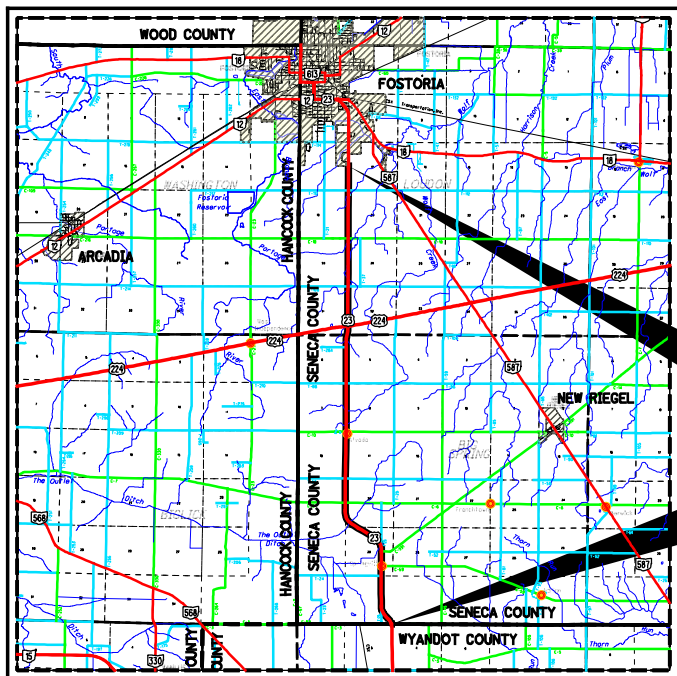


STATE OF OHIO DEPARTMENT OF TRANSPORTATION

SEN-23-0.00

BIG, SPRING & LOUDON TWPS. SENECA COUNTY



END WORK
S.L.M. 9.98
STA. 526+58

BEGIN WORK
S.L.M. 0.00
STA. 0+00

LOCATION MAP

LATITUDE: N41°04'56" LONGITUDE: W83°24'07"



PORTION TO BE IMPROVED	-----	=====
INTERSTATE HIGHWAY	-----	=====
FEDERAL ROUTES	-----	=====
STATE ROUTES	-----	=====
COUNTY & TOWNSHIP ROADS	-----	=====
OTHER ROADS	-----	=====

DESIGN DESIGNATION

CURRENT ADT (2022)	-----	4100
DESIGN YEAR ADT (2034)	-----	4700
DESIGN HOURLY VOLUME (2034)	-----	550
DIRECTIONAL DISTRIBUTION	-----	55%
TRUCKS (24 HOUR B&C)	-----	31%
DESIGN SPEED	-----	60MPH
LEGAL SPEED	-----	55MPH
DESIGN FUNCTIONAL CLASSIFICATION:		
RURAL PRINCIPAL ARTERIAL	-----	
NHS PROJECT	-----	YES

DESIGN EXCEPTIONS

NONE



PLAN PREPARED BY:
OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT TWO
BOWLING GREEN, OHIO

<p>ENGINEERS SEAL:</p> <p>SIGNED: <i>Julie M. Fahy</i> DATE: 9-23-2020</p>	<p>ENGINEERS SEAL:</p> <p>SIGNED: <i>David J. Geckle</i> DATE: 9-24-2020</p>
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INDEX OF SHEETS:

TITLE SHEET	1
TYPICAL SECTIONS	2-6
GENERAL NOTES	7
TRAFFIC CONTROL NOTES	8, 8A
MAINTENANCE OF TRAFFIC	9-10
PLAN INSERT: BTA, TYPE 4, APP	11
GENERAL SUMMARY	12-13
PAVEMENT CALCULATIONS	14
EXTRA AREA & DEDUCTIONS	15
SUBSUMMARIES	16
PAVEMENT MARKING CALCULATIONS	17
INTERSECTION DETAIL - C.R. 58	18
INTERSECTION DETAIL - U.S. 224	19
PLAN SHEET	20-41
BRIDGE SHEETS	42-53
SEN-23-0764	42-51
SEN-23-0833	52-53

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS		
BP-3.1	01/17/20	CB-2.1	7/20/18	AS-1-15	7/17/15	800-2019	1/15/21	WATERWAY
BP-3.2	1/18/19			AS-2-15	1/18/19	809	10/16/20	PERMIT 07/22/20
BP-4.1	7/19/13	MT-97.12	1/20/17	DS-1-92	7/18/03	848	1/20/17	
BP-9.1	1/18/19	MT-99.20	4/19/19	TST-1-99	7/20/18	872	4/17/20	
		MT-101.60	1/17/20			874	4/17/20	
DM-4.3	1/15/16	MT-101.90	7/17/20			875	1/18/19	
DM-4.4	1/15/16							
		TC-64.10	1/17/20					
RM-1.1	7/18/14	TC-65.10	1/17/14					
		TC-65.11	7/21/17					
MGS-1.1	1/19/18	TC-71.10	1/19/18					
MGS-2.1	1/19/18	TC-84.20	10/18/13					
MGS-2.3	7/18/14	TC-84.21	10/18/13					
MGS-4.2	7/19/13							
MGS-5.2	7/15/16							
MGS-5.3	7/15/16							

FEDERAL PROJECT NUMBER

E090189

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

RESURFACE SECTIONS ON US-23 FROM WYANDOT COUNTY LINE TO FOSTORIA CORP. PERFORM NECESSARY RELATED WORK.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	0 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	N/A ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A ACRES (NOI NOT REQUIRED)

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET 10.

