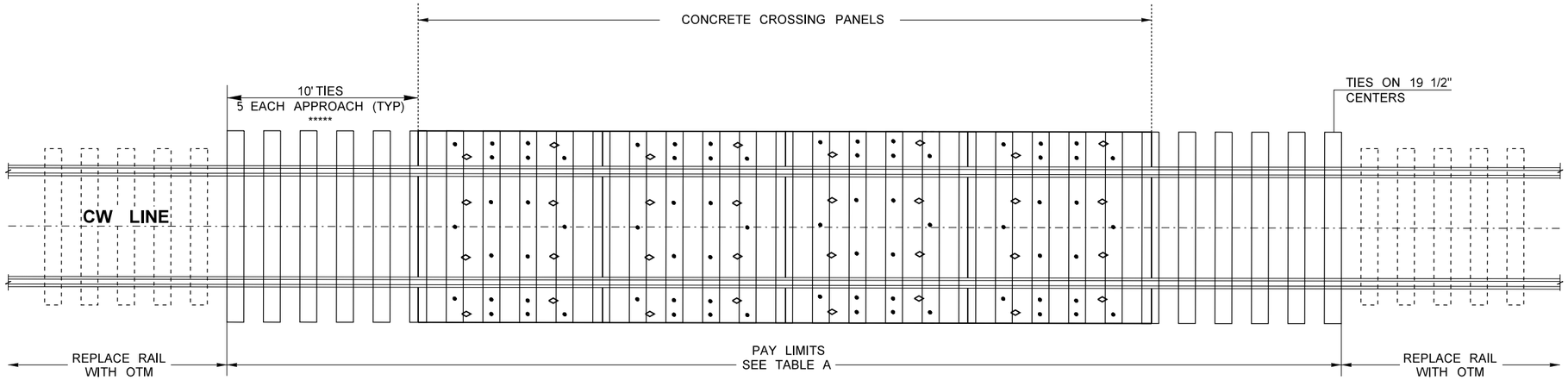
PROJECT LICENSED PROFESSIONAL CERTIFICATES

Jason Biggs Nov 3, 2023 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.	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.

NOTES:

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

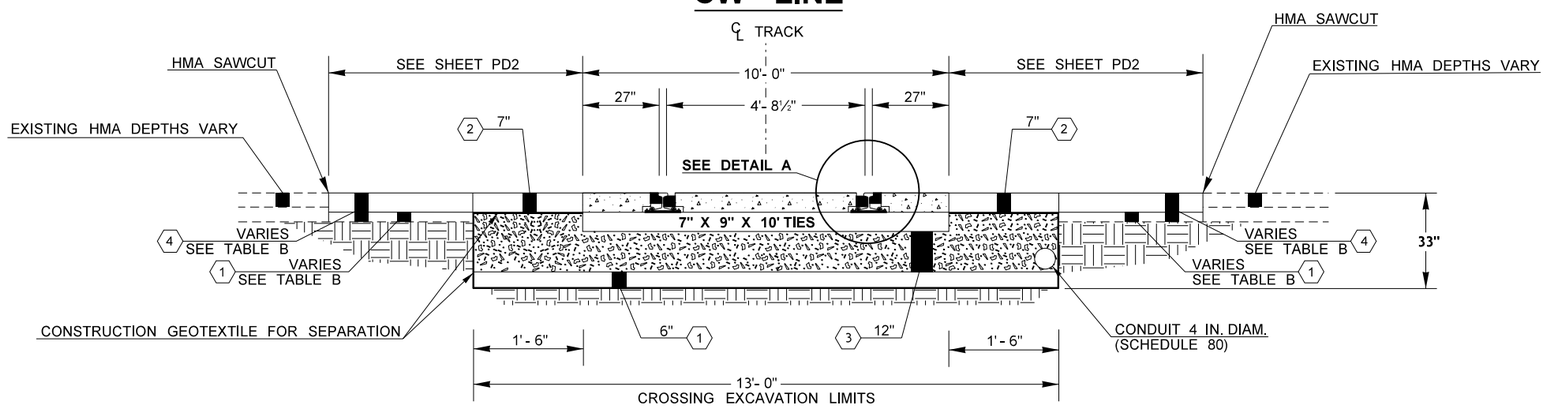
THIS SHEET SERVES AS THE CERTIFICATION BY THE ABOVE LICENSED PROFESSIONALS OF ALL SHEETS IN THIS PLAN SET WHERE THEIR STAMPS AND SIGNATURES APPEAR.



LEGEND

1. CRUSHED SURFACING BASE COURSE
2. COMMERCIAL HMA
3. BALLAST
4. ROADWAY EXCAVATION INCL. HAUL

CW LINE



CONCRETE GRADE CROSSING SECTION

NOT TO SCALE
CW STA. 95+99.38 TO STA. 99+56.88
CW STA. 100+08.75 TO STA. 100+90.00
CW STA. 101+15.75 TO STA. 101+80.62

DETAIL A

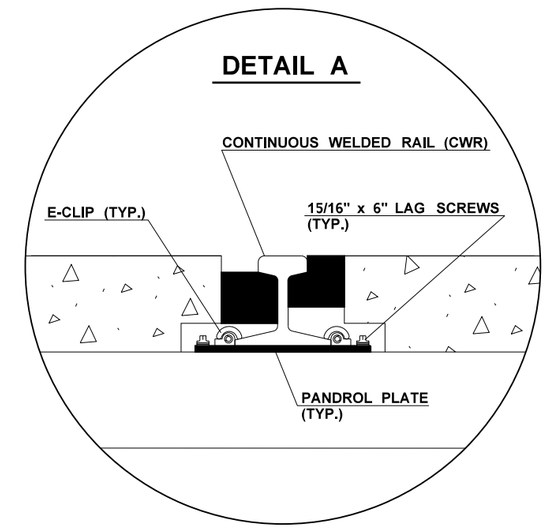


TABLE A

CROSSING REPLACEMENT - CONCRETE*

CROSSING DATA		TRAFFIC CONTROL	PROPOSED CROSSING							
QUANTITY **** TAB	NAME	REQUIRED TC	CROSSING REPLACEMENT-CONCRETE 'A' (TF)	EXISTING RAIL	PROPOSED SURFACE	TIES-10' (EA)	BALLAST (TONS)	PANEL** SETS	RAIL LENGTH (TF)	CSBC (TONS)
TP1-3	SR 904	DETOUR	373.75	115RE	CONCRETE	228	249	40	373.75	165.00
TP1-5	BETZ ROAD	DETOUR	81.25	115RE	CONCRETE	50	55	8	81.25	36.20
TP1-7	SR 904 SB RT	DETOUR	64.88	115RE	CONCRETE	40	44	5	64.25	28.60

TABLE B

QUANTITY *** TAB	AREA (SF)	CSBC			ROADWAY EX. INCL. HAUL	
		DEPTH	T/CY	TONS	DEPTH	CY
PD1-1	216.00	0.22'	1.85	3.40	0.80'	6.40
PD1-2	313.88	0.22'	1.85	4.70	0.80'	9.30
PD1-3	285.88	0.27'	1.85	5.40	0.85'	9.00
PD1-4	324.00	0.17'	1.85	3.80	0.75'	9.00
PD1-5	744.23	0.20'	1.85	10.30	0.78'	21.50
PD1-6	432.93	0.00'	1.85	0.00	0.58'	9.30
PD1-7	235.38	0.20'	1.85	3.20	0.78'	6.80
PD1-8	301.15	0.20'	1.85	4.20	0.78'	8.70

* QUANTITIES TO BE VERIFIED BY CONTRACTOR
** SUPPLIED BY CONTRACTING AGENCY
*** SEE SHEET PD1
**** SEE SHEET TP1
***** SEE NOTE SHEET TP1

NOTES:

1. ALL DEPTHS SHOWN ARE COMPACTED DEPTHS.
2. CONCRETE CROSSING PANELS, LAG SCREWS, AND DRAG PANELS ARE SUPPLIED BY THE CONTRACTING AGENCY ARE TO BE INSTALLED BY THE CONTRACTOR.

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney SR904_BETZ RD PS_RS.dgn
TIME	1:10:50 PM
DATE	10/26/2023
PLOTTED BY	CranforR
DESIGNED BY	R. CRANFORD
ENTERED BY	R. CRANFORD
CHECKED BY	P.R. PAINTNER
PROJ. ENGR.	J. BIGGS, P.E.
REGIONAL ADM.	T. TREPANIER, P.E.

REVISION | DATE | BY

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

JOB NUMBER 23Z021

CONTRACT NO.

LOCATION NO. XL5170

JASON BIGGS STATE OF WASHINGTON 40786 REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

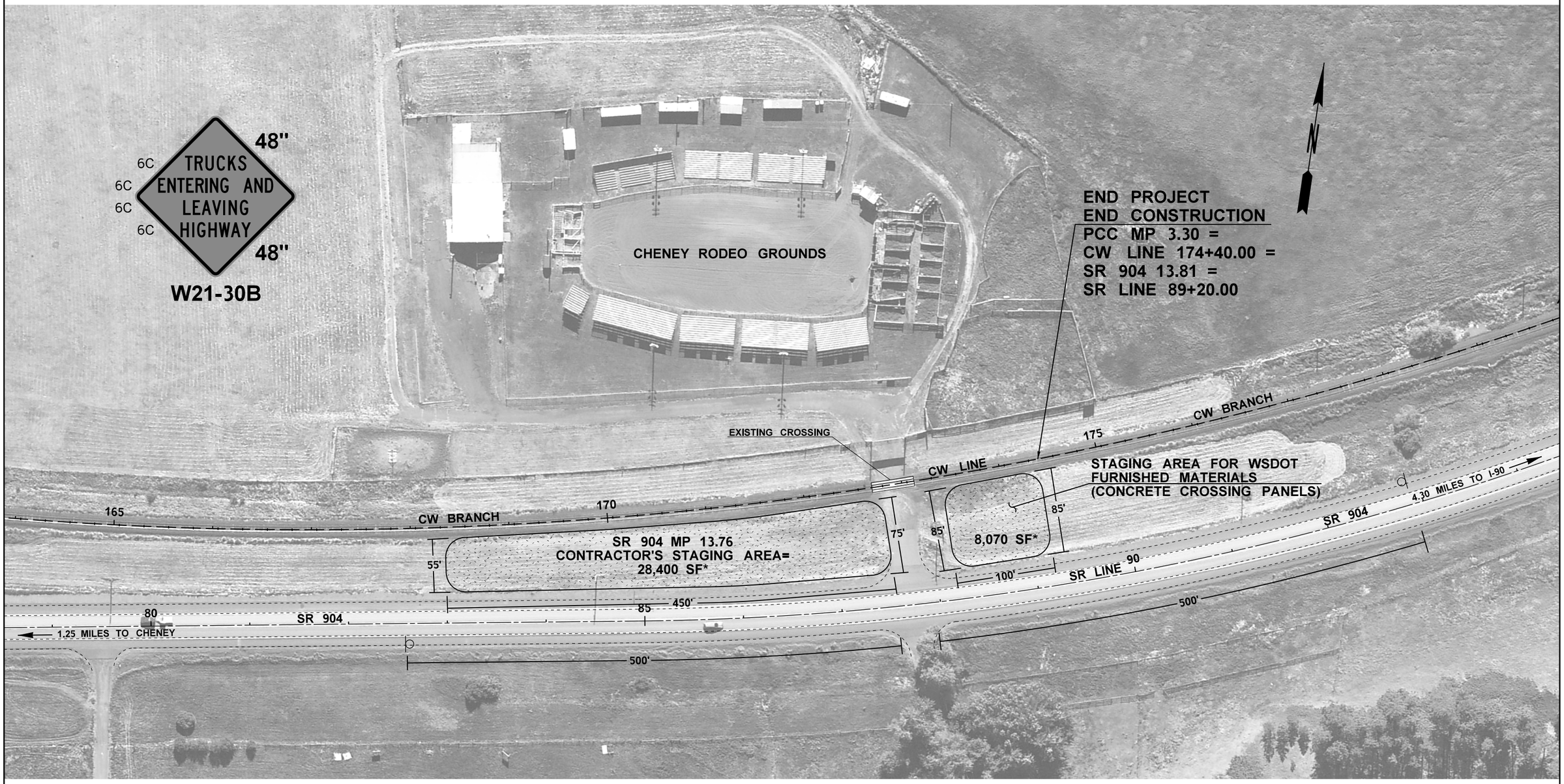
Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

CROSSING SECTION

Plot 1
PLAN REF NO CS1
SHEET 6 OF 36 SHEETS

SPOKANE COUNTY
T. 23N. R. 41E. W.M.



0 50 100
SCALE IN FEET

*SEE SPECIAL PROVISIONS "CROSSING REPLACEMENT"
FOR MATERIAL STAGING REQUIREMENTS

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney SR904_BETZ RD PS_SA.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	2:38:33 PM				10	WASH	
DATE	10/5/2023				JOB NUMBER		
PLOTTED BY	CranforR				23Z021		
DESIGNED BY	P.R. PAINTNER				CONTRACT NO.		LOCATION NO.
ENTERED BY	R. RAGAZA-BOURASSA						XL5170
CHECKED BY	B. BAILEY						
PROJ. ENGR.	J. BIGGS, P.E.						
REGIONAL ADM.	T. TREPANIER, P.E.	REVISION	DATE	BY			

JASON BIGGS
STATE OF WASHINGTON
40786
REGISTERED
PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

STAGING AREA PLAN

Plot 1
PLAN REF NO
SA1
SHEET
7
OF
36
SHEETS

QUANTITY TABULATION - TRACK

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

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

CODE	LOCATION ➢ \ UNIT OF MEASURE ➢	CONDUIT PIPE 4 IN. DIAM.		CONSTRUCTION GEOTEXTILE FOR SEPARATION		RAIL JOINT WELDING		CROSSING REPLACEMENT - CONCRETE		REPLACE RAIL WITH OTM		BALLAST DISTRIBUTION		SURFACE LINE AND DRESS			SEE GENERAL NOTES
		L.F.		S.Y.		EACH		T.F.		T.F.		TON		T.F.			
TP1-1	CW 95+65.87 TO CW 95+83.13									17.3		5		18			1,2,3
TP1-2	CW 95+65.87 TO CW 101+83.87					20											1,2,3
TP1-3	CW 95+83.13 TO CW 99+56.88	375		1020				373.8									1,2,3
TP1-4	CW 99+56.88 TO CW 100+08.75									51.9		15		52			1,2,3
TP1-5	CW 100+08.75 TO CW 100+90.00	82		220				81.3									1,2,3
TP1-6	CW 100+90.00 TO CW 101+15.75									25.8		7		26			1,2,3
TP1-7	CW 101+15.75 TO CW 101+80.62	65		180				64.9									1,2,3
TP1-8	CW 101+80.62 TO CW 101+83.87											1		3			1,2,3
	SHEET TOTAL	522		1420		20		520		95		28		99			
	PROJECT TOTAL	522		1420		20		520		95		28		99			

GENERAL NOTES:

1. SEE BNSF / UP COMMON STD. DRAWING NO. 200100
2. SEE SPECIAL PROVISIONS
3. SEE PLAN SHEET CS1

DESIGNED BY	P.R. PAINTNER					REGION NO.	STATE
ENTERED BY	R. RAGAZA-BOURASSA					10	WASH
CHECKED BY	L. RASMUSSEN, P.E.					JOB NUMBER	
PROJ. ENGR.	J. BIGGS, P.E.					23Z021	
REGION ADM.	T. TREPANIER, P.E.					CONTRACT NO.	
		DATE	DATE	REVISION	BY	XL5170	

FED. AID PROJ. NO.

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

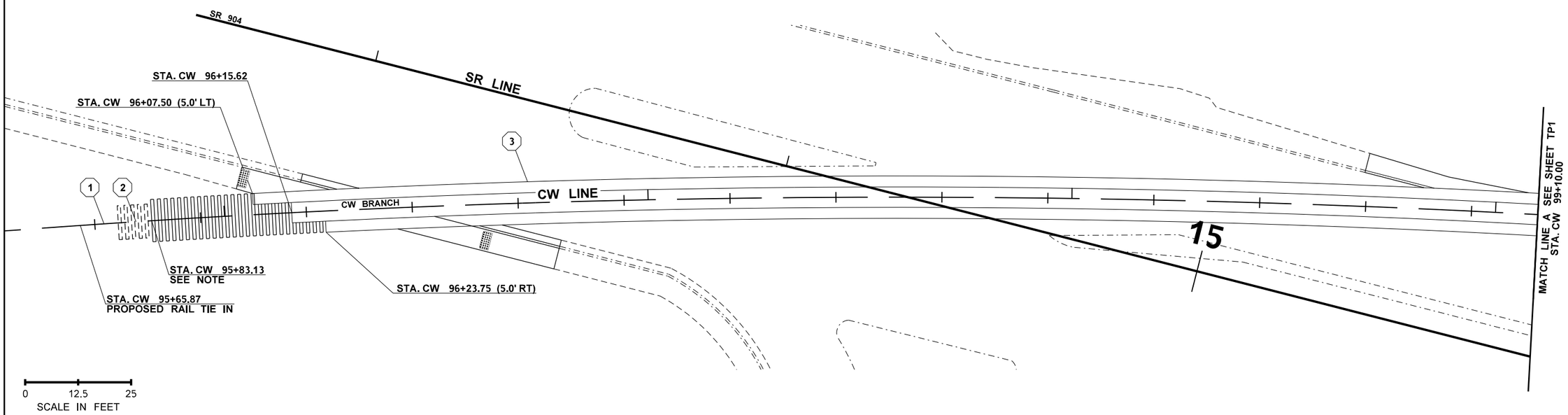
QUANTITY TABULATION - TRACK

QTTP 1

SHEET 8 OF 36 SHEETS

NOTE: INSTALL 15 10' APPROACH TIES

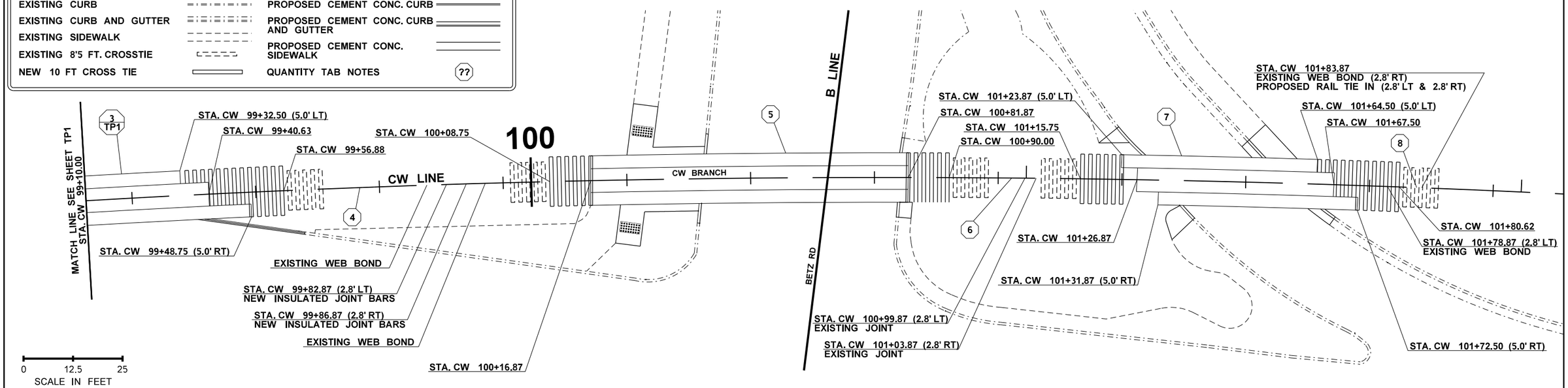
SPOKANE COUNTY
T. 23N. R. 41E. W.M.



LEGEND

CONSTRUCTION TRACK ALIGNMENT	50	CONSTRUCTION ROAD ALIGNMENT	50
EXISTING CURB		PROPOSED CEMENT CONC. CURB	
EXISTING CURB AND GUTTER		PROPOSED CEMENT CONC. CURB AND GUTTER	
EXISTING SIDEWALK		PROPOSED CEMENT CONC. SIDEWALK	
EXISTING 8'5 FT. CROSSTIE		QUANTITY TAB NOTES	??
NEW 10 FT CROSS TIE			

SPOKANE COUNTY
T. 23N. R. 41E. W.M.



FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney SR904_BETZ RD PS_TP.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	1:06:03 PM				JOB NUMBER 23Z021		
DATE	10/26/2023				CONTRACT NO.		LOCATION NO. XL5170
PLOTTED BY	RagazaR						
DESIGNED BY	P.R. PAINTNER						
ENTERED BY	R. RAGAZA-BOURASSA						
CHECKED BY	L. RASMUSSEN, P.E.						
PROJ. ENGR.	J. BIGGS, P.E.						
REGIONAL ADM.	T. TREPANIER, P.E.	REVISION	DATE	BY			

JASON BIGGS — STATE OF WASHINGTON — 40786 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

TRACK PLAN

Plot 21

PLAN REF NO TP1

SHEET 9 OF 36 SHEETS

QUANTITY TABULATION - SITE PREPARATION & PAVING

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

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

CODE	LOCATION ↓ \ UNIT OF MEASURE →	REMOVING CEMENT CONC. SIDEWALK	REMOVING CEMENT CONC. CURB AND GUTTER	REMOVING CEMENT CONC. CURB		REMOVING PLASTIC LINE	REMOVING PLASTIC TRAFFIC MARKING	REMOVING PLASTIC CROSSWALK LINE		CRUSHED SURFACING BASE COURSE	INLET PROTECTION	WATTLE	CEMENT CONC. TRAFFIC CURB AND GUTTER	CEMENT CONC. TRAFFIC CURB	CEMENT CONC. SIDEWALK	DETECTABLE WARNING SURFACE	SEE GENERAL NOTES
		S.Y.	L.F.	L.F.		L.F.	EACH	S.F.		TON	EACH	L.F.	L.F.	L.F.	S.Y.	S.F.	
SP1-1	SR 12+39.21 (5.6' RT) TO SR 12+39.21 (29.6' RT)					24											1
SP1-2	SR 13+76.14 (31.6' RT)										1						7
SP1-3	SR 13+76.30 (31.3' LT)											8					1,6,8
SP1-4	SR 16+07.45 (1.0' RT)						1										1
SP1-5	B 10+77.53 (6.4' & 16.7' LT)						2										
SP1-6	B 10+97.24 (23.0' LT) TO B 10+97.24 (12.6' RT)							128									
SP1-7	B 11+06.60 (35.0' RT) TO B 11+13.19 (46.1' RT)							48									
SP1-8	B 11+29.01 (0.0' LT & 23.0 LT')					23											
SP1-9	B 11+36.81 (38.2' RT)										1						7
SP1-10	B 11+89.91 (6.8' & 17.1' LT)						2										
SP1-11	12+68.11 (6.4' & 18.7' RT)						2										
SP1-12	12+74.27 (5.8' & 17.2' LT)						2										
SP1-13	B 13+78.60 (7.0' & 18.7' RT)						2										
PD1-1	CW 96+18.89 TO CW 97+12.76																
PD1-2	CW 96+70.57 TO CW 97+93.79																
PD1-3	CW 97+54.75 TO CW 98+75.83																
PD1-4	CW 98+20.83 TO CW 99+53.84																
PD1-5	CW 100+25.50 TO CW 100+83.78																
PD1-6	CW 100+35.62 TO CW 100+75.95																
PD1-7	CW 101+17.19 TO CW 101+44.01																
PD1-8	CW 101+31.75 TO CW 101+64.06																
PD2-1	CW 96+03.12 (6.3' LT) TO CW 96+25.05 (5.0' LT)	8								1.6					7.8	8	1,4,5,9
PD2-2	CW 96+18.89 (9.0' LT) TO CW 96+31.87 (5.0' LT)		11							0.5			11.2				1,2,3,9
PD2-3	CW 96+40.73 (5.0' RT) TO CW 96+77.32 (15.7' RT)	17								3.4					16.5	8	1,4,5,9
PD2-4	CW 96+65.40 (5.0' RT) TO CW 96+79.26 (9.0' RT)		17							0.7			17				1,2,3,9
PD2-5	CW 98+64.27 (9.0' LT) TO CW 98+82.88 (5.0' LT)			14						0.3				14.4			1,2,3,9
PD2-6	CW 98+68.86 (9.5' LT) TO CW 99+07.59 (5.0' LT)	11								2.3					11.1		1,4,5,9
PD2-7	CW 99+33.76 (5.0' RT) TO CW 99+53.84 (9.0' RT)			20						0.5				20.3			1,2,3,9
PD2-8	CW 100+33.90 (9.0' RT) TO CW 100+34.35 (5.0' RT)			10						0.2				10			1,2,3,9
PD2-9	CW 100+35.46 (5.0' LT) TO CW 100+35.90 (9.0' LT)			4						0.1				4			1,2,3,9
PD2-10	CW 100+73.73 (8.0' RT) TO CW 100+73.99 (5.0' RT)			3						0.1				3			1,2,3,9
PD2-11	CW 100+74.40 (5.0' LT) TO CW 100+74.89 (8.1' LT)			4						0.1				4			1,2,3,9
PD2-12	CW 101+18.49 (10.6' LT) TO CW 101+24.04 (5.0' LT)			8						0.2				7.8			1,2,3,9
	SHEET TOTAL	36	28	63		47	11	176		10	2	8	28.2	63.5	35.4	16	

GENERAL NOTES:

1. SEE SPECIAL PROVISIONS
2. SEE CITY OF CHENEY STD. PLAN A-1 ROADWAY SECTION - CURBED
3. SEE CITY OF CHENEY STD. PLAN A-2 CURBS AND GUTTERS
4. SEE CITY OF CHENEY STD. PLAN A-3 CEMENT CONCRETE SIDEWALKS
5. SEE STD. PLAN F-45.10-03 DETECTABLE WARNING SURFACE
6. SEE STD. PLAN I-30.30-02 WATTLE INSTALLATION ON SLOPE
7. SEE STD. PLAN I-40.20-00 STORM DRAIN INLET PROTECTION
8. SEE DETAIL A ON SHEET SP1
9. REPLACE CSTC WITH CSBC

DESIGNED BY	R. CRANFORD				
ENTERED BY	R. RAGAZA-BOURASSA				
CHECKED BY	L. RASMUSSEN, P.E.				
PROJ. ENGR.	J. BIGGS, P.E.				
REGION ADM.	T. TREPANIER, P.E.				
		DATE	DATE	REVISION	BY

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

JOB NUMBER 23Z021

CONTRACT NO. XL5170

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

QUANTITY TABULATION - SITE PREPARATION & PAVING

QTSP 1

SHEET 10 OF 36 SHEETS

QUANTITY TABULATION - SITE PREPARATION & PAVING

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

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

CODE	LOCATION ➢ \ UNIT OF MEASURE ➢	REMOVING CEMENT CONC. SIDEWALK	REMOVING CEMENT CONC. CURB AND GUTTER	REMOVING CEMENT CONC. CURB		REMOVING PLASTIC LINE	REMOVING PLASTIC TRAFFIC MARKING	REMOVING PLASTIC CROSSWALK LINE		CRUSHED SURFACING BASE COURSE	INLET PROTECTION	WATTLE	CEMENT CONC. TRAFFIC CURB AND GUTTER	CEMENT CONC. TRAFFIC CURB	CEMENT CONC. SIDEWALK	DETECTABLE WARNING SURFACE	SEE GENERAL NOTES
		S.Y.	L.F.	L.F.		L.F.	EACH	S.F.		TON	EACH	L.F.	L.F.	L.F.	S.Y.	S.F.	
PD2-13	CW 101+31.75 (5.0' RT) TO CW 101+34.16 (7.5' RT)			4						0.1				3.5			1,2,3,9
PD2-14	CW 101+43.37 (7.2' LT) TO CW 101+45.47 (5.0' LT)		4							0.2			3.8				1,2,3,9
PD2-15	CW 101+57.82 (5.0' RT) TO CW 101+61.52 (8.2' RT)		4							0.2			4.4				1,2,3,9
SD1-1	CW 100+16.80 (12.7' RT) TO CW 100+33.85 (5.0' RT)	6								1.3					6.3	8	1,4,5,9
SD1-2	CW 100+19.42 (5.0' LT) TO CW 100+35.12 (6.5' LT)	7								1.5					7.4	8	1,4,5,9
SD1-3	CW 100+74.23 (8.0' RT) TO CW 100+77.00 (5.0' RT)	1								0.2					0.9		1,4,9
SD1-4	CW 101+14.55 (7.3' LT) TO CW 101+20.69 (7.5' LT)	1								0.2					1		1,4,9
SD1-5	CW 101+29.66 (12.0' RT) TO CW 101+33.81 (7.9' RT)	2								0.5					2.3		1,4,9
SD1-6	CW 101+44.80 (8.5' LT) TO CW 101+54.58 (5.0' LT)	4								0.8					3.6		1,4,9
	SHEET TOTAL	21	8	4						5			8.2	3.5	21.5	16	
	PROJECT TOTAL	57	36	67		47	11	176		15	2	8	36.4	67	56.9	32	

GENERAL NOTES:

1. SEE SPECIAL PROVISIONS
2. SEE CITY OF CHENEY STD. PLAN A-1 ROADWAY SECTION - CURBED
3. SEE CITY OF CHENEY STD. PLAN A-2 CURBS AND GUTTERS
4. SEE CITY OF CHENEY STD. PLAN A-3 CEMENT CONCRETE SIDEWALKS
5. SEE STD. PLAN F-45.10-03 DETECTABLE WARNING SURFACE
6. SEE STD. PLAN I-30.30-02 WATTLE INSTALLATION ON SLOPE
7. SEE STD. PLAN I-40.20-00 STORM DRAIN INLET PROTECTION
8. SEE DETAIL A ON SHEET SP1
9. REPLACE CSTC WITH CSBC

		DATE	DATE	REVISION	BY
DESIGNED BY	R. CRANFORD				
ENTERED BY	R. RAGAZA-BOURASSA				
CHECKED BY	L. RASMUSSEN, P.E.				
PROJ. ENGR.	J. BIGGS, P.E.				
REGION ADM.	T. TREPANIER, P.E.				

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

JOB NUMBER 23Z021

CONTRACT NO. XL5170

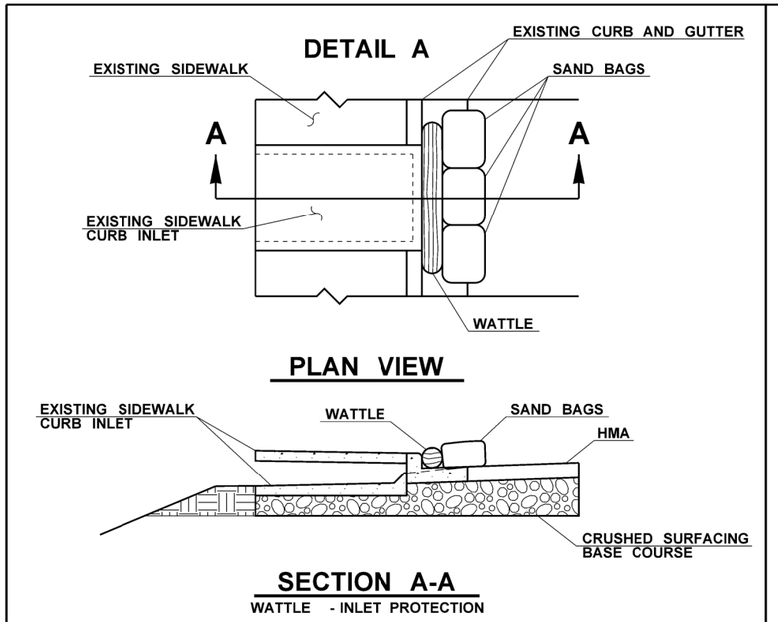
Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

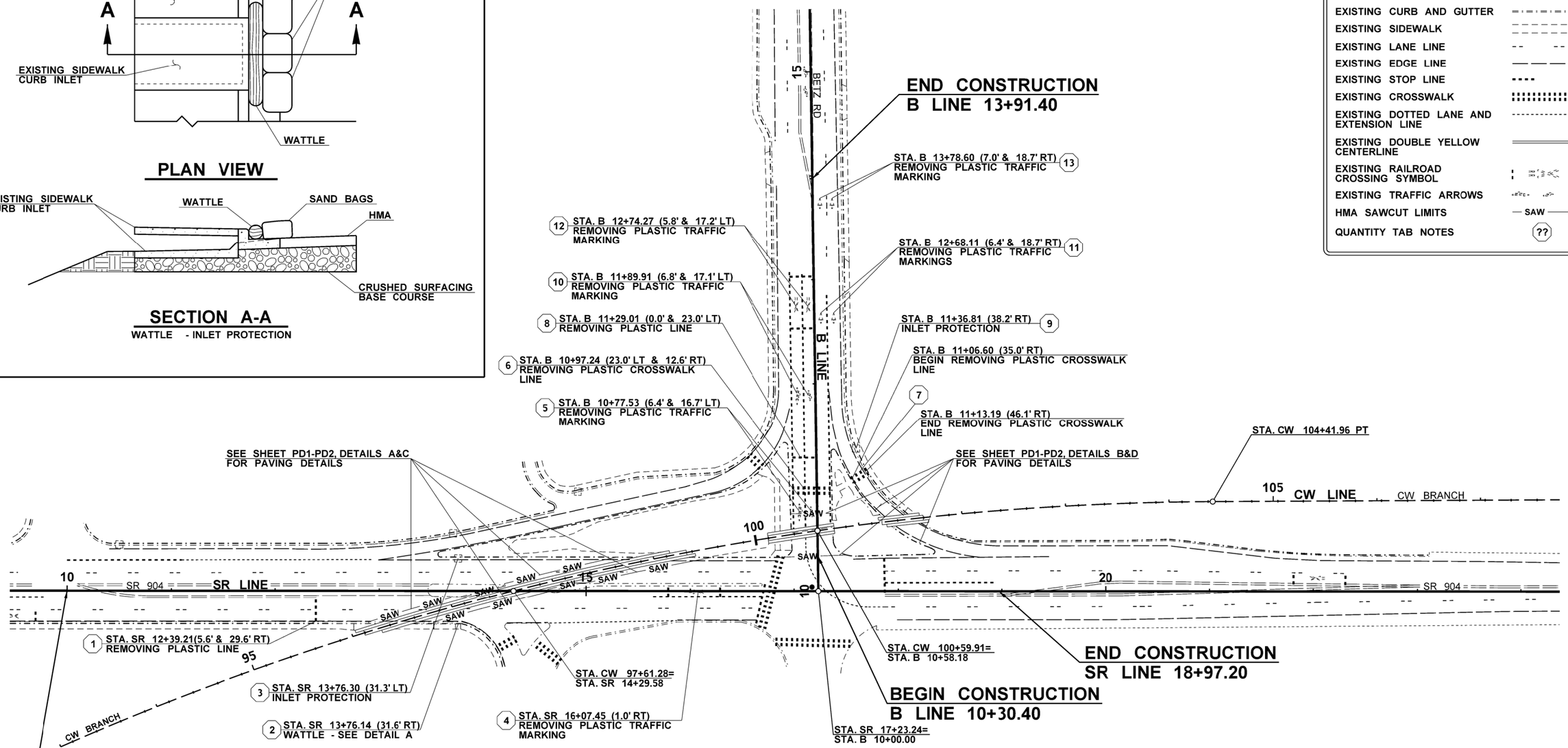
QUANTITY TABULATION - SITE PREPARATION & PAVING

QTSP 2

SHEET 11 OF 36 SHEETS



SPOKANE COUNTY
T. 23N. R. 41E. W.M.



LEGEND

CONSTRUCTION TRACK ALIGNMENT	50
CONSTRUCTION ROAD ALIGNMENT	50
EXISTING CURB AND GUTTER	
EXISTING SIDEWALK	
EXISTING LANE LINE	
EXISTING EDGE LINE	
EXISTING STOP LINE	
EXISTING CROSSWALK	
EXISTING DOTTED LANE AND EXTENSION LINE	
EXISTING DOUBLE YELLOW CENTERLINE	
EXISTING RAILROAD CROSSING SYMBOL	
EXISTING TRAFFIC ARROWS	
HMA SAWCUT LIMITS	SAW
QUANTITY TAB NOTES	??

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney SR904_BETZ RD PS_SP_RRB.dgn						
TIME	8:01:30 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	10/5/2023				JOB NUMBER 23Z021		
PLOTTED BY	RagazaR						
DESIGNED BY	P.R. PAINTNER				CONTRACT NO.	LOCATION NO. XL5170	
ENTERED BY	R. RAGAZA-BOURASSA						
CHECKED BY	L. RASMUSSEN, P.E.						
PROJ. ENGR.	J. BIGGS, P.E.						
REGIONAL ADM.	T. TREPANIER, P.E.	REVISION	DATE	BY			

JASON BIGGS — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

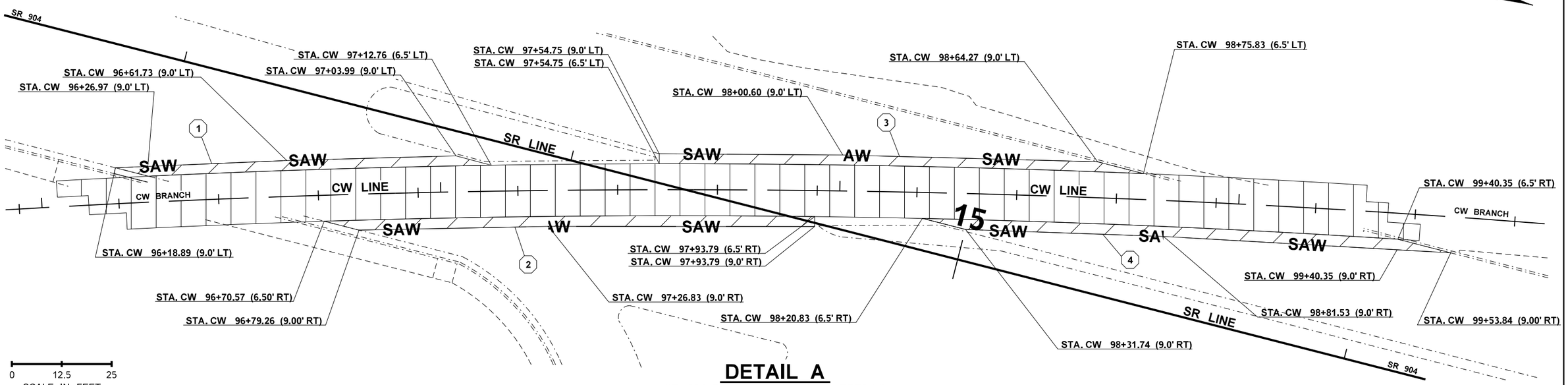
Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

SITE PREPARATION & PAVING PLAN

Plot 1
PLAN REF NO SP1
SHEET 12 OF 36 SHEETS

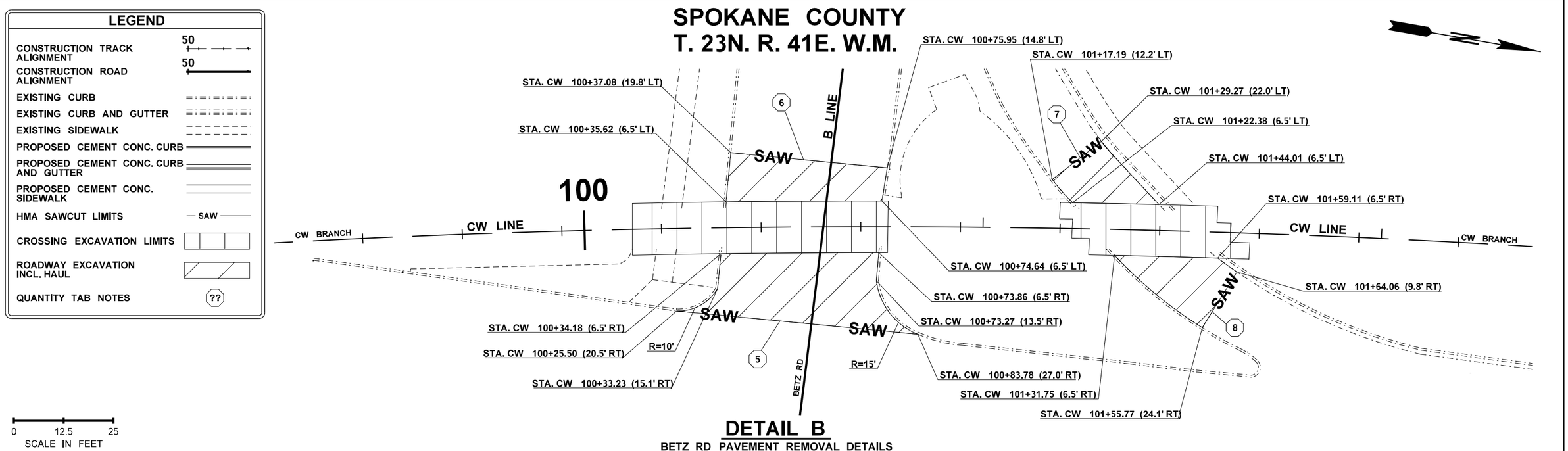
SPOKANE COUNTY
T. 23N. R. 41E. W.M.



