

OHIO TURNPIKE AND
INFRASTRUCTURE COMMISSION

ADDENDUM NO. 2

PROJECT NO. 39-15-02

PROJECT NO. 39-15-02 (PART A)
RIGHT TWO (2) LANES AND SHOULDER RECONSTRUCTION
MILEPOST 216.10 TO MILEPOST 218.60
RECONSTRUCTION OF TWO (2) LANES AND SHOULDERS
MILEPOST 218.60 TO MILEPOST 221.26
TRUMBULL AND MAHONING COUNTIES, OHIO

PROJECT NO. 39-15-02 (PART B)
BRIDGE DECK OVERLAY
TP 216 RAMP BRIDGE OVER THE OHIO TURNPIKE
MILEPOST 216.4
TRUMBULL COUNTY, OHIO

OPENING DATE: 2:00 P.M. (E.S.T), JANUARY 28, 2015

ALL BIDS MUST BE ELECTRONICALLY SUBMITTED

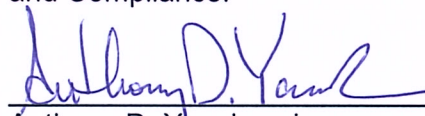
ATTENTION OF BIDDERS IS DIRECTED TO:

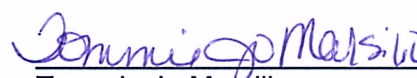
MODIFICATIONS TO THE PLAN SHEETS

39-15-02 PART A, PLAN SHEETS: TITLE SHEET, 20, 35, 45, 207, 209, 217, 218,
219, 307, 329, 362, 363, 364, 365, 366, 367 OF 419 AND OTIC STANDAND DRAWING CBR-4.

ANSWERS TO QUESTIONS RECEIVED THROUGH NOON, JANUARY 23, 2015

Issued by the Ohio Turnpike and Infrastructure Commission on January 23, 2015. Issuance authorized by Anthony D. Yacobucci, Chief Engineer, and Tommie Jo Marsilio, Director, Contracts Administration and Compliance.


Anthony D. Yacobucci 1/23/15
Date


Tommie Jo Marsilio 1/23/15
Date

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION
ADDENDUM NO. 2
PROJECT NO. 39-15-02

MODIFICATIONS VIA ADDENDUM NO. 2 TO THE CONTRACT DOCUMENTS FOR PROJECT NO. 39-15-02

Modifications to the Plan Drawings

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



Modifications to the Excel Worksheet

Deletions are shown with ~~striketrough~~ text.
Changes/Additions are shown with ***bold italicized*** text.
Changes are also highlighted.

The Bid Form in Bid Express will reflect the changes herein.

Please note Bids may not be submitted using the Excel Worksheet.

ANSWERS TO QUESTIONS RECEIVED THROUGH NOON, JANUARY 23, 2015

Q#9 In regards to the Rock Excavation, APP, and Embankment, APP, it appears that the quantity provided seems to be extremely overstated. After reviewing the bore logs at the locations of the shale, it only appears that the shale will encroach within 1 ft of the subgrade in only a couple of shot sections of the project. I am only seeing problems between Sta. 70+00 – 72+00 +/- and at the east end of the project between Sta. 209+00-218+00. Even at these locations, the shale that encroaches the 1 ft threshold is minimal. Please review both the Rock Excavation, APP and the Embankment, APP quantities to provide a more realistic quantity to equalize the bidders as the bid these two items.

A#9 *Via Addendum No. 2, the quantities for Item 203 – Rock Excavation, As Per Plan and Item 203 – Embankment, As Per Plan have been revised as listed under the general note “Item 206 – Chemically Stabilized Subgrade” and subtitle “Shallow Bedrock Stabilization” found on Sheets 20 and 207 of 419 of the Plans. These quantity changes have been revised in Bid Express.*

Q#10 In regards to the Pavement Planing (9”) Item, the quantity provided includes milling the 1’-3” lap depth through the entire length of the project. Since in the 2 lane section of the project we are constructing the pavement full width, I do not see where this planing needs to be performed. The quantity should only be based on the 3-lane section were we are overlapping into the existing 3rd lane. Please clarify.

A#10 *Via Addendum No. 2, the quantity for Item 254 – Pavement Planing (9”) has been revised to eliminate the quantities calculated for this item within the limits of the two (2) lane full reconstruction section. This item does not apply to the two (2) lane full reconstruction section. These quantity changes have been revised on Plan Sheets 209, 217, 218 and 219 of 419 and in Bid Express.*

Q#11 I cannot find any reference for payment or standard drawings for the Concrete Barrier Median Overhead Sign Support Foundation.

A#11 *Via Addendum No. 2, a quantity for Item 630 – Sign Support Foundation has been added to Sheet 329 of 419 of the plans and OTIC Standard Drawing CBR-4 has been included with Addendum No.2 which specifies the pay limits for this item. These quantity changes have been revised on Plan Sheets 307 and 329 of 419 and in Bid Express.*

Q#12 Page 366 of 419 references a OTIC Standard Drawing UD-1. This Standard is not listed or provided. Can you supply us with a copy.

A#12 *Via Addendum No. 2, the reference to “OTIC Standard Drawing UD-1” has been revised to read “ODOT Standard Drawing DM-1.1” on Sheets 362 through 367 of 419 of the plans.*

Q#13 SP 516H – REHABILITATION OF FIXED BEARING ASSEMBLY, SECTION A.6 AND SECTION C.4 MENTION INSTALLING A NEW 4x4x3/4 ANGLE. I HAVE FOUND NO DETAIL IN THE PLANS OR REFERENCED STANDARD DRAWINGS FOR THIS MATERIAL. PLEASE PROVIDE DESCRIPTION OR CLARIFY THE SPECIAL PROVISION NOTES.

A#13 *The requirements for SP516H are generic work descriptions that may be required for the different types of fixed bearings used on Ohio Turnpike bridges. Based upon the details provided in the Contract Plans, the replacement of 4x4x3/4 angles is not required.*

Q#14 In regards to the Pavement for Maintaining Traffic, Class A, would the Turnpike entertain the option of eliminating the 304 aggregate base course and increase the depth of the 302 base course since this pavement will be removed later in the project? This is a common note in the DOT plans, eliminating the 304 and increasing the 302 to 9”.

A#14 *Yes, the 304 Aggregate Base may be eliminated providing that the 302 Asphalt Concrete Base material is placed at a total thickness of 9 inches.*

Q#15 Also, please look at the Snap “Mill and Fill” quantity. It appears to be over stated by around 2750 lf. The eastbound ramp traffic is only exposed to median rumble strips up to approximately Sta.71+00 were the plans calls out to go to Sta. 98+50. I do not see were any traffic will be exposed to the rumble strips between 71+00 and 98+50.

A#15 *The quantity of Item Special – “SNAP” Mill and Fill has been revised with Addendum No.2. These quantity changes have been revised on Plan Sheets 35 and 45 of 419 and in Bid Express.*

Q#16 Kevin, could not find any information as far as train count and speed in the proposal – the mile post listed is FY-0.53 – please advise.

A#16 The following train traffic may fluctuate based on the needs of the Railroad customers. The following information was provided by Norfolk-Southern Railroad. The Norfolk-Southern Railroad is located at MP 217.4 with the following train data: all trains are freight trains; two (2) trains per day that travel at a maximum speed of 25 mph. The Commission will pay the actual cost for any railroad flaggers, if required.

Q#17 We have a question in regards to project no. 39-15-02: Where is states "This work and all ash trees or dead trees less than 12" shall be completed under the lump sum bid for item 201", does all ash trees mean that ash trees over 12" will only be paid for under clearing and grubbing? Or ash trees over 12" will be paid for on a unit cost basis?

A#17 All trees greater than 12 inch diameter (including ash trees and dead trees) shall be paid for Each under Item 201- Tree Removed, ___" Size.

Addendum No. 2 to Contract 39-15-02 is hereby acknowledged:

(Firm Name)

(Signature)

(Printed Name)

Date: _____

PROJECT NO. 39-15-02 BID FORM

Revised Through Addendum No. 2

Ref. No.	Item No.	Item Description	Approx. Quantity	Unit	Unit Cost	Extended Bid Amount
39-15-02 PART A - ROADWAY (Ref. Nos. 1 - 57)						
1	201	CLEARING AND GRUBBING	1	LUMP		
2	201	TREE REMOVED, 18" SIZE	50	EACH		
3	201	TREE REMOVED, 30" SIZE	5	EACH		
4	202	PIPE REMOVED	2,462	FT		
5	202	CATCH BASIN OR INLET REMOVED	53	EACH		
6	202	MANHOLE REMOVED	1	EACH		
7	202	FENCE REMOVED	500	FT		
8	202	GUARDRAIL REMOVED, AS PER PLAN	27,794	FT		
9	202	APPROACH SLAB REMOVED	1,224	SY		
10	202	CONCRETE BARRIER REMOVED	760	FT		
11	202	GUTTER REMOVED	330	FT		
12	202	PAVEMENT REMOVED, AS PER PLAN	241,596	SY		
13	203	EXCAVATION	78,286 81,157	CY		
14	203	EXCAVATION, AS PER PLAN	28,281	CY		
15	203	ROCK EXCAVATION, AS PER PLAN	18,850 3,700	CY		
16	203	EXCAVATION FOR SLOPE EROSION PROTECTION	1,538	CY		
17	203	EXCAVATION INCLUDING EMBANKMENT, AS PER PLAN	5,641	CY		
18	203	EMBANKMENT	35,688	CY		
19	203	EMBANKMENT, AS PER PLAN	18,850 3,700	CY		
20	203	GRANULAR EMBANKMENT, AS PER PLAN (NO. 8 AGGREGATE)	10	CY		
21	203	GRANULAR MATERIAL, TYPE C	20	CY		
22	203	BORROW	2,821	CY		
23	204	EXCAVATION	178	CY		
24	204	GEOTEXTILE FABRIC, 712.09 TYPE A	80	SY		
25	204	GEOTEXTILE FABRIC, 712.09 TYPE D	267	SY		
26	204	SUBGRADE COMPACTION	1,499	SY		
27	206*	LIME STABILIZED SUBGRADE, 42 14 INCHES DEEP, AS PER PLAN	172,500 175,700	SY		
28	206*	LIME	5,000 5,090	TON		
29	206*	CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP, AS PER PLAN	82,000 76,140	SY		
30	206*	CEMENT	2,000 1,590	TON		
31	206*	CURING COAT	45,300 15,110	GAL		
32	206*	TEST ROLLING	130	HOUR		
33	209	DITCH CLEANOUT	14,546	FT		
34	SPECIAL	CHANNEL CLEANOUT	1,496	SY		
35	SPECIAL	CONCRETE CHANNEL CLEANOUT	200	FT		
36	SP304	GRANULAR MATERIAL	178	CY		

PROJECT NO. 39-15-02 BID FORM

Revised Through Addendum No. 2

Ref. No.	Item No.	Item Description	Approx. Quantity	Unit	Unit Cost	Extended Bid Amount
39-15-02 PART A - PAVEMENT (Ref. Nos. 111 - 133)						
111	251	PARTIAL DEPTH PAVEMENT REPAIR	300	SY		
112	252	FULL DEPTH PAVEMENT SAWING	4,500 15,000	FT		
113	254	PAVEMENT PLANING, ASPHALT CONCRETE (3-1/4")	6,408	SY		
114	254	PAVEMENT PLANING, ASPHALT CONCRETE (9")	7,297 3,397	SY		
115	254	PAVEMENT PLANING, ASPHALT CONCRETE (VARIABLE DEPTH)	1,756	SY		
116	255	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS C	400	SY		
117	255	FULL DEPTH PAVEMENT SAWING	1,500	FT		
118	SP302	ASPHALT CONCRETE BASE, PG64-22 (SHOULDER)	18,219	CY		
119	SP302	ASPHALT CONCRETE BASE, PG64-22	51,388	CY		
120	SP304	AGGREGATE BASE (SHOULDER)	20,808	CY		
121	SP304	AGGREGATE BASE	28,217	CY		
122	SP402	ASPHALT CONC. BASE COURSE OR RECYCLED ASPHALT CONC. BASE COURSE, PG64-22	4,159	CY		
123	SP402	ASPHALT CONC. BASE COURSE OR RECYCLED ASPHALT CONC. BASE COURSE, PG70-22 (FR)	8,594	CY		
124	SP404	ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED STONE, PG64-22	3,640	CY		
125	SP404	ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG70-22 (FR)	7,369	CY		
126	SP404A	JOINT SEALER	53,983	FT		
127	SP407	TACK COAT FOR INTERMEDIATE COURSE, AS PER PLAN	15,793	GAL		
128	SP407	TACK COAT, AS PER PLAN	32,107	GAL		
129	617	SHOULDER PREPARATION, AS PER PLAN	29,079	SY		
130	617	COMPACTED AGGREGATE	1,491	CY		
131	SP627	STONE SHOULDER PROTECTION	2,047	TON		
132	SPECIAL	SONIC NAP ALERT PATTERN (SNAP)	16.09	MILE		
133	SPECIAL	SAW CUT JOINT (9"±)	25,939	FT		
TOTAL - 39-15-02 PART A - PAVEMENT						

PROJECT NO. 39-15-02 BID FORM

Revised Through Addendum No. 2

Ref. No.	Item No.	Item Description	Approx. Quantity	Unit	Unit Cost	Extended Bid Amount
39-15-02 PART A - TRAFFIC CONTROL Cont'd (Ref. Nos. 176 - 214)						
181	SP621	RAISED PAVEMENT MARKER - STIMSONITE MODEL 101 LPCR (WHITE)	1,289	EACH		
182	SP621	RAISED PAVEMENT MARKER - STIMSONITE MODEL 101 LPCR (YELLOW)	51	EACH		
183	625	GROUND ROD	15	EACH		
184	SP626	BARRIER REFLECTOR, TYPE B	255	EACH		
185	630	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10x22	215	FT		
186	630	SIGN, SINGLE FACED, MILE MARKER, AS PER PLAN	10	EACH		
187	630	SIGN, SINGLE FACED, TENTH OF MILE MARKER, AS PER PLAN	94	EACH		
188	630	SIGNING, MISC.: SIGN ERECTED, FLAT SHEET	75	EACH		
189	630	SIGNING, MISC.: SIGN ERECTED, EXTRUSHEET	39	EACH		
190	630	SIGN ATTACHMENT ASSEMBLY	75	EACH		
191	630	SIGN BACKING ASSEMBLY	14	EACH		
192	630	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	4	EACH		
193	630	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	45 11	EACH		
194	630	OVERHEAD SIGN SUPPORT, TYPE TC-7.65, DESIGN 6	2	EACH		
195	630	OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 6	2	EACH		
196	630	OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 8	1	EACH		
197	630	OVERHEAD SIGN SUPPORT, TYPE TC-15.115	4	EACH		
198	630	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	44	EACH		
199	630	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	46	EACH		
200	630	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	4	EACH		
201	630	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	8	EACH		
202	630	REMOVAL OF BRIDGE MOUNTED SIGN AND DISPOSAL	2	EACH		
203	630	REMOVAL OF BARRIER MOUNTED SIGN AND DISPOSAL	20	EACH		
204	630	REMOVAL OF BARRIER MOUNTED POST SUPPORT AND DISPOSAL	10	EACH		
205	630	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	39	EACH		
206	630	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-7.65	7	EACH		
207	630	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-12.30	3	EACH		
208	631	REMOVAL MISC.: SIGN LIGHTING AND SIGN SERVICE	7	EACH		
209	642	EDGE LINE, 6", TYPE 1 (WHITE)	32.71	MILE		
210	642	EDGE LINE, 6", TYPE 1 (YELLOW)	32.72	MILE		
211	642	LANE LINE, 6", TYPE 1 (WHITE)	49.79	MILE		
212	642	DOTTED LINE, 6", TYPE I (WHITE)	14,980	FT		
213	642	CHANNELIZING LINE, 6", TYPE 1, (WHITE)	19,264	FT		
214	642	TRANSVERSE/DIAGONAL LINE, 24", TYPE 1, (WHITE)	860	FT		
214A	630	SIGN SUPPORT FOUNDATION	4	EACH		
TOTAL - 39-15-02 PART A - TRAFFIC CONTROL						

