NOVMBER 2022

ORDER OF SHEETS

6395-00-70 TOTAL SHEETS = 36 **DESIGN DESIGNATION** AAD.T. A.A.D.T. D.H.V. D.D. **DESIGN SPEED ADAMS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

T ROME, APACHE AVENUE

10TH AVENUE TO 8TH AVENUE

LOCAL STREET **ADAMS COUNTY**

STATE PROJECT NUMBER

6395-00-70 ROME 31

CONVENTIONAL SYMBOLS

2023

= 35

= 7,300

PLAN		PROFILE	
CORPORATE LIMITS	1111111	GRADE LINE	-
PROPERTY LINE		ORIGINAL GROUND	_^_\
LOT UNE		MARSH OR ROCK PROFILE (To be noted as such)	- ROCK
LIMITED HIGHWAY EASEMENT	L	SPECIAL DITCH	_ LABEL
EXISTING RIGHT OF WAY		65.05.51	35
PROPOSED OR NEW R/W LINE		GRADE ELEVATION	8,0
SLOPE INTERCEPT		CULVERT (Profile View)	0 🗆
REFERENCE LINE	30018.	UTILITIES	
EXISTING CULVERT		ELECTRIC	ξ
		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)	─	GAS	— с —
COMPLETINE FUNDS	M	SANITARY SEWER	SAN
COMBUSTIBLE FLUIDS	-carrion-	STORM SEWER	22
	71.	TELEPHONE	T
MARSH AREA	(177)	WATER	—— w ——
		UTILITY PEDESTAL	×
	·	POWER POLE	d
WOODED OR SHRUB AREA	<i>(</i>	TELEPHONE POLE	Ø

FILE NAME: G:\CURRENT FILES R-Z\ROME, TOWN DF\2022 MUNICIPAL ENGINEERING SERVICES\2-0522-298 APACHE AVE ROAD PROJECT\63950070\5HEETS\010100-TI.DWG

BLACKHAWK TOTAL NET LENGTH OF CENTERLINE = 2 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), ADAMS NAD83 (2011), IN U.S. SURVEY FEET, POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES

ELEVATIONS ARE REFERENCED TO NAVO 88 (2012), GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12B

8/29/2022 2:46 PM

SCOTT RICHARDSON

ACCEPTED FOR TOWN OF ROME 8/29/22 Broch Martins. ORIGINAL PLANS PREPARED BY BOETTCHER E-34916 08 28/22 STATE OF WISCONSIN

FEDERAL PROJECT

CONTRACT

PROJECT

WISC 2023048

STATE PROJECT

6395-00-70

REPARED BY

GENERAL ENGINEERING COMPANY **BRADLEY SOUTTCHER**

DEPARTMENT OF TRANSPORTATION

9/15/2022

END PROJECT

STA 405+42,54

BEGIN PROJECT

STA 300+80

- 1. CONTRACT DOCUMENTS SHALL BE ISSUED TO ALL SUBCONTRACTORS BY THE GENERAL CONTRACTOR IN COMPLETE SETS IN ORDER TO ACHIEVE THE FULL EXTENT AND COMPLETE COORDINATION OF ALL WORK.
- 2. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- 3. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- 4. DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED THROUGHOUT THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO DETAILS SHOWN, WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, NOTIFY ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 5. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED AND CONDITIONED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. INCASE OF DISCREPANCIES BETWEEN MANUFACTURERS' INSTRUCTIONS AND THE CONTRACT DOCUMENTS, NOTIFY ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 6. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
- 7. THE CONTRACTOR IS TO CONTACT "DIGGERS HOTLINE" FOR UTILITY LOCATIONS, MINIMUM 3 BUSINESS DAYS PRIOR TO ANY EXCAVATION / CONSTRUCTION (811 OR 1-800-242-8511).
- 8. ALL RADII ARE MEASURED TO EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN OR NOTED ON THE PLAN.
- 9. TYPICAL SECTIONS SHOW THE GENERAL FEATURES THROUGHOUT THE PROJECT, PAVEMENT SLOPES, FORESLOPES, ETC., MAY VARY WITHIN THE LIMITS OF THE SECTION
- 10. WHEN PORTIONS OF EXISTING ASPHALT SURFACES ARE TO BE REMOVED TO ACCOMMODATE NEW CONSTRUCTION, THE LINE OF SUCH REMOVAL SHALL BE NEATLY DELINEATED WITH A SAW CUT JOINT THROUGH THE ASPHALTIC SURFACE SO THAT REMOVAL OF THE ASPHALT SHALL BE ACCOMPLISHED WITHOUT DAMAGE TO REMAINING PORTIONS. THE LOCATION OF SAW JOINTS AND THE AMOUNT REMOVED WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 11. CROSS SLOPES AS SHOWN ON THE TYPICAL SECTION WILL VARY AT THE INTERSECTIONS.
- 12. HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.

ORDER OF SECTION 2 SHEETS

-PROJECT OVERVIEW -TYPICAL SECTIONS -CONSTRUCTION DETAILS -PLAN DETAILS -TRAFFIC CONTROL PLAN -CONSTRUCTION STAGING -ALIGNMENT

FILE NAME

STANDARD ABBREVIATIONS

ABUT ABUTMENT
AP ACCESS POINT
AR ACCESS RIGHTS
AC ACRE
AGG AGGREGATE

AADT ANNUAL AVERAGE DAILY TRAFFIC

ASPH ASPHALTIC

APM ASPHALTIC PLANT MIX

AVG AVERAGE
BK BACK
BF BACK FACE
BM BENCH MARK

CB CATCH BASIN CL OR C/L CENTER LINE

CE COMMERCIAL ENTRANCE
CONC CONCRETE

CB# CONTROL BASE
CO COUNTY

CTH COUNTY TRUNK HIGHWAY

CR CREEK

CABC CRUSHED AGGREGATE BASE COURSE

CUBIC YARD CY CULVERT CULV DIAMETER DIA DWY DRIVEWAY EB **EASTBOUND** ELEC ELECTRIC (AL) EL **ELEVATION** EW **ENDWALL**

EXIST EXISTING
FE FIELD ENTRANCE
HYD HYDRANT

INL INLET

ID INSIDE DIAMETER
INV INVERT
IP IRON PIPE OR PIN

LF LINEAR FOOT
MH MANHOLE
MP MARKER POST
ML MATCH LINE
NOM NOMINAL
NB NORTHBOUND

NO NUMBER
OL OUT LOT
OD OUTSIDE DIAMETER

PAVT PAVEMENT PT POINT

PC POINT OF CURVATURE
PI POINT OF INTERSECTION

PT

LB

POINT OF TANGENCY POUND

PSI POUNDS PER SQUARE INCH PE PRIVATE ENTRANCE

PROPERTY LINE PL **RADIUS** R/W RIGHT-OF-WAY RD ROAD RDWY ROADWAY SANITARY SEWER SAN S SHLDR SHOULDER SW **SIDEWALK** SB SOUTHBOUND SQ SQUARE

STD STANDARD
STH STATE TRUNK HIGHWAYS

STA STATION SS STORM SEWER TEL TELEPHONE TEMP **TEMPORARY** TOP OF CURB TC TYP TYPICAL UG UNDERGROUND WM WM WATER MAIN WV WATER VALVE

ENGINEER

GAS

WE ENERGIES

GENERAL ENGINEERING COMPANY
BRADLEY BOETTCHER
916 SILVER LAKE DRIVE
PORTAGE, WI 53901
PHONE: 608-742-2169

EMAIL: BBOETTCHER@GENERALENGINEERING.NET

ELECTRIC

OWNER TOWN OF ROME

1156 ALPINE DRIVE

NEKOSSA, WI 54457

PHONE: 715-325-8022

EMAIL: REUTEMAN@ROMEWI.COM

ADAMS-COLUMBIA ELECTRIC COOP
OVERHEAD ELECTRIC
ATTN: MARK LAMORE
401 E LAKE STREET
FRIENDSHIP, WI 53934
PHONE: 800-831-8629

