



PLAN REVIEW FORM

ODOT DISTRICT 6

DATE: Tuesday, August 7, 2007

TO:	Reviewer	Representing	Component/Comment
	Brian Tatman	ODOT-D6	Environmental
	Jon Adams	ODOT-D6	Hydraulics
	Mark Katona	ODOT-D6	MOT
	Jim Bischoff	City of Marion	MOT
	Dennis Sheets	ODOT-D6	Overall
	Qi Unterreiner	ODOT-D6	Pavement/Geotech
	John Maynard	ODOT-D6	ROW Cert. Complete
	Fay Taylor	ODOT-D6	Traffic Control
	Tom Makris	ODOT-D6	Structures
	Larry Shaw	URS-Coord for CSX	Railroad
	Rhonda Moore	Norfolk and Southern	Railroad
	Ruth Wiechman	ODOT-D6	Utilities

FROM: Thomas G. Makris, P.E.
 PROJECT: MAR-4D-0.70, PID 79938
 SUBJECT: Stage 3 Review

Do you have review comments? Yes No

If you checked "Yes" please provide comments on the plans, via e-mail, or on a separate sheet.
 If you checked "No" please sign and date this form and return it to me.

Is a compliance submission required? Yes No

Please respond by: Wednesday, September 5th, 2007

Signed: *Tom Makris* Date: 8-10-07

COMMENTS: All ODOT-D6 Reviewers, Please reference the PDP to determine if additional reviews need to be performed by Central Office or External Agencies. All Reviewers have been provided with a set of the Stage 3 Plans. Additional information can be found within the project file folder. Please, feel free to contact me via e-mail at tmakris@dot.state.oh.us or via telephone at 740.833.8084 if you have any questions, or need additional information.

*plan package scanned
 in I: drive/users/rmoad
 MAR. 4D-0.70*

Respectfully,
Thomas G. Makris

Thomas G. Makris, P.E.
 Project Manager
 ODOT District 6
 CC: Bruce Birch, Herb Ligocki, Rich Behrendt, Project File, Chrono File



RECEIVED

AUG 7 2007

August 6, 2007

Ohio Department of Transportation – District 6
400 East William Street
Delaware, Ohio 43015

Production Dept.

Attn: Mr. Tom Makris

RE: Stage 3 Plan Submission
MAR-4D-0.70
PID # 79938

Dear Mr. Makris,

Attached please find plans and supporting documents related to the Stage 3 Plan Submission for the aforementioned project. This project includes the rehabilitation of bridge numbers MAR-4D-0070 and MAR-95-1436 in the City of Marion. Included in this submission are:

1. 8 sets of bound, half-size Stage 3 Plans
2. 8 sets of bound, half-size copies for the Railroads (4 each)
3. 1 set of unbound half-size Stage 3 Plans
4. 2 copies of the Stage 3 Cost Estimate
5. Calculation sheets showing how quantities for deck concrete repair were determined
6. 1 copy of transmittal letters sent to affected utilities
7. Disposition of Stage 2 comments

Due to the cost sensitive quantities associated with variable and full depth concrete deck repair, we have included a spreadsheet showing how we arrived at the quantities for the MAR-95-1436 (Columbia Street) Bridge. The underside of the MAR-4D-0070 bridge was not visible and therefore not included.

Respectfully,

A handwritten signature in cursive script, appearing to read 'Bronson Funke'.

Bronson Funke, P.E.
Project Manager

c: File

Estimate MAR-4D-0.70

Estimated Cost: \$841,001.39

Contingency: 12.00%

Estimated Total: \$941,921.56

MAR-4D-0.70 MAR-95-14.36 PID 79938

Letting Date: 04/18/08

Spec Year: 05

Unit System: E

Work Type: BRIDGE REHABILITATION

Highway Type: 448

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: MARION

Estimate Type: Stage 3

Prepared by Dan Ficker (Roadway) Bronson Funke (Structure)

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
Group 0100: Roadway					
0006	202E30600	32.000	SY	\$12.00000	\$384.00
CONCRETE MEDIAN REMOVED					
0007	202E35100	75.000	FT	\$12.71863	\$953.90
PIPE REMOVED, 24" AND UNDER					
0008	202E58100	4.000	EACH	\$326.73361	\$1,306.93
CATCH BASIN REMOVED					
0009	202E70100	179.000	FT	\$20.26382	\$3,627.22
SPECIAL - PIPE CLEANOUT					
12" INGROUND DOWNSPOUT LATERAL (UNDER COLUMBIA ST BRIDGE)					
0010	609E54000	33.000	SY	\$50.00000	\$1,650.00
6" CONCRETE TRAFFIC ISLAND					
Total for Group 0100:					\$7,922.05
Group 0200: Erosion Control					
0011	832E10000	1.000	EACH	\$3,000.00000	\$3,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0012	832E20000	2,000.000	LS	\$1.00000	\$2,000.00
EROSION CONTROL					
Total for Group 0200:					\$5,000.00
Group 0300: Drainage					
0013	603E01800	75.000	FT	\$12.84836	\$963.63
8" CONDUIT, TYPE B					
0014	603E04400	24.000	FT	\$76.55619	\$1,837.35
12" CONDUIT, TYPE B					
0015	604E00400	4.000	EACH	\$2,416.32855	\$9,665.31
CATCH BASIN, NO. 3					
0016	604E09000	2.000	EACH	\$470.81487	\$941.63
CATCH BASIN ADJUSTED TO GRADE					
0018	604E34500	1.000	EACH	\$540.11109	\$540.11
MANHOLE ADJUSTED TO GRADE					
0019	604E34500	3.000	EACH	\$750.00000	\$2,250.00
MANHOLE ADJUSTED TO GRADE (SANITARY)					
Total for Group 0300:					\$16,198.03
Group 0400: Pavement					
0020	251E01000	105.000	SY	\$93.89938	\$9,859.43
PARTIAL DEPTH PAVEMENT REPAIR					
0021	254E01000	403.000	SY	\$7.55309	\$3,043.90
PAVEMENT PLANING, ASPHALT CONCRETE					
0022	302E46000	2.000	CY	\$70.00000	\$140.00
ASPHALT CONCRETE BASE, PG64-22 FOR PIPE RESTORATION					
0023	305E13000	8.000	SY	\$85.00000	\$680.00
9" CONCRETE BASE FOR PIPE RESTORATION - PROSPECT					
0024	407E10000	30.000	GAL	\$1.38720	\$41.62
TACK COAT					
0025	407E13900	133.000	GAL	\$1.20106	\$159.74
TACK COAT, 702.13					
0027	448E47020	151.000	CY	\$155.27428	\$23,446.42
ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0400: \$37,371.11

Group 0800: Traffic Control

0028	630E02100	15.000	FT	\$9.43190	\$141.48
GROUND MOUNTED SUPPORT, NO. 2 POST					
0029	630E80101	4.000	SF	\$31.69157	\$126.77
SIGN, FLAT SHEET, AS PER PLAN					
0030	646E10101	0.380	MILE	\$2,501.85076	\$950.70
LANE LINE, AS PER PLAN					
0031	646E10201	0.150	MILE	\$7,257.74944	\$1,088.66
CENTER LINE, AS PER PLAN					
0032	646E10701	188.000	FT	\$4.00000	\$752.00
CURB MARKING, AS PER PLAN					
0033	646E10301	105.000	FT	\$2.85546	\$299.82
CHANNELIZING LINE, AS PER PLAN					
0034	646E10401	46.000	FT	\$16.26549	\$748.21
STOP LINE, AS PER PLAN					
0035	646E10501	144.000	FT	\$6.33286	\$911.93
CROSSWALK LINE, AS PER PLAN					
0036	646E20301	6.000	EACH	\$162.72089	\$976.33
LANE ARROW, AS PER PLAN					

Total for Group 0800: \$5,995.90

Group 0900: Traffic Signals

0039	632E26500	3.000	EACH	\$1,012.24559	\$3,036.74
DETECTOR LOOP					
0040	632E65200	185.000	FT	\$1.50000	\$277.50
LOOP DETECTOR LEAD-IN CABLE					

Total for Group 0900: \$3,314.24

Group 1200: Maintenance of Traffic

0041	614E11100	25.000	HOUR	\$56.06034	\$1,401.51
LAW ENFORCEMENT OFFICER WITH PATROL CAR					

Total for Group 1200: \$1,401.51

Group 1400: Structure Repair (Bridge MAR-4D-0070)

0043	202E23501	156.000	SY	\$14.00000	\$2,184.00
WEARING COURSE REMOVED, AS PER PLAN					
0044	512E10100	2,252.000	SY	\$11.06029	\$24,907.77
SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)					
0048	516E43101	1.000	EACH	\$500.00000	\$500.00
ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE), AS PER PLAN					
0049	516E45305	10.000	EACH	\$250.00000	\$2,500.00
REFURBISH BEARING DEVICE, AS PER PLAN					
0050	518E62100	132.000	FT	\$40.00000	\$5,280.00
STRUCTURE DRAINAGE, MISC.:					
0052	519E11101	2,819.000	SF	\$20.00000	\$56,380.00
PATCHING CONCRETE STRUCTURE, AS PER PLAN					
0056	848E10001	2,638.000	SY	\$35.92191	\$94,762.00
MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN					
0057	848E20000	2,482.000	SY	\$22.73319	\$56,423.78
SURFACE PREPARATION USING HYDRODEMOLITION					
0058	848E50000	87.000	SY	\$57.90698	\$5,037.91
HAND CHIPPING					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	Description				
	Supplemental Description				
0059	848E50100	1.000	LS	\$5,000.00000	\$5,000.00
	TEST SLAB				
0060	848E50200	16.000	CY	\$350.00000	\$5,600.00
	FULL-DEPTH REPAIR				
0061	848E50320	2,482.000	SY	\$8.39109	\$20,826.69
	EXISTING CONCRETE OVERLAY REMOVED				
0062	848E50340	869.000	SY	\$8.00000	\$6,952.00
	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY				
0092	530E00200	1.000	LS	\$1,000.00000	\$1,000.00
	SPECIAL - STRUCTURE, MISC.:				
0098	530E00200	1.000	LS	\$1,500.00000	\$1,500.00
	SPECIAL - STRUCTURE, MISC.:				

Total for Group 1400: \$288,854.15

Group 1401: Structure Repair (Bridge MAR-95-1436)

0063	202E23501	267.000	SY	\$14.00000	\$3,738.00
	WEARING COURSE REMOVED, AS PER PLAN				
0068	512E10100	1,809.000	SY	\$10.68206	\$19,323.85
	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)				
0069	512E10600	12.000	FT	\$100.00000	\$1,200.00
	CONCRETE REPAIR BY EPOXY INJECTION				
0070	516E31000	80.000	FT	\$16.27516	\$1,302.01
	JOINT SEALER				
0071	518E43301	78.000	FT	\$110.00000	\$8,580.00
	6" PIPE DOWNSPOUT, INCLUDING SPECIALS, AS PER PLAN				
0072	518E51300	3.000	EACH	\$1,000.00000	\$3,000.00
	DOWNSPOUT MODIFICATION				
0073	518E62100	63.000	FT	\$100.00000	\$6,300.00
	STRUCTURE DRAINAGE, MISC.:				
0074	518E62100	172.000	FT	\$20.00000	\$3,440.00
	STRUCTURE DRAINAGE, MISC.:				
0075	519E11101	3,157.000	SF	\$20.00000	\$63,140.00
	PATCHING CONCRETE STRUCTURE, AS PER PLAN				
0076	607E39910	1,176.000	FT	\$50.00000	\$58,800.00
	SPECIAL - VANDAL PROTECTION FENCE, 8' STRAIGHT, COATED FABRIC				
0078	848E10001	2,930.000	SY	\$32.20352	\$94,356.31
	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN				
0079	848E20000	2,663.000	SY	\$22.73319	\$60,538.48
	SURFACE PREPARATION USING HYDRODEMOLITION				
0080	848E50000	199.000	SY	\$57.90698	\$11,523.49
	HAND CHIPPING				
0081	848E50100	1.000	LS	\$5,000.00000	\$5,000.00
	TEST SLAB				
0082	848E50200	38.000	CY	\$350.00000	\$13,300.00
	FULL-DEPTH REPAIR				
0083	848E50320	2,663.000	SY	\$8.39000	\$22,342.57
	EXISTING CONCRETE OVERLAY REMOVED				
0084	848E50340	1,989.000	SY	\$8.00000	\$15,912.00
	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY				
0097	530E00200	1.000	LS	\$3,500.00000	\$3,500.00
	SPECIAL - STRUCTURE, MISC.:				

Total for Group 1401: \$395,296.71

Group 9000: Incidentals

0085	100E99000	1.000	LS	\$10,000.00000	\$10,000.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<u>Description</u> <u>Supplemental Description</u>				
	SPECIAL - PREMIUM ON RAILROAD'S PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE				
0086	103E05000	1.000	LS	\$8,009.53700	\$8,009.54
	PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND				
0087	614E11000	1.000	LS	\$24,028.61100	\$24,028.61
	MAINTAINING TRAFFIC				
0088	619E16000	8.000	MNTH	\$1,200.00000	\$9,600.00
	FIELD OFFICE, TYPE A				
0089	623E10000	1.000	LS	\$8,009.53700	\$8,009.54
	CONSTRUCTION LAYOUT STAKES				
0090	624E10000	1.000	LS	\$20,000.00000	\$20,000.00
	MOBILIZATION				

Total for Group 9000: \$79,647.69



August 6, 2007

Ohio American Water
5481 Buenos Aires Boulevard
Westerville, Ohio 43081

Attn: Mr. Ross Archbold

RE: Stage 3 Plan Submission
MAR-4D-0.70
PID # 79938

Dear Mr. Archbold,

Attached please find two sets of Stage 3 (detailed design) plans for the aforementioned project in the City of Marion, Ohio for the Ohio Department of Transportation, District 6. The following summarizes our phone conversation on April 11, 2007:

1. We agreed that there should be no conflicts with existing water lines during construction. Only concern is construction equipment parked over water lines, but depth to waterline should be sufficient to handle normal construction equipment.
2. OAW wants to write a letter stating depths shown are based on information provided by OAW.

Please review the attached plans and respond with any further comments by September 30, 2007. . . If no further comment is necessary, please reply with a statement to that affect at bfunke@palmernet.com.

Thank you and please call if you have any questions or require more information.

Respectfully,

A handwritten signature in cursive script, appearing to read 'Bronson Funke'.

Bronson Funke, P.E.
Project Manager

c: File



August 6, 2007

Time Warner Cable
1266 Dublin Road
Columbus, OH 43216-2553

Attn: Mr. Terry Allen

RE: Stage 3 Plan Submittal
MAR-4D-0.70
PID # 79938
Bridge Rehabilitation Project – City of Marion, Ohio

Dear Mr. Rich

Attached please find two sets of Stage 3 (detailed design) plans for the aforementioned project in the City of Marion, Ohio for the Ohio Department of Transportation, District 6. Previous comments have been incorporated into the plans. Please review the attached plans and respond with additional comments by September 30, 2007. If no further comments are necessary, you may reply directly to me by email at bfunke@palmernet.com with a statement to that affect.

We currently have Kevin Rich listed in the plans as the construction contact. If the contact should be you, please let me know and we will update the plans.

Please call if you have any questions or require more information.

Respectfully,

A handwritten signature in cursive script that reads 'Bronson Funke'.

Bronson Funke, P.E.
Project Manager

c: File



August 6, 2007

Verizon
550 Leader Street
Marion, Ohio 43302

Attn: Mr. William Muether

RE: Stage 3 Plan Submission
MAR-4D-0.70
PID # 79938

Dear Mr. Muether

Attached please find two sets of Stage 3 (detailed design) plans for the aforementioned project in the City of Marion, Ohio for the Ohio Department of Transportation, District 6. We did receive your written reply (received November 13, 2006) to the Preliminary Engineering Study and have adjusted the location of your facilities as necessary.

Please review the attached plans and respond with any additional comments by September 30, 2007. If no further comment is necessary, please reply with a statement to that affect at bfunke@palmernet.com.

Please call if you have any questions or require more information.

Respectfully,

A handwritten signature in cursive script, appearing to read 'Bronson Funke'.

Bronson Funke, P.E.
Project Manager

c: File



August 6, 2007

Columbia Gas of Ohio
920 West Goodale Boulevard
Columbus, Ohio 43212

Attn: Ms. Tiffany Fritchley, PE

**RE: Stage 3 Plan Submission
MAR-4D-0.70
PID # 79938**

Dear Ms. Fritchley,

Attached please find two sets of Stage 3 (detailed design) plans for the aforementioned project in the City of Marion, Ohio for the Ohio Department of Transportation, District 6.

Please review the attached plans and respond with any further comments by September 30, 2007. .
If no further comment is necessary, please reply with a statement to that affect at bfunke@palmernet.com.

Please call if you have any questions or require more information.

Respectfully,

A handwritten signature in cursive script, appearing to read 'Bronson Funke'.

Bronson Funke, P.E.
Project Manager

c: File



August 6, 2007

Ohio Edison Company
1040 S. Prospect Street
Marion, Ohio 43302

Attn: Ms. Dawn Hicks

RE: Stage 3 Plan Submission
MAR-4D-0.70
PID # 79938

Dear Ms. Hicks

Attached please find two sets of Stage 3 (detailed design) plans for the aforementioned project in the City of Marion, Ohio for the Ohio Department of Transportation, District 6. Based on information provided by Ohio Edison, we have shown the vertical clearance measurements to the overhead power lines at the Prospect Street Bridge. Please review the attached plans and respond with any additional comments by September 30, 2007. If no further comment is necessary, please reply with a statement to that affect at bfunke@palmernet.com.

You are currently listed as the construction contact in the plans. If this needs to be changed, please let me know.

Please call if you have any questions or require more information.

Respectfully,

A handwritten signature in cursive script, appearing to read 'Bronson Funke'.

Bronson Funke, P.E.
Project Manager

c: File



August 6, 2007

Marion City WPC
233 West Center Street
Marion, Ohio 43301-1822

Attn: Mr. Jim Bischoff, PE

**RE: Stage 3 Plan Submission
MAR-4D-0.70
PID # 79938**

Dear Mr. Bischoff

Attached please find two sets of Stage 3 (detailed design) plans for the aforementioned project in the City of Marion, Ohio for the Ohio Department of Transportation, District 6. This plan set details proposed work to be done to the existing bridge downspouts and underground drainage lines.

Please review the attached plans and respond with any additional comments by September 30, 2007. If no further comment is necessary, please reply with a statement to that affect at bfunke@palmernet.com.

Please review the plans and contact us to discuss the need for further coordination.

Respectfully,

A handwritten signature in cursive script that reads 'Bronson Funke'.

Bronson Funke, P.E.
Project Manager

c: File

MAR-4D-0.70 / MAR-95-14.36 PID 79938
Innovative Contracting Report

Prepared by: Palmer Engineering, August 2007

This report was completed as requested by District 6 to determine if this project could benefit from the application of innovative contracting methods.

The project involves the rehabilitation of two bridges MAR-4D-0.7 and MAR-95-14.36, both bridges are located within the city limits of Marion, Ohio. The project cost is estimated at \$950,000. Traffic is to be detoured during construction, however the bridge closures will not be concurrent.

Based on the Innovative Contracting Matrix (see attached table), the acceptable alternative methods of contracting are: A+B, Incentive/Disincentive, and Window.

The A+B and Incentive/Disincentive methods of innovative contracting allow for incentive/disincentive payments as a way of influencing the contractor's performance. They are generally used on high profile and complex projects to keep traffic inconvenience and delays to a minimum.

The bridges will be closed to allow the contractor to work in an efficient manor during construction. The maintenance of traffic plans have been detailed and include TEM note 642-4. This note puts a time limitation on the closure of the bridge. All the critical components of the construction will be completed during the closure. The closure duration has been set at 10 calendar days per bridge. Since this is already a compressed duration closure, it is not anticipated that the contractor would be likely to reduce the duration. Therefore, A+B and Incentive/Disincentive would not be suitable for this contract.

The window method of innovative contracting would be best suited for this project. This method would restrict the contractor to a set number of calendar days. The window contract table would be as follows:

Description of Critical Work	Calendar Days to Complete
MAR-4D rehabilitation during closure	10
MAR-95 rehabilitation during closure	10

PROJECT CRITERIA

Interstate or Freeway	No
Urban area with high volume	No
Complete gap in significant highway system	No
Major reconstruction or rehab at congested location	No
Project requiring complete closure of the road	YES
MOTEC exception required	No
Significant impact on commercial business, school transportation or emergency response/access	No

INNOVATIVE CONTRACTING METHOD

SELECTION CRITERIA

PROJECT NOTES

INNOVATIVE CONTRACTING METHOD	SELECTION CRITERIA	PROJECT NOTES
A+B	Project has traffic restrictions, lane closures, or detours that result in high road user delay costs; project has safety concerns or significant negative impacts to local community; project is relatively free of utility conflicts, design uncertainties, or right of way issues; project has generated sufficient public interest; Department seeks contractor expertise to schedule and facilitate early completion.	Possible Project involves detours and is relatively free of utility conflicts and right of way issues. Contractor expertise is required to facilitate early completion.
Incentive/Disincentive	Project results in significant delay to the user; there is a good understanding of construction time needed.	Possible The closure of Mar 4D (Prospect St.) results in a significant delay to the user. There is a general understanding of the construction time needed however full depth bridge deck repairs may be found to be more extensive once the wearing surface is removed.
Lump Sum Incentive	High profile project having significant user delays; project will be difficult to complete within the incentive time.	No This is not a high profile project
Work Day	Number of work days known; project should be free from time delay issues; project should have tight time constraints; Not recommended for projects spanning winter shutdown.	No There is a potential for delay issues, see Incentive/Disincentive above.
Lane Value	Project of a complex nature with high traffic volume.	No Project is not complex and does not have high traffic volumes
Window	Lower profile project having some user delays; project has short duration construction; project completion date does not have to be tightly controlled; project has no incentive or disincentive; early fall completion dates recommended.	Possible Project meets all of the selection criteria

Estimated Full Depth Repair Quantities

(Columbia Bridge)

From field visit 07-24-2007

Description of Area	Area	Unsound Concrete	
Abutment - Pier 9	1	64 sqft	
Pier 9 - Pier 8	2	141 sqft	
Pier 8 - Pier 7	3	92 sqft	
Pier 7 - Pier 6	4	240 sqft	
Pier 6 - Pier 5	5	106 sqft	
Pier 5 - Pier 4 *	6	12 sqft	
Pier 4 - Pier 3 *	7	92 sqft	
Pier 3 - Pier 2	8	60 sqft	
Pier 2 - Pier 1	9	16 sqft	
Pier 1 - Abutment	10	332 sqft	
TOTAL FULL DEPTH AREA		1155 sqft	
Thickness of Deck		0.67 ft	8.00 in
Thickness of Conc. Overlay		0.10 ft	1.25 in
Total Thickness		0.77 ft	9.25 in
TOTAL FULL DEPTH VOLUME		890 cuft	33 cuyd
Estimating Factor		1.33	
ADJUSTED FULL DEPTH AREA		1536 sqft	
ADJUSTED FULL DEPTH VOLUME		44 cuyd	
Bridge Deck Length		594 ft	
Width of Deck		48 ft	
Area of Bridge Deck		28534 sqft	
Volume of Existing Bridge Deck		21995 cuft	
		815 cuyd	
PERCENT FULL DEPTH AREA		4.05%	
PERCENT FULL DEPTH VOLUME		4.05%	

* Difficult to determine condition of concrete above railroad tracks due to black soot stains

Estimated Variable Depth Repair Quantities

(Columbia Bridge)

From previous page:

Total Deck Thickness	0.77 ft	
Area of Bridge Deck	28534 sqft	
Volume of Existing Bridge Deck	21995 cuft	815 cuyd

Ground-penetrating radar revealed:

TOTAL PERCENT UNSOUND CONCRETE* 60%

From previous page:

PERCENT AREA FULL DEPTH 4.05%

PERCENT AREA VARIABLE DEPTH 55.95%

TOTAL VARIABLE DEPTH AREA 15965 sqft
TOTAL VARIABLE DEPTH VOLUME 148 cuyd

Thickness of Variable Depth Removal 0.25 ft 3 in

Estimating Factor 1.33

ADJUSTED VARIABLE DEPTH AREA 21234 sqft
ADJUSTED VARIABLE DEPTH VOLUME 197 cuyd

* A note in section 412 of the Bridge Design Manual indicates that decks shall be replaced instead of rehabilitated if the unsound and delaminated area is 50-60%

PERCENT VARIABLE DEPTH AREA 55.95%
PERCENT VARIABLE DEPTH VOLUME 18.15%

Summary:

Concrete Repair Quantities for Columbia Bridge	
Total Percent Unsound	60%
Total Adjusted Volume	240 cuyd
Total Full Depth Percent	4.05%
Adjusted Total Full Depth Volume	44 cuyd
Total Variable Depth Percent	55.95%
Adjusted Total Variable Depth Volume	197 cuyd

Dennis Sheets, Staff Specialist, District 6 (marked up set of plans attached):

Sheet 1:

- 1) SEPARATED is misspelled in the Design Designation identifying the RR crossings.
Will Comply.
- 2) Make the word CROSSINGS plural in the Design Designation.
Will Comply.
- 3) Revise NORFOLK AND WESTERN to NORFOLK SOUTHERN in the Design Designation.
Will Comply.
- 4) Under the Railroad Involvement block, revise the names to:
CSX TRANSPORTATION, INC.
NORFOLK SOUTHERN CORPORATION
Will Comply.
- 5) Add a Plans Certified signature block.
Will Comply.

Sheet 2:

- 1) Under the Columbia Street overpass, revise Norfolk & Western to NORFOLK SOUTHERN.
Will Comply.

Sheet 3:

- 1) References A and S should be the same thickness.
A comment from the Stage 1 Review requested the resurfacing to be 2 equal lifts of 448 surface course, for a total of 3". The resurfacing of the Columbia Street approaches must match the existing elevations, since the length of resurfacing is short, thus the 3" depth of pavement planning. We realize that planing 1/2" into the existing asphalt concrete base is not ideal.

Sheet 4:

- 1) The references on the right side of the Superelevated Section have been re-copied to the wrong place.
Will Comply.

Sheets PPI — PP3:

- 1) Add SR-4D to the center line label.
Will Comply.

Sheets PP4 — PP6:

- 1) Add SR-95 to the center line label.
Will Comply.

Brian Tatman, Environmental, District 6

1. A plan note that states the following should be added to the General Notes:

“No toxic or hazardous materials such as sealants, paint, solvents, cleaning agents, earthen materials, waste-water fuels or debris of any kind shall be discharged to any streams, drainage courses or bodies of water. All asphalt or concrete grindings, excess asphaltic or concrete materials or any other debris generated during resurfacing or other similar activities shall not be disposed of within a floodplain below the 100-year flood elevation. The contractor shall take all precautions necessary to prevent liquids used to repair, clean, seal, or treat any bridge structure (e.g. paint, sealer, solvent) from entering streams, wetlands or other “Waters of the United States” and take the appropriate actions in the event of a release.”

Will Comply.

Fay Taylor, Traffic Control, District 6

Sheet: PP3, TCI If loops will be replaced, but existing lead-in will be used, then add pay item Loop Detector Tie In.

We have added loop detector lead in cable to rewire the loops to the nearest pullbox and/or signal controller.

Sheet: TC 1 Pavement Marking Legend---Make all paint 646 Epoxy. See attachments.

Will Comply. Notes 342-4 and 342-5 will be added per the attachments.

Sheet: TC1, TC2 Sign, Flat Sheet---Bridge ID tags---Show these on the plan views.

Will Comply.

Mark Katona, Production MOT Reviewer, District 6

MOT Notes (Sheet 6)

- How were amounts arrived at for disincentives?

Work Zone user costs were computed for each detour, and the amount per day from that computation, rounded up to the nearest \$1,000, was used for the incentive/disincentive amount in the note

- Bring railroad note to the MOT note sheet

The railroad flagging notes will be added to the MOT notes

- Add TEM note 642-19

We question the applicability of this note, based on the designer notes in the TEM. Dust control is required for projects with earthwork, which there is none on this project. Additionally, the deck is being rehabilitated using hydro demolition. Please advise if this note is required, and how to estimate the water needs.

- How long is the closure?

We have revised the duration of the closure from 5 consecutive days for each bridge to 10 consecutive days. If required additional detours not to exceed 5 days in length and not within 5 days of each other may be used. We anticipate that the deck rehabilitation that requires closure can be completed in 10 days, weather permitting. Additional input from the District on the closures is requested.

- Where is the sequence of construction?

Sequence of construction will be added to the MOT notes.

- Innovative contracting needed — either A+B or incentive/disincentive.

Please see the attached discussion on innovative contracting methods.

MOT Detour (Sheet 7)

- Remove some of the B signs

Will Comply

- Part of the roadway for Columbia St. is marked as closed when it is actually open.

The portion marked as closed is adjacent the detour route. Columbia Street is closed atop the structure and retaining wall fill, while the detour is along the surface street to the north of the bridge. A detail will be added to clarify this area.

- These two detours are crowded together on one sheet. Place each one on its own sheet in a larger scale.

Will Comply

Kevin R. Fiant, P.E., D6 Structure Reviewer

MAR-4D-0.70; Prospect Street Overpass

1) I agree with the designer's proposal for cleaning/sealing the underside of the spalled box beam given pedestrian concerns and the difficulty with other methods of repair.

No action necessary.

2) Also agree with methodology and pay item for scupper cleaning.

The scope of bridge drainage repairs was changed in an on-site meeting with ODOT Project Manager Tom Makris. The joints between sections of downspout conduit should be sealed to prevent leakage.

3) Will areas under the structure require closure during repairs? This should be evaluated and addressed with stage 3 submittal.

