INDEX

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PLAN REFERENCE NO.

SHEET OF SHEETS

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

PROJECT LICENSED PROFESSIONAL CERTIFICATES

Monica Harwood Nov 2, 2022 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	Chad Hancock (Nov 2, 2022 10:46 PDT) Chad Hancock Nov 2, 2022 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	Richard Zeldenrust Nov 2, 2022 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.
AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.
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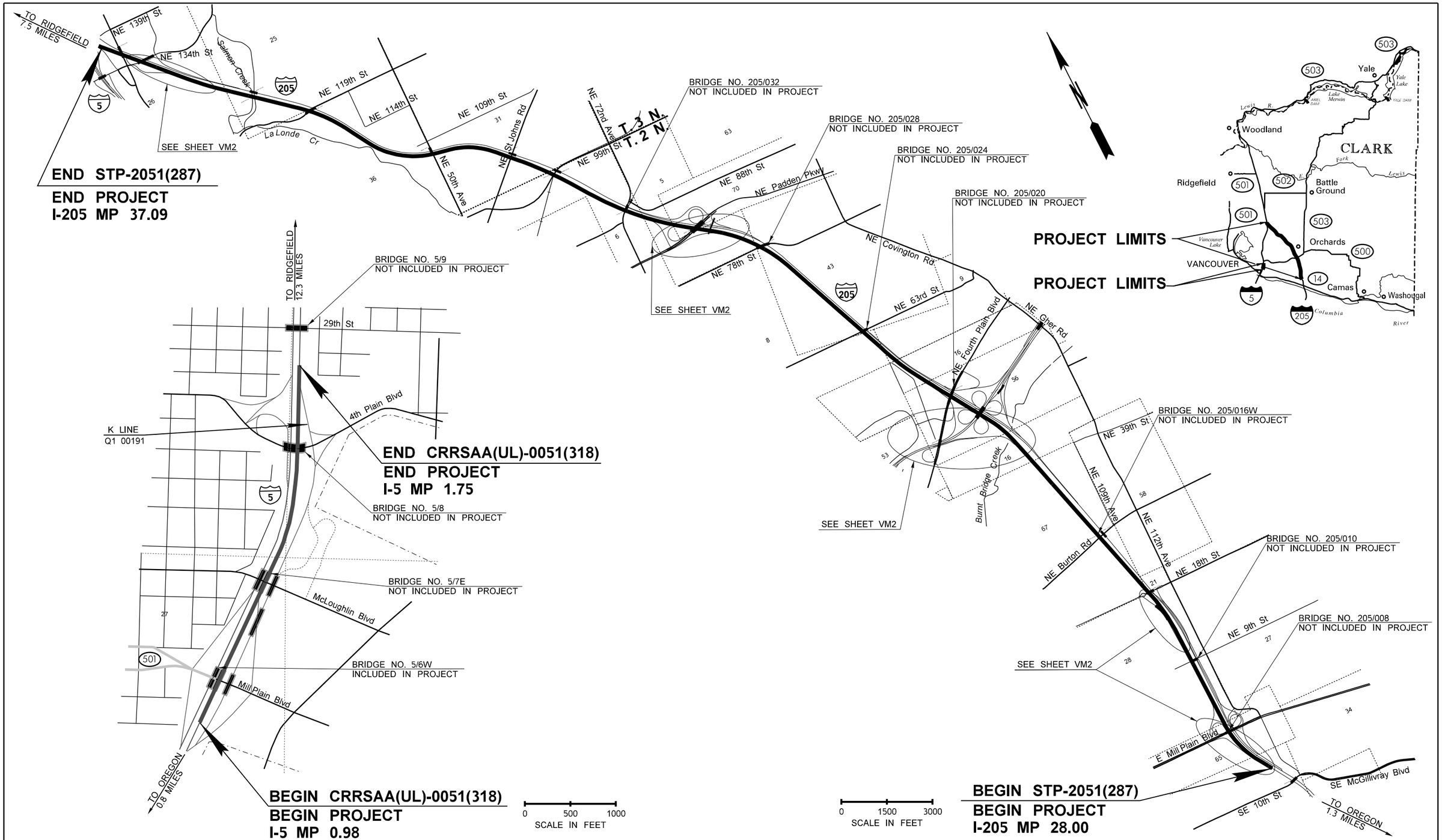
NOTES:

THIS PLAN SET WAS DEVELOPED ELECTRONICALLY UNDER THE DIRECT SUPERVISION OF THE LICENSED PROFESSIONALS THAT HAVE AFFIXED THEIR SIGNATURE TO THIS PAGE.

THIS SHEET SERVES AS THE CERTIFICATION BY THE ABOVE LICENSED PROFESSIONALS OF ALL SHEETS IN THIS PLAN SET WHERE THEIR STAMPS AND SIGNATURES APPEAR.



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DATE	11/1/2022				CONTRACT NO.		LOCATION NO.
PLOTTED BY	fuestm						
DESIGNED BY	M. FUEST						
ENTERED BY	M. FUEST						
CHECKED BY	K. WACHTER						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

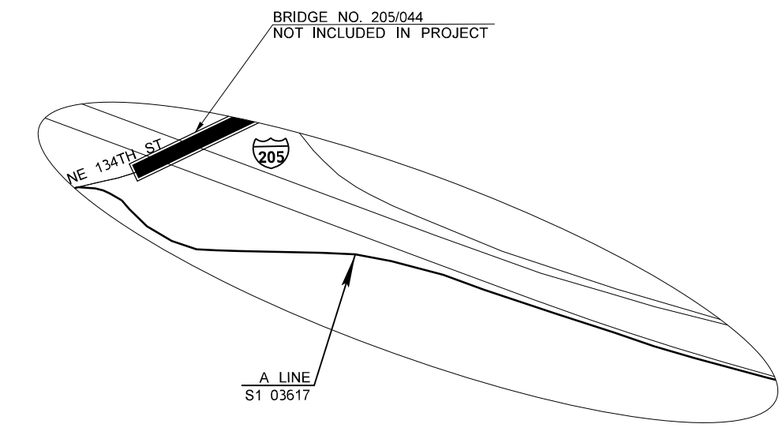
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

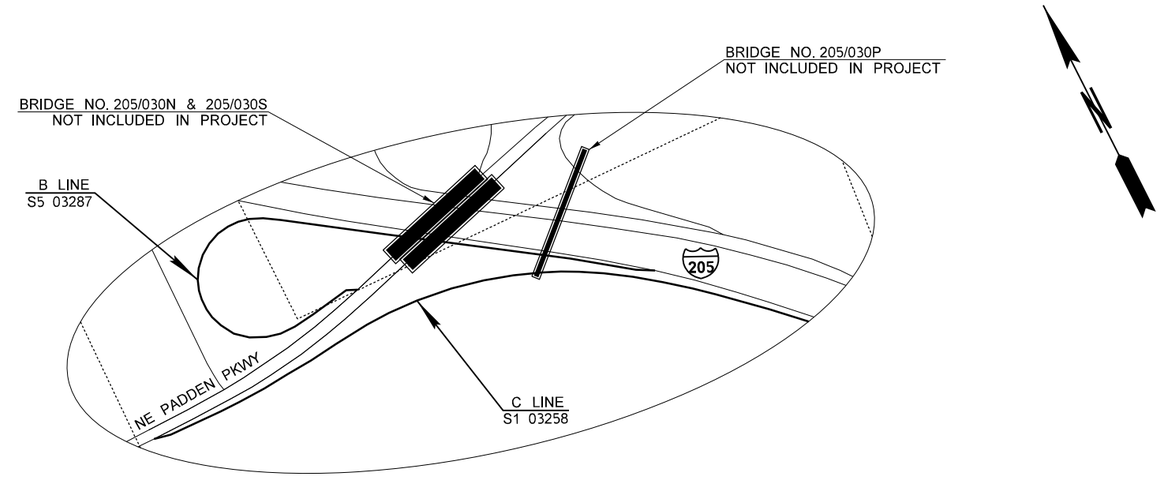
VICINITY MAP

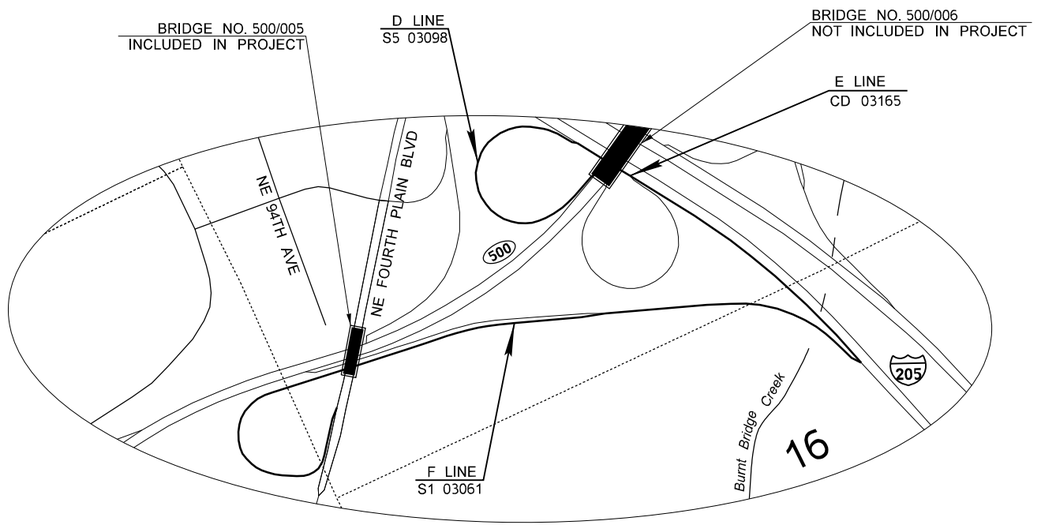
Plot 1

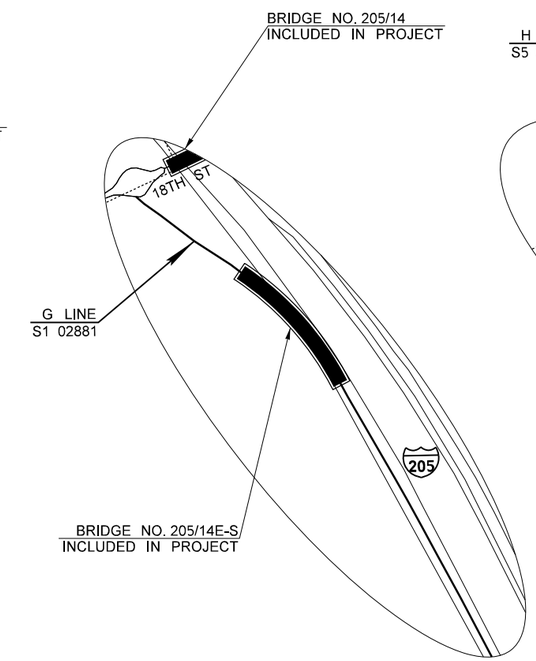
PLAN REF NO VM1

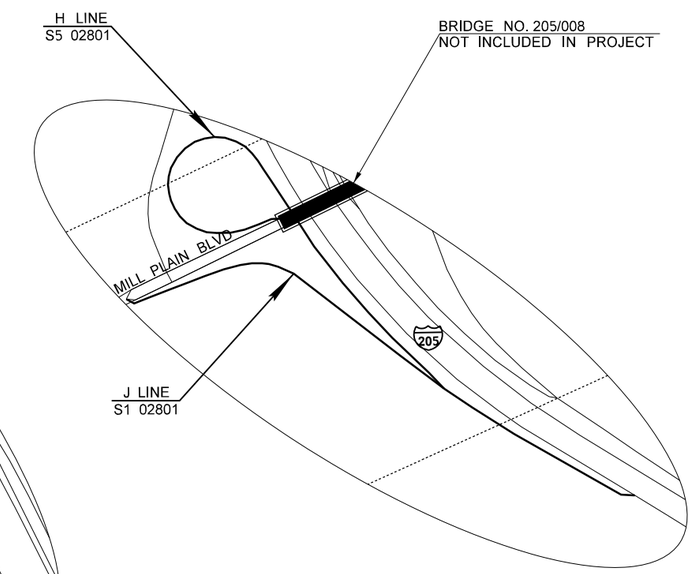
SHEET 3 OF 164 SHEETS











NOT TO SCALE

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DESIGNED BY	M. FUEST				CONTRACT NO.		LOCATION NO.
ENTERED BY	M. FUEST						
CHECKED BY	K. WACHTER						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

VICINITY MAP

Plot 4

PLAN REF NO
VM2

SHEET
4
OF
164
SHEETS

SUMMARY OF QUANTITIES

ITEM NO	TOTAL QUANTITY	SUB-TOTAL * SECTION I-07.2(1) OF STANDARD SPECS	SUB-TOTAL ** SECTION I-07.2(2) OF STANDARD SPECS	STD. ITEM NO.	UNIT	ITEM	GROUP 1 I-205 MP 28.00 TO 34.01	GROUP 2 I-205 MP 34.01 TO 37.09	GROUP 3 I-5 MP 0.98 TO 1.75	GROUP 4 I-205 MP 34.01 TO 37.09 ALT1	GROUP 5 I-205 MP 28.00 TO 34.01 ALT2	GROUP 6 I-205 MP 34.01 TO 37.09 ALT2	GROUP 7 THIRD PARTY DAMAGES
						PREPARATION							
1	LUMP SUM		LUMP SUM	0001	L.S.	MOBILIZATION	L.S.	L.S.	L.S.				
2	20600.00		20600.00	0190	L.F.	REMOVING PLASTIC LINE	3,000.00	16,200.00	1,400.00				
3	1.12		1.12	0208	HUND	REMOVING RAISED PAVEMENT MARKER	0.17	0.89	0.06				
						GRADING							
4	11.00		11.00	0310	C.Y.	ROADWAY EXCAVATION INCL. HAUL		11.00					
						STRUCTURE							
5	1500.00		1500.00	4151	LB.	ST. REINF. BAR FOR RAMP METER BARRIER		1,500.00					
6	15.00		15.00	4202	C.Y.	CONC. CLASS 4000 FOR RAMP METER BARRIER		15.00					
7	55.00		55.00	4410	L.F.	BRIDGE RAILING TYPE WIRE FABRIC FENCE		55.00					
						EROSION CONTROL AND ROADSIDE PLANTING							
8	16.00		16.00	6403	DAY	ESC LEAD	2.00	12.00	2.00				
9	30.00		30.00	6471	EACH	INLET PROTECTION		30.00					
10	2000.00		2000.00	6490	DOL	EROSION/WATER POLLUTION CONTROL	2,000.00						
11	200.00		200.00	6419	S.Y.	SEEDING AND FERTILIZING BY HAND	25.00	150.00	25.00				
12	1500.00		1500.00	6630	L.F.	HIGH VISIBILITY FENCE		1,500.00					
						TRAFFIC							
13	495.00		495.00	6757	L.F.	BEAM GUARDRAIL TYPE 31		495.00					
14	3.00		3.00	6719	EACH	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL		3.00					
15	3.00		3.00	6766	EACH	BEAM GUARDRAIL ANCHOR TYPE 10		3.00					
16	57.00		57.00	6832	EACH	FLEXIBLE GUIDE POST		51.00	6.00				
17	9300.00		9300.00	6807	L.F.	PLASTIC LINE	1,300.00	7,500.00	500.00				
18	211.00		211.00	6859	L.F.	PLASTIC STOP LINE	26.00	160.00	25.00				
19	8.00		8.00	6833	EACH	PLASTIC TRAFFIC ARROW	1.00	6.00	1.00				
20	1.12		1.12	6884	HUND	RAISED PAVEMENT MARKER TYPE 2	0.17	0.89	0.06				
21	LUMP SUM		LUMP SUM	6890	L.S.	PERMANENT SIGNING	L.S.						
22	LUMP SUM		LUMP SUM	6899	L.S.	BRIDGE MOUNTED SIGN BRACKET NO. 1		L.S.					
23	LUMP SUM		LUMP SUM	6914	L.S.	ITS CLOSED CIRCUIT TELEVISION SYSTEM	L.S.	L.S.	L.S.				
24	LUMP SUM		LUMP SUM	6914	L.S.	ITS DATA STATION SYSTEM	L.S.	L.S.	L.S.				
25	LUMP SUM		LUMP SUM	6914	L.S.	ITS TRAFFIC DATA ACCUMULATION AND RAMP METERING SYSTEM	L.S.	L.S.	L.S.				
26	LUMP SUM		LUMP SUM	6914	L.S.	ITS VARIABLE MESSAGE SIGN (VMS) SYSTEM		L.S.					
27	LUMP SUM		LUMP SUM	6971	L.S.	PROJECT TEMPORARY TRAFFIC CONTROL	L.S.	L.S.	L.S.				
28	785.00		785.00	6822	L.F.	PLASTIC CROSSHATCH MARKING	105.00	610.00	70.00				
29	15000.00		15000.00	6818	L.F.	PLASTIC WIDE LINE	2,000.00	12,000.00	1,000.00				
						OTHER ITEMS							
30	10000.00		10000.00	7715	DOL	FORCE ACCOUNT MISC. CONDUIT, WIRES AND JUNCTION BOXES	2,500.00	6,000.00	1,500.00				
31	25000.00		25000.00	7715	DOL	FORCE ACCOUNT WORK ZONE SAFETY CONTINGENCY	8,400.00	8,400.00	8,200.00				
32	3000.00		3000.00	7480	DOL	ROADSIDE CLEANUP	1,000.00	1,000.00	1,000.00				
33	5.00		5.00	7725	DOL	REIMBURSEMENT FOR THIRD PARTY DAMAGE							5.00
34	-1.00		-1.00	7728	DOL	MINOR CHANGE	-1.00						
35	-1.00		-1.00	7732	DOL	AGGREGATE COMPLIANCE PRICE ADJUSTMENT		-1.00					
36	LUMP SUM		LUMP SUM	7736	L.S.	SPCC PLAN	L.S.	L.S.	L.S.				
37	5.00		5.00	7569	EACH	NO TRESPASSING SIGN	1.00	4.00					

GROUP LEGEND

GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
1	205	060710	**	420523Q,STATE
2	205	060702	**	420523Q,STATE
3	005	060210	**	400526Q,STATE
4	205	060702	**	420523Q,STATE
5	205	060710	**	420523Q,STATE
6	205	060702	**	420523Q,STATE
7	205	060702	**	STATE

DATE	REVISION	BY

REGION	STATE	FEDERAL AID PROJECT. NO.
10	WA	CRRSAA-0051(318) STBG-2051(287)

JOB NUMBER 22X332/7

CONTRACT NO 000000

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES

ITEM NO	TOTAL QUANTITY	SUB-TOTAL * SECTION I-07.2(1) OF STANDARD SPECS	SUB-TOTAL ** SECTION I-07.2(2) OF STANDARD SPECS	STD. ITEM NO.	UNIT	ITEM	GROUP 1 I-205 MP 28.00 TO 34.01	GROUP 2 I-205 MP 34.01 TO 37.09	GROUP 3 I-5 MP 0.98 TO 1.75	GROUP 4 I-205 MP 34.01 TO 37.09 ALT1	GROUP 5 I-205 MP 28.00 TO 34.01 ALT2	GROUP 6 I-205 MP 34.01 TO 37.09 ALT2	GROUP 7 THIRD PARTY DAMAGES
38	LUMP SUM		LUMP SUM	7570	L.S.	HEALTH AND SAFETY PLAN	L.S.	L.S.					
39	1000.00		1000.00	7571	DOL	FA-SITE CLEANUP OF BIO. AND PHYSICAL HAZARDS	150.00	850.00					
						ALTERNATE A1							
40	LUMP SUM		LUMP SUM		L.S.	INTERMEDIATE DETECTION - ALTERNATIVE 1				L.S.			
						ALTERNATE A2							
41	LUMP SUM		LUMP SUM		L.S.	MERGE DETECTION - ALTERNATIVE 2					L.S.	L.S.	

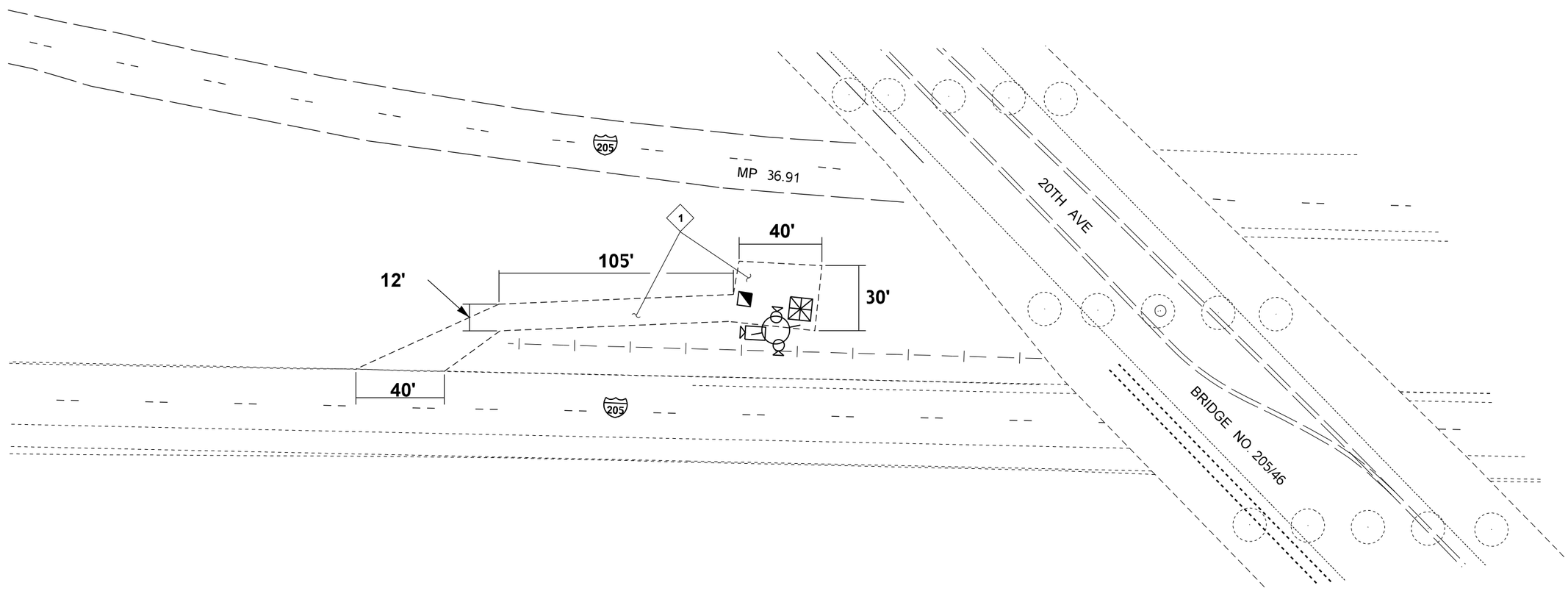
GROUP LEGEND

GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
1	205	060710	**	420523Q,STATE
2	205	060702	**	420523Q,STATE
3	005	060210	**	400526Q,STATE
4	205	060702	**	420523Q,STATE

◇	SITE PREP NOTES:
1	INSTALL GRAVEL MAINTENANCE ACCESS PATH AND PAD. PATH AND PAD SHALL CONSIST OF GEOTEXTILE FOR SEPARATION, 2' OF QUARRY SPALLS, AND 1' OF C.S.B.C. SEE STD. SPEC. 9-33.

LEGEND

EXISTING	NEW	
	- - - - -	GRAVEL LIMITS
-|- -|-		GUARDRAIL



GENERAL NOTES:

1. FOR ELECTRICAL/ITS LEGEND SEE CN1
2. SEE ITS2 FOR ITS DETAILS
3. ALL MAINTENANCE PATH AND PAD WORK SHALL BE INCIDENTAL TO THE 'ITS DATA STATION SYSTEM' BID ITEM
4. 'NO TRESPASSING' SIGNS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER

0 25 50
SCALE IN FEET

134TH ST SYSTEM

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SP.dgn			
TIME	9:12:16 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA TO HARWOOD DUNCAN · STATE OF WASHINGTON · 39399 · REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

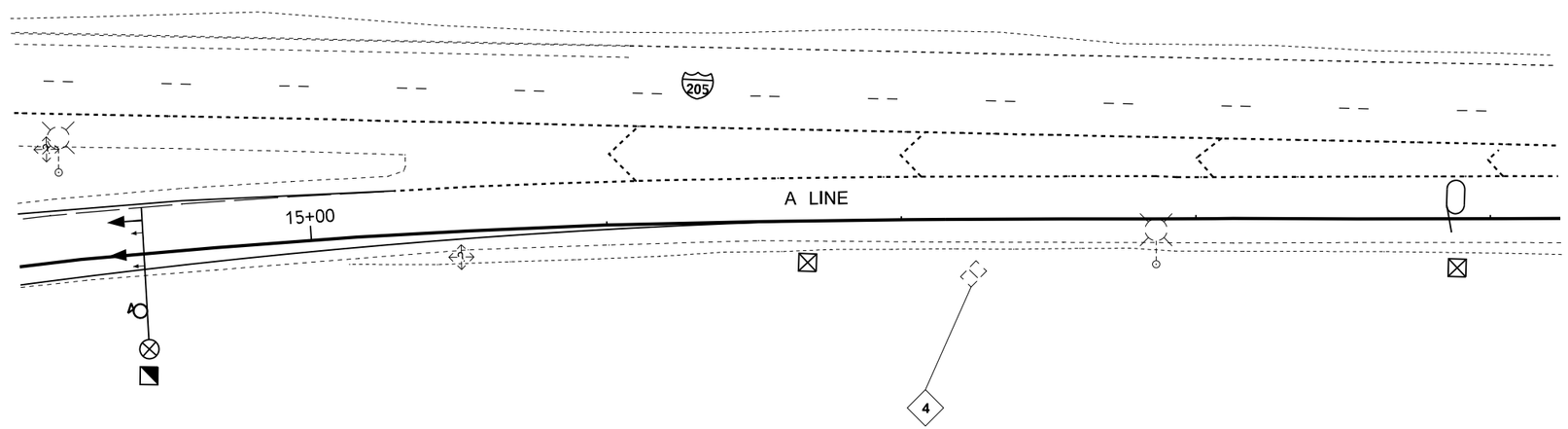
Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN RAMP METERS

SITE PREPARATION PLAN

Plot 1
PLAN REF NO
SP1
SHEET 7 OF 164 SHEETS

◇	SITE PREP NOTES:
4	INSTALL INLET PROTECTION PER STD. PLAN I-40.20



LEGEND

EXISTING

GRATE INLET

GENERAL NOTES:

1. FOR ELECTRICAL/ITS LEGEND SEE CN1
2. SEE ITS4 FOR ITS DETAILS
3. 'NO TRESPASSING' SIGNS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER

134TH ST SYSTEM

S1 03617

0 25 50

SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SP.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287) CRRSAA(UL)-0051(318)
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DESIGNED BY	M. FUEST				CONTRACT NO.		LOCATION NO.
ENTERED BY	M. FUEST						
CHECKED BY	K. WACHTER						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA JO HARWOOD DUNCAN, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SITE PREPARATION PLAN

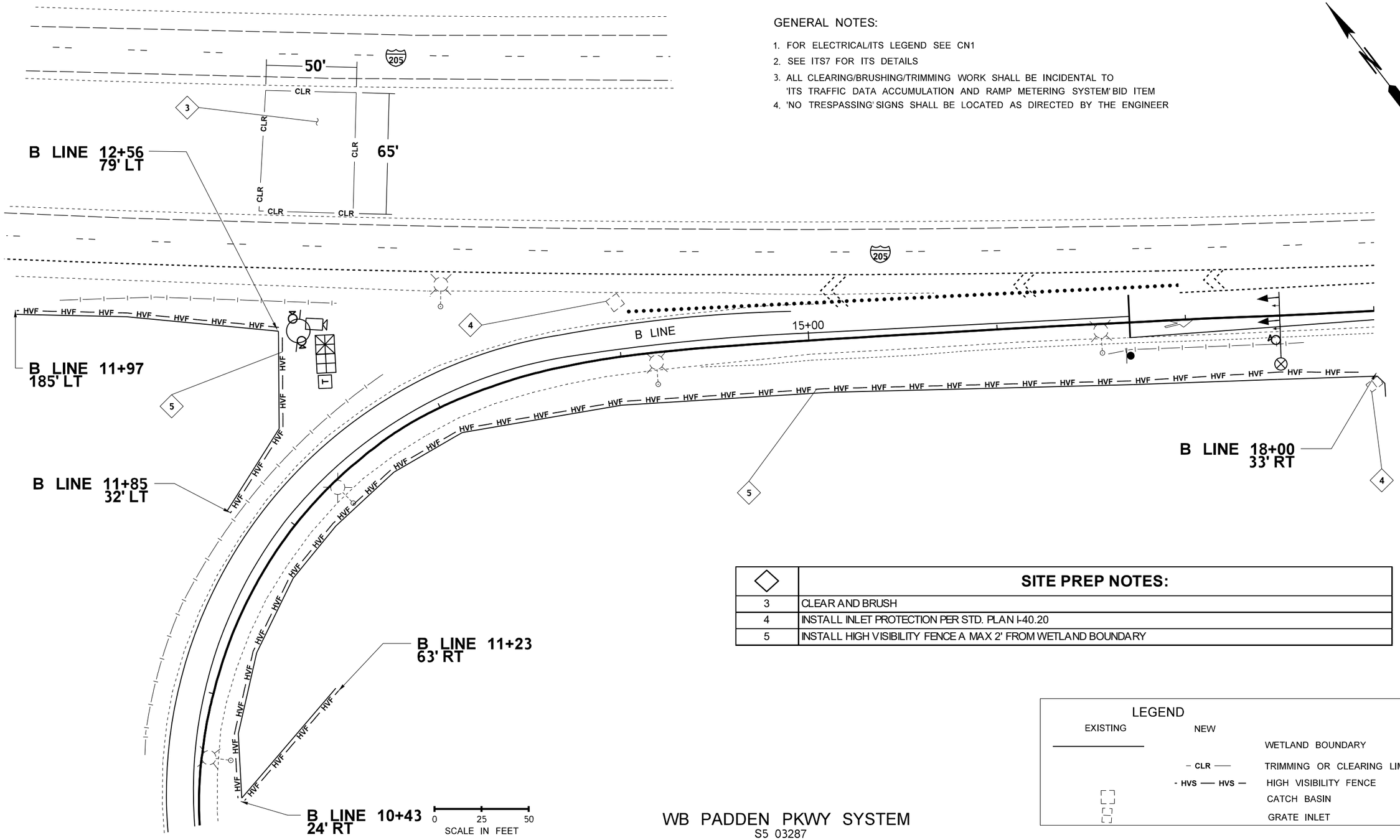
Plot 11

PLAN REF NO SP2

SHEET 8 OF 164 SHEETS

GENERAL NOTES:

1. FOR ELECTRICAL/ITS LEGEND SEE CN1
2. SEE ITS7 FOR ITS DETAILS
3. ALL CLEARING/BRUSHING/TRIMMING WORK SHALL BE INCIDENTAL TO 'ITS TRAFFIC DATA ACCUMULATION AND RAMP METERING SYSTEM' BID ITEM
4. 'NO TRESPASSING' SIGNS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER



◇	SITE PREP NOTES:
3	CLEAR AND BRUSH
4	INSTALL INLET PROTECTION PER STD. PLAN I-40.20
5	INSTALL HIGH VISIBILITY FENCE A MAX 2' FROM WETLAND BOUNDARY

LEGEND

EXISTING	NEW	
		WETLAND BOUNDARY
	– CLR —	TRIMMING OR CLEARING LIMITS
	- HVS — HVS —	HIGH VISIBILITY FENCE
		CATCH BASIN
		GRATE INLET

WB PADDEN PKWY SYSTEM
S5 03287

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SP.dgn			
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DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

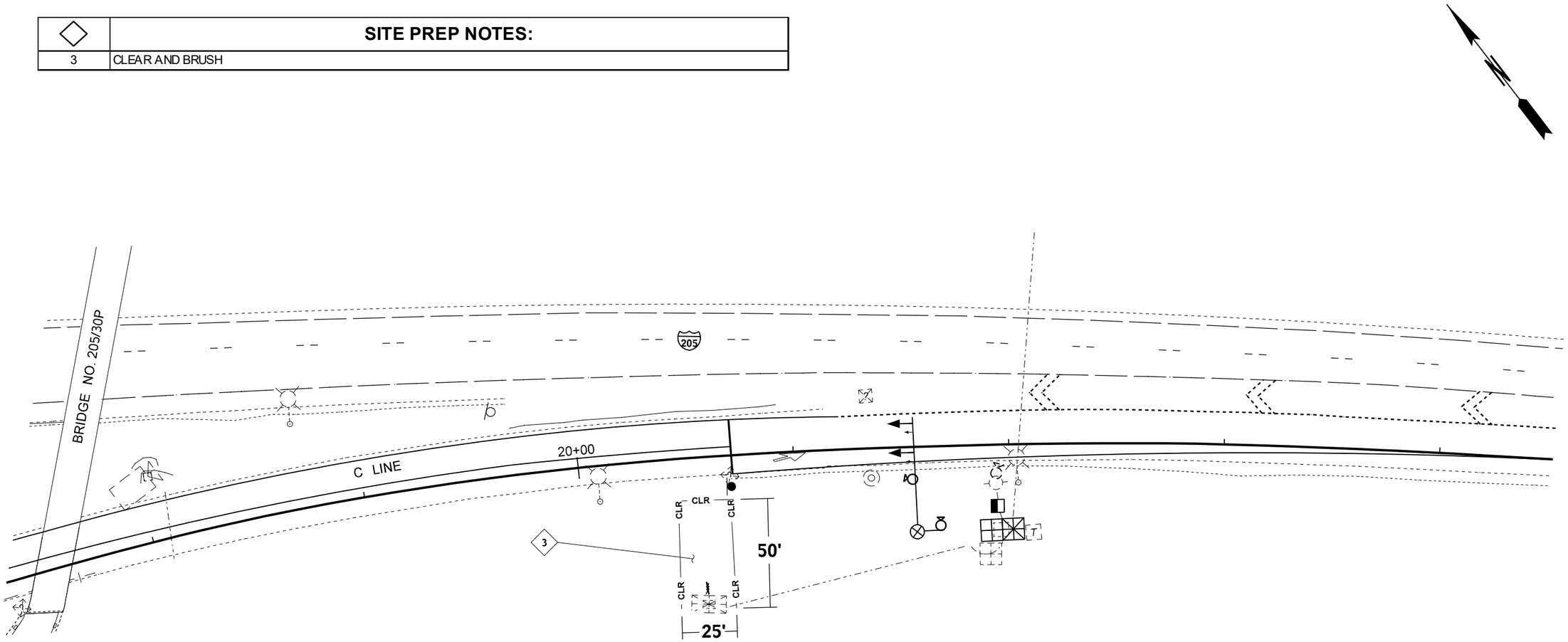
Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SITE PREPARATION PLAN

Plot 8
PLAN REF NO
SP3
SHEET 9 OF 164 SHEETS

◇	SITE PREP NOTES:
3	CLEAR AND BRUSH



GENERAL NOTES:

1. FOR ELECTRICAL/ITS LEGEND SEE CN1
2. SEE ITS10 FOR ITS DETAILS
3. ALL CLEARING/BRUSHING/TRIMMING WORK SHALL BE INCIDENTAL TO 'ITS TRAFFIC DATA ACCUMULATION AND RAMP METERING SYSTEM' BID ITEM
4. 'NO TRESPASSING' SIGNS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER

EB PADDEN PKWY SYSTEM
S1 03258

0 25 50
SCALE IN FEET

LEGEND

NEW

– CLR —— TRIMMING OR CLEARING LIMITS

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SP.dgn			
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DATE	11/1/2022			
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DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

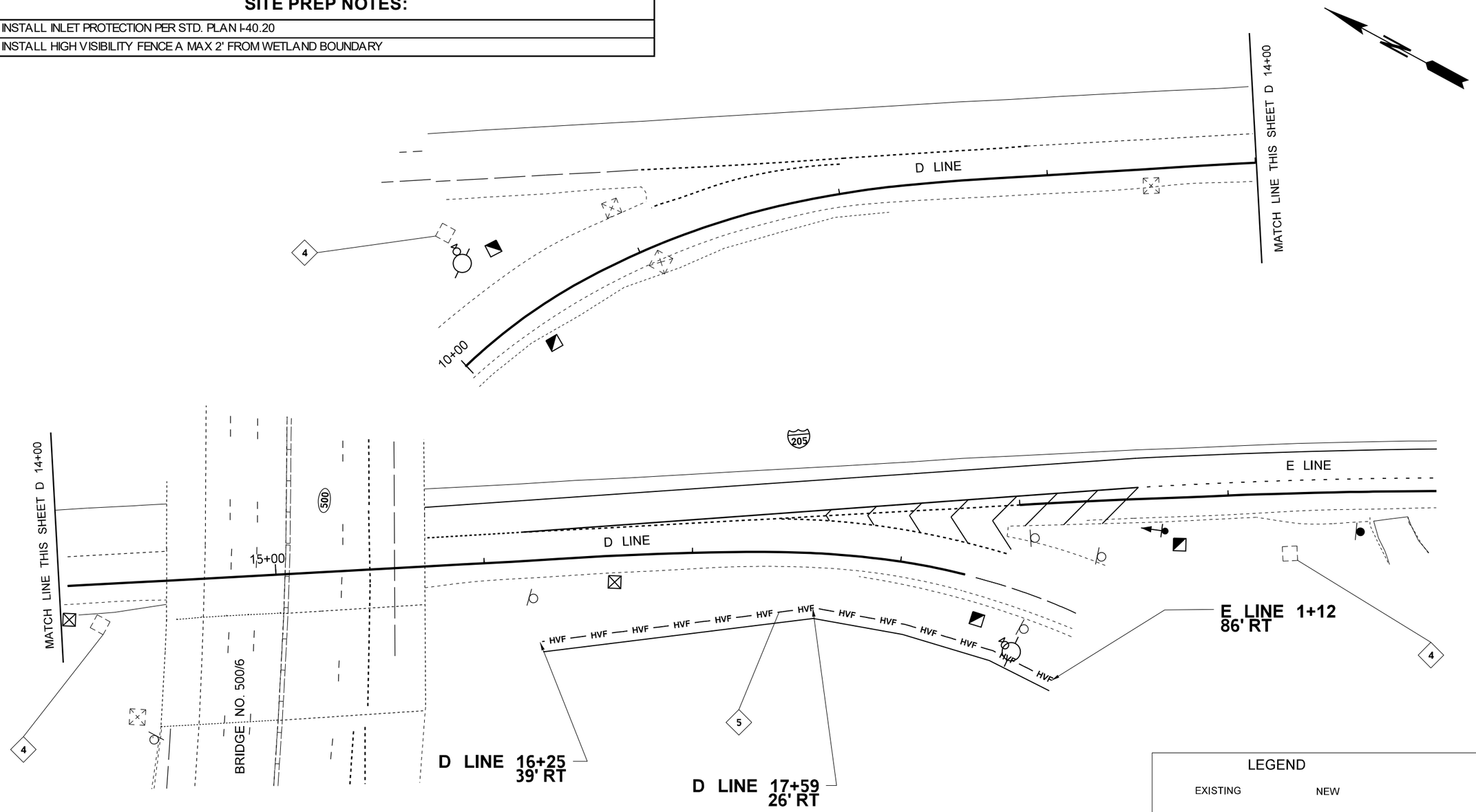
Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SITE PREPARATION PLAN

Plot 10
PLAN REF NO SP4
SHEET 10 OF 164 SHEETS

◇	SITE PREP NOTES:
4	INSTALL INLET PROTECTION PER STD. PLAN I-40.20
5	INSTALL HIGH VISIBILITY FENCE A MAX 2' FROM WETLAND BOUNDARY



GENERAL NOTES:

1. FOR ELECTRICAL/ITS LEGEND SEE CN1
2. SEE ITS13-14 FOR ITS DETAILS
3. 'NO TRESPASSING' SIGNS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER

LEGEND

EXISTING	NEW	
		WETLAND BOUNDARY
		CATCH BASIN
	- HVS — HVS —	HIGH VISIBILITY FENCE

0 25 50
SCALE IN FEET

WB SR 500 SYSTEM
S5 03098/CD 03165

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SP.dgn						
TIME	9:12:24 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
DATE	11/1/2022						
PLOTTED BY	fuestm				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST						
ENTERED BY	M. FUEST						
CHECKED BY	K. WACHTER				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA D. HARWOOD, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

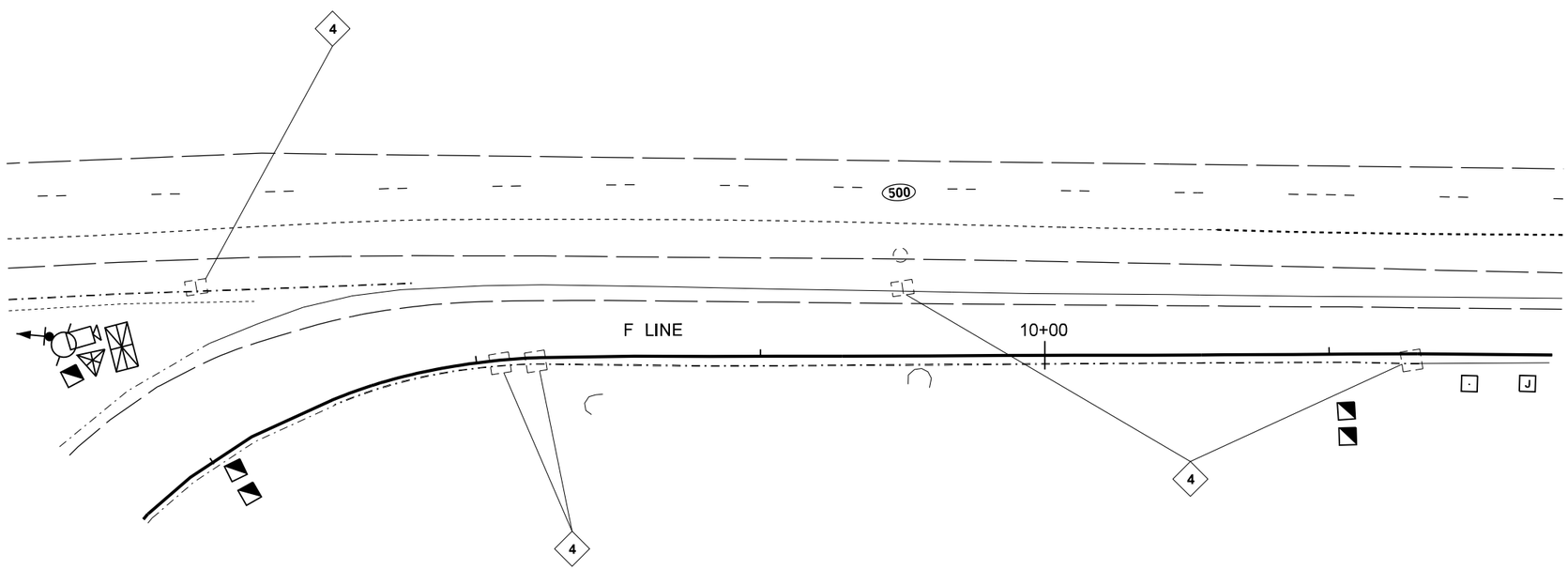
Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SITE PREPARATION PLAN

Plot 7
PLAN REF NO SP5
SHEET 11 OF 164 SHEETS

◇	SITE PREP NOTES:
4	INSTALL INLET PROTECTION PER STD. PLAN I-40.20



GENERAL NOTES:

1. FOR ELECTRICAL/ITS LEGEND SEE CN1
2. SEE ITS15 FOR ITS DETAILS
3. 'NO TRESPASSING' SIGNS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER

SR 500 SYSTEM
S1 03061

0 25 50
SCALE IN FEET

LEGEND

EXISTING

CATCH BASIN

GRATE INLET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SP.dgn			
TIME	9:12:32 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA TO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED
PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

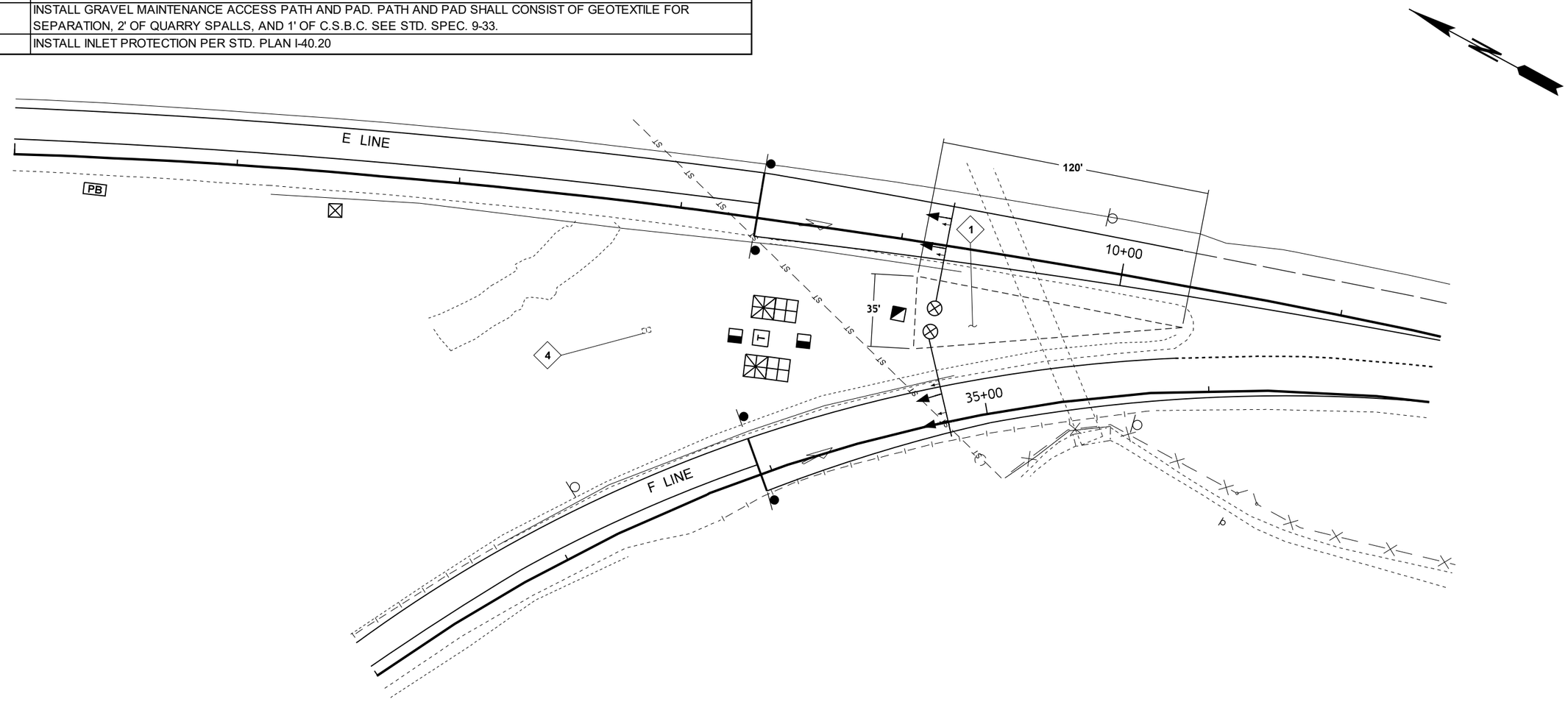
Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SITE PREPARATION PLAN

Plot 12
PLAN REF NO
SP6
SHEET 12 OF 164 SHEETS

◇	SITE PREP NOTES:
1	INSTALL GRAVEL MAINTENANCE ACCESS PATH AND PAD. PATH AND PAD SHALL CONSIST OF GEOTEXTILE FOR SEPARATION, 2' OF QUARRY SPALLS, AND 1' OF C.S.B.C. SEE STD. SPEC. 9-33.
4	INSTALL INLET PROTECTION PER STD. PLAN I-40.20



GENERAL NOTES:

1. ELECTRICAL/ITS ASSETS SHOWN FOR REFERENCE ONLY
2. SEE ITS18 FOR ITS DETAILS
3. 'NO TRESPASSING' SIGNS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER
4. CONCRETE BARRIER TO BE INSTALLED BY WSDOT
5. ALL MAINTENANCE PATH AND PAD WORK SHALL BE INCIDENTAL TO THE 'ITS TRAFFIC DATA ACCUMULATION AND RAMP METERING SYSTEM' BID ITEM

LEGEND

EXISTING NEW

- - - - - GRAVEL LIMITS

SR 500 SYSTEM
CD 03165/S1 03061

0 25 50
SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SP.dgn			
TIME	9:12:23 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

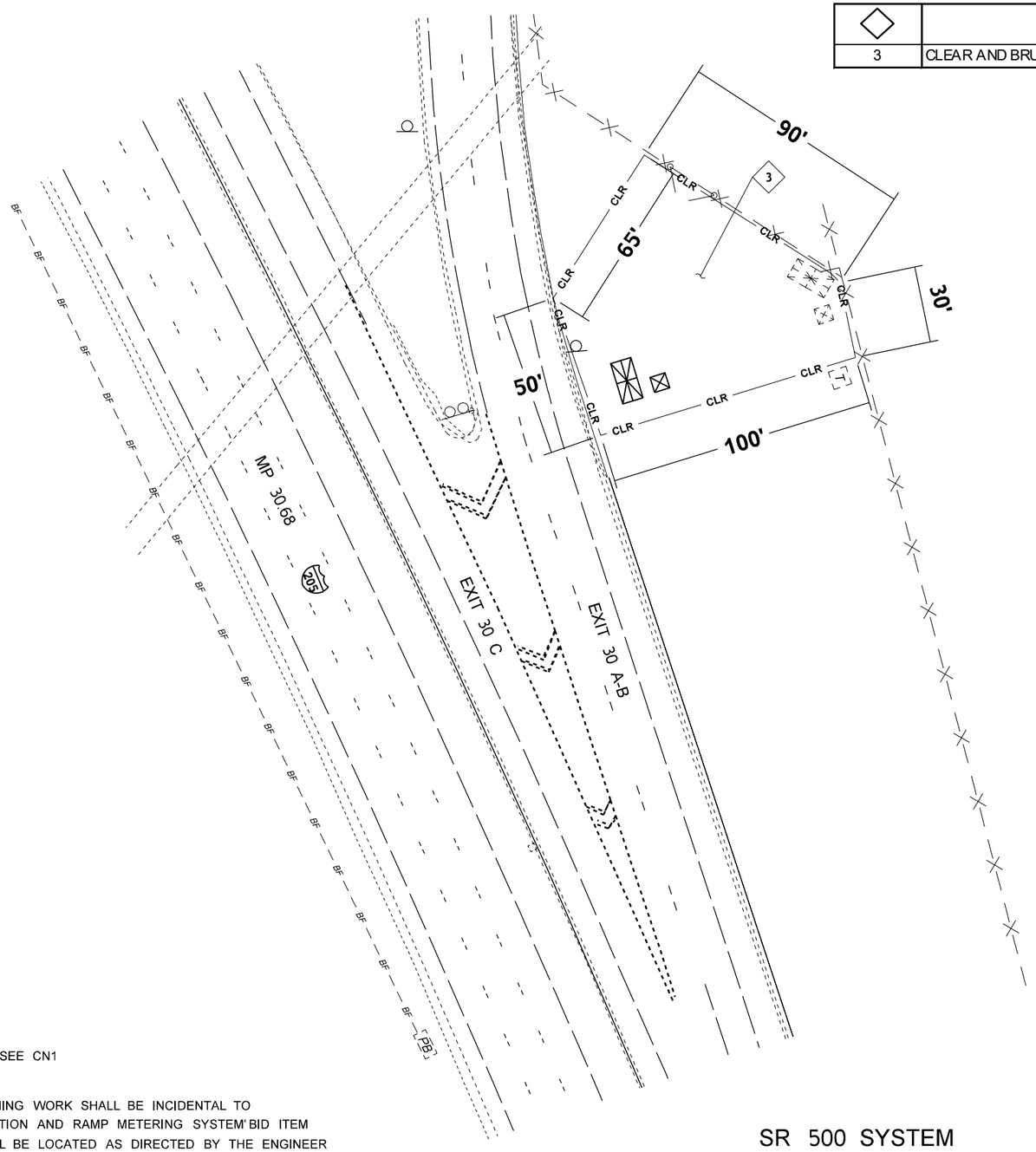
Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SITE PREPARATION PLAN

Plot 6
PLAN REF NO
SP7
SHEET 13 OF 164 SHEETS

◇	SITE PREP NOTES:
3	CLEAR AND BRUSH



GENERAL NOTES:

1. FOR ELECTRICAL/ITS LEGEND SEE CN1
2. SEE ITS21 FOR ITS DETAILS
3. ALL CLEARING/BRUSHING/TRIMMING WORK SHALL BE INCIDENTAL TO 'ITS TRAFFIC DATA ACCUMULATION AND RAMP METERING SYSTEM' BID ITEM
4. 'NO TRESPASSING' SIGNS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER

SR 500 SYSTEM

0 25 50
SCALE IN FEET

LEGEND

NEW

– CLR —— TRIMMING OR CLEARING LIMITS

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SP.dgn			
TIME	9:12:19 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

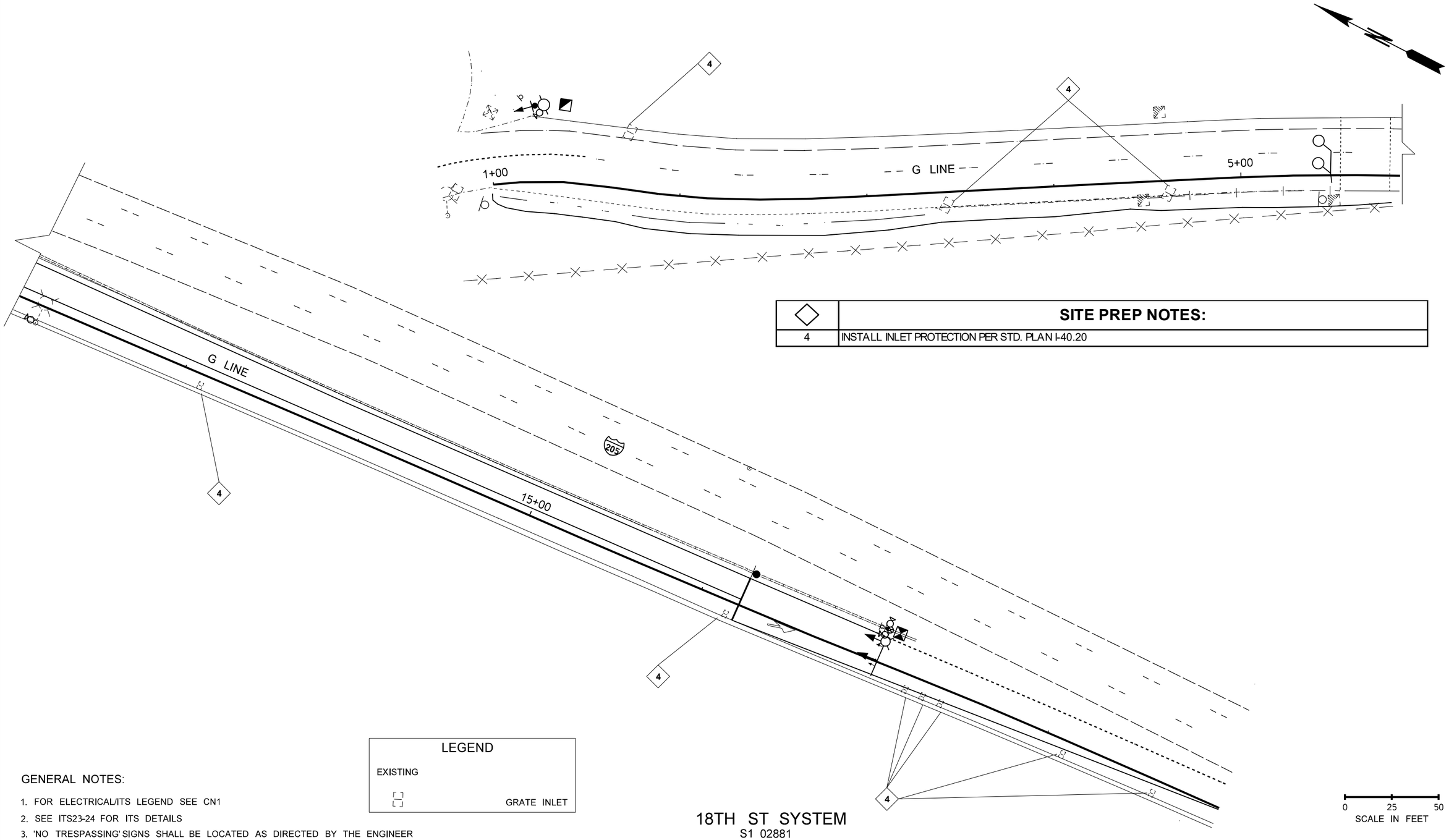
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SITE PREPARATION PLAN

Plot 3
PLAN REF NO
SP8
SHEET 14 OF 164 SHEETS



◇	SITE PREP NOTES:
4	INSTALL INLET PROTECTION PER STD. PLAN I-40.20

LEGEND

EXISTING

GRATE INLET

GENERAL NOTES:

1. FOR ELECTRICAL/ITS LEGEND SEE CN1
2. SEE ITS23-24 FOR ITS DETAILS
3. 'NO TRESPASSING' SIGNS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER

18TH ST SYSTEM

S1 02881

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SP.dgn						
TIME	9:12:20 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
DATE	11/1/2022						
PLOTTED BY	fuestm				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST						
ENTERED BY	M. FUEST						
CHECKED BY	K. WACHTER				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA JO HARWOOD DUNCAN, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

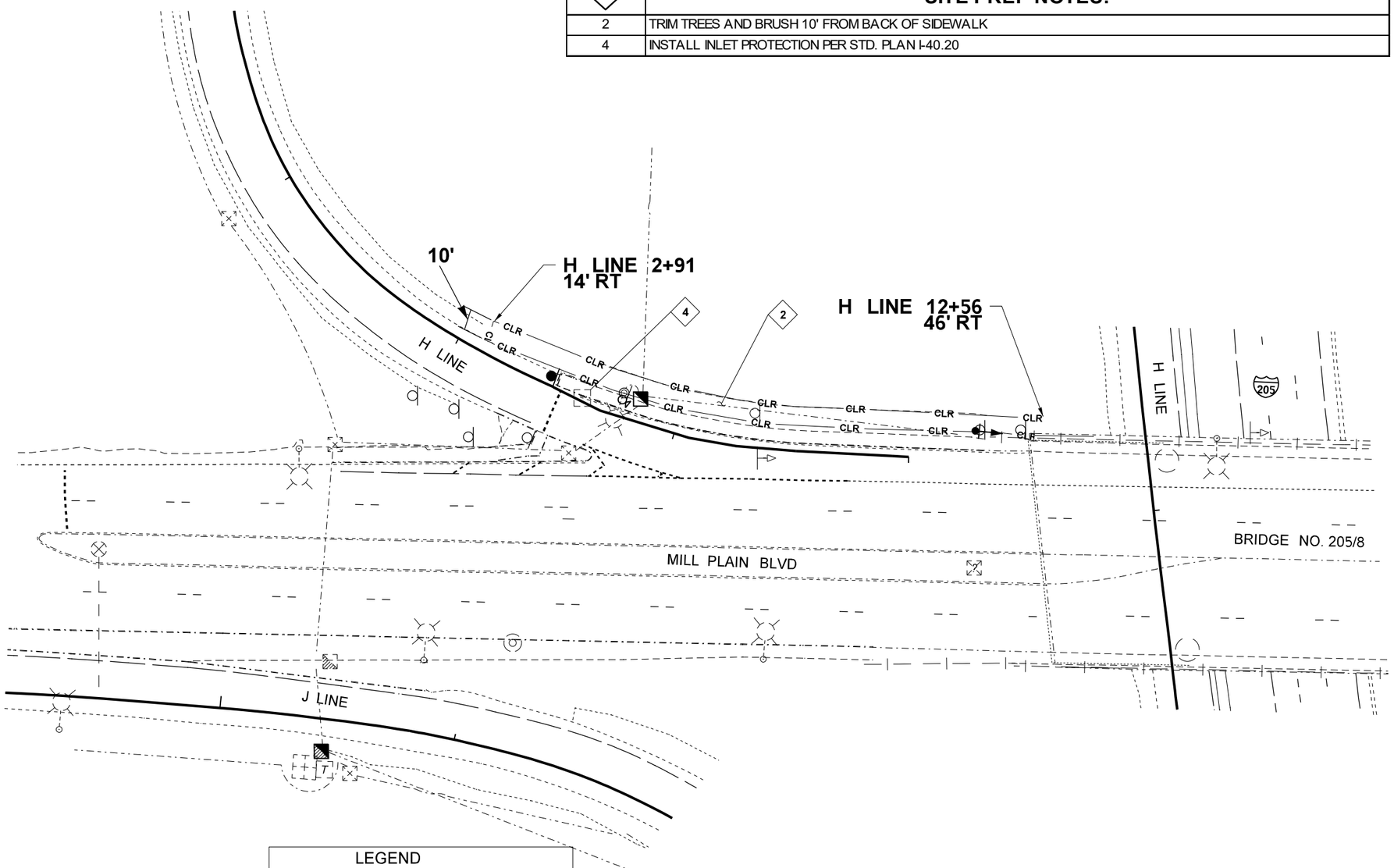
SITE PREPARATION PLAN

Plot 4

PLAN REF NO SP9

SHEET 15 OF 164 SHEETS

◇	SITE PREP NOTES:
2	TRIM TREES AND BRUSH 10' FROM BACK OF SIDEWALK
4	INSTALL INLET PROTECTION PER STD. PLAN I-40.20



LEGEND

NEW

– CLR —— TRIMMING OR CLEARING LIMITS

GENERAL NOTES:

1. FOR ELECTRICAL/ITS LEGEND SEE CN1
2. SEE ITS26 FOR ITS DETAILS
3. ALL CLEARING/BRUSHING/TRIMMING WORK SHALL BE INCIDENTAL TO 'ITS TRAFFIC DATA ACCUMULATION AND RAMP METERING SYSTEM' BID ITEM
4. 'NO TRESPASSING' SIGNS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER

0 25 50
SCALE IN FEET

MILL PLAIN BLVD SYSTEM

S5 02801/S1 02801

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SP.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
TIME	9:12:17 AM						
DATE	11/1/2022						
PLOTTED BY	fuestm				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST						
ENTERED BY	M. FUEST						
CHECKED BY	K. WACHTER				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA D. HARWOOD-DIAZ
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

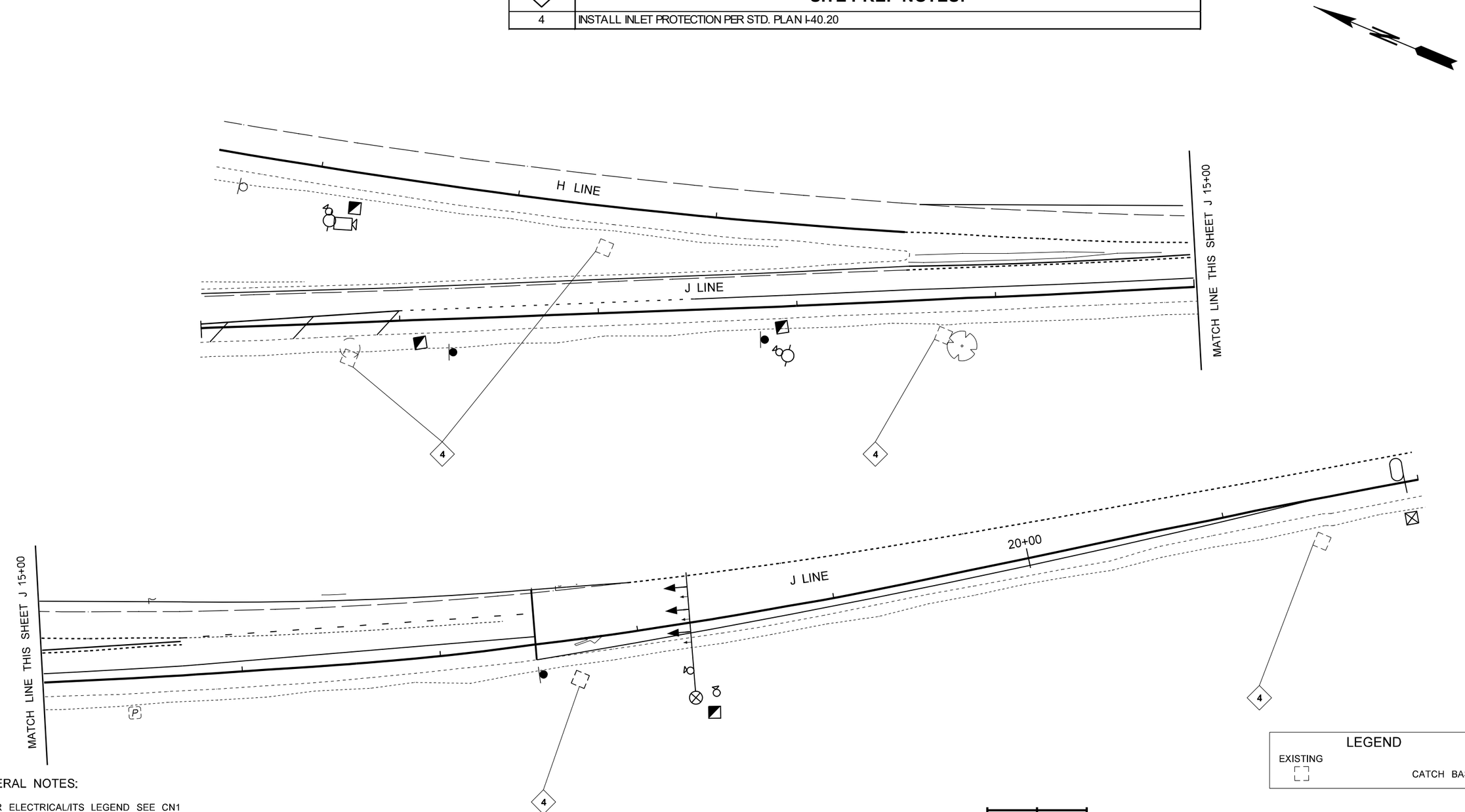
Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SITE PREPARATION PLAN

Plot 2
PLAN REF NO SP10
SHEET 16 OF 164 SHEETS

◇	SITE PREP NOTES:
4	INSTALL INLET PROTECTION PER STD. PLAN I-40.20



LEGEND

EXISTING

CATCH BASIN

GENERAL NOTES:

1. FOR ELECTRICAL/ITS LEGEND SEE CN1
2. SEE ITS27 FOR ITS DETAILS
3. 'NO TRESPASSING' SIGNS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER

MILL PLAIN BLVD SYSTEM

S5 02801/S1 02801

0 25 50

SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SP.dgn			
TIME	9:12:33 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

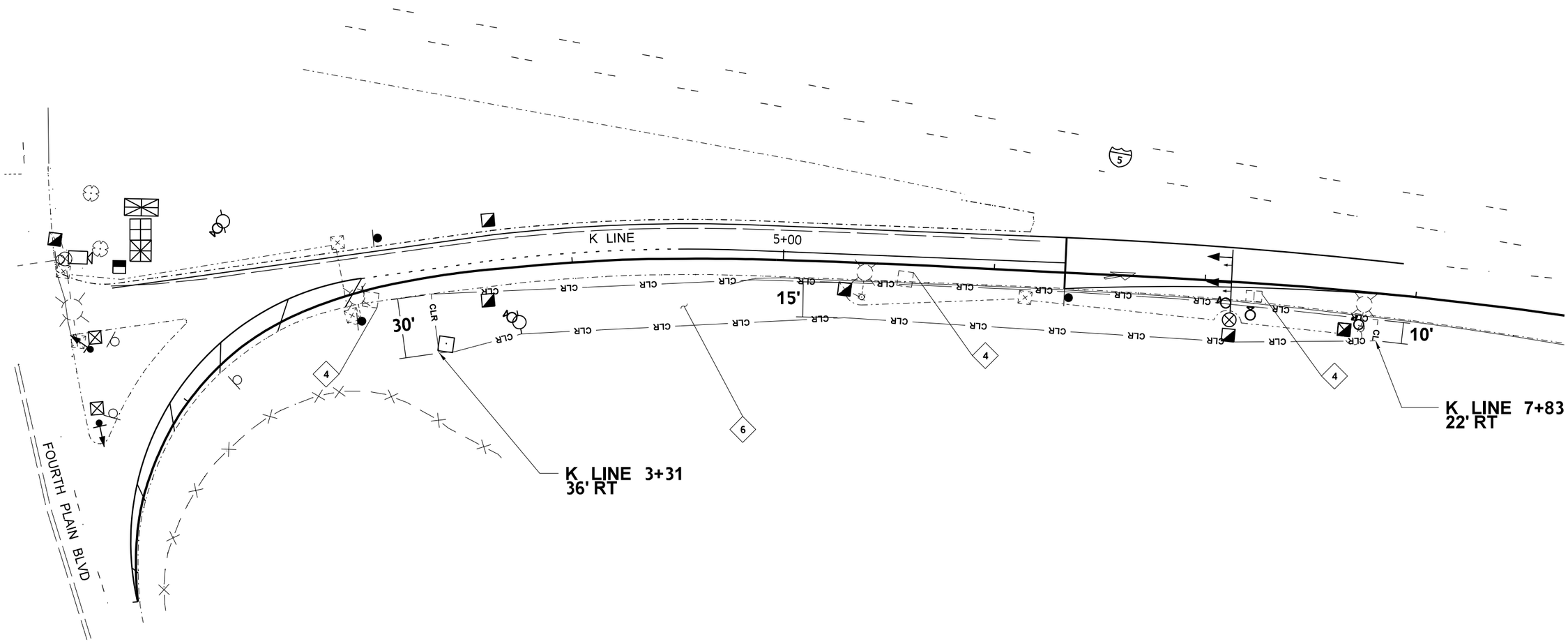
SITE PREPARATION PLAN

Plot 13

PLAN REF NO SP11

SHEET 17 OF 164 SHEETS

◇	SITE PREP NOTES:
4	INSTALL INLET PROTECTION PER STD. PLAN I-40.20
6	CLEAR AREA AND PRESERVE EXISTING BUSHES. ANY BUSH TO BE REMOVED FOR FOUNDATIONS AND/OR CONDUIT SHALL BE APPROVED BY THE ENGINEER



GENERAL NOTES:

1. FOR ELECTRICAL/ITS LEGEND SEE CN1
2. SEE ITS30 FOR ITS DETAILS
3. ALL CLEARING/BRUSHING/TRIMMING WORK SHALL BE INCIDENTAL TO 'ITS TRAFFIC DATA ACCUMULATION AND RAMP METERING SYSTEM' BID ITEM
4. 'NO TRESPASSING' SIGNS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER

LEGEND

EXISTING	NEW	
		GRATE INLET
		CATCH BASIN
	– CLR —	TRIMMING OR CLEARING LIMITS

4TH PLAIN BLVD SYSTEM
Q1 00191

0 25 50
SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SP.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
TIME	9:12:21 AM				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
DATE	11/1/2022				CONTRACT NO.		LOCATION NO.
PLOTTED BY	fuestm						
DESIGNED BY	M. FUEST						
ENTERED BY	M. FUEST						
CHECKED BY	K. WACHTER						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA TO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

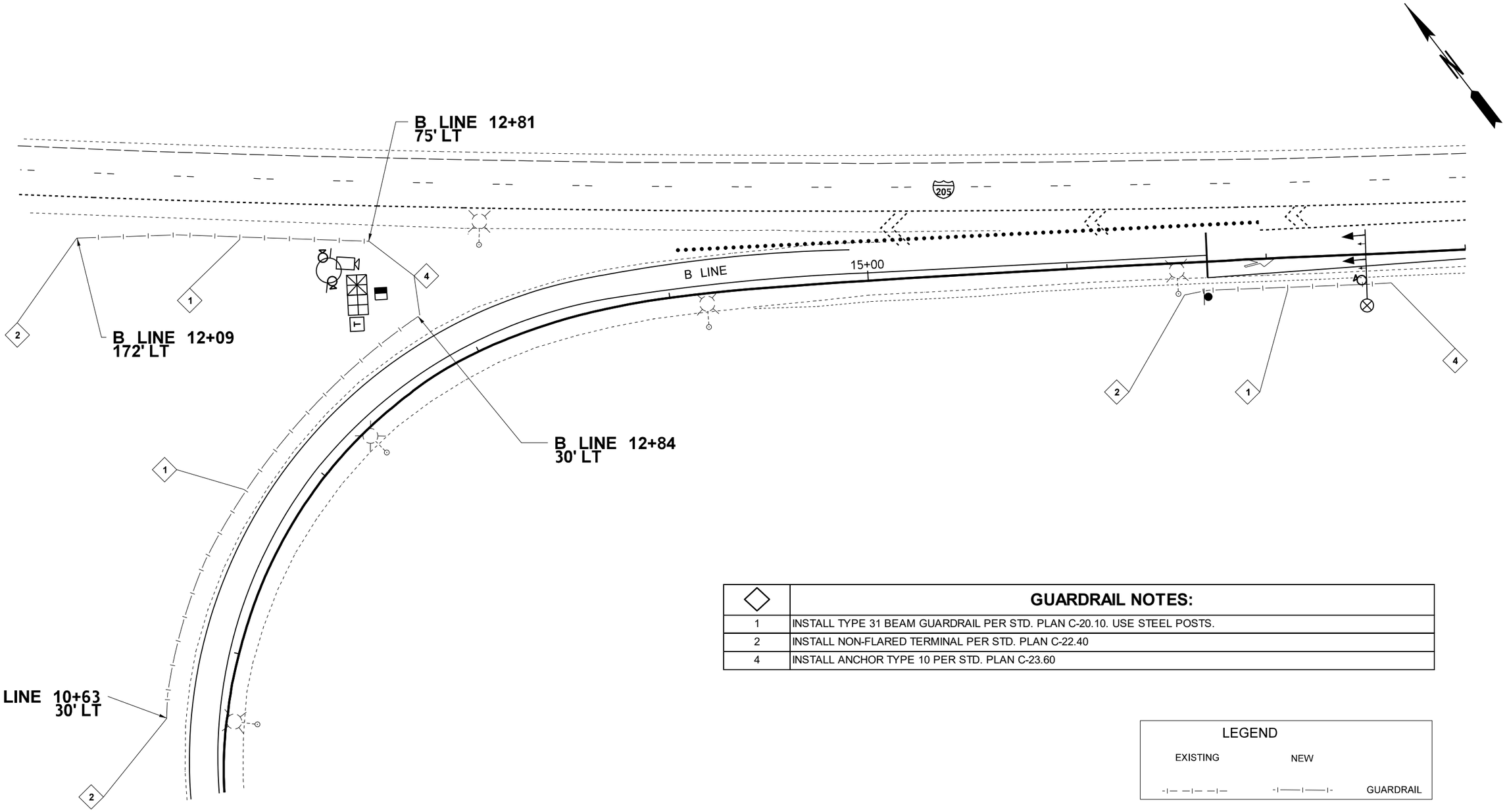
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SITE PREPARATION PLAN

Plot 5
PLAN REF NO
SP12
SHEET 18 OF 164 SHEETS



◇	GUARDRAIL NOTES:
1	INSTALL TYPE 31 BEAM GUARDRAIL PER STD. PLAN C-20.10. USE STEEL POSTS.
2	INSTALL NON-FLARED TERMINAL PER STD. PLAN C-22.40
4	INSTALL ANCHOR TYPE 10 PER STD. PLAN C-23.60

LEGEND

EXISTING	NEW	
-|— —|— —|—	-|——|——|-	GUARDRAIL

GENERAL NOTES:

1. LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO GUARDRAIL INSTALLATION
2. ELECTRICAL/ITS ASSETS SHOWN FOR REFERENCE ONLY
3. SEE ITS7-8 FOR ITS DETAILS

0 25 50
SCALE IN FEET

WB PADDEN PKWY SYSTEM
S5 03287

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SP.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	9:12:27 AM				10	WASH	STP-2051(287)
DATE	11/1/2022				JOB NUMBER		CRRSAA(UL)-0051(318)
PLOTTED BY	fuestm				22X332		
DESIGNED BY	M. FUEST				CONTRACT NO.		LOCATION NO.
ENTERED BY	M. FUEST						
CHECKED BY	K. WACHTER						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA TO HARWOOD DIAZ, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

GUARDRAIL PLAN

Plot 9
PLAN REF NO
GR1
SHEET 19 OF 164 SHEETS

DEVICE TYPE CODE

2	0	5	X	X	#	#	#	#	#

- 2 0 5 — STATE ROUTE 205
- X X — es = RAMP METER/DATA STATION; xf = TRANSFORMER; vc = VIDEO/CAMERA (CCTV)
- # # # # # — MILEPOST, WITHOUT DECIMAL POINT

ABBREVIATION

EX = EXISTING
TYP. = TYPICAL
PLCS. = PLACES
NTS = NOT TO SCALE

LEGEND

EXISTING	NEW	
		TYPE 1 JUNCTION BOX
		TYPE 2 JUNCTION BOX
		TYPE 8 JUNCTION BOX
		TYPE 4 JUNCTION BOX
		TYPE 5 JUNCTION BOX
		ELECTRICAL SERVICE CABINET
	T	TRANSFORMER CABINET
		CCTV CONTROLLER CABINET
		334D CONTROLLER CABINET
		STEEL POLE STANDARD
		RIGHT OF WAY LINE
		NON-INTRUSIVE VEHICLE DETECTION ZONE
CV		CABLE VAULT
PB	PB	PULL BOX
		CCTV CAMERA
		WAVETRONIX SENSOR
		VMS CONTROLLER CABINET
	J	CPU JUNCTION BOX
		SIGNAL HEAD
		OVERHEAD SIGN
		CPU TRANSFORMER

EXISTING	NEW	
		ADVANCE WARNING SIGN
		RAMP METER TYPE III
		RAMP METER TYPE II
		RAMP METER TYPE SD
		HIGH MAST LUMINAIRE
		CONDUIT / CONDUCTOR
BF BF		BURIED FIBER
		PAVED ROADWAY
		SKIP LINE
		CONCRETE BARRIER
		GUARDRAIL
		WHITE LINE EDGE
		YELLOW LINE EDGE
	R-#	SIGN REMOVAL
	#	POLE NOTE
	#	SIGN INSTALLATION
	#	WIRE NOTE
	#	CONSTRUCTION NOTE
		SIGN
	#	REMOVAL NOTE
	#	SIGNAL STANDARD

GENERAL NOTES:

1. WSDOT ELECTRICAL INSPECTORS SHALL BE PRESENT DURING THE INSTALLATION OF ALL CABINETS, POLES, FOUNDATIONS, FIBER CONDUITS AND CONDUCTORS, MATERIAL STATED ABOVE NOT INSTALLED IN THE PRESENCE OF AN ELECTRICAL INSPECTOR IS SUBJECT TO REJECTION.
2. DURING HOURS OF DARKNESS AND/OR INCLEMENT WEATHER THE CONTRACTOR SHALL MAINTAIN EXISTING LIGHTING LEVELS THROUGHOUT THE PROJECT. HOURS OF DARKNESS ARE DEFINED AS 1/2 HOUR PRIOR TO SUNSET AND 1/2 HOUR AFTER SUN RISE
3. ALL PRELIMINARY INVESTIGATION RELATED TO REQUEST FOR INFORMATION (RFI) SHALL BE INCIDENTAL TO THE BID ITEM BEING PERFORMED. ALL RFI'S SHALL INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING INFORMATION: LOCATION('S), EXISTING LAYOUT/CONFIGURATION, ISSUE/QUESTION AND A PROPOSED SOLUTION IF APPLICABLE.
4. ALL ELECTRICAL OR ITS STAGING WHETHER SHOWN IN THE PLANS OR CHOSEN BY THE CONTRACTOR SHALL BE INCIDENTAL TO THE BID ITEM BEING PERFORMED.
5. ELECTRICAL HOT WORK IS NOT PERMITTED.
6. LOCATES OF EXISTING UNDERGROUND UTILITIES SHALL TAKE PLACE PRIOR TO CALLING FOR THE ENGINEER TO VERIFY STAKING.
7. CONTRACTOR SHALL USE CAUTION NEAR EXISTING EQUIPMENT AND UTILITIES. ADDITIONAL HANDWORK MAY BE REQUIRED.
8. THE LOCATIONS OF FEATURES SHOWN IN THE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
9. 120 VAC POWER CONDUCTORS SHALL BE WHITE FOR NEUTRAL, BLACK FOR HOT, AND GREEN FOR GROUND. ALL FIBER OPTIC CONDUITS SHALL HAVE STANDARD CONDUIT BENDS. CONDULETS ARE PERMITTED FOR MMFO FIBER RUNS.
10. EACH 2(CS) CONDUCTOR INSTALLED AS A LOOP DETECTION LEAD-IN AND EXCEEDING 1,000 FT. CABLE LENGTH SHALL HAVE 12 AWG/WIRE.
11. PULL BOXES SHALL MATCH FINISHED CONTOUR AND GRADE.
12. EXISTING PULL BOXES AND CABLE VAULTS IMPACTED BY CONTRACT WORK SHALL BE CLEANED TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL PROTECT THE CONDUIT OPENING OF EXISTING CABLE VAULTS AND PULL BOXES IMPACTED BY THE CONTRACT WORK.
13. FIBER, CONDUITS AND CONDUCTORS SHALL BE INSTALLED A MIN. 3 FT. BEHIND GUARDRAIL POSTS AND A MIN. 2 FT. FROM SIGN POSTS AND OTHER SIMILAR APPURTENANCES ALONG THE INSTALLATION PATH. FIBER, CONDUIT, AND CONDUCTORS FOUND TO BE INSTALLED WITHIN THE MIN. CLEARANCE OF GUARDRAIL POST, SIGN POST OR SIMILAR APPURTENANCES WILL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
14. CONDUITS SHALL BE PLACED UNDER EXISTING PAVEMENT BY APPROVED DIRECTIONAL BORING OR DRILLING METHODS AT LOCATIONS APPROVED BY THE ENGINEER. UNLESS NOTED OTHERWISE ON THE PLAN SHEET.
15. NEW REPLACEMENT ELECTRICAL SERVICES SHALL BE COMPLETELY INSTALLED AND OPERATIONAL BEFORE DISCONNECTING EXISTING SERVICE AND CIRCUITS.
16. NEW FOUNDATIONS SHALL HAVE AN "IDENTIFICATION TAG", REFER TO STANDARD PLAN J-26.15 FOR SIGNAL FOUNDATIONS ID TAG DETAILS. FOR ALL OTHER TYPES OF FOUNDATIONS REFER TO ITD44 FOR ID TAG DETAILS.
17. ALL CONDUIT, WIRES AND JUNCTION BOXES SHALL BE INSTALLED WITHIN WSDOT RIGHT OF WAY UNLESS STATED OTHERWISE. PUD FEEDER WIRES AND CONDUITS ARE PERMITTED FOR INSTALLATION OUTSIDE WSDOT RIGHT OF WAY WHERE SHOWN IN THE PLANS.
18. AT LOCATIONS WHERE CONDUIT TRANSITIONS FROM BURIED CONDUIT TO STRUCTURE MOUNTED CONDUIT THE CONDUIT ELBOWS SHALL BE SWEEPS.
19. UPON COMPLETION, ALL EXPOSED SOIL AROUND THE CABINETS AND POLES SHALL BE GRADED TO MATCH THE SURROUNDING AREA AND COVERED
20. WITH SEED FERTILIZER AND MULCH. OVER SPRAT OF SEED, FERTILIZER AND MULCH ON CABINETS AND POLES SHALL BE CLEANED AT THE CONTRACTOR'S EXPENSE.
21. REMOVED ASSETS NOTED TO BE MAINTAINED BY WSDOT SHALL BE DELIVERED TO 4100 MAIN ST, VANCOUVER, WA. CONTACT DUSTIN BRIGGS (360)-619-0670 TO COORDINATE DELIVERY.
22. ALL JUNCTION BOXES INSTALLED OUTSIDE OF THE ROADWAY SHALL INCLUDE A SECURITY COLLAR PER STANDARD PLAN J-40.01.

CONSTRUCTION NOTES:

1	CONSTRUCT A FB POLE FOUNDATION. FURNISH AND INSTALL A FB POLE, SLIP BASE, FLASHING BEACON, SIGN AND ALL ASSOCIATED EQUIPMENT FOR AN ADVANCE WARNING SIGN IN ACCORDANCE WITH CONTRACT AND STANDARD PLANS. REFER TO STANDARD PLANS J-21.16, J-21.17 AND J-21.10 AND PLAN SHEET ITD51
1a	FURNISH AND INSTALL A FLASHING BEACON, SIGN AND ALL ASSOCIATED EQUIPMENT FOR AN ADVANCE WARNING SIGN IN ACCORDANCE WITH CONTRACT AND STANDARD PLANS. ADVANCE WARNING SIGN SHALL BE INSTALLED ON EXISTING CAMERA POLE. REFER TO PLAN SHEET ITD50 FOR MORE DETAILS.
1b	CONSTRUCT A FB POLE FOUNDATION. FURNISH AND INSTALL A FB POLE, SLIP BASE, FLASHING BEACON, SIGN AND ALL ASSOCIATED EQUIPMENT FOR AN ADVANCE WARNING SIGN IN ACCORDANCE WITH CONTRACT AND STANDARD PLANS. FOUNDATION TO BE INSTALLED IN EXISTING TRAFFIC ISLAND. CARE SHALL BE TAKEN TO MINIMIZE DAMAGE TO EXISTING TRAFFIC ISLAND. ANY PATCH WORK SHALL BE INCIDENTAL TO THE INSTALLATION OF THE POLE. REFER TO STANDARD PLANS J-21.16, J-21.17 AND J-21.10 AND PLAN SHEET ITD51
2	CONSTRUCT A TYPE 1 LUMINAIRE FOUNDATION. FURNISH AND INSTALL A NEW TYPE 1 LIGHT STANDARD POLE AND A WAVETRONIX SMARTSENSOR MATRIX RADAR NON-INTRUSIVE DETECTION SYSTEM, CABLES, MOUNTS AND ALL ASSOCIATED EQUIPMENT REQUIRED TO MAKE THE NON-INTRUSIVE DETECTION OPERATE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION AND ITS DETAILS SHEET ITD42. REFER TO DETAIL SHEET ITD44 FOR POLE IDENTIFICATION REQUIREMENTS. REFER TO STANDARD PLAN J-28.10 FOR POLE DETAIL AND STANDARD PLAN J-28.30 FOR FOUNDATION REQUIREMENTS.
2a	CONSTRUCT A TYPE 1 LUMINAIRE FOUNDATION. FURNISH AND INSTALL A NEW TYPE 1 LIGHT STANDARD POLE AND 2 WAVETRONIX SMARTSENSOR MATRIX RADAR NON-INTRUSIVE DETECTION SYSTEMS, CABLES, MOUNTS AND ALL ASSOCIATED EQUIPMENT REQUIRED TO MAKE THE NON-INTRUSIVE DETECTION OPERATE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION AND ITS DETAILS SHEET ITD42. REFER TO DETAIL SHEET ITD44 FOR POLE IDENTIFICATION REQUIREMENTS. REFER TO STANDARD PLAN J-28.10 FOR POLE DETAIL AND STANDARD PLAN J-28.30 FOR FOUNDATION REQUIREMENTS.
2b	CONSTRUCT A TYPE 1 LUMINAIRE FOUNDATION. FURNISH AND INSTALL A NEW TYPE 1 LIGHT STANDARD POLE, A WAVETRONIX SMARTSENSOR MATRIX RADAR NON-INTRUSIVE DETECTION SYSTEM, HD CCTV CAMERA, CABLES, MOUNTS AND ALL ASSOCIATED EQUIPMENT REQUIRED TO MAKE THE NON-INTRUSIVE DETECTION OPERATE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION AND ITS DETAILS SHEET ITD42. SEE SHEET ITD50 FOR CCTV MOUNTING DETAILS. REFER TO DETAIL SHEET ITD44 FOR POLE IDENTIFICATION REQUIREMENTS. REFER TO STANDARD PLAN J-28.10 FOR POLE DETAIL AND STANDARD PLAN J-28.30 FOR FOUNDATION REQUIREMENTS.
2c	CONSTRUCT A TYPE 1 LUMINAIRE FOUNDATION. FURNISH AND INSTALL A NEW TYPE 1 LIGHT STANDARD POLE AND A WAVETRONIX SMARTSENSOR MATRIX RADAR NON-INTRUSIVE DETECTION SYSTEM, CABLES, MOUNTS AND ALL ASSOCIATED EQUIPMENT REQUIRED TO MAKE THE NON-INTRUSIVE DETECTION OPERATE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION AND ITS DETAILS SHEET ITD42. FURNISH AND INSTALL A FLASHING BEACON, SIGN, AND ALL ASSOCIATED EQUIPMENT FOR AN ADVANCE WARNING SIGN IN ACCORDANCE WITH CONTRACT AND STANDARD PLANS. REFER TO DETAIL SHEET ITD44 FOR POLE IDENTIFICATION REQUIREMENTS. REFER TO STANDARD PLAN J-28.10 FOR POLE DETAIL AND STANDARD PLAN J-28.30 FOR FOUNDATION REQUIREMENTS. REFER TO SHEET ITD50 FOR AWS MOUNTING DETAILS.
3	CONSTRUCT A CAMERA POLE FOUNDATION. FURNISH AND INSTALL A NEW 40' CAMERA POLE, WAVETRONIX SMARTSENSOR MATRIX RADAR NON-INTRUSIVE DETECTION SYSTEM, HD CCTV CAMERA, MOUNTING HARDWARE AND ALL ASSOCIATED EQUIPMENT REQUIRED TO MAKE THE NON-INTRUSIVE DETECTION OPERATE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND ITS DETAIL SHEET ITD42. REFER TO STANDARD PLAN J-29.15 FOR POLE DETAIL AND STANDARD PLAN J-29.10 FOR FOUNDATION REQUIREMENTS. SEE SHEET ITD43 FOR CCTV CAMERA DETAILS.
3a	CONSTRUCT A CAMERA POLE FOUNDATION. FURNISH AND INSTALL A NEW 50' CAMERA POLE, WAVETRONIX SMARTSENSOR MATRIX RADAR NON-INTRUSIVE DETECTION SYSTEM, HD CCTV CAMERA, MOUNTING HARDWARE AND ALL ASSOCIATED EQUIPMENT REQUIRED TO MAKE THE NON-INTRUSIVE DETECTION OPERATE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION AND ITS DETAIL SHEET ITD42. REFER TO STANDARD PLAN J-29.15 FOR POLE DETAIL AND STANDARD PLAN J-29.10 FOR FOUNDATION REQUIREMENTS. SEE SHEET ITD43 FOR CCTV CAMERA DETAILS.
3b	CONSTRUCT A CAMERA POLE FOUNDATION. FURNISH AND INSTALL A NEW 40' CAMERA POLE, HD CCTV CAMERA, MOUNTING HARDWARE, FLASHING BEACON, SIGN AND ALL ASSOCIATED EQUIPMENT FOR AN ADVANCE WARNING SIGN IN ACCORDANCE WITH CONTRACT AND STANDARD PLANS. ADVANCE WARNING SIGN SHALL BE INSTALLED ON NEW CAMERA POLE. REFER TO PLAN SHEET ITD50 FOR MORE DETAILS. REFER TO STANDARD PLAN J-29.15 FOR POLE DETAIL AND STANDARD PLAN J-29.10 FOR FOUNDATION REQUIREMENTS. SEE SHEET ITD43 FOR CCTV CAMERA DETAILS.
3c	CONSTRUCT A CAMERA POLE FOUNDATION. FURNISH AND INSTALL A NEW 40' CAMERA POLE, WAVETRONIX SMARTSENSOR MATRIX RADAR NON-INTRUSIVE DETECTION SYSTEM, WAVETRONIX XP20 NON-INTRUSIVE DETECTION, HD CCTV CAMERA, MOUNTING HARDWARE AND ALL ASSOCIATED EQUIPMENT REQUIRED TO MAKE THE NON-INTRUSIVE DETECTION OPERATE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND ITS DETAIL SHEET ITD42. REFER TO STANDARD PLAN J-29.15 FOR POLE DETAIL AND STANDARD PLAN J-29.10 FOR FOUNDATION REQUIREMENTS. SEE SHEET ITD43 FOR CCTV CAMERA DETAILS.

CONSTRUCTION NOTES:

4	FURNISH AND INSTALL A 334D RAMP METER CABINET, WITH A 12" RISER, 2 PORT ARC WITH PRE-INSTALLED SURGE CARDS, 2070 ATC CONTROLER, RUGGEDCOM RST916C, CLICK 656, WAVETRONIX ARC, CABLES, MOUNTS AND ALL ASSOCIATED EQUIPMENT FOR A RAMP METER AND DATA STATION SYSTEM PER MANUFACTURER'S RECOMMENDATION, SPECIAL PROVISIONS AND ITD19. CABINET FOUNDATION SHALL EXTEND 4' OUTWARD BEYOND THE CABINET ON ALL SIDES. CABINET DOORS SHALL FACE IN THE DIRECTION TO BE SEEN WHILE LOOKING AT THE RAMP METER.
4a	EXTEND THE EXISTING FOUNDATION TO FIT A 334D RAMP METER CABINET. FURNISH AND INSTALL A 334D RAMP METER CABINET, WITH A 12" RISER, 2 PORT ARC WITH PRE-INSTALLED SURGE CARDS, 2070 ATC CONTROLER, RUGGEDCOM RST916C, CLICK 656, CABLES, POE EXTENDER, MOUNTS AND ALL ASSOCIATED EQUIPMENT FOR A RAMP METER, CCTV, AND DATA STATION SYSTEM PER MANUFACTURER'S RECOMMENDATION, SPECIAL PROVISIONS AND ITD17. CABINET FOUNDATION SHALL EXTEND 4' OUTWARD BEYOND THE CABINET ON ALL SIDES. CABINET DOORS SHALL FACE IN THE DIRECTION TO BE SEEN WHILE LOOKING AT THE RAMP METER.
4b	CONSTRUCT A FOUNDATION FOR A 334D RAMP METER CABINET AND TRANSFORMER. FURNISH AND INSTALL A 334D RAMP METER CABINET, WITH A 12" RISER, 2 PORT ARC WITH PRE-INSTALLED SURGE CARDS, 2070 ATC CONTROLER, RUGGEDCOM RST916C, CLICK 656, POE EXTENDER, WAVETRONIX ARC, CABLES, MOUNTS AND ALL ASSOCIATED EQUIPMENT FOR A RAMP METER, CCTV, AND DATA STATION SYSTEM PER MANUFACTURER'S RECOMMENDATION, SPECIAL PROVISIONS AND ITD17. CABINET FOUNDATION SHALL EXTEND 4' OUTWARD BEYOND THE CABINET ON ALL SIDES. CABINET DOORS SHALL FACE IN THE DIRECTION TO BE SEEN WHILE LOOKING AT THE RAMP METER.
4c	CONSTRUCT A FOUNDATION FOR A 334D RAMP METER CABINET. FURNISH AND INSTALL A 334D RAMP METER CABINET, WITH A 12" RISER, 2 PORT ARC WITH PRE-INSTALLED SURGE CARDS, 2070 ATC CONTROLER, RUGGEDCOM RST916C, CLICK 656, POE EXTENDER, WAVETRONIX ARC, POE EXTENDER, CABLES, MOUNTS AND ALL ASSOCIATED EQUIPMENT FOR A RAMP METER, CCTV, AND DATA STATION SYSTEM PER MANUFACTURER'S RECOMMENDATION, SPECIAL PROVISIONS AND ITD20. CABINET FOUNDATION SHALL EXTEND 4' OUTWARD BEYOND THE CABINET ON ALL SIDES. CABINET DOORS SHALL FACE IN THE DIRECTION TO BE SEEN WHILE LOOKING AT THE RAMP METER.
4d	CONSTRUCT A FOUNDATION FOR A 334D RAMP METER CABINET AND TRANSFORMER. FURNISH AND INSTALL A 334D RAMP METER CABINET, WITH A 12" RISER, 2 PORT ARC WITH PRE-INSTALLED SURGE CARDS, 2070 ATC CONTROLER, RUGGEDCOM RST916C, CLICK 656, CLICK 650, WAVETRONIX ARC, POE EXTENDER, CABLES, MOUNTS AND ALL ASSOCIATED EQUIPMENT FOR A RAMP METER AND DATA STATION SYSTEM PER MANUFACTURE RECOMMENDATION, SPECIAL PROVISIONS AND ITD21. CABINET FOUNDATION SHALL EXTEND 4' OUTWARD BEYOND THE CABINET ON ALL SIDES. CABINET DOORS SHALL FACE IN THE DIRECTION TO BE SEEN WHILE LOOKING AT THE RAMP METER.
4e	EXTEND THE EXISTING FOUNDATION TO FIT A 334D RAMP METER CABINET. FURNISH AND INSTALL A 334D RAMP METER CABINET, WITH A 12" RISER, 2 PORT ARC WITH PRE-INSTALLED SURGE CARDS, 2070 ATC CONTROLER, RUGGEDCOM RST916C, CLICK 656, CABLES, POE EXTENDER, MOUNTS AND ALL ASSOCIATED EQUIPMENT FOR A RAMP METER, AND DATA STATION SYSTEM PER MANUFACTURER'S RECOMMENDATION, SPECIAL PROVISIONS AND ITD18. CABINET FOUNDATION SHALL EXTEND 4' OUTWARD BEYOND THE CABINET ON ALL SIDES. CABINET DOORS SHALL FACE IN THE DIRECTION TO BE SEEN WHILE LOOKING AT THE RAMP METER.
4f	CONSTRUCT A FOUNDATION FOR A 334D RAMP METER CABINET AND TYPE B MOD SERVICE. FURNISH AND INSTALL A 334D RAMP METER CABINET, WITH A 12" RISER, 2 PORT ARC WITH PRE-INSTALLED SURGE CARDS, 2070 ATC CONTROLER, RUGGEDCOM RST916C, CLICK 656, WAVETRONIX ARC, CABLES, MOUNTS AND ALL ASSOCIATED EQUIPMENT FOR A RAMP METER, CCTV, AND DATA STATION SYSTEM PER MANUFACTURER'S RECOMMENDATION, SPECIAL PROVISIONS AND ITD21. CABINET FOUNDATION SHALL EXTEND 4' OUTWARD BEYOND THE CABINET ON ALL SIDES. CABINET DOORS SHALL FACE IN THE DIRECTION TO BE SEEN WHILE LOOKING AT THE RAMP METER.
5	REMOVE AND DISPOSE OF EXISTING JUNCTION BOX. PRESERVE EXISTING CONDUCTORS AND SWEEPS. FURNISH AND INSTALL A NEW JUNCTION BOX. REFER TO ITS PLAN SHEET FOR JUNCTION BOX TYPE.
6	CONSTRUCT A TYPE II SIGNAL FOUNDATION. FURNISH AND INSTALL A TYPE II SIGNAL POLE, TWO 3-SECTION (3-12") VEHICLE SIGNAL HEADS, AND ALL ASSOCIATED EQUIPMENT IN ACCORDANCE WITH TRAFFIC DATA ACCUMULATION AND RAMP METERING SYSTEM SPECIAL PROVISIONS. SEE DETAIL SHEET ITD48 FOR POLE AND FOUNDATION DETAILS
6a	FURNISH AND INSTALL A TYPE III SIGNAL POLE, TWO 3-SECTION (3-12") VEHICLE SIGNAL HEADS, 16' LUMINAIRE ARM, APPROVED LED HEAD, AND ALL ASSOCIATED EQUIPMENT IN ACCORDANCE WITH TRAFFIC DATA ACCUMULATION AND RAMP METERING SYSTEM SPECIAL PROVISIONS. SEE ITD49 FOR POLE DETAILS. SEE TB1 FOR BARRIER AND POLE FOUNDATION DETAILS.
6b	FURNISH AND INSTALL A TYPE SD SIGNAL POLE, THREE 3-SECTION (3-12") VEHICLE SIGNAL HEADS, AND ALL ASSOCIATED EQUIPMENT IN ACCORDANCE WITH TRAFFIC DATA ACCUMULATION AND RAMP METERING SYSTEM SPECIAL PROVISIONS. SEE DETAIL SHEET ITD49 FOR POLE AND FOUNDATION DETAILS.
6c	FURNISH AND INSTALL A TYPE SD SIGNAL POLE, TWO 3-SECTION (3-12" W/ GPL) VEHICLE SIGNAL HEADS, AND ALL ASSOCIATED EQUIPMENT IN ACCORDANCE WITH TRAFFIC DATA ACCUMULATION AND RAMP METERING SYSTEM SPECIAL PROVISIONS. SEE DETAIL SHEET ITD48-ITD49 FOR POLE AND FOUNDATION DETAILS.
7	FURNISH AND INSTALL A NEW WAVETRONIX SMARTSENSOR MATRIX NON-INTRUSIVE DETECTION, MOUNTING HARDWARE, EXTENSION AND ALL ASSOCIATED EQUIPMENT REQUIRED TO MAKE THE NON-INTRUSIVE DETECTION OPERATE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION. WAVETRONIX DETECTION SHALL BE INSTALLED A MINIMUM OF 5' AND A MAXIMUM OF 8' FROM FIRST LANE BEING DETECTED AND MOUNTED ON THE MAST ARM WITH A 5' VERTICAL EXTENSION.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn
TIME	9:55:50 AM
DATE	11/1/2022
PLOTTED BY	fuestm
DESIGNED BY	M. FUEST
ENTERED BY	M. FUEST
CHECKED BY	K. WACHTER
PROJ. ENGR.	M. HARWOOD
REGIONAL ADM.	C. FRANCIS

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. STP-2051(287)

JOB NUMBER 22X332 | CRRSAA(UL)-0051(318)

CONTRACT NO. | LOCATION NO.

MONICA JO HARWOOD DUNCAN — STATE OF WASHINGTON — 39399 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
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DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

CONSTRUCTION/WIRE NOTES

Plot 2
PLAN REF NO CN2

	CONSTRUCTION NOTES:
8	CONSTRUCT A CAMERA POLE FOUNDATION. FURNISH AND INSTALL A 40' CAMERA POLE, A NEW HD CCTV CAMERA, 2 WAVETRONIX XP20 SENSORS, CABLES, MOUNTS AND ALL ASSOCIATED EQUIPMENT REQUIRED FOR A CLOSED CIRCUIT TELEVISION (CCTV) AND NON-INTRUSIVE DECTION SYSTEM PER SPECIAL PROVISIONS, ITS DETAIL SHEETS ITD42-ITD43, STANDARD PLAN J-29.10 AND J-29.15. REFER TO DETAIL SHEET ITD44 FOR POLE IDENTIFICATION REQUIREMENTS.
9	CONSTRUCT A FOUNDATION FOR A TYPE 331L ITS CABINET. CABINET FOUNDATION SHALL EXTEND 4' OUTWARD BEYOND THE CABINET DOORS. FURNISH AND INSTALL A NEW 331L ITS CABINET WITH A 12" RISER, RUGGEDCOM RST916C, 2 PORT ARC WITH PRE-INSTALLED SURGE CARDS, CABLES, MOUNTS AND ALL ASSOCIATED EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND DETAIL SHEETS. REFER TO DETAIL SHEETS ITD17.
10	FURNISH AND INSTALL A SPLICE ENCLOSURE IN EXISTING PULL BOX OR CABLE VAULT. SPLICE NEW AND EXISTING FIBER IN EXISTING PULL BOX OR CABLE VAULT. FURNISH AND INSTALL ADDITIONAL RACKING HARDWARE IN EXISTING PULL BOX OR CABLE VAULT. RACK NEW AND EXISTING FIBER IN EXISTING PULL BOX. REFER TO PLAN SHEETS ITD47
11	FURNISH AND INSTALL A NEW WAVETRONIX SMARTSENSOR MATRIX NON INTRUSIVE DETECTION SYSTEM AND ALL ASSOCIATED EQUIPMENT REQUIRED TO MAKE THE NON-INTRUSIVE DETECTION OPERATE. WAVETRONIX SMARTSENSOR MATRIX NON INTRUSIVE DETECTION SHALL BE MOUNTED TO EXISTING LIGHT STANDARD IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION. REFER TO SHEET ITD42 FOR MOUNTING DETAILS AND SHEET ITD44 FOR POLE IDENTIFICATION REQUIREMENTS.
12	CONSTRUCT A CAMERA POLE FOUNDATION. FURNISH AND INSTALL A NEW 40' CAMERA POLE, HD CCTV CAMERA, MOUNTING HARDWARE AND ALL ASSOCIATED EQUIPMENT REQUIRED FOR A CLOSED CIRCUIT TELEVISON (CCTV) SYSTEM IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION AND STANDARD PLAN J-29.10 AND J-29.15. SEE SHEET ITD43 FOR CCTV CAMERA DETAILS
13	FURNISH AND INSTALL A 480V - 240/120V, 7.5 KVA TRANSFORMER AND CABINET FOR ITS EQUIPMENT IN ACCORDANCE WITH WSDOT STANDARD PLAN J-10.25. TRANSFORMER TO BE INSTALLED IN SAME FOUNDATION AS RAMP METER CABINET.
13a	FURNISH AND INSTALL A 480V - 240/120V, 5 KVA TRANSFORMER AND CABINET FOR ITS EQUIPMENT IN ACCORDANCE WITH WSDOT STANDARD PLAN J-10.25. TRANSFORMER TO BE INSTALLED IN SAME FOUNDATION AS RAMP METER CABINET.
14	FURNISH AND INSTALL A NEW WAVETRONIX XP20 NON-INTRUSIVE DETECTION, MOUNTING HARDWARE AND ALL ASSOCIATED EQUIPMENT REQUIRED TO MAKE THE NON-INTRUSIVE DETECTION OPERATE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION. WAVETRONIX DETECTION SHALL BE MOUNTED ON THE MAST ARM WITH A 5' VERTICAL EXTENSION. CONTRACTOR SHALL DRILL HOLE IN EXTENSION AND INSTALL LIQUID TIGHT CONNECTOR. CABLES SHALL HAVE DRIP LOOP. WAVETRONIX DETECTION SHALL BE OFFSET A MIN. OF 6' FROM THE SIGNAL STANDARD.
15	FURNISH AND INSTALL A NEW WAVETRONIX SMARTSENSOR MATRIX NON-INTRUSIVE DETECTION SYSTEM AND ALL ASSOCIATED EQUIPMENT REQUIRED TO MAKE THE NON-INTRUSIVE DETECTION OPERATE. WAVETRONIX SMARTSENSOR MATRIX SHALL BE MOUNTED TO THE EXISTING TRAFFIC SIGNAL MAST ARM WITH A 5' VERTICAL EXTENSION AND PER MANUFACTURER'S RECOMMENDATIONS.
16	CONSTRUCT A TYPE 1 LUMINAIRE FOUNDATION. FURNISH AND INSTALL A NEW TYPE 1 LIGHT STANDARD POLE AND A WAVETRONIX XP20 NON-INTRUSIVE DETECTION SYSTEM, CABLES, MOUNTS AND ALL ASSOCIATED EQUIPMENT REQUIRED TO MAKE THE NON-INTRUSIVE DETECTION OPERATE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND ITS DETAILS SHEET ITD42. REFER TO DETAIL SHEET ITD44 FOR POLE IDENTIFICATION REQUIREMENTS. REFER TO STANDARD PLAN J-28.10 FOR POLE DETAIL AND STANDARD PLAN J-28.30 FOR FOUNDATION REQUIREMENTS.
16a	CONSTRUCT A TYPE 1 LUMINAIRE FOUNDATION. FURNISH AND INSTALL A NEW TYPE 1 LIGHT STANDARD POLE AND TWO WAVETRONIX XP20 NON-INTRUSIVE DETECTION SYSTEMS, CABLES, MOUNTS AND ALL ASSOCIATED EQUIPMENT REQUIRED TO MAKE THE NON-INTRUSIVE DETECTION OPERATE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION AND ITS DETAILS SHEET ITD42. REFER TO DETAIL SHEET ITD44 FOR POLE IDENTIFICATION REQUIREMENTS. REFER TO STANDARD PLAN J-28.10 FOR POLE DETAIL AND STANDARD PLAN J-28.30 FOR FOUNDATION REQUIREMENTS.
17	REMOVE EXISTING RUGGEDCOM RS900G SWITCH. FURNISH AND INSTALL A RUGGEDCOM RST916C AND AN IP ADDRESSABLE POWER STRIP IN EXISTING CABINET.
17a	REMOVE EXISTING RUGGEDCOM RS900G SWITCH. FURNISH AND INSTALL A RUGGEDCOM RST916C, AN IP ADDRESSABLE POWER STRIP, AND A PORT ARC WITH A PRE-INSTALLED SURGE CARD IN EXISTING CABINET.
18	FURNISH AND INSTALL A TYPE B MOD. ELECTRICAL SERVICE. THE FOUNDATION SHALL EXTEND 4' BEYOND THE OUTER EDGE OF THE OPEN SERVICE DOOR. THE ELECTRICAL SERVICE SHALL BE INSTALLED IN THE SAME SERVICE PAD AS THE VMS CABINET. SEE WSDOT STANDARD PLAN J-10.20 FOR SERVICE DETAIL. SEE WSDOT STANDARD PLAN J-60.05 FOR TYPICAL GROUNDING DETAILS. SEE PLAN SHEET ITD53 FOR BREAKER SCHEDULE.
19	REMOVE AND PRESERVE EXISTING RADAR AND MOUNTING HARDWARE FROM EXISTING POLE. FURNISH AND INSTALL A XP20 NON-INTRUSIVE DETECTION SYSTEM AND ALL EQUIPMENT REQUIRED TO MAKE THE NON-INTRUSIVE DETECTION OPERATE. WAVETRONIX XP20 SHALL BE MOUNTED ON EXISTING POLE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. REFER TO SHEET ITD42 FOR MOUNTING DETAILS. REMOVED WAVETRONIX SHALL REMAIN THE PROPERTY OF WSDOT. REFER TO SPECIAL PROVISION "REMOVAL ITEMS" FOR ADDITIONAL DETAILS.

