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FEDERAL STATE PROJECT 22) OHIO PLAN NO. 316 The Standard 19 $\underline{89}$ Specifications of the State of Ohio, Department of Transportation, including changes and Supplemental Specifications listed in the plans and proposal shall govern these I hereby approve these plans and declare that the making of these improvements will require the NONE and that detours will be provided by State forces. The closing to traffic of the highways will not be required on Parts and provisions for the maintenance and safety of traffic District Deputy Director of Transportation Engineer of Bridges Engineer of Maintenance **^** DEPUTY DIRECTOR, OPERATIONS Assistant Deputy Director, Program Development Chief Engineer, Construction Chief Engineer, Design Assistant Director, Department of Transportation Director, Department of Transportation DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION DATE DIVISION ADMINISTRATOR SUPFLEMENTAL. STANDARD SPECIFICATIONS DRAWINGS 55-814 1-21-88 -87 ו-01 SS-924 12-14-88 6-13-69 10-1-87 4 29 88 10.4.89 86 4 29 88

ESTIMATED QUANTITIES:

SPECIFIC LOCATIONS AND USAGE OF ESTIMATED QUANTITIES SET UP ON THIS PLAN TO BE USED AS DIRECTED BY THE ENGINEER SHALL BE MADE A MATTER OF RECORD BY INCOR-PORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT. ESTIMATED QUANTITIES OF MATERIAL SHALL NOT BE ORDERED FOR DELIVERY TO THE PROJECT UNLESS AUTHORIZED BY THE ENGINEER.

TRAFFIC:

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TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. THE LENGTH OF RESTRICTED TRAFFIC ZONES SHALL BE KEPT TO A MINIMUM CONSISTENT WITH THE SPECIFICATION REQUIREMENTS FOR PROTECTION OF COMPLETED COURSES.

RAILROAD CROSSINGS:

THE NEW SURFACE COURSE SHALE BE VOINTED TO MEET THE RAIL GRADES-AS SPECIFIED

ALIGNMENT AND PROFILE:

THE WORK PROPOSED BY THIS PROJECT IS FOR THE RESURFAC-ING OF THE EXISTING PAVEMENT. THE ALIGNMENT OF THE EXISTING PAVEMENT WILL NOT BE CHANGED, AND THE PROFILE OF THE PROPOSED SURFACE WILL BE SIMILAR TO THAT OF THE EXISTING PAVEMENT EXCEPT THAT IT WILL BE RAISED AN AMOUNT EQUAL TO THE THICKNESS OF THE RESURFACING COURSE OR COURSES SPECIFIED IN THESE PLANS.

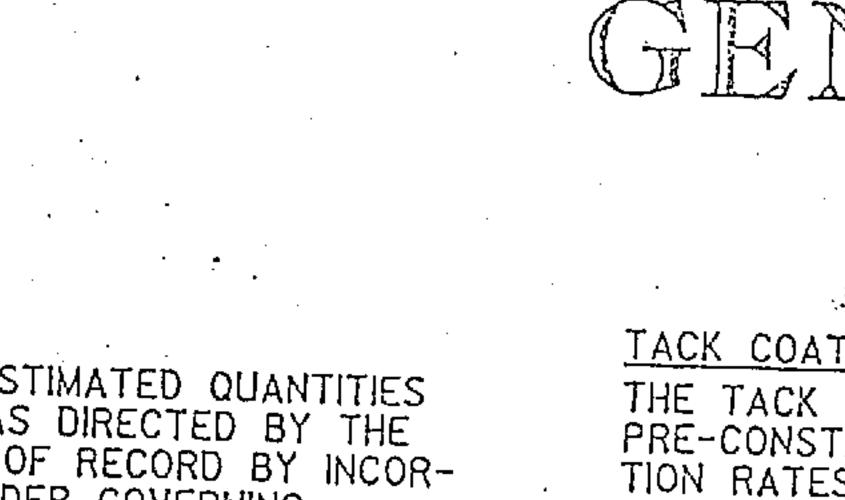
INTERMEDIATE COURSE, SPOT LEVELING AND PATCHING: THIS MATERIAL SHALL BE PLACED IN A SEPARATE OPERATION WHERE AND AS DIRECTED BY THE ENGINEER.

TACK COAT:

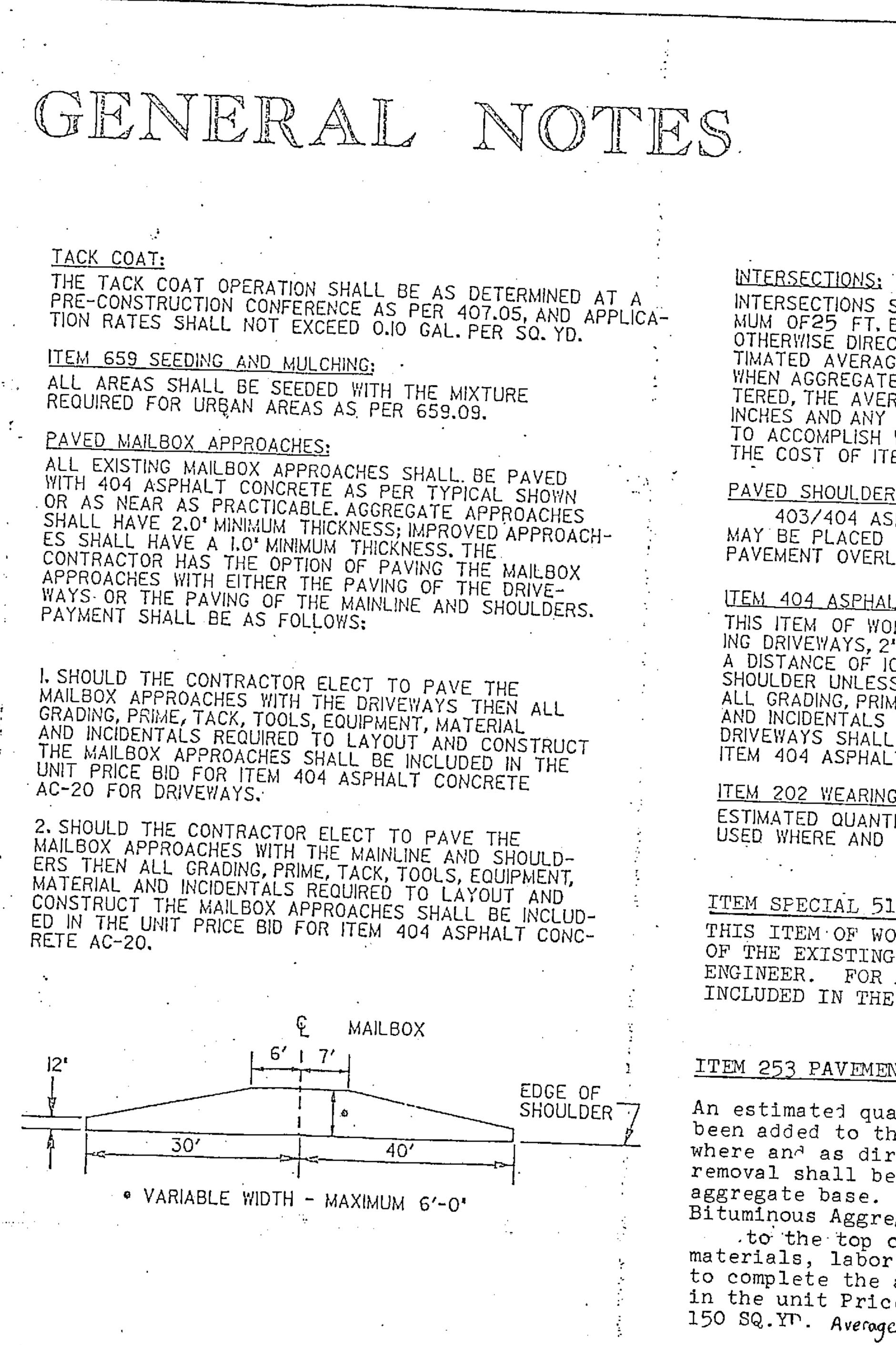
407.04 PREPARATION OF SURFACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL DIRT, VEGETATION, ETC. TO EXPOSE THE EXISTING PAVED SHOULDER AT NO ADDITIONAL COST TO THE STATE.

ITEM SPECIAL MAILBOX SUPPORTS:

THIS ITEM SHALL CONSIST OF REPLACING AND RESETTING ALL NON-STANDARD MAILBOX SUPPORTS WITH PRESSURE TREATED FOUR INCH BY FOUR INCH (NOMINAL) TIMBER POSTS, MEETING AASHTO M 133 BI AWTA P8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LOCAL POSTMASTER TO DETERMINE PROPER HEIGHT, DEPTH OF EMBEDMENT AND LOCATION OF SUPPORTS, ALL MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE REMOVAL AND INSTALLATION OF THE EXISTING MAILBOX ON THE NEW TIMBER POSTS AND RESETTING THE MAILBOX POSTS, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM SPECIAL MAILBOX SUPPORTS.



BUTT



INTERSECTIONS SHALL BE RESURFACED A MINI-MUM OF25 FT, BEYOND THE EDGELINE UNLESS OTHERWISE DIRECTED BY THE ENGINEER, ES-TIMATED AVERAGE THICKNESS 1,25 INCHES. WHEN AGGREGATE INTERSECTIONS ARE ENCOUN-TERED, THE AVERAGE THICKNESS SHALL BE 3.0 INCHES AND ANY GRADING OR PRIME NECESSARY TO ACCOMPLISH WORK SHALL BE INCLUDED IN THE COST OF ITEM OF 404.

PAVED SHOULDERS: 403/404 ASPHALT CONCRETE FOR SHOULDERS MAY BE PLACED IN THE SAME OPERATION AS ADJACENT PAVEMENT OVERLAY.

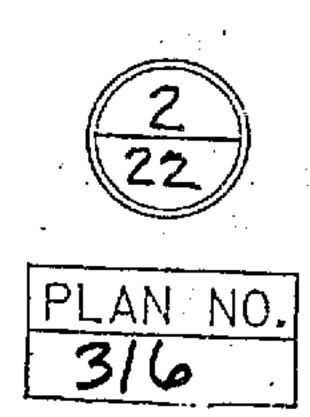
ITEM 404 ASPHALT CONCRETE AC-20 FOR DRIVEWAYS: THIS ITEM OF WORK SHALL CONSIST OF PAVING ALL EXIST-ING DRIVEWAYS, 2' MIN. AGGREGATE OR I' MIN. IMPROVED, A DISTANCE OF 10' FROM THE EDGE OF THE PAVED SHOULDER UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ALL GRADING, PRIME, TACK, TOOLS, EQUIPMENT, MATERIAL AND INCIDENTALS REQUIRED TO LAYOUT AND CONSTRUCT THE DRIVEWAYS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 404 ASPHALT CONCRETE AC-20 FOR DRIVEWAYS.

ITEM 202 WEARING COURSE REMOVED:

ITEM SPECIAL 512 Sealing of Concrete Surfaces (EPOXY) THIS ITEM OF WORK-SHALL BE USED TO SEAL THE EDGES OF THE EXISTING BRIDGE DECK AS DIRECTED BY THE ENGINEER. FOR ADDITIONAL DETAILS SEE THE NOTES INCLUDED IN THE PROPOSAL.

ITEM 253 PAVEMENT REPAIR

An estimated quantity of Item 253 Pavement Repair has been added to the General Summary and shall be used where and as directed by the Engineer. Depth of removal shall be all unsound and loose pavement and aggregate base. Replaced material shall be 301 Bituminous Aggregate Base, AC-20 compacted to the top of the existing pavement. All materials, labor, equipment and incidentals necessary to complete the above operation shall be included in the unit Price Bid for Item 253 Pavement Repair 150 SQ.YT. Average Depth of repair is 9 inches.

