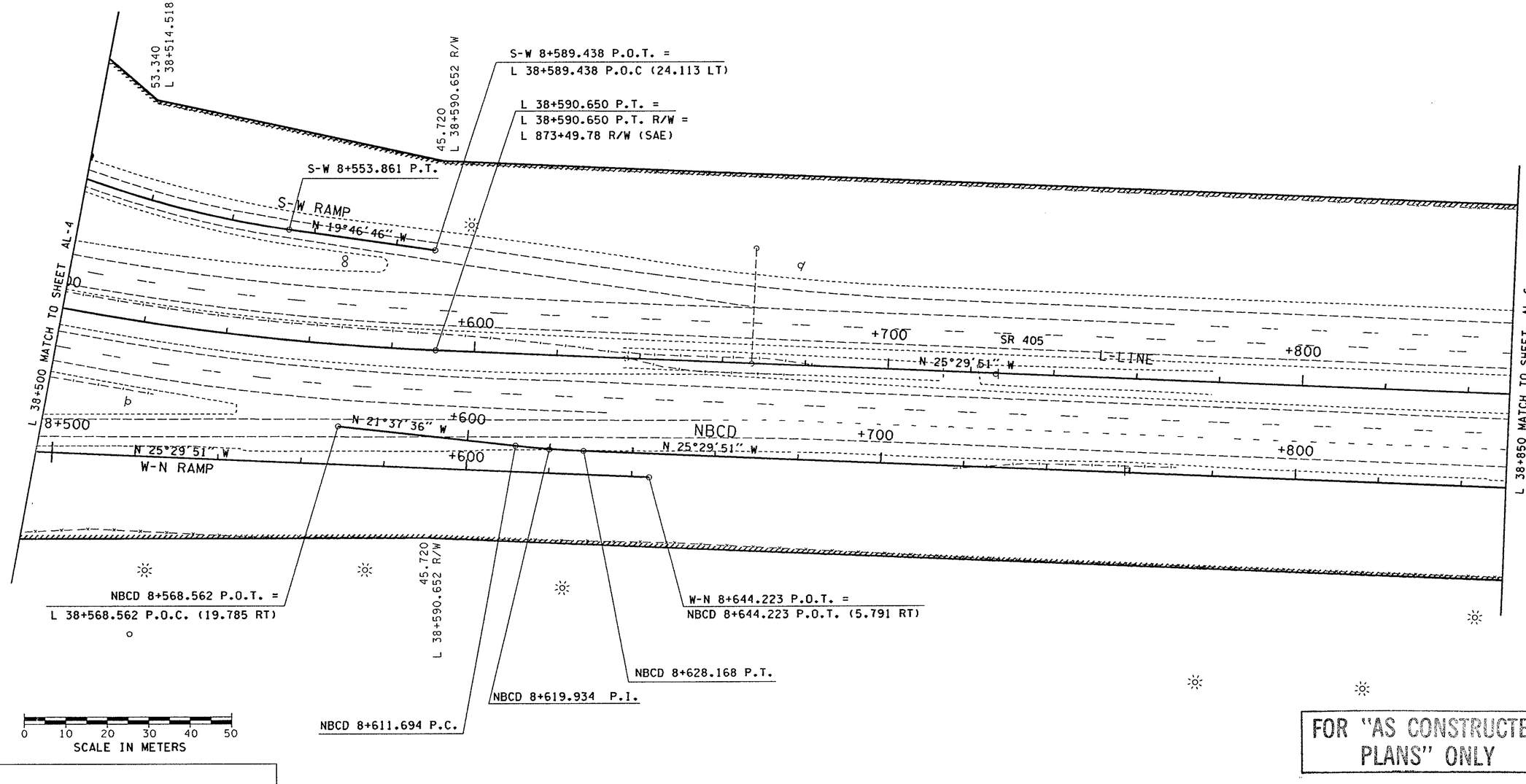
Sat Nov 09 16:36:34 1996 D412347

T.26N. R.5E. W.M.

CURVE DATA - CONST. & R/W					
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
L 38+345.114	46°43'59"L	640.081	276.544	522.080	
S-W 8+430.996	66°16'19"L	243.840	159.176	282.041	
NBCD 8+619.934	03°52'15"L	243.840	8.240	16.474	
W-N 8+250.368	48°09'56" R	259.081	115.799	217.795	



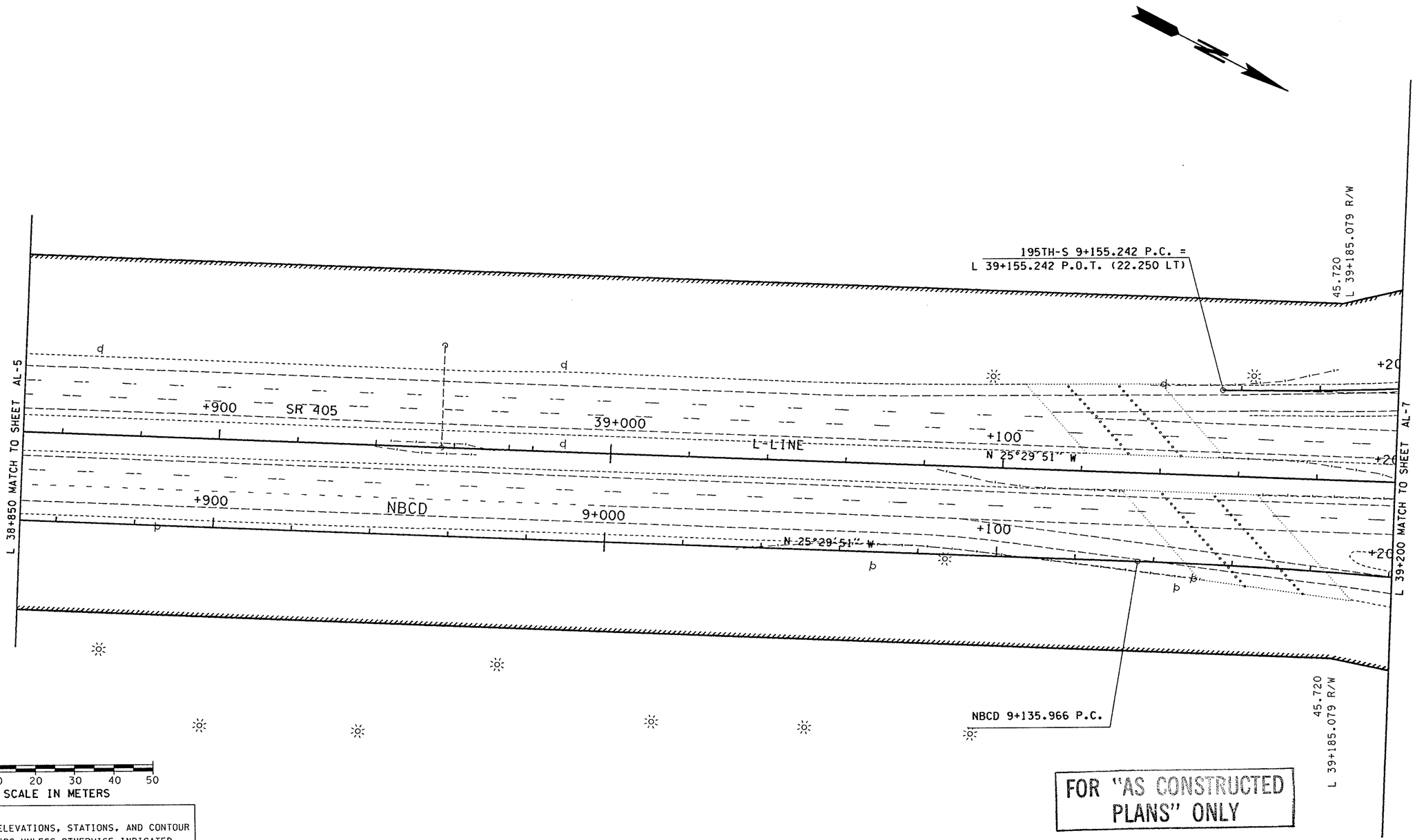
FOR "AS CONSTRUCTED PLANS" ONLY

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

					REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
DESIGNED BY D. MOON	6/15/96				10	WASH		Washington State Department of Transportation
ENTERED BY M. DO	6/15/96				JOB NUMBER 95W035			SR 405 BOTHELL TO SWAMP CREEK I/C HOV LANES - STAGE 1
CHECKED BY N. ABEDIN	6/15/96							ALIGNMENT AND R/W PLAN
PROJ. ENGR. R.KINOSHITA	6/15/96				CONTRACT NO. 5054			AL-5
REGIONAL ADM. J. OKAMOTO	6/15/96							SHEET 96 OF 663 SHEETS
	DATE	DATE	REVISION	BY				

PLOT8 09 NOV 96 s:\412347\12095\95algn1.dgn $(username)
Sat Nov 09 16:36:48 1996 D412347 T:\412347\A\34F1U-8.PLT

T.26N. R.5E. W.M.



FOR "AS CONSTRUCTED PLANS" ONLY

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

DESIGNED BY D. MOON	6/15/96				
ENTERED BY M. DO	6/15/96				
CHECKED BY N. ABEDIN	6/15/96				
PROJ. ENGR. R.KINOSHITA	6/15/96				
REGIONAL ADM. J. OKAMOTO	6/15/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 95W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ALIGNMENT AND R/W PLAN

AL-6

SHEET 97 OF 663 SHEETS

T:\412347\A\34F1U-9.PLT $(username) s:\412347\12095\95algn1.dgn 09 NOV 96 PLOT9
Sat Nov 09 16:37:02 1996 D412347

T.26N. R.5E. W.M.

CURVE DATA - CONST. & R/W					
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
195TH-S 9+261.527	08°06'47"L	130.455	9.252	18.472	
L 39+337.472	18°30'00"R	609.601	99.280	196.832	
195TH-S 9+371.660	24°41'31"R	125.578	27.486	54.118	
S-195TH 9+441.833	23°43'29"R	152.400	32.011	63.105	
N-195TH 9+275.713	14°49'04"R	304.801	39.635	78.827	
NBCD 9+334.525	18°30'00" R	1219.202	198.560	393.663	
195TH-S 9+203.799	06°06'28" L	910.139	48.557	97.021	

MONUMENT CASE & COVER				
STATION	LEFT	RIGHT	ADJUST	REMOVE
NE 195TH 1+000.00 PT			••	
NE 195TH 1+024.201 POT			••	
NE 195TH 1+176.15 POT			••	
L 39+435.024 PT				••

LEGEND
⊕ MONUMENT CASE AND COVER

L 39+312.001R/W
123.120 LT

195TH-S 9+371.660 P.I.

L 39+392.534 R/W
123.754 LT.

L 39+427.650 R/W
115.841 LT.

NE 195TH 1+000.00 PT

S-195TH 9+441.833 P.I.

L 39+307.000 R/W
85.344 LT

N16°10'25"W

N16°00'47"W

S-195TH

195TH-S

195TH-S 9+270.748 P.T.

195TH-S 9+261.527 P.I.

195TH-S 9+252.275 P.C.C.

N 40°51'56" W

S-195TH 9+472.926 P.T.

S-195TH 9+409.821 P.C.

195TH-S 9+398.293 P.T.

S-195TH 9+392.469
NE 195TH 1+024.201

195TH-S 9+425.036
NE 195TH 1+024.201

NE 195TH ST.

195TH-S 9+344.174 P.C.

L 39+337.472 P.I.

L 39+435.024 P.T.

195TH-S 9+203.799 P.I.

L 39+238.192 P.C.

SR 405

L-LINE

N 6°59'51" W

L 39+200 MATCH TO SHEET AL-6

L 39+485 MATCH TO SHEET AL-8

NBCD

N-195TH 9+275.713 P.I.

NBCD 9+334.525 P.I.

N-195TH 9+409.698
NE 195TH 1+174.459

N 16°02'05" W

N-195TH

N-195TH N 01°13'01" W

N-195TH 9+236.078 P.C. =
NBCD 9+236.078 P.O.C. (8.534 RT)

N-195TH 9+314.905 P.T.

195TH-N N 23°50'27" W

195TH-N 9+408.476
NE 195TH 1+175.174

54.864
L 39+238.200 R/W

L 39+456.423 R/W
91.440

FOR "AS CONSTRUCTED PLANS" ONLY

0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

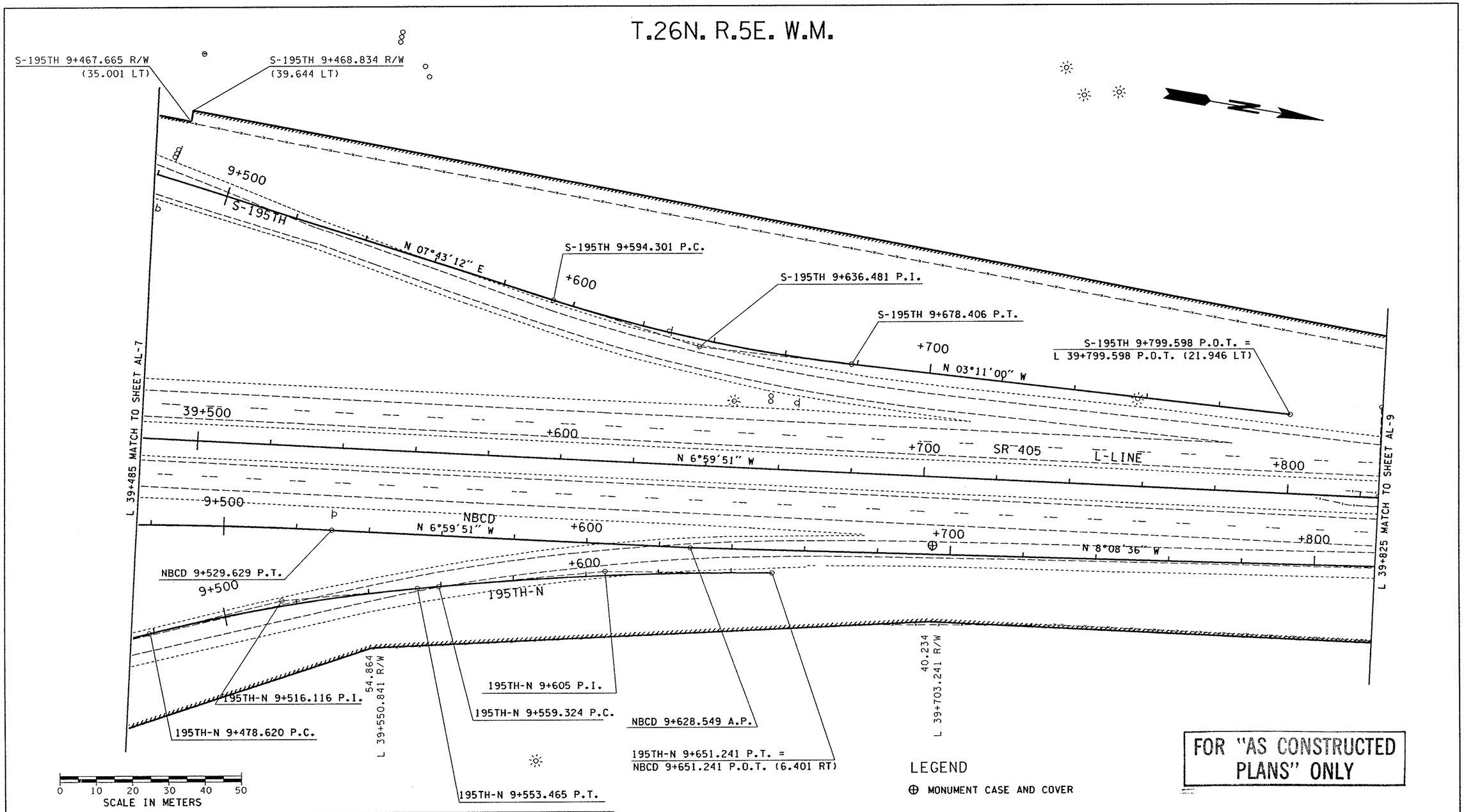
					REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
					10	WASH		
DESIGNED BY D. MOON	6/15/96				JOB NUMBER			Washington State Department of Transportation
ENTERED BY M. DO	6/15/96				95W035			
CHECKED BY N. ABEDIN	6/15/96				CONTRACT NO.			SR 405 BOTHELL TO SWAMP CREEK I/C HOV LANES - STAGE 1
PROJ. ENGR. R.KINOSHITA	6/15/96				5054			ALIGNMENT AND R/W PLAN
REGIONAL ADM. J. OKAMOTO	6/15/96							
	DATE	DATE	REVISION	BY				

AL-7

SHEET 98 OF 663 SHEETS

PLOT10 09 NOV 96 s:\412347\12095\95algnl.dgn $(username)
T:\412347\A\34F1U-10.PLT
Sat Nov 09 16:37:19 1996 D412347

T.26N. R.5E. W.M.



FOR "AS CONSTRUCTED PLANS" ONLY

LEGEND

⊕ MONUMENT CASE AND COVER

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

CURVE DATA - CONST. & R/W

P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
S-195TH 9+636.481	10°54'12" L	441.961	42.180	84.105	
195TH-N 9+516.116	08°47'36" R	487.681	37.496	74.846	
195TH-N 9+605.321	05°45'34" R	914.402	45.997	91.917	

MONUMENT CASE & COVER

STATION	LEFT	RIGHT	ADJUST	REMOVE
L 39+703.236 P.O.T.		19.812		••

DESIGNED BY	D. MOON	6/15/96			
ENTERED BY	M. DO	6/15/96			
CHECKED BY	N. ABEDIN	6/15/96			
PROJ. ENGR.	R.KINOSHITA	6/15/96			
REGIONAL ADM.	J. OKAMOTO	6/15/96			
		DATE	DATE	REVISION	BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER 95W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ALIGNMENT AND R/W PLAN

AL-8

SHEET 99 OF 663 SHEETS

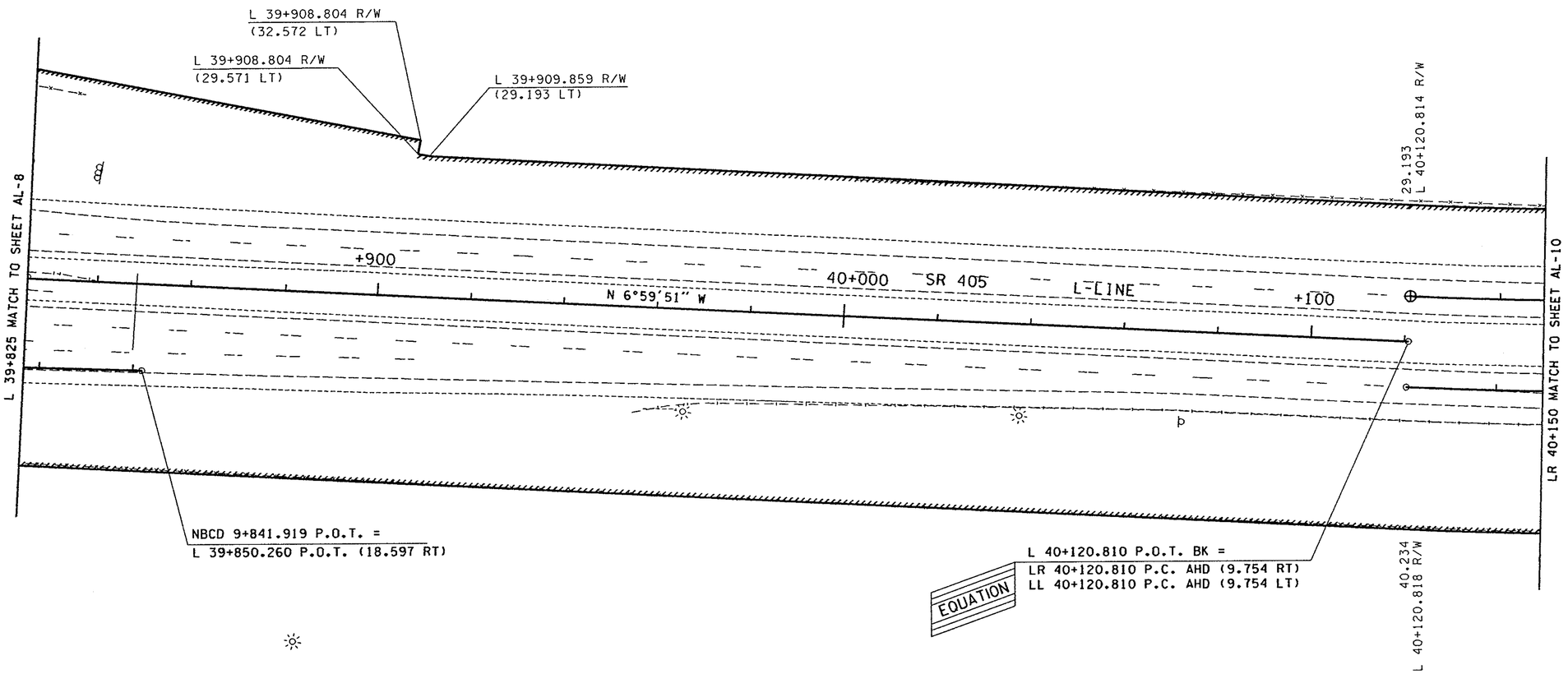
T:\412347\A\34F1U-11.PLT 09 NOV 96 s:\412347\12095\95algn1.dgn $(username) PLOT11 Sat Nov 09 16:37:34 1996 D412347

T.26N. R.5E. W.M.

MONUMENT CASE & COVER				
STATION	LEFT	RIGHT	ADJUST	REMOVE
LL 40+120.810 P.C.			**	

LEGEND

⊕ MONUMENT CASE AND COVER



0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	D. MOON	6/15/96			
ENTERED BY	M. DO	6/15/96			
CHECKED BY	N. ABEDIN	6/15/96			
PROJ. ENGR.	R.KINOSHITA	6/15/96			
REGIONAL ADM.	J. OKAMOTO	6/15/96			
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 95W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ALIGNMENT AND R/W PLAN

AL-9

SHEET 100 OF 663 SHEETS

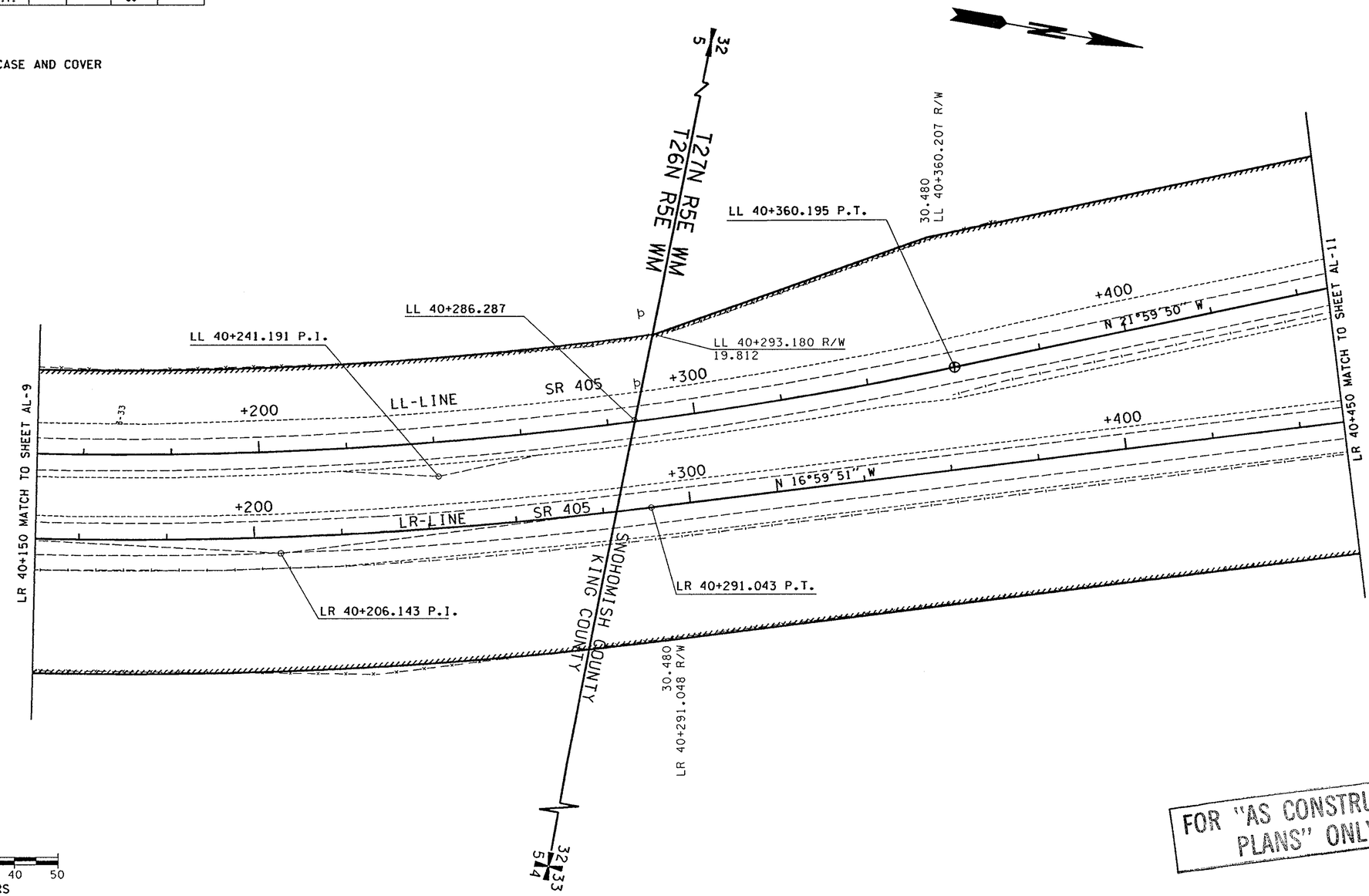
PLOT: \412347\A\34F1U-12.PLT
PLOT12 09 NOV 96 s:\412347\12095\95algn1.dgn $(username)
Sat Nov 09 16:42:42 1996 D412347

T.26N. & T.27N. R.5E. W.M.

MONUMENT CASE & COVER				
STATION	LEFT	RIGHT	ADJUST	REMOVE
LL 40+360.195 P.T.			••	

LEGEND

⊕ MONUMENT CASE AND COVER



0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

FOR "AS CONSTRUCTED PLANS" ONLY

CURVE DATA - CONST. & R/W					
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
LR 40+206.143	10°00'00"L	975.362	85.333	170.233	
LL 40+241.191	14°59'59"L	914.402	120.381	239.385	

DESIGNED BY D. MOON	6/15/96				
ENTERED BY M. DO	6/15/96				
CHECKED BY N. ABEDIN	6/15/96				
PROJ. ENGR. R.KINOSHITA	6/15/96				
REGIONAL ADM. J. OKAMOTO	6/15/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 95W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ALIGNMENT AND R/W PLAN

AL-10

SHEET 101 OF 663 SHEETS

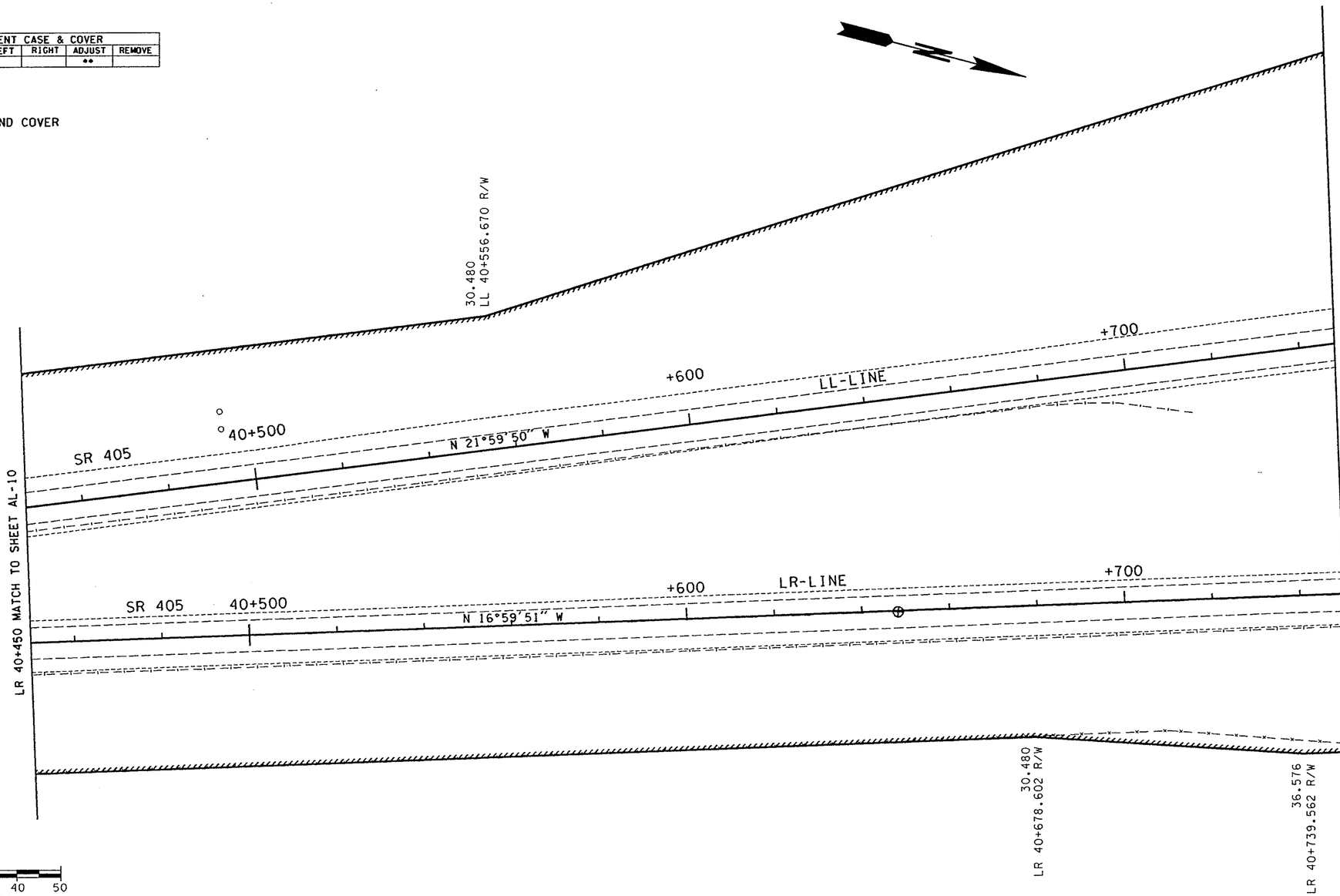
PLOT13 09 NOV 96 s:\412347\12095\95algn1.dgn $(username)
T:\412347\A\34F1U-13.PLT
Sat Nov 09 16:42:55 1996 D412347

T.27N. R.5E. W.M.

MONUMENT CASE & COVER				
STATION	LEFT	RIGHT	ADJUST	REMOVE
LR 40+648.115 P.O.T.			**	

LEGEND

⊕ MONUMENT CASE AND COVER



0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

FOR "AS CONSTRUCTED PLANS" ONLY

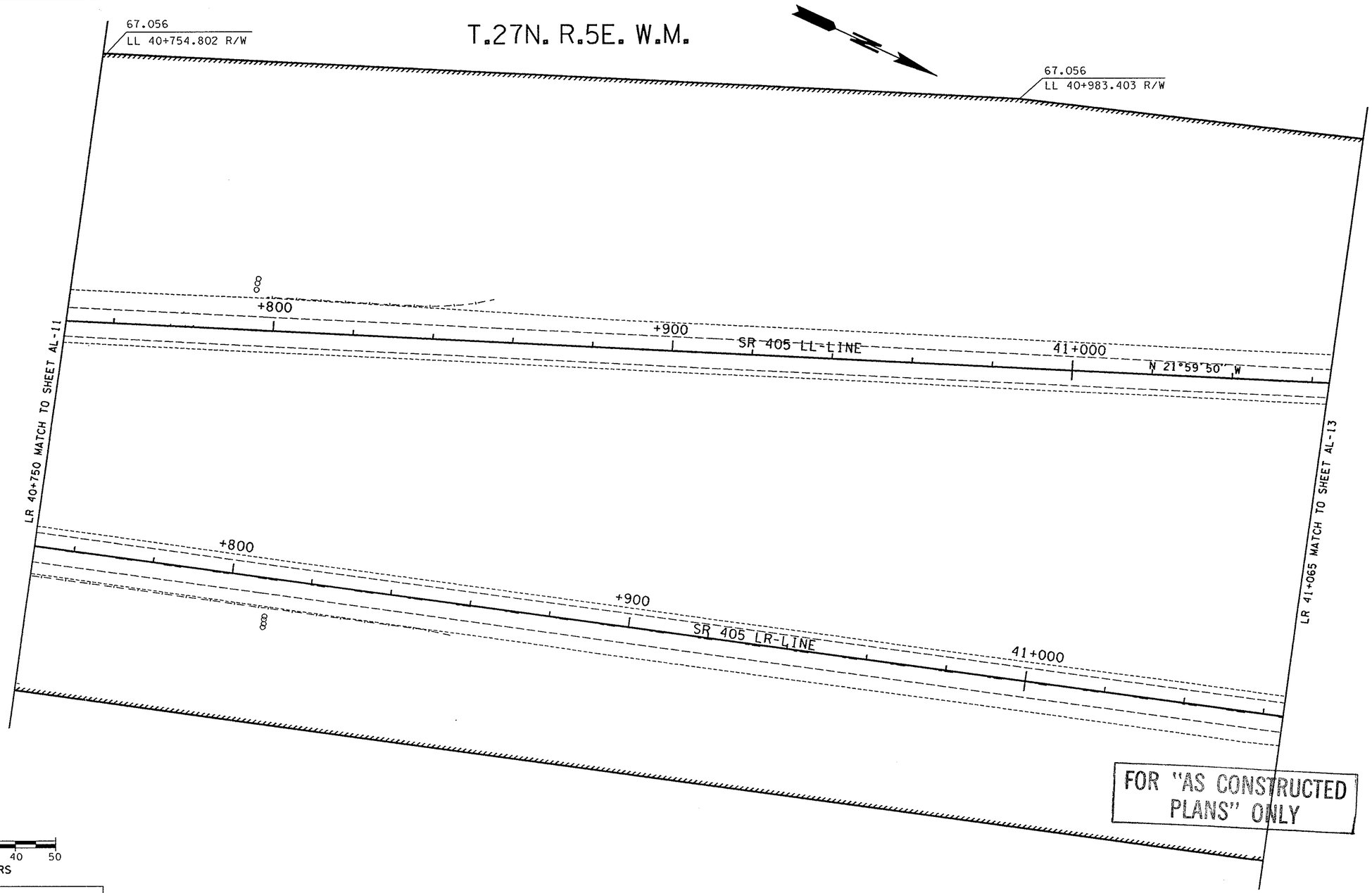
					REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
					10	WASH		
DESIGNED BY D. MOON	6/15/96				JOB NUMBER			Washington State Department of Transportation
ENTERED BY M. DO	6/15/96				95W035			
CHECKED BY N. ABEDIN	6/15/96				CONTRACT NO.			SR 405 BOTHELL TO SWAMP CREEK I/C HOV LANES - STAGE 1
PROJ. ENGR. R.KINOSHITA	6/15/96				5054			ALIGNMENT AND R/W PLAN
REGIONAL ADM. J. OKAMOTO	6/15/96							
	DATE	DATE	REVISION	BY				

AL-11

SHEET 102 OF 663 SHEETS

PLOT1 09 NOV 96 s:\412347\l2095\95algn2.dgn $(username)
Sat Nov 09 16:43:08 1996 D412347 T:\412347\A\35F1U-1.PLT

T.27N. R.5E. W.M.



FOR "AS CONSTRUCTED PLANS" ONLY

0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

DESIGNED BY D. MOON	06/06/96				
ENTERED BY M. DO	06/06/96				
CHECKED BY N. ABEDIN	06/06/96				
PROJ. ENGR. R. KINOSHITA	06/06/96				
REGIONAL ADM. J. OKAMOTO	06/06/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ALIGNMENT AND R/W PLAN

AL-12

SHEET 103 OF 663 SHEETS

PLOT2 09 NOV 96 s:\412347\2095\95algn2.dgn $(username)
Sat Nov 09 16:43:21 1996 D412347 T:\412347\A\35F1U-2.PLT

T.27N. R.5E. W.M.

LEGEND

⊕ MONUMENT CASE AND COVER

60.960
LL 41+076.431 R/W

48.768
LL 41+257.724 R/W

LL 41+069.095 P.C.

LL 41+076.433 P.C. R/W

+100 SR 405 LL-LINE +200 SR 405 +300

LR 41+065 MATCH TO SHEET AL-12

LR 41+400 MATCH TO SHEET AL-14

LR 41+094.283 P.C. R/W

N 16°59'51" W

+100 +200 SR 405 LR-LINE +300 +40

LR 41+344.153 P.I. (R/W)

LR 41+100.654 P.C.

36.576
LR 41+094.286 R/W

LR 41+350.523 P.I. (CONST.).

FOR "AS CONSTRUCTED PLANS" ONLY

LR 41+298.567 P.O.C. R/W
57.303RT

LR 41+363.208 P.O.C.
61.575RT.

32.33

0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

MONUMENT CASE & COVER

STATION	LEFT	RIGHT	ADJUST	REMOVE
LR 41+094.283 P.C.(R/W)			**	
LL 41+076.433 P.C.(R/W)			**	

CURVE DATA - CONST.

P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
LR 41+350.523	35°00'00" L	792.482	249.868	484.099	

CURVE DATA - R/W

P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
LR 41+344.153	35°00'00" L	792.485	249.869	484.101	

DESIGNED BY D. MOON	06/06/96				
ENTERED BY M. DO	06/06/96				
CHECKED BY N. ABEDIN	06/06/96				
PROJ. ENGR. R. KINOSHITA	06/06/96				
REGIONAL ADM. J. OKAMOTO	06/06/96				
	DATE	DATE	REVISION	BY	

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ALIGNMENT AND R/W PLAN

AL-13

SHEET 104 OF 663 SHEETS

PLOT3 09 NOV 96 s:\412347\12095\95align2.dgn $(username)
T:\412347\A\35F1U-3.PLT
Sat Nov 09 16:43:34 1996 D412347

T.27N. R.5E. W.M.

CURVE DATA - CONST.					
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
LL 41+477.418	29°59'52" L	1524.003	408.324	797.907	

CURVE DATA - R/W					
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
LL 41+484.789	29°59'59" L	1524.022	408.357	797.969	

41.148
LL 41+410.124 R/W

38.100
LL 41+532.044 R/W

41.148
LL 41+623.484 R/W

+400

41+500

SR 405 LL-LINE

+600

LR 41+400 MATCH TO SHEET AL-13

LL 41+477.418 P.I. (CONST)

LL 41+484.789 P.I. (R/W)

41+500

SR 405 LR-LINE

+600

N 51°59'51" W

LR 41+700 MATCH TO SHEET AL-15

LR 41+501.563 R/W
30.480

LR 41+578.386 P.T. R/W

LR 41+584.754 P.T.

38.100
LR 41+578.386 R/W

38.100
LR 41+684.445 R/W

22.29

LR 41+501.564 R/W
65.532

NOTE:
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0 10 20 30 40 50
SCALE IN METERS

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY D. MOON	06/06/96				
ENTERED BY M. DO	06/06/96				
CHECKED BY N. ABEDIN	06/06/96				
PROJ. ENGR. R. KINOSHITA	06/06/96				
REGIONAL ADM. J. OKAMOTO	06/06/96				
	DATE	DATE	REVISION	BY	

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ALIGNMENT AND R/W PLAN

AL-14

SHEET 105 OF 663 SHEETS

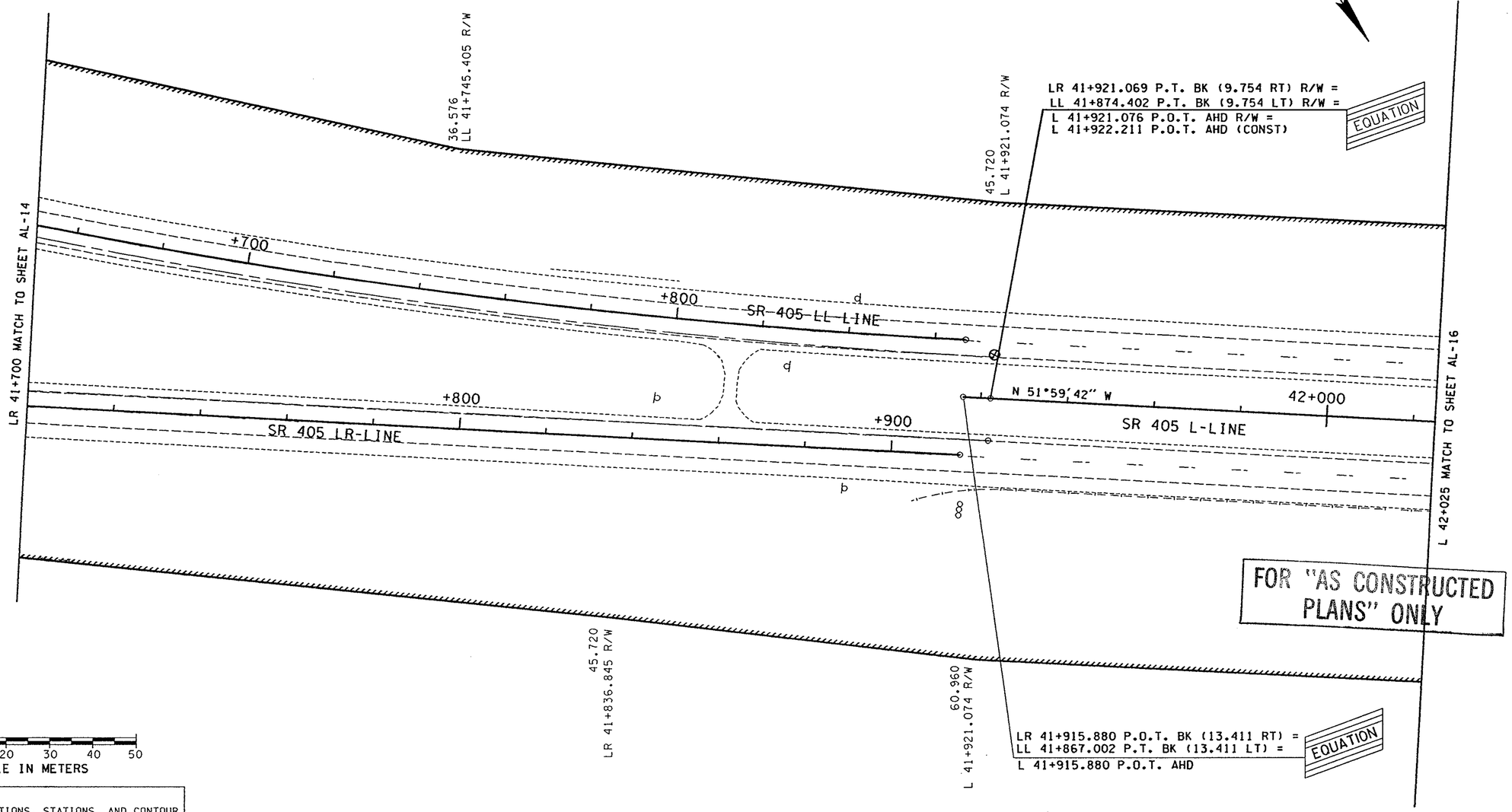
PLOT4 09 NOV 96 s:\412347\l2095\95algn2.dgn $(username)
Sat Nov 09 16:47:43 1996 D412347 T:\412347\A\35F1U-4.PLT

T.27N. R.5E. W.M.

MONUMENT CASE & COVER				
STATION	LEFT	RIGHT	ADJUST	REMOVE
LL 41+874.002 P.T. BK. (R/W)			••	

LEGEND

⊗ MONUMENT CASE AND COVER



NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

					REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
DESIGNED BY D. MOON	06/06/96				10	WASH		Washington State Department of Transportation
ENTERED BY M. DO	06/06/96				JOB NUMBER 96W035			SR 405 BOTHELL TO SWAMP CREEK I/C HOV LANES - STAGE 1
CHECKED BY N. ABEDIN	06/06/96							ALIGNMENT AND R/W PLAN
PROJ. ENGR. R. KINOSHITA	06/06/96				CONTRACT NO. 5054			AL-15
REGIONAL ADM. J. OKAMOTO	06/06/96							SHEET 106 OF 663 SHEETS
	DATE	DATE	REVISION	BY				

T:\412347\A\35F1U-5.PLT
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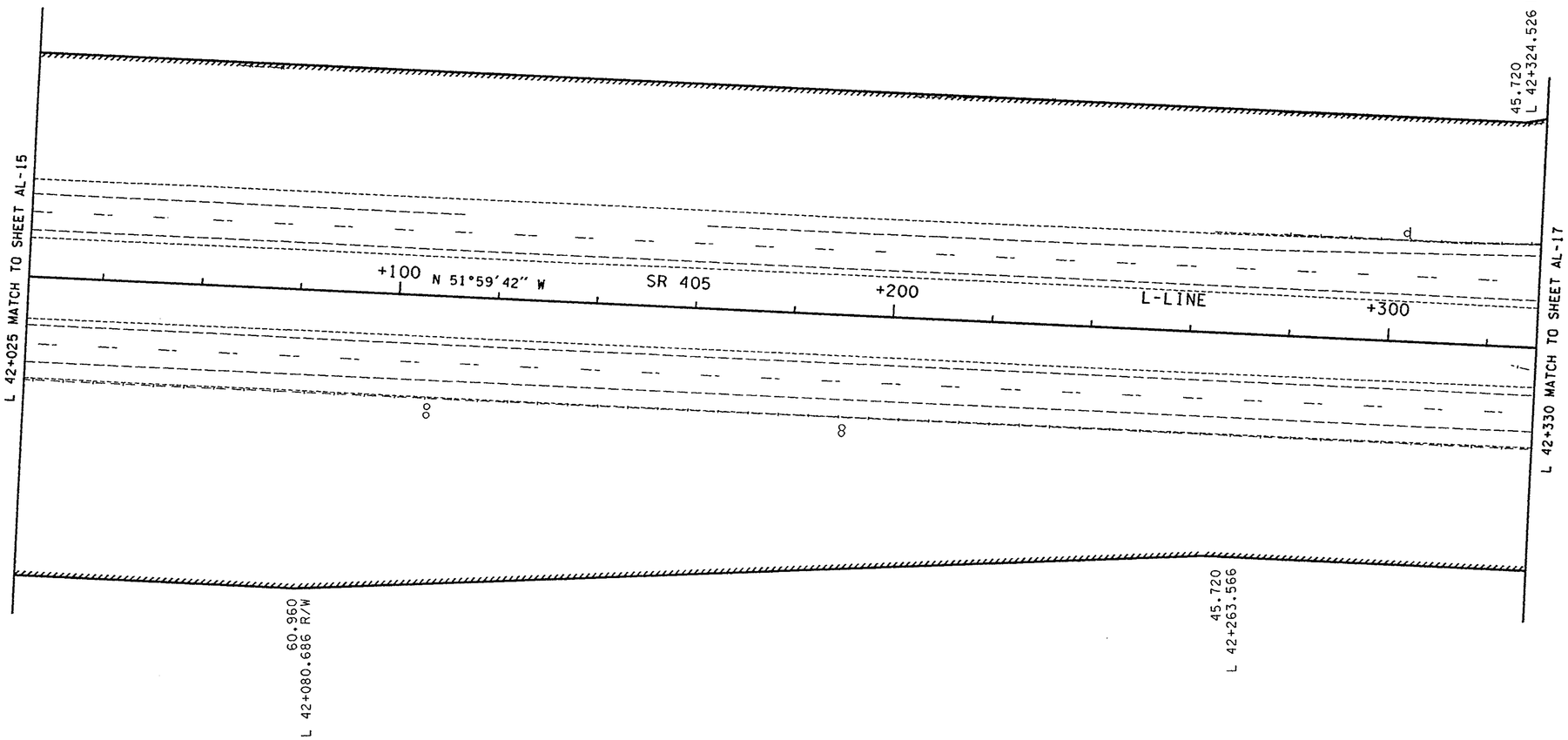
Sat Nov 09 16:47:56 1996 D412347 T:\

T.27N. R.5E. W.M.



0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

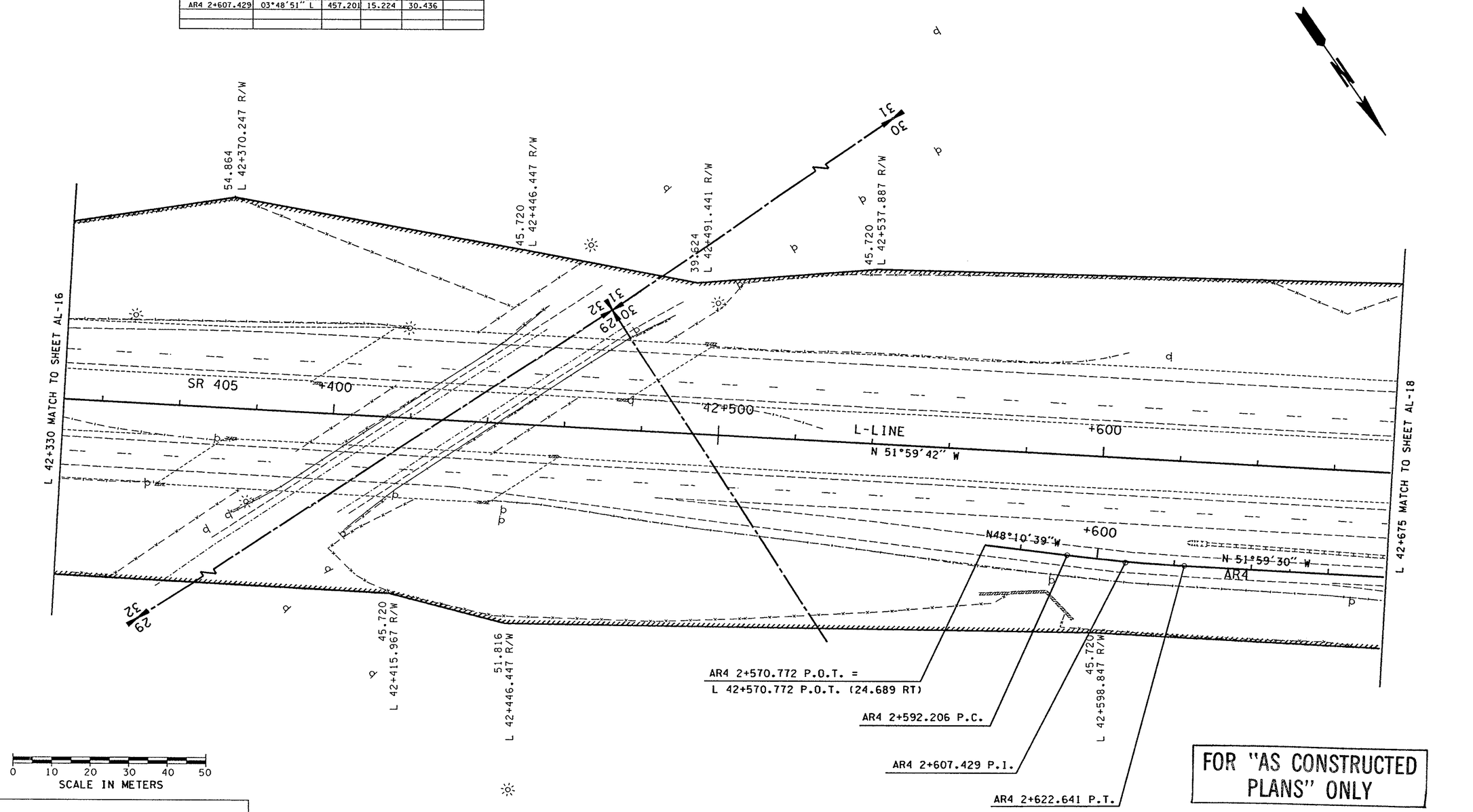
FOR "AS CONSTRUCTED PLANS" ONLY

					REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER	SR 405 BOTHELL TO SWAMP CREEK I/C HOV LANES - STAGE 1
					10	WASH			AL-16
DESIGNED BY D. MOON	06/06/96				JOB NUMBER 96W035			Washington State Department of Transportation	ALIGNMENT AND R/W PLAN
ENTERED BY M. DO	06/06/96								SHEET 107 OF 663 SHEETS
CHECKED BY N. ABEDIN	06/06/96								
PROJ. ENGR. R. KINOSHITA	06/06/96								
REGIONAL ADM. J. OKAMOTO	06/06/96				CONTRACT NO. 5054				
	DATE	DATE	REVISION	BY					

PLOT: \412347\A\35F1U-6.PLT
PLOT6 09 NOV 96 s:\412347\12095\95align2.dgn $(username)
Sat Nov 09 16:48:08 1996 D412347

T.27N. R.5E. W.M.

CURVE DATA					
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
AR4 2+607.429	03°48'51" L	457.201	15.224	30.436	



0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY D. MOON	06/06/96				
ENTERED BY M. DO	06/06/96				
CHECKED BY N. ABEDIN	06/06/96				
PROJ. ENGR. R. KINOSHITA	06/06/96				
REGIONAL ADM. J. OKAMOTO	06/06/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
96W035		
CONTRACT NO.		
5054		

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ALIGNMENT AND R/W PLAN

AL-17

SHEET 108 OF 663 SHEETS

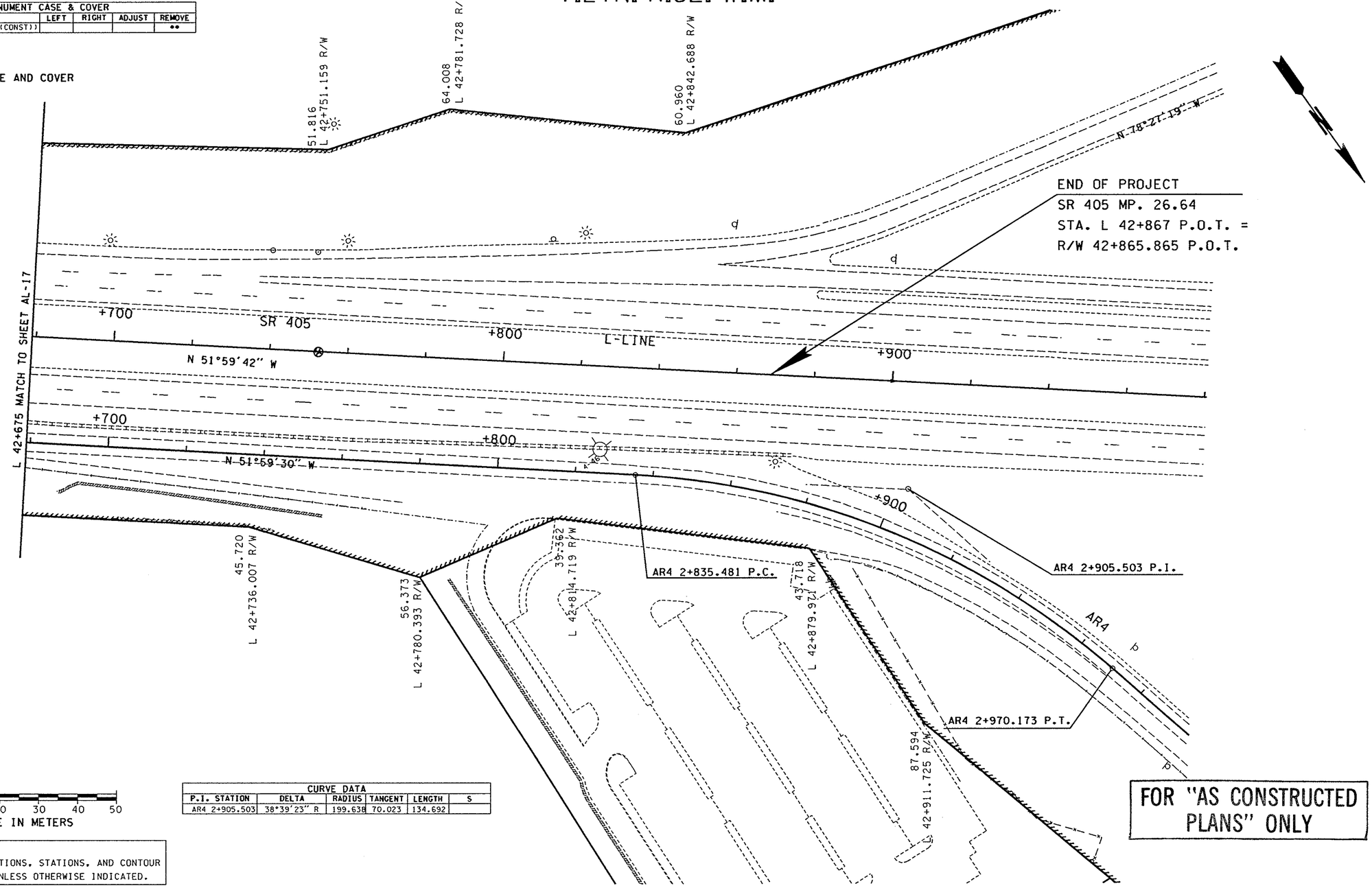
PLOT7 09 NOV 96 s:\412347\12095\95align2.dgn $(username)
T:\412347\A\35F1U-7.PLT
Sat Nov 09 16:48:22 1996 D412347

T.27N. R.5E. W.M.

MONUMENT CASE & COVER				
STATION	LEFT	RIGHT	ADJUST	REMOVE
L 42+752.238 P.O.T. (CONST))				••

LEGEND

⊗ MONUMENT CASE AND COVER



0 10 20 30 40 50
SCALE IN METERS

CURVE DATA					
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
AR4 2+905.503	38°39'23" R	199.638	70.023	134.692	

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

						REGION NO.	STATE	FED.AID PROJ.NO.
						10	WASH	
DESIGNED BY D. MOON	06/06/96					JOB NUMBER 96W035		
ENTERED BY M. DO	06/06/96							
CHECKED BY N. ABEDIN	06/06/96							
PROJ. ENGR. R. KINOSHITA	06/06/96					CONTRACT NO. 5054		
REGIONAL ADM. J. OKAMOTO	06/06/96							
	DATE	DATE	REVISION		BY			

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

ALIGNMENT AND R/W PLAN

AL-18

SHEET 109 OF 663 SHEETS

Sat Nov 09 16:48:36 1996 D412347 T:\412347\A\36F1U-1.PLT
PLOT1 09 NOV 96 s:\412347\2095\newprof.dgn $(username)

ROADWAY SECTION C
RAMP SECTION D

RAMP SECTION F

+ 2 % RIGHT

℄ PROFILE GRADE AND PIVOT POINT

-2 % LEFT

SEE PAVING PLAN SHEET PV-3

+4 %
0 %
-4 %

NBCD 8 + 568.562 = L 38 + 568.562 (19.785 RT) EL 10.995

NBCD 8 + 611.694 PC

NBCD 8 + 628.168 PT

NBCD 8 + 650

-1.6893 %

40 V.C

PROFILE GRADE

-0.4917 %

EXISTING GROUND

60 V.C

+0.4017 %

BVC 8 + 590 EL 10.633

VPI 8 + 610 EL 10.295

EVC 8 + 630 EL 10.197

BVC 8 + 820 EL 9.263

VPI 8 + 860 EL 9.115

EVC 8 + 880 EL 9.236

MATCH LINE SHEET RP2

14
12
10
8
6

RAMP QUANTITIES BREAKDOWN SEE QTP-1 TO QTP-10

FOR "AS CONSTRUCTED PLANS" ONLY

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

DATUM
N.G.V.D. OF 1929

NBCD LINE

8+560 8+580 8+600 8+620 8+640 8+660 8+680 8+700 8+720 8+740 8+760 8+780 8+800 8+820 8+840 8+860 8+880 8+900 8+920

DESIGNED BY A. LASZLO	04/29/96			
ENTERED BY A. NGUYEN	04/29/96			
CHECKED BY N. ABEDIN	04/29/96			
PROJ. ENGR. R. KINOSHITA	04/29/96			
REGIONAL ADM. BOB AYE	04/29/96			
	DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 96W035		
CONTRACT NO. 5054		

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

RAMP PROFILES

RP-1

SHEET 110 OF 663 SHEETS

T:\412347\A\36F1U-2.PLT
PLOT2 09 NOV 96 s:\412347\12095\newprof.dgn $(username)
Sat Nov 09 16:50:33 1996 D412347 T:

RAMP SECTION F | RAMP SECTION F | RAMP SECTION G

+4 %
0 %
-4 %

+2 % RIGHT
℄ PROFILE GRADE AND PIVOT POINT
-2 % LEFT

+2 % LEFT
-2 % RIGHT
+3 % LEFT
-3 % RIGHT

BEGIN TRANSITION LT & RT NBCD 9 + 095
NBCD 9 + 135.966 PC
END TRANSITION LT & RT NBCD 9 + 140
BEGIN TRANSITION LT & RT NBCD 9 + 197
END TRASITION LT & RT NBCD 9 + 230

MATCH LINE SHEET RP1

PROFILE GRADE
+0.401 7%
EXISTING GROUND
ANGLE POINT
+ 0.0656 %
BRIDGE 405/72 TO BE REBUILT
STA NBCD 9+147.89 TO
NBCD 9+183.485
91.448 V.C.
+0.3689 %

BVC 9 + 108.880
EL 10.155
VPI 9 + 154.608
EL 10.185
EVC 9 + 200.328
EL 10.354

MATCH LINE SHEET RP3

14
12
10
8
6

FOR "AS CONSTRUCTED PLANS" ONLY

RAMP QUANTITIES BREAKDOWN SEE QTP-1 TO QTP-10

DATUM
N.G.V.D. OF 1929

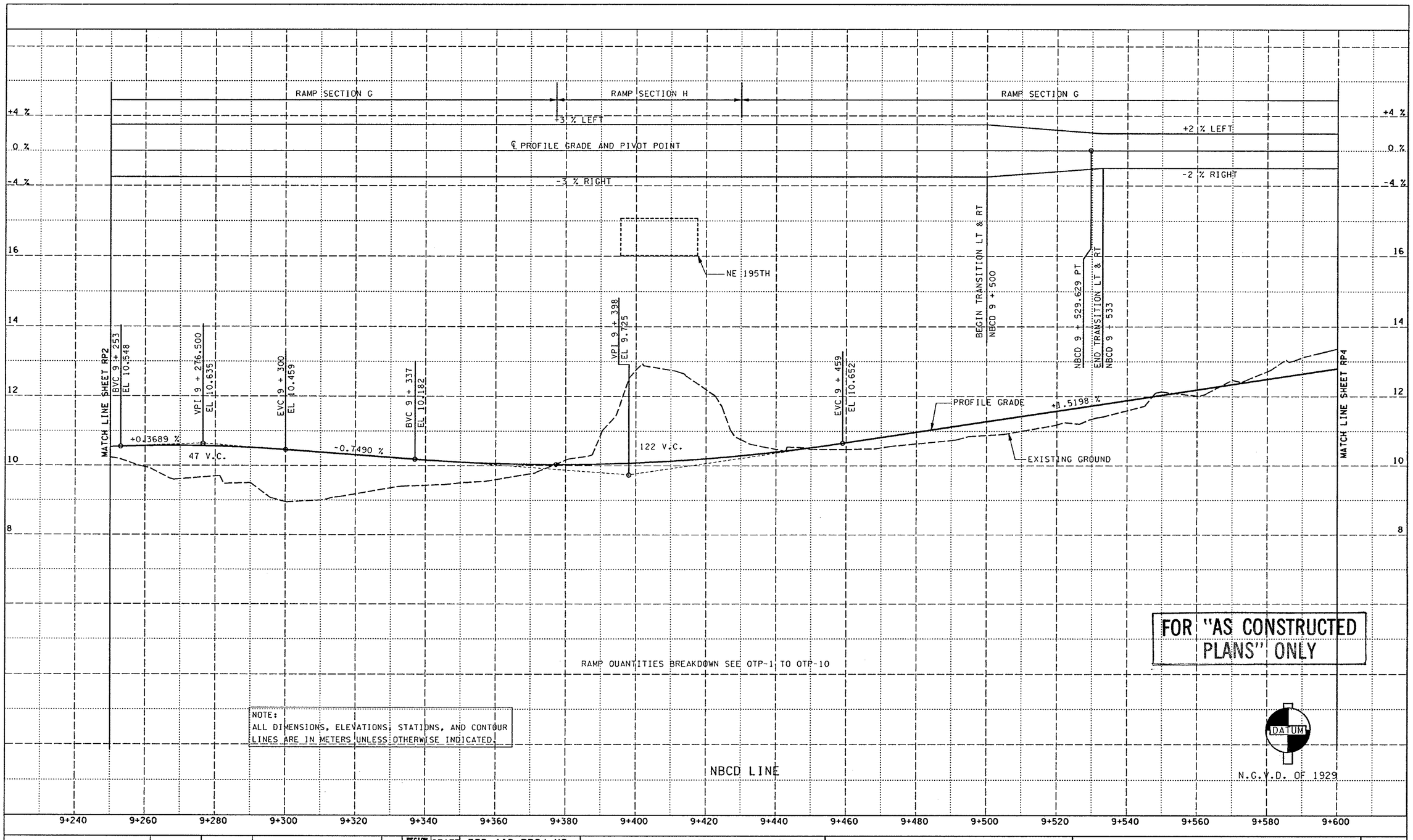
NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

NBCD LINE

8+920 8+940 8+960 8+980 9+000 9+020 9+040 9+060 9+080 9+100 9+120 9+140 9+160 9+180 9+200 9+220 9+240

					REGION NO. 10	STATE WASH	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
DESIGNED BY A. LASZLO	04/29/96							Washington State Department of Transportation
ENTERED BY A. NGUYEN	04/29/96				JOB NUMBER 96W035			SR 405 BOTHELL TO SWAMP CREEK I/C HOV LANES - STAGE 1
CHECKED BY N. ABEDIN	04/29/96							RP-2
PROJ. ENGR. R. KINOSHITA	04/29/96				CONTRACT NO. 5054			SHEET 111 OF 663 SHEETS
REGIONAL ADM. BOB AYE	04/29/96							RAMP PROFILES
	DATE	DATE	REVISION	BY				

T:\412347\A\36F1U-3.PLT
PLOT3 09 NOV 96 s:\412347\12095\newprof.dgn $(username)
Sat Nov 09 16:50:49 1996 D412347



RAMP QUANTITIES BREAKDOWN SEE OTP-1 TO OTP-10

FOR "AS CONSTRUCTED PLANS" ONLY

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

DATUM

N.G.V.D. OF 1929

NBCD LINE

DESIGNED BY A. LASZLO	04/29/96				
ENTERED BY A. NGUYEN	04/29/96				
CHECKED BY N. ABEDIN	04/29/96				
PROJ. ENGR. R. KINOSHITA	04/29/96				
REGIONAL ADM. BOB AYE	04/29/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

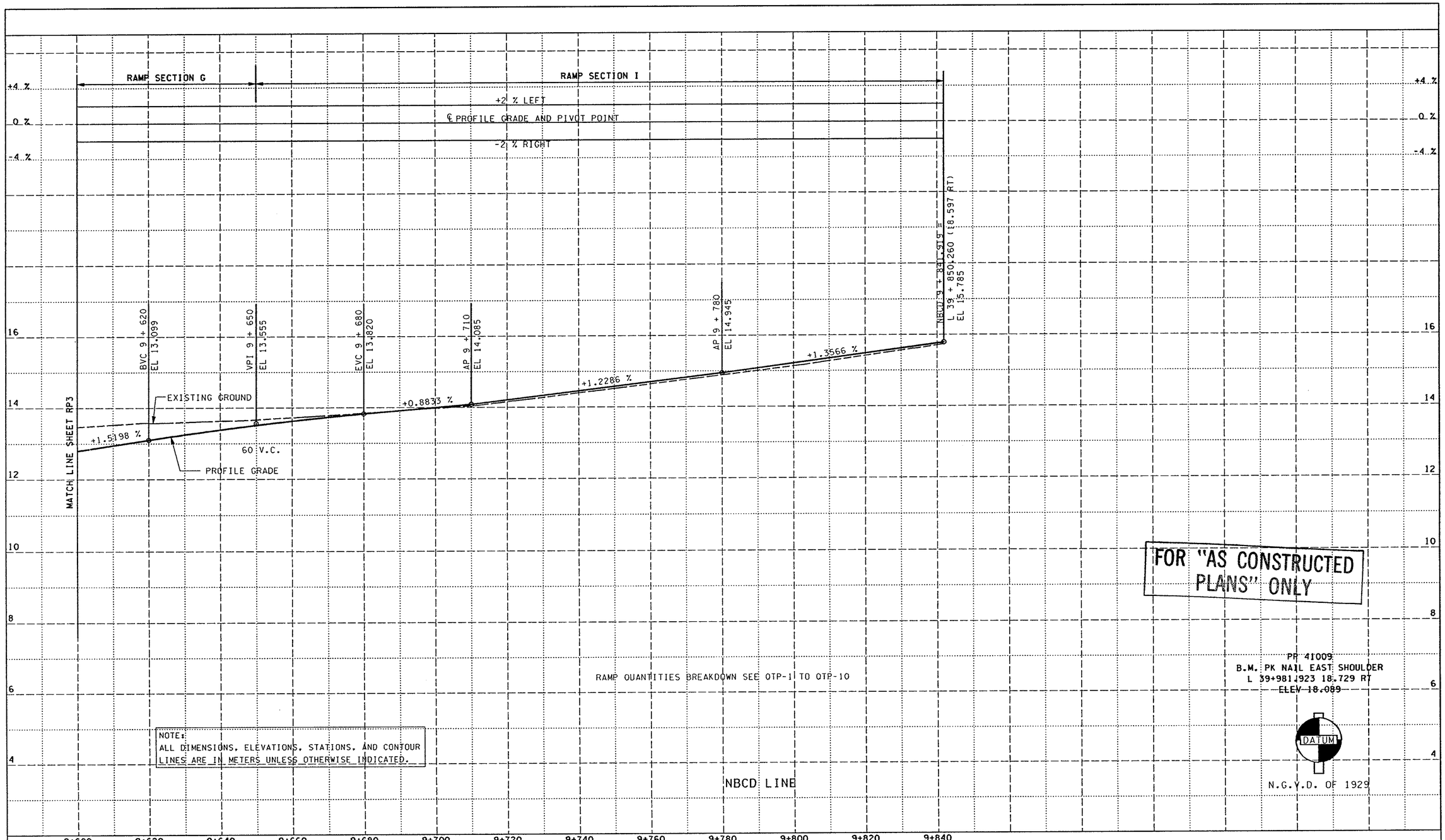
SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

RAMP PROFILES

RP-3

SHEET 112 OF 663 SHEETS

T:\412347\A\36F1U-4.PLT
Sat Nov 09 16:51:05 1996 D412347
PLOT4 09 NOV 96 s:\412347\12095\newprof.dgn $(username)



FOR "AS CONSTRUCTED PLANS" ONLY

RAMP QUANTITIES BREAKDOWN SEE QTP-1 TO QTP-10

PP 41009
B.M. PK NAIL EAST SHOULDER
L 39+981.923 18.729 RT
ELEV 18.089

DATUM

N.G.V.D. OF 1929

NBCD LINE

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

DESIGNED BY A. LASZLO	04/29/96			
ENTERED BY A. NGUYEN	04/29/96			
CHECKED BY N. ABEDIN	04/29/96			
PROJ. ENGR. R. KINOSHITA	04/29/96			
REGIONAL ADM. BOB AYE	04/29/96			
	DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

RAMP PROFILES

RP-4

SHEET 113 OF 663 SHEETS

C:\DGN\WohabVag Built L2095\NEWPROF.DGN

PLOT5

08:50:51 AM

06/22/2000

SchuerP

ROADWAY SECTION A

ROADWAY SECTION B

ROADWAY SECTION C

ROADWAY SECTION D

+8 %

+4 %

0 %

-4 %

-8 %

+7 % LEFT

-7 % RIGHT

+2 % LEFT

+2 % RIGHT

℄ PROFILE GRADE AND PIVOT POINT

-2 % RIGHT

-2 % LEFT

RFI 13

FOR "AS CONSTRUCTED PLANS" ONLY

BEGIN TRANSITION LT & RT W-N 8+337.365

BEGIN TRANSITION LT & RT W-N 8 + 340.698

W-N 8 + 352.365 PC

END TRANSITION LT & RT W-N 8 + 390.698

END TRANSITION LT & RT W-N 8+407.365

VPI 8 + 350 MATCH EXISTING EL 10.553

PROFILE GRADE

+0.5528 %

EXISTING GROUND

BVC 8 + 525 EL 11.520

VPI 8 + 545 EL 11.631

40 V.C.

EVC 8 + 565 EL 11.265

-1.8286 %

BVC 8 + 595 EL 10.717

VPI 8 + 615 EL 10.351

40 V.C.

EVC 8 + 635 EL 10.272

-0.3969 %

W-N 8 + 644.223 = NBCD 8 + 644.223 (5.791 RT) EL 10.235

14

12

10

8

8+340 8+360 8+380 8+400 8+420 8+440 8+460 8+480 8+500 8+520 8+540 8+560 8+580 8+600 8+620 8+640

RAMP QUANTITIES BREAKDOWN SEE QTP-1 TO QTP-10

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

LEGEND

RFI 13 — REQUEST FOR INFORMATION

DATUM — N.G.V.D. OF 1929

W-N RAMP

DESIGNED BY	A. LASZLO	04/29/96			REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
ENTERED BY	A. NGUYEN	04/29/96			JOB NUMBER 96W035		
CHECKED BY	N. ABEDIN	04/29/96			CONTRACT NO.		
PROJ. ENGR.	R. KINOSHITA	04/29/96					
REGIONAL ADM.	BOB AYE	04/29/96	05/19/97	RFI #13	ALM		
		DATE	DATE	REVISION	BY		

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

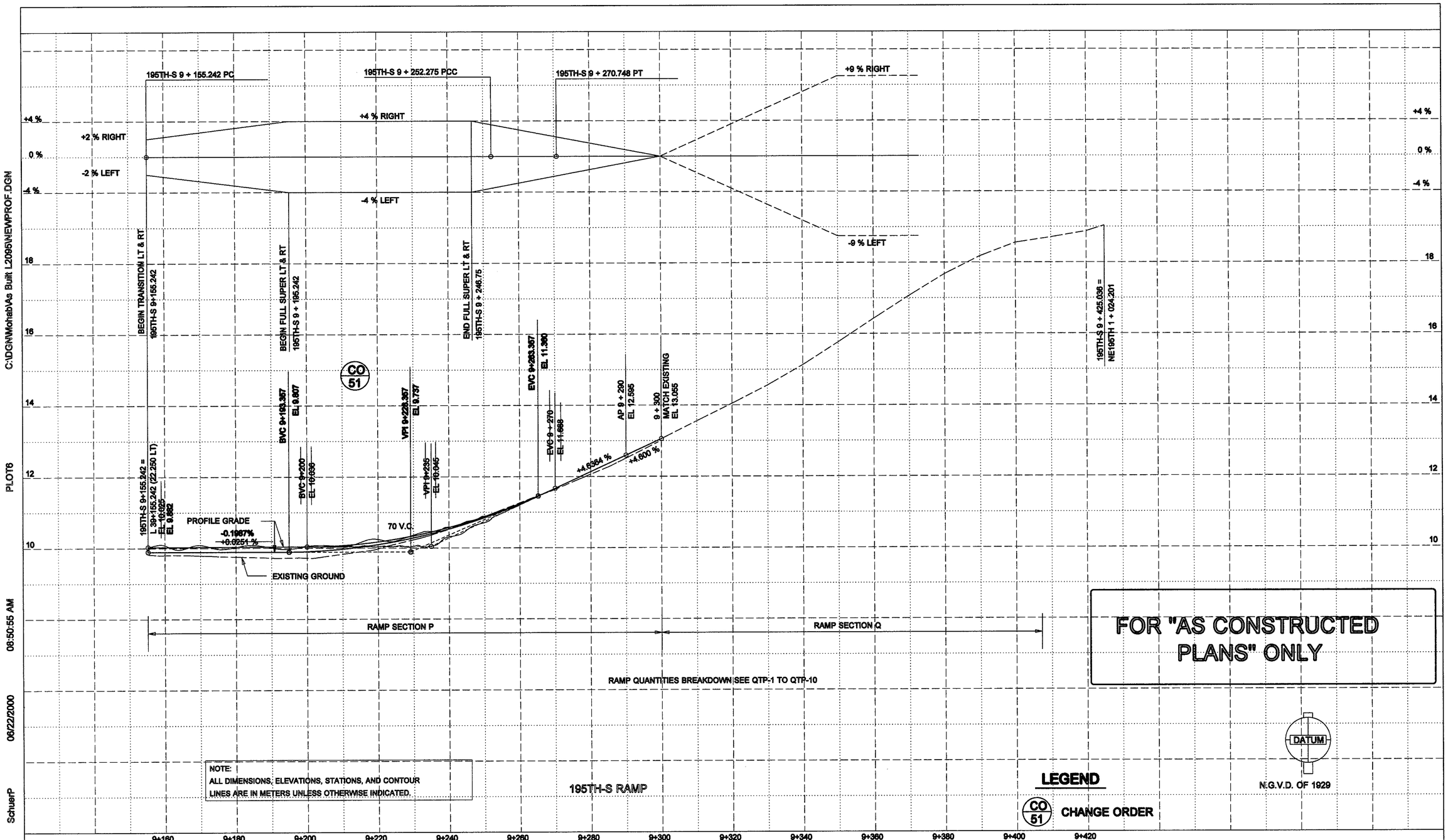
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

RAMP PROFILES

RP-5

SHEET 114 OF 663 SHEETS



C:\DGN\Mohabv4s Built L2095\NEWPROF.DGN
PLOT6
08:50:55 AM
06/22/2000
SchuerP

DESIGNED BY	A. LASZLO	04/29/96			
ENTERED BY	A. NGUYEN	04/29/96			
CHECKED BY	N. ABEDIN	04/29/96			
PROJ. ENGR.	R. KINOSHITA	04/29/96			
REGIONAL ADM.	BOB AYE	04/29/96	05/27/99	Change Order #51	LP
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
96W035		
CONTRACT NO.		

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

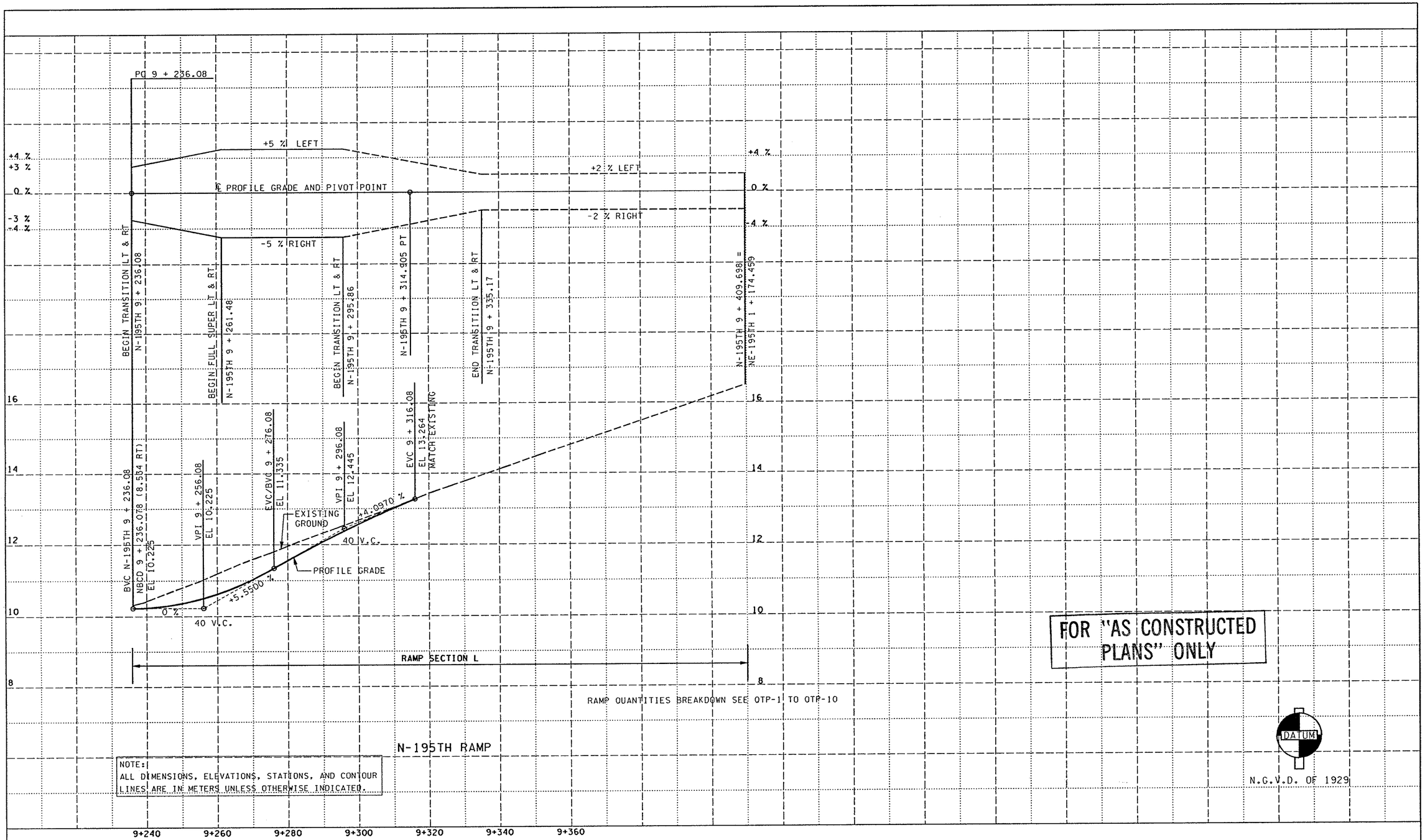
SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

RAMP PROFILES

RP-6

SHEET 115 OF 663 SHEETS

PLOT7 10 NOV 96 s:\412347\1\2095\newprof.dgn $(username)
Sun Nov 10 13:40:46 1996 D412347 T:\412347\A\28F1U-7.PLT



DESIGNED BY A. LASZLO	04/29/96				
ENTERED BY A. NGUYEN	04/29/96				
CHECKED BY N. ABEDIN	04/29/96				
PROJ. ENGR. R. KINOSHITA	04/29/96				
REGIONAL ADM. BOB AYE	04/29/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

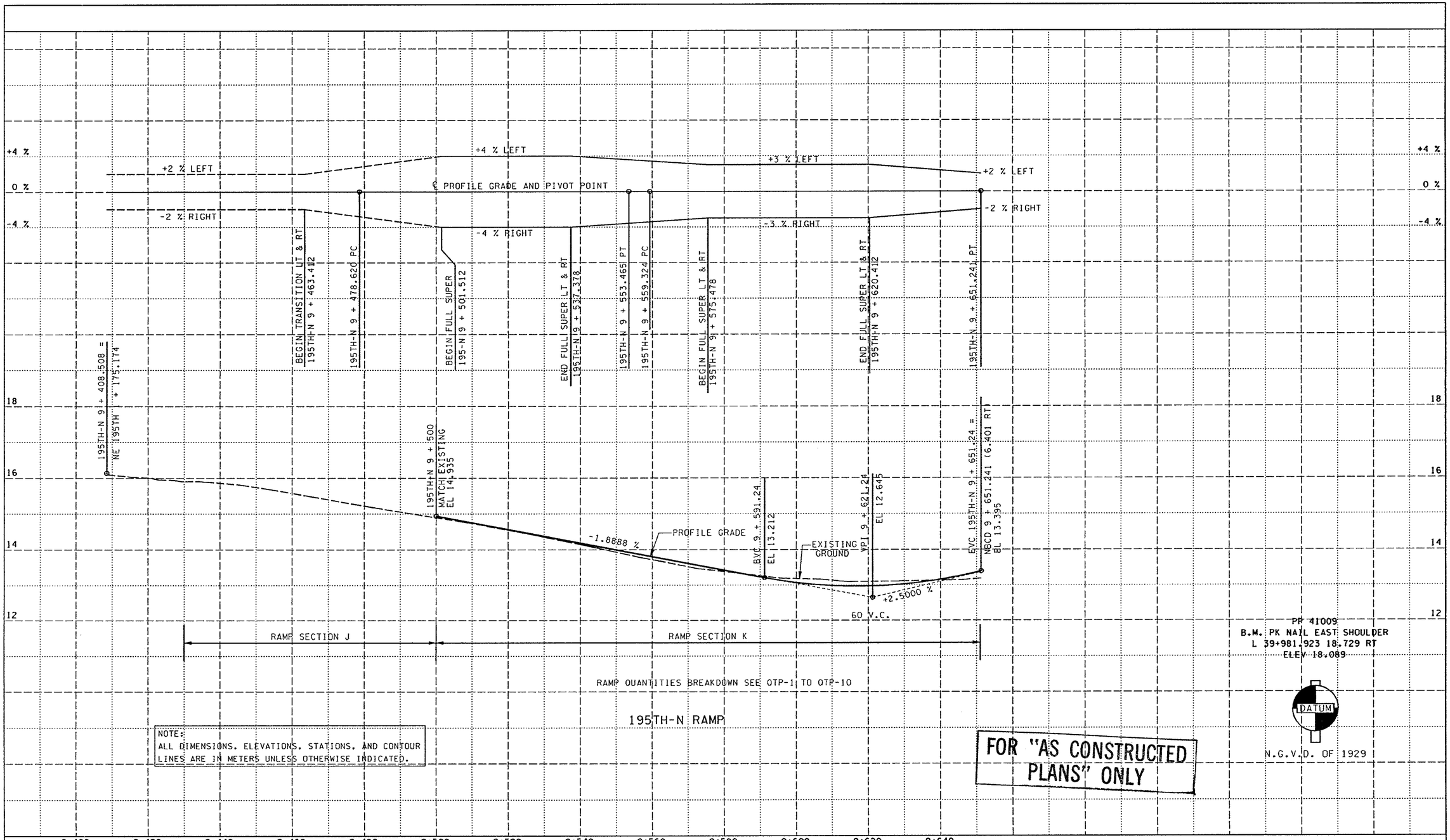
SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

RAMP PROFILES

RP-7

SHEET 116 OF 663 SHEETS

Sat Nov 09 16:52:57 1996 D412347 T:\412347\A\36F1U-8.PLT
PLOT8 09 NOV 96 s:\412347\l2095\newprof.dgn $(username)



RAMP QUANTITIES BREAKDOWN SEE OTP-1 TO OTP-10

195TH-N RAMP

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

PP 41009
B.M. PK NAIL EAST SHOULDER
L 39+981.923 18.729 RT
ELEV 18.089

DATUM
N.G.V.D. OF 1929

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY A. LASZLO	04/29/96				
ENTERED BY A. NGUYEN	04/29/96				
CHECKED BY N. ABEDIN	04/29/96				
PROJ. ENGR. R. KINOSHITA	04/29/96				
REGIONAL ADM. BOB AYE	04/29/96				
	DATE	DATE	REVISION	BY	

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

RAMP PROFILES

RP-8

SHEET 117 OF 663 SHEETS

Sat Nov 09 16:53:13 1996 D412347 T:\412347\A\36F1U-9.PLT

PLOT9 09 NOV 96 s:\412347\1209S\newprof.dgn $(username)

S-195TH 9 + 472.926 PT

S-195TH 9 + 584.301 PC

S-195TH 9 + 678.406 PT

+5.5 % LEFT

+2 % LEFT

+3 % LEFT

+2 % LEFT

℄ PROFILE GRADE AND PIVOT POINT

+2 % LEFT

-2 % RIGHT

-5.5 % RIGHT

-3 % RIGHT

BEGIN TRANSITION LT & RT
S-195TH 9 + 466.60

END TRANSITION LT & RT
S-195 TH 9 + 499.60

BEGIN TRANSITION LT & RT
S-195TH 9 + 590.80

BEGIN FULL SUPER LT & RT
S-195TH 9 + 625.80

END FULL SUPER LT & RT
S-195TH 9 + 639.91

END TRANSITION LT & RT
S-195TH 9 + 674.91

9 + 470
MATCH EXISTING
EL 17.365

-2.3663 %

BVC 9 + 567
EL 15.07

PROFILE GRADE

VPI 9 + 642
EL 13.295

150 V.C.

EVC 9 + 717
EL 14.128

+1.1104 %

EXISTING GROUND

S-195TH 9 + 799.598 =
L 39 + 799.598 (21.946 LT)
EL 15.045

RAMP SECTION M

RAMP SECTION N

RAMP SECTION O

RAMP QUANTITIES BREAKDOWN SEE QTP-1 TO QTP-10

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

S-195TH RAMP

FOR "AS CONSTRUCTED PLANS" ONLY

DATUM

N.G.V.D. OF 1929

+8 % +4 % 0 % -4 % -8 %

20 18 16 14 12

9+440 9+460 9+480 9+500 9+520 9+540 9+560 9+580 9+600 9+620 9+640 9+660 9+680 9+700 9+720 9+740 9+760 9+780 9+800

					REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DESIGNED BY A. LASZLO	04/29/96						
ENTERED BY A. NGUYEN	04/29/96				JOB NUMBER 96W035		
CHECKED BY N. ABEDIN	04/29/96						
PROJ. ENGR. R. KINOSHITA	04/29/96				CONTRACT NO. 5054		
REGIONAL ADM. BOB AYE	04/29/96						
	DATE	DATE	REVISION	BY			

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

RAMP PROFILES

RP-9

SHEET 118 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		REMOVING DRAINAGE STRUCTURE	DITCH EXCAVATION INCL. HAUL	GRATE INLET TYPE 1 OR 2	HAND PLACED RIPRAP		QUARRY SPALLS	UNDERDRAIN PIPE 150 MM DIAM.	CATCH BASIN TYPE 1	CATCH BASIN TYPE 2 1200 MM DIAM.		CATCH BASIN TYPE 2 1350 MM DIAM.	CATCH BASIN TYPE 2 1500 MM DIAM.	CATCH BASIN TYPE 2 1800 MM DIAM. WITH FLOW RESTRICTOR	CATCH BASIN TYPE 2 1800 MM DIAM. (MODIFIED)		SEE GENERAL NOTES
			EACH	M3	EACH	M3		M3	M	EACH	EACH		EACH	EACH	EACH	EACH		
D1-1	L 38+332 RT				1													1,2,7,8,17
D1-2	L 38+332		1															
D1-3	L 38+423 RT				1													1,2,7,8,17
D1-4	L 38+423		1															
D1-5	W-N 8+362 RT TO W-N 8+363 RT					0.8												12,17
D1-6	W-N 8+351 RT TO W-N 8+363 RT																	10
D1-7	W-N 8+363 RT TO W-N 8+417 RT										1							7,10
D1-8	W-N 8+417 RT TO LT				1													7,10
D1-9	W-N 8+417 LT TO W-N 8+482 LT				1													7,10
D1-10	W-N 8+318 RT TO W-N 8+321 RT																	10,16
D1-11	W-N 8+315 RT TO W-N 8+318 RT					0.2				1								17
D2-1	L 38+515		1															
D2-2	L 38+515 RT				1													1,2,7,8,17
D2-3	L 38+591		1															10
D2-4	L 38+591 RT				1													1,2,7,8,17
D2-5	L 38+672				1													3,7,8,10
D2-6	L 38+672 RT				1													7,8,10
D2-7	L 38+672 LT TO L 38+727 RT				1													7,8,17
D2-8	L 38+727 RT				1													7,8,17
D2-9	L 38+781.5 RT				1													7,8,10
D2-10	L 38+781.5 RT				1													3,7,8,10
D2-11	L 38+781.5 RT TO L 38+847 LT				1													7,8,17
D2-12	L 38+847 LT				1													7,8,17
D2-13	W-N 8+482 LT TO NBCD 8+570 LT										1							10
D2-14	NBCD 8+570 LT TO NBCD 8+649 LT				1													7,10
D2-15	NBCD 8+649 LT TO NBCD 8+700 LT				1													7,17
D2-16	NBCD 8+700 LT				1													7,10
D2-17	NBCD 8+700 LT TO NBCD 8+745.5 LT				1													7,17
D2-18	NBCD 8+745.5 LT				1				11									7,17
D2-19	NBCD 8+745.5 LT TO NBCD 8+791.5 LT				1													7,17
D2-20	NBCD 8+791.5 LT				1													7,17
D2-21	NBCD 8+814 LT TO NBCD 8+830 LT				1													7,17
D2-22	NBCD 8+830 LT										1							3
D2-23	NBCD 8+830 LT TO NBCD 8+837 LT				1													7,17
D2-24	NBCD 8+837 LT				1													7,17
	SHEET TOTAL		4		24	1			11	1	3							

GENERAL NOTES:

1. CONNECT TO EXISTING PIPE.
2. SEE "CONCRETE PIPE COLLAR DETAIL" SHEET DD-3.
3. CONNECT EXISTING STORM SEWER PIPE TO NEW CATCH BASIN OR MANHOLE.
4. SEE UNDERDRAIN DETAIL ON BARRIER DETAIL SHEET BD-11.
5. PLUG ABANDONED PIPE.
6. SEE ROADWAY SECTION "FILL TOE DETAIL", SHEET RS-8, FOR ADDITIONAL QUANTITY.
7. USE GRATE B PER STD. PLAN B-4b, WITH BOLT DOWN CAPACITY PER DETAIL SHEET D-11.
8. SEE ILLUMINATION AND POWER DISTRIBUTION PLAN SHEETS FOR INFORMATION REGARDING UTILITIES IN THIS AREA.
9. SEE BIO-FILTRATION DETAILS, SHEET DD-2.
10. ACCEPTABLE ALTERNATES FOR STORM SEWER PIPE ARE:

GALVANIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-TR. 2 WITH WELDED OR GASKETED LONGITUDINAL SEAMS, 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.

ALUMINIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-PLAIN WITH GASKETED OR WELDED AND REMETALIZED LONGITUDINAL SEAMS., 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.
SEE TABLE 8-9.2 OF HYDRAULICS MANUAL.

ALUMINUM STORM SEWER PIPE:
-TR. 5, 76.mm THICK.
-PLAIN WITH GASKETED LONGITUDINAL SEAMS 76.2 mm THICK, DIAMETER 3 INCHES LARGER THAN SPECIFIED.

(CONTINUED ON NEXT SHEET)

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96			
ENTERED BY	A. CHAN	10/96	1/8/97	Revise D1-7 to catch basin;	FT
CHECKED BY	R. THURMOND	10/96		Delete note 16 from D1-6;	
PROJ. ENGR.	R. KINOSHITA	10/96		Revise item to removing	
REGION ADM.	J. OKAMOTO	10/96		drainage structure.	
		DATE	DATE	REVISION	BY

REGION NO. 10 | STATE WASH | FED. AID. PROJ. NO.

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-1

SHEET 119 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		CATCH BASIN TYPE 2 1800 MM DIAM. WITH FLOW SPLITTER	TESTING STORM SEWER PIPE	PLAIN CONC. STORM SEWER PIPE 300 MM DIAM.	PLAIN CONC. STORM SEWER PIPE 450 MM DIAM.		CL II REINF. CONC. STORM SEWER PIPE 1800 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 300 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 450 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 600 MM DIAM.		CL.IV REINF. CONC. STORM SEWER PIPE 750 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 900 MM DIAM.	TR. 5 ST. STORM SEWER PIPE 1.6 MM TH. 300 MM DIAM.	TR. 5 ST. STORM SEWER PIPE 1.6 MM TH. 750MM DIAM		SEE GENERAL NOTES
			EACH	M	M	M		M	M	M	M		M	M	M	M		
D1-1	L 38+332 RT			3											3			1,2,7,8,17
D1-2	L 38+332																	
D1-3	L 38+423 RT			3											3			1,2,7,8,17
D1-4	L 38+423																	
D1-5	W-N 8+362 RT TO W-N 8+363 RT			15							15							12,17
D1-6	W-N 8+351 RT TO W-N 8+363 RT		1	13					13									10
D1-7	W-N 8+363 RT TO W-N 8+417 RT			54						54								7,10
D1-8	W-N 8+417 RT TO LT			14						14								7,10
D1-9	W-N 8+417 LT TO W-N 8+482 LT			65						65								7,10
D1-10	W-N 8+318 RT TO W-N 8+321 RT			3					3									10,16
D1-11	W-N 8+315 RT TO W-N 8+318 RT			20					20									17
D2-1	L 38+515																	
D2-2	L 38+515 RT														2			1,2,7,8,17
D2-3	L 38+591																	10
D2-4	L 38+591 RT														1			1,2,7,8,17
D2-5	L 38+672																	3,7,8,10
D2-6	L 38+672 RT								1									7,8,10
D2-7	L 38+672 LT TO L 38+727 RT			55					55									7,8,17
D2-8	L 38+727 RT								1									7,8,17
D2-9	L 38+781.5 RT								1									7,8,10
D2-10	L 38+781.5 RT																	3,7,8,10
D2-11	L 38+781.5 RT TO L 38+847 LT			65					65									7,8,17
D2-12	L 38+847 LT								1									7,8,17
D2-13	W-N 8+482 LT TO NBCD 8+570 LT			90						90								10
D2-14	NBCD 8+570 LT TO NBCD 8+649 LT			78						78								7,10
D2-15	NBCD 8+649 LT TO NBCD 8+700 LT			51						51								7,17
D2-16	NBCD 8+700 LT								1									7,10
D2-17	NBCD 8+700 LT TO NBCD 8+745.5 LT			46					46									7,17
D2-18	NBCD 8+745.5 LT								1									7,17
D2-19	NBCD 8+745.5 LT TO NBCD 8+791.5 LT			46					46									7,17
D2-20	NBCD 8+791.5 LT								1									7,17
D2-21	NBCD 8+814 LT TO NBCD 8+830 LT			16					16									7,17
D2-22	NBCD 8+830 LT																	3
D2-23	NBCD 8+830 LT TO NBCD 8+837 LT			7					7									7,17
D2-24	NBCD 8+837 LT								1									7,17
	SHEET TOTAL		1	644					279	352	15				9			

GENERAL NOTES:

10. (CONTINUED FROM PREVIOUS SHEET)

SPIRAL RIB STORM SEWER PIPE:
-PLAIN ALUMINUM OR PLAIN NARROW PITCH ALUMINUM, 76.2 mm THICK.
-PLAIN ALUMINIZED STEEL OR PLAIN NARROW PITCH ALUMINIZED STEEL, 76.2 mm THICK.
-TR. 2 GALVANIZED STEEL OR TR. 2 NARROW PITCH GALVANIZED STEEL, 0.064 IN. THICK. SEE TABLE 8-9.9 OF HYDRAULICS MANUAL.

THERMOPLASTIC STORM SEWER PIPE CONFORMING TO SECTION 9-05.19 OF THE STANDARD SPECIFICATIONS. SIZE NOT TO EXCEED 900 mm, COVER NOT TO EXCEED 4.5m.

11. USE CONCRETE PIPE ANCHORS. SEE SEE SPECIAL PROVISIONS. SEE STANDARD PLAN B-12.

12. SEE "RIPRAP OUTFALL PROTECTION DETAIL", SHEET DD-1.

13. BLOCKOUT REQUIRED IN WALL. SEE RETAINING WALL PLANS.

14. BEVELED END SECTION REQUIRED. SEE STANDARD PLAN B-7a.

15. SEE BRIDGE STRUCTURAL PLANS & DETAILS.

16. SEE DETENTION STRUCTURAL PLANS & DRAINAGE DETAILS.

17. USE SPECIFIED PIPE MATERIAL. ALTERNATIVES NOT ACCEPTABLE.

18. SEE STRUCTURAL EARTH WALL PLANS FOR COORDINATION AND TIMING.

19. USED VANED GRATE PER STD. PLAN B-2b.

20. SEE ECOLOGY DITCH DETAIL SHEET DD-2.

21. ALL ELEVATIONS TO FINISH GRADE SHOWN ON PROFILE SHEETS ARE PRIOR TO OVERLAY.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96				
ENTERED BY	A. CHAN	10/96				
CHECKED BY	R. THURMOND	10/96	1/8/97	Delete note 16 from D1-5;	FT	
PROJ. ENGR.	R. KINOSHITA	10/96		Revise D2-21 & D2-23 from plain		
REGION ADM.	J. OKAMOTO	10/96		pipe to Cl IV reinf. pipe		
		DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-2

SHEET 120 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION	FURNISH AND INSTALL STEEL CASING 900 MM DIAM.	FURNISH AND INSTALL STEEL CASING 750 MM DIAM.	DUCTILE IRON STORM SEWER PIPE CLASS 50 450 MM DIAM	GRAVEL BACKFILL FOR WALL	TOPSOIL TYPE B		STRUCTURE EXCAVATION CLASS B INCL. HAUL	SHORING OR EXTRA EXCAVATION CLASS B	GRAVEL BACKFILL FOR FOUNDATION CLASS B	GRAVEL BACKFILL FOR DRAIN		CONC. CLASS 20	ADJUST MANHOLE	MANHOLE 1200 MM DIAM. TYPE 3	MANHOLE 1500 MM DIAM. TYPE 3		SEE GENERAL NOTES
		M	M	M	M3	M3		M3	M2	M3	M3		M3	EACH	EACH	EACH		
D1-1	L 38+332 RT							7	3	1								1,2,7,8,17
D1-2	L 38+332																	
D1-3	L 38+423 RT							7	3	1								1,2,7,8,17
D1-4	L 38+423																	
D1-5	W-N 8+362 RT TO W-N 8+363 RT							38	28									12,17
D1-6	W-N 8+351 RT TO W-N 8+363 RT							53	42	1								10
D1-7	W-N 8+363 RT TO W-N 8+417 RT							218	190	1								7,10
D1-8	W-N 8+417 RT TO LT							50	42	1								7,10
D1-9	W-N 8+417 LT TO W-N 8+482 LT							227	199	1								7,10
D1-10	W-N 8+318 RT TO W-N 8+321 RT							5	4									10,16
D1-11	W-N 8+315 RT TO W-N 8+318 RT							29	5	1								17
D2-1	L 38+515																	
D2-2	L 38+515 RT							6	3	1								1,2,7,8,17
D2-3	L 38+591																	10
D2-4	L 38+591 RT							6	3	1								1,2,7,8,17
D2-5	L 38+672							6	4	1								3,7,8,10
D2-6	L 38+672 RT							6	4	1								7,8,10
D2-7	L 38+672 LT TO L 38+727 RT							67	3	1								7,8,17
D2-8	L 38+727 RT							4	3	1								7,8,17
D2-9	L 38+781.5 RT							7	4	1								7,8,10
D2-10	L 38+781.5 RT							6	4	1								3,7,8,10
D2-11	L 38+781.5 RT TO L 38+847 LT							91	85	1								7,8,17
D2-12	L 38+847 LT							4	2	1								7,8,17
D2-13	W-N 8+482 LT TO NBCD 8+570 LT							282	246	1								10
D2-14	NBCD 8+570 LT TO NBCD 8+649 LT							195	172	1								7,10
D2-15	NBCD 8+649 LT TO NBCD 8+700 LT							87	76	1								7,17
D2-16	NBCD 8+700 LT							5	3	1								7,10
D2-17	NBCD 8+700 LT TO NBCD 8+745.5 LT							45		1								7,17
D2-18	NBCD 8+745.5 LT							5	3	1	3							7,17
D2-19	NBCD 8+745.5 LT TO NBCD 8+791.5 LT							26		1								7,17
D2-20	NBCD 8+791.5 LT							4	3	1								7,17
D2-21	NBCD 8+814 LT TO NBCD 8+830 LT							14		1								7,17
D2-22	NBCD 8+830 LT							17	8	1								3
D2-23	NBCD 8+830 LT TO NBCD 8+837 LT							11	3	1								7,17
D2-24	NBCD 8+837 LT							7	4	1								7,17
	SHEET TOTAL							1535	1149	29	3							

FOR "AS CONSTRUCTED PLANS" ONLY

GENERAL NOTES:

1. CONNECT TO EXISTING PIPE.
2. SEE "CONCRETE PIPE COLLAR DETAIL" SHEET DD-3.
3. CONNECT EXISTING STORM SEWER PIPE TO NEW CATCH BASIN OR MANHOLE.
4. SEE UNDERDRAIN DETAIL ON BARRIER DETAIL SHEET BD-11.
5. PLUG ABANDONED PIPE.
6. SEE ROADWAY SECTION "FILL TOE DETAIL", SHEET RS-8, FOR ADDITIONAL QUANTITY.
7. USE GRATE B PER STD. PLAN B-4b, WITH BOLT DOWN CAPACITY PER DETAIL SHEET D-11.
8. SEE ILLUMINATION AND POWER DISTRIBUTION PLAN SHEETS FOR INFORMATION REGARDING UTILITIES IN THIS AREA.
9. SEE BIO-FILTRATION DETAILS, SHEET DD-2.
10. ACCEPTABLE ALTERNATES FOR STORM SEWER PIPE ARE:

GALVANIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-TR. 2 WITH WELDED OR GASKETED LONGITUDINAL SEAMS, 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.

ALUMINIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-PLAIN WITH GASKETED OR WELDED AND REMETALIZED LONGITUDINAL SEAMS., 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.
SEE TABLE 8-9.2 OF HYDRAULICS MANUAL.

ALUMINUM STORM SEWER PIPE:
-TR. 5, 76.mm THICK.
-PLAIN WITH GASKETED LONGITUDINAL SEAMS 76.2 mm THICK, DIAMETER 3 INCHES LARGER THAN SPECIFIED.

(CONTINUED ON NEXT SHEET)

DESIGNED BY	F. TIMM	10/96				
ENTERED BY	A. CHAN	10/96				
CHECKED BY	R. THURMOND	10/96				
PROJ. ENGR.	R. KINOSHITA	10/96	1/8/97	Add item;	FT	
REGION ADM.	J. OKAMOTO	10/96		Delete note 16 from D1-5		
		DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5059

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-3

SHEET 121 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		MANHOLE ADDITIONAL HEIGHT 1200 MM DIAM. TYPE 3	MANHOLE ADDITIONAL HEIGHT 1500 MM DIAM. TYPE 3	ADJUST CATCH BASIN	BARREL ADJUST DRAINAGE STRUCTURE		LOCKING SOLID METAL COVER AND FRAME FOR CATCH BASIN	CONNECTION TO EXISTING DRAINAGE STRUCTURE	CONCRETE PIPE COLLAR	CONSTRUCTION GEOTEXTILE FOR UNDERGROUND DRAINAGE		ECOLOGY DITCH					SEE GENERAL NOTES
			M	M	EACH	EACH		EACH	EACH	EACH	M2		M					
D1-1	L 38+332 RT				1					1								1,2,7,8,17
D1-2	L 38+332																	
D1-3	L 38+423 RT				1					1								1,2,7,8,17
D1-4	L 38+423																	
D1-5	W-N 8+362 RT TO W-N 8+363 RT																	12,17
D1-6	W-N 8+351 RT TO W-N 8+363 RT		0.5		1													10
D1-7	W-N 8+363 RT TO W-N 8+417 RT				1													7,10
D1-8	W-N 8+417 RT TO LT																	7,10
D1-9	W-N 8+417 LT TO W-N 8+482 LT																	7,10
D1-10	W-N 8+318 RT TO W-N 8+321 RT																	10,16
D1-11	W-N 8+315 RT TO W-N 8+318 RT																	17
D2-1	L 38+515																	
D2-2	L 38+515 RT				1					1								1,2,7,8,17
D2-3	L 38+591																	10
D2-4	L 38+591 RT				1					1								1,2,7,8,17
D2-5	L 38+672				1													3,7,8,10
D2-6	L 38+672 RT				1													7,8,10
D2-7	L 38+672 LT TO L 38+727 RT				1													7,8,17
D2-8	L 38+727 RT				1													7,8,17
D2-9	L 38+781.5 RT				1													7,8,10
D2-10	L 38+781.5 RT				1													3,7,8,10
D2-11	L 38+781.5 RT TO L 38+847 LT				1													7,8,17
D2-12	L 38+847 LT				1													7,8,17
D2-13	W-N 8+482 LT TO NBCD 8+570 LT				1													10
D2-14	NBCD 8+570 LT TO NBCD 8+649 LT				1													7,10
D2-15	NBCD 8+649 LT TO NBCD 8+700 LT				1													7,17
D2-16	NBCD 8+700 LT				1													7,10
D2-17	NBCD 8+700 LT TO NBCD 8+745.5 LT				1													7,17
D2-18	NBCD 8+745.5 LT				1						22							7,17
D2-19	NBCD 8+745.5 LT TO NBCD 8+791.5 LT				1													7,17
D2-20	NBCD 8+791.5 LT				1													7,17
D2-21	NBCD 8+814 LT TO NBCD 8+830 LT				1													7,17
D2-22	NBCD 8+830 LT				1													3
D2-23	NBCD 8+830 LT TO NBCD 8+837 LT				1													7,17
D2-24	NBCD 8+837 LT				1													7,17
	SHEET TOTAL		0.5		26					4	22							

GENERAL NOTES:

10. (CONTINUED FROM PREVIOUS SHEET)

SPIRAL RIB STORM SEWER PIPE:
-PLAIN ALUMINUM OR PLAIN NARROW PITCH ALUMINUM, 76.2 mm THICK.
-PLAIN ALUMINIZED STEEL OR PLAIN NARROW PITCH ALUMINIZED STEEL, 76.2 mm THICK.
-TR. 2 GALVANIZED STEEL OR TR. 2 NARROW PITCH GALVANIZED STEEL, 0.064 IN. THICK.
SEE TABLE 8-9.9 OF HYDRAULICS MANUAL.

THERMOPLASTIC STORM SEWER PIPE CONFORMING TO SECTION 9-05.19 OF THE STANDARD SPECIFICATIONS. SIZE NOT TO EXCEED 900 mm, COVER NOT TO EXCEED 4.5m.

11. USE CONCRETE PIPE ANCHORS. SEE SEE SPECIAL PROVISIONS. SEE STANDARD PLAN B-12.

12. SEE "RIPRAP OUTFALL PROTECTION DETAIL", SHEET DD-1.

13. BLOCKOUT REQUIRED IN WALL. SEE RETAINING WALL PLANS.

14. BEVELED END SECTION REQUIRED. SEE STANDARD PLAN B-7a.

15. SEE BRIDGE STRUCTURAL PLANS & DETAILS.

16. SEE DETENTION STRUCTURAL PLANS & DRAINAGE DETAILS.

17. USE SPECIFIED PIPE MATERIAL. ALTERNATIVES NOT ACCEPTABLE.

18. SEE STRUCTURAL EARTH WALL PLANS FOR COORDINATION AND TIMING.

19. USED VANED GRATE PER STD. PLAN B-2b.

20. SEE ECOLOGY DITCH DETAIL SHEET DD-2.

21. ALL ELEVATIONS TO FINISH GRADE SHOWN ON PROFILE SHEETS ARE PRIOR TO OVERLAY.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96			
ENTERED BY	A. CHAN	10/96			
CHECKED BY	R. THURMOND	10/96			
PROJ. ENGR.	R. KINOSHITA	10/96	1/8/97	Add quantity to D1-6;	FT
REGION ADM.	J. OKAMOTO	10/96		Delete note 16 from D1-5	
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96W035

CONTRACT NO. 5059

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-4

SHEET 122 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		REMOVING DRAINAGE STRUCTURE EACH	DITCH EXCAVATION INCL. HAUL M3	GRATE INLET TYPE 1 OR 2 EACH	HAND PLACED RIPRAP M3		QUARRY SPALLS M3	UNDERDRAIN PIPE 150 MM DIAM. M	CATCH BASIN TYPE 1 EACH	CATCH BASIN TYPE 2 1200 MM DIAM. EACH		CATCH BASIN TYPE 2 1350 MM DIAM. EACH	CATCH BASIN TYPE 2 1500 MM DIAM. EACH	CATCH BASIN TYPE 2 1800 MM DIAM. WITH FLOW RESTRICTOR EACH	CATCH BASIN TYPE 2 1800 MM DIAM. (MODIFIED) EACH		SEE GENERAL NOTES
D2-25	L 38+781.5		1															
D2-26	L 38+672		1															
D2-27	NBCD 8+833 RT TO NBCD 8+840 RT																	1,2,17,18
D3-1	L 38+911 LT																	
D3-2	L 38+911 LT				1													3,7,8
D3-3	L 38+974 RT TO L 39+033 RT				1													7,8,17
D3-4	L 38+974 LT				1													7,8,17
D3-5	L 39+033 RT				1													7,8,10
D3-6	L 39+033 LT				1													3,7,8
D3-7	L 39+033 LT TO L 39+077 RT				1													7,8,17
D3-8	L 39+077 LT				1													7,8,17
D3-9	L 39+124 LT TO L 39+136 LT				1	0.8												7,8,12,17
D3-10	L 39+124 RT				1													7,8,17
D3-11	L 39+149 RT TO L 39161 LT				1	0.8												7,8,12,17
D3-12	L 39+161 RT				1													7,8,10
D3-13	NBCD 8+837 LT TO NBCD 8+852 LT				1													7,17
D3-14	NBCD 8+852 LT TO NBCD 8+867 LT				1													7,17
D3-15	NBCD 8+867 LT				1													7,17
D3-16	NBCD 8+867 LT TO NBCD 8+891 LT				1													7,10
D3-17	NBCD 8+891 LT TO NBCD 8+913 LT				1													7,10
D3-18	NBCD 8+913 LT				1													7,10
D3-19	NBCD 8+913 LT TO NBCD 8+959 LT				1													7,10
D3-20	NBCD 8+959 LT				1													7,10
D3-21	NBCD 8+959 LT TO NBCD 9+020 LT				1													7,17
D3-22	NBCD 9+020 LT				1													7,17
D3-23	NBCD 9+020 LT TO NBCD 9+081 LT				1													7,17
D3-24	NBCD 9+081 LT				1													7,17
D3-25	NBCD 9+081 LT TO NBCD 9+118.5 LT				1													7,17
D3-26	NBCD 9+118.5 LT				1													7,17
D3-27	NBCD 9+118.5 RT				1													7,17
D3-28	NBCD 9+118.5 LT TO NBCD 9+136 RT				1													7,17
D3-29	NBCD 9+193 RT TO NBCD 9+202 RT					0.8									1			12,17,19
D3-30	L 39+059 LT TO L 39+089 LT					0.8				1								12,17
	SHEET TOTAL		2		27	3.2				1					1			

FOR "AS CONSTRUCTED PLANS" ONLY

GENERAL NOTES:

1. CONNECT TO EXISTING PIPE.
2. SEE "CONCRETE PIPE COLLAR DETAIL" SHEET DD-3.
3. CONNECT EXISTING STORM SEWER PIPE TO NEW CATCH BASIN OR MANHOLE.
4. SEE UNDERDRAIN DETAIL ON BARRIER DETAIL SHEET BD-11.
5. PLUG ABANDONED PIPE.
6. SEE ROADWAY SECTION "FILL TOE DETAIL", SHEET RS-8, FOR ADDITIONAL QUANTITY.
7. USE GRATE B PER STD. PLAN B-4b, WITH BOLT DOWN CAPACITY PER DETAIL SHEET D-11.
8. SEE ILLUMINATION AND POWER DISTRIBUTION PLAN SHEETS FOR INFORMATION REGARDING UTILITIES IN THIS AREA.
9. SEE BIO-FILTRATION DETAILS, SHEET DD-2.
10. ACCEPTABLE ALTERNATES FOR STORM SEWER PIPE ARE:

GALVANIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-TR. 2 WITH WELDED OR GASKETED LONGITUDINAL SEAMS, 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.

ALUMINIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-PLAIN WITH GASKETED OR WELDED AND REMETALIZED LONGITUDINAL SEAMS., 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.
SEE TABLE 8-9.2 OF HYDRAULICS MANUAL.

ALUMINUM STORM SEWER PIPE:
-TR. 5, 76.mm THICK.
-PLAIN WITH GASKETED LONGITUDINAL SEAMS 76.2 mm THICK, DIAMETER 3 INCHES LARGER THAN SPECIFIED.

(CONTINUED ON NEXT SHEET)

		DATE				REGION NO.	STATE	FED. AID. PROJ. NO.
DESIGNED BY	F. TIMM	10/96				10	WASH	
ENTERED BY	A. CHAN	10/96	1/8/97	Revise item to removing	FT	JOB NUMBER		
CHECKED BY	R. THURMOND	10/96		drainage structure;		96W035		
PROJ. ENGR.	R. KINOSHITA	10/96		Revise note 10 to 17 for		CONTRACT NO.		
REGION ADM.	J. OKAMOTO	10/96		D3-9 and D3-10		5054		
		DATE	DATE	REVISION	BY			

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-5

SHEET 123 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		CATCH BASIN TYPE 2 1800 MM DIAM. WITH FLOW SPLITTER	TESTING STORM SEWER PIPE	PLAIN CONC. STORM SEWER PIPE 300 MM DIAM.	PLAIN CONC. STORM SEWER PIPE 450 MM DIAM.		CL II REINF. CONC. STORM SEWER PIPE 1800 MM DIAM.	CL IV REINF. CONC. STORM SEWER PIPE 300 MM DIAM.	CL IV REINF. CONC. STORM SEWER PIPE 450 MM DIAM.	CL IV REINF. CONC. STORM SEWER PIPE 600 MM DIAM.		CL IV REINF. CONC. STORM SEWER PIPE 750 MM DIAM.	CL IV REINF. CONC. STORM SEWER PIPE 900 MM DIAM.	TR. 5 ST. STORM SEWER PIPE 1.6 MM TH. 300 MM DIAM.	TR. 5 ST. STORM SEWER PIPE 1.6 MM TH. 750MM DIAM		SEE GENERAL NOTES
			EACH	M	M	M		M	M	M	M		M	M	M	M		
D2-25	L 38+781.5																	
D2-26	L 38+672																	
D2-27	NBCD 8+833 RT TO NBCD 8+840 RT												15					1,2,17,18
D3-1	L 38+911 LT																	
D3-2	L 38+911 LT																	3,7,8
D3-3	L 38+974 RT TO L 39+033 RT			57					57									7,8,17
D3-4	L 38+974 LT								1									7,8,17
D3-5	L 39+033 RT								1									7,8,10
D3-6	L 39+033 LT																	3,7,8
D3-7	L 39+033 LT TO L 39+077 RT			44					44									7,8,17
D3-8	L 39+077 LT								1									7,8,17
D3-9	L 39+124 LT TO L 39+136 LT								1									7,8,12,17
D3-10	L 39+124 RT								1									7,8,17
D3-11	L 39+149 RT TO L 39161 LT									12								7,8,12,17
D3-12	L 39+161 RT					1												7,8,10
D3-13	NBCD 8+837 LT TO NBCD 8+852 LT			15					15									7,17
D3-14	NBCD 8+852 LT TO NBCD 8+867 LT			23					23									7,17
D3-15	NBCD 8+867 LT								1									7,17
D3-16	NBCD 8+867 LT TO NBCD 8+891 LT			23					23									7,10
D3-17	NBCD 8+891 LT TO NBCD 8+913 LT			46						46								7,10
D3-18	NBCD 8+913 LT								1									7,10
D3-19	NBCD 8+913 LT TO NBCD 8+959 LT			13						13								7,10
D3-20	NBCD 8+959 LT								1									7,10
D3-21	NBCD 8+959 LT TO NBCD 9+020 LT			46						46								7,17
D3-22	NBCD 9+020 LT								1									7,17
D3-23	NBCD 9+020 LT TO NBCD 9+081 LT			61					61									7,17
D3-24	NBCD 9+081 LT								1									7,17
D3-25	NBCD 9+081 LT TO NBCD 9+118.5 LT			37					37									7,17
D3-26	NBCD 9+118.5 LT								1									7,17
D3-27	NBCD 9+118.5 RT			14					14									7,17
D3-28	NBCD 9+118.5 LT TO NBCD 9+136 RT			41					41									7,17
D3-29	NBCD 9+193 RT TO NBCD 9+202 RT													12				12,17,19
D3-30	L 39+059 LT TO L 39+089 LT								42									12,17
	SHEET TOTAL			420		1			368	117			15	12				

GENERAL NOTES:

10. (CONTINUED FROM PREVIOUS SHEET)

SPIRAL RIB STORM SEWER PIPE:
-PLAIN ALUMINUM OR PLAIN NARROW PITCH ALUMINUM, 76.2 mm THICK.
-PLAIN ALUMINIZED STEEL OR PLAIN NARROW PITCH ALUMINIZED STEEL, 76.2 mm THICK.
-TR. 2 GALVANIZED STEEL OR TR. 2 NARROW PITCH GALVANIZED STEEL, 0.064 IN. THICK.
SEE TABLE 8-9.9 OF HYDRAULICS MANUAL.

THERMOPLASTIC STORM SEWER PIPE CONFORMING TO SECTION 9-05.19 OF THE STANDARD SPECIFICATIONS. SIZE NOT TO EXCEED 900 mm, COVER NOT TO EXCEED 4.5m.

11. USE CONCRETE PIPE ANCHORS. SEE SEE SPECIAL PROVISIONS. SEE STANDARD PLAN B-12.

12. SEE "RIPRAP OUTFALL PROTECTION DETAIL", SHEET DD-1.

13. BLOCKOUT REQUIRED IN WALL. SEE RETAINING WALL PLANS.

14. BEVELED END SECTION REQUIRED. SEE STANDARD PLAN B-7a.

15. SEE BRIDGE STRUCTURAL PLANS & DETAILS.

16. SEE DETENTION STRUCTURAL PLANS & DRAINAGE DETAILS.

17. USE SPECIFIED PIPE MATERIAL. ALTERNATIVES NOT ACCEPTABLE.

18. SEE STRUCTURAL EARTH WALL PLANS FOR COORDINATION AND TIMING.

19. USED VANED GRATE PER STD. PLAN B-2b.

20. SEE ECOLOGY DITCH DETAIL SHEET DD-2.

21. ALL ELEVATIONS TO FINISH GRADE SHOWN ON PROFILE SHEETS ARE PRIOR TO OVERLAY.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96			
ENTERED BY	A. CHAN	10/96	1/8/97	Revise D3-10 from plain pipe	FT
CHECKED BY	R. THURMOND	10/96		to Cl IV reinf. pipe;	
PROJ. ENGR.	R. KINOSHITA	10/96		Revise note 10 to 17 for	
REGION ADM.	J. OKAMOTO	10/96		D3-9 and D3-10	
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-6

SHEET 124 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION	FURNISH AND INSTALL STEEL CASING 900 MM DIAM. M	FURNISH AND INSTALL STEEL CASING 750 MM DIAM. M	DUCTILE IRON STORM SEWER PIPE CLASS 50 450 MM DIAM M	GRAVEL BACKFILL FOR WALL M3	TOPSOIL TYPE B M3		STRUCTURE EXCAVATION CLASS B INCL. HAUL M3	SHORING OR EXTRA EXCAVATION CLASS B M2	GRAVEL BACKFILL FOR FOUNDATION CLASS B M3	GRAVEL BACKFILL FOR DRAIN M3		CONC. CLASS 20 M3	ADJUST MANHOLE EACH	MANHOLE 1200 MM DIAM. TYPE 3 EACH	MANHOLE 1500 MM DIAM. TYPE 3 EACH		SEE GENERAL NOTES
D2-25	L 38+781.5																	
D2-26	L 38+672																	
D2-27	NBCD 8+833 RT TO NBCD 8+840 RT							72	45				0.2					1,2,17,18
D3-1	L 38+911 LT																	
D3-2	L 38+911 LT							6	4	1								3,7,8
D3-3	L 38+974 RT TO L 39+033 RT							59		1								7,8,17
D3-4	L 38+974 LT							4	3	1								7,8,17
D3-5	L 39+033 RT							5	4	1								7,8,10
D3-6	L 39+033 LT							6	4	1								3,7,8
D3-7	L 39+033 LT TO L 39+077 RT							60	55	1								7,8,17
D3-8	L 39+077 LT							5	3	1								7,8,17
D3-9	L 39+124 LT TO L 39+136 LT							26	18	1								7,8,12,17
D3-10	L 39+124 RT							5	3	1								7,8,17
D3-11	L 39+149 RT TO L 39161 LT							25	21	1								7,8,12,17
D3-12	L 39+161 RT							6	4	1								7,8,10
D3-13	NBCD 8+837 LT TO NBCD 8+852 LT							18	3	1								7,17
D3-14	NBCD 8+852 LT TO NBCD 8+867 LT							29	3	1								7,17
D3-15	NBCD 8+867 LT							7	4	1								7,17
D3-16	NBCD 8+867 LT TO NBCD 8+891 LT							34	31	1								7,10
D3-17	NBCD 8+891 LT TO NBCD 8+913 LT							95	83	1								7,10
D3-18	NBCD 8+913 LT							7	5	1								7,10
D3-19	NBCD 8+913 LT TO NBCD 8+959 LT							34	28	1								7,10
D3-20	NBCD 8+959 LT							8	5	1								7,10
D3-21	NBCD 8+959 LT TO NBCD 9+020 LT							65	3	1								7,17
D3-22	NBCD 9+020 LT							5	3	1								7,17
D3-23	NBCD 9+020 LT TO NBCD 9+081 LT							64	3	1								7,17
D3-24	NBCD 9+081 LT							4	3	1								7,17
D3-25	NBCD 9+081 LT TO NBCD 9+118.5 LT							40	3	1								7,17
D3-26	NBCD 9+118.5 LT							3		1								7,17
D3-27	NBCD 9+118.5 RT							17	3	1								7,17
D3-28	NBCD 9+118.5 LT TO NBCD 9+136 RT							37		1								7,17
D3-29	NBCD 9+193 RT TO NBCD 9+202 RT							48	20	1								12,17,19
D3-30	L 39+059 LT TO L 39+089 LT							52	3	1								12,17
	SHEET TOTAL							846	367	29			0.2					

GENERAL NOTES:

1. CONNECT TO EXISTING PIPE.
2. SEE "CONCRETE PIPE COLLAR DETAIL" SHEET DD-3.
3. CONNECT EXISTING STORM SEWER PIPE TO NEW CATCH BASIN OR MANHOLE.
4. SEE UNDERDRAIN DETAIL ON BARRIER DETAIL SHEET BD-11.
5. PLUG ABANDONED PIPE.
6. SEE ROADWAY SECTION "FILL TOE DETAIL", SHEET RS-8, FOR ADDITIONAL QUANTITY.
7. USE GRATE B PER STD. PLAN B-4b, WITH BOLT DOWN CAPACITY PER DETAIL SHEET D-11.
8. SEE ILLUMINATION AND POWER DISTRIBUTION PLAN SHEETS FOR INFORMATION REGARDING UTILITIES IN THIS AREA.
9. SEE BIO-FILTRATION DETAILS, SHEET DD-2.
10. ACCEPTABLE ALTERNATES FOR STORM SEWER PIPE ARE:

GALVANIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-TR. 2 WITH WELDED OR GASKETED LONGITUDINAL SEAMS, 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.

ALUMINIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-PLAIN WITH GASKETED OR WELDED AND REMETALIZED LONGITUDINAL SEAMS., 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.
SEE TABLE 8-9.2 OF HYDRAULICS MANUAL.

ALUMINUM STORM SEWER PIPE:
-TR. 5, 76.mm THICK.
-PLAIN WITH GASKETED LONGITUDINAL SEAMS 76.2 mm THICK, DIAMETER 3 INCHES LARGER THAN SPECIFIED.

(CONTINUED ON NEXT SHEET)

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96				
ENTERED BY	A. CHAN	10/96				
CHECKED BY	R. THURMOND	10/96	1/8/97	Add item;	FT	
PROJ. ENGR.	R. KINOSHITA	10/96		Revise note 10 to 17 for		
REGION ADM.	J. OKAMOTO	10/96		D3-9 and D3-10		
		DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-7

SHEET 125 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		MANHOLE ADDITIONAL HEIGHT 1200 MM DIAM. TYPE 3	MANHOLE ADDITIONAL HEIGHT 1500 MM DIAM. TYPE 3	ADJUST CATCH BASIN	BARREL ADJUST DRAINAGE STRUCTURE		LOCKING SOLID METAL COVER AND FRAME FOR CATCH BASIN	CONNECTION TO EXISTING DRAINAGE STRUCTURE	CONCRETE PIPE COLLAR	CONSTRUCTION GEOTEXTILE FOR UNDERGROUND DRAINAGE		ECOLOGY DITCH					SEE GENERAL NOTES
			M	M	EACH	EACH		EACH	EACH	EACH	M2		M					
D2-25	L 38+781.5																	
D2-26	L 38+672																	
D2-27	NBCD 8+833 RT TO NBCD 8+840 RT									1								1,2,17,18
D3-1	L 38+911 LT				2													
D3-2	L 38+911 LT				1													3,7,8
D3-3	L 38+974 RT TO L 39+033 RT				1													7,8,17
D3-4	L 38+974 LT				1													7,8,17
D3-5	L 39+033 RT				1													7,8,10
D3-6	L 39+033 LT				1													3,7,8
D3-7	L 39+033 LT TO L 39+077 RT				1													7,8,17
D3-8	L 39+077 LT				1													7,8,17
D3-9	L 39+124 LT TO L 39+136 LT				1													7,8,12,17
D3-10	L 39+124 RT				1													7,8,17
D3-11	L 39+149 RT TO L 39161 LT				1													7,8,12,17
D3-12	L 39+161 RT				1													7,8,10
D3-13	NBCD 8+837 LT TO NBCD 8+852 LT				1													7,17
D3-14	NBCD 8+852 LT TO NBCD 8+867 LT				1													7,17
D3-15	NBCD 8+867 LT				1													7,17
D3-16	NBCD 8+867 LT TO NBCD 8+891 LT				1													7,10
D3-17	NBCD 8+891 LT TO NBCD 8+913 LT				1													7,10
D3-18	NBCD 8+913 LT				1													7,10
D3-19	NBCD 8+913 LT TO NBCD 8+959 LT				1													7,10
D3-20	NBCD 8+959 LT				1													7,10
D3-21	NBCD 8+959 LT TO NBCD 9+020 LT				1													7,17
D3-22	NBCD 9+020 LT				1													7,17
D3-23	NBCD 9+020 LT TO NBCD 9+081 LT				1													7,17
D3-24	NBCD 9+081 LT				1													7,17
D3-25	NBCD 9+081 LT TO NBCD 9+118.5 LT				1													7,17
D3-26	NBCD 9+118.5 LT				1													7,17
D3-27	NBCD 9+118.5 RT				1													7,17
D3-28	NBCD 9+118.5 LT TO NBCD 9+136 RT				1													7,17
D3-29	NBCD 9+193 RT TO NBCD 9+202 RT				1													12,17,19
D3-30	L 39+059 LT TO L 39+089 LT				1													12,17
	SHEET TOTAL				31					1								

GENERAL NOTES:

10. (CONTINUED FROM PREVIOUS SHEET)

SPIRAL RIB STORM SEWER PIPE:
-PLAIN ALUMINUM OR PLAIN NARROW PITCH ALUMINUM, 76.2 mm THICK.
-PLAIN ALUMINIZED STEEL OR PLAIN NARROW PITCH ALUMINIZED STEEL, 76.2 mm THICK.
-TR. 2 GALVANIZED STEEL OR TR. 2 NARROW PITCH GALVANIZED STEEL, 0.064 IN. THICK.
SEE TABLE 8-9.9 OF HYDRAULICS MANUAL.

THERMOPLASTIC STORM SEWER PIPE CONFORMING TO SECTION 9-05.19 OF THE STANDARD SPECIFICATIONS. SIZE NOT TO EXCEED 900 mm, COVER NOT TO EXCEED 4.5m.

11. USE CONCRETE PIPE ANCHORS. SEE SEE SPECIAL PROVISIONS. SEE STANDARD PLAN B-12.

12. SEE "RIPRAP OUTFALL PROTECTION DETAIL", SHEET DD-1.

13. BLOCKOUT REQUIRED IN WALL. SEE RETAINING WALL PLANS.

14. BEVELED END SECTION REQUIRED. SEE STANDARD PLAN B-7a.

15. SEE BRIDGE STRUCTURAL PLANS & DETAILS.

16. SEE DETENTION STRUCTURAL PLANS & DRAINAGE DETAILS.

17. USE SPECIFIED PIPE MATERIAL. ALTERNATIVES NOT ACCEPTABLE.

18. SEE STRUCTURAL EARTH WALL PLANS FOR COORDINATION AND TIMING.

19. USED VANED GRATE PER STD. PLAN B-2b.

20. SEE ECOLOGY DITCH DETAIL SHEET DD-2.

21. ALL ELEVATIONS TO FINISH GRADE SHOWN ON PROFILE SHEETS ARE PRIOR TO OVERLAY.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96				REGION NO. 10	STATE WASH
ENTERED BY	A. CHAN	10/96					
CHECKED BY	R. THURMOND	10/96				JOB NUMBER 96W035	
PROJ. ENGR.	R. KINOSHITA	10/96	1/8/97	Revise note 10 to 17 for	FT		
REGION ADM.	J. OKAMOTO	10/96		D3-9 and D3-10		CONTRACT NO. 5054	
		DATE	DATE	REVISION	BY		

FED. AID. PROJ. NO.

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-8

SHEET 126 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		REMOVING DRAINAGE STRUCTURE	DITCH EXCAVATION INCL. HAUL	GRATE INLET TYPE 1 OR 2	HAND PLACED RIPRAP		QUARRY SPALLS	UNDERDRAIN PIPE 150 MM DIAM.	CATCH BASIN TYPE 1	CATCH BASIN TYPE 2 1200 MM DIAM.		CATCH BASIN TYPE 2 1350 MM DIAM.	CATCH BASIN TYPE 2 1500 MM DIAM.	CATCH BASIN TYPE 2 1800 MM DIAM. WITH FLOW RESTRICTOR	CATCH BASIN TYPE 2 1800 MM DIAM. (MODIFIED)		SEE GENERAL NOTES
			EACH	M3	EACH	M3		M3	M	EACH	EACH		EACH	EACH	EACH	EACH		
D3-31	L 39+124 LT TO L 39+140 LT		1															5
D3-32	L 39+033 LT		1															
D3-33	L 39+151 RT TO L 39+158 RT		1															5
D3-34	L 39+161 LT TO L 39+202 LT				1													7,8,10
D3-35	L 39+105 LT TO L 39+107 LT					5.3												15
D3-36	L 39+112 LT TO L 39+114 LT					6												15
D3-37	L 39+116 LT TO L 39+120 RT					9												15
D3-38	L 39+123 LT TO L 39+127 RT					9												15
D3-39	L 39+126 RT TO L 39+136 RT					19.5												15
D3-40	L 39+133 RT TO L 39+143 RT					21.8												15
D3-41	NBCD 8+973 RT																	1,2,17,18
D3-42	NBCD 8+973 LT				1													7
D4-1	L 39+158 TO L 39+246		1															17
D4-2	L 39+202 LT TO L 39+246.3 LT													1				1,2,8,10
D4-3	L 39+246.3 LT TO L 39+296 LT										1							8,10
D4-4	L 39+296 LT TO L 39+342 LT										1							8,17
D4-5	L 39+260 RT				1													3,7
D4-6	N-195TH 9+284 RT TO NBCD 9+301 RT					0.8					1							12,16,17
D4-7	L 39+269 LT																	
D4-8	NBCD 39+377 RT TO L 39+448 RT															1		7,17
D4-9	NBCD 9+371 RT TO NBCD 9+377 RT													1				16,17
D4-10	NBCD 9+260 LT		1															5
D4-11	L 39+260 RT TO L 39+323 RT				1													7,17
D4-12	L 39+448 RT		1															5
D4-13	L 39+444 LT				1													7,8,10
D4-14	L 39+445 RT																	
D4-15	NBCD 9+440 RT										1							3
D4-16	NBCD 9+434 RT TO L 39+448 RT				1													7,17
D4-17	NBCD 9+430 RT TO NBCD 9+610 RT								183									
D4-18	L 39+448 RT TO L 39+484 RT													1				10
D4-19	NBCD 9+295 RT TO NBCD 9+310 RT																	10,14,16
D4-20	NBCD 9+202 RT TO NBCD 9+295 RT														1			10
D5-1	L 39+514 RT																	7
D5-2	L 39+521 LT										1							3,8,10
D5-3	L 39+536 LT																	
	SHEET TOTAL		6		6	71.4			183		5			3	1	1		

GENERAL NOTES:

1. CONNECT TO EXISTING PIPE.
2. SEE "CONCRETE PIPE COLLAR DETAIL" SHEET DD-3.
3. CONNECT EXISTING STORM SEWER PIPE TO NEW CATCH BASIN OR MANHOLE.
4. SEE UNDERDRAIN DETAIL ON BARRIER DETAIL SHEET BD-11.
5. PLUG ABANDONED PIPE.
6. SEE ROADWAY SECTION "FILL TOE DETAIL", SHEET RS-8, FOR ADDITIONAL QUANTITY.
7. USE GRATE B PER STD. PLAN B-4b, WITH BOLT DOWN CAPACITY PER DETAIL SHEET D-11.
8. SEE ILLUMINATION AND POWER DISTRIBUTION PLAN SHEETS FOR INFORMATION REGARDING UTILITIES IN THIS AREA.
9. SEE BIO-FILTRATION DETAILS, SHEET DD-2.
10. ACCEPTABLE ALTERNATES FOR STORM SEWER PIPE ARE:

GALVANIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-TR. 2 WITH WELDED OR GASKETED LONGITUDINAL SEAMS, 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.

ALUMINIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-PLAIN WITH GASKETED OR WELDED AND REMETALIZED LONGITUDINAL SEAMS., 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.
SEE TABLE 8-9.2 OF HYDRAULICS MANUAL.

ALUMINUM STORM SEWER PIPE:
-TR. 5, 76.mm THICK.
-PLAIN WITH GASKETED LONGITUDINAL SEAMS 76.2 mm THICK, DIAMETER 3 INCHES LARGER THAN SPECIFIED.

(CONTINUED ON NEXT SHEET)

FOR "AS CONSTRUCTED" PLANS" ONLY

DESIGNED BY	F. TIMM	10/96				
ENTERED BY	A. CHAN	10/96				
CHECKED BY	R. THURMOND	10/96	1/8/97	Revise item to removing	FT	
PROJ. ENGR.	R. KINOSHITA	10/96		drainage structure;		
REGION ADM.	J. OKAMOTO	10/96		Add grate inlet to D4-16		
		DATE	DATE	REVISION	BY	

REGION NO. 10 | STATE WASH | FED. AID. PROJ. NO.

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-9

SHEET 127 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		CATCH BASIN TYPE 2 1800 MM DIAM. WITH FLOW SPLITTER	TESTING STORM SEWER PIPE	PLAIN CONC. STORM SEWER PIPE 300 MM DIAM.	PLAIN CONC. STORM SEWER PIPE 450 MM DIAM.		CL II REINF. CONC. STORM SEWER PIPE 1800 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 300 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 450 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 600 MM DIAM.		CL.IV REINF. CONC. STORM SEWER PIPE 750 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 900 MM DIAM.	TR. 5 ST. STORM SEWER PIPE 1.6 MM TH. 300 MM DIAM.	TR. 5 ST. STORM SEWER PIPE 1.6 MM TH. 750MM DIAM		SEE GENERAL NOTES
			EACH	M	M	M		M	M	M	M		M	M	M	M		
D3-31	L 39+124 LT TO L 39+140 LT																	5
D3-32	L 39+033 LT																	
D3-33	L 39+151 RT TO L 39+158 RT																	5
D3-34	L 39+161 LT TO L 39+202 LT			41						41								7,8,10
D3-35	L 39+105 LT TO L 39+107 LT																	15
D3-36	L 39+112 LT TO L 39+114 LT																	15
D3-37	L 39+116 LT TO L 39+120 RT																	15
D3-38	L 39+123 LT TO L 39+127 RT																	15
D3-39	L 39+126 RT TO L 39+136 RT																	15
D3-40	L 39+133 RT TO L 39+143 RT																	15
D3-41	NBCD 8+973 RT												13					1,2,17,18
D3-42	NBCD 8+973 LT																	7
D4-1	L 39+158 TO L 39+246								1									17
D4-2	L 39+202 LT TO L 39+246.3 LT			44		44												1,2,8,10
D4-3	L 39+246.3 LT TO L 39+296 LT			50	50													8,10
D4-4	L 39+296 LT TO L 39+342 LT			45					45									8,17
D4-5	L 39+260 RT																	3,7
D4-6	N-195TH 9+284 RT TO NBCD 9+301 RT			35										35				12,16,17
D4-7	L 39+269 LT																	
D4-8	NBCD 39+377 RT TO L 39+448 RT			63										63				7,17
D4-9	NBCD 9+371 RT TO NBCD 9+377 RT			9										9				16,17
D4-10	NBCD 9+260 LT																	5
D4-11	L 39+260 RT TO L 39+323 RT			60					60									7,17
D4-12	L 39+448 RT																	5
D4-13	L 39+444 LT																	3,7,10
D4-14	L 39+445 RT																	
D4-15	NBCD 9+440 RT																	3
D4-16	NBCD 9+434 RT TO L 39+448 RT			13					13									7,17
D4-17	NBCD 9+430 RT TO NBCD 9+610 RT																	
D4-18	L 39+448 RT TO L 39+484 RT			35										35				10
D4-19	NBCD 9+295 RT TO NBCD 9+310 RT			14										14				10,14,16
D4-20	NBCD 9+202 RT TO NBCD 9+295 RT			91										91				10
D5-1	L 39+514 RT																	7
D5-2	L 39+521 LT				1													3,8,10
D5-3	L 39+536 LT																	
	SHEET TOTAL			500	51	44			119	41			13	247				

GENERAL NOTES:

10. (CONTINUED FROM PREVIOUS SHEET)

SPIRAL RIB STORM SEWER PIPE:
-PLAIN ALUMINUM OR PLAIN NARROW PITCH ALUMINUM, 76.2 mm THICK.
-PLAIN ALUMINIZED STEEL OR PLAIN NARROW PITCH ALUMINIZED STEEL, 76.2 mm THICK.
-TR. 2 GALVANIZED STEEL OR TR. 2 NARROW PITCH GALVANIZED STEEL, 0.064 IN. THICK.
SEE TABLE 8-9.9 OF HYDRAULICS MANUAL.

THERMOPLASTIC STORM SEWER PIPE CONFORMING TO SECTION 9-05.19 OF THE STANDARD SPECIFICATIONS. SIZE NOT TO EXCEED 900 mm, COVER NOT TO EXCEED 4.5m.

11. USE CONCRETE PIPE ANCHORS. SEE SEE SPECIAL PROVISIONS. SEE STANDARD PLAN B-12.

12. SEE "RIPRAP OUTFALL PROTECTION DETAIL", SHEET DD-1.

13. BLOCKOUT REQUIRED IN WALL. SEE RETAINING WALL PLANS.

14. BEVELED END SECTION REQUIRED. SEE STANDARD PLAN B-7a.

15. SEE BRIDGE STRUCTURAL PLANS & DETAILS.

16. SEE DETENTION STRUCTURAL PLANS & DRAINAGE DETAILS.

17. USE SPECIFIED PIPE MATERIAL. ALTERNATIVES NOT ACCEPTABLE.

18. SEE STRUCTURAL EARTH WALL PLANS FOR COORDINATION AND TIMING.

19. USED VANED GRATE PER STD. PLAN B-2b.

20. SEE ECOLOGY DITCH DETAIL SHEET DD-2.

21. ALL ELEVATIONS TO FINISH GRADE SHOWN ON PROFILE SHEETS ARE PRIOR TO OVERLAY.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96					
ENTERED BY	A. CHAN	10/96					
CHECKED BY	R. THURMOND	10/96					
PROJ. ENGR.	R. KINOSHITA	10/96					
REGION ADM.	J. OKAMOTO	10/96					
		DATE	DATE	REVISION		BY	

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-10

SHEET 128 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION	FURNISH AND INSTALL STEEL CASING 900 MM DIAM.	FURNISH AND INSTALL STEEL CASING 750 MM DIAM.	DUCTILE IRON STORM SEWER PIPE CLASS 50 450 MM DIAM	GRAVEL BACKFILL FOR WALL	TOPSOIL TYPE B		STRUCTURE EXCAVATION CLASS B INCL. HAUL	SHORING OR EXTRA EXCAVATION CLASS B	GRAVEL BACKFILL FOR FOUNDATION CLASS B	GRAVEL BACKFILL FOR DRAIN		CONC. CLASS 20	ADJUST MANHOLE	MANHOLE 1200 MM DIAM. TYPE 3	MANHOLE 1500 MM DIAM. TYPE 3		SEE GENERAL NOTES
		M	M	M	M3	M3		M3	M2	M3	M3		M3	EACH	EACH	EACH		
D3-31	L 39+124 LT TO L 39+140 LT												0.1					5
D3-32	L 39+033 LT																	
D3-33	L 39+151 RT TO L 39+158 RT												0.1					5
D3-34	L 39+161 LT TO L 39+202 LT							118	102	1								7,8,10
D3-35	L 39+105 LT TO L 39+107 LT																	15
D3-36	L 39+112 LT TO L 39+114 LT																	15
D3-37	L 39+116 LT TO L 39+120 RT																	15
D3-38	L 39+123 LT TO L 39+127 RT																	15
D3-39	L 39+126 RT TO L 39+136 RT																	15
D3-40	L 39+133 RT TO L 39+143 RT																	15
D3-41	NBCD 8+973 RT							61	39				0.2					1,2,17,18
D3-42	NBCD 8+973 LT							8	5	1								7
D4-1	L 39+158 TO L 39+246																	17
D4-2	L 39+202 LT TO L 39+246.3 LT							116	98	1								1,2,8,10
D4-3	L 39+246.3 LT TO L 39+296 LT							75	69	1								8,10
D4-4	L 39+296 LT TO L 39+342 LT							56	4	1								8,17
D4-5	L 39+260 RT							4	3	1								3,7
D4-6	N-195TH 9+284 RT TO NBCD 9+301 RT							185	103									12,16,17
D4-7	L 39+269 LT																	
D4-8	NBCD 39+377 RT TO L 39+448 RT							188	103	1								7,17
D4-9	NBCD 9+371 RT TO NBCD 9+377 RT							39	22	1								16,17
D4-10	NBCD 9+260 LT												0.1					5
D4-11	L 39+260 RT TO L 39+323 RT							67	2	1								7,17
D4-12	L 39+448 RT												0.1					5
D4-13	L 39+444 LT							5	3	1								3,7,10
D4-14	L 39+445 RT																	
D4-15	NBCD 9+440 RT							11	7	1								3
D4-16	NBCD 9+434 RT TO L 39+448 RT							14		1								7,17
D4-17	NBCD 9+430 RT TO NBCD 9+610 RT										56							
D4-18	L 39+448 RT TO L 39+484 RT							138	76	1								10
D4-19	NBCD 9+295 RT TO NBCD 9+310 RT							57	32									0,14,16
D4-20	NBCD 9+202 RT TO NBCD 9+295 RT							351	193	1								10
D5-1	L 39+514 RT																	7
D5-2	L 39+521 LT							11	6	1								3,8,10
D5-3	L 39+536 LT																	
	SHEET TOTAL							1504	867	15	56		0.6					

FOR "AS CONSTRUCTED PLANS" ONLY

GENERAL NOTES:

1. CONNECT TO EXISTING PIPE.
2. SEE "CONCRETE PIPE COLLAR DETAIL" SHEET DD-3.
3. CONNECT EXISTING STORM SEWER PIPE TO NEW CATCH BASIN OR MANHOLE.
4. SEE UNDERDRAIN DETAIL ON BARRIER DETAIL SHEET BD-11.
5. PLUG ABANDONED PIPE.
6. SEE ROADWAY SECTION "FILL TOE DETAIL", SHEET RS-8, FOR ADDITIONAL QUANTITY.
7. USE GRATE B PER STD. PLAN B-4b, WITH BOLT DOWN CAPACITY PER DETAIL SHEET D-11.
8. SEE ILLUMINATION AND POWER DISTRIBUTION PLAN SHEETS FOR INFORMATION REGARDING UTILITIES IN THIS AREA.
9. SEE BIO-FILTRATION DETAILS, SHEET DD-2.
10. ACCEPTABLE ALTERNATES FOR STORM SEWER PIPE ARE:

GALVANIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-TR. 2 WITH WELDED OR GASKETED LONGITUDINAL SEAMS, 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.

ALUMINIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-PLAIN WITH GASKETED OR WELDED AND REMETALIZED LONGITUDINAL SEAMS., 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.
SEE TABLE 8-9.2 OF HYDRAULICS MANUAL.

ALUMINUM STORM SEWER PIPE:
-TR. 5, 76.mm THICK.
-PLAIN WITH GASKETED LONGITUDINAL SEAMS 76.2 mm THICK, DIAMETER 3 INCHES LARGER THAN SPECIFIED.

(CONTINUED ON NEXT SHEET)

DESIGNED BY	F. TIMM	10/96			
ENTERED BY	A. CHAN	10/96			
CHECKED BY	R. THURMOND	10/96			
PROJ. ENGR.	R. KINOSHITA	10/96			
REGION ADM.	J. OKAMOTO	10/96	1/8/97	Add item	FT
		DATE	DATE	REVISION	BY

REGION NO. 10 | STATE WASH | FED. AID. PROJ. NO.
JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-11

SHEET 129 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		MANHOLE ADDITIONAL HEIGHT 1200 MM DIAM. TYPE 3	MANHOLE ADDITIONAL HEIGHT 1500 MM DIAM. TYPE 3	ADJUST CATCH BASIN	BARREL ADJUST DRAINAGE STRUCTURE		LOCKING SOLID METAL COVER AND FRAME FOR CATCH BASIN	CONNECTION TO EXISTING DRAINAGE STRUCTURE	CONCRETE PIPE COLLAR	CONSTRUCTION GEOTEXTILE FOR UNDERGROUND DRAINAGE		ECOLOGY DITCH					SEE GENERAL NOTES
			M	M	EACH	EACH		EACH	EACH	EACH	M2		M					
D3-31	L 39+124 LT TO L 39+140 LT																	5
D3-32	L 39+033 LT																	
D3-33	L 39+151 RT TO L 39+158 RT																	5
D3-34	L 39+161 LT TO L 39+202 LT				1													7,8,10
D3-35	L 39+105 LT TO L 39+107 LT																	15
D3-36	L 39+112 LT TO L 39+114 LT																	15
D3-37	L 39+116 LT TO L 39+120 RT																	15
D3-38	L 39+123 LT TO L 39+127 RT																	15
D3-39	L 39+126 RT TO L 39+136 RT																	15
D3-40	L 39+133 RT TO L 39+143 RT																	15
D3-41	NBCD 8+973 RT									1								1,2,17,18
D3-42	NBCD 8+973 LT																	7
D4-1	L 39+158 TO L 39+246				1													17
D4-2	L 39+202 LT TO L 39+246.3 LT				1					1								1,2,8,10
D4-3	L 39+246.3 LT TO L 39+296 LT				1													8,10
D4-4	L 39+296 LT TO L 39+342 LT				1													8,17
D4-5	L 39+260 RT																	3,7
D4-6	N-195TH 9+284 RT TO NBCD 9+301 RT																	12,16,17
D4-7	L 39+269 LT				1													
D4-8	NBCD 39+377 RT TO L 39+448 RT				1													7,17
D4-9	NBCD 9+371 RT TO NBCD 9+377 RT							1										16,17
D4-10	NBCD 9+260 LT																	5
D4-11	L 39+260 RT TO L 39+323 RT																	7,17
D4-12	L 39+448 RT				1													5
D4-13	L 39+444 LT				1													3,7,10
D4-14	L 39+445 RT				2													
D4-15	NBCD 9+440 RT																	3
D4-16	NBCD 9+434 RT TO L 39+448 RT				1													7,17
D4-17	NBCD 9+430 RT TO NBCD 9+610 RT										362							
D4-18	L 39+448 RT TO L 39+484 RT																	10
D4-19	NBCD 9+295 RT TO NBCD 9+310 RT							1										10,14,16
D4-20	NBCD 9+202 RT TO NBCD 9+295 RT																	10
D5-1	L 39+514 RT					1												7
D5-2	L 39+521 LT				1													3,8,10
D5-3	L 39+536 LT				1													
	SHEET TOTAL				14	1		2		2	362							

GENERAL NOTES:

10. (CONTINUED FROM PREVIOUS SHEET)

SPIRAL RIB STORM SEWER PIPE:
-PLAIN ALUMINUM OR PLAIN NARROW PITCH ALUMINUM, 76.2 mm THICK.
-PLAIN ALUMINIZED STEEL OR PLAIN NARROW PITCH ALUMINIZED STEEL, 76.2 mm THICK.
-TR. 2 GALVANIZED STEEL OR TR. 2 NARROW PITCH GALVANIZED STEEL, 0.064 IN. THICK.
SEE TABLE 8-9.9 OF HYDRAULICS MANUAL.

THERMOPLASTIC STORM SEWER PIPE CONFORMING TO SECTION 9-05.19 OF THE STANDARD SPECIFICATIONS. SIZE NOT TO EXCEED 900 mm, COVER NOT TO EXCEED 4.5m.

11. USE CONCRETE PIPE ANCHORS. SEE SEE SPECIAL PROVISIONS. SEE STANDARD PLAN B-12.

12. SEE "RIPRAP OUTFALL PROTECTION DETAIL", SHEET DD-1.

13. BLOCKOUT REQUIRED IN WALL. SEE RETAINING WALL PLANS.

14. BEVELED END SECTION REQUIRED. SEE STANDARD PLAN B-7a.

15. SEE BRIDGE STRUCTURAL PLANS & DETAILS.

16. SEE DETENTION STRUCTURAL PLANS & DRAINAGE DETAILS.

17. USE SPECIFIED PIPE MATERIAL. ALTERNATIVES NOT ACCEPTABLE.

18. SEE STRUCTURAL EARTH WALL PLANS FOR COORDINATION AND TIMING.

19. USED VANED GRATE PER STD. PLAN B-2b.

20. SEE ECOLOGY DITCH DETAIL SHEET DD-2.

21. ALL ELEVATIONS TO FINISH GRADE SHOWN ON PROFILE SHEETS ARE PRIOR TO OVERLAY.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96				
ENTERED BY	A. CHAN	10/96				
CHECKED BY	R. THURMOND	10/96				
PROJ. ENGR.	R. KINOSHITA	10/96				
REGION ADM.	J. OKAMOTO	10/96				
		DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-12

SHEET 130 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		REMOVING DRAINAGE STRUCTURE	DITCH EXCAVATION INCL. HAUL	GRATE INLET TYPE 1 OR 2	HAND PLACED RIPRAP		QUARRY SPALLS	UNDERDRAIN PIPE 150 MM DIAM.	CATCH BASIN TYPE 1	CATCH BASIN TYPE 2 1200 MM DIAM.		CATCH BASIN TYPE 2 1350 MM DIAM.	CATCH BASIN TYPE 2 1500 MM DIAM.	CATCH BASIN TYPE 2 1800 MM DIAM. WITH FLOW RESTRICTOR	CATCH BASIN TYPE 2 1800 MM DIAM. (MODIFIED)		SEE GENERAL NOTES
			EACH	M3	EACH	M3		M3	M	EACH	EACH		EACH	EACH	EACH	EACH		
D5-4	L 39+521 RT													1				8,10
D5-5	NBCD 9+507 RT TO L 39+521 RT													1				10,19
D5-6	L 39+536 RT		1															5
D5-7	L 39+521 RT TO L 39+612 RT		1								1							5,8,10
D5-8	L 39+612 LT										1							3,5,10
D5-9	S-195TH 9+672 LT		1															
D5-10	S-195TH 9+672 LT TO S-195TH 9+676 LT										1							1,2,17
D5-11	L 39+612 RT TO L 39+703 RT		1								1							3,5,8,10
D5-12	L 39+703 LT										1							17
D5-13	L 39+795 LT										1							3,10
D5-14	L 39+703 RT TO L 39+795 RT		1								1							3,8,10
D5-15	L 39+810 LT TO L 39+813 LT										1							1,2,17
D5-16	L 39+613 RT										1							5
D5-17	L 39+714 RT										1							3
D5-18	L 39+810 LT		1															
D5-19	NBCD 9+802 RT		1															
D5-20	NBCD 9+803 RT									1								1,2,17
D5-21	NBCD 9+711 RT		1															
D5-22	NBCD 9+714 RT										1							1,2,17
D5-23	L 39+520 LT		1															5
D5-24	195TH-N 9+617 RT										1							17
D5-25	NBCD 9+505 RT TO NBCD 9+507 RT													1				10,16
D5-26	NBCD 9+489 RT TO NBCD 9+497 RT																	10,16
D5-27	195TH-N 9+609 RT		1															5
D5-28	195TH-N 9+570 RT TO NBCD 9+719 RT								150									
D5-29	NBCD 9+482 RT TO NBCD 9+489 RT																	10
D5-30	NBCD 9+475 LT TO NBCD 9+482 RT													1				10
D5-31	195TH-N 9+482 RT TO 195TH-N 9+550 RT									1				1				17,19
D5-32	NBCD 9+535 RT TO 195TH-N 9+550 RT										1							17,19
D5-33	NBCD 9+507 RT TO NBCD 9+535 RT				1													7,10
D6-1	L 39+813 LT TO L 39+901 LT								88									
D6-2	L 39+901																	
D6-3	L 39+886 LT										1							3,17
D6-4	L 39+795 RT TO L 39+866 RT		1								1							3,8,10
	SHEET TOTAL		11		1				238	2	15			5				

GENERAL NOTES:

1. CONNECT TO EXISTING PIPE.
2. SEE "CONCRETE PIPE COLLAR DETAIL" SHEET DD-3.
3. CONNECT EXISTING STORM SEWER PIPE TO NEW CATCH BASIN OR MANHOLE.
4. SEE UNDERDRAIN DETAIL ON BARRIER DETAIL SHEET BD-11.
5. PLUG ABANDONED PIPE.
6. SEE ROADWAY SECTION "FILL TOE DETAIL", SHEET RS-8, FOR ADDITIONAL QUANTITY.
7. USE GRATE B PER STD. PLAN B-4b, WITH BOLT DOWN CAPACITY PER DETAIL SHEET D-11.
8. SEE ILLUMINATION AND POWER DISTRIBUTION PLAN SHEETS FOR INFORMATION REGARDING UTILITIES IN THIS AREA.
9. SEE BIO-FILTRATION DETAILS, SHEET DD-2.
10. ACCEPTABLE ALTERNATES FOR STORM SEWER PIPE ARE:

GALVANIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-TR. 2 WITH WELDED OR GASKETED LONGITUDINAL SEAMS, 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.

ALUMINIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-PLAIN WITH GASKETED OR WELDED AND REMETALIZED LONGITUDINAL SEAMS., 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.
SEE TABLE 8-9.2 OF HYDRAULICS MANUAL.

ALUMINUM STORM SEWER PIPE:
-TR. 5, 76.mm THICK.
-PLAIN WITH GASKETED LONGITUDINAL SEAMS 76.2 mm THICK, DIAMETER 3 INCHES LARGER THAN SPECIFIED.

(CONTINUED ON NEXT SHEET)

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96			
ENTERED BY	A. CHAN	10/96	1/8/97	Revise item to removing	FT
CHECKED BY	R. THURMOND	10/96		drainage structure;	
PROJ. ENGR.	R. KINOSHITA	10/96		Add note 10 to D5-4;	
REGION ADM.	J. OKAMOTO	10/96		Add catch basin to D5-30	
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-13

SHEET 131 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		CATCH BASIN TYPE 2 1800 MM DIAM. WITH FLOW SPLITTER	TESTING STORM SEWER PIPE	PLAIN CONC. STORM SEWER PIPE 300 MM DIAM.	PLAIN CONC. STORM SEWER PIPE 450 MM DIAM.		CL II REINF. CONC. STORM SEWER PIPE 1800 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 300 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 450 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 600 MM DIAM.		CL.IV REINF. CONC. STORM SEWER PIPE 750 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 900 MM DIAM.	TR. 5 ST. STORM SEWER PIPE 1.6 MM TH. 300 MM DIAM.	TR. 5 ST. STORM SEWER PIPE 1.6 MM TH. 750MM DIAM		SEE GENERAL NOTES
			EACH	M	M	M		M	M	M	M		M	M	M	M		
D5-4	L 39+521 RT			17							17							8,10
D5-5	NBCD 9+507 RT TO L 39+521 RT			10										10				10,19
D5-6	L 39+536 RT																	5
D5-7	L 39+521 RT TO L 39+612 RT			91							91							5,8,10
D5-8	L 39+612 LT				1													3,5,10
D5-9	S-195TH 9+672 LT																	
D5-10	S-195TH 9+672 LT TO S-195TH 9+676 LT			5					5									1,2,17
D5-11	L 39+612 RT TO L 39+703 RT			91							91							3,5,8,10
D5-12	L 39+703 LT								1									17
D5-13	L 39+795 LT				1													3,10
D5-14	L 39+703 RT TO L 39+795 RT			91							91							3,8,10
D5-15	L 39+810 LT TO L 39+813 LT								2									1,2,17
D5-16	L 39+613 RT																	5
D5-17	L 39+714 RT																	3
D5-18	L 39+810 LT																	
D5-19	NBCD 9+802 RT																	
D5-20	NBCD 9+803 RT								2									1,2,17
D5-21	NBCD 9+711 RT																	
D5-22	NBCD 9+714 RT			7					7									1,2,17
D5-23	L 39+520 LT																	5
D5-24	195TH-N 9+617 RT			23					23									17
D5-25	NBCD 9+505 RT TO NBCD 9+507 RT			3										3				10,16
D5-26	NBCD 9+489 RT TO NBCD 9+497 RT			8										8				10,16
D5-27	195TH-N 9+609 RT																	5
D5-28	195TH-N 9+570 RT TO NBCD 9+719 RT																	
D5-29	NBCD 9+482 RT TO NBCD 9+489 RT			6										6				10
D5-30	NBCD 9+475 LT TO NBCD 9+482 RT			12										12				10
D5-31	195TH-N 9+482 RT TO 195TH-N 9+550 RT			66					66									17,19
D5-32	NBCD 9+535 RT TO 195TH-N 9+550 RT			22					22									17,19
D5-33	NBCD 9+507 RT TO NBCD 9+535 RT			27					27									7,10
D6-1	L 39+813 LT TO L 39+901 LT																	
D6-2	L 39+901																	
D6-3	L 39+886 LT								1									3,17
D6-4	L 39+795 RT TO L 39+866 RT			91							91							3,8,10
	SHEET TOTAL			570	2				156		381			39				

GENERAL NOTES:

10. (CONTINUED FROM PREVIOUS SHEET)

SPIRAL RIB STORM SEWER PIPE:
-PLAIN ALUMINUM OR PLAIN NARROW PITCH ALUMINUM, 76.2 mm THICK.
-PLAIN ALUMINIZED STEEL OR PLAIN NARROW PITCH ALUMINIZED STEEL, 76.2 mm THICK.
-TR. 2 GALVANIZED STEEL OR TR. 2 NARROW PITCH GALVANIZED STEEL, 0.064 IN. THICK. SEE TABLE 8-9.9 OF HYDRAULICS MANUAL.

THERMOPLASTIC STORM SEWER PIPE CONFORMING TO SECTION 9-05.19 OF THE STANDARD SPECIFICATIONS. SIZE NOT TO EXCEED 900 mm, COVER NOT TO EXCEED 4.5m.

11. USE CONCRETE PIPE ANCHORS. SEE SEE SPECIAL PROVISIONS. SEE STANDARD PLAN B-12.

12. SEE "RIPRAP OUTFALL PROTECTION DETAIL", SHEET DD-1.

13. BLOCKOUT REQUIRED IN WALL. SEE RETAINING WALL PLANS.

14. BEVELED END SECTION REQUIRED. SEE STANDARD PLAN B-7a.

15. SEE BRIDGE STRUCTURAL PLANS & DETAILS.

16. SEE DETENTION STRUCTURAL PLANS & DRAINAGE DETAILS.

17. USE SPECIFIED PIPE MATERIAL. ALTERNATIVES NOT ACCEPTABLE.

18. SEE STRUCTURAL EARTH WALL PLANS FOR COORDINATION AND TIMING.

19. USED VANED GRATE PER STD. PLAN B-2b.

20. SEE ECOLOGY DITCH DETAIL SHEET DD-2.

21. ALL ELEVATIONS TO FINISH GRADE SHOWN ON PROFILE SHEETS ARE PRIOR TO OVERLAY.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96			
ENTERED BY	A. CHAN	10/96			
CHECKED BY	R. THURMOND	10/96	1/8/97	Revise quantities on D5-4,	FT
PROJ. ENGR.	R. KINOSHITA	10/96		D5-7, D5-11, D5-14, D5-24;	
REGION ADM.	J. OKAMOTO	10/96		Add note 10 to D5-4	
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-14

SHEET 132 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION	FURNISH AND INSTALL STEEL CASING 900 MM DIAM.	FURNISH AND INSTALL STEEL CASING 750 MM DIAM.	DUCTILE IRON STORM SEWER PIPE CLASS 50 450 MM DIAM	GRAVEL BACKFILL FOR WALL	TOPSOIL TYPE B		STRUCTURE EXCAVATION CLASS B INCL. HAUL	SHORING OR EXTRA EXCAVATION CLASS B	GRAVEL BACKFILL FOR FOUNDATION CLASS B	GRAVEL BACKFILL FOR DRAIN		CONC. CLASS 20	ADJUST MANHOLE	MANHOLE 1200 MM DIAM. TYPE 3	MANHOLE 1500 MM DIAM. TYPE 3		SEE GENERAL NOTES
		M	M	M	M3	M3		M3	M2	M3	M3		M3	EACH	EACH	EACH		
D5-4	L 39+521 RT	17						13	7	1								8,10
D5-5	NBCD 9+507 RT TO L 39+521 RT							47	25	1								10,19
D5-6	L 39+536 RT												0.1					5
D5-7	L 39+521 RT TO L 39+612 RT							240	176	1			0.1					5,8,10
D5-8	L 39+612 LT							9	5	1								3,5,10
D5-9	S-195TH 9+672 LT																	
D5-10	S-195TH 9+672 LT TO S-195TH 9+676 LT							9	3	1								1,2,17
D5-11	L 39+612 RT TO L 39+703 RT							237	174	1			0.1					3,5,8,10
D5-12	L 39+703 LT							6	3	1								17
D5-13	L 39+795 LT							9	5	1								3,10
D5-14	L 39+703 RT TO L 39+795 RT							242	178	1			0.1					3,8,10
D5-15	L 39+810 LT TO L 39+813 LT							10	7	1								1,2,17
D5-16	L 39+613 RT							6	3	1			0.1					5
D5-17	L 39+714 RT							7	4	1								3
D5-18	L 39+810 LT																	
D5-19	NBCD 9+802 RT																	
D5-20	NBCD 9+803 RT							4	2	1								1,2,17
D5-21	NBCD 9+711 RT																	
D5-22	NBCD 9+714 RT							14	9	1								1,2,17
D5-23	L 39+520 LT												0.2					5
D5-24	195TH-N 9+617 RT							16		1								17
D5-25	NBCD 9+505 RT TO NBCD 9+507 RT							23	11	1								10,16
D5-26	NBCD 9+489 RT TO NBCD 9+497 RT							27	15									10,16
D5-27	195TH-N 9+609 RT												0.1					5
D5-28	195TH-N 9+570 RT TO NBCD 9+719 RT										46							
D5-29	NBCD 9+482 RT TO NBCD 9+489 RT							34	18	1								10
D5-30	NBCD 9+475 LT TO NBCD 9+482 RT							50	27	1								10
D5-31	195TH-N 9+482 RT TO 195TH-N 9+550 RT							95	90	1								17,19
D5-32	NBCD 9+535 RT TO 195TH-N 9+550 RT							61	50	1								17,19
D5-33	NBCD 9+507 RT TO NBCD 9+535 RT							47	43	1								7,10
D6-1	L 39+813 LT TO L 39+901 LT										27							
D6-2	L 39+901																	
D6-3	L 39+886 LT							7	4	1								3,17
D6-4	L 39+795 RT TO L 39+866 RT							227	167	1			0.1					3,8,10
	SHEET TOTAL	17						1440	1026	23	73		0.9					

GENERAL NOTES:

1. CONNECT TO EXISTING PIPE.
2. SEE "CONCRETE PIPE COLLAR DETAIL" SHEET DD-3.
3. CONNECT EXISTING STORM SEWER PIPE TO NEW CATCH BASIN OR MANHOLE.
4. SEE UNDERDRAIN DETAIL ON BARRIER DETAIL SHEET BD-11.
5. PLUG ABANDONED PIPE.
6. SEE ROADWAY SECTION "FILL TOE DETAIL", SHEET RS-8, FOR ADDITIONAL QUANTITY.
7. USE GRATE B PER STD. PLAN B-4b, WITH BOLT DOWN CAPACITY PER DETAIL SHEET D-11.
8. SEE ILLUMINATION AND POWER DISTRIBUTION PLAN SHEETS FOR INFORMATION REGARDING UTILITIES IN THIS AREA.
9. SEE BIO-FILTRATION DETAILS, SHEET DD-2.
10. ACCEPTABLE ALTERNATES FOR STORM SEWER PIPE ARE:

GALVANIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-TR. 2 WITH WELDED OR GASKETED LONGITUDINAL SEAMS, 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.

ALUMINIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-PLAIN WITH GASKETED OR WELDED AND REMETALIZED LONGITUDINAL SEAMS., 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.
SEE TABLE 8-9.2 OF HYDRAULICS MANUAL.

ALUMINUM STORM SEWER PIPE:
-TR. 5, 76.mm THICK.
-PLAIN WITH GASKETED LONGITUDINAL SEAMS 76.2 mm THICK, DIAMETER 3 INCHES LARGER THAN SPECIFIED.

(CONTINUED ON NEXT SHEET)

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96				
ENTERED BY	A. CHAN	10/96				
CHECKED BY	R. THURMOND	10/96	1/8/97	Add item;	FT	
PROJ. ENGR.	R. KINOSHITA	10/96		Revise quantity on D5-4;		
REGION ADM.	J. OKAMOTO	10/96		Add note 10 to D5-4		
		DATE	DATE	REVISION	BY	

REGION NO. 10 | STATE WASH | FED. AID. PROJ. NO.

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-15

SHEET 133 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		MANHOLE ADDITIONAL HEIGHT 1200 MM DIAM. TYPE 3	MANHOLE ADDITIONAL HEIGHT 1500 MM DIAM. TYPE 3	ADJUST CATCH BASIN	BARREL ADJUST DRAINAGE STRUCTURE		LOCKING SOLID METAL COVER AND FRAME FOR CATCH BASIN	CONNECTION TO EXISTING DRAINAGE STRUCTURE	CONCRETE PIPE COLLAR	CONSTRUCTION GEOTEXTILE FOR UNDERGROUND DRAINAGE		ECOLOGY DITCH					SEE GENERAL NOTES
			M	M	EACH	EACH		EACH	EACH	EACH	M2		M					
D5-4	L 39+521 RT				1													8,10
D5-5	NBCD 9+507 RT TO L 39+521 RT				1													10,19
D5-6	L 39+536 RT																	5
D5-7	L 39+521 RT TO L 39+612 RT				1													5,8,10
D5-8	L 39+612 LT				1													3,5,10
D5-9	S-195TH 9+672 LT																	
D5-10	S-195TH 9+672 LT TO S-195TH 9+676 LT									1								1,2,17
D5-11	L 39+612 RT TO L 39+703 RT				1													3,5,8,10
D5-12	L 39+703 LT				1													17
D5-13	L 39+795 LT				1													3,10
D5-14	L 39+703 RT TO L 39+795 RT				1													3,8,10
D5-15	L 39+810 LT TO L 39+813 LT									1								1,2,17
D5-16	L 39+613 RT				1													5
D5-17	L 39+714 RT				1													3
D5-18	L 39+810 LT																	
D5-19	NBCD 9+802 RT																	1,2,17
D5-20	NBCD 9+803 RT									1								
D5-21	NBCD 9+711 RT																	1,2,17
D5-22	NBCD 9+714 RT									1								5
D5-23	L 39+520 LT																	17
D5-24	195TH-N 9+617 RT				1													10,16
D5-25	NBCD 9+505 RT TO NBCD 9+507 RT				1			1										
																		10,16
D5-26	NBCD 9+489 RT TO NBCD 9+497 RT																	5
D5-27	195TH-N 9+609 RT										297							
D5-28	195TH-N 9+570 RT TO NBCD 9+719 RT																	10
D5-29	NBCD 9+482 RT TO NBCD 9+489 RT				1			1										
																		10
D5-30	NBCD 9+475 LT TO NBCD 9+482 RT				1			1										17,19
D5-31	195TH-N 9+482 RT TO 195TH-N 9+550 RT				1													17,19
D5-32	NBCD 9+535 RT TO 195TH-N 9+550 RT				1													7,10
D5-33	NBCD 9+507 RT TO NBCD 9+535 RT				1													
D6-1	L 39+813 LT TO L 39+901 LT										174							
D6-2	L 39+901					1												3,17
D6-3	L 39+886 LT				1													3,8,10
D6-4	L 39+795 RT TO L 39+866 RT				1													
	SHEET TOTAL				19	1		3		4	471							

GENERAL NOTES:

10. (CONTINUED FROM PREVIOUS SHEET)

SPIRAL RIB STORM SEWER PIPE:
-PLAIN ALUMINUM OR PLAIN NARROW PITCH ALUMINUM, 76.2 mm THICK.
-PLAIN ALUMINIZED STEEL OR PLAIN NARROW PITCH ALUMINIZED STEEL, 76.2 mm THICK.
-TR. 2 GALVANIZED STEEL OR TR. 2 NARROW PITCH GALVANIZED STEEL, 0.064 IN. THICK.
SEE TABLE 8-9.9 OF HYDRAULICS MANUAL.

THERMOPLASTIC STORM SEWER PIPE CONFORMING TO SECTION 9-05.19 OF THE STANDARD SPECIFICATIONS. SIZE NOT TO EXCEED 900 mm, COVER NOT TO EXCEED 4.5m.