EMAIL: MLAMORE@ACECWI.COM

WATER

ROME WATER UTILITY
ATTN: CHAD ZIEGLER
299 LEISURE LANE
NEKOOSA, WI 54457
PHONE: 715-325-2600
EMAIL: RWSUP0926@GMAIL.COM

COMMUNICATION

TOWN CONTACT

1156 ALPINE DRIVE

NEKOSSA, WI 54457

ATTN: TRAVIS KAHL

PHONE: 715-421-7256

1921 8TH STREET

PHONE: 715-325-8017

TOWN OF ROME PUBLIC WORKS

EMAIL: MARTINSON@ROMEWI.COM

ATTN: BRAD MARTINSON

SOLARUS INTERNET
440 EAST GRAND AVENUE
WISCONSIN RAPIDS, WI 54494-8045
PHONE: 715-421-8111

EMAIL: PIERCE@SOLARUS.NET

WISCONSIN RAPIDS. WI 54494

EMAIL: TRAVIS.KAHL@WE-ENERGIES.COM

DNR CONTACT

WISCONSIN DEPARTMENT OF NATURAL RESOURCES BRADLEY BETTHAUSER 910 HWY 54E BLACK RIVER FALLS, WI 54615 PHONE: 715-213-9064

EMAIL: BRADLEYBETTHAUSER@WISCONSIN.GOV

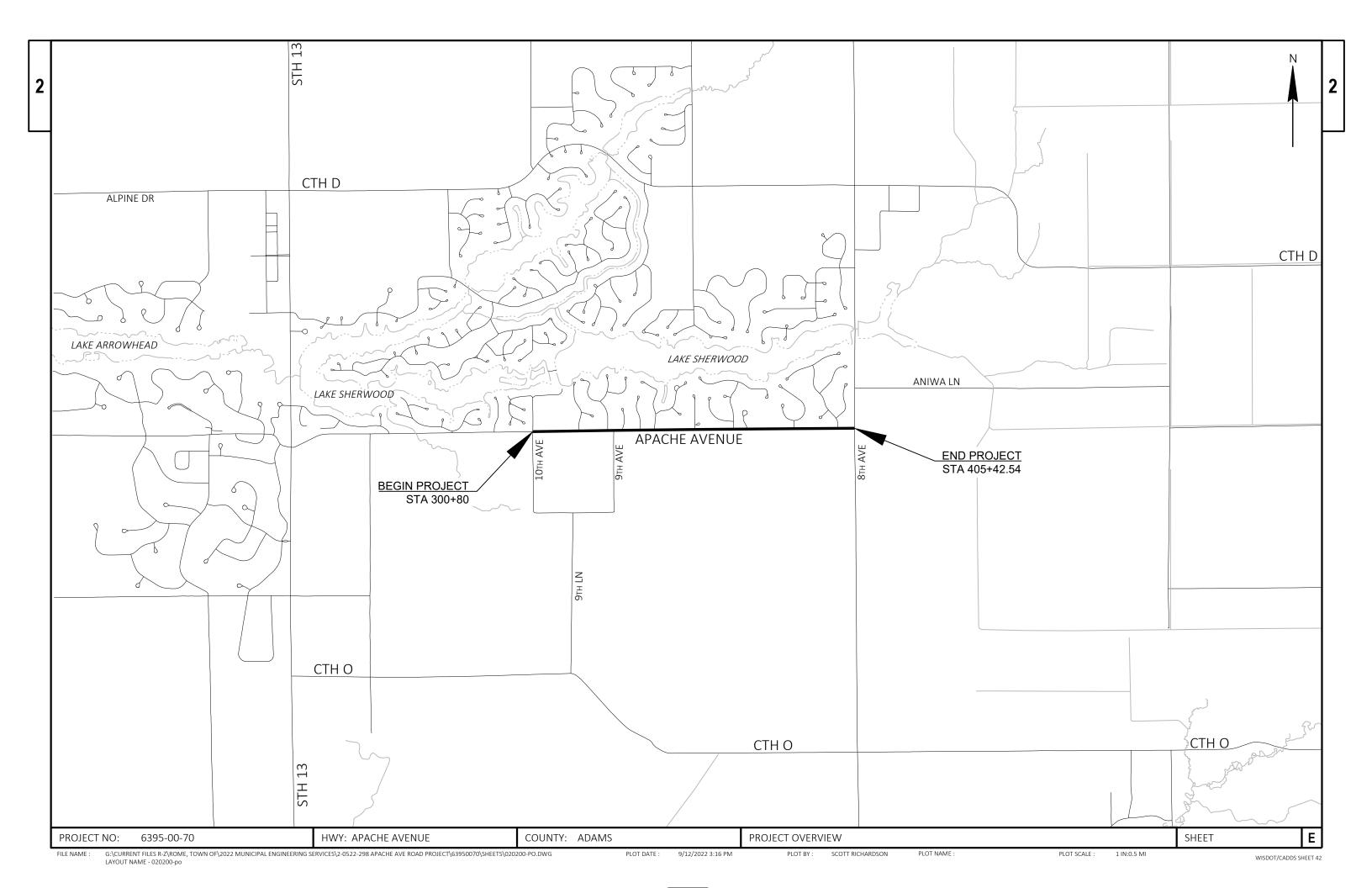


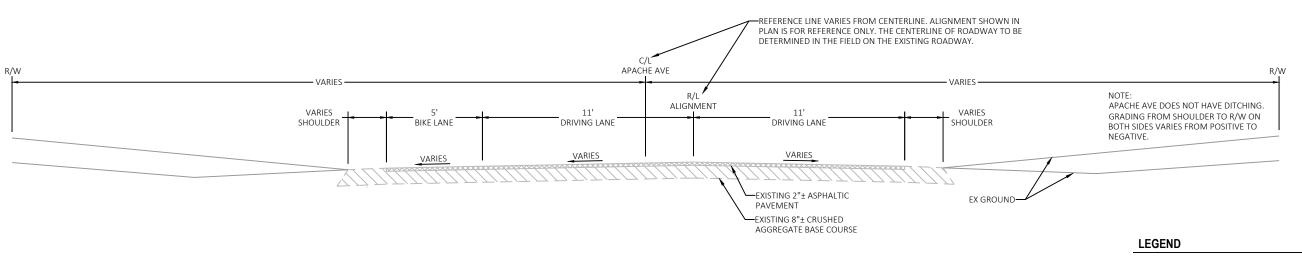
www.DiggersHotline.com

PROJECT NO: 6395-00-70 HWY: APACHE AVENUE COUNTY: ADAMS GENERAL NOTES SHEET **E**

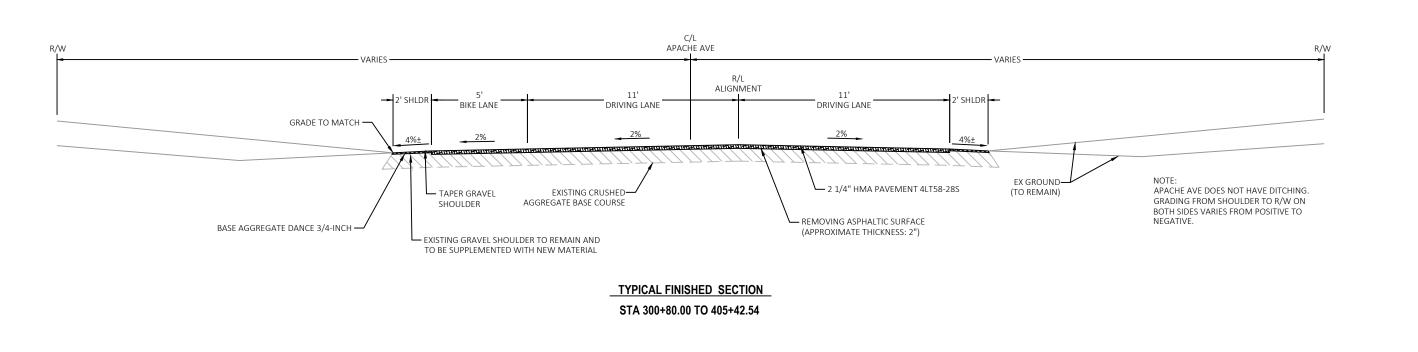
SCOTT RICHARDSON

1 IN:10 FT

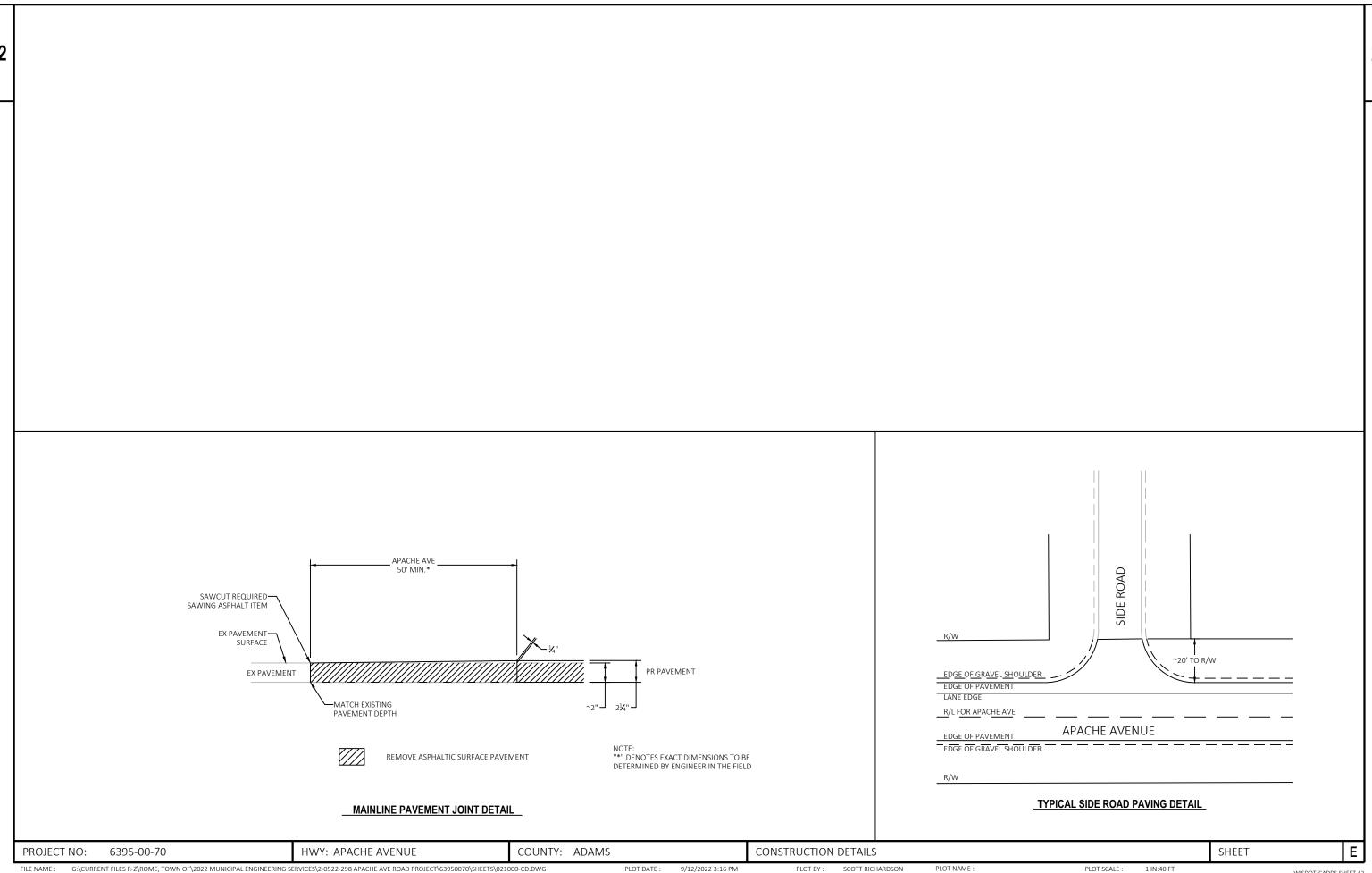








Ε PROJECT NO: 6395-00-70 HWY: APACHE AVENUE COUNTY: ADAMS TYPICAL SECTIONS SHEET G:\CURRENT FILES R-Z\ROME, TOWN OF\2022 MUNICIPAL ENGINEERING SERVICES\2-0522-298 APACHE AVE ROAD PROJECT\63950070\SHEETS\020300-TS.DWG SCOTT RICHARDSON PLOT SCALE : FILE NAME : 9/12/2022 3:16 PM PLOT NAME : 1 IN:5 FT

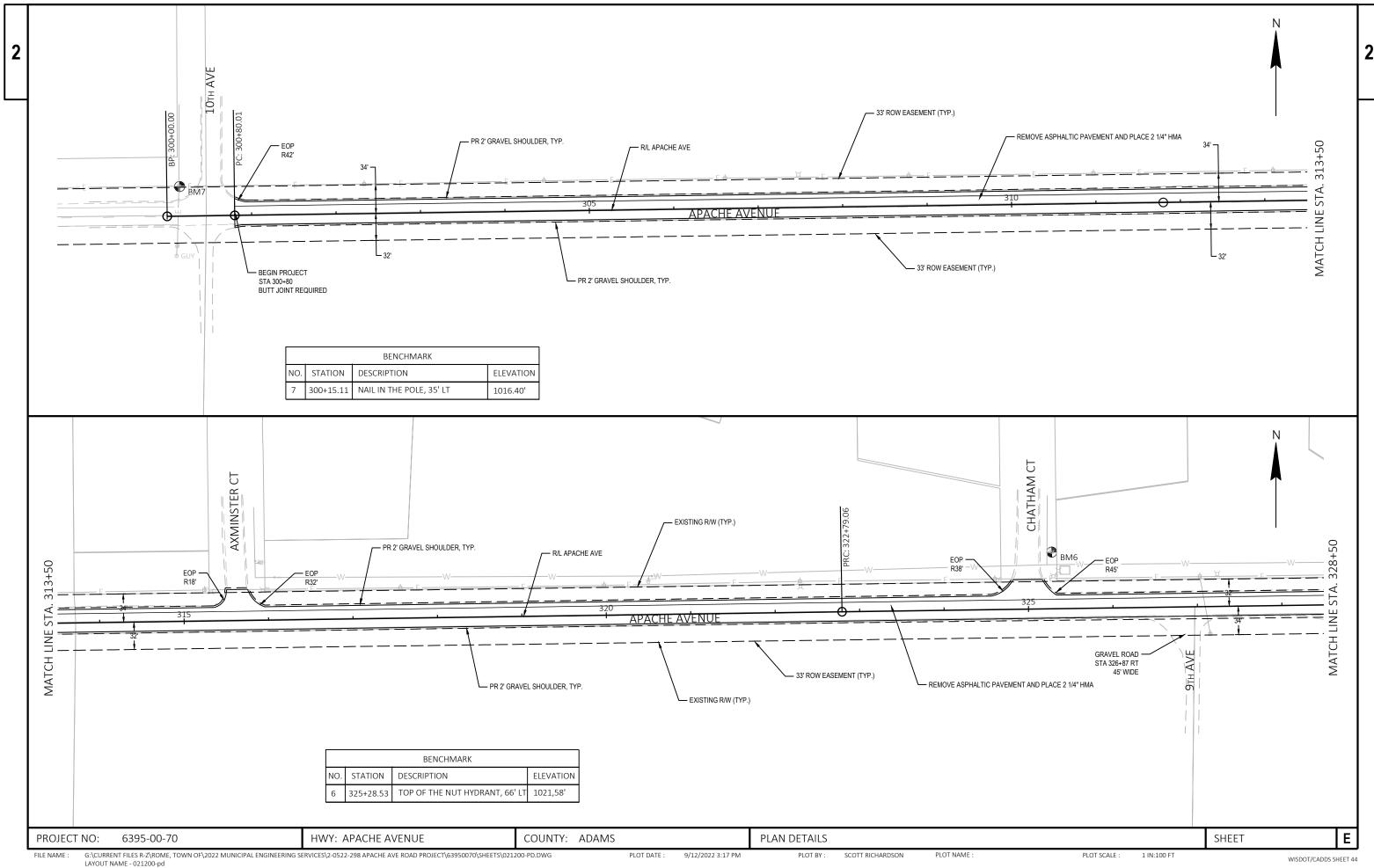


G:\CURRENT FILES R-Z\ROME, TOWN OF\2022 MUNICIPAL ENGINEERING SERVICES\2-0522-298 APACHE AVE ROAD PROJECT\63950070\SHEETS\021000-CD.DWG LAYOUT NAME - 021000-cd