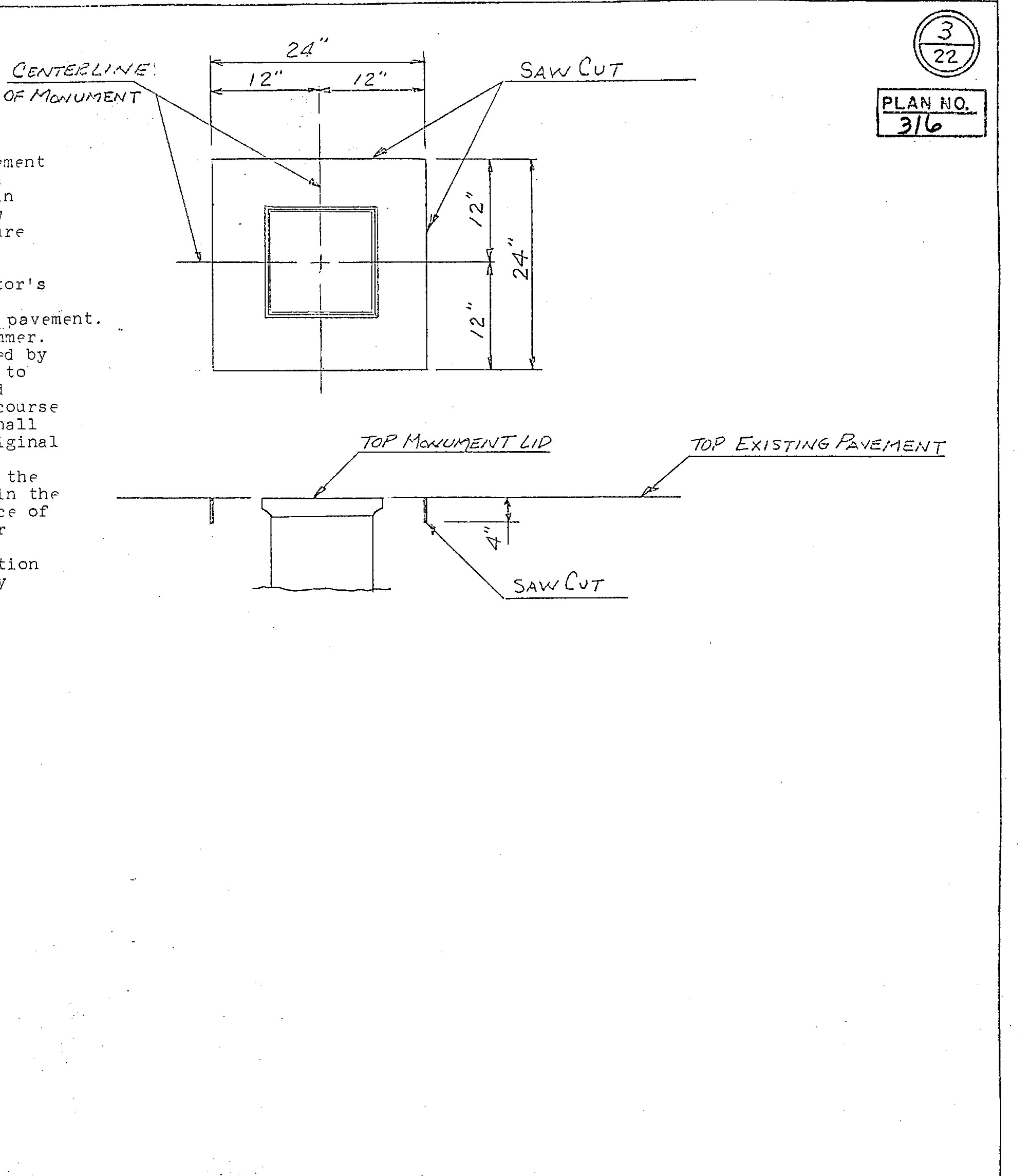


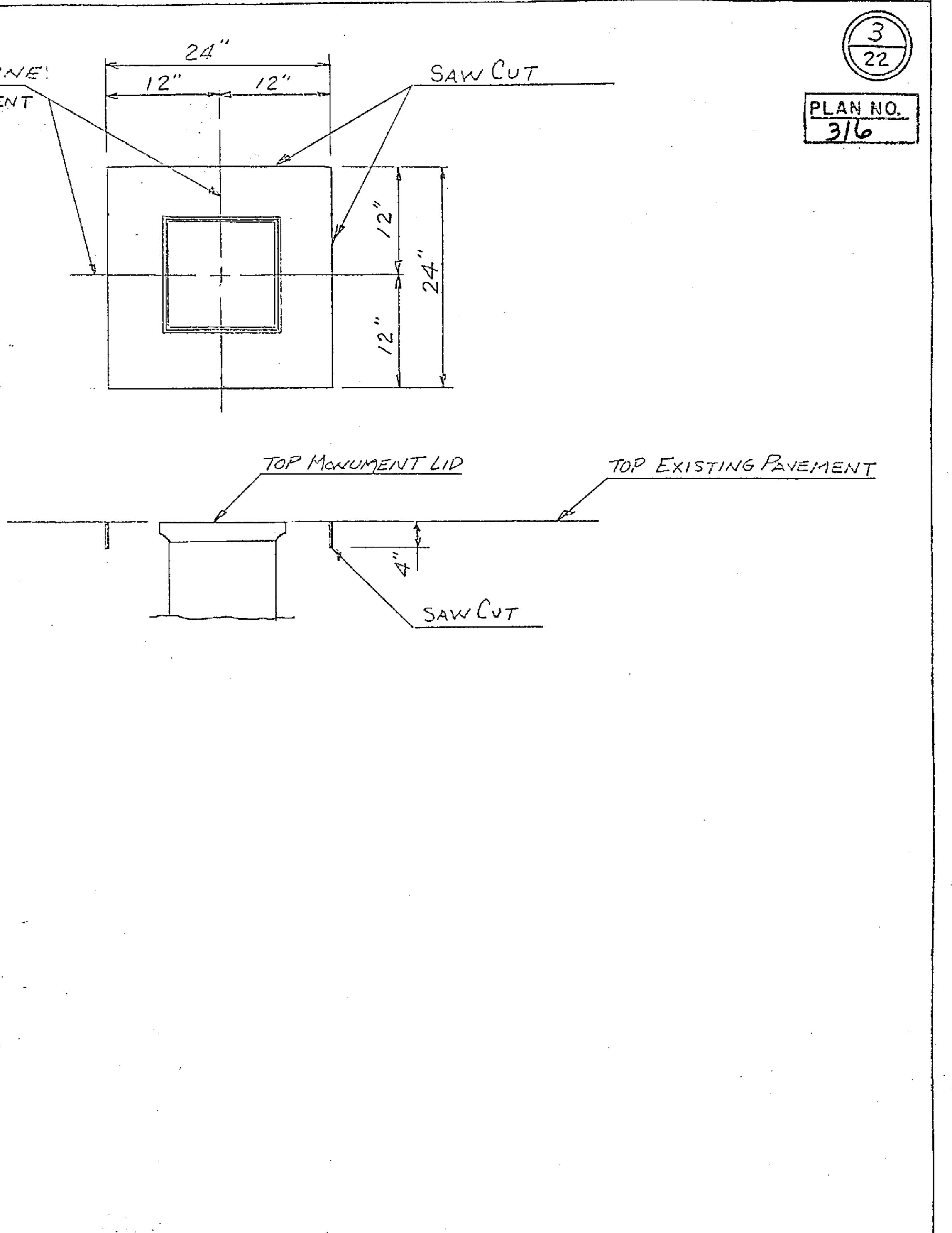
ESTIMATED QUANTITIES HAVE BEEN PROVIDED AND SHALL BE USED WHERE AND AS DIRECTED BY THE ENGINEER.

DEPARTMENT OF TRANSPORTATION M& R 712 REV. 9-1-83

604 Monument Assembly As Per Plan

This unit of work shall include the comolete removal and replacement of each monument assembly. Replacement shall be as per Standard Construction Drawing MC-] dated 6-13 69 and shall include new pin frame, lid and pipe. The removal shall begin with a 4" deep saw cut 24" square around existing box. Care shall be taken to insure remaining vertical surfaces are protected from damages, Any damages done to the pavement and/or shoulders as the result of this work needing removed and replaced. shall be at the contractor's expense. Bedding if required shall be 617 type A compacted and backfill. 404 compacted in 3" lifts maximum, to top of existing pavement. CONTRACTOR NOTE: Removal work may require the use of a jack hammer. Once a removal is started, complete replacement shall be finished by the end of the working day. No open excavation will be allowed to remain overnight. The above work shall be started and completed after the 403 soot leveling course. but before the 404 wearing course is placed. Re-establishment of reference or elevation points shall be performed by a licensed surveyor and any changes from the original points shall be reported to the appropriate officials. Name of Surveyor, license number and copy of actual field notes used in the performance of this work shall become a permanent record filed in the District Construction Office. Traffic control during performance of this work shall be as per the Ohio Manual of Traffic Control For Construction and Maintenance Operations. All materials, labor, equipment and incidentals necessary to complete the above operation shall be included in the unit bid for Item 604 Monument Assembly As Per Plan.





