

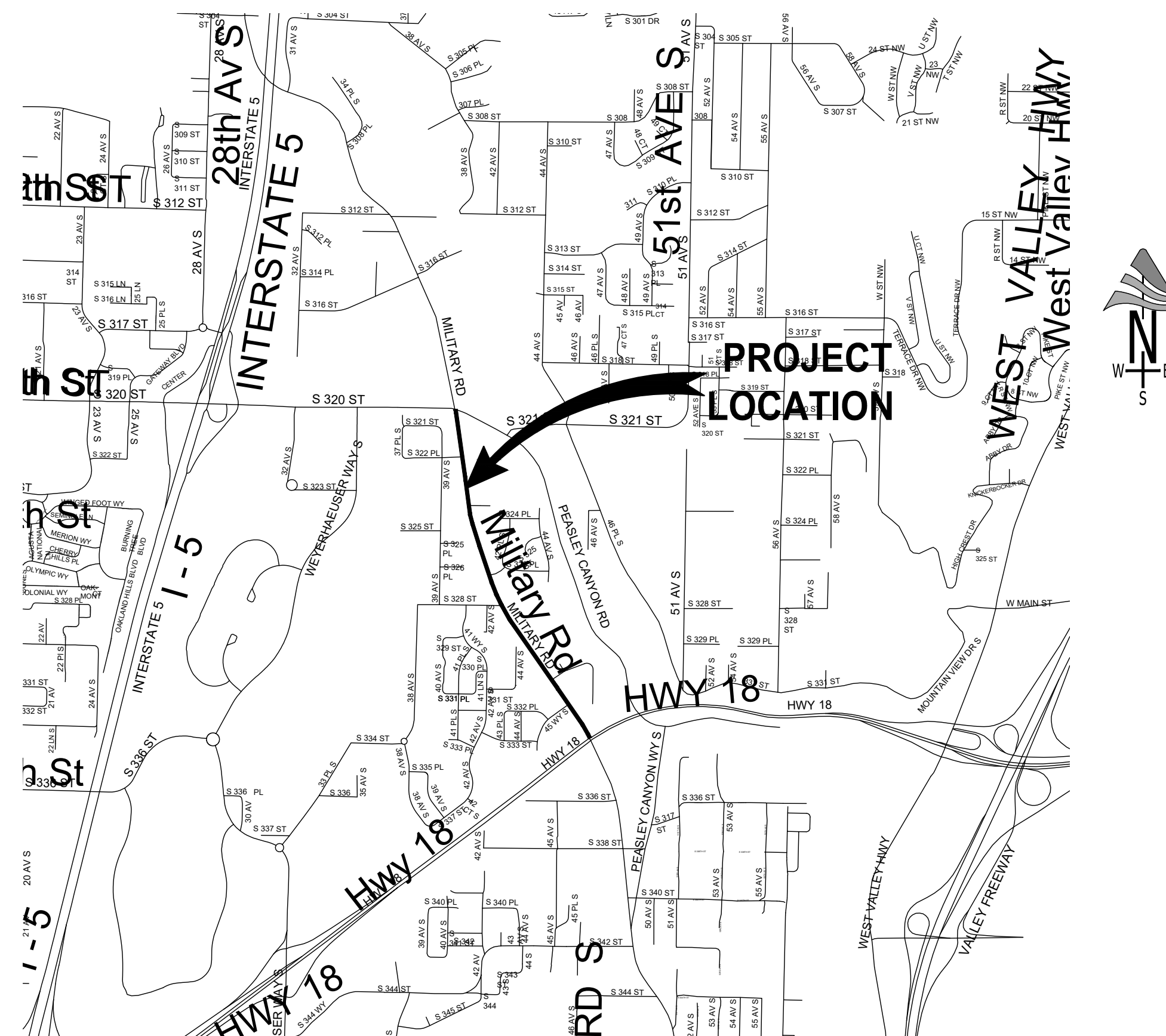
# City of Federal Way Public Works Department MILITARY RD S PRESERVATION PROJECT

October, 2023

RFB # 23-005

GRANT FUNDING NUMBER-STBGUL-1031(006)

SHT#	SHEET TITLE	SHEET DESCRIPTION	LOCATION
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26	TCP 1	INTERSECTION PEDESTRIAN TRAFFIC CONTROL	--
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30	TCP 5	TEMPORARY TRAFFIC CONTROL PLAN_PHASE-I	MILITARY RD S (BRIDGE SR-18)
31	TCP 6	TEMPORARY TRAFFIC CONTROL PLAN_PHASE-I	STA 12+00-STA 22+00
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34	TCP 9	TEMPORARY TRAFFIC CONTROL PLAN_PHASE-I	STA 42+00-STA 52+00
35	TCP 10	TEMPORARY TRAFFIC CONTROL PLAN_PHASE-I	STA 52+00-STA 58+00
36	TCP 11	TEMPORARY TRAFFIC CONTROL PLAN_PHASE-II	MILITARY RD S (BRIDGE SR-18)
37	TCP 12	TEMPORARY TRAFFIC CONTROL PLAN_PHASE-II	STA 12+00-STA 22+00
38	TCP 13	TEMPORARY TRAFFIC CONTROL PLAN_PHASE-II	STA 22+00-STA 32+00
39	TCP 14	TEMPORARY TRAFFIC CONTROL PLAN_PHASE-II	STA 32+00-STA 42+00
40	TCP 15	TEMPORARY TRAFFIC CONTROL PLAN_PHASE-II	STA 42+00-STA 52+00
41	TCP 16	TEMPORARY TRAFFIC CONTROL PLAN_PHASE-II	STA 52+00-STA 58+00



APPROVED FOR CONSTRUCTION

*Desiree S. Winkler* 11/15/23  
 DESIREE S. WINKLER P.E. DATE  
 DEPUTY PUBLIC WORKS DIRECTOR

k:\engineering\division\PROJECTS\ACTIVE\36236 - military road s preservation\03 PE\ACADESC & Site Preparation Plans\_NEW.dwg, 11/17/2023



DRAFTED: S.ALIZAI  
 DESIGNED: J.HUYNH  
 REVIEWED: C.MULLEN  
 APPROVED: C.MULLEN



DRAWING VERSION / REVISION LOG

NO.	DATE	REVISION

MILITARY RD S PRESERVATION PROJECT

COVER SHEET AND INDEX

CITY PROJECT #:  
36236

SHEET  
COVER

01 OF 41



# LEGEND

## EXISTING (PER KPG)

MIC	MONUMENT IN CASE	Ⓣ	TELEPHONE MANHOLE	— P —	PAINTED POWER
MON	SURFACE MONUMENT	Ⓣ	TELEPHONE RISER	— P —	RECORD POWER
△	PK NAIL	Ⓣ	TELEPHONE VAULT LID	— T —	PAINTED TELEPHONE
RC	REBAR & CAP	Ⓣ	TELEPHONE POLE	— T —	RECORD TELEPHONE
⊗	SPOT SHOT (DESCRIBED)	Ⓣ	TV MANHOLE	— FD —	PAINTED FIBER OPTIC
□	CATCH BASIN	Ⓣ	TV RISER	— TV —	PAINTED TV
Ⓣ	STORM DRAIN MANHOLE	Ⓣ	TV VAULT LID	— W —	PAINTED WATER
Ⓣ	YARD DRAIN	Ⓣ	FIBER OPTIC MANHOLE	— W —	RECORD WATER
Ⓣ	DOWNSPOUT	Ⓣ	FIBER OPTIC VAULT LID	— G —	PAINTED GAS
SD	STORM DRAIN CLEAN-OUT	Ⓣ	GAS VALVE	— G —	RECORD GAS
^	CULVERT	Ⓣ	GAS METER	— OH —	OVERHEAD UTILITY LINE (GENERIC)
Ⓣ	SEWER MANHOLE	Ⓣ	GAS MANHOLE	— SD —	STORM
SS	SEWER CLEAN-OUT	Ⓣ	WATER VALVE	— S —	SEWER
Ⓣ	POWER POLE	Ⓣ	WATER METER	— X —	FENCE
Ⓣ	POWER POLE W/UNDERGROUND CONNECT	Ⓣ	WATER MANHOLE	~~~~~	HEDGE (HEIGHT NOTED)
Ⓣ	POWER POLE WITH LUMINAIRE	Ⓣ	WATER VAULT LID	//////	BUILDING
Ⓣ	PWR POLE W/LUMINAIRE & UNDGRD CONNECT	Ⓣ	FIRE HYDRANT	————	PAINTED STRIPE
Ⓣ	POWER MANHOLE	Ⓣ	BLOW-OFF	————	PAINTED SKIP STRIPE
Ⓣ	POWER RISER	Ⓣ	FIRE DEPARTMENT CONNECT	.....	RAISED-BUTTON SOLID
Ⓣ	POWER VAULT LID	Ⓣ	POST INDICATOR VALVE	.....	STRIPE
Ⓣ	POWER TRANSFORMER	Ⓣ	HOSE BIB	.....	RAISED-BUTTON SKIP
Ⓣ	POWER METER	Ⓣ	IRRIGATION CONTROL VALVE	.....	STRIPE
Ⓣ	POWER OUTLET	Ⓣ	UTILITY MANHOLE (GENERIC/UNK)	————	EDGE OF PAVEMENT
Ⓣ	HIGH VOLTAGE POWER POLE	Ⓣ	UTILITY VAULT LID (GENERIC/UNK)	---	FLOWLINE
Ⓣ	HIGH VOLTAGE PWR POLE W/UNDGRD CONNECT	Ⓣ	UTILITY CLEAN-OUT (GENERIC/UNK)	---	CONTOUR
Ⓣ	GUY POLE	Ⓣ	UTILITY RISER (GENERIC/UNK)	---	RIGHT OF WAY LINE
→	GUY ANCHOR	Ⓣ	STAND-PIPE (GENERIC/UNK)	Ⓣ	CONCRETE
Ⓣ	TRAFFIC SIGNAL	Ⓣ	UTILITY ACCESS (GENERIC/UNK)	Ⓣ	GRAVEL
Ⓣ	TRAFFIC SIGNAL WITH LUMINAIRE	Ⓣ	BORE SITE (WITH FIELD DESC)	Ⓣ	GRASS
Ⓣ	PEDESTRIAN SIGNAL	Ⓣ	MONITORING WELL	Ⓣ	ROCKERY
Ⓣ	JUNCTION BOX	Ⓣ	GUARD POST	Ⓣ	BRICK
Ⓣ	TRAFFIC CONTROL CABINET	Ⓣ	BOULDER	Ⓣ	METAL GRATE
Ⓣ	BACKUP POWER SUPPLY	Ⓣ	SIGN	AC	ASPHALT/CONCRETE
Ⓣ	INTERCONNECT CABINET	Ⓣ	MAILBOX (# OF BOXES)	CHLK	CHAINLINK
Ⓣ	ELECTRICAL SERVICE CABINET	Ⓣ	SHRUB	DWY	DRIVEWAY
Ⓣ	TRAFFIC ATTENUATOR LOOP	Ⓣ	STUMP, DIAMETER	COL	COLUMN
Ⓣ	STREET LIGHT (LUMINAIRE)	Ⓣ	SNAG, DIAMETER (# OF TRUNKS)	YD	YARD DRAIN
Ⓣ	LOT LIGHT	Ⓣ	DECIDUOUS TREE, DIA (# OF TRUNKS)	STCR	STRUCTURE
Ⓣ	YARD LIGHT	Ⓣ	CONIFEROUS TREE, DIA (# OF TRUNKS)	FF	FINISHED FLOOR
Ⓣ	RAILROAD CROSSING ARM				
Ⓣ	RAILROAD CROSSING SIGNAL				

## PROPOSED

Ⓣ	MONUMENT	XXX	CONTOUR
Ⓣ	STORMDRAIN MANHOLE	→	DITCH FLOWLINE
Ⓣ	CATCH BASIN	=====	EDGE OF PAVEMENT
Ⓣ	AREA DRAIN	=====	CONCRETE CURB & GUTTER
SD	STORMDRAIN CLEAN-OUT	---	SAWCUT
^	CULVERT	.....	LIMITS OF GRADING
Ⓣ	SEWER MANHOLE	— SD —	STORMDRAIN
Ⓣ	SIGN	— UD —	UNDERDRAIN
MB	MAILBOX	— SS —	SANITARY SEWER
GP	BOLLARD	— W —	WATER
+	BORE / POTHOLE LOCATION	— IRR —	IRRIGATION
Ⓣ	SHRUB	— G —	GAS
Ⓣ	DECIDUOUS TREE, DIA (# OF TRUNKS)	— UE —	UNDERGROUND POWER
Ⓣ	CONIFEROUS TREE, DIA (# OF TRUNKS)	— TEL —	TELECOMMUNICATION
Ⓣ	BOULDER	— OE —	OVERHEAD UTILITY LINE
Ⓣ	STREET LIGHT (LUMINAIRE)	— FO —	CITY FIBER
Ⓣ	TRAFFIC SIGNAL, POLE & MAST ARM	— C —	CUT LINE
Ⓣ	TRAFFIC SIGNAL POLE & MAST ARM W/ LUMINAIRE ARM	— F —	FILL LINE
Ⓣ	PEDESTRIAN PUSHBUTTON POLE	— X —	FENCE - CHAINLINK
Ⓣ	TRAFFIC / ILLUM J-BOX	— O —	FENCE - WOOD
Ⓣ	TRAFFIC CONTROL CABINET	Ⓣ	CONCRETE
BPS	BACKUP POWER SUPPLY	Ⓣ	ASPHALT
Ⓣ	ELECTRICAL SERVICE CABINET	Ⓣ	GRAVEL
Ⓣ	TRAFFIC SIGNAL VEHICLE DETECTION	Ⓣ	ROCKERY WALL
Ⓣ	CITY FIBER OPTIC VAULT / J-BOX	Ⓣ	BLOCK RETAINING WALL
Ⓣ	FESTIVAL OUTLET	Ⓣ	GRASS
Ⓣ	POWER POLE	Ⓣ	BARK / MULCH
Ⓣ	POWER POLE GUY ANCHOR	Ⓣ	PERMEABLE CONCRETE PAVERS
Ⓣ	POWER POLE W/ LUMINAIRE	Ⓣ	DETECTABLE WARNING SURFACE
Ⓣ	POWER VAULT LID / J-BOX		
Ⓣ	POWER TRANSFORMER		
Ⓣ	POWER METER		
Ⓣ	TELECOMM VAULT / J-BOX		
PED	UTILITY PEDESTAL		
Ⓣ	GAS VALVE		
Ⓣ	GAS METER		
Ⓣ	WATER VALVE		
Ⓣ	WATER METER		
Ⓣ	WATER VAULT LID		
Ⓣ	FIRE HYDRANT		
Ⓣ	BLOW-OFF		

# ABBREVIATIONS

ABND	ABANDONED	MW	MONITORING WELL
AC	ASPHALT	N	NORTHING/NORTH
AC	ASBESTOS CEMENT WATER PIPE	NO	NUMBER
ACP	ASPHALT CONCRETE PAVEMENT	NTS	NOT TO SCALE
ADA	AMERICANS WITH DISABILITIES ACT	OC	ON CENTER
AP	ANGLE POINT	OD	OUTSIDE DIAMETER
AVE	AVENUE	OH	OVERHEAD UTILITIES
BLDG	BUILDING	PC	POINT OF CURVATURE
BMP	BEST MANAGEMENT PRACTICE	PCC	POINT OF CURVE ON CURVE
BOW	BACK OF WALK	PE	POLYETHYLENE
CB	CATCH BASIN	PG	PERFORMANCE GRADE
CDF	CONTROLLED DENSITY FILL	PI	POINT OF INTERSECTION
CI	CAST IRON	PIV	POST INDICATOR VALVE
CL	CENTERLINE	POB	POINT OF BEGINNING
CL	CLASS	POC	POINT OF CONNECTION
CO	CLEANOUT	POE	POINT OF ENDING
CONC	CONCRETE	PRC	POINT OF REVERSE CURVATURE
CONT	CONTAINER	PT	POINT OF TANGENCY
DCVA	DOUBLE CHECK VALVE ASSEMBLY	PVC	POLYVINYL CHLORIDE
DI	DUCTILE IRON	PVI	POINT OF VERTICAL INTERSECTION
DIA #	DIAMETER	R	RADIUS
CFW	CITY OF FEDERAL WAY	RJ	RESTRAINED JOINT
CSBC	CRUSHED SURFACING BASE COURSE	RT	RIGHT
E	EASTING/EAST	S	SLOPE/SOUTH
EL	ELEVATION	SD	STORM DRAIN
ELEV	ELEVATION	SDP	STORM DRAIN PIPE
EOP	EDGE OF PAVEMENT	SEW	SEWER
EX	EXISTING	SHT	SHEET
EXIST	EXISTING	SSMH	SANITARY SEWER MANHOLE
FDC	FIRE DEPARTMENT CONNECTION	ST	STREET
FG	FINISHED GRADE	STA	STATION
FL	FLANGE	STD	STANDARD
FL	FLOWLINE	T	TANGENT LENGTH
HORIZ	HORIZONTAL	T1	TYPE 1 CATCH BASIN
HMA	HOT MIX ASPHALT	T2	TYPE 2 CATCH BASIN
ICV	IRRIGATION CONTROL VALVE	TOC	TOP OF CURB
ID	INSIDE DIAMETER	TOG	TOP OF GRATE
IE	INVERT ELEVATION	TYP	TYPICAL
L	LENGTH OF CURVE	VC	VERTICAL CURVE
LT	LEFT	VERT	VERTICAL
LF	LINEAR FEET	VLT	VAULT
LP	LOW POINT	W	WEST / WITH
MAX	MAXIMUM	WAT	WATER
MIN	MINIMUM	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
MH	MANHOLE		
MIC	MONUMENT IN CASE		
MJ	MECHANICAL JOINT		

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**811**  
Know what's below.  
Call before you dig.

DRAFTED: S.ALIZAI
DESIGNED: J.HUYNH
REVIEWED: C.MULLEN
APPROVED: C.MULLEN



CHRISTINE J. MULLEN  
REGISTERED PROFESSIONAL ENGINEER  
13-NOV-2023

DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

**MILITARY RD S PRESERVATION PROJECT**

**ABBREVIATION AND LEGEND**

CITY PROJECT #:	36236
SHEET	ABB
	02 OF 41



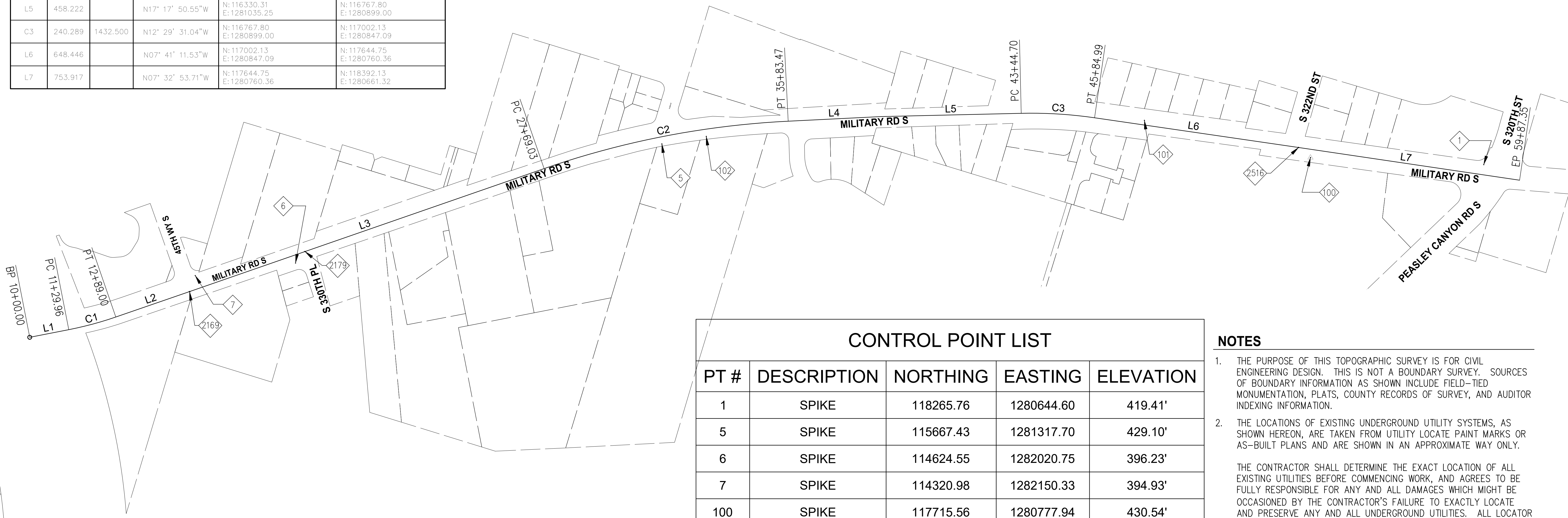
Military Road S					
Number	Length	Radius	Line/Chord Direction	START NORTHING & EASTING	END NORTHING & EASTING
L1	129.963		N27° 02' 36.91"W	N: 113856.97 E: 1282492.69	N: 113972.73 E: 1282433.60
C1	159.042	1146.000	N31° 01' 09.66"W	N: 113972.73 E: 1282433.60	N: 114108.92 E: 1282351.71
L2	254.777		N34° 59' 42.41"W	N: 114108.92 E: 1282351.71	N: 114317.63 E: 1282205.59
L3	1225.248		N35° 06' 16.10"W	N: 114317.63 E: 1282205.59	N: 115320.01 E: 1281500.99
C2	814.437	2865.000	N26° 57' 38.52"W	N: 115320.01 E: 1281500.99	N: 116043.49 E: 1281132.98
L4	303.009		N18° 49' 00.94"W	N: 116043.49 E: 1281132.98	N: 116330.31 E: 1281035.25
L5	458.222		N17° 17' 50.55"W	N: 116330.31 E: 1281035.25	N: 116767.80 E: 1280899.00
C3	240.289	1432.500	N12° 29' 31.04"W	N: 116767.80 E: 1280899.00	N: 117002.13 E: 1280847.09
L6	648.446		N07° 41' 11.53"W	N: 117002.13 E: 1280847.09	N: 117644.75 E: 1280760.36
L7	753.917		N07° 32' 53.71"W	N: 117644.75 E: 1280760.36	N: 118392.13 E: 1280661.32

### HORIZONTAL AND VERTICAL DATUM

HORIZONTAL DATUM: NAD 83/11

VERTICAL DATUM: NAVD 88

HORIZONTAL AND VERTICAL DATUMS ESTABLISHED BY RTK GPS OBSERVATION UTILIZING WSRN (WASHINGTON STATE REFERENCE NETWORK)



### CONTROL POINT LIST

PT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	SPIKE	118265.76	1280644.60	419.41'
5	SPIKE	115667.43	1281317.70	429.10'
6	SPIKE	114624.55	1282020.75	396.23'
7	SPIKE	114320.98	1282150.33	394.93'
100	SPIKE	117715.56	1280777.94	430.54'
101	SPIKE	117160.80	1280810.47	434.48'
102	SPIKE	115800.07	1281254.33	431.38'
2169	MIC / LID	114317.63	1282205.59	395.43'
2179	MIC / LID	114644.03	1281976.16	396.99'
2516	MIC / LID	117669.02	1280757.14	1723.46'

### NOTES

- THE PURPOSE OF THIS TOPOGRAPHIC SURVEY IS FOR CIVIL ENGINEERING DESIGN. THIS IS NOT A BOUNDARY SURVEY. SOURCES OF BOUNDARY INFORMATION AS SHOWN INCLUDE FIELD-TIED MONUMENTATION, PLATS, COUNTY RECORDS OF SURVEY, AND AUDITOR INDEXING INFORMATION.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITY SYSTEMS, AS SHOWN HEREON, ARE TAKEN FROM UTILITY LOCATE PAINT MARKS OR AS-BUILT PLANS AND ARE SHOWN IN AN APPROXIMATE WAY ONLY.  
  
THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. ALL LOCATOR SERVICES SHOULD BE CONTACTED PRIOR TO ANY CONSTRUCTION OR SUBSURFACE EXPLORATION. CALL 1-800-424-5555.
- FIELD SURVEY: KPG, DECEMBER, 2021. LICENSEE MICHAEL R. BOWEN, P.L.S. NO. 29294/RONALD D. REICHEL, P.L.S. NO. 38015.
- CONTOUR INTERVAL = 1 FOOT, ±0.5 FOOT PER NATIONAL MAPPING STANDARDS. CONTOURS DERIVED FROM DIRECT FIELD OBSERVATIONS.
- STORM AND SEWER CONNECTIONS HAVE BEEN DRAWN FROM CENTER OF LID TO CENTER OF LID.
- THE LOCATIONS AND DIMENSIONS OF UNDERGROUND VAULTS HAVE NOT BEEN VERIFIED AND ARE APPROXIMATE.

k:\engineering\division\PROJECTS\ACTIVE\36236 - military road s preservation\03 PEACAD\SURVEY Control Points.dwg, 10/24/2023

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DRAFTED: S.ALIZAI  
DESIGNED: J.HUYNH  
REVIEWED: C.MULLEN  
APPROVED: C.MULLEN



#### DRAWING VERSION / REVISION LOG

NO.	DATE	REVISION

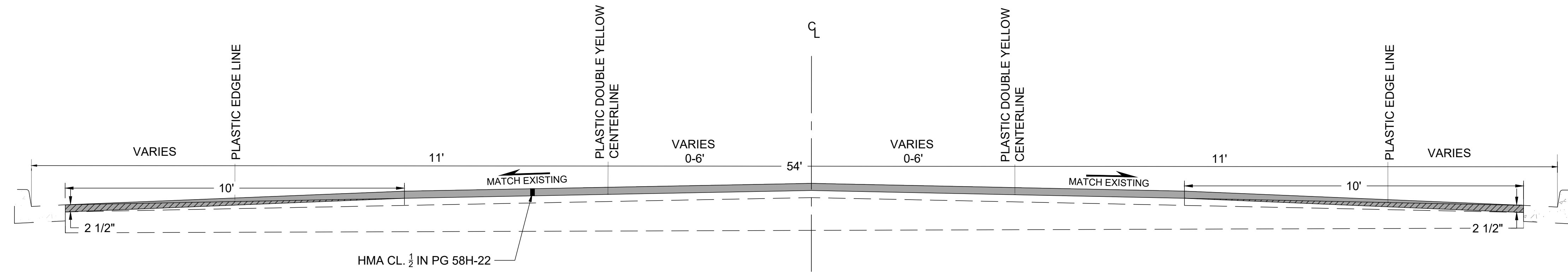
## MILITARY RD S PRESERVATION PROJECT

### SURVEY PLAN

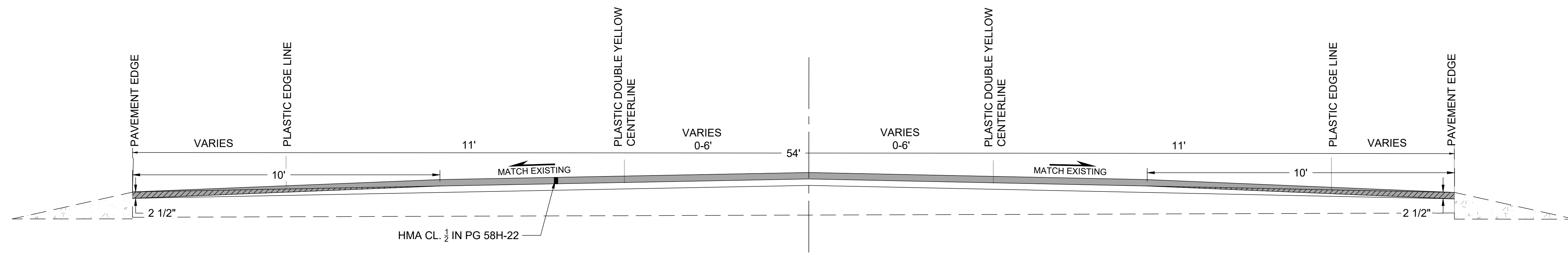
CITY PROJECT #:  
36236

SHEET  
SURVEY

03 OF 41



TYPICAL CROSS SECTION



TYPICAL CROSS SECTION ALTERNATIVE ROAD EDGE CONDITION (NO CURB)

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**MILITARY RD S PRESERVATION PROJECT**

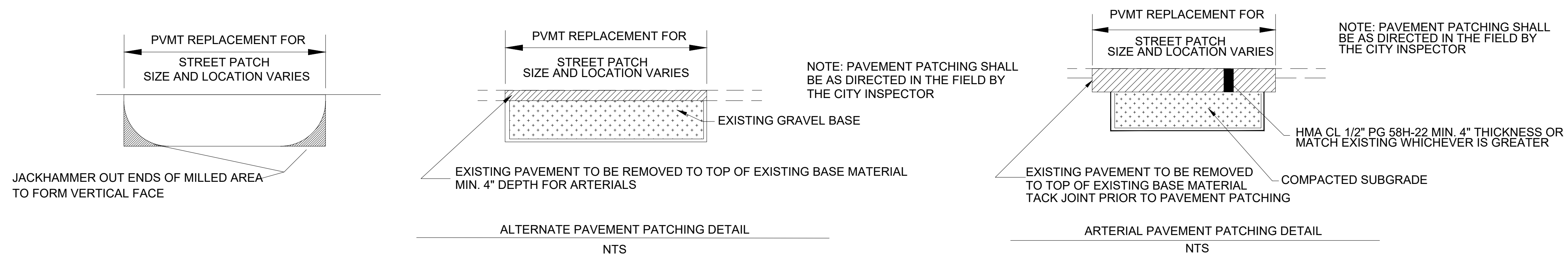
**SECTIONS & DETAILS**

CITY PROJECT #:  
**36236**

SHEET  
**SEC 1**

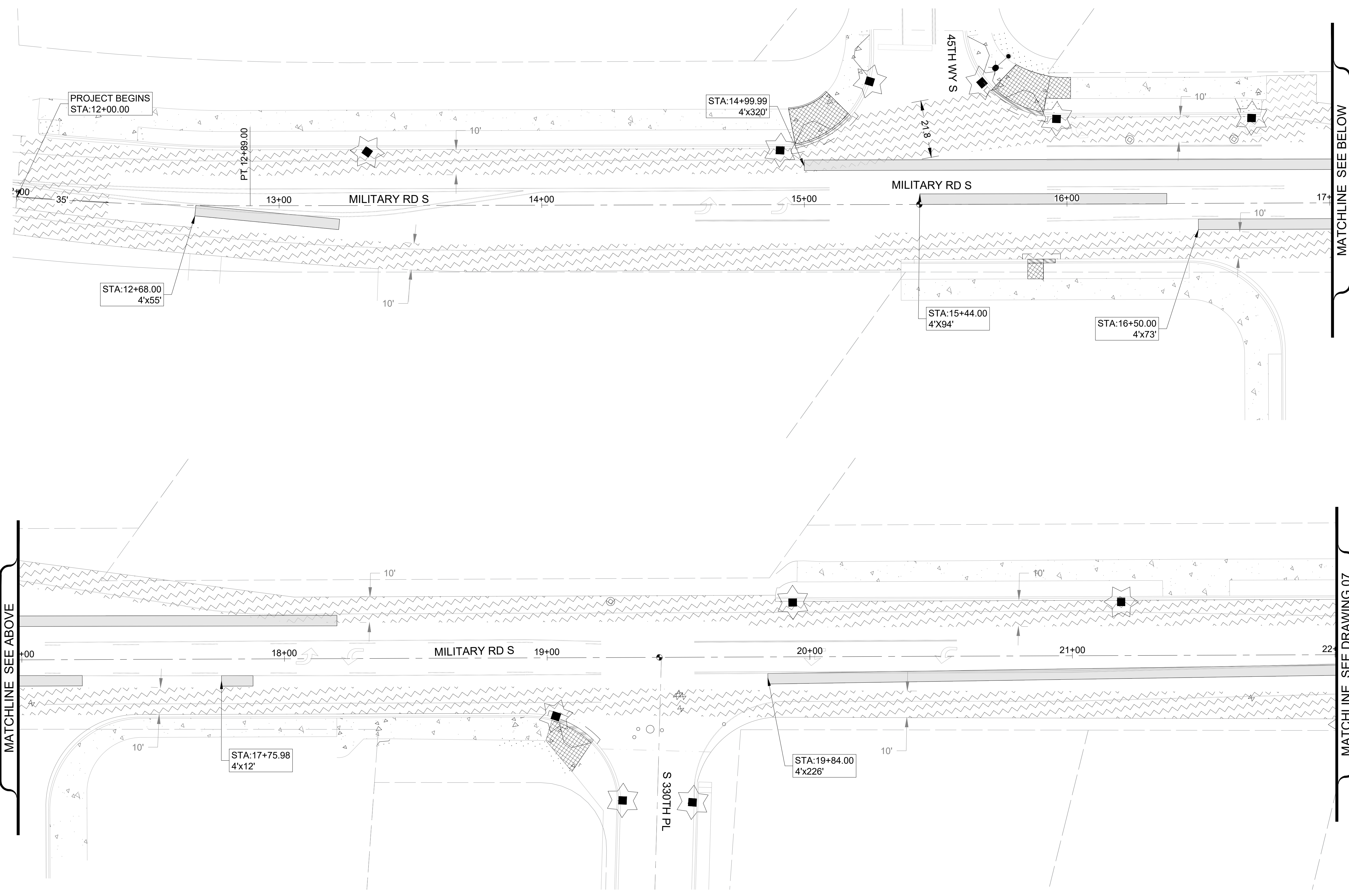
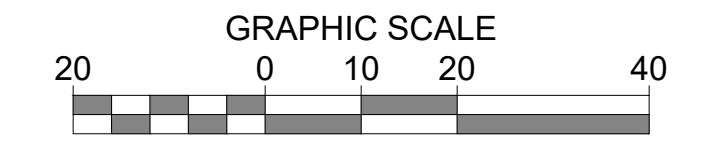
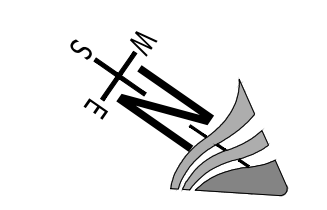
04 OF 41



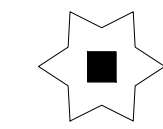
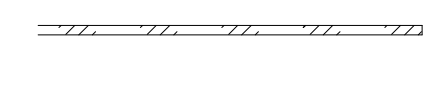
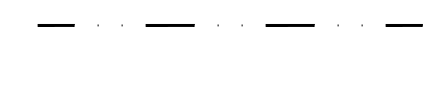


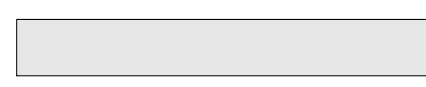


k:\engineering\division\PROJECTS\ACTIVE\36236 - military road s preservation\03 PEVACAD\Military Road S Preservation Project Cross Section\_NEW.dwg, 10/27/2023

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**SITE PREP & TESC LEGEND**

-  INLET PROTECTION INSERT
-  CEMENT CONC. CURB AND GUTTER REMOVAL
-  SAWCUT LINE
-  CEMENT CONC. SIDEWALK REMOVAL
-  PLANING BITUMINOUS PAVEMENT
-  PAVEMENT REPAIR

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**MILITARY RD S PRESERVATION PROJECT**

**ESC AND SITE PREPARATION PLAN**

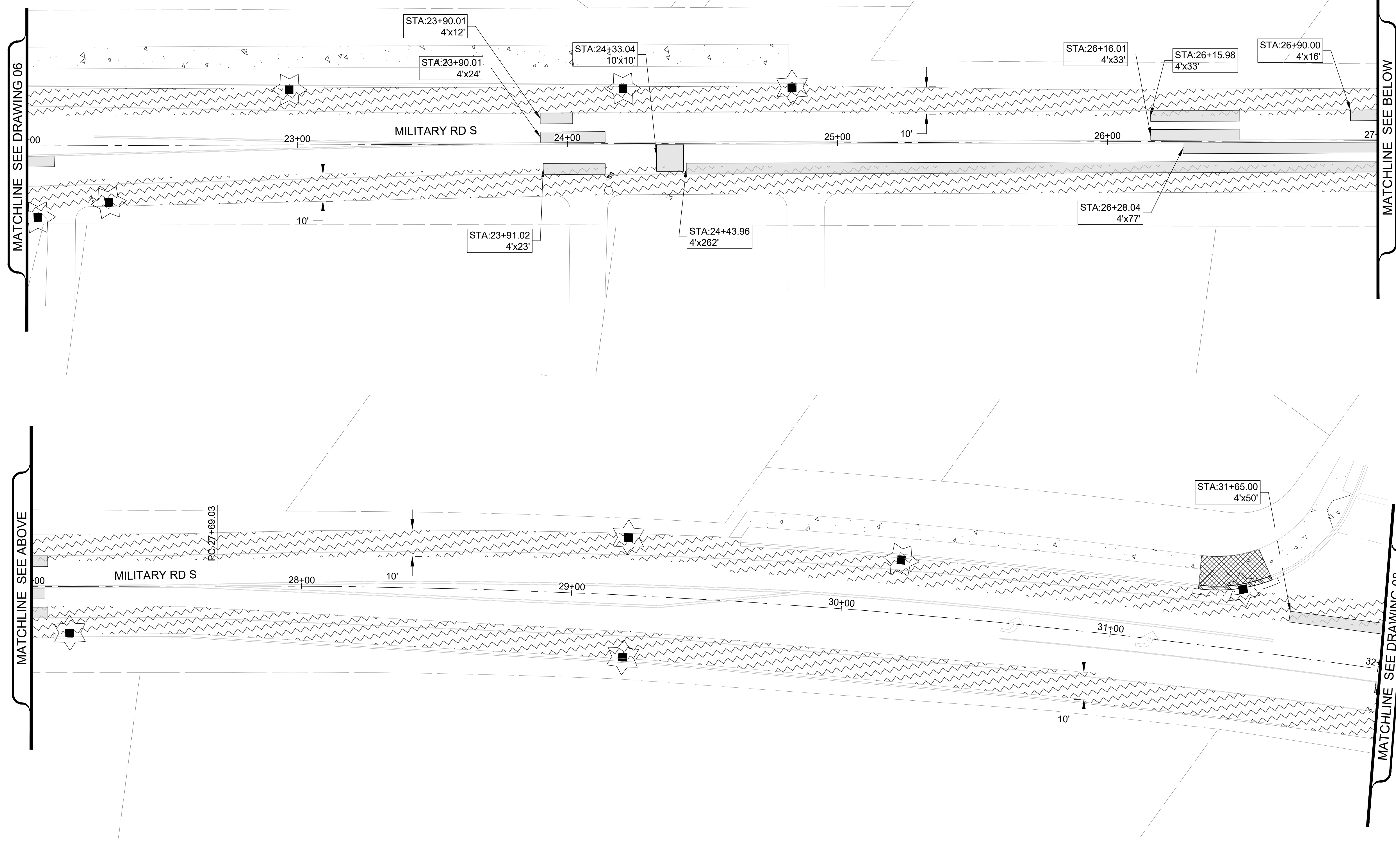
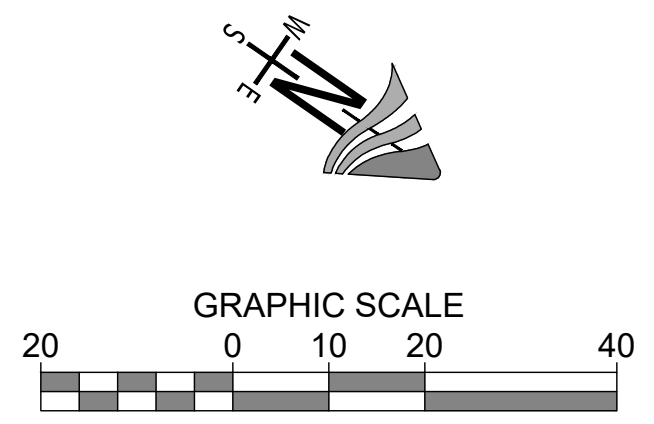
STA 12+00-STA 22+00

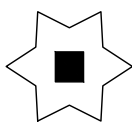
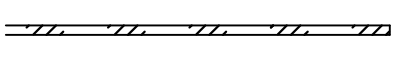
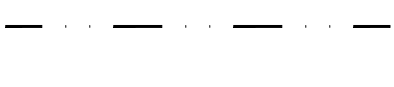



CITY PROJECT #:  
**36236**

SHEET  
**ESC 1**

06 OF 41





- SITE PREP & TESC LEGEND**
-  INLET PROTECTION INSERT
  -  CEMENT CONC. CURB AND GUTTER REMOVAL
  -  SAWCUT LINE
  -  CEMENT CONC. SIDEWALK REMOVAL
  -  PLANING BITUMINOUS PAVEMENT
  -  PAVEMENT REPAIR

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REVIEWED: C.MULLEN  
APPROVED: C.MULLEN



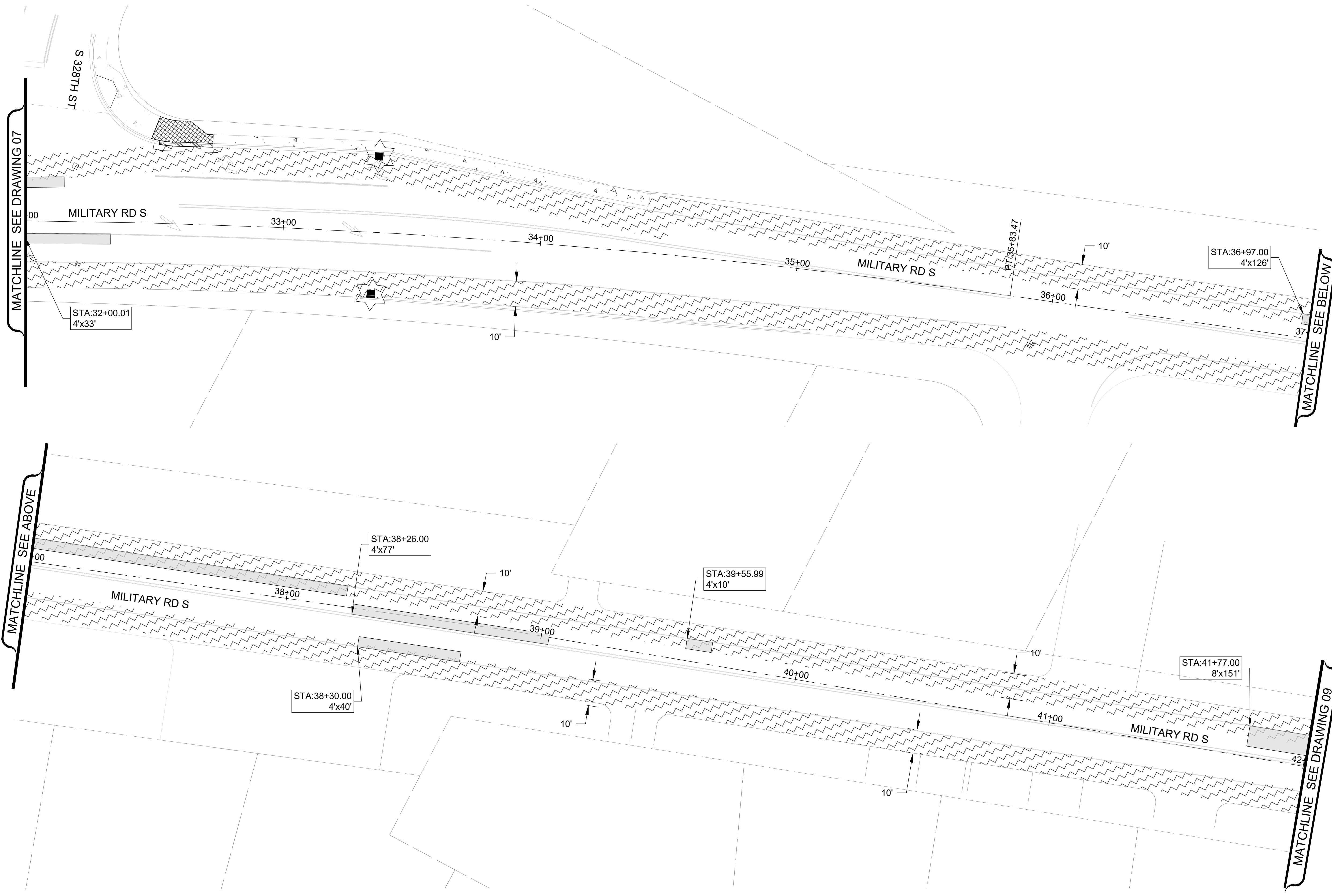
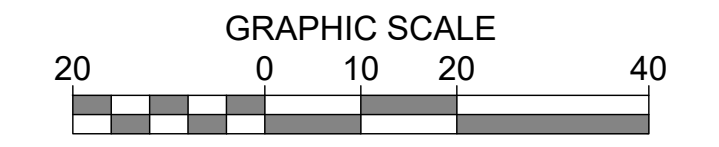
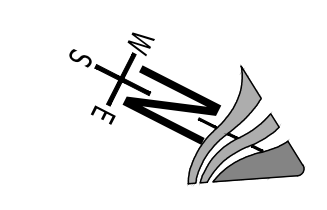
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REGISTERED PROFESSIONAL ENGINEER  
13-NOV-2023

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NO.	DATE	REVISION

**MILITARY RD S PRESERVATION PROJECT**  
**ESC AND SITE PREPARATION PLAN**  
STA 22+00-STA 32+00

CITY PROJECT #:  
**36236**  
SHEET  
**ESC 2**  
07 OF 41





**SITE PREP & TESC LEGEND**

	INLET PROTECTION INSERT
	CEMENT CONC. CURB AND GUTTER REMOVAL
	SAWCUT LINE
	CEMENT CONC. SIDEWALK REMOVAL
	PLANING BITUMINOUS PAVEMENT
	PAVEMENT REPAIR

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**MILITARY RD S PRESERVATION PROJECT**

**ESC AND SITE PREPARATION PLAN**

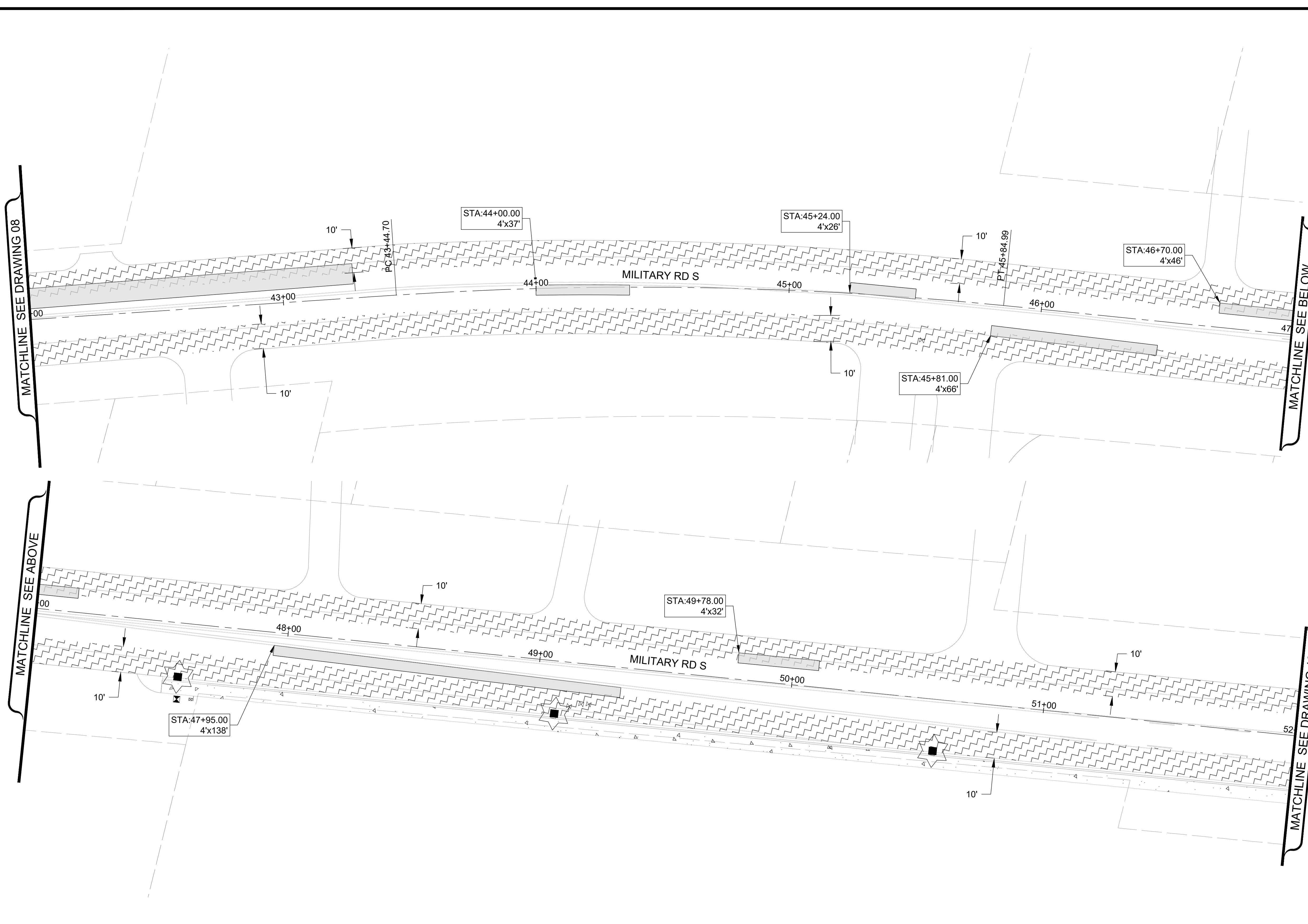
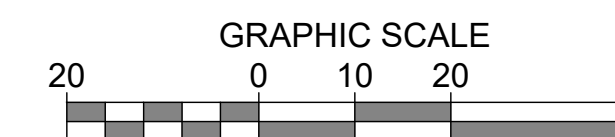
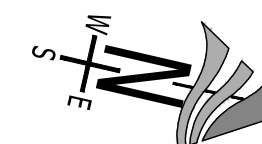
STA 32+00-STA 42+00

CITY PROJECT #:  
**36236**

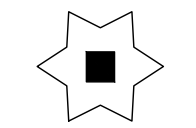
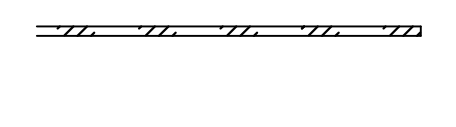
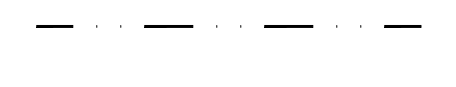



SHEET  
**ESC 3**

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**SITE PREP & TESC LEGEND**

-  INLET PROTECTION INSERT
-  CEMENT CONC. CURB AND GUTTER REMOVAL
-  SAWCUT LINE
-  CEMENT CONC. SIDEWALK REMOVAL
-  PLANING BITUMINOUS PAVEMENT
-  PAVEMENT REPAIR

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**ESC AND SITE PREPARATION PLAN**

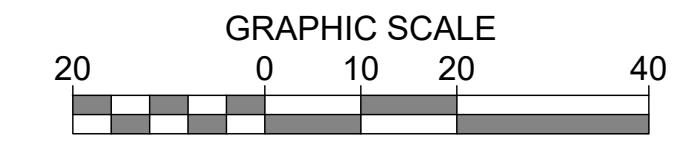
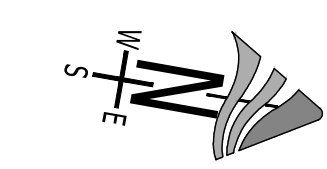
STA 42+00-STA 52+00

CITY PROJECT #:  
36236

SHEET  
**ESC 4**

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- CONSTRUCTION NOTES**
- EXISTING DETECTION AND ADVANCED LOOPS CAN BE REMOVED DURING PLANING.