DETAIL A

SR 904 PAVEMENT REMOVAL DETAILS

SPOKANE COUNTY
T. 23N. R. 41E. W.M.



DETAIL B

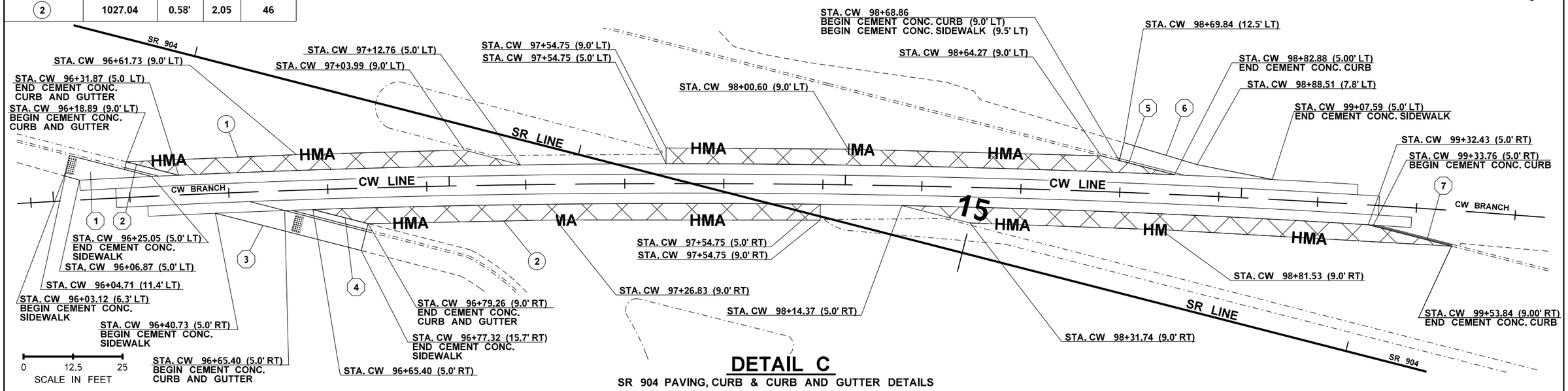
BETZ RD PAVEMENT REMOVAL DETAILS

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney SR904_BETZ RD PS_PV.dgn				REGION NO.	STATE	FED.AID PROJ.NO.	SEE SHEET CT1	Washington State Department of Transportation	2023 CW BRANCH SR 904 BETZ RD CROSSING - PCC	Plot 11
TIME	11:31:57 AM							DATE			PLAN REF NO PD1
DATE	10/18/2023				10	WASH					
PLOTTED BY	RagazaR				JOB NUMBER 23Z021						SHEET 13 OF 36 SHEETS
DESIGNED BY	R. CRANFORD										
ENTERED BY	R. RAGAZA-BOURASSA										
CHECKED BY	B. BAILEY				CONTRACT NO.		LOCATION NO. XL5170	P.E. STAMP BOX	P.E. STAMP BOX DATE	PAVING DETAIL	
PROJ. ENGR.	J. BIGGS, P.E.										
REGIONAL ADM.	T. TREPANIER, P.E.	REVISION	DATE	BY							

HMA PAVING QUANTITIES

HMA PAVING NOTE	AREA (SF)	DEPTH	T/CY	TONS
1	863.54	0.58'	2.05	39
2	1027.04	0.58'	2.05	46

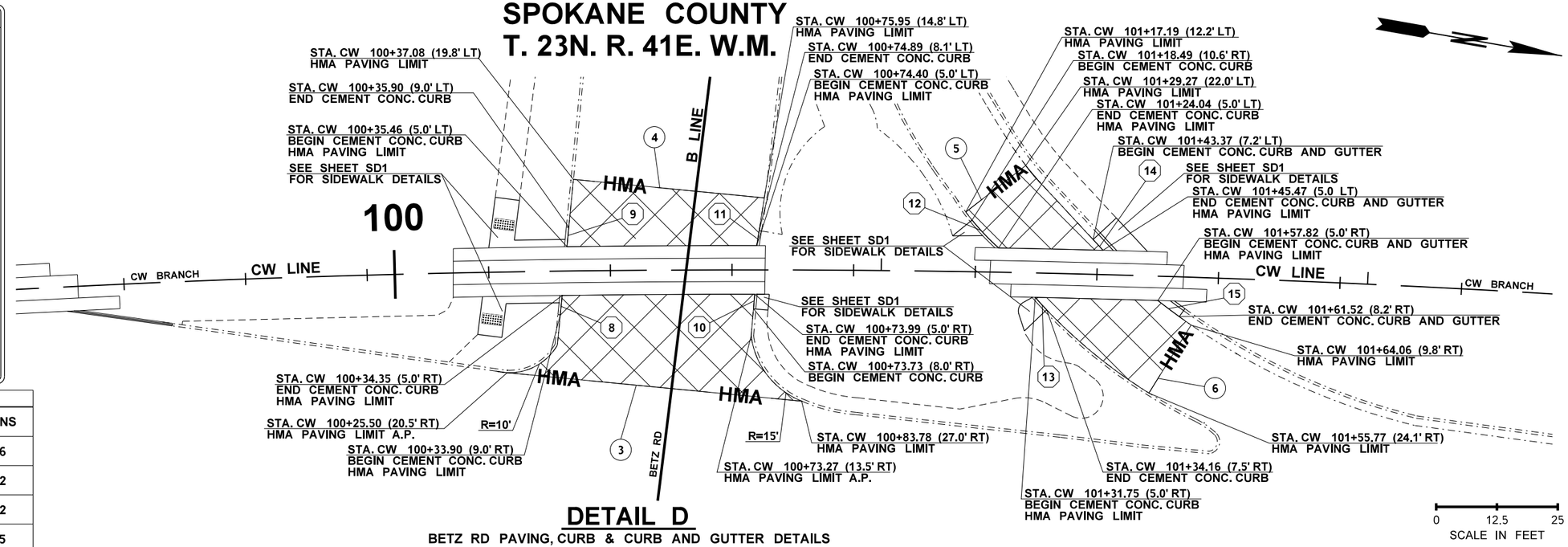
SPOKANE COUNTY
T. 23N. R. 41E. W.M.



DETAIL C

SR 904 PAVING, CURB & CURB AND GUTTER DETAILS

SPOKANE COUNTY
T. 23N. R. 41E. W.M.



DETAIL D

BETZ RD PAVING, CURB & CURB AND GUTTER DETAILS

LEGEND

CONSTRUCTION TRACK ALIGNMENT	50
CONSTRUCTION ROAD ALIGNMENT	50
EXISTING CURB	
EXISTING CURB AND GUTTER	
EXISTING SIDEWALK	
PROPOSED CEMENT CONC. CURB	
PROPOSED CEMENT CONC. CURB AND GUTTER	
PROPOSED CEMENT CONC. SIDEWALK	
HMA SAWCUT LIMITS	— HMA —
COMMERCIAL HMA	
QUANTITY TAB NOTES	??
HMA PAVING NOTES SEE SHEET CS1	??

HMA PAVING QUANTITIES

HMA PAVING NOTE	AREA (SF)	DEPTH	T/CY	TONS
3	797.87	0.58'	2.05	36
4	483.06	0.58'	2.05	22
5	259.54	0.58'	2.05	12
6	332.64	0.58'	2.05	15

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney SR904_BETZ RD PS_PV.dgn
TIME	11:32:21 AM
DATE	10/18/2023
PLOTTED BY	RagazaR
DESIGNED BY	R. CRANFORD
ENTERED BY	R. RAGAZA-BOURASSA
CHECKED BY	B. BAILEY
PROJ. ENGR.	J. BIGGS, P.E.
REGIONAL ADM.	T. TREPANIER, P.E.

REVISION | DATE | BY

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

JOB NUMBER 23Z021

CONTRACT NO.

LOCATION NO. XL5170

JASON BIGGS — STATE OF WASHINGTON — 40757 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

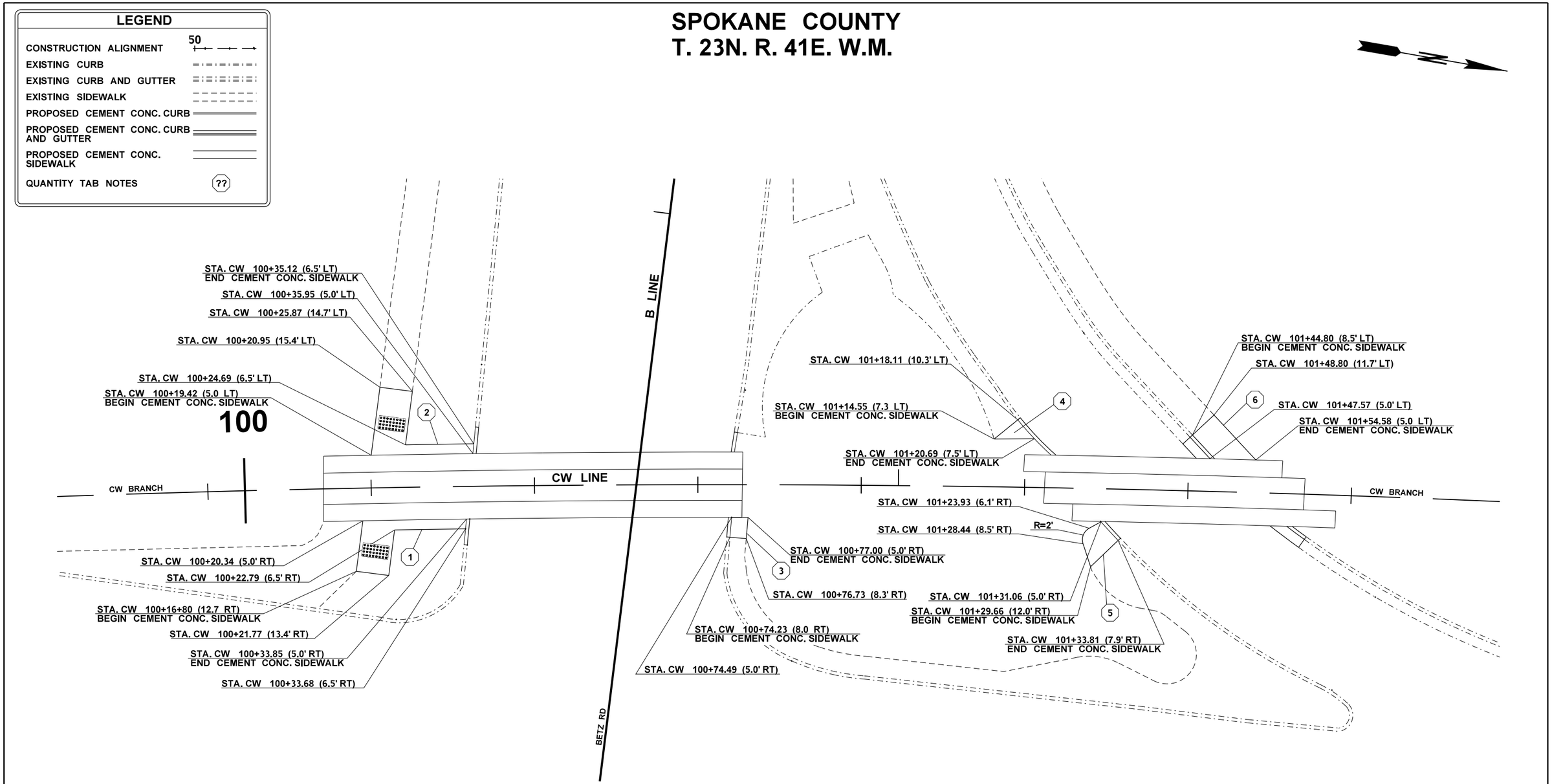
PAVING DETAIL

Plot 12

PLAN REF NO PD2

SHEET 14 OF 36 SHEETS

SPOKANE COUNTY
T. 23N. R. 41E. W.M.



BETZ RD SIDEWALK DETAIL

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney SR904_BETZ RD PS_PV.dgn						
TIME	8:47:18 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	10/4/2023						
PLOTTED BY	CranforR				JOB NUMBER 23Z021		
DESIGNED BY	R. CRANFORD						
ENTERED BY	R. RAGAZA-BOURASSA						
CHECKED BY	B. BAILEY				CONTRACT NO.		LOCATION NO. XL5170
PROJ. ENGR.	J. BIGGS, P.E.						
REGIONAL ADM.	T. TREPANIER, P.E.	REVISION	DATE	BY			

JASON BIGGS — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

SIDEWALK DETAIL - BETZ RD

Plot 13

PLAN REF NO SD1

SHEET 15 OF 36 SHEETS

QUANTITY TABULATION - PAVEMENT MARKING

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

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

CODE	LOCATION ➢ \ UNIT OF MEASURE ➢	PAINT LINE		PLASTIC CROSSWALK LINE		PLASTIC STOP LINE		PLASTIC TRAFFIC ARROW		PLASTIC RAILROAD CROSSING SYMBOL		PAINTED WIDE LINE					SEE GENERAL NOTES
		L.F.		S.F.		L.F.		EACH		EACH		L.F.					
PM1-1	SR 10+00.00 (29.5' RT) TO SR 11+10.00 (29.7' LT)											110					1
PM1-2	SR 10+00.00 (17.2' LT) TO SR 16+83.22 (18.7' LT)	690															1
PM1-3	SR 10+00.00 (18.5' RT) TO SR 16+66.89 (16.8' RT)	670															1
PM1-4	SR 10+00.00 (29.6' RT) TO SR 13+79.66 (29.6' RT)	380															1
PM1-5	SR 10+09.68 (5.8' LT) TO SR 13+48.56 (5.8' LT)	340															1
PM1-6	SR 10+09.68 (5.8' LT) TO SR 13+48.56 (5.4' RT)	340															1
PM1-7	SR 11+10.00 (29.7' LT) TO SR 12+99.00 (29.8' LT)	190															1
PM1-8	SR 12+39.21 (5.6' RT) TO SR 12+39.21 (29.6' RT)					24											5,6
PM1-9	SR 12+99.00 (29.8' LT) TO SR 16+84.34 (29.3' LT)	390															1
PM1-10	SR 14+23.21 (31.0' RT) TO SR 14+62.87 (30.8' RT)	40															1
PM1-11	SR 15+64.21 (5.7' RT) TO SR 16+69.42 (5.4' RT)											110					1
PM1-12	SR 15+87.51 (28.2' RT) TO SR 16+64.33 (28.3' RT)	80															1
PM1-13	SR 16+07.45 (1.0' RT)									1							4,6
PM1-14	SR 17+11.06 (51.5' LT) TO SR 17+86.68 (15.6' RT)	120															1
PM1-15	B 10+30.40 (155.8' RT) TO B 12+00.72 (12.3' RT)	250															1
PM1-16	B 10+40.98 (175.4' RT) TO B 13+91.40 (24.0' RT)	440															1
PM1-17	B 10+60.21 (22.8' LT) TO B 13+08.19 (23.3' LT)											260					1
PM1-18	B 10+61.74 (11.4' LT) TO B 13+08.19 (11.3' LT)											260					1
PM1-19	B 10+63.22 (0.0') TO B 13+91.40 (0.0)	330															1
PM1-20	B 10+64.81 (12.6' RT) TO B 12+85.11 (12.1' RT)											220					1
PM1-21	B 10+77.53 (6.4' LT & 16.7' LT)							2									3,6
PM1-22	B 10+97.24 (29.3' LT) TO B 10+97.24 (12.6' RT)			128													2,6
PM1-23	B 11+06.60 (35.0' RT) TO B 11+13.19 (46.1' RT)			48													2,6
PM1-24	B 11+29.01 (23.0' LT) TO B 11+29.01 (0.0')					23											5,6
PM1-25	B 11+89.91 (6.8' LT & 17.1' LT)							2									3,6
PM1-26	B 12+68.11 (6.4' RT & 18.7' RT)							2									3,6
PM1-27	B 12+74.27 (5.8' LT & 18.7' LT)									2							4,6
PM1-28	B 12+85.11 (12.1' RT) TO B 13+91.40 (12.0' RT)	110															1
PM1-29	B 13+78.60 (7.0' RT & 18.7' RT)							2									3,6
	SHEET TOTAL	4370		176		47		8		3		960					
	PROJECT TOTAL	4370		176		47		8		3		960					

GENERAL NOTES:

1. SEE STD. PLAN M-20.10-02 LONGITUDINAL MARKING PATTERNS
2. SEE STD. PLAN M-15.10-01 CROSSWALK LAYOUT
3. SEE STD. PLAN M-24.40-02 SYMBOL MARKINGS - TRAFFIC ARROWS FOR LOW SPEED ROADWAYS
4. SEE STD. PLAN M-11.10-04 RAILROAD CROSSING LAYOUT
5. SEE STD. PLAN M-24.60-04 SYMBOL MARKINGS MISCELLANEOUS
6. SEE SPECIAL PROVISIONS

DESIGNED BY	R. CRANFORD					REGION NO.	STATE
ENTERED BY	R. RAGAZA-BOURASSA					10	WASH
CHECKED BY	L. RASMUSSEN, P.E.					**JOB NUMBER**	
PROJ. ENGR.	J. BIGGS, P.E,					23Z021	
REGION ADM.	T. TREPANIER, P.E.					**CONTRACT NO.**	
		DATE	**DATE**	**REVISION**	**BY**	XL5170	

FED. AID PROJ. NO.

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

QUANTITY TABULATION - PAVEMENT MARKING

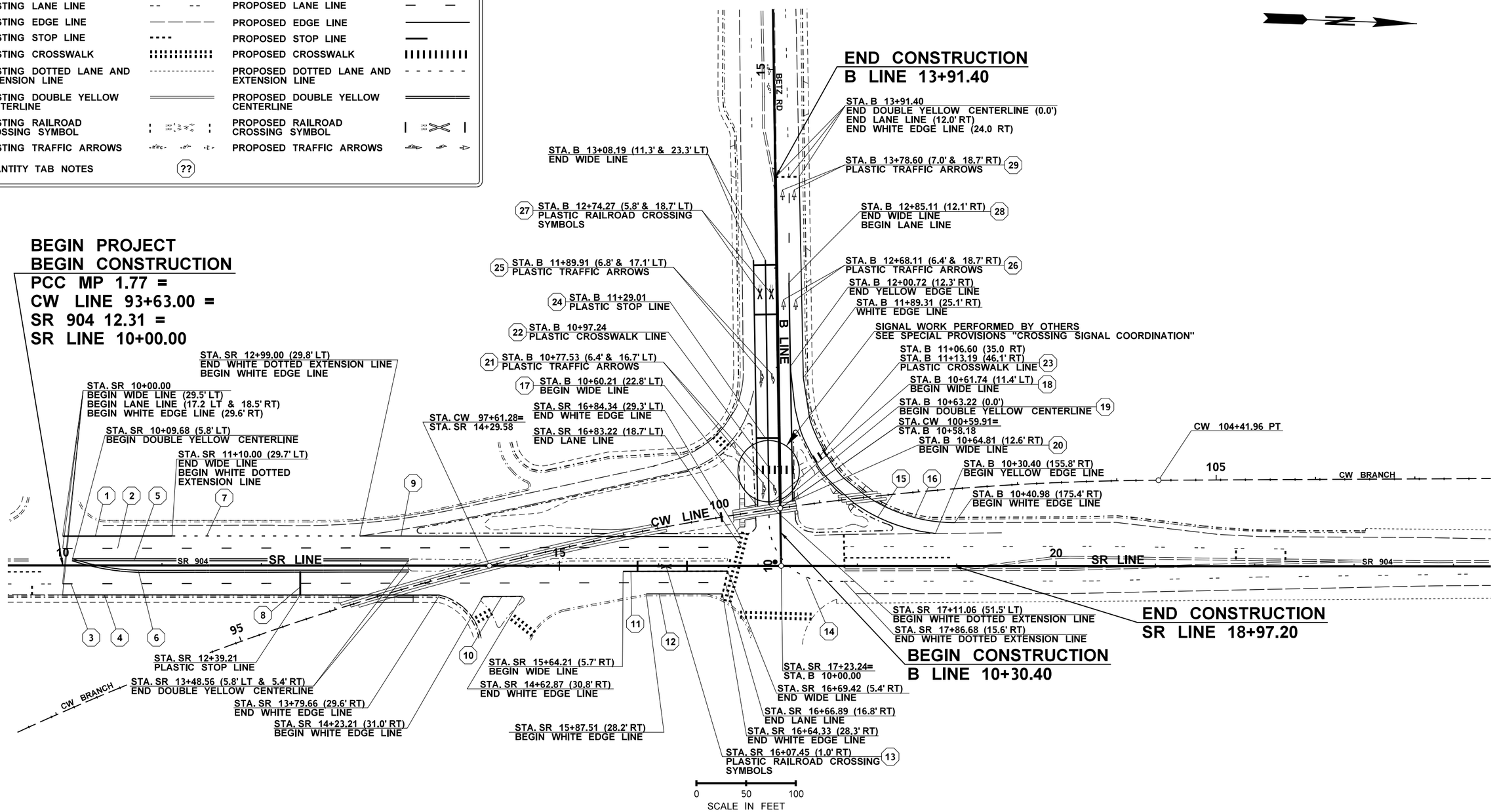
QTPM 1

SHEET 16 **OF** 36 **SHEETS**

LEGEND

CONSTRUCTION ROAD ALIGNMENT	50	CONSTRUCTION TRACK ALIGNMENT	50
EXISTING CURB AND GUTTER		PROPOSED CURB AND GUTTER	
EXISTING SIDEWALK		PROPOSED SIDEWALK	
EXISTING LANE LINE		PROPOSED LANE LINE	
EXISTING EDGE LINE		PROPOSED EDGE LINE	
EXISTING STOP LINE		PROPOSED STOP LINE	
EXISTING CROSSWALK		PROPOSED CROSSWALK	
EXISTING DOTTED LANE AND EXTENSION LINE		PROPOSED DOTTED LANE AND EXTENSION LINE	
EXISTING DOUBLE YELLOW CENTERLINE		PROPOSED DOUBLE YELLOW CENTERLINE	
EXISTING RAILROAD CROSSING SYMBOL		PROPOSED RAILROAD CROSSING SYMBOL	
EXISTING TRAFFIC ARROWS		PROPOSED TRAFFIC ARROWS	
QUANTITY TAB NOTES	??		

