MARCH 2023

Section No.

Section No.

Section No.

Section No.

Section No.

TOTAL SHEETS = 44

Miscellaneous Quantities

Standard Detail Drawings

STATE OF WISCONSIN ORDER OF SHEETS **DEPARTMENT OF TRANSPORTATION** Typical Sections and Details (Includes Erosion Control Plan) Estimate of Quantities

PLAN OF PROPOSED IMPROVEMENT

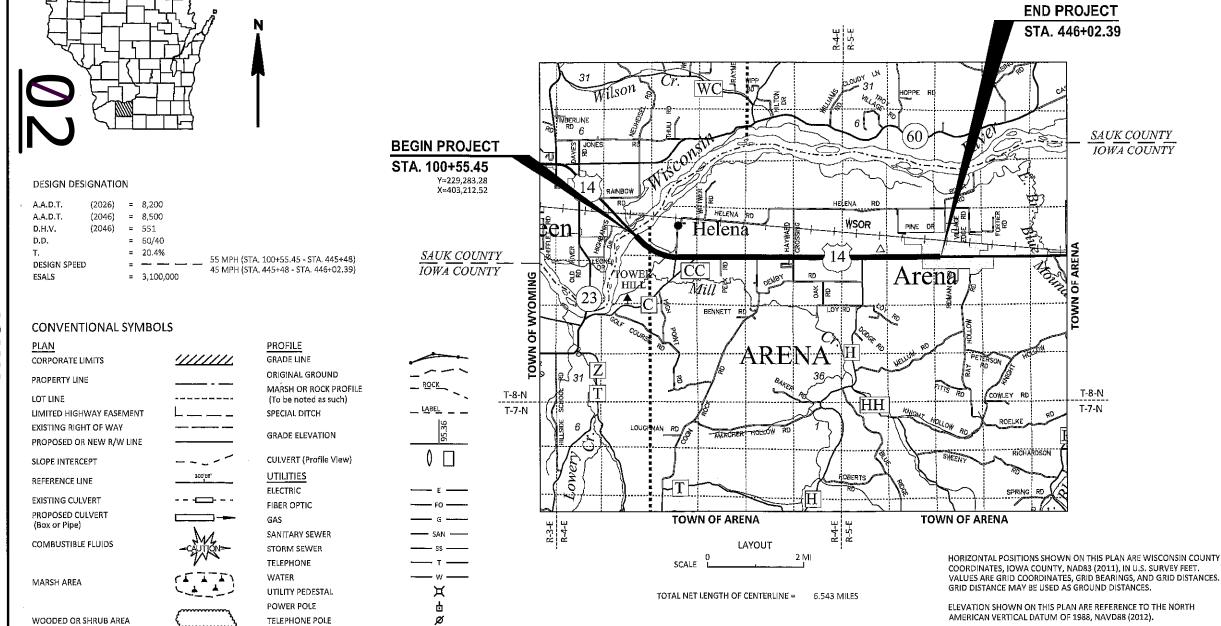
FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 1640-00-63 WISC 2023280

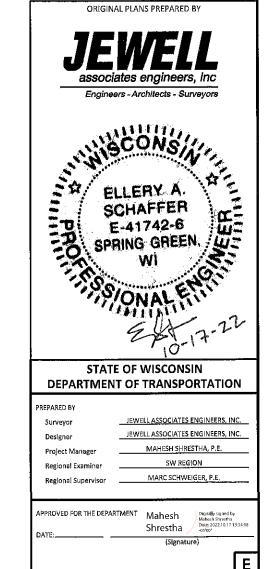
SPRING GREEN - MADISON

WISCONSIN RIVER TO OAK STREET

USH 14 IOWA COUNTY

STATE PROJECT NUMBER 1640-00-63





GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR

EROSION CONTROL ITEMS IN THE MISC. QUAN. ARE SUGGESTED. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD. MAINTAIN EROSION CONTROL ITEMS UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY. PROTECT WETLANDS AND OTHER WATERWAYS THAT ARE PRESENT WITHIN THE PROJECT LIMITS

EXISTING SHOULDER AGGREGATE SHALL BE INCORPORATED INTO THE NEW SHOULDERS UNLESS OTHERWISE DIRECTED BY THE ENGINEER IN THE FIELD.

WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE DENSE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A VERTICAL EDGE MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

HMA PAVEMENT QUANTITIES WERE CALCULATED USING 112 LB/SY/IN.

2.5-INCHES OF HMA PAVEMENT SHALL BE CONSTRUCTED WITH A SINGLE 2.5-INCH LAYER OF HMA PAVEMENT 4 MT 58-28 S.

PAVING LIMITS AT INTERSECTIONS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

THE EXACT LOCATIONS AND LIMITS OF PRIVATE ENTRANCES, COMMERCIAL, AND FIELD ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD

APPLY TACK COAT TO MILLED SURFACE PRIOR TO PLACEMENT OF HMA PAVEMENT AT A RATE OF 0.07 GAL/SY.

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING,

THE LOW SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION WHEN THE SUPERELEVATION IS GREATER THAN 0.04 FT./FT., IF THE SUPERELEVATION IS LESS THAN OR EQUALS 0.04 FT./FT., THEN THE LOW SIDE SHOULDER SLOPE IS 0.04 FT./FT. THE HIGH SIDE SHOULDER SLOPE ON THE SUPERELEVATED SECTION EQUALS THE SUPERELEVATION.

CURVE DATA IS BASED ON THE ARC DEFINITION.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, ALL SIGNS RELATING TO THIS OPERATION SHALL BE COVERED OR REMOVED AND FACILITY RESTORED TO NORMAL OPERATIONS.

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS

IF THERE ARE UTILITY CONFLICTS WITH SIGNS OR OTHER WORK UNDER THIS PROJECT, THE CONTRACTOR WILL WORK AROUND THE UTILITY FACILITIES.

A 20 FT. VERTICAL CLEARANCE IS REQUIRED FROM HIGHEST POINT ON THE PAVEMENT SURFACE TO THE

CONTRACTOR TO PROTECT DH8322 AND OM1175 GPS AND KEEP CONSTRUCTION EQUIPMENT AT LEAST 10

ENSURE THAT DH8322 AND OM1175 GPS ARE NOT DISTURBED, BUMPED, OR MOVED DURING THE DURATION OF THE PROJECT. NOTIFY JACOB ROCKWEILER IMMEDIATELY IF DH8322 AND OM1175 GPS ARE DISTURBED, BUMPED OR MOVED DURING CONSTRUCTION OPERATIONS.

JACOB ROCKWEILER, P.E., WISCONSIN HEIGHT MODERNIZATION PROGRAM MANAGER WITH THE WISCONSIN DEPARTMENT OF TRANSPORTATION WHOSE PHONE NUMBER IS (608) 516-6362 AND EMAIL IS JACOB.ROCKWEILER@DOT.WI.GOV.

MILL AND PAVE ADJACENT TO MONUMENT WITHOUT DAMAGING THE MONUMENT.

ADJUST SHOULDER SLOPE FROM STA. 138+27 - STA. 142+43, RT. TO ACHIEVE ALLOWABLE GUARDRAIL HEIGHT RANGE 27.75" - 32". THE EXISTING GUARDRAIL HEIGHT MEASURES 27" - 28" AND NEEDS TO BE ADJUSTED BY 0.75". SHOULDER SLOPE ADJUSTMENTS ARE REQUIRED BETWEEN THE EDGE OF THE DRIVING LANE AND FACE OF GUARDRAIL FROM STA. 138+27 - STA. 142+43, RT. ALL WORK REQUIRED TO ACHIEVE DESIRED GUARDRAIL HEIGHT IS PAID FOR UNDER THE HMA PAVEMENT 4 MT 58-28 S BID ITEM

ADJUST SHOULDER SLOPE FROM STA. 420+62 - STA. 423+29, RT. AND STA. 421+34 - STA. 422+52, LT. TO ACHIEVE ALLOWABLE GUARDRAIL HEIGHT RANGE 27.75" - 32". THE EXISTING GUARDRAIL HEIGHT MEASURES 28.5" - 33.5" AND 29.5" - 33" RESPECTIVELY AND NEEDS TO BE ADJUSTED TO MEET THE ALLOWABLE GUARDRAIL HEIGHT RANGE OF 27.75" - 32". SHOULDER SLOPE ADJUSTMENTS ARE REQUIRED BETWEEN 15' FROM THE USH 14 FINISHED C/L TO THE FACE OF GUARDRAIL FROM STA. 420+62 - STA. 423+29, RT. AND STA. 421+34 - STA. 422+52, LT. ALL WORK REQUIRED TO ACHIEVE DESIRED GUARDRAIL HEIGHT IS PAID FOR UNDER THE HMA PAVEMENT 4 MT 58-28 S BID ITEM.

HWY: USH 14

CONTACTS

WISCONSIN DEPARTMENT OF TRANSPORTATION:

WISDOT PROJECT MANAGER 2101 WRIGHT STREET MADISON, WI 53704 ATTN: MAHESH SHRESTHA, P.E. PH: (608) 245-2674 EMAIL: Mahesh.Shrestha@dot.wi.gov DESIGN CONSULTANT:

JEWELL ASSOCIATES ENGINEERS, INC. 560 SUNRISE DRIVE SPRING GREEN, WI 53588 ATTN: ELLERY SCHAFFER, P.E. PH: (608) 459-6027 CELL: (608) 341-8159 EMAIL: ellery.schaffer@jewellassoc.com

WDNR LIAISON:

STATE OF WISCONSIN DNR SOUTH CENTRAL REGION HQ 3911 FISH HATCHERY ROAD FITCHBURG. WI 53711 ATTN: ERIC HEGGELUND CELL: (608) 228-7927 EMAIL: eric.heggelund@wisconsin.gov

UTILITIES

ELECTRICITY

ALLIANT ENERGY ATTN: MATT HOSLER 900 PRAIRIE LANE SPRING GREEN WI 53588 CFIL: (608) 963-3655 EMAIL: matthewhosler@alliantenergy.com

GAS/PETROLEUM

MADISON GAS & ELECTRIC ATTN: SHAUN ENDRES 133 S BLAIR STREET MADISON, WI 53788 OFFICE: (608) 252-7224 CELL: (608) 213-6708 EMAIL: sendres@mge.com

WATER

VILLAGE OF ARENA ATTN: MIKE SCHMIDT P.O. BOX 131 ARENA WI 53503 OFFICE: (608) 459-5838 EMAIL: publicworks@villageofarena.net COMMUNICATION LINE

CHARTER COMMUNICATIONS ATTN: STEVE HEGGE 2701 DANIELS STREET MADISON, WI 53718 OFFICE: (608) 576-2613 EMAIL: steve.hegge@charter.com

FRONTIER COMMUNICATIONS ATTN: JERRY MOORE 2222 W WISCONSIN STREET PORTAGE WI 53901 OFFICE: (608) 742-9507 CELL: (608) 346-0353 EMAIL: jerald.r.moore@ftr.com



* DENOTES UTILITY IS NOT A MEMBER OF DIGGERS HOTLINE

▲ CONTROL POINTS

NO.	STA.	DESCRIPTION	Υ	х	Z
1	1 160+24 ¾" I.R.S., 34.2' RT. 2 272+52 ¾" I.R.S., 40.5' LT. 3 391+77 ¾" I.R.S., 40.5' LT.		226,969.95	408,491.62	717.82
2			227,061.26	419,720.30	724.32
3			227,068.20	431,644.44	735.84

ORDER OF SECTION 2 SHEETS:

- WRITTEN MATERIAL

- PROJECT OVERVIEW

- TYPICAL SECTIONS

- CONSTRUCTION DETAILS - PLAN DETAILS

GENERAL NOTES, UTILITIES, CONTACTS, & ABBREVIATIONS

SHEET

LIST OF STANDARD ABBREVIATIONS

ABUT	Abutment	INV	Invert	RDWY	Roadway
AC	Acre	IP	Iron Pipe or Pin	SALV	Salvaged
AGG	Aggregate	IRS	Iron Rod Set	SAN S	Sanitary Sewer
AH	Ahead	JT	Joint	SEC	Section
<	Angle	JCT	Junction	SHLDR	Shoulder
ASPH	Asphaltic	LHF	Left-Hand Forward		
AVG	Average	L	Length of Curve	SHR SW	Shrinkage Sidewalk
ADT	Average Daily Traffic	LIN FT	Linear Foot		
BAD	Base Aggregate Dense	or LF	Linear 100t	S	South
BK	Back	LC	Long Chord of Curve	SQ	Square
BF	Back Face	MH	Manhole	SF or SQ FT	Square Feet
BM	Bench Mark	MB	Mailbox	SY or SQ YD	Square Yard
BR	Bridge	ML or M/L	Match Line	STD	Standard
C or C/L	Center Line	N N	North	SDD	Standard Detail Drawings
CC		Ϋ́	North Grid Coordinate	STH	State Trunk Highways
	Center to Center	ÓD	Outside Diameter	STA	Station
C.E.	Commercial Entrance	PLE	Permanent Limited	SS	Storm Sewer
CTH	County Trunk Highway		Easement	SG	Subgrade
CR	Creek	PT	Point	SE	Superelevation
CR	Crushed	PC	Point of Curvature	SL or S/L	Survey Line
CY or CU YD	Cubic Yard	PI	Point of Intersection	SV	Septic Vent
CP	Culvert Pipe	PRC	Point of Reverse	T	Tangent
C & G	Curb and Gutter		Curvature	TEL	Telephone
D	Degree of Curve	PT	Point of Tangency	TEMP	Temporary
DHV	Design Hour Volume	POC	Point On Curve	TI	Temporary Interest
DIA	Diameter	POT	Point on Tangent	TLE	Temporary Limited
E	East	PVC	Polyvinyl Chloride		Easement
X	East Grid Coordinate	PCC	Portland Cement	t	Ton
ELEC	Electric (al)		Concrete	T or TN	Town
EL or ELEV	Elevation	LB PSI	Pound Pounds Per Square Inch	TRANS	Transition
ESALS	Equivalent Single Axle	P.E.	Private Entrance	TL or T/L	Transit Line
EBS	Loads Excavation Below	R.C.	Radius	T	Trucks (percent of)
EBS	Subgrade	RR	Railroad	TYP	Typical
FF	Face to Face	R	Range	UNCL	Unclassified
F.E.	Field Entrance	RL or R/L	Reference Line	UG	Underground Cable
F	Fill	RP ,	Reference Point	USH	United States Highway
FG	Finished Grade	RCCP	Reinforced Concrete	VAR	Variable ,
FL or F/L	Flow Line		Culvert Pipe	V	Velocity or Design Speed
FT	Foot	REQD	Required	VERT	Vertical
FTG	Footing	RES	Residence or Residential	VC	Vertical Curve
GN	Grid North	RW	Retaining Wall	VOL	Volume
HT	Height	RT	Right	WM	Water Main
CWT	Hundredweight	RHF	Right-Hand Forward	WV	Water Valve
HYD	Hydrant	R/W	Right-of-Way	W	West
INL	Inlet	RD	Road	WB	Westbound
INL	Inside Diameter	R	River	YD	Yard
טו	inside Diameter	IN.	111461		

SOIL BORING TABLE

		11846		LAVEDO	OTHER MATERIAL
		HMA		LAYER 2	OTHER MATERIAL
		LAYER 1	LAYER 2	THICKNESS	BELOW LAYER 2
STATION	OFFSET	(INCH)	MATERIAL	(INCH)	IN 5-FT AUGER BORINGS
114+81	6' RT.	5.875	RECYCLED ASPHALT		
130+12	9' RT.	6.50	BASE	22.5	3'+ SAND
145+96	12' RT.	5.50	RECYCLED ASPHALT		
166+03	6' LT.	9.25	RECYCLED ASPHALT		
177+64	9' RT.	9.75	RUBBALIZED CONCRETE	7.0	3'+ SAND
200+87	12' LT.	6.13	RECYCLED ASPHALT		
215+66	6' LT.	6.13	RECYCLED ASPHALT		
233+08	9' LT.	9.00	RUBBALIZED CONCRETE	7.5	3.5' SAND
252+62	12' RT.	6.30	BASE		
263+71	18' RT.	5.75	BASE		
269+51	6' LT.	10.00	RUBBALIZED CONCRETE	7.5	3.5' SAND
289+58	9' RT.	11.50	RUBBALIZED CONCRETE	8.5	
298+03	12' LT.	8.13	RECYCLED ASPHALT		3.5' SAND
313+87	18' LT.	4.63	BASE		
322+31	6' RT.	11.00	RUBBALIZED CONCRETE	6.5	3.5' SAND
340+27	9.5' LT.	8.25	RUBBALIZED CONCRETE		
358+22	12' RT.	9.50	RECYCLED ASPHALT		
426+86	6' LT.	10.00	RUBBALIZED CONCRETE	6.0	3.5' SAND
393+07	9' RT.	7.50	INTACT RECYCLED ASPHALT	2.5	CONCRETE
409+43	12' LT.	8.00	INTACT RECYCLED ASPHALT	2.75	
424+75	6' RT.	10.50	RUBBALIZED CONCRETE	6.0	3.5' SAND
434+78	9' LT.	9.25	RUBBALIZED CONCRETE	8.0	3.5' SAND

PROJECT NO: 1640-00-63

COUNTY: IOWA

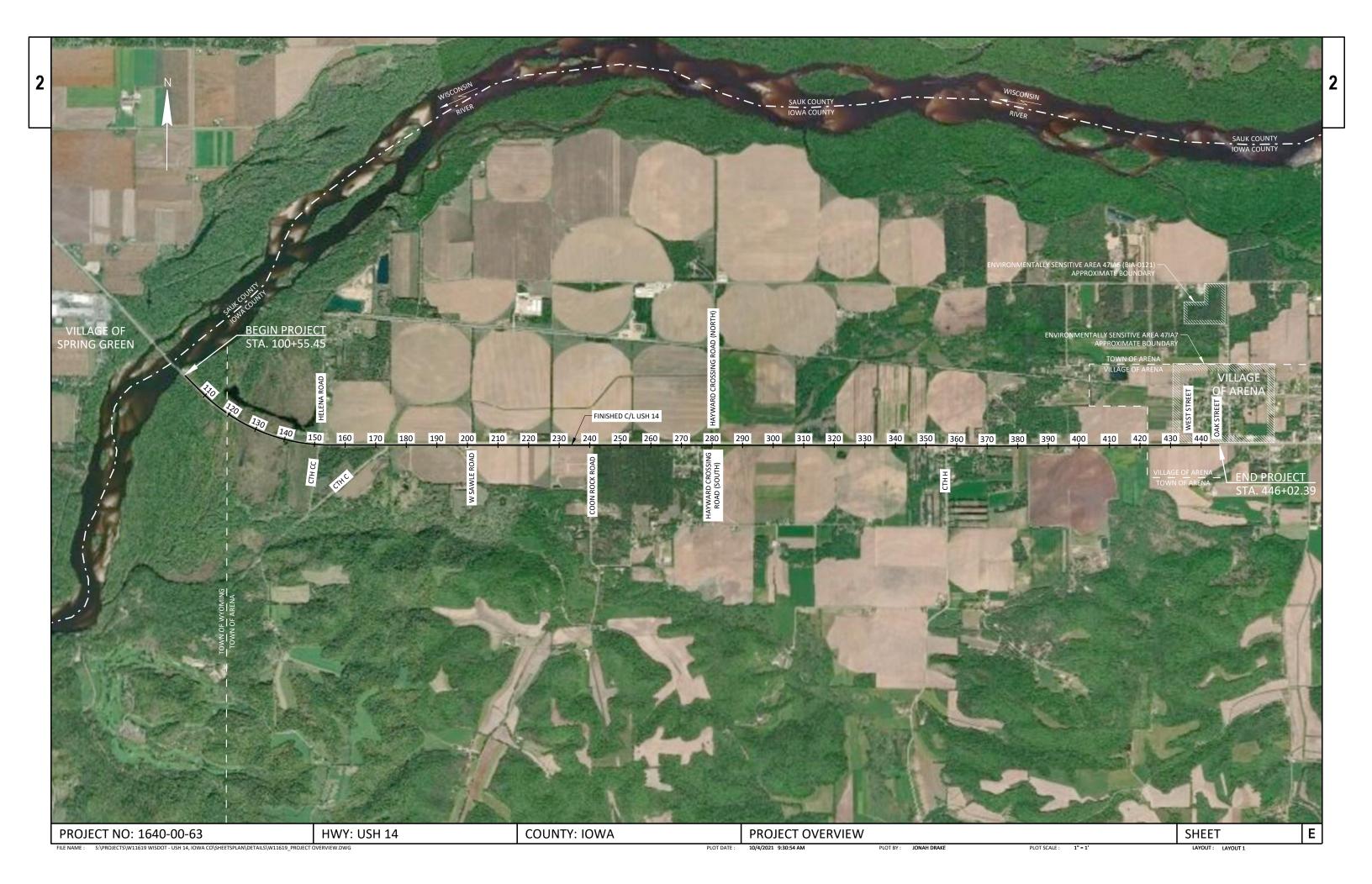
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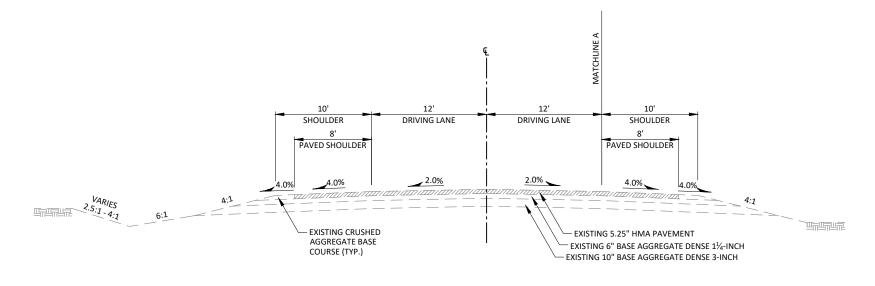
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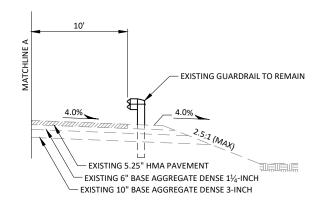
PLOT BY: JONAH DRAKE