The Contractor will be responsible for the protection and direction of vehicular and pedestrian traffic when repair work requires closure of parking areas and local streets below the bridge. A note will be added to the roadway plans that will state this responsibility.

4) Can Cleanouts be added to scupper downspouts on this structure to facilitate maintaining as is being done on the MAR-95 structure?

The existing downspouts have cleanout fittings, so there is no need to install new cleanouts.

Additional changes to the scope of bridge repairs were incorporated into the plans based on an on-site meeting with ODOT Project Manager Tom Makris:

- The elastomeric strip seal joints shall be cleaned, not replaced.*
- Plan notes will state that the City of Marion shall be responsible for the restoration of painted signs on the substructure disturbed by repair operations.*
- Patchwork on the safety curbs and parapets shall be extended onto the approaches.*

MAR-95-1436; Columbia Street Overpass

1) Agree with designer's recommendation for epoxy injection of crack on I-beam.

No action necessary.

2) Will areas under the structure require closure during repairs? This should be evaluated and addressed with stage 3 submittal.

The Contractor will be responsible for the protection and direction of vehicular and pedestrian traffic when repair work requires closure of parking areas and local streets below the bridge. A note will be added to the roadway plans that will state this responsibility.

Additional changes to the scope of bridge repairs were incorporated into the plans based on an on-site meeting with ODOT Project Manager Tom Makris:

- *The elastomeric strip seal joint at Pier 5 shall be cleaned, not replaced.*
- *The sliding plate joints at the abutments shall be cleaned and the joint sealer shall be replaced.*
- *Storm sewers that collect drainage from bridge downspouts will be replaced.*
- *New cleanouts shall be installed on all downspouts to remain.*
- *Estimates for full depth and partial depth deck repairs shall be included in the plans.*

Plan Comments

Sheet 1 - Add Standard Construction Drawings and Supplemental Specifications

Will Comply

Sheet 5 – Specify Datum

Will Comply. Datum is NAVD 88

Ruth Weichman, Utilities Coordinator, District 6

Sheet 5

Time Warner Cable: Contact was changed to Terry Allen, (614) 255-6349

Ohio American Water: Contact was changed to Don Scott (740) 383-0931

NO COMMENTS

Jon Adams, Hydraulics, District 6

Qi Unterreiner, Pavement/Geotech, District 6

John Maynard, Need ROW Certification

Tom Makris, Project Coordinator, District 6

Bruce Birch, RR coordination

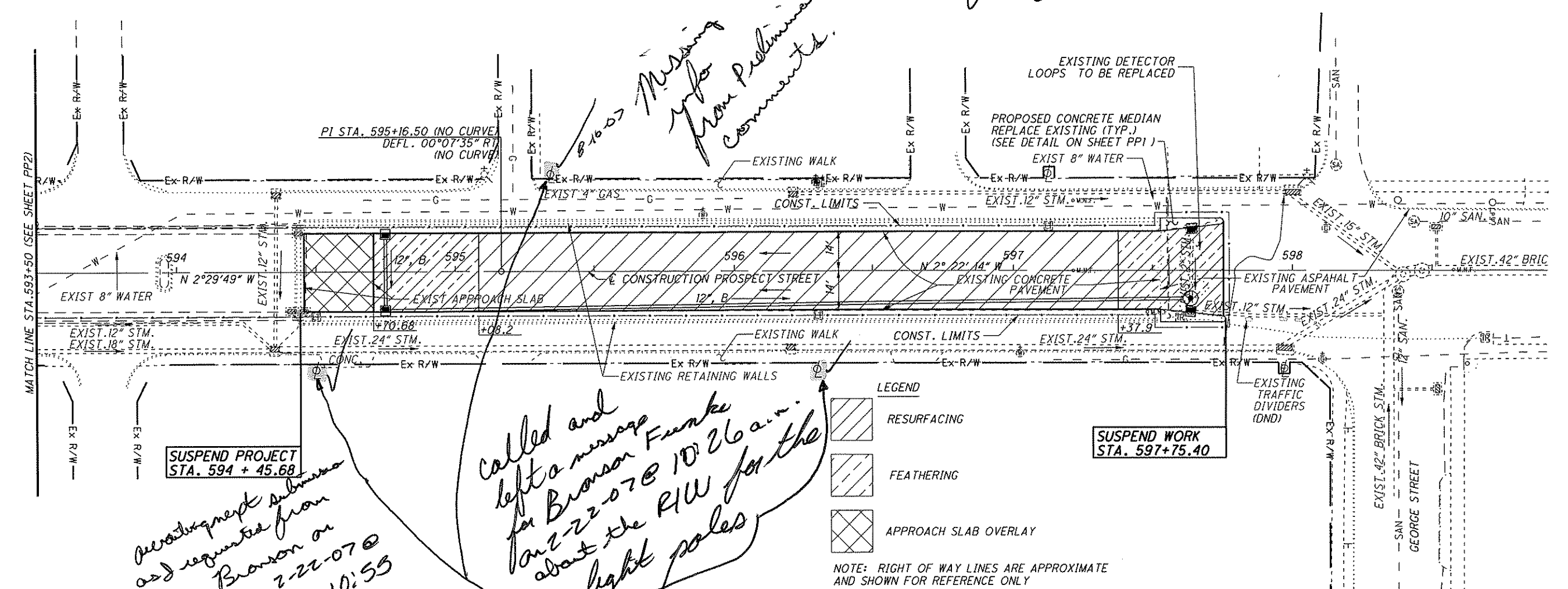
Jim Bischoff, City of Marion

V = 8-10-07 review

*8-10-07 Missing
 info from preliminary
 comments.*

*Revised request submitted
 and requested from
 Bronson on
 2-22-07 @
 10:53*

*Called and
 left a message
 for Bronson Franke
 on 2-22-07 @ 10:26 a.m.
 about the R/W for the
 light poles*

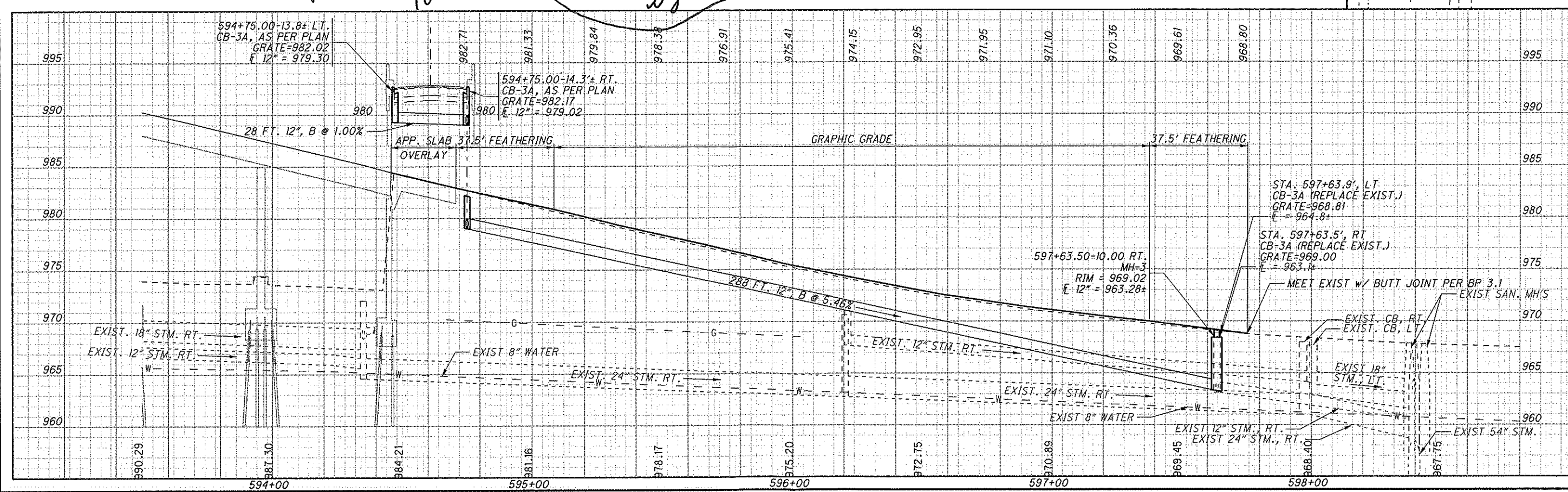


LEGEND

- RESURFACING
- FEATHERING
- APPROACH SLAB OVERLAY

NOTE: RIGHT OF WAY LINES ARE APPROXIMATE AND SHOWN FOR REFERENCE ONLY

**SUSPEND WORK
 STA. 597+75.40**

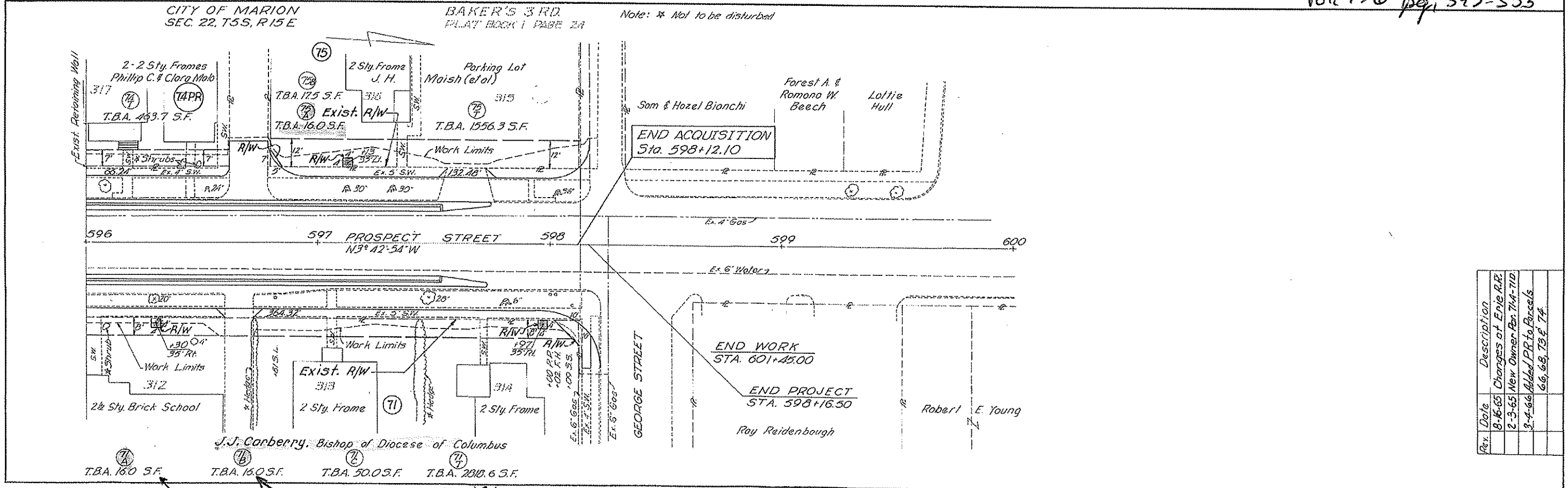
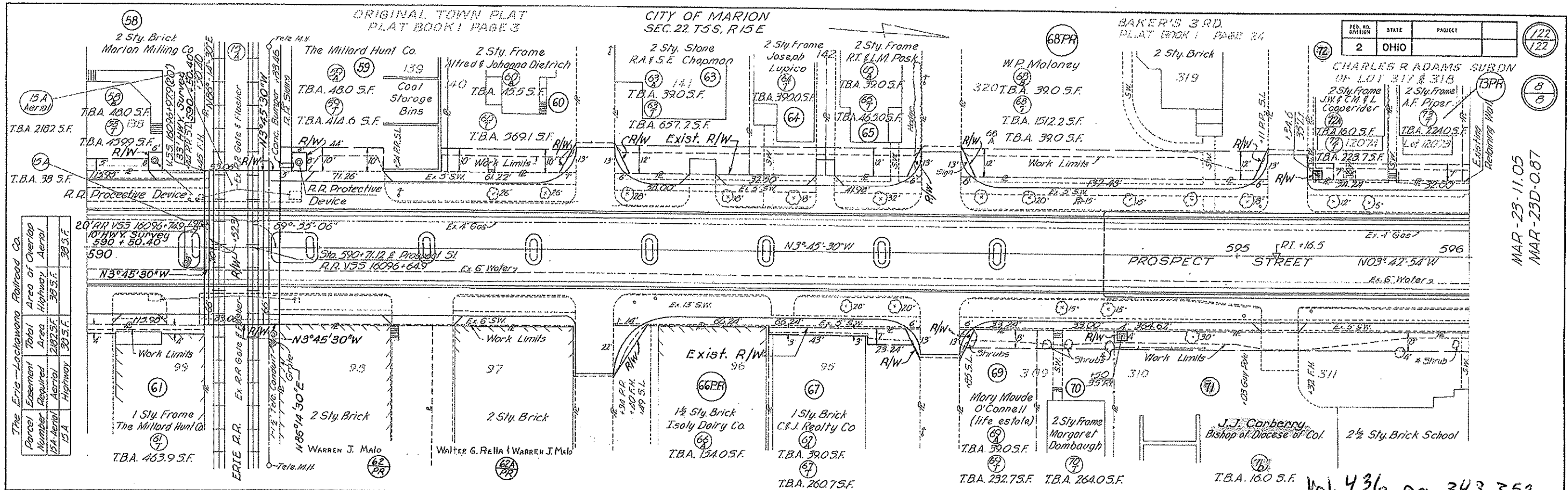


PAYMENT RECORD

5

S.R. 23/23DA Sec. 11,05/0.87 MARION County, Ohio Div. 6 Job No. 06592(0) Enc. No. Fed. No. All State Payment Auth.

Bill Number	Parcel Number	Payee On Bill	For	Amount	Forwarded To Columbus			State Warrant				Cancellation Or Remarks	
					Date	Returned	Resub.	Number	Received	Forwarded		Date	Reason
									Date	R.R. No			
06019	68PR, A, B, T	Wm. P. Moloney, et al.	Deposit	\$4,210.00	4-26-66			5777500	5-19-66	5-20-66	Godwin		Case No. 38097
060303	"	Thos. K. Jenkins	Title report	46.00	9-20-65			4815114	11-9-65	11-10-65	C.O.		
060215	"	W. L. Armstrong	Pre-Trial & Wit.	150.00	8-19-66			6394025	9-13-66	9-15-66	C.O.		
060216	"	Curtis French	Pre-Trial & Wit.	150.00	8-19-66			6394026	9-13-66	9-15-66	C.O.		
060532	"	Safety Cab Co.	Tranporting jury	9.00	8-24-66			6402419	9-16-66	9-20-66	C.O.		
060381	"	Wm. P. Moloney, et al.	al. Add. Deposit on Jury Verdict	6,540.00	9-1-66			6398533	9-15-66	9-16-66			J.E. Vol.422, Page 97
060862	"	Wm. P. Moloney	Court costs	431.43	12-21-67			5023161	1-10-68	1-12-68	C.O.		
61108	73PR, T	Lawrence H. Dorniny Julia J. Dorniny	R/W	1762.00	1-24-67			7173537	2-10-67	2-17-67	Cert	3-11-67	Val. 425 Pg. 554-6 3-11-67 Val. 425 Pg. 552-3 3-14-67 Val. 14 Pg. 523-4 (mtg Rel.)
060199	73-T	Thos. K. Jenkins	Title report	45.00	8-19-65			3412110	9-17-65	9-21-65	C.O.		
61658	73PR, T	Addie F. Piper, et al.	Deposit	1,110.00	6-30-66			6148611	8-2-66	8-5-66	Godwin		Case No. 38097
61857	73PR, T	Addie F. Piper	Add. Dep. on Settm.	400.00	6-8-67			7853143	6-27-67	6-28-67	C.O.		J.E. Vol.428 Pgs. 406
60862	73PR, T	Addie F. Piper	Court costs	54.98	12-21-67			5023161	1-10-68	1-12-68	C.O.		
60046	71, 71A, 71B, 71C, 71T, 66	Curtis French	Appraisal	\$200.00	7-11-67			4155987	8-1-67	8-2-67	C.O.		



Parcel Number	Area of Overlay	Total Area
15A Aerial	2187.5 S.F.	38 S.F.
15A	38 S.F.	38 S.F.
15A Aerial	2187.5 S.F.	38 S.F.
15A	38 S.F.	38 S.F.

Rev.	Date	Description
1	8-16-65	Changes of Erie R.R.
2	2-9-65	New Owner Plan 714-710
3	3-4-66	Added P.R. to Parcels 66, 68, 73 & 74

Vol. 436 pg. 343-353 1-25-68

PROSPECT STREET RIGHT OF WAY Sta 590 to Sta. 600



PLAN REVIEW FORM

ODOT DISTRICT 6

DATE: Tuesday, January 16th, 2007

TO:

Reviewer	Representing	Component
Brian Tatman	ODOT-D6	Environmental
Jon Adams	ODOT-D6	Hydraulics
Mark Katona	ODOT-D6	MOT
Jim Bischoff	City of Marion	MOT
Dennis Sheets	ODOT-D6	Overall
Qi Unterreiner	ODOT-D6	Pavement/Geotech
John Maynard	ODOT-D6	Need ROW Certification
Fay Taylor	ODOT-D6	Traffic Control
Tom Makris	ODOT-D6	Structures
Bruce Birch	ODOT-D6	Railroad Coordination
Ruth Wiechman	ODOT-D6	Utilities

FROM: Thomas G. Makris, P.E.
 PROJECT: MAR-4D-0.70, PID 79938
 SUBJECT: Stage 1 Submittal

Do you have review comments?

Yes

No

If you checked "Yes" please provide comments on the plans, via e-mail, or on a separate sheet.
 If you checked "No" please sign and date this form and return it to me.

Is a compliance submission required?

Yes

No

Please respond by: Tuesday, February 20th, 2007

Signed: *Tom Makris*

Date: 2-20-07

COMMENTS: All ODOT-D6 Reviewers, Please reference the PDP to determine if additional reviews need to be performed by Central Office or External Agencies. All Reviewers have been provided with a set of the Stage PE Plans. Additional information can be found within the project file folder. Please, feel free to contact me via e-mail at tmakris@dot.state.oh.us or via telephone at 740.833.8084 if you have any questions, or need additional information.

Respectfully,

Thomas G. Makris

Thomas G. Makris, P.E.
 Project Manager
 ODOT District 6

C: Project File, Bruce Birch, Herb Ligocki, John Maynard,
 Project File, Chrono File



RECEIVED

January 11, 2007

Ohio Department of Transportation – District 6
400 East William Street
Delaware, Ohio 43015

JAN 12 2007
197
Production Dept.

Attn: Mr. Tom Makris

RE: Stage 1 Plan Submission
MAR-4D-0.70
PID # 79938

Dear Mr. Makris,

Attached please find plans and supporting documents related to the Stage 1 Plan Submission for the aforementioned project. This project includes the rehabilitation of bridge numbers MAR-4D-0070 and MAR-95-1436 in the City of Marion. Included in this submission are:

1. 8 sets of bound, half-size Stage 1 Plans
2. 1 set of unbound half-size Stage 1 Plans
3. 2 copies of the Stage 1 Cost Estimate
4. Bridge deck drainage narrative and calculations
5. 1 copy of transmittal letters sent to affected utilities
6. PE Study comment response table
7. 1 copy of Airway/Highway Clearance Analysis
8. Design Exception request for SSD on Prospect Street

Also included with this transmittal letter is a status description of various plan related items required as per Section 1403.7.3 of the L&D Manual Volume III.

Respectfully,

Bronson Funke, P.E.
Project Manager

c: File

Following is a description of Stage 1 Plan Submission required items as per Section 1403.7.3 of the L&D Manual Volume 3:

1. 1403.7.3 #15 – Conceptual Maintenance of Traffic

The maintenance of traffic scheme proposed in the PE Study is part-width using barrels. This scheme will not require the use of temporary signals. This plan submission includes phase sketches detailing this scheme. It should be noted that the City of Marion indicated that short-term closures of these bridges would be acceptable. As per our discussions with the City, these closures would be limited to less than one month's duration maximum. It would be our preference, both to ease construction and improve the quality of the final product, to perform the overlay work under a road closure. However, the time frame limit is of some concern. While deck overlays have been completed within similar time frames on other projects, the subject bridges here are relatively long, have existing overlays which will need to be removed, and will require partial and full-depth repairs.

We request the District, as part of the Stage 1 plan review, to consider the possibility of road closures to perform the scoped work.

2. 1403.7.3 #21 – Design Exception

A design exception request has been prepared for Stopping Sight Distance on one approach to the Prospect Street Bridge near the signal at Center Street. Accident data is not yet available to complete the design exception, so this submission should be considered a draft copy. Please review the design exception and comment accordingly. Also, please provide accident data to us for completion of the exception.

3. 1403.7.3 #25 – Drainage Calculations

A narrative describing our findings, recommendations, and calculations concerning bridge deck drainage is included with the transmittal letter under a different heading.

4. 1403.7.3 #33 – Right of Way Encroachments

There are no right of way encroachments or right of way takes associated with or required by this project.

5. 1403.7.3 #35 – Utility Conflicts

Currently, based on available information and discussions with utility representatives, we foresee no major utility conflicts. Minor conflicts are

present with power lines, and cable/telephone lines on poles underneath and above both bridges. We have discussed these potential conflicts with the appropriate utility.

There are primary power lines in alley right of way owned by Ohio Edison crossing above the Prospect Street bridge. We have shown these lines in the plans and will be including a vertical clearance measurement once it becomes available. It will not be necessary to move these lines but it will likely be necessary for the contract to put safety protections in place. Further clarification of our involvement with this utility line will be done as part of the Stage 1 plan review.

Cable/telephone and power lines below the Columbia Street bridge will also require protection measures during construction.

6. 1403.7.3 #38 – Railroad Correspondence

As per the Scope of Services and discussions with the District, railroad correspondence is being handled internally by District 6.

Comment Source	Sheet Name	Comment #	Comment	Disposition	Remark
Environmental Brian Tatman 12/06/2006		1	ESA could be an issue if we begin deep excavation due to leaking underground storage tanks in the area.	N/A	
Hydraulics Jon R. Adams 11/30/2006		2	Provide spread calculations to verify the scuppers are warranted on the bridge. Can we take all of the drainage to the ends of the bridge?	Drainage calculations and narrative of findings included with Part 1 plans	Modifications to the drainage system have been proposed
City of Marion Jim Bischoff 11/6/2006		3	The access roads under the Prospect Street overpass should not be affected during construction.	Noted	Access Roads should be able to be maintained as open.
City of Marion Jim Bischoff 11/6/2006		4	There could be substantial amounts of full depth deck replacement.	Noted	
Dennis Sheets 11/7/2006	1: Title Sheet	5	Add the Federal Number, E051(291) to the upper right.	Complied	
	1: Title Sheet	6	Remove the Prima Facie note.	Complied	
	2: Typical Sections	7	Add a 1.25" course of Asphalt Concrete, Intermediate Course, Type1. If another course is used, ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE at 0.04 Gal/SY is needed between the two courses.	Complied	
	Plan and Profile	8	Show Legend on all sheets	Complied	
	Plan and Profile	9	Show Begin, Suspend, Resume, and End Projects and Begin and End Work.	Complied	

Traffic Control Fay Taylor 11/2/2006		10	Adapt the proposed bridge marker sign to this project.	Complied	
Structures Bob Taylor 12/1/2006	PES Page 8 MAR-95-1436 Columbia Street	11	MAR-95-1436: Recommended Repair Scope approved	No Action Required	
	PES Page 24 MAR-4D-0070 Prospect Street	12	Do not replace the deck. Remove the existing wearing surface with hydrodemolition, apply a microsilica concrete overlay, and replace the expansion joints.	Complied	Overlay will be detailed for Stage 1 plans.
	PES Page 24 MAR-4D-0070 Prospect Street	13	Do not replace the parapets and safety curb, patch and seal only.	Complied	Patching will be proposed on the Stage 1 plans.
	PES Page 24 MAR-4D-0070 Prospect Street	14	Do not seal the piers and abutment breastwalls and wingwalls.	Complied	
	PES Page 24 MAR-4D-0070 Prospect Street	15	MAR-4D-0070: Repair Scope modified and approved	No Action Required	
	PES Bridge Inspection	16	ODOT Ratings suggested	Revised ratings noted and included	

12/11/2006	Report PES Page 9 MAR-4D- 0070 Prospect Street	17	Prepare the design exception for the Stopping Sight Distance	with file PE Study Complied	
12/11/2006	PES Page 9 MAR-4D- 0070 Prospect Street	18	Do not seal the piers.	Complied	
Structures Tom Makris 11/20/2006	General	19	Replacement of the approach slabs and the existing parapet was possible based on the deck condition survey. What was the overall condition of the approach slabs and parapet?	Approach slabs fair, parapets are poor to fair	Approach slabs will be overlaid with MSCO, parapets will be patched
	General	20	Determine if Vandal Protection Fence is required.	MAR-4D-0070: Waiting MAR-95-1436: Complied	VPF was add to MAR-95-1436 (Columbia Street) and ill waiting MAR-4D-0070 (Prospect Street)
	General	21	Check the existing crash walls under MAR-95-1436.	Complied	Crash wall modifications will not be done in this project
12/18/2006	General	21a	The crash wall work for Columbia Street bridge (MAR-95-1436) will be performed at a later date.	See above	
11/20/2006	1: Title Sheet	22	NOI (Notice of Intent) will not be	Complied	

			required. The title sheet should have the marked notes added.			
	Schematic Plan	23	Provide a Schematic Plan next submission.		Complied	
	MAR-4D-0700 S1: Site Plan	24	State the disposition of all utility lines. (BDM, 201.3). State whether they are to remain in place, be relocated or removed by whom.		Complied	
	MAR-4D-0700 S1: Site Plan	25	In the title block show the county and bridge limits.		Complied	
	MAR-4D-0700 S1: Site Plan	26	Include the wearing surface in the proposed structure block.		Complied	
	MAR-4D-0700 S1: Site Plan	27	Will the 1 1/4" thickness remove the entire overlay due to any variability?		No, original overlay has some variable depth.	Cores will be proposed in Part 2 to determine existing thickness.
	MAR-4D-0700 S2: Site Plan	28	Will the piers be sealed with epoxy-urethane?		No Action Required	See Comment # 14 and 18
	MAR-4D-0700 S2: Site Plan	29	Include the county and the correct bridge limits within the appropriate sheet border block.		Complied	
	MAR-95-1436 S5: Site Plan	30	State the disposition of all utility lines. (BDM, 201.3)		Complied	
	MAR-95-1436 S5: Site Plan	31	Include the county and the correct bridge limits within the appropriate sheet border block.		Complied	

	MAR-95-1436 S5: Site Plan	32	Include the wearing surface in the proposed structure block.	Complied	
	MAR-95-1436 S5: Site Plan	33	In the sheet border block, show the correct railroads, is it C&O or CSX? Change N&W to N & S (Northolk and Southern). Make these changes to all sheet borders.	Complied	
	MAR-95-1436 S5: Site Plan	34	Show the north arrow in plan view.	Complied	
	MAR-95-1436 S5: Site Plan	35	Will the piers be sealed with epoxy-urethane?	No Action Required	This is not recommended in our repair scope.
Project Plans Author Unknown	MAR-4D-0700 S2: Site Plan	36	Scope includes a SWPP, Project Site Plan (pg 7)	Rejected	See Comment #36a
Structures Tom Makris	MAR-4D-0700 S2: Site Plan	36a	The Project Site Plan is not necessary since it is a maintenance project.	Complied	
Project Plans Author Unknown	MAR-95-1436 S6: Site Plan	37	Based on the deck survey condition: Replace existing approach slabs with full width slabs and the same concrete type as the deck and completely replace the existing parapet.	Rejected	Based on deck condition, an overlay was proposed.



January 11, 2007

Ohio Department of Transportation – District 6
400 East William Street
Delaware, Ohio 43015
Attn: Mr. Tom Makris

Re: Airway/Highway Clearance Analysis
MAR-4D-0.70
PID: 79938

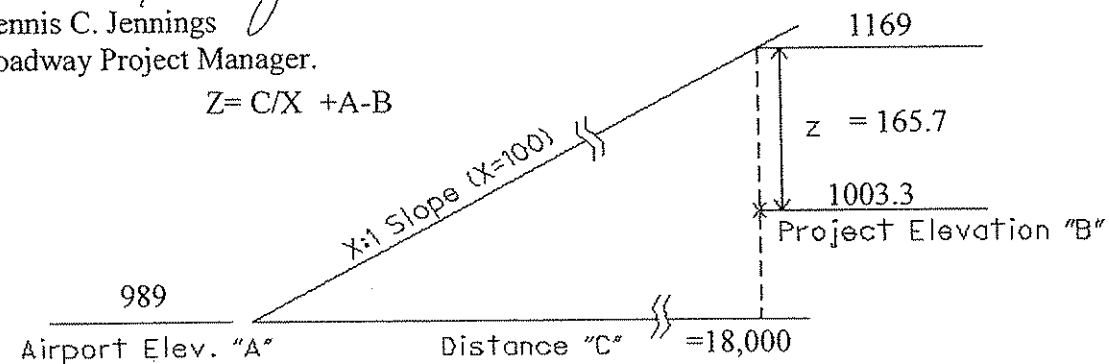
Dear Mr. Makris

We have reviewed the above mentioned project and have determined that the project **will not** encroach into the (X:1) notification surface. This determination is based on an airport elevation of 989 feet, a project elevation of 1003.3 feet, with a distance of 18,000 feet between the airport and the project locations. The attached diagram will provide a detailed analysis of the study. The study has also determined that a height of 165.7 feet exists between the (X:1) notification surface and the project. Therefore, based on this height and the heights from Figure 1404-3, plan note G119B **will not** be required.