APPROVED *Pat McCully, PE*
DATE 10/14/2020 DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

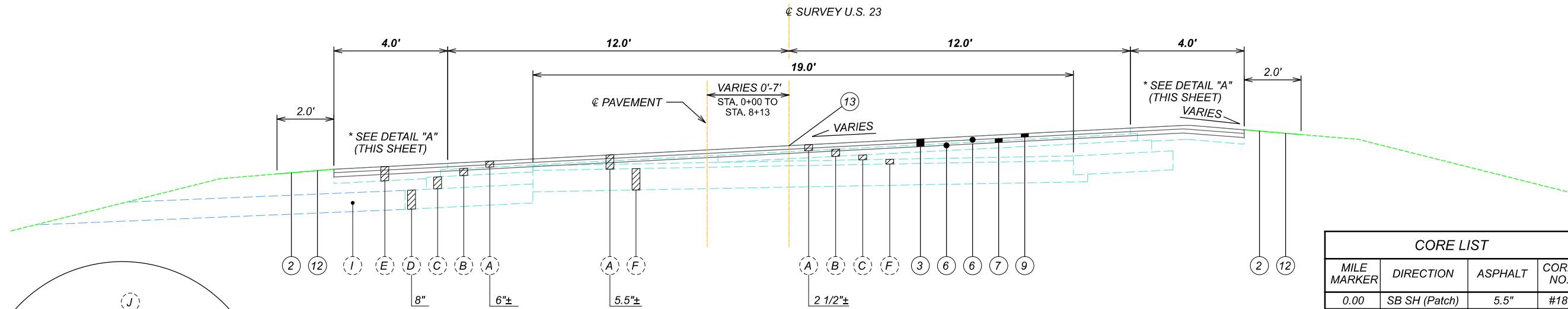
DESIGN AGENCY	
DESIGNER	TLM
REVIEWER	JMF 07-31-20
PROJECT ID	85264
SHEET	P.1
TOTAL	53

SEN-23-0.00

MODEL: Sheet PAPER SIZE: 11x17 (in.) DATE: 9/23/2020 TIME: 12:41:36 PM USER: tmacs
pw:\ohiodot-pw\bentley.com\ohiodot-pw-02\Documents\01Active Projects\District 02\Seneca\85264\400-Engineer\ing\Roadway\Sheets\85264_GT001.dgn

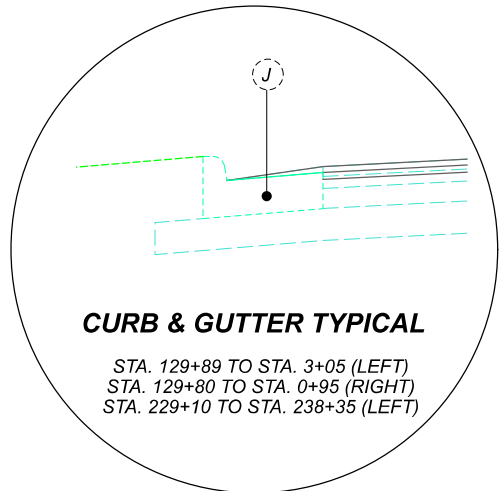
TITLE SHEET

TYPICAL SECTION "A"



SUPERELEVATED SECTION - U.S. 23

STA. 129+80.00 TO STA. 130+64.79 BACK = 84.79 FT.
 STA. 0+00.00 AHEAD TO STA. 24+17.33 = 2,417.33 FT.
 2,502.12 FT.

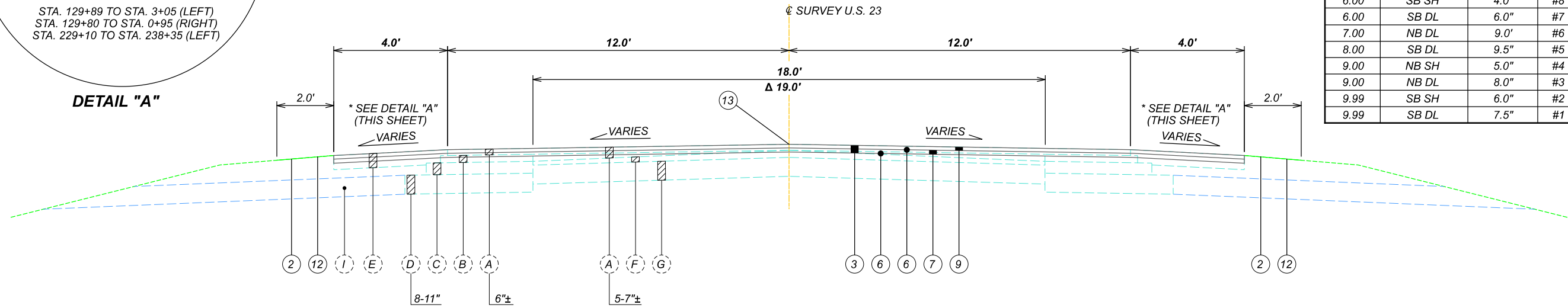


CURB & GUTTER TYPICAL

STA. 129+89 TO STA. 3+05 (LEFT)
 STA. 129+80 TO STA. 0+95 (RIGHT)
 STA. 229+10 TO STA. 238+35 (LEFT)

DETAIL "A"

TYPICAL SECTION "B"



NORMAL SECTION - U.S. 23

Δ STA. 24+17.33 TO STA. 82+01.16 = 5,783.83 FT.
 Δ STA. 148+51.38 TO STA. 338+49.98 = 18,998.60 FT.
 24,782.43 FT.