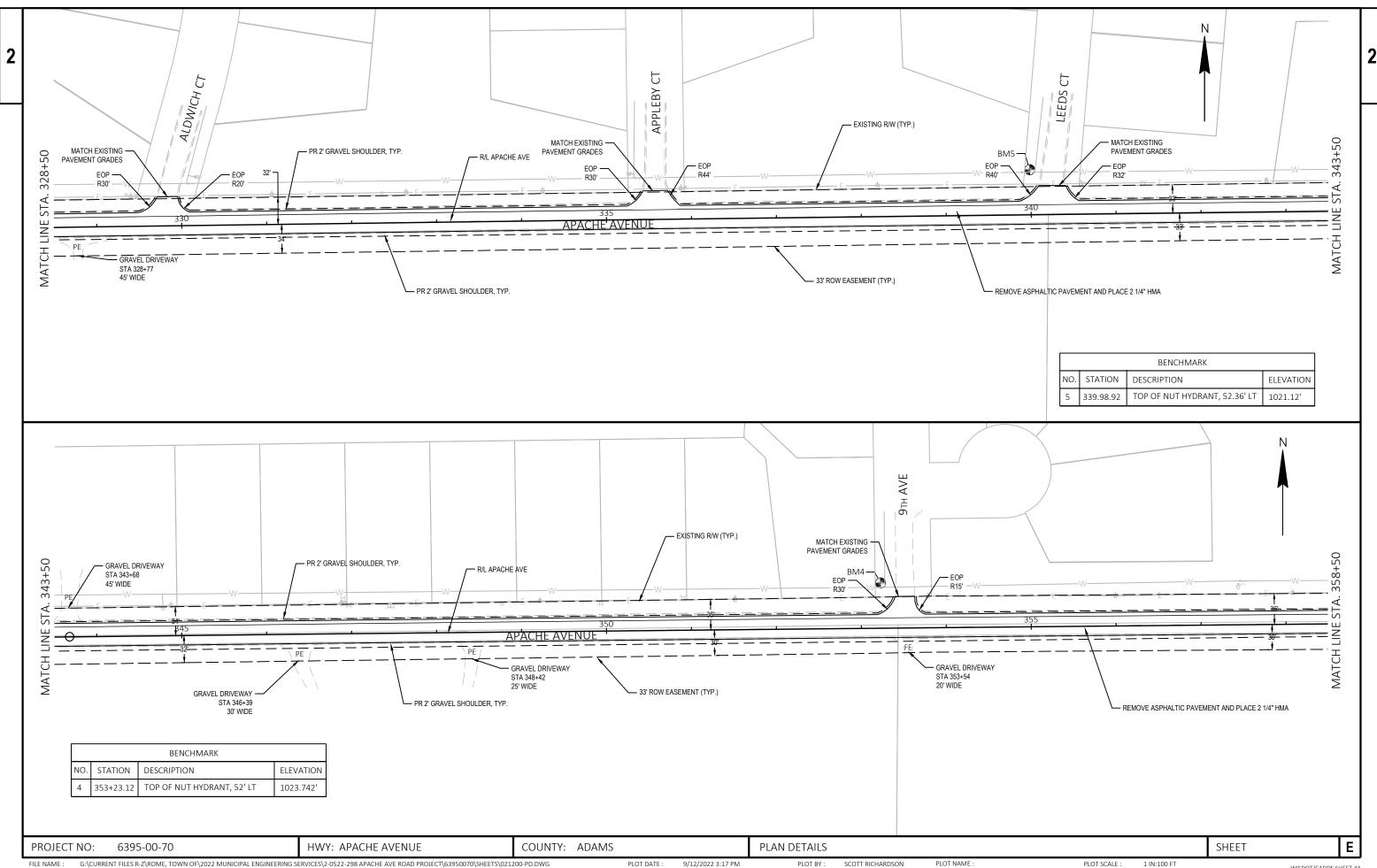
PLOT DATE : 9/12/2022 3:16 PM

PLOT NAME :

PLOT SCALE :



