

3 LANE NORMAL SECTION_ STA. 0+00.20 AH TO STA. 55+40.60 (LAKE COUNTY)

EXISTING LEGEND

- \widehat{A} ASPHALT OVERLAY (3"±)
- (\widehat{B}) 9" REINFORCED CONCRETE BASE
- (\widehat{c}) SUBBASE

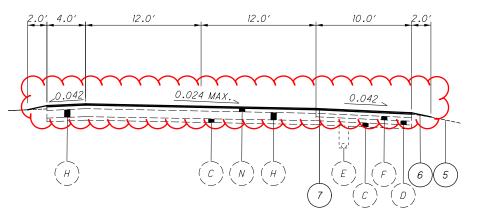
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- (D) BITUMINOUS AGGREGATE BASE
- E UNDERDRAIN
- (F) WATERPROOF AGGREGATE BASE
- \widehat{G}) ASPHALT UNDER GUARDRAIL
- \widehat{H}) 10" REINFORCED CONCRETE BASE
- (\widehat{I}) GUARDRAIL
- \widehat{J} CONCRETE BARRIER
- (\widehat{K}) FREE DRAINING BASE
- (L) CONCRETE CURB
- (\widehat{M}) ASPHALT OVERLAY $(4-1/4''\pm)$
- (\widehat{N}) ASPHALT OVERLAY (7"±)

PROPOSED LEGEND

- 1) ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, 1-1/2"
- 2) ITEM 407 NON-TRACKING TACK COAT
- 3 ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446), AS PER PLAN, PG76-22M, 1-1/2"
- 4) ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447), AS PER PLAN, PG76-22M, 1-½"
- 5) ITEM 209 LINEAR GRADING, AS PER PLAN
- 6) ITEM 617 COMPACTED AGGREGATE, AS PER PLAN
- 7) ITEM 618 RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE), AS PER PLAN



2 L<u>ANE SUPERELEVATED SECTI</u>ON STA. 55+40.60 TO STA. 90+50.00 (CURVE RIGHT) (LAKE COUNTY)



Pavement

Profile and Alignment

Place the proposed pavement to follow the alignment of the existing pavement. Previous construction plans showing the original alignment are available for inspection at the ODOT District 12 office. Place the proposed asphalt concrete as shown on the typical sections. The intent of the plans is to maintain the existing

Planing Requirements

The duration of time between planing the asphalt and placing the asphalt overlay shall be kept to a minimum. In no instance shall this time exceed 7 calendar days. The time limit shall begin on the first day of planing and shall continue based on calendar days, minus any weather days, until completion of the asphalt concrete surface course. This is to ensure that the potential degradation of the exposed pavement due to traffic is kept to a minimum. This requirement applies to both mainline and ramps alike.

In the event that the time between exposing the existing pavement and placing the asphalt surface course exceeds 7 calendar days, liquidated damages as per 108.07 of the CMS shall be assessed.

Asphalt Concrete Surface Course Sealing Requirements

In addition to the gutter sealing requirements specified in SCD BP-3.1 and C&MS 401.15. after completion of the surface course, the contractor shall use a certified 702.01 PG binder to seal the following locations:

- All castings including but not limited to monuments, manholes, water valves, catch basins, curb inlets.
- Butt joints and feather joints including bridge approaches.
- Forward joint for driveway asphalt and trailing joint when butting to existing
- Perimeter of all pavement repairs or other asphalt inlays when pavement repairs /inlays are not overlaid with an asphalt concrete surface course.
- All cold longitudinal joints between paved shoulders and guardrail asphalt.

The material used shall be a certified 702.01 PG binder. The width of the sealer shall be 2-3 inches.

Any additional costs associated with the work identified in this note shall be included in the appropriate asphalt concrete surface course item of work.

Longitudinal Joints (Flexible Pavement)

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Longitudinal joints between a pavement lane and adjoining shoulder or speed change lane, and between a speed change lane and the adjoining shoulder shall be made the same day. All longitudinal joints shall be hot with the exception of one cold joint per roadway. Locate the cold joint along the centerline or a lane line. Longitudinal joint locations shall be as approved by the Engineer. Each ramp shall have a maximum of one longitudinal cold joint located approximately halfway across the ramp.

Item 251 - Partial Depth Pavement Repair (442), As Per Plan A

This item shall be used for the repair of unsound, cold-patch, or pop-out areas of longitudinal joints as directed by the Engineer. This work shall be performed prior to the planing operation. The depth of the repair shall be 4" below the top of the existing asphalt surface. The width of the repair shall be 12" centered over the existing joint.

