

OHIO TURNPIKE AND
INFRASTRUCTURE COMMISSION

ADDENDUM NO. 1

CONTRACT NO. 39-14-01

RIGHT TWO (2) LANES AND SHOULDER RECONSTRUCTION
MILEPOST 101.2 TO MILEPOST 107.2,
SANDUSKY AND ERIE COUNTIES, OHIO

OPENING DATE: *EXTENDED TO 2:00 P.M. (E.S.T.), FEBRUARY 19 21, 2014*

ATTENTION OF BIDDERS IS DIRECTED TO:

ANSWERS TO QUESTIONS RECEIVED THROUGH 10:00 A.M., FEBRUARY 13, 2014

MODIFICATIONS TO THE CONTRACT DOCUMENTS
COVER SHEET AND NOTICE TO BIDDERS PAGE NB-2

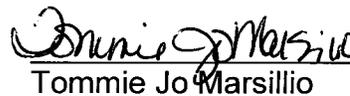
MODIFICATIONS TO THE BID FORM
Pages revised: OTIC-BF-2, OTIC-BF-4 and OTIC-BF-5

MODIFICATIONS TO THE SPECIFICATIONS
Pages revised: SP-7 and SP-65

MODIFICATIONS TO THE DRAWINGS
Contract Drawings: Sheets 4, 5, 6, 11, 17, 112, 113, 114, 117, 118, 119, 120, 121, 123, 134
through 161 and 225 of 280 (43 total sheets)

Issued by the Ohio Turnpike and Infrastructure Commission on February 13, 2014. Issuance authorized by Robin Carlin, Deputy Executive Director, and Tommie Jo Marsillio, Director of Contracts Administration.

 2/13/14
Robin Carlin Date

 2/13/14
Tommie Jo Marsillio Date

**OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION
ADDENDUM NO. 1
CONTRACT NO. 39-14-01**

ANSWERS TO QUESTIONS RECEIVED THROUGH 10:00 A.M., FEBRUARY 13, 2014

Q#1 Could you please provide the sizes, depths and types of existing pipes intended for cleanout on Sheet 12 (2,000 ft) in Bid Item 71: Pipe Cleanout?

A#1 The contingency quantity of 2000 feet of Item Special - Pipe Cleanout is intended to be used to cleanout the existing outlet pipes from the existing median inlets. The size of these pipes range from fifteen (15) inches to twenty-four (24) inches and the existing pipe material is concrete. The length of each of these median outlet pipes to the existing ditch is approximately 100 feet and the depth is less than ten (10) feet.

Q#2 Sheet 123 of 280 shows an excavation quantity of 1083 cy associated with slope protection work. There is also 500 cy set up on sheet 11 of 280 for this same purpose. The nature of the work required to perform these items is drastically different from the roadway excavation item. Could you please create a new excavation bid item to account for this work separately?

A#2 Yes, a new Pay Item was created via this Addendum No. 1. Refer to the modified Bid Form with this Addendum No. 1, reducing the quantity specified for Ref. No. 11 and adding Ref. No. 11A, Item 203, Excavation for Slope Erosion Protection, 1,583 CU YD.

Q#3 The SP605 specification allows for 4" 707.31 for the 6" shallow underdrain. The 2013 ODOT CMS 605.02 now allows this to apply for both 6" shallow and base underdrains. Can the SP605 specification be amended to allow 4" to be used for the 6" base underdrain item?

A#3 No, the size of the proposed underdrain is specified in the Typical Sections and in the Pay Items. Use what is specified in the Construction Drawings.

Q#4 OTIC Permanent Pavement Marking Operations general note on sheet 13 of 280 refers to pavement marking work but does not state where the cost is included. There are pavement marking bid items and quantities calculated in the Traffic Control Sub-Summary Tables, but are the sub-summary calculations accounting for this work in the general note? Where in the bid is the work for this note to be included?

A#4 The "OTIC PERMANENT PAVEMENT MARKING OPERATIONS" note on Sheet 13 of 280 is an informational note to ensure the Contractor is aware of when the various permanent pavement markings are to be placed. The quantities for these markings are contained on the Traffic Control Sub-Summary Sheets 184 thru 195 of 280 under the various Pay Items for their respective phase.

Q#5 Will access underneath the Dirt Access Road Bridge be available to the contractor from the Pickel Street drive? Also, will the Turnpike remove the existing semi-trailers and other equipment that is currently under the Dirt Access Road Bridge?

A#5 Yes, the Commission is currently negotiating the use of the dirt access road for access to perform Bridge Work and the existing semi-trailer and other equipment will be removed. The Commission will advise the Contractor when the property will be available for access.

MODIFICATIONS VIA ADDENDUM NO. 1 TO THE CONTRACT DOCUMENTS FOR CONTRACT NO. 39-14-01

The following changes were made to the Contract Documents for Contract No. 39-14-01:

MODIFICATIONS TO THE COVER SHEET AND NOTICE TO BIDDERS

Deletions are shown with strikethrough text.

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

Cover Sheet and Notice to Bidders Page OTC-NB-2: The Bid Opening date has been extended from 2:00 P.M. (E.S.T) February ~~19~~, 2014 to 2:00 P.M. (E.S.T) February **21**, 2014.

MODIFICATIONS TO THE BID FORM

Deletions are shown with strikethrough text.

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

Page OTC – BF – 2

Revised the Approx. Quantity for Ref. No. 11 and added a new Ref. No. 11A as follows:

REF. NO.	ITEM NO.	DESCRIPTION	APPROX. QUANTITY	UNIT
11	203	EXCAVATION	71,207 54,978	CU YD
11A	203	<i>EXCAVATION FOR SLOPE EROSION PROTECTION</i>	1,583	CU YD

Page OTC – BF – 4

Revised the Approx. Quantities for Ref. Nos. 53, 64 and 65 as follows:

REF. NO.	ITEM NO.	DESCRIPTION	APPROX. QUANTITY	UNIT
53	603	6" CONDUIT, TYPE F, 707.41 NON-PERFORATED ASTM D3034 (SDR 35) 707.42 OR 707.33	3,754 6,689	FT
64	SP605	6" BASE PIPE UNDERDRAIN, WITH FABRIC	63,294	FT

		WRAP	69,131	
65	SP605	6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP	64,448 111,875	FT

Page OTC – BF – 5

Revised the Approx. Quantities for Ref. Nos. 76 and 78 as follows:

REF. NO.	ITEM NO.	DESCRIPTION	APPROX. QUANTITY	UNIT
76	SP302	BITUMINOUS AGGREGATE BASE, PG64-22	83,368 58,606	CU YD
78	SP304	AGGREGATE BASE	34,650 29,768	CU YD

MODIFICATIONS TO THE SPECIAL PROVISIONS

Deletions are shown with ~~strikethrough~~ text.

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

Page SP-7

Section I of Special Provision SP 104 is modified via this Addendum No. 1 as follows:

- I. Proposals for **Temporary Access** (Entrances or Exits) to the Turnpike may be submitted by the Contractor. The Contractor shall enter a lump sum credit in the space provided in the Proposal, setting forth the amount of credit, which will apply in case its proposal for Temporary Access is granted (See Bid form). In addition, ~~he~~ ***the Contractor*** shall furnish the following information in the sealed envelope containing its ***signed original Bid Guaranty/Performance Bond, Power of Attorney, Bidder's Affidavit and completed Financial Statement submitted within twenty-four (24) hours of the Bid Opening in accordance with Articles 2.7.2, 2.7.4 and 6.1.1 of the Instructions to Bidders.***

Page SP-65

Section (III)(E)(3)(i) of Special Provision SP 400 is modified via this Addendum No. 3 as follows:

- (i) **A** Material transfer device (MTD) shall be used for all ~~surface~~ course(s) ***of*** mainline and ramp paving including ***SP404, SP402 and SP302.*** The MTD shall be self-propelled and independent of the asphalt spreading and finishing equipment. The MTD shall be capable of remixing and transferring the asphalt mixture from the MTD to the asphalt spreading and finishing equipment.

MTD may be used for shoulder ~~surfacing~~ paving but is not required.

MODIFICATIONS TO THE PLAN DRAWINGS

Modifications to the Plan Drawings

Deletions in Plan Notes are shown with ~~striketrough~~ 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 4 of 280

Reference Item 3 in the "Item Legend," is modified via this Addendum No. 1 to state, "Item SP 302 - Bituminous Aggregate Base, PG 64-22 (***4412***)".

Reference Item 7 in the "Item Legend," is modified via this Addendum No. 1 to state, "Item SP 304 - Aggregate Base (~~76~~)".

The first sentence of Note 1 is modified via this Addendum No. 1 to state, "Asphalt Pavement Planning operations within this 15" area shall occur after placement of Item SP 302 – ***4412*** Bituminous Aggregate Base, PG 64-22."

A new "Item SP 605 - 6" Shallow Pipe Underdrain, with fabric wrap" is added in the center lane adjacent to the existing Third Lane pavement via this Addendum No. 1. This twenty-four (24) inch deep Shallow Pipe Underdrain is shown in both the "Pavement Joint Detail" and the "Normal Section" areas of Plan Sheet 4.

Plan Sheet 5 of 280

First sentence, Note 1 is modified via this Addendum No. 1 to state, "Asphalt Pavement Planning operations within this 15" area shall occur after placement of Item SP 302 – ***4412*** Bituminous Aggregate Base, PG 64-22."

A new "Item SP 605 - 6" Shallow Pipe Underdrain, with Fabric Wrap" is added in the center lane adjacent to the existing Third Lane pavement via this Addendum No. 1. A twenty-four (24) inch deep Shallow Pipe Underdrain is added to the Westbound Lanes and a twenty-four (24) inch shallow Pipe Underdrain is deleted from the Eastbound Lanes of the "Superelevated Section (right)" Typical Section. A twenty-four (24) inch deep Shallow Pipe Underdrain is added to the Eastbound Lanes and a Shallow Pipe Underdrain is deleted from the Westbound Lanes of the "Superelevated Section (Left)" Typical Section.

Plan Sheet 6 of 280

A new "Item SP 605 - 6" Shallow Pipe Underdrain, with Fabric Wrap" is added in the center lane adjacent to the existing Third Lane pavement via this Addendum No. 1. A twenty-four (24) inch deep Shallow Pipe Underdrain is added to the Westbound Lanes and a Shallow Pipe Underdrain is deleted from the Eastbound Lanes of the "Resurfacing at Approach Slab,

Superelevated Section (Right) Typical Section. This twenty-four (24) inch deep Shallow Pipe Underdrain is added to both the Eastbound and Westbound Lanes as shown on the "Resurfacing at Approach Slab" Typical Section.

Plan Sheet 11 of 280

General Note "Slope Erosion Protection" Pay Item description is modified via this Addendum No. 1 as follows:

"Item 203 – Excavation for Slope Erosion Projection"

Plan Sheet 17 of 280

A new MOT General Note entitled "45. Storage of Temporary Portable Barrier" is added via this Addendum No. 1 to provide as follows:

"STORAGE OF TEMPORARY PORTABLE BARRIER

THE COMMISSION WILL ALLOW STORAGE OF TEMPORARY PORTABLE BARRIER WALL ON TURNPIKE RIGHT OF WAY AT TOLL PLAZAS (TP) 91.6 AND 110.2. SPACE IS AVAILABLE AT EACH TOLL PLAZA. THE CONTRACTOR SHALL VERIFY THE AMOUNT OF SPACE THAT IS AVAILABLE AT EACH TOLL PLAZA. THE AVAILABLE SPACE AT THE TOLL PLAZAS MAY REQUIRE MINIMAL GRADING TO PREPARE THE SURFACE FOR LEVEL AND STABLE STORAGE. EITHER ASPHALT MILLINGS OR CRUSHED AGGREGATE MAY BE USED AT THE CONTRACTOR'S OWN EXPENSE TO GRADE AND STABILIZE THE STORAGE AREA. TEMPORARY PORTABLE BARRIER SHALL NOT BE STORED HIGHER THAN THREE PIECES HIGH. TYPICAL STORAGE ANTICIPATED WOULD BE IN CUBES OF 5 TEMPORARY PORTABLE BARRIER SECTIONS ALTERNATELY STACKED 3 HIGH OR AS RECOMMENDED BY THE MANUFACTURER. RESTORATION OF THE AREA WILL BE REQUIRED TO ORIGINAL OR BETTER CONDITIONS AS APPROVED BY THE CHIEF ENGINEER PRIOR TO FINAL COMPLETION. ALL BROKEN BARRIER AND DEBRIS SHALL BE REMOVED FROM THESE AREAS ONCE COMPLETE AND DISPOSED IN ACCORDANCE WITH SP105. FLAGGERS WILL BE REQUIRED FOR ANY TURNING MOVEMENTS IN FRONT OF THE TOLL PLAZAS PER THE OTIC'S STANDARDS. THE CONTRACTOR SHALL PROVIDE A UTILIZATION PLAN TO THE CHIEF ENGINEER FOR APPROVAL. THIS PLAN SHALL INCLUDE THE FOLLOWING: AN AERIAL DRAWING OF THE TOLL PLAZA WHICH DEFINES THE STORAGE AREA, SIZE OF AREA REQUIRED, DESCRIPTION OF HOW THE BARRIER IS TO BE STORED, DESCRIPTION OF WORK REQUIRED TO PREPARE THE STORAGE AREA WHICH INCLUDES TYPE OF SURFACE TO BE INSTALLED IF REQUIRED, GRADING THAT PROVIDES POSITIVE DRAINAGE AND ANY EROSION CONTROL MEASURES REQUIRED, AND THE LOGISTICS TO STORE AND RETRIEVE THE STORED TEMPORARY PORTABLE BARRIER TO AND FROM THE TOLL PLAZA. ALL COSTS ASSOCIATED WITH THE STORAGE OF TEMPORARY PORTABLE BARRIER SHALL BE CONSIDERED INCIDENTAL TO THE LUMP SUM PRICE BID OF ITEM SP622A - TEMPORARY PORTABLE BARRIER."

Plan Sheet 112 of 280

The quantities for Pay Item, "Item 203 – Excavation", is modified via this Addendum No. 1 as follows:

Sheet Number 11	Sheet Number 121	Sheet Number 123	ITEM	GRAND TOTAL	DESCRIPTION
500	69,624 54,978	1,083	203	71,207 54,978	Excavation

A new Pay Item, "Item 203 – Excavation for Slope Erosion Projection", is added via this Addendum No. 1 as follows:

Sheet Number 11	Sheet Number 123	ITEM	GRAND TOTAL	Unit	DESCRIPTION
500	1,083	203	1,583	CU YD	Excavation for Slope Erosion Protection

Plan Sheet 113 of 280

The quantities for Pay Items, "Item 603 – 6" Conduit, Type F, 707.41 Non-Perforated ASTM D3034 (SDR 35) 707.42 or 707.33", "Item SP605 - 6" Base Pipe Underdrain, with Filter Fabric" and "Item SP605 - 6" Shallow Pipe Underdrain, with Filter Fabric" are modified via this Addendum No. 1 as follows:

Sheet Number 118	ITEM	GRAND TOTAL	DESCRIPTION
3,754 6,689	603	3,754 6,689	6" Conduit, Type F, 707.41 Non-Perforated ASTM D3034 (SDR 35) 707.42 or 707.33
63,294 69,131	SP605	63,294 69,131	6" Base Pipe Underdrain, with Filter Fabric
64,448 111,875	SP605	64,448 111,875	6" Shallow Pipe Underdrain, with Filter Fabric

Plan Sheet 114 of 280

The quantities for Pay Items, "Item SP302 - Bituminous Aggregate Base, PG64-22" and "Item SP304 - Aggregate Base" are modified via this Addendum No. 1 as follows:

Sheet Number 121	ITEM	GRAND TOTAL	DESCRIPTION
68,372 58,606	SP302	68,372 58,606	Bituminous Aggregate Base, PG64-22
34,650 29,768	SP304	34,650 29,768	Aggregate Base

Plan Sheets 117 and 118 of 280 (2 sheets)

The entire sheets entitled "Underdrain Subsummary" are revised via this Addendum No. 1.

Plan Sheets 119, 120 and 121 of 280 (3 sheets)

The Pay Item descriptions were modified via this Addendum No. 1 as follows:

"Excavation (T=96-1/4"± Mainline Pavt. T=12"± Shoulders T=14"± Approach Slabs)", "4412" Bituminous Aggregate Base, PG64-22" and "76 Aggregate Base". The quantities and their totals were modified for the Pay Items "Excavation (T=96-1/4"± Mainline Pavt. T=12"± Shoulders T=14"± Approach Slabs)", "4412" Bituminous Aggregate Base, PG64-22" and "76 Aggregate Base". See Plans for revised Quantity amounts.

Plan Sheet 123 of 280

The Pay Item description "**EXCAVATION FOR SLOPE EROSION PROTECTION**" is modified via this Addendum No. 1.

Plan Sheets 134 through 161 of 280 (28 sheets)

All Plan views are modified to add Shallow Pipe Underdrains in the center lane, adjacent to the existing Third Lane Pavement in accordance the Typical Section Details on Plan Sheets 4, 5 and 6 of 280. All Profile views are modified to add new elevations for the new Shallow Pipe Underdrain in the center lane, adjacent to the existing Third Lane Pavement via this Addendum No. 1.

Plan Sheet 225 of 280

A Culvert Maintenance Structural General Note was added via this Addendum No. 1 to provide as follows:

**"ITEM 837 – LINER PIPE, AS PER PLAN
CONNECTIONS TO EXISTING PIPES WILL BE REQUIRED AS DESCRIBED BELOW.
THE COST FOR ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS
NECESSARY TO COMPLETE THE CONNECTION TO EXISTING PIPES SHALL BE
INCLUDED IN THE PRICE BID FOR ITEM 837 – LINER PIPE, AS PER PLAN.**

72" CMP AT MP 106.3

24" RCP WEST AT 79'± FROM SOUTH (EB) END"

ATTACHMENTS:

Form Contract: COVER SHEET AND NOTICE TO BIDDERS PAGE NB-2

Bid Form: OTIC-BF-2, OTIC-BF-4 and OTIC-BF-5

Special Provisions: Pages SP-7 and SP-65

Contract Drawings: Sheets 4, 5, 6, 11, 17, 112, 113, 114, 117, 118, 119, 120, 121, 123, 134 through 161 and 225 of 280 (43 total sheets)

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

Addendum No. 1 to is hereby acknowledged:
Contract No. 39-14-01

(Firm Name)

(Signature)

(Printed Name)

Date: _____

**Ohio Turnpike and Infrastructure Commission
682 Prospect Street
Berea, Ohio 44017**

CONTRACT NO. 39-14-01

**RIGHT TWO (2) LANES AND SHOULDER RECONSTRUCTION
MILEPOST 101.2 TO MILEPOST 107.2
SANDUSKY AND ERIE COUNTIES, OHIO**

OPENING DATE: 2:00 P.M. (E.S.T.), FEBRUARY 19 21, 2014

Submitted By:

Company Name: _____

Contact Name: _____

Street Address: _____

City: _____

State: _____ Zip Code: _____

Telephone Number: _____

Fax Number: _____

Email: _____

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and painting of structural steel and concrete weatherproofing. All Work is to be performed as per the Plans, Drawings, Specifications, Special Provisions, and other Contract Documents for Contract No. 39-14-01.

Bids will be accepted until **February 19 21, 2014, at 2:00 P.M. (E.S.T.)**, when all Bids will be accessed, opened and read aloud. To avoid a potential extension of the Bid Opening date and/or a potential rejection of all Bids, it is imperative that Bidders submit all questions in a timely manner and no later than seven (7) days prior to Bid Opening.

Contract Documents are available by registering for a free vendor account and logging into Bid Express® (<https://www.bidexpress.com>). However, Bidders must obtain a paid subscription to Bid Express and select the Project for Bidding to submit a Bid.

The Contract Documents may be reviewed for bidding purposes without charge during business hours at the following locations:

Builders Exchange
9555 Rockside Rd, Ste. 300
Valley View, Ohio 44125
216-393-6300

Ohio Construction News
7261 Engle Rd, Suite 304
Cleveland, Ohio 44130
440-826-4700

or by registering and logging into Bid Express.

A Contract will be awarded, if any award be made, to the Bidder determined to have submitted the lowest responsive and responsible Bid for the performance of the Work. The Commission reserves the right to reject any and all Bids and to waive minor irregularities or technical deficiencies.

**OHIO TURNPIKE AND
INFRASTRUCTURE COMMISSION**
Procurement Department

D.R. 1(29) & 2(5) 2014

CONTRACT NO. 39-14-01 BID FORM

Ref. No.	Item No.	Item Description	Approx. Quantity	Unit	Unit Cost	Extended Bid Amount
		ROADWAY (Ref. Nos. 1 - 34)				
1	201	CLEARING AND GRUBBING	1	LUMP		
2	202	CATCH BASIN OR INLET REMOVED	12	EACH		
3	202	PIPE REMOVED	1,759	FT		
4	202	HEADWALL REMOVED	18	EACH		
5	202	ABANDON MISC.: 30" PIPE FILLED WITH LSM	85	FT		
6	202	FENCE REMOVED	500	FT		
7	202	GUARDRAIL REMOVED, AS PER PLAN	24,517	FT		
8	202	APPROACH SLAB REMOVED	1,356	SQ YD		
9	202	CONCRETE BARRIER REMOVED	676	FT		
10	202	PAVEMENT REMOVED	241,314	SQ YD		
11	203	EXCAVATION	54,978	CU YD		
11A	203	EXCAVATION FOR SLOPE EROSION PROTECTION	1,583	CU YD		
12	203	EMBANKMENT	1,055	CU YD		
13	204	SUBGRADE COMPACTION	1,378	SQ YD		
14	206	CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP, AS PER PLAN	244,502	SQ YD		
15	206	CEMENT	5,300	TON		
16	206	WATER FOR CURING	3,700	M GAL		
17	206	TEST ROLLING	82	HOURL		
18	209	DITCH CLEANOUT	13,918	FT		
19	254	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	14,778	SQ YD		
20	SP526	CLASS C CONCRETE, APPROACH SLAB, USING TYPE I CEMENT (T=12")	1,376	SQ YD		
21	SP536A	MASONRY COATING	1,500	SQ YD		
22	606	GUARDRAIL, TYPE MGS, USING LONG STEEL POSTS	21,635	FT		
23	606	ANCHOR ASSEMBLY, MGS TYPE T, USING LONG STEEL POSTS	22	EACH		
24	606	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1, USING LONG STEEL POSTS	12	EACH		
25	606	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1, USING LONG STEEL POSTS, AS PER PLAN	6	EACH		
26	606	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2, USING LONG STEEL POSTS	13	EACH		
27	606	GUARDRAIL REBUILT	50	FT		
28	SP606E	ANCHOR ASSEMBLY, MGS TYPE E (ET-31)	23	EACH		
29	607	FENCE, TYPE 47, AS PER PLAN	500	FT		
30	609	ASPHALT CONCRETE CURB, TYPE 1, PG64-22	3,767	FT		
31	622	CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN	662	FT		
32	622	CONCRETE BARRIER, TYPE B-50, AS PER PLAN	756	FT		
33	626	BARRIER REFLECTOR, TYPE A	256	EACH		
34	626	BARRIER REFLECTOR, TYPE B	21	EACH		
TOTAL - ROADWAY (Ref. Nos. 1 - 34)						

CONTRACT NO. 39-14-01 BID FORM

Ref. No.	Item No.	Item Description	Approx. Quantity	Unit	Unit Cost	Extended Bid Amount
		DRAINAGE (Ref. Nos. 51 - 71)				
51	503	COFFERDAMS AND EXCAVATION BRACING	1	LUMP		
52	601	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	53	CU YD		
53	603	6" CONDUIT, TYPE F, 707.41 NON-PERFORATED ASTM D3034 (SDR 35) 707.42 OR 707.33	6,689	FT		
54	603	12" CONDUIT, TYPE F, 707.33	650	FT		
55	603	15" CONDUIT, TYPE B, 706.02	20	FT		
56	603	18" CONDUIT, TYPE B, 706.02	1,319	FT		
57	603	30" CONDUIT, TYPE A, 706.02	32	FT		
58	603	30" CONDUIT, TYPE A, 706.33	116	FT		
59	604	CATCH BASIN ADJUSTED TO GRADE, 4" OR LESS, AS PER PLAN	11	EACH		
60	604	CATCH BASIN ADJUSTED TO GRADE, 4" TO 12", AS PER PLAN	24	EACH		
61	604	CATCH BASIN ADJUSTED TO GRADE, GREATER THAN 12", AS PER PLAN	2	EACH		
62	604	CATCH BASIN GRATE AND CASTING, AS PER PLAN	5	EACH		
63	SP604	CATCH BASIN, NO. CB-1	17	EACH		
64	SP605	6" BASE PIPE UNDERDRAIN, WITH FABRIC WRAP	69,131	FT		
65	SP605	6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP	111,875	FT		
66	SPECIAL	PRECAST REINFORCED CONCRETE OUTLET	126	EACH		
67	SPECIAL	12" PRECAST CONCRETE END SECTION	17	EACH		
68	SPECIAL	15" PRECAST CONCRETE END SECTION	1	EACH		
69	SPECIAL	18" PRECAST CONCRETE END SECTION	21	EACH		
70	SPECIAL	30" PRECAST CONCRETE END SECTION	4	EACH		
71	SPECIAL	PIPE CLEANOUT	2,198	FT		
TOTAL - DRAINAGE (Ref. Nos. 51 - 71)						

CONTRACT NO. 39-14-01 BID FORM

Ref. No.	Item No.	Item Description	Approx. Quantity	Unit	Unit Cost	Extended Bid Amount
		PAVEMENT (Ref. Nos. 72 - 91)				
72	251	PARTIAL DEPTH PAVEMENT REPAIR	500	SQ YD		
73	252	FULL DEPTH PAVEMENT SAWING	63,292	FT		
74	255	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS C	700	SQ YD		
75	255	FULL DEPTH PAVEMENT SAWING	700	FT		
76	SP302	BITUMINOUS AGGREGATE BASE, PG64-22	58,606	CU YD		
77	SP304	AGGREGATE BASE (SHOULDER)	17,481	CU YD		
78	SP304	AGGREGATE BASE	29,768	CU YD		
79	SP402	ASPHALT CONC. BASE COURSE OR RECYCLED ASPHALT CONC. BASE COURSE, PG64-22	3,312	CU YD		
80	SP402	ASPHALT CONC. BASE COURSE OR RECYCLED ASPHALT CONC. BASE COURSE, PG70-22 (FR)	9,032	CU YD		
81	SP404	ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED STONE, PG64-22	2,973	CU YD		
82	SP404	ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG70-22 (FR)	7,746	CU YD		
83	SP404A	JOINT SEALER	66,985	FT		
84	SP407	TACK COAT FOR INTERMEDIATE COURSE, AS PER PLAN	15,445	GALLON		
85	SP407	TACK COAT, AS PER PLAN	19,018	GALLON		
86	617	SHOULDER PREPARATION	27,693	SQ YD		
87	617	COMPACTED AGGREGATE	1,471	CU YD		
88	SP627	STONE SHOULDER PROTECTION	1,848	TON		
89	SPECIAL	ASPHALT PAVEMENT REINFORCEMENT	17,588	SQ YD		
90	SPECIAL	SONIC NAP ALERT PATTERN (SNAP)	12.49	MILE		
91	SPECIAL	SAW CUT JOINT	65,319	FT		
TOTAL - PAVEMENT (Ref. Nos. 72 - 91)						

SPECIAL PROVISIONS

\$10,000 per hour for each hour or portion of an hour that two (2) lanes are not open to Turnpike traffic.

5. No single lane traffic zones will be permitted after November 1 through April 1 unless approved by the Chief Engineer. Written request for single lane traffic zones shall be provided to the Chief Engineer at least forty-eight (48) hours in advance.
6. Traffic backups can be expected and should be anticipated by the Contractor. During all phases of construction, the Chief Engineer may restrict or suspend the Contractor's activities as per Article 13.1 - Suspension of the Work, of the General Conditions and/or require both Turnpike roadways to be open to traffic if the weather or traffic conditions should so indicate. Delays caused by these restrictions or suspensions are not the responsibility of the Commission. Once a traffic backup extends ½ mile beyond the first transitional arrow board, the Contractor is to make the work area, safe and remove the lane closure as directed by the Chief Engineer.
7. In the event that any of the above mentioned requirements relative to lane closure(s) are not complied with and/or not authorized by the Chief Engineer, the Commission may impose upon the Contractor a Liquidated Damage in the amount of \$10,000 per hour for each hour or portion of an hour not in compliance.
8. The Contractor may elect to perform the culvert lining construction below the mainline in any construction phase, subject to the requirements of SP104, SP614 and two (2) lanes of traffic are open in each direction from 6:00 A.M. to 10:00 P.M. Prior to performance of this Work, the Contractor shall submit an access plan to the Chief Engineer for approval. The Contractor's access plan shall include but not limited to the following; the intended method of accessing the site, the extent of the material laydown and equipment area, and methods of maintaining proper drainage in the Work area. Existing guardrail lengths and locations shall be shown on the Contractor's access plan.
- I. Proposals for **Temporary Access** (Entrances or Exits) to the Turnpike may be submitted by the Contractor. The Contractor shall enter a lump sum credit in the space provided in the Proposal, setting forth the amount of credit, which will apply in case its proposal for Temporary Access is granted (See Bid form). In addition, ~~he~~ **The Contractor** shall furnish the following information in the sealed envelope containing its **signed original Bid Guaranty/Performance Bond, Power of Attorney, Bidder's Affidavit and completed Financial Statement submitted within twenty-four (24) hours of the Bid Opening in accordance with Articles 2.7.2, 2.7.4 and 6.1.1 of the Instructions to Bidders.**
 1. The exact location of such proposed entrances or exits.
 2. A detailed plan of all construction necessary to provide such access, including any drainage Work necessary and such Work as will be performed to restore the area to its original condition or repair of any damage after construction.

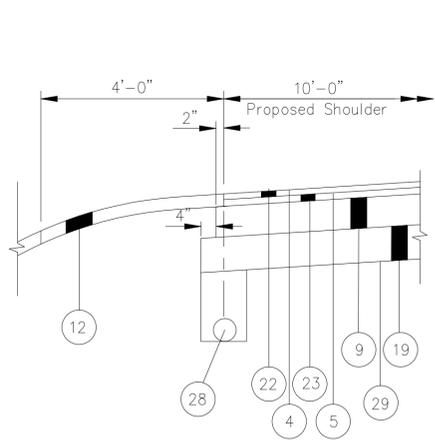
SPECIAL PROVISIONS

Specifications so that the paving Work may be properly prosecuted without appreciable delay to the Work.

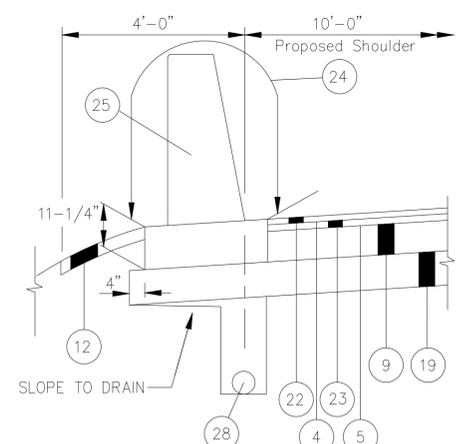
- (i) **A** Material transfer device (MTD) shall be used for all ~~surface~~ course(s) of mainline and ramp paving including **SP404, SP402 and** SP302. The MTD shall be self-propelled and independent of the asphalt spreading and finishing equipment. The MTD shall be capable of remixing and transferring the asphalt mixture from the MTD to the asphalt spreading and finishing equipment.

MTD may be used for shoulder ~~surfacing~~ paving but is not required.

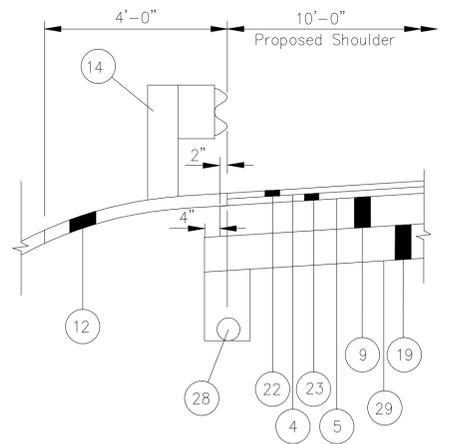
4. The surface of curbs and gutters in actual contact with asphaltic mixtures shall be painted with a thin uniform coating of asphaltic cement to provide a closely bonded watertight joint at these points. After completion of the surface course, the joint shall be sealed by applying asphaltic cement in a uniform width of approximately four (4) inches and at a rate just sufficient to fill surface voids.
5. Immediately after the bituminous mixture for any course has been laid by the paver and before roller compaction is started, the surface shall be checked, any inequalities adjusted, sandy accumulation from the screed removed by rake or hoe, and all fat or segregated spots in any course removed and replaced with satisfactory material. Irregularities in the surface and alignment along the outside edges of base courses shall be corrected by the addition or removal of mixture before the edge is rolled. The Contractor shall provide competent workmen and supervisors who are capable of performing the Work incidental to correcting of all pavement irregularities. Special attention shall be given by him to the straight-edging of each course before completion of the rolling in order to minimize subsequent corrections in the surface course, as required by SP 400S.
6. Mixtures may be spread by hand only upon permission by the Chief Engineer and at such locations as are inaccessible to machine spreading. They shall then be handled and spread by means of heated shovels, lutes, and rakes. Mixtures shall not be applied faster than they can be properly handled and spread. Workmen shall not stand or Work in the hot mixture while it is being placed, and every precaution shall be taken to distribute and spread the material uniformly to avoid segregation of the coarse aggregate and bituminous mortar.
7. Pavement under construction, which becomes contaminated by petroleum products shall be removed and replaced at the Contractor's expense.
8. In areas where pavement settlement, for a distance greater than thirty-five (35) feet, has occurred and more than one (1) layer of leveling course will be required to obtain the original pavement grade, the Contractor shall use automatic leveling control devices as directed by the Chief Engineer. The Contractor shall



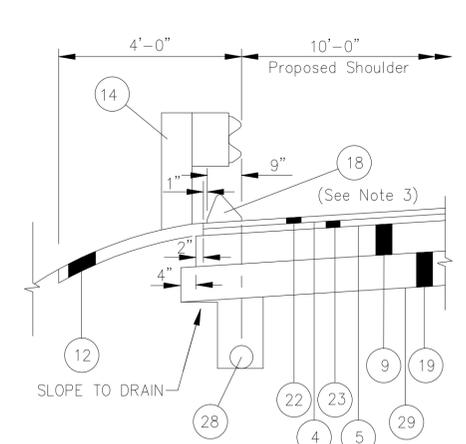
SHOULDER DETAIL
SCALE: 1" = 2'



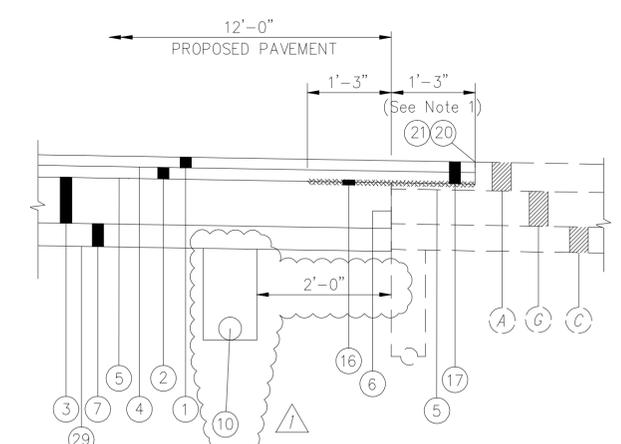
TYPE D SINGLE SLOPE BARRIER DETAIL
SCALE: 1" = 2'



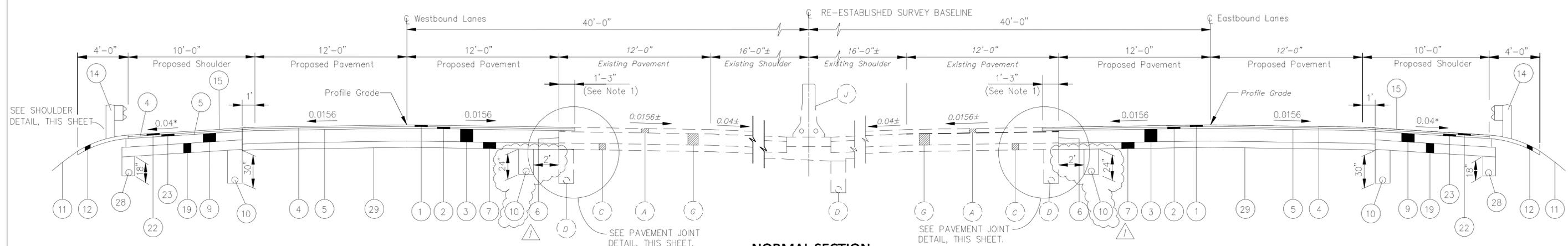
GUARDRAIL SHOULDER DETAIL
SCALE: 1" = 2'



ASPHALT CURB SHOULDER DETAIL
SCALE: 1" = 2'



PAVEMENT JOINT DETAIL
NOT TO SCALE



NORMAL SECTION

STA. 1031+67.55 TO STA. 1036+20.11 =	452.56 L.F.
STA. 1037+67.05 TO STA. 1123+89.67 =	8,622.62 L.F.
STA. 1148+68.92 TO STA. 1178+27.12 =	2,958.20 L.F.
STA. 1205+14.20 TO STA. 1218+94.45 =	1,380.25 L.F.
STA. 1219+39.00 TO STA. 1281+20.97 =	6,181.97 L.F.
STA. 00+00.00 TO STA. 44+14.39 =	4,414.39 L.F.
STA. 54+02.83 TO STA. 54+52.00 =	49.17 L.F.
STA. 55+46.00 TO STA. 65+00.00 =	954.00 L.F.

- NOTE 1: ASPHALT PAVEMENT PLANING OPERATIONS WITHIN THIS 15" AREA SHALL OCCUR AFTER PLACEMENT OF ITEM SP 302 (12") BITUMINOUS AGGREGATE BASE, PG 64-22. REQUIREMENTS FOR ASPHALT PLACED WITHIN THIS 15" AREA SHALL BE IN STRICT COMPLIANCE WITH SP 400.
- NOTE 2: SAW CUT IS REQUIRED. SAW CUT MAY BE WAIVED BY CHIEF ENGINEER PROVIDED CONTRACTOR DEMONSTRATES ABILITY TO PROVIDE A STRAIGHT, VERTICAL FACE CUT WITH NO DAMAGE TO ADJACENT PAVEMENT. SEE SHEET 13 FOR SAW CUTTING NOTES.
- NOTE 3: ASPHALT CURB TO BE SEALED AS PER THE REQUIREMENTS OF SP 400.
- NOTE 4: ALL EXPOSED SUBGRADE WILL HAVE SUBGRADE STABILIZATION PERFORMED USING ITEM 206 - CHEMICALLY STABILIZED SUBGRADE, AS PER PLAN. SEE GENERAL NOTES SHEET 11.
- NOTE 5: FOR ADDITIONAL INFO REGARDING THE PAVEMENT JOINT DETAIL, SEE SHEET 9.

