KNO-715/206-0.00-4.26 06-09-99 PID # 19439

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STATE OF OHIO

OHIO DEPARTMENT OF TRANSPORTATION

KNO-715-0.00 BUTLER & UNION TOWNSHIP KNOX COUNTY COS-715-0.00 NEW CASTLE & JEFFERSON TOWNSHIP COSHOCTON COUNTY

COS-206-5.98 NEW CASTLE TOWNSHIP COSHOCTON COUNTY

PROJECT DESCRIPTION

2-LANE RESURFACING AND RELATED WORK

(Gann P.O.)	
	1
COSHOCTON COUNTY	
TIVERTON	-
DOWNOR!	- 1
SLM 0.00	
2	
END WORK	-
SLM 6.21	
BUTLER	E F
Esto Hollie	F F
KNOX	(
COUNTY	

LOCATION COUNTY		OUNTY ROUTE	SECTIONS	PROJECT TERMINI		NET	\4T4 4.05	
LOCATION	COBINT	RODIE	SECTIONS	BEGIN	END	LENGTH MILES	VILLAGE	
ı	KNO.	SR 715	(0.00-4.26)	0.00	4,26	4.26		
2	cos.	SR 715	(0.00-2.54)	0.00	2.54	2.54		
3	cos.	SR 715	(3.19-8.21)	3.19	8.21	5.02	NELLIE	
4	cos.	SR 206	(5.98-6.63)	5.98	6.63	0.65		

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THE STANDARD 1997 SPECIFICATIONS OF THE STATE OF OHIO DEPART-MENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND THE PROPOSAL SHALL GOVERN THESE IMPROVEMENTS.

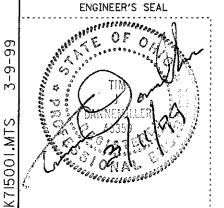
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THESE IMPROVEMENTS WILL NOT REQUIRE THE CLOSING OF THE HIGHWAY AND PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS INDICATED IN THE PROPOSAL.

TRANSPORTATION

UNDERGROUND UTILITIES TWO WORKING DAYS

BEFORE YOU DIG CALL 1-800-362-2764 (TOLL FREE) OHIO UTILITIES PROTECTION SERVICE NON-MEMBERS MUST BE CALLED DIRECTLY

40 16 AS 8140



DESIGN DESIGNATION	
Current ADT (1999)	330
Design Year ADT (2011)	430
Design Hourly Volume (2011)	10%
Directional Distribution	55%
Trucks (24 Hour B&C)	10%
Design Speed	55 mph
Lega! Speed	55 mph

STANDARD DRAWINGS		STANDARD DRAWINGS		STANDARD DRAWINGS	
BP-3.1	10-28-94	TC-65.11	11-1-95	GR-1.2	10-30-92
BP-4.I	10-28-94	TC-65.12	11-1-95	GR-1.3	02-21-92
MT-95.30	4-25-94	TC-71.10	9-1-93	GR-4.1	05-06-91
MT-95.3!	4-25-94	TC-105.10	07-01-92	GR-4.2	05-06-91
MT-95.32	4-25-94	TC-105.11	07-01-92		
MT-97.11	1-30-95	GR-2.4M	10-21-97	SUPPLEMENTAL	
MT-99.20	I -30-95	GR-2.1	05-06-91	SPECIFICATIONS	
TC-65.10	11-1-95	GR-I.	05-06-91	806	9-9-97

PLAN PREPARED BY:





NON-FEDERAL

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FEDERAL PROJECT

UTILITIES

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT SHOULD NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER OR ADJACENT TO THE WORK AREA. BELOW IS A LIST OF UTILITIES LOCATED WITHIN THE WORK AREA AND IT IS THE RE-SPONSIBILITY OF THE CONTRACTOR TO CONTACT OWNERS AND VERIFY LOCATIONS

> WAYNE-HOLMES ELECTRIC COOPERATIVE P.O. BOX 112 MILLERSBURG, OHIO 44654 ATTN: DAVE LINGENFELTER 330-674-1055

SPRINT UNITED TELEPHONE 15 EAST GAMBIER STREET MT. VERNON, OH 43050 ATTN: BRENDA COON 740-397-3609

FRONTIER POWER COMPANY 770 S. SECOND STREET P. O. BOX 270 COSHOCTON, OH 43812 ATTN: DAVE ENDLICH, LINE SUPRV. 740-622-6755

GTE NORTH, INCORPORATED 1121 TUSCARAWAS AVENUE. NW NEW PHILADELPHIA, OH 44663 ATTN: PHIL RODEBUSH 330-364-0588

NOTIFICATION OF ROAD CLOSURE OR RESTRICTION

IN ORDER FOR ODOT TO PROPERLY PERMIT OVERSIZE LOADS, PREPARE PROPER SIGNING WHEN REQUIRED AND FURTHER TO NOTIFY THE GENERAL MOTORING PUBLIC. THE CONTRACTOR SHALL NOTIFY (IN WRITING) THE DISTRICT 5 HIGHWAY MANAGEMENT ADMINISTRATOR WITH COPIES FOR THE DISTRICT 5 ROADWAY SERVICES MANAGER AND PROJECT ENGINEER NOT LESS THAN 21 DAYS BEFORE SUCH CLOSURE OR LANE RESTRICTIONS.

SEND NOTIFICATION TO:

DISTRICT 5 HIGHWAY MANAGEMENT ADMINISTRATOR P.O. BOX 306 JACKSONTOWN, OH. 43030 PHONE: (740) 323-4400 EXT. 5241

KOKOSING STATE SCENIC RIVER SCENIC RIVER CONDITIONS IN ACCORDANCE WITH OHIO REVISED CODE SECTION (O.R.C.) 1597.16.

1. NO EARTHWORK OF ANY TYPE, GRUBBING, EXCAVATING OR FILLING WILL BE PERMITTED WITHIN ONE-THOUSAND (1,000) FEET OF THE KOKOSING STATE SCENIC RIVER.

NO IN STREAM WORK, BANK SHAPING OR CHANNEL MODIFICATION OF ANY TYPE WILL BE PERMITTED WITHIN THE KOSOSING RIVER OR WITHIN 1,000 FEET UPSTREAM OF ANY TRIBUTARY WATERCOURSE

2. IF ANY EARTHWORK IS CONDUCTED WITHIN THE PROJECT AREA, A SEDIMENT AND EROSION CONTROL PLAN SHALL BE DEVELOPED AND IMPLEMENTED BE-FORE EARTHWORK COMMENCES. ALL CONTROLS SHALL BE PROPERLY MAIN-TAINED UNTIL FINAL SITE STABILIZATION IS ACHIEVED. ALL DENUTED AREAS SHALL IIMMEDIATELY BE SEEDED AND MULCHED UPON COMPLETION OF EARTH-WORK.

PROPERLY INSTALLED (FRAMED and ENTRENCHED) SEDIMENT FENCE SHALL BE UTILIZED AROUND ANY STORM SEWER INLETS. APPROPRIATELY DESIGN ROCK CHECK DAMS AND OTHER EROSION CONTROLS SHALL BE UTILIZED IN DITCHES AND CULVERTS. ANY DENUDED DITCHES AND CULVERTS SHALL IMMEDIATELY BE SEEDED AND PROTECTED WITH EROSION CONTROL MATTING OR SOD UPON COMPLETION OF EARTHWORK.

- 3. NO CUTTING OR CLEARING OF ANY RIPARIAN VEGETATION WITHIN 1000 FEET OF THE KOKOSING RIVER SHALL BE PERMITTED.
- 4. NO TOXIC OR HAZARDOUS MATERIALS (ASPHALT, SEALANTS, PAINT, ETC.) EARTHEN MATERIAL. WASTE WATER OR DEBRIS OF ANY SORT SHALL BE DISCHARGED TO THE KOKOSING RIVER OR ANY TRIBUTARY WATER COURSES.

ALL ASPHALT GRINDINGS, EXCESS ASPHALTIC MATERIAL OR ANY OTHER DEBRIS GENERATED DURING RESURFACING SHALL BE REMOVED FROM WITHIN 1,000 FEET OFTHE KOKOSING RIVER AND DISPOSED OF AT AN APPROPRIATE FACILITY ABOVE THE 100 YEAR FLOOD ELEVATION OF THE KOKOSING RIVER.

5. BOB GABLE, CENTRAL OHIO SCENIC RIVER COORDINATOR SHALL BE INVITED TO A PRECONSTRUCTION MEETING WITH THE CONTRACTOR PRESENT. PLEASE PROVIDE SUFFICIENT ADVANCE NOTICE TO ALLOW FOR CONFLICTS IN HIS SCHEDULE. THESE CONDITIONS MUST BE ATTACHED TO THE CONSTRUCTION ON DRAWINGS ON SITE AND AVAILABLE TO ALL CONSTRUCTION PERSONNEL THROUGHOUT THE DURATION OF THE PROJECT.