SPOKANE COUNTY
T. 23N. R. 41E. W.M.



FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney SR904_BETZ RD PS_PM.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	8:50:42 AM				JOB NUMBER 23Z021		
DATE	10/5/2023				CONTRACT NO.		LOCATION NO. XL5170
PLOTTED BY	RagazaR						
DESIGNED BY	R. CRANFORD						
ENTERED BY	R. RAGAZA-BOURASSA						
CHECKED BY	B. BAILEY						
PROJ. ENGR.	J. BIGGS, P.E.						
REGIONAL ADM.	T. TREPANIER, P.E.	REVISION	DATE	BY			

JASON BIGGS — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

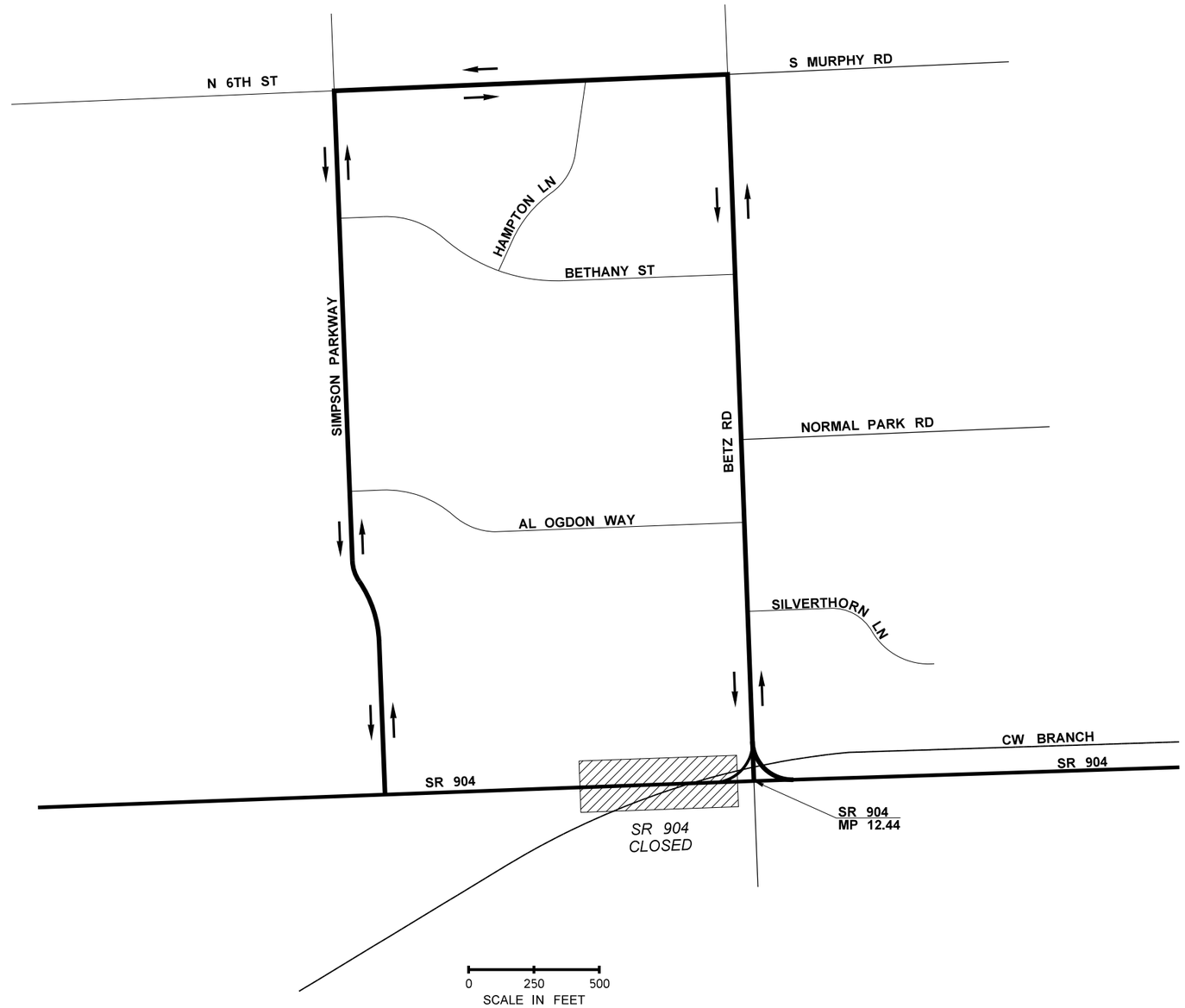
Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

PAVEMENT MARKING PLAN

Plot 1
PLAN REF NO PM1
SHEET 17 OF 36 SHEETS

SPOKANE COUNTY
T. 23N. R. 41E. W.M.
CITY OF CHENEY
PHASE I DETOUR ROUTE HDR-0441



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TIME	3:56:16 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	10/4/2023				JOB NUMBER 23Z021		
PLOTTED BY	RagazaR						
DESIGNED BY	R. CRANFORD				CONTRACT NO.	LOCATION NO. XL5170	
ENTERED BY	R. CRANFORD						
CHECKED BY	P. PAINTNER						
PROJ. ENGR.	J. BIGGS P.E.						
REGIONAL ADM.	T. TREPANIER, P.E.	REVISION	DATE	BY			

JASON BIGGS — STATE OF WASHINGTON — 40786 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

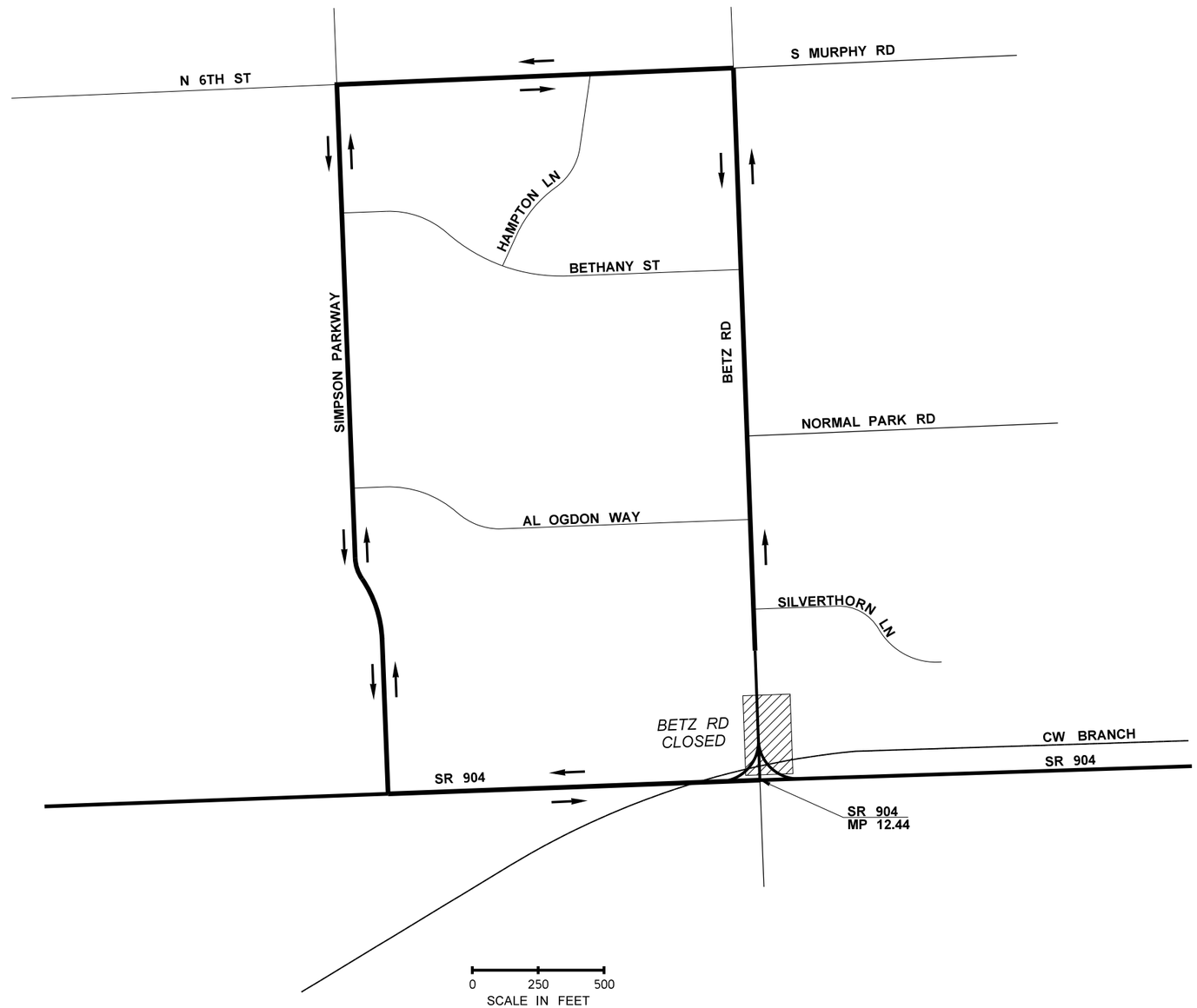
2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

DETOUR PLAN

PLAN REF NO DT1

SHEET 18 OF 36 SHEETS

SPOKANE COUNTY
T. 23N. R. 41E. W.M.
CITY OF CHENEY
PHASE II DETOUR ROUTE HDR-0441



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TIME	3:56:24 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	10/4/2023						
PLOTTED BY	RagazaR				JOB NUMBER 23Z021		
DESIGNED BY	R. CRANFORD						
ENTERED BY	R. CRANFORD						
CHECKED BY	P. PAINTNER				CONTRACT NO.		LOCATION NO. XL5170
PROJ. ENGR.	J. BIGGS, P.E.						
REGIONAL ADM.	T. TREPANIER, P.E.	REVISION	DATE	BY			

JASON BIGGS — STATE OF WASHINGTON — 40786 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

DETOUR PLAN

PLAN REF NO DT2

SHEET 19 OF 36 SHEETS

SPOKANE COUNTY
T. 23N. R. 41E. W.M.

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 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, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

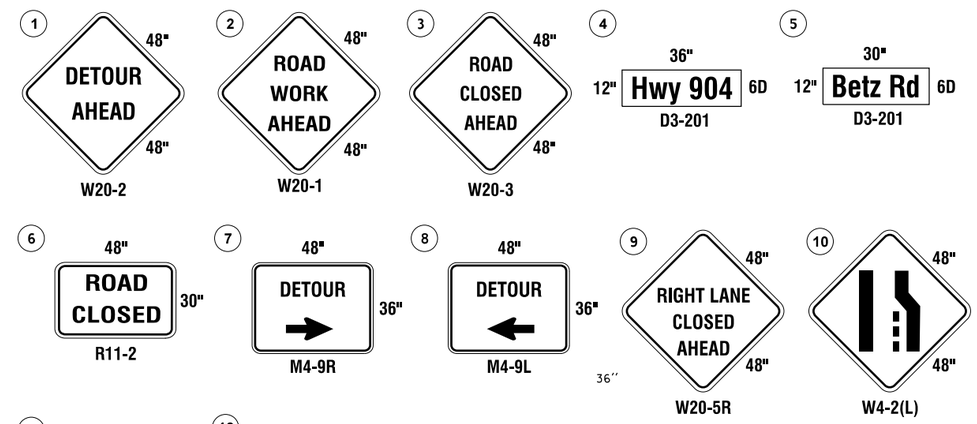
ALL SIGNS ARE 48" x 48" AND BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

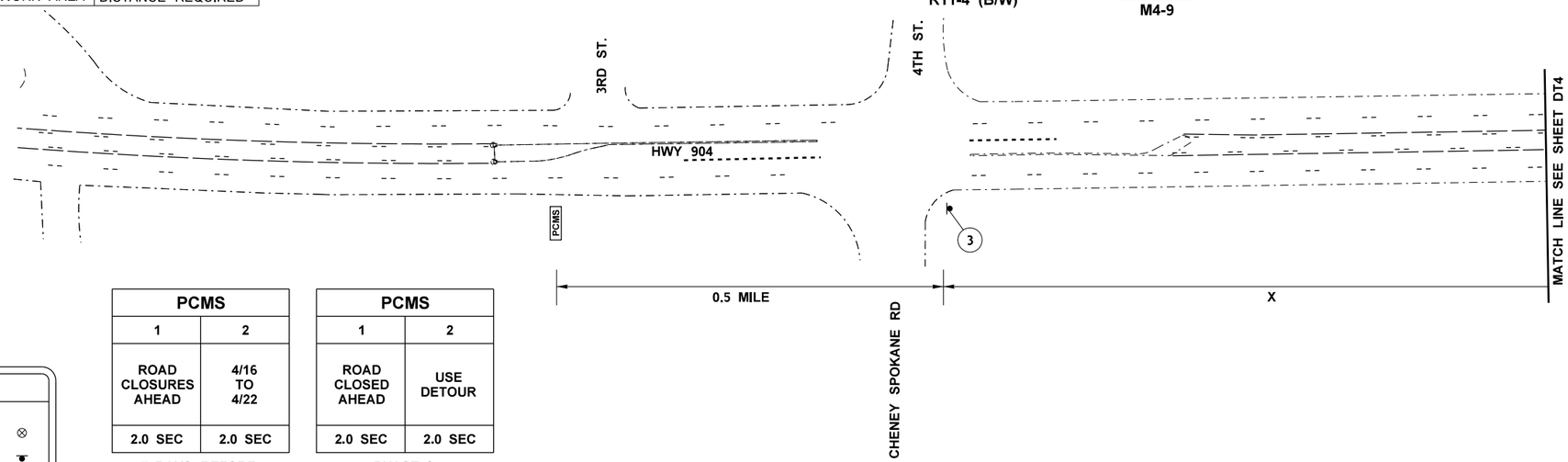
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM TAPER LENGTH = L (feet)					
LANE WIDTH (feet)	Posted Speed (mph)				
	25	30	35	40	45
10	105	150	205	270	450
11	115	165	225	295	495
12	125	180	245	320	540

BUFFER DATA									
LONGITUDINAL BUFFER SPACE = B									
SPEED (MPH)	25	30	35	40	45	- -	- -	- -	- -
LENGTH (feet)	155	200	250	305	360	- -	- -	- -	- -
PROTECTIVE VEHICLE ROLL AHEAD DISTANCE (R) = 30									
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA						NO SPECIFIED DISTANCE REQUIRED			

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





PCMS	
1	2
ROAD CLOSURES AHEAD	4/16 TO 4/22
2.0 SEC	2.0 SEC

7 DAYS BEFORE PHASE I CONSTRUCTION

PCMS	
1	2
ROAD CLOSED AHEAD	USE DETOUR
2.0 SEC	2.0 SEC

PHASE I CONSTRUCTION

FIELD LOCATE 0.5 MILE ± IN ADVANCE OF ROAD CLOSURE SIGNING.

LEGEND	
TRAFFIC DRUM	⊗
CLASS A SIGN	
PORTABLE CHANGEABLE MESSAGE SIGN	PCMS
TYPE 3 BARRICADE	

PHASE I CONSTRUCTION - SR 904 CLOSURE

0 50 100
SCALE IN FEET

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney_PS_TC.dgn
TIME	8:53:59 AM
DATE	10/5/2023
PLOTTED BY	RagazaR
DESIGNED BY	R. CRANFORD
ENTERED BY	R. CRANFORD
CHECKED BY	L. RASMUSSEN, P.E.
PROJ. ENGR.	J. BIGGS, P.E.
REGIONAL ADM.	T. TREPANIER, P.E.

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 23Z021		
CONTRACT NO.		LOCATION NO. XL5170

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

DETOUR PLAN

PLAN REF NO DT3

SHEET 20 OF 36 SHEETS

SPOKANE COUNTY
T. 23N. R. 41E. W.M.

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 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, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

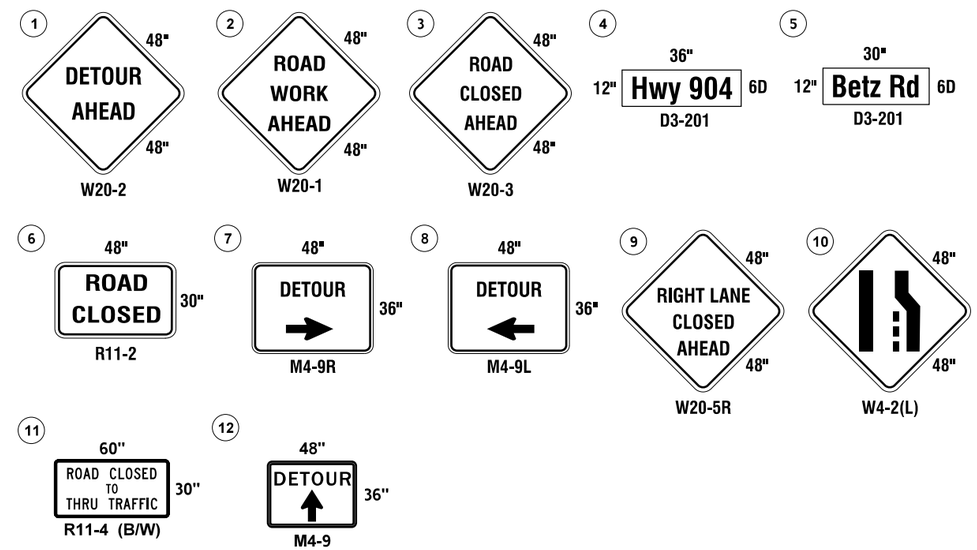
ALL SIGNS ARE 48" x 48" AND BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

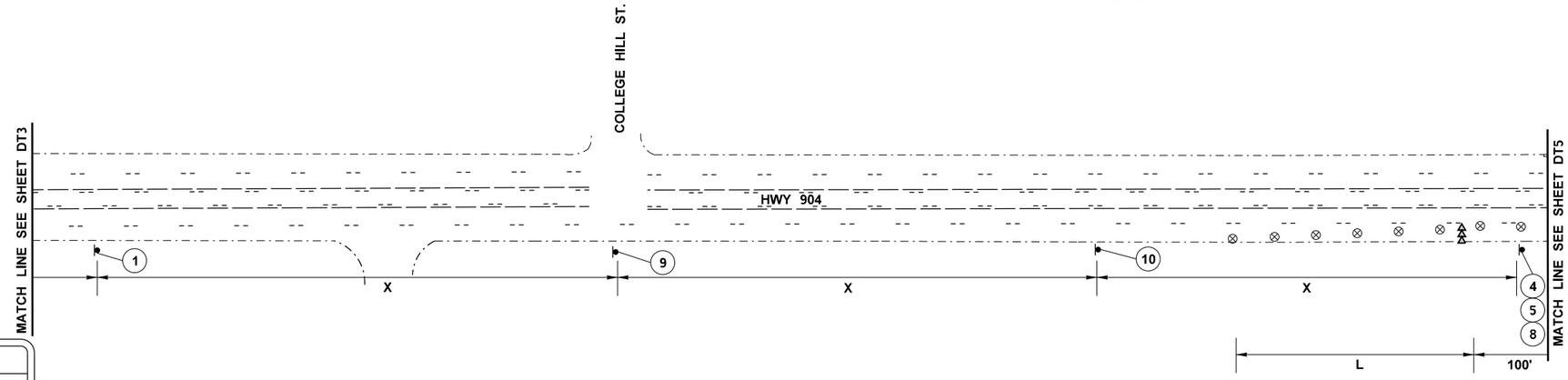
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM TAPER LENGTH = L (feet)					
LANE WIDTH (feet)	Posted Speed (mph)				
	25	30	35	40	45
10	105	150	205	270	450
11	115	165	225	295	495
12	125	180	245	320	540

BUFFER DATA									
LONGITUDINAL BUFFER SPACE = B									
SPEED (MPH)	25	30	35	40	45	- -	- -	- -	- -
LENGTH (feet)	155	200	250	305	360	- -	- -	- -	- -
PROTECTIVE VEHICLE ROLL AHEAD DISTANCE (R) = 30									
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA						NO SPECIFIED DISTANCE REQUIRED			

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





LEGEND	
SEQUENTIAN ARROW SIGH	
TRAFFIC DRUM	
CLASS A SIGN	
PORTABLE CHANGEABLE MESSAGE SIGN	PCMS
TYPE 3 BARRICADE	

PHASE I CONSTRUCTION - SR 904 CLOSURE

0 50 100
SCALE IN FEET

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney_PS_TC.dgn
TIME	8:54:15 AM
DATE	10/5/2023
PLOTTED BY	RagazaR
DESIGNED BY	R. CRANFORD
ENTERED BY	R. CRANFORD
CHECKED BY	L. RASMUSSEN, P.E.
PROJ. ENGR.	J. BIGGS, P.E.
REGIONAL ADM.	T. TREPANIER, P.E.