ITEM LEGEND

- | | |
|---|---|
| 1 ITEM SP 404 ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG 70-22 (FR) (1-1/2") | 15 ITEM SPECIAL SONIC NAP ALERT PATTERN (SNAP) |
| 2 ITEM SP 402 ASPHALT CONCRETE BASE COURSE OR RECYCLED ASPHALT CONCRETE BASE COURSE, PG 70-22 (FR) (1-3/4") | 16 ITEM SPECIAL ASPHALT PAVEMENT REINFORCEMENT |
| 3 ITEM SP 302 BITUMINOUS AGGREGATE BASE, PG 64-22 (12") | 17 ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE (3-1/4" DEPTH) |
| 4 ITEM SP 407 TACK COAT FOR INTERMEDIATE COURSE, AS PER PLAN (APPLIED @ 0.06 GAL./S.Y.), SEE SHEET 13. | 18 ITEM 609 ASPHALT CONCRETE CURB, TYPE 1, PG 64-22 |
| 5 ITEM SP 407 TACK COAT, AS PER PLAN (APPLIED @ 0.075 GAL./S.Y.), SEE SHEET 13. | 19 ITEM SP 304 AGGREGATE BASE (9") (SHOULDER) |
| 6 ITEM 252 FULL DEPTH PAVEMENT SAWING | 20 ITEM SP 404A JOINT SEALER (APPLIED TO VERTICAL FACE) |
| 7 ITEM SP 304 AGGREGATE BASE (6") | 21 ITEM SPECIAL SAW CUT JOINT (SEE NOTE 2) |
| 8 NOT USED | 22 ITEM SP 404 ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED STONE, PG 64-22 (1-1/2") |
| 9 ITEM SP 302 BITUMINOUS AGGREGATE BASE, PG 64-22 (T=8") (SHOULDER) | 23 ITEM SP 402 ASPHALT CONCRETE BASE COURSE OR RECYCLED ASPHALT CONCRETE BASE COURSE, PG 64-22 (1-3/4") |
| 10 ITEM SP 605 6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP | 24 ITEM SP 536A MASONRY COATING, SEE SHEET 10. |
| 11 ITEM 659 SEEDING AND MULCHING | 25 ITEM 622 CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN |
| 12 ITEM 617 COMPACTED AGGREGATE (T=3") (WITHOUT GUARDRAIL) | 26 ITEM SP 304 AGGREGATE BASE (12") |
| 13 ITEM SP 526 CLASS C CONCRETE, APPROACH SLAB, USING TYPE I CEMENT (T=12") | 27 ITEM 204 SUBGRADE COMPACTION |
| 14 ITEM 606 GUARDRAIL, TYPE MGS | 28 ITEM SP 605 6" BASE PIPE UNDERDRAIN, WITH FABRIC WRAP |
| | 29 ITEM 206 CHEMICALLY STABILIZED SUBGRADE, AS PER PLAN |

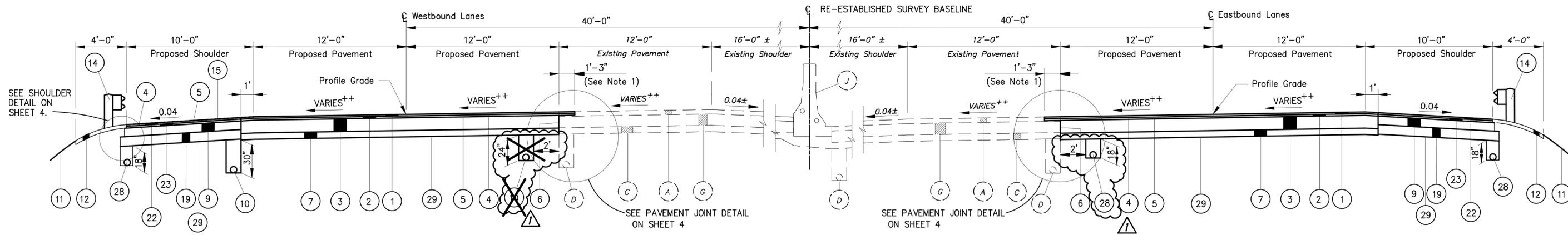
EX. ITEM LEGEND

- (A) ASPHALT CONCRETE (T=5"±)
- (B) 10" REINFORCED CONCRETE PAVEMENT
- (C) 6"± AGGREGATE BASE
- (D) 6" UNDERDRAIN
- (E) REINFORCED CONCRETE APPROACH SLAB (T=10"±)
- (F) 7"± AGGREGATE BASE
- (G) 10"± BITUMINOUS AGGREGATE BASE
- (H) REINFORCED CONCRETE APPROACH SLAB (T=12"±)
- (I) GUARDRAIL, TYPE 5
- (J) CONCRETE BARRIER

* TRANSITION SLOPE FROM 0.04 TO 0.0156 AT APPROACH SLABS (L=65.0')
 STA. 1035+19.6 TO STA. 1035+84.6 (LT)
 STA. 1035+90.8 TO STA. 1036+55.8 (RT)
 STA. 1037+31.6 TO STA. 1037+96.6 (LT)
 STA. 1038+02.3 TO STA. 1038+67.3 (RT)

Drawing File: I:\2013\34786\01C\DWG\34787P.DWG Layout: 4
 Date: Feb 07, 2014 Time: 2:05 pm User: jdc
 Technician: frey

ADDENDUM NO. 1		JDC	2/7/14
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION TYPICAL SECTIONS			
CT Consultants <small>engineers architects planners</small> <small>2100 Spring Creek Avenue, Columbus, OH 43260</small> <small>614.861.9000 www.ctconsultants.com</small>			
DESIGNED:	W.D.B.	CHECKED:	W.D.B.
DRAWN:	D.L.F.	IN CHARGE:	W.D.B.
DATE: JULY, 2013		SCALE: 1"=4"	
CONTRACT 39-14-01 SHEET 4 OF 280			



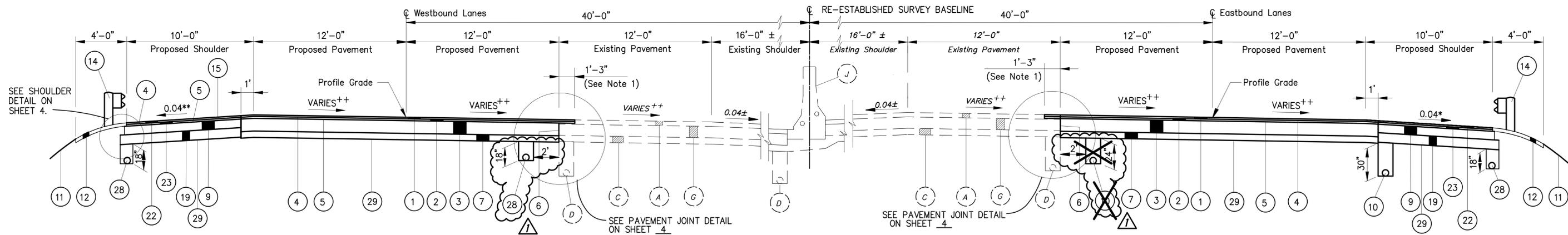
SUPERELEVATED SECTION (LEFT)

STA. 1023+00.00 TO STA. 1031+67.55 = 867.55 L.F.
 STA. 1178+27.12 TO STA. 1205+14.20 = 2,687.08 L.F.
 STA. 44+14.39 TO STA. 54+02.83 = 988.44 L.F.

NOTE 1: ASPHALT PAVEMENT PLANNING OPERATIONS WITHIN THIS 15" AREA SHALL OCCUR AFTER PLACEMENT OF ITEM SP 302 (12") BITUMINOUS AGGREGATE BASE COURSE, PG 64-22. REQUIREMENTS FOR ASPHALT PLACED WITHIN THIS 15" AREA SHALL BE IN STRICT COMPLIANCE WITH SP 400.

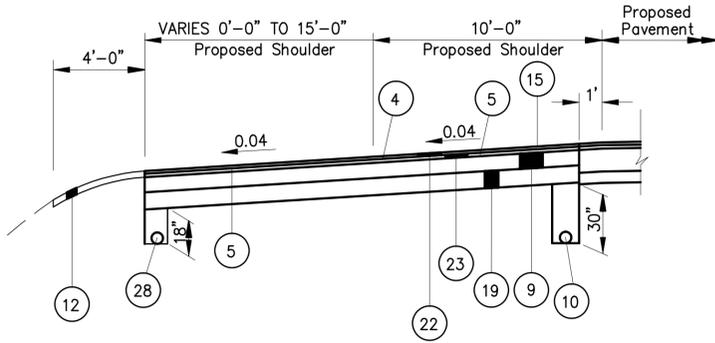
NOTE 2: SAW CUT IS REQUIRED. SAW CUT MAY BE WAIVED BY CHIEF ENGINEER PROVIDED CONTRACTOR DEMONSTRATES ABILITY TO PROVIDE A STRAIGHT, VERTICAL FACE CUT WITH NO DAMAGE TO ADJACENT PAVEMENT. SEE SHEET 13 FOR SAW CUTTING NOTES.

⁺⁺NOTE: SLOPE VARIES. SEE PAVEMENT ELEVATION TABLE SHEETS 164 - 181 FOR SLOPES. (7% MAXIMUM GRADE BREAK FOR SHOULDERS)



SUPERELEVATED SECTION (RIGHT)

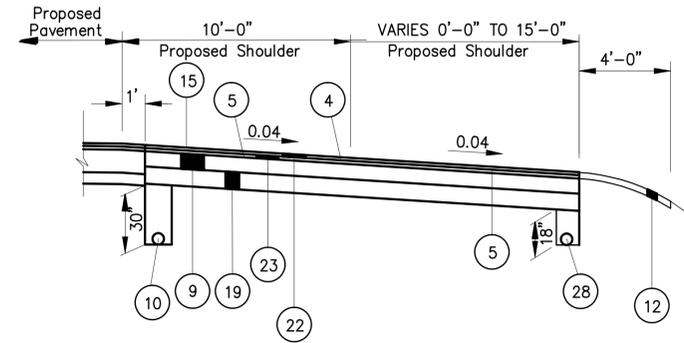
STA. 1123+89.37 TO STA. 1137+75.21 = 1385.84 L.F.
 STA. 1139+86.32 TO STA. 1145+30.58 = 544.23 L.F.
 STA. 1147+12.36 TO STA. 1148+68.92 = 156.56 L.F.



EMERGENCY PULL OFF AREA DETAIL
 STA. 1089+00.00 TO STA. 1094+00.00 = 500.00 L.F. (WESTBOUND)
 STA. 1213+94.45 TO STA. 1218+94.45 = 500.00 L.F. (WESTBOUND)

** TRANSITION SLOPE FROM 0.04 TO 0.0156 AT APPROACH SLABS (L=140.0')
 STA. 1136+88.8 TO STA. 1138+28.8 (LT)
 STA. 1140+36.6 TO STA. 1141+76.6 (LT)
 STA. 1143+74.8 TO STA. 1145+14.8 (LT)
 STA. 1146+95.5 TO STA. 1148+35.5 (LT)

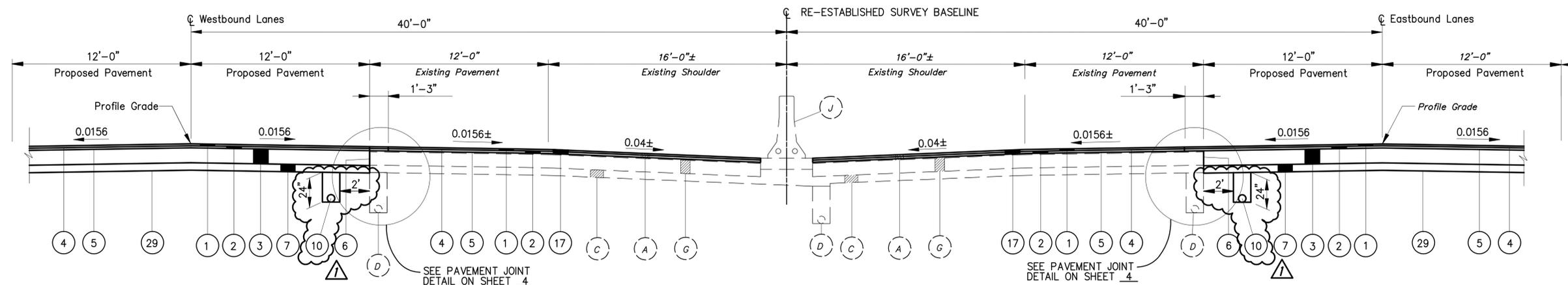
* TRANSITION SLOPE FROM 0.04 TO 0.0156 AT APPROACH SLABS (L=65.0')
 STA. 1136+56.1 TO STA. 1137+21.2 (RT)
 STA. 1139+34.8 TO STA. 1139+99.8 (RT)
 STA. 1144+80.8 TO STA. 1145+46.8 (RT)
 STA. 1147+29.2 TO STA. 1147+94.2 (RT)



EMERGENCY PULL OFF AREA DETAIL
 STA. 1089+00.00 TO STA. 1094+00.00 = 500.00 L.F. (EASTBOUND)
 STA. 1214+50.00 TO STA. 1219+94.45 = 500.00 L.F. (EASTBOUND)

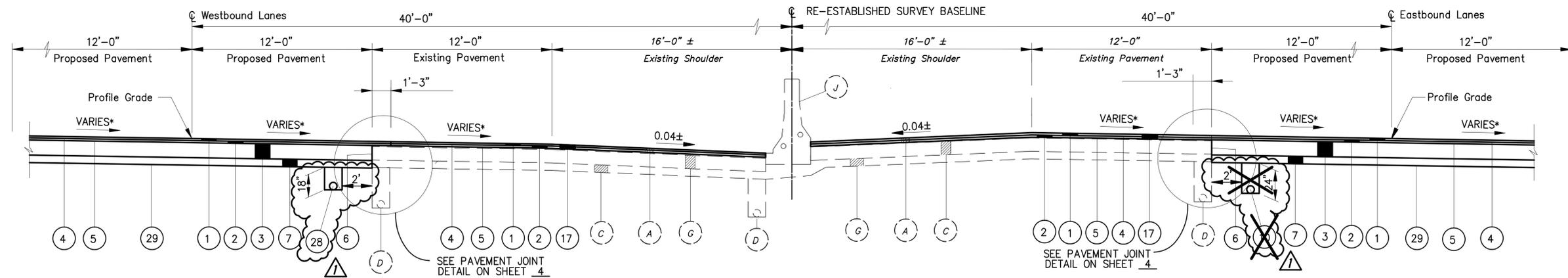
FOR EXISTING AND PROPOSED LEGEND SEE SHEET 4.

ADDENDUM NO. 1		JDC	2/7/14
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION			
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION TYPICAL SECTIONS			
CT Consultants engineers architects planners			
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY, 2013	
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=4'	
CONTRACT 39-14-01 SHEET 5 OF 280			



RESURFACING AT APPROACH SLAB

STA. 1035+34.8 TO STA. 1036+20.1 = 85.3 L.F. (LT)
 STA. 1035+51.8 TO STA. 1036+20.1 = 68.3 L.F. (RT)
 STA. 1037+67.1 TO STA. 1038+35.4 = 68.3 L.F. (LT)
 STA. 1037+67.1 TO STA. 1038+52.2 = 85.1 L.F. (RT)



**RESURFACING AT APPROACH SLAB
 SUPERELEVATED SECTION (RIGHT)**

STA. 1137+07.6 TO STA. 1137+75.2 = 67.6 L.F. (LT)
 STA. 1136+81.7 TO STA. 1137+75.2 = 93.5 L.F. (RT)
 STA. 1139+86.3 TO STA. 1140+78.6 = 92.3 L.F. (LT)
 STA. 1139+86.3 TO STA. 1140+54.0 = 67.7 L.F. (RT)
 STA. 1144+53.9 TO STA. 1145+30.6 = 76.7 L.F. (LT)
 STA. 1144+61.4 TO STA. 1145+30.6 = 69.2 L.F. (RT)
 STA. 1147+12.4 TO STA. 1147+81.6 = 69.2 L.F. (LT)
 STA. 1147+12.4 TO STA. 1147+89.6 = 77.2 L.F. (RT)

FOR EXISTING AND PROPOSED LEGEND SEE SHEET 4.

▲ ADDENDUM NO. 1		JDC	2/7/14
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION			
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION TYPICAL SECTIONS			
CT Consultants <small>engineers architects planners</small>			
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY, 2013	
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=4'	
CONTRACT 39-14-01 SHEET 6 OF 280			

ROADWAY (CONTINUED)

ITEM 206 - CHEMICALLY STABILIZED SUBGRADE, AS PER PLAN

THIS WORK SHALL COMPLY WITH ALL REQUIREMENTS SPECIFIED IN ITEM 206 - CHEMICALLY STABILIZED SUBGRADE OF ODOT 2010 CMS EXCEPT AS NOTED BELOW:

ITEM 206.02 MATERIALS: CURING COAT SUBMITTAL NOT REQUIRED

ITEM 206.03 SUBMITTALS: MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS IS NOT REQUIRED BY THE CONTRACTOR.

ITEM 206.05 CONSTRUCTION

A. SPREADING - USE AN APPLICATION RATE OF 4% PORTLAND CEMENT BY DRY UNIT WEIGHT. THE APPLICATION RATE WILL VARY DEPENDING ON THE IN-SITU DRY UNIT WEIGHT OF THE SOIL. QUANTITIES OF PORTLAND CEMENT ARE BASED ON AN IN-SITU DRY UNIT WEIGHT OF 117 LBS/FT³.

D. CURING - THE TREATED AREA SHALL BE SHAPED TO THE REQUIRED LINES, GRADES, AND CROSS-SECTION AND FINAL COMPACTION USING A SMOOTH DRUM ROLLER WEIGHING AT LEAST 10 TONS AND SHALL CONTINUE UNTIL UNIFORM AND THE REQUIRED COMPACTION IS OBTAINED. MAINTAIN THE SURFACE OF THE CHEMICALLY STABILIZED SOIL SUBGRADE IN A CONTINUALLY MOIST CONDITION DURING THE CURING PERIOD. COMPLETED SECTIONS OF THE STABILIZED SUBGRADE THAT ARE USED DURING THE CONSTRUCTION OF ADJOINING SECTIONS SHALL BE PROTECTED TO PREVENT EQUIPMENT FROM MARRING OR DAMAGING THE COMPLETED WORK. THE ACCEPTANCE OF THE STABILIZED SOIL SUBGRADE WILL BE EVALUATED AFTER 72 HOURS OF CURING AS DETERMINED IN ITEM E - PROOF ROLLING. PROTECT THE STABILIZED SOIL SUBGRADE FROM FREEZING FOR 7 DAYS AFTER COMPLETION AND ACCEPTANCE OR AS DETERMINED BY THE CHIEF ENGINEER. SUFFICIENT PROTECTION FROM FREEZING SHALL BE GIVEN TO THE CHEMICALLY STABILIZED MATERIAL FOR 7 DAYS AFTER ITS CONSTRUCTION OR AS APPROVED BY THE CHIEF ENGINEER.

E. PROOF ROLLING - AFTER THE INITIAL 72-HOUR CURE PERIOD, THE COMMISSION'S AGENT WILL USE AN AUTOMATIC DYNAMIC CONE PENETROMETER (ADCP) TO MEASURE THE PENETRATION RATE (PR) IN MM/BLOW OF THE STABILIZED SOIL SUBGRADE THROUGH THE TOTAL TREATMENT DEPTH. TESTING WILL BE CONDUCTED EVERY 200 LINEAR FEET.

1. IF THE AVERAGE PR IS ABOVE 8 MM/BLOW THE CURE PERIOD SHALL BE EXTENDED FOR 2 DAYS FOLLOWED BY PROOF ROLLING PER ODOT ITEM 204.
2. IF THE AVERAGE PR IS 8 MM/BLOW OR LOWER THE CONTRACTOR MAY PROCEED WITH CONSTRUCTION ON THE STABILIZED SOIL SUBGRADE.

F. PROTECTION - ALL THE PROVISIONS OF 206.05 PARAGRAPH F APPLY AS WELL AS THE FOLLOWING: COMPLETED AND ACCEPTED PORTIONS OF THE STABILIZED SOIL SUBGRADE THAT ARE TRAVELED ON BY EQUIPMENT USED IN CONSTRUCTING ANY OTHER SECTION, OR ANY OTHER WORK, SHALL BE PROTECTED IN SUCH A MANNER AS TO PREVENT EQUIPMENT AND OPERATIONS FROM MARRING OR DAMAGING THE SUBGRADE IN ANY WAY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DAMAGE AND REQUIRED TO REPAIR THE STABILIZED SOIL SUBGRADE THAT ARISES DUE TO HIS OPERATIONS.

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

ITEM 206 - CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP, AS PER PLAN 244,502 SQ. YD.
 ITEM 206 - CEMENT 5,300 TON
 ITEM 206 - WATER FOR CURING 3,700 M GAL.
 ITEM 206 - TEST ROLLING 82 HOURS

CEMENT STABILIZATION AT CULVERTS AND APPROACH SLAB AREAS

BOX CULVERTS WHERE DEPTH OF COVER IS GREATER THAN 4 FEET:
 CHEMICALLY STABILIZE ACCORDING TO ITEM 206 - CHEMICALLY STABILIZED SUBGRADE, AS PER PLAN.

BOX CULVERTS WHERE DEPTH OF COVER IS BETWEEN 2-4 FEET:
 EXCAVATE 12 INCHES OF THE EXPOSED SOIL SUBGRADE FROM 20 FEET BEYOND BOTH ENDS OF THE BOX CULVERT AND SPREAD THE EXCAVATED SOIL IN THE AREA TO BE CHEMICALLY STABILIZED. PERFORM CHEMICAL STABILIZATION ON THE EXCAVATED SOIL USING THE SAME REQUIREMENTS AS THE ADJACENT SUBGRADE. AFTER CHEMICALLY STABILIZING THE EXCAVATED SOIL, PLACE THE EXCAVATED SOIL BACK IN THE EXCAVATION FROM 20 FEET BEYOND BOTH ENDS OF THE BOX CULVERT AND COMPACT ACCORDING TO THE PROJECT SPECIFICATIONS.

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

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 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 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	<u>12 EACH</u>
ITEM 659 - TOPSOIL	<u>10,960 CU YD</u>
ITEM 659 - SEEDING AND MULCHING	<u>98,650 SQ YD</u>
ITEM 659 - REPAIR SEEDING AND MULCHING	<u>4,940 SQ YD</u>
ITEM 659 - INTER-SEEDING	<u>4,940 SQ YD</u>
ITEM 659 - COMMERCIAL FERTILIZER	<u>13.32 TON</u>
ITEM 659 - LIME	<u>20.4 ACRES</u>
ITEM 659 - WATER	<u>540 M GAL</u>

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 TOTAL AREA OF DITCH CLEANOUT AS SHOWN PREVIOUSLY, SLOPE REPAIR AREAS, AND ON THE SLOPES WHERE DRAIN PIPE PLACEMENT OCCURS. FOR THE PURPOSES OF THE DRAIN PIPE REPLACEMENT AREA CALCULATIONS A WIDTH OF 30' AND A LENGTH OF 37' WAS ASSUMED FOR EACH OF THE PIPE PLACEMENT AREAS.

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.

SLOPE EROSION PROTECTION

FOR INDICATED SLOPE EROSION AREAS, REMOVE TOPSOIL FROM THE EXTENTS OF THE INDICATED AREA AND REMOVE SOIL DOWN TO THE LOWEST EXPOSED DEPTH IN THE EROSION AREA OR 12 INCHES, WHICHEVER IS GREATER. REMOVE ALL ROCKS, GRAVEL AND COBBLES AND FOREIGN MATERIAL 1 1/2" OR GREATER FROM THE SLOPE EROSION AREA. PLACE AND COMPACT BACKFILL TO MATCH THE ADJACENT SLOPE AND PLACE 4 INCHES OF TOPSOIL TO MEET EXISTING SLOPE GRADES AT ALL EXTENTS OF THE INDICATED SLOPE. PLACE ITEM 671 - EROSION CONTROL MAT, TYPE B FROM THE TOP OF THE SLOPE DOWN TO THE LOWEST INDICATED EXTENT OF THE SLOPE EROSION CONTROL AREA. CONTINUE THE EROSION CONTROL MAT LATERALLY FIVE (5) FEET BEYOND THE SIDE EXTENTS OF THE SLOPE EROSION AREA. FOR AREAS ADJACENT TO PROPOSED CONCRETE BARRIER, THE TOP OF SLOPE MAT SHALL START AT THE OUTSIDE FACE OF THE BARRIER. FOR ALL OTHER AREAS, THE TOP OF SLOPE MAT SHALL AT THE EDGE OF SHOULDER COMPACTED AGGREGATE BEHIND THE GUARDRAIL.

THE FOLLOWING QUANTITIES ARE PROVIDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

ITEM 203 - EXCAVATION FOR SLOPE EROSION PROTECTION 500 CU YD
 ITEM 203 - EMBANKMENT 333 CU YD
 ITEM 659 - TOPSOIL 167 CU YD
 ITEM 659 - WATER 8 M GAL
 ITEM 671 - EROSION CONTROL MAT, TYPE B 2,240 SQ YD

NO.	ADDENDUM NO. 1	JMP	2/7/14
	REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION			
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION GENERAL NOTES			
			
DESIGNED:	W.D.B.	CHECKED:	W.D.B.
DRAWN:	D.L.F.	IN CHARGE:	W.D.B.
		DATE:	JULY, 2013
		SCALE:	N/A
CONTRACT 39-14-01 SHEET 11 OF 280			

42. ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, FOUR (4) PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS). TWO (2) OF THE SIGNS SHALL BE LOCATED NEAR THE PROJECT SITE, ONE FOR EACH DIRECTION OF TRAVEL, FOR THE DURATION OF THE PROJECT. TWO OF THE SIGNS SHALL BE LOCATED APPROXIMATELY TWENTY-FIVE (25) MILES OUTSIDE THE PROJECT LIMITS, ONE FOR EACH DIRECTION OF TRAVEL, AS DIRECTED BY THE ENGINEER FOR THE DURATION OF THE PROJECT. THE SIGNS SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED CLASS "A" PCMS UNITS MAINTAINED BY THE ODOT DIRECTOR (OFFICE OF MATERIALS MANAGEMENT). THE APPROVED LIST OF PORTABLE CHANGEABLE MESSAGE SIGNS CAN BE FOUND ON THE ODOT WEBSITE BY CLICKING ON THE SERVICES MENU, THEN CLICKING ON MATERIALS MANAGEMENT.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. PCMS TRAILERS SHALL BE DELINEATED ON A PERMANENT BASIS BY AFFIXING CONSPICUITY TAPE CONFORMING TO ODOT CMS 614.03, IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER AS SEEN BY ONCOMING ROAD USERS.

THE PCMS LOCATIONS, LIMITS FOR THOSE LOCATIONS AND ALL ACTIVATION OF PCMS SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE CHIEF ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE CHIEF ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED, FACING AWAY FROM ALL TRAFFIC, AND SHALL DISPLAY ONE OR MORE TYPE G YELLOW RETROREFLECTIVE SHEETING SURFACES OF 9-INCH BY 15-INCH MINIMUM SIZE FACING TRAFFIC.

THE CHIEF ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE TURNPIKE MAINTENANCE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE CHIEF ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRE-CONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF ODOT CMS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE CHIEF ENGINEER TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE OHIO TURNPIKE COMMISSION DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK. THE CONTRACTOR SHALL ONLY BE PAID FOR PCMS UNITS WHEN THEY ARE IN OPERATION ON THE PROJECT AS SPECIFIED IN THE PLANS OR BY THE CHIEF ENGINEER.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 1,920 DAY

DESIGNED BY: P.S.L.	CHECKED BY:
DATE: OCT. 2013	DATE:
DRAWN BY: W.D.L.	REVISED BY:
DATE: OCT. 2013	DATE:
CAD FILE NAME: 13478MOTIGN.DWG	

MAINTENANCE OF TRAFFIC GENERAL NOTES

43. MOT PROJECT CONSTRUCTION PHASING

THE FOLLOWING IS A BRIEF OUTLINE OF THE MOT PROJECT CONSTRUCTION PHASING FOR THIS PROJECT:

PROJECT CONSTRUCTION PHASING

THE FOLLOWING IS A BRIEF OUTLINE OF THE PROJECT CONSTRUCTION PHASING FOR THIS PROJECT.

PRE / POST PHASING WORK TO CONSTRUCT / RESTORE TEMPORARY PAVEMENT AND MEDIAN WALL RECONFIGURATION AND DRAINAGE AT EACH CROSSOVER SHALL FOLLOW THE PLAN SHEETS AND OTC STANDARD CONSTRUCTION DRAWINGS JB-1, MCC-1, MCC-2, TCR-2 AND XOV-3.

DURING PRE PHASING WORK, THE MEDIAN BARRIER SHALL BE REPLACED AT THE FOLLOWING LOCATIONS:

- FROM STA. 1151+75 TO STA. 1154+00
- FROM STA. 1190+75 TO STA. 1191+25
- FROM STA. 1195+00 TO STA. 1196+00

DURING PRE PHASING AND PHASE 1 WORK, THE MEDIAN CATCH BASINS SHALL BE REPLACED AT THE LOCATIONS SHOWN ON SHEET 12 OF THE PLANS.

THE PHASE 1 MAINTENANCE OF TRAFFIC DETAILS OUTLINE THE WORK REQUIRED TO COMPLETE THE MAJORITY OF THE BRIDGE OR APPROACH SLAB WORK, IN THE EASTBOUND DIRECTION, FOR THE THREE (3) MAINLINE STRUCTURES. EASTBOUND TRAFFIC WILL BE MAINTAINED BY UTILIZING THE ONE LANE LOCATED ON THE WESTBOUND PAVEMENT AND ONE TRAFFIC LANE ON THE EXISTING EASTBOUND RIGHT LANE FOR THE FIRST 2.5 MILES OF THE CONSTRUCTION ZONE IN ORDER TO KEEP TRAFFIC OFF THE EXISTING EASTBOUND INSIDE LANES AND SHOULDER. THIS MAINTENANCE OF TRAFFIC PHASING WILL ALLOW THE CONTRACTOR TO COMPLETE THE PARTIAL REMOVAL AND REPLACEMENT OF THE EXISTING STRIP SEALS, REPAIRS TO EXISTING EXPANSION JOINTS AND REPLACEMENT OF A PORTION OF THE EXISTING APPROACH SLAB WHILE ONLY ONE LANE OF TRAFFIC IS LOCATED ON THE OUTSIDE EASTBOUND LANE.

UNDER PHASE 1, THE CONTRACTOR SHALL ESTABLISH THE FULL CONTRA FLOW MAINTENANCE OF TRAFFIC PATTERN FOR APPROXIMATELY 3.6 MILES OF THE CONSTRUCTION ZONE WHICH IS LOCATED ALONG THE EAST END OF THE PROJECT AND BEYOND THE LIMITS OF THE MAINLINE STRUCTURES. THE CONTRACTOR CAN BEGIN ALL WORK ON THE EAST END OF THE PROJECT WHICH IS REQUIRED TO RECONSTRUCT THE EXISTING PAVEMENT WHILE THE NECESSARY STRUCTURE WORK IS COMPLETED WITHIN THE MEDIAN AND INSIDE LANES ALONG THE WEST END OF PHASE 1.

PHASE 1A WILL INVOLVE ESTABLISHING THE FULL CONTRA FLOW MAINTENANCE OF TRAFFIC PATTERN FOR THE ENTIRE LENGTH OF THE PROJECT LIMITS AFTER THE MAINLINE STRUCTURE WORK WITHIN THE AREA OF THE MEDIAN AND INSIDE LANES IS COMPLETED UNDER PHASE 1. THE MAJORITY OF THE RECONSTRUCTION OF THE EASTBOUND PAVEMENT FOR THIS PROJECT WILL OCCUR UNDER THIS PHASE OF CONSTRUCTION.

UNDER PHASE 1A, THE CONTRACTOR WILL ALSO COMPLETE THE PARTIAL REMOVAL AND REPLACEMENT OF THE EXISTING STRIP SEALS, REPAIRS TO EXISTING EXPANSION JOINTS AND REPLACEMENT OF A PORTION OF THE EXISTING APPROACH SLAB WHILE ONLY ONE LANE OF EASTBOUND TRAFFIC IS LOCATED ON A PORTION OF THE INSIDE SHOULDER AND INSIDE THIRD LANE. THE CONTRACTOR WILL HAVE ACCESS TO THE EXISTING EASTBOUND OUTSIDE TWO LANES AND SHOULDER TO COMPLETE NECESSARY STRUCTURE WORK NOT COMPLETED UNDER PHASE 1.

THE CONTRACTOR MUST COMPLETE ALL WORK TO RECONSTRUCT THE EASTBOUND PAVEMENT OUTLINED IN PHASE 1 AND 1A WITHIN THE FIRST CONSTRUCTION SEASON OF THIS PROJECT. ALL EXISTING LANES OF TRAFFIC MUST BE REOPENED TO TRAFFIC BY NOVEMBER 15TH. THE CONTRA FLOW MAINTENANCE OF TRAFFIC PATTERN SHALL NOT REMAIN IN PLACE OVER THE WINTER.

THE PHASE 2 MAINTENANCE OF TRAFFIC DETAILS OUTLINE THE WORK REQUIRED TO COMPLETE THE MAJORITY OF THE BRIDGE OR APPROACH SLAB WORK, IN THE WESTBOUND DIRECTION, FOR THE THREE (3) MAINLINE STRUCTURES. WESTBOUND TRAFFIC WILL BE MAINTAINED BY UTILIZING THE ONE LANE LOCATED ON THE EASTBOUND PAVEMENT AND ONE TRAFFIC LANE ON THE EXISTING WESTBOUND OUTSIDE SHOULDER FOR THE FIRST 2.5 MILES OF THE CONSTRUCTION ZONE IN ORDER TO KEEP TRAFFIC OFF THE EXISTING WESTBOUND INSIDE LANES AND SHOULDER.

THIS MAINTENANCE OF TRAFFIC PHASING WILL ALLOW THE CONTRACTOR TO COMPLETE THE PARTIAL REMOVAL AND REPLACEMENT OF THE EXISTING STRIP SEALS, REPAIRS TO EXISTING EXPANSION JOINTS AND REPLACEMENT OF A PORTION OF THE EXISTING APPROACH SLAB WHILE ONLY ONE LANE OF TRAFFIC IS LOCATED ON THE OUTSIDE WESTBOUND LANE.

UNDER PHASE 2, THE CONTRACTOR SHALL ESTABLISH THE FULL CONTRA FLOW MAINTENANCE OF TRAFFIC PATTERN FOR APPROXIMATELY 3.6 MILES OF THE CONSTRUCTION ZONE WHICH IS LOCATED ALONG THE EAST END OF THE PROJECT AND BEYOND THE LIMITS OF THE MAINLINE STRUCTURES. THE CONTRACTOR CAN BEGIN ALL WORK ON THE EAST END OF THE PROJECT WHICH IS REQUIRED TO RECONSTRUCT THE EXISTING PAVEMENT WHILE THE NECESSARY STRUCTURE WORK IS COMPLETED WITHIN THE MEDIAN AND INSIDE LANES ALONG THE WEST END OF PHASE 2.

PHASE 2A WILL INVOLVE ESTABLISHING THE FULL CONTRA FLOW MAINTENANCE OF TRAFFIC PATTERN FOR THE ENTIRE LENGTH OF THE PROJECT LIMITS AFTER THE MAINLINE STRUCTURE WORK WITHIN THE AREA OF THE MEDIAN AND INSIDE LANES IS COMPLETED UNDER PHASE 2. THE MAJORITY OF THE RECONSTRUCTION OF THE WESTBOUND PAVEMENT FOR THIS PROJECT WILL OCCUR UNDER THIS PHASE OF CONSTRUCTION.

UNDER PHASE 2A, THE CONTRACTOR WILL ALSO COMPLETE THE PARTIAL REMOVAL AND REPLACEMENT OF THE EXISTING STRIP SEALS, REPAIRS TO EXISTING EXPANSION JOINTS AND REPLACEMENT OF A PORTION OF THE EXISTING APPROACH SLAB WHILE ONLY ONE LANE OF WESTBOUND TRAFFIC IS LOCATED ON A PORTION OF THE INSIDE SHOULDER AND INSIDE THIRD LANE. THE CONTRACTOR WILL HAVE ACCESS TO THE EXISTING WESTBOUND OUTSIDE TWO LANES AND SHOULDER TO COMPLETE NECESSARY STRUCTURE WORK NOT COMPLETED UNDER PHASE 2.

44. LANE CLOSURE RESTRICTION

THE OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION WILL NOT ALLOW THE CLOSURE OF THE TWO (2) TRAFFIC LANES WHICH ARE LOCATED ON THE OPPOSITE SIDE OF THE TURNPIKE FROM THE BASE REPLACEMENT WORK AFTER THE TEMPORARY MAINTENANCE OF TRAFFIC SCHEME FOR EACH PHASE OF CONSTRUCTION IS IN OPERATION. THE CONTRACTOR SHALL SCHEDULE HIS/HER WORK SO THAT A LANE CLOSURE OF EITHER OF THESE TWO (2) LANES IS NOT REQUIRED DURING THE DURATION OF EACH PHASE OF CONSTRUCTION.

45. STORAGE OF TEMPORARY PORTABLE BARRIER

THE COMMISSION WILL ALLOW STORAGE OF TEMPORARY PORTABLE BARRIER WALL ON TURNPIKE RIGHT OF WAY AT TOLL PLAZAS (TP) 91.6 AND 110.2. SPACE IS AVAILABLE AT EACH TOLL PLAZA. THE CONTRACTOR SHALL VERIFY THE AMOUNT OF SPACE THAT IS AVAILABLE AT EACH TOLL PLAZA. THE AVAILABLE SPACE AT THE TOLL PLAZAS MAY REQUIRE MINIMAL GRADING TO PREPARE THE SURFACE FOR LEVEL AND STABLE STORAGE. EITHER ASPHALT MILLINGS OR CRUSHED AGGREGATE MAY BE USED AT THE CONTRACTOR'S OWN EXPENSE TO GRADE AND STABILIZE THE STORAGE AREA. TEMPORARY PORTABLE BARRIER SHALL NOT BE STORED HIGHER THAN THREE PIECES HIGH. TYPICAL STORAGE ANTICIPATED WOULD BE IN CUBES OF 5 TEMPORARY PORTABLE BARRIER SECTIONS ALTERNATELY STACKED 3 HIGH OR AS RECOMMENDED BY THE MANUFACTURER. RESTORATION OF THE AREA WILL BE REQUIRED TO ORIGINAL OR BETTER CONDITIONS AS APPROVED BY THE CHIEF ENGINEER PRIOR TO FINAL COMPLETION. ALL BROKEN BARRIER AND DEBRIS SHALL BE REMOVED FROM THESE AREAS ONCE COMPLETE AND DISPOSED IN ACCORDANCE WITH SP105. FLAGGERS WILL BE REQUIRED FOR ANY TURNING MOVEMENTS IN FRONT OF THE TOLL PLAZAS PER THE OTC'S STANDARDS. THE CONTRACTOR SHALL PROVIDE A UTILIZATION PLAN TO THE CHIEF ENGINEER FOR APPROVAL. THIS PLAN SHALL INCLUDE THE FOLLOWING: AN AERIAL DRAWING OF THE TOLL PLAZA WHICH DEFINES THE STORAGE AREA, SIZE OF AREA REQUIRED, DESCRIPTION OF HOW THE BARRIER IS TO BE STORED, DESCRIPTION OF WORK REQUIRED TO PREPARE THE STORAGE AREA WHICH INCLUDES TYPE OF SURFACE TO BE INSTALLED IF REQUIRED, GRADING THAT PROVIDES POSITIVE DRAINAGE AND ANY EROSION CONTROL MEASURES REQUIRED, AND THE LOGISTICS TO STORE AND RETRIEVE THE STORED TEMPORARY PORTABLE BARRIER TO AND FROM THE TOLL PLAZA. ALL COSTS ASSOCIATED WITH THE STORAGE OF TEMPORARY PORTABLE BARRIER SHALL BE CONSIDERED INCIDENTAL TO THE LUMP SUM PRICE BID OF ITEM SP622A - TEMPORARY PORTABLE BARRIER.