> BOB GABLE OHIO DEPARTMENT OF NATURAL RESOURCES 1889 FOUNTAIN SQ. CT., BLDG. F-1 COLUMBUS, OH 43224 PHONE: (614) 265-6814

ITEM 254 PAVEMENT PLANING, BITUMINOUS, AS PER PLAN

PLANING SHALL BE PERFORMED SUCH THAT THE PAVEMENT SURFACE IS SLOPED AT A RATE OF 0.0156 FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT TO RESTORE THE SLOPE TO THE ROADWAY, SLM 6.16 TO SLM 6.55 (MOHAWK DAM). AFTER PLANING, THE ROADWAY SHALL BE RESURFACED WITH 1.75" ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22 AND 1.25" ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22. THE ENGINEER MAY ADJUST PLANING DEPTHS AT ANY TIME TO MEET EXISTING CONDITIONS AT THE TIME OF CONSTRUCTION.

ITEM 254 PAVEMENT PLANING BITUMINOUS, AS PER PLAN QUANTITIES SHOWN ON SHEET 8.

ITEM 254 PATCHING PLANED SURFACE

A QUANTITY OF SURFACE PATCHING HAS BEEN INCLUDED IN THE PLAN TO REPLACE UNSOUND PAVEMENT RESULTING FROM PLANING. THE ENGINEER WILL DETERMINE WHERE THIS WORK WILL BE PERFORMED. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 254 - PATCHING PLANED SURFACE

LOCATION I.

LOCATION 2.

LOCATION 3, 600 SQ. YD.

LOCATION 4.

QUANTITY CARRIED TO GENERAL SUMMARY

SHOULDER RESTORATION

IN ORDER TO PROVIDE POSITIVE DRAINAGE FROM THE ROADWAY SURFACE TO THE SHOULDER BREAK. THE EXISTING ROADWAY SHOULDERS SHALL BE GRADED AND SHAPED USING A GRADER OF ADEQUATE SIZE TO PERFORM THE WORK TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR ALL OF THE ABOVE GRADING AND SHAPING WORK, INCLUDING LABOR AND INCIDENTALS, SHALL BE THE UNIT PRICE BID FOR ITEM SPECIAL - GRADER RENTAL, AND SHALL BE PAID FOR THE ACTUAL NUMBER OF GRADER HOURS WORKED.

ALL EXCESS MATERIAL REMAINING AROUND GUARDRAIL AND OTHER AREAS AFTER THE GRADER WORK IS COMPLETED AND NOT DISPOSED OF ON THE SITE. SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. PAYMENT FOR ALL OF THE ABOVE REMOVAL WORK SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - LOADER RENTAL, AND SHALL BE FOR THE ACTUAL NUMBER OF LOADER HOURS WORKED. ANY OTHER EQUIPMENT, LABOR OR INCIDENTALS REQUIRED TO COMPLETE THIS ITEM SHALL BE INCLUDED THEREIN FOR PAYMENT. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE ABOVE PURPOSES.

ITEM SPECIAL	LOCATION			LOCATION 4
GRADER RENTAL (HOURS)	3	2	4	ı
LOADER RENTAL (HOURS)	6	4	7	ı

ITEM 614 WORK ZONE MARKING SIGNS

A QUANTITY OF WORK ZONE MARKING SIGNS HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

WORK ZONE MARKING SIGNS	LOC. I	LOC. 2	LOC. 3	LOC. 4
OW-167 (NO EDGE LINES)	5	3	5	de la constante
R-33 (DO NOT PASS)	6	2	8	2
R-34 (PASS WITH CARE)	2	0	2	0
OW-128 (BEGIN ROAD CONSTRUCTION AHEAD)	6	3	5	2
OC-8 (END ROAD CONSTRUCTION)	6	2	4	l
TOTAL	25	10	24	6

LIQUIDATED DAMAGES FOR EXCESSIVE TIME BETWEEN PLANING AND PAVING

NO MORE THAN 21 CALENDAR DAYS SHALL ELAPSE BETWEEN THE TIME THE PAVEMENT PLANING OPERATION COMMENCES AND THE APPLICATION OF THE ITEM 448. ASPHALT CONCRETE-LIQUIDATED DAMAGES, AS DESCRIBED IN SECTION 108.07 OF THE STATE OF OHIO, CONSTRUCTION AND MATERIAL SPECIFICATIONS WILL BE DEDUCTED FROM ANY MONEY DUE THE CONTRACTOR FOR ALL DAYS IN EXCESS OF THE TIME LIMITS DESCRIBED ABOVE.

FEATHERING

FEATHERING OF THE ASPHALT CONCRETE WHERE REQUIRED SHALL BE ACCORDING TO DRAWING BP-3.1, 2-21-92.

PAVEMENT MARKING

STOP LINES, CROSSWALK LINES, CHANNELIZING LINES, TURN ARROWS, ETC., SHOWN ON THE PLAN ARE TAKEN FROM EXISTING MARKINGS. IT SHALL BE THE RESPONSI-BILITY OF THE CONTRACTOR TO PLACE NEW PAVEMENT MARKINGS AS NEAR AS POSSIBLE TO THE EXISTING LOCATIONS UNLESS OTHERWISE DESIGNATED BY THE ENGINEER.

ITEM 617, COMPACTED AGGREGATE, TYPE A. AS PER PLAN

ALL AGGREGATE SHALL BE 100% CRUSHED LIMESTONE. ALL QUALITY REQUIREMENTS EXCEPT SHALE SHALL BE WAIVED. OTHER GRADATION REQUIREMENTS SHALL BE AS SPECIFIED EXCEPT THE PLASTICITY INDEX SHALL BE WAIVED. IF SO DESIRED. THE CONTRACTOR MAY USE RECYCLED ASPHALT CONCRETE PAVEMENT (RACP MEETING REQUIREMENTS OF 617.03) IN LIEU OF CRUSHED LIMESTONE.

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ANY GRADING OF EXISTING DRIVES, TACK OR PRIME COAT, ALL MATERIAL, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE WORK ON DRIVES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE ASPHALT ITEM SHOWN BELOW, BECAUSE OF PAVEMENT PLANING, AN ESTIMATED QUANTITY OF SURFACE COURSE ONLY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR FEATHERING AT DRIVES.

PAVING OF THE MAINLINE SHALL BE COMPLETED BEFORE THE WORK DESCRIBED ABOVE SHALL BEGIN ON DRIVES.

THE QUANTITIES SHOWN IN THE BELOW HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR THE PURPOSE DESCRIBED ABOVE.

QUANTITIES CARRIED TO GENERAL SUMMARY

ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE I. PG 64-22 (1.75" THICK) [DRIVEWAYS], 34.6 CU.YD. TOTAL.

LOCATION | 5.5 CU.YD.

LOCATION 3 9.7 CU.YD.

LOCATION 2 15.9 CU.YD.

LOCATION 4 3.5 CU.YD.

ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22 (1.75" THICK) [DRIVEWAYS], 48.6 CU.YD. TOTAL.

LOCATION | 7.8 CU.YD.

LOCATION 3 13.6 CU.YD.

LOCATION 2 22.3 CU.YD.

LOCATION 4 4.9 CU.YD.

MAIL BOX TURN OUTS

A QUANTITY OF ASPHALT CONCRETE HAS BEEN PROVIDED IN THE PLAN TO COVER MAIL BOX TURN OUTS, TURN OUTS SHALL BE PAVED AS SHOWN IN THE DETAIL IN DRAWING BP-4.1. 2-21-92.

ANY EXTRA GRADING OF THE SHOULDERS, PRIME OR TACK COAT, MATERIALS, LABOR, EQUIPMENT TOOLS AND INCIDENTALS NECESSARY TO COMPLETE MAIL BOX TURN OUTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, PG 64-22 AND ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG 64-22

QUANTITIES CARRIED TO GENERAL SUMMARY

ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22 (1.75" THICK) [DRIVEWAYS], 15.5 CU.YD. TOTAL.

LOCATION | 1.9 CU.YD.

LOCATION 3 5.8 CU.YD.

LOCATION 2 3.9 CU.YD.

LOCATION 4 3.9 CU.YD.

ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22 (1.75" THICK) [DRIVEWAYS], 21.8 CU.YD. TOTAL

LOCATION | 2.7 CU.YD.

LOCATION 3 8.2 CU.YD.

LOCATION 2 5.4 CU.YD.

LOCATION 4 5.4 CU.YD.

ITEM 253 - PAVEMENT REPAIR, AS PER PLAN

AN ESTIMATED QUANTITY FOR PAVEMENT RÉPAIR HAS BEEN INCLUDED IN THE PLAN TO BE USED AS DIRECTED BY THE ENGINEEER WHERE THE EXISTING PAVEMENT HAS DETERIORATED. FINAL LOCATIONS OF PAVEMENT REPAIR SHALL BE DETERMINED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. DEPTH OF EXCAVATION SHALL BE APPROXIMATELY 5". AFTER PLANING HAS BEEN COMPLETED, THE FACE OF THE REPAIR SHALL BE COATED WITH ITEM 407 TACK COAT. REPLACEMENT MATERIAL WILL BE 5" OF ITEM 301 BITUMINOUS AGGREGATE BASE, PG 64-22 (PLACED AND COMPACTED AS DIRECTED BY THE ENGINEER). ALL EXCAVATION NEEDED TO ACHIEVE THE PROPER SLOPES FOR DRAINAGE ON BERMS AND ALL MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NEEDED TO COMPLETE THE WORK DESCRIBED ABOVE SHALL BE PAID FOR UNDER ITEM 253 PAVEMENT REPAIR, AS PER PLAN. AFTER ALL PAVEMENT REPAIR HAS BEEN ACCOMPLISHED, THE ENTIRE SURFACE WILL BE OVERLAID WITH 1.75" OF ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 AND 1.25" OF ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1.

THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THE ABOVE DESCRIBED PURPOSE.

ITEM 253 PAVEMENT REPAIR, AS PER PLAN 500 SQ.YD.

PAVED SHOULDERS

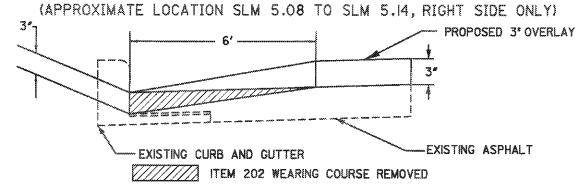
THE PAVED SHOULDER SHALL BE APPLIED IN TWO COURSES. THE FIRST BEING 1,75" OF ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22 AND IT SHALL BE APPLIED AT THE TIME AS THE FIRST COURSE ON THE ROADWAY. THE SECOND COURSE SHALL BE 1.25" OF ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG 64-22 TO BE APPLIED AT THE SAME TIME AS THE FINAL COURSE ON THE ROADWAY AS DIRECTED BY THE ENGINEER. THE FOLLOWING QUANTITIES FOR THE LOCATION 3 APPROACH PAVEMENT AT COS-715-4.95 STRUCTURE. EXCLUDING CURBED SECTION, AS DIRECTED BY ENGINEER HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR THIS PURPOSE.

ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22 60 CU.YDS. ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22 43 CU. YDS. ITEM 407 TACK COAT FOR INTERMEDIATE COURSE 62 GAL.

ITEM 407 TACK COAT 93 GAL.

ITEM 202 WEARING COURSE REMOVED, AS PER PLAN

AREAS OF CURB AND GUTTER WILL REQUIRE ITEM 202 WEARING COURSE REMOVED. AS PER PLAN, AS SHOWN IN THE DETAIL BELOW. IN ADDITION, ASPHALT FEATHERING AS PER STD DWG BP-3.1(2-21-92) SHALL BE PERFORMED IN THESE AREAS. THE QUANTITY LISTED BELOW HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THIS PURPOSE.



THIS ITEM SHALL ALSO BE USED TO REMOVE SOME GRADER PATCHES THROUGHOUT THE LIMITS OF THE PROJECT, AS DIRECTED BY THE ENGINEER. IT ALSO SHALL BE USED AT LOCATIONS SPECIFIED BY THE ENGINEER TO RESTORE THE CROWN TO THE ROADWAY, AN ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THE PURPOSES DESCRIBED ABOVE.

ITEM 202 - WEARING COURSE REMOVED, AS PER PLAN 2500 SQ. YDS.

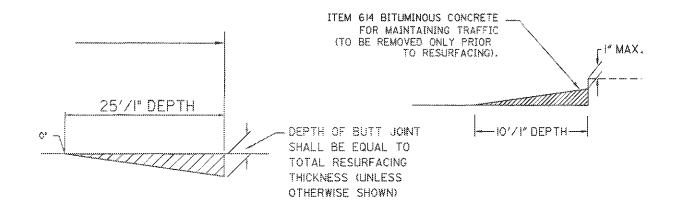
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A BUTT JOINT WILL BE REQUIRED AT LOCATIONS SPECIFIED BELOW AND AT EXTRA AREAS WITH WEARING COURSE REMOVED. AFTER THE JOINT IS CONSTRUCTED. THE DROP OFF CREATED SHALL BE MINIMIZED BY TEMPORARILY FILLING THE VOID TO WITHIN AT LEAST I' OF THE EXISTING ROADWAY SURFACE (SEE DETAIL BELOW). PLACEMENT AND REMOVAL OF TEMPORARY WEDGE SHALL BE INCLUDED FOR PAYMENT IN THE UNIT BID PRICE FOR THE APPROPRIATE ASPHALT REMOVAL ITEM (PAVEMENT PLANING OR WEARING COURSE REMOVED).



	ITEM 202 WEARING COURSE REMOVED SQ.YD.	ITEM 407 TACK COAT GAL.	ITEM 614 BITUMINOUS CONCRETE FOR MAINTAINING TRAFFIC CU. YD.	LOCATION
	200	3	1.5	@ SLM 0.00 LOCATION
TOTAL	200	3	1.5	LOCATION
	300	6	2.3	BRIDGE @ COS-715-1.82
TOTAL	300	6	2.3	LOCATION 2
	300	6	2.3	BRIDGE @ COS-715-4.13
	300	8	2.8	BRIDGE @ COS-715-4.95
	200	3	1.5	@ SLM 8.21
TOTAL	800	17	6.6	LOCATION 3
	300	3	1.5	BRIDGE @ COS-206-6.04
TOTAL	300	3	1.5	LOCATION 4

TOTALS CARRIED TO GENERAL SUMMARY

GUARDRAIL ITEMS

AT FOLLOWING LOCATIONS NEW GUARDRAIL ITEMS WILL BE INSTALLED AT THE EXISTING DRAINAGE HEADWALL STRUCTURE AS DIRECTED BY THE ENGINEER. MAINTAIN A MINIMUM OF 2' FROM THE EDGE OF PAVEMENT TO THE FACE OF GUARDRAIL OR AS DIRECTED BY THE ENGINEER. LOCATION 1:

KNO-715-2,10 RT SIDE

PROVIDE 25' ITEM 606, GUARDRAIL, TYPE 5 WITH DOUBLE RAILS (STD DWG. GR 2.4M) CENTERED AT THE STRUCTURE. EXTENDING THE RUN ON EACH END 12.5' WITH GUARDRAIL TYPE 5 ON A 5'RADIUS, ENDING THE RUN WITH TYPE T ANCHOR ASSEMBLIES AT BOTH ENDS

KNO-715-1.42 RT SIDE.

PROVIDE 50' ITEM 606, GUARDRAIL, TYPE 5 (40' APPROACH END AND 10' TRAILING END FROM CENTER OF CULVERT,) WITH TYPE A ANCHOR ASSEMBLY AT BOTH ENDS, FLARED AS PER STD. DWG. GR-4.1

LOCATION 3:

COS-715-7.70 RT SIDE

PROVIDE 25' ITEM 606, GUARDRAIL, TYPE 5 CENTERED AT THE STRUCTURE, EXTENDING THE RUN ON EACH SIDE WIT 12.5' OF GUARDRAIL TYPE 5 ON A 5'RADIUS, ENDING THE RUN WITH TYPE T ANCHOR ASSEMBLIES AT BOTH ENDS.

ITEM EXT. DESCRIPTION	LOC. I LOC. 3
606 13020 GUARDRAIL TYPE 5 WITH DOUBLE RAILS	25 L.F
606 13000 GUARDRAIL, TYPE 5	75 L.F. 25 L.F.
606 25000 ANCHOR ASSEMBLY, TYPE A	2 EA
606 26500 ANCHOR ASSEMBLY, TYPE T	2 EA. 2 EA.
TOTALS CARRIED TO GENERAL SUMMARY	

PROFILE AND ALIGNMENT

THE PROPOSED PAVEMENT RESURFACING SHALL FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT.

TACK COAT

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.075 GALLONS PER SQUARE YARD FOR ESTIMATING PURPOSES ONLY.

TACK COAT FOR INTERMEDIATE COURSE

THE RATE OF APPLICATION OF THE 407 TACK COAT FOR INTERMEDIATE COURSE SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER, PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.05 GALLONS PER SQUARE YARD FOR ESTIMATING PURPOSES ONLY.

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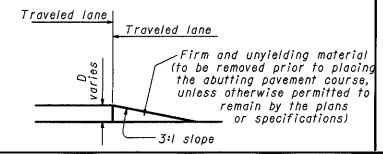
GENERAL NOTES

- I. It is intended that this drawing be used for treatment of drop-offs that develop during construction operations, and that are not otherwise provided for in the construction plans.

 Where the plans do not provide specific items for labor, equipment, or materials to implement the drop-off treatments specified hereon, they shall be included for payment in the lump sum bid for Item 614 Maintaining Traffic.
- 2. While the need for certain advisory signing is noted hereon, it is not intended that this be indicative of all signing that may be required to advise or warn motorists, and all requirements of the Ohio Manual of Uniform Traffic Control Devices (OMUTCD) must be fulfilled.
- 3. In urban or otherwise heavily developed areas where pedestrians and/or bicyclists may be present in significant numbers, additional signing and protective measures other than those shown hereon may be required.
- 4. The drop-off treatment selected for use at any given location shall be as appropriate for the <u>prevailing</u> conditions at the site.
- 5. Where concrete barrier is specified, it shall be in accordance with Standard Construction Drawing MC-9.2 and Item 622.
- 6. When drums are specified for a dropoff condition, a minimum number of four drums shall be used. Spacing shall be as indicated in the plans or as specified in the OMUTCD.
- 7. When OW-151 (Low Shoulder) signs or OW-171 (Uneven Lanes) and OWP-171 signs are required, they shall be placed 750' in advance of the condition, on all intersecting entrance ramps within the limits of the condition and immediately beyond all intersecting roadways within the limits of the condition. When the dropoff condition extends more than one-half mile, additional signs should be erected at intervals of one mile or less.
- 8. For locations, such as at ramps, lane shifts, lane closures, etc., where traffic is required to negotiate any difference in elevation between pavements, a 3:1 slope treatment similar to the Optional Wedge Treatment shall be provided.
- 9. Portable concrete barrier shall be placed on the same level as the traffic surface and shall not encroach on lane width(s) designated as the minimum required for traffic use. Where drums are used, and their presence would reduce traveled lane widths to less than 10', drums may be placed on the apposite level from that of traffic provided the dropoff depth does not exceed 5" and approval is granted by the Project Engineer.
- IO. Pavement Repairs (or similar work):
 - a. Lengths greater than 60 feet utilize appropriate treatment from Condition I.
 - b. Lengths of 60 feet or less repairs shall be effected in accordance with 255.08. Drums may be used as a separator adjacent to the traveled lane.