**SITE PREP & TESC LEGEND**

	INLET PROTECTION INSERT
	CEMENT CONC. CURB AND GUTTER REMOVAL
	SAWCUT LINE
	CEMENT CONC. SIDEWALK REMOVAL
	PLANING BITUMINOUS PAVEMENT
	PAVEMENT REPAIR

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STATE OF WASHINGTON  
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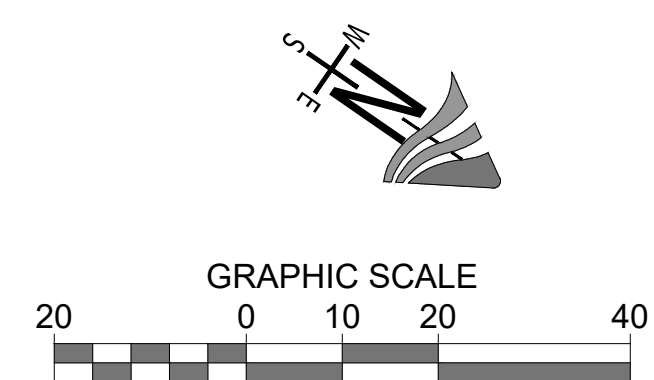
STA 52+00-STA 59+00

CITY PROJECT #:  
**36236**

SHEET  
**ESC 5**

10 OF 41





**LEGEND**

- CEMENT CONC. CURB AND GUTTER PER CFW STD. DETAIL 3-04
- HMA CL. 1/2 IN PG. 58H-22
- CEMENT CONC. SIDEWALK PER CFW STD. DETAIL 3-12

**CONSTRUCTION NOTES**

- 1 MATCH EXISTING
- 2 CEMENT CONC. PEDESTRIAN CURB
- 3 CEMENT CONC. PERPENDICULAR CURB RAMP PER WSDOT STD. PLAN F-40.15-04. SEE SHEETS 16 AND 18-20.
- 4 ADJUST MANHOLE PER CFW STD. DETAIL 3-55
- 5 INSTALL HIGH IMPACT RISER
- 6 REPLACE EXISTING LID/FRAME WITH HEAVY DUTY ROUND SOLID LOCKING CASTING
- 7 ADJUST CATCH BASIN PER CFW STD. DETAIL 3-55
- 8 ADJUST MONUMENT CASE AND COVER
- 9 TO BE ADJUST BY OTHER
- 10 THICKENED EDGE
- 11 MAINTENANCE ROCK FOR SHOULDER RECONSTRUCTION
- 12 CEMENT CONC. PARALLEL CURB RAMP
- 13 CEMENT CONC. COMBINATION CURB RAMP
- 14 CEMENT CONC. SINGLE DIRECTION CURB RAMP

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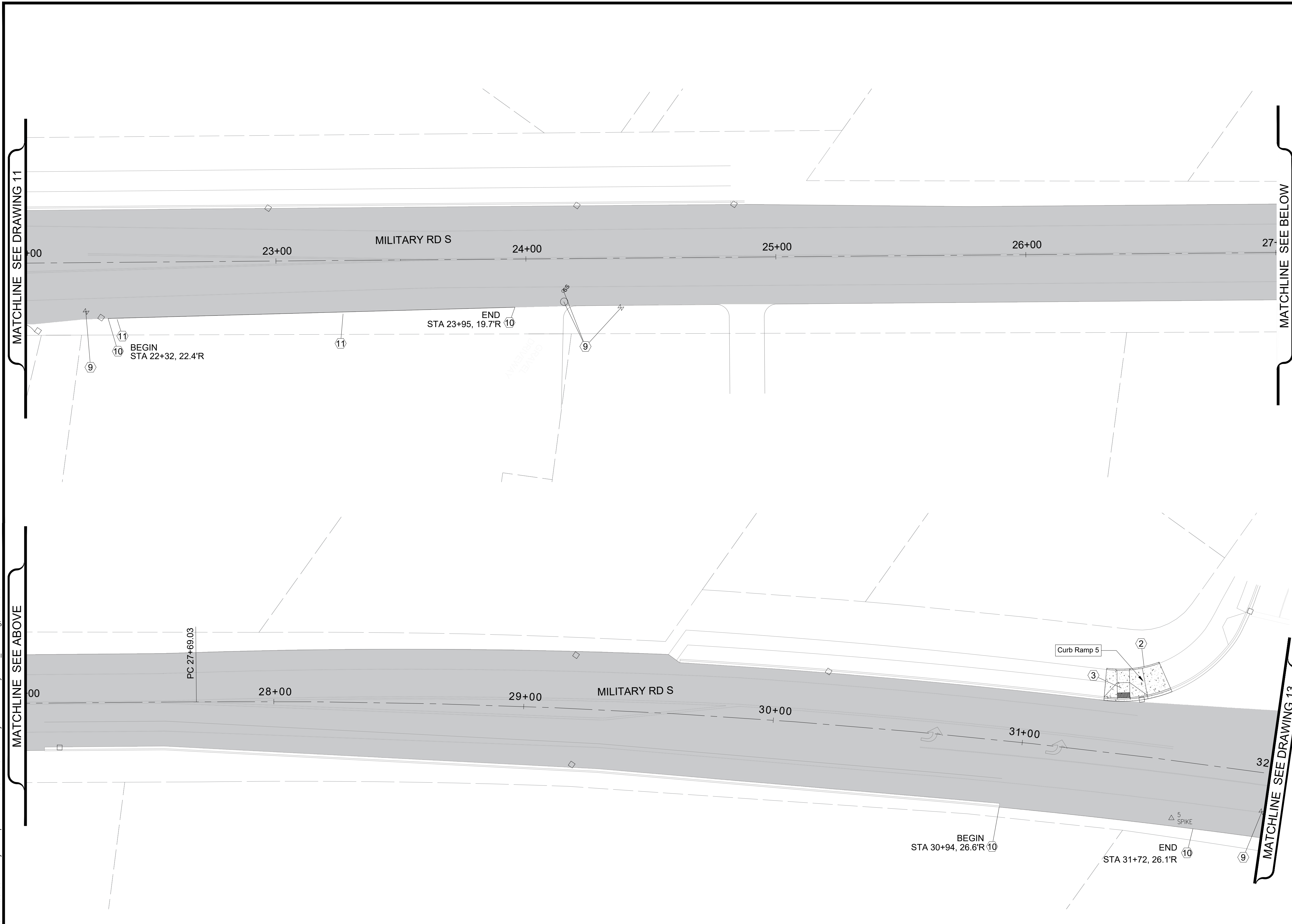
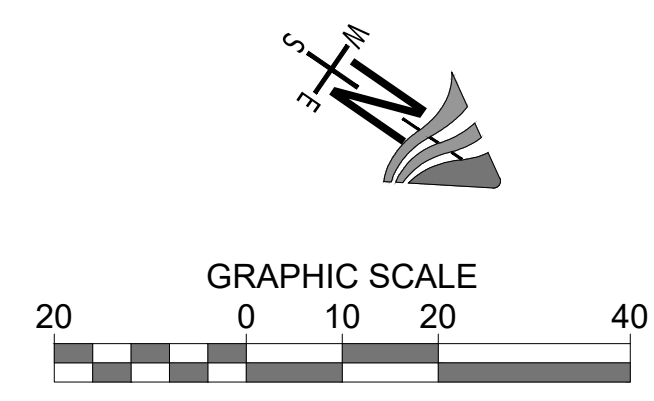
**MILITARY RD S PRESERVATION PROJECT**

**ROADWAY PLAN**  
 STA 12+00 - 22+00



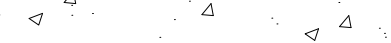
CITY PROJECT #:  
**36236**

SHEET  
**RDWY 1**

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**LEGEND**

-  CEMENT CONC. CURB AND GUTTER PER CFW STD. DETAIL 3-04
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- 10 THICKENED EDGE
- 11 MAINTENANCE ROCK FOR SHOULDER RECONSTRUCTION

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REGISTERED PROFESSIONAL ENGINEER  
13-NOV-2023

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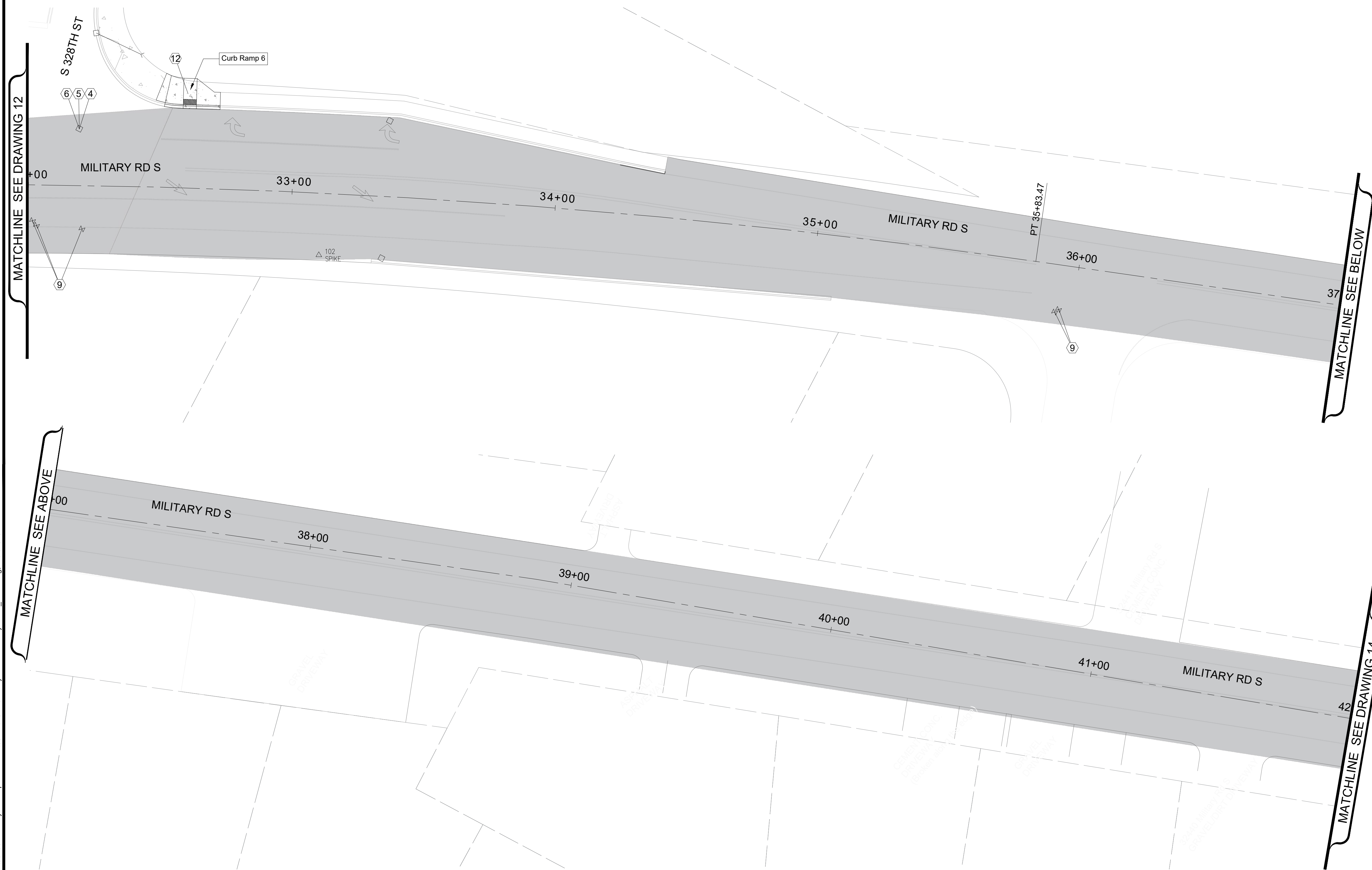
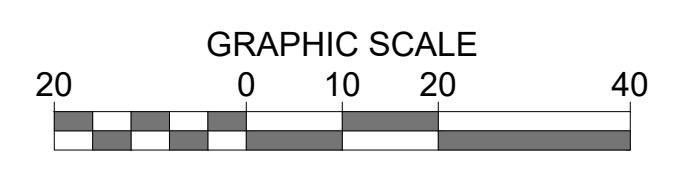
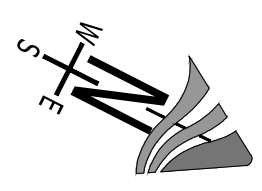
**ROADWAY PLAN**  
STA 22+00-32+00

CITY PROJECT #:  
**36236**



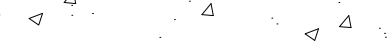
SHEET  
**RDWY 2**

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**LEGEND**

-  CEMENT CONC. CURB AND GUTTER PER CFW STD. DETAIL 3-04
-  HMA CL. 1/2 IN PG. 58H-22
-  CEMENT CONC. SIDEWALK PER CFW STD. DETAIL 3-12

**CONSTRUCTION NOTES**

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- 8 ADJUST MONUMENT CASE AND COVER
- 9 TO BE ADJUST BY OTHER
- 10 THICKENED EDGE
- 11 MAINTENANCE ROCK FOR SHOULDER RECONSTRUCTION
- 12 CEMENT CONC. PARALLEL CURB RAMP

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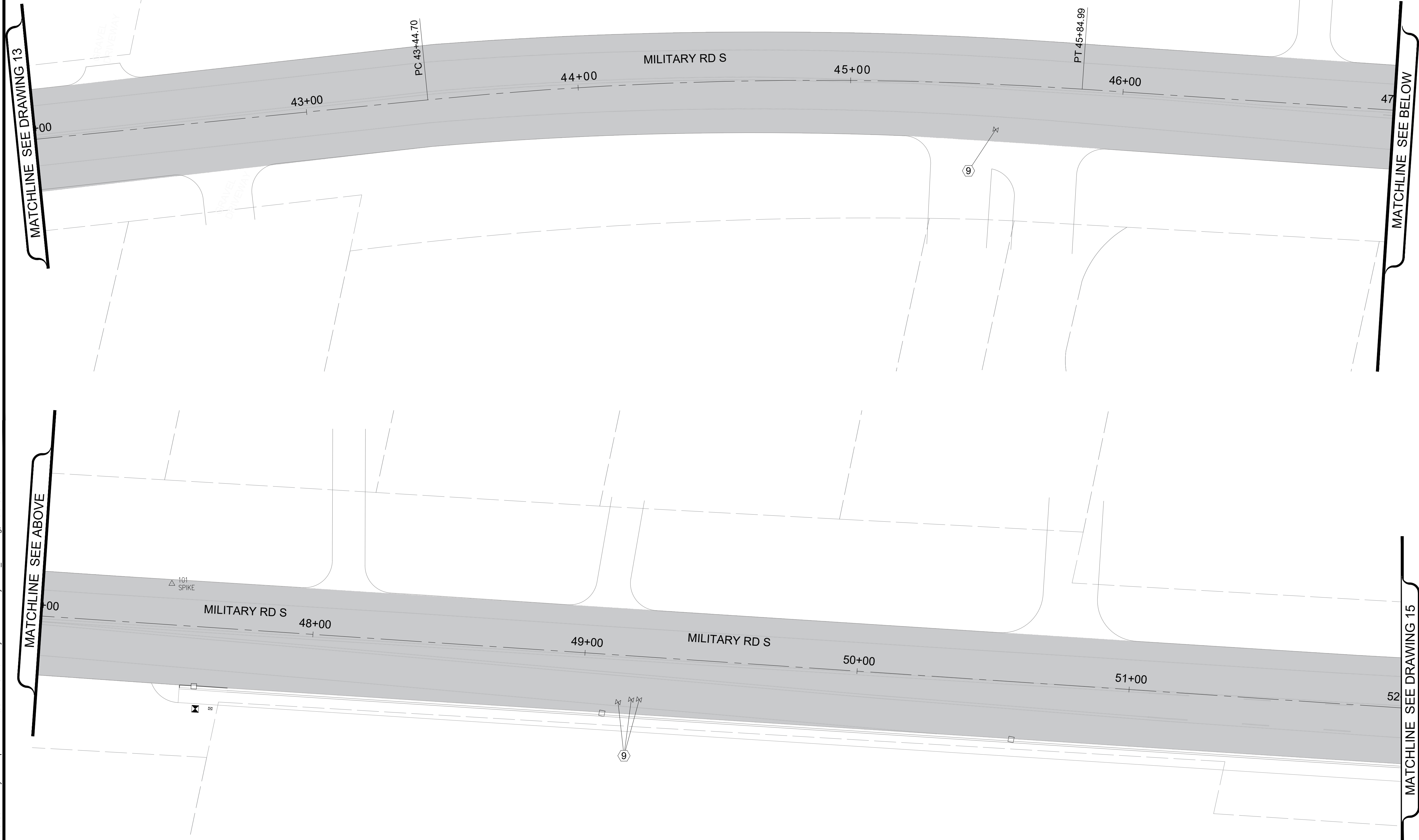
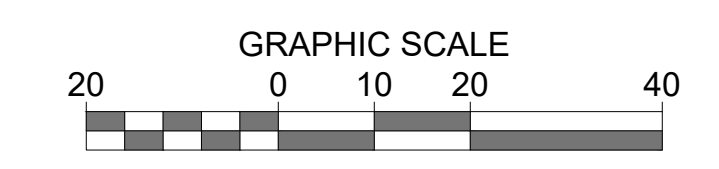
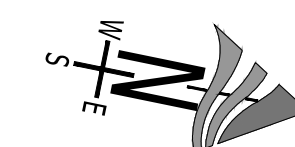
**MILITARY RD S PRESERVATION PROJECT**

**ROADWAY PLAN**  
STA 32+00- 42+00

CITY PROJECT #:  
**36236**

SHEET  
**RDWY 3**

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**LEGEND**

- CEMENT CONC. CURB AND GUTTER PER CFW STD. DETAIL 3-04
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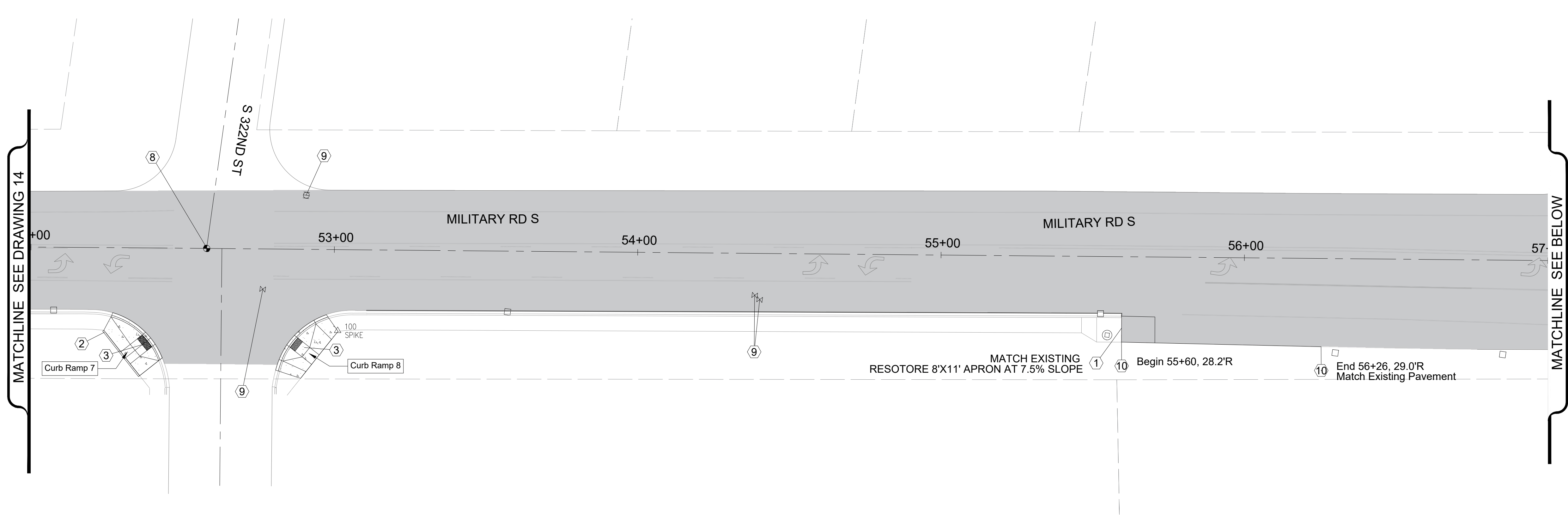
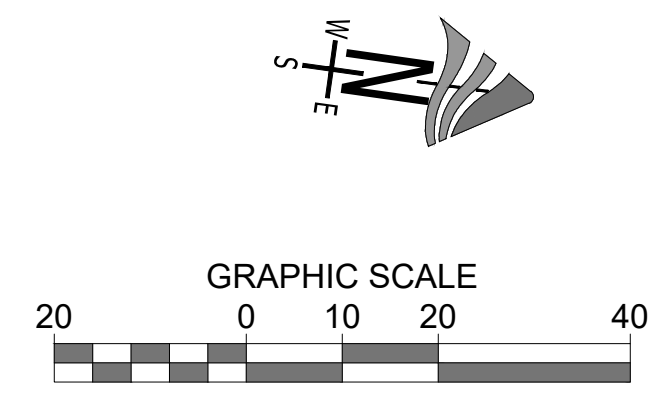
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 STA 42+00- 52+00

CITY PROJECT #:  
**36236**



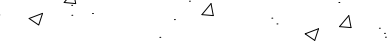
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**RDWY 4**

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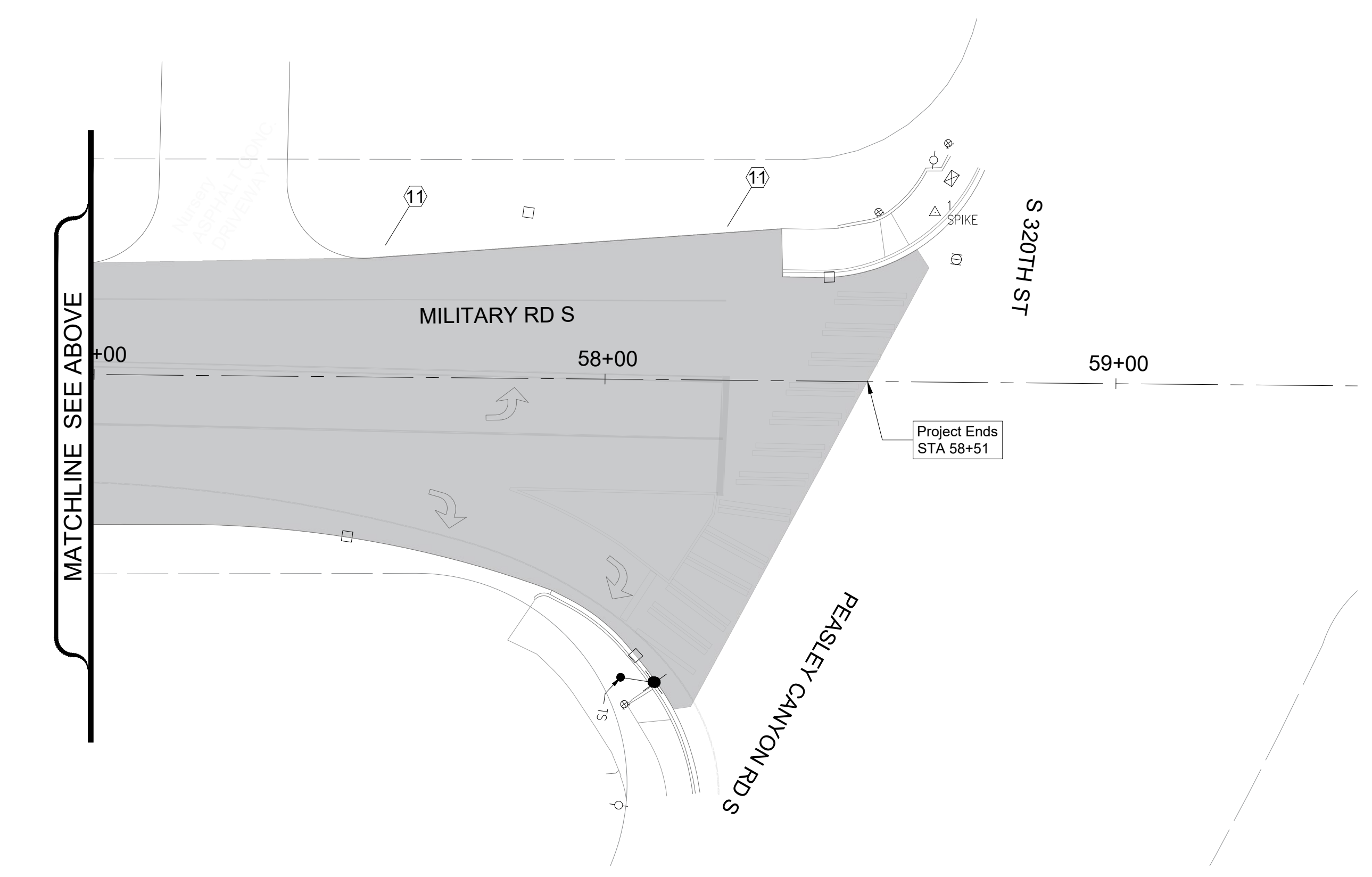


**LEGEND**

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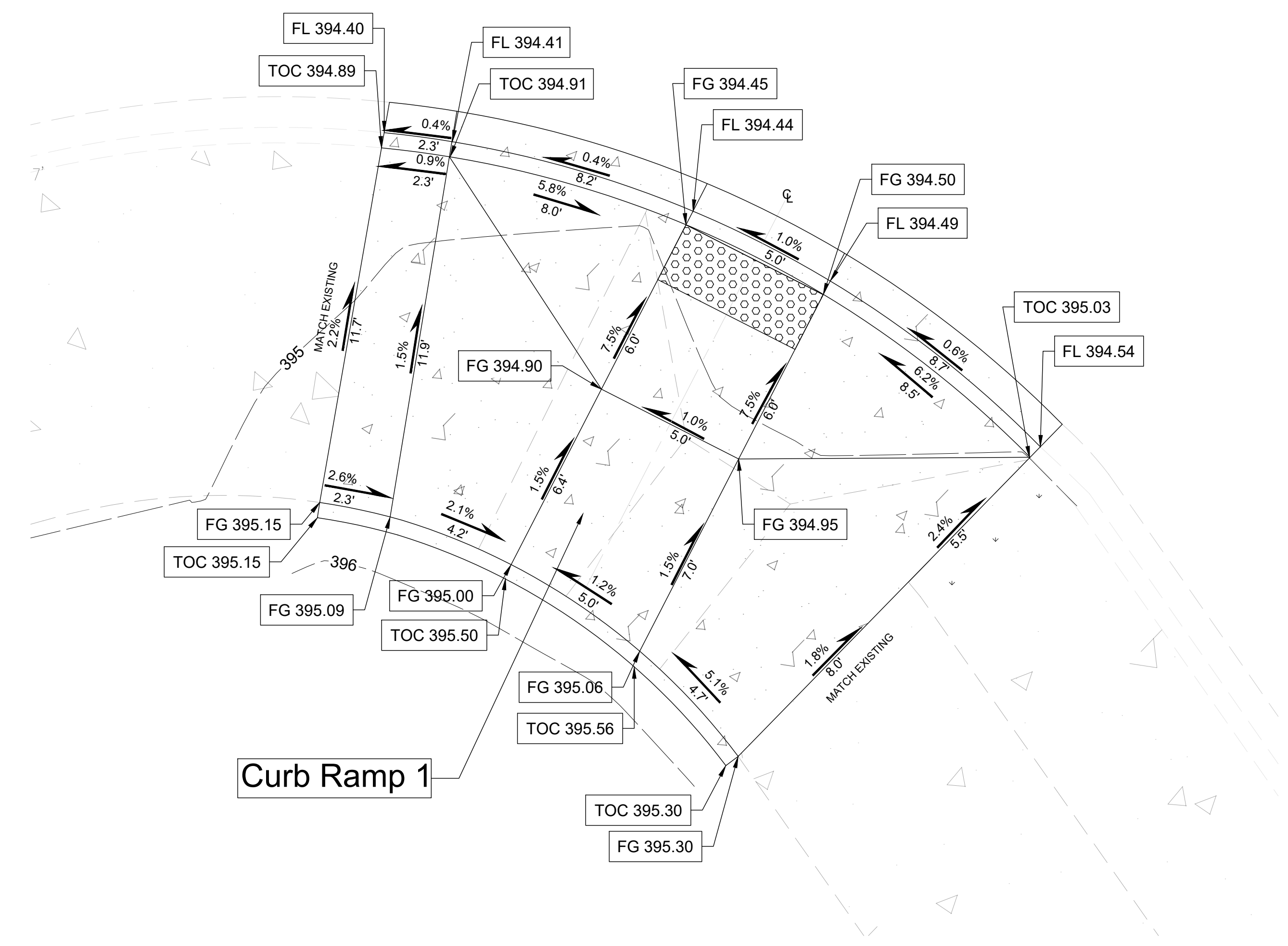
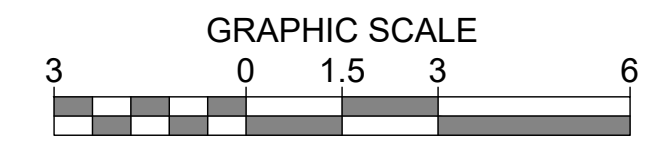
**MILITARY RD S PRESERVATION PROJECT**

**ROADWAY PLAN**  
 STA 52+00 - 59+00

CITY PROJECT #:  
**36236**

SHEET  
**RDWY 5**

15 OF 41



1 MILITARY ROAD S STA: 15+07.23, 26.67' LT (CENTER OF CURB RAMP, FACE OF CURB)  
SCALE: 1"=3'

FL = GUTTER FLOW LINE  
TOC = TOP OF CURB  
FG = FINISH GRADE

**CURB RAMP NOTES**

1. SLOPES SHOWN IN PLAN VIEW, RAMP LAYOUT AND RAMP LENGTH FOR REFERENCE ONLY. FIELD VERIFY EXISTING CONDITIONS AND CONSTRUCT CURB RAMP TO MEET ADA REQUIREMENTS.
2. DO NOT PLACE GRATINGS, JUNCTION BOXES, ACCESS COVERS, OR OTHER APPURTENANCES IN FRONT OF THE CURB RAMP OR ANY PART OF THE CURB RAMP OR LANDING.
3. SEE CONTRACT PLANS FOR THE CURB DESIGN SPECIFIED. SEE WSDOT STD PLAN F-10.12-04 FOR DEPRESSED CURB SECTION AND CEMENT CONCRETE PEDESTRIAN CURB DETAILS. SEE CFW STD DET 3-4 FOR CURB AND GUTTER AND CEMENT CONCRETE BARRIER CURB DETAILS.
4. INSTALL DETECTABLE WARNING SURFACE PER WSDOT STD PLAN F-45.10-04.
5. CURB RAMP, LANDING, AND FLARES SHALL RECEIVE BROOM FINISH. SEE STANDARD SPECIFICATIONS 8-14.