ADDENDUM NO. 1	DLF	2/7/14
NO. REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
MAINTENANCE OF TRAFFIC GENERAL NOTES		
 <small>engineers architects planners</small> <small>2200 Boring Court, Akron, Ohio 44316</small> <small>440.251.1000</small>		
DESIGNED: W.D.L.	CHECKED: E.J.T.	DATE: OCT. 2013
DRAWN: W.D.L.	IN CHARGE: W.D.B.	SCALE: N.T.S.
CONTRACT 39-14-01 SHEET 17 OF 280		

SHEET NUMBER																	ITEM	GRAND TOTAL	UNIT	DESCRIPTION	REF. NO.				
10	11	12	13				115	115A	116	118		121	122	123	124	125						126	163		
			1,100																	251	1,100	SQ YD	PARTIAL DEPTH PAVEMENT REPAIR	13	
												63,292								252	63,292	FT	FULL DEPTH PAVEMENT SAWING		
			700																	255	700	SQ YD	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS C		
			1,500																	255	1,500	FT	FULL DEPTH PAVEMENT SAWING		
												14,978								SP302	14,978	CU YD	BITUMINOUS AGGREGATE BASE, PG64-22 (SHOULDER)		
												58,608								SP302	58,608	CU YD	BITUMINOUS AGGREGATE BASE, PG64-22		
												17,481								SP304	17,481	CU YD	AGGREGATE BASE (SHOULDER)		
												29,768								SP304	29,768	CU YD	AGGREGATE BASE		
												3,306								SP402	3,306	CU YD	ASPHALT CONC. BASE COURSE OR RECYCLED ASPHALT CONC. BASE COURSE, PG64-22		
												9,032								SP402	9,032	CU YD	ASPHALT CONC. BASE COURSE OR RECYCLED ASPHALT CONC. BASE COURSE, PG70-22 (FR)		
												2,825								148	SP404	2,973	CU YD	ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED STONE, PG64-22	
												7,746								SP404	7,746	CU YD	ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG70-22 (FR)		
												63,292								3,693	SP404A	66,985	FT	JOINT SEALER	
												15,222								212	SP407	15,434	GALLON	TACK COAT FOR INTERMEDIATE COURSE, AS PER PLAN	13
												19,018								SP407	19,018	GALLON	TACK COAT, AS PER PLAN	13	
													27,693							617	27,693	SQ YD	SHOULDER PREPARATION		
												1,471								617	1,471	CU YD	COMPACTED AGGREGATE		
												1,848								SP627	1,848	TON	STONE SHOULDER PROTECTION		
												17,588								SPECIAL	17,588	SQ YD	ASPHALT PAVEMENT REINFORCEMENT	13	
			63,292									12.10								0.39	SPECIAL	12.49	MILE	SONIC NAP ALERT PATTERN (SNAP)	
																				2,027	SPECIAL	65,319	FT	SAW CUT JOINT	13
BRIDGE MAINTENANCE																									
FOR BRIDGE MAINTENANCE AND CULVERT MAINTENANCE OVERALL SUMMARIES SEE SHEETS 226-230																									
TRAFFIC CONTROL																									
FOR TRAFFIC CONTROL GENERAL SUMMARY SEE SHEET 183																									
MAINTENANCE OF TRAFFIC																									
FOR MAINTENANCE OF TRAFFIC GENERAL SUMMARY SEE SHEET 22																									
GENERAL																									
																				IB, ART.6	1	LUMP	PREMIUM FOR CONTRACT PERFORMANCE BOND AND PAYMENT BOND		
																					SP619	1	LUMP	FIELD OFFICE	
																					SP623	1	LUMP	CONSTRUCTION LAYOUT SURVEY	
																					624	1	LUMP	MOBILIZATION	

DESIGNED BY: J.M.P. | CHECKED BY: | DATE: 11/10/13
DRAWN BY: D.L.F. | REVISED BY: | DATE: 11/21/2013
CAD FILE NAME: 13476-GENERAL-SUMMARY.DWG

ADDENDUM NO. 1	JMP	2/7/14
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: J.M.P.	CHECKED: W.D.B.	DATE: NOV., 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: NONE
CONTRACT 39-14-01 SHEET 114 OF 280		

UNDERDRAIN SUBSUMMARY - COLUMN 1

REF NO.	SHEET NO.	STATION		SIDE	LENGTH	6" CONDUIT, TYPE F, 707.41 NON-PERF. ASTM D3034 (SDR35) 707.42 OR 707.33					INFO ONLY	SPECIAL	
		FROM	TO			LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	EACH			EACH
UD-01	134	1023+00		LT		50				3	1		
UD-02	134	1023+00	1026+65	RT	365		365		365				
UD-03	134	1023+00		RT		57				2	1		
UD-04	134	1023+00	1027+00	RT	400				800				
UD-05	134	1026+65		LT		50				3	1		
UD-06	134	1026+65	1031+65	LT	500			500					
UD-07	134	1026+65	1031+65	LT	500		500		500				
UD-08	134	1027+00		RT		48				3	1		
UD-09	134	1027+00	1030+75	RT	375		375		375				
UD-10	135	1030+75		RT		48				3	1		
UD-11	135	1031+65		LT		48				3	1		
UD-12	135	1030+75	1032+76	RT	201		201		201				
UD-13	135	1031+65	1035+75	LT	410		410		410				
UD-14	135	1032+76		RT		25				3			
UD-15	135	1032+76	1036+10	RT	334		334		334				
UD-16	135	1037+40		LT		57				4	1		
UD-17	135	1037+40	1042+00	LT	460		460		460				
UD-18	135	1038+10		RT		32				2			
UD-19	135	1038+10	1041+00	RT	290		290		290				
UD-20	136	1041+00		RT		48				3	1		
UD-21	136	1042+00		LT		48				3	1		
UD-22	136	1041+00	1046+00	RT	500		500		500				
UD-23	136	1042+00	1045+65	LT	365		365		365				
UD-24	136	1045+65		LT		48				3	1		
UD-25	136	1046+00		RT		48				3	1		
UD-26	136	1045+65	1049+65	LT	400		400		400				
UD-27	136	1046+00	1051+00	RT	500		500		500				
UD-28	136	1049+65		LT		48				3	1		
UD-29	136	1051+00		RT		48				3	1		
UD-30	136	1049+65	1053+65	LT	400		400		400				
UD-31	136	1051+00	1056+00	RT	500		500		500				
UD-32	137	1056+00		RT		48				3	1		
UD-33	137	1053+65	1057+65	LT	400		400		400				
UD-33A	137	1053+65		LT		48				3	1		
UD-34	137	1057+65		LT		48				3	1		
UD-35	137	1056+00	1060+00	RT	500		500		500				
UD-36	137	1060+00		RT		48				3	1		
UD-37	137	1057+65	1061+65	LT	400		400		400				
UD-38	137	1061+65		LT		48				3	1		
UD-39	137	1060+00	1065+00	RT	500		500		500				
UD-40	137	1061+65	1065+40	LT	375		375		375				
UD-41	138	1065+40		LT		48				3	1		
UD-42	138	1065+00		RT		48				3	1		
UD-43	138	1065+40	1068+65	LT	325		325		325				
UD-44	138	1065+00	1070+00	RT	500		500		500				
UD-45	138	1068+65		LT		48				3	1		
UD-46	138	1070+00		RT		48				3	1		
UD-47	138	1068+65	1071+65	LT	300		300		300				
UD-48	138	1070+00	1075+00	RT	500		500		500				
UD-49	138	1071+65		LT		48				3	1		
UD-50	138	1071+65	1074+65	LT	400		400		400				
UD-51	138	1074+55		LT		48				3	1		
UD-52	138	1075+00		RT		48				3	1		
UD-53	138	1074+65	1079+65	LT	500		500		500				
UD-54	138	1075+00	1080+00	RT	500		500		500				
UD-55	139	1080+00		RT		48				3	1		
UD-56	139	1079+65		LT		48				3	1		
UD-57	139	1080+00	1085+00	RT	500		500		500				
UD-58	139	1079+65	1082+65	LT	300		300		300				
UD-59	139	1082+65		LT		48				3	1		
UD-60	139	1082+65	1087+65	LT	500		500		500				
UD-61	139	1085+00		RT		48				3	1		
UD-62	139	1085+00	1095+00	RT	1000		1000		1003				
UD-63	139	1087+65		LT		48				3	1		
UD-64	139	1087+65	1095+65	LT	800		800		803				
UD-65	140	1095+65		LT		48				3	1		
UD-66	140	1095+65	1100+00	LT	435		435		435				
UD-67	140	1100+00		LT		48				3	1		
UD-68	140	1095+00		RT		48				3	1		
UD-69	140	1095+00	1100+00	RT	500		500		500				
UD-70	140	1100+00		RT		48				3	1		
SUBTOTAL COLUMN 1						1711	14835	14470	15641	107	34		

UNDERDRAIN SUBSUMMARY - COLUMN 2

REF NO.	SHEET NO.	STATION		SIDE	LENGTH	6" CONDUIT, TYPE F, 707.41 NON-PERF. ASTM D3034 (SDR35) 707.42 OR 707.33					INFO ONLY	SPECIAL	
		FROM	TO			LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	EACH			EACH
UD-71	141	1100+00	1105+00	RT	500								
UD-72	141	1105+00		RT		48				3	1		
UD-73	141	1100+00	1103+65	LT	365		365		365				
UD-74	141	1103+65		LT		48				3	1		
UD-75	141	1103+65	1106+57	LT	292		292		292				
UD-76	141	1106+57		LT		48				3	1		
UD-77	141	1105+00	1109+69	RT	469		469		469				
UD-78	141	1106+57	1109+32	LT	275		275		275				
UD-79	141	1109+32		LT		48				3	1		
UD-80	141	1109+57	1113+75	LT	418		418		418				
UD-81	141	1110+05		RT		48				3	1		
UD-82	141	1110+05	1114+50	RT	445		445		445				
UD-83	142	1114+50		RT		48				3	1		
UD-84	142	1113+75		LT		48				3	1		
UD-85	142	1113+75	1118+75	LT	500		500		500				
UD-86	142	1118+75		LT		48				3	1		
UD-87	142	1114+50	1120+75	RT	625		625		625				
UD-88	142	1120+75		RT		32				2			
UD-89	142	1120+75	1124+31	RT	356		356		356				
UD-90	142	1118+75	1123+75	LT	500		500		500				
UD-91	142	1123+75		LT		48				3	1		
UD-92	142	1123+75	1128+70	LT	495				990				
UD-93	142	1123+75	1125+65	LT	190		190						
UD-94	143	1124+31		RT		33				2			
UD-95	143	1124+31	1127+07	RT	276		276		276				
UD-96	143	1127+07		RT		33				2			
UD-97	143	1127+07	1129+83	RT	276		276		276				
UD-98	143	1129+83		RT		33				2			
UD-99	143	1128+70		LT		57				2			
UD-100	143	1128+70	1133+35	LT	465				930				
UD-101	143	1133+35		LT		57				2			
UD-102	143	1129+83	1132+58	RT	275		275		275				
UD-103	143	1132+58		RT		33				2			
UD-104	143	1132+58	1134+60	RT	202		202		202				
UD-105	143	1134+60		RT		33				2			
UD-106	143	1138+28	1133+35	LT	493				986				
UD-107	143	1134+60	1137+19	RT	259		259		259				
UD-108	144	1139+41	1140+11	RT	70		70		70				
UD-109	144	1140+11		RT		33				2			
UD-110	144	1140+11	1142+05	RT	194		194		194				
UD-111	144	1142+05		RT		33				2			
UD-112	144	1142+05	1145+38	RT	333		333		333				
UD-113	144	1145+38		RT		33				2			
UD-114	144	1140+17	1144+51	LT	434				868				
UD-115	144	1144+51		LT		57				2	1		
UD-116	144	1147+36	1150+61	RT	325		325		325				
UD-117	144	1146+96	1152+00	LT	504		504		504				
UD-118	145	1150+61		RT		32				2			
UD-119	145	1152+00		LT		48				3	1		
UD-120	145	1152+00	1156+40	LT	440		440		440				
UD-121	145	1156+40		LT		48				3	1		
UD-122	145	1156+40	1159+50	LT	310		310		310				
UD-123	145	1150+61	1153+60	RT	299		299		299				
UD-124	145	1153+60		RT		32				2			
UD-125	145	1153+60	1159+45	RT	585		585		585				
UD-126	146	1159+45		RT		48				3	1		
UD-127	146	1159+55		RT		48				3	1		
UD-128	146	1159+50		LT		48				3	1		
UD-129	146	1159+50	1164+50	LT	500		500		500				
UD-130	146	1164+50		LT		48				3	1		
UD-131	146	1164+50	1169+50	LT	500		500		500				
UD-132	146	1169+50		LT		48				3	1		
UD-133	146	1159+55	1164+50	RT	495		495						

UNDERDRAIN SUBSUMMARY - COLUMN 4

REF NO.	SHEET NO.	STATION		SIDE	LENGTH FT.	603	SP605	SP605	SP605	INFO ONLY CROSSES, BENDS, ELBOWS AND TEES EACH	SPECIAL PRECAST REINFORCED CONCRETE OUTLET EACH
		6" CONDUIT, TYPE F, 707.41 NON-PERF. ASTM D3034 (SDR35) 707.42 OR 707.33	6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP (30")			6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP (24")	6" BASE PIPE UNDERDRAIN WITH FABRIC WRAP	LIN. FT.	LIN. FT.		
		FROM	TO								
UD-181	151	1223+05	1224+95	RT	190		190	190	190		
UD-182	151	1224+95		RT	48					3	1
UD-183	151	1224+95	1229+45	RT	450		450	450	450		
UD-184	151	1229+45		RT	48					3	1
UD-185	151	1229+45	1233+95	RT	450		450	450	450		
UD-186	152	1232+00		LT	48					3	1
UD-187	152	1232+00	1237+00	LT	500		500	500	500		
UD-188	152	1237+00		LT	48					3	1
UD-189	152	1237+00	1239+00	LT	200		200	200	200		
UD-190	152	1239+00		LT	48					3	1
UD-191	152	1239+00	1242+10	LT	310		310	310	310		
UD-192	152	1233+95		RT	48					3	1
UD-193	152	1233+95	1237+00	RT	305		305	305	305		
UD-194	152	1237+00		RT	48					3	1
UD-195	152	1237+00	1238+00	RT	100		100	100	100		
UD-196	152	1238+00		RT	48					3	1
UD-197	152	1238+00	1243+00	RT	500		500	500	500		
UD-198	153	1242+10		LT	48					3	1
UD-199	153	1242+10	1246+80	LT	470		470	470	470		
UD-200	153	1246+80		LT	48					3	1
UD-201	153	1246+80	1250+80	LT	400		400	400	400		
UD-202	153	1250+80		LT	48					3	1
UD-203	153	1243+00		RT	48					3	1
UD-204	153	1243+00	1247+25	RT	425		425	425	425		
UD-205	153	1247+25		RT	48					3	1
UD-206	153	1247+25	1251+50	RT	425		425	425	425		
UD-207	153	1251+50		RT	48					3	1
UD-208	153	1251+50	1255+75	RT	475		475	475	475		
UD-209	153	1250+80	1254+80	LT	400		400	400	400		
UD-210	154	1254+80		LT	48					3	1
UD-211	154	1254+80	1260+00	LT	520		520	520	520		
UD-212	154	NOT USED									
UD-213	154	NOT USED									
UD-214	154	1260+00	1264+00	LT	400		400	400	400		
UD-215	154	1264+00		LT	48					3	1
UD-216	154	1264+00	1267+95	LT	395		395	395	395		
UD-217	154	1255+75		RT	48					3	1
UD-218	154	1255+75	1260+00	RT	425		425	425	425		
UD-219	154	1260+00	1265+00	RT	500		500	500	500		
UD-220	154	1265+00		RT	48					3	1
UD-221	154	1265+00	1270+00	RT	500		500	500	500		
UD-222	155	1267+95		LT	48					3	1
UD-223	155	1267+95	1272+95	LT	500		500	500	500		
UD-224	155	1272+95		LT	48					3	1
UD-225	155	1272+95	1277+90	LT	495		495	495	495		
UD-226	155	1277+90		LT	48					3	1
UD-227	155	1270+00		RT	48					3	1
UD-228	155	1270+00	1275+00	RT	500		500	500	500		
UD-229	155	1275+00		RT	48					3	1
UD-230	155	1275+00	1280+00	RT	500		500	500	500		
UD-231	156	1277+90	0+50	LT	381		381	381	381		
UD-232	156	0+50		LT	48					3	1
UD-233	156	0+50	4+00	LT	350		350	350	350		
UD-234	156	4+00		LT	48					3	1
UD-235	156	4+00	8+00	LT	400		400	400	400		
UD-236	156	8+00		LT	48					3	1
UD-237	156	8+00	12+00	LT	400		400	400	400		
UD-238	156	1280+00		RT	48					3	1
UD-239	156	1280+00	4+00	RT	521		521	521	521		
UD-240	156	4+00		RT	48					3	1
UD-241	156	4+00	6+85	RT	285		285	285	285		
UD-242	156	6+85		RT	48					3	1
UD-243	156	6+85	11+85	RT	500		500	500	500		
UD-244	157	12+00		LT	48					3	1
UD-245	157	12+00	15+55	LT	355		355	355	355		
UD-246	157	15+55		LT	48					3	1
UD-247	157	15+55	20+05	LT	450		450	450	450		
UD-248	157	20+05		LT	48					3	1
UD-249	157	20+05	23+75	LT	370		370	370	370		
UD-250	157	11+85		RT	48					3	1
SUBTOTAL COLUMN 4						1584	14347	14347	14347	99	33

UNDERDRAIN SUBSUMMARY - COLUMN 5

REF NO.	SHEET NO.	STATION		SIDE	LENGTH FT.	603	SP605	SP605	SP605	INFO ONLY CROSSES, BENDS, ELBOWS AND TEES EACH	SPECIAL PRECAST REINFORCED CONCRETE OUTLET EACH
		6" CONDUIT, TYPE F, 707.41 NON-PERF. ASTM D3034 (SDR35) 707.42 OR 707.33	6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP (30")			6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP (24")	6" BASE PIPE UNDERDRAIN WITH FABRIC WRAP	LIN. FT.	LIN. FT.		
		FROM	TO								
UD-251	157	11+85	16+00	RT	415		415	415	415		
UD-252	157	16+00		RT	48					3	1
UD-253	157	16+00	20+00	RT	400		400	400	400		
UD-254	157	20+00		RT	48					3	1
UD-255	157	20+00	25+00	RT	500		500	500	500		
UD-256	158	23+75		LT	48					3	1
UD-257	158	23+75	30+05	LT	630		630	630	630		
UD-258	158	30+05		LT	48					3	1
UD-259		NOT USED									
UD-260	158	30+05	35+05	LT	500		500	500	500		
UD-261	158	25+00		RT	48					3	1
UD-262	158	25+00	30+00	RT	500		500	500	500		
UD-263	158	30+00		RT	48					3	1
UD-264	158	30+00	35+00	RT	500		500	500	500		
UD-265	159	35+05		LT	48					3	1
UD-266	159	35+05	40+05	LT	500		500	500	500		
UD-267	159	40+05		LT	48					3	1
UD-268	159	40+05	45+05	LT	500		500	500	500		
UD-269	159	35+00		RT	48					3	1
UD-270	159	35+00	40+00	RT	500		500	500	500		
UD-271	159	40+00		RT	48					3	1
UD-272	159	40+00	44+50	RT	450		450	450	450		
UD-273	159	44+50		RT	48					3	1
UD-274	159	44+50	45+90	RT	140		140				
UD-275	159	44+50	49+00	RT	450				900		
UD-276	160	45+05		LT	50					3	1
UD-277	160	45+05	49+00	LT	395		395		395		
UD-278	160	49+00		LT	50					3	1
UD-279	160	49+00	53+00	LT	400		400		400		
UD-280	160	53+00	57+00	LT	400		400	400	400		
UD-281	160	57+00		LT	48					3	1
UD-282	160	49+00		RT	51					2	1
UD-283	160	49+00	53+00	RT	400				800		
UD-284	160	53+00	57+00	RT	400		400	400	400		
UD-285	160	57+00		RT	48					3	1
UD-286	161	57+00	59+90	LT	290		290	290	290		
UD-287	161	59+90		LT	48					3	1
UD-288	161	59+90	65+00	LT	510		510	510	510		
UD-289	161	65+00		LT	48					3	1
UD-290	161	57+00	61+00	RT	400		400	400	400		
UD-291	161	61+00		RT	48					3	1
UD-292	161	61+00	65+00	RT	400		400	400	400		
UD-293	161	65+00		RT	48					3	1
SUBTOTAL COLUMN 5						967	8730	7795	10290	59	20
SUBTOTAL COLUMN 4						1584	14347	14347	14347	99	33
SUBTOTAL COLUMN 3						934	8975	5475	12781	53	19
SUBTOTAL COLUMN 2						1493	12488	10413	16072	88	20
SUBTOTAL COLUMN 1						1711	14835	14470	15641	107	34
TOTALS CARRIED TO GENERAL SUMMARY						6689	111875	69131	406	126	

DESIGNED BY: W.D.L. | CHECKED BY: | DATE: 7/22/2013
 DRAWN BY: W.D.L. | REVISIONS: | DATE: 7/22/2013
 CAD FILE NAME: T3476-ALL.DWG

ENTIRE SHEET

ADDENDUM NO. 1	DLF 2/7/14
NO. REVISIONS	BY DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION	
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION UNDERDRAIN SUBSUMMARY	
CT Consultants engineers architects planners	
DESIGNED: J.M.P.	CHECKED: W.D.B. DATE: NOV., 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B. SCALE: NONE
CONTRACT 39-14-01 SHEET 118 OF 280	

PAVEMENT SUBSUMMARY

STATION TO STATION	SIDE	LENGTH	PAVEMENT WIDTH	SHOULDER WIDTH	SURFACE AREA	APPROACH SLAB AREA	AREA BY COMPUTER	202	203	204	252	254	SP302	SP304	SP402		SP404		SP404A	SP407		SPECIAL	SPECIAL			
								PAVEMENT REMOVED, AS PER PLAN	EXCAVATION (T=6-1/4"/- MAINLINE PAV. T=12"/- SHOULDERS T=14"/- APPROACH SLABS)	SUBGRADE COMPACTION	FULL DEPTH PAVEMENT SAWING	PAVEMENT PLANING, ASPHALT CONCRETE, (T=3-1/4"/-)	12" BITUMINOUS AGGREGATE BASE, PG 64-22	8" BITUMINOUS AGGREGATE BASE, PG 64-22 (SHOULDER)	9" 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.)	ASPHALT PAVEMENT REINFORCEMENT	SONIC NAP ALERT PATTERN (SNAP)
OUTSIDE TWO LANES AND OUTSIDE SHOULDER		FT.	FT.	FT.	SQ. FT.	SQ. FT.	SQ. FT.	SQ. YD.	CU. YD.	SQ. YD.	FT.	SQ. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	FT.	GAL.	GAL.	SQ. YD.	MILE			
1023+00.0	1036+20.1	LT	1320.1	25.00	33003			3521	637		1321	184	1223						1321	232	289	367				
1023+00.0	1036+20.1	LT	1320.1	9.00	11881			1467	482					299	349					80	100		0.26			
1036+20.1	1036+37.4	LT	17.3			1034			45	116																
1037+49.7	1037+67.1	LT	17.4			1040			45	116																
1037+67.1	1137+75.2	LT	10008.1	25.00	250203			26689	4827		10009	1391	9267						10009	1752	2190	2781				
1037+67.1	1137+75.2	LT	10008.1	9.00	90073			11121	3649					2266	2642					601	751		1.90			
1137+75.2	1137+94.1	LT	18.9			1129			49	126																
1139+67.5	1139+86.3	LT	18.8			1123			49	125																
1139+86.3	1145+30.6	LT	544.3	25.00	13608			1452	263		545	76	504						545	96	120	152				
1139+86.3	1145+30.6	LT	544.3	9.00	4899			605	199					124	144					33	41		0.11			
1145+30.6	1145+46.1	LT	15.5			926			40	103																
1146+96.9	1147+12.4	LT	15.5			926			40	103																
1147+12.4	1218+94.5	LT	7182.1	25.00	179553			19153	3464		7183	998	6651						7183	1257	1572	1996				
1147+12.4	1218+94.5	LT	7182.1	9.00	64639			7981	2619					1626	1896					431	539		1.37			
1219+39.0	1281+21.0	LT	6182.0	25.00	154550			16486	2982		6182	859	5725						6182	1082	1353	1718				
1219+39.0	1281+21.0	LT	6182.0	9.00	55638			6869	2254					1400	1632					371	464		1.18			
00+00.0	54+52.0	LT	5452.0	25.00	136300			14539	2630		5452	758	5049						5452	955	1193	1515				
00+00.0	54+52.0	LT	5452.0	9.00	49068			6058	1988					1235	1439					328	409		1.04			
55+46.0	65+00.0	LT	954.0	25.00	23850			2544	461		954	133	884						954	167	209	265				
55+46.0	65+00.0	LT	954.0	9.00	8586			1060	348					216	252					58	72		0.19			
1023+00.0	1036+20.1	RT	1320.1	25.00	33003			3521	637		1321	184	1223						1321	232	289	367				
1023+00.0	1036+20.1	RT	1320.1	9.00	11881			1467	482					299	349					80	100		0.26			
1036+20.1	1036+37.4	RT	17.3			1034			45	116																
1037+49.7	1037+67.1	RT	17.4			1040			45	116																
1037+67.1	1137+75.2	RT	10008.1	25.00	250203			26689	4827		10009	1391	9267						10009	1752	2190	2781				
1037+67.1	1137+75.2	RT	10008.1	9.00	90073			11121	3649					2266	2642					601	751		1.90			
1137+75.2	1137+94.1	RT	18.9			1129			49	126																
1139+67.5	1139+86.3	RT	18.8			1123			49	125																
1139+86.3	1145+30.6	RT	544.3	25.00	13608			1452	263		545	76	504						545	96	120	152				
1139+86.3	1145+30.6	RT	544.3	9.00	4899			605	199					124	144					33	41		0.11			
1145+30.6	1145+46.1	RT	15.5			926			40	103																
1146+96.9	1147+12.4	RT	15.5			926			40	103																
1147+12.4	1218+94.5	RT	7182.1	25.00	179553			19153	3464		7183	998	6651						7183	1257	1572	1996				
1147+12.4	1218+94.5	RT	7182.1	9.00	64639			7981	2619					1626	1896					431	539		1.37			
1219+39.0	1281+21.0	RT	6182.0	25.00	154550			16486	2982		6182	859	5725						6182	1082	1353	1718				
1219+39.0	1281+21.0	RT	6182.0	9.00	55638			6869	2254					1400	1632					371	464		1.18			
00+00.0	54+52.0	RT	5452.0	25.00	136300			14539	2630		5452	758	5049						5452	955	1193	1515				
00+00.0	54+52.0	RT	5452.0	9.00	49068			6058	1988					1235	1439					328	409		1.04			
55+46.0	65+00.0	RT	954.0	25.00	23850			2544	461		954	133	884						954	167	209	265				
55+46.0	65+00.0	RT	954.0	9.00	8586			1060	348					216	252					58	72		0.19			
THIRD LANE AND INSIDE SHOULDER AT APPROACH SLABS																										
1035+34.8	1036+20.1	LT		10.75				787												5	7					
1035+34.8	1036+20.1	LT		13.25				1061												7	9					
1037+67.1	1038+35.4	LT		10.75				868												6	7					
1037+67.1	1038+35.4	LT		13.25				979												7	8					
1137+07.6	1137+75.2	LT		10.75				930												6	8					
1137+07.6	1137+75.2	LT		13.25				1002												7	8					
1139+86.3	1140+78.6	LT		10.75				802												5	7					
1139+86.3	1140+78.6	LT		13.25				1116												7	9					
1144+53.9	1145+30.6	LT		10.75				769												5	6					
1144+53.9	1145+30.6	LT		13.25				990												7	8					
1147+12.4	1147+81.6	LT		10.75				807												5	7					
1147+12.4	1147+81.6	LT		13.25				951												6	8					
TOTALS CARRIED TO SHEET 121								239090	54142	1378	63292	10032	58606	14332	16708	29308	460	3118	9006	2675	7722	63292	14959	18696	17588	12.10

DESIGNED BY: W.D.L. CHECKED BY: W.D.L. DATE: 7/22/2013
 DRAWN BY: W.D.L. REVISIONS: DATE: 7/22/2013
 CAD FILE NAME: T3476-ALL.DWG

ADDENDUM NO. 1
 NO. REVISIONS BY DATE
 JMP 2/7/14
 OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION
 OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PAVEMENT SUBSUMMARY
 CT Consultants
 engineers | architects | planners
 2200 Shaker Court, Akron, Ohio 44316
 330.250.0000 www.ctconsultants.com
 DESIGNED: J.M.P. CHECKED: W.D.B. DATE: NOV., 2013
 DRAWN: D.L.F. IN CHARGE: W.D.B. SCALE: NONE
 CONTRACT 39-14-01 SHEET 119 OF 280

PAVEMENT SUBSUMMARY

STATION TO STATION	SIDE	LENGTH	PAVEMENT WIDTH	SHOULDER WIDTH	SURFACE AREA	APPROACH SLAB AREA	AREA BY COMPUTER	202	203	204	252	254	SP302	SP304	SP402	SP404	SP404A	SP407	SPECIAL	SPECIAL						
								PAVEMENT REMOVED, AS PER PLAN	EXCAVATION (T=6-1/4"/- MAINLINE PAVT. T=12"/- SHOULDERS T=14"/- APPROACH SLABS)	SUBGRADE COMPACTION	FULL DEPTH PAVEMENT SAWING	PAVEMENT PLANING, ASPHALT CONCRETE, (T=3-1/4"/-)	12" BITUMINOUS AGGREGATE BASE, PG 64-22	8" BITUMINOUS AGGREGATE BASE, PG 64-22 (SHOULDER)	9" 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.)	ASPHALT PAVEMENT REINFORCEMENT	SONIC NAP ALERT PATTERN (SNAP)
THIRD LANE AND INSIDE SHOULDER AT APPROACH SLABS (CONTINUED)								SQ. YD.	CU. YD.	SQ. YD.	FT.	SQ. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	FT.	GAL.	GAL.	SQ. YD.	MILE				
1035+51.8	1035+20.1	RT		10.75			868					97				5			6	7						
1035+51.8	1035+20.1	RT		13.25			979					109				5			7	8						
1037+67.1	1038+35.4	RT		10.75			787					88				4			5	7						
1037+67.1	1038+35.4	RT		13.25			1061					118				5			7	9						
1136+81.7	1137+75.2	RT		10.75			802					90				4			5	7						
1136+81.7	1137+75.2	RT		13.25			1116					124				5			7	9						
1139+86.3	1140+54.0	RT		10.75			930					104				5			6	8						
1139+86.3	1140+54.0	RT		13.25			1002					112				5			7	8						
1144+61.4	1145+30.6	RT		10.75			807					90				4			5	7						
1144+61.4	1145+30.6	RT		13.25			951					106				4			6	8						
1147+12.4	1147+89.6	RT		10.75			769					86				4			5	6						
1147+12.4	1147+89.6	RT		13.25			990					110				5			7	8						
OUTSIDE SHOULDER ADDITIONS AND REDUCTIONS																										
1024+86.1	1025+21.1	LT	35.0		2.17	76																				
1025+21.1	1025+35.1	LT	14.0		2.17	30																				
1025+35.1	1025+53.3	LT	18.2		0.83	15																				
1035+68.0	1035+84.6	LT	16.6		0.83	14																				
1037+31.6	1037+36.3	LT	4.7		0.83	4																				
1078+30.8	1078+44.8	LT	14.0		2.17	30																				
1078+44.8	1078+70.8	LT	26.0		2.17	56																				
1078+70.8	1078+84.8	LT	14.0		2.17	30																				
1078+84.8	1079+03.0	LT	18.2		0.83	15																				
1089+00.0	1094+00.0	LT	500.0				5625	556	209																	
1146+95.5	1147+04.1	LT	8.6		0.83	7																				
1183+06.7	1183+20.7	LT	14.0		2.17	30																				
1183+20.7	1183+60.7	LT	40.0		2.17	87																				
1183+60.7	1183+74.7	LT	14.0		2.17	30																				
1183+74.6	1183+92.8	LT	18.2		0.83	15																				
1186+95.3	1187+09.3	LT	14.0		2.17	30																				
1187+09.3	1187+35.8	LT	26.5		2.17	57																				
1187+35.8	1187+49.8	LT	14.0		2.17	30																				
1187+49.8	1187+68.0	LT	18.2		0.83	15																				
1213+94.5	1218+94.5	LT	500.0				5625	556	209																	
1280+88.9	1281+21.0	LT	32.1		2.17	70																				
00+00.0	00+02.9	LT	2.9		2.17	6																				
00+02.9	00+16.9	LT	14.0		2.17	30																				
00+16.9	00+35.1	LT	18.2		0.83	15																				
36+99.4	37+13.4	LT	14.0		2.17	30																				
37+13.4	37+44.5	LT	31.1		2.17	67																				
37+44.5	37+58.5	LT	14.0		2.17	30																				
37+58.5	37+76.7	LT	18.2		0.83	15																				
TOTALS CARRIED TO SHEET 121								1112	418	0	0	1234	0	287	346	0	0	103	26	83	24	0	158	195	0	0

DESIGNED BY: W.D.L. | CHECKED BY: W.D.B. | DATE: 7/22/2013
 DRAWN BY: W.D.L. | REVISIONS: | DATE: 7/22/2013
 CAD FILE NAME: T3476-ALL.DWG

ADDENDUM NO. 1	JMP	2/7/14
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: J.M.P.	CHECKED: W.D.B.	DATE: NOV., 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: NONE
CONTRACT 39-14-01 SHEET 120 OF 280		

SUBGRADE STABILIZATION SUBSUMMARY

STATION TO STATION		SIDE	LENGTH FT.	WIDTH FT.	SURFACE AREA SQ. FT.	206 CHEMICALLY STABILIZED SUBGRADE, AS PER PLAN	
FROM	TO					SQ. FT.	SQ. YD.
1023+00.0	1024+86.1	LT	186.1	34.5	6420	714	
1024+86.1	1025+35.1	LT	49.0	36.5	1789	199	
1025+35.1	1025+53.3	LT	18.2	35.33	643	72	
1025+53.3	1035+68.0	LT	1014.7	34.5	35007	3890	
1035+68.0	1035+84.6	LT	16.6	35.33	586	66	
1035+84.6	1036+01.9	LT	17.3	60.08	1039	116	
1037+14.5	1037+31.7	LT	17.2	60.08	1033	115	
1037+31.7	1037+36.3	LT	4.6	35.33	163	19	
1037+36.3	1078+30.8	LT	4094.5	34.5	141260	15696	
1078+30.8	1078+84.8	LT	54.0	36.5	1971	219	
1078+84.8	1079+03.0	LT	18.2	35.33	643	72	
1079+03.0	1138+28.8	LT	5925.8	34.5	204440	22716	
1138+28.8	1138+48.2	LT	19.4	60.08	1166	130	
1140+17.8	1140+36.6	LT	18.8	60.08	1130	126	
1140+36.6	1145+14.8	LT	478.2	34.5	16498	1834	
1145+14.8	1145+30.2	LT	15.4	60.08	925	103	
1146+80.0	1146+95.5	LT	15.5	60.08	931	104	
1146+95.5	1147+04.1	LT	8.6	35.33	304	34	
1147+04.1	1183+06.6	LT	3602.5	34.5	124286	13810	
1183+06.6	1183+74.6	LT	68.0	36.5	2482	276	
1183+74.6	1183+92.8	LT	18.2	35.33	643	72	
1183+92.8	1186+95.3	LT	302.5	34.5	10436	1160	
1186+95.3	1187+49.8	LT	54.5	36.5	1989	222	
1187+49.8	1187+68.0	LT	18.2	35.33	643	72	
1187+68.0	1218+94.5	LT	3126.5	34.5	107863	11985	
1218+94.5	1280+88.9	LT	6149.9	34.5	212172	23575	
1280+88.9	1281+21.0	LT	32.1	36.5	1171	131	
00+00.0	00+16.9	LT	16.9	36.5	617	69	
00+16.9	00+35.1	LT	18.2	35.33	643	72	
00+35.1	36+99.5	LT	3664.4	34.5	126422	14047	
36+99.5	37+58.5	LT	59.0	36.5	2154	240	
37+58.5	37+76.7	LT	18.2	35.33	643	72	
37+76.7	54+52.0	LT	1675.3	34.5	57798	6422	
54+52.0	65+00.0	LT	954.0	34.5	32913	3657	
1023+00.0	1024+87.5	RT	187.5	34.5	6469	719	
1024+87.5	1025+05.7	RT	18.2	35.33	643	72	
1025+05.7	1025+54.7	RT	49.0	36.5	1789	199	
1025+54.7	1032+65.0	RT	710.3	34.5	24505	2723	
1032+65.0	1036+55.8	RT	390.8	35.33	13807	1535	
1036+55.8	1036+72.8	RT	17.0	60.08	1021	114	
1037+85.1	1038+02.3	RT	17.2	60.08	1033	115	
1038+02.3	1040+20.0	RT	217.7	35.33	7691	855	
1040+20.0	1078+31.2	RT	3811.2	34.5	131486	14610	
1078+31.2	1078+49.4	RT	18.2	35.33	643	72	
1078+49.4	1078+98.4	RT	49.0	36.5	1789	199	
1078+98.4	1120+65.0	RT	4166.6	34.5	143748	15972	
1120+65.0	1137+21.2	RT	1656.2	35.33	58514	6502	
1137+21.2	1137+39.8	RT	18.6	60.08	1117	125	
1139+16.1	1139+34.8	RT	18.7	60.08	1123	125	
1139+34.8	1145+46.8	RT	612.0	35.33	21622	2403	
1145+46.8	1145+62.3	RT	15.5	60.08	931	104	
1147+13.4	1147+29.2	RT	15.8	60.08	949	106	
1147+29.2	1153+70.0	RT	640.8	35.33	22639	2516	
1153+70.0	1181+74.6	RT	2804.6	34.5	96759	10751	
1181+74.6	1181+92.8	RT	18.2	35.33	643	72	
1181+92.8	1182+60.8	RT	68.0	36.5	2482	276	
1182+60.8	1187+07.6	RT	446.8	34.5	15415	1713	
1187+07.6	1187+25.8	RT	18.2	35.33	643	72	
1187+25.8	1187+80.3	RT	54.5	36.5	1989	222	
1187+80.3	1218+94.5	RT	3114.1	34.5	107438	11938	
1218+94.5	1280+85.8	RT	6146.8	34.5	212065	23563	
1280+85.8	1281+04.0	RT	18.2	35.33	643	72	
1281+04.0	1281+21.0	RT	17.0	36.5	619	69	
00+00.0	00+32.0	RT	32.0	36.5	1168	130	
00+32.0	37+02.0	RT	3670.0	34.5	126615	14069	
37+02.0	37+20.2	RT	18.2	35.33	643	72	
37+20.2	37+79.2	RT	59.0	36.5	2154	240	
37+79.2	54+52.0	RT	1672.8	34.5	57712	6413	
54+52.0	65+00.0	RT	954.0	34.5	32913	3657	
TOTALS CARRIED TO GENERAL NOTES, SHEET 11						244502	