	CONSTRUCTION NOTES:
19a	FURNISH AND INSTALL A XP20 NON-INTRUSIVE DETECTION SYSTEM AND ALL EQUIPMENT REQUIRED TO MAKE THE NON-INTRUSIVE DETECTION OPERATE. WAVETRONIX XP20 SHALL BE MOUNTED ON EXISTING CAMERA POLE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. REFER TO SHEET ITD42 FOR MOUNTING DETAILS.
19b	FURNISH AND INSTALL A XP20 NON-INTRUSIVE DETECTION SYSTEM AND ALL EQUIPMENT REQUIRED TO MAKE THE NON-INTRUSIVE DETECTION OPERATE. WAVETRONIX XP20 SHALL BE MOUNTED ON EXISTING LUMINAIRE STANDARD IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. REFER TO SHEET ITD42 FOR MOUNTING DETAILS.
19c	FURNISH AND INSTALL A NEW WAVETRONIX SMARTSENSOR MATRIX NON-INTRUSIVE DETECTION SYSTEM AND ALL ASSOCIATED EQUIPMENT REQUIRED TO MAKE THE NON-INTRUSIVE DETECTION OPERATE. WAVETRONIX SMARTSENSOR MATRIX SHALL BE MOUNTED ON EXISTING LUMINAIRE STANDARD IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. REFER TO SHEET ITD42 FOR MOUNTING DETAILS.
20	CONSTRUCT A FOUNDATION FOR A TYPE E ELECTRICAL SERVICE. FURNISH AND INSTALL A TYPE E ELECTRICAL SERVICE. THE FOUNDATION SHALL EXTEND 4' BEYOND THE OUTER EDGE OF THE OPEN SERVICE DOOR. SEE STANDARD PLAN J-10.22 FOR SERVICE DETAIL. SEE STANDARD PLAN J-60.05 FOR TYPICAL GROUNDING DETAILS. SEE PLAN SHEET ITD53 FOR BREAKER SCHEDULE
20a	FURNISH AND INSTALL A TYPE E ELECTRICAL SERVICE ON EXISTING FOUNDATION, INTERNAL 480/120V TRANSFORMER SHALL BE NON-STANDARD 7.5KVA. SEE STANDARD PLAN J-10.22 FOR SERVICE DETAIL. SEE STANDARD PLAN J-60.05 FOR TYPICAL GROUNDING DETAILS. SEE PLAN SHEET ITD53 FOR BREAKER SCHEDULE. REMOVAL AND REPLACEMENT SHALL BE COMPLETED WITHIN ONE WORKING DAY DURING DAYLIGHT HOURS ONLY.
21	PULL BACK TO EXISTING JUNCTION BOX. PRESERVE AND PROTECT ALL CONDUCTORS. INSTALL EXISTING CONDUCTORS TO NEW SERVICE.
22	PULL BACK EXISTING 48 SMFO AND 96 SMFO. FURNISH AND INSTALL A SPLICE ENCLOSURE AND SPLICE IN EXISTING PULL BOX. FURNISH AND INSTALL ADDITIONAL RACKING HARDWARE. RACK NEW AND EXISTING FIBER IN EXISTING PULL BOX.
23	PULL BACK TO EXISTING PULL BOX. EXTEND TO NEW CABINET
24	FURNISH AND INSTALL A NEW HD CCTV CAMERA AND ALL ASSOCIATED EQUIPMENT REQUIRED TO MAKE THE HD CCTV CAMERA OPERATE. THE HD CCTV CAMERA SHALL BE MOUNTED TO EXISTING TRAFFIC SIGNAL STANDARD IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION. REFER TO SHEET ITD50 FOR MOUNTING DETAILS AND SHEET ITD44 FOR POLE IDENTIFICATION REQUIREMENTS.
25	FURNISH AND INSTALL WAVETRONIX EQUIPMENT PER DETAIL ITD29
26	FURNISH AND INSTALL A NEW 6' X 13' VARIABLE MESSAGE BOARD (VMS), MOUNTING HARDWARE AND ALL ASSOCIATED EQUIPMENT REQUIRED FOR AN OPERATIONAL VMS. SEE SHEET SBXX FOR MOUNTING DETAILS. SEE SPECIAL PROVISIONS FOR APPROVED VMS MANUFACTURER'S AND MODELS.
27	CONSTRUCT A FOUNDATION FOR A TYPE 331L ITS CABINET. FURNISH AND INSTALL A NEW 331L ITS CABINET WITH A 12" RISER, 2 PORT ARC WITH PRE-INSTALLED SURGE CARDS, RUGGEDCOM RST916C AND ALL ASSOCIATED EQUIPMENT IN ACCORDANCE WITH VMS MANUFACTURER'S RECOMMENDATION AND ITS DETAIL SHEETS. CABINET FOUNDATION SHALL EXTEND 4' OUTWARD BEYOND THE CABINET DOORS. FRONT OF CABINET SHALL FACE IN THE DIRECTION OF THE VMS. REFER TO ITS DETAIL SHEETS AND SPECIAL PROVISIONS FOR REQUIRED EQUIPMENT.
28	NEW TYPE B MOD SERVICE SHALL PROVIDE POWER TO EXISTING TRAFFIC SIGNAL CABINET. ROUTE NEW CONDUCTORS PER WIRE SCHEDULE THROUGH EXISTING CABINET (FORMER TRANSFORMER CABINET) . COORDINATE SIGNAL OUTAGE WITH ENGINEER A MINIMUM OF 5 DAYS PRIOR TO WORK.
29	IF EXISTING PATCH PANEL HAS FC CONNECTORS, FURNISH AND INSTALL A LC 12 PORT CARTRIDGE. CONNECT PIGTAIL TO CARTRIDGE. FURNISH AND INSTALL LC TO FC PATCH CORDS AND CONNECT TO EXISTING FC PATCH PANEL AND NEW CARTRIDGE. IF EXISTING PATCH PANEL HAS LC CONNECTORS, CONNECT PIGTAIL TO PATCH PANEL AND PROVIDE WSDOT WITH LC 12 PORT CARTRIDGE AND LC TO FC PATCH CORDS.
30	INSTALL VEHICLE INDUCTION LOOP(S) IN ACCORDANCE WITH THE INDUCTION LOOP VEHICLE DETECTION SPECIAL PROVISIONS AND STD. PLAN J-50.13. LOOP STUB OUTS SHALL BE FIELD VERIFIED WITH THE ENGINEER FOR PLACEMENT AND DEPTH.
31	CONSTRUCT A FOUNDATION FOR TWO 334D RAMP METER CABINETS AND TRANSFORMER
32	FURNISH AND INSTALL A 10 KVA 240V IN / 480V OUT STEP UP TRANSFORMER CABINET FOR ITS EQUIPMENT. SEE DETAIL SHEET ITD52. TRANSFORMER TO BE INSTALLED IN SAME FOUNDATION AS VMS AND SERVICE CABINETS.
33	LAND NEW CONDUCTORS TO EXISTING TRANSFORMER SPARE BREAKER, RELABEL BREAKER AS 205es03693. SEE ITD53 FOR BREAKER SCHEDULE.
34	INSTALL NEW CONDUCTORS INTO NEW CONDUITS AND JUNCTION BOXES. PROTECT AND PRESERVE EXISTING CONDUCTORS.
35	REMOVE AND DISPOSE OF EXISTING LID. FURNISH AND INSTALL A NEW STANDARD DUTY HINGED LID ON THE EXISTING STANDARD DUTY PULL BOX. RUN CONDUIT INTO THE EXISTING PULL BOX ENTER A MIN OF 1' FROM THE BOTTOM OF THE PULL BOX.
36	CONDUIT SHALL BE BORED TO AVOID WETLAND DISTURBANCE

⬡	CONSTRUCTION NOTES:
37	JUNCTION BOXES TO BE INSTALLED IN EXISTING TRAFFIC ISLAND. CARE SHALL BE TAKEN TO MINIMIZE DAMAGE TO EXISTING TRAFFIC ISLAND. ANY PATCH WORK SHALL BE INCIDENTAL TO THE INSTALLATION OF THE JUNCTION BOX
38	SPLICE LOOP WIRES TO HOMERUN CABLE PER STD. PLAN J-50.05
39	INSTALL TVS SURGE SUPPRESSOR FOR EACH VMS POWER CIRCUIT PER VMS MANUFACTURER. INSTALL BRANCH CIRCUIT CONDUCTORS FOR VMS SIGN AND CONNECT TO BREAKER PANEL ACCORDING TO ITD53.
40	FURNISH AND INSTALL NEW 20A CIRCUIT BREAKER. INSTALL CIRCUIT CONDUCTORS FOR 205xf03321 AND CONNECT TO BREAKER PANEL PER ITD53.
41	FURNISH AND INSTALL A 480V - 240/120V, 10 KVA TRANSFORMER AND CABINET FOR ITS EQUIPMENT IN ACCORDANCE WITH WSDOT STANDARD PLAN J-10.25. TRANSFORMER TO BE INSTALLED IN SAME FOUNDATION AS RAMP METER CABINET.

◇	CONSTRUCTION REMOVAL NOTES:
1	REMOVE EXISTING DATA STATION CABINET. WSDOT SHALL MAINTAIN OWNERSHIP OF CABINET. PRESERVE EXISTING TRANSFORMER, FOUNDATION, AND CONDUIT. SEE GENERAL NOTES FOR DELIVERY INSTRUCTIONS.
2	REMOVE EXISTING TYPE E ELECTRICAL SERVICE CABINET. WSDOT SHALL MAINTAIN OWNERSHIP OF CABINET. REMOVE AND DISPOSE OF EXISTING FEEDER WIRES. REMOVAL SHALL NOT TAKE PLACE UNTIL NEW SERVICE IS ENERGIZED AND OPERATIONAL. SEE GENERAL NOTES FOR DELIVERY INSTRUCTIONS.
3	REMOVE EXISTING TYPE E ELECTRICAL SERVICE CABINET. WSDOT SHALL MAINTAIN OWNERSHIP OF CABINET. MAINTAIN EXISTING FOUNDATION AND CONDUITS. SEE GENERAL NOTES FOR DELIVERY INSTRUCTIONS.
4	REMOVE EXISTING TRANSFORMER AND MAINTAIN CABINET. PULL BACK EXISTING POWER CONDUCTORS TO NEAREST JUNCTION BOX. WSDOT SHALL MAINTAIN OWNERSHIP OF TRANSFORMER. REMOVAL SHALL NOT TAKE PLACE UNTIL EXISTING SIGNAL ARE POWERED AND OPERATIONAL. SEE GENERAL NOTES FOR DELIVERY INSTRUCTIONS.
5	REMOVE EXISTING WAVETRONIX DETECTION, WIRES, POLE, AND FOUNDATION. WSDOT SHALL MAINTAIN OWNERSHIP OF DETECTION AND POLE. SEE GENERAL NOTES FOR DELIVERY INSTRUCTIONS.

△	COMMUNICATION WIRING SCHEDULE:		
WIRE NOTE	CONDUIT	CONDUCTOR SIZE	REMARKS
200	2"	24 SMFO	CONTROL CABINET COMMUNICATION, PRETERMINATED PIGTAIL
201	2"	24 SMFO	CONTROL CABINET COMMUNICATION, PRETERMINATED PIGTAIL
	2"		SPARE
202	*EXIST. 2"*	24 SMFO	CONTROL CABINET COMMUNICATION, PRETERMINATED PIGTAIL
203	1 1/2" RGS	2-6 MMFO OR 1-4CS	VMS COMMUNICATION
204	1 1/2"	2-6 MMFO OR 1-4CS	VMS COMMUNICATION
205	2"	2-6 MMFO OR 1-4CS	VMS COMMUNICATION
			SPARE
206	*EXIST. 2"*	2-6 MMFO OR 1-4CS	VMS COMMUNICATION

WIRING SCHEDULE:

NOTE #	CONDUIT	CONDUCTOR SIZE BASE	CONDUCTOR SIZE A1	CONDUCTOR SIZE A2	REMARKS
1	1 1/2"	1-2C 14AWG			ADVANCE WARNING SIGN
2	2"	1-2C 14AWG			ADVANCE WARNING SIGN
	2"				SPARE
3	1 1/2"	2-2C 14AWG			ADVANCE WARNING SIGN
4	2"	2-2C 14AWG			ADVANCE WARNING SIGN
		1-22-706-XXXX			WAVETRONIX
		2C(SH) 14AWG			WAVETRONIX POWER
5	2"	2-2C 14AWG			ADVANCE WARNING SIGN
		CAT6 23 AWG			CCTV POE CABLE
		2-22-706-XXXX			WAVETRONIX
		2-2C(SH) 14AWG			WAVETRONIX POWER
6	2"	CAT6 23 AWG			CCTV POE CABLE
		1-22-706-XXXX			WAVETRONIX
		2C(SH) 14AWG			WAVETRONIX POWER
	2"				SPARE
7	1 1/2"	CAT6 23 AWG			CCTV POE CABLE
8	1 1/2"	CAT6 23 AWG			CCTV POE CABLE
		1-22-706-XXXX			WAVETRONIX
		2C(SH) 14AWG			WAVETRONIX POWER
9	1 1/2"	1-22-706-XXXX			WAVETRONIX
		2C(SH) 14AWG			WAVETRONIX POWER
10	1 1/2"	2-5C			SIGNAL
		1-22-706-XXXX			WAVETRONIX
		2C(SH) 14AWG			WAVETRONIX POWER
	2"				SPARE
11	2"	2-5C			SIGNAL
		1-2C (SH)	1-2C (SH)		DETECTOR LEAD-IN
		1-22-706-XXXX	1-22-706-XXXX	2-22-706-XXXX	WAVETRONIX
				2C(SH) 14AWG	WAVETRONIX POWER
12	2"	2-2C 14AWG			ADVANCE WARNING SIGN
		CAT6 23 AWG			CCTV POE CABLE
		2-5C			SIGNAL
		1-2C (SH)	1-2C (SH)		DETECTOR LEAD-IN
		3-22-706-XXXX	3-22-706-XXXX	4-22-706-XXXX	WAVETRONIX
		2-2C(SH) 14AWG	2-2C(SH) 14AWG	3-2C(SH) 14AWG	WAVETRONIX POWER
	2"				SPARE
13	1 1/2"	2-ATP LINK CABLE			XP20 LINK CABLE
		CAT6 23 AWG			CCTV POE CABLE
14	1 1/2"	1-22-706-XXXX			WAVETRONIX
15	*EXIST. 2"*	3-1/0			CABINET POWER
		4-#8			*EXISTING ILLUMINATION*
16	1 1/2"	CAT6 23 AWG			CCTV POE CABLE
		2-ATP LINK CABLE			XP20 LINK CABLE
	2"	3-1/0			CABINET POWER
	2"				SPARE

WIRING SCHEDULE:

NOTE #	CONDUIT	CONDUCTOR SIZE BASE	CONDUCTOR SIZE A1	CONDUCTOR SIZE A2	REMARKS
17	2"	1-2C 14AWG			ADVANCE WARNING SIGN
		1-22-706-XXXX			WAVETRONIX
		2C(SH) 14AWG			WAVETRONIX POWER
18	2"	1-2C 14AWG			ADVANCE WARNING SIGN
		2-2C (SH)			DETECTOR LEAD-IN
		1-22-706-XXXX	2-22-706-XXXX	2-22-706-XXXX	WAVETRONIX
		2C(SH) 14AWG	2-2C(SH) 14AWG	2-2C(SH) 14AWG	WAVETRONIX POWER
19	2"	2-5C			SIGNAL
		1-2C (SH)	1-2C (SH)		DETECTOR LEAD-IN
		1-22-706-XXXX	1-22-706-XXXX	2-22-706-XXXX	WAVETRONIX
		2C(SH) 14AWG	2C(SH) 14AWG	2-2C(SH) 14AWG	WAVETRONIX POWER
	2"	3-#2			CABINET POWER
	2"				SPARE
20	1 1/2"	1-2C (SH)	1-2C (SH)		DETECTOR LEAD-IN
				1-22-706-XXXX	WAVETRONIX
				2C(SH) 14AWG	WAVETRONIX POWER
	2"	3-#2			CABINET POWER
21	2"	2-5C			SIGNAL
		1-22-706-XXXX			WAVETRONIX
		ATP LINK CABLE			XP20 LINK CABLE
	2"				SPARE
22	2"	2-5C			SIGNAL
		1-2C (SH)	1-2C (SH)		DETECTOR LEAD-IN
		1-22-706-XXXX	1-22-706-XXXX	2-22-706-XXXX	WAVETRONIX
		2C(SH) 14AWG	2C(SH) 14AWG	2-2C(SH) 14AWG	WAVETRONIX POWER
	2"	3-#2			CABINET POWER
23	2"	2-5C			SIGNAL
		ATP LINK CABLE			XP20 LINK CABLE
		1-2C 14AWG			ADVANCE WARNING SIGN
		CAT6 23 AWG			CCTV POE CABLE
		3-2C (SH)	1-2C (SH)		DETECTOR LEAD-IN
		3-22-706-XXXX	4-22-706-XXXX	5-22-706-XXXX	WAVETRONIX
		3-2C(SH) 14AWG	4-2C(SH) 14AWG	5-2C(SH) 14AWG	WAVETRONIX POWER
	2"				SPARE
24	2"	3-#4			SERVICE POWER
	2"				SPARE
25	2"	1-2C 14AWG			ADVANCE WARNING SIGN
		2-2C (SH)			DETECTOR LEAD-IN
		2-22-706-XXXX	3-22-706-XXXX	3-22-706-XXXX	WAVETRONIX
		2-2C(SH) 14AWG	3-2C(SH) 14AWG	3-2C(SH) 14AWG	WAVETRONIX POWER
26	2"	2-2C 14AWG			ADVANCE WARNING SIGN
		4-22-706-XXXX			WAVETRONIX
		4-2C(SH) 14AWG			WAVETRONIX POWER

WIRING SCHEDULE:

NOTE #	CONDUIT	CONDUCTOR SIZE BASE	CONDUCTOR SIZE A1	CONDUCTOR SIZE A2	REMARKS
27	2"	2-2C (SH)	2-2C (SH)		DETECTOR LEAD-IN
				1-22-706-XXXX	WAVETRONIX
				2C(SH) 14AWG	WAVETRONIX POWER
	2"				SPARE
28	2"	1-2C 14AWG			ADVANCE WARNING SIGN
		1-2C (SH)			DETECTOR LEAD-IN
		2-22-706-XXXX	2-22-706-XXXX	3-22-706-XXXX	WAVETRONIX
		2-2C(SH) 14AWG	2-2C(SH) 14AWG	3-2C(SH) 14AWG	WAVETRONIX POWER
	2"	3-#2			XFORMER POWER
29	1 1/2"	ATP LINK CABLE			XP20 LINK CABLE
30	2"	ATP LINK CABLE			XP20 LINK CABLE
	2"				SPARE
31	2"	ATP LINK CABLE			XP20 LINK CABLE
		1-2C (SH)	1-2C (SH)		DETECTOR LEAD-IN
				1-22-706-XXXX	WAVETRONIX
				2C(SH) 14AWG	WAVETRONIX POWER
32	*EXIST. 2"*	ATP LINK CABLE			XP20 LINK CABLE
33	2"	1-2C 14AWG			ADVANCE WARNING SIGN
		4-2C(SH) 14AWG			WAVETRONIX POWER
		4-22-706-XXXX			WAVETRONIX
	2"				SPARE
34	2"	4-2C 14AWG			ADVANCE WARNING SIGN
		1-2C (SH)			DETECTOR LEAD-IN
		2-22-706-XXXX			WAVETRONIX
		2-2C(SH) 14AWG			WAVETRONIX POWER
		2-CAT6 23 AWG			CCTV POE CABLE
	3"	3-3/0			TRANSFORMER POWER
35	3"	3-3/0			TRANSFORMER POWER
	2"				SPARE
36	2"	4-2C 14AWG			ADVANCE WARNING SIGN
		1-2C (SH)			DETECTOR LEAD-IN
		2-22-706-XXXX			WAVETRONIX
		2-2C(SH) 14AWG			WAVETRONIX POWER
		CAT6 23 AWG			CCTV POE CABLE
	3"	3-3/0			TRANSFORMER POWER
37	2"	4-22-706-XXXX			WAVETRONIX
		2-2C 14AWG			ADVANCE WARNING SIGN
		CAT6 23 AWG			CCTV POE CABLE
		ATP LINK CABLE			XP20 LINK CABLE
		2-5C			SIGNAL
		3-2C(SH) 14AWG			WAVETRONIX POWER
	2"				SPARE
38	2"	3-22-706-XXXX			WAVETRONIX
		ATP LINK CABLE			XP20 LINK CABLE
		2-5C			SIGNAL

WIRING SCHEDULE:

NOTE #	CONDUIT	CONDUCTOR SIZE BASE	CONDUCTOR SIZE A1	CONDUCTOR SIZE A2	REMARKS
39	2"	3-22-706-XXXX			WAVETRONIX
		ATP LINK CABLE			XP20 LINK CABLE
		2-5C			SIGNAL
		3-2C(SH) 14AWG			WAVETRONIX POWER
	2"				SPARE
40	2"	2-22-706-XXXX			WAVETRONIX
		ATP LINK CABLE			XP20 LINK CABLE
		2-5C			SIGNAL
		2-2C(SH) 14AWG			WAVETRONIX POWER
41	2"	3-#2			CABINET POWER
	2"				SPARE
42	1 1/2"	3-#6			VMS POWER
	1 1/2"				SPARE
43	2"	3-2C 14AWG			ADVANCE WARNING SIGN
		1-2C (SH)			DETECTOR LEAD-IN
		2-22-706-XXXX			WAVETRONIX
		2-2C(SH) 14AWG			WAVETRONIX POWER
		CAT6 23 AWG			CCTV POE CABLE
	3"	3-3/0			TRANSFORMER POWER
44	*EXIST. 2"*	1-2C 14AWG			ADVANCE WARNING SIGN
		2-2C (SH)			DETECTOR LEAD-IN
		2-22-706-XXXX	3-22-706-XXXX	3-22-706-XXXX	WAVETRONIX
		2-2C(SH) 14AWG	3-2C(SH) 14AWG	3-2C(SH) 14AWG	WAVETRONIX POWER
	EXIST. 2"				SPARE
45	IN BARRIER	2-5C			SIGNAL
		ATP LINK CABLE			XP20 LINK CABLE
		1-22-706-XXXX			WAVETRONIX
		2-#8			ILLUMINATION
		2C(SH) 14AWG			WAVETRONIX POWER
46	2"	2-5C			SIGNAL
		ATP LINK CABLE			XP20 LINK CABLE
		1-22-706-XXXX			WAVETRONIX
		2-#8			ILLUMINATION
		2C(SH) 14AWG			WAVETRONIX POWER
	2"				SPARE
47	2"	2-5C			SIGNAL
		ATP LINK CABLE			XP20 LINK CABLE
		1-22-706-XXXX			WAVETRONIX
		2-#8			ILLUMINATION
		2C(SH) 14AWG			WAVETRONIX POWER
48	*EXIST. 2"*	2-2C (SH)			DETECTOR LEAD-IN
		1-22-706-XXXX	2-22-706-XXXX	2-22-706-XXXX	WAVETRONIX
		2C(SH) 14AWG	2-2C(SH) 14AWG	2-2C(SH) 14AWG	WAVETRONIX POWER
	EXIST. 2"				SPARE

WIRING SCHEDULE:

NOTE #	CONDUIT	CONDUCTOR SIZE BASE	CONDUCTOR SIZE A1	CONDUCTOR SIZE A2	REMARKS
49	*EXIST. 2"*	*2-#8*			*EXISTING ILLUMINATION (IN BARRIER)*
		1-22-706-XXXX			WAVETRONIX (IN BARRIER)
		2C(SH) 14AWG			WAVETRONIX POWER (IN BARRIER)
50	2"	2-2C (SH)			DETECTOR LEAD-IN
		1-22-706-XXXX	2-22-706-XXXX	2-22-706-XXXX	WAVETRONIX
		2C(SH) 14AWG	2-2C(SH) 14AWG	2-2C(SH) 14AWG	WAVETRONIX POWER
51	2"	2-5C			SIGNAL
		ATP LINK CABLE			XP20 LINK CABLE
		1-22-706-XXXX			WAVETRONIX
		2-#8			ILLUMINATION
		CAT6 23 AWG			CCTV POE CABLE
		2C(SH) 14AWG			WAVETRONIX POWER
52	*EXIST. 1 1/2"*	2-#8			EXISTING ILLUMINATION
		1-22-706-XXXX			WAVETRONIX
		2C(SH) 14AWG			WAVETRONIX POWER
53	*EXIST. 2"*	1-22-706-XXXX			WAVETRONIX
		2C(SH) 14AWG			WAVETRONIX POWER
54	1 1/2"	2-ATP LINK CABLE			XP20 LINK CABLE
55	*EXIST. 2"*	3-#6			EXISTING CABINET POWER
		3-#6			TRANSFORMER POWER
56	EXIST. 2"	3-#6			TRANSFORMER POWER
		2-ATP LINK CABLE			XP20 LINK CABLE
57	2"	2-ATP LINK CABLE			XP20 LINK CABLE
		1-2C 14AWG			ADVANCE WARNING SIGN
		2-2C (SH)			DETECTOR LEAD-IN
		2-22-706-XXXX	3-22-706-XXXX	3-22-706-XXXX	WAVETRONIX
		2-2C(SH) 14AWG	3-2C(SH) 14AWG	3-2C(SH) 14AWG	WAVETRONIX POWER
	1 1/2"	3-#6			TRANSFORMER POWER
58	2"	3-ATP LINK CABLE			XP20 LINK CABLE
		2-5C			SIGNAL
		CAT6 23 AWG			CCTV POE CABLE
		2-2C (SH)			DETECTOR LEAD-IN
		3-22-706-XXXX	4-22-706-XXXX	4-22-706-XXXX	WAVETRONIX
		3-2C(SH) 14AWG	4-2C(SH) 14AWG	4-2C(SH) 14AWG	WAVETRONIX POWER
		1-2C 14AWG			ADVANCE WARNING SIGN
		2-#8			ILLUMINATION
	2"				SPARE
59	2"				SPARE
	2"	1-2C 14AWG			ADVANCE WARNING SIGN
		2-2C (SH)			DETECTOR LEAD-IN
		1-22-706-XXXX	2-22-706-XXXX	2-22-706-XXXX	WAVETRONIX
		2C(SH) 14AWG	2-2C(SH) 14AWG	2-2C(SH) 14AWG	WAVETRONIX POWER
60	*EXIST. 2"*	*EXIST. CAT5E(SH)*			EXISTING CCTV CABLE
		ATP LINK CABLE			XP20 LINK CABLE
61	1 1/2"	2-22-706-XXXX			WAVETRONIX
		2-2C(SH) 14AWG			WAVETRONIX POWER

WIRING SCHEDULE:

NOTE #	CONDUIT	CONDUCTOR SIZE BASE	CONDUCTOR SIZE A1	CONDUCTOR SIZE A2	REMARKS
62	2"	2-22-706-XXXX			WAVETRONIX
		2-2C(SH) 14AWG			WAVETRONIX POWER
	2"				SPARE
63	2"	2-2C 14AWG			ADVANCE WARNING SIGN
		2-2C (SH)			DETECTOR LEAD-IN
		3-22-706-XXXX	5-22-706-XXXX	5-22-706-XXXX	WAVETRONIX
		3-2C(SH) 14AWG	5-2C(SH) 14AWG	5-2C(SH) 14AWG	WAVETRONIX POWER
		CAT6 23 AWG			CCTV POE CABLE
	1 1/2"	3-#4			CABINET POWER
64	2"	2-2C 14AWG			ADVANCE WARNING SIGN
		2-2C (SH)			DETECTOR LEAD-IN
		4-22-706-XXXX	6-22-706-XXXX	6-22-706-XXXX	WAVETRONIX
		4-2C(SH) 14AWG	6-2C(SH) 14AWG	6-2C(SH) 14AWG	WAVETRONIX POWER
		CAT6 23 AWG			CCTV POE CABLE
	1 1/2"	3-#4			CABINET POWER
65	2"	ATP LINK CABLE			XP20 LINK CABLE
		3-5C			SIGNAL
		1-2C (SH)			DETECTOR LEAD-IN
		1-22-706-XXXX	1-22-706-XXXX	2-22-706-XXXX	WAVETRONIX
				2C(SH) 14AWG	WAVETRONIX POWER
66	2"	3-22-706-XXXX			WAVETRONIX
		ATP LINK CABLE			XP20 LINK CABLE
		1-5C			SIGNAL
	2"				SPARE
67	*EXIST. 2"*	SMFO			EXISTING FIBER
		ATP LINK CABLE			XP20 LINK CABLE
68	2"	2-2C (SH)	2-2C (SH)		DETECTOR LEAD-IN
				1-22-706-XXXX	WAVETRONIX
				2C(SH) 14AWG	WAVETRONIX POWER
69	MAST ARM	1-22-706-XXXX			WAVETRONIX MATRIX CABLE
		2-5C			SIGNAL
70	MAST ARM	2-5C			SIGNAL
71	MAST ARM	1-5C			SIGNAL
72	2"	CAT6 23 AWG			CCTV POE CABLE
	2"				SPARE
73	1 1/2"	ATP LINK CABLE			XP20 LINK CABLE
74	1 1/2"	2-ATP LINK CABLE			XP20 LINK CABLE
75	2"	1-22-706-XXXX			WAVETRONIX
		2C(SH) 14AWG			WAVETRONIX POWER
	2"				SPARE
76	2"	3-5C			SIGNAL
		1-22-706-XXXX			WAVETRONIX
		ATP LINK CABLE			XP20 LINK CABLE
	2"				SPARE

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn
TIME	9:57:06 AM
DATE	11/1/2022
PLOTTED BY	fuestm
DESIGNED BY	M. FUEST
ENTERED BY	M. FUEST
CHECKED BY	K. WACHTER
PROJ. ENGR.	M. HARWOOD
REGIONAL ADM.	C. FRANCIS

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. STP-2051(287) | CRRSAA(UL)-0051(318)

JOB NUMBER 22X332

CONTRACT NO. | LOCATION NO.

MONICA D. HARWOOD DUNCAN — STATE OF WASHINGTON — 39399 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

CONSTRUCTION/WIRE NOTES

Plot 37

PLAN REF NO CN7

SHEET 26 OF 164 SHEETS

WIRING SCHEDULE:

NOTE #	CONDUIT	CONDUCTOR SIZE BASE	CONDUCTOR SIZE A1	CONDUCTOR SIZE A2	REMARKS
77	2"	2-5C			SIGNAL
		1-22-706-XXXX			WAVETRONIX
		ATP LINK CABLE			XP20 LINK CABLE
		2C(SH) 14AWG			WAVETRONIX POWER
	2"				SPARE
78	2"	3-2C 14AWG			ADVANCE WARNING SIGN
			1-22-706-XXXX	1-22-706-XXXX	WAVETRONIX
			2C(SH) 14AWG	2C(SH) 14AWG	WAVETRONIX POWER
	2"	3-#4			VMS POWER
	3"	3-3/0			TRANSFORMER POWER
79	2" RGS	3-#4			VMS POWER
80	*EXIST.*	2-5C			SIGNAL
		1-22-706-XXXX			WAVETRONIX
		ATP LINK CABLE			XP20 LINK CABLE
		3-#2			XFORMER POWER
81	2"	1-2C 14AWG			ADVANCE WARNING SIGN
		ATP LINK CABLE			XP20 LINK CABLE
		2-2C (SH)	1-2C (SH)		DETECTOR LEAD-IN
		2-22-706-XXXX	3-22-706-XXXX	4-22-706-XXXX	WAVETRONIX
		2-2C(SH) 14AWG	3-2C(SH) 14AWG	4-2C(SH) 14AWG	WAVETRONIX POWER
	2"				SPARE
	2"	3-#2			XFORMER POWER
82	2"	3-#4			VMS POWER
83	2"	3-#1			TRANSFORMER POWER
	2"				SPARE
84	2"				SPARE
	2"	CAT6 23 AWG			CCTV POE CABLE
		2C(SH) 14AWG	2-2C(SH) 14AWG	2-2C(SH) 14AWG	WAVETRONIX POWER
		1-22-706-XXXX	2-22-706-XXXX	2-22-706-XXXX	WAVETRONIX
85	2"	4-5C			SIGNAL
		2-22-706-XXXX			WAVETRONIX
		ATP LINK CABLE			XP20 LINK CABLE
86	2"	1-2C 14AWG			ADVANCE WARNING SIGN
		1-22-706-XXXX			WAVETRONIX
		2C(SH) 14AWG			WAVETRONIX POWER
87	2"	3-22-706-XXXX			WAVETRONIX
		1-2C 14AWG			ADVANCE WARNING SIGN
		3-2C(SH) 14AWG			WAVETRONIX POWER
88	1 1/2"	1-22-706-XXXX			WAVETRONIX
		2-5C			SIGNAL
	2"				SPARE
89	2"		1-22-706-XXXX	1-22-706-XXXX	WAVETRONIX
			2C(SH) 14AWG	2C(SH) 14AWG	WAVETRONIX POWER
		3-2C 14AWG			ADVANCE WARNING SIGN
	3"	3-3/0			TRANSFORMER POWER
	2"				SPARE

WIRING SCHEDULE:

NOTE #	CONDUIT	CONDUCTOR SIZE BASE	CONDUCTOR SIZE A1	CONDUCTOR SIZE A2	REMARKS
90	2"	2-2C 14AWG			ADVANCE WARNING SIGN
		4-22-706-XXXX			WAVETRONIX
		4-2C(SH) 14AWG			WAVETRONIX POWER
	2"				SPARE
91	2"	4-2C 14AWG			ADVANCE WARNING SIGN
		1-2C (SH)			DETECTOR LEAD-IN
		2-22-706-XXXX			WAVETRONIX
		2-2C(SH) 14AWG			WAVETRONIX POWER
		2-CAT6 23 AWG			CCTV POE CABLE
	2"				SPARE
92	1 1/2"	3-2C 14AWG			ADVANCE WARNING SIGN
		1-2C (SH)			DETECTOR LEAD-IN
	3"	3-3/0			TRANSFORMER POWER
93	2"	1-2C 14AWG			ADVANCE WARNING SIGN
		2C(SH) 14AWG	2-2C(SH) 14AWG	2-2C(SH) 14AWG	WAVETRONIX POWER
		1-22-706-XXXX	2-22-706-XXXX	2-22-706-XXXX	WAVETRONIX
	2"				SPARE
94	1 1/2"	3-2C 14AWG			ADVANCE WARNING SIGN
		1-2C (SH)			DETECTOR LEAD-IN
	3"	3-3/0			TRANSFORMER POWER
95	MAST ARM	1-22-706-XXXX			WAVETRONIX MATRIX CABLE
		2-5C			SIGNAL
		2C(SH) 14AWG			WAVETRONIX POWER
96	2"	2-2C 14AWG			ADVANCE WARNING SIGN
		1-2C (SH)			DETECTOR LEAD-IN
		2-22-706-XXXX	3-22-706-XXXX	3-22-706-XXXX	WAVETRONIX
		2-2C(SH) 14AWG	3-2C(SH) 14AWG	3-2C(SH) 14AWG	WAVETRONIX POWER
97	2"	3-2C 14AWG			ADVANCE WARNING SIGN
		1-2C (SH)			DETECTOR LEAD-IN
	3"	3-3/0			TRANSFORMER POWER
	2"				SPARE
98	2"	2-2C 14AWG			ADVANCE WARNING SIGN
		2-2C (SH)			DETECTOR LEAD-IN
		2-22-706-XXXX	4-22-706-XXXX	4-22-706-XXXX	WAVETRONIX
		2-2C(SH) 14AWG	4-2C(SH) 14AWG	4-2C(SH) 14AWG	WAVETRONIX POWER
	1 1/2"	3-#4			CABINET POWER
99	2"	3-2C 14AWG			ADVANCE WARNING SIGN
		1-2C (SH)			DETECTOR LEAD-IN
		1-22-706-XXXX			WAVETRONIX
		2C(SH) 14AWG			WAVETRONIX POWER
		CAT6 23 AWG			CCTV POE CABLE
	3"	3-3/0			TRANSFORMER POWER

WIRING SCHEDULE:

NOTE #	CONDUIT	CONDUCTOR SIZE BASE	CONDUCTOR SIZE A1	CONDUCTOR SIZE A2	REMARKS
100	2 1/2"	2-2C 14AWG			ADVANCE WARNING SIGN
		3-2C (SH)	1-2C (SH)		DETECTOR LEAD-IN
		5-22-706-XXXX	7-22-706-XXXX	8-22-706-XXXX	WAVETRONIX
		4-2C(SH) 14AWG	6-2C(SH) 14AWG	7-2C(SH) 14AWG	WAVETRONIX POWER
		CAT6 23 AWG			CCTV POE CABLE
		ATP LINK CABLE			XP20 LINK CABLE
		3-5C			SIGNAL
	2 1/2"				SPARE
101	MAST ARM	1-22-706-XXXX			WAVETRONIX MATRIX CABLE
		3-5C			SIGNAL
102	MAST ARM	3-5C			SIGNAL
103	1 1/2"	2-5C			SIGNAL
		1-2C (SH)	1-2C (SH)		DETECTOR LEAD-IN
		1-22-706-XXXX	1-22-706-XXXX	2-22-706-XXXX	WAVETRONIX
				2C(SH) 14AWG	WAVETRONIX POWER
	2"				SPARE
104	2"	3-#4			CABINET POWER
	2"				SPARE
105	*EXIST. 1 1/2"*	*2-#8*			*EXISTING LIGHTING*
		2-#4			*EXISTING LIGHTING*
		2-#6			*EXISTING LIGHTING*
		2-#8			*EXISTING LIGHTING*
106	*EXIST.*				EXISTING CPU SUPPLY
107	2"	1-1/0 AL			CPU SUPPLY
108	2"	1-2C 14AWG			ADVANCE WARNING SIGN
		CAT6 23 AWG			CCTV POE CABLE
109	2"	1-2C (SH)	1-2C (SH)		DETECTOR LEAD-IN
		2-5C			SIGNAL
		1-22-706-XXXX			WAVETRONIX
		ATP LINK CABLE			XP20 LINK CABLE
	2"				SPARE
110	4"	3-1/0 AL			CPU SUPPLY
111	1 1/2"			485 PATCH	485 PATCH CABLE
112	*EXIST. 2"*	3-1/0			CABINET POWER
113	2"	3-1/0			CABINET POWER
114	*EXIST. 2"*	*2-#8*			*EXIST. ITS XFORMER POWER*
		3-1/0			CABINET POWER
115	2"	CAT6 23 AWG			CCTV POE CABLE
		1-22-706-XXXX			WAVETRONIX
		ATP LINK CABLE			XP20 LINK CABLE
116	*EXIST.*	3-#2			XFORMER POWER
117	*EXIST. 2"*	3-#2			XFORMER POWER
118	*EXIST.*	1-22-706-XXXX			WAVETRONIX
		2C(SH) 14AWG			WAVETRONIX POWER
119	*EXIST. 2"*	3-#4			CABINET POWER

WIRING SCHEDULE:

NOTE #	CONDUIT	CONDUCTOR SIZE BASE	CONDUCTOR SIZE A1	CONDUCTOR SIZE A2	REMARKS
120	2"	3-22-706-XXXX			WAVETRONIX
		1-2C 14AWG			ADVANCE WARNING SIGN
		3-2C(SH) 14AWG			WAVETRONIX POWER
	2"				SPARE
121	4"	3-300 kcmil			SERVICE POWER
122	2"	3-#2			SERVICE POWER
	2"	3-#1			TRANSFORMER POWER
	2"	3-#4			VMS POWER
	2"				SPARE
123	3"	3-3/0			TRANSFORMER POWER
	2"				SPARE
124	*EXIST. 2"*	*3-#2*			*TRANSFORMER POWER*
125	2"	*2-#8*			*EXISTING LIGHTING*
		2-#4			*EXISTING LIGHTING*
		2-#6			*EXISTING LIGHTING*
		2-#8			*EXISTING LIGHTING*
126	2"	*3-#2*			*TRANSFORMER POWER*
127	*EXIST. 2"*	*4-#6*			*EXISTING POWER*
		3-#6			TRANSFORMER POWER
128	2"	3-#6			TRANSFORMER POWER
	2"				SPARE
129	2"	3-#6			CABINET POWER
	2"				SPARE
130	*EXIST. 1"*	*2-#8*			*EXISTING ILLUMINATION*
		1-22-706-XXXX			WAVETRONIX
		2C(SH) 14AWG			WAVETRONIX POWER
131	*EXIST. 2"*	*9-#12*			*EXISTING SIGNAL*
		5-#12			*EXISTING DETECTION*
		4-#12			*EXISTING ILLUMINATION*
		1-3C(SH)			*EXISTING PREEMPTION*
		2-#12			*EXISTING PREEMPTION*
		5-#12			*EXISTING SPARES*
		CAT6 23 AWG			CCTV POE CABLE
132	*EXIST. 1"*	*2-#8*			*EXISTING ILLUMINATION*
		1-2C 14AWG			ADVANCE WARNING SIGN
133	*EXIST 2"*	3-#4			CABINET POWER
134	EXIST 1 1/4"	*3-#4*			*EXISTING CABINET POWER*
		3-#4			CABINET POWER
135	2"	3-#4			VMS POWER
	2"				SPARE
136	2"	3-#4			VMS POWER
	3"	3-3/0			TRANSFORMER POWER
	2"				SPARE

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DATE	11/2/2022
PLOTTED BY	fuestm
DESIGNED BY	M. FUEST
ENTERED BY	M. FUEST
CHECKED BY	K. WACHTER
PROJ. ENGR.	M. HARWOOD
REGIONAL ADM.	C. FRANCIS

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. STP-2051(287)

JOB NUMBER 22X332 | CRRSAA(UL)-0051(318)

CONTRACT NO. | LOCATION NO.

MONICA D. HARWOOD, DIRECTOR — STATE OF WASHINGTON — 39399 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

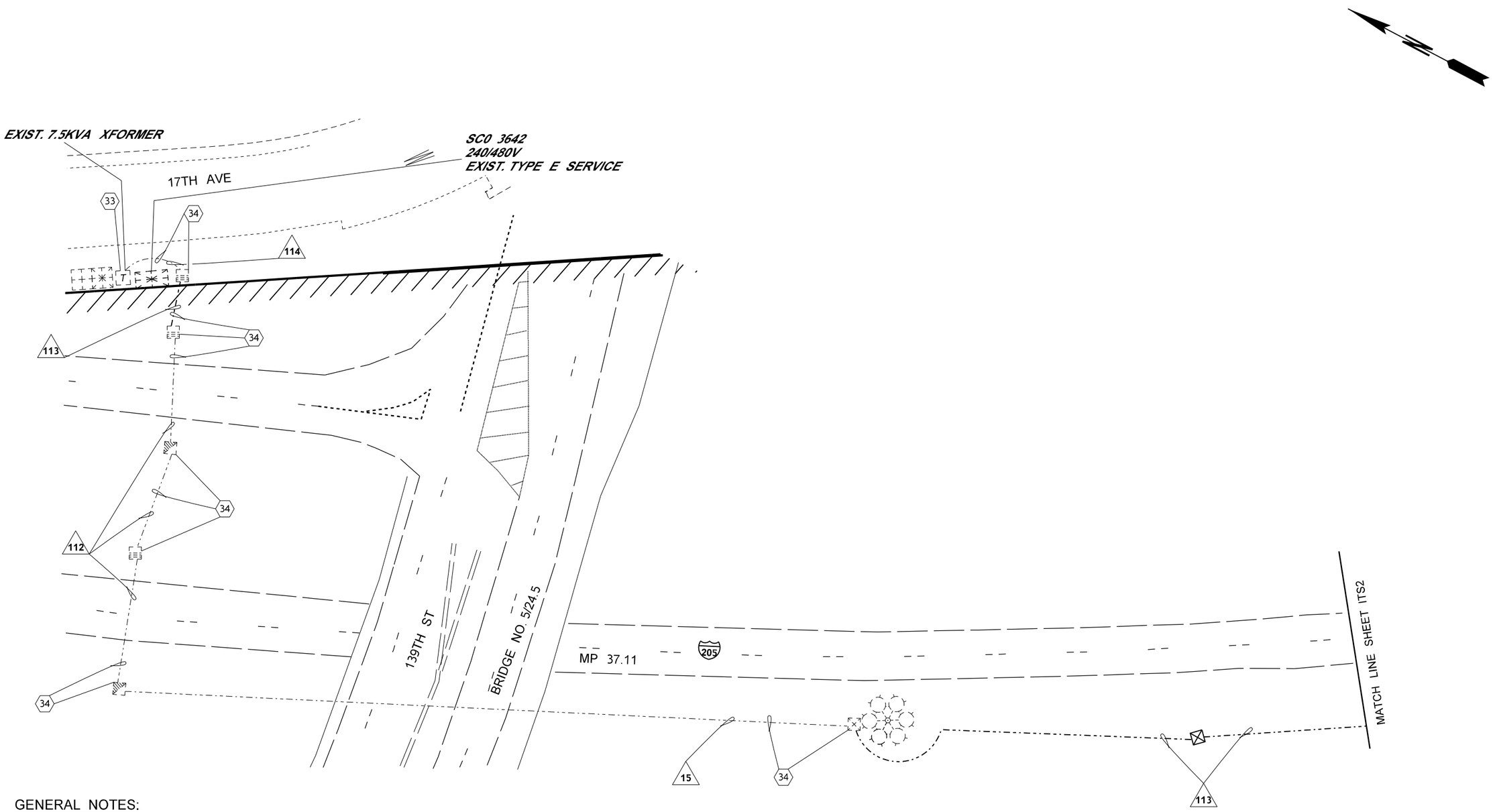
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

CONSTRUCTION/WIRE NOTES

Plot 39

PLAN REF NO CN9

SHEET 28 OF 164 SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

134TH ST SYSTEM

S1 03617

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DATE	11/1/2022				JOB NUMBER		CRRSAA(UL)-0051(318)
PLOTTED BY	fuestm				22X332		
DESIGNED BY	M. FUEST				CONTRACT NO.		LOCATION NO.
ENTERED BY	M. FUEST						
CHECKED BY	K. WACHTER						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA JO HARWOOD DUNCAN, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

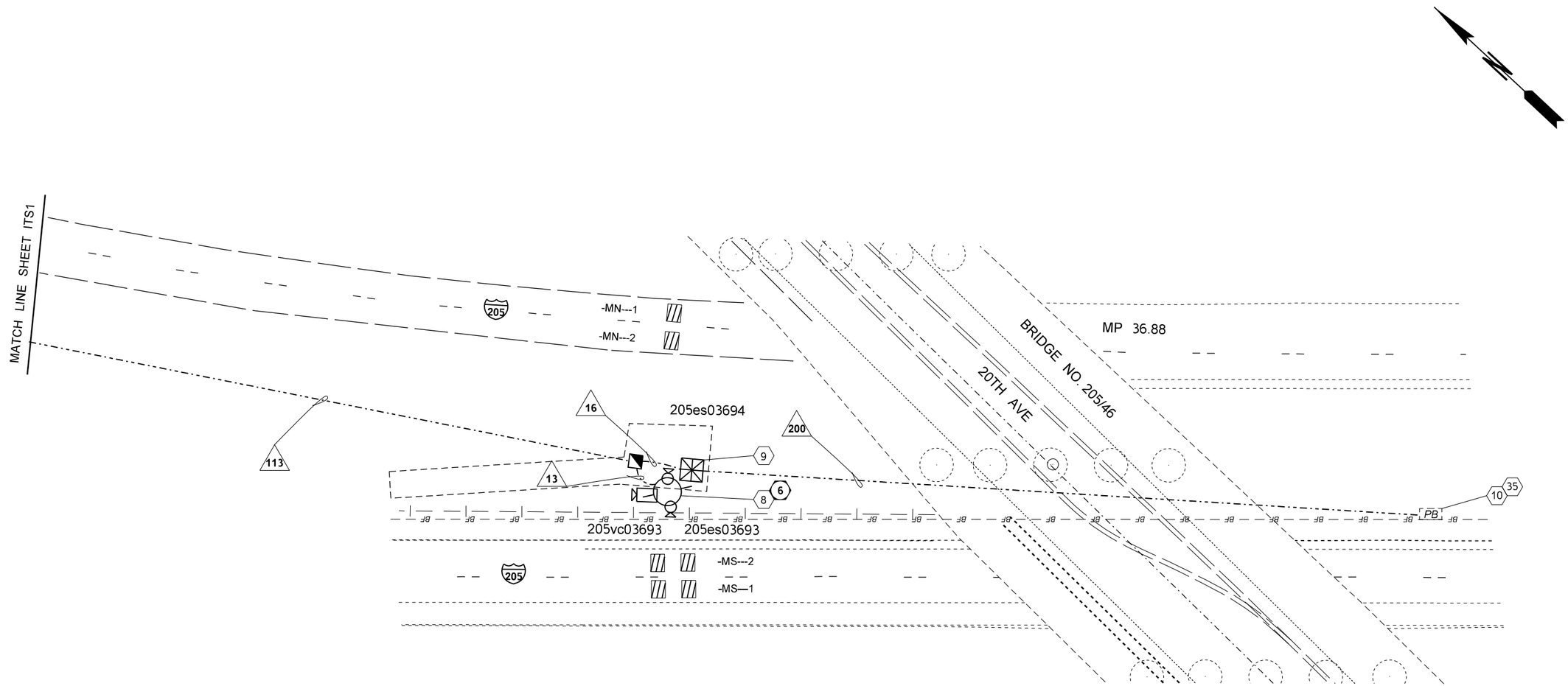
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 7
PLAN REF NO
ITS1
SHEET 29 OF 164 SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

134TH ST SYSTEM

0 25 50
SCALE IN FEET

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DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
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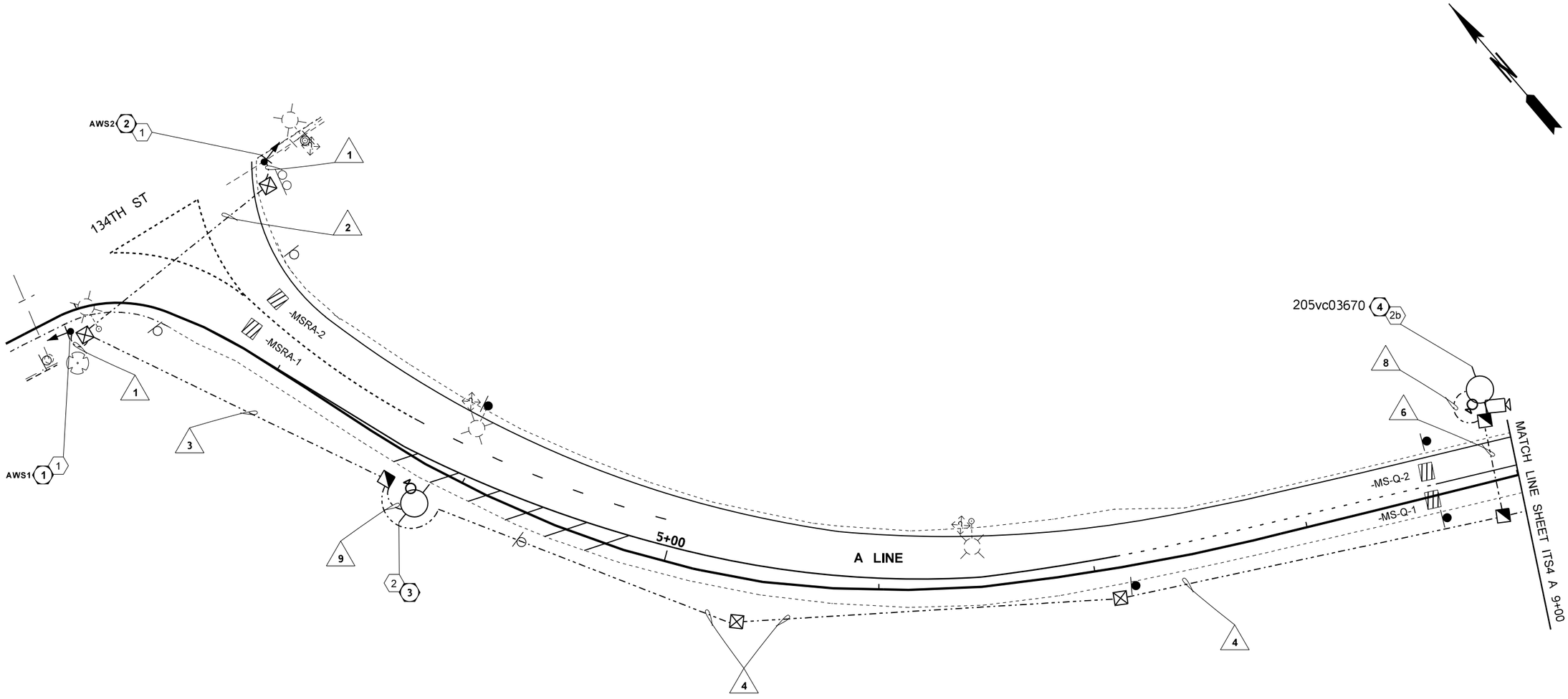
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 8
PLAN REF NO
ITS2
SHEET 30 OF 164 SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

134TH ST SYSTEM
S1 03617

0 25 50
SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn			
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DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
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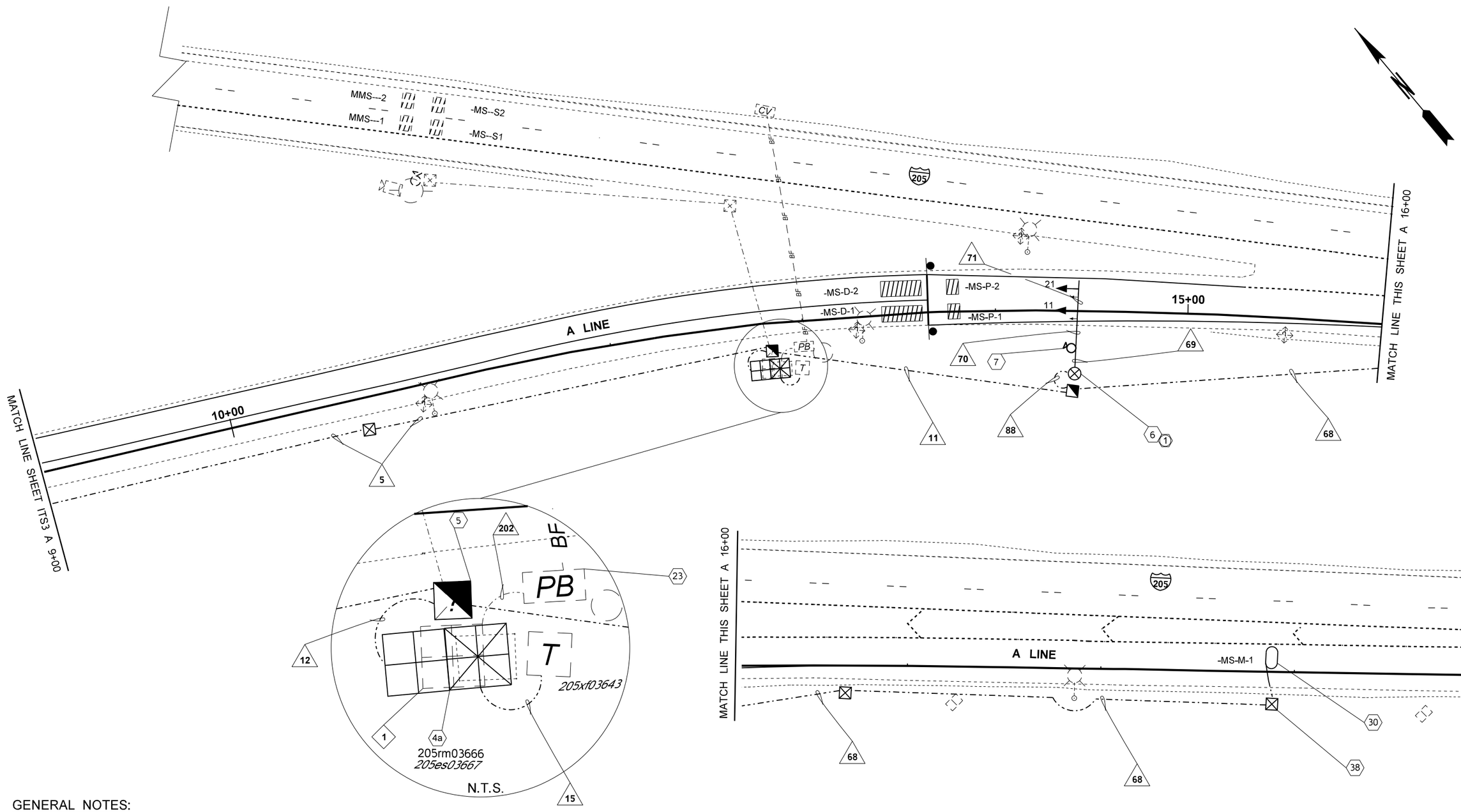
Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 6
PLAN REF NO
ITS3
SHEET
31
OF
164
SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

134TH ST SYSTEM
S1 03617

0 25 50
SCALE IN FEET

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DATE	11/1/2022						
PLOTTED BY	fuestm						
DESIGNED BY	M. FUEST				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
ENTERED BY	M. FUEST						
CHECKED BY	K. WACHTER				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA O. HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
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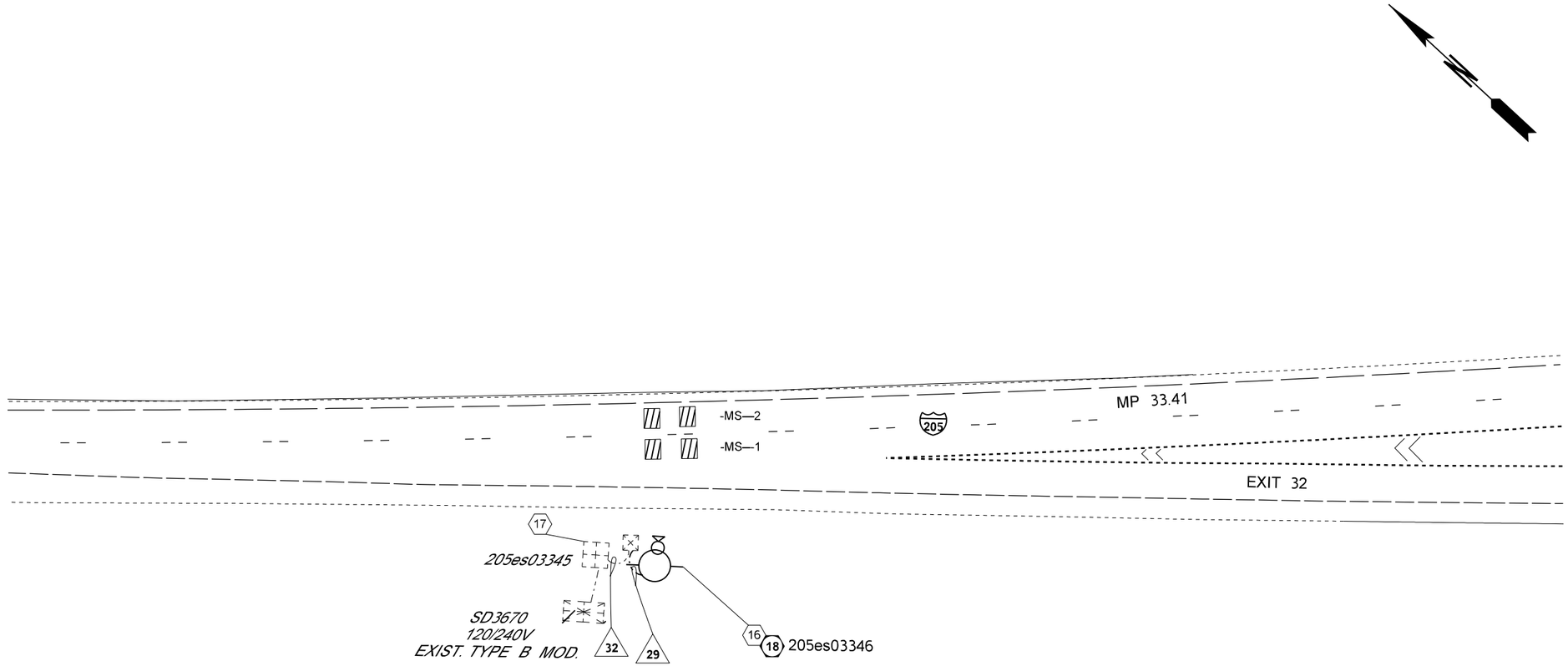
Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 30
PLAN REF NO
ITS4
SHEET 32 OF 164 SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

PADDEN PKWY SYSTEM

0 25 50
SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn						
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DATE	11/1/2022						
PLOTTED BY	fuestm				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST						
ENTERED BY	M. FUEST						
CHECKED BY	K. WACHTER				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
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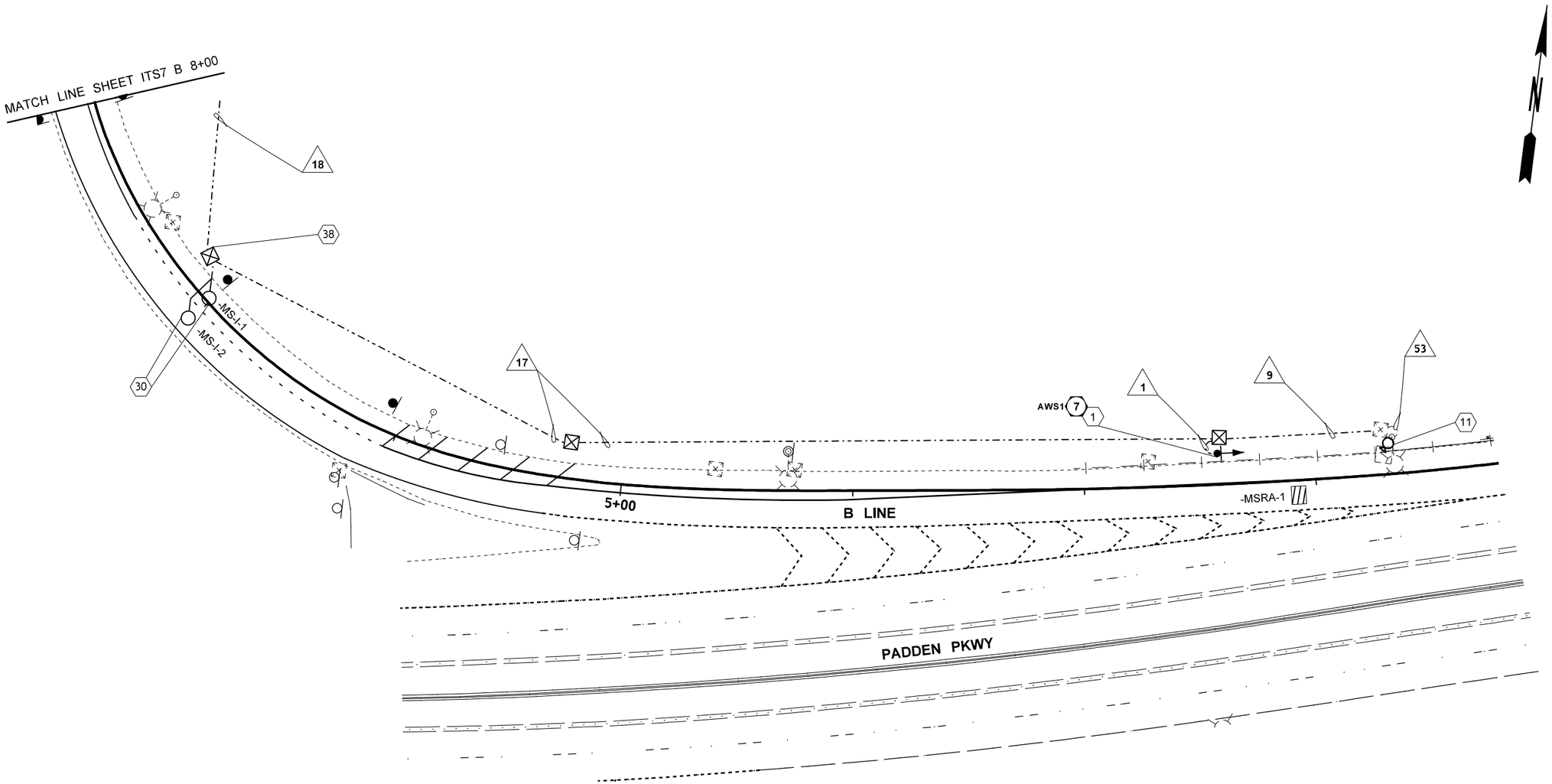
Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 14
PLAN REF NO
ITS5
SHEET 33 OF 164 SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

WB PADDEN PKWY SYSTEM

S5 03287

0 25 50

SCALE IN FEET

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DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

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I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

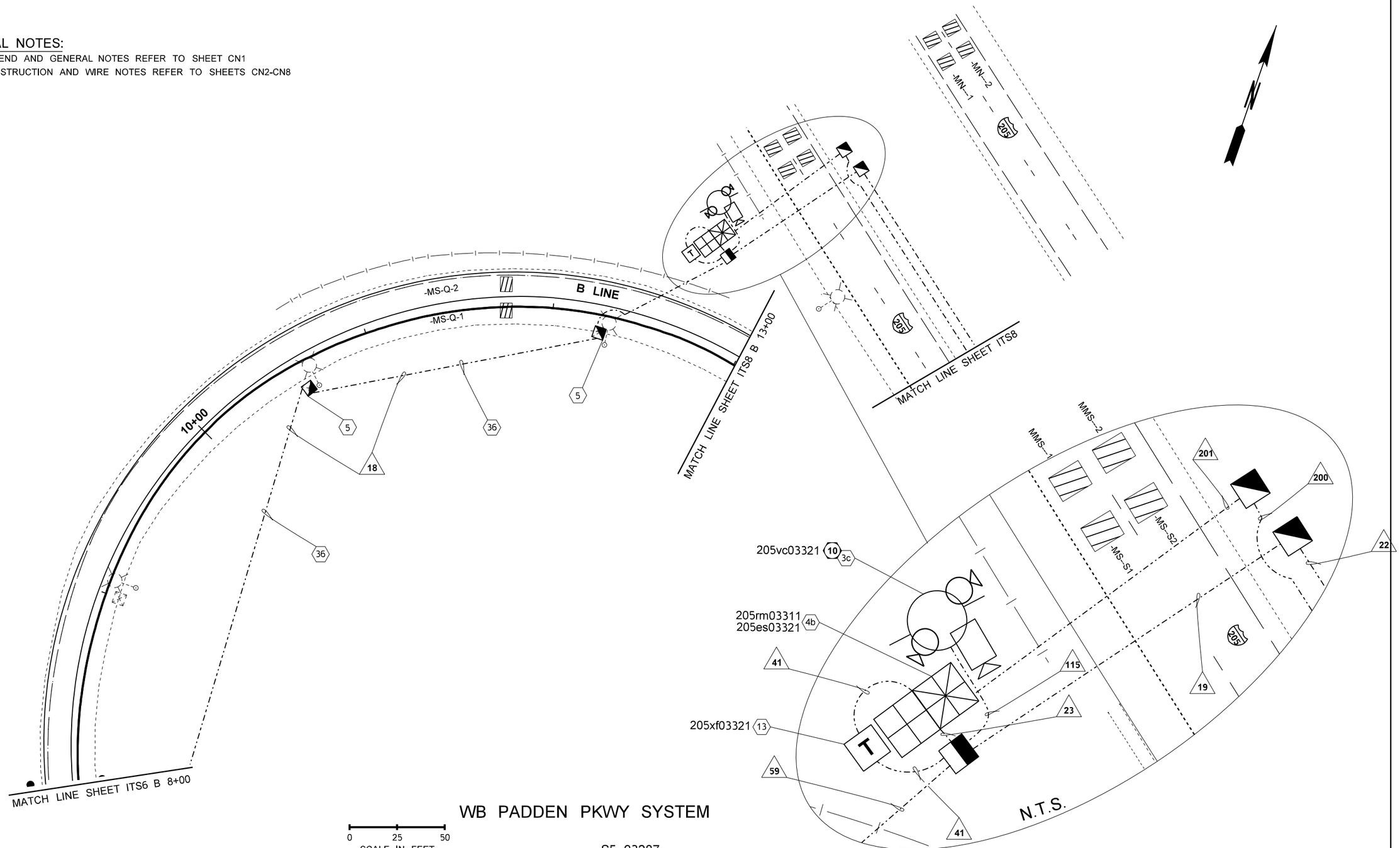
Plot 9

PLAN REF NO ITS6

SHEET 34 OF 164 SHEETS

GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8



WB PADDEN PKWY SYSTEM

0 25 50
SCALE IN FEET

S5 03287

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DATE	11/1/2022				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
PLOTTED BY	fuestm				CONTRACT NO.		LOCATION NO.
DESIGNED BY	M. FUEST						
ENTERED BY	M. FUEST						
CHECKED BY	K. WACHTER						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA D. HARWOOD DUNCAN — STATE OF WASHINGTON — 39399 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
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DATE
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Washington State Department of Transportation

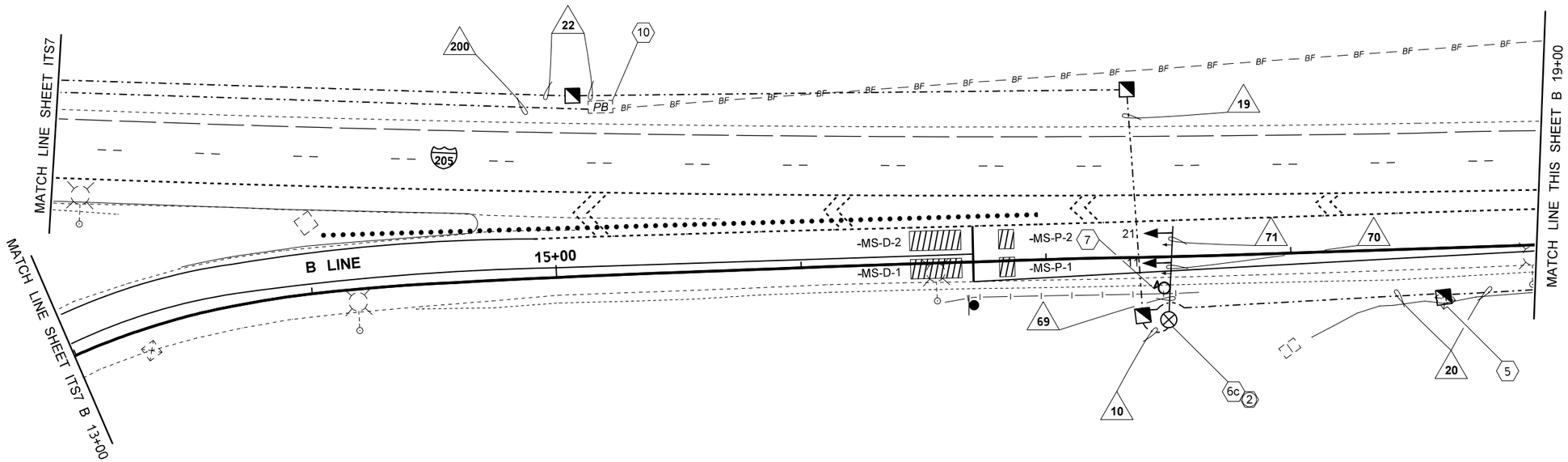
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN RAMP METERS

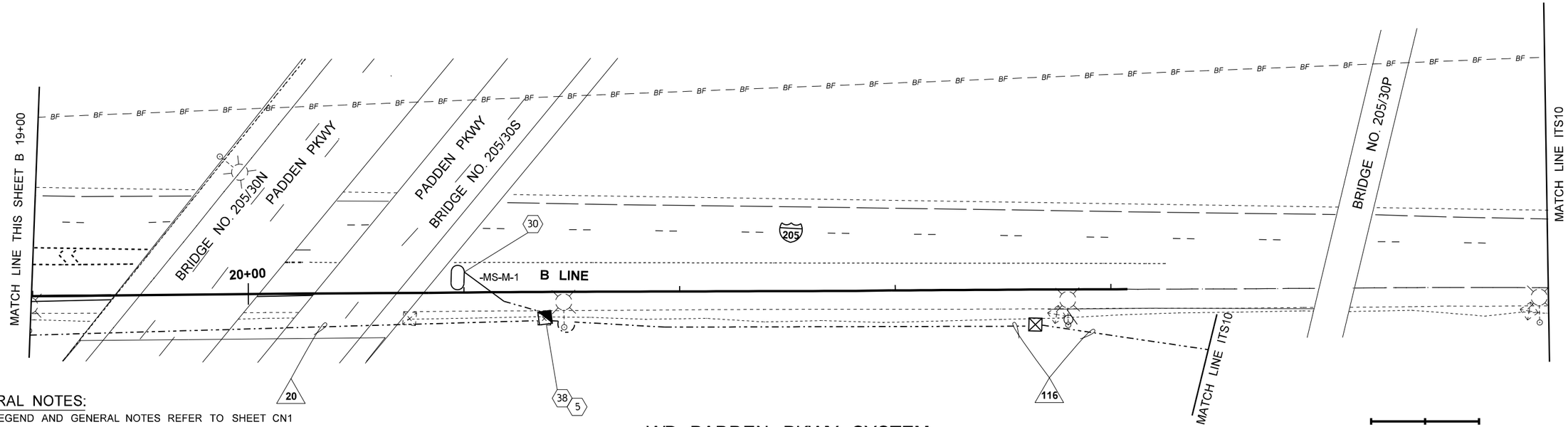
ITS PLAN

Plot 34

PLAN REF NO
ITS7

SHEET 35 OF 164 SHEETS





GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

WB PADDEN PKWY SYSTEM

S5 03287

0 25 50

SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn			
TIME	9:56:03 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

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Washington State Department of Transportation

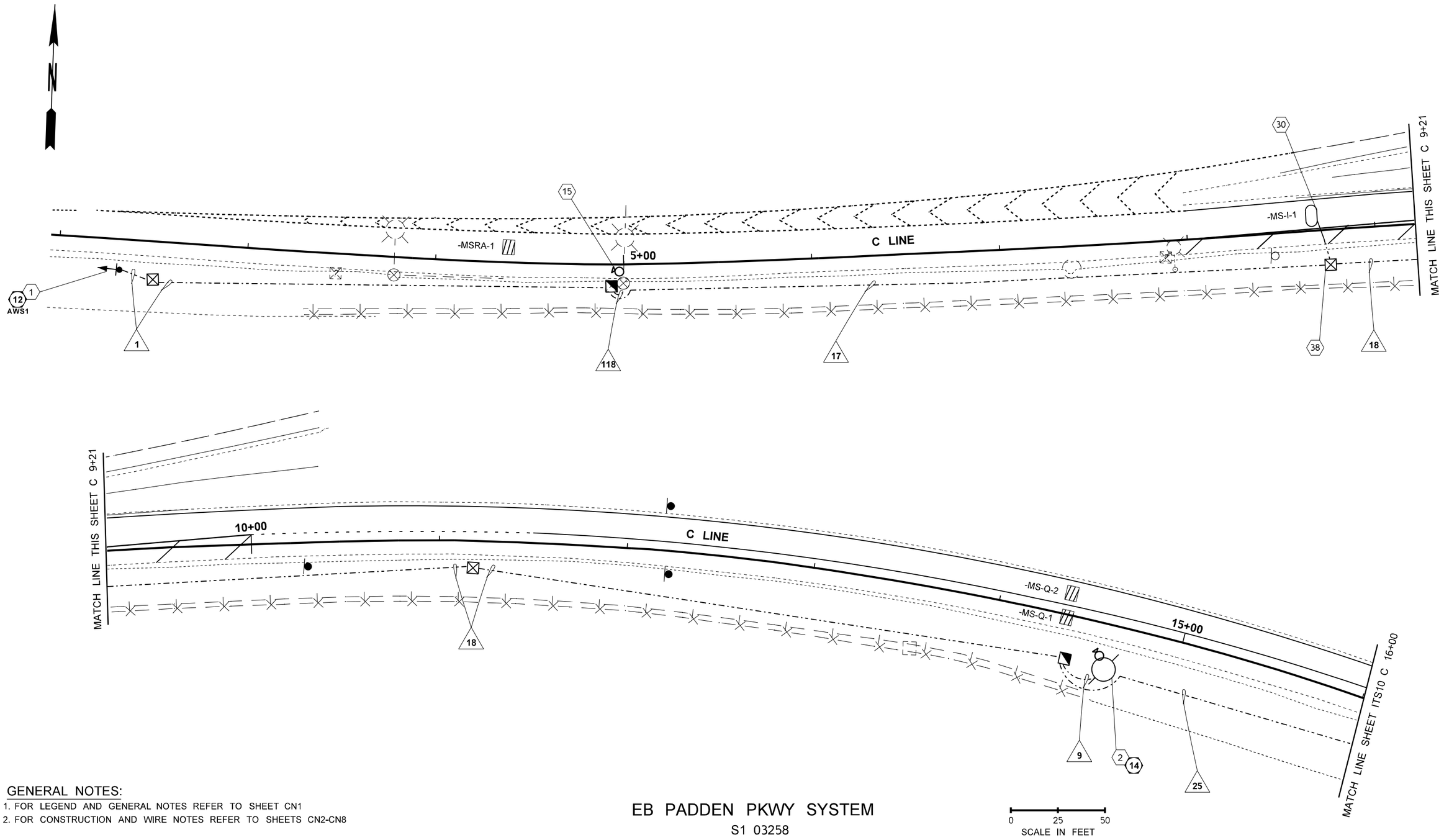
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 10

PLAN REF NO ITS8

SHEET 36 OF 164 SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

EB PADDEN PKWY SYSTEM

S1 03258

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn			
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DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

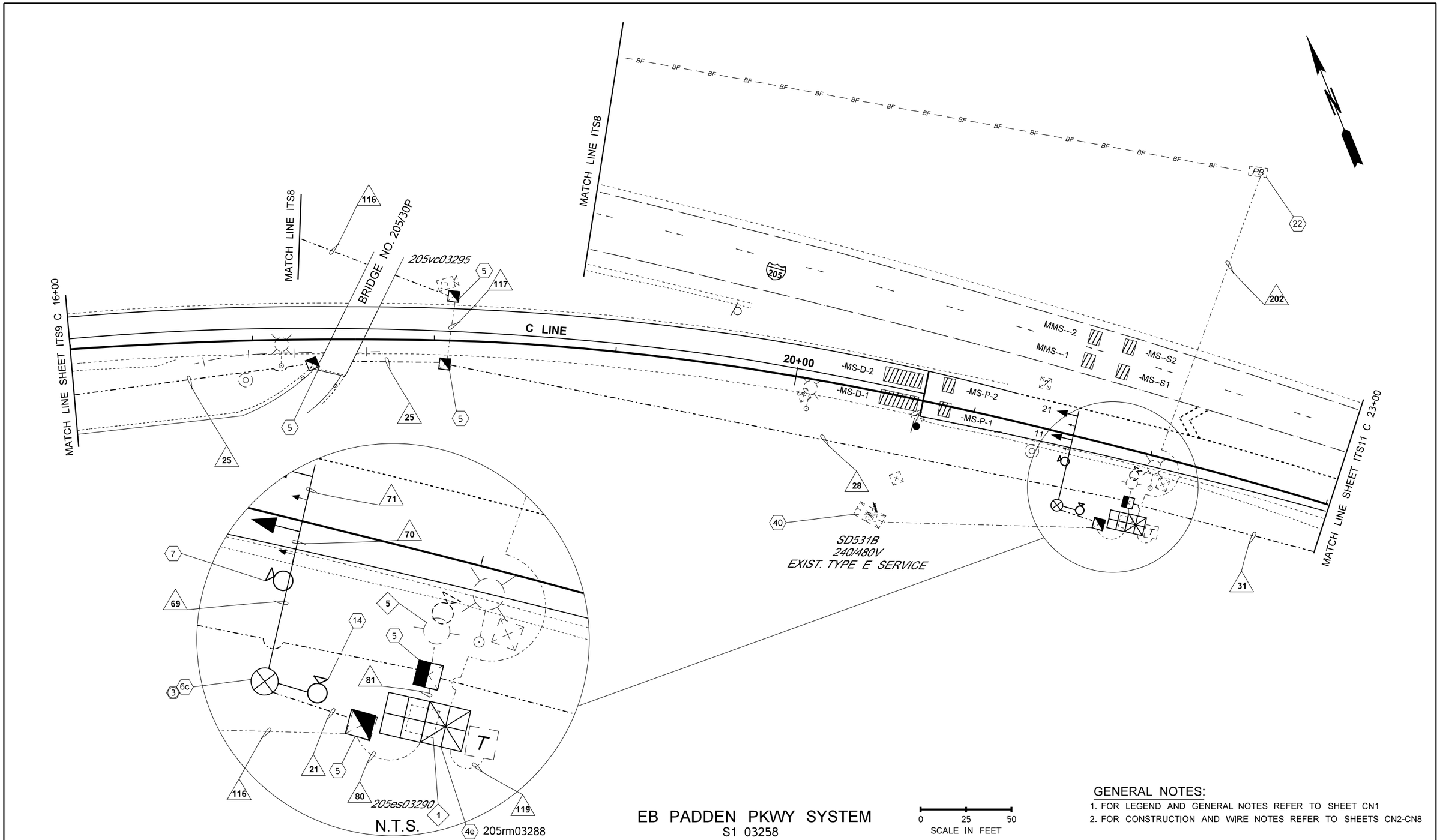
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 11
PLAN REF NO
ITS9
SHEET 37 OF 164 SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn			
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DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA D. HARWOOD DIAZ-CRUZ
STATE OF WASHINGTON
39391
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

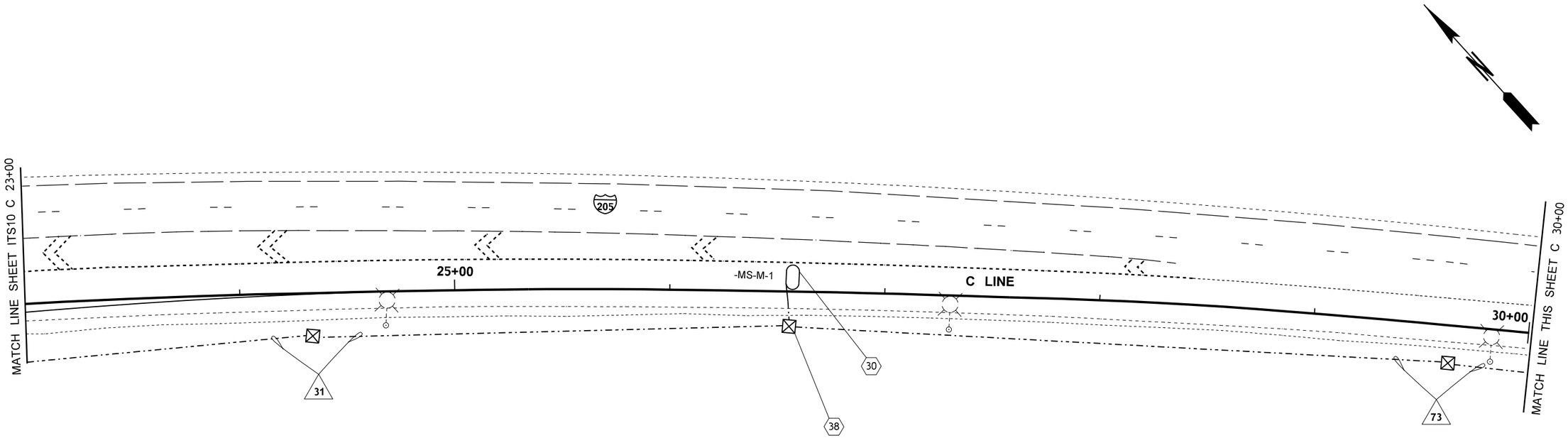
DATE
P.E. STAMP BOX

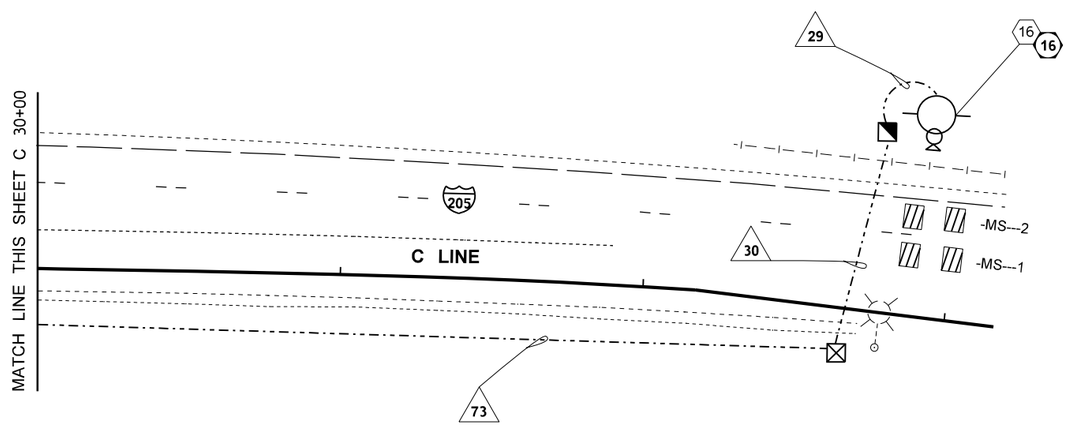
Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 12
PLAN REF NO
ITS10
SHEET 38 OF 164 SHEETS





GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

EB PADDEN PKWY SYSTEM

S1 03258

0 25 50
SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn			
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PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA TO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

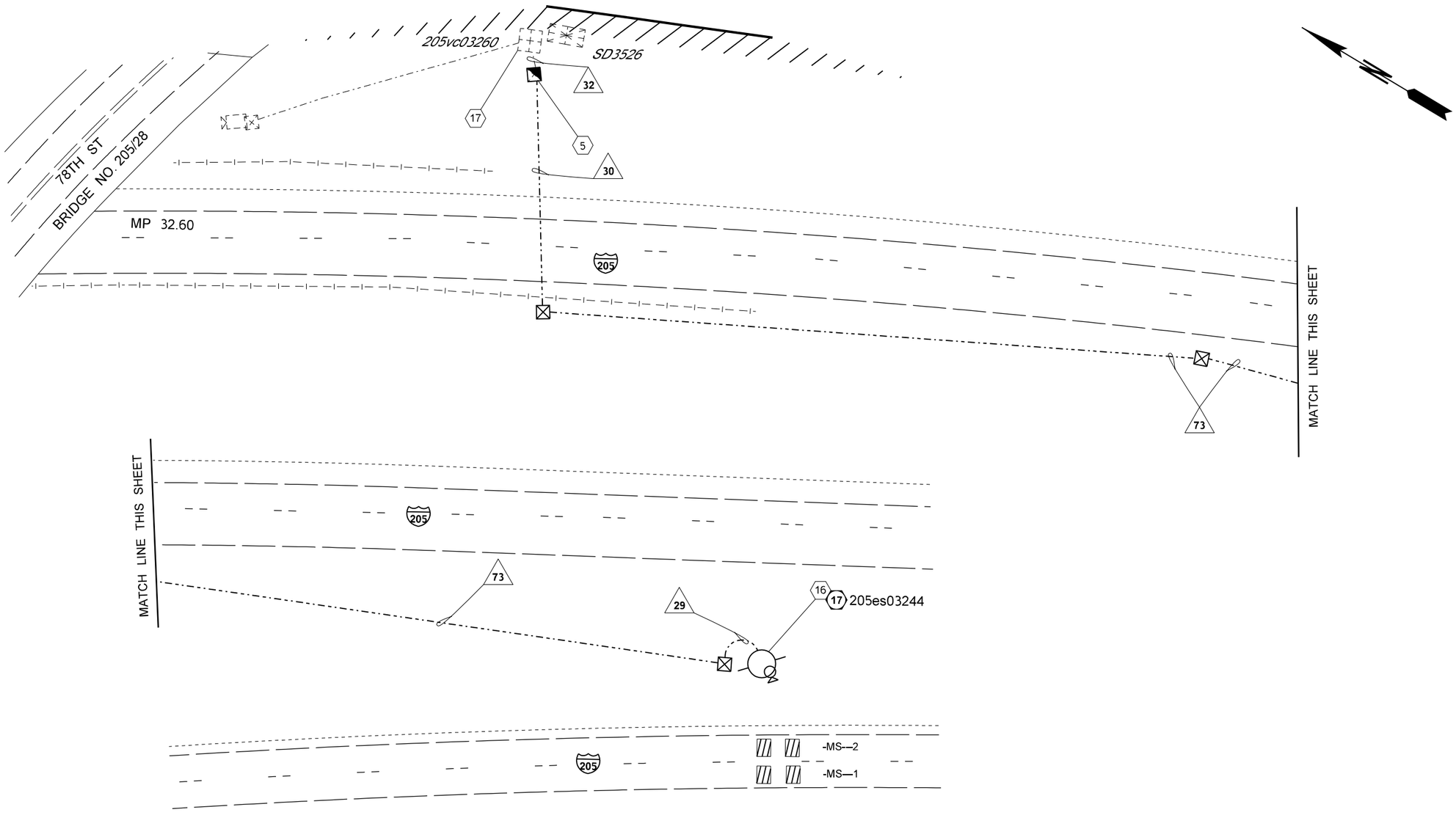
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 35

PLAN REF NO
ITS11

SHEET 39 OF 164 SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

PADDEN PKWY SYSTEM

0 25 50
SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn			
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DESIGNED BY	M. FUEST			
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CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

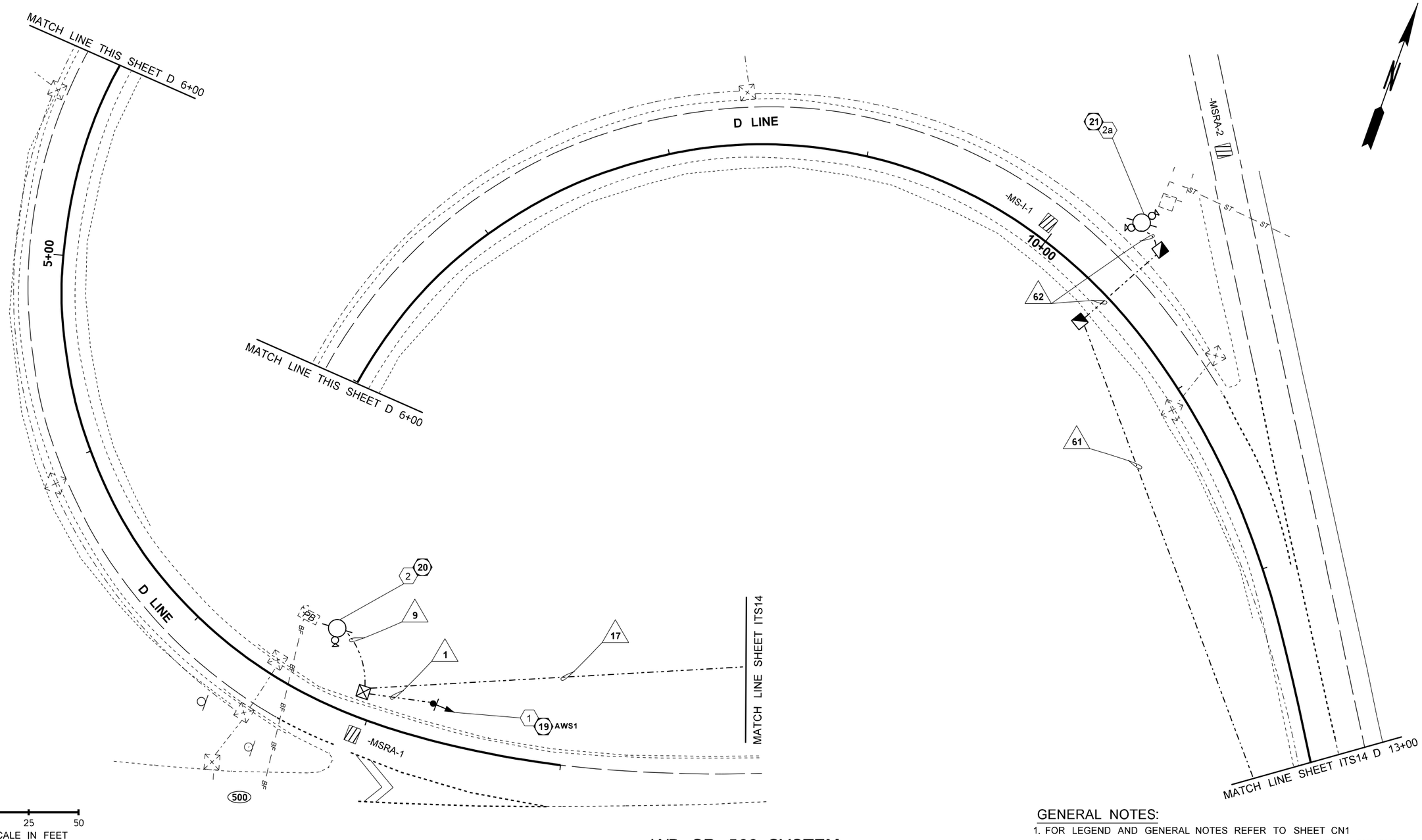
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 13
PLAN REF NO
ITS12
SHEET 40 OF 164 SHEETS



WB SR 500 SYSTEM
S5 03098

GENERAL NOTES:
1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn			
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DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

SEE SHEET CT1
DATE
P.E. STAMP BOX

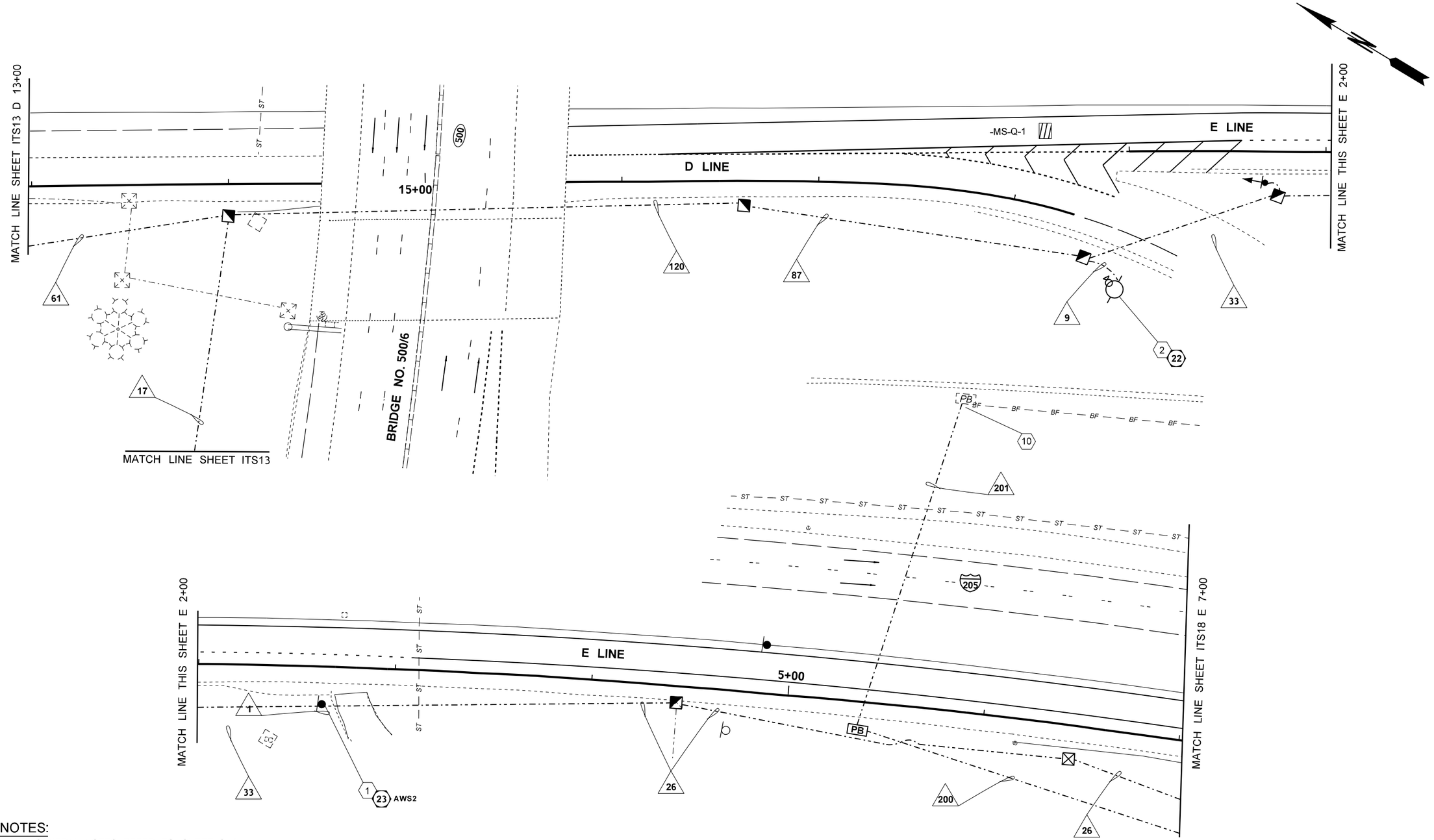
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 15
PLAN REF NO
ITS13
SHEET 41 OF 164 SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

0 25 50
SCALE IN FEET

WB SR 500 SYSTEM

S5 03098/CD 03165

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn			
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DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA D. HARWOOD
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

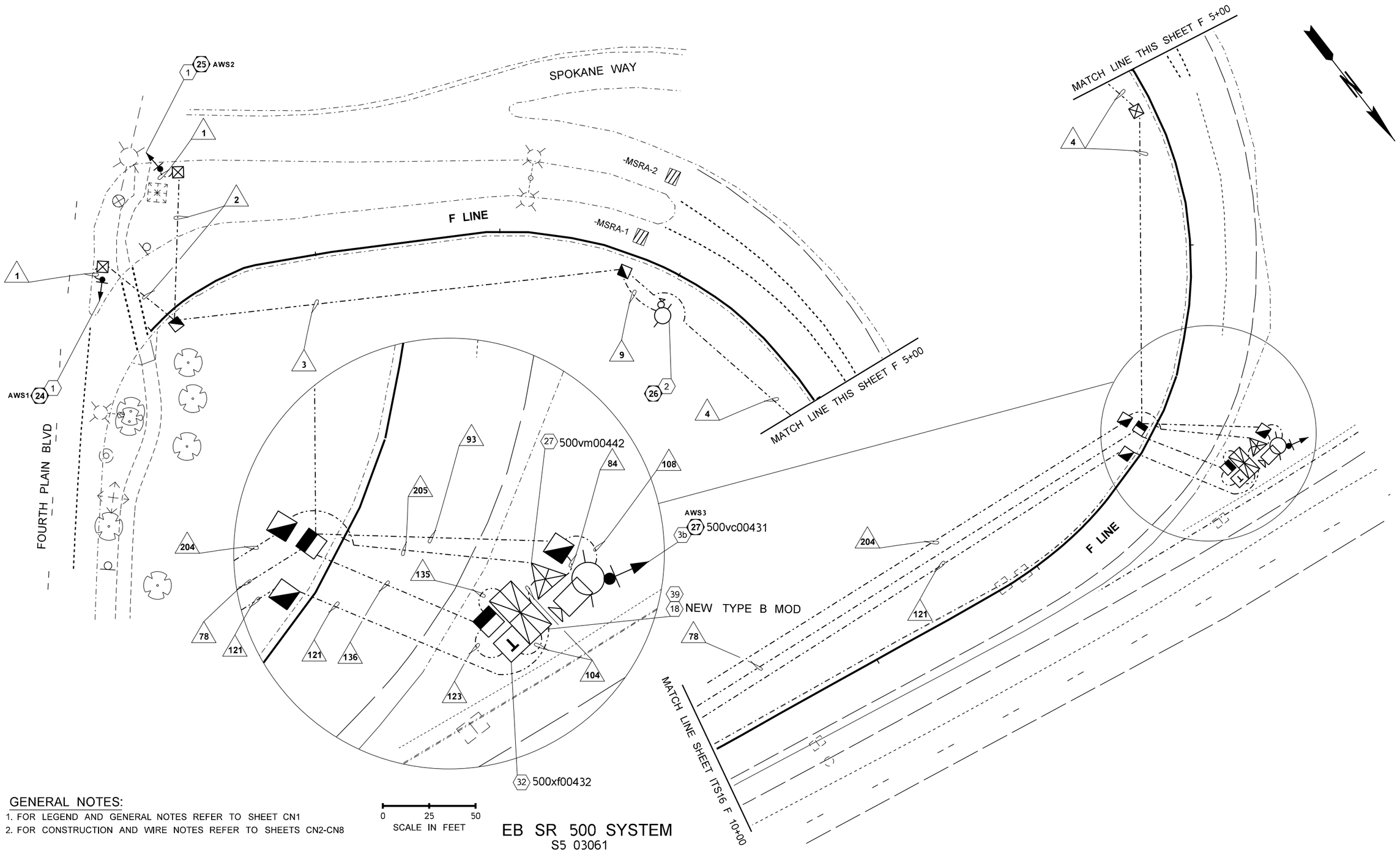
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 16
PLAN REF NO
ITS14
SHEET 42 OF 164 SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

0 25 50
SCALE IN FEET

EB SR 500 SYSTEM
S5 03061

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn			
TIME	9:56:22 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

SEE SHEET CT1
DATE
P.E. STAMP BOX

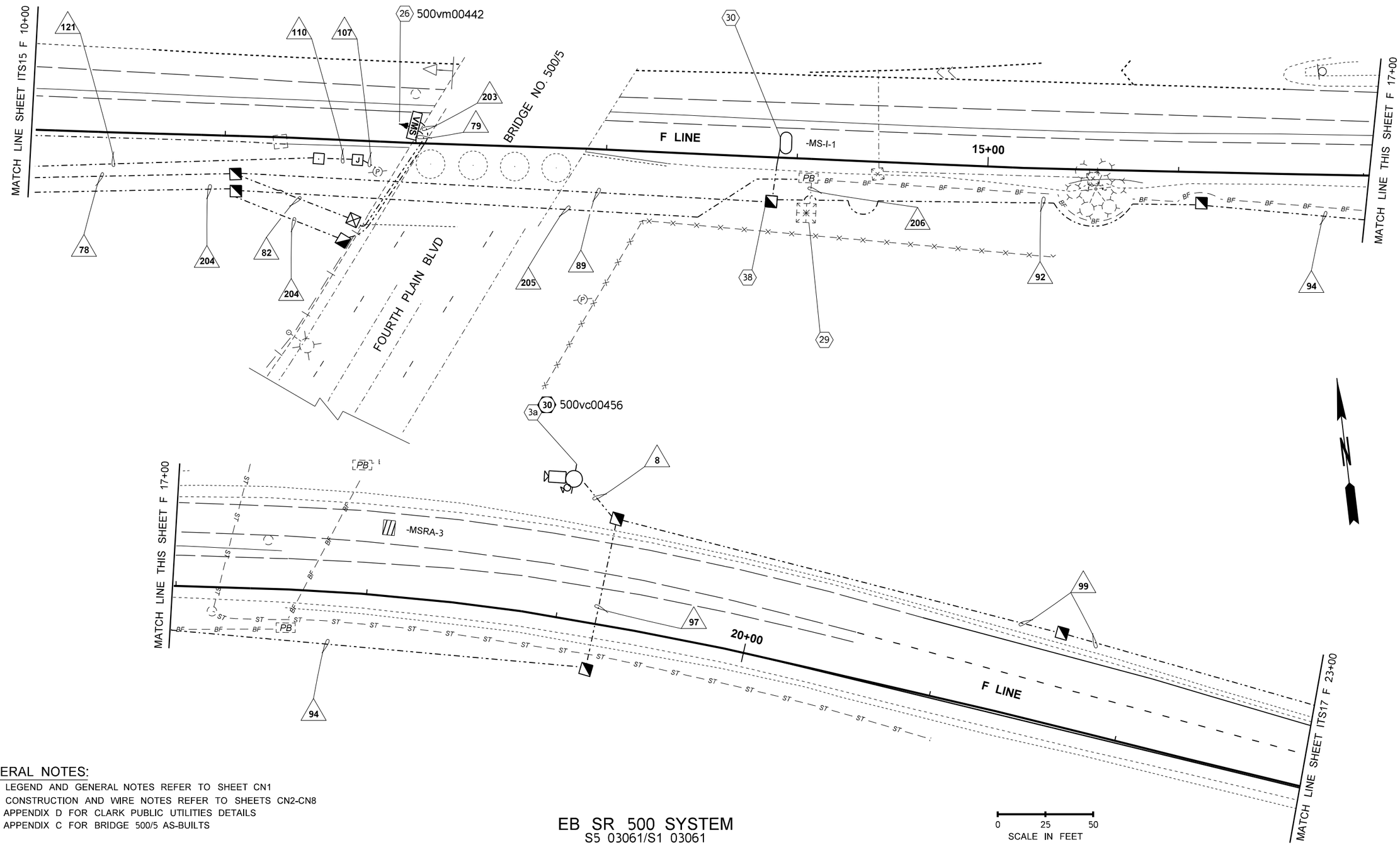
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 17
PLAN REF NO
ITS15
SHEET 43 OF 164 SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8
3. SEE APPENDIX D FOR CLARK PUBLIC UTILITIES DETAILS
4. SEE APPENDIX C FOR BRIDGE 500/5 AS-BUILTS

EB SR 500 SYSTEM

S5 03061/S1 03061

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn			
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PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

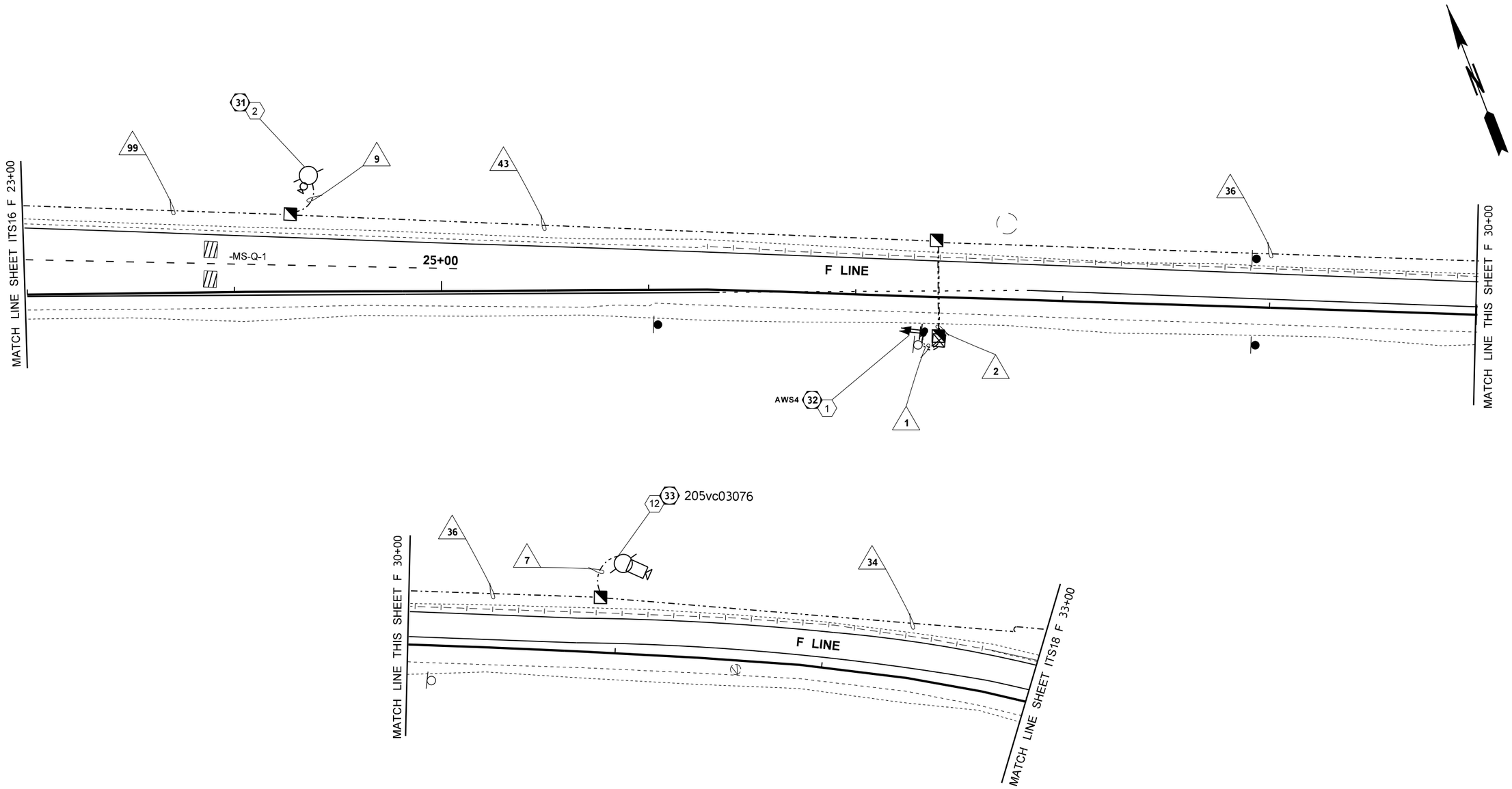
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 18
PLAN REF NO ITS16
SHEET 44 OF 164 SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

EB SR 500 SYSTEM
S1 03061

0 25 50
SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn			
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DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

SEE SHEET CT1
DATE
P.E. STAMP BOX

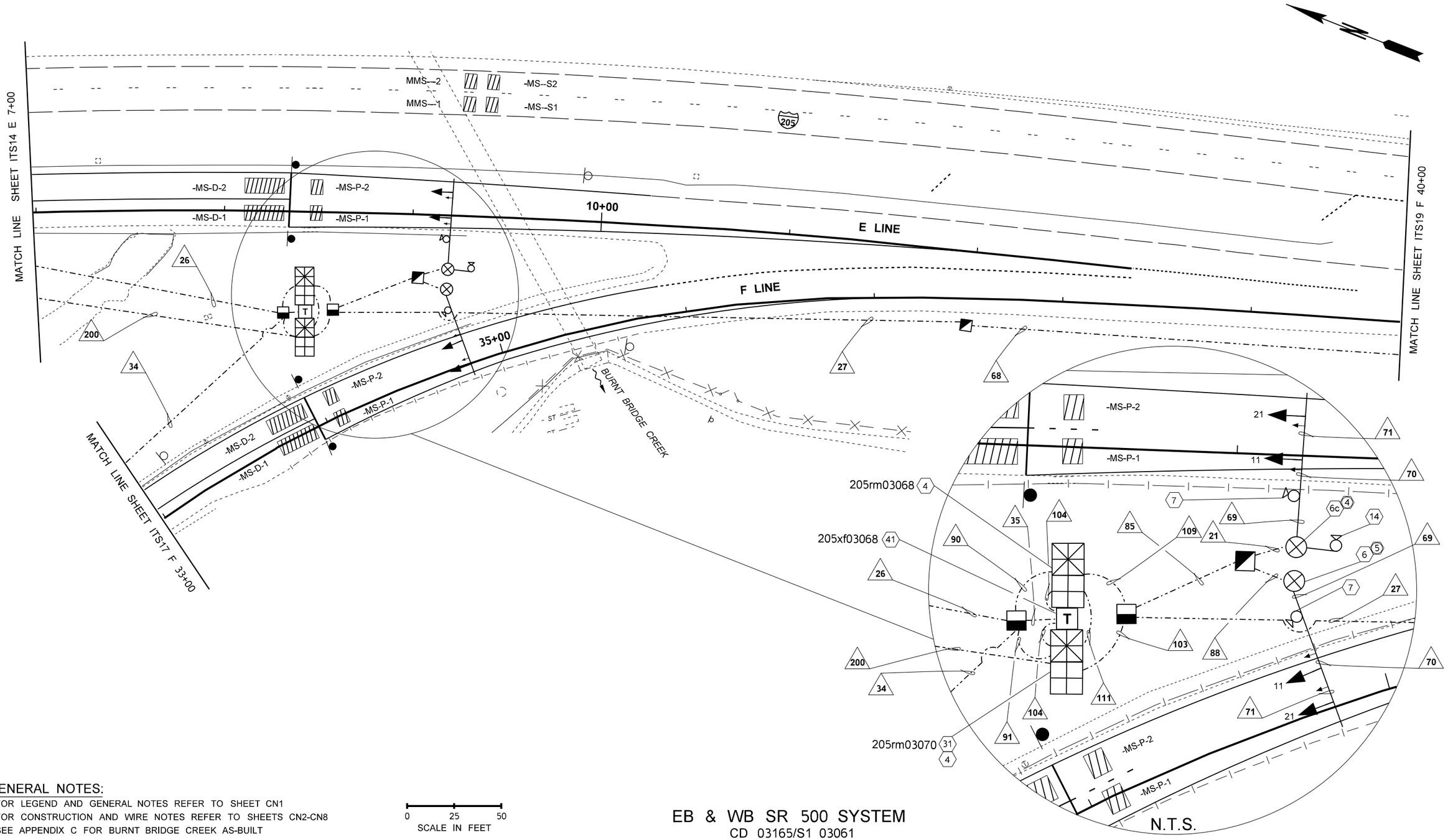
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 19
PLAN REF NO
ITS17
SHEET 45 OF 164 SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8
3. SEE APPENDIX C FOR BURNT BRIDGE CREEK AS-BUILT