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DESIGNED: J.HUYNH  
REVIEWED: C.MULLEN  
APPROVED: C.MULLEN

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NO.	DATE	REVISION

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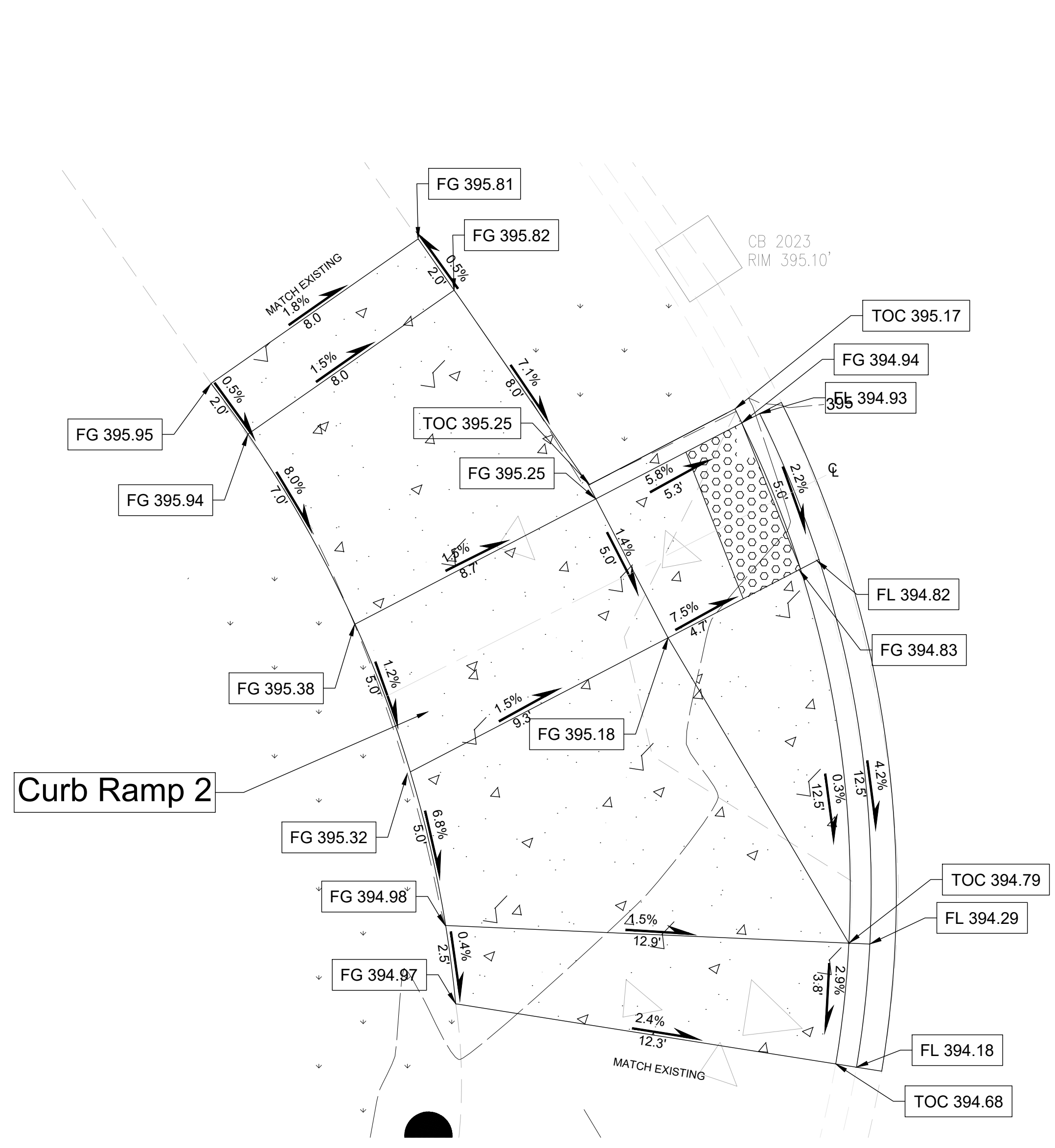
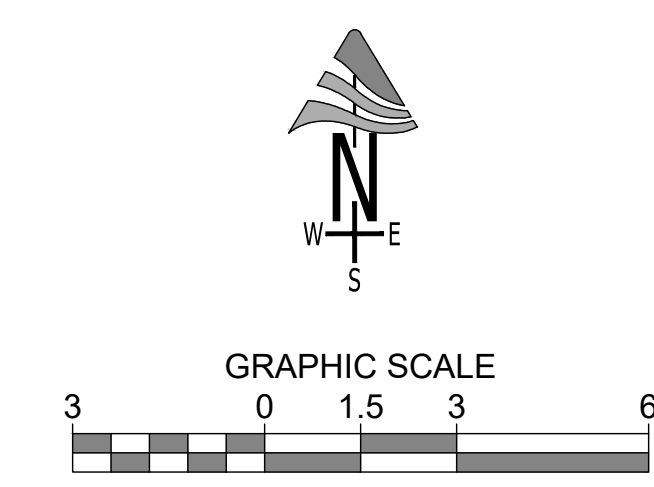
**CURB RAMP 1**

CITY PROJECT #:  
**36236**

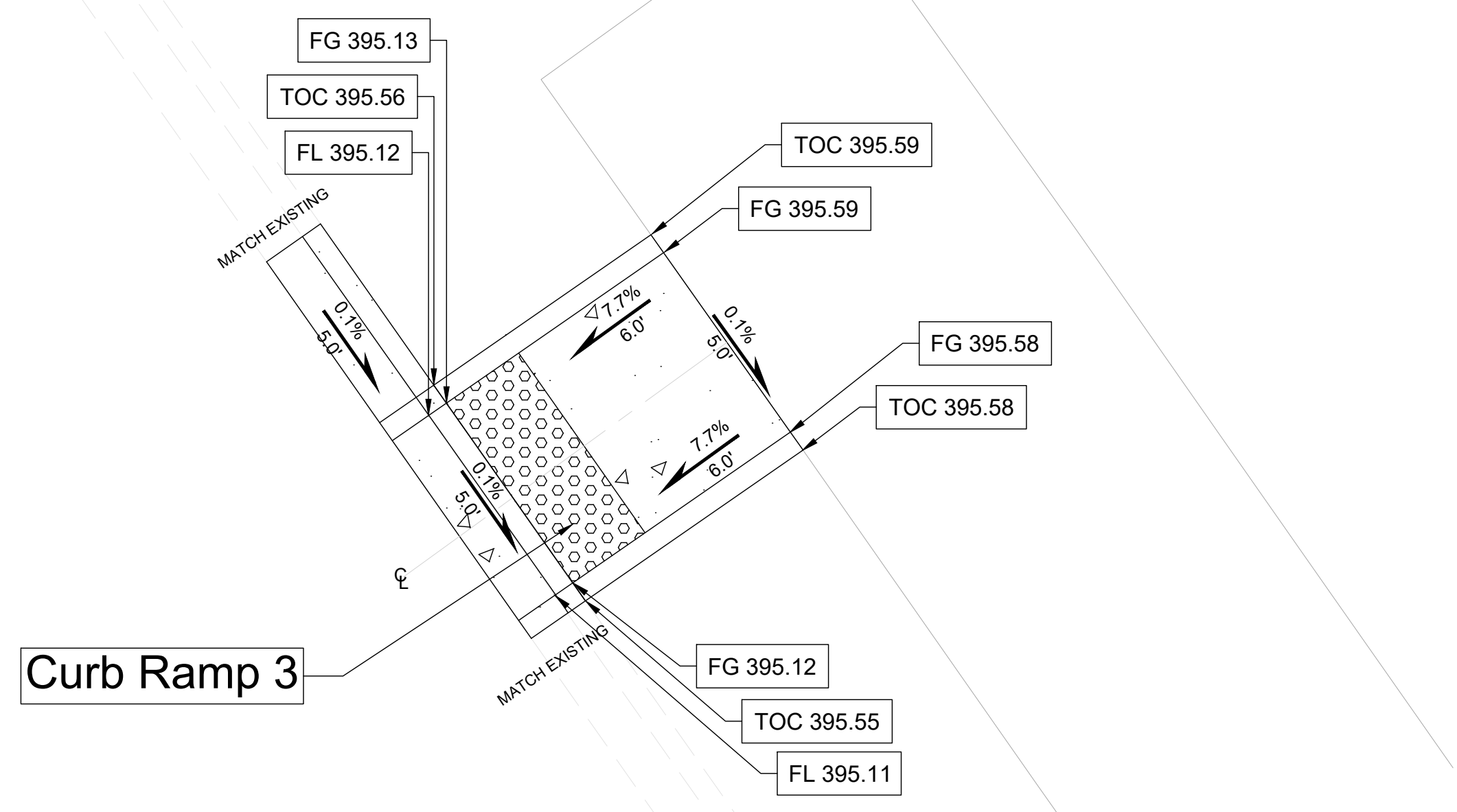
SHEET  
**CR 1**

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2 MILITARY ROAD S STA: 15+88.16, 35.55' LT (CENTER OF CURB RAMP, FACE OF CURB)  
SCALE: 1"=3'



3 MILITARY ROAD S STA: 15+87.83, 22.50' RT (CENTER OF CURB RAMP, FACE OF CURB)  
SCALE: 1"=3'

FL = GUTTER FLOW LINE  
TOC = TOP OF CURB  
FG = FINISH GRADE

**CURB RAMP NOTES**

- SLOPES SHOWN IN PLAN VIEW, RAMP LAYOUT AND RAMP LENGTH FOR REFERENCE ONLY. FIELD VERIFY EXISTING CONDITIONS AND CONSTRUCT CURB RAMPS TO MEET ADA REQUIREMENTS.
- DO NOT PLACE GRATINGS, JUNCTION BOXES, ACCESS COVERS, OR OTHER APPURTENANCES IN FRONT OF THE CURB RAMP OR ANY PART OF THE CURB RAMP OR LANDING.
- SEE CONTRACT PLANS FOR THE CURB DESIGN SPECIFIED. SEE WSDOT STD PLAN F-10.12-04 FOR DEPRESSED CURB SECTION AND CEMENT CONCRETE PEDESTRIAN CURB DETAILS. SEE CFW STD DET 3-4 FOR CURB AND GUTTER AND CEMENT CONCRETE BARRIER CURB DETAILS.
- INSTALL DETECTABLE WARNING SURFACE PER WSDOT STD PLAN F-45.10-04.
- CURB RAMP, LANDING, AND FLARES SHALL RECEIVE BROOM FINISH. SEE STANDARD SPECIFICATIONS 8-14.

K:\engineering\division\PROJECTS\ACTIVE\36236 - military road s preservation\03 PE\ACAD\Curb Ramps Design\_NEW.dwg, 10/31/2023

DRAFTED: S.ALIZAI  
DESIGNED: J.HUYNH  
REVIEWED: C.MULLEN  
APPROVED: C.MULLEN

DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

**MILITARY RD S PRESERVATION PROJECT**

**CURB RAMP 2 & 3**

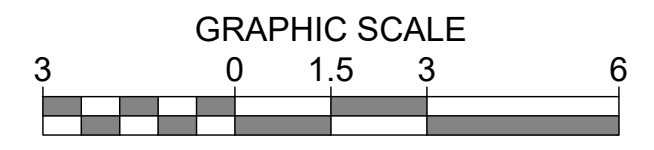
CITY PROJECT #:  
**36236**

SHEET  
**CR 2, 3**

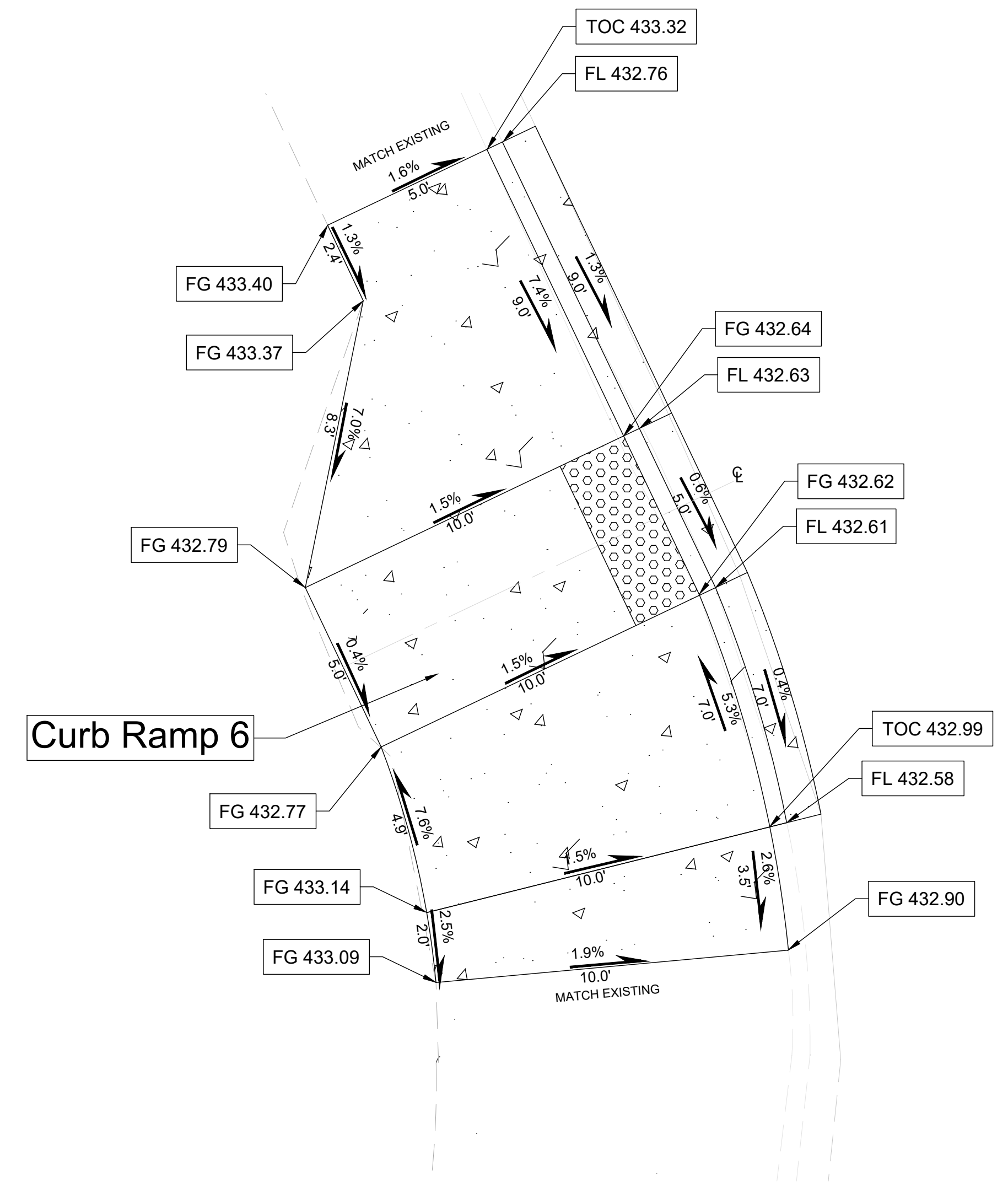
17 OF 41



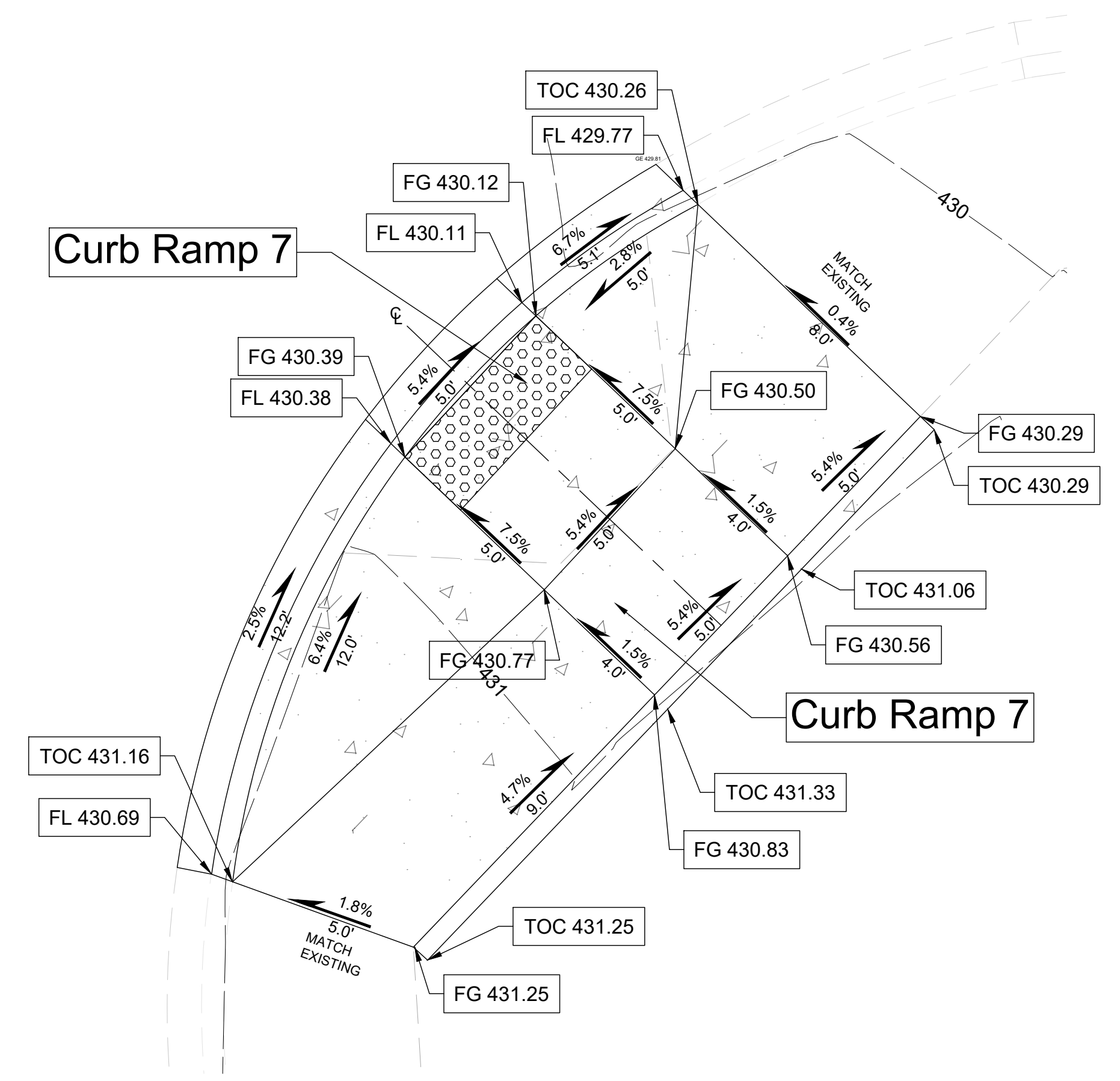




7 MILITARY ROAD S STA: 52+38.60, 30.57' RT (CENTER OF CURB RAMP, FACE OF CURB)  
SCALE: 1"=3'



6 MILITARY ROAD S STA: 32+60.25, 29.95' LT (CENTER OF CURB RAMP, FACE OF CURB)  
SCALE: 1"=3'



FL = GUTTER FLOW LINE  
TOC = TOP OF CURB  
FG = FINISH GRADE

**CURB RAMP NOTES**

- SLOPES SHOWN IN PLAN VIEW, RAMP LAYOUT AND RAMP LENGTH FOR REFERENCE ONLY. FIELD VERIFY EXISTING CONDITIONS AND CONSTRUCT CURB RAMPS TO MEET ADA REQUIREMENTS.
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DESIGNED: J.HUYNH  
REVIEWED: C.MULLEN  
APPROVED: C.MULLEN

CHRISTINE J. MULLEN  
REGISTERED PROFESSIONAL ENGINEER  
13-NW-2023

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NO.	DATE	REVISION

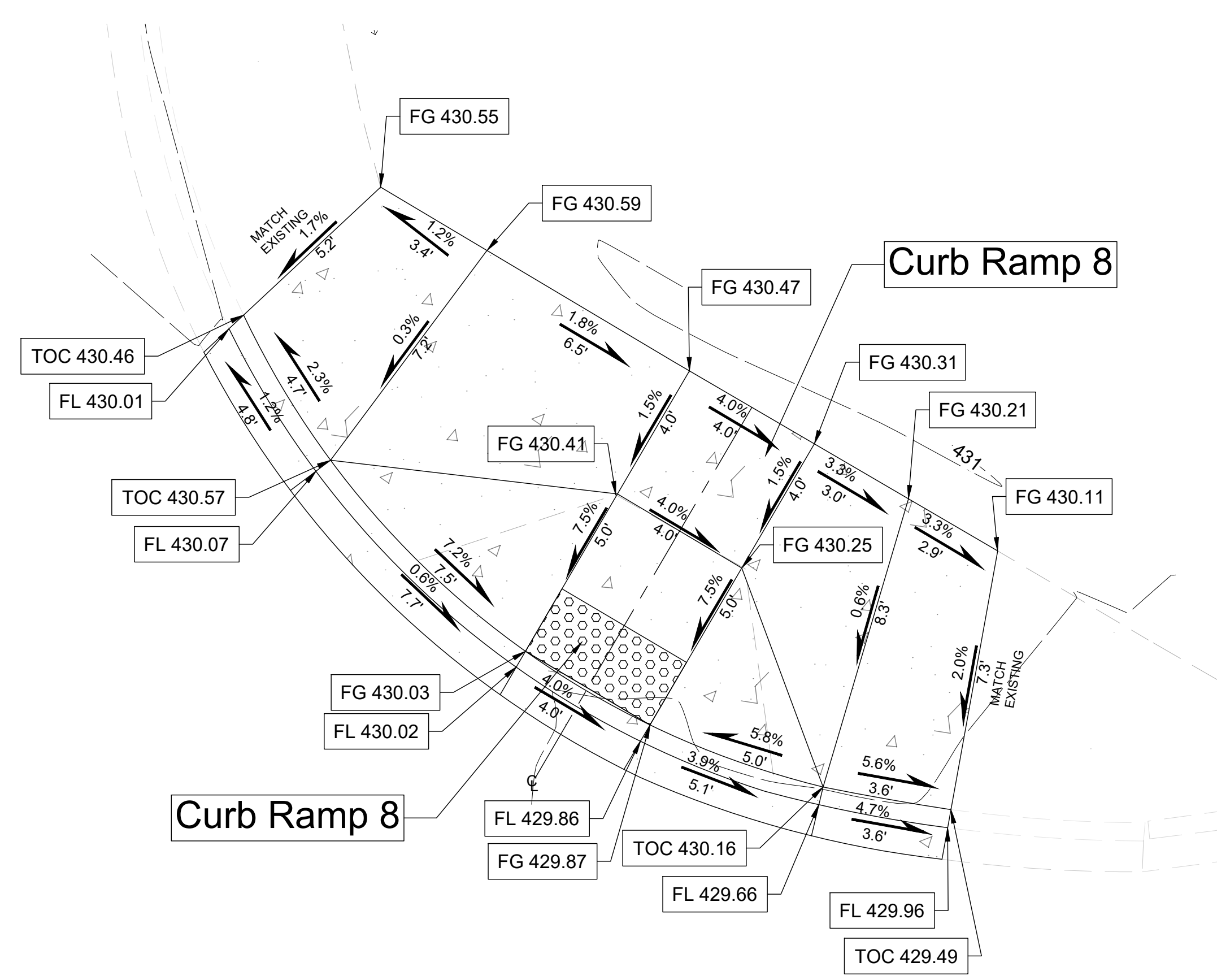
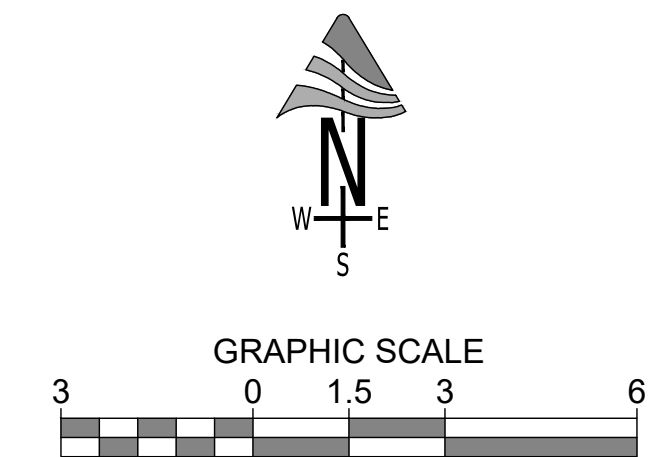
**MILITARY RD S PRESERVATION PROJECT**

**CURB RAMP 6 & 7**

CITY PROJECT #:  
**36236**

SHEET  
**CR 6, 7**

19 OF 41



8 MILITARY ROAD S STA: 52+86.91, 30.74' RT (CENTER OF CURB RAMP, FACE OF CURB)  
SCALE: 1"=3'

FL = GUTTER FLOW LINE  
TOC = TOP OF CURB  
FG = FINISH GRADE

**CURB RAMP NOTES**

1. SLOPES SHOWN IN PLAN VIEW, RAMP LAYOUT AND RAMP LENGTH FOR REFERENCE ONLY. FIELD VERIFY EXISTING CONDITIONS AND CONSTRUCT CURB RAMPS TO MEET ADA REQUIREMENTS.
2. DO NOT PLACE GRATINGS, JUNCTION BOXES, ACCESS COVERS, OR OTHER APPURTENANCES IN FRONT OF THE CURB RAMP OR ANY PART OF THE CURB RAMP OR LANDING.
3. SEE CONTRACT PLANS FOR THE CURB DESIGN SPECIFIED. SEE WSDOT STD PLAN F-10.12-04 FOR DEPRESSED CURB SECTION AND CEMENT CONCRETE PEDESTRIAN CURB DETAILS. SEE CFW STD DET 3-4 FOR CURB AND GUTTER AND CEMENT CONCRETE BARRIER CURB DETAILS.
4. INSTALL DETECTABLE WARNING SURFACE PER WSDOT STD PLAN F-45.10-04.
5. CURB RAMP, LANDING, AND FLARES SHALL RECEIVE BROOM FINISH. SEE STANDARD SPECIFICATIONS 8-14.

