

OHIO TURNPIKE COMMISSION

ADDENDUM NO. 1

CONTRACT NO. 77-13-01

**THIRD LANE CONSTRUCTION
M.P. 59.52 TO M.P. 64.13
LUCAS AND WOOD COUNTIES, OHIO**

OPENING DATE: 2:00 P.M. (E.S.T.), DECEMBER 20, 2012

ATTENTION OF BIDDERS IS DIRECTED TO:

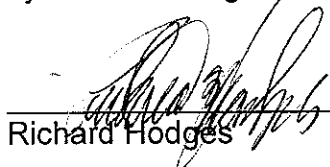
**ANSWERS TO QUESTIONS RECEIVED THROUGH
12:00 P.M., DECEMBER 10, 2012**

MODIFICATIONS TO THE BID FORM
Pages revised: OTC-BF-2

MODIFICATIONS TO THE SPECIFICATIONS
Pages revised: TOC-2, SP-283 and SP-284
Pages added: SP-256A, SP-256B, SP-256C, SP-256D, SP-256E and SP-256F

MODIFICATIONS TO THE DRAWINGS
Contract Drawings: Sheets 1, 12, 17, 42 and 118 of 322
OTC Standard Drawings: AS-1, AS-2, AS-3, AS-4, AS-5 and CB-1
ODOT Standard Drawings: BP-2.1, BP-2.2 and BS-1-93

Issued by the Ohio Turnpike Commission on December 10, 2012. Issuance authorized by Richard Hodges, Executive Director and Kathleen Weiss, General Counsel.

 12/10/12
Richard Hodges Date

 12/10/12
Kathleen Weiss Date

**OHIO TURNPIKE COMMISSION
ADDENDUM NO. 1
CONTRACT NO. 77-13-01**

ANSWERS TO QUESTIONS RECEIVED THROUGH 12:00 P.M., DECEMBER 10, 2012

Q#1 Plan sheet 8 shows shoulder details requiring a saw cut per 203.04e where new asphalt meets existing but there is no pay item. Should there be a separate pay item for this, or is this considered an "incidental" cost?

A#1 *Saw cutting is an incidental cost in accordance with 203.04(E) of the ODOT CMS, and no separate pay items shall be included.*

Q#2 Due to the complexity of the bid items for the above named project bidding on the 20th, I was hoping you would consider forwarding the excel file for the bid items so that I may import it into our bidding software rather than have to manually enter this. Please advise.

A#2 *Yes, the Bid Form in an electronic spreadsheet will be e-mailed in response to requests received by Commission's Procurement Manager at kevin.golick@ohioturnpike.org.*

Q#3 SP 115 Railroad Protective Liability Insurance and details provided in SP 827B (Norfolk-Southern) and SP 827D (CSX) does not include all information for the insurance carriers to quote the premium for the insurance required. Please provide the following additional information for both the Norfolk-Southern and CSX Railroads: Number of passenger trains per day. Max authorized operating speed of passenger trains (MPH). Number of freight trains per day. Max authorized operating speed of freight trains (MPH).

A#3 *The Commission is endeavoring to obtain this information and will provide the answer with Addendum No. 2.*

Q#4 SP 622 Portable Concrete Barrier. Are portable concrete barriers owned by the Commission currently stored at various interchanges available for use by the Contractor? (yes or no). If yes, please specify locations and quantities available.

A#4 *No. Commission owned portable concrete barriers are not available for the Contractor's use in this Project.*

Q#5 Is Zoneguard portable steel barrier an approved barrier type? (yes or no)

A#5 A portable steel barrier system specification has been added via this Addendum No. 1 to the "Material" section of the "SP 622 – Concrete Portable Barrier" Special Provision.

Q#6 SP 104 Access to Turnpike and Restrictions states no work shall be permitted on the railroad bridges at MP 61.5 (NS RR) and MP 63.5 (CSX RR) until agreements by the Commission are finalized with an anticipated agreement date of November 2, 2013. At MP 61.5 (plan sheet 263) may bridge work proceed prior to the agreement in areas not adjacent to the NS RR? (Specifically, no work on piers 1 & 2 until an agreement on or about November 2, 2013 BUT proceeds with abutments and piers 3 & 4 outside the NS RR limits in Phase 2 construction (2013).

A#6 Any Work within, or that requires access to, a railroad right-of-way shall not begin until the necessary railroad agreements are finalized with the Commission and all required submittals for both railroads and the Commission are approved.

Q#7 Similarly, at MP 63.5 (plan sheet 290) may work proceed in Phase 2 construction (2013) on abutments outside the CSX limits prior to the agreement?

A#7 See the response to Q#6.

Q#8 Regarding the above referenced project, in order to get a quote for the Railroad Protective Insurance, I need the following information for each railroad. Number of Trains per day, Passenger ?, Freight ?, Unscheduled ? and Scheduled ? I need this information for both Norfolk Southern and CSX Railroad.

A#8 See the response to Q#3.

Q#9 The notes on page 12 regarding the Concrete Barrier, Type B-50 & Type C-50 give two different methods for curing the barrier wall. The Type B-50 calls for a clear cure/sealing compound while the Type C-50 calls for curing per 511.17, Method B (membrane curing). In addition OTC Standard Drawing CBR-3 calls for concrete surfaces to receive a masonry coat paid in accordance with SP 536A (see note 10). Please clarify what curing method is required and whether the masonry coat will used. Currently the

only quantity of masonry coat setup in the bid is limited to the Median Wall, 2 ft & 4 ft (see bid item #31).

A#9 All concrete barrier surfaces shall be cured using the SP 536A, Masonry Coating in accordance with the manufacturer's recommendations. With this Addendum No. 1, the SP 536A – Masonry Coating Specification has been added to the Special Provisions, a note has been added to the Plan's General Notes, and a quantity has been added to the Plan's General Summary and to the Bid Form.

Q#10 The EB & WB bridges over the Maumee River have already been widened. Currently, portable concrete barrier is in place on each bridge closing off the inside third lane. Can this portable concrete barrier remain and be used by the contractor in the MOT phasing? (yes or no) If yes, what is to be done with this portable concrete barrier upon completion of the project? If no, what is to be done with this portable concrete barrier during the project?

*A#10 No, the existing portable barrier over the Maumee River Bridge may not be used during this Project. The Commission will remove the concrete barrier from the project site at the Contractor's request. The Contractor will need to then place its portable concrete barrier as needed, once the existing concrete barrier is removed. The "for information purposes only" quantity of Item 622 - Portable Concrete Barrier on Sheet 17 of 322 has been revised to **10.72** miles via this Addendum No. 1.*

Q#11 Maintenance of Traffic plan sheets 32, 32A, 33 and 34 show details for an optional winter phase. These sheets show Item 615 Temporary Pavement, Class B and Item 615 Temporary Roads. There is no pay item in the proposal for this work. Please add these items of work or explain how this is to be paid for.

A#11 Should the Contractor decide to use the optional winter phase in order to gain access to a bridge or bridges during the winter of 2013-2014, then the additional Maintenance of Traffic Work will be required, including all temporary pavement and access, which shall be incidental to item 614 – Maintaining Traffic

Q#12 Will the contractor be required to follow ODOT Spec 451.12 and 451.13 from the ODOT CMS book which requires smoothness testing and grinding for corrections on the 10" Reinforced Concrete Pavement Item?

A#12 Yes.

Q#13 The special provisions (SP 115) do not include railroad train traffic information for either NSRR or CSX. Please provide the following information in order that we can obtain quotes for the Railroad Protective Insurance Coverages (bid items 584 and 585): 1. Are passenger trains on the track? 2. How many trains / day? 3. What is the average speed of the trains?

A#13 See the response to Q#3.

Q#14 Will 702.13 rubberized asphalt emulsion (tack coat) be required over the new concrete base pavement?

A#14 Yes, tack coat conforming to SP 407 shall be required over concrete base pavement per the Plans and the Specifications.

Q#15 During Phase 1 construction, will the contractor be allowed to operate equipment / trucks in the driving lane (without a buffer lane)?

A#15 During the shoulder reconditioning process, the Contractor shall move traffic into the existing passing lane while utilizing a driving lane closure. This closure shall be implemented per OTC Standards Drawings, and the shoulder reconditioning Work will be performed using this closure. The lane closure shall be removed and reset each day, and the elevation difference between the driving lane and the shoulder Work shall not exceed three (3) inches. The closed driving (right) lane shall serve as a buffer between the traveling lane and the Work locations. The Contractor may use the driving lane to transport men, equipment, and materials as necessary.

Q#16 During Phase 1 construction, will grinding and paving trucks below allowed to ingress/egress into the closed zone at the point of milling / paving operations OR will the ingress be at the beginning of the zone closure and egress at the end of the zone closures?

A#16 Ingress and egress locations can be located where requested by the Contractor, but the approval is always at the discretion of the Chief Engineer. These ingress and egress locations shall be in accordance with OTC Standard Drawings, which require the use of flaggers at each location.

Q#17 According to Note #8 on CBR-3, 2.5 ft will be deducted from the barrier wall quantity and paid under with each junction box. MCC-1 & MCC-2 then

show 12 ft of barrier wall between expansion joints for 2 junction boxes (staggered at 8 ft) or 4 ft of barrier wall for 1 junction box. Please clarify how much barrier wall will be deducted at each junction box.

A#17 The Commission will provide the answer with Addendum No. 2.

Q#18 Bid Item 77- Class C Concrete, Miscellaneous: there is no plan detail, what is the purpose for the multiple locations of this item in the drainage quantities?

A#18 The Commission will provide the answer with Addendum No. 2.

Q#19 Can you please post the excel spreadsheet for the bid items on this project? Thanks.

A#19 See answer to Q#2.

Q#20 I see this is designated with "13", does that not make it a 2013 project? Can you delay this project until 2013?

A#20 The Commission will provide the answer with Addendum No. 2.

Q#21 Would OTC please provide a bid excel spreadsheet in lieu of requiring the contractor to ink in all the bid items?

A#21 See response to Q#2. A new bid form is provided with this Addendum No. 1.

Q#22 Will the OTC allow batch plants to be setup on any of their property within or outside of the work limits for this project (interchange areas for example)?

A#22 The Commission will provide the answer with Addendum No. 2.

MODIFICATIONS VIA ADDENDUM NO. 1 TO THE CONTRACT DOCUMENTS FOR CONTRACT NO. 77-13-01

The following changes are made to the Contract Documents for Contract No. 77-13-01:

(BIDDERS ARE ADVISED TO UTILIZE THE ATTACHED REPLACEMENT PAGES AND PLAN SHEETS).

MODIFICATIONS TO THE BID FORM

Deletions are shown with ~~strikethrough~~ text.

Changes/Additions are shown with ***bold italicized*** text.

Page OTC-BF-2

The Item No. ~~SP-536~~ associated with Bid Ref. No. 34, ~~CONCRETE WEATHERPROOFING, MEDIAN WALL~~, approx. quantity 2990, on the Bid Form has been deleted and replaced with ***Ref. No. 31A SP536A MASONRY COATING***, with an approximate quantity of ***31,489 SQ.YDS***.

MODIFICATIONS TO THE SPECIAL PROVISIONS

Deletions are shown with ~~strikethrough~~ text.

Changes/Additions are shown with ***bold italicized*** text.

Page Table of Contents 2 of 4:

Add new Specification: ***SP 536A – MASONRY COATING, Pages 256A-256F.***

Pages SP-256A through SP-256F:

A new Special Provision "***SP 536A – MASONRY COATING***" was added to the Contract Documents as new Pages ***256A, 256B, 256C, 256D, 256E and 256F.***

Pages SP-283 and SP-284

SP 622 PORTABLE CONCRETE BARRIER: Section B entitled "Material" is revised as follows:

B. Materials

~~Portable concrete barrier shall be as specified in Section 622.02 of the Specifications.~~

Portable Concrete Barrier Option 1: Portable concrete barrier in accordance with this section, ODOT CMS 622 Portable Concrete Barrier and ODOT Standard Drawings RM-4.3 32" Portable Concrete Barrier.

Portable Concrete Barrier Option 2: A portable steel barrier system comprised of nominally eight (8) gauge thick ASTM A36 pressed steel panels, galvanized prior to assembly. Barrier sections shall be 50 feet long and 32 inches in overall height. Base width shall be a minimum of 2.3 feet and a top width of 6.25 inches. The barrier shall have a mountable foot section and have rubber feet fastened to the sections at 4 foot intervals. A lifting system shall be incorporated into the sections. Installation of the sections shall not impede drainage. Each section shall be anchored to the pavement at a minimum of two points. Portable steel barrier shall meet the requirements of NCHRP Report 350 Test Level 3 (TL3) and Test Level 4 (TL4).

MODIFICATIONS TO THE PLAN DRAWINGS

Modifications to the Plan Drawings

Deletions in Plan Notes are shown with ~~strikethrough~~ text.

Changes/Additions in the Plan Notes are shown with ***bold italicized*** text.

Additions and deletions on Plan Drawings are indicated with a cloud and revision triangle thus:



Plan Sheet 1 of 322

The OHIO TURNPIKE COMMISSION STANDARD DRAWINGS table was revised as follows:

AS-1	01-24-11 <i>11-20-12</i>
AS-2	01-24-11 <i>11-20-12</i>
AS-3	01-24-11 <i>11-20-12</i>
AS-4	01-24-11 <i>11-20-12</i>
AS-5	01-24-11 <i>11-20-12</i>
RPM-1	06-25-07 <i>12-21-11</i>
TCR-2	06-25-07 <i>12-21-11</i>

The OHIO DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS table was revised as follows:

TC-22.10	01-19-07 <i>01-19-01</i>
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The following General Note was added:

SP 536A, MASONRY COATING

ALL EXPOSED CONCRETE BARRIER SURFACES SHALL RECEIVE A COATING PER SP 536A. THE MASONRY COATING SHALL ALSO BE USED AS THE CURE COAT. THE FINAL APPEARANCE SHALL BE UNIFORM AND CONSISTENT, AND SHALL CONFORM TO ALL PROVISIONS IN SP 536A. NO ADDITIONAL PAYMENT SHALL BE MADE IF THE CONTRACTOR IS REQUIRED TO APPLY ADDITIONAL COATINGS TO ACHIEVE A UNIFORM APPEARANCE. THE MATERIAL SHALL BE APPLIED PER THE MANUFACTURER'S RECOMMENDATIONS. ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR SP 536A, MASONRY COATING. THE FOLLOWING QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR SP536A, MASONRY COATING:

SP 536A, MASONRY COATING

31,489 SQ.YD.

The following General Notes were revised to state as follows:

ITEM 622 - CONCRETE BARRIER, TYPE B-50, AS PER PLAN

ITEM 622 - CONCRETE BARRIER, TYPE B-50, AS PER PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH OTC STANDARD DRAWING CBR-3 AND CMS 622.

IN LIEU OF THE CURING COMPOUNDS SPECIFIED IN SECTION 622.07 OF THE SPECIFICATIONS, THE CONCRETE BARRIER SHALL BE CURED USING THE MATERIAL SPECIFIED IN SP 536A. THE SP 536A MATERIAL APPLICATION SHALL BE AS PER THE RECOMMENDATIONS OF THE MANUFACTURER. THE CONTRACTOR SHALL SUBMIT TECHNICAL DATA FOR THE SP 536A MATERIAL TO THE ENGINEER FOR APPROVAL. THE COST OF CURING THE WALL AND BARRIER SHALL BE INCLUDED IN THE BID PRICE FOR SP 536A, MASONRY COATING. ALL OTHER PROVISIONS OF SECTION 622 OF THE SPECIFICATIONS SHALL APPLY.

ITEM 622 - CONCRETE BARRIER, TYPE C-50, AS PER PLAN

ITEM 622 - CONCRETE BARRIER, TYPE C-50, AS PER PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH OTC STANDARD DRAWING CBR-3, AND SECTION 622 OF THE SPECIFICATIONS.

IN LIEU OF THE CURING COMPOUNDS SPECIFIED IN SECTION 622.07 OF THE SPECIFICATIONS, THE CONCRETE BARRIER SHALL BE CURED USING THE MATERIAL SPECIFIED IN SP 536A. THE SP 536A MATERIAL APPLICATION SHALL BE AS PER THE RECOMMENDATIONS OF THE MANUFACTURER. THE CONTRACTOR SHALL SUBMIT TECHNICAL DATA FOR THE SP 536A MATERIAL TO THE ENGINEER FOR APPROVAL. THE COST OF CURING THE WALL AND BARRIER SHALL BE INCLUDED IN THE BID PRICE FOR SP 536A, MASONRY COATING. ALL OTHER PROVISIONS OF SECTION 622 OF THE SPECIFICATIONS SHALL APPLY.