Department of transportation Ma R 712 — Rev. 9-1-83

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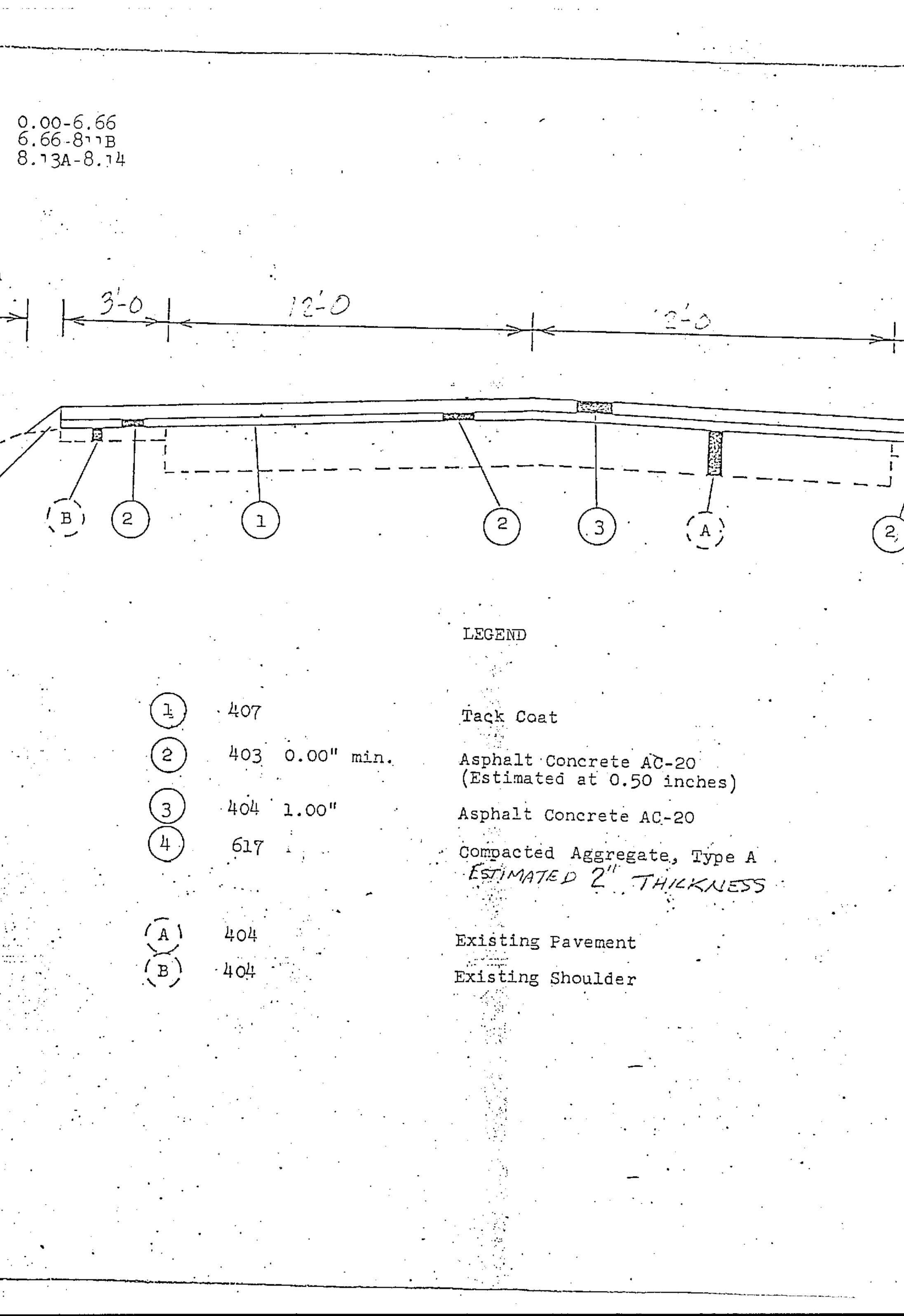
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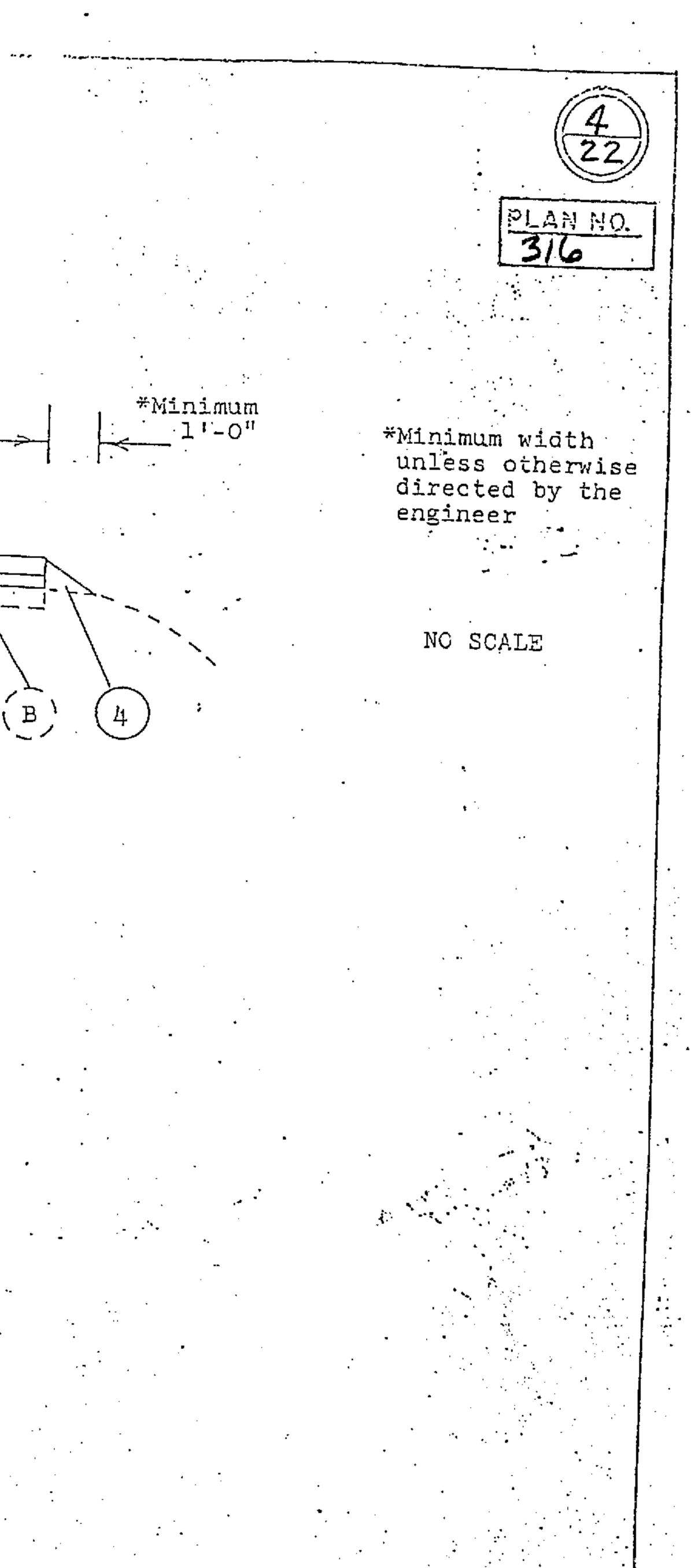
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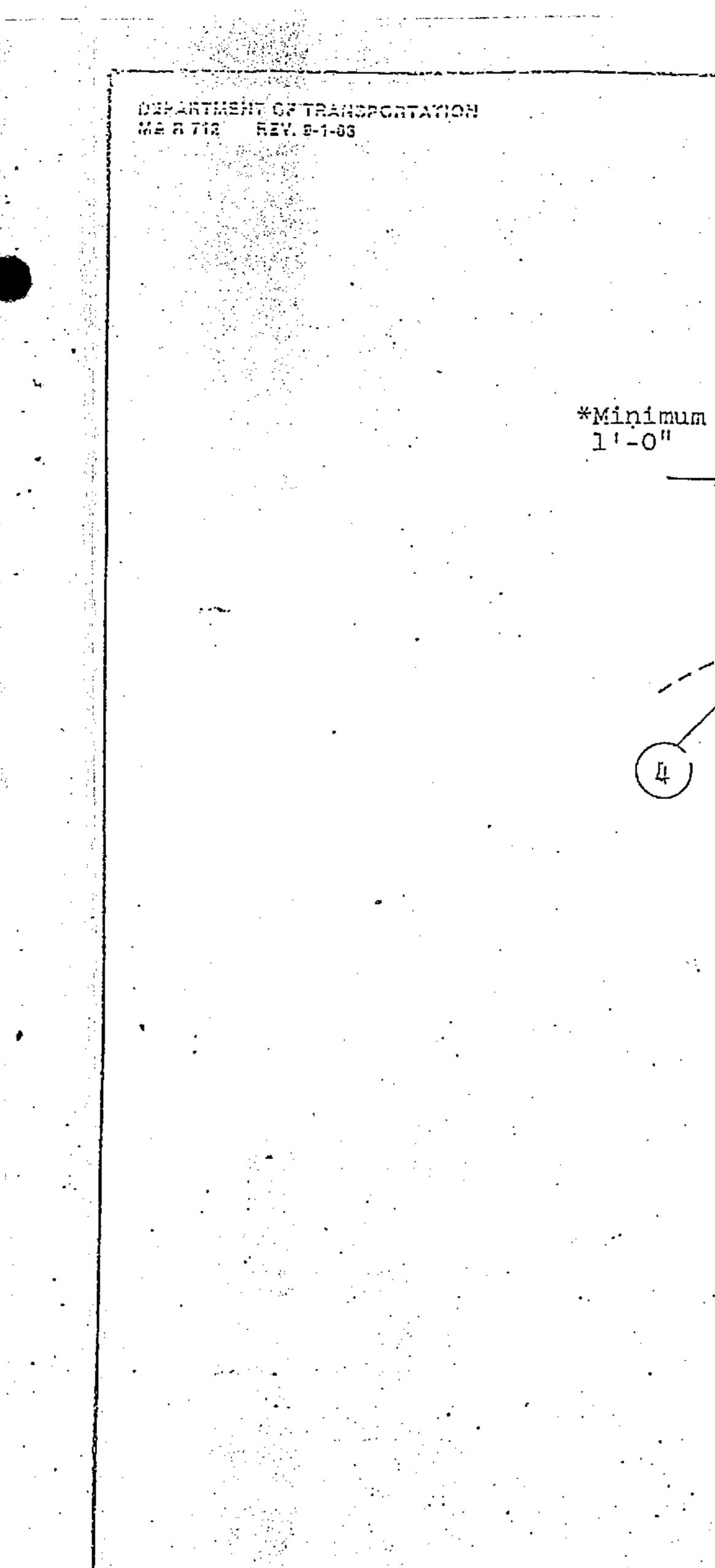
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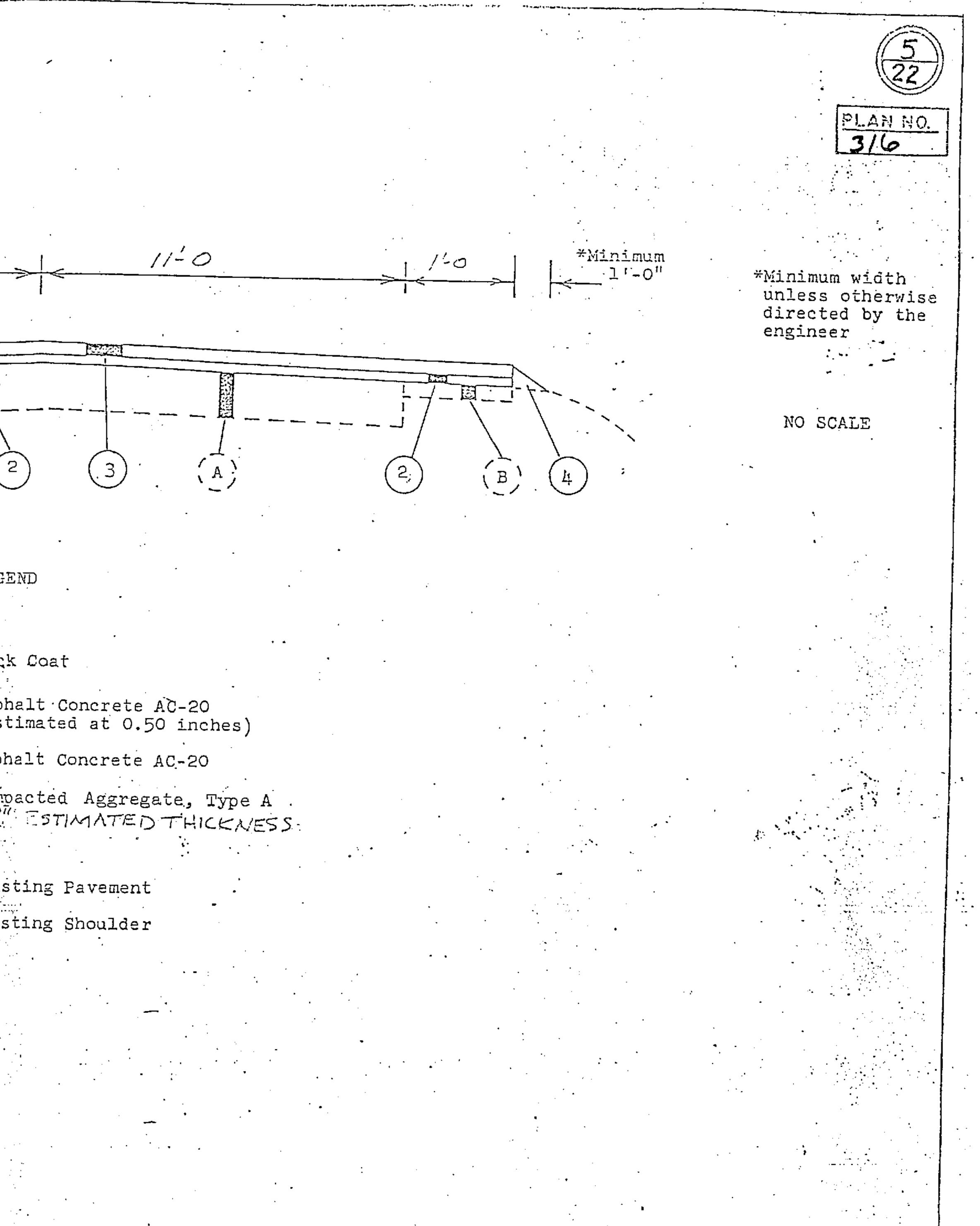
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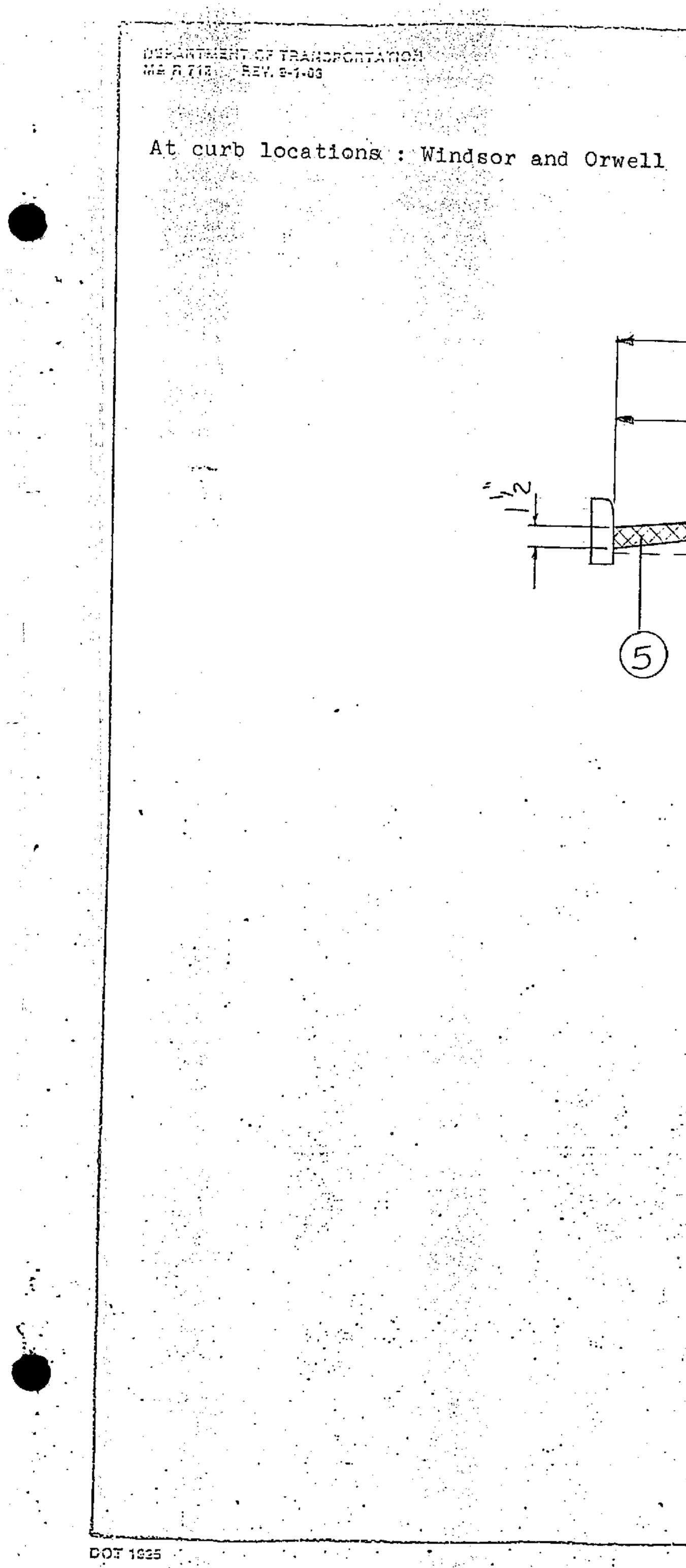
(B) (2) 1

LEGEND 407 Tack Coat 0.00" min. Asphalt Concrete AC-20 (Estimated at 0.50 inches) 403 2

404 1.00" (3) Asphalt Concrete AC-20 Compacted Aggregate, Type A 2" ESTIMATED THICKNESS 617

404 Existing Pavement A 1 A. A. M. H. M. M. M. Existing Shoulder 404





Varies 12-0 LEGEND 407 0.00" min. 403 5 40<u>4</u> 1.00" 3) MMBNT 0.00 MIN Compacted regregates Type A. 254 0.0"- 1-1/2" **(**5.) 404 Α 404 (B) • • • •

Varies 12-0 22 3) (2) B (5)(A)