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DESIGNED: J.HUYNH  
REVIEWED: C.MULLEN  
APPROVED: C.MULLEN

DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

**MILITARY RD S PRESERVATION PROJECT**

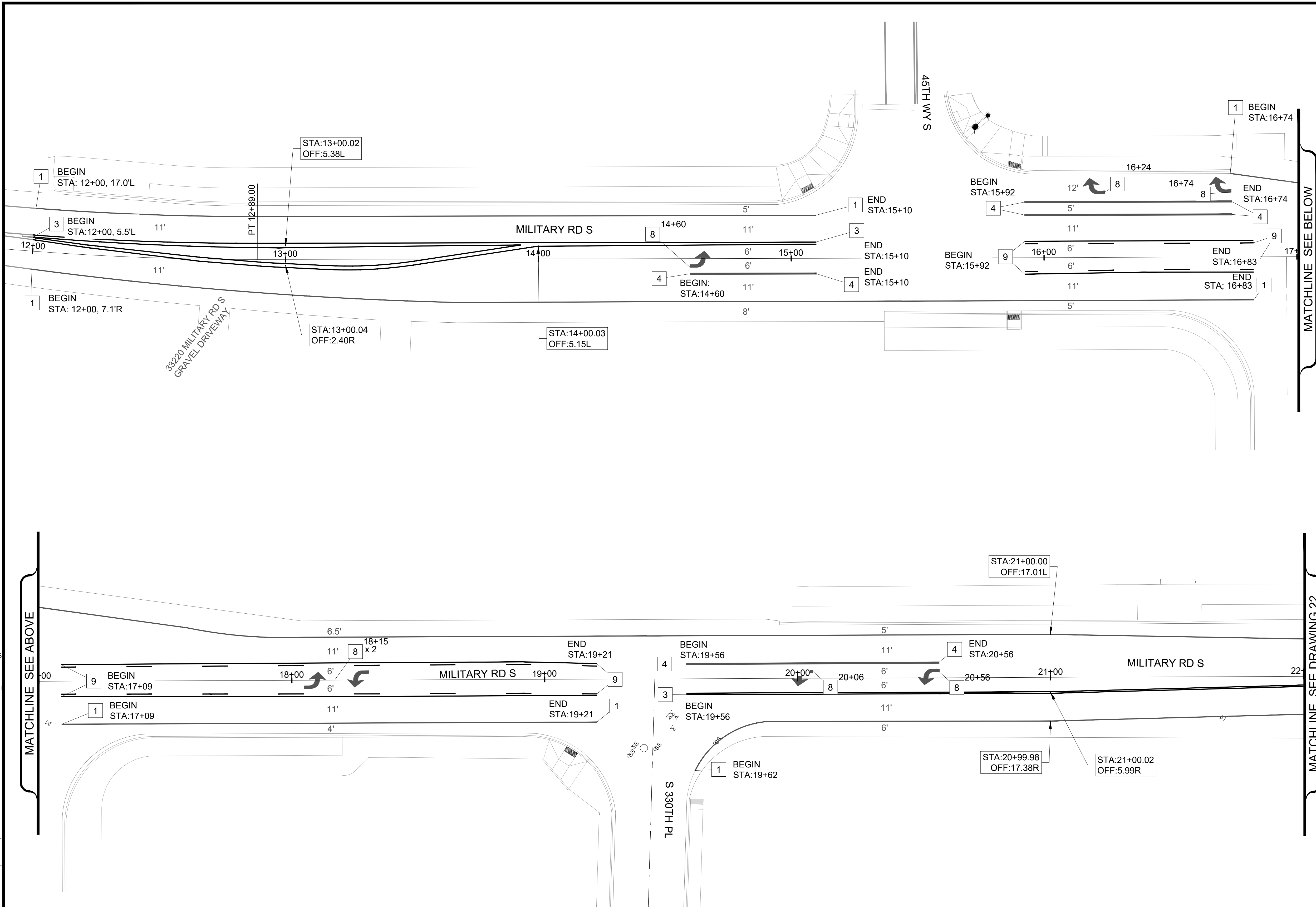
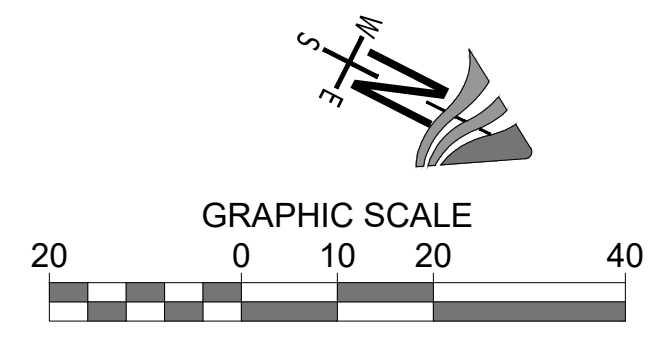
**CURB RAMP 8**

CITY PROJECT #:  
**36236**

SHEET  
**CR 8**

20 OF 41





- PAVEMENT MARKING CONSTRUCTION NOTES:
- 1 4" PLASTIC EDGE LINE (MATERIAL TYPE D)
  - 2 4" PROFILED PLASTIC LANE LINE (MATERIAL TYPE D)
  - 3 4" PROFILED PLASTIC DOUBLE YELLOW CENTERLINE (MATERIAL TYPE D)
  - 4 8" PROFILED PLASTIC WIDE LINE (MATERIAL TYPE D)
  - 5 PLASTIC STOP LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
  - 6 PLASTIC CROSSWALK LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
  - 7 PROFILED PLASTIC DOTTED WIDE LINE (MATERIAL TYPE D)
  - 8 PLASTIC TRAFFIC ARROW TYPE 2LS PER WSDOT STD. PLAN M-24.40-02
  - 9 4" PROFILED PLASTIC TWO-WAY LEFT TURN LINE (MATERIAL TYPE D)

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CHRISTINE J. MULLEN  
REGISTERED PROFESSIONAL ENGINEER  
13-NOV-2023

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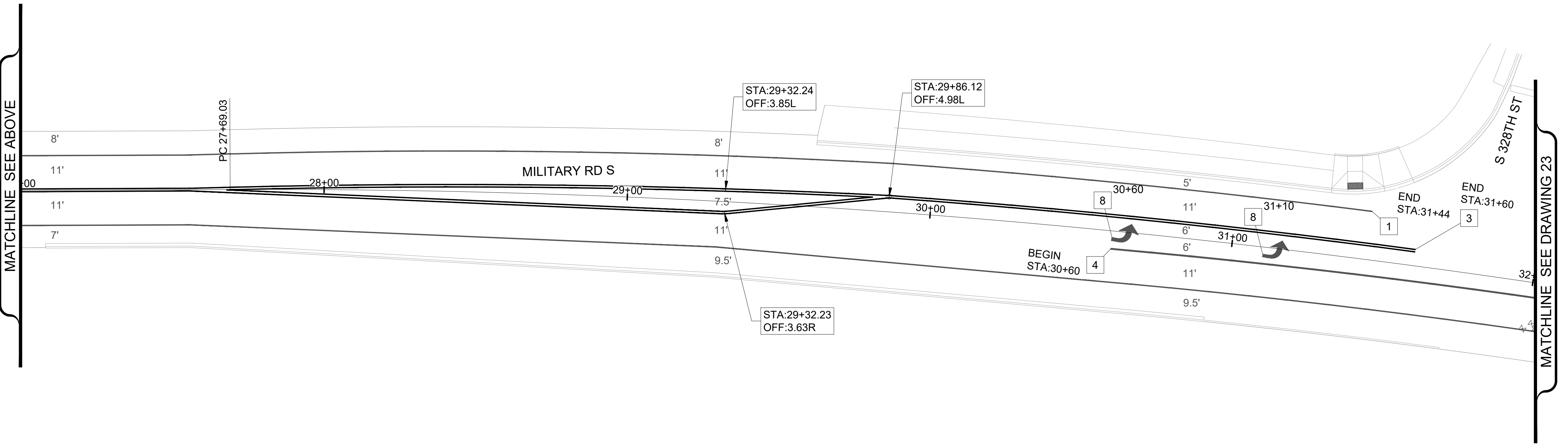
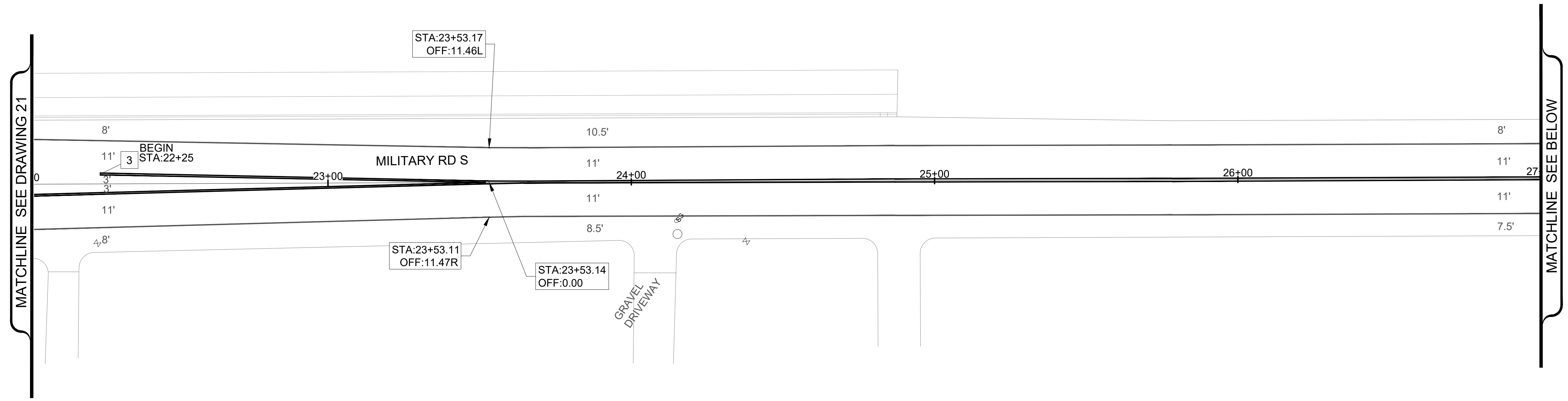
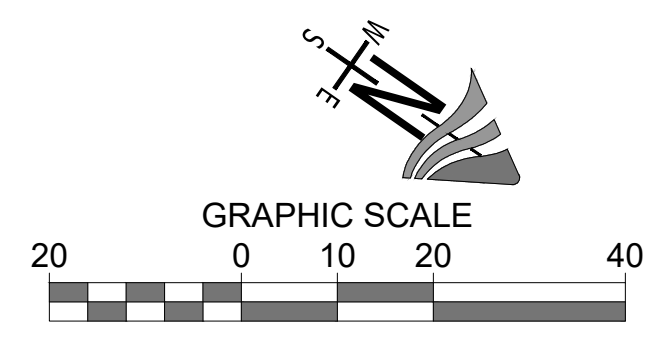
**MILITARY RD S PRESERVATION PROJECT**

**CHANNELIZATION PLAN**  
STA 12+00-STA 22+00

CITY PROJECT #:  
**36236**

SHEET  
**CHAN 1**

21 OF 41



PAVEMENT MARKING CONSTRUCTION NOTES:

- 1 4" PLASTIC EDGE LINE (MATERIAL TYPE D)
- 2 4" PROFILED PLASTIC LANE LINE (MATERIAL TYPE D)
- 3 4" PROFILED PLASTIC DOUBLE YELLOW CENTERLINE (MATERIAL TYPE D)
- 4 8" PROFILED PLASTIC WIDE LINE (MATERIAL TYPE D)
- 5 PLASTIC STOP LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
- 6 PLASTIC CROSSWALK LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
- 7 PROFILED PLASTIC DOTTED WIDE LINE (MATERIAL TYPE D)
- 8 PLASTIC TRAFFIC ARROW TYPE 2LS PER WSDOT STD. PLAN M-24.40-02
- 9 4" PROFILED PLASTIC TWO-WAY LEFT TURN LINE (MATERIAL TYPE D)

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**MILITARY RD S PRESERVATION PROJECT**

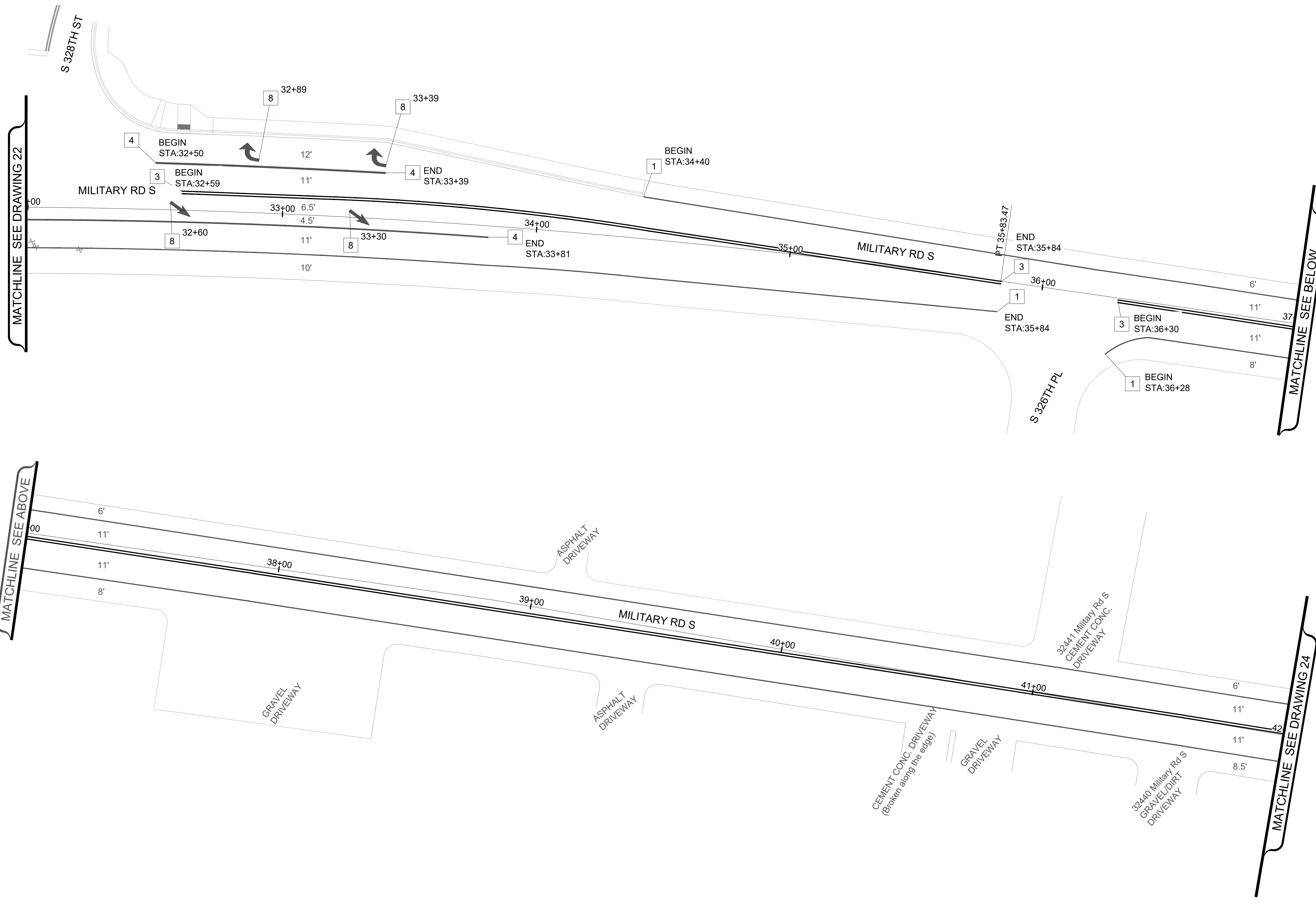
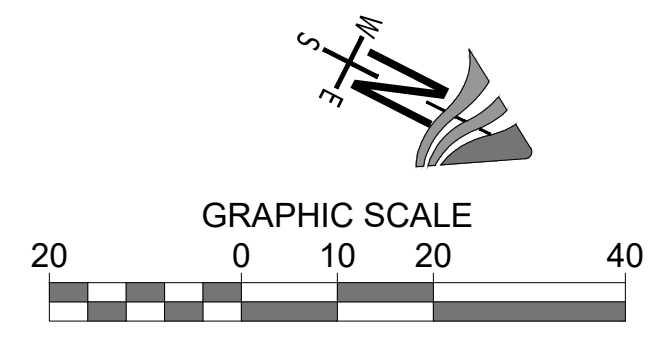
**CHANNELIZATION PLAN**  
STA 22+00-STA 32+00

CITY PROJECT #:  
**36236**

SHEET  
**CHAN 2**

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PAVEMENT MARKING CONSTRUCTION NOTES:

- 1 4" PLASTIC EDGE LINE (MATERIAL TYPE D)
- 2 4" PROFILED PLASTIC LANE LINE (MATERIAL TYPE D)
- 3 4" PROFILED PLASTIC DOUBLE YELLOW CENTERLINE (MATERIAL TYPE D)
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- 9 4" PROFILED PLASTIC TWO-WAY LEFT TURN LINE (MATERIAL TYPE D)

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CHRISTINE J. MULLEN  
REGISTERED PROFESSIONAL ENGINEER  
13-NW-2023

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NO.	DATE	REVISION

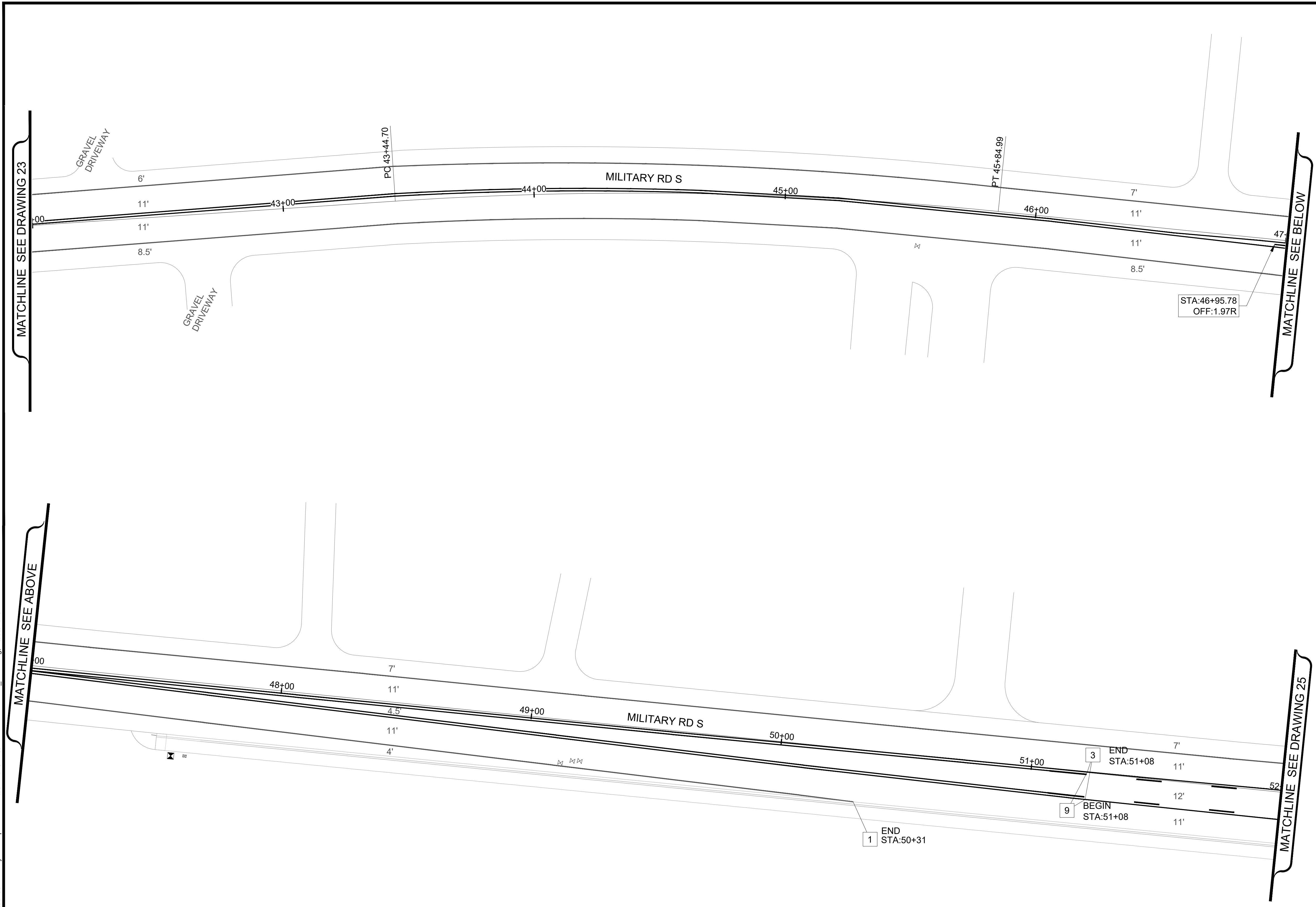
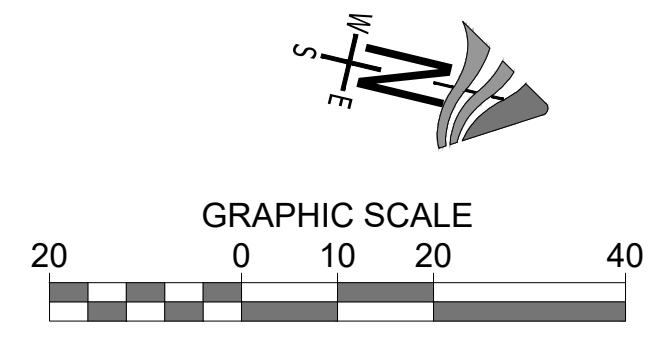
**MILITARY RD S PRESERVATION PROJECT**

**CHANNELIZATION PLAN**  
STA 32+00-STA 42+00

CITY PROJECT #:  
**36236**

SHEET  
**CHAN 3**

23 OF 41



- PAVEMENT MARKING CONSTRUCTION NOTES:
- 1 4" PLASTIC EDGE LINE (MATERIAL TYPE D)
  - 2 4" PROFILED PLASTIC LANE LINE (MATERIAL TYPE D)
  - 3 4" PROFILED PLASTIC DOUBLE YELLOW CENTERLINE (MATERIAL TYPE D)
  - 4 8" PROFILED PLASTIC WIDE LINE (MATERIAL TYPE D)
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  - 8 PLASTIC TRAFFIC ARROW TYPE 2LS PER WSDOT STD. PLAN M-24.40-02
  - 9 4" PROFILED PLASTIC TWO-WAY LEFT TURN LINE (MATERIAL TYPE D)

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DESIGNED: J.HUYNH  
REVIEWED: C.MULLEN  
APPROVED: C.MULLEN

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NO.	DATE	REVISION

**MILITARY RD S PRESERVATION PROJECT**

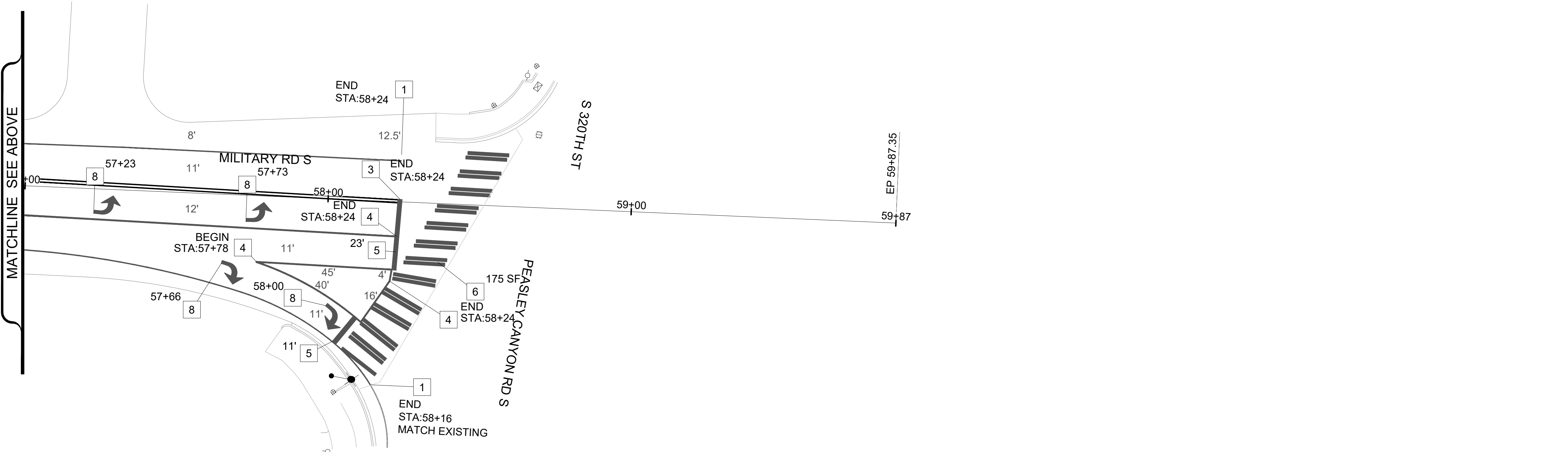
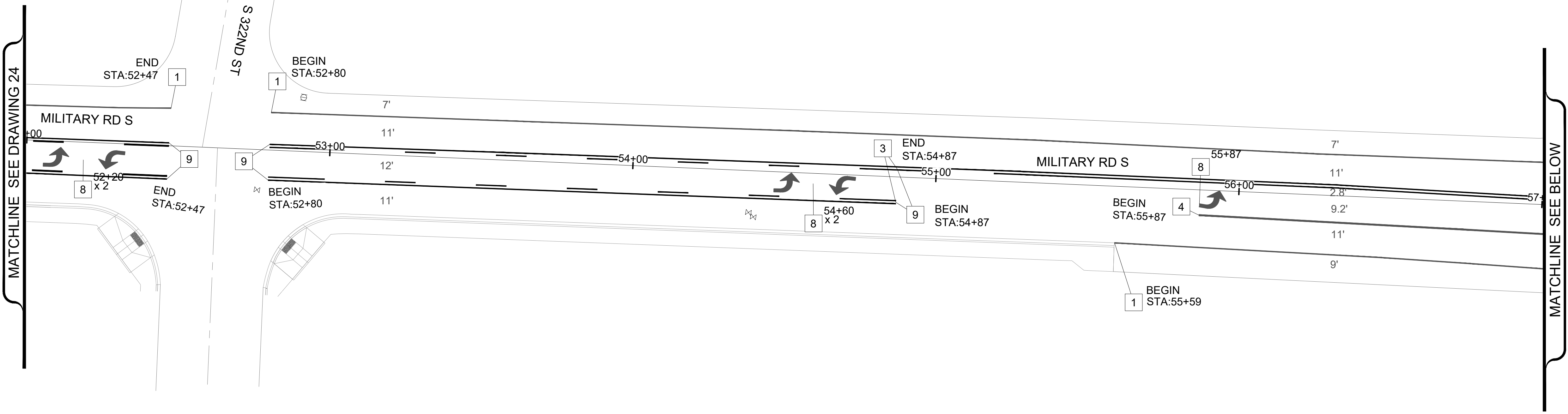
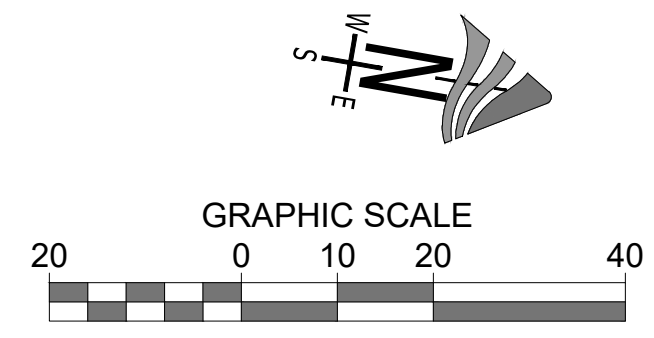
**CHANNELIZATION PLAN**  
STA 42+00-STA 52+00