PROJECT NO. 39-15-02 BID FORM

Revised Through Addendum No. 2

Ref. No.	Item No.	Item Description	Approx. Quantity	Unit	Unit Cost	Extended Bid Amount
39-15-02 PART A - MAINTENANCE OF TRAFFIC Cont'd (Ref. Nos. 215 - 258)						
256	SP641C	REMOVAL OF PAVEMENT MARKING	95.22	MILE		
257	SPECIAL	"SNAP" MILL AND FILL	30,537 30,087	FT		
258	SPECIAL	EXISTING CROSSOVER TO BE CLOSED / RE-OPENED	4	LUMP		
TOTAL - 39-15-02 PART A - MAINTENANCE OF TRAFFIC						

Ref. No.	Item No.	Item Description	Approx. Quantity	Unit	Unit Cost	Extended Bid Amount
39-15-02 PART B - BRIDGE - MP 216.4 (Ref. Nos. 259 - 274)						
259	SP509	EPOXY COATED REINFORCING STEEL, GRADE 60	100	POUND		
260	513	WELDED STUD SHEAR CONNECTORS, AS PER PLAN	20	EACH		
261	SP516A	CRACK REPAIR USING EPOXY INJECTION	36	LIN FT		
262	SP516B	SEALING OF CONSTRUCTION JOINTS	716	LIN FT		
263	SP527	FALSEWORK, TEMPORARY BRACING AND PROTECTIVE STRUCTURES	1	LUMP		
264	SP536	CONCRETE WEATHERPROOFING, PARAPETS	449	SQ YD		
265	SP536	CONCRETE WEATHERPROOFING, SUBSTRUCTURE	361	SQ YD		
266	SP536	CONCRETE WEATHERPROOFING, DECK, ABUTMENT SLABS AND APPROACH SLABS	1,148	SQ YD		
267	601	CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN	27	SQ YD		
268	642	EDGE LINE, AS PER PLAN	0.12	MILE		
269	SP848	CLASS S CONCRETE OVERLAY USING HYDRODEMOLITION	1,030	SQ YD		
270	SP848	SURFACE PREPARATION USING HYDRODEMOLITION	1,030	SQ YD		
271	SP848	CLASS S CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	22	CU YD		
272	SP848	CLASS S CONCRETE, USING SHRINKAGE COMPENSATING CEMENT, FOR PRE-PLACEMENT TESTING	3	CU YD		
273	SP848	FULL DEPTH REPAIR	6	CU YD		
274	SP848	HAND CHIPPING	103	SQ YD		
TOTAL - 39-15-02 PART B - BRIDGE - MP 216.4						

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

THE JAMES W. SHOCKNESSY OHIO TURNPIKE



PROJECT 39-15-02 (PART A)

RIGHT TWO (2) LANES AND SHOULDER RECONSTRUCTION

MP 216.10 TO MP 218.60

RECONSTRUCTION OF TWO LANES AND SHOULDERS

MP 218.60 TO MP 221.26

TRUMBULL AND MAHONING COUNTIES, OHIO

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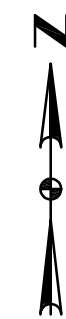
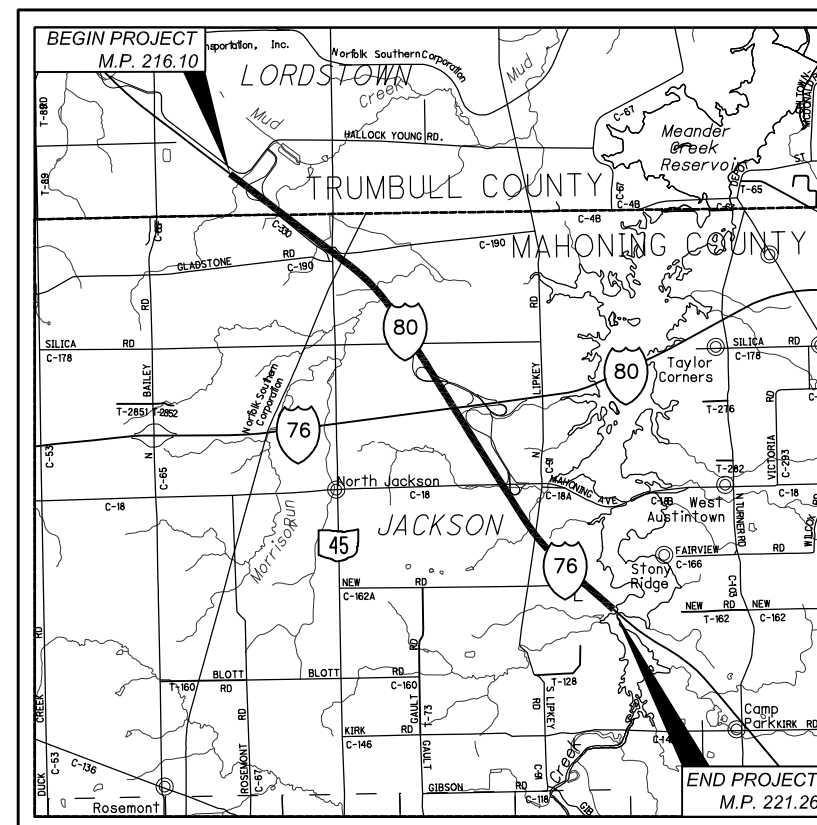
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OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION STANDARD DRAWINGS

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OHIO DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS

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MT-95.31	CLOSING RIGHT LANE OF A MULTI-LANE UNDIVIDED HIGHWAY WITH DRUMS	07/18/14
MT-95.50	SUPPLEMENTAL ADVANCED SIGNS USED WITH LANE CLOSURES	07/19/13
MT-97.10	FLAGGER CLOSING 1 LANE OF A 2-LANE HIGHWAY - STATIONARY OPERATION	07/18/14
MT-98.10	LANE CLOSURE AT ENTRANCE RAMP	07/18/14
MT-99.30	WORK ZONE DELINEATION	07/19/13
MT-100.00	WORK ZONE CROSSOVER LIGHTING SYSTEM	07/19/13
MT-101.90	DROP-OFFS IN WORK ZONES	07/18/14
MT-102.10	LANE SHIFT ON A MULTI-LANE HIGHWAY USING PORTABLE BARRIER	07/18/14
MT-105.10	TEMPORARY SIGN SUPPORT	07/19/13
PCB Y	CONNECTOR SEGMENT	04/16/10
RM-4.1	50" PORTABLE CONCRETE BARRIER	07/19/13
RM-4.2	32" PORTABLE CONCRETE BARRIER	04/18/14
RM-4.4	SINGLE SLOPE BARRIER TRANSITIONS	07/18/14
RM-4.5	SINGLE SLOPE BARRIER	07/18/14
RM-4.6	CONCRETE BARRIER END SECTIONS	07/19/13
TC-7.65	ALUMINUM TRUSS OVERHEAD SIGN SUPPORT	10/18/13
TC-12.3	CANTILEVER OVERHEAD SIGN SUPPORT	10/18/13
TC-15.115	STEEL TRUSS OVERHEAD SIGN SUPPORT	10/18/13
TC-21.10	FOUNDATION	10/18/13
TC-21.20	FOUNDATIONS	10/18/13
TC-22.10	MISCELLANEOUS OVERHEAD SIGN SUPPORT DETAILS	10/18/13
TC-22.20	SIGN ATTACHMENT ASSEMBLIES	01/17/14
TC-41.10	STRUCTURAL BEAM SIGN SUPPORTS	07/19/13
TC-41.20	YIELDING POST	10/18/13
TC-41.25	LAMINATED VENEER WOODEN BOX BEAM SIGN SUPPORT	10/18/13
TC-41.50	ONE WAY SIGN SUPPORT DETAILS	10/18/13
TC-42.10	TYPICAL GUIDE SIGN PLACEMENT	10/18/13
TC-42.20	TYPICAL FLAT SHEET SIGN PLACEMENT	10/18/13
TC-51.11	ALUMINUM BOLTED EXTRUSHEET PANEL SIGN	01/17/14
TC-52.10	SIGN BLANK DETAILS I	10/18/13
TC-52.20	SIGN BLANK DETAILS II	07/18/14
TC-71.10	WORDS AND SYMBOL PAVEMENT MARKINGS	01/17/14
TC-72.20	FREEWAY ENTRANCE AND EXIT PAVEMENT MARKINGS	07/18/14
MGS-1.1	GUARDRAIL DETAILS	07/19/13
MGS-2.1	MIDWEST GUARDRAIL SYSTEM, STANDARD TYPE MGS	07/19/13
MGS-3.1	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	07/18/14
MGS-3.2	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	01/18/13
MGS-4.2	TYPE T ANCHOR ASSEMBLY	07/19/13
MGS-4.3	GUARDRAIL TRANSITIONS	01/18/13
MGS-5.2	INTRODUCTION OF GUARDRAIL RUNS (FORESLOPES 6:1 OR FLATTER)	07/19/13
MGS-5.3	INTRODUCTION OF GUARDRAIL RUNS (FORESLOPES 6:1 OR STEEPER)	07/19/13
MGS-6.1	GUARDRAIL AT BRIDGES	07/19/13
MGS-6.2	MGS GUARDRAIL AT PIERS	01/18/13
BR-1-13	NEW JERSEY SHAPE CONCRETE BRIDGE RAILING	01/17/14
CSB-1-47	CONTINUOUS STEEL BEAM BRIDGES	08/25/49
FB-1-82	FIXED BEARINGS FOR STEEL BEAM AND GIRDER BRIDGES	05/10/82
FSB-1-62	FIXED & SLIDING BEARINGS	01/15/63
RB-1-55	ROCKERS AND BOLSTERS FOR STEEL BEAM AND GIRDER BRIDGES	07/19/13



APPROVED FOR
THE OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION
BY
Anthony D. Young
CHIEF ENGINEER
12-29-14
DATE

UNDERGROUND UTILITIES
CONTACT BOTH SERVICES
CALL TWO WORKING DAYS
BEFORE YOU DIG
CALL
1-800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY
OIL & GAS PRODUCERS PROTECTIVE
SERVICE CALL: 1-800-925-0988
OHIO TURNPIKE DIVISION SUPERINTENDENT:
Eastern (440) 234-2081 X 5700
Western (440) 234-2081 X 5300

ENGINEERS SEAL:
FOR ENTIRE PLAN
WILLIAM D. BAKER, JR.
REGISTERED PROFESSIONAL ENGINEER
SIGNED: *William D. Baker, Jr.*
DATE: 12/29/14

ADDENDUM NO. 2 MZP 1/23/15
REVISIONS BY DATE
DESIGN CONTRACT NO. 71-14-08
PLAN PREPARED BY:
CT Consultants
engineers | architects | planners
8159 Sterling Court Mentor, Ohio 44060
440.957.9000 www.ctconsultants.com

ROADWAY (CONTINUED)

ITEM 206 - CHEMICALLY STABILIZED SUBGRADE (CONT'D)

3. BOX CULVERTS WHERE DEPTH OF COVER IS LESS THAN 2 FEET:

EXCAVATE 16 INCHES OF THE EXPOSED SOIL SUBGRADE FROM THE EDGE OF THE BOX CULVERT TO 20 FEET BEYOND THE END OF THE BOX CULVERT AND SPREAD THE EXCAVATED SOIL IN AN AREA TO BE CHEMICALLY STABILIZED. PERFORM CHEMICAL STABILIZATION ON THE EXCAVATED SOIL USING SAME REQUIREMENTS AS THE ADJACENT SUBGRADE. AFTER CHEMICALLY STABILIZING THE EXCAVATED SOIL, PLACE THE EXCAVATED SOIL BACK IN THE EXCAVATION FROM THE EDGE OF THE BOX CULVERT TO 20 FEET BEYOND THE BOX CULVERT AND COMPACT ACCORDING TO PROJECT SPECIFICATIONS.

COMPACT THE EXISTING SUBGRADE MATERIAL OVER THE BOX CULVERT USING A NON-VIBRATORY ROLLER AND TEST FOR PERCENT COMPACTION ACCORDING TO THE PROJECT SPECIFICATIONS. DO NOT PROOF ROLL. IF THE COMPACTED SOIL DOES NOT MEET THE SPECIFICATION REQUIREMENTS FOR DENSITY, THE ENGINEER WILL DELINEATE THE AREA TO BE UNDERCUT AND BACKFILL WITH ITEM SP304 MATERIAL.

FOR ALL SCENARIOS LISTED ABOVE IN AREAS INACCESSIBLE TO THE SPECIFIED COMPACTION EQUIPMENT, THE CONTRACTOR SHALL ENSURE THAT THE SPECIFIED COMPACTION IS OBTAINED USING OTHER SUITABLE EQUIPMENT.

PAYMENT FOR EXCAVATION AND EMBANKMENT REQUIRED TO COMPLETE THE STABILIZATION IN THE AREAS SHALL BE INCLUDED IN AND INCIDENTAL TO ITEMS 206 -CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP, OR 206 - LIME STABILIZED SUBGRADE, 14 INCHES DEEP, AS PER PLAN.