STR. SEN-23-0500 (STA. 257+90 TO STA. 258+03)

PROPOSED LEGEND

- ① ITEM 202 - PAVEMENT REMOVED, AS PER PLAN (T=17 1/2")
- ② ITEM 209 - LINEAR GRADING
- ③ ITEM 254 - 3 1/4" PAVEMENT PLANING, ASPHALT CONCRETE
- ④ ITEM 301 - 8" ASPHALT CONCDRETE BASE, PG64-22 (2 LIFTS 4" EACH)
- ⑤ ITEM 304 - 6" AGGREGATE BASE
- ⑥ ITEM 407 - NON-TRACKING TACK COAT
- ⑦ ITEM 442 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446), AS PER PLAN B
- ⑧ ITEM 442 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (448), AS PER PLAN A
- ⑨ ITEM 442 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446), AS PER PLAN B
- ⑩ ITEM 442 - 1 3/4" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446)
- ⑪ ITEM 442 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448), AS PER PLAN A
- ⑫ ITEM 617 - COMPACTED AGGREGATE
- ⑬ ITEM 874 - LONGITUDINAL JOINT PREPARATION

EXISTING LEGEND

- Ⓐ EXISTING ASPHALT (THICKNESS AS SHOWN)
- Ⓑ 2" MACADAM
- Ⓒ 3" ASPHALT CONCRETE BASE
- Ⓓ 9" WATERBOUND MACADAM
- Ⓔ 5" CRUSHED AGGREGATE BASE
- Ⓕ 6" PIPE UNDERDRAINS
- Ⓖ SUBBASE (THICKNESS AS SHOWN)
- Ⓖ NO. 2 STONE UNDERDRAIN
- Ⓗ 6" STABILIZED SHOULDER MATERIAL
- Ⓙ CURB & GUTTER, TYPE 2

CORE LIST			
MILE MARKER	DIRECTION	ASPHALT	CORE NO.
0.00	SB SH (Patch)	5.5"	#18
0.00	SB DL (Patch)	9.5"	#17
1.00	NB SH	5.5"	#16
1.00	NB DL	6.0"	#15
2.00	SB SH (Patch)	6.0"	#14
2.00	SB DL	5.5"	#13
3.00	NB DL	6.0"	#12
4.00	SB DL (Patch)	7.0"	#11
5.00	NB SH	4.0"	#10
5.00	NB DL	6.5"	#9
6.00	SB SH	4.0"	#8
6.00	SB DL	6.0"	#7
7.00	NB DL	9.0"	#6
8.00	SB DL	9.5"	#5
9.00	NB SH	5.0"	#4
9.00	NB DL	8.0"	#3
9.99	SB SH	6.0"	#2
9.99	SB DL	7.5"	#1



UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

AMERICAN ELECTRIC POWER AT&T
2622 STATE ROUTE 100 130 N. ERIE STREET
TIFFIN, OHIO 44883 ROOM 714
419-209-5583 TOLEDO, OHIO 43624
419-245-7304

BASCAM MUTUAL TELEPHONE CO. CHARTER TELECOMMUNICATIONS
P.O. BOX 316 3760 INTERCHANGE DRIVE
BASCOM, OHIO 44809 COLUMBUS, OHIO 43204
419-937-2222 614-255-6340

CITY OF FOSTORIA - SEWER CITY OF FOSTORIA - WATER
213 S. MAIN STREET 213 S. MAIN STREET
FOSTORIA, OHIO 44830 FOSTORIA, OHIO 44830
419-435-2486 419-435-2486

COLUMBIA GAS OF OHIO, INC. FRONTIER COMMUNICATIONS
2901 E. MANHATTAN BLVD. 300 WEST GYPSY LANE ROAD
TOLEDO, OHIO 43611 BUILDING A
419-539-6066 BOWLING GREEN, OHIO 43402
419-354-9452

NORTH CENTRAL ELECTRIC COOP, INC. O.D.O.T. - DISTRICT 2 - TRAFFIC
P.O. BOX 475 317 E. POE ROAD
ATTICA, OHIO 44807 BOWLING GREEN, OHIO 43402
800-426-3072 419-353-8131

SENECA COUNTY SEWER DISTRICT TDS TELECOM
71 S. WASHINGTON ST. #1104 P.O. BOX 157
TIFFIN, OHIO 44883 102 W. FREMONT STREET
419-443-7936 ARCADIA, OHIO 44804
419-894-6400

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

ELEVATION DATUM

ALL ELEVATIONS ARE ORTHOMETRIC HEIGHTS USING THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND GEOID12B GEOID (GPS DERIVED). HORIZONTAL POSITIONS ARE BASED ON THE OHIO STATE PLANE NORTH ZONE, A LAMBERT CONFORMAL CONIC MAP PROJECTION, THE NORTH AMERICAN DATUM OF 1983 ADJUSTED TO THE NATIONAL SPATIAL REFERENCE SYSTEM OF 2011 (NAD 83(NSRS 2011)), AND THE GRS80 ELLIPSOID.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

PROFILE AND ALIGNMENT

PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY AS SHOWN ON THE TYPICAL SECTIONS.