PLOT SCALE :







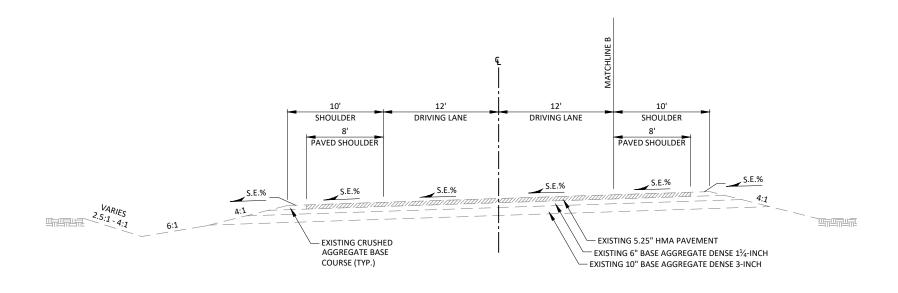


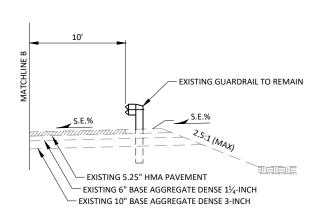
TYPICAL EXISTING SECTION

STA. 100+55.45 - STA. 106+85

TYPICAL PARTIAL EXISTING SECTION

STA. 100+55.45 - STA. 101+92, RT. STA. 100+55.45 - STA. 102+92, LT.





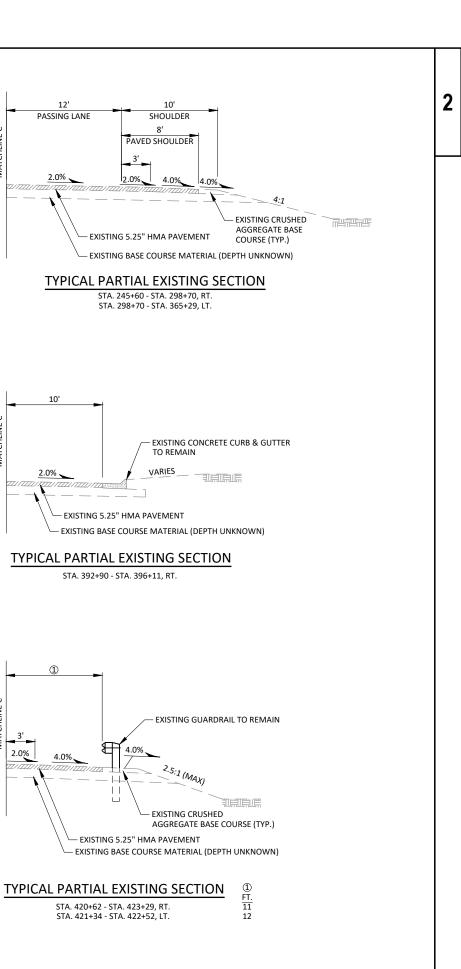
TYPICAL EXISTING SUPERELEVATED SECTION

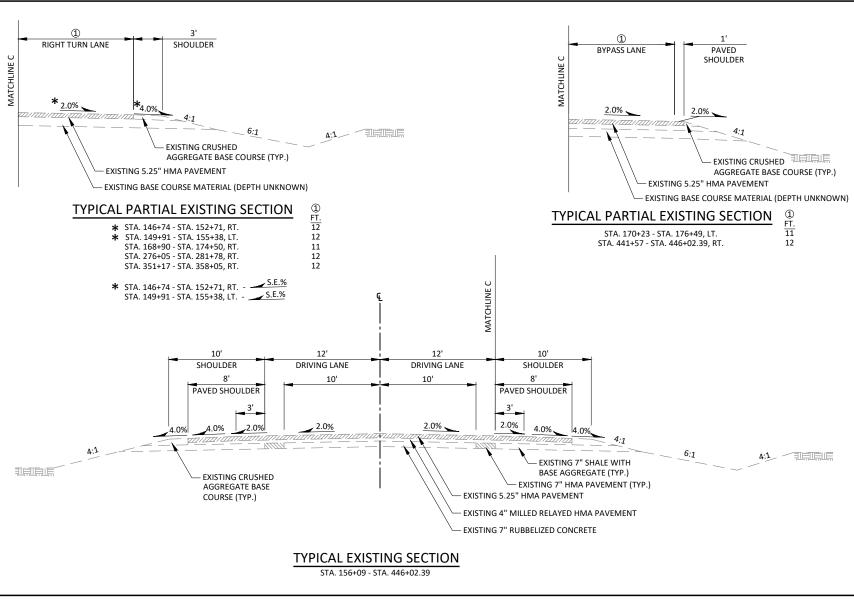
STA. 106+85 - STA. 144+83

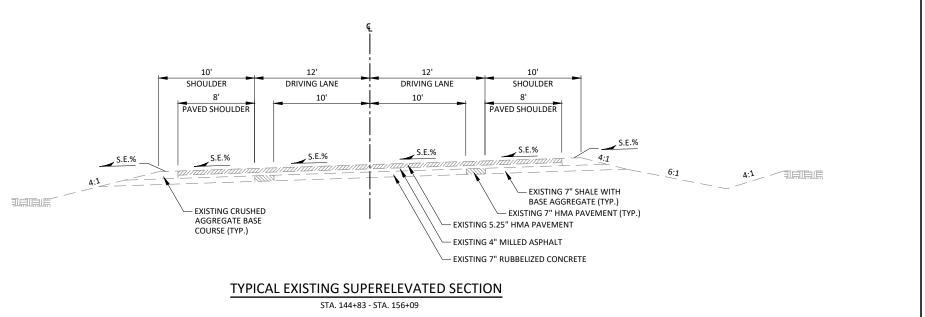
TYPICAL PARTIAL EXISTING SECTION

STA. 138+27 - STA. 142+43, RT.

PROJECT NO: 1640-00-63	HWY: USH 14	COUNTY: IOWA	TYPICAL EXISTING SECT	TONS		SHEET	E	
FILE NAME . CARROLLECTS/W11610 WISDOT LIGHTA TOWA COASHEETSDLAN/TYDICALS/W11610 TYDICAL	S DIVIC	DIOT DATE .	10/4/2021 0-20-E9 AM	BLOT BY : IONAL DRAVE	DIOT SCALE: 1" - 1"	LAVOLT . EVICTING		







COUNTY: IOWA

FILE NAME: S:\PROJECTS\W11619 WISDOT - USH 14. IOWA CO\SHEETSPLAN\TYPICALS\W11619 TYPICALS.DW1

HWY: USH 14

TYPICAL EXISTING SECTIONS

PLOT SCALE :

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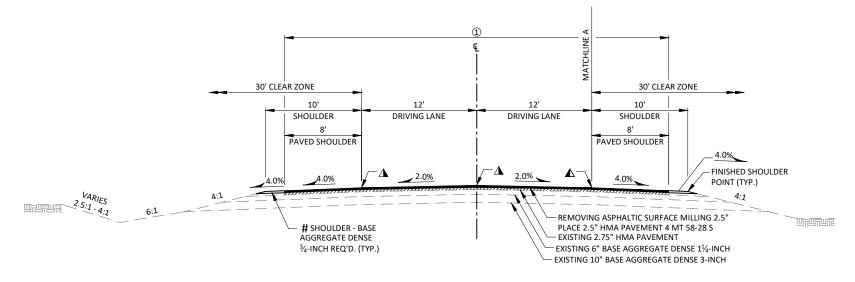
PROJECT NO: 1640-00-63

PLOT DATE : 10/4/2021 9:30:59 AM

LAYOUT: EXISTING 2

SHEET



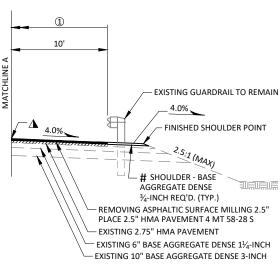


SUPERELEVATION TABLE-CURVE 1

	STATION	LEFT(%)	RIGHT(%)				
	106+85	2.0	2.0				
	107+00	2.0	1.5				
	107+41	2.0	0.0				
	107+50	2.0	0.3				
	107+97	2.0	2.0				
	108+00	2.1	2.1				
	108+28	3.1	3.1				
-	FULL SUPERELEVATION						
	154+66	3.1	3.1				
	154+97	2.0	2.0				

TYPICAL FINISHED SECTION STA. 100+55.45 - STA. 106+85

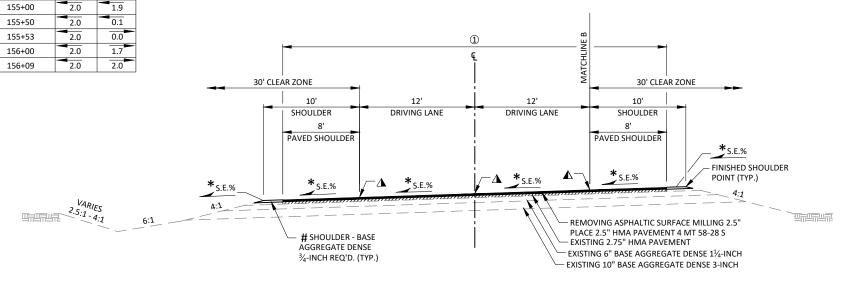
- ▲ ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL AND ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL REQ'D. SEE MISCELLANEOUS QUANTITIES AND STANDARD DETAIL DRAWINGS FOR DETAILS.
- PREPARE FOUNDATION FOR ASPHALTIC PAVING
- $\mbox{\it \#}$ Incorporate existing shoulder aggregate to greatest extent practicable prior to placement of base aggregate dense $\mbox{\it \%-}$ inch



TYPICAL PARTIAL FINISHED SECTION

STA. 100+55.45 - STA. 101+92, RT. STA. 100+55.45 - STA. 102+92, LT.

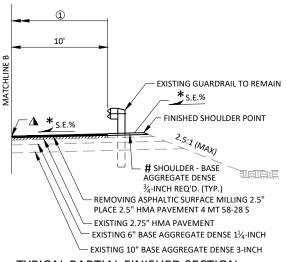
- ① PREPARE FOUNDATION FOR ASPHALTIC PAVING
- # INCORPORATE EXISTING SHOULDER AGGREGATE TO GREATEST EXTENT PRACTICABLE PRIOR TO PLACEMENT OF BASE AGGREGATE DENSE 3/4-INCH



TYPICAL FINISHED SUPERELEVATED SECTION

STA. 106+85 - STA. 144+83

- ★ SEE SUPERELEVATION TABLE
- ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL AND ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL REQ'D. SEE MISCELLANEOUS QUANTITIES AND STANDARD DETAIL DRAWINGS FOR DETAILS.
- ① PREPARE FOUNDATION FOR ASPHALTIC PAVING
- # INCORPORATE EXISTING SHOULDER AGGREGATE TO GREATEST EXTENT PRACTICABLE PRIOR TO PLACEMENT OF BASE AGGREGATE DENSE 3/4-INCH



TYPICAL PARTIAL FINISHED SECTION

STA. 138+27 - STA. 142+43, RT.

- ① PREPARE FOUNDATION FOR ASPHALTIC PAVING
- # INCORPORATE EXISTING SHOULDER AGGREGATE TO GREATEST EXTENT PRACTICABLE PRIOR TO PLACEMENT OF BASE AGGREGATE DENSE ¾-INCH

PROJECT NO: 1640-00-63 HWY: USH 14 COUNTY: IOWA TYPICAL FINISHED SECTIONS SHEET **E**

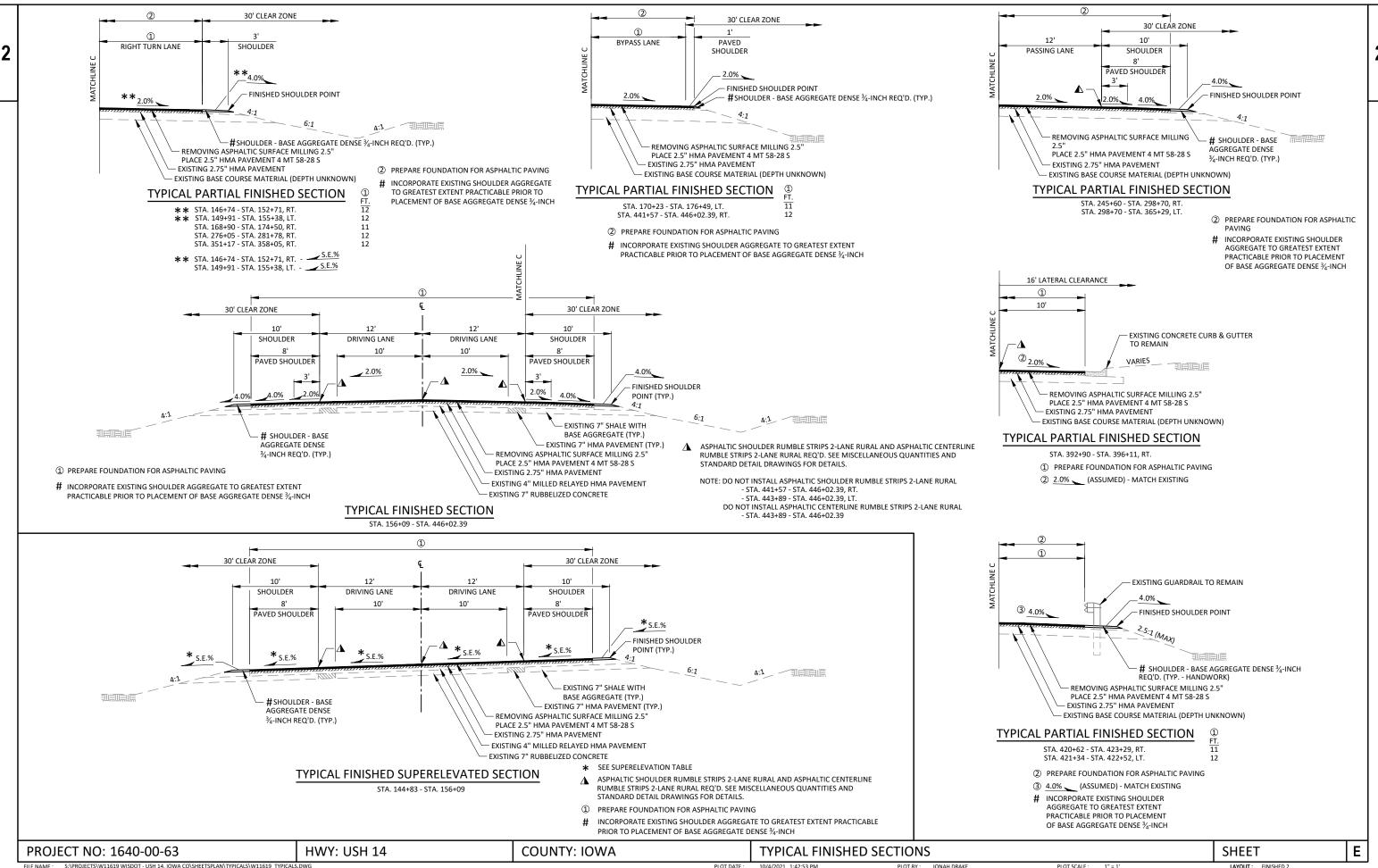
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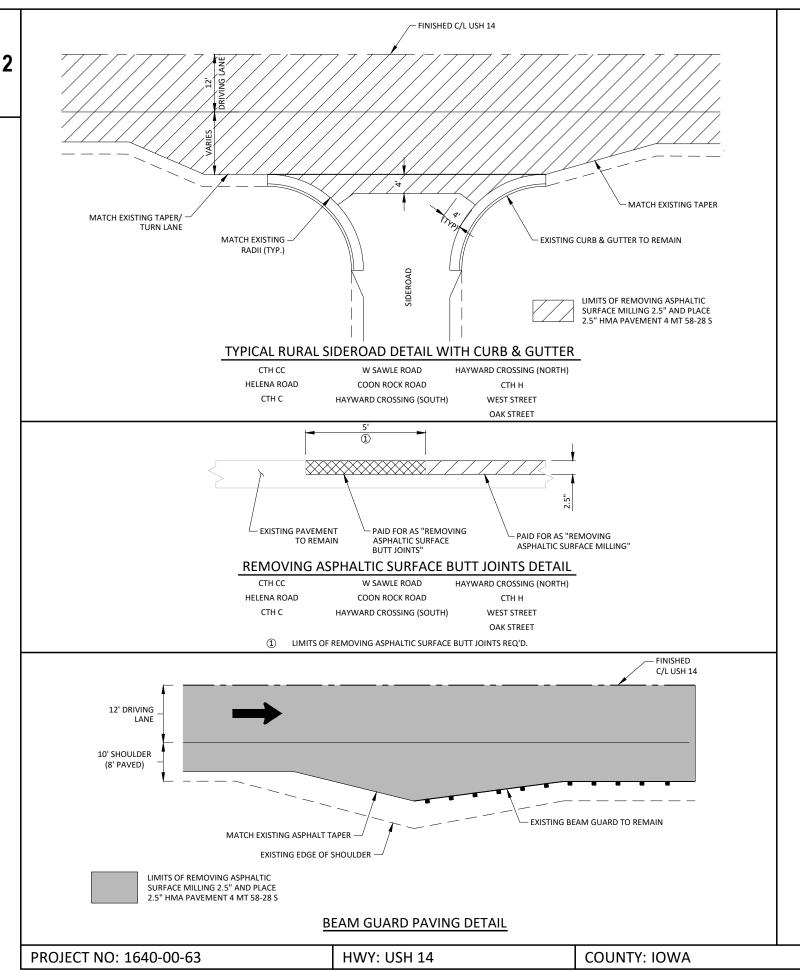
PLOT BY: JONAH DRAKE

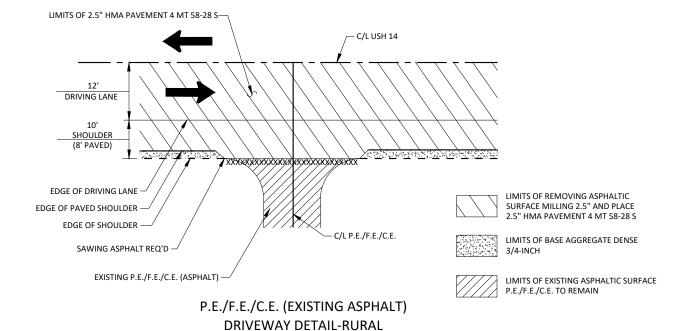
PLOT SCALE : 1" = 1'

LAYOUT: FINISHED



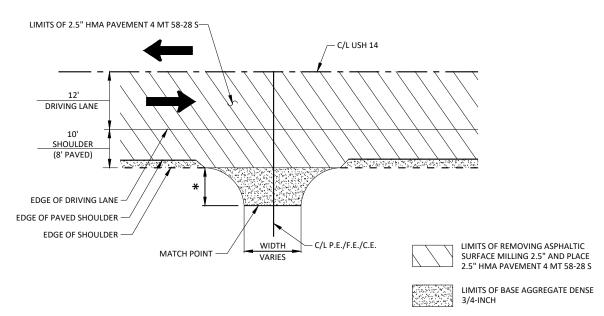






NOTE: EXISTING ASPHALT DRIVEWAY LOCATED AT STA. 393+87, RT. (LOCATED BEHIND BACK OF EXISTING CURB & GUTTER TO REMAIN) TO REMAIN. SEE TYPICAL FINISHED SECTIONS FOR FURTHER INFORMATION.