Use replacement materials conforming to the requirements of Item 442, 19mm.

The following estimated quantity has been carried to the General Summary:

Item 251 – Partial Depth Pavement Repair (442), As Per Plan A..... 2,550 Sq Yd

Item 251 - Partial Depth Pavement Repair (442), As Per Plan B

This item shall be used for the repair of unsound, cold-patch, or pop-out areas of transverse joints and cracks as directed by the Engineer. This work shall be performed prior to the planing operation. The depth of the repair shall be 4" below the top of the existing asphalt surface. The width of the repair shall be 12" centered over the existing joint.

Use replacement materials conforming to the requirements of Item 442, 19mm.

The following estimated quantity has been carried to the General Summary:

Item 251 – Partial Depth Pavement Repair (442),

Item 442 - Asphalt Concrete Surface Course, 12.5mm, Type A, (446), As Per Plan, PG76-22M

Joint coring as per 446.04 will not be required for all asphalt concrete placed with cold longitudinal joints using Void Reducing Asphalt Membrane (VRAM). Construct cold longitudinal joints over VRAM using the same techniques. equipment, and roller patterns used on the rest of the mat. Obtain 10 mat cores for each lot of material per 446.04. Pay factors for each lot of material will be determined per Table 446.04-2.

The coarse virgin aggregate and at least 50% of fine virgin aggregate for this item shall be limited to air cooled blast furnace slag (ACBFS) or Trap Rock from Ontario.

Table 442.02-2 applies except No. 4 sieve requirements are 52 to 60 Total Percent Passing. For the No. 4 sieve, do not exceed 63 in production.

<u>Item 442 – Asphalt Concrete Surface Course, 12.5mm, Type A, (447), As Per</u> Plan, PG76-22M

The coarse virgin aggregate for this item shall be limited to a blend of air cooled blast furnace slag (ACBFS) or Trap Rock from Ontario and limestone. The Contractor shall use a minimum 60% of ACBFS or Trap Rock from Ontario with limestone comprising the remaining percentage. At least 50% of the fine virgin aggregate for this item shall be limited to ACBFS or Trap Rock from Ontario.

Table 442.02-2 applies except No. 4 sieve requirements are 52 to 60 Total Percent Passing. For the No. 4 sieve, do not exceed 63 in production.

When ACBFS is used for a fraction of the coarse aggregate, provide a total asphalt binder content greater than or equal to 6.2%. If ACBFS makes up 100% of the coarse aggregate, apply the binder content requirements of CMS 442.

Item 617 - Compacted Aggregate, As Per Plan

This item shall be used to place compacted aggregate at a variable depth only where needed to fill in low spots along the shoulder and eliminate drop offs. Material shall be limited to reclaimed asphalt concrete pavement (RAP).

The actual depth of compacted aggregate placed will vary depending upon existing conditions. For estimating purposes, an average depth of one inch (1") has been used. Water, if needed, shall be applied as per 617.05 and included under Item 617 - Compacted Aggregate, As Per Plan.

The following estimated quantity has been carried to the General Summary for use as directed by the Engineer:

Item 617 - Compacted Aggregate, As Per Plan......475 Cu Yd

<u>Item 618 - Rumble Strips, Shoulder (Asphalt Concrete), As Per Plan</u>

For all freeways, the lateral position of edge line rumble strips shown in SCD BP-9.1 is revised as follows:

- 1. Median and Outside Shoulder Offset for shoulders less than 6': Dimension A and B are equal to 6"
- Median and Outside Shoulder Offset for shoulders 6' to 12': Dimension A and B are equal to half the shoulder width minus 12".
- 3. Median and Outside Shoulder Offset for shoulders greater than 12': Dimension A and B are equal to 5'.

The following estimated quantity shall be used to construct Item 618 - Rumble Strips, Shoulder (Asphalt Concrete), As Per Plan as per Standard Drawing BP-9.1 except as noted above:

> Item 618 - Rumble Strips, Shoulder (Asphalt Concrete), As Per Plan..... 21.33 Miles

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General

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It is the responsibility of the Contractor to provide through vehicular access in both directions at all times throughout the project area. The project shall be constructed in phases in order to minimize traffic disruption and inconvenience to the general public. The Contractor shall be responsible for providing all equipment, materials and manpower needed to adequately maintain traffic as provided for in the plans and specifications.

The Contractor is reminded that, in the conduct of this project, the sequence of operations shall be planned in a fashion which minimizes the number of lane reductions and/or lane width reductions required to maintain traffic through the

Permitted lane closures shall be as shown on the "Schedule of Through Lanes to be Maintained" table. The time limits shown in this table shall be adhered to or road user costs will be assessed.