0 25 50
SCALE IN FEET

EB & WB SR 500 SYSTEM

CD 03165/S1 03061

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn						
TIME	9:57:04 AM				REGION NO.	STATE	FED.AID PROJ.NO.
DATE	11/1/2022				10	WASH	STP-2051(287)
PLOTTED BY	fuestm				JOB NUMBER		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST				22X332		
ENTERED BY	M. FUEST				CONTRACT NO.		LOCATION NO.
CHECKED BY	K. WACHTER						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA D HARWOOD-DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

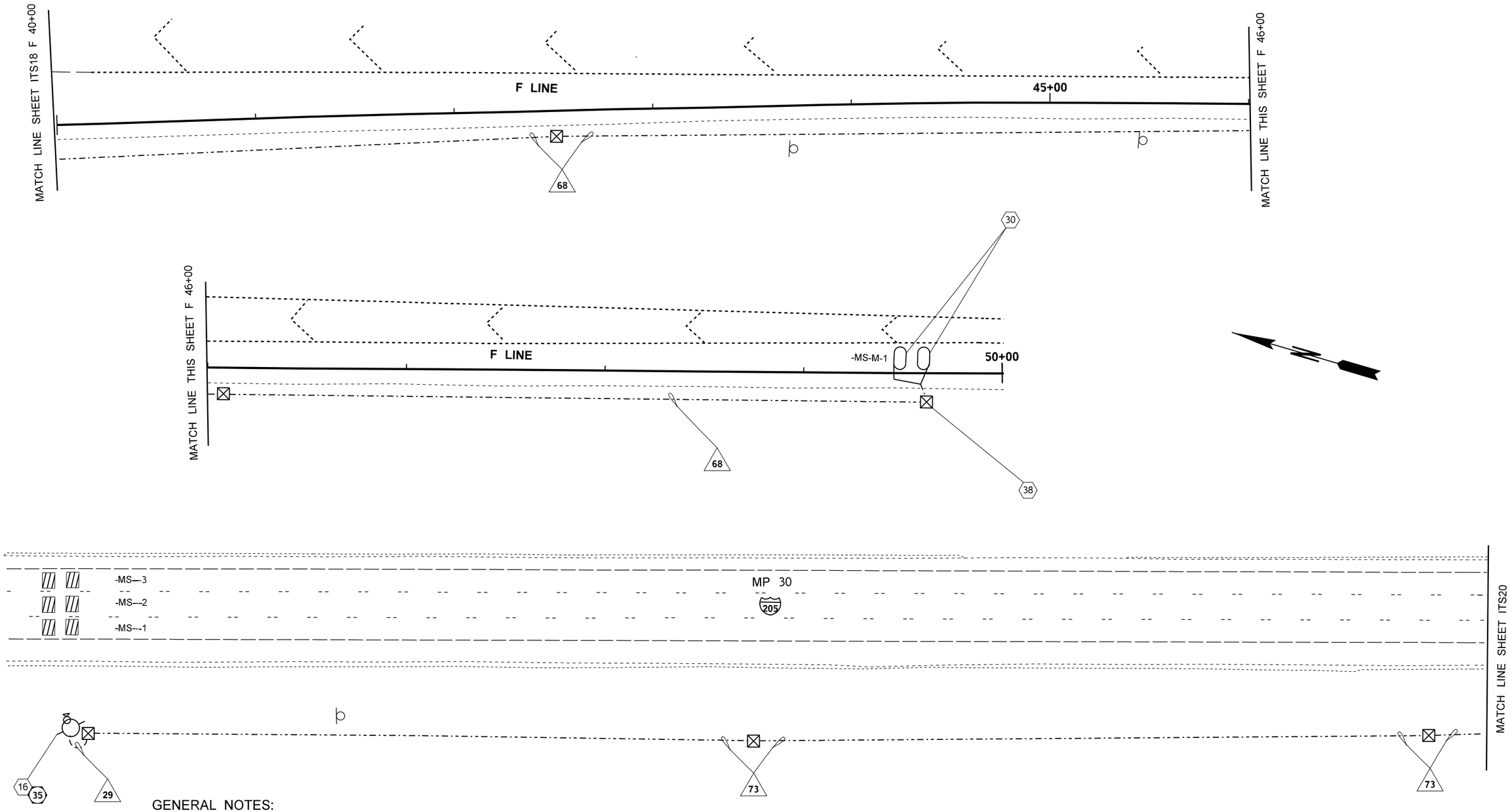
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 36
PLAN REF NO
ITS18
SHEET 46 OF 164 SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

SR 500 SYSTEM
S1 03061

0 25 50
SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn			
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DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

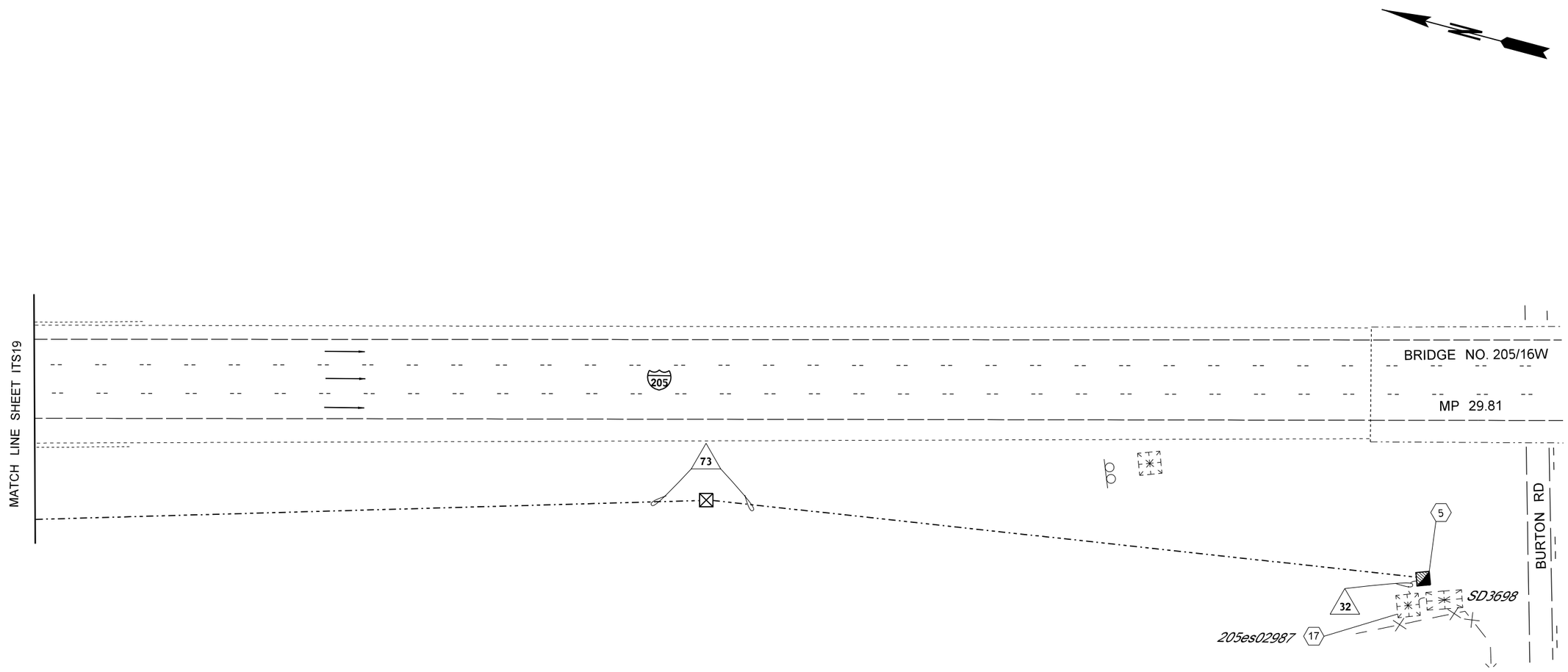
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 20
PLAN REF NO
ITS19
SHEET 47 OF 164 SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

SR 500 SYSTEM

0 25 50
SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn			
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PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

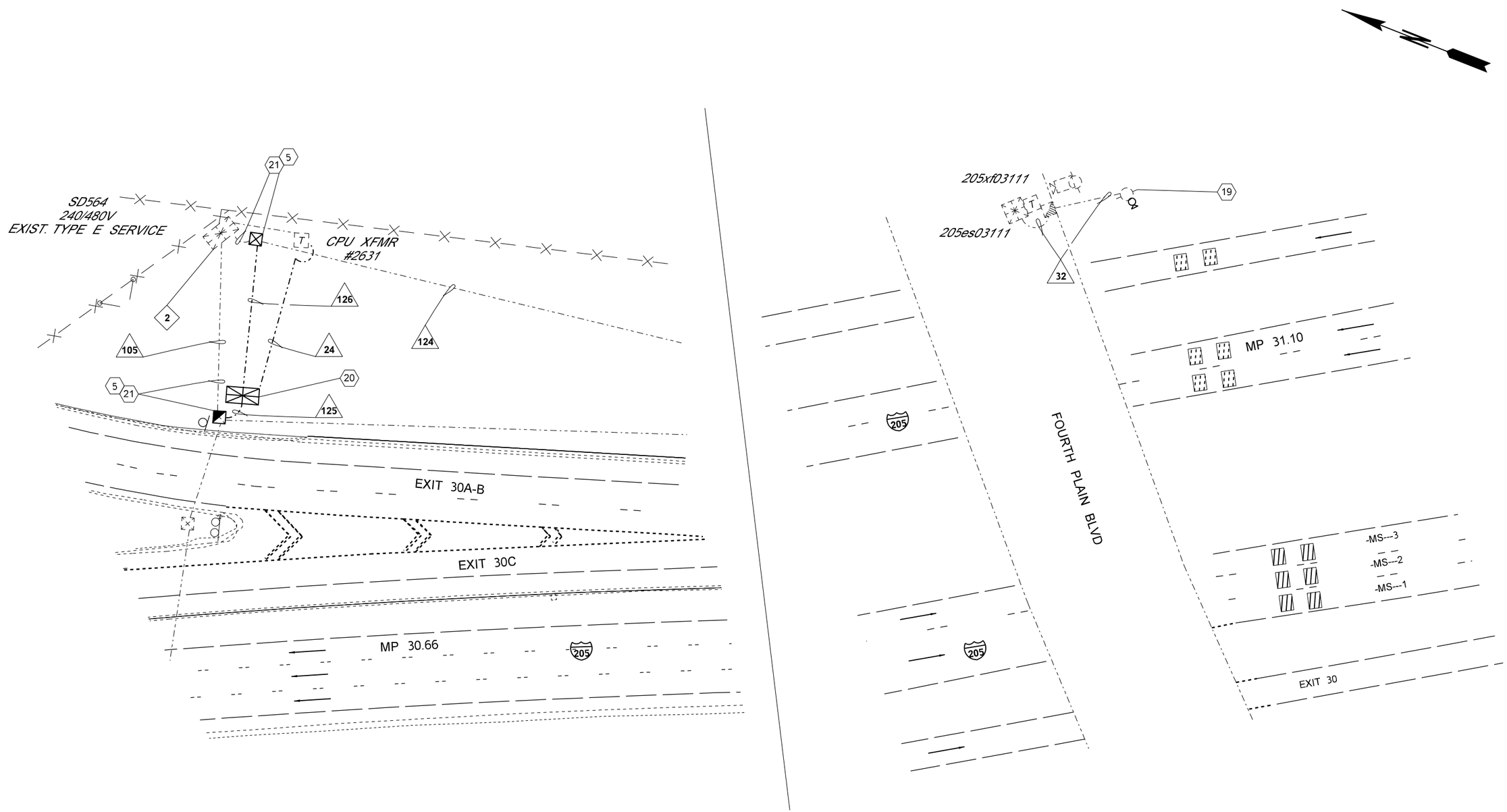
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 21
PLAN REF NO
ITS20
SHEET 48 OF 164 SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8
3. SEE APPENDIX D FOR CPU REPLACEMENT DETAILS

SR 500 SYSTEM

0 25 50
SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn						
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DATE	11/1/2022						
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DESIGNED BY	M. FUEST						
ENTERED BY	M. FUEST						
CHECKED BY	K. WACHTER				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA D. HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

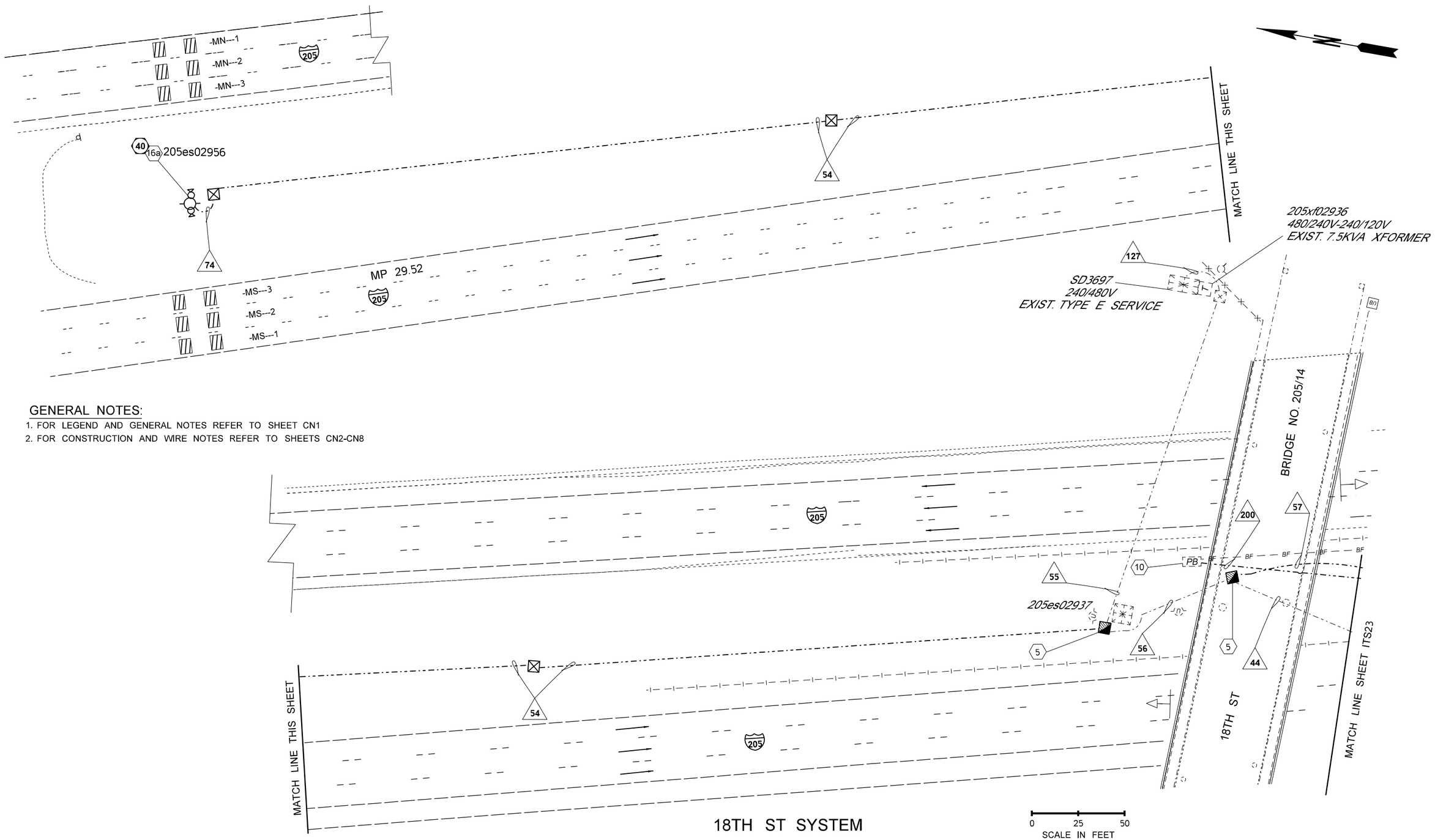
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 29
PLAN REF NO
ITS21
SHEET 49 OF 164 SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn
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CHECKED BY	K. WACHTER
PROJ. ENGR.	M. HARWOOD
REGIONAL ADM.	C. FRANCIS

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA O. HARWOOD-DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

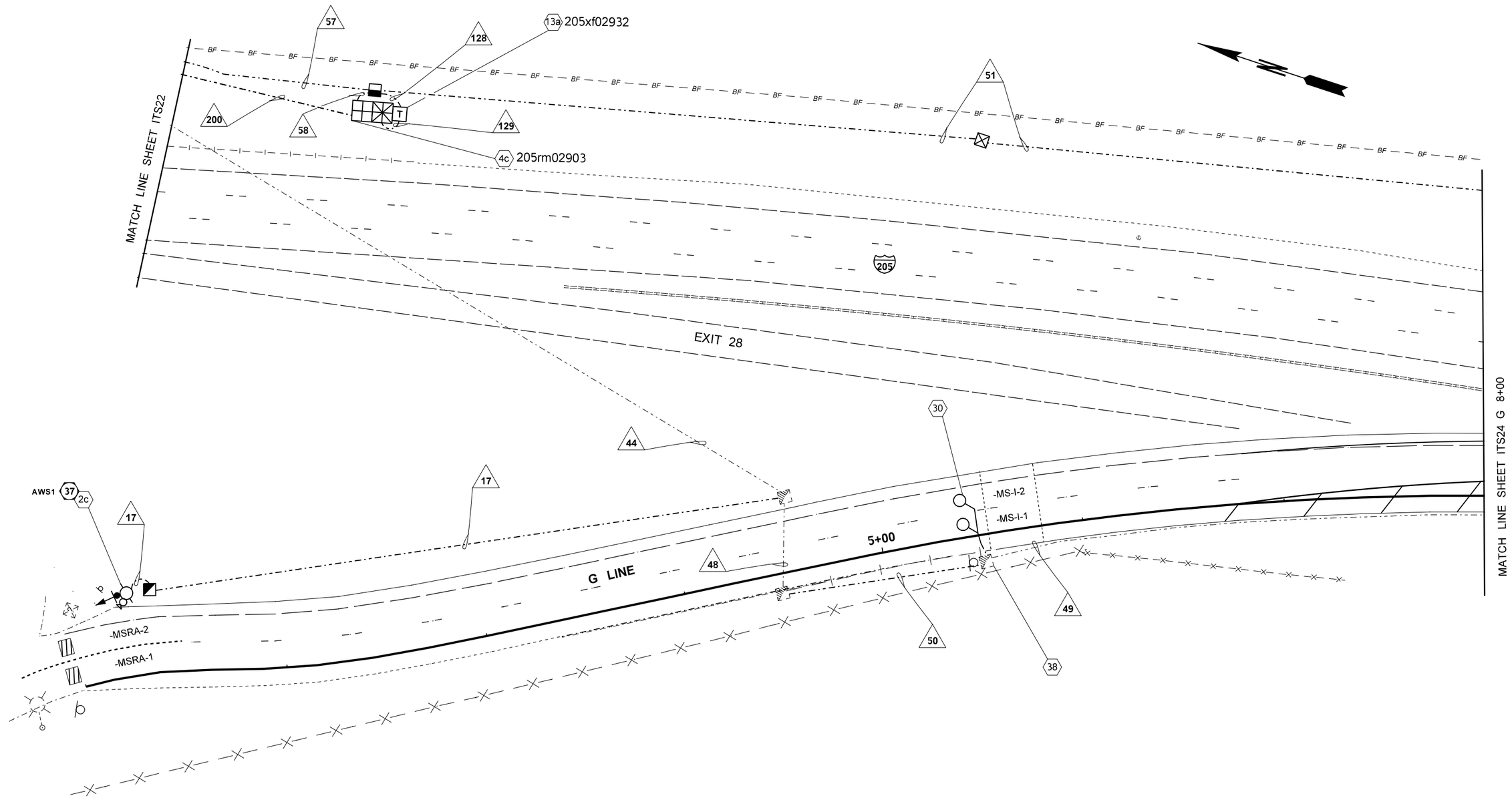
I-5/NB FOURTH PLAIN ON-RAMP I-205/SB 134TH ST TO MILL PLAIN RAMP METERS

ITS PLAN

Plot 25

PLAN REF NO
ITS22

SHEET 50 OF 164 SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

18TH ST SYSTEM
S1 02881

0 25 50
SCALE IN FEET

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DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

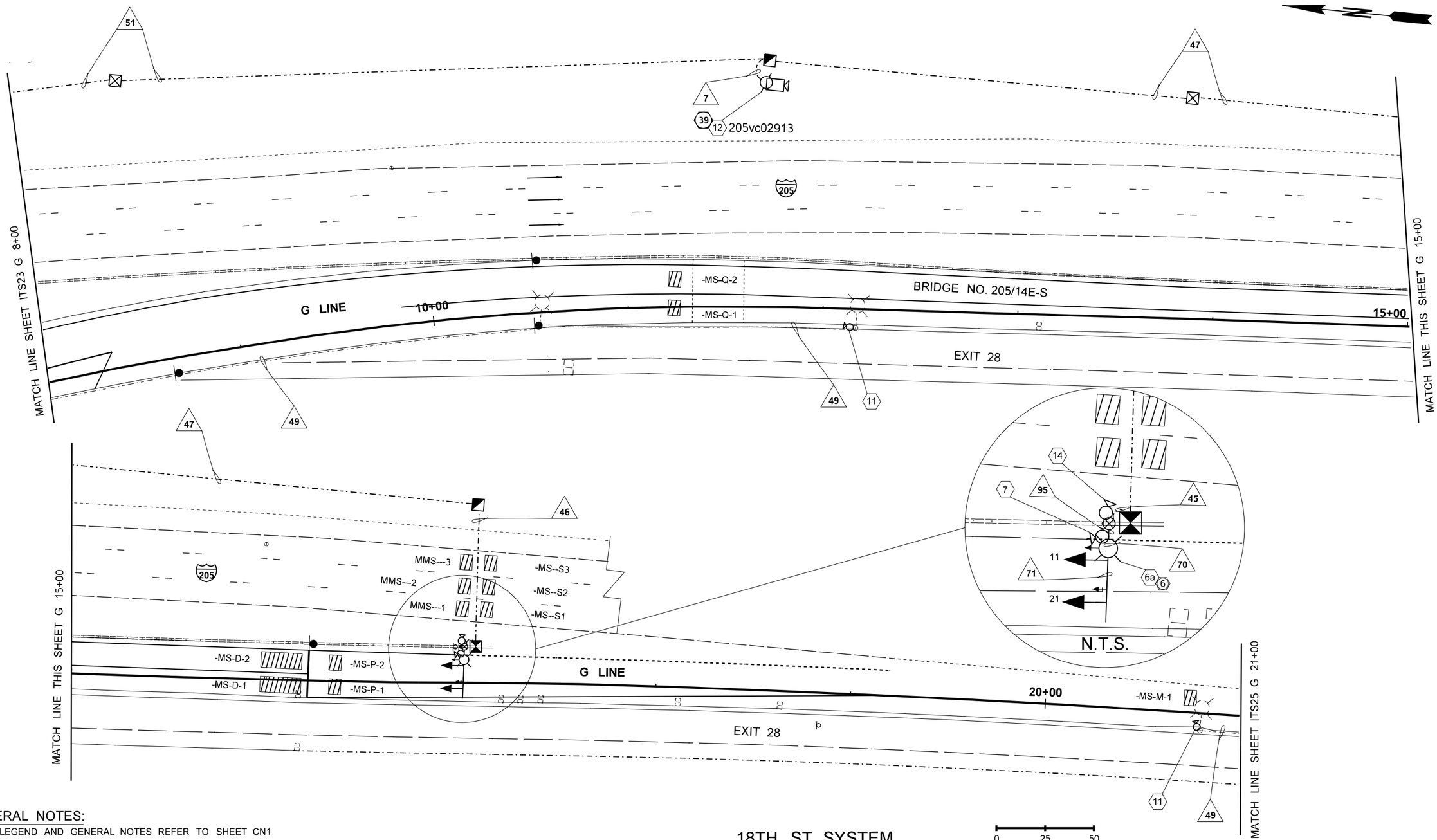
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 22
PLAN REF NO
ITS23
SHEET 51 OF 164 SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

18TH ST SYSTEM
S1 02881

0 25 50
SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn						
TIME	9:56:35 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
DATE	11/1/2022						
PLOTTED BY	fuestm						
DESIGNED BY	M. FUEST				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
ENTERED BY	M. FUEST						
CHECKED BY	K. WACHTER				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

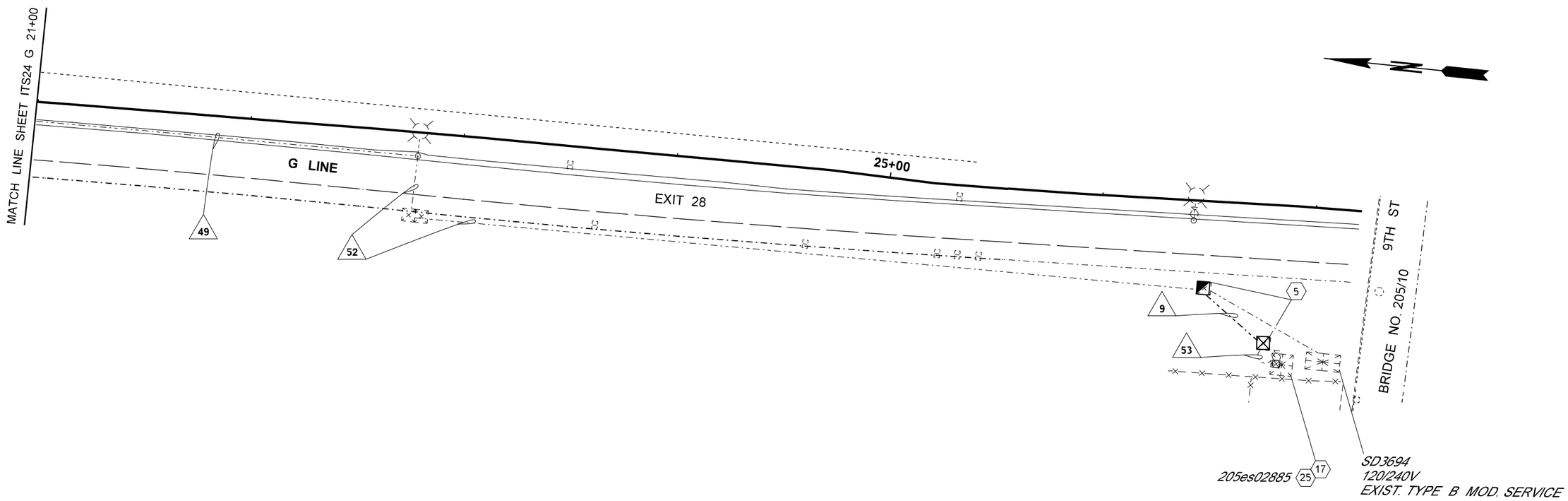
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 23
PLAN REF NO
ITS24
SHEET 52 OF 164 SHEETS



18TH ST SYSTEM
S1 02881

0 25 50
SCALE IN FEET

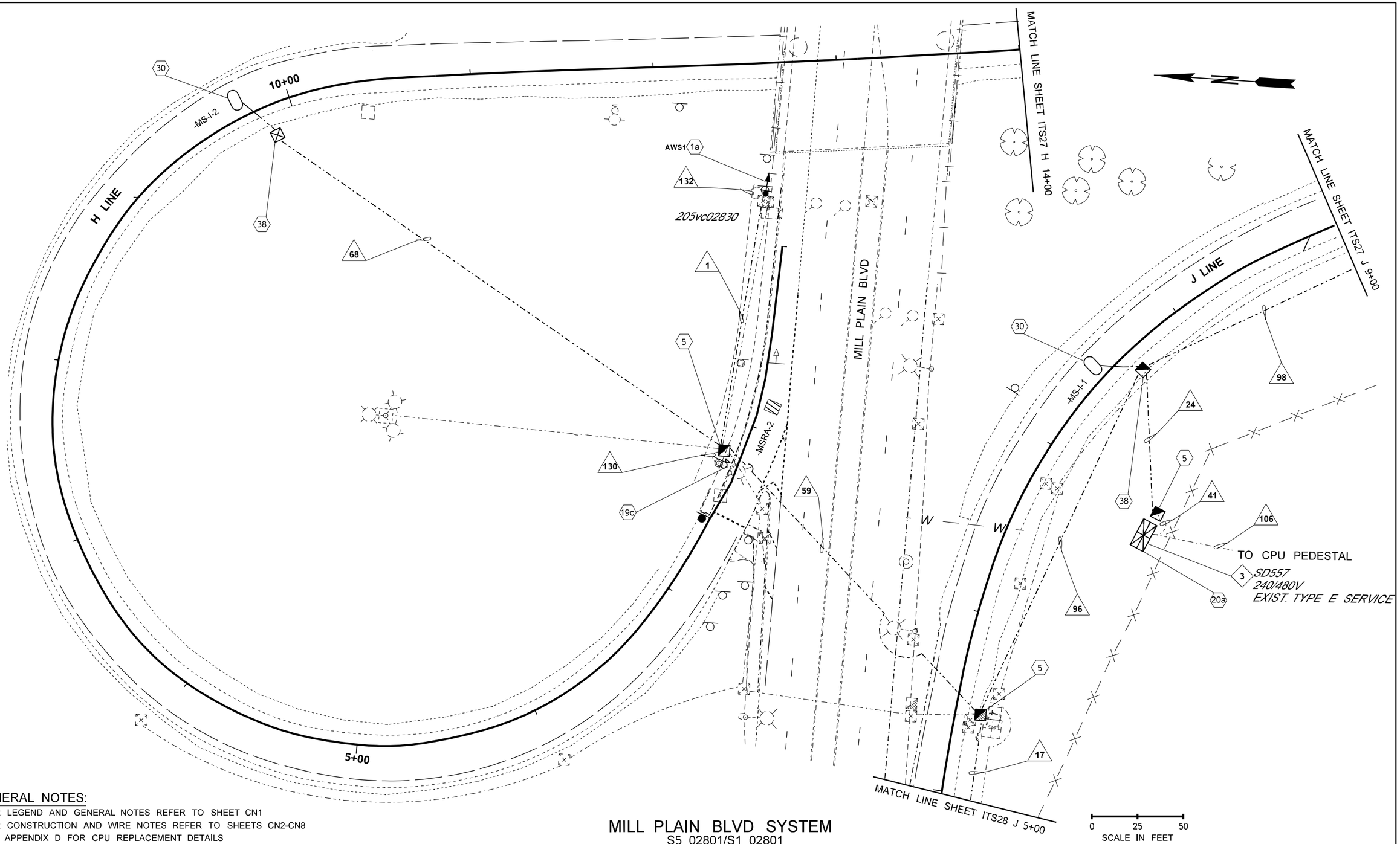
FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn				REGION NO.	STATE	FED.AID PROJ.NO.		Washington State Department of Transportation	I-5/NB FOURTH PLAIN ON-RAMP I-205/SB 134TH ST TO MILL PLAIN RAMP METERS	Plot 24
TIME	9:56:39 AM				10	WASH	STP-2051(287)				PLAN REF NO ITS25
DATE	11/1/2022				JOB NUMBER		CRRSAA(UL)-0051(318)				
PLOTTED BY	fuestm				22X332						SHEET 53 OF 164 SHEETS
DESIGNED BY	M. FUEST				CONTRACT NO.		LOCATION NO.				
ENTERED BY	M. FUEST										
CHECKED BY	K. WACHTER										
PROJ. ENGR.	M. HARWOOD										
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY							

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

ITS PLAN



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8
3. SEE APPENDIX D FOR CPU REPLACEMENT DETAILS

MILL PLAIN BLVD SYSTEM

S5 02801/S1 02801

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn				REGION NO.	STATE	FED.AID PROJ.NO.		Plot 26
TIME	9:56:43 AM				10	WASH	STP-2051(287)	Washington State Department of Transportation	PLAN REF NO ITS26
DATE	11/1/2022				JOB NUMBER		CRRSAA(UL)-0051(318)	I-5/NB FOURTH PLAIN ON-RAMP I-205/SB 134TH ST TO MILL PLAIN RAMP METERS	SHEET 54 OF 164 SHEETS
PLOTTED BY	fuestm				22X332				
DESIGNED BY	M. FUEST				CONTRACT NO.		LOCATION NO.		
ENTERED BY	M. FUEST								
CHECKED BY	K. WACHTER								
PROJ. ENGR.	M. HARWOOD								
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY					

MONICA D. HARWOOD-DUNCAN, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

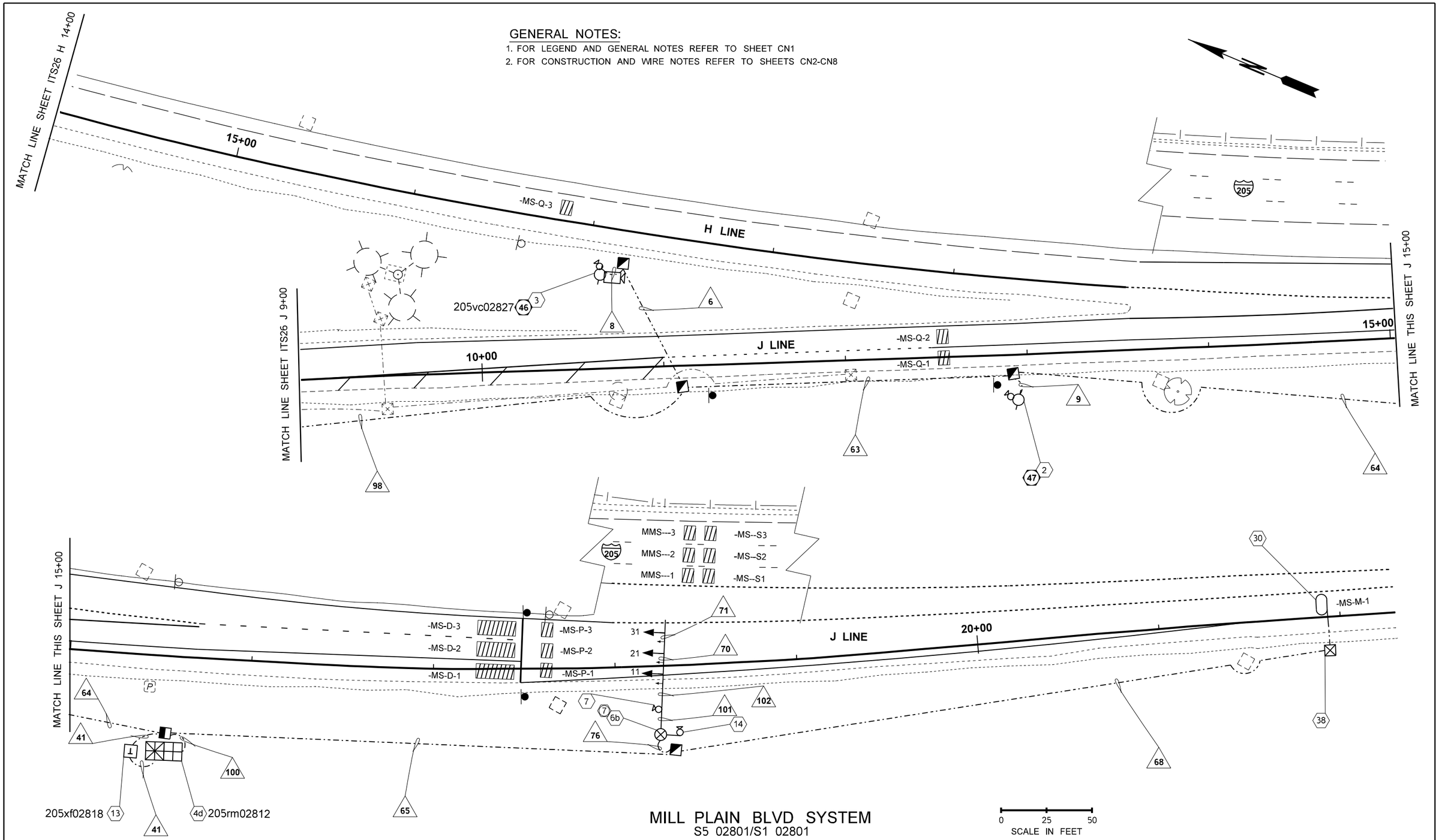
DATE

P.E. STAMP BOX

ITS PLAN

GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8



MILL PLAIN BLVD SYSTEM

S5 02801/S1 02801

0 25 50
SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn						
TIME	9:56:44 AM				REGION NO.	STATE	FED.AID PROJ.NO.
DATE	11/1/2022				10	WASH	STP-2051(287)
PLOTTED BY	fuestm				JOB NUMBER		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST				22X332		
ENTERED BY	M. FUEST				CONTRACT NO.		LOCATION NO.
CHECKED BY	K. WACHTER						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA O. HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

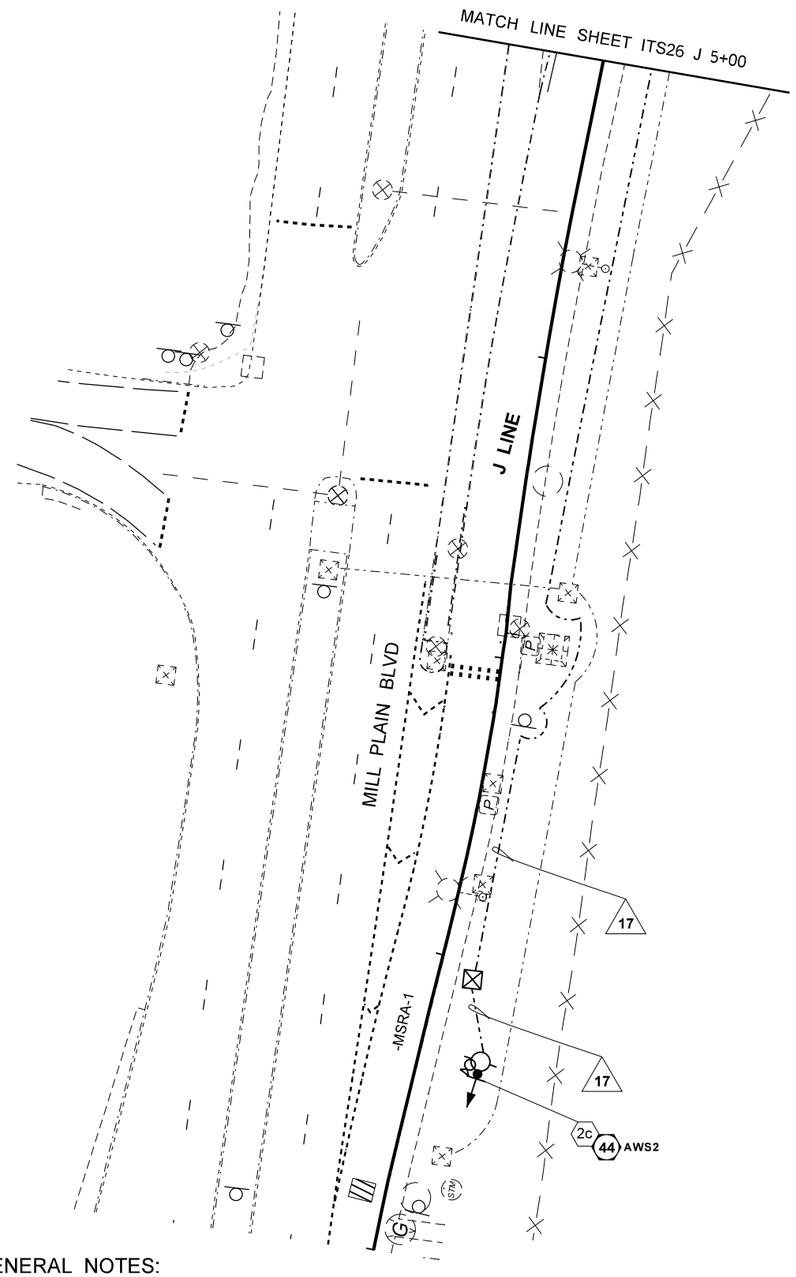
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN RAMP METERS

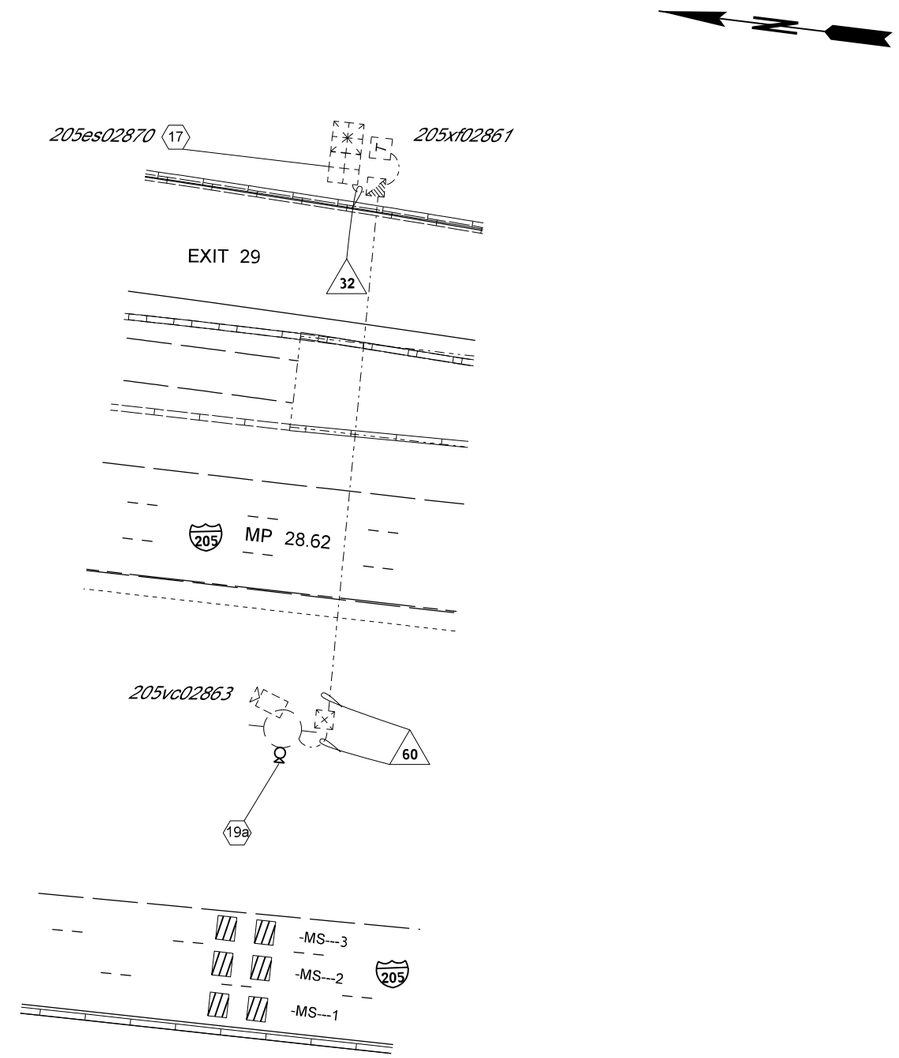
ITS PLAN

Plot 27

PLAN REF NO
ITS27

SHEET 55 OF 164 SHEETS





GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

MILL PLAIN BLVD SYSTEM
S1 02801

0 25 50
SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
TIME	9:56:47 AM						
DATE	11/1/2022						
PLOTTED BY	fuestm				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST						
ENTERED BY	M. FUEST						
CHECKED BY	K. WACHTER				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA AO HARWOOD DINGMAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

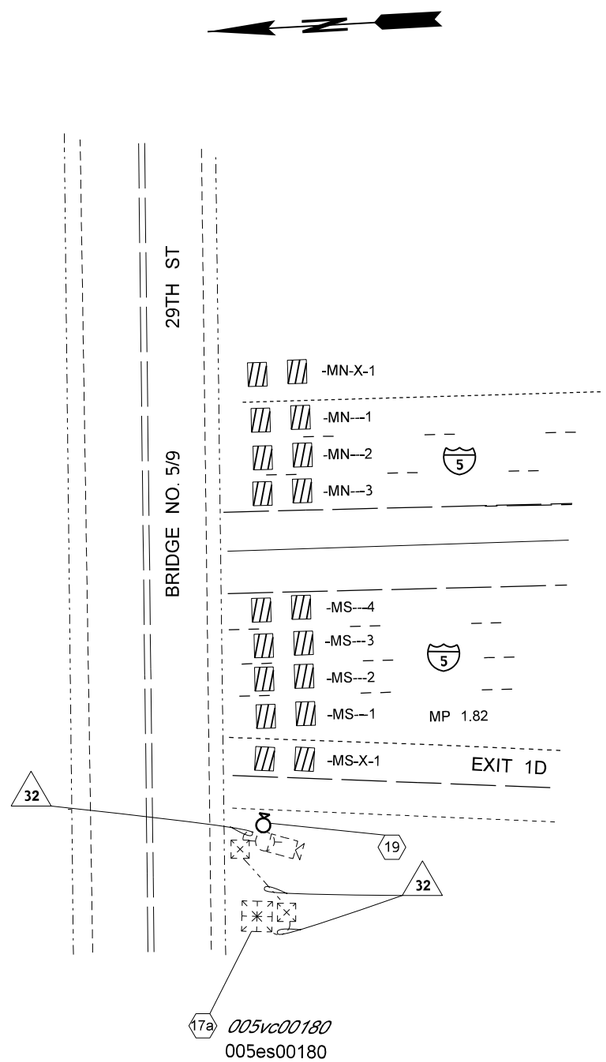
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 28
PLAN REF NO
ITS28
SHEET 56 OF 164 SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

0 25 50
SCALE IN FEET

4TH PLAIN BLVD SYSTEM

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	9:56:58 AM				10	WASH	STP-2051(287)
DATE	11/1/2022				JOB NUMBER		CRRSAA(UL)-0051(318)
PLOTTED BY	fuestm				22X332		
DESIGNED BY	M. FUEST				CONTRACT NO.		LOCATION NO.
ENTERED BY	M. FUEST						
CHECKED BY	K. WACHTER						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED
PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

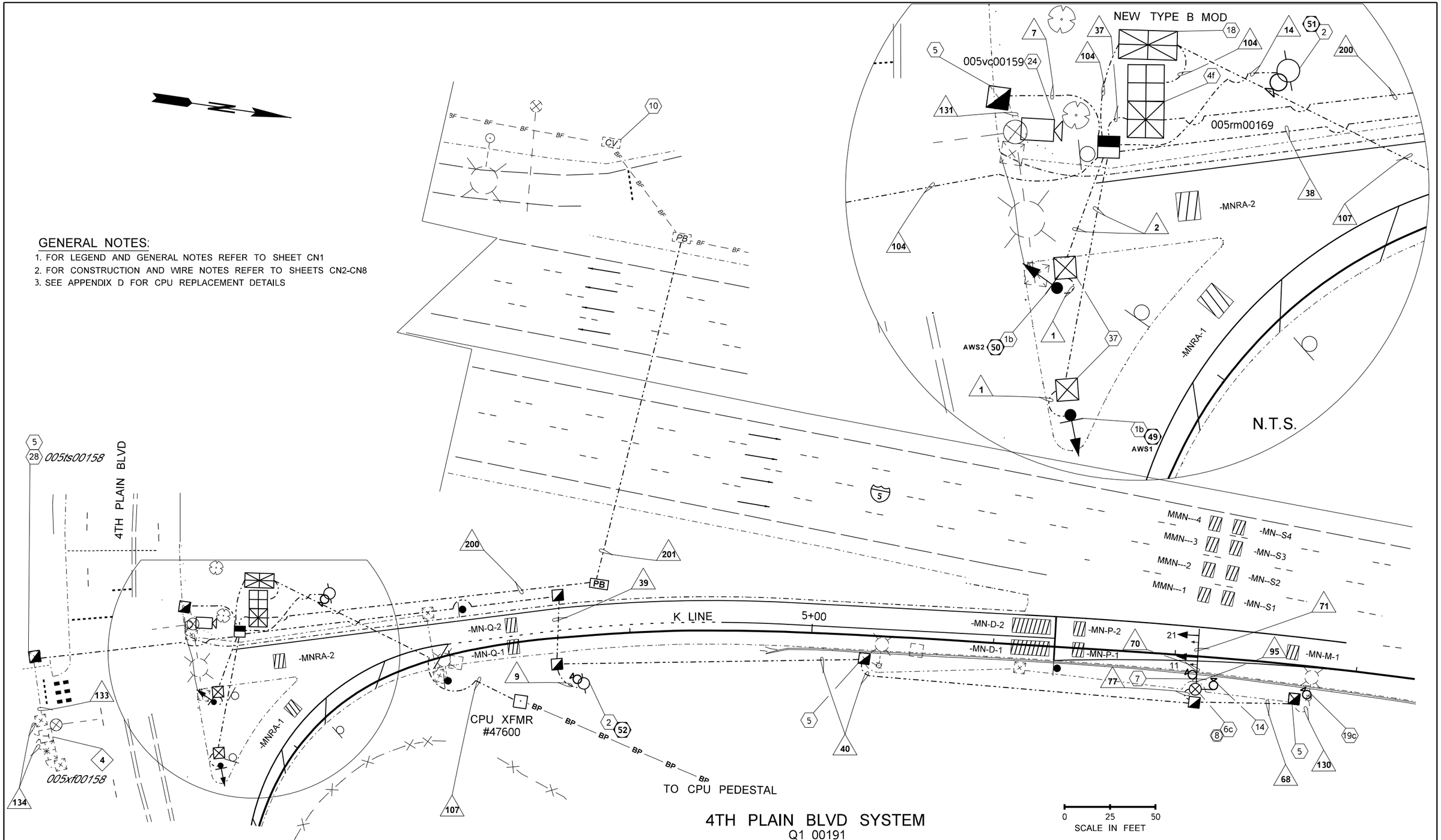
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 33
PLAN REF NO
ITS29
SHEET
57
OF
164
SHEETS

GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8
3. SEE APPENDIX D FOR CPU REPLACEMENT DETAILS



4TH PLAIN BLVD SYSTEM

Q1 00191

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn						
TIME	9:56:54 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
DATE	11/1/2022						
PLOTTED BY	fuestm				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST						
ENTERED BY	M. FUEST				CONTRACT NO.		LOCATION NO.
CHECKED BY	K. WACHTER						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA D. HARWOOD-DUNCAN, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

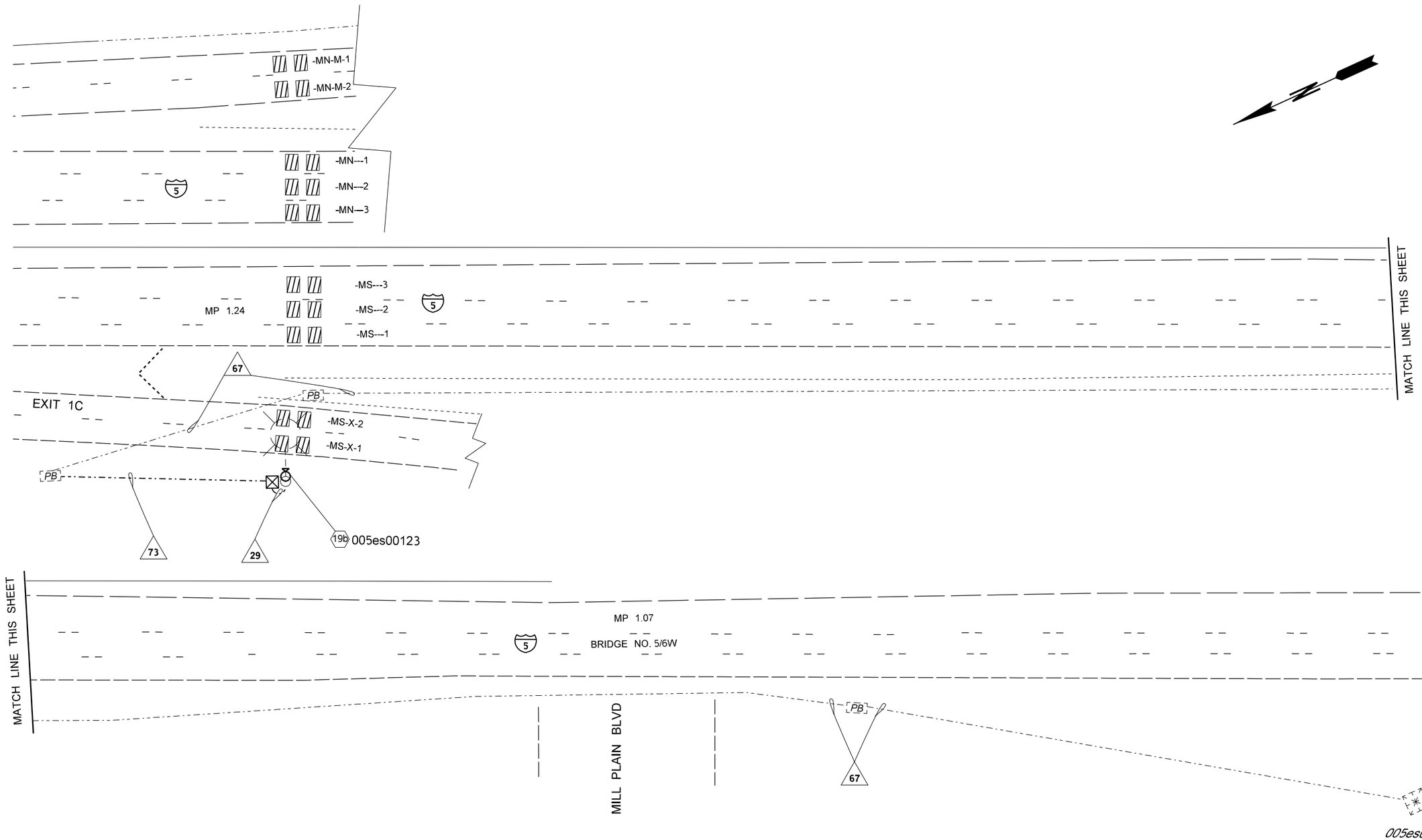
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 31

PLAN REF NO ITS30

SHEET 58 OF 164 SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

4TH PLAIN BLVD SYSTEM

0 25 50
SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - Base.dgn			
TIME	9:56:56 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 32
PLAN REF NO
ITS31
SHEET 59 OF 164 SHEETS

CABINET INPUT WIRE TERMINATIONS

INPUT FILE		TB2		DETECTOR ID
DET. 1	I1-D	TB2-1	B	
I1-U	I1-E	TB2-2	W	
DET. 2	I1-J	TB2-3	B	
I1-L	I1-K	TB2-4	W	
DET. 3	I2-D	TB2-5	B	
I2-U	I2-E	TB2-6	W	
DET. 4	I2-J	TB2-7	B	
I2-L	I2-K	TB2-8	W	
DET. 5	I3-D	TB2-9	B	
I3-U	I3-E	TB2-10	W	
DET. 6	I3-J	TB2-11	B	
I3-L	I3-K	TB2-12	W	

DETECTOR ID		TB5		INPUT FILE	
	B	TB5-1	I10-D	DET. 19	
	W	TB5-2	I10-E	I10-U	
	B	TB5-3	I10-J	DET. 20	
	W	TB5-4	I10-K	I10-L	
	B	TB5-5	I11-D	DET. 21	
	W	TB5-6	I11-E	I11-U	
	B	TB5-7	I11-J	DET. 22	
	W	TB5-8	I11-K	I11-L	
	B	TB5-9	I12-D	DET. 23	
	W	TB5-10	I12-E	I12-U	
	B	TB5-11	I12-J	DET. 24	
	W	TB5-12	I12-K	I12-L	

INPUT FILE		TB3		
DET. 7	I4-D	TB3-1	B	
I4-U	I4-E	TB3-2	W	
DET. 8	I4-J	TB3-3	B	
I4-L	I4-K	TB3-4	W	
DET. 9	I5-D	TB3-5	B	
I5-U	I5-E	TB3-6	W	
DET. 10	I5-J	TB3-7	B	
I5-L	I5-K	TB3-8	W	
DET. 11	I6-D	TB3-9	B	
I6-U	I6-E	TB3-10	W	
DET. 12	I6-J	TB3-11	B	
I6-L	I6-K	TB3-12	W	

		TB6		INPUT FILE	
	B	TB6-1	I13-D	DET. 25	
	W	TB6-2	I13-E	I13-U	
	B	TB6-3	I13-J	DET. 26	
	W	TB6-4	I13-K	I13-L	
	B	TB6-5	I14-D	DET. 27	
	W	TB6-6	I14-E	I14-U	
	B	TB6-7	I14-J	DET. 28	
	W	TB6-8	I14-K	I14-L	
	B	TB6-9	J1-D	DET. 29	
	W	TB6-10	J1-E	J1-U	
	B	TB6-11	J1-J	DET. 30	
	W	TB6-12	J1-K	J1-L	

INPUT FILE		TB4		
DET. 13	I7-D	TB4-1	B	
I7-U	I7-E	TB4-2	W	
DET. 14	I7-J	TB4-3	B	-MS-M-1
I7-L	I7-K	TB4-4	W	(BASE & A1)
DET. 15	I8-D	TB4-5	B	
I8-U	I8-E	TB4-6	W	
DET. 16	I8-J	TB4-7	B	
I8-L	I8-K	TB4-8	W	
DET. 17	I9-D	TB4-9	B	
I9-U	I9-E	TB4-10	W	
DET. 18	I9-J	TB4-11	B	
I9-L	I9-K	TB4-12	W	

		TB7		INPUT FILE	
	B	TB7-1	J2-D	DET. 31	
	W	TB7-2	J2-E	J2-U	
	B	TB7-3	J2-J	DET. 32	
	W	TB7-4	J2-K	J2-L	
	B	TB7-5	J3-D	DET. 33	
	W	TB7-6	J3-E	J3-U	
	B	TB7-7	J3-J	DET. 34	
	W	TB7-8	J3-K	J3-L	
	B	TB7-9	J4-D	DET. 35	
	W	TB7-10	J4-E	J4-U	
	B	TB7-11	J4-J	DET. 36	
	W	TB7-12	J4-K	J4-L	

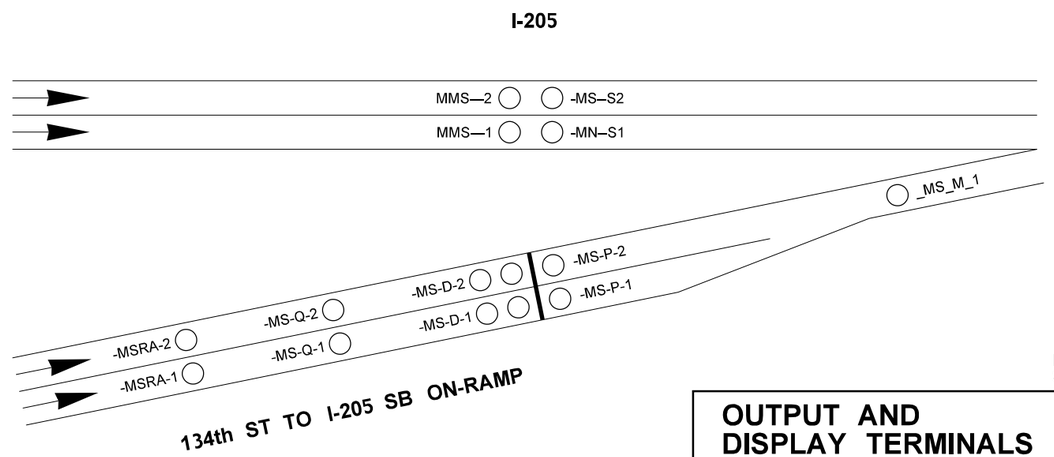
INPUT FILE		TB8		
DET. 37	J5-D	TB8-1	B	
J5-U	J5-E	TB8-2	W	
DET. 38	J5-J	TB8-3	B	
J5-L	J5-K	TB8-4	W	
DET. 39	J6-D	TB8-5	B	
J6-U	J6-E	TB8-6	W	
DET. 40	J6-J	TB8-7	B	
J6-L	J6-K	TB8-8	W	
NOT USED		TB8-9		
		TB8-10		
		TB8-11		
		TB8-12		

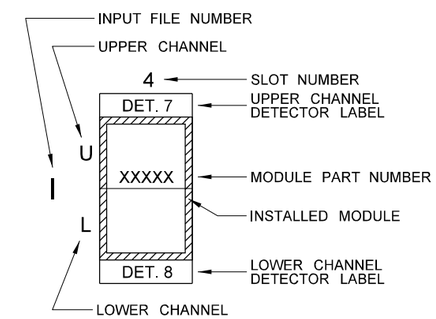
EVPs		TB9		INPUT FILE	
	Y	TB9-1	J13-D	EVP A J13-U	
	O	TB9-2	J13-E		
	BL/DR	TB9-3	J13-K		
	Y	TB9-4	J13-J	EVP B J13-L	
	O	TB9-5	J13-E		
	BL/DR	TB9-6	J13-K		
		TB9-7			
		TB9-8			
		TB9-9		NOT USED	
		TB9-10			
		TB9-11			
		TB9-12			

INPUT FILE LAYOUT AND MARKING DETAIL

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	MMS---2	MMS-–1	-MSRA-2	-MS-Q-2	-MS-D-2	-MS-P-2	-------	SPARE	SPARE	DET. 19	DET. 21	DET. 23	DET. 25	DET. 27
I U	CLICK 112	CLICK 112	CLICK 112	CLICK 112	CLICK 112	CLICK 112	LOOP DET. (BASE) CLICK 112 (A1&A2)	CLICK 112	LOOP DET. (BASE&A1) CLICK 112(A2)					
I L														
	-MS--S2	-MN–S1	-MSRA-1	-MS-Q-1	-MS-D-1	-MS-P-1	_MS_M_1	SPARE	SPARE	DET. 20	DET. 22	DET. 24	DET. 26	DET. 28
	DET. 29	DET. 31	DET. 33	DET. 35	DET. 37	DET. 39								
J U														
J L														
	DET. 30	DET. 32	DET. 34	DET. 36	DET. 38	DET. 40								

SLOTS J7 THROUGH J11 NOT USED





INPUT FILE SLOT LEGEND

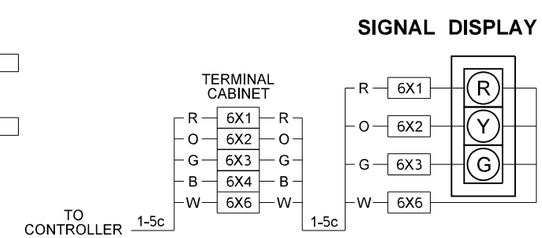
NOTE:
SLOTS LABELED WITH "000" SHALL REMAIN UNLABELED.

OUTPUT AND DISPLAY TERMINALS

T4

T4-7	611	R	
T4-8	612	O	11
T4-9	613	G	
T4-4	621	R	
T4-5	622	O	21
T4-6	623	G	
T4-1	631		
T4-2	632		
T4-3	633		

CABINET OUTPUT TERMINALS
BACK OF PDA #3LX



FIELD TERMINALS

NOTES:
1. CONTRACTOR SHALL PROVIDE ONE (1) 12" RS485 JUMBER CABLE PER CLICK CARD.
2. CONTRACTOR SHALL PROVIDE SIX (6) 3' CABLE FOR EVERY CLICK 656.

134TH ST

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn
TIME	9:19:11 AM
DATE	11/1/2022
PLOTTED BY	fuestm
DESIGNED BY	M. FUEST
ENTERED BY	K. WACHTER
CHECKED BY	S. MERCER
PROJ. ENGR.	M. HARWOOD
REGIONAL ADM.	C. FRANCIS

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. STP-2051(287)
JOB NUMBER 22X332 | CRRSAA(UL)-0051(318)
CONTRACT NO. | LOCATION NO.

SEE SHEET CT1 DATE
P.E. STAMP BOX

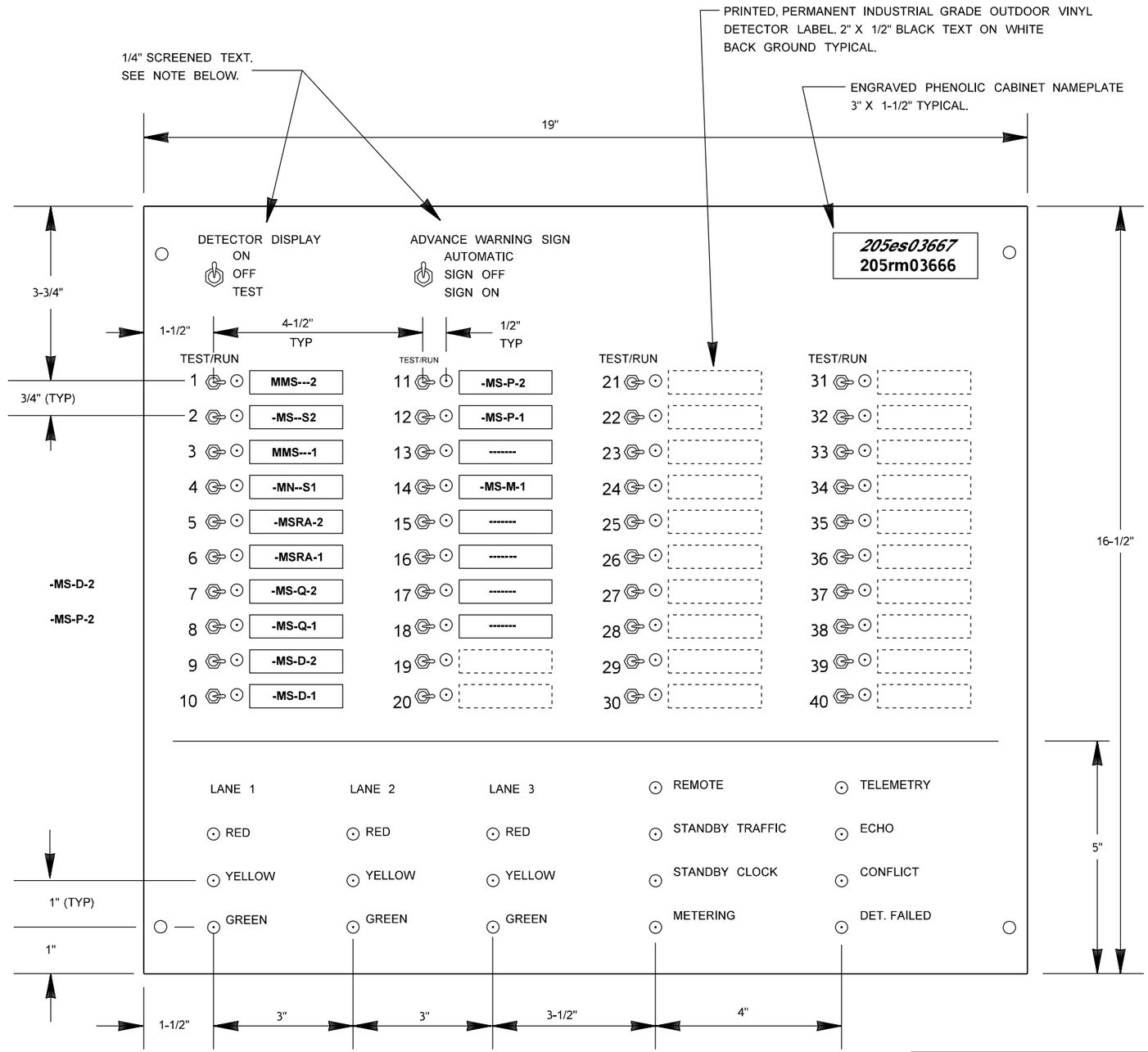
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 1
PLAN REF NO ITD1
SHEET 60 OF 164 SHEETS



UNLESS OTHERWISE NOTED, ALL TEXT SHALL BE SCREENED DIRECTLY ON THE PANEL. TEXT SHALL BE 1/4" MINIMUM.

134TH ST DISPLAY PANEL

NOT TO SCALE

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn			
TIME	9:19:12 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	K. WACHTER			
CHECKED BY	S. MERCER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 2
PLAN REF NO
ITD2
SHEET 61 OF 164 SHEETS

CABINET INPUT WIRE TERMINATIONS

INPUT	FILE	TB2		DETECTOR ID
DET. 1	I1-D	TB2-1	B	
I1-U	I1-E	TB2-2	W	
DET. 2	I1-J	TB2-3	B	
I1-L	I1-K	TB2-4	W	
DET. 3	I2-D	TB2-5	B	
I2-U	I2-E	TB2-6	W	
DET. 4	I2-J	TB2-7	B	
I2-L	I2-K	TB2-8	W	
DET. 5	I3-D	TB2-9	B	
I3-U	I3-E	TB2-10	W	
DET. 6	I3-J	TB2-11	B	
I3-L	I3-K	TB2-12	W	

DETECTOR ID		TB5	INPUT	FILE
	B	TB5-1	I10-D	DET. 19
	W	TB5-2	I10-E	I10-U
	B	TB5-3	I10-J	DET. 20
	W	TB5-4	I10-K	I10-L
	B	TB5-5	I11-D	DET. 21
	W	TB5-6	I11-E	I11-U
	B	TB5-7	I11-J	DET. 22
	W	TB5-8	I11-K	I11-L
	B	TB5-9	I12-D	DET. 23
	W	TB5-10	I12-E	I12-U
	B	TB5-11	I12-J	DET. 24
	W	TB5-12	I12-K	I12-L

INPUT	FILE	TB3		
DET. 7	I4-D	TB3-1	B	-MS-M-2
I4-U	I4-E	TB3-2	W	(BASE)
DET. 8	I4-J	TB3-3	B	-MS-M-1
I4-L	I4-K	TB3-4	W	(BASE)
DET. 9	I5-D	TB3-5	B	
I5-U	I5-E	TB3-6	W	
DET. 10	I5-J	TB3-7	B	
I5-L	I5-K	TB3-8	W	
DET. 11	I6-D	TB3-9	B	
I6-U	I6-E	TB3-10	W	
DET. 12	I6-J	TB3-11	B	
I6-L	I6-K	TB3-12	W	

		TB6	INPUT	FILE
	B	TB6-1	I13-D	DET. 25
	W	TB6-2	I13-E	I13-U
	B	TB6-3	I13-J	DET. 26
	W	TB6-4	I13-K	I13-L
	B	TB6-5	I14-D	DET. 27
	W	TB6-6	I14-E	I14-U
	B	TB6-7	I14-J	DET. 28
	W	TB6-8	I14-K	I14-L
	B	TB6-9	J1-D	DET. 29
	W	TB6-10	J1-E	J1-U
	B	TB6-11	J1-J	DET. 30
	W	TB6-12	J1-K	J1-L

INPUT	FILE	TB4		
DET. 13	I7-D	TB4-1	B	
I7-U	I7-E	TB4-2	W	
DET. 14	I7-J	TB4-3	B	-MS-M-1
I7-L	I7-K	TB4-4	W	(BASE & A1)
DET. 15	I8-D	TB4-5	B	
I8-U	I8-E	TB4-6	W	
DET. 16	I8-J	TB4-7	B	
I8-L	I8-K	TB4-8	W	
DET. 17	I9-D	TB4-9	B	
I9-U	I9-E	TB4-10	W	
DET. 18	I9-J	TB4-11	B	
I9-L	I9-K	TB4-12	W	

		TB7	INPUT	FILE
	B	TB7-1	J2-D	DET. 31
	W	TB7-2	J2-E	J2-U
	B	TB7-3	J2-J	DET. 32
	W	TB7-4	J2-K	J2-L
	B	TB7-5	J3-D	DET. 33
	W	TB7-6	J3-E	J3-U
	B	TB7-7	J3-J	DET. 34
	W	TB7-8	J3-K	J3-L
	B	TB7-9	J4-D	DET. 35
	W	TB7-10	J4-E	J4-U
	B	TB7-11	J4-J	DET. 36
	W	TB7-12	J4-K	J4-L

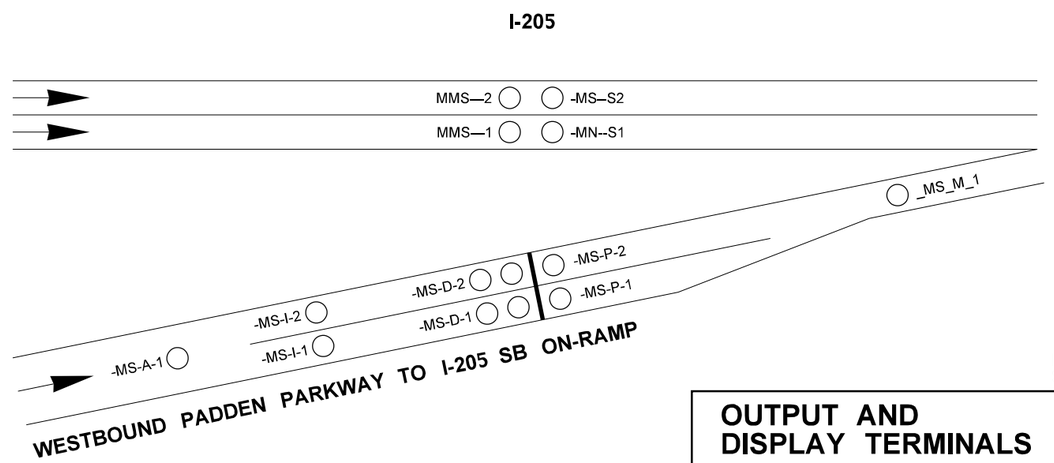
INPUT	FILE	TB8		
DET. 37	J5-D	TB8-1	B	
J5-U	J5-E	TB8-2	W	
DET. 38	J5-J	TB8-3	B	
J5-L	J5-K	TB8-4	W	
DET. 39	J6-D	TB8-5	B	
J6-U	J6-E	TB8-6	W	
DET. 40	J6-J	TB8-7	B	
J6-L	J6-K	TB8-8	W	
NOT USED		TB8-9		
		TB8-10		
		TB8-11		
		TB8-12		

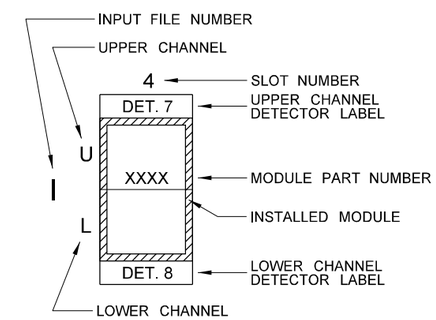
EVPs		TB9	INPUT	FILE
	Y	TB9-1	J13-D	EVP A J13-U
	O	TB9-2	J13-E	
	BL/DR	TB9-3	J13-K	
	Y	TB9-4	J13-J	EVP B J13-L
	O	TB9-5	J13-E	
	BL/DR	TB9-6	J13-K	
		TB9-7		NOT USED
		TB9-8		
		TB9-9		
		TB9-10		
		TB9-11		
		TB9-12		

INPUT FILE LAYOUT AND MARKING DETAIL

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	MMS--2	MMS--1	-------	-MS-I-2	-MS-D-2	-MS-P-2	-------	SPARE	SPARE	DET. 19	DET. 21	DET. 23	DET. 25	DET. 27
I U	CLICK 112	CLICK 112	CLICK 112	LOOP DET. (BASE)	CLICK 112	CLICK 112	LOOP DET. (BASE&A1)	CLICK 112	LOOP DETECT (BASE&A1)					
I L				CLICK 112 (A1 & A2)			CLICK 112 (A2)		CLICK 112(A2)					
	-MS--S2	-MN--S1	-MS-A-1	-MS-I-1	-MS-D-1	-MS-P-1	-MS-M-1	SPARE	SPARE	DET. 20	DET. 22	DET. 24	DET. 26	DET. 28
	DET. 29	DET. 31	DET. 33	DET. 35	DET. 37	DET. 39								
J U														
J L														
	DET. 30	DET. 32	DET. 34	DET. 36	DET. 38	DET. 40								

SLOTS J7 THROUGH J11 NOT USED





INPUT FILE SLOT LEGEND

NOTE:
SLOTS LABELED WITH "000" SHALL REMAIN UNLABELED.

NOTES:

1. CONTRACTOR SHALL PROVIDE ONE (1) 12" RS485 JUMBER CABLE PER CLICK CARD.
2. CONTRACTOR SHALL PROVIDE SIX (6) 3' CABLE FOR EVERY CLICK 656.

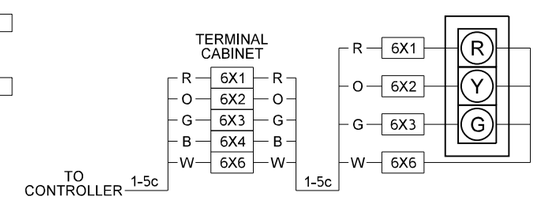
OUTPUT AND DISPLAY TERMINALS

T4

T4-7	611	R	11
T4-8	612	O	
T4-9	613	G	
T4-4	621	R	21
T4-5	622	O	
T4-6	623	G	
T4-1	631		
T4-2	632		
T4-3	633		

CABINET OUTPUT TERMINALS
BACK OF PDA #3LX

SIGNAL DISPLAY



FIELD TERMINALS

WESTBOUND PADDEN PARKWAY TO I-205 SOUTHBOUND

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn
TIME	9:19:14 AM
DATE	11/1/2022
PLOTTED BY	fuestm
DESIGNED BY	M. FUEST
ENTERED BY	K. WACHTER
CHECKED BY	S. MERCER
PROJ. ENGR.	M. HARWOOD
REGIONAL ADM.	C. FRANCIS

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

SEE SHEET CT1
DATE
P.E. STAMP BOX

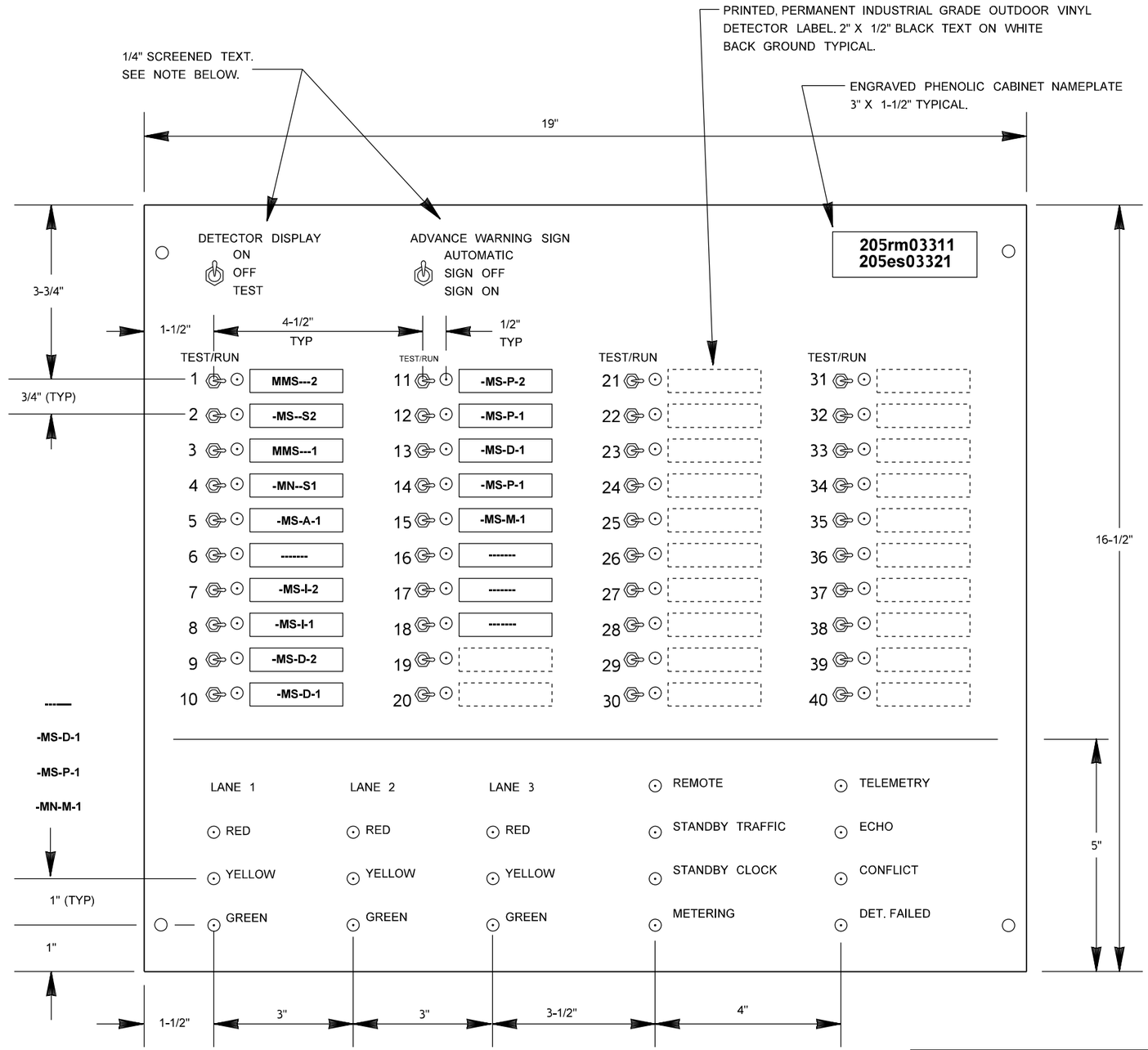
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 3
PLAN REF NO ITD3
SHEET 62 OF 164 SHEETS



UNLESS OTHERWISE NOTED, ALL TEXT SHALL BE SCREENED DIRECTLY ON THE PANEL. TEXT SHALL BE 1/4" MINIMUM.

WESTBOUND PADDEN PARKWAY TO I-205 SOUTHBOUND

NOT TO SCALE

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn				REGION NO.	STATE	FED.AID PROJ.NO.		Washington State Department of Transportation	I-5/NB FOURTH PLAIN ON-RAMP I-205/SB 134TH ST TO MILL PLAIN RAMP METERS	Plot 4
TIME	9:19:16 AM				10	WASH	STP-2051(287)				PLAN REF NO ITD4
DATE	11/1/2022				JOB NUMBER		CRRSAA(UL)-0051(318)				SHEET 63 OF 164 SHEETS
PLOTTED BY	fuestm				22X332						
DESIGNED BY	M. FUEST				CONTRACT NO.		LOCATION NO.			ITS DETAILS	
ENTERED BY	K. WACHTER										
CHECKED BY	S. MERCER										
PROJ. ENGR.	M. HARWOOD										
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY							

SEE SHEET CT1 DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

CABINET INPUT WIRE TERMINATIONS

INPUT FILE		TB2		DETECTOR ID
DET. 1	I1-D	TB2-1	B	
I1-U	I1-E	TB2-2	W	
DET. 2	I1-J	TB2-3	B	
I1-L	I1-K	TB2-4	W	
DET. 3	I2-D	TB2-5	B	
I2-U	I2-E	TB2-6	W	
DET. 4	I2-J	TB2-7	B	
I2-L	I2-K	TB2-8	W	
DET. 5	I3-D	TB2-9	B	
I3-U	I3-E	TB2-10	W	
DET. 6	I3-J	TB2-11	B	
I3-L	I3-K	TB2-12	W	

DETECTOR ID		TB5		INPUT FILE	
	B	TB5-1	I10-D	DET. 19
	W	TB5-2	I10-E	I10-U
	B	TB5-3	I10-J	DET. 20
	W	TB5-4	I10-K	I10-L
	B	TB5-5	I11-D	DET. 21
	W	TB5-6	I11-E	I11-U
	B	TB5-7	I11-J	DET. 22
	W	TB5-8	I11-K	I11-L
	B	TB5-9	I12-D	DET. 23
	W	TB5-10	I12-E	I12-U
	B	TB5-11	I12-J	DET. 24
	W	TB5-12	I12-K	I12-L

INPUT FILE		TB3		
DET. 7	I4-D	TB3-1	B	
I4-U	I4-E	TB3-2	W	
DET. 8	I4-J	TB3-3	B	-MS-I-1 (BASE)
I4-L	I4-K	TB3-4	W	
DET. 9	I5-D	TB3-5	B	
I5-U	I5-E	TB3-6	W	
DET. 10	I5-J	TB3-7	B	
I5-L	I5-K	TB3-8	W	
DET. 11	I6-D	TB3-9	B	
I6-U	I6-E	TB3-10	W	
DET. 12	I6-J	TB3-11	B	
I6-L	I6-K	TB3-12	W	

		TB6		INPUT FILE	
	B	TB6-1	I13-D	DET. 25
	W	TB6-2	I13-E	I13-U
	B	TB6-3	I13-J	DET. 26
	W	TB6-4	I13-K	I13-L
	B	TB6-5	I14-D	DET. 27
	W	TB6-6	I14-E	I14-U
	B	TB6-7	I14-J	DET. 28
	W	TB6-8	I14-K	I14-L
	B	TB6-9	J1-D	DET. 29
	W	TB6-10	J1-E	J1-U
	B	TB6-11	J1-J	DET. 30
	W	TB6-12	J1-K	J1-L

INPUT FILE		TB4		
DET. 13	I7-D	TB4-1	B	
I7-U	I7-E	TB4-2	W	
DET. 14	I7-J	TB4-3	B	
I7-L	I7-K	TB4-4	W	
DET. 15	I8-D	TB4-5	B	
I8-U	I8-E	TB4-6	W	
DET. 16	I8-J	TB4-7	B	-MS-M-1 (BASE & A1)
I8-L	I8-K	TB4-8	W	
DET. 17	I9-D	TB4-9	B	
I9-U	I9-E	TB4-10	W	
DET. 18	I9-J	TB4-11	B	
I9-L	I9-K	TB4-12	W	

		TB7		INPUT FILE	
	B	TB7-1	J2-D	DET. 31
	W	TB7-2	J2-E	J2-U
	B	TB7-3	J2-J	DET. 32
	W	TB7-4	J2-K	J2-L
	B	TB7-5	J3-D	DET. 33
	W	TB7-6	J3-E	J3-U
	B	TB7-7	J3-J	DET. 34
	W	TB7-8	J3-K	J3-L
	B	TB7-9	J4-D	DET. 35
	W	TB7-10	J4-E	J4-U
	B	TB7-11	J4-J	DET. 36
	W	TB7-12	J4-K	J4-L

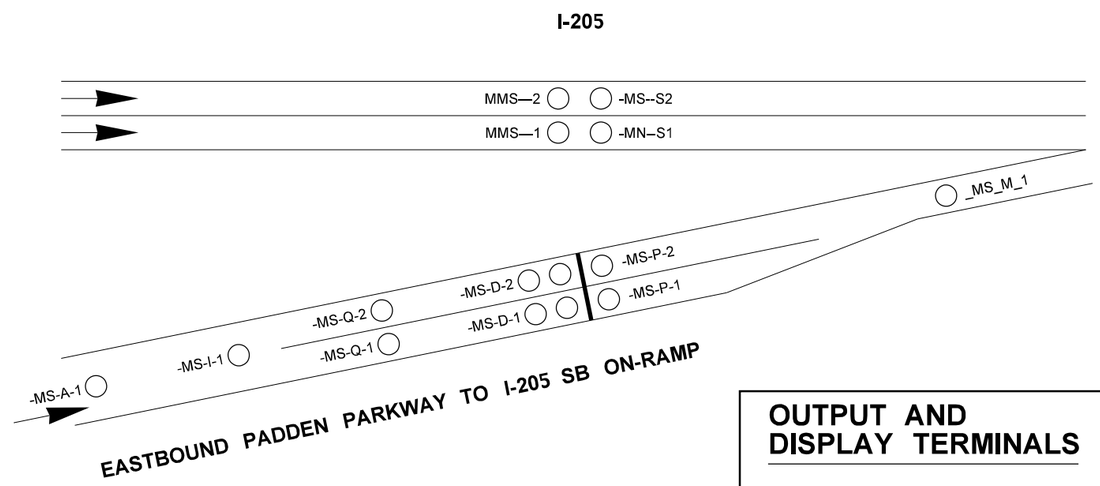
INPUT FILE		TB8	
DET. 37	J5-D	TB8-1	B
J5-U	J5-E	TB8-2	W
DET. 38	J5-J	TB8-3	B
J5-L	J5-K	TB8-4	W
DET. 39	J6-D	TB8-5	B
J6-U	J6-E	TB8-6	W
DET. 40	J6-J	TB8-7	B
J6-L	J6-K	TB8-8	W
NOT USED		TB8-9	
		TB8-10	
		TB8-11	
		TB8-12	

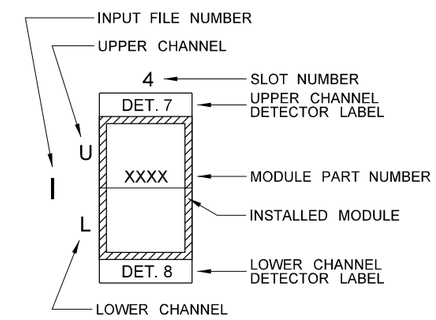
EVPs		TB9		INPUT FILE	
	Y	TB9-1	J13-D	EVP A J13-U
	O	TB9-2	J13-E	
	BL/DR	TB9-3	J13-K	
	Y	TB9-4	J13-J	EVP B J13-L
	O	TB9-5	J13-E	
	BL/DR	TB9-6	J13-K	
		TB9-7		
		TB9-8		
		TB9-9		NOT USED
		TB9-10		
		TB9-11		
		TB9-12		

INPUT FILE LAYOUT AND MARKING DETAIL

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	MMS--2	MMS--1	------	------	-MS-Q-2	-MS-D-2	-MS-P-2	------	SPARE	SPARE	DET. 21	DET. 23	DET. 25	DET. 27
I U	CLICK 112	CLICK 112	CLICK 112	LOOP DET. (BASE) CLICK 112 (A1 & A2)	CLICK 112	CLICK 112	CLICK 112	LOOP DET. (BASE&A1) CLICK 112 (A2)	CLICK 112	LOOP DETECT (BASE&A1) CLICK 112 (A2)				
I L	-MS--S2	-MN--S1	-MS-A-1	-MS-I-1	-MS-Q-1	-MS-D-1	-MS-P-1	_MS_M_1	SPARE	SPARE	DET. 22	DET. 24	DET. 26	DET. 28
	DET. 29	DET. 31	DET. 33	DET. 35	DET. 37	DET. 39								
J U														
J L														
	DET. 30	DET. 32	DET. 34	DET. 36	DET. 38	DET. 40								

SLOTS J7 THROUGH J11 NOT USED





INPUT FILE SLOT LEGEND

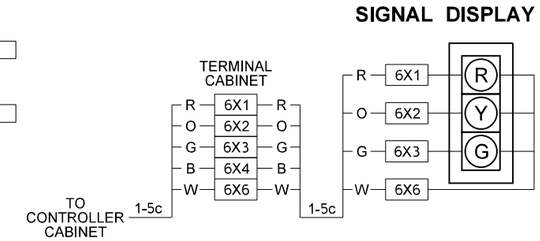
NOTE:
SLOTS LABELED WITH "000" SHALL REMAIN UNLABELED.

OUTPUT AND DISPLAY TERMINALS

T4

T4-7	611	R	11
T4-8	612	O	
T4-9	613	G	
T4-4	621	R	21
T4-5	622	O	
T4-6	623	G	
T4-1	631		
T4-2	632		
T4-3	633		

CABINET OUTPUT TERMINALS
BACK OF PDA #3LX



FIELD TERMINALS

NOTES:
1. CONTRACTOR SHALL PROVIDE ONE (1) 12" RS485 JUMBER CABLE PER CLICK CARD.
2. CONTRACTOR SHALL PROVIDE SIX (6) 3' CABLE FOR EVERY CLICK 656.

EASTBOUND PADDEN PARKWAY TO I-205 SOUTHBOUND

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn
TIME	9:19:18 AM
DATE	11/1/2022
PLOTTED BY	fuestm
DESIGNED BY	M. FUEST
ENTERED BY	K. WACHTER
CHECKED BY	S. MERCER
PROJ. ENGR.	M. HARWOOD
REGIONAL ADM.	C. FRANCIS

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX — SEE SHEET CT1 — DATE

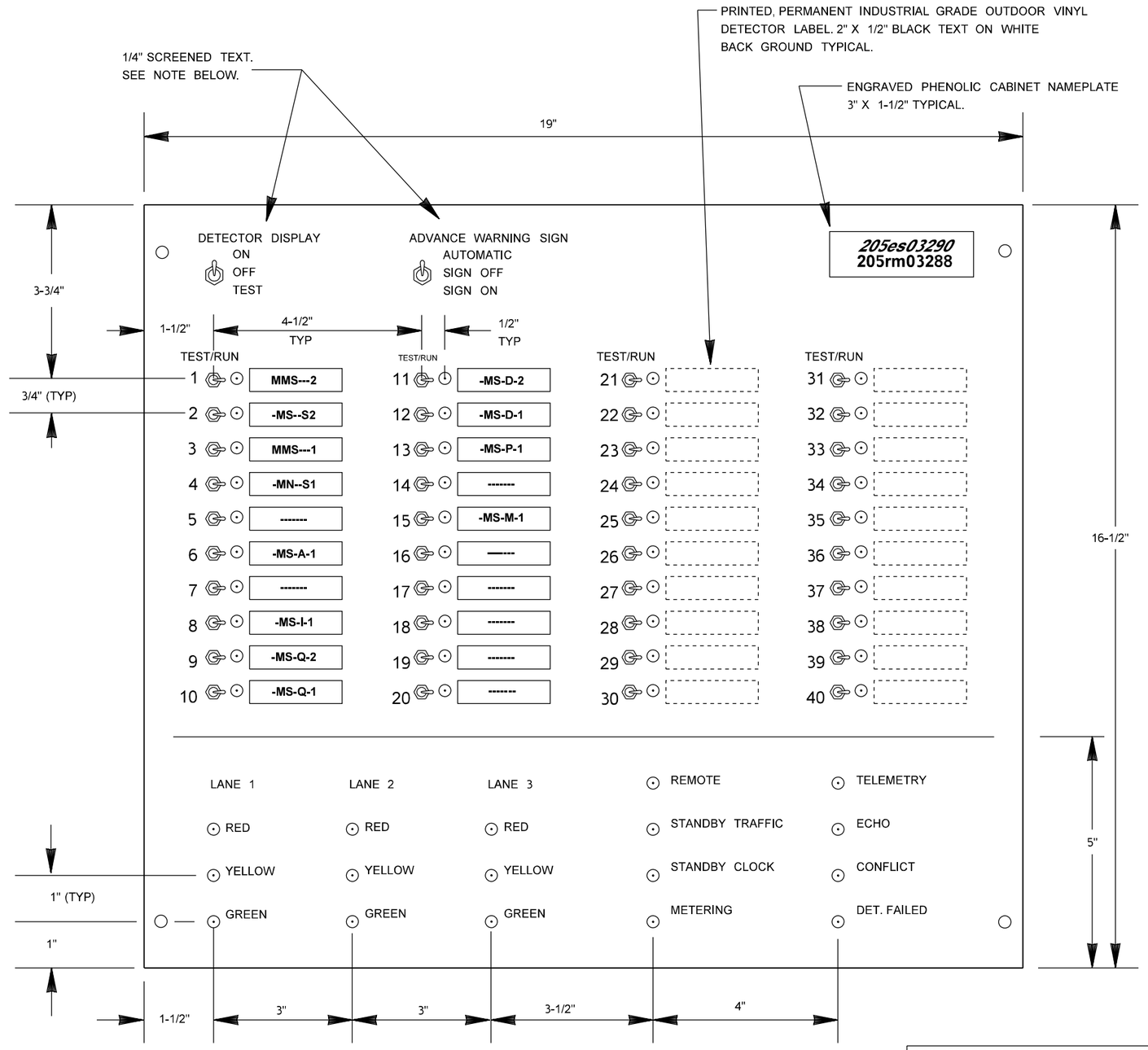
P.E. STAMP BOX — DATE

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN RAMP METERS

ITS DETAILS

Plot 5
PLAN REF NO ITD5
SHEET 64 OF 164 SHEETS



UNLESS OTHERWISE NOTED, ALL TEXT SHALL BE SCREENED DIRECTLY ON THE PANEL. TEXT SHALL BE 1/4" MINIMUM.

EASTBOUND PADDEN PARKWAY TO I-205 SOUTHBOUND - DISPLAY PANEL

NOT TO SCALE

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn						
TIME	9:19:21 AM						
DATE	11/1/2022						
PLOTTED BY	fuestm						
DESIGNED BY	M. FUEST						
ENTERED BY	K. WACHTER						
CHECKED BY	S. MERCER						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN RAMP METERS

ITS DETAILS

Plot 6
PLAN REF NO
ITD6
SHEET 65 OF 164 SHEETS

CABINET INPUT WIRE TERMINATIONS

INPUT	FILE	TB2		DETECTOR ID
DET. 1	I1-D	TB2-1	B	
I1-U	I1-E	TB2-2	W	
DET. 2	I1-J	TB2-3	B	
I1-L	I1-K	TB2-4	W	
DET. 3	I2-D	TB2-5	B	
I2-U	I2-E	TB2-6	W	
DET. 4	I2-J	TB2-7	B	
I2-L	I2-K	TB2-8	W	
DET. 5	I3-D	TB2-9	B	
I3-U	I3-E	TB2-10	W	
DET. 6	I3-J	TB2-11	B	
I3-L	I3-K	TB2-12	W	

DETECTOR ID		TB5	INPUT	FILE
	B	TB5-1	I10-D	DET. 19
	W	TB5-2	I10-E	I10-U
	B	TB5-3	I10-J	DET. 20
	W	TB5-4	I10-K	I10-L
	B	TB5-5	I11-D	DET. 21
	W	TB5-6	I11-E	I11-U
	B	TB5-7	I11-J	DET. 22
	W	TB5-8	I11-K	I11-L
	B	TB5-9	I12-D	DET. 23
	W	TB5-10	I12-E	I12-U
	B	TB5-11	I12-J	DET. 24
	W	TB5-12	I12-K	I12-L

INPUT	FILE	TB3		
DET. 7	I4-D	TB3-1	B	
I4-U	I4-E	TB3-2	W	
DET. 8	I4-J	TB3-3	B	
I4-L	I4-K	TB3-4	W	
DET. 9	I5-D	TB3-5	B	
I5-U	I5-E	TB3-6	W	
DET. 10	I5-J	TB3-7	B	
I5-L	I5-K	TB3-8	W	
DET. 11	I6-D	TB3-9	B	
I6-U	I6-E	TB3-10	W	
DET. 12	I6-J	TB3-11	B	
I6-L	I6-K	TB3-12	W	

		TB6	INPUT	FILE
	B	TB6-1	I13-D	DET. 25
	W	TB6-2	I13-E	I13-U
	B	TB6-3	I13-J	DET. 26
	W	TB6-4	I13-K	I13-L
	B	TB6-5	I14-D	DET. 27
	W	TB6-6	I14-E	I14-U
	B	TB6-7	I14-J	DET. 28
	W	TB6-8	I14-K	I14-L
	B	TB6-9	J1-D	DET. 29
	W	TB6-10	J1-E	J1-U
	B	TB6-11	J1-J	DET. 30
	W	TB6-12	J1-K	J1-L

INPUT	FILE	TB4		
DET. 13	I7-D	TB4-1	B	
I7-U	I7-E	TB4-2	W	
DET. 14	I7-J	TB4-3	B	
I7-L	I7-K	TB4-4	W	
DET. 15	I8-D	TB4-5	B	
I8-U	I8-E	TB4-6	W	
DET. 16	I8-J	TB4-7	B	
I8-L	I8-K	TB4-8	W	-MS-I-1 (BASE & A1)
DET. 17	I9-D	TB4-9	B	
I9-U	I9-E	TB4-10	W	
DET. 18	I9-J	TB4-11	B	
I9-L	I9-K	TB4-12	W	

		TB7	INPUT	FILE
	B	TB7-1	J2-D	DET. 31
	W	TB7-2	J2-E	J2-U
	B	TB7-3	J2-J	DET. 32
	W	TB7-4	J2-K	J2-L
	B	TB7-5	J3-D	DET. 33
	W	TB7-6	J3-E	J3-U
	B	TB7-7	J3-J	DET. 34
	W	TB7-8	J3-K	J3-L
	B	TB7-9	J4-D	DET. 35
	W	TB7-10	J4-E	J4-U
	B	TB7-11	J4-J	DET. 36
	W	TB7-12	J4-K	J4-L

INPUT	FILE	TB8		
DET. 37	J5-D	TB8-1	B	
J5-U	J5-E	TB8-2	W	
DET. 38	J5-J	TB8-3	B	
J5-L	J5-K	TB8-4	W	
DET. 39	J6-D	TB8-5	B	
J6-U	J6-E	TB8-6	W	
DET. 40	J6-J	TB8-7	B	
J6-L	J6-K	TB8-8	W	
NOT USED		TB8-9		
		TB8-10		
		TB8-11		
		TB8-12		

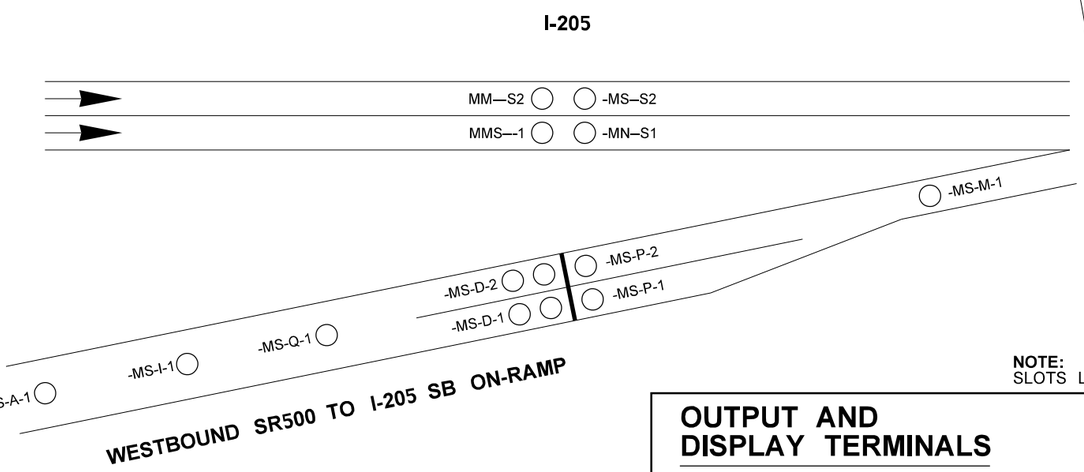
EVPs		TB9	INPUT	FILE
	Y	TB9-1	J13-D	EVP A J13-U
	O	TB9-2	J13-E	
	BL/DR	TB9-3	J13-K	
	Y	TB9-4	J13-J	EVP B J13-L
	O	TB9-5	J13-E	
	BL/DR	TB9-6	J13-K	
		TB9-7		
		TB9-8		
		TB9-9		
		TB9-10		
		TB9-11		
		TB9-12		

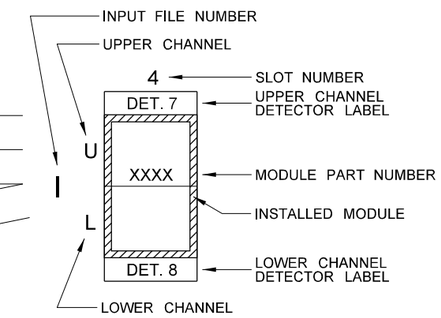
NOT USED

INPUT FILE LAYOUT AND MARKING DETAIL

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	MM--S2	MMS--1	------	------	------	-MS-D-2	-MS-P-2	------	SPARE	SPARE	DET. 21	DET. 23	DET. 25	DET. 27
I U	CLICK 112	CLICK 112	CLICK 112	CLICK 112	CLICK 112	CLICK 112	CLICK 112	LOOP DETECT. (BASE&A1) CLICK 112 (A2)	CLICK 112	LOOP DETECT. (BASE&A1) CLICK 112 (A2)				
I L														
	-MS--S2	-MN--S1	-MS-A-1	-MS-I-1	-MS-Q-1	-MS-D-1	-MS-P-1	-MS-M-1	SPARE	SPARE	DET. 22	DET. 24	DET. 26	DET. 28
	DET. 29	DET. 31	DET. 33	DET. 35	DET. 37	DET. 39								
J U														
J L														
	DET. 30	DET. 32	DET. 34	DET. 36	DET. 38	DET. 40								

SLOTS J7 THROUGH J11 NOT USED





INPUT FILE SLOT LEGEND

NOTE:
SLOTS LABELED WITH "000" SHALL REMAIN UNLABELED.

NOTES:

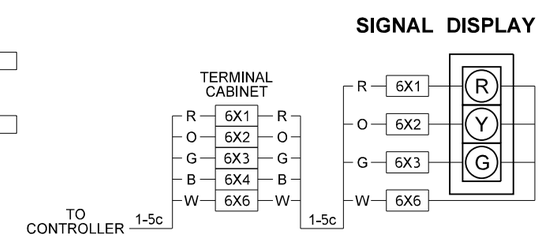
1. CONTRACTOR SHALL PROVIDE ONE (1) 12" RS485 JUMBER CABLE PER CLICK CARD.
2. CONTRACTOR SHALL PROVIDE SIX (6) 3' CABLE FOR EVERY CLICK 656.

OUTPUT AND DISPLAY TERMINALS

T4

T4-7	611	R	
T4-8	612	O	11
T4-9	613	G	
T4-4	621	R	
T4-5	622	O	21
T4-6	623	G	
T4-1	631		
T4-2	632		
T4-3	633		

CABINET OUTPUT TERMINALS
BACK OF PDA #3LX



FIELD TERMINALS

SR 500 WESTBOUND TO I-205 SOUTHBOUND

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn
TIME	9:19:24 AM
DATE	11/1/2022
PLOTTED BY	fuestm
DESIGNED BY	M. FUEST
ENTERED BY	K. WACHTER
CHECKED BY	S. MERCER
PROJ. ENGR.	M. HARWOOD
REGIONAL ADM.	C. FRANCIS

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA D. HARWOOD DAVIS, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

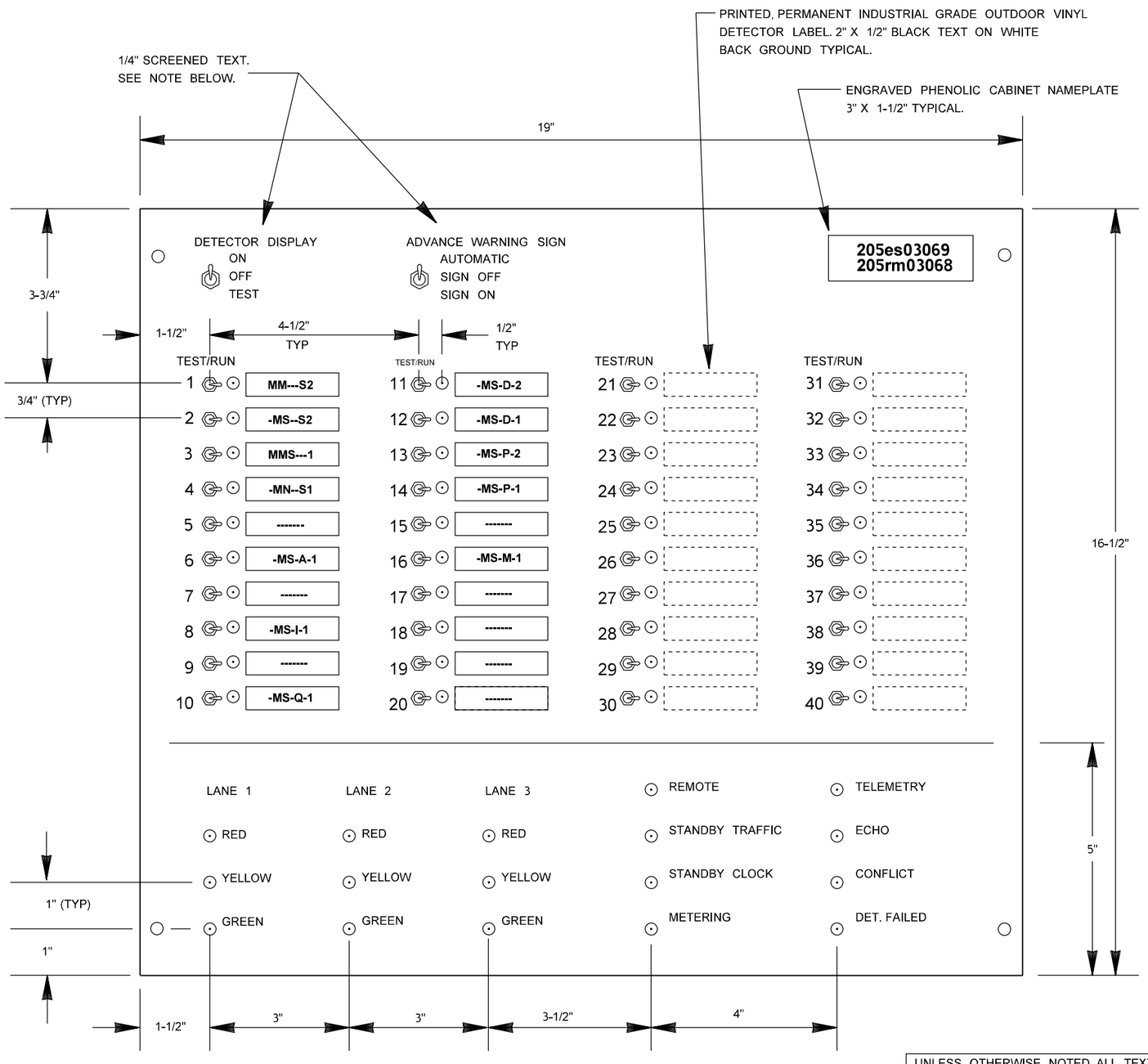
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 7
PLAN REF NO ITD7
SHEET 66 OF 164 SHEETS



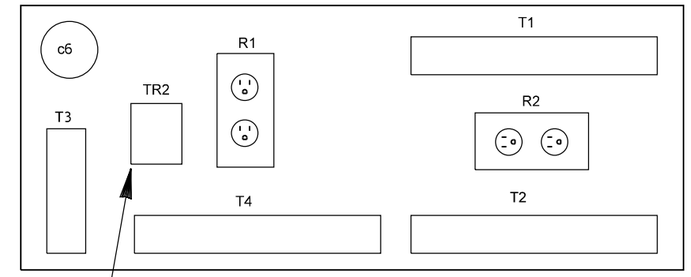
UNLESS OTHERWISE NOTED, ALL TEXT SHALL BE SCREENED DIRECTLY ON THE PANEL. TEXT SHALL BE 1/4" MINIMUM.

SR 500 WESTBOUND TO I-205 SOUTHBOUND - DISPLAY PANEL

NOT TO SCALE

POWER DISTRIBUTION ASSEMBLY (PDA) #3

(REAR VIEW)



PDA #3 MODIFICATIONS

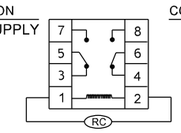
CONNECT	TO	FUNCTION
T2-8	T4-6	TR OUTPUT TO FIELD GRN 2
T2-6	MU-3	ENERGIZE TR WHEN MU IS NORMAL
T1-1, T1-2	SR-3	FIELD OUTPUT - SIGN ON
T1-3, T1-4	SR-4	FIELD OUTPUT - SIGN OFF

ADD TRANSFER RELAY #2 AS SHOWN.