REVISION | DATE | BY

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

JOB NUMBER 23Z021

CONTRACT NO.

LOCATION NO. XL5170

JASON BIGGS STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

DETOUR PLAN

PLAN REF NO DT4

SHEET 21 OF 36 SHEETS

SPOKANE COUNTY
T. 23N. R. 41E. W.M.

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 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, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

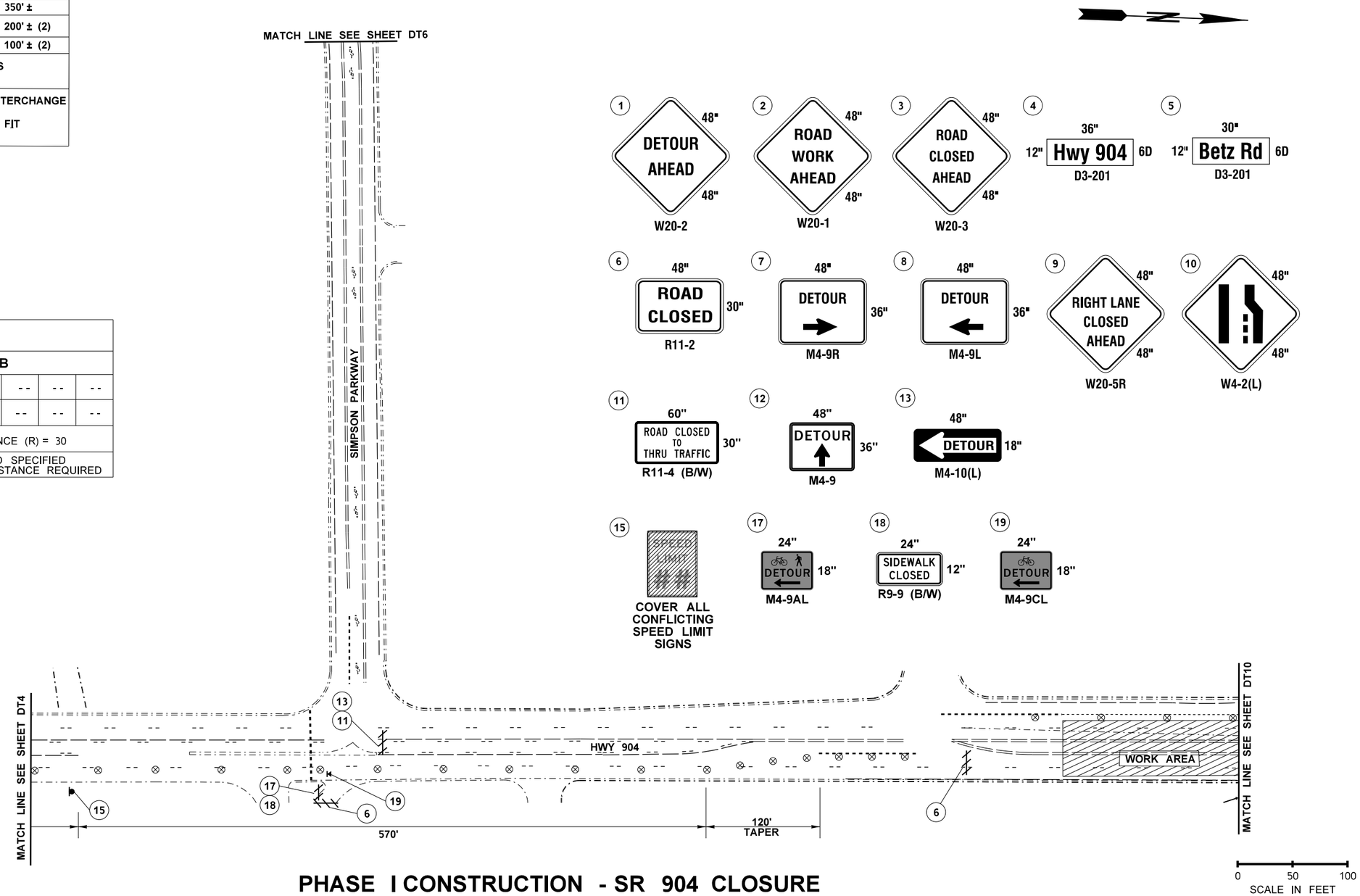
ALL SIGNS ARE 48" x 48" AND BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

(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.

MINIMUM TAPER LENGTH = L (feet)					
LANE WIDTH (feet)	Posted Speed (mph)				
	25	30	35	40	45
10	105	150	205	270	450
11	115	165	225	295	495
12	125	180	245	320	540

BUFFER DATA									
LONGITUDINAL BUFFER SPACE = B									
SPEED (MPH)	25	30	35	40	45	- -	- -	- -	- -
LENGTH (feet)	155	200	250	305	360	- -	- -	- -	- -
PROTECTIVE VEHICLE ROLL AHEAD DISTANCE (R) = 30									
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA						NO SPECIFIED DISTANCE REQUIRED			

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



LEGEND

- TRAFFIC DRUM
- CLASS A SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- TYPE 3 BARRICADE
- TYPE 2 BARRICADE
- PORTABLE SIGN MOUNT

PHASE I CONSTRUCTION - SR 904 CLOSURE

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney_PS_TC.dgn
TIME	8:54:28 AM
DATE	10/5/2023
PLOTTED BY	RagazaR
DESIGNED BY	R, CRANFORD
ENTERED BY	R. CRANFORD
CHECKED BY	L. RASMUSSEN, P.E.
PROJ. ENGR.	J. BIGGS, P.E.
REGIONAL ADM.	T. TREPANIER, P.E.

REVISION | DATE | BY

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

JOB NUMBER 23Z021

CONTRACT NO.

LOCATION NO. XL5170

JASON BIGGS STATE OF WASHINGTON 40786 REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

DETOUR PLAN

PLAN REF NO DT5

SHEET 22 OF 36 SHEETS

SPOKANE COUNTY
T. 23N. R. 41E. W.M.

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 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, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

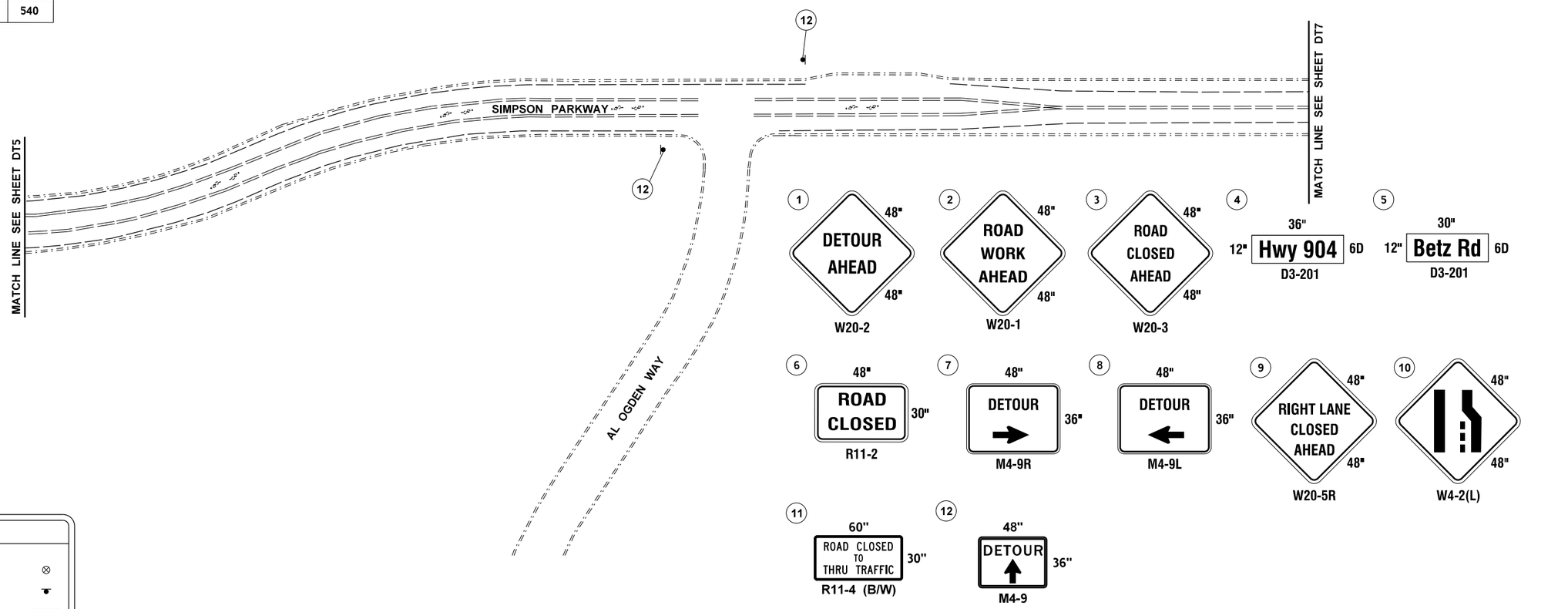
ALL SIGNS ARE 48" x 48" AND BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

(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.

MINIMUM TAPER LENGTH = L (feet)					
LANE WIDTH (feet)	Posted Speed (mph)				
	25	30	35	40	45
10	105	150	205	270	450
11	115	165	225	295	495
12	125	180	245	320	540

BUFFER DATA									
LONGITUDINAL BUFFER SPACE = B									
SPEED (MPH)	25	30	35	40	45	- -	- -	- -	- -
LENGTH (feet)	155	200	250	305	360	- -	- -	- -	- -
PROTECTIVE VEHICLE ROLL AHEAD DISTANCE (R) = 30									
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA						NO SPECIFIED DISTANCE REQUIRED			

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



LEGEND	
TRAFFIC DRUM	⊗
CLASS A SIGN	
PORTABLE CHANGEABLE MESSAGE SIGN	PCMS
TYPE 3 BARRICADE	

PHASE I CONSTRUCTION - SR 904 CLOSURE

0 50 100
SCALE IN FEET

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney_PS_TC.dgn
TIME	8:54:39 AM
DATE	10/5/2023
PLOTTED BY	RagazaR
DESIGNED BY	R. CRANFORD
ENTERED BY	R. CRANFORD
CHECKED BY	L. RASMUSSEN, P.E.
PROJ. ENGR.	J. BIGGS, P.E.
REGIONAL ADM.	T. TREPANIER, P.E.

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 23Z021		
CONTRACT NO.		LOCATION NO. XL5170

JASON BIGGS STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

DETOUR PLAN

PLAN REF NO DT6

SHEET 23 OF 36 SHEETS

SPOKANE COUNTY
T. 23N. R. 41E. W.M.

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 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, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

ALL SIGNS ARE 48" x 48" AND BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

(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.

MINIMUM TAPER LENGTH = L (feet)

LANE WIDTH (feet)	Posted Speed (mph)				
	25	30	35	40	45
10	105	150	205	270	450
11	115	165	225	295	495
12	125	180	245	320	540

BUFFER DATA

LONGITUDINAL BUFFER SPACE = B

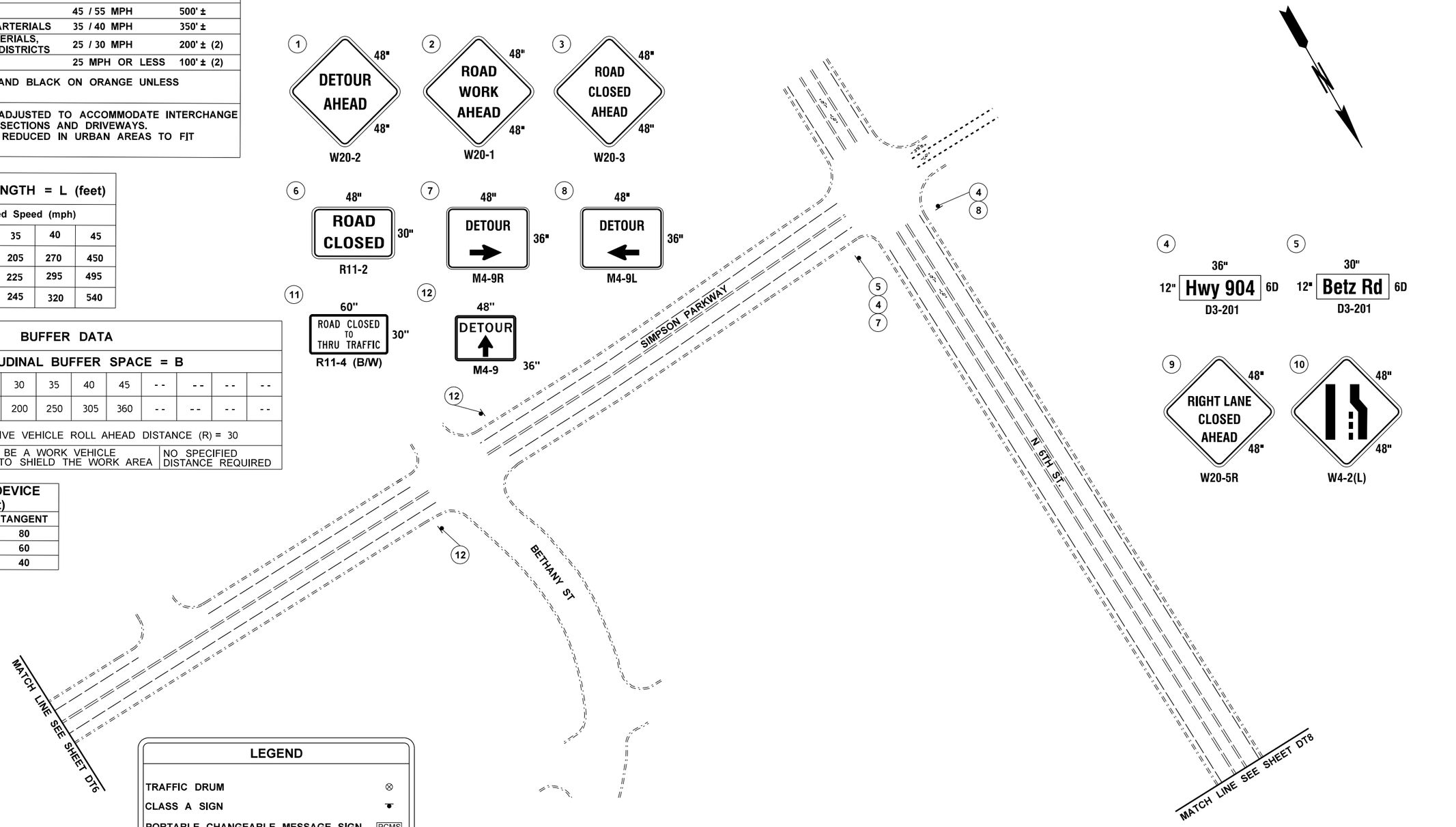
SPEED (MPH)	25	30	35	40	45	- -	- -	- -	- -
LENGTH (feet)	155	200	250	305	360	- -	- -	- -	- -

PROTECTIVE VEHICLE ROLL AHEAD DISTANCE (R) = 30

PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA	NO SPECIFIED DISTANCE REQUIRED

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40



PHASE I CONSTRUCTION - SR 904 CLOSURE

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney_PS_TC.dgn
TIME	8:54:51 AM
DATE	10/5/2023
PLOTTED BY	RagazaR
DESIGNED BY	R. CRANFORD
ENTERED BY	R. CRANFORD
CHECKED BY	L. RASMUSSEN, P.E.
PROJ. ENGR.	J. BIGGS, P.E.
REGIONAL ADM.	T. TREPANIER, P.E.

REVISION | DATE | BY

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

JOB NUMBER 23Z021

CONTRACT NO.

LOCATION NO. XL5170

JASON BIGGS STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

DETOUR PLAN

PLAN REF NO DT7

SHEET 24 OF 36 SHEETS

SPOKANE COUNTY
T. 23N. R. 41E. W.M.

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 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, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

ALL SIGNS ARE 48" x 48" AND BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

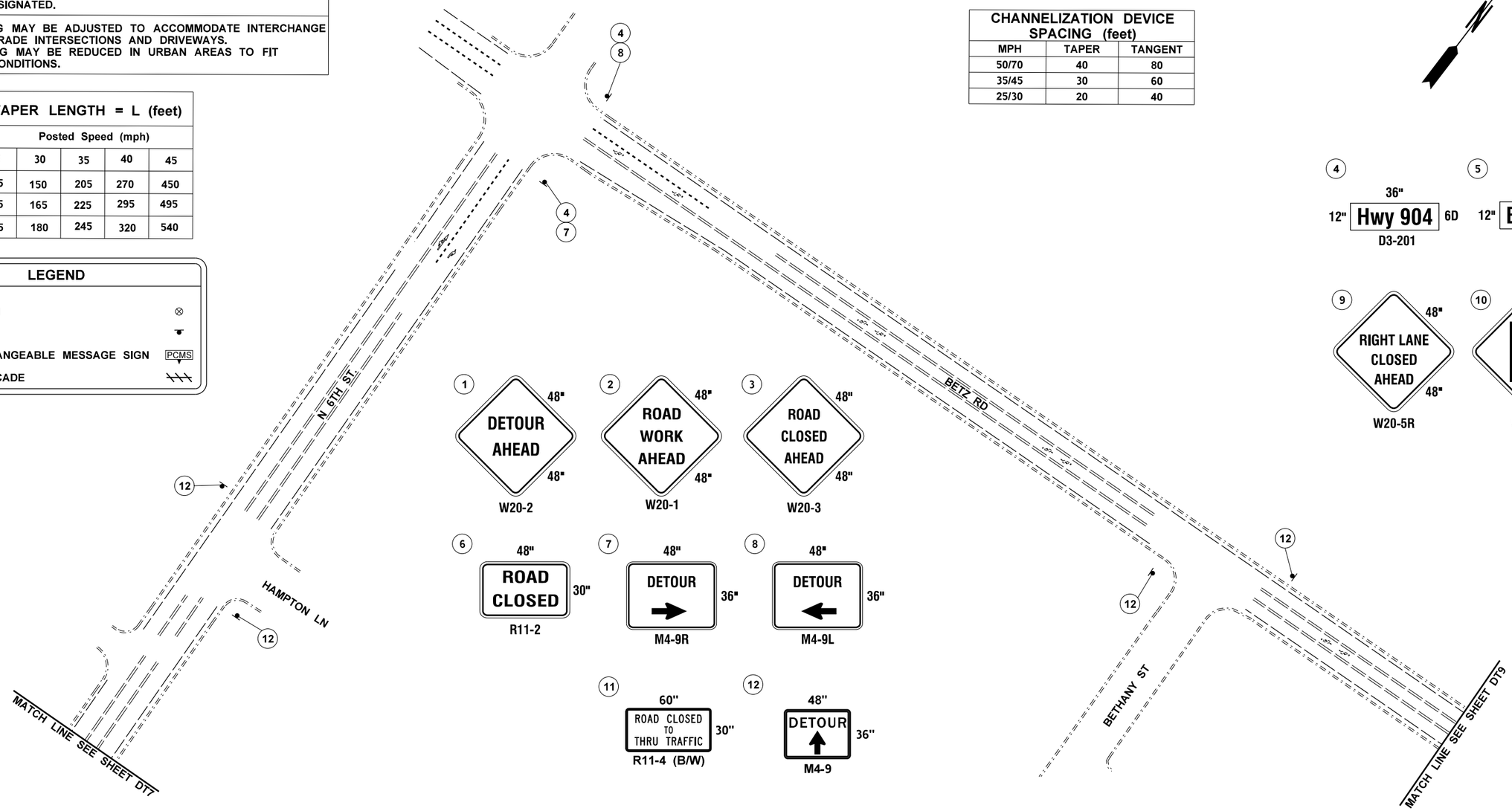
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM TAPER LENGTH = L (feet)					
LANE WIDTH (feet)	Posted Speed (mph)				
	25	30	35	40	45
10	105	150	205	270	450
11	115	165	225	295	495
12	125	180	245	320	540

LEGEND	
TRAFFIC DRUM	⊗
CLASS A SIGN	
PORTABLE CHANGEABLE MESSAGE SIGN	PCMS
TYPE 3 BARRICADE	

BUFFER DATA									
LONGITUDINAL BUFFER SPACE = B									
SPEED (MPH)	25	30	35	40	45	- -	- -	- -	- -
LENGTH (feet)	155	200	250	305	360	- -	- -	- -	- -
PROTECTIVE VEHICLE ROLL AHEAD DISTANCE (R) = 30									
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA						NO SPECIFIED DISTANCE REQUIRED			

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



PHASE I CONSTRUCTION - SR 904 CLOSURE

0 50 100
SCALE IN FEET

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney_PS_TC.dgn
TIME	8:55:25 AM
DATE	10/5/2023
PLOTTED BY	RagazaR
DESIGNED BY	R. CRANFORD
ENTERED BY	R.CRANFORD
CHECKED BY	L. RASMUSSEN, P.E.
PROJ. ENGR.	J. BIGGS, P.E.
REGIONAL ADM.	T. TREPANIER, P.E.

