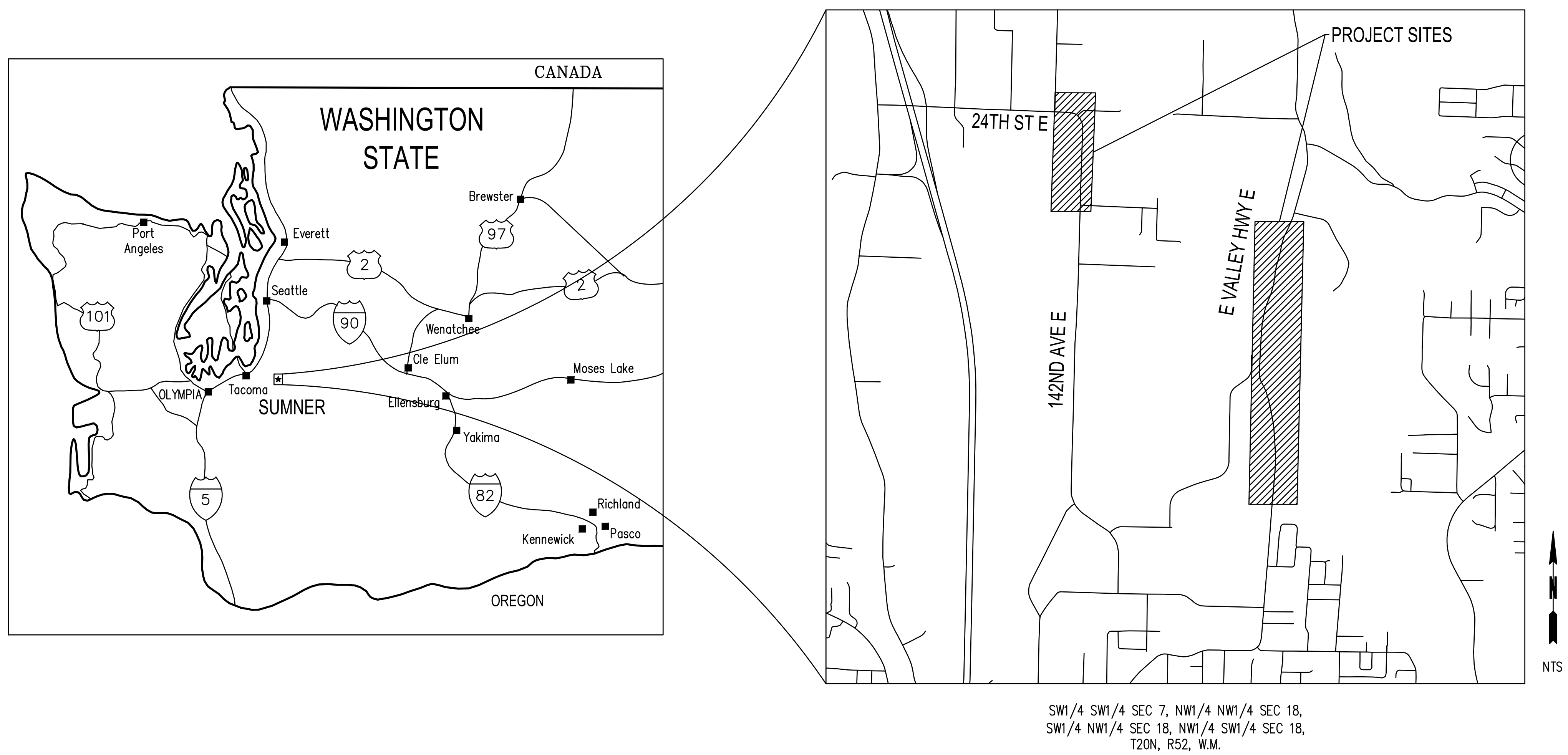


SYSTEMIC HORIZONTAL CURVE AND ROADWAY DEPARTURE SAFETY IMPROVEMENTS

SUMNER, WASHINGTON

FEDERAL AID NO. HSIP-000S(668)

100% DESIGN



SHEET INDEX		
SHEET NO.	SHEET REF.	DESCRIPTION
01	CV-01	COVER SHEET
02	GN-01	GENERAL NOTES AND ABBREVIATIONS
03	GR-01	GUARDRAIL PLAN
04	GR-02	GUARDRAIL PLAN
05	GR-03	GUARDRAIL PLAN
06	GR-04	GUARDRAIL DETAIL
07	RM-01	REMOVAL PLAN
08	RM-02	REMOVAL PLAN
09	PM-01	CHANNELIZATION & SIGNING PLAN
10	PM-02	CHANNELIZATION & SIGNING PLAN
11	TC-01	TRAFFIC CONTROL PLAN
12	TC-02	TRAFFIC CONTROL PLAN
13	TC-03	TRAFFIC CONTROL PLAN

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

	REVISIONS	DATE	BY	DESIGNED BY: D. HALL	ISSUE DATE: JULY 2026	ALL DIMENSIONS SHOWN IN FEET UNLESS OTHERWISE DESIGNATED		 8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516 P: 360.352.1465 SCJALLIANCE.COM	PROJECT NAME: CITY OF SUMNER WASHINGTON	SYSTEMTIC HORIZONTAL CURVE AND ROADWAY DEPARTURE SAFETY IMPROVEMENTS SUMNER, WASHINGTON	DRAWING No.: CV-01
				DRAWN BY: R. PIERCE	JOB No.: 23-001102					SHEET No.:	
				APPROVED BY: P. HOLM	DRAWING FILE No.: _23-001102 CV-01					COVER SHEET	01 OF 13

JUL 13, 2026 4:56:23pm - User: daniel.hall
\\V:\PROJECTS\005\05\ CITY OF SUMNER\23-001102 SUMNER SYSTEMIC HORIZONTAL CURVE IMP(CADD)_23-001102 CV-01.DWG

Jul 13, 2025 4:56:25pm - User: daniel.hall
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ABBREVIATIONS

AC	ASPHALT CONCRETE
AD	AREA DRAIN
AP	ANGLE POINT
APPROX	APPROXIMATELY
BOP	BEGINNING OF PROJECT
CB	CATCH BASIN
CL	CENTERLINE
CSBC COURSE	CRUSHED SURFACING BASE
CSTC COURSE	CRUSHED SURFACING TOP
EL	ELEVATION
EOP	END OF PROJECT
EP	EDGE OF PAVEMENT
EX	EXISTING
FT	FOOT
LF	LINEAR FEET
LT	LEFT
PC	POINT OF CURVATURE
PCC CURVATURE	POINT OF COMPOUND
PRC CURVATURE	POINT OF REVERSE
PT	POINT OF TANGENCY
ROW	RIGHT-OF-WAY
RT	RIGHT
SHT	SHEET OR PAGE
STA	STATION
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

ABBREVIATIONS

	DECIDUOUS TREE
	DOUGLAS-FIR TREE
	CEDAR TREE
	MAPLE TREE
	MAIL BOX
	STREET SIGN (AS DESCRIBED)
	SET CONTROL SPIKE
	SET REBAR AND CONTROL CAP
	COMMUNICATION JUNCTION BOX
	CABLE VAULT/MANHOLE
	CULVERT
	GUY ANCHOR
	GUY POLE
	POWER POLE
	PP WITH DROP LINE
	PP WITH DROP AND TRANSFORMER
	PP WITH LIGHT AND TRANSFORMER
	PP WITH TRANSFORMER
	STORM CATCH BASIN
	WOOD FENCE
	CHAIN LINK FENCE
	WIRE FENCE
	GROUND TOE
	GROUND TOP
	EXTERIOR BUILDING
	STORM LINE
	BURIED POWER
	OVERHEAD POWER
	BURIED COMMUNICATIONS LINE
	MAJOR CONTOUR
	MINOR CONTOUR

OWNER / APPLICANT

CITY OF SUMNER
1104 MAPLE ST #200
SUMNER, WA 98390
PHONE: 253.299.5703
CONTACT: A. O'HAVER-AYALA, PE

BASIS OF BEARINGS:

WASHINGTON STATE PLANE
COORDINATES, SOUTH ZONE, NAD
83/2011 BASED ON GPS TIES TO WSDOT
MONUMENTS 6403, 9894, AND 9892.

CONSULTANTS

SCJ ALLIANCE
8730 TALLON LANE NE, SUITE 200
LACEY, WA 98516
PHONE: 360.352.1465
CONTACT: P. HOLM

DATUM:

NAVD 88 BASED ON PGS TIES TO
WSDOT MONUMENT 9894, HOLDING A
PUBLISHED EVEVATION OF 55.65.

SURVEYOR:
MTN2COAST, LLC
2320 MOTTMAN RD SW, SUITE 106
TUMWATER, WA 98512
PHONE: 306.688.1949
CONTACT: P. BOUGHAL, LSIT

GENERAL NOTES

- WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE PROJECT SPECIFICATIONS AND THE 2026 WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION WHICH ARE HEREBY REFERENCED AS A PART OF THESE PLANS.
- THE DESIGN SHOWN IS BASED UPON THE ENGINEER'S UNDERSTANDING OF THE EXISTING CONDITIONS. THE EXISTING CONDITIONS SHOWN ON THIS PLAN SET ARE BASED UPON SURVEY, PREPARED BY MTN2COAST, LLC. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO BIDDING THE PROPOSED WORK IMPROVEMENTS. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER OR ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE WORK WHICH WOULD BE AFFECTED.