TRANSFER RELAY

(FRONT PANEL OF PDA #3)

CONNECT TO	FUNCTION	CONNECT TO	FUNCTION
SWPK1-1	AC+ SUPPLY	SWPK2-7	GRN-2
CB 3	AC+	T4-6	GRN OUTPUT
NC	NA	TR-5	AC+
T2-6	MU-OK	T2-2	AC-

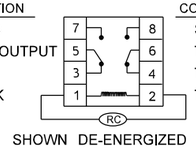


SHOWN DE-ENERGIZED
ENERGIZED BY MONITOR UNIT NORMAL

TRANSFER RELAY #2

(MODEL 430)

CONNECT TO	FUNCTION	CONNECT TO	FUNCTION
SWPK3-7	GRN-3	SWPK1-7	GRN-1
T4-3	GRN OUTPUT	T4-9	GRN OUTPUT
CB3	AC+	TR2-3	AC+
T2-6	MU-OK	T2-2	AC-



SHOWN DE-ENERGIZED
ENERGIZED BY MONITOR UNIT NORMAL

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn			
TIME	9:19:27 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	K. WACHTER			
CHECKED BY	S. MERCER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 8
PLAN REF NO
ITD8
SHEET 67 OF 164 SHEETS

CABINET INPUT WIRE TERMINATIONS

INPUT	FILE	TB2		DETECTOR ID
DET. 1	I1-D	TB2-1	B	
I1-U	I1-E	TB2-2	W	
DET. 2	I1-J	TB2-3	B	
I1-L	I1-K	TB2-4	W	
DET. 3	I2-D	TB2-5	B	
I2-U	I2-E	TB2-6	W	
DET. 4	I2-J	TB2-7	B	
I2-L	I2-K	TB2-8	W	
DET. 5	I3-D	TB2-9	B	
I3-U	I3-E	TB2-10	W	
DET. 6	I3-J	TB2-11	B	
I3-L	I3-K	TB2-12	W	

DETECTOR ID		TB5	INPUT	FILE
	B	TB5-1	I10-D	DET. 19
	W	TB5-2	I10-E	I10-U
	B	TB5-3	I10-J	DET. 20
	W	TB5-4	I10-K	I10-L
	B	TB5-5	I11-D	DET. 21
	W	TB5-6	I11-E	I11-U
	B	TB5-7	I11-J	DET. 22
	W	TB5-8	I11-K	I11-L
	B	TB5-9	I12-D	DET. 23
	W	TB5-10	I12-E	I12-U
	B	TB5-11	I12-J	DET. 24
	W	TB5-12	I12-K	I12-L

INPUT	FILE	TB3		
DET. 7	I4-D	TB3-1	B	
I4-U	I4-E	TB3-2	W	
DET. 8	I4-J	TB3-3	B	
I4-L	I4-K	TB3-4	W	
DET. 9	I5-D	TB3-5	B	
I5-U	I5-E	TB3-6	W	
DET. 10	I5-J	TB3-7	B	
I5-L	I5-K	TB3-8	W	
DET. 11	I6-D	TB3-9	B	-MS-I-1
I6-U	I6-E	TB3-10	W	(BASE & A1)
DET. 12	I6-J	TB3-11	B	
I6-L	I6-K	TB3-12	W	

		TB6	INPUT	FILE
	B	TB6-1	I13-D	DET. 25
	W	TB6-2	I13-E	I13-U
	B	TB6-3	I13-J	DET. 26
	W	TB6-4	I13-K	I13-L
	B	TB6-5	I14-D	DET. 27
	W	TB6-6	I14-E	I14-U
	B	TB6-7	I14-J	DET. 28
	W	TB6-8	I14-K	I14-L
	B	TB6-9	J1-D	DET. 29
	W	TB6-10	J1-E	J1-U
	B	TB6-11	J1-J	DET. 30
	W	TB6-12	J1-K	J1-L

INPUT	FILE	TB4		
DET. 13	I7-D	TB4-1	B	
I7-U	I7-E	TB4-2	W	
DET. 14	I7-J	TB4-3	B	
I7-L	I7-K	TB4-4	W	
DET. 15	I8-D	TB4-5	B	
I8-U	I8-E	TB4-6	W	
DET. 16	I8-J	TB4-7	B	
I8-L	I8-K	TB4-8	W	
DET. 17	I9-D	TB4-9	B	
I9-U	I9-E	TB4-10	W	
DET. 18	I9-J	TB4-11	B	-MS-M-1
I9-L	I9-K	TB4-12	W	(BASE & A1)

		TB7	INPUT	FILE
	B	TB7-1	J2-D	DET. 31
	W	TB7-2	J2-E	J2-U
	B	TB7-3	J2-J	DET. 32
	W	TB7-4	J2-K	J2-L
	B	TB7-5	J3-D	DET. 33
	W	TB7-6	J3-E	J3-U
	B	TB7-7	J3-J	DET. 34
	W	TB7-8	J3-K	J3-L
	B	TB7-9	J4-D	DET. 35
	W	TB7-10	J4-E	J4-U
	B	TB7-11	J4-J	DET. 36
	W	TB7-12	J4-K	J4-L

INPUT	FILE	TB8		
DET. 37	J5-D	TB8-1	B	
J5-U	J5-E	TB8-2	W	
DET. 38	J5-J	TB8-3	B	
J5-L	J5-K	TB8-4	W	
DET. 39	J6-D	TB8-5	B	
J6-U	J6-E	TB8-6	W	
DET. 40	J6-J	TB8-7	B	
J6-L	J6-K	TB8-8	W	
		TB8-9		
		TB8-10		
		TB8-11		
		TB8-12		

NOT USED

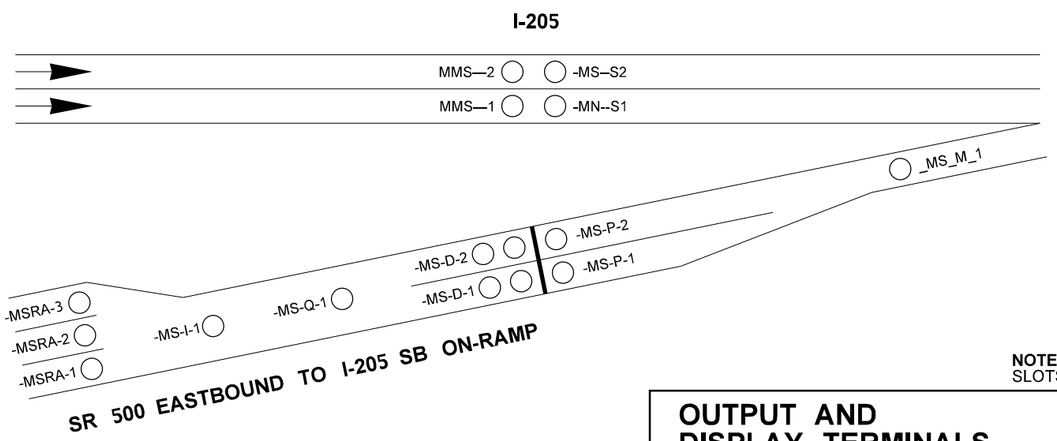
EVPs		TB9	INPUT	FILE
	Y	TB9-1	J13-D	EVP A J13-U
	O	TB9-2	J13-E	
	BL/DR	TB9-3	J13-K	
	Y	TB9-4	J13-J	EVP B J13-L
	O	TB9-5	J13-E	
	BL/DR	TB9-6	J13-K	
		TB9-7		
		TB9-8		
		TB9-9		
		TB9-10		
		TB9-11		
		TB9-12		

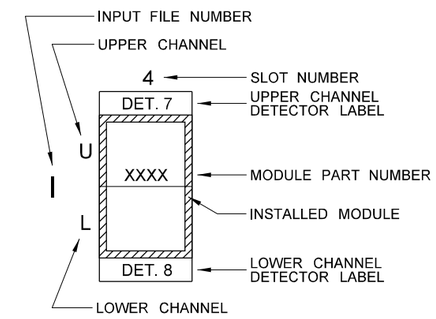
NOT USED

INPUT FILE LAYOUT AND MARKING DETAIL

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	MMS--2	MMS--1	------	-MSRA-2	------	------	-MS-D-2	-MS-P-2	------	SPARE	SPARE	DET. 23	DET. 25	DET. 27
I U	CLICK 112	CLICK 112	CLICK 112	CLICK 112	LOOP DET. (BASE) CLICK 112 (A1 & A2)	CLICK 112	CLICK 112	CLICK 112	LOOP DET. (BASE&A1) CLICK 112 (A2)	CLICK 112	LOOP DETECT (BASE&A1) CLICK 112(A2)			
I L														
	-MS--S2	-MN--S1	-MSRA-3	-MSRA-1	-MS-I-1	-MS-Q-1	-MS-D-1	-MS-P-1	_MS_M_1	SPARE	SPARE	DET. 24	DET. 26	DET. 28
	DET. 29	DET. 31	DET. 33	DET. 35	DET. 37	DET. 39								
J U														
J L														
	DET. 30	DET. 32	DET. 34	DET. 36	DET. 38	DET. 40								

SLOTS J7 THROUGH J11 NOT USED





INPUT FILE SLOT LEGEND

NOTE:
SLOTS LABELED WITH "000" SHALL REMAIN UNLABELED.

NOTES:

1. CONTRACTOR SHALL PROVIDE ONE (1) 12" RS485 JUMBER CABLE PER CLICK CARD.
2. CONTRACTOR SHALL PROVIDE SIX (6) 3' CABLE FOR EVERY CLICK 656.

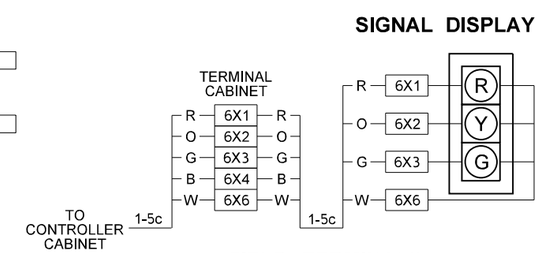
SR 500 EASTBOUND TO I-205 SOUTHBOUND

OUTPUT AND DISPLAY TERMINALS

T4

T4-7	611	R	11
T4-8	612	O	
T4-9	613	G	
T4-4	621	R	21
T4-5	622	O	
T4-6	623	G	
T4-1	631		
T4-2	632		
T4-3	633		

CABINET OUTPUT TERMINALS
BACK OF PDA #3LX



FIELD TERMINALS

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn
TIME	9:19:30 AM
DATE	11/1/2022
PLOTTED BY	fuestm
DESIGNED BY	M. FUEST
ENTERED BY	K. WACHTER
CHECKED BY	S. MERCER
PROJ. ENGR.	M. HARWOOD
REGIONAL ADM.	C. FRANCIS

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX — SEE SHEET CT1 — DATE

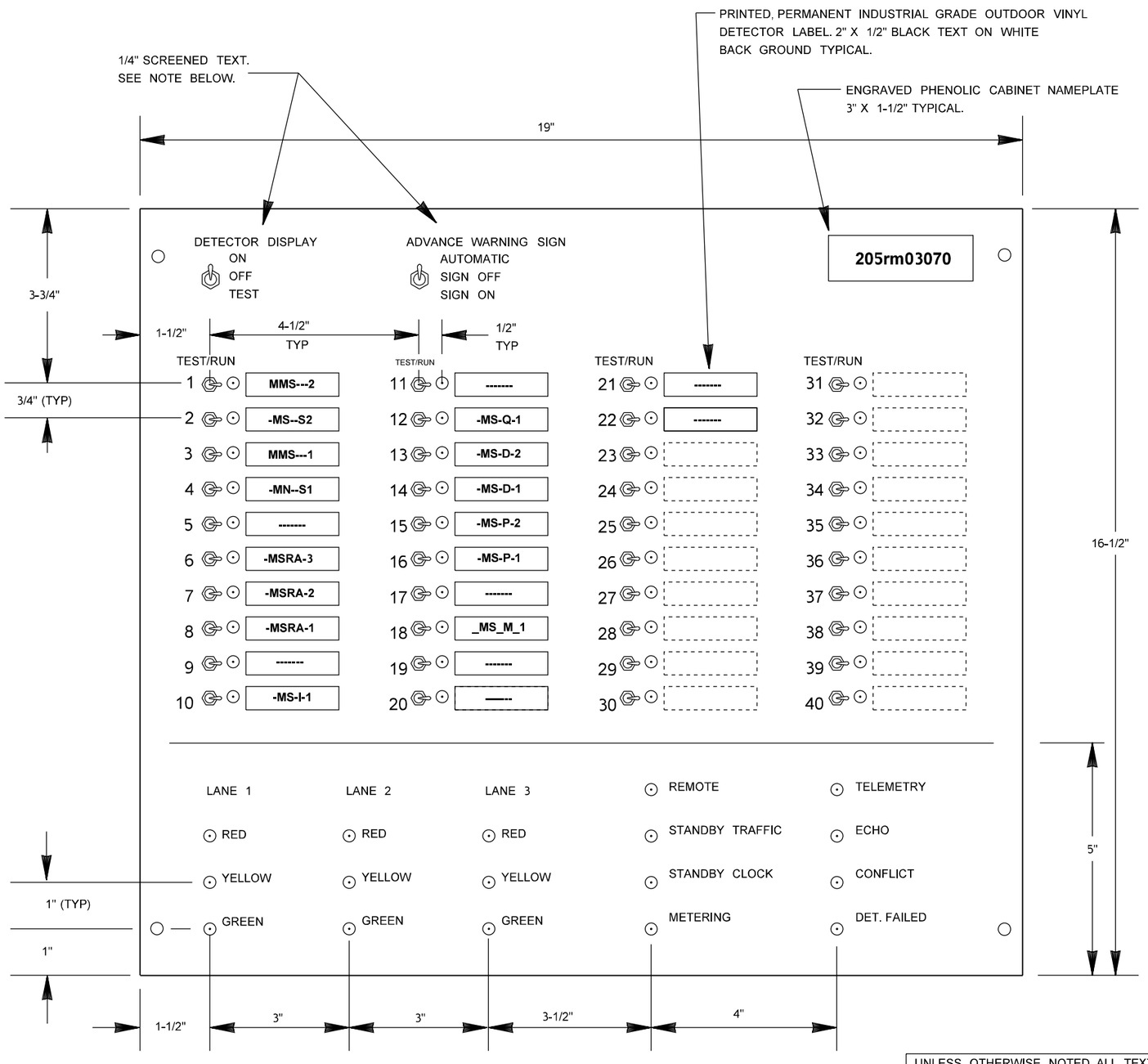
P.E. STAMP BOX — DATE

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN RAMP METERS

ITS DETAILS

Plot 9
PLAN REF NO ITD9
SHEET 68 OF 164 SHEETS



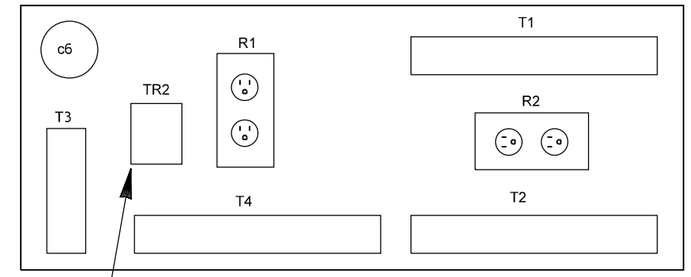
UNLESS OTHERWISE NOTED, ALL TEXT SHALL BE SCREENED DIRECTLY ON THE PANEL. TEXT SHALL BE 1/4" MINIMUM.

SR 500 EASTBOUND TO I-205 SOUTHBOUND - DISPLAY PANEL

NOT TO SCALE

POWER DISTRIBUTION ASSEMBLY (PDA) #3

(REAR VIEW)



PDA #3 MODIFICATIONS

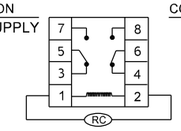
CONNECT	TO	FUNCTION
T2-8	T4-6	TR OUTPUT TO FIELD GRN 2
T2-6	MU-3	ENERGIZE TR WHEN MU IS NORMAL
T1-1, T1-2	SR-3	FIELD OUTPUT - SIGN ON
T1-3, T1-4	SR-4	FIELD OUTPUT - SIGN OFF

ADD TRANSFER RELAY #2 AS SHOWN.

TRANSFER RELAY

(FRONT PANEL OF PDA #3)

CONNECT TO	FUNCTION	CONNECT TO	FUNCTION
SWPK1-1	AC+ SUPPLY	SWPK2-7	GRN-2
CB 3	AC+	T4-6	GRN OUTPUT
NC	NA	TR-5	AC+
T2-6	MU-OK	T2-2	AC-

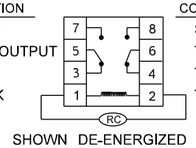


SHOWN DE-ENERGIZED
ENERGIZED BY MONITOR UNIT NORMAL

TRANSFER RELAY #2

(MODEL 430)

CONNECT TO	FUNCTION	CONNECT TO	FUNCTION
SWPK3-7	GRN-3	SWPK1-7	GRN-1
T4-3	GRN OUTPUT	T4-9	GRN OUTPUT
CB3	AC+	TR2-3	AC+
T2-6	MU-OK	T2-2	AC-



SHOWN DE-ENERGIZED
ENERGIZED BY MONITOR UNIT NORMAL

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn			
TIME	9:19:36 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	K. WACHTER			
CHECKED BY	S. MERCER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 10
PLAN REF NO
ITD10
SHEET 69 OF 164 SHEETS

CABINET INPUT WIRE TERMINATIONS

INPUT	FILE	TB2		DETECTOR ID
DET. 1	I1-D	TB2-1	B	
I1-U	I1-E	TB2-2	W	
DET. 2	I1-J	TB2-3	B	
I1-L	I1-K	TB2-4	W	
DET. 3	I2-D	TB2-5	B	
I2-U	I2-E	TB2-6	W	
DET. 4	I2-J	TB2-7	B	
I2-L	I2-K	TB2-8	W	
DET. 5	I3-D	TB2-9	B	
I3-U	I3-E	TB2-10	W	
DET. 6	I3-J	TB2-11	B	
I3-L	I3-K	TB2-12	W	

DETECTOR ID		TB5	INPUT	FILE
	B	TB5-1	I10-D	DET. 19
	W	TB5-2	I10-E	I10-U
	B	TB5-3	I10-J	DET. 20
	W	TB5-4	I10-K	I10-L
	B	TB5-5	I11-D	DET. 21
	W	TB5-6	I11-E	I11-U
	B	TB5-7	I11-J	DET. 22
	W	TB5-8	I11-K	I11-L
	B	TB5-9	I12-D	DET. 23
	W	TB5-10	I12-E	I12-U
	B	TB5-11	I12-J	DET. 24
	W	TB5-12	I12-K	I12-L

INPUT	FILE	TB3		
DET. 7	I4-D	TB3-1	B	
I4-U	I4-E	TB3-2	W	
DET. 8	I4-J	TB3-3	B	
I4-L	I4-K	TB3-4	W	
DET. 9	I5-D	TB3-5	B	-MS-I-2
I5-U	I5-E	TB3-6	W	(BASE)
DET. 10	I5-J	TB3-7	B	-MS-I-1
I5-L	I5-K	TB3-8	W	(BASE)
DET. 11	I6-D	TB3-9	B	
I6-U	I6-E	TB3-10	W	
DET. 12	I6-J	TB3-11	B	
I6-L	I6-K	TB3-12	W	

		TB6	INPUT	FILE
	B	TB6-1	I13-D	DET. 25
	W	TB6-2	I13-E	I13-U
	B	TB6-3	I13-J	DET. 26
	W	TB6-4	I13-K	I13-L
	B	TB6-5	I14-D	DET. 27
	W	TB6-6	I14-E	I14-U
	B	TB6-7	I14-J	DET. 28
	W	TB6-8	I14-K	I14-L
	B	TB6-9	J1-D	DET. 29
	W	TB6-10	J1-E	J1-U
	B	TB6-11	J1-J	DET. 30
	W	TB6-12	J1-K	J1-L

INPUT	FILE	TB4		
DET. 13	I7-D	TB4-1	B	
I7-U	I7-E	TB4-2	W	
DET. 14	I7-J	TB4-3	B	
I7-L	I7-K	TB4-4	W	
DET. 15	I8-D	TB4-5	B	
I8-U	I8-E	TB4-6	W	
DET. 16	I8-J	TB4-7	B	
I8-L	I8-K	TB4-8	W	
DET. 17	I9-D	TB4-9	B	
I9-U	I9-E	TB4-10	W	
DET. 18	I9-J	TB4-11	B	
I9-L	I9-K	TB4-12	W	

		TB7	INPUT	FILE
	B	TB7-1	J2-D	DET. 31
	W	TB7-2	J2-E	J2-U
	B	TB7-3	J2-J	DET. 32
	W	TB7-4	J2-K	J2-L
	B	TB7-5	J3-D	DET. 33
	W	TB7-6	J3-E	J3-U
	B	TB7-7	J3-J	DET. 34
	W	TB7-8	J3-K	J3-L
	B	TB7-9	J4-D	DET. 35
	W	TB7-10	J4-E	J4-U
	B	TB7-11	J4-J	DET. 36
	W	TB7-12	J4-K	J4-L

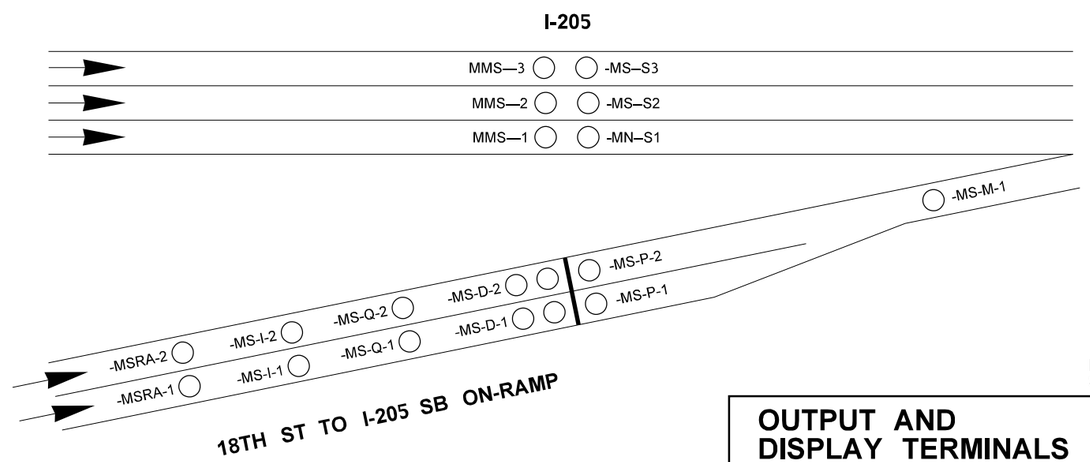
INPUT	FILE	TB8		
DET. 37	J5-D	TB8-1	B	
J5-U	J5-E	TB8-2	W	
DET. 38	J5-J	TB8-3	B	
J5-L	J5-K	TB8-4	W	
DET. 39	J6-D	TB8-5	B	
J6-U	J6-E	TB8-6	W	
DET. 40	J6-J	TB8-7	B	
J6-L	J6-K	TB8-8	W	
NOT USED		TB8-9		
		TB8-10		
		TB8-11		
		TB8-12		

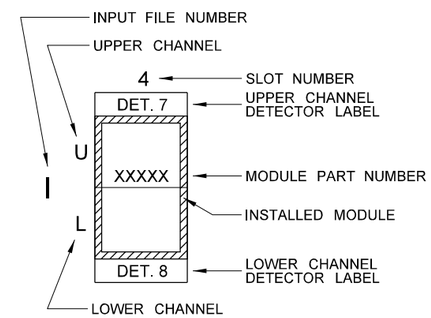
EVPs		TB9	INPUT	FILE
	Y	TB9-1	J13-D	EVP A J13-U
	O	TB9-2	J13-E	
	BL/DR	TB9-3	J13-K	
	Y	TB9-4	J13-J	EVP B J13-L
	O	TB9-5	J13-E	
	BL/DR	TB9-6	J13-K	
		TB9-7		
		TB9-8		
		TB9-9		
		TB9-10	NOT USED	
		TB9-11		
		TB9-12		

INPUT FILE LAYOUT AND MARKING DETAIL

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	MMS---3	MMS---2	MMS---1	-MSRA-2	-MS-I-2	-MS-Q-2	-MS-D-2	-MS-P-2	------	SPARE	SPARE	DET. 23	DET. 25	DET. 27
I U	CLICK 112	CLICK 112	CLICK 112	CLICK 112	LOOP DET. (BASE) CLICK 112 (A1&A2)	CLICK 112	CLICK 112	CLICK 112	CLICK 112	CLICK 112	LOOP DET. (BASE) CLICK 112 (A1&A2)			
I L	-MS--S3	-MS--S2	-MN--S1	-MSRA-1	-MS-I-1	-MS-Q-1	-MS-D-1	-MS-P-1	-MS-M-1	SPARE	SPARE	DET. 24	DET. 26	DET. 28
	DET. 29	DET. 31	DET. 33	DET. 35	DET. 37	DET. 39								
J U														
J L														
	DET. 30	DET. 32	DET. 34	DET. 36	DET. 38	DET. 40								

SLOTS J7 THROUGH J11 NOT USED





INPUT FILE SLOT LEGEND

NOTE:
SLOTS LABELED WITH "000" SHALL REMAIN UNLABELED.

NOTES:

1. CONTRACTOR SHALL PROVIDE ONE (1) 12" RS485 JUMBER CABLE PER CLICK CARD.
2. CONTRACTOR SHALL PROVIDE SIX (6) 3' CABLE FOR EVERY CLICK 656.

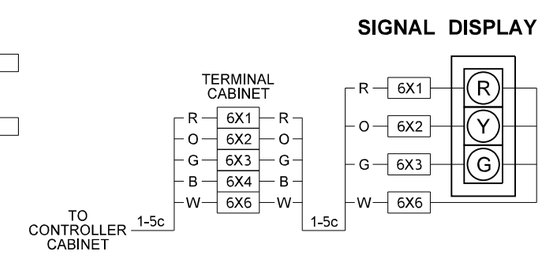
18TH ST

OUTPUT AND DISPLAY TERMINALS

T4

T4-7	611	R	
T4-8	612	O	11
T4-9	613	G	
T4-4	621	R	
T4-5	622	O	21
T4-6	623	G	
T4-1	631		
T4-2	632		
T4-3	633		

CABINET OUTPUT TERMINALS
BACK OF PDA #3LX



FIELD TERMINALS

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TIME	9:19:39 AM
DATE	11/1/2022
PLOTTED BY	fuestm
DESIGNED BY	M. FUEST
ENTERED BY	K. WACHTER
CHECKED BY	S. MERCER
PROJ. ENGR.	M. HARWOOD
REGIONAL ADM.	C. FRANCIS

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

SEE SHEET CT1
DATE
P.E. STAMP BOX

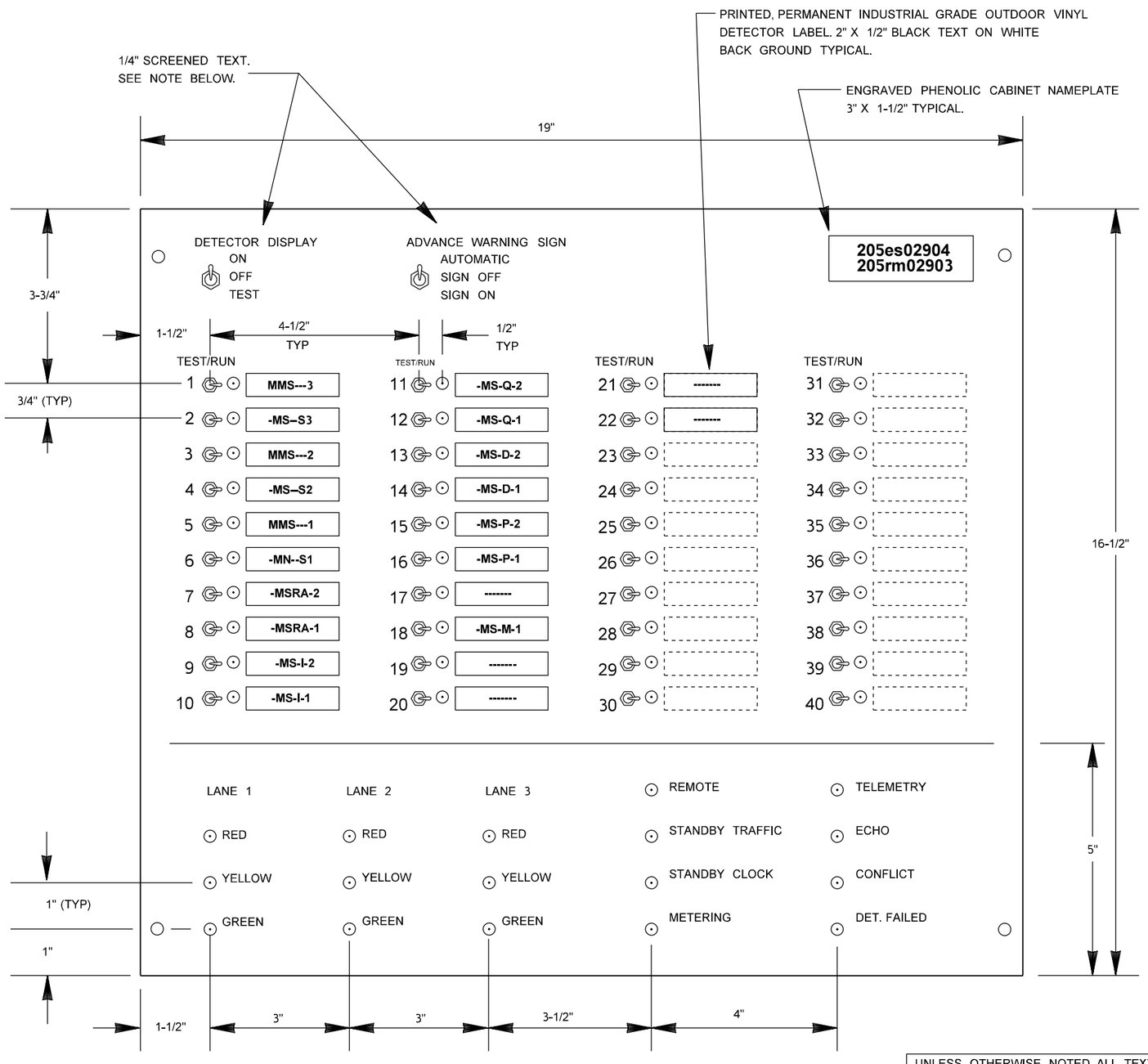
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 11
PLAN REF NO ITD11
SHEET 70 OF 164 SHEETS



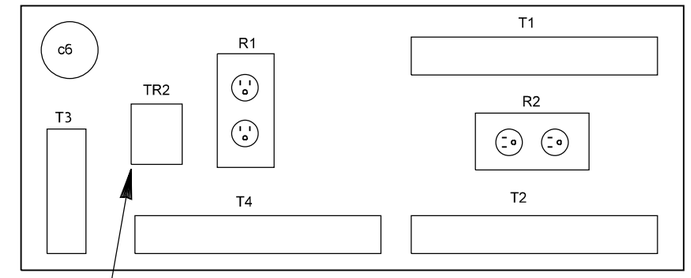
UNLESS OTHERWISE NOTED, ALL TEXT SHALL BE SCREENED DIRECTLY ON THE PANEL. TEXT SHALL BE 1/4" MINIMUM.

18TH ST - DISPLAY PANEL

NOT TO SCALE

POWER DISTRIBUTION ASSEMBLY (PDA) #3

(REAR VIEW)



PDA #3 MODIFICATIONS

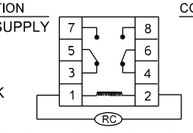
CONNECT	TO	FUNCTION
T2-8	T4-6	TR OUTPUT TO FIELD GRN 2
T2-6	MU-3	ENERGIZE TR WHEN MU IS NORMAL
T1-1, T1-2	SR-3	FIELD OUTPUT - SIGN ON
T1-3, T1-4	SR-4	FIELD OUTPUT - SIGN OFF

ADD TRANSFER RELAY #2 AS SHOWN.

TRANSFER RELAY

(FRONT PANEL OF PDA #3)

CONNECT TO	FUNCTION	CONNECT TO	FUNCTION
SWPK1-1	AC+ SUPPLY	SWPK2-7	GRN-2
CB 3	AC+	T4-6	GRN OUTPUT
NC	NA	TR-5	AC+
T2-6	MU-OK	T2-2	AC-

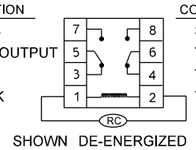


SHOWN DE-ENERGIZED
ENERGIZED BY MONITOR UNIT NORMAL

TRANSFER RELAY #2

(MODEL 430)

CONNECT TO	FUNCTION	CONNECT TO	FUNCTION
SWPK3-7	GRN-3	SWPK1-7	GRN-1
T4-3	GRN OUTPUT	T4-9	GRN OUTPUT
CB3	AC+	TR2-3	AC+
T2-6	MU-OK	T2-2	AC-



SHOWN DE-ENERGIZED
ENERGIZED BY MONITOR UNIT NORMAL

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn			
TIME	9:19:41 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	K. WACHTER			
CHECKED BY	S. MERCER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 12
PLAN REF NO
ITD12
SHEET 71 OF 164 SHEETS

CABINET INPUT WIRE TERMINATIONS

INPUT	FILE	TB2		DETECTOR ID
DET. 1	I1-D	TB2-1	B	
I1-U	I1-E	TB2-2	W	
DET. 2	I1-J	TB2-3	B	
I1-L	I1-K	TB2-4	W	
DET. 3	I2-D	TB2-5	B	
I2-U	I2-E	TB2-6	W	
DET. 4	I2-J	TB2-7	B	
I2-L	I2-K	TB2-8	W	
DET. 5	I3-D	TB2-9	B	
I3-U	I3-E	TB2-10	W	
DET. 6	I3-J	TB2-11	B	
I3-L	I3-K	TB2-12	W	

DETECTOR ID			TB5	INPUT	FILE
	B		TB5-1	I10-D	DET. 19
	W		TB5-2	I10-E	I10-U
-MS-M-1	B		TB5-3	I10-J	DET. 20
(BASE & A2)	W		TB5-4	I10-K	I10-L
	B		TB5-5	I11-D	DET. 21
	W		TB5-6	I11-E	I11-U
	B		TB5-7	I11-J	DET. 22
	W		TB5-8	I11-K	I11-L
	B		TB5-9	I12-D	DET. 23
	W		TB5-10	I12-E	I12-U
	B		TB5-11	I12-J	DET. 24
	W		TB5-12	I12-K	I12-L

INPUT	FILE	TB3		
DET. 7	I4-D	TB3-1	B	
I4-U	I4-E	TB3-2	W	
DET. 8	I4-J	TB3-3	B	
I4-L	I4-K	TB3-4	W	
DET. 9	I5-D	TB3-5	B	-MS-I-2
I5-U	I5-E	TB3-6	W	(BASE)
DET. 10	I5-J	TB3-7	B	-MS-I-1
I5-L	I5-K	TB3-8	W	(BASE)
DET. 11	I6-D	TB3-9	B	
I6-U	I6-E	TB3-10	W	
DET. 12	I6-J	TB3-11	B	
I6-L	I6-K	TB3-12	W	

			TB6	INPUT	FILE
	B		TB6-1	I13-D	DET. 25
	W		TB6-2	I13-E	I13-U
	B		TB6-3	I13-J	DET. 26
	W		TB6-4	I13-K	I13-L
	B		TB6-5	I14-D	DET. 27
	W		TB6-6	I14-E	I14-U
	B		TB6-7	I14-J	DET. 28
	W		TB6-8	I14-K	I14-L
	B		TB6-9	J1-D	DET. 29
	W		TB6-10	J1-E	J1-U
	B		TB6-11	J1-J	DET. 30
	W		TB6-12	J1-K	J1-L

INPUT	FILE	TB4		
DET. 13	I7-D	TB4-1	B	
I7-U	I7-E	TB4-2	W	
DET. 14	I7-J	TB4-3	B	
I7-L	I7-K	TB4-4	W	
DET. 15	I8-D	TB4-5	B	
I8-U	I8-E	TB4-6	W	
DET. 16	I8-J	TB4-7	B	
I8-L	I8-K	TB4-8	W	
DET. 17	I9-D	TB4-9	B	
I9-U	I9-E	TB4-10	W	
DET. 18	I9-J	TB4-11	B	
I9-L	I9-K	TB4-12	W	

			TB7	INPUT	FILE
	B		TB7-1	J2-D	DET. 31
	W		TB7-2	J2-E	J2-U
	B		TB7-3	J2-J	DET. 32
	W		TB7-4	J2-K	J2-L
	B		TB7-5	J3-D	DET. 33
	W		TB7-6	J3-E	J3-U
	B		TB7-7	J3-J	DET. 34
	W		TB7-8	J3-K	J3-L
	B		TB7-9	J4-D	DET. 35
	W		TB7-10	J4-E	J4-U
	B		TB7-11	J4-J	DET. 36
	W		TB7-12	J4-K	J4-L

INPUT	FILE	TB8		
DET. 37	J5-D	TB8-1	B	
J5-U	J5-E	TB8-2	W	
DET. 38	J5-J	TB8-3	B	
J5-L	J5-K	TB8-4	W	
DET. 39	J6-D	TB8-5	B	
J6-U	J6-E	TB8-6	W	
DET. 40	J6-J	TB8-7	B	
J6-L	J6-K	TB8-8	W	
NOT USED		TB8-9		
		TB8-10		
		TB8-11		
		TB8-12		

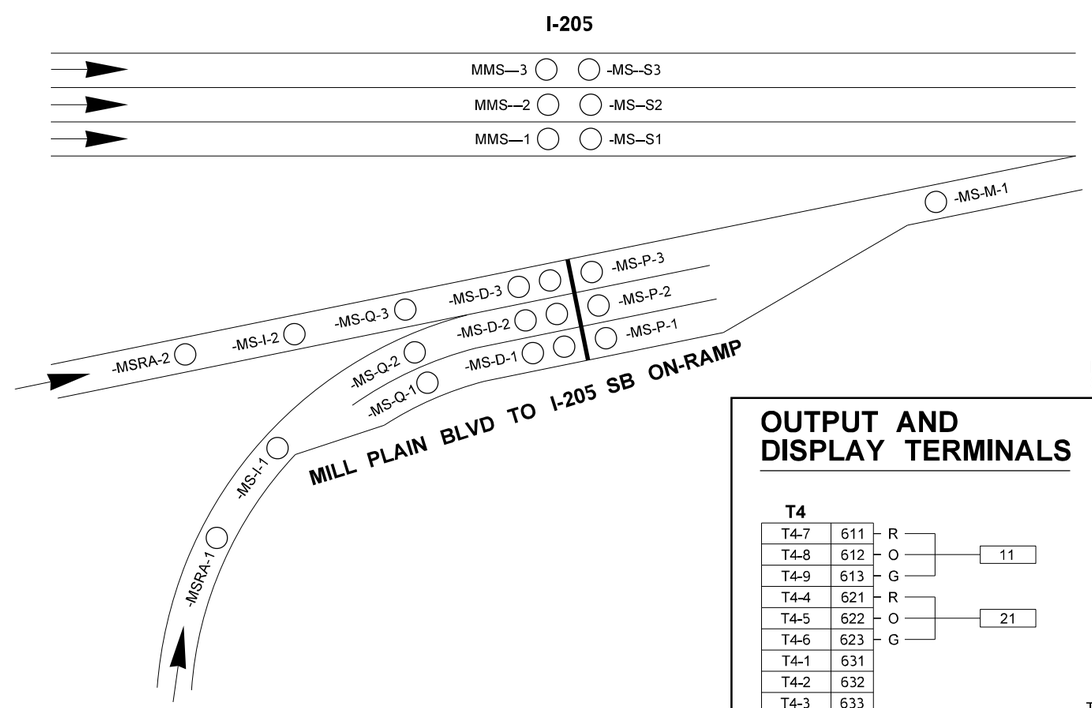
EVPs			TB9	INPUT	FILE
	Y		TB9-1	J13-D	EVP A J13-U
	O		TB9-2	J13-E	
	BL/DR		TB9-3	J13-K	
	Y		TB9-4	J13-J	EVP B J13-L
	O		TB9-5	J13-E	
	BL/DR		TB9-6	J13-K	
			TB9-7		
			TB9-8		
			TB9-9		
			TB9-10		
			TB9-11		
			TB9-12		

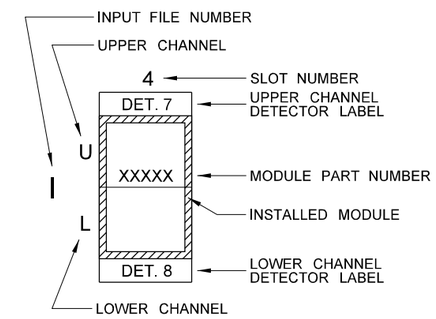
NOT USED

INPUT FILE LAYOUT AND MARKING DETAIL

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	MMS—3	MMS—2	MMS—1	-MSRA-2	-MS-I-2	-------	-MS-D-2	-------	-MS-P-2	-------	SPARE	SPARE	DET. 25	DET. 27
I U	CLICK 112	CLICK 112	CLICK 112	CLICK 112	LOOP DET. (BASE)	CLICK 112	CLICK 112	CLICK 112	CLICK 112	LOOP DET. (BASE)	CLICK 112	LOOP DET. (BASE)		
I L					CLICK 112 (A1&A2)					CLICK 112 (A1&A2)		CLICK 112 (A1&A2)		
	-MS–S3	-MS–S2	-MN–S1	-MSRA-1	-MS-I-1	-MS-D-3	-MS-D-1	-MS-P-3	-MS-P-1	-MS-M-1	SPARE	SPARE	DET. 26	DET. 28
	DET. 29	DET. 31	DET. 33	DET. 35	DET. 37	DET. 39								
J U														
J L														
	DET. 30	DET. 32	DET. 34	DET. 36	DET. 38	DET. 40								

SLOTS J7 THROUGH J11 NOT USED





INPUT FILE SLOT LEGEND

NOTE:
SLOTS LABELED WITH "000" SHALL REMAIN UNLABELED.

NOTES:

1. CONTRACTOR SHALL PROVIDE ONE (1) 12" RS485 JUMBER CABLE PER CLICK CARD.
2. CONTRACTOR SHALL PROVIDE SIX (6) 3' CABLE FOR EVERY CLICK 656.

MILL PLAIN BLVD

OUTPUT AND DISPLAY TERMINALS

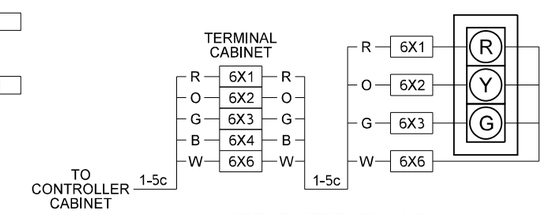
T4

T4-7	611	R	
T4-8	612	O	11
T4-9	613	G	
T4-4	621	R	
T4-5	622	O	21
T4-6	623	G	
T4-1	631		
T4-2	632		
T4-3	633		

CABINET OUTPUT TERMINALS

BACK OF PDA #3LX

SIGNAL DISPLAY



FIELD TERMINALS

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn
TIME	9:19:44 AM
DATE	11/1/2022
PLOTTED BY	fuestm
DESIGNED BY	M. FUEST
ENTERED BY	K. WACHTER
CHECKED BY	S. MERCER
PROJ. ENGR.	M. HARWOOD
REGIONAL ADM.	C. FRANCIS

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MARK A. HARWOOD DILLON, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

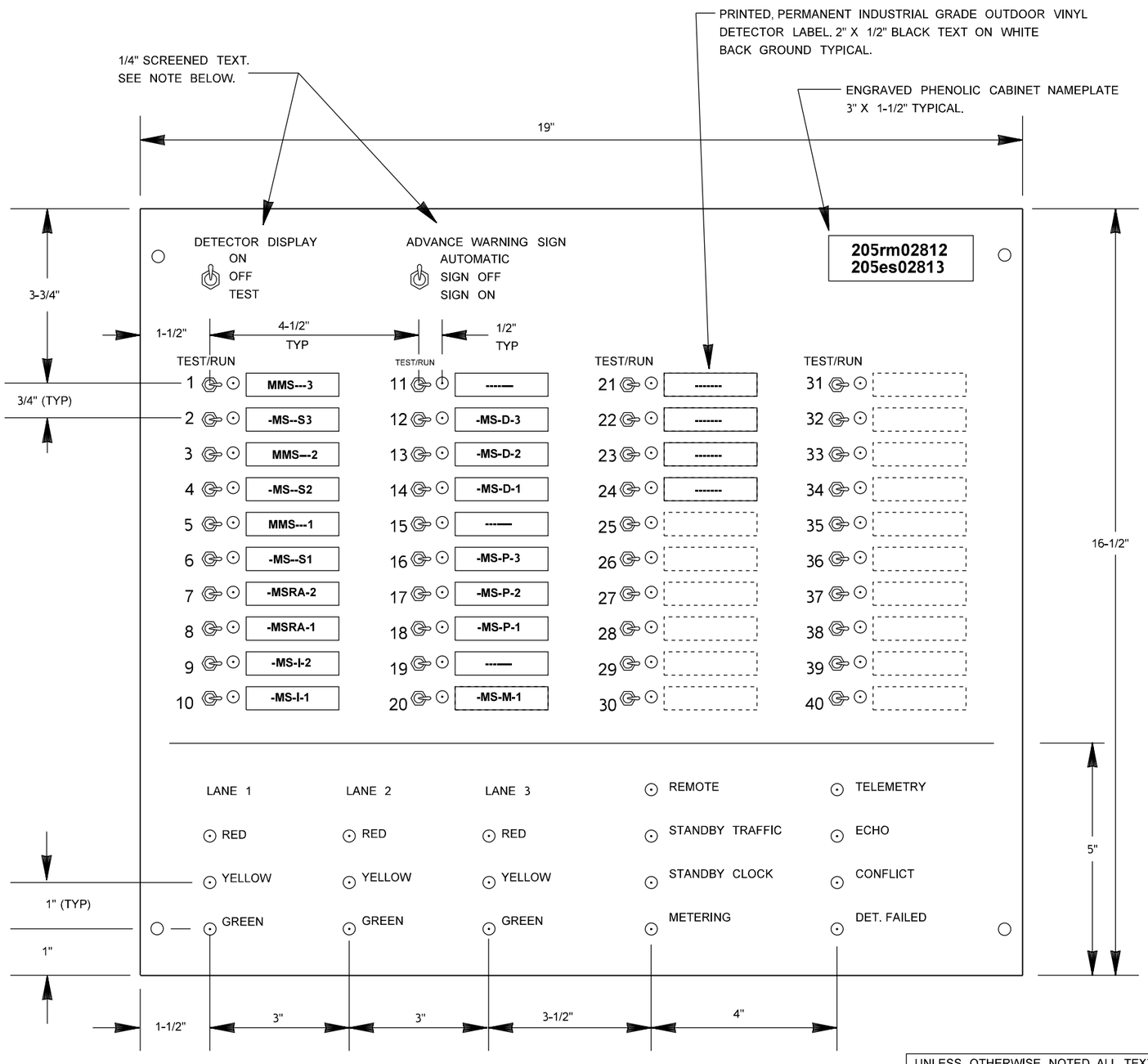
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 13

PLAN REF NO ITD13

SHEET 72 OF 164 SHEETS



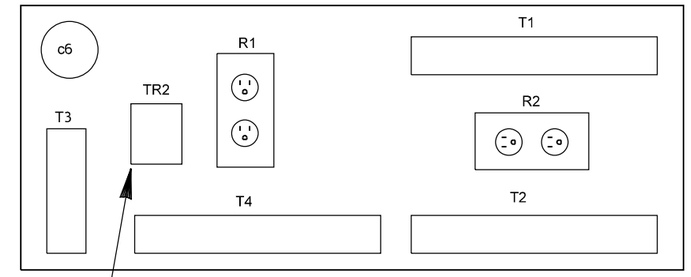
UNLESS OTHERWISE NOTED, ALL TEXT SHALL BE SCREENED DIRECTLY ON THE PANEL. TEXT SHALL BE 1/4" MINIMUM.

MILL PLAIN BLVD - DISPLAY PANEL

NOT TO SCALE

POWER DISTRIBUTION ASSEMBLY (PDA) #3

(REAR VIEW)



PDA #3 MODIFICATIONS

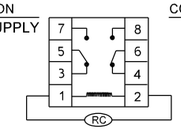
CONNECT	TO	FUNCTION
T2-8	T4-6	TR OUTPUT TO FIELD GRN 2
T2-6	MU-3	ENERGIZE TR WHEN MU IS NORMAL
T1-1, T1-2	SR-3	FIELD OUTPUT - SIGN ON
T1-3, T1-4	SR-4	FIELD OUTPUT - SIGN OFF

ADD TRANSFER RELAY #2 AS SHOWN.

TRANSFER RELAY

(FRONT PANEL OF PDA #3)

CONNECT TO	FUNCTION	CONNECT TO	FUNCTION
SWPK1-1	AC+ SUPPLY	SWPK2-7	GRN-2
CB 3	AC+	T4-6	GRN OUTPUT
NC	NA	TR-5	AC+
T2-6	MU-OK	T2-2	AC-

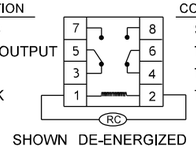


SHOWN DE-ENERGIZED
ENERGIZED BY MONITOR UNIT NORMAL

TRANSFER RELAY #2

(MODEL 430)

CONNECT TO	FUNCTION	CONNECT TO	FUNCTION
SWPK3-7	GRN-3	SWPK1-7	GRN-1
T4-3	GRN OUTPUT	T4-9	GRN OUTPUT
CB3	AC+	TR2-3	AC+
T2-6	MU-OK	T2-2	AC-



SHOWN DE-ENERGIZED
ENERGIZED BY MONITOR UNIT NORMAL

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn			
TIME	9:19:49 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	K. WACHTER			
CHECKED BY	S. MERCER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 14
PLAN REF NO
ITD14
SHEET 73 OF 164 SHEETS

CABINET INPUT WIRE TERMINATIONS

INPUT	FILE	TB2		DETECTOR ID
DET. 1	I1-D	TB2-1	B	
I1-U	I1-E	TB2-2	W	
DET. 2	I1-J	TB2-3	B	
I1-L	I1-K	TB2-4	W	
DET. 3	I2-D	TB2-5	B	
I2-U	I2-E	TB2-6	W	
DET. 4	I2-J	TB2-7	B	
I2-L	I2-K	TB2-8	W	
DET. 5	I3-D	TB2-9	B	
I3-U	I3-E	TB2-10	W	
DET. 6	I3-J	TB2-11	B	
I3-L	I3-K	TB2-12	W	

DETECTOR ID		TB5	INPUT	FILE
	B	TB5-1	I10-D	DET. 19
	W	TB5-2	I10-E	I10-U
	B	TB5-3	I10-J	DET. 20
	W	TB5-4	I10-K	I10-L
	B	TB5-5	I11-D	DET. 21
	W	TB5-6	I11-E	I11-U
	B	TB5-7	I11-J	DET. 22
	W	TB5-8	I11-K	I11-L
	B	TB5-9	I12-D	DET. 23
	W	TB5-10	I12-E	I12-U
	B	TB5-11	I12-J	DET. 24
	W	TB5-12	I12-K	I12-L

INPUT	FILE	TB3		
DET. 7	I4-D	TB3-1	B	
I4-U	I4-E	TB3-2	W	
DET. 8	I4-J	TB3-3	B	
I4-L	I4-K	TB3-4	W	
DET. 9	I5-D	TB3-5	B	
I5-U	I5-E	TB3-6	W	
DET. 10	I5-J	TB3-7	B	
I5-L	I5-K	TB3-8	W	
DET. 11	I6-D	TB3-9	B	
I6-U	I6-E	TB3-10	W	
DET. 12	I6-J	TB3-11	B	
I6-L	I6-K	TB3-12	W	

		TB6	INPUT	FILE
	B	TB6-1	I13-D	DET. 25
	W	TB6-2	I13-E	I13-U
	B	TB6-3	I13-J	DET. 26
	W	TB6-4	I13-K	I13-L
	B	TB6-5	I14-D	DET. 27
	W	TB6-6	I14-E	I14-U
	B	TB6-7	I14-J	DET. 28
	W	TB6-8	I14-K	I14-L
	B	TB6-9	J1-D	DET. 29
	W	TB6-10	J1-E	J1-U
	B	TB6-11	J1-J	DET. 30
	W	TB6-12	J1-K	J1-L

INPUT	FILE	TB4		
DET. 13	I7-D	TB4-1	B	
I7-U	I7-E	TB4-2	W	
DET. 14	I7-J	TB4-3	B	
I7-L	I7-K	TB4-4	W	
DET. 15	I8-D	TB4-5	B	
I8-U	I8-E	TB4-6	W	
DET. 16	I8-J	TB4-7	B	
I8-L	I8-K	TB4-8	W	
DET. 17	I9-D	TB4-9	B	
I9-U	I9-E	TB4-10	W	
DET. 18	I9-J	TB4-11	B	
I9-L	I9-K	TB4-12	W	

		TB7	INPUT	FILE
	B	TB7-1	J2-D	DET. 31
	W	TB7-2	J2-E	J2-U
	B	TB7-3	J2-J	DET. 32
	W	TB7-4	J2-K	J2-L
	B	TB7-5	J3-D	DET. 33
	W	TB7-6	J3-E	J3-U
	B	TB7-7	J3-J	DET. 34
	W	TB7-8	J3-K	J3-L
	B	TB7-9	J4-D	DET. 35
	W	TB7-10	J4-E	J4-U
	B	TB7-11	J4-J	DET. 36
	W	TB7-12	J4-K	J4-L

INPUT	FILE	TB8		
DET. 37	J5-D	TB8-1	B	
J5-U	J5-E	TB8-2	W	
DET. 38	J5-J	TB8-3	B	
J5-L	J5-K	TB8-4	W	
DET. 39	J6-D	TB8-5	B	
J6-U	J6-E	TB8-6	W	
DET. 40	J6-J	TB8-7	B	
J6-L	J6-K	TB8-8	W	
NOT USED		TB8-9		
		TB8-10		
		TB8-11		
		TB8-12		

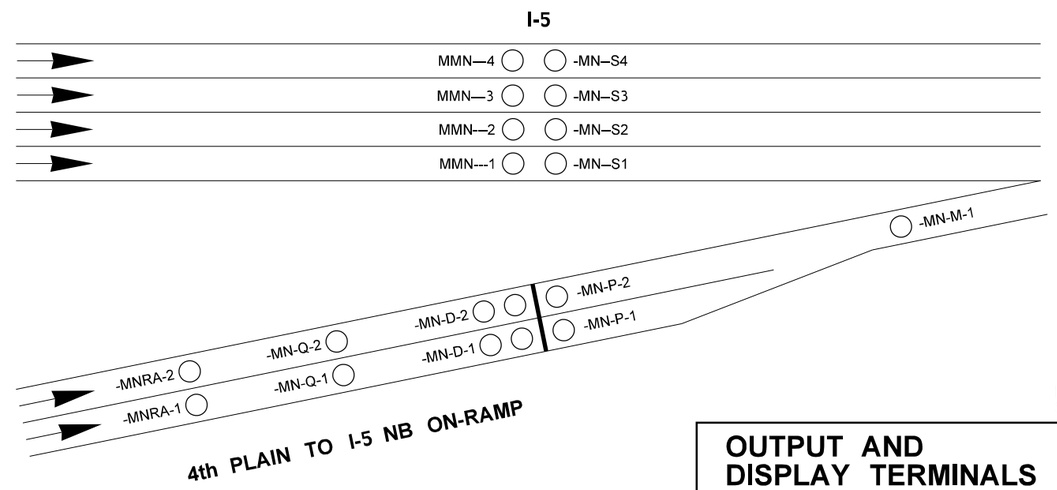
EVPs		TB9	INPUT	FILE
	Y	TB9-1	J13-D	EVP A J13-U
	O	TB9-2	J13-E	
	BL/DR	TB9-3	J13-K	
	Y	TB9-4	J13-J	EVP B J13-L
	O	TB9-5	J13-E	
	BL/DR	TB9-6	J13-K	
		TB9-7		
		TB9-8		
		TB9-9		
		TB9-10		
		TB9-11		
		TB9-12		

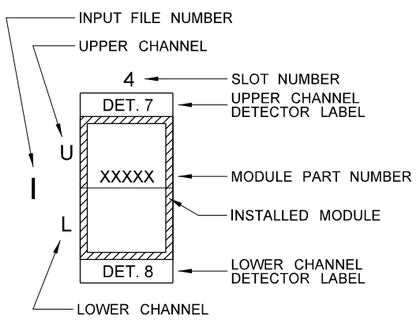
NOT USED

INPUT FILE LAYOUT AND MARKING DETAIL

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	MMN--4	MMN--3	MMN--2	MMN--1	-MNRA-2	-MN-Q-2	-MN-D-2	-MN-P-2	------	SPARE	SPARE	DET. 23	DET. 25	DET. 27
I U	CLICK 112	CLICK 112	CLICK 112	CLICK 112	CLICK 112	CLICK 112	CLICK 112	CLICK 112	CLICK 112	CLICK 112	CLICK 112			
I L	-MN--S4	-MN--S3	-MN--S2	-MN--S1	-MNRA-1	-MN-Q-1	-MN-D-1	-MN-P-1	-MN-M-1	SPARE	SPARE	DET. 24	DET. 26	DET. 28
	DET. 29	DET. 31	DET. 33	DET. 35	DET. 37	DET. 39								
J U														
J L														
	DET. 30	DET. 32	DET. 34	DET. 36	DET. 38	DET. 40								

SLOTS J7 THROUGH J11 NOT USED





INPUT FILE SLOT LEGEND

NOTE:
SLOTS LABELED WITH "000" SHALL REMAIN UNLABELED.

NOTES:

1. CONTRACTOR SHALL PROVIDE ONE (1) 12" RS485 JUMBER CABLE PER CLICK CARD.
2. CONTRACTOR SHALL PROVIDE SIX (6) 3' CABLE FOR EVERY CLICK 656.

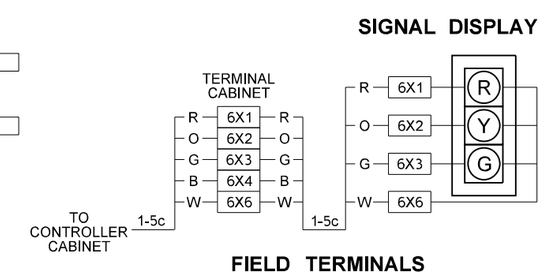
4TH PLAIN

OUTPUT AND DISPLAY TERMINALS

T4

T4-7	611	R	11
T4-8	612	O	
T4-9	613	G	
T4-4	621	R	21
T4-5	622	O	
T4-6	623	G	
T4-1	631		
T4-2	632		
T4-3	633		

CABINET OUTPUT TERMINALS
BACK OF PDA #3LX



FIELD TERMINALS

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn
TIME	9:19:52 AM
DATE	11/1/2022
PLOTTED BY	fuestm
DESIGNED BY	M. FUEST
ENTERED BY	K. WACHTER
CHECKED BY	S. MERCER
PROJ. ENGR.	M. HARWOOD
REGIONAL ADM.	C. FRANCIS

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MARCUS O. HARWOOD JR. STATE OF WASHINGTON 39399 REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

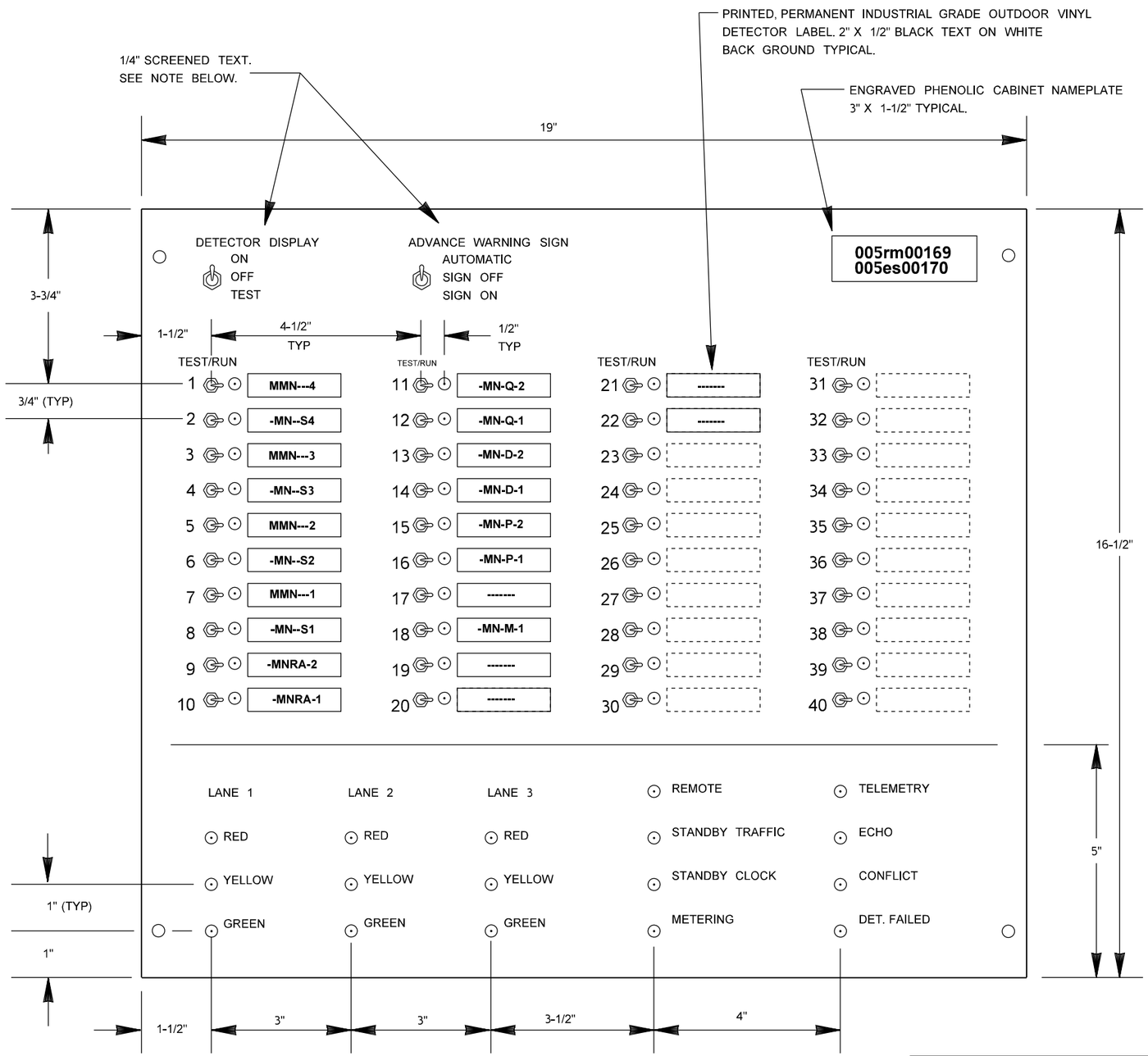
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 15
PLAN REF NO ITD15
SHEET 74 OF 164 SHEETS



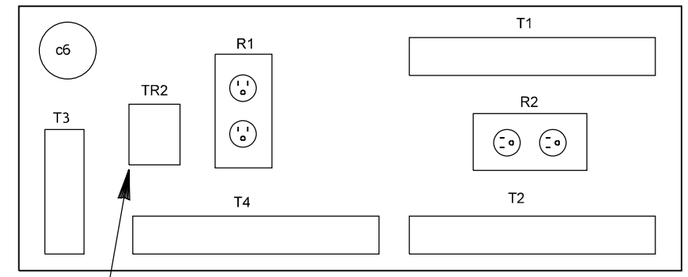
UNLESS OTHERWISE NOTED, ALL TEXT SHALL BE SCREENED DIRECTLY ON THE PANEL. TEXT SHALL BE 1/4" MINIMUM.

4TH PLAIN - DISPLAY PANEL

NOT TO SCALE

POWER DISTRIBUTION ASSEMBLY (PDA) #3

(REAR VIEW)



PDA #3 MODIFICATIONS

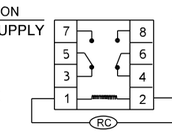
CONNECT	TO	FUNCTION
T2-8	T4-6	TR OUTPUT TO FIELD GRN 2
T2-6	MU-3	ENERGIZE TR WHEN MU IS NORMAL
T1-1, T1-2	SR-3	FIELD OUTPUT - SIGN ON
T1-3, T1-4	SR-4	FIELD OUTPUT - SIGN OFF

ADD TRANSFER RELAY #2 AS SHOWN.

TRANSFER RELAY

(FRONT PANEL OF PDA #3)

CONNECT TO	FUNCTION	CONNECT TO	FUNCTION
SWPK1-1	AC+ SUPPLY	SWPK2-7	GRN-2
CB 3	AC+	T4-6	GRN OUTPUT
NC	NA	TR-5	AC+
T2-6	MU-OK	T2-2	AC-

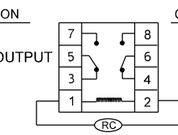


SHOWN DE-ENERGIZED
ENERGIZED BY MONITOR UNIT NORMAL

TRANSFER RELAY #2

(MODEL 430)

CONNECT TO	FUNCTION	CONNECT TO	FUNCTION
SWPK3-7	GRN-3	SWPK1-7	GRN-1
T4-3	GRN OUTPUT	T4-9	GRN OUTPUT
CB3	AC+	TR2-3	AC+
T2-6	MU-OK	T2-2	AC-



SHOWN DE-ENERGIZED
ENERGIZED BY MONITOR UNIT NORMAL

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn						
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DATE	11/1/2022						
PLOTTED BY	fuestm				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST						
ENTERED BY	K. WACHTER						
CHECKED BY	S. MERCER				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

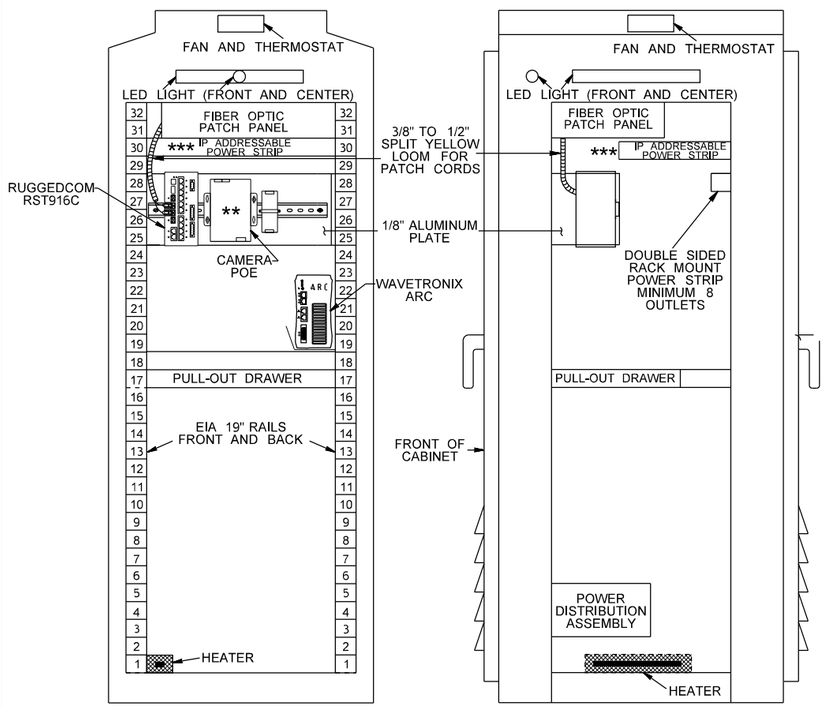
ITS DETAILS

Plot 16
PLAN REF NO ITD16
SHEET 75 OF 164 SHEETS

NOTES:

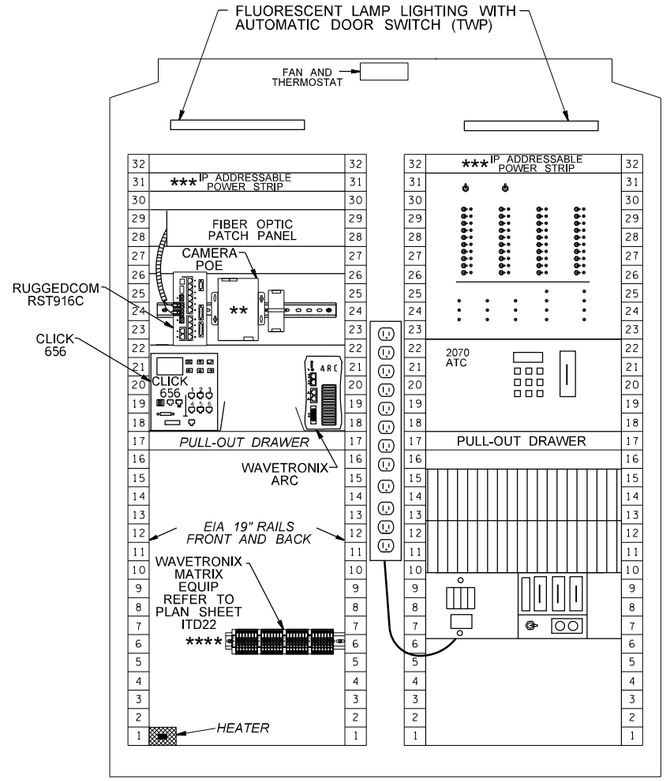
1. ALL CABLES SHALL BE MOUNTED OR PLACED OUT OF THE WAY AS TO NOT OBSTRUCT THE CABINET PULL-OUT DRAWER.
2. ALL LIGHTS SHALL COME ON WHEN ANY DOOR IS OPENED.
3. INSTALL POWER STRIP WITH A MINIMUM OF 12 OUTLETS ON INSIDE OF REAR VERTICAL SUPPORT. CONNECT POWER CORD TO "R2" OUTLET ON PDA.
4. INSTALL HEATER ON COMMUNICATION SIDE OF THE CABINET.

331L ITS CABINET
205es03693



FRONT VIEW **SIDE VIEW**

334D RAMP METER CABINET
205es03667/ 205rm03666



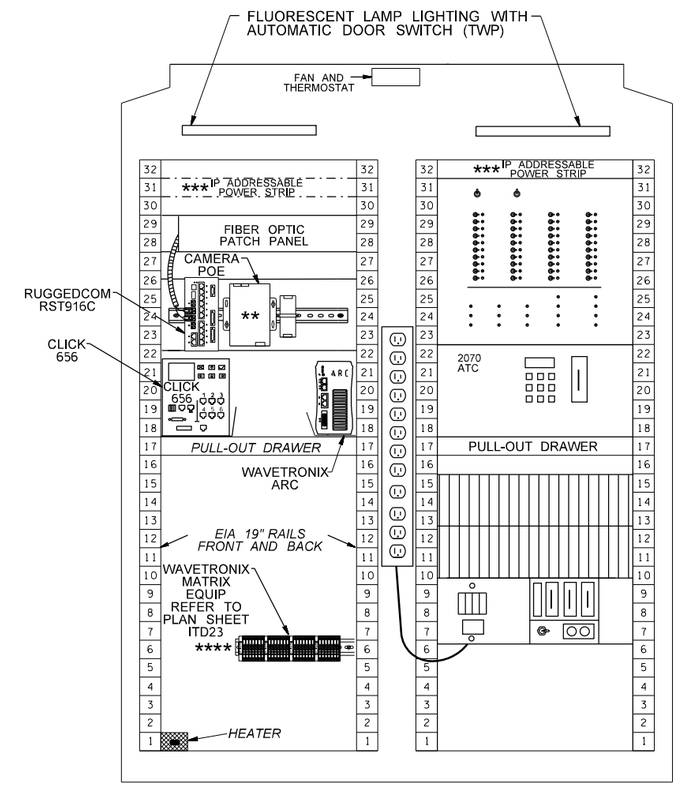
FRONT

** REFER TO DETAIL SHEET ITD11 FOR WAVETRONIX ITS CABINET EQUIP. AND CAMERA COMMUNICATION PANEL

*** IP ADDRESSABLE POWER STRIP SHALL HAVE A MIN 10 FT INPUT POWER CABLE WITH NEMA 5-15P PLUG, MIN QTY. OF 8 NEMA 5-15/20 RECEPTACLES, CIRCUIT PROTECTION TYPE SHALL BE CIRCUIT BREAKER, INCLUDED SURGE SUPPRESSION, LCD DISPLAY, AND 15A MIN CURRENT CAPACITY. 5-15/20 RECEPTACLE SHALL MOUNTED IN THE REAR OF THE CABINET FACING THE REAR DOOR.

**** TO BE INSTALLED ON THE REAR SIDE OF THE CABINET.

334D RAMP METER CABINET
205rm03311/ 205es03321



FRONT

CABINET AND EQUIPMENT DETAIL

NOT TO SCALE

- - - - - EXISTING
——— NEW

NOTES:

1. CONTRACTOR SHALL PROVIDE ONE (1) 12" RS485 JUMBER CABLE PER CLICK CARD.
2. CONTRACTOR SHALL PROVIDE SIX (6) 3' CABLE FOR EVERY CLICK 656.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn						
TIME	9:19:59 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
DATE	11/1/2022	REVISED NEMA BOX MOUNT TO MATCH NOTE	4/28/2021	MF			
PLOTTED BY	fuestm				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST						
ENTERED BY	K. WACHTER						
CHECKED BY	S. MERCER				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA JO HARWOOD DUNCAN — STATE OF WASHINGTON — 39399 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 — DATE — P.E. STAMP BOX

DATE — P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 17

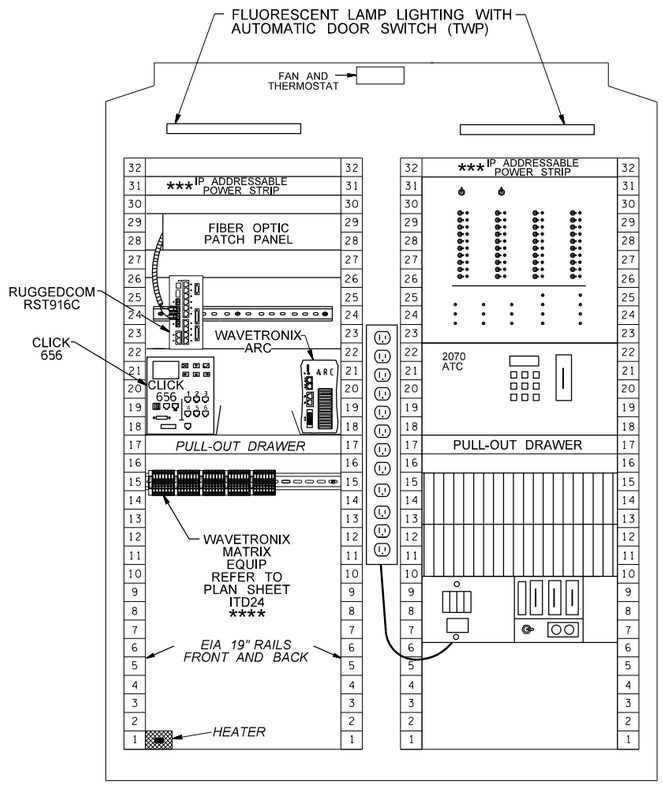
PLAN REF NO ITD17

SHEET 76 OF 164 SHEETS

NOTES:

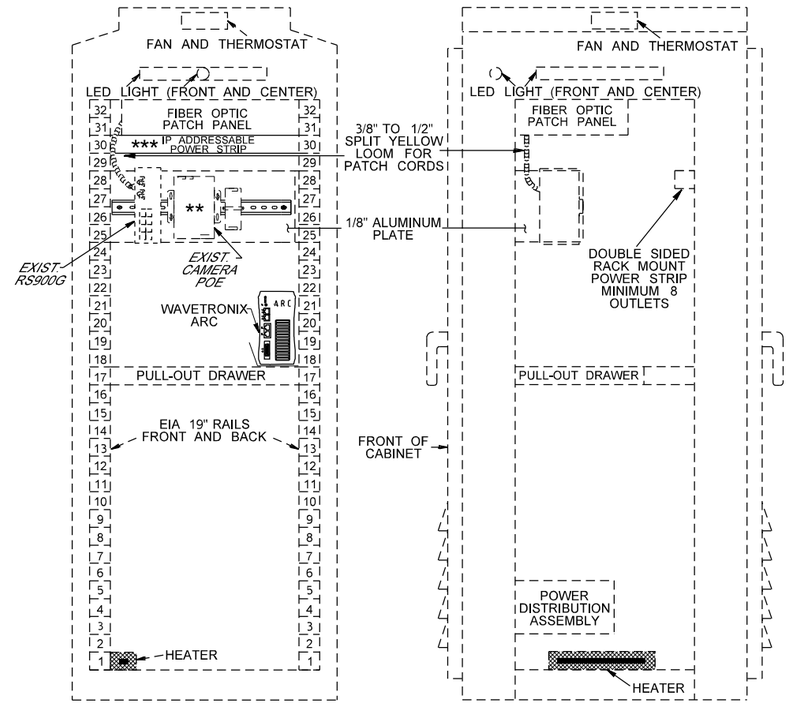
1. ALL CABLES SHALL BE MOUNTED OR PLACED OUT OF THE WAY AS TO NOT OBSTRUCT THE CABINET PULL-OUT DRAWER.
2. ALL LIGHTS SHALL COME ON WHEN ANY DOOR IS OPENED.
3. INSTALL POWER STRIP WITH A MINIMUM OF 12 OUTLETS ON INSIDE OF REAR VERTICAL SUPPORT. CONNECT POWER CORD TO "R2" OUTLET ON PDA.
4. INSTALL HEATER ON COMMUNICATION SIDE OF THE CABINET.

334D RAMP METER CABINET
205rm03288/ 205es03290



FRONT

EXIST. 331L ITS CABINET
205vc03260



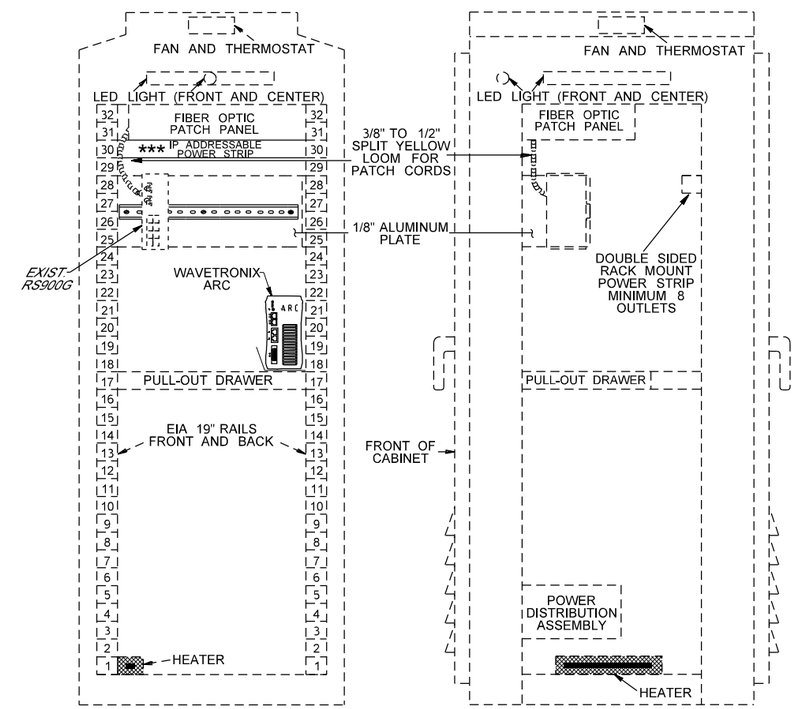
FRONT VIEW **SIDE VIEW**

** REFER TO DETAIL SHEET ITD11 FOR WAVETRONIX ITS CABINET EQUIP. AND CAMERA COMMUNICATION PANEL

*** IP ADDRESSABLE POWER STRIP SHALL HAVE A MIN 10 FT INPUT POWER CABLE WITH NEMA 5-15P PLUG, MIN QTY. OF 8 NEMA 5-15/20 RECEPTACLES, CIRCUIT PROTECTION TYPE SHALL BE CIRCUIT BREAKER, INCLUDED SURGE SUPPRESSION, LCD DISPLAY, AND 15A MIN CURRENT CAPACITY. 5-15/20 RECEPTACLE SHALL MOUNTED IN THE REAR OF THE CABINET FACING THE REAR DOOR.

**** TO BE INSTALLED ON THE REAR SIDE OF THE CABINET.

EXIST. 331L ITS CABINET
205vc03245



FRONT VIEW **SIDE VIEW**

NOTES:

1. CONTRACTOR SHALL PROVIDE ONE (1) 12" RS485 JUMBER CABLE PER CLICK CARD.
2. CONTRACTOR SHALL PROVIDE SIX (6) 3' CABLE FOR EVERY CLICK 656.

CABINET AND EQUIPMENT DETAIL

NOT TO SCALE

- - - - - EXISTING
——— NEW

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn						
TIME	9:20:04 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
DATE	11/1/2022						
PLOTTED BY	fuestm				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST						
ENTERED BY	K. WACHTER						
CHECKED BY	S. MERCER				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

SEE SHEET CT1 DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

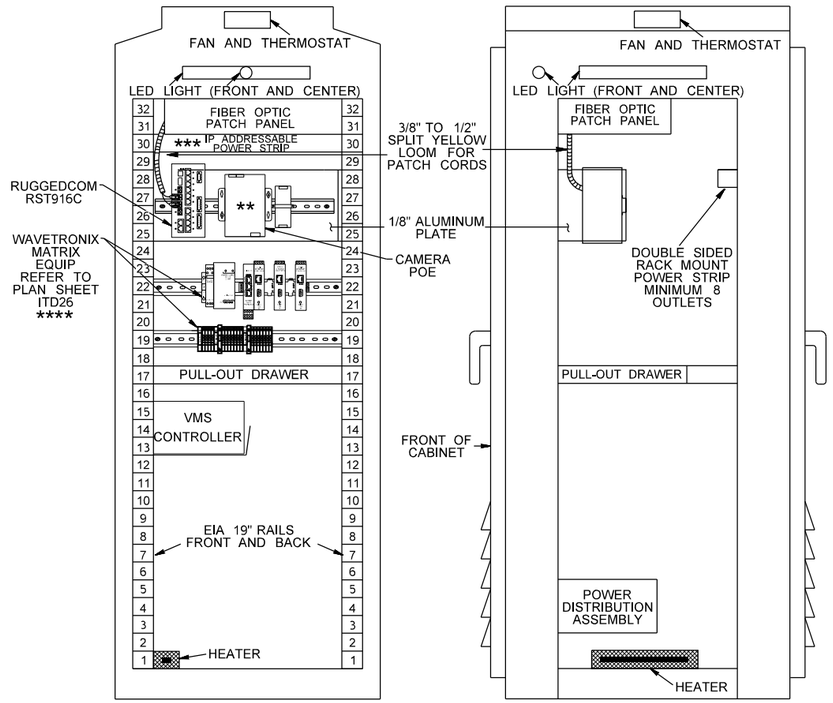
ITS DETAILS

Plot 18
PLAN REF NO **ITD18**
SHEET 77 OF 164 SHEETS

NOTES:

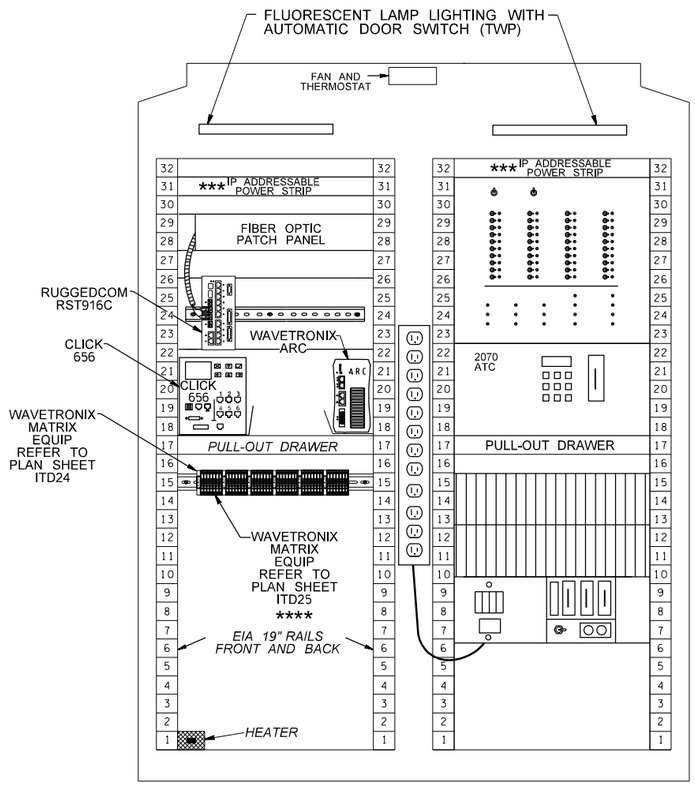
1. ALL CABLES SHALL BE MOUNTED OR PLACED OUT OF THE WAY AS TO NOT OBSTRUCT THE CABINET PULL-OUT DRAWER.
2. ALL LIGHTS SHALL COME ON WHEN ANY DOOR IS OPENED.
3. INSTALL POWER STRIP WITH A MINIMUM OF 12 OUTLETS ON INSIDE OF REAR VERTICAL SUPPORT. CONNECT POWER CORD TO "R2" OUTLET ON PDA.
4. INSTALL HEATER ON COMMUNICATION SIDE OF THE CABINET.

VMS CABINET
500vm00442



FRONT VIEW **SIDE VIEW**

334D RAMP METER CABINET
205rm03068/ 205es03069



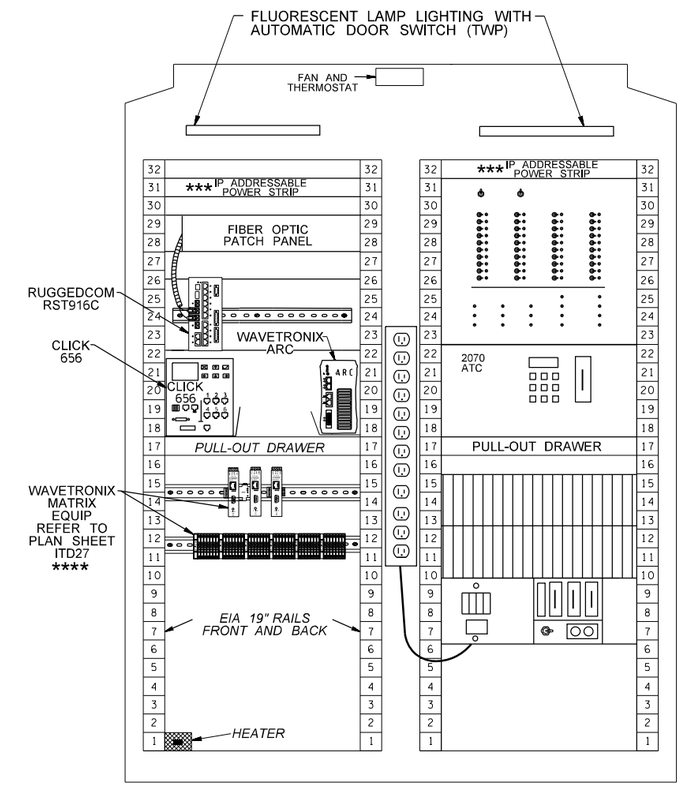
FRONT

** REFER TO DETAIL SHEET ITD11 FOR WAVETRONIX ITS CABINET EQUIP. AND CAMERA COMMUNICATION PANEL

*** IP ADDRESSABLE POWER STRIP SHALL HAVE A MIN 10 FT INPUT POWER CABLE WITH NEMA 5-15P PLUG, MIN QTY. OF 8 NEMA 5-15/20 RECEPTACLES, CIRCUIT PROTECTION TYPE SHALL BE CIRCUIT BREAKER, INCLUDED SURGE SUPPRESSION, LCD DISPLAY, AND 15A MIN CURRENT CAPACITY. 5-15/20 RECEPTACLE SHALL MOUNTED IN THE REAR OF THE CABINET FACING THE REAR DOOR.

**** TO BE INSTALLED ON THE REAR SIDE OF THE CABINET.

334D RAMP METER CABINET
205rm03070



FRONT

CABINET AND EQUIPMENT DETAIL

NOT TO SCALE

- - - - - EXISTING
——— NEW

NOTES:

1. CONTRACTOR SHALL PROVIDE ONE (1) 12" RS485 JUMBER CABLE PER CLICK CARD.
2. CONTRACTOR SHALL PROVIDE SIX (6) 3' CABLE FOR EVERY CLICK 656.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn			
TIME	9:20:09 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	K. WACHTER			
CHECKED BY	S. MERCER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

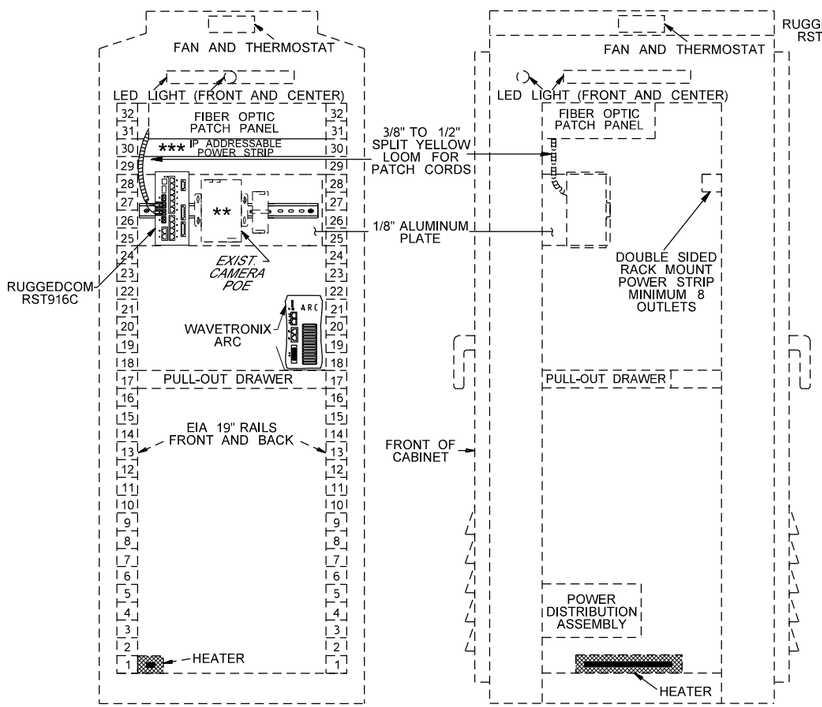
ITS DETAILS

Plot 19
PLAN REF NO ITD19
SHEET 78 OF 164 SHEETS

NOTES:

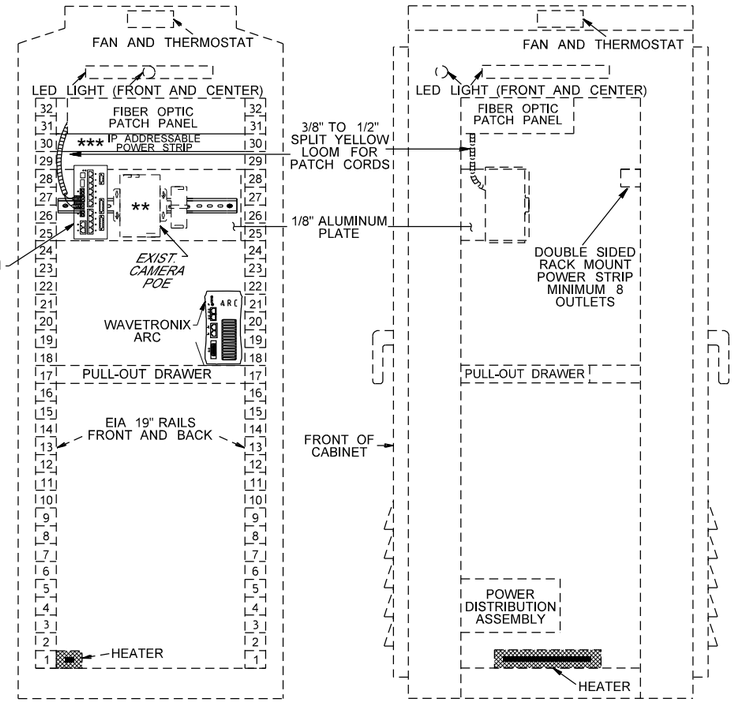
1. ALL CABLES SHALL BE MOUNTED OR PLACED OUT OF THE WAY AS TO NOT OBSTRUCT THE CABINET PULL-OUT DRAWER.
2. ALL LIGHTS SHALL COME ON WHEN ANY DOOR IS OPENED.
3. INSTALL POWER STRIP WITH A MINIMUM OF 12 OUTLETS ON INSIDE OF REAR VERTICAL SUPPORT. CONNECT POWER CORD TO "R2" OUTLET ON PDA.
4. INSTALL HEATER ON COMMUNICATION SIDE OF THE CABINET.

EXIST. 331L ITS CABINET
205es03111



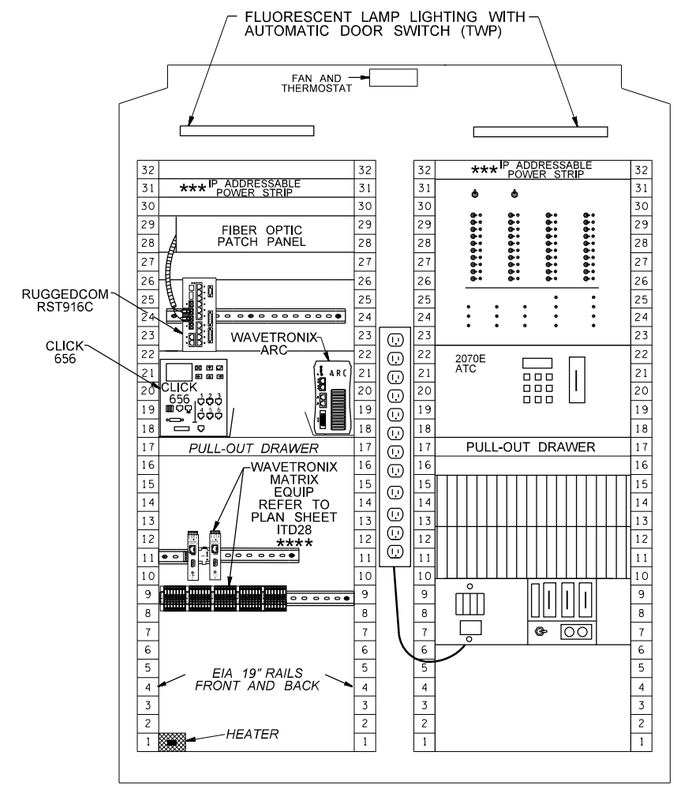
FRONT VIEW **SIDE VIEW**

EXIST. 331L ITS CABINET
205es02987



FRONT VIEW **SIDE VIEW**

334D RAMP METER CABINET
205rm02903/ 205es02904



FRONT

** REFER TO DETAIL SHEET ITD11 FOR WAVETRONIX ITS CABINET EQUIP. AND CAMERA COMMUNICATION PANEL

*** IP ADDRESSABLE POWER STRIP SHALL HAVE A MIN 10 FT INPUT POWER CABLE WITH NEMA 5-15P PLUG, MIN QTY. OF 8 NEMA 5-15/20 RECEPTACLES, CIRCUIT PROTECTION TYPE SHALL BE CIRCUIT BREAKER, INCLUDED SURGE SUPPRESSION, LCD DISPLAY, AND 15A MIN CURRENT CAPACITY. 5-15/20 RECEPTACLE SHALL MOUNTED IN THE REAR OF THE CABINET FACING THE REAR DOOR.

**** TO BE INSTALLED ON THE REAR SIDE OF THE CABINET.

CABINET AND EQUIPMENT DETAIL

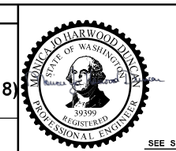
NOT TO SCALE

- - - - - *EXISTING*
——— **NEW**

NOTES:

1. CONTRACTOR SHALL PROVIDE ONE (1) 12" RS485 JUMBER CABLE PER CLICK CARD.
2. CONTRACTOR SHALL PROVIDE SIX (6) 3' CABLE FOR EVERY CLICK 656.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn						
TIME	9:20:12 AM				REGION NO.	STATE	FED.AID PROJ.NO.
DATE	11/1/2022				10	WASH	STP-2051(287)
PLOTTED BY	fuestm				JOB NUMBER		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST				22X332		
ENTERED BY	M. FUEST				CONTRACT NO.		LOCATION NO.
CHECKED BY	S. MERCER						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			



SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

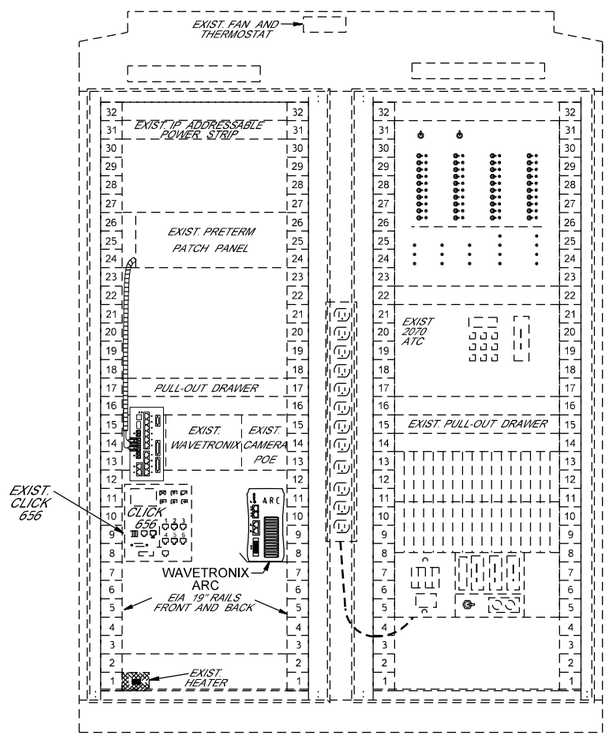
ITS DETAILS

Plot 20
PLAN REF NO
ITD20
SHEET 79 OF 164 SHEETS

NOTES:

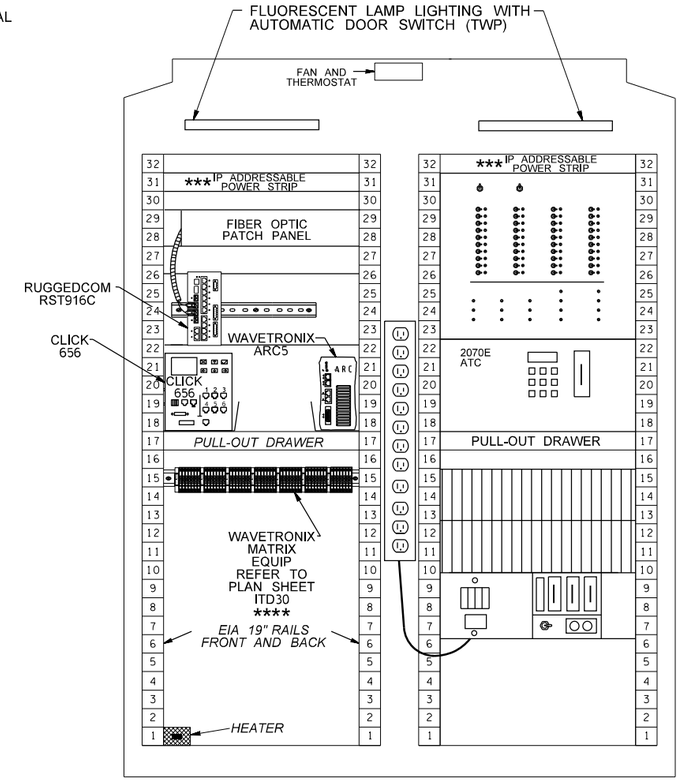
1. ALL CABLES SHALL BE MOUNTED OR PLACED OUT OF THE WAY AS TO NOT OBSTRUCT THE CABINET PULL-OUT DRAWER.
2. ALL LIGHTS SHALL COME ON WHEN ANY DOOR IS OPENED.
3. INSTALL POWER STRIP WITH A MINIMUM OF 12 OUTLETS ON INSIDE OF REAR VERTICAL SUPPORT. CONNECT POWER CORD TO "R2" OUTLET ON PDA.
4. INSTALL HEATER ON COMMUNICATION SIDE OF THE CABINET.

EXIST. 334D RAMP METER CABINET
205es02869/ 205rm02870



FRONT

334D RAMP METER CABINET
205rm02812/ 205es02813



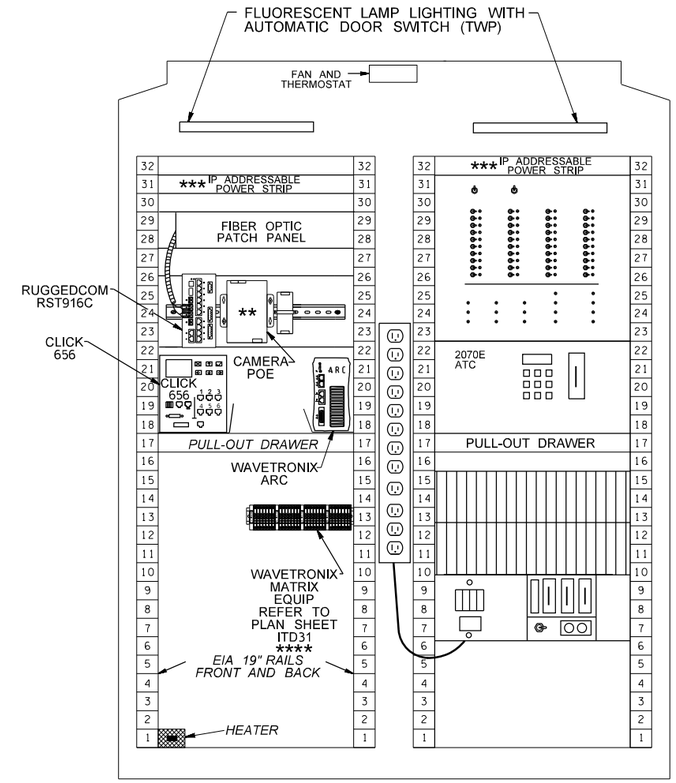
FRONT

** REFER TO DETAIL SHEET ITD11 FOR WAVETRONIX ITS CABINET EQUIP. AND CAMERA COMMUNICATION PANEL

*** IP ADDRESSABLE POWER STRIP SHALL HAVE A MIN 10 FT INPUT POWER CABLE WITH NEMA 5-15P PLUG, MIN QTY. OF 8 NEMA 5-15/20 RECEPTACLES, CIRCUIT PROTECTION TYPE SHALL BE CIRCUIT BREAKER, INCLUDED SURGE SUPPRESSION, LCD DISPLAY, AND 15A MIN CURRENT CAPACITY. 5-15/20 RECEPTACLE SHALL MOUNTED IN THE REAR OF THE CABINET FACING THE REAR DOOR.

**** TO BE INSTALLED ON THE REAR SIDE OF THE CABINET.

334D RAMP METER CABINET
005rm00169/ 005es00170



FRONT

CABINET AND EQUIPMENT DETAIL

NOT TO SCALE

- - - - - EXISTING
——— NEW

NOTES:

1. CONTRACTOR SHALL PROVIDE ONE (1) 12" RS485 JUMBER CABLE PER CLICK CARD.
2. CONTRACTOR SHALL PROVIDE SIX (6) 3' CABLE FOR EVERY CLICK 656.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn				REGION NO.	STATE	FED.AID PROJ.NO.			Washington State Department of Transportation	I-5/NB FOURTH PLAIN ON-RAMP I-205/SB 134TH ST TO MILL PLAIN RAMP METERS	Plot 21
TIME	9:20:17 AM				10	WASH	STP-2051(287)					PLAN REF NO ITD21
DATE	11/1/2022				JOB NUMBER		CRRSAA(UL)-0051(318)					
PLOTTED BY	fuestm				22X332							SHEET 80 OF 164 SHEETS
DESIGNED BY	M. FUEST				CONTRACT NO.		LOCATION NO.				ITS DETAILS	
ENTERED BY	K. WACHTER											
CHECKED BY	S. MERCER											
PROJ. ENGR.	M. HARWOOD											
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY								

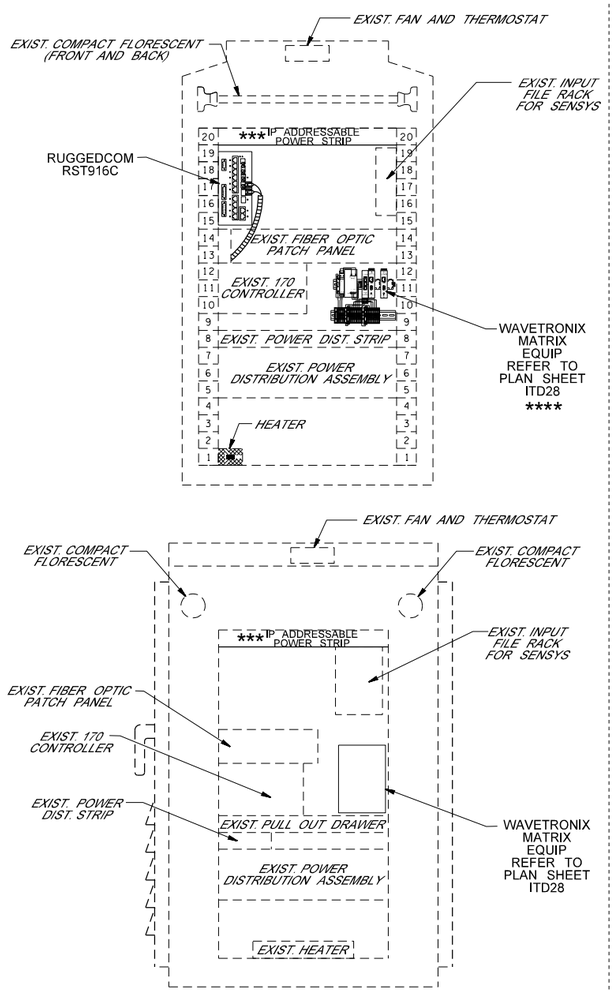
MONICA JO HARWOOD DUNCAN, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

EXIST. 336 ITS CABINET

205ES02885



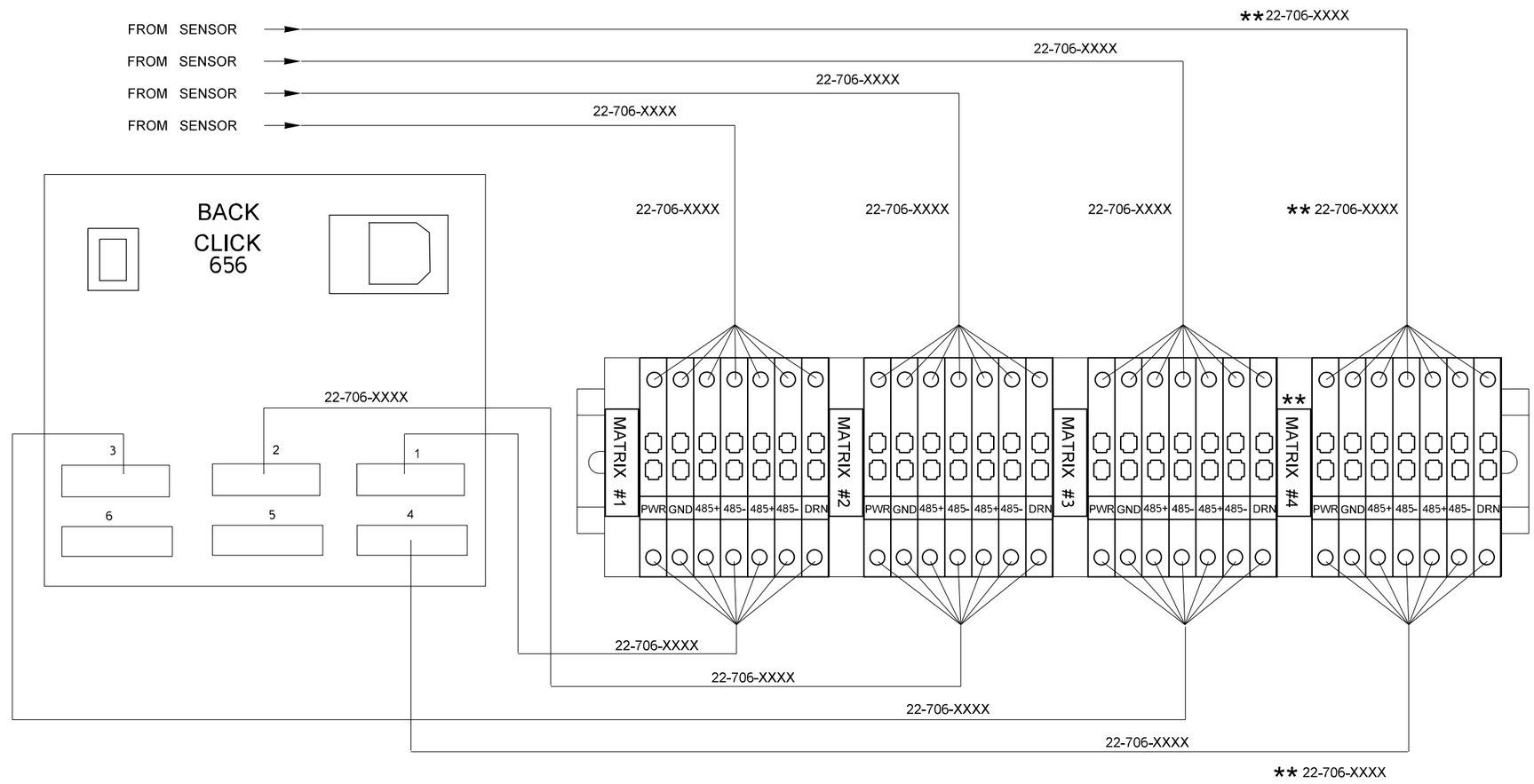
CABINET AND EQUIPMENT DETAILS

NOTES:

1. ALL CABLES SHALL BE MOUNTED OR PLACED OUT OF THE WAY AS TO NOT OBSTRUCT THE CABINET PULL-OUT DRAWER.

*** IP ADDRESSABLE POWER STRIP SHALL HAVE A MIN 10 FT INPUT POWER CABLE WITH NEMA 5-15P PLUG, MIN QTY. OF 8 NEMA 5-15/20 RECEPTACLES, CIRCUIT PROTECTION TYPE SHALL BE CIRCUIT BREAKER, INCLUDED SURGE SUPPRESSION, LCD DISPLAY, AND 15A MIN CURRENT CAPACITY. 5-15/20 RECEPTACLE SHALL BE FACING THE FRONT OF THE CABINET.