OPTIONAL WEDGE TREATMENT (MILLING OR RESURFACING)

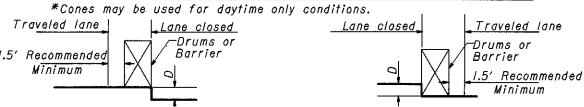
- This treatment may be used when permitted for Condition I only.
- 2. OW-171 and OWP-171 signs required.



CONDITION I DROPOFFS BETWEEN TRAVELED LANES

I. These treatments are to be used for resurfacing, pavement planing, excavation, etc. between or within traveled lanes.

D (In.)	Treatment
≤11/2	Erect OW-171 and OWP-171 signs.
>11/2-3	 Lane closure utilizing drums* as shown below OR 2) Optional Wedge Treatment
>3-5	Lane closure utilizing drums as shown below.
<i>></i> 5	Lane closure utilizing portable concrete barrier as shown below.

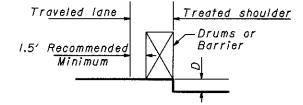


CONDITION II DROPOFFS WITHIN GRADED SHOULDER AREA

- I. The treatments indicated below are for use in conjunction with resurfacing, planing, or excavations within the graded shoulder area.
- 2. The graded shoulder area is that flat or gradually sloping area between the edge of a normally traveled lane and the more steeply sloping ditch foreslope or embankment slope. Its surface may be soil or turf, and/or it may be inclusive of a "treated" area (improved with aggregates, asphaltic materials, or concrete). For the purposes herein, its maximum width shall be considered to be twelve (12) feet.

D (In.)	Treatment
≤11/2	 If edgelines are present, no treatment necessary OR 2) Erect OW-I7I and OWP-I7I signs.
<i>\\\</i> 2−5	 If min. lane width requirements can be met, maintain lanes utilizing drums as shown below OR 2) If min. lane width requirements cannot be met, close adjacent lane utilizing drums OR 3) Optional Shoulder Treatment.
>5-12 Daylight only	If min. lane wid‡h requirements can be met, maintain lanes utilizing drums as shown below.
>5-24	I) If min. lane width requirements can be met, maintain lanes utilizing portable concrete barrier as shown below. OR 2) If min. lane width requirements cannot be met, close adjacent lane utilizing drums.
>24	Lane closure utilizing portable concrete barrier as shown below.

^{*}Minimum lane widths shall be 10' unless otherwise specified in the plans.



OPTIONAL SHOULDER TREATMENT

- I. This treatment may not be used within a bituminous shoulder where a hot longitudinal joint per 401.15 is required.
- 2. OW-151 signs required.



KNO-715-0.00 COS-715-0.00 COS-206-5.98

CONDITION III

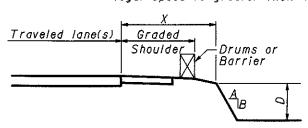
DROPOFFS BEYOND GRADED SHOULDER OR BACK OF CURB

- I. See Note 2 under Condition II.
- 2. Use Chart A or B below, as applicable.

CHART A

USE FOR: I. Uncurbed Facilities.

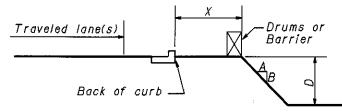
- 2. Curbed Facilities, where:
 - a. Curbs are less than 6" in height.
 - b. Curbs are 6" or greater in height and the legal speed is greater than 40 mph.



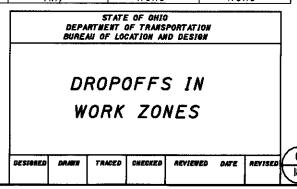
X	D	4.70	Treatment F	Required
(Êt.)	(In.)	A/B	Day	Night
0-4	Any	Any	(a)	(a)
4-30	Any	3:/ or Flatter	None	None
4-12	₹3	Steeper than 3:/	None	None
4-12		Steeper than 3:/	Drums	Drums
4-12	>12	Steeper than 3:/	Drums	Barrier
>12-20	≤12	Steeper than 3:/	None	None
>12-20	>12- <u>≤</u> 24	Steeper than 3:/	Drums	Drums
>12-20	>24	Steeper than 3:1	Drums	Barrier
20-30	≤24	Steeper than 3:/	None	Drums
20-30	>24	Steeper than 3:/	Drums	Barrier
>30	Any	Any	None	None
(a) U	se trea	tment specified un	der Condition	11.

CHART B

USE FOR: Curbed facilities, where the curb is 6" or greater in height and the legal speed is 40 mph or less.



X	D	A/R	Treatment I	Required
(Ft.)	(In.)	A/ D	Day	Night
0-10	<12	Any	None	Drums
0-10	>12	Αηγ	Drums	Drums
>10	Any	Any	None	None



RPM General Notes

Materials Supplied by The Department

All materials are to be Contractor furnished. except that the Department shall supply RPM materials in the quantities shown herein to the Contractor. Pay items for the Department supplied materials shall be indicated as "Installation Only". The quantity and type of Department supplied materials are shown on sheets II, 12, 13 & 14 of this plan.

The Contractor shallpick up the department supplied RPM materials at the direction of the Project Engineer.

For some projects having quantities of less than 20 RPMs, the contractor may pick up RPM materials at the District Offices. Quantities over 20 RPMs will be picked up at the Recycler's Warehouse or as arranged with the District. The Contractor shallpick up Department supplied RPM materials at the specified location(s) for transport to the work site or to the Contractor's storage facility. The Recycled Raised Pavement Marker (RPM) Authorization Form is to be signed by the District Construction Engineer prior to pick up of the RPMs. The Contractor shall notify the District and / or the parties listed on the authorization form in writing at least five (5) calendar days prior to pick up of the department supplied materials. The contractor shall store the RPMs without damage or contamination with foreign matter. A deduction in the amount of the actual cost to the Department shall be made for materials damaged by the Contractor or for castings received by the Contractor which were not installed and were not returned to the Department.

Return of Non-performed Raised Pavement Marker Materials Supplied by the Department

Raised Pavement Marker Materials Supplied by the Department, that are non-performed shall be carefully repacked or packed in the boxes in the same style and quantity as originally received from the Department. Casting styles shall not be mixed within any one container. The Contractor shall clearly mark on the outside of each container, the color of the prismatic retro-reflector, the style of casting. Boxes shall be placed on skids or pallets in the same style (Low Profile or Conventional, reflectorised or non reflectorised) and no more than 420 RPMs (or 21 Boxes) on one skid.

Only use the boxes supplied by the Raised Pavement Marker Recycler. Boxes must be marked with the recycler's part or catalog number and the project number. The recycler's catalog or part numbers may be obtained from the Office of Traffic Engineering in Columbus, Ohio or from the recycler. Boxes not marked with the proper recycler's catalog or part numbers, and the department's project number will not be accepted at the recycler's warehouse Non Performed Materials will be returned to the location as specified by the District Construction Engineer within 30 Days of the completion of the project.

The above work including all labor, equipment and material needed to perform the work, shall be considered incidental to the respective pay item.

If the department has to repackage the RPMs correctly, the Contractor will be assessed the actual cost for repackaging the Materials by the Department's Forces.

Loading of Materials Supplied by the Department at the Recycler's Warehouse

Trucks shall have a loading height of 48 inches and be able to back up flush to the loading dock.

Trucks shall not have any obstructions or protrusions that prevent the loading by a standard forklift or lift truck.

Semi trucks or 20 foot commercial trucks are the most appropriate trucks for loads in excess of 4 pallets (one pallet = 21 boxes = 2000 LBS).

Stake body trucks are appropriate to load less than 4 pallets, provided the truck is rated for the load and the load can be safely secured for transport by chaining or strapping down as needed.

Pickup trucks are appropriate for loads of approximately one pallet, provided the pickup truck is rated for the load and the load can be safely secured for transport.

Dump trucks, tilt bed trucks, and non commercial moving vans will not be loaded by the recyclers warehouse.

The warehouse supervisor will refuse to load any truck that is unsafe to load or unsuitable for the load being placed on the truck.