11. USE CONCRETE PIPE ANCHORS. SEE SEE SPECIAL PROVISIONS. SEE STANDARD PLAN B-12.

12. SEE "RIPRAP OUTFALL PROTECTION DETAIL", SHEET DD-1.

13. BLOCKOUT REQUIRED IN WALL. SEE RETAINING WALL PLANS.

14. BEVELED END SECTION REQUIRED. SEE STANDARD PLAN B-7a.

15. SEE BRIDGE STRUCTURAL PLANS & DETAILS.

16. SEE DETENTION STRUCTURAL PLANS & DRAINAGE DETAILS.

17. USE SPECIFIED PIPE MATERIAL. ALTERNATIVES NOT ACCEPTABLE.

18. SEE STRUCTURAL EARTH WALL PLANS FOR COORDINATION AND TIMING.

19. USED VANED GRATE PER STD. PLAN B-2b.

20. SEE ECOLOGY DITCH DETAIL SHEET DD-2.

21. ALL ELEVATIONS TO FINISH GRADE SHOWN ON PROFILE SHEETS ARE PRIOR TO OVERLAY.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96			
ENTERED BY	A. CHAN	10/96			
CHECKED BY	R. THURMOND	10/96			
PROJ. ENGR.	R. KINOSHITA	10/96			
REGION ADM.	J. OKAMOTO	10/96	1/8/97	Add note 10 to D5-4	FT
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	
JOB NUMBER 96W035		
CONTRACT NO. 5054		

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-16

SHEET 134 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		REMOVING DRAINAGE STRUCTURE EACH	DITCH EXCAVATION INCL. HAUL M3	GRATE INLET TYPE 1 OR 2 EACH	HAND PLACED RIPRAP M3		QUARRY SPALLS M3	UNDERDRAIN PIPE 150 MM DIAM. M	CATCH BASIN TYPE 1 EACH	CATCH BASIN TYPE 2 1200 MM DIAM. EACH		CATCH BASIN TYPE 2 1350 MM DIAM. EACH	CATCH BASIN TYPE 2 1500 MM DIAM. EACH	CATCH BASIN TYPE 2 1800 MM DIAM. WITH FLOW RESTRICTOR EACH	CATCH BASIN TYPE 2 1800 MM DIAM. (MODIFIED) EACH		SEE GENERAL NOTES
D6-5	L 39+977 RT										1							17
D6-6	L 39+866 RT TO L 39+977 RT		1								1							8,10
D6-7	L 40+070 LT										1							3,10
D6-8	L 39+977 RT TO L 40+070 RT		1								1							8,10
D6-9	L 39+901 RT		1															
D6-10	L 39+903 RT									1								1,2,17
D6-11	L 39+963 RT									1								10,19
D6-12	NOT USED																	
D6-13	NOT USED																	
D6-14	L 39+985 LT																	
D7-1	L 40+070 RT TO LR 40+162 LT		1								1							5,8,10
D7-2	LR 40+162 LT TO LR 40+255 LT										1							5,8,10
D7-3	LR 40+255 RT		1															1,2,3,17
D7-4	LR 40+255 LT TO LR 40+344 LT		1								1							5,10
D7-5	LR 40+378 RT																	
D7-6	LR 40+344 LT TO LR 40+420 LT		1								1							5,10
D7-7	LR 40+420 LT									1								17
D8-1	LR 40+480 RT																	
D8-2	LR 40+463 LT									1								17
D8-3	LR 40+420 LT TO LR 40+463 LT																	5,10
D8-4	LR 40+575 RT																	
D8-5	LR 40+465 LT TO LR 40+555 LT									1								17
D8-6	LR 40+557 LT																	5,10
D8-7	LL 40+480 LT																	
D8-8	LR 40+647 LT TO LR 40+648 LT									1								17
D8-9	LR 40+648 LT																	
D8-10	LR 40+660 RT																	
D8-11	LL 40+700 RT		1								1							
D8-12	LL 40+700 RT TO LL 40+710 RT									1								17
D9-1	LL 40+840 LT TO LL 40+840 RT		1								1							10
D9-2	LL 40+840 RT TO LR 40+846 LT										1							10
D9-3	LL 40+970 RT		1															
D9-4	LL 40+972 RT										1							1,2,17
	SHEET TOTAL		8							7	10							

GENERAL NOTES:

1. CONNECT TO EXISTING PIPE.
2. SEE "CONCRETE PIPE COLLAR DETAIL" SHEET DD-3.
3. CONNECT EXISTING STORM SEWER PIPE TO NEW CATCH BASIN OR MANHOLE.
4. SEE UNDERDRAIN DETAIL ON BARRIER DETAIL SHEET BD-11.
5. PLUG ABANDONED PIPE.
6. SEE ROADWAY SECTION "FILL TOE DETAIL", SHEET RS-8, FOR ADDITIONAL QUANTITY.
7. USE GRATE B PER STD. PLAN B-4b, WITH BOLT DOWN CAPACITY PER DETAIL SHEET D-11.
8. SEE ILLUMINATION AND POWER DISTRIBUTION PLAN SHEETS FOR INFORMATION REGARDING UTILITIES IN THIS AREA.
9. SEE BIO-FILTRATION DETAILS, SHEET DD-2.
10. ACCEPTABLE ALTERNATES FOR STORM SEWER PIPE ARE:

GALVANIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-TR. 2 WITH WELDED OR GASKETED LONGITUDINAL SEAMS, 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.

ALUMINIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-PLAIN WITH GASKETED OR WELDED AND REMETALIZED LONGITUDINAL SEAMS., 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.
SEE TABLE 8-9.2 OF HYDRAULICS MANUAL.

ALUMINUM STORM SEWER PIPE:
-TR. 5, 76.mm THICK.
-PLAIN WITH GASKETED LONGITUDINAL SEAMS 76.2 mm THICK, DIAMETER 3 INCHES LARGER THAN SPECIFIED.

(CONTINUED ON NEXT SHEET)

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96			
ENTERED BY	A. CHAN	10/96			
CHECKED BY	R. THURMOND	10/96			
PROJ. ENGR.	R. KINOSHITA	10/96	1/8/97	Revise item to removing	FT
REGION ADM.	J. OKAMOTO	10/96		drainage structure	
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-17

SHEET 135 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		CATCH BASIN TYPE 2 1800 MM DIAM. WITH FLOW SPLITTER	TESTING STORM SEWER PIPE	PLAIN CONC. STORM SEWER PIPE 300 MM DIAM.	PLAIN CONC. STORM SEWER PIPE 450 MM DIAM.		CL II REINF. CONC. STORM SEWER PIPE 1800 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 300 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 450 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 600 MM DIAM.		CL.IV REINF. CONC. STORM SEWER PIPE 750 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 900 MM DIAM.	TR. 5 ST. STORM SEWER PIPE 1.6 MM TH. 300 MM DIAM.	TR. 5 ST. STORM SEWER PIPE 1.6 MM TH. 750MM DIAM		SEE GENERAL NOTES
			EACH	M	M	M		M	M	M	M		M	M	M	M		
D6-5	L 39+977 RT								1									17
D6-6	L 39+866 RT TO L 39+977 RT			91							91							8,10
D6-7	L 40+070 LT				1													3,10
D6-8	L 39+977 RT TO L 40+070 RT			93						93								8,10
D6-9	L 39+901 RT																	
D6-10	L 39+903 RT								2									1,2,17
D6-11	L 39+963 RT			61	61													10,19
D6-12	NOT USED																	
D6-13	NOT USED																	
D6-14	L 39+985 LT																	
D7-1	L 40+070 RT TO LR 40+162 LT			92						92								5,8,10
D7-2	LR 40+162 LT TO LR 40+255 LT			93		93												5,8,10
D7-3	LR 40+255 RT								2									1,2,3,17
D7-4	LR 40+255 LT TO LR 40+344 LT			89		89												5,10
D7-5	LR 40+378 RT																	
D7-6	LR 40+344 LT TO LR 40+420 LT			76		76												5,10
D7-7	LR 40+420 LT			3					3									17
D8-1	LR 40+480 RT																	
D8-2	LR 40+463 LT			3					3									17
D8-3	LR 40+420 LT TO LR 40+463 LT			45		45												5,10
D8-4	LR 40+575 RT																	
D8-5	LR 40+465 LT TO LR 40+555 LT			3					3									17
D8-6	LR 40+557 LT			92		92												5,10
D8-7	LL 40+480 LT																	
D8-8	LR 40+647 LT TO LR 40+648 LT								2									17
D8-9	LR 40+648 LT																	
D8-10	LR 40+660 RT																	
D8-11	LL 40+700 RT																	
D8-12	LL 40+700 RT TO LL 40+710 RT			10					10									17
D9-1	LL 40+840 LT TO LL 40+840 RT			24						24								10
D9-2	LL 40+840 RT TO LR 40+846 LT			40		40												10
D9-3	LL 40+970 RT																	
D9-4	LL 40+972 RT			5					5									1,2,17
	SHEET TOTAL			820	62	435			31	209	91							

GENERAL NOTES:

10. (CONTINUED FROM PREVIOUS SHEET)

SPIRAL RIB STORM SEWER PIPE:
-PLAIN ALUMINUM OR PLAIN NARROW PITCH ALUMINUM, 76.2 mm THICK.
-PLAIN ALUMINIZED STEEL OR PLAIN NARROW PITCH ALUMINIZED STEEL, 76.2 mm THICK.
-TR. 2 GALVANIZED STEEL OR TR. 2 NARROW PITCH GALVANIZED STEEL, 0.064 IN. THICK. SEE TABLE 8-9.9 OF HYDRAULICS MANUAL.

THERMOPLASTIC STORM SEWER PIPE CONFORMING TO SECTION 9-05.19 OF THE STANDARD SPECIFICATIONS. SIZE NOT TO EXCEED 900 mm, COVER NOT TO EXCEED 4.5m.

11. USE CONCRETE PIPE ANCHORS. SEE SEE SPECIAL PROVISIONS. SEE STANDARD PLAN B-12.

12. SEE "RIPRAP OUTFALL PROTECTION DETAIL", SHEET DD-1.

13. BLOCKOUT REQUIRED IN WALL. SEE RETAINING WALL PLANS.

14. BEVELED END SECTION REQUIRED. SEE STANDARD PLAN B-7a.

15. SEE BRIDGE STRUCTURAL PLANS & DETAILS.

16. SEE DETENTION STRUCTURAL PLANS & DRAINAGE DETAILS.

17. USE SPECIFIED PIPE MATERIAL. ALTERNATIVES NOT ACCEPTABLE.

18. SEE STRUCTURAL EARTH WALL PLANS FOR COORDINATION AND TIMING.

19. USED VANED GRATE PER STD. PLAN B-2b.

20. SEE ECOLOGY DITCH DETAIL SHEET DD-2.

21. ALL ELEVATIONS TO FINISH GRADE SHOWN ON PROFILE SHEETS ARE PRIOR TO OVERLAY.

FOR "AS CONSTRUCTED PLANS" ONLY

		DATE		REVISION	BY
DESIGNED BY	F. TIMM	10/96			
ENTERED BY	A. CHAN	10/96			
CHECKED BY	R. THURMOND	10/96	1/8/97	Revise quantities from plain	FT
PROJ. ENGR.	R. KINOSHITA	10/96		pipe to Cl IV reinf. pipe for	
REGION ADM.	J. OKAMOTO	10/96		D6-7, D7-1, D9-2	

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-18

SHEET 136 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION	FURNISH AND INSTALL STEEL CASING 900 MM DIAM.	FURNISH AND INSTALL STEEL CASING 750 MM DIAM.	DUCTILE IRON STORM SEWER PIPE CLASS 50 450 MM DIAM	GRAVEL BACKFILL FOR WALL	TOPSOIL TYPE B		STRUCTURE EXCAVATION CLASS B INCL. HAUL	SHORING OR EXTRA EXCAVATION CLASS B	GRAVEL BACKFILL FOR FOUNDATION CLASS B	GRAVEL BACKFILL FOR DRAIN		CONC. CLASS 20	ADJUST MANHOLE	MANHOLE 1200 MM DIAM. TYPE 3	MANHOLE 1500 MM DIAM. TYPE 3		SEE GENERAL NOTES
		M	M	M	M3	M3		M3	M2	M3	M3		M3	EACH	EACH	EACH		
D6-5	L 39+977 RT							5	3	1								17
D6-6	L 39+866 RT TO L 39+977 RT							220	161	1			0.1					8,10
D6-7	L 40+070 LT							9	5	1								3,10
D6-8	L 39+977 RT TO L 40+070 RT							191	167	1			0.1					8,10
D6-9	L 39+901 RT																	
D6-10	L 39+903 RT							4	2	1								1,2,17
D6-11	L 39+963 RT							82	77	1								10,19
D6-12	NOT USED																	
D6-13	NOT USED																	
D6-14	L 39+985 LT													1				
D7-1	L 40+070 RT TO LR 40+162 LT							232	202	1			0.1					5,8,10
D7-2	LR 40+162 LT TO LR 40+255 LT							297	259	1			0.1					5,8,10
D7-3	LR 40+255 RT							3	3									1,2,3,17
D7-4	LR 40+255 LT TO LR 40+344 LT							254	226				0.1					5,10
D7-5	LR 40+378 RT																	
D7-6	LR 40+344 LT TO LR 40+420 LT							170	148	1			0.1					5,10
D7-7	LR 40+420 LT							3		1								17
D8-1	LR 40+480 RT																	
D8-2	LR 40+463 LT							4	2	1								17
D8-3	LR 40+420 LT TO LR 40+463 LT							88	78				0.1					5,10
D8-4	LR 40+575 RT																	
D8-5	LR 40+465 LT TO LR 40+555 LT							4	2	1								17
D8-6	LR 40+557 LT							186	165				0.1					5,10
D8-7	LL 40+480 LT																	
D8-8	LR 40+647 LT TO LR 40+648 LT							3	2	1								17
D8-9	LR 40+648 LT																	
D8-10	LR 40+660 RT																	
D8-11	LL 40+700 RT																	
D8-12	LL 40+700 RT TO LL 40+710 RT							13	3	1								17
D9-1	LL 40+840 LT TO LL 40+840 RT		24					11	6	1								10
D9-2	LL 40+840 RT TO LR 40+846 LT							176	133	1								10
D9-3	LL 40+970 RT																	
D9-4	LL 40+972 RT							11	4	1								1,2,17
	SHEET TOTAL		24					1966	1648	17			0.8	1				

GENERAL NOTES:

1. CONNECT TO EXISTING PIPE.
2. SEE "CONCRETE PIPE COLLAR DETAIL" SHEET DD-3.
3. CONNECT EXISTING STORM SEWER PIPE TO NEW CATCH BASIN OR MANHOLE.
4. SEE UNDERDRAIN DETAIL ON BARRIER DETAIL SHEET BD-11.
5. PLUG ABANDONED PIPE.
6. SEE ROADWAY SECTION "FILL TOE DETAIL", SHEET RS-8, FOR ADDITIONAL QUANTITY.
7. USE GRATE B PER STD. PLAN B-4b, WITH BOLT DOWN CAPACITY PER DETAIL SHEET D-11.
8. SEE ILLUMINATION AND POWER DISTRIBUTION PLAN SHEETS FOR INFORMATION REGARDING UTILITIES IN THIS AREA.
9. SEE BIO-FILTRATION DETAILS, SHEET DD-2.
10. ACCEPTABLE ALTERNATES FOR STORM SEWER PIPE ARE:

GALVANIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-TR. 2 WITH WELDED OR GASKETED LONGITUDINAL SEAMS, 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.

ALUMINIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-PLAIN WITH GASKETED OR WELDED AND REMETALIZED LONGITUDINAL SEAMS., 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.
SEE TABLE 8-9.2 OF HYDRAULICS MANUAL.

ALUMINUM STORM SEWER PIPE:
-TR. 5, 76.mm THICK.
-PLAIN WITH GASKETED LONGITUDINAL SEAMS 76.2 mm THICK, DIAMETER 3 INCHES LARGER THAN SPECIFIED.

(CONTINUED ON NEXT SHEET)

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96				
ENTERED BY	A. CHAN	10/96				
CHECKED BY	R. THURMOND	10/96				
PROJ. ENGR.	R. KINOSHITA	10/96				
REGION ADM.	J. OKAMOTO	10/96	1/8/97	Add item	FT	
		DATE	DATE	REVISION	BY	

REGION NO. 10 | STATE WASH | FED. AID. PROJ. NO.
JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-19

SHEET 137 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		MANHOLE ADDITIONAL HEIGHT 1200 MM DIAM. TYPE 3	MANHOLE ADDITIONAL HEIGHT 1500 MM DIAM. TYPE 3	ADJUST CATCH BASIN	BARREL ADJUST DRAINAGE STRUCTURE		LOCKING SOLID METAL COVER AND FRAME FOR CATCH BASIN	CONNECTION TO EXISTING DRAINAGE STRUCTURE	CONCRETE PIPE COLLAR	CONSTRUCTION GEOTEXTILE FOR UNDERGROUND DRAINAGE		ECOLOGY DITCH	MODIFY EXIST. C.I.P. GRATE INLET	CONNECTION TO EXIST.# C.I.P. GRATE INLET			SEE GENERAL NOTES
			M	M	EACH	EACH		EACH	EACH	EACH	M2		M	EACH	EACH			
D6-5	L 39+977 RT				1													17
D6-6	L 39+866 RT TO L 39+977 RT				1													8,10
D6-7	L 40+070 LT				1													3,10
D6-8	L 39+977 RT TO L 40+070 RT				1													8,10
D6-9	L 39+901 RT																	
D6-10	L 39+903 RT									1								1,2,17
D6-11	L 39+963 RT																	10,19
D6-12	NOT USED																	
D6-13	NOT USED																	
D6-14	L 39+985 LT																	
D7-1	L 40+070 RT TO LR 40+162 LT				1													5,8,10
D7-2	LR 40+162 LT TO LR 40+255 LT				1													5,8,10
D7-3	LR 40+255 RT									1								1,2,3,17
D7-4	LR 40+255 LT TO LR 40+344 LT				1	///			1									5,10
D7-5	LR 40+378 RT				1													
D7-6	LR 40+344 LT TO LR 40+420 LT				1													5,10
D7-7	LR 40+420 LT																	17
D8-1	LR 40+480 RT				1													
D8-2	LR 40+463 LT								1									17
D8-3	LR 40+420 LT TO LR 40+463 LT				///	///			///					1	3			5,10
D8-4	LR 40+575 RT				1													
D8-5	LR 40+465 LT TO LR 40+555 LT								1									17
D8-6	LR 40+557 LT					///			///					1	2			5,10
D8-7	LL 40+480 LT				1													
D8-8	LR 40+647 LT TO LR 40+648 LT								1									17
D8-9	LR 40+648 LT					///								1	1			
D8-10	LR 40+660 RT				1													
D8-11	LL 40+700 RT					///												
D8-12	LL 40+700 RT TO LL 40+710 RT								1									17
D9-1	LL 40+840 LT TO LL 40+840 RT																	10
D9-2	LL 40+840 RT TO LR 40+846 LT																	10
D9-3	LL 40+970 RT																	
D9-4	LL 40+972 RT										1							1,2,17
	SHEET TOTAL				14	5			7	3								

D8/9 NOT YET INSTALLED AS OF 01/21/98 - CHANGES SHOWN ARE PER CHANGE ORDER #3

GENERAL NOTES:

10. (CONTINUED FROM PREVIOUS SHEET)

SPIRAL RIB STORM SEWER PIPE:
-PLAIN ALUMINUM OR PLAIN NARROW PITCH ALUMINUM, 76.2 mm THICK.
-PLAIN ALUMINIZED STEEL OR PLAIN NARROW PITCH ALUMINIZED STEEL, 76.2 mm THICK.
-TR. 2 GALVANIZED STEEL OR TR. 2 NARROW PITCH GALVANIZED STEEL, 0.064 IN. THICK.
SEE TABLE 8-9.9 OF HYDRAULICS MANUAL.

THERMOPLASTIC STORM SEWER PIPE CONFORMING TO SECTION 9-05.19 OF THE STANDARD SPECIFICATIONS. SIZE NOT TO EXCEED 900 mm, COVER NOT TO EXCEED 4.5m.

11. USE CONCRETE PIPE ANCHORS. SEE SEE SPECIAL PROVISIONS. SEE STANDARD PLAN B-12.

12. SEE "RIPRAP OUTFALL PROTECTION DETAIL", SHEET DD-1.

13. BLOCKOUT REQUIRED IN WALL. SEE RETAINING WALL PLANS.

14. BEVELED END SECTION REQUIRED. SEE STANDARD PLAN B-7a.

15. SEE BRIDGE STRUCTURAL PLANS & DETAILS.

16. SEE DETENTION STRUCTURAL PLANS & DRAINAGE DETAILS.

17. USE SPECIFIED PIPE MATERIAL. ALTERNATIVES NOT ACCEPTABLE.

18. SEE STRUCTURAL EARTH WALL PLANS FOR COORDINATION AND TIMING.

19. USED VANED GRATE PER STD. PLAN B-2b.

20. SEE ECOLOGY DITCH DETAIL SHEET DD-2.

21. ALL ELEVATIONS TO FINISH GRADE SHOWN ON PROFILE SHEETS ARE PRIOR TO OVERLAY.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96				REGION NO.	STATE	FED. AID. PROJ. NO.
ENTERED BY	A. CHAN	10/96				10	WASH	
CHECKED BY	R. THURMOND	10/96				JOB NUMBER 96W035		
PROJ. ENGR.	R. KINOSHITA	10/96				CONTRACT NO. 5054		
REGION ADM.	J. OKAMOTO	10/96						
		DATE	DATE	REVISION	BY			

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-20

SHEET 138 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		REMOVING DRAINAGE STRUCTURE	DITCH EXCAVATION INCL. HAUL	GRATE INLET TYPE 1 OR 2	HAND PLACED RIPRAP		QUARRY SPALLS	UNDERDRAIN PIPE 150 MM DIAM.	CATCH BASIN TYPE 1	CATCH BASIN TYPE 2 1200 MM DIAM.		CATCH BASIN TYPE 2 1350 MM DIAM.	CATCH BASIN TYPE 2 1500 MM DIAM.	CATCH BASIN TYPE 2 1800 MM DIAM. WITH FLOW RESTRICTOR	CATCH BASIN TYPE 2 1800 MM DIAM. (MODIFIED)		SEE GENERAL NOTES
			EACH	M3	EACH	M3		M3	M	EACH	EACH		EACH	EACH	EACH	EACH		
D9-5	LR 40+846 LT										1							10
D9-6	LR 40+846 LT TO LR 40+846 RT		1															3
D9-7	LR 40+906 LT										1							17
D9-8	LR 40+906 LT										1							3,10
D9-9	LR 40+968 LT										1							3,17
D9-10	LR 40+968 LT																	10
D9-11	LR 41+029 LT										1							17
D9-12	LR 40+968 LT TO LR 41+029 LT										1							17
D9-13	LR 40+846 RT TO LR 40+898 RT																	10
D9-14	LR 40+898 RT																	10,16
D9-15	LL 40+840 LT TO LL 40+840 RT																	5
D9-16	NOT USED																	
D9-17	LR 40+845 RT TO LR 40+850 RT																	10,16
D9-18	LR 40+839 RT TO LR 40+846 RT		1															5,10
D9-19	LR 40+839 RT																	
D9-20	LL 40+840 RT		1															
D9-21	LR 40+770 LT TO LR 41+440 LT								661									
D9-22	LR 40+846 RT																	5
D9-23	NOT USED																	
D9-24	LR 40+846 LT TO LR 40+846 RT																	
D10-1	LL 41+076 RT		1															
D10-2	LL 41+080 RT										1							1,2,17
D10-3	LL 41+207 RT		1															
D10-4	LL 41+210 RT										1							1,2,17
D10-5	LR 41+343 LT										1							10
D10-6	LR 41+343 LT										1							1,2,17
D10-7	LR 41+243 LT TO LR 41+273 LT									1								17
D10-8	LR 41+243 LT				1													3,7,17
D10-9	LR 41+197 LT TO LR 41+243 LT																	17
D10-10	LR 41+197 LT									1								17
D10-11	LR 41+197 LT		1								1							3,10
D10-12	LR 41+196 RT TO LR 41+213 RT												1					3,10
D10-13	LR 41+213 RT																	10
D10-14	LR 41+172 RT TO LR 41+213 RT													1				10
	SHEET TOTAL		6		1				661	2	11		1	1				

FOR "AS CONSTRUCTED PLANS" ONLY

GENERAL NOTES:

1. CONNECT TO EXISTING PIPE.
2. SEE "CONCRETE PIPE COLLAR DETAIL" SHEET DD-3.
3. CONNECT EXISTING STORM SEWER PIPE TO NEW CATCH BASIN OR MANHOLE.
4. SEE UNDERDRAIN DETAIL ON BARRIER DETAIL SHEET BD-11.
5. PLUG ABANDONED PIPE.
6. SEE ROADWAY SECTION "FILL TOE DETAIL", SHEET RS-8, FOR ADDITIONAL QUANTITY.
7. USE GRATE B PER STD. PLAN B-4b, WITH BOLT DOWN CAPACITY PER DETAIL SHEET D-11.
8. SEE ILLUMINATION AND POWER DISTRIBUTION PLAN SHEETS FOR INFORMATION REGARDING UTILITIES IN THIS AREA.
9. SEE BIO-FILTRATION DETAILS, SHEET DD-2.
10. ACCEPTABLE ALTERNATES FOR STORM SEWER PIPE ARE:

GALVANIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-TR. 2 WITH WELDED OR GASKETED LONGITUDINAL SEAMS, 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.

ALUMINIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-PLAIN WITH GASKETED OR WELDED AND REMETALIZED LONGITUDINAL SEAMS., 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.
SEE TABLE 8-9.2 OF HYDRAULICS MANUAL.

ALUMINUM STORM SEWER PIPE:
-TR. 5, 76.mm THICK.
-PLAIN WITH GASKETED LONGITUDINAL SEAMS 76.2 mm THICK, DIAMETER 3 INCHES LARGER THAN SPECIFIED.

(CONTINUED ON NEXT SHEET)

		DATE		REVISION	BY
DESIGNED BY	F. TIMM	10/96			
ENTERED BY	A. CHAN	10/96			
CHECKED BY	R. THURMOND	10/96			
PROJ. ENGR.	R. KINOSHITA	10/96	1/8/97	Revise item to removing	FT
REGION ADM.	J. OKAMOTO	10/96		drainage structure	

REGION NO. 10 | STATE WASH | FED. AID. PROJ. NO.
JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-21

SHEET 139 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		CATCH BASIN TYPE 2 1800 MM DIAM. WITH FLOW SPLITTER	TESTING STORM SEWER PIPE	PLAIN CONC. STORM SEWER PIPE 300 MM DIAM.	PLAIN CONC. STORM SEWER PIPE 450 MM DIAM.		CL II REINF. CONC. STORM SEWER PIPE 1800 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 300 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 450 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 600 MM DIAM.		CL IV REINF. CONC. STORM SEWER PIPE 750 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 900 MM DIAM.	TR. 5 ST. STORM SEWER PIPE 1.6 MM TH. 300 MM DIAM.	TR. 5 ST. STORM SEWER PIPE 1.6 MM TH. 750MM DIAM		SEE GENERAL NOTES
			EACH	M	M	M		M	M	M	M		M	M	M	M		
D9-5	LR 40+846 LT					1												10
D9-6	LR 40+846 LT TO LR 40+846 RT									19								3
D9-7	LR 40+906 LT								1									17
D9-8	LR 40+906 LT																	3,10
D9-9	LR 40+968 LT								1									3,17
D9-10	LR 40+968 LT																	10
D9-11	LR 41+029 LT								1									17
D9-12	LR 40+968 LT TO LR 41+029 LT			62					62									17
D9-13	LR 40+846 RT TO LR 40+898 RT			52		52												10
D9-14	LR 40+898 RT					2												10,16
D9-15	LL 40+840 LT TO LL 40+840 RT																	5
D9-16	NOT USED																	
D9-17	LR 40+845 RT TO LR 40+850 RT			11		11												10,16
D9-18	LR 40+839 RT TO LR 40+846 RT																	5,10
D9-19	LR 40+839 RT																	
D9-20	LL 40+840 RT																	
D9-21	LR 40+770 LT TO LR 41+440 LT																	
D9-22	LR 40+846 RT																	5
D9-23	NOT USED																	
D9-24	LR 40+846 LT TO LR 40+846 RT																	
D10-1	LL 41+076 RT																	
D10-2	LL 41+080 RT			5					5									1,2,17
D10-3	LL 41+207 RT																	
D10-4	LL 41+210 RT			4					4									1,2,17
D10-5	LR 41+343 LT				1													10
D10-6	LR 41+343 LT															2		1,2,17
D10-7	LR 41+243 LT TO LR 41+273 LT			30					30									17
D10-8	LR 41+243 LT								2									3,7,17
D10-9	LR 41+197 LT TO LR 41+243 LT			46						46								17
D10-10	LR 41+197 LT								2									17
D10-11	LR 41+197 LT																	3,10
D10-12	LR 41+196 RT TO LR 41+213 RT			25									25					3,10
D10-13	LR 41+213 RT		1	4									4					10
D10-14	LR 41+172 RT TO LR 41+213 RT			41									41					10
	SHEET TOTAL		1	280	1	66			108	65			70			2		

GENERAL NOTES:

10. (CONTINUED FROM PREVIOUS SHEET)

SPIRAL RIB STORM SEWER PIPE:
-PLAIN ALUMINUM OR PLAIN NARROW PITCH ALUMINUM, 76.2 mm THICK.
-PLAIN ALUMINIZED STEEL OR PLAIN NARROW PITCH ALUMINIZED STEEL, 76.2 mm THICK.
-TR. 2 GALVANIZED STEEL OR TR. 2 NARROW PITCH GALVANIZED STEEL, 0.064 IN. THICK.
SEE TABLE 8-9.9 OF HYDRAULICS MANUAL.

THERMOPLASTIC STORM SEWER PIPE CONFORMING TO SECTION 9-05.19 OF THE STANDARD SPECIFICATIONS. SIZE NOT TO EXCEED 900 mm, COVER NOT TO EXCEED 4.5m.

11. USE CONCRETE PIPE ANCHORS. SEE SEE SPECIAL PROVISIONS. SEE STANDARD PLAN B-12.

12. SEE "RIPRAP OUTFALL PROTECTION DETAIL", SHEET DD-1.

13. BLOCKOUT REQUIRED IN WALL. SEE RETAINING WALL PLANS.

14. BEVELED END SECTION REQUIRED. SEE STANDARD PLAN B-7a.

15. SEE BRIDGE STRUCTURAL PLANS & DETAILS.

16. SEE DETENTION STRUCTURAL PLANS & DRAINAGE DETAILS.

17. USE SPECIFIED PIPE MATERIAL. ALTERNATIVES NOT ACCEPTABLE.

18. SEE STRUCTURAL EARTH WALL PLANS FOR COORDINATION AND TIMING.

19. USED VANED GRATE PER STD. PLAN B-2b.

20. SEE ECOLOGY DITCH DETAIL SHEET DD-2.

21. ALL ELEVATIONS TO FINISH GRADE SHOWN ON PROFILE SHEETS ARE PRIOR TO OVERLAY.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96				
ENTERED BY	A. CHAN	10/96				
CHECKED BY	R. THURMOND	10/96				
PROJ. ENGR.	R. KINOSHITA	10/96	1/8/97	Revise quantities on D9-5, D9-12, D9-13, D10-4	FT	
REGION ADM.	J. OKAMOTO	10/96				
		DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-22

SHEET 140 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION	FURNISH AND INSTALL STEEL CASING 900 MM DIAM.	FURNISH AND INSTALL STEEL CASING 750 MM DIAM.	DUCTILE IRON STORM SEWER PIPE CLASS 50 450 MM DIAM	GRAVEL BACKFILL FOR WALL	TOPSOIL TYPE B		STRUCTURE EXCAVATION CLASS B INCL. HAUL	SHORING OR EXTRA EXCAVATION CLASS B	GRAVEL BACKFILL FOR FOUNDATION CLASS B	GRAVEL BACKFILL FOR DRAIN		CONC. CLASS 20	ADJUST MANHOLE	MANHOLE 1200 MM DIAM. TYPE 3	MANHOLE 1500 MM DIAM. TYPE 3		SEE GENERAL NOTES
		M	M	M	M3	M3		M3	M2	M3	M3		M3	EACH	EACH	EACH		
D9-5	LR 40+846 LT							8	5	1								10
D9-6	LR 40+846 LT TO LR 40+846 RT		19					9	5	1								3
D9-7	LR 40+906 LT							7	4	1								17
D9-8	LR 40+906 LT							8	5	1								3,10
D9-9	LR 40+968 LT							7	4	1								3,17
D9-10	LR 40+968 LT																	10
D9-11	LR 41+029 LT							7	4	1								17
D9-12	LR 40+968 LT TO LR 41+029 LT							76	4	1								17
D9-13	LR 40+846 RT TO LR 40+898 RT							189	165	1					1			10
D9-14	LR 40+898 RT							21	13	1					1			10,16
D9-15	LL 40+840 LT TO LL 40+840 RT												0.1					5
D9-16	NOT USED																	
D9-17	LR 40+845 RT TO LR 40+850 RT							35	31									10,16
D9-18	LR 40+839 RT TO LR 40+846 RT												0.1					5,10
D9-19	LR 40+839 RT							17	10	1					1			
D9-20	LL 40+840 RT																	
D9-21	LR 40+770 LT TO LR 41+440 LT										203							
D9-22	LR 40+846 RT												0.2					5
D9-23	NOT USED																	
D9-24	LR 40+846 LT TO LR 40+846 RT												0.1					
D10-1	LL 41+076 RT																	
D10-2	LL 41+080 RT							12	9	1								1,2,17
D10-3	LL 41+207 RT																	
D10-4	LL 41+210 RT							12	9	1								1,2,17
D10-5	LR 41+343 LT							7	4	1								10
D10-6	LR 41+343 LT							8	4	1								1,2,17
D10-7	LR 41+243 LT TO LR 41+273 LT							38	3	1								17
D10-8	LR 41+243 LT							9	6	1								3,7,17
D10-9	LR 41+197 LT TO LR 41+243 LT							65	4	1								17
D10-10	LR 41+197 LT							3		1								17
D10-11	LR 41+197 LT							7	4	1								3,10
D10-12	LR 41+196 RT TO LR 41+213 RT							59	37	1								3,10
D10-13	LR 41+213 RT							30	15	1								10
D10-14	LR 41+172 RT TO LR 41+213 RT							134	83	1								10
	SHEET TOTAL		19					768	428	22	203		0.5		3			

GENERAL NOTES:

1. CONNECT TO EXISTING PIPE.
2. SEE "CONCRETE PIPE COLLAR DETAIL" SHEET DD-3.
3. CONNECT EXISTING STORM SEWER PIPE TO NEW CATCH BASIN OR MANHOLE.
4. SEE UNDERDRAIN DETAIL ON BARRIER DETAIL SHEET BD-11.
5. PLUG ABANDONED PIPE.
6. SEE ROADWAY SECTION "FILL TOE DETAIL", SHEET RS-8, FOR ADDITIONAL QUANTITY.
7. USE GRATE B PER STD. PLAN B-4b, WITH BOLT DOWN CAPACITY PER DETAIL SHEET D-11.
8. SEE ILLUMINATION AND POWER DISTRIBUTION PLAN SHEETS FOR INFORMATION REGARDING UTILITIES IN THIS AREA.
9. SEE BIO-FILTRATION DETAILS, SHEET DD-2.
10. ACCEPTABLE ALTERNATES FOR STORM SEWER PIPE ARE:

GALVANIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-TR. 2 WITH WELDED OR GASKETED LONGITUDINAL SEAMS, 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.

ALUMINIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-PLAIN WITH GASKETED OR WELDED AND REMETALIZED LONGITUDINAL SEAMS., 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.
SEE TABLE 8-9.2 OF HYDRAULICS MANUAL.

ALUMINUM STORM SEWER PIPE:
-TR. 5, 76.mm THICK.
-PLAIN WITH GASKETED LONGITUDINAL SEAMS 76.2 mm THICK, DIAMETER 3 INCHES LARGER THAN SPECIFIED.

(CONTINUED ON NEXT SHEET)

FOR "AS CONSTRUCTED" PLANS ONLY

DESIGNED BY	F. TIMM	10/96			
ENTERED BY	A. CHAN	10/96			
CHECKED BY	R. THURMOND	10/96			
PROJ. ENGR.	R. KINOSHITA	10/96	1/8/97	Add item;	FT
REGION ADM.	J. OKAMOTO	10/96		Revise quantity on D9-14.	
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	
JOB NUMBER 96W035		
CONTRACT NO. 5054		

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-23

SHEET 141 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		MANHOLE ADDITIONAL HEIGHT 1200 MM DIAM. TYPE 3	MANHOLE ADDITIONAL HEIGHT 1500 MM DIAM. TYPE 3	ADJUST CATCH BASIN	BARREL ADJUST DRAINAGE STRUCTURE		LOCKING SOLID METAL COVER AND FRAME FOR CATCH BASIN	CONNECTION TO EXISTING DRAINAGE STRUCTURE	CONCRETE PIPE COLLAR	CONSTRUCTION GEOTEXTILE FOR UNDERGROUND DRAINAGE		ECOLOGY DITCH	MODIFY EXIST. C.I.P. GRATE INLET	CONNECTION TO EXIST. C.I.P. GRATE INLET			SEE GENERAL NOTES
			M	M	EACH	EACH		EACH	EACH	EACH	M2		M	EACH	EACH			
D9-5	LR 40+846 LT																	10
D9-6	LR 40+846 LT TO LR 40+846 RT				1													3
D9-7	LR 40+906 LT																	17
D9-8	LR 40+906 LT				1													3,10
D9-9	LR 40+968 LT																	3,17
D9-10	LR 40+968 LT				~~1~~	~~1~~								1	2			10
D9-11	LR 41+029 LT																	17
D9-12	LR 40+968 LT TO LR 41+029 LT				1													17
D9-13	LR 40+846 RT TO LR 40+898 RT																	10
D9-14	LR 40+898 RT		1															10,16
D9-15	LL 40+840 LT TO LL 40+840 RT																	5
D9-16	NOT USED																	
D9-17	LR 40+845 RT TO LR 40+850 RT																	10,16
D9-18	LR 40+839 RT TO LR 40+846 RT																	5,10
D9-19	LR 40+839 RT		1															
D9-20	LL 40+840 RT																	
D9-21	LR 40+770 LT TO LR 41+440 LT										1309							
D9-22	LR 40+846 RT																	5
D9-23	NOT USED																	
D9-24	LR 40+846 LT TO LR 40+846 RT																	
D10-1	LL 41+076 RT																	
D10-2	LL 41+080 RT									1								1,2,17
D10-3	LL 41+207 RT																	
D10-4	LL 41+210 RT									1								1,2,17
D10-5	LR 41+343 LT																	10
D10-6	LR 41+343 LT				1					1								1,2,17
D10-7	LR 41+243 LT TO LR 41+273 LT				1													17
D10-8	LR 41+243 LT																	3,7,17
D10-9	LR 41+197 LT TO LR 41+243 LT				1													17
D10-10	LR 41+197 LT																	17
D10-11	LR 41+197 LT				1													3,10
D10-12	LR 41+196 RT TO LR 41+213 RT							1										3,10
D10-13	LR 41+213 RT							1		2								10
D10-14	LR 41+172 RT TO LR 41+213 RT							1										10
	SHEET TOTAL		2		8	1		3		5	1309							

D9/10 - NOT INSTALLED AS OF 01/21/98

CHANGES ARE PER CHANGE ORDER #3.

GENERAL NOTES:

10. (CONTINUED FROM PREVIOUS SHEET)

SPIRAL RIB STORM SEWER PIPE:
-PLAIN ALUMINUM OR PLAIN NARROW PITCH ALUMINUM, 76.2 mm THICK.
-PLAIN ALUMINIZED STEEL OR PLAIN NARROW PITCH ALUMINIZED STEEL, 76.2 mm THICK.
-TR. 2 GALVANIZED STEEL OR TR. 2 NARROW PITCH GALVANIZED STEEL, 0.064 IN. THICK.
SEE TABLE 8-9.9 OF HYDRAULICS MANUAL.

THERMOPLASTIC STORM SEWER PIPE CONFORMING TO SECTION 9-05.19 OF THE STANDARD SPECIFICATIONS. SIZE NOT TO EXCEED 900 mm, COVER NOT TO EXCEED 4.5m.

11. USE CONCRETE PIPE ANCHORS. SEE SEE SPECIAL PROVISIONS. SEE STANDARD PLAN B-12.

12. SEE "RIPRAP OUTFALL PROTECTION DETAIL", SHEET DD-1.

13. BLOCKOUT REQUIRED IN WALL. SEE RETAINING WALL PLANS.

14. BEVELED END SECTION REQUIRED. SEE STANDARD PLAN B-7a.

15. SEE BRIDGE STRUCTURAL PLANS & DETAILS.

16. SEE DETENTION STRUCTURAL PLANS & DRAINAGE DETAILS.

17. USE SPECIFIED PIPE MATERIAL. ALTERNATIVES NOT ACCEPTABLE.

18. SEE STRUCTURAL EARTH WALL PLANS FOR COORDINATION AND TIMING.

19. USED VANED GRATE PER STD. PLAN B-2b.

20. SEE ECOLOGY DITCH DETAIL SHEET DD-2.

21. ALL ELEVATIONS TO FINISH GRADE SHOWN ON PROFILE SHEETS ARE PRIOR TO OVERLAY.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96				REGION NO.	STATE
ENTERED BY	A. CHAN	10/96				10	WASH
CHECKED BY	R. THURMOND	10/96				JOB NUMBER	
PROJ. ENGR.	R. KINOSHITA	10/96				96W035	
REGION ADM.	J. OKAMOTO	10/96	1/8/97	Revise quantity on D9-13 & D9-14	FT	CONTRACT NO.	
		DATE	DATE	REVISION	BY	5059	

FED. AID. PROJ. NO.

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-24

SHEET 142 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		REMOVING DRAINAGE STRUCTURE EACH	DITCH EXCAVATION INCL. HAUL M3	GRATE INLET TYPE 1 OR 2 EACH	HAND PLACED RIPRAP M3		QUARRY SPALLS M3	UNDERDRAIN PIPE 150 MM DIAM. M	CATCH BASIN TYPE 1 EACH	CATCH BASIN TYPE 2 1200 MM DIAM. EACH		CATCH BASIN TYPE 2 1350 MM DIAM. EACH	CATCH BASIN TYPE 2 1500 MM DIAM. EACH	CATCH BASIN TYPE 2 1800 MM DIAM. WITH FLOW RESTRICTOR EACH	CATCH BASIN TYPE 2 1800 MM DIAM. (MODIFIED) EACH		SEE GENERAL NOTES
D10-15	LR 41+172 RT														1			10
D10-16	LR 41+152 RT TO LR 41+172 RT					0.8								1				12,17
D10-17	LR 41+172 RT TO LR 41+213 RT																	17
D10-18	LR 41+094 LT TO LR 41+122 LT										1							17
D10-19	LR 41+122 LT										1							17
D10-20	LR 41+029 LT TO LR 41+094 LT										1							17
D10-21	LR 41+197 LT		1															
D10-22	LR 41+236 RT TO LR 41+265 RT																	14,17
D11-1	LL 41+449 RT					0.8					1							12,17
D11-2	LL 41+496 RT		1															5
D11-3	LR 41+343 LT TO LR 41+441 LT										1							17
D11-4	LR 41+469 LT																	1,2,17
D11-5	LR 41+519 LT TO LR 41+523 LT																	1,2,17
D11-6	LR 41+500 RT										1							17
D11-7	LR 41+440 RT					0.8					1							12,17
D11-8	LR 41+608 LT								3									1,4
D11-9	LR 41+440 RT TO LR 41+497 RT																	20
D11-10	LR 41+519 LT		1															
D11-11	LR 41+441 LT TO LR 41+460 LT																	17
D12-1	LL 41+866 LT																	10
D12-2	L 41+916 CL																	10
D12-3	L 42+002 LT				1													7,10
D12-4	L 41+866 LT				1													7,11,17
D12-5	L 42+004 RT										1							10
D12-6	L 42+004 CL TO L 42+009 CL				1													7,10,16
D12-7	L 41+937 TO L 42+003							12										6,9
D12-8	LR 41+860 LT TO LR 41+865 LT																	
D12-9	LR 41+909 LT TO RT																	5
D12-10	L 41+937 LT TO L 42+004								70									4
D12-11	L 41+937 RT TO L 42+004								70									4
D13-1	L 41+029 CL TO L 42+062 CL																	3,10,16
D13-2	L 42+071 CL		1															5
D13-3	L 42+182 CL																	
D13-4	L 42+281 CL																	
D13-5	L 42+220 LT			5														
	SHEET TOTAL		4	5	3	2.4		12	143		8			1	1			

GENERAL NOTES:

1. CONNECT TO EXISTING PIPE.
2. SEE "CONCRETE PIPE COLLAR DETAIL" SHEET DD-3.
3. CONNECT EXISTING STORM SEWER PIPE TO NEW CATCH BASIN OR MANHOLE.
4. SEE UNDERDRAIN DETAIL ON BARRIER DETAIL SHEET BD-11.
5. PLUG ABANDONED PIPE.
6. SEE ROADWAY SECTION "FILL TOE DETAIL", SHEET RS-8, FOR ADDITIONAL QUANTITY.
7. USE GRATE B PER STD. PLAN B-4b, WITH BOLT DOWN CAPACITY PER DETAIL SHEET D-11.
8. SEE ILLUMINATION AND POWER DISTRIBUTION PLAN SHEETS FOR INFORMATION REGARDING UTILITIES IN THIS AREA.
9. SEE BIO-FILTRATION DETAILS, SHEET DD-2.
10. ACCEPTABLE ALTERNATES FOR STORM SEWER PIPE ARE:

GALVANIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-TR. 2 WITH WELDED OR GASKETED LONGITUDINAL SEAMS, 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.

ALUMINIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-PLAIN WITH GASKETED OR WELDED AND REMETALIZED LONGITUDINAL SEAMS., 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.
SEE TABLE 8-9.2 OF HYDRAULICS MANUAL.

ALUMINUM STORM SEWER PIPE:
-TR. 5, 76.mm THICK.
-PLAIN WITH GASKETED LONGITUDINAL SEAMS 76.2 mm THICK, DIAMETER 3 INCHES LARGER THAN SPECIFIED.

(CONTINUED ON NEXT SHEET)

FOR "AS CONSTRUCTED" PLANS ONLY

DESIGNED BY	F. TIMM	10/96			
ENTERED BY	A. CHAN	10/96	1/8/97	Add note 10 to D13-1;	FT
CHECKED BY	R. THURMOND	10/96		Add note 17 to D11-4;	
PROJ. ENGR.	R. KINOSHITA	10/96		Revise item to removing	
REGION ADM.	J. OKAMOTO	10/96		drainage structure	
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-25

SHEET 143 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		CATCH BASIN TYPE 2 1800 MM DIAM. WITH FLOW SPLITTER	TESTING STORM SEWER PIPE	PLAIN CONC. STORM SEWER PIPE 300 MM DIAM.	PLAIN CONC. STORM SEWER PIPE 450 MM DIAM.		CL II REINF. CONC. STORM SEWER PIPE 1800 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 300 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 450 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 600 MM DIAM.		CL IV REINF. CONC. STORM SEWER PIPE 750 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 900 MM DIAM.	TR. 5 ST. STORM SEWER PIPE 1.6 MM TH. 300 MM DIAM.	TR. 5 ST. STORM SEWER PIPE 1.6 MM TH. 750MM DIAM		SEE GENERAL NOTES
			EACH	M	M	M		M	M	M	M		M	M	M	M		
D10-15	LR 41+172 RT			4							4							10
D10-16	LR 41+152 RT TO LR 41+172 RT			22									22					12,17
D10-17	LR 41+172 RT TO LR 41+213 RT			41				39			2							17
D10-18	LR 41+094 LT TO LR 41+122 LT			28					28									17
D10-19	LR 41+122 LT								1									17
D10-20	LR 41+029 LT TO LR 41+094 LT			65					65									17
D10-21	LR 41+197 LT																	
D10-22	LR 41+236 RT TO LR 41+265 RT								29									14,17
D11-1	LL 41+449 RT			6					6									12,17
D11-2	LL 41+496 RT																	5
D11-3	LR 41+343 LT TO LR 41+441 LT			97					97									17
D11-4	LR 41+469 LT															4		1,2,17
D11-5	LR 41+519 LT TO LR 41+523 LT			~~8~~ 11							~~6~~ 11							1,2,17
D11-6	LR 41+500 RT			3							3							17
D11-7	LR 41+440 RT				14													12,17
D11-8	LR 41+608 LT																	1,4
D11-9	LR 41+440 RT TO LR 41+497 RT																	20
D11-10	LR 41+519 LT																	
D11-11	LR 41+441 LT TO LR 41+460 LT			20					20									17
D12-1	LL 41+866 LT																	10
D12-2	L 41+916 CL																	10
D12-3	L 42+002 LT			26						26								7,10
D12-4	L 41+866 LT			12									12					7,11,17
D12-5	L 42+004 RT			22						22								10
D12-6	L 42+004 CL TO L 42+009 CL			5		5												7,10,16
D12-7	L 41+937 TO L 42+003																	6,9
D12-8	LR 41+860 LT TO LR 41+865 LT																	
D12-9	LR 41+909 LT TO RT																	5
D12-10	L 41+937 LT TO L 42+004																	4
D12-11	L 41+937 RT TO L 42+004																	4
D13-1	L 41+029 CL TO L 42+062 CL			33		33												3,10,16
D13-2	L 42+071 CL																	5
D13-3	L 42+182 CL																	
D13-4	L 42+281 CL																	
D13-5	L 42+220 LT																	
	SHEET TOTAL			~~390~~ 395	14	38		39	246	48	~~18~~ 20		34			4		

GENERAL NOTES:

10. (CONTINUED FROM PREVIOUS SHEET)

SPIRAL RIB STORM SEWER PIPE:
-PLAIN ALUMINUM OR PLAIN NARROW PITCH ALUMINUM, 76.2 mm THICK.
-PLAIN ALUMINIZED STEEL OR PLAIN NARROW PITCH ALUMINIZED STEEL, 76.2 mm THICK.
-TR. 2 GALVANIZED STEEL OR TR. 2 NARROW PITCH GALVANIZED STEEL, 0.064 IN. THICK.
SEE TABLE 8-9.9 OF HYDRAULICS MANUAL.

THERMOPLASTIC STORM SEWER PIPE CONFORMING TO SECTION 9-05.19 OF THE STANDARD SPECIFICATIONS. SIZE NOT TO EXCEED 900 mm, COVER NOT TO EXCEED 4.5m.

11. USE CONCRETE PIPE ANCHORS. SEE SEE SPECIAL PROVISIONS. SEE STANDARD PLAN B-12.

12. SEE "RIPRAP OUTFALL PROTECTION DETAIL", SHEET DD-1.

13. BLOCKOUT REQUIRED IN WALL. SEE RETAINING WALL PLANS.

14. BEVELED END SECTION REQUIRED. SEE STANDARD PLAN B-7a.

15. SEE BRIDGE STRUCTURAL PLANS & DETAILS.

16. SEE DETENTION STRUCTURAL PLANS & DRAINAGE DETAILS.

17. USE SPECIFIED PIPE MATERIAL. ALTERNATIVES NOT ACCEPTABLE.

18. SEE STRUCTURAL EARTH WALL PLANS FOR COORDINATION AND TIMING.

19. USED VANED GRATE PER STD. PLAN B-2b.

20. SEE ECOLOGY DITCH DETAIL SHEET DD-2.

21. ALL ELEVATIONS TO FINISH GRADE SHOWN ON PROFILE SHEETS ARE PRIOR TO OVERLAY.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96			
ENTERED BY	A. CHAN	10/96			
CHECKED BY	R. THURMOND	10/96	1/8/97	Revise quantities on D11-4, D13-1;	FT
PROJ. ENGR.	R. KINOSHITA	10/96		Add note 10 to D13-1;	
REGION ADM.	J. OKAMOTO	10/96		Add note 17 to D11-4	
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-26

SHEET 144 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION	FURNISH AND INSTALL STEEL CASING 900 MM DIAM. M	FURNISH AND INSTALL STEEL CASING 750 MM DIAM. M	DUCTILE IRON STORM SEWER PIPE CLASS 50 450 MM DIAM M	GRAVEL BACKFILL FOR WALL M3	TOPSOIL TYPE B M3		STRUCTURE EXCAVATION CLASS B INCL. HAUL M3	SHORING OR EXTRA EXCAVATION CLASS B M2	GRAVEL BACKFILL FOR FOUNDATION CLASS B M3	GRAVEL BACKFILL FOR DRAIN M3		CONC. CLASS 20 M3	ADJUST MANHOLE EACH	MANHOLE 1200 MM DIAM. TYPE 3 EACH	MANHOLE 1500 MM DIAM. TYPE 3 EACH		SEE GENERAL NOTES
D10-15	LR 41+172 RT							23	12	1								10
D10-16	LR 41+152 RT TO LR 41+172 RT							70	33	1								12,17
D10-17	LR 41+172 RT TO LR 41+213 RT							324	104				1					17
D10-18	LR 41+094 LT TO LR 41+122 LT							31	3	1								17
D10-19	LR 41+122 LT							6	4	1								17
D10-20	LR 41+029 LT TO LR 41+094 LT							72	4	1								17
D10-21	LR 41+197 LT																	
D10-22	LR 41+236 RT TO LR 41+265 RT							13										14,17
D11-1	LL 41+449 RT							13	4	1								12,17
D11-2	LL 41+496 RT												0.1					5
D11-3	LR 41+343 LT TO LR 41+441 LT							84	3	1								17
D11-4	LR 41+469 LT							18	11									1,2,17
D11-5	LR 41+519 LT TO LR 41+523 LT							~~15~~ 24	~~10~~ 14	1								1,2,17
D11-6	LR 41+500 RT							12	7	1								17
D11-7	LR 41+440 RT							28	23	1								12,17
D11-8	LR 41+608 LT										1							1,4
D11-9	LR 41+440 RT TO LR 41+497 RT																	20
D11-10	LR 41+519 LT																	
D11-11	LR 41+441 LT TO LR 41+460 LT							16										17
D12-1	LL 41+866 LT																	10
D12-2	L 41+916 CL																	10
D12-3	L 42+002 LT		26					7	4	1								7,10
D12-4	L 41+866 LT							33	21	1								7,11,17
D12-5	L 42+004 RT		22					11	7	1								10
D12-6	L 42+004 CL TO L 42+009 CL							24	19	1								7,10,16
D12-7	L 41+937 TO L 42+003					57												6,9
D12-8	LR 41+860 LT TO LR 41+865 LT												0.2					4
D12-9	LR 41+909 LT TO RT												0.2					4
D12-10	L 41+937 LT TO L 42+004										21							4
D12-11	L 41+937 RT TO L 42+004										21							4
D13-1	L 41+029 CL TO L 42+062 CL							164	137	1						1		3,10,16
D13-2	L 42+071 CL												0.1					5
D13-3	L 42+182 CL																	
D13-4	L 42+281 CL																	
D13-5	L 42+220 LT																	
	SHEET TOTAL		48			57		~~964~~ 993	~~406~~ 410	15	43		1.6			1		

GENERAL NOTES:

1. CONNECT TO EXISTING PIPE.
2. SEE "CONCRETE PIPE COLLAR DETAIL" SHEET DD-3.
3. CONNECT EXISTING STORM SEWER PIPE TO NEW CATCH BASIN OR MANHOLE.
4. SEE UNDERDRAIN DETAIL ON BARRIER DETAIL SHEET BD-11.
5. PLUG ABANDONED PIPE.
6. SEE ROADWAY SECTION "FILL TOE DETAIL", SHEET RS-8, FOR ADDITIONAL QUANTITY.
7. USE GRATE B PER STD. PLAN B-4b, WITH BOLT DOWN CAPACITY PER DETAIL SHEET D-11.
8. SEE ILLUMINATION AND POWER DISTRIBUTION PLAN SHEETS FOR INFORMATION REGARDING UTILITIES IN THIS AREA.
9. SEE BIO-FILTRATION DETAILS, SHEET DD-2.
10. ACCEPTABLE ALTERNATES FOR STORM SEWER PIPE ARE:

GALVANIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-TR. 2 WITH WELDED OR GASKETED LONGITUDINAL SEAMS, 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.

ALUMINIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-PLAIN WITH GASKETED OR WELDED AND REMETALIZED LONGITUDINAL SEAMS., 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.
SEE TABLE 8-9.2 OF HYDRAULICS MANUAL.

ALUMINUM STORM SEWER PIPE:
-TR. 5, 76.mm THICK.
-PLAIN WITH GASKETED LONGITUDINAL SEAMS 76.2 mm THICK, DIAMETER 3 INCHES LARGER THAN SPECIFIED.

(CONTINUED ON NEXT SHEET)

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96				
ENTERED BY	A. CHAN	10/96				
CHECKED BY	R. THURMOND	10/96	1/8/97	Add item;	FT	
PROJ. ENGR.	R. KINOSHITA	10/96		Add note 10 to D13-1;		
REGION ADM.	J. OKAMOTO	10/96		Add note 17 to D11-4		
		DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-27

SHEET 145 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		MANHOLE ADDITIONAL HEIGHT 1200 MM DIAM. TYPE 3	MANHOLE ADDITIONAL HEIGHT 1500 MM DIAM. TYPE 3	ADJUST CATCH BASIN	BARREL ADJUST DRAINAGE STRUCTURE		LOCKING SOLID METAL COVER AND FRAME FOR CATCH BASIN	CONNECTION TO EXISTING DRAINAGE STRUCTURE	CONCRETE PIPE COLLAR	CONSTRUCTION GEOTEXTILE FOR UNDERGROUND DRAINAGE		ECOLOGY DITCH	MODIFY EXIST. C.I.P. GRATE INLET	CONNECTION TO EXIST. C.I.P. GRATE INLET	DROP INLET TYPE 1		SEE GENERAL NOTES
			M	M	EACH	EACH		EACH	EACH	EACH	M2		M	EACH	EACH	EACH		
D10-15	LR 41+172 RT							1		1								10
D10-16	LR 41+152 RT TO LR 41+172 RT							1										12,17
D10-17	LR 41+172 RT TO LR 41+213 RT																	17
D10-18	LR 41+094 LT TO LR 41+122 LT				1													17
D10-19	LR 41+122 LT																	17
D10-20	LR 41+029 LT TO LR 41+094 LT				1													17
D10-21	LR 41+197 LT																	
D10-22	LR 41+236 RT TO LR 41+265 RT																	14,17
D11-1	LL 41+449 RT																	12,17
D11-2	LL 41+496 RT																	5
D11-3	LR 41+343 LT TO LR 41+441 LT				1													17
D11-4	LR 41+469 LT									1								1,2,17
D11-5	LR 41+519 LT TO LR 41+523 LT									1						/		1,2,17
D11-6	LR 41+500 RT																	17
D11-7	LR 41+440 RT																	12,17
D11-8	LR 41+608 LT										6							1,4
D11-9	LR 41+440 RT TO LR 41+497 RT												59					20
D11-10	LR 41+519 LT																	
D11-11	LR 41+441 LT TO LR 41+460 LT																	17
D12-1	LL 41+866 LT				1													10
D12-2	L 41+916 CL													1				10
D12-3	L 42+002 LT																	7,10
D12-4	L 41+866 LT								1									7,11,17
D12-5	L 42+004 RT																	10
D12-6	L 42+004 CL TO L 42+009 CL																	7,10,16
D12-7	L 41+937 TO L 42+003																	6,9
D12-8	LR 41+860 LT TO LR 41+865 LT																	
D12-9	LR 41+909 LT TO RT																	5
D12-10	L 41+937 LT TO L 42+004										139							4
D12-11	L 41+937 RT TO L 42+004										139							4
D13-1	L 41+029 CL TO L 42+062 CL				2													3,10,16
D13-2	L 42+071 CL																	5
D13-3	L 42+182 CL													1				
D13-4	L 42+281 CL													1				
D13-5	L 42+220 LT																	
	SHEET TOTAL				2	4		2	1	3	284		59	3		/		

GENERAL NOTES:

10. (CONTINUED FROM PREVIOUS SHEET)

SPIRAL RIB STORM SEWER PIPE:
-PLAIN ALUMINUM OR PLAIN NARROW PITCH ALUMINUM, 76.2 mm THICK.
-PLAIN ALUMINIZED STEEL OR PLAIN NARROW PITCH ALUMINIZED STEEL, 76.2 mm THICK.
-TR. 2 GALVANIZED STEEL OR TR. 2 NARROW PITCH GALVANIZED STEEL, 0.064 IN. THICK.
SEE TABLE 8-9.9 OF HYDRAULICS MANUAL.

THERMOPLASTIC STORM SEWER PIPE CONFORMING TO SECTION 9-05.19 OF THE STANDARD SPECIFICATIONS. SIZE NOT TO EXCEED 900 mm, COVER NOT TO EXCEED 4.5m.

11. USE CONCRETE PIPE ANCHORS. SEE SEE SPECIAL PROVISIONS. SEE STANDARD PLAN B-12.

12. SEE "RIPRAP OUTFALL PROTECTION DETAIL", SHEET DD-1.

13. BLOCKOUT REQUIRED IN WALL. SEE RETAINING WALL PLANS.

14. BEVELED END SECTION REQUIRED. SEE STANDARD PLAN B-7a.

15. SEE BRIDGE STRUCTURAL PLANS & DETAILS.

16. SEE DETENTION STRUCTURAL PLANS & DRAINAGE DETAILS.

17. USE SPECIFIED PIPE MATERIAL. ALTERNATIVES NOT ACCEPTABLE.

18. SEE STRUCTURAL EARTH WALL PLANS FOR COORDINATION AND TIMING.

19. USED VANED GRATE PER STD. PLAN B-2b.

20. SEE ECOLOGY DITCH DETAIL SHEET DD-2.

21. ALL ELEVATIONS TO FINISH GRADE SHOWN ON PROFILE SHEETS ARE PRIOR TO OVERLAY.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96			
ENTERED BY	A. CHAN	10/96			
CHECKED BY	R. THURMOND	10/96			
PROJ. ENGR.	R. KINOSHITA	10/96	1/8/97	Add note 10 to D13-1;	FT
REGION ADM.	J. OKAMOTO	10/96		Add note 17 to D11-4	
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-28

SHEET 146 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		REMOVING DRAINAGE STRUCTURE	DITCH EXCAVATION INCL. HAUL	GRATE INLET TYPE 1 OR 2	HAND PLACED RIPRAP		QUARRY SPALLS	UNDERDRAIN PIPE 150 MM DIAM.	CATCH BASIN TYPE 1	CATCH BASIN TYPE 2 1200 MM DIAM.		CATCH BASIN TYPE 2 1350 MM DIAM.	CATCH BASIN TYPE 2 1500 MM DIAM.	CATCH BASIN TYPE 2 1800 MM DIAM. WITH FLOW RESTRICTOR	CATCH BASIN TYPE 2 1800 MM DIAM. (MODIFIED)		SEE GENERAL NOTES
			EACH	M3	EACH	M3		M3	M	EACH	EACH		EACH	EACH	EACH	EACH		
D13-6	L 42+225 TO L 42+240																	13,14,17
D13-7	L 42+240LT			125														
D13-8	L 42+125 RT																	
D13-9	L 42+220 RT																	
D13-10	L 42+310 RT																	
D14-1	L 42+333 CL TO L 42+382 CL										1							3,10
D14-2	L 42+382 CL TO L 42+387 LT		1								1							17
D14-3	L 42+387 LT TO L 42+471 LT										1							15,17
D14-4	L 42+471 LT TO L 42+475 CL										1							17
D14-5	L 42+475 CL TO L 42+520 CL													1				17
D14-6	L 42+520 CL TO L 42+605 CL										1							17
D14-7	L 42+530 RT		1															5
D14-8	L 42+605 CL TO L 42+632 LT													1				10
D14-9	L 42+632 LT TO L 42+690 LT										1							10
D14-10	L 42+610 RT																	
D14-11	L 42+619 LT TO L 42+633 LT																	2,10,16
D14-12	L 42+649 CL		1															5
D14-13	L 42+640 RT																	
D14-14	AR-4 2+575 RT									1								3,19
D14-15	L 42+605 LT									1								10
D14-16	L 42+619 RT																	
D14-17	AR-4 2+570 RT		1															5
D14-18	L 42+412 RT				1													7,13,17
D14-19	L 42+423 RT																	1
D14-20	L 42+460 RT TO L 42+475 CL								17									15
D14-21	L 42+472 LT TO L 42+476 LT								6									15
D14-22	L 42+387 LT TO L 42+393 LT								7									15
D14-23	L 42+372 RT TO L 42+382 CL								13									15
D14-24	L 42+390 LT TO L 42+412 LT								25									
D14-25	AR-4 2+660 RT																	
D14-26	L 42+350 RT																	
D14-27	L 42+471 RT TO L 42+475 LT									1								17
D14-28	L 42+475 LT TO L 42+476 LT									1								17
	SHEET TOTAL		4	125	1				68	4	6			2				

D14/02 - PIPE HAS BEEN INSTALLED - NO STRUCTURES AS OF 01/21/98
CHANGES ARE PER CHANGE ORDER #3

GENERAL NOTES:

1. CONNECT TO EXISTING PIPE.
2. SEE "CONCRETE PIPE COLLAR DETAIL" SHEET DD-3.
3. CONNECT EXISTING STORM SEWER PIPE TO NEW CATCH BASIN OR MANHOLE.
4. SEE UNDERDRAIN DETAIL ON BARRIER DETAIL SHEET BD-11.
5. PLUG ABANDONED PIPE.
6. SEE ROADWAY SECTION "FILL TOE DETAIL", SHEET RS-8, FOR ADDITIONAL QUANTITY.
7. USE GRATE B PER STD. PLAN B-4b, WITH BOLT DOWN CAPACITY PER DETAIL SHEET D-11.
8. SEE ILLUMINATION AND POWER DISTRIBUTION PLAN SHEETS FOR INFORMATION REGARDING UTILITIES IN THIS AREA.
9. SEE BIO-FILTRATION DETAILS, SHEET DD-2.
10. ACCEPTABLE ALTERNATES FOR STORM SEWER PIPE ARE:

GALVANIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-TR. 2 WITH WELDED OR GASKETED LONGITUDINAL SEAMS, 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.

ALUMINIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-PLAIN WITH GASKETED OR WELDED AND REMETALIZED LONGITUDINAL SEAMS., 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.
SEE TABLE 8-9.2 OF HYDRAULICS MANUAL.

ALUMINUM STORM SEWER PIPE:
-TR. 5, 76.mm THICK.
-PLAIN WITH GASKETED LONGITUDINAL SEAMS 76.2 mm THICK, DIAMETER 3 INCHES LARGER THAN SPECIFIED.

(CONTINUED ON NEXT SHEET)

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96	1/8/97	Add note 10 to D14-11;	FT	REGION NO. 10	STATE WASH	FED. AID. PROJ. NO.
ENTERED BY	A. CHAN	10/96		Add note 17 to D14-18;				
CHECKED BY	R. THURMOND	10/96		Add note 1 to D14-19;		JOB NUMBER 96W035		
PROJ. ENGR.	R. KINOSHITA	10/96		Revise item to removing				
REGION ADM.	J. OKAMOTO	10/96		drainage structure		CONTRACT NO. 5054		
		DATE	DATE	REVISION	BY			

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-29

SHEET 147 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		CATCH BASIN TYPE 2 1800 MM DIAM. WITH FLOW SPLITTER	TESTING STORM SEWER PIPE	PLAIN CONC. STORM SEWER PIPE 300 MM DIAM.	PLAIN CONC. STORM SEWER PIPE 450 MM DIAM.		CL II REINF. CONC. STORM SEWER PIPE 1800 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 300 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 450 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 600 MM DIAM.		CL.IV REINF. CONC. STORM SEWER PIPE 750 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 900 MM DIAM.	TR. 5 ST. STORM SEWER PIPE 1.6 MM TH. 300 MM DIAM.	TR. 5 ST. STORM SEWER PIPE 1.6 MM TH. 750MM DIAM		SEE GENERAL NOTES
			EACH	M	M	M		M	M	M	M		M	M	M	M		
D13-6	L 42+225 TO L 42+240								15									13,14,17
D13-7	L 42+240LT																	
D13-8	L 42+125 RT																	
D13-9	L 42+220 RT																	
D13-10	L 42+310 RT																	
D14-1	L 42+333 CL TO L 42+382 CL			49		49												3,10
D14-2	L 42+382 CL TO L 42+387 LT			6		6												17
D14-3	L 42+387 LT TO L 42+471 LT																	15,17
D14-4	L 42+471 LT TO L 42+475 CL			6						6								17
D14-5	L 42+475 CL TO L 42+520 CL			45						45								17
D14-6	L 42+520 CL TO L 42+605 CL			84						84								17
D14-7	L 42+530 RT																	5
D14-8	L 42+605 CL TO L 42+632 LT			27							27							10
D14-9	L 42+632 LT TO L 42+690 LT			57							57							10
D14-10	L 42+610 RT																	
D14-11	L 42+619 LT TO L 42+633 LT			14							14							2,10,16
D14-12	L 42+649 CL																	5
D14-13	L 42+640 RT																	
D14-14	AR-4 2+575 RT																	3,19
D14-15	L 42+605 LT			32						32								10
D14-16	L 42+619 RT																	
D14-17	AR-4 2+570 RT																	5
D14-18	L 42+412 RT			15					15									7,13,17
D14-19	L 42+423 RT																	1
D14-20	L 42+460 RT TO L 42+475 CL																	15
D14-21	L 42+472 LT TO L 42+476 LT																	15
D14-22	L 42+387 LT TO L 42+393 LT																	15
D14-23	L 42+372 RT TO L 42+382 CL																	15
D14-24	L 42+390 LT TO L 42+412 LT																	4
D14-25	AR-4 2+660 RT																	
D14-26	L 42+350 RT																	
D14-27	L 42+471 RT TO L 42+475 LT			4					4									17
D14-28	L 42+475 LT TO L 42+476 LT								3									17
	SHEET TOTAL			339		55			37	167	98							

GENERAL NOTES:

10. (CONTINUED FROM PREVIOUS SHEET)

SPIRAL RIB STORM SEWER PIPE:
-PLAIN ALUMINUM OR PLAIN NARROW PITCH ALUMINUM, 76.2 mm THICK.
-PLAIN ALUMINIZED STEEL OR PLAIN NARROW PITCH ALUMINIZED STEEL, 76.2 mm THICK.
-TR. 2 GALVANIZED STEEL OR TR. 2 NARROW PITCH GALVANIZED STEEL, 0.064 IN. THICK.
SEE TABLE 8-9.9 OF HYDRAULICS MANUAL.

THERMOPLASTIC STORM SEWER PIPE CONFORMING TO SECTION 9-05.19 OF THE STANDARD SPECIFICATIONS. SIZE NOT TO EXCEED 900 mm, COVER NOT TO EXCEED 4.5m.

11. USE CONCRETE PIPE ANCHORS. SEE SEE SPECIAL PROVISIONS. SEE STANDARD PLAN B-12.

12. SEE "RIPRAP OUTFALL PROTECTION DETAIL", SHEET DD-1.

13. BLOCKOUT REQUIRED IN WALL. SEE RETAINING WALL PLANS.

14. BEVELED END SECTION REQUIRED. SEE STANDARD PLAN B-7a.

15. SEE BRIDGE STRUCTURAL PLANS & DETAILS.

16. SEE DETENTION STRUCTURAL PLANS & DRAINAGE DETAILS.

17. USE SPECIFIED PIPE MATERIAL. ALTERNATIVES NOT ACCEPTABLE.

18. SEE STRUCTURAL EARTH WALL PLANS FOR COORDINATION AND TIMING.

19. USED VANED GRATE PER STD. PLAN B-2b.

20. SEE ECOLOGY DITCH DETAIL SHEET DD-2.

21. ALL ELEVATIONS TO FINISH GRADE SHOWN ON PROFILE SHEETS ARE PRIOR TO OVERLAY.

FOR "AS CONSTRUCTED PLANS" ONLY.

DESIGNED BY	F. TIMM	10/96	1/8/97	Revise quantities on D14-11,	FT	REGION NO. 10	STATE WASH	FED. AID. PROJ. NO.
ENTERED BY	A. CHAN	10/96		D14-18;				
CHECKED BY	R. THURMOND	10/96		Add note 10 to D14-11;		JOB NUMBER 96W035		
PROJ. ENGR.	R. KINOSHITA	10/96		Add note 17 to D14-18;				
REGION ADM.	J. OKAMOTO	10/96		Add note 1 to D14-19		CONTRACT NO. 5054		
		DATE	DATE	REVISION	BY			

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-30

SHEET 148 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION	FURNISH AND INSTALL STEEL CASING 900 MM DIAM.	FURNISH AND INSTALL STEEL CASING 750 MM DIAM.	DUCTILE IRON STORM SEWER PIPE CLASS 50 450 MM DIAM	GRAVEL BACKFILL FOR WALL	TOPSOIL TYPE B		STRUCTURE EXCAVATION CLASS B INCL. HAUL	SHORING OR EXTRA EXCAVATION CLASS B	GRAVEL BACKFILL FOR FOUNDATION CLASS B	GRAVEL BACKFILL FOR DRAIN		CONC. CLASS 20	ADJUST MANHOLE	MANHOLE 1200 MM DIAM. TYPE 3	MANHOLE 1500 MM DIAM. TYPE 3		SEE GENERAL NOTES
		M	M	M	M3	M3		M3	M2	M3	M3		M3	EACH	EACH	EACH		
D13-6	L 42+225 TO L 42+240																	13,14,17
D13-7	L 42+240LT																	
D13-8	L 42+125 RT																	
D13-9	L 42+220 RT																	
D13-10	L 42+310 RT																	
D14-1	L 42+333 CL TO L 42+382 CL							84	72	1								3,10
D14-2	L 42+382 CL TO L 42+387 LT							6	6									17
D14-3	L 42+387 LT TO L 42+471 LT			86				9	5	1								15,17
D14-4	L 42+471 LT TO L 42+475 CL							11	4	1								17
D14-5	L 42+475 CL TO L 42+520 CL							71	60	1								17
D14-6	L 42+520 CL TO L 42+605 CL							131	114	1								17
D14-7	L 42+530 RT												0.1					5
D14-8	L 42+605 CL TO L 42+632 LT							79	56	1								10
D14-9	L 42+632 LT TO L 42+690 LT							208	152	1								10
D14-10	L 42+610 RT																	
D14-11	L 42+619 LT TO L 42+633 LT							87	64									2,10,16
D14-12	L 42+649 CL												0.1					5
D14-13	L 42+640 RT																	
D14-14	AR-4 2+575 RT							3	2	1								3,19
D14-15	L 42+605 LT		32					3	2	1								10
D14-16	L 42+619 RT																	
D14-17	AR-4 2+570 RT												0.1					5
D14-18	L 42+412 RT							35	30	1								7,13,17
D14-19	L 42+423 RT							21	11	1						1		1
D14-20	L 42+460 RT TO L 42+475 CL				28						5							15
D14-21	L 42+472 LT TO L 42+476 LT				17						2							15
D14-22	L 42+387 LT TO L 42+393 LT				19						2							15
D14-23	L 42+372 RT TO L 42+382 CL				36						4							15
D14-24	L 42+390 LT TO L 42+412 LT										7							4
D14-25	AR-4 2+660 RT																	
D14-26	L 42+350 RT																	
D14-27	L 42+471 RT TO L 42+475 LT							8	7	1								17
D14-28	L 42+475 LT TO L 42+476 LT							6	5	1								17
	SHEET TOTAL		32	86	100			762	590	13	20		0.3			1		

GENERAL NOTES:

1. CONNECT TO EXISTING PIPE.
2. SEE "CONCRETE PIPE COLLAR DETAIL" SHEET DD-3.
3. CONNECT EXISTING STORM SEWER PIPE TO NEW CATCH BASIN OR MANHOLE.
4. SEE UNDERDRAIN DETAIL ON BARRIER DETAIL SHEET BD-11.
5. PLUG ABANDONED PIPE.
6. SEE ROADWAY SECTION "FILL TOE DETAIL", SHEET RS-8, FOR ADDITIONAL QUANTITY.
7. USE GRATE B PER STD. PLAN B-4b, WITH BOLT DOWN CAPACITY PER DETAIL SHEET D-11.
8. SEE ILLUMINATION AND POWER DISTRIBUTION PLAN SHEETS FOR INFORMATION REGARDING UTILITIES IN THIS AREA.
9. SEE BIO-FILTRATION DETAILS, SHEET DD-2.
10. ACCEPTABLE ALTERNATES FOR STORM SEWER PIPE ARE:

GALVANIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-TR. 2 WITH WELDED OR GASKETED LONGITUDINAL SEAMS, 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.

ALUMINIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-PLAIN WITH GASKETED OR WELDED AND REMETALIZED LONGITUDINAL SEAMS., 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.
SEE TABLE 8-9.2 OF HYDRAULICS MANUAL.

ALUMINUM STORM SEWER PIPE:
-TR. 5, 76.mm THICK.
-PLAIN WITH GASKETED LONGITUDINAL SEAMS 76.2 mm THICK, DIAMETER 3 INCHES LARGER THAN SPECIFIED.

(CONTINUED ON NEXT SHEET)

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96	1/8/97	Revise quantity on D14-18, D14-19	FT
ENTERED BY	A. CHAN	10/96		Add item	
CHECKED BY	R. THURMOND	10/96		Add note 10 to D14-11;	
PROJ. ENGR.	R. KINOSHITA	10/96		Add note 17 to D14-18;	
REGION ADM.	J. OKAMOTO	10/96		Add note 1 to D14-19	
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-31

SHEET 149 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		MANHOLE ADDITIONAL HEIGHT 1200 MM DIAM. TYPE 3	MANHOLE ADDITIONAL HEIGHT 1500 MM DIAM. TYPE 3	ADJUST CATCH BASIN	BARREL ADJUST DRAINAGE STRUCTURE		LOCKING SOLID METAL COVER AND FRAME FOR CATCH BASIN	CONNECTION TO EXISTING DRAINAGE STRUCTURE	CONCRETE PIPE COLLAR	CONSTRUCTION GEOTEXTILE FOR UNDERGROUND DRAINAGE		ECOLOGY DITCH					SEE GENERAL NOTES
			M	M	EACH	EACH		EACH	EACH	EACH	M2		M					
D13-6	L 42+225 TO L 42+240																	13,14,17
D13-7	L 42+240LT																	
D13-8	L 42+125 RT				1													
D13-9	L 42+220 RT				1													
D13-10	L 42+310 RT				1													
D14-1	L 42+333 CL TO L 42+382 CL																	3,10
D14-2	L 42+382 CL TO L 42+387 LT																	17
D14-3	L 42+387 LT TO L 42+471 LT				1				1									15,17
D14-4	L 42+471 LT TO L 42+475 CL				1													17
D14-5	L 42+475 CL TO L 42+520 CL																	17
D14-6	L 42+520 CL TO L 42+605 CL																	17
D14-7	L 42+530 RT																	5
D14-8	L 42+605 CL TO L 42+632 LT																	10
D14-9	L 42+632 LT TO L 42+690 LT				1													10
D14-10	L 42+610 RT				1													
D14-11	L 42+619 LT TO L 42+633 LT								1	1								2,10,16
D14-12	L 42+649 CL																	5
D14-13	L 42+640 RT				1													
D14-14	AR-4 2+575 RT				1													3,19
D14-15	L 42+605 LT				1													10
D14-16	L 42+619 RT					1												
D14-17	AR-4 2+570 RT																	5
D14-18	L 42+412 RT				1													7,13,17
D14-19	L 42+423 RT			0.5														1
D14-20	L 42+460 RT TO L 42+475 CL										34							15
D14-21	L 42+472 LT TO L 42+476 LT										12							15
D14-22	L 42+387 LT TO L 42+393 LT										14							15
D14-23	L 42+372 RT TO L 42+382 CL										26							15
D14-24	L 42+390 LT TO L 42+412 LT										50							4
D14-25	AR-4 2+660 RT				1													
D14-26	L 42+350 RT				1													
D14-27	L 42+471 RT TO L 42+475 LT																	17
D14-28	L 42+475 LT TO L 42+476 LT																	17
	SHEET TOTAL			0.5	13				2	1	136							

GENERAL NOTES:

10. (CONTINUED FROM PREVIOUS SHEET)

SPIRAL RIB STORM SEWER PIPE:
-PLAIN ALUMINUM OR PLAIN NARROW PITCH ALUMINUM, 76.2 mm THICK.
-PLAIN ALUMINIZED STEEL OR PLAIN NARROW PITCH ALUMINIZED STEEL, 76.2 mm THICK.
-TR. 2 GALVANIZED STEEL OR TR. 2 NARROW PITCH GALVANIZED STEEL, 0.064 IN. THICK.
SEE TABLE 8-9.9 OF HYDRAULICS MANUAL.

THERMOPLASTIC STORM SEWER PIPE CONFORMING TO SECTION 9-05.19 OF THE STANDARD SPECIFICATIONS. SIZE NOT TO EXCEED 900 mm, COVER NOT TO EXCEED 4.5m.

11. USE CONCRETE PIPE ANCHORS. SEE SEE SPECIAL PROVISIONS. SEE STANDARD PLAN B-12.

12. SEE "RIPRAP OUTFALL PROTECTION DETAIL", SHEET DD-1.

13. BLOCKOUT REQUIRED IN WALL. SEE RETAINING WALL PLANS.

14. BEVELED END SECTION REQUIRED. SEE STANDARD PLAN B-7a.

15. SEE BRIDGE STRUCTURAL PLANS & DETAILS.

16. SEE DETENTION STRUCTURAL PLANS & DRAINAGE DETAILS.

17. USE SPECIFIED PIPE MATERIAL. ALTERNATIVES NOT ACCEPTABLE.

18. SEE STRUCTURAL EARTH WALL PLANS FOR COORDINATION AND TIMING.

19. USED VANED GRATE PER STD. PLAN B-2b.

20. SEE ECOLOGY DITCH DETAIL SHEET DD-2.

21. ALL ELEVATIONS TO FINISH GRADE SHOWN ON PROFILE SHEETS ARE PRIOR TO OVERLAY.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96			
ENTERED BY	A. CHAN	10/96	1/8/97	Revise quantity on D14-18, D14-19	FT
CHECKED BY	R. THURMOND	10/96		Add note 10 to D14-11;	
PROJ. ENGR.	R. KINOSHITA	10/96		Add note 17 to D14-18;	
REGION ADM.	J. OKAMOTO	10/96		Add note 1 to D14-19	
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-32

SHEET 150 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		REMOVING DRAINAGE STRUCTURE EACH	DITCH EXCAVATION INCL. HAUL M3	GRATE INLET TYPE 1 OR 2 EACH	HAND PLACED RIPRAP M3		QUARRY SPALLS M3	UNDERDRAIN PIPE 150 MM DIAM. M	CATCH BASIN TYPE 1 EACH	CATCH BASIN TYPE 2 1200 MM DIAM. EACH		CATCH BASIN TYPE 2 1350 MM DIAM. EACH	CATCH BASIN TYPE 2 1500 MM DIAM. EACH	CATCH BASIN TYPE 2 1800 MM DIAM. WITH FLOW RESTRICTOR EACH	CATCH BASIN TYPE 2 1800 MM DIAM. (MODIFIED) EACH		SEE GENERAL NOTES
D15-1	L 42+690 LT										1							10,16
D15-2	L 42+619 RT TO L 42+710 CL				1													3,7,10
D15-3	L 42+801 CL																	10
D15-4	AR-4 2+694 LT																	
D15-5	AR-4 2+762 LT																	
D15-6	AR-4 2+761 RT																	
D2-28	L 38+587 RT TO L 38+589 RT				1													7,10
D2-29	L 38+589 RT TO L 38+591 RT				1													7,10
D2-30	L 38+593 RT TO L 38+591 RT				1													7,10
	SHEET TOTAL				4			12	1304	17	1		1	13	2	1		
	PROJECT TOTAL		44	130	67	78					59							

GENERAL NOTES:

1. CONNECT TO EXISTING PIPE.
2. SEE "CONCRETE PIPE COLLAR DETAIL" SHEET DD-3.
3. CONNECT EXISTING STORM SEWER PIPE TO NEW CATCH BASIN OR MANHOLE.
4. SEE UNDERDRAIN DETAIL ON BARRIER DETAIL SHEET BD-11.
5. PLUG ABANDONED PIPE.
6. SEE ROADWAY SECTION "FILL TOE DETAIL", SHEET RS-8, FOR ADDITIONAL QUANTITY.
7. USE GRATE B PER STD. PLAN B-4b, WITH BOLT DOWN CAPACITY PER DETAIL SHEET D-11.
8. SEE ILLUMINATION AND POWER DISTRIBUTION PLAN SHEETS FOR INFORMATION REGARDING UTILITIES IN THIS AREA.
9. SEE BIO-FILTRATION DETAILS, SHEET DD-2.
10. ACCEPTABLE ALTERNATES FOR STORM SEWER PIPE ARE:

GALVANIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-TR. 2 WITH WELDED OR GASKETED LONGITUDINAL SEAMS, 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.

ALUMINIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-PLAIN WITH GASKETED OR WELDED AND REMETALIZED LONGITUDINAL SEAMS., 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.
SEE TABLE 8-9.2 OF HYDRAULICS MANUAL.

ALUMINUM STORM SEWER PIPE:
-TR. 5, 76.mm THICK.
-PLAIN WITH GASKETED LONGITUDINAL SEAMS 76.2 mm THICK, DIAMETER 3 INCHES LARGER THAN SPECIFIED.

(CONTINUED ON NEXT SHEET)

FOR "AS CONSTRUCTED" PLANS" ONLY

		DATE	DATE	REVISION	BY
DESIGNED BY	F. TIMM	10/96			
ENTERED BY	A. CHAN	10/96	1/8/97	Add new structures;	FT
CHECKED BY	R. THURMOND	10/96		Revise project totals	
PROJ. ENGR.	R. KINOSHITA	10/96		Revise item to removing	
REGION ADM.	J. OKAMOTO	10/96		drainage structure	

REGION NO. 10 | STATE WASH | FED. AID. PROJ. NO.

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-33

SHEET 151 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		CATCH BASIN TYPE 2 1800 MM DIAM. WITH FLOW SPLITTER	TESTING STORM SEWER PIPE	PLAIN CONC. STORM SEWER PIPE 300 MM DIAM.	PLAIN CONC. STORM SEWER PIPE 450 MM DIAM.		CL II REINF. CONC. STORM SEWER PIPE 1800 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 300 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 450 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 600 MM DIAM.		CL.IV REINF. CONC. STORM SEWER PIPE 750 MM DIAM.	CL. IV REINF. CONC. STORM SEWER PIPE 900 MM DIAM.	TR. 5 ST. STORM SEWER PIPE 1.6 MM TH. 300 MM DIAM.	TR. 5 ST. STORM SEWER PIPE 1.6 MM TH. 750MM DIAM		SEE GENERAL NOTES
			EACH	M	M	M		M	M	M	M		M	M	M	M		
D15-1	L 42+690 LT										1							10,16
D15-2	L 42+619 RT TO L 42+710 CL			21	21													3,7,10
D15-3	L 42+801 CL																	10
D15-4	AR-4 2+694 LT																	
D15-5	AR-4 2+762 LT																	
D15-6	AR-4 2+761 RT																	
D2-28	L 38+587 RT TO L 38+589 RT														2			7,10
D2-29	L 38+589 RT TO L 38+591 RT														2			7,10
D2-30	L 38+593 RT TO L 38+591 RT														2			7,10
SHEET TOTAL				21	21						1				6			
PROJECT TOTAL			2	3984	151	639		39	1344	999	601		132	298	15	6		

GENERAL NOTES:

10. (CONTINUED FROM PREVIOUS SHEET)

SPIRAL RIB STORM SEWER PIPE:
-PLAIN ALUMINUM OR PLAIN NARROW PITCH ALUMINUM, 76.2 mm THICK.
-PLAIN ALUMINIZED STEEL OR PLAIN NARROW PITCH ALUMINIZED STEEL, 76.2 mm THICK.
-TR. 2 GALVANIZED STEEL OR TR. 2 NARROW PITCH GALVANIZED STEEL, 0.064 IN. THICK.
SEE TABLE 8-9.9 OF HYDRAULICS MANUAL.

THERMOPLASTIC STORM SEWER PIPE CONFORMING TO SECTION 9-05.19 OF THE STANDARD SPECIFICATIONS. SIZE NOT TO EXCEED 900 mm, COVER NOT TO EXCEED 4.5m.

11. USE CONCRETE PIPE ANCHORS. SEE SEE SPECIAL PROVISIONS. SEE STANDARD PLAN B-12.

12. SEE "RIPRAP OUTFALL PROTECTION DETAIL", SHEET DD-1.

13. BLOCKOUT REQUIRED IN WALL. SEE RETAINING WALL PLANS.

14. BEVELED END SECTION REQUIRED. SEE STANDARD PLAN B-7a.

15. SEE BRIDGE STRUCTURAL PLANS & DETAILS.

16. SEE DETENTION STRUCTURAL PLANS & DRAINAGE DETAILS.

17. USE SPECIFIED PIPE MATERIAL. ALTERNATIVES NOT ACCEPTABLE.

18. SEE STRUCTURAL EARTH WALL PLANS FOR COORDINATION AND TIMING.

19. USED VANED GRATE PER STD. PLAN B-2b.

20. SEE ECOLOGY DITCH DETAIL SHEET DD-2.

21. ALL ELEVATIONS TO FINISH GRADE SHOWN ON PROFILE SHEETS ARE PRIOR TO OVERLAY.

FOR "AS CONSTRUCTED PLANS" ONLY

		DATE	DATE	REVISION	BY
DESIGNED BY	F. TIMM	10/96			
ENTERED BY	A. CHAN	10/96			
CHECKED BY	R. THURMOND	10/96			
PROJ. ENGR.	R. KINOSHITA	10/96	1/8/97	Add new structures;	FT
REGION ADM.	J. OKAMOTO	10/96		Revise project totals	

REGION NO. 10 | STATE WASH | FED. AID. PROJ. NO.