**** TO BE INSTALLED ON THE REAR SIDE OF THE CABINET.



205rm03666/ 205es03667

134th CABINET DETAIL

NOT TO SCALE

** ONLY REQUIRED IF A2 IS AWARDED

NOTES:

1. CABLES FROM DIN RAIL MOUNTED TERMINAL STRIP TO CLICK 656 AND CLICK 301 SHALL BE WAVETRONIX 22-706-XXXX.
2. DIAGRAM IS SCHEMATIC AND IS FOR ILLUSTRATION PURPOSES. CONTRACTOR SHALL VERIFY DIAGRAM WITH MANUFACTURE. ADDITIONAL EQUIPMENT AND/ OR WIRES MAY BE REQUIRED. ADDITIONAL EQUIPMENT AND WIRES SHALL BE INCIDENTAL TO THE BID ITEM AND BE CAPTURED IN BID.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn			
TIME	9:20:20 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	K. WACHTER			
CHECKED BY	S. MERCER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

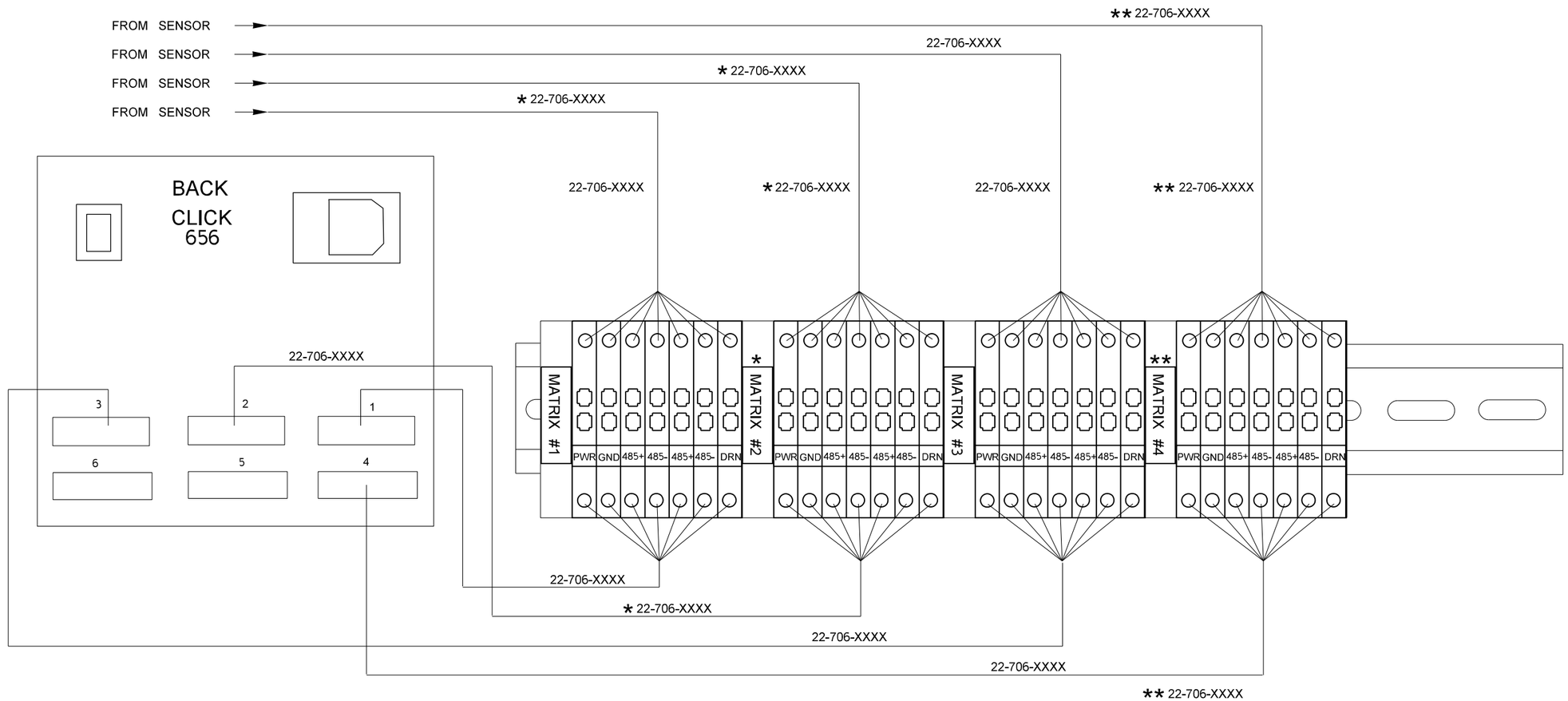
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 22
PLAN REF NO
ITD22
SHEET 81 OF 164 SHEETS



* REQUIRED UNDER A1 AND A2 IF AWARDED

** ONLY REQUIRED IF A2 IS AWARDED

205rm03311/ 205es03321

WESTBOUND PADDEN PARKWAY

NOT TO SCALE

NOTES:

1. CABLES FROM DIN RAIL MOUNTED TERMINAL STRIP TO CLICK 656 AND CLICK 301 SHALL BE WAVETRONIX 22-706-XXXX.
2. DIAGRAM IS SCHEMATIC AND IS FOR ILLUSTRATION PURPOSES. CONTRACTOR SHALL VERIFY DIAGRAM WITH MANUFACTURE. ADDITIONAL EQUIPMENT AND/ OR WIRES MAY BE REQUIRED. ADDITIONAL EQUIPMENT AND WIRES SHALL BE INCIDENTAL TO THE BID ITEM AND BE CAPTURED IN BID.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn			
TIME	9:20:24 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	K. WACHTER			
CHECKED BY	S. MERCER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

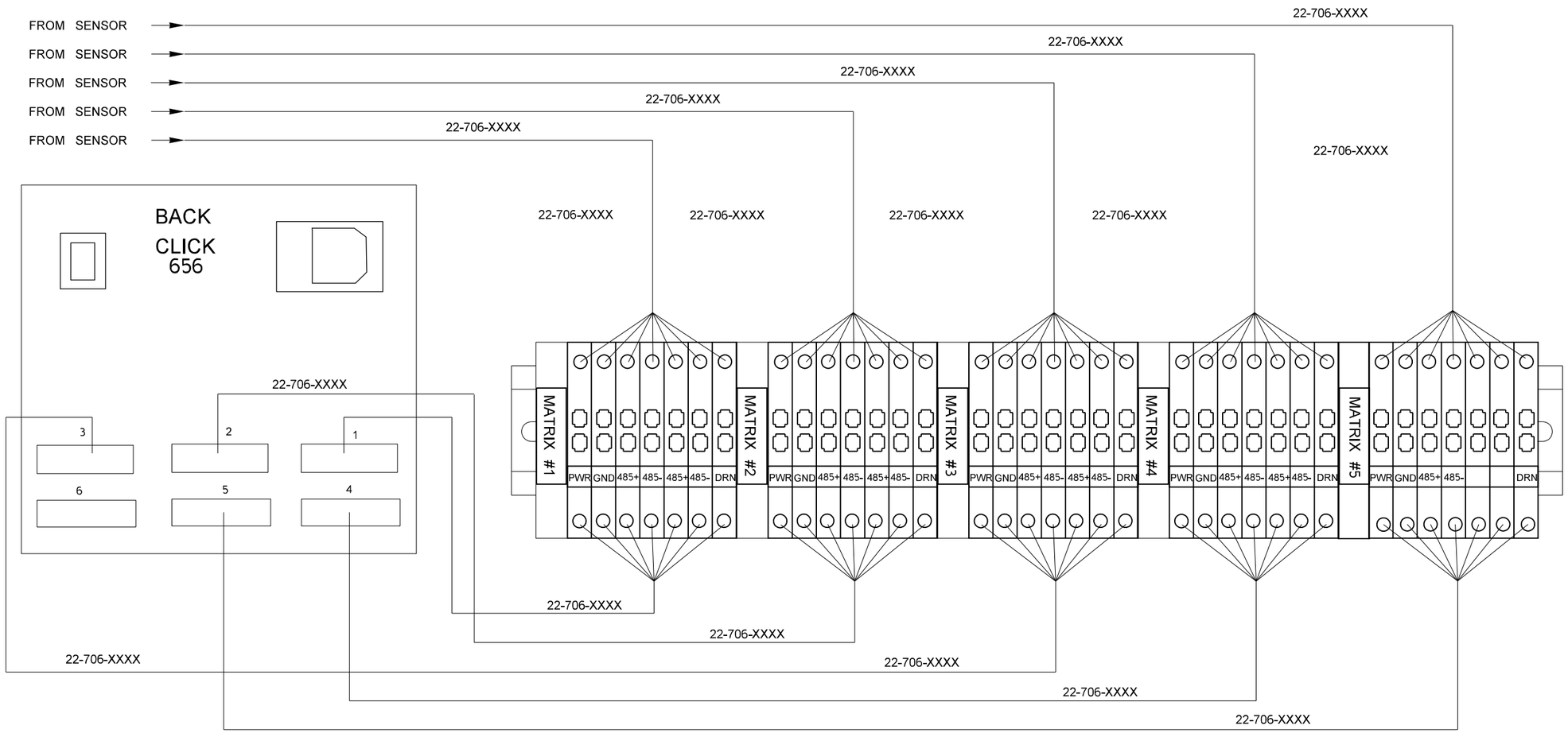
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 23

PLAN REF NO **ITD23**

SHEET **82** OF **164** SHEETS



205rm03288/ 205es03290

EASTBOUND PADDEN PARKWAY

NOT TO SCALE

NOTES:

1. CABLES FROM DIN RAIL MOUNTED TERMINAL STRIP TO CLICK 656 AND CLICK 301 SHALL BE WAVETRONIX 22-706-XXXX.
2. DIAGRAM IS SCHEMATIC AND IS FOR ILLUSTRATION PURPOSES. CONTRACTOR SHALL VERIFY DIAGRAM WITH MANUFACTURE. ADDITIONAL EQUIPMENT AND/ OR WIRES MAY BE REQUIRED. ADDITIONAL EQUIPMENT AND WIRES SHALL BE INCIDENTAL TO THE BID ITEM AND BE CAPTURED IN BID.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn						
TIME	9:20:26 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
DATE	11/1/2022						
PLOTTED BY	fuestm				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST				CONTRACT NO.		LOCATION NO.
ENTERED BY	K. WACHTER						
CHECKED BY	S. MERCER						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA JO HARWOOD DIAZ, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

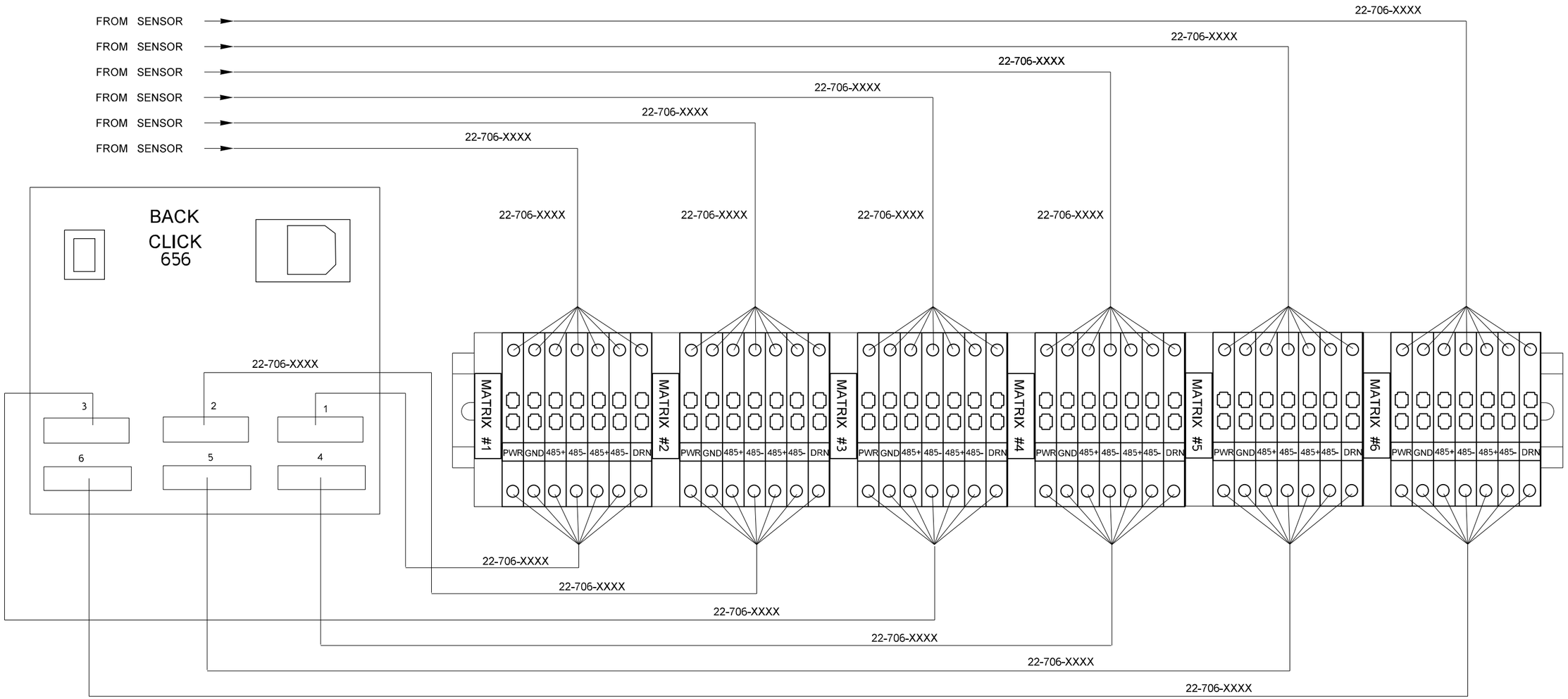
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 24

PLAN REF NO ITD24

SHEET 83 OF 164 SHEETS



205rm03068/205es03069

WESTBOUND SR500

NOT TO SCALE

NOTES:

1. CABLES FROM DIN RAIL MOUNTED TERMINAL STRIP TO CLICK 656 AND CLICK 301 SHALL BE WAVETRONIX 22-706-XXXX.
2. DIAGRAM IS SCHEMATIC AND IS FOR ILLUSTRATION PURPOSES. CONTRACTOR SHALL VERIFY DIAGRAM WITH MANUFACTURE. ADDITIONAL EQUIPMENT AND/ OR WIRES MAY BE REQUIRED. ADDITIONAL EQUIPMENT AND WIRES SHALL BE INCIDENTAL TO THE BID ITEM AND BE CAPTURED IN BID.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn
TIME	9:20:31 AM
DATE	11/1/2022
PLOTTED BY	fuestm
DESIGNED BY	M. FUEST
ENTERED BY	K. WACHTER
CHECKED BY	S. MERCER
PROJ. ENGR.	M. HARWOOD
REGIONAL ADM.	C. FRANCIS

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

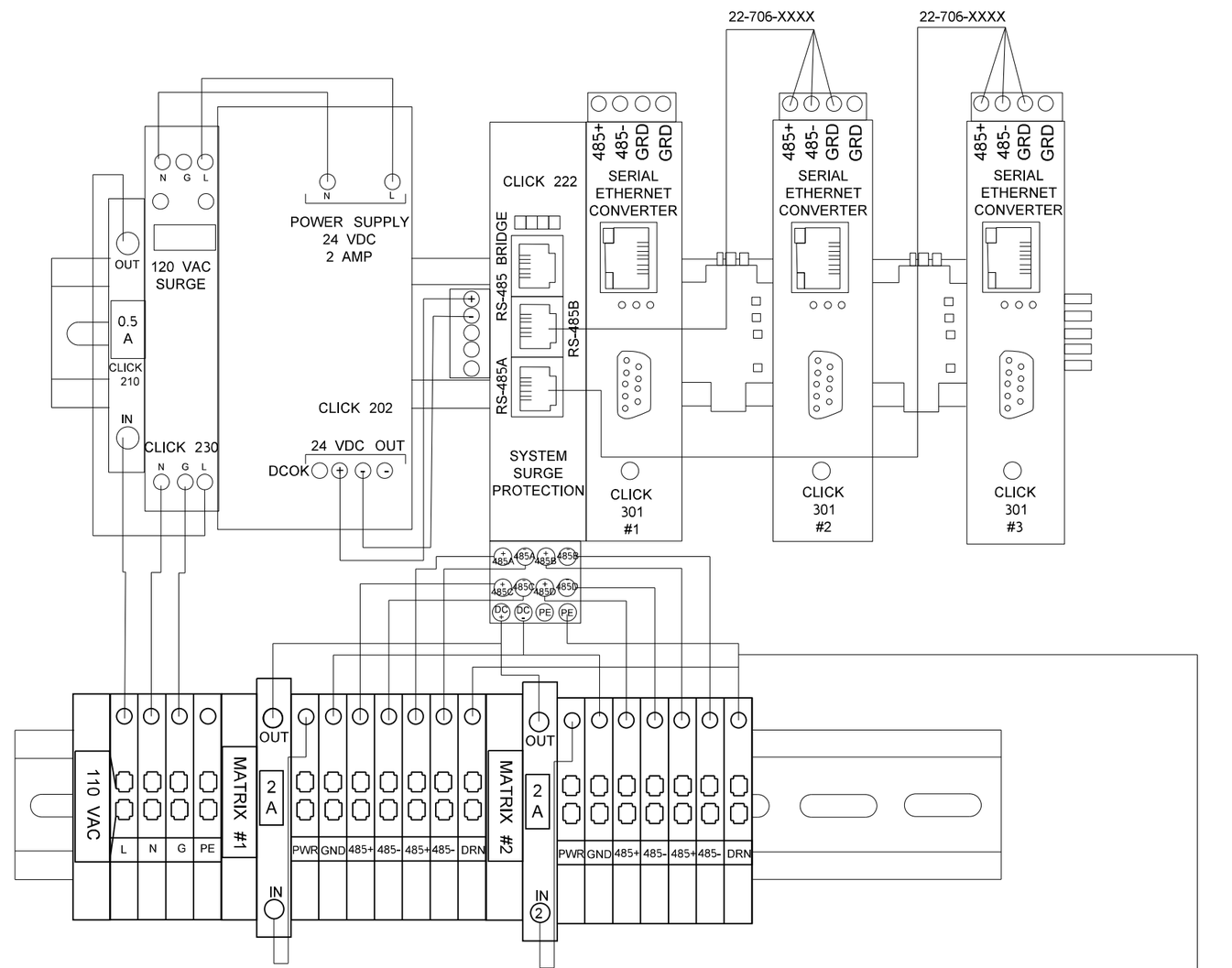
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 25
PLAN REF NO
ITD25
SHEET 84 OF 164 SHEETS



WAVETRONIX ITS CABINET EQUIPMENT DETAILS

500vm00442

EASTBOUND SR500

NOT TO SCALE

NOTES:

1. CABLES FROM DIN RAIL MOUNTED TERMINAL STRIP TO CLICK 222 SHALL BE WAVETRONIX 22-706-XXXX.
2. DIAGRAM IS SCHEMATIC AND IS FOR ILLUSTRATION PURPOSES. CONTRACTOR SHALL VERIFY DIAGRAM WITH MANUFACTURE. ADDITIONAL EQUIPMENT AND/ OR WIRES MAY BE REQUIRED. ADDITIONAL EQUIPMENT AND WIRES SHALL BE INCIDENTAL TO THE BID ITEM AND BE CAPTURED IN BID.
3. CLICK 222 AND CLICK 301 #1 SHALL BE POWERED BY GREEN T-BUS CONNECTOR. CLICK 301 #2 AND #3 POWERED BY GRAY T-BUS CONNECTOR.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn			
TIME	9:20:33 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	K. WACHTER			
CHECKED BY	S. MERCER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN STATE OF WASHINGTON 39399 REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

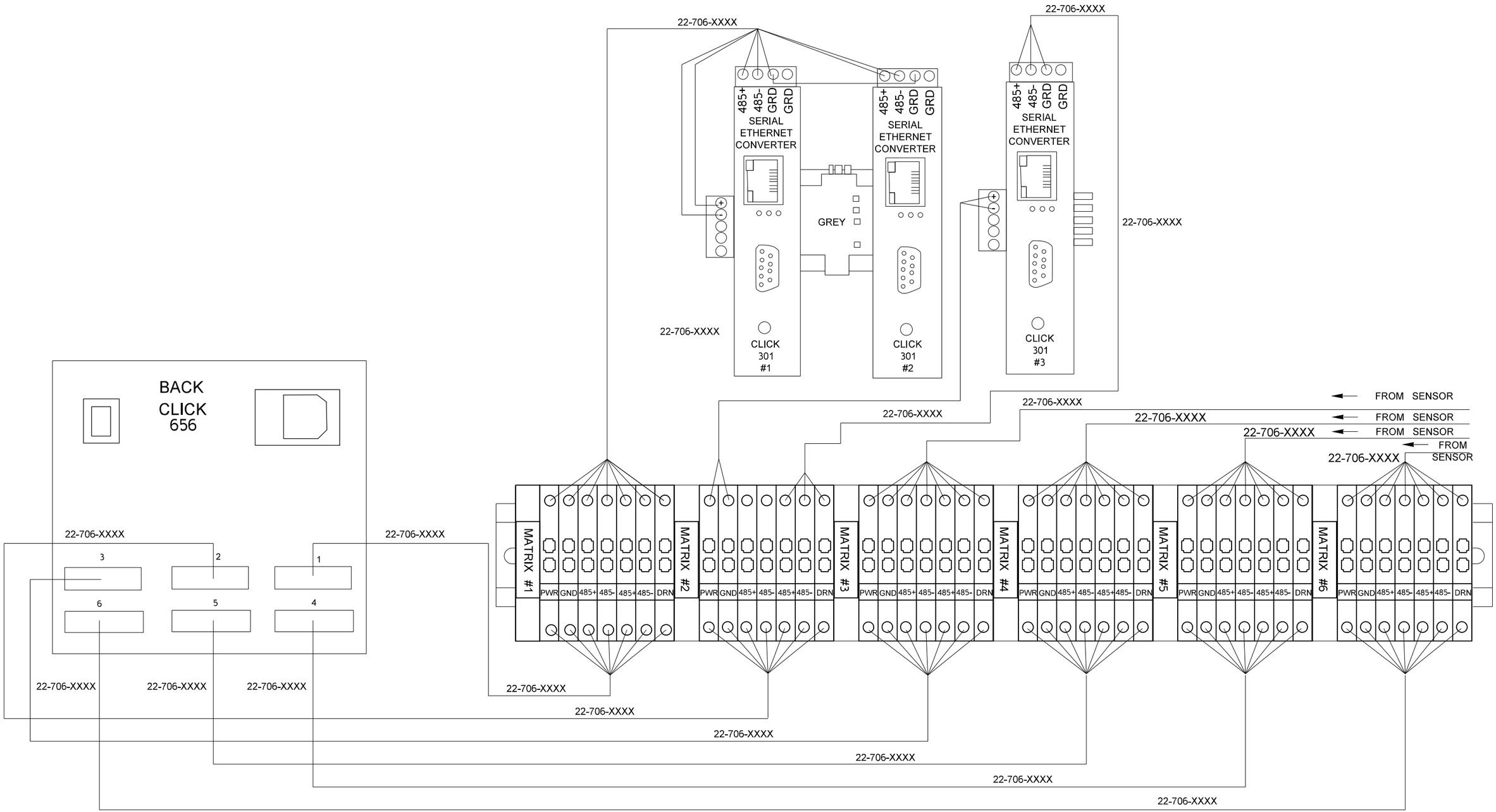
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 26
PLAN REF NO
ITD26
SHEET 85 OF 164 SHEETS



NOTES:

1. CABLES FROM DIN RAIL MOUNTED TERMINAL STRIP TO CLICK 656 AND CLICK 301 SHALL BE WAVETRONIX 22-706-XXXX.
2. DIAGRAM IS SCHEMATIC AND IS FOR ILLISTRATION PURPOSES. CONTRACTOR SHALL VERIFY DIAGRAM WITH MANUFACTURE. ADDITIONAL EQUIPMENT AND/ OR WIRES MAY BE REQUIRED. ADDITIONAL EQUIPMENT AND WIRES SHALL BE INCIDENTAL TO THE BID ITEM AND BE CAPTURED DURING BID.
3. CLICK 301 #2 SHALL BE POWERED BY GRAY T-BUS CONNECTOR FROM CLICK 301 #1.

205rm03070

EASTBOUND SR500

NOT TO SCALE

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn				REGION NO.	STATE	FED.AID PROJ.NO.	
TIME	9:20:38 AM				10	WASH	STP-2051(287)	
DATE	11/1/2022							
PLOTTED BY	fuestm				JOB NUMBER		CRRSAA(UL)-0051(318)	
DESIGNED BY	M. FUEST				22X332			
ENTERED BY	K. WACHTER				CONTRACT NO.		LOCATION NO.	
CHECKED BY	S. MERCER							
PROJ. ENGR.	M. HARWOOD							
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY				

MONICA JO HARWOOD DUNCAN · STATE OF WASHINGTON · 39399 · REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

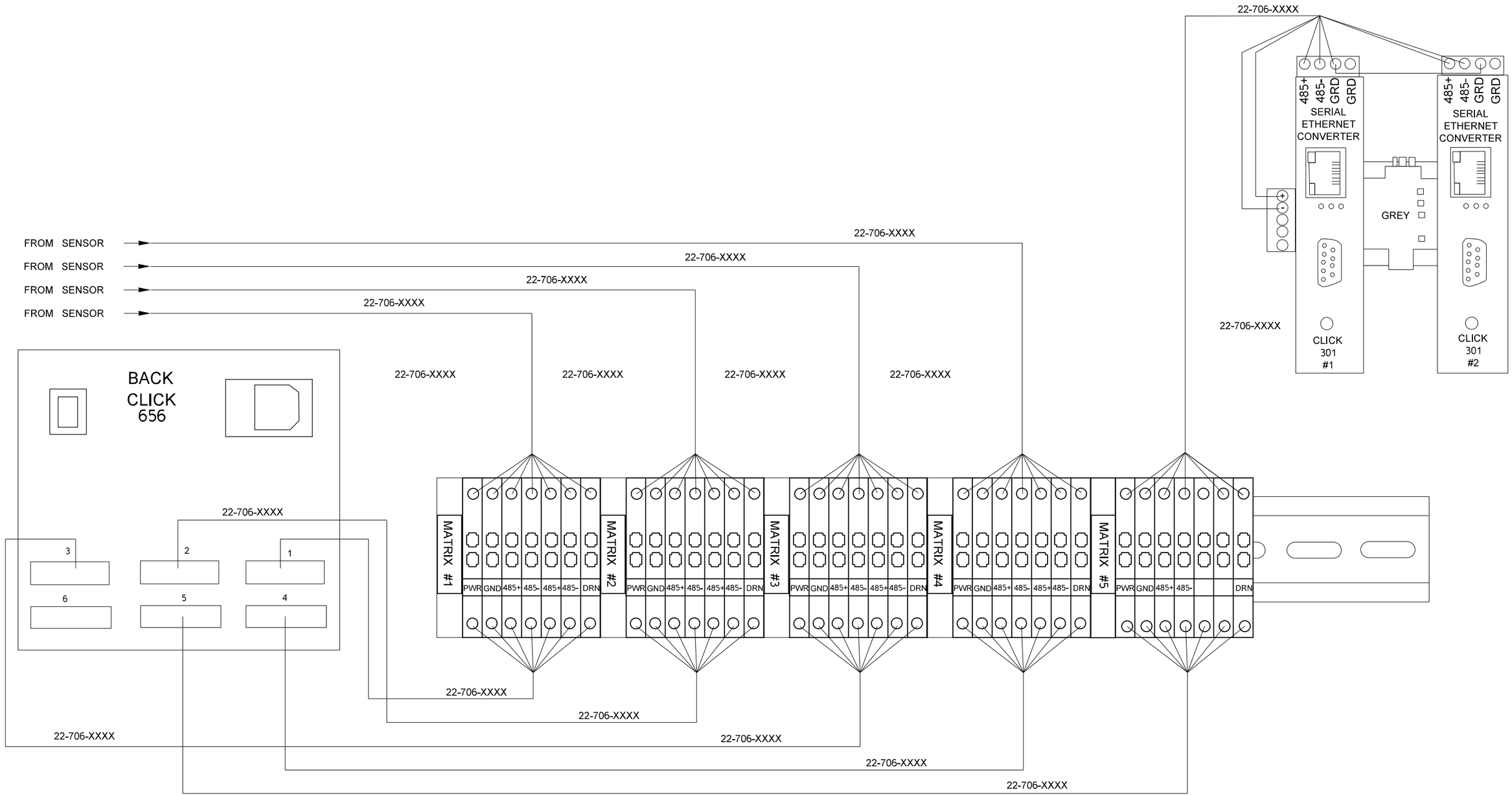
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 27

PLAN REF NO
ITD27

SHEET
86
OF
164
SHEETS



205rm02903/205es02904

18TH ST

NOT TO SCALE

NOTES:

1. CABLES FROM DIN RAIL MOUNTED TERMINAL STRIP TO CLICK 656 AND CLICK 301 SHALL BE WAVETRONIX 22-706-XXXX.
2. DIAGRAM IS SCHEMATIC AND IS FOR ILLUSTRATION PURPOSES. CONTRACTOR SHALL VERIFY DIAGRAM WITH MANUFACTURE. ADDITIONAL EQUIPMENT AND/ OR WIRES MAY BE REQUIRED. ADDITIONAL EQUIPMENT AND WIRES SHALL BE INCIDENTAL TO THE BID ITEM AND BE CAPTURED IN BID.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn						
TIME	9:20:40 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
DATE	11/1/2022						
PLOTTED BY	fuestm				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST				CONTRACT NO.		LOCATION NO.
ENTERED BY	K. WACHTER						
CHECKED BY	S. MERCER						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA JO HARWOOD DIAZ — STATE OF WASHINGTON — 39399 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State
Department of Transportation

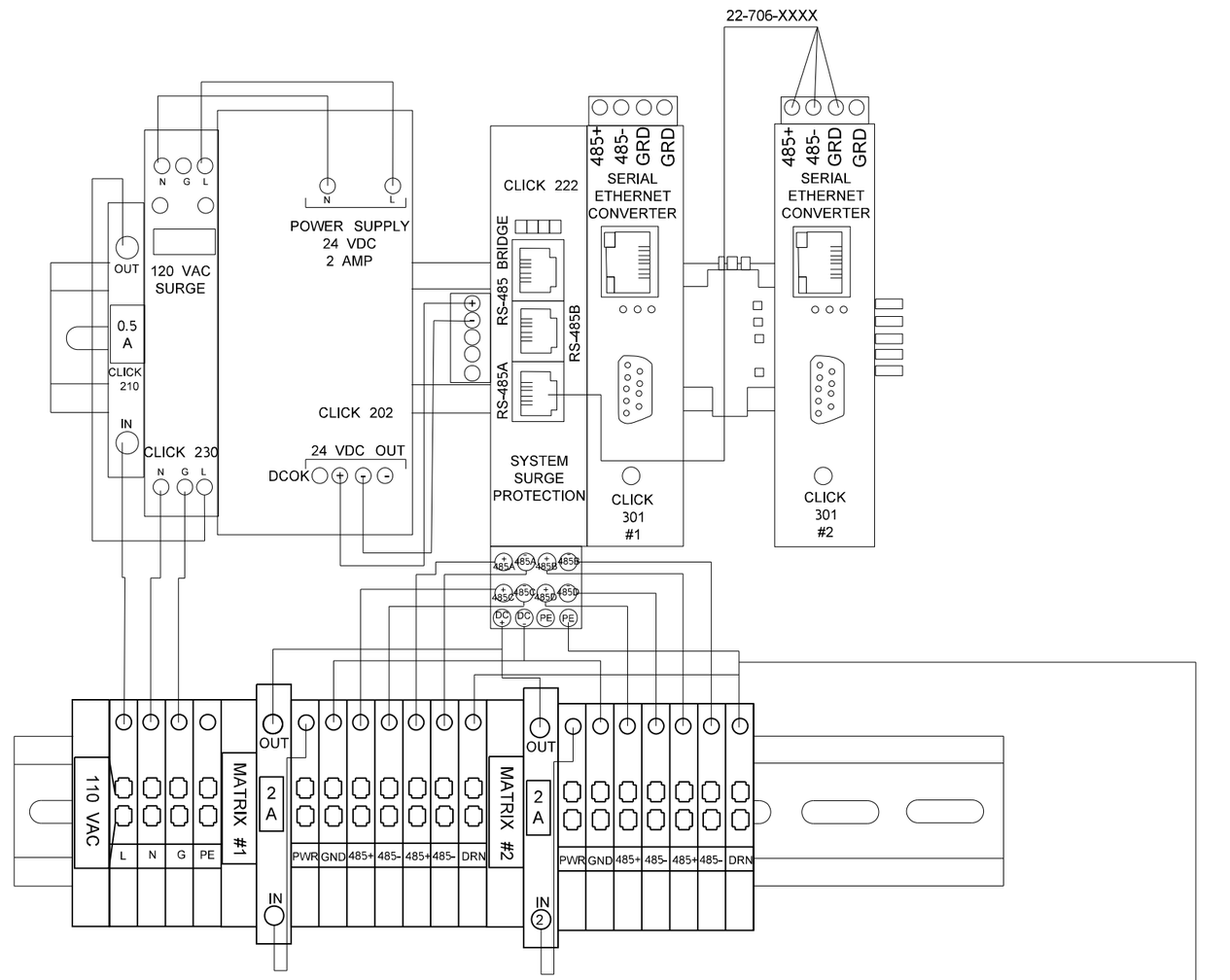
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 28

PLAN REF NO
ITD28

SHEET 87 OF 164 SHEETS



NOTES:

1. CABLES FROM DIN RAIL MOUNTED TERMINAL STRIP TO CLICK 222 SHALL BE WAVETRONIX 22-706-XXXX.
2. DIAGRAM IS SCHEMATIC AND IS FOR ILLUSTRATION PURPOSES. CONTRACTOR SHALL VERIFY DIAGRAM WITH MANUFACTURE. ADDITIONAL EQUIPMENT AND/ OR WIRES MAY BE REQUIRED. ADDITIONAL EQUIPMENT AND WIRES SHALL BE INCIDENTAL TO THE BID ITEM AND BE CAPTURED IN BID.
3. CLICK 222 AND CLICK 301 #1 SHALL BE POWERED BY GREEN T-BUS CONNECTOR. CLICK 301 #2 POWERED BY GRAY T-BUS CONNECTOR.

205es02885

I-205 MP 28.85

NOT TO SCALE

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn			
TIME	9:20:44 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	K. WACHTER			
CHECKED BY	S. MERCER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

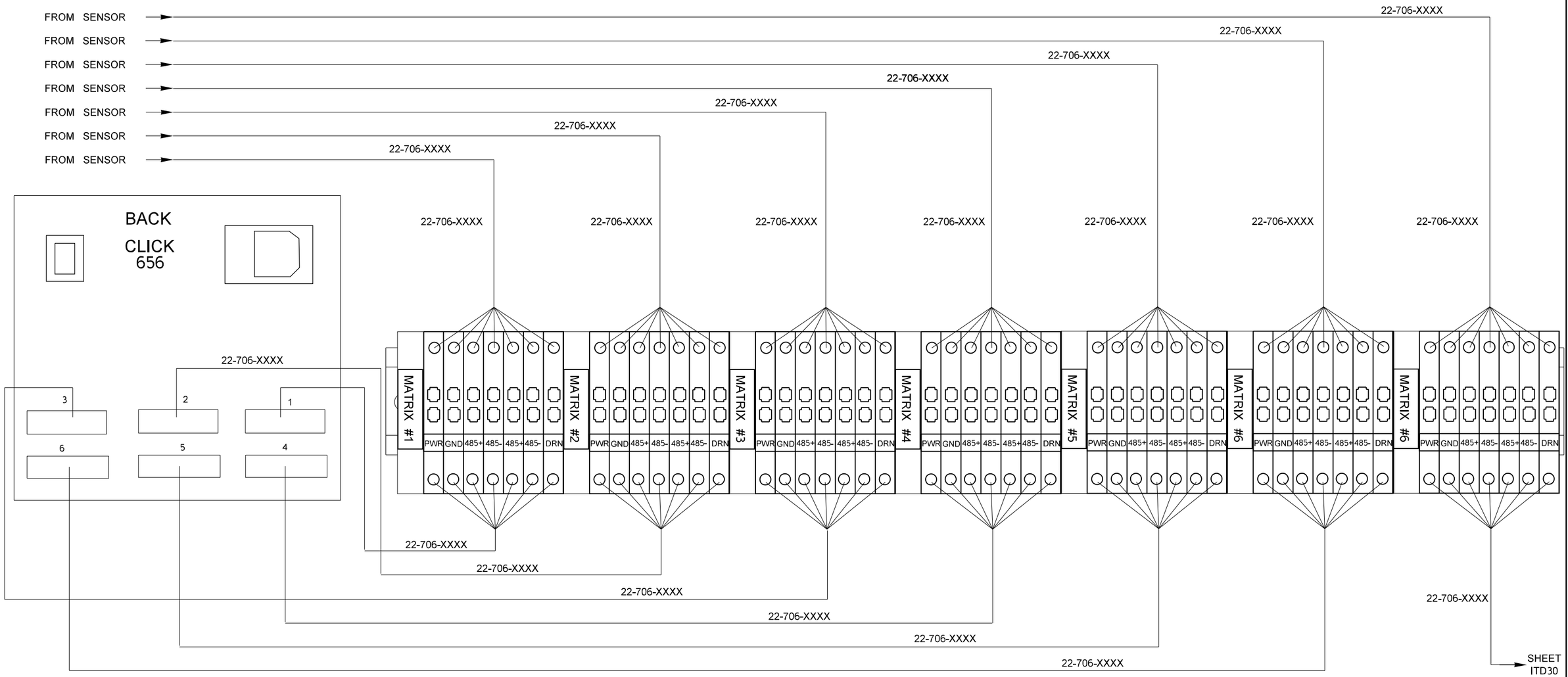
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 29
PLAN REF NO
ITD29
SHEET
88
OF
164
SHEETS



205rm02812/205es02813

MILL PLAIN BLVD

NOT TO SCALE

NOTES:

1. CABLES FROM DIN RAIL MOUNTED TERMINAL STRIP TO CLICK 656 AND CLICK 301 SHALL BE WAVETRONIX 22-706-XXXX.
2. DIAGRAM IS SCHEMATIC AND IS FOR ILLUSTRATION PURPOSES. CONTRACTOR SHALL VERIFY DIAGRAM WITH MANUFACTURE. ADDITIONAL EQUIPMENT AND/ OR WIRES MAY BE REQUIRED. ADDITIONAL EQUIPMENT AND WIRES SHALL BE INCIDENTAL TO THE BID ITEM AND BE CAPTURED IN BID.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)	Plot 30
TIME	9:20:49 AM				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)	PLAN REF NO ITD30
DATE	11/1/2022				CONTRACT NO.		LOCATION NO.	SHEET 89 OF 164 SHEETS
PLOTTED BY	fuestm							
DESIGNED BY	M. FUEST							
ENTERED BY	K. WACHTER							
CHECKED BY	S. MERCER							
PROJ. ENGR.	M. HARWOOD							
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY				

MONICA JO HARWOOD DUNCAN · STATE OF WASHINGTON · 39399 · REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

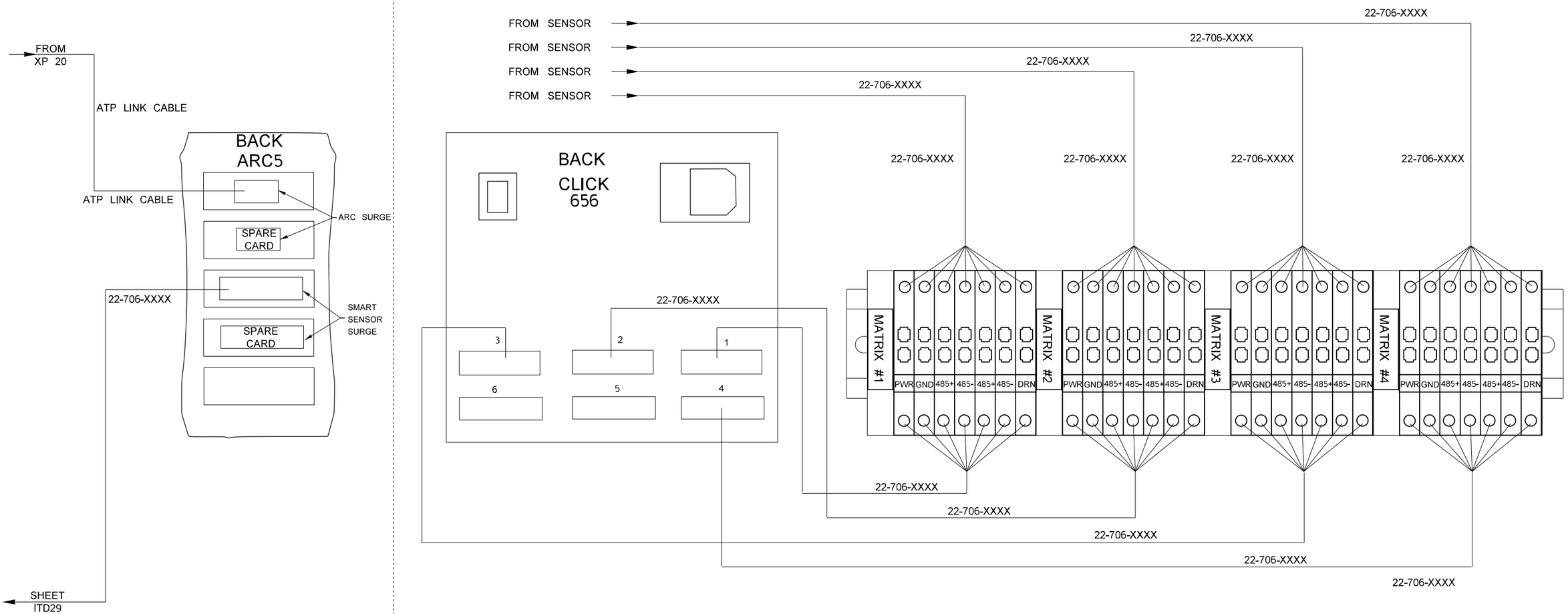
DATE

P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS



MP 28.12

MILL PLAIN BLVD

NOT TO SCALE

005rm00169/005es00170

4TH PLAIN

NOT TO SCALE

NOTES:

1. CABLES FROM DIN RAIL MOUNTED TERMINAL STRIP TO CLICK 656 AND CLICK 301 SHALL BE WAVETRONIX 22-706-XXXX.
2. DIAGRAM IS SCHEMATIC AND IS FOR ILLUSTRATION PURPOSES. CONTRACTOR SHALL VERIFY DIAGRAM WITH MANUFACTURE. ADDITIONAL EQUIPMENT AND/ OR WIRES MAY BE REQUIRED. ADDITIONAL EQUIPMENT AND WIRES SHALL BE INCIDENTAL TO THE BID ITEM AND BE CAPTURED IN BID.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn			
TIME	9:20:53 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	K. WACHTER			
CHECKED BY	S. MERCER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

SEE SHEET CT1
DATE
P.E. STAMP BOX

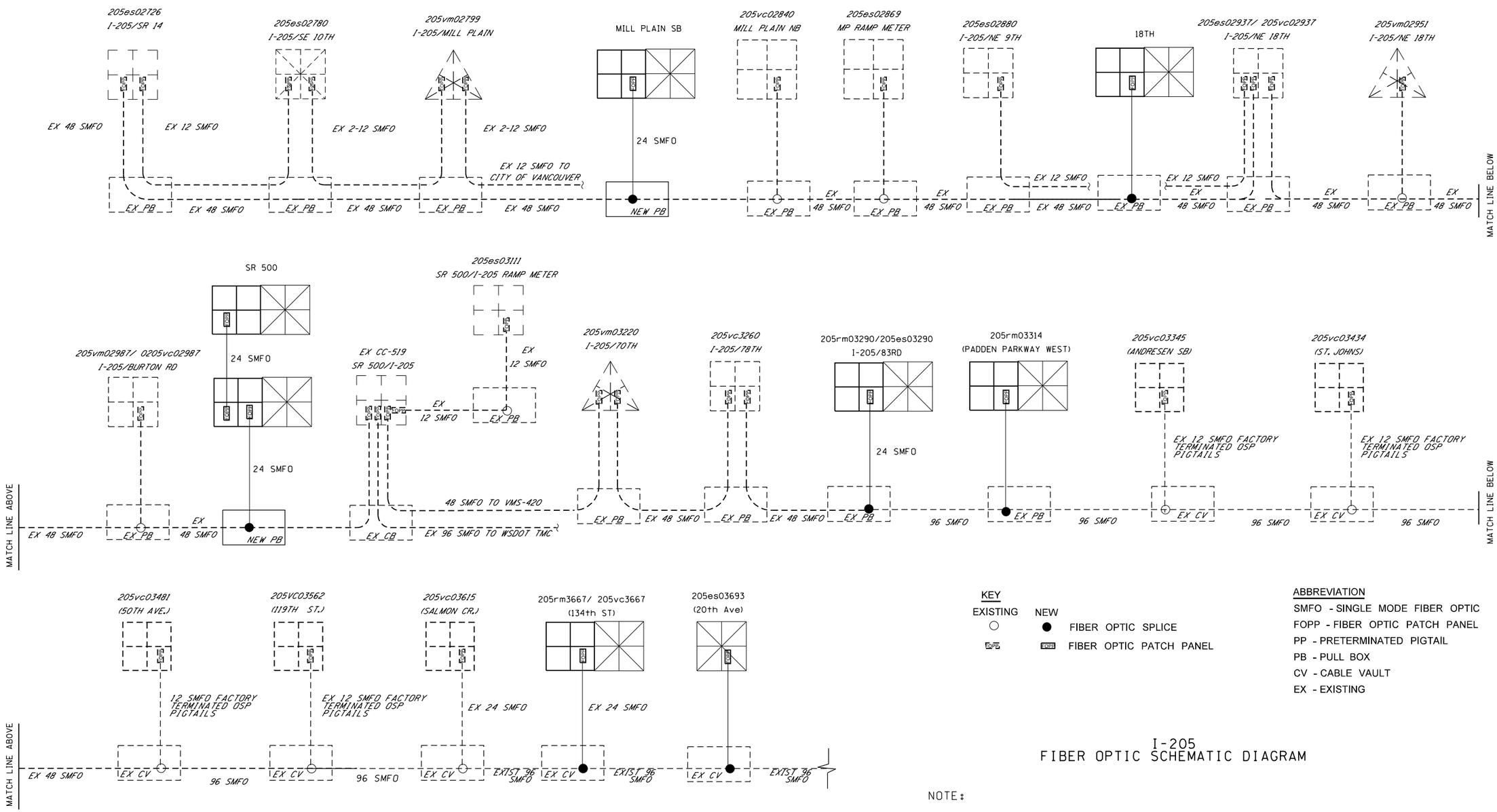
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 31
PLAN REF NO
ITD31
SHEET 90 OF 164 SHEETS



KEY

EXISTING	NEW	
○	●	FIBER OPTIC SPLICE
		FIBER OPTIC PATCH PANEL

ABBREVIATION

SMFO - SINGLE MODE FIBER OPTIC
FOPP - FIBER OPTIC PATCH PANEL
PP - PRETERMINATED PIGTAIL
PB - PULL BOX
CV - CABLE VAULT
EX - EXISTING

I-205
FIBER OPTIC SCHEMATIC DIAGRAM

NOTE:

NOT ALL CABLE VAULTS AND/OR PULL BOXES ARE SHOWN .EXISTING 12 STRAND SHALL NOT BE CUT UNTIL NEW 48 STRAND SMFO CABLE IS INSTALLED AND TERMINATED.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn			
TIME	9:20:56 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	K. WACHTER			
CHECKED BY	S. MERCER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DILLAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

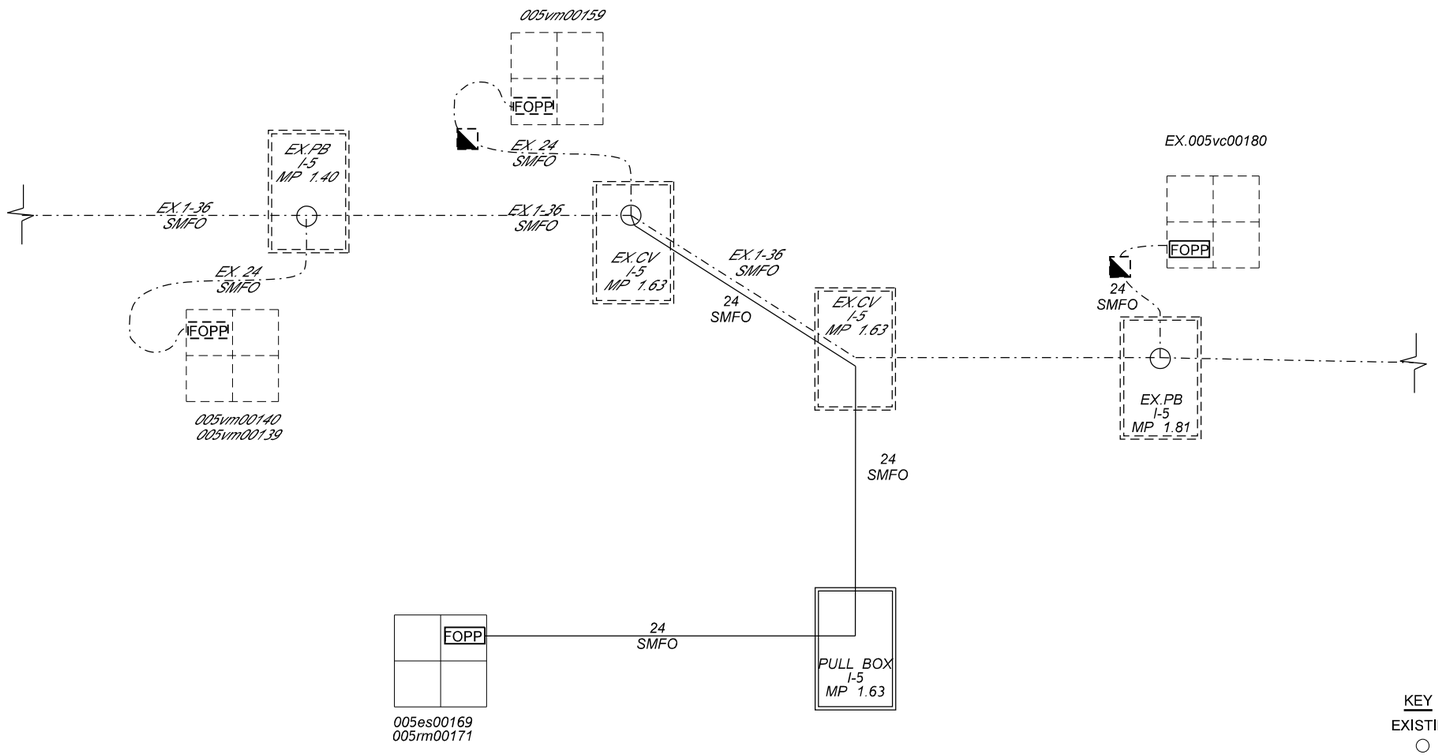
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 32
PLAN REF NO
ITD32
SHEET 91 OF 164 SHEETS



KEY

EXISTING	NEW	
○	●	FIBER OPTIC SPLICE
FOPP	FOPP	FIBER OPTIC PATCH PANEL

ABBREVIATION

SMFO - SINGLE MODE FIBER OPTIC
FOPP - FIBER OPTIC PATCH PANEL
PP - PRETERMINATED PIGTAIL
PB - PULL BOX
CV - CABLE VAULT
EX - EXISTING

I-5
FIBER OPTIC SCHEMATIC DIAGRAM

NOTE:

NOT ALL CABLE VAULTS AND/OR PULL BOXES ARE SHOWN .EXISTING 12 STRAND SHALL NOT BE CUT UNTIL NEW 48 STRAND SMFO CABLE IS INSTALLED AND TERMINATED.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn					
TIME	9:20:58 AM					
DATE	11/1/2022					
PLOTTED BY	fuestm					
DESIGNED BY	M. FUEST					
ENTERED BY	K. WACHTER					
CHECKED BY	S. MERCER					
PROJ. ENGR.	M. HARWOOD					
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY		

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED
PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

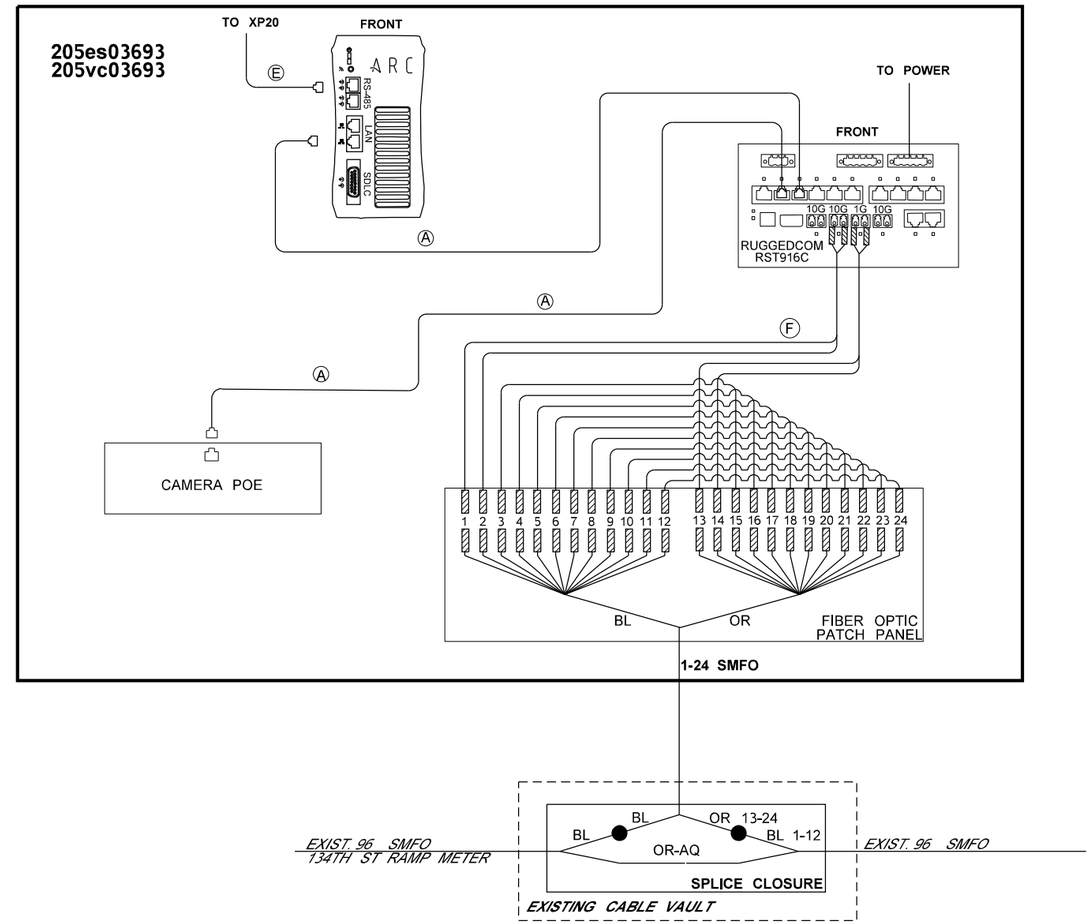
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

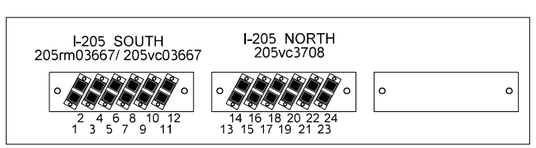
ITS DETAILS

Plot 33
PLAN REF NO
ITD33
SHEET 92 OF 164 SHEETS

LEGEND

Ⓐ	CAT-5E CABLE		RJ-45 ETHERNET CONNECTOR
Ⓑ	SC/SC SMFO DUPLEX UPC PATCH CABLE		SC FIBER OPTIC PIGTAIL
Ⓒ	SC/SC 6MMFO FIBER CABLE (OUTDOOR RATED)		LC FIBER OPTIC PIGTAIL
Ⓓ	4CS TWISTED PAIR COMM. CABLE	●	FIBER OPTIC SPLICE
Ⓔ	WAVETRONIX HOMERUN CABLE	■	BARE COPPER WIRE TIP
Ⓕ	LC/LC 6MMFO FIBER CABLE (OUTDOOR RATED)	△	UNTERMINATED FIBER END
Ⓖ	LC/LC SMFO DUPLEX UPC PATCH CABLE	○	EXISTING FIBER OPTIC SPLICE
Ⓗ	LC/SC SMFO DUPLEX UPC PATCH CABLE		





FIBER OPTIC PATCH PANEL
COUPLER PLATE LAYOUT

NOTES:

1. CONTRACTOR SHALL PROVIDE SFP+ FIBER OPTIC MODULE PORTS FOR PORTS #11 THRU #14 AS SHOWN ON THIS SHEET AND PER MANUFACTURE RECOMMENDATION.
2.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn					
TIME	9:21:01 AM					
DATE	11/1/2022					
PLOTTED BY	fuestm					
DESIGNED BY	M. FUEST					
ENTERED BY	K. WACHTER					
CHECKED BY	S. MERCER					
PROJ. ENGR.	M. HARWOOD					
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY		

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

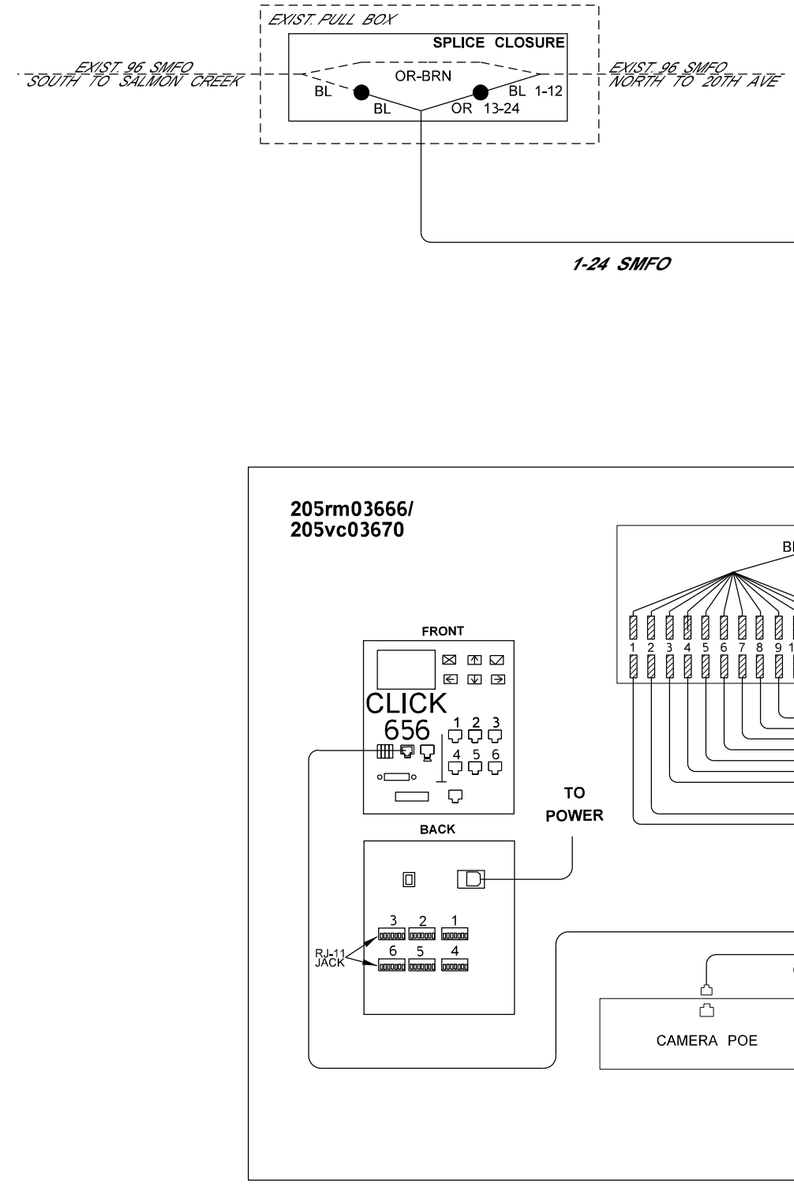
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

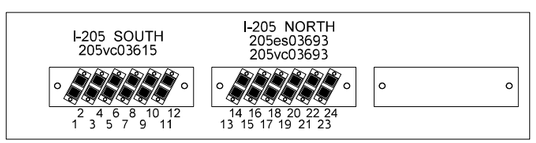
ITS DETAILS

Plot 34
PLAN REF NO
ITD34
SHEET 93 OF 164 SHEETS

LEGEND

Ⓐ	CAT-5E CABLE		RJ-45 ETHERNET CONNECTOR
Ⓑ	SC/SC SMFO DUPLEX UPC PATCH CABLE		SC FIBER OPTIC PIGTAIL
Ⓒ	SC/SC 6MMFO FIBER CABLE (OUTDOOR RATED)		LC FIBER OPTIC PIGTAIL
Ⓓ	4CS TWISTED PAIR COMM. CABLE		FIBER OPTIC SPLICE
Ⓔ	WAVETRONIX HOMERUN CABLE		BARE COPPER WIRE TIP
Ⓕ	LC/LC 6MMFO FIBER CABLE (OUTDOOR RATED)		UNTERMINATED FIBER END
Ⓖ	LC/LC SMFO DUPLEX UPC PATCH CABLE		EXISTING FIBER OPTIC SPLICE
Ⓗ	LC/SC SMFO DUPLEX UPC PATCH CABLE		





FIBER OPTIC PATCH PANEL
COUPLER PLATE LAYOUT

NOTES:

1. CONTRACTOR SHALL PROVIDE SFP+ FIBER OPTIC MODULE PORTS FOR PORTS #11 THRU #14 AS SHOWN ON THIS SHEET AND PER MANUFACTURE RECOMMENDATION.
2. ALL CABLES SHALL BE MOUNTED OR PLACED OUT OF THE WAY AS TO NOT OBSTRUCT THE CABINET PULL-OUT DRAWER.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn						
TIME	9:21:06 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
DATE	11/1/2022						
PLOTTED BY	fuestm				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST						
ENTERED BY	K. WACHTER						
CHECKED BY	S. MERCER				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA JO HARWOOD DILLON · STATE OF WASHINGTON · 39399 · REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

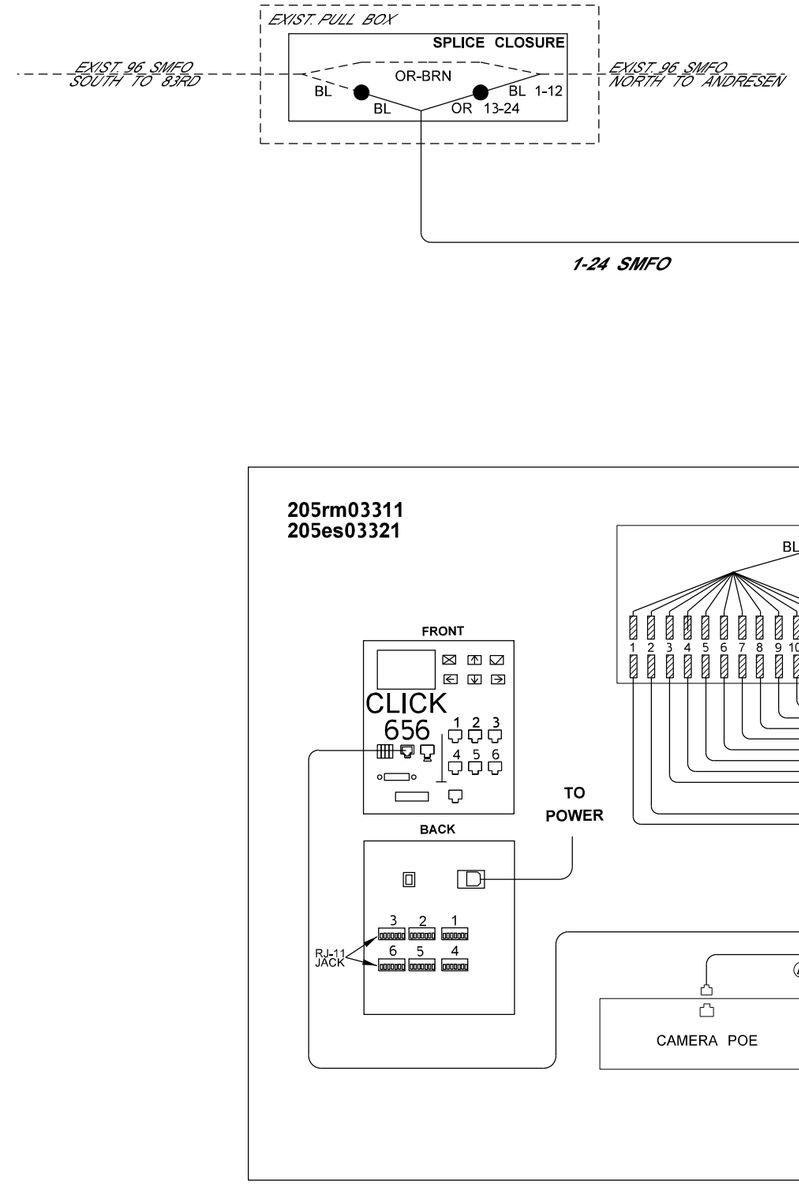
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

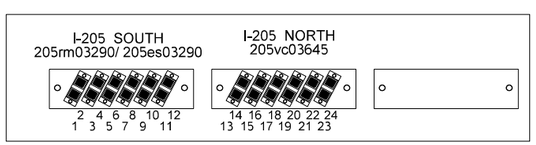
ITS DETAILS

Plot 35
PLAN REF NO
ITD35
SHEET 94 OF 164 SHEETS

LEGEND

Ⓐ	CAT-5E CABLE		RJ-45 ETHERNET CONNECTOR
Ⓑ	SC/SC SMFO DUPLEX UPC PATCH CABLE		SC FIBER OPTIC PIGTAIL
Ⓒ	SC/SC 6MMFO FIBER CABLE (OUTDOOR RATED)		LC FIBER OPTIC PIGTAIL
Ⓓ	4CS TWISTED PAIR COMM. CABLE		FIBER OPTIC SPLICE
Ⓔ	WAVETRONIX HOMERUN CABLE		BARE COPPER WIRE TIP
Ⓕ	LC/LC 6MMFO FIBER CABLE (OUTDOOR RATED)		UNTERMINATED FIBER END
Ⓖ	LC/LC SMFO DUPLEX UPC PATCH CABLE		EXISTING FIBER OPTIC SPLICE
Ⓗ	LC/SC SMFO DUPLEX UPC PATCH CABLE		





FIBER OPTIC PATCH PANEL
COUPLER PLATE LAYOUT

NOTES:

1. CONTRACTOR SHALL PROVIDE SFP+ FIBER OPTIC MODULE PORTS FOR PORTS #11 THRU #14 AS SHOWN ON THIS SHEET AND PER MANUFACTURE RECOMMENDATION.
2. ALL CABLES SHALL BE MOUNTED OR PLACED OUT OF THE WAY AS TO NOT OBSTRUCT THE CABINET PULL-OUT DRAWER.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn						
TIME	9:21:09 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
DATE	11/1/2022						
PLOTTED BY	fuestm				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST						
ENTERED BY	K. WACHTER						
CHECKED BY	S. MERCER				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA JO HARWOOD DILLON — STATE OF WASHINGTON — 39399 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

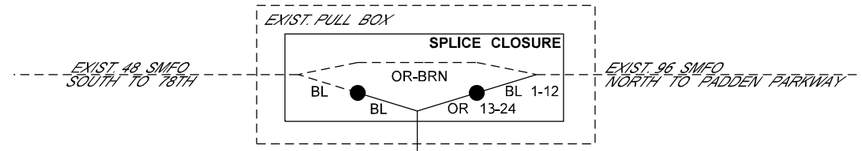
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 36
PLAN REF NO
ITD36
SHEET 95 OF 164 SHEETS

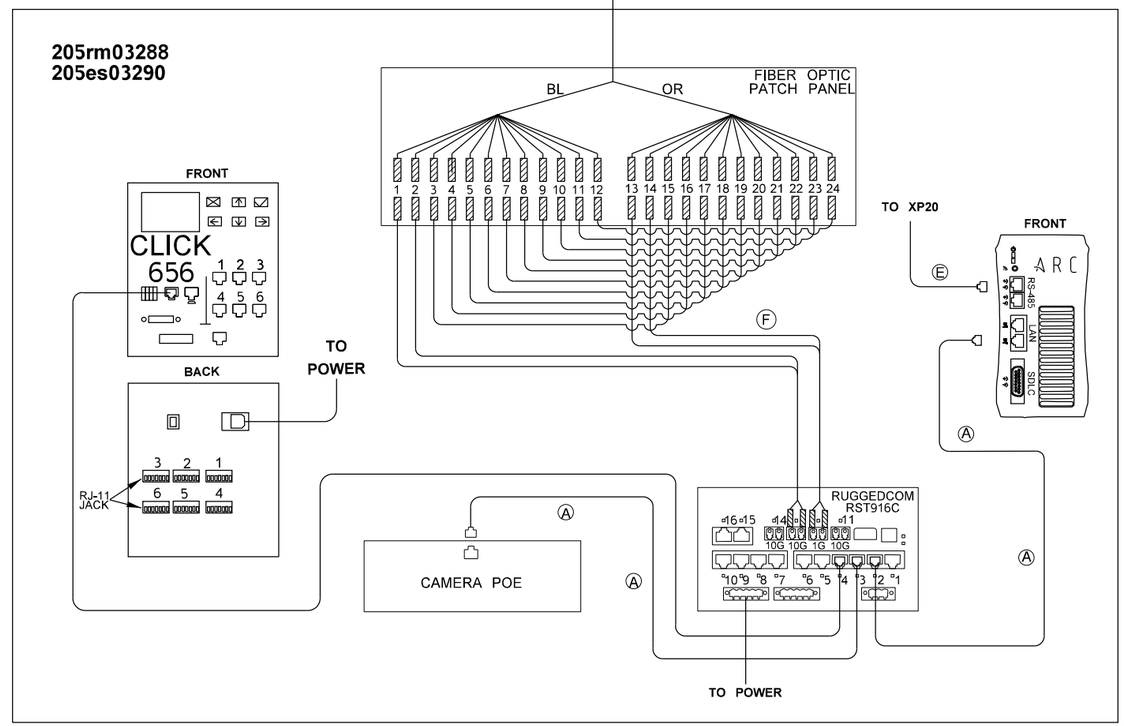
LEGEND

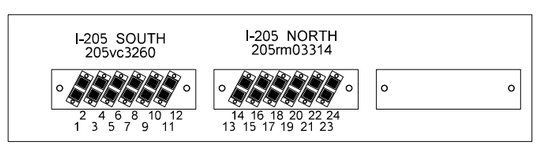
Ⓐ	CAT-5E CABLE		RJ-45 ETHERNET CONNECTOR
Ⓑ	SC/SC SMFO DUPLEX UPC PATCH CABLE		SC FIBER OPTIC PIGTAIL
Ⓒ	SC/SC 6MMFO FIBER CABLE (OUTDOOR RATED)		LC FIBER OPTIC PIGTAIL
Ⓓ	4CS TWISTED PAIR COMM. CABLE		FIBER OPTIC SPLICE
Ⓔ	WAVETRONIX HOMERUN CABLE		BARE COPPER WIRE TIP
Ⓕ	LC/LC 6MMFO FIBER CABLE (OUTDOOR RATED)		UNTERMINATED FIBER END
Ⓖ	LC/LC SMFO DUPLEX UPC PATCH CABLE		EXISTING FIBER OPTIC SPLICE
Ⓗ	LC/SC SMFO DUPLEX UPC PATCH CABLE		



1-24 SMFO

1-24 SMFO





FIBER OPTIC PATCH PANEL
COUPLER PLATE LAYOUT

NOTES:

1. CONTRACTOR SHALL PROVIDE SFP+ FIBER OPTIC MODULE PORTS FOR PORTS #11 THRU #14 AS SHOWN ON THIS SHEET AND PER MANUFACTURE RECOMMENDATION.
2. ALL CABLES SHALL BE MOUNTED OR PLACED OUT OF THE WAY AS TO NOT OBSTRUCT THE CABINET PULL-OUT DRAWER.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn						
TIME	9:21:14 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
DATE	11/1/2022						
PLOTTED BY	fuestm				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST						
ENTERED BY	K. WACHTER						
CHECKED BY	S. MERCER				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA JO HARWOOD DUNCAN · STATE OF WASHINGTON · 39399 · REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

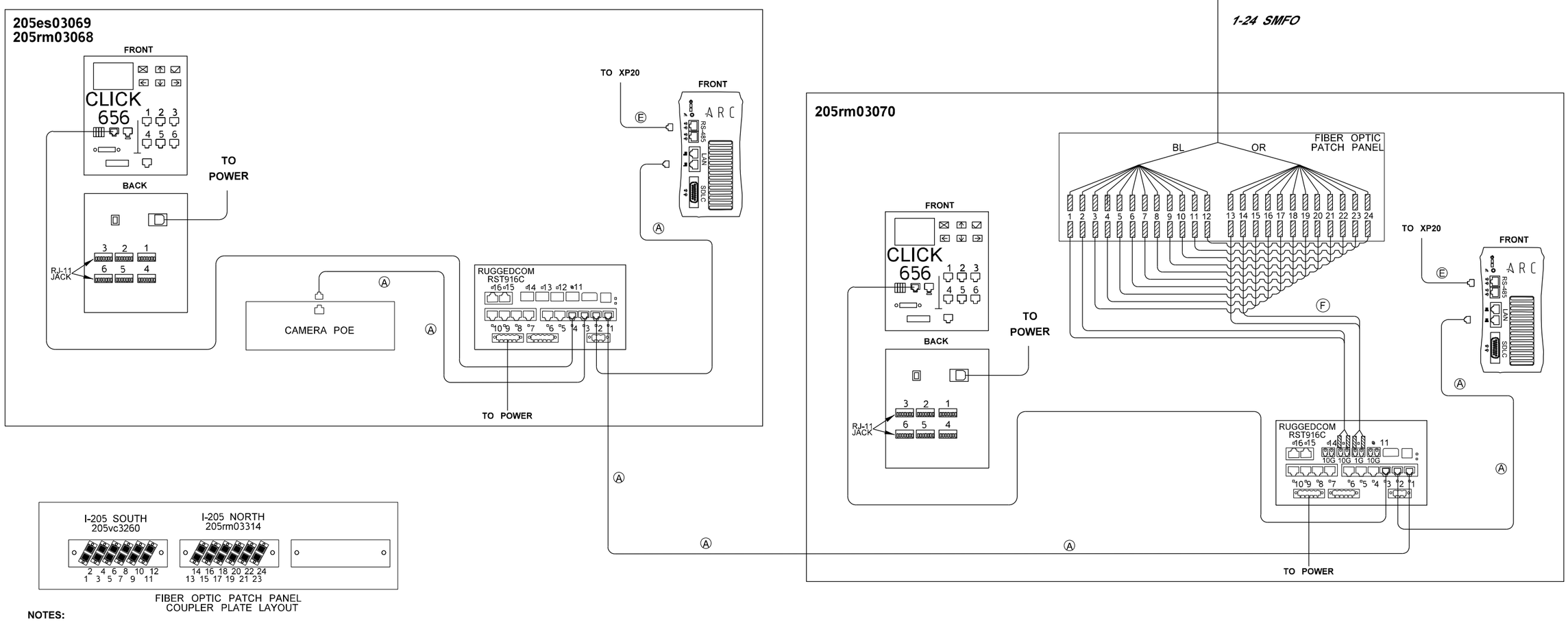
Plot 37

PLAN REF NO
ITD37

SHEET 96 OF 164 SHEETS

LEGEND

Ⓐ	CAT-5E CABLE		RJ-45 ETHERNET CONNECTOR
Ⓑ	SC/SC SMFO DUPLEX UPC PATCH CABLE		SC FIBER OPTIC PIGTAIL
Ⓒ	SC/SC 6MMFO FIBER CABLE (OUTDOOR RATED)		LC FIBER OPTIC PIGTAIL
Ⓓ	4CS TWISTED PAIR COMM. CABLE		FIBER OPTIC SPLICE
Ⓔ	WAVETRONIX HOMERUN CABLE		BARE COPPER WIRE TIP
Ⓕ	LC/LC 6MMFO FIBER CABLE (OUTDOOR RATED)		UNTERMINATED FIBER END
Ⓖ	LC/LC SMFO DUPLEX UPC PATCH CABLE		EXISTING FIBER OPTIC SPLICE
Ⓗ	LC/SC SMFO DUPLEX UPC PATCH CABLE		



NOTES:

1. CONTRACTOR SHALL PROVIDE SFP+ FIBER OPTIC MODULE PORTS FOR PORTS #11 THRU #14 AS SHOWN ON THIS SHEET AND PER MANUFACTURE RECOMMENDATION.
2. ALL CABLES SHALL BE MOUNTED OR PLACED OUT OF THE WAY AS TO NOT OBSTRUCT THE CABINET PULL-OUT DRAWER.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn
TIME	9:21:19 AM
DATE	11/1/2022
PLOTTED BY	fuestm
DESIGNED BY	M. FUEST
ENTERED BY	K. WACHTER
CHECKED BY	S. MERCER
PROJ. ENGR.	M. HARWOOD
REGIONAL ADM.	C. FRANCIS

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

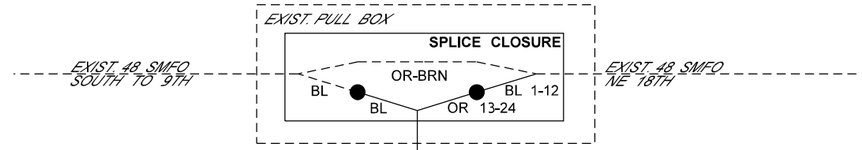
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 38
PLAN REF NO
ITD38
SHEET 97 OF 164 SHEETS

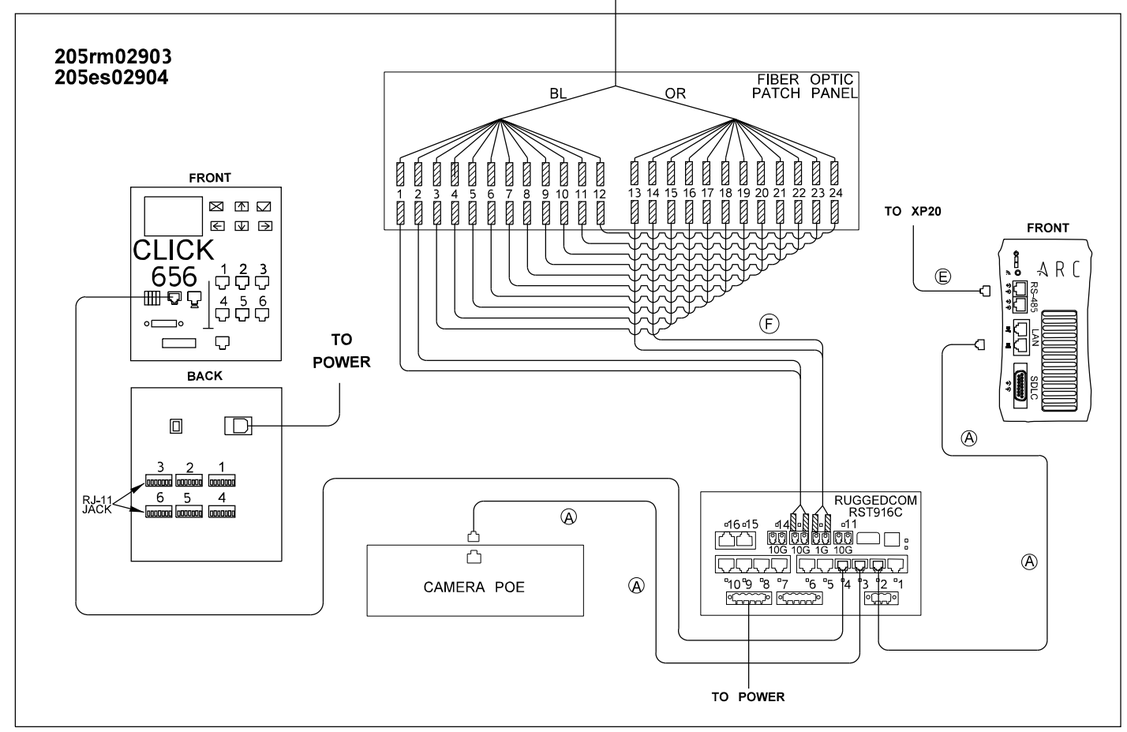
LEGEND

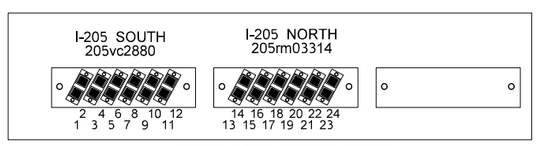
Ⓐ	CAT-5E CABLE		RJ-45 ETHERNET CONNECTOR
Ⓑ	SC/SC SMFO DUPLEX UPC PATCH CABLE		SC FIBER OPTIC PIGTAIL
Ⓒ	SC/SC 6MMFO FIBER CABLE (OUTDOOR RATED)		LC FIBER OPTIC PIGTAIL
Ⓓ	4CS TWISTED PAIR COMM. CABLE		FIBER OPTIC SPLICE
Ⓔ	WAVETRONIX HOMERUN CABLE		BARE COPPER WIRE TIP
Ⓕ	LC/LC 6MMFO FIBER CABLE (OUTDOOR RATED)		UNTERMINATED FIBER END
Ⓖ	LC/LC SMFO DUPLEX UPC PATCH CABLE		EXISTING FIBER OPTIC SPLICE
Ⓗ	LC/SC SMFO DUPLEX UPC PATCH CABLE		



1-24 SMFO

1-24 SMFO





FIBER OPTIC PATCH PANEL
COUPLER PLATE LAYOUT

NOTES:

1. CONTRACTOR SHALL PROVIDE SFP+ FIBER OPTIC MODULE PORTS FOR PORTS #11 THRU #14 AS SHOWN ON THIS SHEET AND PER MANUFACTURE RECOMMENDATION.
2. ALL CABLES SHALL BE MOUNTED OR PLACED OUT OF THE WAY AS TO NOT OBSTRUCT THE CABINET PULL-OUT DRAWER.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn
TIME	9:21:21 AM
DATE	11/1/2022
PLOTTED BY	fuestm
DESIGNED BY	M. FUEST
ENTERED BY	K. WACHTER
CHECKED BY	S. MERCER
PROJ. ENGR.	M. HARWOOD
REGIONAL ADM.	C. FRANCIS

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. STP-2051(287)

JOB NUMBER 22X332 | CRRSAA(UL)-0051(318)

CONTRACT NO. | LOCATION NO.

SEE SHEET CT1 DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

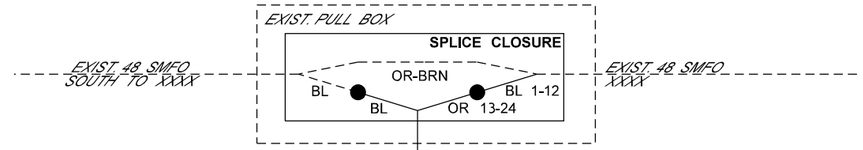
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 39
PLAN REF NO ITD39
SHEET 98 OF 164 SHEETS

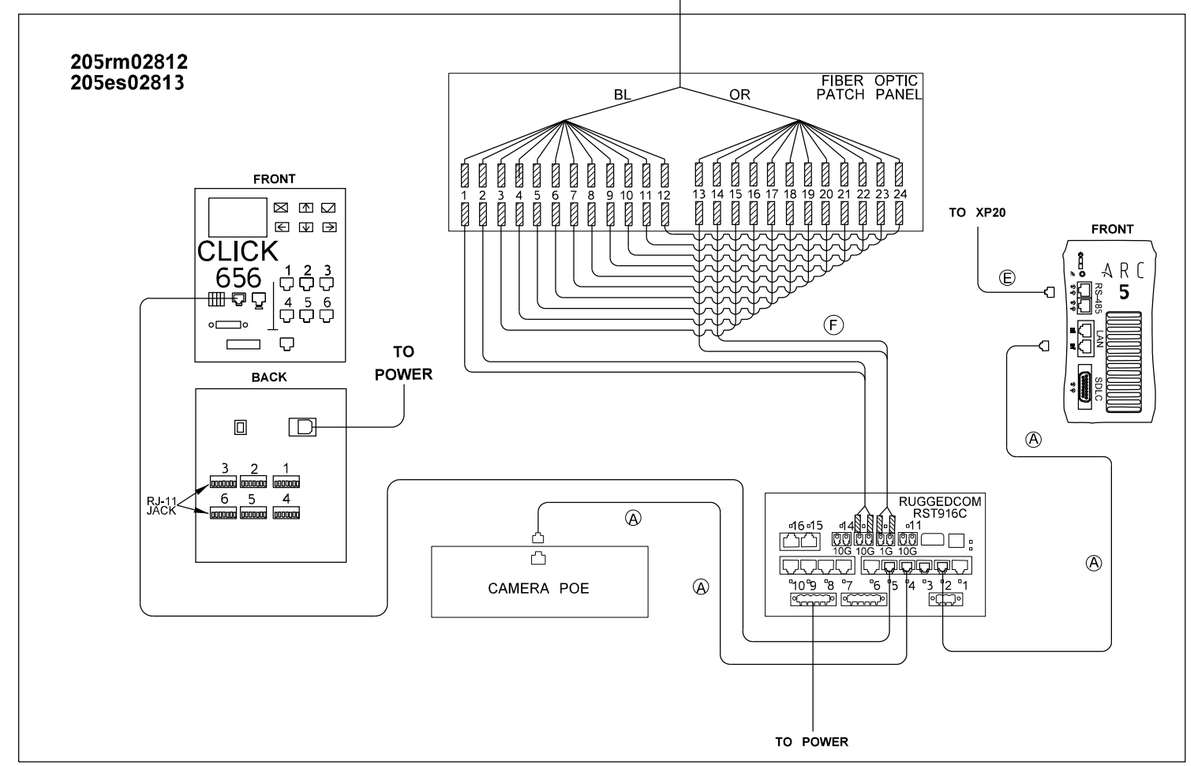
LEGEND

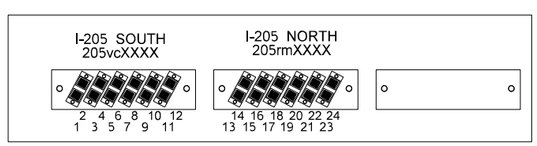
Ⓐ	CAT-5E CABLE		RJ-45 ETHERNET CONNECTOR
Ⓑ	SC/SC SMFO DUPLEX UPC PATCH CABLE		SC FIBER OPTIC PIGTAIL
Ⓒ	SC/SC 6MMFO FIBER CABLE (OUTDOOR RATED)		LC FIBER OPTIC PIGTAIL
Ⓓ	4CS TWISTED PAIR COMM. CABLE		FIBER OPTIC SPLICE
Ⓔ	WAVETRONIX HOMERUN CABLE		BARE COPPER WIRE TIP
Ⓕ	LC/LC 6MMFO FIBER CABLE (OUTDOOR RATED)		UNTERMINATED FIBER END
Ⓖ	LC/LC SMFO DUPLEX UPC PATCH CABLE		EXISTING FIBER OPTIC SPLICE
Ⓗ	LC/SC SMFO DUPLEX UPC PATCH CABLE		



1-24 SMFO

1-24 SMFO





FIBER OPTIC PATCH PANEL
COUPLER PLATE LAYOUT

NOTES:

1. CONTRACTOR SHALL PROVIDE SFP+ FIBER OPTIC MODULE PORTS FOR PORTS #11 THRU #14 AS SHOWN ON THIS SHEET AND PER MANUFACTURE RECOMMENDATION.
2. ALL CABLES SHALL BE MOUNTED OR PLACED OUT OF THE WAY AS TO NOT OBSTRUCT THE CABINET PULL-OUT DRAWER.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD.dgn
TIME	9:21:25 AM
DATE	11/1/2022
PLOTTED BY	fuestm
DESIGNED BY	M. FUEST
ENTERED BY	M. FUEST
CHECKED BY	S. MERCER
PROJ. ENGR.	M. HARWOOD
REGIONAL ADM.	C. FRANCIS

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

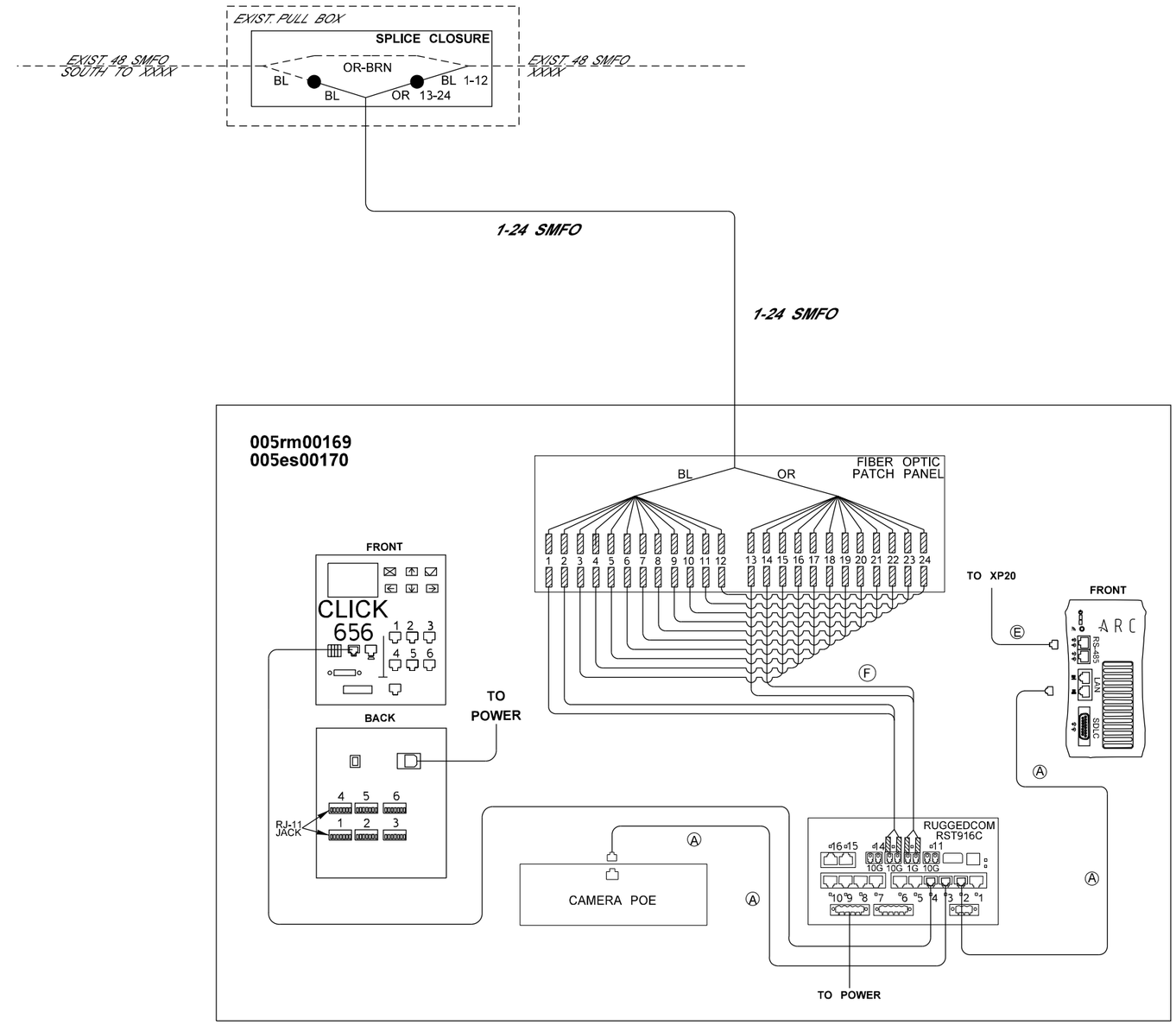
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

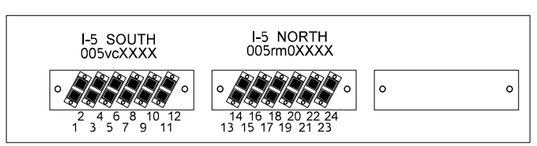
ITS DETAILS

Plot 40
PLAN REF NO
ITD40
SHEET 99 OF 164 SHEETS

LEGEND

Ⓐ	CAT-5E CABLE		RJ-45 ETHERNET CONNECTOR
Ⓑ	SC/SC SMFO DUPLEX UPC PATCH CABLE		SC FIBER OPTIC PIGTAIL
Ⓒ	SC/SC 6MMFO FIBER CABLE (OUTDOOR RATED)		LC FIBER OPTIC PIGTAIL
Ⓓ	4CS TWISTED PAIR COMM. CABLE	●	FIBER OPTIC SPLICE
Ⓔ	WAVETRONIX HOMERUN CABLE	■	BARE COPPER WIRE TIP
Ⓕ	LC/LC 6MMFO FIBER CABLE (OUTDOOR RATED)	△	UNTERMINATED FIBER END
Ⓖ	LC/LC SMFO DUPLEX UPC PATCH CABLE	○	EXISTING FIBER OPTIC SPLICE
Ⓗ	LC/SC SMFO DUPLEX UPC PATCH CABLE		





FIBER OPTIC PATCH PANEL
COUPLER PLATE LAYOUT

NOTES:

1. CONTRACTOR SHALL PROVIDE SFP+ FIBER OPTIC MODULE PORTS FOR PORTS #11 THRU #14 AS SHOWN ON THIS SHEET AND PER MANUFACTURE RECOMMENDATION.
2. ALL CABLES SHALL BE MOUNTED OR PLACED OUT OF THE WAY AS TO NOT OBSTRUCT THE CABINET PULL-OUT DRAWER.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD2.dgn			
TIME	9:28:00 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	K. WACHTER			
CHECKED BY	S. MERCER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

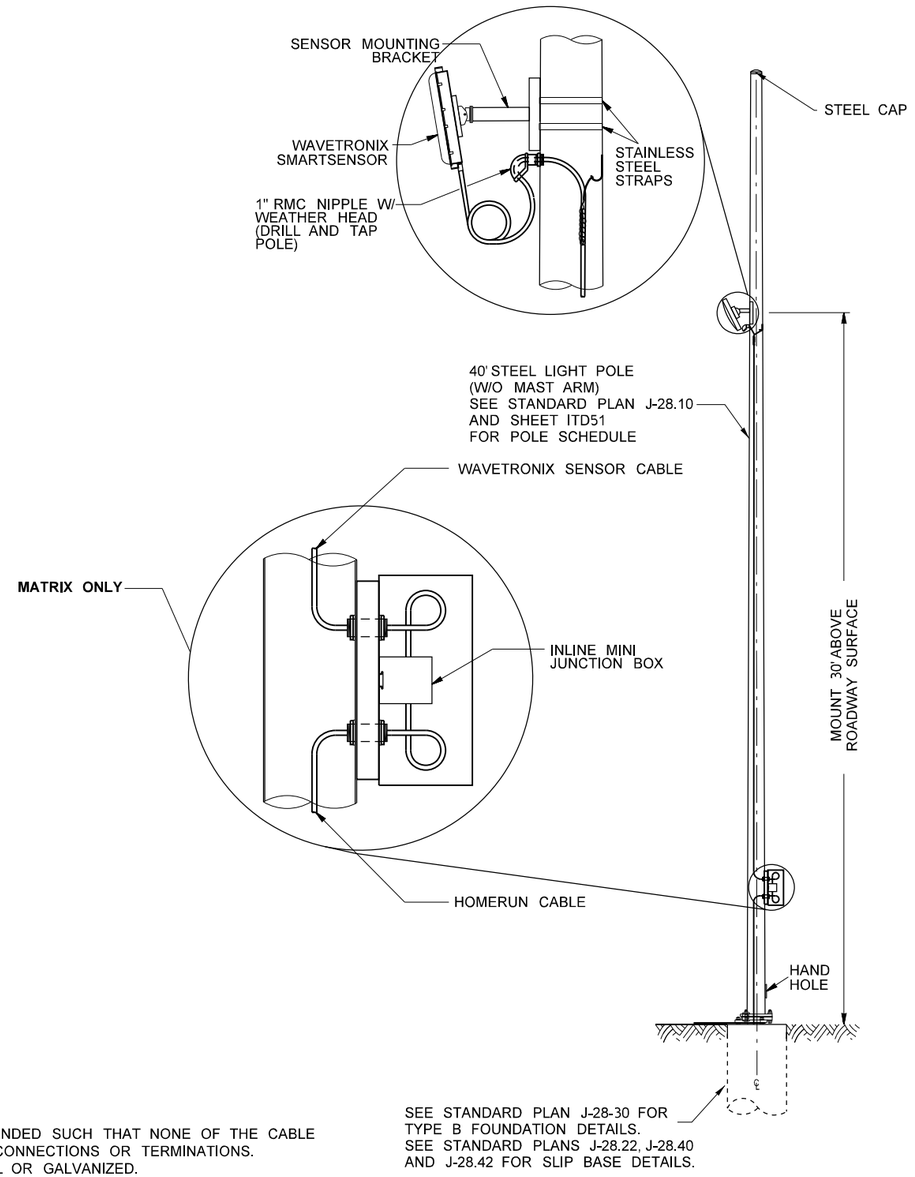
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

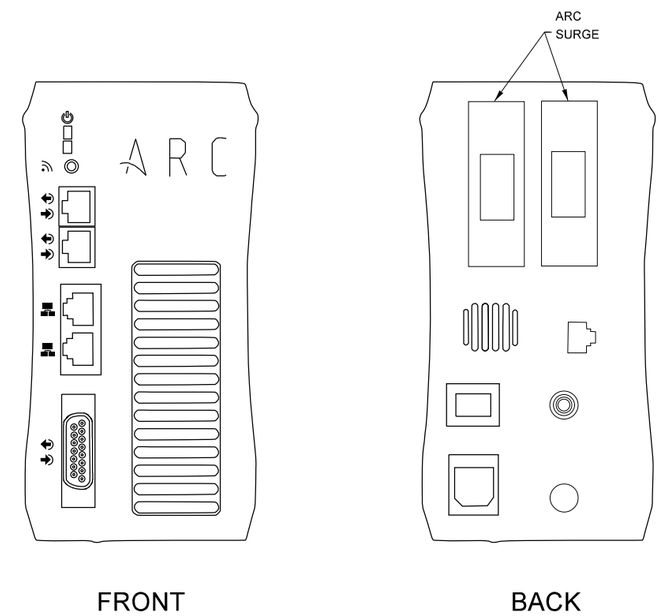
ITS DETAILS

PLAN REF NO ITD41

SHEET 100 OF 164 SHEETS

WAVETRONIX MATRIX & XP20





NOTES:

1. CABLES INSIDE THE POLE SHALL BE SUSPENDED SUCH THAT NONE OF THE CABLE WEIGHT IS TRANSFERRED TO THE CABLE CONNECTIONS OR TERMINATIONS.
2. ALL HARDWARE SHALL BE STAINLESS STEEL OR GALVANIZED.
3. ATP HOMERUN CABLE IS REQUIRED BETWEEN TERMINAL CABINET AND DATA STATION CABINET.
4. TERMINAL CABINET IS ONLY REQUIRED FOR USE WITH WAVETRONIX MATRIX SENSOR.

NOTES:

1. CONTRACTOR SHALL INCLUDE TWO ARC SURGE CARDS PER ARC DEVICE.

RVSD MOUNTING DETAILS

NOT TO SCALE

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD2.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)	Washington State Department of Transportation
TIME	9:28:02 AM							I-5/NB FOURTH PLAIN ON-RAMP I-205/SB 134TH ST TO MILL PLAIN RAMP METERS
DATE	11/1/2022				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)	
PLOTTED BY	fuestm							
DESIGNED BY	M. FUEST				CONTRACT NO.		LOCATION NO.	ITS DETAILS
ENTERED BY	K. WACHTER							
CHECKED BY	S. MERCER							
PROJ. ENGR.	M. HARWOOD							
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY				

MONICA D. HARWOOD DIAZ — STATE OF WASHINGTON — 39399 — REGISTERED PROFESSIONAL ENGINEER

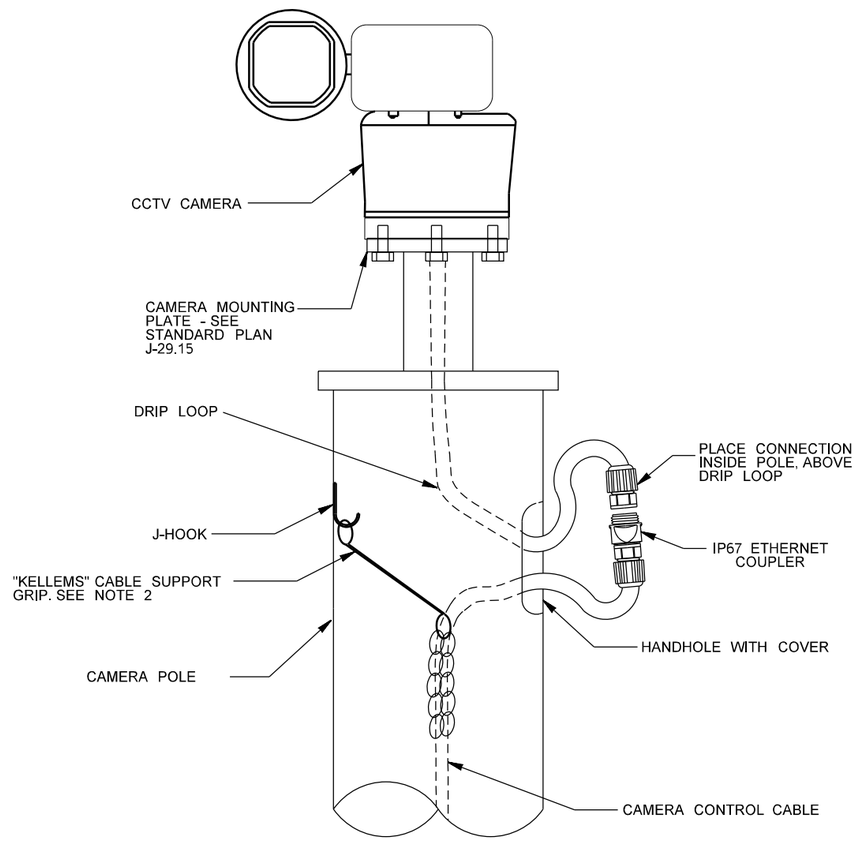
SEE SHEET CT1 DATE — P.E. STAMP BOX

DATE — P.E. STAMP BOX

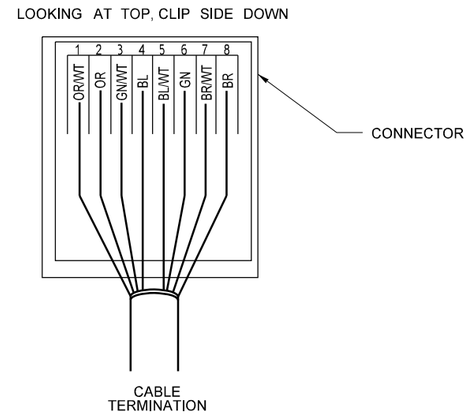
Plot 1

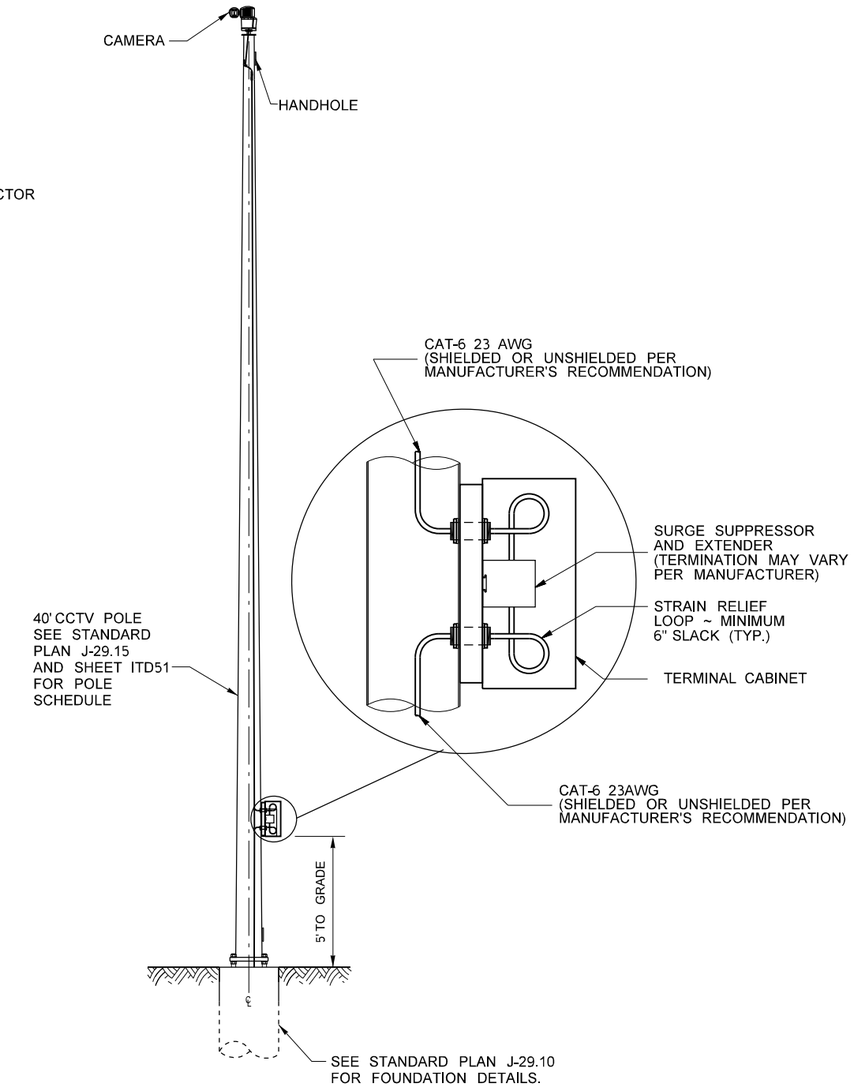
PLAN REF NO ITD42

SHEET 101 OF 164 SHEETS



CAMERA CONTROL CABLE WIRING DETAIL





CAMERA POLE DETAILS

NOTES:

1. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR THEIR WRITTEN APPROVAL ALL DETAILS OF CABLES AND CONNECTIONS FOR CCTV CAMERA POLE, PRIOR TO CONSTRUCTION
2. CABLES INSIDE THE POLE SHALL BE SUSPENDED SUCH THAT NONE OF THE CABLE WEIGHT IS TRANSFERRED TO THE CABLE CONNECTIONS OR TERMINATIONS.
3. ALL HARDWARE SHALL BE STAINLESS STEEL OR GALVANIZED.
4. SEE SHEETS ITDX FOR CAMERA CONTROL BRACKET DETAILS.
5. SEE SHEET ITD44 FOR CAMERA COMMUNICATION PANEL LAYOUT.

NOT TO SCALE

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD2.dgn						
TIME	9:28:03 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
DATE	11/1/2022						
PLOTTED BY	fuestm				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST						
ENTERED BY	K. WACHTER						
CHECKED BY	S. MERCER				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA JO HARWOOD DILLON, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

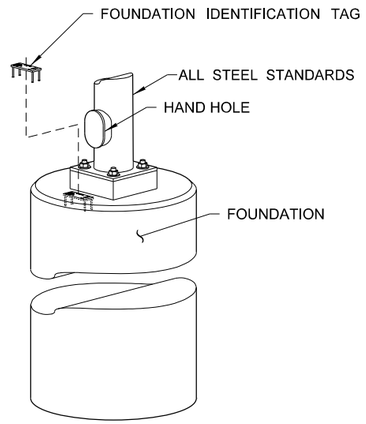
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

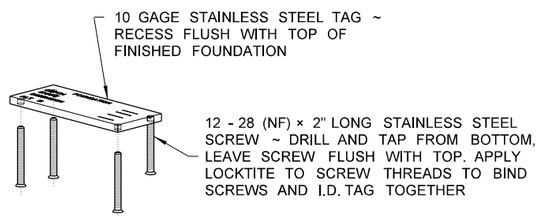
ITS DETAILS

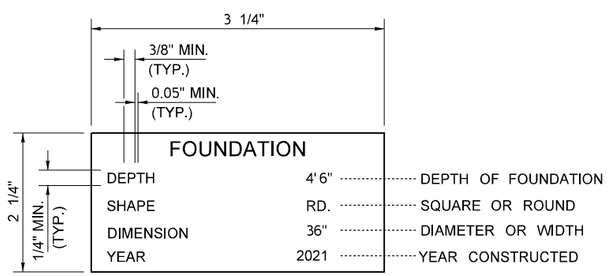
Plot 2
PLAN REF NO ITD43
SHEET 102 OF 164 SHEETS



OBLIQUE VIEW

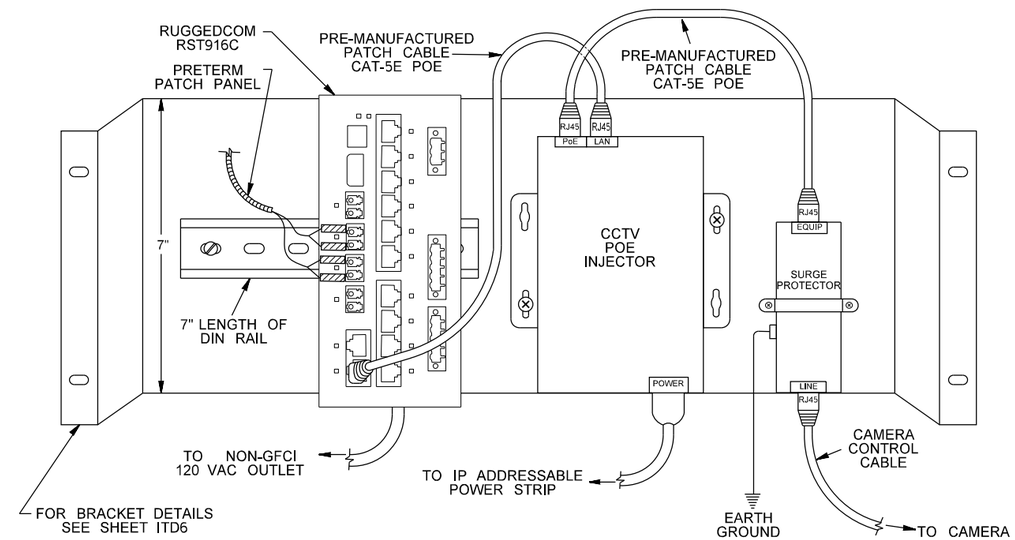
REINFORCING AND ANCHOR BOLTS
NOT SHOWN FOR CLARITY





TEXT SHALL BE ENGRAVED 0.014" DEEP

FOUNDATION IDENTIFICATION TAG DETAILS



CAMERA COMMUNICATION PANEL

NOT TO SCALE

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TIME	9:28:04 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	K. WACHTER			
CHECKED BY	S. MERCER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

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CONTRACT NO.		LOCATION NO.