ITEM 622 - CONCRETE BARRIER, TYPE D, AS PER PLAN

ITEM 622 - CONCRETE BARRIER, TYPE D, AS PER PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH OTC STANDARD DRAWING CBR-3, AND SECTION 622 OF THE SPECIFICATIONS.

IN LIEU OF THE CURING COMPOUNDS SPECIFIED IN SECTION 622.07 OF THE SPECIFICATIONS, THE CONCRETE BARRIER SHALL BE CURED USING THE MATERIAL SPECIFIED IN SP 536A. THE SP 536A MATERIAL APPLICATION SHALL BE AS PER THE RECOMMENDATIONS OF THE MANUFACTURER. THE CONTRACTOR SHALL SUBMIT TECHNICAL DATA FOR THE SP 536A MATERIAL TO THE ENGINEER FOR APPROVAL. THE COST OF CURING THE WALL AND BARRIER SHALL BE INCLUDED IN THE BID PRICE FOR SP 536A, MASONRY COATING. ALL OTHER PROVISIONS OF SECTION 622 OF THE SPECIFICATIONS SHALL APPLY.

THE COST OF THE BARRIER TRANSITION SHALL BE INCIDENTAL TO ITEM 622 - CONCRETE BARRIER, TYPE D, AS PER PLAN. THE BARRIER TRANSITION SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL SHEET 195B. PAYMENT FOR ALL MATERIALS AND LABOR SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 622 - CONCRETE BARRIER, TYPE D, AS PER PLAN.

Plan Sheet 17 of 322:

The Quantity for Item 622, Concrete Barrier Delineator, Phase 2, MP 59.28 to MP 64 36 EB have been revised from 2493 to **2682** Each.

The Quantity for Item 622, Temporary Concrete Barrier, Phase 2, MP 59.28 to MP 64.36 EB have been revised from 4.72 to **5.08** Miles.

The Quantity for Item 622, Concrete Barrier Delineator, Phase 2, MP 59.24 to MP 64.88 WB have been revised from 2464 to **2978** Each.

The Quantity for Item 622, Temporary Concrete Barrier, Phase 2, MP 59.24 to MP 64.88 WB have been revised to from 4.66 to **5.64** Miles

The Total Quantity for Item SP 622, Concrete Barrier Delineator, is modified from 4,954 to **5,660** Each.

The Total Quantity for Item SP 622, Portable Concrete Barrier, is modified from 9.38 to **10.72** Miles.

Plan Sheet 42 of 322

The following General Summary item has been revised:

~~SP 536, WEATHERPROOFING MEDIAN WALL, 2990 SQ.YD.~~ was deleted and replaced with **SP 536A, MASONRY COATING, 31,489 SQ.YD.**

Plan Sheet 118 of 322

~~SP 536, WEATHERPROOFING MEDIAN WALL~~ has been deleted from the Sub-Summary for Median Walls table.

SUBSTITUTIONS OF OTC STANDARD DRAWINGS

The OTC Standard Drawing AS-1 shall be replaced with new OTC Standard Drawing AS-1 (dated NOVEMBER 20, 2012).

The OTC Standard Drawing AS-2 shall be replaced with new OTC Standard Drawing AS-2 (dated NOVEMBER 20, 2012).

The OTC Standard Drawing AS-3 shall be replaced with new OTC Standard Drawing AS-3 (dated NOVEMBER 20, 2012).

The OTC Standard Drawing AS-4 shall be replaced with new OTC Standard Drawing AS-4 (dated NOVEMBER 20, 2012)

The OTC Standard Drawing AS-5 shall be replaced with new OTC Standard Drawing AS-5 (dated NOVEMBER 20, 2012).

The OTC Standard Drawing CB-1 shall be replaced with new OTC Standard Drawing CB-1 (marked REVISED FOR ADDEDUM NO. 1 DATED: 12-10-2012).

SUBSTITUTIONS OF ODOT STANDARD DRAWINGS

The ODOT Standard Drawing BP-2.1 shall be replaced with new ODOT Standard Drawing BP-2.1 (dated 7-18-08).

The ODOT Standard Drawing BP-2.2 shall be replaced with new ODOT Standard Drawing BP-2.2 (dated 7-18-08).

The ODOT Standard Drawing BS-1-93 shall be replaced with new ODOT Standard Drawing BS-1-93 (dated 12-19-94).

ATTACHMENTS:

Bid Form Page OTC-BF-2

Special Provisions Table of Contents Page 2 of 4

Special Provisions Pages SP-256A, SP-256B, SP-256C, SP-256D, SP-256E, SP-256F, SP-283 and SP-284

Plan Sheets Pages 1, 12, 17, 42 and 118 of 322

OTC Standard Drawings AS-1, AS-2, AS-3, AS-4, AS-5 and CB-1

ODOT Standard Drawings BP-2.1, BP-2.2 and BS-1-93

Receipt of Addendum No. 1 to Contract
No. 77-13-01 is hereby acknowledged:

(Firm Name)

(Signature)

(Printed Name)

Date: _____

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BID FORM CONTRACT NO. 77-13-01

Ref. No.	Item No.	Item Description	Approx. Quantity	Unit	Unit Cost	Extended Bid Amount
		ROADWAY (Ref. Nos. 1 - 55)	LUMP SUM	-		
1	SP 201	CLEARING AND GRUBBING, AS PER PLAN	608	LIN. FT.		
2	202	CONCRETE BARRIER REMOVED	3,079	LIN. FT.		
3	202	PIPE REMOVED, 24" AND UNDER	38	EACH		
4	202	GUARD POST REMOVED	16	EACH		
5	202	HEADWALL REMOVED	45	EACH		
6	202	CATCH BASIN REMOVED	12	LIN. FT.		
7	202	PIPE REMOVED OVER 24"	190	LIN. FT.		
8	202	FENCE REMOVED FOR REUSE	12,273	LIN. FT.		
9	202	GUARDRAIL REMOVED	125	LIN. FT.		
10	202	GUARDRAIL REMOVED FOR STORAGE	9,456	LIN. FT.		
11	202	GUARDRAIL REMOVED FOR REUSE	1,116	LIN. FT.		
12	202	FENCE REMOVED	300	SQ. FT.		
13	202	WALK REMOVED	110	LIN. FT.		
14	202	CURB AND GUTTER REMOVED	19	EACH		
15	202	ANCHOR ASSEMBLY REMOVED, TYPE T	2	EACH		
16	202	ANCHOR ASSEMBLY REMOVED FOR STORAGE	10	CU. YD.		
17	SP 202B	3 CORNER CRACK REPAIR, USING ITEM SP402	555	LIN. FT.		
18	SP 202J	PLUG AND FILL EXISTING CONDUIT	24	EACH		
19	SP 202K	ANCHOR ASSEMBLY, SYRO STEEL ET-2000, REMOVED FOR STORAGE	2	EACH		
20	SP 202L	ANCHOR ASSEMBLY, SYRO STEEL ET-2000, REMOVED AND RESET	62,860	CU. YD.		
21	203	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION	37,569	CU. YD.		
22	203	EMBANKMENT	44	HOUR		
23	204	PROOF ROLLING	140,456	SQ. YD.		
24	204	SUBGRADE COMPACTION	4,881	LIN. FT.		
25	209	DITCH CLEANOUT, AS PER PLAN	66,000	SQ. YD.		
26	SP 205	LIME MODIFIED SUBGRADE	66,000	SQ. YD.		
27	SP 205	CEMENT MODIFIED SUBGRADE	3,300	TON		
28	SP 205	LIME	4,125	TON		
29	SP 205	CEMENT	100	M. GAL.		
30	SP 205	WATER	2990	SQ. YD.		
31	SP 536A	CONCRETE WEATHERPROOFING, MEDIAN WALL - MASONRY COATING	27	EACH		
32	604	MONUMENT ASSEMBLY	5	EACH		
33	606	ANCHOR ASSEMBLY, TYPE T	24	EACH		
34	606	BRIDGE TERMINAL ASSEMBLY, TYPE 1, USING STEEL POSTS	1	EACH		
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SP 952	NON-SHRINK, NON-METALLIC EPOXY GROUT	SP-341

SPECIAL PROVISIONS

SP 536A

MASONRY COATING

(10 /12)

A. Description

This Item shall consist of the necessary labor, materials and equipment to clean, prepare and treat Portland cement concrete surfaces, as specified in the Plans or as directed by the Chief Engineer, in accordance with these Specifications as described herein.

B. Materials

The materials shall be Tex-Cote XL-70 Bridge Cote with Silane, manufactured by Textured Coatings of America, Texture DOT with Silane manufactured by Chemmasters, or approved equal and shall be a commercial product designed specifically for coating concrete and shall be suitable for application on damp, uncured concrete and/or cured concrete. The color of the applied masonry coating shall be in accordance with Federal Color Standard No 595 and shall be "Color #36622, Light Gray" or as approved by the Chief Engineer

C. Material Tests and Certification

Prior to the application of any material, the Chief Engineer shall be provided certification confirming that the commercial product furnished is in accordance with the same formula as that previously subjected to tests specified below and approved. Copies of the current test reports shall be attached to the certification. Reports for tests made more than four (4) years prior to the shipment to the Contract will not be accepted. All testing shall be performed by a qualified, commercial testing laboratory, acceptable to the Commission.

The applied finish coat shall be subjected to and shall satisfy the requirements of the tests listed below, prior to the use on this project.

1 FREEZE-THAW TESTS

The applied finish coating shall be subjected to freeze thaw cycle tests as follows:

- a. Three (3) concrete specimens, not less than four inches (4") by six inches (6"), of the mix design for the structure shall be cast and cured Fourteen (14) days moist curing with a drying period at room temperature, sixty degrees (60°) F to eighty degrees (80°) F, for twenty-four (24) hours will be required before the specimens are coated with the applied finish. Caution shall be taken that there be no excessive oil on specimen forms. The finish coating shall be applied to the sides of specimens at a spreading rate of fifty (50) $\pm$ ten (10) square feet per gallon. Brush application will be permitted. Cementitious coatings shall be cured at room temperature and thirty (30) percent relative humidity for twenty-four (24) hours, at room temperature and ninety (90) percent relative humidity for forty-eight (48) hours, and at room temperature and fifty (50) percent relative humidity for four (4) days for a total curing time of seven (7) days. Other coatings shall be cured at room temperature for forty (48) hours after the completion of curing

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- b The specimens shall be immersed in water at room temperature for three (3) hours, and then removed
- c The specimens shall be placed in cold storage at negative fifteen degrees (15°) F for one (1) hour, and then removed
- d The specimens shall be thawed at room temperature for one (1) hour
- e Steps c and d shall be repeated for a total of 250 cycles. At the end of 250 cycles, the specimens shall show no visible defects

2 ACCELERATED WEATHERING

The applied finish coating shall be subjected to a 7,500 hour exposure test in a Twin-Carbon-Arc-Weatherometer, ASTM G 23, Type D, at an operating temperature of 145 degrees F. The test shall be made at twenty (20) minute cycles consisting of seventeen (17) minutes of light and three (3) minutes of water spray plus light. At the end of the exposure test, the exposed samples shall show no chipping, flaking, or peeling. The panels for this test shall be prepared by applying the coating at a spreading rate of fifty (50) + ten (10) square feet per gallon to both sides and edges of panels cut from asbestos cement shingles in accordance with Federal Specifications SS-S-346, Type I. Curing time shall be in accordance with Section 1.a.

3 FUNGUS GROWTH RESISTANCE

The applied finish coating to be used shall pass a fungus resistance test in accordance with Federal Specification TT-29g. Fungus growth shall be indicated after a minimum incubation period of twenty-one (21) days.

4 ABRASION RESISTANCE

The applied finish coating to be used shall pass the 2,000 liter sand abrasion test in accordance with Method 6191 Abrasion Resistance — Falling Sand, Federal Test Method Standard 141a, ASTM D968-81. The specimens for this test shall be prepared by applying the coating to a cleaned steel panel at a spread rate of fifty (50) + ten (10) square feet per gallon. The specimens shall be cured at room temperature for twenty-one (21) days.

5 IMPACT RESISTANCE

The finish coating shall be applied to a concrete panel prepared according to Federal Test Method Standard 141a, Method 2051, at a spreading rate of fifty (50) + ten (10) square feet per gallon, and allowed to cure for twenty-one (21) days at room temperature. The test shall be run using the Gardner Mandrel Impact Tester in accordance with ASTM D 2794 using a one-half inch (1/2") indenter load of twenty-four (24) inch-pounds. The coating shall show no chipping under this impact load.

6 SALT-SPRAY RESISTANCE TEST

A concrete specimen shall be coated at the rate of one (1) gallon per fifty (50) + ten (10) square feet and cured for twenty-one (21) days at room temperature. The coated specimen shall be exposed to a five (5) percent salt solution in accordance with ASTM B117 for 2,500 hours.

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where the atmospheric temperature is maintained at ninety degrees (90°) F + two degrees (2°) F. At the end of 2,500 hours of exposure, the coating shall show no ill effects, loss of adhesion, or deterioration.

7 FLEXIBILITY TEST

A sheet metal specimen shall be coated with the applied finish coating at a rate of one (1) gallon per forty-five (45) square feet + ten (10) percent and allowed to cure for forty-eight (48) hours at room temperature. The coated specimen shall be bent 180 degrees over a one inch (1") round mandrel. After bending, the coating shall show no breaking.

In addition to the certification and test reports required above, a service record shall be supplied showing that the finish coating material has a satisfactory service record on concrete surfaces for a period of not less than five (5) years prior to the date of submission of the service record. The finish coating shall also have shown satisfactory service characteristics without peeling, chipping, flaking, and non-uniform change in texture or color. A specific structure for the specific product shall be named for the service record. In addition to the above requirements, the manufacturer shall submit, for each batch of material used, the following product analysis data:

- a. Weight per gallon.
- b. Viscosity in Krebs units.
- c. Weight percent pigment.
- d. Weight percent vehicle solids.
- e. Infrared spectra of vehicle solution.

D. Manufacturer's Representative

The Contractor shall give the manufacturer's technical representative notice of the intended date of application. The Contractor shall have the manufacturer's representative present during the testing and initial installation.

E. Surface Condition and Preparation

1. Surface preparation prior to the application of an applied finish coating shall consist of a general surface finish in accordance with the specified requirements. Cavities, which require grout filling, shall have been filled prior to coating application. Air pockets that are one-quarter inch (1/4") in width and depth or less need not be grouted prior to application of the finishing coat. Air pockets that are larger than one-quarter inch (1/4") in width and depth shall be filled with grout consisting of one (1) part Portland cement, two (2) parts screened and washed sand graded to pass the sixteen (16) mesh sieve with no more than five (5)% retained on the thirty (30) mesh sieve and sufficient water to produce a thick liquid mix, or by the use of a grout composed of the same materials used for the applied finish coating. The grout shall be applied filling the air pockets by using burlap pads, float sponges or other acceptable methods. As soon as the grout has taken its initial set, the surface shall be brushed to remove all loose grout, leaving the surface smooth and free of any air holes.
2. Surfaces to which coatings are to be applied shall be free from efflorescence, flaking coatings, dust, dirt, oil, wax, curing compounds, laitance, foreign materials, deleterious substances and shall be

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structurally sound. Weak sections and spalled areas shall have been repaired before application of the coating. Curing compound and form release agent must be removed and may require light sandblast or waterblast at a minimum 2,500 p s i or greater.

3. The use of chemicals and other cleaning compounds to facilitate the removal of these foreign materials shall be approved by the coating manufacturer or its representative before use.
4. Prior to the application of the finish coating, the surfaces shall have been prepared in accordance with the manufacturer's recommendations and shall be in a condition consistent with the manufacturer's requirements.

F. Test Application

Prior to the final application, the Contractor shall apply masonry coating to measured test coverage areas on horizontal and vertical surfaces of the different components of the structure to be coated for the purpose of demonstrating the desired physical and visual effect of masonry coating application necessary to achieve the specified coverage rate as per the manufacturer's recommendations. In the latter case, the applicator shall use at least one-half (1/2) gallon of masonry coating following the manufacturer's recommended method of application for the total of the test surfaces.