EXISTING MONUMENT BOXES

DURING CONSTRUCTION, IF THE CONTRACTOR REMOVES OR DISTURBS ANY MONUMENT BOX ASSEMBLIES, THE CONTRACTOR SHALL HAVE A REGISTERED SURVEYOR CERTIFY THAT THE MONUMENTS HAVE BEEN RESET AT THE ORIGINAL LOCATION AS PER OHIO ADMINISTRATIVE CODE, CHAPTER 4733-37, STANDARDS FOR BOUNDARY SURVEYS. THE CONTRACTOR SHALL FORWARD A COPY OF SAID CERTIFICATION TO THE PROJECT ENGINEER, AND THE DISTRICT SURVEY OPERATIONS MANAGER FOR REVIEW. THE CERTIFICATION SHALL BE SIMILAR TO THE FOLLOWING:

I, JOHN D. DOE, P.S. HEREBY CERTIFY THAT THE CENTERLINE MONUMENTATION HAS BEEN RESET AT THE PRECONSTRUCTION LOCATIONS DURING PROJECT CTY-RT-SEC, PID 000000. ALL OF MY WORK CONTAINED HEREIN WAS CONDUCTED IN ACCORDANCE WITH OHIO ADMINISTRATIVE CODE 4733-37 COMMONLY KNOWN AS "A MINIMUM STANDARDS FOR BOUNDARY SURVEYS IN THE STATE OF OHIO" UNLESS OTHERWISE NOTED. THE WORDS I AND MY, AS USED HEREIN, ARE TO MEAN MYSELF OR SOMEONE UNDER MY DIRECT SUPERVISION.

ALL SURVEY MONUMENTS SET AND/OR RESET BY THE CONTRACTOR'S SURVEYOR SHALL BE CONSTRUCTED ACCORDING TO SCD RM-1.1.

ALL COSTS ASSOCIATED WITH THE RE-SETTING OF THE MONUMENT BOXES SHALL BE AT THE CONTRACTORS' EXPENSE.

ITEMS ADJUSTED TO GRADE

THE FOLLOWING ITEMS HAVE BEEN CARRIED IN THE PLANS AS CONTINGENCY QUANTITIES AND SHOULD BE USED AS DIRECTED BY THE ENGINEER.

ITEM 623, MONUMENT BOX ADJUSTED TO GRADE 1 EACH

ITEM 202, PAVEMENT REMOVED, AS PER PLAN

ITEM 202, PAVEMENT REMOVED, AS PER PLAN SHALL NOT REMOVE THE MACADAM BASE THAT IS 18' WIDE. ITEM 304 HAS BEEN ADDED FOR AREAS OUTSIDE OF THE 18' WIDTH.

ITEM 254, PAVEMENT PLANING, AS PER PLAN

IN AREAS OF CURB AND GUTTER, MILL THE ASPHALT TO EXPOSE THE GUTTER. COSTS FOR CLEANING OUT GUTTER PANS SHALL BE INCLUDED IN ITEM 254, PAVEMENT PLANING, AS PER PLAN.

ASPHALT CONCRETE FOR DRIVEWAYS & MAILBOX APPROACHES

THE FOLLOWING ESTIMATED QUANTITY FOR ASPHALT CONCRETE IS TO BE USED FOR ADJUSTING DRIVEWAYS AND MAILBOX APPROACHES AS DIRECTED BY THE ENGINEER:

ITEM 442, ASPHALT CONCRETE SURFACE COURSE,
12.5MM, TYPE A (446) 50 CU. YARD

TOTALS CARRIED TO GENERAL SUMMARY

THE PROJECT WILL NOT BE CONSIDERED COMPLETE UNTIL ALL DRIVEWAYS HAVE BEEN TREATED AS DIRECTED BY THE ENGINEER.

ITEM , ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448), AS PER PLAN A

ITEM 442, ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448), AS PER PLAN A SHALL FOLLOW THE SPECIFICATIONS FOR THE 442 ITEM EXCEPT FOR SECTION 442.04 ASPHALT BINDER. THE BINDER SHALL BE PG76-22M FOR THE SURFACE COURSE AND A MAXIMUM OF 15% OF RAP BY DRY WEIGHT OF MIX CAN BE USED.

ITEM 442, ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (448), AS PER PLAN A

ITEM 442, ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A, AS PER PLAN A SHALL FOLLOW THE SPECIFICATION FOR THE 442 ITEM EXCEPT FOR SECTION 442.04 ASPHALT BINDER. THE BINDER SHALL BE PG76-22M FOR THE INTERMEDIATE COURSE AND A MAXIMUM OF 20% RAP BY DRY WEIGHT OF MIX CAN BE USED.

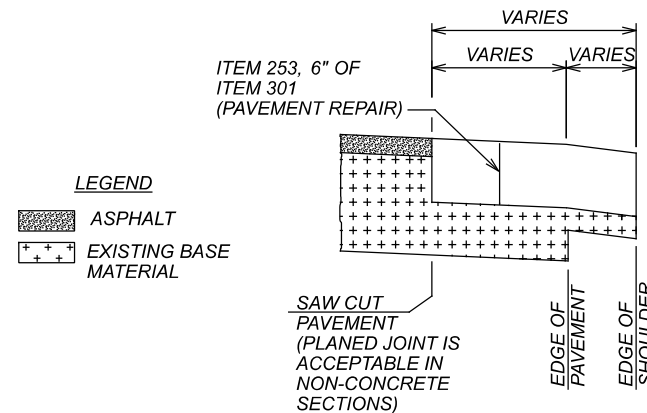
ITEM 253, PAVEMENT REPAIR

PAVEMENT SHALL BE PLANED BEFORE PAVEMENT REPAIRS ARE PERFORMED.

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED FOR 6" PAVEMENT REPAIR ON U.S. 23 AS DIRECTED BY THE ENGINEER BASED ON 15% OF THE PAVEMENT AREA.