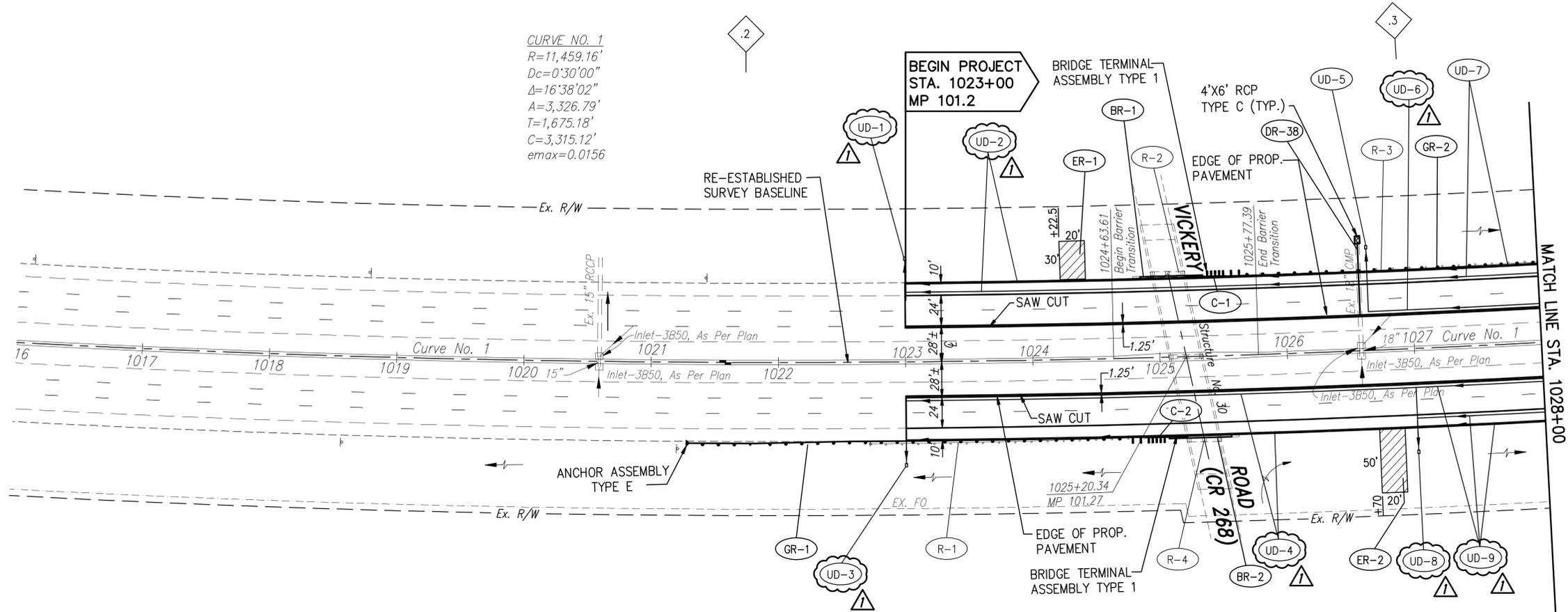
SLOPE PROTECTION SUBSUMMARY

REF NO.	SHEET NO.	STATION	SIDE	LENGTH FT.	WIDTH FT.	AREA SQ. FT.	203				
							EXCAVATION FOR SLOPE EROSION PROTECTION	EMBANKMENT	TOPSOIL	WATER	EROSION CONTROL MAT, TYPE B
							CU. YD.	CU. YD.	CU. YD.	M. GAL.	SQ. YD.
ER-1	134	1024+22.5	LT	30	20	600	22.3	14.9	7.5	0.4	100.0
ER-2	134	1026+70.0	RT	50	20	1000	37.1	24.7	12.4	0.6	166.7
ER-3	135	1028+00.0	LT	40	20	800	29.7	19.8	9.9	0.5	133.4
ER-4	135	1029+52.5	LT	40	20	800	29.7	19.8	9.9	0.5	133.4
ER-5	135	1030+90.0	RT	50	20	1000	37.1	24.7	12.4	0.6	166.7
ER-6	135	1031+50.0	RT	50	20	1000	37.1	24.7	12.4	0.6	166.7
ER-7	135	1032+12.0	RT	50	20	1000	37.1	24.7	12.4	0.6	166.7
ER-8	135	1032+73.0	RT	50	20	1000	37.1	24.7	12.4	0.6	166.7
ER-9	135	1034+75.0	LT	40	100	4000	148.2	98.8	49.4	2.4	488.9
ER-10	135	1035+75.0	RT	50	20	1000	37.1	24.7	12.4	0.6	166.7
ER-11	135	1037+20.0	LT	40	20	800	29.7	19.8	9.9	0.5	133.4
ER-12	135	1038+21.0	RT	30	20	600	22.3	14.9	7.5	0.4	100.0
ER-13	136	1040+18.0	RT	30	20	600	22.3	14.9	7.5	0.4	100.0
ER-14	136	1041+68.0	RT	30	20	600	22.3	14.9	7.5	0.4	100.0
ER-15	138	1071+51.0	LT	30	20	600	22.3	14.9	7.5	0.4	100.0
ER-16	138	1073+00.0	RT	30	20	600	22.3	14.9	7.5	0.4	100.0
ER-17	139	1079+13.0	LT	50	20	1000	37.1	24.7	12.4	0.6	166.7
ER-18	142	1123+70.0	RT	30	20	600	22.3	14.9	7.5	0.4	100.0
ER-19	143	1127+04.0	LT	40	20	800	29.7	19.8	9.9	0.5	133.4
ER-20	144	1143+94.0	LT	50	20	1000	37.1	24.7	12.4	0.6	166.7
ER-21	144	1147+38.0	RT	26	13	338	12.6	8.4	4.2	0.2	66.5
ER-22	145	1150+42.0	LT	40	20	800	29.7	19.8	9.9	0.5	133.4
ER-23	145	1151+56.0	LT	40	20	800	29.7	19.8	9.9	0.5	133.4
ER-24	145	1152+45.7	RT	40	20	800	29.7	19.8	9.9	0.5	133.4
ER-25	147	1175+30	RT	20	20	400	14.9	9.9	5.0	0.2	66.7
ER-26	148	1189+44.0	LT	30	20	600	22.3	14.9	7.5	0.4	100.0
ER-27	152	1238+76.0	RT	30	20	600	22.3	14.9	7.5	0.4	100.0
ER-28	152	1240+93.5	LT	30	20	600	22.3	14.9	7.5	0.4	100.0
ER-29	153	1242+63.7	LT	30	20	600	22.3	14.9	7.5	0.4	100.0
ER-30	155	1276+82.0	RT	50	20	1000	37.1	24.7	12.4	0.6	166.7
ER-31	156	1278+91.0	RT	50	20	1000	37.1	24.7	12.4	0.6	166.7
ER-32	156	1280+42.0	RT	50	20	1000	37.1	24.7	12.4	0.6	166.7
ER-33	158	29+89.0	LT	25	25	625	23.2	15.5	7.8	0.4	97.3
ER-34	161	62+65.0	LT	30	20	600	22.3	14.9	7.5	0.4	100.0
TOTALS CARRIED TO GENERAL SUMMARY							1083	722	363	18	4687

DESIGNED BY: W.D.L. | CHECKED BY: W.D.B. | DATE: 7/22/2013
 DRAWN BY: W.D.L. | REVISIONS: | DATE: 7/22/2013
 CAD FILE NAME: 13476--ALL.DWG

ADDENDUM NO. 1	DLF	2/7/14
NO.	REVISIONS	BY DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION SUBGRADE STABILIZATION & SLOPE PROTECTION SUBSUMMARIES		
 engineers architects planners		
DESIGNED: J.M.P.	CHECKED: W.D.B.	DATE: NOV., 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: NONE
CONTRACT 39-14-01 SHEET 123 OF 280		

CURVE NO. 1
 R=11,459.16'
 Dc=0°30'00"
 Δ=16°38'02"
 A=3,326.79'
 T=1,675.18'
 C=3,315.12'
 e_{max}=0.0156

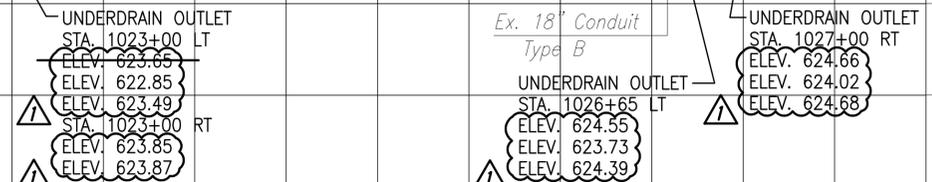


- 101 MILEPOST REFERENCE
- .2 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR TRANSITION TO APPROACH SLAB

PROP. LT & RT PROF. GRADE	625.70	625.89	626.11	626.25	626.39	626.49	626.59	626.71	626.79	626.89	627.00	627.13	627.16	627.27	627.34	627.44	627.49	627.61	627.70	627.82	627.94	628.08	628.20	628.28
630																								
625																								
620																								
615																								
EXIST. LT & RT PROF. GRADE	625.70	625.89	626.11	626.25	626.39	626.49	626.59	626.71	626.79	626.89	627.00	627.13	627.16	627.27	627.34	627.44	627.49	627.61	627.70	627.82	627.94	628.08	628.20	628.28
	1016+00	1017+00	1018+00	1019+00	1020+00	1021+00	1022+00	1023+00	1024+00	1025+00	1026+00	1027+00	1028+00											

Profile Grade Lt. & Rt.

EX. 15" STO.

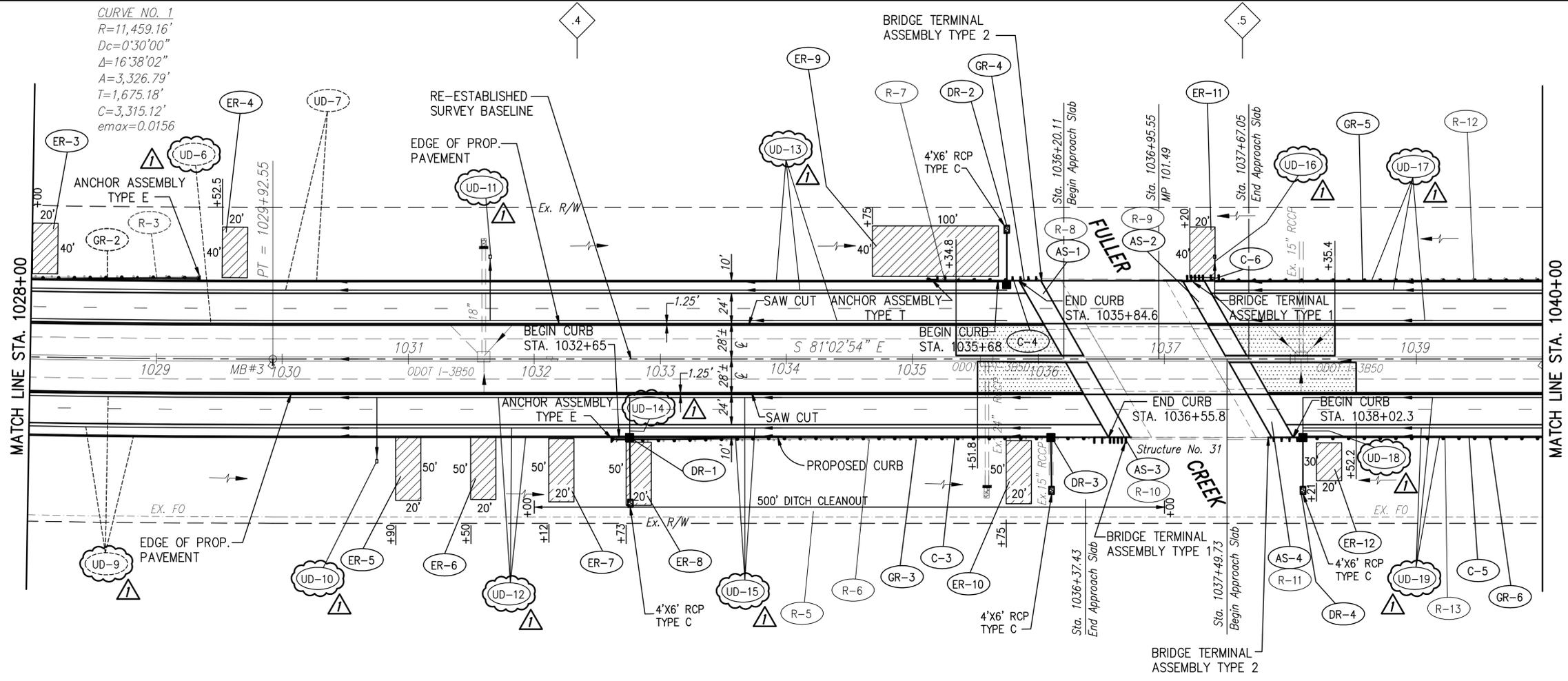


DESIGNED BY: W.D.L.	CHECKED BY:
DATE: 7/23/2013	DATE:
DRAWN BY: W.D.L.	REVISIONS:
DATE: 7/23/2013	DATE:
CAD FILE NAME: 13476-ALL.DWG	

ADDENDUM NO. 1	JDC	2/7/14
NO.	REVISIONS	BY DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 1016+00 TO 1028+00		
CT Consultants engineers architects planners		
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY, 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=50'
CONTRACT 39-14-01 SHEET 134 OF 280		

CURVE NO. 1
 R=11,459.16'
 Dc=0°30'00"
 Δ=16°38'02"
 A=3,326.79'
 T=1,675.18'
 C=3,315.12'
 e_{max}=0.0156

BENCHMARK:
 1" IPF MON. #3
 ELEV. 626.85



- 101 MILEPOST REFERENCE
- .4 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR TRANSITION TO APPROACH SLAB

PROP. LT & RT PROF. GRADE	628.37	628.49	628.58	628.69	628.79	628.89	628.95	629.03	629.15	629.25	629.35	629.42	629.52	629.62	629.74	629.86	629.95	630.13	629.86	630.00	630.18	630.34	630.45	
635																								
630																								
625																								
620																								
EXIST. LT & RT PROF. GRADE	628.37	628.49	628.58	628.69	628.79	628.89	628.95	629.03	629.15	629.25	629.35	629.42	629.52	629.62	629.74	629.86	629.95	630.13	629.86	630.00	630.18	630.34	630.45	

UNDERDRAIN OUTLET
 STA. 1030+75 RT
 ELEV. 625.42
 ELEV. 624.78
 ELEV. 625.44

UNDERDRAIN OUTLET
 STA. 1031+60
 Grate Elev. = 627.75
 Inv. Elev. = 622.74
 6" (N&S) Inv. Elev. = 624.00
 6" (E&W) Inv. Elev. = 623.65

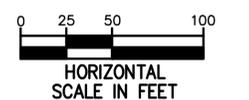
UNDERDRAIN OUTLET @ CB
 STA. 1032+75 RT
 ELEV. 625.28
 ELEV. 624.76
 ELEV. 625.42

UNDERDRAIN OUTLET @ CB
 STA. 1035+75 LT
 ELEV. 625.88
 ELEV. 625.36
 ELEV. 626.02

UNDERDRAIN OUTLET @ CB
 STA. 1036+10 RT
 ELEV. 625.96
 ELEV. 625.44
 ELEV. 626.11

UNDERDRAIN OUTLET @ CB
 STA. 1037+40 LT
 ELEV. 626.14
 ELEV. 625.62
 ELEV. 626.28

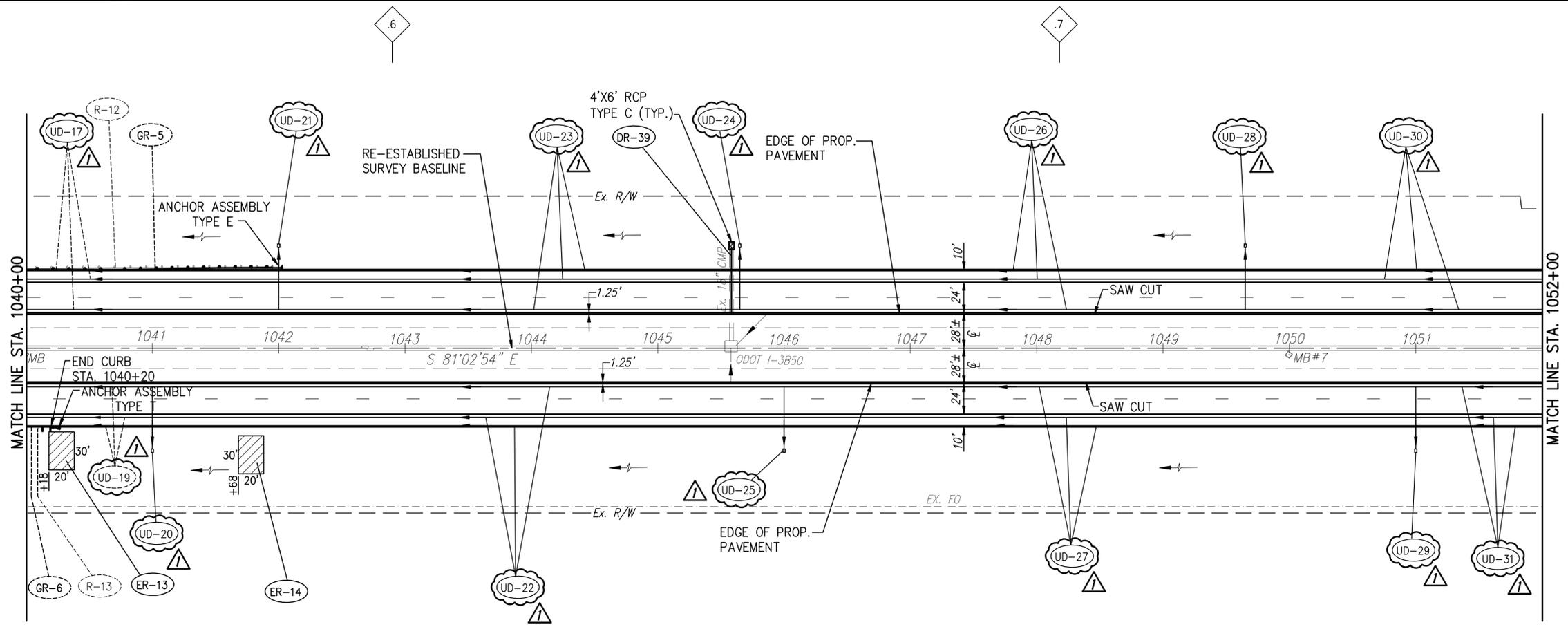
UNDERDRAIN OUTLET @ CB
 STA. 1038+10 RT
 ELEV. 625.97
 ELEV. 625.45
 ELEV. 626.12



DESIGNED BY: W.D.L. | CHECKED BY: JDC
 DATE: 7/23/2013 | DATE: 2/7/14
 DRAWN BY: W.D.L. | REVISIONS: BY: JDC
 DATE: 7/23/2013 | DATE: 2/7/14
 CAD FILE NAME: 13476-ALL.DWG

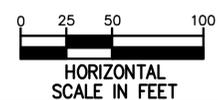
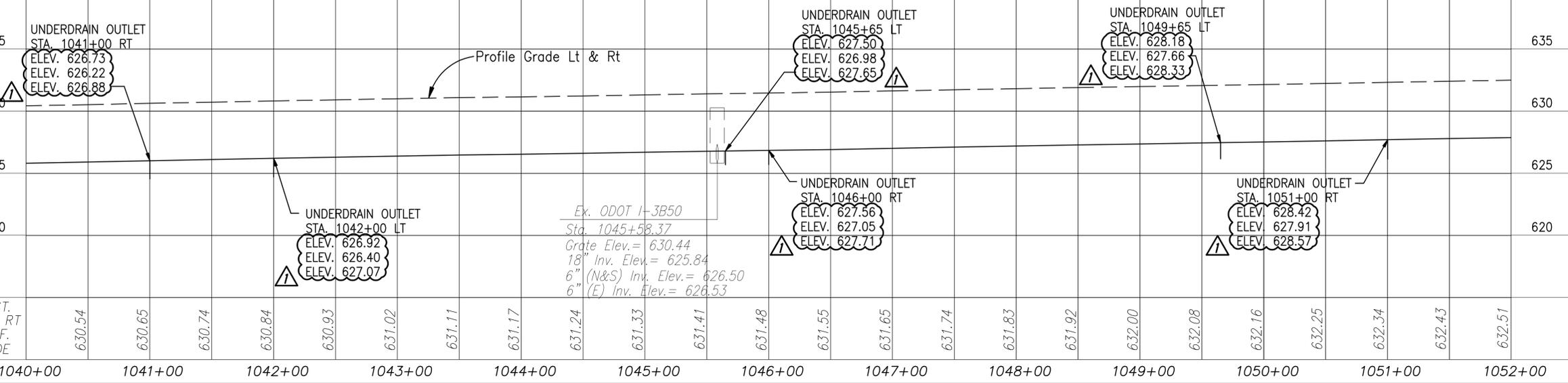
ADDENDUM NO. 1
 NO. REVISIONS BY DATE
 OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION
 OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 1028+00 TO 1040+00
 CT Consultants
 engineers | architects | planners
 2250 Bridge Court, Columbus, Ohio 43260
 614.442.0000 www.ctconsultants.com
 DESIGNED: W.D.B. | CHECKED: W.D.B. | DATE: JULY, 2013
 DRAWN: D.L.F. | IN CHARGE: W.D.B. | SCALE: 1"=50'
 CONTRACT 39-14-01 SHEET 135 OF 280

BENCHMARK:
1" IPF MON. #7
ELEV. 630.12



- 101 MILEPOST REFERENCE
- .6 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA
SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR
TRANSITION TO APPROACH SLAB

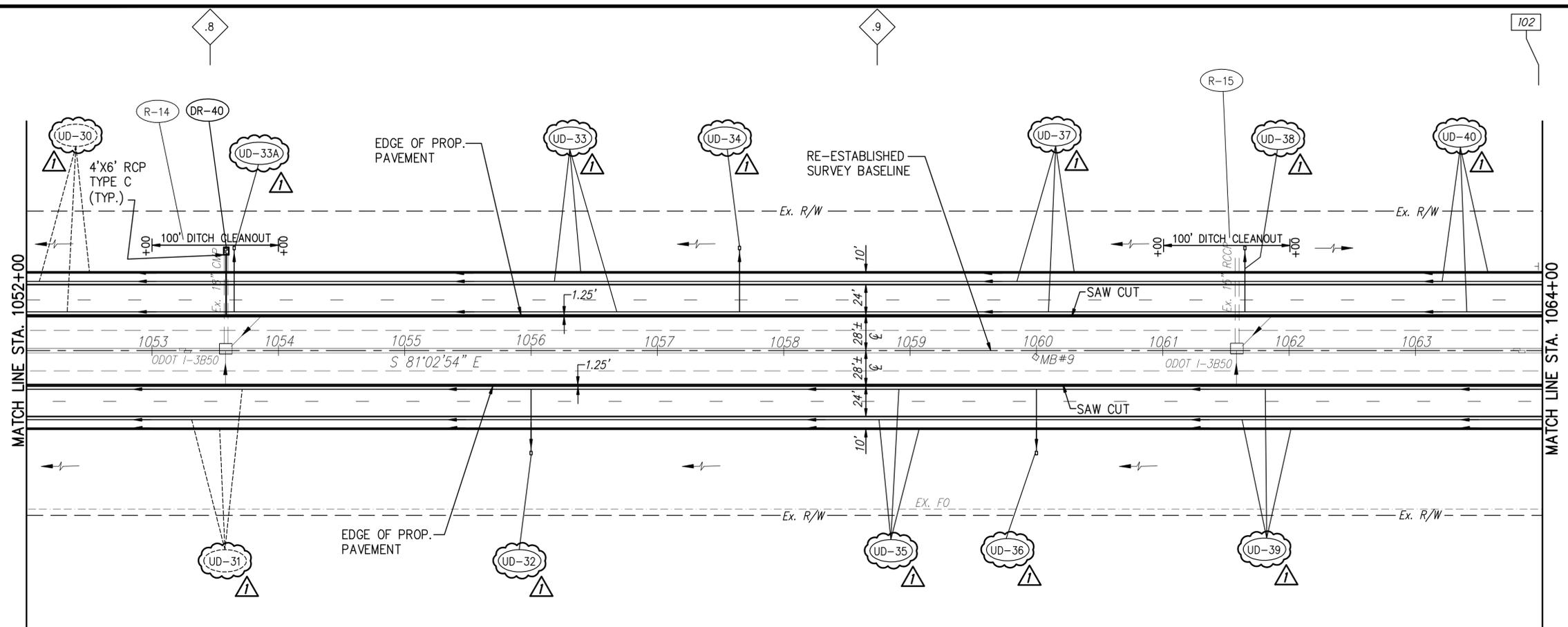
PROP. LT & RT PROF. GRADE	630.54	630.65	630.74	630.84	630.93	631.02	631.11	631.17	631.24	631.33	631.41	631.48	631.55	631.65	631.74	631.83	631.92	632.00	632.08	632.16	632.25	632.34	632.43	632.51	
635																									
630																									
625																									
620																									
EXIST. LT & RT PROF. GRADE	630.54	630.65	630.74	630.84	630.93	631.02	631.11	631.17	631.24	631.33	631.41	631.48	631.55	631.65	631.74	631.83	631.92	632.00	632.08	632.16	632.25	632.34	632.43	632.51	



DESIGNED BY: W.D.L.	CHECKED BY:
DATE: 7/23/2013	DATE:
DRAWN BY: W.D.L.	REVISOR BY:
DATE: 7/23/2013	DATE:
CAD FILE NAME: 13476-ALL.DWG	

ADDENDUM NO. 1		JDC	2/7/14
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION			
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 1040+00 TO 1052+00			
CT Consultants engineers architects planners			
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY 2013	
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=50'	
CONTRACT 39-14-01 SHEET 136 OF 280			

BENCHMARK:
1" IPF MON. #9
ELEV. 632.11



- 101 MILEPOST REFERENCE
- .8 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR TRANSITION TO APPROACH SLAB

PROP. LT & RT PROF. GRADE	632.58	632.69	632.80	632.88	632.96	633.04	633.12	633.19	633.28	633.37	633.45	633.53	633.61	633.70	633.79	633.87	633.95	634.03	634.10	634.18	634.25	634.34	634.44	634.54	
635																									635
630																									630
625																									625
620	Ex. ODOT I-3B50 Sta. 1053+58.67 Grate Elev. = 631.66 18" Inv. Elev. = 627.32 6" (N&S) Inv. Elev. = 627.95																								620
EXIST. LT & RT PROF. GRADE	632.58	632.69	632.80	632.88	632.96	633.04	633.12	633.19	633.28	633.37	633.45	633.53	633.61	633.70	633.79	633.87	633.95	634.03	634.10	634.18	634.25	634.34	634.44	634.54	
	1052+00	1053+00	1054+00	1055+00	1056+00	1057+00	1058+00	1059+00	1060+00	1061+00	1062+00	1063+00	1064+00												

UNDERDRAIN OUTLET
STA. 1053+65 LT
ELEV. 628.90
ELEV. 628.39
ELEV. 629.05

UNDERDRAIN OUTLET
STA. 1056+00 RT
ELEV. 629.27
ELEV. 628.75
ELEV. 629.42

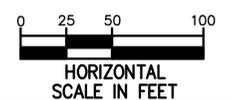
UNDERDRAIN OUTLET
STA. 1057+65 LT
ELEV. 629.55
ELEV. 629.03
ELEV. 629.70

UNDERDRAIN OUTLET
STA. 1060+00 RT
ELEV. 629.87
ELEV. 629.35
ELEV. 630.02

Ex. ODOT I-3B50
Sta. 1061+58.84
Grate Elev. = 633.01
18" Inv. Elev. = 628.62
6" (N&S) Inv. Elev. = 629.25
6" (E) Inv. Elev. = 629.23

UNDERDRAIN OUTLET
STA. 1061+65 LT
ELEV. 630.13
ELEV. 629.61
ELEV. 630.28

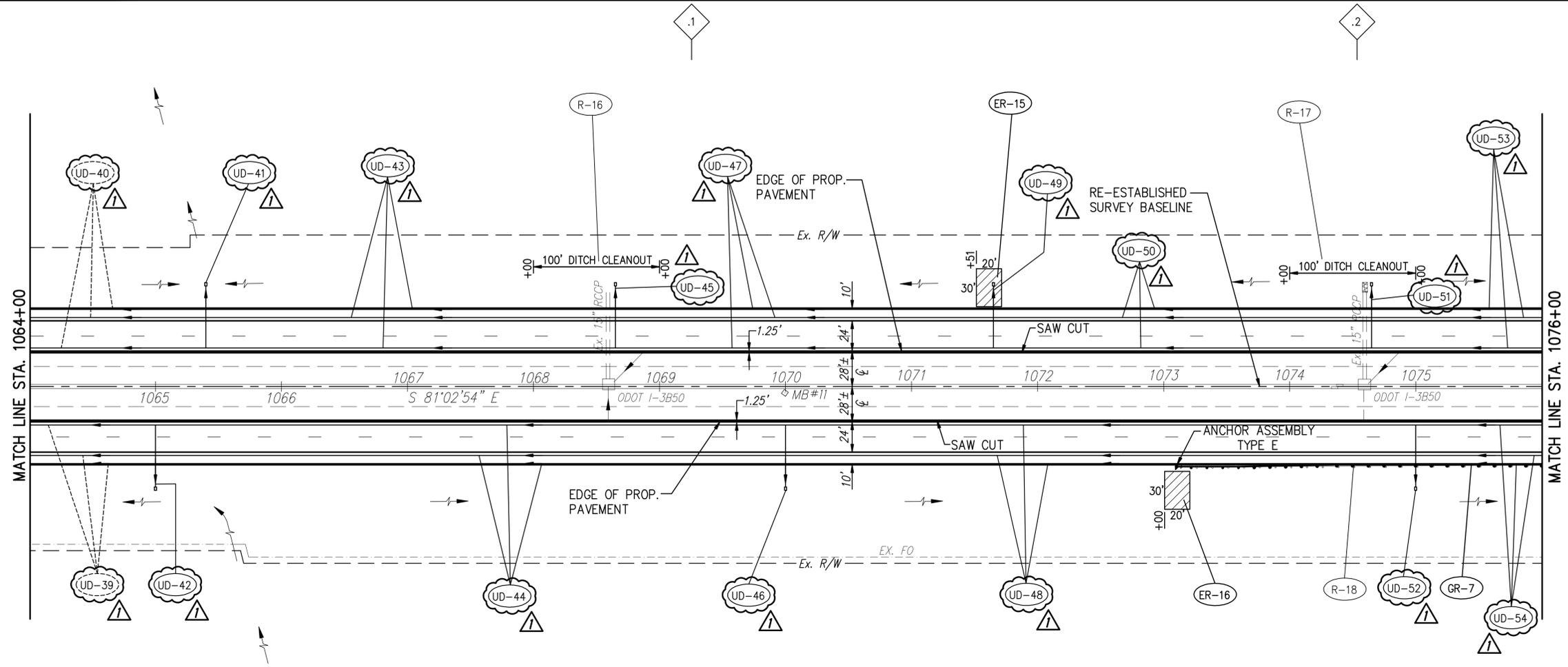
Profile Grade Lt & Rt



DESIGNED BY: W.D.L. | CHECKED BY: JDC
DATE: 7/23/2013 | DATE: 2/7/14
DRAWN BY: W.D.L. | REVISIONS: BY: JDC
DATE: 7/23/2013 | DATE: 2/7/14
CAD FILE NAME: 13476-ALL.DWG

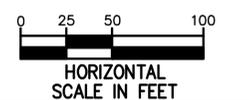
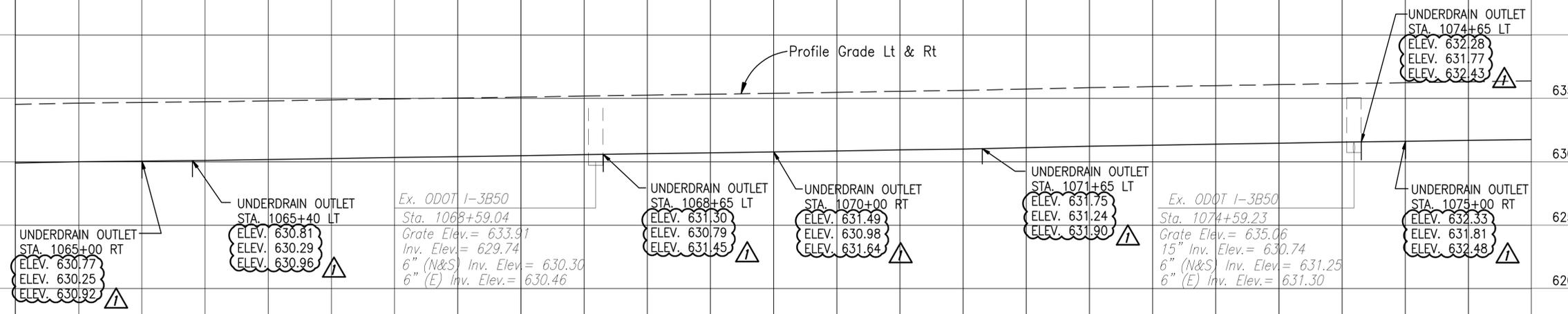
ADDENDUM NO. 1	JDC	2/7/14
NO. REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 1052+00 TO 1064+00		
CT Consultants engineers architects planners		
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=50'
CONTRACT 39-14-01 SHEET 137 OF 280		

BENCHMARK:
1" IPF MON. #11
ELEV. 633.22



- 102 MILEPOST REFERENCE
- .0 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA
SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR
TRANSITION TO APPROACH SLAB

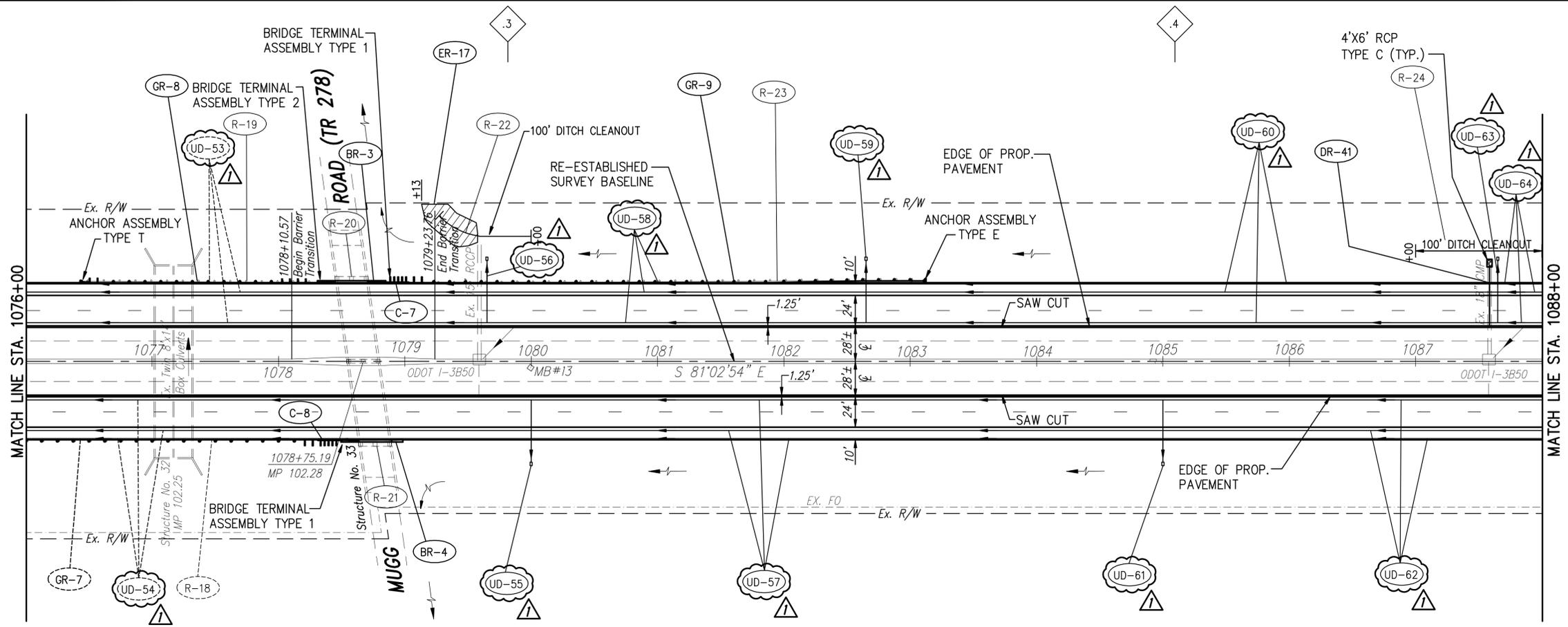
PROP. LT & RT PROF. GRADE	634.64	634.69	634.74	634.81	634.89	634.97	635.04	635.11	635.20	635.27	635.34	635.41	635.49	635.57	635.64	635.75	635.86	635.94	636.02	636.10	636.18	636.25	636.32	636.39	
635																									
630																									
625																									
620																									
EXIST. LT & RT PROF. GRADE	634.64	634.69	634.74	634.81	634.89	634.97	635.04	635.11	635.20	635.27	635.34	635.41	635.49	635.57	635.64	635.75	635.86	635.94	636.02	636.10	636.18	636.25	636.32	636.39	