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-34

SHEET 152 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION	FURNISH AND INSTALL STEEL CASING 900 MM DIAM.	FURNISH AND INSTALL STEEL CASING 750 MM DIAM.	DUCTILE IRON STORM SEWER PIPE CLASS 50 450 MM DIAM	GRAVEL BACKFILL FOR WALL	TOPSOIL TYPE B		STRUCTURE EXCAVATION CLASS B INCL. HAUL	SHORING OR EXTRA EXCAVATION CLASS B	GRAVEL BACKFILL FOR FOUNDATION CLASS B	GRAVEL BACKFILL FOR DRAIN		CONC. CLASS 20	ADJUST MANHOLE	MANHOLE 1200 MM DIAM. TYPE 3	MANHOLE 1500 MM DIAM. TYPE 3		SEE GENERAL NOTES
		M	M	M	M3	M3		M3	M2	M3	M3		M3	EACH	EACH	EACH		
D15-1	L 42+690 LT							14	8	1								10,16
D15-2	L 42+619 RT TO L 42+710 CL							39	36	1								3,7,10
D15-3	L 42+801 CL																	10
D15-4	AR-4 2+694 LT																	
D15-5	AR-4 2+762 LT																	
D15-6	AR-4 2+761 RT																	
D2-28	L 38+587 RT TO L 38+589 RT							6	3	1								7,10
D2-29	L 38+589 RT TO L 38+591 RT							6	4	1								7,10
D2-30	L 38+593 RT TO L 38+591 RT							6	4	1								7,10
	SHEET TOTAL							71	55	5								
	PROJECT TOTAL	17	123	86	100	57		9856	6536	168	398		4.9	1	3	2		

GENERAL NOTES:

1. CONNECT TO EXISTING PIPE.
2. SEE "CONCRETE PIPE COLLAR DETAIL" SHEET DD-3.
3. CONNECT EXISTING STORM SEWER PIPE TO NEW CATCH BASIN OR MANHOLE.
4. SEE UNDERDRAIN DETAIL ON BARRIER DETAIL SHEET BD-11.
5. PLUG ABANDONED PIPE.
6. SEE ROADWAY SECTION "FILL TOE DETAIL", SHEET RS-8, FOR ADDITIONAL QUANTITY.
7. USE GRATE B PER STD. PLAN B-4b, WITH BOLT DOWN CAPACITY PER DETAIL SHEET D-11.
8. SEE ILLUMINATION AND POWER DISTRIBUTION PLAN SHEETS FOR INFORMATION REGARDING UTILITIES IN THIS AREA.
9. SEE BIO-FILTRATION DETAILS, SHEET DD-2.
10. ACCEPTABLE ALTERNATES FOR STORM SEWER PIPE ARE:

GALVANIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-TR. 2 WITH WELDED OR GASKETED LONGITUDINAL SEAMS, 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.

ALUMINIZED STEEL STORM SEWER PIPE:
-TR. 5, 1.6 mm THICK.
-PLAIN WITH GASKETED OR WELDED AND REMETALIZED LONGITUDINAL SEAMS., 1.6 mm THICK, DIAMETER 76.2 mm LARGER THAN SPECIFIED.
SEE TABLE 8-9.2 OF HYDRAULICS MANUAL.

ALUMINUM STORM SEWER PIPE:
-TR. 5, 76.mm THICK.
-PLAIN WITH GASKETED LONGITUDINAL SEAMS 76.2 mm THICK, DIAMETER 3 INCHES LARGER THAN SPECIFIED.

(CONTINUED ON NEXT SHEET)

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	10/96				
ENTERED BY	A. CHAN	10/96				
CHECKED BY	R. THURMOND	10/96	1/8/97	Add new structures;	FT	
PROJ. ENGR.	R. KINOSHITA	10/96		Add item;		
REGION ADM.	J. OKAMOTO	10/96		Revise project totals		
		DATE	DATE	REVISION	BY	

REGION NO. 10 | STATE WASH | FED. AID. PROJ. NO.

JOB NUMBER 96W035

CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

STRUCTURE NOTES

SN-35

SHEET 153 OF 663 SHEETS

STRUCTURE NOTES

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION		MANHOLE ADDITIONAL HEIGHT 1200 MM DIAM. TYPE 3	MANHOLE ADDITIONAL HEIGHT 1500 MM DIAM. TYPE 3	ADJUST CATCH BASIN	BARREL ADJUST DRAINAGE STRUCTURE		LOCKING SOLID METAL COVER AND FRAME FOR CATCH BASIN	CONNECTION TO EXISTING DRAINAGE STRUCTURE	CONCRETE PIPE COLLAR	CONSTRUCTION GEOTEXTILE FOR UNDERGROUND DRAINAGE		ECOLOGY DITCH					SEE GENERAL NOTES
			M	M	EACH	EACH		EACH	EACH	EACH	M2		M					
D15-1	L 42+690 LT																	10,16
D15-2	L 42+619 RT TO L 42+710 CL																	3,7,10
D15-3	L 42+801 CL				1													10
D15-4	AR-4 2+694 LT				1													
D15-5	AR-4 2+762 LT				1													
D15-6	AR-4 2+761 RT				1													
D2-28	L 38+587 RT TO L 38+589 RT				1													7,10
D2-29	L 38+589 RT TO L 38+591 RT				1													7,10
D2-30	L 38+593 RT TO L 38+591 RT				1													7,10
	SHEET TOTAL				7													
	PROJECT TOTAL		2.5	2.5	136	13		10	10	23	2584		59					

GENERAL NOTES:

10. (CONTINUED FROM PREVIOUS SHEET)

SPIRAL RIB STORM SEWER PIPE:
-PLAIN ALUMINUM OR PLAIN NARROW PITCH ALUMINUM, 76.2 mm THICK.
-PLAIN ALUMINIZED STEEL OR PLAIN NARROW PITCH ALUMINIZED STEEL, 76.2 mm THICK.
-TR. 2 GALVANIZED STEEL OR TR. 2 NARROW PITCH GALVANIZED STEEL, 0.064 IN. THICK.
SEE TABLE 8-9.9 OF HYDRAULICS MANUAL.

THERMOPLASTIC STORM SEWER PIPE CONFORMING TO SECTION 9-05.19 OF THE STANDARD SPECIFICATIONS. SIZE NOT TO EXCEED 900 mm, COVER NOT TO EXCEED 4.5m.

11. USE CONCRETE PIPE ANCHORS. SEE SEE SPECIAL PROVISIONS. SEE STANDARD PLAN B-12.

12. SEE "RIPRAP OUTFALL PROTECTION DETAIL", SHEET DD-1.

13. BLOCKOUT REQUIRED IN WALL. SEE RETAINING WALL PLANS.

14. BEVELED END SECTION REQUIRED. SEE STANDARD PLAN B-7a.

15. SEE BRIDGE STRUCTURAL PLANS & DETAILS.

16. SEE DETENTION STRUCTURAL PLANS & DRAINAGE DETAILS.

17. USE SPECIFIED PIPE MATERIAL. ALTERNATIVES NOT ACCEPTABLE.

18. SEE STRUCTURAL EARTH WALL PLANS FOR COORDINATION AND TIMING.

19. USED VANED GRATE PER STD. PLAN B-2b.

20. SEE ECOLOGY DITCH DETAIL SHEET DD-2.

21. ALL ELEVATIONS TO FINISH GRADE SHOWN ON PROFILE SHEETS ARE PRIOR TO OVERLAY.

FOR "AS CONSTRUCTED PLANS" ONLY

		DATE		REVISION	BY
DESIGNED BY	F. TIMM	10/96			
ENTERED BY	A. CHAN	10/96			
CHECKED BY	R. THURMOND	10/96			
PROJ. ENGR.	R. KINOSHITA	10/96	178797	Add new structures;	FT
REGION ADM.	J. OKAMOTO	10/96		Revise project totals	

REGION NO.	STATE	FED. AID. PROJ. NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL & ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C

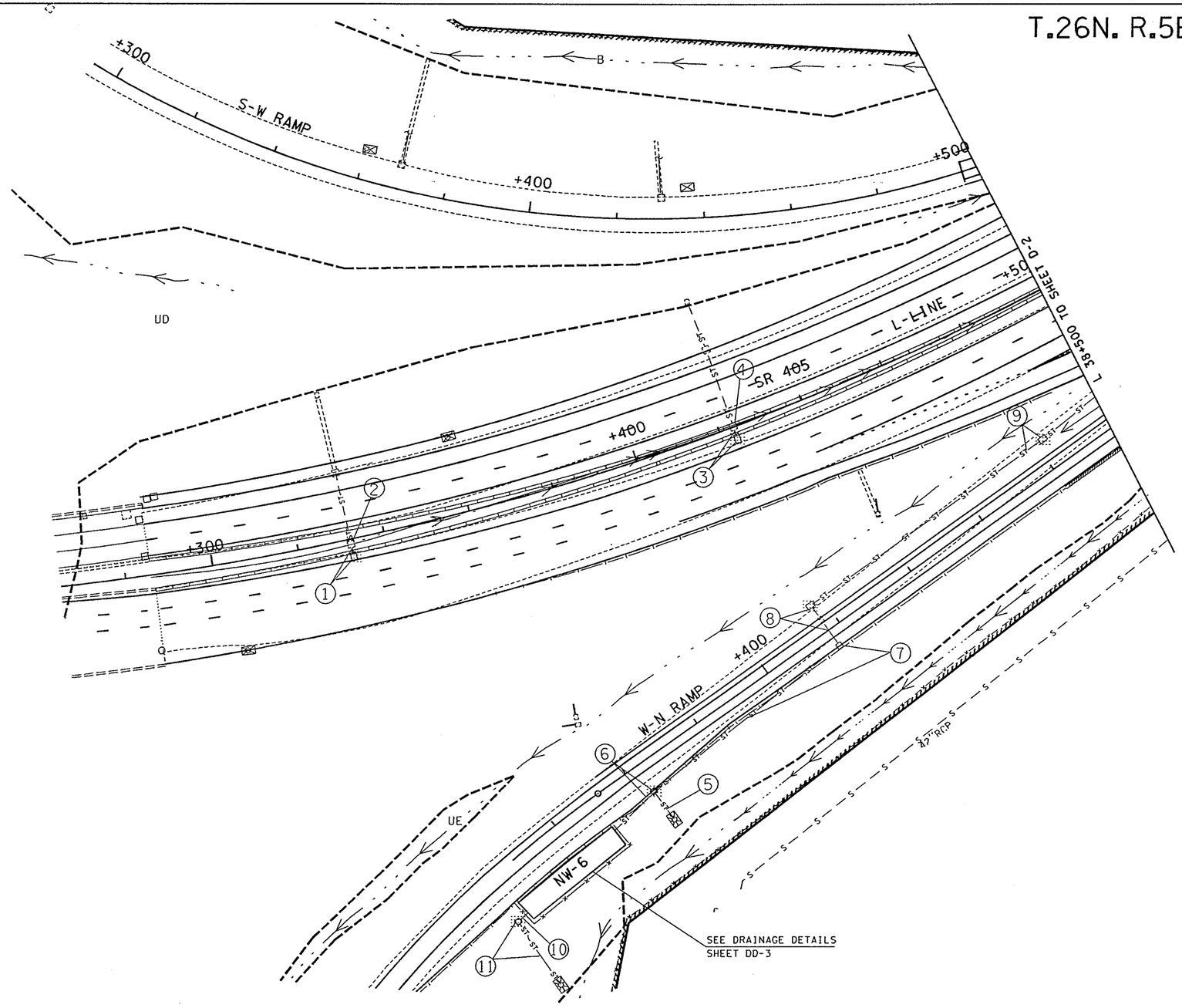
STRUCTURE NOTES

SN-36

SHEET 154 OF 663 SHEETS

PLOT: \412347\A\6F1U-6.PLT
PLOT6 06 JAN 97 s:\412347\12095\o12095\95drain1.dgn $(username)
Mon Jan 06 14:18:04 1997 D412347

T.26N. R.5E. W.M.



FOR "AS CONSTRUCTED PLANS" ONLY

LEGEND

	EXISTING	PROPOSED
RIPRAP OUTFALL PROT.		⊠
CATCH BASIN	□	□
GRATE INLET	□	□
STORM DRAIN	—ST— —ST— —ST—	—ST—ST—ST—
RETAINING WALL		
DRAIN LINE	—D— —D— —D—	—D—D—D—
DITCH LINE	- - - → -	→
CULVERT		
TRAFFIC BARRIER		
FENCE	—x— —x— —x—	—x—x—x—
GUARD RAIL	—I—I—I—I—I—	—I—I—I—I—
DETENTION VAULT/POND		
SANITARY SEWER	—S— —S— —S—	—S—S—S—
WATER LINE	—W— —W— —W—	—W—W—W—
RIGHT OF WAY BOUNDARY		
WETLAND EDGE BOUNDARY		

0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

					REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
					10	WASH		
DESIGNED BY F. TIMM	6/25/96				JOB NUMBER			
ENTERED BY B. SAVILLE	6/25/96				96W035			
CHECKED BY R.THURMOND	6/25/96							
PROJ. ENGR. R.KINOSHITA	6/25/96	1/8/97	REV. SYMBOLOGY OF		CONTRACT NO.			
REGIONAL ADM. J. OKAMOTO	6/25/96		STR.NTS.,1,3,6,8,9,11	FT	5054			
	DATE	DATE	REVISION	BY				

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE PLANS

D-1

SHEET 155 OF 663 SHEETS

PLOT7 06 JAN 97 s:\412347\12095\ol2095\95drain1.dgn $(username)
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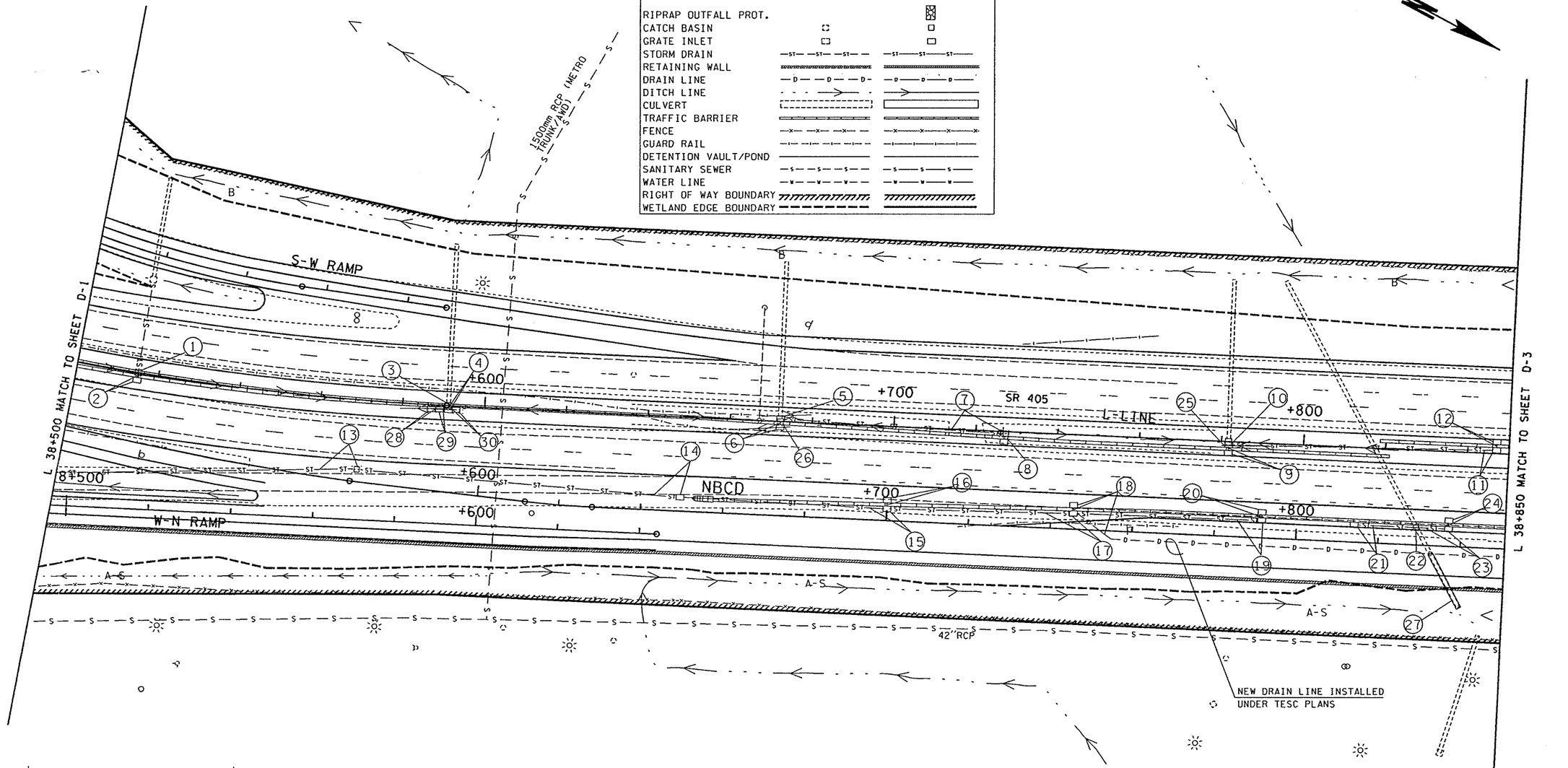
Mon Jan 06 14:18:26 1997 D412347 T:\

T.26N. R.5E. W.M.

LEGEND

	EXISTING	PROPOSED
RIPRAP OUTFALL PROT.		
CATCH BASIN		
GRATE INLET		
STORM DRAIN	—ST—ST—ST—	—ST—ST—ST—
RETAINING WALL		
DRAIN LINE	—D—D—D—	—D—D—D—
DITCH LINE		
CULVERT		
TRAFFIC BARRIER		
FENCE	—x—x—x—	—x—x—x—
GUARD RAIL		
DETENTION VAULT/POND		
SANITARY SEWER	—S—S—S—	—S—S—S—
WATER LINE	—W—W—W—	—W—W—W—
RIGHT OF WAY BOUNDARY		
WETLAND EDGE BOUNDARY		



0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	6/25/96			
ENTERED BY	B. SAVILLE	6/25/96			
CHECKED BY	R.THURMOND	6/25/96	1/9/97	REV. SYMBOLOGY OF	FT
PROJ. ENGR.	R.KINOSHITA	6/25/96		STR.NTS.. 7,13,22,28,	
REGIONAL ADM.	J. OKAMOTO	6/25/96		29,30	
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5084

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE PLANS

D-2

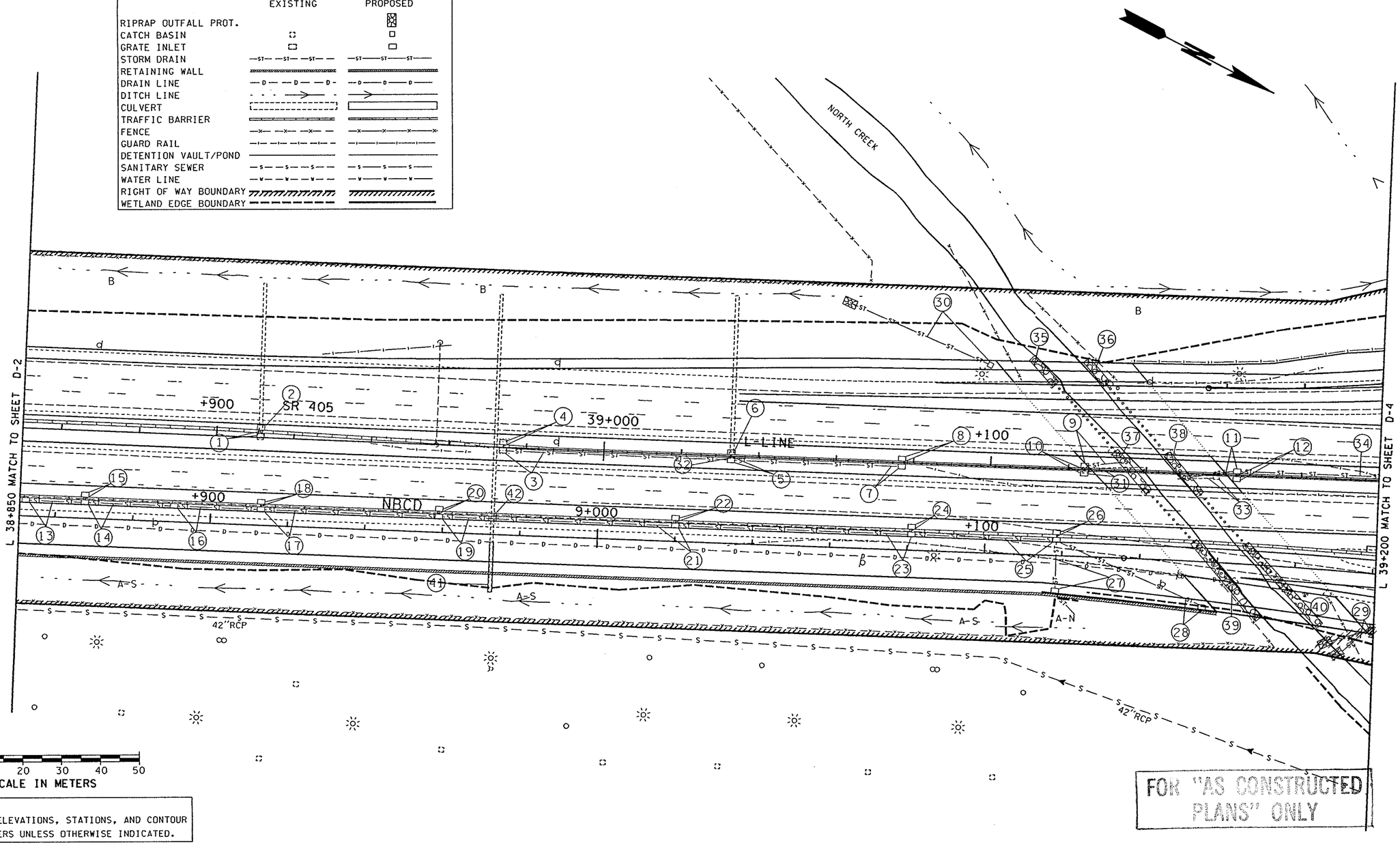
SHEET 156 OF 663 SHEETS

PLOT8 06 JAN 97 s:\412347\12095\o12095\95drain1.dgn $(username)
Mon Jan 06 14:18:52 1997 D412347 I:\412347\12095\o12095\95drain1.PLT

T.26N. R.5E. W.M.

LEGEND

	EXISTING	PROPOSED
RIPRAP OUTFALL PROT.		
CATCH BASIN		
GRATE INLET		
STORM DRAIN	—ST— —ST— —ST—	—ST—ST—ST—
RETAINING WALL		
DRAIN LINE	—D— —D— —D—	—D—D—D—
DITCH LINE		
CULVERT		
TRAFFIC BARRIER		
FENCE	—x— —x— —x—	—x—x—x—
GUARD RAIL		
DETENTION VAULT/POND		
SANITARY SEWER	—s— —s— —s—	—s—s—s—
WATER LINE	—w— —w— —w—	—w—w—w—
RIGHT OF WAY BOUNDARY		
WETLAND EDGE BOUNDARY		



0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	6/25/96			
ENTERED BY	B. SAVILLE	6/25/96	1/8/97	ADD SYMBOLOGY FOR	FT
CHECKED BY	R.THURMOND	6/25/96		STR. NOTE 42	
PROJ. ENGR.	R.KINOSHITA	6/25/96		REV. SYMBOLOGY OF	FT
REGIONAL ADM.	J. OKAMOTO	6/25/96		STR. NTS 3.4	
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE PLANS

D-3

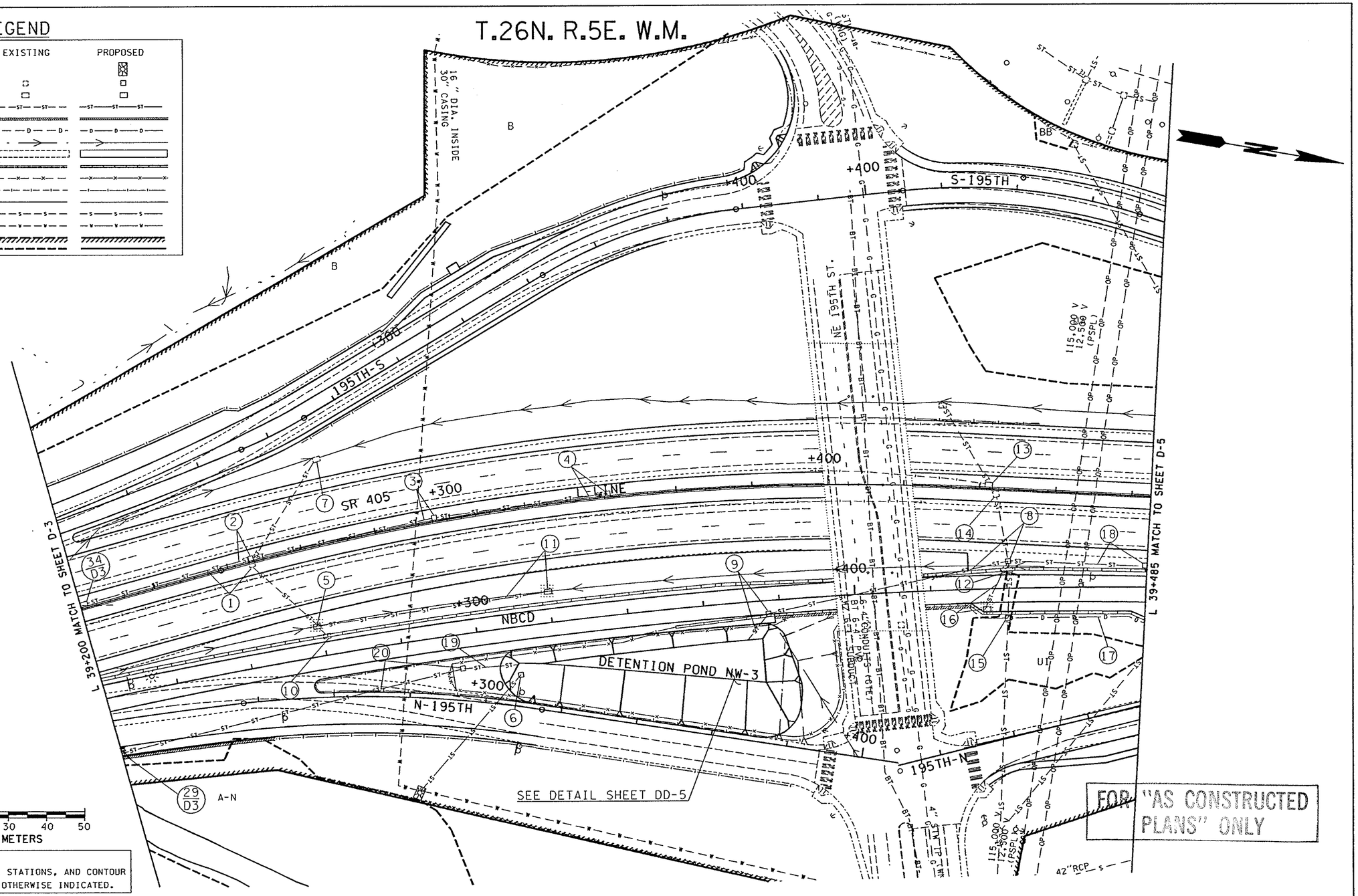
SHEET 157 OF 663 SHEETS

PLOT9 06 JAN 97 s:\412347\12095\01\2095\95drain1.dgn $(username)

T.26N. R.5E. W.M.

LEGEND

	EXISTING	PROPOSED
RIPRAP OUTFALL PROT.		
CATCH BASIN		
GRATE INLET		
STORM DRAIN	—ST— —ST— —ST—	—ST—ST—ST—
RETAINING WALL		
DRAIN LINE	—D— —D— —D—	—D—D—D—
DITCH LINE		
CULVERT		
TRAFFIC BARRIER		
FENCE	—x— —x— —x—	—x—x—x—
GUARD RAIL		
DETENTION VAULT/POND		
SANITARY SEWER	—S— —S— —S—	—S—S—S—
WATER LINE	—W— —W— —W—	—W—W—W—
RIGHT OF WAY BOUNDARY		
WETLAND EDGE BOUNDARY		



0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY F. TIMM	6/25/96				
ENTERED BY B. SAVILLE	6/25/96				
CHECKED BY R.THURMOND	6/25/96				
PROJ. ENGR. R.KINOSHITA	6/25/96	1/8/97	REV. SYMBOLOGY OF STR. NTS 5.11.16	FT	
REGIONAL ADM. J. OKAMOTO	6/25/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE PLANS

D-4

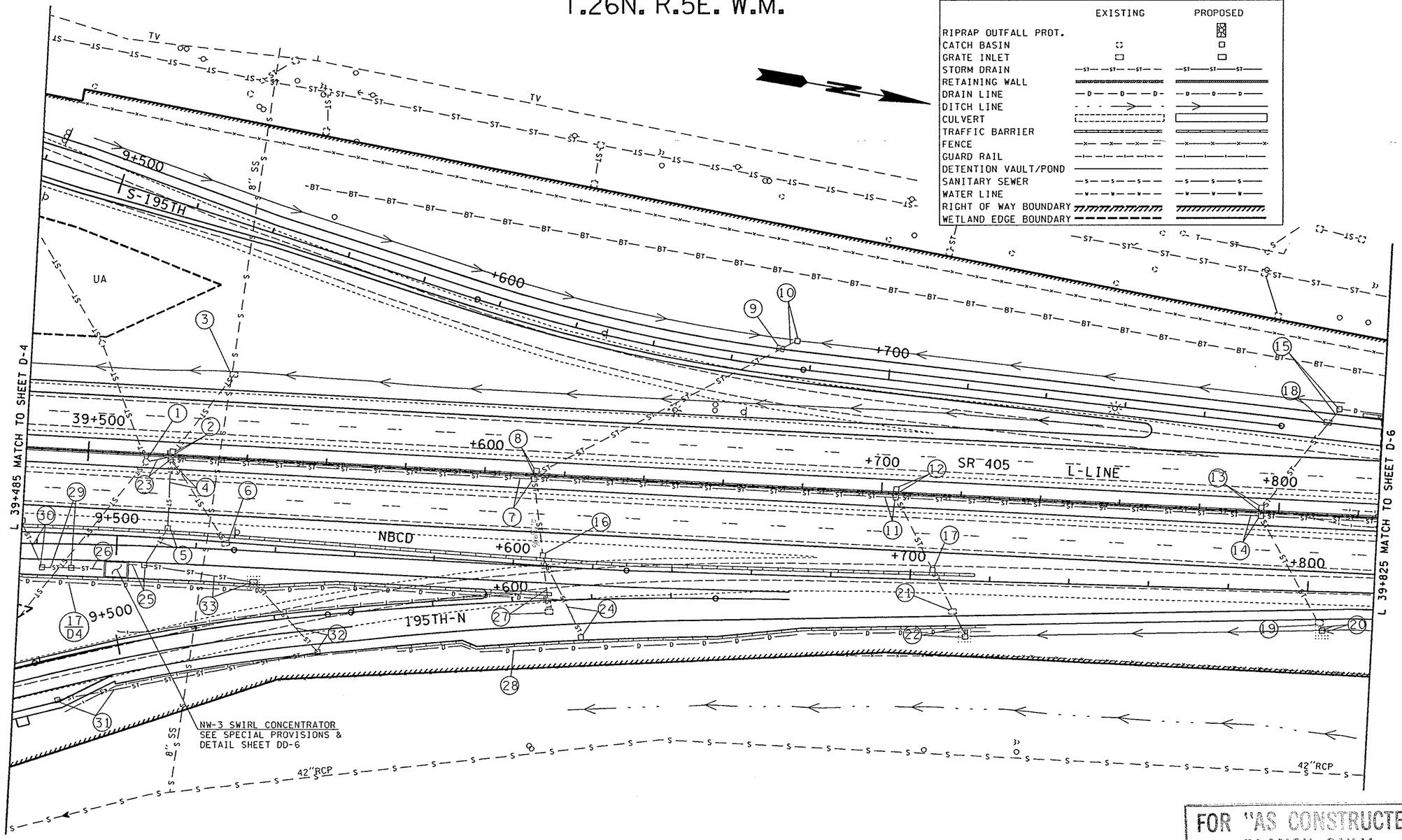
SHEET 158 OF 663 SHEETS

PLOT10 07 JAN 97 s:\412347\12095\ol2095\95drain1.dgn $(username)

T.26N. R.5E. W.M.

LEGEND

	EXISTING	PROPOSED
RIPRAP OUTFALL PROT.		
CATCH BASIN		
GRATE INLET		
STORM DRAIN	—ST— —ST— —ST—	—ST— —ST— —ST—
RETAINING WALL		
DRAIN LINE	—D— —D— —D—	—D— —D— —D—
DITCH LINE		
CULVERT		
TRAFFIC BARRIER		
FENCE	—x— —x— —x—	—x— —x— —x—
GUARD RAIL		
DETENTION VAULT/POND		
SANITARY SEWER	—S— —S— —S—	—S— —S— —S—
WATER LINE	—W— —W— —W—	—W— —W— —W—
RIGHT OF WAY BOUNDARY		
WETLAND EDGE BOUNDARY		



FOR "AS CONSTRUCTED PLANS" ONLY

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

0 10 20 30 40 50
SCALE IN METERS

DESIGNED BY F. TIMM	6/25/96				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
ENTERED BY B. SAVILLE	6/25/96				JOB NUMBER 96W035			Washington State Department of Transportation
CHECKED BY R.THURMOND	6/25/96				CONTRACT NO. 5054			
PROJ. ENGR. R.KINOSHITA	6/25/96	1/8/97	REV. SYMBOLOGY OF	FT				
REGIONAL ADM. J. OKAMOTO	6/25/96		STR. NTS. 20.22.33					
	DATE	DATE	REVISION	BY				

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE PLANS

D-5

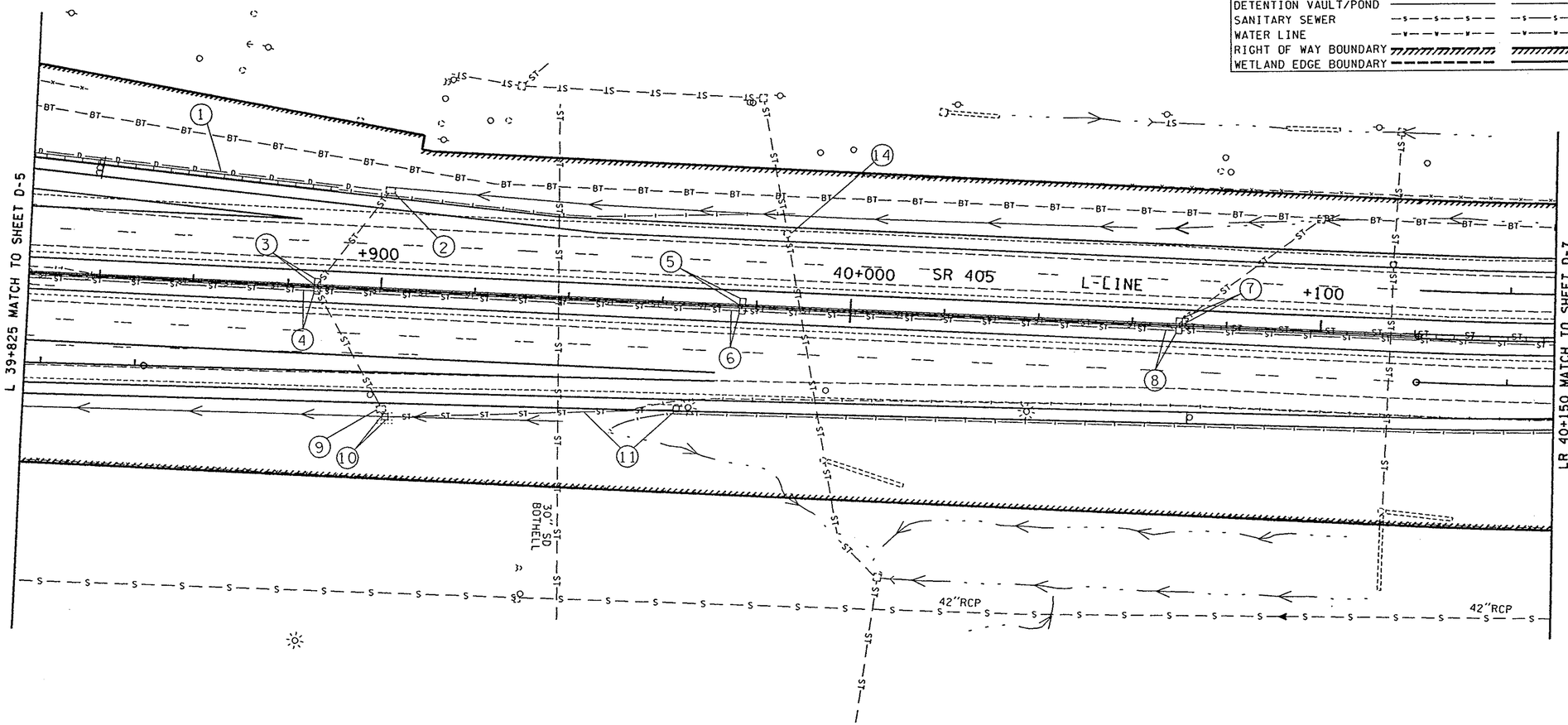
SHEET 159 OF 663 SHEETS

PLOT11 06 JAN 97 s:\412347\12095\vol2095\95drain1.dgn $(username)

T.26N. R.5E. W.M.

LEGEND

	EXISTING	PROPOSED
RIPRAP OUTFALL PROT.		
CATCH BASIN		
GRATE INLET		
STORM DRAIN	—ST— —ST— —ST—	—ST— —ST— —ST—
RETAINING WALL		
DRAIN LINE	—D— —D— —D—	—D— —D— —D—
DITCH LINE		
CULVERT		
TRAFFIC BARRIER		
FENCE	—x— —x— —x—	—x— —x— —x—
GUARD RAIL		
DETENTION VAULT/POND		
SANITARY SEWER	—S— —S— —S—	—S— —S— —S—
WATER LINE	—W— —W— —W—	—W— —W— —W—
RIGHT OF WAY BOUNDARY		
WETLAND EDGE BOUNDARY		



0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY F. TIMM	6/25/96				
ENTERED BY B. SAVILLE	6/25/96				
CHECKED BY R.THURMOND	6/25/96				
PROJ. ENGR. R.KINOSHITA	6/25/96	1/8/97	REV. SYMBOLOGY OF	FT	
REGIONAL ADM. J. OKAMOTO	6/25/96		STR. NOTE 10		
	DATE	DATE	REVISION	BY	

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE PLANS

D-6

SHEET 160 OF 663 SHEETS

PLOT12 09 NOV 96 s:\412347\2095\95drain1.dgn 412347
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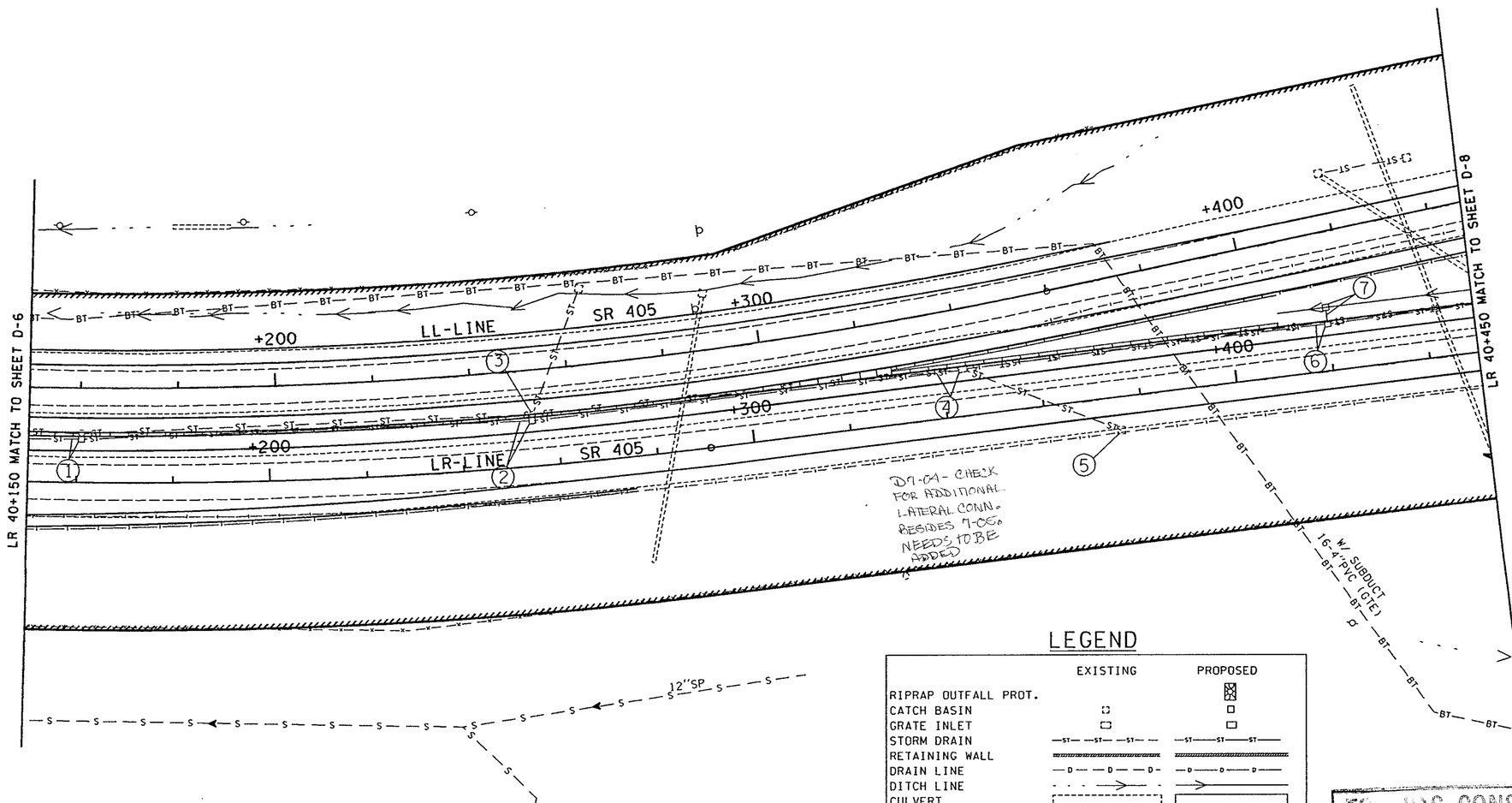
T.26N. R.5E. W.M.



LEGEND

	EXISTING	PROPOSED
RIPRAP OUTFALL PROT.		
CATCH BASIN		
GRATE INLET		
STORM DRAIN	—ST— —ST— —ST—	—ST—ST—ST—
RETAINING WALL		
DRAIN LINE	—D— —D— —D—	—D—D—D—
DITCH LINE		
CULVERT		
TRAFFIC BARRIER		
FENCE	—X— —X— —X—	—X—X—X—X—
GUARD RAIL		
DETENTION VAULT/POND		
SANITARY SEWER	—S— —S— —S—	—S—S—S—
WATER LINE	—W— —W— —W—	—W—W—W—
RIGHT OF WAY BOUNDARY		
WETLAND EDGE BOUNDARY		

0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY F. TIMM	06/26/96				
ENTERED BY R. PLUT	06/26/96				
CHECKED BY R.THURMOND	06/26/96				
PROJ. ENGR. R.KINOSHITA	06/26/96				
REGIONAL ADM. J. OKAMOTO	06/26/96				
	DATE	DATE	REVISION	BY	

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE PLANS

D-7

SHEET 161 OF 663 SHEETS

PLOT13 09 NOV 96 s:\412347\12095\95drain1.dgn 412347
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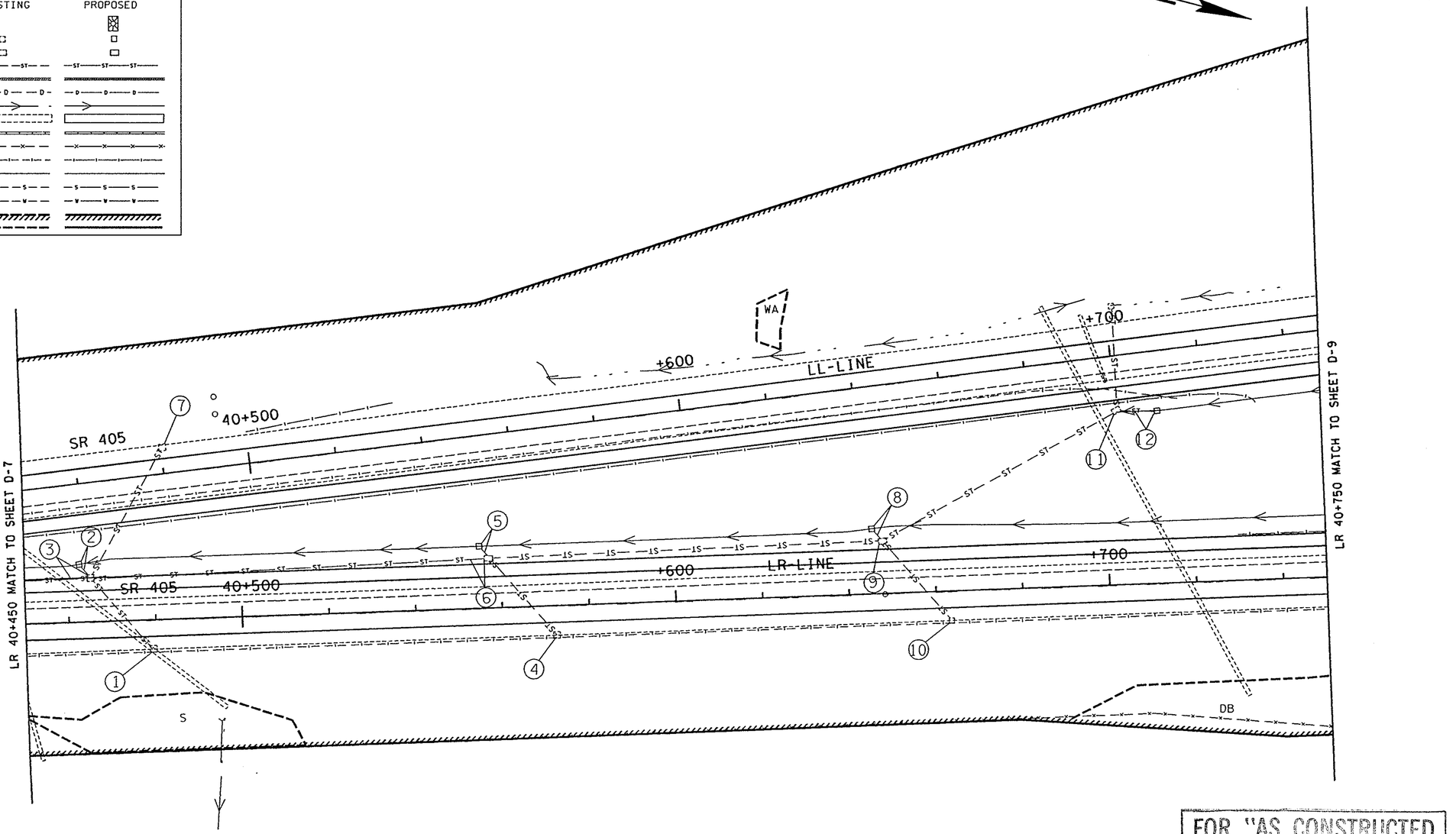
Sat Nov 09 09:28:53 1996 D412347

T.27N. R.5E. W.M.

LEGEND

	EXISTING	PROPOSED
RIPRAP OUTFALL PROT.		
CATCH BASIN		
GRATE INLET		
STORM DRAIN	—ST— —ST— —ST—	—ST— —ST— —ST—
RETAINING WALL		
DRAIN LINE	—D— —D— —D—	—D— —D— —D—
DITCH LINE		
CULVERT		
TRAFFIC BARRIER		
FENCE	—x— —x— —x—	—x— —x— —x—
GUARD RAIL		
DETENTION VAULT/POND		
SANITARY SEWER	—S— —S— —S—	—S— —S— —S—
WATER LINE	—W— —W— —W—	—W— —W— —W—
RIGHT OF WAY BOUNDARY		
WETLAND EDGE BOUNDARY		



0 10 20 30 40 50
SCALE IN METERS

FOR "AS CONSTRUCTED PLANS" ONLY

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

					REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DESIGNED BY F. TIMM	06/26/96				JOB NUMBER 96W035		
ENTERED BY R. PLUT	06/26/96						
CHECKED BY R.THURMOND	06/26/96						
PROJ. ENGR. R.KINOSHITA	06/26/96						
REGIONAL ADM. J. OKAMOTO	06/26/96				CONTRACT NO. 5054		
	DATE	DATE	REVISION	BY			

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE PLANS

D-8

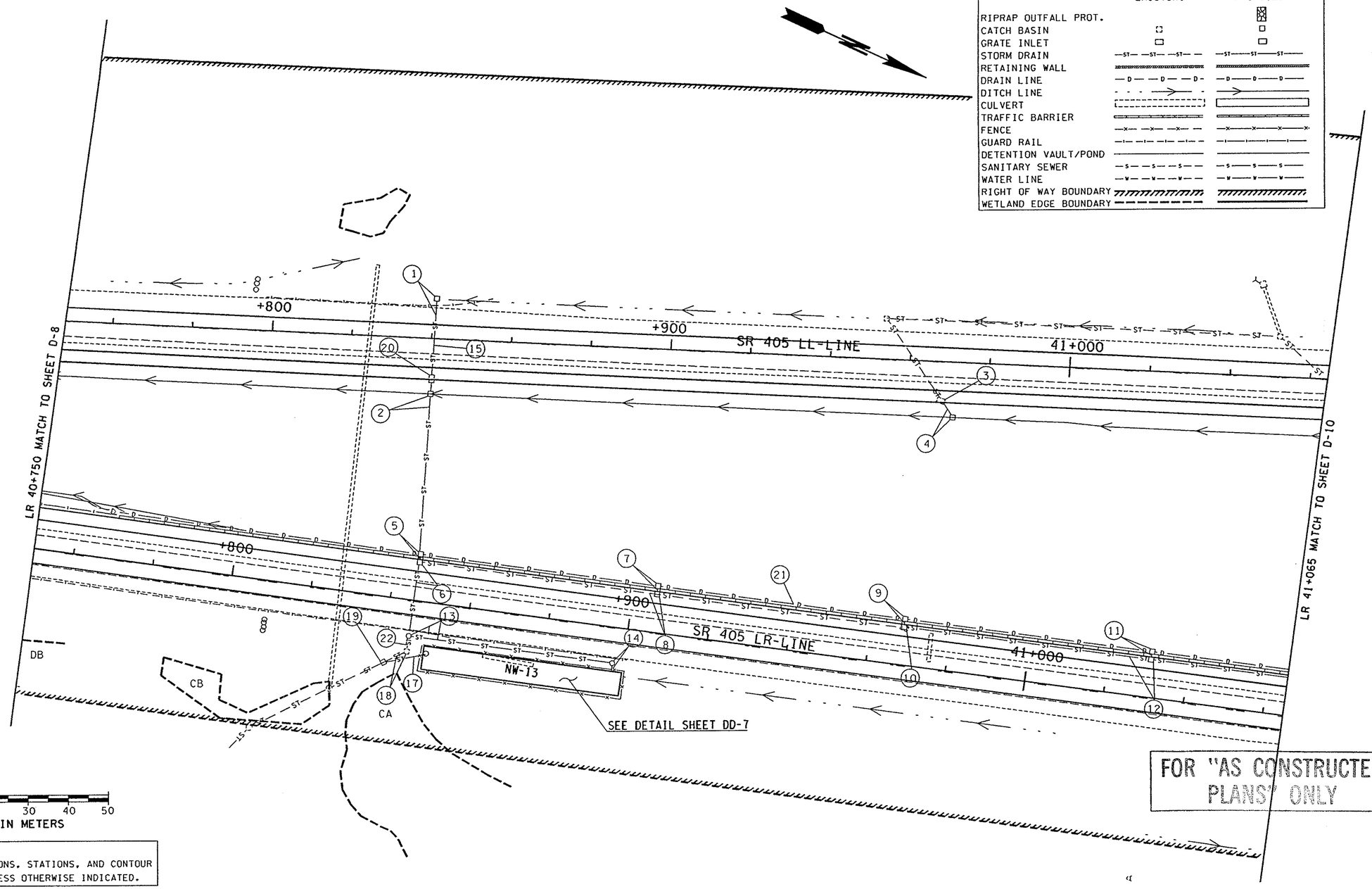
SHEET 162 OF 663 SHEETS

PLOT1 09 NOV 96 s:\412347\12095\95drain2.dgn 412347
Sat Nov 09 09:30:59 1996 D412347 T:\412347\A\3F1U-1.PLT

T.27N. R.5E. W.M.

LEGEND

	EXISTING	PROPOSED
RIPRAP OUTFALL PROT.		
CATCH BASIN		
GRATE INLET		
STORM DRAIN	—ST— —ST— —ST—	—ST— —ST— —ST—
RETAINING WALL		
DRAIN LINE	—D— —D— —D—	—D— —D— —D—
DITCH LINE		
CULVERT		
TRAFFIC BARRIER		
FENCE	—x— —x— —x—	—x— —x— —x—
GUARD RAIL		
DETENTION VAULT/POND		
SANITARY SEWER	—S— —S— —S—	—S— —S— —S—
WATER LINE	—W— —W— —W—	—W— —W— —W—
RIGHT OF WAY BOUNDARY		
WETLAND EDGE BOUNDARY		



0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY F. TIMM	06/26/96				
ENTERED BY R. PLUT	06/26/96				
CHECKED BY R.THURMOND	06/26/96				
PROJ. ENGR. R.KINOSHITA	06/26/96				
REGIONAL ADM. J. OKAMOTO	06/26/96				
	DATE	DATE	REVISION	BY	

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

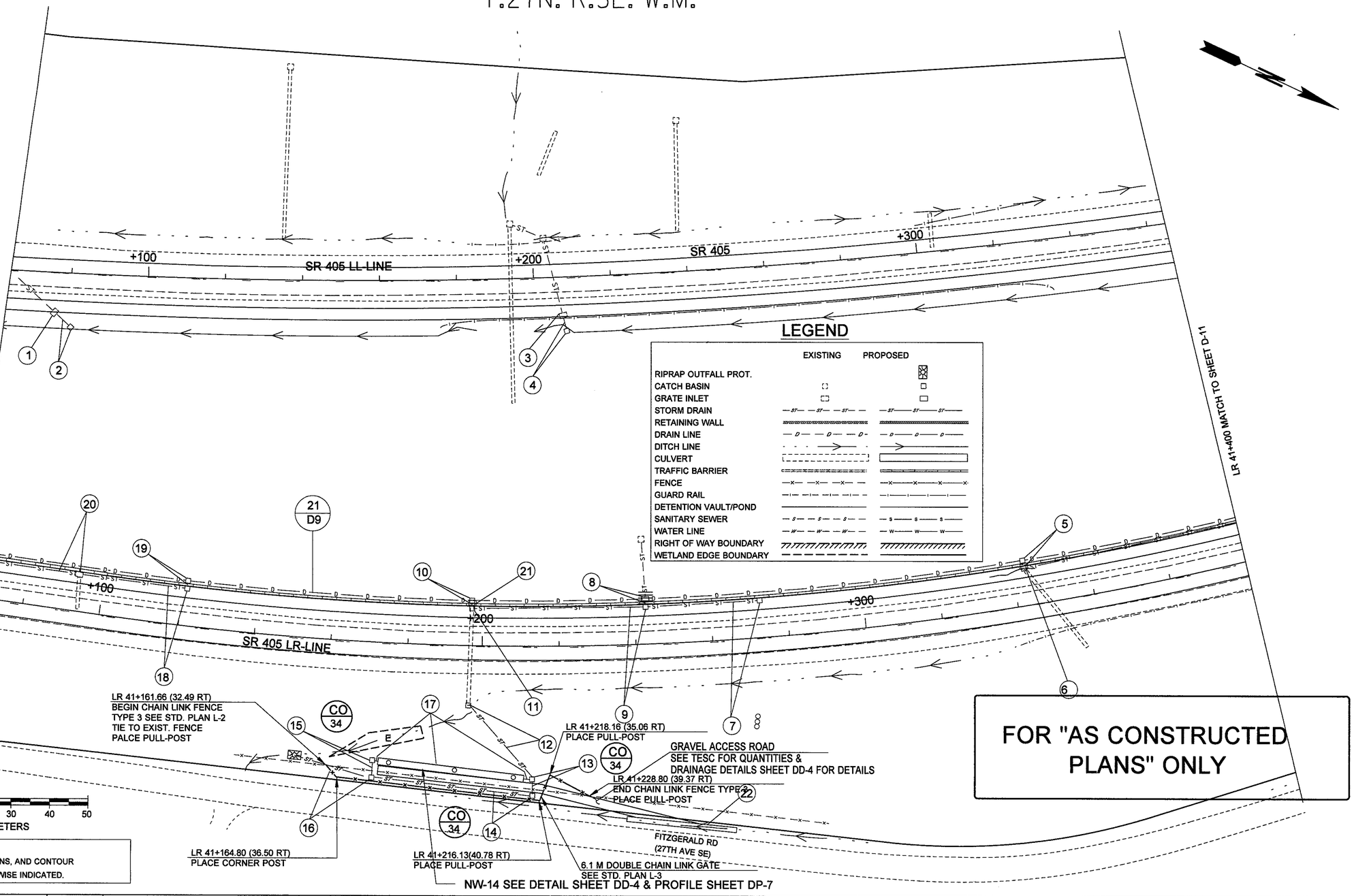
DRAINAGE PLAN

D-9

SHEET 163 OF 663 SHEETS

PLOT2 06/21/2000 C:\DGN\MohabVAs Built L2095\95DRAIN2.DGN SchuerP

T.27N. R.5E. W.M.



LEGEND

	EXISTING	PROPOSED
RIPRAP OUTFALL PROT.		
CATCH BASIN		
GRATE INLET		
STORM DRAIN		
RETAINING WALL		
DRAIN LINE		
DITCH LINE		
CULVERT		
TRAFFIC BARRIER		
FENCE		
GUARD RAIL		
DETENTION VAULT/POND		
SANITARY SEWER		
WATER LINE		
RIGHT OF WAY BOUNDARY		
WETLAND EDGE BOUNDARY		

LEGEND

CO 34 CHANGE ORDER

0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	6/26/96				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
ENTERED BY	B. SAVILLE	6/26/96							
CHECKED BY	R.THURMOND	6/26/96	12/04/98	CHANGE ORDER #34	ALM	JOB NUMBER 96W035			
PROJ. ENGR.	R.KINOSHITA	6/26/96		REV. SYMBOLOGY OF FT STR. NOTE 8		CONTRACT NO.			
REGIONAL ADM.	J. OKAMOTO	6/26/96							
		DATE	DATE	REVISION	BY				

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE PLAN

D-10

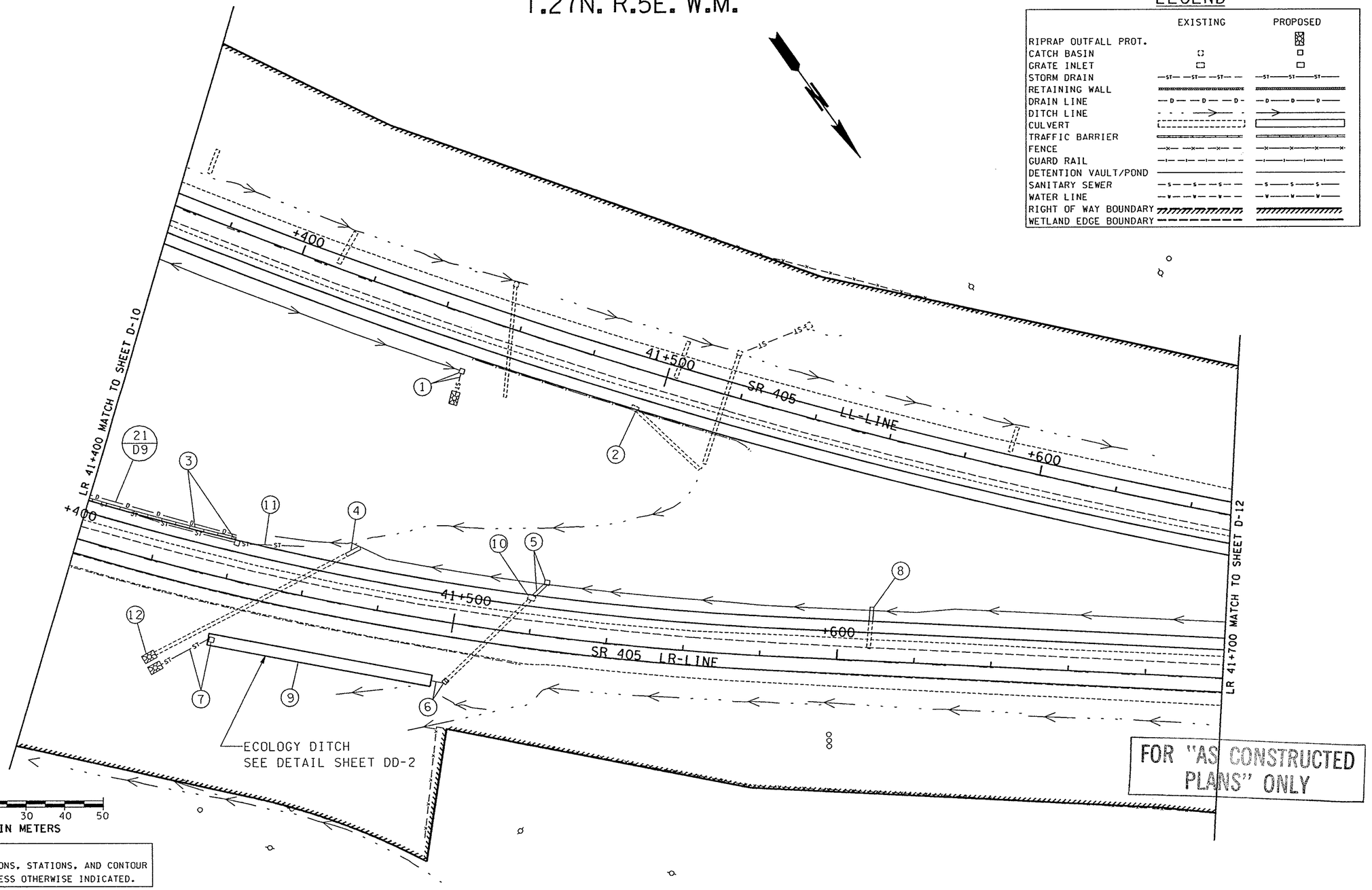
SHEET 164 OF 663 SHEETS

Sat Nov 09 09:31:30 1996 D412347 T:\412347\A\3F1U-3.PLT
PLOT3 09 NOV 96 s:\412347\12095\95drain2.dgn 412347

T.27N. R.5E. W.M.

LEGEND

	EXISTING	PROPOSED
RIPRAP OUTFALL PROT.		
CATCH BASIN		
GRATE INLET		
STORM DRAIN	—ST— —ST— —ST—	—ST— —ST— —ST—
RETAINING WALL		
DRAIN LINE	—D— —D— —D—	—D— —D— —D—
DITCH LINE		
CULVERT		
TRAFFIC BARRIER		
FENCE	—x— —x— —x—	—x— —x— —x—
GUARD RAIL		
DETENTION VAULT/POND		
SANITARY SEWER	—S— —S— —S—	—S— —S— —S—
WATER LINE	—W— —W— —W—	—W— —W— —W—
RIGHT OF WAY BOUNDARY		
WETLAND EDGE BOUNDARY		



0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY F. TIMM	06/27/96				
ENTERED BY R. PLUT	06/27/96				
CHECKED BY R.THURMOND	06/27/96				
PROJ. ENGR. R.KINOSHITA	06/27/96				
REGIONAL ADM. J. OKAMOTO	06/27/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE PLAN

D-11

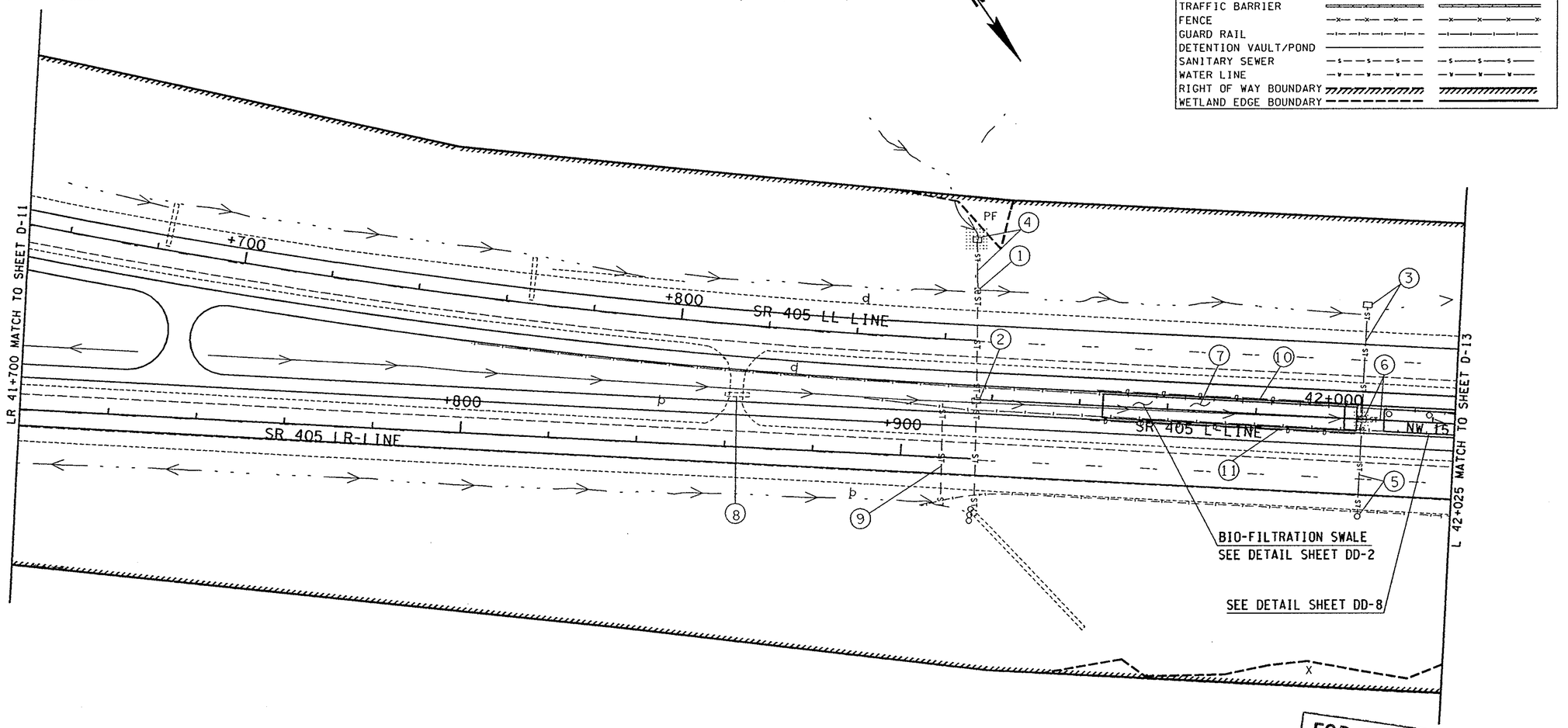
SHEET 165 OF 663 SHEETS

PLOT4 06 JAN 97 s:\412347\12095\vol2095\95drain2.dgn $(username)
Mon Jan 06 14:25:29 1997 D412347 T:\412347\PLT\10-4.PLT

T.27N. R.5E. W.M.

LEGEND

	EXISTING	PROPOSED
RIPRAP OUTFALL PROT.		
CATCH BASIN		
GRATE INLET		
STORM DRAIN	—ST— —ST— —ST—	—ST—ST—ST—
RETAINING WALL		
DRAIN LINE	—D— —D— —D—	—D—D—D—
DITCH LINE		
CULVERT		
TRAFFIC BARRIER		
FENCE	—x— —x— —x—	—x—x—x—
GUARD RAIL		
DETENTION VAULT/POND		
SANITARY SEWER	—S— —S— —S—	—S—S—S—
WATER LINE	—W— —W— —W—	—W—W—W—
RIGHT OF WAY BOUNDARY		
WETLAND EDGE BOUNDARY		



0 10 20 30 40 50
SCALE IN METERS

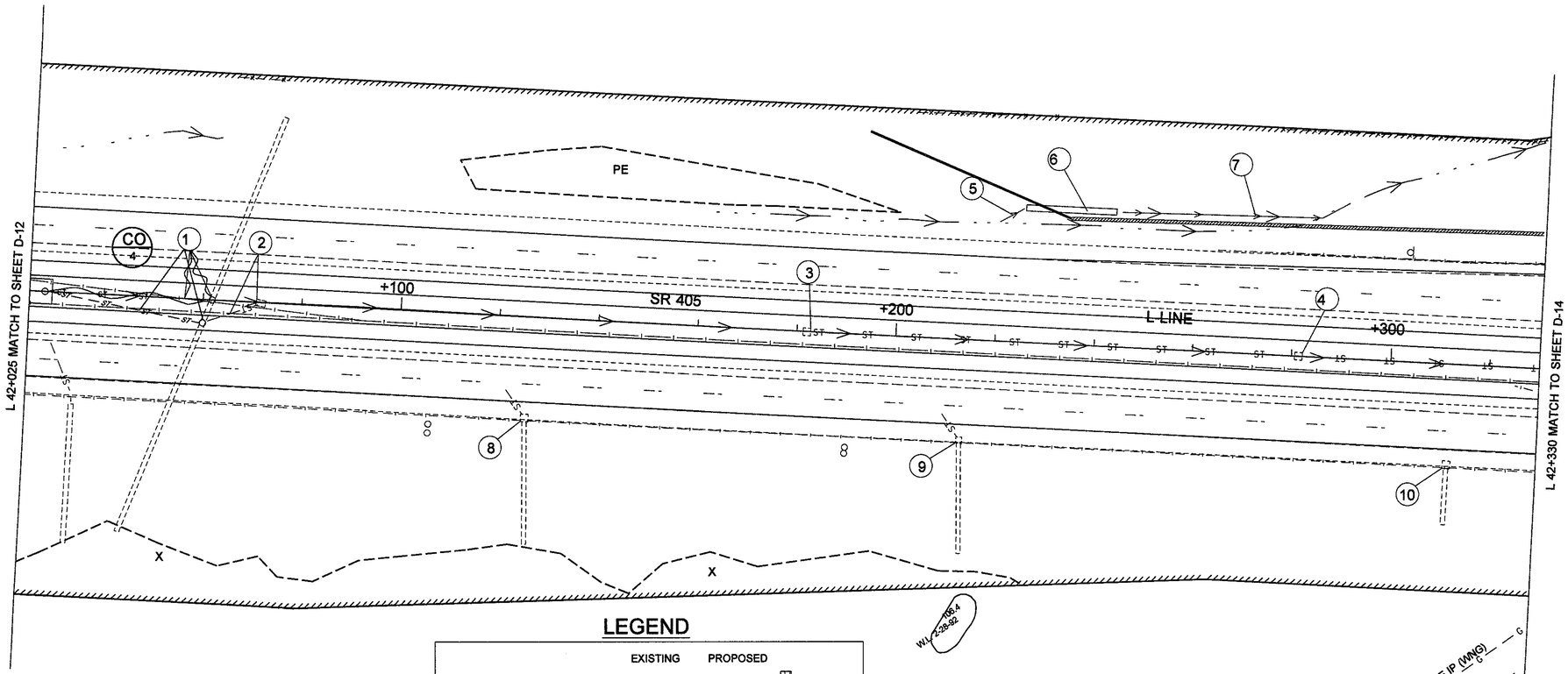
NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

FOR "AS CONSTRUCTED PLANS" ONLY

					REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
DESIGNED BY F. TIMM	6/26/96				10	WASH		Washington State Department of Transportation
ENTERED BY B. SAVILLE	6/26/96				JOB NUMBER			SR 405 BOTHELL TO SWAMP CREEK I/C HOV LANES - STAGE 1
CHECKED BY R.THURMOND	6/26/96				96W035			D-12
PROJ. ENGR. R.KINOSHITA	6/26/96	1/8/97	REV. SYMBOLOGY OF	FI	CONTRACT NO.			SHEET 166 OF 663 SHEETS
REGIONAL ADM. J. OKAMOTO	6/26/96		STR. NOTES 4.6		5054			DRAINAGE PLAN
	DATE	DATE	REVISION	BY				

PLOT12 06/21/2000 C:\DGN\MohabVAs Built L2095\95DRAIN2.DGN SchuerP

T.27N. R.5E. W.M.



LEGEND

	EXISTING	PROPOSED
RIPRAP OUTFALL PROT.		
CATCH BASIN		
GRATE INLET		
STORM DRAIN	ST	ST
RETAINING WALL		
DRAIN LINE	D	D
DITCH LINE		
CULVERT		
TRAFFIC BARRIER		
FENCE	X	X
GUARD RAIL		
DETENTION VAULT/POND		
SANITARY SEWER	S	S
WATER LINE	W	W
RIGHT OF WAY BOUNDARY		
WETLAND EDGE BOUNDARY		

0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

LEGEND

CO 4 CHANGE ORDER

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	6/26/96				
ENTERED BY	B. SAVILLE	6/26/96				
CHECKED BY	R.THURMOND	6/26/96				
PROJ. ENGR.	R.KINOSHITA	6/26/96				
REGIONAL ADM.	J. OKAMOTO	6/26/96	07/15/97	CHANGE ORDER #4	LP	
		DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO.

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE PLAN

D-13

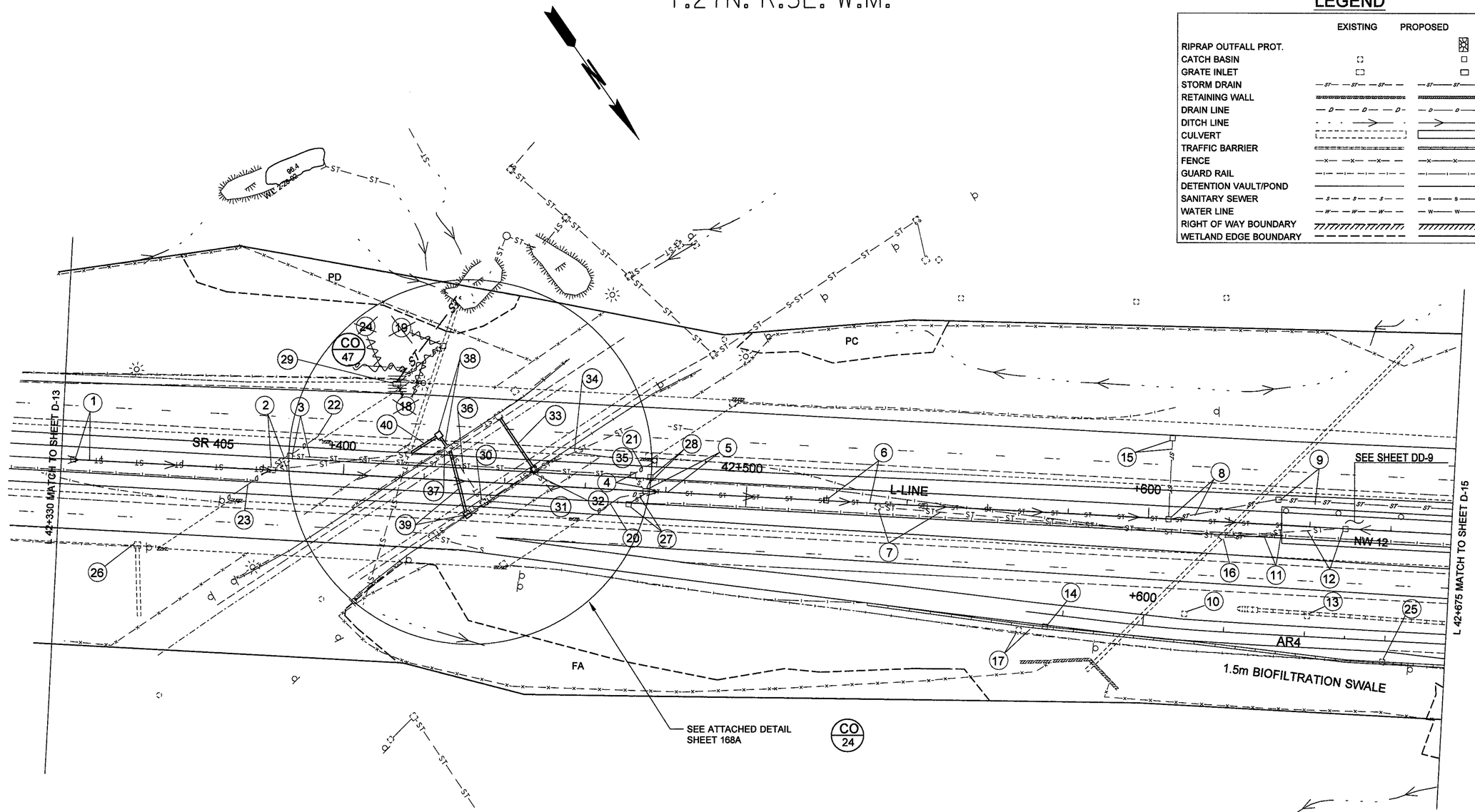
SHEET 167 OF 663 SHEETS

SchuerP
C:\DGN\MohabVAs Built L2095195DRAIN2.DGN
06/21/2000
PLOT6

T.27N. R.5E. W.M.

LEGEND

	EXISTING	PROPOSED
RIPRAP OUTFALL PROT.		
CATCH BASIN		
GRATE INLET		
STORM DRAIN		
RETAINING WALL		
DRAIN LINE		
DITCH LINE		
CULVERT		
TRAFFIC BARRIER		
FENCE		
GUARD RAIL		
DETENTION VAULT/POND		
SANITARY SEWER		
WATER LINE		
RIGHT OF WAY BOUNDARY		
WETLAND EDGE BOUNDARY		



0 10 20 30 40 50
SCALE IN METERS

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

LEGEND

CO 24 CHANGE ORDER

CO 47 CHANGE ORDER

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY	F. TIMM	6/26/96				
ENTERED BY	B. SAVILLE	6/26/96	07/19/99	CHANGE ORDER #47	ALM	
CHECKED BY	R.THURMOND	6/26/96	04/01/98	CHANGE ORDER #24	ALM	
PROJ. ENGR.	R.KINOSHITA	6/26/96	01/08/97	REV. SYMBOLOGY OF FT. STR. NOTE 18		
REGIONAL ADM.	J. OKAMOTO	6/26/96				
		DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO.

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE PLAN

D-14

SHEET 168 OF 663 SHEETS

SchuerP C:\DGN\MohabVAs Built L2095\95DRAIN2.DGN 06/21/2000 PLOT13

REMOVE CONFLICTING DRAINAGE PIPE DURING CONSTRUCTION

INSTALL TEMPORARY FLEXIBLE PIPE. INSTALL NEW RIGID PIPE AFTER FOOTING CONSTRUCTION

℄ L LINE 42+450

PLUG ABANDONED PIPES

REMOVE CONFLICTING DRAINAGE STRUCTURE

INSTALL NEW C.B. TYPE-1

IE=26.20

IE=28.42

IE=28.81

0.15m

0.20m

0.30m

0.30m

0.15m

IE=28.78

IE=28.77

IE=28.29

TOP/F.O. CASING=28.85+/-

LIMITS OF FIBER OPTIC CASING +/-

0.30m SAN. SEWER

℄ 228TH ST.S.E.

TOP/F.O. CASING=28.50+/-

0.30m

0.46m

0.30m

REMOVE CONFLICTING DRAINAGE STRUCTURE

IE=28.69

PLUG ABANDONED PIPE

1.22m

0.15m

0.30m

IE=28.86

IE=28.68

IE=28.21

IE=27.95

0.46m

0.46m

IE=27.68

PLUG ABANDONED PIPE

IE=27.49

IE=27.72

INSTALL NEW CATCH baSIN TYPE-2 1500mm DIA

EXIST 1.22m TYPE-2 C.B.

1.22m

42+400

IE=27.67

4.300

4.300

PROPOSED BRIDGE FOOTING (TYP.)

FOR "AS CONSTRUCTED PLANS" ONLY

10+030 10+020 10+010 10+000 09+990 09+980 09+970 09+960

DESIGNED BY	F. TIMM	6/26/96			REGION NO.	STATE	FED.AID PROJ.NO.
ENTERED BY	B. SAVILLE	6/26/96			10	WASH	
CHECKED BY	R. THURMOND	6/26/96			JOB NUMBER		
PROJ. ENGR.	R. KINOSHIT	6/26/96			96W035		
REGIONAL ADM.	J. OKAMOTO	6/26/96	04/01/98	CHANGE ORDER #24	ALM	CONTRACT NO.	
		DATE	DATE	REVISION	BY		

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE DETAIL

D-14

SHEET 168A OF 663 SHEETS

C:\DGN\Mohab\As Built L2095\DRAINPRF.DGN
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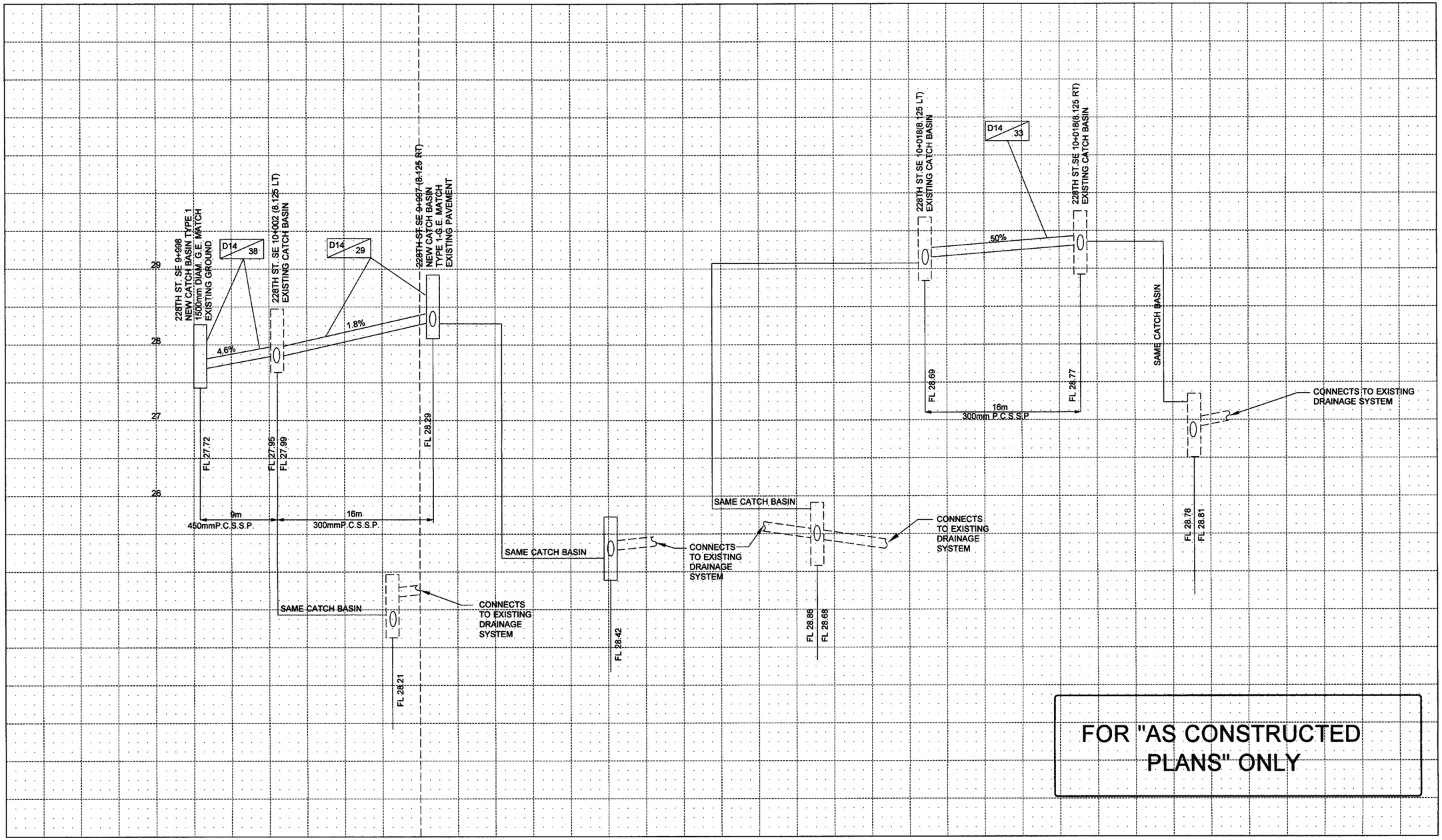
06/22/2000
SchuerP



					REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
DESIGNED BY					10	WASH		Washington State Department of Transportation
ENTERED BY					JOB NUMBER			SR 405 BOTHELL TO SWAMP CREEK I/C HOV LANES - STAGE 1
CHECKED BY								D-14
PROJ. ENGR.					CONTRACT NO.			DRAINAGE PROFILES
REGIONAL ADM.		04/01/98	CHANGE ORDER #24	ALM				SHEET 168B OF 663 SHEETS
	DATE	DATE	REVISION	BY				

PLOT7 06 JAN 97 s:\412347\12095\ol2095\95drain2.dgn $(username)
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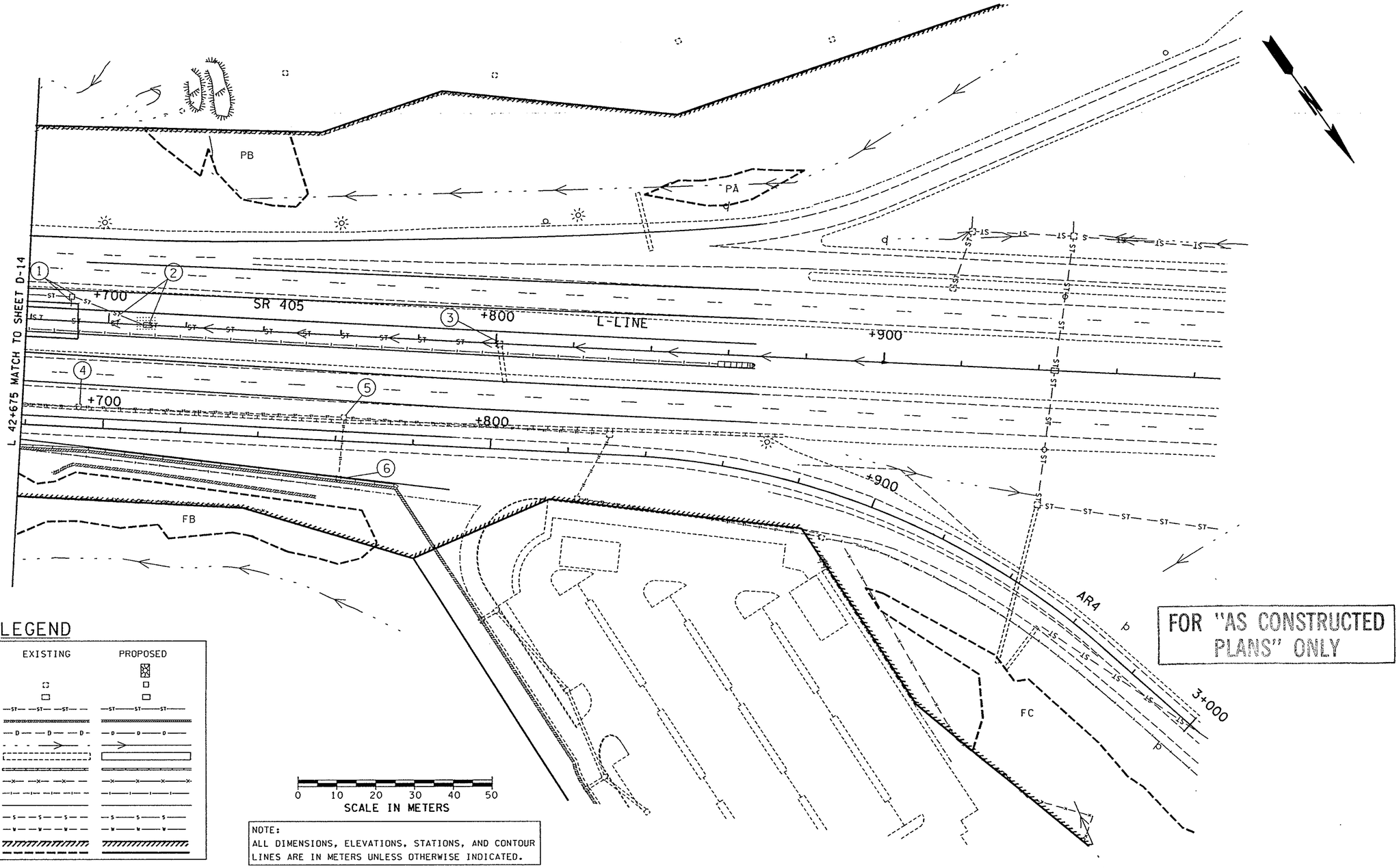
T.27N. R.5E. W.M.