CITY PROJECT #:  
**36236**

SHEET  
**CHAN 4**

24 OF 41





PAVEMENT MARKING CONSTRUCTION NOTES:

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DRAFTED: S.ALIZAI  
 DESIGNED: J.HUYNH  
 REVIEWED: C.MULLEN  
 APPROVED: C.MULLEN

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**MILITARY RD S PRESERVATION PROJECT**  
**CHANNELIZATION PLAN**  
 STA 52+00-STA 58+00

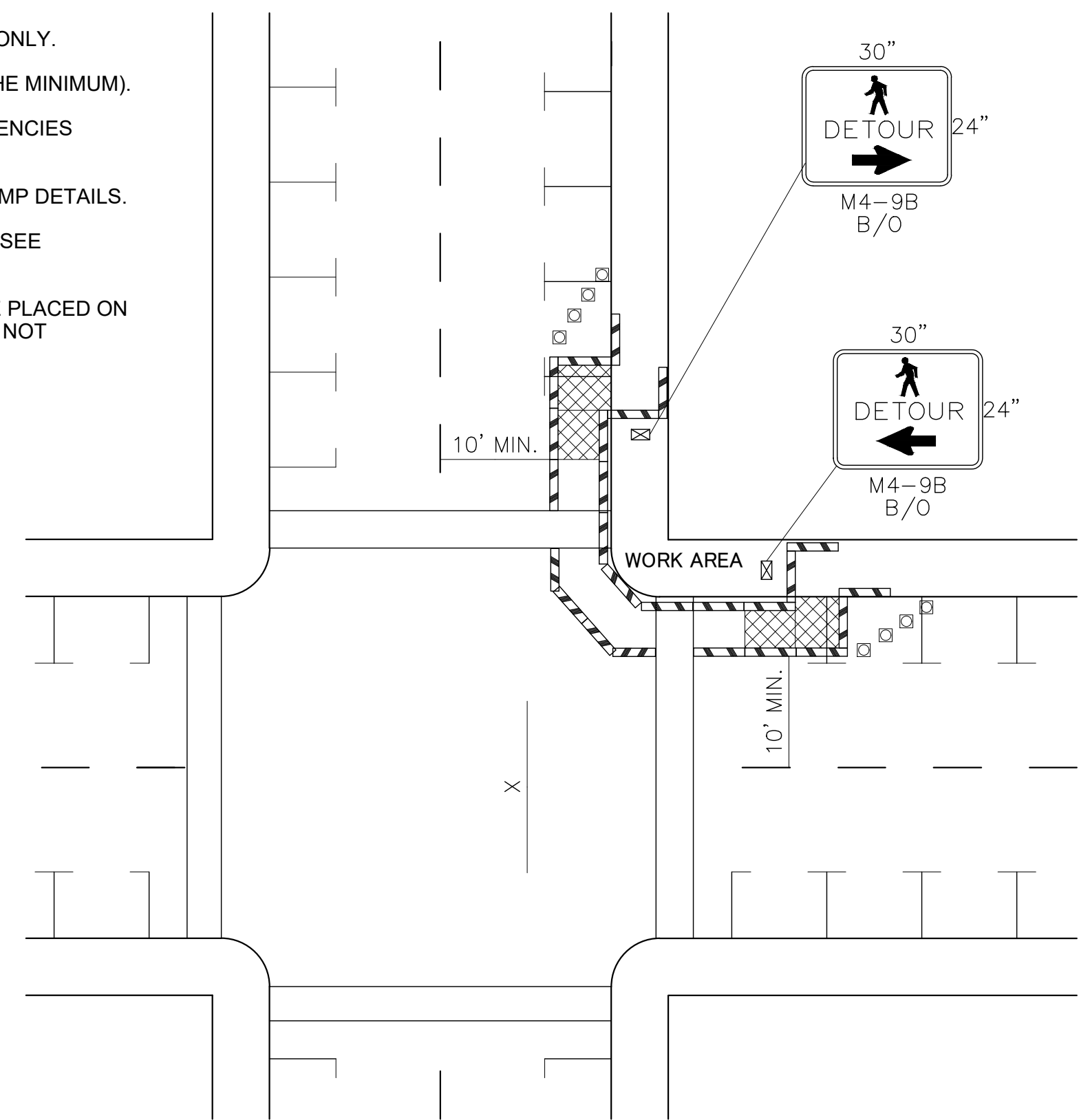
CITY PROJECT #:  
**36236**  
 SHEET  
**CHAN 5**  
 25 OF 41

**NO PARKING** R8-3  
24" x 30"  
R/W

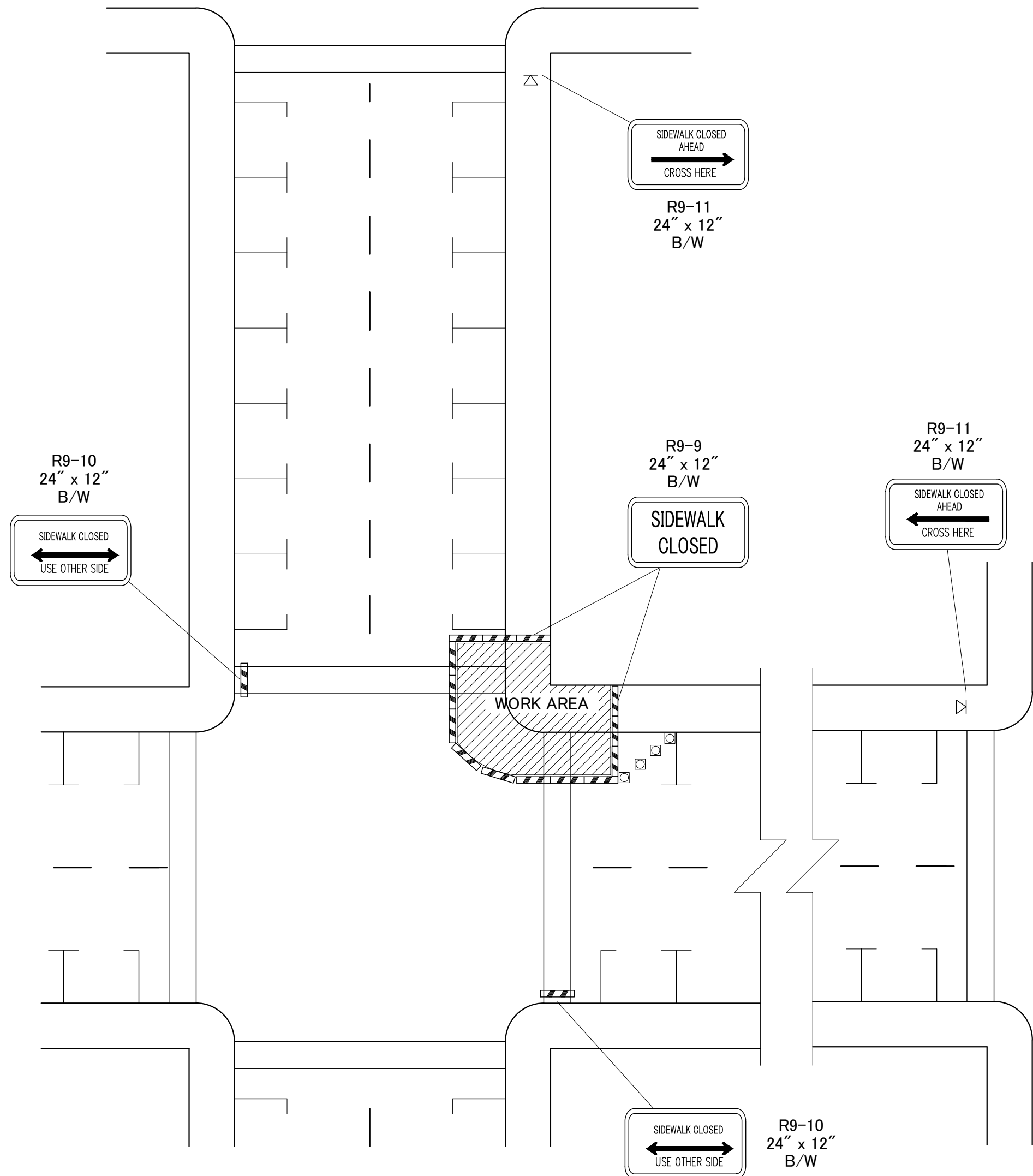
INSTALL ON TYPE 2 BARRICADES THROUGHOUT THE WORK AREA  
24 HOURS PRIOR TO IMPLEMENTING TRAFFIC CONTROL.  
PRIOR NOTIFICATION OF LOCAL LAW ENFORCEMENT REQUIRED.

**NOTES**

1. CONTROLS SHOWN ARE FOR PEDESTRIAN TRAFFIC ONLY.
2. A 60" PATH WIDTH SHOULD BE MAINTAINED (48" IS THE MINIMUM).
3. CONTACT AND COORDINATE IMPACTED TRANSIT AGENCIES PRIOR TO IMPLEMENTING ANY CLOSURES.
4. SEE SHEET TC-52 FOR TEMPORARY PEDESTRIAN RAMP DETAILS.
5. ADA PEDESTRIAN FACILITIES MUST BE MAINTAINED. SEE STANDARD SPECIFICATION 1-10.2(1)B.
6. TEMPORARY PEDESTRIAN PUSH BUTTONS SHALL BE PLACED ON THE DIVERTED PATH WHEN EXISTING BUTTONS ARE NOT ACCESSIBLE TO PEDESTRIANS.



SIDEWALK DIVERSION



SIDEWALK DETOUR

**INTERSECTION PEDESTRIAN TRAFFIC CONTROL**

NOT TO SCALE

**LEGEND**

- ⊠ TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- ▨ PEDESTRIAN CHANNELIZING DEVICES
- TEMPORARY PEDESTRIAN RAMP FOR SIDEWALKS

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**CHRISTINE J. MULLEN**  
REGISTERED PROFESSIONAL ENGINEER  
13-000-2023

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**MILITARY RD S PRESERVATION PROJECT**  
**INTERSECTION PEDESTRIAN TRAFFIC CONTROL**

CITY PROJECT #:  
**36236**  
SHEET  
**TCP 1**  
26 OF 41

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SIGN SPACING = X (1)		
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)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.  
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	-	-	-	-	-	-
10'	40	60	90	90	-	-	-	-	-	-

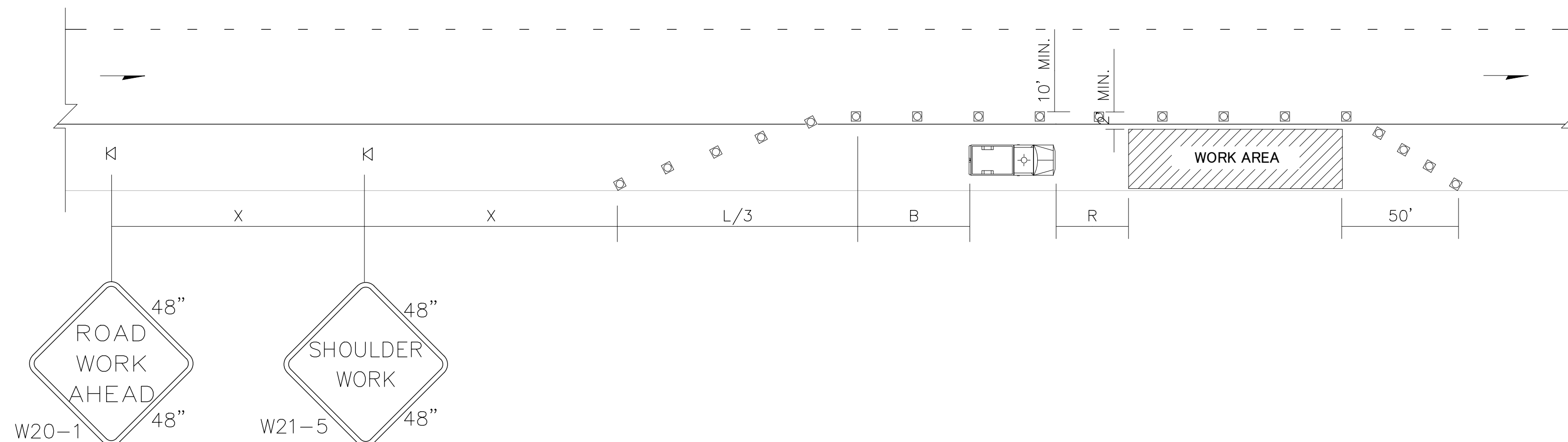
USE A 3 DEVICES TAPER FOR SHOULDERS LESS THEN 8'

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	

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



LEGEND	
K	TEMPORARY SIGN LOCATION
□	CHANNELIZING DEVICES
	PROTECTIVE VEHICLE

**SHOULDER CLOSURE – LOW SPEED**  
(40 MPH OR LESS)

NOT TO SCALE

**NOTES**

1. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT).
2. ALL SIGNS ARE BLACK ON ORANGE.

DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

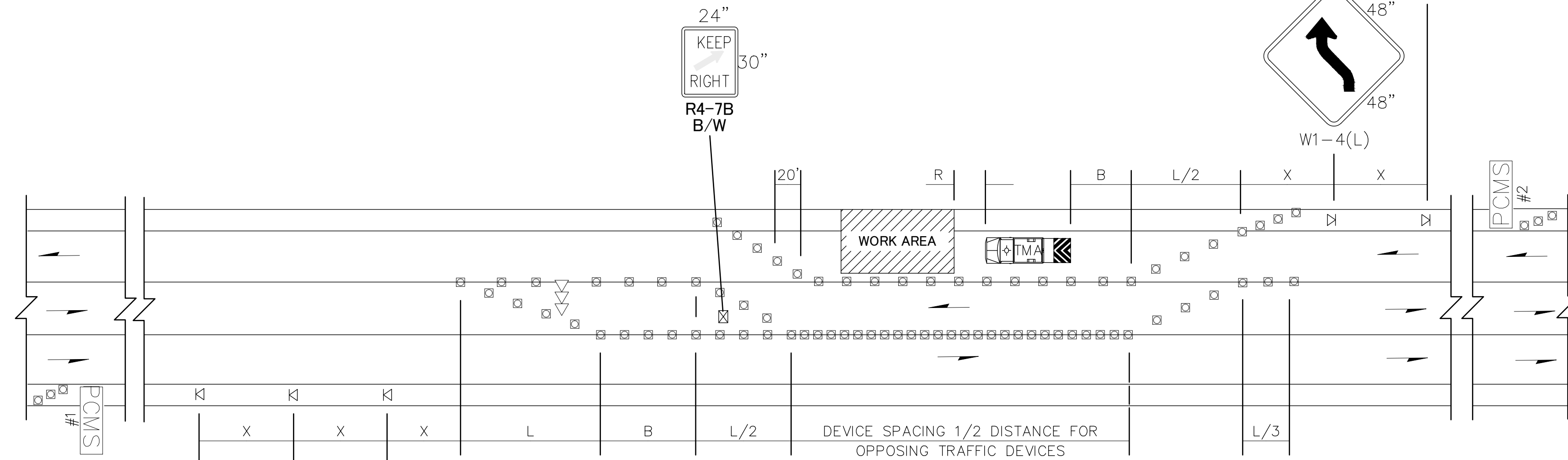
BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.					HOST VEHICLE WEIGHT > 22,000 lbs.					
< 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 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)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, 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
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	-

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



PCMS #1	
1	2
LEFT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

PCMS #2	
1	2
LANE SHIFTS LEFT	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

**LEGEND**

- ⊞ TEMPORARY SIGN LOCATION
- ⊞ CHANNELIZING DEVICES
- ⇨⇨ SEQUENTIAL ARROW SIGN
- ⊞ TRANSPORTABLE ATTENUATOR
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- ⊞ TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

**LANE SHIFT - THREE LANE ROADWAY**

NOT TO SCALE

**NOTES**

- SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- FOR SPEED LIMIT OF 30 MPH OR LESS, USE SIGN W1-3 IN LIEU OF SIGN W1-4.
- RECOMMENDED EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

k:\engineering\division\PROJECTS\ACTIVE\36236 - military road s preservation\03 PE\ACAD\ESC & Site Preparation Plans\_NEW.dwg, 11/17/2023

DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION



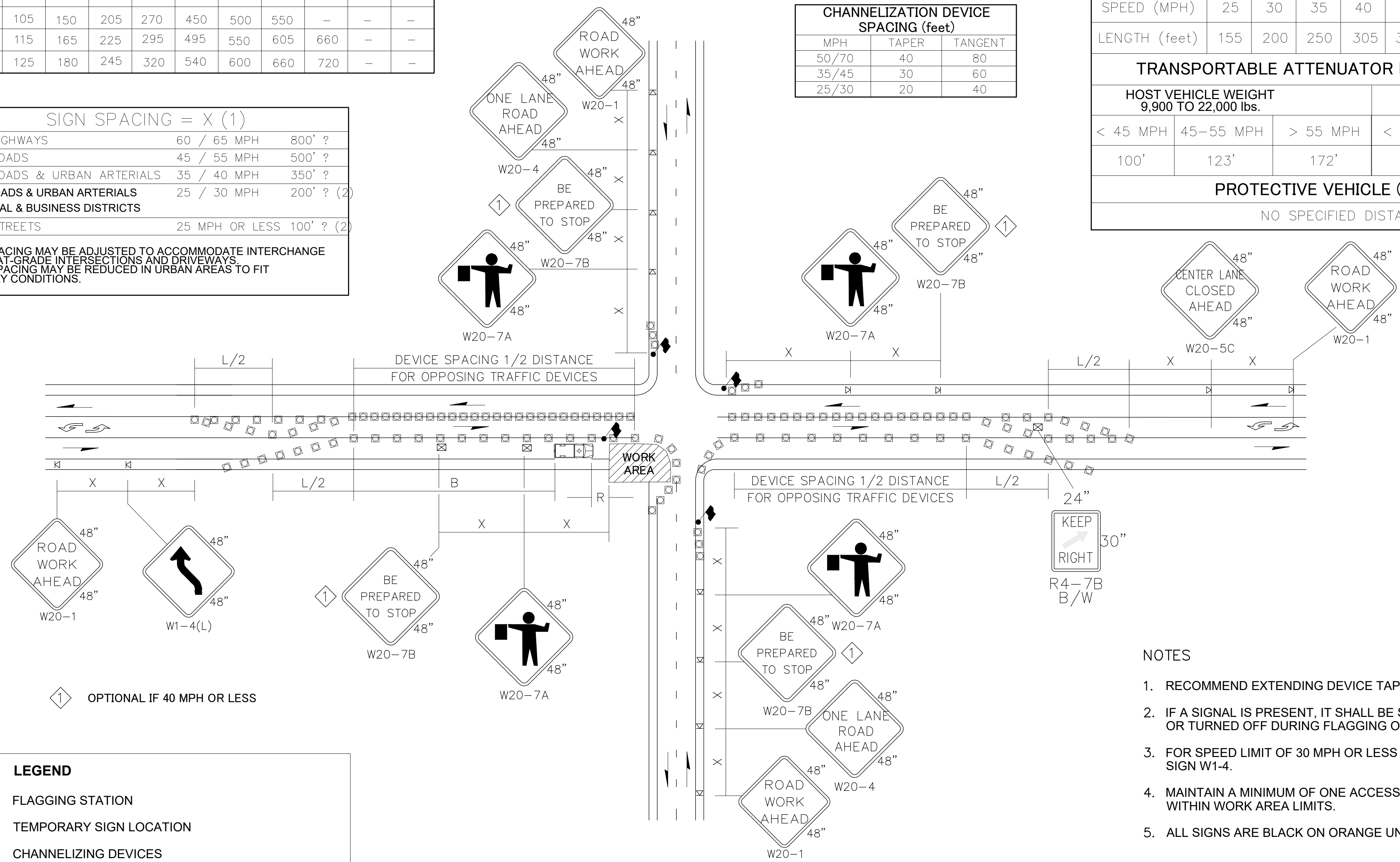
MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

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

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

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										

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



INTERSECTION LANE CLOSURE – THREE LANE ROADWAY  
NOT TO SCALE

- NOTES
1. RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
  2. IF A SIGNAL IS PRESENT, IT SHALL BE SET TO "RED FLASH MODE" OR TURNED OFF DURING FLAGGING OPERATIONS.
  3. FOR SPEED LIMIT OF 30 MPH OR LESS USE SIGN W1-3 IN LIEU OF SIGN W1-4.
  4. MAINTAIN A MINIMUM OF ONE ACCESS POINT FOR EACH BUSINESS WITHIN WORK AREA LIMITS.
  5. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

**LEGEND**

- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- PROTECTIVE VEHICLE - RECOMMENDED
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

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DESIGNED: J.HUYNH  
REVIEWED: C.MULLEN  
APPROVED: C.MULLEN

**CHRISTINE J. MULLEN**  
REGISTERED PROFESSIONAL ENGINEER  
13-NOV-2023

DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

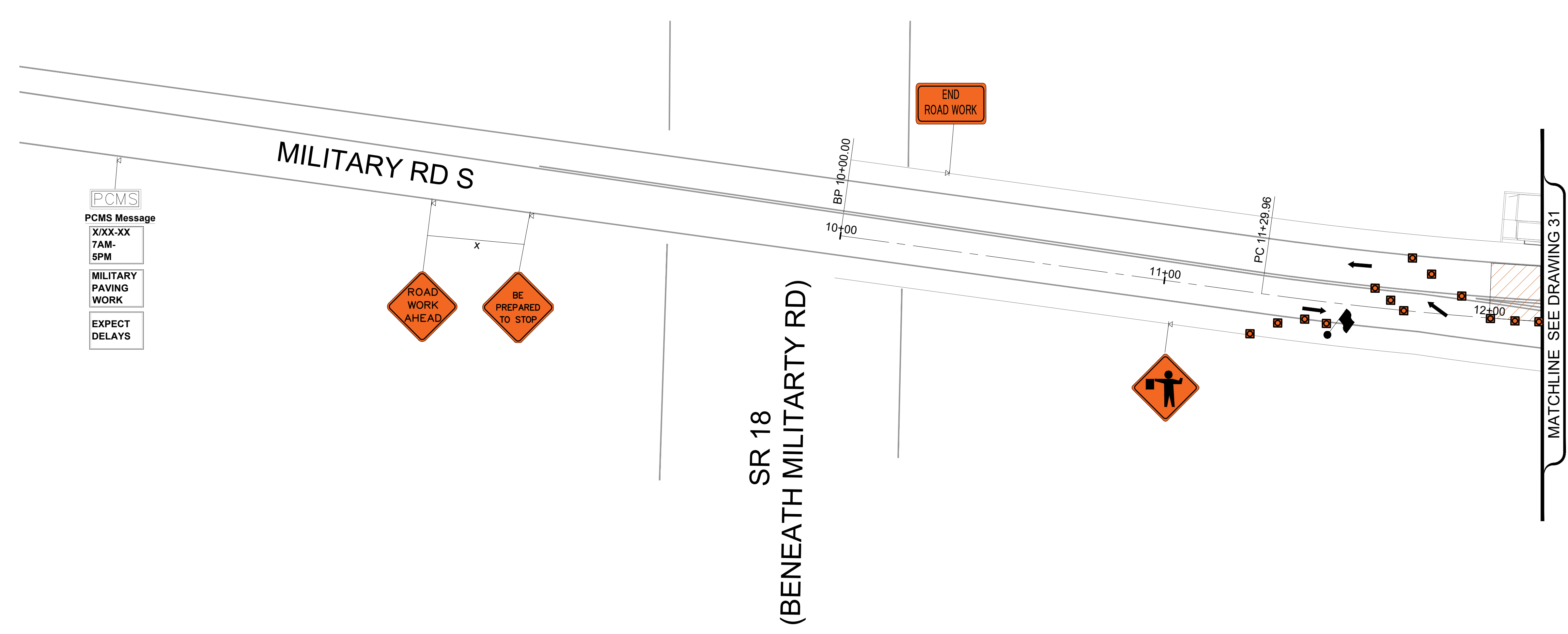
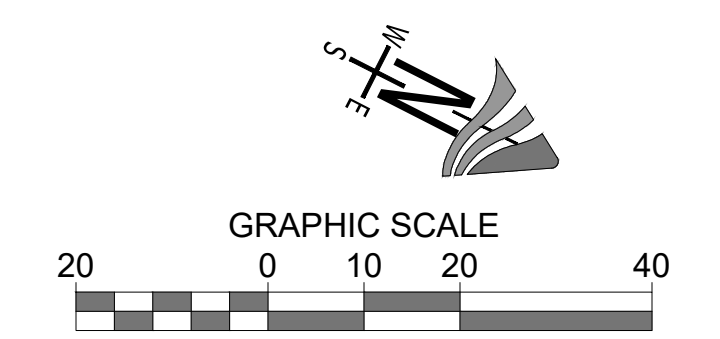
**MILITARY RD S PRESERVATION PROJECT**

**INTERSECTION LANE CLOSURE**

CITY PROJECT #:  
**36236**

SHEET  
**TCP 4**

29 OF 41



PCMS  
PCMS Message  
X/XX-XX  
7AM-5PM  
MILITARY PAVING WORK  
EXPECT DELAYS

**SIGN SPACING = X (1)**

RURAL HIGHWAYS	60 / 65 MPH	800' □
RURAL ROADS	45 / 55 MPH	500' □
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' □
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' □ (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' □ (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, 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	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
35/40	30	60
25/30	20	40

- LEGEND:**
- FLAGGER
  - TEMPORARY SIGN LOCATION
  - SEQUENTIAL ARROW SIGN
  - PORTABLE CHANGEABLE MESSAGE SIGN
  - WORK ZONE

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CHRISTINE J. MULLEN  
REGISTERED PROFESSIONAL ENGINEER  
13-NOV-2023