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DOT 1920

	(I) BRID	GE LENG	STH X P	AVEMENT WIDTH		(I) AVERA	GE PA	/EMEN	NT WIDTH		PAV	EMENT DA	TΑ									
										:		PR	OPOSI	ED PAVEME	NT		254	614	617	617		
	_				L	_ENGTH		T				407	4	48 ASPHAL	T CO	NCRETE	PAVEMENT	TEMPORARY	0011010750	5110111 555		
	LOCATION	ROUTE	co.	LOG POINT TO LOG POINT	MILES	LIN. FT.	WP FEET	P I C A L	EXISTING TYPE PAVEMENT	PAVEMENT AREA	TACK COAT © 0.075 gai./s.y.	e 0.05 gal.∕s.y.	THICK	INTERMEDIATE COURSE, TYPE 2, PG 64-22	тніск	PG 64-22	PLANING, BITUMINOUS, AS PER PLAN	CENTER LINE, CLASS II	AS PER PLAN 2'X3.5" AVER. THICKNESS	PREPARATION		LIN. FT.
╂				:			ļ			SQ. YDS.	GALS.	GALS.	INCHES	CU.YDS.	INCHES	CU.YDS.		MILE	CU.YDS.	SQ.YDS.		
	I S	R 715	KNO	0.00-4.26	4,26	22,493	18		405 OR 406	44,986	3374	2249	1.75	2186.8	1.25	1562.0		4.26	972	9997		22,493
П				AT FOR LONGIT							156											
Ш	TC	OTALS T	TO GEN	ERAL SUMMARY	<u>LOCATI</u>	ION I																
╌							<u> </u>				3530	2249		2187		1562		4.26	972	9997		
	2 <u>s</u>	R 715	cos	0.00-2.54	2.54	13,411	18		405 OR 406	26,822	2012	1341	1.75	1303.8	1.25	931.3		2.54	579	5960		13,411
Н	E.	X I KA I		DAT FOR LONG		_ JOIN!	<u> </u>				93	(7.0)		(3.1.3)		(00.7)		4				
H	ΤΛ	TAIS		OGE DEDUCTION ERAL SUMMARY		ON 2					(48) 2057	(32) 1309		(31.3) 1273		(22.3) 909.0		0.54	(4) 565	(142) 5818		
11		R 715	cos	3.19-4.80	1.61	8501	18	 	405 OR 406	17002 `	1275	850	1.75		1.25	590.3		2.54	367	3778		8501
H				4.80-5.14	0.34	1,795	22	_	404	4,388	329	219	1.75	L	1.25	152.4		-	78	798		1,795
Ħ				5.14-6.16	1.02	5,386	18	T	405 OR 406	10,772	808	539	1.75	523.6	1.25	374.0		5.02	233	2394		5,386
	S	R 715		6.16-6.55	0.39	2059	22 #		404	5,033	377	252	1.75	244.6	1.25	174.8	#5033	1	40	444		2059
Н	S	R 715	cos	6.55-8.21	1.66	8765	20		404	19,478	1461	974	1.75	946.8	1.25	676.3			379	3896		8765
	EX	TRA TA		AT FOR LONGIT	UDINAL	JOINT					188											
				E DEDUCTIONS							(144)	(96)		(93.9)		(67.1)			(37)	(378)		
11				ERAL SUMMARY				ļ.,			4294	2738		2661		1901	5033	5.02	1060	10932		
		R 206		5.98-6.50	0.52	2,746	20		404	6,102	458	305	1.75		1.25	211.9		0.65	119	1220		2,746
		R 206		6.50-6.63	0.13	686	18		405 OR 406	1,372	103	69	1.75	66.7	1.25	47.6		0.00	30	305		686
	ĽΧ	ITA IA		AT FOR LONGIT E DEDUCTIONS	ODINAL	JOIN I	+				(46)	(31)		(29.9)		(0) 4			1173	(1777)	<u> </u>	
	TO	TALCI		ERAL SUMMARY	LOCATIO	ON 4		-			539	343		333		(21.4) 238		0.65	(13) 136	(137) 1388		

		A	2 50' E			E	XTR	A A	REAS	S									CALCULATED
<u> </u>	c	₩	7 50' N																
	INTERSECTIONS		Φ '	1															
				INI	ERSECT	TONS		40	07	44	8 ASPHALT	r cond	RETE						
ROUTE	LOG POINT TO LOG POINT	SIDE	DESCRIPTION	A IN FEET	B IN FEET	C IN FEET	AREA IN	TACK COAT @ 0.075 gal./s.y.	TACK COAT FOR INTERMEDIATE COURSE © 0.05 gal./s.y.		INTERMEDIATE COURSE, TYPE 2, PG 64-22 (DRIVEWAYS)	THICK	PG 64-22 (DRIVEWAYS)	EXISTING SURFACE	202 WEARING COURSE REMOVED	304 AGGREGATE BASE	INCLUDUNG EMBANKMENT CONSTRUCTION	408 PRIME COAT © 0.40 gal./s.y.	or description
J SR 715	KNO	LT	© US 36				SQ.YD.	GAL.	GAL.	INCH	CU.YD.	INCH	CU.YD.		SQ.YD.	CU.YD.	CU.YD.	GAL.	
		Ę.	US 36													<u> </u>		:	
		RT	CO. RD. 036	44	16	64	196	15	10	1.75	9.5	1.25	6.8	asphalt	196				
		LT	TWP. RD. 208	15	15	43	48		2	1.75	2.3	1.25	1.7	gravel				19.2	·····
		LT LT	TWP. RD. 209 TWP. RD. 616	43	18	120	330		16	1.75	16	1.25	11.4	gravel	. <u></u>			132	
		RT	TWP. RD. 201	66	16	150	609		30	1.75	29.6	1.25	21.1	gravel	***************************************			243.6	
		LT	TWP. RD. 2II	25	16	55	99		5	1.75	4.8	1.25	3.4	gravel				39.6	
		Ę.	TWP. RD. 203 LT. TWP. RD. 203 RT.	30	16	104 60	200		10	1.75	9.7	1.25	6.9	gravel		+		80	
		LT	TWP. RD. 202	45 40	16 12	60	190		10 8	1.75	9.2 7.8	1.25	6.6 5.6	gravel gravel				76 64	
			1				,,,,,			1110	110	7.20	3.0	J	· ·	 			
TOTALS LOCA	TION CARRIED TO GEN	ERAL SUM	MARY					15	91		88.9		63.5		196	60	60	654	
•																			
							14								1.0 50/(11)				
2 SR 715	cos		TWP. RD. 366	22	18	90	132		7	1.75	6.4	1.25	4.6	gravel	····			52.8	
			TWP. RD. 423	27	16	70	129		6	1.75	6.3	1.25	4.5	gravel				51.6	·
			CO. RD. 368 ST. RD. 206	35 35	20 18	67 70	169	13	8 9	1.75	8.2	1.25	5.9 5.9	asphalt asphalt	169 171				
		<u> </u>	51. NB. 200	1 33	10			1,5		1.13		7,25	3.3	доргіаті	111				
TOTALS LOCA	TION 2 CARRIED TO GEN	IERAL SUN	MARY					26	30		29.2		20.9		340	36	36	104	
									-			<u> </u>							
3 SR 715	cos	RT	ST. RD. 206	57	20	108	405	30	20	1.75	19.7	1.25	14.1	asphalt	405				
0 0.0 110	003	LT	CO. RD. 20	48	18	63	216	30	II	1.75	10.5	1.25	7.5	gravel	403			86.4	
															,				
			e US 36				767	28	10	1 75	17.8	1.05	10.7			<u> </u>			
			© US 36 ①				367	20	18	1.75	11.0	1.25	12.7	asphalt					
TOTALS LOCA	TION 3 CARRIED TO GEN	IERAL SUM	MARY					58	49	<u> </u>	48		34.3		405	6	6	86	
																			KN0-715-0.00
4 SR 206	cos		TWP. RD. 518	26	18	50	98	7	5	1.75	4.8	1.25	-	asphalt	98				
			TWP. RD. 487 TWP. RD. 517	12	18 12	75 25	227 25	2	11	1.75	. .2	1.25		gravel asphalt	25			90.8	<u>-</u> -
			TWP, RD, 516	70	32	110	552	41	28	1.75	26.8	1.25	-	asphalt	110				<u>\$</u>
																			_
TOTALS LOCAT	 TION 4 CARRIED TO GEN	EDAL CIN	MAARY	<u> </u>				EA	AE		43 0		71.4		077			A .	
TOTALS LUCA	TION 4 CARRIED TO GEN	LRAL SUM	IIWAN I					50	45		43.9		31.4		233	4	4	91	
						<u></u>													<u> </u>
				<u></u>			<u>. </u>												

LENGTH OF APPROACH SLAB IN FEET	BRIDGE LENGTH IN FEET	LENGTH OF APPROACH SLAB IN FEET	ACTION
	COS-715-1.82 — — — — 269 COS-715-4.13 — — — 255 COS-715-4.95 — — — 435 COS-715-6.44 — — — 60 COS-206-6.04 — — 268	— - 25 — — - 25 — — —	SKIP & BUTT JOINT@APPROACH SKIP & BUTT JOINT@APPROACH SKIP & BUTT JOINT@APPROACH PAVE OVER SKIP & BUTT JOINT@APPROACH