DESIGNED BY: W.D.L. | CHECKED BY: JDC
DATE: 7/23/2013 | DATE: 2/7/14
DRAWN BY: W.D.L. | REVISED BY: JDC
DATE: 7/23/2013 | DATE: 2/7/14
CAD FILE NAME: 13476-ALL.DWG

ADDENDUM NO. 1	JDC	2/7/14
NO. REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 1064+00 TO 1076+00		
CT Consultants engineers architects planners		
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=50'
CONTRACT 39-14-01 SHEET 138 OF 280		

BENCHMARK:
1" IPF MON. #13
ELEV. 634.91

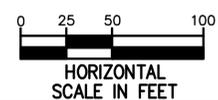


- 102 MILEPOST REFERENCE
- 3 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR TRANSITION TO APPROACH SLAB

PROP. LT & RT PROF. GRADE	636.47	636.55	636.64	636.73	636.84	636.91	636.98	637.07	637.15	637.25	637.34	637.43	637.49	637.59	637.70	637.80	637.88	637.96	638.03	638.11	638.19	638.26	638.34	638.42	
Profile Grade Lt & Rt																									
UNDERDRAIN OUTLET STA. 1079+65 LT ELEV. 633.08 ELEV. 632.57 ELEV. 633.23																									
UNDERDRAIN OUTLET STA. 1080+00 RT ELEV. 633.15 ELEV. 632.64 ELEV. 633.30																									
UNDERDRAIN OUTLET STA. 1082+65 LT ELEV. 633.60 ELEV. 633.08 ELEV. 633.75																									
UNDERDRAIN OUTLET STA. 1085+00 RT ELEV. 634.04 ELEV. 633.53 ELEV. 634.19																									
UNDERDRAIN OUTLET STA. 1087+65 LT ELEV. 634.44 ELEV. 633.93 ELEV. 634.59																									
EXIST. LT & RT PROF. GRADE	636.47	636.55	636.64	636.73	636.84	636.91	636.98	637.07	637.15	637.25	637.34	637.43	637.49	637.59	637.70	637.80	637.88	637.96	638.03	638.11	638.19	638.26	638.34	638.42	

Structure No. 32
Ex. ODOT I-3B50
Sta. 1079+59
Grate Elev. = 635.84
Inv. Elev. = 627.31
6" (N & S) Inv. Elev. = 631.00
6" (E) Inv. Elev. = 631.42

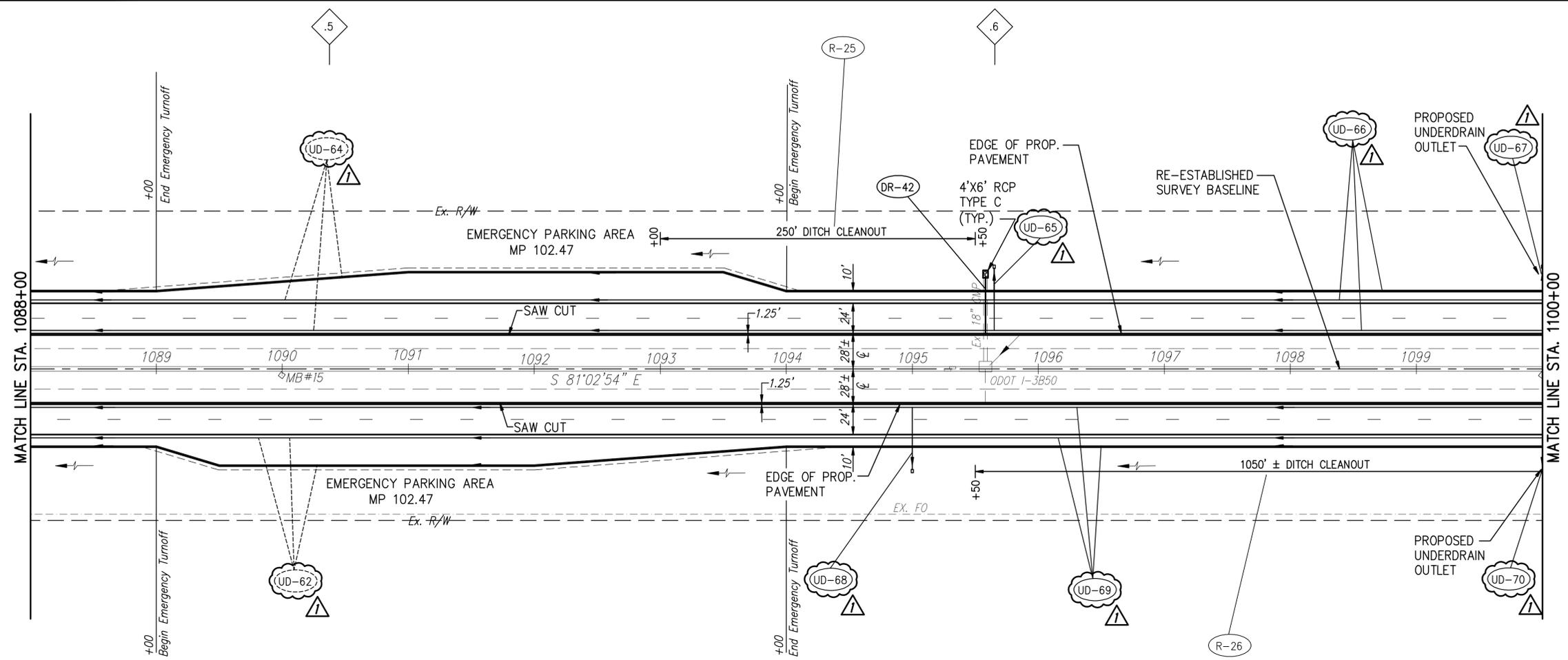
Ex. ODOT I-3B50
Sta. 1087+58.48
Grate Elev. = 637.26
18" Inv. Elev. = 632.98
6" (N&S) Inv. Elev. = 633.50
6" (E) Inv. Elev. = 633.46



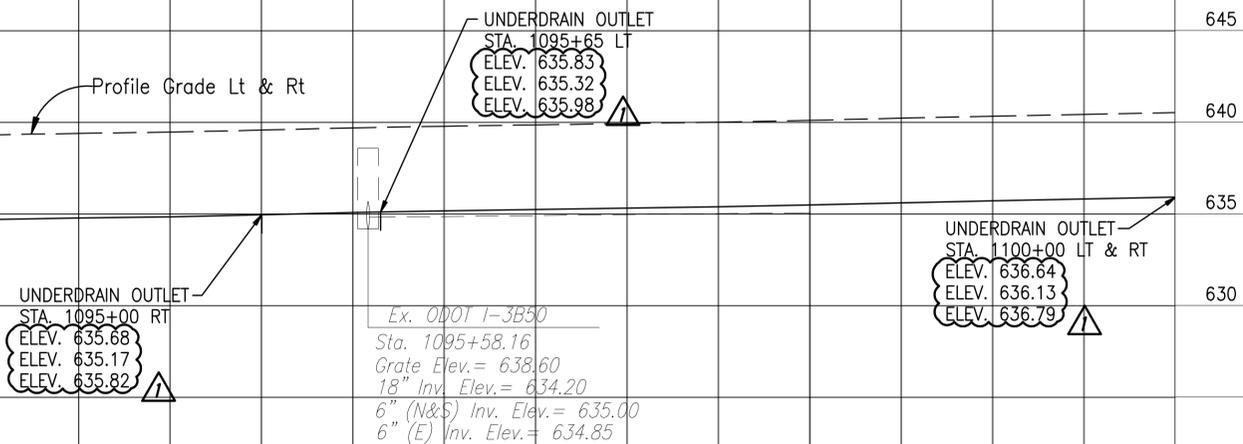
DESIGNED BY: W.D.L. | CHECKED BY: JDC
DATE: 7/23/2013 | DATE: 2/7/14
DRAWN BY: W.D.L. | REVISED BY: JDC
DATE: 7/23/2013 | DATE: 2/7/14
CAD FILE NAME: 13476-ALL.DWG

ADDENDUM NO. 1	JDC	2/7/14
NO. REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 1076+00 TO 1088+00		
CT Consultants engineers architects planners		
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=50'
CONTRACT 39-14-01 SHEET 139 OF 280		

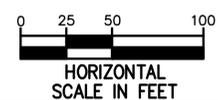
BENCHMARK:
1" IPF MON. #15
ELEV. 636.55



PROP. LT & RT PROF. GRADE	638.50	638.58	638.67	638.74	638.80	638.89	638.99	639.09	639.18	639.25	639.33	639.42	639.49	639.60	639.72	639.81	639.88	639.96	640.03	640.13	640.25	640.36	640.46	640.56	
645																									
640																									
635																									
630																									
EXIST. LT & RT PROF. GRADE	638.50	638.58	638.67	638.74	638.80	638.89	638.99	639.09	639.18	639.25	639.33	639.42	639.49	639.60	639.72	639.81	639.88	639.96	640.03	640.13	640.25	640.36	640.46	640.56	
Station	1088+00	1089+00	1090+00	1091+00	1092+00	1093+00	1094+00	1095+00	1096+00	1097+00	1098+00	1099+00	1100+00												



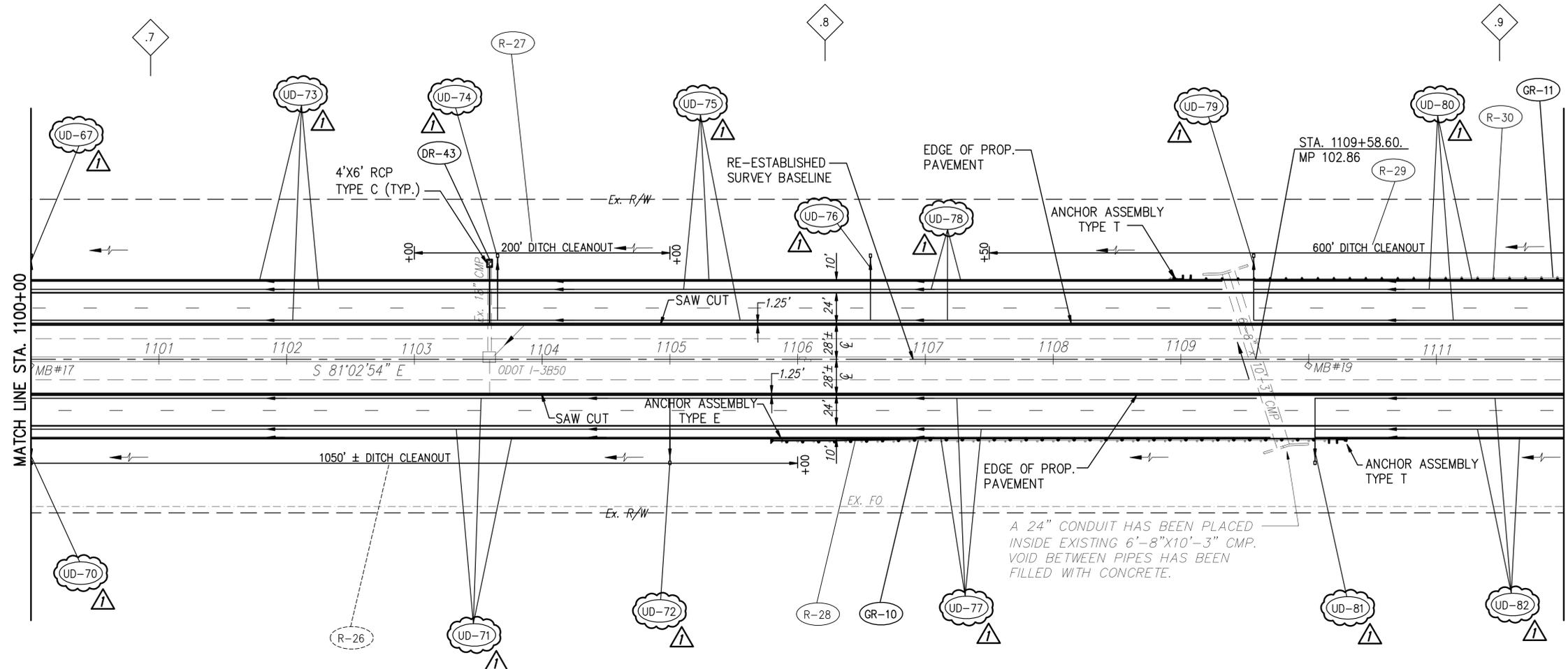
- 102 MILEPOST REFERENCE
- .5 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR TRANSITION TO APPROACH SLAB



DESIGNED BY: W.D.L. | CHECKED BY: JDC
DATE: 7/23/2013 | DATE: 2/7/14
DRAWN BY: W.D.L. | REVISIONS: BY DATE
DATE: 7/23/2013 | DATE:
CAD FILE NAME: 13476-ALL.DWG

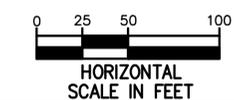
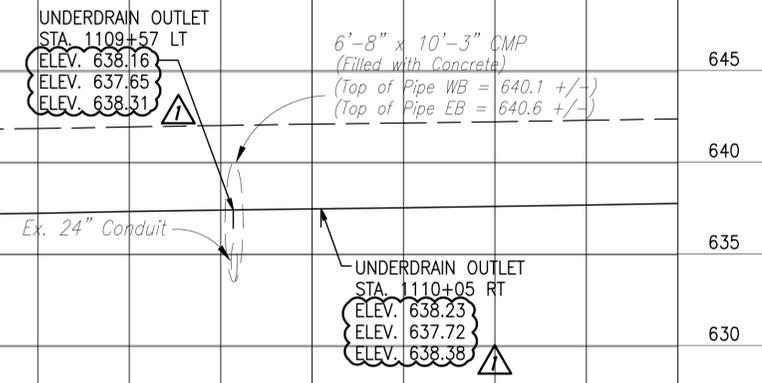
ADDENDUM NO. 1	JDC	2/7/14
NO. REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 1088+00 TO 1100+00		
CT Consultants engineers architects planners		
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=50'
CONTRACT 39-14-01 SHEET 140 OF 280		

BENCHMARKS:
 1" IPF MON. #17
 ELEV. 638.37
 1" IPF MON. #19
 ELEV. 640.07



- 102 MILEPOST REFERENCE
- .7 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR TRANSITION TO APPROACH SLAB

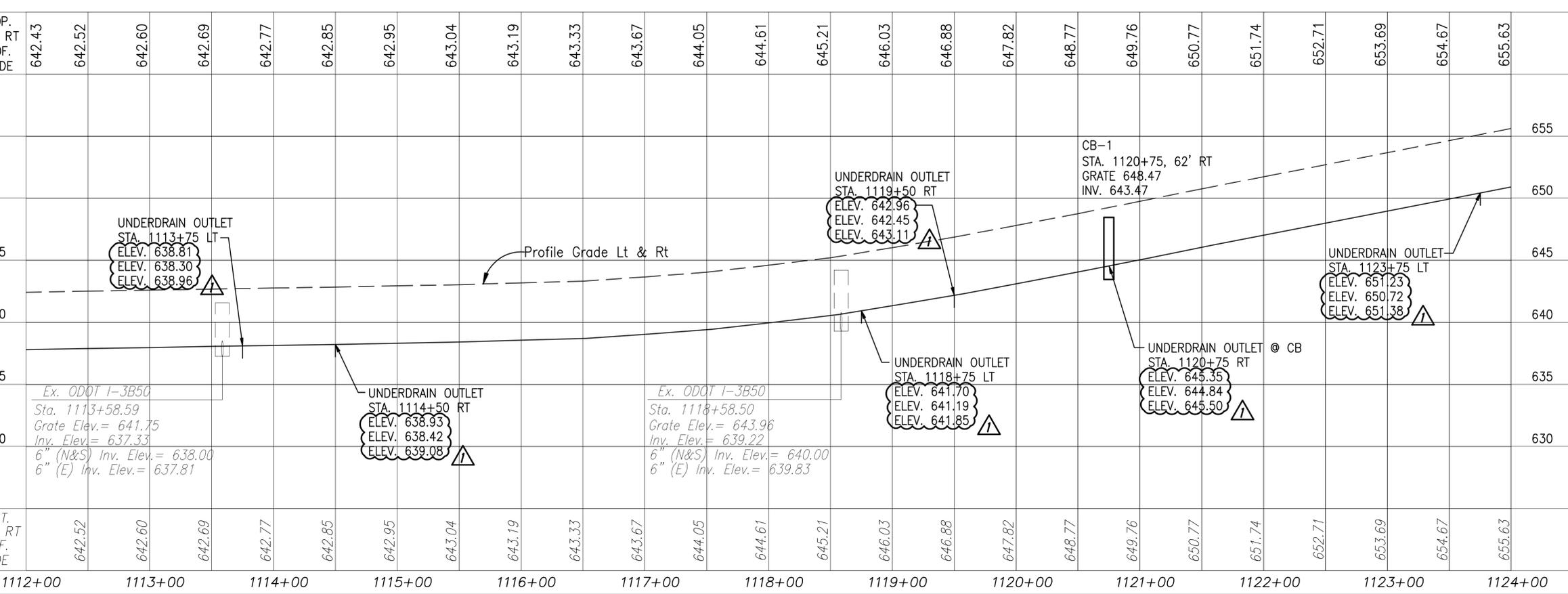
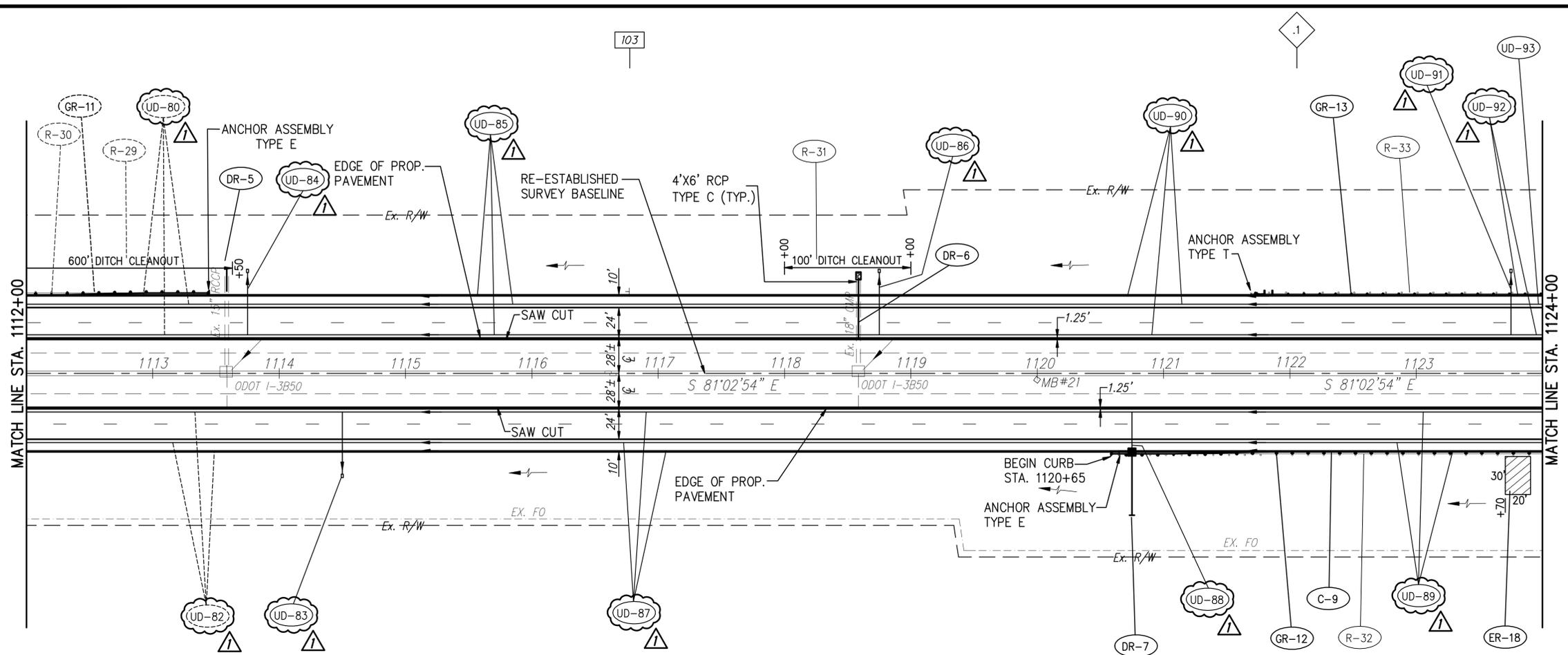
PROP. LT & RT PROF. GRADE	640.67	640.75	640.82	640.87	640.89	640.96	641.04	641.11	641.17	641.27	641.39	641.48	641.57	641.67	641.75	641.84	641.90	641.99	642.07	642.14	642.20	642.27	642.35	642.43	
645																									
640																									
635																									
630																									
EXIST. LT & RT PROF. GRADE	640.67	640.75	640.82	640.87	640.89	640.96	641.04	641.11	641.17	641.27	641.39	641.48	641.57	641.67	641.75	641.84	641.90	641.99	642.07	642.14	642.20	642.27	642.35	642.43	



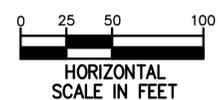
DESIGNED BY: W.D.L. CHECKED BY: JDC
 DATE: 7/23/2013 DATE: 2/7/14
 DRAWN BY: W.D.L. REVISIONS BY: JDC
 DATE: 7/23/2013 DATE: 2/7/14
 CAD FILE NAME: 13476-ALL.DWG

ADDENDUM NO. 1	JDC	2/7/14
NO.	REVISIONS	BY DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 1100+00 TO 1112+00		
CT Consultants engineers architects planners		
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=50'
CONTRACT 39-14-01 SHEET 141 OF 280		

BENCHMARK:
1" IPF MON. #21
ELEV. 641.53



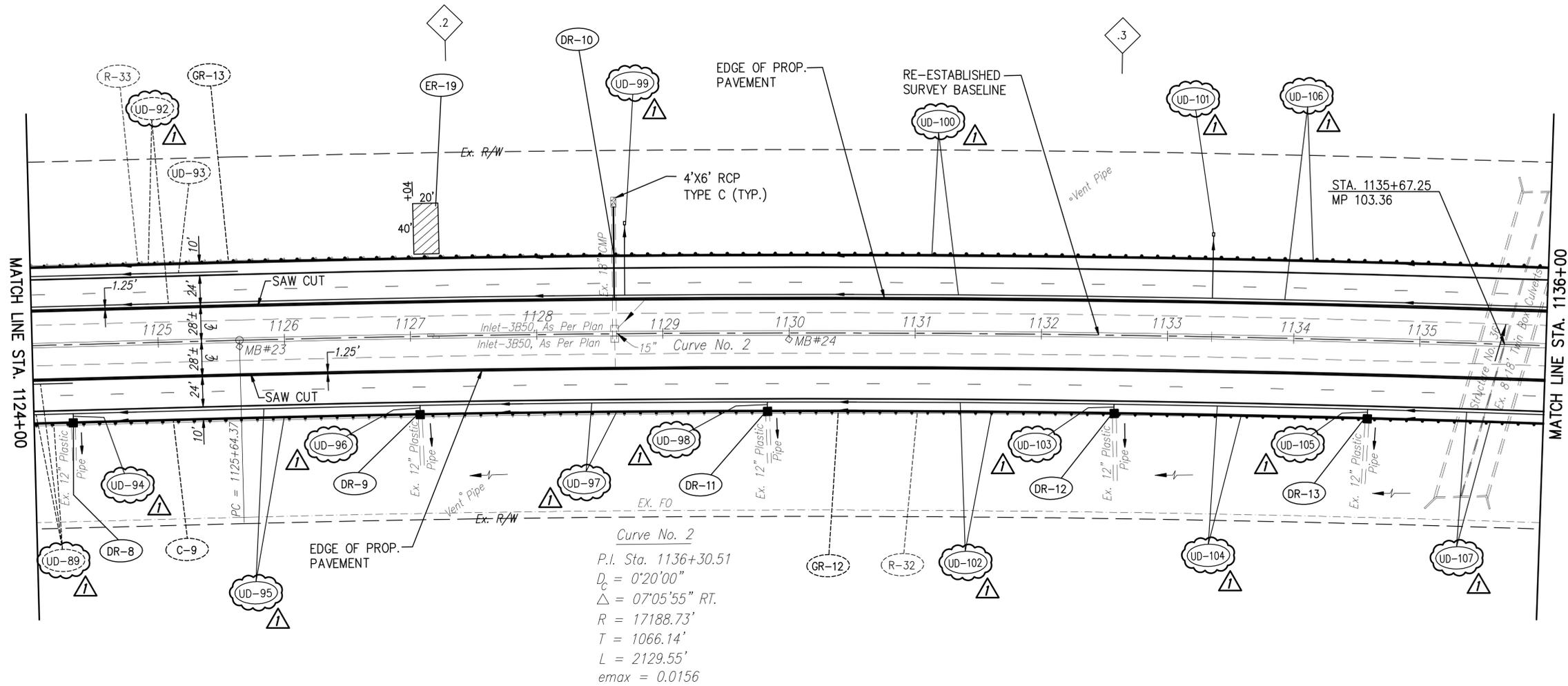
- 103 MILEPOST REFERENCE
- .0 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA
SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR
TRANSITION TO APPROACH SLAB



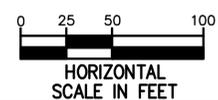
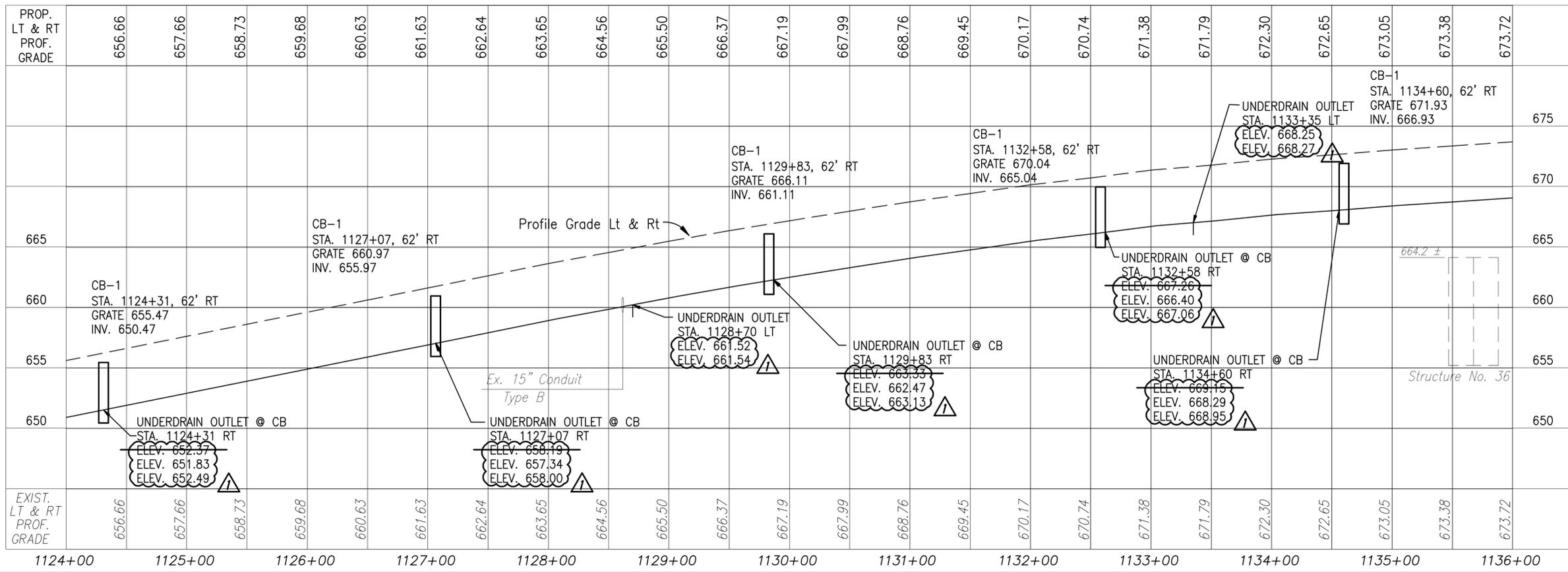
DESIGNED BY: W.D.L. | CHECKED BY: JDC
DATE: 7/23/2013 | DATE: 2/7/14
DRAWN BY: W.D.L. | REVISED BY: JDC
DATE: 7/23/2013 | DATE:
CAD FILE NAME: 13476-ALL.DWG

ADDENDUM NO. 1	JDC	2/7/14
NO. REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 1112+00 TO 1124+00		
CT Consultants engineers architects planners		
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=50'
CONTRACT 39-14-01 SHEET 142 OF 280		

BENCHMARKS:
 1" IPF MON. #23
 ELEV. 657.62
 1" IPF MON. #24
 ELEV. 666.10



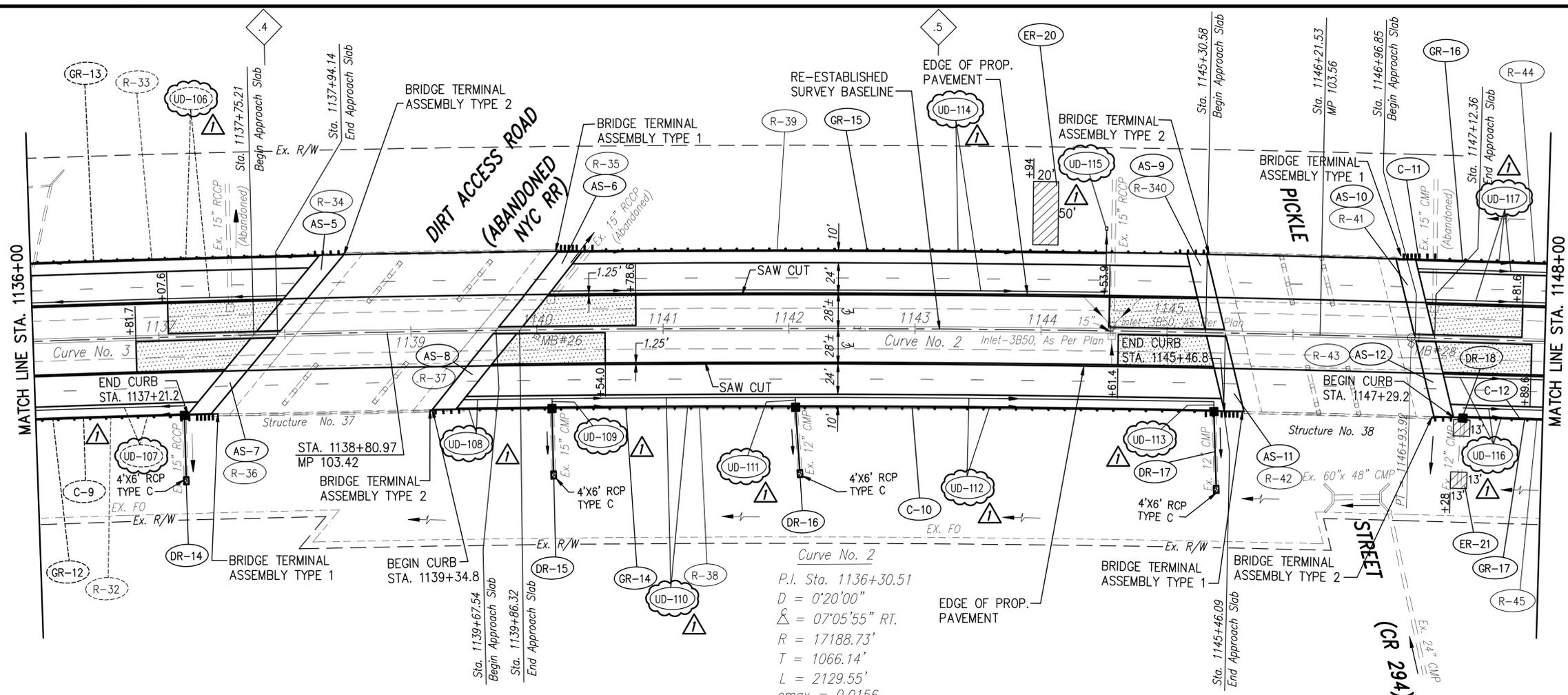
- 103 MILEPOST REFERENCE
- .2 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR TRANSITION TO APPROACH SLAB



DESIGNED BY: W.D.L. CHECKED BY: JDC
 DATE: 7/23/2013 DATE: 2/7/14
 DRAWN BY: W.D.L. REVISED BY: BY
 DATE: 7/23/2013 DATE: DATE
 CAD FILE NAME: 13476-ALL.DWG

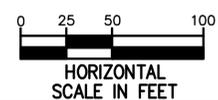
ADDENDUM NO. 1	JDC	2/7/14
NO. REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 1124+00 TO 1136+00		
CT Consultants engineers architects planners		
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=50'
CONTRACT 39-14-01 SHEET 14.3 OF 280		

BENCHMARKS:
 1" IPF MON. #26
 ELEV. 673.04
 1" IPF MON. #28
 ELEV. 667.99



- 103 MILEPOST REFERENCE
- .4 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR TRANSITION TO APPROACH SLAB

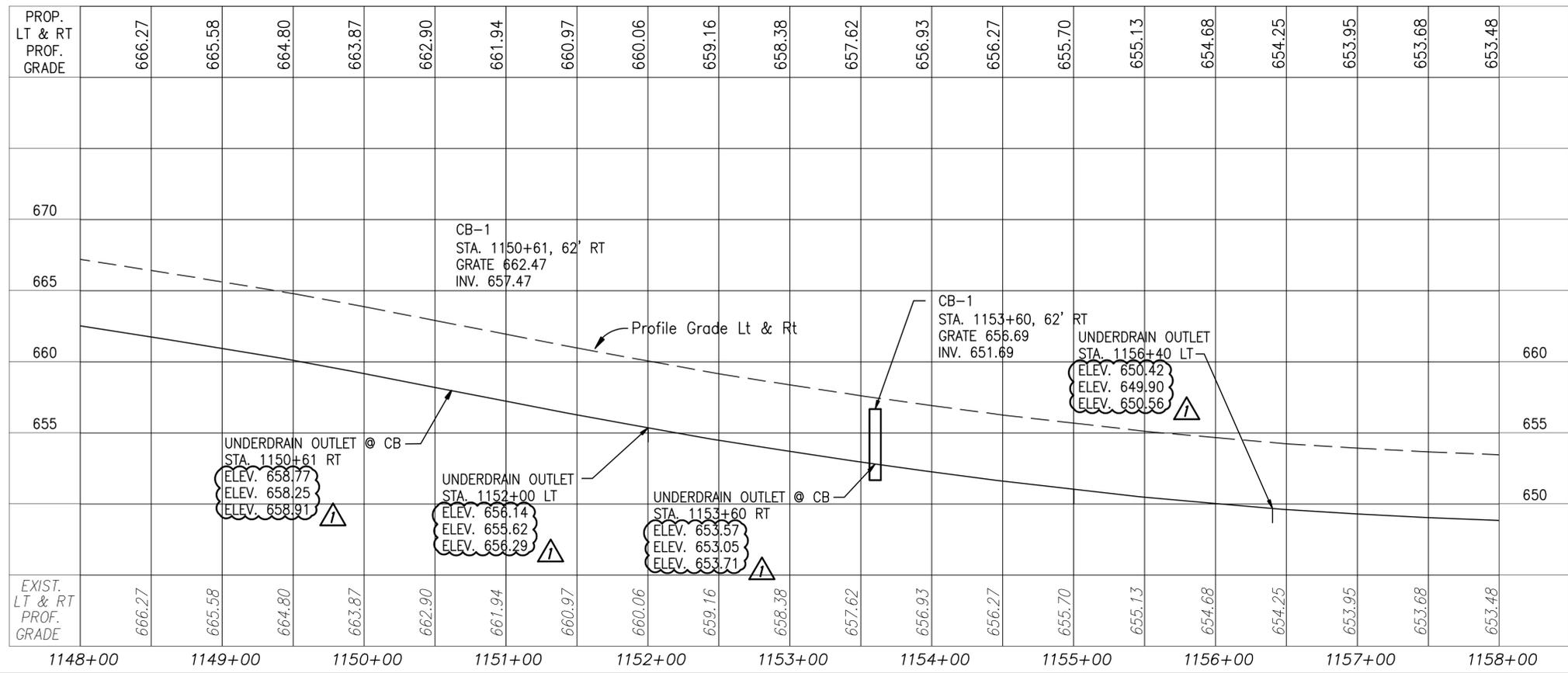
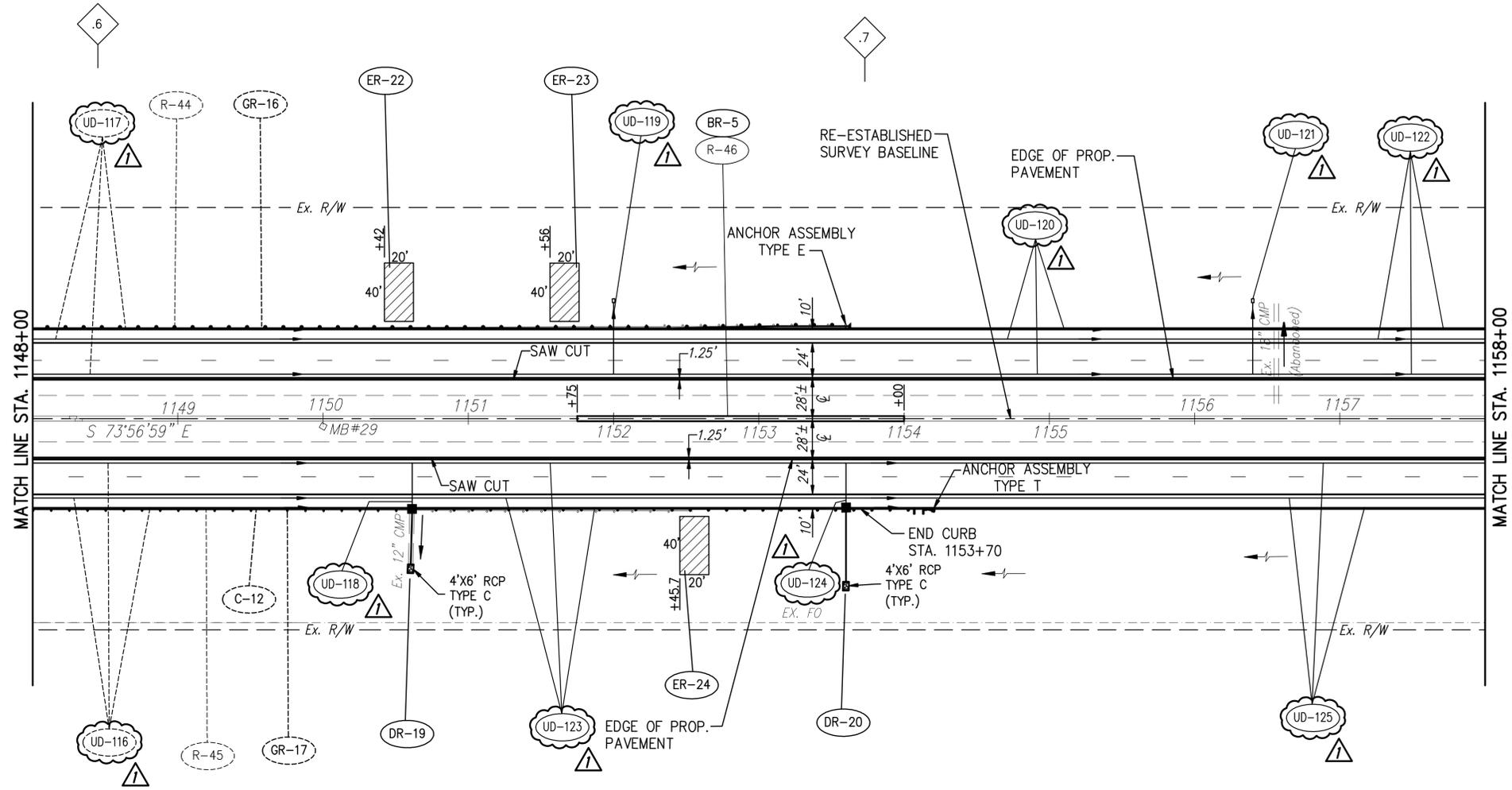
PROP. LT & RT PROF. GRADE	674.11	674.39	+95.51 674.66	+68.93 674.73	674.62	674.45	674.27	674.18	674.05	673.71	673.33	672.90	672.34	671.75	671.40	670.79	668.84	667.98	667.14
EXIST. LT & RT PROF. GRADE	674.11	674.39	674.66	674.73	674.62	674.45	674.27	674.18	674.05	673.71	673.33	672.90	672.34	671.75	671.40	670.79	668.84	667.98	667.14
Structure No. 37				CB-1 STA. 1140+11, 62' RT GRATE 673.78 INV. 668.79					CB-1 STA. 1142+05, 62' RT GRATE 673.22 INV. 668.22					CB-1 STA. 1145+38, 62' RT GRATE 670.72 INV. 665.72					
Structure No. 38																			
UNDERDRAIN OUTLET @ CB				STA. 1140+11 RT ELEV. 671.00 ELEV. 670.15 ELEV. 670.81					STA. 1142+05 RT ELEV. 670.44 ELEV. 669.58 ELEV. 670.24					STA. 1144+50 LT ELEV. 668.33 ELEV. 668.35		STA. 1145+38 RT ELEV. 667.36 ELEV. 666.50 ELEV. 667.16			