Construction Sequence

No permanent maintenance of traffic zones are detailed in these plans. Traffic shall be maintained in accordance to the "Schedule of Through Lanes to be Maintained" note. All work zone closures shall comply with the appropriate Standard Construction Drawings.

Prior to opening all lanes to normal traffic, the Contractor shall ensure that the pavement is in a drivable condition with no potholes or dust and that all longitudinal drop-offs greater that 1-1/2" and transverse drop-offs are ramped as per the "Maintaining Traffic and Sequence of Operations" note.

Maintenance of Traffic Control Zones

The Contractor shall be responsible to maintain the signs, drums or cones specified in the Standard Construction Drawings. When the Contractor is notified of deficiencies, he shall correct the deficiencies as soon as possible, preferably within 12 hours and no later than 24 hours. If any noted deficiencies are not corrected within 24 hours the Engineer shall deduct one day of liquidated damages per Table 108.07-1 of the CMS from Item 614 – Maintaining Traffic. The Contractor shall be subject to these road user costs for each and every day that these provisions are not met. All costs for maintaining the work zones as described above shall be included under Item 614 - Maintaining Traffic.

Suspension of Work

If the Contractor fails to comply with the provisions for traffic control as set forth in these plans or with provisions of the OMUTCD, the Engineer shall suspend work until the Contractor complies with the necessary requirements.

Lane Closure/Reduction Required

Length and duration of lane closures and restrictions shall be at the approval of the Engineer. It is the intent to minimize the impact to the traveling public. Lane closures or restrictions over segments of the project in which no work is anticipated within a reasonable time frame, as determined by the Engineer, shall not be permitted. The level of utilization of maintenance of traffic devices shall be commensurate with the work in progress.

Payment

All work and traffic control devices shall be in accordance with CMS 614 and other applicable portions of the specifications, as well as the Ohio Manual of Uniform Traffic Control Devices. Payment for all labor, equipment, and materials shall be included in the lump sum contract price for Item 614 - Maintaining Traffic unless separately itemized in the plans.

Schedule of Through Lanes to be Maintained

All lane closures may only be implemented at the times permitted by the "District 12 Permitted Lane Closure Times" list, which is located on the ODOT website:

www.dot.state.oh.us/districts/D12/HighwayManagement/Pages/PermittedLaneClo sures.aspx

The latest revision, at 14 days prior to the bid date, shall be in effect for this project.

No lane or shoulder closures shall be in place when no work is being performed. Shoulder closures shall only be allowed at the times specified for lane closures.

Any roadway not listed shall not have any lane closures on weekdays from 6:30am to 9:00am and 3:00pm to 6:00pm. Contact Steven Tyneski, District 12 Work Zone Traffic Manager, at (216) 584-2128 if there are any questions.

	IR-271 Ramps*	
	Permitted Ramp Close	ures, Lane Reductions
Location	Short Term Closure	Partial Width Closure (maintain one 11' lane)
One-Lane Ramps	9:00pm – 5:00am **	7:00pm – 5:00am
Two-Lane Ramps	Not Permitted	7:00pm – 5:00am

^{*}Not for use on the IR-271/IR-90 system interchange.

Ramp Closures for Resurfacing

The Contractor may close one ramp at a time at each location for milling, partial depth pavement repairs, or resurfacing. Closures for ramps scheduled for repairs and resurfacing shall be limited according to the days of the week and hours shown in the "Schedule of Through Lanes to be Maintained" table.

The motoring public shall be given advance warning of closures at least 72 hours in advance through the use of either a ground mounted flat sheet sign or a portable changeable message sign. A LEO with patrol car (paid for separately) shall be used for each ramp closure and be present for the entire closure time.

Freeway entrance ramps shall be closed with a PCMS suggesting a recommended detour.

Freeway exit ramps shall be closed with a PCMS routing traffic to the next exit and a second PCMS indicating a U-turn at the exit, unless directed differently by the Project Engineer.

For ramp closures, one or two additional PCMS units will be needed as described above. These will be in addition to the PCMS units specified in the plans and shall be included for payment in Item 614 – Maintaining Traffic.

Alternate Methods

If the Contractor so elects, he may submit alternate methods for the maintenance of traffic, provided the intent of the provisions is followed and no additional inconvenience to the traveling public results there from. No alternate plan shall be placed into effect until approval has been granted, in writing, by the Director.

All items proposed for use under these provisions must comply with current Department standards for their use when the plan detail. Standard Construction Drawing or other bid document governing their use is not provided as part of the bid package.