NOTE: EXISTING CONCRETE DRIVEWAY LOCATED AT STA. 395+48, RT. (LOCATED BEHIND BACK OF EXISTING CURB & GUTTER TO REMAIN) TO REMAIN. SEE TYPICAL FINISHED SECTIONS FOR FURTHER INFORMATION.

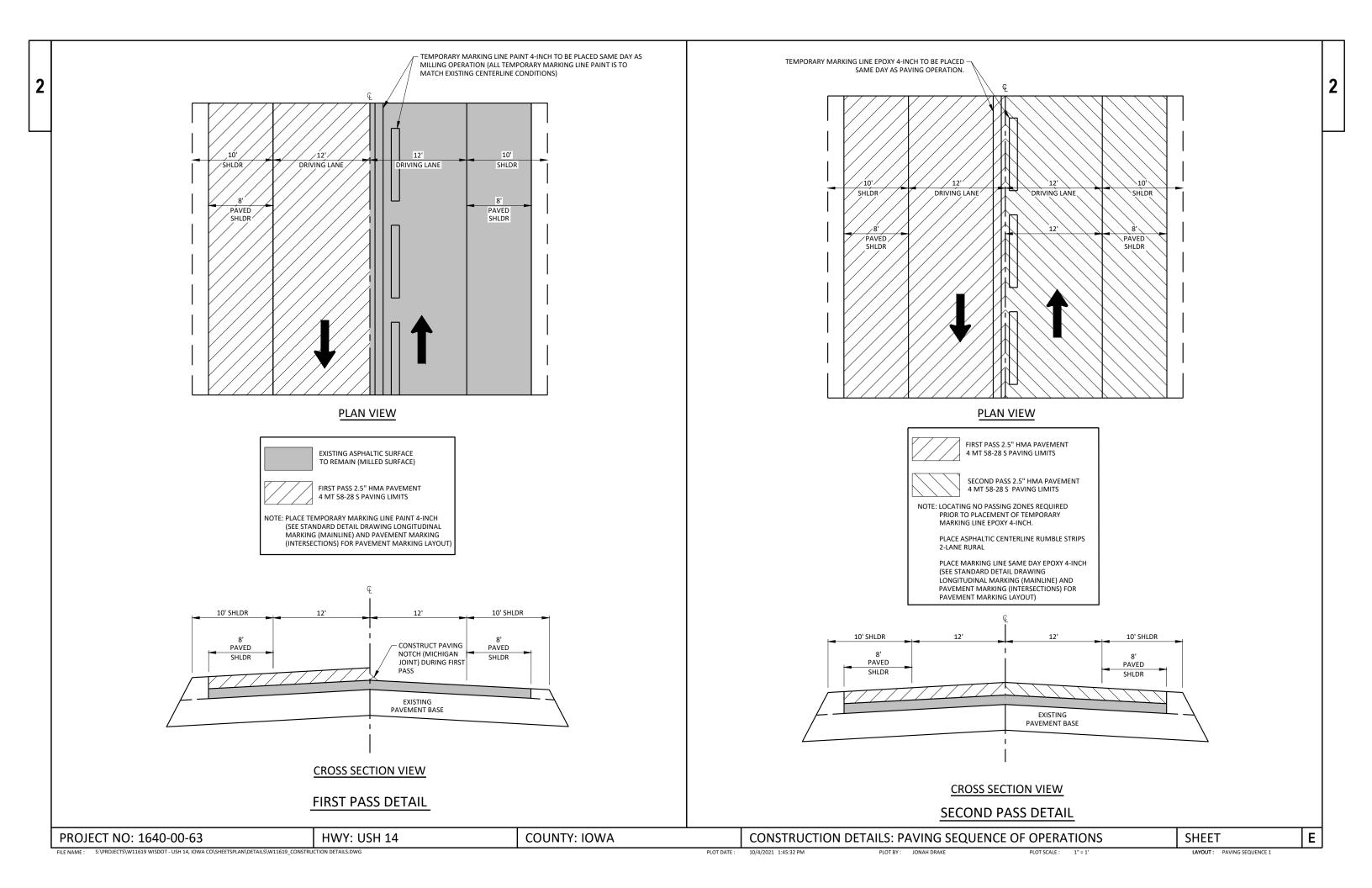


P.E./F.E./C.E. (EXISTING B.A.D.) DRIVEWAY DETAIL-RURAL

 $f{st}$ REPLACE IN KIND TO THE RADIUS POINTS OF EACH DRIVEWAY

CONSTRUCTION DETAILS SHEET

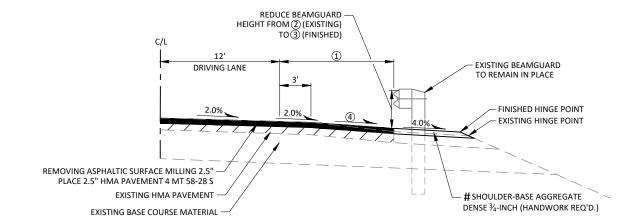
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PAVED SHOULDER SLOPE ADJUSTMENT (INCREASE GUARDRAIL HEIGHT)

NOTE: ADJUST PAVED SHOULDER SLOPE FROM STA. 138+27 - STA. 142+43, RT. TO ACHIEVE ALLOWABLE GUARDRAIL HEIGHT RANGE 27.75" - 32". THE EXISTING GUARDRAIL HEIGHT MEASURES 27" - 28" AND NEEDS TO BE ADJUSTED BY 0.75". SHOULDER SLOPE ADJUSTMENTS ARE REQUIRED BETWEEN THE EDGE OF THE DRIVING LANE AND FACE OF GUARDRAIL FROM STA. 138+27 - STA. 142+43, RT. ALL WORK REQUIRED TO ACHIEVE DESIRED GUARDRAIL HEIGHT IS PAID FOR UNDER THE REMOVING ASPHALTIC SURFACE MILING BID ITEM.

INCORPORATE EXISTING SHOULDER AGGREGATE TO GREATEST EXTENT PRACTICAL PRIOR TO PLACEMENT OF BASE AGGREGATE DENSE 3/4-INCH.

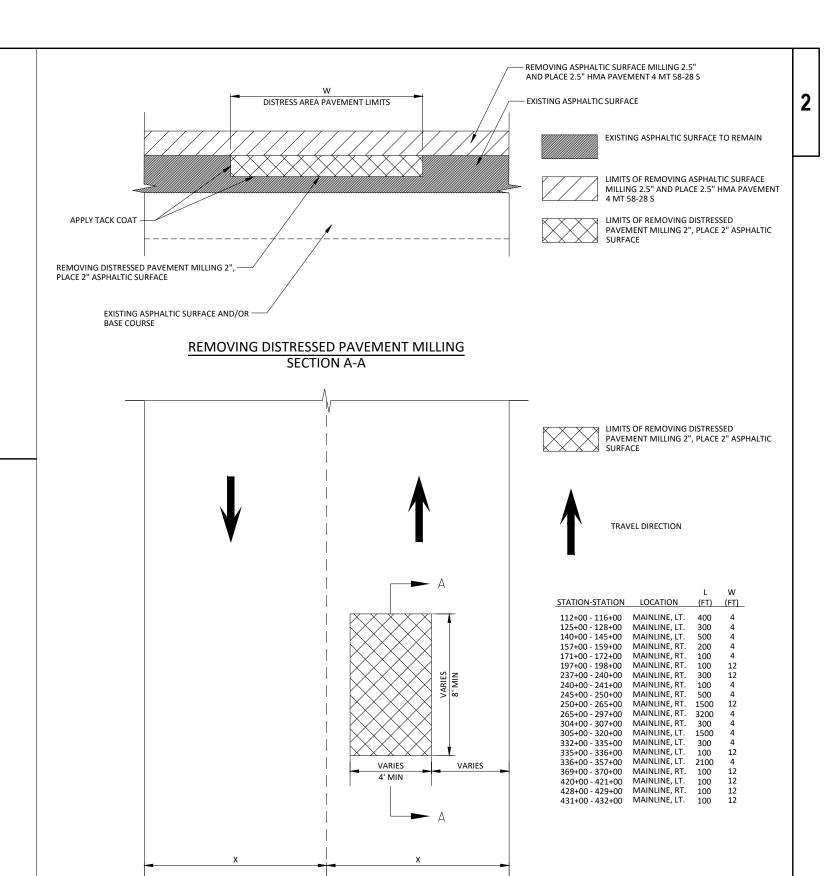


PAVED SHOULDER SLOPE ADJUSTMENT (REDUCE GUARDRAIL HEIGHT)

			(2)		(3)		
			EXISTING BEAM GUARD		EXISTING BEAM GUARD		4
		1	HEIGHT PRIOR TO CROSS		HEIGHT POST CROSS		SLOPE
STA STA.	LOCATION	(FT.)	SLOPE ADJUSTMENT	REMARKS	SLOPE ADJUSTMENT	EXISTING	FINISHED
420+62 - 423+29	MAINLINE, RT.	11	28.5" - 33.5"	REDUCE 0" - 1.5"	28.5" - 32"	4.0%	VARIES 2.4%-4.0%
421+34 - 422+52	MAINLINE, LT.	12	29.5" - 33"	REDUCE 0" - 1"	29.5" - 32"	4.0%	VARIES 3.0%-4.0%

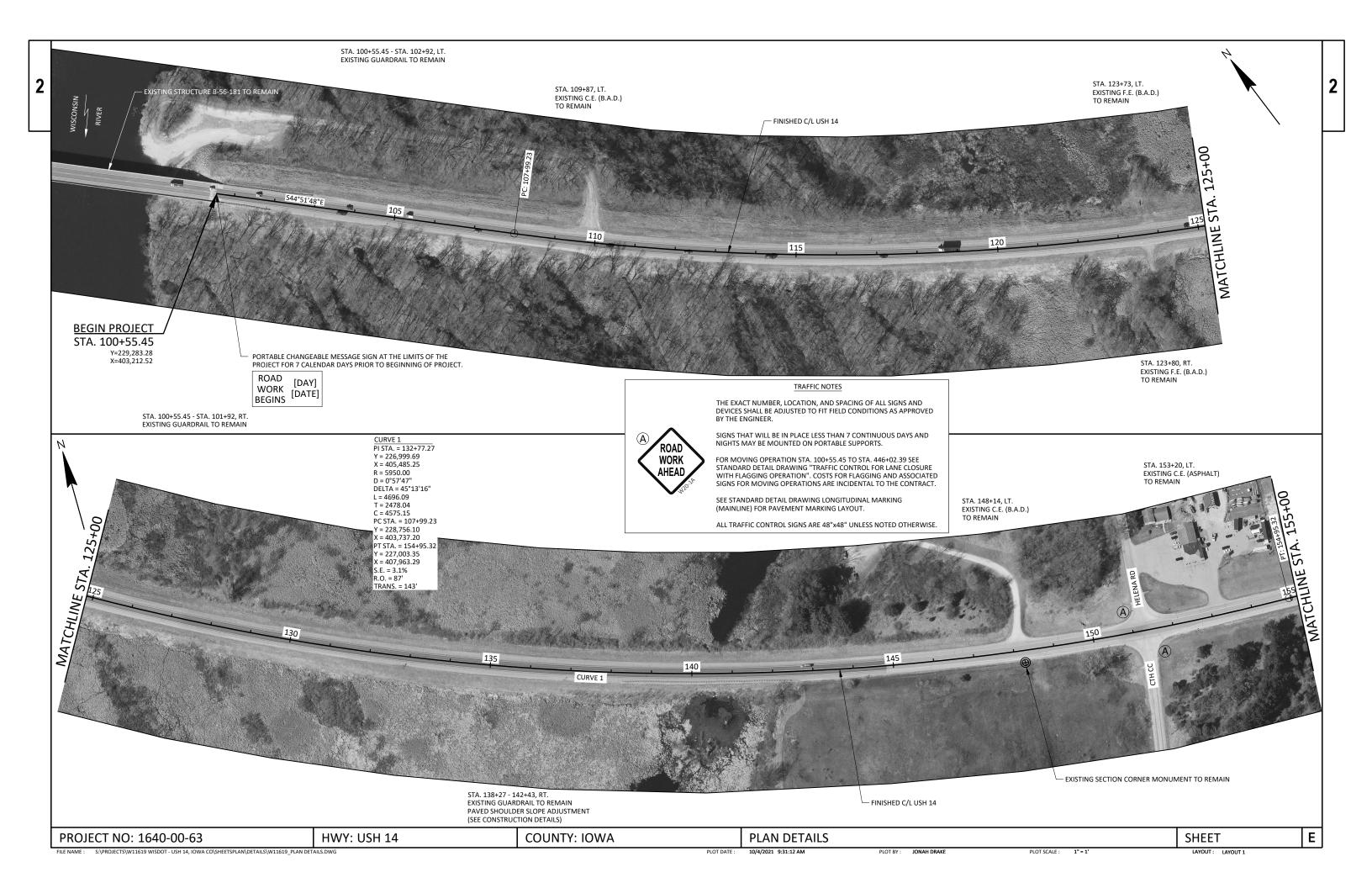
NOTE: ADJUST PAVED SHOULDER SLOPE FROM STA. 420+62 - STA. 423+29, RT. AND STA. 421+34 - STA. 422+52, LT. TO ACHIEVE ALLOWABLE GUARDRAIL HEIGHT RANGE 27.75" - 32". THE EXISTING GUARDRAIL HEIGHT MEASURES 28.5" - 33.5" AND 29.5" - 33" RESPECTIVELY AND NEEDS TO BE ADJUSTED TO MEET THE ALLOWABLE GUARDRAIL HEIGHT RANGE OF 27.75" - 32". SHOULDER SLOPE ADJUSTMENTS ARE REQUIRED BETWEEN 15' FROM THE USH 14 FINISHED C/L TO THE FACE OF GUARDRAIL FROM STA. 420+62 - STA. 423+29, RT. AND STA. 421+34 - STA. 422+52, LT. ALL WORK REQUIRED TO ACHIEVE DESIRED GUARDRAIL HEIGHT IS PAID FOR UNDER THE REMOVING ASPHALTIC SURFACE MILLING BID ITEM.

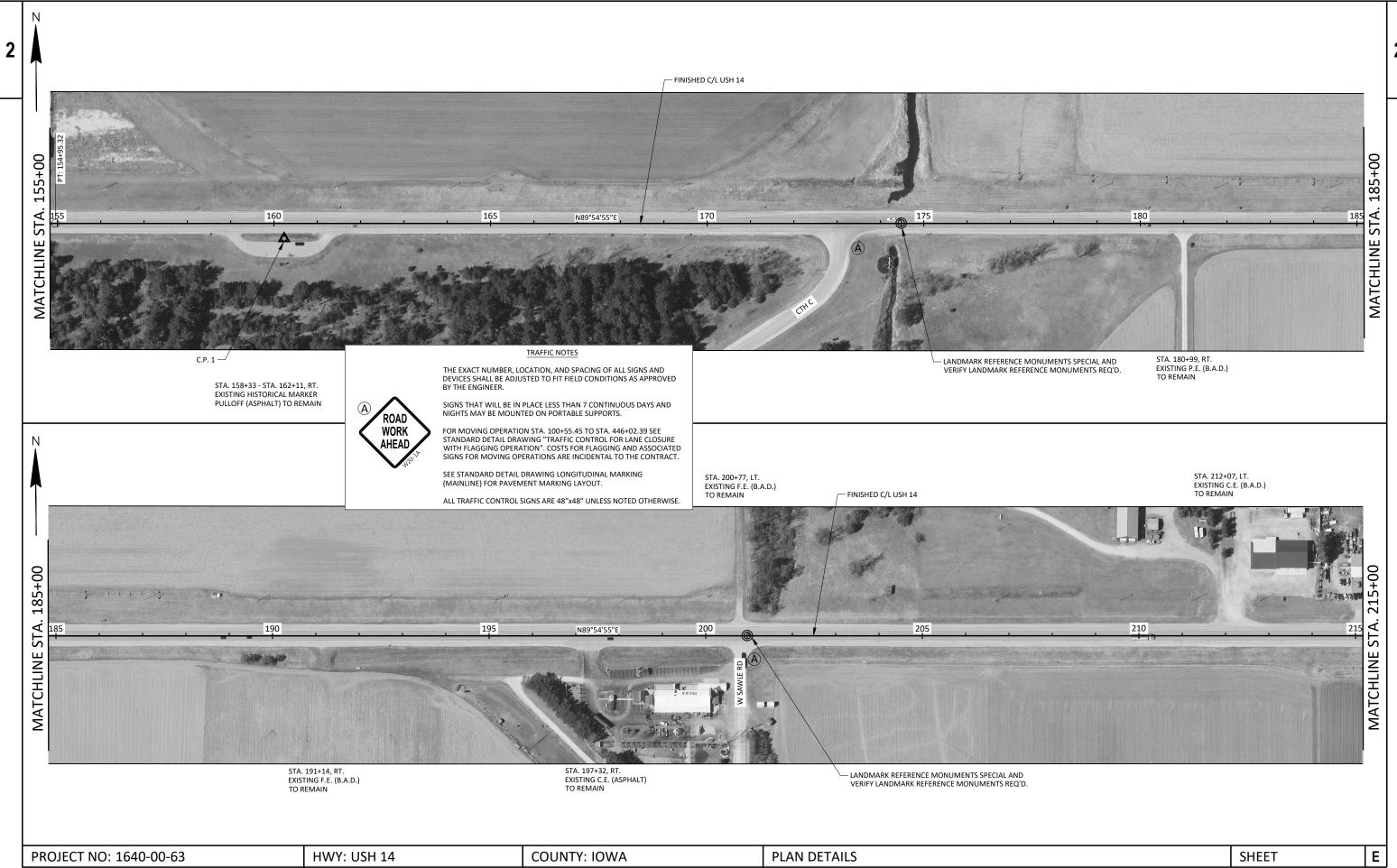
INCORPORATE EXISTING SHOULDER AGGREGATE TO GREATEST EXTENT PRACTICAL PRIOR TO PLACEMENT OF BASE AGGREGATE DENSE 3/4-INCH.