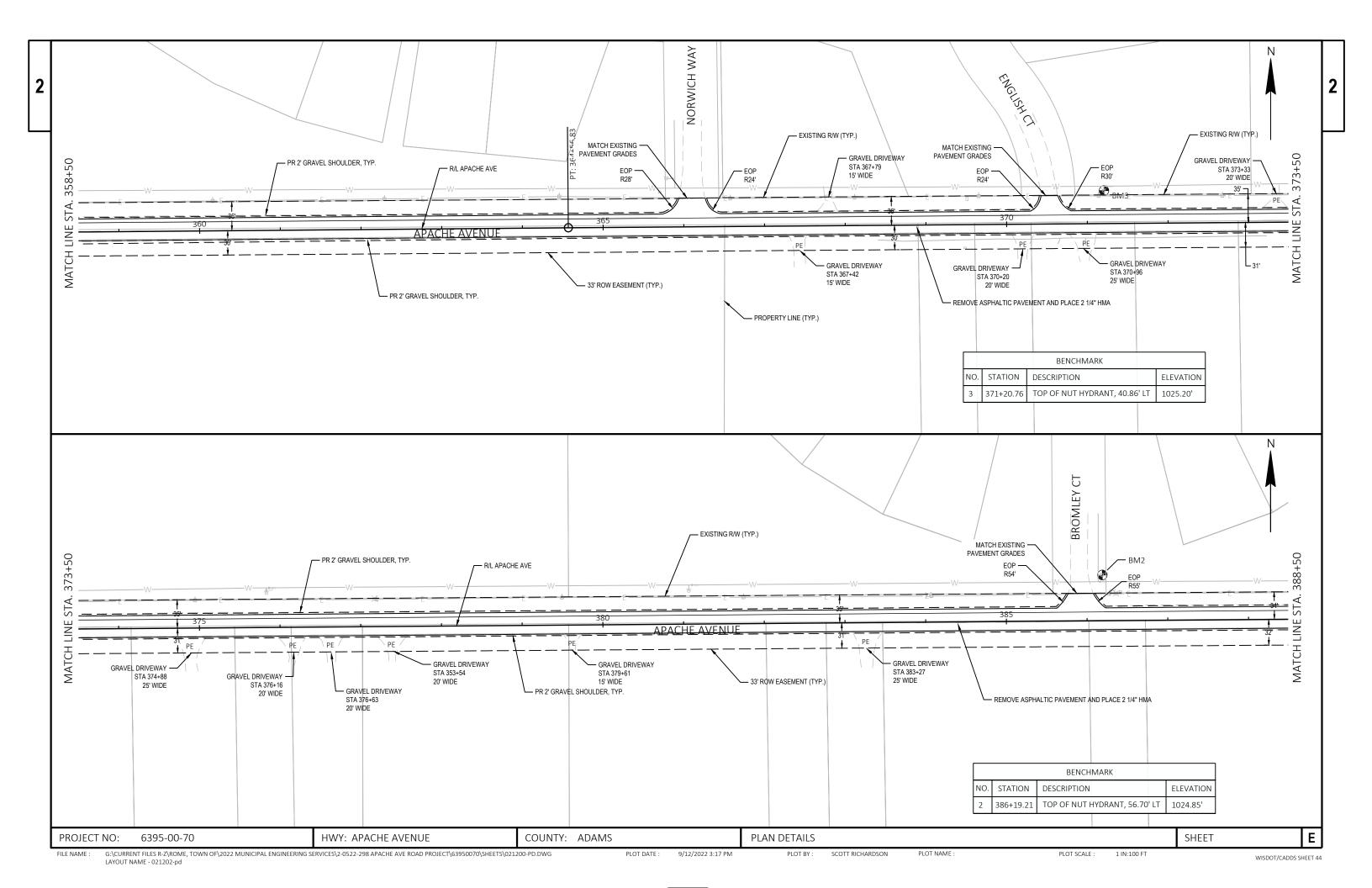
WISDOT/CADDS SHEET 44

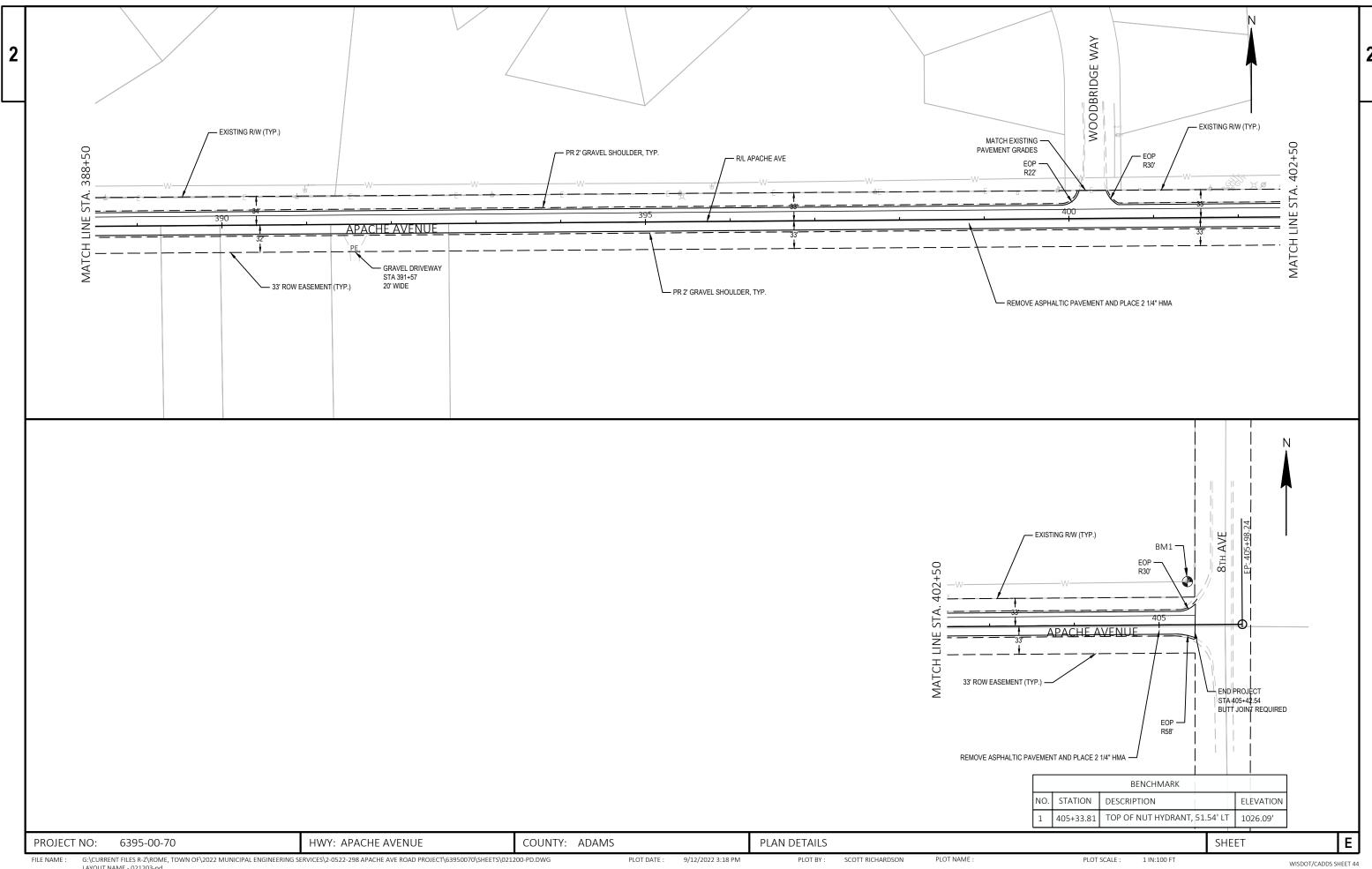


LAYOUT NAME - 021201-pd

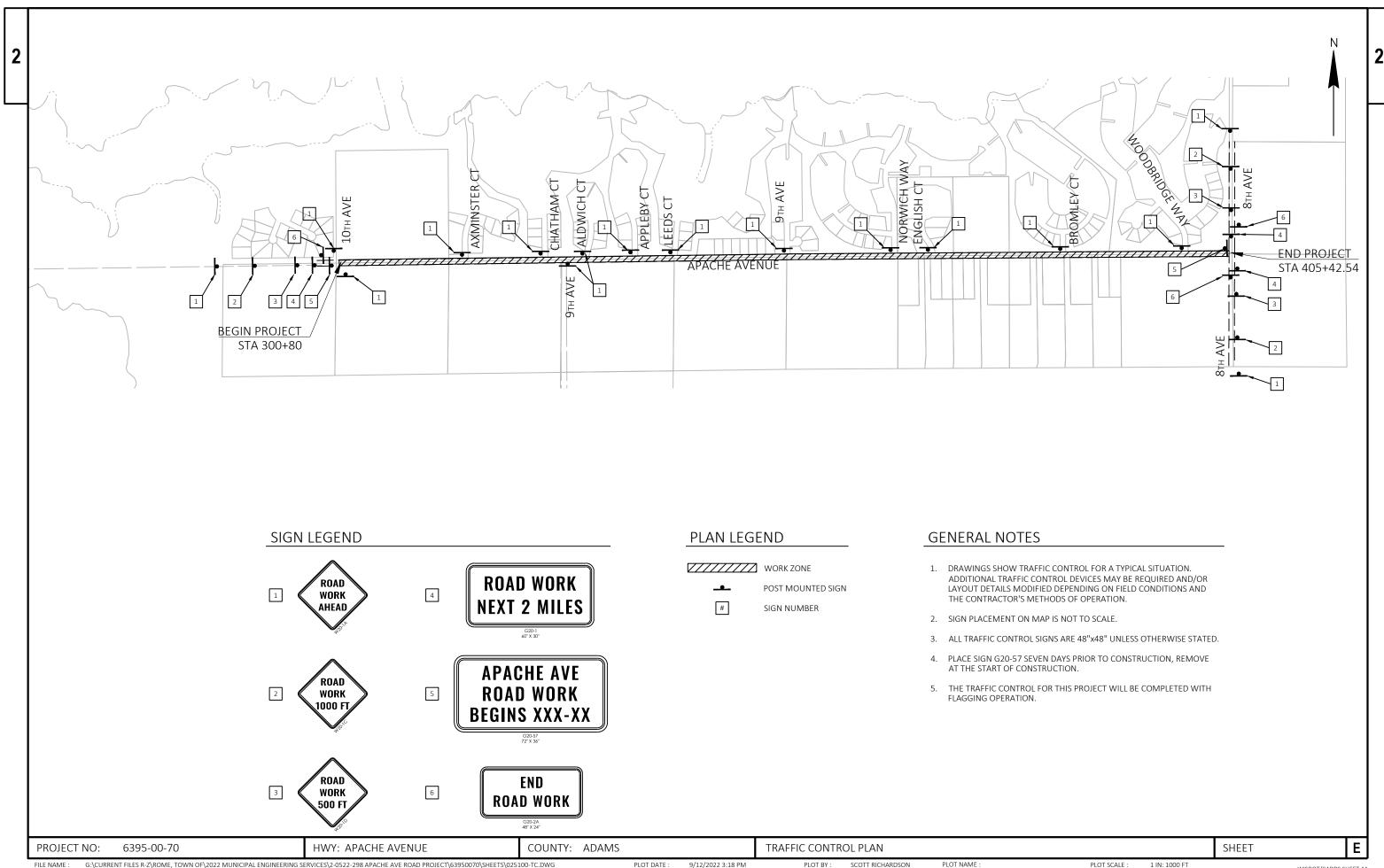
PLOT SCALE :

WISDOT/CADDS SHEET 44





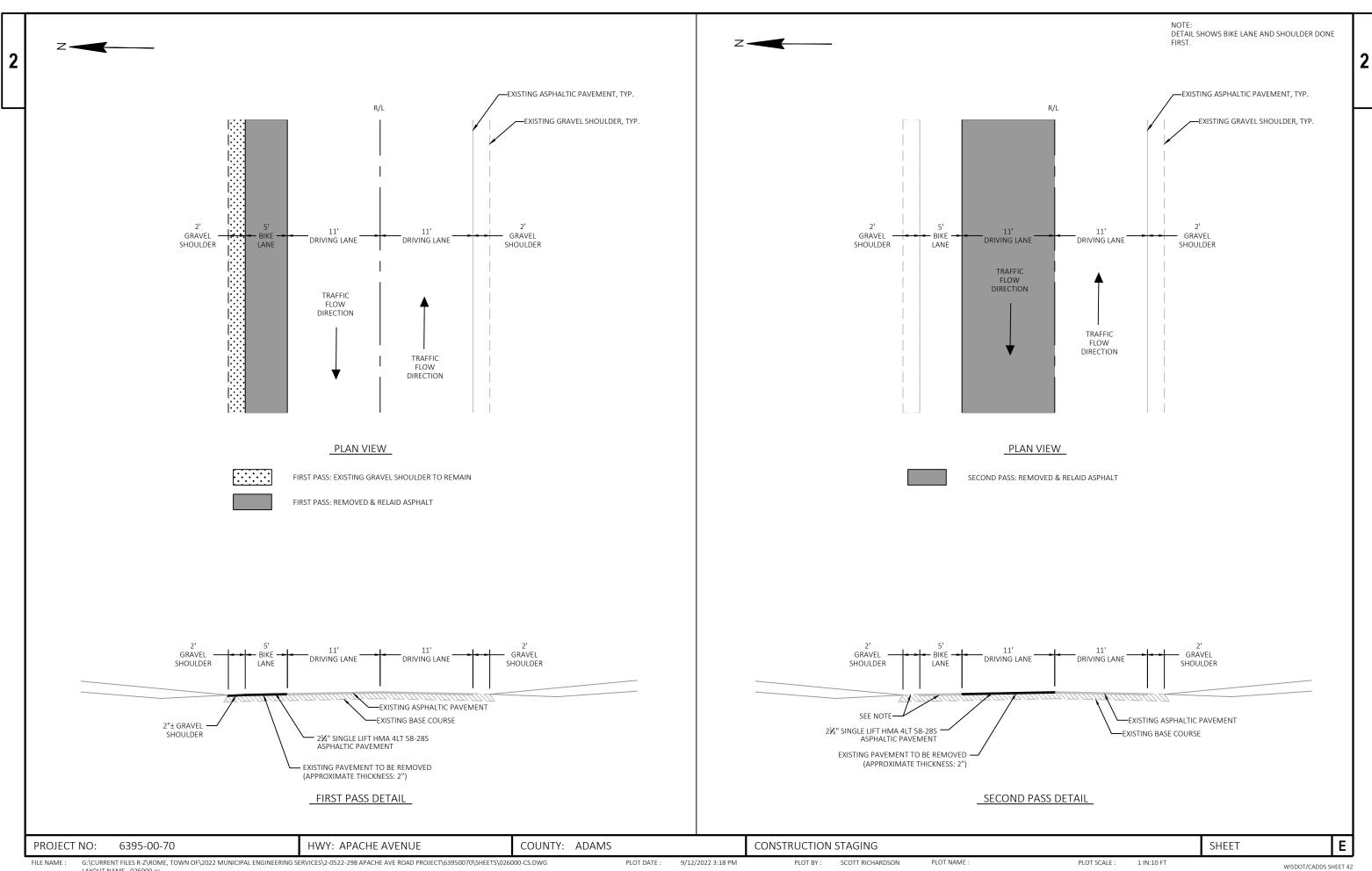
LAYOUT NAME - 021203-pd

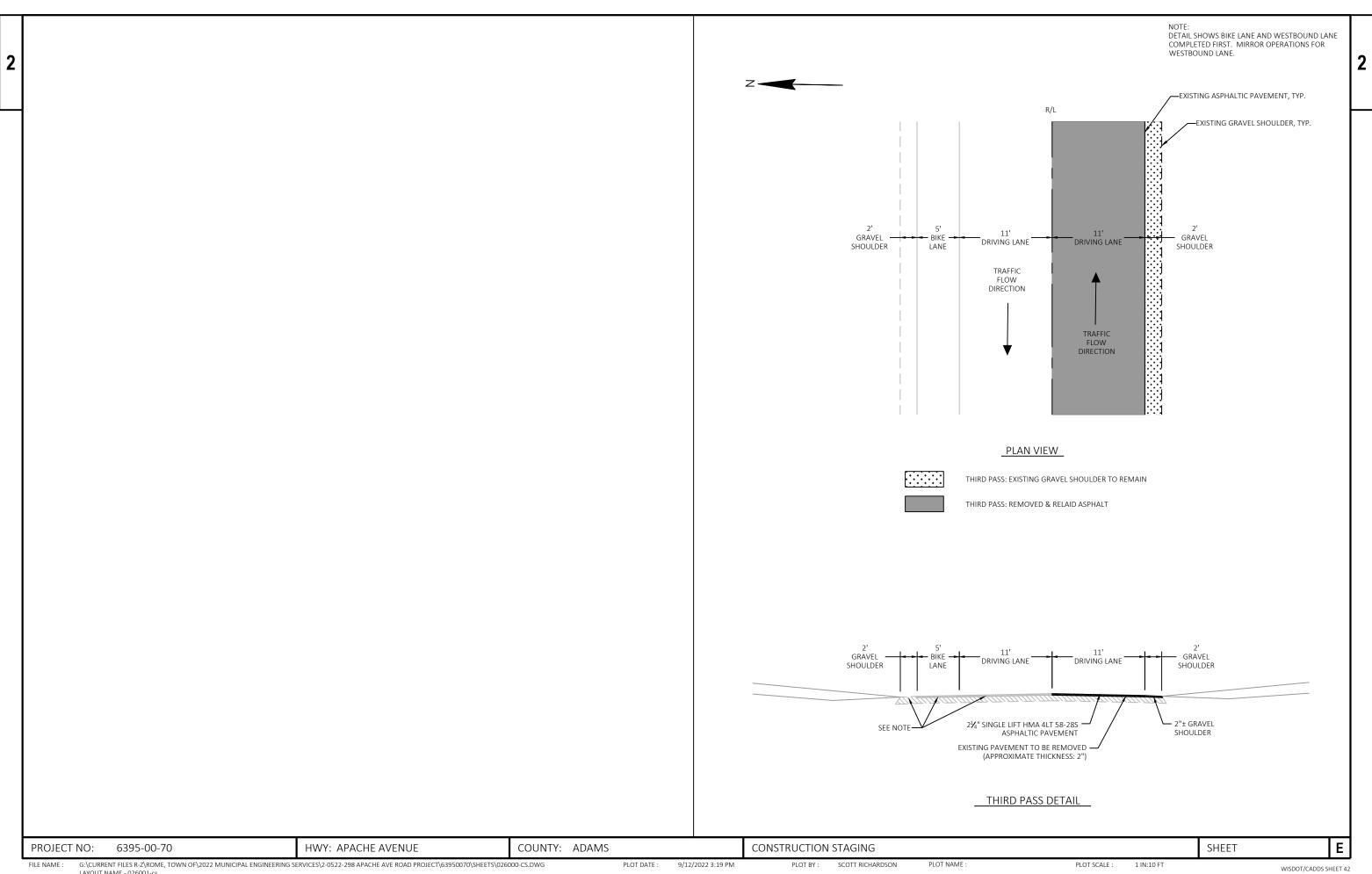


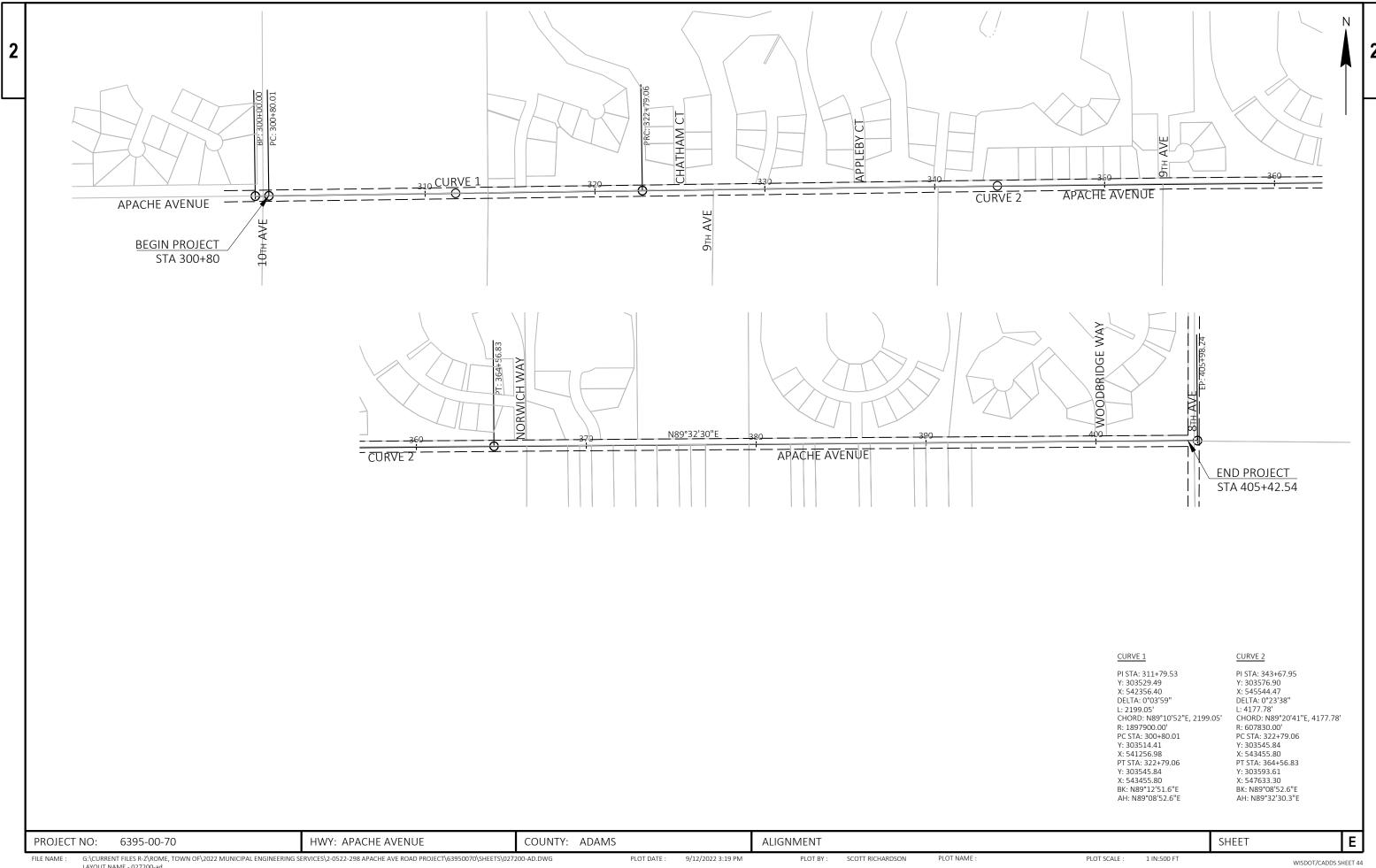
LAYOUT NAME - 025100-tc

PLOT BY:

PLOT SCALE :







LAYOUT NAME - 027200-ad

6395-00-70

Line	Item	Item Description	Unit	Total	Qty
0002	204.0110	Removing Asphaltic Surface	SY	32,210.000	32,210.000
0004	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 6395-00-70	EACH	1.000	1.000
0006	213.0100	Finishing Roadway (project) 01. 6395-00-70	EACH	1.000	1.000
8000	305.0110	Base Aggregate Dense 3/4-Inch	TON	270.000	270.000
0010	460.2000	Incentive Density HMA Pavement	DOL	4,520.000	4,520.000
0012	460.5224	HMA Pavement 4 LT 58-28 S	TON	4,590.000	4,590.000
0014	618.0100	Maintenance And Repair of Haul Roads (project) 01. 6395-00-70	EACH	1.000	1.000
0016	619.1000	Mobilization	EACH	1.000	1.000
0018	624.0100	Water	MGAL	30.000	30.000
0020	642.5001	Field Office Type B	EACH	1.000	1.000
0022	643.0900	Traffic Control Signs	DAY	260.000	260.000
0024	643.1000	Traffic Control Signs Fixed Message	SF	36.000	36.000
0026	643.5000	Traffic Control	EACH	1.000	1.000
0028	646.1020	Marking Line Epoxy 4-Inch	LF	31,265.000	31,265.000
0030	646.6120	Marking Stop Line Epoxy 18-Inch	LF	150.000	150.000
0032	650.8000	Construction Staking Resurfacing Reference	LF	10,470.000	10,470.000
0034	650.9911	Construction Staking Supplemental Control (project) 01. 6395-00-70	EACH	1.000	1.000
0036	690.0150	Sawing Asphalt	LF	354.000	354.000
0038	740.0440	Incentive IRI Ride	DOL	8,740.000	8,740.000
0040	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0042	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000

3)
---	---

			STATION	TO	STATION		LOCATION	DENSE 3/4-INCH TON	H WATER (1 MGAL		REMARKS
			300+80	-	405+42.54	P	ROJECT 6395-00-70 SIDEROADS DRIVEWAYS	160 20 90	7 3		10 PAVED SIDEROADS 12 GRAVEL DRIVEWAY
							TOTAL 0010	270	10		
						(1) ADDITIONA	L QUANTITIES LISTED EL	SEWHERE.			
			STATION	TO	STATION		LOCATION	460.5224 HMA PAVEMENT 4 LT 58-28 S TON		REMARKS	
			300+80	- - -	405+42.54	PRI	MAINLINE SIDEROADS DJECT 6395-00-70	4,340 250		PAVEMENT	
				-			TOTAL 0010	4,590			
						204.0110	211.0101.01 PREPARE FOUNDATION	624.0100	690.0150		
STATION	TO	STATION		LOCATIO	NC	REMOVING ASPHALTIC SURFACE SY	FOR ASPHALTIC PAVING 6395- 00-70 EACH	WATER (1) MGAL	SAWING ASPHALT LF		REMARKS
300+80 300+80	=	405+42.54		MAINLII BEGIN PRO		32,210		20	74		
	_	405+42.54		END PRO. SIDE ROA PROJECT 639	IECT ADS		1		280		
				TOTAL 00	D10	32,210	1	20	354	-	
			(1) ADDITIONA	AL QUANTITIE	S LISTED ELSEWHE	ERE.					

PROJECT NO: 6395-00-70

FILE NAME: G:\CURRENT FILES R-Z\ROME, TOWN OF\2022 MUNICIPAL ENGINEERING SERVICES\2-0522-298 APACHE AVE ROAD PROJECT\63950070\SHEETS\030200-MQ.DWG LAYOUT NAME - 030200-mq

HWY: APACHE AVENUE

COUNTY: ADAMS

PLOT BY: SCOTT RICHARDSON

MISCELLANEOUS QUANTITIES

PLOT NAME :

305.0110 624.0100

BASE AGGREGATE

PLOT SCALE : 1" = 1'

SHEET

E

ı	
ı	3

LOCATION	643.0900 TRAFFIC CONTROL SIGN: DAY	TRA CONTR S FIXED I	AFFIC OL SIGNS	643.5000 TRAFFIC CONTROL EACH			REN	<i>M</i> ARKS	
PRIOR TO CONSTRUCTION PROJECT 6395-00-70	260	3	36	1	G20-57 SIGNS T	O BE PLACED AT PROJECT TE	RMINI 7 DAYS PRIOR TO	O THE CONSTRUCTION AND REM	MOVED WHEN CONSTRUCTION START
TOTAL 0010	260		36	1					
						646.1020 MARKING LINE EPOXY4-INCH			
	STATION	ТО	STATION		LOCATION	LF	LF	RI	EMARKS
	300+80 399+92 399+92 300+80 300+80	-	399+92 405+42.5 405+42.5 405+42.5 405+42.5		CL CL LT RT SIDEROADS TOTAL 0010	9,915 550 550 9,870 10,380 31,265	150	YELLOW PASSIN YELLOW NO-PAS WHITE EDGE LINE/ BIKE LAN WHITE EDGE LINE	PASSING LINE NG LINE WESTBOUND SING LINE EASTBOUND NE DIVIDER, 11FT LEFT OF CENTER , 11FT RIGHT OF CENTER E STOP LINE
						S	650.8000 CONSTRUCTION FAKING RESURFACING REFERENCE	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 6395-00-70	
		STATION	TO	STATION		LOCATION	LF	EACH	REMARKS
		300+80	-	405+42.54		MAINLINE	10,470	1	

PROJECT NO: 6395-00-70

COUNTY: ADAMS

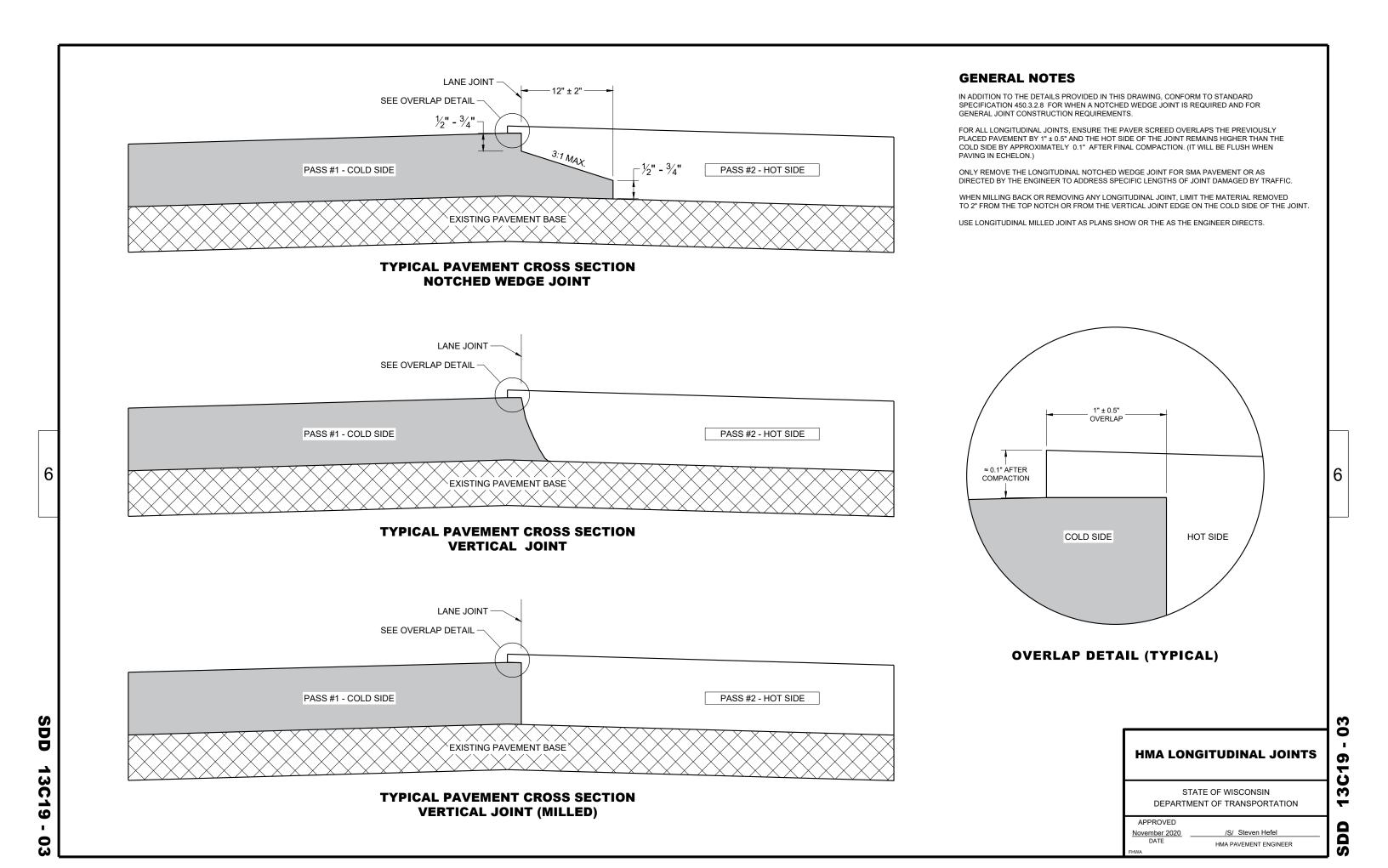
E

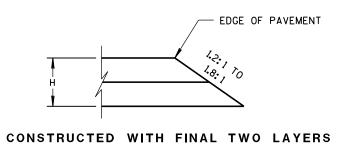
HWY: APACHE AVENUE

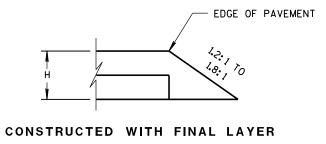
MISCELLANEOUS QUANTITIES

Standard Detail Drawing List

13C19-03	HMA LONGITUDINAL JOINTS
14B29-01	SAFETY EDGE
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-21A	LONGITUDINAL MARKING (MAINLINE)
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-07A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING

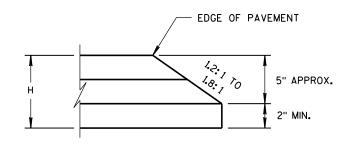


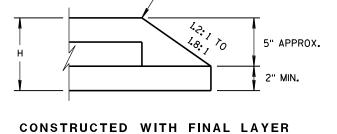




FOR H 5" OR LESS

FOR H 5" OR LESS





EDGE OF PAVEMENT

FOR H GREATER THAN 5"

FOR H GREATER THAN 5"