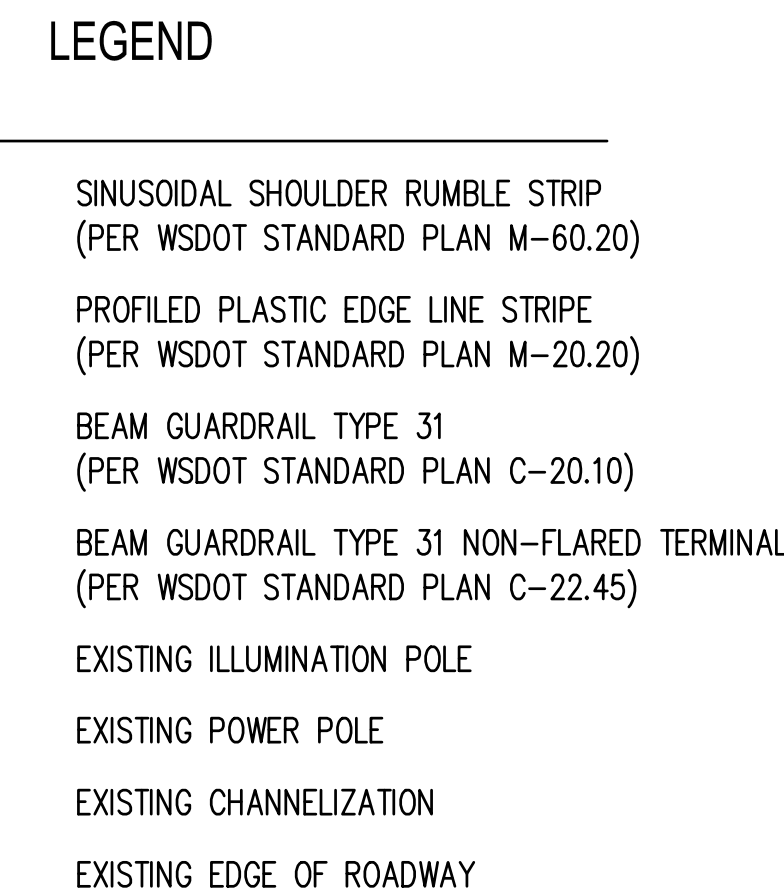
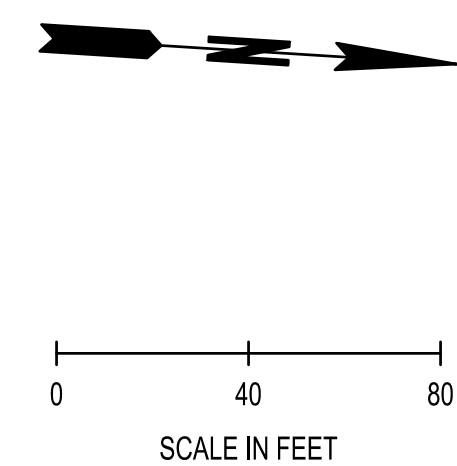
CAUTION – NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON THE PROJECT SURVEY AND OTHER RECORDS OF UTILITIES. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL CALL 811 48 HOURS PRIOR TO PLANNED EXCAVATION.

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

△	REVISIONS	DATE	BY	DESIGNED BY: D. HALL	ISSUE DATE: JULY 2026	ALL DIMENSIONS SHOWN IN FEET UNLESS OTHERWISE DESIGNATED		 SCJ ALLIANCE CONSULTING SERVICES 8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516 P: 360.352.1465 SCJALLIANCE.COM	PROJECT NAME:  CITY OF SUMNER WASHINGTON	SYSTEMIC HORIZONTAL CURVE AND ROADWAY DEPARTURE SAFETY IMPROVEMENTS SUMNER, WASHINGTON		DRAWING No.: GN-01
				DRAWN BY: R. PIERCE	JOB No.: 23-001102					GENERAL NOTES AND ABBREVIATIONS		SHEET No.: 02 OF 13
				APPROVED BY: P. HOLM	DRAWING FILE No.: _23-001102 GN-01							

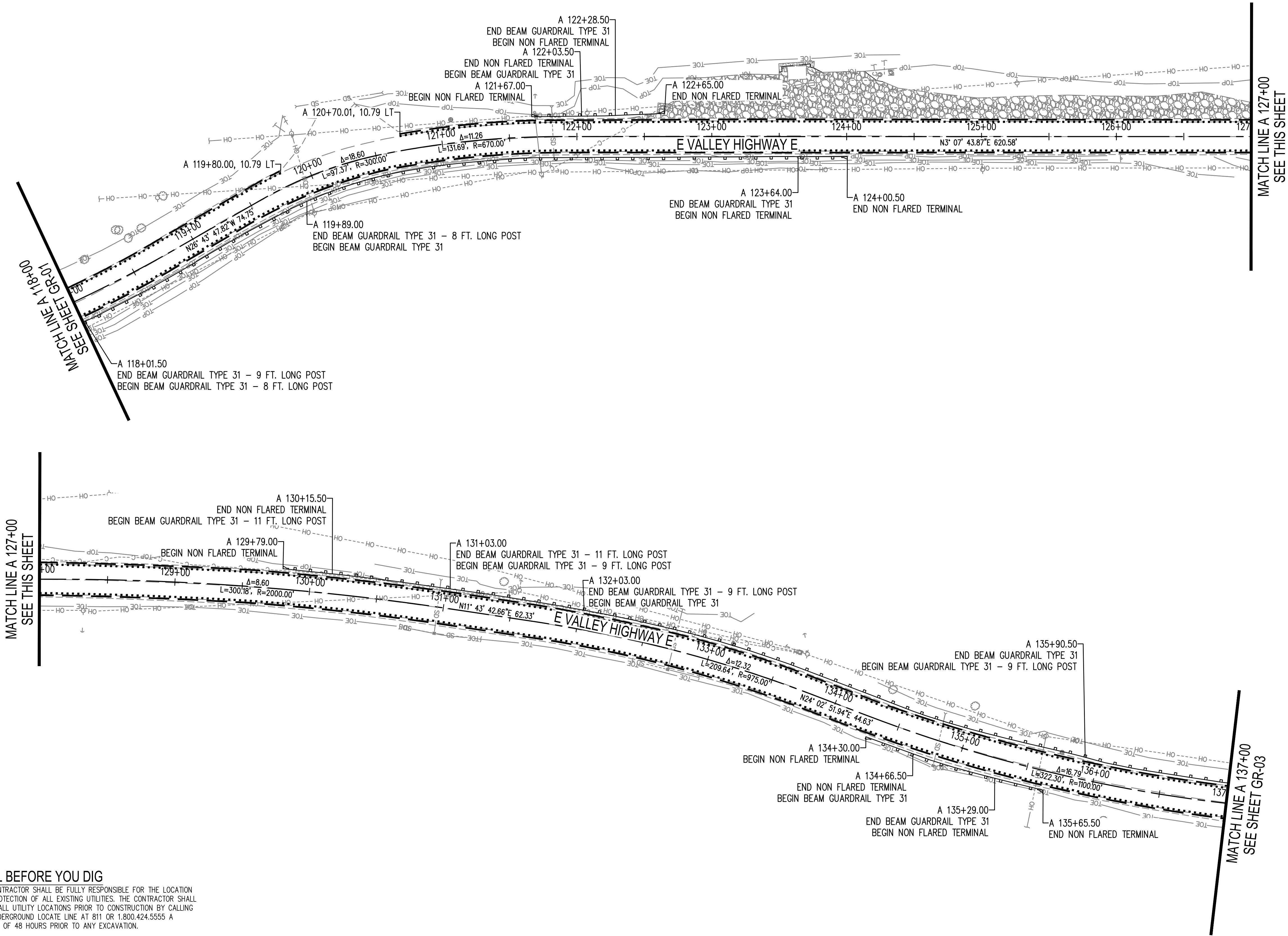
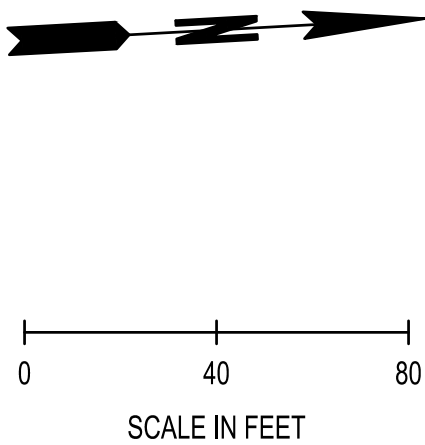


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1. CONTRACTOR TO VERIFY UTILITY CONFLICT
2. CONTRACTOR TO SET FACE OF GUARDRAIL ONE FOOT OFF THE EDGE OF ASPHALT

	REVISIONS	DATE	BY	DESIGNED BY: D. HALL	ISSUE DATE: JULY 2026	ALL DIMENSIONS SHOWN IN FEET UNLESS OTHERWISE DESIGNATED	 7/14/26	 SCJ ALLIANCE CONSULTING SERVICES 8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516 P: 360.352.1465 SCJALLIANCE.COM	PROJECT NAME: CITY OF SUMNER WASHINGTON	SYSTEMTIC HORIZONTAL CURVE AND ROADWAY DEPARTURE SAFETY IMPROVEMENTS SUMNER, WASHINGTON	DRAWING No.: GR-01
				DRAWN BY: R. PIERCE	JOB No.: 23-001102						SHEET No.:
					APPROVED BY: P. HOLM					DRAWING FILE No.: _23-001102 GR-01	03 OF 13

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LEGEND

- SINUSOIDAL SHOULDER RUMBLE STRIP (PER WSDOT STANDARD PLAN M-60.20)
- PROFILED PLASTIC EDGE LINE STRIPE (PER WSDOT STANDARD PLAN M-20.20)
- BEAM GUARDRAIL TYPE 31 (PER WSDOT STANDARD PLAN C-20.10)
- BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL (PER WSDOT STANDARD PLAN C-22.45)
- EXISTING ILLUMINATION POLE
- EXISTING POWER POLE
- EXISTING CHANNELIZATION
- EXISTING EDGE OF ROADWAY