Tack Coat

Asphalt Concrete AC-20 (Estimated at 0.50 inches) Asphalt Concrete AC-20

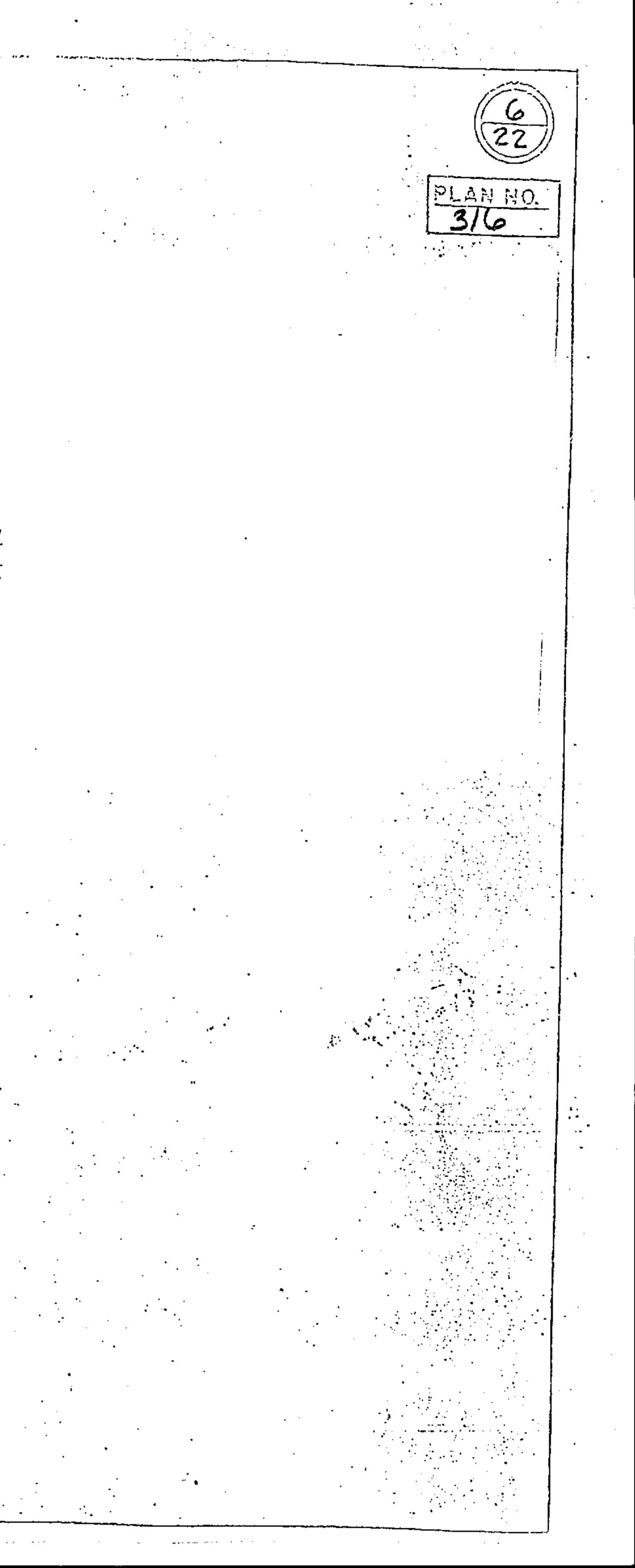
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Pavement Flanning, Bituminous (0.75" Avg.)

Existing Pavement Existing Shoulder

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REVISED 7/90

ITEM 203 LINEAR GRADING METHOD D:

UPON COMPLETION OF THE PAVING OPERATION, THE CONTRACTOR SHALL PLACE ITEM 617 COMPACTED AGGREGATE ADJACENT TO THE PAVED BERM, NO MORE THAN 4 THICK. THE REMAINING SHOULDER WIDTH, BEYOND THE PAVED SHOULDER, SHALL BE GRADED USING A 3/4 /FT. SLOPE TO THE BREAK POINT. ALL EXCAVATED MATERIAL SHALL BE USED TO CONSTRUCT EMBANKMENTS IN CONFORMITY WITH THE TYPICAL SECTION. THE CONTRACTOR WILL NOT BE REQUIRED TO SCALP THE EXISTING FORE SLOPES PRIOR TO THE EMBANKMENT CONSTRUCTION. ANY EXCESS MATERIAL AND ALL MATERIAL DETERMINED TO BE UNSUITABLE, BY THE ENGINEER, SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, ANY DISTURBED AREAS, BEYOND THE AREA TREATED WITH ITEM 617, SHALL BE SEEDED IN ACCORDANCE WITH ITEM 659 SEEDING AND MULCHING.

THE METHOD OF MEASUREMENT, OF ITEM 203 LINEAR GRADING METHOD D, SHALL BE STATIONS, WITH ONE STATION EQUAL TO 100 LIN.FT. STATIONS SHALL BE MEASURED ALONG EACH EDGE OF PAVEMENT.

ALL MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK, SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 203 LINEAR GRADING METHOD D, EXCLUDING ITEM 659 SEEDING AND MULCHING AND ITEM 617 COMPACTED AGGREGATE, WHICH SHALL BE PAID FOR SEPARATELY.

ITEM 203 BORROW, AS PER PLAN:

AN ESTIMATED QUANTITY OF ITEM 203 BORROW, AS PER PLAN HAS BEEN ADDED TO THE GENERAL SUMMARY AND SHALL BE USED WHERE AND AS DIRECTED BY THE ENGINEER, ALL BORROW SHALL BE RESTRICTED TO MATERIALS WHICH HAVE A MAXIMUM 50% BY WEIGHT PASSING THE NO. 200 SEIVE, IN ORDER TO ELIMINATE SANDY SOILS AND SUPPORT GROWTH OF VEGETATION. ALL MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE OPERATION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203 BORROW, AS PER PLAN.

PART I 50 CU.YDS.

ITEM 659 SEEDING AND MULCHING:

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN PROVIDED TO RESTORE VEGETATIVE GROWTH TO THE AREAS DISTURBED BY THE ITEM 203 LINEAR GRADING, METHOD D. ALL AREAS SHALL BE SEEDED WITH THE MIXTURE REQUIRED FOR URBAN AREAS.

ITEM	UNIT	DESCRIPTION
659	SQ.YDS.	SEEDING AND MULCHI
659	TONS	COMMERCIAL FERTILIZ
659	TONS	AGRICULTURAL LIMING

THE CONTRACTOR HAS THE OPTION OF USING SS-943 IN LIEU OF 659.06 MATERIAL.

TTFM 203LINEAR

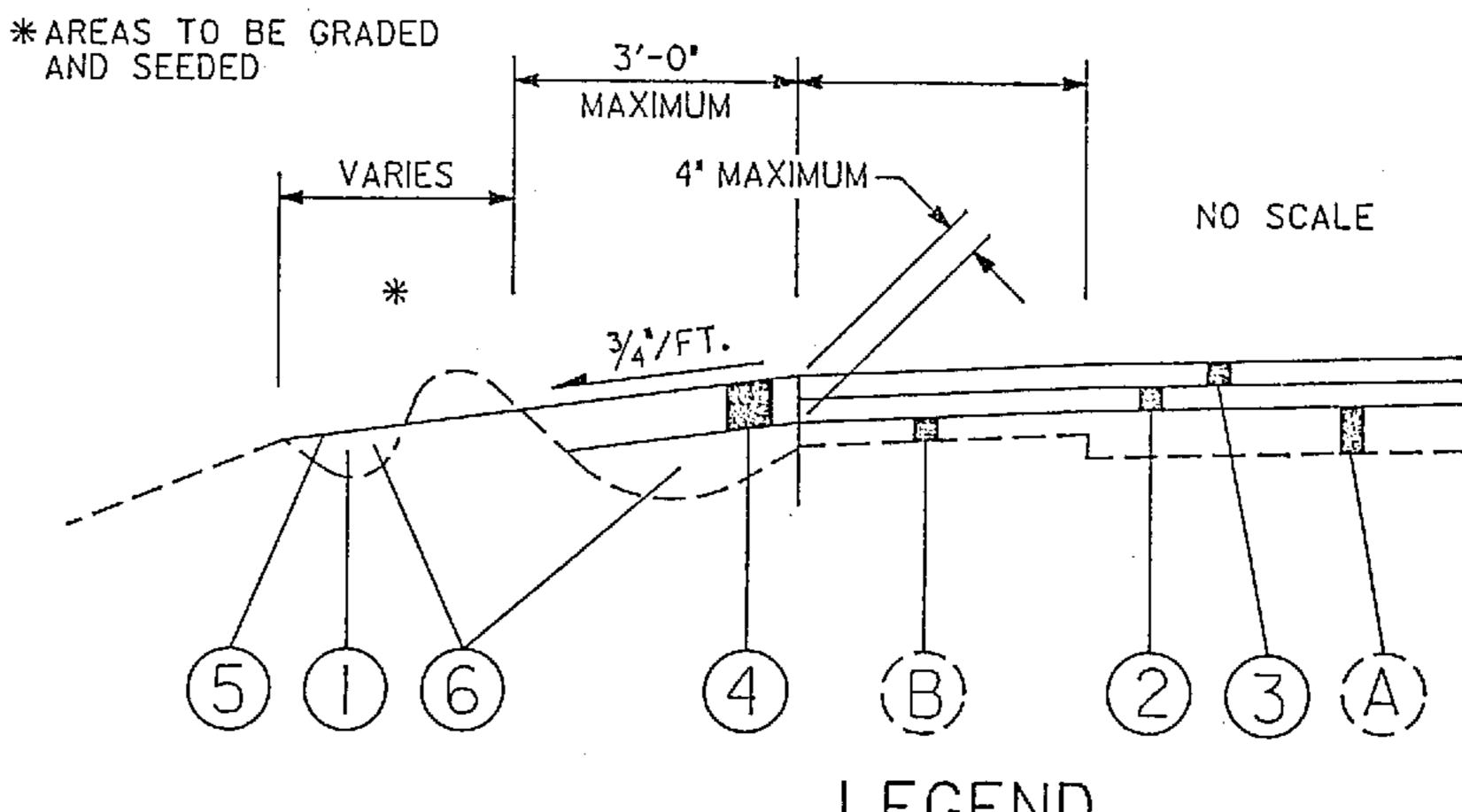
PART I

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GRADING

MRTH

PART	ROUTE	FROM
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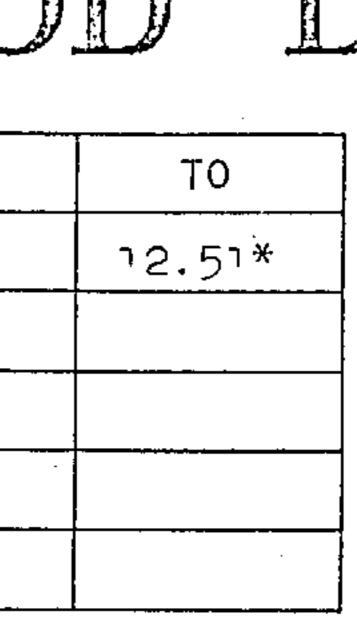


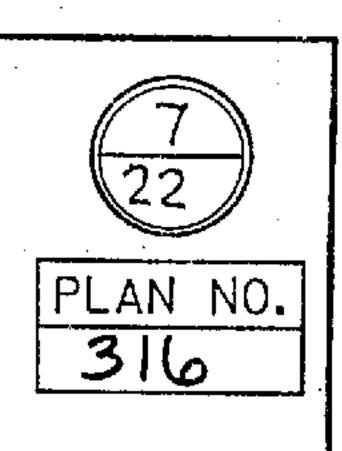
- 203
- 403 VAR. DEPTH
- 404
- 2.00" AVG. 617 4)
- (5) 659
- (6) 203

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 (\overline{B})

EGEND LINEAR GRADING METHOD "D" ASPHALT CONCRETE, AC-20 (ESTIMATED @ 0.50 INCHES) ASPHALT CONCRETE, AC-20 COMPACTED AGGREGATE, TYPE A SEEDING AND MULCHING BORROW, AS PER PLAN EXISTING ASP. CONC. PAVEMENT EXISTING PAVED SHOULDER





Excluding Curbed

Sections

DEPARTMENT OF TRANSPORTATION M& R 707 REV. 9-1-83

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See Page 4

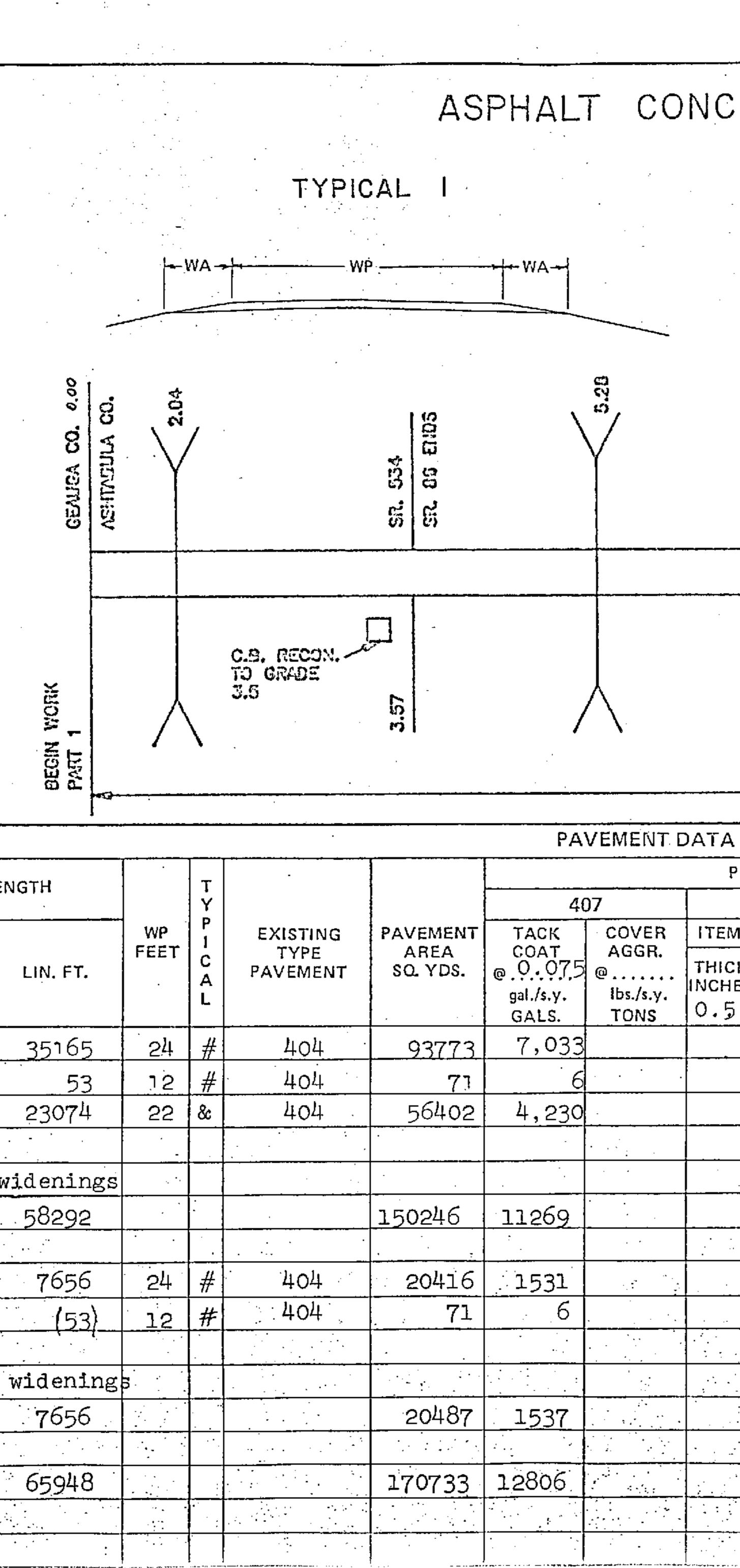
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& See Page 5