SHALLOW BEDROCK STABILIZATION

THIS WORK SHALL COMPLY WITH ALL REQUIREMENTS SPECIFIED IN ITEM 203 - ROADWAY EXCAVATION AND EMBANKMENT OF ODOT 2013 CMS EXCEPT AS NOTED BELOW:

1. STABILIZE 12 INCHES THROUGH THE SHALLOW BEDROCK AREA UNTIL 12 INCHES OF STABILIZATION CANNOT BE ACHIEVED PER ODOT ITEM 206.
2. EXCAVATE BEDROCK TO A DEPTH OF 12 INCHES BELOW PLAN SUBGRADE ELEVATION.
3. BACKFILL UNDERCUT EXCAVATIONS WITH BORROW SOIL MEETING THE REQUIREMENTS OF 203.02 AND 203.03 AND SHALL HAVE A SULFATE CONTENT LESS THAN 3,000 PPM AS DETERMINED BY TEX-145-E METHOD. FURNISH THE CHIEF ENGINEER WITH BULK SOIL SAMPLES FOR EVERY 2,000 CY OF EACH SOIL TYPE OBTAINED FROM A GIVEN BORROW SITE. ALLOW 7 DAYS FOR CHIEF ENGINEER TO PERFORM SULFATE CONTENT OF PROPOSED BORROW MATERIALS.
4. BACKFILL UNDERCUT EXCAVATIONS ACCORDING TO 203.07
5. CHEMICALLY STABILIZE EMBANKMENT PER ODOT ITEM 206 USING 4% PORTLAND CEMENT BY DRY UNIT WEIGHT AT A TREATMENT DEPTH OF 10 INCHES.

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK DESCRIBED ABOVE FOR THE REMOVAL AND REPLACEMENT OF SHALLOW BEDROCK:

ITEM 203 - ROCK EXCAVATION, AS PER PLAN
ITEM 203 - EMBANKMENT, AS PER PLAN

3,700 CY
3,700 CY

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK UNDER ITEM 206 - CHEMICALLY STABILIZED SUBGRADE, AS PER PLAN:

ITEM 206 - LIME STABILIZED SUBGRADE, 14 INCHES DEEP, AS PER PLAN

175,700 SY

ITEM 206 - LIME

5,090 TON

ITEM 206 - CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP, AS PER PLAN

76,140 SY

ITEM 206 - CEMENT

1,590 TON

ITEM 206 - CURING COAT

15,110 GAL

ITEM 206 - TEST ROLLING

130 HOURS

THE FOLLOWING CONTINGENCY QUANTITIES SHALL BE USED TO UNDERCUT AND REPLACE THE UNSTABLE SUBGRADE SOILS AS DESCRIBED ABOVE. THE FOLLOWING QUANTITIES ARE BASED ON 100 LF X 24 FT WIDE X 2 FT DEEP AREA:

ITEM 204 - EXCAVATION

178 CY

ITEM SP304 - GRANULAR MATERIAL

178 CY

ITEM 204 - SUBGRADE COMPACTION

267 SY

ITEM 204 - GEOTEXTILE FABRIC, 712.09 TYPE D

267 SY

ITEM 861 - GEOGRID FOR SUBGRADE STABILIZATION, AS PER PLAN, TENSAR TRIAX 160 GEOGRID

267 SY

ITEM 209 - DITCH CLEANOUT

THIS ITEM SHALL CONSIST OF FIELD SURVEY, CLEARING, EXCAVATION AND EMBANKMENT AS NECESSARY TO REESTABLISH THE CROSS SECTION OF THE EXISTING DITCHES AS DIRECTED BY THE CHIEF ENGINEER. THIS ITEM SHALL ALSO CONSIST OF THE REPLACEMENT OF ANY EXISTING DITCH CHECKS THAT MAY HAVE BEEN INSTALLED BY THE CONTRACTOR PER THE STORM WATER POLLUTION PREVENTION PLAN PRIOR TO PERFORMANCE OF DITCH CLEANOUT WORK. PAYMENT FOR THIS ITEM WILL BE AT UNIT BID PRICE PER LINEAR FOOT FOR ITEM 209 - DITCH CLEANOUT AND SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THIS ITEM. ALL MAINTENANCE OF TRAFFIC NECESSARY TO COMPLETE THIS ITEM SHALL BE CONSIDERED INCIDENTAL TO ITEM SP 614 - MAINTAINING TRAFFIC.

THE FOLLOWING CONTINGENCY QUANTITY IS PROVIDED IN THE GENERAL SUMMARY IN ADDITION TO THAT CALLED OUT ELSEWHERE FOR USE AS DIRECTED BY THE ENGINEER.

ITEM 209 - DITCH CLEANOUT

5000 FT

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E, AS PER PLAN

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ODOT ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. INSTALL THIS ASSEMBLY AT A 25:1 MAXIMUM FLARE RATE SO THAT THE INSIDE EDGE OF THE IMPACT HEAD IS NO CLOSER THAN 6 INCHES FROM THE OUTER EDGE OF THE SHOULDER.

THE COMMISSION SHALL SUPPLY A TYPE G REFLECTIVE SHEETING PER CMS 730.19 MOUNTED ON A PIECE OF ALUMINUM. THE CONTRACTOR SHALL RIVET THE ALUMINUM TO THE FACE OF THE TYPE E IMPACT HEAD.

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

ON SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES NOT PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE. PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606. ANCHOR ASSEMBLY, MGS TYPE E, AS PER PLAN, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 617 - SHOULDER PREPARATION, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ITEM 617.04 OF THE SPECIFICATIONS, THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

THE SUBGRADE SHALL BE COMPACTED IN ACCORDANCE WITH ITEM 204 - SUBGRADE COMPACTION IMMEDIATELY PRIOR TO PLACING THE AGGREGATE AND AFTER THE SUBGRADE IS SHAPED OR BLADED TO GIVE A STRAIGHT VERTICAL EDGE WITH THE ADJACENT DIRT. THE ENTIRE THICKNESS OF AGGREGATE SHALL BE SUPPORTED ALONG THE OUTER EDGE WITH TOPSOIL AND FILL DIRT THAT IS CONSISTENT WITH THE FORE SLOPE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID PER SQUARE YARD FOR ITEM 617- SHOULDER WORK PREPARATION, AS PER PLAN, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THIS WORK.

ITEM SPECIAL - CONCRETE CHANNEL CLEANOUT

THIS WORK SHALL CONSIST OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING CONCRETE CHANNEL SPECIFIED IN THE PLANS. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS PER SP 105. ALL EXISTING CONCRETE CHANNELS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE CHIEF ENGINEER.

CLEANOUT OF THE CONCRETE CHANNEL SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - CONCRETE CHANNEL CLEANOUT, FOOT. THIS PRICE SHALL INCLUDE THE COST FOR MATERIAL DISPOSAL, EQUIPMENT, LABOR AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

ITEM SPECIAL - CHANNEL CLEANOUT

THIS WORK SHALL CONSIST OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING CHANNELS SPECIFIED IN THE PLANS. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS PER SP 105. ALL CHANNELS SPECIFIED SHALL BE CLEANED OUT TO THE SATISFACTION OF THE CHIEF ENGINEER.

CLEANOUT OF THE CHANNEL SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - CHANNEL CLEANOUT, SQ YD. THIS PRICE SHALL INCLUDE THE COST FOR MATERIAL DISPOSAL, EQUIPMENT, LABOR AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

ITEM 202 - FENCE REMOVED

ITEM 607 - FENCE, TYPE 47, AS PER PLAN

CONTINGENCY QUANTITIES FOR FENCE REMOVAL AND REPLACEMENT HAVE BEEN INCLUDED PLANS FOR USE AS DIRECTED BY THE ENGINEER. CLEARING OF BRUSH NECESSARY FOR INSTALLATION SHALL BE INCIDENTAL TO THE COST PER FOOT OF FENCE.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 202 - FENCE REMOVED 500 FT
ITEM 607 - FENCE, TYPE 47, AS PER PLAN 500 FT

ITEM 202 - PAVEMENT REMOVED, AS PER PLAN

REMOVAL OF EXISTING ASPHALT CURB SHALL BE CONSIDERED INCIDENTAL TO PAVEMENT REMOVAL.

EROSION CONTROL

SEEDING & MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

ITEM 659 - SOIL ANALYSIS TEST 15 EACH
ITEM 659 - TOPSOIL 15,370 CY
ITEM 659 - SEEDING AND MULCHING 138,400 SY
ITEM 659 - REPAIR SEEDING AND MULCHING 6,920 SY
ITEM 659 - INTER-SEEDING 6,920 SY
ITEM 659 - COMMERCIAL FERTILIZER 18.68 TON
ITEM 659 - LIME 28.6 ACRES
ITEM 659 - WATER 750 M GAL

ITEM 659 - TOPSOIL IS ONLY APPLICABLE WHEN TOPSOIL IS PHYSICALLY REMOVED FROM THE SLOPES AND MOVED TO A CONSTRUCTED TOP SOIL STOCK PILE SOLELY FOR THE PURPOSE OF TEMPORARY STORAGE PRIOR TO REUSE. SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON AN ASSUMED LIMIT 10' BEYOND THE EDGE OF THE OUTSIDE SHOULDER FOR THE LENGTH OF THE PROJECT, THE 32' MEDIAN WIDTH, A WIDTH OF 20' PER RUNNING FOOT OF DITCH CLEANOUT, SLOPE REPAIR AREAS, AND ON THE SLOPES WHERE DRAIN PIPE PLACEMENT OCCURS. FOR THE PURPOSES OF THE DRAIN PIPE PLACEMENT AREA CALCULATIONS, A WIDTH OF 30' AND A LENGTH OF 37' WAS ASSUMED FOR EACH OF THE PIPE PLACEMENT AREAS AND A WIDTH OF 10' AND A LENGTH OF 10' WAS ASSUMED FOR EACH OF THE UNDERDRAIN OUTLETS.

ITEM 207 - PERIMETER FILTER FABRIC FENCE

FILTER FABRIC SHALL MEET THE REQUIREMENTS OF ITEM 207.02.

THE BOTTOM OF THE FENCE SHALL BE BURIED 6" BELOW THE GROUND. THE FENCE SHALL BE HIGH ENOUGH TO RETAIN SEDIMENT LADEN WATER AND ADEQUATELY SUPPORTED TO PREVENT COLLAPSE OR BURSTING. THE GROUND ELEVATION OF THE FENCE SHALL BE HELD CONSTANT EXCEPT THAT THE END ELEVATION SHALL BE RAISED TO PREVENT FLOW AROUND THE END OF THE FENCE.

THE FILTER FABRIC SHALL BE MAINTAINED TO BE FUNCTIONAL. THIS SHALL INCLUDE REMOVAL OF TRAPPED SEDIMENT AND REQUIRED CLEANING, REPAIR AND/OR REPLACEMENT OF THE FILTER FABRIC.

THE COST OF ALL MATERIALS, CONSTRUCTION, MAINTENANCE AND REMOVAL REQUIRED SHALL BE PAID FOR UNDER ITEM 207 - PERIMETER FILTER FABRIC FENCE.

Drawing File: I:\2014\14138\OTIC\DWG\14138R01.dwg, Layout: 20
Date: Jan 21, 2015 Time: 4:28 pm User: 1572933

Technician: pifer


ADDENDUM NO. 1	DLF	1/14/15
ADDENDUM NO. 2	MZP	1/23/15
NO.	REVISIONS	BY DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION GENERAL NOTES		
CT Consultants <small>engineers architects planners</small>		
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: AUG, 2014
DRAWN: M.Z.P.	IN CHARGE: W.D.B.	SCALE: N/A
PROJECT 39-15-02A SHEET 20 OF 419		

SHEET NUMBER																				ITEM	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.		
23	24	25	36	37	38		39	40	41	42	43	44	45		46	47	48	49	50						51	
																								MAINTENANCE OF TRAFFIC		
																						SP622A	1	LUMP	32" TEMPORARY PORTABLE BARRIER (WITHOUT GLARE SCREEN)	26
																						SP622A	1	LUMP	32" TEMPORARY PORTABLE BARRIER (WITH GLARE SCREEN)	26
	400																					SP626	400	EACH	BARRIER REFLECTOR, TYPE A (WHITE)	27
	350																					SP626	350	EACH	BARRIER REFLECTOR, TYPE B (WHITE)	27
							568	352	135	610					451	346	529	352				SP626A	3,343	EACH	CONSTRUCTION ZONE MARKER, ONE-WAY MODEL, WHITE	
							568	352	70	610					451	346	53	408				SP626A	2,858	EACH	CONSTRUCTION ZONE MARKER, ONE-WAY MODEL, YELLOW	
	500																					630	500	SF	SIGNING, MISC.: ADDITIONAL SIGNS WITH SUPPORTS, AS DIRECTED BY THE CHIEF ENGINEER	27
			0.53	6.58	0.71		11.82	11.31	3.36	13.48	5.86				20.30	14.94	3.65	2.68				SP641C	95.22	MILE	REMOVAL OF PAVEMENT MARKING	27
			1,609																			SPECIAL	30,087	FT	"SNAP" MILL AND FILL	27
																						SPECIAL	4	LUMP	EXISTING CROSSOVER TO BE CLOSED / RE-OPENED	27

28,478
2

30,087
4

DESIGNED BY: M.Z.P. | CHECKED BY: _____
 DATE: 10/23/14 | DATE: _____
 DRAWN BY: M.Z.P. | REVISED BY: _____
 DATE: 10/23/14 | DATE: _____
 CAD FILE NAME: 14139MOTQNTPH1.DWG

ADDENDUM NO. 2		M.Z.P. 1/23/15	
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION MAINTENANCE OF TRAFFIC GENERAL SUMMARY			
 CT Consultants <small>engineers architects planners</small>			
DESIGNED:	M.Z.P.	CHECKED:	W.D.B. DATE: OCT. 2014
DRAWN:	M.Z.P.	IN CHARGE:	W.D.B. SCALE: NONE
PROJECT 39-15-02A SHEET 35 OF 419			

DESIGNED BY: M.Z.P. | CHECKED BY: M.Z.P. | DATE: 10/23/2014
 DRAWN BY: M.Z.P. | REVISIONS: | DATE: 10/23/2014
 CAD FILE NAME: 14138MOTQNTPH2.DWG