REVISION | DATE | BY

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

JOB NUMBER 23Z021

CONTRACT NO.

LOCATION NO. XL5170

JASON BIGGS STATE OF WASHINGTON 40786 REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

DETOUR PLAN

PLAN REF NO DT8

SHEET 25 OF 36 SHEETS

SPOKANE COUNTY
T. 23N. R. 41E. W.M.

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 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, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

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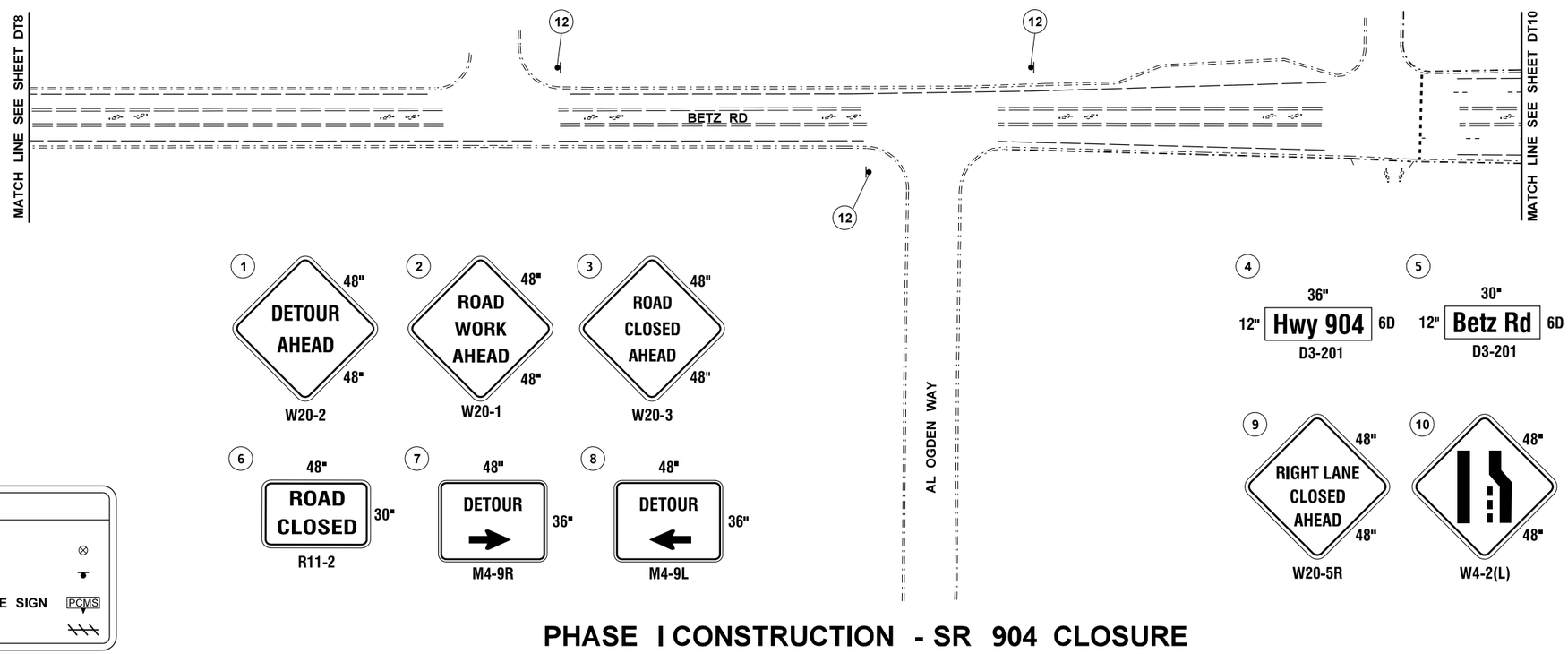
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM TAPER LENGTH = L (feet)					
LANE WIDTH (feet)	Posted Speed (mph)				
	25	30	35	40	45
10	105	150	205	270	450
11	115	165	225	295	495
12	125	180	245	320	540

BUFFER DATA									
LONGITUDINAL BUFFER SPACE = B									
SPEED (MPH)	25	30	35	40	45	- -	- -	- -	- -
LENGTH (feet)	155	200	250	305	360	- -	- -	- -	- -
PROTECTIVE VEHICLE ROLL AHEAD DISTANCE (R) = 30									
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA						NO SPECIFIED DISTANCE REQUIRED			

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

N



LEGEND	
TRAFFIC DRUM	⊗
CLASS A SIGN	
PORTABLE CHANGEABLE MESSAGE SIGN	PCMS
TYPE 3 BARRICADE	

PHASE I CONSTRUCTION - SR 904 CLOSURE

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney_PS_TC.dgn
TIME	8:55:44 AM
DATE	10/5/2023
PLOTTED BY	RagazaR
DESIGNED BY	R. CRANFORD
ENTERED BY	R. CRANFORD
CHECKED BY	L. RASMUSSEN, P.E.
PROJ. ENGR.	J. BIGGS, P.E.
REGIONAL ADM.	T. TREPANIER, P.E.

REVISION | DATE | BY

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

JOB NUMBER 23Z021

CONTRACT NO.

LOCATION NO. XL5170

JASON BIGGS, STATE OF WASHINGTON, 40786, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

P.E. STAMP BOX DATE

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

DETOUR PLAN

PLAN REF NO DT9

SHEET 26 OF 36 SHEETS

SPOKANE COUNTY
T. 23N. R. 41E. W.M.

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 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, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

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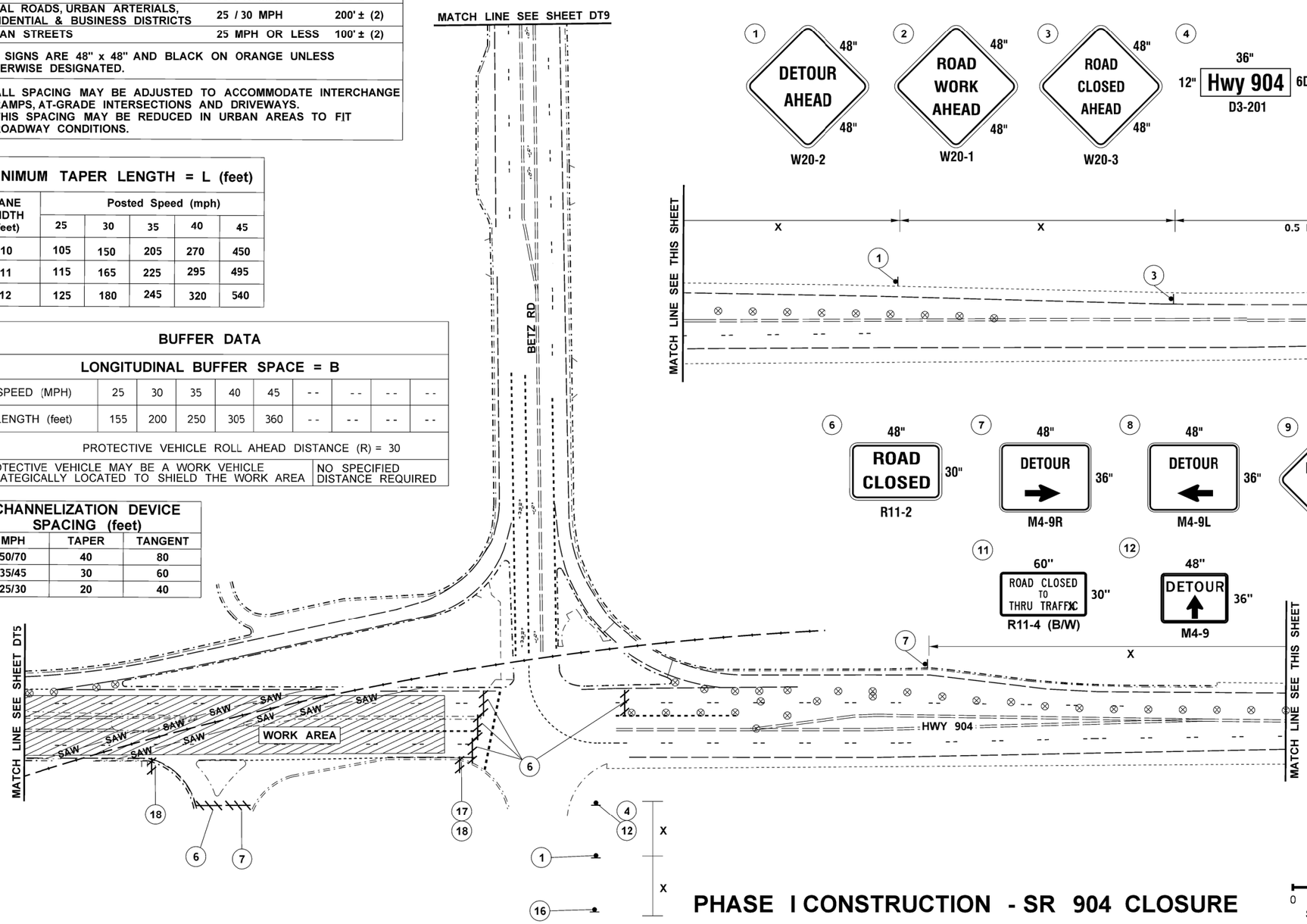
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM TAPER LENGTH = L (feet)					
LANE WIDTH (feet)	Posted Speed (mph)				
	25	30	35	40	45
10	105	150	205	270	450
11	115	165	225	295	495
12	125	180	245	320	540

BUFFER DATA									
LONGITUDINAL BUFFER SPACE = B									
SPEED (MPH)	25	30	35	40	45	- -	- -	- -	- -
LENGTH (feet)	155	200	250	305	360	- -	- -	- -	- -
PROTECTIVE VEHICLE ROLL AHEAD DISTANCE (R) = 30									
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA						NO SPECIFIED DISTANCE REQUIRED			

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



PCMS	
1	2
ROAD CLOSURES AHEAD	4/16 TO 4/22
2.0 SEC	2.0 SEC
7 DAYS BEFORE PHASE I CONSTRUCTION	

PCMS	
1	2
ROAD CLOSED AHEAD	USE DETOUR
2.0 SEC	2.0 SEC
DURING PHASE I CONSTRUCTION	

FIELD LOCATE 0.5 MILE ± IN ADVANCE OF ROAD CLOSURE SIGNING.

LEGEND	
TRAFFIC DRUM	⊗
CLASS A SIGN	
PORTABLE CHANGEABLE MESSAGE SIGN	PCMS
TYPE 3 BARRICADE	
TYPE 2 BARRICADE	

PHASE I CONSTRUCTION - SR 904 CLOSURE

0 50 100
SCALE IN FEET

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney_PS_TC.dgn					
TIME	8:59:55 AM					
DATE	10/5/2023					
PLOTTED BY	RagazaR					
DESIGNED BY	R. CRANFORD					
ENTERED BY	R. CRANFORD					
CHECKED BY	L. RASMUSSEN, P.E.					
PROJ. ENGR.	J. BIGGS, P.E.					
REGIONAL ADM.	T. TREPANIER, P.E.	REVISION	DATE	BY		

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 23Z021		
CONTRACT NO.		LOCATION NO. XL5170

JASON BIGGS — STATE OF WASHINGTON — 40186 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

DETOUR PLAN

PLAN REF NO DT10

SHEET 27 OF 36 SHEETS

SPOKANE COUNTY
T. 23N. R. 41E. W.M.

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 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, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

ALL SIGNS ARE 48" x 48" AND BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

(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.

MINIMUM TAPER LENGTH = L (feet)					
LANE WIDTH (feet)	Posted Speed (mph)				
	25	30	35	40	45
10	105	150	205	270	450
11	115	165	225	295	495
12	125	180	245	320	540

BUFFER DATA									
LONGITUDINAL BUFFER SPACE = B									
SPEED (MPH)	25	30	35	40	45	- -	- -	- -	- -
LENGTH (feet)	155	200	250	305	360	- -	- -	- -	- -
PROTECTIVE VEHICLE ROLL AHEAD DISTANCE (R) = 30									
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA						NO SPECIFIED DISTANCE REQUIRED			

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

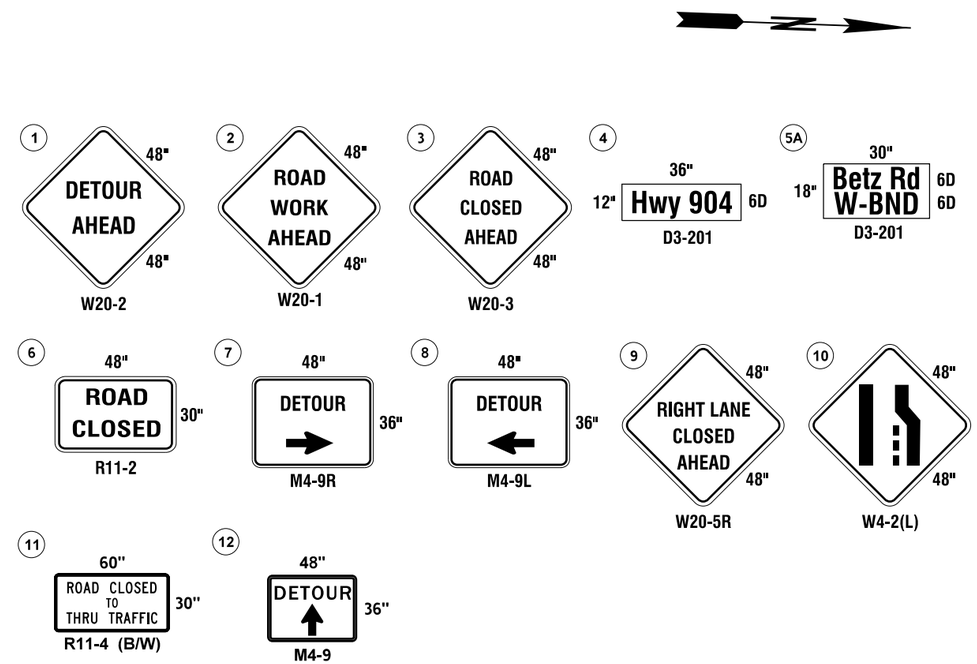
PCMS	
1	2
ROAD CLOSURES AHEAD	4/24 TO 4/29
2.0 SEC	2.0 SEC

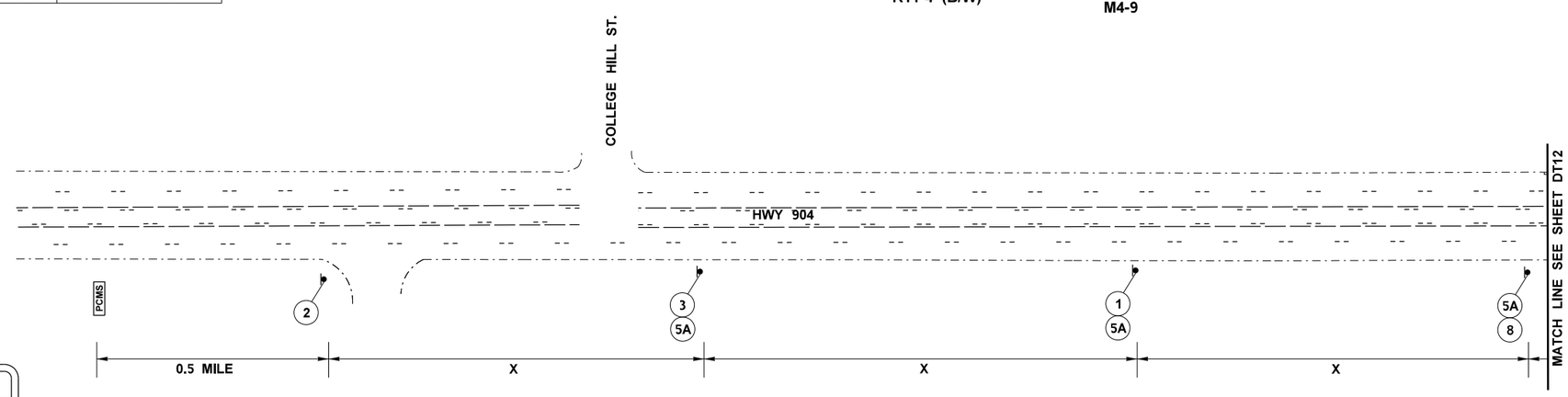
2 DAYS BEFORE PHASE II CONSTRUCTION

PCMS	
1	2
BETZ RD W-BND CLOSED	USE DETOUR
2.0 SEC	2.0 SEC

DURING PHASE II CONSTRUCTION

FIELD LOCATE 0.5 MILE ± IN ADVANCE OF ROAD CLOSURE SIGNING.





LEGEND	
TRAFFIC DRUM	⊗
CLASS A SIGN	
PORTABLE CHANGEABLE MESSAGE SIGN	PCMS
TYPE 3 BARRICADE	

PHASE II CONSTRUCTION - BETZ RD CLOSURE

0 50 100
SCALE IN FEET

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney_PS_TC.dgn
TIME	9:16:07 AM
DATE	10/5/2023
PLOTTED BY	RagazaR
DESIGNED BY	R. CRANFORD
ENTERED BY	R. CRANFORD
CHECKED BY	P. PAINTNER
PROJ. ENGR.	J. BIGGS, P.E.
REGIONAL ADM.	T. TREPANIER, P.E.

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | JOB NUMBER 23Z021 | CONTRACT NO.

FED.AID PROJ.NO.

LOCATION NO. XL5170

JASON BIGGS STATE OF WASHINGTON 40788 REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

DETOUR PLAN

Plot 12
PLAN REF NO DT11
SHEET 28 OF 36 SHEETS

SPOKANE COUNTY
T. 23N. R. 41E. W.M.