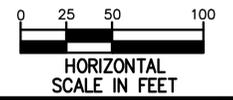
DESIGNED BY: W.D.L. | CHECKED BY: JDC
 DATE: 7/23/2013 | DATE: 2/7/14
 DRAWN BY: W.D.L. | REVISIONS: BY DATE
 DATE: 7/23/2013
 CAD FILE NAME: 13476-ALL.DWG

ADDENDUM NO. 1	JDC	2/7/14
NO.	REVISIONS	BY DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 1136+00 TO 1148+00		
CT Consultants engineers architects planners		
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=50'
CONTRACT 39-14-01 SHEET 144 OF 280		

BENCHMARK:
1" IPF MON. #29
ELEV. 661.73



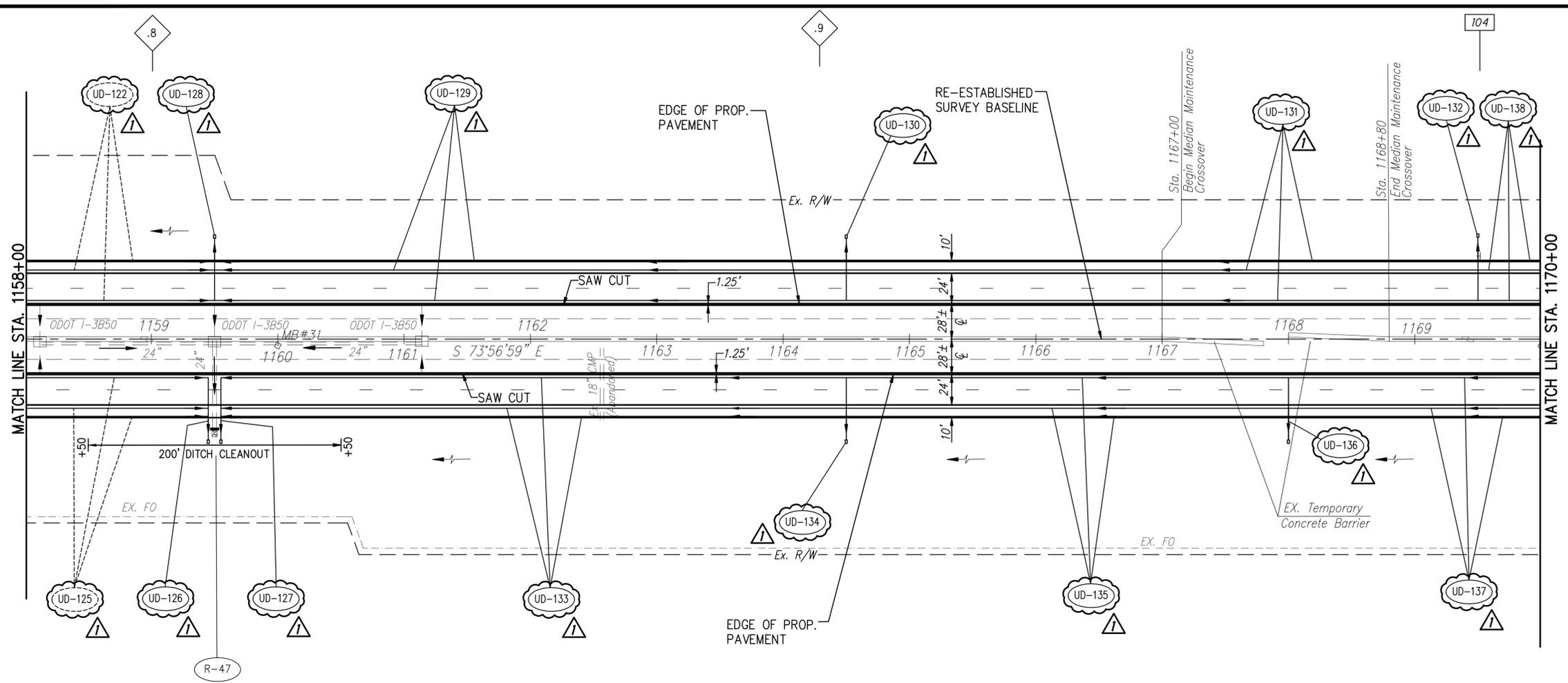
- 103 MILEPOST REFERENCE
- .6 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA
SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR
TRANSITION TO APPROACH SLAB



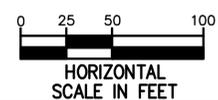
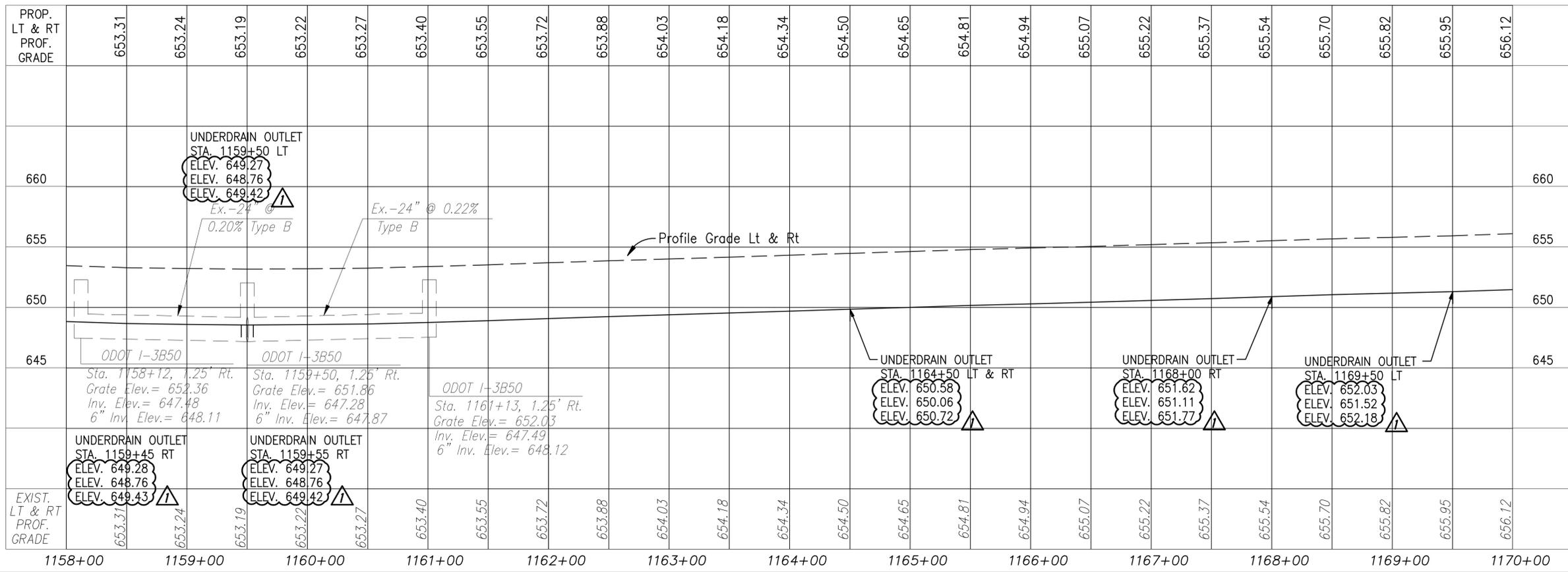
DESIGNED BY: W.D.L. | CHECKED BY: W.D.B.
DATE: 7/23/2013 | DATE: 7/23/2013
DRAWN BY: W.D.L. | REVISED BY: W.D.B.
DATE: 7/23/2013 | DATE: 7/23/2013
CAD FILE NAME: 13476-ALL.DWG

ADDENDUM NO. 1	JDC 2/7/14
NO. REVISIONS	BY DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION	
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 1148+00 TO 1158+00	
CT Consultants <small>engineers architects planners</small>	
DESIGNED: W.D.B.	CHECKED: W.D.B. DATE: JULY 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B. SCALE: 1"=50'
CONTRACT 39-14-01 SHEET 145 OF 280	

BENCHMARK:
1" IPF MON. #31
ELEV. 651.04



- 103 MILEPOST REFERENCE
- .8 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA
SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR
TRANSITION TO APPROACH SLAB

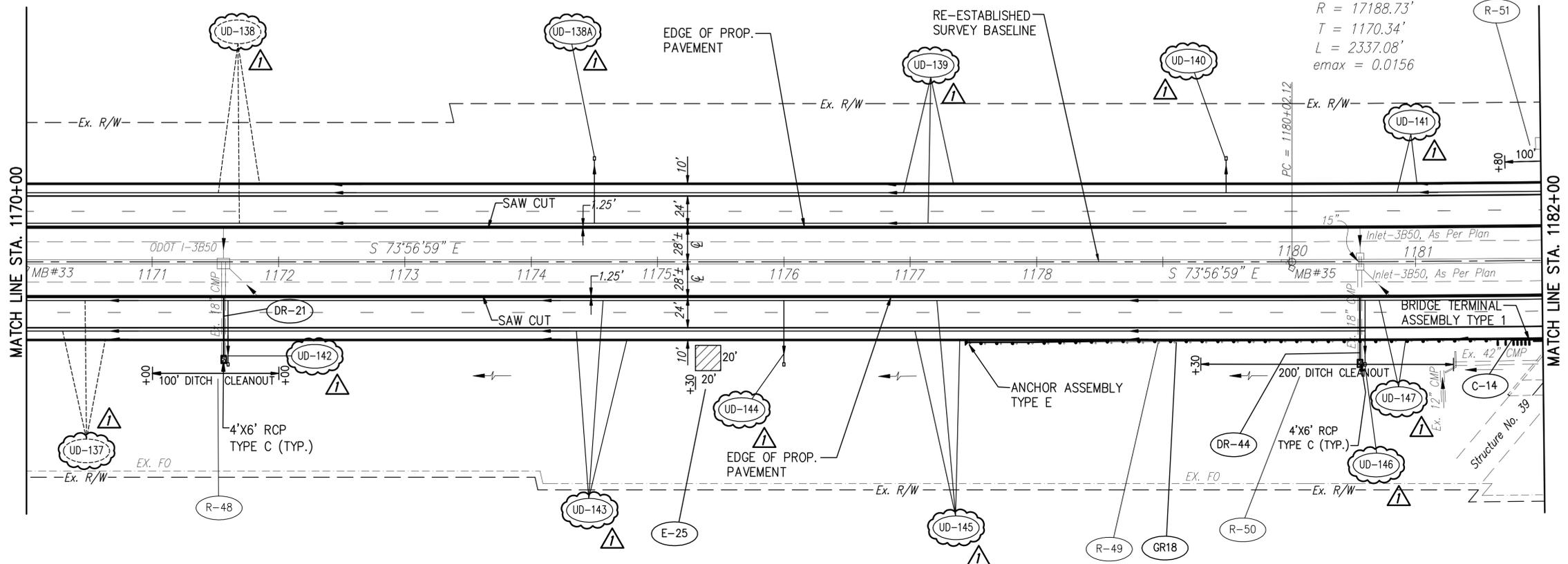


DESIGNED BY: W.D.L. CHECKED BY: JDC
DATE: 7/23/2013 DATE: 2/7/14
DRAWN BY: W.D.L. REVISIONS BY: JDC
DATE: 7/23/2013 DATE: 2/7/14
CAD FILE NAME: 13476-ALL.DWG

ADDENDUM NO. 1	JDC	2/7/14
NO. REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 1158+00 TO 1170+00		
CT Consultants engineers architects planners		
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=50'
CONTRACT 39-14-01 SHEET 146 OF 280		

BENCHMARKS:
 1" IPF MON. #33
 ELEV. 654.07
 1" IPF MON. #35
 ELEV. 657.05

Curve No. 3
 P.I. Sta. 1191+72.46
 D = 0'20'00"
 $\Delta = 07'47'25"$, Lt.
 R = 17188.73'
 T = 1170.34'
 L = 2337.08'
 $e_{max} = 0.0156$



- 104 MILEPOST REFERENCE
- .1 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR TRANSITION TO APPROACH SLAB

PROP. LT & RT PROF. GRADE	656.29	656.40	656.52	656.66	656.78	656.94	657.12	657.27	657.43	657.57	657.70	657.84	657.97	658.11	658.25	658.40	658.58	658.75	658.99	659.06	659.17	659.41	659.51	659.70
Profile Grade Lt & Rt	Profile Grade Lt & Rt																							
660	660																							
655	655																							
650	650																							
645	645																							
EXIST. LT & RT PROF. GRADE	656.29	656.40	656.52	656.66	656.78	656.94	657.12	657.27	657.43	657.57	657.70	657.84	657.97	658.11	658.25	658.40	658.58	658.75	658.99	659.06	659.17	659.41	659.51	659.70

DESIGNED BY: W.D.L. | CHECKED BY: W.D.L. | DATE: 7/23/2013
 DRAWN BY: W.D.L. | REVISED BY: W.D.L. | DATE: 7/23/2013
 CAD FILE NAME: 13476-ALL.DWG

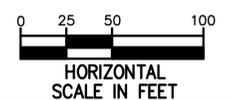
UNDERDRAIN OUTLET
 STA. 1171+60 RT
 ELEV. 652.63
 ELEV. 652.99
 ELEV. 652.77

UNDERDRAIN OUTLET
 STA. 1174+50 LT
 ELEV. 653.51
 ELEV. 652.99
 ELEV. 653.66

UNDERDRAIN OUTLET
 STA. 1176+00 RT
 ELEV. 653.92
 ELEV. 653.40
 ELEV. 654.07

UNDERDRAIN OUTLET
 STA. 1179+50 LT
 ELEV. 655.37
 ELEV. 654.55
 ELEV. 655.22

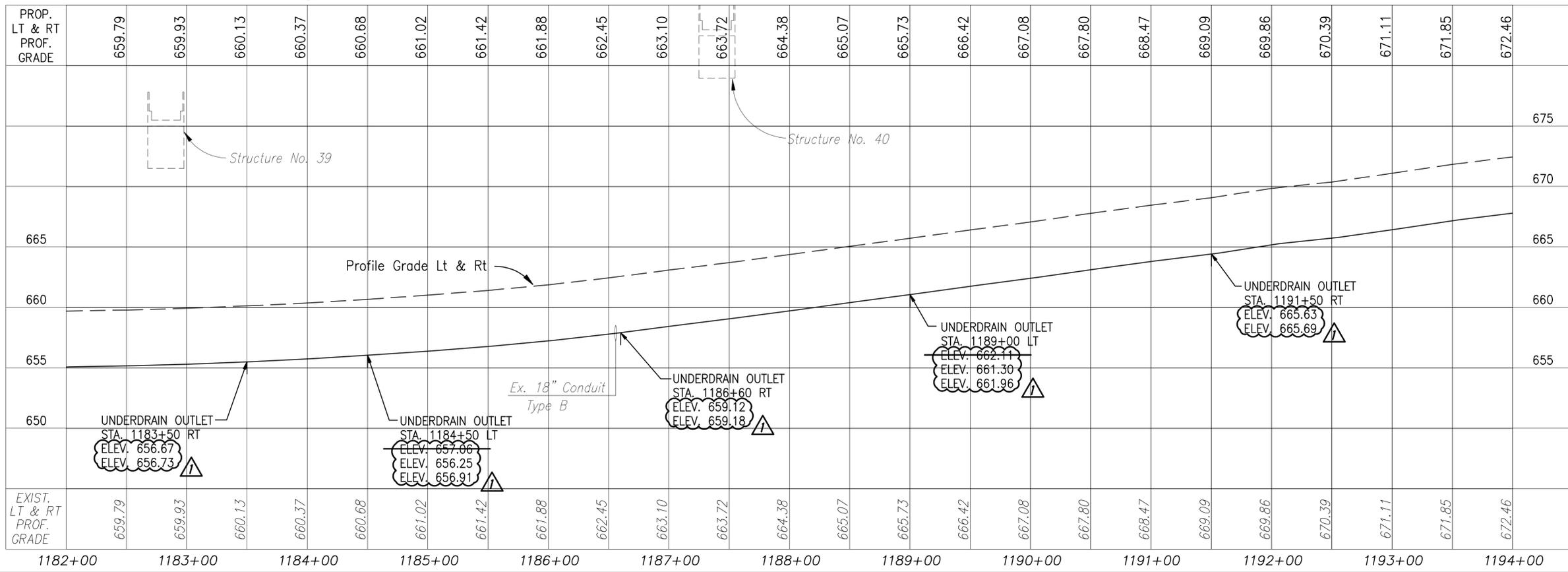
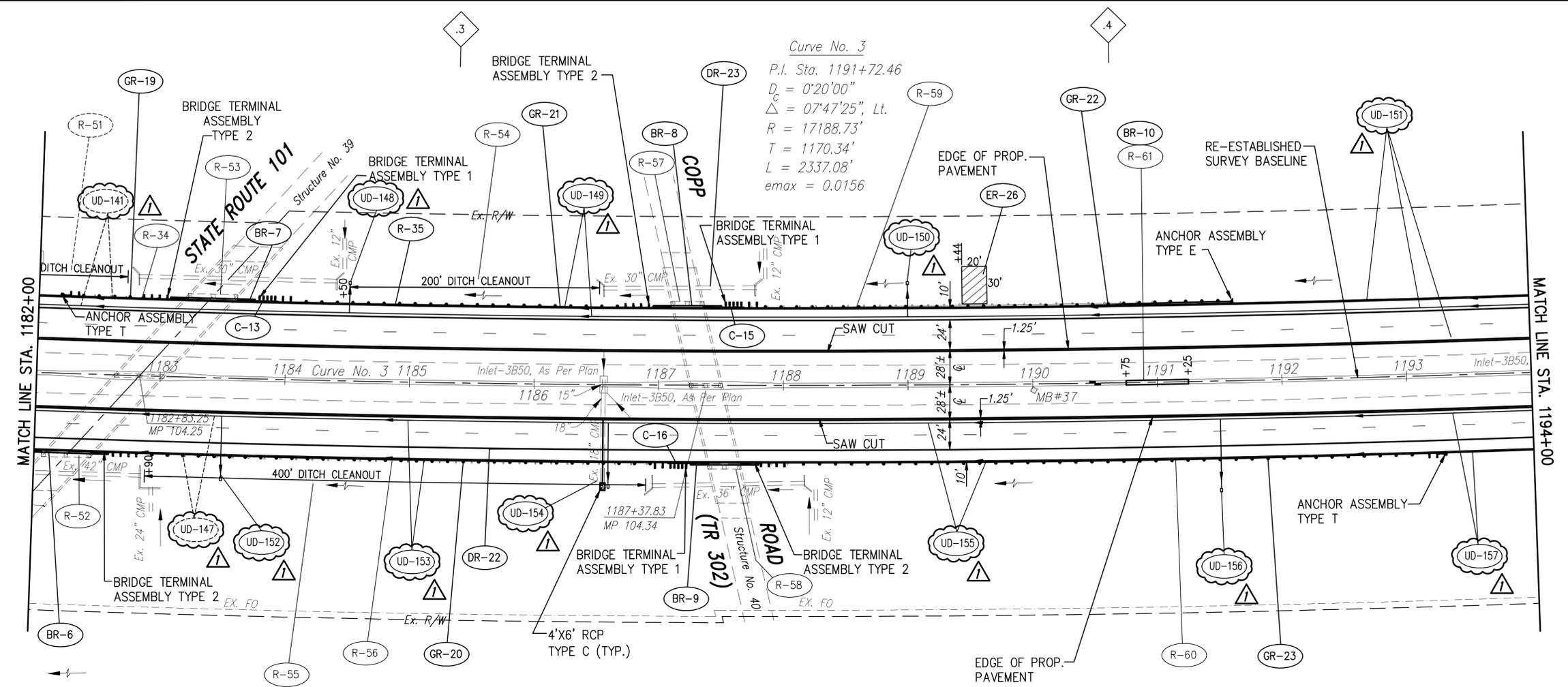
UNDERDRAIN OUTLET
 STA. 1180+60 RT
 ELEV. 655.76
 ELEV. 655.77



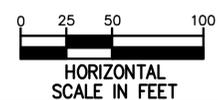
ADDENDUM NO. 1	JDC	2/7/14
NO.	REVISIONS	BY DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 1170+00 TO 1182+00		
CT Consultants engineers architects planners		
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=50'
CONTRACT 39-14-01 SHEET 147 OF 280		

BENCHMARK:
1" IPF MON. #37
ELEV. 664.95

Curve No. 3
P.I. Sta. 1191+72.46
 $D_c = 0^{\circ}20'00''$
 $\Delta = 07^{\circ}47'25''$, Lt.
 $R = 17188.73'$
 $T = 1170.34'$
 $L = 2337.08'$
 $e_{max} = 0.0156$



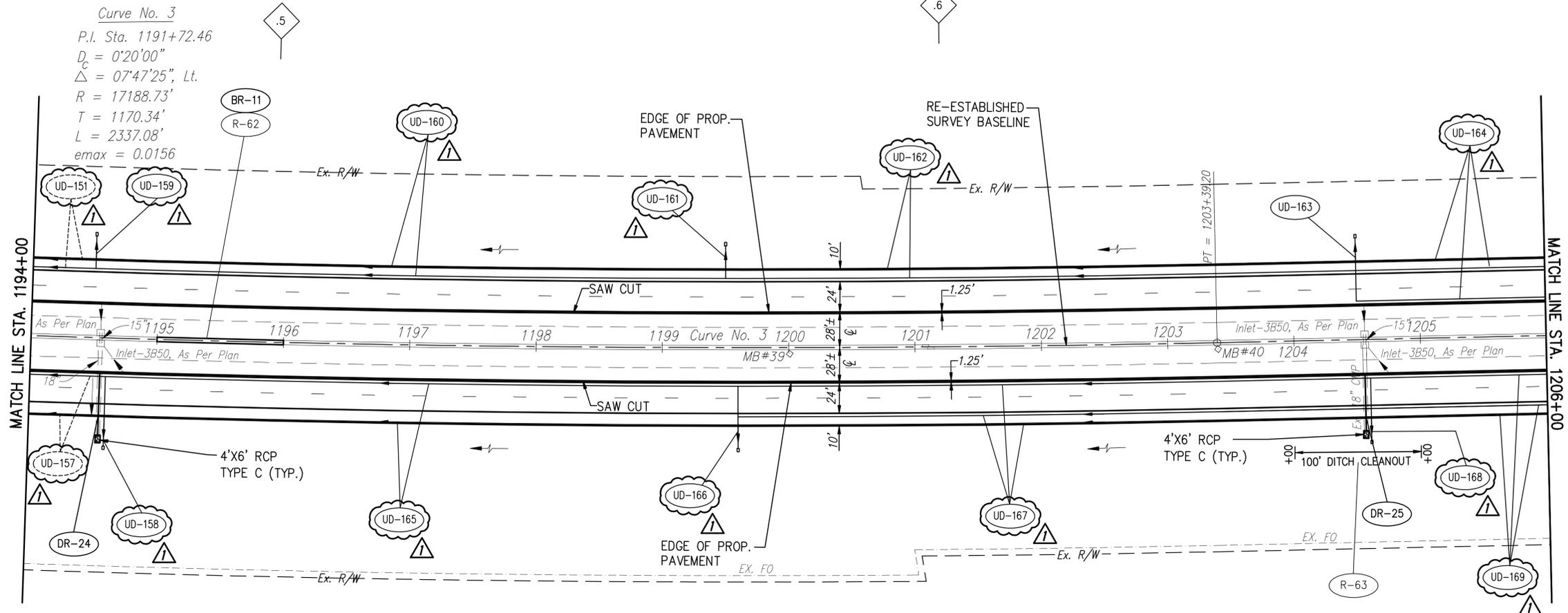
- 104 MILEPOST REFERENCE
- .3 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR TRANSITION TO APPROACH SLAB



DESIGNED BY: W.D.L. / CHECKED BY: JDC
DATE: 7/23/2013 / DATE: 2/7/14
DRAWN BY: W.D.L. / REVISIONS: BY / DATE
DATE: 7/13/2013 / DATE:
CAD FILE NAME: 13476-ALL.DWG

ADDENDUM NO. 1	JDC	2/7/14
NO.	REVISIONS	BY DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 1182+00 TO 1194+00		
CT Consultants engineers architects planners		
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=50'
CONTRACT 39-14-01 SHEET 148 OF 280		

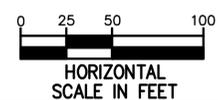
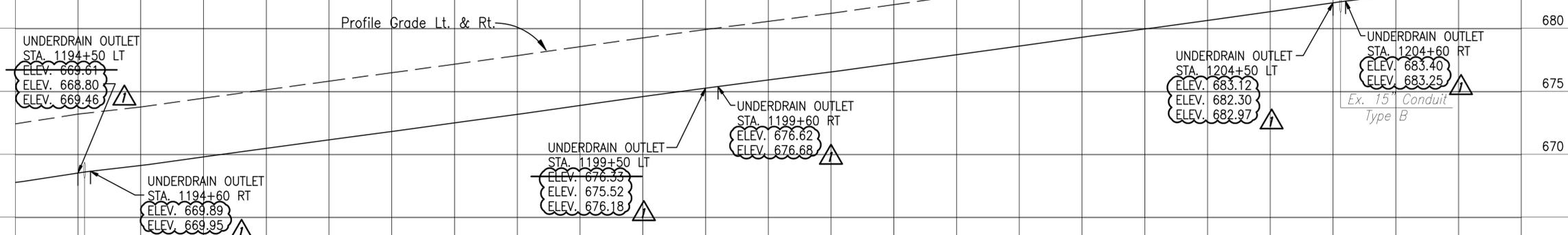
BENCHMARK:
 1" IPF MON. #39
 ELEV. 678.45
 1" IPF MON. #40
 ELEV. 683.12



Curve No. 3
 P.I. Sta. 1191+72.46
 $D_c = 0'20''00''$
 $\Delta = 07'47'25''$, Lt.
 $R = 17188.73'$
 $T = 1170.34'$
 $L = 2337.08'$
 $e_{max} = 0.0156$

- 104 MILEPOST REFERENCE
- .5 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR TRANSITION TO APPROACH SLAB

PROP. LT & RT PROF. GRADE	673.23	673.80	674.50	675.17	675.85	676.52	677.20	677.88	678.59	679.29	679.95	680.60	681.24	681.93	682.62	683.30	684.03	684.65	685.34	686.04	686.74	687.35	687.97	688.65
EXIST. LT & RT PROF. GRADE	673.23	673.80	674.50	675.17	675.85	676.52	677.20	677.88	678.59	679.29	679.95	680.60	681.24	681.93	682.62	683.30	684.03	684.65	685.34	686.04	686.74	687.35	687.97	688.65



DESIGNED BY: W.D.L. | CHECKED BY: JDC
 DATE: 7/23/2013 | DATE: 2/7/14
 DRAWN BY: W.D.L. | REVISIONS: BY DATE
 DATE: 7/23/2013 | DATE:
 CAD FILE NAME: 13476-ALL.DWG

ADDENDUM NO. 1 JDC 2/7/14

NO. REVISIONS BY DATE

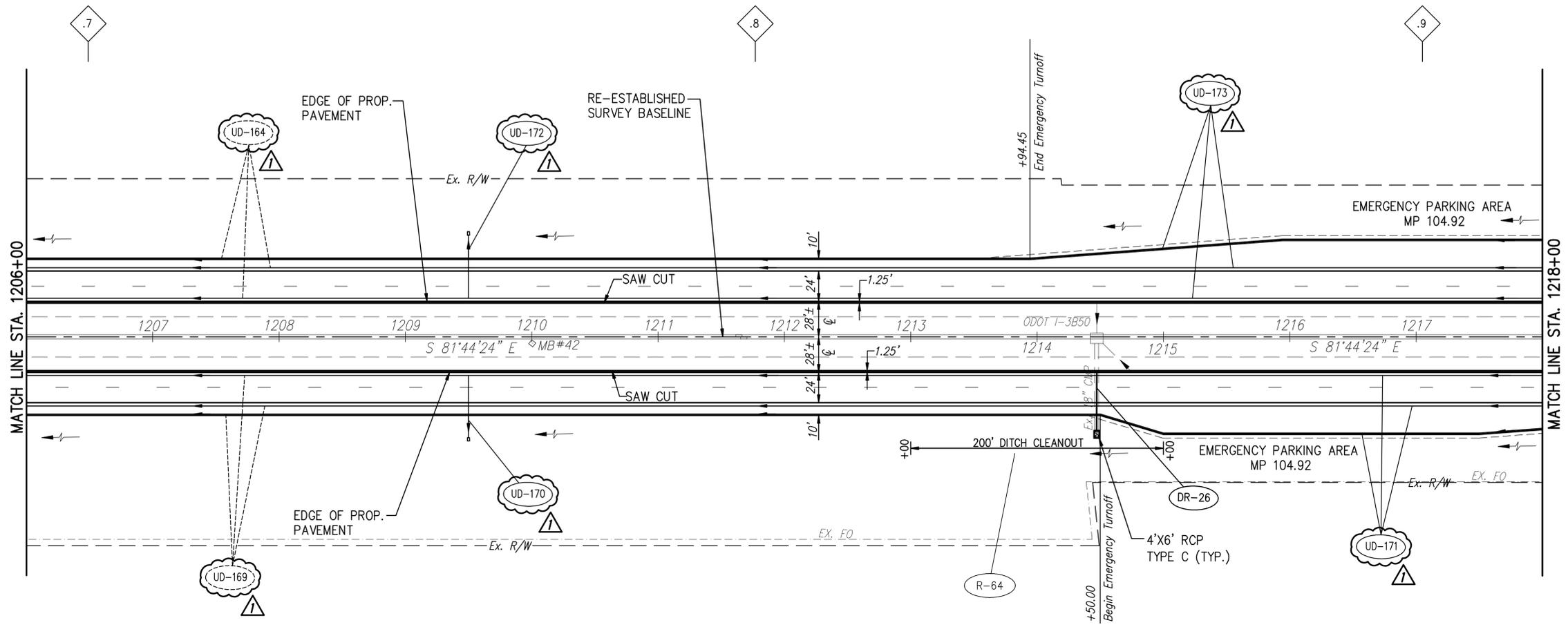
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION
 OHIO TURNPIKE EASTBOUND AND WESTBOUND
 RIGHT TWO LANES & SHOULDER RECONSTRUCTION
 PLAN & PROFILE - 1194+00 TO 1206+00

CT Consultants
 engineers | architects | planners
 2250 Ringwood Court, Columbus, Ohio 43260
 614.292.0000 www.ctconsultants.com

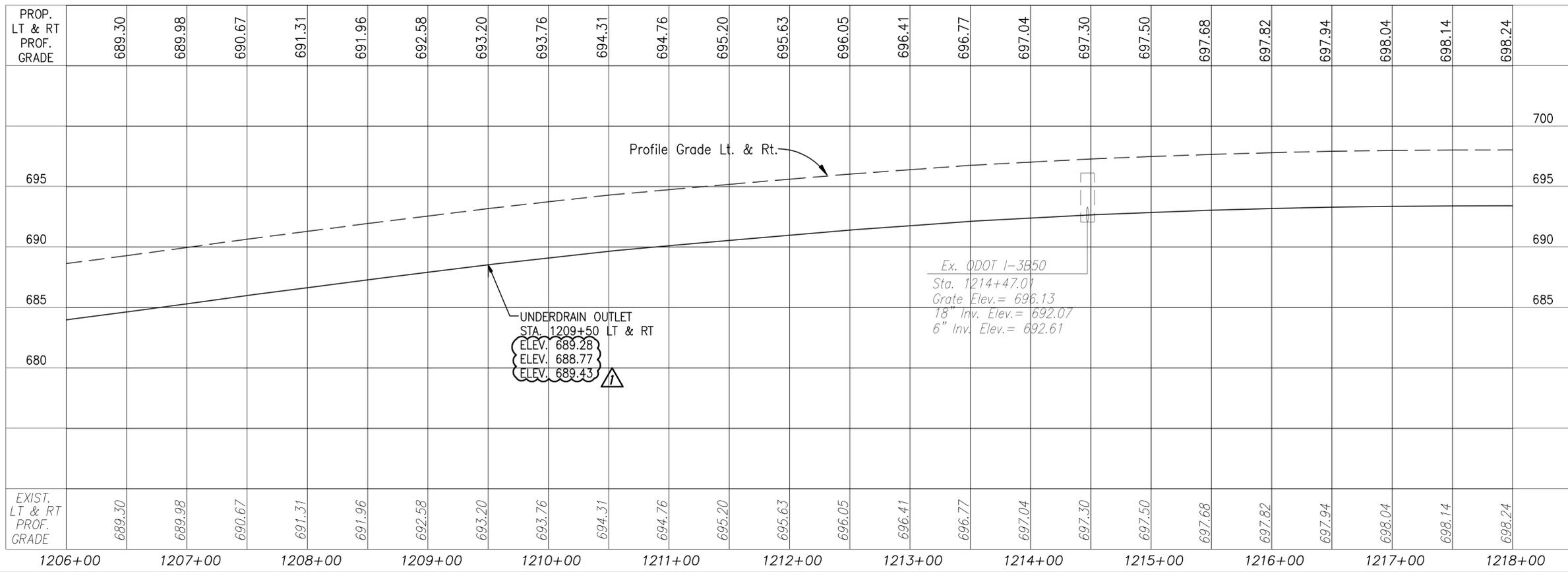
DESIGNED: W.D.B. | CHECKED: W.D.B. | DATE: JULY 2013
 DRAWN: D.L.F. | IN CHARGE: W.D.B. | SCALE: 1"=50'

CONTRACT 39-14-01 SHEET 149 OF 280

BENCHMARK:
 1" IPF MON. #42
 ELEV. 691.66



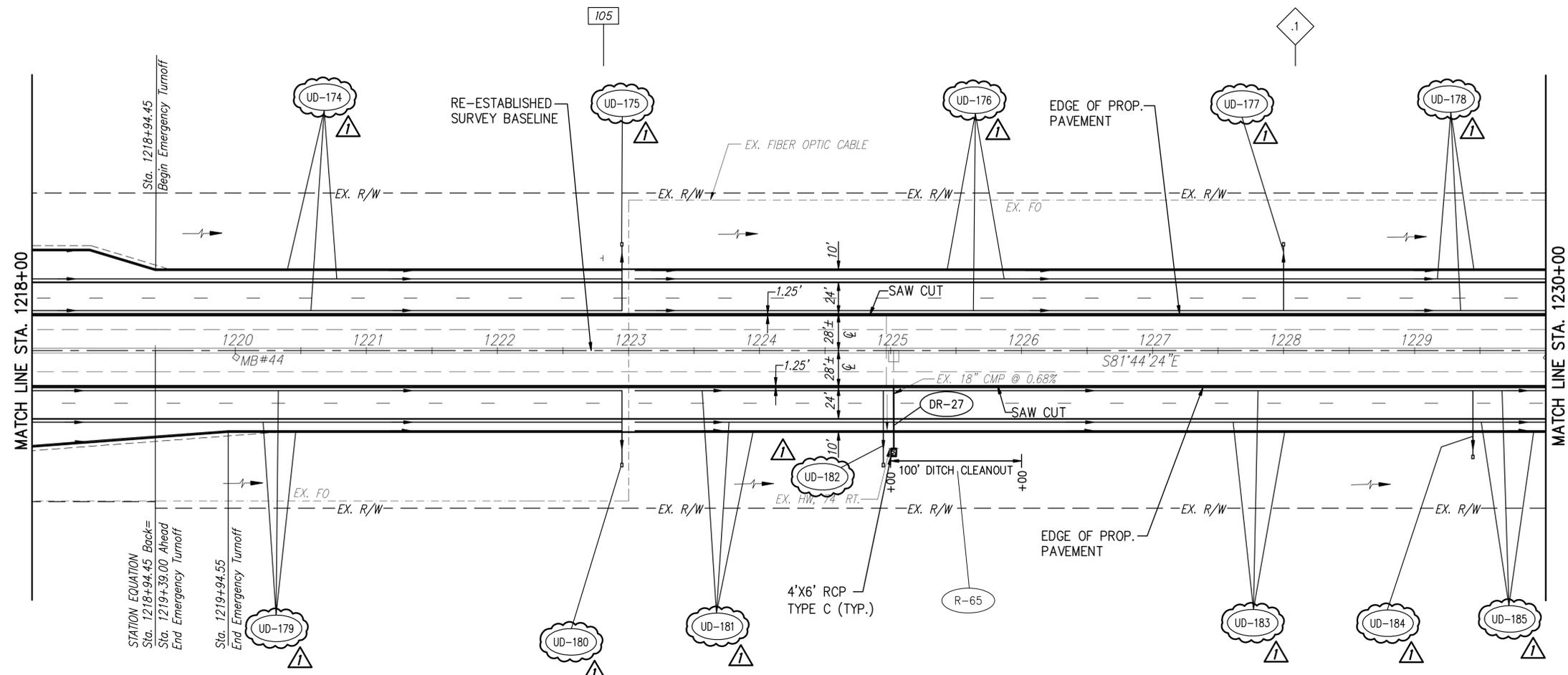
- 104 MILEPOST REFERENCE
- .7 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR TRANSITION TO APPROACH SLAB



DESIGNED BY: W.D.L.	CHECKED BY:
DATE: 7/23/2013	DATE:
DRAWN BY: W.D.L.	REVISED BY:
DATE: 7/23/2013	DATE:
CAD FILE NAME: 13476-ALL.DWG	

ADDENDUM NO. 1	JDC	2/7/14
NO. REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 1206+00 TO 1218+00		
CT Consultants engineers architects planners		
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=50'
CONTRACT 39-14-01 SHEET 150 OF 280		

BENCHMARK:
1" IPF MON. #44
ELEV. 696.11



NOTE: CONTRACTOR SHALL VERIFY LOCATION OF EXISTING FIBER OPTIC CABLE CROSSING AT APPROXIMATE STA. 1223+00 PRIOR TO BEGINNING WORK IN THIS AREA.