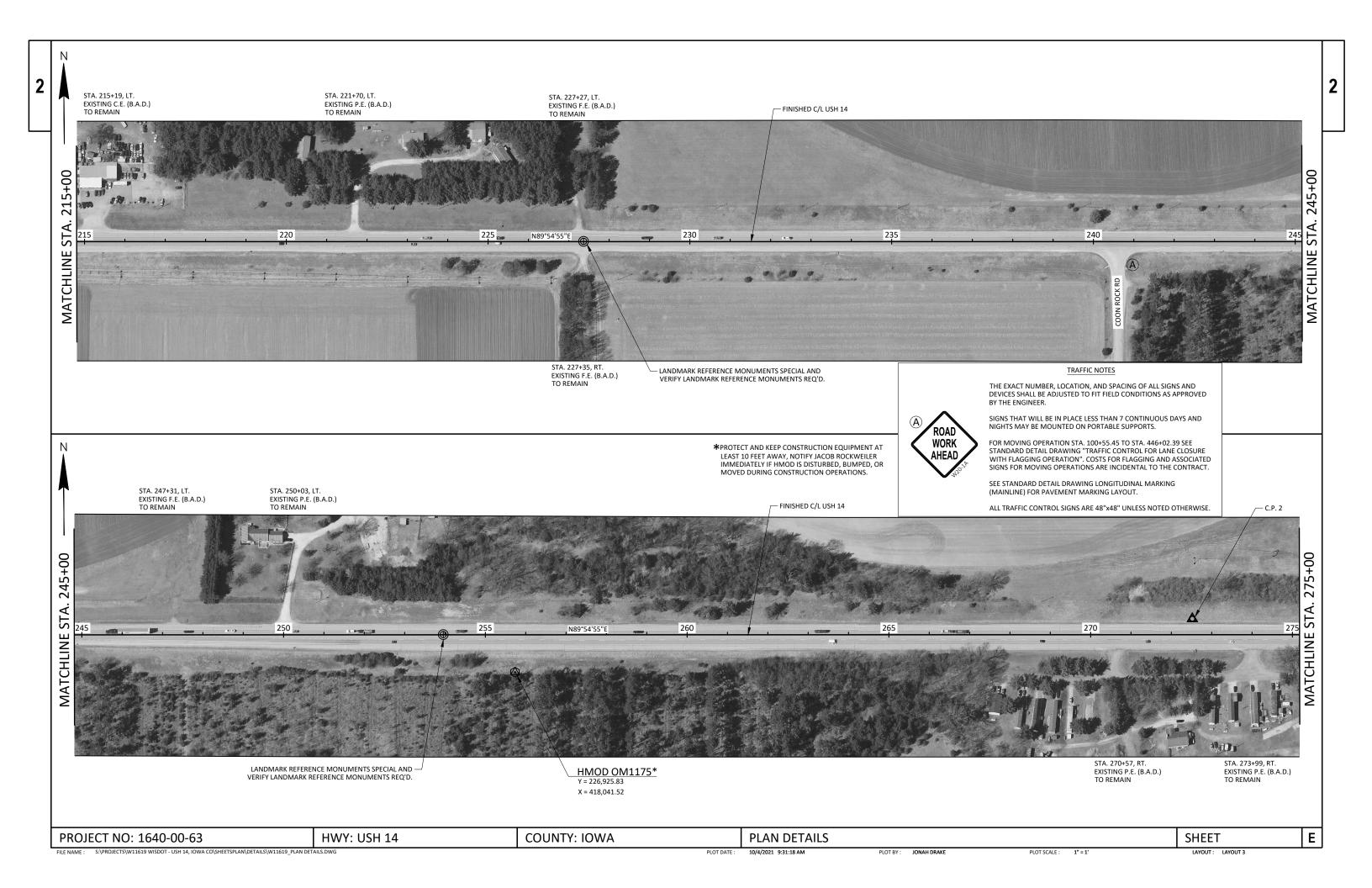


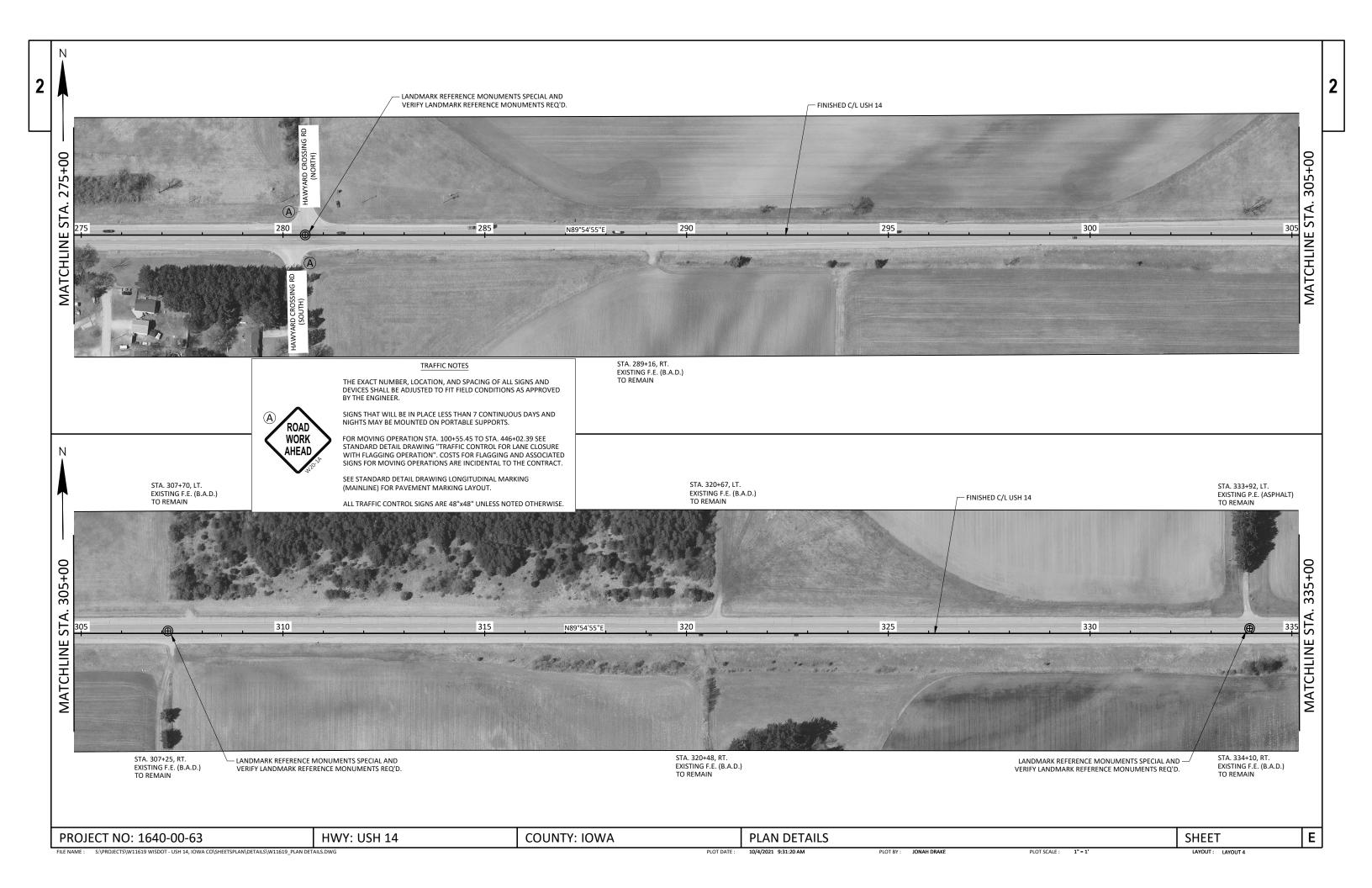
PROJECT NO: 1640-00-63 HWY: USH 14 COUNTY: IOWA CONSTRUCTION DETAILS SHEET **E**

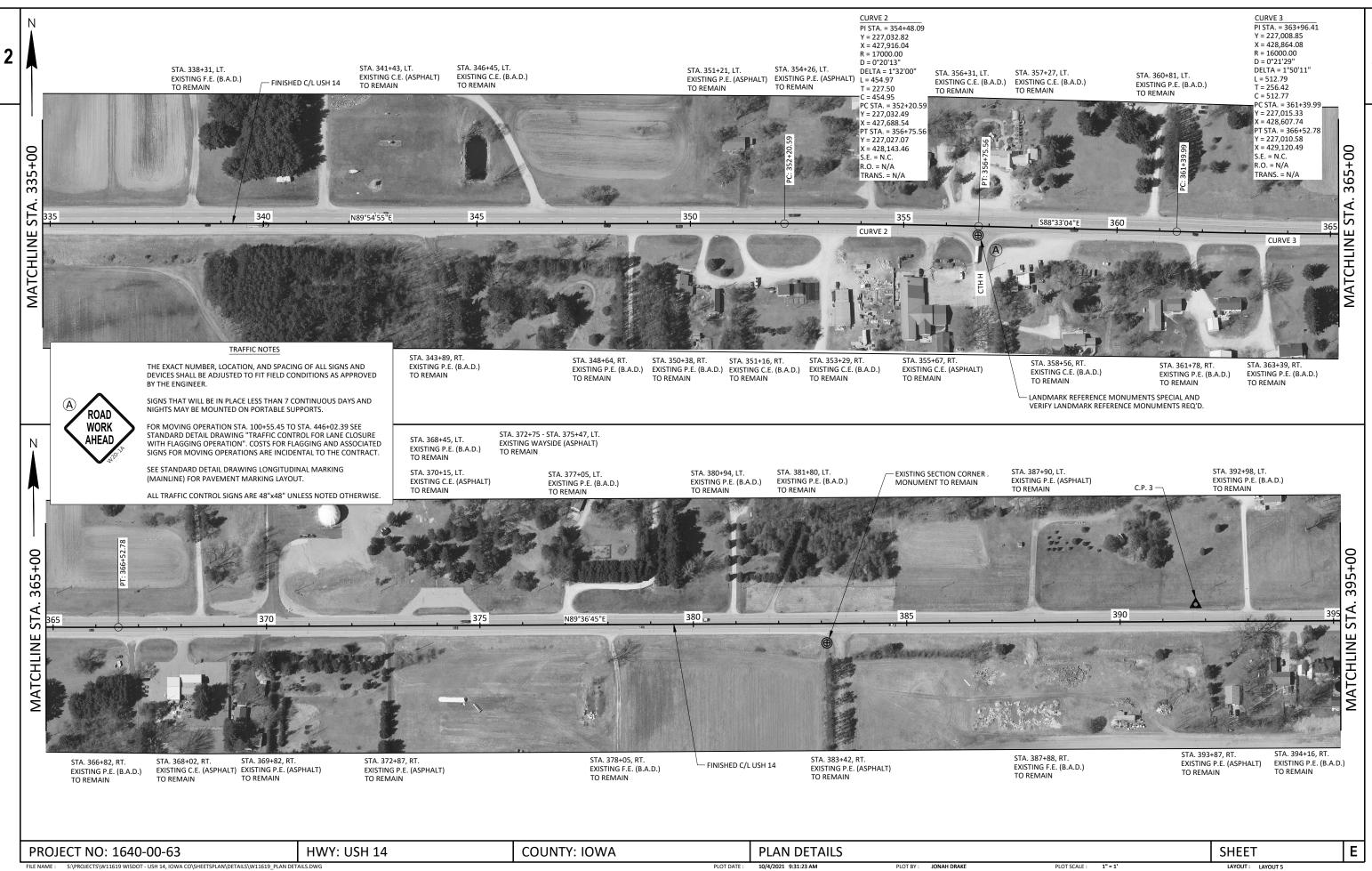
PLAN VIEW

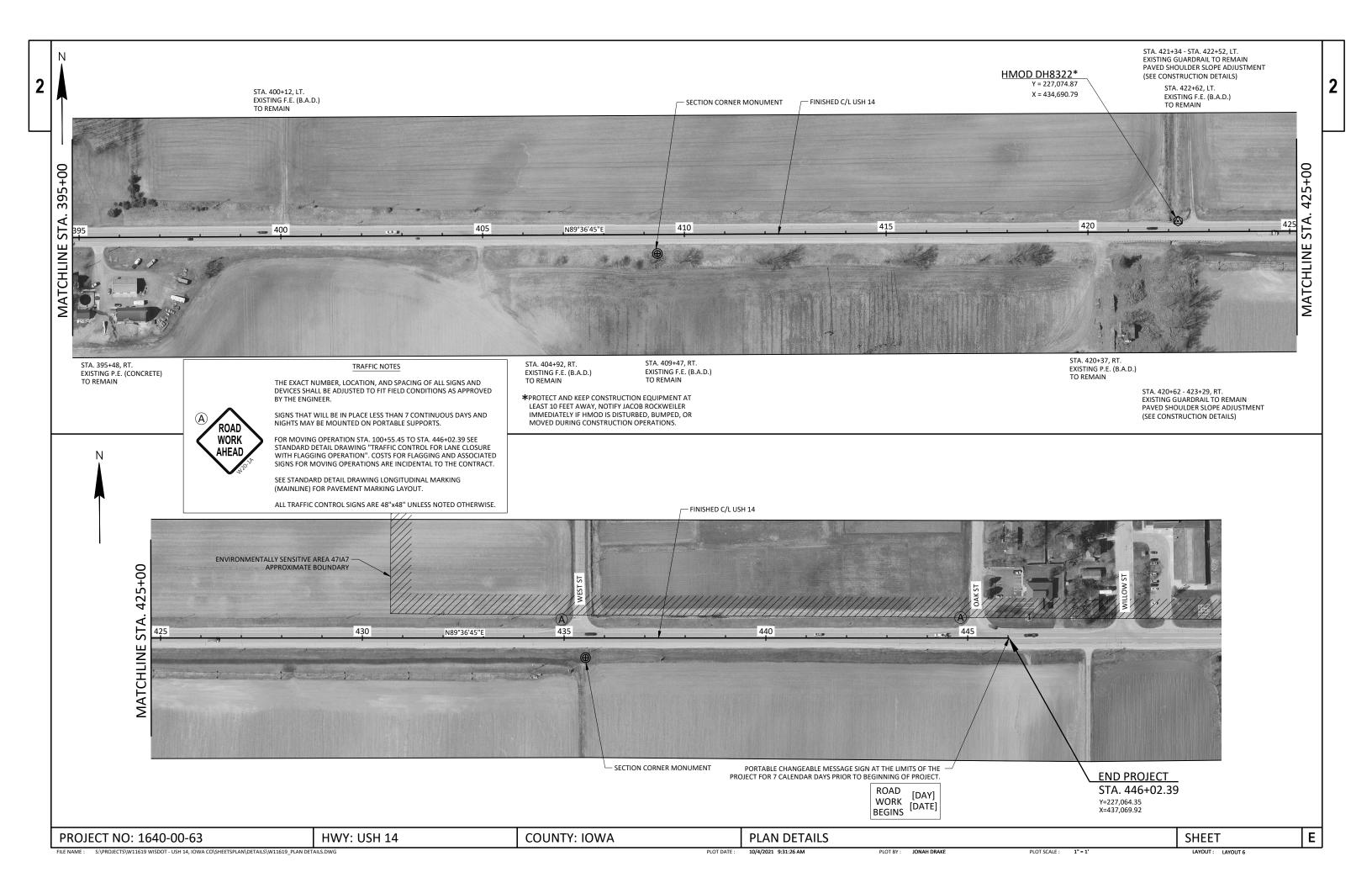












1640-00-63

					1040-00-03
Line	Item	Item Description	Unit	Total	Qty
0002	204.0115	Removing Asphaltic Surface Butt Joints	SY	510.000	510.000
0004	204.0120	Removing Asphaltic Surface Milling	SY	178,000.000	178,000.000
0006	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 1640-00-63	EACH	1.000	1.000
8000	213.0100	Finishing Roadway (project) 01. 1640-00-63	EACH	1.000	1.000
0010	305.0110	Base Aggregate Dense 3/4-Inch	TON	3,100.000	3,100.000
0012	455.0605	Tack Coat	GAL	13,125.000	13,125.000
0014	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000
0016		HMA Percent Within Limits (PWL) Test Strip Density	EACH	1.000	1.000
0018	460.2005	Incentive Density PWL HMA Pavement	DOL	14,450.000	14,450.000
0020	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	17,280.000	17,280.000
0022	460.2010	Incentive Air Voids HMA Pavement	DOL	24,950.000	24,950.000
0024	460.6224	HMA Pavement 4 MT 58-28 S	TON	24,950.000	24,950.000
0026	465.0105	Asphaltic Surface	TON	850.000	850.000
0028	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	59,900.000	59,900.000
0030	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	29,150.000	29,150.000
0032	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1640-00-63	EACH	1.000	1.000
0034	619.1000	Mobilization	EACH	1.000	1.000
0036	624.0100	Water	MGAL	47.000	47.000
0038	642.5001	Field Office Type B	EACH	1.000	1.000
0040	643.0300	Traffic Control Drums	DAY	250.000	250.000
0040	643.0900	Traffic Control Signs	DAY	1,560.000	1,560.000
0042	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0044	643.3105	Temporary Marking Line Paint 4-Inch	LF	28,920.000	28,920.000
0048	643.3120	Temporary Marking Line Epoxy 4-Inch	LF	28,920.000	28,920.000
0048	643.5000	Traffic Control	EACH	1.000	1.000
0050	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	70,370.000	70,370.000
0052	646.3040	Marking Line Grooved Wet Ref Epoxy 8-Inch	LF	1,150.000	1,150.000
	646.4520		LF LF	38,250.000	•
0056		Marking Line Same Day Epoxy 4-Inch		,	38,250.000
0058	648.0100	Locating No-Passing Zones	MI	6.550	6.550
0060	650.8000	Construction Staking Resurfacing Reference	LF	34,550.000	34,550.000
0062	650.9911	Construction Staking Supplemental Control (project) 01. 1640-00-63	EACH	1.000	1.000
0064	690.0150	Sawing Asphalt	LF	1,100.000	1,100.000
0066	740.0440	Incentive IRI Ride	DOL	29,360.000	29,360.000
8800	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	2,000.000	2,000.000
0070	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	1,320.000	1,320.000
0072	SPV.0060	Special 01. Landmark Reference Monuments Special	EACH	8.000	8.000
0074	SPV.0060	Special 02. Verify Landmark Reference Monuments	EACH	8.000	8.000
0076	SPV.0180	Special 01. Removing Distressed Pavement Milling	SY	7,500.000	7,500.000

MAINLINE, RT.

MAINLINE, LT.

MAINLINE, LT.

MAINLINE

TOTAL=

40

40

45

30

510

365+35 - 357+12

435+07 - 435+72

444+90 - 445+60

445+97.39 - 445+97.39

REMOVING ASPHALTIC SURFACE MILLING

		204.0120
STATION - STATION	LOCATION	(SY)
100+60.45 - 106+85	MAINLINE	3,040
106+85 - 144+83	MAINLINE	17,480
144+83 - 156+09	MAINLINE	5,700
156+09 - 446+02.39	MAINLINE	149,940
-	SIDEROADS	1,840

TOTAL = 178,000

PREPARE FOUNDATION FOR ASPHALTIC PAVING

	211.0101 01. 1640-00-63
LOCATION	(EACH)
MAINLINE	1
TOTAL =	1
	MAINLINE

BASE AGGREGATE DENSE

		305.0110
STATION - STATION	LOCATION	(TON)
100+55.45 - 446+02.39	MAINLINE	2,900
-	P.E./F.E./C.E.	100
-	UNDISTRIBUTED	100
	TOTALS =	3,100

HMA PAVEMENT

CTHH

WEST ST.

OAK ST.