G. Application

1. The application, including equipment used, shall be in accordance with the manufacturer's recommendations. The material shall be applied by qualified personnel experienced in the Work.
2. When used as a curing compound, curing shall be performed in accordance with Section 511 17 Method (B) of the Specifications and at an application rate specified by the manufacturer to achieve an adequate curing membrane, uniform appearance, texture and color, as approved by the Chief Engineer.
3. The coating material shall have a shelf life of not less than twelve (12) months. The material shall be delivered to the job site in sealed containers bearing the manufacturer's original labels. The brand, color and type shall be clearly marked on each container. A copy of the manufacturer's printed instructions shall be provided to the Chief Engineer.
4. The coating material shall be stored prior to surface preparation and application of the material in airtight, upright containers. The containers shall be stored in a dry location where the temperature is above forty degrees (40°) F and less than 100 degrees F.
5. The material shall be thoroughly mixed in its original container. If skins have formed, they shall be removed prior to mixing the material. The material shall not be thinned.
6. The material shall be applied at a uniform film thickness at a rate of fifty (50) + ten (10) square feet per gallon. The application rate shall be sufficient enough to produce a uniform color and texture.

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- 7 The material shall be applied only when the ambient temperature is between forty degrees (40°) F and rising, 100 degrees F
- 8 The material shall be capable of being applied on damp, but not wet concrete surfaces. The material shall not be applied over frozen surfaces or if rain is imminent. Should rain occur on a freshly applied surface, re-coating may be necessary, at the Chief Engineer's discretion
- 9 Every attempt should be made to schedule the application of the masonry coating as one (1) of the final operations to minimize construction-generated dust
- 10 To prevent lap marks a wet edge shall be maintained at all times. Stopping and starting at mid-sections shall be avoided. Every attempt shall be made to start or end at natural breaks in the surface such as at a panel edge, corner or joint. When applying the coating with a roller, the material shall be applied in vertical strokes initially, cross rolled for even film and appearance, and then finished with vertical strokes
- 11 Only one (1) coating material shall be used on an individual structure
- 12 After application, the coating shall be dry to the touch within forty-eight (48) hours and shall achieve a final cure within two (2) to three (3) weeks under ideal conditions

H Finish Product and Appearance

The coating material in the finished state shall be capable of accommodating the thermal and elastic expansion ranges of the substrate without cracking.

The texture of the completed finish coat shall be generally similar to that of rubbed concrete. The completed finished coating shall be tightly bonded to the structure and present a uniform appearance and texture. If necessary, additional coats shall be applied to produce the desired surface texture uniformity.

Coatings shall be entirely removed from the structure upon its failure to positively adhere without chipping, flaking or peeling, or attaining the desired surface appearance. The finish coating shall be reapplied after proper surface preparation until the desired finish product is achieved. The average thickness of the completed finish coating shall not exceed 1/8 of an inch.

I Precautions

Precautions shall be followed as indicated on the manufacturer's MSDS

J Protection of Adjoining Surfaces and The Public

When applying a masonry coating, the Contractor shall protect, by masking off or by other means, adjoining surfaces of the structure, which are not to be coated. The Contractor shall also make provisions to protect the public when applying masonry coating to the fascia of a bridge and/or any portions of the structure directly adjacent to the traveling public. The Contractor shall also ensure that when using spraying as an application method that all overspray is contained within the operation itself and does in no way cause exposure to the traveling public.

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K. Environmental Requirements

Protect plants and vegetation from overspray by covering with drop cloths

L. Measurement of Payment

Only those measurements necessary to verify application rates will be made. Payment shall be based on the actual area in square yards of the coated surface and shall include surface preparation, material, application costs and necessary labor and incidentals for the Work

Payment shall be made under:

<u>Item</u>	<u>Unit</u>	<u>Description</u>
SP 536A	Sq. Yd	Masonry Coating

SPECIAL PROVISIONS

SP 622

PORTABLE CONCRETE BARRIER

(11-21-12)

A. Description

This Item shall consist of furnishing, installing and resetting as required, portable concrete barrier and for maintaining traffic in accordance with this Special Provision and as shown on the Plans. All applicable provisions of Section 622 of the Specifications, SP 104 – Access to Turnpike and Restrictions and SP 614 – Maintaining Traffic, of these Special Provisions shall apply.

This Item shall also include maintaining, moving, transporting and storing of the portable barriers for the duration of the Contract. Upon completion of the Contract, the barriers shall remain the property of the Contractor and shall be removed from the Turnpike right-of-way.

Portable concrete barriers furnished shall be in accordance with ODOT Standard Drawing RM-4.2, or other shape approved by the Chief Engineer. Bridge mounted portable barrier shall be in accordance with ODOT Standard Drawing PCB-91. The barrier must be NCHRP 350, Test Level 3 compliant.

The portable barrier shall have new barrier delineators attached to the traffic side of the barrier at one (1) per each barrier section. And the top of the delineator shall be located just below the angle of the barrier face (approximately nineteen inches (19") below the top of the barrier). The delineators shall be oriented so as to face oncoming traffic and shall be in place before the barrier is exposed to traffic. Each delineator shall be installed with a slight backward slant so that the reflective surface is exposed to rain to help keep the delineators clean. The delineators shall be attached with adhesive after the concrete barrier has been cleaned with a steel wire brush to remove loose concrete and/or dirt.

B. Materials

~~Portable concrete barrier shall be as specified in Section 622.02 of the Specifications.~~

Portable Concrete Barrier Option 1: Portable concrete barrier in accordance with this section, ODOT CMS 622 Portable Concrete Barrier and ODOT Standard Drawings RM-4.3 32" Portable Concrete Barrier.

Portable Concrete Barrier Option 2: A portable steel barrier system comprised of nominally eight (8) gauge thick ASTM A36 pressed steel panels, galvanized prior to assembly. Barrier sections shall be 50 feet long and 32 inches in overall height. Base width shall be a minimum of 2.3 feet and a top width of 6.25 inches. The barrier shall have a mountable foot section and have rubber feet fastened to the sections at 4 foot intervals. A lifting system shall be incorporated into the sections. Installation of the sections shall not impede drainage. Each section shall be anchored to the pavement at a minimum of two points. Portable steel barrier shall meet the

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requirements of NCHRP Report 350 Test Level 3 (TL3) and Test Level 4 (TL4).

Barrier delineators shall be "Astro Optics Corporation Reflective Delineators Series JD-1, Amber "

Adhesive for barrier delineators shall be "Signal Products Epoxy Adhesive" or approved equal.

C Construction Requirements

Single lane traffic zones shall be permitted on both the Eastbound and Westbound lanes during the removal and resetting of the portable concrete barrier in accordance with the provisions of SP 104 – Access to Turnpike and Restrictions.

Any portable concrete barriers damaged during the Contract shall be promptly replaced by the Contractor at no additional cost to the Commission. Damaged sections shall be disposed of in accordance with SP 105 – Disposal of Excess Materials.

Barrier delineators shall be cleaned on a monthly basis or as directed by the Chief Engineer to provide maximum effectiveness of the reflectorization

D. Method of Measurement

Portable concrete barrier shall be paid for as lump sum. The lump sum price bid shall include all barrier delineators, including replacement delineators during construction, as well as the delivery, installation, maintaining, cleaning delineators, moving, transporting, storing and re-setting, as required, of the barriers throughout the term of the Contract. Bridge mounted portable barrier shall also include providing and installing anchors, removal of the anchors, patching of the bridge deck, and weatherproofing the patch area per SP 536.

E Basis of Payment

Payment shall be made at the lump sum price bid for:

Item	Unit	Description
SP 622	Lump Sum	Portable Concrete Barrier (Furnished by Contractor)
SP 622	Lump Sum	Portable Concrete Barrier, Bridge Mounted (Furnished by Contractor)



OHIO TURNPIKE COMMISSION

THE JAMES W. SHOCKNESSY OHIO TURNPIKE

CONTRACT NO. 77-13-01
THIRD LANE CONSTRUCTION
M.P. 59.52 TO M.P. 64.13

STATION 586+50.00 TO 772+56.56, LUCAS COUNTY
STATION 0+00.00 TO 59+00.00, WOOD COUNTY

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OHIO TURNPIKE COMMISSION STANDARD DRAWINGS

AS-1	11-20-12	AS-2	06-25-07	AS-3	06-25-07	AS-4	06-25-07	AS-5	06-25-07	AS-6	06-25-07	AS-7	06-25-07	AS-8	06-25-07	AS-9	06-25-07	AS-10	06-25-07	AS-11	06-25-07	AS-12	06-25-07	AS-13	06-25-07	AS-14	06-25-07	AS-15	06-25-07	AS-16	06-25-07	AS-17	06-25-07	AS-18	06-25-07	AS-19	06-25-07	AS-20	06-25-07	AS-21	06-25-07	AS-22	06-25-07	AS-23	06-25-07	AS-24	06-25-07	AS-25	06-25-07	AS-26	06-25-07	AS-27	06-25-07	AS-28	06-25-07	AS-29	06-25-07	AS-30	06-25-07	AS-31	06-25-07	AS-32	06-25-07	AS-33	06-25-07	AS-34	06-25-07	AS-35	06-25-07	AS-36	06-25-07	AS-37	06-25-07	AS-38	06-25-07	AS-39	06-25-07	AS-40	06-25-07	AS-41	06-25-07	AS-42	06-25-07	AS-43	06-25-07	AS-44	06-25-07	AS-45	06-25-07	AS-46	06-25-07	AS-47	06-25-07	AS-48	06-25-07	AS-49	06-25-07	AS-50	06-25-07	AS-51	06-25-07	AS-52	06-25-07	AS-53	06-25-07	AS-54	06-25-07	AS-55	06-25-07	AS-56	06-25-07	AS-57	06-25-07	AS-58	06-25-07	AS-59	06-25-07	AS-60	06-25-07	AS-61	06-25-07	AS-62	06-25-07	AS-63	06-25-07	AS-64	06-25-07	AS-65	06-25-07	AS-66	06-25-07	AS-67	06-25-07	AS-68	06-25-07	AS-69	06-25-07	AS-70	06-25-07	AS-71	06-25-07	AS-72	06-25-07	AS-73	06-25-07	AS-74	06-25-07	AS-75	06-25-07	AS-76	06-25-07	AS-77	06-25-07	AS-78	06-25-07	AS-79	06-25-07	AS-80	06-25-07	AS-81	06-25-07	AS-82	06-25-07	AS-83	06-25-07	AS-84	06-25-07	AS-85	06-25-07	AS-86	06-25-07	AS-87	06-25-07	AS-88	06-25-07	AS-89	06-25-07	AS-90	06-25-07	AS-91	06-25-07	AS-92	06-25-07	AS-93	06-25-07	AS-94	06-25-07	AS-95	06-25-07	AS-96	06-25-07	AS-97	06-25-07	AS-98	06-25-07	AS-99	06-25-07	AS-100	06-25-07	AS-101	06-25-07	AS-102	06-25-07	AS-103	06-25-07	AS-104	06-25-07	AS-105	06-25-07	AS-106	06-25-07	AS-107	06-25-07	AS-108	06-25-07	AS-109	06-25-07	AS-110	06-25-07	AS-111	06-25-07	AS-112	06-25-07	AS-113	06-25-07	AS-114	06-25-07	AS-115	06-25-07	AS-116	06-25-07	AS-117	06-25-07	AS-118	06-25-07	AS-119	06-25-07	AS-120	06-25-07	AS-121	06-25-07	AS-122	06-25-07	AS-123	06-25-07	AS-124	06-25-07	AS-125	06-25-07	AS-126	06-25-07	AS-127	06-25-07	AS-128	06-25-07	AS-129	06-25-07	AS-130	06-25-07	AS-131	06-25-07	AS-132	06-25-07	AS-133	06-25-07	AS-134	06-25-07	AS-135	06-25-07	AS-136	06-25-07	AS-137	06-25-07	AS-138	06-25-07	AS-139	06-25-07	AS-140	06-25-07	AS-141	06-25-07	AS-142	06-25-07	AS-143	06-25-07	AS-144	06-25-07	AS-145	06-25-07	AS-146	06-25-07	AS-147	06-25-07	AS-148	06-25-07	AS-149	06-25-07	AS-150	06-25-07	AS-151	06-25-07	AS-152	06-25-07	AS-153	06-25-07	AS-154	06-25-07	AS-155	06-25-07	AS-156	06-25-07	AS-157	06-25-07	AS-158	06-25-07	AS-159	06-25-07	AS-160	06-25-07	AS-161	06-25-07	AS-162	06-25-07	AS-163	06-25-07	AS-164	06-25-07	AS-165	06-25-07	AS-166	06-25-07	AS-167	06-25-07	AS-168	06-25-07	AS-169	06-25-07	AS-170	06-25-07	AS-171	06-25-07	AS-172	06-25-07	AS-173	06-25-07	AS-174	06-25-07	AS-175	06-25-07	AS-176	06-25-07	AS-177	06-25-07	AS-178	06-25-07	AS-179	06-25-07	AS-180	06-25-07	AS-181	06-25-07	AS-182	06-25-07	AS-183	06-25-07	AS-184	06-25-07	AS-185	06-25-07	AS-186	06-25-07	AS-187	06-25-07	AS-188	06-25-07	AS-189	06-25-07	AS-190	06-25-07	AS-191	06-25-07	AS-192	06-25-07	AS-193	06-25-07	AS-194	06-25-07	AS-195	06-25-07	AS-196	06-25-07	AS-197	06-25-07	AS-198	06-25-07	AS-199	06-25-07	AS-200	06-25-07	AS-201	06-25-07	AS-202	06-25-07	AS-203	06-25-07	AS-204	06-25-07	AS-205	06-25-07	AS-206	06-25-07	AS-207	06-25-07	AS-208	06-25-07	AS-209	06-25-07	AS-210	06-25-07	AS-211	06-25-07	AS-212	06-25-07	AS-213	06-25-07	AS-214	06-25-07	AS-215	06-25-07	AS-216	06-25-07	AS-217	06-25-07	AS-218	06-25-07	AS-219	06-25-07	AS-220	06-25-07	AS-221	06-25-07	AS-222	06-25-07	AS-223	06-25-07	AS-224	06-25-07	AS-225	06-25-07	AS-226	06-25-07	AS-227	06-25-07	AS-228	06-25-07	AS-229	06-25-07	AS-230	06-25-07	AS-231	06-25-07	AS-232	06-25-07	AS-233	06-25-07	AS-234	06-25-07	AS-235	06-25-07	AS-236	06-25-07	AS-237	06-25-07	AS-238	06-25-07	AS-239	06-25-07	AS-240	06-25-07	AS-241	06-25-07	AS-242	06-25-07	AS-243	06-25-07	AS-244	06-25-07	AS-245	06-25-07	AS-246	06-25-07	AS-247	06-25-07	AS-248	06-25-07	AS-249	06-25-07	AS-250	06-25-07	AS-251	06-25-07	AS-252	06-25-07	AS-253	06-25-07	AS-254	06-25-07	AS-255	06-25-07	AS-256	06-25-07	AS-257	06-25-07	AS-258	06-25-07	AS-259	06-25-07	AS-260	06-25-07	AS-261	06-25-07	AS-262	06-25-07	AS-263	06-25-07	AS-264	06-25-07	AS-265	06-25-07	AS-266	06-25-07	AS-267	06-25-07	AS-268	06-25-07	AS-269	06-25-07	AS-270	06-25-07	AS-271	06-25-07	AS-272	06-25-07	AS-273	06-25-07	AS-274	06-25-07	AS-275	06-25-07	AS-276	06-25-07	AS-277	06-25-07	AS-278	06-25-07	AS-279	06-25-07	AS-280	06-25-07	AS-281	06-25-07	AS-282	06-25-07	AS-283	06-25-07	AS-284	06-25-07	AS-285	06-25-07	AS-286	06-25-07	AS-287	06-25-07	AS-288	06-25-07	AS-289	06-25-07	AS-290	06-25-07	AS-291	06-25-07	AS-292	06-25-07	AS-293	06-25-07	AS-294	06-25-07	AS-295	06-25-07	AS-296	06-25-07	AS-297	06-25-07	AS-298	06-25-07	AS-299	06-25-07	AS-300	06-25-07	AS-301	06-25-07	AS-302	06-25-07	AS-303	06-25-07	AS-304	06-25-07	AS-305	06-25-07	AS-306	06-25-07	AS-307	06-25-07	AS-308	06-25-07	AS-309	06-25-07	AS-310	06-25-07	AS-311	06-25-07	AS-312	06-25-07	AS-313	06-25-07	AS-314	06-25-07	AS-315	06-25-07	AS-316	06-25-07	AS-317	06-25-07	AS-318	06-25-07	AS-319	06-25-07	AS-320	06-25-07	AS-321	06-25-07	AS-322	06-25-07	AS-323	06-25-07	AS-324	06-25-07	AS-325	06-25-07	AS-326	06-25-07	AS-327	06-25-07	AS-328	06-25-07	AS-329	06-25-07	AS-330	06-25-07	AS-331	06-25-07	AS-332	06-25-07	AS-333	06-25-07	AS-334	06-25-07	AS-335	06-25-07	AS-336	06-25-07	AS-337	06-25-07	AS-338	06-25-07	AS-339	06-25-07	AS-340	06-25-07	AS-341	06-25-07	AS-342	06-25-07	AS-343	06-25-07	AS-344	06-25-07	AS-345	06-25-07	AS-346	06-25-07	AS-347	06-25-07	AS-348	06-25-07	AS-349	06-25-07	AS-350	06-25-07	AS-351	06-25-07	AS-352	06-25-07	AS-353	06-25-07	AS-354	06-25-07	AS-355	06-25-07	AS-356	06-25-07	AS-357	06-25-07	AS-358	06-25-07	AS-359	06-25-07	AS-360	06-25-07	AS-361	06-25-07	AS-362	06-25-07	AS-363	06-25-07	AS-364	06-25-07	AS-365	06-25-07	AS-366	06-25-07	AS-367	06-25-07	AS-368	06-25-07	AS-369	06-25-07	AS-370	06-25-07	AS-371	06-25-07	AS-372	06-25-07	AS-373	06-25-07	AS-374	06-25-07	AS-375	06-25-07	AS-376	06-25-07	AS-377	06-25-07	AS-378	06-25-07	AS-379	06-25-07	AS-380	06-25-07	AS-381	06-25-07	AS-382	06-25-07	AS-383	06-25-07	AS-384	06-25-07	AS-385	06-25-07	AS-386	06-25-07	AS-387	06-25-07	AS-388	06-25-07	AS-389	06-25-07	AS-390	06-25-07	AS-391	06-25-07	AS-392	06-25-07	AS-393	06-25-07	AS-394	06-25-07	AS-395	06-25-07	AS-396	06-25-07	AS-397	06-25-07	AS-398	06-25-07	AS-399	06-25-07	AS-400	06-25-07	AS-401	06-25-07	AS-402	06-25-07	AS-403	06-25-07	AS-404	06-25-07	AS-405	06-25-07	AS-406	06-25-07	AS-407	06-25-07	AS-408	06-25-07	AS-409	06-25-07	AS-410	06-25-07	AS-411	06-25-07	AS-412	06-25-07	AS-413	06-25-07	AS-414	06-25-07	AS-415	06-25-07	AS-416	06-25-07	AS-417	06-25-07	AS-418	06-25-07	AS-419	06-25-07	AS-420	06-25-07	AS-421	06-25-07	AS-422	06-25-07	AS-423	06-25-07	AS-424	06-25-07	AS-425	06-25-07	AS-426	06-25-07	AS-427	06-25-07	AS-428	06-25-07	AS-429	06-25-07	AS-430	06-25-07	AS-431	06-25-07	AS-432	06-25-07	AS-433	06-25-07	AS-434	06-25-07	AS-435	06-25-07	AS-436	06-25-07	AS-437	06-25-07	AS-438	06-25-07	AS-439	06-25-07	AS-440	06-25-07	AS-441	06-25-07	AS-442	06-25-07	AS-443	06-25-07	AS-444	06-25-07	AS-445	06-25-07	AS-446	06-25-07	AS-447	06-25-07	AS-448	06-25-07	AS-449	06-25-07	AS-450	06-25-07	AS-451	06-25-07	AS-452	06-25-07	AS-453	06-25-07	AS-454	06-25-07	AS-455	06-25-07	AS-456	06-25-07	AS-457	06-25-07	AS-458	06-25-07	AS-459	06-25-07	AS-460	06-25-07	AS-461	06-25-07	AS-462	06-25-07	AS-463	06-25-07	AS-464	06-25-07	AS-465	06-25-07	AS-466	06-25-07	AS-467	06-25-07	AS-468	06-25-07	AS-469	06-25-07	AS-470	06-25-07	AS-471	06-25-07	AS-472	06-25-07	AS-473	06-25-07	AS-474	06-25-07	AS-475	06-25-07	AS-476	06-25-07	AS-477	06-25-07	AS-478	06-25-07	AS-479	06-25-07	AS-480	06-25-07	AS-481	06-25-07	AS-482	06-25-07	AS-483	06-25-07	AS-484	06-25-07	AS-485	06-25-07	AS-486	06-25-07	AS-487	06-25-07	AS-488	06-25-07	AS-489	06-25-07	AS-490	06-25-07	AS-491	06-25-07	AS-492	06-25-07	AS-493	06-25-07	AS-494	06-25-07	AS-495	06-25-07	AS-496	06-25-07	AS-497	06-25-07	AS-498	06-25-07	AS-499	06-25-07	AS-500	06-25-07	AS-501	06-25-07	AS-502	06-25-07	AS-503	06-25-07	AS-504	06-25-07	AS-505	06-25-07	AS-506	06-25-07	AS-507	06-25-07	AS-508	06-25-07	AS-509	06-25-07	AS-510	06-25-07	AS-511	06-25-07	AS-512	06-25-07	AS-513	06-25-07	AS-514	06-25-07	AS-515	06-25-07	AS-516	06-25-07	AS-517	06-25-07	AS-518	06-25-07	AS-519	06-25-07	AS-520	06-25-07	AS-521	06-25-07	AS-522	06-25-07	AS-523	06-25-07	AS-524	06-25-07	AS-525	06-25-07	AS-526	06-25-07	AS-527	06-25-07	AS-528	06-25-07	AS-529	06-25-07	AS-530	06-25-07	AS-531	06-25-07	AS-532	06-25-07	AS-533	06-25-07	AS-534	06-25-07	AS-535	06-25-07	AS-536	06-25-07	AS-537	06-25-07	AS-538	06-25-07	AS-539	06-25-07	AS-540	06-25-07	AS-541	06-25-07	AS-542	06-25-07	AS-543	06-25-07
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ADDITIONAL SOIL INFORMATION