Respectfully,

Dennis C. Jennings
Roadway Project Manager.

$$Z = C/X + A - B$$



- X:1 Notification Slope
- A – Airport Elevation
- B – Project Elevation/Construction Equipment/Temporary Structures
- B – Project Elevation/Construction Equipment/Temporary Structures
- C – Distance between Project and Airport
- **Z – +Z is amount of Clearance
- Z will require Notification *

*This number shall be inserted into Plan Note G119A, G119B, or G119C.

** These clearances should be calculated at critical points for projects of considerable length and variable heights. (i.e. closest point, highest point, etc.).

BRIDGE DECK DRAINAGE

MAR-4D-0.70

PID# 79938

Bridge Nos. MAR-4D-0070 & MAR-95-1436

Comments from the PE Study requested an investigation into bridge deck drainage and verification of the need for scuppers on the bridge decks. We have performed these calculations (attached) and revised the deck drainage scheme accordingly. Our findings and proposals for each bridge are described further below.

BRIDGE NO MAR-4D-0070

Drainage calculations show that the scuppers can be removed from the bridge. To do this will require installation of catch basins at the ends of the approach slabs to intercept deck drainage. Plans show installation of these catch basins and a 500' long 12" pipe that ties the new catch basins to the existing basins/storm sewer system at the north and south ends of the structure. Installation of the 12" pipe will require removal of concrete pavement. This pipe is necessary due to the presence of the retaining walls along both approaches.

Deck drainage that was originally outletting through the bridge scuppers will now be directed to the storm sewer system at either end of the bridge. This will not result in an increase in storm sewer flow since the scuppers were originally tied in to the storm sewer system. Plugging of the scuppers should improve drainage conditions and extend the service life of the deck and overlay. It will also preclude the need to periodically clean the scuppers.

The existing scuppers on the deck will be plugged with concrete overlay material.

BRIDGE NO MAR-95-1436

Drainage calculations indicate that scuppers on one half of this bridge can be removed. We have not revised the plans to include this change, but ask the District to review and consider this approach. Eliminating half of the scuppers will reduce the amount of cleaning necessary to allow the scuppers to function normally and improve the service life of the deck and overlay.

MAR-4D-0070
Prospect Street

BRIDGE DECK DRAIN DESIGN SPACING
(Based on HEC-22, November, 1996)

WAH
1/9/2007

Tributary Width - 1	17.00 ft
Tributary Width - 2	17.00 ft
Manning Coef- n	0.0150
Grate Width	1.4 ft
Grate Length	2.5 ft
Rain Intensity	4.50 in/hr

MAXIMUM SPREAD = 5.6 ft
(without considering local depression @ drain)

ALLOWABLE SPREAD = 8 FT OK

Prospect Street South

STA	AREA (ft ²)	CROSS SLOPE (ft/ft)	LONG. SLOPE (ft/ft)	RUNOFF COEF	DEPTH (ft)	SPREAD (ft)	FLOW INTERCEPT (ft ³ /s)	FLOW BYPASS (ft ³ /s)	V (ft/s)	Rs	E0	E
Begin Drainage Area								0.0000				
590+26								0.0000				
589+00	2142.00	0.01563	0.0352	0.9	0.056	3.564	0.2008	0.0000	2.023	0.193	0.735	0.786
Check Spread								0.2008				
587+00	3400.00	0.01563	0.0800	0.9	0.068	4.363	0.5196	0.0000	3.493	0.082	0.643	0.672
Check Spread								0.5196				
End of Bridge								0.6025				
586+48	884.51	0.01563	0.0800	0.9	0.072	4.612	0.6025	0.0000	3.625	0.077	0.618	0.648
Check Spread								0.6025				
586+20	475.49	0.01563	0.0736	0.9	0.075	4.812	0.6471	0.4083	3.577	0.079	0.599	0.631
Catch Basin								0.4083				
585+00	2040.00	0.01563	0.0352	0.9	0.074	4.740	0.4300	0.0000	2.449	0.145	0.606	0.663
Check Spread								0.4300				
584+54	782.00	0.01563	0.0205	0.9	0.087	5.565	0.5033	0.0000	2.080	0.185	0.538	0.623
Check Spread								0.5033				
584+53	17.00	0.01563	0.0202	0.9	0.087	5.588	0.5049	0.3142	2.070	0.186	0.536	0.622
Catch Basin								0.3142				

Prospect Street North

STA	AREA (ft ²)	CROSS SLOPE (ft/ft)	LONG. SLOPE (ft/ft)	RUNOFF COEF	DEPTH (ft)	SPREAD (ft)	FLOW INTERCEPT (ft ³ /s)	FLOW BYPASS (ft ³ /s)	V (ft/s)	Rs	E0	E
Begin Drainage Area								0.0000				
590+26								0.0000				
591+00	1258.00	0.01563	0.0208	0.9	0.050	3.222	0.1179	0.0000	1.454	0.302	0.780	0.847
Check Spread								0.1179				
592+00	1700.00	0.01563	0.0488	0.9	0.059	3.784	0.2773	0.0000	2.480	0.142	0.707	0.749
Check Spread								0.2773				
594+00	3400.00	0.01563	0.0600	0.9	0.076	4.848	0.5961	0.0000	3.246	0.093	0.596	0.634
Check Spread								0.5961				
End of Bridge								0.6689				
594+46	776.56	0.01563	0.0600	0.9	0.079	5.062	0.6689	0.0000	3.342	0.088	0.577	0.615
Catch Basin								0.0000				
594+75	498.44	0.01563	0.0600	0.9	0.081	5.191	0.7156	0.4321	3.399	0.086	0.567	0.604
Catch Basin								0.4321				
595+80	1785.00	0.01563	0.0600	0.9	0.068	4.366	0.4508	0.0000	3.027	0.104	0.642	0.680
Check Spread								0.4508				
595+85	85.00	0.01563	0.0589	0.9	0.069	4.411	0.4588	0.3100	3.018	0.104	0.638	0.676
Catch Basin								0.3100				

Deck Drains.xls

No Drains



STORM SEWER SYSTEM

PID : 79938 Date : 01/09/2007 Project : MAR-4D-070 Location : PROSPECT STREET REAR (SOUTH) APPROACH Designer : DPF

Description : NEW STORM SEWER and CB-3A JUST OFF BRIDGE

Rainfall Area: C Just Full Capacity Frequency (yrs.): 10 Hydraulic Gradient Frequency (yrs.): 25

Minimum Pipe Size : 12.00 Tailwater Elevation (ft.): 0.00

JUNCTION STATION		ΔAREA	ΔCA	BEGIN	RAINFALL	DISCHARGE	PIPE	F/I/L PIPE		MEAN	JUST FULL	FRICT	HYGR EL.	COVER	COVER	COVER	INLET TYPE				
From	To	Σ AREA (acres)	Σ CA	TIME (min.)	INTENSITY (10 yrs.)(25 yrs.)	(cfs.) (10 yrs.)(25 yrs.)	DIAM. (in.)	LENGTH (ft.)	SLOPE (ft./ft.)	IN / OUT (ft.)	VEL (fps.)	CAPACITY (cfs.)	SLOPE (ft./ft.)	IN / OUT (ft.)	IN / OUT (ft.)	MINUS HY GR	MINUS CROWN	MANNING'S 'n'			
1	2	586+20	0.16	0.14	10.00	5.30	6.45	0.8	0.9	12	28.0	0.0100	979.00	3.24	3.32	0.0009	979.45	981.74	2.29	1.74	CB 3A
		586+20	0.16	0.14							978.72				979.42	981.73				0.015	
2	3	586+20	0.16	0.14	10.14	5.27	6.35	1.5	1.8	12	157.0	0.0570	978.72	7.37	7.93	0.0034	979.06	981.73	2.67	2.01	CB 3A
		584+63	0.32	0.28							969.77				970.56	974.71				0.015	
3	4	584+63	0.12	0.11	10.50	5.19	6.34	2.0	2.5	12	20.0	0.0500	969.77	7.64	7.43	0.0065	970.19	974.71	4.52	3.94	MH 3
		584+482	0.44	0.39							968.77				969.61	974.08				0.015	



STORM SEWER SYSTEM

PID : 79938 Date : 01/09/2007 Project : MAR-4D-070 Location : PROSPECT STREET FWD (NORTH) APPROACH Designer : DPF

Description : NEW STORM SEWER and CB-3A JUST OFF BRIDGE

Hydraulic Gradient Frequency (yrs.) : 25

Rainfall Area: C Just Full Capacity Frequency (yrs.) : 10

Minimum Pipe Size : 12.00 Tailwater Elevation (ft.): 0.00

JUNCTION	STATION	Δ AREA	Δ CA	BEGIN TIME	RAINFALL INTENSITY	DISCHARGE	PIPE DIAM.	LENGTH	SLOPE	F/L PIPE IN / OUT	MEAN VEL	JUST FULL CAPACITY	FRICT HYDREL.	COVER IN / OUT	COVER MINUS HY GR	COVER MINUS CROWN	INLET TYPE			
From To		Σ (acres)	Σ	(min.)	(10 yrs.) (25 yrs.)	(cfs.) (10 yrs.) (25 yrs.)	(in.)	(ft.)	(ft./ft.)	(ft.)	(fps.)	(cfs.)	(ft.)	(ft.)	(ft.)	'n'				
1	2	0.18	0.16	10.00	5.30	6.45	0.8	1.0	12	28.0	0.0100	979.30	3.35	3.32	0.0011	979.76	982.02	2.26	1.72	CB 3A
	begin	0.18	0.16									979.02				979.73	982.17			0.015
2	3	0.18	0.16	10.14	5.27	6.28	1.7	2.0	12	288.0	0.0547	979.02	7.49	7.77	0.0041	979.38	982.17	2.79	2.15	CB 3A
	begin	0.35	0.32									963.28				964.08	969.02			0.015
3	4	0.23	0.20	10.78	5.14	6.26	2.7	3.2	12	20.0	0.0350	963.28	7.22	6.21	0.0110	963.82	969.02	5.20	4.74	MH 3
	final	0.57	0.52									962.58				963.47	968.40			0.015



January 11, 2007

Columbia Gas of Ohio
920 West Goodale Boulevard
Columbus, Ohio 43212

Attn: Ms. Tiffany Fritchley, PE

**RE: Stage 1 Plan Submission
MAR-4D-0.70
PID # 79938**

Dear Ms. Fritchely,

Attached please find two sets of Stage 1 plans for the aforementioned project in the City of Marion, Ohio for the Ohio Department of Transportation, District 6. We originally received facility location information as a result of our OUPS request. Please review what we have shown and verify that it is correct.

Please call if you have any questions or require more information.

Respectfully,

A handwritten signature in cursive script, appearing to read 'Bronson Funke'.

Bronson Funke, P.E.
Project Manager

c: File



January 11, 2007

Marion City WPC
233 West Center Street
Marion, Ohio 43301-1822

Attn: Mr. Jim Bischoff, PE

RE: Stage 1 Plan Submission
MAR-4D-0.70
PID # 79938

Dear Mr. Bischoff

Attached please find two sets of Stage 1 plans for the aforementioned project in the City of Marion, Ohio for the Ohio Department of Transportation, District 6. As discussed previously by phone, the extent of coordination necessary with you will depend on the scope of the changes to the drainage systems.

Please review the plans and contact us to discuss the need for further coordination.

Respectfully,

A handwritten signature in cursive script that reads 'Bronson Funke'.

Bronson Funke, P.E.
Project Manager

c: File



January 11, 2007

Ohio American Water
5481 Buenos Aires Boulevard
Westerville, Ohio 43081

Attn: Mr. Ross Archbold

RE: Stage 1 Plan Submission
MAR-4D-0.70
PID # 79938

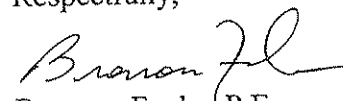
Dear Mr. Archbold,

Attached please find two sets of Stage 1 plans for the aforementioned project in the City of Marion, Ohio for the Ohio Department of Transportation, District 6.

We spoke previously with Sandra Savich on January 5th. Based on that conversation, we are to coordinate future plan submissions directly with you. At this time, we have not received marked up plans confirming or revising the locations shown for your facilities. As we discussed on the phone, it would be acceptable to use the Stage 1 plan submission information and respond accordingly. We ask that you provide your comments to us by February 12, 2007.

Thank you and please call if you have any questions or require more information.

Respectfully,


Bronson Funke, P.E.
Project Manager

c: File



January 11, 2007

Ohio Edison Company
1040 S. Prospect Street
Marion, Ohio 43302

Attn: Ms. Dawn Hicks

**RE: Stage 1 Plan Submission
MAR-4D-0.70
PID # 79938**

Dear Ms. Hicks

Attached please find two sets of Stage 1 plans for the aforementioned project in the City of Marion, Ohio for the Ohio Department of Transportation, District 6. Based on our phone conversation of January 5, 2007, you have done a field review and noted potential conflicts with a primary line at the Prospect Road Bridge. We also discussed the possibility of further conflicts with power lines below the Columbia Street Bridge.

As discussed, you will be providing us with an approximate clearance to the primary lines at the Prospect Street Bridge. You will also be reviewing our Stage 1 plans and checking for potential conflicts at the Columbia Street Bridge. Please respond with your comments and information by February 12, 2007.

Please call if you have any questions or require more information.

Respectfully,

A handwritten signature in cursive script, appearing to read 'Bronson Funke'.

Bronson Funke, P.E.
Project Manager

c: File



January 11, 2007

Verizon
550 Leader Street
Marion, Ohio 43302

Attn: Mr. William Muether

RE: Stage 1 Plan Submission
MAR-4D-0.70
PID # 79938

Dear Mr. Muether

Attached please find two sets of Stage 1 plans for the aforementioned project in the City of Marion, Ohio for the Ohio Department of Transportation, District 6. We did receive your written reply (received November 13, 2006) to the Preliminary Engineering Study and have adjusted the location of your facilities as necessary.

We do expect construction operations will require equipment to be in the vicinity of your aerial lines. If you have protection requirements that are more stringent than the typical requirements on similar projects, please include them with your response to this plan submission.

Please call if you have any questions or require more information.

Respectfully,

A handwritten signature in cursive script, appearing to read 'Bronson Funke'.

Bronson Funke, P.E.
Project Manager

c: File



January 11, 2007

Time Warner Cable
1266 Dublin Road
P. O. Box 2553
Columbus, OH 43216-2553

Attn: Mr. Kevin Rich

**RE: Stage 1 Plan Submittal
MAR-4D-0.70
PID # 79938
Bridge Rehabilitation Project – City of Marion, Ohio**

Dear Mr. Rich

Attached please find two sets of Stage 1 plans for the aforementioned project in the City of Marion, Ohio for the Ohio Department of Transportation, District 6. We did receive your written reply (dated November 10) to the Preliminary Engineering Study and have adjusted the location of your facilities as necessary.

At this time, we do not expect to be performing any work that will require excavation in the vicinity of your underground lines.

We do expect construction operations will require equipment to be in the vicinity of your aerial lines. If you have protection requirements that are more stringent than the typical requirements on similar projects, please include them with your response to this plan submission.

Please call if you have any questions or require more information.

Respectfully,

A handwritten signature in cursive script, appearing to read 'Bronson Funke'.

Bronson Funke, P.E.
Project Manager

c: File

Estimate MAR-4D-0.70

Estimated Cost: \$1,242,124.46

Contingency: 18.00%

Estimated Total: \$1,465,706.86

PID 79938

Letting Date: 01/06/06

Spec Year: 05

Unit System: E

Work Type: BRIDGE REHABILITATION

Highway Type: 448

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: MARION

Estimate Type: Stage 1

Prepared by Dan Ficker

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
Group 0100: Roadway					
0005	202E23500	266.000	SY	\$10.19982	\$2,713.15
WEARING COURSE REMOVED					
0006	202E30600	33.000	SY	\$12.00000	\$396.00
CONCRETE MEDIAN REMOVED					
0007	202E35100	50.000	FT	\$12.92225	\$646.11
PIPE REMOVED, 24" AND UNDER					
0008	202E70100	340.000	FT	\$17.58993	\$5,980.58
SPECIAL - PIPE CLEANOUT					
12" and 18" DOWNSPOUT CONNECTIONS					
0009	609E54000	33.000	SY	\$50.00000	\$1,650.00
6" CONCRETE TRAFFIC ISLAND					
Total for Group 0100:					\$11,385.84
Group 0200: Erosion Control					
0010	832E10000	1.000	EACH	\$3,000.00000	\$3,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0011	832E20000	2,000.000	LS	\$1.00000	\$2,000.00
EROSION CONTROL					
Total for Group 0200:					\$5,000.00
Group 0300: Drainage					
0012	603E01800	50.000	FT	\$12.84836	\$642.42
8" CONDUIT, TYPE B					
0013	603E04400	501.000	FT	\$64.79383	\$32,461.71
12" CONDUIT, TYPE B					
0014	604E00800	2.000	EACH	\$1,716.01677	\$3,432.03
CATCH BASIN, NO. 3A					
0015	604E00801	4.000	EACH	\$2,500.00000	\$10,000.00
CATCH BASIN, NO. 3A, AS PER PLAN					
0016	604E09000	4.000	EACH	\$470.81487	\$1,883.26
CATCH BASIN ADJUSTED TO GRADE					
0017	604E31500	2.000	EACH	\$2,308.61744	\$4,617.23
MANHOLE, NO. 3					
0018	604E34500	1.000	EACH	\$540.11109	\$540.11
MANHOLE ADJUSTED TO GRADE					
0019	604E34500	3.000	EACH	\$750.00000	\$2,250.00
MANHOLE ADJUSTED TO GRADE (SANITARY)					
Total for Group 0300:					\$55,826.76
Group 0400: Pavement					
0020	251E01000	106.000	SY	\$93.65108	\$9,927.01
PARTIAL DEPTH PAVEMENT REPAIR					
0021	254E01000	403.000	SY	\$7.55309	\$3,043.90
PAVEMENT PLANING, ASPHALT CONCRETE					
0022	302E46000	4.000	CY	\$70.00000	\$280.00
ASPHALT CONCRETE BASE, PG64-22					
FOR PIPE RESTORATION					
0023	305E13000	170.000	SY	\$84.44223	\$14,355.18
9" CONCRETE BASE					
FOR PIPE RESTORATION - PROSPECT					
0024	407E10000	30.000	GAL	\$1.38720	\$41.62
TACK COAT					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
0025	407E13900 TACK COAT, 702.13	136.000	GAL	\$1.20106	\$163.34
0026	448E46020 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22	65.000	CY	\$153.77900	\$9,995.64
0027	448E47020 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22	77.000	CY	\$183.69687	\$14,144.66
Total for Group 0400:					\$51,951.35

Group 0800: Traffic Control

0028	642E00190 LANE LINE	0.110	MILE	\$719.23035	\$79.12
0029	642E00290 CENTER LINE	0.029	MILE	\$1,447.07076	\$41.97
0030	642E00790 CURB MARKING	240.000	FT	\$4.00000	\$960.00
0031	644E00400 CHANNELIZING LINE	75.000	FT	\$1.98309	\$148.73
0032	644E00500 STOP LINE	33.000	FT	\$8.68849	\$286.72
0033	644E00600 CROSSWALK LINE	145.000	FT	\$3.27055	\$474.23
0034	644E01300 LANE ARROW	4.000	EACH	\$145.17131	\$580.69
0035	646E10100 LANE LINE	0.273	MILE	\$2,459.53931	\$671.45
0036	646E10200 CENTER LINE	0.113	MILE	\$18,090.93611	\$2,044.28
Total for Group 0800:					\$5,287.19

Group 0900: Traffic Signals

0037	632E26500 DETECTOR LOOP	3.000	EACH	\$1,012.24559	\$3,036.74
0038	632E65200 LOOP DETECTOR LEAD-IN CABLE	300.000	FT	\$1.50000	\$450.00
Total for Group 0900:					\$3,486.74

Group 1200: Maintenance of Traffic

0039	614E11100 LAW ENFORCEMENT OFFICER WITH PATROL CAR	25.000	HOUR	\$56.06034	\$1,401.51
0040	614E22000 WORK ZONE EDGE LINE, CLASS I	1.000	MILE	\$852.27116	\$852.27
Total for Group 1200:					\$2,253.78

Group 1400: Structure Repair (Bridge MAR-4D-0070)

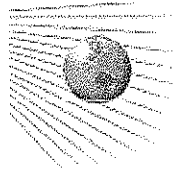
0041	202E23501 WEARING COURSE REMOVED, AS PER PLAN	156.000	SY	\$14.00000	\$2,184.00
0043	512E10100 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	1,836.000	SY	\$11.16719	\$20,502.96
0044	512E10300 SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	190.000	SY	\$14.46027	\$2,747.45
0045	512E10600 CONCRETE REPAIR BY EPOXY INJECTION	50.000	FT	\$23.80835	\$1,190.42
0046	516E01301 ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS, AS PER PLAN	172.000	FT	\$39.03565	\$6,714.13

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	Description				
	Supplemental Description				
0048	516E43101	1.000	EACH	\$500.00000	\$500.00
	ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE), AS PER PLAN				
0049	516E45305	20.000	EACH	\$250.00000	\$5,000.00
	REFURBISH BEARING DEVICE, AS PER PLAN				
0052	519E11101	2,830.000	SF	\$20.00000	\$56,600.00
	PATCHING CONCRETE STRUCTURE, AS PER PLAN				
0054	607E39910	1,595.000	FT	\$50.00000	\$79,750.00
	SPECIAL - VANDAL PROTECTION FENCE, 8' STRAIGHT, COATED FABRIC				
0055	843E50000	200.000	SF	\$25.00000	\$5,000.00
	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR				
0056	848E10001	2,637.000	SY	\$42.48482	\$112,032.47
	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN				
0057	848E20000	2,483.000	SY	\$22.73319	\$56,446.51
	SURFACE PREPARATION USING HYDRODEMOLITION				
0058	848E50000	87.000	SY	\$57.90698	\$5,037.91
	HAND CHIPPING				
0059	848E50100	1.000	LS	\$5,000.00000	\$5,000.00
	TEST SLAB				
0060	848E50200	14.000	CY	\$300.00000	\$4,200.00
	FULL-DEPTH REPAIR				
0061	848E50320	2,483.000	SY	\$8.39109	\$20,835.08
	EXISTING CONCRETE OVERLAY REMOVED				
0062	848E50340	869.000	SY	\$8.00000	\$6,952.00
	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY				
Total for Group 1400: \$390,692.93					

Group 1401: Structure Repair (Bridge MAR-95-1436)

0063	202E23501	267.000	SY	\$14.00000	\$3,738.00
	WEARING COURSE REMOVED, AS PER PLAN				
0068	512E10100	1,520.000	SY	\$10.83163	\$16,464.08
	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)				
0069	512E10300	265.000	SY	\$14.46027	\$3,831.97
	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN				
0071	518E63300	1.000	LS	\$10,000.00000	\$10,000.00
	STRUCTURE DRAINAGE, MISC.				
0072	519E11101	3,434.000	SF	\$20.00000	\$68,680.00
	PATCHING CONCRETE STRUCTURE, AS PER PLAN				
0074	607E39910	1,198.000	FT	\$50.00000	\$59,900.00
	SPECIAL - VANDAL PROTECTION FENCE, 8' STRAIGHT, COATED FABRIC				
0075	843E50000	200.000	SF	\$25.00000	\$5,000.00
	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR				
0077	848E10000	2,930.000	SY	\$35.00000	\$102,550.00
	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION				
0078	848E20000	2,912.000	SY	\$22.73319	\$66,199.05
	SURFACE PREPARATION USING HYDRODEMOLITION				
0079	848E50000	160.000	SY	\$57.90698	\$9,265.12
	HAND CHIPPING				
0080	848E50100	1.000	LS	\$5,000.00000	\$5,000.00
	TEST SLAB				
0081	848E50200	22.000	CY	\$300.00000	\$6,600.00
	FULL-DEPTH REPAIR				
0082	848E50320	2,645.000	SY	\$8.39000	\$22,191.55
	EXISTING CONCRETE OVERLAY REMOVED				
0083	848E50340	1,322.000	SY	\$8.00000	\$10,576.00
	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY				
Total for Group 1401: \$389,995.77					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<u>Description</u>				
	<u>Supplemental Description</u>				
Group 9000: Incidentals					
0084	100E99000	1.000	LS	\$10,000.00000	\$10,000.00
	SPECIAL - PREMIUM ON RAILROAD'S PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE				
0085	103E05000	1.000	LS	\$9,554.80360	\$9,554.80
	PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND				
0086	614E11000	1.000	LS	\$28,664.41080	\$28,664.41
	MAINTAINING TRAFFIC				
0087	619E16000	8.000	MNTH	\$1,200.00000	\$9,600.00
	FIELD OFFICE, TYPE A				
0088	623E10000	1.000	LS	\$9,554.80360	\$9,554.80
	CONSTRUCTION LAYOUT STAKES				
0089	624E10000	1.000	LS	\$20,000.00000	\$20,000.00
	MOBILIZATION				
0090	990E10020	1.000	LS	\$238,870.09000	\$238,870.09
	ESTIMATED COST OF ENGINEERING, SUPERINTENDENCE AND CONTINGENCIES				
	25%				
				Total for Group 9000:	\$326,244.10



Tom
Makris/Production/D06/ODO

T
12/01/2006 11:12 AM

To Brian Tatman/Planning/D06/ODOT@ODOT, Dale
Mead/Production/D06/ODOT@ODOT,
JAMES.BISCHOFF@MARIONOHIO.ORG, Robert

cc

bcc

Subject MAR-4D-0.70, PID 79938; PE Review Comments.

All,

A friendly reminder. In order to keep this project on schedule,
I need your review comments by the end of today.
The due date was set for Friday, November 24th.

Note: the plans were sent via email on November 1, 2006.

Respectfully,

Thomas G. Makris, P.E.
Project Manager, District 6
740.833.8084
614.995.7906 x 833.8084
800.372.7714 x 833.8084



PLAN REVIEW FORM

ODOT DISTRICT 6

DATE: Wednesday, November 1st, 2006

TO:

Reviewer	Representing	Component
Brian Tatman	ODOT-D6	Environmental
Jon Adams	ODOT-D6	Hydraulics
Mark Katona	ODOT-D6	MOT
Jim Bischoff	City of Marion	MOT
Dennis Sheets	ODOT-D6	Overall
Qi Unterreiner	ODOT-D6	Pavement/Geotech
John Maynard	ODOT-D6	Need ROW Certification
Fay Taylor	ODOT-D6	Traffic Control
Bob Taylor	ODOT-D6	Structures (pe, sts)
Tom Makris	ODOT-D6	Structures
Bruce Birch	ODOT-D6	Railroad Coordination
Ruth Wiechman	ODOT-D6	Utilities

FROM: Thomas G. Makris, P.E.
 PROJECT: MAR-4D-0.70, PID 79938
 SUBJECT: Preliminary Engineering Submittal

Do you have review comments? Yes No

If you checked "Yes" please provide comments on the plans, via e-mail, or on a separate sheet.
 If you checked "No" please sign and date this form and return it to me.

Is a compliance submission required? Yes No

Please respond by: Friday, November 24th, 2006

Signed: *R. Dale Mead* Date: 12-7-06

COMMENTS: All ODOT-D6 Reviewers, Please reference the PDP to determine if additional reviews need to be performed by Central Office or External Agencies. All Reviewers have been provided with a set of the Stage PE Plans. Additional information can be found within the project file folder. Please, feel free to contact me via e-mail at tmakris@dot.state.oh.us or via telephone at 740.833.8084 if you have any questions, or need additional information.

Respectfully,

Thomas G. Makris

Thomas G. Makris, P.E.
 Project Manager
 ODOT District 6

C: Project File, Bruce Birch, Herb Ligocki, John Maynard,
 Project File, Chrono File



PLAN REVIEW FORM

ODOT DISTRICT 6

DATE: Wednesday, November 1st, 2006

TO:

Reviewer	Representing	Component
Brian Tatman	ODOT-D6	Environmental
Jon Adams	ODOT-D6	Hydraulics
Mark Katona	ODOT-D6	MOT
Jim Bischoff	City of Marion	MOT
Dennis Sheets	ODOT-D6	Overall
Qi Unterreiner	ODOT-D6	Pavement/Geotech
John Maynard	ODOT-D6	Need ROW Certification
Fay Taylor	ODOT-D6	Traffic Control
Bob Taylor	ODOT-D6	Structures (pe, sts)
Tom Makris	ODOT-D6	Structures
Bruce Birch	ODOT-D6	Railroad Coordination
Ruth Wiechman	ODOT-D6	Utilitites

FROM: Thomas G. Makris, P.E.
PROJECT: MAR-4D-0.70, PID 79938
SUBJECT: Preliminary Engineering Submittal

Do you have review comments? Yes No

If you checked "Yes" please provide comments on the plans, via e-mail, or on a separate sheet.
If you checked "No" please sign and date this form and return it to me.

Is a compliance submission required? Yes No

Please respond by: Friday, November 24th, 2006

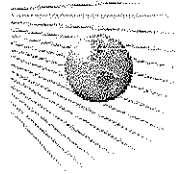
Signed: _____ Date: _____

COMMENTS: All ODOT-D6 Reviewers, Please reference the PDP to determine if additional reviews need to be performed by Central Office or External Agencies. All Reviewers have been provided with a set of the Stage PE Plans. Additional information can be found within the project file folder. Please, feel free to contact me via e-mail at tmakris@dot.state.oh.us or via telephone at 740.833.8084 if you have any questions, or need additional information.