END PROJECT

		455.0605 TACK COAT	460.6224 HMA PAVEMENT 4MT58-28S	465.0105 ASPHALTIC SURFACE	SPV.0180.01 REMOVING DISTRESSED PAVEMENT MILLING
STATION - STATION	LOCATION	(GAL)	(TON)	(TON)	(SY)
100+55.45 - 106+85	MAINLINE	214	426	-	-
106+85 - 144+83	MAINLINE	1,234	2,456	-	-
144+83 - 156+09	MAINLINE	401	798	-	-
156+09 - 446+02.39	MAINLINE	10,621	21,012	-	-
112+00 - 116+00	MAINLINE, LT.	13	-	20	180
125+00 - 128+00	MAINLINE, LT.	9	-	15	135
140+00 - 145+00	MAINLINE, LT.	16	-	25	225
157+00 - 159+00	MAINLINE, RT.	6	-	10	90
171+00 - 172+00	MAINLINE, RT.	3	-	5	45
197+00 - 198+00	MAINLINE, RT.	9	-	15	135
237+00 - 240+00	MAINLINE, RT.	28	-	45	400
240+00 - 241+00	MAINLINE, RT.	3	-	5	45
245+00 - 250+00	MAINLINE, RT.	16	-	25	225
250+00 - 265+00	MAINLINE, RT.	142	-	230	2,025
265+00 - 297+00	MAINLINE, RT.	100	-	165	1,425
304+00 - 307+00	MAINLINE, RT.	9	-	15	135
305+00 - 320+00	MAINLINE, LT.	47	-	75	670
332+00 - 335+00	MAINLINE, LT.	9	-	15	135
335+00 - 336+00	MAINLINE, LT.	9	-	15	135
336+00 - 357+00	MAINLINE, LT.	67	-	110	955
369+00 - 370+00	MAINLINE, RT.	9	-	15	135
420+00 - 421+00	MAINLINE, LT.	9	-	15	135
428+00 - 429+00	MAINLINE, RT.	9	-	15	135
431+00 - 432+00	MAINLINE, LT.	9	-	15	135
-	SIDEROADS	130	258	-	-
	TOTAL =	13,125	24,950	850	7,500

PWL MIXTURE USE TABLE

The following acceptance criteria are applicable for this project:									
							QUALITY MANAGEMENT PR	OGRAM TO BE USED FOR:	
LOCATION	STATION	MIXTURE USE	UNDERLYING SURFACE	BIDITEM	TONS	THICKNESS	MIXTURE ACCEPTANCE	DENSITY ACCEPTANCE	
12 foot Driving Lanes & Passing Lanes	100+55.45 - 446+02.39	Upper Layer	Milled Existing HMA Surface	4 MT 58-28 S	14,450	2.5"	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density PWL HMA Pavement 460.2005	
Shoulders, Bypass Lanes, & Righ Turn Lanes		Upper Layer	Milled Existing HMA Surface	4 MT 58-28 S	10,500	2.5"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not eligible for the incentive	

ASPHALTIC RUMBLE STRIPS

ASPHALTIC RUMBLE STRIPS 2-LANE RURAL 465.0475 465.0425 SHOULDER CENTERLINE STATION - STATION LOCATION COMMENTS (LF) (LF) 100+55.45 - 441+57 MAINLINE, RT. 28,750 TYPE 1 100+55.45 - 443+89 MAINLINE, LT. 31,150 TYPE 1 100+55.45 - 443+89 MAINLINE 29,150 TOTALS = 59,900 29,150

WATER 624.0100

PROJECT (MGAL)

1640-00-63 47

TOTAL = 47

TRAFFIC CONTROL

	643.0300	643.0900	643.1050 SIGNS	643.5000 TRAFFIC
	DRUMS	SIGNS	PCMS	CONTROL
LOCATION	(DAYS)	(DAYS)	(DAYS)	(EACH)
PROJECT	-	-	14	1
MAINLINE	-	360	-	-
HELENA RD	-	120	-	-
CTHCC	-	120	-	-
CTH C	-	120	-	-
W SAWLE RD	-	120	-	-
COON ROCK RD	-	120	-	-
HAYWARD CROSSING (NORTH)	-	120	-	-
HAYWARD CROSSING (SOUTH)	-	120	-	-
CTHH	-	120	-	-
WEST ST	-	120	-	-
OAK ST	-	120	-	-
UNDISTRIBUTED	250	-	-	-
TOTALS =	250	1,560	14	1

PROJECT NO: 1640-00-63 HWY: USH 14 COUNTY: IOWA MISCELLANEOUS QUANTITIES SHEET **E**

3

PAVEMENT MARKING

			WETR	646.1040 NG LINE GRO REF EPOXY	I-INCH	646.3040 MARKING LINE GROOVED WET REF EPOXY 8-INCH	MARKING LI EPOX	.4520 NE SAME DAY Y 4-INCH	TEMPORAF LINE PAI	.3105 RY MARKING NT 4-INCH	643.: TEMPORAR LINE EPO	Y MARKING XY 4-INCH
			WHITE	WHITE	WHITE	WHITE	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW
			SOLID	12.5' SKIP	3' SKIP	SOLID	SOLID	12.5' SKIP	SOLID	4' SKIP	SOLID	4' SKIP
STATION - STATION	LOCATION	DESCRIPTION	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)
100+55.45 - 101+78	MAINLINE	PASSING	-	-	-	-		31		10		10
101+78 - 112+95	MAINLINE	WB PASSING ONLY	-	-	-	-	1,117	280	1,117	90	1,117	90
112+95 - 147+94	MAINLINE	DOUBLE YELLOW	-	-	-	-	6,998	-	6,998	-	6,998	-
147+94 - 158+52	MAINLINE	EB PASSING ONLY	-	-	-	-	1,058	265	1,058	85	1,058	85
158+52 - 170+00	MAINLINE	PASSING	-	-	-	-	-	287	-	92	-	92
170+00 - 182+45	MAINLINE	EB PASSING ONLY	-	-	-	-	1,245	312	1,245	100	1,245	100
182+45 - 240+48	MAINLINE	PASSING	-	-	-	-	-	1,451	-	465	-	465
240+48 - 258+33	MAINLINE	WB PASSING ONLY	-	-	-	-	1,785	447	1,785	143	1,785	143
258+33 - 267+76	MAINLINE	DOUBLE YELLOW	-	-	-	-	1,886	-	1,886	-	1,886	-
267+76 - 286+05	MAINLINE	WB PASSING ONLY	-	-	-	-	1,829	458	1,829	147	1,829	147
286+05 - 299+16	MAINLINE	DOUBLE YELLOW	-	-	-	-	2,622	-	2,622	-	2,622	-
299+16 - 370+56	MAINLINE	EB PASSING ONLY	-	-	-	-	7,140	1,785	7,140	573	7,140	573
370+56 - 436+75	MAINLINE	PASSING	-	-	-	_	-	1,655	-	532	-	532
436+75 - 446+02.39	MAINLINE	WB PASSING ONLY	-	-	-	-	928	231	928	75	928	75
148+60 - 150+60	MAINLINE, RT	RIGHT TURN LANE	-	-	-	200	-	-	-	-	-	-
151+99 - 153+99	MAINLINE, LT	RIGHT TURN LANE	-	-	-	200	-	-	-	-	-	-
170+32 - 172+32	MAINLINE, RT	RIGHT TURN LANE	-	_	-	200	-	-	-	-	-	-
245+60 - 298+70	MAINLINE, RT	PASSING LANE	-	883	145	-	-	_	-	-	-	-
277+56 - 279+56	MAINLINE, RT.	RIGHT TURN LANE	-	_	-	200	_	_	_	-	-	-
298+70 - 365+29	MAINLINE, LT	PASSING LANE	-	1,205	163	-	-	_	-	-	-	-
352+54 - 356+04	MAINLINE, RT.	RIGHT TURN LANE	-	-	-	-	-	-	-	-	-	
172+40 - 174+55	MAINLINE, LT	BYPASS LANE	-	62	-	350	-	_	-	-	-	-
443+58 - 446+02.39	MAINLINE, RT	BYPASS LANE	-	62	-	-	-	_	-	-	_	-
100+55.45 - 446+02.39	MAINLINE	WHITE EDGELINES	67,850	_	-	_	_	_	_	-	-	-
	UNDISTRIBUTED *	LOCATING NO PASSING ZONE		-	-	-	4,440	-	-	-	-	
		SUBTOTALS =	67,850	2,212	308	1,150	31,048	7,202	26,608	2,312	26,608	2,312
		TOTALS =		70,370		1,150	38	,250	28	,920	28,9	920

LOCATING NO PASSING ZONES

		648.0100
STATION - STATION	LOCATION	(MI)
100+55.45 - 446+02.39	MAINLINE	6.55
	TOTAL -	6.55

CONSTRUCTION STAKING

STATION - STATION 100+55.45 - 446+02.39 -	LOCATION MAINLINE PROJECT	650.8000 RESURFACING REFERENCE (LF) 34,550	650.9911 SUPPLEMENTAL CONTROL 01. 1640-00-63 (EACH)
	TOTALS =	34,550	1

SAWING ASPHALT

		690.0150
STATION - STATION	LOCATION	(LF)
153+20	CE, LT.	76
158+33 - 162+11	HIST MARKER PULLOFF, RT.	100
197+32	CE, RT.	115
333+92	PE, LT.	63
341+43	CE, LT.	57
351+21	PE, LT.	34
354+26	PE, LT.	46
355+67	CE, RT.	55
368+02	CE, RT.	73
369+82	PE, RT.	65
370+15	CE, LT.	139
372+87	PE, RT.	40
372+75 - 375+47	WAYSIDE, LT.	85
383+42	PE, RT.	82
387+90	PE, LT.	70
	TOTAL =	1,100

LANDMARK REFERENCE MONUMENTS

		SPV.0060.01	SPV.0060.02
		LANDMARK REFERENCE	VERIFY LANDMARK
		MONUMENTS SPECIAL	REFERENCE MONUMENTS
STATION	LOCATION	(EACH)	(EACH)
174+48	MAINLINE, 0.6' LT.	1	1
200+96	MAINLINE, 0.7' LT.	1	1
227+37	MAINLINE, 0.7' LT.	1	1
253+96	MAINLINE, 0.5' LT.	1	1
280+55	MAINLINE, 0.2' LT.	1	1
307+15	MAINLINE, 6' LT.	1	1
333+96	MAINLINE, 12' LT.	1	1
356+75	MAINLINE, 21' RT.	1	1
	TOTALS =	8	8

PROJECT NO: 1640-00-63 HWY: USH 14 COUNTY: IOWA MISCELLANEOUS QUANTITIES SHEET **E**

^{*} ADDITIONAL QUANTITY FOR POSSIBLE CLOSING OF EXISTING PASSING ZONES LOCATED OUTSIDE OF PROJECT LIMITS (USE ONLY IF REQUIRED)

Standard Detail Drawing List

08D20-01	DRIVEWAYS WITH CURB & GUTTER RETURNS
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
13A10-02A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02B	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13c19-03	HMA LONGITUDINAL JOINTS
15C08-22A	LONGITUDINAL MARKING (MAINLINE)
15C08-22C	PAVEMENT MARKING (TURN LANES)
15C08-22D	PAVEMENT MARKING (TURN LANES)
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-07A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-05A	PAVEMENT MARKING (INTERSECTIONS)
15C35-05B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-05C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
16A01-07	LANDMARK REFERENCE MONUMENTS AND COVERS

6

DRIVEWAY LOCATION AND SPACING DETAILS SIDEWALK SHOWN

GENERAL NOTES

A MAXIMUM RADIUS OF 10 FEET SHALL BE USED FOR NON-COMMERCIAL PRIVATE ENTRANCES. RADII FOR COMMERCIAL DRIVEWAYS SHALL BE DETERMINED BY THE ENGINEER BASED ON TRAFFIC AND DRIVEWAY PERMIT RESTRICTIONS.

THE MINIMUM ANGLE OF INTERSECTION BETWEEN THE DRIVEWAY AND HIGHWAY CENTERLINES SHALL BE 70°.

ALL CURVILINEAR PRIVATE ENTRANCE OUTLINES SHALL BE CONTAINED WITHIN THE

NO DRIVEWAY SHALL BE BUILT WITHIN 3 FEET OF THE PROPERTY LINE EXCEPT FOR EXISTING JOINT DRIVEWAY SHARED BY TWO OWNERS.

W: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

16' MIN. - 35' MAX. COMMERCIAL (CE)

DRIVEWAYS WITH CURB AND GUTTER RETURNS

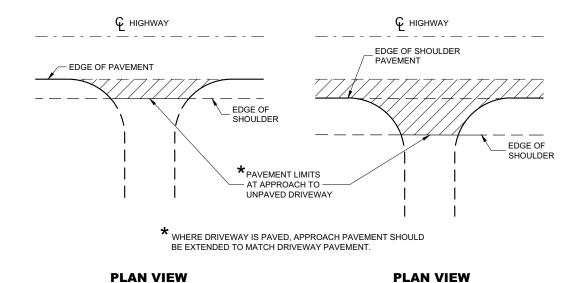
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 00-00-00 DATE

ROADWAY STANDARDS DEVELOPMENT ENGINEER

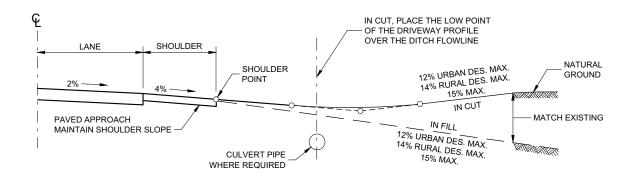
SDD 08D20 0

0 **08D20**

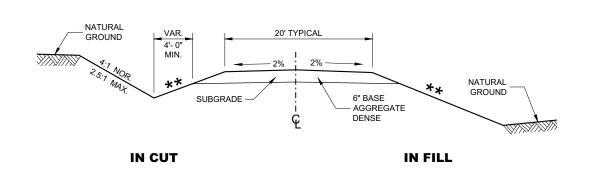


RURAL DRIVEWAY INTERSECTION DETAIL (NO CURB AND GUTTER OR SIDEWALK)

(PAVED SHOULDER ON HIGHWAY)



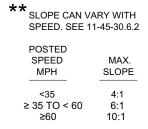
TYPICAL DRIVEWAY PROFILES

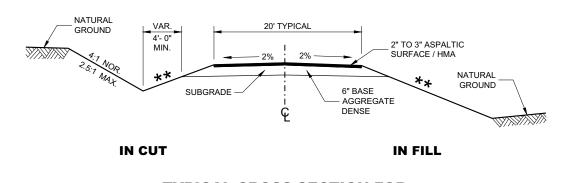


TYPICAL CROSS SECTION FOR

PRIVATE DRIVE OR FIELD ENTRANCE **AGGREGATE SURFACE**

(UNPAVED SHOULDER ON HIGHWAY)





TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

DRIVEWAYS WITHOUT CURB AND GUTTER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

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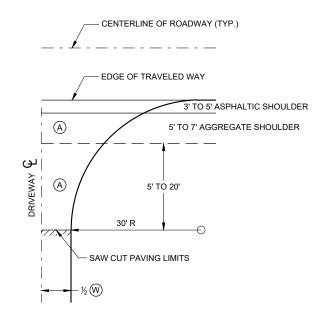
08D21

SD

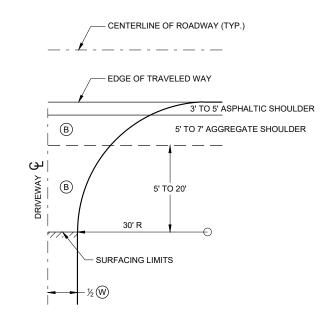
SDD 08D21

6

December 2017 DATE

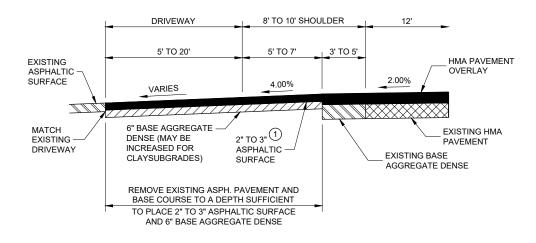


- (A) : PAID FOR AS ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES. (TON)
- ig(Big) : PAID FOR AS BASE AGGREGATE DENSE 1 $1\mbox{\ensuremath{\nl}{''}}$ (TON)
- W): DRIVEWAY WIDTH 16' MIN. 24' MAX.

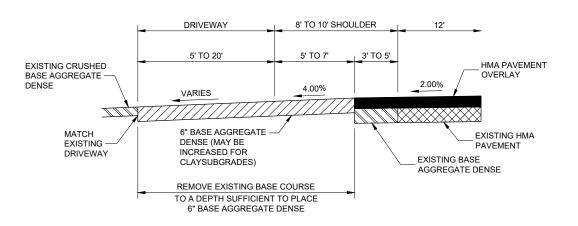


PLAN VIEW HALF SECTION





PROFILE VIEW
RURAL ENTRANCE
WITH ASPHALTIC SURFACE
RESURFACING PROJECTS



PROFILE VIEW
RURAL ENTRANCE
WITH AGGREGATE SURFACE
6" BASE AGGREGATE DENSE
RESURFACING PROJECTS

DRIVEWAYS WITHOUT CURB AND GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