THE SOIL PROFILE AND/OR STRUCTURE FOUNDATION INVESTIGATION SHEETS CONTAIN AVAILABLE SOIL AND BEDROCK INFORMATION. ADDITIONAL INFORMATION MAY ALSO BE AVAILABLE FROM THE FOLLOWING:

1. SUBSURFACE INVESTIGATION REPORT(S) PREPARED FOR THE PROJECT.
2. ADDITIONAL SUBSURFACE INVESTIGATIONS MADE TO STUDY SOME ASPECT OF THE PROJECT.

THIS INFORMATION SHALL BE AVAILABLE FOR INSPECTION BY PROSPECTIVE BIDDERS AT THE OHIO TURNPIKE COMMISSION OFFICE LOCATED AT 682 PROSPECT STREET, BEREA, OHIO 44017. TELEPHONE (440) 234-2081.

ITEM 604 - MONUMENT ASSEMBLY

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH C.O.T. STANDARD CONSTRUCTION DETAILS AND MONUMENTS REFERENCED TO THE OHIO STATE PLANE COORDINATE SYSTEM AS SHOWN ON THE SURVEY CONTROL PLAN SHALL BE USED TO LOCATE A CENTERLINE POINT. MONUMENTS SHALL BE SET ON THE DISTANT SIDE OF THE CENTERLINE POINT. THE CONTRACTOR SHALL ESTABLISH TEMPORARY HORIZONTAL REFERENCES AND CONTROL BEFORE REMOVING EXISTING MONUMENTS. ALL MONUMENTS SHALL BE SET BY A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF OHIO.

ITEM 604 - MONUMENT ASSEMBLY 22 EACH

ITEM 204 - PROOF ROLLING

AN ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN PROVIDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

ITEM 204 - PROOF ROLLING 44 HOURS

ITEM 209 - DITCH CLEANOUT - AS PER PLAN

THIS WORK SHALL CONSIST OF REGRADING SECTIONS OF EXISTING DITCHES AS DESIGNATED ON THE PLANS OR AS IDENTIFIED BY THE CHIEF ENGINEER. REGRADING WORK SHALL BE DONE TO THE ALIGNMENT SHOWN ON THE PLANS AND MEETING THE EXISTING DITCH ALIGNMENT ON EACH END. REGRADING SHALL BE TYPICALLY CONSIST OF ELIMINATING SEDIMENT BUILD-UP, REGRADING SHOULDS AND ALONGSIDE DITCHES BY THE CHIEF ENGINEER. ALL CLEARING AND GRUBBING SHALL BE REQUIRED AT THE LOCATIONS AND SHALL BE PAID FOR UNDER ITEM \$201. SURPLUS OR UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE PROJECT AREA. WASHOUTS SHALL MEET THE REQUIREMENTS OF CDS 203.07. EXCEPT THE COMPACTION REQUIREMENTS SHALL BE REDUCED TO NINETEEN PERCENT PAYMENT FOR MAXIMUM FOR ABOVE WORK SHALL BE MADE AT THE CONTRACT UNIT PRICE PER LINEAR FOOT. AS MEASURED ALONG THE CENTERLINE OF DITCH, OF ITEM 209. DITCH CLEANOUT - AS PER PLAN, INCLUDING WEEDING AND MULCHING AND RESTORATION OF DISTURBED AREAS NECESSARY TO COMPLETE THE WORK.

IN ADDITION TO THE QUANTITY PROVIDED IN THE DRAWINGS FOR THIS WORK, THE CONTRACTOR SHALL ESTIMATE QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO CLEANOUT DITCHES AS DIRECTED BY THE CHIEF ENGINEER.

ITEM 209, DITCH CLEANOUT, AS PER PLAN 520 LIN. FT.

ITEM SPECIAL - (SIZE) PRECAST FLARED END SECTION

ITEM SPECIAL - (SIZE) PRECAST FLARED END SECTIONS OF VARIOUS SIZES SHALL BE CONSTRUCTED IN ACCORDANCE WITH C.O.T. STANDARD DRAWING OR 1. PAYMENT FOR MATERIALS AND LABOR SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM SPECIAL - (SIZE) PRECAST FLARED END SECTION.

ITEM \$01 - PAVED GUTTER, BROKEN IN PLACE - AS PER PLAN

THIS ITEM SHALL CONSIST OF BREAKING UP SECTIONS OF EXISTING CONCRETE GUTTER WHERE INDICATED ON THE PLANS.

THE GUTTER SHALL BE BROKEN AND LEFT IN PLACE IN A MANNER THAT WILL ASSURE A REASONABLY SMOOTH AND CONTINUOUS SURFACE WITH NO PIECES OF BROKEN CONCRETE BEING LARGER THAN 1/2" IN ANY DIMENSION. THE BROKEN CONCRETE SHALL BE REMOVED AND FILL WITH ITEM 601. ROCK CHANNEL PROTECTION ON TYPE D WITHOUT FILTER. PAYMENT FOR THE ABOVE DESCRIBED WORK WILL BE MADE AT THE CONTRACT UNIT PRICE PER LINEAR FOOT FOR ITEM \$01. PAVED GUTTER BROKEN IN PLACE SHALL BE PAID FOR UNDER THE COST OF ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THE WORK.

GUARDRAIL BEHIND CURBS

WHERE A CURB IS PROVIDED AT THE OUTER EDGE OF THE PAVED SHOULDER, ANY NECESSARY GUARDRAIL SHALL BE POSITIONED SO THAT THE FACE OF THE GUARDRAIL SHALL BE ALIGNED VERTICALLY WITH THE FACE OF CURB AND THE TOP OF THE RAIL SHALL BE 2' ABOVE THE GUTTER LINE.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO EXISTING GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A BEAM BRACKET. THE PRICE SHOWN IN THE BIDDING SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

GUARDRAIL REPLACEMENT

NO HAZARD SHALL BE LEFT UNPROTECTED EXCEPT FOR THE ACTUAL TIME NECESSARY TO REMOVE, GRADE, AND REINSTALL GUARDRAIL IN A CONTINUOUS OPERATION. THE REMOVAL OF ALL GUARDRAIL SHALL BE REMOVED UNTIL THE REPLACEMENT MATERIAL IS ON THE SITE. READY FOR INSTALLATION. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE DEEMED SUFFICIENT CAUSE TO ORDER WORK SUSPENDED ON THIS PROJECT UNTIL SUCH TIME THAT THE ENGINEER IS SATISFIED WITH THE WORK.

ITEM \$22 - CONCRETE BARRIER, TYPE B-50, AS PER PLAN

ITEM \$22 - CONCRETE BARRIER, TYPE B-50, AS PER PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH C.O.T. STANDARD DRAWING CBR-3 AND CDS 622.

IN LIEU OF THE CURING COMPOUND SPECIFIED IN SECTION 622.07 OF THE SPECIFICATIONS, THE CONCRETE BARRIER SHALL BE CURED USING THE MATERIAL SPECIFIED IN SP 536A. THE SP 536A MATERIAL APPLICATION SHALL BE AS PER THE RECOMMENDATIONS OF THE MANUFACTURER. THE CONTRACTOR SHALL SUBMIT TECHNICAL DATA FOR THE SP 536A MATERIAL TO THE ENGINEER FOR APPROVAL. THE COST OF CURING THE WALL AND BARRIER SHALL BE INCLUDED IN THE BID PRICE FOR SP 536A. MASONRY COATING. ALL OTHER PROVISIONS OF SECTION 622 OF THE SPECIFICATIONS SHALL APPLY.

ITEM \$22 - CONCRETE BARRIER, TYPE C-50, AS PER PLAN

ITEM \$22 - CONCRETE BARRIER, TYPE C-50, AS PER PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH C.O.T. STANDARD DRAWING CBR-31, AND SECTION 622 OF THE SPECIFICATIONS.

IN LIEU OF THE CURING COMPOUND SPECIFIED IN SECTION 622.07 OF THE SPECIFICATIONS, THE CONCRETE BARRIER SHALL BE CURED USING THE MATERIAL SPECIFIED IN SP 536A. THE SP 536A MATERIAL APPLICATION SHALL BE AS PER THE RECOMMENDATIONS OF THE MANUFACTURER. THE CONTRACTOR SHALL SUBMIT TECHNICAL DATA FOR THE SP 536A MATERIAL TO THE ENGINEER FOR APPROVAL. THE COST OF CURING THE WALL AND BARRIER SHALL BE INCLUDED IN THE BID PRICE FOR SP 536A. MASONRY COATING. ALL OTHER PROVISIONS OF SECTION 622 OF THE SPECIFICATIONS SHALL APPLY.

ITEM \$22 - CONCRETE BARRIER, TYPE D, AS PER PLAN

ITEM \$22 - CONCRETE BARRIER, TYPE D, AS PER PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH C.O.T. STANDARD DRAWING CBR-3, AND SECTION 622 OF THE SPECIFICATIONS.

IN LIEU OF THE CURING COMPOUND SPECIFIED IN SECTION 622.07 OF THE SPECIFICATIONS, THE CONCRETE BARRIER SHALL BE CURED USING THE MATERIAL SPECIFIED IN SP 536A. THE SP 536A MATERIAL APPLICATION SHALL BE AS PER THE RECOMMENDATIONS OF THE MANUFACTURER. THE CONTRACTOR SHALL SUBMIT TECHNICAL DATA FOR THE SP 536A MATERIAL TO THE ENGINEER FOR APPROVAL. THE COST OF CURING THE WALL AND BARRIER SHALL BE INCLUDED IN THE BID PRICE FOR SP 536A. MASONRY COATING. ALL OTHER PROVISIONS OF SECTION 622 OF THE SPECIFICATIONS SHALL APPLY.

THE COST OF THE BARRIER TRANSITION SHALL BE IDENTICAL TO ITEM \$22 - CONCRETE BARRIER, TYPE B-50, AS PER PLAN. THE COST OF THE BARRIER TRANSITION SHALL BE INCLUDED IN THE BID PRICE FOR SP 536A. MASONRY COATING. ALL OTHER PROVISIONS OF SECTION 622 OF THE SPECIFICATIONS SHALL APPLY.

