

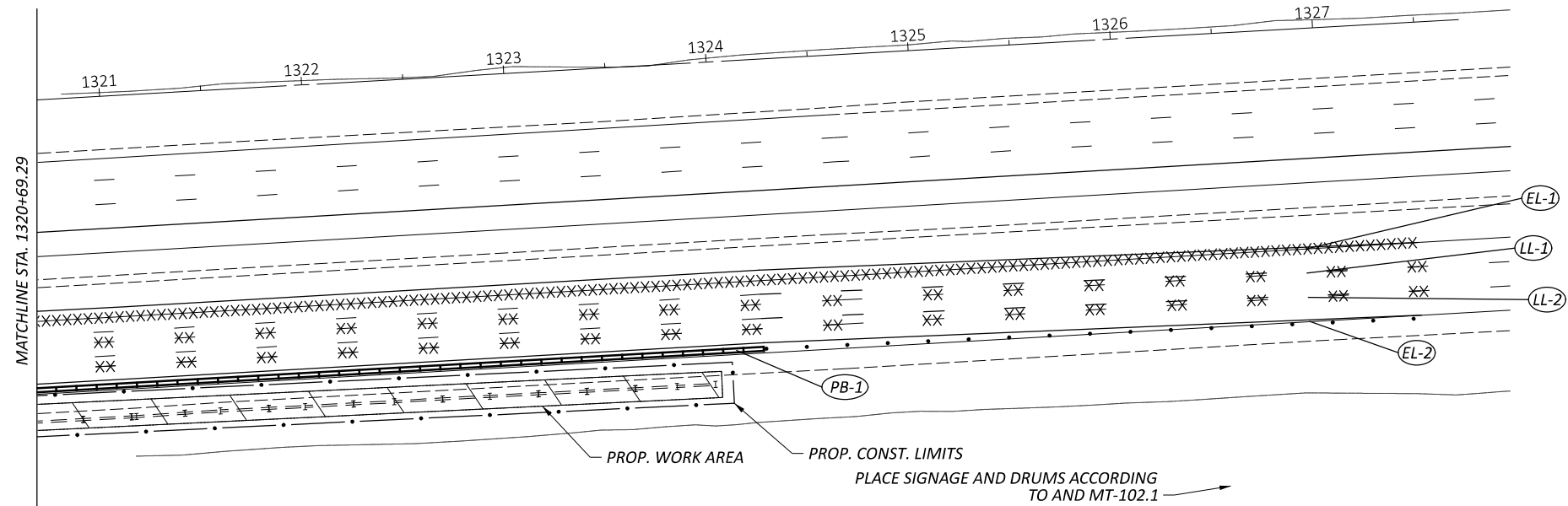
LOCATION 6: FRA-270-26.36 SHOULDER CLOSURE PLAN

REF	ITEM	DESCRIPTION	QTY	UNIT
PB-1	622	PORTABLE BARRIER, UNANCHORED	250	FT
PB-1	614	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	1	EACH
PB-1	614	OBJECT MARKER, ONE WAY	6	EACH
PB-1	614	BARRIER REFLECTOR, TYPE 1 (1 WAY)	6	EACH
PB-1	614	INCREASED BARRIER DELINEATION	250	FT
GR-1	606	GUARDRAIL, TYPE 5	50	FT
GR-1	202	GUARDRAIL REMOVED	50	FT
GR-1	626	BARRIER REFLECTOR, TYPE 2, ONE WAY	1	EACH

NOTES:

1. INSTALL SHOULDER CLOSURE ACCORDING TO MT-95.45. SIGNAGE AND OTHER ITEMS NOT SHOWN IN THIS DRAWING SHALL BE INCLUDED IN LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC.





LOCATION 7: FRA-270-31.59 SHOULDER CLOSURE PLAN

NOTES:

1. INSTALL SHOULDER CLOSURE ACCORDING TO MT-95.45. SIGNAGE AND OTHER ITEMS NOT SHOWN IN THIS DRAWING SHALL BE INCLUDED IN THE LUMP SUM BID ITEM 614 MAINTAINING TRAFFIC.
2. INSTALL 5 FOOT LANE SHIFT ACCORDING TO MT-102.10. SIGNAGE AND OTHER ITEMS NOT SHOWN IN THIS DRAWING SHALL BE INCLUDED IN THE LUMP SUM BID ITEM 614 MAINTAINING TRAFFIC.
3. QUANTITIES FOR PERMANENT STRIPING HAVE BEEN PROVIDED IN THE ESTIMATED QUANTITIES TABLE BELOW. RESTORE ANY EXISTING PAVEMENT MARKINGS REMOVED FOR MOT PURPOSES IN THE SAME LOCATIONS PRIOR TO REMOVAL.

REFERENCE	614	614	614	614	614	614	622		644	644
	INCREASED BARRIER DELINEATION	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	BARRIER REFLECTOR, TYPE 1	OBJECT MARKER, ONE WAY	WORKZONE LANE LINE, CLASS I, 6"	WORK ZONE EDGE LINE, CLASS I, 6"	PORTABLE BARRIER, UNANCHORED		EDGE LINE, 6"	LANE LINE, 6"
	FT	EACH	EACH	EACH	MILE	MILE	FT		MILE	MILE
PB-1	1280	1	27	27			1280			
LL-1					0.49					0.44
LL-2					0.49					0.44
EL-1						0.49			0.44	
EL-2						0.49				
TOTALS	1280	1	27	27	0.98	0.98	1280		0.44	0.88




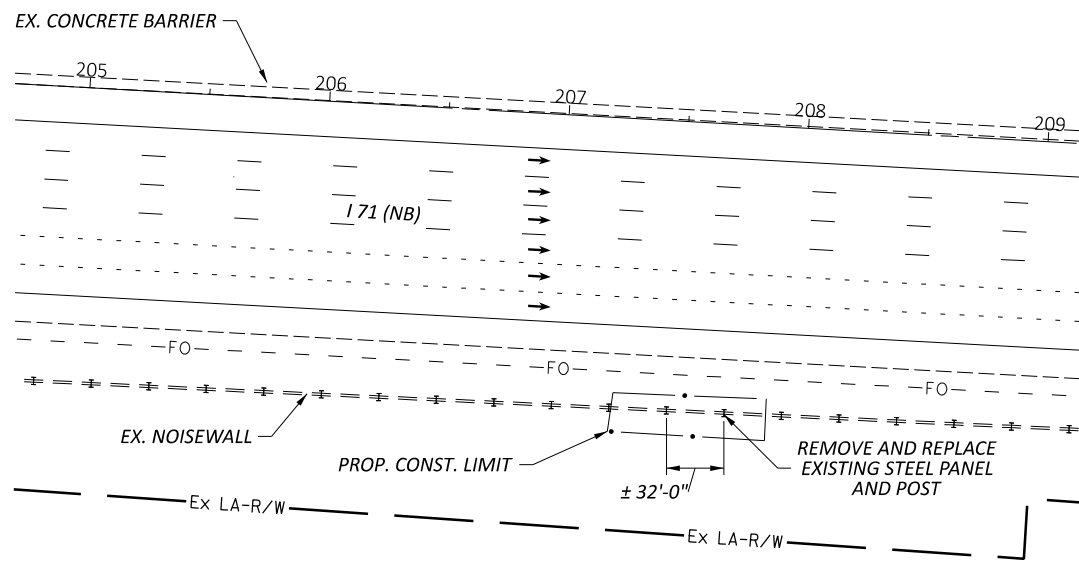
SHEET NUM.												PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
4	6	7	8	9	11	13	14	15	17	18	19	20	01/IMS/20	EXT	TOTAL			
ROADWAY																		
LS													LS	201	11000	LS	CLEARING AND GRUBBING	
								52					52	202	30700	52	FT	
		50		50									162.5	202	38000	162.5	FT	
		50		50									62.5	162.5	606	13000	162.5	
								52					52	622	24001	52	FT	
EROSION CONTROL																		
375													375	659	00510	375	SY	
0.03													0.03	659	20000	0.03	TON	
0.08													0.08	659	31000	0.08	ACRE	
1													1	659	35000	1	MGAL	
													1,000	832	30000	1,000	EACH	
TRAFFIC CONTROL																		
		1		1									1	626	00102	1	EACH	
													2	626	00110	2	EACH	
													0.44	644	00104	0.44	MILE	
													0.88	644	00204	0.88	MILE	
NOISE BARRIERS																		
						2							3	202	98100	3	EACH	
						1,044	120		650	120			9,170	202	98400	9,170	SF	
								1,748	811				2,559	513	10201	2,559	LB	
						1,044	120			120			8,520	SPECIAL	60610210	8,520	SF	
							2			2			4	SPECIAL	60610720	4	EACH	
						2							3	SPECIAL	60610810	3	EACH	
								994	650				1,644	SPECIAL	60610920	1,644	SF	
								1,565					1,565	SPECIAL	60610930	1,565	FT	
MAINTENANCE OF TRAFFIC																		
	40												40	614	11110	40	HOUR	
		290	400	250	1,280								2,220	614	11630	2,220	FT	
		1	1	1	1								4	614	12380	4	EACH	
		7	5	6	27								45	614	13310	45	EACH	
		7	4	6	27								44	614	13350	44	EACH	
													2	614	18601	2	SNMT	
					0.98								0.98	614	20010	0.98	MILE	
					0.98								0.98	614	22010	0.98	MILE	
		290	400	250	1,280								2,220	622	41100	2,220	FT	
INCIDENTALS																		
													LS	614	11000	LS	MAINTAINING TRAFFIC	
													LS	623	10000	LS	CONSTRUCTION LAYOUT STAKES AND SURVEYING	
													LS	624	10000	LS	MOBILIZATION	

0.44
0.88

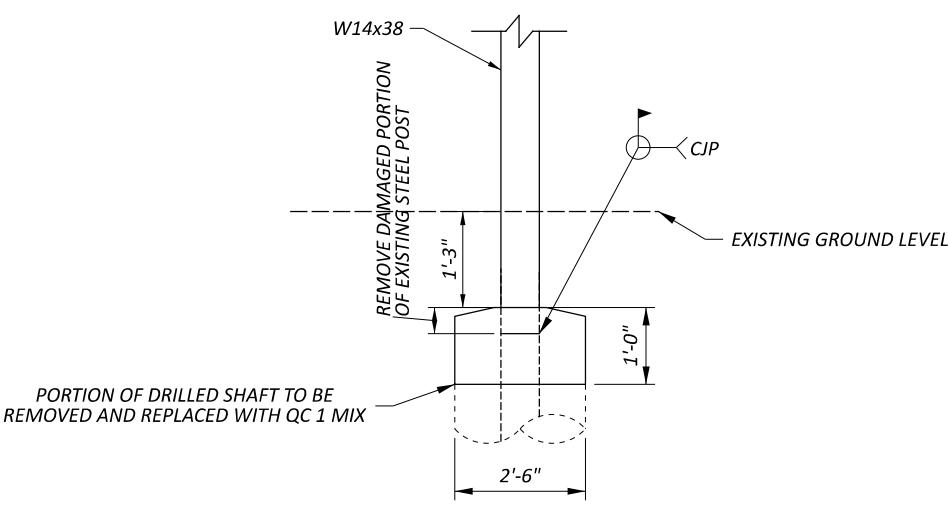
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GENERAL SUMMARY

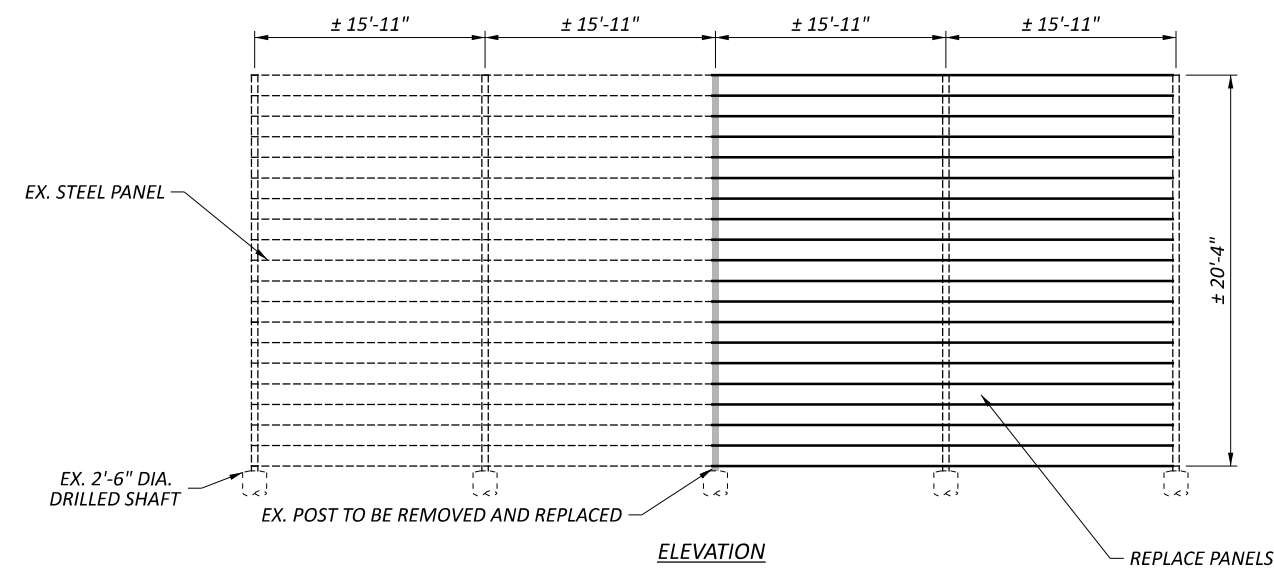
DESIGN AGENCY

 DESIGNER
CAB
 REVIEWER
JPH 11/17/23
 PROJECT ID
108986
 SHEET TOTAL
 12 | 22



PLAN



PARTIAL ELEVATION

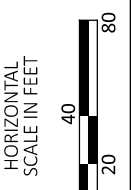


ELEVATION

NOTES:

- SUPPLY NEW ANGLE-LOK NOISE PANELS FROM EMPIRE ACOUSTICAL SYSTEMS. REFER TO MANUFACTURER'S DETAILS AND SHOP DRAWINGS FOR ADDITIONAL INFORMATION. ALL HARDWARE, FLASHING, AND INCIDENTALS FOR INSTALLATION IS INCLUDED WITH THE BID PRICE FOR 606 SPECIAL- NOISE BARRIER, STEEL PANEL. PANELS AND COLOR SHALL MATCH AS CLOSE AS POSSIBLE TO EXISTING ADJACENT PANELS.

ESTIMATED QUANTITIES				
ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION
202	98400	650	SF	NOISE BARRIER PANEL REMOVAL AND DISPOSAL
513	10201	811	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN
606	10920	650	SF	NOISE BARRIER, STEEL PANEL
QUANTITIES CARRIED TO GENERAL SUMMARY				



NOISE WALL REPAIR PLAN & ELEVATION
 LOCATION 4: FRA-71-29.62

DESIGN AGENCY

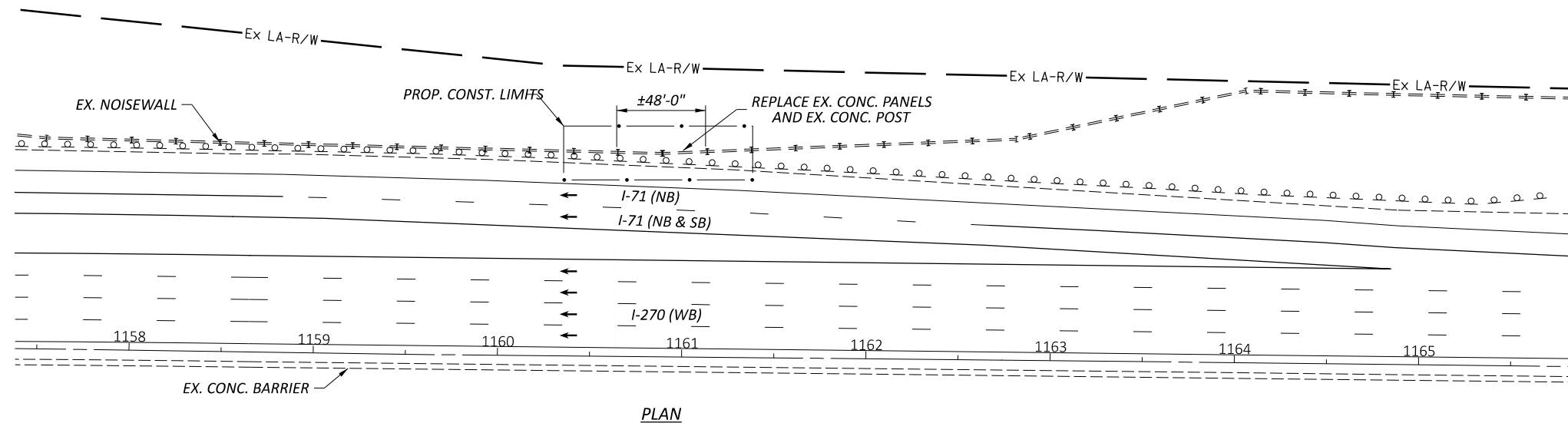


DESIGNER
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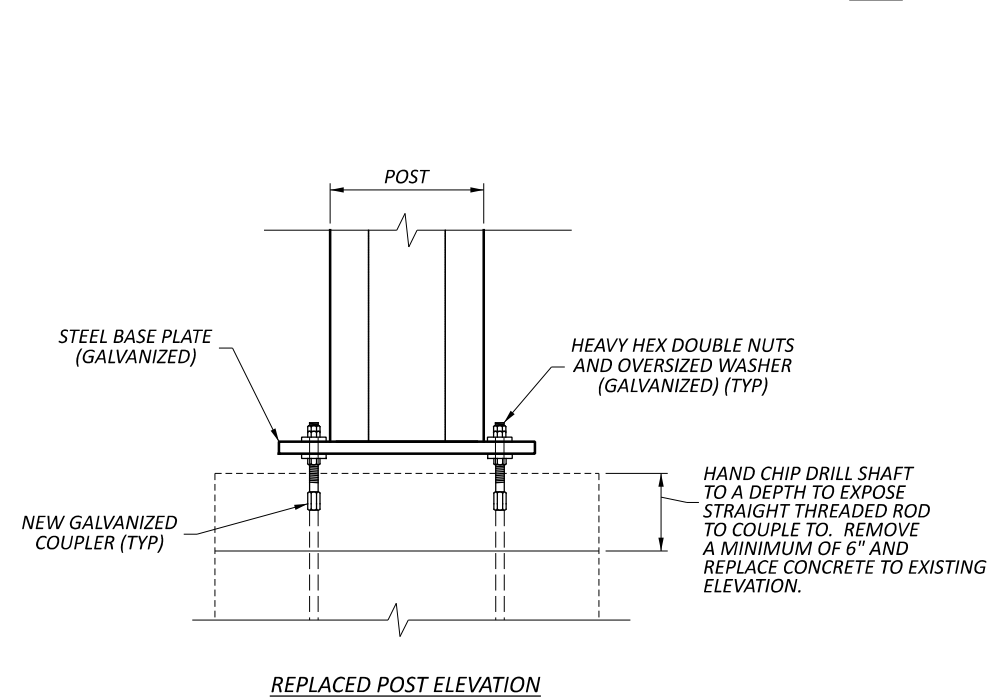
REVIEWER
 JPH 11/17/23

PROJECT ID
 108986

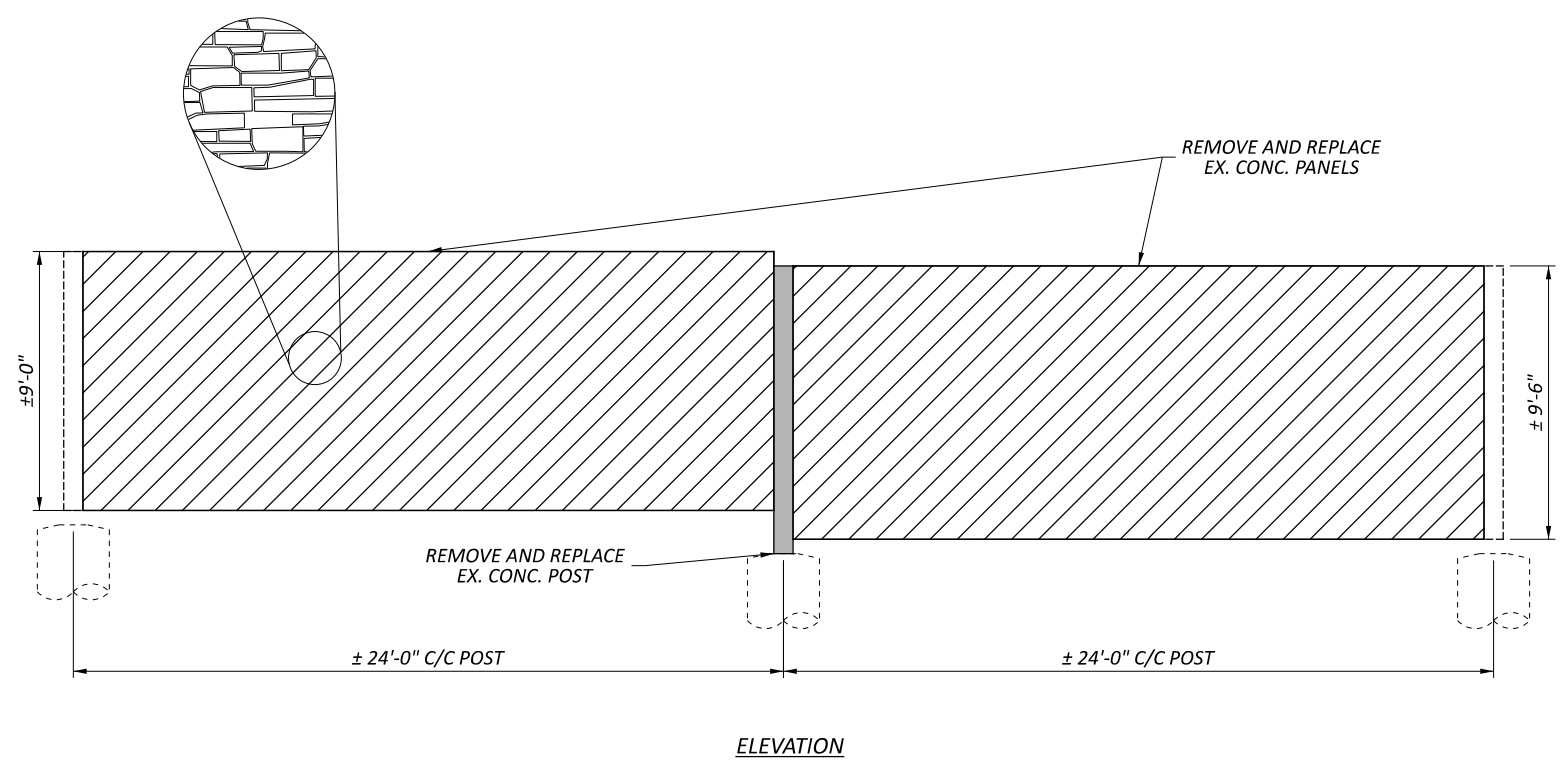
SHEET TOTAL
 17 22



PLAN



REPLACED POST ELEVATION



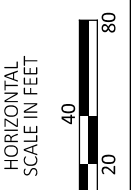
ELEVATION

NOTES:

1. REMOVE AND REPLACE DAMAGED REINFORCED CONCRETE PANELS (±24'-0" X ±10'-0" EACH) WITH REFLECTIVE CONCRETE PANEL. PATTERN AND COLOR FOR ROADWAY SIDE ARE ARCHITECTURAL POLYMERS LARGE STONE OHIO DRystack #9110 OR ENGINEER APPROVED EQUAL AND GREY (FEDERAL COLOR 16515). STONE PATTERN FOR RESIDENTIAL SIDE IS ARCHITECTURAL POLYMERS ASHLAR #905 OR ENGINEER APPROVED EQUAL. MATCH STONE SIZE SHAPE, COLOR, AND MORTAR JOINT SIZE. THE NUMBER, SIZE AND LAYOUT OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH NBS-1-09. CONTRACTOR SHALL CONFIRM PANEL MEASUREMENTS, TEXTURE, COLOR, AND REINFORCING BAR LAYOUT. THESE DETAILS MUST BE APPROVED BY THE ENGINEER PRIOR TO CASTING THE PANEL.
2. INSPECTION OF EXISTING BOLT SIZE AND HARDWARE WAS NOT POSSIBLE DURING DESIGN. ONCE DAMAGED PANELS HAVE BEEN REMOVED, THE CONTRACTOR SHALL INSPECT AND ENSURE ALL SIZES OF BOLT, NUTS, AND ADDITIONAL HARDWARE NECESSARY FOR THE REPAIR IS ACCOUNTED FOR PRIOR TO ORDERING.
3. THE BEARING PADS SHALL BE A MINIMUM OF 1/4" THICK AND COVER A MINIMUM OF 25 SQUARE INCHES. THE BEARING PADS SHALL CONFORM TO ODOT C&MS 711.21 PREFORMED BEARING PADS.
4. FOR ADDITIONAL DETAILS REFER TO STANDARD DRAWING NBS-1-09.

- PROPOSED NOISEWALL TO BE REMOVED AND REPLACED
- PROPOSED CONCRETE POST TO BE REMOVED AND REPLACED

ESTIMATED QUANTITIES				
ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION
202	38000	62.5	FT	GUARDRAIL REMOVED
202	98100	1	EACH	CONCRETE POST REMOVAL
202	98400	444	SF	NOISE BARRIER PANEL REMOVAL AND DISPOSAL
606	13000	62.5	FT	GUARDRAIL, TYPE 6
606	10210	444	SF	NOISE BARRIER (REFLECTIVE)
606	10810	1	EACH	NOISE BARRIER CONCRETE POST
QUANTITIES CARRIED TO GENERAL SUMMARY				



NOISE WALL REPAIR PLAN & ELEVATION
LOCATION 6: FRA-270-26.36

DESIGN AGENCY



DESIGNER

CAB

REVIEWER

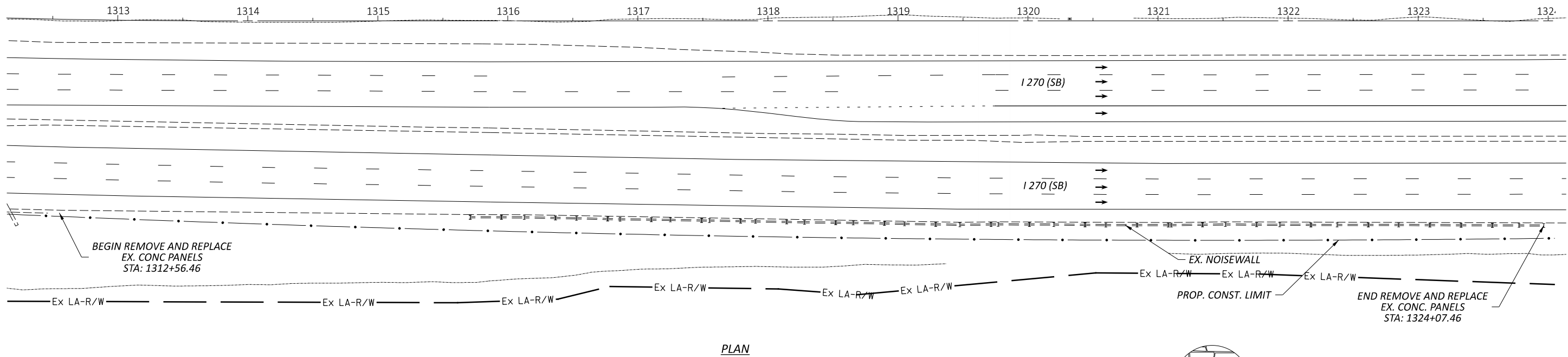
JPH 11/17/23

PROJECT ID

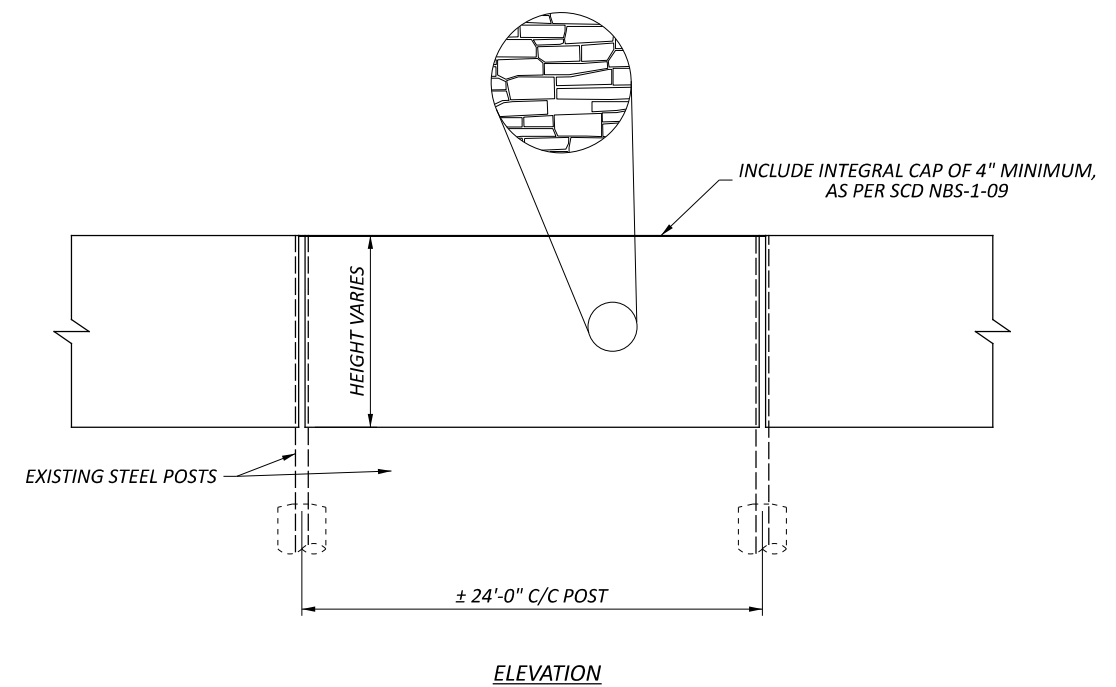
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SHEET TOTAL

19 22



PLAN



ELEVATION

NOTES:

- 1: REMOVE AND REPLACE REINFORCED CONCRETE PANELS AND CAPS TO THE LIMITS PROVIDED WITH REFLECTIVE CONCRETE PANELS. PATTERN AND COLOR FOR ROADWAY SIDE ARE ARCHITECTURAL POLYMERS LARGE STONE OHIO DRYSTACK #9110 OR ENGINEER APPROVED EQUAL AND BEIGE (FEDERAL COLOR 17778). STONE PATTERN FOR RESIDENTIAL SIDE IS ARCHITECTURAL POLYMERS ASHLAR #905 OR ENGINEER APPROVED EQUAL. THE NUMBER AND LAYOUT OF STEEL REINFORCEMENT SHALL BE IN ACCORDANCE WITH NBS-1-09. THE CONTRACTOR MUST CONFIRM PANEL MEASUREMENTS AND SIZES PRIOR TO ORDERING.
- 2: THE BEARING PADS SHALL BE A MINIMUM THICKNESS OF 1/8" AND COVER A MINIMUM OF 25 SQUARE INCHES BEARING SURFACE.
- 3: FOR ESTIMATED PANEL HEIGHTS AND LENGTHS SEE SHEETS 20-21.

ESTIMATED QUANTITIES				
ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION
202	98400	6792	SF	NOISE BARRIER PANEL REMOVAL AND DISPOSAL
606	10210	6792	SF	NOISE BARRIER (REFLECTIVE)
QUANTITIES CARRIED TO GENERAL SUMMARY				



NOISE WALL REPAIR PLAN & ELEVATION
 LOCATION 7: FRA-270-31.59

DESIGN AGENCY



DESIGNER
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