LEGEND

	EXISTING	PROPOSED
RIPRAP OUTFALL PROT.		
CATCH BASIN		
GRATE INLET		
STORM DRAIN	—ST— —ST— —ST—	—ST—ST—ST—
RETAINING WALL		
DRAIN LINE	—D— —D— —D—	—D—D—D—
DITCH LINE		
CULVERT		
TRAFFIC BARRIER		
FENCE	—X— —X— —X—	—X—X—X—X—
GUARD RAIL		
DETENTION VAULT/POND		
SANITARY SEWER	—S— —S— —S—	—S—S—S—
WATER LINE	—W— —W— —W—	—W—W—W—
RIGHT OF WAY BOUNDARY		
WETLAND EDGE BOUNDARY		

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

FOR "AS CONSTRUCTED PLANS" ONLY

DESIGNED BY F. TIMM	6/26/96				
ENTERED BY B. SAVILLE	6/26/96				
CHECKED BY R.THURMOND	6/26/96				
PROJ. ENGR. R.KINOSHITA	6/26/96	1/8/97	REV. SYMBOLOGY OF STR. NOTE 2	FT	
REGIONAL ADM. J. OKAMOTO	6/26/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
96W035		
CONTRACT NO.		
5054		

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE PLAN

D-15

SHEET 169 OF 663 SHEETS

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PLOT1

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06/22/2000

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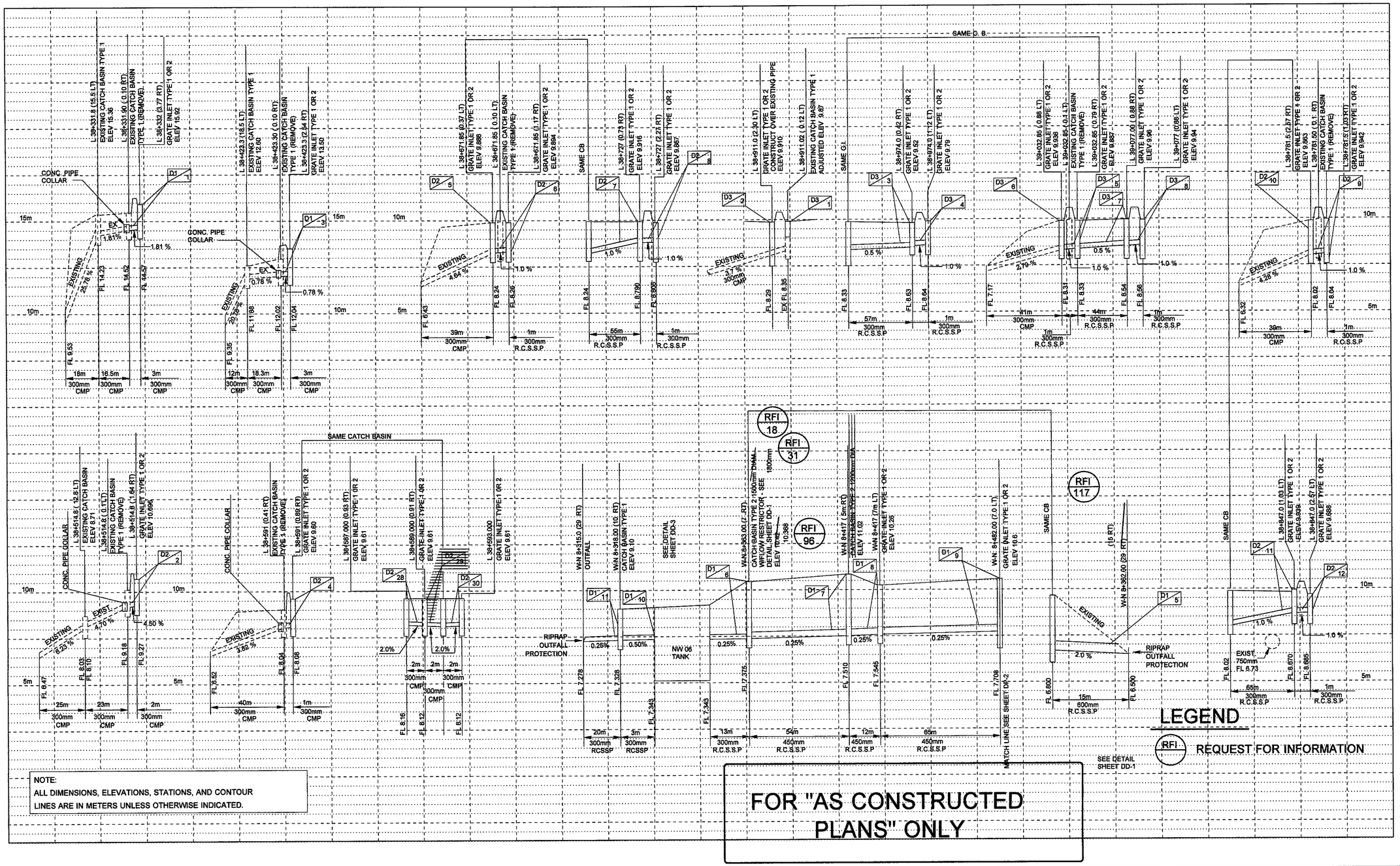

					REGION NO.	STATE	FED.AID PROJ.NO.
		05/21/98	RFI #117	ALM			
DESIGNED BY F. TIMM	10/96	01/20/98	RFI #96	ALM	10	WASH	
ENTERED BY R. PLUT	10/96	06/10/97	RFI #31	ALM			
CHECKED BY B. THURMOND	10/96	05/01/97	RFI #18	ALM	JOB NUMBER		
PROJ. ENGR. R. KINOSHITA	10/96	~~REV STRUCTURE NOTES, FT D1/8, D2/29~~			96W035		
REGIONAL ADM. J. OKAMOTO	10/96				CONTRACT NO.		
	DATE	DATE	REVISION	BY			

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE PROFILES

DP-1

SHEET 170 OF 663 SHEETS

C:\DGN\Mohab\As Built L2095\DRAINPRF.DGN

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06/22/2000

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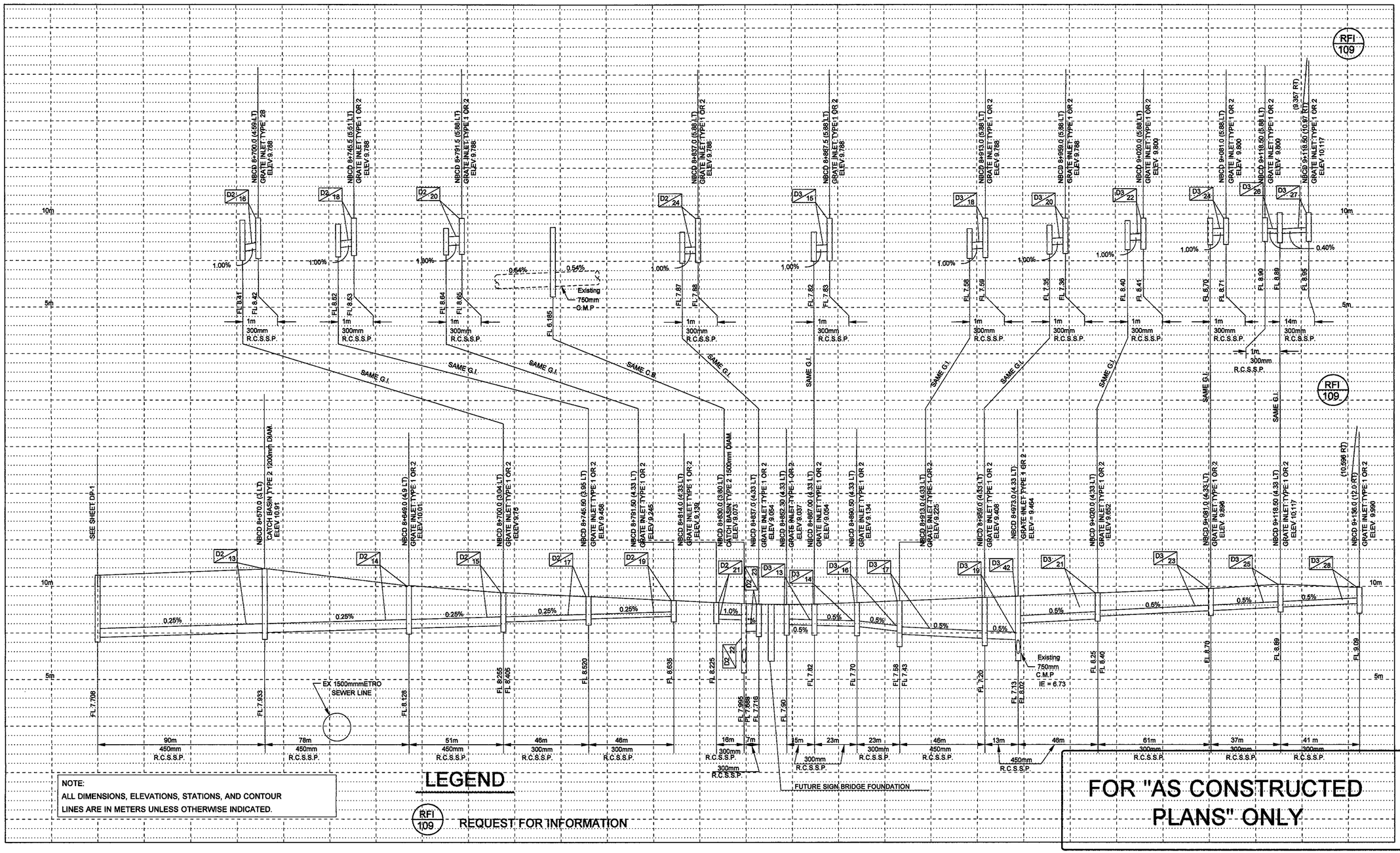

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

LEGEND

RFI 109 — REQUEST FOR INFORMATION

FOR "AS CONSTRUCTED PLANS" ONLY

					REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
					10	WASH		
DESIGNED BY F. TIMM	10/96				JOB NUMBER			Washington State Department of Transportation
ENTERED BY R. PLUT	10/96				96W035			
CHECKED BY R. THURMOND	10/96							SR 405
PROJ. ENGR. R. KINOSHITA	10/96							BOTHELL TO SWAMP CREEK I/C
REGIONAL ADM. J. OKAMOTO	10/96	04/16/98	RFI #109	ALM	CONTRACT NO.			HOV LANES - STAGE 1
	DATE	DATE	REVISION	BY				DRAINAGE PROFILES

DP-2

SHEET 171 OF 663 SHEETS

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06/22/2000

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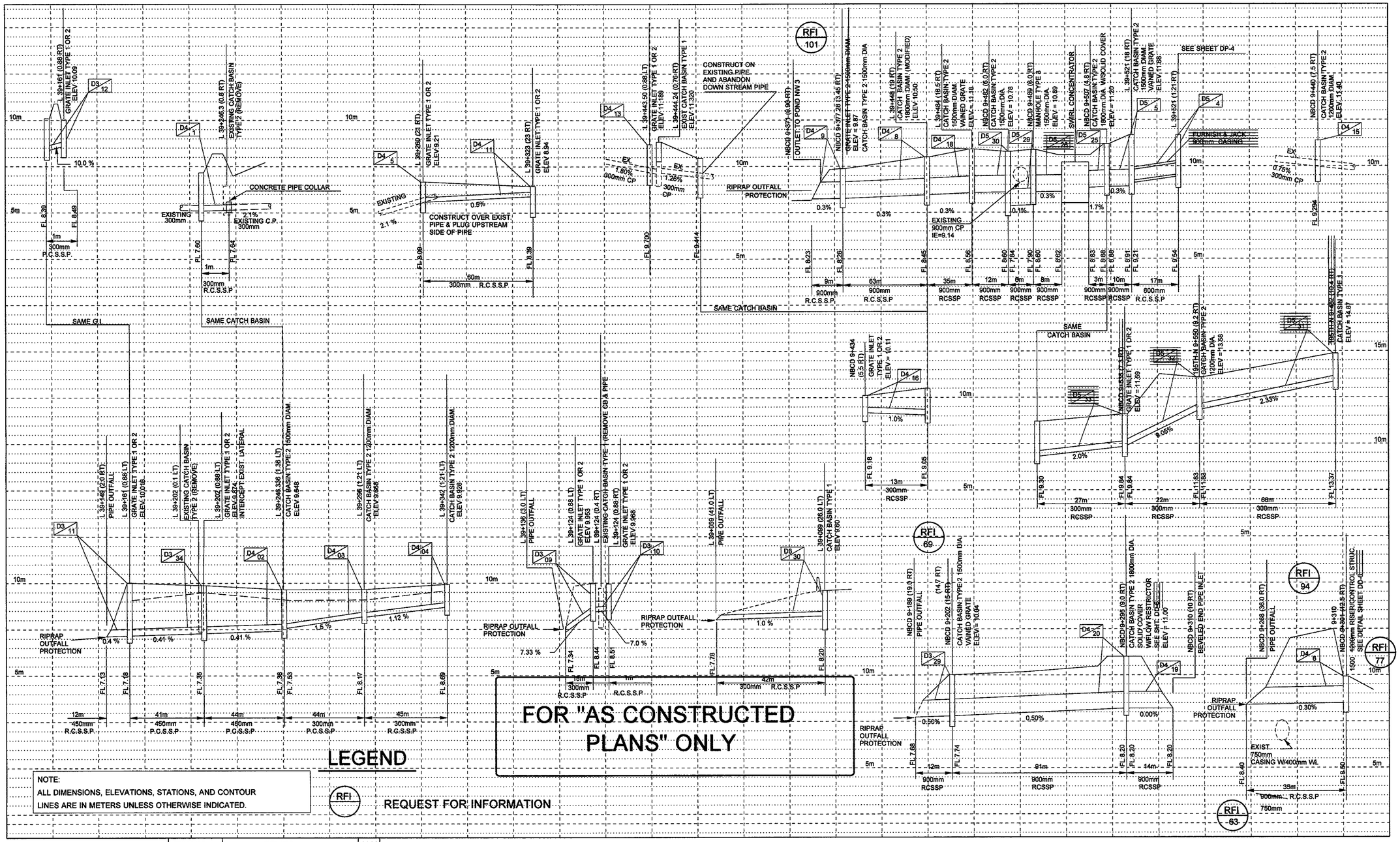

09/11/97	RFI #77	ALM		
09/08/97	RFI #69	ALM		
09/08/97	RFI #63	ALM		
02/19/98	RFI #101	ALM		
11/13/97	RFI #94	ALM		
	~~REV. STRUCTURE NOTES; FT D4/5, D4/26,D5/4, D5/26, D5/31, D5/32, D5/33~~			
DATE	REVISION	BY		

DESIGNED BY	F. TIMM	10/96	
ENTERED BY	A. NGUYEN	10/96	
CHECKED BY	R. THURMOND	10/96	
PROJ. ENGR.	R. KINOSHITA	10/96	
REGIONAL ADM.	J. OKAMOTO	10/96	
		DATE	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035

CONTRACT NO.

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE PROFILES

DP-3

SHEET 172 OF 663 SHEETS

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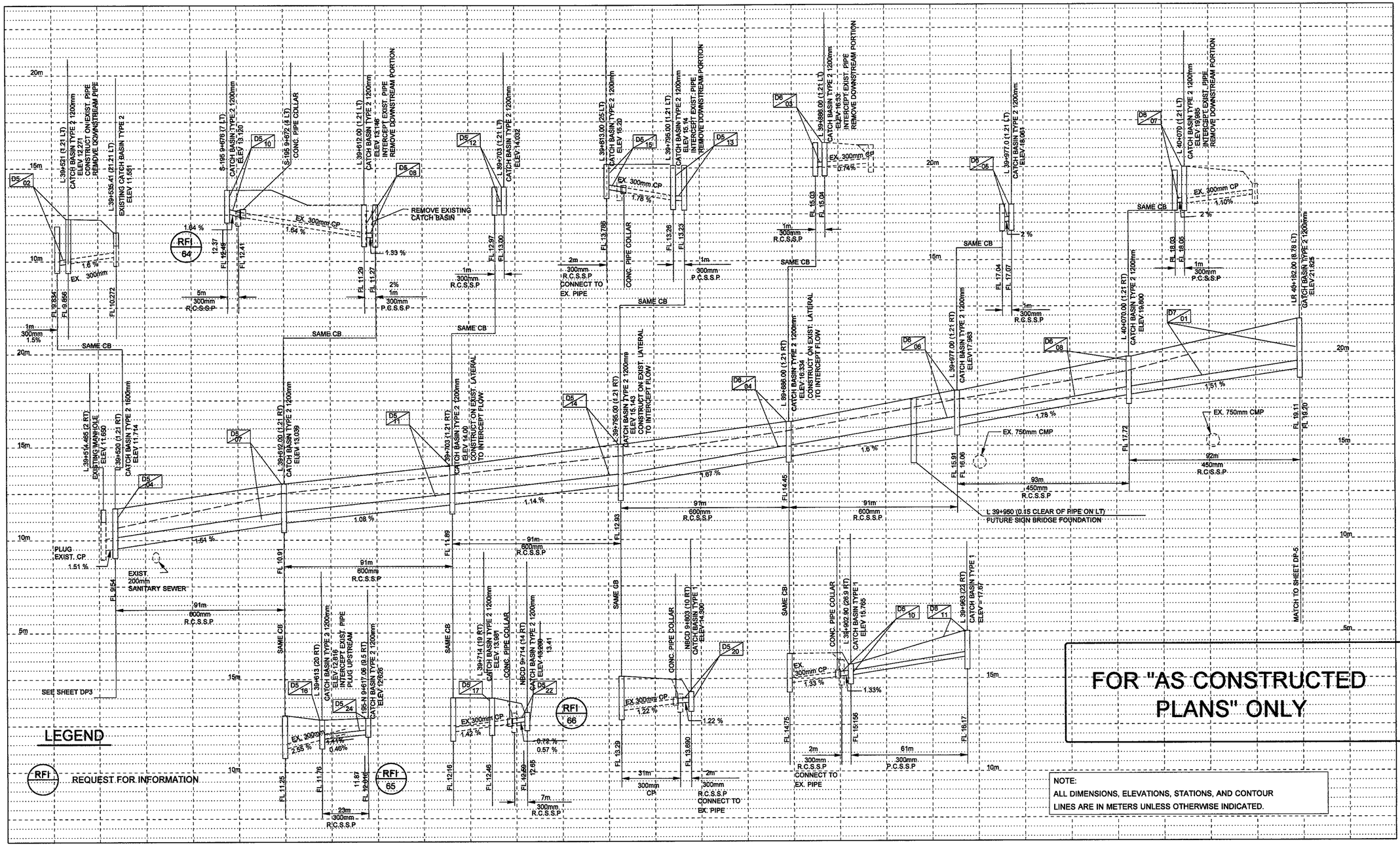

						REGION NO.	STATE	FED.AID PROJ.NO.
DESIGNED BY F.TIMM	10/96					10	WASH	
ENTERED BY	10/96					JOB NUMBER		
CHECKED BY R. THURMOND	10/96	09/09/97	RFI #66	ALM		96W035		
PROJ. ENGR. R. KINOSHITA	10/96	09/10/97	RFI #65	ALM		CONTRACT NO.		
REGIONAL ADM. J. OKAMOTO	10/96	09/09/97	RFI #64	ALM				
	DATE	DATE	REVISION	BY				

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE PROFILES

DP-4

SHEET 173 OF 663 SHEETS

PLOT11 C:\DGN\Mohab\As Built L2095\DRAINPRF.DGN

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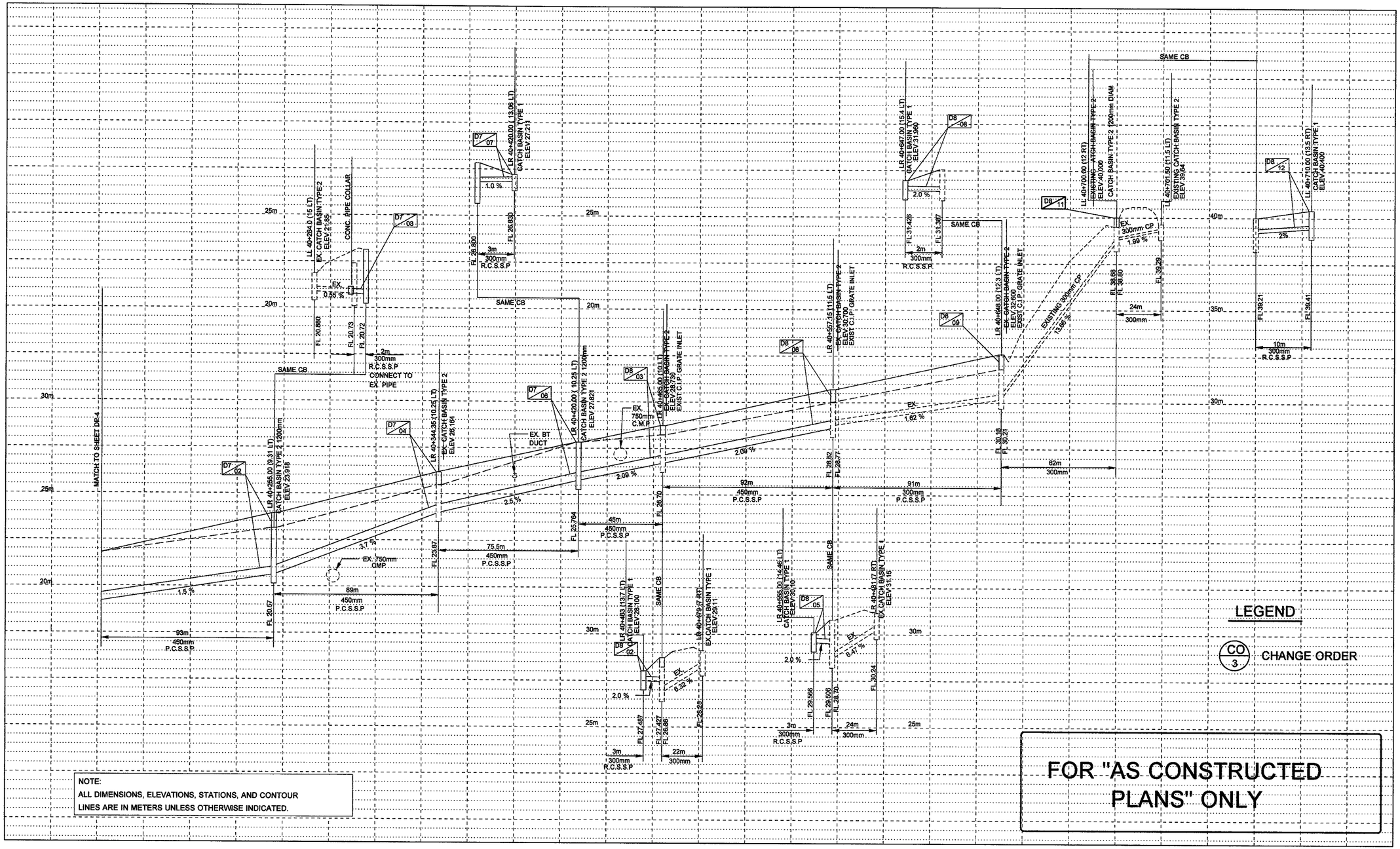

						REGION NO.	STATE	FED.AID PROJ.NO.
DESIGNED BY	F. TIMM	10/96				10	WASH	
ENTERED BY	A. NGUYEN	10/96				JOB NUMBER		
CHECKED BY	R. THURMOND	10/96				96W035		
PROJ. ENGR.	R. KINOSHITA	10/96				CONTRACT NO.		
REGIONAL ADM.	J. OKAMOTO	10/96	11/24/97	CHANGE ORDER #3	LP			
		DATE	DATE	REVISION	BY			

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE PROFILES

DP-5

SHEET 174 OF 663 SHEETS

C:\DGN\Mohab\As Built L2095\DRAINPRF.DGN

PLOT12

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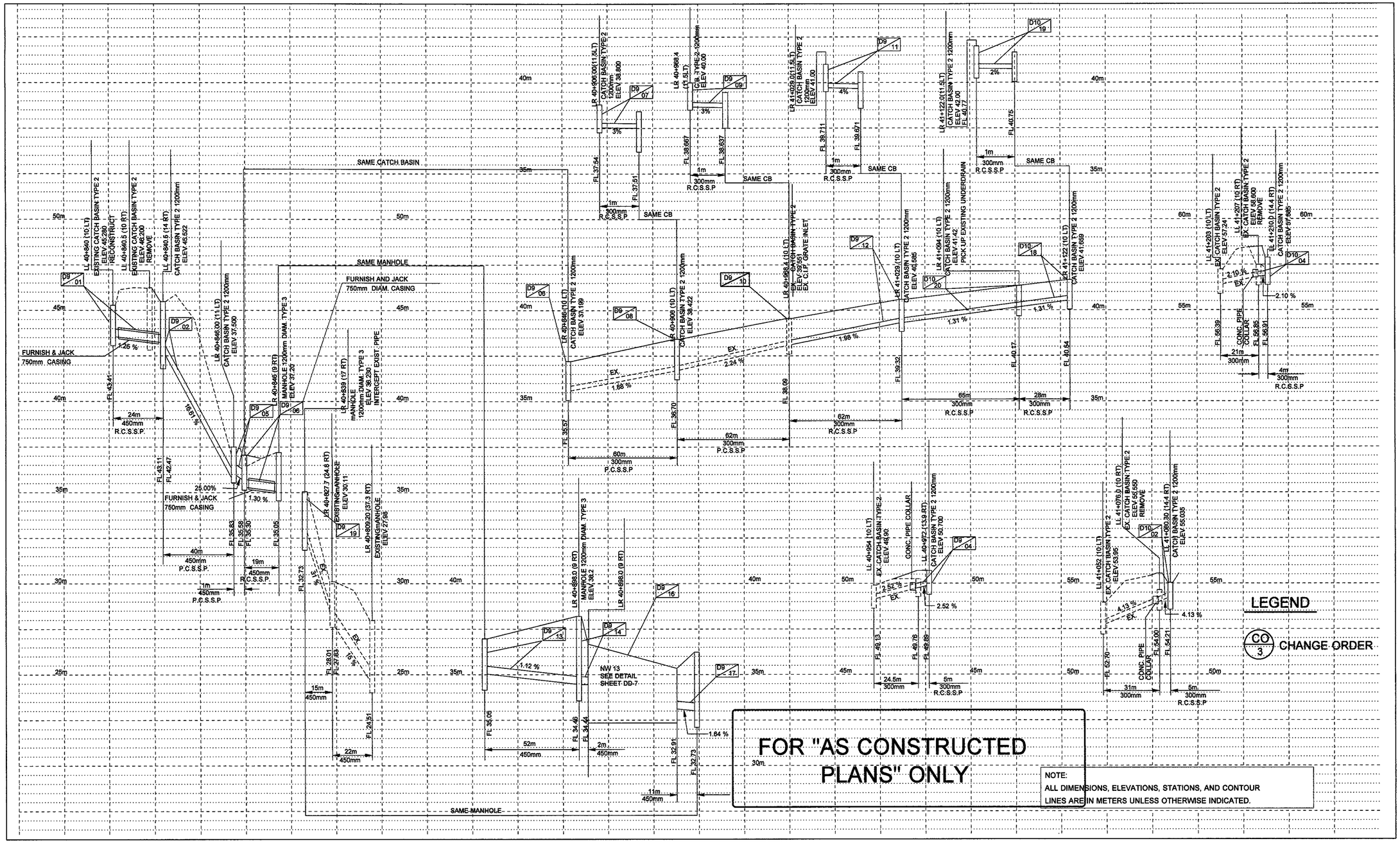
06/22/2000

SchuerP



DESIGNED BY	F. TIMM	10/96			
ENTERED BY	A. NGUYEN	10/96			
CHECKED BY	R. THURMOND	10/96			
PROJ. ENGR.	R. KINOSHITA	10/96			
REGIONAL ADM.	J. OKAMOTO	10/96	11/24/97	CHANGE ORDER #3	LP
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035

CONTRACT NO.

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE PROFILES

DP-6

SHEET 175 OF 663 SHEETS

C:\DGN\Mohab\As Built L2095\DRAINPRF.DGN

PLOT13

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06/22/2000

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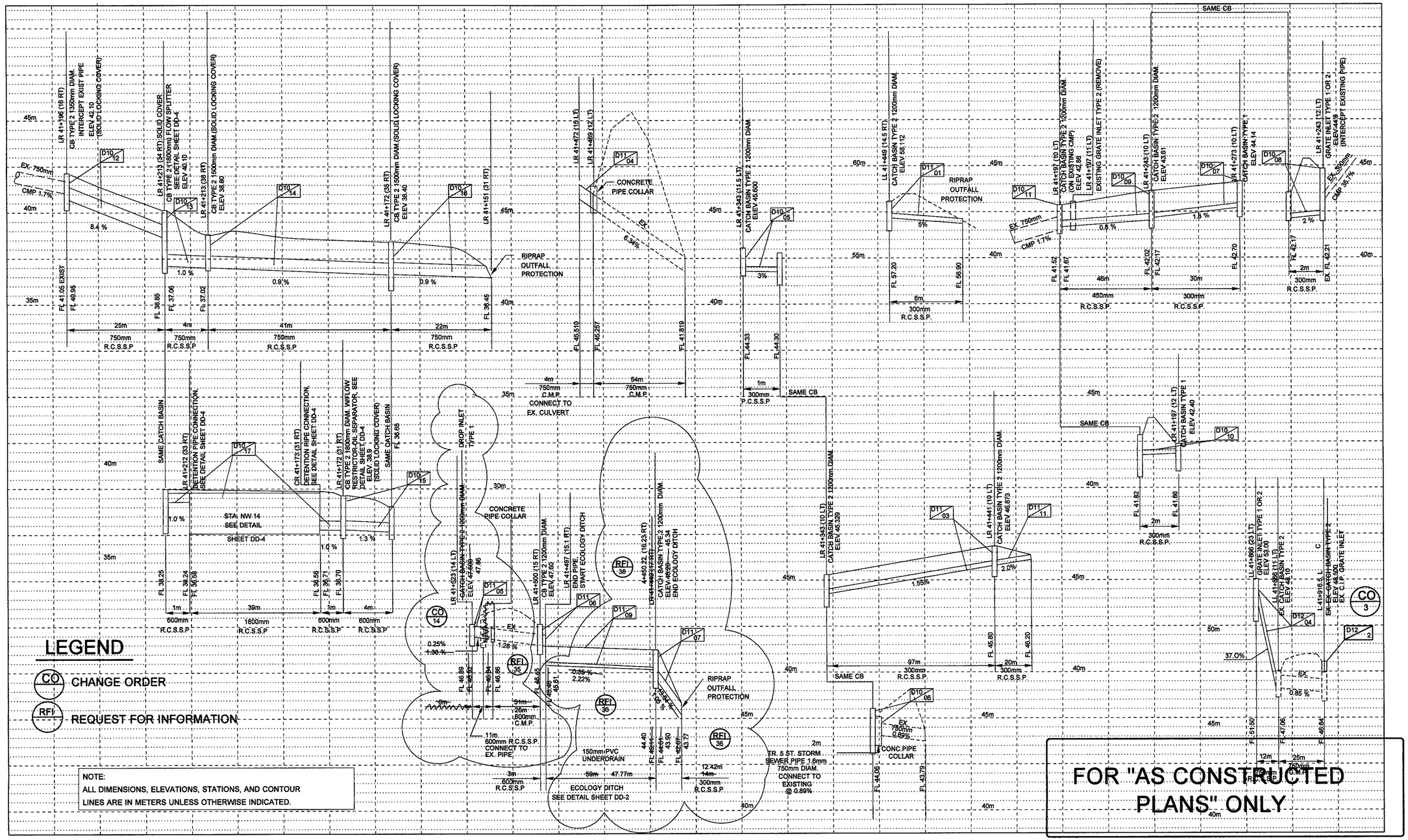

DESIGNED BY	F. TIMM	06/26/96			
ENTERED BY	A. NGUYEN	06/26/96	07/01/97	RFI #36	ALM
CHECKED BY	N. ABEDIN	06/26/96	05/17/97	RFI #35	ALM
PROJ. ENGR.	R. KINOSHITA	06/26/96	02/22/98	CHANGE ORDER #14	LP
REGIONAL ADM.	J. OKAMOTO	06/26/96	11/24/97	CHANGE ORDER #3	LP
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		96W035
CONTRACT NO.		

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK
HOV LANES - STAGE 1

DRAINAGE PROFILES

DP-7

SHEET 176 OF 663 SHEETS

C:\DGN\Mohab\As Built L2095\DRAINPRF.DGN

PLOT14

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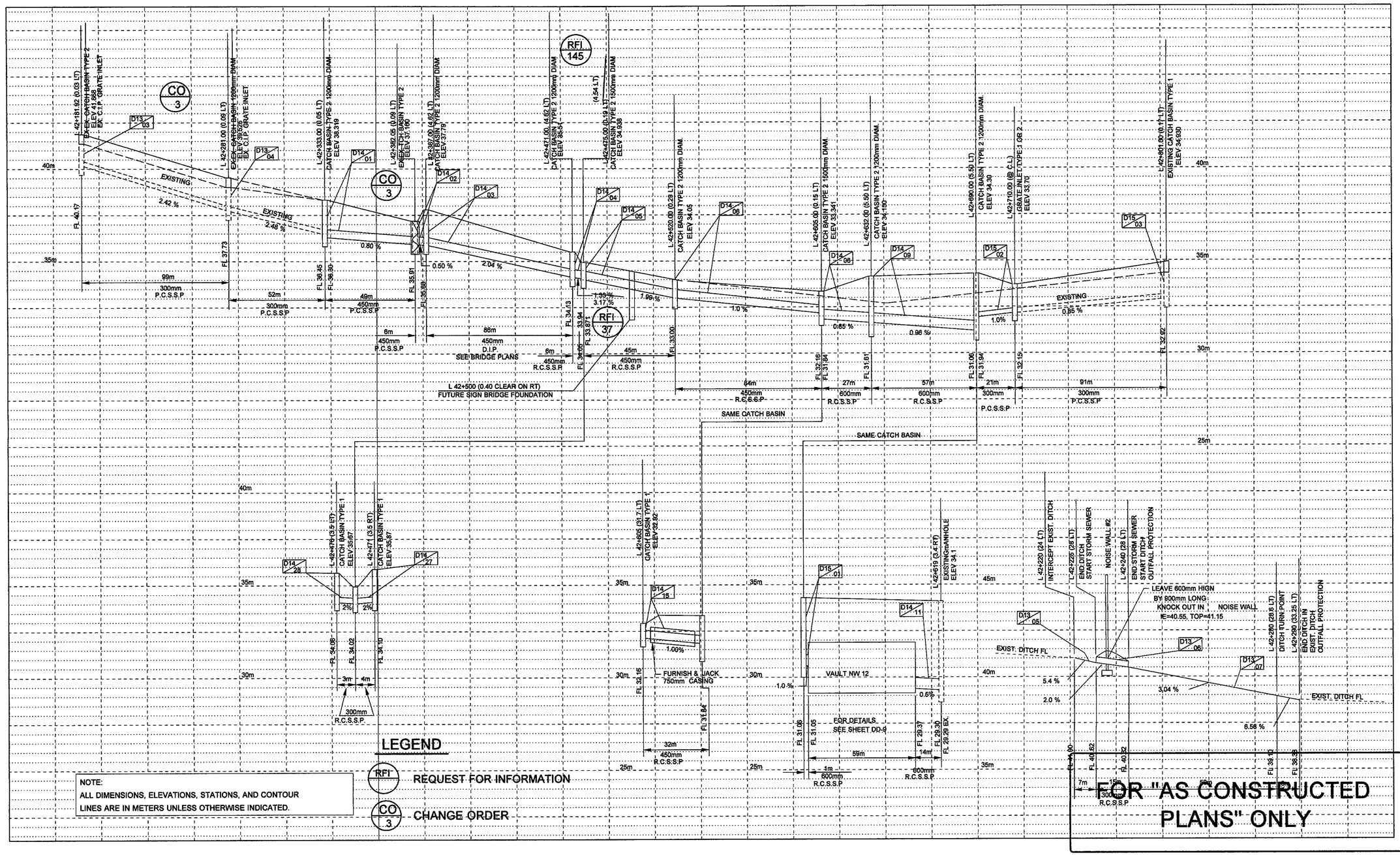
06/22/2000

SchuerP



NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

LEGEND

RFI — REQUEST FOR INFORMATION

CO 3 — CHANGE ORDER

DESIGNED BY	F. TIMM	10/96			
ENTERED BY	A. NGUYEN	10/96			
CHECKED BY	R. THURMOND	10/96	08/27/98	RFI #145	ALM
PROJ. ENGR.	R. KINOSHITA	10/96	07/07/97	RFI #37	ALM
REGIONAL ADM.	J. OKAMOTO	10/96	11/24/97	CHANGE ORDER #3	LP
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO.

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE PROFILES

DP-8

SHEET 177 OF 663 SHEETS

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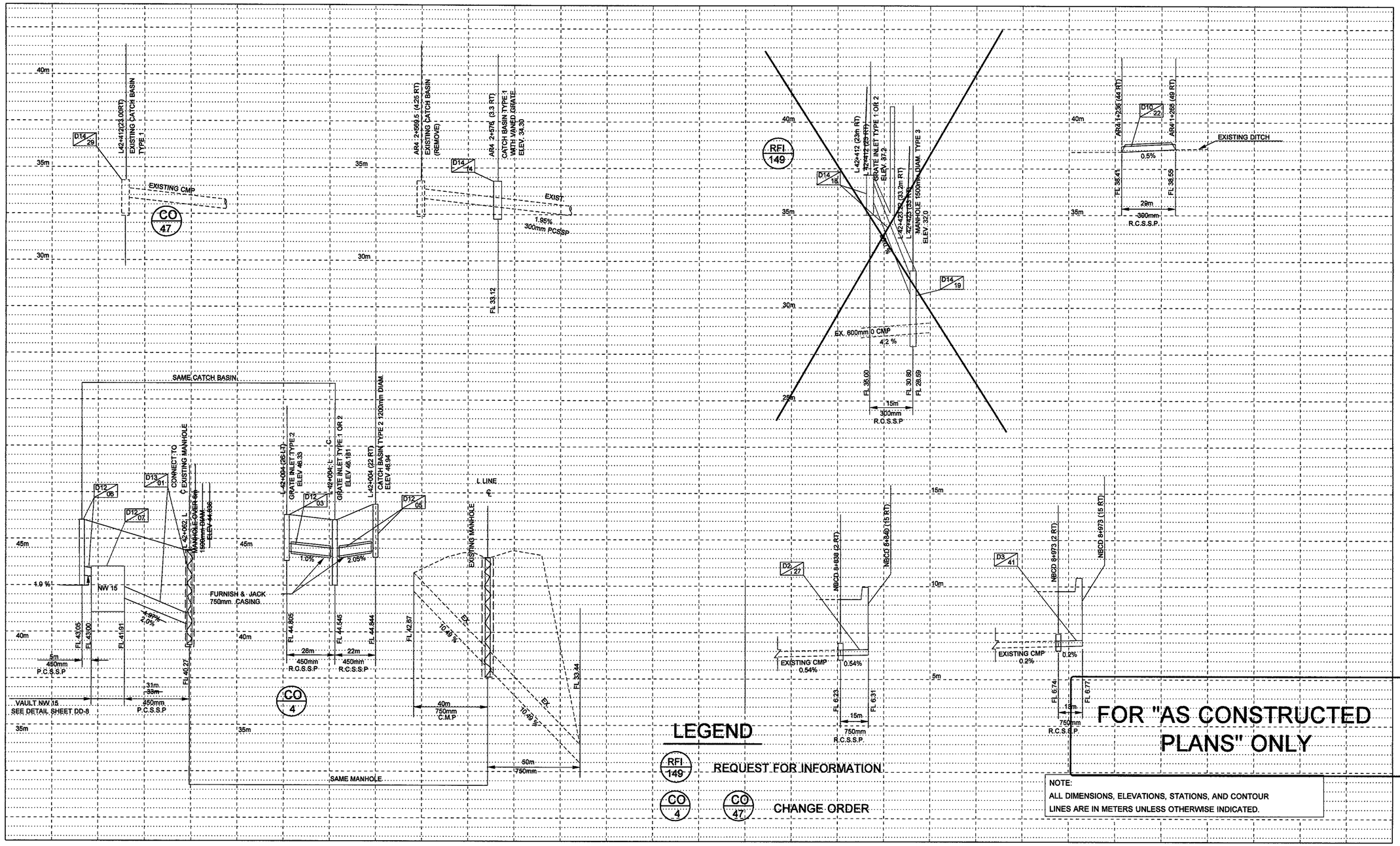


DESIGNED BY	F. TIMM	10/96			
ENTERED BY	A. NGUYEN	10/96			
CHECKED BY	R. THURMOND	10/96	11/11/98	RFI #149	ALM
PROJ. ENGR.	R. KINOSHITA	10/96	07/19/99	CHANGE ORDER #47	ALM
REGIONAL ADM.	J. OKAMOTO	10/96	07/15/97	CHANGE ORDER #4	LP
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER 96W035
CONTRACT NO.

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

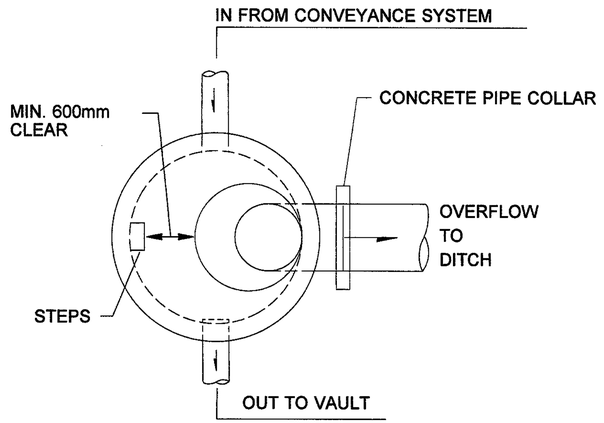
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE PROFILES

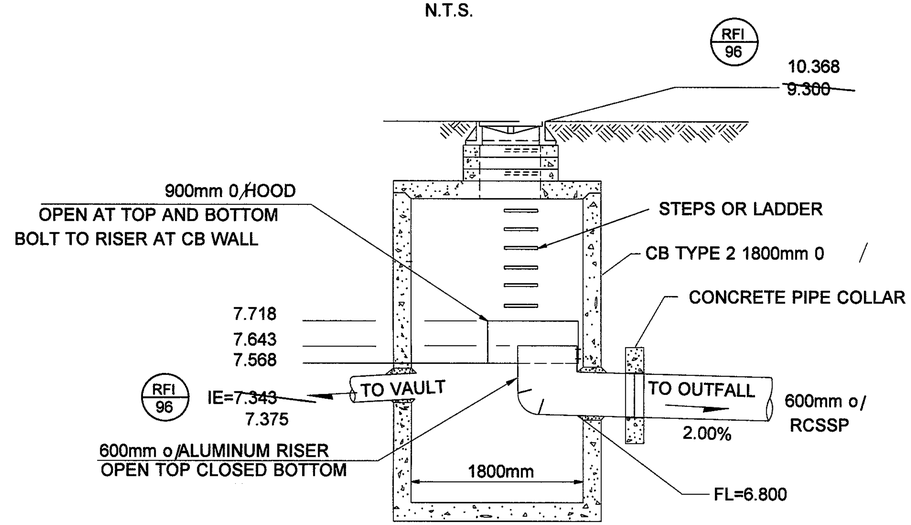
DP-9

SHEET 178 OF 663 SHEETS



PLAN VIEW

N.T.S.



LEGEND

RFI 96 — REQUEST FOR INFORMATION

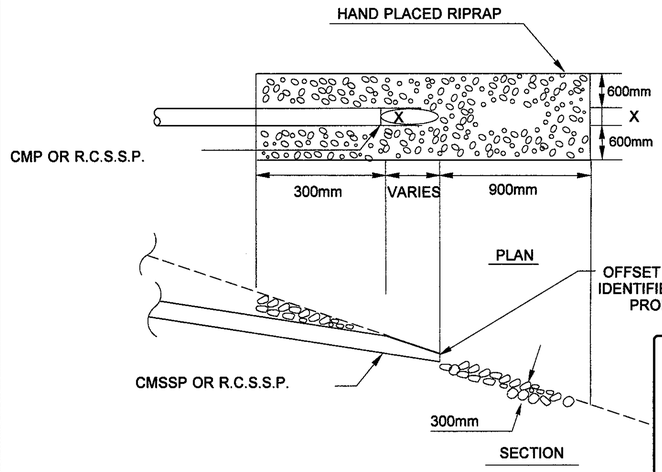
CATCH BASIN - D1/6
HIGH FLOW BYPASS

W-N RAMP STATION 8+363

SECTION VIEW

N.T.S.

NOT TO SCALE

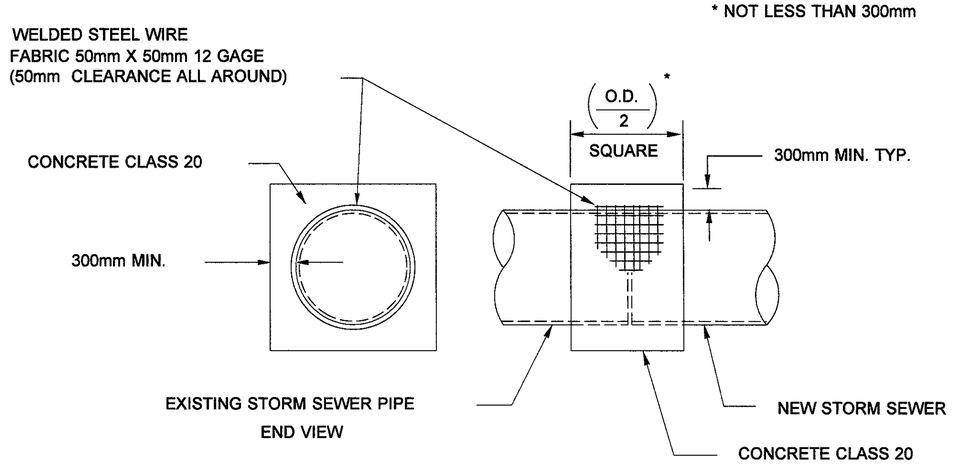


FOR "AS CONSTRUCTED PLANS" ONLY

RIPRAP OUTFALL PROTECTION DETAIL

N.T.S.

(TYPICAL)



CONCRETE PIPE COLLAR DETAIL (TYPICAL)

NOT TO SCALE

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

						REGION NO.	STATE	FED.AID PROJ.NO.
						10	WASH	
DESIGNED BY	F. TIMM	11/96				JOB NUMBER		
ENTERED BY	P. ARNOLD	11/96				96W035		
CHECKED BY	R.THURMOND	11/96				CONTRACT NO.		
PROJ. ENGR.	R.KINOSHITA	11/96						
REGIONAL ADM.	J. OKAMOTO	11/96	01/20/98	RFI #96	ALM			
		DATE	DATE	REVISION	BY			

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

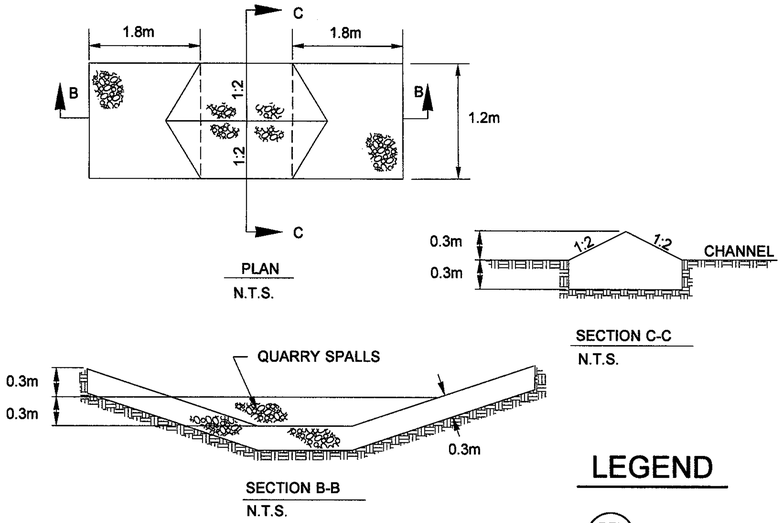
DRAINAGE DETAILS

DD-1

SHEET 179 OF 663 SHEETS

C:\DGN\Mohab\As Built L2095\DRAINDET.dgn
PLOT1
07:50:54 PM
06/21/2000
SchuerP

C:\DGN\Mohab\As Built L2095\DRAINDET.dgn
PLOT2
07:50:58 PM
06/21/2000
SchuerP



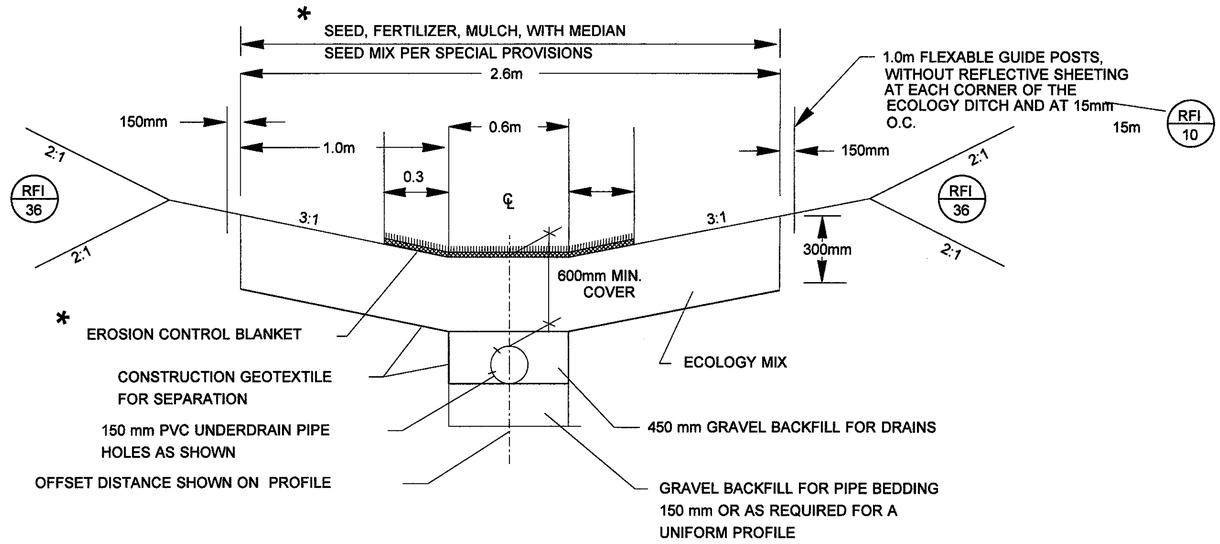
PLACE FIRST DAM @ 5m DOWNSTREAM OF START OF SWALE. PLACE FOLLOWING DAMS AT 15m O.C.

BIOFILTRATION SWALE CHECK DAMS

N.T.S.

LEGEND

RFI — REQUEST FOR INFORMATION

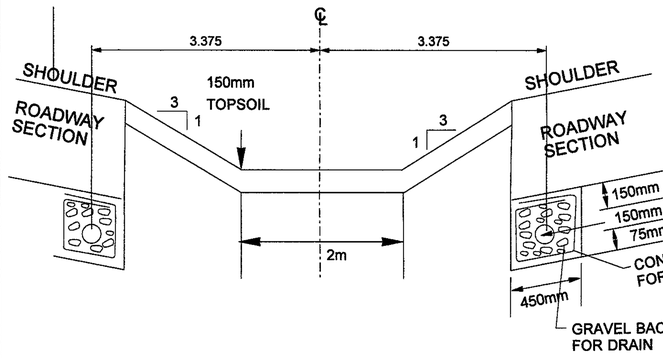


ECOLOGY DITCH CROSS SECTION

N.T.S.

SEE SHEET - D11

* FOR QUANTITIES OF SEED, FERTILIZER, AND MULCH, AS WELL AS EROSION CONTROL BLANKETS, SEE THE TEMPORARY EROSION AND SEDIMENT CONTROL PLANS & QUANTITIES.

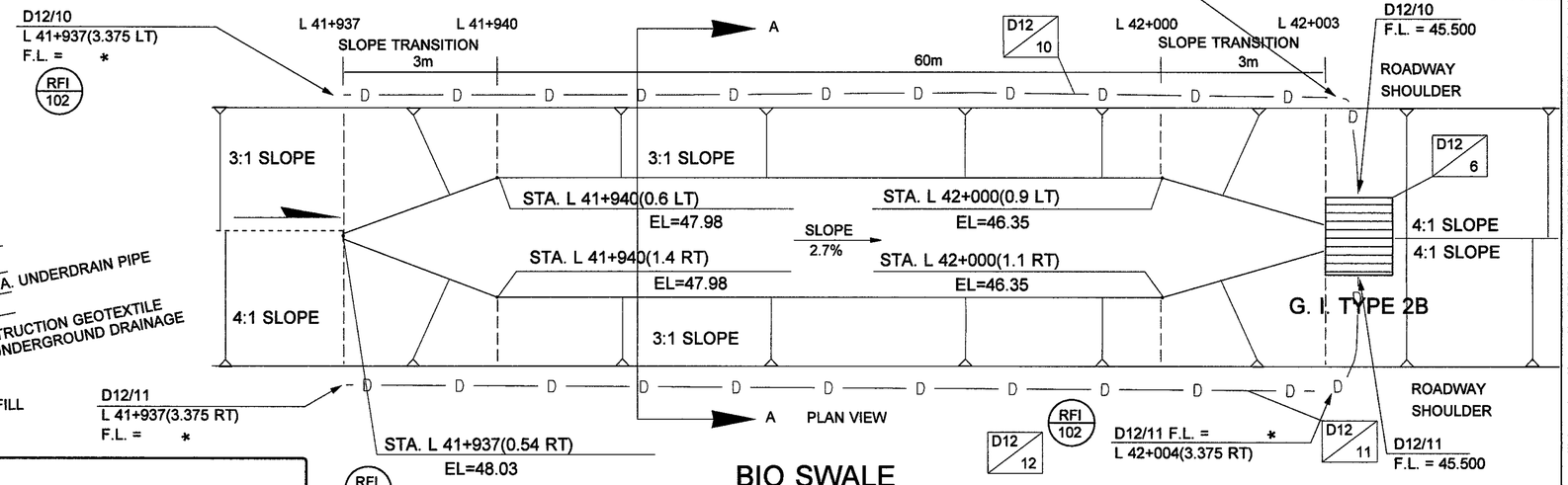


SECTION A-A

N.T.S.

PLANT WITH MEDIAN SEED MIX PER SPECIAL PROVISIONS

FOR "AS CONSTRUCTED PLANS" ONLY



BIO SWALE

L 41+945 TO L 42+003

SEE SHEET - D12

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

						REGION NO.	STATE	FED.AID PROJ.NO.
DESIGNED BY	F. TIMM	11/96				10	WASH	
ENTERED BY	P. ARNOLD	11/96						
CHECKED BY	R.THURMOND	11/96	02/19/98	RFI #102	ALM	96W035		
PROJ. ENGR.	R.KINOSHITA	11/96	07/01/97	RFI #36	ALM			
REGIONAL ADM.	J. OKAMOTO	11/96	04/17/97	RFI #10	ALM			
		DATE	DATE	REVISION	BY			

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

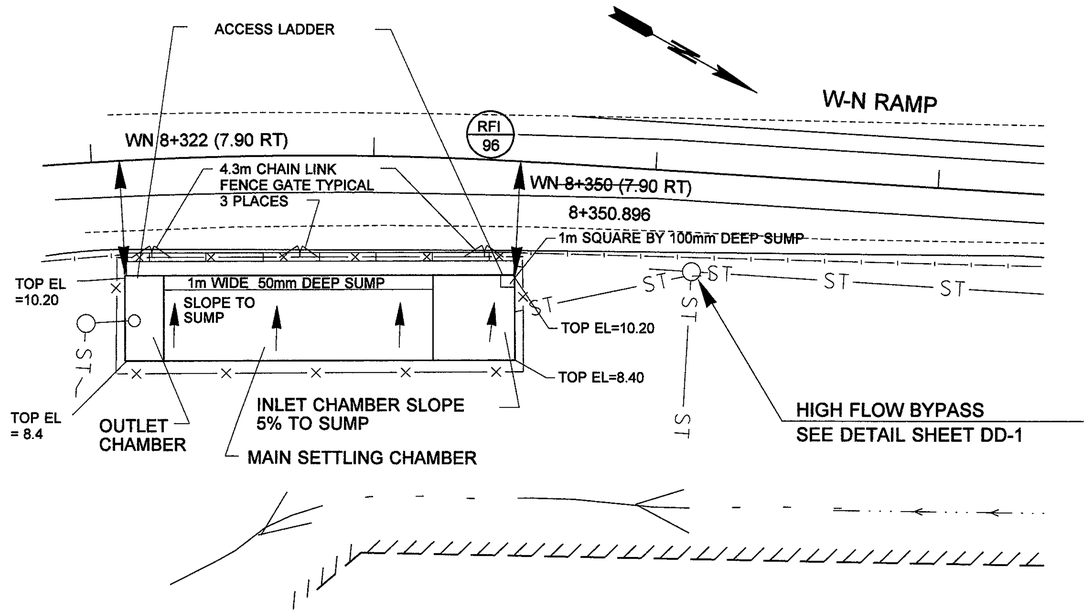
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

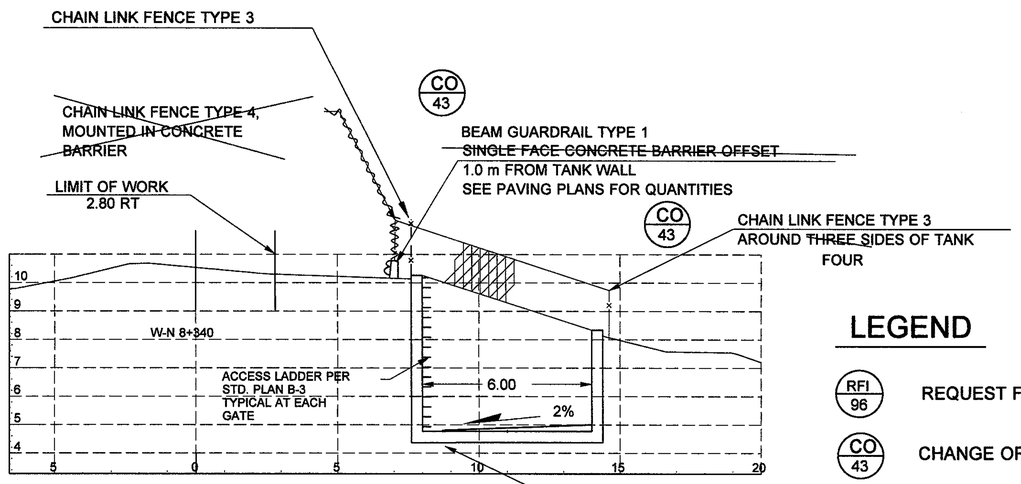
DRAINAGE DETAILS

DD-2

SHEET 180 OF 663 SHEETS



PLAN VIEW
NW-6

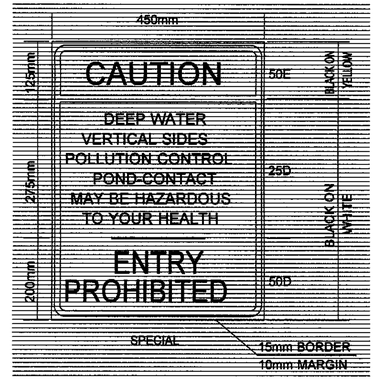


TRANSVERSE SECTION
STA W-N 8+340

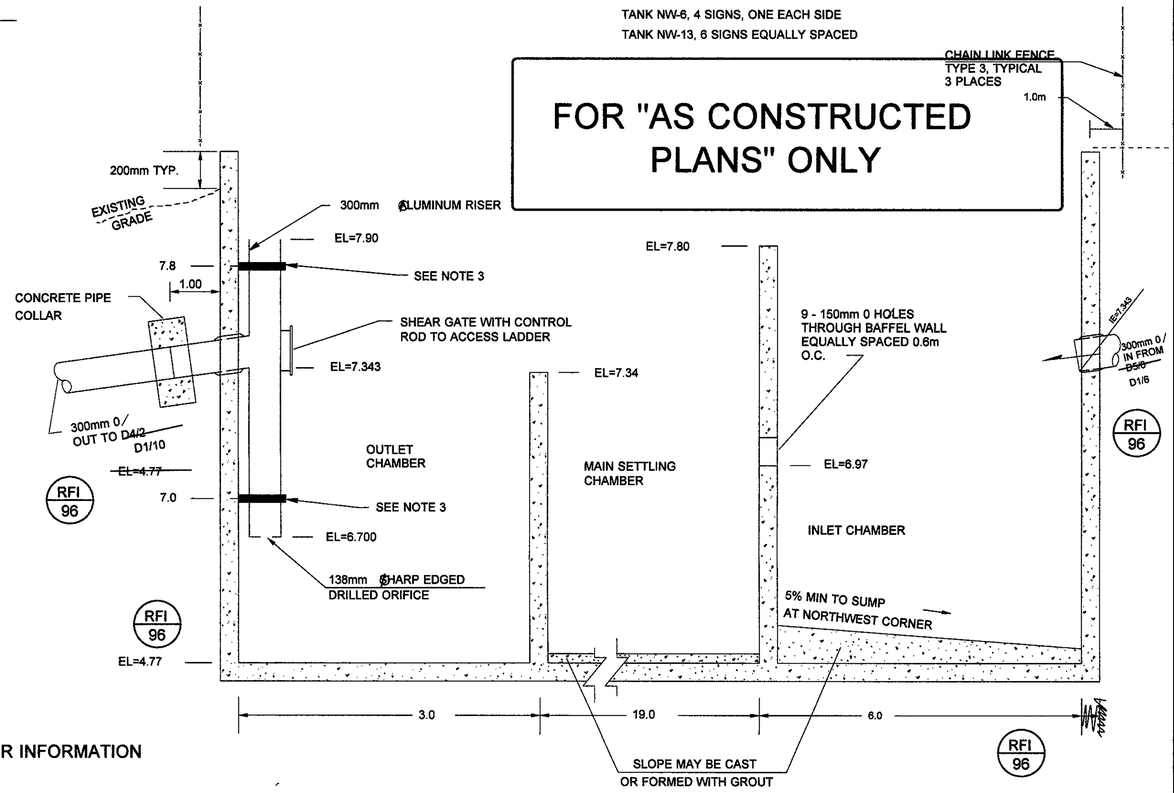
NOT TO SCALE

NOTES:

1. RISER TO BE FABRICATED FROM ALUMINUM 1.53mm THICK.
2. SEE BRIDGE PLANS FOR TANK CONSTRUCTION.
3. PIPE SUPPORTS TO BE 75mm X 1.91mm ALUMINUM. EMBED 50mm INTO CONCRETE OR BOLT WITH 16mm DIAM. STAINLESS STEEL EXPANSION BOLTS.
4. CONSTRUCT SHEAR GATES PER STD. PLAN B-3.



SIGN PLACEMENT:
TANK NW-6, 4 SIGNS, ONE EACH SIDE
TANK NW-13, 6 SIGNS EQUALLY SPACED



FOR "AS CONSTRUCTED PLANS" ONLY

LEGEND

RFI 96 — REQUEST FOR INFORMATION

CO 43 — CHANGE ORDER

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

LONGITUDINAL SECTION
N.T.S. (TYPICAL)

						REGION NO.	STATE	FED.AID PROJ.NO.
						10	WASH	
DESIGNED BY	F. TIMM	11/96						
ENTERED BY	P. ARNOLD	11/96				JOB NUMBER		
CHECKED BY	R.THURMOND	11/96	04/07/99	CHANGE ORDER #43	ALM	96W035		
PROJ. ENGR.	R.KINOSHITA	11/96	01/20/98	RFI #96	ALM	CONTRACT NO.		
REGIONAL ADM.	J. OKAMOTO	11/96		~~REVISED CAUTION SIGN~~ DM				
		DATE	DATE	REVISION	BY			

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

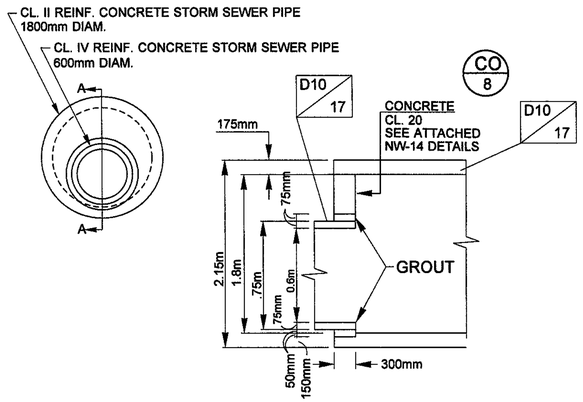
DRAINAGE DETAILS

DD-3

SHEET 181 OF 663 SHEETS

C:\DGN\Mohab\As Built L2095\DRAINDET.dgn
PLOT3
07:51:02 PM
06/21/2000
SchuerP

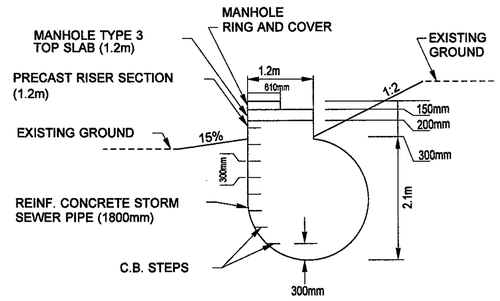
C:\DGN\Mohab\As Built L2095\DRAINDET.dgn
PLOT14
07:51:20 PM
06/21/2000
SchuerP



SECTION A-A

DETENTION PIPE CONNECTION

N.T.S.

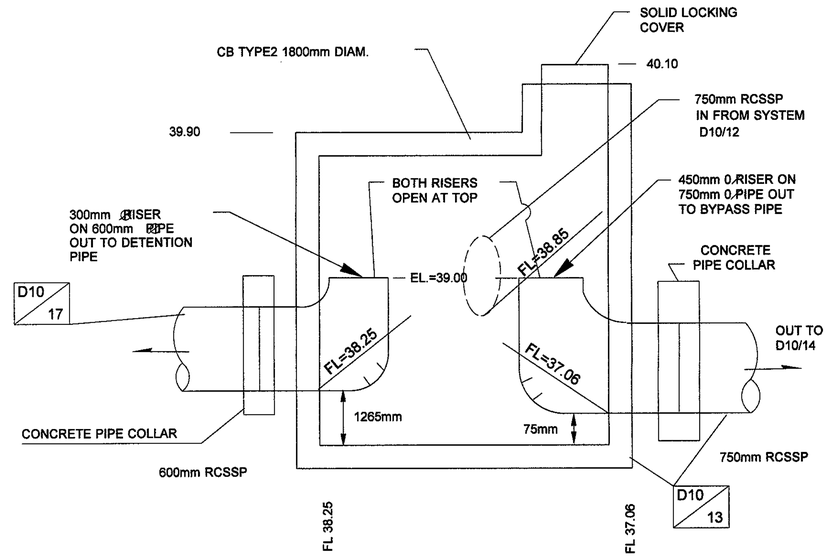


PLACE ACCESS RISER AT MIDPOINT OF PIPE AND 15m EACH WAY FROM MIDPOINT

ACCESS RISER

N.T.S.

NOTE: SEE STANDARD PLAN B-23d FOR DETAILS NOT SHOWN



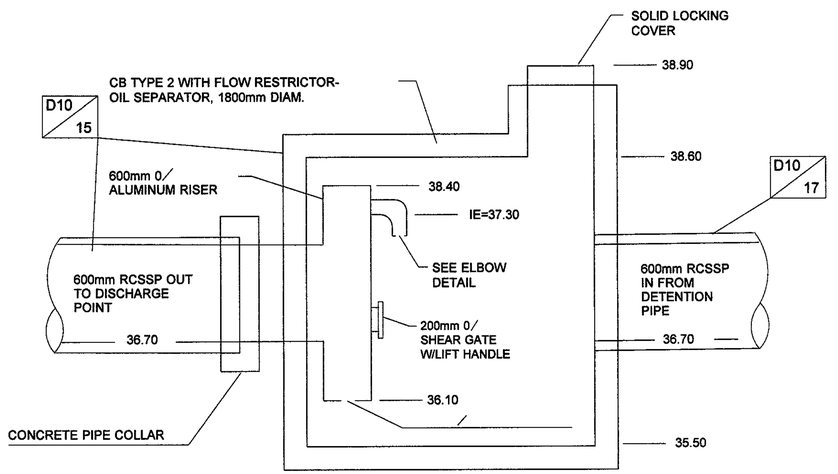
CATCH BASIN - D10/13 FLOW SPLITTER

N.T.S.

1. CONSTRUCT RISERS OF ALUMINUM. TRANSITION TO FULL SIZE OUTLET. PIPE AT OR PRIOR TO ELBOW.
2. SET TOP OF BOTH RISER PIPES AT EXACTLY THE SAME ELEV.

NW-14 ACCESS ROADWAY

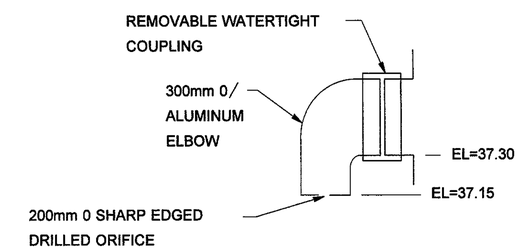
N.T.S.



SEE STANDARD PLAN B-3

CATCH BASIN - D10/15 CONTROL STRUCTURE

N.T.S.



ELBOW DETAIL

N.T.S.

LEGEND

CO 8 — CHANGE ORDER

FOR "AS CONSTRUCTED PLANS" ONLY

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

					REGION NO.	STATE	FED.AID PROJ.NO.
					10	WASH	
DESIGNED BY					JOB NUMBER		
ENTERED BY					96WO35		
CHECKED BY					CONTRACT NO.		
PROJ. ENGR.							
REGIONAL ADM.		09/09/97	CHANGE ORDER #8	ALM			
	DATE	DATE	REVISION	BY			

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

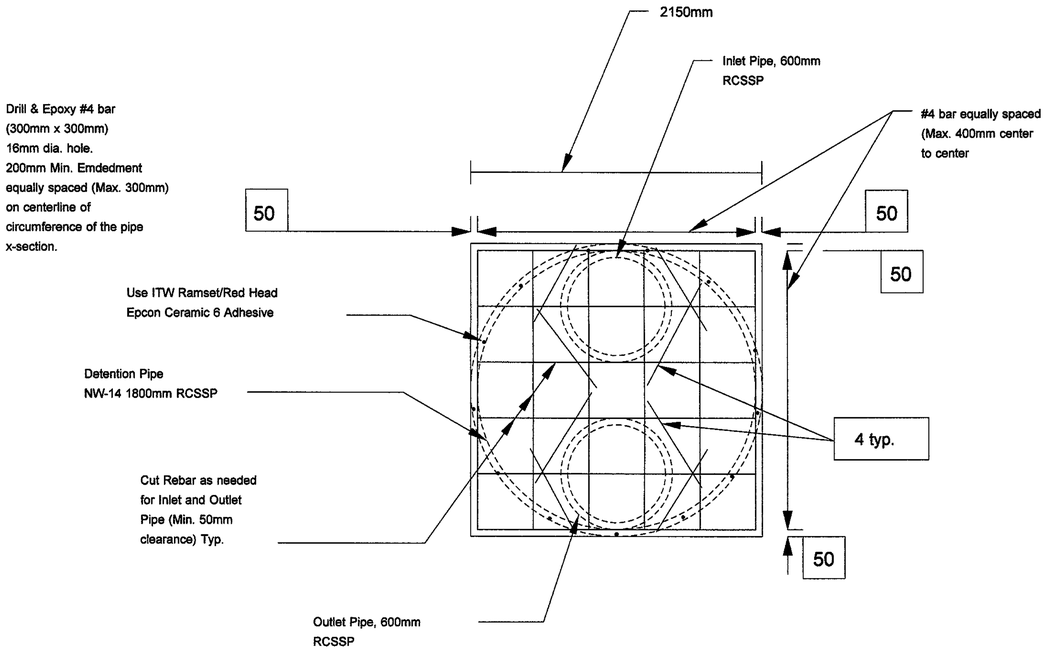
SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE DETAILS

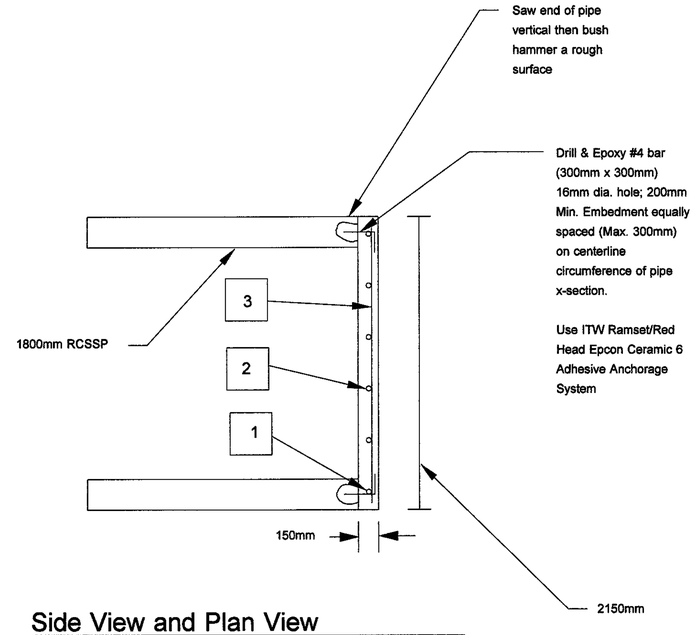
DD-4A

SHEET 182 OF 663 SHEETS

C:\DGN\Mohab\As Built L2095\DRAINDET.dgn
PLOT15
07:51:25 PM
06/21/2000
SchuerP



Cross Section
N.T.S.



Side View and Plan View
N.T.S.

NW-14 DETAIL (SEE ATTACHED)

N.T.S.

BAR LIST

1	42 #4 BAR 300mmx300mm
2	12 #4 BAR 2050mm
3	12 #4 BAR 2050mm
4	16 #4 BAR 900mm

FOR "AS CONSTRUCTED PLANS" ONLY

					REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
					10	WASH		
DESIGNED BY					JOB NUMBER			Washington State Department of Transportation
ENTERED BY					96W035			
CHECKED BY					CONTRACT NO.			
PROJ. ENGR.		09/09/97	CHANGE ORDER #8	ALM				
REGIONAL ADM.		04/14/97	RFI#8	ALM				
	DATE	DATE	REVISION	BY				

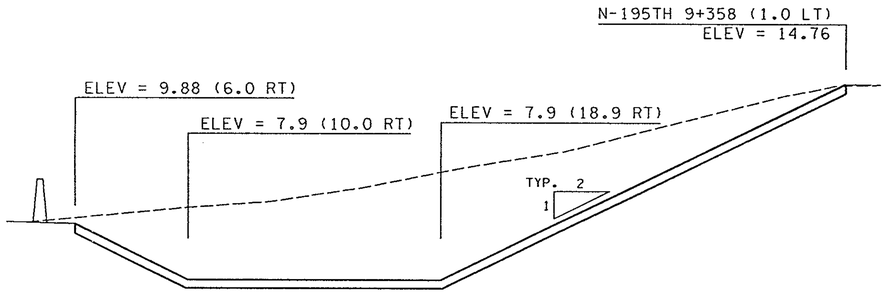
SR 405
BOTHELL TO SWAMP CREEK I/C
HOV - STAGE 1

DRAINAGE DETAILS

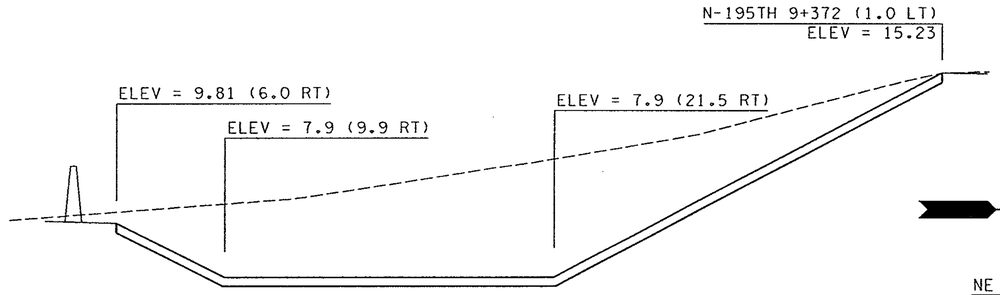
DD-4A

SHEET 182A OF 663 SHEETS

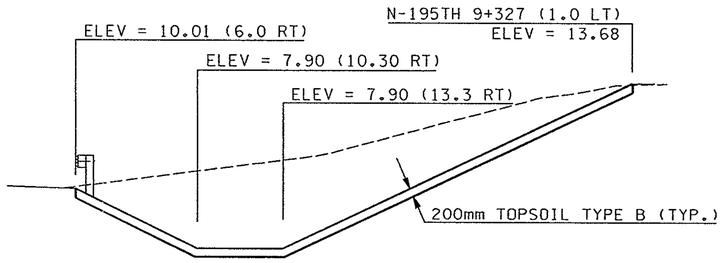
PLOT: Sat Nov 09 09:14:13 1996 D412347 T:\412347\A\OF1U-5.PLT
PLOTS 09 NOV 96 s:\412347\12095\drainDet.dgn 412347



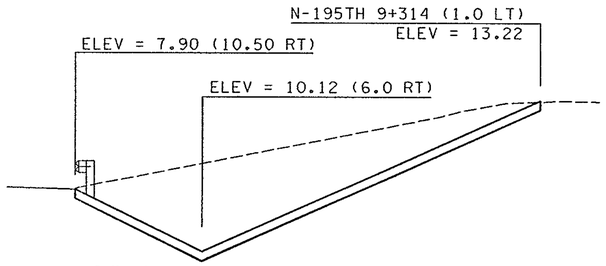
DD NBCD 9+360



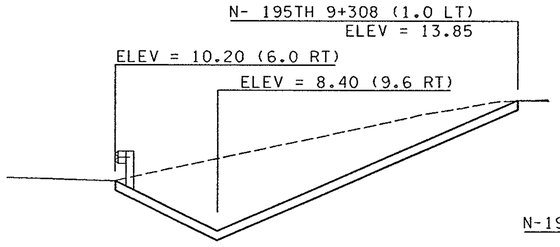
EE NBCD 9+375



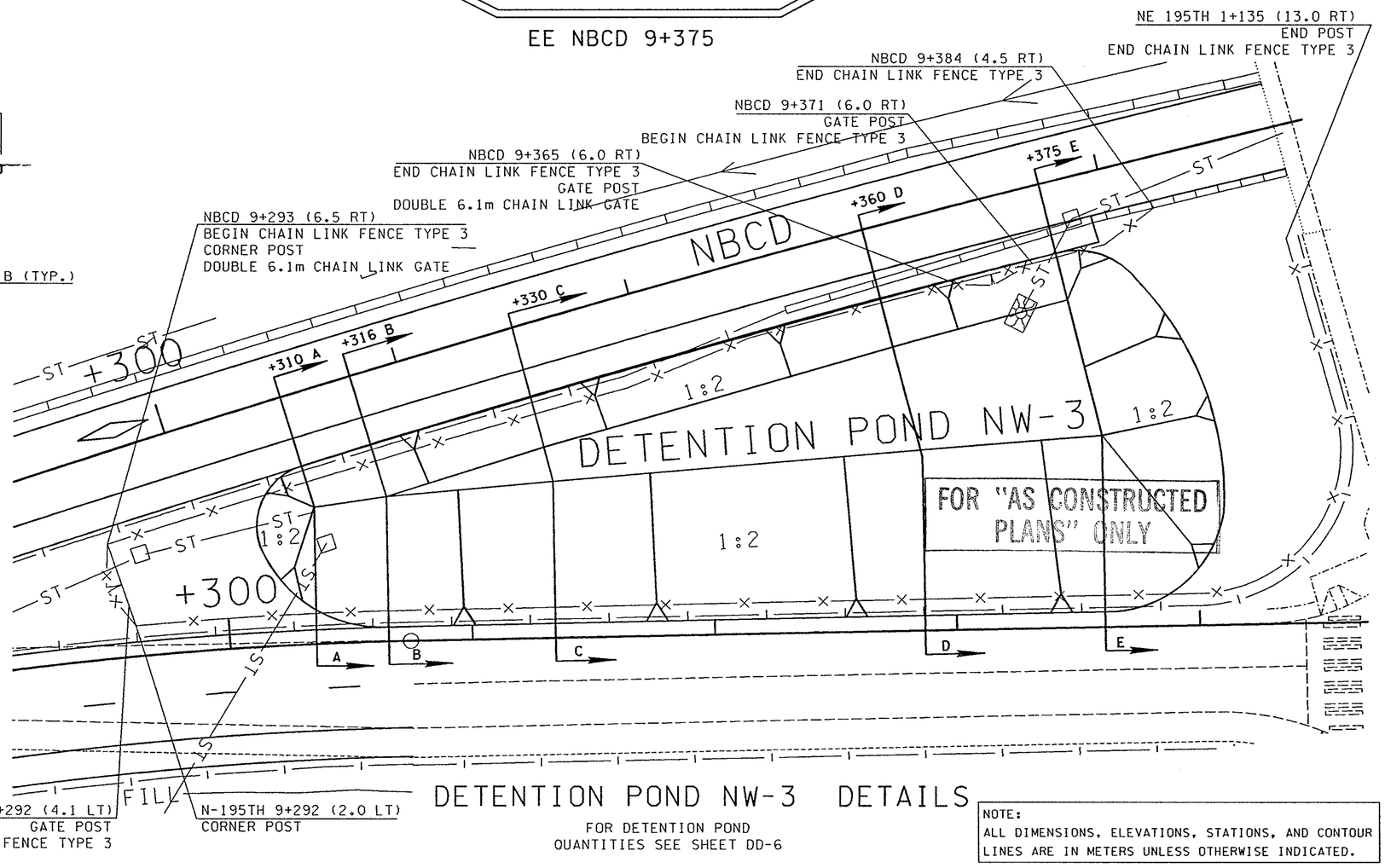
CC NBCD 9+330



BB NBCD 9+316



AA NBCD 9+310



DETENTION POND NW-3 DETAILS

FOR DETENTION POND
QUANTITIES SEE SHEET DD-6

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

DESIGNED BY	F. TIMM	11/96			
ENTERED BY	P. ARNOLD	11/96			
CHECKED BY	R.THURMOND	11/96			
PROJ. ENGR.	R.KINOSHITA	11/96			
REGIONAL ADM.	J. OKAMOTO	11/96			
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER	96W035	
CONTRACT NO.	5054	

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

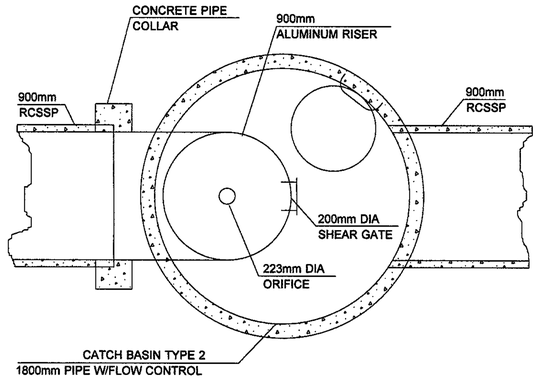
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE DETAILS

DD-5

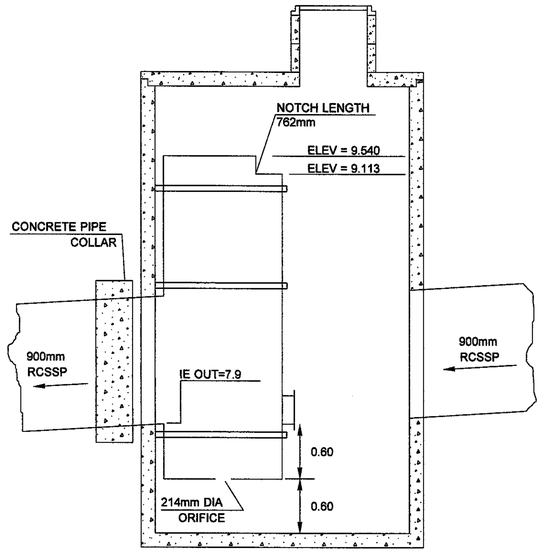
SHEET 183 OF 663 SHEETS



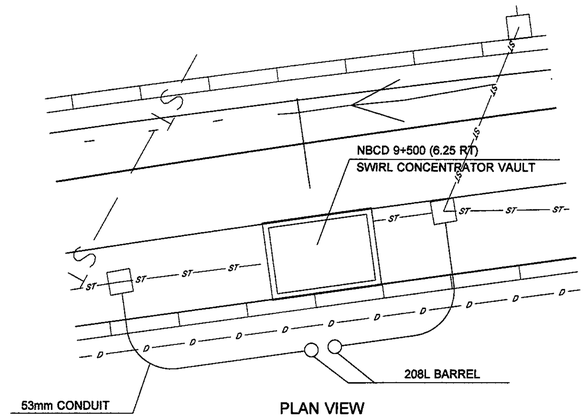
PLAN VIEW

DRAINAGE STRUCTURE
~~D4/20~~
D4/6

RFI 18

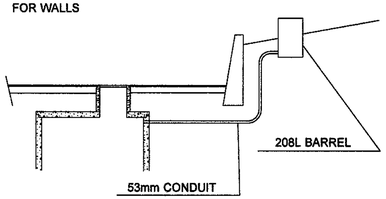


ELEVATION VIEW



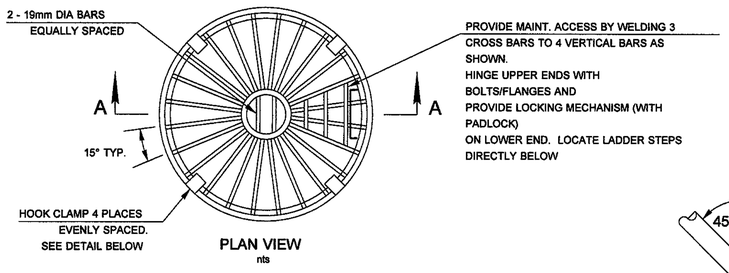
PLAN VIEW

SEAL CONDUIT WATER TIGHT
BOTH ENDS, BURY MIN. HALF
OF BARREL IN SOIL. PLACE ON
100mm DEPTH GRAVEL BACKFILL
FOR WALLS

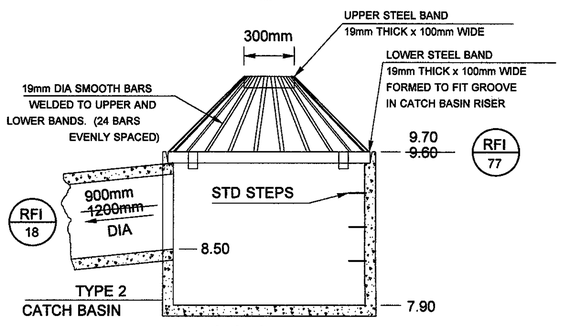


ELEVATION VIEW

SWIRL CONCENTRATOR DETAIL
SEE SPECIAL PROVISIONS

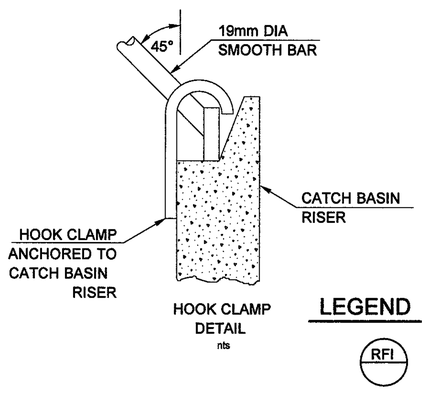


PLAN VIEW
nts



SECTION A-A
nts

NOTE:
METAL PARTS SHALL BE CORRISION
RESISTANT



HOOK CLAMP
DETAIL
nts

LEGEND

RFI — REQUEST FOR INFORMATION

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

FOR "AS CONSTRUCTED PLANS" ONLY

ITEM	QUANTITY
POND EXCAVATION INCLUDING HAUL	3,380 M3
QUARRY SPALLS	0.3 M3
TOPSOIL TYPE B	336 M3
CHAIN LINK FENCE TYPE 3	212 M
END, CORNER, AND PULL POSTS FOR CHAIN LINK FENCE	7 EA
DOUBLE 6.1m CHAIN LINK GATE	2 EA

DETENTION POND NW-3 QUANTITY TABULATION

FOR DETENTION POND
NW-3 DETAILS, SEE SHEET DD-5

						REGION NO.	STATE	FED.AID PROJ.NO.
DESIGNED BY	F. TIMM	10/96				10	WASH	
ENTERED BY	P. ARNOLD	10/96						
CHECKED BY	R.THURMOND	10/96						
PROJ. ENGR.	R.KINOSHITA	10/96	09/11/97	RFI #77	ALM			
REGIONAL ADM.	J. OKAMOTO	10/96	05/01/97	RFI #18	ALM			
		DATE	DATE	REVISION	BY			

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

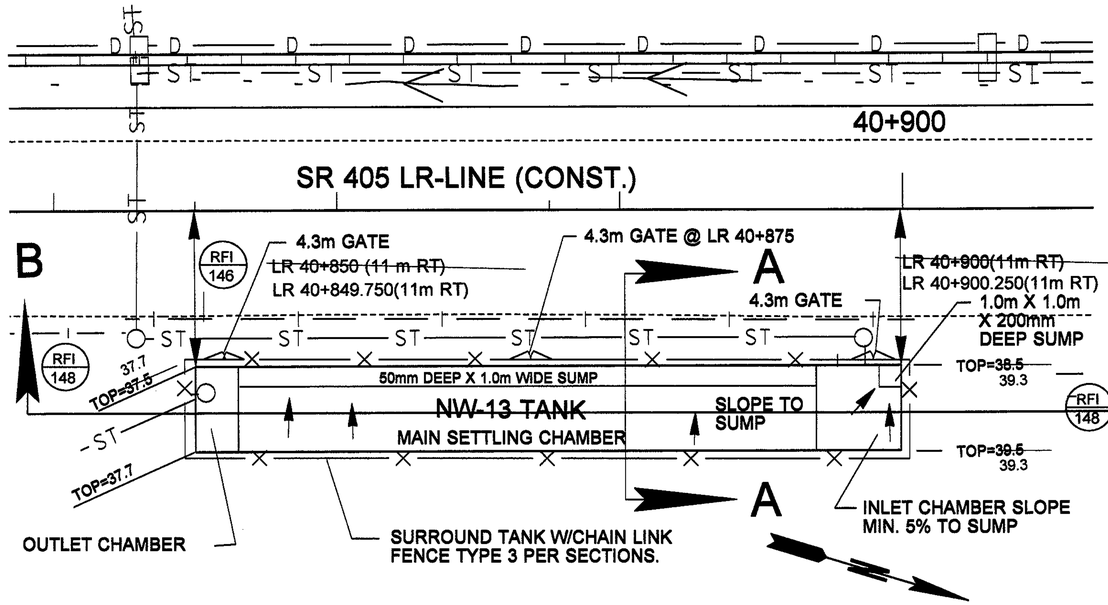
SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE DETAILS

DD-6

SHEET 184 OF 663 SHEETS

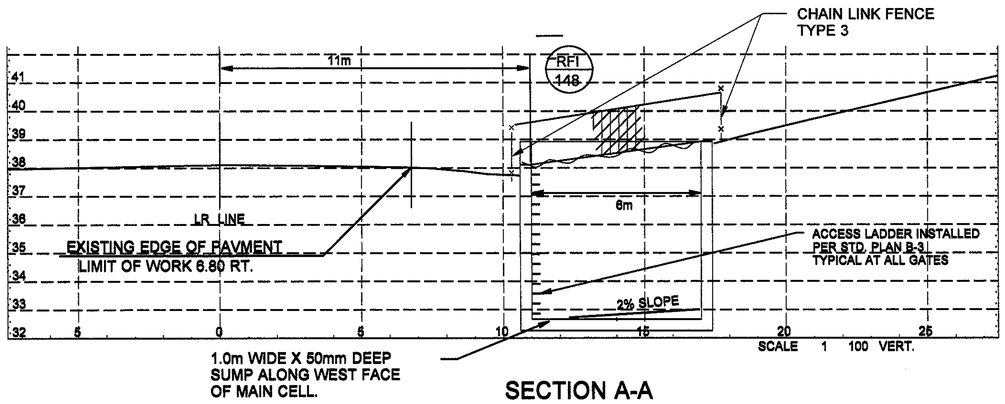
C:\DGN\Mohab\As Built L2095\DRAINDET.dgn
PLOT6
07:51:06 PM
06/21/2000
SchuerP



PLAN VIEW
NW-13

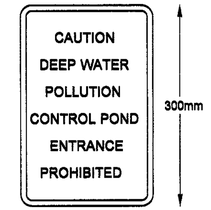
LEGEND

RFI — REQUEST FOR INFORMATION

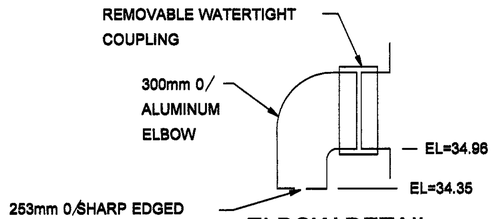


SECTION A-A

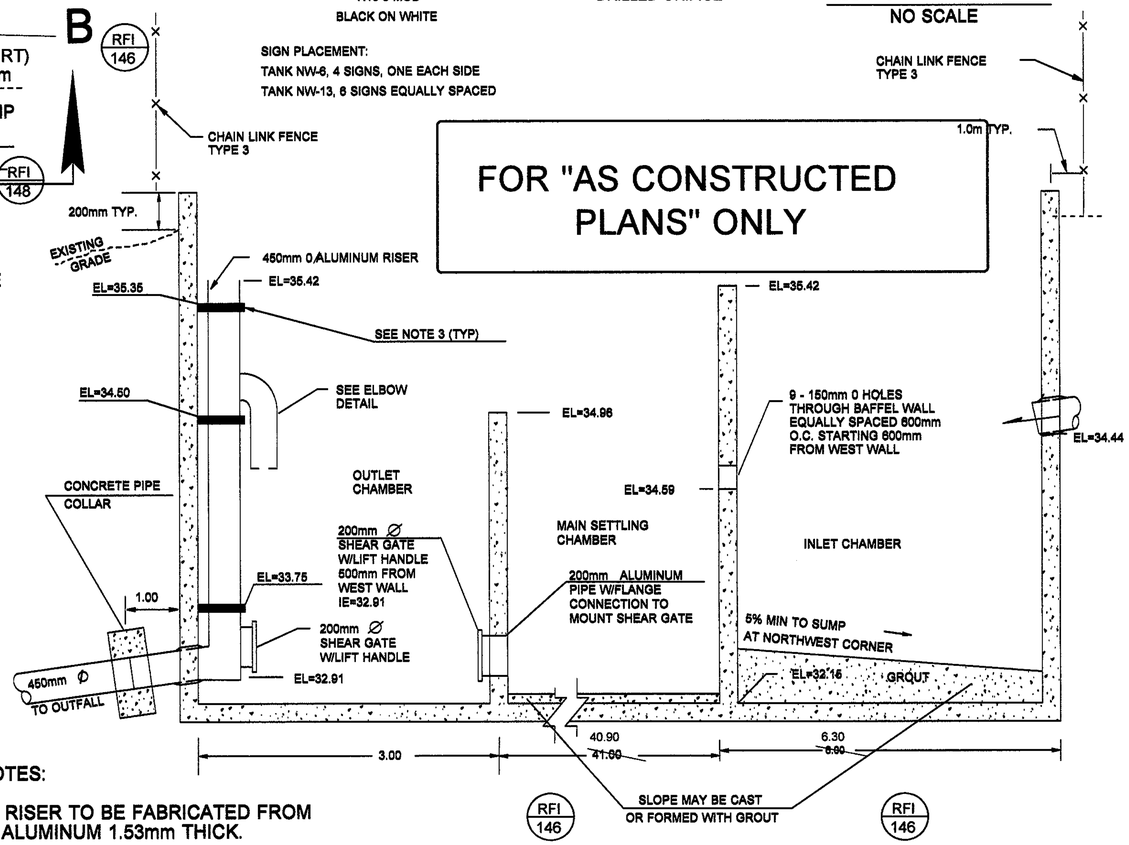
40+880



SIGN PLACEMENT:
TANK NW-6, 4 SIGNS, ONE EACH SIDE
TANK NW-13, 6 SIGNS EQUALLY SPACED



ELBOW DETAIL
NO SCALE



SECTION B-B
N.T.S.