ITEM 253, PAVEMENT REPAIR 4366 CU. YARDS

ESTIMATED QUANTITIES CARRIED TO THE GENERAL SUMMARY.



NOTE: THE ENGINEER SHALL FIELD VERIFY ALL LOCATIONS PRIOR TO THE BEGINNING OF WORK. ANY ADJUSTMENTS NECESSARY SHALL BE AS DIRECTED BY THE ENGINEER.

PAVEMENT RESTORATION

THE FOLLOWING QUANTITY HAS BEEN PROVIDED FOR PAVEMENT RESTORATION AT THE FOLLOWING LOCATIONS:

ITEM 202, PAVEMENT REMOVED 95 SQ. YDS.
ITEM 301, ASPHALT CONCRETE BASE, PG64-22 32 CU. YD.S

THE ABOVE QUANTITY IS BASED ON A 301 THICKNESS OF 12 INCHES AND A PAVEMENT RESTORATION WIDTH THAT INCLUDES THE TRENCH WIDTH PLUS TWO FEET ON EACH SIDE OF THE TRENCH.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITION COST.

APPROXIMATE LOCATIONS:
U.S. 23 STA. 447+00

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E, MASH2016

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 202, BRIDGE TERMINAL ASSEMBLY REMOVED, AS PER PLAN

THE CONTRACTOR SHALL REMOVE THE CONCRETE POST ENCASUREMENTS WHEN REMOVING THE BRIDGE TERMINAL ASSEMBLY.

ITEM 606, MGS, BTA TYPE 1, AS PER PLAN

THIS ITEM SHALL CONSIST OF INSTALLING A MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1, EXCEPT THAT IT SHALL BE MODIFIED TO CONTOUR TO THE RADIUS AT THIS LOCATION.

CONTINGENCY QUANTITIES

THE FOLLOWING ITEMS HAVE BEEN CARRIED IN THE PLANS AS CONTINGENCY QUANTITIES AND SHOULD BE USED AS DIRECTED BY THE ENGINEER.

ITEM 202, CURB REMOVED 50 FT.
ITEM 202, PIPE REMOVED, 24" AND UNDER 20 FT.
ITEM 609, COMBINATION CURB AND GUTTE,R TYPE 2 50 FT.
ITEM 611, 12" CONDUIT, TYPE C 20 FT.

QUANTITIES CARRIED TO GENERAL SUMMARY.



**ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A(446), APP B
 ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446), APP B**

FOLLOW 401 AND 441, EXCEPT AS FOLLOWS:

- 1.) OFFSET THE AC GAUGE FOR EACH JMF FOR THE PROJECT PRIOR TO THE PROJECT'S START USING 441.09.A. AND THE MODIFIED SUPPLEMENT 1043 PROCEDURE BELOW.
- 2.) DURING S-1043.07 PROCESS, A RAP SAMPLE OBTAINED FROM THE JMF-DESIGNATED RAP PILE WILL BE EXTRACTED IN THE ASPHALT LEVEL 3 LAB TO VERIFY THE RAP AC %. THE RAP AC % WILL BE WITHIN 0.3% OF THE AVERAGE RAP AC % FROM THE JMF. IF RAP AC % IS OUTSIDE OF THE 0.3%, THE VERIFICATION PAN PROCESS WILL STOP, AND DISTRICT TESTING WILL ALLOW ONE OPPORTUNITY TO REWORK THE RAP PILE AT THE MIX PLANT AND RESAMPLE. RESAMPLING REQUIRES DISTRICT TESTING TO BE PRESENT. IF THE RESAMPLE IS STILL OUTSIDE OF THE 0.3%, THE JMF WILL BE RESCINDED AND NEED TO BE REDESIGNED.

FOLLOW 441.10 EXCEPT AS FOLLOWS:

- 1.) ENSURE ASPHALT BINDER CONTENT DOES NOT EXCEED TABLE 441.10-1. ADJUSTMENTS TO MIX PLANT CONTROL SETTINGS MUST BE SUBMITTED TO AND APPROVED BY DISTRICT TESTING PRIOR TO MAKING THE ADJUSTMENT. THE ADJUSTMENT CANNOT EXCEED +/- 0.2% FROM DESIGN AC % FROM JMF. DO NOT LOWER VIRGIN BINDER CONTENT OR INCREASE RAP PERCENT. ENSURE PLANT TICKET SHOWS THE ADJUSTMENT AND IS SET TO THE ADJUSTED TOTAL AC % AT ALL TIMES AFTERWARDS.

FOLLOW SUPPLEMENT 1043 FOR AC GAUGE OFFSET, EXCEPT AS MODIFIED BELOW:

- 1.) FOLLOW 1043.07 EXCEPT AS FOLLOWS:
 - A.) NOTIFY DISTRICT TESTING A MINIMUM OF ONE WEEK PRIOR TO MAKING VERIFICATION PANS.
 - B.) DISTRICT TESTING WILL WITNESS A SOLVENT EXTRACTION FROM A SAMPLE FROM THE RAP PILE THAT IS TO BE USED IN THE JMF TO VERIFY THE RAP AC %. RAP AC % WILL BE WITHIN 0.3% OF RAP AC % DETERMINED IN JMF. IF OUTSIDE OF 0.3%, DO NOT PROCEED AND THE JMF WILL NEED TO BE REDESIGNED.
 - C.) DISTRICT TESTING WILL WITNESS THE VERIFICATION PANS BEING BLENDED, MIXED, AND COMPACTED.
 - D.) MAKE A MINIMUM OF THREE VERIFICATION PANS FOR THE JMF THAT ARE AT THE JMF ASPHALT BINDER CONTENT. MAKE ONE ADDITIONAL VERIFICATION PAN FOR EACH ADDITIONAL DISTRICT THE JMF WILL BE USED IN.
 - E.) IN ADDITION, TURN POSSESSION OVER OF THE CALIBRATION AC GAUGE PANS USED TO DETERMINE THE FIT COEFFICIENT TO DISTRICT TESTING.