Respectfully,

Thomas G. Makris, P.E.
Project Manager
ODOT District 6

C: Project File, Bruce Birch, Herb Ligocki, John Maynard,
Project File, Chrono File



Tom
Makris/Production/D06/ODO
T
11/01/2006 03:17 PM

To Brian Tatman/Planning/D06/ODOT@ODOT, Jon
Adams/Production/D06/ODOT@ODOT, Mark
Katona/Production/D06/ODOT@ODOT, Dennis
cc Bruce Birch/Production/D06/ODOT@ODOT, Herb
Ligocki/Production/D06/ODOT@ODOT, John Maynard,
Valerie Croasmun/Planning/D06/ODOT@ODOT, Tammy
bcc

Subject Mar-4D-0.70, pid 79938; Preliminary Engineering Submittal.

D06 Reviewers;

Attached is the plan review form and the link to the project directory
for all necessary information that you might need to perform the PE review.



plan_review_form.xls

I:\Projects\mar\004\0070.008\pe

Please respond to me by Friday, November, 24, 2006.

Respectfully,

Thomas G. Makris, P.E.
Project Manager, District 6
740.833.8084
614.995.7906 x 833.8084
800.372.7714 x 833.8084



**Tom
Makris/Production/D06/ODO
T**

11/01/2006 03:17 PM

To Brian Tatman/Planning/D06/ODOT@ODOT, Jon
Adams/Production/D06/ODOT@ODOT, Mark
Katona/Production/D06/ODOT@ODOT, Dennis
cc Bruce Birch/Production/D06/ODOT@ODOT, Herb
Ligocki/Production/D06/ODOT@ODOT, John Maynard,
Valerie Croasmun/Planning/D06/ODOT@ODOT, Tammy
bcc

Subject Mar-4D-0.70, pid 79938; Preliminary Engineering Submittal.

D06 Reviewers;

Attached is the plan review form and the link to the project directory
for all necessary information that you might need to perform the PE review.



plan_review_form.xls

I:\Projects\mar\004\0070.008\pe

Please respond to me by Friday, November, 24, 2006.

Respectfully,

Thomas G. Makris, P.E.
Project Manager, District 6
740.833.8084
614.995.7906 x 833.8084
800.372.7714 x 833.8084



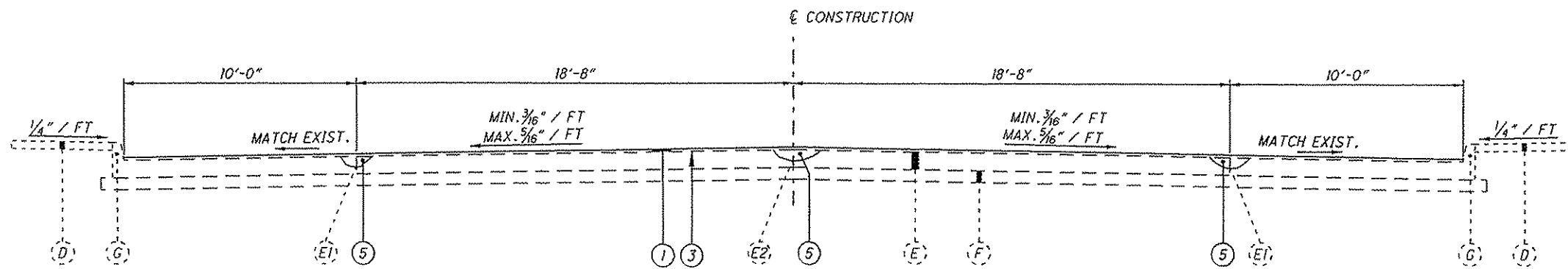
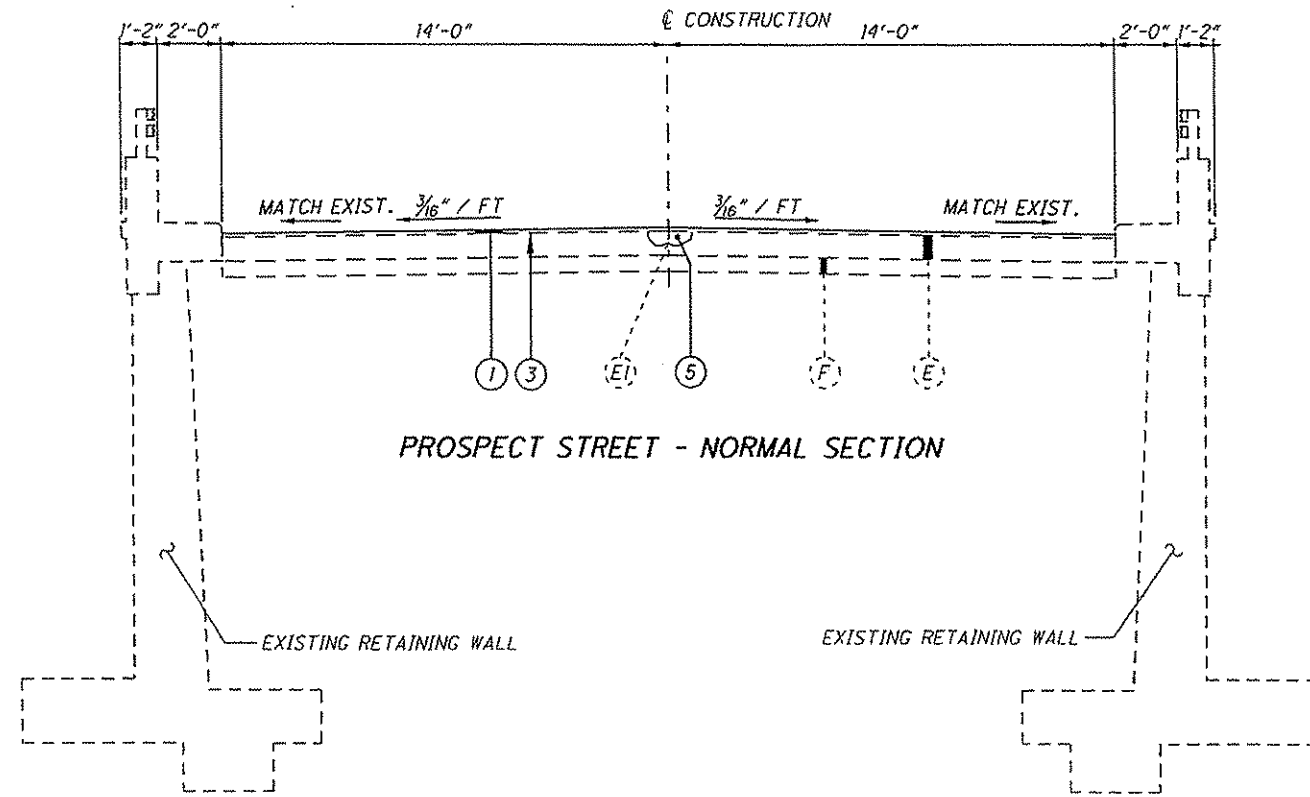
LEGEND

EXISTING ITEMS

- (A) 2 1/2" ASPHALT CONCRETE
- (B) 9" BITUMINOUS AGGREGATE BASE
- (C) COMBINATION CURB & GUTTER, TYPE 2, MODIFIED AS PER PLAN
- (D) 4" CONCRETE SIDEWALK
- (E) 9" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
- (E1) STANDARD LONGITUDINAL JOINT
- (E2) STANDARD LONGITUDINAL: KEY JOINT, WITHOUT TIE BARS
- (F) 6" SUBBASE
- (G) CONCRETE CURB, MODIFIED TYPE 2-A

PROPOSED ITEMS

- (1) ITEM 448 - 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
- (2) ITEM 407 - TACK COAT
- (3) ITEM 407 - TACK COAT, 702.13
- (4) ITEM 254 - 1/4" PAVEMENT PLANING, ASPHALT CONCRETE
- (5) ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR



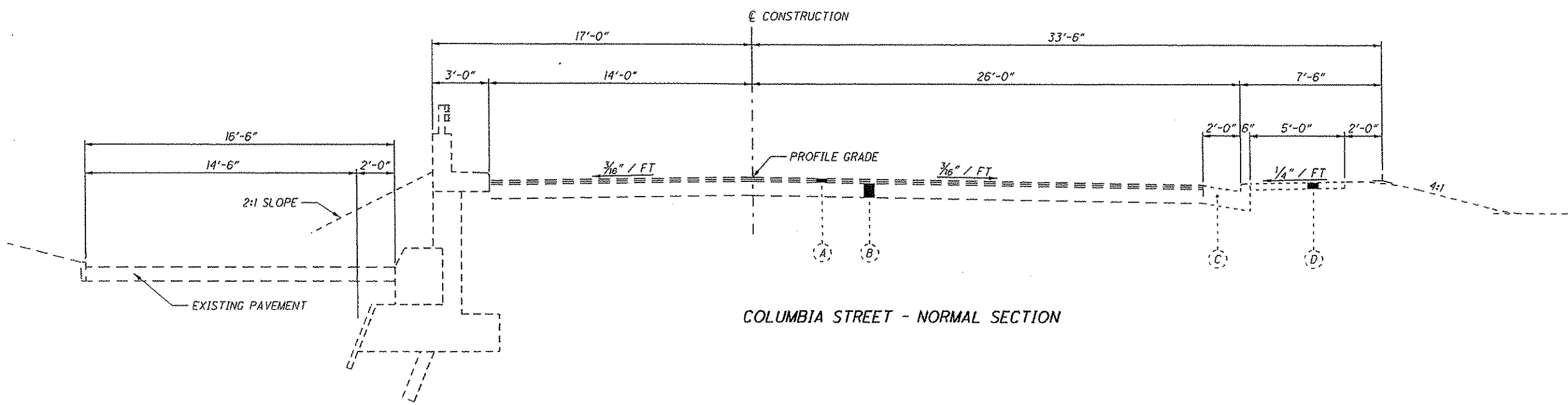
TYPICAL SECTIONS

MAR-4D-0.70

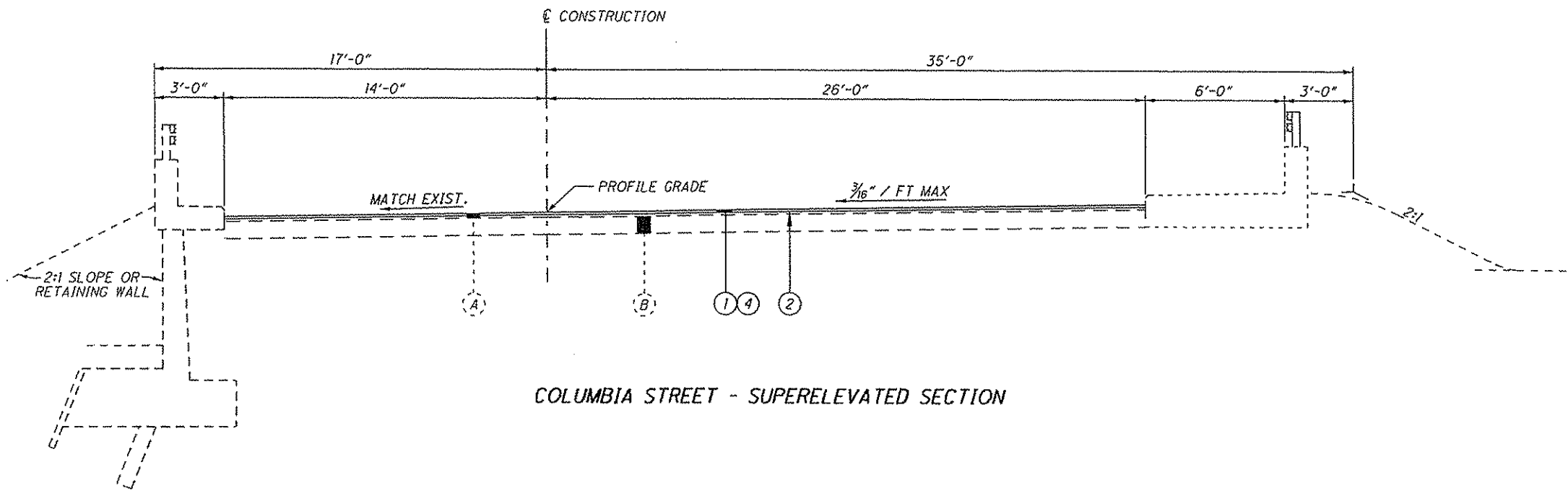
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 MODEL: 7993861001

Palmer Engineering
 1330 CORNELL PARK DR
 CINCINNATI, OH 45242
 ENGINEERING • SURVEYING • EROSION CONTROL

Palmer Engineering
 1300 CORNELL PARK DR
 CINCINNATI, OH 45242
 10/26/2006 03:44:54 PM BY ANTHONY
 01\000T\MAR\79938\ROADWAY\SHEETS\79938G1001.DGN
 MODEL: 79938G1002



COLUMBIA STREET - NORMAL SECTION



COLUMBIA STREET - SUPERELEVATED SECTION

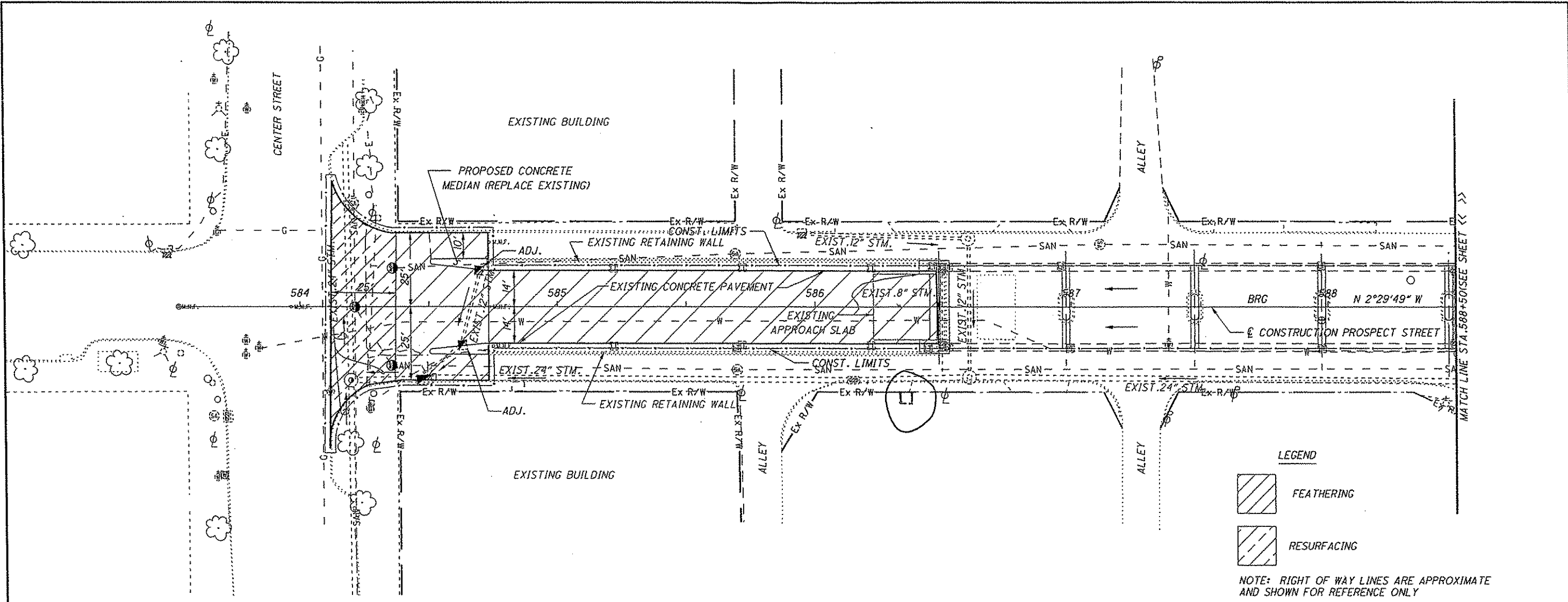
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MAR-4D-0.70





10/26/2006 03:41:45 PM BY:ANTHONY
 D:\0001\NARY\79338\ROADWAY\ SHEETS\79338P001.DGN
 MODEL SHEET

Palmer Engineering
 1300 CORNELL PARK DR
 CINCINNATI, OH 45242
 ENGINEERING ARCHITECTURE SURVEYING

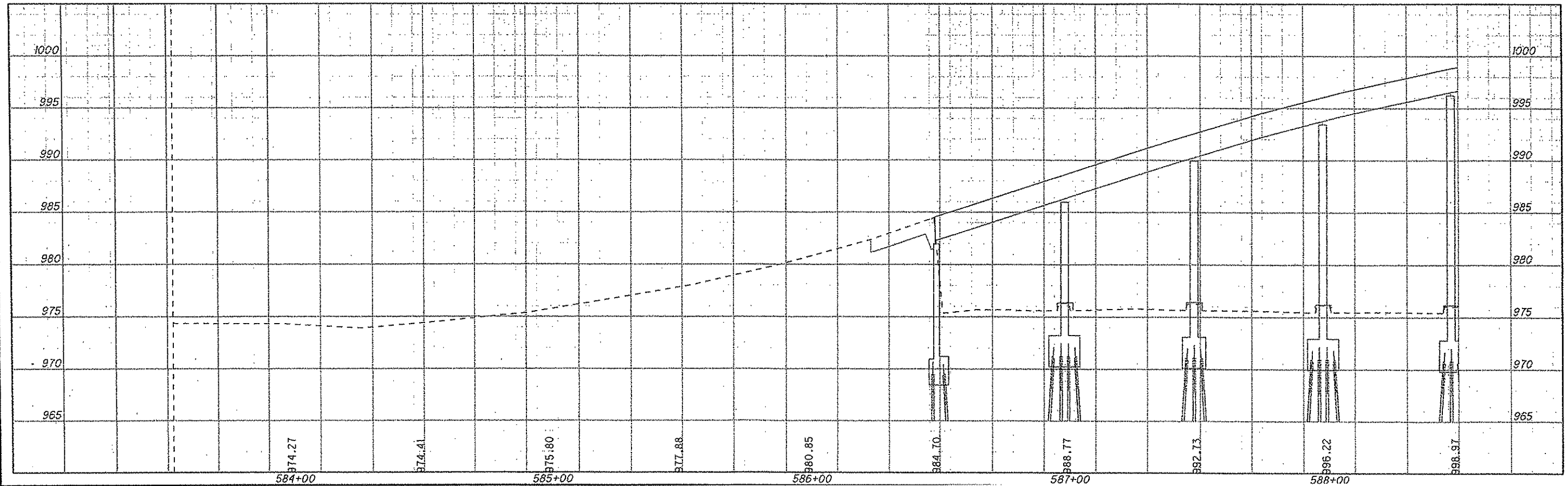


LEGEND

 FEATHERING

 RESURFACING

NOTE: RIGHT OF WAY LINES ARE APPROXIMATE AND SHOWN FOR REFERENCE ONLY



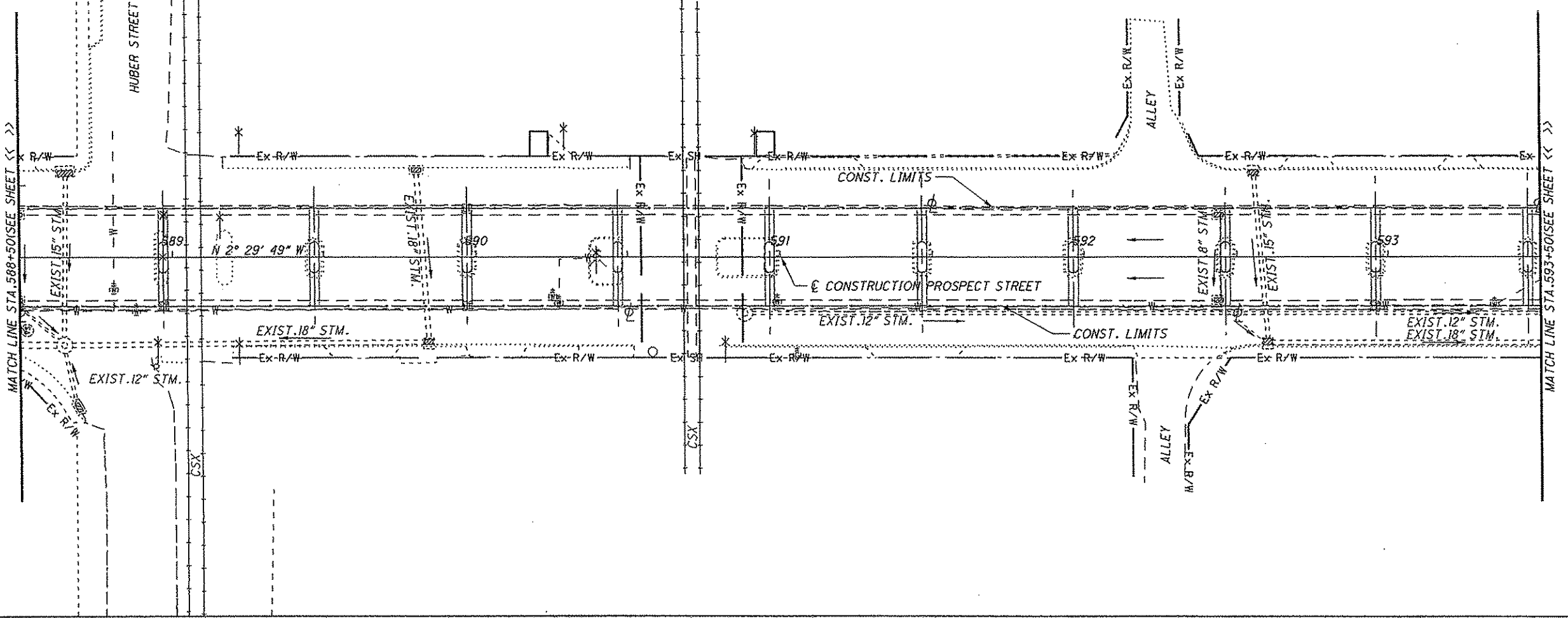
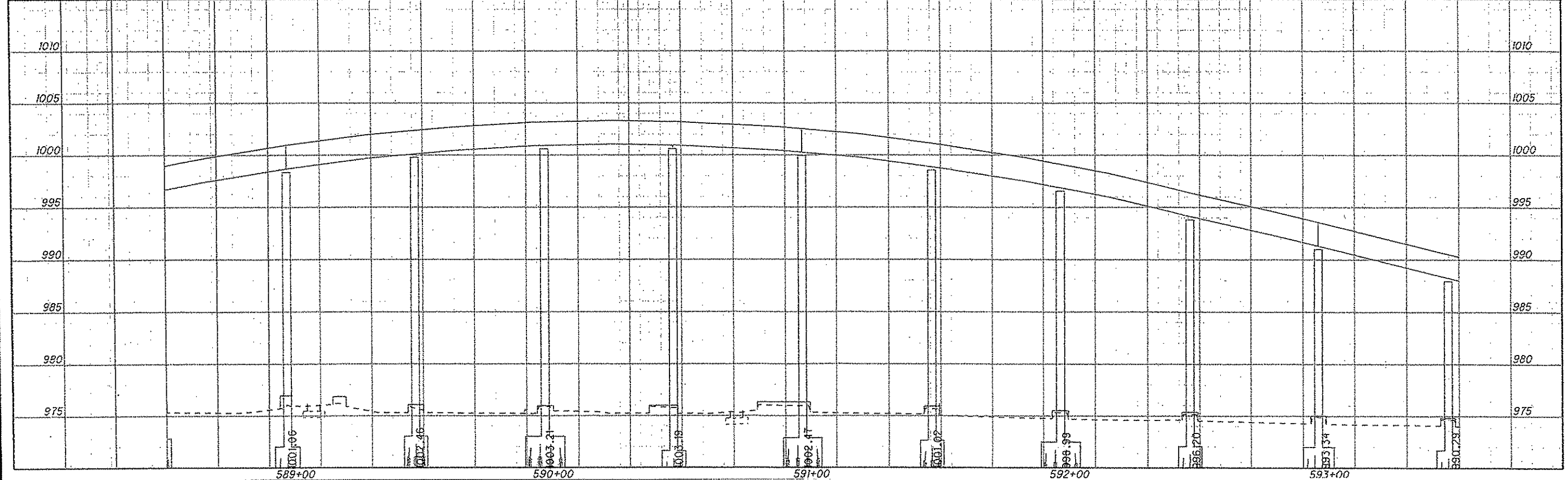
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MAR-4D-0.70

STA 583+50 TO 588+50

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 HORIZONTAL SCALE IN FEET

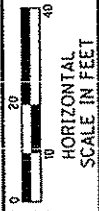
CHECKED
 CALCULATED



MAR-4D-0.70

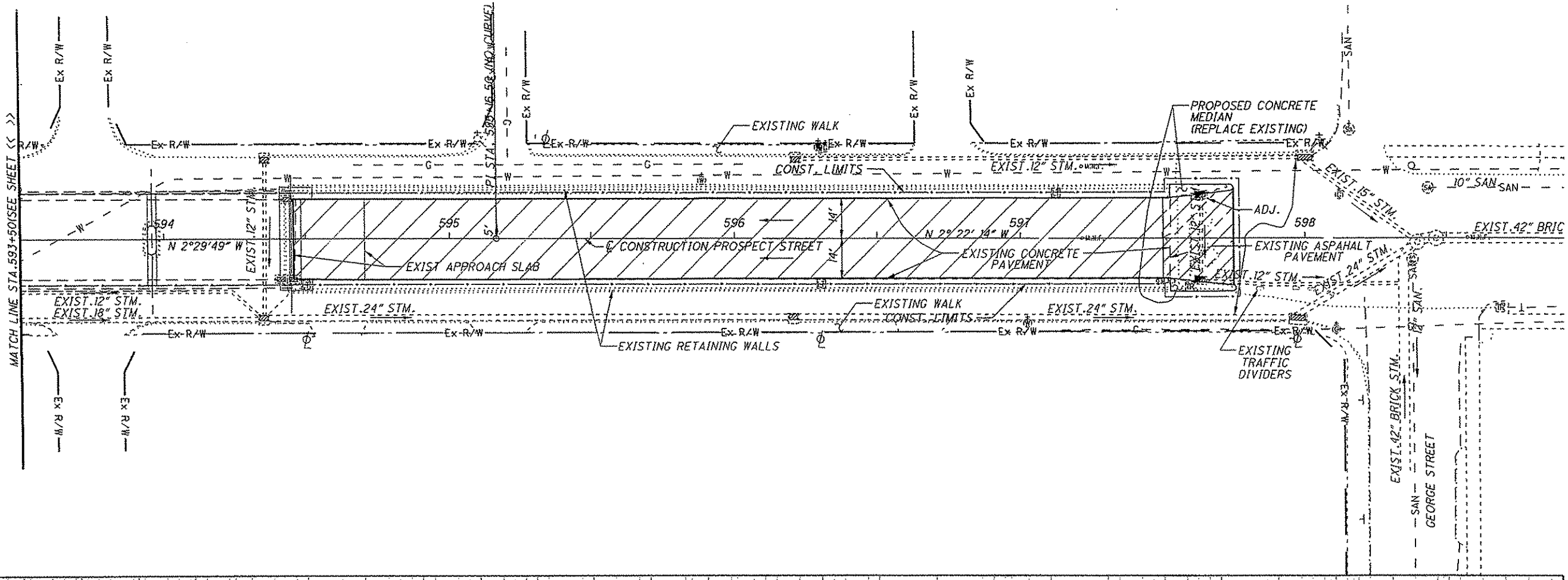
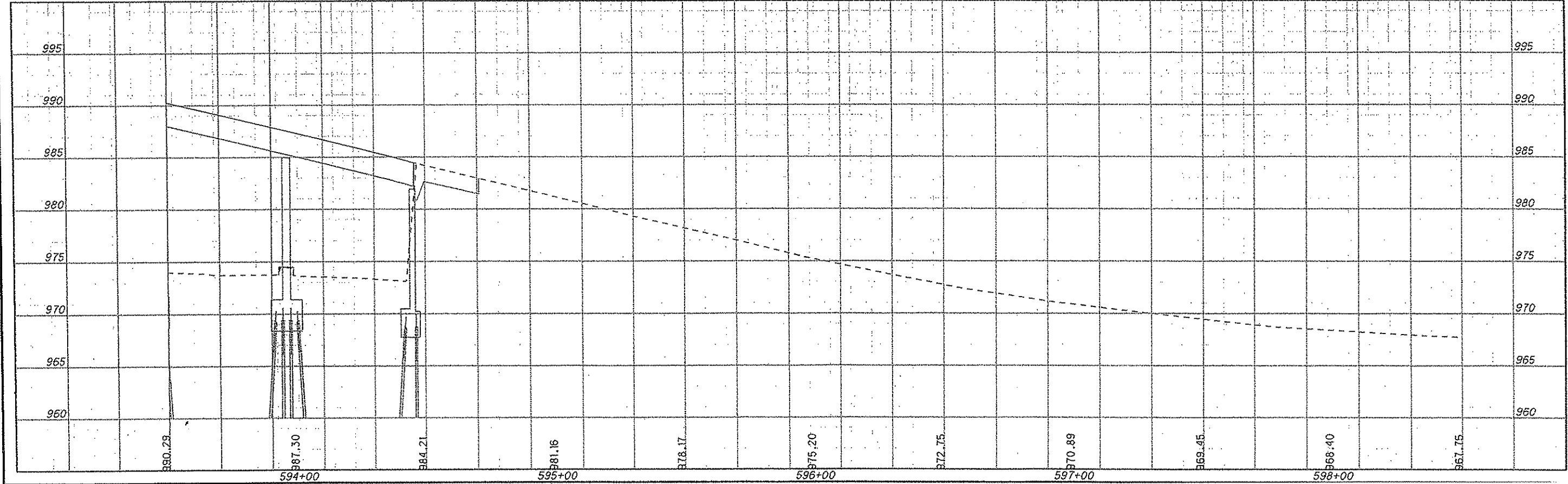
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 STA 588+50 TO STA 593+50

CALCULATED
 CHECKED



10/26/2006 03:43:05 PM BY ANTHONY
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 MODEL 1 SHEET

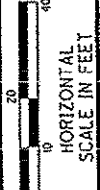
RPA PALMER ENGINEERING
 1000 CORNELL PARK DR
 CINCINNATI, OH 45242
 ENGINEERING

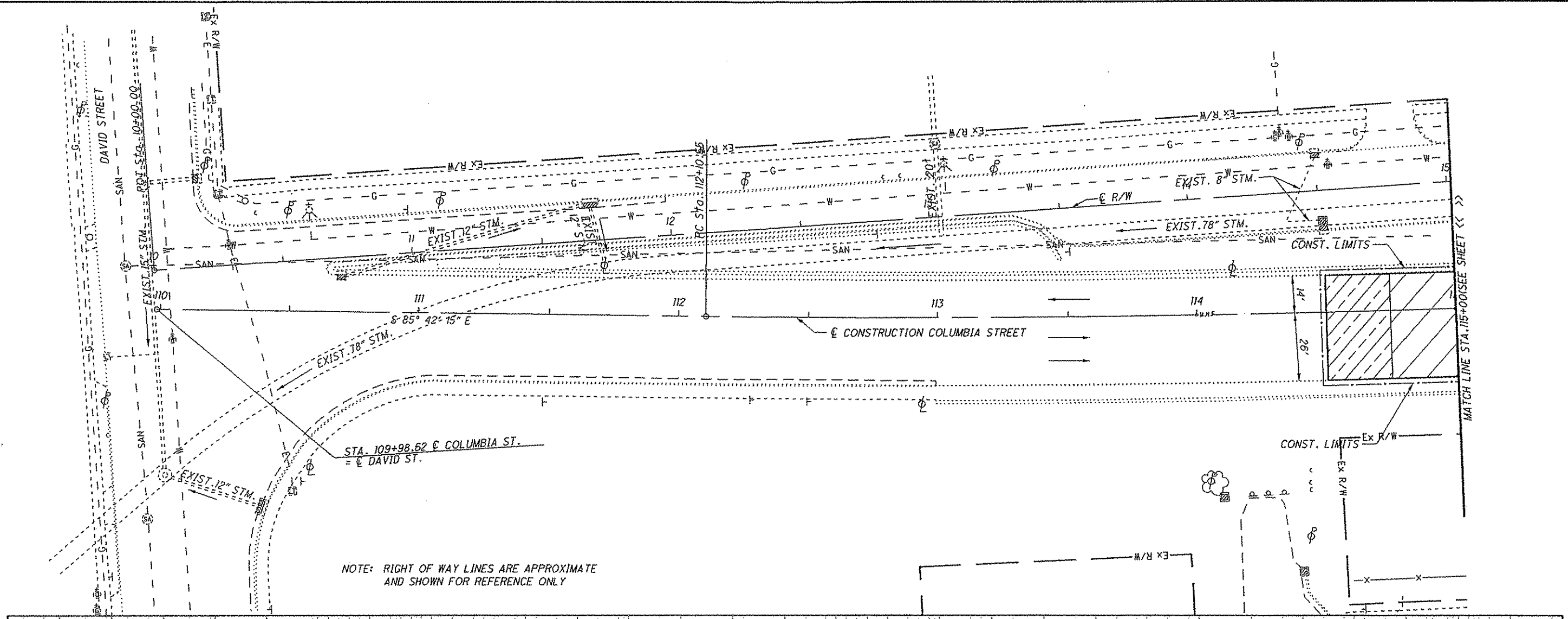


MAR-4D-0.70

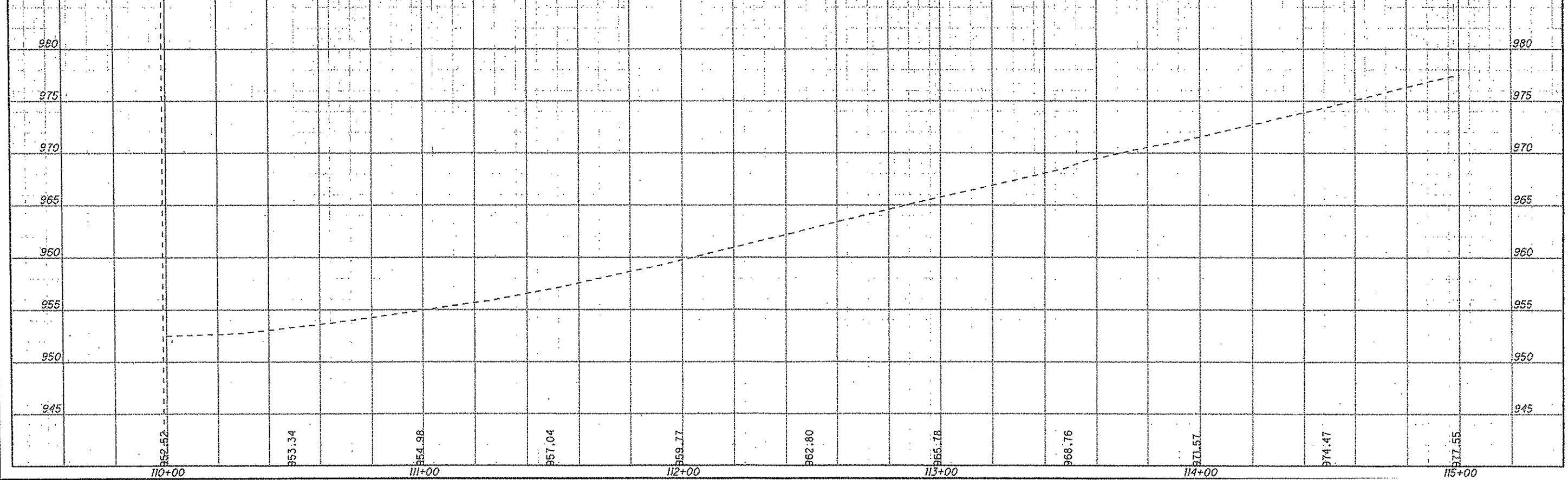
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 STA 593+50 TO STA 599+00

CALCULATED
 CHECKED





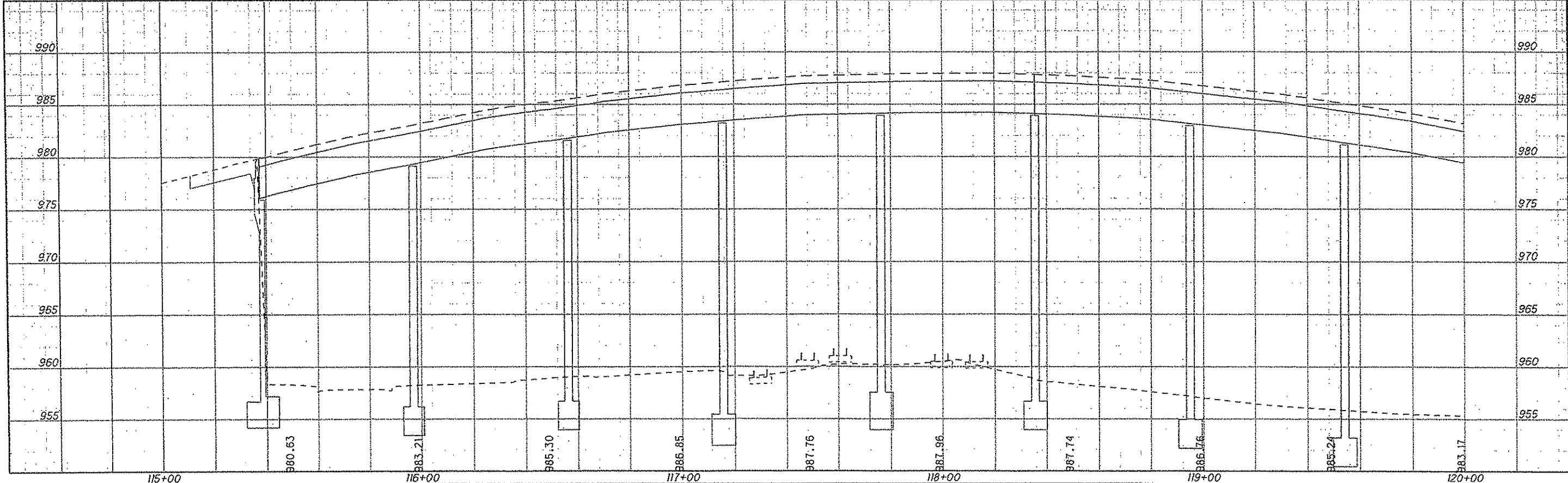
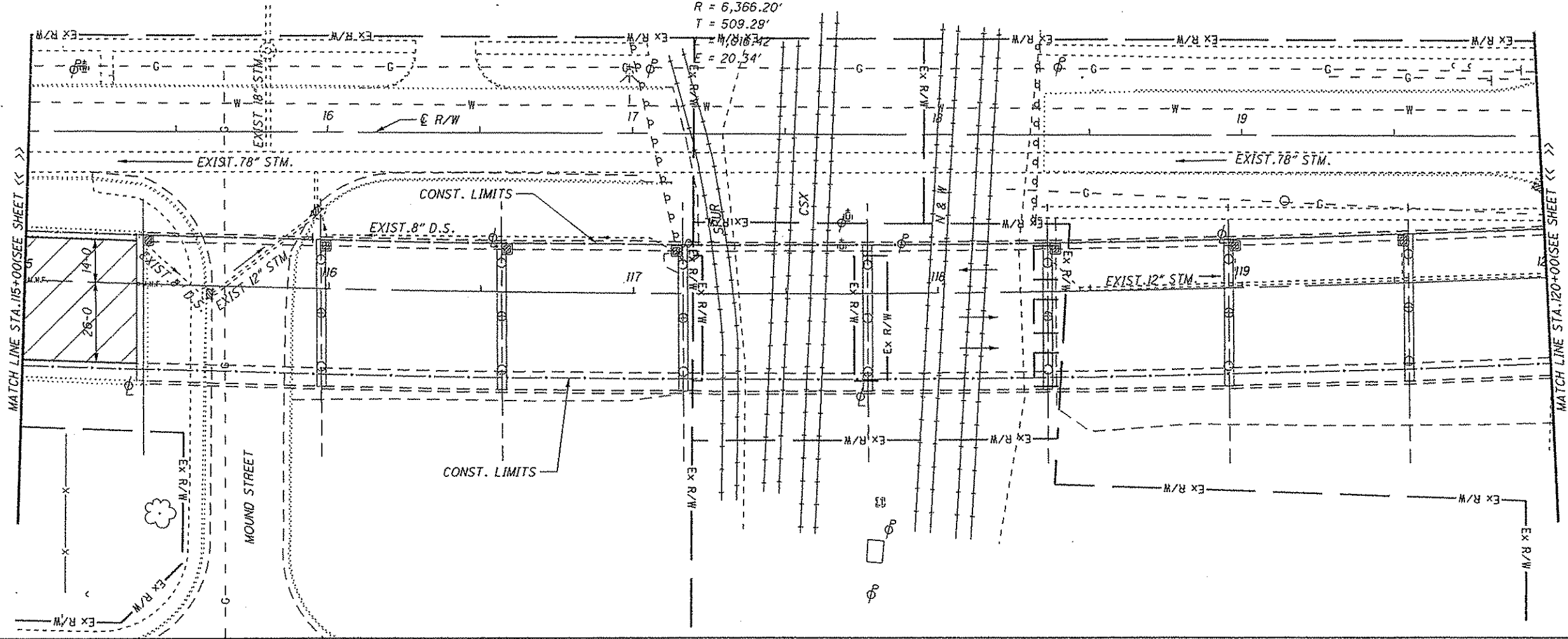
NOTE: RIGHT OF WAY LINES ARE APPROXIMATE AND SHOWN FOR REFERENCE ONLY




10/26/2006 03:43:37 PM BY ANTHONY
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 MODEL + SHEET

Palmer Engineering
 1300 CORNELL PARK DR
 CINCINNATI, OH 45242
 ENGINEERING • SURVEYING • EROSION CONTROL •

P.I. STA. 117+19.84
 $\Delta = 9^\circ 08' 52''$ (L.T.)
 $Dc = 0^\circ 54' 00''$
 $R = 6,366.20'$
 $T = 509.29'$
 $L = 249.82'$
 $E = 20.54'$





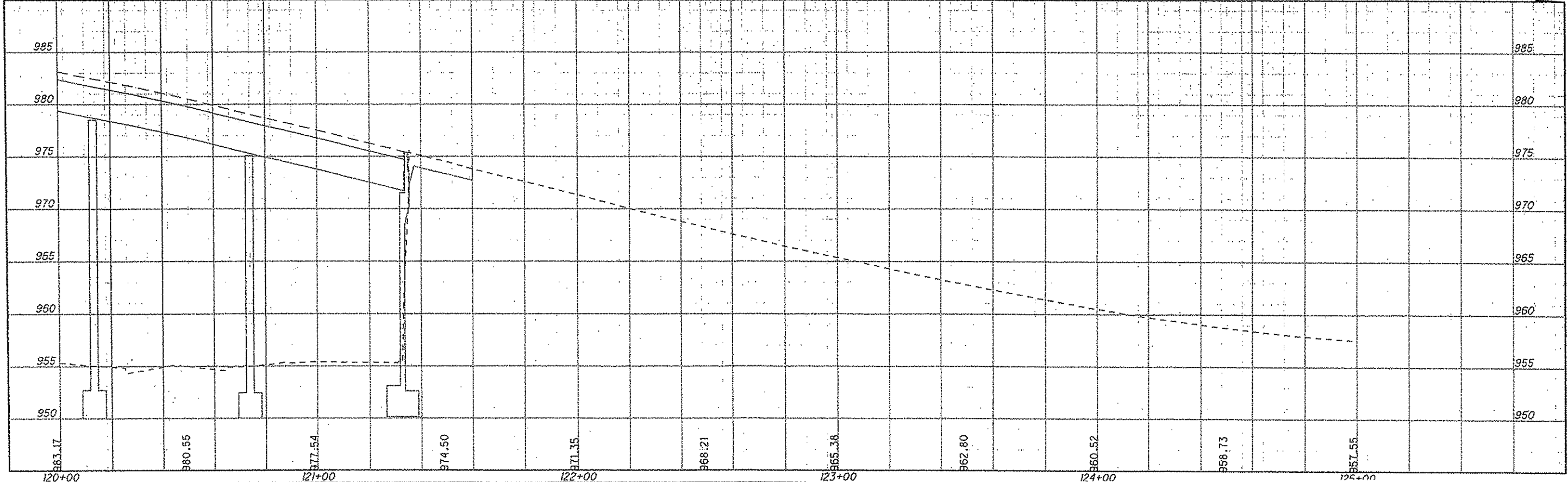
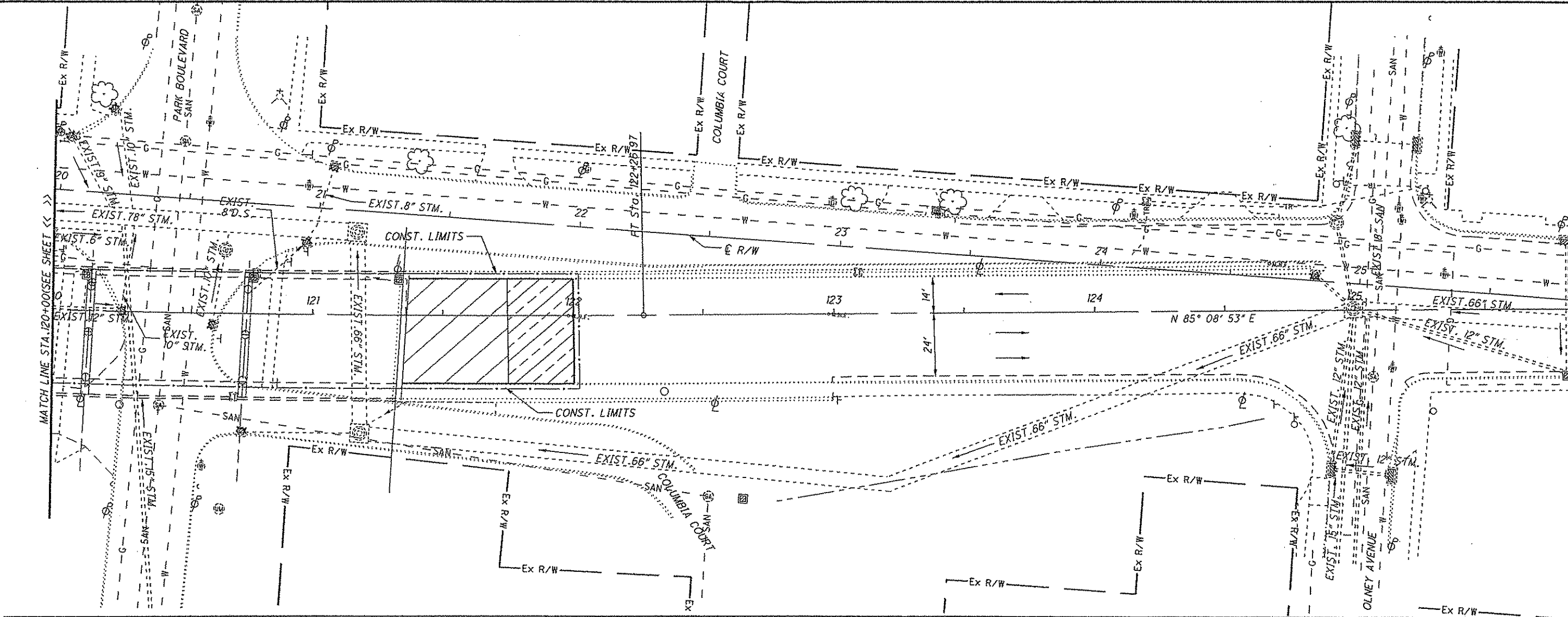
0 10 20
HORIZONTAL
SCALE IN FEET

CALCULATED
CHECKED

MAR-4D-0.70

PLAN AND PROFILE COLUMBIA STREET (SR 95)

STA 115+00 TO STA 120+00



**PLAN AND PROFILE COLUMBIA STREET (SR 95)
 STA 120+00 TO STA 126+00**

MAR-4D-0.70

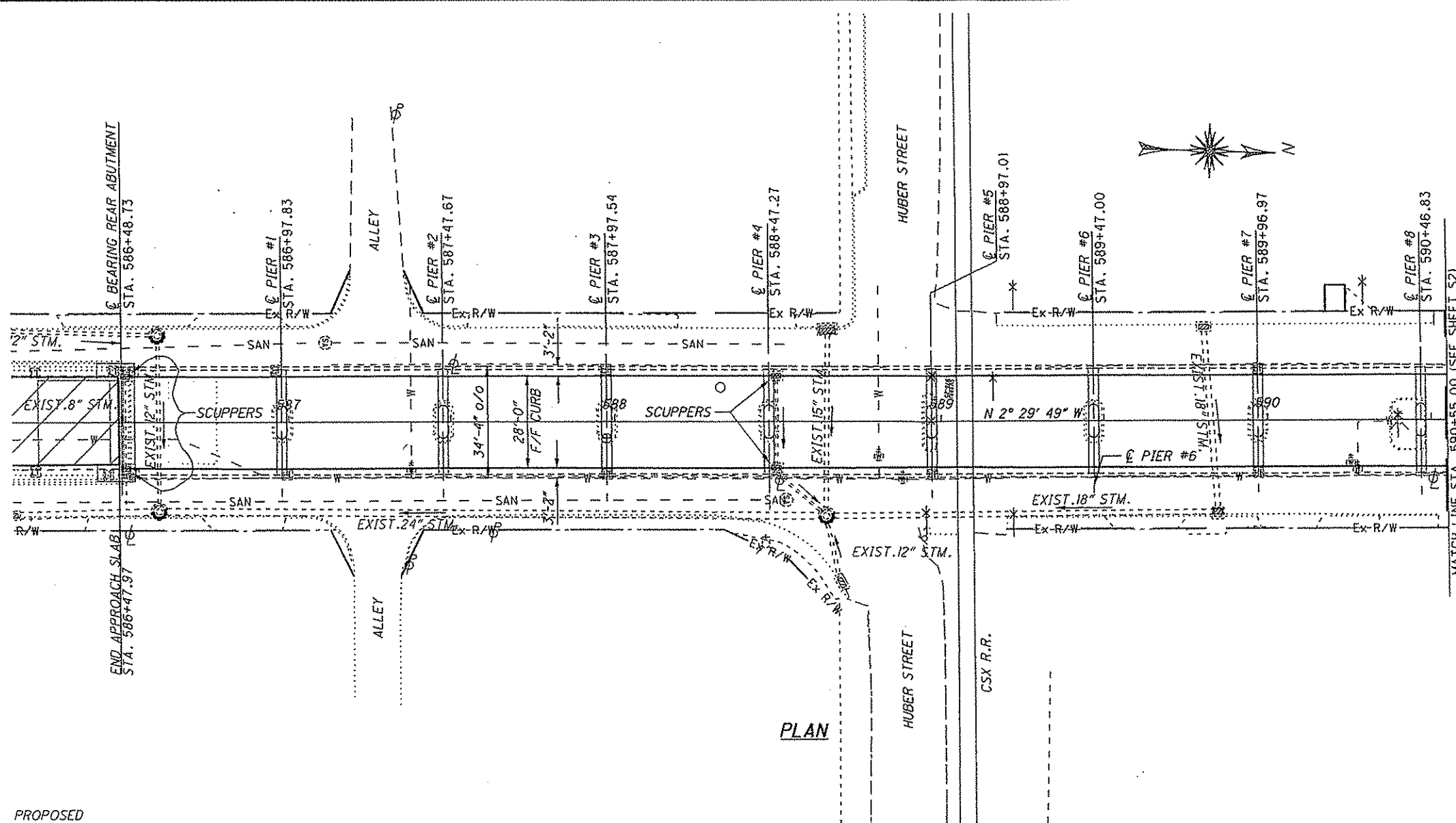
CALCULATED _____ CHECKED _____

HORIZONTAL SCALE IN FEET

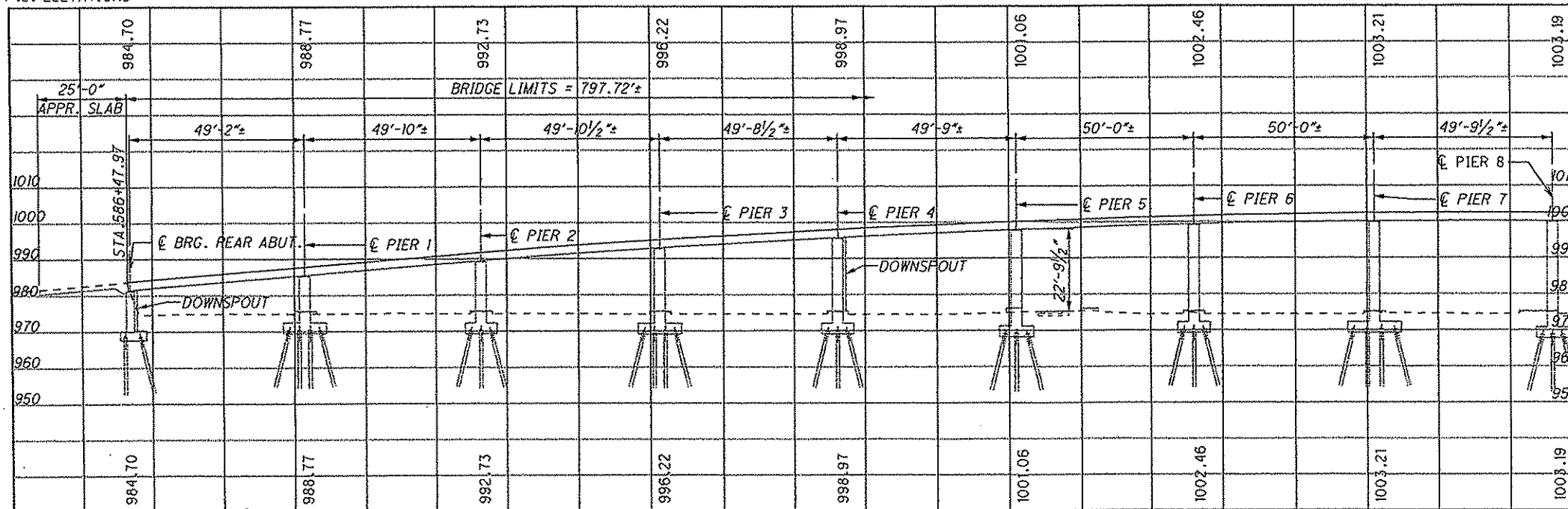
1" = 40'

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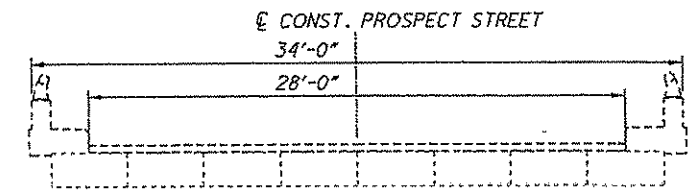


PROPOSED
P.G. ELEVATIONS



EXISTING
P.G. ELEVATIONS

PROFILE ALONG C CONSTRUCTION PROSPECT STREET



SUPERSTRUCTURE SECTION

BENCHMARK DATA

BM #	STA.	ELEV.	OFFSET
BM #1	STA.	ELEV.	OFFSET
BM #2	STA.	ELEV.	OFFSET
BM #3	STA.	ELEV.	OFFSET
BM #4	STA.	ELEV.	OFFSET

FOR ADDITIONAL BENCHMARK INFORMATION, SEE ROADWAY PLAN SHEET

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS

DESIGN TRAFFIC:
 2008 ADT = 7118 2008 ADTT = 569
 2028 ADT = 8685 2028 ADTT = 695
 DIRECTIONAL DISTRIBUTION = 55%

EXISTING STRUCTURE

TYPE: PRESTRESSED CONCRETE BOX BEAMS (CB21-48) WITH COMPOSITE CONCRETE DECK AND LATEX MODIFIED CONCRETE OVERLAY ON REINFORCED CONCRETE PIERS AND ABUTMENTS

SPANS: 16 SPANS; FOR LENGTH, SEE PROFILE VIEW
 ROADWAY: 28'-0" F/F SAFETY CURB 2'-0"
 LOADING: S20-60

SKEW: NONE
 APPROACH SLABS: AS-1-54, 25' LONG
 ALIGNMENT: TANGENT
 CROWN: NORMAL
 STRUCTURAL FILE NUMBER: 5100240
 DATE BUILT: 1968
 DISPOSITION: FAIR

PROPOSED STRUCTURE

TYPE: PRESTRESSED CONCRETE BOX BEAMS (CB21-48) WITH COMPOSITE CONCRETE DECK ON REINFORCED CONCRETE PIERS AND ABUTMENTS WITH NEW 1/4" MICROSILICA CONCRETE OVERLAY

SPANS: SAME
 ROADWAY: 28'-0"
 LOADING: N/A
 SKEW: SAME
 APPROACH SLABS: SAME
 ALIGNMENT: SAME
 CROWN: .0156 FT/FT

COORDINATES: LATITUDE
 LONGITUDE

DESIGN OBJECT: PALMER ENGINEERING
 1500 CORNELL PARK DR
 CINCINNATI, OH 45242
 PROJECT NO.: MAR-4D-070
 SHEET NO.: 5100240

DATE: _____
 REVIEWED: _____
 STRUCTURE FILE NUMBER: 5100240

DESIGNED: WAH
 CHECKED: BJF

STA. 586+15.00
 STA. 590+55.00

SITE PLAN
 MAR-4D-0070
 PROSPECT STREET OVER N.Y. CENTRAL AND ERIE RAILROADS

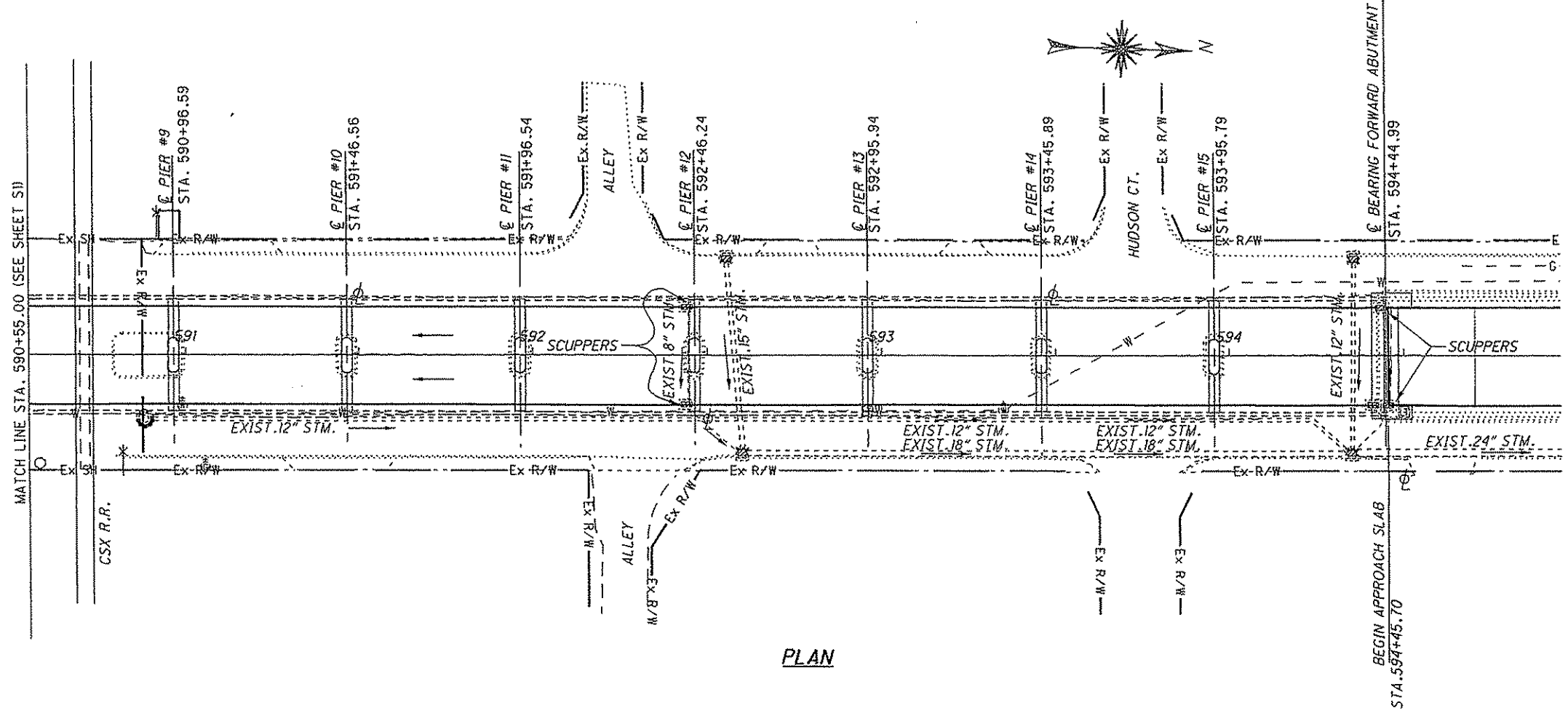
MAR-4D-070
 PID No. 79938

S1

10/26/2006 02:53:50 PM BY VIRGINIA-K
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 MODEL: SHEET

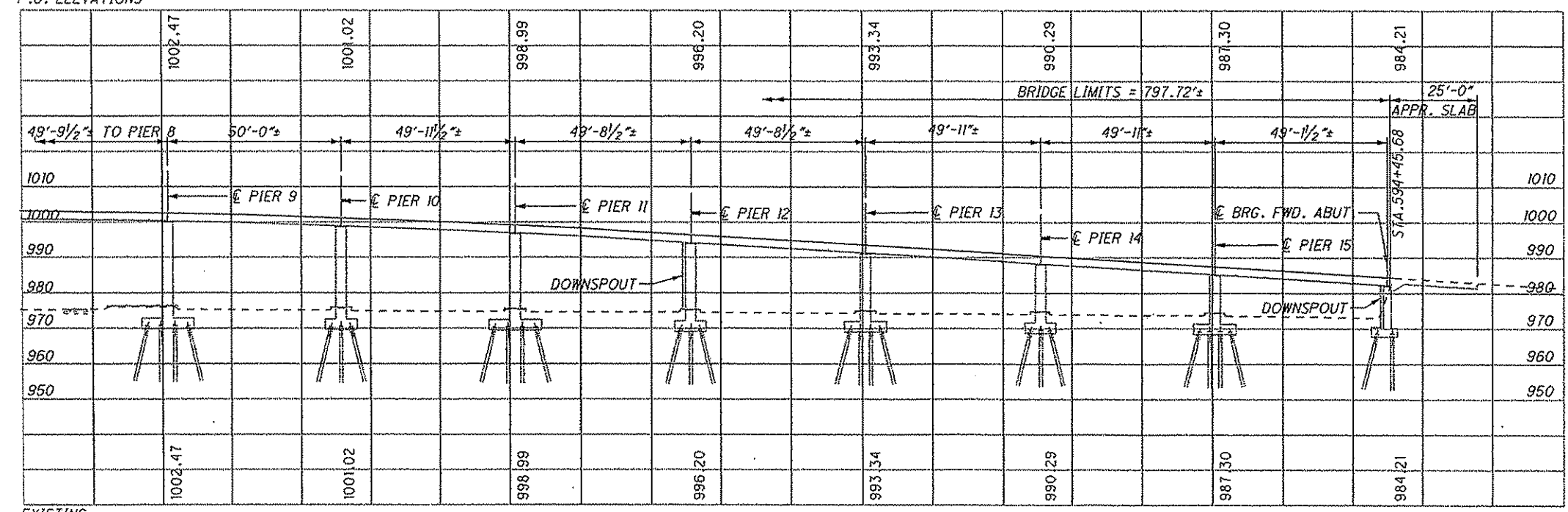
RECOMMENDED REPAIR SCOPE

1. REMOVE EXISTING LATEX MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION AND REPLACE WITH A 1/4" MICRO-SILICA CONCRETE OVERLAY.
2. PATCH AND SEAL EXISTING CONCRETE SAFETY CURBS AND PARAPETS.
3. CLEAN EXISTING EXPANSION JOINTS AND REPLACE ANY MISSING JOINT SEALER.
4. CLEAN DEBRIS FROM EXISTING SCUPPERS AND DOWNSPOUTS. PAINT STEEL DOWNSPOUTS TO PREVENT FURTHER DETERIORATION.
5. REMOVE ASPHALT FROM EXISTING APPROACH SLABS AND OVERLAY WITH MICRO-SILICA.
6. REPAIR DETERIORATED CONCRETE ON PIERS AND ABUTMENTS BY PATCHING OR EPOXY INJECTION.
7. INSTALL BRIDGE MARKER SIGNS.
8. REPLACE OR RESET MISSING OR DISLOCATED BEARING PADS.
9. REPAIR APPROACH PAVEMENT CONCRETE AND PAVE WITH ASPHALT OVERLAY. CONTINUE APPROACH PAVING THROUGH THE INTERSECTION ON THE NORTH END WITH GEORGE STREET.
10. EPOXY SEAL ABUTMENT FACES.



PLAN

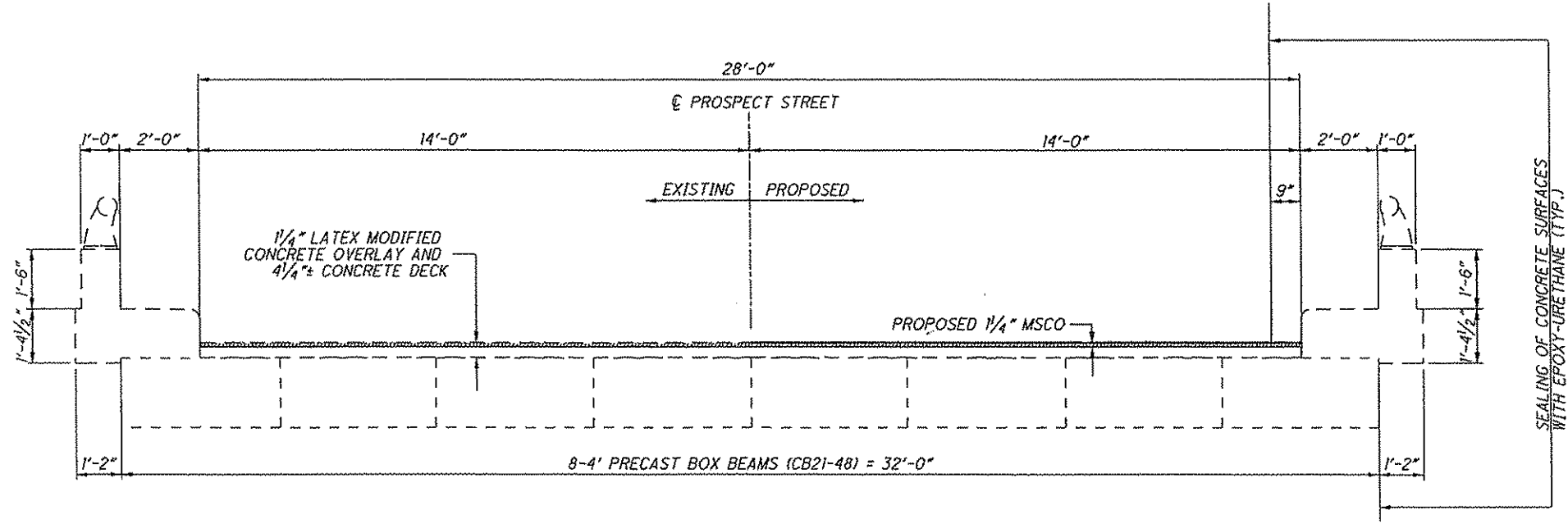
PROPOSED P.G. ELEVATIONS



PROFILE ALONG C CONSTRUCTION PROSPECT STREET

DESIGN: PALMER ENGINEERING
 1530 CORNELL PARK DR
 CINCINNATI, OH 45242
 ENGINEER: J. PALMER
 CHECKED: B. J. FLETCHER
 DATE: 5/10/04
 REVISION: 5100240
 STRUCTURE FILE NUMBER: 5100240
 STA. 590+55.00
 STA. 594+95.00
 SITE PLAN
 MAR-4D-0070
 PROSPECT STREET OVER N.Y. CENTRAL AND ERIE RAILROADS
 MAR-4D-0.70
 PID No. 79938
 S2

10/26/2006 02:41:08 PM BY:WIRGINJA-K
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 MODEL:1 SHEET



TRANSVERSE SECTION

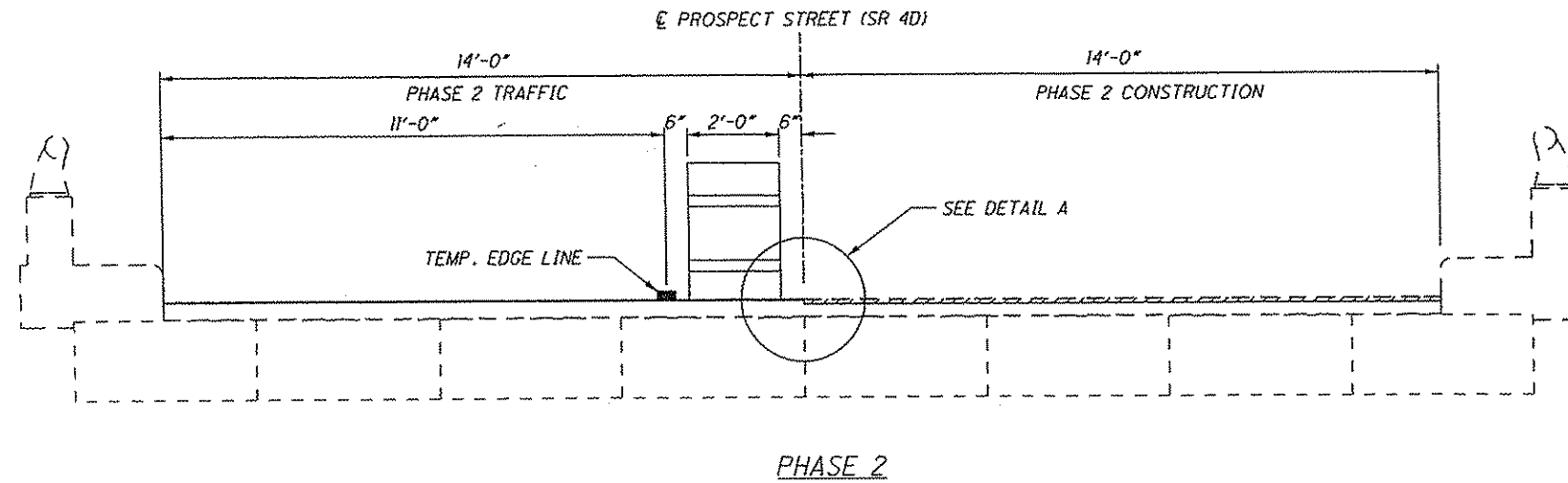
ITEM 848 EXISTING CONCRETE OVERLAY REMOVED

DESIGNED	WAH	CHECKED	BJF
DRAWN	ALZ	REVISED	
REVIEWED		DATE	
STRUCTURE FILE NUMBER	5100240		

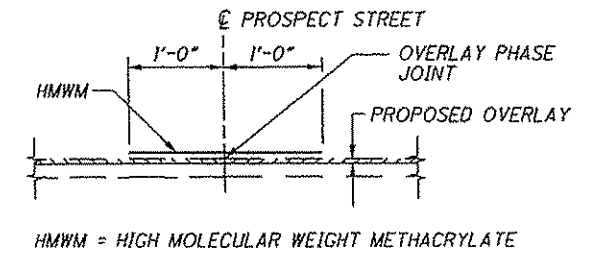
TRANSVERSE SECTION
 MAR-4D-0070
 PROSPECT STREET OVER N.Y. CENTRAL AND ERIE RAILROADS

MAR-4D-0.70
 PID No. 79938

10/26/2006 02:41:36 PM BY:WIRGINIA-K
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 MODEL SHEET

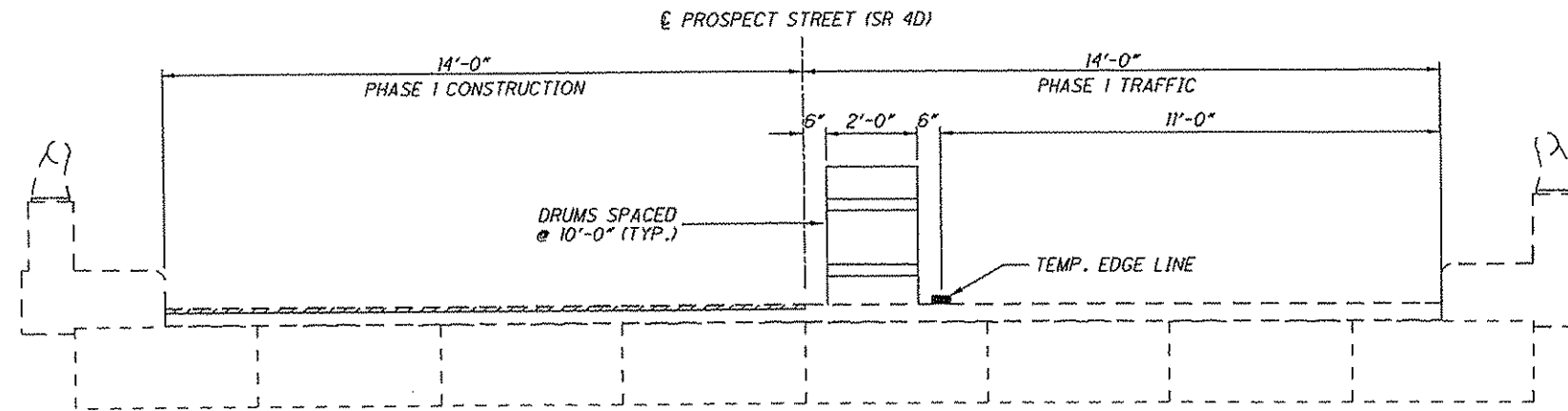


PHASE 2



HMWM = HIGH MOLECULAR WEIGHT METHACRYLATE

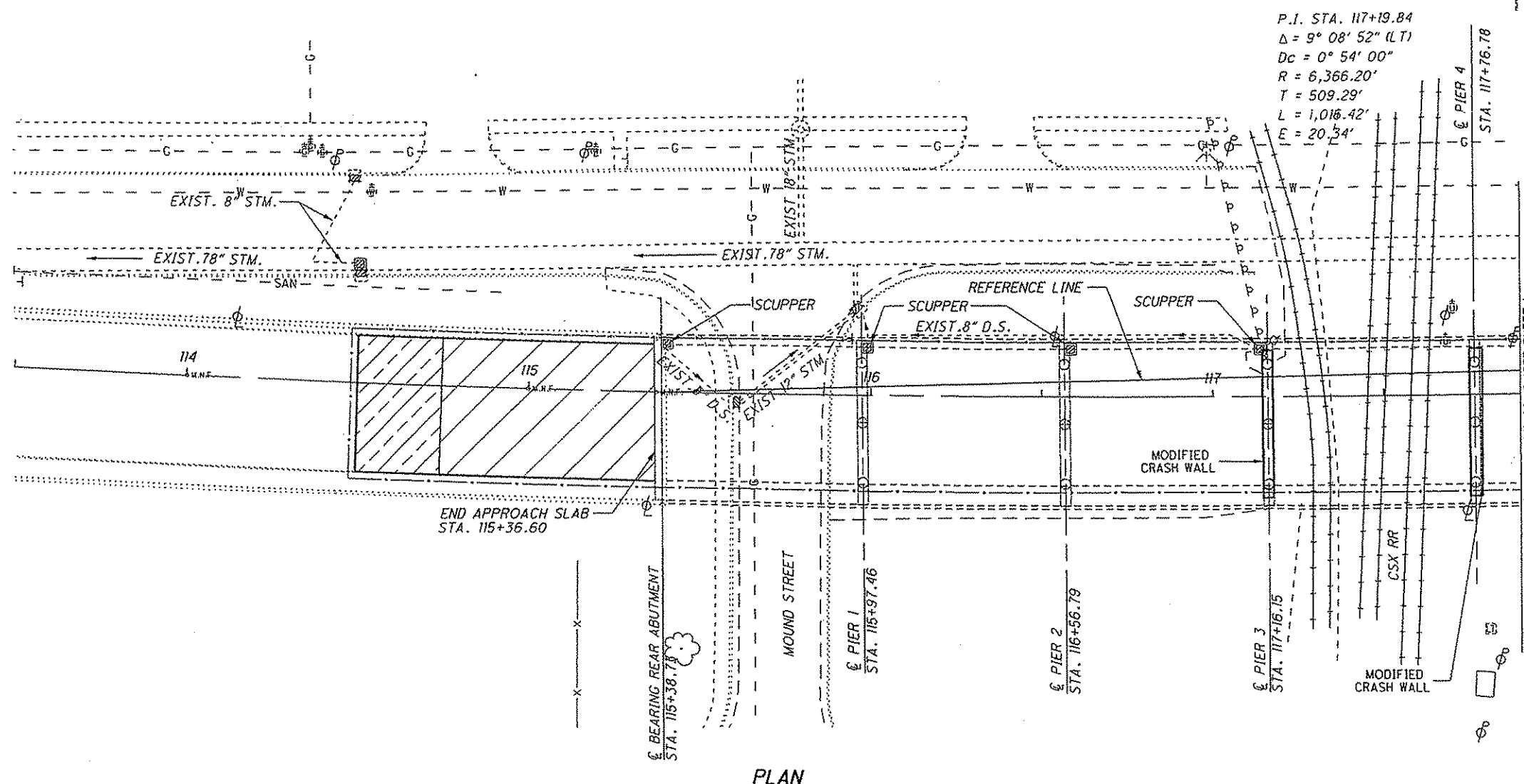
DETAIL A



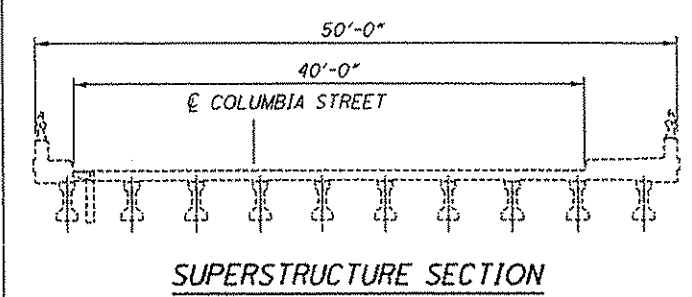
PHASE 1

REMOVE EXISTING LMCO AND REPLACE WITH MSCO

10/26/2006 02:35:09 PM BY:WIRGINIA-K
 D:\0001\MAR\79938\BRIDGE\MAR05_1436C\SHEETS\05_1436SP001.DGN
 MODEL 1 SHEET



P.I. STA. 117+19.84
 $\Delta = 9^\circ 08' 52''$ (LT)
 $D_c = 0^\circ 54' 00''$
 $R = 6,366.20'$
 $T = 509.29'$
 $L = 1,016.42'$
 $E = 20.34'$



BENCHMARK DATA

BM #1 STA.	ELEV.	OFFSET
BM #2 STA.	ELEV.	OFFSET
BM #3 STA.	ELEV.	OFFSET
BM #4 STA.	ELEV.	OFFSET

FOR ADDITIONAL BENCHMARK INFORMATION, SEE ROADWAY PLAN SHEET

NOTES
 EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS

DESIGN TRAFFIC:
 2008 ADT = 7794 2008 ADTT = 312
 2028 ADT = 11580 2028 ADTT = 464
 DIRECTIONAL DISTRIBUTION = 55%

EXISTING STRUCTURE

TYPE: PRESTRESSED CONCRETE I-BEAM WITH CONCRETE DECK AND OVERLAY ON REINFORCED CONCRETE ABUTMENTS AND CAP AND COLUMN PIERS ON PILING

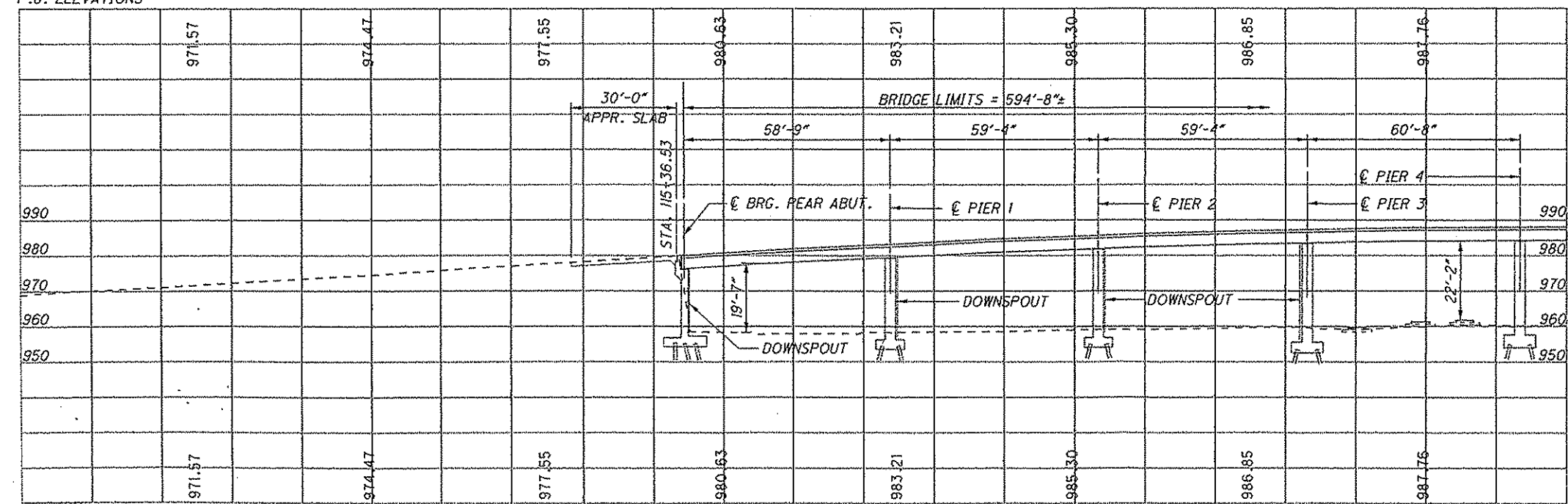
SPANS: 10 SPANS - SEE PROFILE FOR LENGTHS
 ROADWAY: 48'-0" F/ SAFETY CURB TO F/ SIDEWALK
 LOADING: HS20-44
 SKEW: 1°-03'-53" L.F. WITH RESPECT TO REFERENCE LINE
 APPROACH SLABS: AS-1-67, 30' LONG
 ALIGNMENT: 0°-54' CURVE LEFT
 CROWN: NORMAL
 STRUCTURAL FILE NUMBER: 5102561
 DATE BUILT: 1975
 DISPOSITION: FAIR

PROPOSED STRUCTURE

TYPE: PRESTRESSED CONCRETE I-BEAM WITH CONCRETE DECK ON REINFORCED CONCRETE ABUTMENTS AND CAP AND COLUMN PIERS ON PILING WITH NEW 1/4" MICROSILICA CONCRETE OVERLAY

SPANS: SAME
 ROADWAY: SAME
 LOADING: N/A
 SKEW: SAME
 APPROACH SLABS: SAME
 ALIGNMENT: SAME
 CROWN: .0156 FT/FT
 COORDINATES: LATITUDE
 LONGITUDE

PROPOSED P.G. ELEVATIONS



EXISTING P.G. ELEVATIONS

PROFILE ALONG C CONSTRUCTION COLUMBIA STREET

DESIGN ASSOCIATE: PALMER ENGINEERING
 1500 CORNELL PARK DR
 ENGINEERING CINCINNATI, OH 45242
 CINCINNATI, OH 45242

DATE: _____
 REVIEWED: _____
 DESIGNED: WAH
 CHECKED: B.J.F.

STRUCTURE FILE NUMBER: 5102561

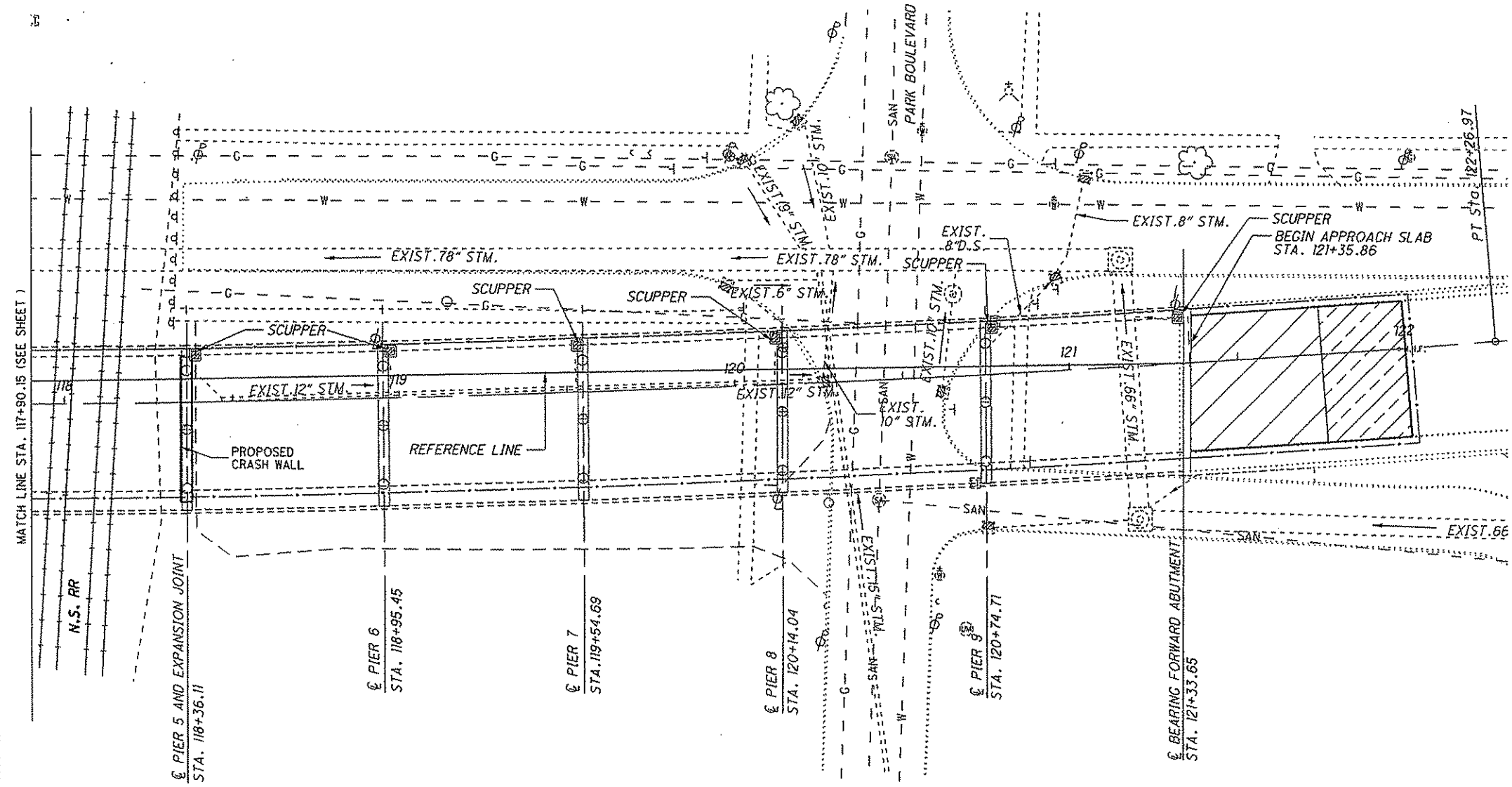
STA. 113+50.15
 STA. 117+90.15

SITE PLAN
 MAR-95-1436
 COLUMBIA STREET OVER C&O AND N&W RAILROADS

MAR-4D-0.70
 PID No. 79938

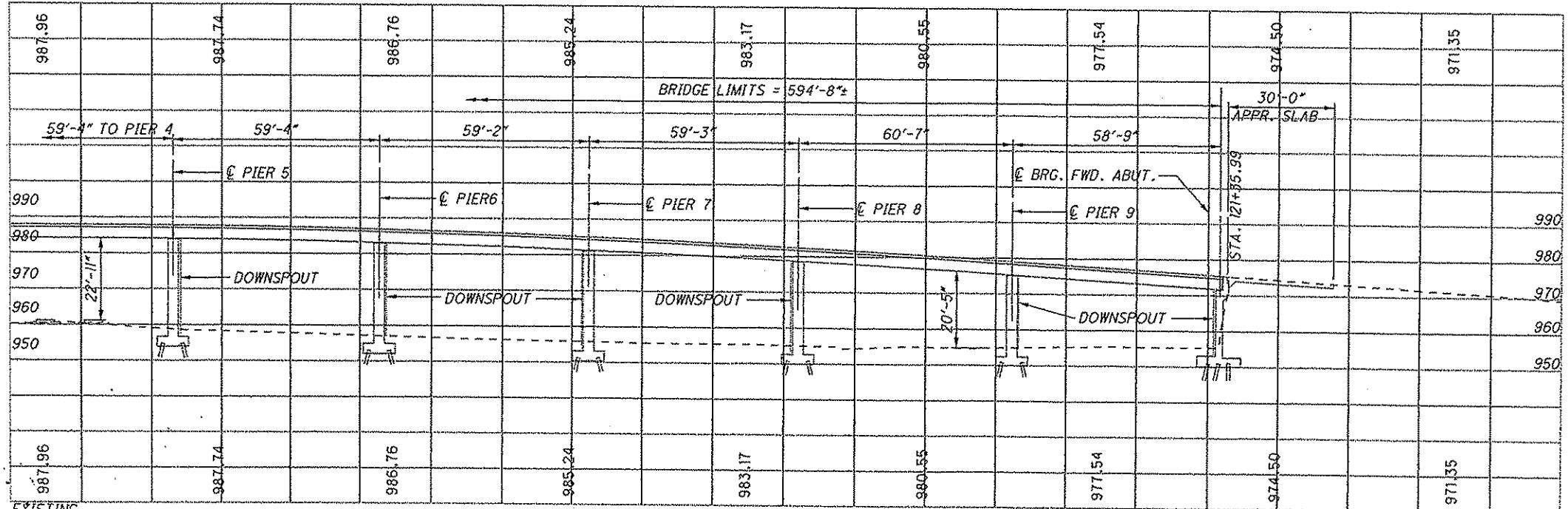
55

10/26/2006 03:39:49 PM BY:VIRGINIA-K
 0:\0001\WARY\79938\BRIDGE\WAP095_1436C\SHEETS\095_1436SP001.DGN
 MODEL SHEET



PLAN

PROPOSED P.G. ELEVATIONS

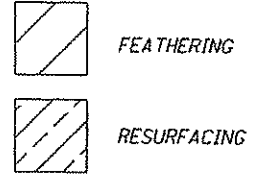


PROFILE ALONG C CONSTRUCTION COLUMBIA STREET

RECOMMENDED REPAIR SCOPE

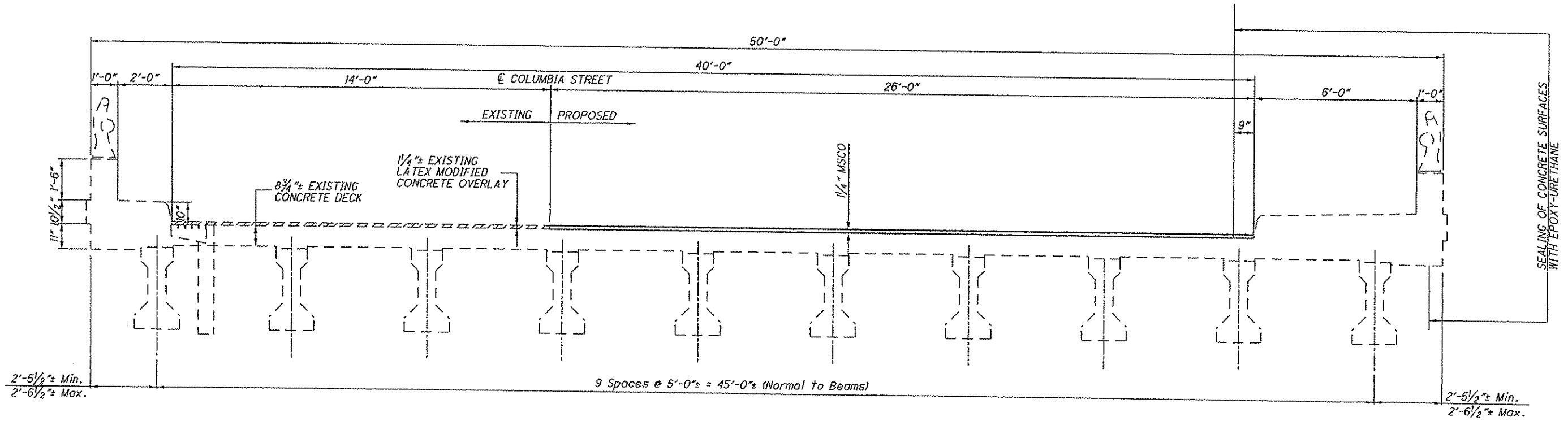
1. REMOVE EXISTING LATEX MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION AND REPLACE WITH A 1/4" MICRO-SILICA CONCRETE OVERLAY.
2. PATCH AND SEAL EXISTING CONCRETE SAFETY CURB, SIDEWALK, AND PARAPETS.
3. CLEAN AND REPAIR EXISTING EXPANSION JOINTS:
4. REPLACE DAMAGED OR MISSING DOWNSPOUTS AND DRAIN PIPES. CLEAN DEBRIS FROM EXISTING SCUPPERS AND DOWNSPOUTS THAT ARE TO REMAIN. PAINT STEEL DOWNSPOUTS TO PREVENT FURTHER DETERIORATION.
5. REMOVE ASPHALT FROM EXISTING APPROACH SLABS AND OVERLAY WITH MICRO-SILICA.
6. REPAIR DETERIORATED SUBSTRUCTURE CONCRETE BY PATCHING OR EPOXY INJECTION.
7. INSTALL BRIDGE MARKER SIGNS.
8. CLEAN DEBRIS AT BEAM SEATS.

LEGEND



DESIGNER: PALMER ENGINEERING
 1320 CORNELL PARK DR
 CINCINNATI, OH 45242
 ENGINEER: PALMER ENGINEERING
 1320 CORNELL PARK DR
 CINCINNATI, OH 45242
 CHECKED: BJF
 DATE: 11/7/06
 STRUCTURE FILE NUMBER: 5102961
 STA. 117+90.15
 STA. 122+30.15
 SITE PLAN
 MAR-05-1436
 COLUMBIA STREET OVER C&O AND N&W RAILROADS
 MAR-4D-0.70
 PID No. 79938
 56

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 MODEL SHEET



TRANSVERSE SECTION

ITEM 848 EXISTING CONCRETE OVERLAY REMOVED

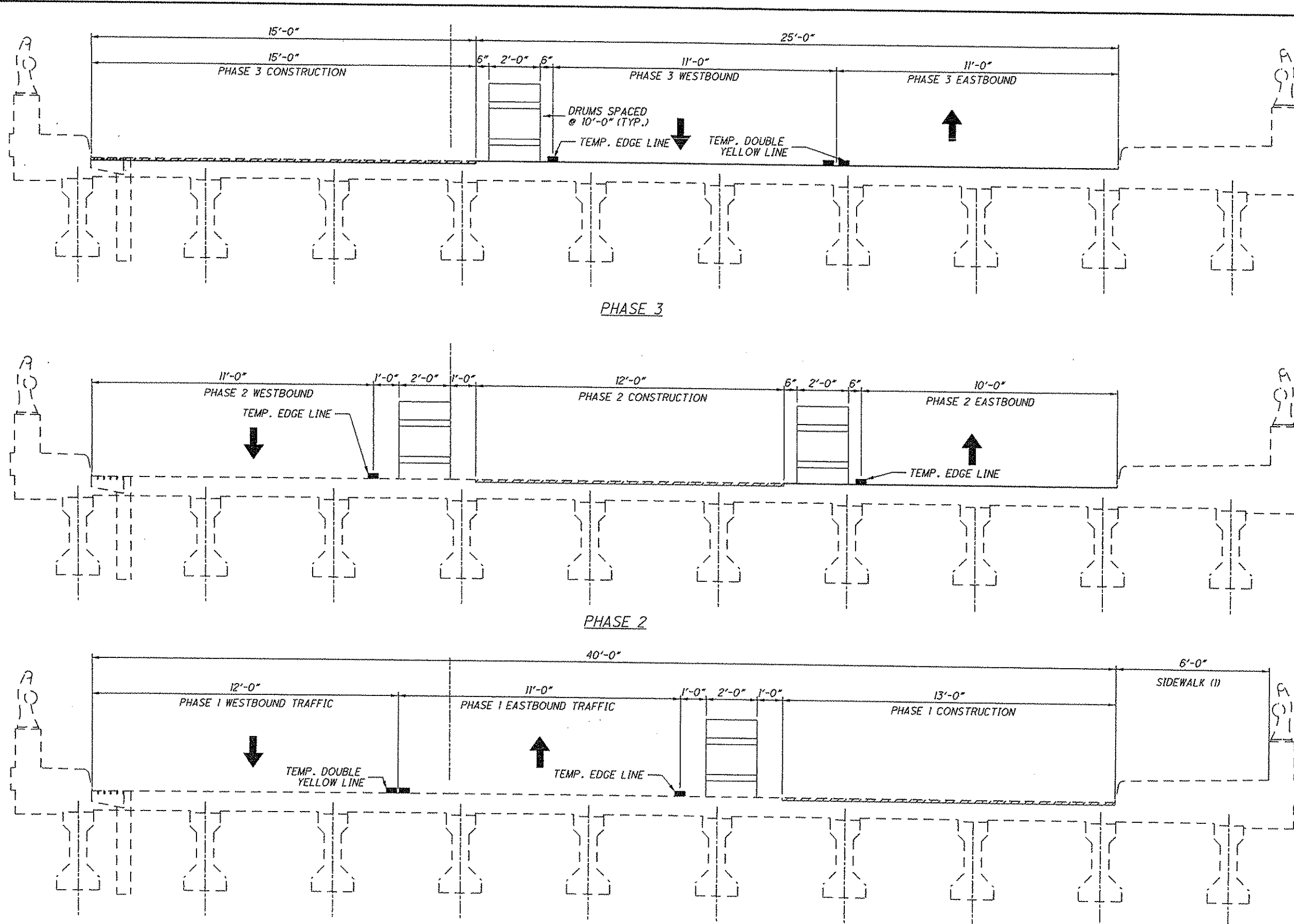
DESIGN AGENT
Palmer Engineering
 1700 SOUTH RIVER PL
 SUITE 100
 CHARLOTTE, NC 28217
 704.536.1111

DESIGNED	CHECKED	DRAWN	REVIEWED	DATE
WAH	BJF	ALZ		
		REVISED		
			STRUCTURE FILE NUMBER	5102561

TRANSVERSE SECTION
 MAR-95-1436
 COLUMBIA STREET OVER C&O AND N&W RAILROADS

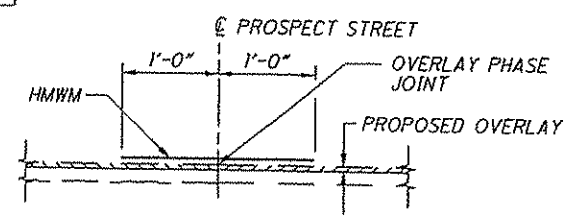
MAR-4D-0070
 PID No. 79938

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 MODEL 1 SHEET



NOTES

- (1) CLOSE SIDEWALK DURING PHASE 1 TO PERFORM REPAIRS. OPEN WALK FOR PHASES 2 AND 3.
 - (2) SEAL OVERLAY PHASE JOINT WITH HMWM (HIGH MOLECULAR WEIGHT METHACRYLATE) SEE DETAIL A.
- REMOVE EXISTING LMCO AND REPLACE WITH MSCO.



HMWM = HIGH MOLECULAR WEIGHT METHACRYLATE

DETAIL A

DESIGNED WAH	REVIEWED ALZ
CHECKED BJF	STRUCTURE FILE NUMBER 5102561
CONSTRUCTION PHASE DETAILS MAR-95-1436 COLUMBIA STREET OVER C&O AND N&W RAILROADS	
MAR-4D-0.70 PID No. 79938	
S8	

CITY OF MARION
SEC 22, T5S, R15 E

BAKERS 1ST ADDITION
PLAT 1, PAGE 9

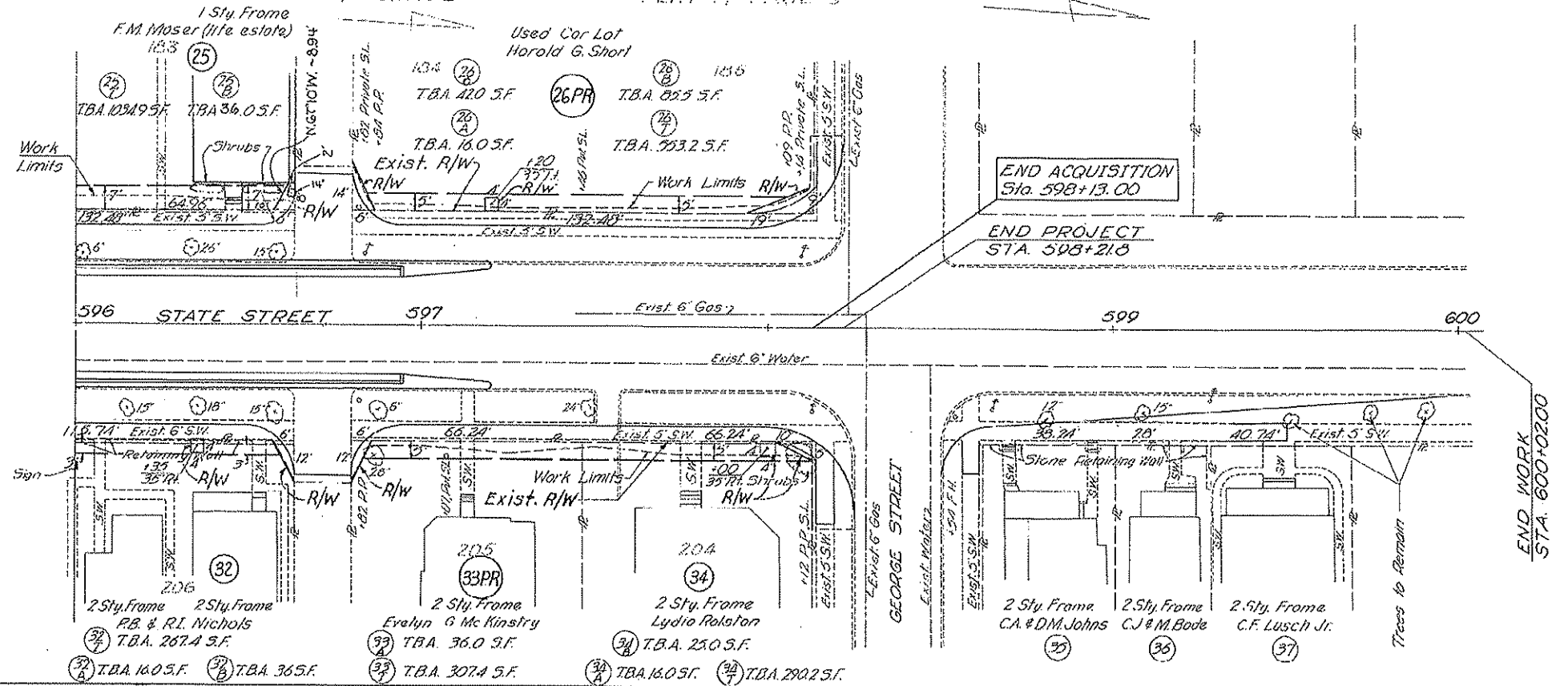
FED. RD. DISTRICT	STATE	PROJECT
2	OHIO	

MAR-23-11.05
MAR-23D-0.87

121
7
8

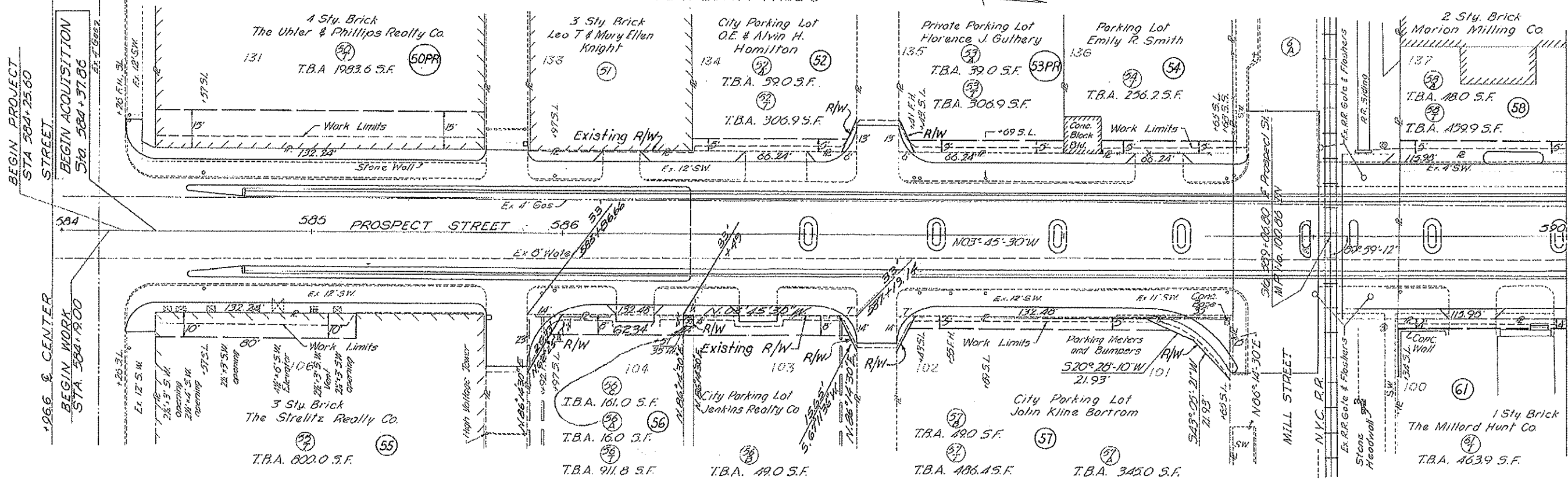
Attached is the Recording Data for the above project.

Correctly show the Existing Right of Way



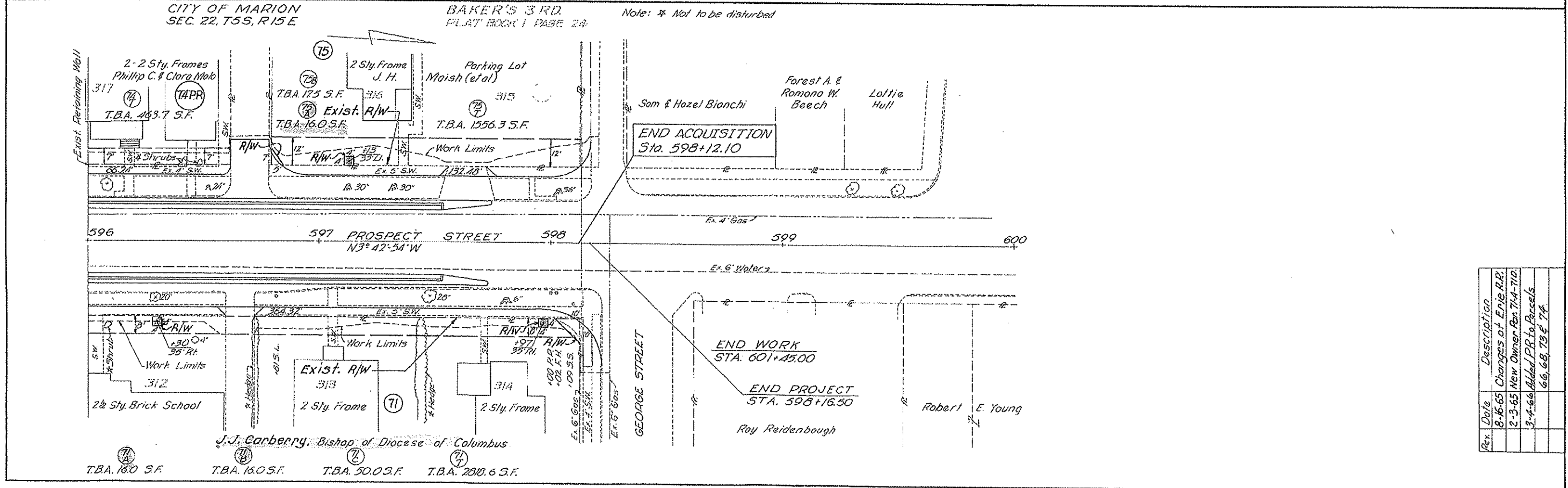
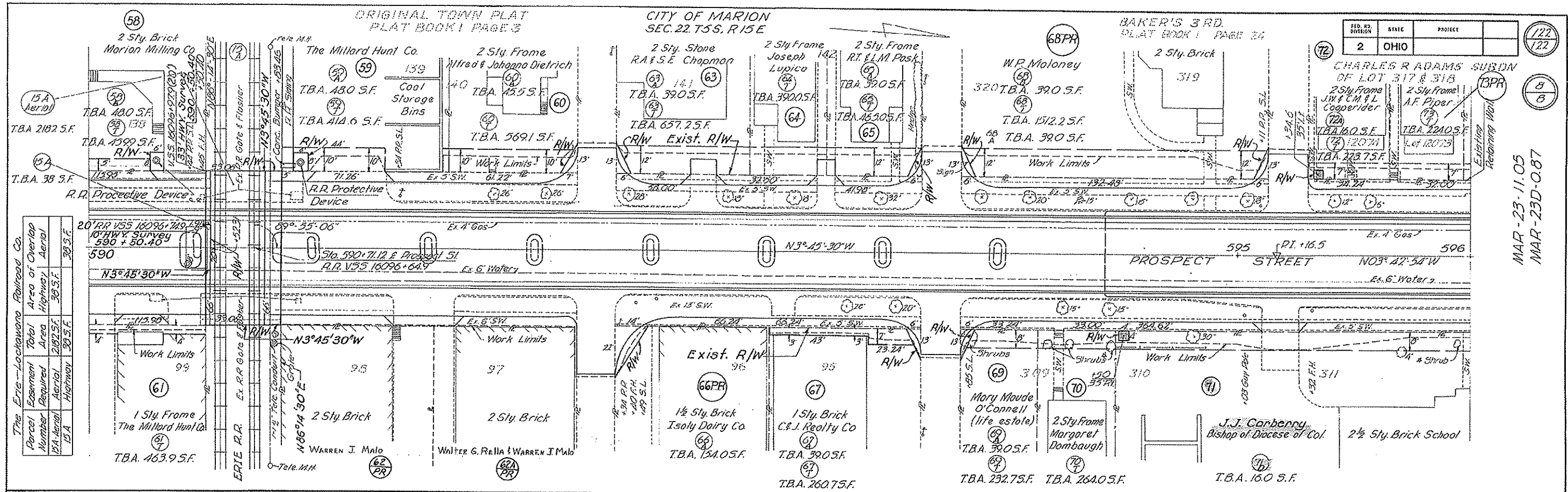
CITY OF MARION
SEC 22, T5S, R15 E

ORIGINAL TOWN PLAT
PLAT BOOK 1 PAGE 3



STATE STREET RIGHT OF WAY Sta. 596 to Sta. 600
PROSPECT STREET RIGHT OF WAY Sta. 584 to Sta. 590

Rev.	Date	Description
1	2-13-66	Revised 256
2	6-10-66	ADDED N&E To Pr 56
3	3-4-66	Added RR to Roads 26-
		33-52+53



PROSPECT STREET RIGHT OF WAY Sta. 590 to Sta. 600

REG. NO.	STATE	PROJECT
2	OHIO	

MAR-23-11.05
MAR-23D-0.87

Rev.	Date	Description
1	8-16-65	Changes of Erie R.R.
2	2-3-65	New Owner For 714-710
3	3-4-66	Added P.R. to Parcels 66, 68, 73 & 74

PAYMENT RECORD

S.R. 23/23DA Sec. 11.05/0.87

Marion County, Ohio Div. # 6

Job No. 06592 Enc. No.

Fed. No.

Payment Auth.

Bill Number	Parcel Number	Payee On Bill	For	Amount	Forwarded To Columbus			State Warrant				Cancellation Or Remarks	
					Date	Returned	Resub.	Number	Received	Forwarded Date	R.R. No	Date	Reason
60980	24, A, T	Walter D. Malor	R/W	900.00	2-24-65			5303060	3-24-66	3-28-66	Cert.	4-19-66	Vol. 418 Pg. 10-14 (24PR+24A)
60981	28, A, T	The Ohio Conference Assoc. of the Seventh Day Adventist Church Mt. Vernon, Ohio	R/W	3735.00	2-24-65			5481894	3-23-66	3-24-66	Cert.	4-19-66	Vol. 418 Pg. 18-20 (Parcel 28A) 6-28-66 Vol 420 Pg 36 (Parcel 28PR)
60979	34A, 34B, 34T	Lynia Paliton	R/W	1015.00	2-24-65			5481926	3-23-66	3-24-66	Cert.	4-19-66	Vol. 418 Pg. 23-26
60909	27T-1	Chad A. Hero	T R/W	1.00	3-2-66			5303119	3-28-66	3-29-66	Cert.		
61176	7, A, B, T	Pure Oil Co, a Div. of Union Oil Co of California	R/W	37,500.00	3-30-66			5732670	5-9-66	5-10-66	Cert.	6-2-66	Vol. 419 Pg. 210-217
61177	69, A, T, 70T	Servey Electronic Distributing, Inc	R/W	2850.00	3-30-66			5671528	4-29-66	5-2-66	Cert.	5-21-66	Vol. 418 Pg. 568-70 (Parcel 69A) 5-21-66 Vol. 418 Pg. 597-8 (Parcel 69)
61178	23, T	Fred C. & Princess L. Sappington	R/W	1757.00	3-30-66			5682821	5-3-66	5-10-66	Cert.	6-2-66	Vol. 419 Pg. 224-5 (Parcel 23)
61179	29, T	Wm. R. Barber, Eleanor J. Clapsoddes, Vincent L. Wise & Ellena Belle Malone	R/W	1310.00	3-30-66			5682822	5-3-66	5-10-66	Cert.		
61180	65, A, T	Ronald T. Pask & Lucille M. Pask	R/W	1515.00	3-30-66			5661922	4-25-66	4-25-66	Cert.	4-28-66	Vol. 14 Pg. 221 (M.R. - Home Fed. Sav.) 5-21-66 Vol. 418 Pg. 599-600 (Parcel 65) 5-21-66 Vol. 418 Pg. 565-7 (Parcel 65A)
61243	67, 67T	C & J Realty Inc.	R/W	7540.00	4-7-66			5674043	5-2-66	5-10-66	Cert.	6-2-66	Vol. 419 Pg. 226-30
61244	8, A, B, T, AT	Treasurer Marion County	R/W	6114.00	4-12-66			5674044	5-2-66	5-10-66	Cert.	6-2-66	Vol. 419 Pg. 219-24 (Parcels 8A, B+8)
61308	60, A, T	Alfred J. Dietrich & Johanna Dietrich	R/W	830.00	4-26-66			5798652	5-24-66	5-25-66	Cert.	6-28-66	Vol. 420 Pg 45-47 (Parcel 60A) 6-7 7-5-66 Vol. 14 Pg. 613-4 (M.R.)
61309	31, A, T	John E. McGowan & Mary G. McGowan	R/W	1705.00	4-26-66			5798653	5-24-66	5-25-66	Cert.	6-28-66	Vol. 420 Pg 38-40 (Parcels 31A, 31)
61319	68, PR, A, B, T	Wm. P. Motoway, et al.	Deposit	4210.00	4-26-66			5777500	5-19-66	5-20-66	Return		Case # 38097 (Parsec / 25 A, B, C)



PAYMENT RECORD

S.R. 23/23DA

Sec. 11.05/0.87

Marión County, Ohio Div. 6

Job No. 06592 (0)

Enc. No.

Fed. No. ALL STATE

Payment Auth.

Bill Number	Parcel Number	Payee On Bill	For	Amount	Forwarded To Columbus			State Warrant				Cancellation Or Remarks	
					Date	Returned	Resub.	Number	Received	Forwarded Date	R.R. No	Date	Reason
61419	54,54T	Emily R. Smith	R/W	4000.00	5-2-66			5826525	6-2-66	6-7-66	Cert.	6-28-66	Vol. 420 Pg. 42-44
61420	64, T	Joseph Lupica & Kathleen Lupica	R/W	1515.00	5-3-66			5826526	6-2-66	6-7-66	Cert.	6-29-66	Vol. 420 Pg. 50 Parcel 64
61500	7, A, T	B. Edward Adams	Title Report	110.00	5-12-66			5873065	6-8-66	6-9-66	C.O.		
61487	74, T	Philip C. Malo, del	Deposit	3,020.00	5-18-66			6020775	7-12-66	7-18-66			Case No. 38186
61525	75 A, B, T	Jay H. Maish, Bertha H. Maish, Jay H. Maish Jr. & Geraldine E. Maish	R/W	3550.00	5-23-66			5935457	6-21-66	6-21-66	Cert.	7-15-66	Vol. 420 Pg. 296-299
61639	56, A, B, T	Thomas K. Jenkins	Cont. title report	10.00	6-16-66			6080757	7-19-66	7-20-66	C.O.		
61653	73 PR, T	Addie F. Piper, del	Deposit	1,110.00	6-30-66			6148611	8-2-66	8-5-66	Endorse		Case No. 38097
60213	33 PR, A, T	Erlynn G. McKinstry, del	Cont. Crch	33.09	8-1-66			6307278	8-25-66	8-26-66	C.O.		Case No. 38008
60447	52, A, T	O.B. Hamilton, del	deposit	3,400.00	10-3-66			6898864	12-21-66	12-27-66	Godwin		Case No. 38472
60446	71, A, B, C, D, T	Jos. J. Aubrey, Bishop, del	deposit	33,550.00	10-3-66								
60475	63, A, T	Rosa A. Chapman	R/W	2570.00	10-3-66			6598108	10-21-66	11-8-66	Cert	12-17-66	Vol. 424 Pg. 170-174
60483	53, A, T	Florence J. Fitzgerald	deposit	2800.00	10-4-66			6898865	12-21-66	12-27-66	Godwin		Case No. 38471
60490	66, A	The Young Drug Store	deposit	4,300.00	10-17-66								
60489	50, T	La Belle Phillips	deposit	50,000.00	10-17-66								
60576	62 H	Curtis French	Appraisal	200.00	10-27-66			6759921	11-25-66	11-28-66	C.O.		
60577	62 A	W. L. Armstrong	Appraisal	200.00	10-27-66			6759922	11-25-66	11-28-66	C.O.		
60578	2	W. L. Armstrong	Appraisal	200.00	10-27-66			6759923	11-25-66	11-28-66	C.O.		
61192	2, A, B, T	W. L. Armstrong	Appraisal	75.00	2-7-67			7295054	3-7-67	3-13-67	C.O.		
	57, A, B, T	"	"	75.00	"			"	"	"	"		
	26, A, B, T	"	"	300.00	"			"	"	"	"		

R/W 33

SCHEDULED SALE DATE: 3-22-66 Project Sold

PAYMENT RECORD

1

S.R. 23/23DA Sec. 11.05/0.87

Marion

County, Ohio Div. 6

Job No. 06592(0)

Enc. No.