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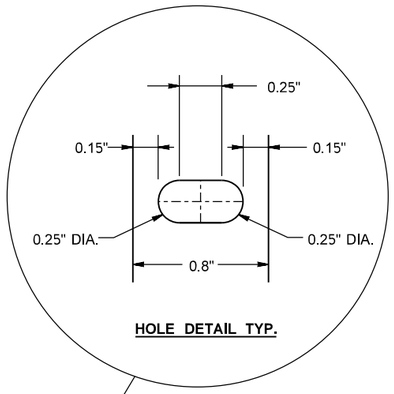
Washington State
Department of Transportation

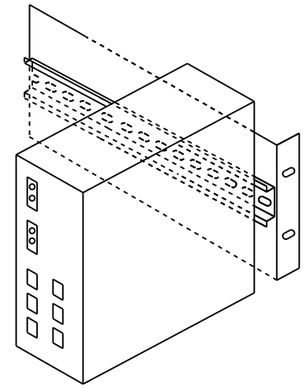
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

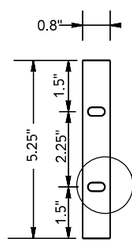
Plot 3
PLAN REF NO
ITD44
SHEET
103
OF
164
SHEETS



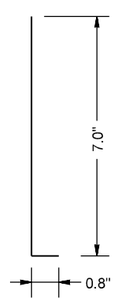
HOLE DETAIL TYP.



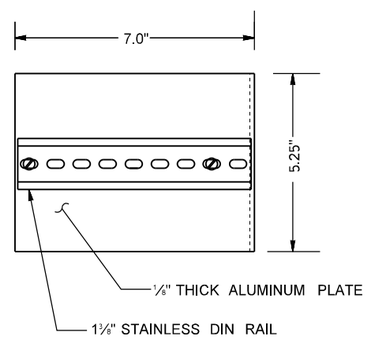
ISOMETRIC VIEW



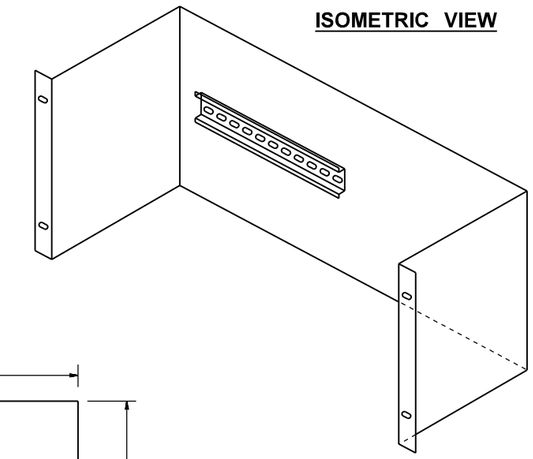
SIDE VIEW



TOP VIEW

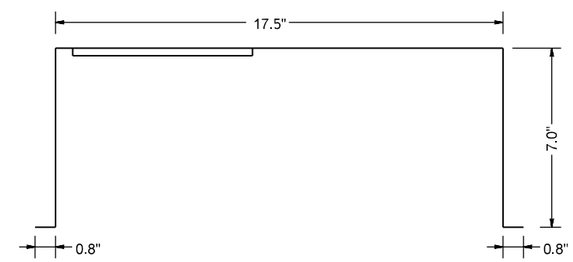


FRONT VIEW

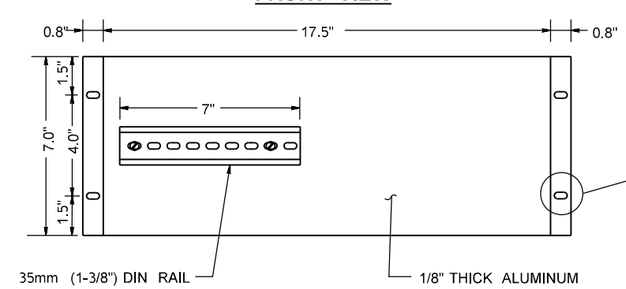


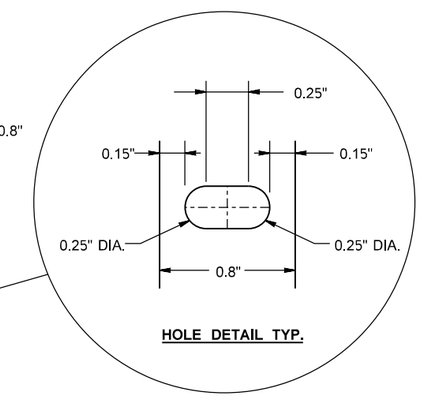
ISOMETRIC VIEW

TOP VIEW



FRONT VIEW





HOLE DETAIL TYP.

NOTES:

1. CORE DRILLING NOT PERMITTED
2. CABINET IS SHOWN FOR EXAMPLE PURPOSES ONLY
3. CONDUIT SHALL EXIT BACK OF BARRIER JUNCTION BOX AND MOUNT TO THE BOTTOM OF THE EXISTING BARRIER

NOT TO SCALE

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD2.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
TIME	9:28:06 AM						
DATE	11/1/2022						
PLOTTED BY	fuestm				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST						
ENTERED BY	K. WACHTER						
CHECKED BY	S. MERCER				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA JO HARWOOD DUNCAN — STATE OF WASHINGTON — 39399 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

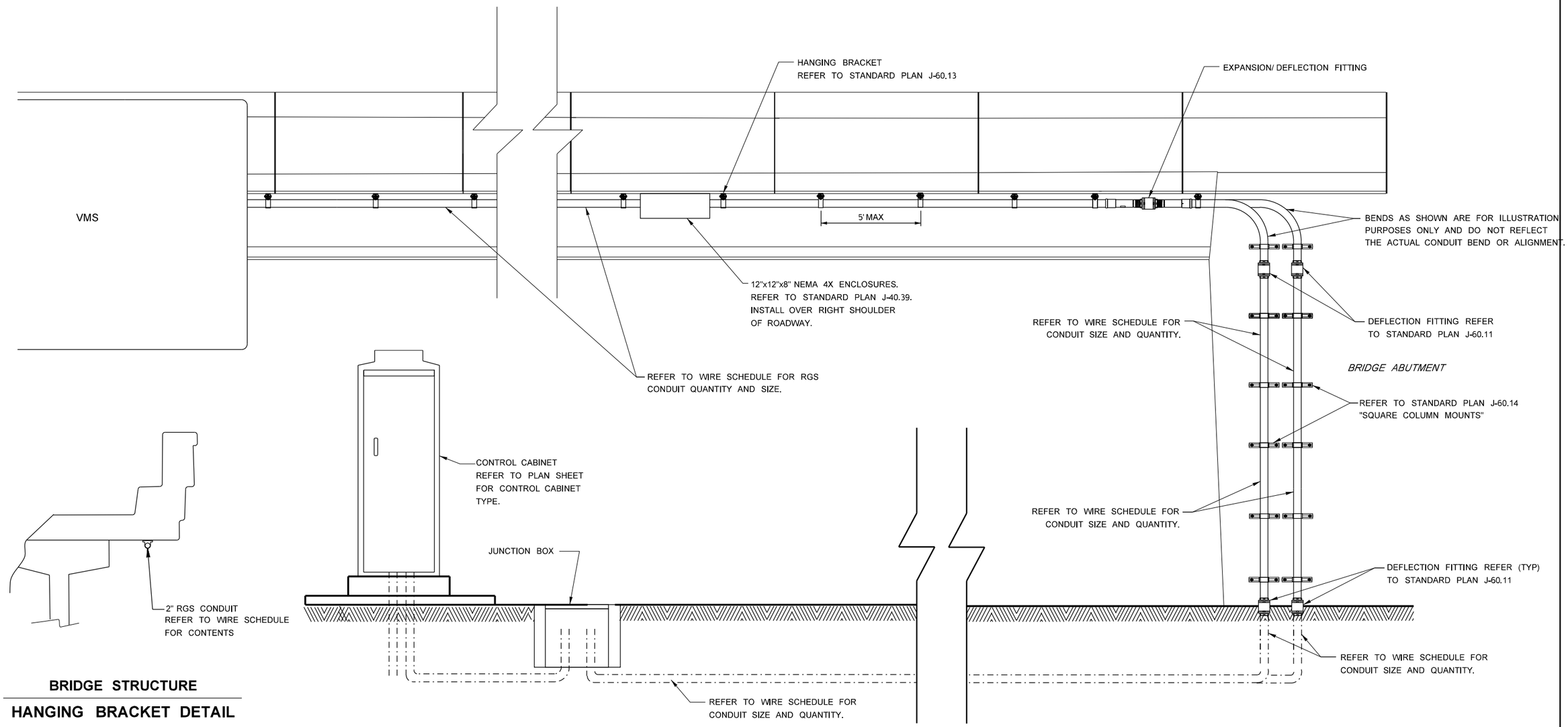
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 4
PLAN REF NO ITD45
SHEET 104 OF 164 SHEETS



BRIDGE STRUCTURE

HANGING BRACKET DETAIL

NOTES:

1. CONTRACTOR SHALL USE A NON-INTRUSIVE REBAR LOCATOR, SCANNER OR X-RAY TO IDENTIFY AND AVOID ALL REBAR AND CONDUIT PRIOR TO DRILLING.
2. EPOXY ANCHOR HOLES SHALL NOT BE CORE DRILLED.

CONDUIT ROUTE DETAIL - CONCRETE BRIDGE

NOT TO SCALE

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD2.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
TIME	9:28:07 AM				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
DATE	11/1/2022				CONTRACT NO.		LOCATION NO.
PLOTTED BY	fuestm						
DESIGNED BY	M. FUEST						
ENTERED BY	K. WACHTER						
CHECKED BY	S. MERCER						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA JO HARWOOD DUNCAN — STATE OF WASHINGTON — 39399 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE
P.E. STAMP BOX

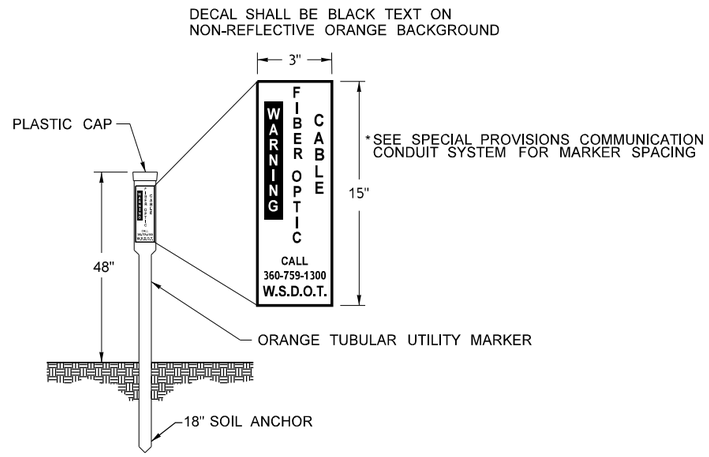
DATE
P.E. STAMP BOX

Washington State Department of Transportation

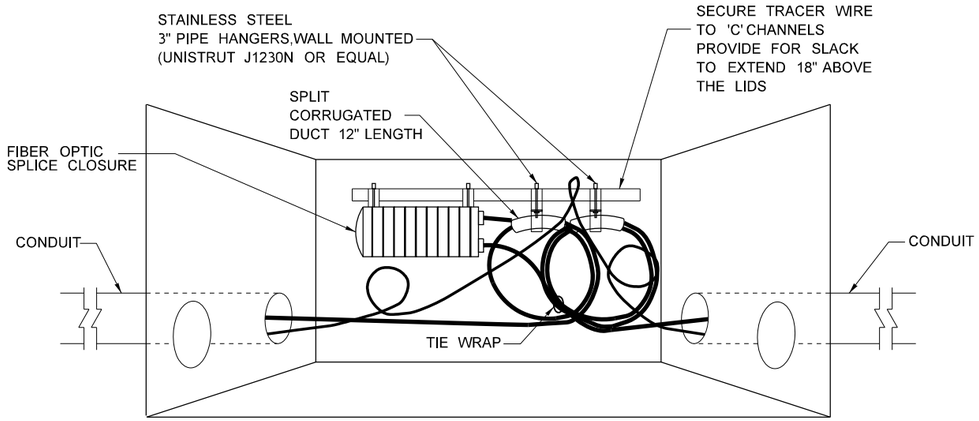
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN RAMP METERS

ITS DETAILS

Plot 5
PLAN REF NO
ITD46
SHEET 105 OF 164 SHEETS

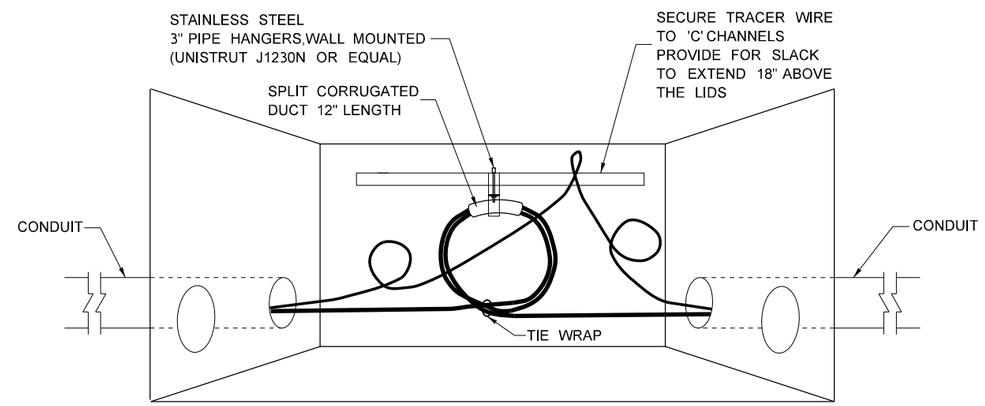


ABOVE GROUND MARKER



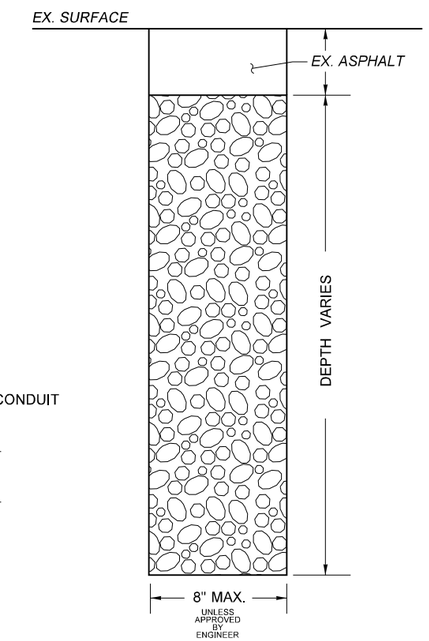
COIL CABLE BY USING FIGURE 8 FOLDED IN THE MIDDLE TO MAKE A LOOP.

CABLE VAULT RACKING PLAN AND CONDUIT INSTALLATION



COIL CABLE BY USING FIGURE 8 FOLDED IN THE MIDDLE TO MAKE A LOOP.

PULL BOX RACKING PLAN AND CONDUIT INSTALLATION



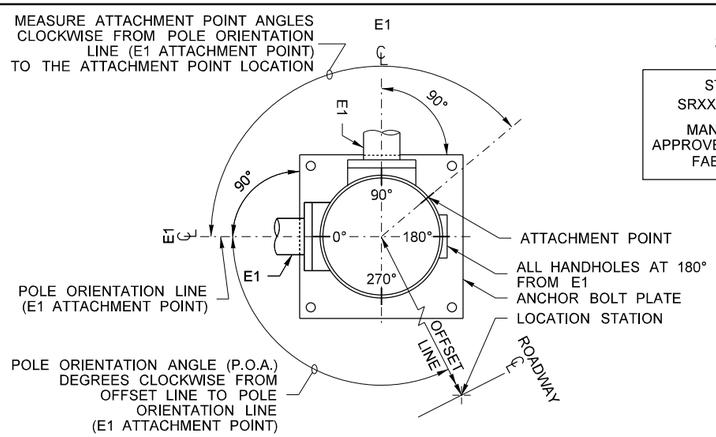
UTILITY POTHOLE DETAILS

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD2.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)			Washington State Department of Transportation	I-5/NB FOURTH PLAIN ON-RAMP I-205/SB 134TH ST TO MILL PLAIN RAMP METERS	Plot 6
TIME	9:28:09 AM											PLAN REF NO ITD47
DATE	11/1/2022				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)					SHEET 106 OF 164 SHEETS
PLOTTED BY	fuestm											
DESIGNED BY	M. FUEST											
ENTERED BY	K. WACHTER											
CHECKED BY	S. MERCER				CONTRACT NO.		LOCATION NO.				ITS DETAILS	
PROJ. ENGR.	M. HARWOOD											
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY								

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX



POLE ORIENTATION AND ATTACHMENT POINT DETAIL

SIGNAL STANDARD IDENTIFICATION TAG DETAIL

STD. NO. XX	SIGNAL STANDARD NO.	STD. NO. 02
SRXXX, MP XXX.XX	STATE ROUTE AND MILE POST NO.	SR97, MP 069.09
MANUFACTURER APPROVED DWG. XXXXXX	APPROVED DRAWING NO.	MANUFACTURER APPROVED DWG. AB12345
FAB. X/XX/XXXX	FABRICATION DATE	FAB. 6/14/2002

EXAMPLE

LUMINAIRE MAST ARM X Y Z (ft^3)	
MAST ARM LENGTH	X Y Z (ft^3)
6'	19.8
8'	26.4
10'	33.0
12'	39.6
14'	46.2
16'	52.8

SIGNS: 7 & 8

48"

18" | 1 CAR PER GREEN THIS LANE | 4C 4C

R10-1402

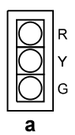
SEE SHEET SD1 FOR SIGN 9 DETAIL

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

LEGEND

a.	VEHICLE DISPLAY	f.	LUMINAIRE
b.	SIGN	g.	NOT USED
c.	NOT USED	h.	TERMINAL CABINET
d.	NOT USED	i.	NOT USED
e.	NOT USED	j.	HANDHOLE

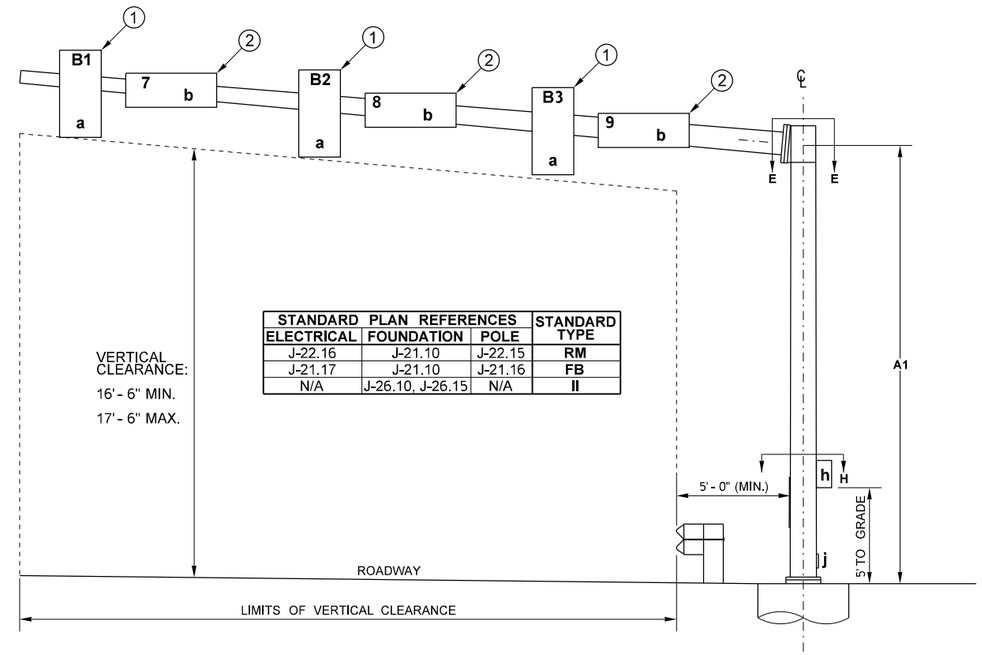
SIGNAL DISPLAY NOTES



1. ALL VEHICLE HEADS SHALL BE ALUMINUM.
2. ALL LENSES SHALL BE 12" LED TYPE
3. ALL VISORS SHALL BE 12" ALUMINUM TUNNEL
4. INSTALL BACKPLATES UNLESS OTHERWISE SPECIFIED IN THE PLANS. DO NOT INSTALL RETROREFLECTIVE TAPE ON BACKPLATES.
5. RAMP METER SIGNAL HEADS SHALL BE COVERED UNTIL APPROVED BY THE ENGINEER FOR OPERATION

MOUNTING NOTES:

1. FIELD INSTALLED. SEE **STANDARD PLAN G-30.10** FOR MOUNTING DETAILS.
2. PROVIDED OFFSET IS FOR INFORMATIONAL USE ONLY. ACTUAL OFFSETS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR
3. SIGNAL HEADS SHALL BE INSTALLED USING A TYPE N MOUNT IN THE CENTER OF THE LANE WHILE IN RAMP METER CONFIGURATION



STANDARD PLAN REFERENCES			STANDARD TYPE
ELECTRICAL	FOUNDATION	POLE	
J-22.16	J-21.10	J-22.15	RM
J-21.17	J-21.10	J-21.16	FB
N/A	J-26.10, J-26.15	N/A	II

TYPE II
SIGNAL STANDARD NO. 7 SHOWN

SIGNAL STANDARD DETAIL CHART

STD. No.	SR No.	SR MILE POST	FIELD LOCATION: LINE/STATION	OFFSET	LT.	RT.	ELEV.*	P.O.A.	POLE TYPE	MOUNTING HEIGHT (FT): A1	A2	SIGNAL MAST ARM DATA: OFFSETS (FT) (Z) (POLE ℄ TO ATTACHMENT POINT): B2	B1	8	7	WINDLOAD AREAS (FT^2) (X)(Y): B2	B1	8	7	LUMINAIRE ARM (FT): C	CALCULATED POLE XYZ (FT^3)**	POLE ATTACHMENT POINT ANGLES (DEGREES): E1	E2	FOUNDATION DESIGN XYZ (FT^3)	SOIL BEARING PRESSURE (PSF)	FOUNDATION DEPTH (FT) ALTERNATE 1: 3' RD.	3' SQ.	4' RD.	ALTERNATE 2: 3' RD.	4' RD.	REMARKS
1	I-205	36.57	A 14+41.49	32'		X	182'	0	II	18.75		32	44	28	40	9.2	9.2	6.0	6.0		1107	0		1500	1300	11		9	15	12	USE 45' MAST ARM
2	I-205	33.24	B 17+49.57	26'		X	245'	0	II	20.5		23	35	19	31	9.2	9.2	6.0	6.0		834	0		1350	1500	9			11		USE 35' MAST ARM
3	I-205	33.88	C 21+56.49	39'		X	242'	0	SD	18.75		37	50	33	46	9.2	9.2	6.0	6.0		1274	0	90	1900	2500	9		7	13	7	USE 50' MAST ARM FOR E1 USE 10' MAST ARM FOR E2
4	I-205	30.68	E 9+19.48	29'		X	196'	0	SD	20		27	41	23	37	9.2	9.2	6.0	6.0		986	0	90	1350	2500	7		6	7	6	USE 45' MAST ARM FOR E1 USE 10' MAST ARM FOR E2
5	I-205	30.68	F 34+85.72	41'	X		196'	0	II	19.25		28	41	24	37	9.2	9.2	6.0	6.0		1001	0		1350	2500	7		6	7	6	USE 45' MAST ARM

* ELEVATION IS TO TOP OF ROADWAY. FIELD VERIFY ELEVATION PRIOR TO ORDERING SIGNAL STANDARDS.

** CALCULATED POLE XYZ (FT) IS THE SUM OF THE TOTAL XYZ (FT) FOR THE SIGNAL ARM AND THE XYZ (FT) FOR THE LUMINAIRE ARM (IF PRESENT).

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD2.dgn
TIME	9:28:10 AM
DATE	11/1/2022
PLOTTED BY	fuestm
DESIGNED BY	M. FUEST
ENTERED BY	K. WACHTER
CHECKED BY	S. MERCER
PROJ. ENGR.	M. HARWOOD
REGIONAL ADM.	C. FRANCIS

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

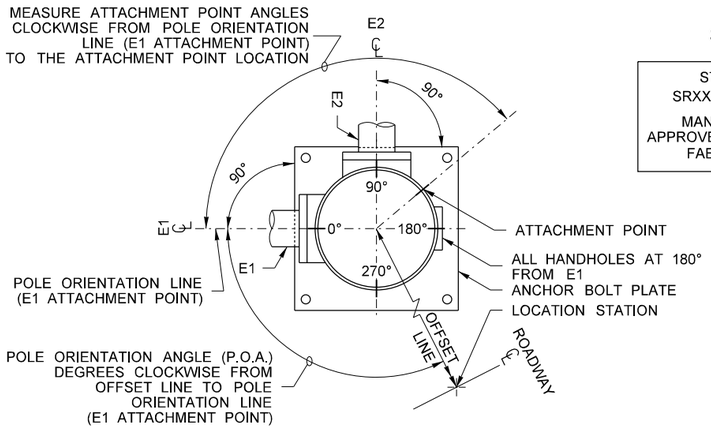
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 7
PLAN REF NO ITD48
SHEET 107 OF 164 SHEETS



POLE ORIENTATION AND ATTACHMENT POINT DETAIL

SIGNAL STANDARD IDENTIFICATION TAG DETAIL

STD. NO. XX	SIGNAL STANDARD NO.	STD. NO. 02
SRXXX, MP XXX.XX	STATE ROUTE AND MILE POST NO.	SR97, MP 069.09
MANUFACTURER APPROVED DWG. XXXXXX	APPROVED DRAWING NO.	MANUFACTURER APPROVED DWG. AB12345
FAB. X/XX/XXXX	FABRICATION DATE	FAB. 6/14/2002

EXAMPLE

LUMINAIRE MAST ARM X Y Z (ft^3)	
MAST ARM LENGTH	X Y Z (ft^3)
6'	19.8
8'	26.4
10'	33.0
12'	39.6
14'	46.2
16'	52.8

SIGN: 8

48"

18" | 1 CAR PER GREEN THIS LANE | 4C 4C

R10-1402

SEE SHEET SD1 FOR SIGN 7 DETAIL

TAG NOTES:

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

LEGEND

a.	VEHICLE DISPLAY	f.	LUMINAIRE
b.	SIGN	g.	NOT USED
c.	NOT USED	h.	TERMINAL CABINET
d.	NOT USED	i.	NOT USED
e.	NOT USED	j.	HANDHOLE

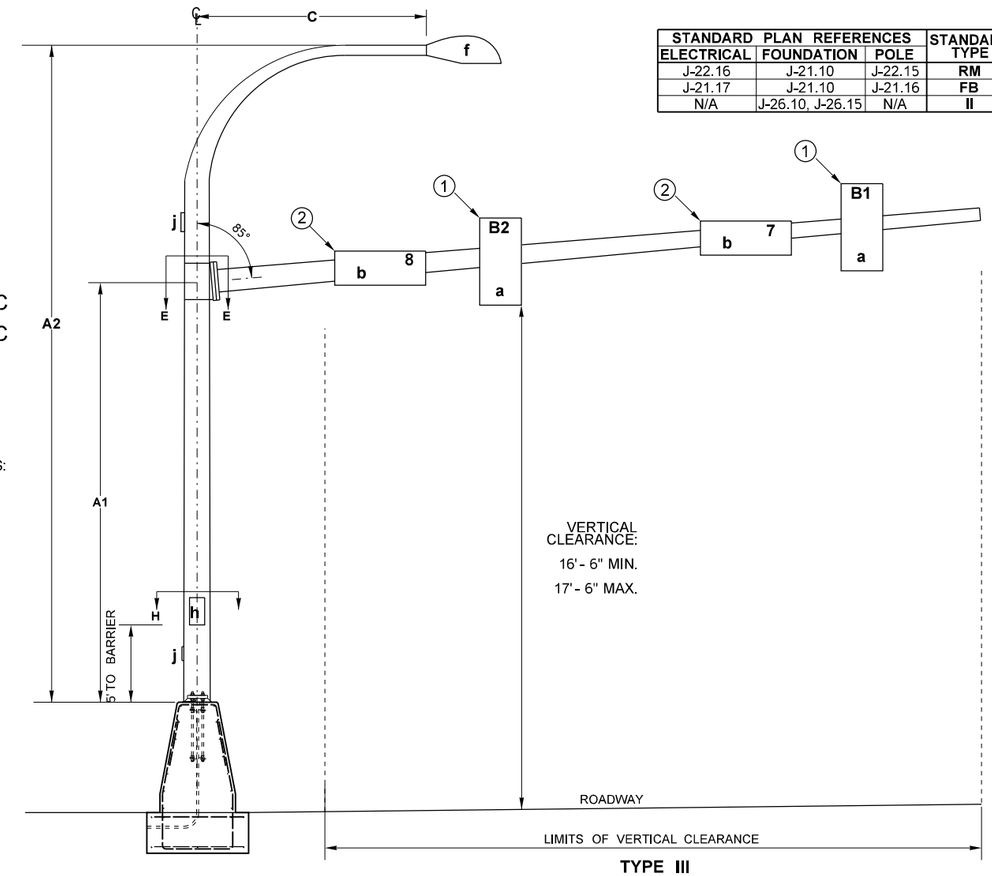
SIGNAL DISPLAY NOTES

1. ALL VEHICLE HEADS SHALL BE ALUMINUM.
2. ALL LENSES SHALL BE 12" LED TYPE
3. ALL VISORS SHALL BE 12" ALUMINUM TUNNEL
4. INSTALL BACKPLATES UNLESS OTHERWISE SPECIFIED IN THE PLANS. DO NOT INSTALL RETROREFLECTIVE TAPE ON BACKPLATES.
5. RAMP METER SIGNAL HEADS SHALL BE COVERED UNTIL APPROVED BY THE ENGINEER FOR OPERATION

MOUNTING NOTES:

1. FIELD INSTALLED. SEE **STANDARD PLAN G-30.10** FOR MOUNTING DETAILS.
2. PROVIDED OFFSET IS FOR INFORMATIONAL USE ONLY. ACTUAL OFFSETS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR
3. SIGNAL HEADS SHALL BE INSTALLED USING A TYPE N MOUNT IN THE CENTER OF THE LANE WHILE IN RAMP METER CONFIGURATION

STANDARD PLAN REFERENCES			STANDARD TYPE
ELECTRICAL	FOUNDATION	POLE	
J-22.16	J-21.10	J-22.15	RM
J-21.17	J-21.10	J-21.16	FB
N/A	J-26.10, J-26.15	N/A	II



TYPE III
SIGNAL STANDARD NO. 6 SHOWN

SIGNAL STANDARD DETAIL CHART

STD. No.	SR No.	SR MILE POST	FIELD LOCATION: LINE/STATION	OFFSET	LT.	RT.	ELEV.*	P.O.A.	POLE TYPE	MOUNTING HEIGHT (FT): A1	A2	SIGNAL MAST ARM DATA: OFFSETS (FT) (Z) (POLE ℄ TO ATTACHMENT POINT): B3	B2	B1	9	8	7	WINDLOAD AREAS (FT^2) (X)(Y): B3	B2	B1	9	8	7	LUMINAIRE ARM (FT): C	CALCULATED POLE XYZ (FT^3)**	POLE ATTACHMENT POINT ANGLES (DEGREES): E1	E2	FOUNDATION DESIGN XYZ (FT^3)	SOIL BEARING PRESSURE (PSF)	FOUNDATION DEPTH (FT) ALTERNATE 1: 3' RD.	3' SQ.	4' RD.	ALTERNATE 2: 3' RD.	4' RD.	REMARKS
6	I-205	29.03	G 17+01.661	41'	X		284'	0	SD	18	40'		10	22		6	18		9.2	9.2		6.0	6.0	16	491	0									USE 25' MAST ARM SEE SHEET TB1 FOR FOUNDATION DETAILS
7	I-205	28.12	J 18+23.87	38'		X	293'	0	SD	15		33	45	56	29	41	52	9.2	9.2	9.2	6.0	6.0	6.0		1965	0	90	2600	2500	15		8	20	9	USE 60' MAST ARM FOR E1 USE 10' MAST ARM FOR E2
8	I-5	1.69	K 7+12.47	18'		X	188'	0	SD	13			18	30		14	26		9.2	9.2		6.0	6.0		682	0	90	900	1000	16		13	20	15	USE 30' MAST ARM FOR E1 USE 10' MAST ARM FOR E2

* ELEVATION IS TO TOP OF ROADWAY. FIELD VERIFY ELEVATION PRIOR TO ORDERING SIGNAL STANDARDS.

** CALCULATED POLE XYZ (FT) IS THE SUM OF THE TOTAL XYZ (FT) FOR THE SIGNAL ARM AND THE XYZ (FT) FOR THE LUMINAIRE ARM (IF PRESENT).

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD2.dgn
TIME	9:28:11 AM
DATE	11/1/2022
PLOTTED BY	fuestm
DESIGNED BY	M. FUEST
ENTERED BY	K. WACHTER
CHECKED BY	S. MERCER
PROJ. ENGR.	M. HARWOOD
REGIONAL ADM.	C. FRANCIS

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. STP-2051(287)

JOB NUMBER 22X332 | CRRSAA(UL)-0051(318)

CONTRACT NO. | LOCATION NO.

MONICA O. HARWOOD DIAZ — STATE OF WASHINGTON — 39399 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

P.E. STAMP BOX DATE

Washington State Department of Transportation

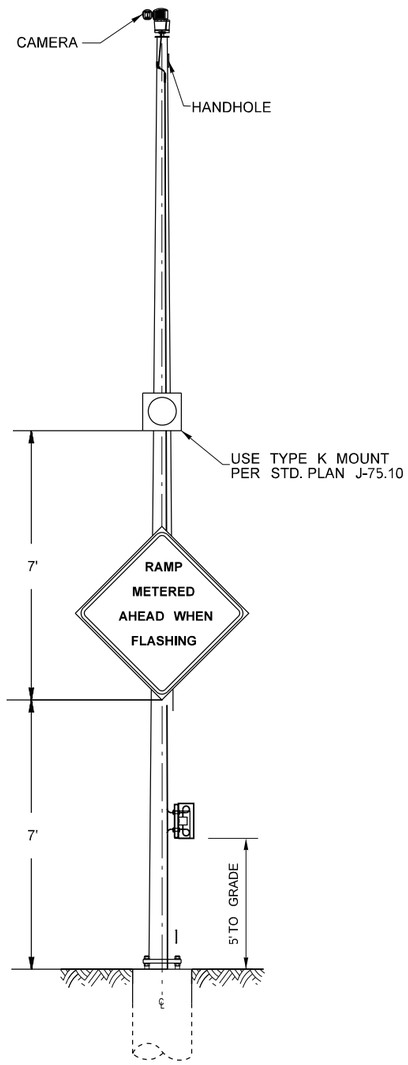
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 8

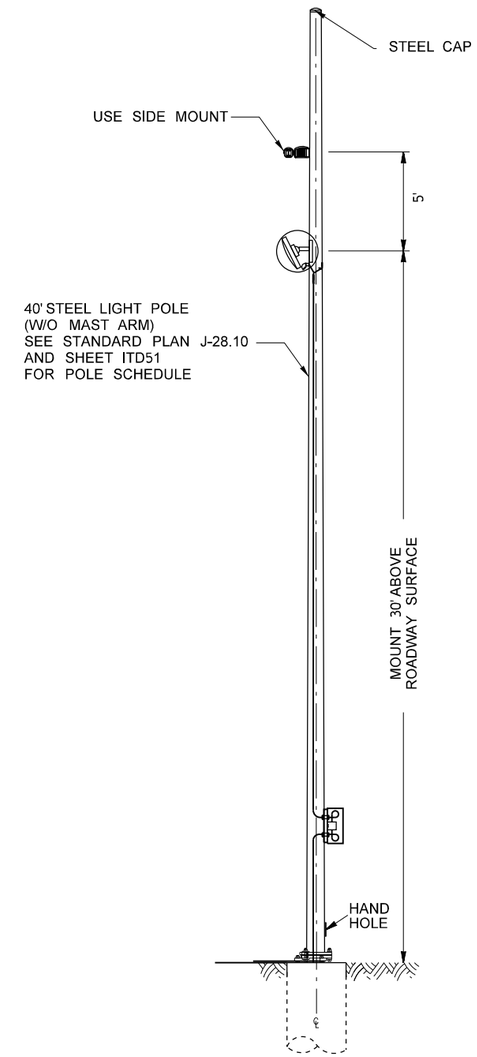
PLAN REF NO ITD49

SHEET 108 OF 164 SHEETS



NOT TO SCALE

AWS ON CAMERA POLE DETAILS



CCTV SIDE MOUNT DETAIL

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD2.dgn						
TIME	9:28:13 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
DATE	11/1/2022						
PLOTTED BY	fuestm						
DESIGNED BY	M. FUEST				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
ENTERED BY	M. FUEST						
CHECKED BY	S. MERCER				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA JO HARWOOD DUNCAN · STATE OF WASHINGTON · 39399 · REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
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Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

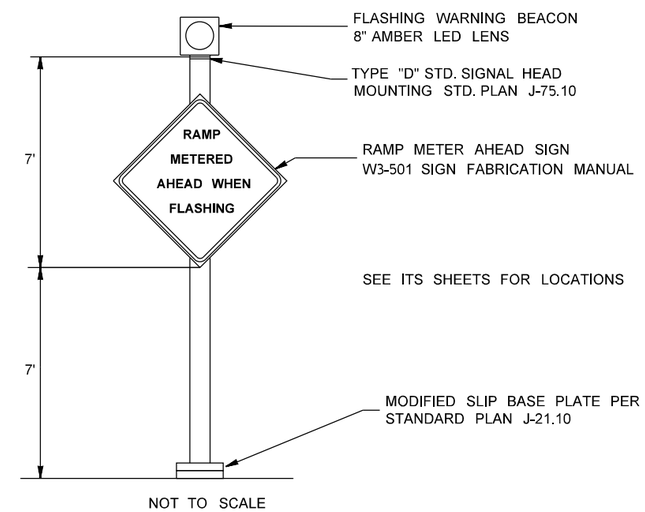
Plot 10

PLAN REF NO
ITD50

SHEET 109 OF 164 SHEETS

ITS POLE SCHEDULE

POLE NO.	LOCATION		HEIGHT/TYPE	BASE TYPE	NOTES
	LINE/OFFSET	PLAN REF. NO.			
1	A/RT	ITS3	FB	SLIP	FLASHING BEACON AWS1, SEE SHEET ITD51
2	A/LT	ITS3	FB	SLIP	FLASHING BEACON AWS2, SEE SHEET ITD51
3	A/RT	ITS3	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42. FOUNDATION DEPTH SHALL BE 12'
4	A/LT	ITS3	40'/LUM.	FIXED	WAVETRONIX & CCTV, SEE SHEET ITD42 & ITD50
5	A/RT	ITS4A2	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42
6	I-205	ITS2	40'/CAM.	FIXED	WAVETRONIX & CCTV, SEE SHEET ITD42-43
7	B/RT	ITS6	FB	FIXED	FLASHING BEACON AWS1, SEE SHEET ITD51
8	B/RT	ITS6A1	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42. BOTTOM OF FOUNDATION SHALL NOT PENETRATE BELOW 6' OF GROUND SURFACE
NOT USED					
10	B/LT	ITS7	40'/CAM.	FIXED	WAVETRONIX & CCTV, SEE SHEET ITD42-43
11	B/RT	ITS8A2	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42
12	C/RT	ITS9	FB	SLIP	FLASHING BEACON AWS1, SEE SHEET ITD51
13	C/RT	ITS9A1	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42
14	C/RT	ITS9	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42
15	C/RT	ITS11A2	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42
16	C/LT	ITS11	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42. BOTTOM OF FOUNDATION SHALL NOT PENETRATE BELOW 7' OF GROUND SURFACE
17	I-205	ITS12	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42. BOTTOM OF FOUNDATION SHALL NOT PENETRATE BELOW 10' OF GROUND SURFACE
18	I-205	ITS5	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42.
19	D/RT	ITS13	FB	SLIP	FLASHING BEACON AWS1, SEE SHEET ITD51
20	D/RT	ITS13	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42
21	D/LT	ITS13	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42
22	E/RT	ITS14	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42
23	E/RT	ITS14	FB	SLIP	FLASHING BEACON AWS2, SEE SHEET ITD51
24	F/LT	ITS14	FB	SLIP	FLASHING BEACON AWS1, SEE SHEET ITD51
25	F/LT	ITS14	FB	SLIP	FLASHING BEACON AWS2, SEE SHEET ITD51
26	F/RT	ITS15	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD51
27	F/LT	ITS15	40'/CAM.	FIXED	FLASHING BEACON AWS3 & CCTV, SEE SHEET ITD43 & ITD50
28	F/RT	ITS16A1	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42
NOT USED					
30	F/LT	ITS16	50'/CAM.	FIXED	WAVETRONIX & CCTV, SEE SHEET ITD42-43
31	F/LT	ITS16	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42
32	F/LT	ITS17	FB	FIXED	FLASHING BEACON AWS4, SEE SHEET ITD51
33	F/LT	ITS17	40'/CAM.	FIXED	CCTV POLE, SEE SHEET ITD43
34	F/RT	ITS19A2	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD51
35	I-205	ITS19	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42
NOT USED					
37	G/LT	ITS21	40'/LUM.	FIXED	FLASHING BEACON AWS1 & WAVETRONIX DETECTION, SEE SHEET ITD42 & ITD50
38	G/RT	ITS23A1	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42
39	G/LT	ITS24	40'/CAM.	FIXED	CCTV POLE, SEE SHEET ITD43
40	I-205	ITS22	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42
NOT USED					
42	H/RT	ITS26A1	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42
NOT USED					
44	J/RT	ITS28	40'/LUM.	FIXED	FLASHING BEACON AWS2 &WAVETRONIX DETECTION, SEE SHEET ITD42 & ITD50
45	J/LT	ITS26A1	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42
46	J/LT	ITS27	40'/CAM.	FIXED	WAVETRONIX & CCTV, SEE SHEET ITD42-43
47	J/RT	ITS27	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42
48	J/RT	ITS27A2	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42
49	K/LT	ITS29	FB	SLIP	FLASHING BEACON AWS1, SEE SHEET ITD51
50	K/LT	ITS29	FB	SLIP	FLASHING BEACON AWS2, SEE SHEET ITD51
51	K/LT	ITS29	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42
52	K/RT	ITS29	40'/LUM.	FIXED	WAVETRONIX DETECTION, SEE SHEET ITD42. FOUNDATION DEPTH SHALL BE 12'



ADVANCE WARNING SIGN ASSEMBLY DETAIL

NOTES:

1. SEE WSDOT STANDARD PLAN J-21.16 AND J-21.17.FOR ADDITIONAL INSTALLATION DETAILS.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD2.dgn				
TIME	9:28:15 AM				
DATE	11/1/2022				
PLOTTED BY	fuestm				
DESIGNED BY	M. FUEST				
ENTERED BY	M. FUEST				
CHECKED BY	S. MERCER				
PROJ. ENGR.	M. HARWOOD				
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY	

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. STP-2051(287)
JOB NUMBER 22X332 | CRRSAA(UL)-0051(318)
CONTRACT NO. | LOCATION NO.

MONICA O. HARWOOD DIAZ — STATE OF WASHINGTON — 39399 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

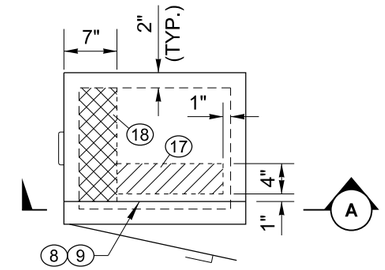
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

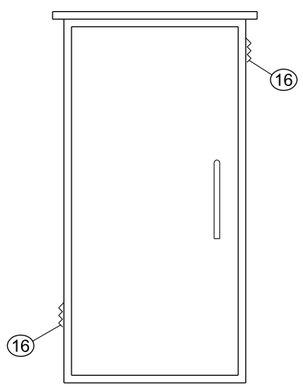
Plot 11
PLAN REF NO ITD51
SHEET 110 OF 164 SHEETS



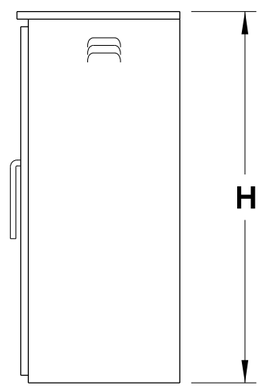
PLAN VIEW

TRANSFORMER SIZE (KVA)	CABINET DIMENSIONS			
	H	W	D	X*
UP TO 3	18"	18"	12"	9"
3.1 TO 12.5	48"	24"	20"	24"
12.6 TO 35.0	60"	32"	30"	24"

* X DIMENSION IS A MINIMUM

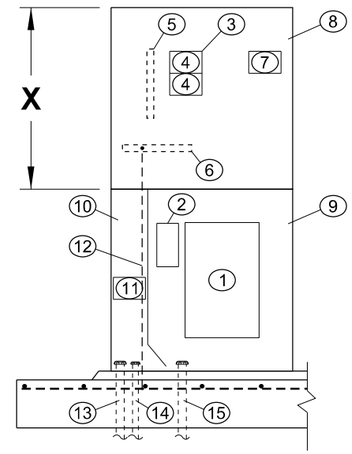


ELEVATION VIEW



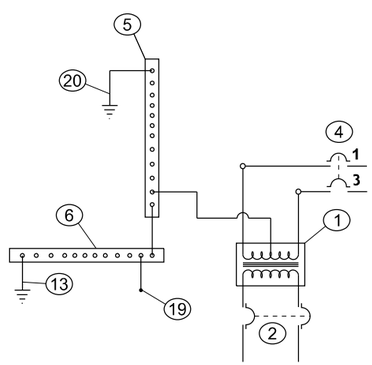
SIDE VIEW

TRANSFORMER CABINET HOUSING



SECTION A

TRANSFORMER CABINET DETAILS



240V INPUT - 480V OUTPUT

WIRING SCHEMATIC

NOTES

1. Cabinet construction shall meet the requirements of **Standard Specification 9-29.25**. Aluminum cabinets shall have mill finish.
2. Busswork shall be rated for 100 Amps minimum.
3. Input voltage shall be 240VAC and output voltage shall be 480VAC. Transformer size shall be as shown in the Contract Plans. The transformer shall be specifically rated for step up operation.
4. There shall be one and only one double pole secondary branch breaker. The secondary breaker panel may include additional breaker positions, but the dead front shall not provide spaces for additional breakers. See Contract Plans for secondary branch breaker information.
5. Cabinet anchor bolt pattern is determined by the cabinet manufacturer. All anchor bolts shall either be hot dip galvanized or stainless steel cinch bolts. Bolts shall extend a minimum of 1.5 inches above the concrete pad.
6. Engraved phenolic nameplate shall be red with white text, and shall read "SUPPLIED FROM SERVICE CABINET S?? ????". See Contract Plans for service cabinet S?? number. Nameplate shall be attached with screws or rivets.
7. High Voltage Wireway engraved phenolic plate shall be red with white text. This tag shall read "HIGH VOLTAGE WIREWAY - 480V OUTPUT".
8. Cabinet shall be oriented such that it opens away from traffic.
9. External cabinet label (stencil) shall be red instead of black.

KEY

1. TRANSFORMER
2. MAIN INPUT BREAKER ~ DPST
3. SECONDARY BREAKER PANEL - TWO POSITION MINIMUM
4. DPST SECONDARY BREAKER (USES TWO SLOTS)
5. ISOLATED NEUTRAL BUSS ~ 12 LUG TINNED COPPER
6. GROUND BUSS ~ 12 LUG TINNED COPPER
7. ENGRAVED PHENOLIC LABEL PLATE (SEE NOTE 6)
8. UPPER SECTION HINGED DEAD FRONT ~ ONLY ONE SECONDARY BREAKER ACCESSIBLE WHEN CLOSED
9. LOWER SECTION HINGED DEAD FRONT ~ ONLY MAIN BREAKER ACCESSIBLE WHEN CLOSED
10. ENCLOSED HIGH VOLTAGE WIREWAY
11. HIGH VOLTAGE WIREWAY ENGRAVED PHENOLIC LABEL PLATE (SEE NOTE 7)
12. SUPPLEMENTAL GROUND ~ CONNECT GROUND BUSS TO PAD FOUNDATION REBAR
13. HIGH VOLTAGE POWER CONDUIT TO LOAD
14. GROUND ELECTRODE CONDUIT ~ SEE **STANDARD PLAN J-60.05, SHEET 3** (SUPPLEMENTAL GROUND)
15. LOW VOLTAGE INPUT POWER CONDUIT
16. SCREENED VENT LOUVERS ~ 2 REQUIRED (1 EACH SIDE)
17. LOW VOLTAGE INPUT CONDUIT RESERVE AREA
18. HIGH VOLTAGE AND GROUND CONDUIT RESERVE AREA
19. CABINET BONDING JUMPER AND LUG
20. GROUND ELECTRODE ~ SEE **STANDARD PLAN J-60.05, SHEET 3**

240V-480V STEP UP TRANSFORMER DETAIL

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD2.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
TIME	9:28:17 AM						
DATE	11/1/2022						
PLOTTED BY	fuestm				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST						
ENTERED BY	M. FUEST						
CHECKED BY	S. MERCER				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA JO HARWOOD DUNCAN · STATE OF WASHINGTON · 39399 · REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

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Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 12
PLAN REF NO ITD52
SHEET 111 OF 164 SHEETS

EXIST. 7.5 KVA TRANSFORMER BREAKER SCHEDULE				*I-205 37.08*
				480 - 240/120V
CIRCUIT	MAIN BREAKER	BRANCH BREAKER	VOLTAGE	DESCRIPTION
	80	*-*	*240V*	*MAIN*
A		*60A*	*120V*	*ITS CABINET - 205vc03708*
B		*20A*	*120V*	**ITS CABINET - 205es03693**
C			*120V*	
D			*120V*	
E		*20A*	*120V*	*GFCI*

7.5 KVA TRANSFORMER BREAKER SCHEDULE				205xf03321
				480 - 240/120V
CIRCUIT	MAIN BREAKER	BRANCH BREAKER	VOLTAGE	DESCRIPTION
	80	-	240V	MAIN
A		25A	120V	RM CABINET - 205rm03311
B		20A	120V	SPARE
C		20A	120V	GFCI

EXIST. TYPE E - BREAKER SCHEDULE				*SD531B*
				480/240V
CIRCUIT	MAIN BREAKER	BRANCH BREAKER	VOLTAGE	DESCRIPTION
	80	-	480V	MAIN
A		*30A*	*480V*	*EXIST. ILLUM. CIRCUIT*
B		*20A*	*480V*	*EXIST. ILLUM. CIRCUIT*
C		*30A*	*480V*	*EXIST. ILLUM. CIRCUIT*
D		*40A*	*480V*	*EXIST. ILLUM. CIRCUIT*
E		*20A*	*480V*	*205xf03290*
F		**20A**	**480V**	**205xf03321**

TYPE E - BREAKER SCHEDULE				SD564
				480/240V
CIRCUIT	MAIN BREAKER	BRANCH BREAKER	VOLTAGE	DESCRIPTION
	150	-	480V	MAIN
9A		30A	480V	EXIST. ILLUM
9B		50A	480V	EXIST. ILLUM
9C		50A	480V	EXIST. ILLUM
9D		30A	480V	EXIST. ILLUM
9E		15A	480V	INTERNAL XFMR
9F		20A	480V	205xf03038
9E-1		15A	120V	PHOTOCELL
9E-2		15A	120V	HEATSTRIP
9E-3		20A	120V	GFCI

TYPE B MOD SERVICE BREAKER SCHEDULE				
				240/120V
CIRCUIT	MAIN BREAKER	BRANCH BREAKER	VOLTAGE	DESCRIPTION
	200	-	240V	MAIN
A		15A	240V	VMS SIGN-500vm00442
B		30A	120V	CABINET-500vm00442
C		55A	240V	500xf00432
D		20A	120V	SPARE
E		20A	120V	GFCI

10 KVA STEP UP TRANSFORMER BREAKER SCHEDULE				500xf00432
				240 - 480V
CIRCUIT	MAIN BREAKER	BRANCH BREAKER	VOLTAGE	DESCRIPTION
	55	-	240V	MAIN INPUT
A		25A	480V	OUTPUT - 205xf03068

10 KVA TRANSFORMER BREAKER SCHEDULE				205xf03068
				480 - 240/120V
CIRCUIT	MAIN BREAKER	BRANCH BREAKER	VOLTAGE	DESCRIPTION
	110	-	240V	MAIN
A		25A	120V	RM CABINET - 205rm03068
B		25A	120V	RM CABINET - 205rm03070
C		20A	120V	SPARE
D		20A	120V	GFCI

EXIST. TYPE E - BREAKER SCHEDULE				*SD3697*
				480/240V
CIRCUIT	MAIN BREAKER	BRANCH BREAKER	VOLTAGE	DESCRIPTION
	200	-	480V	MAIN
2A		*15A*	*480V*	*ILLUMINATION A*
2B		*15A*	*480V*	*ILLUMINATION B*
2C		*15A*	*480V*	*VMS SIGN XFMR*
2D		*15A*	*480V*	**205xf02932**
2E		*15A*	*480V*	*SPARE*
2F		*15A*	*480V*	*INTERNAL XFMR*
2G		*20A*	*480V*	*CCTV CABINET XFMR*
2F-1		*20A*	*120V*	*GFCI*
2F-2		*15A*	*120V*	*HEATSTRIP*
2F-3		*15A*	*120V*	*PHOTOCELL*
2F-4		*15A*	*120V*	*SPARE*

5 KVA TRANSFORMER BREAKER SCHEDULE				205xf02932
				480 - 240/120V
CIRCUIT	MAIN BREAKER	BRANCH BREAKER	VOLTAGE	DESCRIPTION
	55	-	240V	MAIN
A		25A	120V	RM CABINET - 205rm02903
B		20A	120V	SPARE
C		20A	120V	GFCI

TYPE E - BREAKER SCHEDULE				SD557
				480/240V
CIRCUIT	MAIN BREAKER	BRANCH BREAKER	VOLTAGE	DESCRIPTION
	175	-	480V	MAIN
1A		50A	480V	EXIST. ILLUM
1B		40A	480V	EXIST. ILLUM
1C		50A	480V	EXIST. ILLUM
1D		30A	480V	EXIST. ILLUM
1E		30A	480V	EXIST. ILLUM
1F		20A	480V	INTERNAL XFMR
1G		20A	480V	EXIST. XFMR/CCTV
1H		20A	480V	205xf02818
1F-1		20A	120V	PHOTOCELL
1F-2		15A	120V	GFCI
1F-3		20A	120V	EXIST. SIGNAL 205ts02830
1F-4		15A	120V	HEATSTRIP

7.5 KVA TRANSFORMER BREAKER SCHEDULE				205xf02818
				480 - 240/120V
CIRCUIT	MAIN BREAKER	BRANCH BREAKER	VOLTAGE	DESCRIPTION
	80	-	240V	MAIN
A		25A	120V	RM CABINET - 205rm02812
B		20A	120V	SPARE
C		20A	120V	GFCI

TYPE B MOD SERVICE BREAKER SCHEDULE				
				240/120V
CIRCUIT	MAIN BREAKER	BRANCH BREAKER	VOLTAGE	DESCRIPTION
	200	-	240V	MAIN
A		25A	120V	RM CABINET - 005rm00169
B		25A	120V	EXIST. SIGNAL 005ts00158
C		20A	120V	SPARE
D		15A	120V	SPARE
E		20A	120V	GFCI

BREAKER SCHEDULES

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITD2.dgn
TIME	9:28:20 AM
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PROJ. ENGR.	M. HARWOOD
REGIONAL ADM.	C. FRANCIS

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. STP-2051(287)

JOB NUMBER 22X332 | CRRSAA(UL)-0051(318)

CONTRACT NO. | LOCATION NO.

MONICA JO HARWOOD DILLON — STATE OF WASHINGTON — 39399 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 — DATE — P.E. STAMP BOX

DATE — P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS DETAILS

Plot 13

PLAN REF NO ITD53

SHEET 112 OF 164 SHEETS

SIGN INSTALLATION SPECIFICATIONS

SIGN NO.	SIGN CODE	SIGN DESCRIPTION	PLAN REF. NO.	SIGN SIZE X	SIGN SIZE Y	SHEETING TYPE	LETTER SIZE OR CODE	POST MATERIAL	POST SIZE	POST LENGTH H1	POST LENGTH H2	POST LENGTH H3	POST LENGTH H4	CLEARANCE V	CLEARANCE W	REMARKS
1	W3-501	RAMP METERED AHEAD WHEN FLASHING	CH2	48"	48"	III or IV	STANDARD	SIG POLE	N/A	N/A						MOUNT SIGN ON FB POLE. SEE ITD51
2	W3-501	RAMP METERED AHEAD WHEN FLASHING	CH2	48"	48"	III or IV	STANDARD	SIG POLE	N/A	N/A						MOUNT SIGN ON FB POLE. SEE ITD51
3	W4-2R	PAVEMENT WIDTH TRANSITION RIGHT	CH2	48"	48"	III or IV	STANDARD	LUM POLE	N/A	N/A						
4	R3-0000SP	SHOULDER USE PERMITTED WHEN METERED	CH2	36"	48"	III or IV	SEE REMARKS	STEEL	2.5" SQ.	12'						SEE SHEET SD1 FOR SIGN DETAIL
5	R10-0002SP	FORM 2 LANES WHEN METERED	CH2	30"	36"	III or IV	SEE REMARKS	STEEL	2.5" SQ.	11'						SEE SHEET SD1 FOR SIGN DETAIL
6	R10-0002SP	FORM 2 LANES WHEN METERED	CH2	30"	36"	III or IV	SEE REMARKS	STEEL	2.5" SQ.	11'						SEE SHEET SD1 FOR SIGN DETAIL
7	R10-6L	STOP HERE ON RED	CH2	24"	36"	III or IV	STANDARD	STEEL	2.5" SQ.	11'						
8	R10-6R	STOP HERE ON RED	CH2	24"	36"	III or IV	STANDARD	STEEL	2.5" SQ.	11'						
9	R10-1402SP	1 CAR PER GREEN SHOULDER LANE	CH2	48"	18"	IV	SEE REMARKS	MAST ARM	N/A	N/A						SEE SHEET SD1 FOR SIGN DETAIL
10	R10-1402	1 CAR PER GREEN THIS LANE	CH2	48"	18"	IV	STANDARD	MAST ARM	N/A	N/A						
11	W3-501	RAMP METERED AHEAD WHEN FLASHING	CH3	48"	48"	III or IV	STANDARD	SIG POLE	N/A	N/A						MOUNT SIGN ON FB POLE. SEE ITD51
12	R3-0000SP	SHOULDER USE PERMITTED WHEN METERED	CH3	36"	48"	III or IV	SEE REMARKS	STEEL	2.5" SQ.	13'						SEE SHEET SD1 FOR SIGN DETAIL
13	W2-602MOD	CAUTION DO NOT DRIVE BESIDE TRUCKS	CH3	30"	30"	III or IV	SEE REMARKS	STEEL	2.5" SQ.	11'						SEE SHEET SD1 FOR SIGN DETAIL
14	R10-0002SP	FORM 2 LANES WHEN METERED	CH3	30"	36"	III or IV	SEE REMARKS	STEEL	2.5" SQ.	12'						SEE SHEET SD1 FOR SIGN DETAIL
15	R10-0002SP	FORM 2 LANES WHEN METERED	CH3	30"	36"	III or IV	SEE REMARKS	STEEL	2.5" SQ.	11'						SEE SHEET SD1 FOR SIGN DETAIL
16	R10-6L	STOP HERE ON RED	CH4	24"	36"	III or IV	STANDARD	STEEL	2.5" SQ.	12'						
17	R10-1402SP	1 CAR PER GREEN SHOULDER LANE	CH4	48"	18"	IV	SEE REMARKS	MAST ARM	N/A	N/A						SEE SHEET SD1 FOR SIGN DETAIL
18	R10-1402	1 CAR PER GREEN THIS LANE	CH4	48"	18"	IV	STANDARD	MAST ARM	N/A	N/A						
19	W3-501	RAMP METERED AHEAD WHEN FLASHING	CH5	48"	48"	III or IV	STANDARD	SIG POLE	N/A	N/A						MOUNT SIGN ON FB POLE. SEE ITD51
20	R3-0000SP	SHOULDER USE PERMITTED WHEN METERED	CH5	36"	48"	III or IV	SEE REMARKS	STEEL	2.5" SQ.	12'						SEE SHEET SD1 FOR SIGN DETAIL
21	R10-0002SP	FORM 2 LANES WHEN METERED	CH5	30"	36"	III or IV	SEE REMARKS	STEEL	2.5" SQ.	12'						SEE SHEET SD1 FOR SIGN DETAIL
22	R10-0002SP	FORM 2 LANES WHEN METERED	CH5	30"	36"	III or IV	SEE REMARKS	STEEL	2.5" SQ.	11'						SEE SHEET SD1 FOR SIGN DETAIL
23	R10-6L	STOP HERE ON RED	CH6	24"	36"	III or IV	STANDARD	STEEL	2.5" SQ.	12'						
24	R10-1402SP	1 CAR PER GREEN SHOULDER LANE	CH6	48"	18"	IV	SEE REMARKS	MAST ARM	N/A	N/A						SEE SHEET SD1 FOR SIGN DETAIL
25	R10-1402	1 CAR PER GREEN THIS LANE	CH6	48"	18"	IV	STANDARD	MAST ARM	N/A	N/A						
26	W3-501	RAMP METERED AHEAD WHEN FLASHING	CH7	48"	48"	III or IV	STANDARD	SIG POLE	N/A	N/A						MOUNT SIGN ON FB POLE. SEE ITD51
27	W3-501	RAMP METERED AHEAD WHEN FLASHING	CH7	48"	48"	III or IV	STANDARD	SIG POLE	N/A	N/A						MOUNT SIGN ON FB POLE. SEE ITD51
28	R3-0000SP	SHOULDER USE PERMITTED WHEN METERED	CH7	36"	48"	III or IV	SEE REMARKS	STEEL	2.5" SQ.	13'						SEE SHEET SD1 FOR SIGN DETAIL
29	R10-0002SP	FORM 2 LANES WHEN METERED	CH7	30"	36"	III or IV	SEE REMARKS	SADDLE BARRIER MT	N/A	8'						SEE SHEET SD1 FOR SIGN/MOUNT DETAIL
30	R10-6L	STOP HERE ON RED	CH8	24"	36"	III or IV	STANDARD	STEEL	2.5" SQ.	11'						

CONSTRUCTION NOTES:

1. POST LENGTHS SHOWN ARE APPROXIMATE. FINAL VALUES SHALL BE DETERMINED IN THE FIELD PRIOR TO FABRICATION.
2. FOR STRUCTURE AND MOUNTING DETAILS SEE STANDARD PLAN SHEET SERIES "G".
3. FOR CODE REFERENCES AND STANDARD DETAILS SEE WASHINGTON STATE SIGN FABRICATION MANUAL.
4. ALL SADDLE BARRIER MOUNTS SHALL BE 2.5" STEEL POST. VERIFY BARRIER WIDTH PRIOR TO SADDLE MOUNT FABRICATION. SEE SD1-SD3.
5. PRECAST BASE FOUNDATIONS SHALL NOT BE USED
6. ALL SIGNS 36" AND WIDER SHALL BE BRACED IN ACCORDANCE WITH STD. PLAN G-50.10
7. STATIONING IS INFORMATIONAL ONLY. LOCATIONS SHALL BE FIELD VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION
8. REFER TO STANDARD PLAN G-20.10 FOR V AND W VALUES
9. INSTALL NEW MOUNTING HARDWARE INCLUDING Z-BAR AND VERTICAL BRACES
10. ALL SINGLE POST PSST SIGN INSTALLS SHALL INCLUDE TYPE ST-4 SIGN SUPPORTS PER STD. PLAN G-24.50
11. INSTALL 4" STD. SIGN SUPPORT PER STD. PLAN G-26.10. CONTRACTOR SHALL USE NON-DESTRUCTIVE MEANS TO LOCATE AND AVOID CONDUIT AND REINFORCING STEEL PRIOR TO ANCHOR PLATE FABRICATION.

SIGN INSTALLATION SPECIFICATIONS

SIGN NO.	SIGN CODE	SIGN DESCRIPTION	PLAN REF. NO.	SIGN SIZE X	SIGN SIZE Y	SHEETING TYPE	LETTER SIZE OR CODE	POST MATERIAL	POST SIZE	POST LENGTH H1	POST LENGTH H2	POST LENGTH H3	POST LENGTH H4	CLEARANCE V	CLEARANCE W	REMARKS
31	R10-6R	STOP HERE ON RED	CH8	24"	36"	III or IV	STANDARD	SADDLE BARRIER MT	N/A	8'						SEE SHEET SD1 FOR SIGN/MOUNT DETAIL
32	R10-1402SP	1 CAR PER GREEN SHOULDER LANE	CH8	48"	18"	IV	SEE REMARKS	MAST ARM	N/A	N/A						SEE SHEET SD1 FOR SIGN DETAIL
33	R10-1402	1 CAR PER GREEN THIS LANE	CH8	48"	18"	IV	STANDARD	MAST ARM	N/A	N/A						
34	W3-501	RAMP METERED AHEAD WHEN FLASHING	CH9	48"	48"	III or IV	STANDARD	SIG POLE	N/A	N/A						MOUNT SIGN ON FB POLE. SEE ITD51
35	W3-501	RAMP METERED AHEAD WHEN FLASHING	CH9	48"	48"	III or IV	STANDARD	SIG POLE	N/A	N/A						MOUNT SIGN ON FB POLE. SEE ITD51
36	W3-501	RAMP METERED AHEAD WHEN FLASHING	CH9	48"	48"	III or IV	STANDARD	LUM POLE	N/A	N/A						MOUNT SIGN ON NEW LUM. POLE. SEE SHEET ITD50
37	E4-501MOD	I-205 NORTH I-205 SOUTH SEATTLE SALEM 1/4 MILE EXIT ONLY	CH9	252"	108"	IV & XI	SEE REMARKS	BR MOUNT	OVERHEAD	N/A						FOR YELLOW BACKGROUND SHEETING USE TYPE XI FLUORESCENT SHEETING. SEE SHEET SD3 FOR SIGN DETAIL. SEE NOTE 9
38	R3-0000SP	SHOULDER USE PERMITTED WHEN METERED	CH10	36"	48"	III or IV	SEE REMARKS	STEEL	2.5" SQ.	12'						SEE SHEET SD1 FOR SIGN DETAIL
39	W3-501	RAMP METERED AHEAD WHEN FLASHING	CH10	48"	48"	III or IV	STANDARD	SIG POLE	N/A	N/A						MOUNT SIGN ON FB POLE. ITD51
40	R10-0002SP	FORM 2 LANES WHEN METERED	CH10	30"	36"	III or IV	SEE REMARKS	STEEL	2.5" SQ.	11'						SEE SHEET SD1 FOR SIGN DETAIL
41	R10-0002SP	FORM 2 LANES WHEN METERED	CH10	30"	36"	III or IV	SEE REMARKS	STEEL	2.5" SQ.	11'						SEE SHEET SD1 FOR SIGN DETAIL
42	R10-6L	STOP HERE ON RED	CH8	24"	36"	III or IV	STANDARD	STEEL	2.5" SQ.	12'						
43	R10-6R	STOP HERE ON RED	CH8	24"	36"	III or IV	STANDARD	STEEL	2.5" SQ.	11'						
44	R10-1402	1 CAR PER GREEN THIS LANE	CH8	48"	18"	IV	STANDARD	MAST ARM	N/A	N/A						
45	R10-1402SP	1 CAR PER GREEN SHOULDER LANE	CH8	48"	18"	IV	SEE REMARKS	MAST ARM	N/A	N/A						SEE SHEET SD1 FOR SIGN DETAIL
46	W3-501	RAMP METERED AHEAD WHEN FLASHING	CH11	48"	48"	III or IV	STANDARD	SIG POLE	N/A	N/A						MOUNT SIGN ON NEW LUM. POLE. SEE SHEET ITD50
47	R3-0000SP	SHOULDER USE PERMITTED WHEN METERED	CH11	36"	48"	III or IV	SEE REMARKS	STRUCT MT	N/A	N/A						SEE NOTE 11
48	R10-0002SP	FORM 2 LANES WHEN METERED	CH11	30"	36"	III or IV	SEE REMARKS	LUM POLE	N/A	N/A						
49	R10-0002SP	FORM 2 LANES WHEN METERED	CH11	30"	36"	III or IV	SEE REMARKS	SADDLE BARRIER MT	N/A	8'						SEE SHEET SD2-SD3 FOR MOUNT DETAIL
50	R10-6R	STOP HERE ON RED	CH11	24"	36"	III or IV	SEE REMARKS	SADDLE BARRIER MT	N/A	8'						SEE SHEET SD2-SD3 FOR MOUNT DETAIL
51	R10-1402SP	1 CAR PER GREEN SHOULDER LANE	CH11	48"	18"	IV	SEE REMARKS	MAST ARM	N/A	N/A						SEE SHEET SD1 FOR SIGN DETAIL
52	R10-1402	1 CAR PER GREEN THIS LANE	CH11	48"	18"	IV	STANDARD	MAST ARM	N/A	N/A						
53	W3-501	RAMP METERED AHEAD WHEN FLASHING	CH12	48"	48"	III or IV	STANDARD	LUM POLE	N/A	N/A						MOUNT SIGN ON EXIST. LUM. POLE. SEE SHEET ITD50
54	R1-5L	STOP HERE FOR PEDESTRIANS	CH12	36"	36"	III or IV	STANDARD	STEEL	2.5" SQ.	11'						USE EXISTING GROUND ANCHOR
55	W3-501	RAMP METERED AHEAD WHEN FLASHING	CH12	48"	48"	III or IV	STANDARD	SIG POLE	N/A	N/A						MOUNT SIGN ON FB POLE. SEE ITD51
56	R3-0000SP	SHOULDER USE PERMITTED WHEN METERED	CH13	36"	48"	III or IV	SEE REMARKS	STEEL	2.5" SQ.	13'						SEE SHEET SD1 FOR SIGN DETAIL
57	R10-0002SP	FORM 2 LANES WHEN METERED	CH13	30"	36"	III or IV	SEE REMARKS	STEEL	2.5" SQ.	12'						SEE SHEET SD1 FOR SIGN DETAIL

CONSTRUCTION NOTES:

1. POST LENGTHS SHOWN ARE APPROXIMATE. FINAL VALUES SHALL BE DETERMINED IN THE FIELD PRIOR TO FABRICATION.
2. FOR STRUCTURE AND MOUNTING DETAILS SEE STANDARD PLAN SHEET SERIES "G".
3. FOR CODE REFERENCES AND STANDARD DETAILS SEE WASHINGTON STATE SIGN FABRICATION MANUAL.
4. ALL SADDLE BARRIER MOUNTS SHALL BE 2.5" STEEL POST. VERIFY BARRIER WIDTH PRIOR TO SADDLE MOUNT FABRICATION. SEE SD1-SD3.
5. PRECAST BASE FOUNDATIONS SHALL NOT BE USED
6. ALL SIGNS 36" AND WIDER SHALL BE BRACED IN ACCORDANCE WITH STD. PLAN G-50.10
7. STATIONING IS INFORMATIONAL ONLY. LOCATIONS SHALL BE FIELD VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION
8. REFER TO STANDARD PLAN G-20.10 FOR V AND W VALUES
9. INSTALL NEW MOUNTING HARDWARE INCLUDING Z-BAR AND VERTICAL BRACES
10. ALL SINGLE POST PSST SIGN INSTALLS SHALL INCLUDE TYPE ST-4 SIGN SUPPORTS PER STD. PLAN G-24.50
11. INSTALL 4" STD. SIGN SUPPORT PER STD. PLAN G-26.10. CONTRACTOR SHALL USE NON-DESTRUCTIVE MEANS TO LOCATE AND AVOID CONDUIT AND REINFORCING STEEL PRIOR TO ANCHOR PLATE FABRICATION.

SIGN INSTALLATION SPECIFICATIONS

SIGN NO.	SIGN CODE	SIGN DESCRIPTION	PLAN REF. NO.	SIGN SIZE X	SIGN SIZE Y	SHEETING TYPE	LETTER SIZE OR CODE	POST MATERIAL	POST SIZE	POST LENGTH H1	POST LENGTH H2	POST LENGTH H3	POST LENGTH H4	CLEARANCE V	CLEARANCE W	REMARKS
58	R10-6L	STOP HERE ON RED	CH13	24"	36"	III or IV	STANDARD	STEEL	2.5" SQ.	11'						
59	R10-6R	STOP HERE ON RED	CH13	24"	36"	III or IV	STANDARD	SADDLE BARRIER MT	N/A	8'						SEE SHEET SD1 FOR MOUNT DETAIL
60	R10-1402SP	1 CAR PER GREEN SHOULDER LANE	CH13	48"	18"	IV	SEE REMARKS	MAST ARM	N/A	N/A						SEE SHEET SD1 FOR SIGN DETAIL
61	R10-1402	1 CAR PER GREEN THIS LANE	CH13	48"	18"	IV	STANDARD	MAST ARM	N/A	N/A						
62	R10-1402	1 CAR PER GREEN THIS LANE	CH13	48"	18"	IV	STANDARD	MAST ARM	N/A	N/A						
63	W3-501	RAMP METERED AHEAD WHEN FLASHING	CH14	48"	48"	III or IV	STANDARD	SIG POLE	N/A	N/A						MOUNT SIGN ON FB POLE. SEE ITD51
64	W3-501	RAMP METERED AHEAD WHEN FLASHING	CH14	48"	48"	III or IV	STANDARD	SIG POLE	N/A	N/A						MOUNT SIGN ON FB POLE. SEE ITD51
65	R10-0002SP	FORM 2 LANES WHEN METERED	CH14	30"	36"	III or IV	SEE REMARKS	LUM POLE	N/A	N/A						MOUNT ABOVE EXISTING R5-1004 SIGN. SEE SHEET SD1 FOR SIGN DETAIL
66	R10-0002SP	FORM 2 LANES WHEN METERED	CH14	30"	36"	III or IV	SEE REMARKS	STEEL	2.5" SQ.	10'						SEE SHEET SD1 FOR SIGN DETAIL
67	R10-6L	STOP HERE ON RED	CH14	24"	36"	III or IV	STANDARD	STEEL	2.5" SQ.	8'						
68	R10-1402SP	1 CAR PER GREEN SHOULDER LANE	CH14	48"	18"	IV	SEE REMARKS	MAST ARM	N/A	N/A						SEE SHEET SD1 FOR SIGN DETAIL
69	R10-1402	1 CAR PER GREEN THIS LANE	CH14	48"	18"	IV	STANDARD	MAST ARM	N/A	N/A						

CONSTRUCTION NOTES:

1. POST LENGTHS SHOWN ARE APPROXIMATE. FINAL VALUES SHALL BE DETERMINED IN THE FIELD PRIOR TO FABRICATION.
2. FOR STRUCTURE AND MOUNTING DETAILS SEE STANDARD PLAN SHEET SERIES "G".
3. FOR CODE REFERENCES AND STANDARD DETAILS SEE WASHINGTON STATE SIGN FABRICATION MANUAL.
4. ALL SADDLE BARRIER MOUNTS SHALL BE 2.5" STEEL POST. VERIFY BARRIER WIDTH PRIOR TO SADDLE MOUNT FABRICATION. SEE SD1-SD3.
5. PRECAST BASE FOUNDATIONS SHALL NOT BE USED
6. ALL SIGNS 36" AND WIDER SHALL BE BRACED IN ACCORDANCE WITH STD. PLAN G-50.10
7. STATIONING IS INFORMATIONAL ONLY. LOCATIONS SHALL BE FIELD VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION
8. REFER TO STANDARD PLAN G-20.10 FOR V AND W VALUES
9. INSTALL NEW MOUNTING HARDWARE INCLUDING Z-BAR AND VERTICAL BRACES
10. ALL SINGLE POST PSST SIGN INSTALLS SHALL INCLUDE TYPE ST-4 SIGN SUPPORTS PER STD. PLAN G-24.50
11. INSTALL 4" STD. SIGN SUPPORT PER STD. PLAN G-26.10. CONTRACTOR SHALL USE NON-DESTRUCTIVE MEANS TO LOCATE AND AVOID CONDUIT AND REINFORCING STEEL PRIOR TO ANCHOR PLATE FABRICATION.

SIGN RELOCATION SPECIFICATIONS

SIGN NO.	SIGN CODE	SIGN DESCRIPTION	PLAN REF. NO.	SIGN SIZE X	SIGN SIZE Y	POST MATERIAL	POST SIZE	POST LENGTH H1	POST LENGTH H2	POST LENGTH H3	POST LENGTH H4	CLEARANCE V	CLEARANCE W	REMARKS
1	W1-2R	CURVE RIGHT	CH10	48"	48"	STEEL	2.5" SQ.							
2	W13-1	50 MPH	CH10	24"	24"									ON SAME POST AS RELOCATE NO. 1
3	W4-1R	MERGING FROM RIGHT	CH11	48"	48"	SIG POLE	N/A							REMOVE EXIST. SADDLE BARRIER MOUNT
4	D10-2	MILE 29	CH11	12"	36"									INSTALL ON SAME POLE AS RELOCATE NO. 3
5	E12-201	FREEWAY ENTRANCE	CH12	24"	36"	STEEL	2.5" SQ.							DISPOSE OF EXISTING POST. INSTALL IN EXISTING GROUND ANCHOR
6	R5-1001	PEDESTRIANS HITCHHIKERS PROHIBITED	CH12	18"	12"									INSTALL ON SAME POST AS RELOCATION NO. 5
7	W4-3R	ADDED LANE SYMBOL RIGHT	CH13	48"	48"	SADDLE BARRIER MT	N/A							RELOCATE WITH EXISTING SADDLE BARRIER MOUNT
8	R8-3A	NO PARKING SYMBOL	CH13	12"	12"									ON SAME MOUNT AS RELOCATION NO.7
9	R7-201A	TOW AWAY ZONE SYMBOL	CH13	12"	6"									ON SAME MOUNT AS RELOCATION NO.7
10	E12-201	FREEWAY ENTRANCE	CH14	24"	36"	SIG POLE	N/A							DISPOSE OF EXISTING POST
11	R5-1004	PEDESTRIANS HITCHHIKERS BICYCLES AND MOTORIZED FOOT SCOOTERS PROHIBITED	CH14	24"	24"									INSTALL ON SAME POLE AS RELOCATION NO. 10
12	E12-201	FREEWAY ENTRANCE	CH14	24"	36"	EX CANT								MOUNT BELOW EXISTING W3-2A SIGN

CONSTRUCTION NOTES:

POST LENGTHS SHOWN ARE APPROXIMATE. FINAL VALUES SHALL BE DETERMINED IN THE FIELD PRIOR TO FABRICATION.
FOR STRUCTURE AND MOUNTING DETAILS SEE STANDARD PLAN SHEET SERIES "G".
FOR CODE REFERENCES AND STANDARD DETAILS SEE WASHINGTON STATE SIGN FABRICATION MANUAL.

SIGN REMOVAL SPECIFICATIONS

SIGN NO.	SIGN CODE	SIGN DESCRIPTION	PLAN REF. NO.	SIGN SIZE X	SIGN SIZE Y	POST MATERIAL	POST SIZE	# OF POSTS	REMARKS
1	W4-2R	PAVEMENT WIDTH TRANSITION RIGHT	CH2	48"	48"	STEEL	2.5" SQ.	1	
2	E4-501	I-205 NORTH I-205 SOUTH SEATTLE SALEM NEXT RIGHT EXIT ONLY	CH9	240"	96"	BR MOUNT	OVERHEAD		REMOVE SIGN, SIGN LIGHTS, VERTICAL BRACING FOR THE SIGN LIGHTS, AND CONDUIT AND CONDUCTORS TO THE NEAREST JUNCTION BOX. PLUG ALL HOLES WITH GALVANIZED THREADED PLUGS TO STRUCTURE MOUNTED JUNCTION BOX.
3	W11-2	ADVANCE PEDESTRIAN CROSSING	CH12	36"	36"	STEEL	2.5" SQ.	1	
4	W16-9P	AHEAD	CH12	36"	15"				ON SAME POST AS REMOVAL NO. 3
5	W11-2	ADVANCE PEDESTRIAN CROSSING	CH12	48"	48"	LUM POLE	N/A		
6	W11-2	ADVANCE PEDESTRIAN CROSSING	CH12	36"	36"	STEEL	2.5" SQ.	1	MAINTAIN GROUND ANCHOR
7	W16-7PL	DIAGONAL DOWNWARD ARROW	CH12	30"	12"				ON SAME POST AS REMOVAL NO. 6
8	W11-2	ADVANCE PEDESTRIAN CROSSING	CH12	36"	36"	STEEL	2.5" SQ.	1	
9	W16-7PR	DIAGONAL DOWNWARD ARROW	CH12	30"	12"				ON SAME POST AS REMOVAL NO. 8
10	E5-1	EXIT ARROW	CH12	48"	48"	STEEL	2.5" SQ.	1	MAINTAIN GROUND ANCHOR
11	W13-1	25 MPH	CH12	24"	24"				ON SAME POST AS REMOVAL NO. 9
12	M3-1B	NORTH	CH14	24"	12"	STEEL	2.5" SQ.	1	
13	M1-1	INTERSTATE 5 SHIELD	CH14	24"	24"				ON SAME POST AS REMOVAL NO. 10
14	M6-1B	DIRECTIONAL ARROW	CH14	21"	15"				ON SAME POST AS REMOVAL NO. 10
15	R5-1004	PEDESTRIANS HITCHHIKERS BICYCLES AND MOTORIZED FOOT SCOOTERS PROHIBITED	CH14	24"	24"				ON SAME POST AS REMOVAL NO. 10

CONSTRUCTION NOTES:

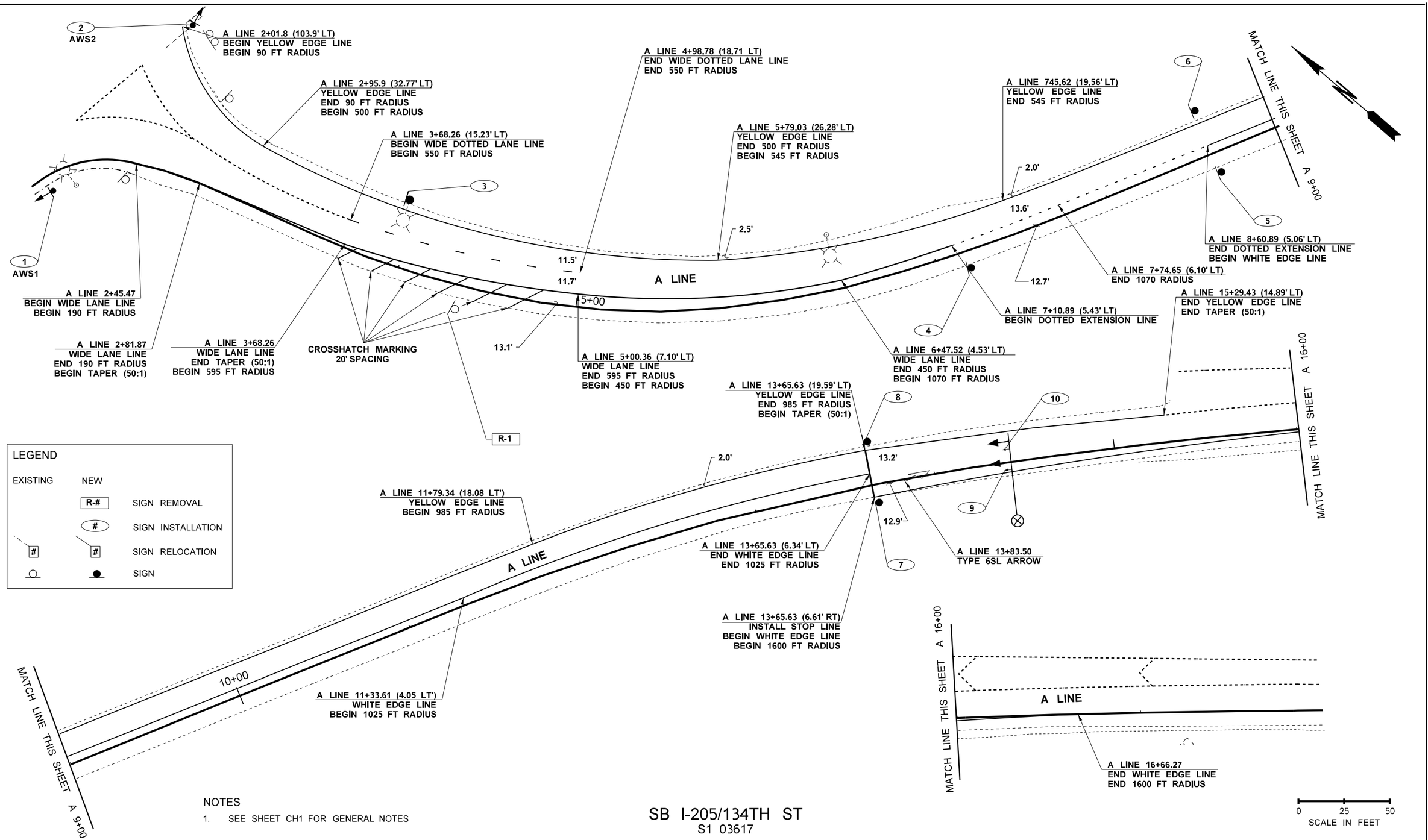
1. POST LENGTHS SHOWN ARE APPROXIMATE. FINAL VALUES SHALL BE DETERMINED IN THE FIELD PRIOR TO FABRICATION.
2. FOR STRUCTURE AND MOUNTING DETAILS SEE STANDARD PLAN SHEET SERIES "G".
3. FOR CODE REFERENCES AND STANDARD DETAILS SEE WASHINGTON STATE SIGN FABRICATION MANUAL.
4. THE CONTRACTOR SHALL REMOVE CONDUIT AND CONDUCTORS TO THE NEAREST JUNCTION BOX.
   PLUG ALL HOLES WITH GALVANIZED THREADED PLUGS TO STRUCTURE MOUNTED JUNCTION BOX

STRIPING REMOVAL						
SHEET	LINE	BEG. STA.	END STA.	LENGTH (LF)	MATERIAL	LINE TYPE
CH2	A	2+01	15+29	1330	PLASTIC	YELLOW EDGE
CH2	A	2+81	16+66	1390	PLASTIC	WHITE EDGE
CH2	A	3+68	4+98	130	PLASTIC	WIDE DOTTED LANE LINE
CH3	B	5+32	14+91	960	PLASTIC	YELLOW EDGE
CH3-4	B	2+00	20+83	1890	PLASTIC	WHITE EDGE
CH5-6	C	8+00	21+21	1330	PLASTIC	YELLOW EDGE
CH5-6	C	8+00	24+67	1670	PLASTIC	WHITE EDGE
CH7	D	15+71	18+50	280	PLASTIC	YELLOW EDGE
CH7	D	16+19	18+50	240	PLASTIC	WIDE LINE
CH7-8	E	1+00	10+25	930	PLASTIC	YELLOW EDGE
CH7-8	E	1+00	10+25	930	PLASTIC	WHITE EDGE
CH10 & 8	F	20+87	35+84	1500	PLASTIC	YELLOW EDGE
CH10 & 8	F	20+00	37+00	1700	PLASTIC	WHITE EDGE
CH10 & 8	F	20+55	21+09	60	PLASTIC	LANE LINE
CH10 & 9	F	20+55	21+09	60	PLASTIC	WIDE DOTTED LANE LINE
CH11	G	6+80	16+81	1000	PLASTIC	YELLOW EDGE
CH11	G	6+77	19+20	1250	PLASTIC	WHITE EDGE
CH13	J	8+93	13+57	470	PLASTIC	YELLOW EDGE
CH13	J	13+61	17+99	440	PLASTIC	YELLOW EDGE
CH13	J	8+84	21+48	1270	PLASTIC	WHITE EDGE
CH13	J	15+70	17+48	180	PLASTIC	WIDE DOTTED LANE LINE
CH14	K	1+39	6+15	480	PLASTIC	YELLOW EDGE
CH14	K	1+00	7+98	700	PLASTIC	WHITE EDGE
CH14	K	6+15	7+92	180	PLASTIC	WIDE LINE

RAISED PAVEMENT MARKER REMOVAL[1]			
LINE	STA	STA	APPROX. RPM
A	2+01	15+29	17
B	5+32	14+91	12
C	8+00	21+21	17
D	15+71	18+50	4
E	1+00	10+25	12
F	20+87	35+84	19
G	6+80	16+81	13
J	8+93	13+57	6
J	13+61	17+99	6
K	1+39	6+15	6

GENERAL NOTES

1. EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED WHERE STRIPING IS REMOVED
2. INSTALL TYPE 2Y RAISED PAVEMENT MARKERS AT 20' SPACING FOR LEFT EDGE AND PER STD. PLAN M-20.30
3. SOME ELECTRICAL FEATURES NOT SHOWN FOR CLARITY
4. ALL PAVEMENT MARKINGS SHALL BE TYPE A THERMOPLASTIC UNLESS OTHERWISE SPECIFIED
5. SEE STD. PLAN M-20.10 FOR PAVEMENT MARKING DETAILS
6. SEE STD. PLAN M-24.60 FOR CROSSHATCH AND STOP LINE DETAILS
7. SEET STD. PLAN M-2.21 FOR CHEVRON LAYOUT DETAILS
8. SEE STD. PLAN M-24.60 FOR TRAFFIC ARROW DETAILS
9. SURFACE MOUNTED GUIDE POSTS SHALL BE INSTALLED AT 4 FT INTERVALS
10. EXISTING EDGE LINES ARE DENOTED BY ROADWAY ALIGNMENT
11. STOP LINE SHALL BE LOCATED RELATIVE TO THE LOCATION OF THE SIGNAL POLE AND SIGNAL DISPLAYS. IF SIGNAL POLE IS RELOCATED IN THE FIELD, STOP LINE LOCATION SHALL BE ACCOMODATED TO MAINTAIN DISTANCE.



LEGEND

EXISTING	NEW	
	R-#	SIGN REMOVAL
	#	SIGN INSTALLATION
#	#	SIGN RELOCATION
○	●	SIGN

NOTES

1. SEE SHEET CH1 FOR GENERAL NOTES

SB I-205/134TH ST
S1 03617

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SN.dgn						
TIME	9:33:06 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
DATE	11/1/2022						CRRSAA(UL)-0051(318)
PLOTTED BY	fuestm				JOB NUMBER 22X332		
DESIGNED BY	M. FUEST				CONTRACT NO.		LOCATION NO.
ENTERED BY	M. FUEST						
CHECKED BY	D. BURKEY						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA D. HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

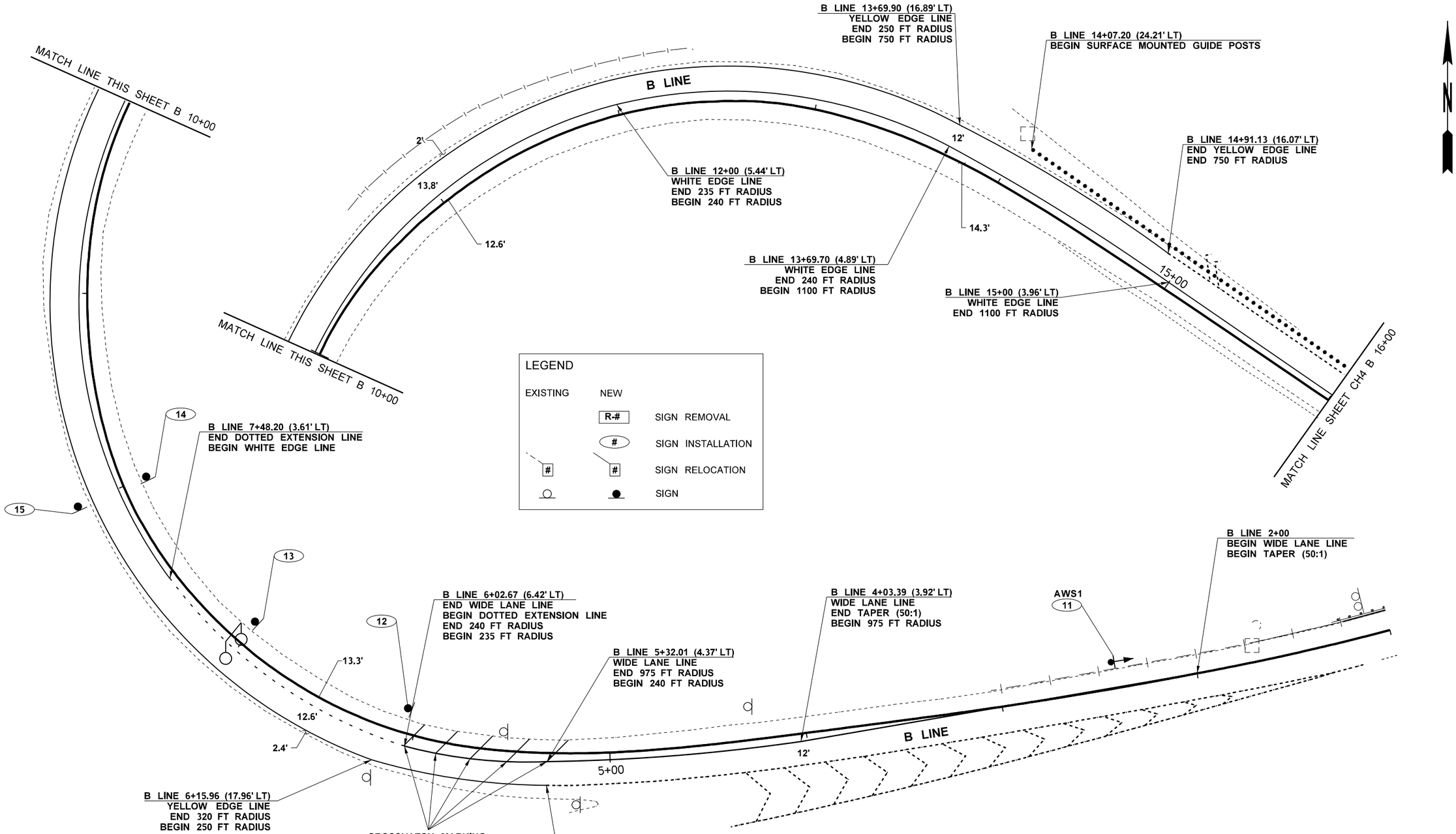
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SIGNING/CHANNELIZATION PLAN

Plot 1
PLAN REF NO
CH2
SHEET 119 OF 164 SHEETS



NOTES

1. SEE SHEET CH1 FOR GENERAL NOTES

SB I-205/ WB PADDEN PKWY
S5 03287

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SN.dgn			
TIME	9:33:07 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	D. BURKEY			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

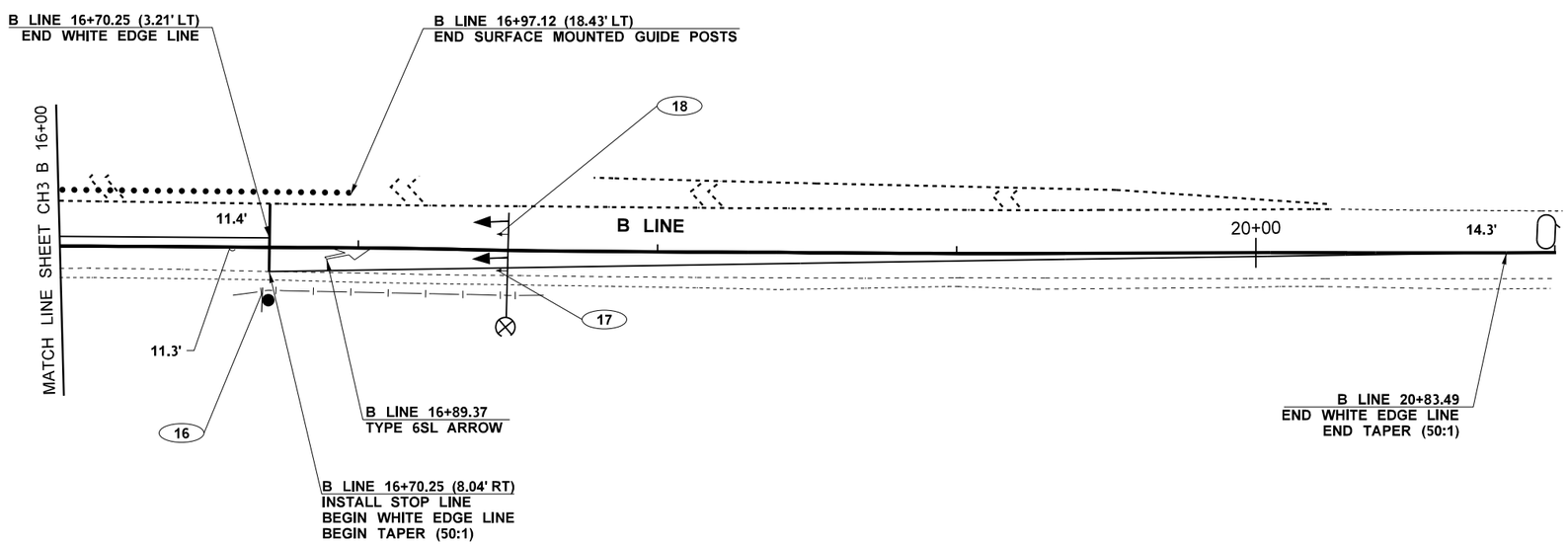
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SIGNING/CHANNELIZATION PLAN

Plot 2
PLAN REF NO
CH3
SHEET
120
OF
164
SHEETS

LEGEND

EXISTING	NEW	
	R-#	SIGN REMOVAL
	#	SIGN INSTALLATION
#	#	SIGN RELOCATION
○	●	SIGN



NOTES

1. SEE SHEET CH1 FOR GENERAL NOTES

SB I-205/ WB PADDEN PKWY
S5 03287

0 25 50
SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SN.dgn					
TIME	9:33:08 AM					
DATE	11/1/2022					
PLOTTED BY	fuestm					
DESIGNED BY	M. FUEST					
ENTERED BY	M. FUEST					
CHECKED BY	D. BURKEY					
PROJ. ENGR.	M. HARWOOD					
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY		

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA D. HARWOOD-DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

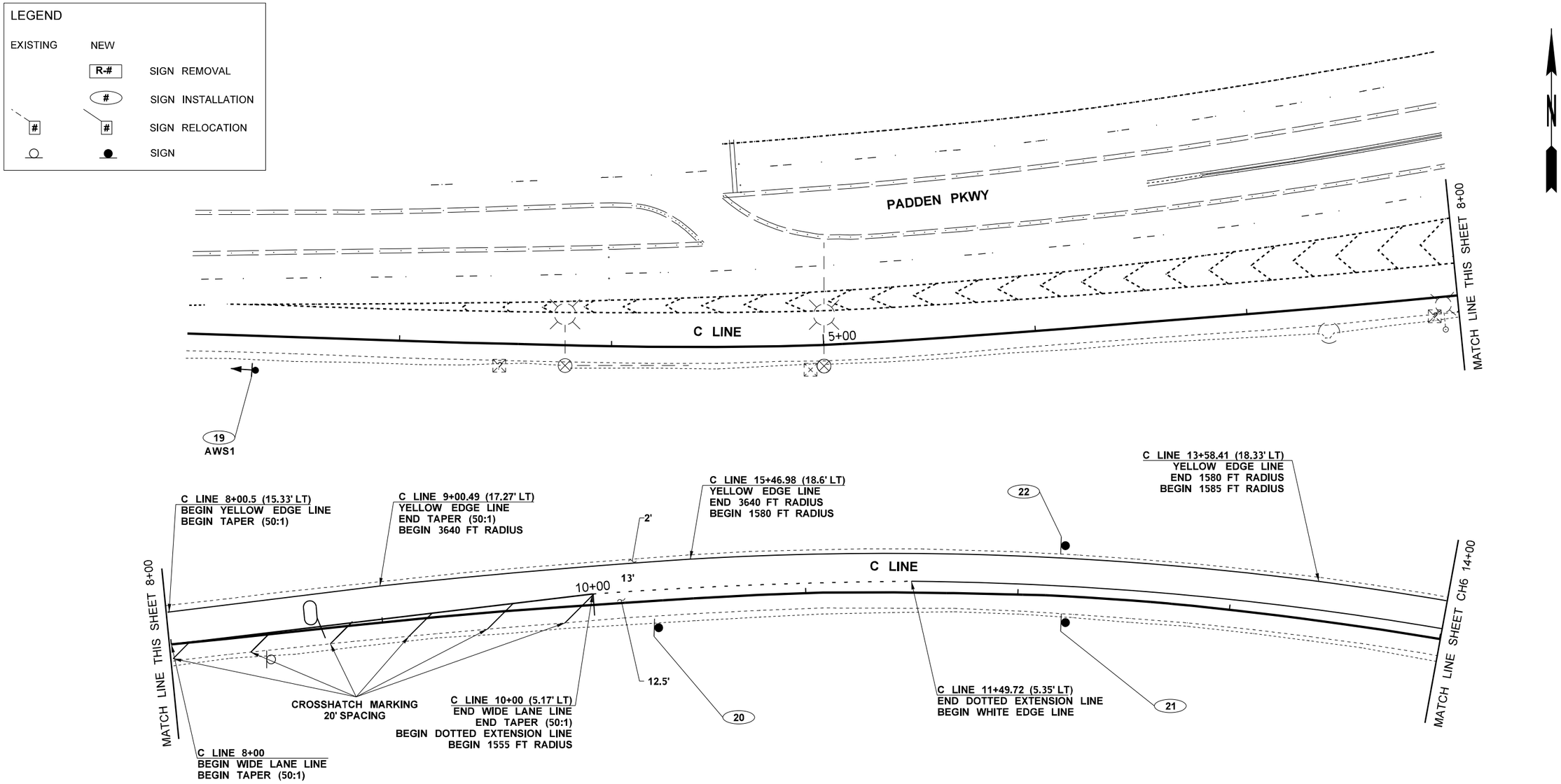
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SIGNING/CHANNELIZATION PLAN

Plot 3
PLAN REF NO
CH4
SHEET 121 OF 164 SHEETS



NOTES

1. SEE SHEET CH1 FOR GENERAL NOTES

SB I-205/EB PADDEN PKWY
S1 03258

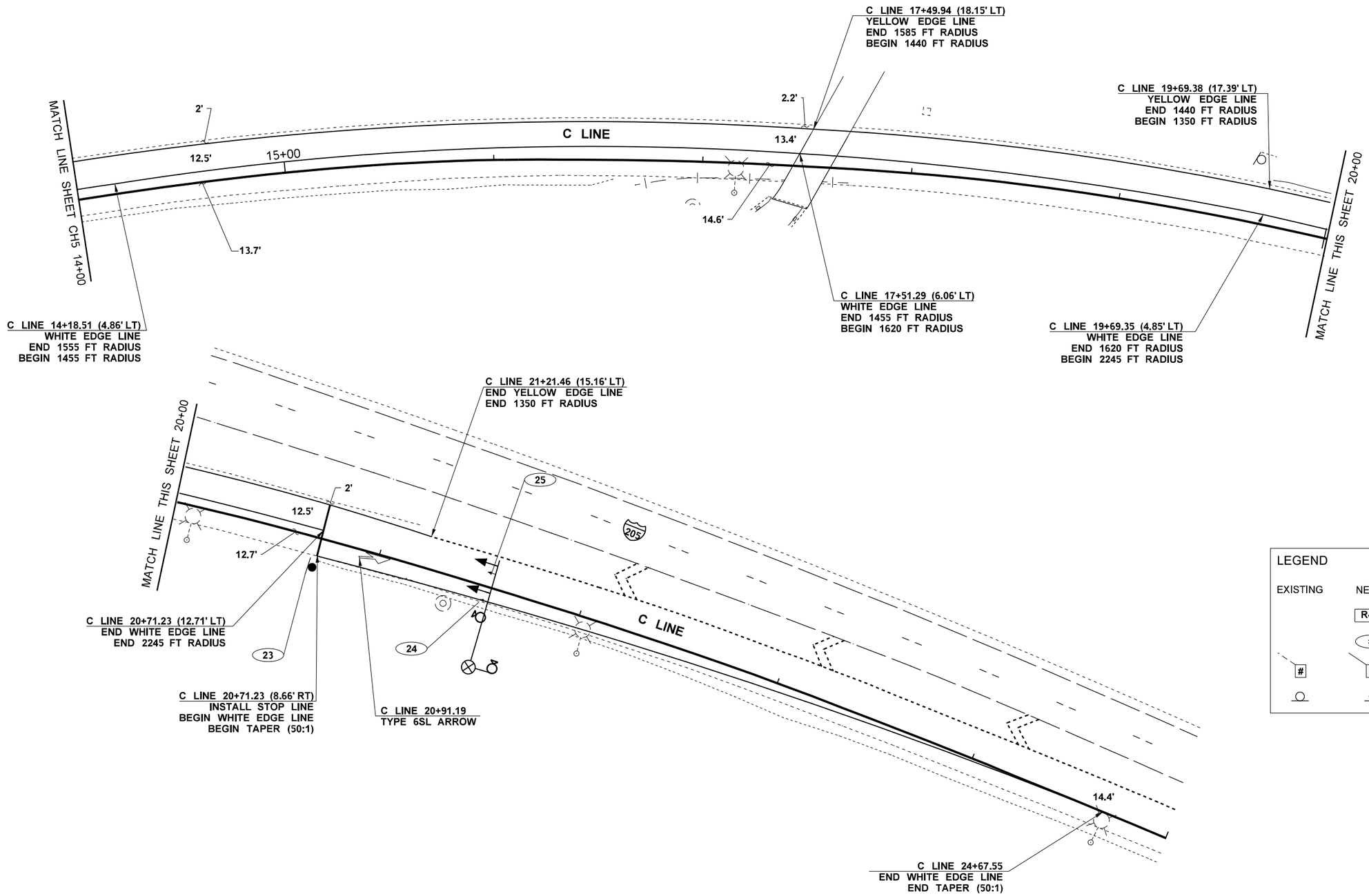
FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SN.dgn				REGION NO.	STATE	FED.AID PROJ.NO.		Washington State Department of Transportation	I-5/NB FOURTH PLAIN ON-RAMP I-205/SB 134TH ST TO MILL PLAIN RAMP METERS	Plot 4
TIME	9:33:10 AM				10	WASH	STP-2051(287)				PLAN REF NO CH5
DATE	11/1/2022				JOB NUMBER		CRRSAA(UL)-0051(318)				
PLOTTED BY	fuestm				22X332						SHEET 122 OF 164 SHEETS
DESIGNED BY	M. FUEST				CONTRACT NO.		LOCATION NO.				
ENTERED BY	M. FUEST										
CHECKED BY	D. BURKEY										
PROJ. ENGR.	M. HARWOOD										
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY							

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

SIGNING/CHANNELIZATION PLAN



NOTES

1. SEE SHEET CH1 FOR GENERAL NOTES

SB I-205/PADDEN PKWY
S1 03258

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SN.dgn			
TIME	9:33:19 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	D. BURKEY			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

SEE SHEET CT1
DATE
P.E. STAMP BOX

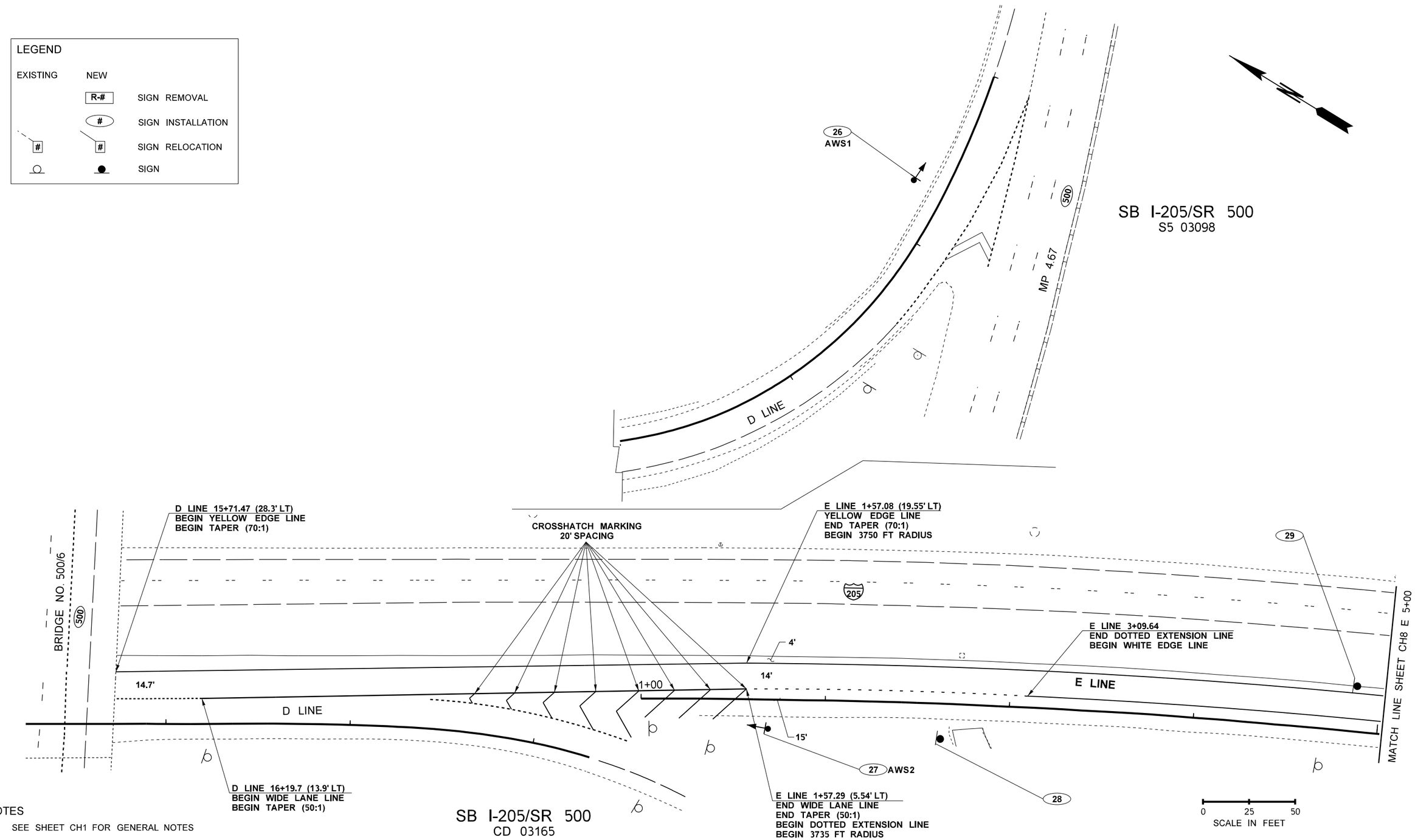
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SIGNING/CHANNELIZATION PLAN

Plot 14
PLAN REF NO
CH6
SHEET 123 OF 164 SHEETS



NOTES

1. SEE SHEET CH1 FOR GENERAL NOTES

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DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	D. BURKEY			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA R. HARWOOD DAVIS, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