- 105 MILEPOST REFERENCE
- .0 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR TRANSITION TO APPROACH SLAB

PROP. LT & RT PROF. GRADE	697.15	697.02	697.96	697.86	697.76	697.68	697.61	697.53	697.45	697.39	697.33	697.24	697.16	697.09	697.00	696.92	696.85	696.77	696.69	696.62	696.53	696.44	696.36	696.29
EXIST. LT & RT PROF. GRADE	697.15	697.02	697.96	697.86	697.76	697.68	697.61	697.53	697.45	697.39	697.33	697.24	697.16	697.09	697.00	696.92	696.85	696.77	696.69	696.62	696.53	696.44	696.36	696.29

EX. INLET, NO. 3B50
STA. 1225+00, C/L
T.C. 695.92
INV. 691.51
GRATE RT.

Profile Grade Lt. & Rt.

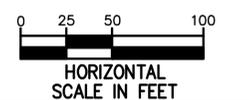
UNDERDRAIN OUTLET
STA. 1222+95 RT & LT
ELEV. 693.48
ELEV. 692.96
ELEV. 693.63

EX. FIBER OPTIC CABLE
ELEV. UNKNOWN
(CONTRACTOR TO VERIFY)

UNDERDRAIN OUTLET
STA. 1224+95 RT
ELEV. 693.18
ELEV. 692.66
ELEV. 693.33

UNDERDRAIN OUTLET
STA. 1228+00 LT
ELEV. 692.70
ELEV. 692.19
ELEV. 692.85

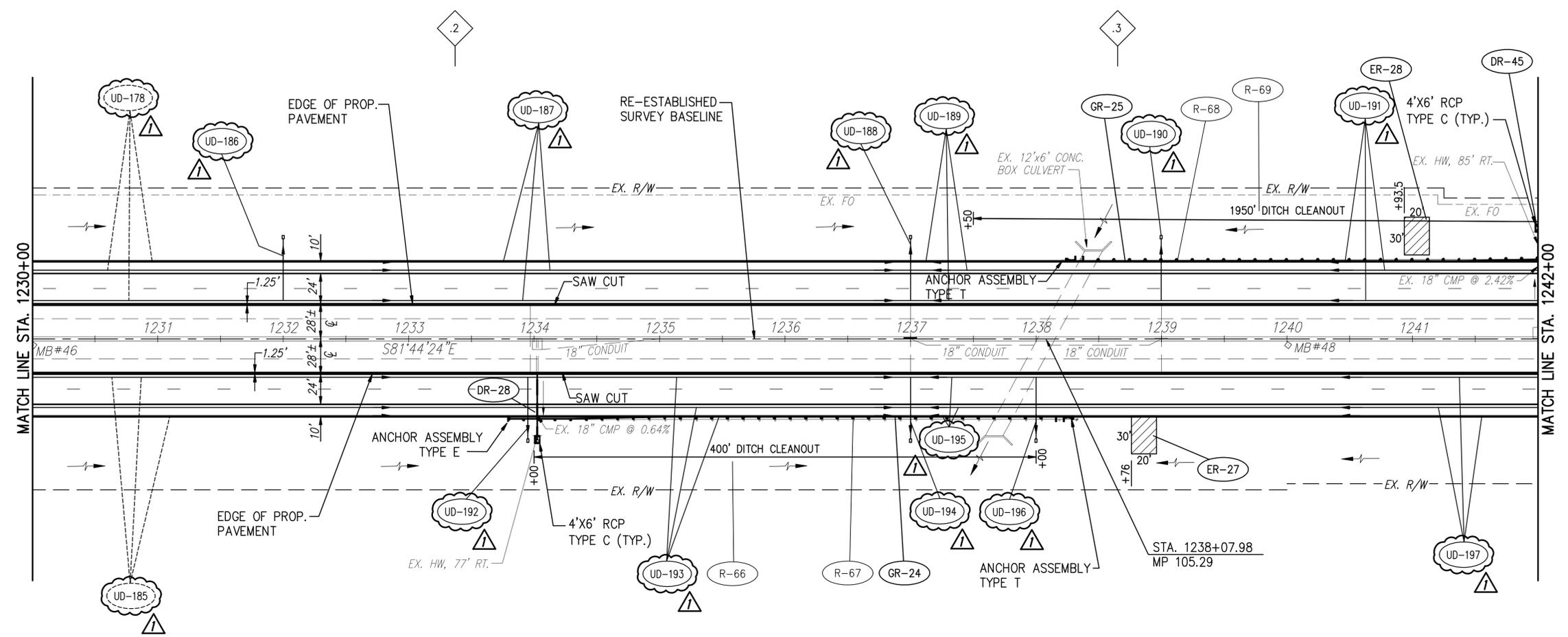
UNDERDRAIN OUTLET
STA. 1229+45 RT
ELEV. 692.45
ELEV. 691.94
ELEV. 692.60



DESIGNED BY: W.D.L. CHECKED BY: JDC
DATE: 10/20/2011 DATE: 2/7/14
DRAWN BY: W.D.L. REVISIONS BY: JDC
DATE: 10/20/2011 DATE: 2/7/14
CAD FILE NAME: TRFPMGT.DWG

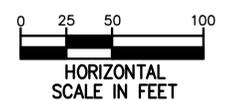
ADDENDUM NO. 1	JDC	2/7/14
NO.	REVISIONS	BY DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 1218+00 TO 1230+00		
CT Consultants engineers architects planners		
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=50'
CONTRACT 39-14-01 SHEET 151 OF 280		

BENCHMARKS:
 1" IPF MON. #46
 ELEV. 694.30
 1" IPF MON. #48
 ELEV. 693.84



PROP. LT & RT PROF. GRADE	696.23	696.17	696.08	695.99	695.90	695.82	695.74	695.66	695.59	695.52	695.44	695.37	695.35	695.33	695.39	695.45	695.52	695.60	695.68	695.77	695.88	695.99	696.11	696.23	
700						EX. INLET, NO. 3B50 STA. 1239+00, C/L T.C. 694.51 INV. 690.00 (18"S) INV. 690.10 (18"E) GRATE RT.					EX. INLET, NO. 3B50 STA. 1235+00, C/L T.C. 694.37 INV. 690.52 GRATE RT.						EX. INLET, NO. 3B50 STA. 1236+94, C/L T.C. 694.14 INV. 689.33 GRATE RT.							EX. INLET, NO. 3B50 STA. 1239+00, C/L T.C. 694.43 INV. 688.98 GRATE RT.	700
695																									
690																									
685		UNDERDRAIN OUTLET STA. 1232+00 LT ELEV. 692.07 ELEV. 691.56 ELEV. 692.22				UNDERDRAIN OUTLET STA. 1233+95 RT ELEV. 691.75 ELEV. 691.24 ELEV. 691.90					UNDERDRAIN OUTLET STA. 1237+00 LT & RT ELEV. 691.41 ELEV. 690.90 ELEV. 691.56			UNDERDRAIN OUTLET STA. 1238+00 RT ELEV. 691.53 ELEV. 691.02 ELEV. 691.68							UNDERDRAIN OUTLET STA. 1239+00 LT ELEV. 691.68 ELEV. 691.17 ELEV. 691.83				
EXIST. LT & RT PROF. GRADE	696.23	696.17	696.08	695.99	695.90	695.82	695.74	695.66	695.59	695.52	695.44	695.37	695.35	695.33	695.39	695.45	695.52	695.60	695.68	695.77	695.88	695.99	696.11	696.23	
	1230+00	1231+00	1232+00	1233+00	1234+00	1235+00	1236+00	1237+00	1238+00	1239+00	1240+00	1241+00	1242+00												

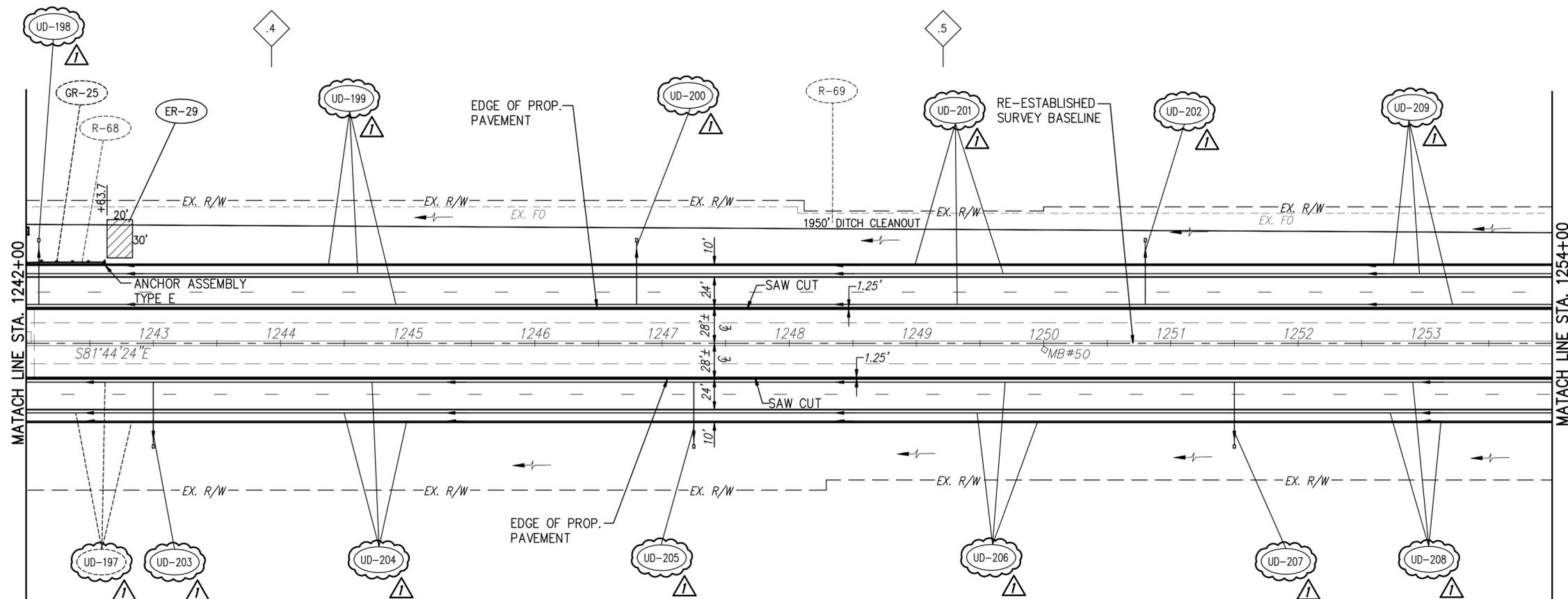
- 105 MILEPOST REFERENCE
- .2 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR TRANSITION TO APPROACH SLAB



DESIGNED BY: W.D.L. CHECKED BY: JDC
 DATE: 7/23/2013 DATE: 2/7/14
 DRAWN BY: W.D.L. REVISIONS BY: JDC
 DATE: 7/23/2013 DATE: 2/7/14
 CAD FILE NAME: 13476-ALL.DWG

ADDENDUM NO. 1	JDC	2/7/14
NO. REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 1230+00 TO 1242+00		
CT Consultants engineers architects planners		
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=50'
CONTRACT 39-14-01 SHEET 152 OF 280		

BENCHMARK:
1" IPF MON. #50
ELEV. 695.86



PROP. LT & RT PROF. GRADE	696.34	696.44	696.53	696.61	696.69	696.77	696.85	696.93	697.05	697.16	697.25	697.34	697.44	697.54	697.63	697.73	697.82	697.90	697.98	698.05	698.15	698.25	698.34	698.43	
700																									700
695																									695
690																									690
685																									685
EXIST. LT & RT PROF. GRADE	696.34	696.44	696.53	696.61	696.69	696.77	696.85	696.93	697.05	697.16	697.25	697.34	697.44	697.54	697.63	697.73	697.82	697.90	697.98	698.05	698.15	698.25	698.34	698.43	

EX. INLET, NO. 3B50
STA. 1242+00, C/L
T.C. 695.01
INV. 690.14
GRATE LT.

Profile Grade Lt. & Rt.

UNDERDRAIN OUTLET
STA. 1242+10 LT
ELEV. 692.33
ELEV. 691.81
ELEV. 692.48

UNDERDRAIN OUTLET
STA. 1243+00 RT
ELEV. 692.52
ELEV. 692.01
ELEV. 692.67

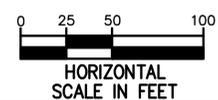
UNDERDRAIN OUTLET
STA. 1246+80 LT
ELEV. 693.20
ELEV. 692.68
ELEV. 693.34

UNDERDRAIN OUTLET
STA. 1247+25 RT
ELEV. 693.29
ELEV. 692.77
ELEV. 693.43

UNDERDRAIN OUTLET
STA. 1250+80 LT
ELEV. 693.95
ELEV. 693.43
ELEV. 694.09

UNDERDRAIN OUTLET
STA. 1251+50 RT
ELEV. 694.06
ELEV. 693.55
ELEV. 694.21

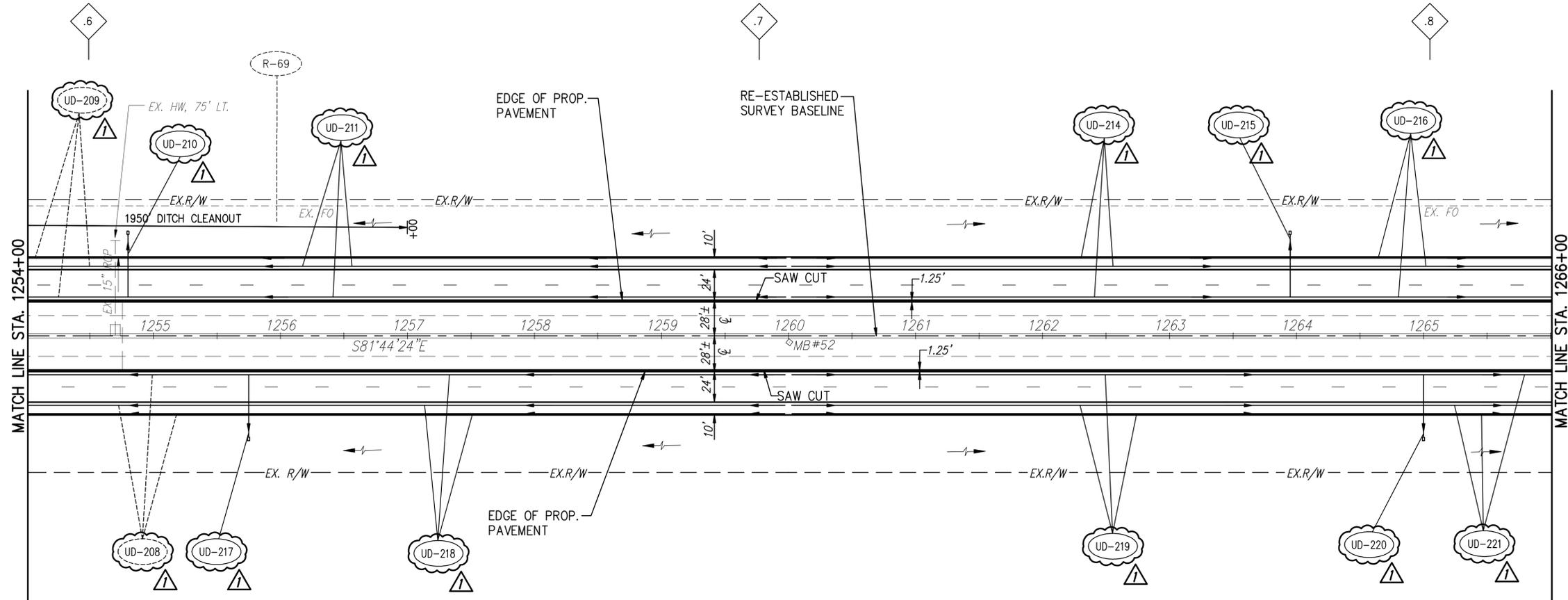
- 105 MILEPOST REFERENCE
- .4 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR TRANSITION TO APPROACH SLAB



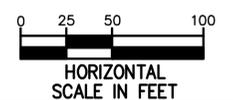
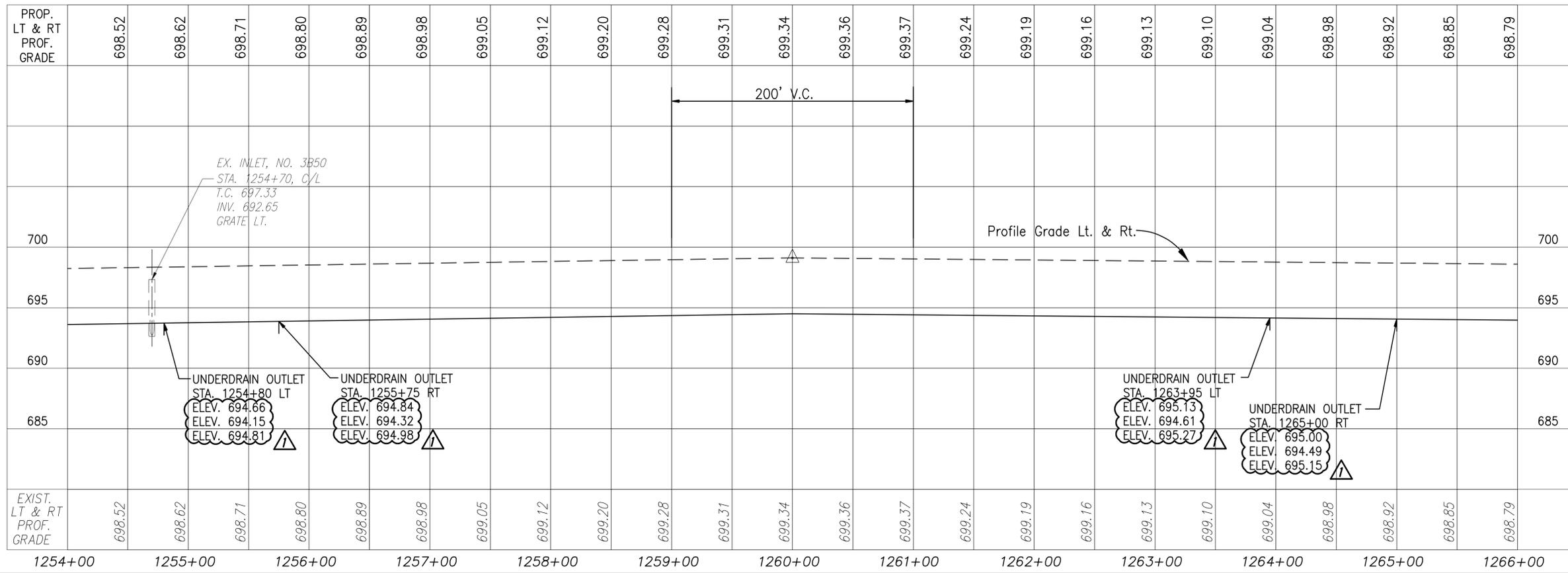
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DATE: 7/23/2013 DATE:
DRAWN BY: W.D.L. REVISED BY:
DATE: 7/23/2013 DATE:
CAD FILE NAME: 13476-ALL.DWG

ADDENDUM NO. 1	JDC	2/7/14
NO. REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 1242+00 TO 1254+00		
CT Consultants engineers architects planners		
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=50'
CONTRACT 39-14-01 SHEET 153 OF 280		

BENCHMARK:
1" IPF MON. #52
ELEV. 697.43



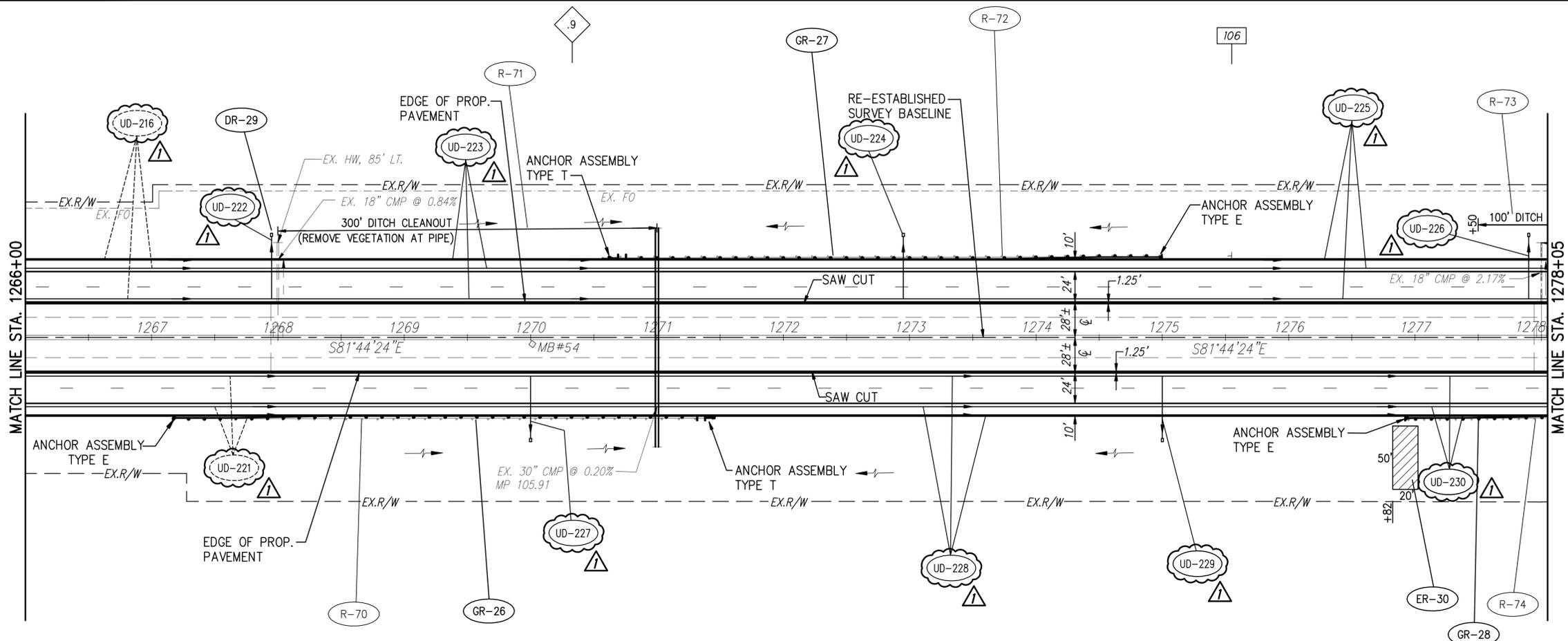
- 105 MILEPOST REFERENCE
- .6 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR TRANSITION TO APPROACH SLAB



DESIGNED BY: W.D.L. | CHECKED BY:
DATE: 7/23/2013 | DATE:
DRAWN BY: W.D.L. | REVISED BY:
DATE: 7/23/2013 | DATE:
CAD FILE NAME: 13476-ALL.DWG

ADDENDUM NO. 1	JDC	2/7/14
NO.	REVISIONS	BY DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 1254+00 TO 1266+00		
CT Consultants engineers architects planners		
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=50'
CONTRACT 39-14-01 SHEET 154 OF 280		

BENCHMARK:
1" IPF MON. #54
ELEV. 696.28



- 105 MILEPOST REFERENCE
- .9 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR TRANSITION TO APPROACH SLAB

PROP. LT & RT PROF. GRADE	698.72	698.66	698.59	698.53	698.49	698.41	698.33	698.27	698.22	698.17	698.12	698.07	698.02	697.97	697.92	697.87	697.82	697.76	697.71	697.65	697.59	697.53	697.48	697.42
700																								
695																								
690																								
685																								
EXIST. LT & RT PROF. GRADE	698.72	698.66	698.59	698.53	698.49	698.41	698.33	698.27	698.22	698.17	698.12	698.07	698.02	697.97	697.92	697.87	697.82	697.76	697.71	697.65	697.59	697.53	697.48	697.42
STATION	1266+00	1267+00	1268+00	1269+00	1270+00	1271+00	1272+00	1273+00	1274+00	1275+00	1276+00	1277+00	1278+00											

EX. INLET, NO. 3B50
STA. 1268+00, C/L
T.C. 697.31
INV. 689.40
GRATE LT.

Profile Grade Lt. & Rt.

UNDERDRAIN OUTLET
STA. 1267+95 LT
ELEV. 694.62
ELEV. 694.10
ELEV. 694.76

UNDERDRAIN OUTLET
STA. 1270+00 RT
ELEV. 694.35
ELEV. 693.84
ELEV. 694.50

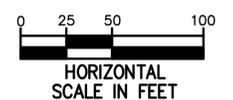
EX. 30" CMP
INV. 686.84

UNDERDRAIN OUTLET
STA. 1272+95 LT
ELEV. 694.06
ELEV. 693.54
ELEV. 694.20

UNDERDRAIN OUTLET
STA. 1275+00 RT
ELEV. 693.84
ELEV. 693.33
ELEV. 693.99

UNDERDRAIN OUTLET
STA. 1277+90 LT
ELEV. 693.51
ELEV. 693.00
ELEV. 693.66

DESIGNED BY: W.D.L. | CHECKED BY:
DATE: 7/23/2013 | DATE:
DRAWN BY: W.D.L. | REVISED BY:
DATE: 7/23/2013 | DATE:
CAD FILE NAME: 13476-ALL.DWG



ADDENDUM NO. 1
NO. REVISIONS BY DATE
JDC 2/7/14

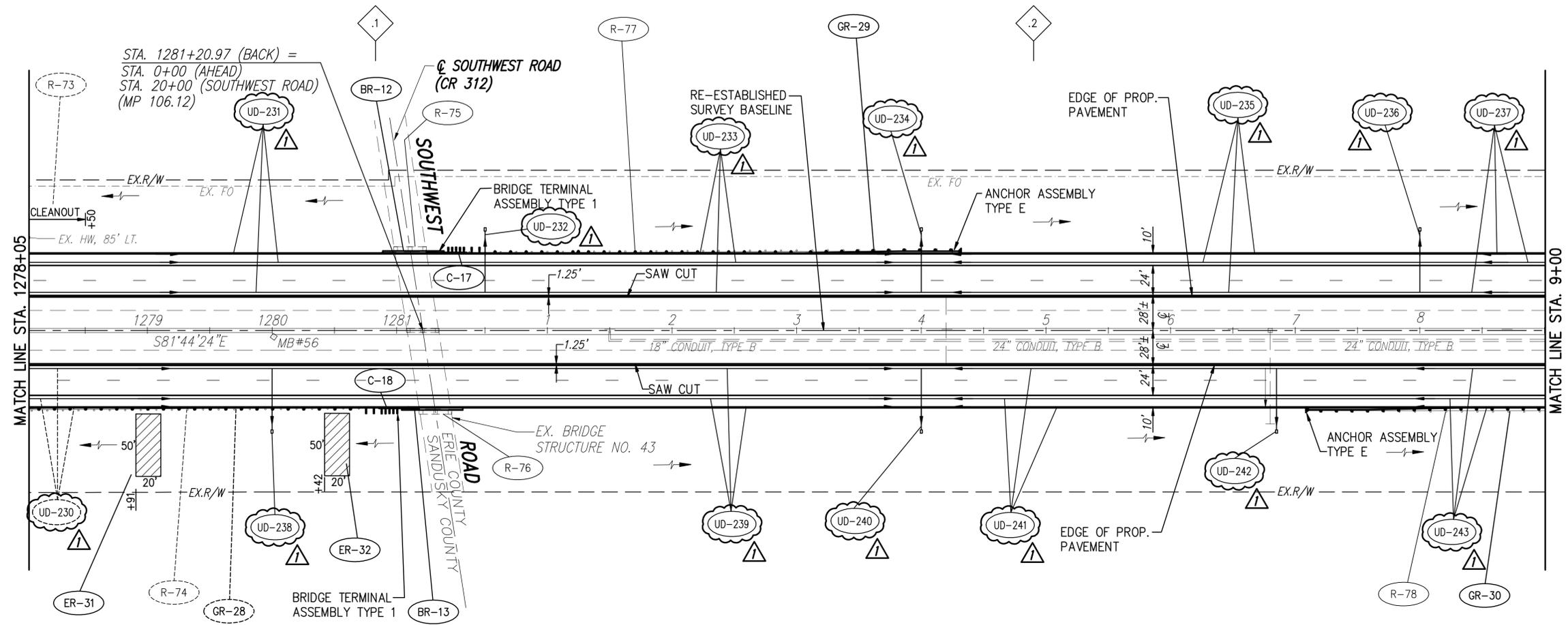
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION
OHIO TURNPIKE EASTBOUND AND WESTBOUND
RIGHT TWO LANES & SHOULDER RECONSTRUCTION
PLAN & PROFILE - 1266+00 TO 1278+05

CT Consultants
engineers | architects | planners
2200 Spring Creek Avenue, Columbus, OH 43240
614.221.0000 www.ctconsultants.com

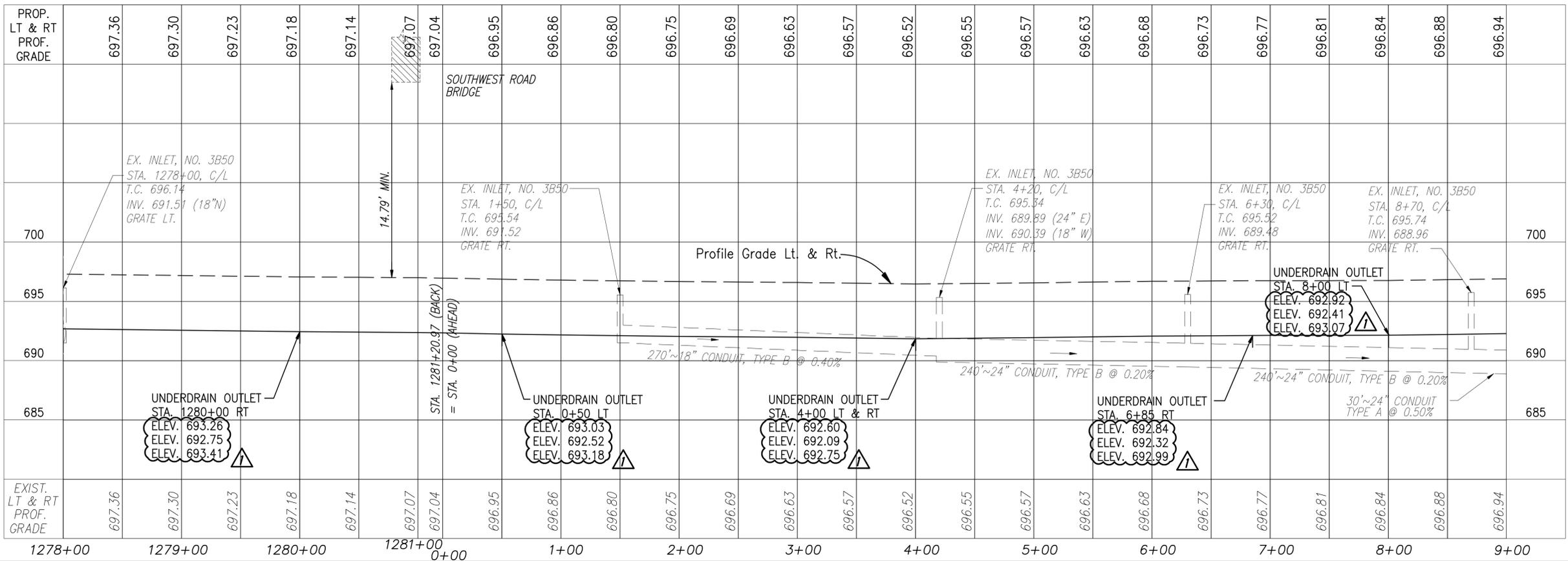
DESIGNED: W.D.B. | CHECKED: W.D.B. | DATE: JULY 2013
DRAWN: D.L.F. | IN CHARGE: W.D.B. | SCALE: 1"=50'

CONTRACT 39-14-01 SHEET 155 OF 280

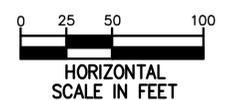
BENCHMARK:
1" IPF MON. #56
ELEV. 695.16



- 106 MILEPOST REFERENCE
- .1 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR TRANSITION TO APPROACH SLAB

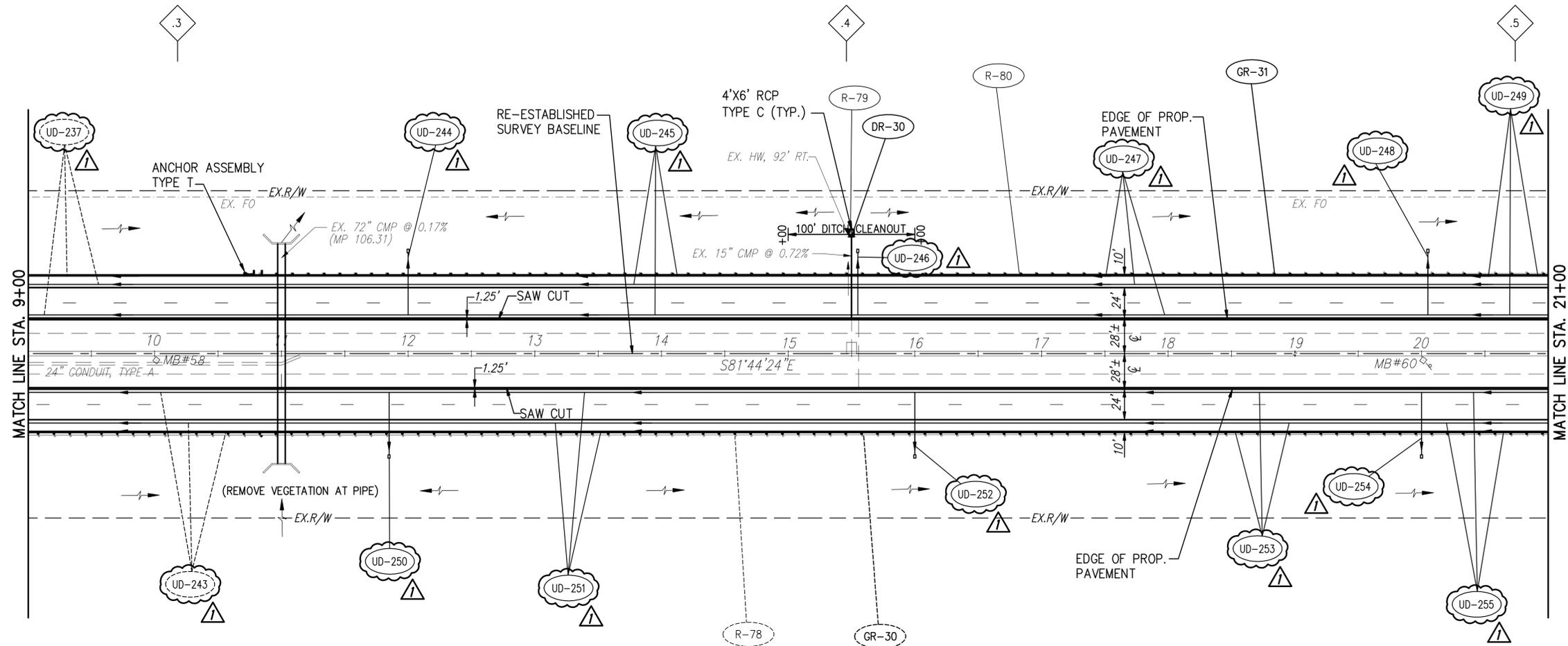


DESIGNED BY: W.D.L.	CHECKED BY:
DATE: 7/23/2013	DATE:
DRAWN BY: W.D.L.	REVISOR BY:
DATE: 7/23/2013	DATE:
CAD FILE NAME: 13476-ALL.DWG	



ADDENDUM NO. 1	JDC	2/7/14
NO.	REVISIONS	BY DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 1278+05 TO 9+00		
CT Consultants engineers architects planners		
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=50'
CONTRACT 39-14-01 SHEET 156 OF 280		

BENCHMARK:
 1" IPF MON. #58
 ELEV. 695.05
 1" IPF MON. #60
 ELEV. 695.81



- 106 MILEPOST REFERENCE
- 3 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR TRANSITION TO APPROACH SLAB

PROP. LT & RT PROF. GRADE	9+00	10+00	11+00	12+00	13+00	14+00	15+00	16+00	17+00	18+00	19+00	20+00	21+00												
	696.99	697.04	697.08	697.11	697.15	697.20	697.24	697.28	697.33	697.38	697.41	697.44	697.47	697.50	697.55	697.59	697.64	697.68	697.72	697.76	697.79	697.81	697.88	698.03	
700																									
695																									
690																									
685																									
EXIST. LT & RT PROF. GRADE	696.99	697.04	697.08	697.11	697.15	697.20	697.24	697.28	697.33	697.38	697.41	697.44	697.47	697.50	697.55	697.59	697.64	697.68	697.72	697.76	697.79	697.81	697.88	698.03	

Profile Grade Lt. & Rt.

EX. INLET, NO. 3B50
 STA. 15+50, C/L
 T.C. 696.25
 INV. 688.37
 GRATE LT.