- 2.) FOR AC CONTENT PAY ACCEPTANCE, REPLACE 1043.08 WITH THE FOLLOWING:

CALCULATE AN AC GAUGE OFFSET AMOUNT FOR EACH JMF AND MIX PLANT IN ACCORDANCE WITH THE FOLLOWING PROCEDURE PRIOR TO START OF ANY PRODUCTION FOR THE JMF. NOTIFY DISTRICT TESTING 24 HOURS PRIOR TO OFFSETTING GAUGE.

- 1.) ENSURE PRINTER IS ON AND PLACE THE FIRST VERIFICATION PAN IN THE AC GAUGE AND RUN.
- 2.) AFTER THE 16-MINUTE TEST, TAKE THE VERIFICATION PAN OUT AND TURN 180 DEGREES AND PLACE BACK IN AC GAUGE AND RUN.
- 3.) REPEAT STEPS 1 AND 2 WITH SECOND AND THIRD VERIFICATION PANS.
- 4.) FOR EACH RUN, TAKE THE JMF ASPHALT BINDER CONTENT MINUS THE AC GAUGE AC % TO OBTAIN THE OFFSET FOR THAT RUN.
- 5.) AVERAGE ALL OFFSETS FOR A FINAL OFFSET.
- 6.) RETAIN ALL OF THE VERIFICATION PANS. AFTER THE FINAL OFFSET IS DETERMINED, DISTRICT TESTING WILL CHOOSE TWO OF THE VERIFICATION PANS AND SEND ONE OF THESE TWO TO OMM TO EXTRACT AND REFLUX.
- 7.) DISTRICT TESTING WILL USE THE TWO VERIFICATION PANS TO OFFSET THEIR AC GAUGE.

BEFORE THE BEGINNING OF A PRODUCTION DAY, RUN THE VERIFICATION PAN IN THE AC GAUGE AND ENSURE THE OFFSET AC GAUGE AMOUNT IS WITHIN 0.14% OF THE JMF ASPHALT BINDER CONTENT. DURING THE START OF PRODUCTION FOR THE JMF, SOLVENT EXTRACT THE FIRST TWO QC SAMPLES AND COMPARE TO THE OFFSET AC GAUGE. ENSURE SOLVENT EXTRACTION IS WITHIN 0.3% OF OFFSET AC GAUGE. IF MORE THAN 0.3% OFF, IMMEDIATELY RESAMPLE AND RUN AC GAUGE AND SOLVENT EXTRACT IMMEDIATELY. IF TWO CONSECUTIVE SAMPLES ARE MORE THAN 0.3% OFF, IMMEDIATELY STOP PRODUCTION, CONTACT MONITORING TEAM, AND INVESTIGATE THE REASON FOR THE PROBLEM. ONCE TWO CONSECUTIVE QC SAMPLES ARE WITHIN 0.3% OF OFFSET AC GAUGE, THE FINAL OFFSET GAUGE IS CONFIRMED.

AFTER CONFIRMING THE AC GAUGE OFFSET AMOUNT PROCEED WITH DETERMINING AC CONTENTS OF PRODUCTION SAMPLES BY THE AC GAUGE ACCORDING TO 1043.09.

ONLY DETERMINE ONE AC GAUGE OFFSET AMOUNT PER JMF. IF MORE THAN 30 DAYS HAS LAPSED SINCE THE JMF WAS LAST TESTED, RE-DO THE OFFSET PROCEDURE ABOVE WITH TWO VERIFICATION PANS (ONE FROM THE CONTRACTOR AND ONE FROM THE DISTRICT). IF AN AC GAUGE OFFSET AMOUNT IS LATER DETERMINED, BY AN INVESTIGATION OF BOTH THE CONTRACTOR AND THE DISTRICT, TO BE INCORRECT RE-DO THE OFFSET PROCEDURE. IN ADDITION, ALSO DETERMINE THE AC GAUGE OFFSET FOLLOWING THE CURRENT PROCEDURE AS OUTLINED IN SUPPLEMENT 1043 DATED JANUARY 18, 2019 AND PROVIDE THE INFORMATION TO THE DEPARTMENT. THIS AC GAUGE OFFSET NUMBER WILL NOT BE USED DURING QC TESTING.