Construction Traffic

All construction traffic shall use acceptable truck routes to access the construction area. Use of local residential streets is strictly prohibited unless allowed in writing by the local enforcement authorities.

Lane Value Contract Table

Description of Critical Lane/Ramp to be Maintained	Direction	Lanes	Restricted Time Period	Time Unit	Disincentive (per time unit per lane)
IR-271:					
US-322 to IR-90	NB & SB	3	As Per the Permitted	Each	\$390
03 322 to III 30	140 & 30	,	Lane Closure Schedule	Minute	7550
Ramp C	NB to WB	2	As Per the Permitted	Each	\$175
Ramp C	ND to WD		Lane Closure Schedule	Minute	\$175
Damp A	EB to SB	2	As Per the Permitted	Each	\$225
Ramp A	ED 10 3B	2	Lane Closure Schedule	Minute	\$225
IR-90					
Rockefeller Rd. to IR-271	EB & WB	3	As Per the Permitted	Each	\$280
Nockelellel Nu. to IN-2/1	LD & VVD	3	Lane Closure Schedule	Minute	\$280
IR-271 to SR-91	EB & WB	3	As Per the Permitted	Each	\$280
IN-2/1 (U SR-91	ED & WB	3	Lane Closure Schedule	Minute	328U

The Contractor shall be assessed a disincentive in the amount of the largest disincentive within all sections impacted by the physical lane restriction, including the Transition Area, Activity Area, and Termination Area as defined by the OMUTCD.

^{**}Each ramp shall be closed for a maximum of two (2) separate times using an approved detour. Any closure shall be as directed by the Engineer.