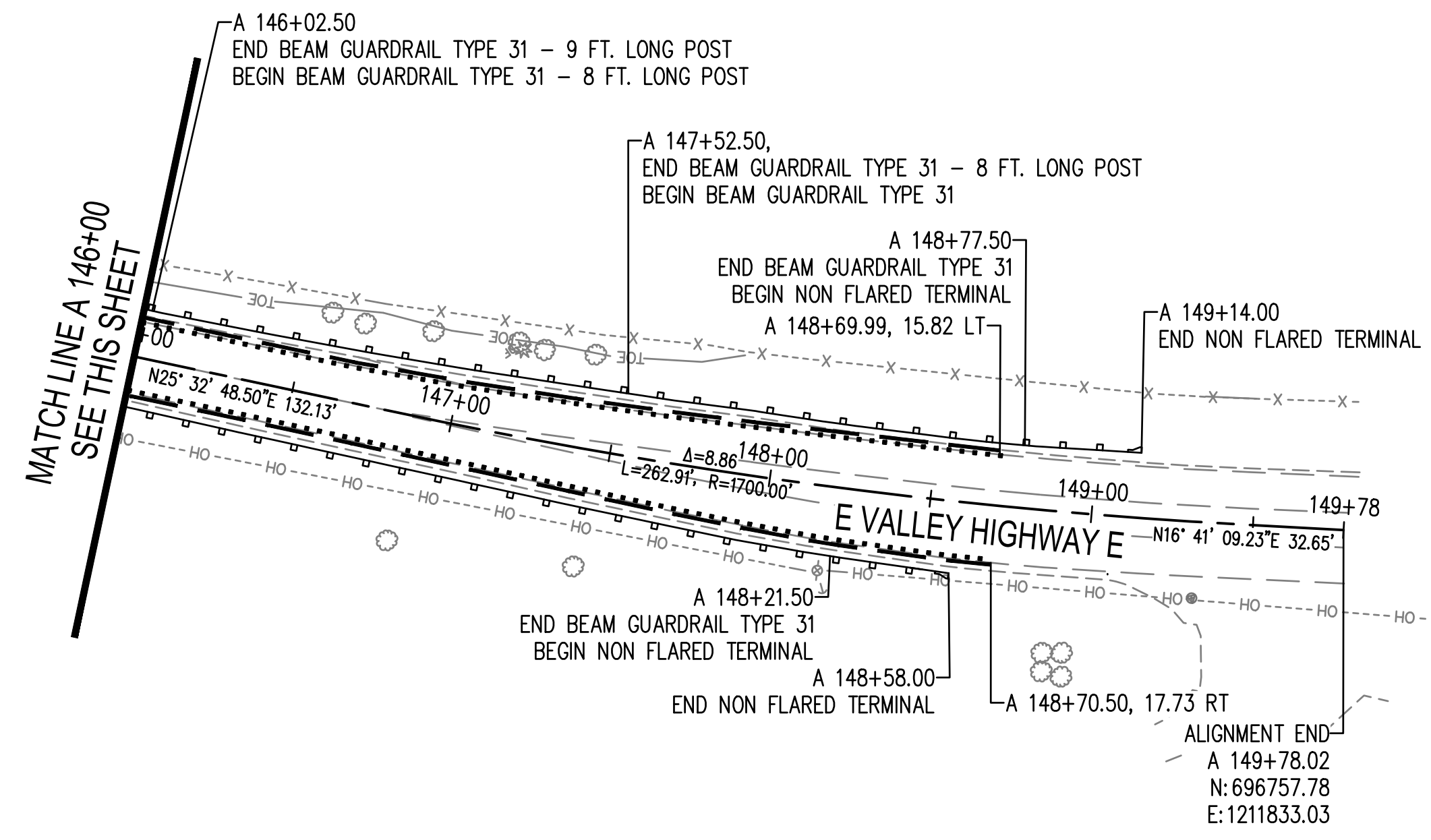
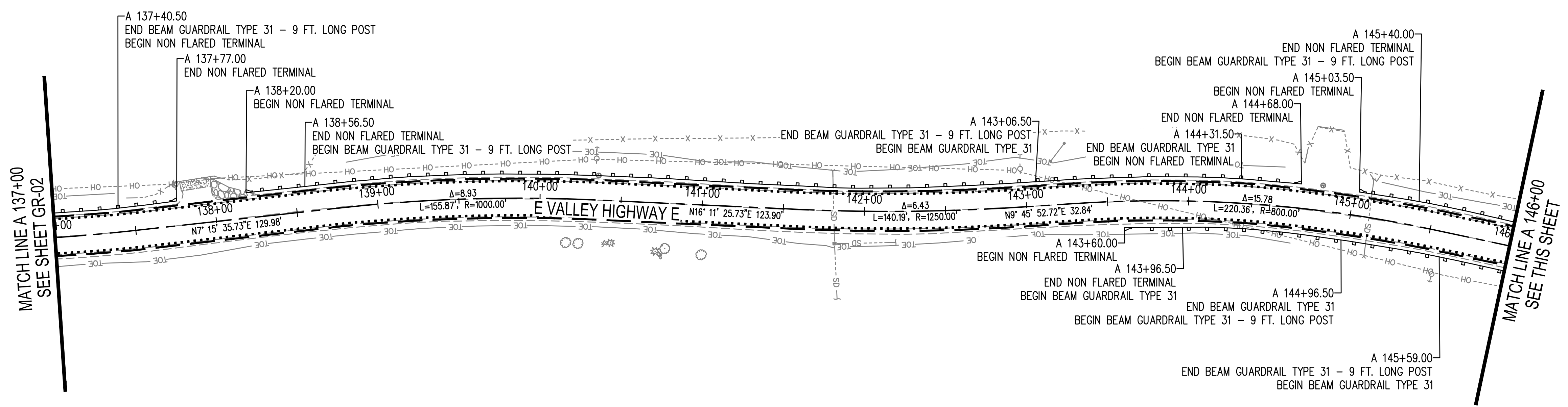
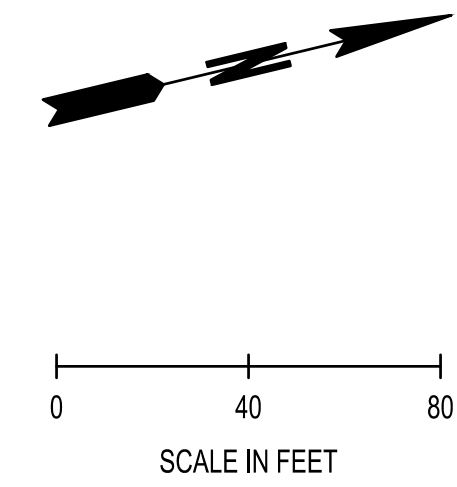
GENERAL NOTES

- CONTRACTOR TO VERIFY UTILITY CONFLICT
- CONTRACTOR TO SET FACE OF GUARDRAIL ONE FOOT OFF THE EDGE OF ASPHALT

CALL BEFORE YOU DIG

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						DRAWN BY: R. PIERCE	JOB No.: 23-001102					GUARDRAIL PLAN		SHEET No.: 04 OF 13
						APPROVED BY: P. HOLM	DRAWING FILE No.: _23-001102 GR-01							



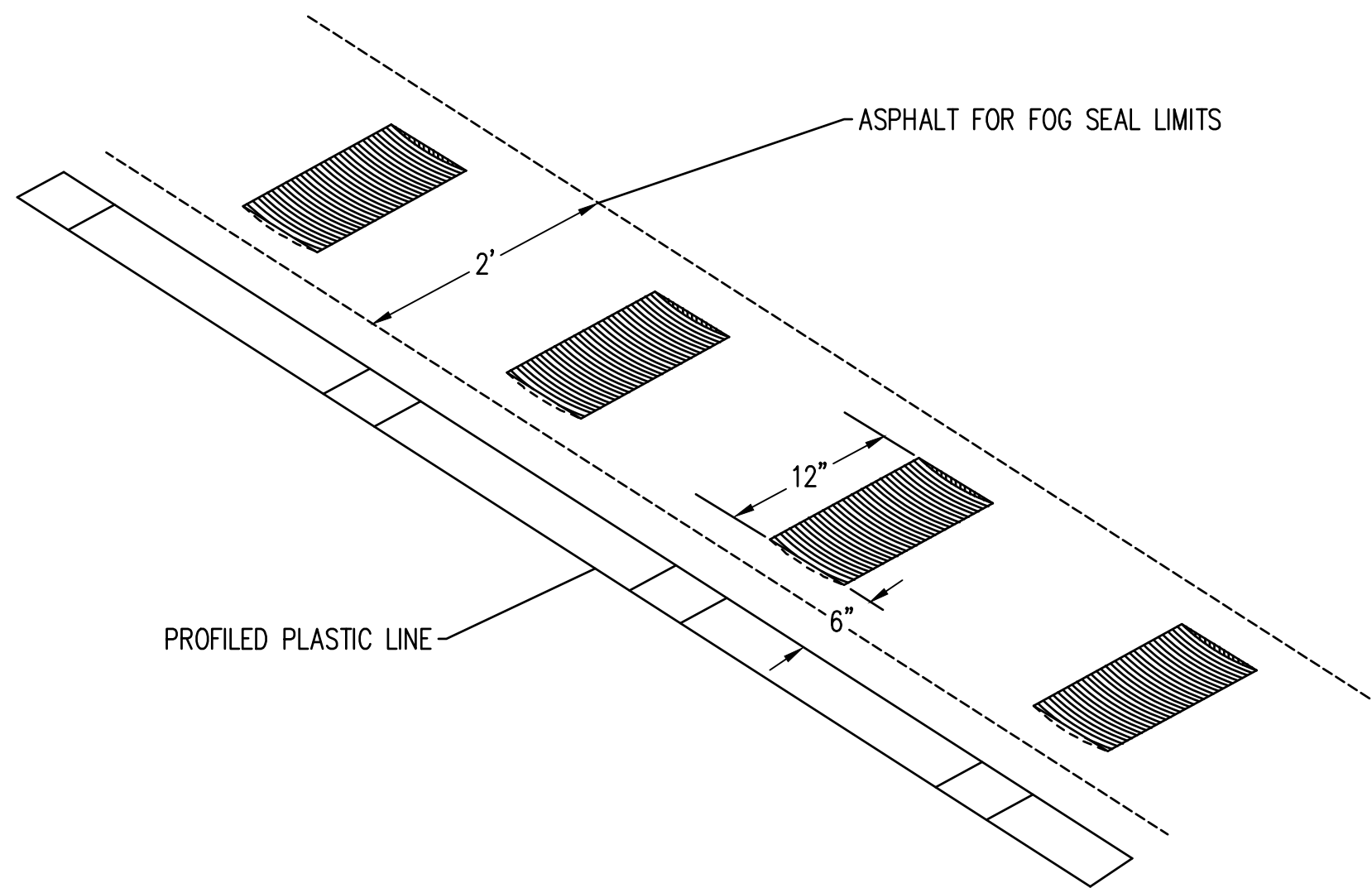
LEGEND	
	SINUSOIDAL SHOULDER RUMBLE STRIP (PER WSDOT STANDARD PLAN M-60.20)
	PROFILED PLASTIC EDGE LINE STRIPE (PER WSDOT STANDARD PLAN M-20.20)
	BEAM GUARDRAIL TYPE 31 (PER WSDOT STANDARD PLAN C-20.10)
	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL (PER WSDOT STANDARD PLAN C-22.45)
	EXISTING ILLUMINATION POLE
	EXISTING POWER POLE
	EXISTING CHANNELIZATION
	EXISTING EDGE OF ROADWAY

CALL BEFORE YOU DIG
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- GENERAL NOTES**
- CONTRACTOR TO VERIFY UTILITY CONFLICT
 - CONTRACTOR TO SET FACE OF GUARDRAIL ONE FOOT OFF THE EDGE OF ASPHALT

JUL 13, 2025 4:59:16pm - User: daniel.dad
\\V:\PROJECTS\025\025 - CITY OF SUMNER\23-001102 SUMNER SYSTEMIC HORIZONTAL CURVE IMP\CADD\23-001102 GR-01.DWG

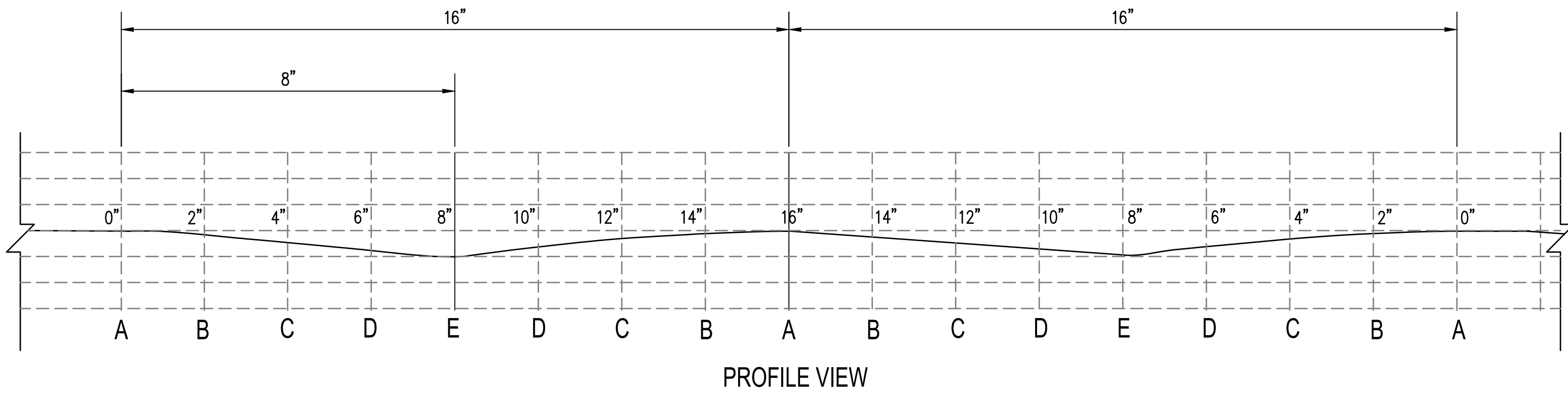
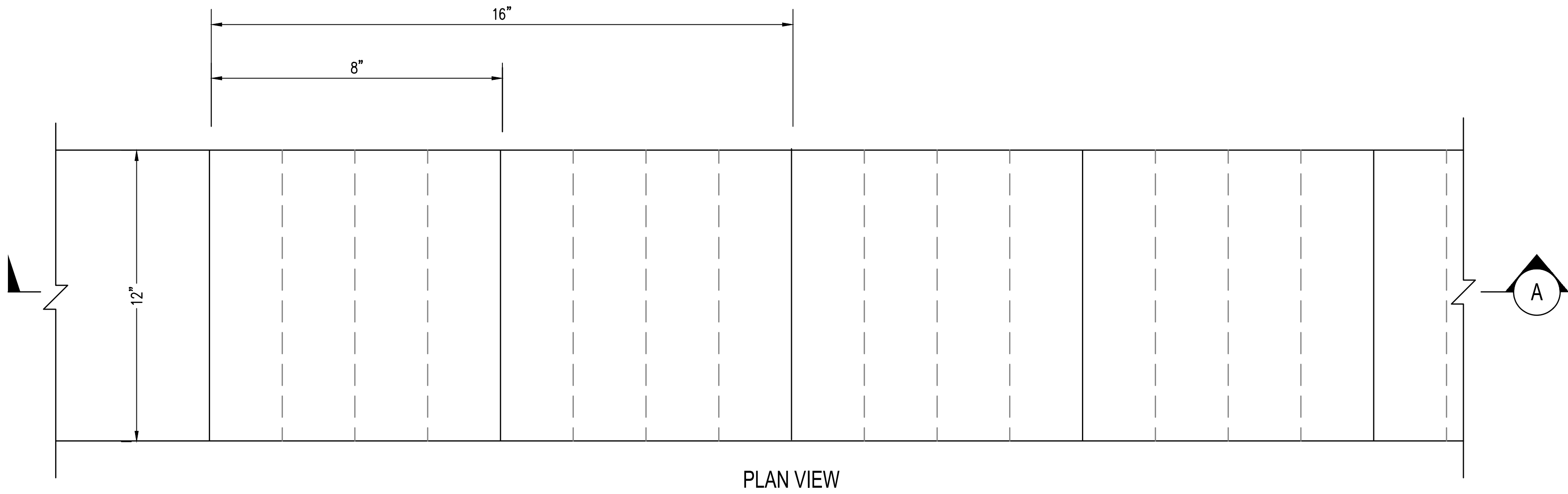
△	REVISIONS	DATE	BY	DESIGNED BY:	ISSUE DATE:	ALL DIMENSIONS SHOWN IN FEET UNLESS OTHERWISE DESIGNATED		 8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516 P: 360.352.1465 SCJALLIANCE.COM	PROJECT NAME: CITY OF SUMNER WASHINGTON	SYSTEMIC HORIZONTAL CURVE AND ROADWAY DEPARTURE SAFETY IMPROVEMENTS SUMNER, WASHINGTON		DRAWING No.:
				D. HALL	JULY 2026					GR-03		SHEET No.:
				DRAWN BY:	JOB No.:							
				R. PIERCE	23-001102							
				APPROVED BY:	DRAWING FILE No.:							
				P. HOLM	23-001102 GR-01							
										GUARDRAIL PLAN		05 OF 13



FOG SEAL LIMITS
SINUSOIDAL SHOULDER RUMBLE STRIP APPLICATION
PAID AS ASPHALT FOR FOG SEAL

- NOTES:
- FOR RUMBLE STRIPS PLACED ON SHOULDER, SEE STD. PLAN M-60.20 TYPE 2 FOR PLACEMENT DETAILS.
 - SEE SPECIAL PROVISION SECTION 8-08 SINUSOIDAL SHOULDER RUMBLE STRIP.

PROFILE DEPTHS	
LOCATION	DEPTH (IN)
A	0.00
B	0.10
C	0.25
D	0.45
E	0.50



SECTION **(A)**
SINUSOIDAL SHOULDER RUMBLE STRIP

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△	REVISIONS	DATE	BY

DESIGNED BY: D. HALL	ISSUE DATE: JULY 2026
DRAWN BY: N. SELBERG	JOB No.: 23-001102
APPROVED BY: P. HOLM	DRAWING FILE No.: 23-001102 GR-04

ALL DIMENSIONS
SHOWN IN FEET
UNLESS OTHERWISE
DESIGNATED





SCJ ALLIANCE
CONSULTING SERVICES

8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516
P: 360.352.1465
SCJALLIANCE.COM

PROJECT NAME:

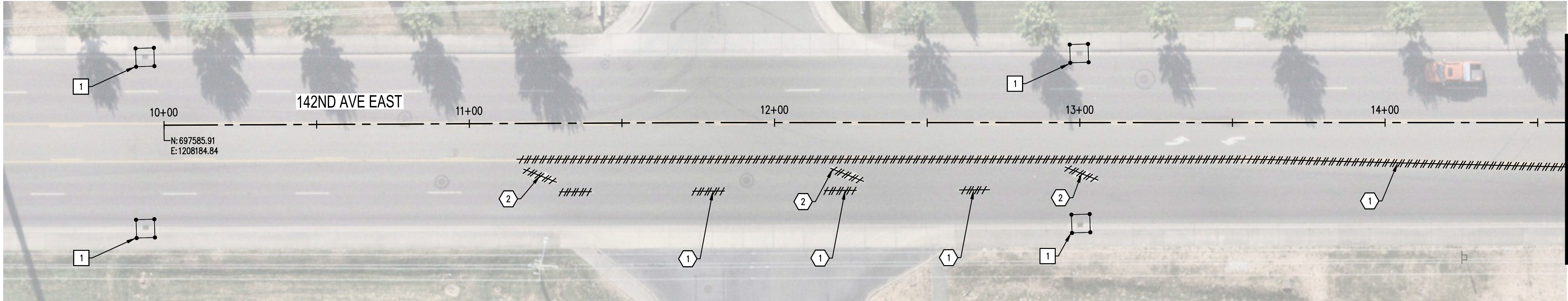


CITY OF
SUMNER
WASHINGTON

SYSTEMTIC HORIZONTAL CURVE AND ROADWAY
DEPARTURE SAFETY IMPROVEMENTS
SUMNER, WASHINGTON

GUARDRAIL DETAIL

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MATCH LINE A
SEE SHEET PM-02

LEGEND

REMOVE

EROSION CONTROL LEGEND

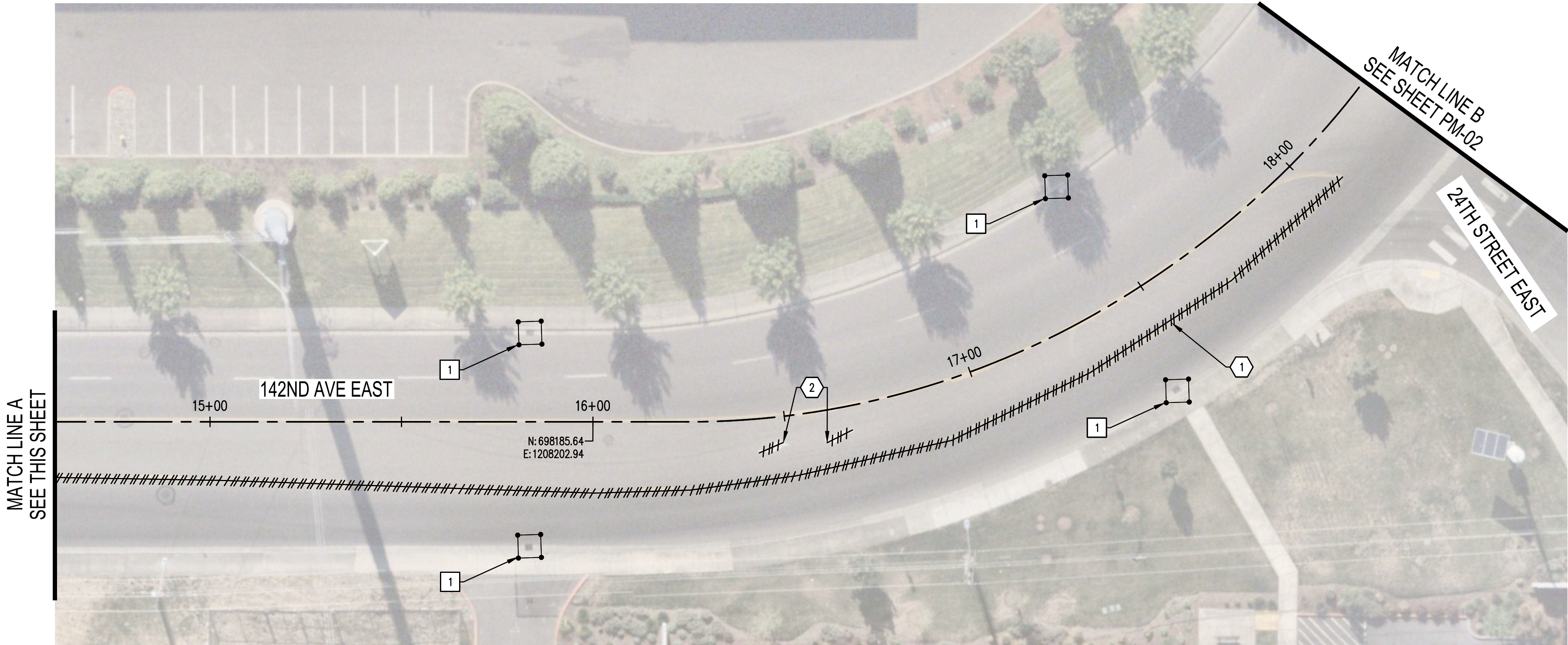
 INLET PROTECTION
(SEE WSDOT STANDARD PLAN I-40.20)

 DEMOLITION NOTES

1. REMOVE PAINT LINE
2. REMOVE TRAFFIC ARROW

 EROSION CONTROL NOTES

1. INLET PROTECTION (SEE WSDOT STANDARD PLAN I-40.20)



MATCH LINE A
SEE THIS SHEET

MATCH LINE B
SEE SHEET PM-02

24TH STREET EAST

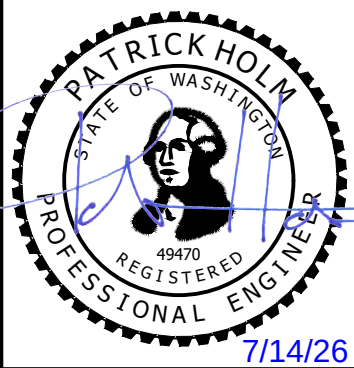
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△	REVISIONS	DATE	BY

DESIGNED BY: D. HALL	ISSUE DATE: JULY 2026
DRAWN BY: R. PIERCE	JOB No.: 23-001102
APPROVED BY: P. HOLM	DRAWING FILE No.: _23-001102 RM-01

ALL DIMENSIONS
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CONSULTING SERVICES
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P: 360.352.1465
SCJALLIANCE.COM

PROJECT NAME:

 **CITY OF SUMNER**
WASHINGTON

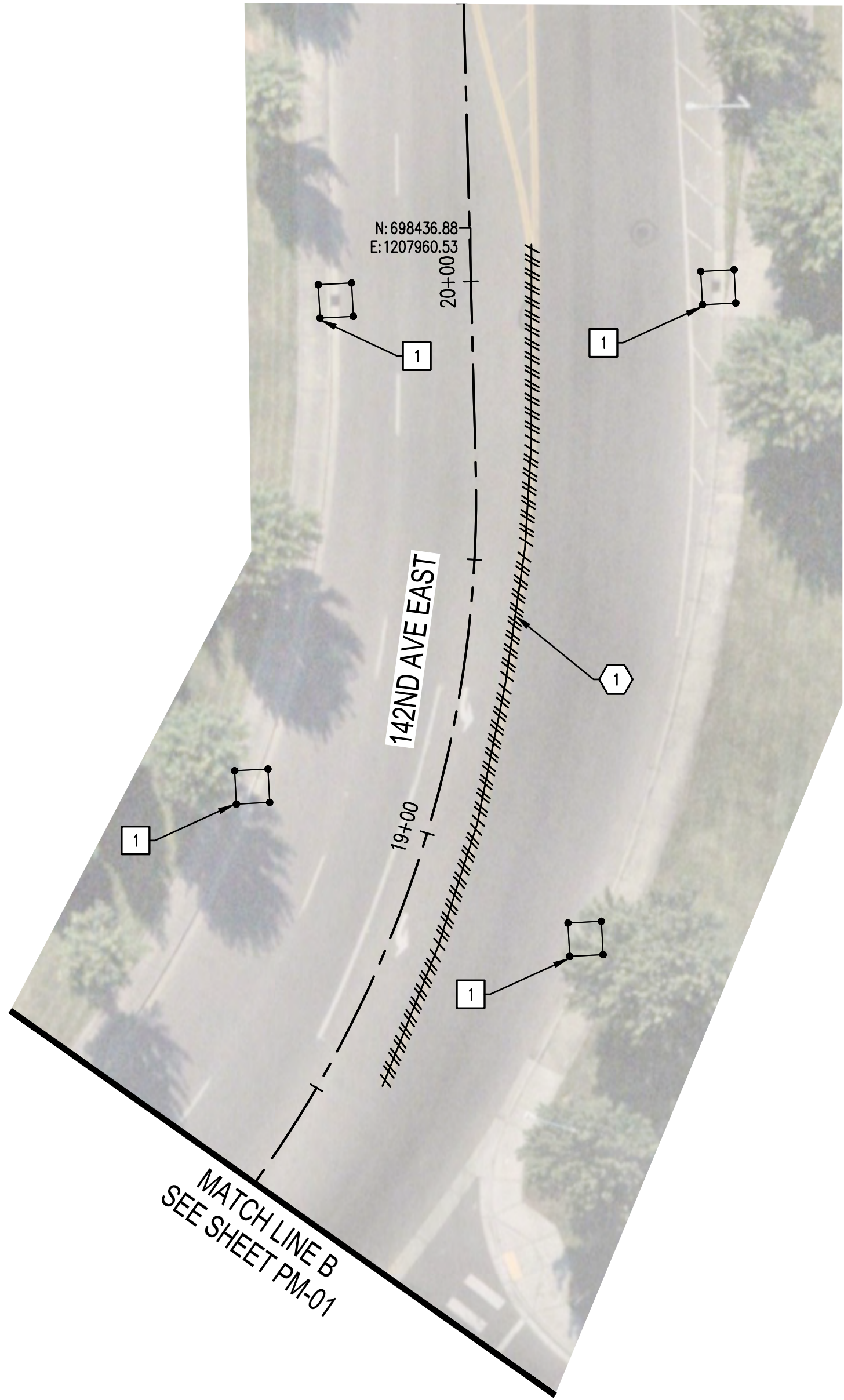
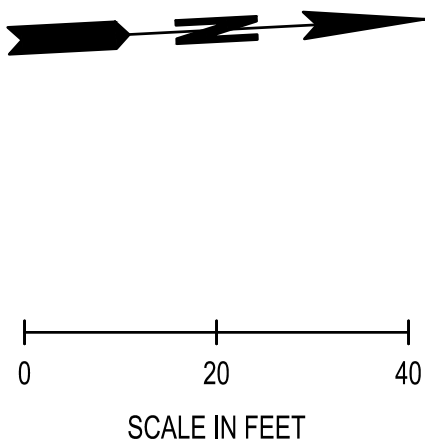
SYSTEMTIC HORIZONTAL CURVE AND ROADWAY
DEPARTURE SAFETY IMPROVEMENTS
SUMNER, WASHINGTON

REMOVAL PLAN

DRAWING No.:
RM-01

SHEET No.:
07 OF 13

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LEGEND

REMOVE

EROSION CONTROL LEGEND

 INLET PROTECTION
(SEE WSDOT STANDARD PLAN I-40.20)

 DEMOLITION NOTES

- 1. REMOVE PAINT LINE
- 2. REMOVE TRAFFIC ARROW

 EROSION CONTROL NOTES

- 1. INLET PROTECTION (SEE WSDOT STANDARD PLAN I-40.20)

CALL BEFORE YOU DIG

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DESIGNED BY: D. HALL	ISSUE DATE: JULY 2026
DRAWN BY: R. PIERCE	JOB No.: 23-001102
APPROVED BY: P. HOLM	DRAWING FILE No.: _23-001102 RM-01

ALL DIMENSIONS
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SCJ ALLIANCE
CONSULTING SERVICES

8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516
P: 360.352.1465
SCJALLIANCE.COM

PROJECT NAME:



CITY OF
SUMNER
WASHINGTON

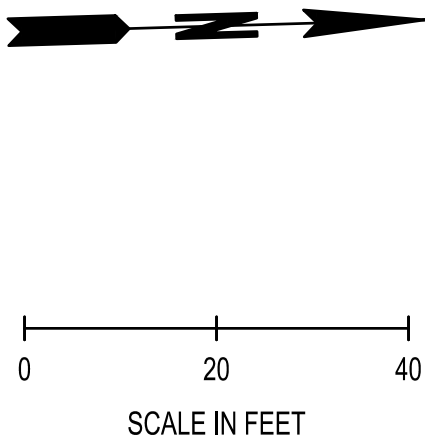
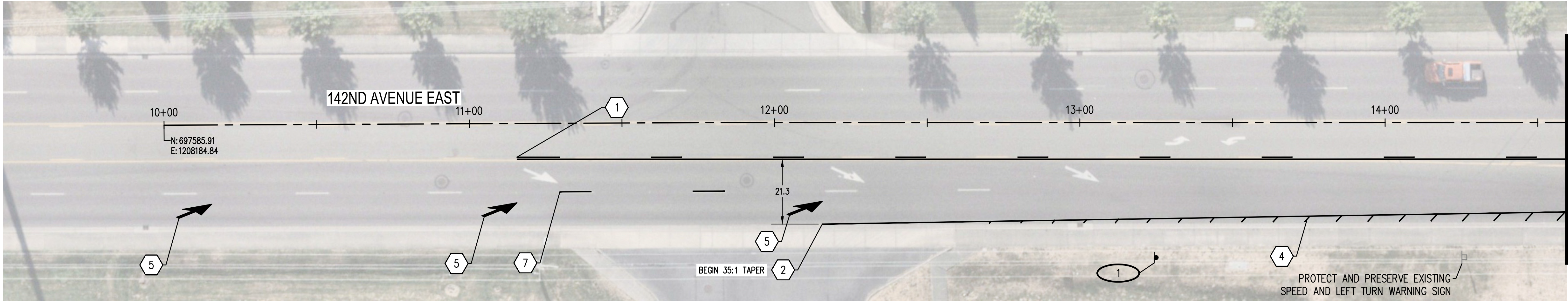
SYSTEMTIC HORIZONTAL CURVE AND ROADWAY
DEPARTURE SAFETY IMPROVEMENTS
SUMNER, WASHINGTON

REMOVAL PLAN

DRAWING No.:
RM-02

SHEET No.:
08 OF 13

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PAVEMENT MARKING NOTES

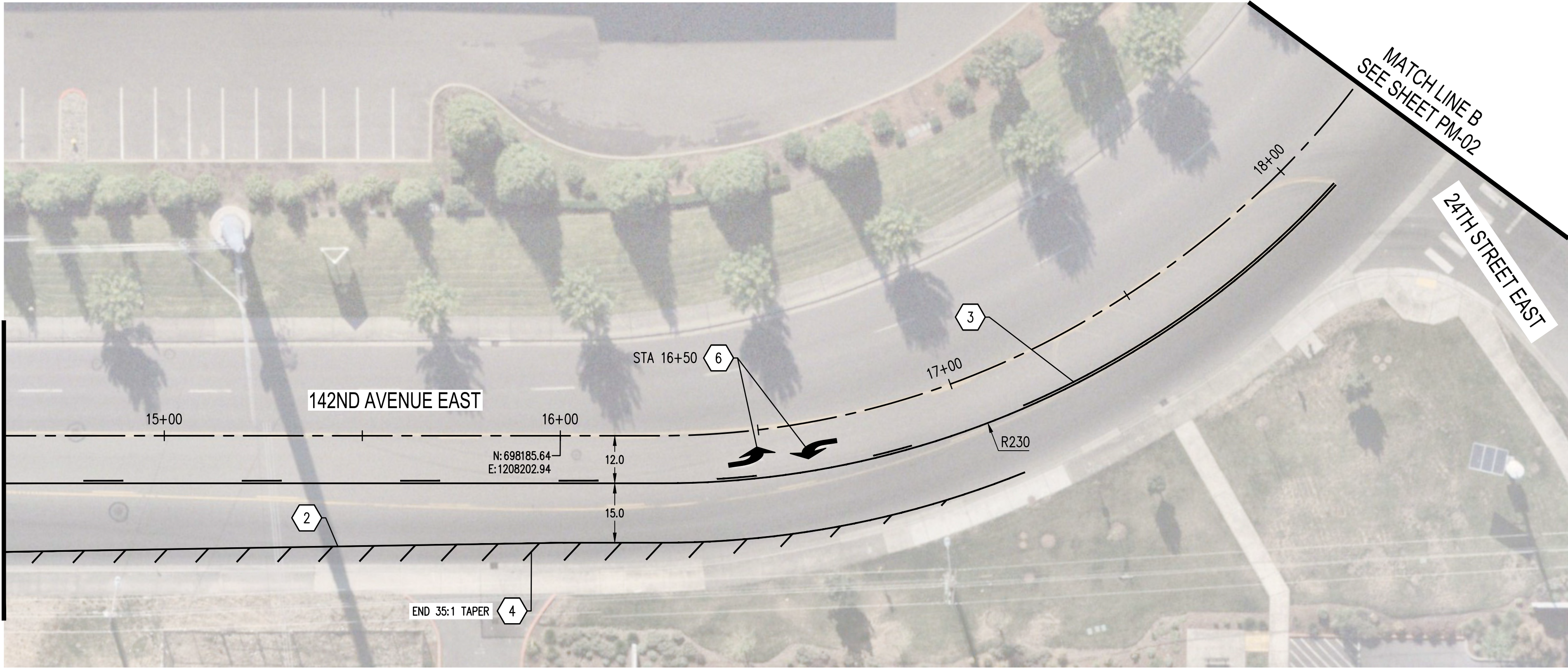
- ALL EDGE LINES ARE WHITE UNLESS OTHERWISE NOTED.
- ALL EXISTING PAVEMENT MARKING SHALL BE REMOVED WITHIN PROJECT LIMITS. PAID AS REMOVING MISCELLANEOUS TRAFFIC ITEM. CONTRACTOR SHALL CONFIRM NECESSARY REMOVALS PRIOR TO BID.
- THE CONTRACTOR SHALL REMOVE ALL RAISED PAVEMENT MARKING ASSOCIATED WITH PAVEMENT MARKING REMOVALS. PAID AS REMOVING MISCELLANEOUS TRAFFIC ITEM.
- CENTER TRAFFIC ARROWS IN MIDDLE OF DESIGNATED LANE.

PAVEMENT MARKING LEGEND

- 1 PAINTED TWO WAY LEFT TURN CENTERLINE (PER WSDOT STANDARD PLAN M-20.10)
- 2 PAINTED EDGE LINE (PER WSDOT STANDARD PLAN M-20.10)
- 3 PAINTED DOUBLE YELLOW CENTER LINE (PER WSDOT STANDARD PLAN M-20.10)
- 4 WHITE PAINTED DIAGONAL CROSSHATCH MARKING (PER WSDOT STANDARD PLAN M-24.60)
- 5 TYPE 6SL PLASTIC ARROW (PER WSDOT STANDARD PLAN M-24.40)
- 6 TWO WAY LEFT TURN (PER WSDOT STANDARD PLAN M-3.40)
- 7 PAINTED LANE LINE (PER STANDARD PLAN M-20.10)

SIGNING LEGEND

- X SIGN NOTE
- NEW SIGN ON POST
- EXISTING SIGN

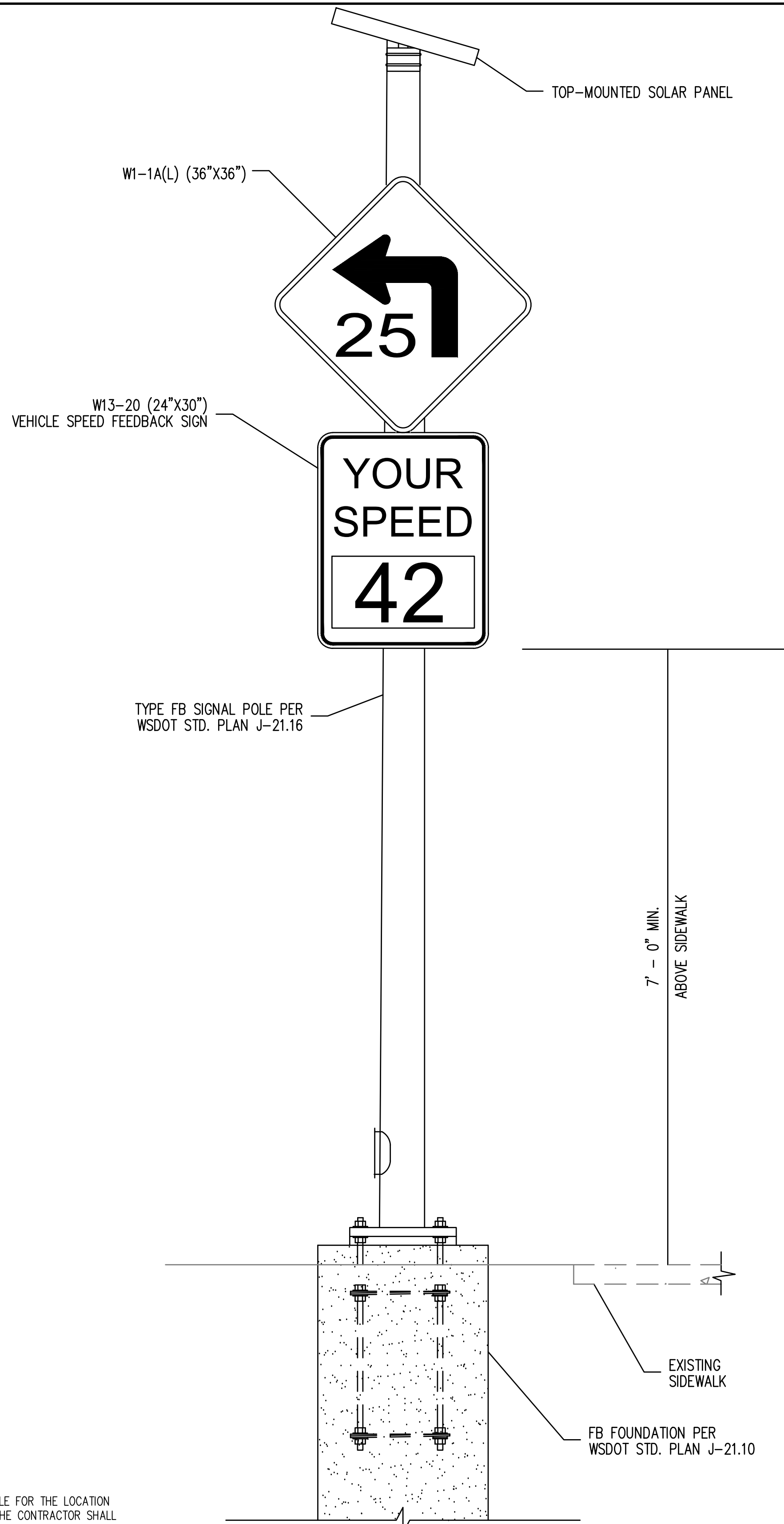


SIGN INSTALLATION TABLE		
SIGN #	DESCRIPTION	REMARKS
1	SOLAR DYNAMIC SPEED SIGN PER DETAIL ON SHEET PM-02	INSTALL CENTER OF FOUNDATION 4' FROM OUTSIDE EDGE OF EXISTING SIDEWALK.

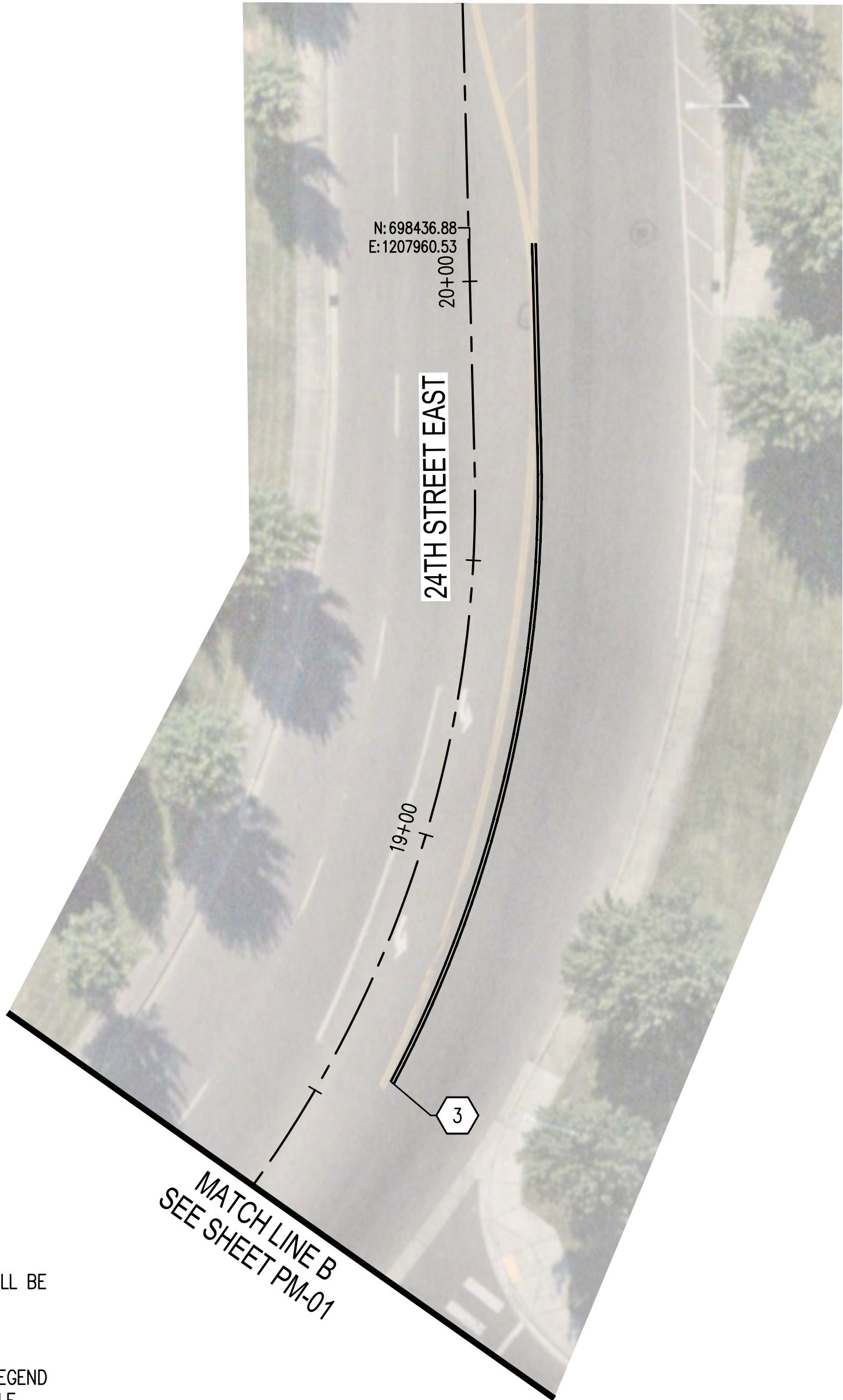
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						D. HALL	JULY 2026							PM-01
						DRAWN BY:	JOB No.:							SHEET No.:
						APPROVED BY:	DRAWING FILE No.:					CHANNELIZATION & SIGNING PLAN		09 OF 13



- NOTES:
1. SOLAR PANEL AND ALL ASSOCIATED EQUIPMENT SHALL BE ASSEMBLED PER MANUFACTURER RECOMMENDATIONS.
 2. THE LEGEND "YOUR SPEED" SHALL BE ON A YELLOW RETROREFLECTIVE BACKGROUND. THE CHANGEABLE LEGEND DISPLAYING THE SPEED OF THE APPROACHING VEHICLE SHALL BE A YELLOW LUMINOUS LEGEND ON A BLACK OPAQUE BACKGROUND.
 3. W1-1A SHALL BE BLACK ON YELLOW.



PAVEMENT MARKING NOTES

1. ALL EDGE LINES ARE WHITE UNLESS OTHERWISE NOTED.
2. ALL EXISTING PAVEMENT MARKING SHALL BE REMOVED WITHIN PROJECT LIMITS. PAID AS REMOVING MISCELLANEOUS TRAFFIC ITEM. CONTRACTOR SHALL CONFIRM NECESSARY REMOVALS PRIOR TO BID.
3. THE CONTRACTOR SHALL REMOVE ALL RAISED PAVEMENT MARKING ASSOCIATED WITH PAVEMENT MARKING REMOVALS. PAID AS REMOVING MISCELLANEOUS TRAFFIC ITEM.
4. CENTER TRAFFIC ARROWS IN MIDDLE OF DESIGNATED LANE.

PAVEMENT MARKING LEGEND

- 1. PAINTED TWO WAY LEFT TURN CENTERLINE (PER WSDOT STANDARD PLAN M-20.10)
- 2. PAINTED EDGE LINE (PER WSDOT STANDARD PLAN M-20.10)
- 3. PAINTED DOUBLE YELLOW CENTER LINE (PER WSDOT STANDARD PLAN M-20.10)

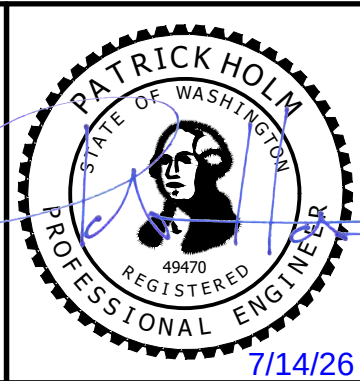
CALL BEFORE YOU DIG
THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

SOLAR DYNAMIC SPEED SIGN DETAIL
NTS

△	REVISIONS	DATE	BY

DESIGNED BY: D. HALL	ISSUE DATE: JULY 2026
DRAWN BY: R. PIERCE	JOB No.: 23-001102
APPROVED BY: P. HOLM	DRAWING FILE No.: _23-001102 PM-01

ALL DIMENSIONS
SHOWN IN FEET
UNLESS OTHERWISE
DESIGNATED





8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516
P: 360.352.1465
SCJALLIANCE.COM

PROJECT NAME:



SYSTEMTIC HORIZONTAL CURVE AND ROADWAY
DEPARTURE SAFETY IMPROVEMENTS
SUMNER, WASHINGTON

CHANNELIZATION & SIGNING PLAN

DRAWING No.:
PM-02

SHEET No.:
10 OF 13

JUL 13, 2025 1:55:50pm - User: daniel.hall
\\V:\PROJECTS\2025\025 CITY OF SUMNER\23-001102 SUMNER SYSTEMIC HORIZONTAL CURVE IMP\CAD\23-001102 PM-01.DWG

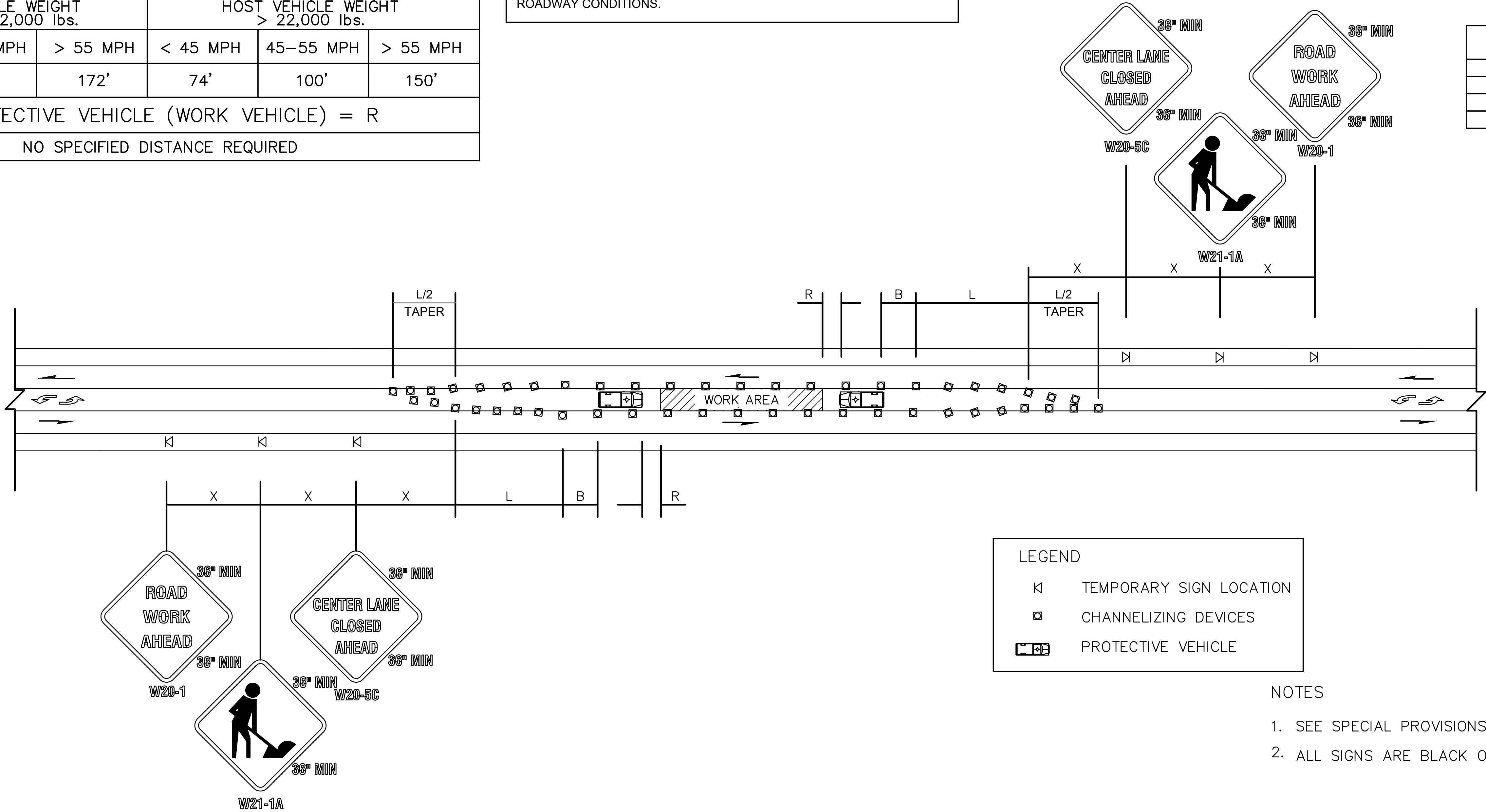
BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.					HOST VEHICLE WEIGHT > 22,000 lbs.					
< 45 MPH	45–55 MPH		> 55 MPH		< 45 MPH	45–55 MPH		> 55 MPH		
100'	123'		172'		74'	100'		150'		
PROTECTIVE VEHICLE (WORK VEHICLE) = R										
NO SPECIFIED DISTANCE REQUIRED										

SIGN SPACING = X (1)		
RURAL ROADS	45 / 55 MPH	500' □
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' □
RURAL ROADS & URBAN ARTERIALS	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	-	-	-	-
11	115	165	225	295	495	550	-	-	-	-
12	125	180	245	320	540	600	-	-	-	-

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



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CENTER TURN LANE
CLOSURE – 3 LANE ROADWAY

NOT TO SCALE

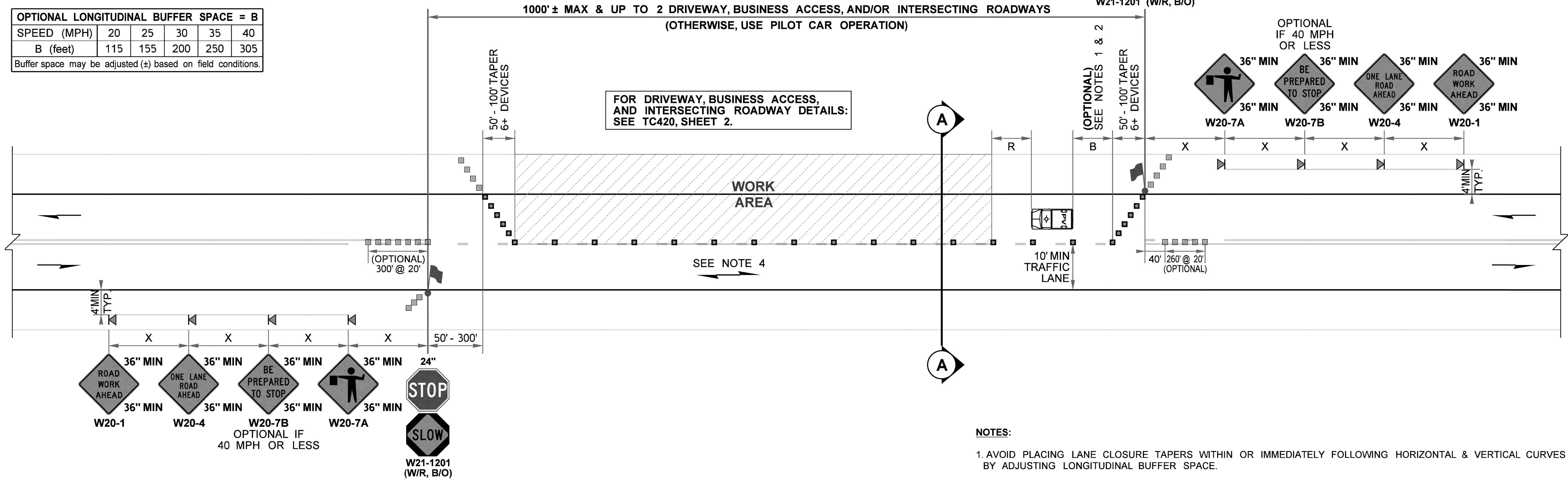
△	REVISIONS	DATE	BY	DESIGNED BY:	ISSUE DATE:	ALL DIMENSIONS SHOWN IN FEET UNLESS OTHERWISE DESIGNATED		 8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516 P: 360.352.1465 SCJALLIANCE.COM	PROJECT NAME: CITY OF SUMNER WASHINGTON	SYSTEMIC HORIZONTAL CURVE AND ROADWAY DEPARTURE SAFETY IMPROVEMENTS SUMNER, WASHINGTON		DRAWING No.:
				D. HALL	JULY 2026							TC-01
				DRAWN BY:	JOB No.:							SHEET No.:
				R. PIERCE	23-001102							11 OF 13
				APPROVED BY:	DRAWING FILE No.:					TRAFFIC CONTROL PLAN		
				P. HOLM	_23-001102 TC-01							

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

OPTIONAL LONGITUDINAL BUFFER SPACE = B					
SPEED (MPH)	20	25	30	35	40
B (feet)	115	155	200	250	305
Buffer space may be adjusted (±) based on field conditions.					

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
35 - 40	10-20	60
20 - 30	10-20	40

PROTECTIVE VEHICLE ROLL AHEAD DISTANCE = R
STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW. 40' - 80' RECOMMENDED.



- NOTES:**
1. AVOID PLACING LANE CLOSURE TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE.
 2. PROTECTIVE VEHICLE MAY ALWAYS BE USED ON ROADWAYS 40 MPH OR LESS, EVEN IF THE LONGITUDINAL BUFFER SPACE IS REDUCED OR ELIMINATED. ADDITIONAL PVs MAY BE ADDED AT SEPARATE WORK CREWS.
 3. MAY SHIFT Laterally. 36" TRAFFIC CONES, 42" TALL CHANNELIZATION DEVICES, OR TRAFFIC SAFETY DRUMS OK.
 4. PEDESTRIAN & BICYCLIST ACCOMMODATIONS (ENGINEER TO ACCEPT ANY ALTERNATIVE STRATEGIES):
(A) ALLOW PEDESTRIANS TO USE THE PAVED SHOULDER OR ADJACENT PATH OPPOSITE THE WORK AREA
(B) COMBINE BIKES & VEHICULAR TRAFFIC BIKES TO CLEAR PRIOR TO RELEASING ONCOMING TRAFFIC
(C) PROVIDE FREE SHUTTLE (WORK TRUCK, VAN, OR BUS MAY BE USED)
 5. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
1-07.8(1) HIGH-VISIBILITY APPAREL
1-10.3(1)A FLAGGERS AND NIGHTTIME ILLUMINATION
1-10.3(2)A TRAFFIC CONTROL PROCEDURES
9-35.1 24-INCH STOP/SLOW PADDLE SIZE
 6. FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.
 7. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
 8. ACTUAL CENTERLINE PAVEMENT MARKINGS MAY VARY.

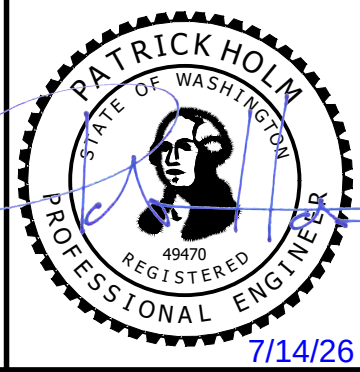
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DESIGNED BY: D. HALL	ISSUE DATE: JULY 2026
DRAWN BY: R. PIERCE	JOB No.: 23-001102
APPROVED BY: P. HOLM	DRAWING FILE No.: _23-001102 TC-02

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SCJ ALLIANCE
CONSULTING SERVICES

8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516
P: 360.352.1465
SCJALLIANCE.COM

PROJECT NAME:

CITY OF SUMNER
WASHINGTON

SYSTEMIC HORIZONTAL CURVE AND ROADWAY
DEPARTURE SAFETY IMPROVEMENTS
SUMNER, WASHINGTON

TRAFFIC CONTROL PLAN

DRAWING No.:
TC-02

SHEET No.:
12 OF 13

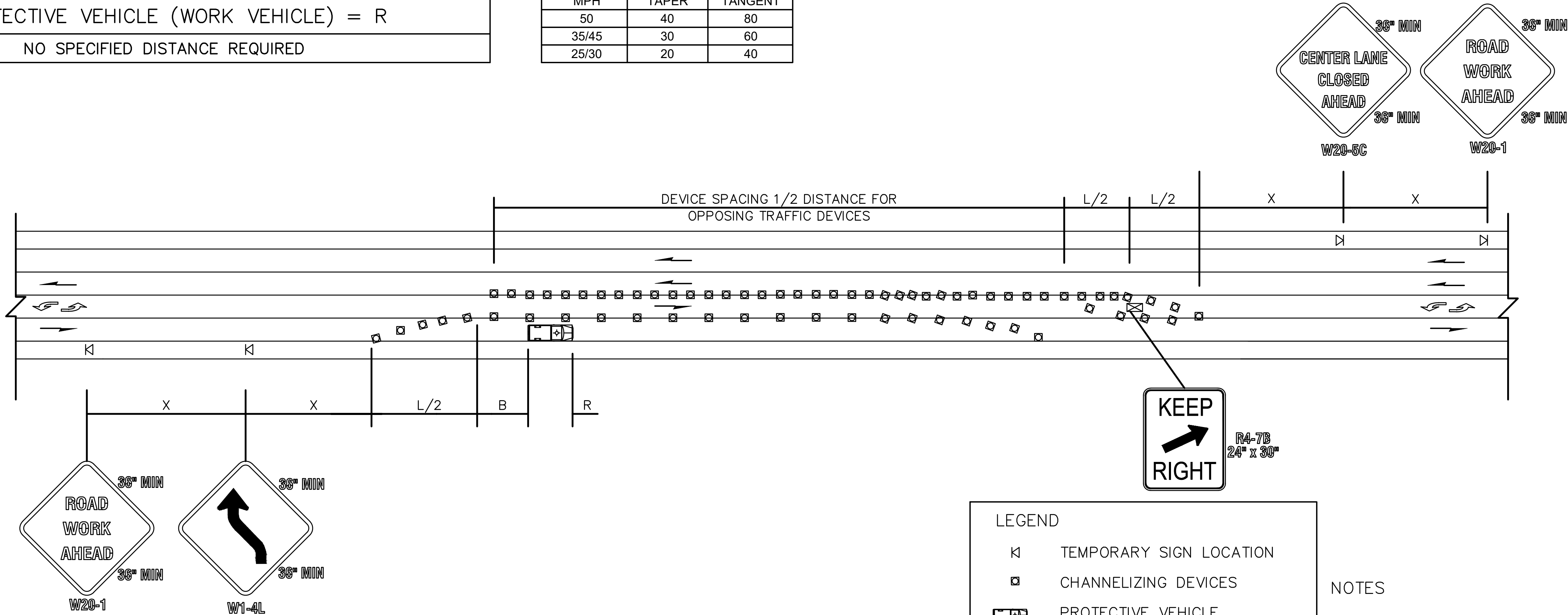
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BUFFER DATA										
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< 45 MPH	45–55 MPH	> 55 MPH		< 45 MPH	45–55 MPH	> 55 MPH				
100'	123'	172'		74'	100'	150'				
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SIGN SPACING = X (1)		
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RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' □ (2)
RESIDENTIAL & BUSINESS DISTRICTS		
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CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50	40	80
35/45	30	60
25/30	20	40

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
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10	105	150	205	270	450	500	-	-	-	-
11	115	165	225	295	495	550	-	-	-	-
12	125	180	245	320	540	600	-	-	-	-



LEGEND	
K	TEMPORARY SIGN LOCATION
□	CHANNELIZING DEVICES
🚚	PROTECTIVE VEHICLE
⊠	SIGN LOCATION ~ 5' MOUNTING HEIGHT – RECOMMENDED

- NOTES
- FOR LONG TERM PROJECTS CONFLICTING PAVEMENT MARKINGS NO LONGER APPLICABLE MUST BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE. TEMPORARY MARKINGS SHALL BE USED AS NECESSARY AND SIGNS SHALL BE POST MOUNTED.
 - FOR SPEED LIMITS OF 30 MPH OR LESS, USE SIGN W1–3 IN LIEU OF SIGN W1–4.
 - EXTEND DEVICE TAPER ACROSS SHOULDER ID APPLICABLE.
 - PROTECTIVE VEHICLE WITH TMA REQUIRED FOR ROADWAYS 45 MPH OR HIGHER. FOR ROADS 40 MPH OR LESS – SHALL BE A WORK VEHICLE PLACED STRATEGICALLY TO SHIELD WORK AREA.
 - ADDRESS PEDESTRIAN CONTROL THROUGH OR AROUND THE WORK AREA.

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△ REVISIONS	DATE	BY	DESIGNED BY: D. HALL	ISSUE DATE: JULY 2026	ALL DIMENSIONS SHOWN IN FEET UNLESS OTHERWISE DESIGNATED		 8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516 P: 360.352.1465 SCJALLIANCE.COM	PROJECT NAME: CITY OF SUMNER WASHINGTON	SYSTEMTIC HORIZONTAL CURVE AND ROADWAY DEPARTURE SAFETY IMPROVEMENTS SUMNER, WASHINGTON	DRAWING No.: TC-03