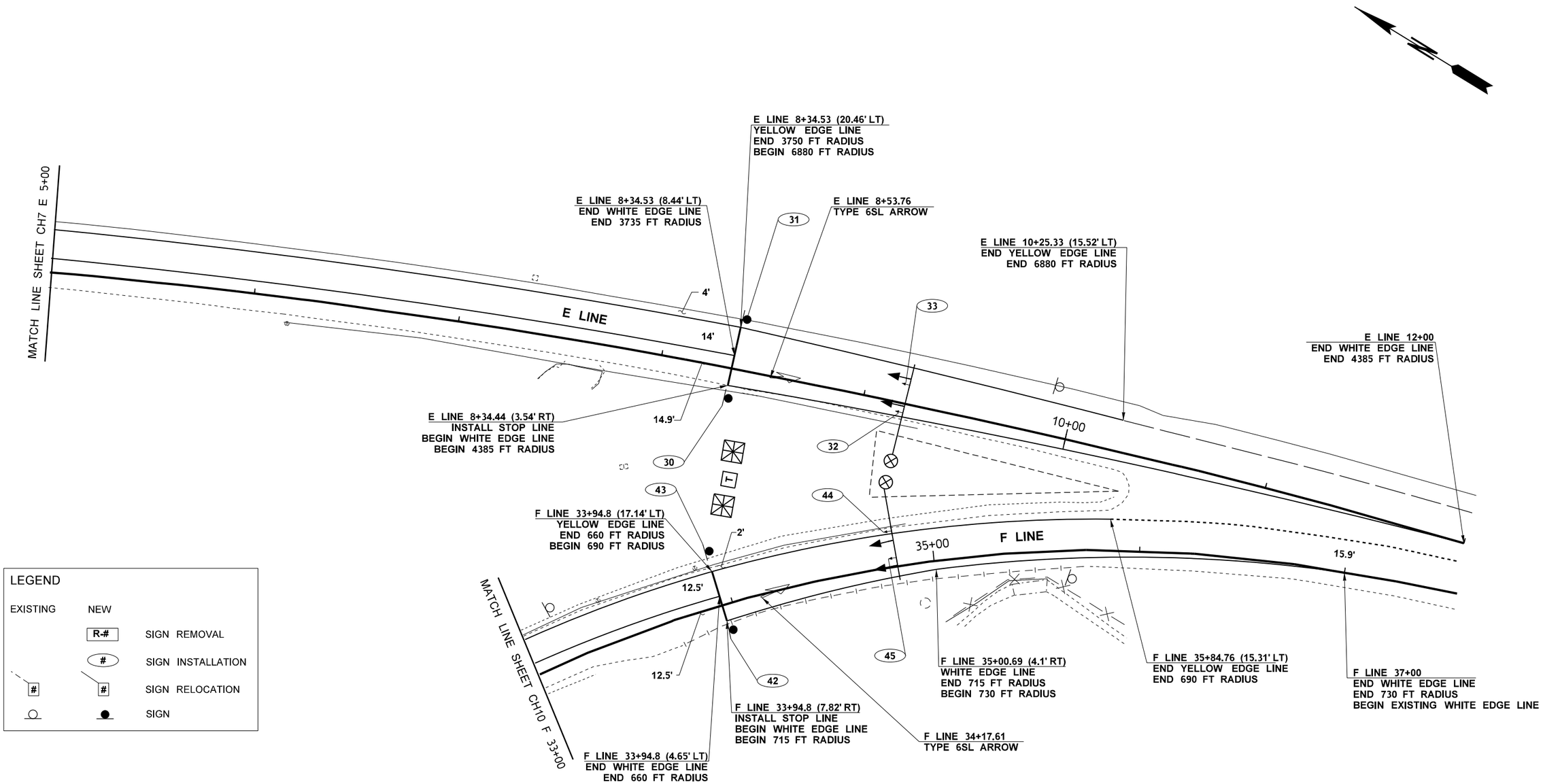
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SIGNING/CHANNELIZATION PLAN

Plot 15

PLAN REF NO
CH7

SHEET 124 OF 164 SHEETS



LEGEND

EXISTING	NEW	
	R-#	SIGN REMOVAL
	#	SIGN INSTALLATION
#	#	SIGN RELOCATION
○	●	SIGN

NOTES

1. SEE SHEET CH1 FOR GENERAL NOTES

SB I-205/SR 500
CD 03165/S1 03061

0 25 50
SCALE IN FEET

FILE NAME	G:\Trafflc\ITS\04 - Deslgn\Actlve Projects\QL0116 - I-205, SB 134th St to Mlll Plaln Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SN.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
TIME	9:33:11 AM				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
DATE	11/1/2022				CONTRACT NO.		LOCATION NO.
PLOTTED BY	fuestm						
DESIGNED BY	M. FUEST						
ENTERED BY	M. FUEST						
CHECKED BY	D. BURKEY						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA TO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

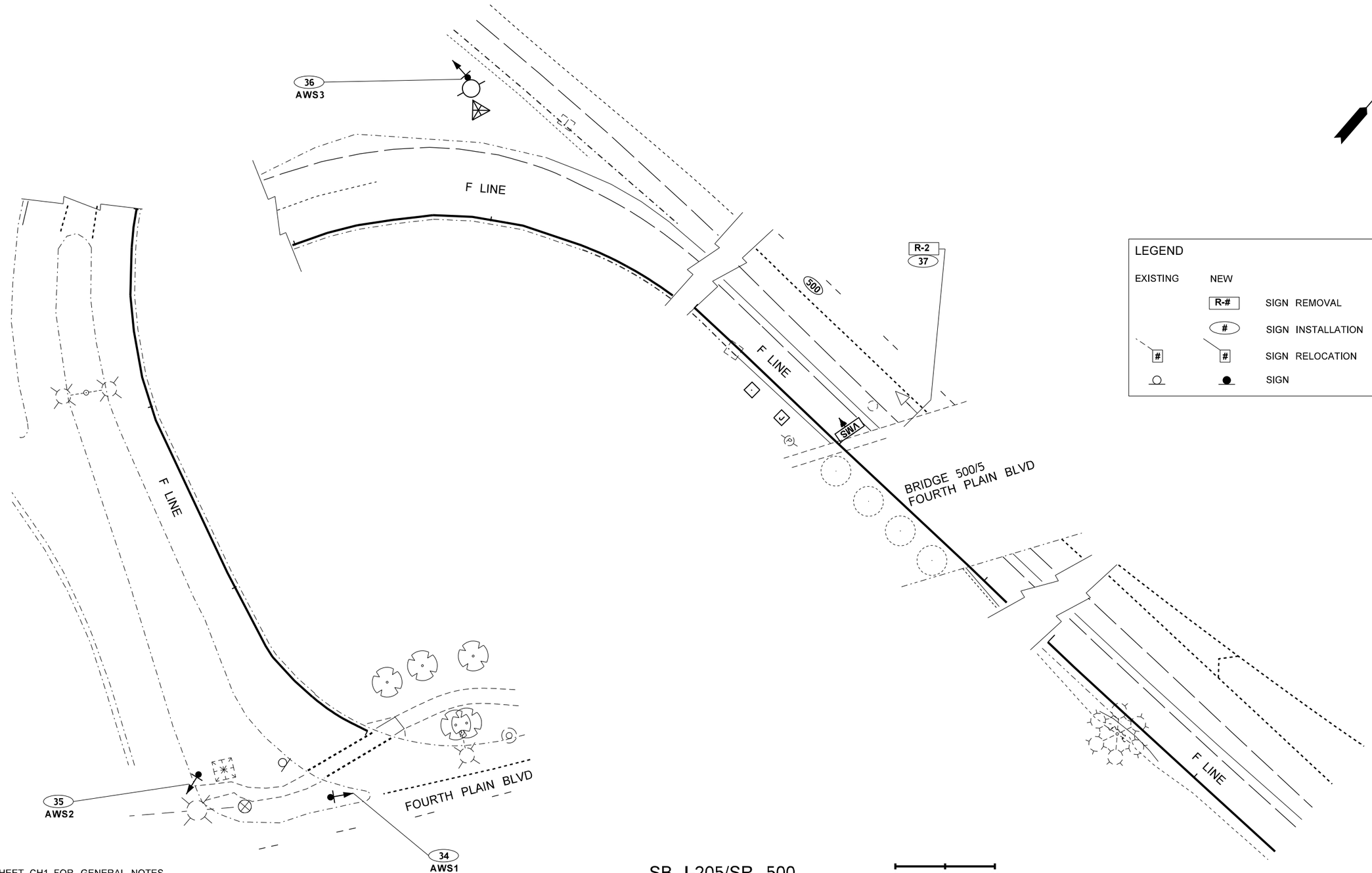
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SIGNING/CHANNELIZATION PLAN

Plot 5
PLAN REF NO
CH8
SHEET 125 OF 164 SHEETS



LEGEND

EXISTING	NEW	
	R-#	SIGN REMOVAL
	#	SIGN INSTALLATION
#	#	SIGN RELOCATION
○	●	SIGN

NOTES

1. SEE SHEET CH1 FOR GENERAL NOTES
2. SEE SHEET SN1 FOR OVERHEAD SIGN REMOVAL DETAILS

SB I-205/SR 500
S5 03061

0 25 50
SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SN.dgn			
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CHECKED BY	D. BURKEY			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA R. HARWOOD DIAZ
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

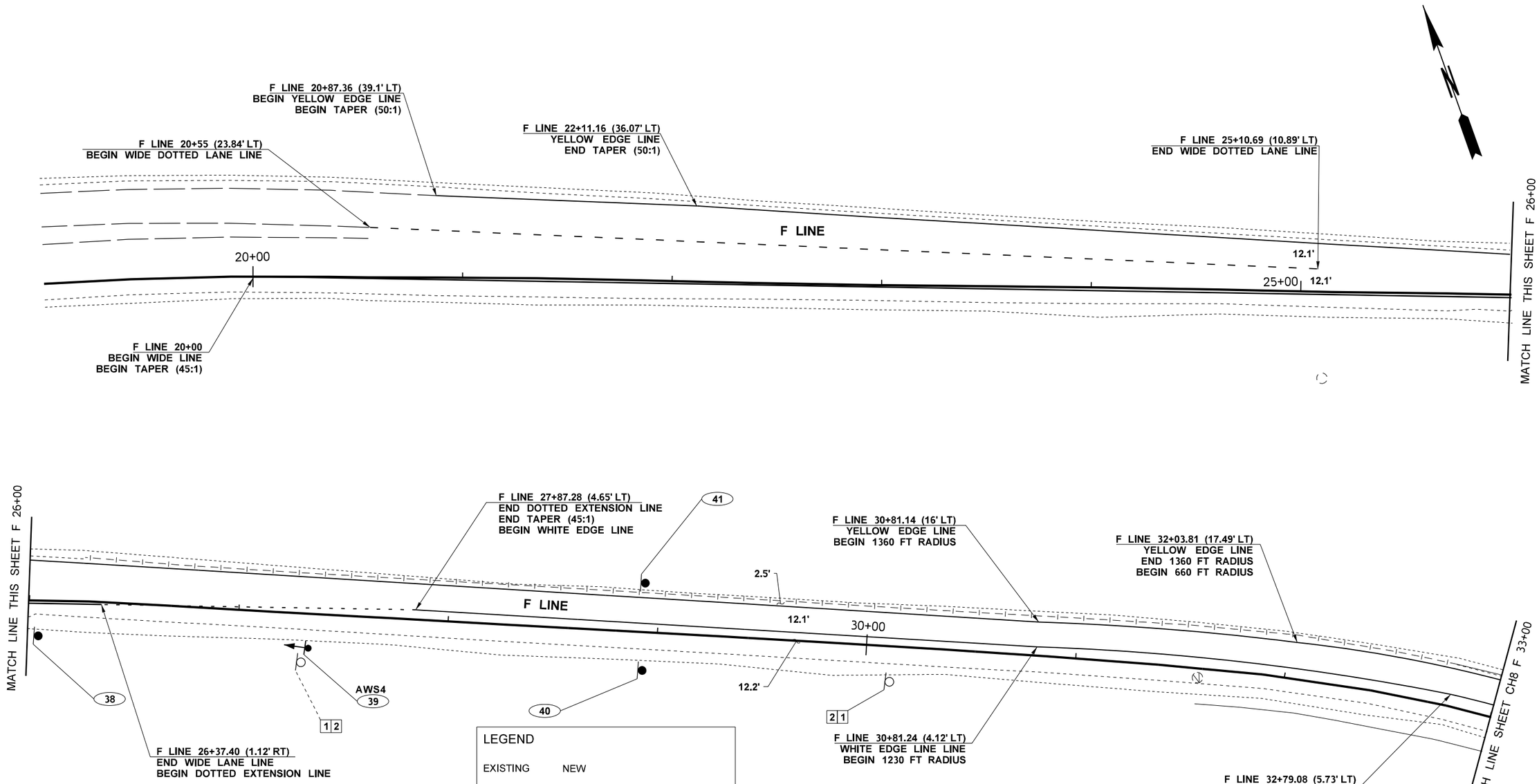
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SIGNING/CHANNELIZATION PLAN

Plot 16
PLAN REF NO
CH9
SHEET 126 OF 164 SHEETS



NOTES

1. SEE SHEET CH1 FOR GENERAL NOTES

SB I-205/SR 500
S5 03061/S1 03061

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DATE	11/1/2022				10	WASH	STP-2051(287)
PLOTTED BY	fuestm				JOB NUMBER		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST				22X332		
ENTERED BY	M. FUEST				CONTRACT NO.		LOCATION NO.
CHECKED BY	D. BURKEY						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA JO HARWOOD DAVIS
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

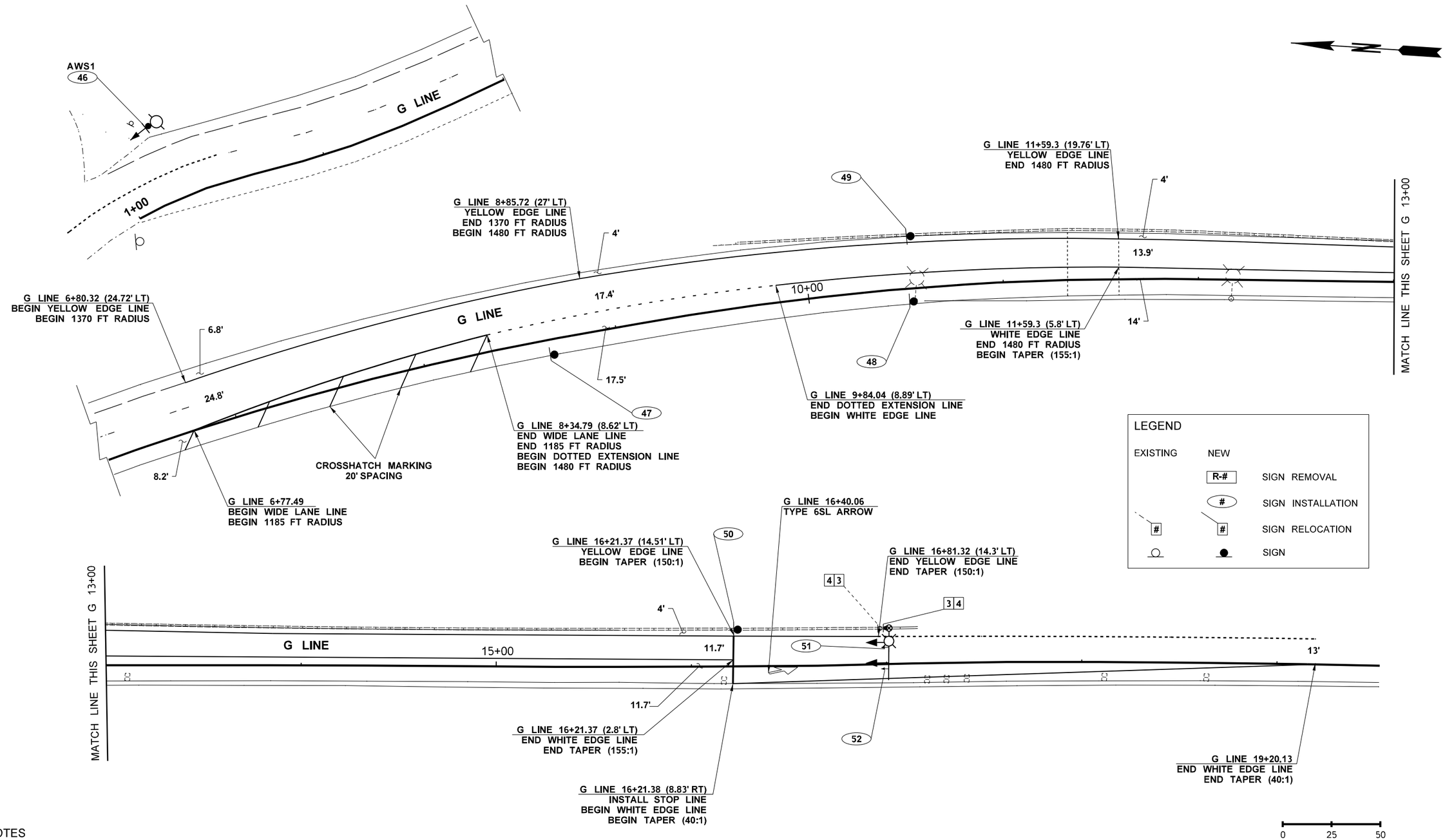
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SIGNING/CHANNELIZATION PLAN

Plot 6
PLAN REF NO
CH10
SHEET
127
OF
164
SHEETS



NOTES

1. SEE SHEET CH1 FOR GENERAL NOTES

SB I-205/18TH ST
S1 02881

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SN.dgn						
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DATE	11/1/2022						
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ENTERED BY	M. FUEST						
CHECKED BY	D. BURKEY						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER		CRRSAA(UL)-0051(318)
22X332		
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DIAZ
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

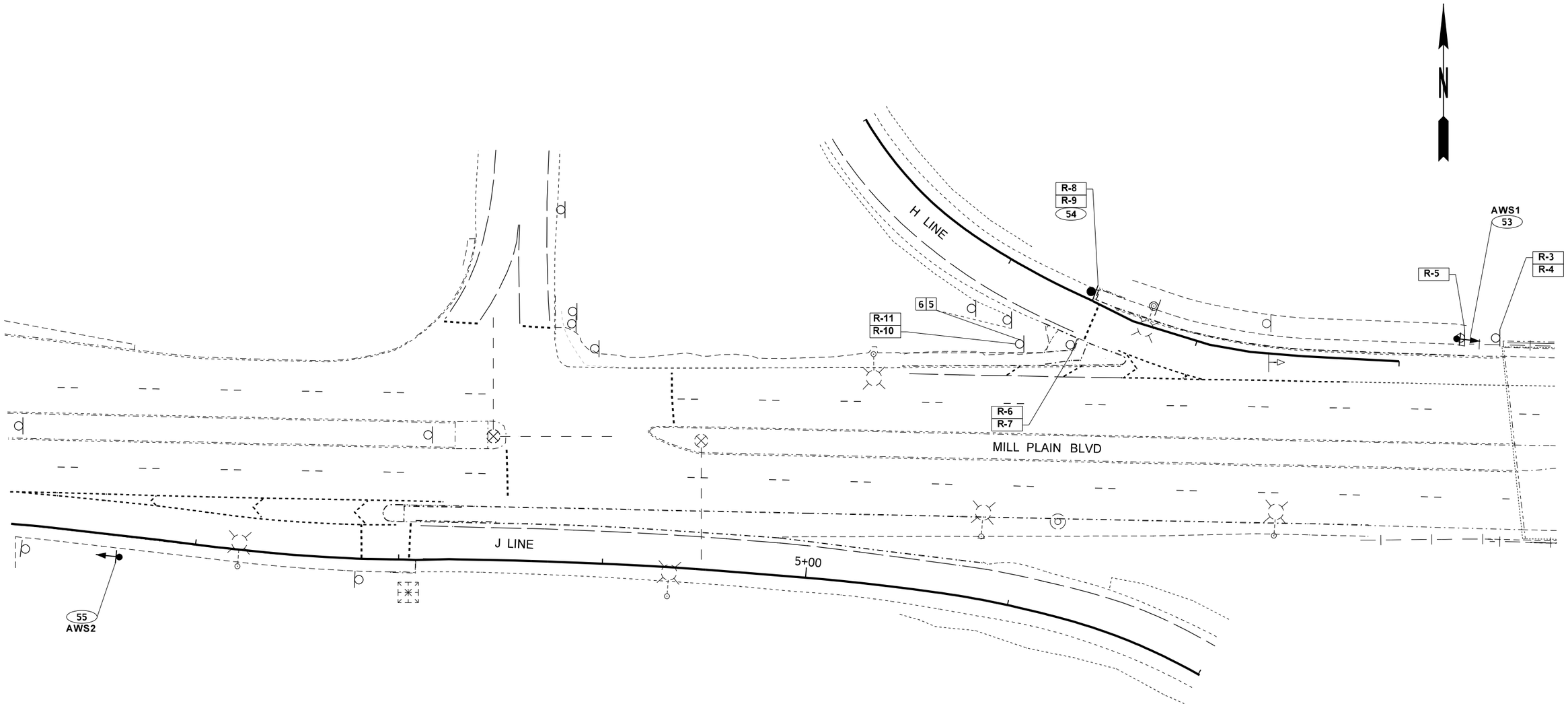
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SIGNING/CHANNELIZATION PLAN

Plot 7
PLAN REF NO
CH11
SHEET
128
OF
164
SHEETS



LEGEND

EXISTING	NEW	
	R-#	SIGN REMOVAL
	#	SIGN INSTALLATION
#	#	SIGN RELOCATION
○	●	SIGN

NOTES

1. SEE SHEET CH1 FOR GENERAL NOTES

0 25 50
SCALE IN FEET

SB I-205/MILL PLAIN BLVD

S5 02801/S1 02801

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SN.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
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DESIGNED BY	M. FUEST						
ENTERED BY	M. FUEST						
CHECKED BY	D. BURKEY				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA D. HARWOOD-DUNCAN, STATE OF WASHINGTON, 39389, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

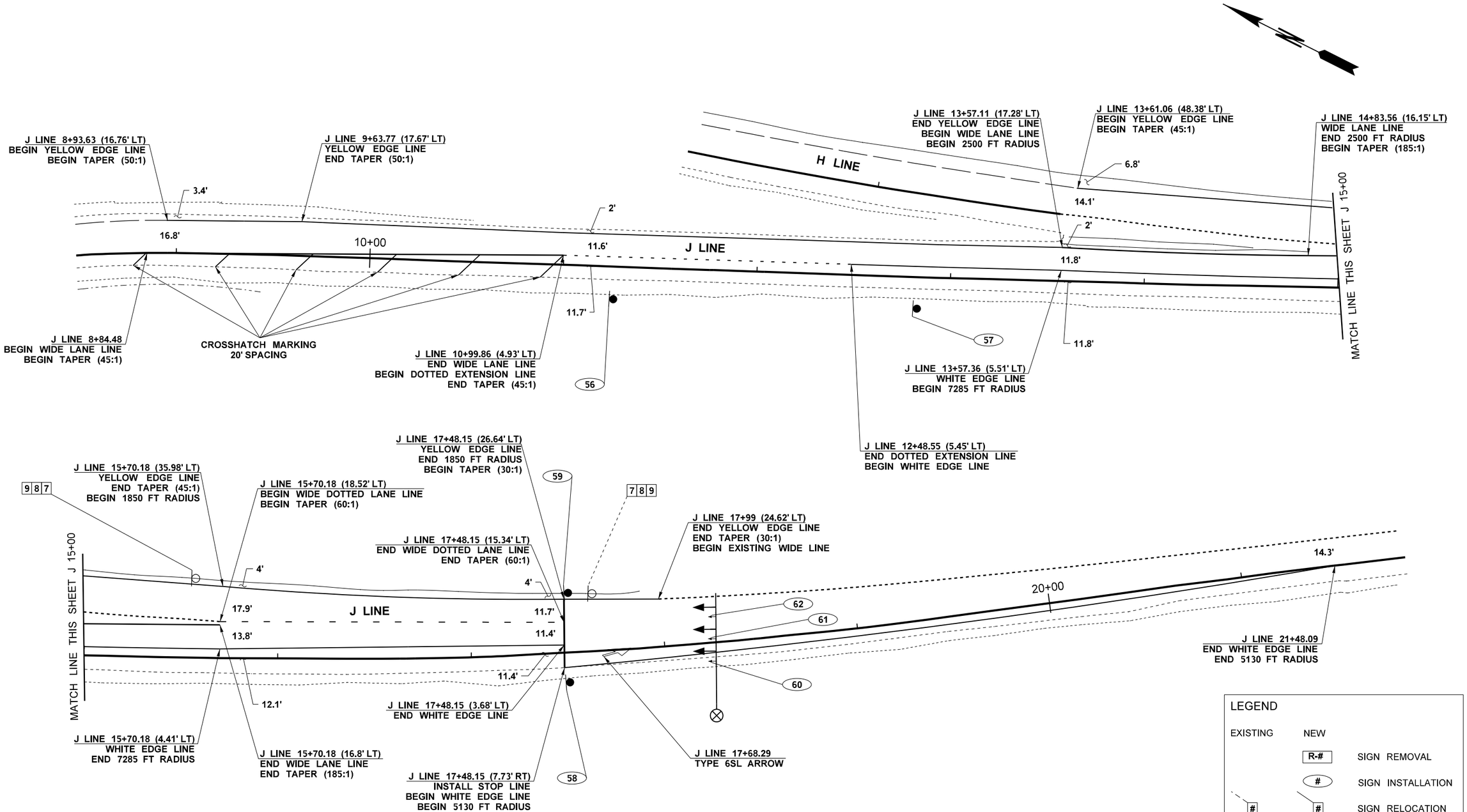
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SIGNING/CHANNELIZATION PLAN

Plot 18

PLAN REF NO
CH12

SHEET 129 OF 164 SHEETS



NOTES

1. SEE SHEET CH1 FOR GENERAL NOTES

SB I-205/MILL PLAIN BLVD
S5 02801/S1 02801

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SN.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287)
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ENTERED BY	M. FUEST						
CHECKED BY	D. BURKEY						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA D. HARWOOD-DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
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DATE
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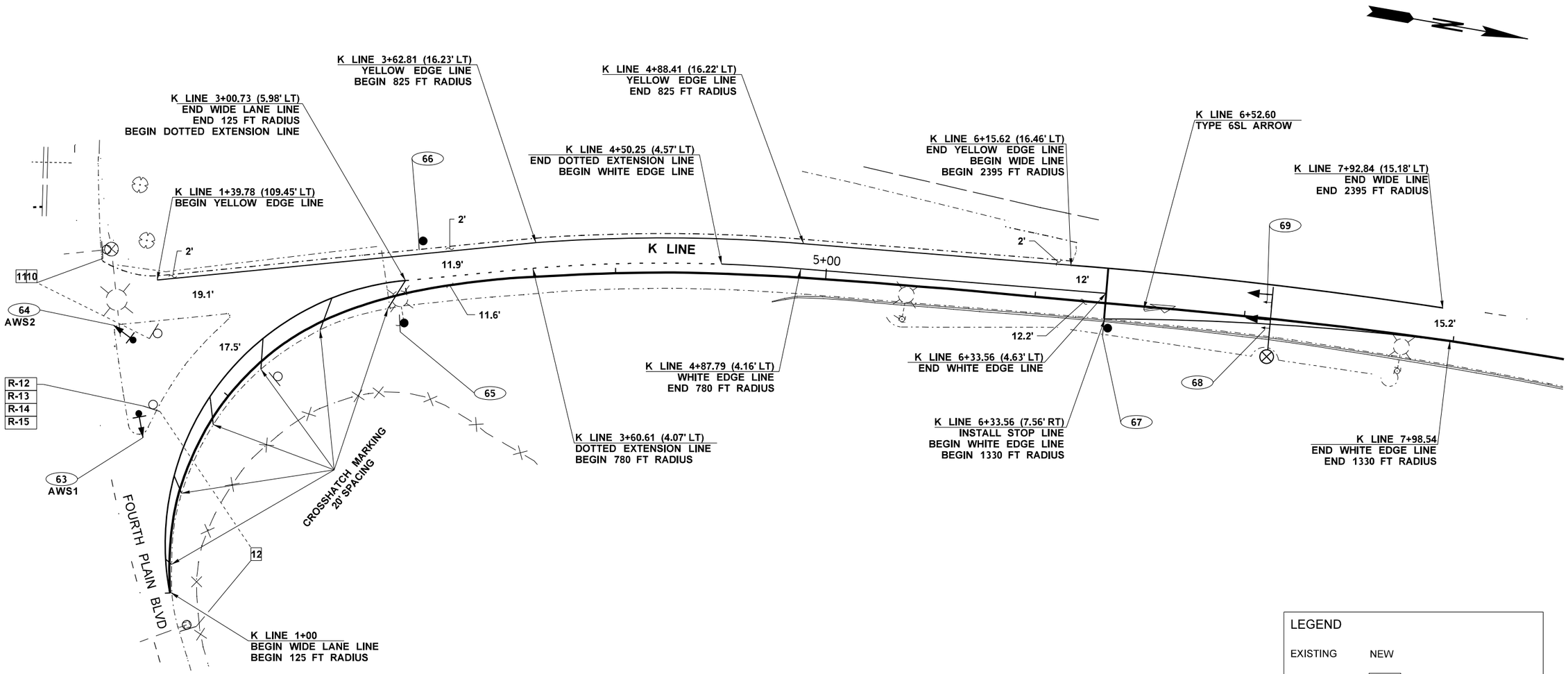
Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SIGNING/CHANNELIZATION PLAN

Plot 8
PLAN REF NO
CH13
SHEET 130 OF 164 SHEETS



LEGEND

EXISTING	NEW	
	R-#	SIGN REMOVAL
	#	SIGN INSTALLATION
#	#	SIGN RELOCATION
○	●	SIGN

0 25 50
SCALE IN FEET

NOTES

1. SEE SHEET CH1 FOR GENERAL NOTES

NB I-5/FOURTH PLAIN BLVD

Q1 00191

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CHECKED BY	D. BURKEY				
PROJ. ENGR.	M. HARWOOD				
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA D. HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
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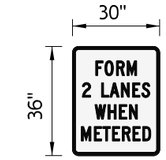
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SIGNING/CHANNELIZATION PLAN

Plot 9
PLAN REF NO CH14
SHEET 131 OF 164 SHEETS

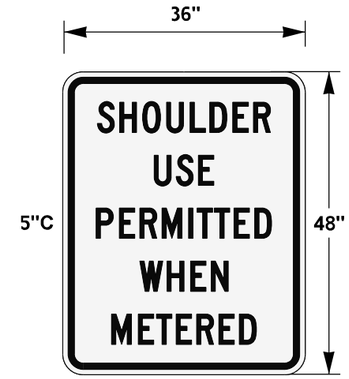


R10-0002SP

5 6 14 15
21 22 29 40
41 48 49 57
65 66

R10-1402SP

9 17 24 32
45 51 60 68



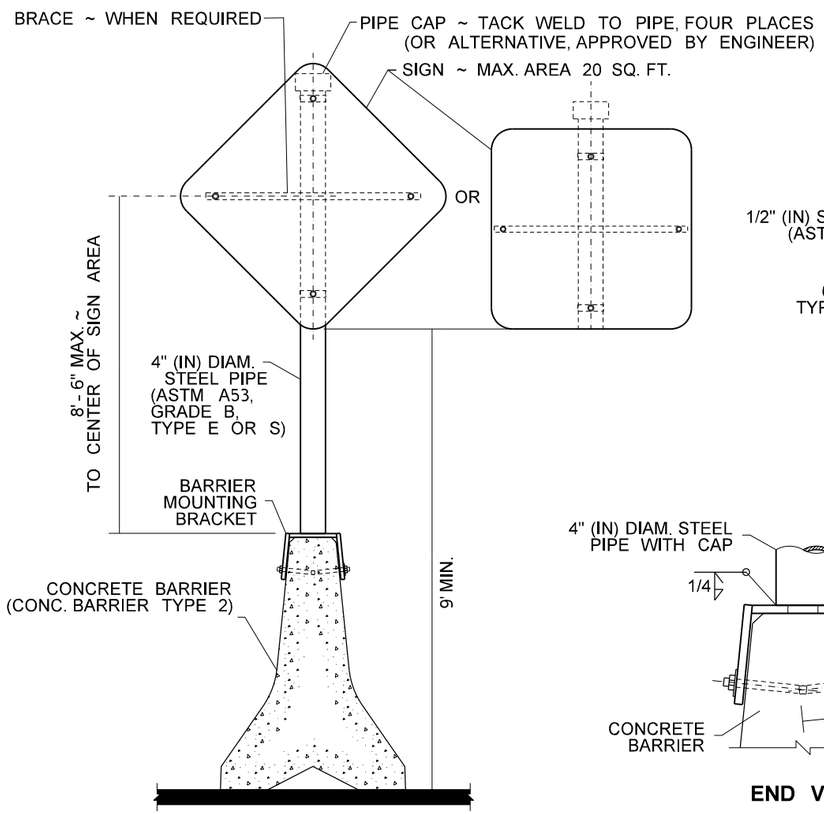
R3-0000SP

4 12 20 28
38 47 56

13 W2-602MOD

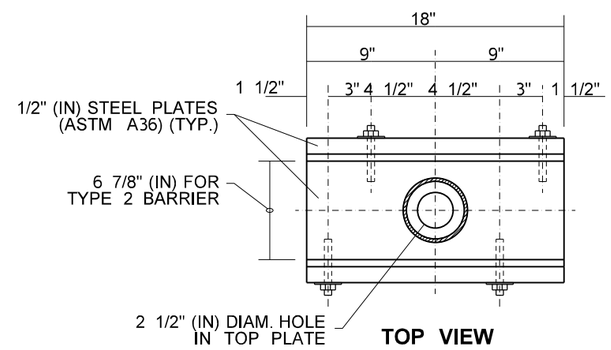
1.500" Radius, 0.750" Border, 0.500" Indent, Black on Yellow;
"CAUTION", 5D 80% spacing;

"DO NOT", 3C; "DRIVE BESIDE", 3C; "TRUCKS", 3C;

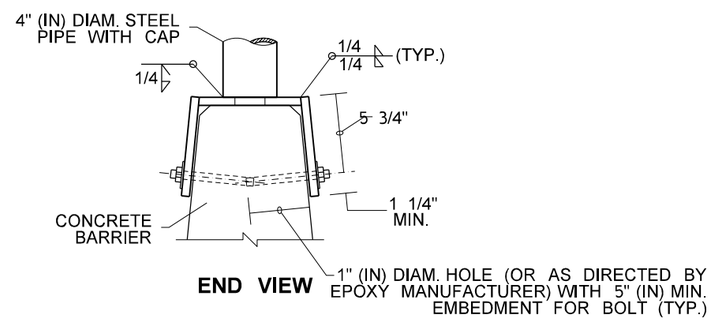


TYPICAL SECTION

SIGN DETAIL

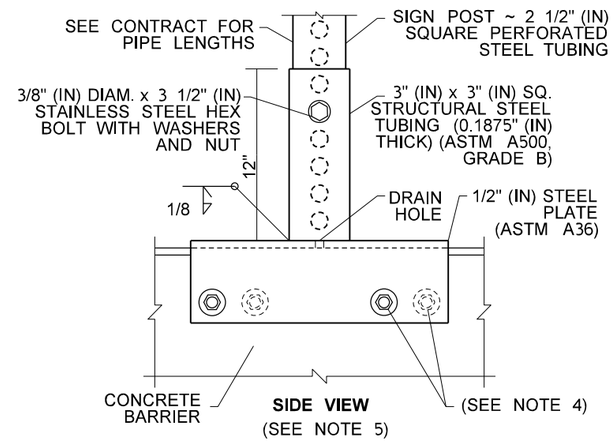


TOP VIEW



END VIEW

PRECAST BARRIER MOUNTED SIGN SUPPORT



SIDE VIEW

FOR SQUARE TUBING SIGN POSTS SUPPORTING
SIGNS WITH A MAXIMUM AREA OF 9 SQ.FT.

"MANUFACTURED" BARRIER MOUNTING BRACKET

NOTES

1. ATTACH SIGN TO Z-BAR OR WINDBEAM WITH 3/16" (IN) RIVETS AT 4" (IN) STAGGERED SPACING.
2. A NYLON WASHER SHALL BE PLACED BETWEEN THE SIGN FACE AND ANY OTHER WASHER REQUIRED ON SIGNS CONSTRUCTED OF TYPE III OR IV SHEETING.
3. A BENT PLATE MAY BE USED IN LIEU OF THE WELDED PLATES SHOWN. BOTH SHALL BE GALVANIZED AFTER FABRICATION.
4. THE BRACKET TO BARRIER FASTENERS SHALL BE 5/8" (IN) DIAMETER RESIN BONDED ANCHORS (ALL-THREAD) ASTM A193 GRADE B7 OR ASTM A449 (GALVANIZED) WITH MATCHING NUT AND WASHER. EPOXY RESIN SHALL CONFORM TO STANDARD SPECIFICATION 9-26.1.
5. DETAILS SHOWN IN OTHER VIEWS ARE COMMON IN BOTH BRACKETS.

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DATE	11/1/2022						
PLOTTED BY	fuestm				JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST						
ENTERED BY	M. FUEST				CONTRACT NO.		LOCATION NO.
CHECKED BY	D. BURKEY						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

RONALD D. HARWOOD JR. STATE OF WASHINGTON 39399 REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

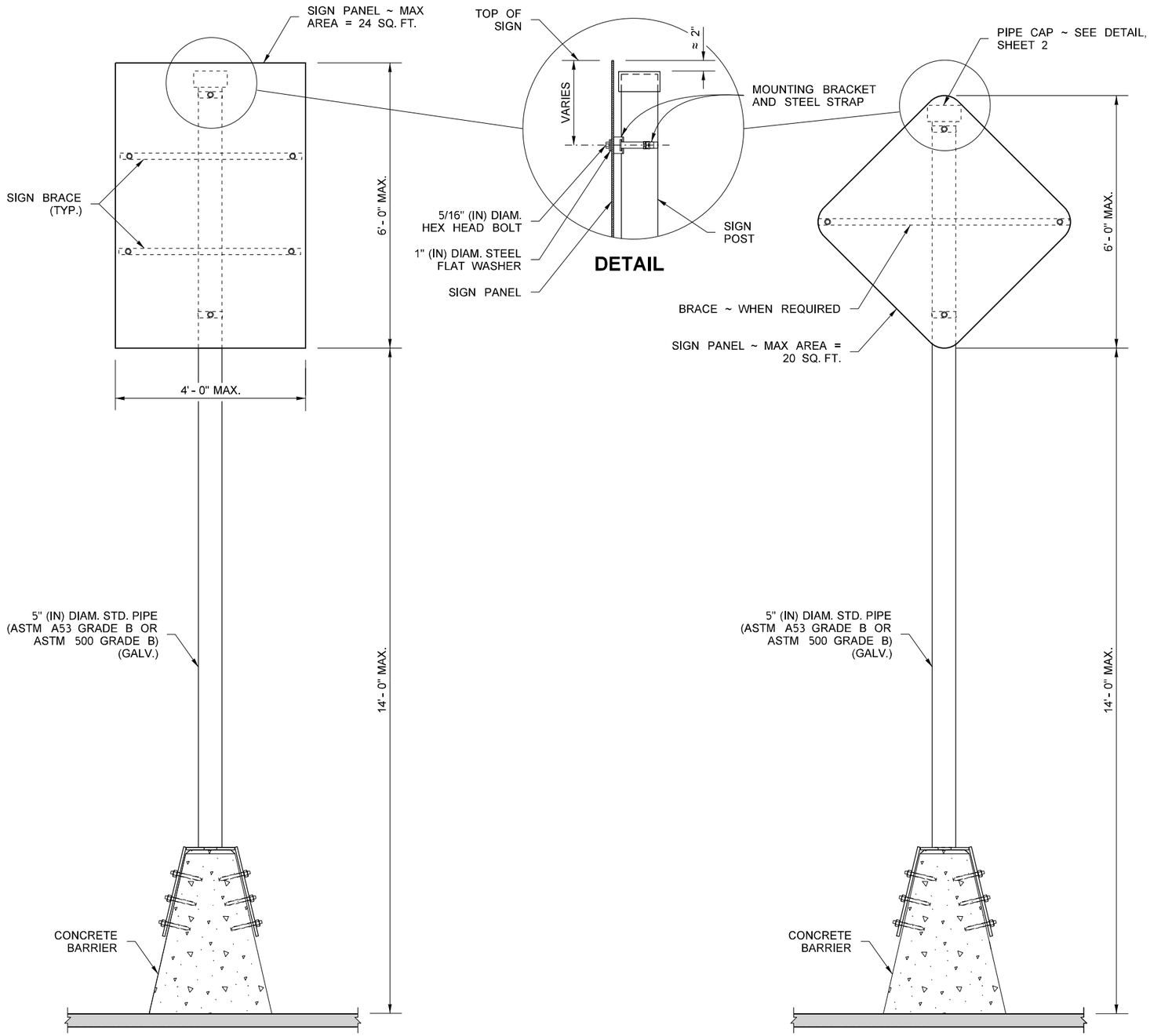
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SIGNING DETAILS

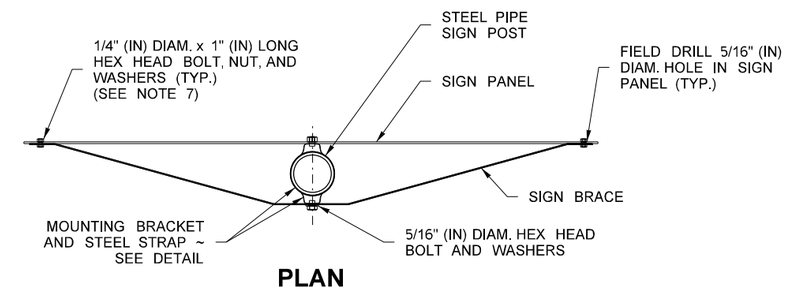
Plot 21
PLAN REF NO
SD1
SHEET 132 OF 164 SHEETS



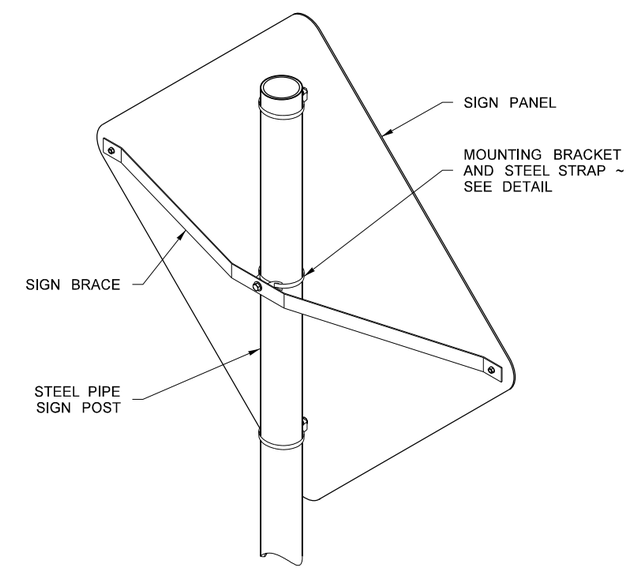
BARRIER - MOUNTED SIGN POST

NOTES

1. SIGN POST SHALL BE INSTALLED PLUMB.
2. PLACEMENT OF SIGN SHALL BE IN ACCORDANCE WITH **STANDARD SPECIFICATION 8-21.3(2)**.
3. CENTER OF SIGN PANEL SHALL BE LOCATED 17' (FT) OR LESS ABOVE THE GROUND SURFACE.
4. SIGN POST SHALL BE MOUNTED ON BARRIER WITH A MINIMUM SEGMENT WEIGHT OF 10,000 LBS. AND A MINIMUM WIDTH OF 2' - 0" AT THE BASE. DO NOT MOUNT SIGN POST ON TYPE 2 PRE-CAST BARRIER.
5. SADDLE MOUNT ANCHOR BOLTS SHALL NOT BE WITHIN 1' - 6" OF THE END OF A BARRIER SEGMENT.
6. RESIN BONDED ANCHORS SHALL CONFORM TO BRIDGE SPECIAL PROVISIONS 0221GR6 AND 02318GR6.
7. FOR SIGN PANEL MOUNTING DETAILS, SEE **STANDARD PLAN G-50.10**.
8. SIGN POST ASSEMBLY SHALL BE GALVANIZED AFTER FABRICATION PER AASHTO M 111.



PLAN



SIGN BRACE ON SIGN POST

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SN.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
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DATE	11/1/2022				JOB NUMBER		CRRSAA(UL)-0051(318)
PLOTTED BY	fuestm				22X332		
DESIGNED BY	M. FUEST				CONTRACT NO.		LOCATION NO.
ENTERED BY	M. FUEST						
CHECKED BY	D. BURKEY						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA D. HARWOOD DIAZ, STATE OF WASHINGTON, 39399, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

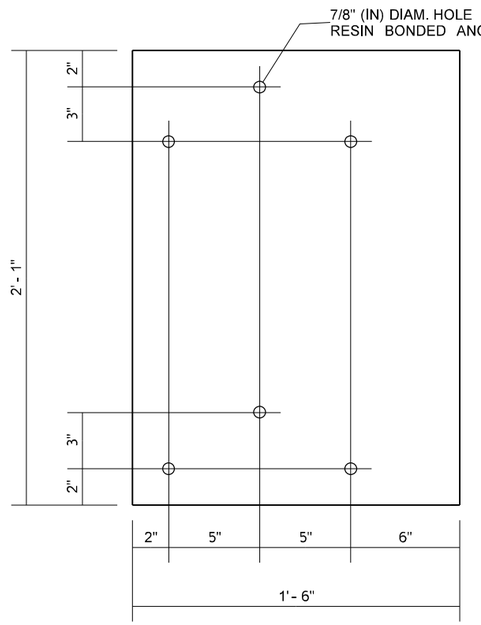
DATE
P.E. STAMP BOX

Washington State Department of Transportation

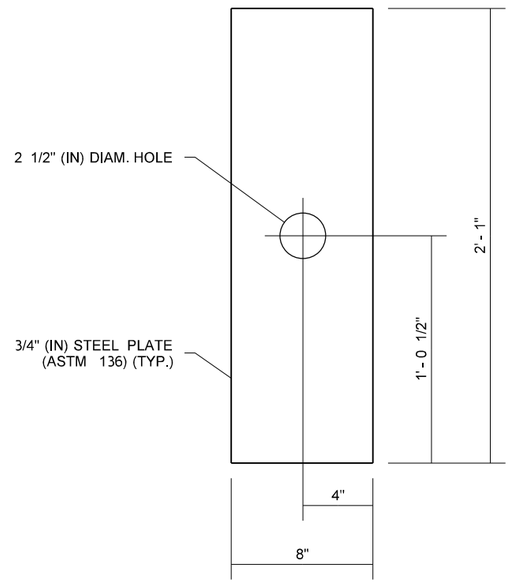
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SIGNING DETAILS

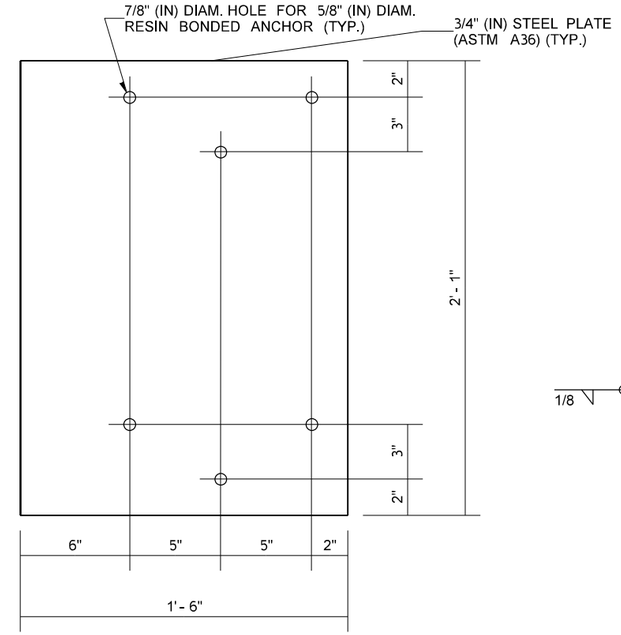
Plot 22
PLAN REF NO
SD2
SHEET 133 OF 164 SHEETS



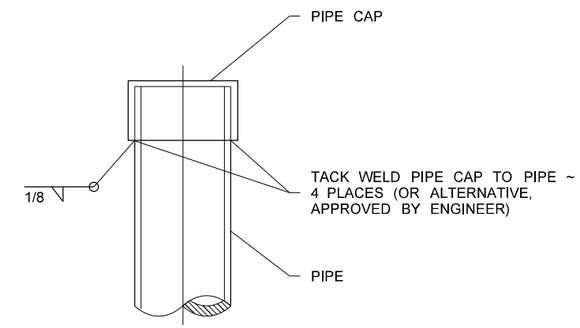
LEFT PANEL



TOP PANEL

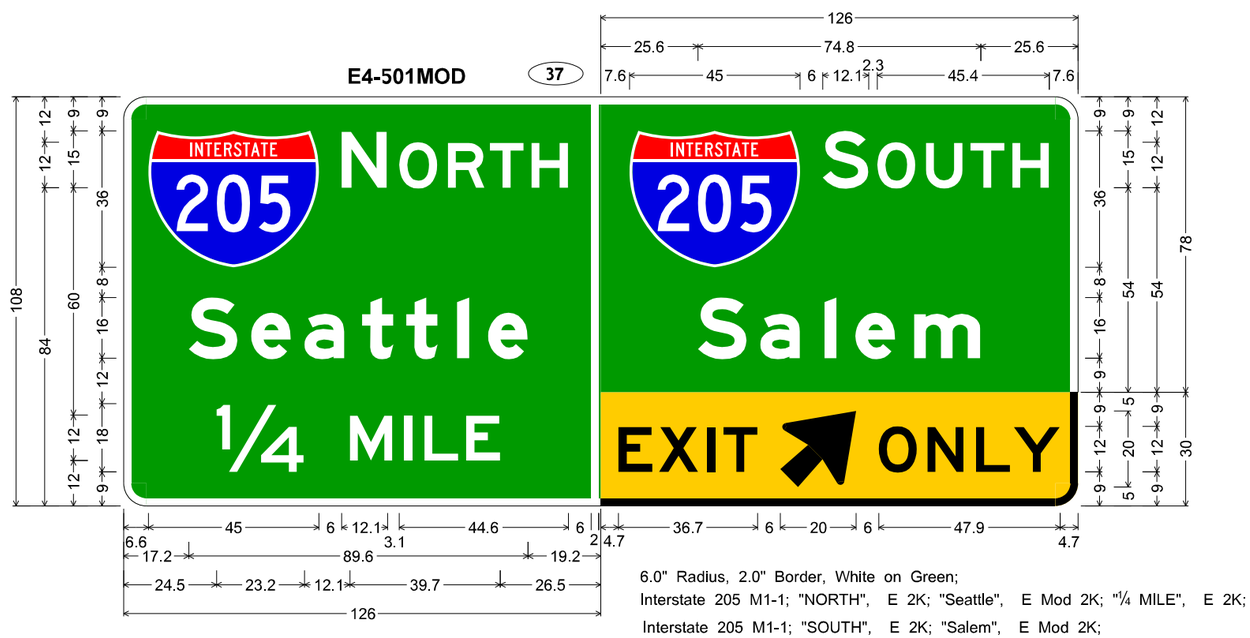


RIGHT PANEL

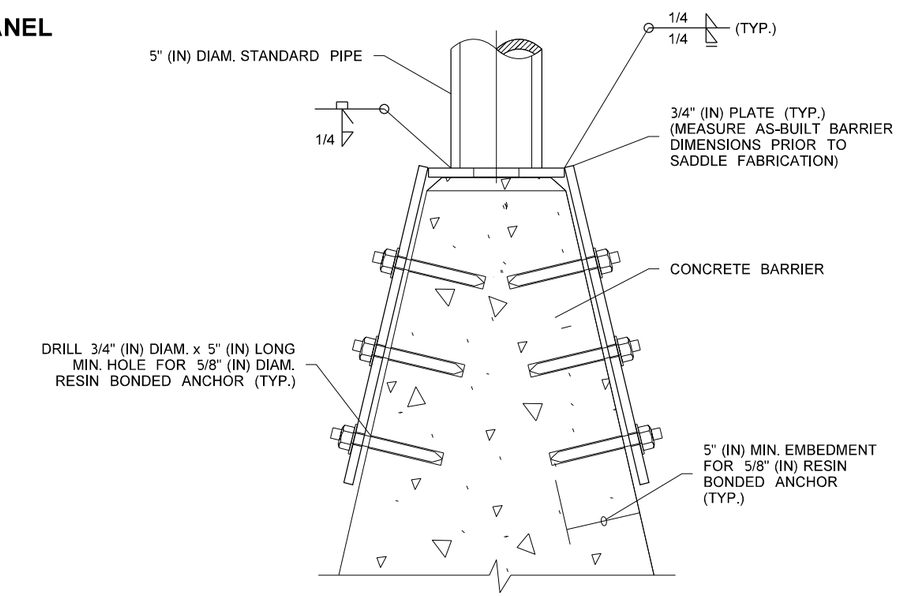


CAP DETAIL

E4-501MOD 37



6.0" Radius, 2.0" Border, White on Green;
Interstate 205 M1-1; "NORTH", E 2K; "Seattle", E Mod 2K; "1/4 MILE", E 2K;
Interstate 205 M1-1; "SOUTH", E 2K; "Salem", E Mod 2K;
6.0" Radius, 2.0" Border, Black on Yellow;
"EXIT", E 2K; Arrow 5 - 25.0" 45°; "ONLY", E 2K;



TYPICAL SECTION

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_SN.dgn			
TIME	9:34:29 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	D. BURKEY			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

SEE SHEET CT1
DATE
P.E. STAMP BOX

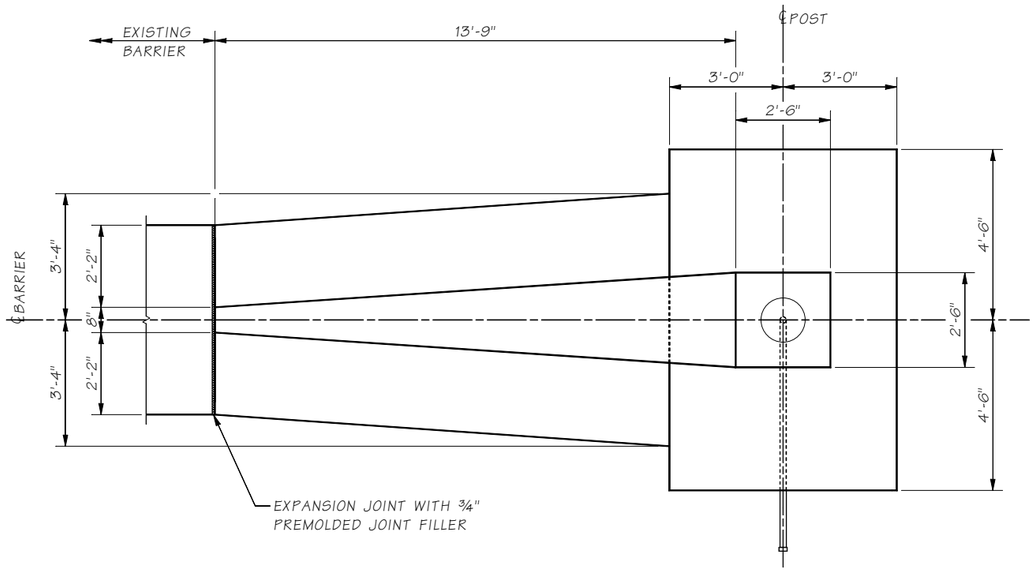
DATE
P.E. STAMP BOX

Washington State Department of Transportation

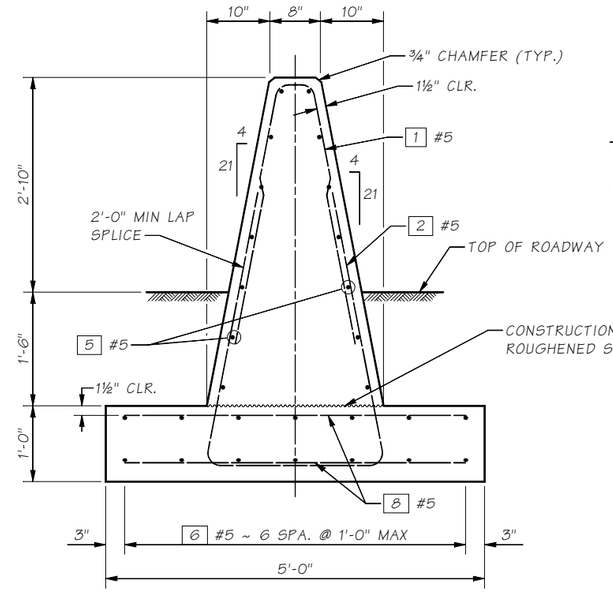
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

SIGNING DETAILS

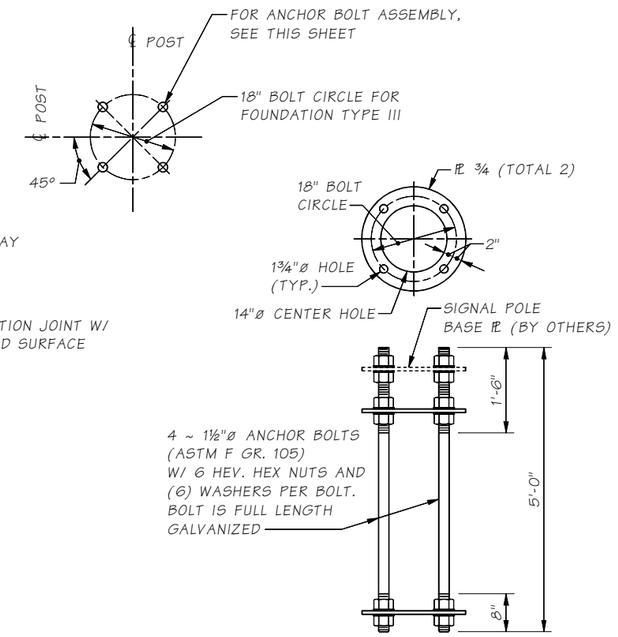
Plot 23
PLAN REF NO SD3
SHEET 134 OF 164 SHEETS



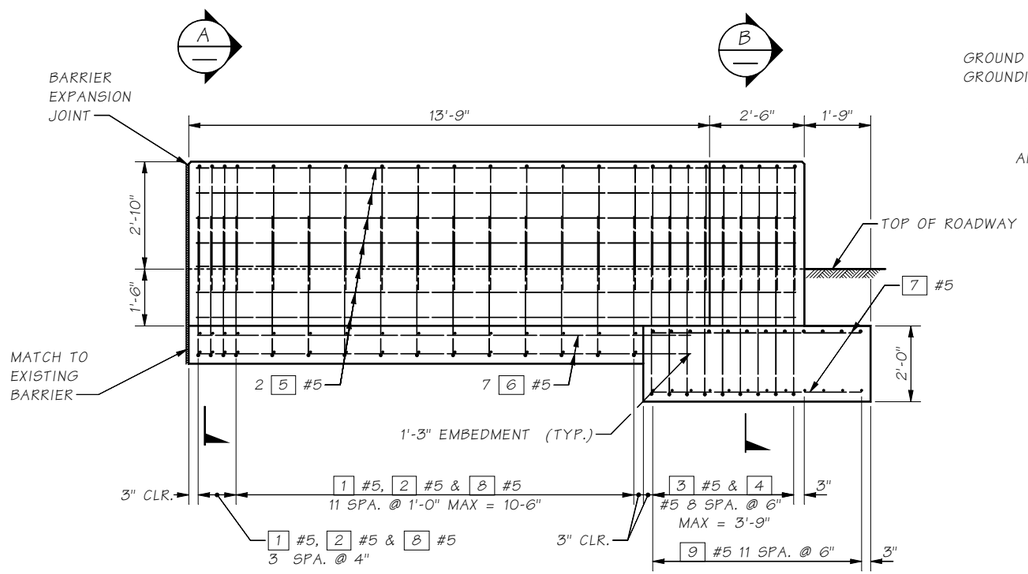
PLAN



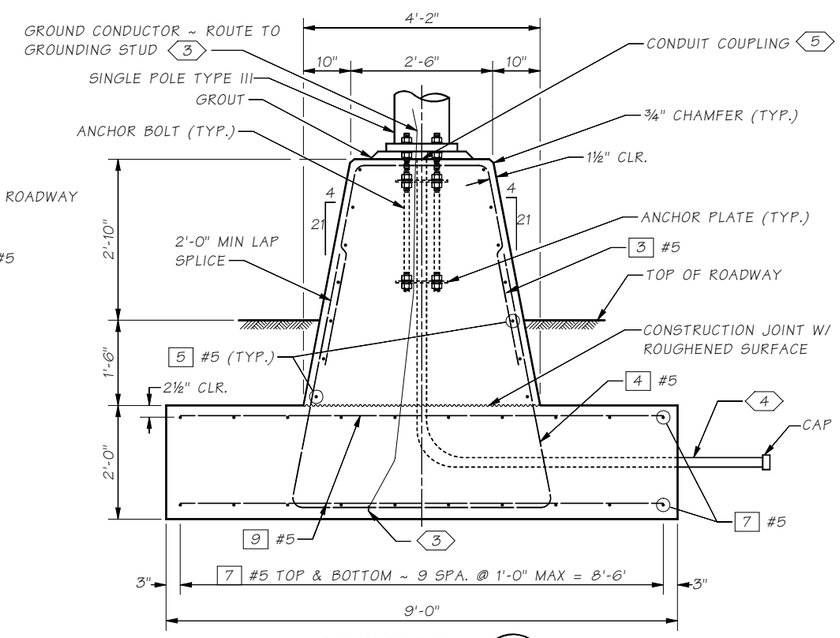
SECTION A



ANCHOR BOLT ASSEMBLY FOR FOUNDATION TYPE I



ELEVATION



SECTION B

NOTES:

1. THIS BARRIER/FOUNDATON COMBINATION HAS BEEN DESIGNED IN ACCORDANCE WITH AASHTO LRFD TEST LEVEL 4 REQUIREMENTS. THE HORIZONTAL VEHICLE IMPACT FORCE AT THE TOP OF THE BARRIER IS TAKEN AT 54 KIPS FOR STRENGTH AND EXTREME LIMT STATES, AND 10 KIPS FOR FOOTING STABILITY (OVERTURNING AND SLIDING) IN THE SERVICE LIMT STATE.

2. WHEN CONNECTING BETWEEN CAST-IN-PLACE AND PRECAST SINGLE-SLOPE BARRIER, PROVIDE A CONNECTION BLOCKOUT AND REBAR GRID AS SHOWN ON STANDARD PLAN C-70.10.

3. GROUNDING CONDUCTOR SHALL BE NON-INSULATED #4 AWG STRANDED COPPER; PROVIDED 3'-0" MIN. SLACK. CLAMP STEEL REINFORCING BAR WITH CONNECTOR SUITABLE FOR USE EMBEDDED IN CONCRETE.

4. SEE THE CONTRACT PLANS FOR CONDUIT PLACEMENT.

5. INSTALL CONDUIT COUPLING FLUSH WITH TOP OF FOUNDATION. DO NOT GLUE PVC STUBOUT.

6. CONCRETE SHALL BE CLASS 4000.

7. THE SUBGRADE SHALL BE APPROVED BY THE GEOTECHNICAL OFFICE. THE FACTORED LOADS SHALL BE EQUAL TO OR LESS THAN THE FOLLOWING:

   I) SERVICE LIMIT STATE = 5.0 KSF
   II) STRENGTH LIMIT STATE = 10.2 KSF
   III) EXTREME LIMIT STATE = 22.6 KSF

Bridge Design Engr.	Khaleghi, B		
Supervisor	Zeldenrust, RP		
Designed By	ARANA, A	07/22	
Checked By	Bedi, G	08/22	
Detailed By	Tubbs, N	07/22	
Bridge Projects Engr.			
Prelim. Plan By			
Architect/Specialist			

M:\X-Team\MILL PLAIN TO NE 18th\GRADE SEPARATION BARRIER\window files\RAMPMETERBARRIER.wnd

DATE	REVISION	BY	APP'D

REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	WASH.	STP-2051(287) CRRSAA(UL)-0051(318)		

JOB NUMBER 22X332

CONTRACT NO.

BRIDGE AND STRUCTURES OFFICE

RICHARD P. ZELDENRUST, STATE OF WASHINGTON, 25970, PROFESSIONAL ENGINEER, U.S.A.

SEE SHEET CT1 DATE

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

RAMP METER BARRIER DETAILS

BRIDGE SHEET NO. TB1

SHEET 135 OF 164 SHEETS

SR 205 FILE NO. ____ SHEET TB1

Tue Oct 18 15:05:06 2022

S = Bar is included in substructure quantities.
L = Lump sum quantity.
T = Transverse or S = Seismic
E = Bar is to be epoxy coated.
V = Bar dimensions vary between dimensions shown on this line and the following line.

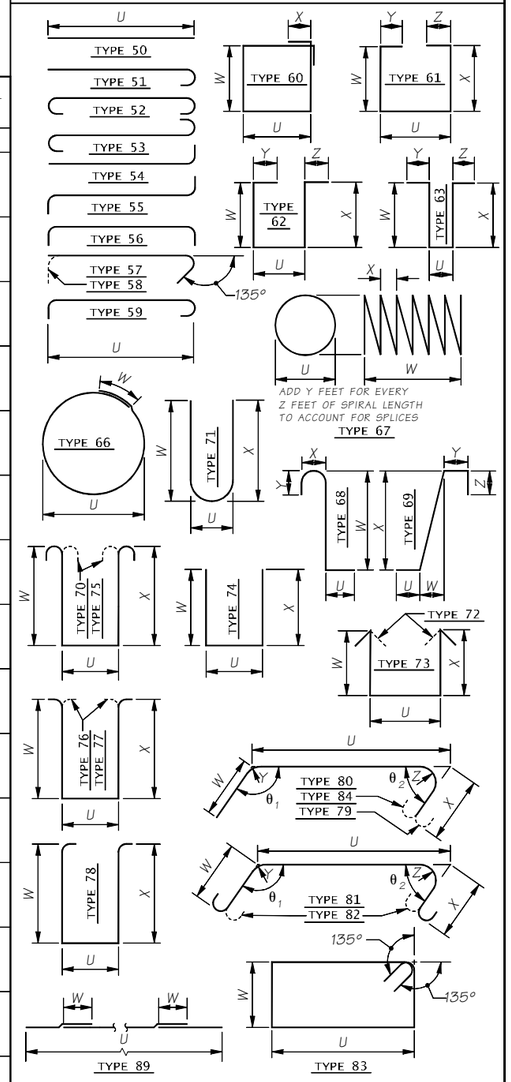
MARK NO.	LOCATION	SIZE	NO REQ'D	BEND TYPE	TIE OR STIR.	LUMP SUM	SUBSTR.	EPOXY COAT	VARIES	NO. EACH	DIMENSIONS (Out to Out) U Ft.	U In.	W Ft.	W In.	X Ft.	X In.	Y Ft.	Y In.	Z Ft.	Z In.	θ_1 Deg.	θ_2 Deg.	LENGTH Ft.	LENGTH In.	WEIGHT Lbs.
	REINFORCING STEEL																								
1	Barrier ~ Top Vertical	5	15	80							0	5.0	3	5.0	3	5.0	0	2.5	0	2.5	101	101	7	1	111
2	Barrier ~ Bottom Vertical	5	15	80							2	5.0	3	8.0	3	8.0	0	2.5	0	2.5	79	79	9	5	147
3	Barrier ~ Top Vertical	5	9	80							2	3.0	3	5.0	3	5.0	0	2.5	0	2.5	101	101	8	11	84
4	Barrier ~ Bottom Vertical	5	9	80							4	8.0	4	7.0	4	7.0	0	2.5	0	2.5	79	79	13	6	126
5	Barrier ~ Horizontal	5	14	50							15	9.0											15	9	230
6	Footing	5	14	50							13	0.0											13	0	190
7	Footing	5	20	50							5	6.0											5	6	115
8	Footing	5	30	50							4	6.0											4	6	141
9	Footing	5	24	50							8	6.0											8	6	213

S = Bar is included in substructure quantities.
L = Lump sum quantity.
T = Transverse or S = Seismic
E = Bar is to be epoxy coated.
V = Bar dimensions vary between dimensions shown on this line and the following line.

STEEL REINFORCING BAR QUANTITIES NOT INCLUDED IN THIS BAR LIST

TRAFFIC BARRIER
BRIDGE GRATE INLETS
RETAINING WALL

BENDING DIAGRAMS



NOTES:

1. ALL REINFORCING BARS ON THIS SHEET SHALL BE ASTM A 706 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 205 FILE NO. ____ SHEET TB2

Bridge Design Engr.	Khaleghi, B	
Supervisor	Zeldenrust, RP	
Designed By	ARANA, A	07/22
Checked By	BONDY, T	10/22
Detailed By	Tubbs, N	07/22
Bridge Projects Engr.		
Prelim. Plan By		
Architect/Specialist		

M:\X-Team\MILL PLAIN TO NE 18th\GRADE SEPARATION BARRIER\window files\BARLIST.wnd

DATE	REVISION	BY	APP'D

REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	WASH.	STP-2051(287) CRRSAA(UL)-0051(318)		

JOB NUMBER 22X332
CONTRACT NO.

BRIDGE AND STRUCTURES OFFICE

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

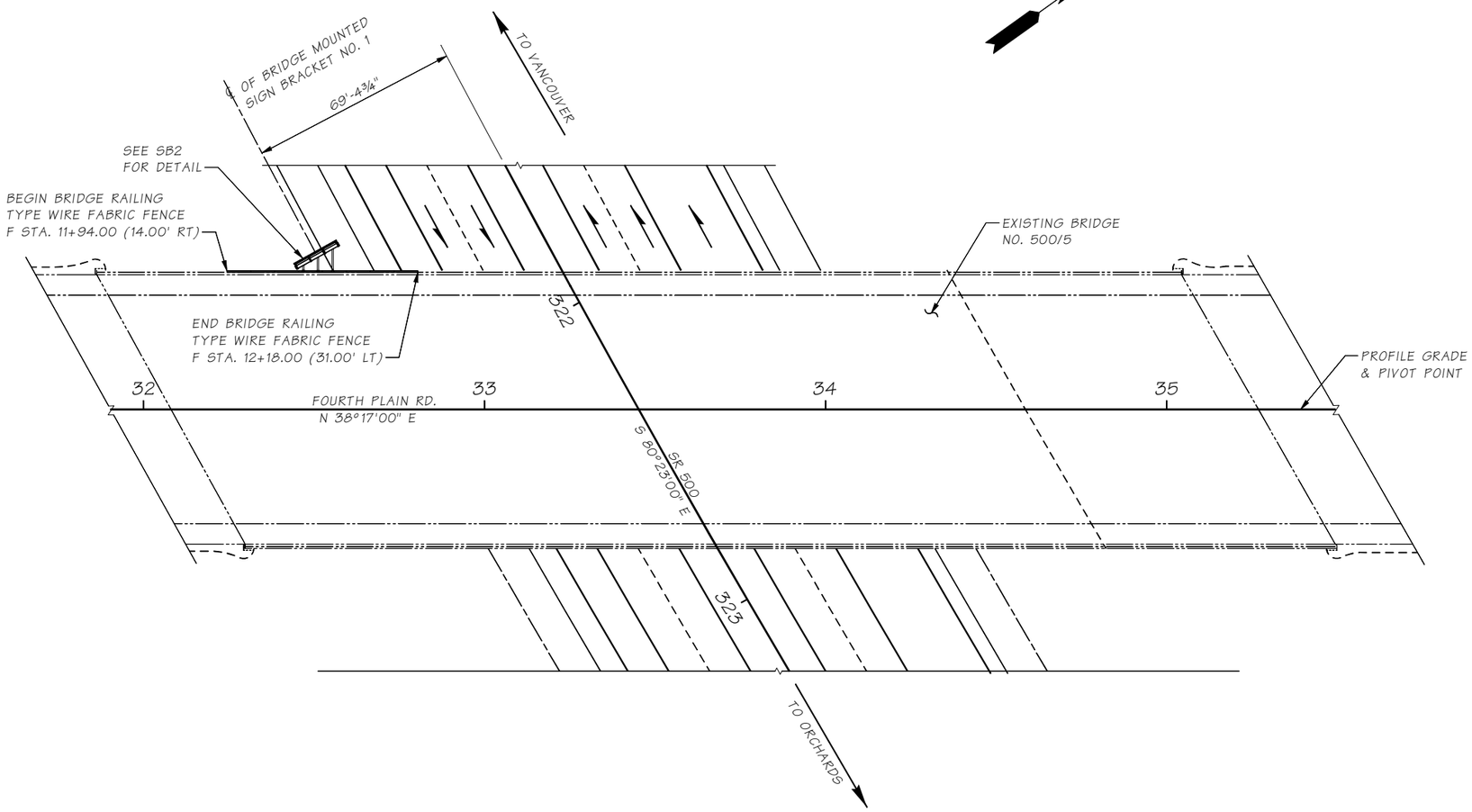
BAR LIST

BRIDGE SHEET NO. TB2

SHEET 136 OF 164 SHEETS

Tue Oct 18 15:05:07 2022

SEC.16, T.2N., R.2E., W.M.
CITY OF VANCOUVER



PLAN
BR. 500/5

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, DATED 2023 AND AMENDMENTS.
2. SIGN SUPPORT COMPONENTS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF AASHTO LFRD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, FIRST EDITION DATED 2015 AND INTERIMS, USING BASIC WIND SPEED OF 115 MPH.
3. MATERIAL SPECIFICATIONS:

PLATES AND BARS	ASTM A 36
TUBING	ASTM A 500, GRADE B OR C
BOLTS, NUTS & WASHERS (UNLESS NOTED OTHERWISE)	STD SPEC. 9-06.5(1)
U-BOLTS, LOCKNUTS & WASHERS (UNLESS NOTED OTHERWISE)	STAINLESS STEEL CONFORMING TO STD SPEC. 9-28.11
RESIN BONDED ANCHORS (ALL THREAD)	ALL THREADED ROD: ASTM F 593, TYPE 304 NUT: ASTM F 594, TYPE 304 WASHERS: ASTM A 240, TYPE 304
EPOXY BONDING AGENT	STD SPEC. 9-26.1 (TYPE IV)

4. ALL NON-STAINLESS STEEL PARTS SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M111 AFTER FABRICATION. BOLTS AND HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM F2329.
5. SIZE OF FILLET WELDS SHALL BE ¼" MINIMUM EXCEPT WHERE NOTED OTHERWISE.
6. THE DIMENSIONS SHOWN IN THE PLANS ARE BASED ON CONTRACT RECORDS. THESE DIMENSIONS SHALL BE FIELD MEASURED AND VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION.
7. RESIN BONDED ANCHOR HOLES SHALL NOT BE CORE DRILLED.

LEGEND

B / 15 — IDENTIFIES SECTION OR VIEW
TAKEN OR SHOWN ON BRIDGE SHEET 15

1 / — IDENTIFIES DETAIL
TAKEN OR SHOWN ON THE SAME SHEET

SR 500 FILE NO. ____ SHEET SB1

Bridge Design Engr.	Khaleghi, B	
Supervisor	Zeldenrust, RP	
Designed By	Arana, A	08/22
Checked By	Bedi, G	08/22
Detailed By	DeBoer, J	08/22
Bridge Projects Engr.		
Prelim. Plan By		
Architect/Specialist		

M:\SIGNS & MISC\I-205 MILL PL INTER TO NE18TH ST BUILD INTER - STAGE 2\window files\LAYOUT.wnd

DATE	REVISION	BY	APP'D

REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	WASH.	STP-2051(287) CRRSAA(UL)-0051(318)		

JOB NUMBER 22X332
CONTRACT NO.

P.E. STAMP BOX
DATE

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX
RICHARD P. ZELDENRUST, STATE OF WASHINGTON, 35490, PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN RAMP METERS
FOURTH PLAIN OVER SR 500 BR NO 500/5

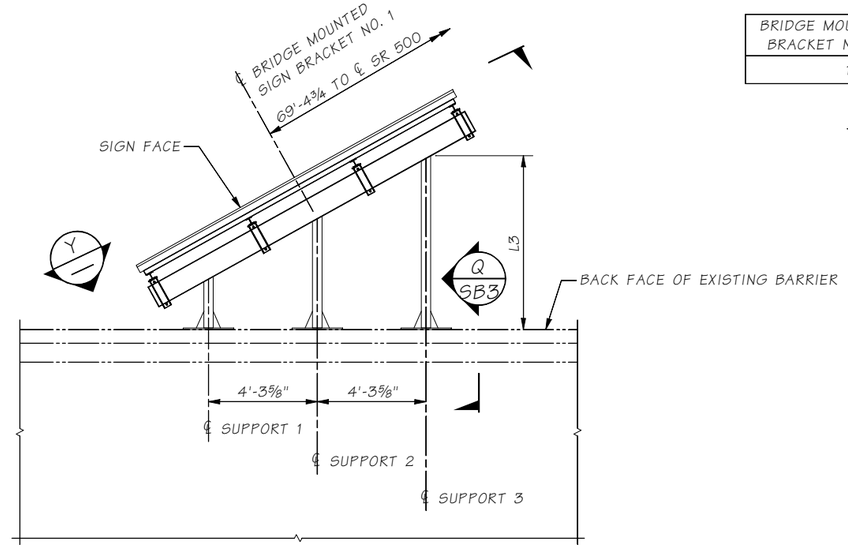
LAYOUT

BRIDGE SHEET NO. SB1
SHEET 137 OF 164 SHEETS

Tue Oct 18 15:18:37 2022

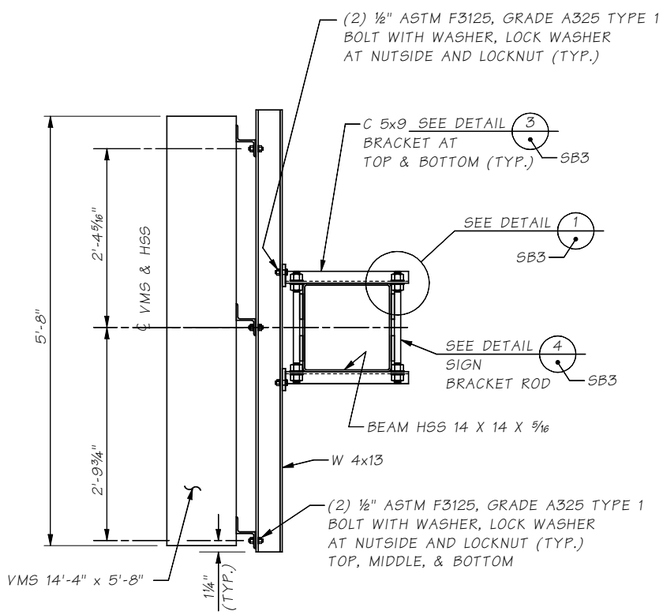
BRIDGE MOUNTED SIGN BRACKET NO. (BMSB)	LEG- L_1	LEG- L_2	LEG- L_3
1	2'-0"	4'-5⅝"	6'-9⅜"

TABLE OF DIMENSIONS

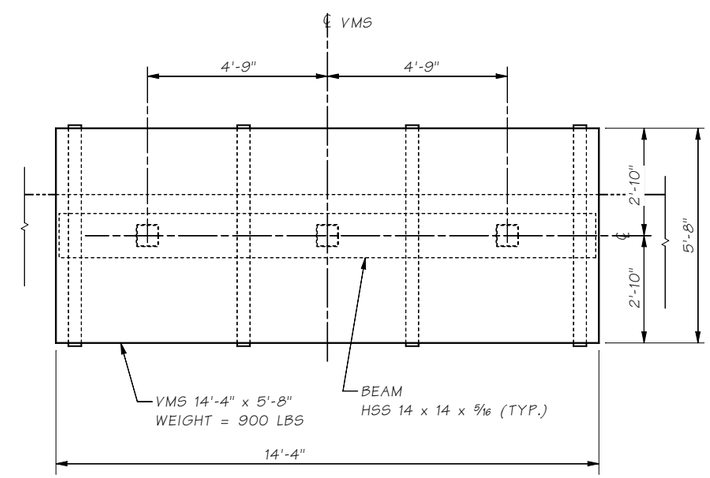


PLAN

BRIDGE MOUNTED SIGN BRACKET NO. 1



VMS INSTALLATION



VIEW Y

Bridge Design Engr.	Khaleghi, B		M:\SIGNS & MISC\I-205 MILL PL INTER TO NE18TH ST BUILD INTER - STAGE 2\window files\GEOMETRY.wnd							
Supervisor	Zeldenrust, RP									
Designed By	Arana, A	08/22								
Checked By	Bedi, G	08/22								
Detailed By	DeBoer, J	08/22								
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist			DATE	REVISION	BY	APP'D				

REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	WASH.	STP-2051(287) CRRSAA(UL)-0051(318)		

JOB NUMBER 22X332

CONTRACT NO.

P.E. STAMP BOX

DATE

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX

RICHARD P. ZELDENRUST, STATE OF WASHINGTON, 25470, PROFESSIONAL ENGINEER

SEE SHEET CT1.

DATE

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN RAMP METERS
FOURTH PLAIN OVER SR 500 BR NO 500/5

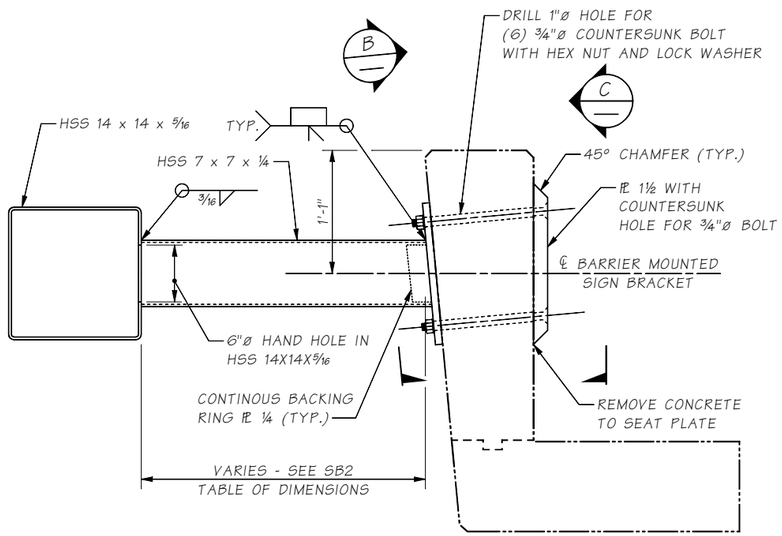
BRIDGE MOUNTED SIGN BRACKET NO.1 - GEOMETRY

BRIDGE SHEET NO. SB2

SHEET 138 OF 164 SHEETS

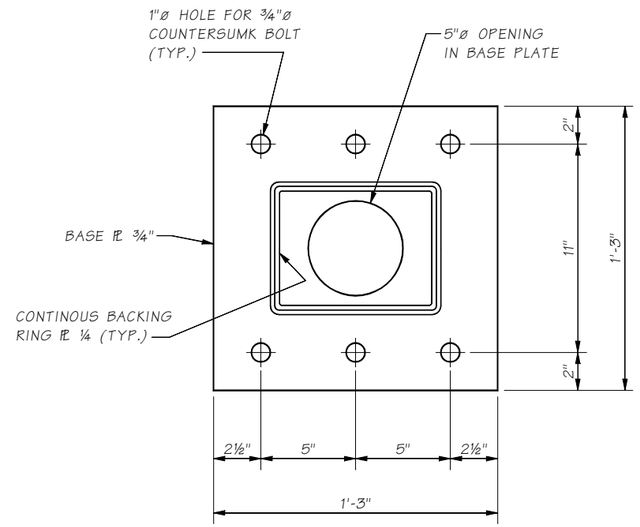
SR 500 SR FILE NO. SHEET SB2

Tue Oct 18 15:18:39 2022

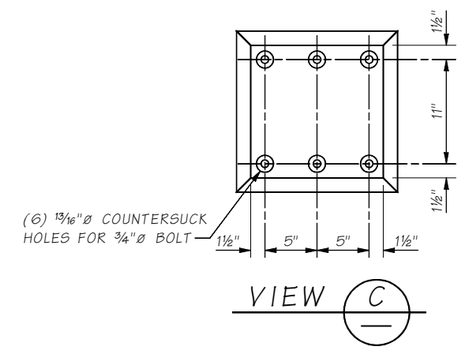


SECTION Q / SB2

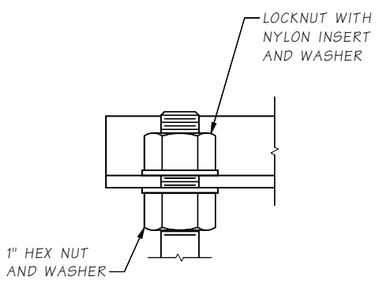
VMS INSTALLATION NOT SHOWN FOR CLARITY.



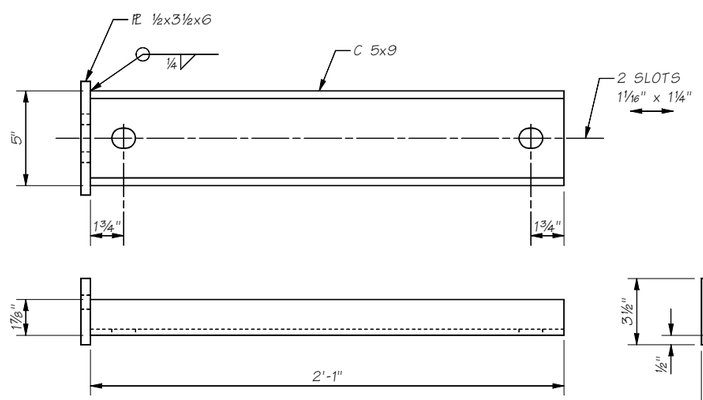
SECTION B / BASE PLATE

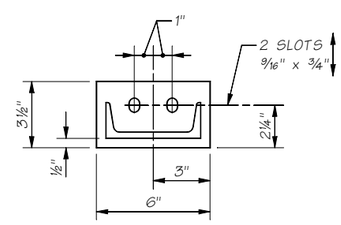


VIEW C

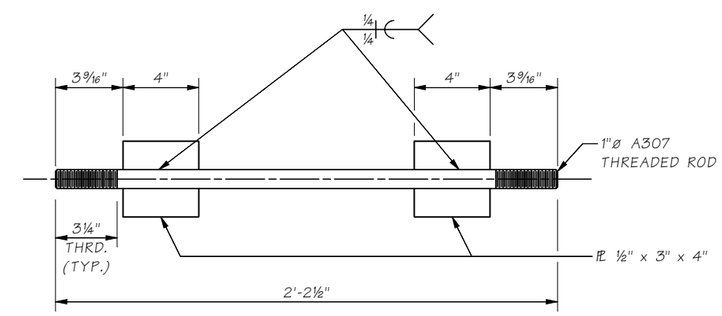


DETAIL 1 / SB2





DETAIL 3 / SB2



DETAIL 4 / SB2

Bridge Design Engr.	Khaleghi, B		M:\SIGNS & MISC\I-205 MILL PL INTER TO NE18TH ST BUILD INTER - STAGE 2\window files\DETAILS.wnd								
Supervisor	Zeldenrust, RP										
Designed By	Arana, A	08/22									
Checked By	Bedi, G	08/22									
Detailed By	DeBoer, J	08/22									
Bridge Projects Engr.											
Prelim. Plan By											
Architect/Specialist			DATE	REVISION	BY	APP'D					

REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	WASH.	STP-2051(287) CRRSAA(UL)-0051(318)		
JOB NUMBER 22X332				
CONTRACT NO.				

P.E. STAMP BOX

DATE

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX

RICHARD P. ZELDENRUST, STATE OF WASHINGTON, 25470, PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN RAMP METERS

FOURTH PLAIN OVER SR 500 BR NO 500/5

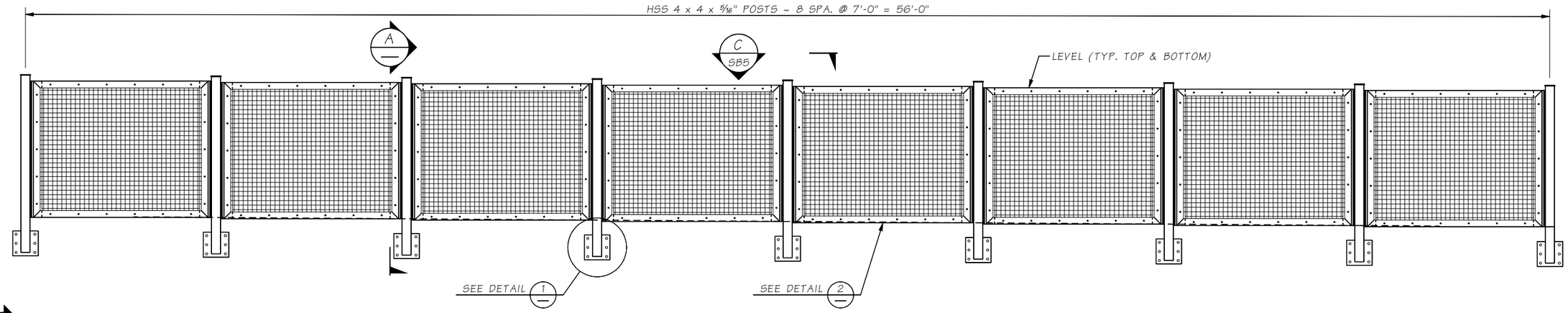
EXISTING SIGN BRIDGE MOUNTING DETAILS

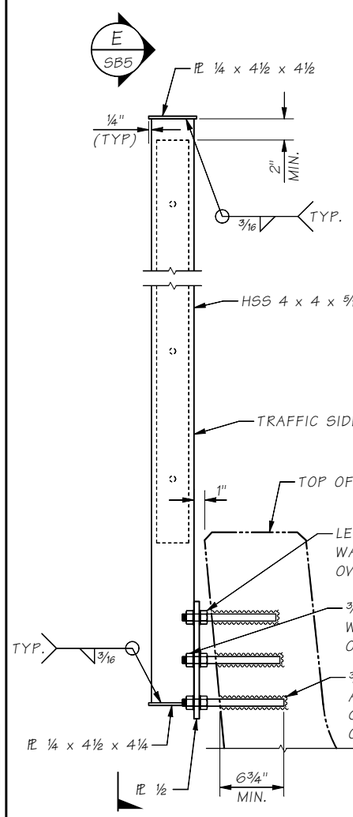
BRIDGE SHEET NO. SB3

SHEET 139 OF 164 SHEETS

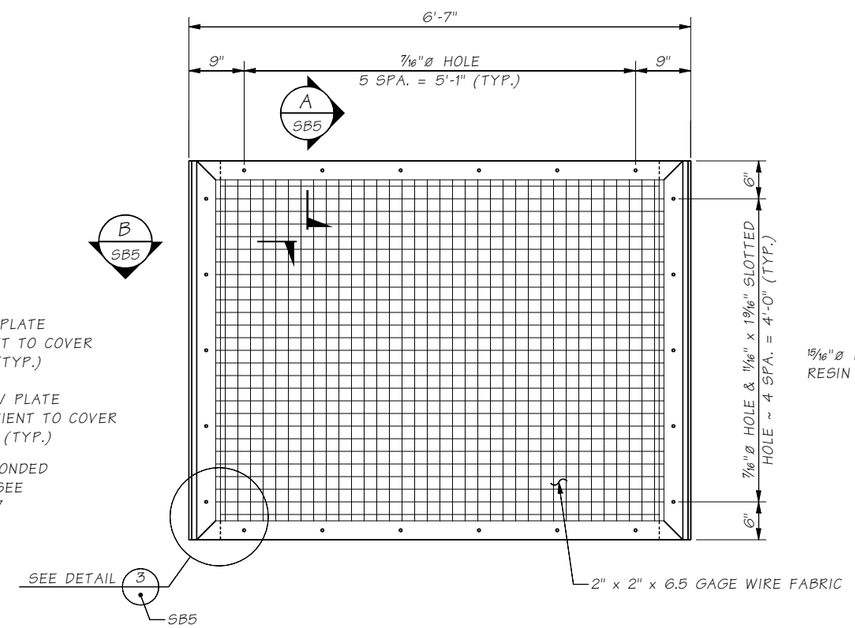
SR 500 FILE NO. ____ SHEET SB3

Tue Oct 18 15:18:41 2022

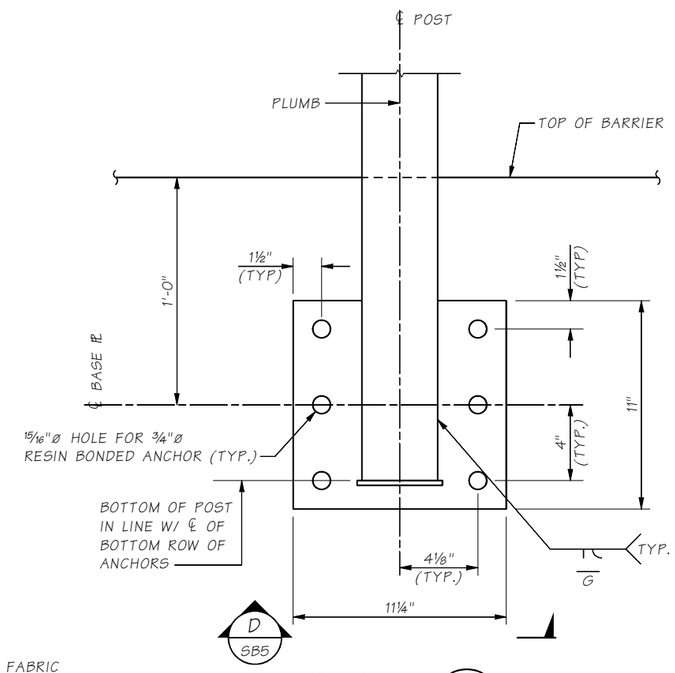




SECTION A



DETAIL 2



DETAIL 1

NOTES:

1. ALL ELEMENTS OF BRIDGE RAILING SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION. ALL ELEMENTS SHALL BE PAINTED IN ACCORDANCE WITH STD. SPEC. SECTION 6-07.3(11) WITH A FINISH COAT COLOR OF FEDERAL STANDARDS 595 - #20045.
2. HSS TUBES FOR POSTS SHALL CONFORM TO ASTM A500 GRADE B OR C.
3. STEEL BARS, PLATES, AND SHAPES SHALL CONFORM TO EITHER ASTM A36, ASTM A572, OR ASTM A992.
4. THE RAILING ASSEMBLY SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M 111, AASHTO M 232, OR ASTM F2329 AS APPLICABLE.

Bridge Design Engr.	Khaleghi, B				
Supervisor	Zeldenrust, RP				
Designed By	Bondy, T	10/22			
Checked By	Zeldenrust, RP	10/22			
Detailed By	DeBoer, J	10/22			
Bridge Projects Engr.					
Prelim. Plan By					
Architect/Specialist					

DATE	REVISION	BY	APP'D

M:\SIGNS & MISC\I-205 MILL PL INTER TO NE18TH ST BUILD INTER - STAGE 2\window files\WIRE FENCE DET 1.wnd

REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	WASH.	STP-2051(287) CRRSAA(UL)-0051(318)		

JOB NUMBER 22X332

CONTRACT NO.

P.E. STAMP BOX

DATE

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX

RICHARD P. ZELDENRUST STATE OF WASHINGTON 25470 PROFESSIONAL ENGINEER STRUCTURAL ENGINEER

SEE SHEET CT1

DATE

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP I-205/SB 134TH ST TO MILL PLAIN RAMP METERS

FOURTH PLAIN OVER SR 500 BR NO 500/5

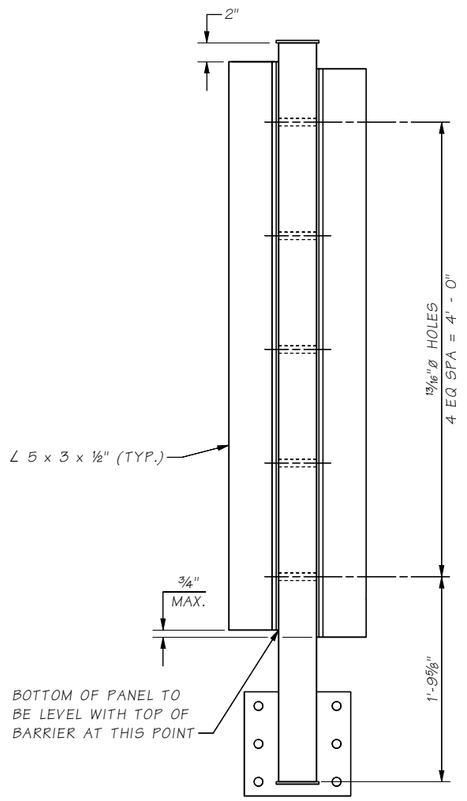
BRIDGE RAILING TYPE WIRE FABRIC FENCE DETAILS 1 OF 2

BRIDGE SHEET NO. SB4

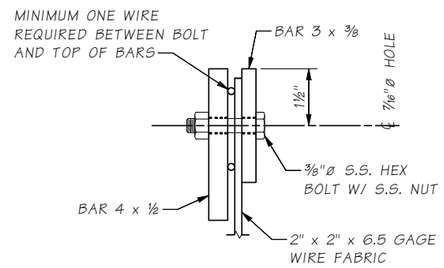
SHEET 140 OF 164 SHEETS

SR 500 FILE NO. SHEET SB4

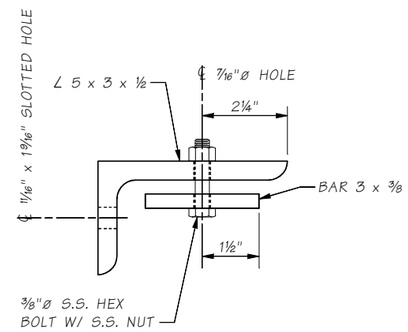
Tue Oct 18 15:18:42 2022



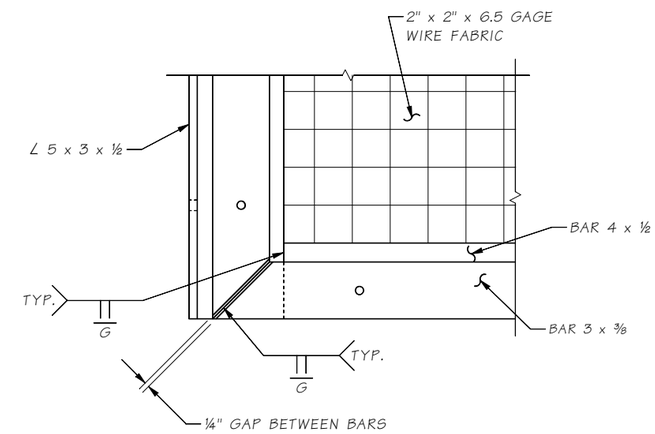
SECTION E
SB4



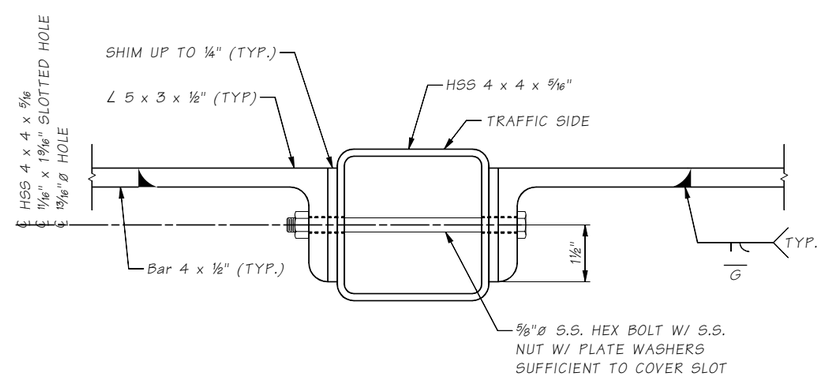
SECTION A
SB4



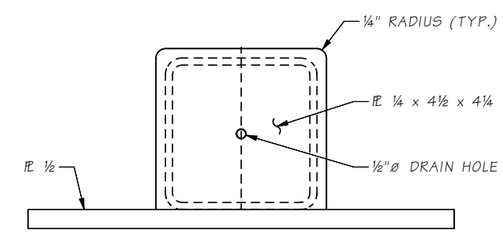
SECTION B
SB4
POST NOT SHOWN
FOR CLARITY



DETAIL 3
SB4



SECTION C
SB4
WIRE FABRIC AND
BAR 3 x ⅜" NOT
SHOWN FOR CLARITY



SECTION D
SB4

SR SR 500 FILE NO. ____ SHEET SB5

Bridge Design Engr.	Khaleghi, B		M:\SIGNS & MISC\I-205 MILL PL INTER TO NE18TH ST BUILD INTER - STAGE 2\window files\WIRE FENCE DET 2.wnd								
Supervisor	Zeldenrust, RP										
Designed By	Bondy, T	10/22					REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Checked By	Zeldenrust, RP	10/22					10	WASH.	STP-2051(287) CRRSAA(UL)-0051(318)		
Detailed By	DeBoer, J	10/22					JOB NUMBER 22X332				
Bridge Projects Engr.											
Prelim. Plan By							CONTRACT NO.				
Architect/Specialist			DATE	REVISION	BY	APP'D					

P.E. STAMP BOX
DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX
RICHARD P. ZELDENRUST
STATE OF WASHINGTON
25470
PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE:

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS
FOURTH PLAIN OVER SR 500 BR NO 500/5

BRIDGE RAILING TYPE
WIRE FABRIC FENCE DETAILS 2 OF 2

BRIDGE SHEET NO. SB5
SHEET 141 OF 164 SHEETS

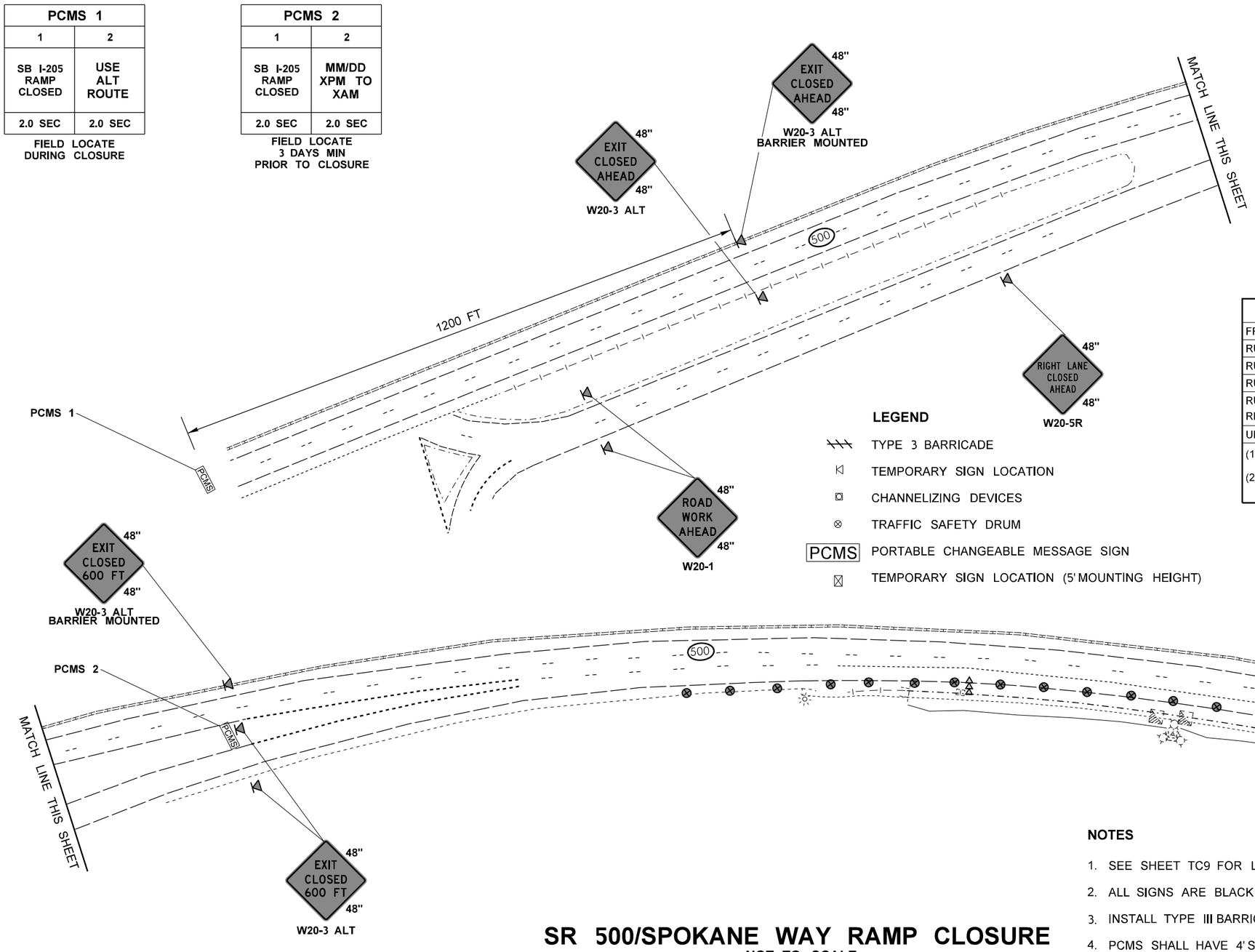
Tue Oct 18 15:18:44 2022

PCMS 1	
1	2
SB I-205 RAMP CLOSED	USE ALT ROUTE
2.0 SEC	2.0 SEC

FIELD LOCATE DURING CLOSURE

PCMS 2	
1	2
SB I-205 RAMP CLOSED	MM/DD XPM TO XAM
2.0 SEC	2.0 SEC

FIELD LOCATE 3 DAYS MIN PRIOR TO CLOSURE



LEGEND

- TYPE 3 BARRICADE
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- TRAFFIC SAFETY DRUM
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS RESIDENTAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

NOTES

1. SEE SHEET TC9 FOR LEFT TURN LANE CLOSURE DETAILS
2. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
3. INSTALL TYPE III BARRICADES PER STD. PLAN K-8.20
4. PCMS SHALL HAVE 4' SPACING ON EITHER SIDE IN GORE

SR 500/SPOKANE WAY RAMP CLOSURE

NOT TO SCALE

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_TC.dgn
TIME	8:20:35 AM
DATE	11/2/2022
PLOTTED BY	fuestm
DESIGNED BY	M. FUEST
ENTERED BY	M. FUEST
CHECKED BY	R. SMITH
PROJ. ENGR.	M. HARWOOD
REGIONAL ADM.	C. FRANCIS

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. STP-2051(287) CRRSAA(UL)-0051(318)

JOB NUMBER 22X332

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE | P.E. STAMP BOX DATE

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

TRAFFIC CONTROL

Plot 1

PLAN REF NO TC1

SHEET 142 OF 164 SHEETS

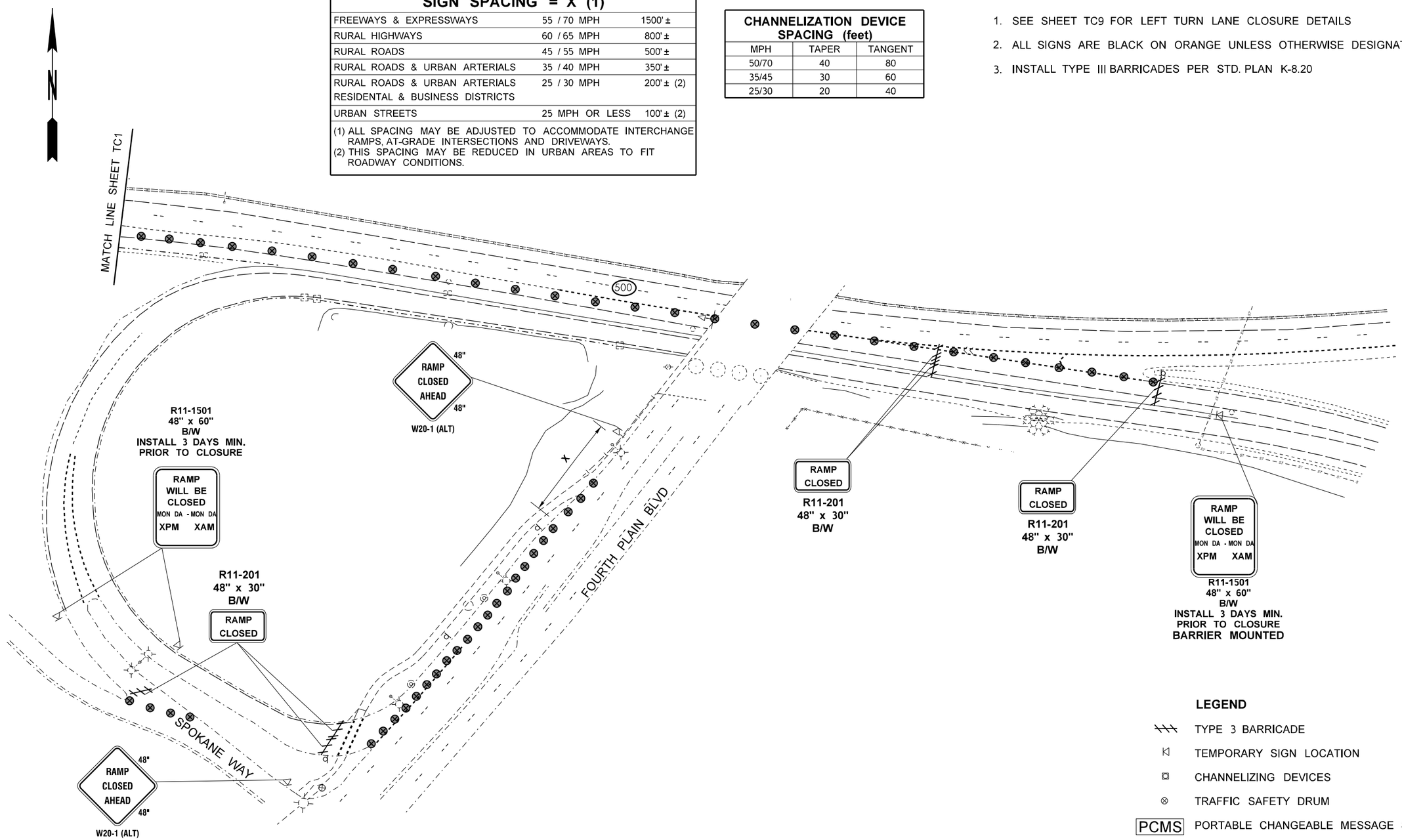
SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS RESIDENTAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

NOTES

1. SEE SHEET TC9 FOR LEFT TURN LANE CLOSURE DETAILS
2. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
3. INSTALL TYPE III BARRICADES PER STD. PLAN K-8.20



LEGEND

- TYPE 3 BARRICADE
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- TRAFFIC SAFETY DRUM
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

SR 500/SPOKANE WAY RAMP CLOSURE

NOT TO SCALE

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_TC.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287) CRRSAA(UL)-0051(318)
TIME	8:20:37 AM				JOB NUMBER 22X332		
DATE	11/2/2022				CONTRACT NO.		LOCATION NO.
PLOTTED BY	fuestm						
DESIGNED BY	M. FUEST						
ENTERED BY	M. FUEST						
CHECKED BY	R. SMITH						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

TRAFFIC CONTROL

Plot 2

PLAN REF NO TC2

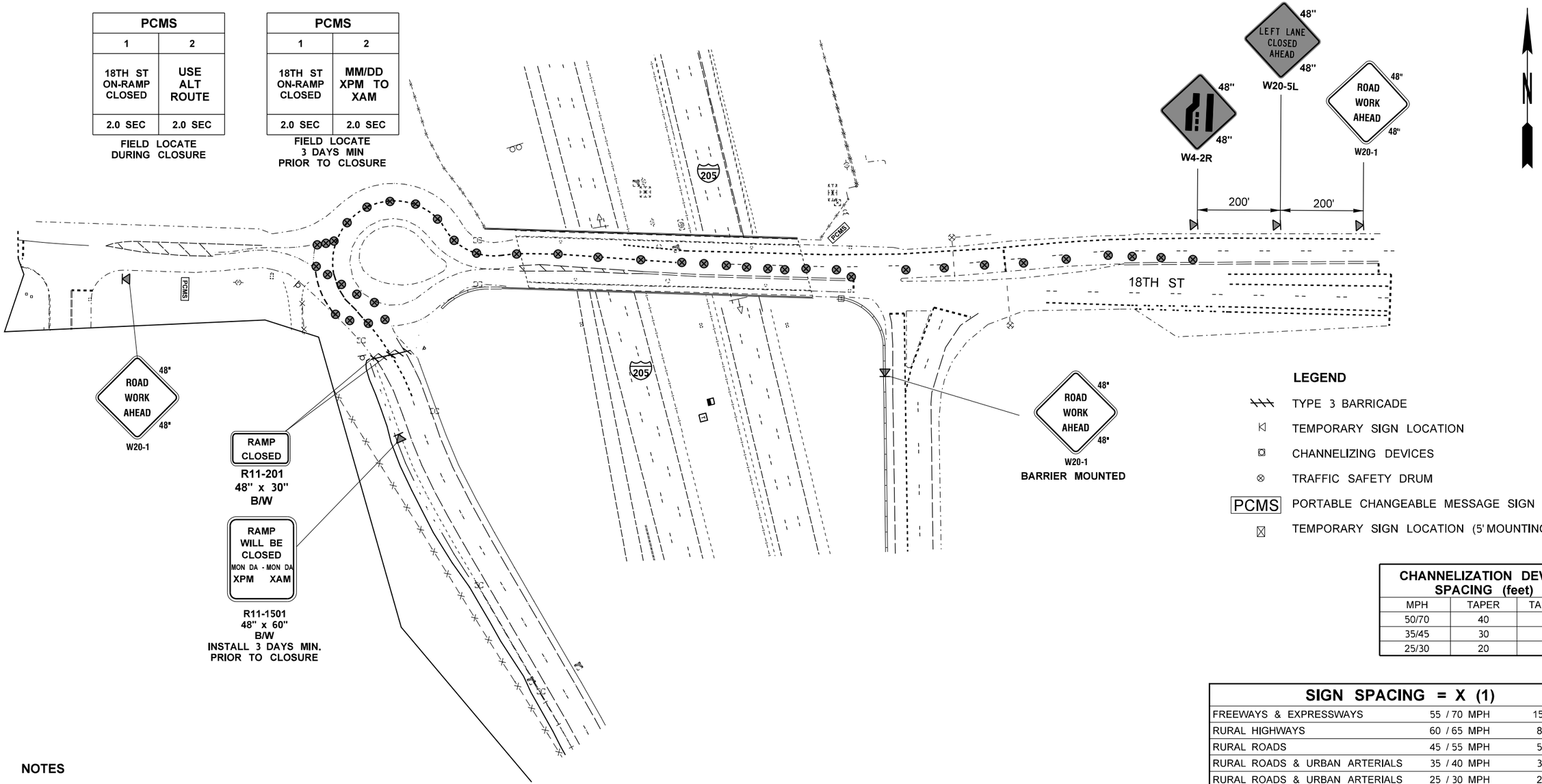
SHEET 143 OF 164 SHEETS

PCMS	
1	2
18TH ST ON-RAMP CLOSED	USE ALT ROUTE
2.0 SEC	2.0 SEC

FIELD LOCATE DURING CLOSURE

PCMS	
1	2
18TH ST ON-RAMP CLOSED	MM/DD XPM TO XAM
2.0 SEC	2.0 SEC

FIELD LOCATE 3 DAYS MIN PRIOR TO CLOSURE



LEGEND

- TYPE 3 BARRICADE
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- TRAFFIC SAFETY DRUM
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS RESIDENTAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

NOTES

1. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
2. INSTALL TYPE III BARRICADES PER STD. PLAN K-8.20

18TH ST RAMP CLOSURE

NOT TO SCALE

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_TC.dgn
TIME	8:20:40 AM
DATE	11/2/2022
PLOTTED BY	fuestm
DESIGNED BY	M. FUEST
ENTERED BY	M. FUEST
CHECKED BY	R. SMITH
PROJ. ENGR.	M. HARWOOD
REGIONAL ADM.	C. FRANCIS

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. STP-2051(287) CRRSAA(UL)-0051(318)

JOB NUMBER 22X332

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

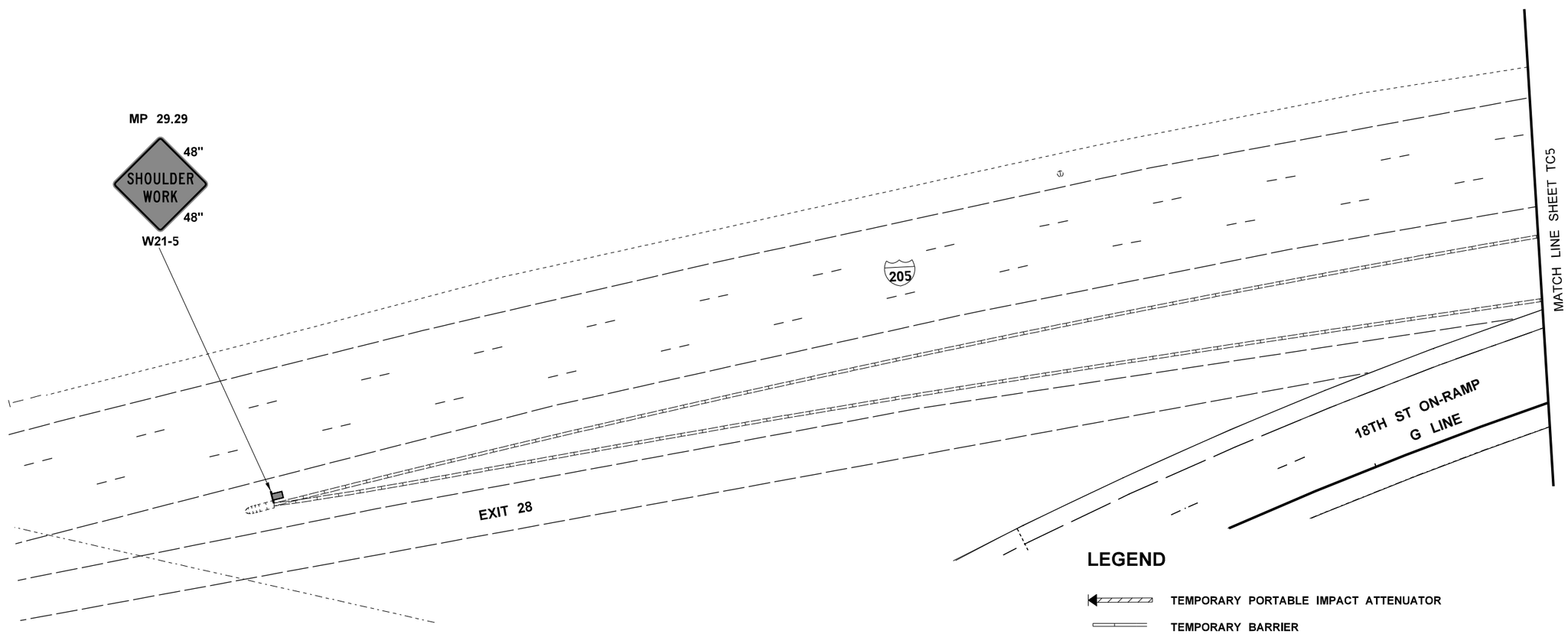
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

TRAFFIC CONTROL

Plot 3

PLAN REF NO TC3

SHEET 144 OF 164 SHEETS



LEGEND

- TEMPORARY PORTABLE IMPACT ATTENUATOR
- TEMPORARY BARRIER
- 5' SIGN MOUNT
- TEMPORARY EDGE LIKE (YELLOW)
- TEMPORARY EDGE LINE (WHITE)

* FOR ITEMS NOT SHOWN ON THIS LEGEND REFER TO PLAN SHEET CN1.