				SHEET	NUM.		PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEE	
6-12	13-15	17	18	19	20		01/IMS/PV	''-'''	EXT	TOTAL		DECOMIT TON	NO.	CALC
												ROADWAY		
769							769	209	60201	769	STA	LINEAR GRADING, AS PER PLAN	7	
												EROSION CONTROL		4
							1,000	832	30000	1,000	EACH	EROSION CONTROL		_
												POUR USE		_
								011	00071		E4011	DRAINAGE		_
6							6	611	98631	6	EACH	CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN	8	
1,000							1,000	SPECIAL	61199820	1,000	LB	MISCELLANEOUS METAL	8	
												PAVEMENT PAVEMENT		-
2,550							2,550	251	01021	2,550	SY	PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN A		-
5,300							5,300	X 51		3,308		PANTIAN DENTHYAVEMENT REPAIR (442), AS KER RLAN B		\dashv
,,,,,,		305,532	21,057				326,589	254	01000	326,589	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.5"		\neg
690		,					690	1234		1001		RAVINEIN PLANING, ROBINAIN COMENT CONCORTE, AS PER PLAN, 1.5"		\neg
58		25,971	1,789				27,818	407	20000	27,818	GAL	NON-TRACKING TACK COAT		1
		8,848	420				9,268	442	00100	9,268	CY	ANTI-SEGREGATION EQUIPMENT		
31			551				582	442	10001	582	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PG76-22M, 1.5"	9	
		12,753	337				13,090	442	10301	13,090	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PG76-22M, 1.5"	9	
475							475	617	10101	475	CY	COMPACTED AGGREGATE, AS PER PLAN	9	
21.33							21.33	618	40601	21.33	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE), AS PER PLAN	9	_
			3,616				3,616	872	10000	3,616	FT	VOID REDUCING ASPHALT MEMBRANE (VRAM)		
														_
							<u> </u>					TRAFFIC CONTROL		
				1,376	215		1,591	621	00100	1,591	EACH	RPM		
1,200				10.07			1,200	621	54000	1,200	EACH	RAISED PAVEMENT MARKER REMOVED		
				18.03	3.3		112,529	646	10010	21.33	MILE	EDGE LINE, 6"		
				16.57	1.07		17.64	646	10110	17.64	MILE	LANE LINE, 6"		
				10,320	941		11,261	646	10310	11,261	FT	CHANNELIZING LINE, 12"		\dashv
					104		104	646	10400	104	FT	STOP LINE		\dashv
					461		461	646	10500	461	FT	CROSSWALK LINE		\dashv
				1,636	401		1,636	646	10600	1,636	FT	TRANSVERSE/DIAGONAL LINE		\dashv
				1,030	15		15	646	20300	15	EACH	LANE ARROW		
					6		6	646	20320	6	EACH	WRONG WAY ARROW		
				5,638	ľ		5,638	646	20504	5,638	FT	DOTTED LINE, 6"		\dashv
				0,000			3,000				, ,	SO TES ELLEY O		
												TRAFFIC SIGNALS		
6							6	632	26501	6	EACH	DETECTOR LOOP, AS PER PLAN	10	
												MAINTENANCE OF TRAFFIC		
	300						300	614	11110	300	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE		
	10						10	614	12484	10	EACH	WORK ZONE INCREASED PENALTIES SIGN		
	50						50	614	13001	50	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC, AS PER PLAN	12	_
	9						9	614	18601	9	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	13	
	17.64						17.64	614	20110	17.64	MILE	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT		
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	17.64						17.64	614	20560	17.64		WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT		
	21.33						21.33	614	22110	21.33		WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT		
	21.33						21.33	614	22360	21.33		WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT		
							11,261	614	23210	11,261		WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT		
	11,261						11,261	614	23690	11,261	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT		
	11,261						5,638	614	24202	5,638	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 642 PAINT		
	11,261				ı			614	24202	5,638		WORK ZONE DOTTED LINE, CLASS 11, 6", 642 PAINT		_