SHEET NO.	REFERENCE ITEM	LOCATION	STATION		SIDE	254	SP 404	407	606	606	606	606	614	615	SP622A	SPECIAL	SPECIAL
			PAVEMENT PLANING, ASPHALT CONCRETE (5-3/4" AVE.)	SY		SY	GAL	FT	EACH	EACH	EACH	EACH	SY	FT	LUMP	FT	
PHASE 2																	
CROSSOVER CLOSED/RE-OPENED																	
126	MEDIAN BARRIER	I-80 EB/WB	518+66	521+46	CL									280		1	
129	MEDIAN BARRIER	I-80 EB/WB	20+03	21+83	CL									180		1	
MILL AND FILL																	
126-132	SMF	I-80 EB	516+30	564+18	RT												4788
	SMF	I-80/90 EB	0+00	94+00	RT												9400
126-134	SMF	I-80 WB	516+30	564+18	LT												4788
	SMF	I-80 WB	0+00	91+00	LT												9100
142	SMF	I-76 WB	241+20	242+75	LT												155
142	SMF	I-76 EB	248+50	250+97	RT												247
LIGHTING SYSTEM																	
126	LIGHTING	I-80 EB/WB	516+30	522+89	RT/LT							1					
142	LIGHTING	I-76 EB	241+20	250+98	LT/RT							1					
GUARD RAIL																	
142	GR	I-76 EB	240+62	244+50	LT				538	1	1	1					
PAVEMENT																	
143	TP	I-80 EB EXITRAMP	413+90	416+50	LT								177				
PAVEMENT PLANING AND RESURFACING																	
100-101	PP&R	I-80 EB/WB	111+20	116+20	LT/RT	1262	1262	95									
101	PP&R	I-76 EB/WB	123+75	128+25	LT/RT	1084	1084	81									
SHEET SUB-TOTALS						2,346	2,346	176	538	1	1	1	2	177	460	2	28,478
TOTALS CARRIED TO MAINTENANCE OF TRAFFIC GENERAL SUMMARY SHEET 34-35						2346	2346	176	538	1	1	1	2	177	460	2	28,478

ADDENDUM NO. 2 | MZP | 1/23/15

NO.	REVISIONS	BY	DATE

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

MAINTENANCE OF TRAFFIC SUB-SUMMARY

CT Consultants
 engineers | architects | planners

DESIGNED: M.Z.P. | CHECKED: W.D.B. | DATE: OCT. 2014
 DRAWN: M.Z.P. | IN CHARGE: W.D.B. | SCALE: NONE

PROJECT 39-15-02A SHEET 45 OF 419

SHEET NUMBER																	ITEM	GRAND TOTAL	UNIT	DESCRIPTION	REF. NO.	
18	19	20	21	22	211	213	214	216	219	220	221	222	224	225	279	PIS-1				ROADWAY		
LUMP																		201	1	LUMP	CLEARING AND GRUBBING	18
50																		201	50	EACH	TREE REMOVED, 18" SIZE	
5																		201	5	EACH	TREE REMOVED, 30" SIZE	
																		202	2,462	FT	PIPE REMOVED	
																		202	53	EACH	CATCH BASIN OR INLET REMOVED	
																		202	1	EACH	MANHOLE REMOVED	
		500																202	500	FT	FENCE REMOVED	
					27,794													202	27,794	FT	GUARDRAIL REMOVED, AS PER PLAN	19
																		202	1,224	SY	APPROACH SLAB REMOVED	
																		202	760	FT	CONCRETE BARRIER REMOVED	
					1,224													202	760	FT	CONCRETE BARRIER REMOVED	
					760													202	330	FT	GUTTER REMOVED	
					330													202	330	FT	GUTTER REMOVED	
																		202	241,596	SY	PAVEMENT REMOVED, AS PER PLAN	20
																		203	241,596	SY	PAVEMENT REMOVED, AS PER PLAN	
																		203	81,157	CY	EXCAVATION	
																		203	28,281	CY	EXCAVATION, AS PER PLAN	19
																		203	3,700	CY	ROCK EXCAVATION, AS PER PLAN	20
																		203	3,700	CY	ROCK EXCAVATION, AS PER PLAN	20
																		203	1,650	CY	ROCK EXCAVATION FOR UNDERDRAIN INSTALLATION, AS PER PLAN	19
																		203	1,538	CY	EXCAVATION FOR SLOPE EROSION PROTECTION	
																		203	5,641	CY	EXCAVATION INCLUDING EMBANKMENT, AS PER PLAN	PIS-1
																		203	5,641	CY	EXCAVATION INCLUDING EMBANKMENT, AS PER PLAN	
																		203	35,688	CY	EMBANKMENT	
																		203	3,700	CY	EMBANKMENT, AS PER PLAN	19, 20
																		203	10	CY	GRANULAR EMBANKMENT, AS PER PLAN (NO. 8 AGGREGATE)	PIS-1
																		203	20	CY	GRANULAR MATERIAL, TYPE C	
																		203	2,821	CY	BORROW	
																		204	178	CY	EXCAVATION	
																		204	80	SY	GEOTEXTILE FABRIC, 712.09 TYPE A	
																		204	267	SY	GEOTEXTILE FABRIC, 712.09 TYPE D	
																		204	1,499	SY	SUBGRADE COMPACTION	
																		206	175,700	SY	LIME STABILIZED SUBGRADE, 14 INCHES DEEP, AS PER PLAN	19, 20
																		206	5,090	TON	LIME	
																		206	76,140	SY	CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP, AS PER PLAN	19, 20
																		206	1,590	TON	CEMENT	
																		206	15,110	GAL	CURING COAT	
																		206	130	HOUR	TEST ROLLING	
																		209	14,546	FT	DITCH CLEANOUT	
																		SPECIAL	1,496	SY	CHANNEL CLEANOUT	20
																		SPECIAL	200	FT	CONCRETE CHANNEL CLEANOUT	20
																		SP304	178	CY	GRANULAR MATERIAL	
																		SP526	1,220	SY	CLASS C CONCRETE, APPROACH SLAB, USING TYPE I CEMENT (T=12")	
																		SP536	937	SY	CONCRETE WEATHERPROOFING, BARRIERS AND PARAPETS	19
																		606	26,225	FT	GUARDRAIL, TYPE MGS, USING LONG STEEL POSTS	
																		606	26	EACH	ANCHOR ASSEMBLY, MGS TYPE T, USING LONG STEEL POSTS	
																		606	28	EACH	ANCHOR ASSEMBLY, MGS TYPE E, USING LONG STEEL POSTS, AS PER PLAN	20
																		606	26	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1, USING LONG STEEL POSTS	
																		606	9	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
																		606	75	FT	GUARDRAIL, BARRIER DESIGN, TYPE MGS	
																		606	2	FT	IMPACT ATTENUATOR, TYPE 1, (BIDIRECTIONAL), AS PER PLAN	19
																		606	25	FT	GUARDRAIL REBUILT	19
																		607	500	FT	FENCE, TYPE 47, AS PER PLAN	20
																		609	3,796	FT	ASPHALT CONCRETE CURB, TYPE 1, PG64-22	
																		609	244	FT	CURB, TYPE 4-C	
																		622	438	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN	18
																		622	340	FT	CONCRETE BARRIER, TYPE B-50, AS PER PLAN	18
																		622	80	FT	CONCRETE BARRIER, TYPE C-50, AS PER PLAN	18
																		622	152	FT	PORTABLE CONCRETE BARRIER, 32", AS PER PLAN	23
																		SP626	317	EACH	BARRIER REFLECTOR, TYPE A	
																		SP626	281	EACH	BARRIER REFLECTOR, TYPE B	
																		861	267	SY	GEOGRID FOR SUBGRADE STABILIZATION, AS PER PLAN, TENSAR TRIAX 160 GEOGRID	19, 20
																		SPECIAL	2,500	CY	LIMESTONE SAND	

DESIGNED BY: WDB
 DATE: 11/2014
 DRAWN BY: DLF
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 CHECKED BY: WDB
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 CAD FILE NAME: 14138GENERALSUMMARY.DWG

ADDENDUM NO. 1	DLF	1/14/15
ADDENDUM NO. 2	MZP	1/23/15
NO. REVISIONS BY DATE		
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION GENERAL SUMMARY		
CT Consultants engineers architects planners		
DESIGNED: WDB	CHECKED: JMP	DATE: NOV, 2014
DRAWN: DLF	IN CHARGE: WDB	SCALE: NONE
PROJECT 39-15-02A SHEET 207 OF 419		

STATION TO STATION	SIDE	LENGTH	PAVEMENT WIDTH (AVG.)	SHOULDER WIDTH	SURFACE AREA	APPROACH SLAB AREA	AREA BY COMPUTER	202	203	204	SPECIAL	254	254	SP302				SP304				SP402		SP404		SP404A	SP407		SPECIAL		
								PAVEMENT REMOVED, AS PER PLAN	EXCAVATION (T=6-3/4" +/- MAINLINE PAT. T=15-3/4" +/- SHOULDERS T=14" +/- APPROACH SLABS)	SUBGRADE COMPACTION	SAW CUT JOINT (9" +/-)	PAVEMENT PLANING, ASPHALT CONCRETE (3-1/4")	PAVEMENT PLANING, ASPHALT CONCRETE (9")	8" ASPHALT CONCRETE BASE, PG 64-22 (SHOULDER)	10-1/2" ASPHALT CONCRETE BASE, PG 64-22	11-1/2" ASPHALT CONCRETE BASE, PG 64-22	5-3/4" ASPHALT CONCRETE BASE, PG64-22	8-1/2" AGGREGATE BASE (SHOULDER)	9-1/2" AGGREGATE BASE (SHOULDER)	6" AGGREGATE BASE	12" AGGREGATE BASE	1-3/4" ASPHALT CONCRETE BASE COURSE OR RECYCLED ASPHALT CONCRETE BASE COURSE, PG64-22	1-3/4" ASPHALT CONCRETE BASE COURSE OR RECYCLED ASPHALT CONCRETE BASE COURSE, PG70-22 (FR)	1-1/2" ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED STONE, PG64-22	1-1/2" ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG70-22 (FR)	JOINT SEALER	TACK COAT FOR INTERMEDIATE COURSE, AS PER PLAN (0.06 GAL./S.Y.)	TACK COAT, AS PER PLAN (0.075 GAL./S.Y.)	SONIC NAP ALERT PATTERN (SNAP)		
FT	FT	FT	SF	SF	SF	SY	SY	SY	FT	SY	SY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	FT	GAL.	GAL.	MILE						
OUTSIDE TWO LANES AND OUTSIDE SHOULDER																															
528+85.0	555+05.9	LT	2620.9	25.00	65522			6989	1438																						
528+85.0	555+05.9	LT	2620.9		23588			2913	1196																						
555+05.9	562+96.8	LT	790.9	42.29			33445	3629	719																						
555+05.9	562+96.8	LT	790.9	7.00	5537			704	285																						
562+96.8	564+18.1	LT	121.3	25.00	3032			324	67																						
562+96.8	564+18.1	LT	121.3	9.00	1092			135	56																						
00+00.0	27+23.1	LT	2723.1	25.00	68077			7262	1494																						
00+00.0	27+23.1	LT	2723.1	9.00	24508			3026	1243																						
27+23.1	27+42.2	LT	19.2						49																						
29+54.6	29+73.8	LT	19.2						50																						
29+73.8	33+11.9	LT	338.1	25.00	8452			902	186																						
29+73.8	33+11.9	LT	338.1	9.00	3043			376	155																						
33+11.9	33+27.2	LT	15.3						39																						
34+67.2	34+82.5	LT	15.3						40																						
34+82.5	54+23.4	LT	1940.9	25.00	48524			5176	1065																						
34+82.5	54+23.4	LT	1940.9	9.00	17469			2157	886																						
54+23.4	62+63.4	LT	840.0	31.00	26040			2800	566																						
54+23.4	62+63.4	LT	840.0	9.00	7560			934	384																						
62+63.4	82+09.4	LT	1946.0	37.00	72002			7784	1555																						
62+63.4	82+09.4	LT	1946.0	9.00	17514			2163	888																						
82+09.4	83+60.0	LT	150.6	38.50	5799			628	125																						
82+09.4	83+60.0	LT	150.6	9.00	1356			168	69																						
83+60.0	90+93.7	LT	733.7	47.35	34743			3779	745																						
83+60.0	90+93.7	LT	733.7	9.00	6604			816	335																						
TWO LANES AND INSIDE/OUTSIDE SHOULDER																															
90+93.7	92+00.0	LT	106.3	57.51	6112			656																							
90+93.7	92+00.0	LT	106.3	18.00	1913			213																							
92+00.0	95+59.4	LT	359.4	60.41	21711			2333																							
92+00.0	95+59.4	LT	359.4	18.00	6470			719																							
95+59.4	111+08.3	LT	1548.9	26.00	40273			4131																							
95+59.4	111+08.3	LT	1548.9	18.00	27881			3098																							
111+08.3	116+97.3	LT	589.0	48.85	28769			3066																							
111+08.3	116+97.3	LT	589.0	16.00	9424			1178																							
120+55.8	123+25.0	LT	269.2	38.00	10231			1077																							
120+55.8	123+25.0	LT	269.2	16.00	4308			539																							
123+25.0	124+25.0	LT	100.0	32.00	3200			334																							
123+25.0	124+25.0	LT	100.0	17.00	1700			260																							
124+25.0	131+75.0	LT	750.0	26.00	19500			2000																							
124+25.0	131+75.0	LT	750.0	18.00	13500			2500																							
131+75.0	158+66.6	LT	2691.6	26.00	69983			7178																							
131+75.0	158+66.6	LT	2691.6	18.00	48450			5384																							
158+66.6	158+84.1	LT	17.5																												
160+96.4	161+13.9	LT	17.5																												
161+13.9	237+19.0	LT	7605.1	26.00	197732			20281																							
161+13.9	237+19.0	LT	7605.1	18.00	136892			15211																							
TOTALS CARRIED TO SHEET 219								122823	13635	616	12209	0	1699	9036	12886	12983	277	6945	3358	14143	208	1946	4309	1670	3693	26232	7716	15999	7.70		

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 DATE: 11/2014
 DRAWN BY: DLF
 DATE: 11/2014
 CAD FILE NAME: 14139-ROADWAY-SUBSUMMARY.DWG

ADDENDUM NO. 1	DLF	1/14/15
ADDENDUM NO. 2	MZP	1/23/15
NO.	REVISIONS	BY DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PAVEMENT SUBSUMMARY		
CT Consultants engineers architects planners		
DESIGNED: WDB	CHECKED: JMP	DATE: NOV., 2014
DRAWN: DLF	IN CHARGE: WDB	SCALE: NONE
PROJECT 39-15-02A SHEET 217 OF 419		