December 2016

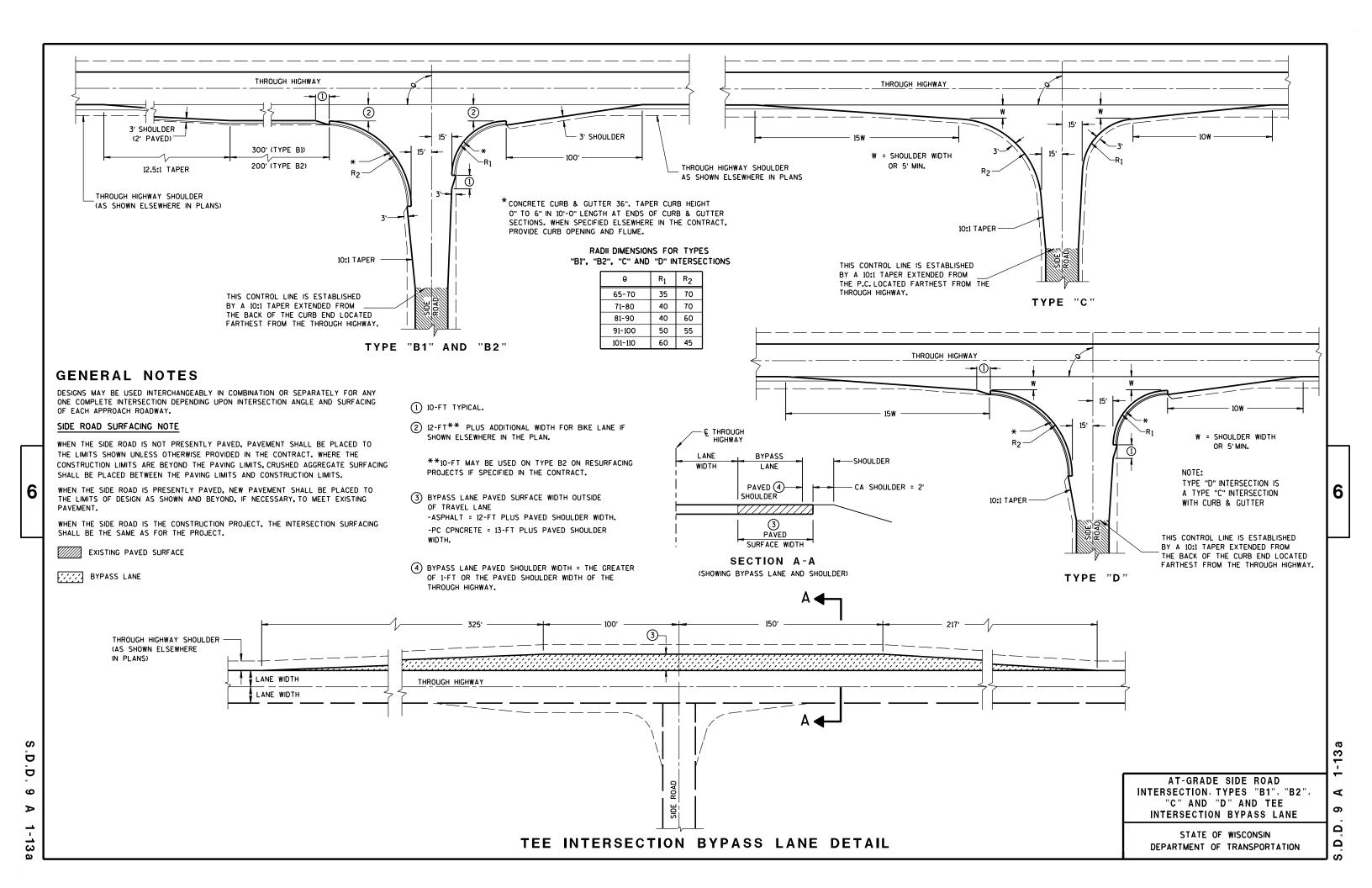
DATE

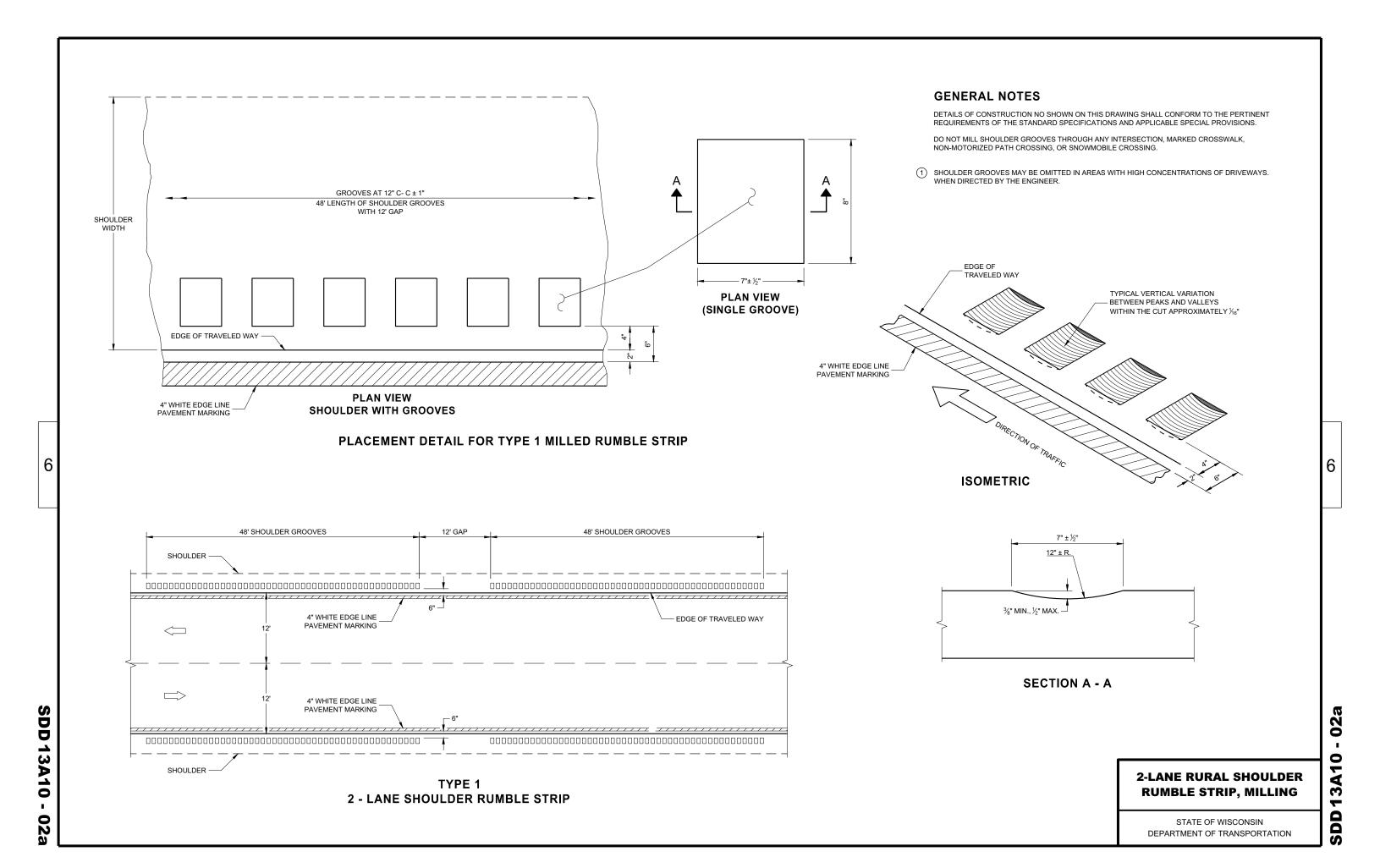
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

6

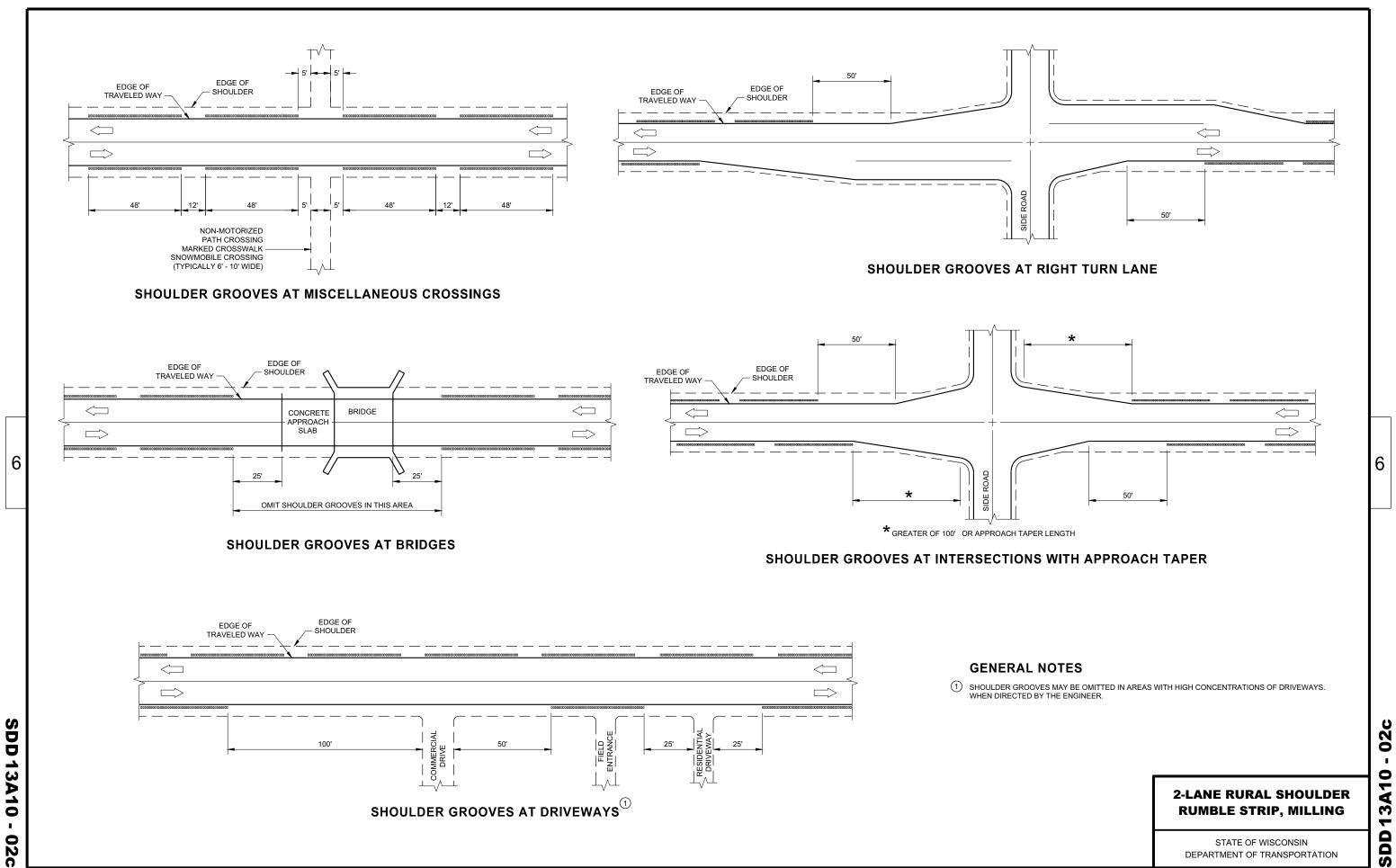
SDD 08D22 -

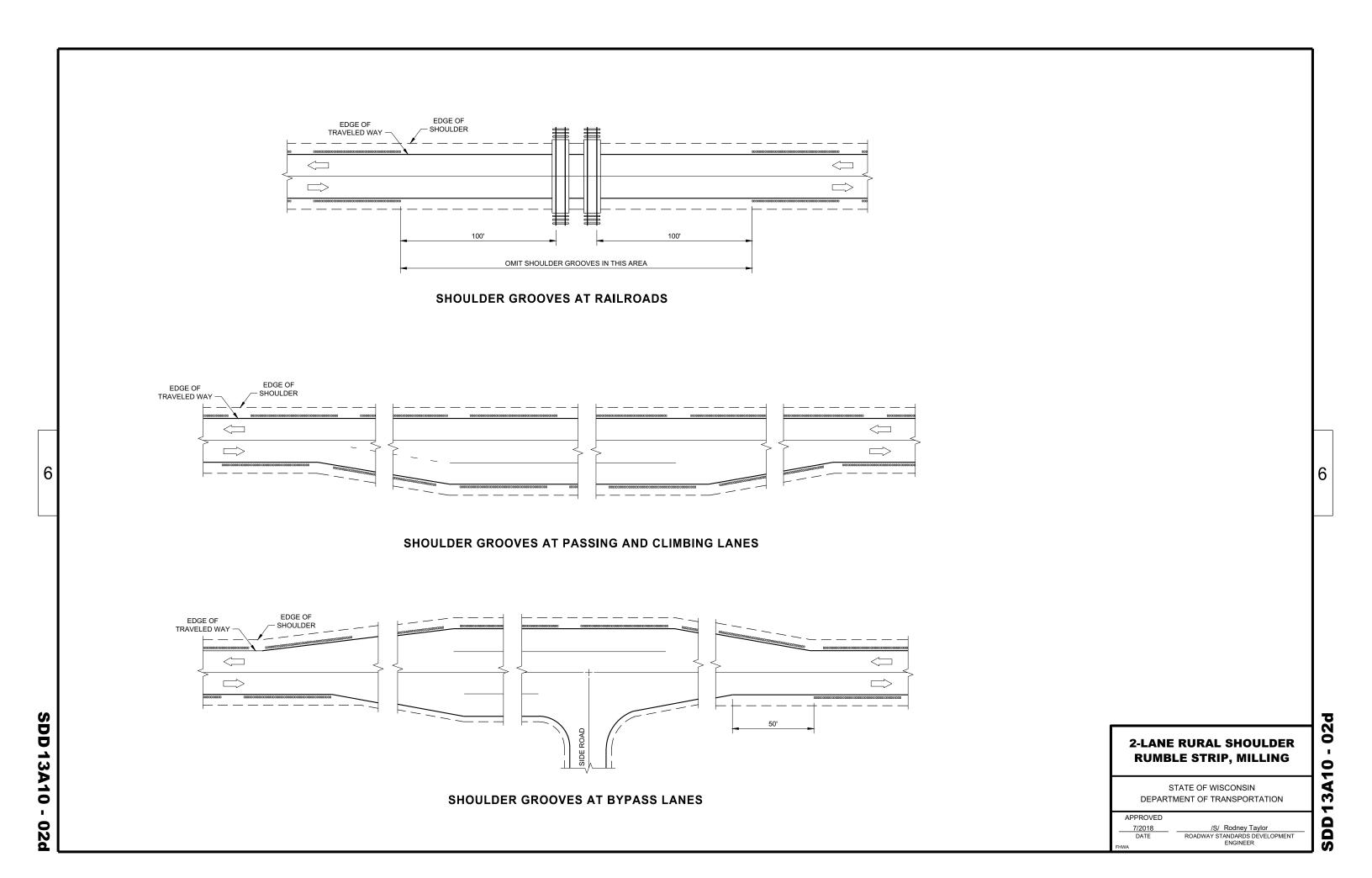
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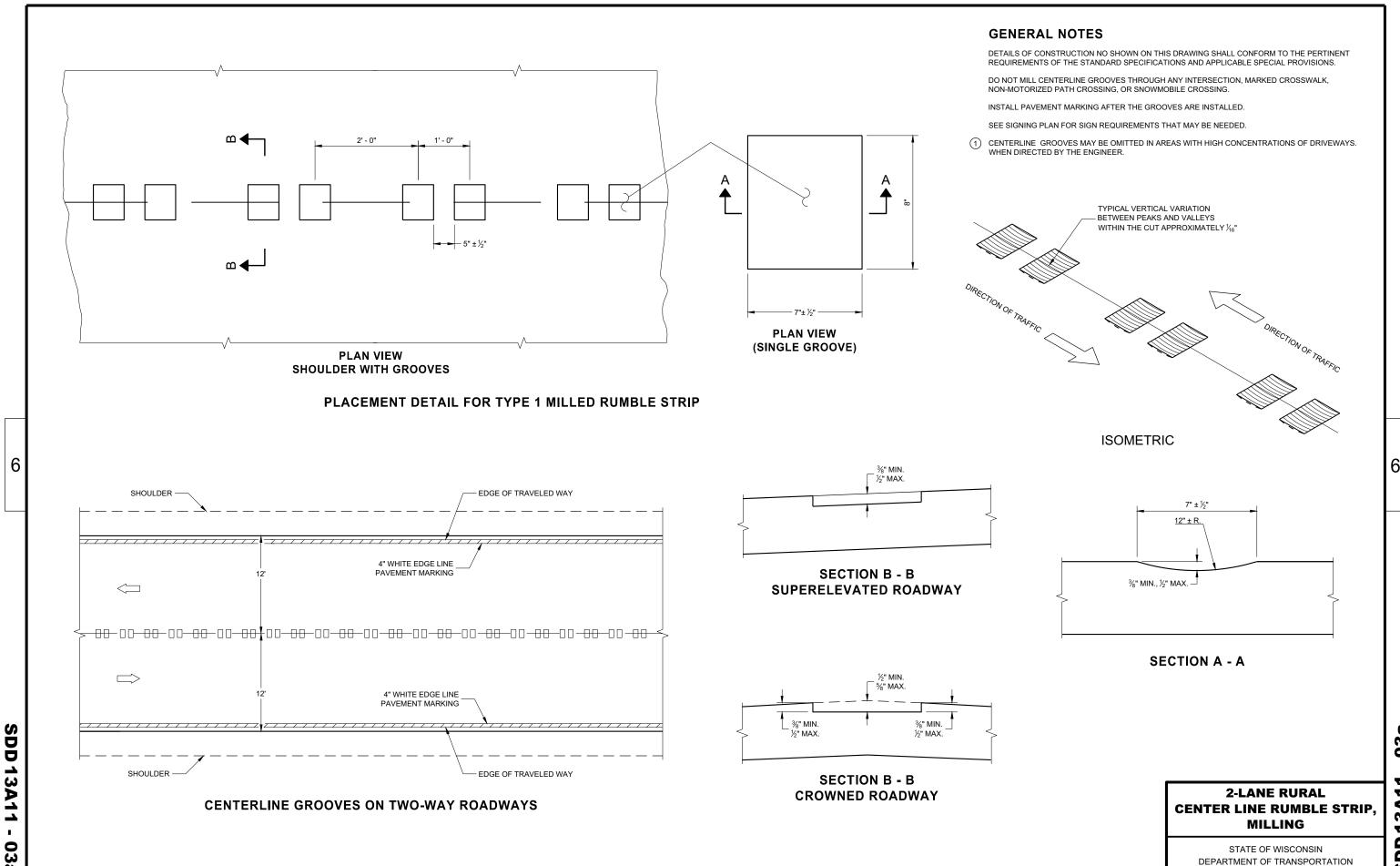