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LENGTH BEGIN WIDTH AVERAGE WIDTH ANTI-SEGREGATION ASPHALT CONCRETE SURFACE COURSE, 1.5" AVERAGE WIDTH AVERAGE WIDTH	BEGIN WIDTH AVERAGE WIDTH AVERAGE WIDTH AVERAGE WIDTH ASPHALT CONCRETE SURFACE COURSE, 1.5" AVERAGE WIDTH AVERAGE WIDTH	BEGIN WIDTH AVERAGE WIDTH AVERAGE WIDTH AVERAGE WIDTH ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, PGT6-22M, 1.5" ASPHALT CONCRETE ANTI-SEGREGATION A	AVERAGE WIDTH AVERAGE WIDTH ASPHALT CONCRETE, 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PGT6-22M, 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, TYPE A (447), AS PER PLAN,	AVERAGE WIDTH ANTI-SEGRECATION BEGIN WIDTH ANTI-SEGRECATION AN	AREA PAVEMENT PLANING, ASPHALT CONCRETE, 1.5" PAYEMENT PLANING, ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, POTG-22M, 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, POTG-22M, 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, AND ASPHALT CONCRETE, 1.5" AVERAGE WIDTH AVENENT PLANING, ASPHALT CONCRETE, 1.5" PAYEMENT PLANING, ASPHALT PLANING,	BEGIN WIDTH ANTI-SEGREGATION ASPHALT CONCRETE, 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, FYPE A (446), AS PER PLAN, FOLE-ZM, 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, FYPE A (446), AS PER PLAN, FYPE A (441), AS PER PLAN, FY	ASPHALT CONCRETE SUBFACE COURSE, IZ.5 MM, TYPE A (446), AS PER PLAN, TYPE A (446), AS PER PLAN, TYPE A (447), AS PER PLAN, TYPE A	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, BEGIN WIDTH ANTI-SECRECATION ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, TYPE A (447),	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PGT6-22M, 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, TY	ASPHALT COURSET AS MA, TYPE A (447), AS PER PLAM, TYPE A (447), AS PER PLAM	BEGIN WIDTH AVERAGE WIDTH AVERAGE WIDTH AVERAGE WIDTH ANTI-SEGREGATION EQUIPMENT ANTI-SEGREGATION EQUIPMENT ANTI-SEGREGATION ANTI-SEGREGATION ANTI-SEGREGATION ANTI-SEGREGATION ANTI-SEGREGATION EQUIPMENT ANTI-SEGREGATION ANTI-SEGREG	BEGIN WIDTH AVERAGE WIDTH AVERAGE WIDTH ANTI-SECRECATION EQUIPMENT BEGIN WIDTH ANTI-SECRECATION THE ANT	BEGIN WIDTH ENDING WIDTH AVERAGE WIDTH ANEWENT PLANING, ASPHALT CONCRETE, 1.5" NON-TRACKING TACK COAT EQUIPMENT EQUIPMENT THE ANTI-SEGREGATION TH	AVERAGE WIDTH AVERAGE WIDTH AREA ASPHALT CONCRETE, 1.5" NON-TRACKING TACK COAT ANTI-SEGREGATION EQUIPMENT THE STATE OF TACK TACK TACK TACK TACK TACK TACK TACK	AVERAGE WIDTH AREA PAVEMENT PLANING, SCHAULT CONCRETE, 1.5" ANTI-SEGREGATION EQUIPMENT TAKENING TACK COAT ANTI-SEGREGATION EQUIPMENT TAKENING TACK COAT TAKE	AREA PAVEMENT PLANING, ASPHALT CONCRETE, 1.5" NON-TRACKING TACK COAT EQUIPMENT TO SECRECATION TO SECRECAT	PAVEMENT PLANING, GS ASPHALT CONCRETE, 1.5" BOUNCHETE, 1.5" PS ANTI-SEGREGATION EQUIPMENT TASEBREATION TAS	NON-TRACKING TACK COAT ANTI-SEGREGATION EQUIPMENT	ANTI-SEGREGATION EQUIPMENT			ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, 55 TYPE A (447), AS PER PLAN, 65 PG76-22M, 1.5"	CALCULATED JDA CHECKED EJK
FT. FT. FT. SY SY GAL CY CY CY FT. FT. FT. FT. SQ. YD. SY	FT. FT. FT. SY SY GAL CY CY CY CY FT. FT. FT. SQ. YD. SY	FT. FT. SY SS GAL CY CY CY FT. FT. FT. FT. SQ. YD. SY	FT. FT. SY CAL CY CY CY FT. FT. FT. SQ. YD. SY	FT. SY SS GAL CY CY CY FT. FT. FT. SQ. YD. SY	SY SY GAL CY CY CY FT. FT. FT. SQ. YD. SY	GAL CY CY CY FT. FT. FT. SQ. YD.	GAL CY CY CY FT. FT. FT. SQ. YD.	CY CY CY FT. FT. FT. SQ. YD. SY	CY CY FT. FT. FT. SQ. YD. SY	CY FT. FT. FT. SQ. YD. SX	FT. FT. FT. SQ. YD.	FT. FT. FT. SQ. YD.	FT. FT. SQ. YD.	FT. FT. SQ. YD.	FT. SQ. YD.	SQ. YD. SY			GAL	CY	CY	CY	
thbound IR-271 Southbound	<u>IR-271 Southbound</u>	IR-271 Southbound	<u>IR-271 Southbound</u>	IR-271 Southbound	<u>IR-271 Southbound</u>	<u>IR-271 Southbound</u>	<u>IR-271 Southbound</u>	<u>IR-271 Southbound</u>	<u>IR-271 Southbound</u>	<u>IR-271 Southbound</u>	<u>IR-271 Southbound</u>					L							
757+21.58 2404.42 56.0 56.0 56.0 14961 14961 1272 423 624 733+17.16 754+15.91 2098.75 56.0			56.0 56.0 14961 14961 1272 423 624 733+17.16 754+15.91 2098.75 56.0	56.0 14961 14961 1272 423 624 733+17.16 754+15.91 2098.75 56.0	14961 14961 1272 423 624 733+17.16 754+15.91 2098.75 56.0	14961 1272 423 624 733+17.16 754+15.91 2098.75 56.0	1272 423 624 733+17.16 754+15.91 2098.75 56.0	423 624 733+17.16 754+15.91 2098.75 56.0	624 733+17.16 754+15.91 2098.75 56.0	624 733+17.16 754+15.91 2098.75 56.0	733+17.16 754+15.91 2098.75 56.0	2098.75 56.0	56.0	ŀ	56.0	56.0	13059	13059	1110	369		545	