Fed. No. All State

Payment Auth.

Bill Number	Parcel Number	Payee On Bill	For	Amount	Forwarded To Columbus			State Warrant				Cancellation Or Remarks	
					Date	Returned	Resub.	Number	Received	Forwarded Date	R.R. No	Date	Reason
6-0232	16,16T	Florence L. Shob	Right of way	12,600.00	9-1-65			3423702	9-29-65	9-30-65			
6-0296	2,14T,5T,7, 8,16,17,18 19T,20T	Curtis French	Appraisal	3,675.00	9-21-65			3002901	10-6-65	10-6-65	Cert.C.O.		
6-0295	4,5,7,8,16, 17,18,19,20	W. L. Armstrong	Appraisal	3,675.00	9-21-65			3002900	10-6-65	10-6-65	Cert.C.O.		
6-0303	68,68A,68T	Thomas K. Jenkins	Title report	46.00	9-20-65			4815114	11-9-65	11-10-65	Cert.C.O.		
600321	71,A,B,C,T	Thomas K. Jenkins	Title report	75.00	9-20-65			4815115	11-9-65	11-10-65	Cert.C.O.		
6-0322	61	Thomas K. Jenkins	Title report	45.00	9-20-65			3451441	10-25-65	10-28-65	Cert.C.O.		
6-0369	29T-27T 18,T-28,T 17,T-19T 24,T-23T 22,T-20T 30,T	B. Edward Roberts	Title report	705.00	9-23-65			4781211	11-3-65	11-4-65	Cert.C.O.		
6-0456	18,A,T	Florice K. Leonard	R/W	655.00	10-26-65			4890852	11-29-65	11-30-65	Cert.	1-17-66	Vol 416 Pg. 21-24 Ea.
60511	5T	Frank Bruno Inc	T R/W	2800.00	11-4-65			4942240	12-7-65	12-8-65	Cert.	1-7-66	Vol. 415 Pg. 468
60512	20,20T	Ida M. Habluetzel & Ruth E. Habluetzel	T R/W	1500.00	11-4-65			4931189	12-13-65	12-8-66	Cert.	3-16-66	Vol. 7 Pg. 217-19
60513	32A,B,C,T	Pinkney B. & Rose J. Nichols	R/W	5015.00	11-4-65			4931189	12-3-65	12-6-65	Cert.	1-17-66	Vol 416 Pg 16-20-Ea.
060521	21 thru 55	Curtis French	appraisal	4300.00	11-9-65			4871995	11-19-65	11-19-65	C.O.		
060522	21 thru 55	W. L. Armstrong	appraisal	4100.00	11-9-65			4871994	11-19-65	11-19-65	C.O.		
60557	8A,B,T,AT	Treas. Marion Co.	R/W	6114.00	11-17-65		Cancelled						
60559	4,PR,T,AT	Brush-Moore Newspapers Inc	R/W	49400.00	11-19-65	12-7-65	2-22-65	5461368	3-18-66	3-24-66	Cert.	4-19-66	Vol 418 Pg. 5-7
060561	19T	Walter & Florence Slab	R/W	1505.00	11-19-65			5589277	4-11-66	4-12-66	Cert.	5-21-66	Vol. 418 Pg. 571-2
60586	21A,21T	Neillie E. Gardiner	R/W	510.00	11-19-65			4953603	12-13-65	12-14-65	Cert.	3-9-66	Vol. 416 Pg. 587

PAYMENT RECORD

S.R.	Sec.	County, Ohio Div.	Job No.	Enc. No.	Fed. No.	Payment Auth.							
Bill Number	Parcel Number	Payee On Bill	For	Amount	Forwarded To Columbus			State Warrant			Cancellation Or Remarks		
					Date	Returned	Resub.	Number	Received	Forwarded Date	R.R. No	Date	Reason
60810	17A,17T	Low J. Teitelbaum & James S. Teitelbaum	R/W	7000.00	1-17-66	returned	being resigned	5254099	2-8-66	6-29-66	via Tinscher		
60827	2A,B,T	John Kline Barbra	Deposit	3500.00	2-2-66			5458079	3-16-66		Godwin		
60828	70AB,30T	The Pure Oil Co.	Deposit	37500.00	2-2-66	Cancelled by TT	3-15-66						
60892	30A,30T	Walter A. Baldorf & Elsie R. Baldorf	R/W	1250.00	2-2-66			5373021	5-4-66	5-5-66	Cert.	5-18-66	Vol. 418 Pg 562-4 (Parcel 30A) Vol. 418 Pg 595-6 (parcel 20)
60829	22A,TPR	Mar. Const, U Gen Labness' Union Home Co.	Deposit	1816.00	2-2-66			5455962	3-17-66		Godwin		Case No. 38018
60742	22A,PR,T	Mar. Const, U Gen Lab.	Add. Deposit	519.83	11-22-66			6837530	12-12-66	12-13-66	C.O.		J.E. Vol 425 Pg. 421
60829	23PR	Fred C. Sappington	Deposit	1605.00	2-3-66			5387329	3-4-66	3-8-66	Godwin		Case No. 37994 (dismissed)
C-06-21	23PR,T	Fred C. Sappington	Ret. of deposit by clerk	1605.00	4-5-66								Clerk's Check No. 6374
060893	27A,27T	Chad Hero	R/W	10,000.00	2-3-66			5333165	3-24-66	3-28-66	Cert.	4-19-66	Vol. 418 Pg. 15-17 Vol. 14 Pg 212-3 (Mort. Rel.)
60898	25,A,B,T	Florence M. Moser	Deposit	5,060.00	2-4-66			5455963	3-17-66				
C-06-25	25,A,B,T,C,PR	" " "	Cancellation of Warrant	5,060.00	5-3-66								Warrant cancelled
60899	26,A,B,C,T	Harold G. Short	Deposit	6,670.00	2-4-66			5458077	3-16-66		Returned		
60900	28A,T	Seventh Day Adventist Church	Deposit	3,365.00	2-4-66	Cancelled 204-66	by teletype						Case No. Warrant cancelled
060019	31PR,A,T	John E. McGowan	Court costs	21.40	7-5-67			4152902	8-1-67	8-2-67	C.O.		
60901	31,A,T	John E. McGowan	Deposit	1,505.00	2-4-66			5458080	3-16-66	3-17-66	Godwin		Case # 38013
C-06-24	31PR,A,T	John E. McGowan	Ret. of deposit	1,505.00	4-28-66								Clerk of Cts. Clk. # 6498
60903	34A,B,T	Lydia Ralston, etal	Deposit	820.00	2-14-66								
60938	33,A,T	Evelyn McKinsty	Deposit	1,015.00	2-14-66			5455061	3-15-66	3-16-66	Godwin		Case No. 18008 - J.E. No Appeal Vol. 423, Page 66
60902	29,T	Wm. R. Barber, etal	Deposit	1,260.00	2-10-66	Cancelled TT 3-21-66		5458081	3-16-66		Returned		Cpy18(3-24-66)
60618	29,T	Wm. R. Barber etal	Ret. of warrant	1,260.00	3-24-66								
6-0960	57;58; 59&61; 60;63;64; 65;66;67; 68;69;70; 71;72;73; 74;75	W. L. Armstrong	Appraisal	5,225.00	2-16-66			5516064	3-24-66	3-25-66	Cert.		

PAYMENT RECORD

S.R. 23/23DA		Sec. 11.05/0.88		Marion County, Ohio Div. 6		Job No. 06592		Enc. No.		Fed. No.		Payment Auth.	
Bill Number	Parcel Number	Payee On Bill	For	Amount	Forwarded To Columbus			State Warrant				Cancellation Or Remarks	
					Date	Returned	Resub.	Number	Received	Forwarded		Date	Reason
								Date	R.R. No.				
6-0961	56;58; 59-61;63; 66;67;68; 72;73;74;75;	Curtis French	Appraisal	5,225.00	2-16-66			5516065	3-24-66	3-25-66	Cert.C.O.		
060980	24,A,T	Walter G. Malo	R/W	900.00	2-24-65			5503060	3-24-66	3-28-66	Cert.	4-19-66	Vol. 418 Pg. 10-14(24Pr&24A)
60981	28,A,T	The Ohio Conference Assoc. of the Seventh Day Adventist Church Mt. Vernon, Ohio	R/W	3735.00	2-24-65			5481894	3-23-66	3-24-66	Cert.	4-19-66 6-28-66	Vol. 418 Pg 18-20(parcel 28A) Vol. 420 Pg 36 (parcel 28PR)
060979	34A,34B, 34T	Lydia Ralston	R/W	1015.00	2-24-65			5481926	3-23-66	3-24-66	Cert.	4-19-66	Vol. 418 pg.23-26
061009	27T-1	Chad A. Hero	R/W	1.00	3-2-66			5503119	3-28-66	3-29-66	Cert.		
061176	7A,B,T	Pure Oil Co. a Div of Union Oil Co. of California	R/W	37500.00	3-30-66			5732670	5-9-66	5-10-66	Cert.	6-2-66	Vol. 419 Pg. 210-217
061177	69,A,T,70T	Servex Electronic Distributing, Inc	R/W	2850.00	3-30-66			5671528	4-29-66	5-2-66	Cert.	5-21-66	Vol. 418 Pg. 597-8(parcel 69)
061178	23,T	Fred C. & Princess L. Sappington	R/W	1757.00	3-30-66			5682821	5-3-66	5-10-66	Cert.	6-2-66	Vol. 419 Pg. 224-5(parcel 23)
060060	23PR,T	Fred C. Sappington	court costs	13.25	7-18-66			6208243	8-10-66	8-12-66	C.O.		Case No. 37994
061179	29,T	Wm.R. Barber, Eleanor J. Clapsaddler, Vincent L. Wise & Ellena Belle McCune	R/W	1310.00	3-30-66			5682822	5-3-66	5-10-66	Cert.	3-11-67	Vol. 425 Pg. 541-3
061180	65,A,T	Ronald T. Pask & Lucille M. Pask	R/W										
60543	63, 63T	B. Edward Roberts	TITLE Continuation	\$10.00	10/17/66			6675176	11-3-66	11-4-66	C.O.		
060489	50PR,T	Uhler-Phillips Realty Co., et al.	Deposit	\$50,000.00	10-17-66			6959758	1-3-67	1-6-67	Godwin		Case No.

PAYMENT RECORD

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S.R. 23/23DA Sec. 11,05/0.87

MARION County, Ohio Div. 6

Job No. 06592(0)

Enc. No.

Fed. No. All State

Payment Auth.

Bill Number	Parcel Number	Payee On Bill	For	Amount	Forwarded To Columbus			State Warrant				Cancellation Or Remarks	
					Date	Returned	Resub.	Number	Received	Forwarded Date	R.R. No	Date	Reason
061A19	68PR,A, B,T	Wm. P. Moloney, et al.	Deposit	\$4,210.00	4-26-66			5777500	5-19-66	5-20-66	Godwin		Case No. 38097
060303	"	Thos. K. Jenkins	Title report	46.00	9-20-65			4815114	11-9-65	11-10-65	C.O.		
060215	"	W. L. Armstrong	Pre-Trial & Wit.	150.00	8-19-66			6394025	9-13-66	9-15-66	C.O.		
060216	"	Curtis French	Pre-Trial & Wit.	150.00	8-19-66			6394026	9-13-66	9-15-66	C.O.		
060532	"	Safety Cab Co.	Transporting jury	9.00	8-24-66			6402419	9-16-66	9-20-66	C.O.		
060381	"	Wm. P. Moloney, et al.	Add. Deposit on Jury Verdict	6,540.00	9-1-66			6398533	9-15-66	9-16-66			J.E. Vol.422, Page 97
060862	"	Wm. P. Moloney	Court costs	431.43	12-21-67			5023161	1-10-68	1-12-68	C.O.		
61108	73A,T	Lorraine H. Dorniny Julia J. Dorniny	r/w	1762.00	1-24-67			7173537	2-10-67	2-17-67	Cent	3-11-67	Val. 425 Pg. 554-6 3-11-67 Val. 425 Pg. 552-3 3-14-67 Val. 14 Pg. 523-4 (mtg Ref.)
060199	73-T	Thos. K. Jenkins	Title report	45.00	8-19-65			3412110	9-17-65	9-21-65	C.O.		
61658	73PR,T	Addie F. Piper, et al.	Deposit	1,110.00	6-30-66			6148611	8-2-66	8-5-66	Godwin		Case No. 38097
61857	73PR,T	Addie F. Piper	Add. Dep. on Settm.	400.00	6-8-67			7853143	6-27-67	6-28-67	C.O.		J.E. Vol.428 Pgs. 406
60862	73PR,T	Addie F. Piper	Court costs	54.98	12-21-67			5023161	1-10-68	1-12-68	C.O.		
60046	71,71A, 71B,71C, 71T, 66	Curtis French	Appraisal	200.00	7-11-67			4155987	8-1-67	8-2-67	C.O.		

PAYMENT RECORD

S.R. 23/23DA Sec. 11.05/0.87

Marion County, Ohio Div. 6

Job No. 06592(0) Enc. No.

Fed. No.

Payment Auth.

Bill Number	Parcel Number	Payee On Bill	For	Amount	Forwarded To Columbus			State Warrant				Cancellation Or Remarks	
					Date	Returned	Resub.	Number	Received	Forwarded		Date	Reason
								Date	R.R. No.				
061487	74PR,T	Philip C. Malo, et al.	Deposit	3,020.00	5-18-66			6020775	7-12-66	7-18-66	Godwin		Case No. 38186
060197	74PR,T	Thos. K. Jenkins	Title report	45.00	8-19-66			3412108	9-17-65	9-21-65	C.O.		
060621	22PR,A,T	W. L. Armstrong	Wit. and conf.	150.00	11-7-66			6783831	11-29-66	11-30-66	C.O.		
060622	22PR,A,T	Curtis French	Wit. and conf.	150.00	11-7-66			6783832	11-29-66	11-30-66	C.O.		
060683	56, 56A, 56B, 56C, 56T	W. L. Armstrong	Appraisal	250.00	11-15-66			6875072	12-14-66	12-19-66	C.O.		
061176	2, A, T	Curtis French	Appraisal	75.00	2-7-67			7295055	3-7-67	3-8-67	C.O.		
	57, A, T	"	"	75.00	"			"	"	"	"		
	26, A, T, B	"	"	550.00	"			"	"	"	"		
061219	3	B. Edward Roberts	Title Report	50.00	2-9-67			7299546	3-8-67	3-9-67	C.O.		
"	51	"	"	50.00	"			"	"	"	"		
"	62	"	"	50.00	"			"	"	"	"		
"	62A	"	"	50.00	"			"	"	"	"		
061225	1	B. Edward Roberts	Title Report	50.00	2-16-67			7335561	3-15-67	3-16-67	C.O.		
	9	"	"	50.00	"			7335561	3-15-67	3-16-67	C.O.		
	10	"	"	50.00	"			"	"	"	"		
	11	"	"	50.00	"			"	"	"	"		
061533	57, A, B, T	John Kline Bartram	R/W	12,600.00	4-12-67			7553506	5-2-67	5-5-67	Cont	7-15-67	Vol. 429 Pg 325-9

PAYMENT RECORD

S.R. 23/33.0A Sec. 11.05/6.87

Marion

County, Ohio Div. 6

Job No. 1659A

Enc. No.

Fed. No.

Payment Auth.

Bill Number	Parcel Number	Payee On Bill	For	Amount	Forwarded To Columbus			State Warrant				Cancellation Or Remarks	
					Date	Returned	Resub.	Number	Received	Forwarded Date	R.R. No	Date	Reason
-0157	146	Thomas K. Jenkins	Title Report	45.00	8-10-65			3399363	9-8-65	9-10-65	Cont. C.O.		
-0158	54T	Thomas K. Jenkins	Title Report	45.00	8-10-65			3008140	9-10-65	9-15-65	Cont. C.O.		
-0159	147, T	Thomas K. Jenkins	Title Report	45.00	8-10-65			3397493	9-7-65	9-10-65	Cont. C.O.		
-0160	69, T	Thomas K. Jenkins	Title Report	45.00	8-10-65			3397494	9-7-65	9-10-65	Cont. C.O.		
-0161	70T	Thomas K. Jenkins	Title Report	45.00	8-10-65			3407780	9-10-65	9-15-65	Cont. C.O.		
-0186	52	Thomas K. Jenkins	Title Report	45.00	8-16-65			3412107	9-17-65	9-21-65	Cont. C.O.		
-0197	44T	Thomas K. Jenkins	Title Report	45.00	8-19-65			3412108	9-17-65	9-21-65	Cont. C.O.		
-0198	65, T	Thomas K. Jenkins	Title Report	45.00	8-19-65			3412109	9-17-65	9-21-65	Cont. C.O.		
-0199	73T	Thomas K. Jenkins	Title Report	45.00	8-19-65			3412110	9-17-65	9-21-65	Cont. C.O.		
-0200	53, T	Thomas K. Jenkins	Title Report	45.00	8-19-65			3412111	9-17-65	9-21-65	Cont. C.O.		
-0201	60, T	Thomas K. Jenkins	Title Report	45.00	8-19-65			3412112	9-17-65	9-21-65	Cont. C.O.		
-0202	63, 63T	Thomas K. Jenkins	Title Report	45.00	8-19-65			3412113	9-17-65	9-21-65	Cont. C.O.		
-0203	58, T	Thomas K. Jenkins	Title Report	45.00	8-19-65			3412114	9-17-65	9-21-65	Cont. C.O.		
-0204	64T	Thomas K. Jenkins	Title Report	45.00	8-16-65			3412115	9-17-65	9-21-65	Cont. C.O.		
-0205	75, A, T	Thomas K. Jenkins	Title Report	60.00	8-16-65			3002551	9-17-65	9-21-65	Cont. C.O.		
-0211	55T	Thomas K. Jenkins	Title Report	45.00	8-16-65			3412116	9-17-65	9-21-65	Cont. C.O.		
-0247	59, T, 5D	Thomas K. Jenkins	Title Report	100.00	9-9-65								
-0248	25, A, T, 1 26, A, T, 1 7, A, T	B. Edward Roberts	Title Report	215.00	9-8-65								
0249	2, A, T 56, A, A, T 57, A, T 72, T, 1	Thomas K. Jenkins	Title Report	195.00	9-21-65								
-0254	34, A, T 33, T 16, T 32, A, A, T	B. Edward Roberts	Title Report	255.00	9-8-65								
-0295	4, 5, 7, 1 8, 16, 17, 1 18, 19, 20	W. A. Armstrong	Appraisal	3,675.00	9-15-65								
-0296	201, 1 4, 1, A, T, 5T 7A, T, 16T 17T, 18T 19, 20T	Curtis French	Appraisal	3,675.00	9-15-65								
60002	58, A, T	Marion Milling Co.	R/W	18,600.00	7-5-66			6120243	7-28-66	8-23-66	Cont.	9-16-66	Vol. 422 Pg. 103-7

PAYMENT RECORD



S.R.	Sec.	County, Ohio Div.	Job No.	Enc. No.	Fed. No.	Payment Auth.							
Bill Number	Parcel Number	Payee On Bill	For	Amount	Forwarded To Columbus			State Warrant				Cancellation Or Remarks	
					Date	Returned	Resub.	Number	Received	Forwarded		Date	Reason
							Date	R.R. No.					
060689	59, A, T -61T	The Millard Hurd Co.	R/W	19,800.	11-15-66			6937872	12-29-66	1-6-67	Cert.	3-11-67	Val. 425 Pg. 547-51
060740	55, T	The Strelitz Realty Co.	R/W	20,700.00	11-30-66			6900361	12-22-66	1-6-67	Cert.	1-4-67	Val. 424 Pg. 331-2
060787	1	Curtis French	Appraisal	550.00	12-6-66			6912666	12-23-66	12-28-66	C.O.		
	9	"	"	650.00	12-6-66			"	"	"	"		
	10	"	"	500.00	12-6-66			"	"	"	"		
	11	"	"	700.00	12-6-66			"	"	"	"		
	12	"	"	700.00	12-6-66			"	"	"	"		
	13	"	"	450.00	12-6-66			"	"	"	"		
	14	"	"	500.00	12-6-66			"	"	"	"		
	51	"	"	700.00	12-6-66			"	"	"	"		
	52	"	"	200.00	12-6-66			"	"	"	"		
	62	"	"	550.00	12-6-66			"	"	"	"		
	57	"	"	700.00	12-6-66			"	"	"	"		
260788	1	W.L. Armstrong	Appraisal	550.00	12-6-66			6912667	12-23-66	12-28-66	C.O.		
	9	"	"	650.00	12-6-66			"	"	"	"		
	10	"	"	500.00	12-6-66			"	"	"	"		
	11	"	"	700.00	12-6-66			"	"	"	"		
	12	"	"	700.00	12-6-66			"	"	"	"		
	13	"	"	450.00	12-6-66			"	"	"	"		
	14	"	"	500.00	12-6-66			"	"	"	"		
	51	"	"	700.00	12-6-66			"	"	"	"		
	52	"	"	200.00	12-6-66			"	"	"	"		
	62	"	"	550.00	12-6-66			"	"	"	"		
260887	57, A, B, T	John & Gene Bratton, et al	deposit	9,750.00	1-11-67	Cancelled 4/18-67 jw		7254369	2-28-67	3-2-67	Ordwin		Case No
261000	56, A, B, C, T	T. Wayne Jenkins & Huron B. Jenkins	R/W	12,450.00	1-12-67			7102256	1-31-67	2-3-67	Cert.	3-11-67	Val. 425 Pg. 557-61
061139	14	B. Edward Roberts	Title Report	50.00	2-3-67			7299545	3-8-67	3-9-67	C.O.		Val. 425 Pg. 544-6 (Rel. Lease from City of Marion)
261140	72, 72T	B. Edward Roberts	Title Report	10.00	2-3-67			7250345	2-27-67	2-28-67	C.O.		
261195	14PR	Karl Dune	R/W	8500.00	2-14-67			7301674	3-9-67	3-27-67	Cert. Atty. Dunell 5-3-67		Val. 427 Pg. 210-2

PAYMENT RECORD

S.R. 23/23DA Sec. 11.05/0.87 MARION County, Ohio Div. 6 Job No. 06592(0) Enc. No. Fed. No. All State Payment Auth.

Bill Number	Parcel Number	Payee On Bill	For	Amount	Forwarded To Columbus			State Warrant				Cancellation Or Remarks	
					Date	Returned	Resub.	Number	Received	Forwarded Date	R.R. No	Date	Reason
060021	2PR,A,B,T	John Kline Bartram	Court costs	65.40	7-5-67			4152903	8-1-67	8-2-67	C.O.		Case No. 38012
060249	2-A,B,T	Thos. K. Jenkins	Title report	195.00	8-31-65								
	56,A,B,T												
	57,A,T												
	72,T												
060827	2-A,B,T	John Kline Bartram, et al.	Deposit	3,500.00	2-2-66			5458079	3-16-66	3-17-66	Godwin		Case No. 38012
061515	2A,B,T	John Kline Bartram	Add. Dep. on Settm.	2,400.00	4-11-67			7623041	5-12-67	5-15-67			J.E. Vol. 427 Pg. 99
061267	26PR,A,B,T	Curtis French	Trial preparation	50.00	2-21-67			7335562	3-15-67	3-16-67	C.O.		
061268	26PR,A,B,T	W. L. Armstrong	Trial preparation	50.00	2-21-67			7335563	3-15-67	3-16-67	C.O.		
061341	12	B. Edward Roberts	Title Report	50.00	3-7-67			7461295	4-6-67	4-7-67	C.O.		
	13	"	"	50.00	"			7461295	4-6-67	4-7-67	C.O.		
061520	50PR,T	Uhler-Phillips Realty Co.	Add. Deposit on settlement	8,000.00	4-17-67			7553129	5-1-67	5-2-67	C.O.		J.E. Vol. 427, Pg. 102
60006	13 PR	Ray Mary Margaret V. Hills, Fred M. Gray, + Sheldon M. Danks	warr. & comp	6000.00	7-3-67			409337	7-20-67	11-6-67	Cul.D.	1-23-68	Vol 434 Pg. 441-2
60292	50PR-T	Uhler Phillips Realty Co.	Spec. Warden	400.00	8-28-67			4393104	9-13-67	9-20-67	Cul.D.		
60293	51	Leo T. Knight + Mary Ellen Knight	R/W	9500.00	8-28-67			4393105	9-13-67	9-20-67	Cul.D.	12-15-67	Vol. 434, Pg. 3
060399	26A,B,C,T	PR Harold G. Short	Add. dep. on settm.	7,330.00	9-25-67			4535430	10-9-67	10-10-67	C.O.		J.E. Vol. 433 Pg. 297
060413	66PR,A	W.L. Armstrong	Pre-trial & wit.	150.00	9-28-67			4609583	10-20-67	10-23-67	C.O.		
060414	66PR,A	Curtis French	Pre-trial & wit.	150.00	9-28-67			4609584	10-20-67	10-23-67	C.O.		
060540	66PR,A	The Isaly Dairy Co.	Add. deposit on jury verdict	2,865.54	10-9-67			4657746	10-1-67	11-2-67	C.O.		J.E. Vol 432, Pg. 427.
060862	66PR,A	The Isaly Dairy Co.	Court costs	411.66	12-21-67			5023161	1-10-68	1-12-68	C.O.		

3-22-66 PAYMENT RECORD



S.R. 23/23DA		Sec. 11.05/0.87		Marion County, Ohio Div. Six		Job No. 06592 (0)		Enc. No.		Fed. No.		All State		Payment Auth.	
Bill Number	Parcel Number	Payee On Bill	For	Amount	Forwarded To Columbus			State Warrant				Cancellation Or Remarks			
					Date	Returned	Resub.	Number	Received	Forwarded Date	R.R. No	Date	Reason		
0232	16, 16T	Fluence F. Hob	right of way	12,600.00	9-1-65			3423702	9-29-65	9-30-65					
0296	2, 4A, 5T, 7, 8, 16, 17, 18, 19T, 20T	Curtis French	appraisal	3675.00	9-21-65			3002901	10-6-65	10-6-65			Cent G.O.		
0295	4, 5T, 8, 16, 17, 18, 19, 20	W. S. Armstrong	appraisal	3675.00	9-21-65			3002900	10-6-65	10-6-65			Cent G.O.		
0303	16, 18A, 18T	Thomas K. Jenkins	Title Report	46.00	9-20-65			4815114	11-9-65	11-10-65			C.O.		
0321	7A, B, C, T	Thomas K. Jenkins	Title Report	75.00	9-20-65			4815115	11-9-65	11-10-65			Cent G.O.		
0322	61	Thomas K. Jenkins	Title Report	45.00	9-20-65			3451447	10-25-65	10-28-65			Cent G.O.		
0369	27T-27T, 16, T-28, T, 17, T-19T, 24T-23T, 22, T-20T, 30, T	B. Edward Roberts	Title Report	705.00	9-23-65			4781211	11-3-65	11-4-65			Cent G.O.		
0456	18, A, T	Florice K. Leonard	R/W	655.00	10-26-65			4890852	11-29-65	11-30-65			Cent.	1-17-66	Vol 416 Pg. 21-24 ea
0511	6T	Frank Bruno Inc	T R/W	2800.00	11-4-65			4942240	12-7-65	12-8-65			Cent.	1-7-66	Vol. 415 Pg. 468
0512	20, 20T	Ida M. Hahluelgel, Ruth E. Hahluelgel	T R/W & Spec Wainers	1500.00	11-4-65			4953602	12-13-65	2-8-66			Cent	3-16-66	Vol. 7 Pg. 217-19
0513	32A, B, C, T	Rinkney B. Rose, J. Nichols	R/W	5015.00	11-4-65			4931189	12-3-65	12-6-65			Cent.	1-17-66	Vol 416 Pg 16-20-ka.
0521	21 thru 55	Curtis French	appraisal	4300.00	11-9-65			4871995	11-19-65	11-19-65			C.O.		
0522	21 thru 55	W. S. Armstrong	appraisal	4100.00	11-9-65			4871994	11-19-65	11-19-65			C.O.		
0557	8A, B, T, AT	reas. Marion Co.	R/W	6114.00	11-17-65										Cancelled
0559	4, T, AT	Brush-Moore Newspapers Inc	R/W	49900.00	11-19-65	12-7-65	1-22-65	5461368	3-18-66	3-24-66			Cent.	4-19-66	Vol. 418 Pg. 5-7 4T
0561	19, T	Walter & Florence Hob	R/W	1505.00	11-19-65			5589277	4-11-66	4-12-66			Cent.	5-21-66	Vol. 418 Pg. 571-2