FOR "AS CONSTRUCTED PLANS" ONLY

NOTES:

1. RISER TO BE FABRICATED FROM ALUMINUM 1.53mm THICK.
2. SEE BRIDGE PLANS FOR TANK CONSTRUCTION.
3. PIPE SUPPORTS TO BE 75mm X 1.91mm ALUMINUM. EMBED 50mm INTO CONCRETE OR BOLT WITH 16mm DIAM. STAINLESS STEEL EXPANSION BOLTS.
4. CONSTRUCT SHEAR GATES PER STD. PLAN B-3.

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

						REGION NO.	STATE	FED.AID PROJ.NO.
DESIGNED BY	F. TIMM	11/96				10	WASH	
ENTERED BY	P. ARNOLD	11/96				JOB NUMBER		
CHECKED BY	R.THURMOND	11/96				96W035		
PROJ. ENGR.	R.KINOSHITA	11/96	10/12/98	RFI #148	ALM	CONTRACT NO.		
REGIONAL ADM.	J. OKAMOTO	11/96	09/30/98	RFI #146	ALM			
		DATE	DATE	REVISION	BY			

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE DETAILS

DD-7

SHEET 185 OF 663 SHEETS

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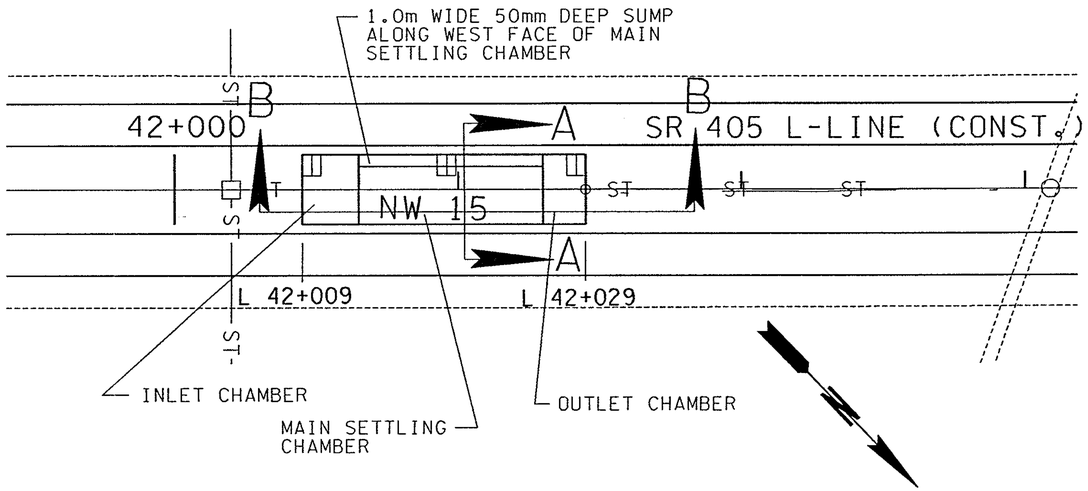
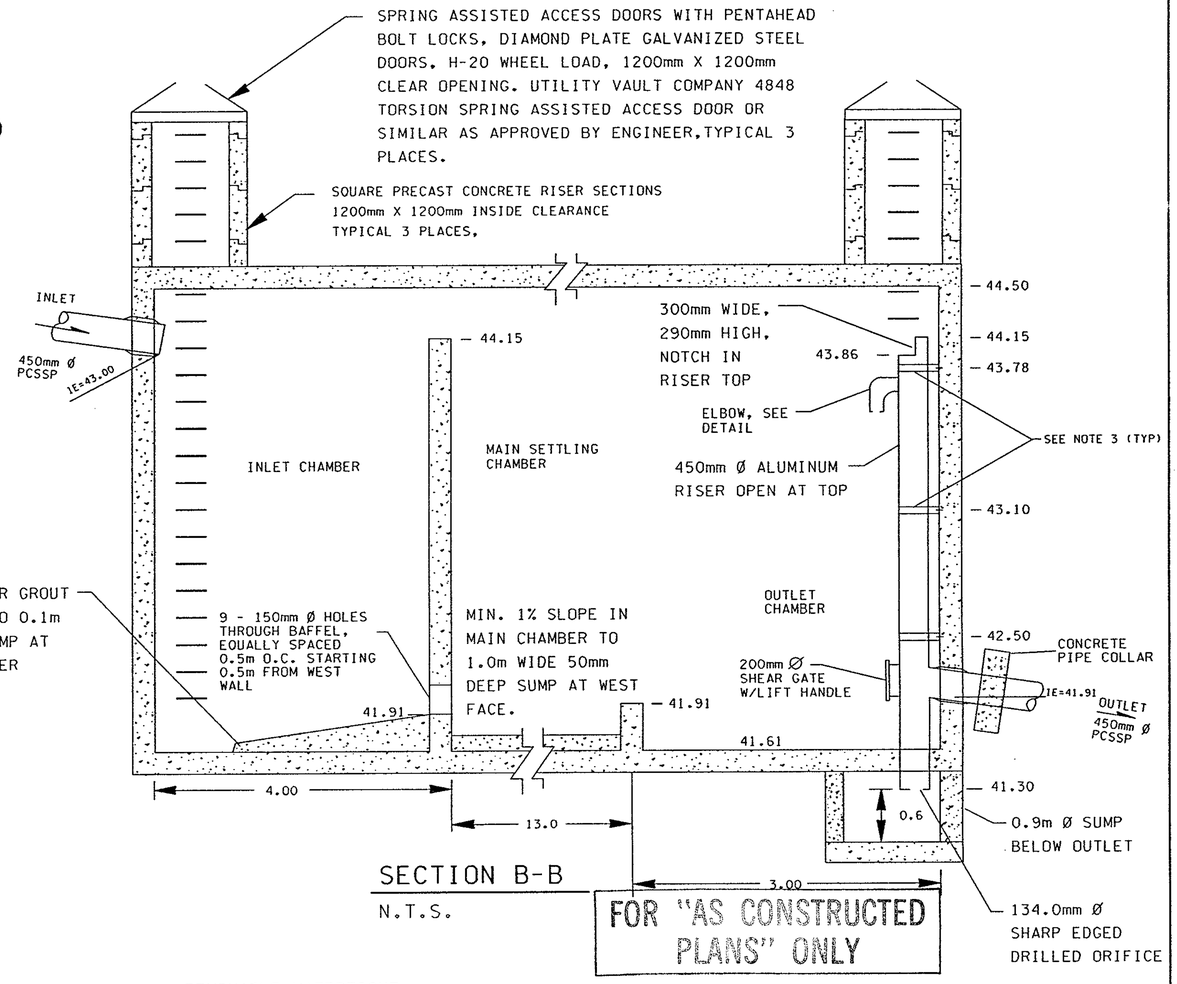
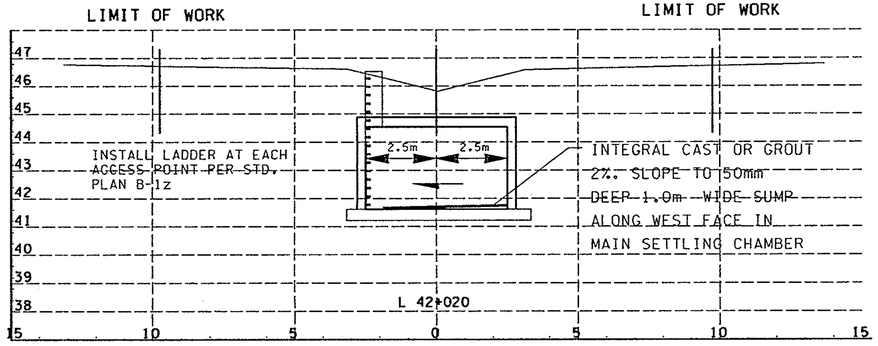


PLAN VIEW
NW-15



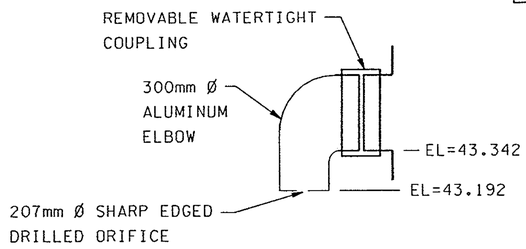
SECTION B-B
N.T.S.

FOR "AS CONSTRUCTED PLANS" ONLY



SECTION A-A

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.



ELBOW DETAIL
N.T.S.

NOTES:

1. RISER TO BE FABRICATED FROM ALUMINUM 1.53mm THICK.
2. SEE BRIDGE PLANS FOR TANK CONSTRUCTION.
3. PIPE SUPPORTS TO BE 75mm X 1.91mm ALUMINUM. EMBED 50mm INTO CONCRETE OR BOLT WITH 16mm DIAM. STAINLESS STEEL EXPANSION BOLTS.
4. CONSTRUCT SHEAR GATES PER STD. PLAN B-3.

DESIGNED BY	F. TIMM	11/96			
ENTERED BY	P. ARNOLD	11/96			
CHECKED BY	R.THURMOND	11/96			
PROJ. ENGR.	R.KINOSHITA	11/96			
REGIONAL ADM.	J. OKAMOTO	11/96			
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER	96W035	
CONTRACT NO.	5054	

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE DETAILS

DD-8

SHEET 186 OF 663 SHEETS

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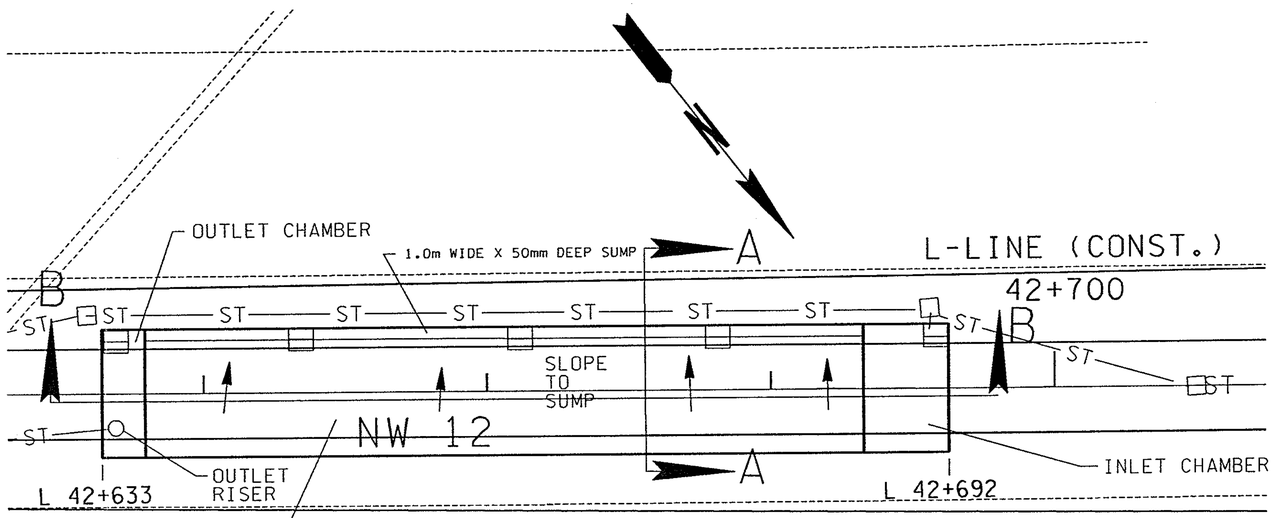
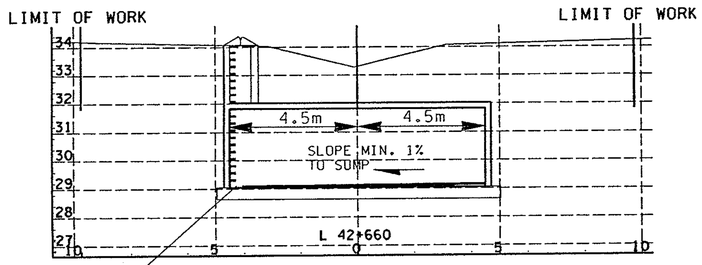
I:\412347\ACAD\DGN\DD-8.PLT

Sat Nov 09 09:16:49 1996 D412347 T:\412347\A\OF1U-9.PLT
09 NOV 96 s:\412347\12095\drainDet.dgn 412347

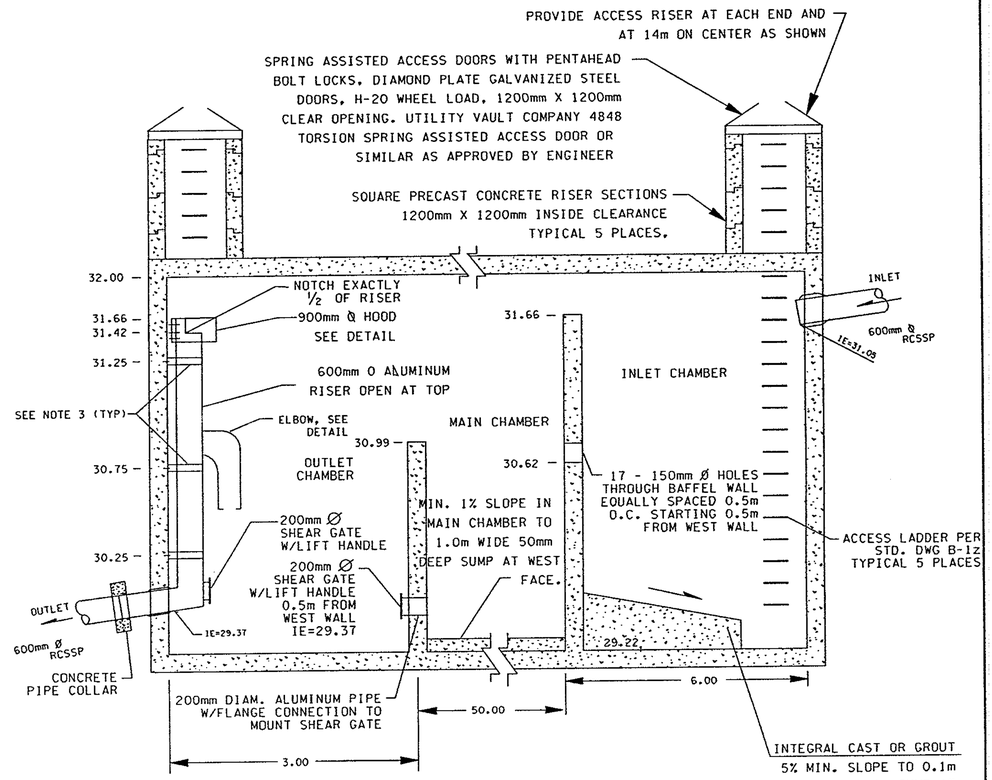


PLAN VIEW
NW-12



SECTION A-A

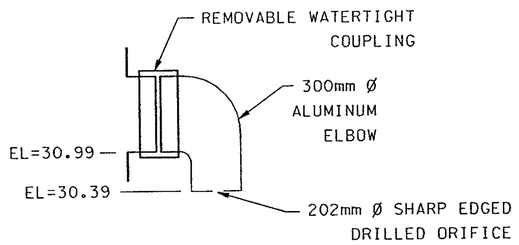
SUMP & SLOPE MAY BE CAST OR FORMED W/GROUT



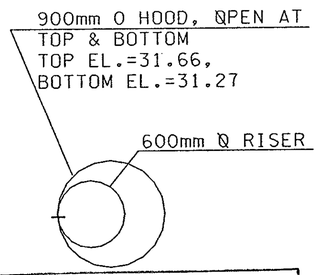
SECTION B-B
N.T.S.

NOTES:

1. RISER TO BE FABRICATED FROM ALUMINUM 1.53mm THICK.
2. SEE BRIDGE PLANS FOR TANK CONSTRUCTION.
3. PIPE SUPPORTS TO BE 75mm X 1.91mm ALUMINUM. EMBED 50mm INTO CONCRETE OR BOLT WITH 16mm DIAM. STAINLESS STEEL EXPANSION BOLTS.
4. CONSTRUCT SHEAR GATES PER STD. PLAN B-3.



ELBOW DETAIL
N.T.S.



FOR "AS CONSTRUCTED PLANS" ONLY

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

DESIGNED BY F. TIMM	11/96				
ENTERED BY P. ARNOLD	11/96				
CHECKED BY R.THURMOND	11/96				
PROJ. ENGR. R.KINOSHITA	11/96				
REGIONAL ADM. J. OKAMOTO	11/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 96W035		
CONTRACT NO. 5054		

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

DRAINAGE DETAILS

DD-9

SHEET 187 OF 663 SHEETS

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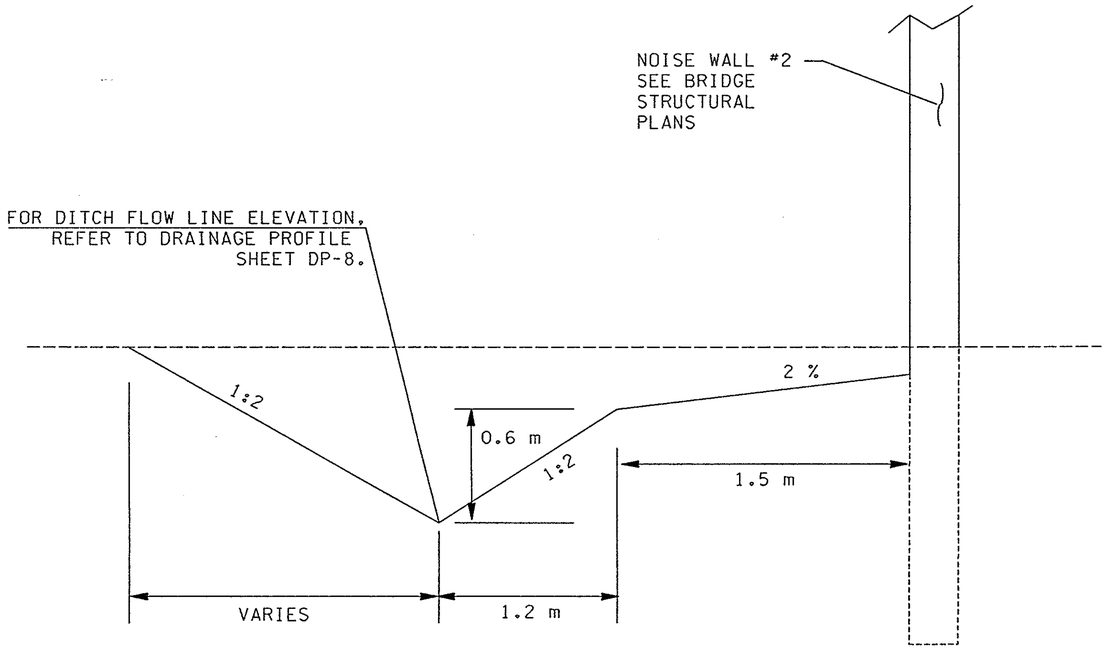
Sat Nov 09 09:17:03 1996 D412347

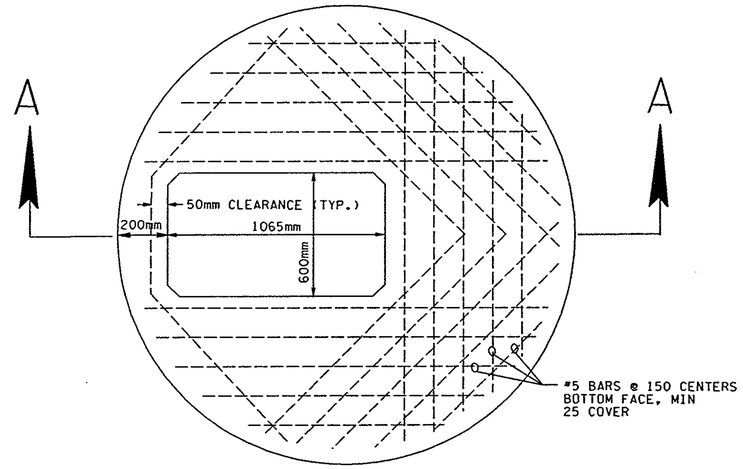


NOISE WALL #2 TYPICAL DITCH SECTION

N.T.S.

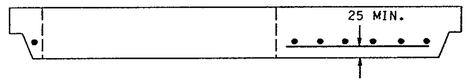
STA. L 42+240 LT TO L 42+290 LT

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.



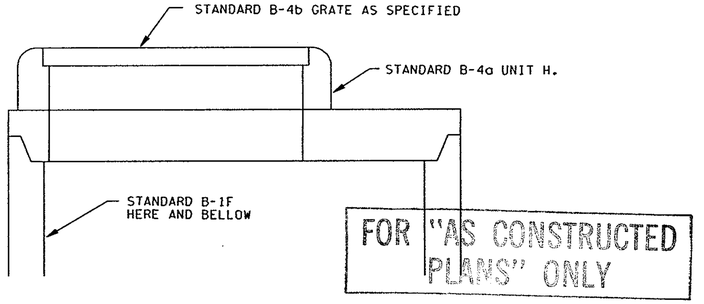
PLAN VIEW OF TOP SLAB

N.T.S.



SECTION A-A

N.T.S.



FOR "AS CONSTRUCTED PLANS" ONLY

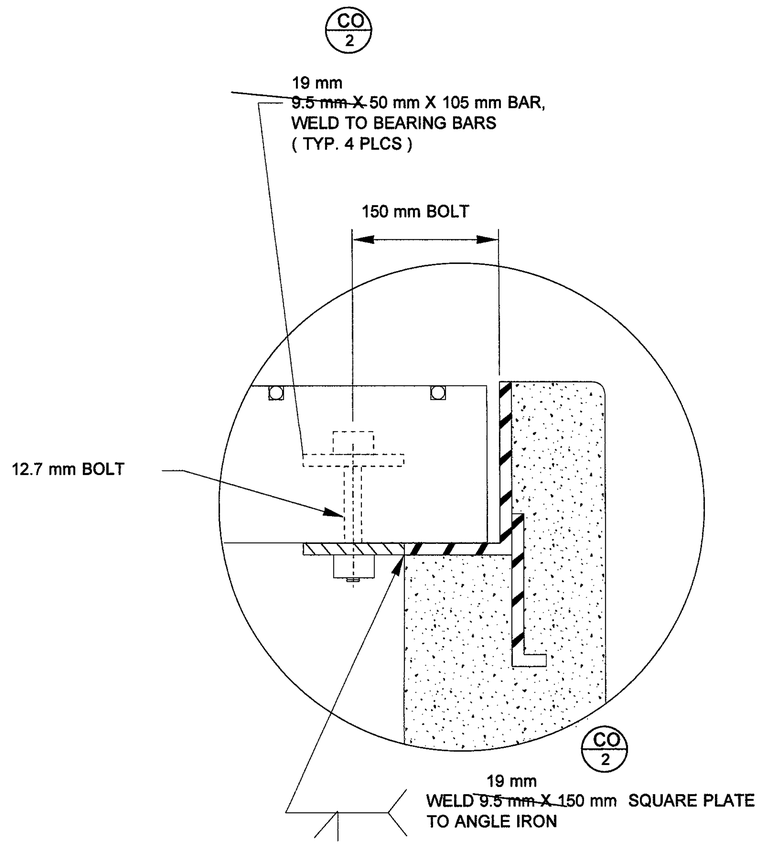
ELEVATION VIEW OF ENTIRE STRUCTURE

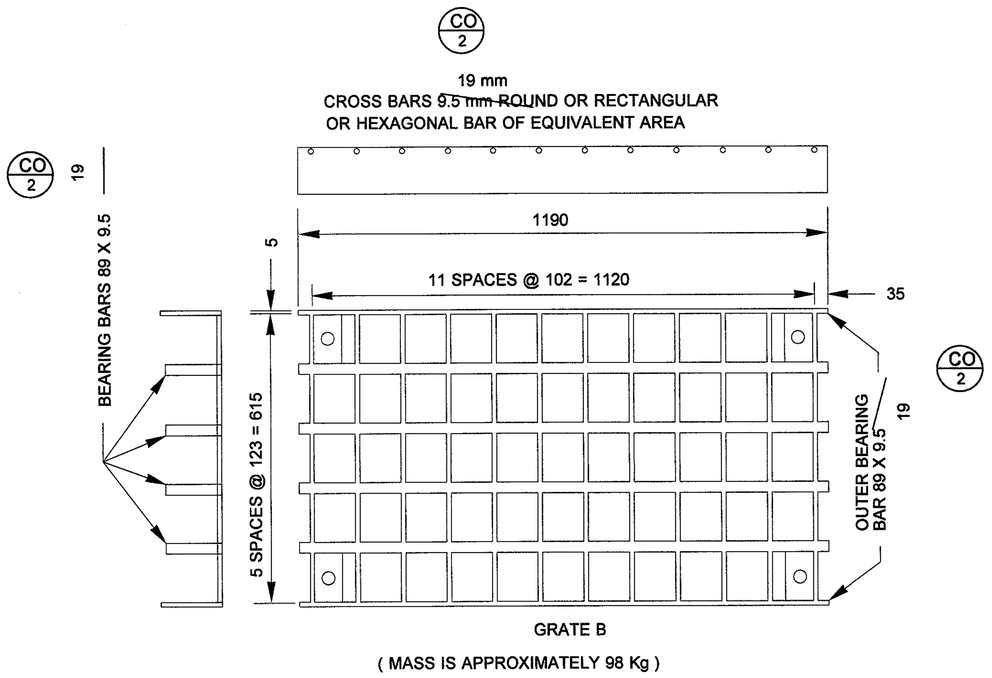
N.T.S.

CATCH BASIN TYPE 2 1800mm DIAM. (MODIFIED)

N.T.S.

					REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
					10	WASH		
DESIGNED BY F. TIMM	11/96				JOB NUMBER 96W035			Washington State Department of Transportation
ENTERED BY P. ARNOLD	11/96							
CHECKED BY R.THURMOND	11/96							SR 405 BOTHELL TO SWAMP CREEK I/C HOV LANES - STAGE 1
PROJ. ENGR. R.KINOSHITA	11/96							DRAINAGE DETAILS
REGIONAL ADM. J. OKAMOTO	11/96				CONTRACT NO. 5054			DD-10
	DATE	DATE	REVISION	BY				SHEET 188 OF 663 SHEETS





GRATE B

(MASS IS APPROXIMATELY 98 Kg)

LOCK DETAIL FOR GRATE INLETS

N.T.S.

LEGEND

CO 2 CHANGE ORDER

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

FOR "AS CONSTRUCTED PLANS" ONLY

						REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
DESIGNED BY	F. TIMM	11/96				10	WASH		Washington State Department of Transportation
ENTERED BY	P. ARNOLD	11/96				JOB NUMBER			SR 405 BOTHELL TO SWAMP CREEK I/C HOV LANES - STAGE 1
CHECKED BY	R.THURMOND	11/96				96W035			DD-11
PROJ. ENGR.	R.KINOSHITA	11/96				CONTRACT NO.			SHEET 189 OF 663 SHEETS
REGIONAL ADM.	J. OKAMOTO		12/02/97	CHANGE ORDER #2	ALM				DRAINAGE DETAILS
		DATE	DATE	REVISION	BY				

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Sat Nov 09 09:18:45 1996 D412347 T:\412347\A\OF1U-12.PLT
PLOT12 09 NOV 96 s:\412347\12095\draindet.dgn 412347

QUANTITY TABULATION PLASTIC DRAINAGE MARKINGS

Structure #	Sta.	Lt/Rt	# OF MARKERS	TYPE
	L 38+286	LT	2	2
	L 38+286	RT	1	2
D1-1	L 38+332	RT	1	2
	L 38+332	LT	1	2
D1-3	L 38+423	RT	1	2
	L 38+423	LT	1	2
	L 38+445	RT	1	2
D2-2	L 38+515	RT	1	2
D2-4	L 38+591	RT	1	2
D2-5	L 38+672	LT	1	2
D2-6	L 38+672	RT	1	2
	L 38+672	LT	1	3
D2-16	L 38+700	RT	1	2
D2-7	L 38+737	LT	1	2
D2-8	L 38+737	RT	1	2
D2-18	L 38+746	RT	1	2
D2-10	L 38+781	LT	1	2
D2-9	L 38+781	RT	1	2
	L 38+781	LT	1	3
D2-20	L 38+790	RT	1	2
	L 38+806	LT	1	1
D2-24	L 38+838	RT	1	2
D2-11	L 38+847	RT	1	2
D2-12	L 38+847	LT	1	2
D3-1	L 38+911	RT	1	2
D3-2	L 38+911	LT	1	2
	L 38+911	LT	1	1
D3-3	L 38+970	RT	1	2
D3-4	L 38+970	LT	1	2
	L 38+973	LT	1	1
D3-5	L 39+033	RT	1	2
D3-6	L 39+033	LT	1	2
	L 39+033	LT	1	1
D3-7	L 39+077	RT	1	2
D3-8	L 39+077	LT	1	2
D3-30	L 39+100	LT	1	2
D3-10	L 39+124	RT	1	2
D3-9	L 39+124	LT	1	2
D3-11	L 39+161	LT	1	2
D3-12	L 39+161	RT	1	2
D3-34	L 39+196	LT	1	2
D4-2	L 39+246	LT	1	2
D4-5	L 39+260	RT	1	2
D4-7	L 39+269	LT	1	2
D4-3	L 39+296	LT	1	2
D4-11	L 39+323	RT	1	2
D4-4	L 39+342	LT	1	2
D4-9	L 39+384	RT	1	2
D4-13	L 39+444	LT	1	2
D4-14	L 39+445	RT	1	2
D4-8	L 39+448	RT	1	2
	L 39+500	LT	1	2
D5-1	L 39+514	RT	1	2
D5-2	L 39+521	LT	1	2
D5-4	L 39+521	RT	1	2
D5-5	L 39+521	LT	1	2
D5-3	L 39+536	LT	1	2
D5-7	L 39+612	RT	1	2
D5-8	L 39+613	LT	1	2
D5-16	L 39+615	RT	1	2
D5-11	L 39+703	RT	1	2
D5-12	L 39+703	LT	1	2
D5-13	L 39+795	LT	1	2
D5-14	L 39+795	RT	1	2
D5-15	L 39+813	LT	1	2
D6-3	L 39+885	LT	1	2
D6-4	L 39+886	RT	1	2
D6-2	L 39+901	LT	1	2
D6-10	L 39+903	RT	1	2
D6-5	L 39+977	LT	1	2
D6-6	L 39+977	RT	1	2
D6-14	L 39+985	LT	1	2
	L 39+995	RT	1	2
	L 40+012	RT	1	3
D6-7	L 40+070	LT	1	2
D6-8	L 40+070	RT	1	2
	L 40+100	LT	1	2
	L 40+115	RT	1	2
D12-2	L 41+916	RT	1	2
	L 41+917	RT	1	2
	L 41+944	RT	1	3
D12-3	L 42+004	LT	1	2
D12-5.6	L 42+004	RT	2	2
	L 42+035	RT	1	3
	L 42+056	RT	1	1
D13-1	L 42+062	RT	1	2
	L 42+068	LT	1	1
	L 42+126	RT	1	2
D13-3	L 42+182	RT	1	2
	L 42+214	RT	1	2
	L 42+225	LT	1	3
D13-4	L 42+282	RT	1	2
	L 42+313	RT	1	2
D14-1	L 42+333	RT	1	2
D14-2	L 42+382	RT	1	2
D14-3	L 42+386	LT	1	2

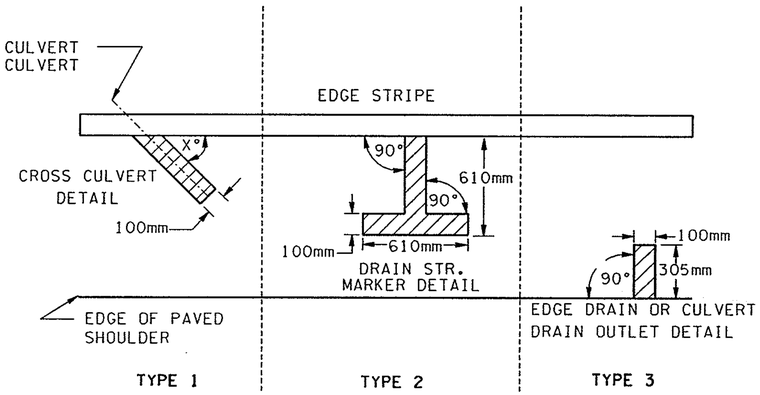
QUANTITY TABULATION PLASTIC DRAINAGE MARKINGS

Structure #	Sta.	Lt/Rt	# OF MARKERS	TYPE
D14-18	L 42+412	LT	1	2
	L 42+450	RT	1	2
D14-4	L 42+471	LT	1	2
D14-5	L 42+475	RT	1	2
D14-6	L 42+545	RT	1	2
D14-15	L 42+605	LT	1	2
D14-8	L 42+605	LT	1	2
D14-16	L 42+618	RT	1	2
D14-9	L 42+632	LT	1	2
	L 42+663	LT	1	1
D15-1	L 42+690	LT	1	2
D15-2	L 42+710	LT	1	2
D15-3	L 42+801	RT	1	2
	L 42+840	LT	1	3
	LL 40+284	LT	1	2
D7-5	LL 40+290	LT	1	2
	LL 40+420	LT	1	2
	LL 40+431	LT	1	1
	LL 40+438	LT	1	2
	LL 40+480	LT	1	2
	LL 40+686	LT	1	1
	LL 40+695	LT	1	3
D8-11	LL 40+700	RT	1	2
	LL 40+701	LT	1	2
D8-12	LL 40+710	RT	1	2
	LL 40+825	LT	1	1
D9-1	LL 40+840	LT	1	2
D9-2	LL 40+840	RT	1	2
	LL 40+953	LT	1	2
D9-4	LL 40+972	RT	1	2
	LL 41+047	LT	1	2
	LL 41+053	LT	1	2
D10-2	LL 41+080	RT	1	2
	LL 41+135	LT	1	2
	LL 41+195	LT	1	2
	LL 41+195	RT	1	1
	LL 41+200	LT	1	3
	LL 41+203	LT	1	2
D10-4	LL 41+210	RT	1	2
	LL 41+238	LT	1	2
	LL 41+304	LT	1	3
	LL 41+370	LT	1	3
	LL 41+410	LT	1	3
D11-1	LL 41+449	RT	1	2
	LL 41+456	LT	1	2
	LL 41+460	RT	1	1
D11-2	LL 41+496	RT	1	1
	LL 41+503	LT	1	3
	LL 41+515	RT	1	1
	LL 41+516	RT	1	3
	LL 41+517	LT	1	2
	LL 41+592	LT	1	3
	LL 41+682	LT	1	3
	LL 41+765	LT	1	3
D12-1.4	LL 41+866	LT	1	2
	LR 40+130	RT	1	3
D7-1	LR 40+162	LT	1	2
D7-2	LR 40+255	LT	1	2
	LR 40+267	RT	1	1
D7-4	LR 40+344	LT	1	2
	LR 40+367	RT	1	2
D7-6	LR 40+420	LT	1	2
D8-2	LR 40+463	LT	1	2
D8-3	LR 40+465	LT	1	2
	LR 40+480	RT	1	2
	LR 40+486	RT	1	1
D8-5	LR 40+555	LT	1	2
D8-6	LR 40+557	LT	1	2
	LR 40+572	RT	1	2
D8-8	LR 40+647	LT	1	2
D8-9	LR 40+648	LT	1	2
	LR 40+663	RT	1	2
	LR 40+732	RT	1	1
	LR 40+828	RT	1	2
D9-19	LR 40+840	RT	1	2
D9-5.6	LR 40+846	LT	1	2
D9-13	LR 40+848	RT	1	2
D9-14	LR 40+898	RT	1	2
D9-7,8	LR 40+906	LT	1	2
D9-9.1	LR 40+968	LT	1	2
	LR 40+976	LT	1	3
D9-11.12	LR 41+029	LT	1	2
D10-20	LR 41+094	LT	1	2
D10-18.19	LR 41+122	LT	1	2
D10-15.16	LR 41+167	RT	1	2
D10-10.11	LR 41+197	LT	1	2
D10-12	LR 41+197	RT	1	2
D10-13.14	LR 41+207	RT	1	2
D10-8.9	LR 41+243	LT	1	2
D10-7	LR 41+273	LT	1	2
D10-5.6	LR 41+343	LT	1	2
	LR 41+355	RT	1	1
	LR 41+429	RT	1	1
D11-3	LR 41+441	LT	1	2
D11-4	LR 41+472	LT	1	1
D11-6	LR 41+500	RT	1	2
D11-5	LR 41+523	LT	1	2
D11-8	LR 41+608	LT	1	3

QUANTITY TABULATION PLASTIC DRAINAGE MARKINGS

Structure #	Sta.	Lt/Rt	# OF MARKERS	TYPE
D2-14	NBCD 8+650	LT	1	2
D2-15	NBCD 8+700	LT	1	2
D2-17	NBCD 8+746	LT	1	2
D2-19	NBCD 8+790	LT	1	2
D2-21	NBCD 8+815	LT	1	2
D2-22	NBCD 8+830	RT	1	2
	NBCD 8+836	RT	1	1
D2-23	NBCD 8+838	LT	1	2
D3-13	NBCD 8+853	LT	1	2
D3-14	NBCD 8+867	LT	1	2
D3-15	NBCD 8+867	LT	1	2
D3-16	NBCD 8+891	LT	1	2
D3-17	NBCD 8+913	LT	1	2
D3-18	NBCD 8+913	LT	1	2
D3-19	NBCD 8+959	LT	1	2
D3-20	NBCD 8+959	LT	1	2
	NBCD 8+973	RT	1	1
D3-21	NBCD 9+020	LT	1	2
D3-22	NBCD 9+020	LT	1	2
D3-23	NBCD 9+081	LT	1	2
D3-24	NBCD 9+081	LT	1	2
D3-25	NBCD 9+118	LT	1	2
D3-26	NBCD 9+118	LT	1	2
D3-27	NBCD 9+118	RT	1	2
D3-28	NBCD 9+136	RT	1	2
D3-29	NBCD 9+200	RT	1	2
D4-6	NBCD 9+284	RT	1	2
D4-15	NBCD 9+441	RT	1	2
D5-6	NBCD 9+527	LT	1	2
D5-22	NBCD 9+714	RT	1	2
D5-20	NBCD 9+803	RT	1	2
D5-10	S-195 9+676	LT	1	2
D5-24	195TH-N 9+617	RT	1	2
	S-W 8+278	LT	1	2
	S-W 8+370	LT	1	2
	S-W 8+430	LT	1	2
	S-W 8+520	RT	1	2
	S-W 8+520	LT	1	3
	S-W 8+590	LT	1	3
D1-11	W-N 8+318	RT	1	2
D1-6	W-N 8+363	RT	1	2
D1-7	W-N 8+417	RT	1	2
D1-8	W-N 8+417	LT	1	2
D1-9	W-N 8+482	LT	1	2
D2-13	W-N 8+570	LT	1	2
D14-14	AR4 2+576	RT	1	2
	AR4 2+587	RT	1	1
	AR4 2+610	LT	1	2
	AR4 2+640	LT	1	2
	AR4 2+660	RT	1	2
	AR4 2+694	LT	1	2
	AR4 2+762	LT	1	2
	AR4 2+824	RT	1	2
	AR4 2+830	LT	1	2

TOTAL PLASTIC DRAINAGE MARKINGS = 250



PLASTIC DRAINAGE MARKING DETAIL

N.T.S.

FOR "AS CONSTRUCTED PLANS" ONLY

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE IN METERS UNLESS OTHERWISE INDICATED.

					REGION NO.	STATE	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER	SR 405 BOTHELL TO SWAMP CREEK I/C HOV LANES - STAGE 1
DESIGNED BY F. TIMM	10/96				10	WASH		Washington State Department of Transportation	DD-12
ENTERED BY P. ARNOLD	10/96								
CHECKED BY R.THURMOND	10/96				96W035				SHEET 190 OF 663 SHEETS
PROJ. ENGR. R.KINOSHITA	10/96								DRAINAGE DETAILS
REGIONAL ADM. J. OKAMOTO	10/96								
	DATE	DATE	REVISION	BY	5054				

GENERAL NOTES

1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION METRIC DATED 1996, AND AMENDMENTS.

2. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES FIFTEENTH EDITION - 1992 AND INTERIMS THROUGH 1995, AND ACI 350R-89 ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES.

3. BOTTOM SLAB ELEVATIONS AND WALL DETAILS ARE SUBJECT TO CHANGE DEPENDING UPON FOUNDATION MATERIAL ENCOUNTERED. REINFORCING STEEL FOR SLAB AND WALLS SHALL NOT BE CUT UNTIL FINAL ELEVATIONS HAVE BEEN DETERMINED AND STRUCTURE DETAILS HAVE BEEN MODIFIED.

4. THE CONCRETE IN THE SEALS SHALL BE CLASS 28W. ALL OTHER CONCRETE SHALL BE CLASS 28 UNLESS OTHERWISE NOTED.

5. THE CONCRETE SEALS AT TANKS NW-6 AND NW-12 ARE DESIGNED FOR A WATER SURFACE ELEVATION OF 6.7 AND 31.8. AFTER SEALS ARE PLACED, COFFERDAMS SHALL NOT BE DEWATERED WHEN THE WATER IS ABOVE ELEVATION 6.7 FOR NW-6 AND 31.8 FOR NW-12. PROVISION SHALL BE MADE TO FLOOD THE COFERDAM IN THE EVENT THAT THE WATER SURFACE RISES ABOVE THE DESIGN ELEVATION.

6. THE MAXIMUM DESIGN SOIL PRESSURE IS 96 KPa FOR NW-6, 550 KPa FOR NW-13, 290 KPa FOR NW-12 AND 550 KPa FOR NW-15.

7. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

8. 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 50 AND 75 AT THE BOTTOM SLAB.

9. WATERPROOF SEALANT SHALL BE APPLIED ON ALL INSIDE SURFACES OF TANKS AND VAULTS.

10. THE CONTRACTOR SHALL SUBMIT DETAILS AND INSTALLATION PROCEDURE OF WATERSTOPS.

11. ALL TANKS AND VAULTS SHALL BE BACKFILLED BEFORE FILLING IT WITH WATER.

12. ALL DIMENSIONS SHOWN WITH DECIMALS ARE IN METERS AND WITHOUT DECIMALS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

13. GALVANIZING OF DEFORMED & SMOOTH REBAR SHALL BE IN ACCORDANCE WITH AASHTO M111.

FOR "AS CONSTRUCTED PLANS" ONLY

LEGEND

B/15 — IDENTIFIES SECTION, VIEW OR DETAIL

TAKEN OR SHOWN ON BRIDGE SHEET 15

B/— TAKEN OR SHOWN ON THE SAME SHEET

◒ - SOIL BORING LOCATIONS

SR 405 JOB NO. 7082 SHEET 1

Bridge Design Engr. C. C. RUTH	VAULTSROOT:[FGB]NOTES.FGB;1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor R. T. SHAEFER					10	WASH.			
Designed By M. TALUKDAR 9/96					JOB NUMBER 96W035				
Checked By F. KESHAVARZI 10/96									
Detailed By V.B. SCHICCHI 9/96									
Bridge Projects Engr.									
Prelim. Plan By	1/8/97	ADDED NOTE 13	MT	RTS	5054				
Architect/Specialist	DATE	REVISION	BY	APP'D					

13-JAN-97

BRIDGE AND STRUCTURES OFFICE

RAYMOND T. SHAEFER — STATE OF WASHINGTON — 13378 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 4/23/98
1-13-97 SUPERVISING BRIDGE ENGINEER

CHARLES C. RUTH — STATE OF WASHINGTON — 19602 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 5/3/98
1-14-97 BRIDGE DESIGN ENGINEER

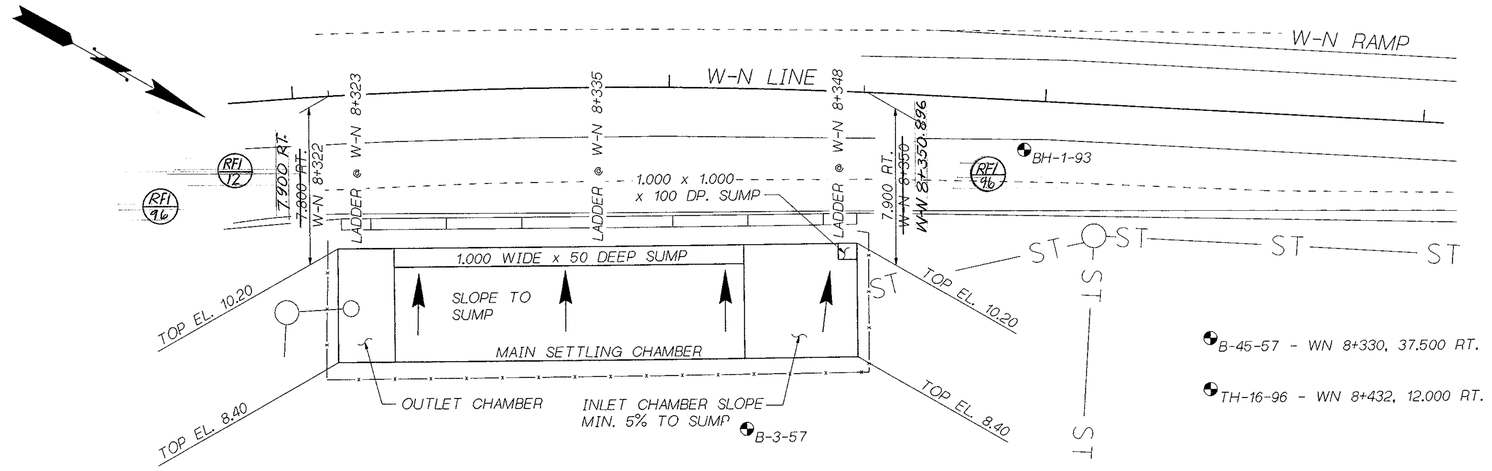
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

GENERAL NOTES

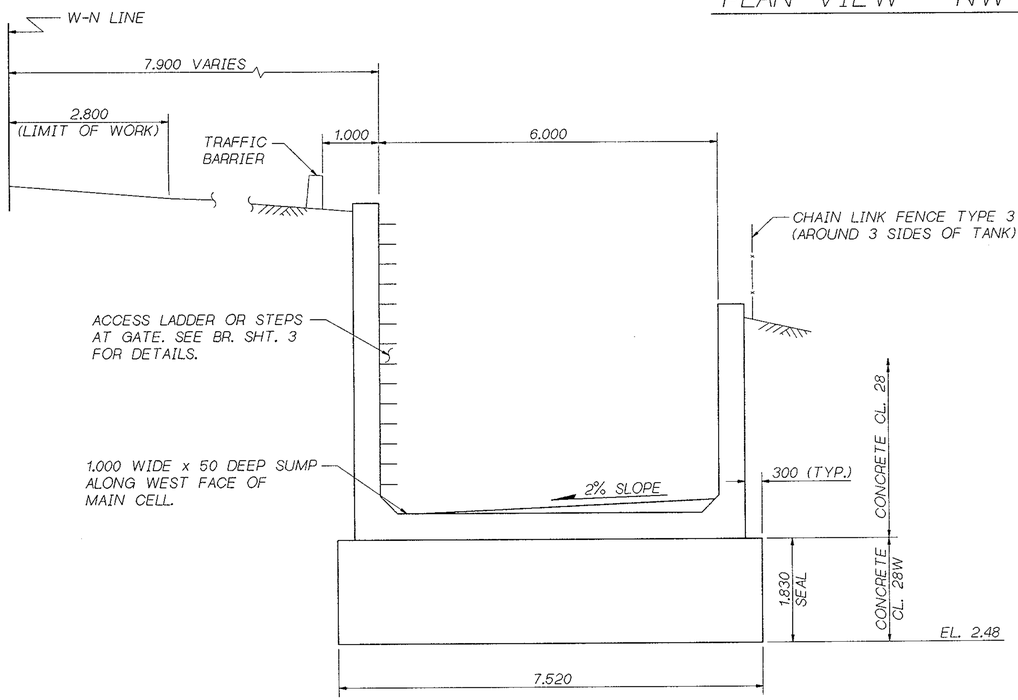
BRIDGE SHEET NO. 1

SHEET 191 OF 663 SHEETS



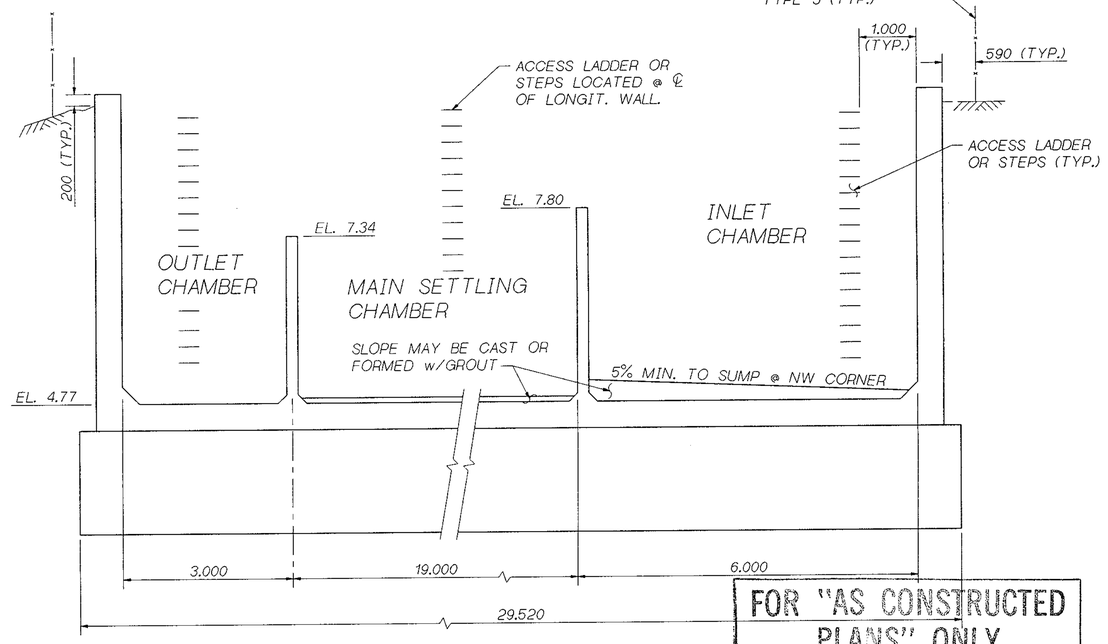
PLAN VIEW - NW-6

NOTE:
FOR FIXTURES, FENCES ETC. SEE DRAINAGE DETAILS SHEET DD-3.

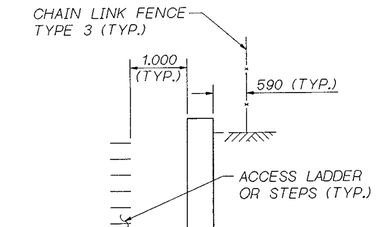


TYPICAL SECTION

TAKEN AT W-N LINE STA. 8+340



LONGITUDINAL SECTION



FOR "AS CONSTRUCTED PLANS" ONLY

SR 405 JOB NO. 7082 SHEET 2

Bridge Design Engr. C. C. RUTH	VAULTSROOT:(FGB)VAULT6.FGB:1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor R. T. SHAEFER					10	WASH.			
Designed By M. TALUKDAR 9/96					JOB NUMBER				
Checked By F. KESHAVARZI 10/96					96W035				
Detailed By V.B. SCHICCHI 9/96					5054				
Bridge Projects Engr.	4/23/97	RFI-12	ALM						
Prelim. Plan By	1/16/98	RFI-96	ALM						
Architect/Specialist	DATE	REVISION	BY	APP'D					

15-NOV-96

RAYMOND T. SHAEFER — STATE OF WASHINGTON — 14078 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 4/23/98 — 11-15-96 — SUPERVISING BRIDGE ENGINEER

BRIDGE AND STRUCTURES OFFICE

CHARLES C. RUTH — STATE OF WASHINGTON — 13652 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 5/3/98 — 11-15-96 — BRIDGE DESIGN ENGINEER

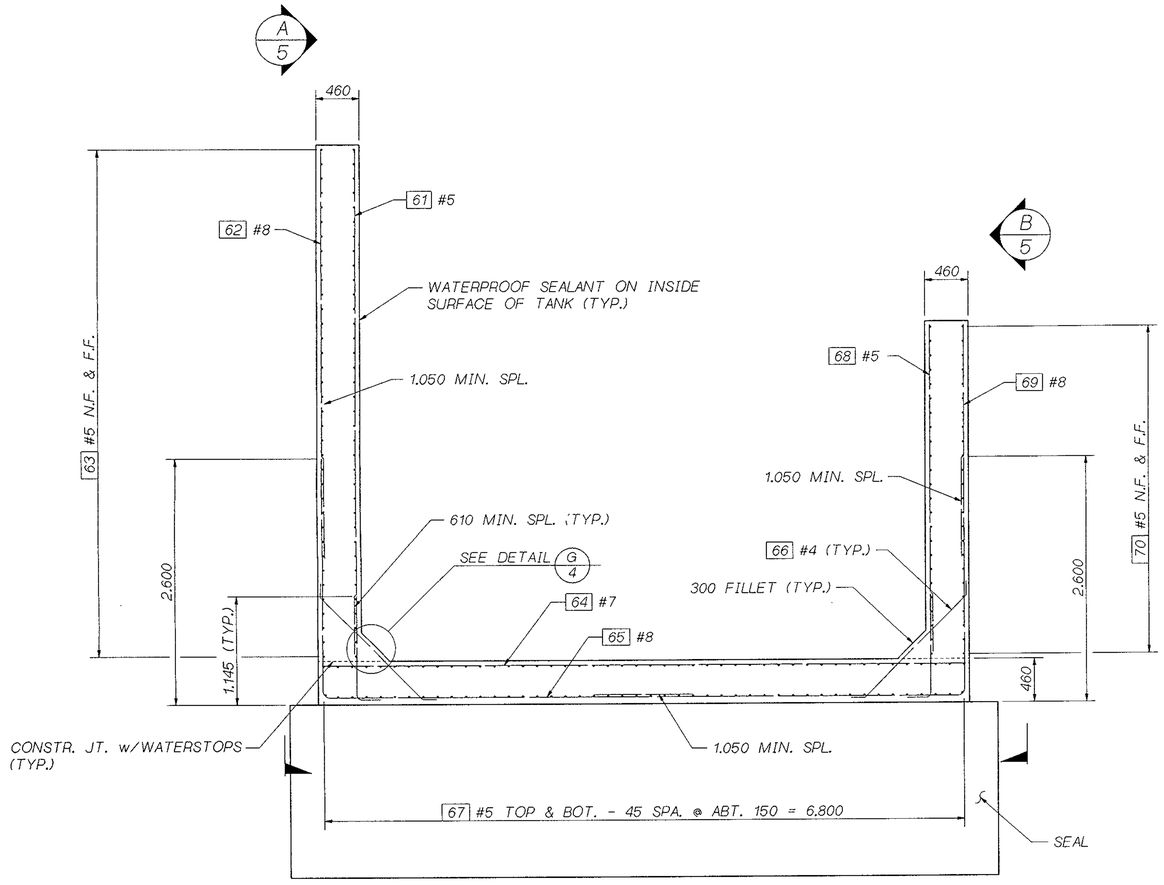
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

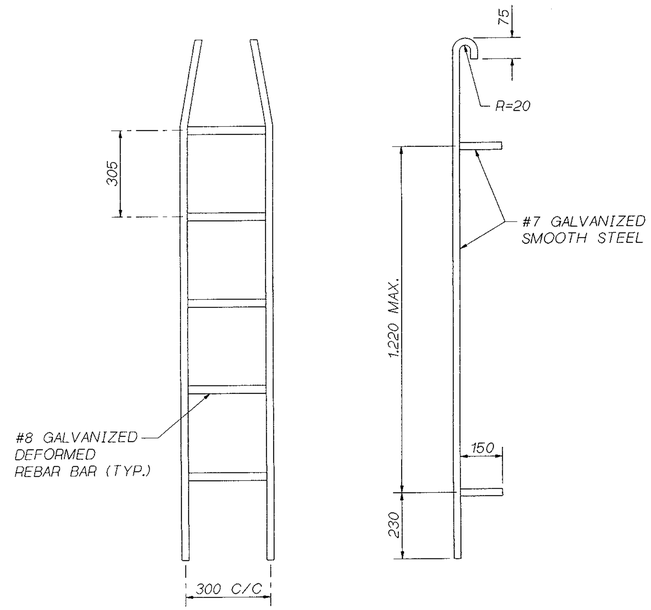
LAYOUT - NW-6 TANK

BRIDGE SHEET NO. 2

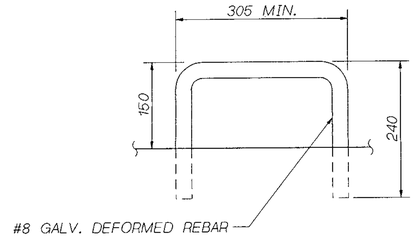
SHEET 192 OF 663 SHEETS



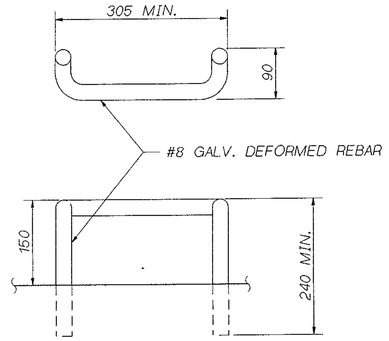
TYPICAL TRANSVERSE SECTION REINFORCEMENT



PREFABRICATED TANK LADDER



TANK STEP



DROP RUNG TANK STEP

FOR "AS CONSTRUCTED PLANS" ONLY

Bridge Design Engr. C. C. RUTH	VAULTSROOT:(FGB)VAULT6_1.FGB:1			REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	BRIDGE AND STRUCTURES OFFICE
Supervisor R. T. SHAEFER				10	WASH.				
Designed By M. TALUKDAR 9/96									
Checked By F. KESHAVARZI 10/96				JOB NUMBER					
Detailed By V.B. SCHICCHI 9/96				96W035					
Bridge Projects Engr.									
Prelim. Plan By				5054					
Architect/Specialist	DATE	REVISION	BY APP'D						

RAYMOND T. SHAEFER — STATE OF WASHINGTON — 14378 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 4/23/98 — 11-15-96 — SUPERVISING BRIDGE ENGINEER

CHARLES C. NUTH — STATE OF WASHINGTON — 13602 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 5/3/98 — 11-15-96 — BRIDGE DESIGN ENGINEER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

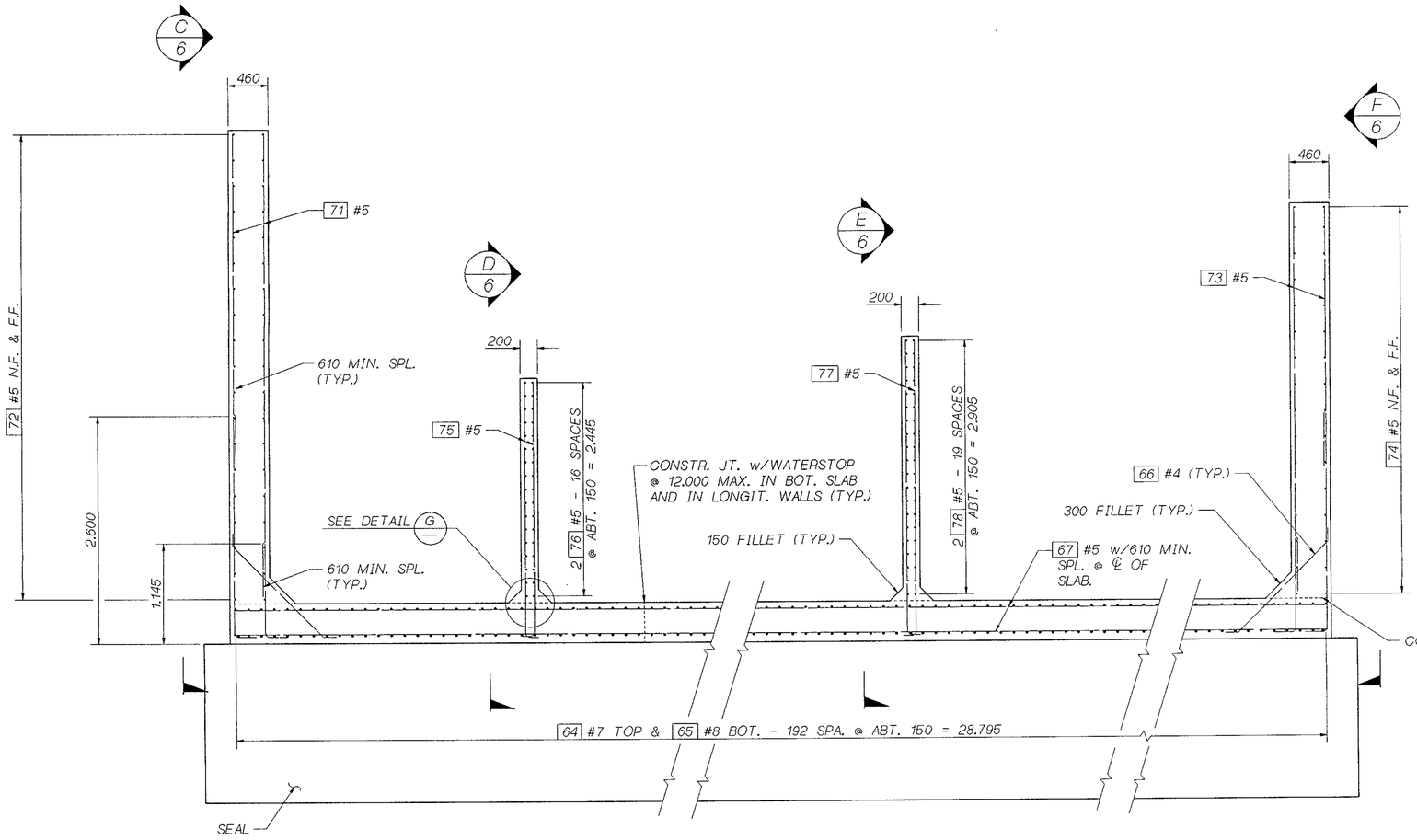
NW-6 TANK SECTIONS

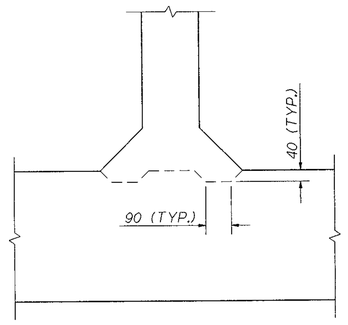
BRIDGE SHEET NO 3

SHEET 193 OF 663 SHEETS

SR 405 JOB NO. 7082 SHEET 3

15-NOV-96





DETAIL G

-, 3, 9, 10, 16, 17, 23 & 24

TYP. @ INTERIOR & EXTERIOR WALLS

TYPICAL LONGITUDINAL SECTION REINFORCEMENT

FOR "AS CONSTRUCTED PLANS" ONLY

SR 405 JOB NO. 7082 SHEET 4

Bridge Design Engr. C. C. RUTH	VAULTSROOT:[FGB]VAULT6_2.FGB;1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	BRIDGE AND STRUCTURES OFFICE
Supervisor R. T. SHAEFER					10	WASH.				RAYMOND T. SHAEFER, STATE OF WASHINGTON, 14378, REGISTERED PROFESSIONAL ENGINEER, EXPIRES 4/23/98 — 1-13-97 SUPERVISING BRIDGE ENGINEER
Designed By M. TALUKDAR 9/96					JOB NUMBER 96W035					CHARLES C. RUTH, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER, EXPIRES 5/3/98 — 1-14-97 BRIDGE DESIGN ENGINEER
Checked By F. KESHAVARZI 10/96										
Detailed By V.B. SCHICCHI 9/96										
Bridge Projects Engr.										
Prelim. Plan By	1/8/97	ADDED CONST. JT. AND TEXT	MT	CCR	5054					
Architect/Specialist	DATE	REVISION	BY	APP'D						

13-JAN-97

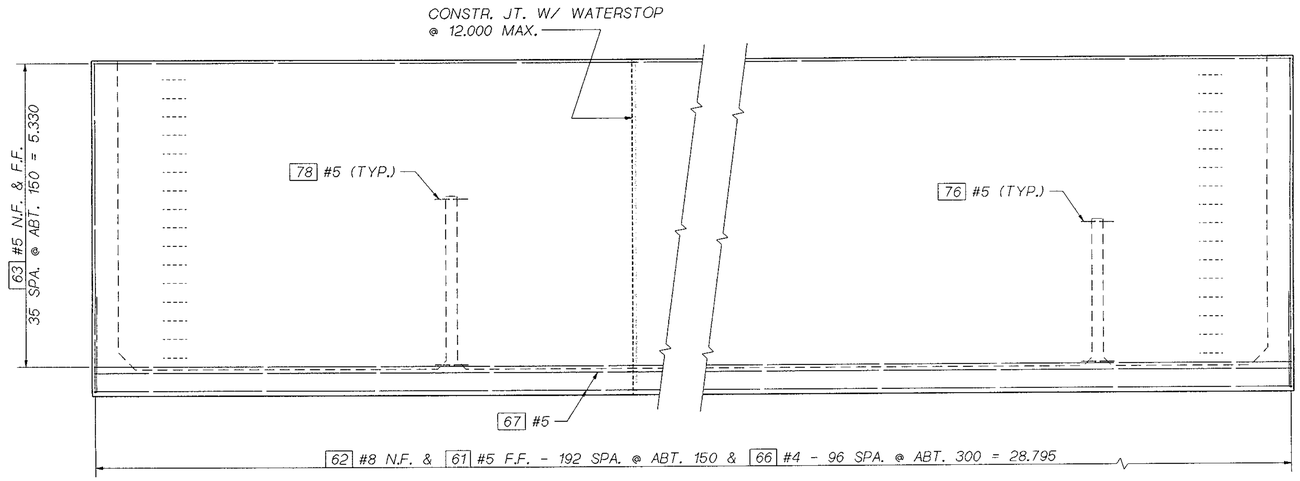
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

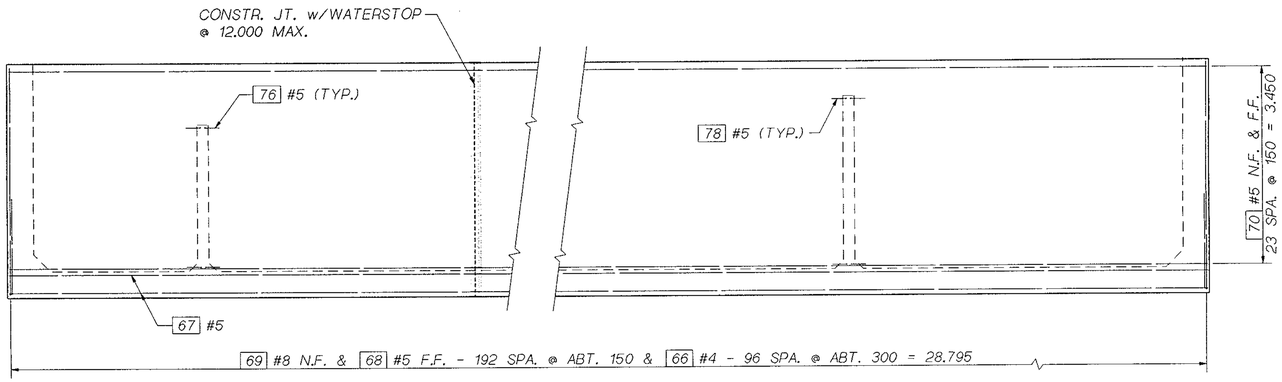
NW-6 TANK SECTIONS

BRIDGE SHEET NO. 4

SHEET 194 OF 663 SHEETS



VIEW A / 3



VIEW B / 3

FOR "AS CONSTRUCTED PLANS" ONLY

SR 405 JOB NO. 7082 SHEET 5

Bridge Design Engr. C. C. RUTH	VAULTSROOT (FGB) VAULT6_3.FGB:1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	BRIDGE AND STRUCTURES OFFICE
Supervisor R. T. SHAEFER					10	WASH.				
Designed By M. TALUKDAR 9/96					JOB NUMBER 96W035					
Checked By F. KESHAVARZI 10/96										
Detailed By V.B. SCHICCHI 9/96										
Bridge Projects Engr.										
Prelim. Plan By	1/8/97	ADDED CONST. JT. AND NOTE	MT	CCR	5054					
Architect/Specialist	DATE	REVISION	BY	APP'D						

RAYMOND T. SHAEFER — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — 14378 — EXPIRES 4/23/98
7-13-97 SUPERVISING BRIDGE ENGINEER

CHARLES C. RUTH — STATE OF WASHINGTON — 13622 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 5/3/98
1-14-97 BRIDGE DESIGN ENGINEER

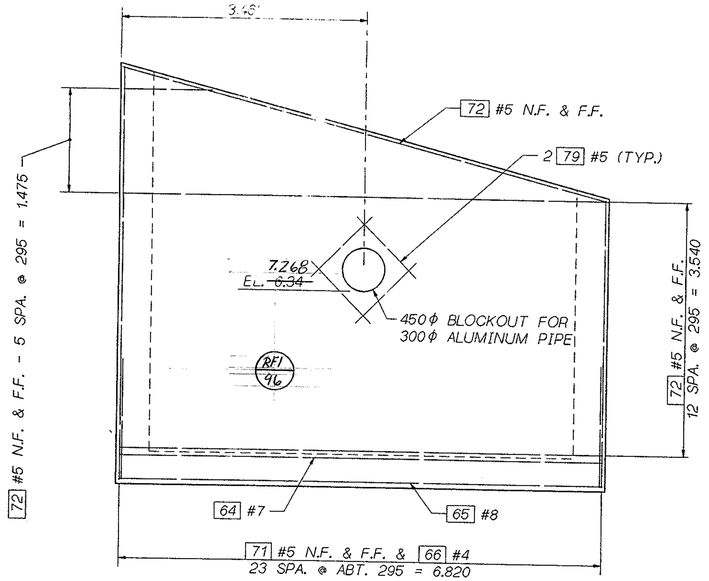
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

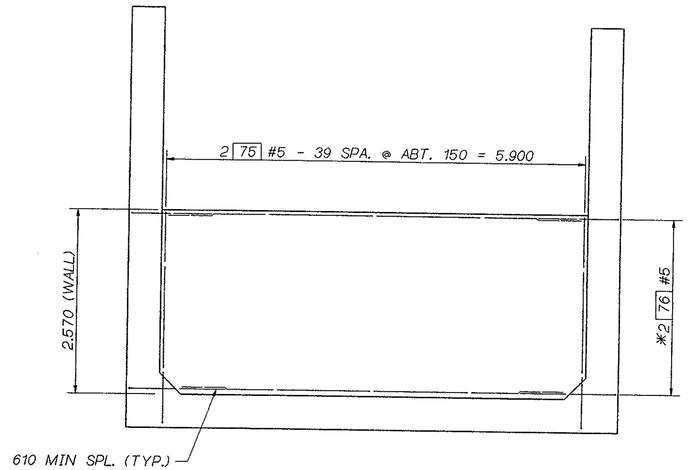
NW-6 TANK SECTIONS

BRIDGE SHEET NO. 5
SHEET 195 OF 663 SHEETS

13-JAN-97

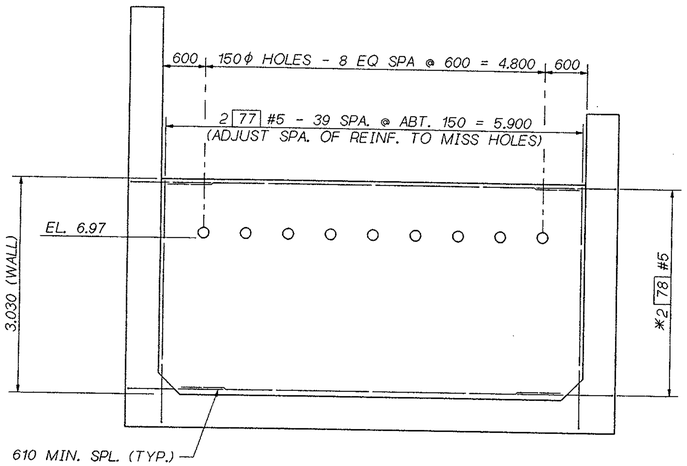


VIEW C / 4



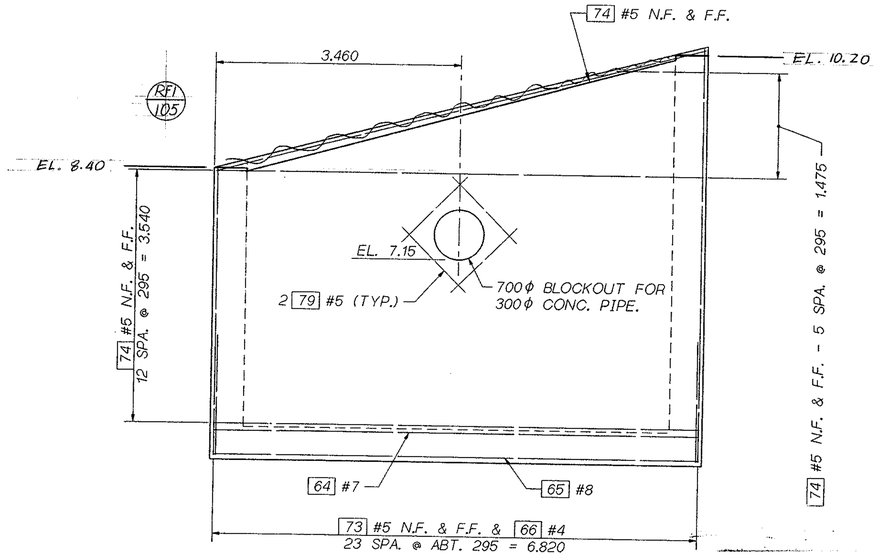
SECTION D / 4

* FOR DIMENSIONS NOT SHOWN, SEE BR. SHT. 2.



SECTION E / 4

* FOR DIMENSIONS NOT SHOWN, SEE BR. SHT. 2.