UNDERDRAIN OUTLET
 STA. 20+05 LT
 ELEV. 694.05
 ELEV. 693.07

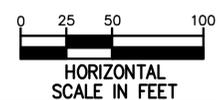
UNDERDRAIN OUTLET
 STA. 11+85 RT
 ELEV. 693.27
 ELEV. 692.75
 ELEV. 693.41

UNDERDRAIN OUTLET
 STA. 12+00 LT
 ELEV. 693.28
 ELEV. 692.77
 ELEV. 693.43

UNDERDRAIN OUTLET
 STA. 15+55 LT
 ELEV. 693.55
 ELEV. 693.04
 ELEV. 693.70

UNDERDRAIN OUTLET
 STA. 16+00 LT
 ELEV. 693.58
 ELEV. 693.07
 ELEV. 693.73

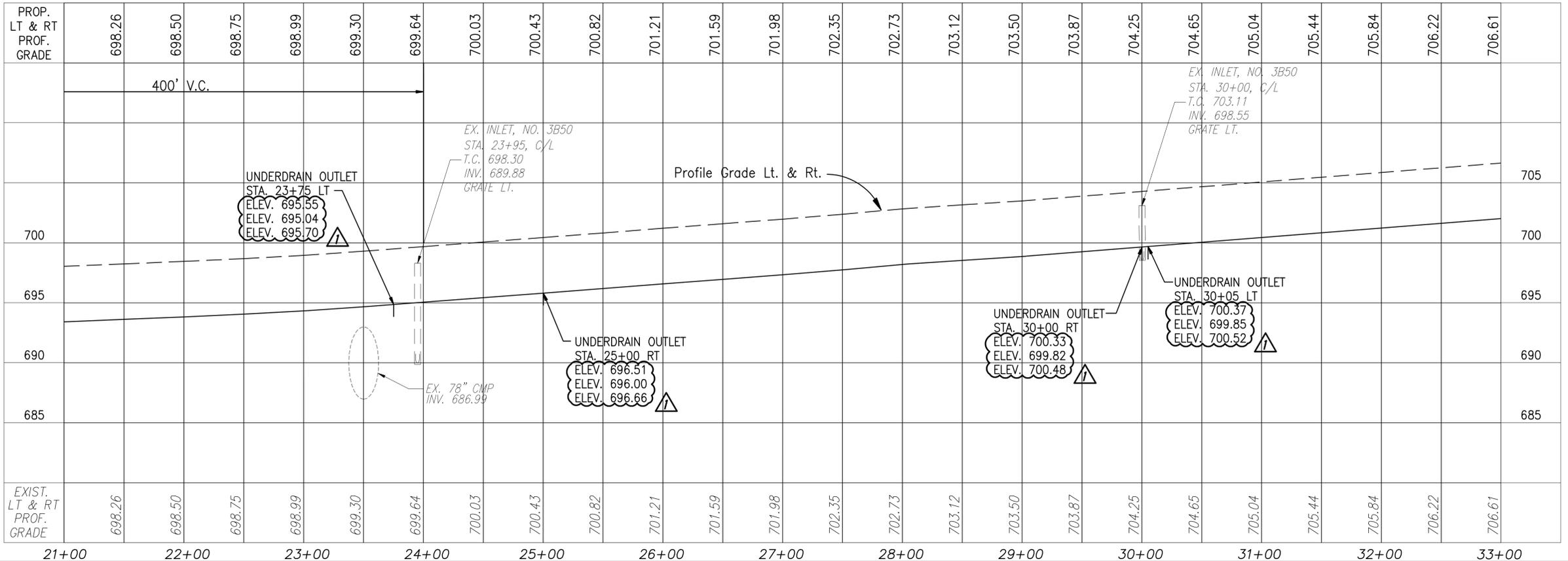
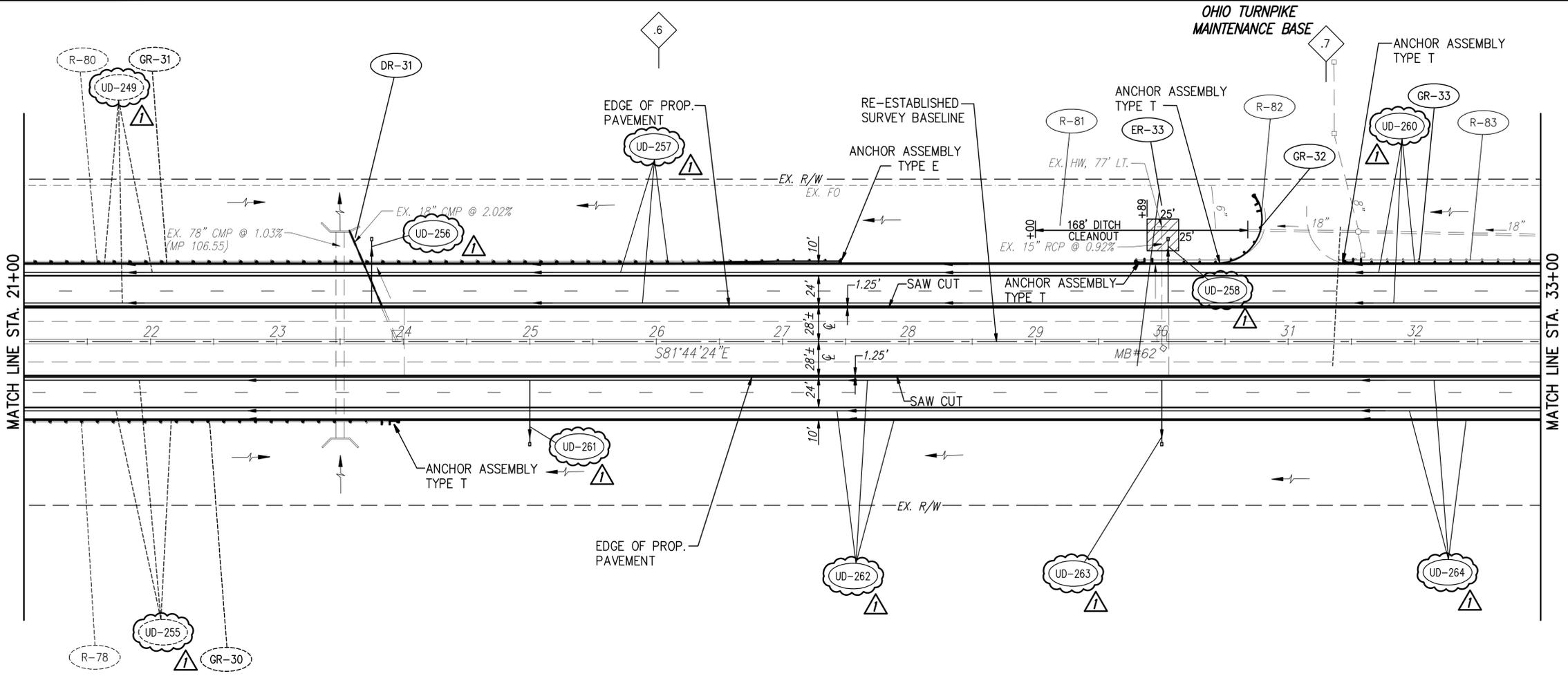
UNDERDRAIN OUTLET
 STA. 20+00 RT
 ELEV. 693.89
 ELEV. 693.38
 ELEV. 694.04



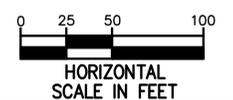
DESIGNED BY: W.D.L. / CHECKED BY: []
 DATE: 7/23/2013 / DATE: []
 DRAWN BY: W.D.L. / REVISED BY: []
 DATE: 7/23/2013 / DATE: []
 CAD FILE NAME: 13476-ALL.DWG

ADDENDUM NO. 1	JDC	2/7/14
NO. REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 9+00 TO 21+00		
CT Consultants engineers architects planners		
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY, 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=50'
CONTRACT 39-14-01 SHEET 157 OF 280		

BENCHMARK:
 1" IPF MON. #62
 ELEV. 702.20



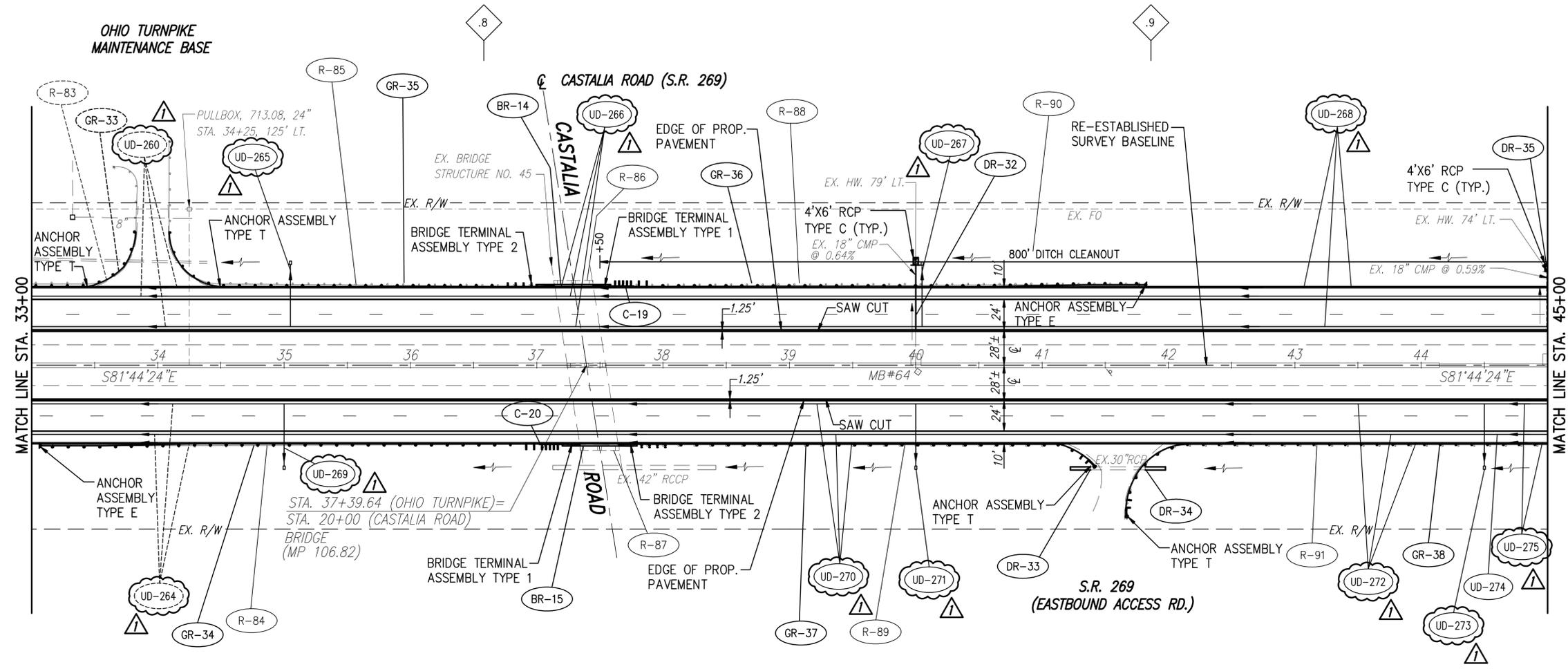
- 106 MILEPOST REFERENCE
- .6 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR TRANSITION TO APPROACH SLAB



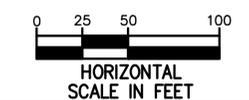
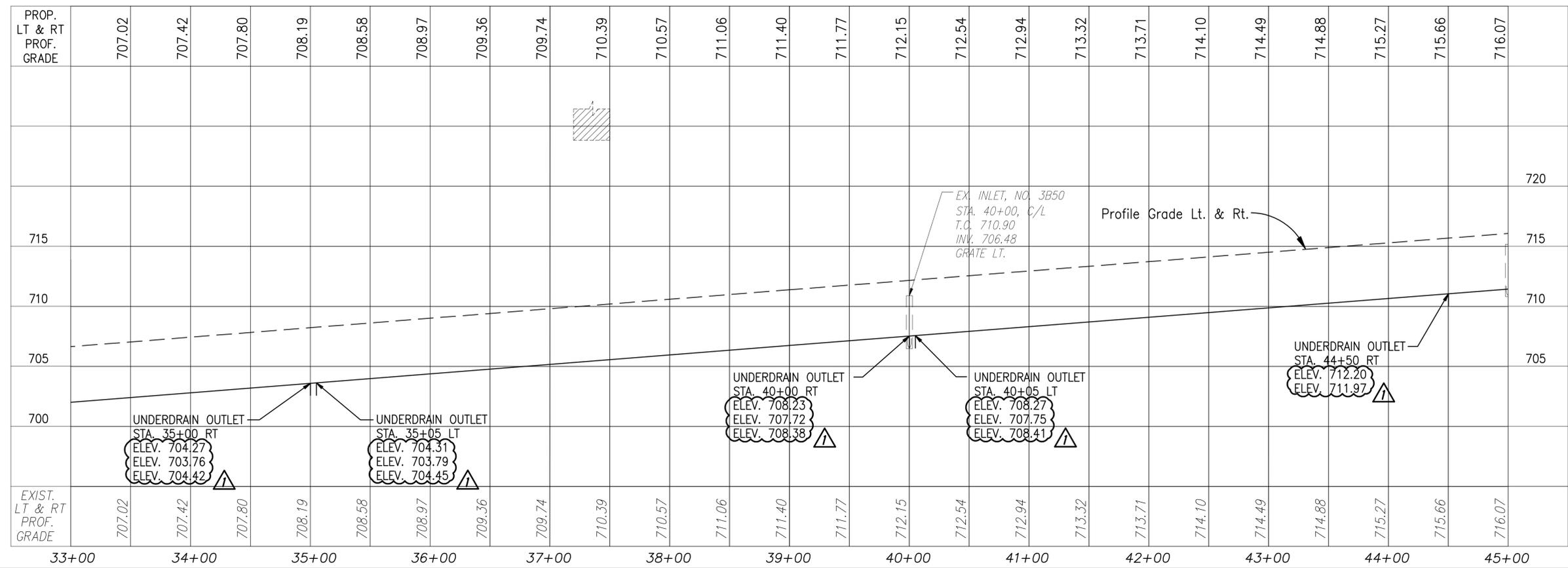
DESIGNED BY: W.D.L. | CHECKED BY: []
 DATE: 7/23/2013 | DATE: []
 DRAWN BY: W.D.L. | REVISED BY: []
 DATE: 7/23/2013 | DATE: []
 CAD FILE NAME: 13476-ALL.DWG

ADDENDUM NO. 1		JDC	2/7/14
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION			
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 21+00 TO 33+00			
CT Consultants engineers architects planners			
DESIGNED: W.D.B.	CHECKED: W.D.B.	DATE: JULY 2013	
DRAWN: D.L.F.	IN CHARGE: W.D.B.	SCALE: 1"=50'	
CONTRACT 39-14-01 SHEET 158 OF 280			

BENCHMARK:
 1" IPF MON. #64
 ELEV. 709.99



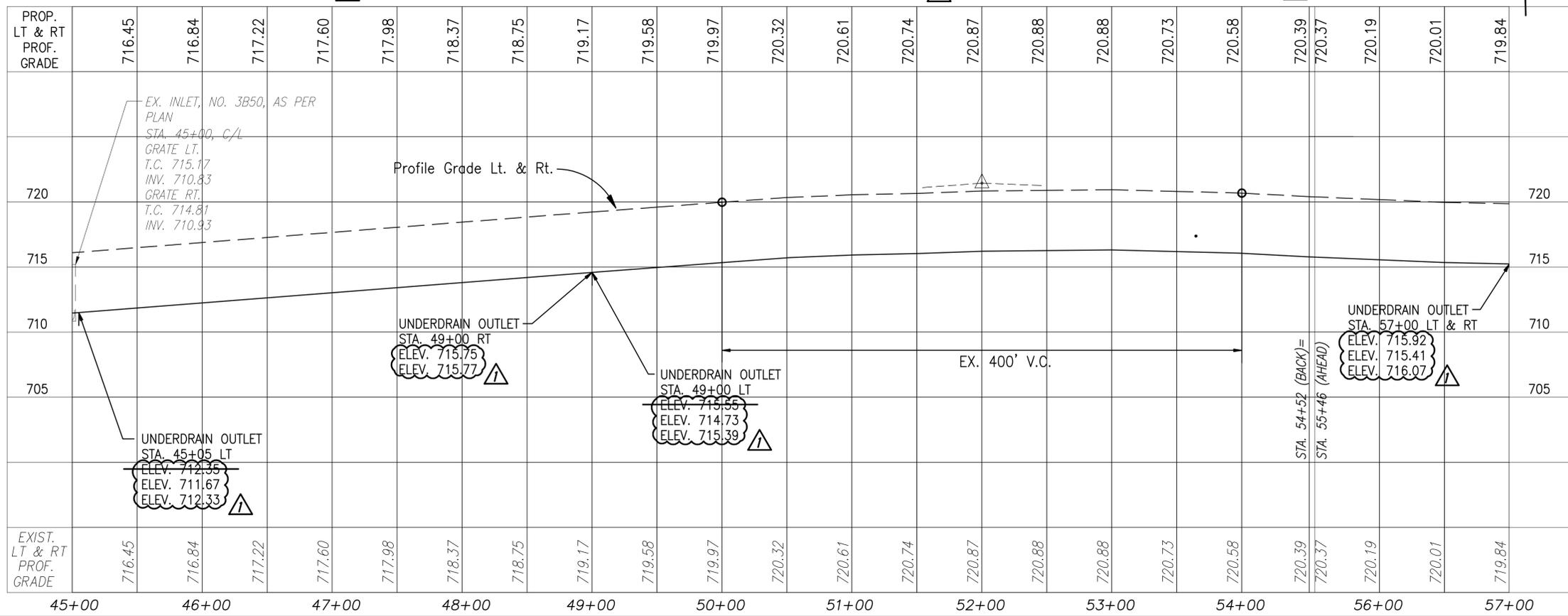
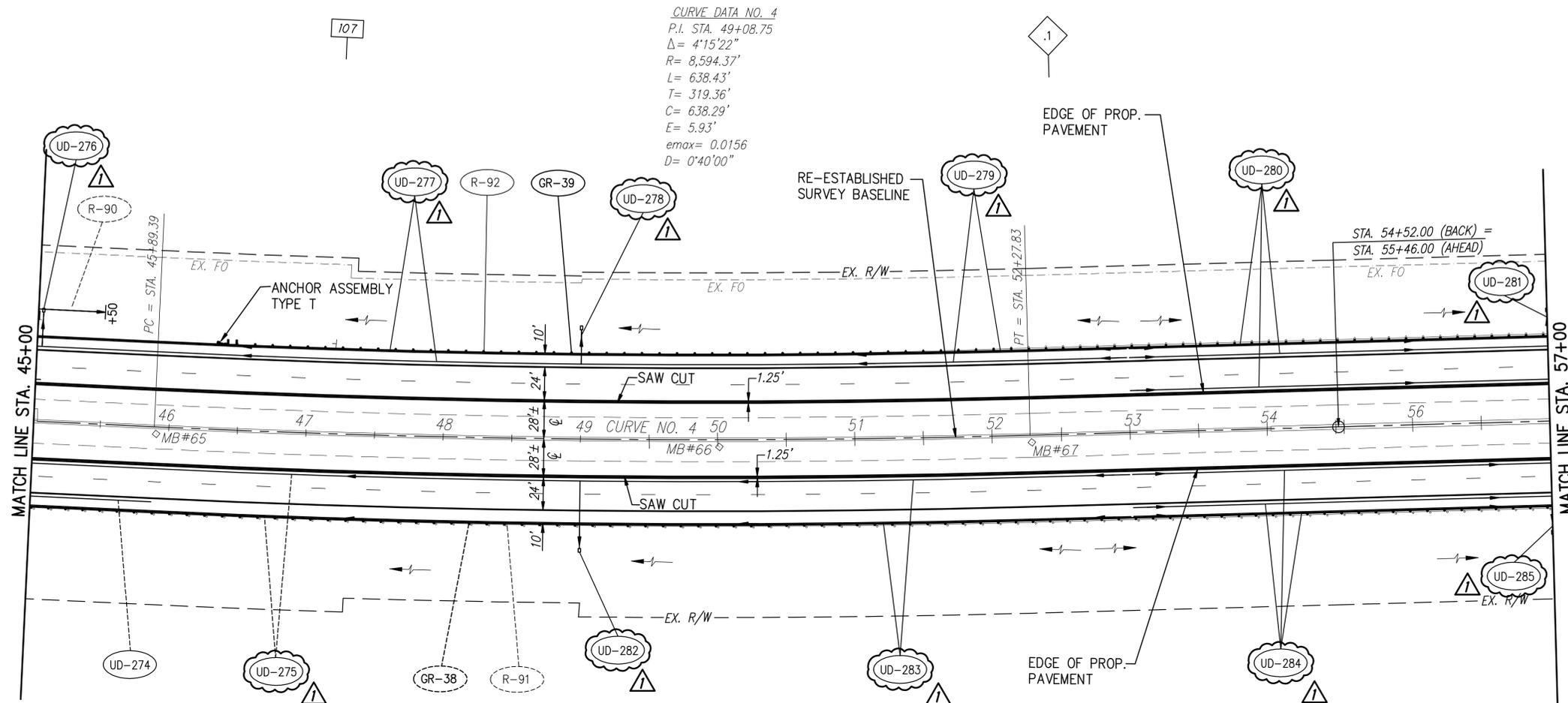
- 106 MILEPOST REFERENCE
- .8 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR TRANSITION TO APPROACH SLAB



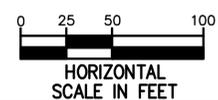
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 DATE: 7/23/2013 | DATE: 2/7/14
 DRAWN BY: W.D.L. | REVISIONS: BY DATE
 DATE: 7/23/2013 | DATE:
 CAD FILE NAME: 13476-ALL.DWG

ADDENDUM NO. 1	JDC 2/7/14
NO. REVISIONS	BY DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION	
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 33+00 TO 45+00	
CT Consultants engineers architects planners	
DESIGNED: W.D.B. CHECKED: W.D.B. DATE: JULY 2013	2200 Blanding Court, Akron, Ohio 44333
DRAWN: D.L.F. IN CHARGE: W.D.B. SCALE: 1"=50'	
CONTRACT 39-14-01 SHEET 159 OF 280	

BENCHMARKS:
 1" IPF MON. #65
 ELEV. 714.83
 1" IPF MON. #66
 ELEV. 717.96
 1" IPF MON. #67
 ELEV. 719.06

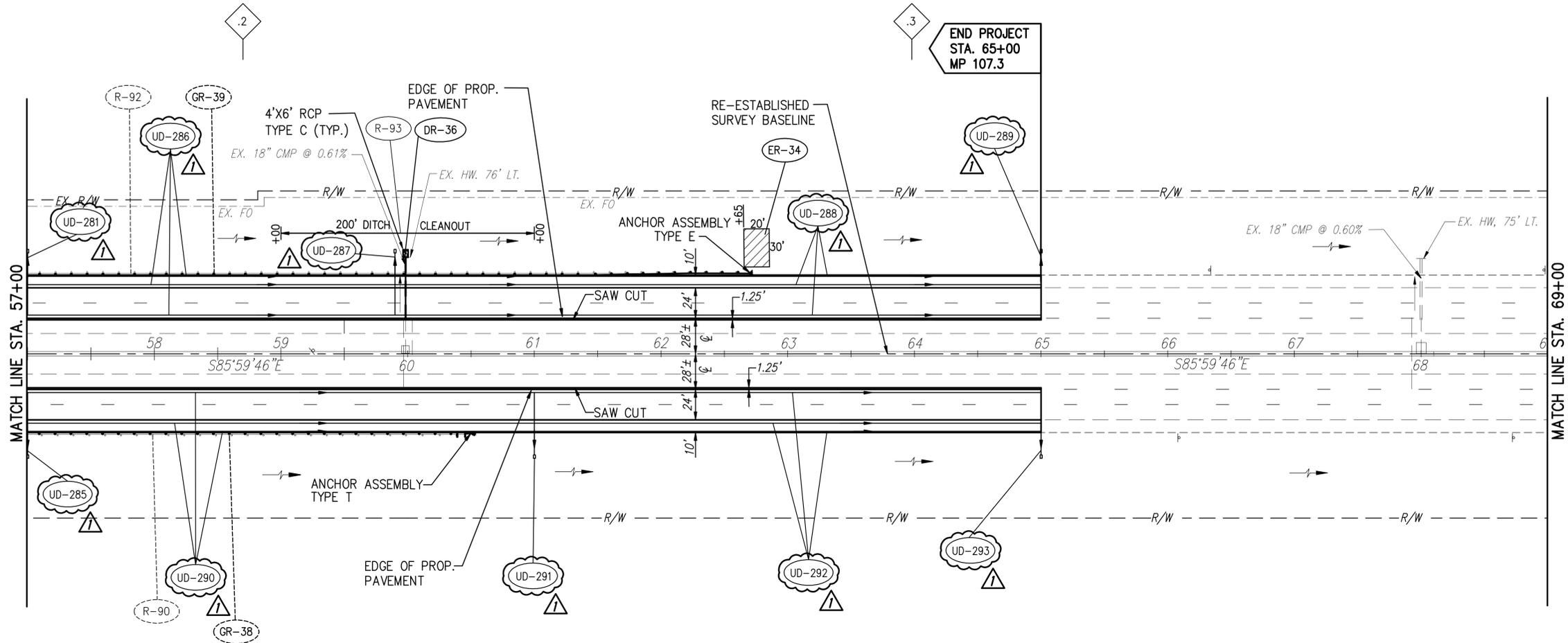


- 107 MILEPOST REFERENCE
- .0 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR TRANSITION TO APPROACH SLAB



DESIGNED BY: W.D.L. | CHECKED BY: []
 DATE: 7/23/2013 | DATE: []
 DRAWN BY: W.D.L. | REVISED BY: []
 DATE: 7/23/2013 | DATE: []
 CAD FILE NAME: 13476-ALL.DWG

ADDENDUM NO. 1	JDC 2/7/14
NO. REVISIONS	BY DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION	
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 45+00 TO 57+00	
CT Consultants <small>engineers architects planners</small>	
DESIGNED: W.D.B.	CHECKED: W.D.B. DATE: JULY 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B. SCALE: 1"=50'
CONTRACT 39-14-01 SHEET 160 OF 280	

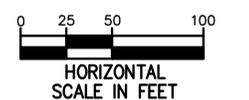
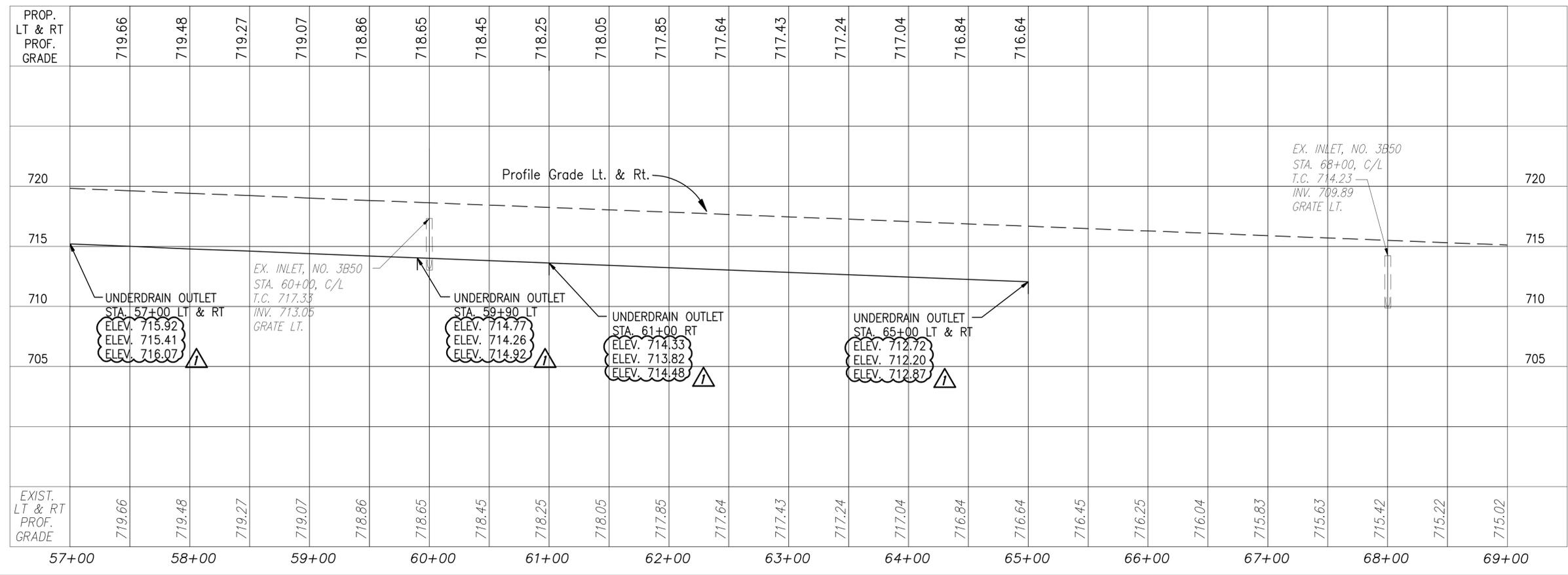


END PROJECT
STA. 65+00
MP 107.3

MATCH LINE STA. 57+00

MATCH LINE STA. 69+00

- 107 MILEPOST REFERENCE
- .2 TENTH OF MILE POST REFERENCE
- EROSION IMPROVEMENT AREA
SEE GENERAL NOTES SHEET 11
- RESURFACING LIMITS FOR
TRANSITION TO APPROACH SLAB



DESIGNED BY: W.D.L. | CHECKED BY: _____
 DATE: 7/23/2013 | DATE: _____
 DRAWN BY: W.D.L. | REVISED BY: _____
 DATE: 7/23/2013 | DATE: _____
 CAD FILE NAME: 13476-ALL.DWG

ADDENDUM NO. 1	JDC 2/7/14
NO. REVISIONS	BY DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION	
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION PLAN & PROFILE - 57+00 TO 69+00	
CT Consultants <small>engineers architects planners</small>	
DESIGNED: W.D.B.	CHECKED: W.D.B. DATE: JULY 2013
DRAWN: D.L.F.	IN CHARGE: W.D.B. SCALE: 1"=50'
CONTRACT 39-14-01 SHEET 161 OF 280	

NOTES:

ITEM SP519 – PATCHING CONCRETE STRUCTURES AND ITEM SP519A – PATCHING CONCRETE, BOX CULVERTS:

PHYSICAL INVENTORY OF MEASURED QUANTITIES OF DETERIORATION WAS PERFORMED IN JULY 2013. REPAIR AREAS HAVE BEEN OUTLINED WITH YELLOW PAINT. ESTIMATED QUANTITIES HAVE BEEN INCREASED BY 50% OVER MEASURED QUANTITIES FOR BIDDING PURPOSES. EXACT DIMENSIONS AND LOCATIONS OF PATCHES SHALL BE DETERMINED BY THE CHIEF ENGINEER IN THE FIELD.

ITEM SP519A – PATCHING CONCRETE, BOX CULVERTS:

REPAIR DETERIORATED CONCRETE ON THE EXISTING CULVERT WALLS AS PER SPECIAL PROVISION SP519A WITH THE FOLLOWING ADDITIONS:

PATCHING BELOW MUD LINE – WHERE CONCRETE PATCHING MAY EXTEND BELOW THE MUD LINE, REMOVE SILT AND GRAVEL FROM THE WALL TO VERIFY THE BOTTOM LIMIT OF REPAIR. USE THIS MATERIAL TO DIVERT STREAM WATER AWAY FROM THE REPAIR AREAS DURING PATCHING WORK AND FOR 24 HOURS (MINIMUM) AFTER PATCHING WORK HAS BEEN COMPLETED.

LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NEEDED TO COMPLETE PATCHING WORK AS SPECIFIED IN SP519A AND THIS NOTE ARE INCLUDED IN THE CONTRACT "SQUARE FEET" PRICE BID FOR ITEM SP519A – PATCHING CONCRETE, BOX CULVERTS.

ITEM 511 – CONCRETE, MISC: CULVERT TOP SLAB JOINT REPAIR

PAYMENT FOR FURNISHING ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NEEDED TO COMPLETE THE FOLLOWING TASKS SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE BID FOR ITEM 511 – CONCRETE, MISC: CULVERT TOP SLAB JOINT REPAIR: (SEE TOP SLAB REPAIR PLANS FOR DETERIORATED CONCRETE AREAS.)

- A.) REMOVE DETERIORATED CONCRETE ON THE UNDERSIDE OF THE EXISTING TOP SLAB AND PREPARE SURFACE PER SPECIAL PROVISION SP519.
- B.) DRILL DOWEL HOLES AND INSTALL DOWEL BARS WHERE SHOWN ON THE "TOP SLAB REPAIR PLAN."
- C.) INSTALL FORMWORK AT 6" BELOW THE UNDERSIDE OF THE EXISTING TOP SLAB.
- D.) PLACE CLASS S CONCRETE THROUGH OPENINGS IN ONE VERTICAL SIDE OF THE FORMWORK AND USE A VIBRATOR TO INSURE THAT IT FLOWS TO FILL THE VOID ENTIRELY.
- E.) REMOVE THE FORMS AFTER SEVEN DAYS OF CURING.
- F.) DRILL OUT THE TOP END CAPS TO MAKE EACH DRAIN HOLE FUNCTIONAL.

THE QUANTITIES LISTED BELOW FOR THE TOP SLAB JOINT REPAIR ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. ALL ITEMS ARE INCLUDED WITH THE LUMP SUM PRICE BID FOR ITEM 511 – CONCRETE, MISC; CULVERT TOP SLAB JOINT REPAIR.

AT TWO CELL 14'W x 8'H BOX CULVERT AT M.P. 102.2:

- 509 –EPOXY COATED REINFORCING STEEL – 1040 POUNDS
- 510 –DOWEL HOLES WITH NON-SHRINK, NON-METALLIC GROUT – 112 EACH
- 511 –CLASS S CONCRETE – 9 C.Y.

AT TWO CELL 18'W x 8'H BOX CULVERT AT M.P. 103.35:

- 509 –EPOXY COATED REINFORCING STEEL – 260 POUNDS
- 510 –DOWEL HOLES WITH NON-SHRINK, NON-METALLIC GROUT – 28 EACH
- 511 –CLASS S CONCRETE – 3 C.Y.

AT 12'W x 6'H BOX CULVERT AT M.P. 105.3:

- 509 –EPOXY COATED REINFORCING STEEL – 274 POUNDS
- 510 –DOWEL HOLES WITH NON-SHRINK, NON-METALLIC GROUT – 42 EACH
- 511 –CLASS S CONCRETE – 3 C.Y.

EXCAVATION IN STREAM/DITCH AREAS

ANY MATERIAL THAT IS EXCAVATED FROM THE STREAM/DITCH AREA TO INSTALL THE NEW HEADWALLS/WINGWALLS; AND IS NOT USED FOR BACKFILLING THE FOUNDATION EXCAVATION, SHALL NOT BE DUMPED INTO THE STREAM/DITCH. EXCESS MATERIAL SHALL BE REMOVED FROM THE PROJECT AREAS AS PER SP105.

ITEM SPECIAL – PIPE CLEANOUT

THIS WORK SHALL CONSIST OF REMOVING SEDIMENT AND DEBRIS FROM DESIGNATED BOX CULVERT CELLS AND LARGE DIAMETER CULVERT PIPES (30" AND GREATER) NOTED IN THE PLANS. ALL MATERIAL REMOVED SHALL BE CLEANED OUT TO THE SATISFACTION OF THE CHIEF ENGINEER.

CLEANOUT OF THE BOX OR PIPE SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL – PIPE CLEANOUT. THIS PRICE SHALL INCLUDE THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

A "FOOT" ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE STRUCTURE /CULVERT ESTIMATED QUANTITIES TABLE WHERE THE ABOVE NOTED WORK SHALL BE PERFORMED.

ITEM 837 – LINER PIPE, AS PER PLAN

- (24" FOR 30" CMP CULVERT AT M.P. 105.9)
- (60" FOR 72" CMP CULVERT AT M.P. 106.3)
- (66" FOR 78" CMP CULVERT AT M.P. 106.6)

SUPPLEMENTAL SPECIFICATION 837 LINER PIPE SHALL BE AMENDED AS FOLLOWS:

837.02 MATERIALS. THE LINER PIPE MATERIAL SHALL BE LIMITED TO 707.42, SS937 OR SS938.

837.03 INSTALLATION. INSTALLATION SHALL BE ADHERED TO WITH THE FOLLOWING ADDITIONS:

E. CONTRACTOR SHALL SUBMIT A WRITTEN INSTALLATION PROCEDURE FOR THE LINER PIPE FOR APPROVAL. THE CONTRACTOR SHALL ALSO PROVIDE: METHOD OF HOLDING THE LINER PIPE IN PLACE DURING THE GROUTING PROCEDURE TO INSURE THE LINER PIPE DOES NOT FLOAT; PROCEDURE FOR CONNECTING ALL LATERAL PIPES; A GROUT MIX DESIGN; THE GROUTING PROCEDURE SHALL BE APPROVED BY THE MANUFACTURE; THE CONTRACTOR SHALL SUPPLY AT LEAST FIVE VERIFIABLE PROJECTS WITH THE ENGINEER'S CONTACT NAME, ADDRESS AND PHONE NUMBER FOR EACH PROJECT WITH A SIMILAR SCOPE.

F. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE SPECIFIED PIPE WILL FIT INTO THE EXISTING CONDUIT AND VERIFY THE LENGTH PRIOR TO ORDERING THE LINER PIPE.

G. ALL EXISTING LATERAL PIPES OR UNDERDRAIN CONNECTIONS SHALL BE CONNECTED TO THE PROPOSED LINER PIPE. THESE CONNECTIONS MAY OR MAY NOT BE SHOWN OR SPECIFIED IN THE PLANS. THE CONTRACTOR SHALL VERIFY THE NUMBER, SIZE AND LOCATION OF ALL CONNECTING PIPES. LATERAL PIPES MAY NEED TO BE TRIMMED IN ORDER TO INSTALL THE LINER PIPE.

837.05 BASIS OF PAYMENT. PAYMENT FOR THE ACCEPTED QUANTITIES WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT REPRESENTS FULL COMPENSATION FOR ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND OTHER INCIDENTALS NECESSARY TO COMPLETE THE ITEM OF WORK DESCRIBED IN THE SUPPLEMENTAL SPECIFICATION 837 LINER PIPE AND ABOVE.

ITEM 837 – LINER PIPE, AS PER PLAN

CONNECTIONS TO EXISTING PIPES WILL BE REQUIRED AS DESCRIBED BELOW. THE COST FOR ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE CONNECTION TO EXISTING PIPES SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 837 – LINER PIPE, AS PER PLAN.

72" CMP AT MP 106.3 24" RCP WEST AT 79' +/- FROM SOUTH (EB) END



DESIGNED BY: J.P.R.	CHECKED BY:
DATE: 11/18/2013	DATE:
DRAWN BY: B.E.K.	REVISED BY:
DATE: 11/18/2013	DATE:
CAD FILE NAME: T3476-GNOTES.DWG	

ADDENDUM NO. 1	JDC	2/7/14
NO. REVISIONS	BY	DATE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION		
CULVERT MAINTENANCE STRUCTURE GENERAL NOTES		
 CT Consultants engineers architects planners 2200 Springdale Court, Akron, Ohio 44300 480.451.0000 www.ctconsultants.com		
DESIGNED: J.P.R.	CHECKED: W.D.B.	DATE: DEC, 2013
DRAWN: B.E.K.	IN CHARGE: W.D.B.	SCALE: 1"=50'
4/4 CONTRACT 39-14-01 SHEET 225 OF 280		