STATION TO STATION	SIDE	LENGTH FT	PAVEMENT WIDTH FT	SHOULDER WIDTH FT	SURFACE AREA SF	APPROACH SLAB AREA SF	AREA BY COMPUTER SF	202	203	204	SPECIAL	254	254	SP302			SP304			SP402		SP404		SP404A	SP407		SPECIAL			
								PAVEMENT REMOVED, AS PER PLAN SY	EXCAVATION (T=6-3/4' +/- MAINLINE PAV. T=15-3/4' +/- SHOULDERS I=14' +/- APPROACH SLABS) CY	SUBGRADE COMPACTION SY	SAW CUT JOINT (9" +/-) FT	PAVEMENT PLANING, ASPHALT CONCRETE (3-1/4") SY	PAVEMENT PLANING, ASPHALT CONCRETE (9") SY	8" ASPHALT CONCRETE BASE, PG 64-22 (SHOULDER) CY	10-1/2" ASPHALT CONCRETE BASE, PG 64-22 CY	11-1/2" ASPHALT CONCRETE BASE, PG 64-22 CY	5-3/4" ASPHALT CONCRETE BASE, PG64-22 CY	8-1/2" AGGREGATE BASE (SHOULDER) CY	9-1/2" AGGREGATE BASE (SHOULDER) CY	6" AGGREGATE BASE CY	12" AGGREGATE BASE CY	1-3/4" ASPHALT CONCRETE BASE COURSE OR RECYCLED ASPHALT CONCRETE BASE COURSE, PG64-22 CY	1-3/4" ASPHALT CONCRETE BASE COURSE OR RECYCLED ASPHALT CONCRETE BASE COURSE, PG70-22 (FR) CY	1-1/2" ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED STONE, PG64-22 CY	1-1/2" ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG70-22 (FR) CY	JOINT SEALER FT	TACK COAT FOR INTERMEDIATE COURSE, AS PER PLAN (0.06 GAL./S.Y.) GAL	TACK COAT, AS PER PLAN (0.075 GAL./S.Y.) GAL	SONIC NAP ALERT PATTERN (SNAP) MILE	
OUTSIDE TWO LANES AND OUTSIDE SHOULDER																														
528+85.0	553+81.6	RT	2496.6	25.00	62415			6658	1370																					
528+85.0	553+81.6	RT	2496.6		22470			2774	1140																					
553+81.6	564+18.1	RT	1036.5	48.52			50295	5474	1077																					
553+81.6	564+18.1	RT	1036.5	7.00	7256			922	373																					
00+00.0	06+61.5	RT	661.5	31.62			20914	2251	455																					
00+00.0	06+61.5	RT	661.5	7.00	4631			588	238																					
06+61.5	27+86.5	RT	2125.0	25.00	53125			5667	1166																					
06+61.5	27+86.5	RT	2125.0	9.00	19125			2362	970																					
27+86.5	28+05.7	RT	19.2			1146			50	128																				
30+18.0	30+37.2	RT	19.2			1145			49	128																				
30+37.2	33+27.4	RT	290.2	25.00	7255			774	160																					
30+37.2	33+27.4	RT	290.2	9.00	2612			323	133																					
33+27.4	33+42.7	RT	15.3			912			39	102																				
34+82.5	34+97.7	RT	15.3			911			39	102																				
34+97.7	70+97.7	RT	3600.0	25.00	89999			9600	1975																					
34+97.7	70+97.7	RT	3600.0	9.00	32400			4000	1643																					
70+97.7	82+53.7	RT	1156.0	39.82			46034	4987	992																					
70+97.7	82+53.7	RT	1156.0	9.00	10405			1285	528																					
82+53.7	83+60.0	RT	106.3	13.00				284	32																					
82+53.7	83+60.0	RT	106.3	9.00	957			119	49																					
83+60.0	90+93.7	RT	733.7	18.24	13384			1957	300																					
83+60.0	90+93.7	RT	733.7	9.00	6604			816	335																					
TWO LANES AND INSIDE/OUTSIDE SHOULDER																														
90+93.7	92+00.0	RT	106.3	26.00	2764			284																						
90+93.7	92+00.0	RT	106.3	18.00	1913			213																						
92+00.0	97+30.3	RT	530.3	26.00	13788			1415																						
92+00.0	97+30.3	RT	530.3	18.00	9546			1061																						
97+30.3	113+98.6	RT	1668.3	42.80	71405			7564																						
97+30.3	113+98.6	RT	1668.3	16.00	26693			2966																						
113+98.6	116+59.5	RT	261.0	26.00	6786			696																						
113+98.6	116+59.5	RT	261.0	18.00	4698			290																						
120+19.4	158+17.8	RT	3798.4	26.00	98759			10130																						
120+19.4	158+17.8	RT	3798.4	18.00	68372			7597																						
158+17.8	158+35.3	RT	17.5			695				78																				
160+48.4	160+65.9	RT	17.5			695				78																				
160+65.9	237+19.0	RT	7653.1	26.00	198982			20409																						
160+65.9	237+19.0	RT	7653.1	18.00	137757			15307																						
TOTALS CARRIED TO SHEET 219								118773	13113	616	12210	0	1698	8951	12722	12244	276	6903	3304	13660	206	1930	4168	1653	3573	26231	7516	15538	7.70	

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ADDENDUM NO. 1	DLF	1/14/15
ADDENDUM NO. 2	MZP	1/23/15
REVISIONS		
NO.	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PAVEMENT SUBSUMMARY		
CT Consultants <small>engineers architects planners</small>		
DESIGNED: WDB	CHECKED: JMP	DATE: NOV., 2014
DRAWN: DLF	IN CHARGE: WDB	SCALE: NONE
PROJECT 39-15-02A SHEET 218 OF 419		

STATION TO STATION	SIDE	LENGTH	PAVEMENT WIDTH	SHOULDER WIDTH	SURFACE AREA	APPROACH SLAB AREA	AREA BY COMPUTER	202	203	204	SPECIAL	254	254	SP302				SP304			SP402		SP404		SP404A	SP407		SPECIAL			
								PAVEMENT REMOVED, AS PER PLAN	EXCAVATION (T=6-3/4' +/- MAINLINE PAV. T=15-3/4' +/- SHOULDERS T=14' +/- APPROACH SLABS)	SUBGRADE COMPACTION	SAW CUT JOINT (9" +/-)	PAVEMENT PLANING, ASPHALT CONCRETE (3-1/4")	PAVEMENT PLANING, ASPHALT CONCRETE (9")	8" ASPHALT CONCRETE BASE, PG 64-22 (SHOULDER)	10-1/2" ASPHALT CONCRETE BASE, PG 64-22	11-1/2" ASPHALT CONCRETE BASE, PG 64-22	5-3/4" ASPHALT CONCRETE BASE, PG64-22	8-1/2" AGGREGATE BASE (SHOULDER)	9-1/2" AGGREGATE BASE (SHOULDER)	6" AGGREGATE BASE	12" AGGREGATE BASE	1-3/4" ASPHALT CONCRETE BASE COURSE OR RECYCLED ASPHALT CONCRETE BASE COURSE, PG64-22	1-3/4" ASPHALT CONCRETE BASE COURSE OR RECYCLED ASPHALT CONCRETE BASE COURSE, PG70-22 (FR)	1-1/2" ASPHALT CONCRETE SURFACE COURSE USING CRUSHED STONE, PG64-22	1-1/2" ASPHALT CONCRETE SURFACE COURSE USING CRUSHED SLAG, PG70-22 (FR)	JOINT SEALER	TACK COAT FOR INTERMEDIATE COURSE, AS PER PLAN (0.06 GAL./S.Y.)	TACK COAT, AS PER PLAN (0.075 GAL./S.Y.)	SONIC NAP ALERT PATTERN (SNAP)		
FT	FT	FT	SF	SF	SF	SY	SY	SY	FT	SY	SY	CY	CY	CY	CY	CY	CY	CY	CY	FT	GAL.	GAL.	MILE								
THIRD LANE AND INSIDE SHOULDER RESURFACING																															
26+64.0	27+42.2	LT	78.2	10.75			797					89																			
26+64.0	27+42.2	LT	78.2	13.25			1105					123																			
29+93.1	33+16.7	LT	323.6	10.75			3513					391																			
29+93.1	33+16.7	LT	323.6	13.25			4234					471																			
34+87.2	35+60.0	LT	72.8	10.75			792					88																			
34+87.2	35+60.0	LT	72.8	13.25			945					105																			
83+60.0	90+93.7	LT	733.7	5.50			4051					451																			
83+60.0	90+93.7	LT	733.7	18.50			13559					1507																			
26+86.0	27+67.4	RT	81.4	10.75			922					103																			
26+86.0	27+67.4	RT	81.4	13.25			1012					113																			
30+18.2	33+22.9	RT	304.7	10.75			3241					361																			
30+18.2	33+22.9	RT	304.7	13.25			4090					455																			
34+93.3	35+65.0	RT	71.7	10.75			763					85																			
34+93.3	35+65.0	RT	71.7	13.25			970					108																			
83+60.0	90+93.7	RT	733.7	5.50			4051					451																			
83+60.0	90+93.7	RT	733.7	18.50			13559					1507																			
OUTSIDE SHOULDER ADDITIONS AND REDUCTIONS																															
543+31.5	543+91.5	LT	60.0		-0.33	-20						-1																			
18+83.0	27+05.6	LT	822.6		0.83	683						17																			
29+56.2	33+07.5	LT	351.3		0.83	292						8																			
34+82.9	35+11.0	LT	28.1		0.83	23						1																			
104+21.0	105+21.0	LT	100.0		-0.33	-33						-2																			
120+87.1	121+05.0	LT	17.9		0.83	15						1																			
120+46.8	120+65.0	LT	18.2		-0.17	-3						1																			
120+65.0	120+83.0	LT	18.0		0.83	15						1																			
132+50.0	144+00.0	LT	1150.0		2.00		2100					52																			
138+05.5	139+28.0	LT	122.5		9.10		1117					28																			
161+27.2	161+41.0	LT	13.8		0.83	11						1																			
161+04.0	161+41.0	LT	37.0		0.83	31						1																			
187+01.5	187+59.5	LT	58.0		-0.33	-19						-1																			
543+62.0	544+24.0	RT	62.0		-0.33	-20						-1																			
18+90.0	28+04.0	RT	914.0		0.83	759						19																			
30+54.7	33+28.7	RT	274.0		0.83	227						6																			
35+01.8	47+15.0	RT	1213.2		0.83	1007						25																			
103+33.0	104+33.0	RT	100.0		-0.33	-33						-2																			
120+46.1	120+63.0	RT	16.9		0.83	14						1																			
120+09.6	120+45.0	RT	35.4		0.83	29						1																			
131+00.0	142+50.0	RT	1150.0		2.00	2300	2100					52																			
135+89.5	137+22.0	RT	132.5		7.10		943					24																			
160+75.6	160+91.0	RT	15.4		0.83	13						1																			
160+52.7	160+91.0	RT	38.3		0.83	32						1																			
188+26.0	188+84.0	RT	58.0		-0.33	-19						-1																			
CROSS OVER																															
517+46.0	522+66.0	CL	520.0																												
SUBTOTALS FROM THIS SHEET								0	0	0	0	6408	0	232	0	0	0	197	101	0	0	283	117	243	103	0	455	570	0.69		
SUBTOTALS FROM SHEET 217								122823	13635	616	12209	0	1699	9036	12886	12983	277	6945	3358	14143	208	1946	4309	1670	3693	26232	7716	15999	7.70		
SUBTOTALS FROM SHEET 218								118773	13113	616	12210	0	1698	8951	12722	12244	276	6903	3304	13660	206	1930	4168	1653	3573	26231	7516	15538	7.70		
TOTALS CARRIED TO GENERAL SUMMARY								241596	26748	1232	24419	6408	3397	18219	51388				20808	28217	4159	8594	3566	7369	52463	15687	32107	16.09			

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ADDENDUM NO. 1
ADDENDUM NO. 2

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PAVEMENT SUBSUMMARY


CT Consultants
engineers | architects | planners

DESIGNED: WDB
DRAWN: DLF
CHECKED: JWP
IN CHARGE: WDB
DATE: NOV., 2014
SCALE: NONE

PROJECT 39-15-02A SHEET 219 OF 419

SHEET NUMBER																	ITEM	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
22	316	323	325	326	328	329	330	331	333	335											
																				TRAFFIC CONTROL	
		99		99													620	198	EACH	REMOVAL OF DELINEATOR	
		99		99				5					5				620	208	EACH	DELINEATOR REFLECTOR, POST MOUNTED, AS PER PLAN	357
		508		586													621	1,094	EACH	RAISED PAVEMENT MARKER REMOVED	
		619		468													SP621	1,087	EACH	REPLACEMENT PRISMATIC RETRO-REFLECTOR (WHITE)	
		16															SP621	16	EACH	REPLACEMENT PRISMATIC RETRO-REFLECTOR (YELLOW)	
		598		691													SP621	1,289	EACH	RAISED PAVEMENT MARKER - STIMSONITE MODEL 101 LPCR (WHITE)	22
		27		24													SP621	51	EACH	RAISED PAVEMENT MARKER - STIMSONITE MODEL 101 LPCR (YELLOW)	22
										8					7		625	15	EACH	GROUND ROD	
	255																SP626	255	EACH	BARRIER REFLECTOR, TYPE B	22
										139					76		630	215	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10x22	
										5					5		630	10	EACH	SIGN, SINGLE FACED, MILE MARKER, AS PER PLAN	357
										47					47		630	94	EACH	SIGN, SINGLE FACED, TENTH OF MILE MARKER, AS PER PLAN	357
								24		11			19		21		630	75	EACH	SIGNING, MISC.: SIGN ERECTED, FLAT SHEET	22
										3	8				2	26	630	39	EACH	SIGNING, MISC.: SIGN ERECTED, EXTRUSHEET	25
											24					51	630	75	EACH	SIGN ATTACHMENT ASSEMBLY	
										1	4				2	7	630	14	EACH	SIGN BACKING ASSEMBLY	
										4							630	4	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	
											4					7	630	11	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	
															2		630	2	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-7.65, DESIGN 6	
															2		630	2	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 6	
															1		630	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 8	
																	630	4	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-15.115	
																	630	4	EACH	SIGN SUPPORT FOUNDATION	329
								15	5	4			14	5	1		630	44	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
								15	5	6			14	5	1		630	46	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
										2					2		630	4	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	
										4					4		630	8	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	
															2		630	2	EACH	REMOVAL OF BRIDGE MOUNTED SIGN AND DISPOSAL	
										20							630	20	EACH	REMOVAL OF BARRIER MOUNTED SIGN AND DISPOSAL	
										10							630	10	EACH	REMOVAL OF BARRIER MOUNTED POST SUPPORT AND DISPOSAL	
											13					26	630	39	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	
											5					2	630	7	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-7.65	
																3	630	3	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-12.30	

DESIGNED BY: JDC CHECKED BY:
DATE: 10/16/2014 DATE:
DRAWN BY: JDC REVISIONS BY:
DATE: 10/16/2014 DATE:
CAD FILE NAME: 14138TCQNTA.DWG

ADDENDUM NO. 2		MZP	1/23/15
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION			
TRAFFIC CONTROL GENERAL SUMMARY			
 CT Consultants engineers architects planners			
DESIGNED: JDC	CHECKED: WDB	DATE: OCT. 2014	
DRAWN: JDC	IN CHARGE: WDB	SCALE: NONE	
PROJECT 39-15-02A SHEET 307 OF 419			