BRIDGE DECK DATA

			1	1	700	DEGUCT ACEA	11	407	T	440 450			 	DEDUCT QUANT		,,,		
70U					202 WEARING	DEDUCT AREA	TACK	TACK COAT FOR		448 ASPHA		SURFACE	TACK	TACK COAT FOR		448 ASPHA INTERMEDIATE	ET CON	SU
A T I O	COUNTY, ROUTE, BRIDGE NO.	LENGTH (BRIDGE LIMITS)	WIDTH	BRIDGE DECK AREA	COURSE REMOVED DEPTH VAR."	PAVEMENT WIDTH X BRIDGE LENGTH INCUDING APPROACH SLABS = SQ. YDS.	© 0.075 GAL./S.Y.	INTERMEDIATE COURSE @ 0.05 GAL./S.Y.	THICK	COURSE, TYPE 2, PG 64-22	THICK	COURSE, TYPE I, PG 64-22	}	INTERMEDIATE COURSE @ 0.05 GAL./S.Y.	THICK	COURSE, TYPE 2, PG 64-22	THICK	CC T' PG
N		LIN.FT.	LIN.FT	SQ.YDS.	. SQ.YDS.		GAL.	GAL.	INCH	CU.YDS.	INCH	CU.YDS.	GAL.	GAL.	INCH	CU.YDS.	INCH	Cı
2	005 715 1 80	269	26			18 X (269 + 50) /9 = 638	-											-
SK (15)	COS-715-1.82	203	20			18 × (263 + 30) /3 - 636			1.75		1.25		48	32	1.75	31.3	1.25	2
																		1
						·												
3						•		*.				:			·			+
SR715	COS-715-4.13	255	26			18 X (255 + 50) /9 = 610			1.75		1.25		46	31	1.75	29.9	1.25	2
SR715	COS-715-4.95	435	26			22 X (435 + 50) /9 = 1186			1.75		1.25		89	59	1.75	57.6	1.25	
SR715	COS-715-6.44	60	26	173.33		18 X (60) /9 = 120	13	9	1.75	8.5	1.25	6.1	9	6	1.75	5.9	1.25	
4							i i			9								_
SR206	COS-206-6.04	268	26			18 X (268 + 40) /9 = 616			1.75		1.25		46	31	1.75	29.9	1.25	2
						MARY LOCATION 3	13	9		8.5		6.1						
						CRETE SHEET 8 LOCATION CRETE SHEET 8 LOCATION 2							48	32		31.3	:	2
						CRETE SHEET 8 LOCATION 3							144	96		93.9		6
		TOT	ALS T	O ASPE	HALT CON	CRETE SHEET 8 LOCATION 4	1						46	31		29.9	[2

CALC. BY SAB DATE 2-15-99 CHKO. BY DATE

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3-10-99

K71500 ... TRIM

LOCATION SUB-SUMMARY

DETAIL	
}	TAPERED ACCELERATION LANE
2	DECELERATION LANE
3	MULTILANE DIVIDED/ CONTROLLED ACCESS

DETAIL	
4	4 LANE DIVIDED TO 2 LANE TRANSITION
s	4 LANE UNDIVIDED TO 2 LANE TRANSITION
6	ONE LANE BRIDGE
7	STOP APPROACH
8	THRU APPROACH
9	TWO WAY LEFT TURN LANE

DETAIL	
Ю	APPROACH W/LT. TURN LANE
11	HORIZONTAL CURVE 40' (NOTE 2)
12	HORIZONTAL CURVE ALT. (NOTE 3)
GAP	CENTERLINE AT 80' TYP.

		LO	CATION		D			TEM QUA	NTITIES		PRISA	MATIC RE	TRO-REF	LECTOR	COLORS		
CA			S.L.M MILES	e .	H E A	***************************************	INS		ON ONLY	- PRISMATIC	ONE-	·····	<u> </u>	O-WAY		REMARKS	 \&
N	COUNTY	ROUTE	FROM	то	Ī	RPM	RPM	RPM CASTING	PRISMATIC RETRO- REFLECTOR	RETRO- REFLECTOR	WHITE	YELLOW	VELLAW/	WHITE/	YELLOW/ RED		
	KNO	SR 715	0.00	0.16	7		38				16		22			STOP @ US 36 CL @ 40'	
	KNO	SR 715	0.16	0.32	ANALAS MACANAS MACANAS MACANAS		21						21			PC 0.16 PT 0.32 L = 845' DEG 7	
	KNO	SR 715	0.32	0.59	12		46						46			PC 0.42 PT 0.50 L = 422' DEG 12	1I
	KNO	SR 715	0.59	1.30	GAP		47						47				
	KNO	SR 715	1.30	1.51	12		38						38			PC 1.39 PT 1.46 L = 370' DEG 18	3
	KNO	SR 715	1.51	1.63	****		16						16			PC 1.51PT 1.63 L = 634' DEG 6	귀중
	KNO	SR 715	1.63	1.93	GAP		20		,				20				
1	KNO	SR 715	1.93	1.96			4						4			PC 1.93 PT 1.96 L = 158' DEG 8	
	KNQ	SR 715	1.96	2.10	12		27						27			PC 1.96 PT 2.02 L = 317' DEG 18	
	KNO	SR 715	2.10	2.12	11	****	3						3			PC 2.10 PT 2.12 L = 106' DEG 9	
	KNO	SR 715	2.12	2.29	12	***************************************	23						23			PC 2.16 PT 2.20 L = 211' DEG 20	
	KNO	SR 715	2.29	2,32		***************************************	4	*************************************	***************************************				4			PC 2.29 PT 2.32 L = 158' DEG 6	
	KNO	SR 715	2.32	2.65	GAP	~~~~	22					***************************************	22				
ļ	KNO	SR 715	2.65	2.68	11	***************************************	4		•••••				4			PC 2.65 PT 2.68 L = 158' DEG 9	
	KNO	SR 715	2,68	2.76	GAP	***************************************	5						5				
	KNO	SR 715	2.76	2.98	12		36		***************************************				36			PC 2.85 PT 2.89 L = 211' DEG 15	
	KNO	SR 715	2.98	3.00	GAP		1	•••••					l				Andreas vanas
	KNO	SR 715	3.00	3.03	11	***************************************	4		·				4			PC 3.00 PT 3.03 L = 158' DEG 9	
	KNO	SR 715	3.03	3.16	12		21						21			PC 3.04 PT 3.07 L = 158' DEG 26	
	KNO	SR 715	3.16	3.45	GAP		19					***************************************	19				
	KNO	SR 715	3.45	3.48		***************************************	4						4			PC 3.45 PT 3.48 L = 158' DEG 6	188
-	KNO	SR 715	3,48	3.63	12		30			6)>0%444444		***************************************	30			PC 3.51 PT 3.59 L = 422' DEG 13	
-	KNO	SR 715	3.63	3.74	12	•••••	20		***************************************				20			PC 3.63 PT 3.67 L = 211' DEG 13	715-0.0
	KNO	SR 715	3.74	3.79			7						7			PC 3.74 PT 3.79 L = 264' DEG 9	
	KNO	SR 715	3.79	3.95	12		31						31			PC 3.83 PT 3.90 L = 370' DEG 16	- X O (
TC	TALS LOC	ATION IC	NRRIED TO S	HEET 14		***************************************	491		***************************************				·····				
West Name In page of the contract of the contr					W. 000000000000000000000000000000000000				· •			***************************************		отполителения под	nnesennesiddinen chennylanssyrresseridiserrennes		- \ \(\mathbb{B}\)

CALC. BY SAB DATE 2-15-99 CHKD. BY DATE

DETAIL

TAPERED ACCELERATION LANE

DECELERATION LANE

MULTILANE DIVIDED/ CONTROLLED ACCESS

LOCATION SUB-SUMMARY

4
5
6
7
8

DETAIL	
4	4 LANE DIVIDED TO 2 LANE TRANSITION
5	4 LANE UNDIVIDED TO 2 LANE TRANSITION
6	ONE LANE BRIDGE
Ţ	STOP APPROACH
8	THRU APPROACH
9	TWO WAY LEFT TURN LANE

DETAIL	
10	APPROACH W/LT. TURN LANE
11	HORIZONTAL CURVE 40' (NOTE 2)
2	HORIZONTAL CURVE ALT. (HOTE 3)
GAP	CENTERLINE AT 80'TYP.