758+20.77 99.19 56.0 68.0 62.0 683 683 58 20 29 754+15.91 758+66.42 758+66.41 45.64 68.0 69.0 68.5 347 347 29 11 15											754+15.91 758+66.42	-	450.51	56.0	65.0	60.5	3028	3028	257	89		127	
Sta. 758+66.42 BK = Sta. 0+00.00 AH											Sta. 758+66.42 BK = Sta. 0+00.00 AH												
Sta. 0+00.00 AH	0,00,00	0,00,00	0,00,00	0.00.00	0,00,00	0,00,00	0,00,00	0.00.00	0.00.00	0.00.00	0.00.00	_	470.50	05.00	75.00	70.0	7707	7707	715	115		15.5	>
3+00.00 300.00 69.0 72.0 70.5 2350 2350 200 73 98 4+76.56										<u> </u>		4+76.56 11+00.00	476.56 623.44	65.00 75.0	75.00 93.5	70.0 84.3	3707 5836	3707 5836	315 496	115 191		155 244	🛎
												+00.00 11+54.33	54.33	56.0	56.0	56.0	338	338	29	10		15	4
10+84.86 384.86 74.0 100.0 87.0 3720 3720 316 123 155	384.86 74.0 100.0 87.0 3720 3720 316 123 155	74.0 100.0 87.0 3720 3720 316 123 155	100.0 87.0 3720 3720 316 123 155	87.0 3720 3720 316 123 155	3720 3720 316 123 155	3720 316 123 155			l]	Suspend Mainline Work											Z Z
11+54.33 69.47 56.0 56.0 56.0 432 432 37 12 18 Iline Work	69.47 56.0 56.0 432 432 37 12 18	56.0 56.0 56.0 432 432 37 12 18	56.0 56.0 432 432 37 12 18	56.0 432 432 37 12 18	432 432 37 12 18	432 37 12 18	37 12 18	12 18	18	18	-	Resume Mainline Work											
mine work			+ + + + + + + + + + + + + + + + + + + +	+ + + + + + -	 	 		+				28+83.68 29+74.57	90.89	44.0	33.0	38.5	389	389	33	9		17	S
line Work				_								29+74.57 33+18.31	343.74	89.0	68.0	78.5	2998	2998	255	96		125	m
	_	29.84	56.0	56.0	56.0	186	186	16	5		8	33+18.31 40+14.21	695.90	68.0	68.5	68.3	5277	5277	449	162		220	0,
34+62.78 37+25.77	_	456.94 262.99	95.0 85.0	85.0 78.0	90.0 81.5	4569 2382	4569 2382	388 202	152 77	1	191 100	40+14.21 41+16.18 41+16.18 99+40.85	101.97 5824.67	68.5 56.0	56.0 56.0	62.3 56.0	705 36242	705 36242	60 3081	21 1025	 	30 1511	S
37+25.77 45+41.77		262.99 816.00	78.0	56.0	67.0	6075	2382 6075	202 516	185	1	254	99+40.85	3024.01	30.0	30.0	30.0	30242	30242	3001	1025		11011	
84+58.74		3916.97	56.0	56.0	56.0	24372	24372	2072	689		1016	99+40.85 106+80.62	739.77	97.5	97.5	97.5	8014	8014	681	272		334	Z
												106+80.62 110+70.80	390.18	78.5	69.0	73.8	3197	3197	272	101		134	ш
Sta. 84+48.9	7 AH			+		-	ļ			-		110+70.80 114+56.57	385.77	69.0	64.0	66.5	2850	2850	242	87	 	119	≥
94+05.27		956.30	56.0	56.0	56.0	5950	5950	506	168		248	114+56.57 115+91.14 115+91.14 126+25.56	134.57 1034.42	64.0 56.0	56.0 56.0	60.0 56.0	897 6436	897 6436	76 547	26 182	1	38 269	4
		84.54	98.0	97.5	97.8	6349	6349	540	216	†	265	120.20.00	.557.72	30.0	1 30.0	30.0	7,50	1 3,30	1	102	<u>† </u>		
116+29.89	_	1640.08	78.8	56.0	67.4	12282	12282	1044	375		512	126+25.56 126+88.34	62.78	56.0	58.0	57.0	398	398	34	11		17	4
125+88.34	ļ	958.45 876.08	56.0	56.0	56.0	5964	5964	507	169		249	126+88.34 134+64.42	776.08	58.0	58.0	58.0	5001	5001	425	144		209	-
134+64.42 876	876	.08	56.0	58.0	57.0	5549	5549	472	158	1	232	Sta. 134+64.42 BK = Sta. 0+00.00 AH											
Sta. 0+00.00 AH	\vdash			+	1	1				1		310. 07.707.712 DN - 310. 0700.00 AH						<u> </u>			 		
												0+00.00 46+98.00	4698.00	58.0	58.0	58.0	30276	30276	2573	870		1262	
53+50.00		5350.00	58.0			34478	34478	2931	991		1437	46+98.00 58+97.88	1199.88	58.0	70.0	64.0	8532	8532	725	256		356	
58+9		547.35	58.0	96.0	77.0	4683	4683	398 260	150 70	+	196	58+97.88 63+72.46	474.58	70.0	90.0	80.0	4218 1715	4218	359 146	136	1	176	
65+30 87+6		632.65 2233.18	52.0 38.0	38.0 38.0		3163 9429	3163 9429	269 801	79 207		132 393	63+72.46 67+47.71 67+47.71 85+83.78	375.25 1836.07	44.3 38.0	38.0 38.0	41.1 38.0	1715 7752	1715 7752	146 659	40 170	1	72 323	
90+58		295.54	38.0	41.0	39.5	1297	1297	110	29		55	3	1.550.07									525	
												85+83.78 90+58.54	474.76	38.0	45.5	41.8	2202	2202	187	52		92	
																							CUY/LAK-271- 13.61/0.00
												TOTALS	RIGHT C , LEFT C	COLUMN	-			153,067	13,011	4,434		6,390	
				+	-	1				1								152,465	12,960	4,414	1	6,363	3.5
	7T11C	LEFT C	<u> </u> 	1		4	152,465	12,960	4,414	+	6,363	TOTALS CARRIE	TO GEN	IERAL SI	UMMARY	,		305,532	<i>25,971</i>	8,848		12,753	1\3.5/

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STATION OF	STATION TO STATION	TYPE A (446), AS PER PLAN, PG76-22M, 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PG76-22M, 1.5" VOID REDUCING ASPHALT MEMBRANE (VRAM)								 	 	 	 	 		- - 		- - 			- 	- 											- 	 	 	- - 	 	- - - ;				 ,	 .			no	O						
STATION OF	STATION TO STATION	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, TYPE A (2011 1.5"				(E	ı T			1	\vdash		+	+	+	+	\vdash	+	\vdash	\vdash	+	+	\vdash	\longmapsto				lacksquare	\Box	\longrightarrow	\longmapsto	\leftarrow	+	\vdash	++	\vdash			\vdash	\vdash		\vdash	\vdash		, I	<u> </u>							551
STATION UP	STATION TO STATION STATIO	ANTI-SEGREGATION EQUIPMENT				T						$\overline{}$								\longrightarrow	\longrightarrow	\longrightarrow														+						 	+		I								420
STATION Harding Hardin	STATION TO STATION Columb	NON-TRACKING TACK COAT				Т						+		$\overline{}$			+			\longrightarrow	\longrightarrow													$\overline{}$	$\overline{}$	\longrightarrow	\longrightarrow	+	+	\longrightarrow	+	 +			l								1,789
STATION H	STATION TO STATION STATION TO STATION STA	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER 55 PLAN, 1.5"																																																			21,057
STATION H	STATION TO STATION Fig. F	AREA														+						-																		-		-		1	i								
STATION UNITED STATION	STATION TO STATION Fig. F	AVERAGE WID									$\overline{}$	-+					-			\longrightarrow															+	\longrightarrow					\longrightarrow	 	\longrightarrow		J	\longrightarrow							
STATION	STATION TO STATION	ENDING				T																																							- 1								
STATION H	STATION TO STATION H	BEGIN																																										I	1								
STATION Harding Barbon Statio	STATION TO STATION Hard H					T																																						I	j								
STATION Hard Hard	Ramp A-1	STATION TO STATION																										 																								TOTALS, R	TOTALS, R TOTALS, I
STATION Hard Hard	Ramp A-1 H_LOIN STATION STAT	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PGT6-22M, 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PGT6-22M, 1.5"		7	29	24	59	55		41				23			19				47					95	9			13			10			31								i									
STATION Hard	STATION TO STATION	ANTI-SEGREGATION EQUIPMENT		2	9	7	30	32		23				U			7	1			21					31	3			6			Е			13																	
Hard	STATION TO STATION	NON-TRACKING TACK COAT		13	57	48	119	111		83				70			3.8				94					192	17			26			20			75																	
STATION Harding Hardi	STATION TO STATION STA	PAVEMENT PLANING, 53 ASPHALT CONCRETE, 1.5" 5		15 7	673	560	1404			976				333			446				1100						202			302			271			002																	
STATION STAT	STATION TO STATION	AREA		157	673	560	1404			976				333			446				1106						202			302			271			002																	
STATION STAT	STATION TO STATION FT. FT. FT.	AVERAGE WID		29.0	26.4	26.4	36.5			41.0		29 7	27.1	21.7			27.8	25.5	20.0		44.5					27.0	28.0			36.0			70 F		37.5	37.3																	
STATION FT. FT.	STATION TO STATION	ENDING WID		29.0	23.7	29.0	44.0	43.5		41.0	31.0	27.5	27.7	21.5			27.0	21.0	24.0	47.0	45.0				15.0	27.0	29.0			39.0			70.0		36.0	30.0																	
## Property	STATION TO STATION	BEGIN WID		29.0	29.0	23.7	29.0	44.0		41.0	41.0	31.0	27.5	21.0			28.6	27.0	21.0	24.0	44.0				15.0	27.0	27.0			33.0			40.0			33.0																	
A-1 11+24.94	Ramp A-1	LENGT		48.78			346.16			 214.34				113.02			144 50				223.00					752.31	64.90			75.46			E2 C0			211.13																	
пр	Ran	TO STATION	np A-1	11+24.94		15+45.84	18+92.00		np A-2	4+08.40				0,00.24	n 1-3	<u>ір я 5</u>	12+50 00	13+51 73			21+03.01	on 4 4	<u>ιρ 4-4</u>				10+11.78	 ımp C		42+25.46		<u>IMP A</u>	CLOE OC			25+40.42																	

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