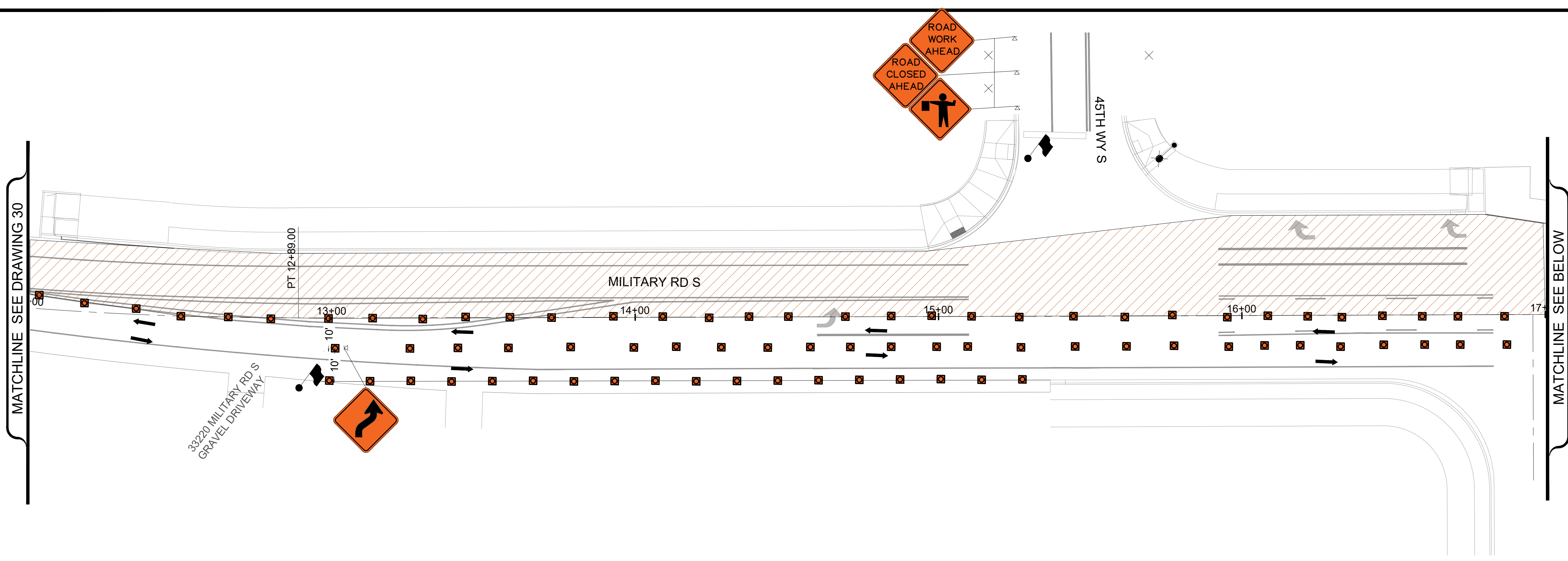
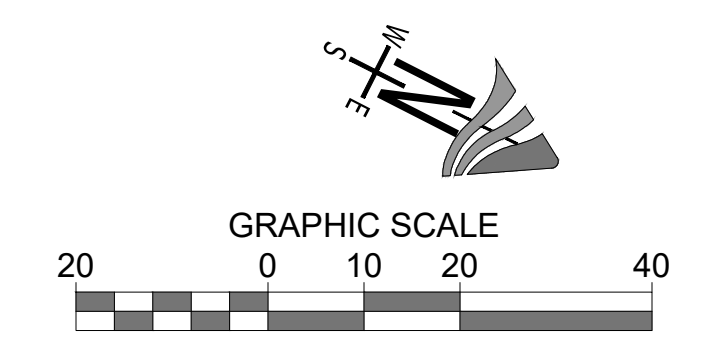
DRAWING VERSION / REVISION LOG

NO.	DATE	REVISION

**MILITARY RD S PRESERVATION PROJECT**  
**TEMPORARY TRAFFIC CONTROL PLAN\_PHASE-I**  
**MILITAR RD S (BRIDGE SR-18)**

CITY PROJECT #:  
**36236**  
SHEET  
**TCP 5**  
30 OF 41

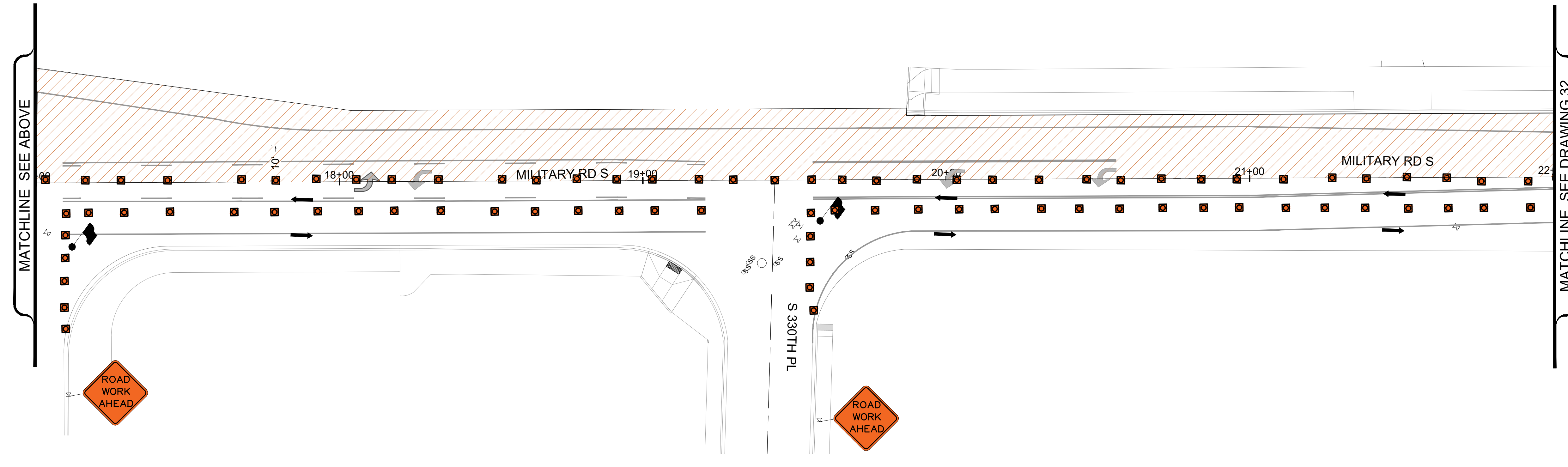




**SIGN SPACING = X (1)**

RURAL HIGHWAYS	60 / 65 MPH	800' □
RURAL ROADS	45 / 55 MPH	500' □
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' □
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' □ (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' □ (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, 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	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

**CHANNELIZATION DEVICE SPACING (feet)**

MPH	TAPER	TANGENT
35/40	30	60
25/30	20	40

- LEGEND:**
- FLAGGER
  - TEMPORARY SIGN LOCATION
  - SEQUENTIAL ARROW SIGN
  - PORTABLE CHANGEABLE MESSAGE SIGN
  - WORK ZONE

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 DESIGNED: J.HUYNH  
 REVIEWED: C.MULLEN  
 APPROVED: C.MULLEN

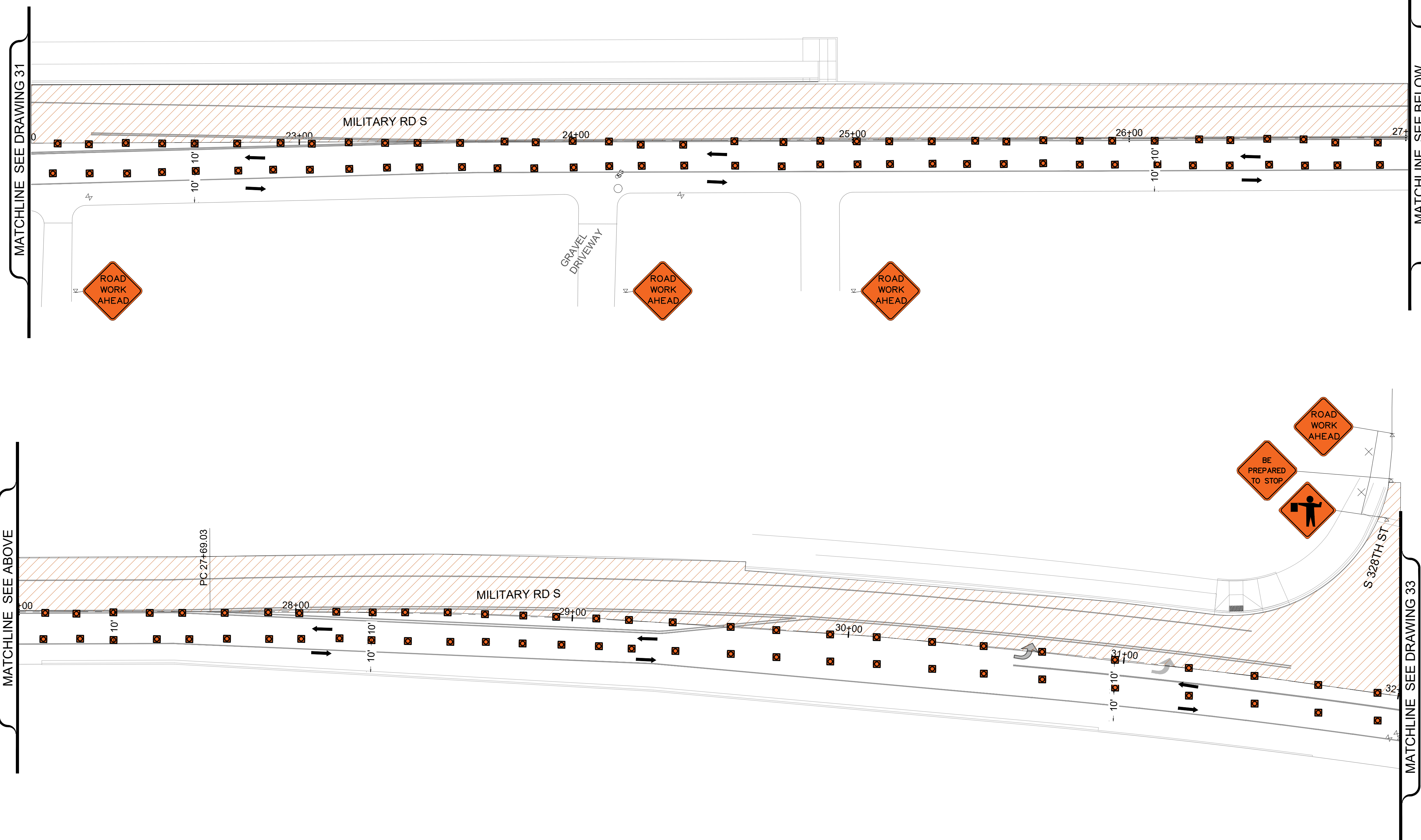
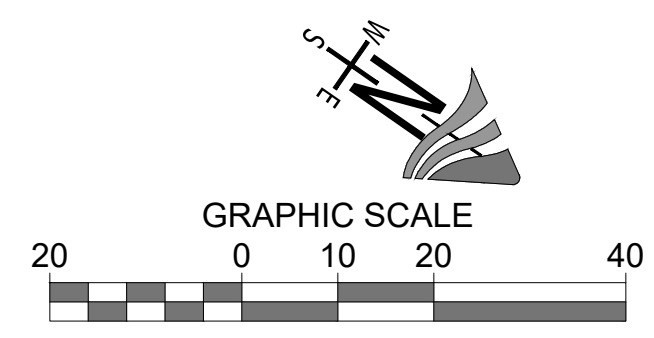
**CHRISTINE J. MULLEN**  
 REGISTERED PROFESSIONAL ENGINEER  
 13-NOV-2023

**DRAWING VERSION / REVISION LOG**

NO.	DATE	REVISION

**MILITARY RD S PRESERVATION PROJECT**  
**TEMPORARY TRAFFIC CONTROL PLAN\_PHASE-I**  
 STA 12+00-STA 22+00

CITY PROJECT #:  
**36236**  
 SHEET  
**TCP 6**  
 31 OF 41



**SIGN SPACING = X (1)**

RURAL HIGHWAYS	60 / 65 MPH	800' □
RURAL ROADS	45 / 55 MPH	500' □
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' □
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' □ (2)
RESIDENTIAL & BUSINESS DISTRICTS		
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	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
35/40	30	60
25/30	20	40

- LEGEND:**
- FLAGGER
  - TEMPORARY SIGN LOCATION
  - SEQUENTIAL ARROW SIGN
  - PORTABLE CHANGEABLE MESSAGE SIGN
  - WORK ZONE

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 APPROVED: C.MULLEN



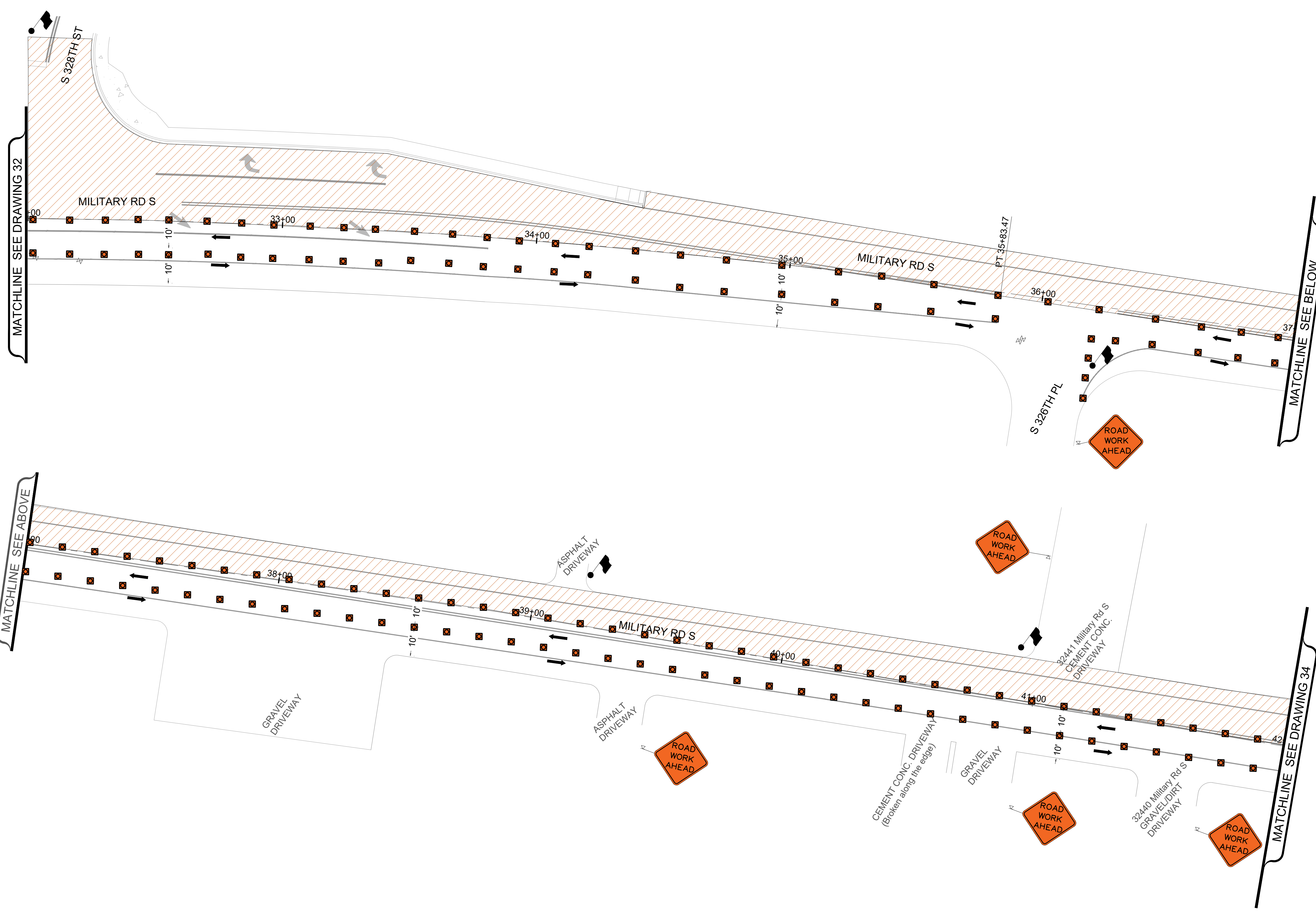
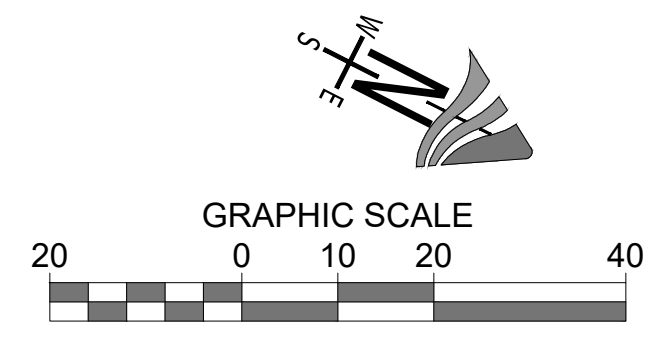
DRAWING VERSION / REVISION LOG

NO.	DATE	REVISION

**MILITARY RD S PRESERVATION PROJECT**  
**TEMPORARY TRAFFIC CONTROL PLAN\_PHASE-I**  
 STA 22+00-STA 32+00

CITY PROJECT #:  
**36236**  
 SHEET  
**TCP 7**  
 32 OF 41





**SIGN SPACING = X (1)**

RURAL HIGHWAYS	60 / 65 MPH	800'
RURAL ROADS	45 / 55 MPH	500'
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' (2)
RESIDENTIAL & BUSINESS DISTRICTS		
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	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

**CHANNELIZATION DEVICE SPACING (feet)**

MPH	TAPER	TANGENT
35/40	30	60
25/30	20	40

- LEGEND:**
- FLAGGER
  - TEMPORARY SIGN LOCATION
  - SEQUENTIAL ARROW SIGN
  - PORTABLE CHANGEABLE MESSAGE SIGN
  - WORK ZONE

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NO.	DATE	REVISION

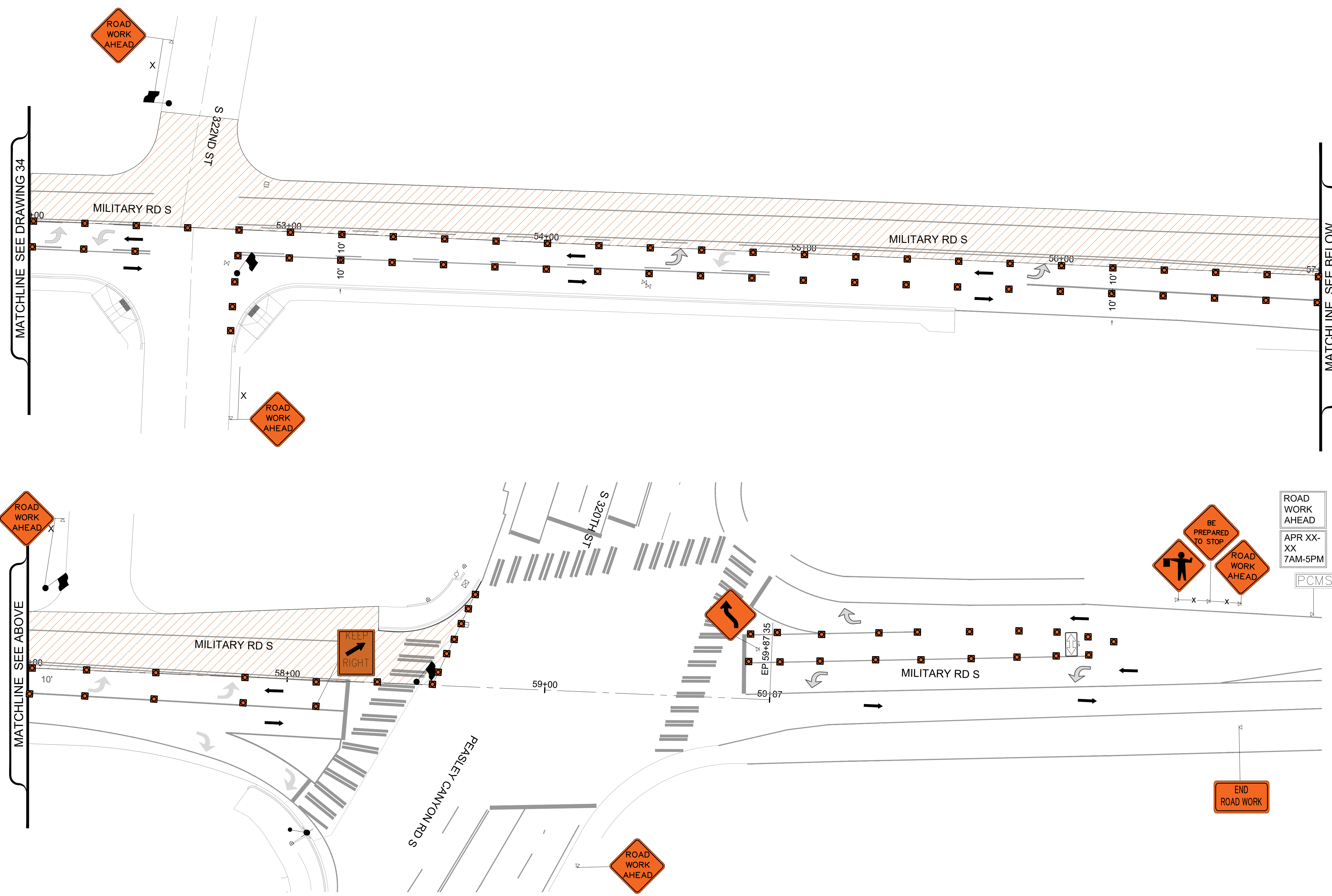
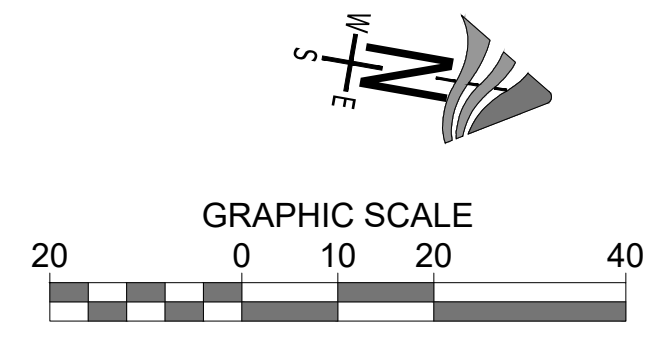
**MILITARY RD S PRESERVATION PROJECT**  
**TEMPORARY TRAFFIC CONTROL PLAN\_PHASE-I**  
 STA 32+00-STA 42+00

CITY PROJECT #:  
**36236**  
 SHEET  
**TCP 8**  
 33 OF 41









**SIGN SPACING = X (1)**

RURAL HIGHWAYS	60 / 65 MPH	800' □
RURAL ROADS	45 / 55 MPH	500' □
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' □
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' □ (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' □ (2)

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10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

**CHANNELIZATION DEVICE SPACING (feet)**

MPH	TAPER	TANGENT
35/40	30	60
25/30	20	40

- LEGEND:**
- FLAGGER
  - TEMPORARY SIGN LOCATION
  - SEQUENTIAL ARROW SIGN
  - PORTABLE CHANGEABLE MESSAGE SIGN
  - WORK ZONE

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 REVIEWED: C.MULLEN  
 APPROVED: C.MULLEN

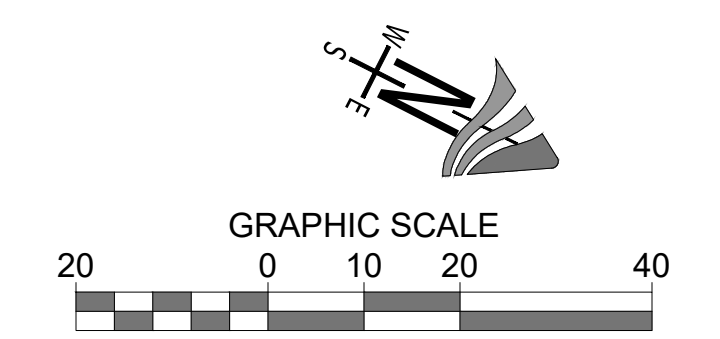
CHRISTINE J. MULLEN  
 REGISTERED PROFESSIONAL ENGINEER  
 13-NW-2023

**DRAWING VERSION / REVISION LOG**

NO.	DATE	REVISION

**MILITARY RD S PRESERVATION PROJECT**  
**TEMPORARY TRAFFIC CONTROL PLAN\_PHASE-I**  
 STA 52+00-STA 58+00

CITY PROJECT #:  
**36236**  
 SHEET  
**TCP 10**  
 35 OF 41



PCMS  
 PCMS Message  
 XXX-XX  
 7AM-  
 5PM  
 MILITARY  
 PAVING  
 WORK  
 EXPECT  
 DELAYS

MATCHLINE SEE DRAWING 37

SR 18  
 (BENEATH MILITARY RD)

**SIGN SPACING = X (1)**

RURAL HIGHWAYS	60 / 65 MPH	800' □
RURAL ROADS	45 / 55 MPH	500' □
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' □
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' □ (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' □ (2)

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CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
35/40	30	60
25/30	20	40

- LEGEND:**
- FLAGGER
  - TEMPORARY SIGN LOCATION
  - SEQUENTIAL ARROW SIGN
  - PORTABLE CHANGEABLE MESSAGE SIGN
  - WORK ZONE