		LO	CATION		D		IT	TEM QUA	NTITIES	-	PRISM	NATIC RE	ETRO-REF	LECTOR	COLORS		
C A T			S.L.N MILE	л. <	- E		INS		ON ONLY	PRISMATIC		-WAY	T ' T V	VO-WAY		REMARKS	
Ž ON	COUNTY	ROUTE	FROM	TO	A I	RPM	RPM	RPM CASTING	PRISMATIC RETRO- REFLECTOR	RETRO- REFLECTOR	WHITE	YELLOW	YELLOW/ YELLOW	WHITE/ RED	YELLOW/ RED		
	KNO	SR 715	3.95	4.01	11		8						8			PC 3.95 PT 4.01L = 317' DEG 8	*********
	KNO	SR 715	4.0	4.05	GAP		3						3				*********
	KNO	SR 715	4.05	4.09	11		5						5			PC 4.05 PT 4.09 L = 211 DEG: 7	
	KNO	SR 715	4.09	4.19	GAP		7						7				**********
	KNO	SR 715	4.19	4.24	11		7						7			PC 4.19 PT 4.24 L = 264' DEG 7	
	KNO	SR 715	4.24	4.26	GAP		-										
 OT	ALS LOC	ATION ICA	RRIED TO S	L SHEET 14							·	·					0000000000
	~ ~ ~		A AA	0.00			***************************************										**********
	COS	SR 715	0.00	0.06	12		12		***************************************				12			PC 0.00 PT 0.03 L = I58' DEG II	
∳	COS	SR 715	0.06	0.17	I2 GAP		17 11						17 11			PC 0.06 PT 0.08 L = 106' DEG 11	
-	COS COS	SR 715 SR 715	0.17 0.34	0.34	JAE		19						19			PC 0.34 PT 0.48 L = 739' DEG 7	
	COS	SR 715	0.48	0.58	GAP		7						7	 		10 0.34 F1 0.40 E - 133 BE8 1	
	COS	SR 715	0.58	0.62	11		1						1)	ļ		PC 0.58 PT 0.62 L = 422' DEG 7	annonnertan
	COS	SR 715	0.62	2.54	GAP		127	***************************************					127			10 0.30 11 0.02 L ~ 422 DL0 1	
T	N C I A C	ATION 2 C	ARRIED TO S	L Sufet 14			204		•••••••••••••			***************************************					00000000
ĺ	~ ~	7 : 2 2 3 3 4	*11 % \$ & L & J	# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	000000000000000000000000000000000000000	***************************************	cocconomiconomiconomico		***************************************	•••••••••••••••••••••••••••••••••••••••		***************************************			***************************************		000000000
-	cos	SR 715	3.19	3.32	12		23						23		adantatorio (1880 il 1880 il 1	PC 3.19 PT 3.23 L = 211' DEG 12	consissor
	cos	SR 715	3.32	3.35	44444		4						4			PC 3.32 PT 3.35 L = I58' DEG 9	
	cos	SR 715	3,35	3.49	12		23						23			PC 3.37 PT 3.40 L = 158' DEG 13	
	cos	SR 715	3.49	3.87	GAP		25		***************************************				25		***************************************		
 T/	ALS LOCA	ATION 3 CA	ARRIED TO S	L SHEET 14			75		***************************************		300000000000000000000000000000000000000				•••••		******
******	70000000000000000000000000000000000000										•			***************************************			0000000000
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3-10-99

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CALC. BY SAB DATE 2-15-99 CHKD. BY DATE

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3-10-99

K7150003TRM

LOCATION SUB-SUMMARY

DETAIL	
1	TAPERED ACCELERATION LANE
2	DECELERATION LANE
3	MULTILANE DIVIDED/ CONTROLLED ACCESS

4	4 LANE DIVIDED TO 2 LANE TRANSITION
5	4 LANE UNDIVIDED TO 2 LANE TRANSITION
6	ONE LANE BRIDGE
7	STOP APPROACH
8	THRU APPROACH
9	TWO WAY LEFT TURN LANE

DETAI	
Ю	APPROACH W/LT. TURN LANE
11	HORIZONTAL CURVE 40' (NOTE 2)
12	HORIZONTAL CURVE ALT. (NOTE 3)
GAP	CENTERLINE AT 80' TYP.

CC		LO	CATION		0		17	EM QUA	NTITIES		PRISA	MATIC RE	TRO-REF	LECTOR	COLORS		
CA			S.L.M MILES	l.		***************************************	INS		ON ONLY	PRISMATIC		-WAY	·	VO-WAY		- REMARKS	1
I ON	COUNTY	ROUTE	FROM	то	I A	RPM	RPM	RPM CASTING	PRISMATIC RETRO- REFLECTOR	RETRO- REFLECTOR			VTIIONI	WHITE			
3	COS	SR 715	3.87	4.15	12		50	and distribution of the seather than the	**************************************				50			PC 3.96 PT 4.06 L = 528' DEG	{}
3	cos	SR 715	4.15	4.25	12		22						22			PC 4.18 PT 4.20 L = 211' DEG 14	
3	COS	SR 715	4.25	4.36	12		23						23			PC 4.25 PT 4.27 L = 211' DEG 12	~
3	COS	SR 715	4.36	4.82	GAP		30			***************************************			30				
3	cos	SR 715	4.82	5.02	12		29						29	†	<u> </u>	PC 4.91 PT 4.93 L = 106' DEG 28	-
3	cos	SR 715	5.02	5.18	1 12		28				 		28			PC 5.04 PT 5.09 L = 264' DEG 13	
3	COS	SR 715	5.18	5.33	GAP		10	•••	***************************************	-	*		10				***************************************
Š	cos	SR 715	5,33	5.63	12		56	.,					56	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************	PC 5.42 PT 5.54 L = 634' DEG I5	-
3	cos	SR 715	5.63	5.76	GAP		9	***************************************				<u> </u>	9				
3	cos	SR 715	5.76	5.90	11		18						18	***************************************		PC 5.76 PT 5.90 L = 739' DEG 9	
3	cos	SR 715	5.90	6.12	GAP	***************************************	15						15	*	•		-
3	cos	SR 715	6.12	6.36	12	***************************************	40	***************************************				•	40			PC 6.21 PT 6.27 L = 317' DEG 12	1012 C
3	cos	SR 715	6.36	6.41	GAP		3					•	3				***************************************
3	cos	SR 715	6.41	6.67	12		45		***************************************				45			PC 6.50 PT 6.58 L = 422' DEG 25	1
3	COS	SR 715	6.67	6.88	GAP		14		***************************************				14	*************************************			
3	COS	SR 715	6.88	7.02	riman Usasa		18						18			PC 6.88 PT 7.02 L = 739' DEG 7	
3	cos	SR 715	7.02	7.25	GAP		15						15				~
3	cos	SR 715	7.25	7.31	11		8						8			PC 7.25 PT 7.31L = 317' DEG 8	***************************************
3	cos	SR 715	7.31	7.76	GAP		30						30				
3	cos	SR 715	7.76	7.83	***		9						9			PC 7.76 PT 7.83 L = 370' DEG 8	
3	cos	SR 715	7.83	8.05	GAP		15						15				18
3	COS	SR 715	8.05	8.21	7		39				26		13		oleon a soud-sid-sid-sid-sid-sid-sid-sid-sid-sid-si	STOP @ US 36 INCLUDES EXTRA AREA , CENTER LINE & EDGE LIN	- 18-0.00 - 18-0.00
TO	TALS LOC	L CATION 3 C	ARRIED TO	SHEET 14			526	***************************************	**** ********************************		•		WWW.		***************************************		1
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CALC. BY SAB DATE 2-15-99 CHKD. BY DATE

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LOCATION SUB-SUMMARY

DETAIL	
1	TAPERED ACCELERATION LANE
2	DECELERATION LANE
3	MULTILANE DIVIDED/ CONTROLLED ACCESS

DETAIL	
4	4 LANE DIVIDED TO 2 LAME TRANSITION
5	4 LANE UNDIVIDED TO 2 LANE TRANSITION
6	ONE LANE BRIDGE
7	STOP APPROACH
8	THRU APPROACH
9	TWO WAY LEFT TURN LANE

DETAIL	
Ю	APPROACH W/LT. TURN LAME
11	HORIZONTAL CURVE 40' (NOTE 2)
12	HORIZONTAL CURVE ALT. (NOTE 3)
GAP	CENTERLINE AT 80'TYP.