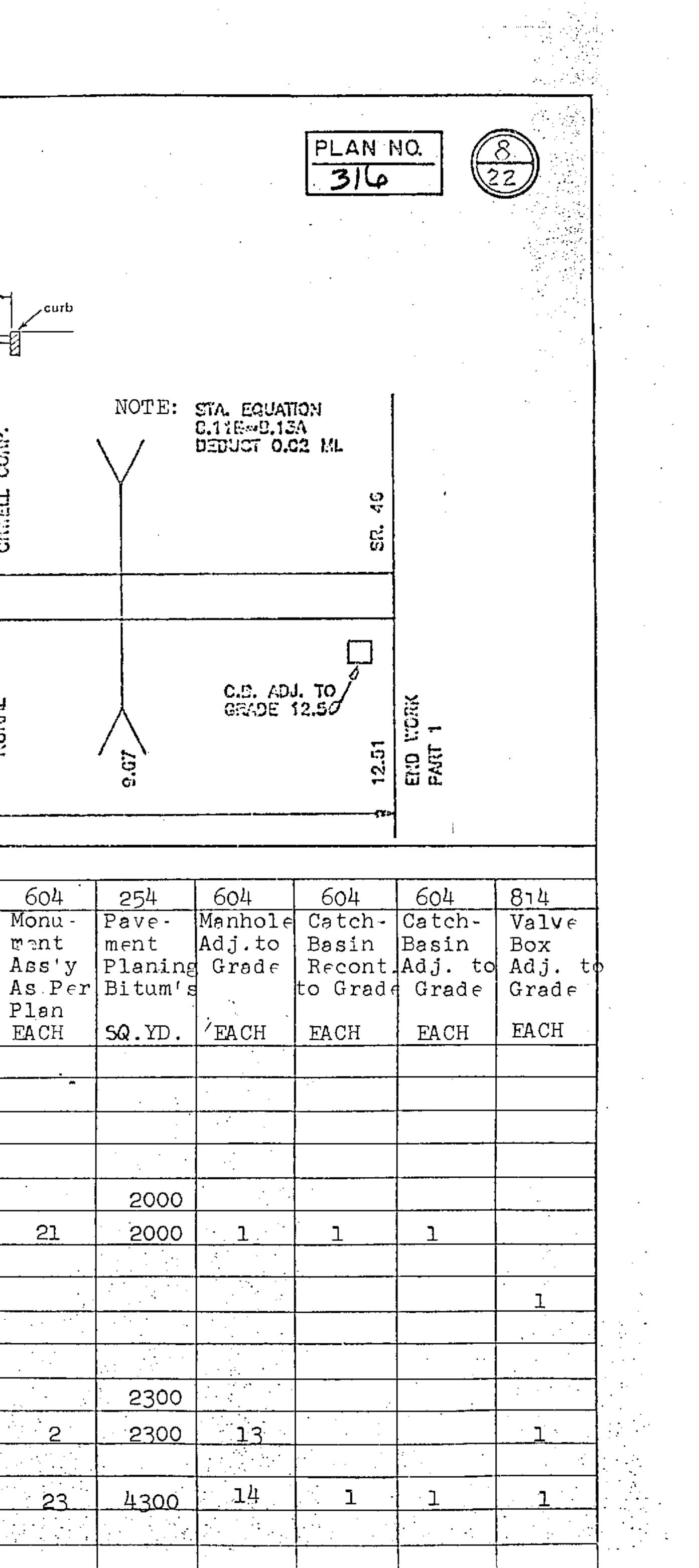
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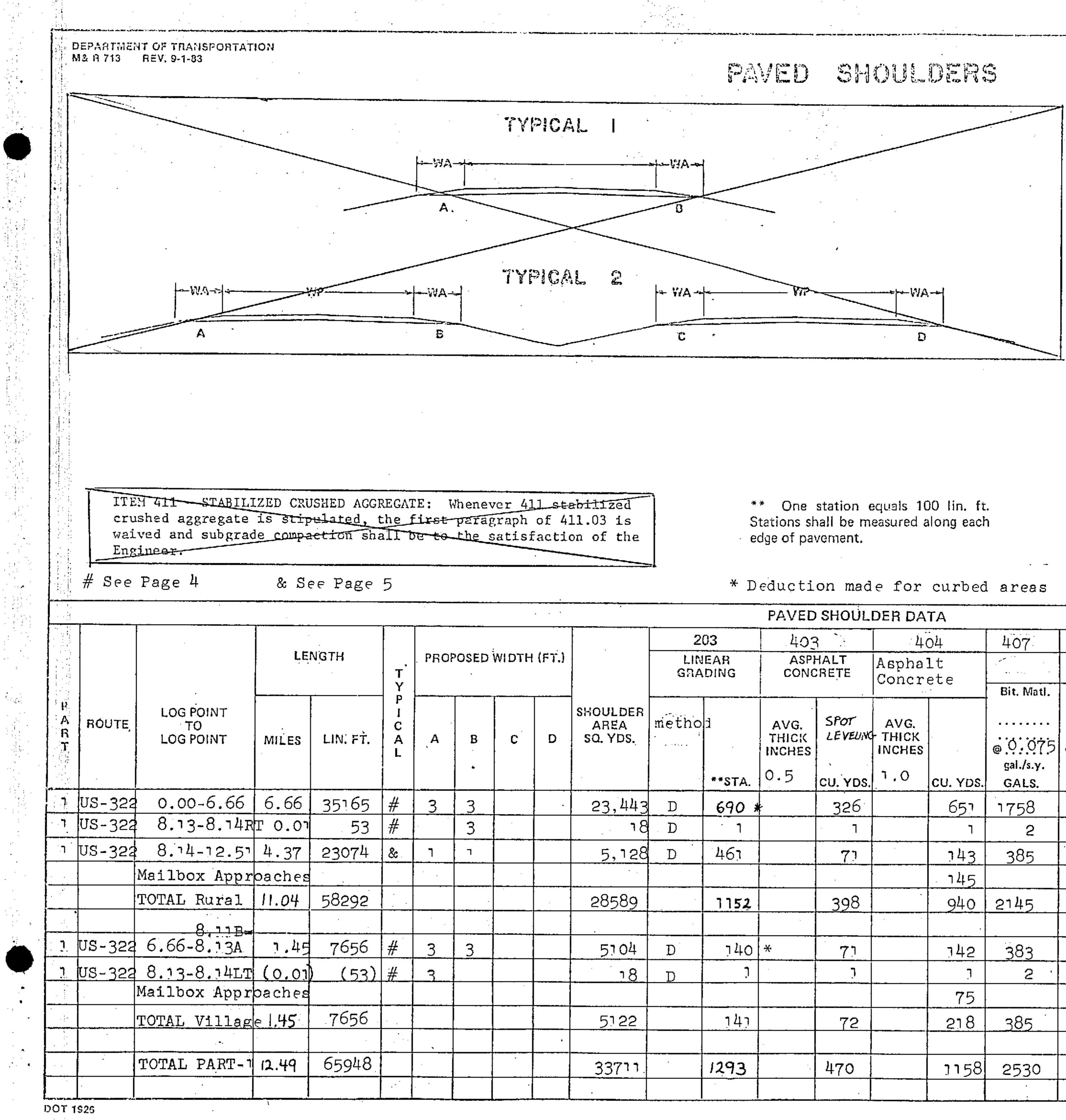
LENGTH PART ROUTE LOG POINT то LOG POINT MILES 0.00-6.66 6.66 US-322 8.13A-8.14RT ٥.0٦ US-322 8.14-12.51 US-322 4.37 Intersections Extra areas, Curb Widenings 11.04 TOTAL Rural 6.66-8.13A US-322 1.45 8.13-8.14 LT (0.01) US-322 Intersections Extra areas for Curb widenings TOTAL VILLAGE 1.45 Deduct .02 for sta. eq. 12.49 65948 TOTAL PART-1 _____

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CONCRETE TYPICAL â <ORWELL RURNL RUEN CORP 0.11 8.13 7.02 PART PROPOSED PAVEMENT 604 Monu -ASPHALT CONCRETE mont ITEM 404 ITEM 404 ITEM 403 THICK SPOT THICK THICK Drive- As Per Bitum's INCHES ways Plan 0.5 CU. YDS. 1.0 CU. YDS. EACH CU. YDS. 2604 1303 225 ****** · 2 784 1567 20 ۲ 85 20 47 345 2108 21 4305 284 567 150 · -2 ·. : ·. · 55 • • 4 • • • <u>`</u>25 59 683 310 150 2 • • 2418 4988 495 23 · · .





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A	B	С	D	SHOULDER AREA SQ. YDS.	metho	1 **STA.	AVG. THICK INCHES	SPOT	AVG. THICK INCHES		Bit. Matl. @ 0.075 gal./s.y. GALS.	gai./s.y.	@ c.y./s.y.	2" avg. Thickness 2' avg. width cu.yps.	LIN. FT.	Mailbox Supports		N O T E S
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material in accordance with 491.12.

Concrete.

4. ITEM 617 COMPACTED ACGREGATE: A quantity of Item 617 Compacted Aggregate has been provided for areas where the shoulders were low prior to grading and/or low areas caused by removal of unsuitable material.

5. ITEM 408 BITUMINOUS PRIME COAT: After application of the Prime Coat, no further treatment shall be performed until so directed by the Engineer.

6. <u>SHIELD:</u> The contractor shall provide a shield to prevent the spraying or drifting of liquid bituminous material onto the edge of the pavement or edgelines. The attention of the contractor is directed to 107.12 of the Specifications.

*NOTES

2. ITEM 402 ASPHALT CONCRETE: Prior to placing a bituminous mixture for shoulder paving, the edge of the existing pavement, for the full depth of the trench, shall be coated with bituminous

PLAN NO. 316

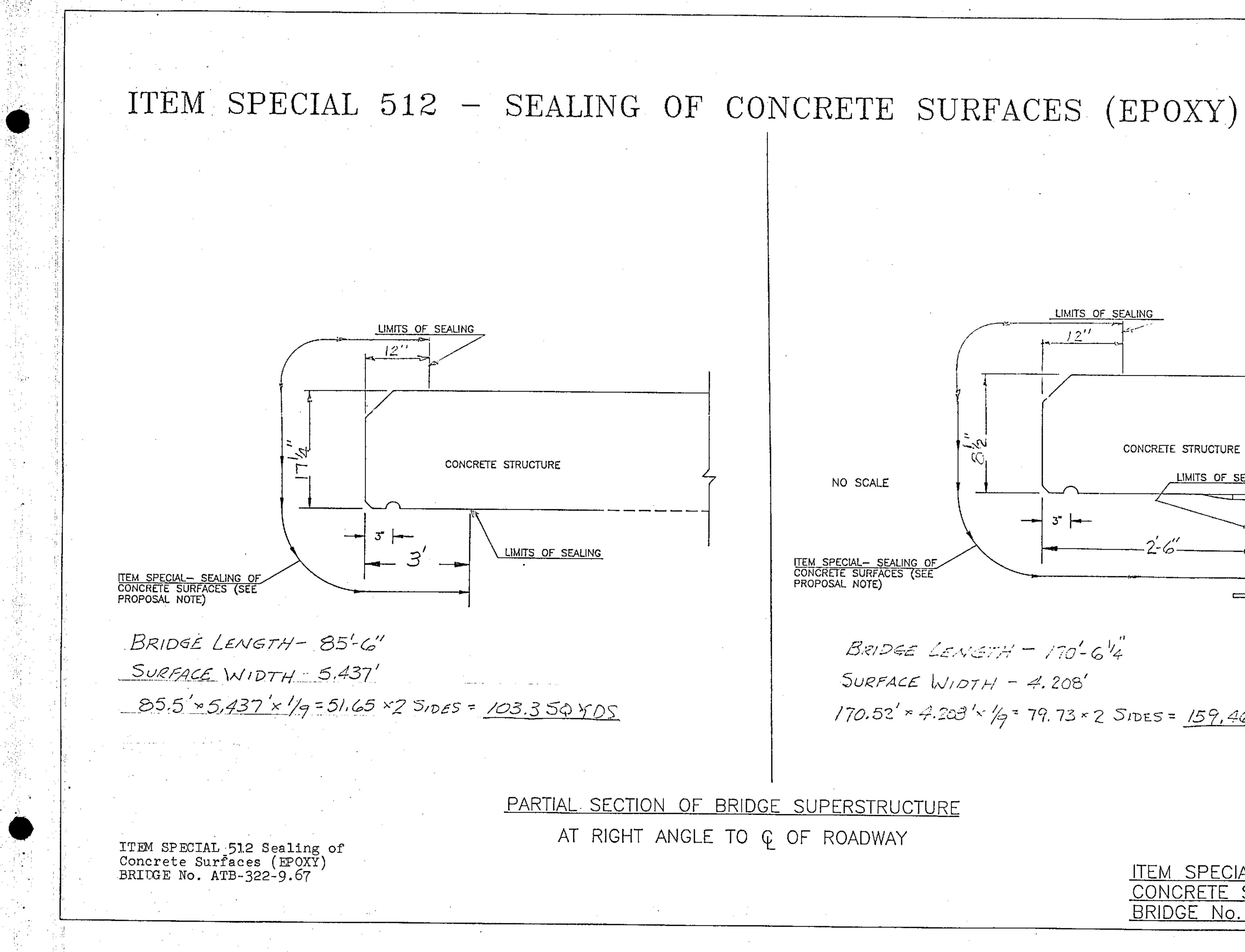
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3. ITEM 301 BITUMINOUS AGGREGATE BASE may be used in lieu of Item 402 Asphalt