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 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, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

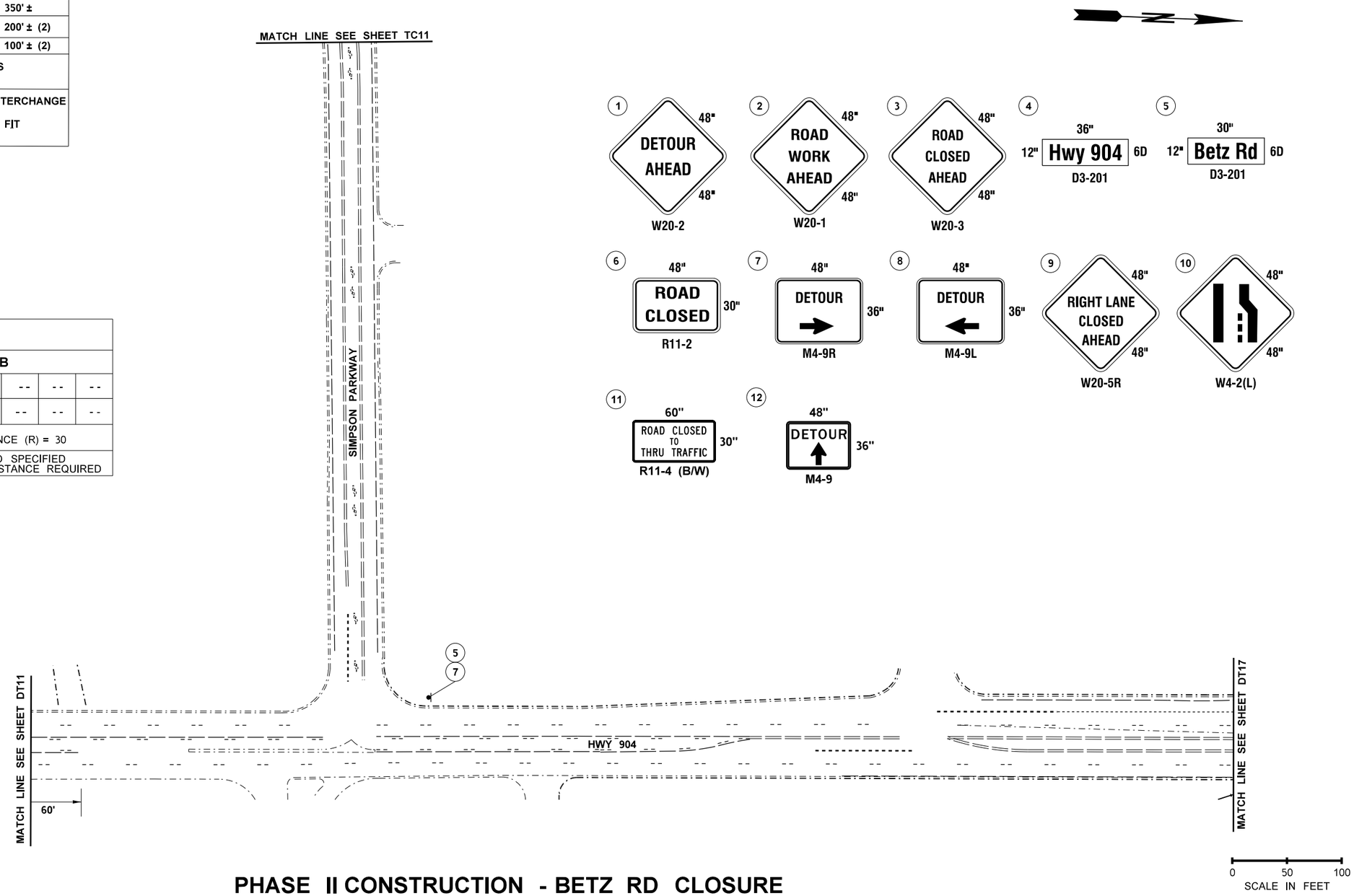
ALL SIGNS ARE 48" x 48" AND BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

(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.

MINIMUM TAPER LENGTH = L (feet)					
LANE WIDTH (feet)	Posted Speed (mph)				
	25	30	35	40	45
10	105	150	205	270	450
11	115	165	225	295	495
12	125	180	245	320	540

BUFFER DATA									
LONGITUDINAL BUFFER SPACE = B									
SPEED (MPH)	25	30	35	40	45	- -	- -	- -	- -
LENGTH (feet)	155	200	250	305	360	- -	- -	- -	- -
PROTECTIVE VEHICLE ROLL AHEAD DISTANCE (R) = 30									
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA						NO SPECIFIED DISTANCE REQUIRED			

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



LEGEND

- TRAFFIC DRUM
- CLASS A SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- TYPE 3 BARRICADE

PHASE II CONSTRUCTION - BETZ RD CLOSURE

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney_PS_TC.dgn
TIME	9:16:23 AM
DATE	10/5/2023
PLOTTED BY	RagazaR
DESIGNED BY	R. CRANFORD
ENTERED BY	R. CRANFORD
CHECKED BY	P. PAINTNER
PROJ. ENGR.	J. BIGGS, P.E.
REGIONAL ADM.	T. TREPANIER, P.E.

REVISION | DATE | BY

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

JOB NUMBER 23Z021

CONTRACT NO.

LOCATION NO. XL5170

JASON BIGGS STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

DETOUR PLAN

Plot 13

PLAN REF NO DT12

SHEET 29 OF 36 SHEETS

SPOKANE COUNTY
T. 23N. R. 41E. W.M.

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 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, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

ALL SIGNS ARE 48" x 48" AND BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

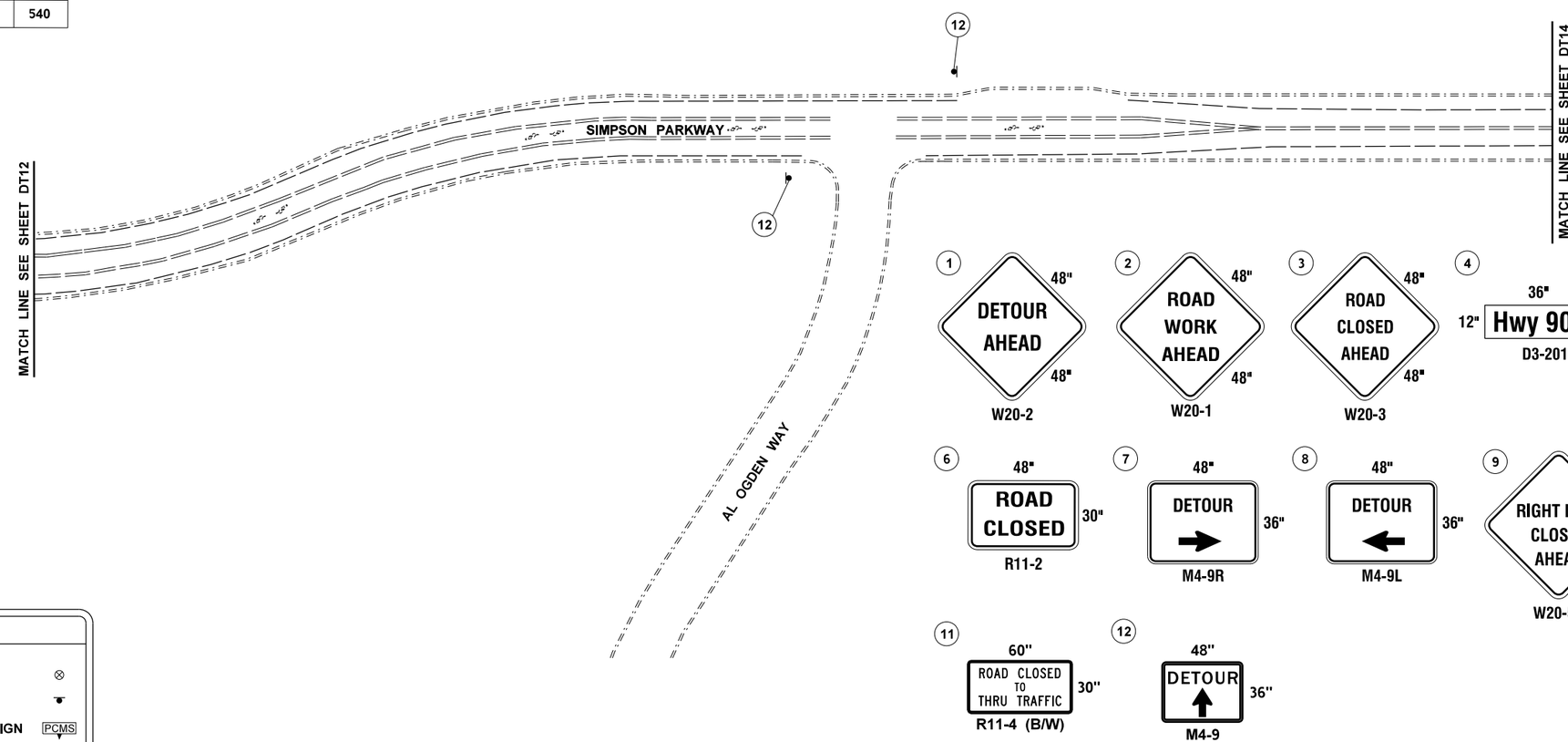
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM TAPER LENGTH = L (feet)					
LANE WIDTH (feet)	Posted Speed (mph)				
	25	30	35	40	45
10	105	150	205	270	450
11	115	165	225	295	495
12	125	180	245	320	540

BUFFER DATA									
LONGITUDINAL BUFFER SPACE = B									
SPEED (MPH)	25	30	35	40	45	- -	- -	- -	- -
LENGTH (feet)	155	200	250	305	360	- -	- -	- -	- -
PROTECTIVE VEHICLE ROLL AHEAD DISTANCE (R) = 30									
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA						NO SPECIFIED DISTANCE REQUIRED			

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

N



LEGEND	
TRAFFIC DRUM	⊗
CLASS A SIGN	
PORTABLE CHANGEABLE MESSAGE SIGN	PCMS
TYPE 3 BARRICADE	

0 50 100
SCALE IN FEET

PHASE II CONSTRUCTION - BETZ RD CLOSURE

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney_PS_TC.dgn
TIME	9:16:37 AM
DATE	10/5/2023
PLOTTED BY	RagazaR
DESIGNED BY	R. CRANFORD
ENTERED BY	R. CRANFORD
CHECKED BY	P. PAINTNER
PROJ. ENGR.	J. BIGGS, P.E.
REGIONAL ADM.	T. TREPANIER, P.E.

REVISION | DATE | BY

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

JOB NUMBER 23Z021

CONTRACT NO.

LOCATION NO. XL5170

JASON BIGGS STATE OF WASHINGTON 46186 REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

DETOUR PLAN

Plot 14
PLAN REF NO DT13
SHEET 30 OF 36 SHEETS

SPOKANE COUNTY
T. 23N. R. 41E. W.M.

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 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, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

ALL SIGNS ARE 48" x 48" AND BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

(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.

MINIMUM TAPER LENGTH = L (feet)

LANE WIDTH (feet)	Posted Speed (mph)				
	25	30	35	40	45
10	105	150	205	270	450
11	115	165	225	295	495
12	125	180	245	320	540

BUFFER DATA

LONGITUDINAL BUFFER SPACE = B

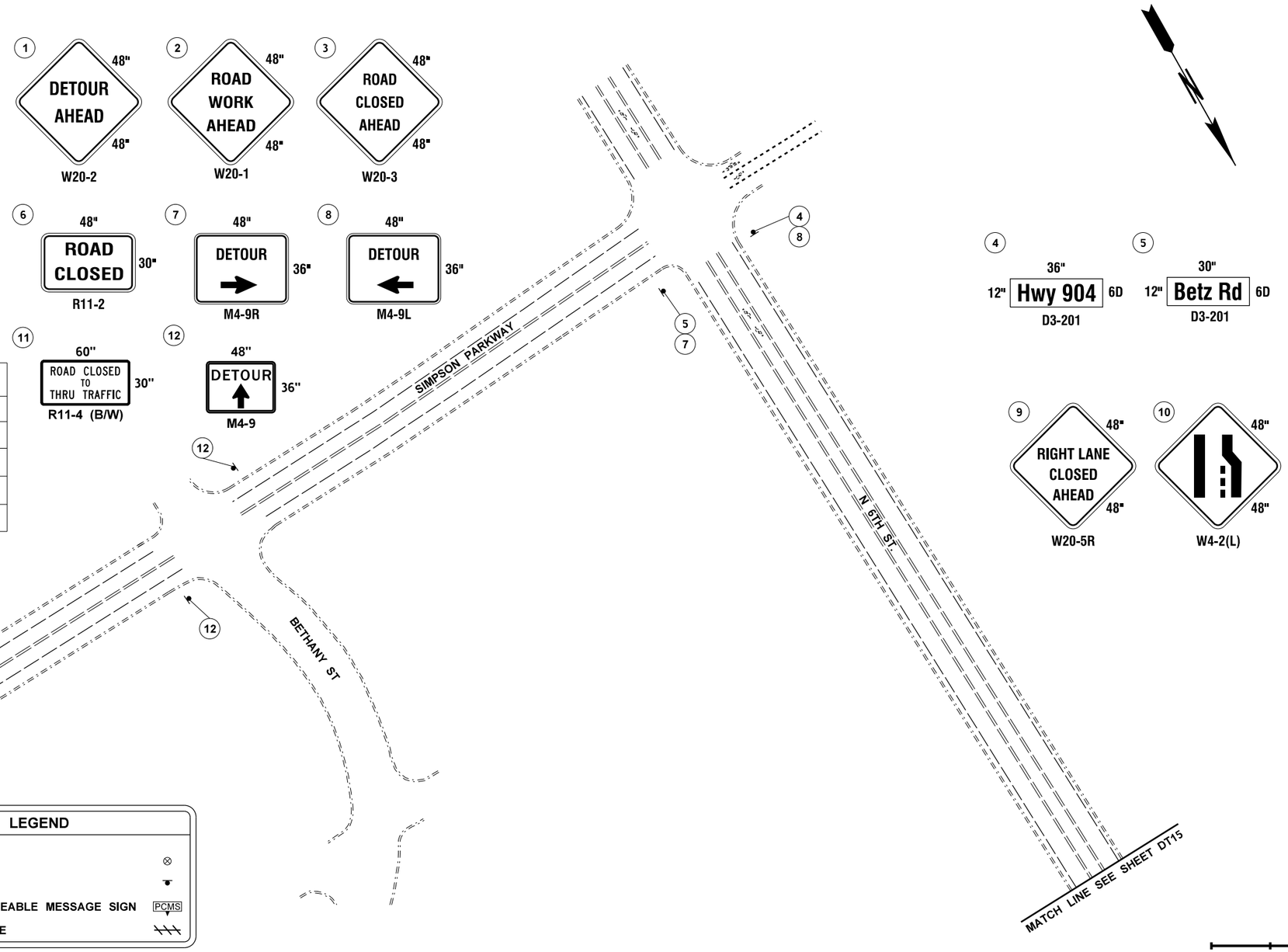
SPEED (MPH)	25	30	35	40	45	- -	- -	- -	- -
LENGTH (feet)	155	200	250	305	360	- -	- -	- -	- -

PROTECTIVE VEHICLE ROLL AHEAD DISTANCE (R) = 30

PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA	NO SPECIFIED DISTANCE REQUIRED

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40



PHASE II CONSTRUCTION - BETZ RD CLOSURE

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney_PS_TC.dgn
TIME	9:16:50 AM
DATE	10/5/2023
PLOTTED BY	RagazaR
DESIGNED BY	R. CRANFORD
ENTERED BY	R. CRANFORD
CHECKED BY	P. PAINTNER
PROJ. ENGR.	J. BIGGS, P.E.
REGIONAL ADM.	T. TREPANIER, P.E.

REVISION | DATE | BY

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

JOB NUMBER 23Z021

CONTRACT NO.

LOCATION NO. XL5170

JASON BIGGS, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

DETOUR PLAN

Plot 15

PLAN REF NO DT14

SHEET 31 OF 36 SHEETS

SPOKANE COUNTY
T. 23N. R. 41E. W.M.

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 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, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

ALL SIGNS ARE 48" x 48" AND BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

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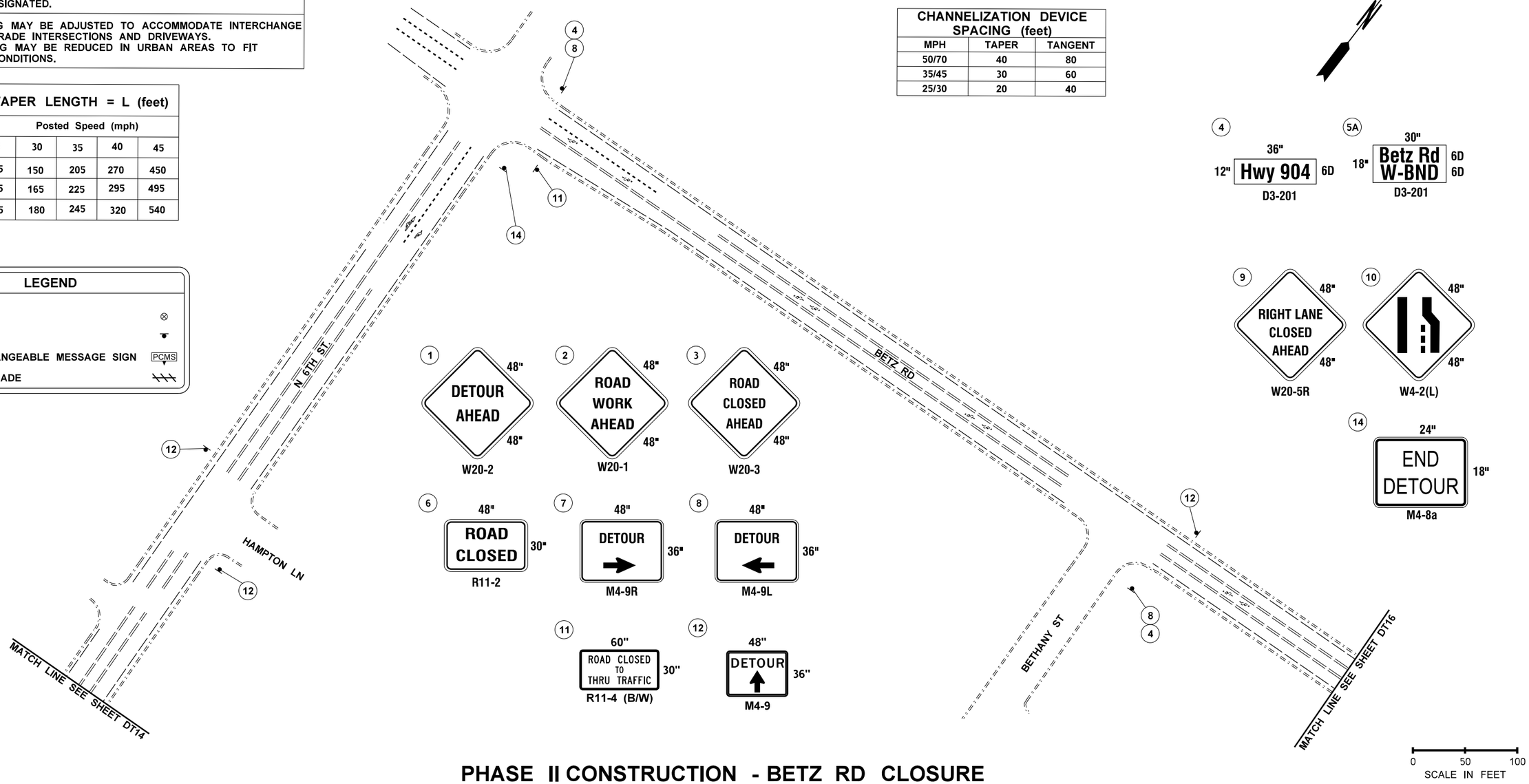
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM TAPER LENGTH = L (feet)					
LANE WIDTH (feet)	Posted Speed (mph)				
	25	30	35	40	45
10	105	150	205	270	450
11	115	165	225	295	495
12	125	180	245	320	540

LEGEND	
TRAFFIC DRUM	⊗
CLASS A SIGN	
PORTABLE CHANGEABLE MESSAGE SIGN	PCMS
TYPE 3 BARRICADE	

BUFFER DATA									
LONGITUDINAL BUFFER SPACE = B									
SPEED (MPH)	25	30	35	40	45	--	--	--	--
LENGTH (feet)	155	200	250	305	360	--	--	--	--
PROTECTIVE VEHICLE ROLL AHEAD DISTANCE (R) = 30									
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA						NO SPECIFIED DISTANCE REQUIRED			

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



PHASE II CONSTRUCTION - BETZ RD CLOSURE

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney_PS_TC.dgn				
TIME	9:17:02 AM				
DATE	10/5/2023				
PLOTTED BY	RagazaR				
DESIGNED BY	R. CRANFORD				
ENTERED BY	R. CRANFORD				
CHECKED BY	P. PAINTNER				
PROJ. ENGR.	J. BIGGS, P.E.				
REGIONAL ADM.	T. TREPANIER, P.E.	REVISION	DATE	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 23Z021		
CONTRACT NO.	LOCATION NO. XL5170	

JASON BIGGS — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

DETOUR PLAN

Plot 16
PLAN REF NO DT15
SHEET 32 OF 36 SHEETS

SPOKANE COUNTY
T. 23N. R. 41E. W.M.