DESIGNED BY: JDC CHECKED BY: JDC
 DATE: 10/16/2014 DATE: 10/16/2014
 DRAWN BY: JDC REVISIONS BY: JDC
 DATE: 10/16/2014 DATE: 10/16/2014
 CAD FILE NAME: 14138TCQNTB.DWG

SHEET NO.	EXISTING SIGN	LOCATION	STATION	SIDE	CODE	SIZE	625	630	630	630	630	630	630	630	630	630	630	630	631
							GROUND ROD	SIGNING, MISC.: SIGN ERECTED, EXTRUSHEET	SIGN ATTACHMENT ASSEMBLY	SIGN BACKING ASSEMBLY	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	OVERHEAD SIGN SUPPORT, TYPE TC-7.65, DESIGN 6	OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 6	OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 8	OVERHEAD SIGN SUPPORT, TYPE TC-15.115	SIGN SUPPORT FOUNDATION	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-7.65	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-12.30	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL
							EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
PHASE 2																			
341	X	I-80 EB	534+00	RT	GUIDE SIGN	18'x10'													
	X	I-80 EB	534+00	RT	GUIDE SIGN	12'x10'													
	X	I-80 EB	534+00	RT	E1-H5P	8'x2'													
343	X	I-80 EB	17+67	RT	GUIDE SIGN	25'x8'													
344	X	I-80 EB	26+88	RT	GUIDE SIGN	18'x10'													
	X	I-80 EB	26+88	RT	GUIDE SIGN	20'x10'													
	X	I-80 EB	26+88	RT	E1-H5P	8'x2'													
345	X	I-80 EB	55+13	RT	GUIDE SIGN	18'x10'													
	X	I-80 EB	55+13	RT	GUIDE SIGN	20'x11'													
	X	I-80 EB	55+13	RT	E1-H5P	8'x2'													
346	X	I-80 EB	79+52	RT	GUIDE SIGN	18'x10'													
	X	I-80 EB	79+52	RT	GUIDE SIGN	14'x8'													
	X	I-80 EB	79+52	RT	E1-H5P	8'x2'													
PHASE 2																			
341		I-80 EB	529+58	RT	GUIDE SIGN	37'x18.5'	2	1	6		1			1	1				
		I-80 EB	529+58	RT	E1-H5P	9'x2.5'		1		1									
343		I-80 EB	18+20	RT	GUIDE SIGN	37'x18.5'	2	1	6		1			1	1				
		I-80 EB	18+20	RT	E1-H5P	9'x2.5'		1		1									
344		I-80 EB	44+60	RT	GUIDE SIGN	37'x18.5'	2	1	6		1			1	1				
		I-80 EB	44+60	RT	E1-H5P	9'x2.5'		1		1									
345		I-80 EB	71+25	RT	GUIDE SIGN	37'x18.5'	2	1	6		1			1	1				
		I-80 EB	71+25	RT	E1-H5P	9'x2.5'		1		1									
TOTALS CARRIED TO TRAFFIC CONTROL GENERAL SUMMARY SHEET 307-308							8	8	24	4	4			4	4	5		13	1

REFER TO OTIC STANDARD DRAWING CBR-4 REGARDING ITEM 630 - SIGN SUPPORT FOUNDATION FOR PAY LIMITS

ADDENDUM NO. 2 MZP 1/23/15

NO.	REVISIONS	BY	DATE

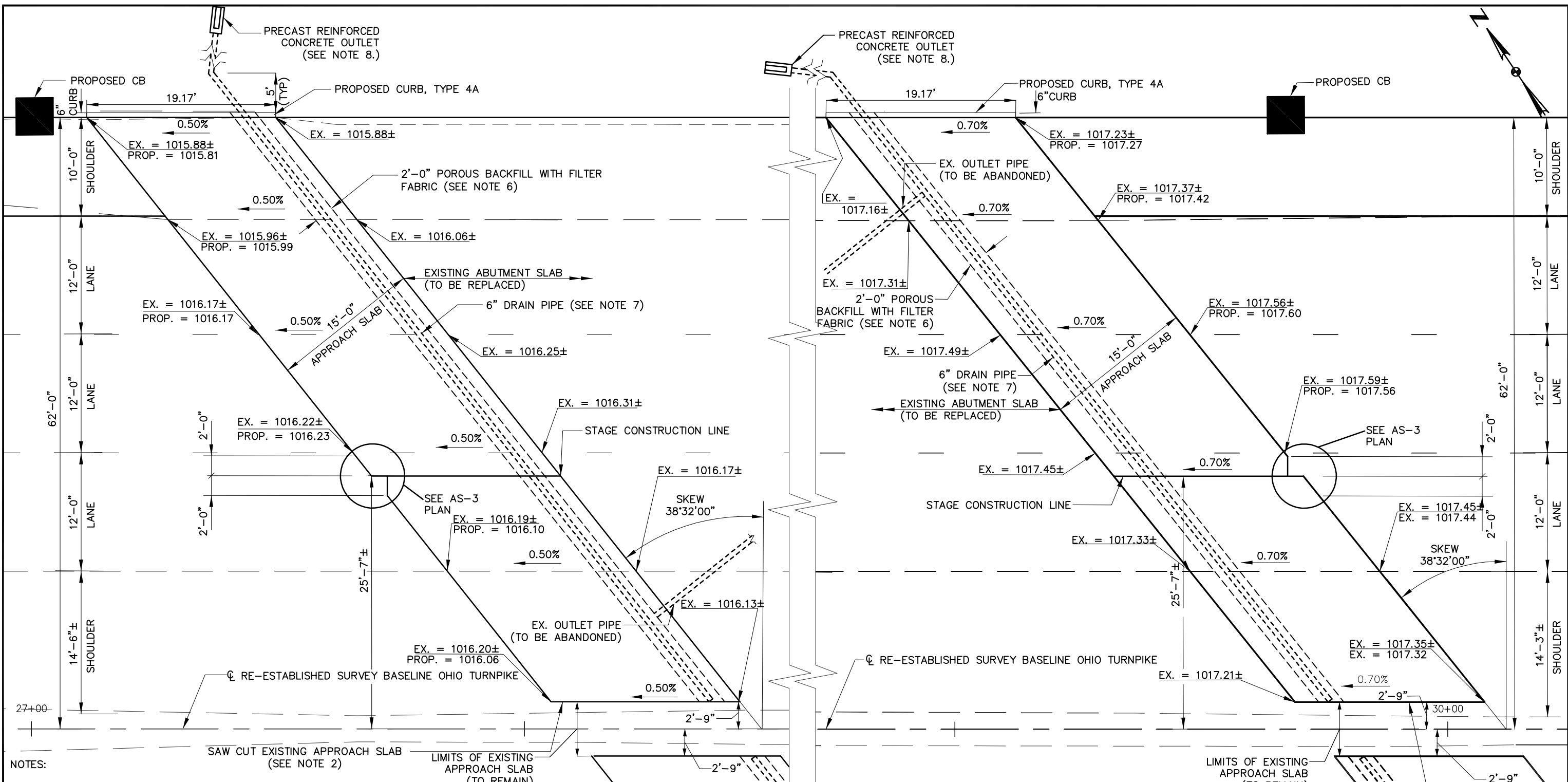
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

TRAFFIC CONTROL
SUB-SUMMARY

CT Consultants
engineers | architects | planners

DESIGNED: JDC CHECKED: WDB DATE: OCT. 2014
 DRAWN: JDC IN CHARGE: WDB SCALE: NONE

PROJECT 39-15-02A SHEET 329 OF 419



APPROACH SLABS FOR BRIDGE OVER S.R. 45, WESTBOUND

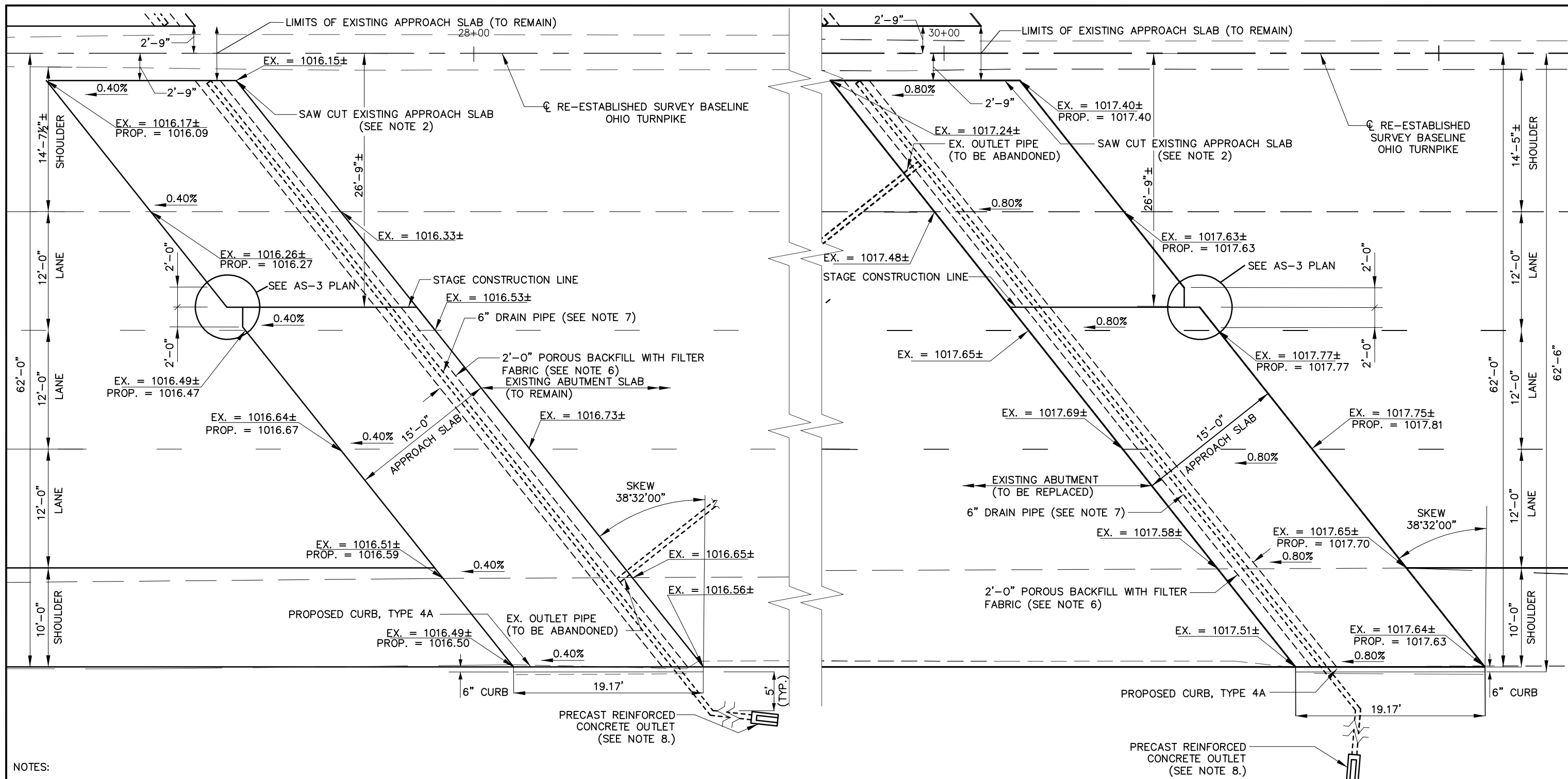
- NOTES:
1. FOR APPROACH SLAB REINFORCING, NOTES AND ADDITIONAL DETAILS, SEE OTIC STANDARD DRAWING AS-3.
 2. FOR DOWEL CONNECTION AT LONGITUDINAL JOINT BETWEEN EXISTING AND PROPOSED APPROACH SLABS, SEE SECTION D-D ON OTIC STANDARD DRAWING AS-2. TREATMENT OF JOINT PER SP-516B SHALL BE INCIDENTAL TO THIS WORK.
 3. FOR TYPE 4-C INTEGRAL CURB DETAILS, SEE ODOT STANDARD DRAWING BP-5.1.
 4. REMOVAL OF THE EXISTING APPROACH SLAB IS INCLUDED UNDER ITEM 202 - APPROACH SLAB REMOVED. NEW APPROACH SLAB IS INCLUDED UNDER ITEM SP 526 - CLASS C CONCRETE, APPROACH SLAB, USING TYPE 1 CEMENT (T=12"). SEE REMOVAL SUBSUMMARY FOR QUANTITIES.
 5. FOR APPROACH SLAB TYPICAL SECTIONS SEE SHEET 13.
 6. POROUS BACKFILL WITH FILTER FABRIC SHALL BE INSTALLED IN ACCORDANCE WITH OTIC STANDARD DRAWING AS-5.
 7. 6" DRAIN PIPE SHALL BE INSTALLED IN ACCORDANCE WITH OTIC STANDARD DRAWING AS-5 AND OUTLETTED AS SHOWN ABOVE.

8. FOR PRECAST REINFORCED CONCRETE OUTLET DETAILS, SEE ODOT STANDARD CONSTRUCTION DRAWING DM-1.1.

9. QUANTITIES FOR POROUS BACKFILL, 6" DRAIN PIPE, AND PRECAST CONCRETE OUTLETS ARE CARRIED TO THE STRUCTURE ESTIMATED QUANTITY TABLE.