DESIGN AGENCY



DESIGNER
TLM

REVIEWER

JMF

PROJECT ID


85264

SHEET TOTAL

P.8A | 53

SHEET NUM.											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
7	8	9	10	14	15	16	17	01/NHS/PV	02/NHS/BR	03/SAF/OH									
ROADWAY																			
	95							95			202	23000	95	SY	PAVEMENT REMOVED				
				334				334			202	23001	334	SY	PAVEMENT REMOVED, AS PER PLAN	7			
	50							50			202	32000	50	FT	CURB REMOVED				
	20							20			202	35100	20	FT	PIPE REMOVED, 24" AND UNDER				
						2,813		2,813			202	38000	2,813	FT	GUARDRAIL REMOVED				
						21		21			202	42010	21	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E				
						4		4			202	47000	4	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED				
						4		4			202	58100	4	EACH	CATCH BASIN REMOVED				
				160				160			203	10000	160	CY	EXCAVATION				
						40		40			203	20000	40	CY	EMBANKMENT				
				334				334			204	10000	334	SY	SUBGRADE COMPACTION				
						39		39			209	15000	39	STA	RESHAPING UNDER GUARDRAIL				
				21				21			209	60500	21	MILE	LINEAR GRADING				
		17.18						17.18			209	72050	17.18	MILE	PREPARING SUBGRADE FOR SHOULDER PAVING				
						2,444		2,444			606	15050	2,444	FT	GUARDRAIL, TYPE MGS				
						300		300			606	15100	300	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS				
						113		113			606	17360	113	FT	GUARDRAIL, TYPE MGS, LONG-SPAN				
						22		22			606	26150	22	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH2016				
						5		5			606	26550	5	EACH	ANCHOR ASSEMBLY, MGS TYPE T				
						3		3			606	35002	3	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1				
						1		1			606	35003	1	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN	7			
	1							1			623	39500	1	EACH	MONUMENT BOX ADJUSTED TO GRADE				
EROSION CONTROL																			
						10		10			601	20000	10	SY	CRUSHED AGGREGATE SLOPE PROTECTION				
						2,254		2,254			659	10000	2,254	SY	SEEDING AND MULCHING				
						0.3		0.3			659	20000	0.3	TON	COMMERCIAL FERTILIZER				
						13		13			659	35000	13	MGAL	WATER				
								10,000			832	30000	10,000	EACH	EROSION CONTROL				
DRAINAGE																			
	20							20			611	04600	20	FT	12" CONDUIT, TYPE C				
						4		4			611	98150	4	EACH	CATCH BASIN, NO. 3				
						5		5			611	98630	5	EACH	CATCH BASIN ADJUSTED TO GRADE				
						2		2			611	98634	2	EACH	CATCH BASIN RECONSTRUCTED TO GRADE				
PAVEMENT																			
	4,366							4,366			253	02000	4,366	CY	PAVEMENT REPAIR				
				177,531	2,012			179,543			254	01001	179,543	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, 3 1/4"	7			
	32			75				107			301	46000	107	CY	ASPHALT CONCRETE BASE, PG64-22				
				56				56			304	20000	56	CY	AGGREGATE BASE				
				24,902	282			25,184			407	20000	25,184	GAL	NON-TRACKING TACK COAT				
	50	43		7,224	84			7,401			442	10001	7,401	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN B	8A			
		104		8,425	98			8,627			442	10101	8,627	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN B	8A			
				191				191			442	20001	191	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448), AS PER PLAN A, PG76-22M	7			
				222				222			442	20201	222	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448), AS PER PLAN A, PG76-22M	7			
	50							50			609	12000	50	FT	COMBINATION CURB AND GUTTER, TYPE 2				
				2,137				2,137			617	10100	2,137	CY	COMPACTED AGGREGATE				
				21				21			618	41000	21	MILE	RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)				
				11				11		11	618	43000	11	MILE	RUMBLE STRIPES, CENTER LINE (ASPHALT CONCRETE)				
				53,261				53,261			874	20000	53,261	FT	LONGITUDINAL JOINT PREPARATION				