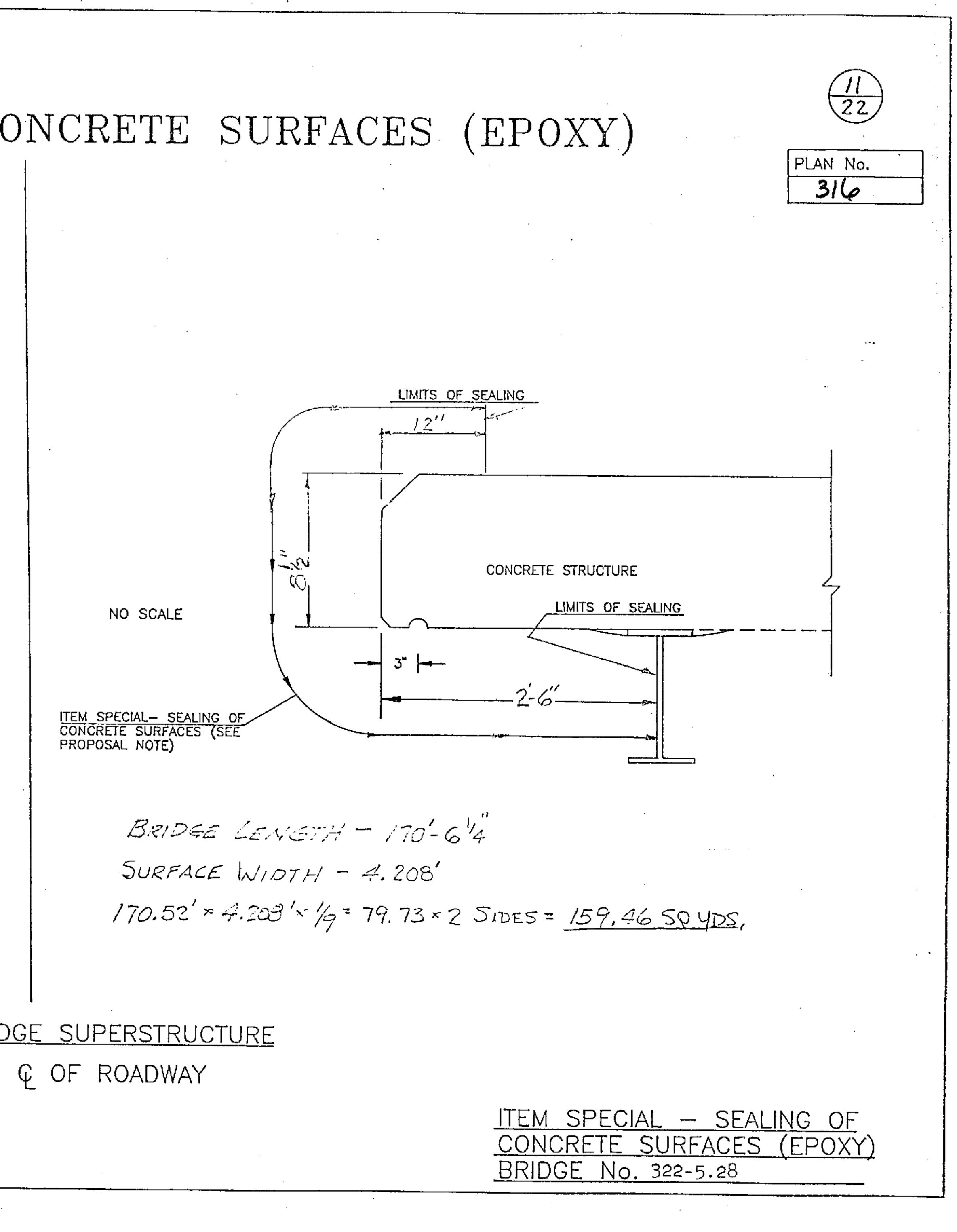
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A MI	NIMUM OF 1-1/2	INCHES OF	F 404	ASPHAL	т Т	STEEL END D LAP SHALL E FOR GALVAN	IDING AT THE AM ANGLE.WH E USED WITH ZED STRIPS SH	ERE SPLICES A FASTENER HALL BE 8' X	ARE RE THROUG 0.105	QUIRED H THE AND SI	, A 3' (LAP. ST HALL ME	MIN.) TEEL TET				45°			
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ART	COUNTY, ROUTE, BRIDGE NO.	LENGTH (BRIDGE LIMITS)		DECK			LATEX MODIFIE DENSE CONCR		PATO	CHING	STEEL DRIP STRIP	DECK WATE MEMBRANE WATERPROOFING SHEET TYPE I	ERPROOFING MEMBRANE WATERPROOFING	VERTICAL EXTENSION OF STRUCT. EXPANSION	THICK	404	SEALING OF Concrete Surfaces	TACK COAT SS-924	
	DRIDGE NU.		-	AREA	DEPTH	OVERLAY	VARIABLE THICKNESS OVERLAY	FULL DEPTH REPAIR						JOINTS	INCHES		(EPOXY)	0.075	
			 	ISQ.YDS.	SO.YDS.	SQ.YDS.	CU.YDS.	CU.YDS.	 	5.1.	LIN.FT.	SO.YDS.	SQ.YDS.	LIN.FT.		CU.YDS.	5Q.7DS.	GAL	
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BRIDGES APPLICABLE: ATB-322-0528, ATB-322-0967, ATB-322-0204 LENGTH OF WEARING COURSE REMOVAL ON ALL APPROACHES TO THESE THREE (3) BRIDGES WILL BE; 75 FEET EACH APPROACH (TOTAL OF SIX) AT A RATE OF 1/2 INCH TO 25 FEET. STARTING AT 0.0 INCHES 75 FEET FROM THE BRIDGE TO 1.5 INCHES AT BRIDGE.

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PARTIAL SECTION OF BRIDGE SUPERSTRUCTURE AT RIGHT ANGLE TO Q OF ROADWAY



DEPARTMENT OF TRANSPORTATION M& R 712 REV. 9-1-83

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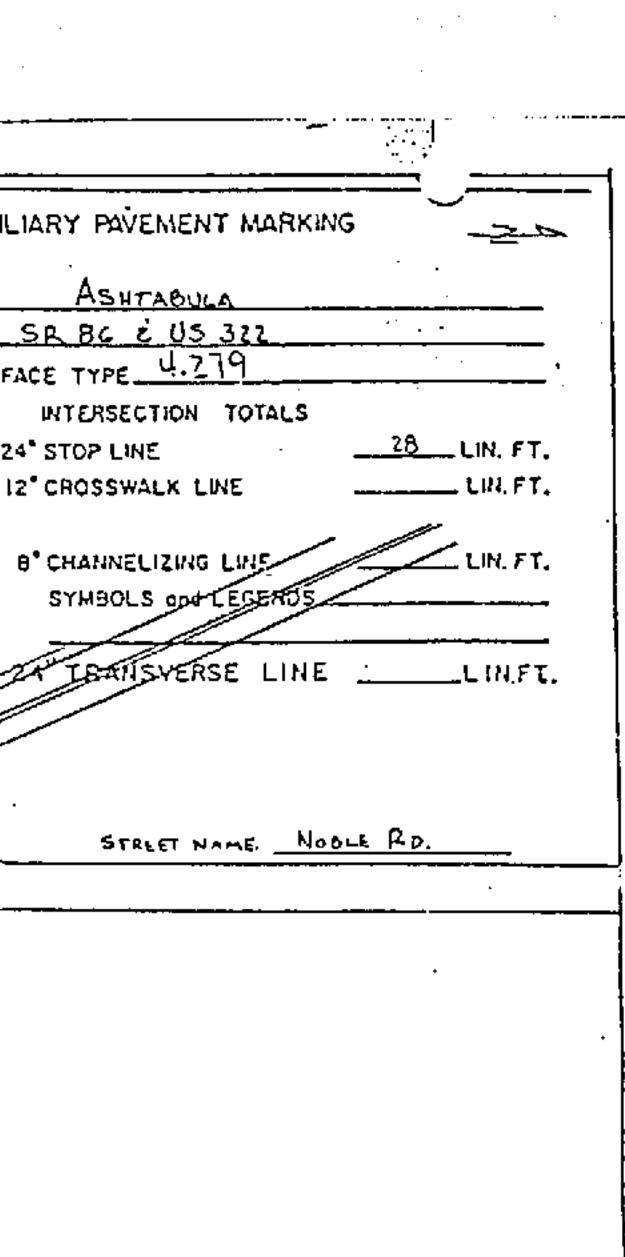
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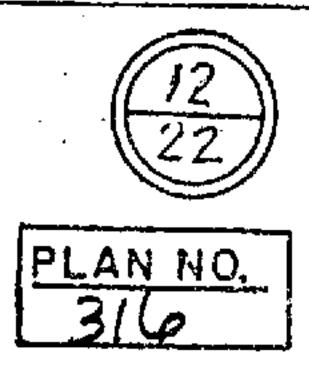
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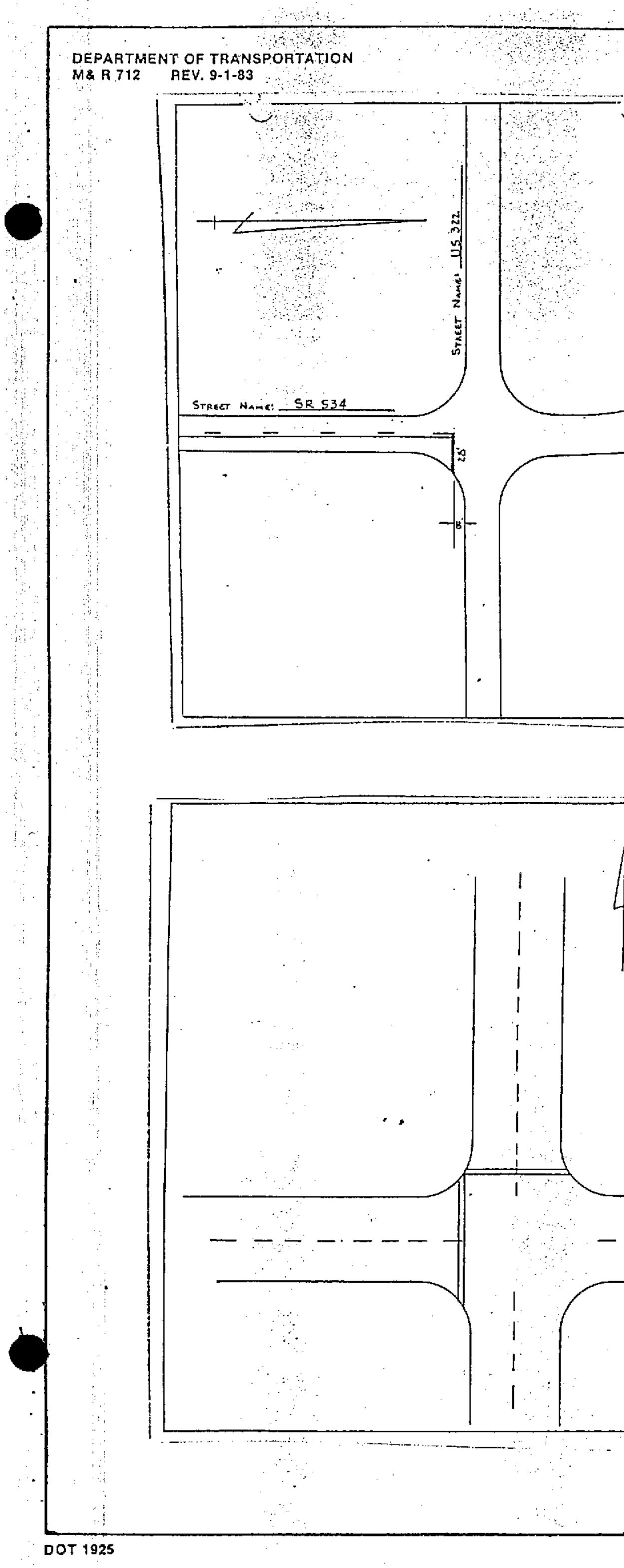
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and the second AUXILIARY PAVEMENT MARKING COUNTY ATB LOCATION U.S. 322 SLM 7.75 PAVEMENT SURFACE TYPE 404 INTERSECTION TOTALS 24" STOP LINE _____ LIN. FT. 80_ LIN. FT. TRANSPORTER 12" CROSSWALK LINE IN 8" CHANNELIZING LINE _____ LIN, FT. SYMBOLS and LEGENDS 24" TRANSVERSE LINE _____LIN.FT. <u>US_322</u> · · · · · · • cou LOC PAV . N **The set** • -----. . • · . • -• . -----