ASPHALT
SAFETY EDGE —

FINISHED SHOULDER AGGREGATE PLACEMENT

- EDGE OF PAVEMENT

HMA PAVEMENT AND HMA OVERLAYS

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

 $\mathbf{\omega}$

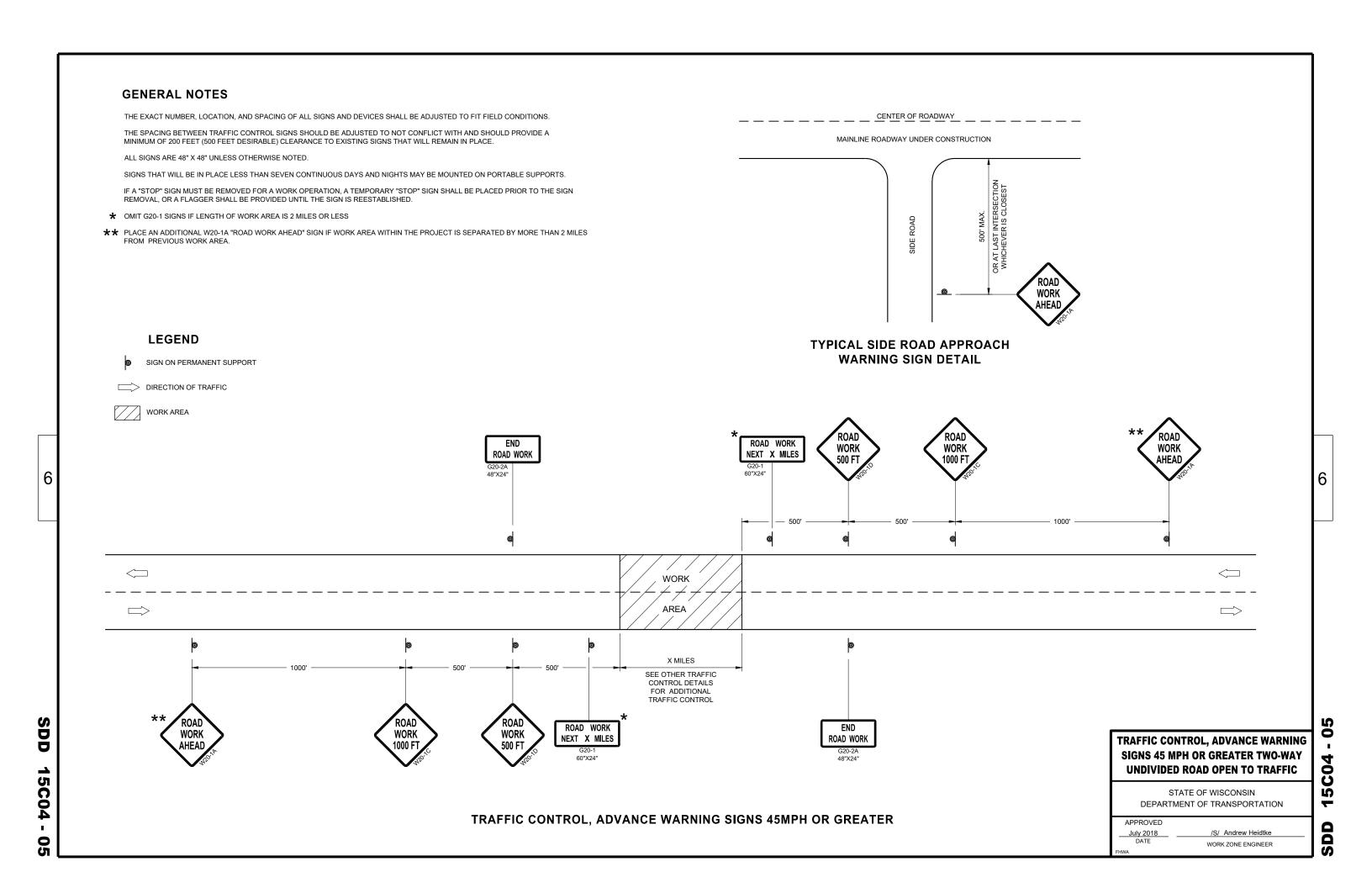
Ω

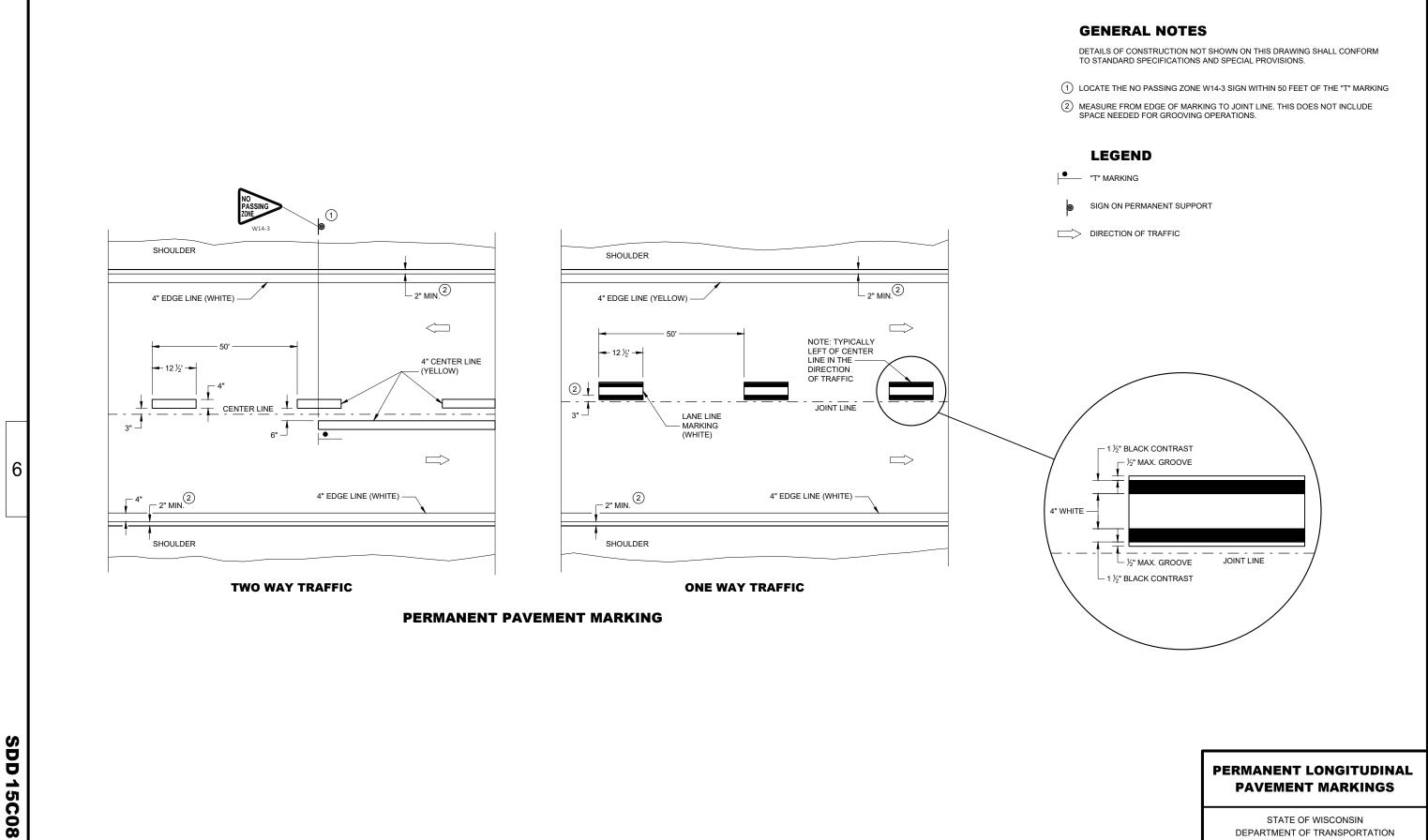
Ω

APPROVED

BASE AGGREGATE DENSE

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER





2 15C08 SDD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Jeannie Silver
STATEWIDE SIGNING AND MARKING
ENGINEER

APPROVED

May 2022 DATE

END

WORK

ROAD

A/2

RUMBLE

STRIPS

GENERAL NOTES FLAGGING 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 REMOVE TEMPORARY DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING. ① FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. WORK OPERATION OR AS APPROVED BY THE ENGINEER. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE. (2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED. THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP **TEMPORARY PORTABLE RUMBLE STRIPS** WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS. TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED ③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST. INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS. DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS. SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE BE SPACING "A" SPEED LIMIT USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, PREPARED THIS SIGN SHALL BE LOCATED BETWEEN THE 25-30 MPH TO STOP W20-7A AND W20-4A SIGNS, USING SPACING "A". 35-40 MPH 350' ŔUMBLĖ 45-55 MPH 500' WO3-4 WORK ROAD STRIPS 1 VARIABLE DISTANCE - 200' - 300' (TYP.) |||3 WORK AREA END ROAD WORK 200' - 300' (TYP.) VARIABLE DISTANCE