ITEM \$22 - CONCRETE BARRIER, TYPE D, AS PER PLAN

SP 536A, MASONRY COATINGS

ALL EXPOSED CONCRETE BARRIER SURFACES SHALL RECEIVE A COATING PER SP 536A. THE COATING SHALL ALSO BE USED AS THE GURE COAT. THE FINAL APPEARANCE SHALL BE UNIFORM AND CONSISTENT, AND SHALL CONFORM TO ALL PROVISIONS IN SP 536A. NO ADDITIONAL PAYMENT SHALL BE MADE FOR THE MATERIAL OR FOR THE LABOR OR FOR THE MATERIALS NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR SP 536A, MASONRY COATING. THE QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR SP 536A, MASONRY COATINGS.

SP 536A, MASONRY COATING 31,429 SQ. YD.

EXTRA LONG GUARDRAIL POSTS

THE FOLLOWING QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR EXTRA LONG GUARDRAIL POSTS TO BE USED IN CONJUNCTION WITH SPECIAL PROVISION SP 606.

ITEM SP606 - GUARDRAIL POST, STEEL, 9 FT. 100 EACH

ITEM SPECIAL - PIPE CLEANOUT, 12" TO 36"

ITEM SPECIAL - PIPE CLEANOUT, 12" TO 36"

THIS WORK SHALL CONSIST OF REMOVING ALL SEDIMENT, DEBRIS AND FOREIGN MATERIAL IN CULVERTS BETWEEN THE EXISTING AND PROPOSED CULVERTS. THE REMOVAL SHALL NOT BE DESTRUCTIVE TO THE INTEGRITY OF THE CULVERT. THE CONTRACTOR SHALL REVIEW HIS CLEANSING PROCEDURES TO PERFORMING THE WORK, AND OBTAIN THE REQUIRED APPROVAL FROM THE ENGINEER. THE COST OF THE WORK SHALL BE INCLUDED IN THE BID PRICE FOR THIS ITEM.

CULVERT CLEANOUT WILL BE MEASURED ON A LINEAR FOOT BASIS. PAYMENT WILL BE MADE AT THE CONTRACT PRICE PER LINEAR FOOT FOR CULVERT CLEANOUT. PIPE CLEANOUT, 12" TO 36" AND ITEM SPECIAL, PIPE CLEANOUT, OVER 36".

ITEM SPECIAL - PIPE CLEANOUT, OVER 36" 300 LIN. FT.

ITEM SPECIAL - PIPE CLEANOUT, OVER 36" 300 LIN. FT.

EXISTING MAINTENANCE CROSSOVERS

THE CONTRACTOR MAY ENCOUNTER EXISTING ORIGINALLY CONSTRUCTED MAINTENANCE CROSSOVERS NOT REFLECTED ON THE AS-BUILT DRAWINGS. THESE CROSSOVERS VARY IN DEPTH, SIZE, AND LOCATION. THESE CROSSOVERS MAY BE REMOVED OR RECONSTRUCTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF THESE CROSSOVERS, INCLUDING EXCAVATION AND BACKFILL. SHALL BE CONSIDERED INCIDENTAL TO THE REMOVAL OF THE MAINTENANCE CROSSOVER AND PAID UNDER SECTION 203 OF SPECIFICATIONS AS SET FORTH UNDER SECTION 202.01 OF THE SPECIFICATIONS.

ITEM SPECIAL, INERTIA BARRIER REMOVED

THIS ITEM SHALL CONSIST OF REMOVING THE EXISTING INERTIA BARRIER AT STA. 59+00 AND DELIVERING IT TO THE SWANTON MAINTENANCE FACILITY AT M.P. 48.3. THE INERTIA BARRIER SHALL BE REMOVED IN A MANNER AVOIDING DAMAGE.

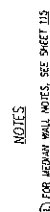
EACH DISMANTLED PIECE SHALL BE CAREFULLY MARKED SO AS TO FACILITATE REASSEMBLY.

THE UNIT PRICE BID FOR ITEM SPECIAL, INERTIA BARRIER REMOVED SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY TO REMOVE AND RESTORE THE AREA, INCLUDING THE ASPHALT PAD REMOVAL AND ALL NECESSARY EXCAVATION AND BACKFILL, REMOVAL AND DISPOSAL OF SURPLUS MATERIALS SHALL BE IN ACCORDANCE WITH SP 105.

1. ATTENDUM 1	SCW 12/10/12
NO.	REVISIONS
BY	DATE
OHIO TURNPIKE COMMISSION	
ROADWAY	
GENERAL NOTES	
STANDARD: GEORGE L. LONG, LIMITED	
11000 N. State St., Suite 100	
Cleveland, Ohio 44102	
(419) 335-1111	
DESIGNED BY	DATE
CHECKED BY	DATE
IN CHARGE	DATE
BY	DATE
CONTRACT 77-13-01 SHEET 12 OF 322	

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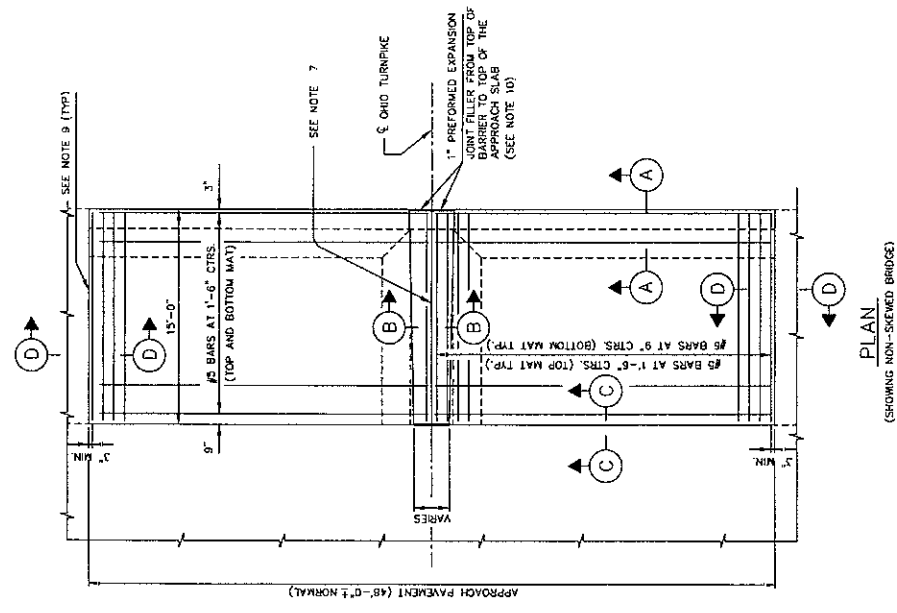
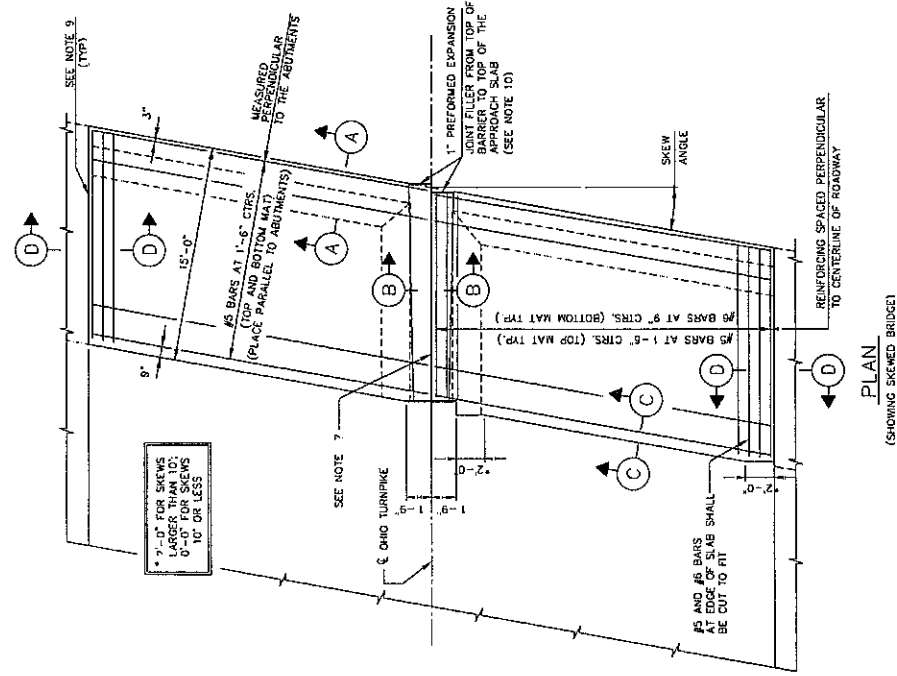
NOTE: THE ABOVE QUANTITIES ARE CARRIED TO THE
ROADWAY GENERAL SUMMARY SHEETS.



QAO 811-5056 CAL FILE NAME

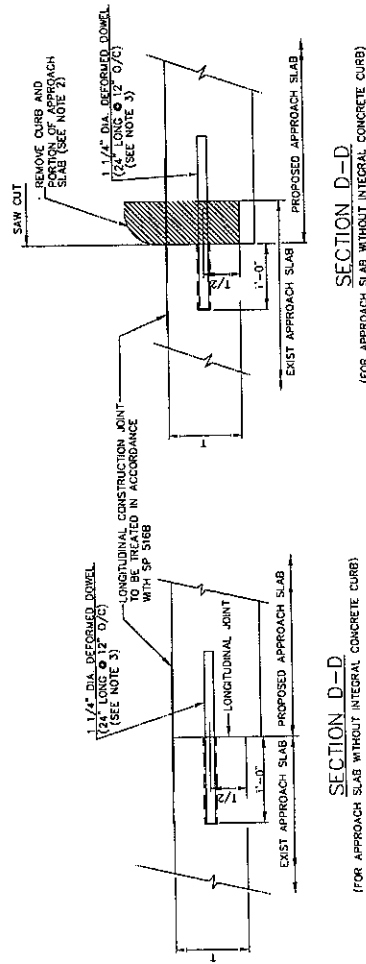
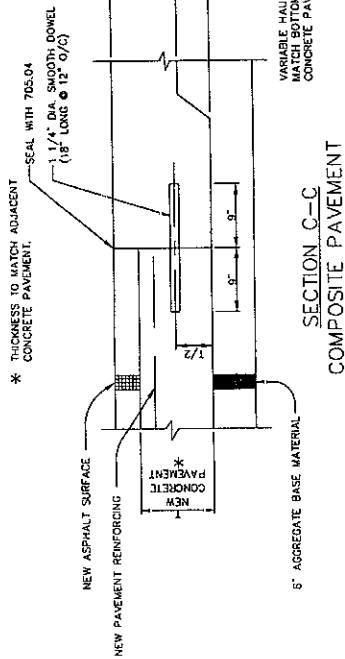
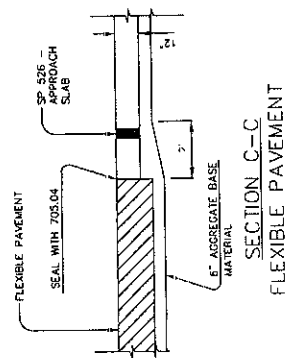
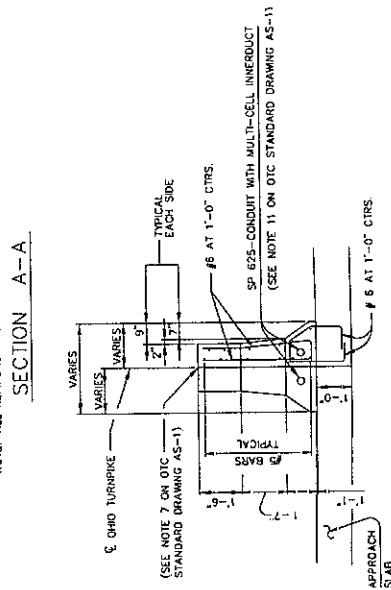
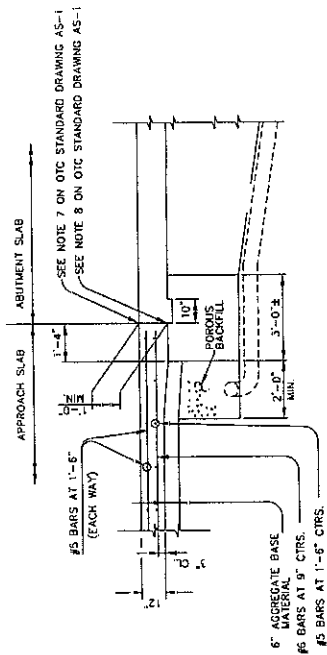
NOTES:

1. THIS DRAWING PROVIDES DESIGN AND GENERAL CONSTRUCTION DETAILS. THE PROJECT PLANS WILL SHOW SKEW, ESTIMATED QUANTITY (SQ. YDS), AND SPECIAL NOTES AND DETAILS WHERE NECESSARY FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADAPTING THE DETAILS TO THE ACTUAL CONDITIONS OF THE BRIDGE AND THE APPROACH PAVEMENT.
2. CONCRETE CLASS C USING TYPE I CEMENT SHALL BE USED. STRENGTH 60,000 P.S.I. SHALL BE EPOXY COATED AND AS PER SP 508.
3. LONGITUDINAL CONSTRUCTION JOINTS REQUIRED FOR STAGE CONSTRUCTION SHALL BE SP 511.2 AND SHALL BE TIED IN ACCORDANCE WITH SP 508.
4. CROWN SHALL CONFORM TO THAT OF THE BRIDGE DECK. IF THE RATE OF CONSTRUCTION OF THE BRIDGE DECK IS SUCH THAT THE RATE OF CONSTRUCTION OF THE APPROACH PAVEMENT AT A TRANSITION RATE OF 1 TO 200.
5. TRANSVERSE JOINT DETAILS AT THE APPROACH PAVEMENT END OF THE APPROACH SLAB SHALL BE AS DETAIL ON OTC STANDARD DRAWING AS-2.
6. BASE MATERIAL SHALL BE SP 304--AGGREGATE BASE.
7. GROOVE AND SEAL WITH 705.04 AS PER ODOT STANDARD DRAWING BP-2.1.
8. TYPE A WATERPROOFING SHALL NOT EXTEND ABOVE THE BOTTOM OF THE GROOVE INTO WHICH THE JOINT SEALER IS TO BE PLACED. IT SHALL BE PLACED IN THE GROOVE AND SHALL BE TIED TO THE JOINT SEALER. THE JOINT SEALER WHICH COMES INTO CONTACT WITH THE APPROACH SLAB.
9. THE JOINT BETWEEN THE EXISTING AND THE NEW APPROACH SLABS SHALL BE AS SHOWN IN SECTION "D-D".
10. 1" PREFORMED EXPANSION JOINT FILLER SHALL BE PER 705.03.
11. THE TWO 4" DIAMETER PVC CONDUITS WITH MULTI-CELL INNERDUCT SHALL COMPLY WITH SP 825.
12. FOR SECTIONS "A-A", "B-B", "C-C" AND "D-D" AND ADDITIONAL INFORMATION, SEE OTC STANDARD DRAWING AS-2.
13. THE FOLLOWING ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID PER SQUARE YARD FOR SP 304, CLASS C CONCRETE, APPROACH SLAB, USING TYPE I CEMENT (1=12):
 - : ALL JOINTS, INCLUDING DOWEL HOLES, DOWELS, AND GROUT
 - : TYPE A WATERPROOFING
 - : TYPE A WATERPROOFING
 - : 1" PREFORMED EXPANSION JOINT FILLER
 - : MEDIAN BARRIERS
 - : REINFORCING STEEL



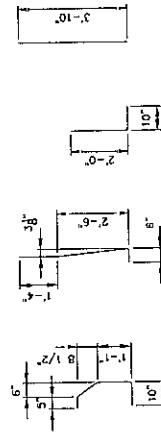
OHIO TURNPIKE COMMISSION
 REINFORCED CONCRETE
 APPROACH SLAB -
 MEDIAN WIDENING

DATE: NOVEMBER 20, 2012 | SCALE: N.T.S. |
 O.T.C. STANDARD DRAWING AS-1



NOTES:

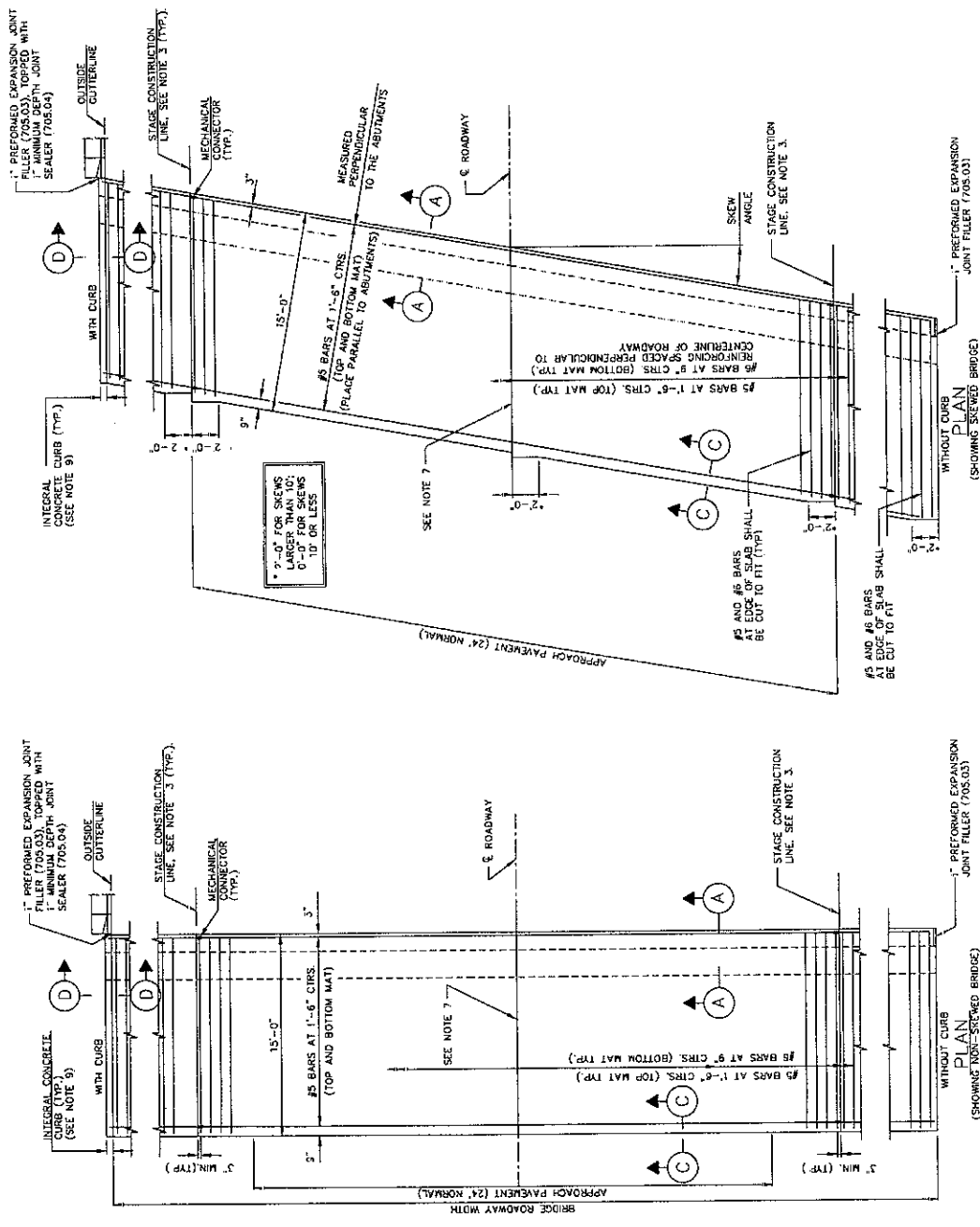
- FOR LOCATIONS OF SECTIONS 'A-A', 'B-B', 'C-C', AND 'D-D' AND ADDITIONAL NOTES: SEE OTC STANDARD DRAWING AS-1
- THE REMOVAL SHALL BE PER 202.05 OF THE GOOD OAS BUT THE COST OF THE REMOVAL SHALL BE INCIDENTAL TO THE COST OF SP 526.
- DRILL 1 3/4" DIA. HOLE INTO EXISTING CONCRETE, PARTIALLY FILL WITH NONSHRINKING GROUT BEFORE INSERTING DOWEL. PER 202.05 OF THE GOOD OAS BUT THE COST OF THE REMOVAL SHALL BE INCIDENTAL TO THE COST OF SP 526 (APPROACH SLAB).



OHIO TURNPIKE COMMISSION
REINFORCED CONCRETE
APPROACH SLAB
SECTIONS AND DETAILS -
MEDIAN WIDENING
DATE: NOVEMBER 20, 2012 SCALE: N.T.S.
OTC STANDARD DRAWING
AS-2

NOTES:

- THIS DRAWING PROVIDES DESIGN AND GENERAL CONSTRUCTION DETAILS. THE REINFORCING STEEL SHALL BE TYPE 60,000 P.S.I. ESTIMATED QUANTITY (SQ. YDS.) AND SPECIAL NOTES AND DETAILS WHERE NECESSARY FOR CONDITIONS OTHER THAN THOSE INDICATED HEREON. THE APPROACH SLAB SHALL BE ADAPTED TO FIT THE ENDS OF THE BRIDGE AND THE APPROACH PAVEMENT.
- CONCRETE: CLASS C USING TYPE 1 CEMENT, REINFORCING STEEL: GRADE 60 MIN YIELD STRENGTH 60,000 P.S.I., SHALL BE EPOXY COATED AND AS PER SP-509.
- LONGITUDINAL CONSTRUCTION JOINTS REQUIRED FOR STAGE CONSTRUCTION SHALL BE AS PER 511.12 AND SHALL BE RELATED IN ACCORDANCE WITH SP-518.
- CROWN SHALL CONFORM TO THAT OF THE APPROACH PAVEMENT AND BRIDGE DECK. IF THE RATE OF CROWN OF THE BRIDGE DECK DIFFERS FROM THAT OF THE APPROACH PAVEMENT, A SAWCUT TRANSITION SHALL BE PROVIDED ON THE APPROACH PAVEMENT AT A TRANSITION RATE OF 1" TO 200'.
- TRANSVERSE JOINT DETAILS AT THE APPROACH PAVEMENT END OF THE APPROACH SLAB SHALL BE AS DETAILED ON OTC STANDARD DRAWING AS-5.
- BASE MATERIAL SHALL BE SP-304-AGGREGATE BASE.
- GROOVE AND SEAL WITH 705.04 AS PER ODOT STANDARD DRAWING BP-21.
- TYPE A WATERPROOFING SHALL NOT EXTEND ABOVE THE BOTTOM OF THE CURB INTO WHICH THE JOINT SEALER IS TO BE PLACED. IT SHALL BE APPLIED TO THE ENTIRE AREA OF THE ABUTMENT OR SUPERSTRUCTURE WHICH COMES INTO CONTACT WITH THE APPROACH SLAB.
- THE INTEGRAL CONCRETE CURB SHALL BE PROVIDED ON THE NEW APPROACH SLAB AS INDICATED ON THE PROJECT PLANS AND SHOWN IN SECTION "D-D".
- 1" PERFORMED EXPANSION JOINT FILLER SHALL BE PER 705.03.
- CURBS, BRIDGES WITH SIDEWALKS: FOR BRIDGES CONSTRUCTED WITH RAISED SIDEWALKS, DETECTOR PARAPETS OR OTHER TYPES OF CONSTRUCTION WHICH RETAIN ROADWAY SURFACE DRAINAGE, THE APPROACH SLABS SHALL EITHER INCLUDE DETECTOR PARAPETS OR OTHER TYPES OF CONSTRUCTION WHICH RETAIN ROADWAY SURFACE DRAINAGE. BRIDGE CURB HEIGHT SHALL BE TRANSITIONED UNIFORMLY BETWEEN BRIDGE CURB HEIGHT AND APPROACH CURB HEIGHT IN LENGTH AS FOLLOWS: WHERE APPROACH CURB HEIGHT IS 4' OR LESS, THE TRANSITION SHALL BE 10' LONG. WHERE APPROACH CURB HEIGHT IS 4' TO 6', THE TRANSITION SHALL BE 20' LONG. WHERE APPROACH CURB HEIGHT IS 6' TO 8', THE TRANSITION SHALL BE 30' LONG. WHERE APPROACH CURB HEIGHT IS 8' OR MORE, THE TRANSITION SHALL BE 40' LONG. HOWEVER, THE TRANSITION LENGTH SHALL NOT BE LESS THAN 10' AND SHALL BE A MINIMUM OF 10' LONG. THE TRANSITION SHALL BE IN ACCORDANCE WITH ODOT STANDARD DRAWING BP-1.
- APPROACH SLAB WITH SHALL EXTEND FROM OUTER LINE TO OUTER LINE AND BE 6" WIDER FOR EACH CURB BEYOND THE END OF THE PARAPETS. SEE OTC STANDARD DRAWING AS-5.
- FOR SECTIONS "A-A", "B-B", "C-C" AND "D-D" AND ADDITIONAL INFORMATION SEE OTC STANDARD DRAWING AS-5.
- THE FOLLOWING ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID PER SQUARE YARD FOR SP-526, CLASS C CONCRETE, APPROACH SLAB, USING TYPE 1 CEMENT (1+12):
 - ALL JOINTS, INCLUDING DOWEL HOLES, DOWELS, AND GROUT
 - GROOVE AND JOINT SEAL
 - TYPE "A" WATERPROOFING
 - EXPANSION JOINT FILLER
 - MECHANICAL JOINT CONNECTOR
 - REINFORCING STEEL



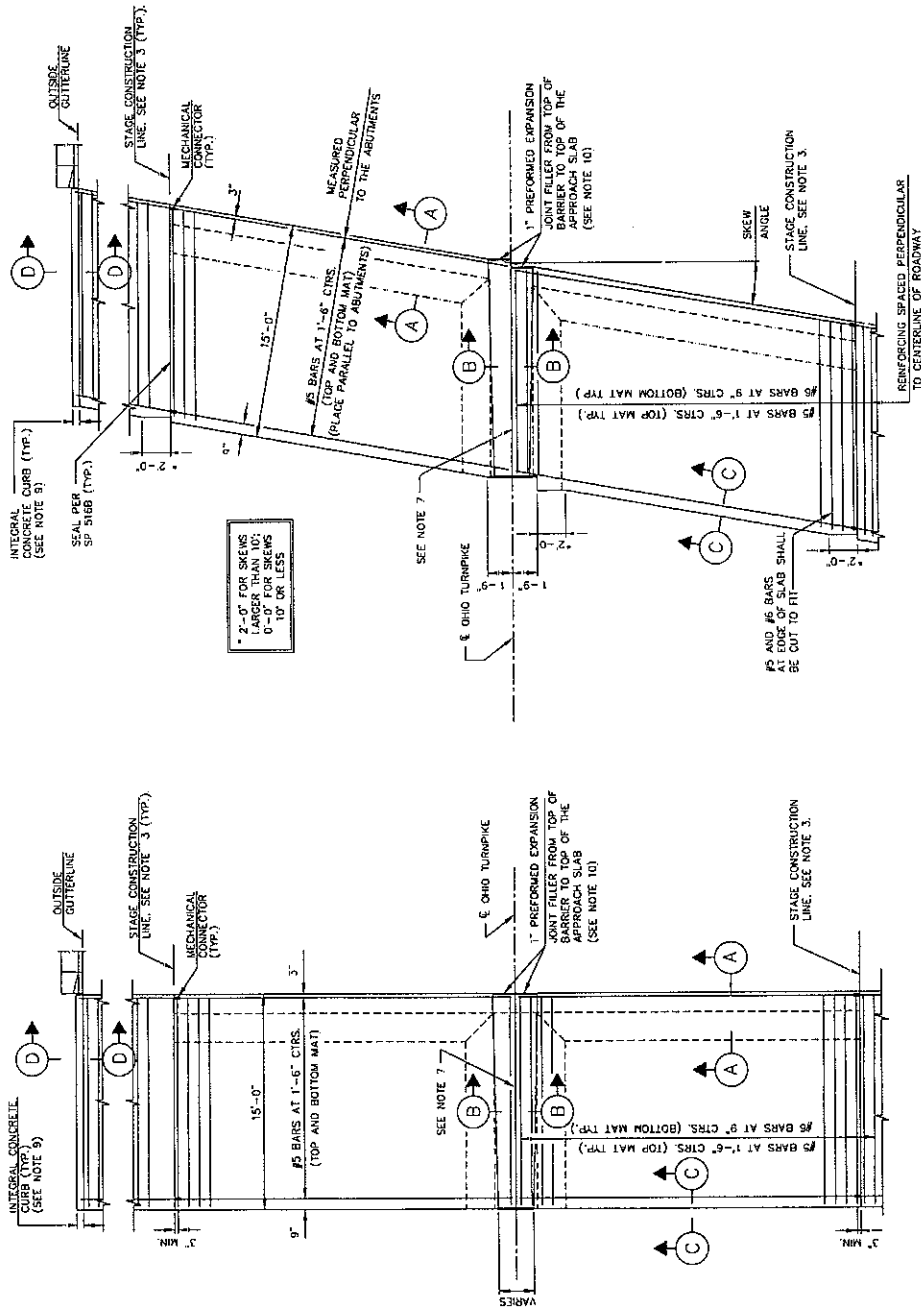
OHIO TURNPIKE COMMISSION

REINFORCED CONCRETE
APPROACH SLAB -
CELLULAR ABUTMENTS

DATE: NOVEMBER 20, 2012 | SCALE: N.T.S.
O.T.C. STANDARD DRAWING AS-3

NOTES:

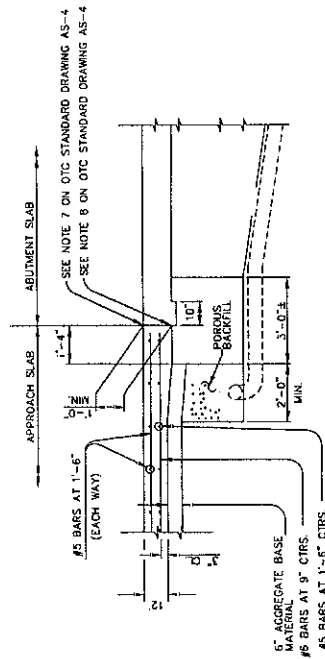
1. THE DRAWING PROVIDES DESIGN AND GENERAL CONSTRUCTION DETAILS. THE CONTRACTOR SHALL PROVIDE THE REQUIRED MATERIALS, QUANTITIES, AND SPECIAL NOTES AND DETAILS, WHERE NECESSARY FOR CONDITIONS OTHER THAN THOSE INDICATED HEREON. THE APPROACH SLAB SHALL BE ADAPTED TO FIT THE ENDS OF THE BRIDGE AND THE APPROACH PAVEMENT.
2. CONCRETE: CLASS C USING TYPE I CEMENT. REINFORCING STEEL: GRADE 60 W/ YIELD STRENGTH: 60,000 P.S.I. SHALL BE EPOXY COATED AND AS PER SP 505.
3. LONGITUDINAL CONSTRUCTION JOINTS REQUIRED FOR STAGE CONSTRUCTION SHALL BE AS PER SP 511.12 AND SHALL BE TREATED IN ACCORDANCE WITH SP 518.
4. CROWN SHALL CONFORM TO THAT OF THE BRIDGE DECK. IF THE RATE OF CROWN OF THE BRIDGE DECK DIFFERS FROM THAT OF THE APPROACH ASPHALT PAVEMENT, A SMOOTH TRANSITION SHALL BE MADE ON THE APPROACH ASPHALT PAVEMENT AT A TRANSITION RATE OF 1 TO 500.
5. TRANSVERSE JOINT DETAILS AT THE APPROACH PAVEMENT END OF THE APPROACH SLAB SHALL BE AS DETAIL ON OTC STANDARD DRAWING AS-5.
6. BASE MATERIAL SHALL BE SP 304-AGGREGATE BASE.
7. GROOVE AND SEAL WITH 705.04 AS PER ODOT STANDARD DRAWING BP-21.
8. TYPE A WATERPROOFING SHALL NOT EXTEND ABOVE THE BOTTOM OF THE GROOVE. THE JOINT SEALER IS TO BE PLACED. IT SHALL BE APPLIED TO THE ENTIRE AREA OF THE ABUTMENT OR SUPERSTRUCTURE WHICH COMES INTO CONTACT WITH THE APPROACH SLAB.
9. THE INTERNAL CONCRETE CURB SHALL BE PROVIDED ON THE NEW APPROACH SLAB AS SHOWN IN SECTION "D-D".
10. 1" PERFORMED EXPANSION JOINT FILLER SHALL BE PER 705.03. COMPLY WITH SP 625.
11. THE TWO 4" DIAMETER PVC CONDUITS WITH MULTI-CELL INNERDUCT SHALL COMPLY WITH SP 625.
12. FOR SECTIONS "A-A", "B-B", "C-C" AND "D-D" AND ADDITIONAL INFORMATION SEE OTC STANDARD DRAWING AS-5.
13. THE FOLLOWING ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID PER SQUARE YARD FOR SP 526, CLASS C CONCRETE, APPROACH SLAB, USING TYPE I CEMENT (7-12):
 - : ALL JOINTS, INCLUDING DOWEL HOLES, DOWELS, AND GROUT
 - : GROOVE AND JOINT SEAL
 - : TYPE "A" WATERPROOFING
 - : 1" PERFORMED EXPANSION JOINT FILLER
 - : MEDIAN BARRIERS
 - : REINFORCING STEEL



PLAN
(SHOWING NON-SKEWED BRIDGE)

PLAN
(SHOWING SKEWED BRIDGE)

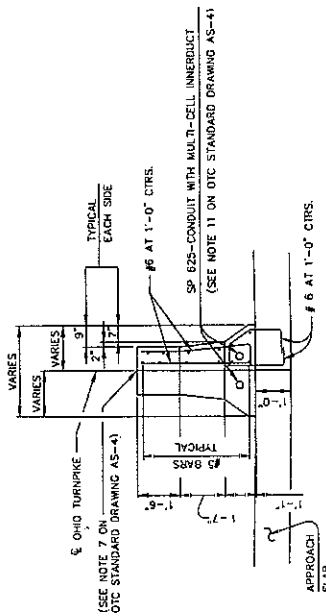
OHIO TURNPIKE COMMISSION		
REINFORCED CONCRETE APPROACH SLAB - FULL WIDTH REPLACEMENT		
DATE: NOVEMBER 20, 2012	SCALE: N.T.S.	AS-4
O.T.C. STANDARD DRAWING		



NOTE: ALL REINFORCING BARS SHALL BE EPOXY COATED.