VIEW F / 4

FOR "AS CONSTRUCTED PLANS" ONLY

SR 405 JOB NO. 7082 SHEET 6

Bridge Design Engr. C. C. RUTH	VAULTSROOT:[FGB]VAULT6_4.FGB;1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor R. T. SHAEFER					10	WASH.			
Designed By M. TALUKDAR 9/96									
Checked By F. KESHAVARZI 10/96					JOB NUMBER				
Detailed By V.B. SCHICCHI 9/96					96W035				
Bridge Projects Engr.	11/6/96	RFI - 96	ALM						
Prelim. Plan By	11/4/96	RFI - 105	ALM						
Architect/Specialist	DATE	REVISION	BY	APP'D	5054				

15-NOV-96

BRIDGE AND STRUCTURES OFFICE

RAYMOND T. SHAEFER — STATE OF WASHINGTON — 14378 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 1/23/98 — 11-15-96 — SUPERVISING BRIDGE ENGINEER

CHARLES C. RUTH — STATE OF WASHINGTON — 19622 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 5/3/98 — 11-15-96 — BRIDGE DESIGN ENGINEER

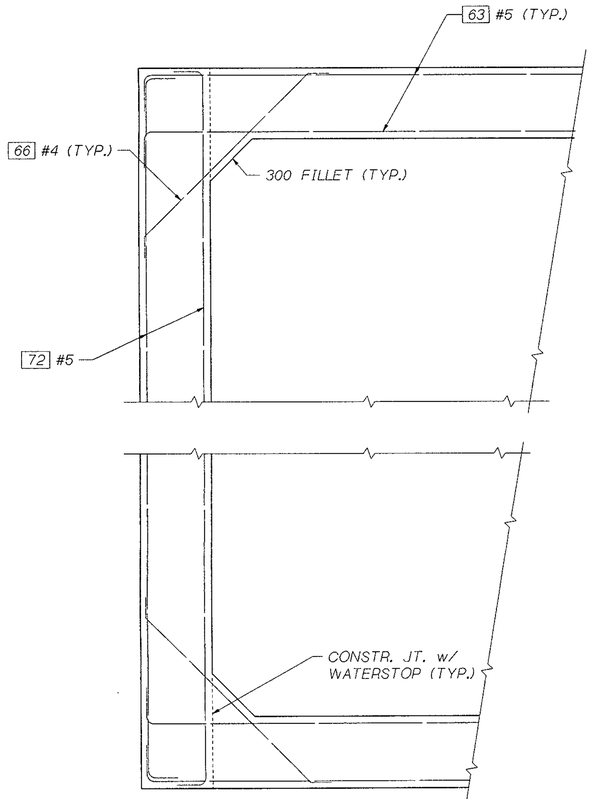
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

NW-6 TANK SECTIONS

BRIDGE SHEET NO. 6

SHEET 196 OF 663 SHEETS



PLAN - CORNER DETAIL
TYP. ALL 4 CORNERS

FOR "AS CONSTRUCTED PLANS" ONLY

SR 405 JOB NO. 7082 SHEET 7

Bridge Design Engr. C. C. RUTH	VAULTSROOT:[FGB]VAULT6_5.FGB;1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	BRIDGE AND STRUCTURES OFFICE
Supervisor R. T. SHAEFER					10	WASH.				
Designed By M. TALUKDAR 9/96					JOB NUMBER					
Checked By F. KESHAVARZI 10/96					96W035					
Detailed By V.B. SCHICCHI 9/96										
Bridge Projects Engr.										
Prelim. Plan By					5054					
Architect/Specialist	DATE	REVISION	BY	APP'D						

15-NOV-96

RAYMOND T. SHAEFER — STATE OF WASHINGTON — 14378 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 4/23/98 — 7-15-96 — SUPERVISING BRIDGE ENGINEER

CHARLES C. RUTH — STATE OF WASHINGTON — 13632 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 5/3/98 — 11-15-96 — BRIDGE DESIGN ENGINEER

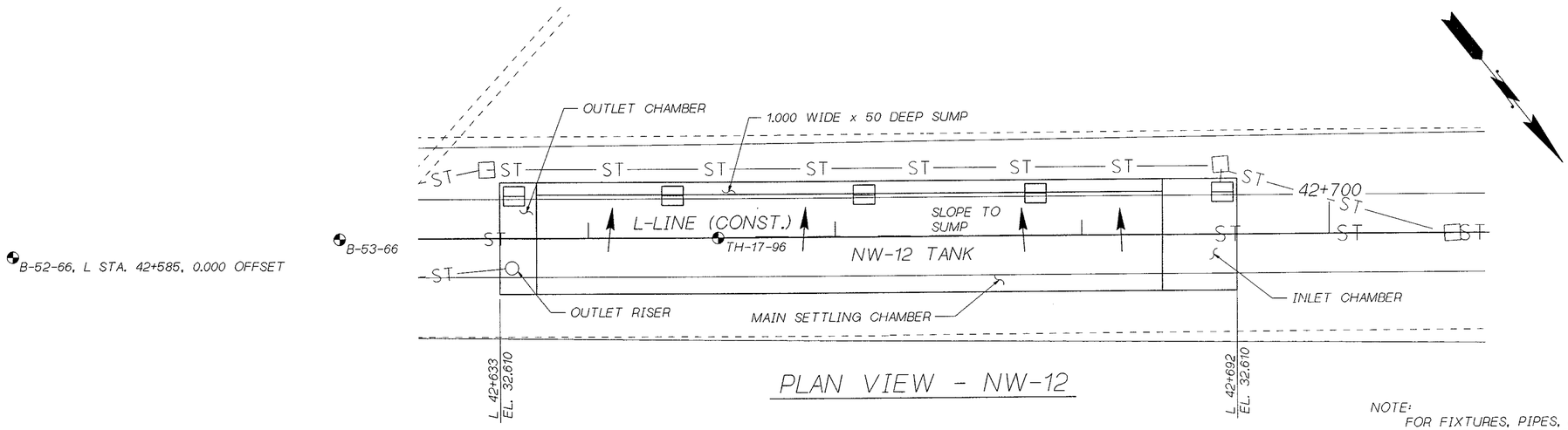
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

NW-6 TANK WALL DETAILS

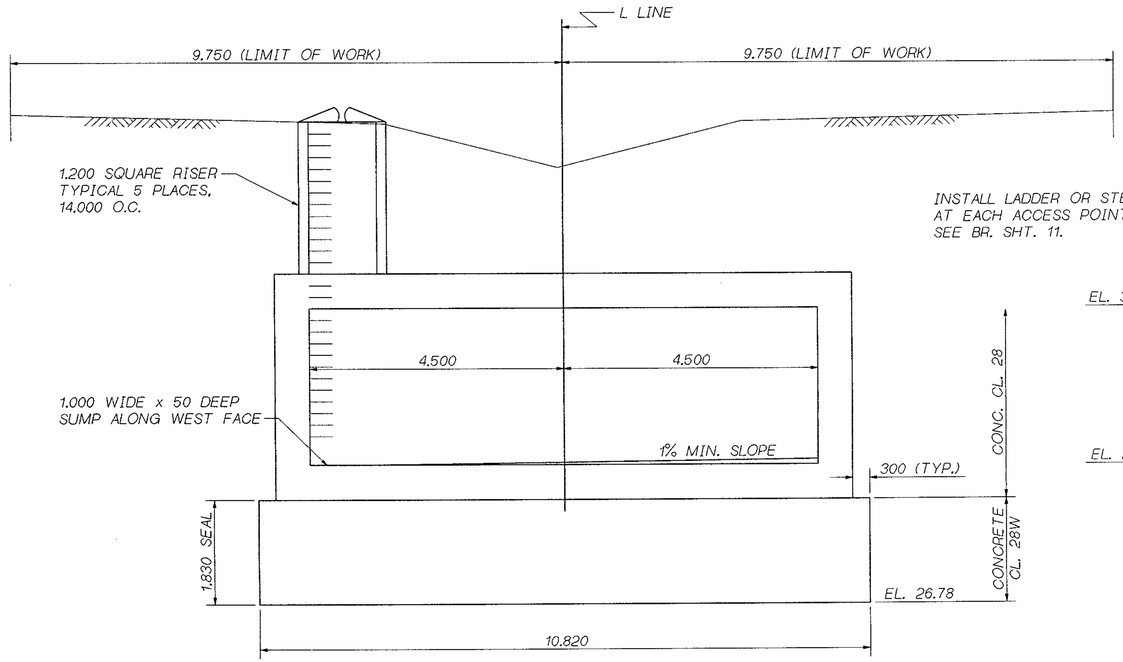
BRIDGE SHEET NO. 7

SHEET 197 OF 663 SHEETS



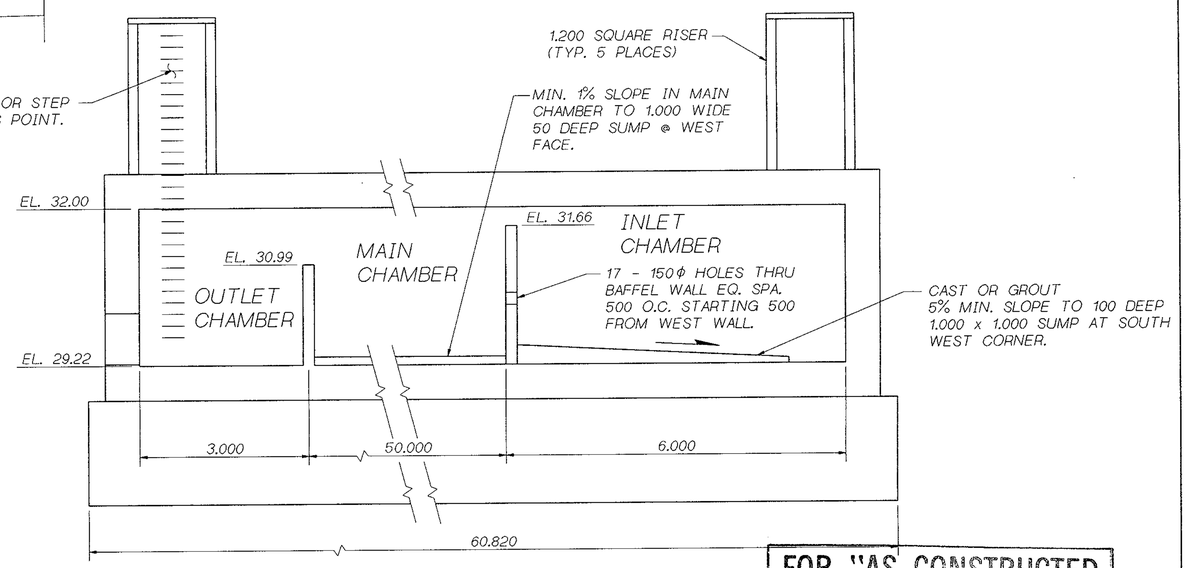
PLAN VIEW - NW-12

NOTE:
FOR FIXTURES, PIPES, RISERS, ACCESS DOORS ETC. SEE DRAINAGE DETAILS SHEET DD-9.



TYPICAL SECTION

TAKEN AT L LINE STA. 42+660
SUMP & SLOPE MAY BE CAST OR FORMED w/GROUT.



LONGITUDINAL SECTION

FOR "AS CONSTRUCTED PLANS" ONLY

Bridge Design Engr. C. C. RUTH	VAULTSROOT (FGB) VAULT9.FGB, 1			REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor R. T. SHAEFER				10	WASH.			
Designed By M. TALUKDAR 8/96				JOB NUMBER				
Checked By F. KESHAVARZI 10/96				96W035				
Detailed By V.B. SCHICCHI 8/96								
Bridge Projects Engr.								
Prelim. Plan By								
Architect/Specialist	DATE	REVISION	BY	APP'D	5054			

BRIDGE AND STRUCTURES OFFICE

RAYMOND T. SHAEFER — STATE OF WASHINGTON — 14378 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 4/23/98
11-15-96 SUPERVISING BRIDGE ENGINEER

CHARLES C. RUTH — STATE OF WASHINGTON — 10652 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 5/3/98
11-15-96 BRIDGE DESIGN ENGINEER

Washington State Department of Transportation

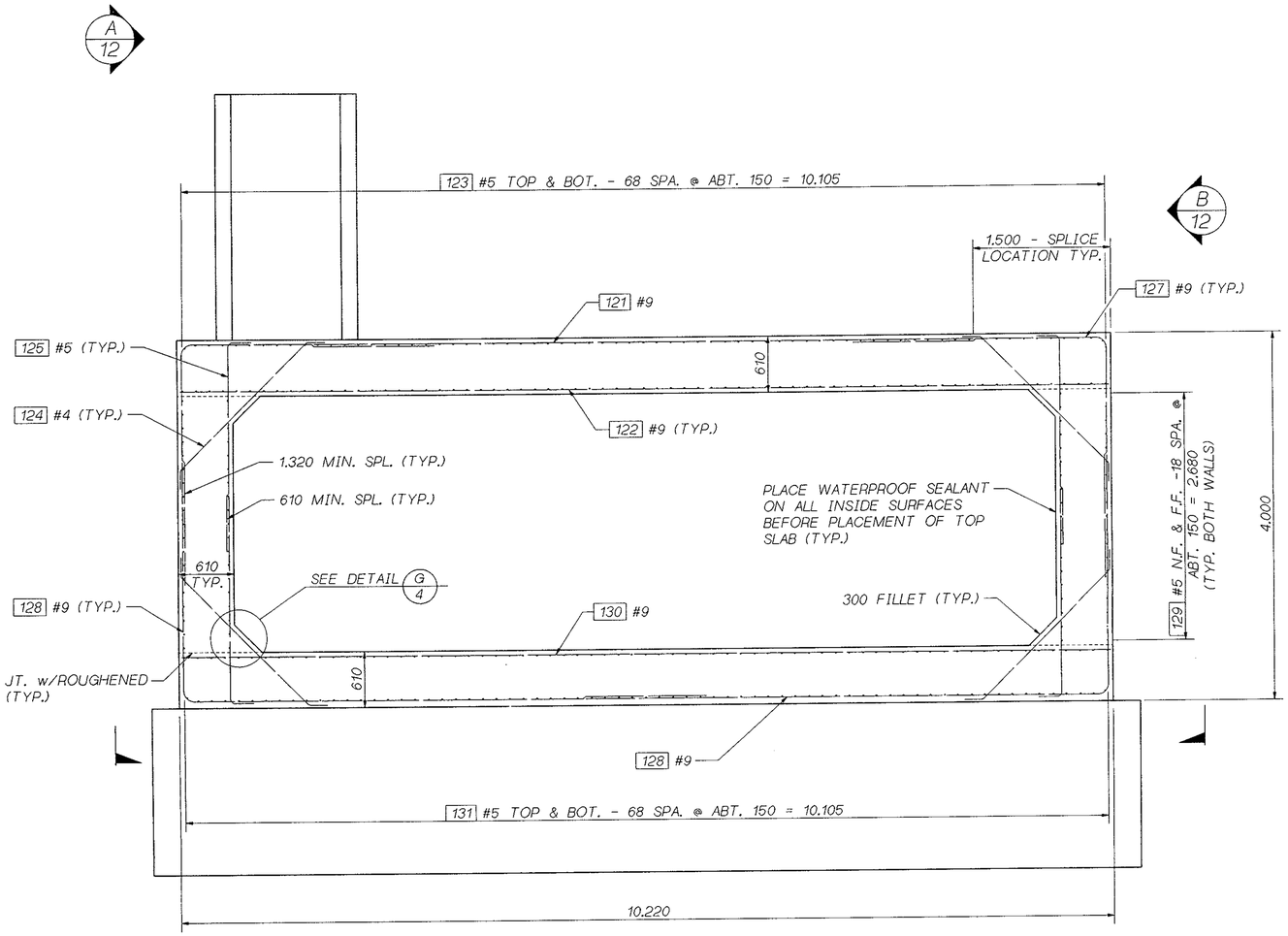
SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

LAYOUT - NW-12 VAULT

BRIDGE SHEET NO. 8
SHEET 198 OF 663 SHEETS

SR 405 JOB NO. 7082 SHEET 8

15-NOV-96



TYPICAL TRANSVERSE SECTION

FOR "AS CONSTRUCTED PLANS" ONLY

SR 405 JOB NO. 7082 SHEET 9

Bridge Design Engr. C. C. RUTH	VAULTSROOT [FGB] VAULT9_1.FGB: 1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	BRIDGE AND STRUCTURES OFFICE
Supervisor R. T. SHAEFER					10	WASH.				
Designed By M.TALUKDAR 8/96					JOB NUMBER 96W035					
Checked By F. KESHAVARZI 10/96										
Detailed By V.B. SCHICCHI 8/96										
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist	DATE	REVISION	BY	APP'D	5054					

RAYMOND T. SHAEFER — STATE OF WASHINGTON — 14378 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 6/23/98 — 11-15-96 — SUPERVISING BRIDGE ENGINEER

CHARLES C. RUTH — STATE OF WASHINGTON — 13022 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 5/3/98 — 11-15-96 — BRIDGE DESIGN ENGINEER

Washington State Department of Transportation

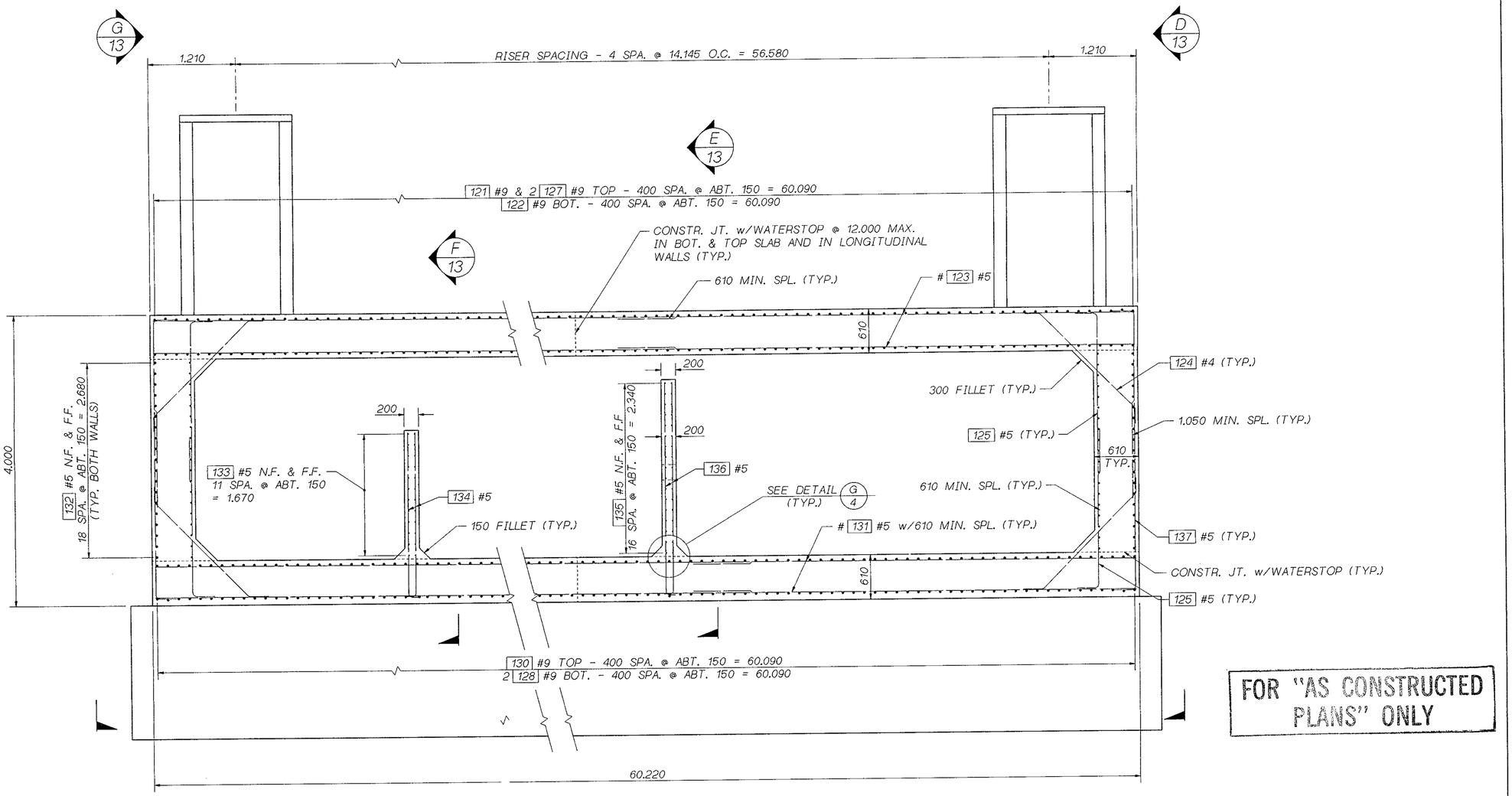
SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

NW-12 VAULT SECTIONS

BRIDGE SHEET NO. 9

SHEET 199 OF 663 SHEETS

15-NOV-96



TYPICAL LONGITUDINAL SECTION

- BAR LENGTH AND SPLICE LOCATION AT CONTRACTORS OPTION.

FOR "AS CONSTRUCTED PLANS" ONLY

SR 405 JOB NO. 7082 SHEET 10

Bridge Design Engr. C. C. RUTH	VAULTSROOT:[FGB]VAULT9_2.FGB;1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	BRIDGE AND STRUCTURES OFFICE
Supervisor R. T. SHAEFER					10	WASH.				
Designed By M. TALUKDAR 8/96					JOB NUMBER 96W035					
Checked By F. KESHAVARZI 10/96										
Detailed By V.B. SCHICCHI 8/96										
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist	DATE	REVISION	BY	APP'D	5054					

RAYMOND T. SHAEFER — STATE OF WASHINGTON — 14378 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 4/23/98 — 11-15-96 — SUPERVISING BRIDGE ENGINEER

CHARLES C. RUTH — STATE OF WASHINGTON — 19822 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 5/3/98 — 11-15-96 — BRIDGE DESIGN ENGINEER

Washington State Department of Transportation

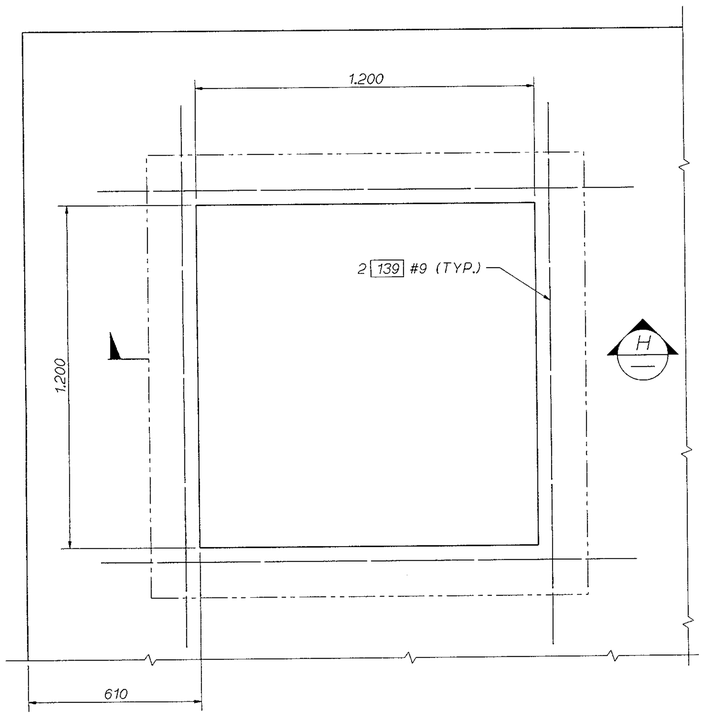
SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

NW-12 VAULT SECTIONS

BRIDGE SHEET NO. 10

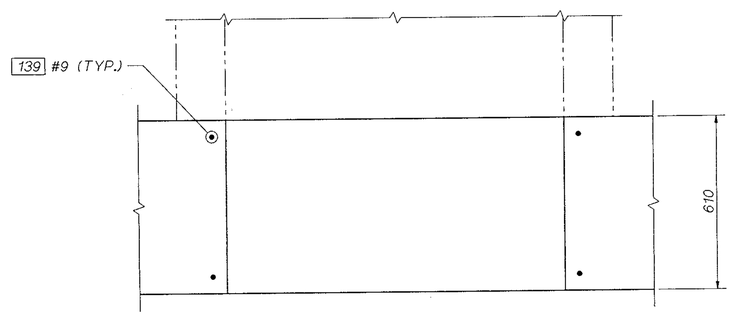
SHEET 200 OF 663 SHEETS

15-NOV-96

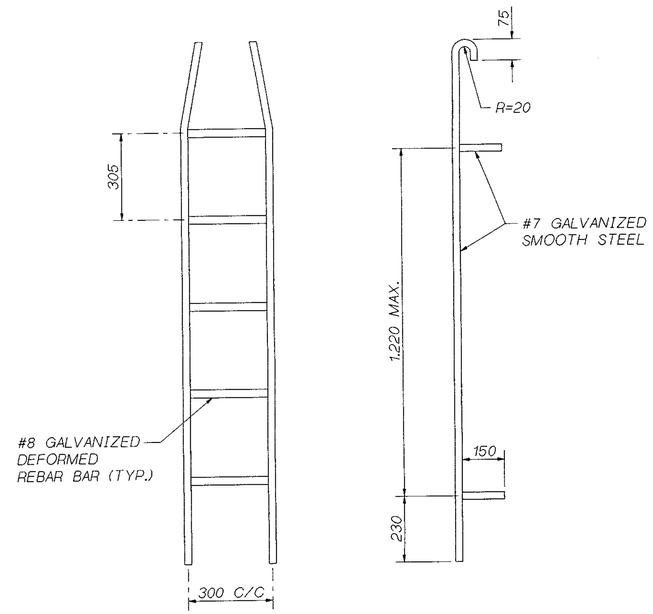


REINF. @ RISER OPENING

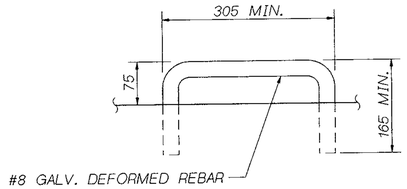
DETAIL TYPICAL 3 PLACES
SLAB BARS NOT SHOWN FOR CLARITY.



SECTION (H)



PREFABRICATED VAULT LADDER



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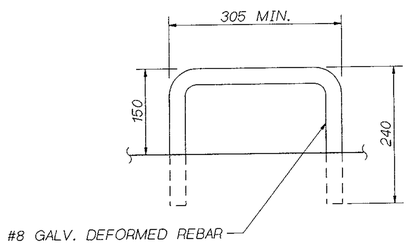
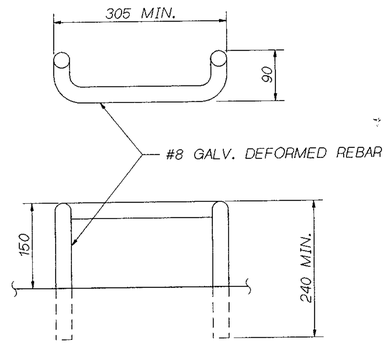


VAULT STEP



DROP RUNG VAULT STEP

FOR "AS CONSTRUCTED PLANS" ONLY

SR 405 JOB NO. 7082 SHEET 11

Bridge Design Engr. C. C. RUTH	VAULTSROOT (FGB)VLT9_SLAB.FGB: 1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor R. T. SHAEFER					10	WASH.			
Designed By M. TALUKDAR 9/96					JOB NUMBER 96W035				
Checked By F. KESHAVARZI 10/96									
Detailed By V.B. SCHICCHI 9/96									
Bridge Projects Engr.					5054				
Prelim. Plan By									
Architect/Specialist	DATE	REVISION	BY	APP'D					

15-NOV-96

BRIDGE AND STRUCTURES OFFICE

RAYMOND T. SHAEFER, STATE OF WASHINGTON, 14379, REGISTERED PROFESSIONAL ENGINEER, EXPIRES 4/23/98 — 11/15/96 — SUPERVISING BRIDGE ENGINEER

CHARLES C. RUTH, STATE OF WASHINGTON, 13622, REGISTERED PROFESSIONAL ENGINEER, EXPIRES 5/3/98 — 11-15-96 — BRIDGE DESIGN ENGINEER

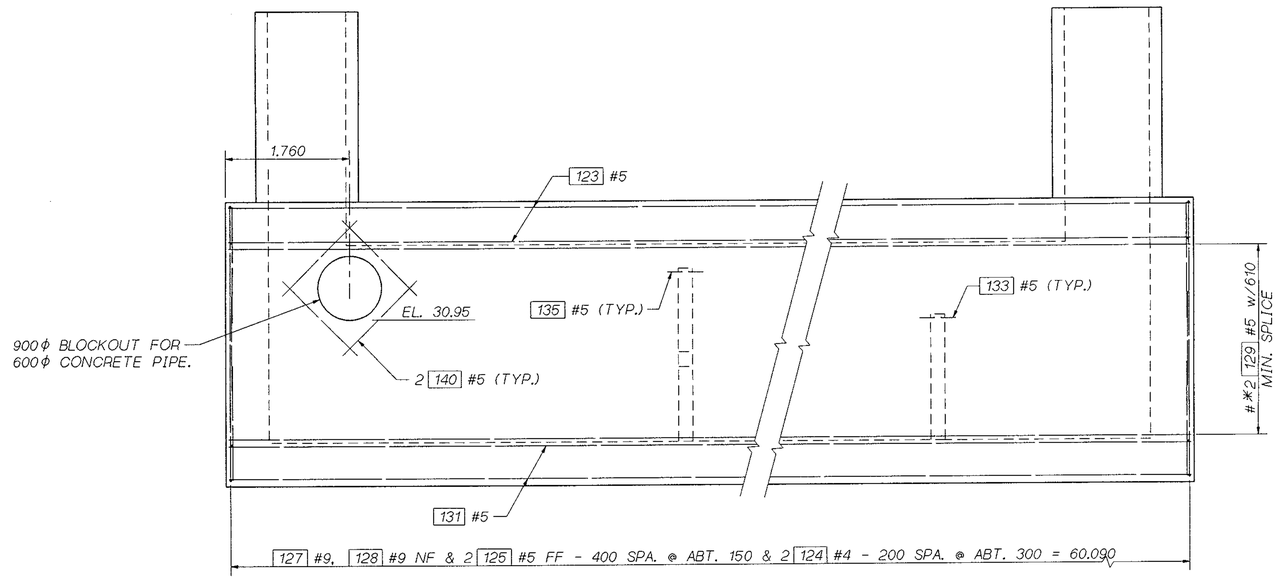
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

NW-12 VAULT SLAB DETAILS

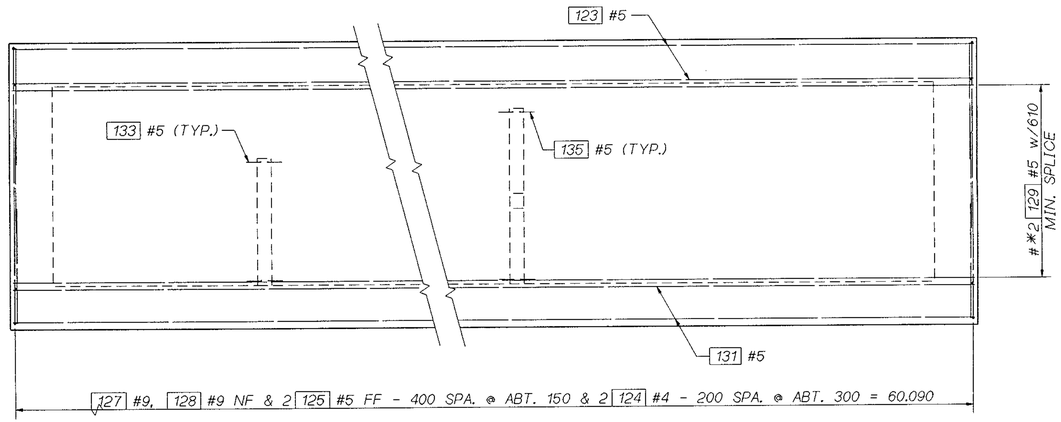
BRIDGE SHEET NO. 11

SHEET 201 OF 663 SHEETS



VIEW A / 9

* FOR DIMENSIONS NOT SHOWN, SEE BR. SHT. 9.
# BAR LENGTH AND SPLICE LOCATION AT CONTRACTORS OPTION.



VIEW B / 9

* FOR DIMENSIONS NOT SHOWN, SEE BR. SHT. 9.
# BAR LENGTH AND SPLICE LOCATION AT CONTRACTORS OPTION.

FOR "AS CONSTRUCTED PLANS" ONLY

SR 405 JOB NO. 7082 SHEET 12

Bridge Design Engr. C. C. RUTH	VAULTSROOT [FGB] VAULT9_3.FGB: 1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor R. T. SHAEFER					10	WASH.			
Designed By M. TALUKDAR 9/96					JOB NUMBER				
Checked By F. KESHAVARZI 10/96					96W035				
Detailed By V.B. SCHICCHI 9/96									
Bridge Projects Engr.					5054				
Prelim. Plan By									
Architect/Specialist	DATE	REVISION	BY	APP'D					

15-NOV-96

BRIDGE AND STRUCTURES OFFICE

RAYMOND T. SHAEFER — STATE OF WASHINGTON — 14378 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 4/23/98
11-15-96 SUPERVISING BRIDGE ENGINEER

CHARLES C. RUTH — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 5/3/98
11-15-96 BRIDGE DESIGN ENGINEER

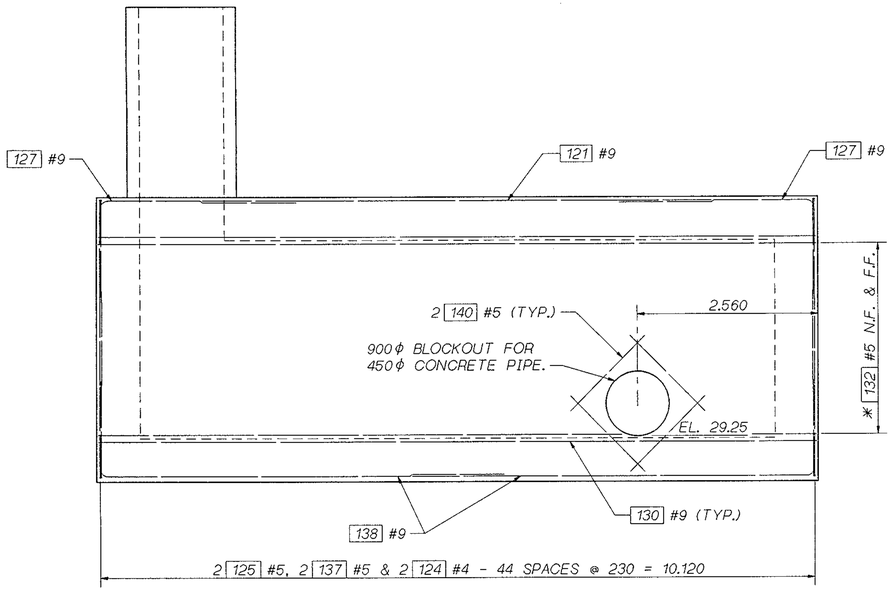
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

NW-12 VAULT SECTIONS

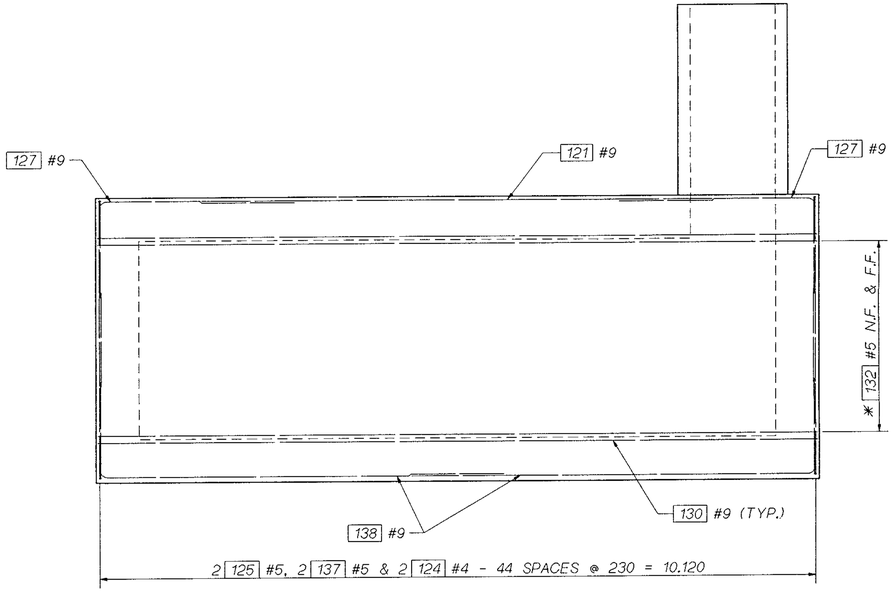
BRIDGE SHEET NO. 12

SHEET 202 OF 663 SHEETS



VIEW G / 10

* FOR DIMENSIONS NOT SHOWN, SEE BR. SHT 8.



VIEW D / 10

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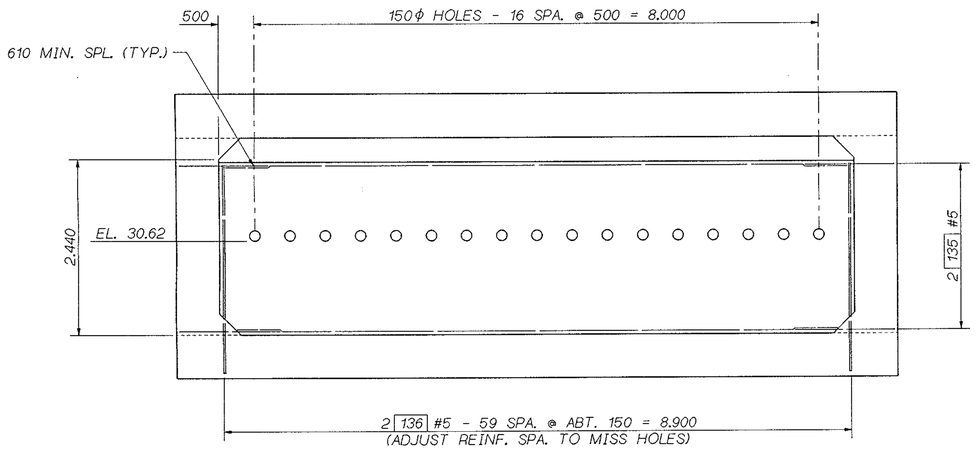
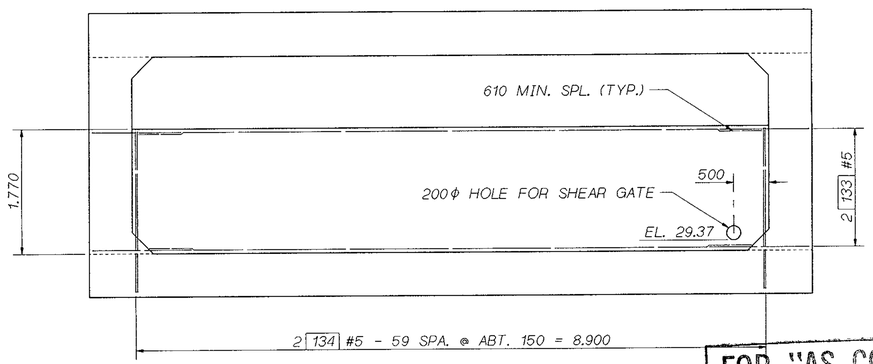


SECTION E / 10

FOR REINF. & DIMENSIONS NOT SHOWN SEE
"TYPICAL TRANSVERSE SECTION" BRIDGE SHEET 9.



SECTION F / 10

FOR REINF. & DIMENSIONS NOT SHOWN SEE
"TYPICAL TRANSVERSE SECTION" BRIDGE SHEET 9.

FOR "AS CONSTRUCTED PLANS" ONLY

SR 405 JOB NO. 7082 SHEET 13

Bridge Design Engr. C. C. RUTH	VAULTSROOT:[FGB]VAULT9_4.FGB;1				REGION NO.	STATE	FED. AID PROJ. NO	SHEET NO. / TOTAL SHEETS
Supervisor R. T. SHAEFER					10	WASH.		
Designed By M. TALUKDAR 9/96					JOB NUMBER 96W035			
Checked By F. KESHAVARZI 10/96								
Detailed By V.B. SCHICCHI 9/96					5054			
Bridge Projects Engr.								
Prelim. Plan By								
Architect/Specialist	DATE	REVISION	BY	APP'D				

15-NOV-96

BRIDGE AND STRUCTURES OFFICE

RAYMOND T. SHAEFER — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — 14378 — 11-15-96 — EXPIRES 4/23/98
SUPERVISING BRIDGE ENGINEER

CHARLES C. RUTH — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — 11-15-96 — EXPIRES 5/3/98
BRIDGE DESIGN ENGINEER

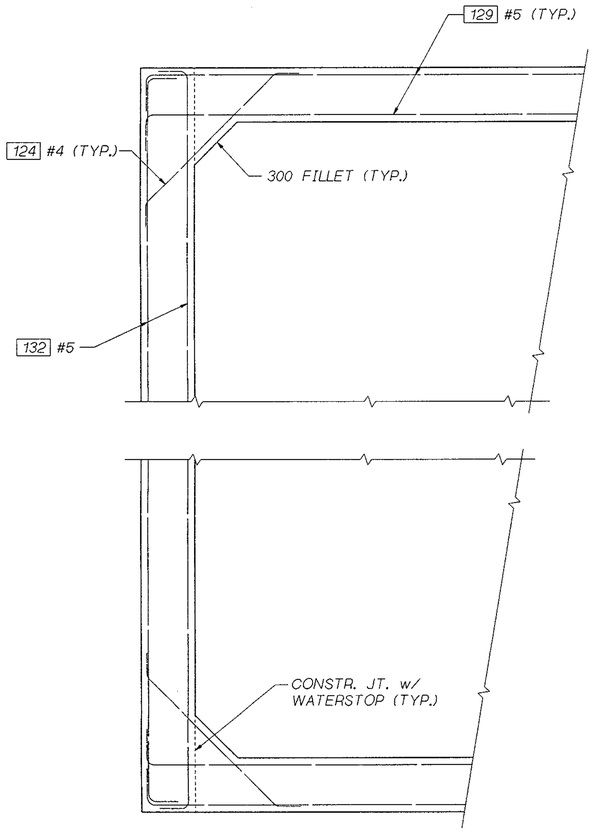
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

NW-12 VAULT SECTIONS

BRIDGE SHEET NO. 13

SHEET 203 OF 663 SHEETS



PLAN - CORNER DETAIL
TYP. ALL 4 CORNERS

FOR "AS CONSTRUCTED PLANS" ONLY

SR 405 JOB NO. 7082 SHEET 14

Bridge Design Engr. C. C. RUTH	VAULTSROOT:[FGB]VAULT9_5.FGB;1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	BRIDGE AND STRUCTURES OFFICE	SR 405 BOTHELL TO SWAMP CREEK I/C HOV LANES - STAGE 1 TANKS AND VAULTS	BRIDGE SHEET NO. 14
Supervisor R. T. SHAEFER												
Designed By M. TALUKDAR 9/96					10	WASH.						SHEET 204 OF 663 SHEETS
Checked By F. KESHAVARZI 10/96												
Detailed By V.B. SCHICCHI 9/96					JOB NUMBER 96W035							
Bridge Projects Engr.												
Prelim. Plan By					5054							
Architect/Specialist	DATE	REVISION	BY	APP'D								

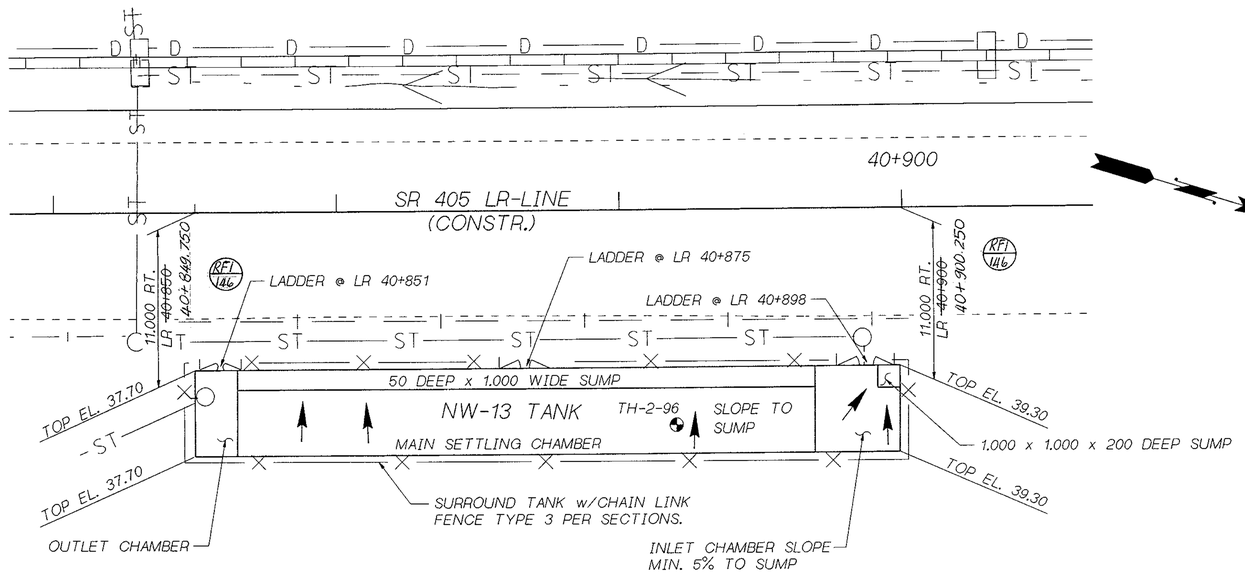
RAYMOND T. SHAEFER — STATE OF WASHINGTON — 14370 — REGISTERED PROFESSIONAL ENGINEER — 11-15-96 — EXPIRES 4/23/98
SUPERVISING BRIDGE ENGINEER

CHARLES F. RUTH — STATE OF WASHINGTON — 10805 — REGISTERED PROFESSIONAL ENGINEER — 11-15-96 — EXPIRES 5/3/98
BRIDGE DESIGN ENGINEER

Washington State Department of Transportation

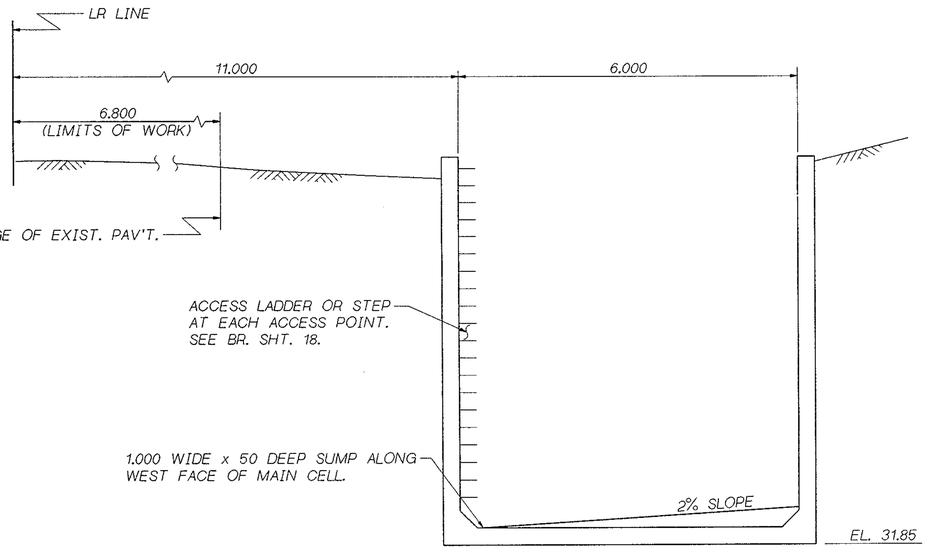
NW-12 VAULT WALL DETAILS

15-NOV-96



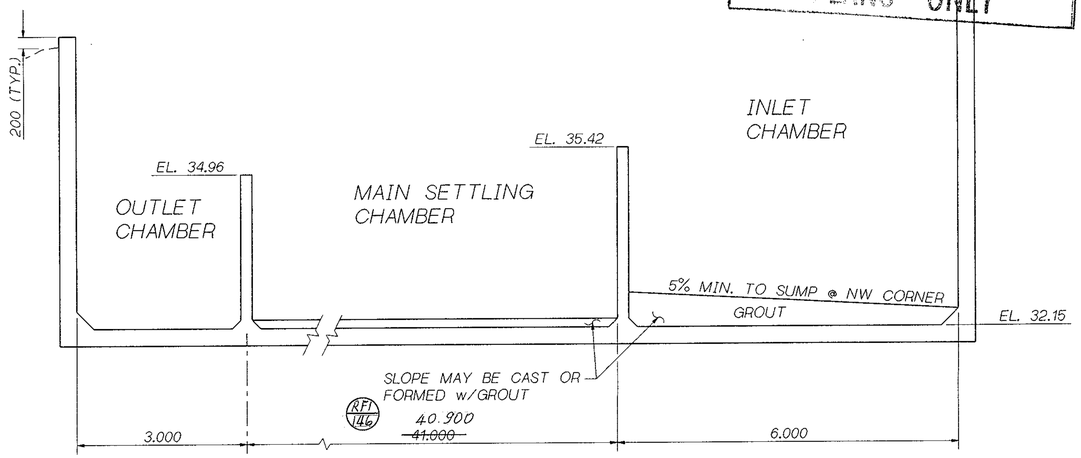
PLAN VIEW - NW-13

NOTE:
FOR FIXTURES, FENCE, GATE LOCATIONS ETC. SEE DRAINAGE DETAIL SHT. DD-7.



TYPICAL SECTION

TAKEN AT LR LINE STA. 40+880



LONGITUDINAL SECTION

FOR "AS CONSTRUCTED PLANS" ONLY

SR 405 JOB NO. 7082 SHEET 15

Bridge Design Engr. C. C. RUTH	VAULTSROOT:(FGB)VAULT7.FGB:1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor R. T. SHAEFER					10	WASH.			
Designed By M. TALUKDAR 8/96					JOB NUMBER				
Checked By F. KESHAVARZI 10/96					96W035				
Detailed By V.B. SCHICCHI 8/96									
Bridge Projects Engr.									
Prelim. Plan By	09/25/96 RFI #146		ALM		5054				
Architect/Specialist	DATE	REVISION	BY	APP'D					

15-NOV-96

BRIDGE AND STRUCTURES OFFICE

RAYMOND T. SHAEFER — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 4/23/98 — 11-15-96 — SUPERVISING BRIDGE ENGINEER

CHARLES C. RUTH — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 5/3/98 — 11-15-96 — BRIDGE DESIGN ENGINEER

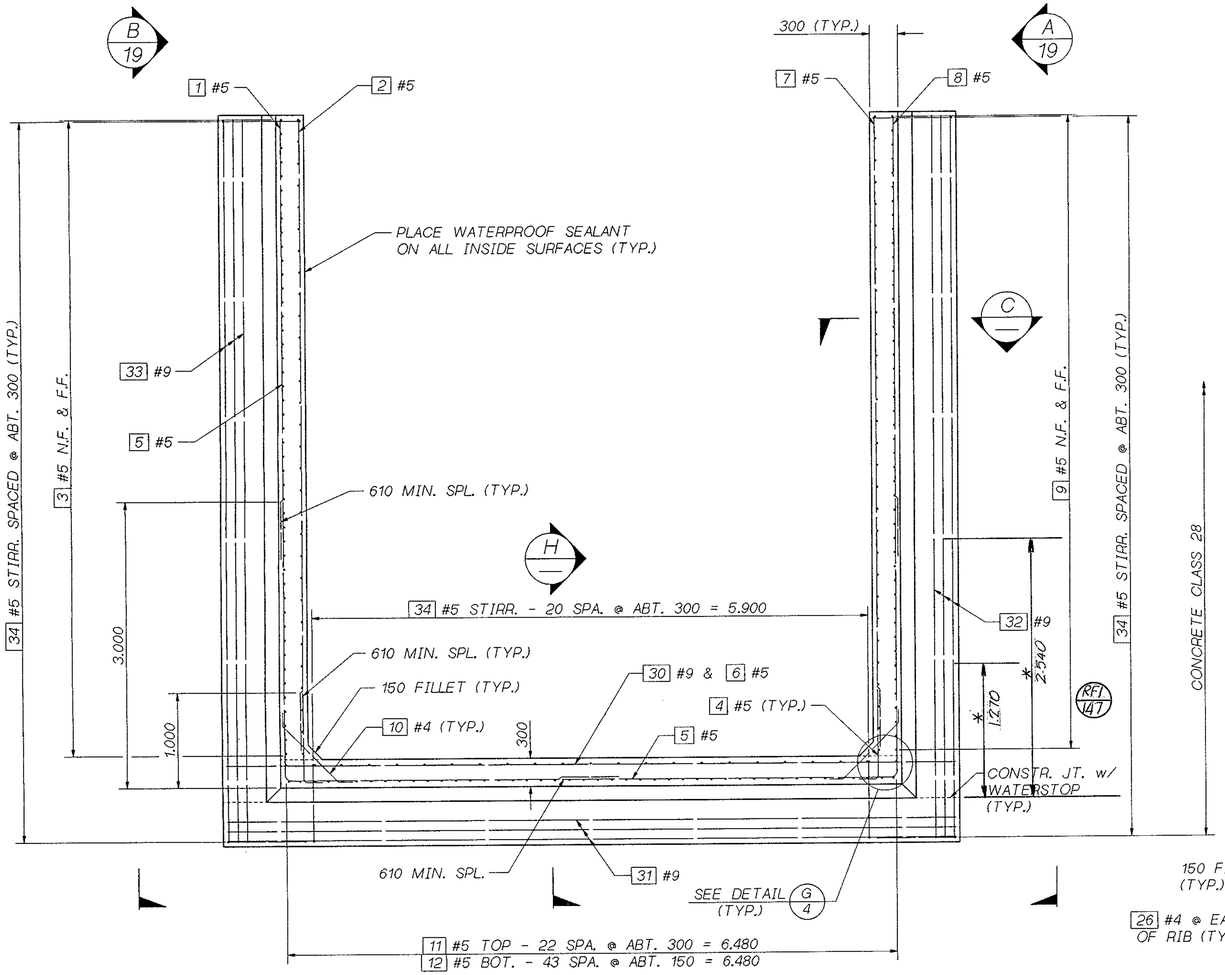
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

LAYOUT - NW-13 TANK

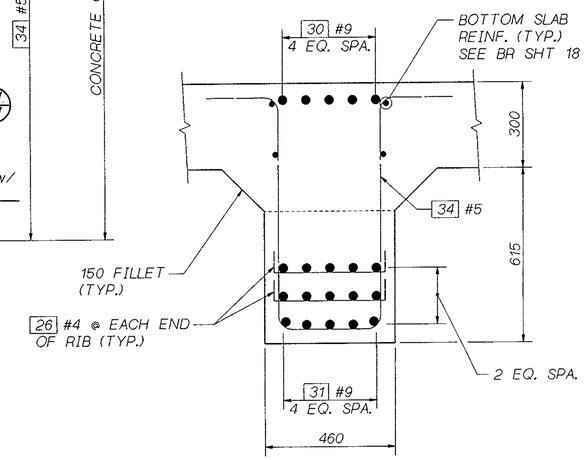
BRIDGE SHEET NO. 15

SHEET 205 OF 663 SHEETS



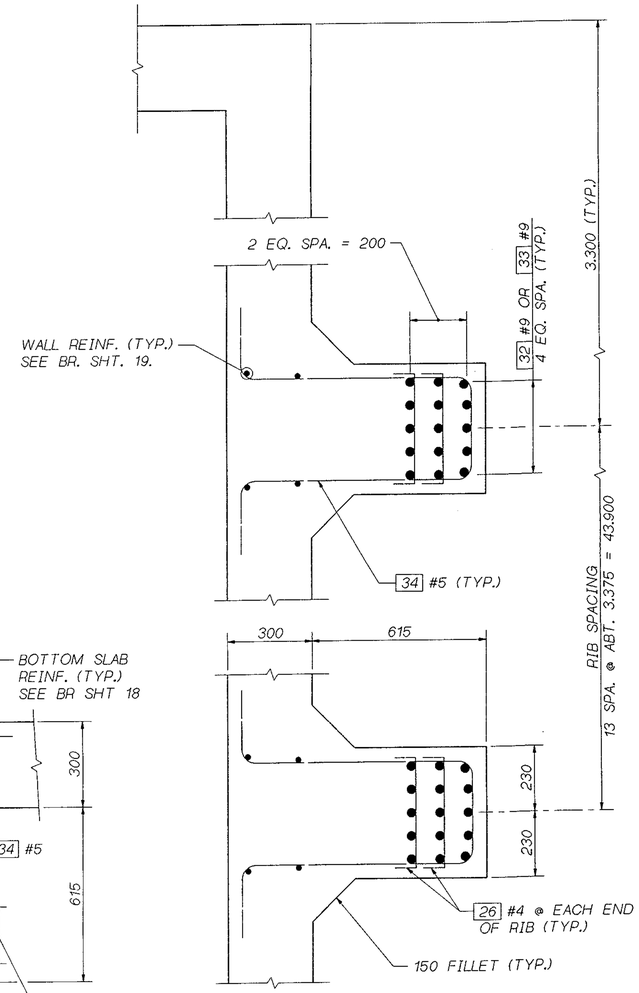
TYPICAL SECTION THRU RIB

* 32 OR 33 STAGGER SPLICE LOCATION EVERY OTHER BAR W/ 1.270 LAP SPLICE



SECTION H / 17

BOT. SLAB REINF. NOT SHOWN FOR CLARITY.



SECTION C

WALL REINF. NOT SHOWN FOR CLARITY.

FOR "AS CONSTRUCTED PLANS" ONLY

Bridge Design Engr. C. C. RUTH	VAULTSROOT:[FGB]VAULT7_1.FGB;1			REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	BRIDGE AND STRUCTURES OFFICE
Supervisor R. T. SHAEFER				10	WASH.				
Designed By M. TALUKDAR 8/96				JOB NUMBER 96W035					
Checked By F. KESHAVARZI 10/96									
Detailed By V.B. SCHICCHI 8/96				5054					
Bridge Projects Engr.	10/06/98	* PER RAY SHAEFFER							
Prelim. Plan By	10/02/98	RFI # 147	AJM						
Architect/Specialist	DATE	REVISION	BY APP'D						

RAYMOND T. SHAEFER, STATE OF WASHINGTON, 14378, REGISTERED PROFESSIONAL ENGINEER, EXPIRES 4/23/98 — 11-15-96 SUPERVISING BRIDGE ENGINEER

CHARLES C. RUTH, STATE OF WASHINGTON, 14606, REGISTERED PROFESSIONAL ENGINEER, EXPIRES 5/3/98 — 11-15-96 BRIDGE DESIGN ENGINEER

Washington State Department of Transportation

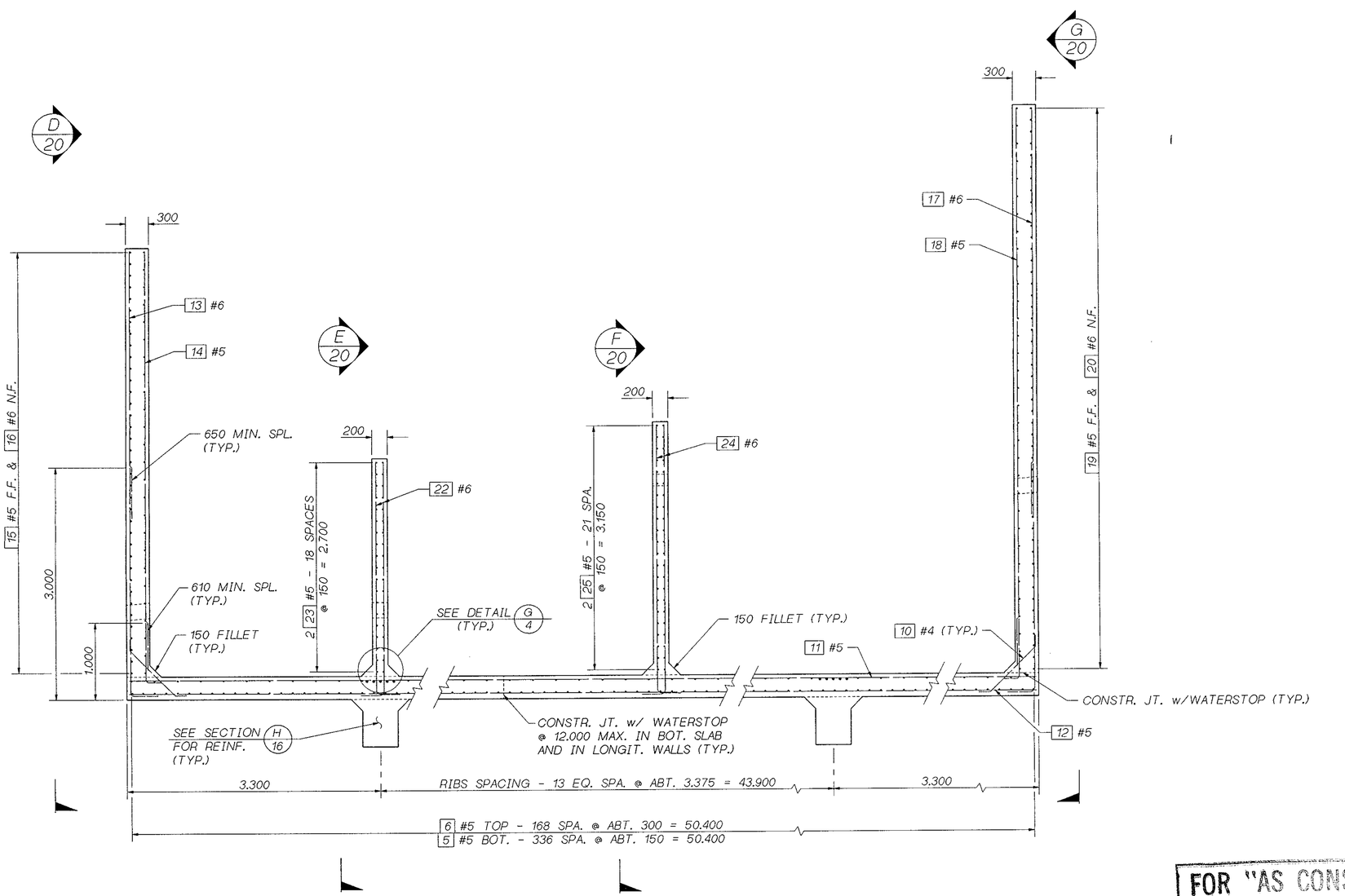
SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

NW-13 TANK SECTIONS

BRIDGE SHEET NO. 16
SHEET 206 OF 663 SHEETS

SR 405 JOB NO. 7082 SHEET 16

15-NOV-96



TYPICAL LONGITUDINAL SECTION REINFORCEMENT

FOR "AS CONSTRUCTED PLANS" ONLY

SR 405 JOB NO. 7082 SHEET 17

Bridge Design Engr. C. C. RUTH	VAULTSROOT:[FGB]VAULT7_2.FGB;1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor R. T. SHAEFER					10	WASH.			
Designed By M. TALUKDAR 8/96					JOB NUMBER				
Checked By F. KESHAVARZI 10/96					96W035				
Detailed By V.B. SCHICCHI 8/96									
Bridge Projects Engr.									
Prelim. Plan By	1/8/97	ADDED CONST. JT. AND NOTE	MT	CCR	5054				
Architect/Specialist	DATE	REVISION	BY	APP'D					

13-JAN-97

BRIDGE AND STRUCTURES OFFICE

RAYMOND T. SHAEFER — STATE OF WASHINGTON — 14078 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 4/23/98 — 1-13-97 — SUPERVISING BRIDGE ENGINEER

CHARLES C. RUTH — STATE OF WASHINGTON — 13622 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 5/3/98 — 1-14-97 — BRIDGE DESIGN ENGINEER

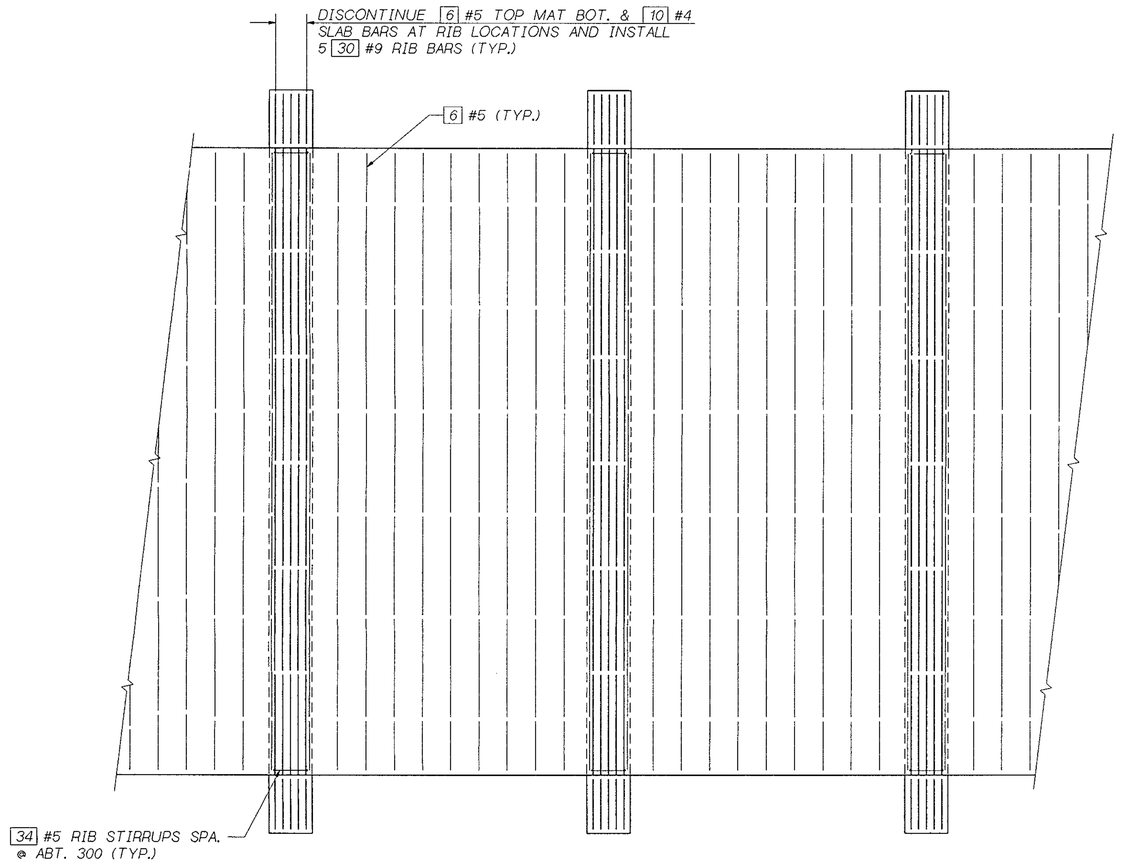
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

NW-13 TANK SECTIONS

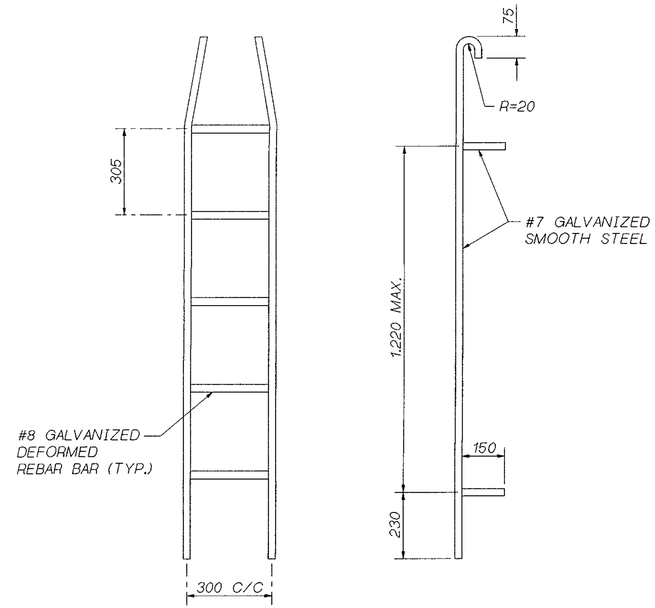
BRIDGE SHEET NO. 17

SHEET 207 OF 663 SHEETS

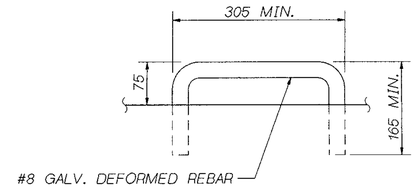


PARTIAL PLAN - BOTTOM SLAB

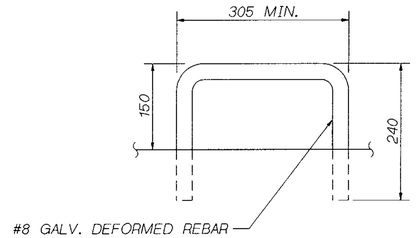
WALLS NOT SHOWN FOR CLARITY.



PREFABRICATED LADDER



HANDHOLD



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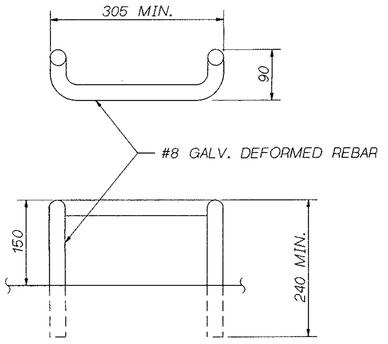


DROP RUNG STEP

FOR "AS CONSTRUCTED PLANS" ONLY

SR 405 JOB NO. 7082 SHEET 18

Bridge Design Engr. C. C. RUTH	VAULTSROOT:(FGB)VLT7_SLAB.FGB.1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor R. T. SHAEFER					10	WASH.			
Designed By M. TALUKDAR 9/96									
Checked By F. KESHAVARZI 10/96					JOB NUMBER				
Detailed By V.B. SCHICCHI 9/96					96W035				
Bridge Projects Engr.									
Prelim. Plan By					5054				
Architect/Specialist	DATE	REVISION	BY	APP'D					

15-NOV-96

BRIDGE AND STRUCTURES OFFICE

RAYMOND T. SHAEFER — STATE OF WASHINGTON — 14378 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 4/23/98 — 11-15-96 — SUPERVISING BRIDGE ENGINEER

CHARLES C. RUTH — STATE OF WASHINGTON — 10824 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 5/3/98 — 11-15-96 — BRIDGE DESIGN ENGINEER

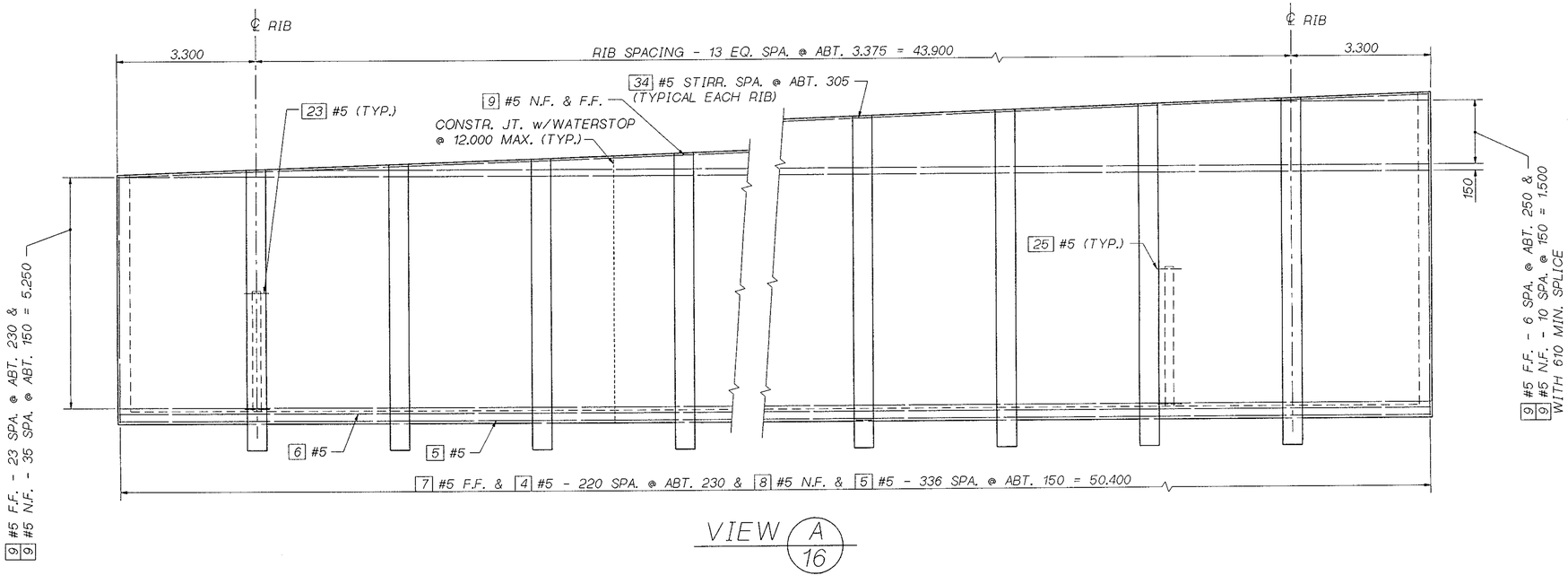
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

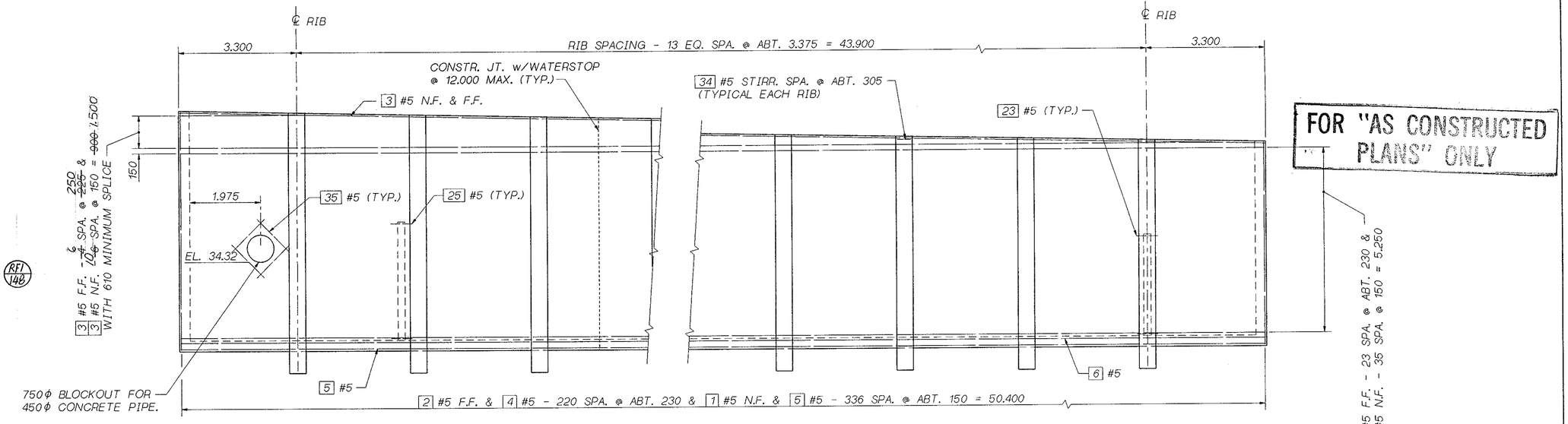
NW-13 TANK SLAB PLAN

BRIDGE SHEET NO. 18

SHEET 208 OF 663 SHEETS



VIEW A
16



FOR "AS CONSTRUCTED PLANS" ONLY

VIEW B
16

SR 405 JOB NO. 7082 SHEET 19

Bridge Design Engr. C. C. RUTH	VAULTSROOT:(FGB)VAULT7_3.FGB:1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	BRIDGE AND STRUCTURES OFFICE
Supervisor R. T. SHAEFER					10	WASH.				
Designed By M. TALUKDAR 8/96										
Checked By F. KESHAVARZI 9/96										
Detailed By V.B. SCHICCHI 8/96	10/2/96	RFI-148	AJM		JOB NUMBER					
Bridge Projects Engr.	10/8/96	REINF. SPACING DIMENSIONS REV.	BD		96W035					
Prelim. Plan By	1/8/97	ADDED CONST. JT. AND NOTE	MT	CGR						
Architect/Specialist	DATE	REVISION	BY	APP'D	5054					

13-JAN-97

RAYMOND T. SHAEFER — STATE OF WASHINGTON — 14278 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 4/23/98
1-13-97 SUPERVISING BRIDGE ENGINEER

CHARLES C. RUTH — STATE OF WASHINGTON — 13692 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 5/3/98
1-14-97 BRIDGE DESIGN ENGINEER

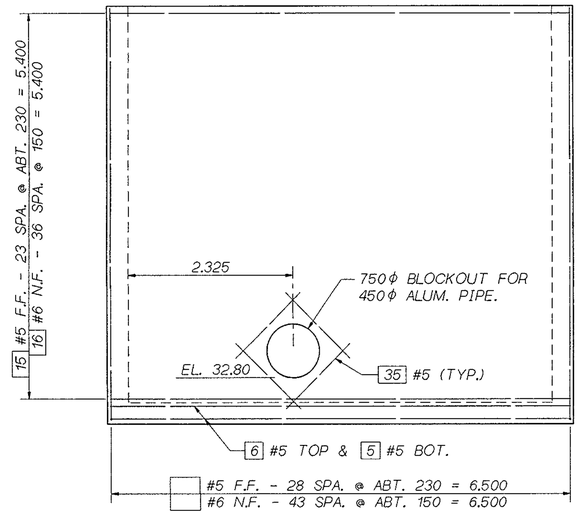
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

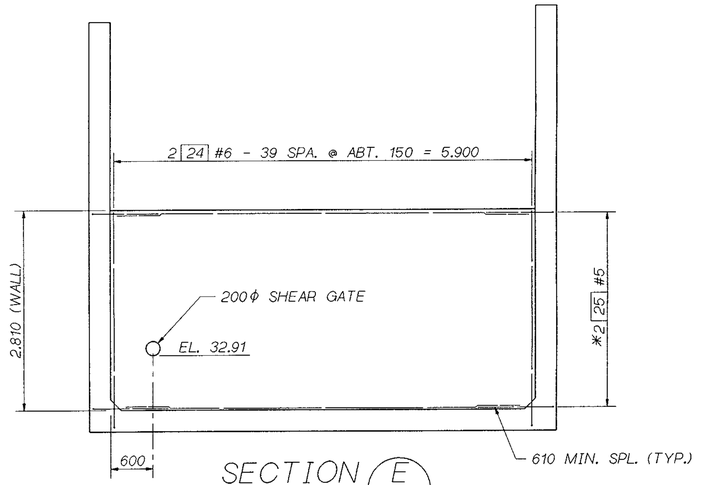
NW-13 TANK SECTIONS

BRIDGE SHEET NO. 19

SHEET 209 OF 663 SHEETS

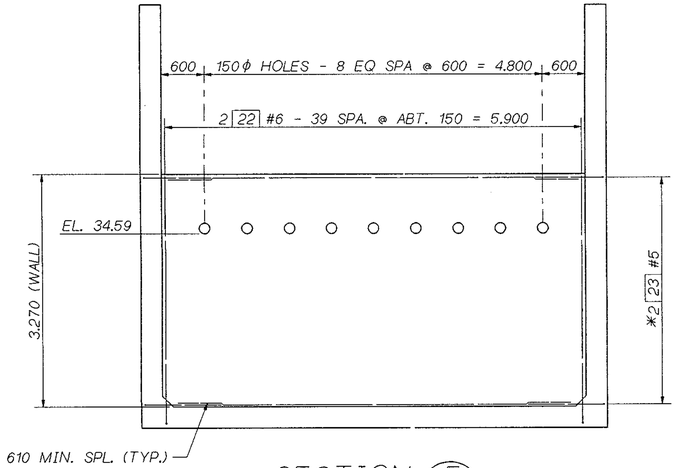


VIEW D / 17



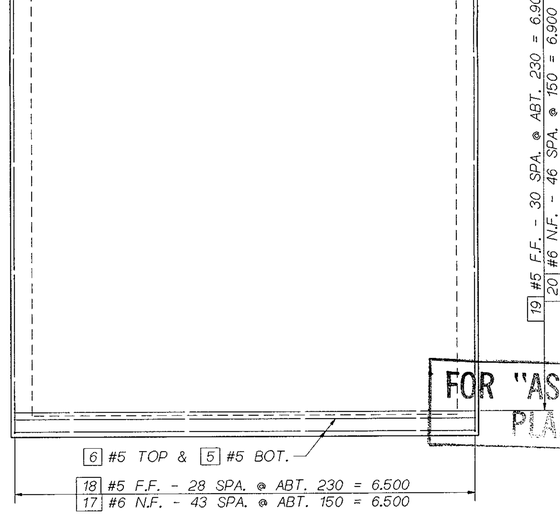
SECTION E / 17

* FOR DIMENSIONS NOT SHOWN, SEE BR. SHT. 17.



SECTION F / 17

* FOR DIMENSIONS NOT SHOWN, SEE BR. SHT. 17.



SECTION G / 17

SR 405 JOB NO. 7082 SHEET 20

Bridge Design Engr. C. C. RUTH	VAULTSROOT:(FGB)VAULT7_4.FGB:1			REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor R. T. SHAEFER				10	WASH.			
Designed By M. TALUKDAR 8/96				JOB NUMBER 96W035				
Checked By F. KESHAVARZI 9/96								
Detailed By V.B. SCHICCHI 8/96								
Bridge Projects Engr.								
Prelim. Plan By								
Architect/Specialist	DATE	REVISION	BY	APP'D	5054			

15-NOV-96

BRIDGE AND STRUCTURES OFFICE

RAYMOND T. SHAEFER — STATE OF WASHINGTON — 14378 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 4/23/98 — 11-15-96 — SUPERVISING BRIDGE ENGINEER

CHARLES C. RUTH — STATE OF WASHINGTON — 13902 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 5/3/98 — BRIDGE DESIGN ENGINEER

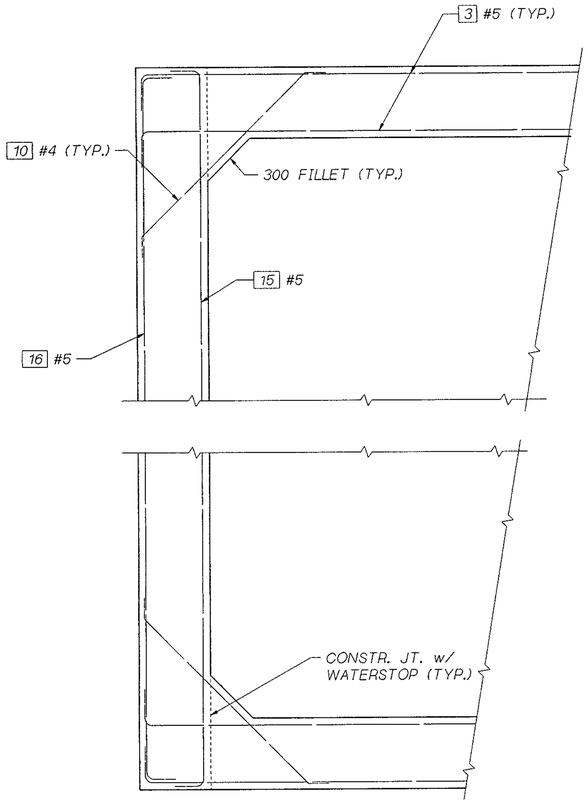
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

NW-13 TANK SECTIONS

BRIDGE SHEET NO. 20

SHEET 210 OF 663 SHEETS



PLAN - CORNER DETAIL
TYP. ALL 4 CORNERS

FOR "AS CONSTRUCTED PLANS" ONLY

SR 405 JOB NO. 7082 SHEET 21

Bridge Design Engr. C. C. RUTH	VAULTSROOT:[FGB]VAULT7_5.FGB;1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	BRIDGE AND STRUCTURES OFFICE	
Supervisor R. T. SHAEFER					10	WASH.				RAYMOND T. SHAEFER STATE OF WASHINGTON 14278 REGISTERED PROFESSIONAL ENGINEER 11-15-96 EXPIRES 4/23/98 SUPERVISING BRIDGE ENGINEER	CHARLES C. RUTH STATE OF WASHINGTON 13822 REGISTERED PROFESSIONAL ENGINEER 11-15-96 EXPIRES 5/3/98 BRIDGE DESIGN ENGINEER
Designed By M. TALUKDAR 9/96					JOB NUMBER 96W035						
Checked By F. KESHAVARZI 9/96											
Detailed By V.B. SCHICCHI 9/96											
Bridge Projects Engr.											
Prelim. Plan By					5054						
Architect/Specialist	DATE	REVISION	BY	APP'D							

15-NOV-96

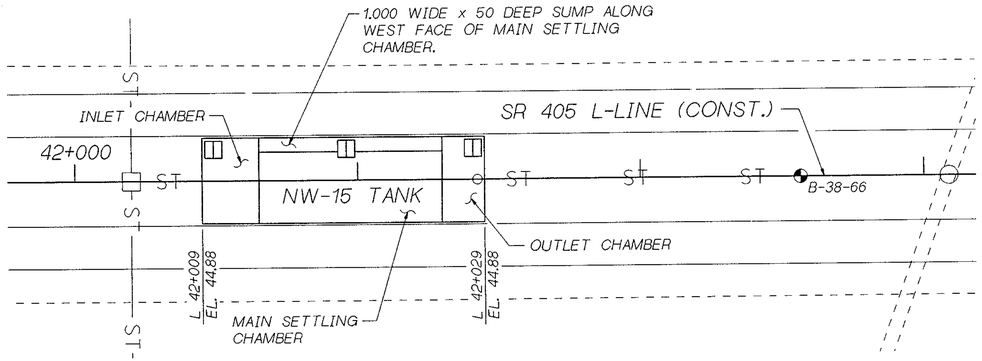
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

NW-13 TANK SECTIONS

BRIDGE SHEET NO. 21

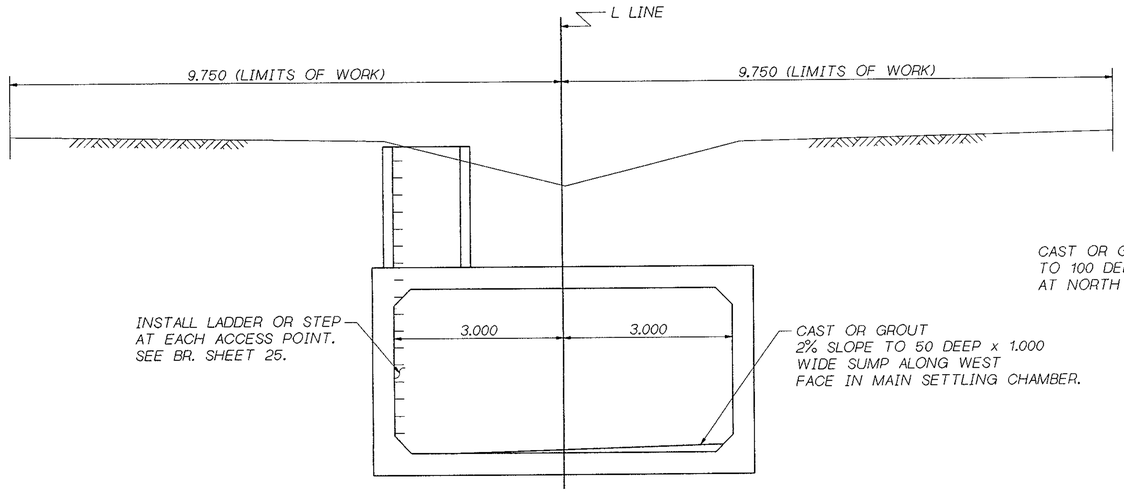
SHEET 211 OF 663 SHEETS



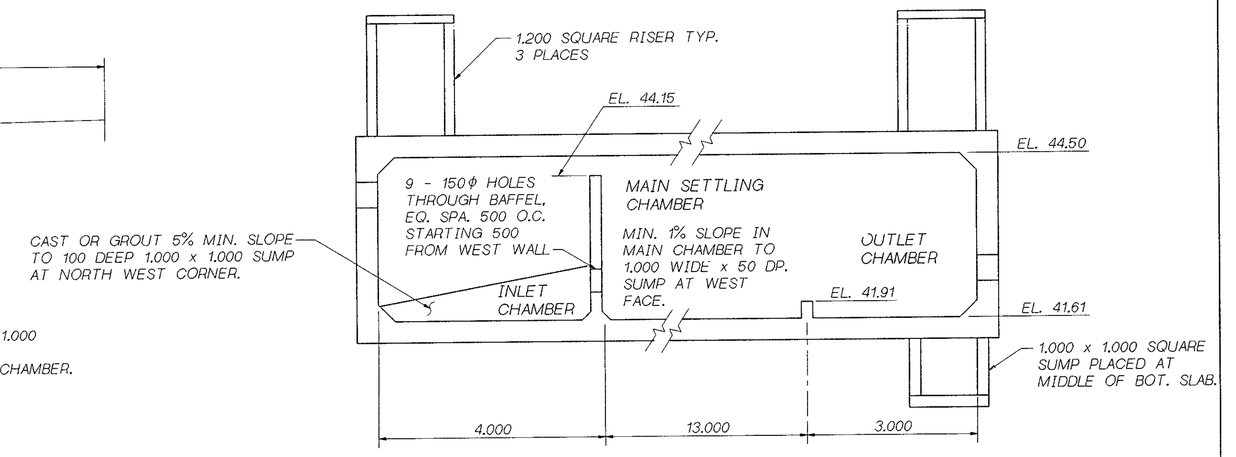
BH-13-93, L STA. 41+972, OFFSET 19.200 RT.

PLAN VIEW - NW-15

NOTE:
FOR FIXTURES, RISERS, ACCESS DOORS, PIPES ETC. SEE DRAINAGE DETAILS SHEET DD-8.