DESIGNED BY: WDB	CHECKED BY:
DATE: 12/15/14	DATE:
DRAWN BY: MZP	REVISION BY:
DATE: 12/15/14	DATE:
CAD FILE NAME: 1413B-APPROACH.DWG	

ADDENDUM NO. 2		MZP 1/23/15	
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION			
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION APPROACH SLAB DETAIL			
CT Consultants engineers architects planners			
DESIGNED: WDB	CHECKED: JMP	DATE: DEC. 2014	
DRAWN: MZP	IN CHARGE: WDB	SCALE: 1"=50'	
PROJECT 39-15-02A SHEET 362 OF 419			



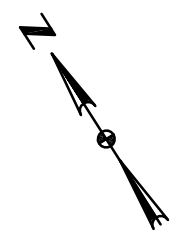
APPROACH SLABS FOR BRIDGE OVER S.R. 45, EASTBOUND

- NOTES:
- FOR APPROACH SLAB REINFORCING, NOTES AND ADDITIONAL DETAILS, SEE OTIC STANDARD DRAWING AS-3.
 - FOR DOWEL CONNECTION AT LONGITUDINAL JOINT BETWEEN EXISTING AND PROPOSED APPROACH SLABS, SEE SECTION D-D ON OTIC STANDARD DRAWING AS-2. TREATMENT OF JOINT PER SP-516B SHALL BE INCIDENTAL TO THIS WORK.
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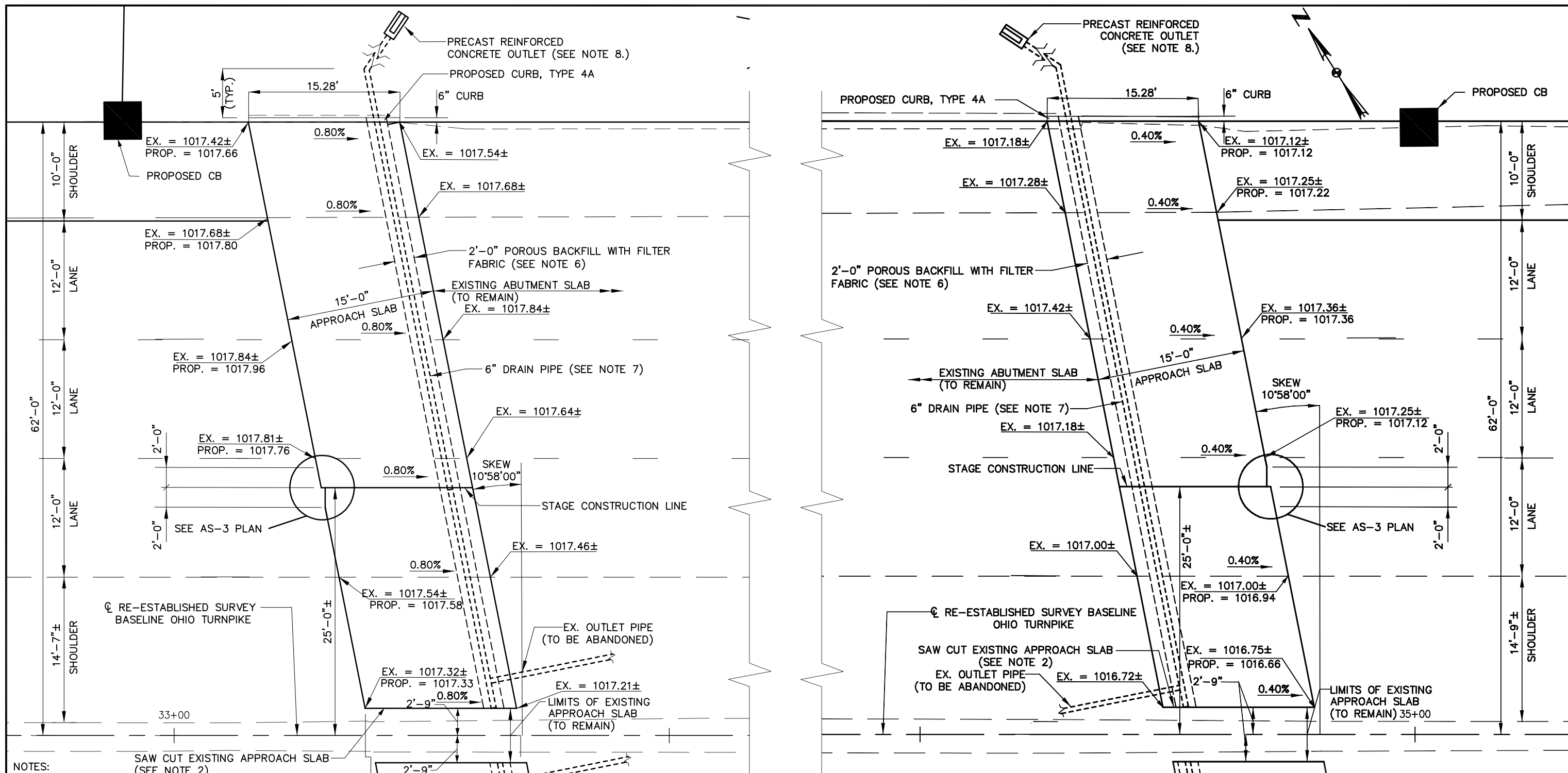
8. FOR PRECAST REINFORCED CONCRETE OUTLET DETAILS, SEE ODOT STANDARD CONSTRUCTION DRAWING DM-1.1.

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DESIGNED BY: WDB	CHECKED BY:
DATE: 12/15/14	DATE:
DRAWN BY: MZP	REVISIONS:
DATE: 12/15/14	BY:
CAD FILE NAME: 1413B-APPROACH.DWG	DATE:



ADDENDUM NO. 2		MZP 1/23/15	
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION			
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION APPROACH SLAB DETAIL			
CT Consultants engineers architects planners			
DESIGNED: WDB	CHECKED: JMP	DATE: DEC. 2014	
DRAWN: MZP	IN CHARGE: WDB	SCALE: 1"=50'	
PROJECT 39-15-02A SHEET 363 OF 419			



- NOTES:
1. FOR APPROACH SLAB REINFORCING, NOTES AND ADDITIONAL DETAILS, SEE OTIC STANDARD DRAWING AS-3.
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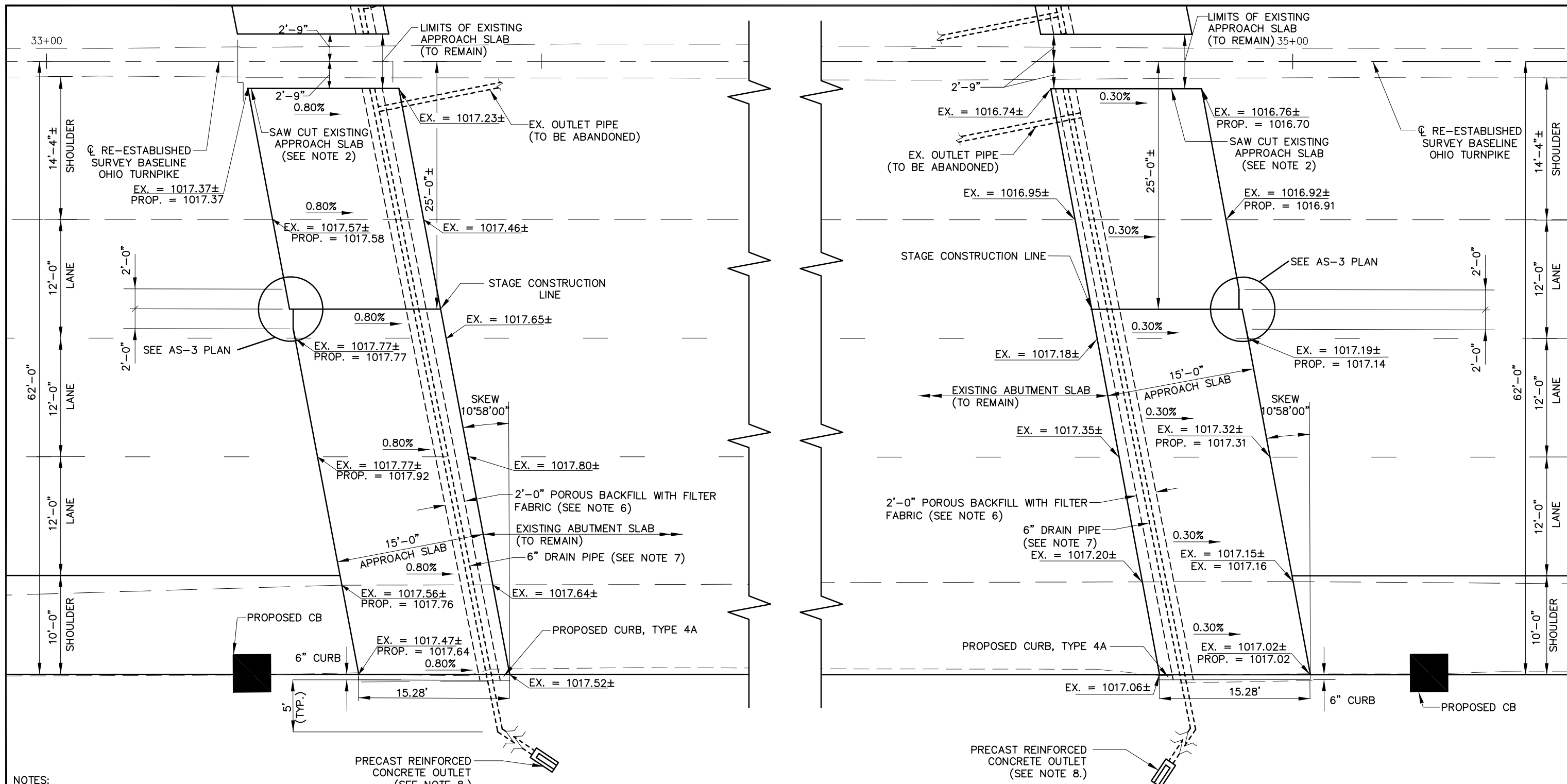
**APPROACH SLABS FOR BRIDGE OVER NORFOLK & SOUTHERN R.R.,
WESTBOUND**

8. FOR PRECAST REINFORCED CONCRETE OUTLET DETAILS, SEE ODOT STANDARD CONSTRUCTION DRAWING DM-1.1.

9. QUANTITIES FOR POROUS BACKFILL, 6" DRAIN PIPE, AND PRECAST CONCRETE OUTLETS ARE CARRIED TO THE STRUCTURE ESTIMATED QUANTITY TABLE.

DESIGNED BY: WDB	CHECKED BY:
DATE: 12/15/14	DATE:
DRAWN BY: MZP	REVISED BY:
DATE: 12/15/14	DATE:
CAD FILE NAME: 14138-APPROACH.DWG	

ADDENDUM NO. 2		MZP 1/23/15	
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION			
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION APPROACH SLAB DETAIL			
CT Consultants <small>engineers architects planners</small>			
DESIGNED: WDB	CHECKED: JMP	DATE: DEC. 2014	
DRAWN: MZP	IN CHARGE: WDB	SCALE: 1"=50'	
PROJECT 39-15-02A SHEET 364 OF 419			



**APPROACH SLABS FOR BRIDGE OVER NORFOLK & SOUTHERN R.R.,
EASTBOUND**

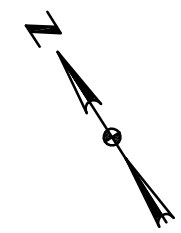
- NOTES:
- FOR APPROACH SLAB REINFORCING, NOTES AND ADDITIONAL DETAILS, SEE OTIC STANDARD DRAWING AS-3.
 - FOR DOWEL CONNECTION AT LONGITUDINAL JOINT BETWEEN EXISTING AND PROPOSED APPROACH SLABS, SEE SECTION D-D ON OTIC STANDARD DRAWING AS-2. TREATMENT OF JOINT PER SP-516B SHALL BE INCIDENTAL TO THIS WORK.
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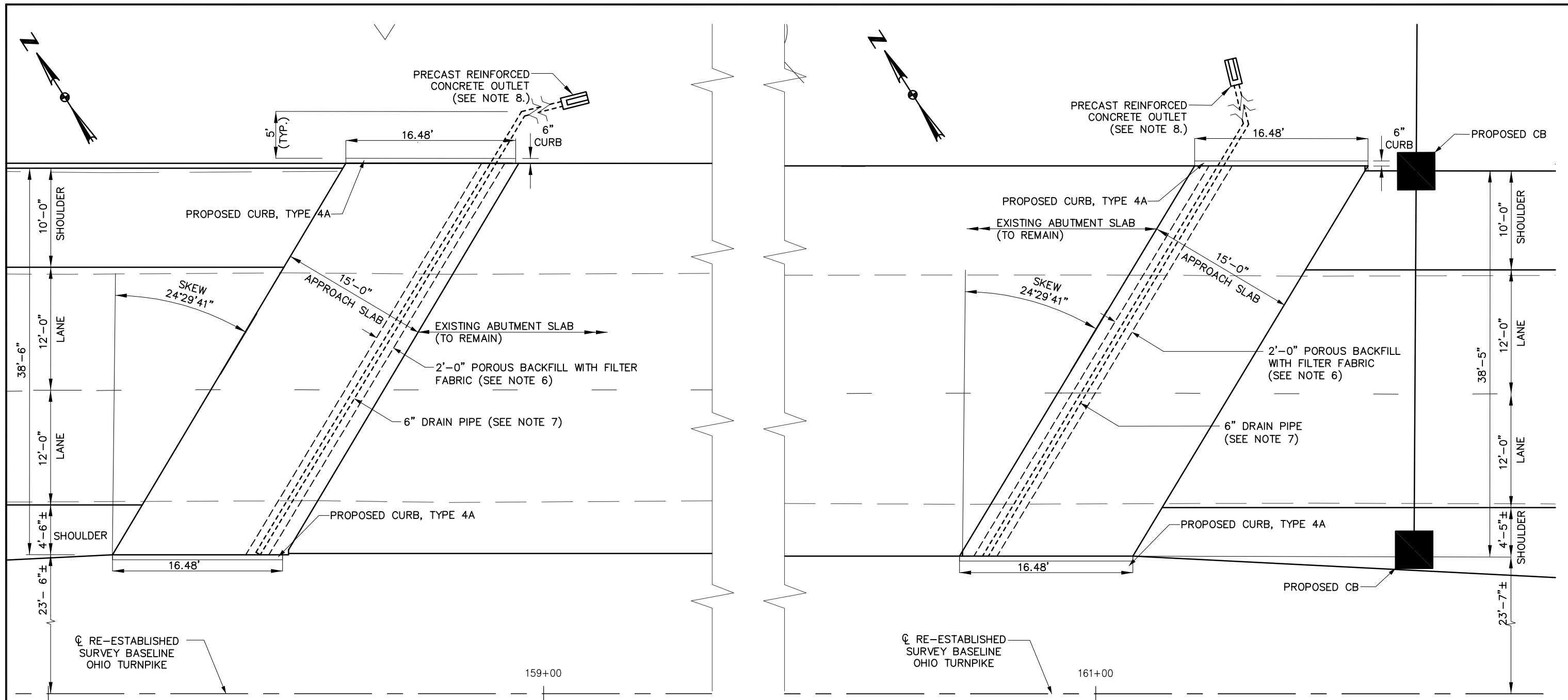
8. FOR PRECAST REINFORCED CONCRETE OUTLET DETAILS, SEE ODOT STANDARD CONSTRUCTION DRAWING DM-1.1.

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DESIGNED BY: WDB	CHECKED BY:
DATE: 12/15/14	DATE:
DRAWN BY: MZP	REVISIONS:
DATE: 12/15/14	DATE:
CAD FILE NAME: 1413B-APPROACH.DWG	

ADDENDUM NO. 2		MZP	1/23/15
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION			
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION APPROACH SLAB DETAIL			
CT Consultants <small>engineers architects planners</small>			
DESIGNED: WDB	CHECKED: JMP	DATE: DEC. 2014	
DRAWN: MZP	IN CHARGE: WDB	SCALE: 1"=50'	
PROJECT 39-15-02A SHEET 365 OF 419			





APPROACH SLABS FOR BRIDGE OVER S.R. 18, WESTBOUND


NOTES:

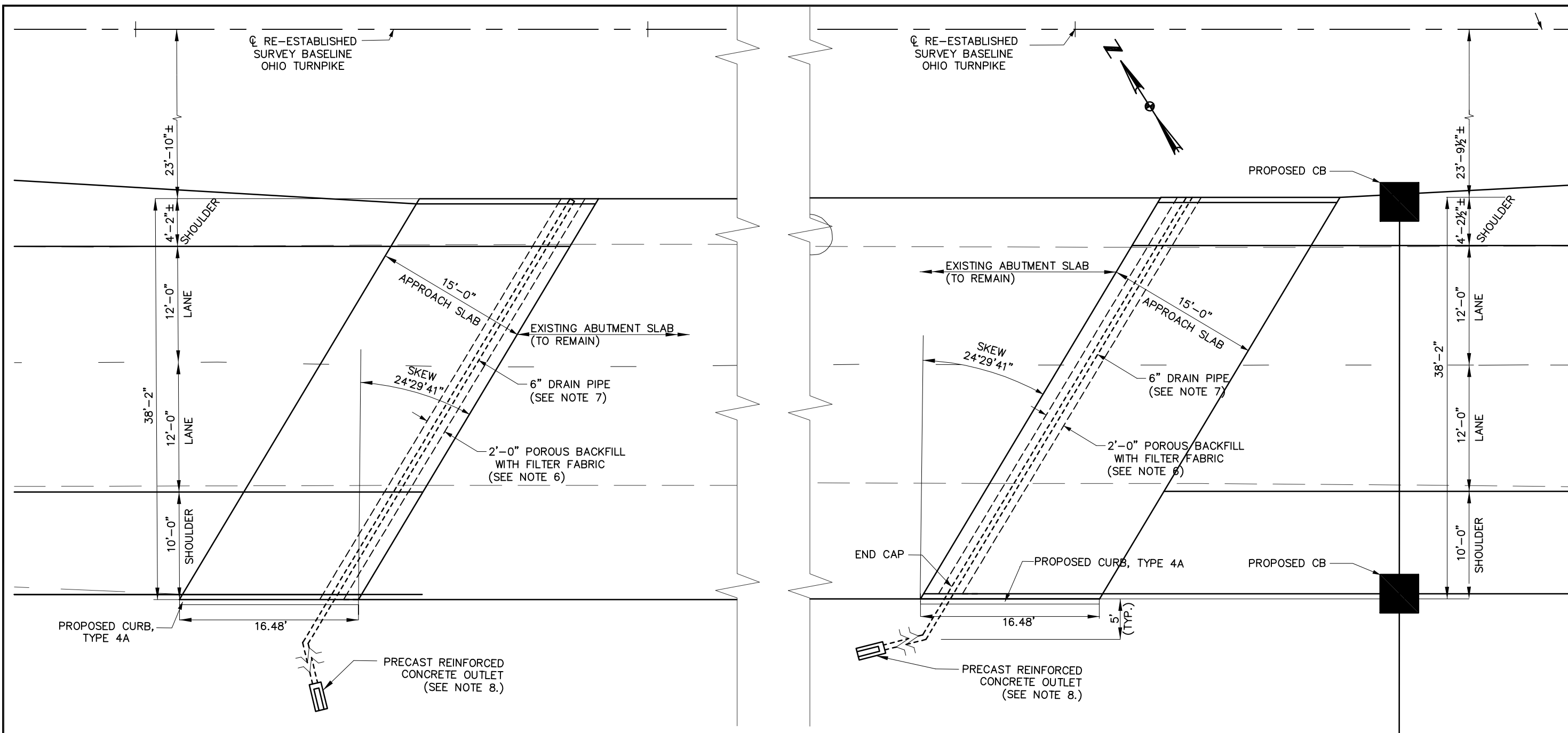
1. FOR APPROACH SLAB REINFORCING, NOTES AND ADDITIONAL DETAILS, SEE OTIC STANDARD DRAWING AS-3.
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DESIGNED BY: WDB	CHECKED BY:
DATE: 12/15/14	DATE:
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ADDENDUM NO. 2		MZP 1/23/15	
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION			
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION APPROACH SLAB DETAIL			
 CT Consultants <small>engineers architects planners</small>			
DESIGNED: WDB	CHECKED: JMP	DATE: DEC. 2014	
DRAWN: MZP	IN CHARGE: WDB	SCALE: 1"=50'	
PROJECT 39-15-02A SHEET 366 OF 419			



APPROACH SLABS FOR BRIDGE OVER S.R. 18, EASTBOUND

NOTES:

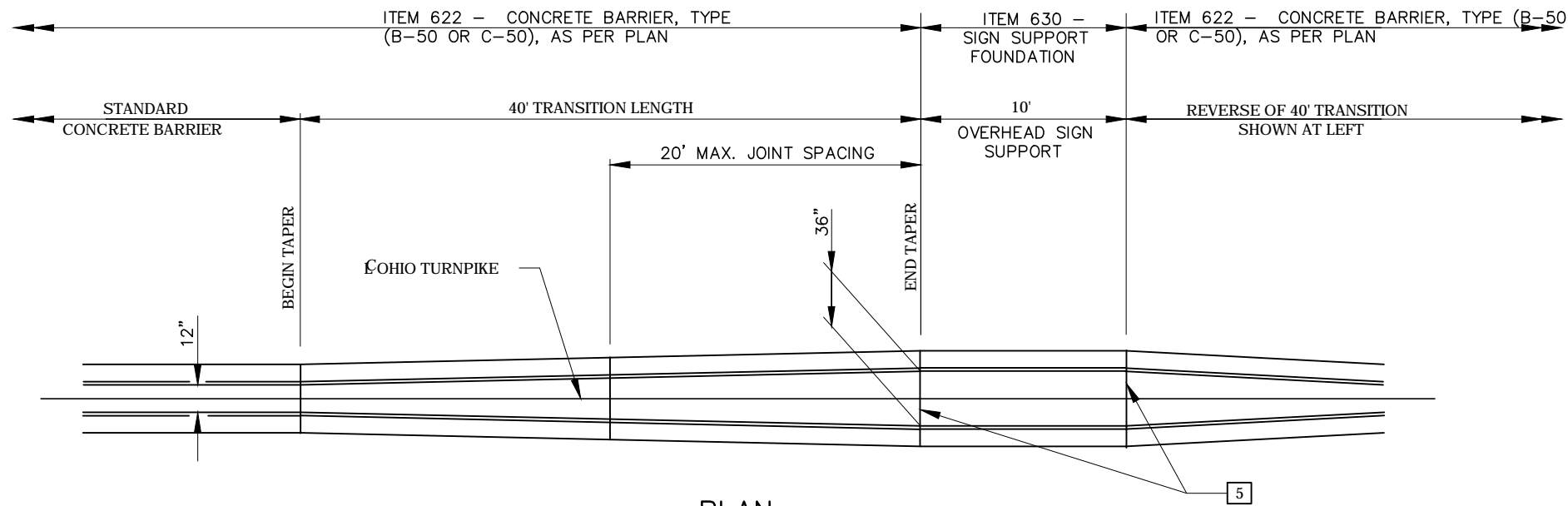
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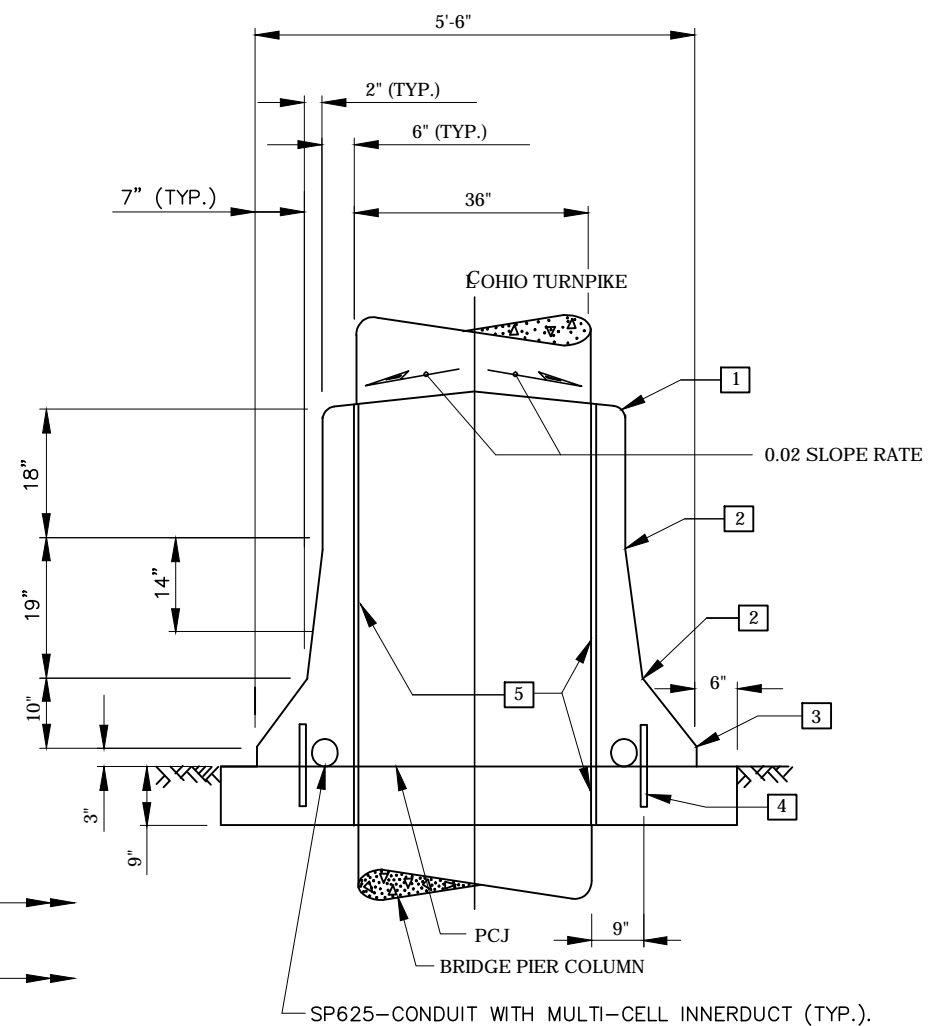
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DESIGNED BY: WDB	CHECKED BY:
DATE: 12/15/14	DATE:
DRAWN BY: MZP	REVISIONS:
DATE: 12/15/14	DATE:
CAD FILE NAME: 1413B-APPROACH.DWG	

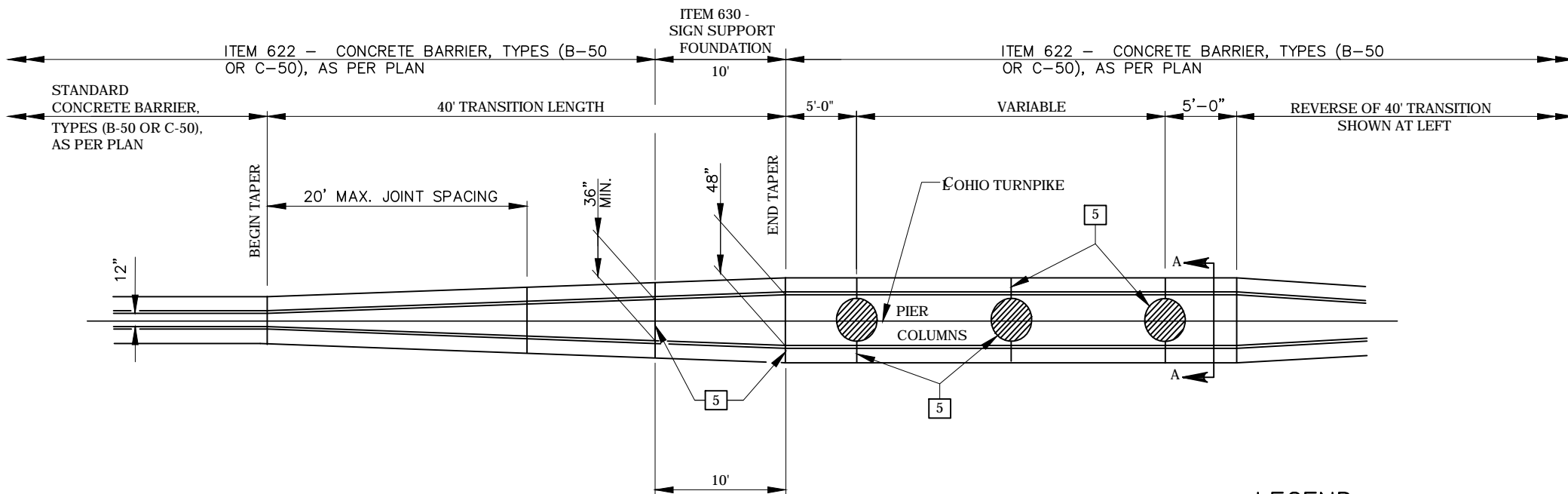
ADDENDUM NO. 2		MZP	1/23/15
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION			
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION APPROACH SLAB DETAIL			
CT Consultants <i>engineers architects planners</i>			
DESIGNED: WDB	CHECKED: JMP	DATE: DEC. 2014	
DRAWN: MZP	IN CHARGE: WDB	SCALE: 1"=50'	
PROJECT 39-15-02A SHEET 367 OF 419			



PLAN:
SIGN SUPPORT TRANSITION
 (FOR 50" BARRIERS, THE UPPER 18" VARIES FROM 12" TO 36" IN WIDTH.)



SECTION A-A



PLAN:
BRIDGE PIER TRANSITION WITH SIGN SUPPORT

NOTES:

- STANDARD BARRIERS: CONCRETE BARRIER, TYPE (B-50 OR C-50), AS PER PLAN SHALL BE CONSTRUCTED AS SHOWN ON THE O.T.C. STANDARD DRAWING CBR-3 OR AS DETAILED IN THE PLANS.

LEGEND:

- 1 1" RADIUS OR 3/4" CHAMFER.
- 2 PERMISSIBLE 10" RADIUS.
- 3 PERMISSIBLE 1" RADIUS.
- 4 #8 EPOXY COATED DEFORMED STEEL BARS, 12" LONG, SPACED 2' BETWEEN SUCCESSIVE BARS ON A STAGGERED PATTERN. DOWEL BARS SHALL BEGIN 4' FROM THE LEADING EDGE OF THE END TERMINAL. OMIT DOWELS WHEN THE TOP IS CONSTRUCTED INTEGRALLY WITH THE BASE.
- 5 EXPANSION JOINT, 3/4" MIN. PREFORMED FILLER PER 705.03.

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION	
NEW JERSEY SHAPE BARRIER TRANSITIONS	
DATE: JUNE 25, 2007	SCALE: N.T.S.
O.T.I.C. STANDARD DRAWING CBR-4	