0 20 40
SCALE IN FEET

NOTES

1. ALL ITEMS SHOWN ON THIS SHEET SHALL BE INCIDENTAL TO THE LUMP SUM BID ITEM FOR TEMPORARY TRAFFIC CONTROL.
2. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED

18TH ST RAMP

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ST.dgn			
TIME	8:22:34 AM			
DATE	11/2/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	K. WACHTER			
CHECKED BY	R. SMITH			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCES	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287) CRRSAA(UL)-0051(318)
JOB NUMBER 22X332		
CONTRACT NO.		LOCATION NO.

DATE
P.E. STAMP BOX

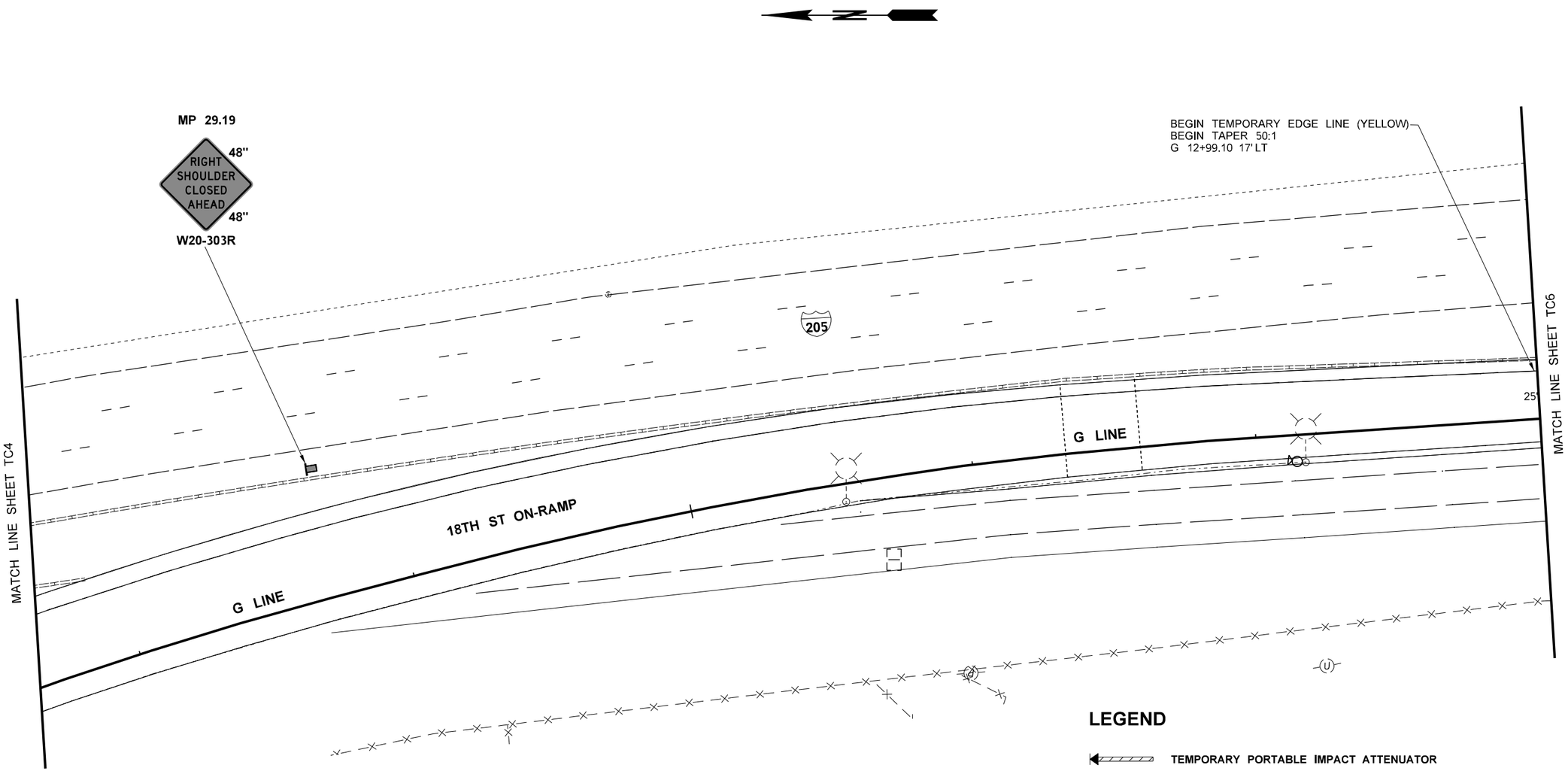
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

TRAFFIC CONTROL

Plot 1
PLAN REF NO
TC4
SHEET 145 OF 164 SHEETS



LEGEND

- TEMPORARY PORTABLE IMPACT ATTENUATOR
- TEMPORARY BARRIER
- 5' SIGN MOUNT
- TEMPORARY EDGE LIKE (YELLOW)
- TEMPORARY EDGE LINE (WHITE)

* FOR ITEMS NOT SHOWN ON THIS LEGEND REFER TO PLAN SHEET CN1.

0 20 40
SCALE IN FEET

18TH ST RAMP

NOTES

1. ALL ITEMS SHOWN ON THIS SHEET SHALL BE INCIDENTAL TO THE LUMP SUM BID ITEM FOR TEMPORARY TRAFFIC CONTROL.
2. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ST.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287) CRRSAA(UL)-0051(318)
TIME	8:22:36 AM						
DATE	11/2/2022						
PLOTTED BY	fuestm						
DESIGNED BY	M. FUEST				JOB NUMBER 22X332		
ENTERED BY	K. WACHTER						
CHECKED BY	R. SMITH				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

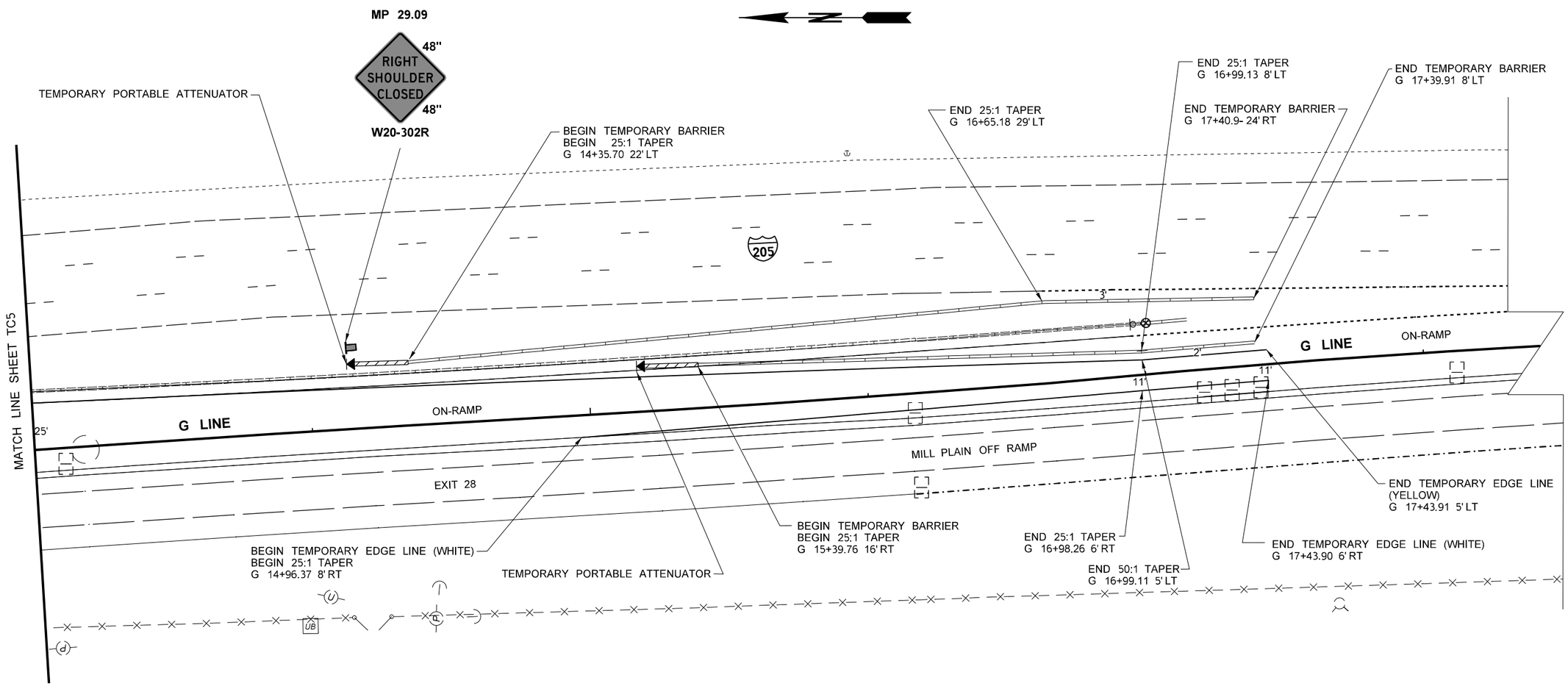
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

TRAFFIC CONTROL

Plot 2

PLAN REF NO TC5

SHEET 146 OF 164 SHEETS



NOTES

1. ALL ITEMS SHOWN ON THIS SHEET SHALL BE INCIDENTAL TO THE LUMP SUM BID ITEM FOR TEMPORARY TRAFFIC CONTROL.
2. THE CONTRACTOR SHALL INSTALL BARRIER DELINEATORS ON THE TEMPORARY BARRIER PER STANDARD PLAN M-40.10-03
3. TEMPORARY EDGE LINE AND BARRIER SHALL BE REMOVED UPON COMPLETION AND PROCUREMENT OF THE CAST IN PLACE BARRIER/ RAMP METER FOUNDATION. ALL REMOVAL SHALL BE INCIDENTAL TO THE LUMP SUM BID ITEM FOR TEMPOARY TRAFFIC CONTROL.
4. EXISTING STRIPING THAT CONFLICT WITH THE TEMPORARY EDGE LINE SHALL BE TEMPORARY BLACKED OUT OR REMOVED.
5. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED

0 20 40
SCALE IN FEET

18TH ST RAMP

LEGEND

- TEMPORARY PORTABLE IMPACT ATTENUATOR
- TEMPORARY BARRIER
- 5' SIGN MOUNT
- TEMPORARY EDGE LIKE (YELLOW)
- TEMPORARY EDGE LINE (WHITE)

* FOR ITEMS NOT SHOWN ON THIS LEGEND REFER TO PLAN SHEET CN1.

FILE NAME	G:\Trafflc\ITS\04 - Design\Actlve Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ST.dgn						
TIME	8:22:37 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287) CRRSAA(UL)-0051(318)
DATE	11/2/2022						
PLOTTED BY	fuestm				JOB NUMBER 22X332		
DESIGNED BY	M. FUEST						
ENTERED BY	K. WACHTER				CONTRACT NO.		LOCATION NO.
CHECKED BY	R. SMITH						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

TRAFFIC CONTROL

Plot 3

PLAN REF NO TC6

SHEET 147 OF 164 SHEETS

PCMS	
1	2
SB I-205 RAMP CLOSED	USE ALT ROUTE
2.0 SEC	2.0 SEC

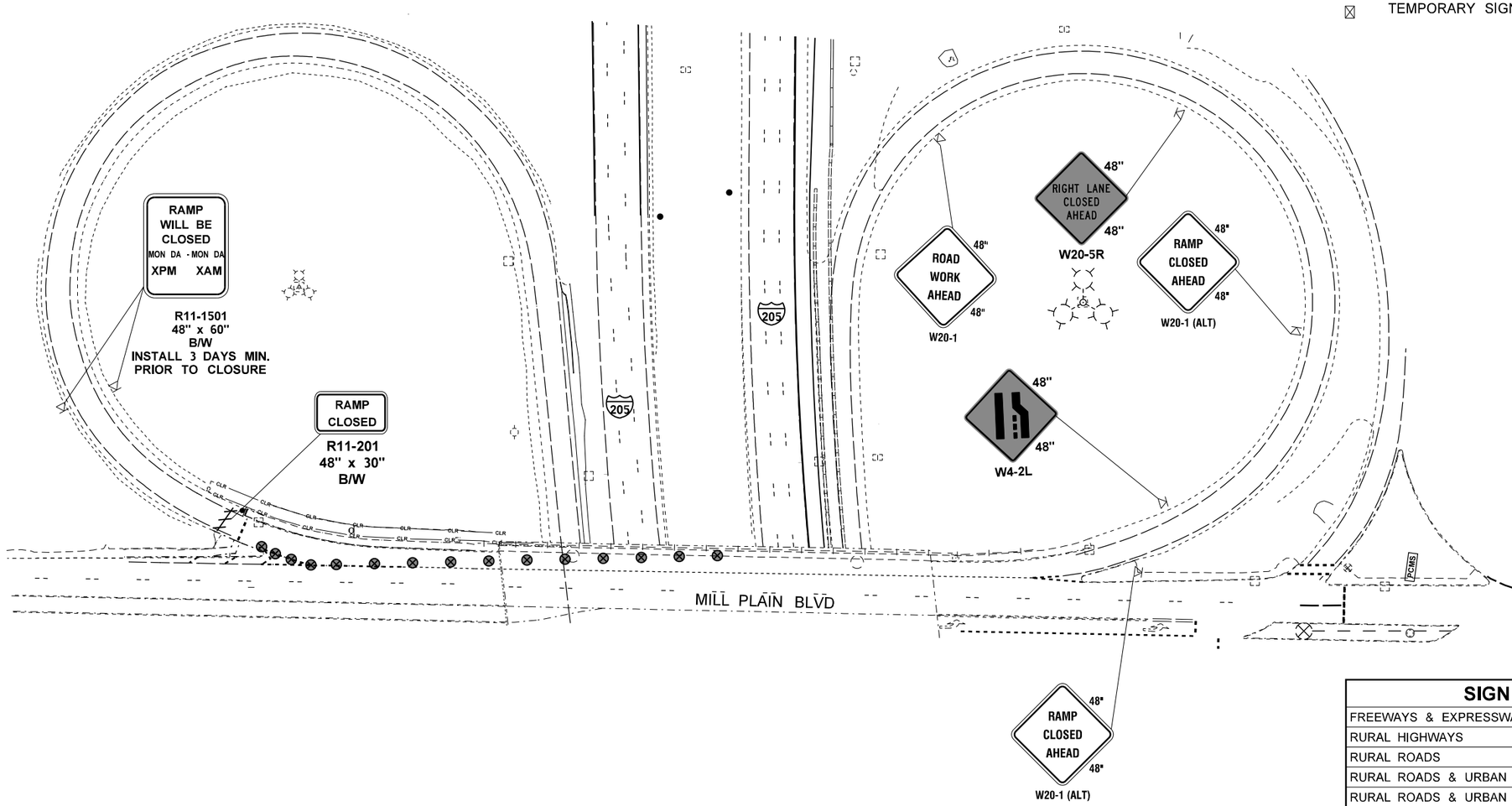
FIELD LOCATE DURING CLOSURE

PCMS	
1	2
SB I-205 RAMP CLOSED	MM/DD XPM TO XAM
2.0 SEC	2.0 SEC

FIELD LOCATE 3 DAYS MIN PRIOR TO CLOSURE

LEGEND

- TYPE 3 BARRICADE
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- TRAFFIC SAFETY DRUM
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)



CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS RESIDENTAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

NOTES

1. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
2. INSTALL TYPE III BARRICADES PER STD. PLAN K-8.20

WB MILL PLAIN BVLD RAMP CLOSURE

NOT TO SCALE

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_TC.dgn						
TIME	8:20:42 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287) CRRSAA(UL)-0051(318)
DATE	11/2/2022						
PLOTTED BY	fuestm						
DESIGNED BY	M. FUEST				JOB NUMBER 22X332		
ENTERED BY	M. FUEST						
CHECKED BY	R. SMITH				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

TRAFFIC CONTROL

Plot 4

PLAN REF NO TC7

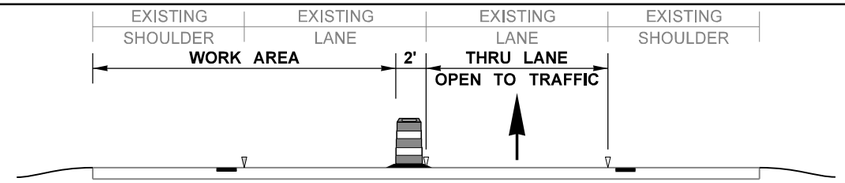
SHEET 148 OF 164 SHEETS

PCMS		
1	2	3
LEFT LANE CLOSURE	1.5 MILES AHEAD	SLOW TRAFFIC AHEAD
1.5 SEC	1.5 SEC	1.5 SEC

FIELD LOCATE 1.5 +/- MILES PRIOR TO FIRST LANE CLOSURE TAPER.

REMOVE PHASE 3 WHEN TRAFFIC QUEUES NO LONGER PRESENT. INCREASE DISPLAY TO 2.0 SEC.

LOCATE PCMS PER WSDOT STANDARD SPEC. 1-10.3(3)C.



SECTION A-A

SHOULDER CLOSURE TAPER LENGTH = L/3								
SHOULDER WIDTH	SPEED (MPH)	45	50	55	60	65	70	75
6'	L/3 (feet)	90	120	120	120	160	160	160
10'		150	200	200	200	240	240	280
FOR SHOULDERS LESS THAN 6', USE 3 DEVICES MINIMUM								

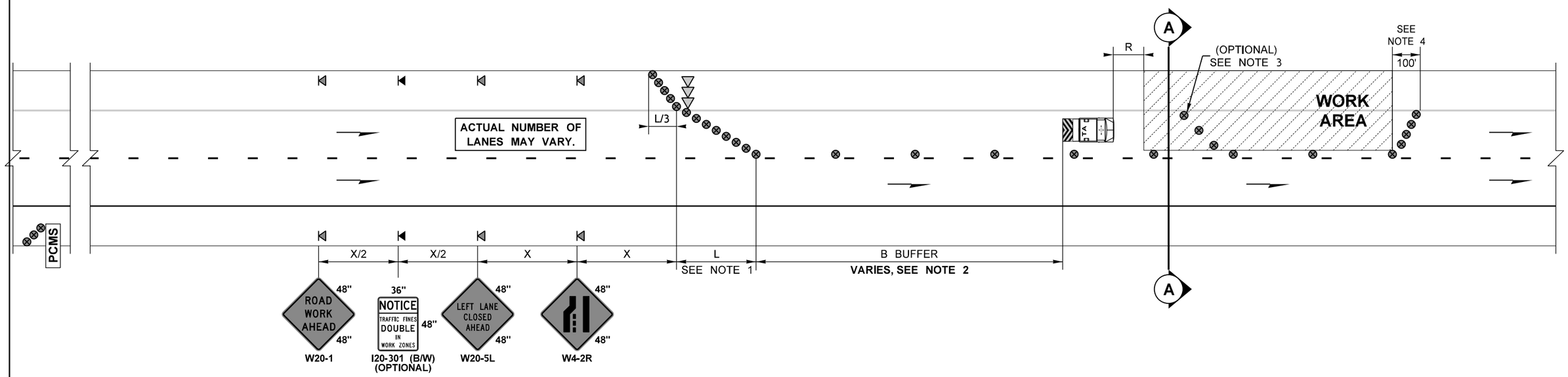
MINIMUM LANE CLOSURE TAPER LENGTH = L								
LANE WIDTH	SPEED (MPH)	45	50	55	60	65	70	75
12'	L (feet)	540	600	680	720	800	840	920

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	45-75 MPH	1500' +/-
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS.		

LONGITUDINAL BUFFER SPACE = B							
SPEED (MPH)	45	50	55	60	65	70	75
B (feet)	360	425	495	570	645	730	820

STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R			
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.		HOST VEHICLE WEIGHT 22,001+ lbs.	
45-55 MPH	60+ MPH	45-55 MPH	60+ MPH
123'	172'	100'	150'

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-75	40	80
45	30	60



LEGEND:

- TEMPORARY SIGN LOCATION
- TEMPORARY SIGN LOCATION (5' MIN HEIGHT)
- TRAFFIC SAFETY DRUM
- RADAR SPEED DISPLAY SIGN (RSDS)
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN

NOTES:

1. IF FEASIBLE, AVOID PLACING LANE CLOSURE OR LANE SHIFT TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL CURVES.
2. DISTANCE INCREASES AS WORK AREA MOVES DOWNSTREAM.
3. IF USED, PLACE DEVICES TRANSVERSELY ACROSS CLOSED LANES AT 45° +/- AND 5' SPACING AT STRATEGIC LOCATIONS.
4. DOWNSTREAM TAPER OPTIONAL ACROSS LEFT LANE. DOWNSTREAM TAPER DEVICE SPACING IS 20'.
5. ADD "TRUCKS LEAVING HIGHWAY" AND "TRUCKS ENTERING HIGHWAY" (W21-30, 48"x48", 5' HEIGHT) SIGNS 500' +/- PRIOR TO WHERE CONSTRUCTION VEHICLES FREQUENTLY EXIT AND ENTER INTO THE OPEN LANE(S).
6. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
7. PLAN IS APPLICABLE TO LANE CLOSURES OF 3 DAYS OR LESS.

FREEWAY SINGLE LEFT LANE CLOSURE

NOT TO SCALE

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_TC.dgn			
TIME	10:19:23 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	R. SMITH			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287) CRRSAA(UL)-0051(318)
JOB NUMBER 22X332		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

TRAFFIC CONTROL

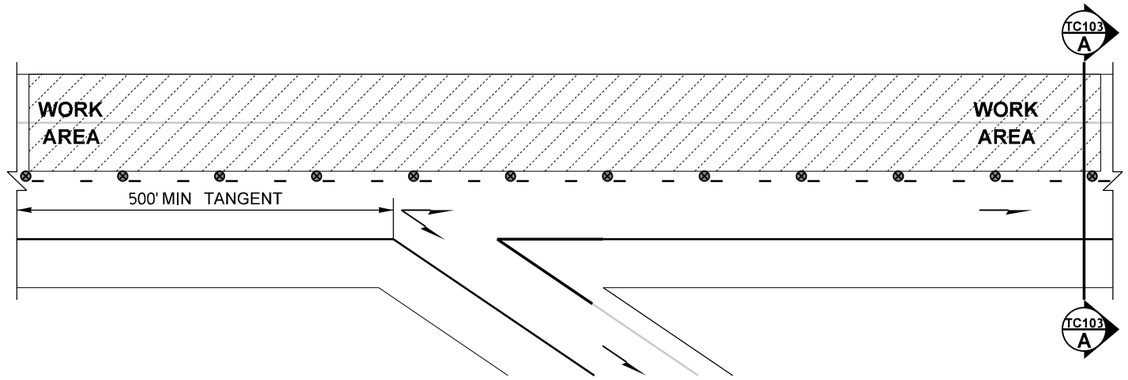
Plot 5

PLAN REF NO TC8

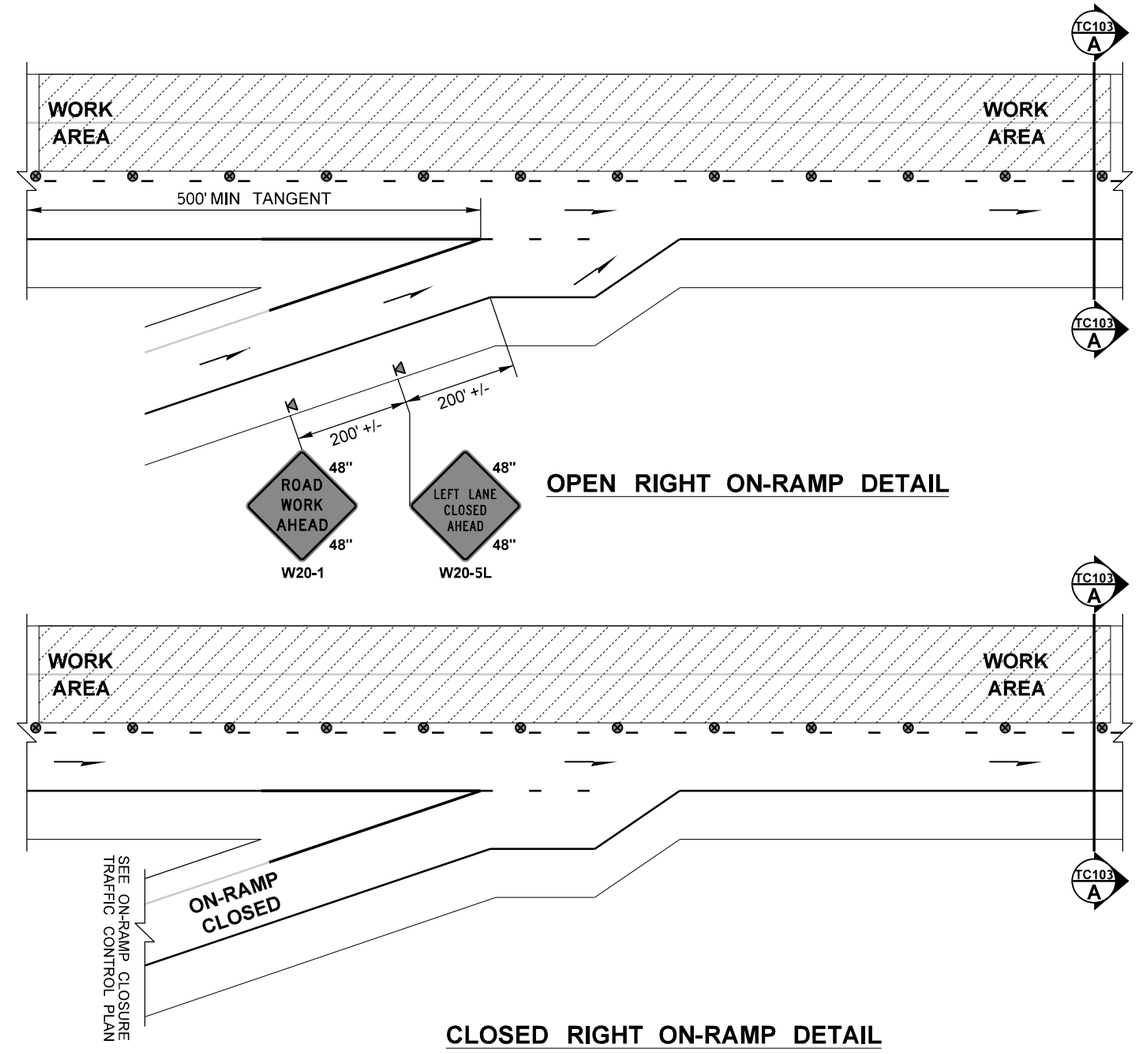
SHEET 149 OF 164 SHEETS

NOTES:

1. FOR LEGEND, TABLES, AND ADDITIONAL NOTES: SEE TC103, SHEET 0B, 1A, OR 1B.
2. SEE DETOUR PLAN FOR ADDITIONAL RAMP CLOSURE DETOUR SIGNAGE.



OPEN RIGHT EXIT-RAMP DETAIL



OPEN RIGHT ON-RAMP DETAIL

CLOSED RIGHT EXIT-RAMP DETAIL

RIGHT EXIT-RAMPS ARE TO REMAIN OPEN

CLOSED RIGHT ON-RAMP DETAIL

FREEWAY SINGLE LEFT LANE CLOSURE

NOT TO SCALE

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_TC.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287) CRRSAA(UL)-0051(318)
TIME	9:37:30 AM				JOB NUMBER 22X332		
DATE	11/1/2022				CONTRACT NO.		LOCATION NO.
PLOTTED BY	fuestm						
DESIGNED BY	M. FUEST						
ENTERED BY	M. FUEST						
CHECKED BY	R. SMITH						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

TRAFFIC CONTROL

Plot 6

PLAN REF NO TC9

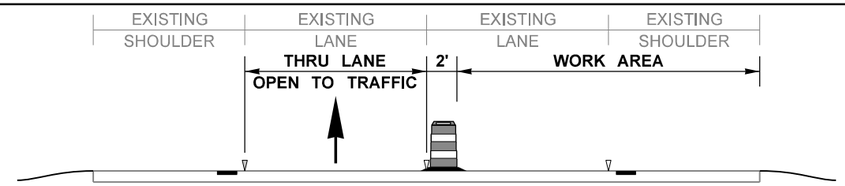
SHEET 150 OF 164 SHEETS

PCMS		
1	2	3
RIGHT LANE CLOSURE	1.5 MILES AHEAD	SLOW TRAFFIC AHEAD
1.5 SEC	1.5 SEC	1.5 SEC

FIELD LOCATE 1.5 +/- MILES PRIOR TO FIRST LANE CLOSURE TAPER.

REMOVE PHASE 3 WHEN TRAFFIC QUEUES NO LONGER PRESENT. INCREASE DISPLAY TO 2.0 SEC.

LOCATE PCMS PER WSDOT STANDARD SPEC. 1-10.3(3)C.



SECTION A-A

SHOULDER CLOSURE TAPER LENGTH = L/3								
SHOULDER WIDTH	SPEED (MPH)	45	50	55	60	65	70	75
6'	L/3 (feet)	90	120	120	120	160	160	160
10'		150	200	200	200	240	240	280
FOR SHOULDERS LESS THAN 6', USE 3 DEVICES MINIMUM								

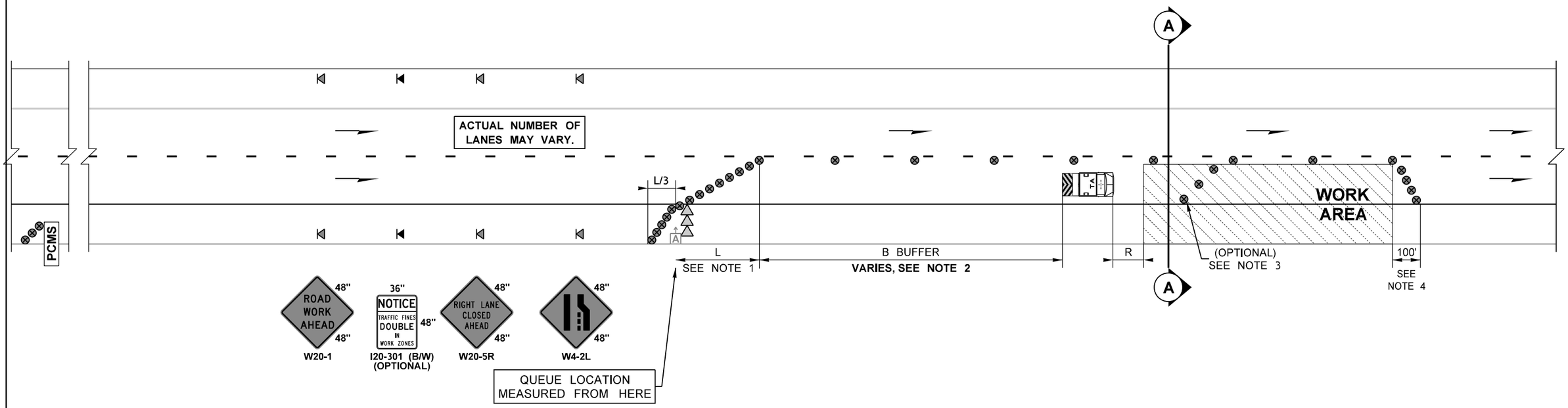
MINIMUM LANE CLOSURE TAPER LENGTH = L								
LANE WIDTH	SPEED (MPH)	45	50	55	60	65	70	75
12'	L (feet)	540	600	680	720	800	840	920

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	45-75 MPH	1500' +/-
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS.		

LONGITUDINAL BUFFER SPACE = B							
SPEED (MPH)	45	50	55	60	65	70	75
B (feet)	360	425	495	570	645	730	820

STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R			
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.		HOST VEHICLE WEIGHT 22,001+ lbs.	
45-55 MPH	60+ MPH	45-55 MPH	60+ MPH
123'	172'	100'	150'

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-75	40	80
45	30	60



NOTES:

1. IF FEASIBLE, AVOID PLACING LANE CLOSURE OR LANE SHIFT TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL CURVES.
2. DISTANCE INCREASES AS WORK AREA MOVES DOWNSTREAM.
3. IF USED, PLACE DEVICES TRANSVERSELY ACROSS CLOSED LANES AT 45° +/- AND 5' SPACING AT STRATEGIC LOCATIONS.
4. DOWNSTREAM TAPER OPTIONAL ACROSS RIGHT LANE. DOWNSTREAM TAPER DEVICE SPACING IS 20'.
5. ADD "TRUCKS LEAVING HIGHWAY" AND "TRUCKS ENTERING HIGHWAY" (W21-30, 48"x48", 5' HEIGHT) SIGNS 500' +/- PRIOR TO WHERE CONSTRUCTION VEHICLES FREQUENTLY EXIT AND ENTER INTO THE OPEN LANE(S).
6. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
7. PLAN IS APPLICABLE TO LANE CLOSURES OF 3 DAYS OR LESS.

LEGEND:

- TEMPORARY SIGN LOCATION
- TEMPORARY SIGN LOCATION (5' MIN HEIGHT)
- TRAFFIC SAFETY DRUM
- RADAR SPEED DISPLAY SIGN (RSDS)
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN

FREEWAY SINGLE RIGHT LANE CLOSURE

NOT TO SCALE

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_TC.dgn						
TIME	9:37:31 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287) CRRSAA(UL)-0051(318)
DATE	11/1/2022						
PLOTTED BY	fuestm				JOB NUMBER 22X332		
DESIGNED BY	M. FUEST						
ENTERED BY	M. FUEST						
CHECKED BY	R. SMITH				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

TRAFFIC CONTROL

Plot 7

PLAN REF NO TC10

SHEET 151 OF 164 SHEETS

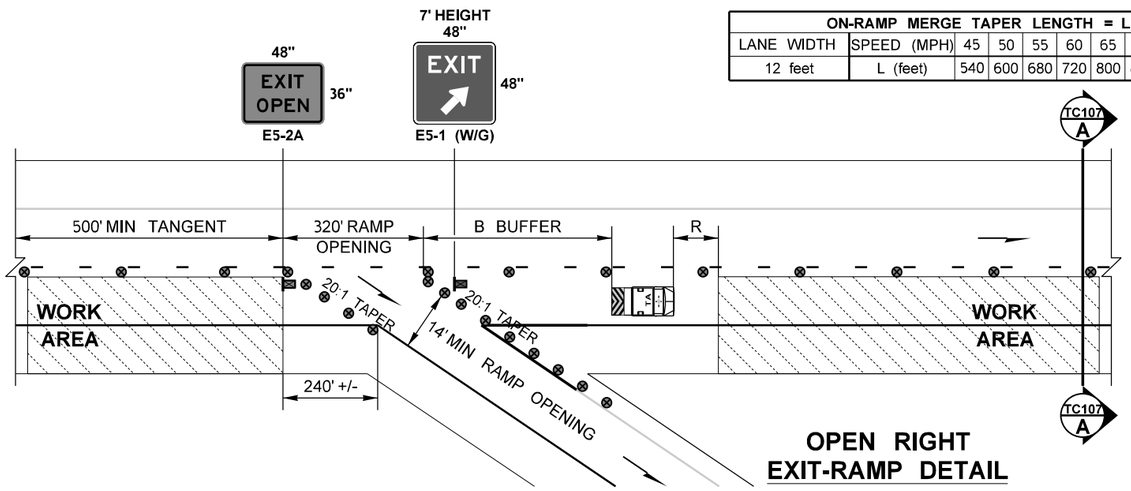
NOTES:

1. FOR LEGEND, TABLES, AND ADDITIONAL NOTES: SEE TC6

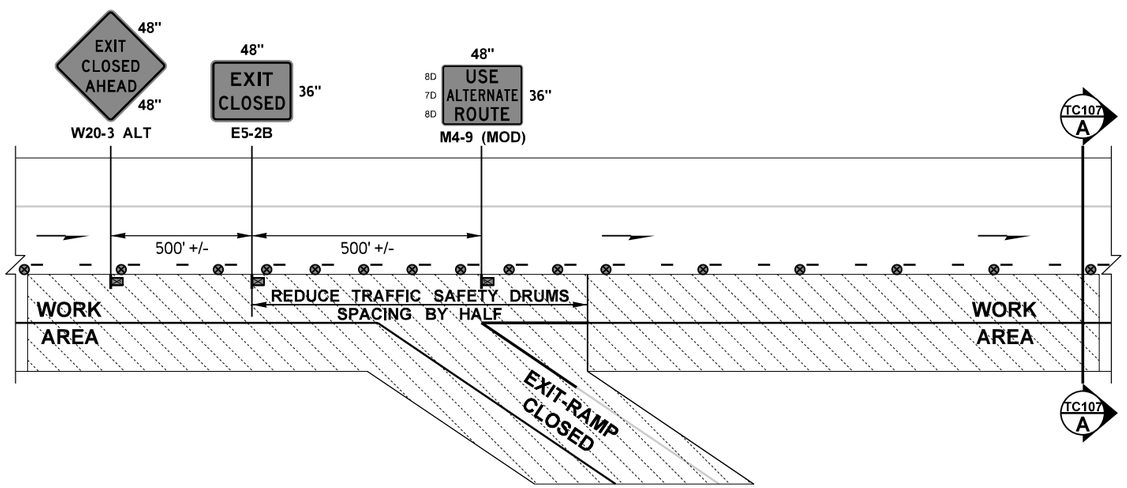
ON-RAMP SHIFT TAPER LENGTH = L/2								
RAMP SHIFT	SPEED (MPH)	45	50	55	60	65	70	75
1 Lane @ 12'	L/2 (feet)	270	320	360	360	400	440	480

MIN. ON-RAMP ACCELERATION TANGENT LENGTH = L/2								
LANE WIDTH	SPEED (MPH)	45	50	55	60	65	70	75
12 feet	L/2 (feet)	270	320	360	360	400	440	480

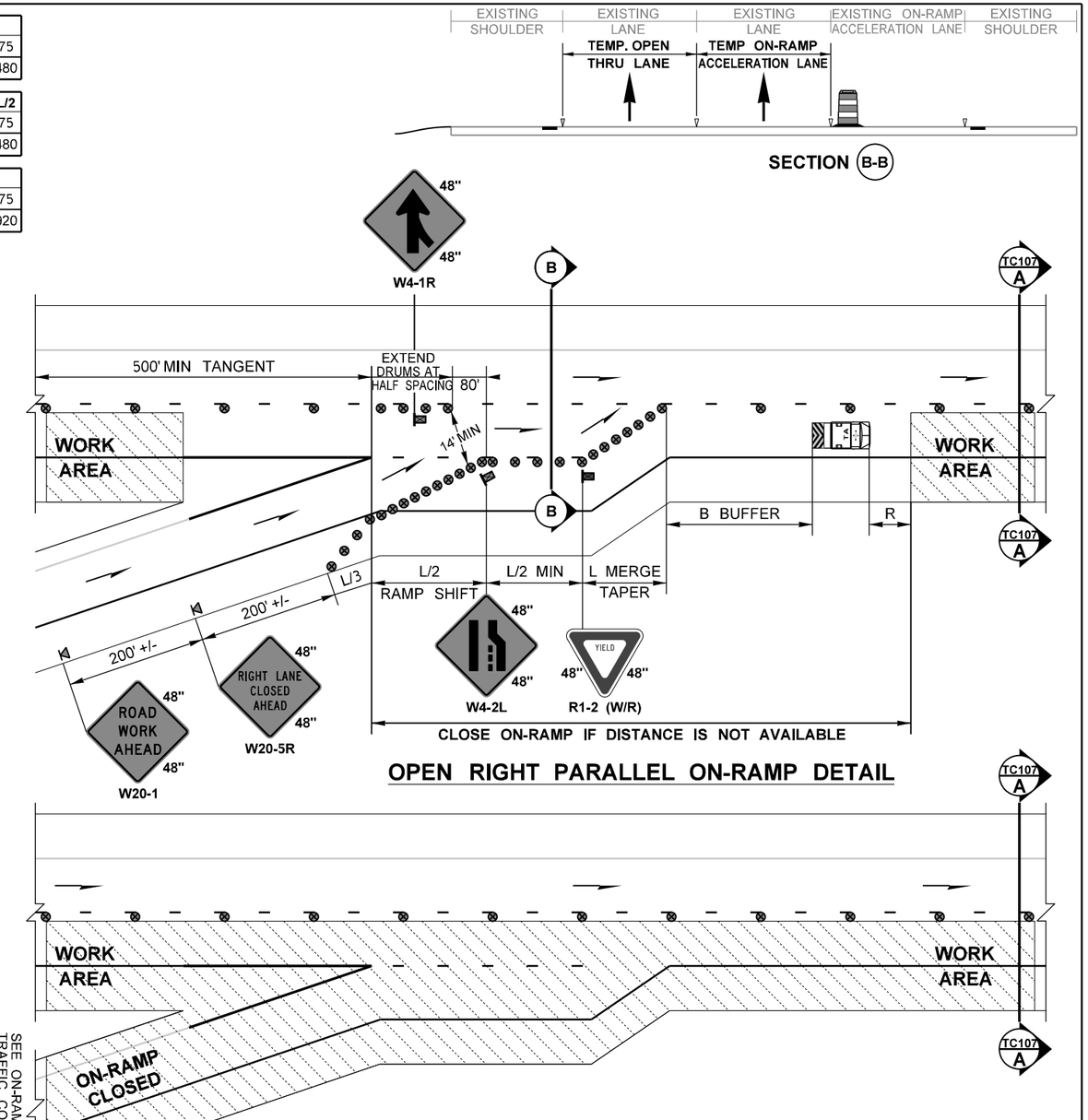
ON-RAMP MERGE TAPER LENGTH = L								
LANE WIDTH	SPEED (MPH)	45	50	55	60	65	70	75
12 feet	L (feet)	540	600	680	720	800	840	920



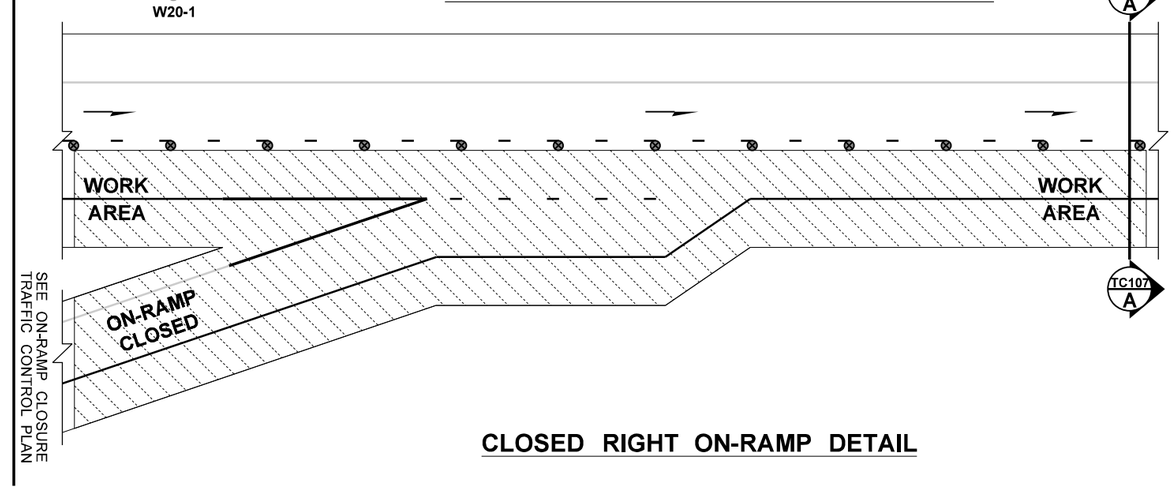
OPEN RIGHT EXIT-RAMP DETAIL



CLOSED RIGHT EXIT-RAMP DETAIL



OPEN RIGHT PARALLEL ON-RAMP DETAIL



CLOSED RIGHT ON-RAMP DETAIL

FREEWAY SINGLE RIGHT LANE CLOSURE

NOT TO SCALE

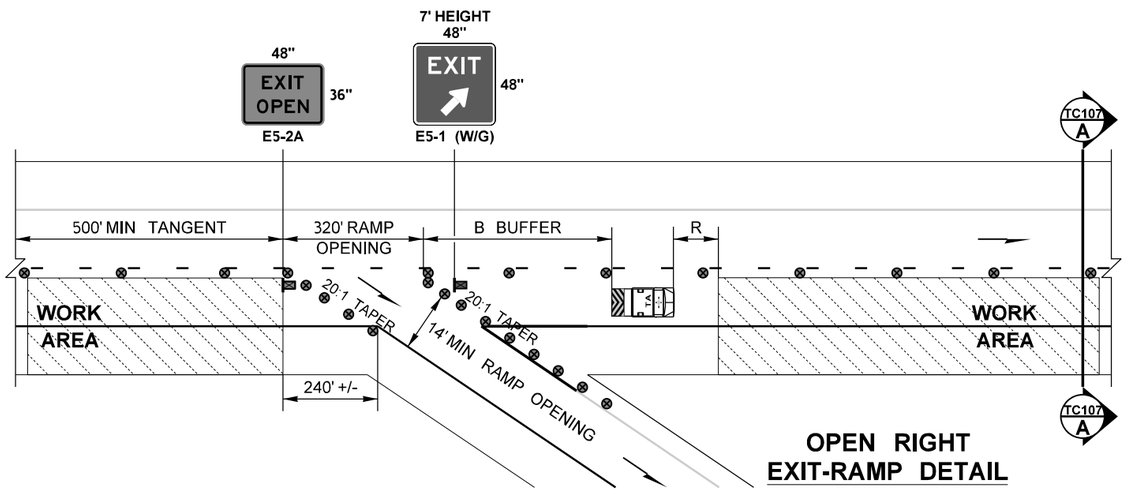
FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_TC.dgn				REGION NO.	STATE	FED.AID PROJ.NO.		Washington State Department of Transportation	I-5/NB FOURTH PLAIN ON-RAMP I-205/SB 134TH ST TO MILL PLAIN RAMP METERS	Plot 8
TIME	9:37:33 AM				10	WASH	STP-2051(287) CRRSAA(UL)-0051(318)				PLAN REF NO TC11
DATE	11/1/2022				JOB NUMBER						
PLOTTED BY	fuestm				22X332						SHEET 152 OF 164 SHEETS
DESIGNED BY	M. FUEST				CONTRACT NO.		LOCATION NO.			TRAFFIC CONTROL	
ENTERED BY	M. FUEST										
CHECKED BY	R. SMITH										
PROJ. ENGR.	M. HARWOOD										
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY							

P.E. STAMP BOX DATE

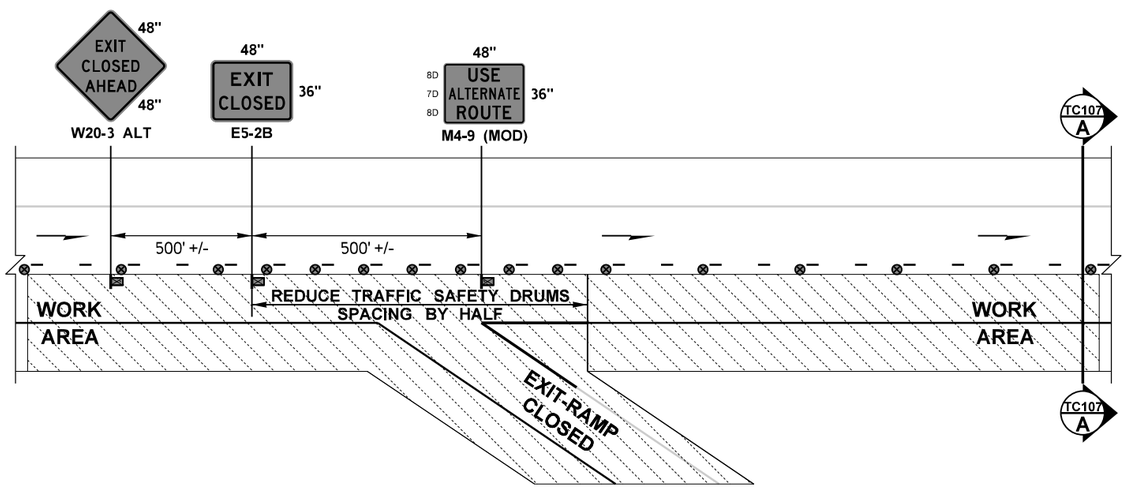
P.E. STAMP BOX DATE

NOTES:

1. FOR LEGEND, TABLES, AND ADDITIONAL NOTES: SEE TC6



OPEN RIGHT EXIT-RAMP DETAIL



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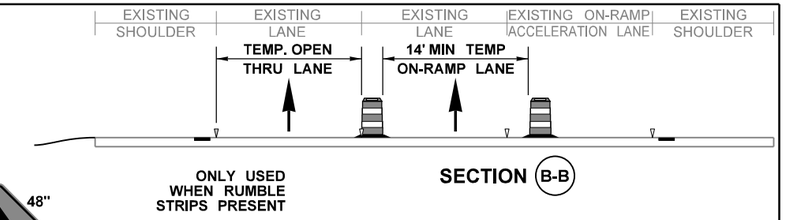
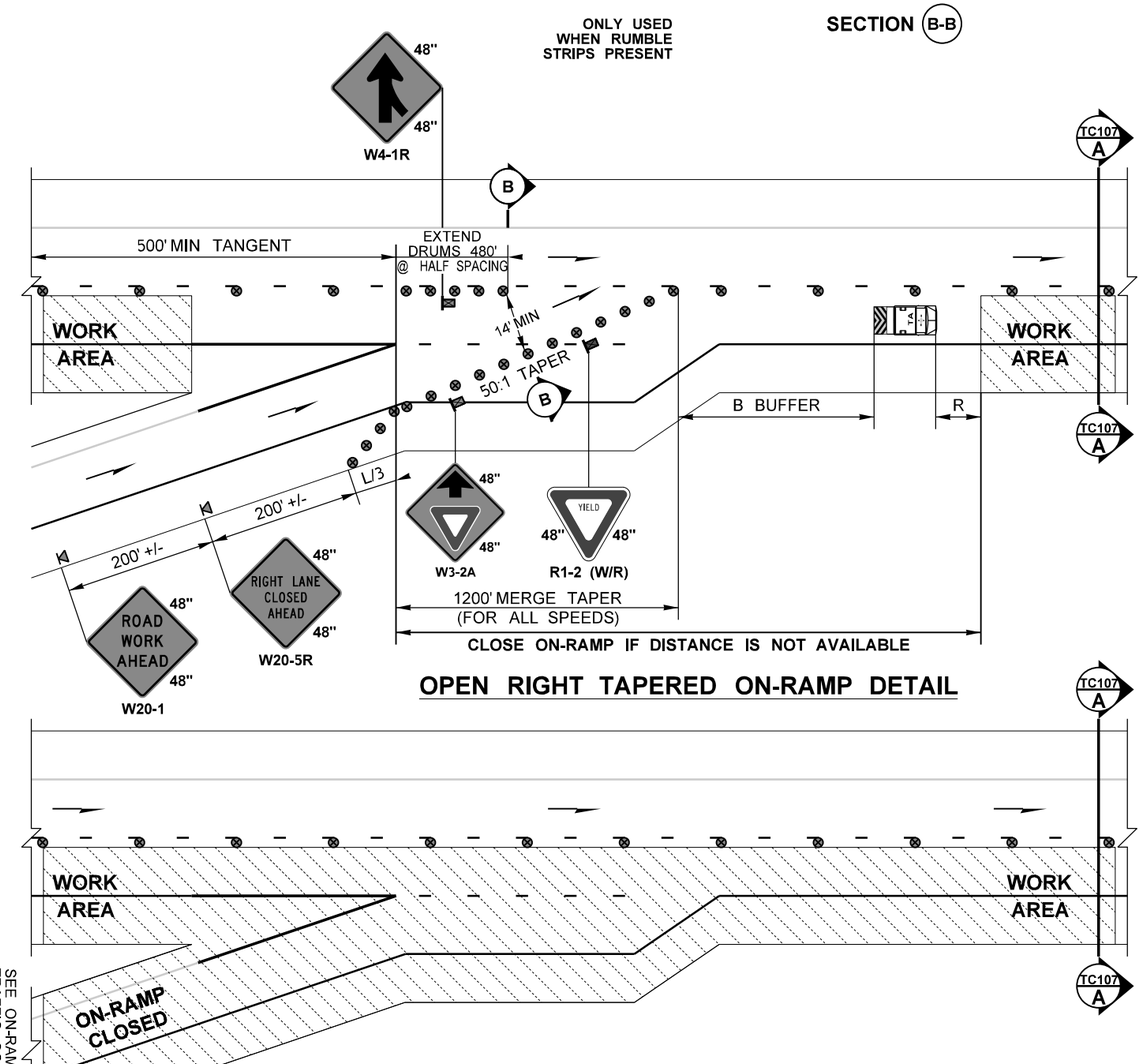




OPEN RIGHT TAPERED ON-RAMP DETAIL

SEE ON-RAMP CLOSURE TRAFFIC CONTROL PLAN

CLOSED RIGHT ON-RAMP DETAIL

FREEWAY SINGLE RIGHT LANE CLOSURE

NOT TO SCALE

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_TC.dgn						
TIME	9:37:34 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STP-2051(287) CRRSAA(UL)-0051(318)
DATE	11/1/2022						
PLOTTED BY	fuestm				JOB NUMBER 22X332		
DESIGNED BY	M. FUEST						
ENTERED BY	M. FUEST						
CHECKED BY	R. SMITH				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

TRAFFIC CONTROL

Plot 9

PLAN REF NO TC12

SHEET 153 OF 164 SHEETS

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)

SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	120	130	150	160	170	190
10'	40	60	90	90	150	170	190	200	220	240

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

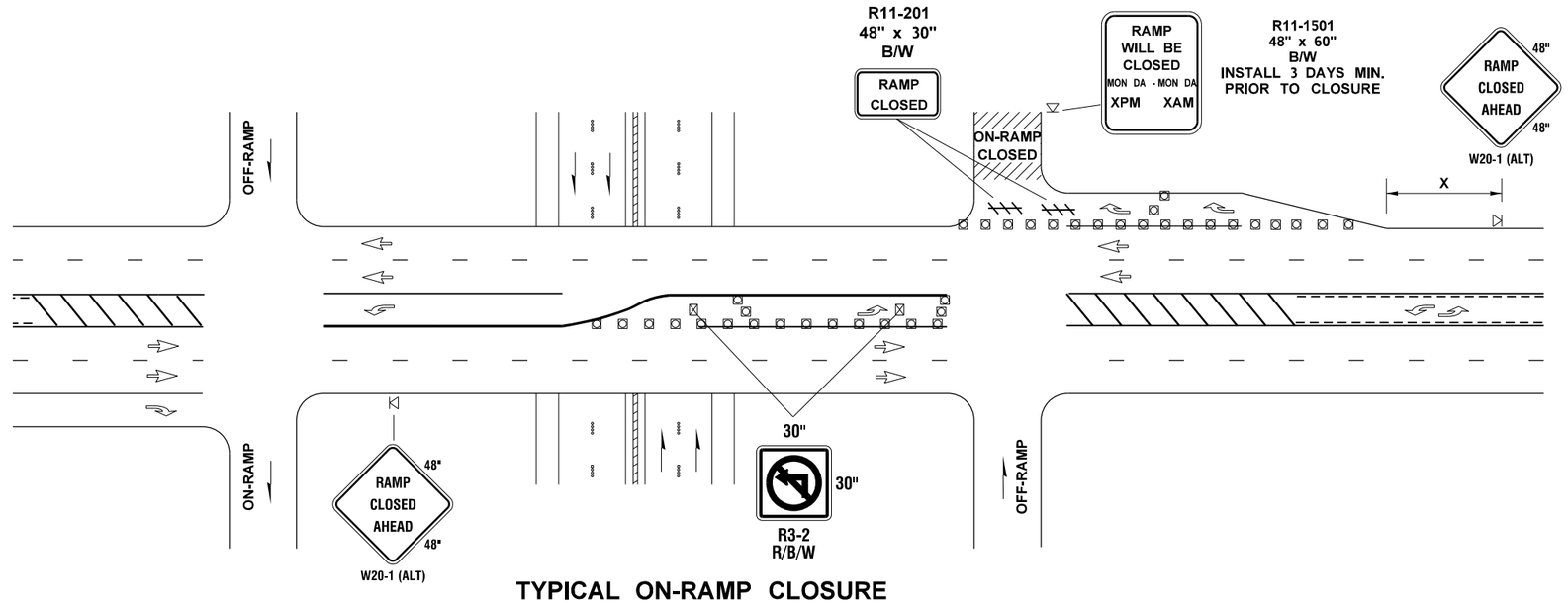
SIGN SPACING = X (1)

FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS RESIDENTAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

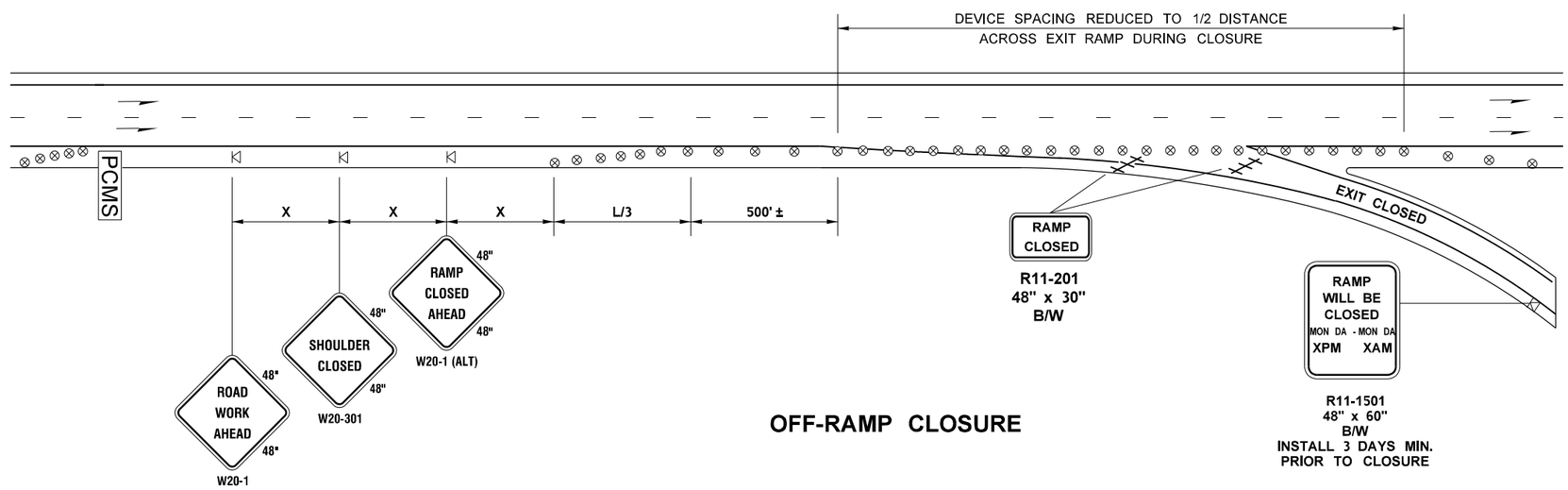
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40



TYPICAL ON-RAMP CLOSURE



OFF-RAMP CLOSURE

PCMS	
1	2
EXIT XXX CLOSED	USE ALT ROUTE
2.0 SEC	2.0 SEC

FIELD LOCATE

LEGEND

- TYPE 3 BARRICADE
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- TRAFFIC SAFETY DRUM
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

SHORT TERM RAMP CLOSURES

NOT TO SCALE

NOTES

1. SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
2. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_TC.dgn
TIME	9:37:35 AM
DATE	11/1/2022
PLOTTED BY	fuestm
DESIGNED BY	M. FUEST
ENTERED BY	M. FUEST
CHECKED BY	R. SMITH
PROJ. ENGR.	M. HARWOOD
REGIONAL ADM.	C. FRANCIS

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. STP-2051(287) CRRSAA(UL)-0051(318)

JOB NUMBER 22X332

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE | P.E. STAMP BOX DATE

Washington State Department of Transportation

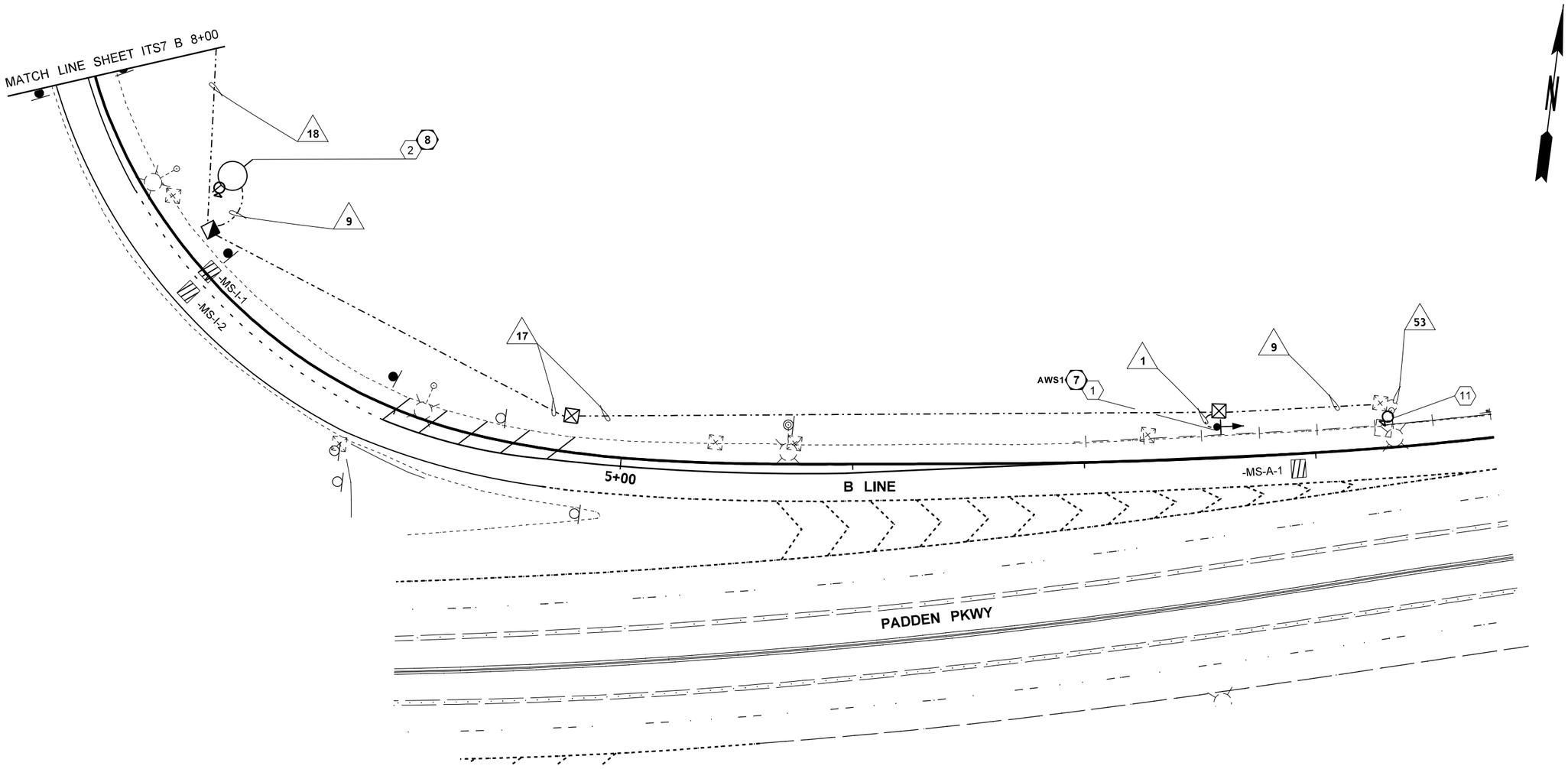
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

TRAFFIC CONTROL

Plot 10

PLAN REF NO TC13

SHEET 154 OF 164 SHEETS



ALTERNATE #1

GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

WB PADDEN PKWY SYSTEM

S5 03287

0 25 50
SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - A1.dgn						
TIME	9:46:08 AM				REGION NO.	STATE	FED.AID PROJ.NO.
DATE	11/1/2022				10	WASH	STP-2051(287)
PLOTTED BY	fuestm				JOB NUMBER		CRRSAA(UL)-0051(318)
DESIGNED BY	M. FUEST				22X332		
ENTERED BY	M. FUEST				CONTRACT NO.		LOCATION NO.
CHECKED BY	K. WACHTER						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

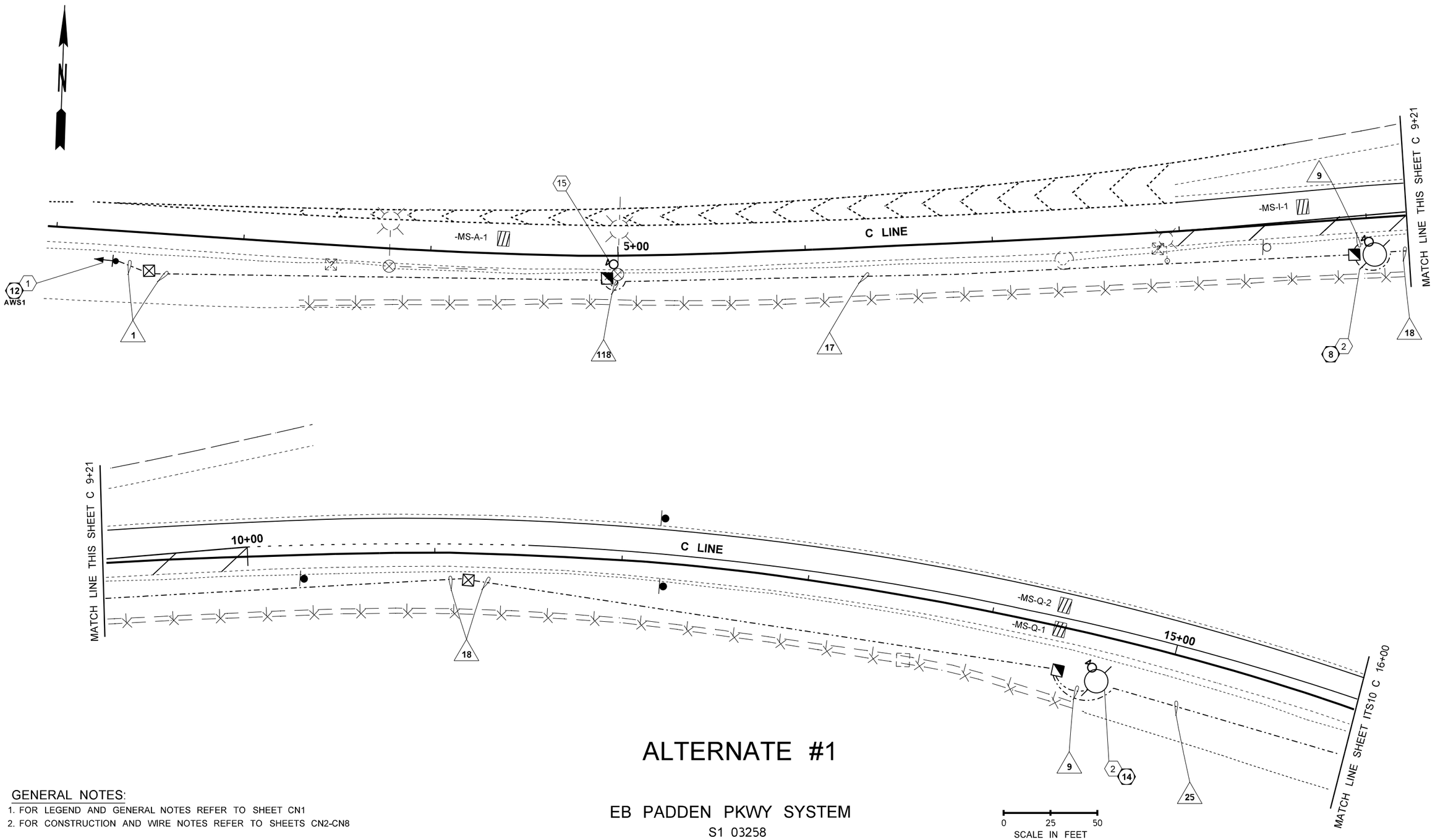
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 9

PLAN REF NO
ALT1

SHEET
155
OF
164
SHEETS



ALTERNATE #1

EB PADDEN PKWY SYSTEM

S1 03258

GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - A1.dgn			
TIME	9:46:09 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

SEE SHEET CT1
DATE
P.E. STAMP BOX

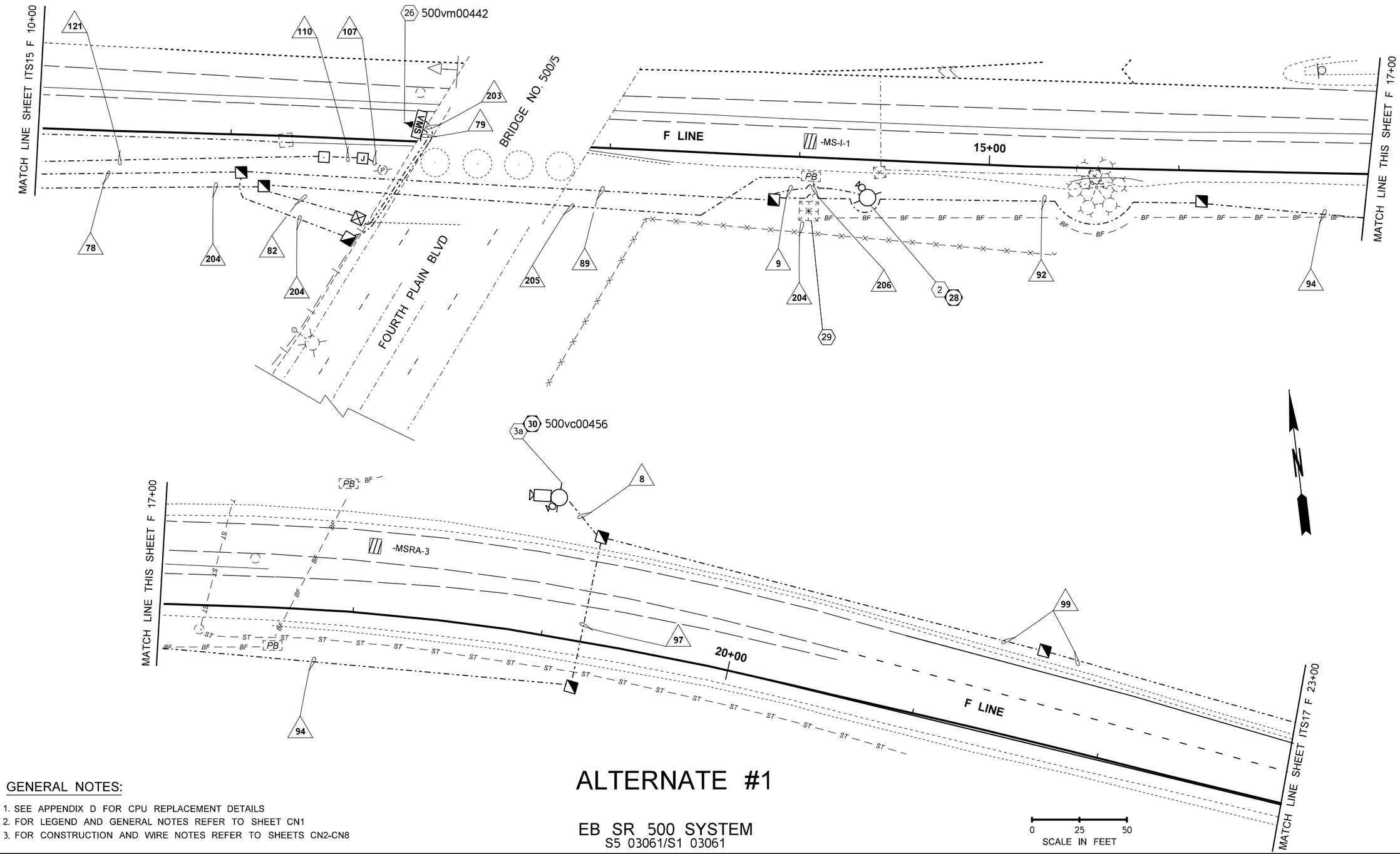
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 11
PLAN REF NO ALT2
SHEET 156 OF 164 SHEETS



ALTERNATE #1

EB SR 500 SYSTEM

S5 03061/S1 03061

GENERAL NOTES:

1. SEE APPENDIX D FOR CPU REPLACEMENT DETAILS
2. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
3. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - A1.dgn			
TIME	9:46:11 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

SEE SHEET CT1
DATE
P.E. STAMP BOX

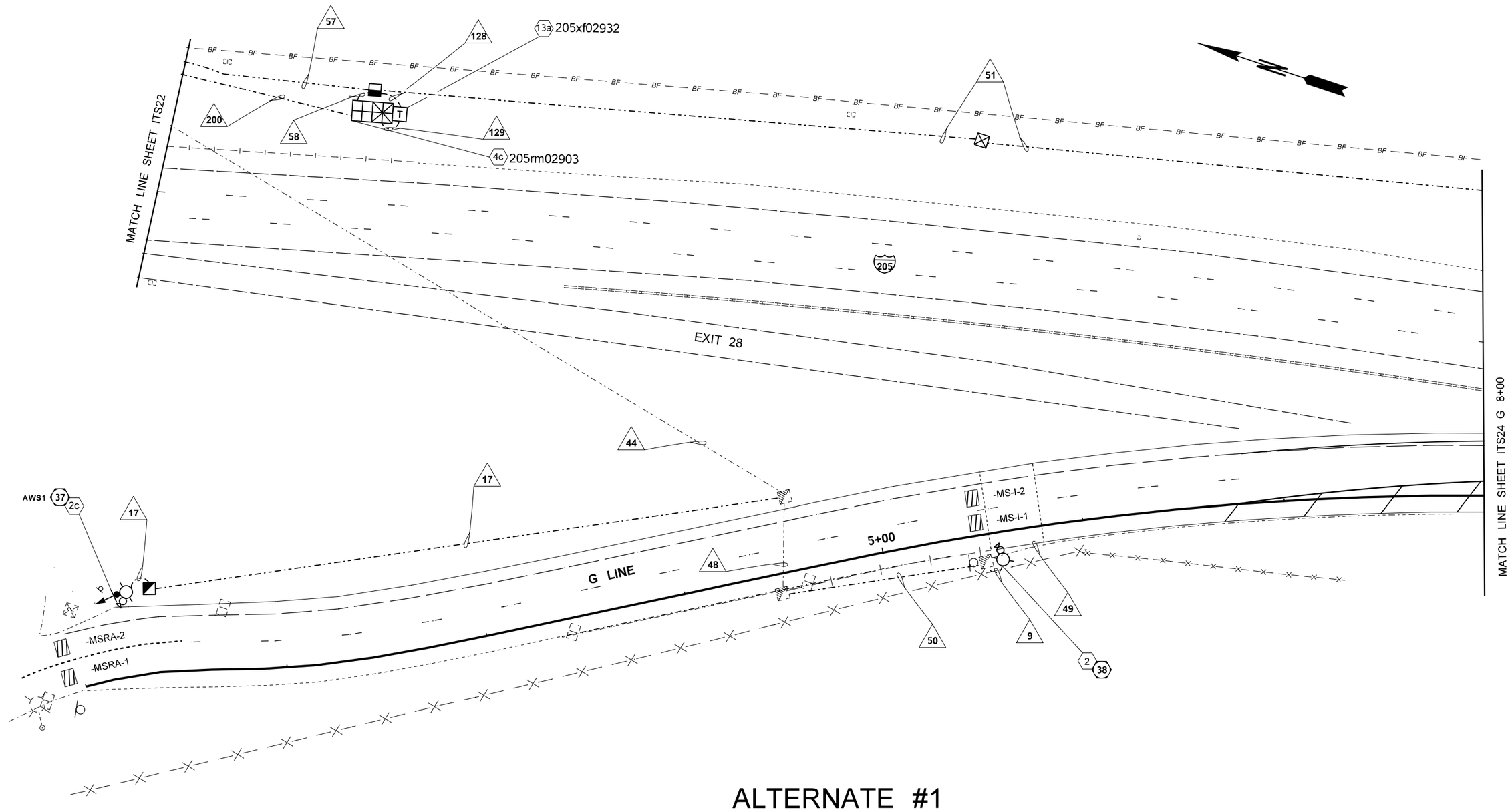
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 18
PLAN REF NO ALT3
SHEET 157 OF 164 SHEETS



ALTERNATE #1

GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

18TH ST SYSTEM
S1 02881

0 25 50
SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - A1.dgn			
TIME	9:46:12 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

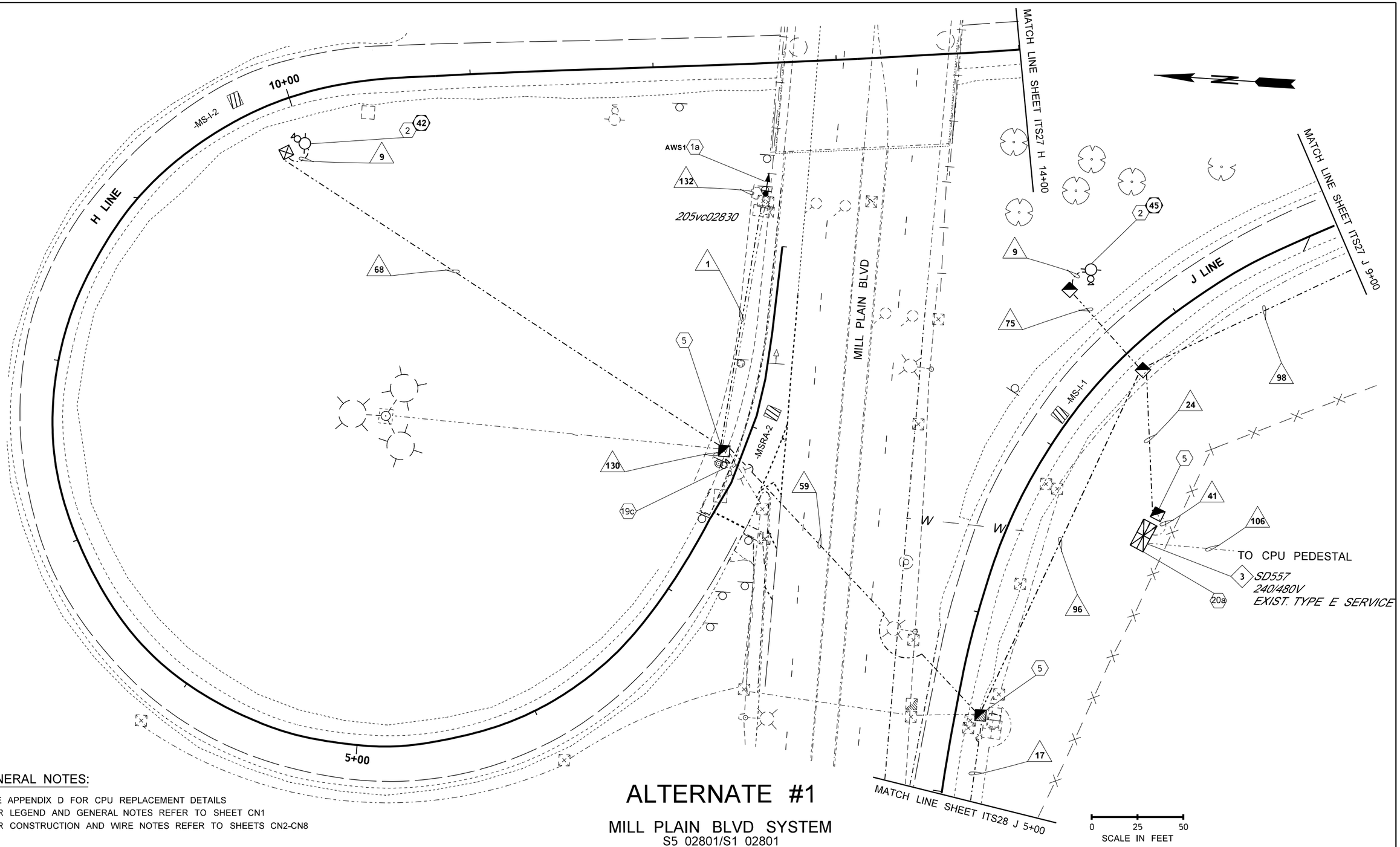
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 22
PLAN REF NO
ALT4
SHEET 158 OF 164 SHEETS



GENERAL NOTES:

1. SEE APPENDIX D FOR CPU REPLACEMENT DETAILS
2. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
3. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

ALTERNATE #1

MILL PLAIN BLVD SYSTEM

S5 02801/S1 02801

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - A1.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	9:46:14 AM				10	WASH	STP-2051(287)
DATE	11/1/2022				JOB NUMBER		CRRSAA(UL)-0051(318)
PLOTTED BY	fuestm				22X332		
DESIGNED BY	M. FUEST				CONTRACT NO.		LOCATION NO.
ENTERED BY	M. FUEST						
CHECKED BY	K. WACHTER						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

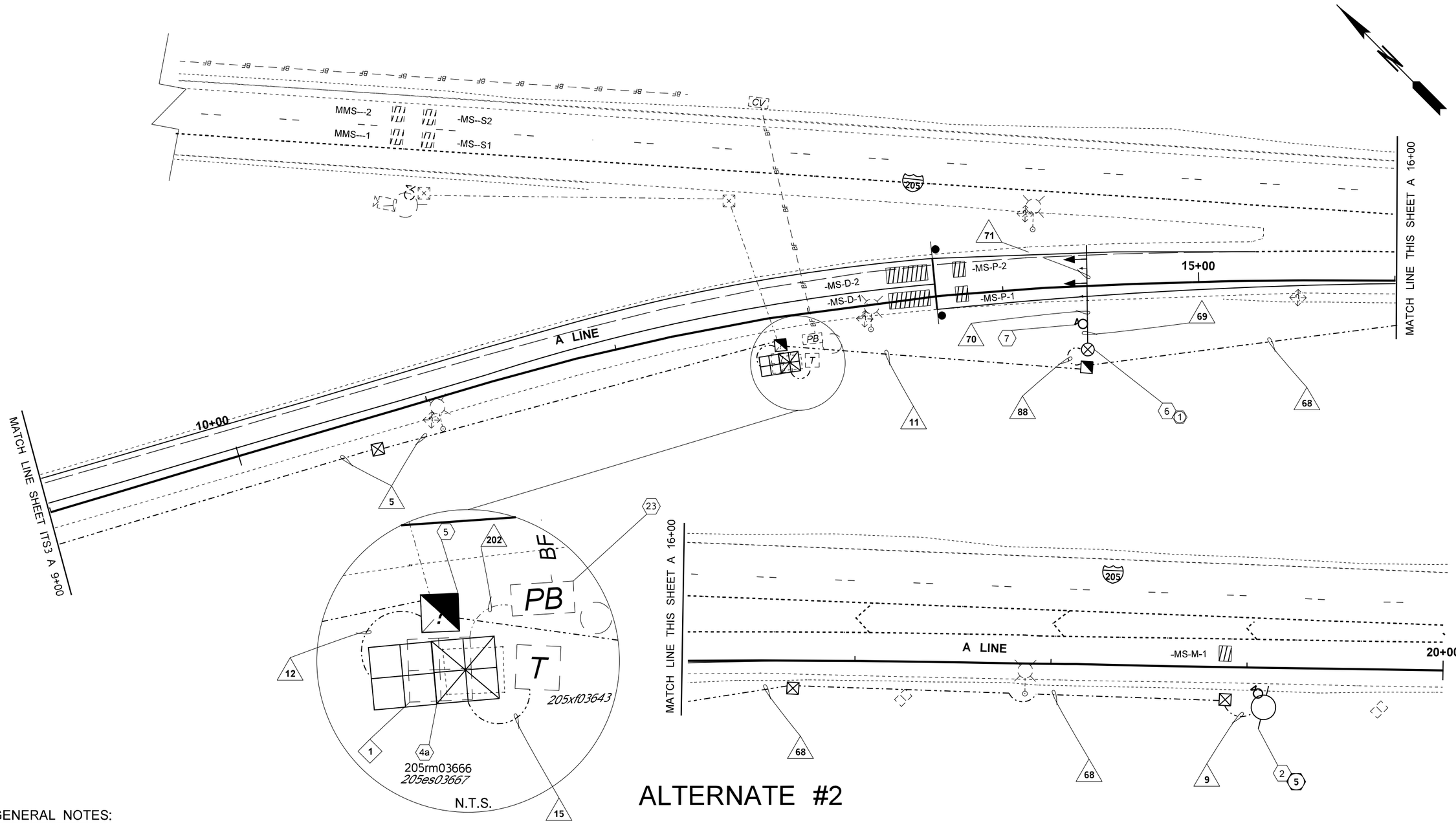
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 26

PLAN REF NO
ALT5

SHEET 159 OF 164 SHEETS



ALTERNATE #2

134TH ST SYSTEM

S1 03617

GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - A2.dgn			
TIME	9:51:46 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD-FRANCIS STATE OF WASHINGTON 39399 REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

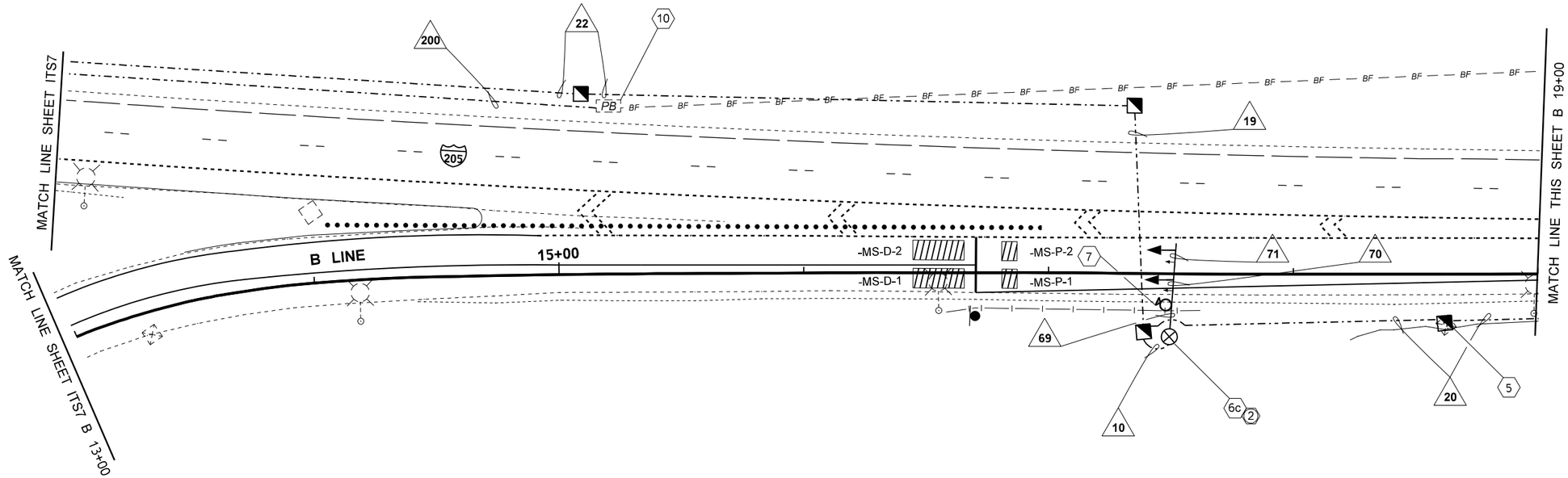
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

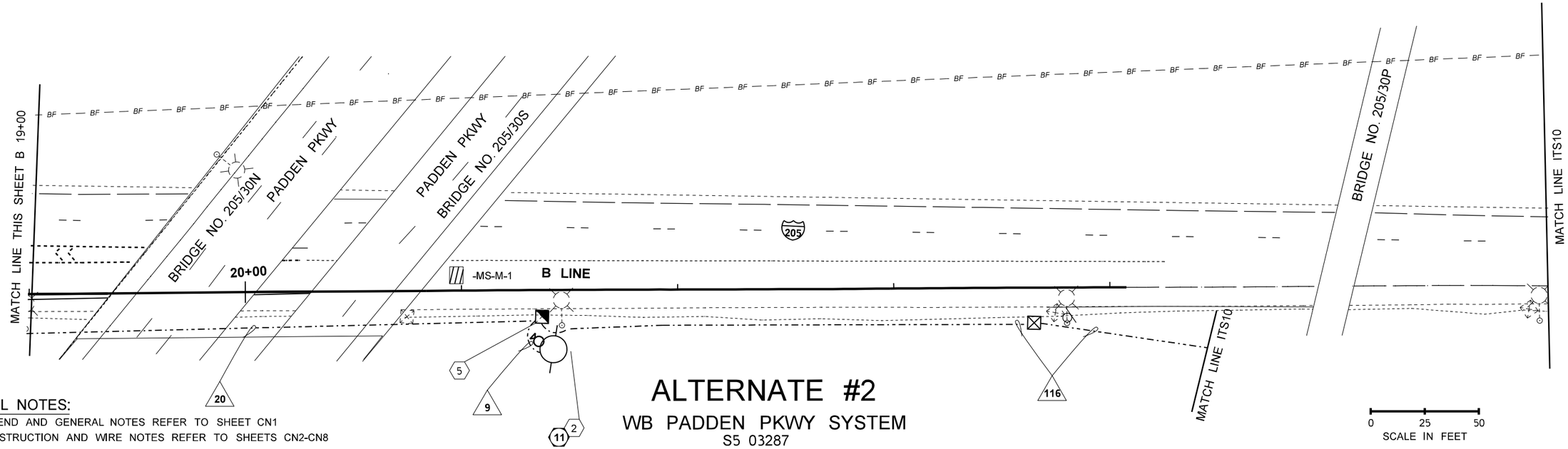
ITS PLAN

Plot 7

PLAN REF NO ALT6

SHEET 160 OF 164 SHEETS





ALTERNATE #2

WB PADDEN PKWY SYSTEM

S5 03287

GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

FILE NAME	G:\Trafflc\ITS\04 - Design\Actlve Projects\QL0116 - I-205, SB 134th St to MIll Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - A2.dgn			
TIME	9:51:47 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA D. HARWOOD DUNCAN — STATE OF WASHINGTON — 39399 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
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DATE
P.E. STAMP BOX

Washington State Department of Transportation

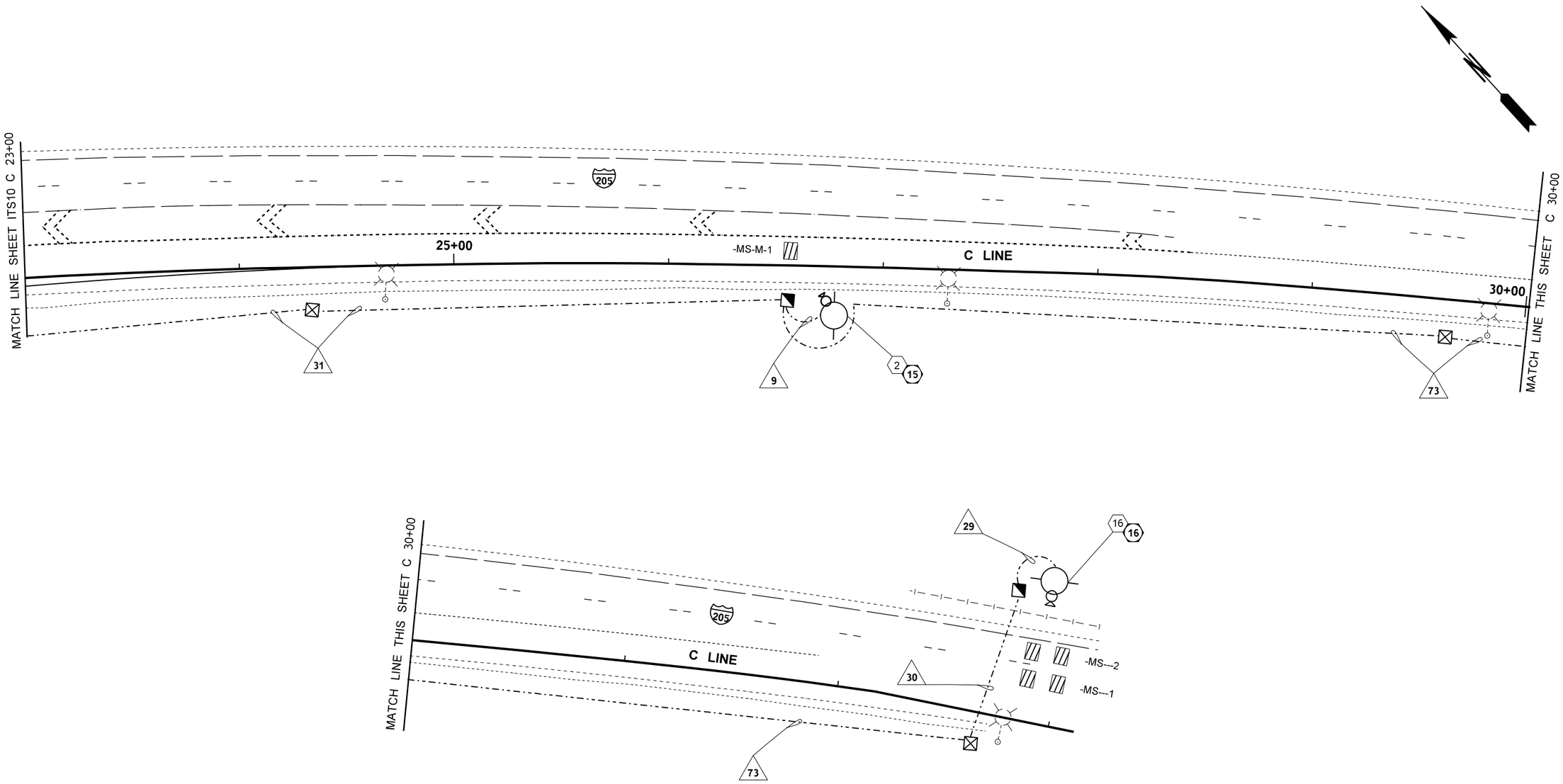
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 10

PLAN REF NO
ALT7

SHEET 161 OF 164 SHEETS



ALTERNATE #2

EB PADDEN PKWY SYSTEM

S1 03258

0 25 50
SCALE IN FEET

GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - A2.dgn			
TIME	9:51:52 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA D. HARWOOD-FRANCIS
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

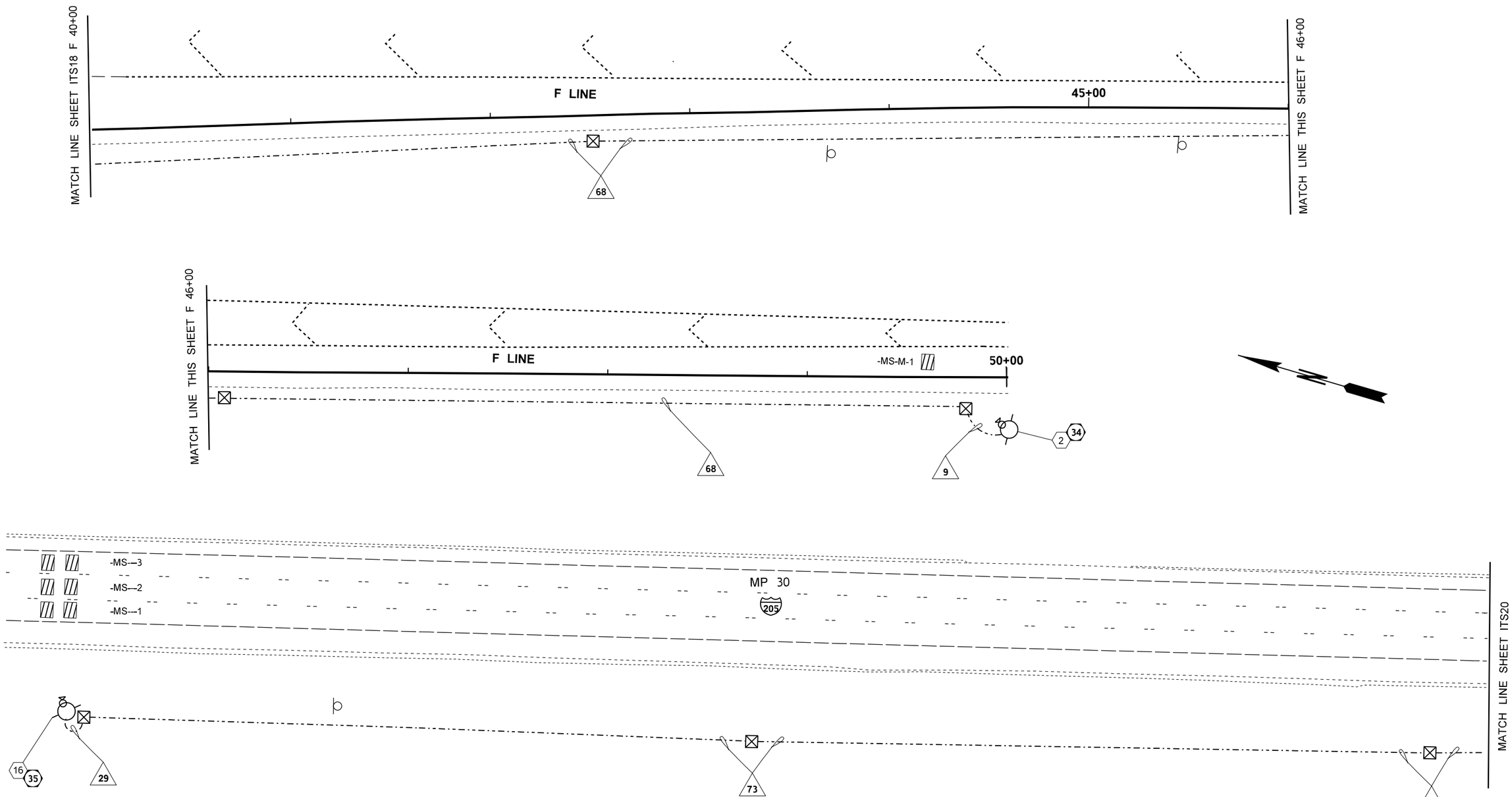
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 35
PLAN REF NO
ALT8
SHEET 162 OF 164 SHEETS



GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8

ALTERNATE #2

SR 500 SYSTEM
S1 03061

0 25 50
SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - A2.dgn			
TIME	9:51:49 AM			
DATE	11/1/2022			
PLOTTED BY	fuestm			
DESIGNED BY	M. FUEST			
ENTERED BY	M. FUEST			
CHECKED BY	K. WACHTER			
PROJ. ENGR.	M. HARWOOD			
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA JO HARWOOD DUNCAN
STATE OF WASHINGTON
39399
REGISTERED PROFESSIONAL ENGINEER

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DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

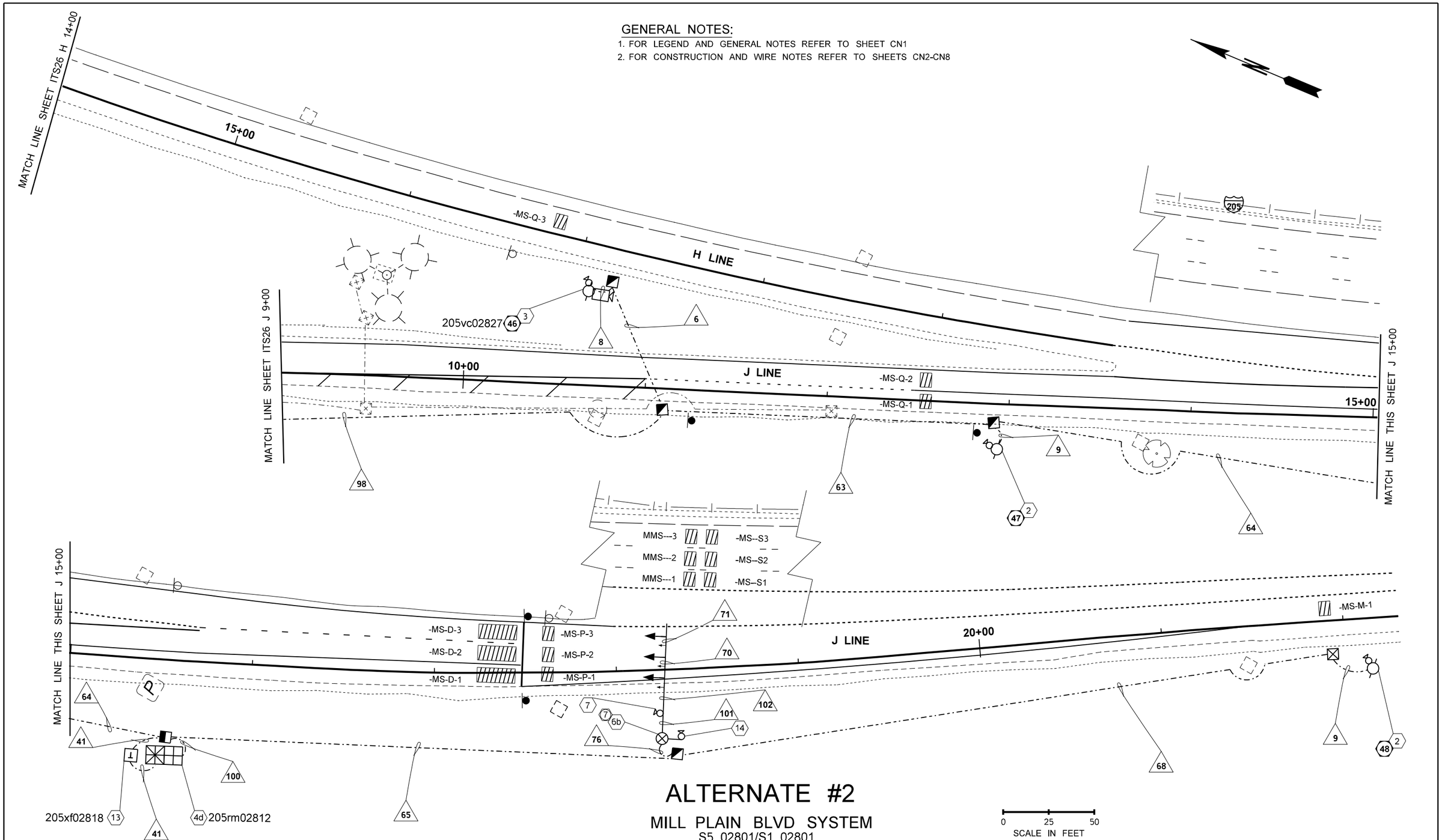
I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 20
PLAN REF NO
ALT9
SHEET 163 OF 164 SHEETS

GENERAL NOTES:

1. FOR LEGEND AND GENERAL NOTES REFER TO SHEET CN1
2. FOR CONSTRUCTION AND WIRE NOTES REFER TO SHEETS CN2-CN8



ALTERNATE #2

MILL PLAIN BLVD SYSTEM

S5 02801/S1 02801

0 25 50
SCALE IN FEET

FILE NAME	G:\Traffic\ITS\04 - Design\Active Projects\QL0116 - I-205, SB 134th St to Mill Plain Blvd - Ramp Meter\CADD_Sheets\QL0116_PS_ITS - A2.dgn						
TIME	9:51:50 AM						
DATE	11/1/2022						
PLOTTED BY	fuestm						
DESIGNED BY	M. FUEST						
ENTERED BY	M. FUEST						
CHECKED BY	K. WACHTER						
PROJ. ENGR.	M. HARWOOD						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	STP-2051(287)
JOB NUMBER 22X332		CRRSAA(UL)-0051(318)
CONTRACT NO.		LOCATION NO.

MONICA O. HARWOOD DUNCAN — STATE OF WASHINGTON — 39399 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
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DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-5/NB FOURTH PLAIN ON-RAMP
I-205/SB 134TH ST TO MILL PLAIN
RAMP METERS

ITS PLAN

Plot 27
PLAN REF NO
ALT10
SHEET 164 OF 164 SHEETS