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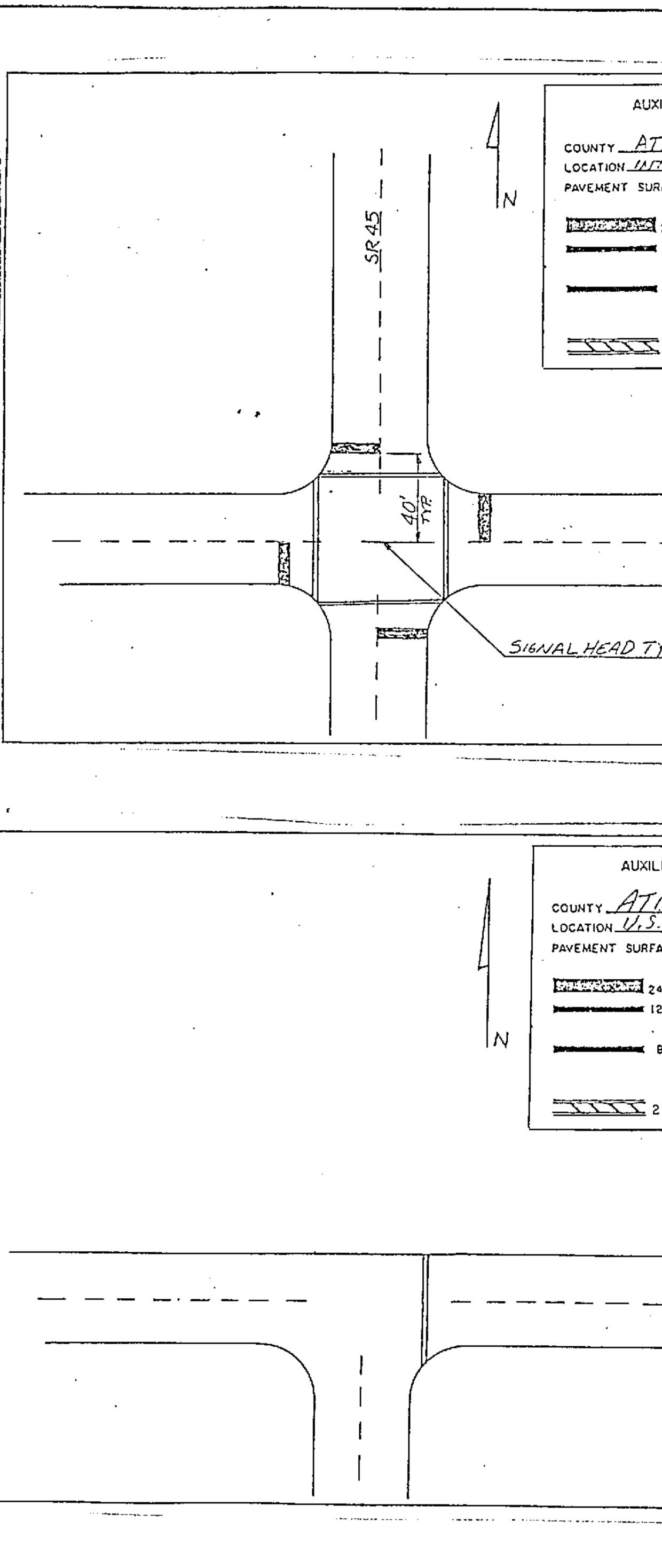






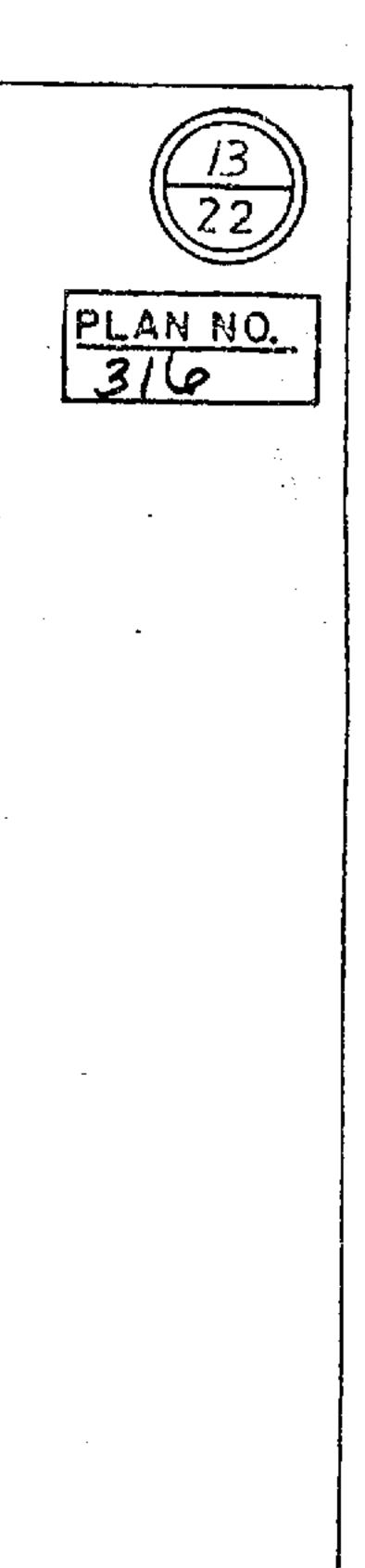
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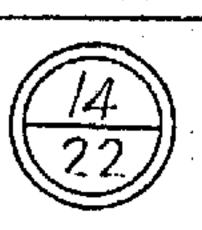
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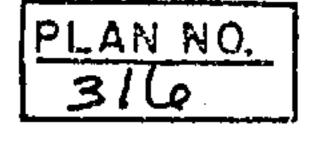
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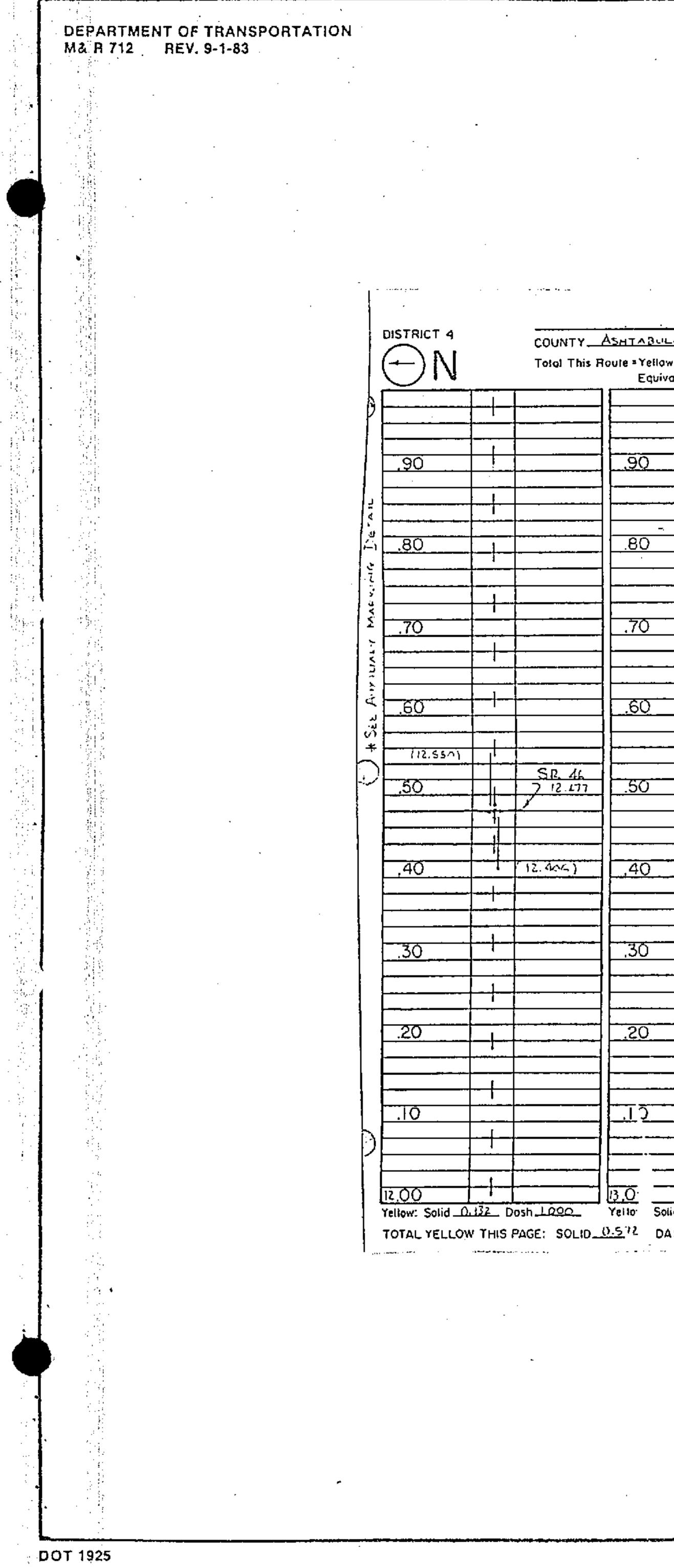
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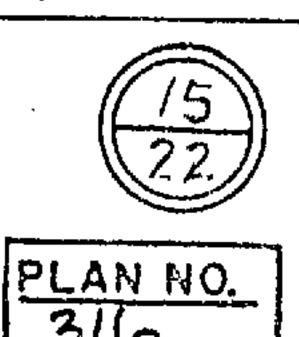
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CO.		S.L.M. FROM 0.000 GEAUGA COUNTY	TO S.L.M. Linie 12.477 JCT. SR 40	CENTER LI TOTAL DAS	NTITIES INES MILES SHED SOLID BAS 3.348	PARTICIPATION	621 CENTER LINE REMARKS
	LINE TOTAL ROUTE	FROM	TO S.L.M.	621 QUA 4' LANE LI		PARTICIPATION	621LANE LINE REMARKS
LANE L CO. ATR ''	NE TOTAL ROUTE US 322 US 322	FROM S.L.M. FROM 0.000 GEAUGA COUNTY 7.102 JCT SCHOOL AV	TO S.L.M. LINIE 6.989 BEGINI CURB E 12.477 JCT. SR 46	WHITE EDGE LINE TOTAL HIGHWAY MILES MILES 13.978 6.989 10.750 5.375	······································	YELLOW EDGE LINE QI TAL HIGHWAY RAN ES MILES MILI	
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СО. Атв	ZING LINE TOTA ROUTE US 322 & WINDSO US 322 & WINDSO JS 322 & CALEBROOM JS 322 & CALEBROOM JS 322 & SR 86/5	S.L.M. 24' FROM TO WHI	623 FRANSVERSE STOP 12' CROSSWA LINES LINES TE YELLOW 24' WHITE T. LIN.FT. LIN.FT. LIN.FT. LIN.FT. 56 84 780	Auxiliary Markings (708.14 LK WORD ON PAVEMENTI LAN ONLY SCHOOL TURN 96' 96' LEFT RIC EACH EACH EACH EA	Alykd Fast Dry) NE ARROWS R/ SYN GHT THRU. COMB. PA ACH EACH EACH	ALROAD DOTTED ABOL ON LINES VEMENT WHITE YELL(EACH LIN.FT. LIN.F	PAINTED ISLAND DW MARKINGS T. SQ.FT, Each 2 1

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In addition to the requirements of 621 and 847 the following shall apply:

621 and 847 Materials

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The materials used on this project shall either be 621 fast dry traffic paint or 847 thermoplastic material approved by prequalification.

The Contractor shall provide storage for all materials and shall transport materials to the site where used. Glass beads shall be kept dry during storage and prior to use.

The Laboratory will furnish the names of manufacturers and code numbers from its approved list of prequalified white and yellow paint upon request.

621 and 847 Special Equipment

The Contractor's striper shall be equipped with an odometer graduated to 1/100 of a mile. The Engineer shall determine the degree of accuracy of the Contractor's odometer and establish an adjustment factor as may be required to accurately determine the pay item quantities. The Engineer shall periodically check the odometer's operation to assure maintenance to accurate measurements.

Failure of the odometer to function properly shall be cause to stop the work until the odometer is made to function properly. On short projects the Engineer may approve alternate methods to accurately measure the length of the various types of markings applied. If measurement of the work has to be done by the Department, the cost of the Department labor and equipment plus 10 percent shall be deducted from payment due the Contractor for the work. When measuring lane, edge and/or center line marking, the odometer shall be started at the first marked line and remain in operation, until the end of the section being marked, where it shall be shut off and the reading of the odometer recorded.