TYPICAL SECTION
TAKEN AT L LINE STA. 42+020



LONGITUDINAL SECTION

FOR "AS CONSTRUCTED PLANS" ONLY

SR 405 JOB NO. 7082 SHEET 22

Bridge Design Engr C. C. RUTH	VAULTSROOT (.FGB) VAULT8.FGB: 1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor R. T. SHAEFER					10	WASH.			
Designed By M. TALUKDAR 8/96						JOB NUMBER			
Checked By F. KESHAVARZI 9/96						96W035			
Detailed By V.B. SCHICCHI 8/96									
Bridge Projects Engr.									
Prelim. Plan By						5054			
Architect/Specialist	DATE	REVISION	BY	APP'D					

15-NOV-96

BRIDGE AND STRUCTURES OFFICE

RAYMOND T. SHAEFER — STATE OF WASHINGTON — 14378 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 6/23/98
11-15-96 SUPERVISING BRIDGE ENGINEER

CHARLES C. RUTH — STATE OF WASHINGTON — 12602 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 5/3/98
11-15-96 BRIDGE DESIGN ENGINEER

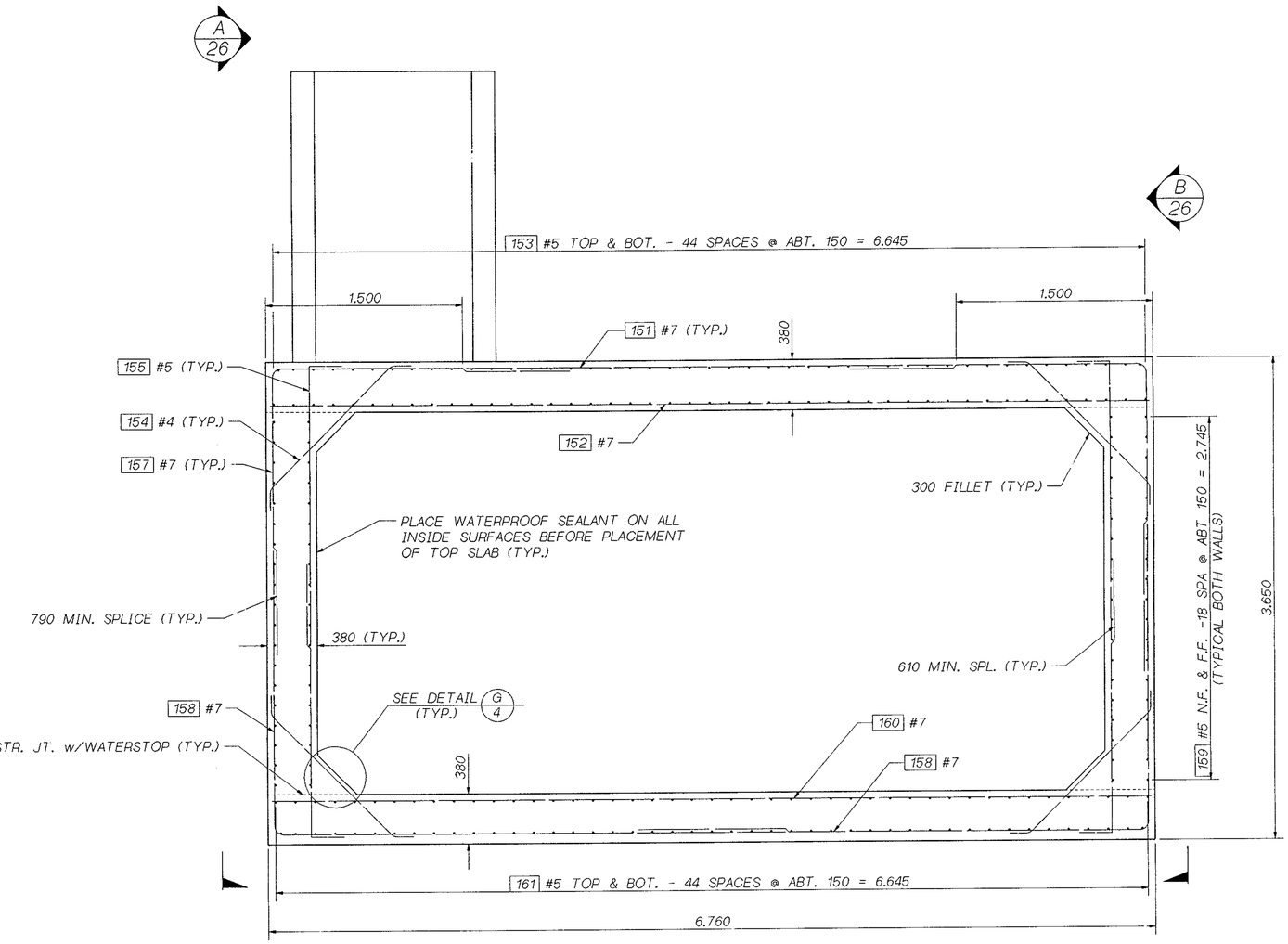
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

LAYOUT - NW-15 VAULT

BRIDGE SHEET NO. 22

SHEET 212 OF 663 SHEETS



TYPICAL TRANSVERSE SECTION

FOR "AS CONSTRUCTED PLANS" ONLY

SR 405 JOB NO. 7082 SHEET 23

Bridge Design Engr. C. C. RUTH	VAULTSROOT:(FGB)VAULT8_1.FGB:1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor R. T. SHAEFER					10	WASH.			
Designed By M. TALUKDAR 8/96					JOB NUMBER				
Checked By F. KESHAVARZI 9/96					96W035				
Detailed By V.B. SCHICCHI 8/96									
Bridge Projects Engr.					5054				
Prelim. Plan By									
Architect/Specialist	DATE	REVISION	BY	APP'D					

15-NOV-96

BRIDGE AND STRUCTURES OFFICE

RAYMOND T. SHAEFER — STATE OF WASHINGTON — 14078 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 4/23/98 — 11-15-96 — SUPERVISING BRIDGE ENGINEER

CHARLES C. RUTH — STATE OF WASHINGTON — 10826 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 5/3/98 — 11-15-96 — BRIDGE DESIGN ENGINEER

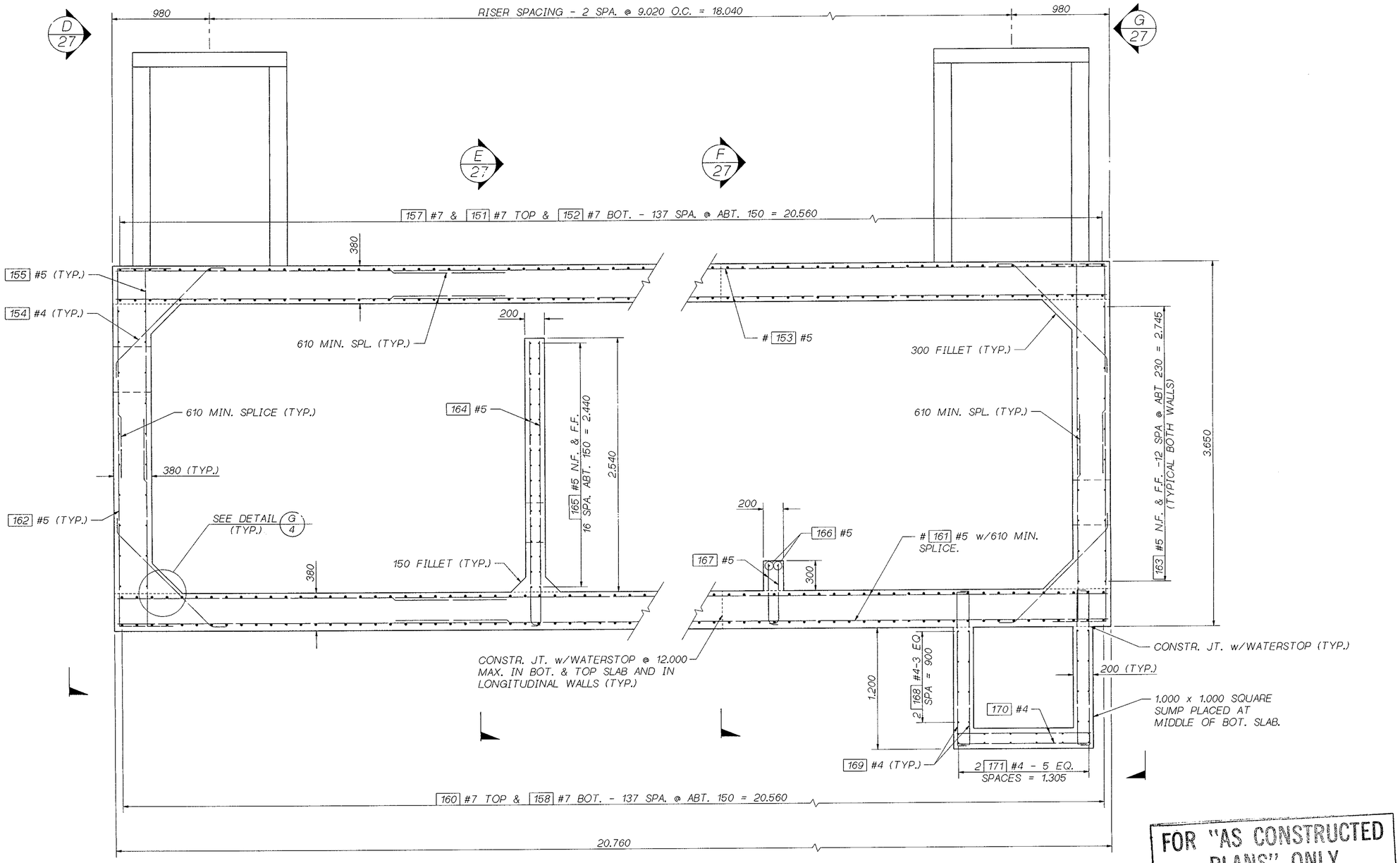
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

NW-15 VAULT SECTIONS

BRIDGE SHEET NO. 23

SHEET 213 OF 663 SHEETS



FOR "AS CONSTRUCTED PLANS" ONLY

TYPICAL LONGITUDINAL SECTION

- BAR LENGTH AND SPLICE LOCATION AT CONTRACTORS OPTION.

SR 405 JOB NO. 7082 SHEET 24

Bridge Design Engr. C. C. RUTH	VAULTSROOT:(FGB)VAULT8_2.FGB;1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor R. T. SHAEFER					10	WASH.			
Designed By M. TALUKDAR 8/96					JOB NUMBER				
Checked By F. KESHAVARZI 9/96					96W035				
Detailed By V.B. SCHICCHI 8/96					5054				
Bridge Projects Engr.									
Prelim. Plan By									
Architect/Specialist	DATE	REVISION	BY	APP'D					

15-NOV-96

BRIDGE AND STRUCTURES OFFICE

RAYMOND T. SHAEFER — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — 14378 — EXPIRES 4/23/98 — 11-15-96 — SUPERVISING BRIDGE ENGINEER

CHARLES C. RUTH — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — 13602 — EXPIRES 5/3/98 — 11-15-96 — BRIDGE DESIGN ENGINEER

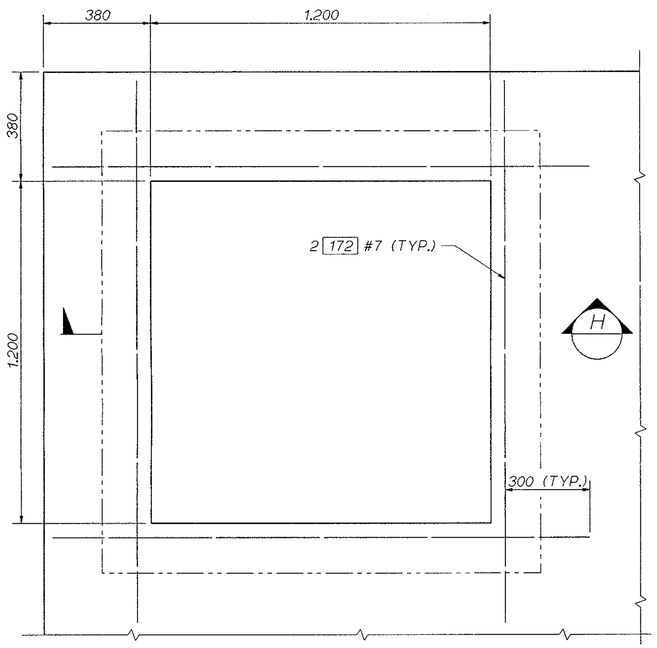
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

NW-15 VAULT SECTIONS

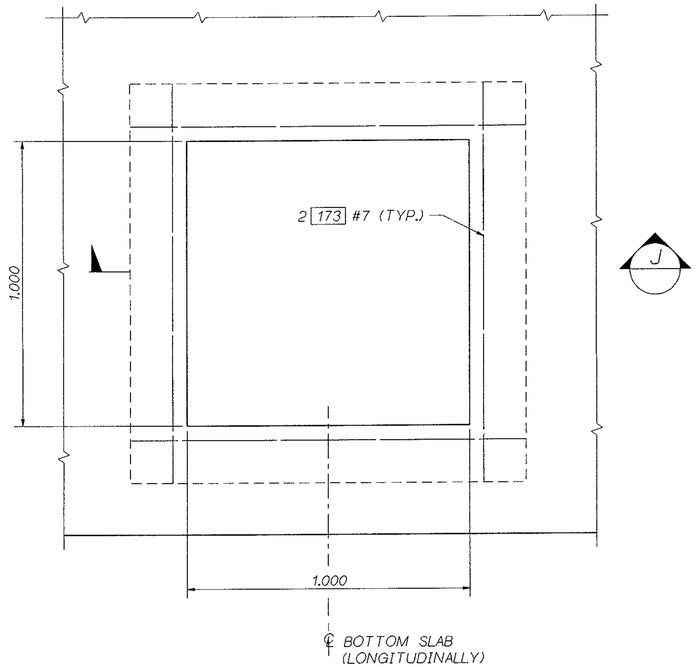
BRIDGE SHEET NO. 24

SHEET 214 OF 663 SHEETS



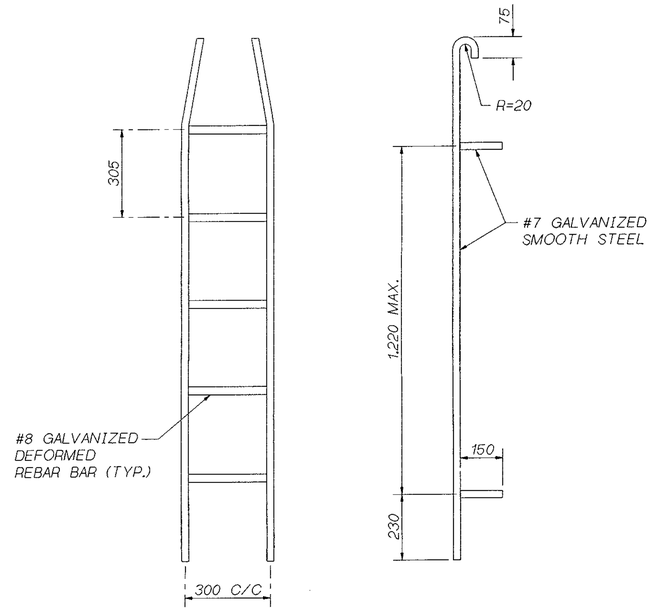
REINF. @ RISER OPENING

DETAIL TYPICAL 3 PLACES
SLAB BARS NOT SHOWN FOR CLARITY.

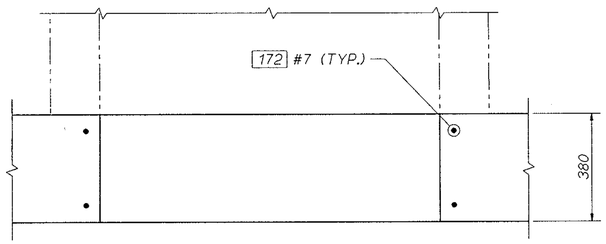


REINF. @ SUMP OPENING

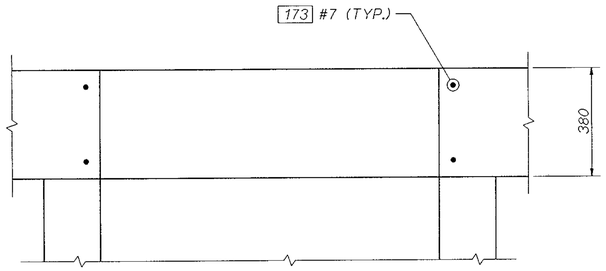
SLAB BARS NOT SHOWN FOR CLARITY.



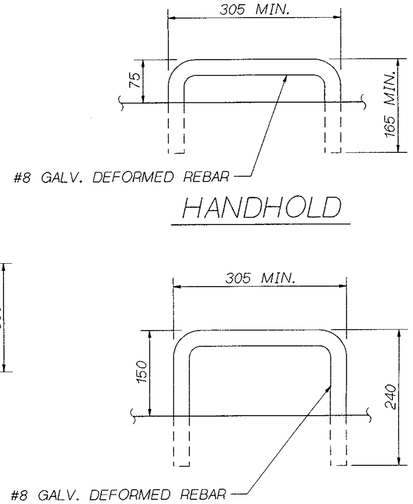
PREFABRICATED VAULT LADDER

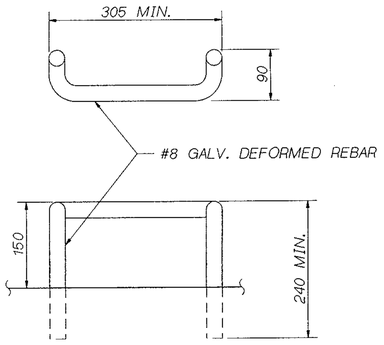


SECTION H



SECTION J





DROP RUNG VAULT STEP

FOR "AS CONSTRUCTED PLANS" ONLY

SR 405 JOB NO. 7082 SHEET 25

Bridge Design Engr. C. C. RUTH	VAULTSROOT:(FGB)VLT8_SLAB.FGB;1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	BRIDGE AND STRUCTURES OFFICE
Supervisor R. T. SHAEFER					10	WASH.				
Designed By M. TALUKDAR 9/96										
Checked By					JOB NUMBER					
Detailed By V.B. SCHICCHI 9/96					96W035					
Bridge Projects Engr.										
Prelim. Plan By					5054					
Architect/Specialist	DATE	REVISION	BY	APP'D						

15-NOV-96

RAYMOND T. SHAEFER — STATE OF WASHINGTON — 14378 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 4/23/98 — 11-15-96 — SUPERVISING BRIDGE ENGINEER

CHARLES C. RUTH — STATE OF WASHINGTON — 13622 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 5/3/98 — 11-15-96 — BRIDGE DESIGN ENGINEER

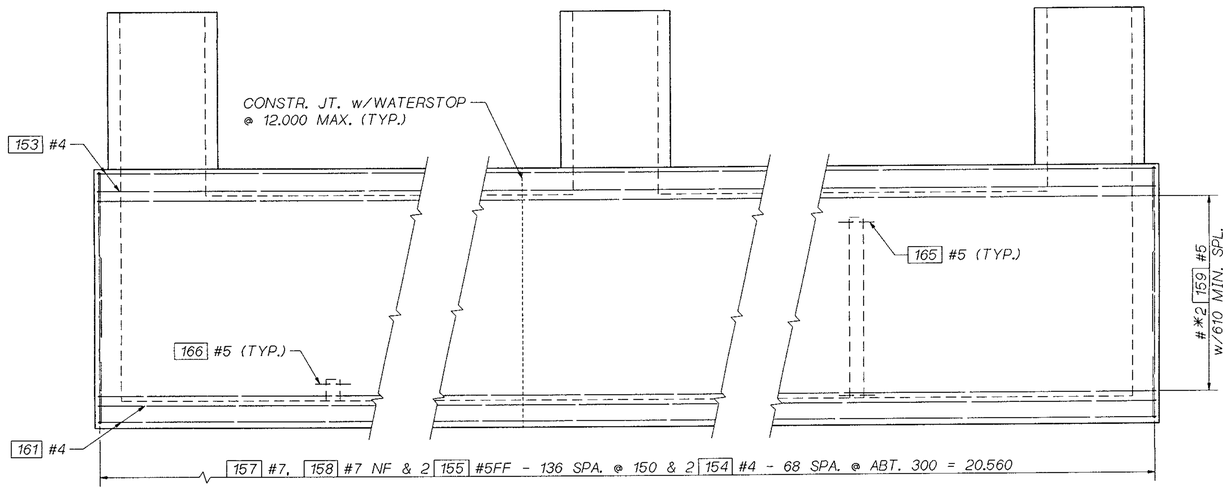
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

NW-15 VAULT SLAB DETAILS

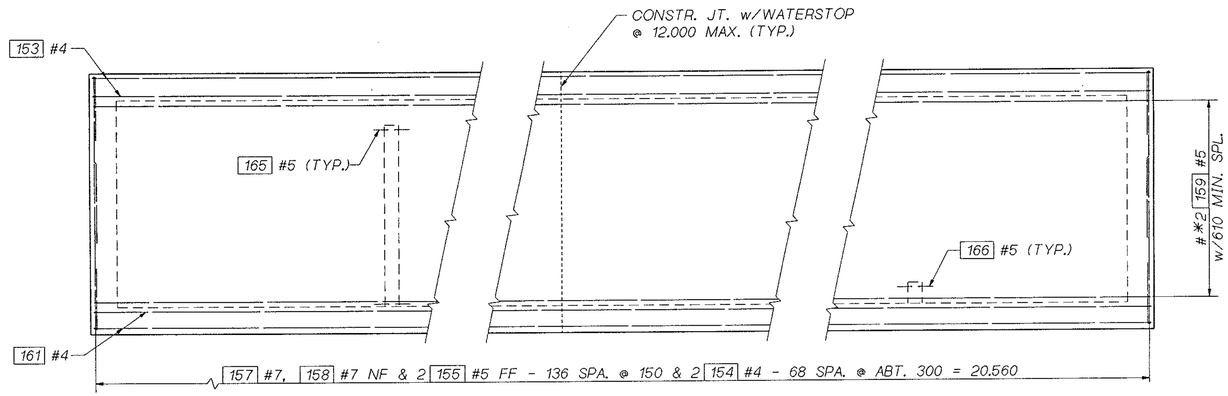
BRIDGE SHEET NO. 25

SHEET 215 OF 663 SHEETS



VIEW A
23

* FOR DIMENSIONS NOT SHOWN, SEE BR. SHT. XX.
# BAR LENGTH AND SPLICE LOCATION AT CONTRACTORS OPTION.



VIEW B
23

* FOR DIMENSIONS NOT SHOWN, SEE BR. SHT. XX.
# BAR LENGTH AND SPLICE LOCATION AT CONTRACTORS OPTION.

FOR "AS CONSTRUCTED PLANS" ONLY

SR 405 JOB NO. 7082 SHEET 26

Bridge Design Engr. C. C. RUTH	VAULTSROOT:(FGB)VAULT8_3.FGB:1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor R. T. SHAEFER					10	WASH.			
Designed By M. TALUKDAR 8/96					JOB NUMBER				
Checked By F. KESHAVARZI 9/96					96W035				
Detailed By V.B. SCHICCHI 8/96									
Bridge Projects Engr.									
Prelim. Plan By									
Architect/Specialist	DATE	REVISION	BY	APP'D	5054				

15-NOV-96

BRIDGE AND STRUCTURES OFFICE

RAYMOND T. SHAEFER — STATE OF WASHINGTON — 14378 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 4/23/98
11-15-96 SUPERVISING BRIDGE ENGINEER

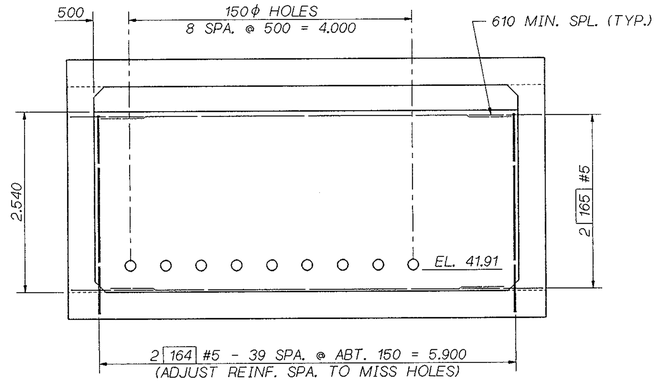
CHARLES C. RUTH — STATE OF WASHINGTON — 13622 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 5/3/98
11-15-96 BRIDGE DESIGN ENGINEER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

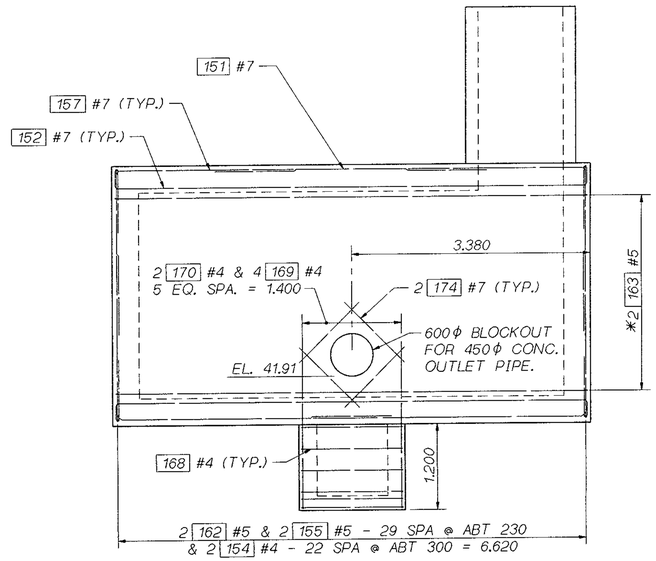
NW-15 VAULT SECTIONS

BRIDGE SHEET NO. 26
SHEET 216 OF 663 SHEETS



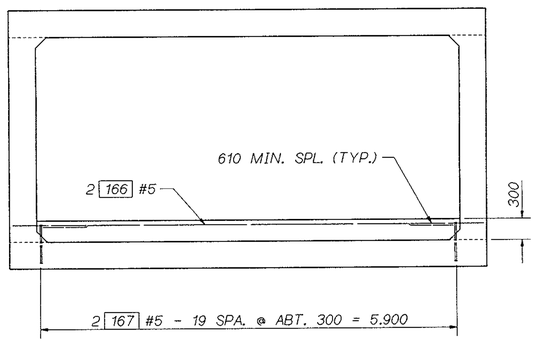
SECTION E 24

FOR REINF. & DIMENSIONS NOT SHOWN SEE "TYPICAL TRANSVERSE SECTION" BRIDGE SHEET 23.



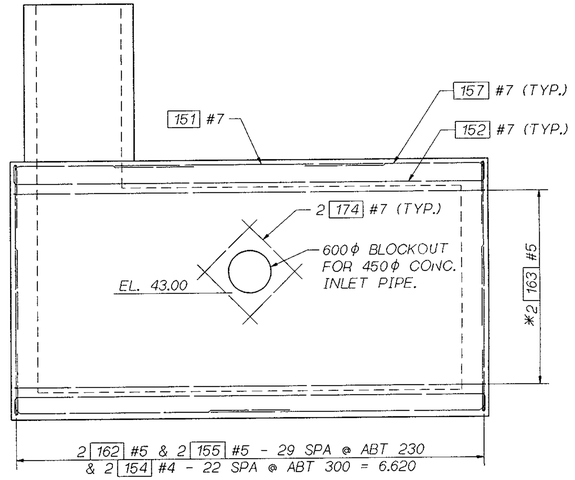
SECTION G 24

* FOR DIMENSIONS NOT SHOWN, SEE BR. SHT. 23.



SECTION F 24

FOR REINF. & DIMENSIONS NOT SHOWN SEE "TYPICAL TRANSVERSE SECTION" BRIDGE SHEET 24.



VIEW D 24

* FOR DIMENSIONS NOT SHOWN, SEE BR. SHT. 24.

FOR "AS CONSTRUCTED PLANS" ONLY

SR 405 JOB NO. 7082 SHEET 27

Bridge Design Engr. C. C. RUTH	VAULTSROOT: (FGB) VAULT8_4. FGB: 1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor R. T. SHAEFER					10	WASH.			
Designed By M. TALUKDAR 8/96					JOB NUMBER 96W035				
Checked By									
Detailed By V.B. SCHICCHI 8/96									
Bridge Projects Engr.					5054				
Prelim. Plan By									
Architect/Specialist	DATE	REVISION	BY	APP'D					

15-NOV-96

BRIDGE AND STRUCTURES OFFICE

RAYMOND T. SHAEFER — STATE OF WASHINGTON — 14378 — REGISTERED PROFESSIONAL ENGINEER — 11-15-96 — EXPIRES 4/23/98 — SUPERVISING BRIDGE ENGINEER

CHARLES C. RUTH — STATE OF WASHINGTON — 10862 — REGISTERED PROFESSIONAL ENGINEER — 11.15.96 — EXPIRES 5/3/98 — BRIDGE DESIGN ENGINEER

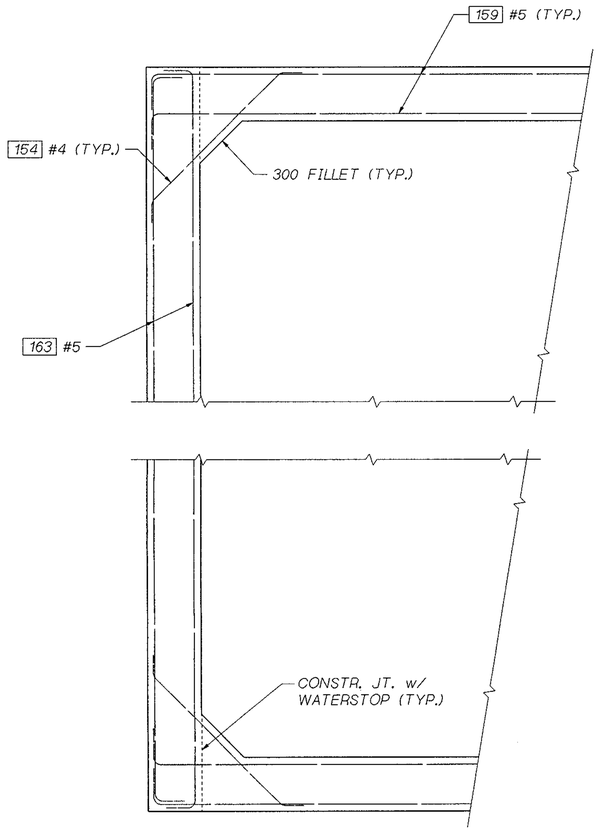
Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

NW-15 VAULT SECTIONS

BRIDGE SHEET NO. 27

SHEET 217 OF 663 SHEETS



PLAN - CORNER DETAIL
TYP. ALL 4 CORNERS

FOR "AS CONSTRUCTED PLANS" ONLY

SR 405 JOB NO. 7082 SHEET 28

Bridge Design Engr. C. C. RUTH	VAULTSROOT:\FGB\VAULT8_5.FGB; 1				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	BRIDGE AND STRUCTURES OFFICE	
Supervisor R. T. SHAEFER					10	WASH.					
Designed By M. TALUKDAR 9/96					JOB NUMBER 96W035						
Checked By F. KESHAVARZI 9/96											
Detailed By V.B. SCHICCHI 9/96											
Bridge Projects Engr.											
Prelim. Plan By											
Architect/Specialist	DATE	REVISION	BY	APP'D	5054						

15-NOV-96

RAYMOND T. SHAEFER — STATE OF WASHINGTON — 14370 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 4/23/98 — 11-15-96 — SUPERVISING BRIDGE ENGINEER

CHARLES C. RUTH — STATE OF WASHINGTON — 13622 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 5/3/98 — 11-15-96 — BRIDGE DESIGN ENGINEER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

NW-15 VAULT WALL DETAILS

BRIDGE SHEET NO. 28

SHEET 218 OF 663 SHEETS

S = Bar is included in substructure quantities.
L = Lump sum quantity.
T = Transverse or E = Earthquake
E = Bar is to be epoxy coated.
V = Bar dimensions vary between dimensions shown on this line and the following line.

MARK NO.	LOCATION	SIZE	NO REQ'D	BEND TYPE	TIE OR STIR.	LUMP SUM	SUBSTR.	EPOXY COAT	VARIES	NO. EACH	DIMENSIONS IN METERS (Out to Out) U	W	X	Y	Z	θ1 Deg.	θ2 Deg.	LENGTH Meter	MASS kg.
	NW-12 TANK																		
121	TOP MAT TRANSVERSE	9	401	50							7.220							7.220	14650
122	TOP MAT BOTTOM TRANSVERSE	9	401	50							10.120							10.120	20534
123	TOP MAT LONGITUDINAL	5	552	50							12.200							12.200	10452
123	TOP MAT LONGITUDINAL	5	276	50							6.900							6.900	2956
124	CORNER BAR	4	1016	80							2.000	0.305	0.305	0.051		135	135	2.603	2629
125	LONG. WALL VERTICAL	5	1784	54							2.250							2.465	6824
127	WALL AND TOP SLAB	9	802	80							2.610	2.770		0.142		90		5.297	21494
128	WALL AND BOTTOM SLAB	9	802	80							4.400	2.610		0.142		90		6.927	28109
129	WALL LONGITUDINAL	5	304	50							12.200							12.200	5756
129	WALL LONGITUDINAL	5	152	54							6.900							7.115	1678
130	BOTTOM SLAB TOP TRANSVERSE	9	401	50							10.120							10.120	20534
131	BOTTOM SLAB LONGITUDINAL	5	552	50							12.200							12.200	10452
131	BOTTOM SLAB LONGITUDINAL	5	276	50							6.900							6.900	2956
132	WALL TRANSVERSE	5	76	56							10.120							10.613	1252
133	INTERIOR WALL TRANSVERSE	5	24	50							9.000							9.000	335
133	INTERIOR WALL TRANSVERSE	5	48	50							1.170							1.170	87
134	INTERIOR WALL VERTICAL	5	120	54							2.280							2.495	465
135	INTERIOR WALL TRANSVERSE	5	34	50							9.000							9.000	475
135	INTERIOR WALL TRANSVERSE	5	68	50							1.170							1.170	123
136	INTERIOR WALL VERTICAL	5	120	54							2.950							3.165	589
137	TRANSVERSE WALL VERTICAL	5	180	54							2.250							2.465	689
139	TOP SLAB BLOCKOUT	9	24	50							1.900							1.900	231
140	WALL BLOCKOUT	5	16	50							1.500							1.500	37
	NW-15 TANK																		
151	TOP MAT TRANSVERSE	7	138	50							3.760							3.760	1578
152	TOP MAT BOTTOM TRANSVERSE	7	138	50							6.660							6.660	2796
153	TOP MAT LONGITUDINAL	5	180	50							10.640							10.640	2972
154	CORNER BAR	4	408	80							1.300	0.305	0.305	0.051		135	135	1.903	772
155	LONG.& transv. WALL VERTICA	5	668	54							2.080							2.295	2379
157	WALL AND TOP SLAB	7	276	80							2.610	2.240		0.089		90		4.794	4025
158	WALL AND BOTTOM SLAB	7	276	80							3.725	2.170		0.089		90		5.839	4903
159	WALL LONGITUDINAL	5	152	54							10.635							10.850	2559
160	BOTTOM SLAB TOP TRANSVERSE	7	138	50							6.660							6.660	2796
161	BOTTOM SLAB LONGITUDINAL	5	90	50							10.640							10.640	1486
162	WALL TRANSVERSE vert.	5	120	54							2.170							2.385	444
163	WALL TRANSVERSE horz.	5	52	56							6.660							7.153	577
164	INTERIOR WALL VERTICAL	5	80	54							2.870							3.085	383
165	INTERIOR WALL TRANSVERSE	5	34	50							6.000							6.000	317
165	INTERIOR WALL TRANSVERSE	5	68	50							1.000							1.000	106
166	INTERIOR WALL transverse	5	2	50							6.000							6.000	19
166	INTERIOR WALL transverse	5	2	50							1.000							1.000	3
167	TRANSVERSE WALL VERTICAL	5	40	54							0.670							0.885	55
168	sump bar	4	16	50							0.900							0.900	14
169	sump bar	4	24	56							1.480							1.874	45
170	sump bar	4	12	50							1.300							1.300	16
171	sump bar	4	12	50							1.300							1.300	16
172	TOP SLAB BLOCKOUT	7	24	50							2.500							2.500	183
173	bottom slab blockout	7	8	50							2.500							2.500	61
174	WALL BLOCKOUT	7	16	50							1.500							1.500	73
	NW-6 TANK																		
61	LONGITUDINAL WALL VERTICAL	5	193	50							5.380							5.380	1612
62	LONGITUDINAL WALL VERTICAL	8	193	50							4.290							4.290	3290
63	LONGITUDINAL WALL HORIZONTAL	5	144	50							12.200							12.200	2727
63	LONGITUDINAL WALL HORIZONTAL	5	144	54							2.840							3.055	683
64	BOTTOM SLAB TOP	7	193	50							6.860							6.860	4028
65	BOTTOM SLAB BOTTOM	8	386	80							3.960	2.550		0.067		90		5.481	9909
66	CORNER BAR	4	306	80							1.470	0.305	0.305	0.095		135	135	2.071	630
67	BOTTOM SLAB LONGITUDINAL	5	184	50							12.200							12.200	3484
68	LONGITUDINAL WALL VERTICAL	5	193	50							3.580							3.580	1072
69	LONGITUDINAL WALL VERTICAL	8	193	50							2.490							2.490	1905
70	LONGITUDINAL WALL HORIZONTAL	5	96	50							12.200							12.200	1818
70	LONGITUDINAL WALL HORIZONTAL	5	96	50							2.840							2.840	423
71	TRANSVERSE WALL VERTICAL	5	24	50				V	1		5.380							5.380	
											3.580							3.580	167
71	TRANSVERSE WALL VERTICAL	5	24	50				V	1		3.850							3.850	
											2.050							2.050	110
72	TRANSVERSE WALL HORIZONTAL	5	38	56							6.860							7.353	434
73	TRANSVERSE WALL VERTICAL	5	24	50				V	1		5.380							5.380	
											3.580							3.580	167
73	TRANSVERSE WALL VERTICAL	5	24	50				V	1		3.850							3.850	
											2.050							2.050	110
74	TRANSVERSE WALL HORIZONTAL	5	38	56							6.860							7.353	434
75	INTERIOR WALL VERTICAL	5	80	54							2.930							3.145	390
76	INTERIOR WALL HORIZONTAL	5	34	50							6.000							6.000	317
76	INTERIOR WALL HORIZONTAL	5	68	50							1.020							1.020	108
77	INTERIOR WALL VERTICAL	5	80	54							3.390							3.605	448
78	INTERIOR WALL HORIZONTAL	5	40	50							6.000							6.000	372
78	INTERIOR WALL HORIZONTAL	5	80	50							1.020							1.020	127
79	BLOCKOUT	5	16	50							1.000							1.000	25

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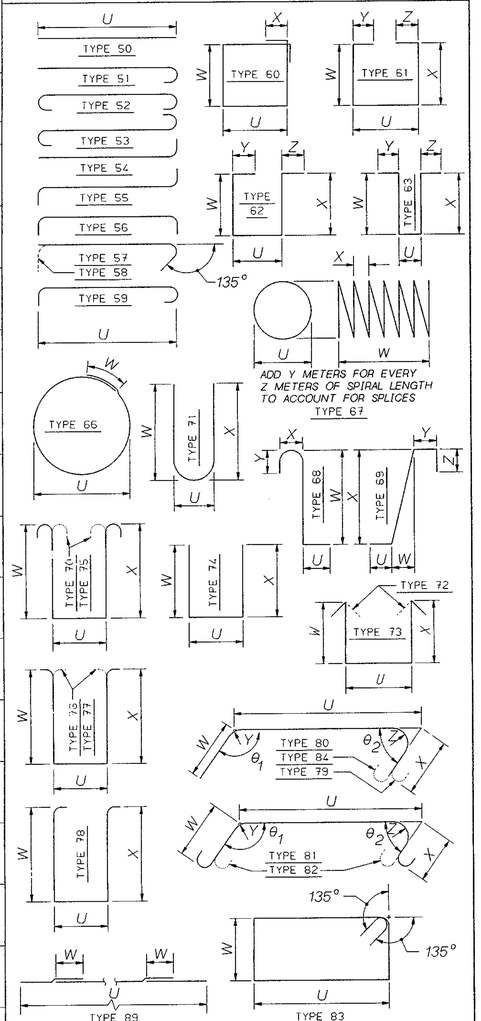
MARK NO.	LOCATION	SIZE	NO REQ'D	BEND TYPE	TIE OR STIR.	LUMP SUM	SUBSTR.	EPOXY COAT	VARIES	NO. EACH	DIMENSIONS IN METERS (Out to Out) U	W	X	Y	Z	θ1 Deg.	θ2 Deg.	LENGTH Meter	MASS kg.

STEEL REINFORCING BAR QUANTITIES NOT INCLUDED IN THIS BAR LIST

TRAFFIC BARRIER
BRIDGE GRATE INLETS
RETAINING WALL

BENDING DIAGRAMS



FOR "AS CONSTRUCTED PLANS" ONLY

NOTE:

1. ALL REINFORCING BARS ON THES SHEET SHALL BE AASHTO M-31 UNLESS SHOWN OTHERWISE.
2. REINFORCING FOR TRAFFIC BARRIERS NOT SHOWN IN THE BAR LIST. SEE TRAFFIC BARRIER SHEET.
3. BEND FOR TRANSVERSE BARS DUE TO ROADWAY CROWN CONDITIONS HAS NOT BEEN SHOWN. THESE BARS SHALL BE BENT AS REQUIRED TO CONFORM TO THE CONFIGURATION OF THE STRUCTURE.

$ NUMBER AND LENGTH OF BARS TO BE DETERMINED BY THE CONTRACTOR FROM PLANS.

SR 405 JOB NO. 7082 SHEET 29

Bridge Design Engr.	VAULTSROOT:[FGB]VLT_BAR.FGB.1			REGION NO.	STATE	FED. AID PROJ. NO.
Supervisor				10	WASH.	
Designed By M. TALUKDAR				JOB NUMBER		
Checked By				96W035		
Detailed By V.B. SCHICCHI						
Bridge Projects Engr.						
Prelim. Plan By						
Architect/Specialist	DATE	REVISION	BY	APP'D	5054	

15-NOV-96

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

BARLIST

BRIDGE SHEET NO. 29

SHEET 219 OF 663 SHEETS

S = Bar is included in substructure quantities.
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MARK NO.	LOCATION	SIZE	NO REQ'D	BEND TYPE	TIE OR STIR.	LUMP SUM	SUBSTR.	EPOXY COAT	VARIES	NO. EACH	DIMENSIONS IN METERS (Out to Out) U	W	X	Y	Z	θ1 Deg.	θ2 Deg.	LENGTH Meter	MASS kg.
	NW-13																		
1	LONGITUDINAL WALL VERTICAL	5	337	50					V	1	3.410 5.010							3.410 5.010	2202
2	LONGITUDINAL WALL VERTICAL	5	221	50					V	1	5.500 7.100							5.500 7.100	2161
3	LONGITUDINAL WALL HORIZONTAL	5	366	50							12.200							12.200	6930
3	LONGITUDINAL WALL HORIZONTAL	5	244	54							8.200							8.415	3187
3	LONGITUDINAL WALL HORIZONTAL	5	12	54					V	1	3.730 8.200							3.945 8.415	115
4	LONGITUDINAL WALL VERTICAL	5	442	54							0.900							1.115	765
5	BOTTOM SLAB BOTTOM	5	674	80							2.950	6.555		0.065				9.554	9994
6	BOTTOM SLAB TOP	5	169	50							6.500							6.500	1705
7	LONGITUDINAL WALL VERTICAL	5	221	50					V	1	5.500 7.100							5.500 7.100	2161
8	LONGITUDINAL WALL VERTICAL	5	337	50					V	1	3.410 5.010							3.410 5.010	2202
9	LONGITUDINAL WALL HORIZONTAL	5	366	50							12.200							12.200	6930
9	LONGITUDINAL WALL HORIZONTAL	5	244	54							8.200							8.415	3187
9	LONGITUDINAL WALL HORIZONTAL	5	12	54					V	1	3.730 8.200							3.945 8.415	115
10	CORNER BAR	4	89	80							1.300	0.305	0.305	0.051		135	135	1.903	168
11	BOTTOM SLAB LONGITUDINAL	5	69	50							12.200							12.200	1306
11	bottom slab longitudinal	5	46	50							8.200							8.200	585
12	BOTTOM SLAB LONGITUDINAL	5	132	50							12.200							12.200	2499
12	BOTTOM SLAB LONGITUDINAL	5	88	50							8.200							8.200	1120
13	TRANSVERSE WALL VERTICAL	6	44	50							3.150							3.150	310
14	TRANSVERSE WALL VERTICAL	5	29	50							5.500							5.500	248
15	TRANSVERSE WALL HORIZONTAL	5	24	56							6.500							6.993	260
16	TRANSVERSE WALL HORIZONTAL	5	37	56							6.500							6.993	402
17	TRANSVERSE WALL VERTICAL	6	44	50							4.750							4.750	467
18	TRANSVERSE WALL VERTICAL	5	29	50							7.100							7.100	320
19	TRANSVERSE WALL HORIZONTAL	5	31	56							6.500							6.993	336
20	TRANSVERSE WALL HORIZONTAL	6	47	56							6.500							7.092	745
22	INTERIOR WALL VERTICAL	6	80	54							2.710							2.968	531
23	INTERIOR WALL HORIZONTAL	5	38	50							6.000							6.000	354
23	INTERIOR WALL HORIZONTAL	5	76	50							0.910							0.910	107
24	INTERIOR WALL VERTICAL	6	80	54							3.170							3.428	613
26	rib end bars	4	84	56							0.450							0.844	70
25	INTERIOR WALL HORIZONTAL	5	44	50							6.000							6.000	410
25	INTERIOR WALL HORIZONTAL	5	88	50							0.910							0.910	124
30	HORIZONTAL RIB TOP	9	70	50							7.730							7.730	2738
31	HORIZONTAL RIB BOTTOM	9	210	50							7.730							7.730	8214
32	VERTICAL RIB	9	420	50					V	30	6.420							6.420	
34	RIB STIRRUP	5	994	63							8.020 0.450	0.810	0.810	0.250	0.250			8.020 2.411	15344 3719
35	BLOCKOUT	5	16	50							1.300							1.300	32

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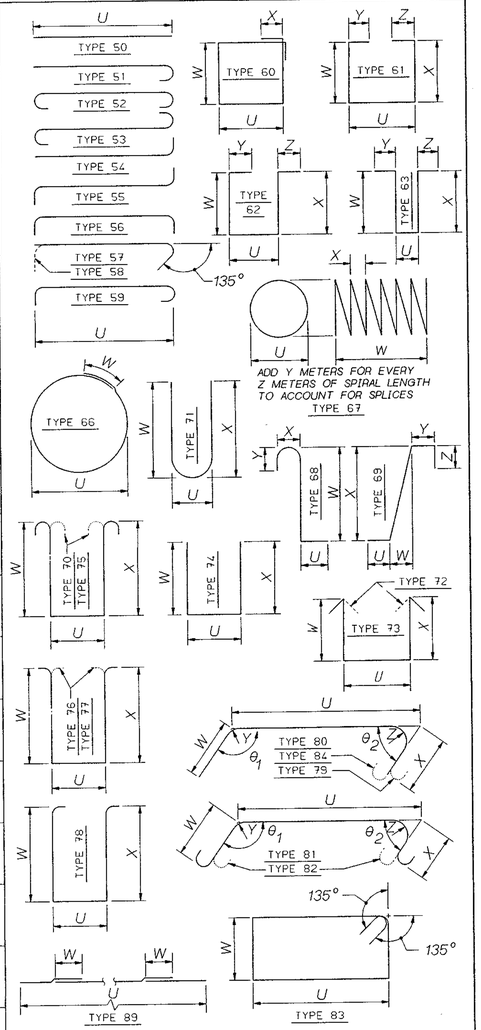
MARK NO.	LOCATION	SIZE	NO REQ'D	BEND TYPE	TIE OR STIR.	LUMP SUM	SUBSTR.	EPOXY COAT	VARIES	NO. EACH	DIMENSIONS IN METERS (Out to Out) U	W	X	Y	Z	θ1 Deg.	θ2 Deg.	LENGTH Meter	MASS kg.

STEEL REINFORCING BAR QUANTITIES NOT INCLUDED IN THIS BAR LIST

TRAFFIC BARRIER
BRIDGE GRATE INLETS
RETAINING WALL

BENDING DIAGRAMS



FOR "AS CONSTRUCTED PLANS" ONLY

NOTE:

1. ALL REINFORCING BARS ON THES SHEET SHALL BE AASHTO M-31 UNLESS SHOWN OTHERWISE.
2. REINFORCING FOR TRAFFIC BARRIERS NOT SHOWN IN THE BAR LIST. SEE TRAFFIC BARRIER SHEET.
3. BEND FOR TRANSVERSE BARS DUE TO ROADWAY CROWN CONDITIONS HAS NOT BEEN SHOWN. THESE BARS SHALL BE BENT AS REQUIRED TO CONFORM TO THE CONFIGURATION OF THE STRUCTURE.
4. $ NUMBER AND LENGTH OF BARS TO BE DETERMINED BY THE CONTRACTOR FROM PLANS.

SR 405 JOB NO. 7082 SHEET 30

Bridge Design Engr.	VAULTSROOT:\FGB\VLT2_BAR.FGB; 1	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor		10	WASH.			
Designed By M. TALUKDAR		JOB NUMBER 96W035				
Checked By						
Detailed By V.B. SCHIOCCHI						
Bridge Projects Engr.						
Prelim. Plan By						
Architect/Specialist	DATE REVISION BY APP'D	5054				

15-NOV-96

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1
TANKS AND VAULTS

BARLIST

BRIDGE SHEET NO 30

SHEET 220 OF 663 SHEETS

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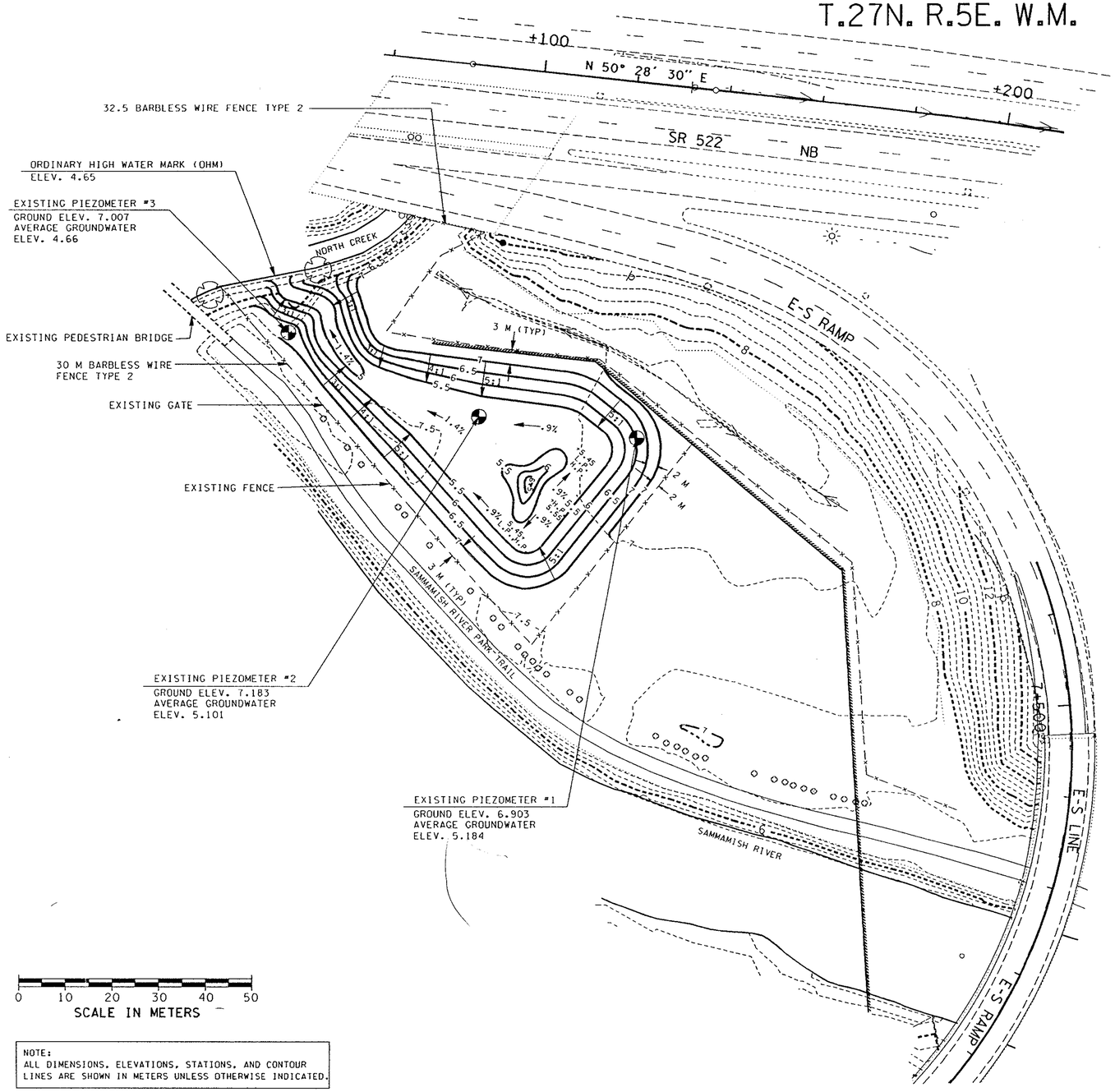

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE SHOWN IN METERS UNLESS OTHERWISE INDICATED.

LEGEND

+	PROPOSED SPOT ELEVATION
H.P.	HIGH POINT LOW POINT
L.P.	LOW POINT
----5----	EXISTING CONTOUR - .5 M INTERVAL
——5——	PROPOSED CONTOUR - .5 M INTERVAL
	EXISTING TREE - SAVE AND PROTECT

QUANTITY TABULATION - THIS SHEET ONLY

ITEM	QUANTITY
WETLAND MITIGATION EXCAVATION INCL. HAUL	3435 M^3
BARBLESS WIRE FENCE TYPE 2	62.5 M

NOTES:

1. WETLAND MITIGATION SITE IS NOT AVAILABLE FOR CONTRACTOR'S STAGING.
2. SEE SHEET S-18 FOR CONSERVATION AREA/ VEGETATION MANAGEMENT SIGNS AT WETLAND MITIGATION SITE.
3. SEE SHEET TESC 1 FOR PLACEMENT OF SILT FENCE AT WETLAND MITIGATION SITE.
4. SEE SHEET SP1 FOR SITE PREPARATION ACTIVITIES.TEMPORARY ACCESS, EASEMENT, AND CONSTRUCTION PERMIT AT WETLAND MITIGATION SITE.

FOR "AS CONSTRUCTED PLANS" ONLY

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
Sally A. Anderson
SALLY A. ANDERSON
CERTIFICATE NO. 372
DATE: 11-12-96

DESIGNED BY J. MABRY	7/96				
ENTERED BY R. TOBIN	7/96				
CHECKED BY J. BENNETT	7/96				
PROJ. ENGR. R. KINOSHITA	7/96				
REGIONAL ADM. J. OKAMOTO	7/96				
	DATE	DATE	REVISION	BY	

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER 96W035
CONTRACT NO. 5054

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

WETLAND MITIGATION GRADING PLAN

L1

SHEET 221 OF 663 SHEETS

PLANT MATERIAL LIST & QUANTITY ITEMS (SEE NOTE 5)

BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	ROOT CONDITION	REMARKS	SPACING
EMERGENTS: (Plant each species in groups of 25)						
Carex obnupta	Slough Sedge	110 EA.	150 mm (6") Top growth	Bare root- min. 80 mm (3") root spread	min.1 growth point	0.5 m (18") O. C.
Scirpus acutus	Hardstem Bulrush	110 EA.	50 mm (2") Length	Rhizome	1 or more growth points(primary eye/bud)	
Scirpus microcarpus	Small-fruited Bulrush	110 EA.	150 mm (6") Top growth	Bare root- min. 80 mm (3") root length	min.1 growth point	
Eleocharis palustris	Common Spikerush	110 EA.	150 mm (6") Top growth	Bare root- min. 80 mm (3") root length	min.1 growth point	
SHRUBS:						
Cornus sericea	Red-osier Dogwood	75 EA.	500 mm (18") Height	Bare root - min. 250 mm (10") root spread	min. 5 mm (3/16") caliper, 2 canes	1.5 m (5') O.C.
Physocarpus capitatus	Pacific Ninebark	75 EA.	500 mm (18") Height	Bare root - min. 250 mm (10") root spread	min. 5 mm (3/16") caliper	
Rubus parviflorus	Thimbleberry	270 EA.	500 mm (18") Height	Bare root - min. 250 mm (10") root spread	min. 5 mm (3/16") caliper	
Rubus spectabilis	Salmonberry	75 EA.	500 mm (18") Height	Bare root - min. 250 mm (10") root spread	min. 5 mm (3/16") caliper	
Sambucus callicarpa	Red Elderberry	270 EA.	500 mm (18") Height	Bare root - min. 250 mm (10") root spread	min. 5 mm (3/16") caliper	
LIVE STAKES:						
Salix lasiandra	Pacific Willow	55 EA.	500 mm - 600 mm (18"-24") Length	Live stake	6 mm - 25 mm (1/4 "-1") diameter: See Note 3	1.5 m (5') O.C.
Salix sitchensis	Sitka Willow	75 EA.				
TREES:						
Acer circinatum	Vine Maple	270 EA.	600 mm (24") Height	Bare root - min. 250 mm (10") root length	Multi-stem clump form: 2 stem minimum	1.5 m (5') O.C.
Populus trichocarpa	Black Cottonwood	10 EA.	500 mm (18") Height, min. 5 mm (3/16") caliper	Bare root - min. 250 mm (10") root length		
Pseudotsuga menziesii	Douglas Fir	45 EA.	400 mm (15") Height	No. 1 Container	Well Branched No Sheared Trees	See Sheet L3
Thuja plicata	Western Red Cedar	15 EA.	400 mm (15") Height	No. 1 Container		
Thuja plicata	Western Red Cedar	25 EA.	900 mm (3') Height	No. 2 Container		
Tsuga heterophylla	Western Hemlock	45 EA.	400 mm (15") Height	No. 1 Container		1.5 m (5') O.C.
BRUSHLAYER:						
Salix lasiandra	Pacific Willow	35m (115 l.f.)	900 mm - 1500 mm (3'-5') Live branch length	Live branch: 6 mm - 25 mm (1/4 "-1") diameter	See Notes 3 and 4. See detail 2 on sheet L4 and detail 3 on sheet L5	See sheet L3 for brushlayer locations.
Salix scouleriana	Scouler Willow	35m (115 l.f.)				
Salix sitchensis	Sitka Willow	35m (115 l.f.)				
OTHER ITEMS:						
Clearing		0.31 ha (0.75 Ac.)			See Special Provisions	
Seeding, Fertilizing, & Mulching-Mitigation		0.31 ha (0.75 Ac.)			See Special Provisions	
Soil Amendment		236 m3 (309 C.Y.)			See Special Provisions	
Fertilizer-Granular		77 Kg (170 Lbs.)			See Special Provisions	
Bark or Wood Chip Mulch		29 m3 (38 C.Y.)			See Special Provisions	
HABITAT STRUCTURES:						
Brushpile		3 EA.			See Special Provisions	
Log with Rootwad		1 EA.			See Special Provisions	
Stump with Rootwad		1 EA.			See Special Provisions	

NOTES:

1. A.S.N.S. REFERS TO AMERICAN STANDARD FOR NURSERY STOCK, 1990 EDITION, PUBLICATION ANSI 260.1-1990 FROM AMERICAN ASSOCIATION OF NURSERYMAN. IF DIFFERENCES ARISE BETWEEN A.S.N.S. AND THESE SPECIFICATIONS THEN THESE SPECIFICATIONS SHALL RULE.
2. SPECIFICATIONS FOR SIZE AND CONDITION ARE MINIMUM.
3. LIVE STAKES AND LIVE BRANCHES SHALL BE FIELD COLLECTED WITHIN A 16Km (10 MILE) RADIUS OF THE PROJECT SITE.
4. BRUSHLAYERS SHALL BE CONSTRUCTED WITH A RANDOM MIX OF THE THREE WILLOW SPECIES LISTED. SEE SPECIAL PROVISIONS. TOTAL QUANTITY OF BRUSHLAYERS IS 105 M (345 L.F.)
5. QUANTITIES SHOWN ARE TOTAL QUANTITIES FOR SHEET L3.

FOR "AS CONSTRUCTED PLANS" ONLY

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
Sally A. Anderson
SALLY A. ANDERSON
CERTIFICATE NO. 372
DATE: 11-12-96

						REGION NO. 10	STATE WASH	FED.AID PROJ.NO.	ENVIRONMENTAL AND ENGINEERING SERVICE CENTER
DESIGNED BY J. MABRY	7/96								
ENTERED BY R. TOBIN	7/96					JOB NUMBER 96W035			
CHECKED BY J. BENNETT	7/96								
PROJ. ENGR. R. KINOSHITA	7/96					CONTRACT NO. 5054			
REGIONAL ADM. J. OKAMOTO	7/96								
	DATE	DATE	REVISION		BY				

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

PLANT MATERIAL LIST & QUANTITY ITEMS

L2

SHEET 222 OF 336 SHEETS

PLOTS Tue Nov 12 07:45:25 1996 D412006 T:\412006\A\2FP3-5.PLT c:\dgn\12095\plantdet.dgn 12 NOV 96 4/2006

PLOT: \412006\A\OFP3-2.PLT
PLOT2 12 NOV 96 c:\dgn\12095\sr522.dgn 412006
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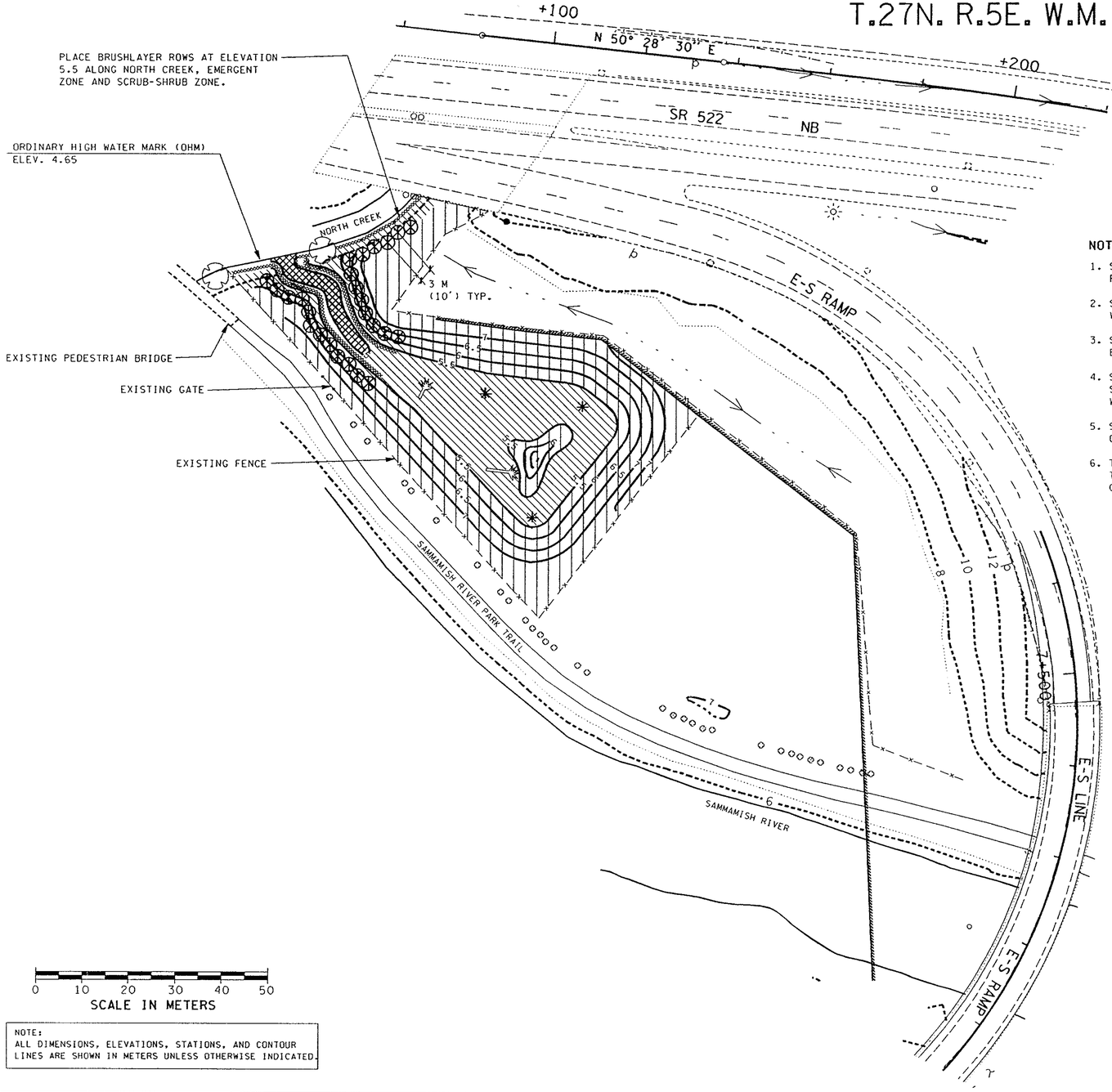
T.27N. R.5E. W.M.



NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS, AND CONTOUR LINES ARE SHOWN IN METERS UNLESS OTHERWISE INDICATED.

NOTES:

1. SEE PLANT MATERIAL LIST ON SHEET L2 FOR PLANT REQUIREMENTS AND TOTAL QUANTITIES.
2. SEE SPECIAL PROVISIONS FOR SEEDING IN WETLAND MITIGATION SITE.
3. SOIL AMENDMENT SHALL BE INSTALLED BEFORE PLANTING. SEE SPECIAL PROVISIONS.
4. SEE SPECIAL PROVISION AND DETAILS ON SHEETS L5-L7 FOR PLACEMENT OF BARK OR WOOD CHIP MULCH.
5. SEE DETAILS 1 AND 2 ON SHEET L5 FOR LAYOUT OF PLANTING.
6. THE WETLAND MITIGATION SITE SHALL BE TREATED AND CUT BEFORE PLANTING. SEE CLEARING AND GRUBBING SPECIAL PROVISION.

LEGEND

—5—	PROPOSED CONTOUR - .5 M INTERVAL SEE SHEET L2 FOR GRADING PLAN
	EXISTING TREE - SAVE AND PROTECT

QUANTITY TABULATION-THIS SHEET ONLY (SEE NOTE 1)

SYMBOL	ITEM	QUANTITY
	UPLAND ZONE:	
	THIMBLEBERRY	270 EA.
	RED ELDERBERRY	270
	VINE MAPLE	270
	DOUGLAS FIR	45
	WESTERN HEMLOCK	45
	WETLAND MITIGATION ZONES:	
	EMERGENT ZONE:	
	SLOUGH SEDGE	110
	SMALL-FRUITED BULRUSH	110
	HARDSTEM BULRUSH	110
	COMMON SPIKERUSH	110
	SCRUB-SHRUB ZONE ZONE:	
	RED-OSIER DOGWOOD	75
	PACIFIC NINEBARK	75
	SALMONBERRY	75
	PACIFIC WILLOW	55
	SITKA WILLOW	75
	BLACK COTTONWOOD	10
	WESTERN RED CEDAR	15
⊗	WESTERN RED CEDAR 1500 mm (3'HT.)	25
	BRUSHLAYER:	
	PACIFIC WILLOW	35 m
	SCOULER WILLOW	35
	SITKA WILLOW	35
	OTHER ITEMS:	
	CLEARING	0.31 ha
	SEEDING.FERTILIZING AND MULCHING-MITIGATION	0.31 ha
	SOIL AMENDMENT	236 m^3
	FERTILIZER-GRANULAR	77 kg
	BARK OR WOOD CHIP MULCH	29 m^3
	HABITAT STRUCTURE:	
*	BRUSHPILE	3 EA.
	LOG WITH ROOTWAD	1
	STUMP WITH ROOTWAD	1

FOR "AS CONSTRUCTED PLANS" ONLY

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
Sally A. Anderson
SALLY A. ANDERSON
CERTIFICATE NO. 372
DATE: 11-12-96

DESIGNED BY J. MABRY	7/96				
ENTERED BY R. TOBIN	7/96				
CHECKED BY J. BENNETT	7/96				
PROJ. ENGR. R. KINOSHITA	7/96				
REGIONAL ADM. J. OKAMOTO	7/96				
	DATE	DATE	REVISION	BY	

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER 96W035
CONTRACT NO. 5054

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Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

WETLAND MITIGATION PLANTING PLAN

L3

SHEET 223 OF 663 SHEETS

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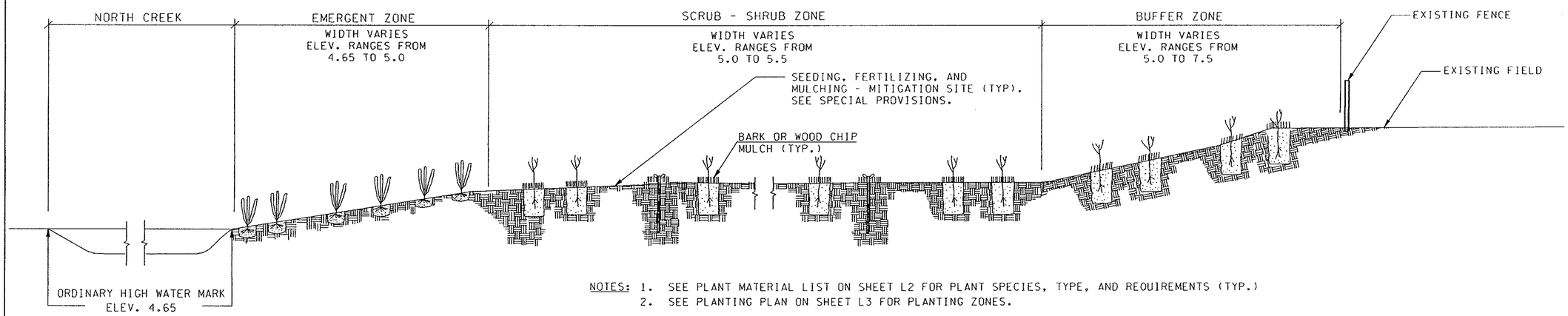
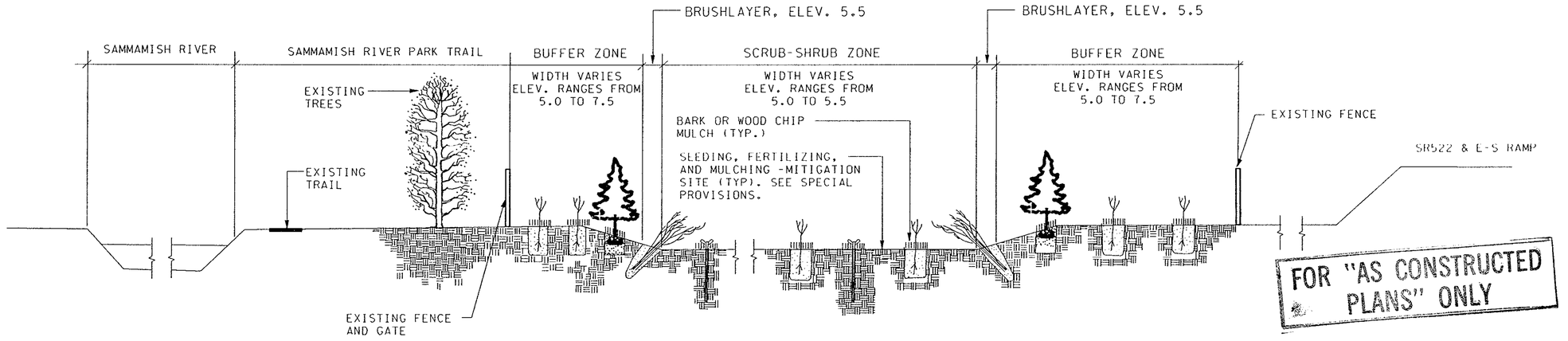
Tue Nov 12 07:24:45 1996 D412006 T:\412006\A\1FP3-1.PLT



NOTES: 1. SEE PLANT MATERIAL LIST ON SHEET L2 FOR PLANT SPECIES, TYPE, AND REQUIREMENTS (TYP.)
2. SEE PLANTING PLAN ON SHEET L3 FOR PLANTING ZONES.

1 LAYOUT OF PLANTING ZONES - TYPICAL W-E SECTION THROUGH SITE

WETLAND MITIGATION — NOT TO SCALE



NOTES:
1. SEE PLANT MATERIAL LIST ON SHEET L2 FOR PLANT SPECIES, TYPE, AND REQUIREMENTS (TYP.)
2. SEE PLANTING PLAN ON SHEET L3 FOR PLANTING ZONES.

NOTE:
ALL DIMENSIONS, ELEVATIONS, STATIONS AND CONTOUR LINES ARE SHOWN IN METERS UNLESS OTHERWISE INDICATED.

2 LAYOUT OF PLANTING ZONES - TYPICAL S-N SECTION THROUGH SITE

WETLAND MITIGATION — NOT TO SCALE

FOR "AS CONSTRUCTED PLANS" ONLY

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SALLY A. ANDERSON
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ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

PLANTING DETAILS

L4

SHEET 224 OF 663 SHEETS

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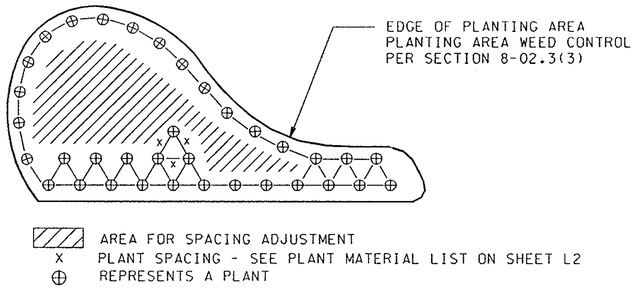
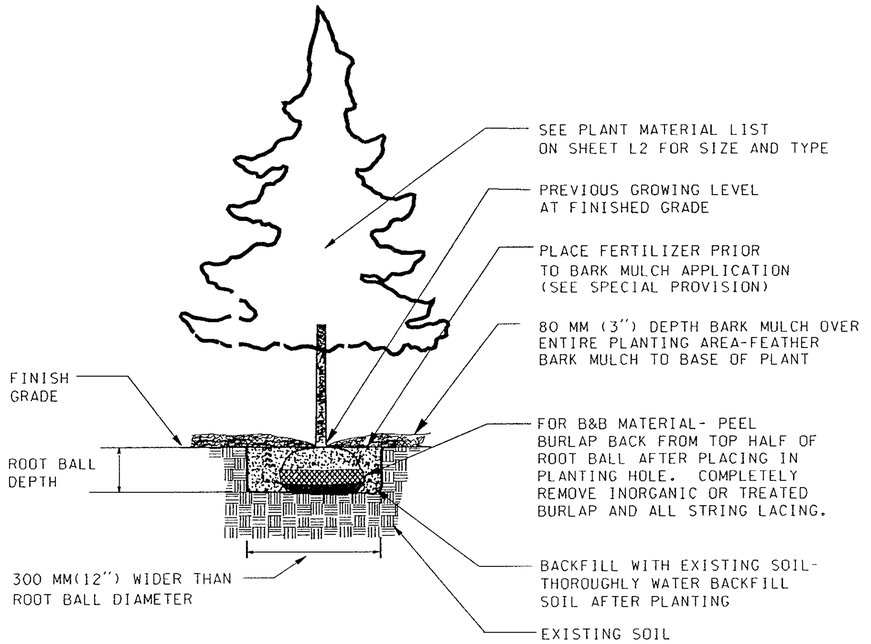


1 PLANTING AREA LAYOUT-PLAN

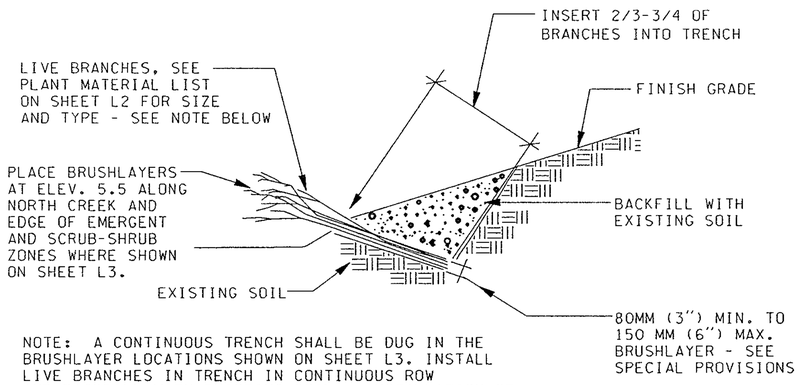
NOT TO SCALE



2 TREE PLANTING-SECTION/ELEVATION

FOR 900MM (3') HT. CONIFERS

NOT TO SCALE



NOTE: A CONTINUOUS TRENCH SHALL BE DUG IN THE BRUSHLAYER LOCATIONS SHOWN ON SHEET L3. INSTALL LIVE BRANCHES IN TRENCH IN CONTINUOUS ROW AND BACKFILL WITH EXISTING SOIL. INSTALLATION OF BRUSHLAYER SHALL NOT IMPACT UNDERCUT BANK ALONG NORTH CREEK. SEE SPECIAL PROVISIONS.

3 BRUSHLAYER INSTALLATION-SECTION/ELEVATION

NOT TO SCALE

NOTE:
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CHECKED BY J. BENNETT	7/96				96W035		
PROJ. ENGR. R. KINOSHITA	7/96				CONTRACT NO.		
REGIONAL ADM. J. OKAMOTO	7/96				505-4		
	DATE	DATE	REVISION	BY			

ENVIRONMENTAL AND ENGINEERING SERVICE CENTER

Washington State Department of Transportation

SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

PLANTING DETAILS

L5

SHEET 225 OF 663 SHEETS

Tue Nov 12 07:25:14 1996 D412006 T:\412006\A\1FP3-3.PLT
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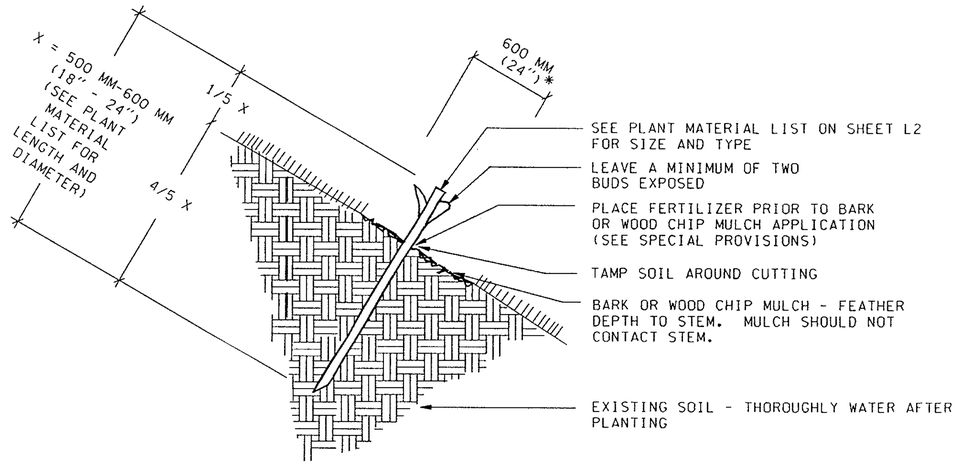
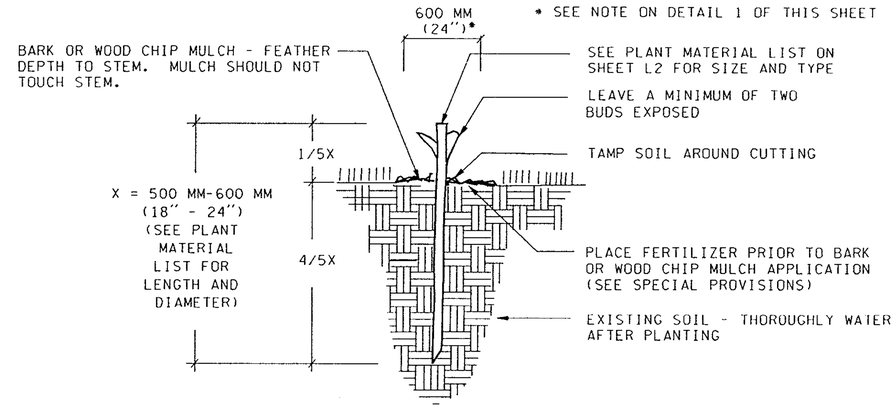


* NOTE:
BARK OR WOOD CHIP MULCH SHALL BE PLACED IN A 300MM (1') RADIUS AROUND EACH SEEDLING OR LIVE STAKE (TYPICAL). SEE SPECIAL PROVISIONS.

NOTE: AVOID STRIPPING THE BARK OR BRUISING THE STAKES DURING INSTALLATION. IN HARD GROUND USE AN IRON BAR OR STAR DRILL TO PREPARE HOLES FOR THE STAKES. DO NOT USE AXE OR SLEDGE FOR DRIVING STAKES.

1 LIVE STAKE INSTALLATION ON SLOPES-SECTION/ELEVATION

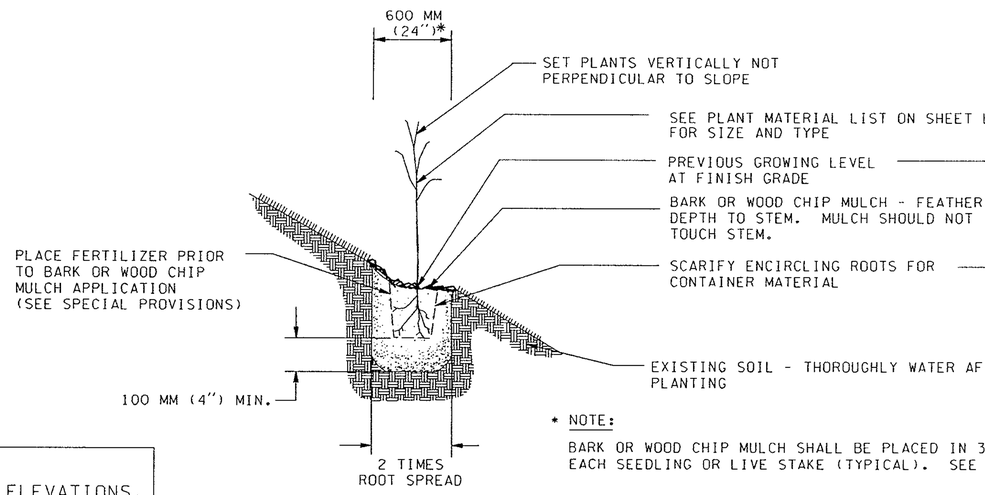
NOT TO SCALE



NOTE: AVOID STRIPPING THE BARK OR BRUISING THE STAKES DURING INSTALLATION. IN HARD GROUND USE AN IRON BAR OR STAR DRILL TO PREPARE HOLES FOR THE STAKES. DO NOT USE AXE OR SLEDGE FOR DRIVING STAKES.

2 LIVE STAKE INSTALLATION-SECTION/ELEVATION

NOT TO SCALE



* NOTE:
BARK OR WOOD CHIP MULCH SHALL BE PLACED IN 300 MM (1') RADIUS EACH SEEDLING OR LIVE STAKE (TYPICAL). SEE SPECIAL PROVISIONS.

NOTE:
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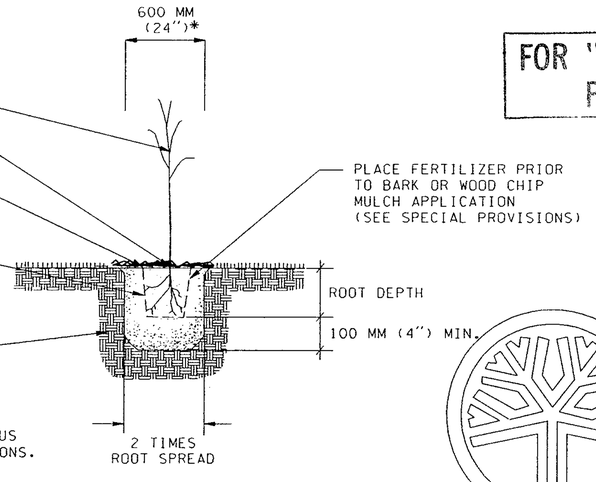
3 TREE & SHRUB PLANTING ON SLOPES - CONTAINER/BARE ROOT-SECTION/ELEVATION

NOT TO SCALE



4 TREE & SHRUB PLANTING - CONTAINER/BARE ROOT-SECTION/ELEVATION

NOT TO SCALE

FOR "AS CONSTRUCTED PLANS" ONLY

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REGIONAL ADM. J. OKAMOTO	7/96				
	DATE	DATE	REVISION	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
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SR 405
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HOV LANES - STAGE 1

PLANTING DETAILS

L6

SHEET 226 OF 663 SHEETS

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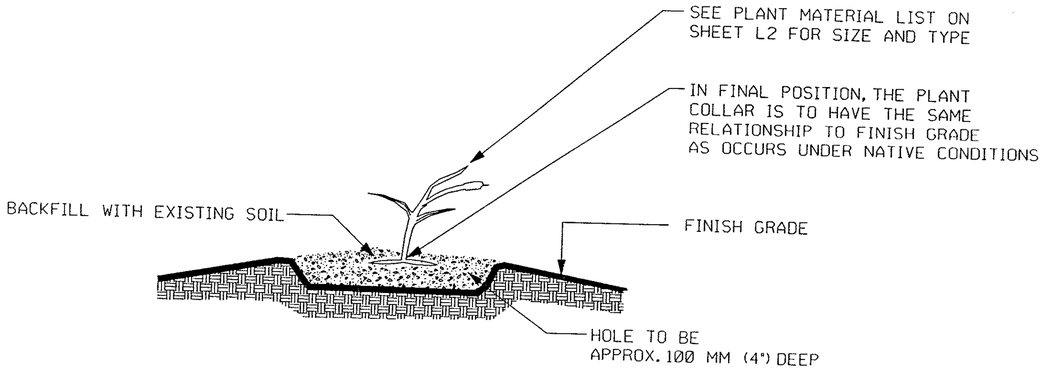
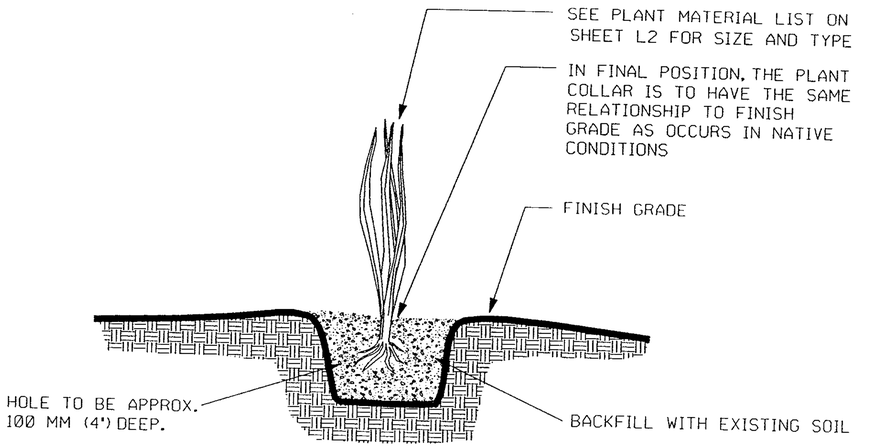
Tue Nov 12 07:25:28 1996 D412006



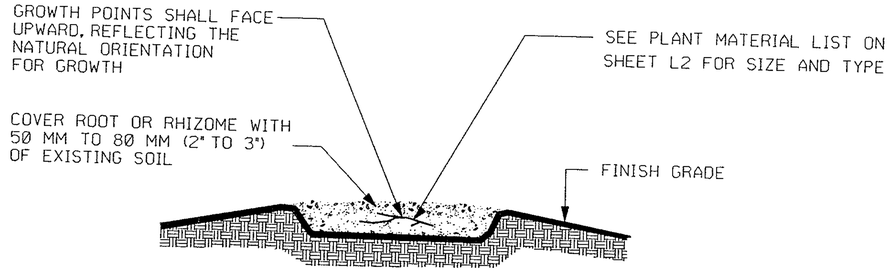
① BARE ROOT EMERGENT PLANTING-SECTION/ELEVATION

NOT TO SCALE



② RUSH, REED, OR SEDGE PLANTING-SECTION/ELEVATION

NOT TO SCALE



③ ROOT OR RHIZOME PLANTING-SECTION/ELEVATION

NOT TO SCALE

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SR 405
BOTHELL TO SWAMP CREEK I/C
HOV LANES - STAGE 1

PLANTING DETAILS

L7

SHEET 227 OF 663 SHEETS