TRAFFIC CONTROL FOR LANE CLOSURE WITH **FLAGGING OPERATION**

0

2

Ŋ

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

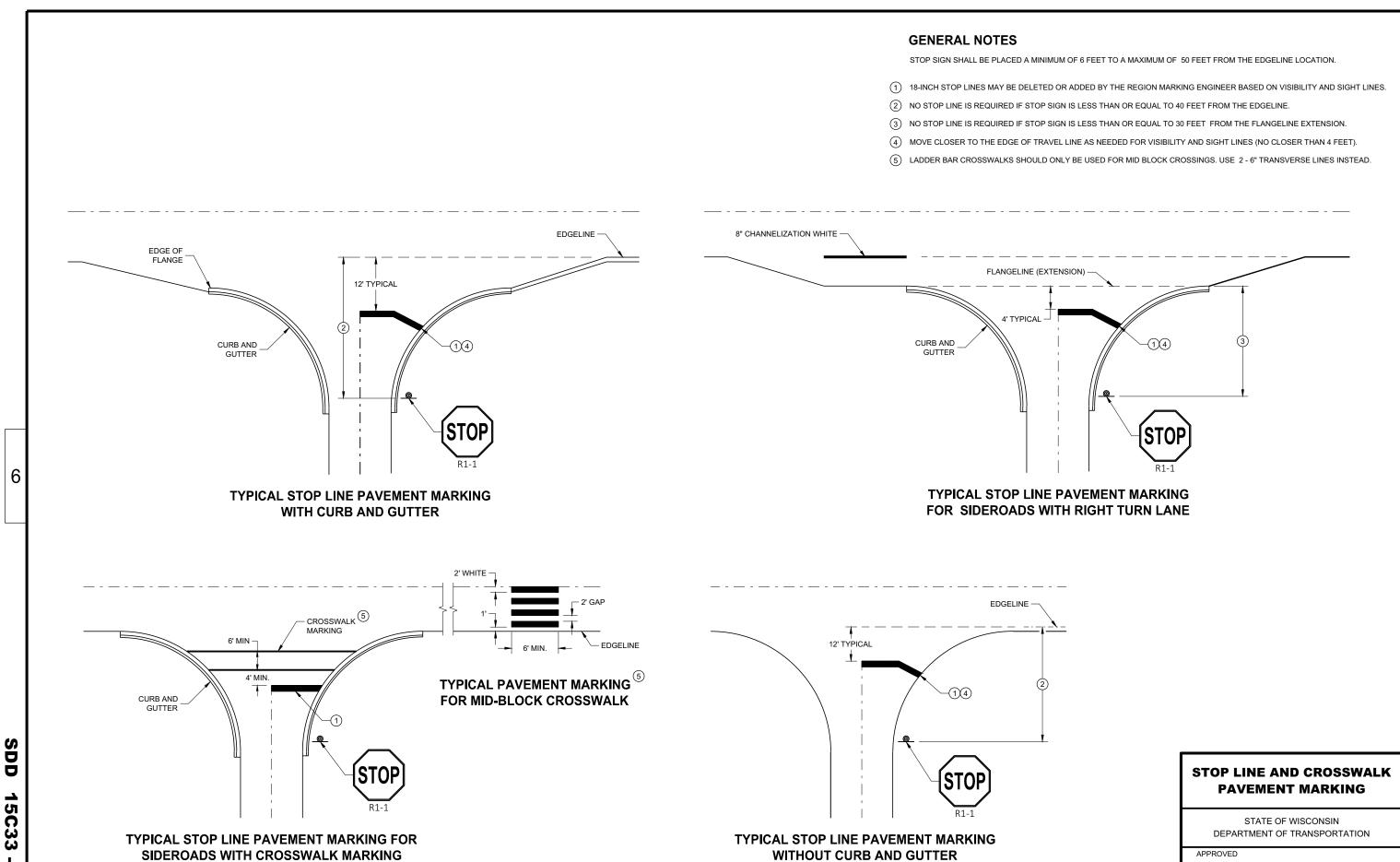
6

0

0

Ŋ

WORK ZONE ENGINEER



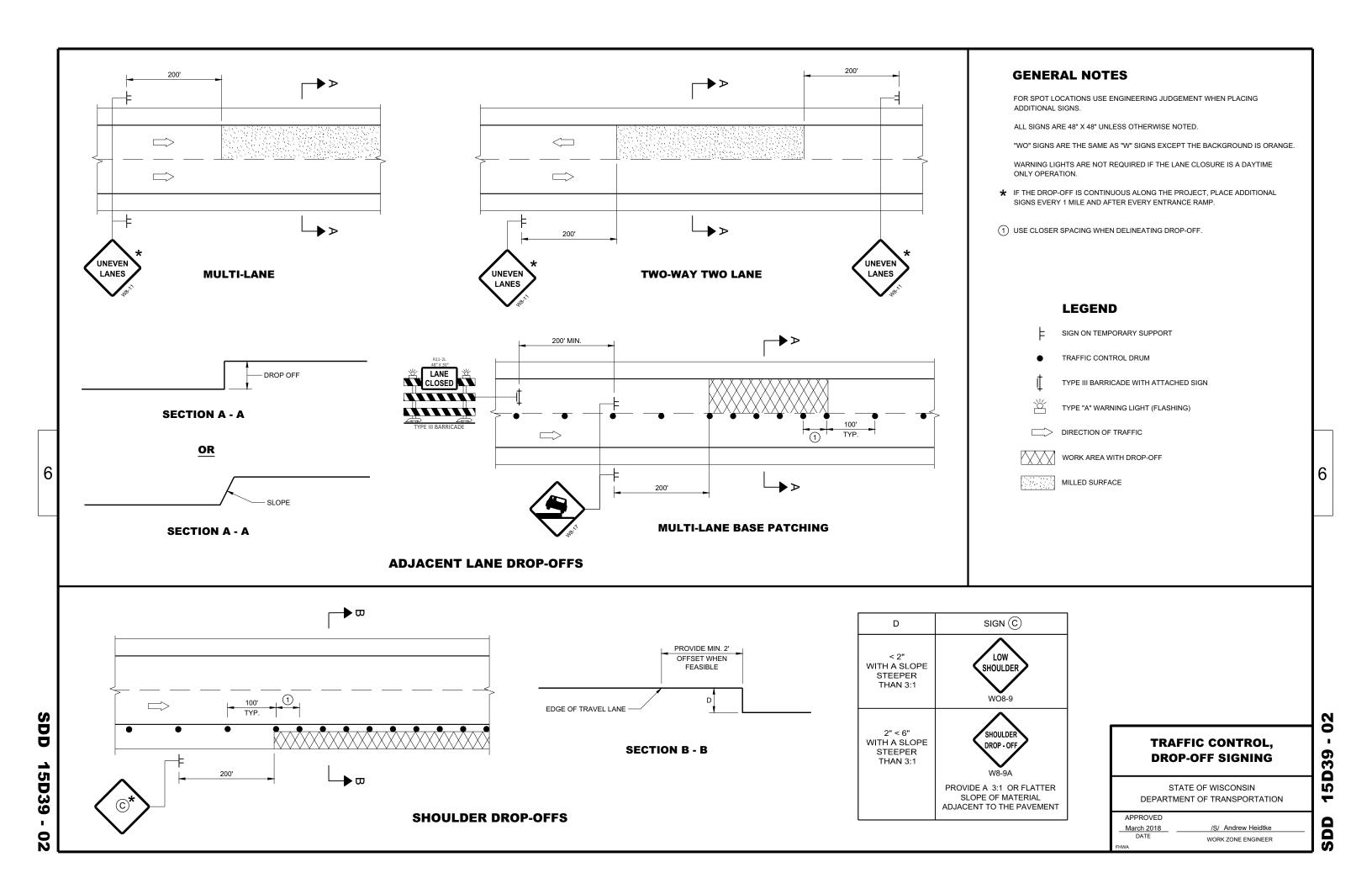
C33

15

SDD

/S/ Matthew Rauch
STATE SIGNING AND MARKING
ENGINEER

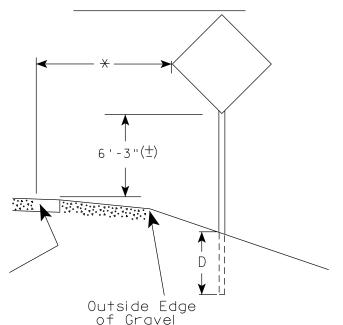
November 2019 DATE



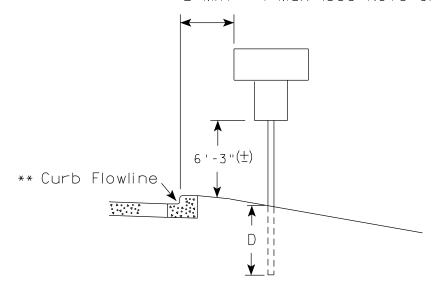
2' Min - 4' Max (See Note 6)

The state of t

White Edgeline Location



2' Min - 4' Max (See Note 6)



White Edgeline Location

geline

Outside Edge
of Gravel

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is

HWY:

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.

2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (\pm). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (\pm).

- 3. For expressways and freeways, mounting height is 7'- 3" (\pm) or 6'-3" (\pm) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is 5' 3'' ($\frac{+}{2}$).
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (±) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.

POST EMBEDMENT DEPTH

Area of Sign	
Installation	D
(Sq.Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

SHEET NO:

Ε

PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\tr_stdplate\A43.dgn

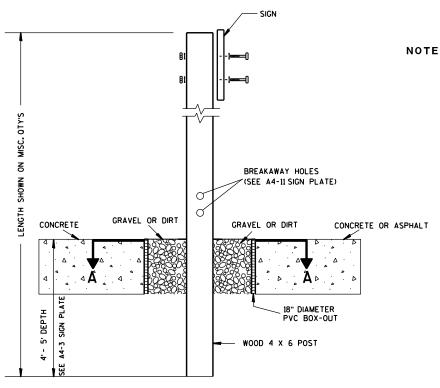
measured from the flow line.

COUNTY: PLOT DATE: 13-MAY 2020 1:04

PLOT BY : mscj9h

PLOT NAME :

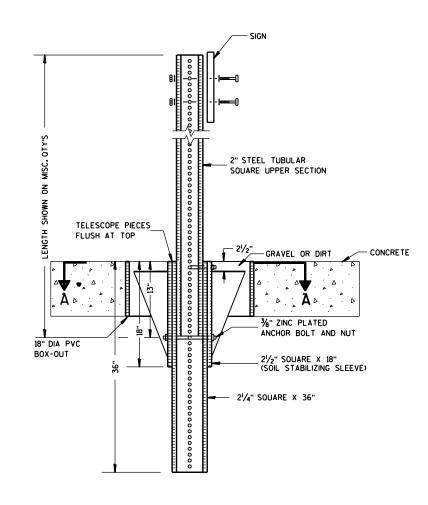
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



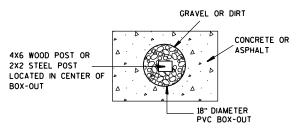
ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT

ELEVATION VIEW

DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE : 13.659812:1.000000

APPROVED

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- $\star\star\star$ See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

D
(Min)
4'
5'

OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

TYPICAL INSTALLATION

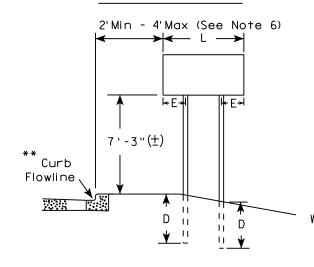
For State Traffic Engineer

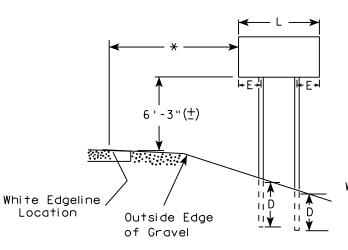
DATE 8/21/17 PLATE NO. A4-4.15

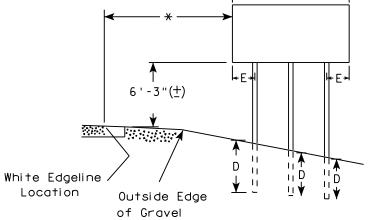
SHEET NO:

URBAN AREA

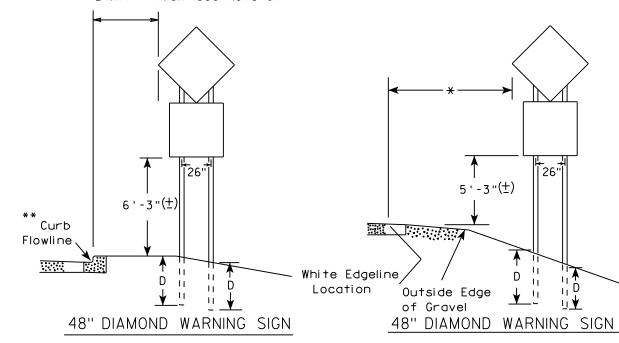
RURAL AREA (See Note 3)







2'Min - 4'Max (See Note 6)



	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)					
	L	E				
***	Greater than 48" Less than 60"	12"				
	60" to 108"	L/5				

HWY:

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 108" to 144"	12''

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

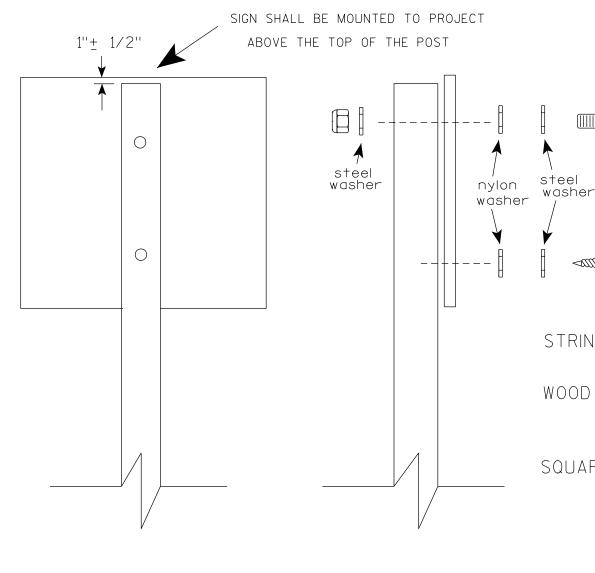
PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

- a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3
- b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS $(4'' \times 6'')$

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN) 3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 3/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON

Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq.ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

DATE 4/1/2020

PLATE NO. <u>A4-8.9</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN

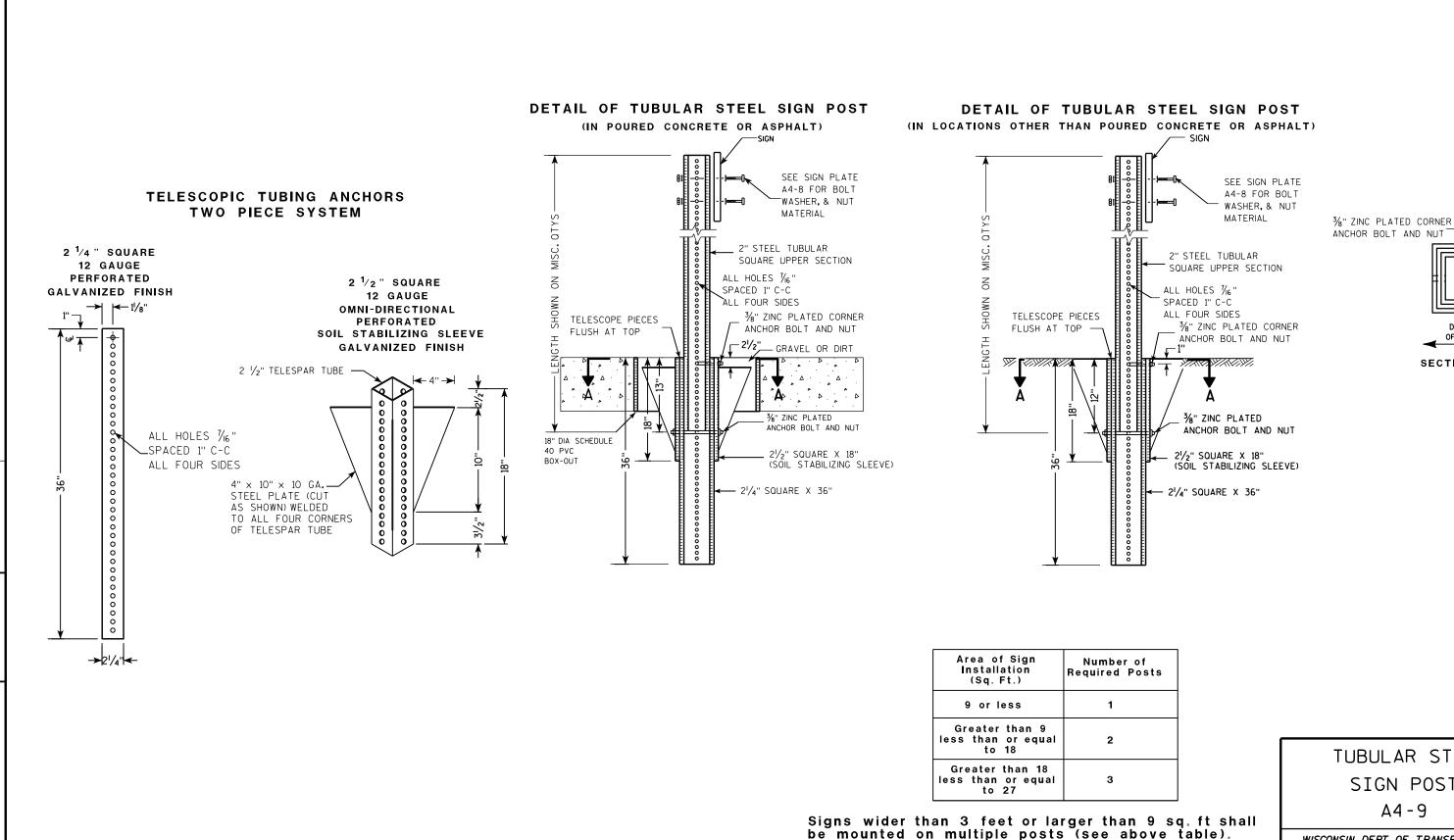
PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε



TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 2/05/15 PLATE NO. <u>A4-9.9</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

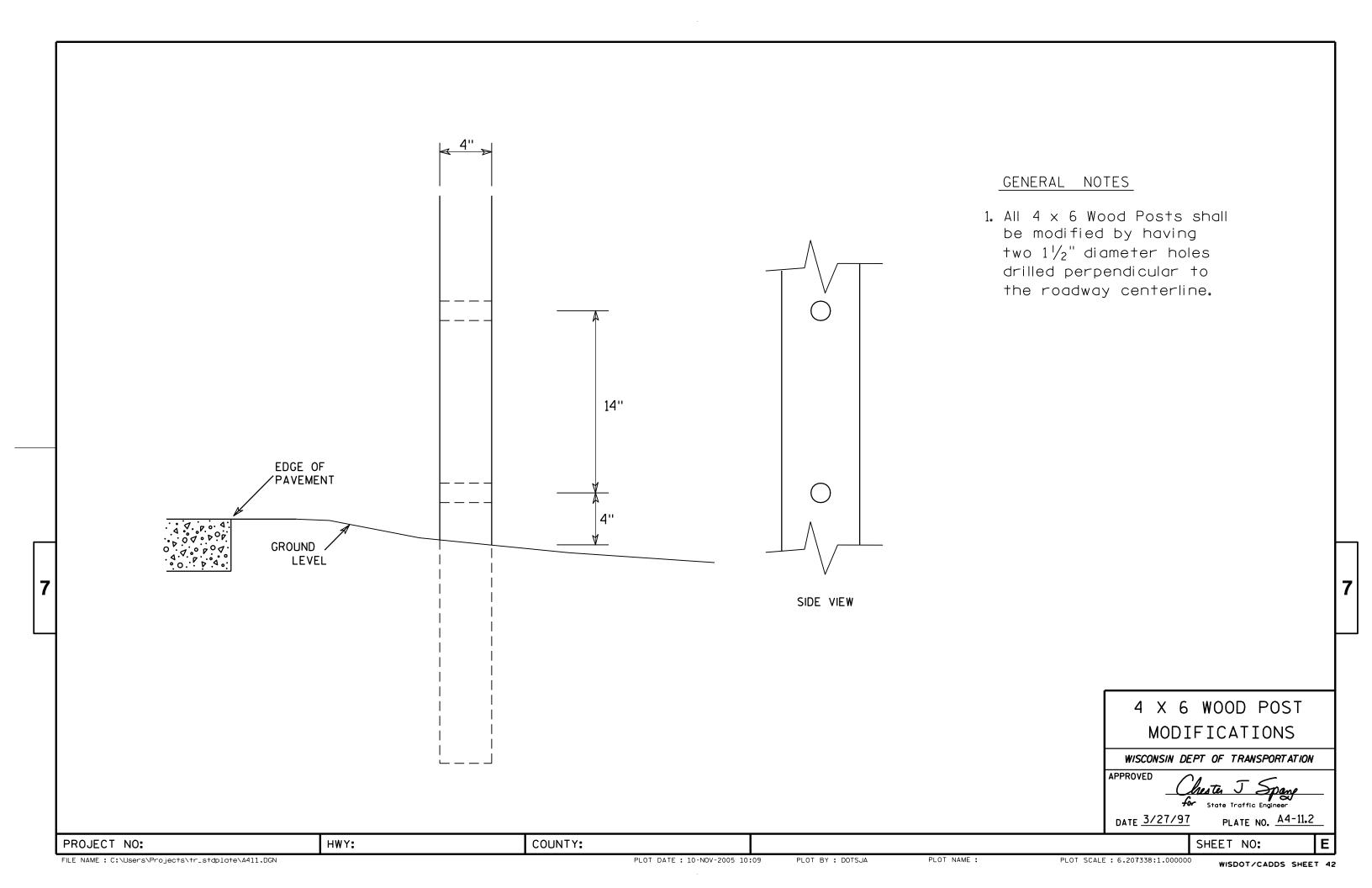
COUNTY:

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

SECTION A-A



NOTES

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance

D-> - E-> -	H H F H
	F B G G

G20-1

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Ρ	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 %												10
3																											
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 ¾	18 ½	3		16	18 %												10
5																											

COUNTY:

STANDARD SIGN G20-1

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer
DATE 3/14/17 PLATE NO. G20-1.8

PROJECT NO: FILE NAME : C:\CAEfiles\Projects\tr_stdplate\G201.DGN HWY:

PLOT DATE: 14-MAR-2017 13:28

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 6.889165:1.000000

WISDOT/CADDS SHEET 42

SHEET NO:

APPROVED Matthew & Rauch

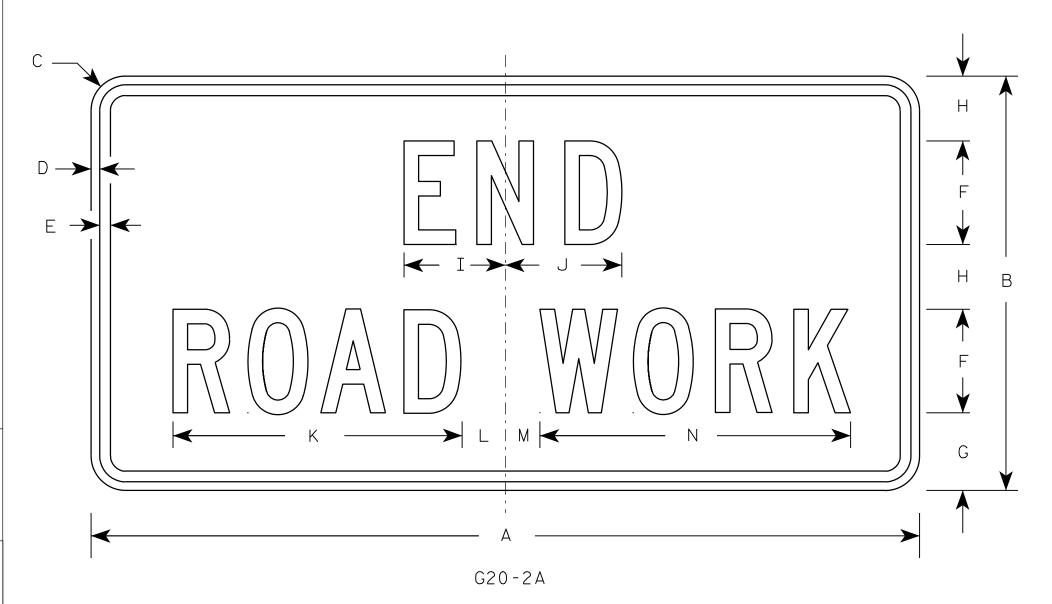
NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

2. Color:

Background - Orange Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Metric equivalent for this sign is:

SIZE					
1	900	mm	Χ	450	mm
2	1200	mm	Х	600	mm
3	1200	mm	Х	600	mm
4	1200	mm	Χ	600	mm
5	1200	mm	Χ	600	mm

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	٧	w	Х	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 3/4	2 1/2	1 3/4	18 ½													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾		1 3/4	18 ½													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 ¾	5 1/8	6 3/4	16 ¾	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED For State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8 SHEET NO:

HWY:

COUNTY:

PLOT NAME :

PLOT SCALE : 5.561773:1.000000

WISDOT/CADDS SHEET 42

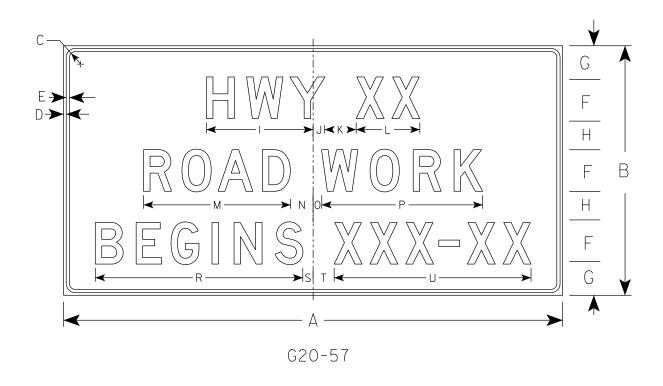
Ε

PROJECT NO:

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background – Orange Message – Black

- 3. Message Series D
- 4. Substitute appropriate numeral and adjust spacing to achieve proper balance.



SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Χ	Υ	Z	Area sq.ft.
1																											
2																											
3	72	36	1 1/8	1/2	5/8	6	5	4	15 %	1 5/8	5	9 1/4	21 1/4	3 1/2	1 1/2	23 1/4		29 1/8	1 3/4	3 1/4	28 1/2						18.0
4	96	48	2 1/4	3/4	1	8	6 1/2	5 1/2	20 %	2 1/4	6	12 1/4	28 1/4	4 3/8	1 5/8	31		39 1/4	2	4	37 1/8						32.0
5					·						·	·												·			

COUNTY:

STANDARD SIGN G20-57

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

For State Traffic Engineer

DATE 1/22/19

PLATE NO. <u>G20-57.3</u>

Ε

FILE NAME : C:\CAEfiles\Projects\tr_stdplate_G2057.dgn

HWY:

PROJECT NO:

PLOT DATE: 22-JAN-2019 1:46

PLOT BY: mscj9h

PLOT NAME :

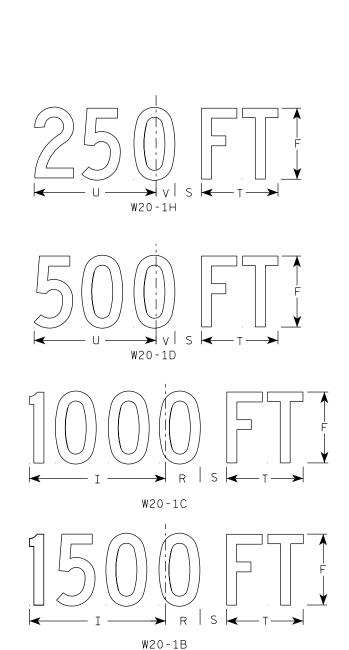
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

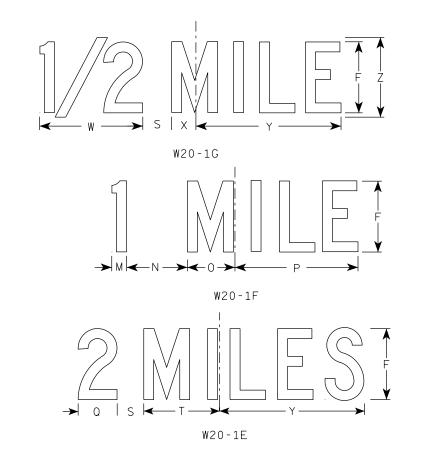
NOTES

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background – Orange Message – Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown.
 When base material is metal, the corners and borders shall be rounded.





SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 1/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 %	9	1 3/8	8	1 3/4	10 3/4	6	9.0
25	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	6 %	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	6 %	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

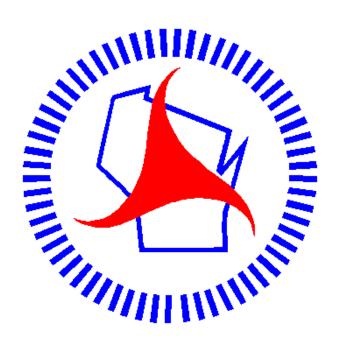
APPROVED Matthew R Rauch

For State Traffic Engineer
DATE 3/25/2020 PLATE NO. W20-1.11

SHEET NO:

PROJECT NO:

W20-1A



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov