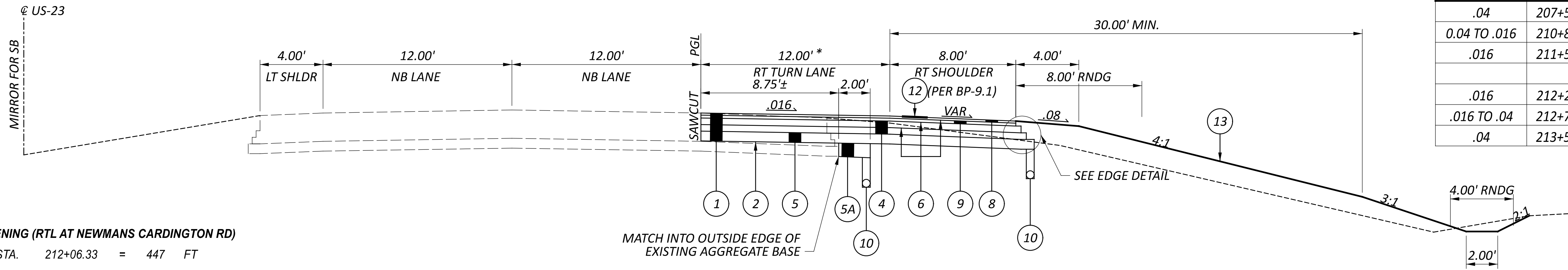


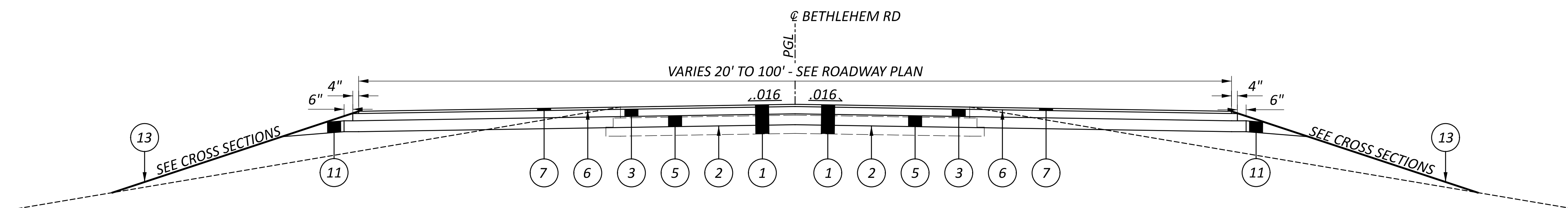
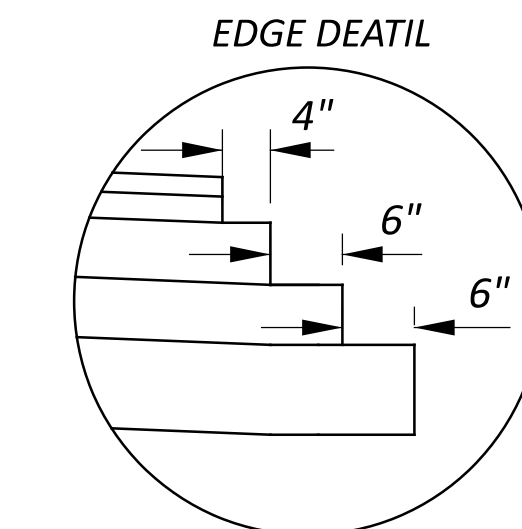
* = 0' TO 12' FROM STA. 207+59.20 TO STA. 208+09.20
 = 12' TO 0' FROM STA. 216+12.99 TO STA. 216+62.99

RT SHOULDER CROSS SLOPE		
CROSS SLOPE	BEGIN STA.	END STA.
.04	207+59.20	210+84.20
0.04 TO .016	210+84.20	211+59.20
.016	211+59.20	212+06.45
.016	212+27.34	212+77.97
.016 TO .04	212+77.97	213+52.97
.04	213+52.97	216+62.99



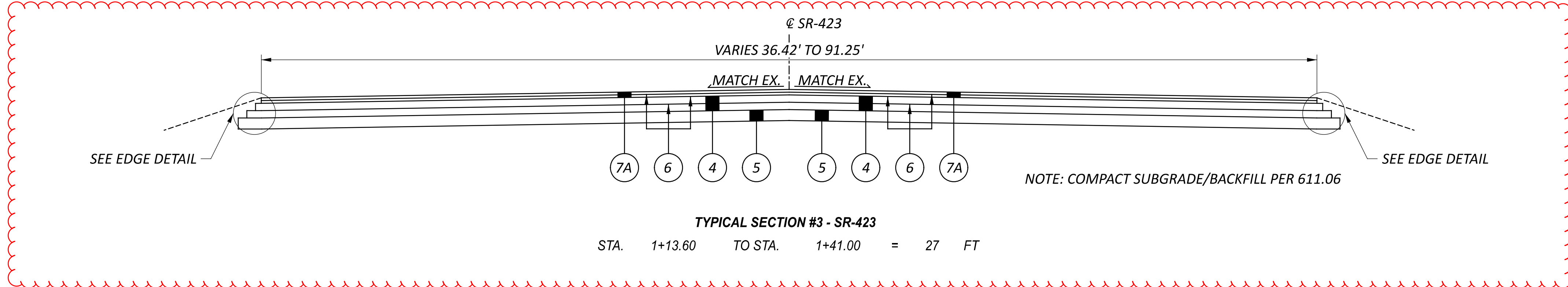
TYPICAL SECTION #1 - US-23 WIDENING (RTL AT NEWMANS CARDINGTON RD)

STA. 207+59.20 TO STA. 212+06.33 = 447 FT
 STA. 212+27.34 TO STA. 216+62.99 = 436 FT



TYPICAL SECTION #2 - BETHLEHEM RD

STA. 37+77.00 TO STA. 38+22.70 = 46 FT
 STA. 41+32.06 TO STA. 41+77.06 = 45 FT



TYPICAL SECTION #3 - SR-423

STA. 1+13.60 TO STA. 1+41.00 = 27 FT

LEGEND

- ① ITEM 202 - PAVEMENT REMOVED, AS PER PLAN
- ② ITEM 204 - SUBGRADE COMPACTION
- ③ ITEM 301 - 4" ASPHALT CONCRETE BASE, PG64-22, (449)
- ④ ITEM 301 - 8" ASPHALT CONCRETE BASE, PG64-22, (449) (TWO 4" LIFTS)
- ⑤ ITEM 304 - 6" AGGREGATE BASE
- ⑤A ITEM 304 - 8" AGGREGATE BASE, AS PER PLAN
- ⑥ ITEM 407 - NON-TRACKING TACK COAT (APPLICATION RATE PER CMS TABLE 407.06-1)

- ⑦ ITEM 441 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22
- ⑦A ITEM 441 - 3.00" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 (TWO 1.50" LIFTS)
- ⑧ ITEM 442 - 1.50" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449)
- ⑨ ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (449)
- ⑩ ITEM 605 - 6" BASE PIPE UNDERDRAINS
- ⑪ ITEM 605 - AGGREGATE DRAINS
- ⑫ ITEM 618 - RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)
- ⑬ ITEM 659 - SEEDING AND MULCHING

TYPICAL SECTIONS
 PROP. US-23, BETHLEHEM RD, AND SR-423

DESIGN AGENCY



DESIGNER
 AMH

REVIEWER
 GD 09/08/23

PROJECT ID
 118182

SHEET TOTAL
 P.6 P.78

MAR-23-3.32/3.93, MAR-423-1.60

MODEL: 118182_GG001 PAPER: 34x42 (in.) DATE: 1/4/2024 TIME: 8:57:12 AM USER: ahollaw1
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SHEET NUMBER								PARTICIPATION			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
								01/SAF/21	02/NHS/44	03/STR/44						
P.8	P.9-P.11	P.12	P.22	P.23	P.24	P.56	P.64									
				2				2					ROADWAY			
				1									HEADWALL REMOVED			
			3431					3431					HEADWALL REMOVED, AS PER PLAN	P.8		
				145				133	12				PAVEMENT REMOVED, AS PER PLAN	P.8		
				92					92				PIPE REMOVED, 24" AND UNDER			
													PIPE REMOVED, OVER 24"			
				1									MANHOLE REMOVED			
				80				80					FENCE REMOVED			
					1718			1716	2				EXCAVATION			
					2049			2044	5				EMBANKMENT			
			2935					2935					SUBGRADE COMPACTION			
74								74					EXCAVATION OF SUBGRADE			
74								74					GRANULAR MATERIAL, TYPE B			
4								4					PROOF ROLLING			
222								222					GEOTEXTILE FABRIC			
				352		10154		352	10154				FENCE, TYPE 47			
						9			9				GATE, TYPE 47, AS PER PLAN	P.8		
								LS					INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS			
													EROSION CONTROL			
				4				4					TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT			
				1055				1055					TOPSOIL			
				9476				9414	62				SEEDING AND MULCHING			
				474				471	3				REPAIR SEEDING AND MULCHING			
				474				471	3				INTER-SEEDING			
				1.28				1.27	0.01				COMMERCIAL FERTILIZER			
				1.96				1.95	0.01				LIME			
				51.18				50.82	0.36				WATER			
				5131				5069	62				SLOPE EROSION PROTECTION			
								LS	LS	LS			STORM WATER POLLUTION PREVENTION PLAN			
								LS	LS	LS			STORM WATER POLLUTION PREVENTION INSPECTIONS			
								LS	LS	LS			STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE			
								25000					EROSION CONTROL			
													DRAINAGE			
				0.5					0.5				CONCRETE MASONRY			
				1570				1570					6" BASE PIPE UNDERDRAINS			
				24				24					AGGREGATE DRAINS			
				58				58					6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS			
				12				12					6" CONDUIT, TYPE F			
				12					12				12" CONDUIT, TYPE C			
				54				54					15" CONDUIT, TYPE D, 706.02			
				76					76				29" X 45" CONDUIT, TYPE B, 706.04			
				1					1				MANHOLE, NO. 3, AS PER PLAN	P.8		
				2					2				PRECAST REINFORCED CONCRETE OUTLET			
													PAVEMENT			
120									120				PAVEMENT PLANING, ASPHALT CONCRETE, VARIABLE DEPTH			
				607				566	41				ASPHALT CONCRETE BASE, PG64-22, (449)			
				523				492	31				AGGREGATE BASE			
				45				45					AGGREGATE BASE, AS PER PLAN	P.8		
10				426				392	44				NON-TRACKING TACK COAT			
				38				22	16				ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22			
				92				92					ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449)			
				107				107					ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (449)			
10									10				COMPACTED AGGREGATE			
								1904					RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)			

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER
AMH

REVIEWER
KM 08/28/23

PROJECT ID
118182

SHEET TOTAL
P.20 P.78

LOCATION						DESIGN					QUANTITIES																
ROUTE	LOCATION	SHEET	BEGIN STA	END STA	LENGTH	TYPICAL SECTION	LENGTH	AVG. WIDTH			TOTAL PAVEMENT AREA	202E23001	204E10000	301E56000		304E20000		304E20001		407E20000	441E70000		442E22100		442E22400		618E40100
								PAVEMENT REMOVED, AS PER PLAN	SUBGRADE COMPACTION	ASPHALT CONCRETE BASE, PG64-22, (449)		AGGREGATE BASE		AGGREGATE BASE, AS PER PLAN		NON-TRACKING TACK COAT	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22		ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449)		ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (449)		RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)				
MILE	FT	FT	FT	FT	SY	SY	SY	INCH	CY	INCH	CY	INCH	CY	GAL	INCH	CY	INCH	CY	INCH	CY	INCH	CY	FT				
US-23	1	P.26-P.27	175+03.20	181+60.09	0.12	657	EX. CROSSOVER			907															1021		
BETHLEHEM	1	P.29	37+77.00	39+43.49	0.03	166				458																	
BETHLEHEM	1	P.30	40+57.02	41+77.06	0.02	120				334																	
BETHLEHEM	1	P.29	37+77.00	38+22.70	0.01	2	46					319	4.00	36	6.00	54			18	1.25	11						
BETHLEHEM	1	P.30	41+32.06	41+77.06	0.01	2	45					313	4.00	35	6.00	53			17	1.25	11						
US-23	2	P.31-P.32	209+12.14	215+11.49	0.11	599	EX. CROSSOVER			849																	
US-23	2	P.31	207+59.20	212+06.33	0.08	1	447	12	8	1037	445	1104	8.00	245	6.00	184	8.00	23	175		1.50	44	1.75	51	447		
US-23	2	P.31	208+02.29	208+39.20	0.01	37	PR. CROSSOVER			140		140	4.00	16	6.00	24			16		1.50	6	1.75	7			
US-23	2	P.32	212+27.34	216+62.99	0.08	1	436		12	8	994	438	1059	8.00	234	6.00	177	8.00	22	166		1.50	42	1.75	49	436	
SR-423	3	P.33	1+13.60	1+41.00	0.01	3	27	PV-1			182			8.00	41	6.00	31			34	3.00	16					
TOTALS CARRIED TO GENERAL SUMMARY											3431	2935		607		523		45	426		38		92		107	1904	

PAVEMENT CALCULATIONS

DESIGN AGENCY



DESIGNER

AMH

REVIEWER

KM 08/28/23

PROJECT ID

118182

SHEET TOTAL

P.22 P.78

LOCATION						QUANTITIES											
SHEET	REF	LOCATION	BEGIN STA.	END STA.	SIDE	202E20010	202E20011	202E35100	202E35200	202E58000	202E75000	602E20000	607E15000	611E04600	611E06400	611E52702	611E99575
						HEADWALL REMOVED	HEADWALL REMOVED, AS PER PLAN	PIPE REMOVED, 24" AND UNDER	PIPE REMOVED, OVER 24"	MANHOLE REMOVED	FENCE REMOVED	CONCRETE MASONRY	FENCE, TYPE 47	12" CONDUIT, TYPE C	15" CONDUIT, TYPE D, 706.02	29" X 45" CONDUIT, TYPE B, 706.04	MANHOLE, NO. 3, AS PER PLAN
						EACH	EACH	FT	FT	EACH	FT	CY	FT	FT	FT	FT	EACH
P.27	R-1	1	177+40.4	178+72.7	RT	2		133									
P.27	F-1	1	177+14.1	179+21.9	RT								208				
P.27	F-2	1	177+29.9	178+72.8	LT						80		144				
P.33	R-2	3	01+30.9	01+19.3	RT/LT		1		67								
P.33	R-3	3	00+95.9	01+19.3	RT				25								
P.33	R-4	3	01+19.3	01+07.8	RT			12									
P.33	R-5	3	01+19.3		RT					1							
P.33	D-1	3	01+28.0	01+19.3	RT/LT							0.5				61	
P.33	D-2	3	00+95.9	01+19.3	RT									12			
P.33	D-3	3	01+19.3	01+07.8	RT											15	
P.33	D-4	3	01+19.3		RT												1
TOTALS CARRIED TO GENERAL SUMMARY						2	1	145	92	1	80	0.5	352	12	54	76	1

LOCATION						DESIGN		QUANTITIES						STANDARD BENDS AND BRANCHES				
SHEET	LOCATION	REF	BEGIN STA.	END STA.	SIDE	UNDERDRAIN OUTLET STA.	UNDERDRAIN OUTLET INVERT	601	605	605	611	611	611	FOR INFORMATION ONLY				
								TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	6" BASE PIPE UNDERDRAINS	AGGREGATE DRAINS	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	6" CONDUIT, TYPE F	PRECAST REINFORCED CONCRETE OUTLET	TEE	45° WYE	45° BEND	90° BEND	END CAP
								SY	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH
P.29	1		38+22.70		RT/LT					6								
P.30	1		41+77.06		RT/LT					18								
P.31	2	UD-1	207+59.20	211+59.20	RT	211+59.20	960.5	2	400		26	1					1	
P.31	2	UD-2	207+59.20	211+59.20	RT				400			6			1	1	1	
P.32	2	UD-3	212+77.97	216+62.99	LT	212+77.97	959.8	2	385		32	1					1	
P.32	2	UD-4	212+77.97	216+62.99	LT				385			6			1	1	1	
TOTALS CARRIED TO GENERAL SUMMARY								4	1570	24	58	12	2					

PLAN SUBSUMMARY

DESIGN AGENCY

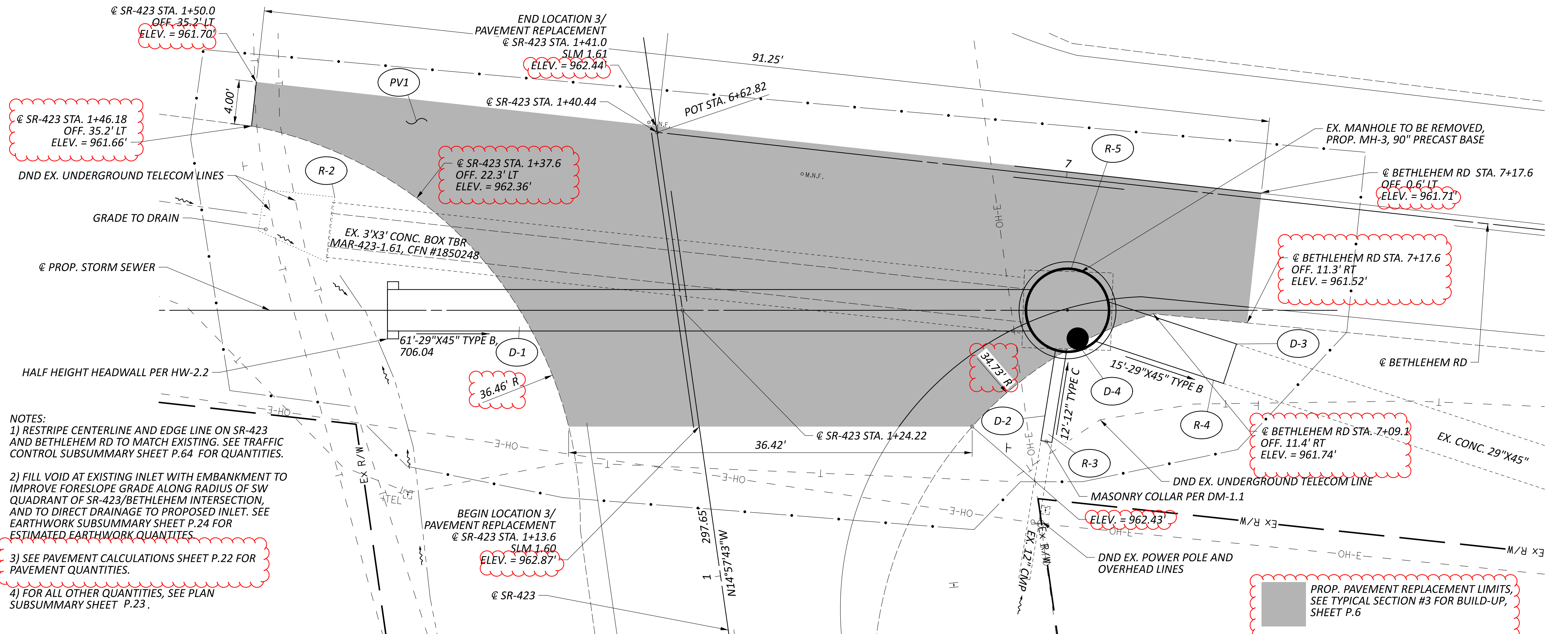


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AMH

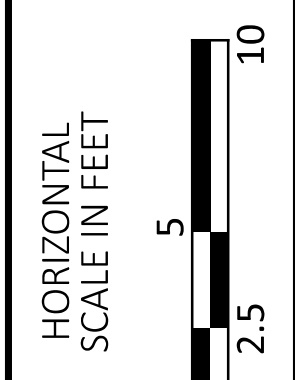
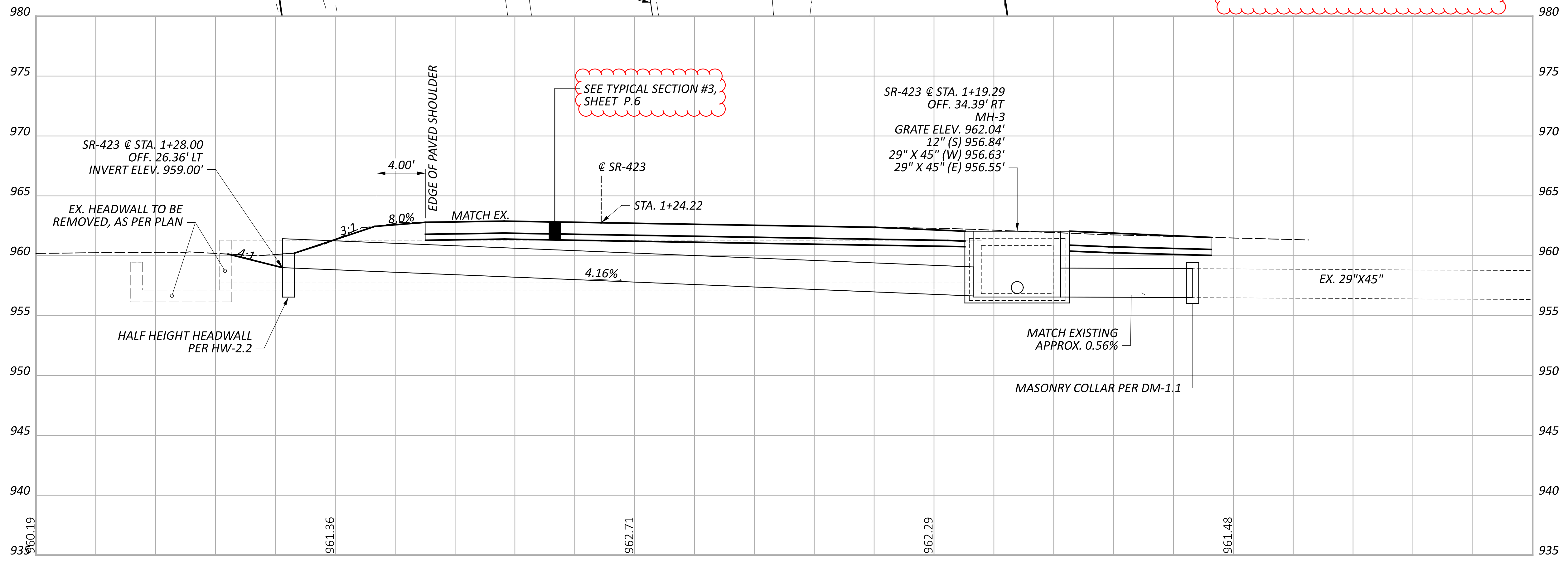
REVIEWER
KM 08/28/23

PROJECT ID
118182

SHEET TOTAL
P.23 | P.78



- NOTES:
- 1) RESTRIPE CENTERLINE AND EDGE LINE ON SR-423 AND BETHLEHEM RD TO MATCH EXISTING. SEE TRAFFIC CONTROL SUBSUMMARY SHEET P.64 FOR QUANTITIES.
 - 2) FILL VOID AT EXISTING INLET WITH EMBANKMENT TO IMPROVE FORESLOPE GRADE ALONG RADIUS OF SW QUADRANT OF SR-423/BETHLEHEM INTERSECTION, AND TO DIRECT DRAINAGE TO PROPOSED INLET. SEE EARTHWORK SUBSUMMARY SHEET P.24 FOR ESTIMATED EARTHWORK QUANTITIES.
 - 3) SEE PAVEMENT CALCULATIONS SHEET P.22 FOR PAVEMENT QUANTITIES.
 - 4) FOR ALL OTHER QUANTITIES, SEE PLAN SUBSUMMARY SHEET P.23.



ROADWAY PLAN
MAR-423-1.61, CFN #1850248 (LOCATION 3)

DESIGN AGENCY



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AMH

REVIEWER
KM 08/28/23

PROJECT ID
118182

SHEET TOTAL
P.33 P.78