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 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, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

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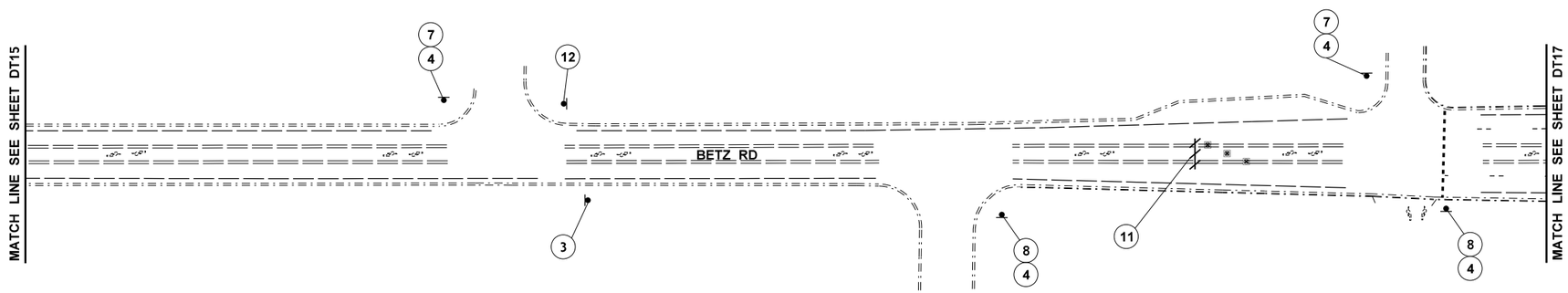
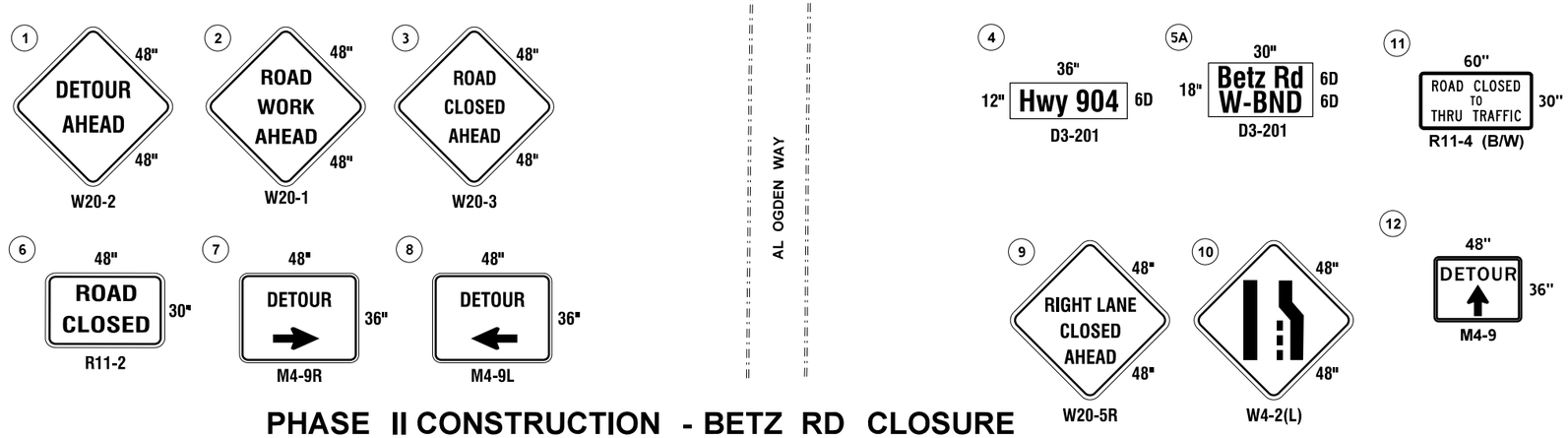
MINIMUM TAPER LENGTH = L (feet)					
LANE WIDTH (feet)	Posted Speed (mph)				
	25	30	35	40	45
10	105	150	205	270	450
11	115	165	225	295	495
12	125	180	245	320	540

BUFFER DATA									
LONGITUDINAL BUFFER SPACE = B									
SPEED (MPH)	25	30	35	40	45	- -	- -	- -	- -
LENGTH (feet)	155	200	250	305	360	- -	- -	- -	- -
PROTECTIVE VEHICLE ROLL AHEAD DISTANCE (R) = 30									
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA						NO SPECIFIED DISTANCE REQUIRED			

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





LEGEND	
TRAFFIC DRUM	⊗
CLASS A SIGN	●
PORTABLE CHANGEABLE MESSAGE SIGN	PCMS
TYPE 3 BARRICADE	

PHASE II CONSTRUCTION - BETZ RD CLOSURE

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney_PS_TC.dgn
TIME	9:17:12 AM
DATE	10/5/2023
PLOTTED BY	RagazaR
DESIGNED BY	R. CRANFORD
ENTERED BY	R. CRANFORD
CHECKED BY	P. PAINTER
PROJ. ENGR.	J. BIGGS, P.E.
REGIONAL ADM.	T. TREPANIER, P.E.

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 23Z021		
CONTRACT NO.		LOCATION NO. XL5170

JASON BIGGS — STATE OF WASHINGTON — 40786 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

DETOUR PLAN

Plot 17
PLAN REF NO DT16
SHEET 33 OF 36 SHEETS

SPOKANE COUNTY
T. 23N. R. 41E. W.M.

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 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, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

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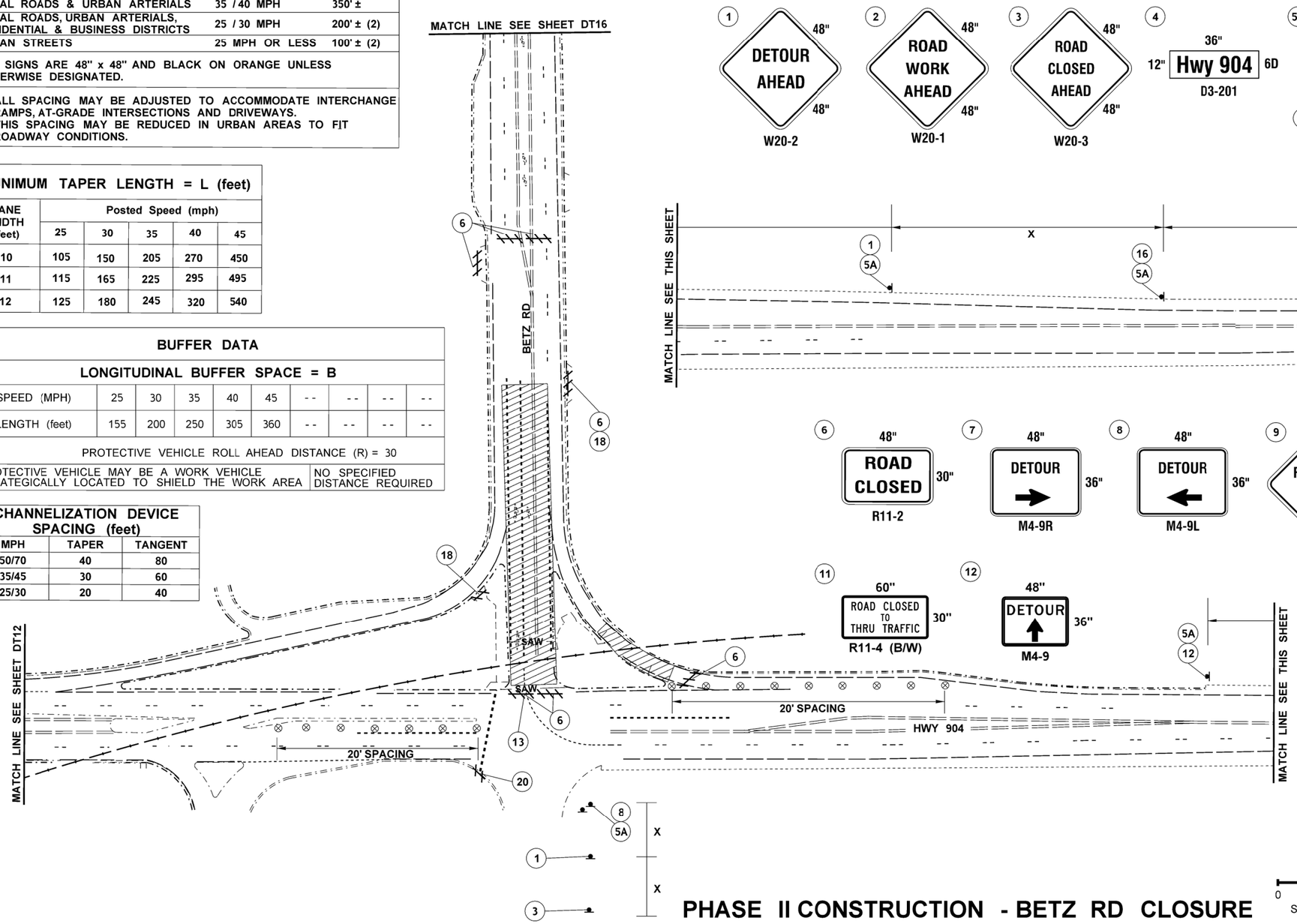
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM TAPER LENGTH = L (feet)					
LANE WIDTH (feet)	Posted Speed (mph)				
	25	30	35	40	45
10	105	150	205	270	450
11	115	165	225	295	495
12	125	180	245	320	540

BUFFER DATA									
LONGITUDINAL BUFFER SPACE = B									
SPEED (MPH)	25	30	35	40	45	- -	- -	- -	- -
LENGTH (feet)	155	200	250	305	360	- -	- -	- -	- -
PROTECTIVE VEHICLE ROLL AHEAD DISTANCE (R) = 30									
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA						NO SPECIFIED DISTANCE REQUIRED			

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



PCMS	
1	2
ROAD CLOSURES AHEAD	4/24 TO 4/29
2.0 SEC	2.0 SEC

2 DAYS BEFORE PHASE II CONSTRUCTION

PCMS	
1	2
BETZ RD W-BND CLOSED	USE DETOUR
2.0 SEC	2.0 SEC

DURING PHASE II CONSTRUCTION

FIELD LOCATE 0.5 MILE ± IN ADVANCE OF ROAD CLOSURE SIGNING.

LEGEND	
TRAFFIC DRUM	⊗
CLASS A SIGN	
PORTABLE CHANGEABLE MESSAGE SIGN	PCMS
TYPE 3 BARRICADE	
TYPE 2 BARRICADE	

0 50 100
SCALE IN FEET

PHASE II CONSTRUCTION - BETZ RD CLOSURE

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney_PS_TC.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	2:37:29 PM				JOB NUMBER 23Z021		
DATE	10/5/2023				CONTRACT NO.		LOCATION NO. XL5170
PLOTTED BY	RagazaR						
DESIGNED BY	R. CRANFORD						
ENTERED BY	R. CRANFORD						
CHECKED BY	P. PAINTNER						
PROJ. ENGR.	J. BIGGS, P.E.						
REGIONAL ADM.	T. TREPANIER, P.E.	REVISION	DATE	BY			

JASON BIGGS — STATE OF WASHINGTON — 40786 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

DETOUR PLAN

Plot 18
PLAN REF NO DT17
SHEET 34 OF 36 SHEETS

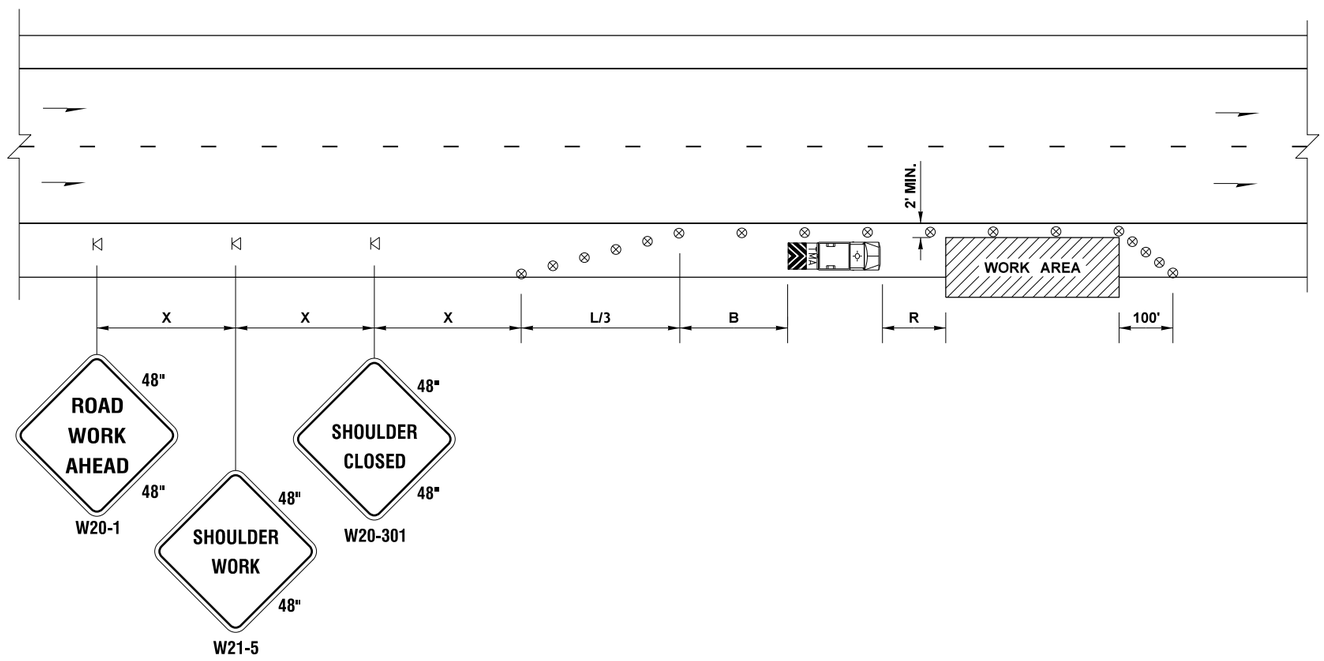
MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	-	-	-	-	120	130	150	160	170	190
10'	-	-	-	-	150	170	190	200	220	240
USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.										

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.		

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

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R					
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT > 22,000 lbs.		
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH
100'	123'	172'	74'	100'	150'



LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- TRANSPORTABLE ATTENUATOR

NOTES

1. NO ENCROACHMENT IN TRAVELED LANE. IF ENCROACHMENT IS NECESSARY, LANE SHALL BE CLOSED.
2. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT) O.C.
3. ALL SIGNS ARE BLACK ON ORANGE.

SHOULDER CLOSURE - HIGH SPEED

NOT TO SCALE

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney_PS_TC.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	9:17:48 AM						
DATE	10/5/2023						
PLOTTED BY	RagazaR				JOB NUMBER 23Z021		
DESIGNED BY	R. CRANFORD						
ENTERED BY	R. CRANFORD						
CHECKED BY	P. PAINTNER				CONTRACT NO.		LOCATION NO. XL5170
PROJ. ENGR.	J. BIGGS, P.E.						
REGIONAL ADM.	T. TREPANIER, P.E.	REVISION	DATE	BY			

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

TRAFFIC CONTROL PLAN

Plot 22

PLAN REF NO TC1

SHEET 35 OF 36 SHEETS

BUFFER DATA

LONGITUDINAL BUFFER SPACE = B

SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R

HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT > 22,000 lbs.		
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH
100'	123'	172'	74'	100'	150'

PROTECTIVE VEHICLE (WORK VEHICLE) = R

NO SPECIFIED DISTANCE REQUIRED

SIGN SPACING = X (1)

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)

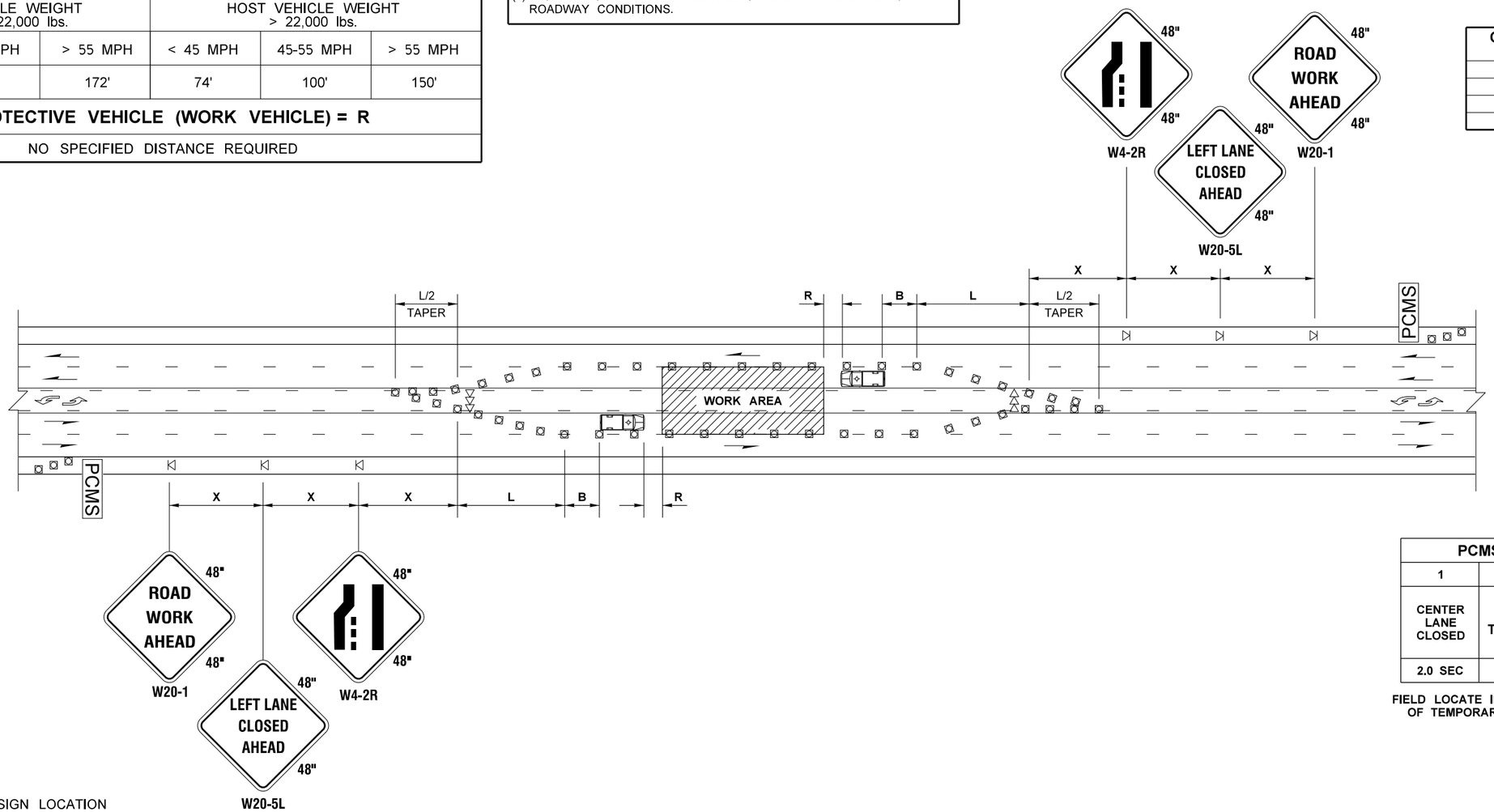
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM TAPER LENGTH = L (feet)

LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	-	-	-	-
11	115	165	225	295	495	550	-	-	-	-
12	125	180	245	320	540	600	-	-	-	-

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
50	40	80
35/45	30	60
25/30	20	40



PCMS	
1	2
CENTER LANE CLOSED	NNO LEFT TURNING
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

LEGEND

- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- SEQUENTIAL ARROW SIGN
- PROTECTIVE VEHICLE
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN

LEFT LANE AND CENTER TURN LANE CLOSURE - 5 LANE ROADWAY

NOT TO SCALE

NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. ALL SIGNS ARE BLACK ON ORANGE.

FILE NAME	G:\PCC Railway\230. Projects\2023-2025\2023 Cheney Crossing\CAD\Basemap\Cheney_PS_TC.dgn			
TIME	9:17:59 AM			
DATE	10/5/2023			
PLOTTED BY	RagazaR			
DESIGNED BY	R. CRANFORD			
ENTERED BY	R. CRANFORD			
CHECKED BY	P. PAINTNER			
PROJ. ENGR.	J. BIGGS, P.E.			
REGIONAL ADM.	T. TREPANIER, P.E.	REVISION	DATE	BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER 23Z021
CONTRACT NO.
LOCATION NO. XL5170

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

Washington State Department of Transportation

2023 CW BRANCH
SR 904 BETZ RD CROSSING - PCC

TRAFFIC CONTROL PLAN

Plot 23
PLAN REF NO TC2
SHEET 36 OF 36 SHEETS