Č	(analako)	L0(CATION		D	HARRIED AAAAAA	1	TEM QUA	NTITIES		 PRISA	MATIC RE	ETRO-REF	LECTOR	COLORS		onesia cocco
Ĉ A		***************************************	S.L.N MILE	<u>/.</u>	- E		INS		ION ONLY	 		-WAY	T	/O-WAY		REMARKS	
Č	COUNTY	ROUTE	FROM	<u>></u> TO		RPM	RPM	RPM CASTING	PRISMATIC RETRO- REFLECTOR	RFTRO-			1		YELLOW/ RED	1 V boom f V C C V S S S V Voor	
		and 100 and 100 and 100							1 2 km² b b b b b c 2 6 6 5 3				IELLON	KED	neu		***************************************
*****	COS	SR 206	5.98	6.26	12		52					52	***************************************			PC 6.06 PT 6.17 L = 581' DEG 13	
	COS	SR 206	6.26	6.42	12		27					27				PC 6.29 PT 6.33 L = 211' DEG 26	******
*****	COS COS	SR 206 SR 206	6.42 6.49	6.49 6.63	GAP I2		5 25					5 25				PC 6.58 PT 6.63 L = 264' DEG 12	*******
000000	TOT	ALS LOCAT	ION 4				109					***************************************	•				***************************************
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						06514046140145140145140004400000440000044040004404	464840000000000000000000000000000000000										
****	LOCATI	ION I TOTAL	FROM SHE	et II			491										
~~~	***************************************		. FROM SHE				31										
.0	CATION I	TOTAL CAR	RIED TO GE	ENERAL SUN	MARY		522										
NOVO:	LOCATION	DN 2 TOTAL	L FROM SHE	 ET			204										**********
)(	CATION 2	TOTAL CAI	RRIED TO G	ENERAL SUI	MMARY	\$6666444444444444444444444444444444444	204										Hhrimminutan
	L	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	L FROM SHE				75	•					***************************************	***************************************			**************************************
****	······································	<del>,</del>	L FROM SHE				526										hantitahan
)(		nd the title the contract of t	RRIED TO G	***************************************	uwary .		601										
AAKAR					OCCUPANT OF THE PROPERTY OF TH	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					OC A CORP GALLOUIS GA	***************************************	***************************************				
****	LOCAT	TION 4 TOT	AL THIS SH	Services and a	••••		109			000000000000000000000000000000000000000							
)(	CATION 4	TOTAL CAI	RRIED TO G	ENERAL SUI	MMARY T	200000000000000000000000000000000000000	109	*************************				***************************************			***************************************		
			COTTO COTTO DE PERO DE LA COTTO DE PORTO DE LA COTTO DE LA COT	and the second s		(CMT) / A) / Calanananananananananananananananan		Anne e sandandario 10000000 (Filmente Sandandario 1000000000000000000000000000000000000	***************************************					***************************************			***********
																	•••••

SUMMAR

SUB.

/EDGE

CENTER

## CENTER LINE SUB-SUMMARY

QUANTITIES INCLUDE CL AROUND OUTSIDE OF PAINTED ISLAND

10 C			S.L.M. CENTER LINES PARTICIPATION TYPE TOTAL CENTER												
A T I	co.	ROUTE	FROM	ТО	TOTAL MILES	EQUIVALENT SOLID LINE	IRG	FG	RSG	NON FED	CENTER LINE	REMARKS			
N	N		1 110101							STATE					
1	KNO	715	0.00	4.26	*4.26	7.986					4.26	S.L.M. 0.00 TO COSHOCTON COUNTY			
2	cos	715	0.00	2.54	*2.54	2.540					2,54	S.L.M. 0.00 TO S.L.M. 2.54 @ S.R. 206			
3	cos	715	3.19	8.21	*5.02	11.391					5.02	S.L.M. 3.19 TO S.L.M. 8.21			
4	COS	206	5.98	6.63	*0.65	1.310					0.65	S.L.M. 5.98 @ S.R. 206 TO S.L.M. 6.63 @ S.R. 715			
*	TOTAL	O GENERAL	SUMMARY												
				, , , , , , , , , , , , , , , , , , , ,											

## EDGE LINE SUB-SUMMARY

	000			S.L	. M .	WHITE EDGE LINE QU. YELLOW EDGE LINE QU. PARTICIPATION TYPE EDGE												
	A T	CO.	ROUTE			TOTAL			TOTAL						NON	LINE TOTAL	REMARKS	
	0 N			FROM	ТО	MILES	HIGHWAY	RAMP	MILES	HIGHWAY	RAMP	IRG	FG	RSG	FED STATE	MILES		
	ļ	KNO	715	0.00	4.26	*8.52	8.52									8.52	S.L.M. 0.00 TO COSHOCTON COUNTY	
	2	cos	715	0.00	2.54	*5.08	5.08					:				5.08	S.L.M. 0.00 TO S.L.M. 2.54 @ S.R. 206	
	3	COS	715	3.19	8.21	*16.42	16.42									16.42	S.L.M. 3.19 TO S.L.M. 8.21	
	4	COS	206	5.98	6.63	*1.30	1.30									1.30	S.L.M. 5.98 @ S.R. 206 TO S.L.M. 6.63 @ S.R. 715	
		* TO	TAL TO GENE	RAL SUMN	IARY						1							
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	·																	
		<u> </u>																
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## PAVEMENT MARKING SUB-SUMMARY

L			.,				644	THERM	10PLA	STIC	<del></del>							
0			24 TRANS\ LINI	l" VERSE	STOP LINE	I2" CROSSWALK	8" CROSSWALK	WOF PAVI	RD ON EMENT			ANE ARRO	ws		TTED NES	8" CHANNEL		
T I	LOCATION	SIDE OR S.L.M.	WHITE	YELLOW	24" LIN.FT.	WHITE LIN.FT.	WHITE LIN.FT.	ONLY 72" 96' EACH EACH	72"	96"	LEFT EACH	RIGHT EACH	THRU EACH	WHITE	YELLOW LIN.FT.	LINE	REMARKS	
0 <b>N</b>																		
1	SR 715																	$\exists$
NO	e US 36	LT			26												PLACE AS DIRECTED BY ENGINEER	
	00 00 076	D*							<u> </u>								PLACE AS DIRECTED BY ENGINEER	
	CO.RD.036 TWP.RD.208	RT LT			<u>18</u> 17		,										PLACE AS DIRECTED BY ENGINEER PLACE AS DIRECTED BY ENGINEER	
	1W1.ND. 200	<u> </u>			J f												PLACE AS DIRECTED BY ENGINEER	
	TWP. RD. 209	LT			20												PLACE AS DIRECTED BY ENGINEER	
	TWP. RD. 616	LT 			18												PLACE AS DIRECTED BY ENGINEER	
	TWP. RD. 201 TWP. RD. 211	RT LT			<u>18</u> 18			<u> </u>									PLACE AS DIRECTED BY ENGINEER PLACE AS DIRECTED BY ENGINEER	
***************************************	TWP. RD. 203	Ę'			18								-				PLACE AS DIRECTED BY ENGINEER	
		_															TENDE NO BINESTED BY CHANGE	
	TWP. RD. 202	LT			14						· , · · ,						PLACE AS DIRECTED BY ENGINEER	
HALS	S LOCATION   CARRIED TO GEN	<u>IERAL SUMMARY</u> I			167								<u> </u>			<u> </u>		
2	SR 715	· · · · · · · · · · · · · · · · ·													-			
os	TWP. RD. 366	LT			23		,										PLACE AS DIRECTED BY ENGINEER	
	TWP. RD. 423	RT			18												PLACE AS DIRECTED BY ENGINEER	
	CO. RD. 368	) T			^7											<u> </u>		
· · · · · · · · · · · · · · · · · · ·	ST. RD. 206	LT I T			23 20	1			+ +				-				PLACE AS DIRECTED BY ENGINEER PLACE AS DIRECTED BY ENGINEER	
TALS	LOCATION 2 CARRIED TO GE		· · · · · · · · · · · · · · · · · · ·		84	:							<del>  -</del>		1		TAGE NO BINESTED BY ENGINEER	
3	SR 715																	
0S	ST. RD. 206	RT			22												PLACE AS DIRECTED BY ENGINEER	
	CO. RD. 20 US 36	LT RT			20 26								<u></u>				PLACE AS DIRECTED BY ENGINEER	
	@ US 36	RT			26	<u> </u>			++								PLACE AS DIRECTED BY ENGINEER PLACE AS DIRECTED BY ENGINEER	
TALS	S LOCATION 3 CARRIED TO GE	NERAL SUMMAR	Υ		94													
4	SR 206																	
os	TWP. RD. 518	RT RT			22 20												PLACE AS DIRECTED BY ENGINEER	
	TWP. RD. 487 TWP. RD. 517	RT			14							•					PLACE AS DIRECTED BY ENGINEER PLACE AS DIRECTED BY ENGINEER	
	TWP. RD. 516	RT			36				<del>                                     </del>								PLACE AS DIRECTED BY ENGINEER	
DTAL:	S LOCATION 4 CARRIED TO GE	NERAL SUMMAR	Υ		92													KNO-715-0
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													<del> </del>	,				<b></b>  ₹
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							-			<del>"  </del>						†·· ·		

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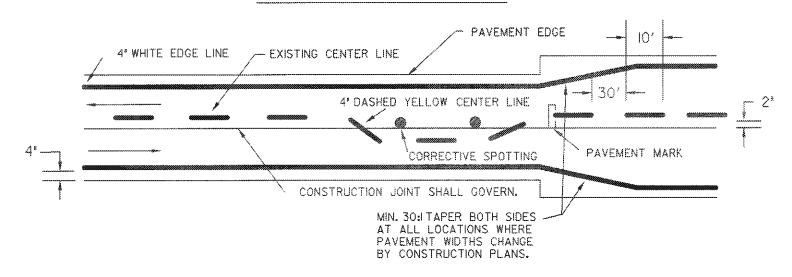
## MULTILANE DIVIDED & UNDIVIDED HIGHWAY MARKINGS PAVEMENT EDGE 4" WHITE EDGE LINE 2" LEFT OF CONSTRUCTION JOINT 4* DOUBLE SOLID YELLOW CENTER LINE MEDIAN DRAINAGE OR DEPRESSED MEDIAN 4" YELLOW EDGE LINE CONSTRUCTION JOINT NOTE : Edge line

#### FREEWAY & EXPRESSWAY MAINLINE MARKINGS

PAVED BERM

### PAVEMENT EDGE WHITE EDGE LINE 2" LEFT OF 4" LANE LINE CONSTRUCTION JOINT MEDIAN DIVIDER RAISED MEDIAN DEPRESSED MEDIAN 4" YELLOW EDGE LINE

#### TWO LANE MARKINGS



#### NOTES:

I. The distance from the pavement edge to the nearside edge of the edgeline may be increased with the approval of the engineer in order to maintain uniform lane width.

4" WHITE EDGE LINE

PAVEMENT EDGE

- 2. See TC-72.20 for entrance and exit ramp markings.
- 3. The cycle length for dashed lines shall be 40 feet plus or minus 6 inches. The minimum length of dash shall be sufficiently long to maintain a 3:Iratio between length of gap and length of dash.

Ohio Department of Transportation

transitions shallbe marked at the same time as the adjoining

edae lines.

Pavement Marking Typical Details

II-80 9-86 9-9i

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MARKING

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