GENERAL SUMMARY

DESIGN AGENCY

 DESIGNER
 TLM
 REVIEWER
 JMF 07-31-20
 PROJECT ID
 85264
 SHEET TOTAL
 P.12 53

STATION RANGE			TYPICAL SECTION	SIDE	DISTANCE (D) FT	AVERAGE WIDTH (W) FT	SURFACE AREA (A) A=DxW/9 SY	CADD GENERATED AREA SY	202	SPECIAL	204	254	209	301	304	407	407	442	442	442	442	442	617	618	618	874
									PAVEMENT REMOVED, AS PER PLAN SY	EXCAVATION CY	SUBGRADE COMPACTION SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN SY	LINEAR GRADING MILE	ASPHALT CONCRETE BASE, PG64-22 CY	AGGREGATE BASE CY	NON-TRACKING TACK COAT GAL	NON-TRACKING TACK COAT GAL	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN B CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446) 1 3/4" CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448), AS PER PLAN A CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN B CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448), AS PER PLAN A, 1 3/4" CY	COMPACTED AGGREGATE CY	EDGE LINE, RUMBLE STRIPE (ASPHALT CONCRETE) MILE	CENTER LINE, RUMBLE STRIPE (ASPHALT CONCRETE) MILE	LONGITUDINAL JOINT PREPARATION FT
129+80.00	TO	130+64.79	A	LT/RT	84.79	29.00	273.21					273.21	0.03			15.03	23.22	11.38			13.28		3.40	0.02	0.02	84.79
0+00.00	TO	0+95.00	A	LT/RT	95.00	26.50	279.72					279.72	0.04			15.38	23.78	11.66			13.60		3.81	0.04	0.02	95.00
0+95.00	TO	1+21.00	A	LT/RT	26.00	26.00	75.11					75.11	0.01			4.13	6.38	3.13			3.65		1.04	0.01	0.00	26.00
1+21.00	TO	3+05.00	A	LT/RT	184.00	26.00	531.56					531.56	0.07			29.24	45.18	22.15			25.84		7.38	0.07	0.03	184.00
3+05.00	TO	24+17.33	A	LT/RT	2112.33	30.00	7041.10					7041.10	0.80			387.26	598.49	293.38			342.28		84.75	0.80	0.40	2112.33
24+17.33	TO	82+01.16	B	LT/RT	5783.83	30.00	19279.43					19279.43	2.19			1060.37	1638.75	803.31			937.19		232.07	2.19	1.10	5783.83
82+01.16	TO	105+01.71	C	LT/RT	2300.55	30.00	7668.50					7668.50	0.87			421.77	651.82	319.52			372.77		92.31	0.87	0.44	2300.55
105+01.71	TO	128+98.60	D	LT/RT	2396.89	30.00	7989.63					7989.63	0.91			439.43	679.12	332.90			388.38		96.17	0.91	0.45	2396.89
128+98.60	TO	148+51.38	C	LT/RT	1952.78	30.00	6509.27					6509.27	0.74			358.01	553.29	271.22			316.42		78.35	0.74	0.37	1952.78
148+51.38	TO	229+10.00	B	LT/RT	8058.62	30.00	26862.07					26862.07	3.05			1477.41	2283.28	1119.25			1305.79		323.34	3.05	1.53	8058.62
229+10.00	TO	238+35.00	B	LT/RT	925.00	28.00	2877.78					2877.78	0.35			158.28	244.61	119.91			139.89		37.11	0.35	0.18	925.00
238+35.00	TO	338+49.98	B	LT/RT	10014.98	30.00	33383.27					33383.27	3.79			1836.08	2837.58	1390.97			1622.80		401.84	3.79	1.90	10014.98
338+49.98	TO	341+47.94	E	LT/RT	297.96	30.00	993.20					993.20	0.11			54.63	84.42	41.38			48.28		11.96	0.11	0.06	297.96
341+47.94	TO	344+87.15	D	LT/RT	339.21	30.00	1130.70					1130.70	0.13			62.19	96.11	47.11			54.96		13.61	0.13	0.06	339.21
344+87.15	TO	347+50.00	C	LT/RT	262.85	30.00	876.17					876.17	0.10			48.19	74.47	36.51			42.59		10.55	0.10	0.05	262.85
347+50.00	TO	350+45.10	C	LT/RT	295.10	30.00	983.67					983.67	0.11			54.10	83.61		40.99		47.82		11.84	0.11	0.06	295.10
350+45.10	TO	353+50.00	F	LT/RT	304.90	30.00	1016.33					1016.33	0.12			55.90	86.39		42.35		49.41		12.23	0.12	0.06	304.90
353+50.00	TO	395+45.97	F	LT/RT	4195.97	30.00	13986.57					13986.57	1.59			769.26	1188.86	582.77			679.90		168.36	1.59	0.79	4195.97
395+45.97	TO	401+45.97	D	LT/RT	600.00	30.00	2000.00					2000.00	0.23			110.00	170.00	83.33			97.22		24.07	0.23	0.11	600.00
401+45.97	TO	402+70.53	F	LT/RT	124.56	30.00	415.20					415.20	0.05			22.84	35.29	17.30			20.18		5.00	0.05	0.02	124.56
402+70.53	TO	403+20.53	G	LT/RT	50.00	30.00	166.67	166.67	79.86	166.67			0.02	37.04	27.78	9.17	14.17		8.10		8.10		2.01	0.02	0.01	50.00
SEN-23-0764 (SEE SHEET NO. 44)																										
403+69.82	TO	404+19.82	G	LT/RT	50.00	30.00	166.67	166.67	79.86	166.67			0.02	37.04	27.78	9.17	14.17		8.10		8.10		2.01	0.02	0.01	50.00
404+19.82	TO	405+45.97	F	LT/RT	126.15	30.00	420.50					420.50	0.05			23.13	35.74	17.52			20.44		5.06	0.05	0.02	126.15
405+45.97	TO	412+45.97	D	LT/RT	700.00	30.00	2333.33					2333.33	0.27			128.33	198.33	97.22			113.43		28.09	0.27	0.13	700.00
412+45.97	TO	442+21.77	F	LT/RT	2975.80	30.00	9919.33					9919.33	1.13			545.56	843.14	413.31			482.19		119.40	1.13	0.56	2975.80
SEN-23-0833 (SEE SHEET NO. 52)																										
442+33.28	TO	526+58.00	F	LT/RT	8424.72	30.00	28082.40					28082.40	3.19			1544.53	2387.00	1170.10			1365.12		338.03	3.19	1.60	8424.72
U.S. 224																										
52+00.00	TO	53+63.00	H	LT/RT	163.00	32.00	579.56					579.56	0.06			31.88	49.26		24.15		28.17		6.54	0.06	0.03	163.00
53+63.00	TO	54+49.00	I	LT/RT	86.00	32.00	305.78					305.78	0.03			16.82	25.99		12.74		14.86		3.45	0.03	0.02	86.00
54+49.00	TO	55+02.00	I	LT/RT	53.00			451.11				451.11	0.02			24.81	38.34		18.80		21.93		2.13	0.02	0.01	53.00
55+35.00	TO	56+36.00	I	LT/RT	101.00			645.00				645.00	0.04			35.48	54.83		26.88		31.35		4.05	0.04	0.02	101.00
56+36.00	TO	58+00.00	I	LT/RT	164.00	32.00	583.11					583.11	0.06			32.07	49.56		24.30		28.35		6.58	0.06	0.03	164.00
SUBTOTALS																										
TOTALS CARRIED TO GENERAL SUMMARY																										
								333.33	159.72	333.33	177530.97	20.19	74.07	55.56	9782.54	15118.47	7206.93	16.20	190.19	8424.29	221.89	2136.53	20.15	10.09	53260.50	
								334	160	334	177531	21	75	56	9783	15119	7207	17	191	8425	222	2137	21	11	53261	