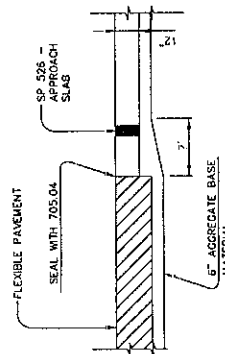
SECTION A-A

(SEE NOTE 2)



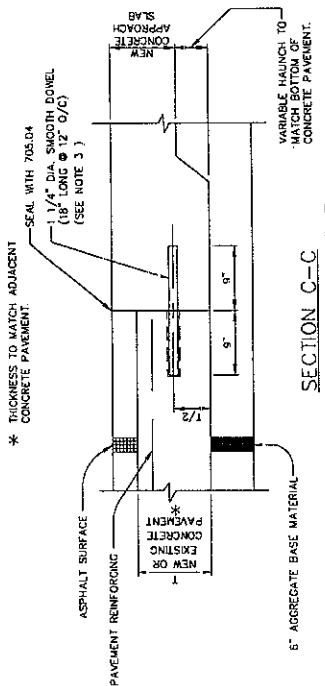
NOTE: REINFORCING AND DIMENSIONS SYMMETRICAL ABOUT CENTERLINE

SECTION B-B



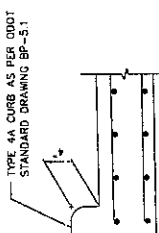
SECTION C-C

NOTE: REINFORCING AND DIMENSIONS SYMMETRICAL ABOUT CENTERLINE



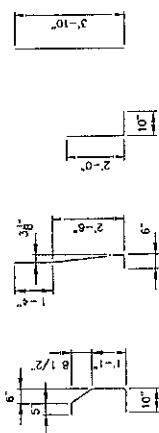
SECTION C-C

NOTE: REINFORCING AND DIMENSIONS SYMMETRICAL ABOUT CENTERLINE



SECTION D-D

NOTE: REINFORCING AND DIMENSIONS SYMMETRICAL ABOUT CENTERLINE



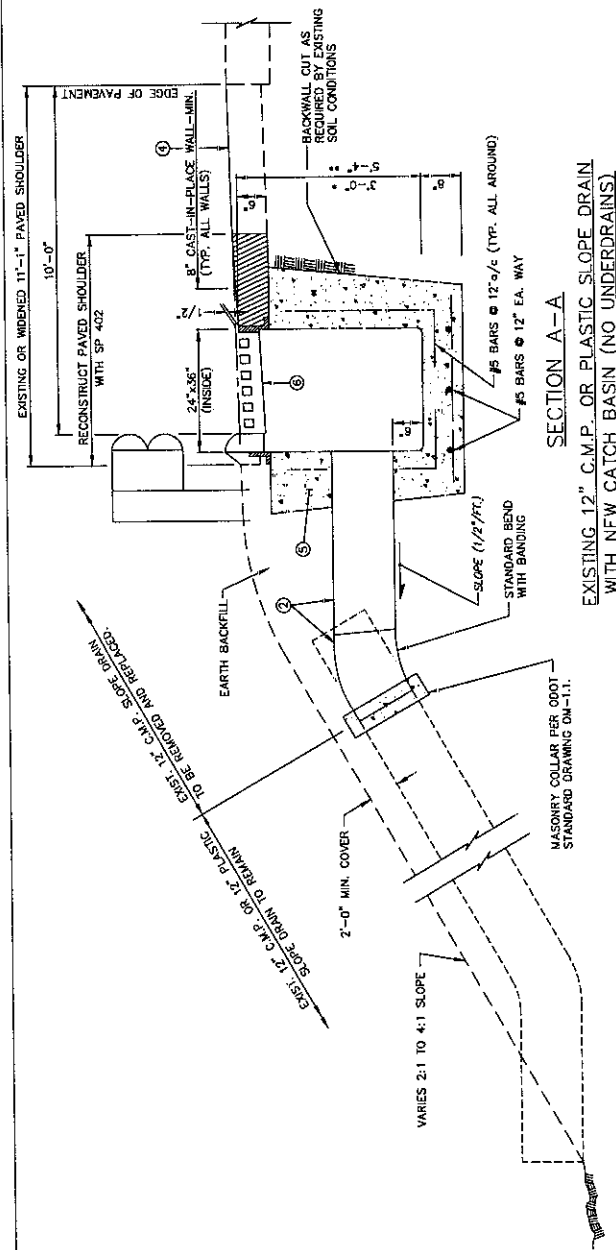
BAR BENDING DIAGRAMS

OHIO TURNPIKE COMMISSION
REINFORCED CONCRETE
APPROACH SLAB
SECTIONS AND DETAILS -
FULL WIDTH REPLACEMENT

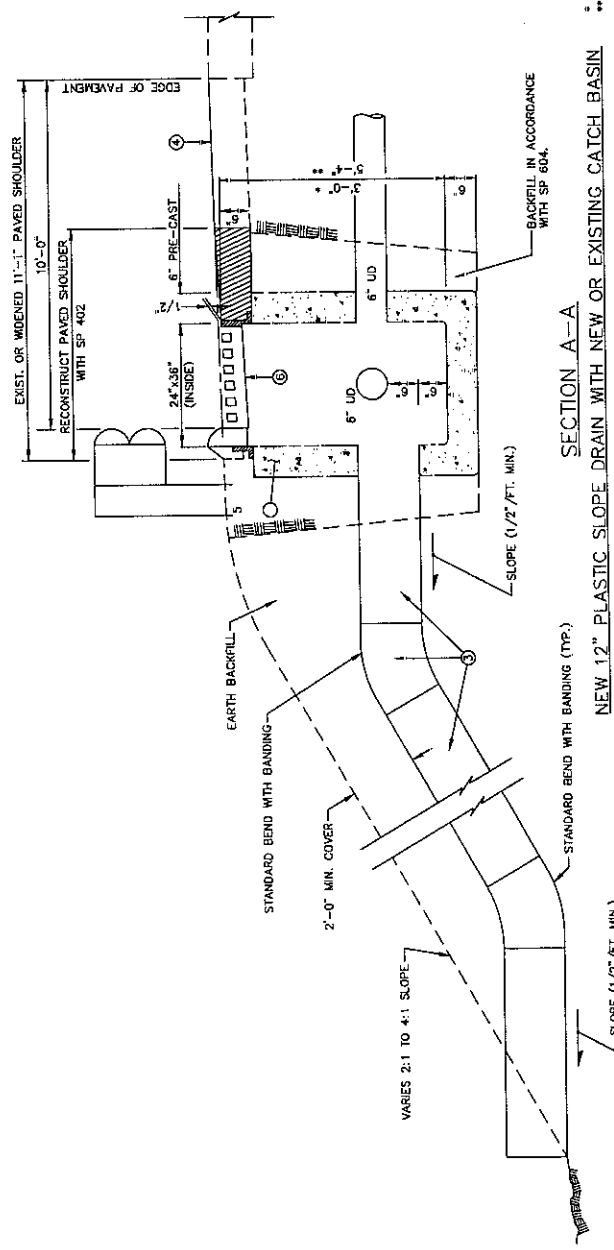
DATE: NOVEMBER 20, 2012 ISSUE: N.T.S.
O.T.C. STANDARD DRAWING AS-5

NOTES:

1. FOR LOCATIONS OF SECTIONS A-A, B-B, C-C, AND D-D AND ADDITIONAL NOTES, SEE OTC STANDARD DRAWING AS-5 OR AS-4.
2. THE POROUS BACKFILL AND THE DRAIN PIPES ARE PROVIDED IN THE NEW WIDENED SECTION ONLY. SEE ABUTMENT DETAILS FOR ADDITIONAL INFORMATION.
3. DRILL 1 3/4" DIA. HOLE INTO EXISTING CONCRETE. PARTIALLY FILL WITH NONSHRINKING GROUT BEFORE INSERTING DOWEL PER SD-03 AND THE COST IS INCIDENTAL TO THE COST OF SP 526 (APPROACH SLAB).

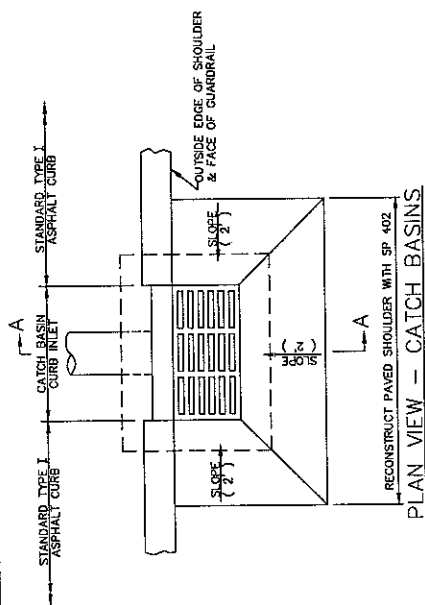


SECTION A-A
EXISTING 12" C.M.P. OR PLASTIC SLOPE DRAIN
WITH NEW CATCH BASIN (NO UNDERDRAINS)



SECTION A-A
NEW 12" PLASTIC SLOPE DRAIN WITH NEW OR EXISTING CATCH BASIN

REVISED FOR ADDENDUM NO. 1 DATED: 12-10-2012



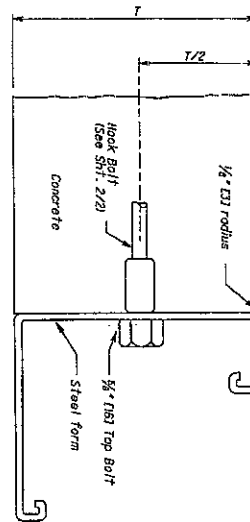
PLAN VIEW - CATCH BASINS

- LEGEND:
- ITEM 609 - ASPHALT CONCRETE CURB, P664-72, STANDARD TYPE I (SEE 0001 STANDARD DRAWING B-5-11).
 - ITEM 603 - 12" CONDUIT, TYPE F, 707.33 USING A STANDARD BEND WITH BANDING AS REQUIRED TO FORM TRANSITION BETWEEN NEW CONDUIT & EXISTING 12" C.M.P. THAT IS TO REMAIN.
 - ITEM 603 - 12" CONDUIT, TYPE F, 707.33 USING A STANDARD BEND WITH BANDING.
 - NEW SHOULDER SURFACE TREATMENT OR RESURFACED SHOULDER.
 - SE 604 - CATCH BASIN, NO. CB-1, REINFORCED CONCRETE CATCH BASIN USING CLASS "C" CONCRETE WITH DEFORMED BULLET STEEL REBARS, MEETING THE REQUIREMENTS OF 490.03 AND 509.02.
 - HEAVY DUTY, GRAY IRON CASTING MEETING THE REQUIREMENTS OF 711.12 - MODEL NO. R-3248 AS MANUFACTURED BY NENAH FOUNDRY CO. OR EAST JORDON IRON WORKS MODEL NO. 7030 OR AN APPROVED EQUAL.

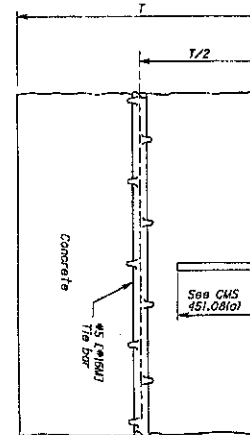
- NOTES:
- ASPHALT CONCRETE CURB & SLOPE DRAINS SHALL BE CONSTRUCTED TO THE APPROXIMATE STATIONS AS INDICATED ON THE PLAN, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - EXISTING COLLECTOR PAN TO BE REMOVED.
 - SLOPE DRAIN COUPLING BANDS SHALL BE 10 1/2" BAR & STRAP CONNECTOR WITH CONTINUOUS CORRUGATION AROUND BAND.
 - PIPE MAY BE TRIMMED FLUSH WITH INSIDE OF BASIN OR EXTEND INTO THE BASIN 1" MAX.
 - PRECAST CONSTRUCTION IS PERMITTED. THE CONCRETE SHALL MEET REQUIREMENTS OF 706.13 WITH 6% 28" AIR VOID CONTENT IN THE HARDENED CONCRETE. REBARS SHALL HAVE A MINIMUM 18" DEVELOPMENT LENGTH AND BE SUFFICIENT TO PERMIT REMOVAL OF CONCRETE WITHOUT DAMAGE. BACKFILL MATERIAL AROUND PRECAST CATCH BASINS SHALL MEET THE REQUIREMENTS OF SP 604. STEPS SHALL BE IN ACCORDANCE WITH 0001 STANDARD DRAWINGS MH-1.1.
 - SE 604 - CATCH BASIN, NO. CB-1, PAYMENT WILL BE MADE AT THE UNIT PRICE BID PER EACH FOR SP 604 - CATCH BASIN, NO. CB-1 AND SHALL INCLUDE ALL MATERIALS, EXCAVATION, EMBANKMENT, REINFORCING STEEL, CASTINGS, RECONSTRUCTED PAVED SHOULDER, RECONSTRUCTED ASPHALT CURB AND LABOR REQUIRED TO CONSTRUCT THE CATCH BASIN, NO. CB-1 AS SHOWN ABOVE, COMPLETE IN PLACE.
 - THE FOLLOWING TEXT SHALL BE CAST INTO THE TOP OF THE GRATE: "DUMP NO WASTE" AND "DRAIN TO WATERWAY". TEXT SHALL BE PRINTED IN BOLD, CAPITAL LETTERS WITH A MINIMUM HEIGHT OF 1/2". "WATERWAY" MAY BE SUBSTITUTED WITH "DRAINAGE DITCH", "LAKE", ETC. ACTUAL PLACEMENT AND LOGO MAY VARY PER MANUFACTURER.

OHIO TURNPIKE COMMISSION		
CATCH BASIN, NO. CB-1 & SLOPE DRAIN DETAIL		
DATE: NOVEMBER 20, 2012	SCALE: N.T.S.	O.T.C. STANDARD DRAWING CB-1

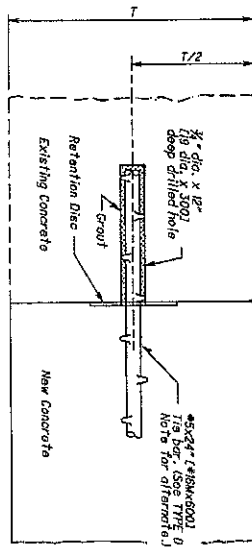
• DEPTH WITHOUT UNDERDRAIN.
• DEPTH WITH UNDERDRAIN.



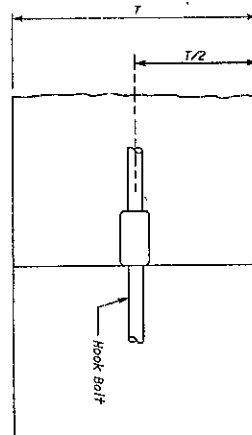
ACCEPTABLE METHOD OF FORMING JOINT



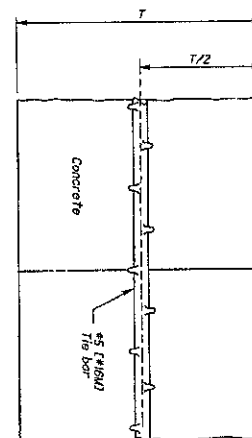
SAWED JOINT



TYPE D (DRILLED TIE LONGITUDINAL) JOINT



BUTT JOINT
W/ HOOK BOLT



BUTT JOINT
W/ TIE BAR

NOTES

GENERAL: Longitudinal joints shall be used when specified on the typical section and shall be constructed as shown on this drawing in Items 451 and 452 Pavement and Item 305 Base.

The joint shall be on the centerline of the pavement unless otherwise shown on the plans. Where the pavement width exceeds 16' (3.0 m), an additional longitudinal joint shall be introduced into the jointing details as shown on the plans. A satisfactory device shall be used to hold the tie bars in proper position or they may be installed by a mechanical installing device. Tie bars shall be centered on the longitudinal joint as nearly as practical.

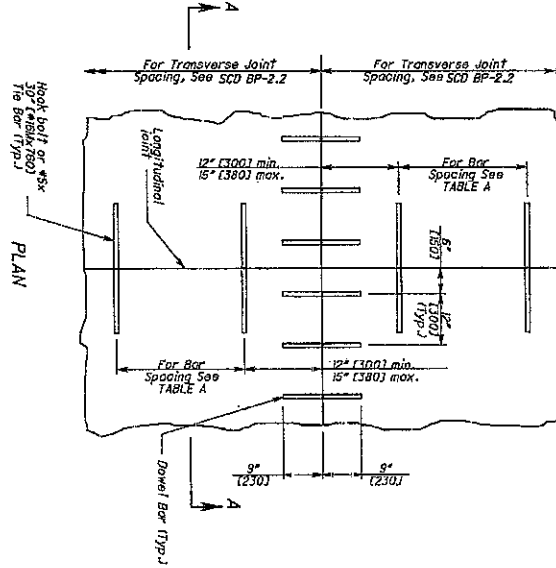
BUTT JOINT: The longitudinal joint between adjoining sides poured in separate operations shall be a butt joint with hook bolts or tie bars, unless otherwise shown on the plans. Butt tie bars shall not be permitted.

TYPE D (DRILLED TIE) LONGITUDINAL JOINT: Type D joints shall be constructed in accordance with CMS 255.02. The tie or expansion anchors shall be clear or copious white in color. Expansion anchors, FF-S-325, Group VIII, Type 1 or Group II, Type 4, Class I may be used in lieu of the #5x24" (16x610) deformed bar and shall be installed according to the manufacturer's recommendations.

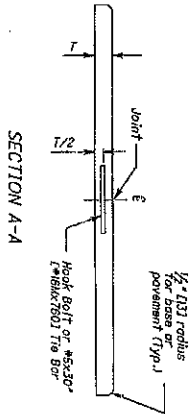
The use of self-drilling expansion shield anchors, FF-S-325, Group III, Type 1 (a) and (c) shall not be permitted.

See Sheet 2/2 for additional details.

THIS DRAWING REPLACES BP-2.1 DATED 7-16-04

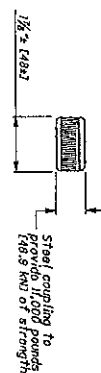
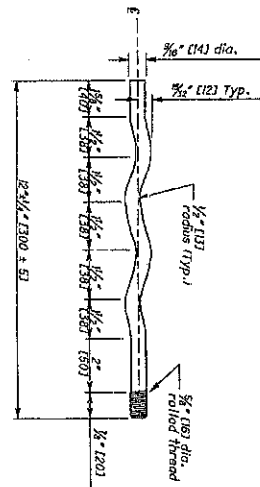


Thickness of Pavement	Transverse Joint Spacing	Number of Tie Bars per Side	Max. Spacing between Tie Bars
10" (250)	15' (4.6 m)	7	28' (8.60)
12" (300) or less	21' (6.5 m)	10	28' (8.60)
Greater than 12" (300)	15' (4.6 m)	9	20' (6.09)
	21' (6.5 m)	13	20' (6.09)

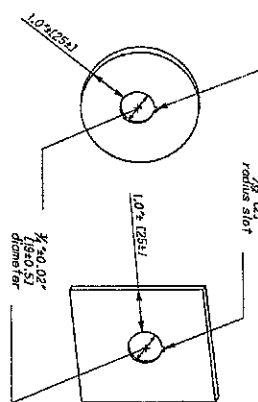


TIE BAR OR HOOK BOLT SPACING

HOOK BOLT ALTERNATE



NYLON OR PLASTIC GROUT RETENTION DISCS FOR DOMEL-TIE BARS



NOTES

EDGE: Edge joints with a thin metal edger having a radius of 1/2\"/>

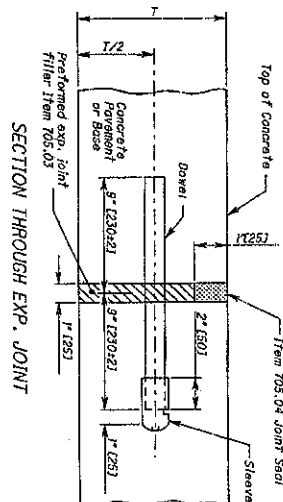
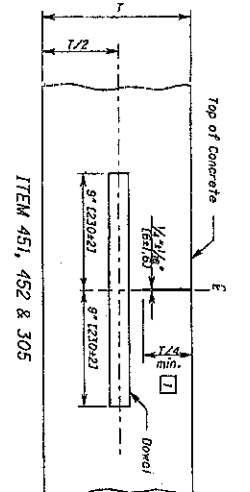
IN LIEU OF THE ABOVE METHOD, THE LONGITUDINAL JOINT MAY BE CONSTRUCTED IN ACCORDANCE WITH CMS 451.03(a).

HOOK BOLTS: Threaded hook bolts and alternates shall be turned to a tight fit when installed in couplings. Ensure the coupling is located on the same side of the joint as the shorter 16\"/>

METAL STRENGTH: Tie bars, hook bolts assemblies, and the hook bolt alternate shall have a minimum strength of 11,000 pounds (48.5 kN).

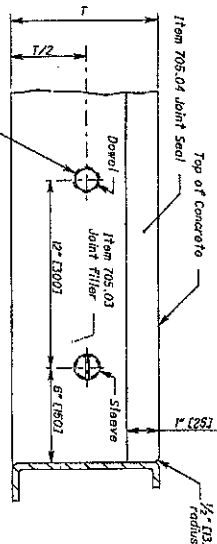
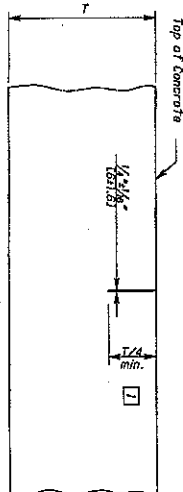
SPACING: Tie bars shall not be located within 12' (3001) of any transverse joint.

THIS DRAWING REPLACES BP-2.1 DATED 7-16-04.



1 Where T = 3\"/>

LEGEND



NOTES

CONTRACTION JOINTS SECTIONS

for shoulders, alloys, drainage, etc.

SECTION THROUGH CONSTRUCTION JOINT

EXPANSION JOINTS

SECTION THROUGH CONSTRUCTION JOINT

GENERAL: Notes and details shown on this drawing shall be considered in conjunction with and supplemental to the pertinent specifications for Portland cement concrete pavement and bases, and related incidents.

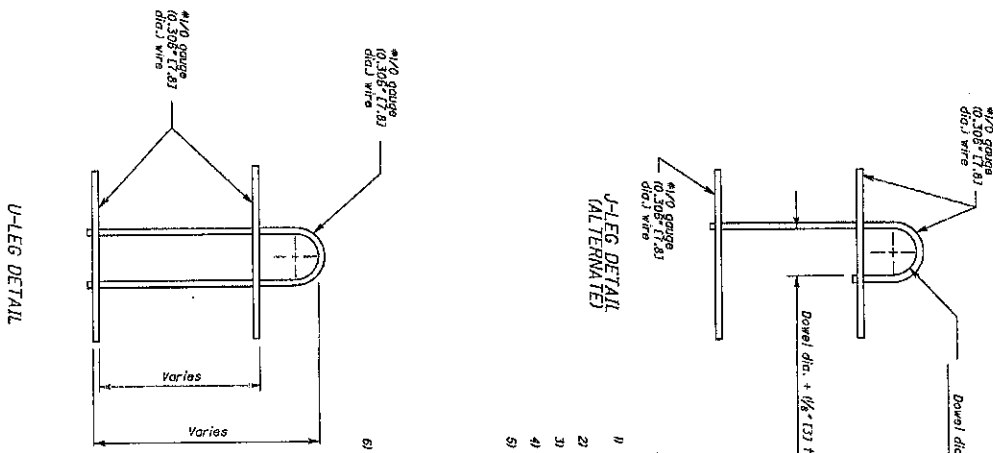
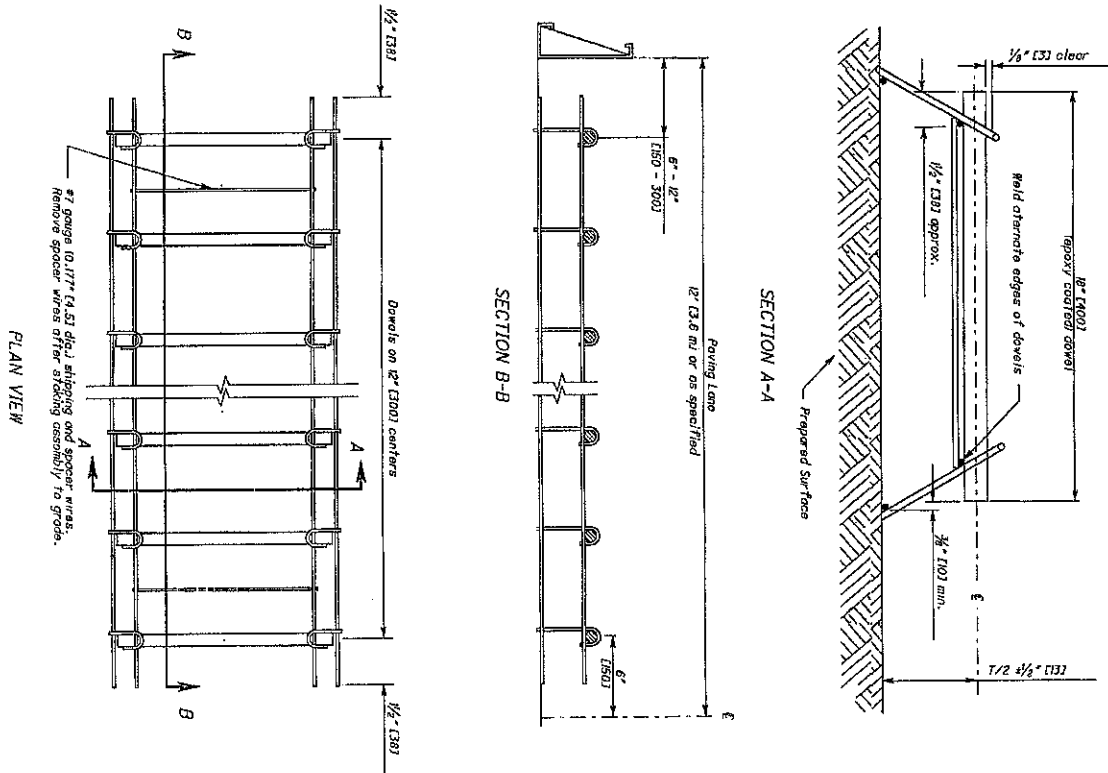
JOINT COMPONENTS: This drawing is intended for use with the standard joint components. When the project involves the placing of vertical depth pavement, the joint components shall be laid in place in accordance with the method shown in the plans or as approved by the Engineer.

CONTRACTION JOINTS: Contraction joints in items 452 and 305 shall not be dowelled in alleys, private drives, or commercial drives.

Contraction joints of the type specified shall be spaced in accordance with the CONTRACTION JOINT SPACING Table.

CONTRACTION JOINT SPACING	
Types of Pavement or Base	Maximum Spacing between Joints
Item 451 Reinforced Concrete Pavement	27 (8.5 m)
Item 452 Non-Reinforced Concrete Pavement	15 (4.6 m)
Item 305 Concrete Base	15 (4.6 m)

THIS SHEET REPLACES BP-2 2 DATED 7-16-04



NOTES

- 1) Refer to CMS 451.08 B and 709.13 for dowel specifications.
- 2) All wire sizes shown are minimum required.
- 3) All wire intersections are to be welded.
- 4) Stakes typically applied at working ends of dowel.
- 5) TOLERANCES:
- 6) All 1/2" per foot (152 mm per meter) unless otherwise specified.
- 7) Centerline of individual dowels shall be parallel to each other, the surface and the centerline of the slab.
- 8) On centers should be 1/2" (13mm).
- 9) Dowels should be placed at mid-depth of slab.
- 10) U-leg or J-leg to be installed on inside or outside of subforms.

THIS SHEET REPLACES BP-2.2 DATED 7-16-04

SCD NUMBER BP-2.2	STANDARD ROADWAY CONSTRUCTION DRAWING TRANSVERSE PAVEMENT JOINTS	OFFICE OF ROADWAY ENGINEERING	ALL METRIC DIMENSIONS (IN BRACKETS) ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	PAVEMENT DESIGN D. Miller	STATE OF OHIO DEPARTMENT OF TRANSPORTATION Pavement Engineering Administrator 7-18-08 DATE
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DESIGN AGENCY
OFFICE OF
STRUCTURAL ENGINEERING

BEAM SPlice DETAILS									
BEAM	FLANGE PLATES		FLANGE BOLTS		WEB SPACE		WEIGHT		
	TYPE	NUM.	PITCH	A B C	TYPE	WEBS	PLATES	OF	
	2 REVD	4 REVD						SPICE	
W40X159	B	12	12	7 1/2	C	2	12	1390	
W40X149	B	12	12	7 1/2	C	2	12	1290	
W40X139	B	12	12	7 1/2	C	2	12	1190	
W40X129	B	12	12	7 1/2	C	2	12	1090	
W40X119	B	12	12	7 1/2	C	2	12	990	
W40X109	B	12	12	7 1/2	C	2	12	890	
W40X99	B	12	12	7 1/2	C	2	12	790	
W40X89	B	12	12	7 1/2	C	2	12	690	
W40X79	B	12	12	7 1/2	C	2	12	590	
W40X69	B	12	12	7 1/2	C	2	12	490	
W40X59	B	12	12	7 1/2	C	2	12	390	
W40X49	B	12	12	7 1/2	C	2	12	290	
W40X39	B	12	12	7 1/2	C	2	12	190	
W40X29	B	12	12	7 1/2	C	2	12	90	
W40X19	B	12	12	7 1/2	C	2	12	0	
W40X9	B	12	12	7 1/2	C	2	12	0	
W40X0	B	12	12	7 1/2	C	2	12	0	
W36X159	B	12	12	7 1/2	C	2	12	1590	
W36X149	B	12	12	7 1/2	C	2	12	1490	
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W36X79	B	12	12	7 1/2	C	2	12	790	
W36X69	B	12	12	7 1/2	C	2	12	690	
W36X59	B	12	12	7 1/2	C	2	12	590	
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W36X19	B	12	12	7 1/2	C	2	12	190	
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W8X29	B	12	12	7 1/2	C	2	12	290	
W8X19	B	12	12	7 1/2	C	2	12	190	
W8X9	B	12	12	7 1/2	C	2	12	90	
W8X0	B	12	12	7 1/2	C	2	12	0	