Electrical foot counters shall be provided and installed in the application equipment used to apply long line markings. The counters shall individually tabulate the amount of footage applied for each line, whether solid or dashed. The counters shall be a six digit type with a reset feature.

The Contractor shall use an accurate dashing mechanism, capable of being easily adjusted, to place lane or center line markings as specified in the plans or as directed by the Engineer.

Provision for the described special equipment by the Contractor shell be incidental to the application.

INITIAL PAVEMENT MARKINGS FOR RESURFACED SECTIONS GENERAL NOTES

621 Material Quantity Measurement

The quantity of marking material or glass beads per unit of measurement will be computed by the Engineer at the end of each day's work. A day's applied mileage of less than 2 miles may be included in the next day's applied markings for the purpose of computing marking material and bead application rates.

The Contractor shall provide a calibrated measuring device acceptable to the Engineer for measuring material in the striper tanks.

The quantity of marking material used shall be determined by measuring the marking material in the tanks before and after marking material is applied. The Contractor shall cooperate with the Engineer in providing measurements whenever requested. The marking material application rate shall be determined by dividing the total gallons used by the appropriate marking length as determined from the foot counter as described within the <u>Special Equipment</u> <u>Section</u> of these notes. Any determination of pay deduction resulting from shortages in marking quantities shall be based on the measurements obtained by this method. The amount of glass beads applied will be ascertained by the Engineer by observation and from information supplied by the Contractor as to the quantity used.

847 Material Quantity Measurement

The quantity of marking material or glass beads per unit of measurement will be computed by the Engineer at the end of each day's work. A day's applied quantity of less than 100 pounds of marking material may be included in the next day's applied markings for the purpose of computing marking material and bead application rates.

The Contractor shall provide a calibrated measuring device acceptable to the Engineer for measuring material in the striper tanks.

The quantity of marking material used shall be determined by measuring the marking material before and after marking material is applied. The Contractor shall provide measurements whenever requested by the Engineer. The marking material application rate shall be determined by dividing the total pounds of thermoplastic material used by the appropriate marking length as determined from the foot counter as described within the <u>Special</u> <u>Equipment Section</u> of these notes. Any determination of pay deduction resulting from shortages in marking quantities shall be based on the measurements obtained by this method. The amount of glass beads applied shall by ascertained by the Engineer by observation and from information supplied by the Contractor as to quantity used.

ACOCH STATE PROJECT 22 PLAN NO. 34

621 Levout and Premarking

In accordance with 621.05 the Contractor shall "T" no-passing zones in accordance with a no-passing zone log provided by the Engineer.

847 Layout and Premarling

In addition to the requirements of 847.04, premarking for auxiliary markings shall be located from schematic forms provided by the Engineer:

Markings shall not be applied over existing markings except when applying initial permanent markings over temporary markings of fast-dry paint. Temporary markings other than fast-dry paint shall be removed and the surface prepared to the satisfaction of the Engineer before permanent markings are applied.

621 and 847 Auxiliary Payement Marking

For this project, auxiliary markings shall be defined as: Stop lines, crosswalk lines, transverse lines, railroad and school symbol markings, lane arrows, word on pavement, curb and island markings, parking lot stall markings and dotted lines except when used to extend edge lines.

847 Material Application Temperature

The Contractor shall provide a calibrated temperature sensing device which will accurately measure the temperature of the extruded thermoplastic material when it makes contact with the pavement. A temperature of 400°F to 440°F at point of application to road surface must be maintained at all times.

847 Material Application Rates

In addition to the requirements of 847 the minimum application rates shall be as follows:

Pounds Per Mile of Line	Width of Line (Inches) 4 8 12				
Solid Line	2340	4680	7020	14040	
Dashed Line	585	1170	1755	3510	

133 Pounds Per 100 Square Feet

INITIAL PAVEMENT MARKINGS FOR RESURFACED SECTIONS GENERAL NOTES

947.02 Thermoplastic Pavement Markings

Glass beads intermixed or dropped on 947.02 thermoplastic pavement marking material shall meet the following specification:

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16 20 40 50	3 b 5 t 65 0 t
Refractive Index:	1.50 to
Roundness:	80% Mi
Coating:	Adhesi

The application rate of drop-on beads shall be a uniform 25 pounds of beads for each 100 square feet of thermoplastic material surface area.

662 Reised Pavement Markers

This Contract may include sections of roadway where plowable prismatic raised pavement markers are to be installed in the pavement. Raised pavement marker placement for a resurfaced section shall begin after the permanent pavement marking for that resurfaced section is completed and dry.

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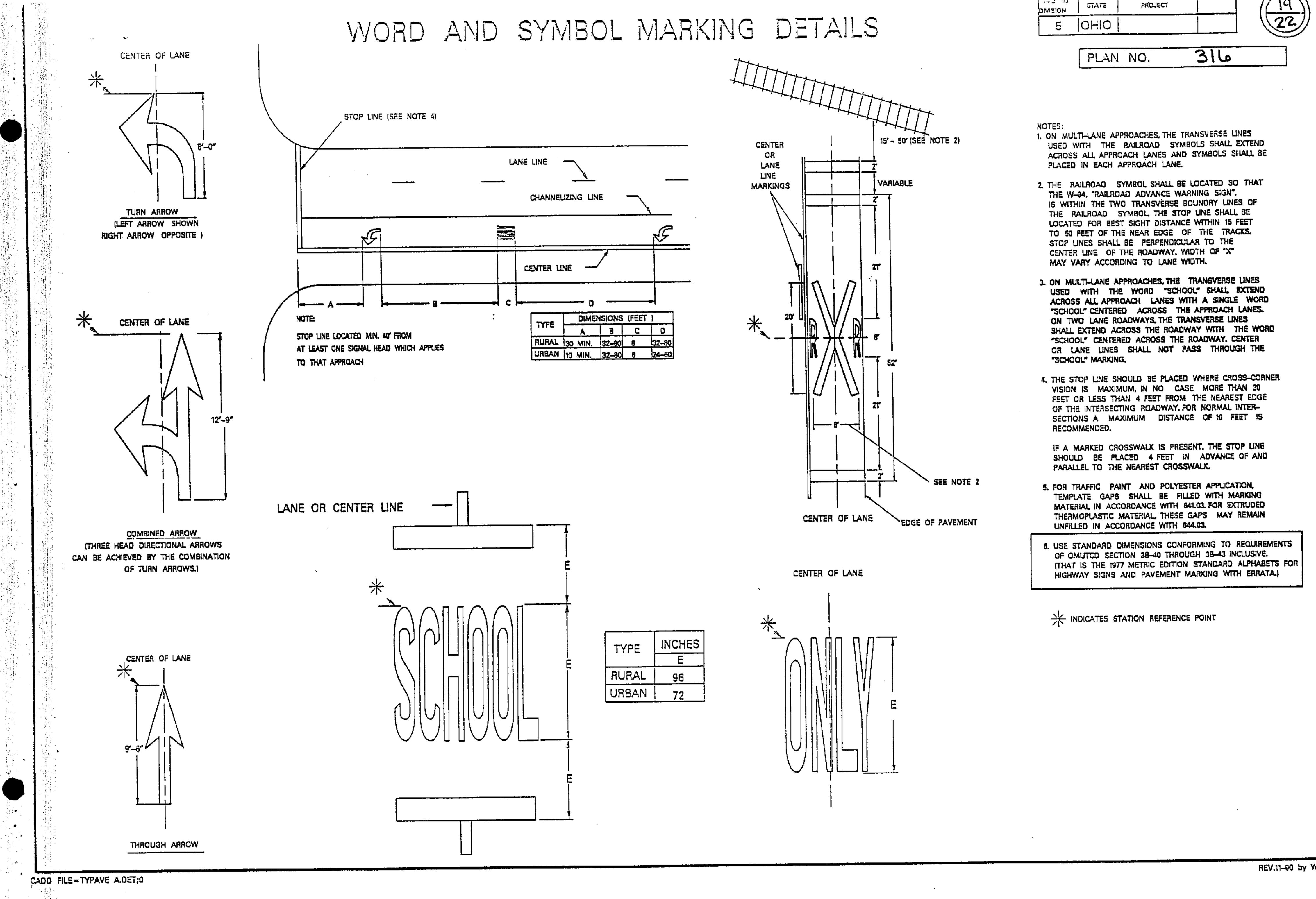
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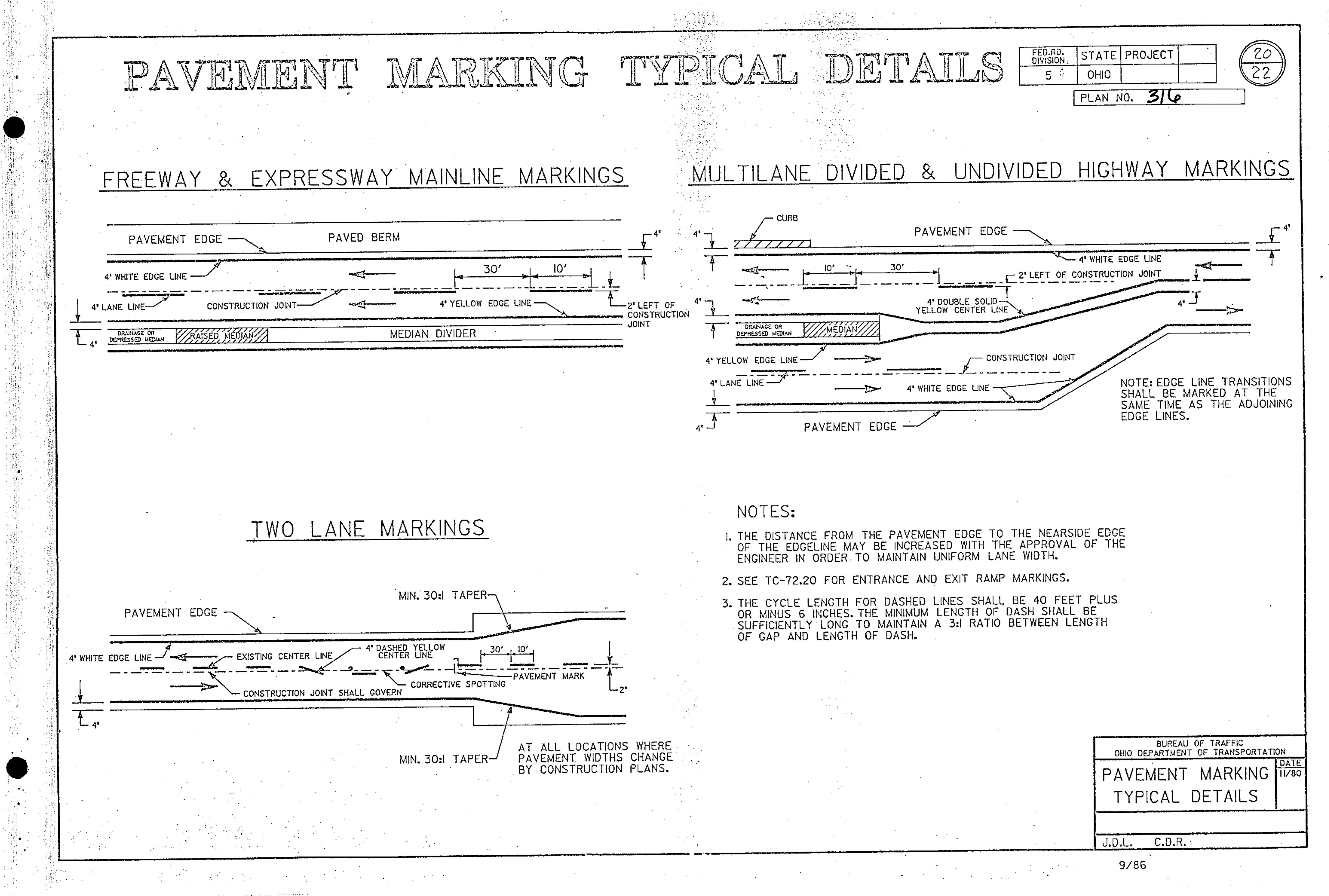
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	50	CU.YD.	Borrow, as per
	1293	STATION	Linear Grading
	150	SQ.YD.	Pavement Repai
	4300	SQ.YD.	Pavement Plani
	2888	CU.YD.	Asphalt Concre
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	1630	CU.YD.	Compacted Ag
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	12.48	Mile	Center Line
	140		t. Stop Line

FLAN NO. 316 (22)
DESCRIPTION
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aning, Bituminous 0"-1-1/2"
ncrete, AC-20, Snot Leveling
ncrete, AC-20
ncrete, AC-20 (Driveways)
using SS 924
Concrete Surfaces (FPOXY)
n Adjusted to Grade
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g Traffic
Marking Sign
Center line Class II
Aggregate, Type A
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GENERAL SUMMARY

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	GRAND TOTAL	UNIT	
	780	LIN.FT.	Crosswalk Li
	3	EACH	School Symbo
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RY	•		FLAN NO. 316 22
	GRAND TOTAL	UNIT	DESCRIPTION
<u> </u>	780	LIN.FT.	Crosswalk Line
<u></u> · <u>_</u> ·	3	EACH	School Symbol Marking, 96"
	Lump	Lump	Construction Layout Stakes
	Lump	Lump	"Mobilization
•	29000	SQ.YD.	Seeding and Mulching
	2.61	Ton	Commerical Fertilizer
	13.05	Ton	Agricultural Liming
	10	EACH	Mailbox Support
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