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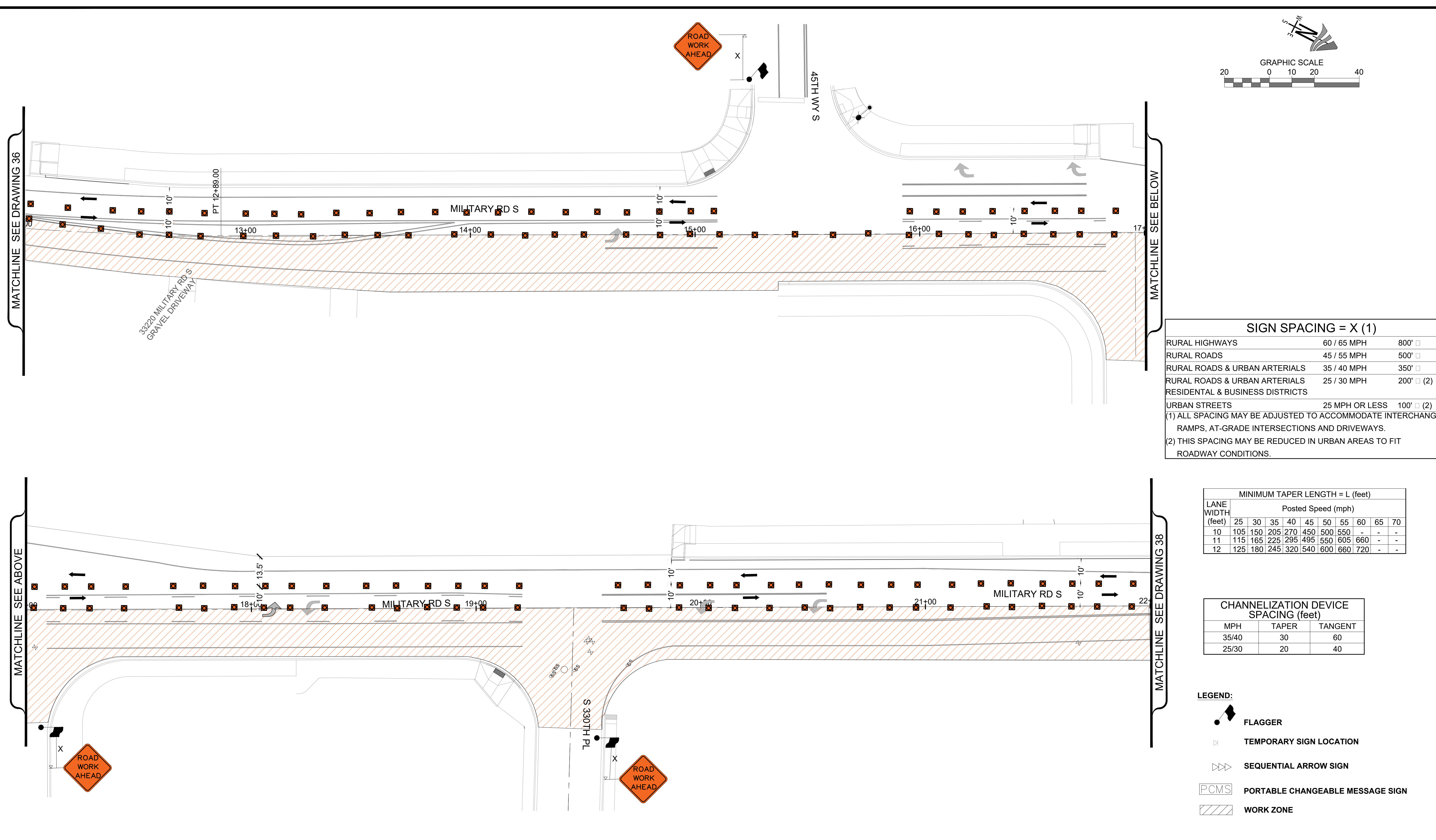
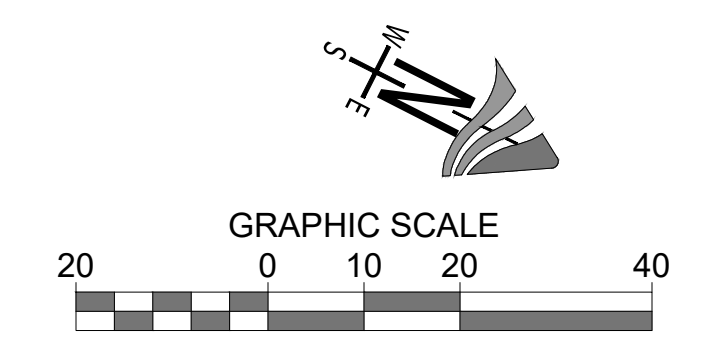
DRAWING VERSION / REVISION LOG

NO.	DATE	REVISION

**MILITARY RD S PRESERVATION PROJECT**  
**TEMPORARY TRAFFIC CONTROL PLAN\_PHASE-II**  
 MILITAR RD S (BRIDGE SR-18)

CITY PROJECT #:  
**36236**  
 SHEET  
**TCP 11**  
 36 OF 41





**SIGN SPACING = X (1)**

RURAL HIGHWAYS	60 / 65 MPH	800' □
RURAL ROADS	45 / 55 MPH	500' □
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' □
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' □ (2)
RESIDENTIAL & BUSINESS DISTRICTS		
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	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

**CHANNELIZATION DEVICE SPACING (feet)**

MPH	TAPER	TANGENT
35/40	30	60
25/30	20	40

- LEGEND:**
- FLAGGER
  - TEMPORARY SIGN LOCATION
  - SEQUENTIAL ARROW SIGN
  - PORTABLE CHANGEABLE MESSAGE SIGN
  - WORK ZONE

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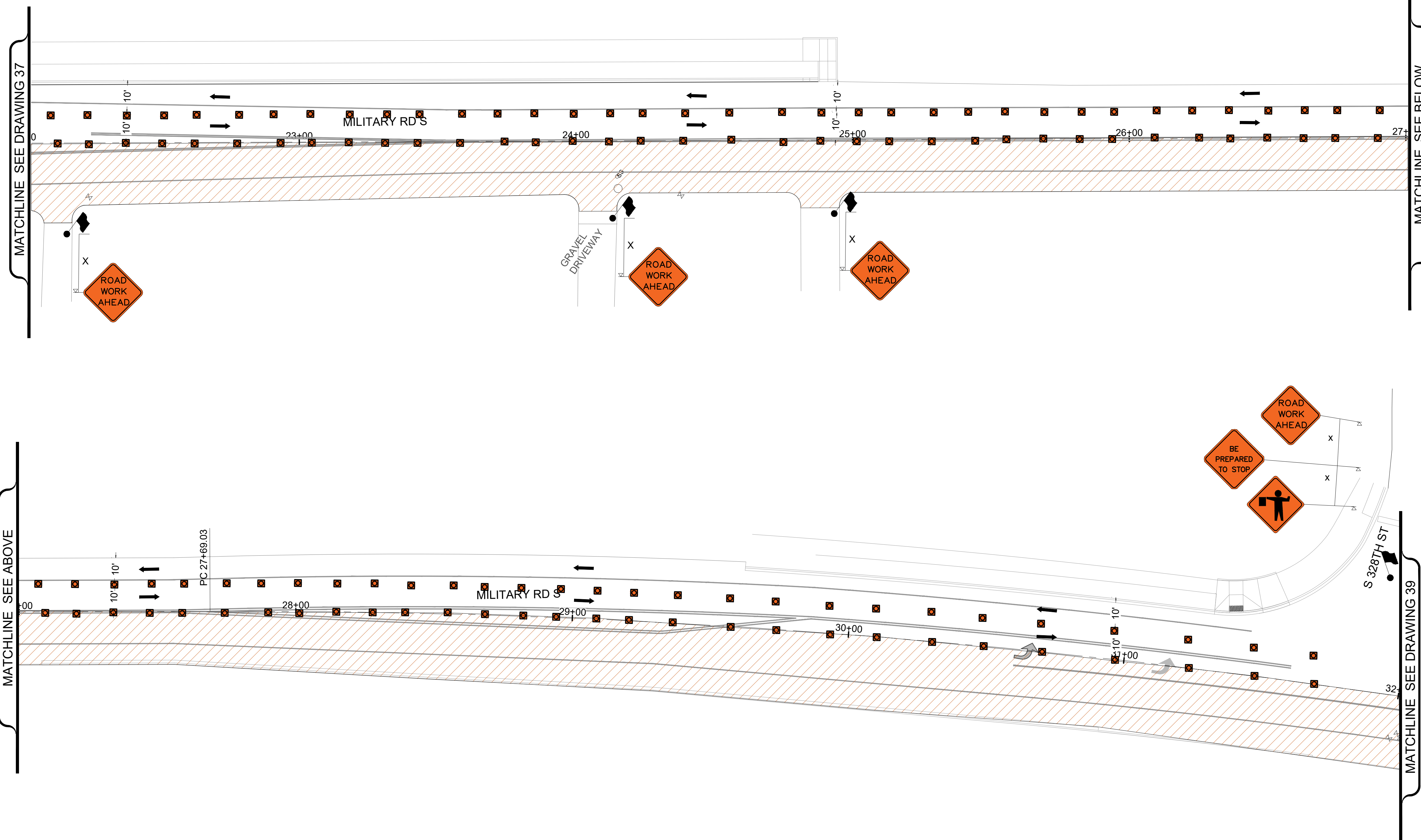
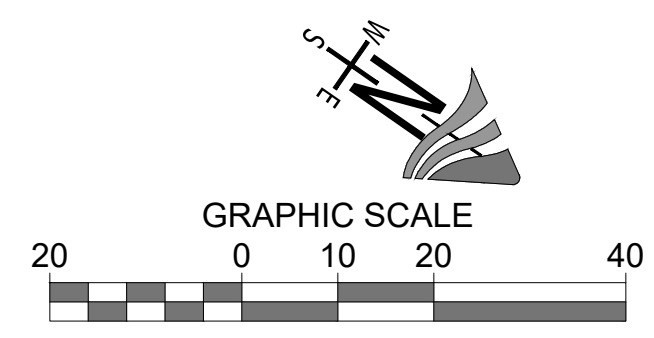
**CHRISTINE J. MULLEN**  
 REGISTERED PROFESSIONAL ENGINEER  
 13-NOV-2023

**DRAWING VERSION / REVISION LOG**

NO.	DATE	REVISION

**MILITARY RD S PRESERVATION PROJECT**  
**TEMPORARY TRAFFIC CONTROL PLAN\_PHASE-II**  
 STA 12+00-STA 22+00

CITY PROJECT #:  
**36236**  
 SHEET  
**TCP 12**  
 37 OF 41



**SIGN SPACING = X (1)**

RURAL HIGHWAYS	60 / 65 MPH	800' □
RURAL ROADS	45 / 55 MPH	500' □
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' □
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' □ (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' □ (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.  
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**MINIMUM TAPER LENGTH = L (feet)**

LANE WIDTH (feet)	Posted Speed (mph)									
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10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

**CHANNELIZATION DEVICE SPACING (feet)**

MPH	TAPER	TANGENT
35/40	30	60
25/30	20	40

- LEGEND:**
- FLAGGER
  - TEMPORARY SIGN LOCATION
  - SEQUENTIAL ARROW SIGN
  - PORTABLE CHANGEABLE MESSAGE SIGN
  - WORK ZONE

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 WWW.CITYOFFEDERALWAY.COM

**811**  
 Know what's below.  
 Call before you dig.

DRAFTED: S.ALIZAI  
 DESIGNED: J.HUYNH  
 REVIEWED: C.MULLEN  
 APPROVED: C.MULLEN

CHRISTINE J. MULLEN  
 STATE OF WASHINGTON  
 35914  
 REGISTERED PROFESSIONAL ENGINEER  
 13-NOV-2023

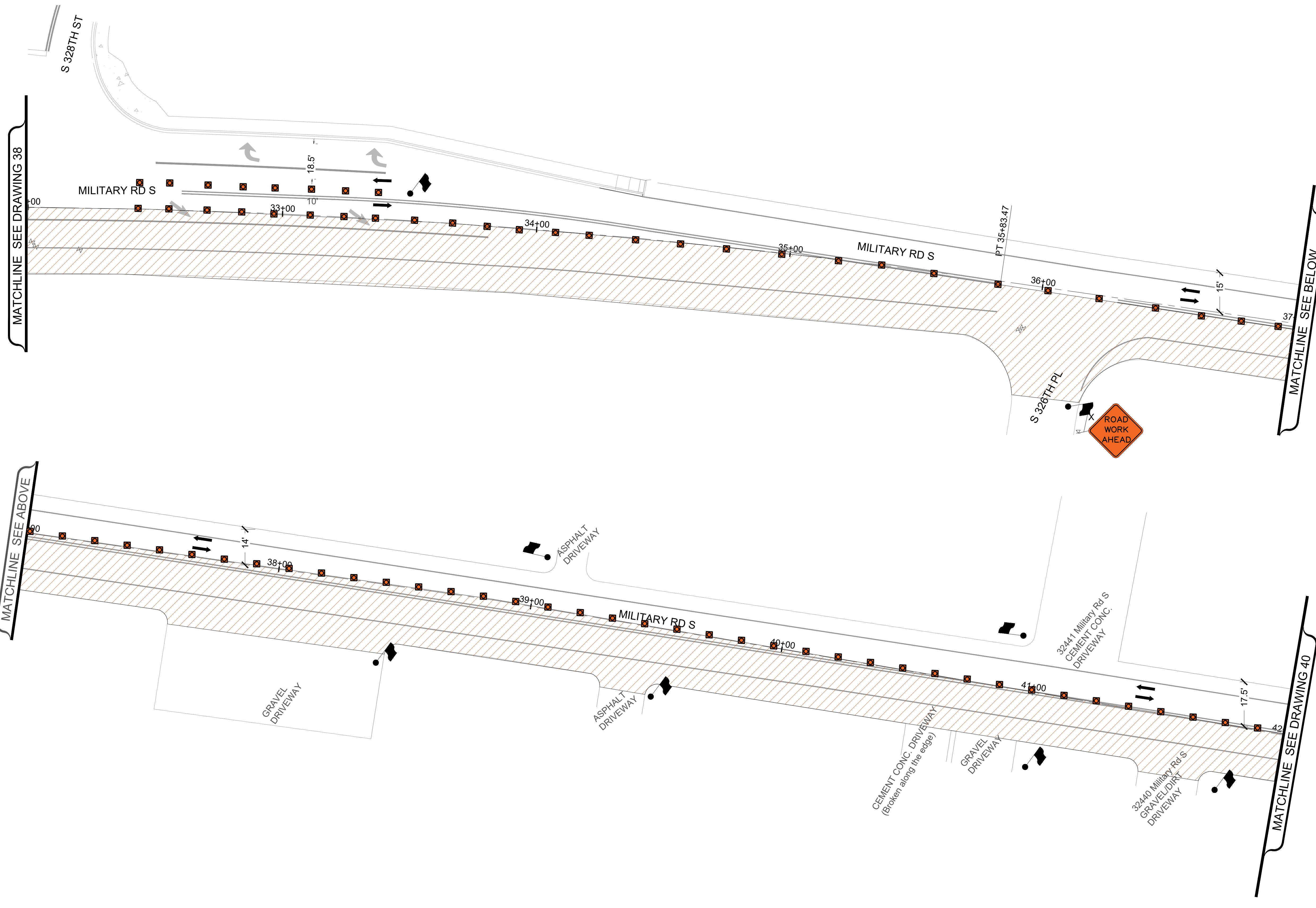
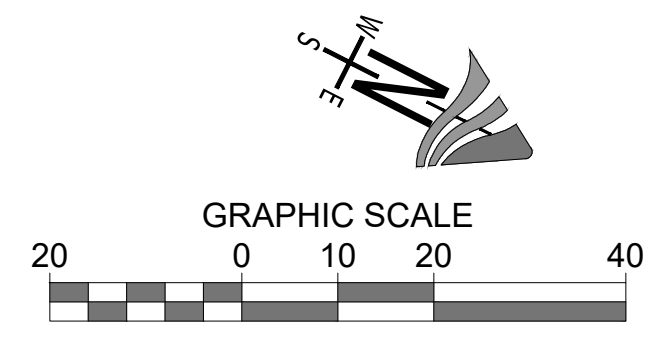
**DRAWING VERSION / REVISION LOG**

NO.	DATE	REVISION

**MILITARY RD S PRESERVATION PROJECT**  
**TEMPORARY TRAFFIC CONTROL PLAN\_PHASE-II**  
 STA 22+00-STA 32+00

CITY PROJECT #:  
**36236**  
 SHEET  
**TCP 13**  
 38 OF 41





**SIGN SPACING = X (1)**

RURAL HIGHWAYS	60 / 65 MPH	800'
RURAL ROADS	45 / 55 MPH	500'
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, 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	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

**CHANNELIZATION DEVICE SPACING (feet)**

MPH	TAPER	TANGENT
35/40	30	60
25/30	20	40

- LEGEND:**
- FLAGGER
  - TEMPORARY SIGN LOCATION
  - SEQUENTIAL ARROW SIGN
  - PORTABLE CHANGEABLE MESSAGE SIGN
  - WORK ZONE

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**CHRISTINE J. MULLEN**  
 REGISTERED PROFESSIONAL ENGINEER  
 13-NW-2023

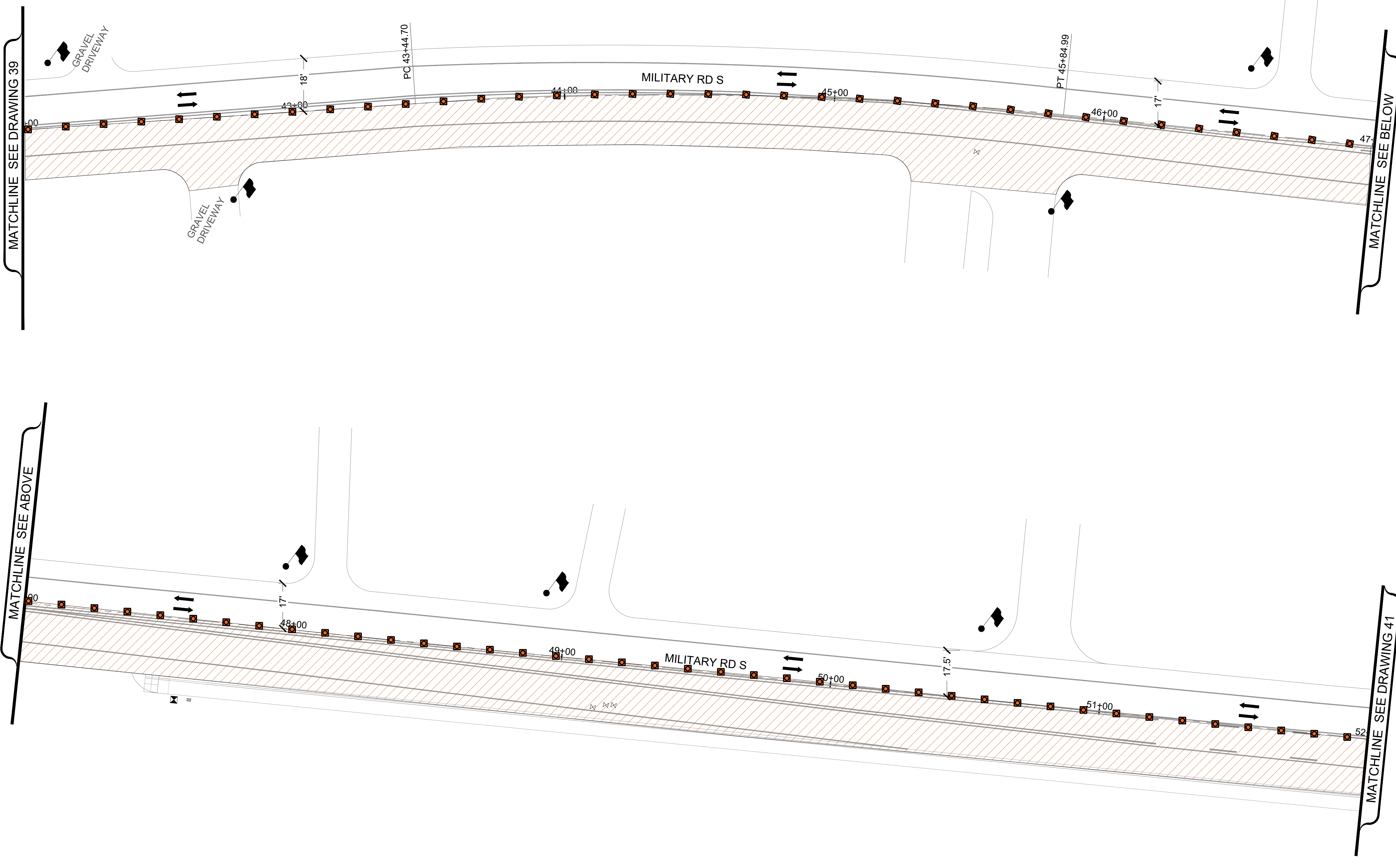
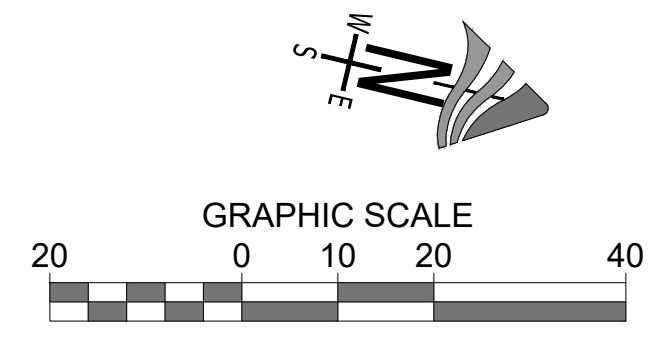
**DRAWING VERSION / REVISION LOG**

NO.	DATE	REVISION

**MILITARY RD S PRESERVATION PROJECT**  
**TEMPORARY TRAFFIC CONTROL PLAN\_PHASE-II**  
 STA 32+00-STA 42+00

CITY PROJECT #:  
**36236**  
 SHEET  
**TCP 14**  
 39 OF 41





**SIGN SPACING = X (1)**

RURAL HIGHWAYS	60 / 65 MPH	800' □
RURAL ROADS	45 / 55 MPH	500' □
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' □
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' □ (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' □ (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, 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	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
35/40	30	60
25/30	20	40

- LEGEND:**
- FLAGGER
  - TEMPORARY SIGN LOCATION
  - SEQUENTIAL ARROW SIGN
  - PORTABLE CHANGEABLE MESSAGE SIGN
  - WORK ZONE

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CHRISTINE J. MULLEN  
 REGISTERED PROFESSIONAL ENGINEER  
 13-NOV-2023

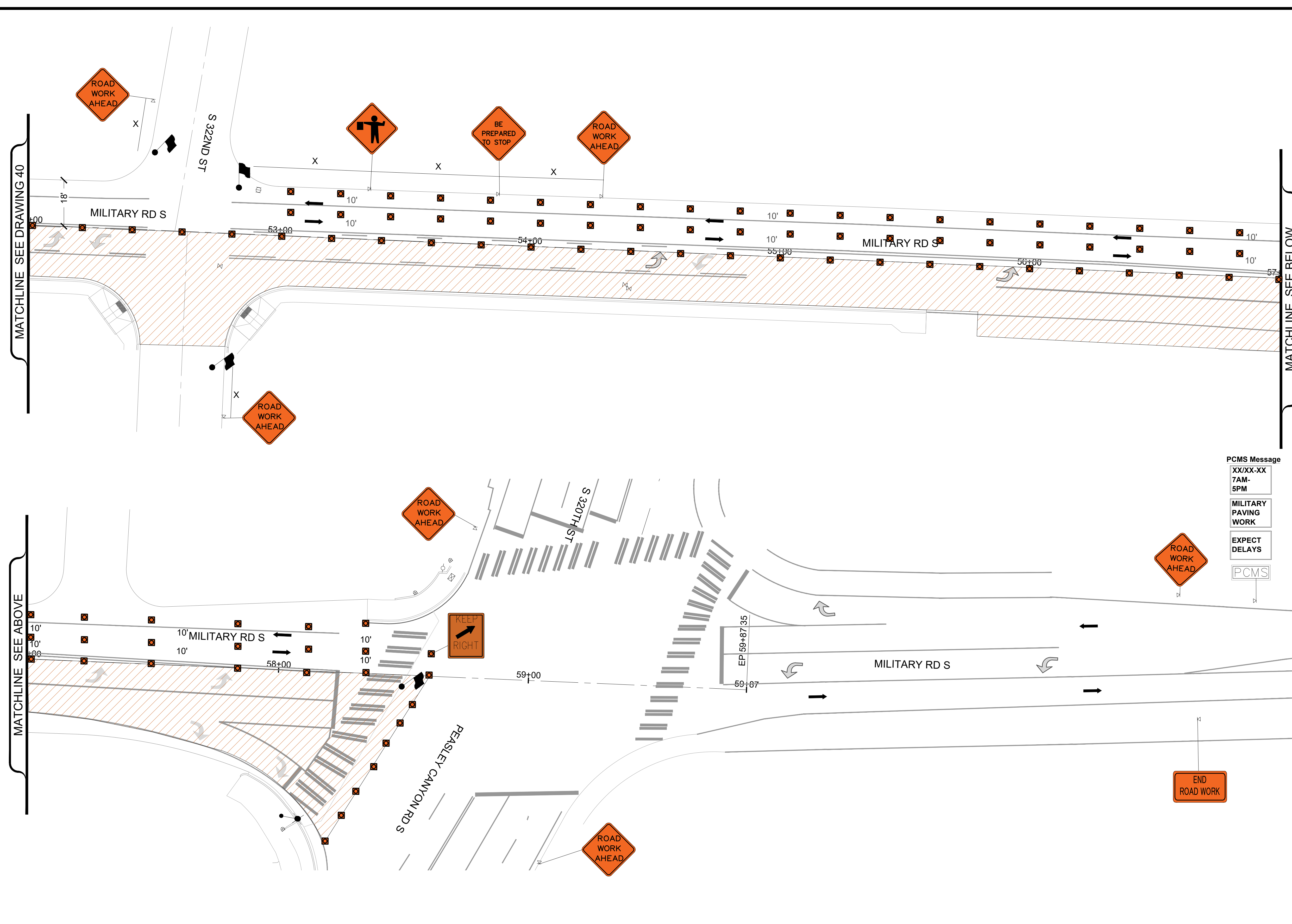
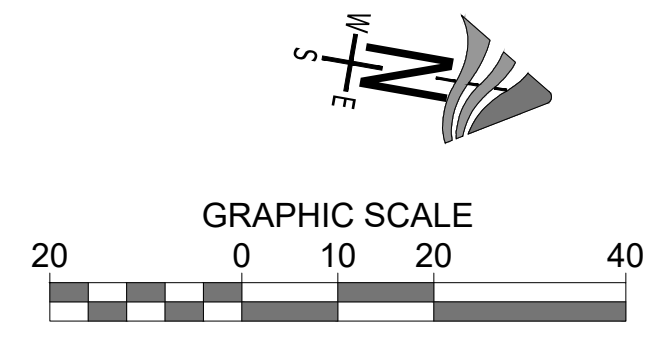
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NO.	DATE	REVISION

**MILITARY RD S PRESERVATION PROJECT**  
**TEMPORARY TRAFFIC CONTROL PLAN\_PHASE-II**  
 STA 42+00-STA 52+00

CITY PROJECT #:  
**36236**  
 SHEET  
**TCP 15**  
 40 OF 41





**SIGN SPACING = X (1)**

RURAL HIGHWAYS	60 / 65 MPH	800'
RURAL ROADS	45 / 55 MPH	500'
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, 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	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

**CHANNELIZATION DEVICE SPACING (feet)**

MPH	TAPER	TANGENT
35/40	30	60
25/30	20	40

PCMS Message  
 XX/XX-XX  
 7AM-5PM  
 MILITARY PAVING WORK  
 EXPECT DELAYS  
 PCMS

- LEGEND:**
- FLAGGER
  - TEMPORARY SIGN LOCATION
  - SEQUENTIAL ARROW SIGN
  - PORTABLE CHANGEABLE MESSAGE SIGN
  - WORK ZONE

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DRAFTED: S.ALIZAI  
 DESIGNED: J.HUYNH  
 REVIEWED: C.MULLEN  
 APPROVED: C.MULLEN



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NO.	DATE	REVISION

**MILITARY RD S PRESERVATION PROJECT**  
**TEMPORARY TRAFFIC CONTROL PLAN\_PHASE-II**  
 STA 52+00-STA 58+00

CITY PROJECT #:  
**36236**  
 SHEET  
**TCP 16**  
 41 OF 41