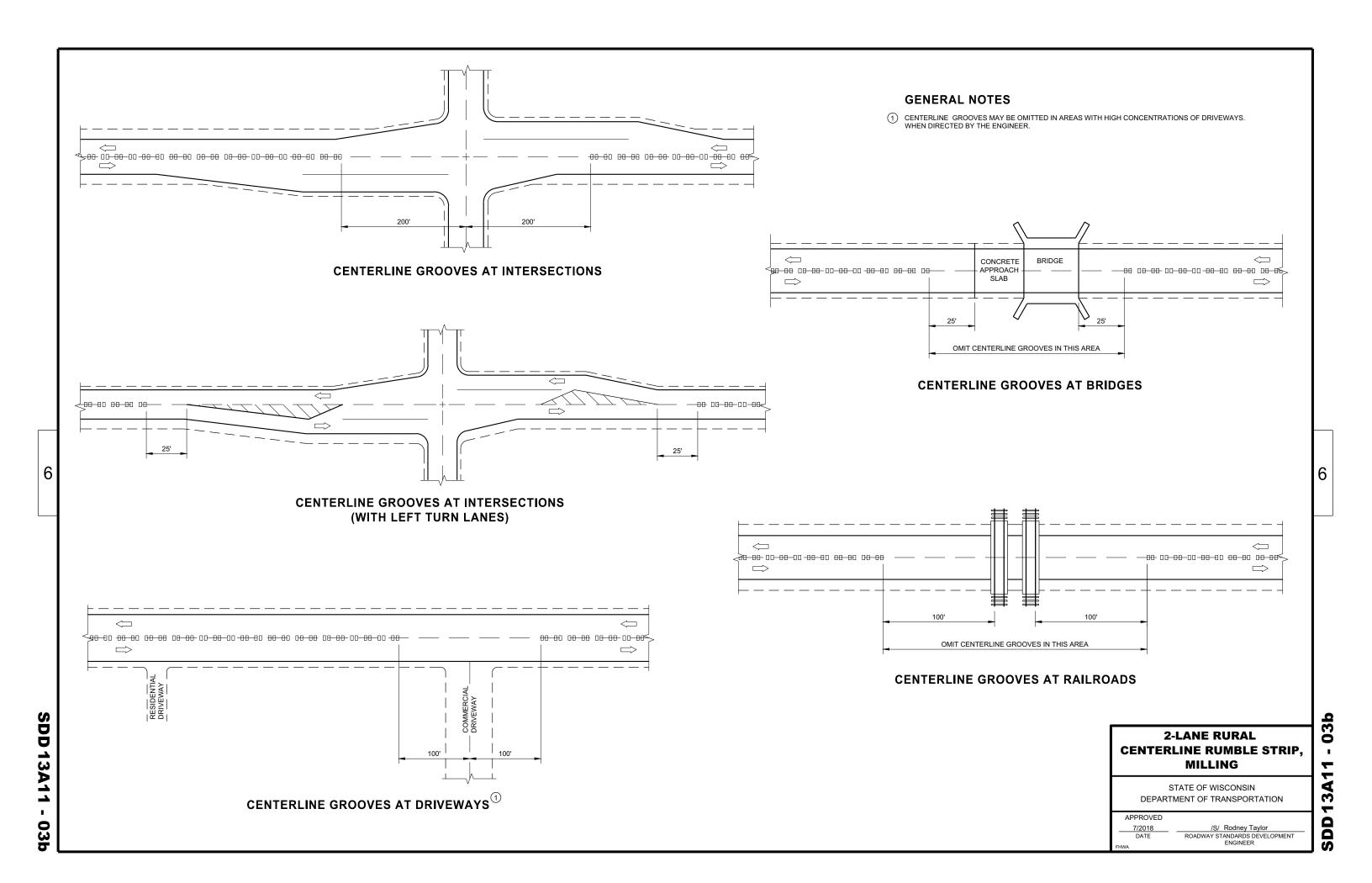
DEPARTMENT OF TRANSPORTATION

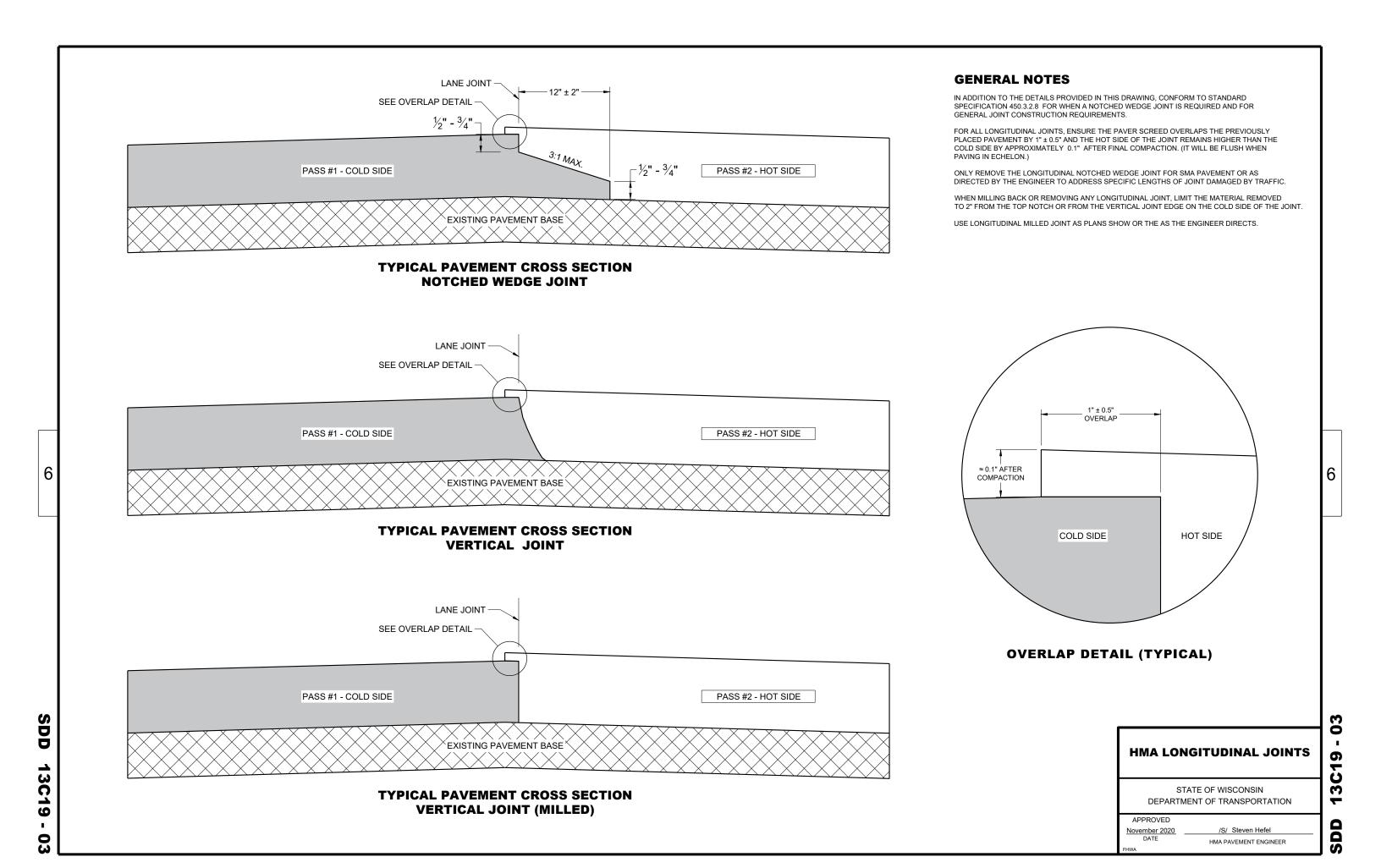


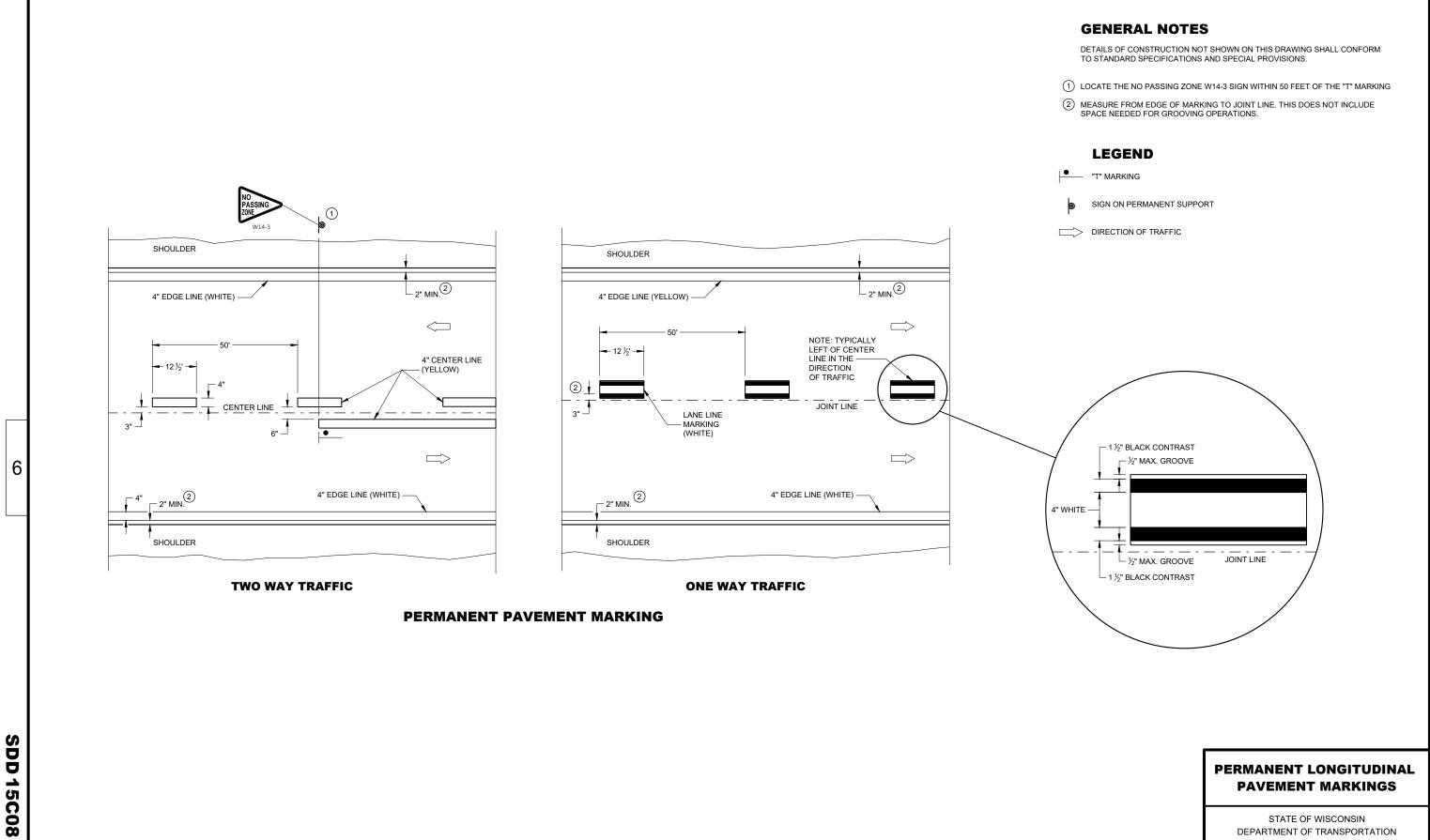




Ö SDD







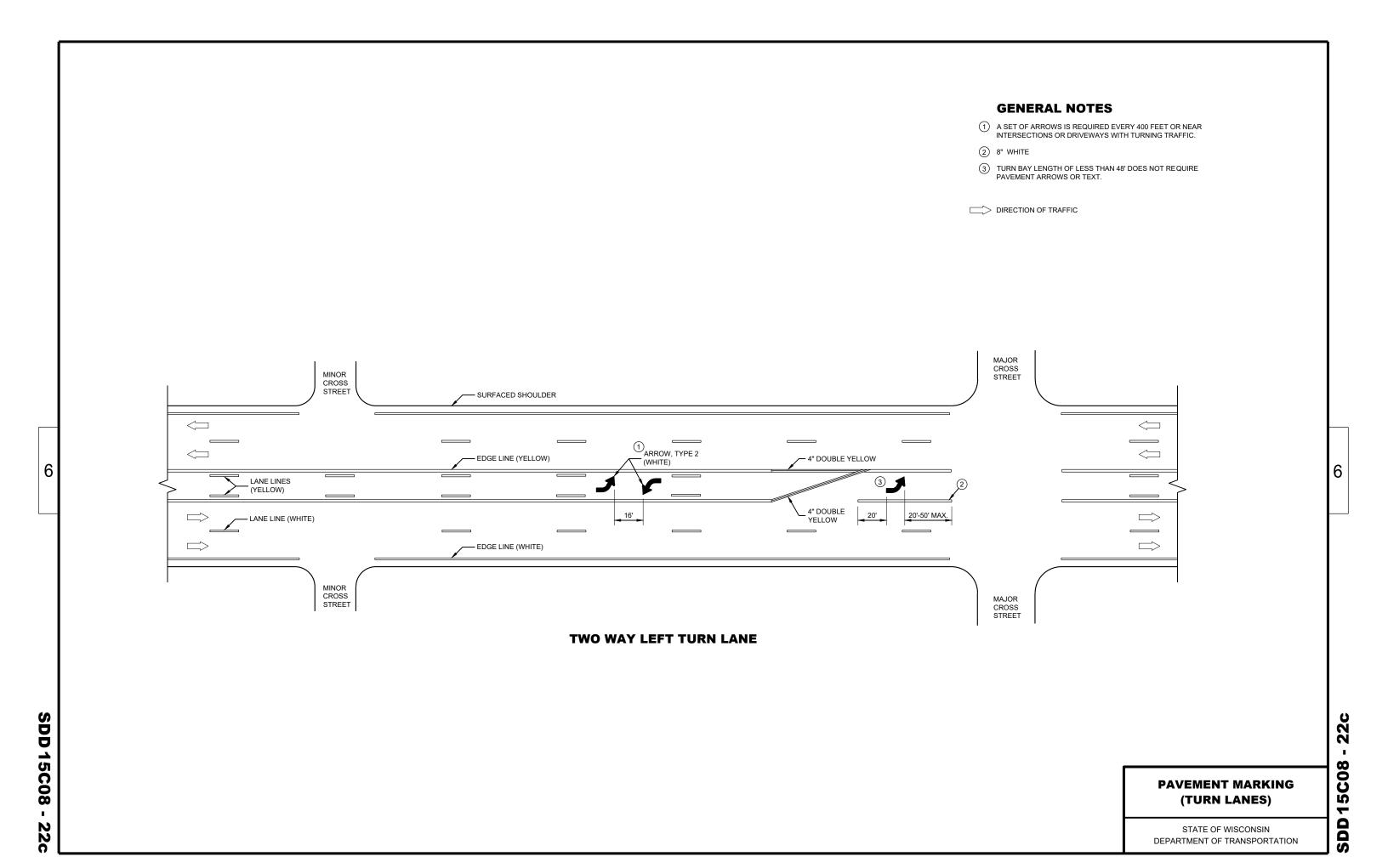
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

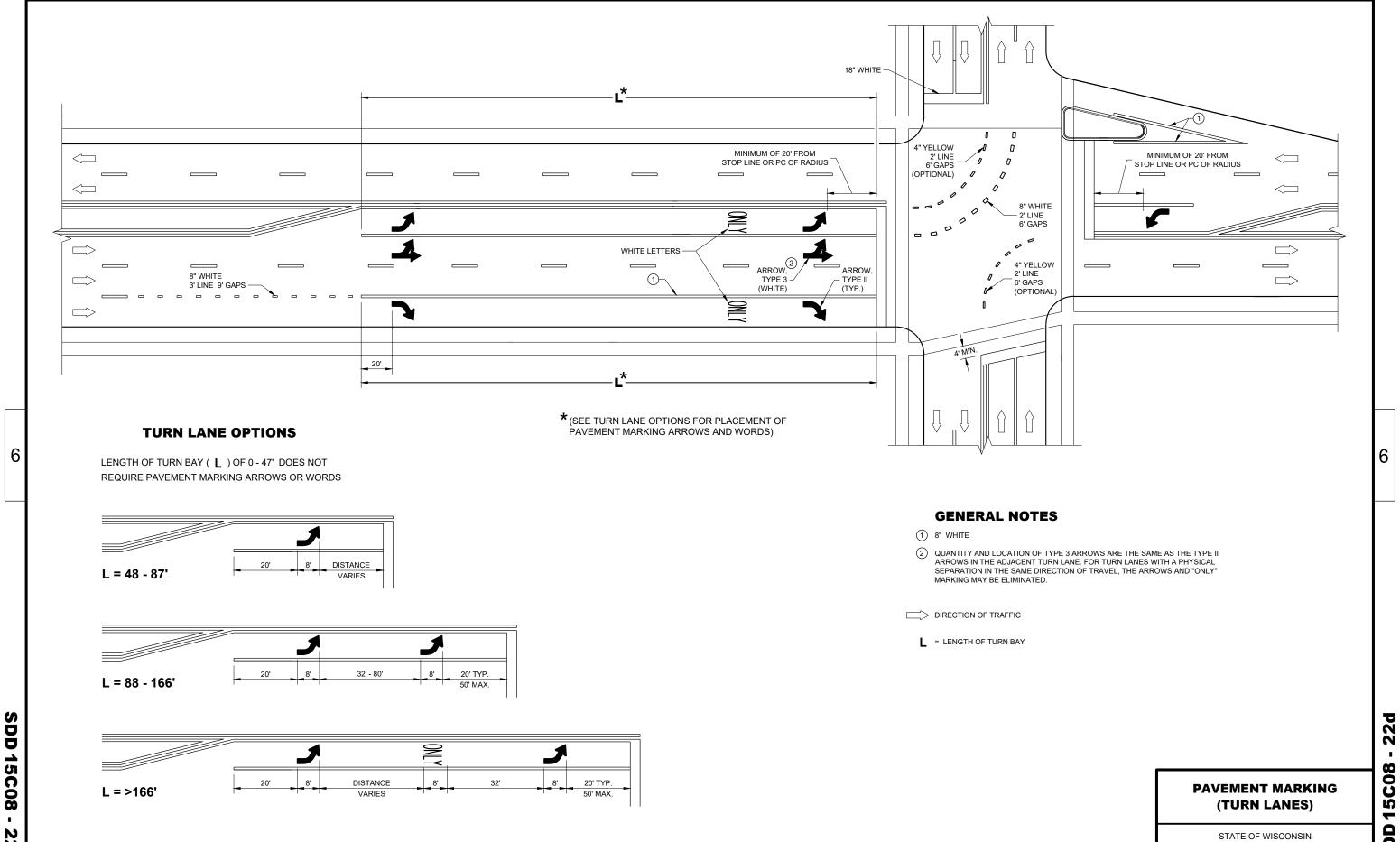
/S/ Jeannie Silver
STATEWIDE SIGNING AND MARKING
ENGINEER

APPROVED

May 2022 DATE

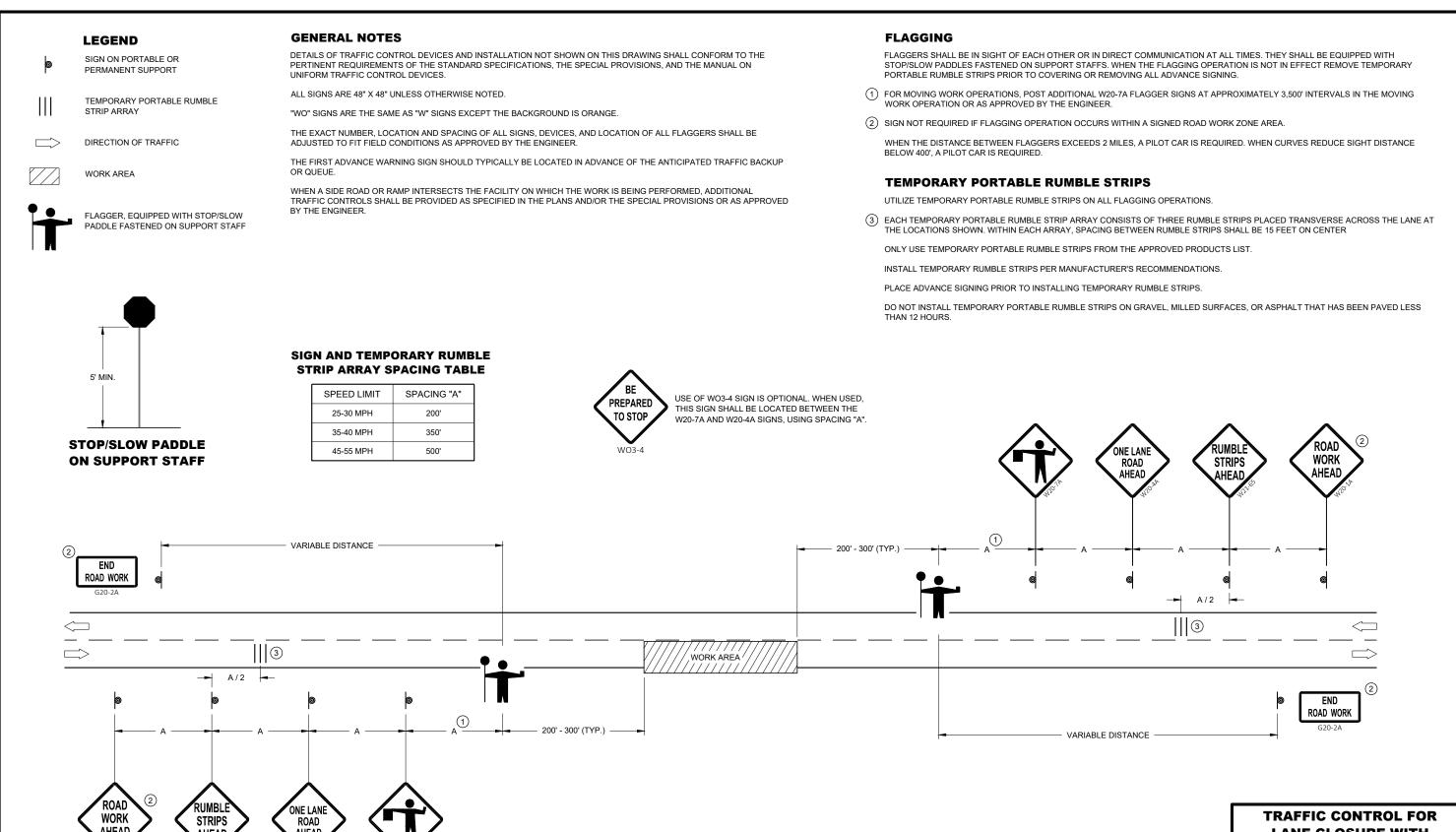
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SDD 15C08

DEPARTMENT OF TRANSPORTATION



LANE CLOSURE WITH **FLAGGING OPERATION** 0

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2022 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER

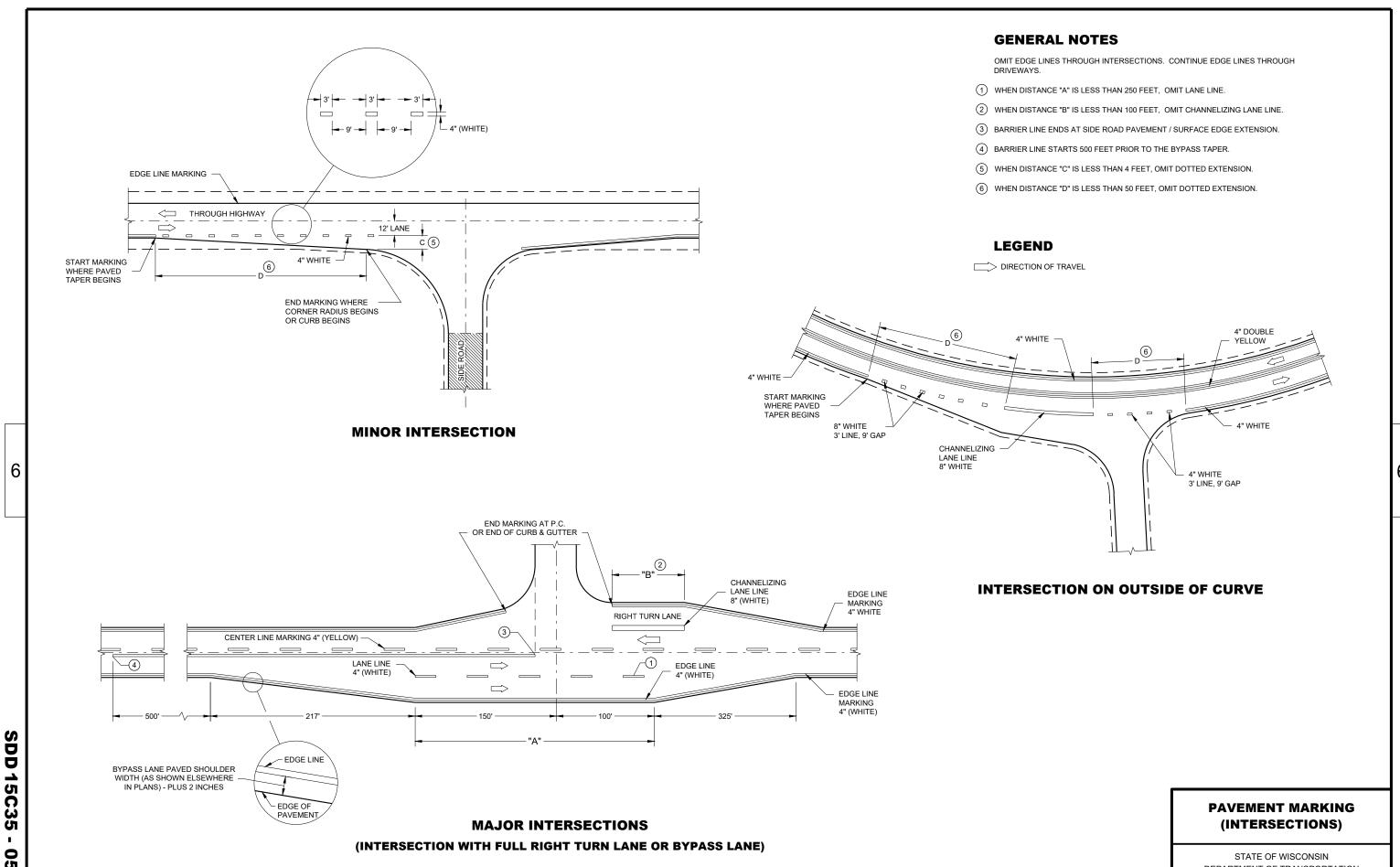
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WORK ZONE ENGINEER



05 **SDD 15C3**

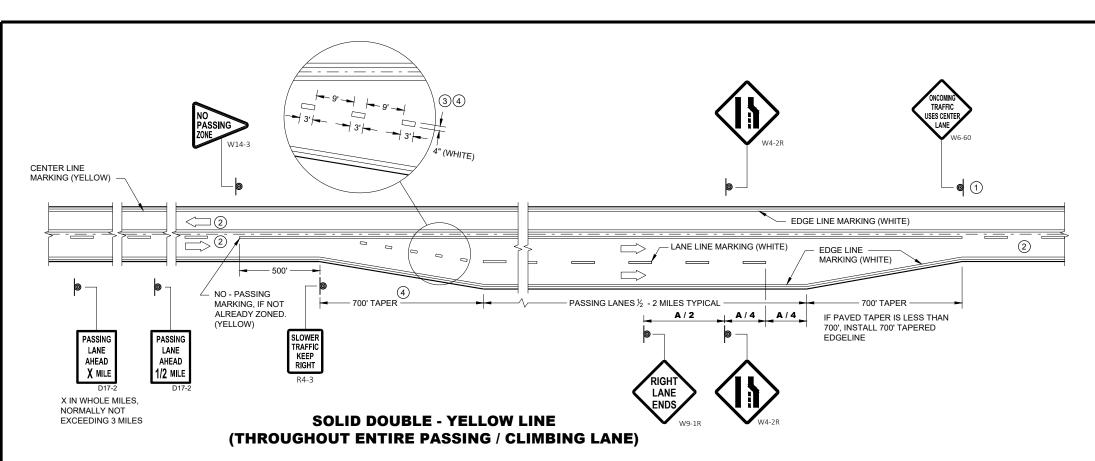
DEPARTMENT OF TRANSPORTATION

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SDD



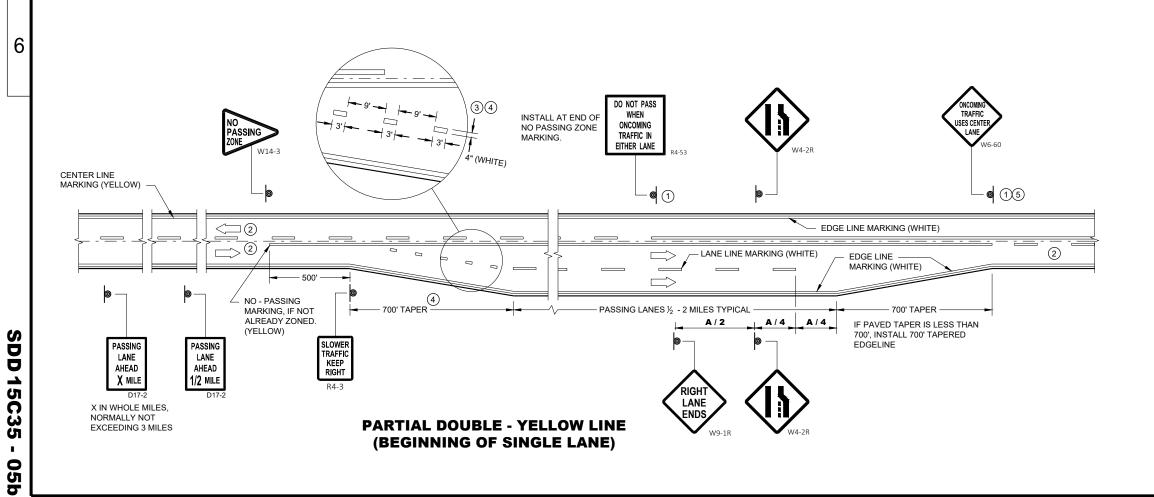
GENERAL NOTES

- \bigodot SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
- 2) THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- 3 THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- 4 WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.
- (5) REPEAT EVERY 1 MILE UP UNTIL R4-53.

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

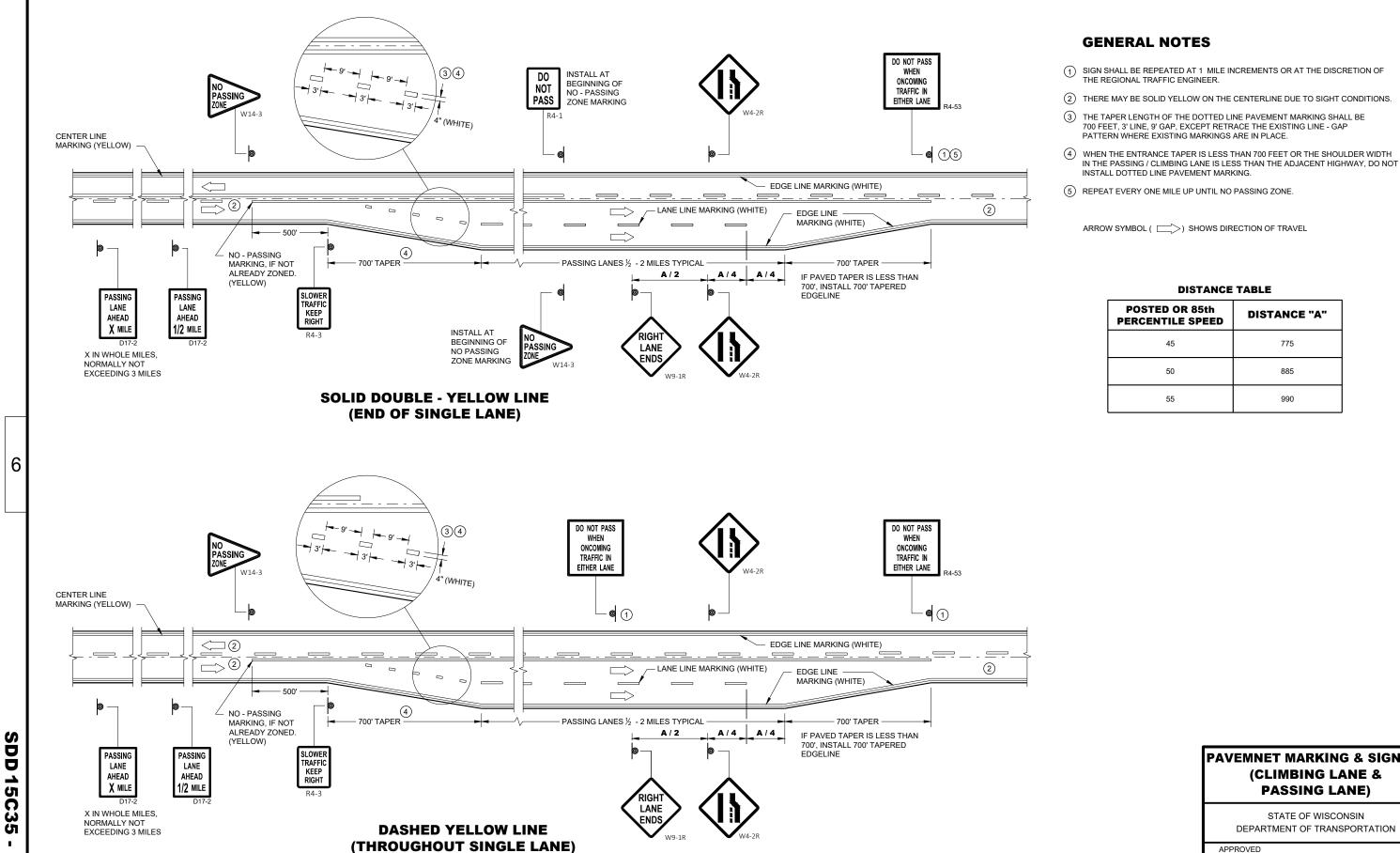
DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"		
45	775		
50	885		
55	990		



PAVEMENT MARKING & SIGNING (CLIMBING LANE & **PASSING LANE)**

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

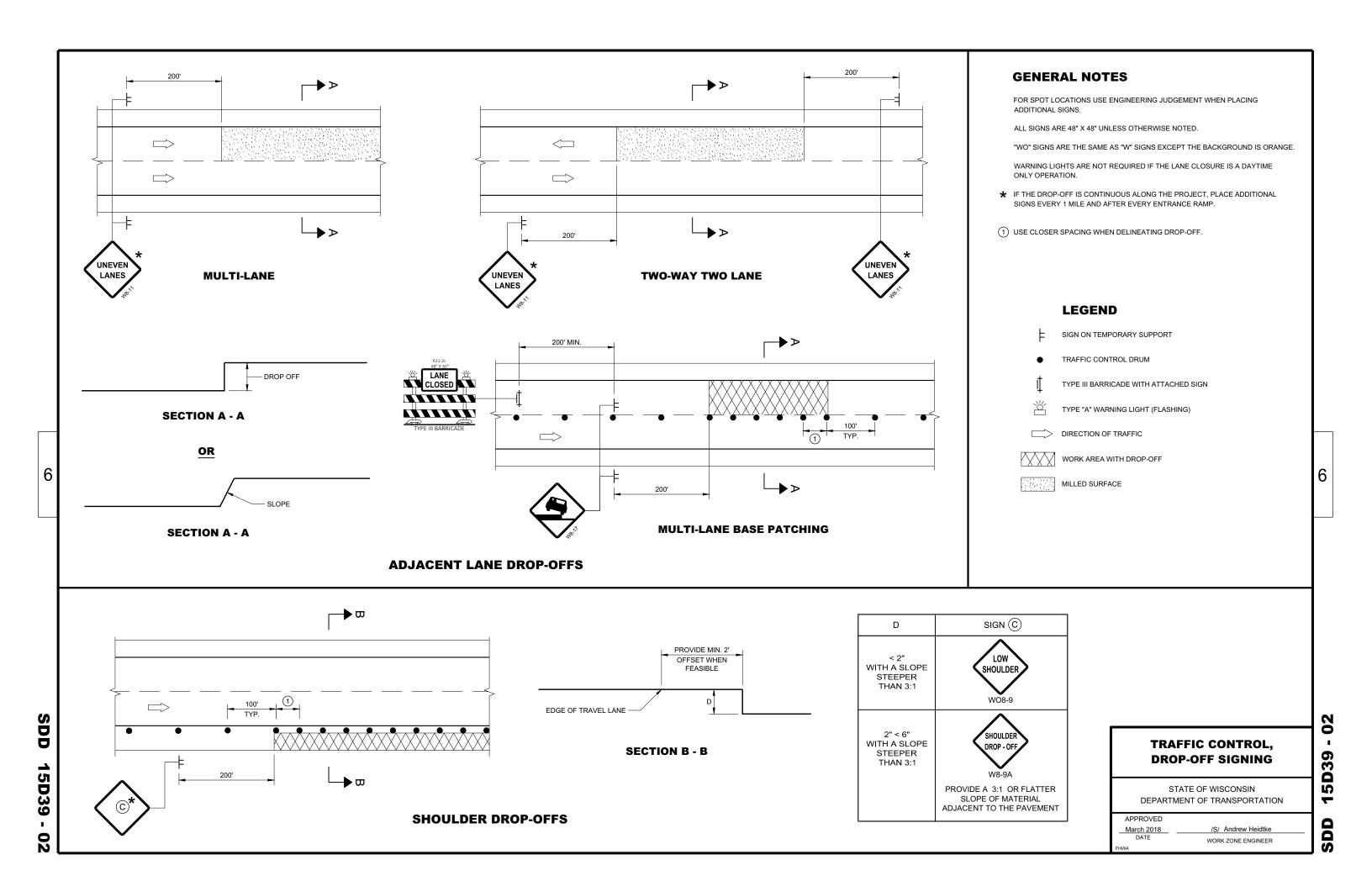


05c

PAVEMNET MARKING & SIGNING (CLIMBING LANE & **PASSING LANE)**

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED /S/ Jeannie Silver
STATE SIGNING AND MARKING
ENGINEER May 2022 DATE



DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

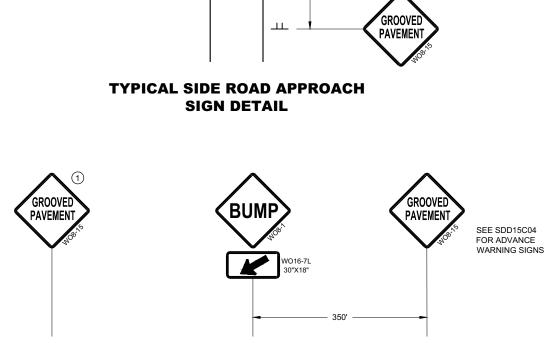
THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE

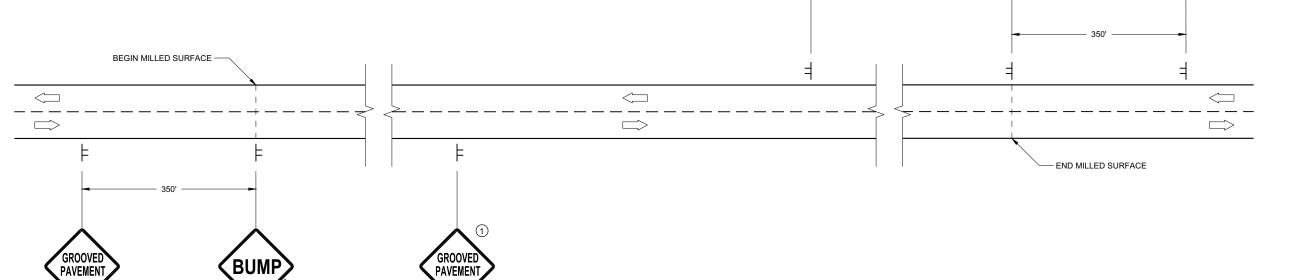
ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

- (1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.
- (2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

DIRECTION OF TRAFFIC





SEE SDD15C04 FOR ADVANCE WARNING SIGNS

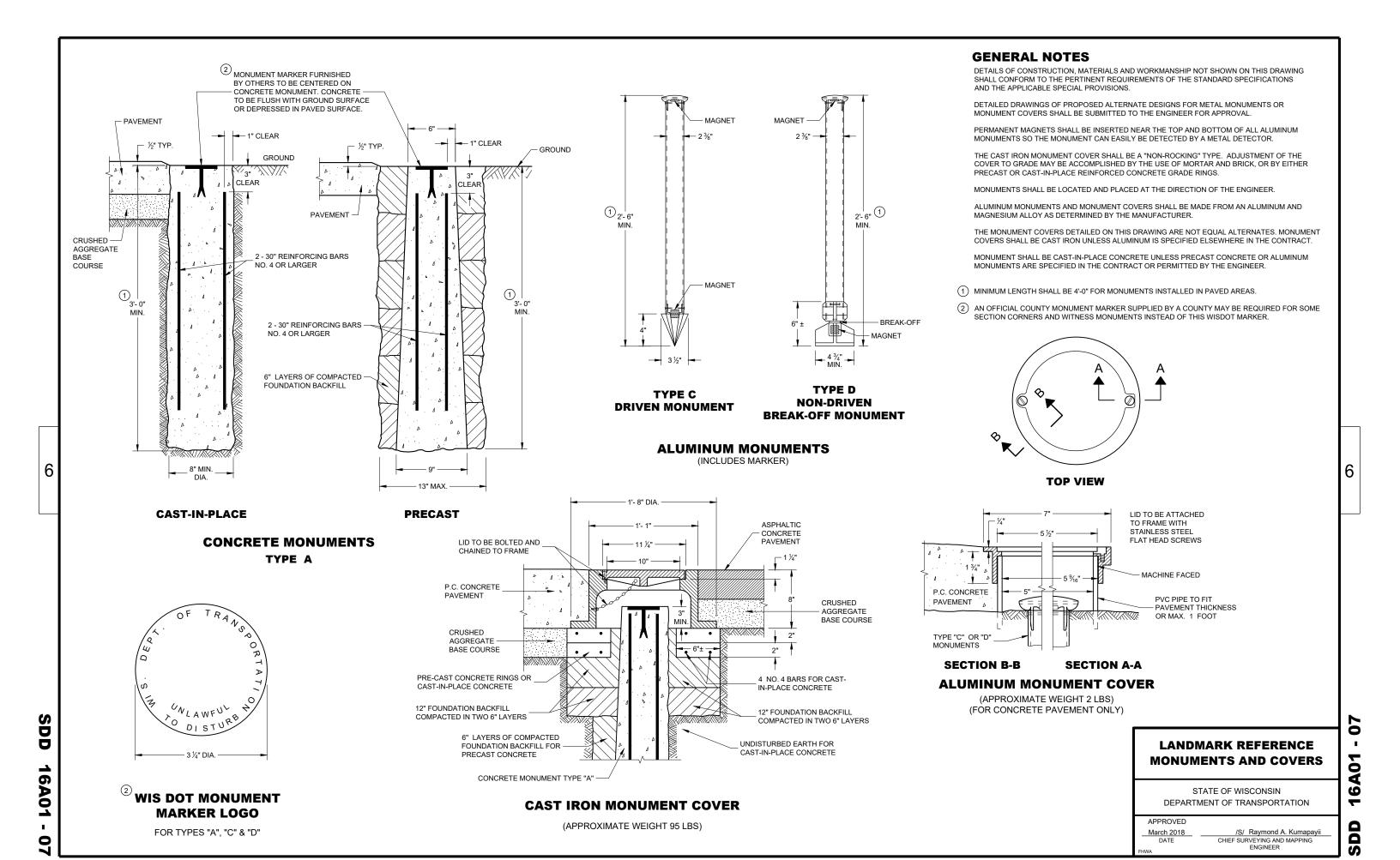
DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, **SIGNING ON ROADWAYS WITH MILLED SURFACES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2020 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER Ò S



Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov