

Ohio Department of Transportation  
Scope of Services Documents

November 15, 2005

Project Designation: County MAR Route 4D Section 0.70

PID#: 79938  
State Job #: 466010

Highway Function Classification: Urban Principal Arterial (SR4D & 95)  
Design Function Classification: Urban Principal Arterial (SR4D & 95)  
Legislation Status: Pending (City of Marion)  
Scope of Services Meeting Date: TBD - March 23, 2006.

PDP Category: Minor  
PDP Steps Included in this Agreement: Steps 2 through 1 thru 10.

The project shall be developed in accordance with the Department's most current Project Development Process Manual.

This Agreement will be implemented in Parts appropriate to the PDP. *Part 1* of the Agreement will extend through Step 4. *Part 1* will be compensated under a cost plus net fee form of agreement. The specific scope of work and cost proposal for each succeeding PDP step shall be developed as the current step is completed.

Number of Meetings under *Part 1*: Project kickoff meeting and approximately <sup>2</sup> interim review meeting. I will schedule w/ resolve w/mark meeting w/ City.

Completion Schedule for *Parts 1 & 2*: 12 months  
Anticipated Final Tracings Due Date: 09/07/2007  
Anticipated Sale Date: 01/01/2008  
Stan Carlise - City Engineer

*Part 2* will include Steps 5 through 8 and will be negotiated at a later date.

**Red Flag Summary** 10.

The Department has evaluated the project for "red flags" that may impact project development, and included a listing below of currently identified red flags. However, as project development continues additional red flags may be identified. The consultant shall continue to evaluate the project for the presence of such red flags throughout the project development process, and promptly bring such to the attention of the Department.

\* have not received, will be ready March 28.  
Currently Identified Red Flags - to be provided at the Scope of Services Meeting

**Project Objectives**

The structure at MAR-4D-0070 (5100240) is a 798' 16-span box beam bridge carrying SR4D (Prospect Street) over local roads and RR tracks. This bridge was built in 1968 and received a LMC overlay in 1991. The existing wearing surface is in poor condition and some of the substructure needs patched. The approach pavement also needs an overlay the downspouts need rehabilitated or replaced.

Downtown  
marion

ev Bob is evaluating a P.E. study. @ @ Wants overlay deck. GPR? - 40% to full depth.



Remove existing concrete overlay and replace with a new LMC overlay using hydro-demolition. Designer to determine variable and full depth quantities.		
Remove existing concrete overlay and replace with a new SDC overlay using hydro-demolition. Designer to determine variable and full depth quantities.		
Remove existing concrete overlay and replace with a new concrete overlay using hydro-demolition. Designer to determine overlay type and variable and full depth quantities.		
Remove existing asphalt overlay.		
Mill and replace _____ inches of asphalt.		
Patch deck with concrete. Designer to determine quantities.		
Patch deck with concrete and place epoxy overlay. Designer to determine patching quantities.		
Add an asphalt wearing surface (minimum thickness = 3")		
Add an asphalt wearing surface (minimum thickness = 3") and waterproofing (Type 3 / Type D / Liquid)		
Seal deck with SRS		
Seal deck with gravity fed resin		
Seal deck cracks with HMWM		
Patch, repair, or replace deck edges. Designer to determine quantities.		
<b>Approach Slabs</b>		
Provide for minimal approach work to transition the approach roadway to match the bridge	X	X
Replace existing approach slabs with full width slabs and the same concrete type as the deck		*
Overlay approach slabs with same treatment as the deck	X	X
The approach slabs may be poured at the same time as the deck with a sawed joint		
Upgrade the approach guardrail to the current standards and provide details for the bridge terminal assemblies		
<b>Railing, Sidewalks, Curbs &amp; Median</b>		
Completely replace the existing parapet. Type to be determined by Designer		*
Retrofit the existing railings to a single slope shape		
Add a _____ ft sidewalk to one / both sides of the bridge		
Replace the existing sidewalk(s)		
Patch and repair the existing curbs. Designer to determine quantity.	X	X
Patch and repair the existing sidewalk(s). Designer to determine quantity.		
Replace existing median		
Remove existing median		
Design new median		
<b>Fencing &amp; Lighting</b>		
In accordance with section 3.5.2 of the Bridge Design Manual, evaluate and determine if the use of vandal protection fencing is appropriate for this project. If authorized, provide details for providing Vandal Protection Fencing on this bridge.		X

take it back were we have decent pavement

want a smooth transition.

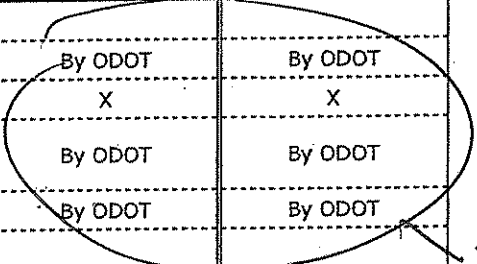
Analyze the steel beams for fatigue concerns as per the AASHTO "Specifications for Fatigue Evaluation of Existing Steel Bridges". Recommend necessary and appropriate retrofits.		
Retrofit all welded cover plate details with a bolted connection. Provide a quantity of steel, Item 513, for replacement of corroded or damaged cross frames.		
Trim the ends of the beams for expansion		
Retrofit or replace pin and link assemblies		
<b>Painting, Sealing, &amp; PCS</b>		
Paint existing steel with system OZEU, Federal color _____.		
Paint new steel with system IZEU, Federal color _____.		
Compare cost of painting structural steel vs. complete replacement.		
Designer to determine PCS type with life cycle cost analysis.		
The new beams shall be galvanized.		
The new beams shall be metallized.		
The new beams shall be weathering steel (A588).		
Seal all parapets with epoxy urethane, Federal color _____.		
Seal abutments with epoxy urethane, Federal color _____.		
Seal all concrete surfaces (except deck) with epoxy urethane, Federal color _____.		
Seal items with epoxy sealant.		
<b>Substructure (Abutments and Piers)</b>		
Inspect and sound the reinforced concrete abutments and piers. Provide a quantity for patching and show the locations to be patched on the plans and field paint (mark) the areas to be patched on the existing substructure units. Suspicious areas are to be cored, if authorized. Repair large cracks in concrete by epoxy injection.	X	X
Widen the substructure to accommodate the new superstructure members by extending the existing abutments and adding additional pier columns. The Designer is to provide pier widening options, if applicable.		
Investigate converting the abutments to a semi-integral abutment design. If a semi-integral abutment is used, consider using straight wingwalls. Remove the existing abutment down to the top of the existing beam seat and provide details for a new reinforced concrete backwall.		
The existing abutments are to be completely replaced including / not including the footings.		
Repair or replace wingwalls.		
Repair abutments including beam seats and backwalls. Designer to determine quantities and locations.		
Repair beams seats, Designer to determine quantities and locations.		
Replace existing backwalls.		
Replace existing piers including / not including footings.		
Patch existing piers, Designer to determine quantities and locations.		

Field Season - April - Oct.

Basic Survey - Centerline & Profile - Assuming  
o/Lay.

Foundation Investigation		
<b>RETAINING WALLS</b>		
Retaining wall justification study		
<b>NOISE WALLS</b>		
Noise wall justification study		
<b>SURVEY REQUIREMENTS</b>		
Aerial Control		
Alignment	By ODOT X	By ODOT X
Profile		
Reference points and/or State Plane Coordinates with Scale Factor for conversion (based on the Ohio Harn)	By ODOT	By ODOT
Bench Marks	By ODOT	By ODOT
Alignment and Profile of Driveways		
Complete Topo survey including: utilities, drainage, and ground shots for DTM Construction		
Foundation Boring Staking (layout or location)		
Property corners and monumentation		
Preliminary R/W staking for utility relocation and appraisals (as needed)		
Post construction inspection and replacement of obliterated or damaged monuments		
Final R/W staking and monumentation		
Place USGS monument		
<b>MAINTENANCE OF TRAFFIC</b>		
Designer to determine maintenance of traffic (part width, detour, etc.)		
Part Width	X	X
Part Width with crossover		
Designer to design temporary run-around (including structure)		
Full closure with detour		
"Weekend Overlay"		
<b>RIGHT OF WAY</b>		
Title Reports		
Acquisition		
R/W Title Sheet		
R/W Plan Sheets		
Property Map		
Centerline Plat		
R/W Summary		
Deed descriptions		
Approximate number of parcels		
<b>ENVIRONMENTAL</b>		
Prepare Flood Plain permit application		
Prepare 401/404 permit applications		

o/Lay.



TBD

North  
1/5'

19' Aerial  
took  
full takes

To determine  
what  
City prefers

If replace  
deck does it  
have to be  
wider, GPR

TBD.

Part 2.  
Highway Easement  
over RR  
41 ft.  
- n

Railroad Coordination - Historic Sites, careful. Hazardous mat.  
\* Submittals - 4 copies per RR.

Work Limits, possible now to determine Basic, p.F. study. provide w

**Scope of Services Acceptance**

Planning & Programs  
Administrator

Valerie [Signature]

Date: 11/22/05

Production Administrator

Robert W. [Signature]

Date: 11/22/05

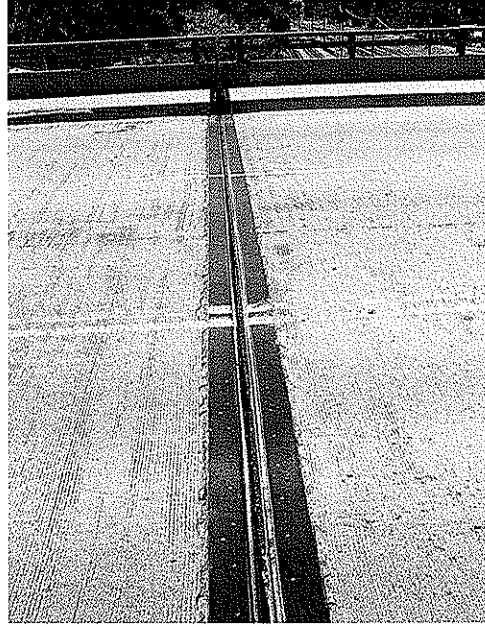
Project Development Process Step	Activity	Product	Comments/Revisions	Help
	coordinate with utility companies			
3	Prepare draft Categorical Exclusion (CE)	Draft Categorical Exclusion (CE) document	ODOT	
3	Complete Waterway Permit determinations and draft applications	Waterway Permit Determination and Draft Applications	ODOT/N/A	
3	Develop scope of services for final plan development (Concurrence Point 2)	Approved Scope of Services for final plan development (Concurrence Point 2)		
3	Update project cost estimates (construction, utility reimbursement, and right-of-way acquisition)	Updated project cost estimates and milestone dates	BY ODOT BASED ON MOST CURRENT ESTIMATE FROM DESIGNER <i>Cost for P.E. Report</i>	
4	Develop and submit Stage 1 Detailed Design	Approved Stage 1 Detailed Design		
4	Perform detailed environmental studies, Phase I and II Archaeology and Wetland Delineation, and coordinate with resource agencies	Environmental Studies	ODOT	
4	Develop Documentation for Consultation and Memorandum of Agreement	Documentation for Consultation and Memorandum of Agreement	ODOT	
4	Prepare final Waterway Permit applications	Final Waterway Permit Applications	N/A	
4	Develop Conceptual Mitigation Plans	Conceptual Mitigation Plan	ODOT	
4	Summarize environmental commitments and develop necessary plan notes	Environmental Commitments Summary	ODOT	
4	Prepare and submit Final Categorical Exclusion (CE)	Approved Final Categorical Exclusion (CE)		
4	Update project cost estimates	Updated project cost estimates	BY ODOT BASED ON MOST CURRENT ESTIMATE FROM DESIGNER	
4	Address Stakeholder comments by reaching Concurrence Point 2 (Scoping for Detailed Design)		ODOT.	
5	Develop and submit Stage 2 Detailed Design	Approved State 2 Detailed Design		

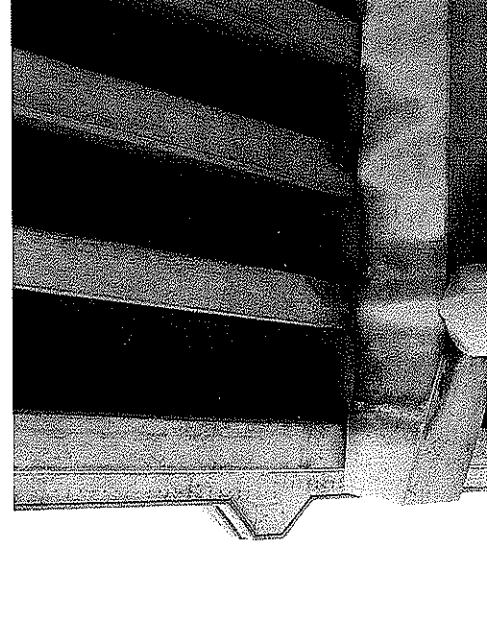
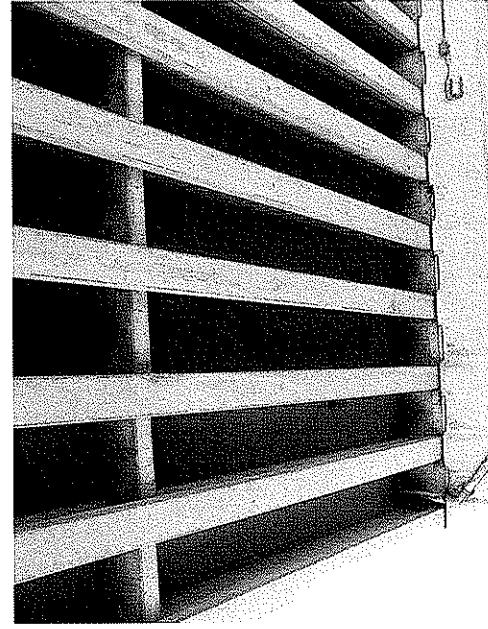
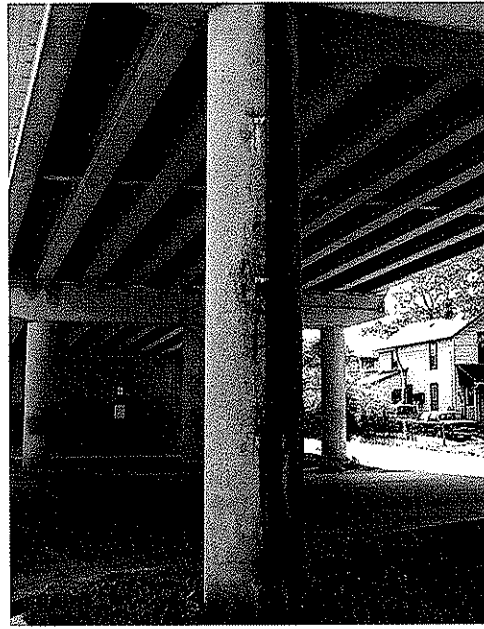
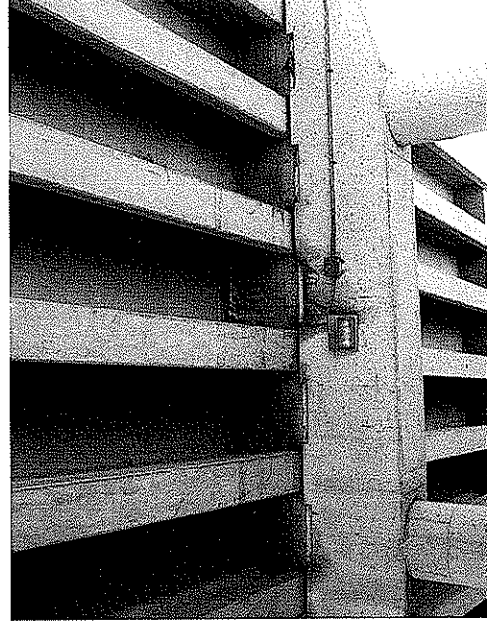
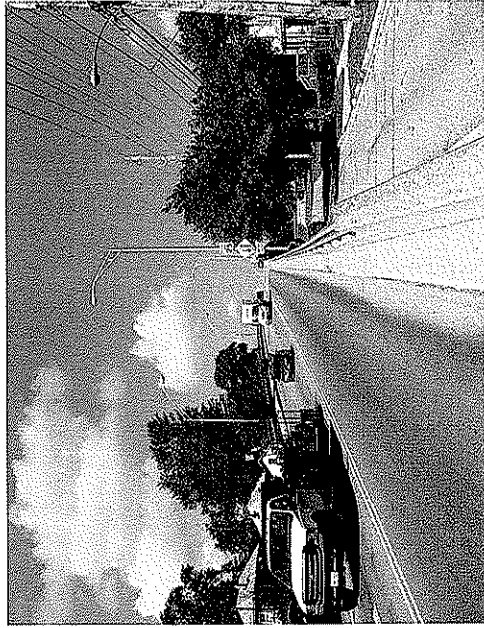
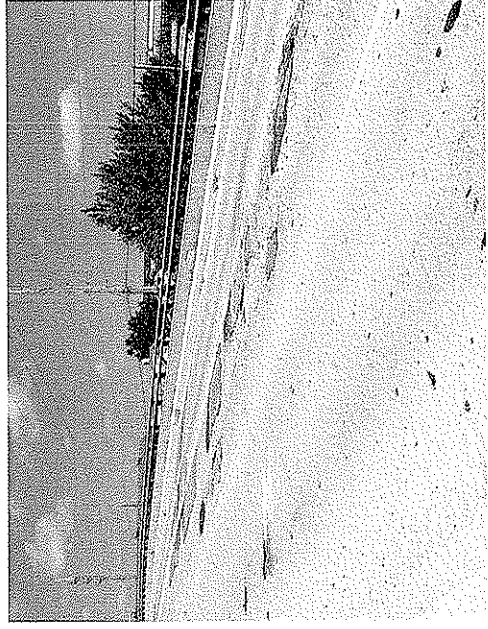
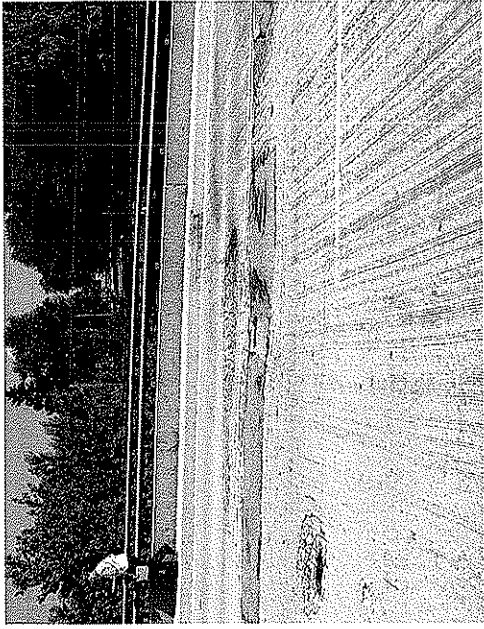
*plans*  
Set N to Marion ~~at~~ city engineer

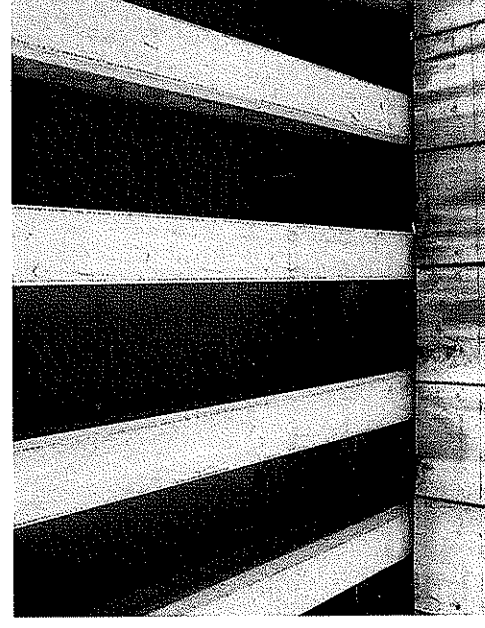
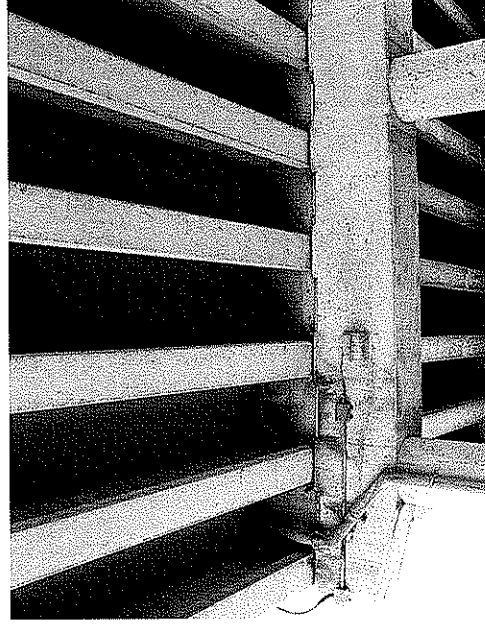
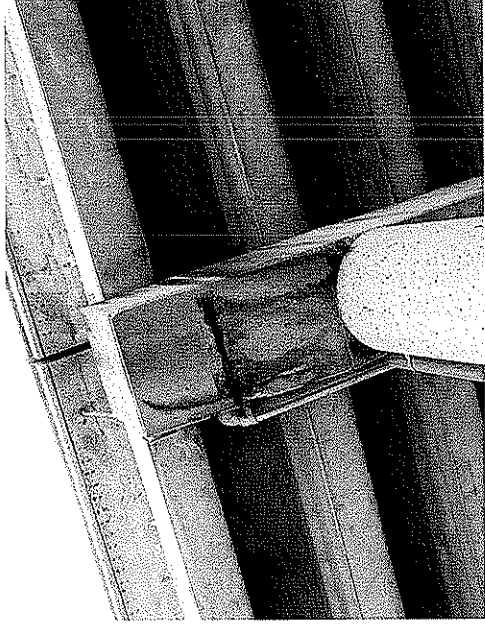
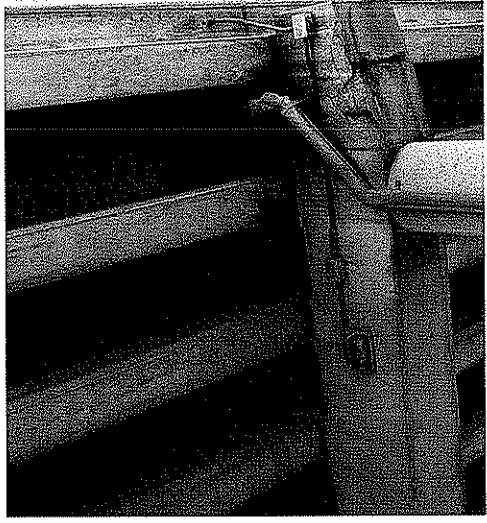


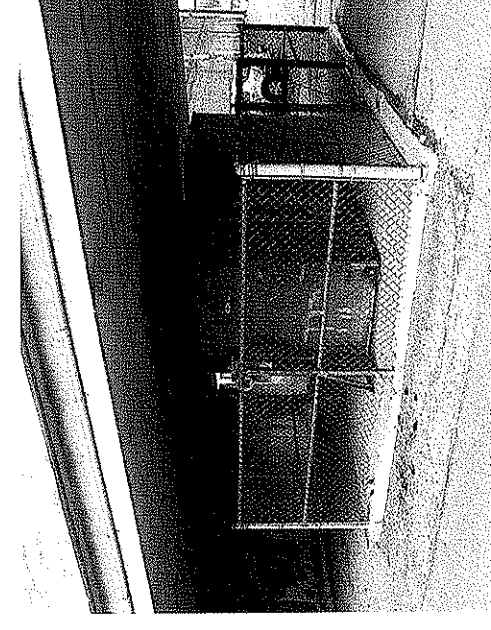
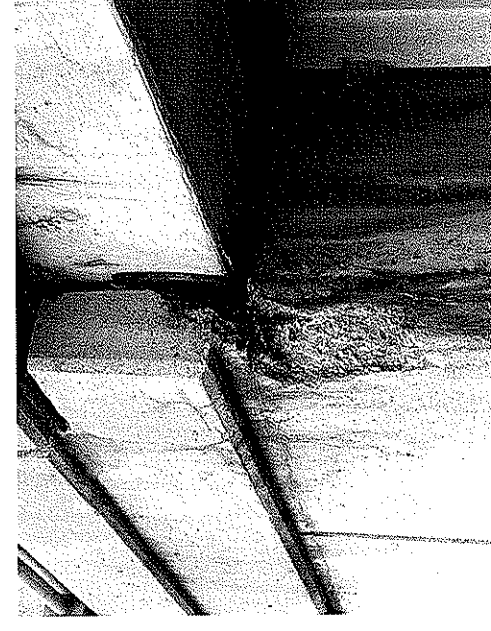
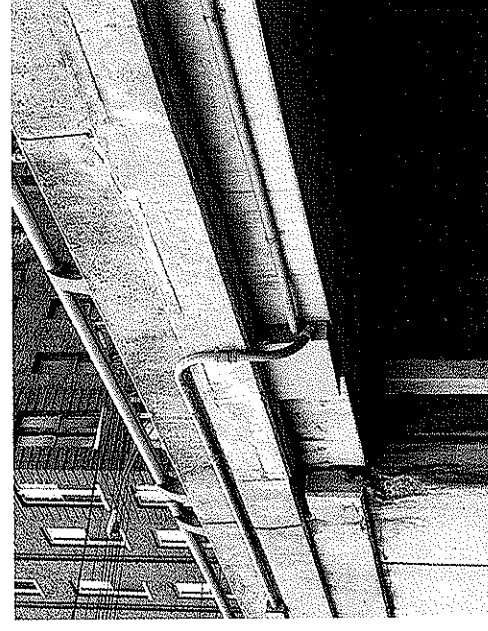
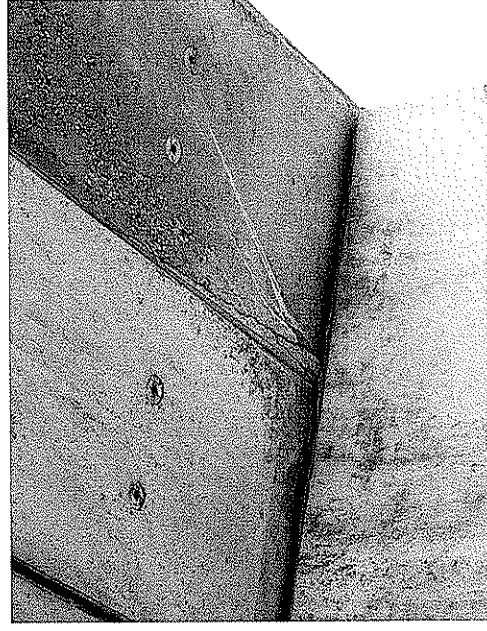
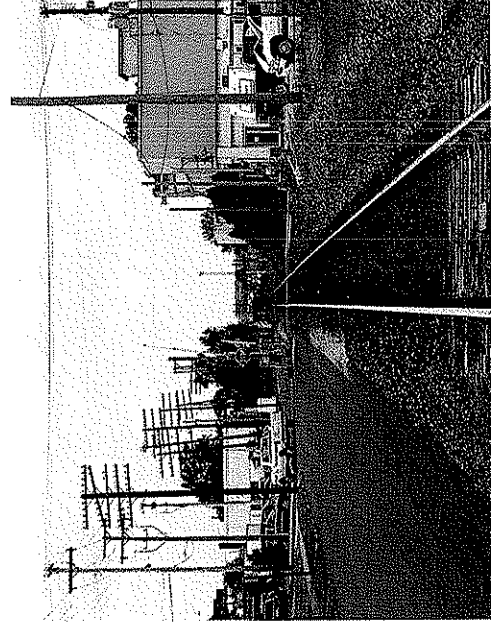
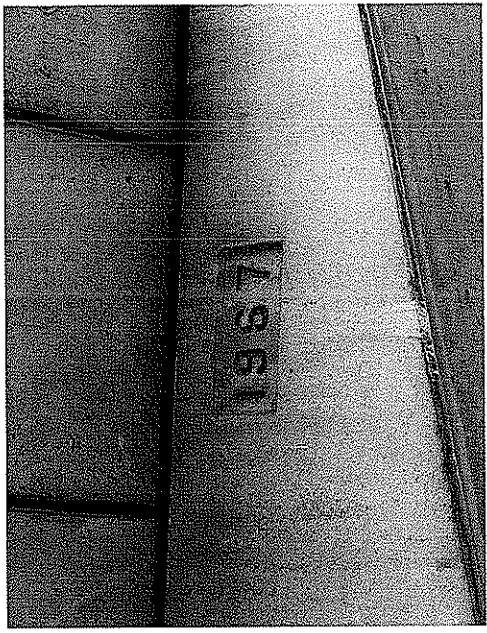


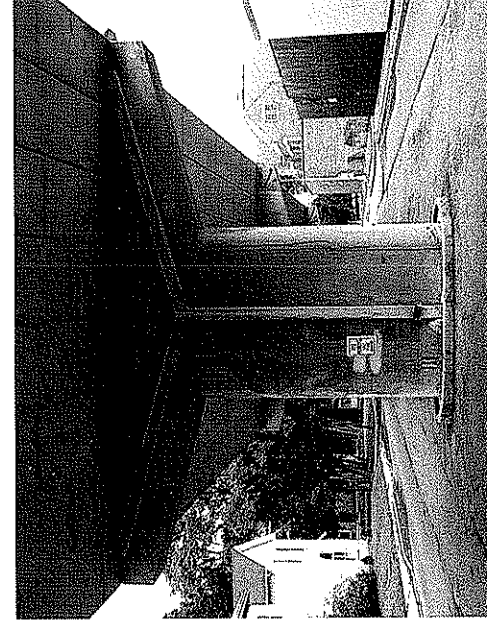
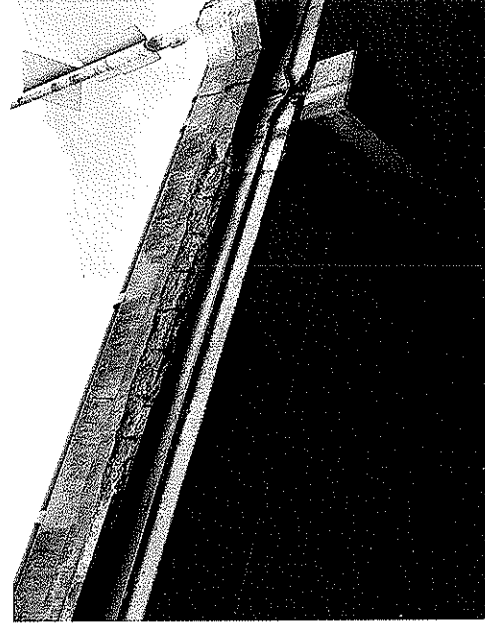
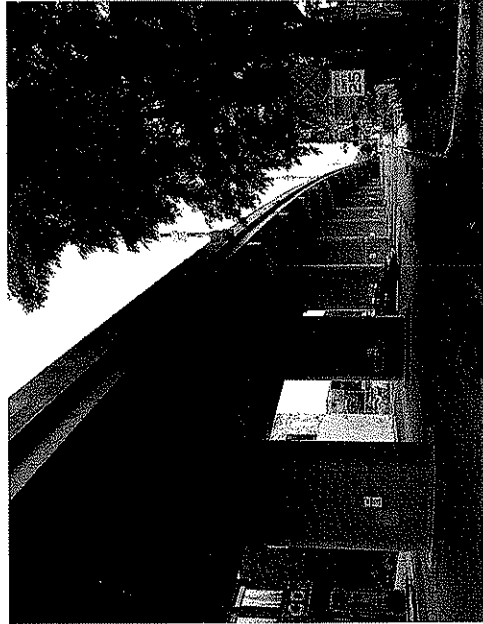
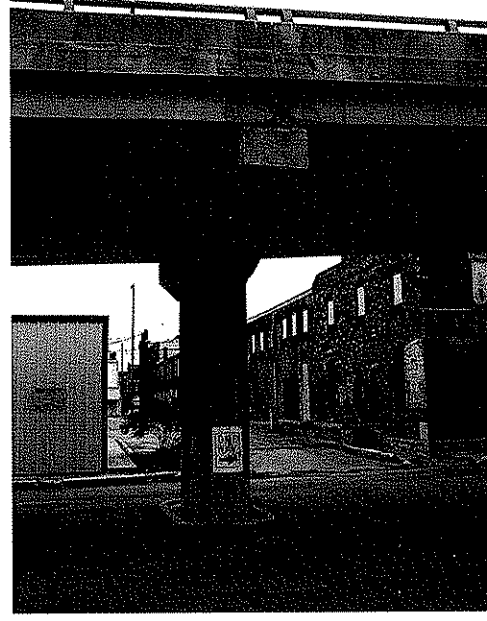
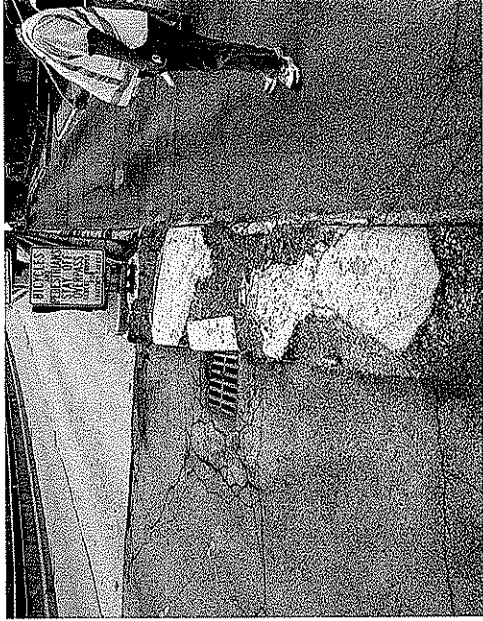
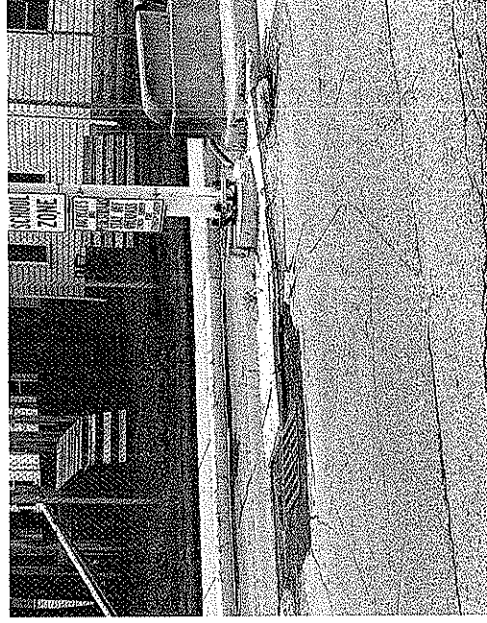
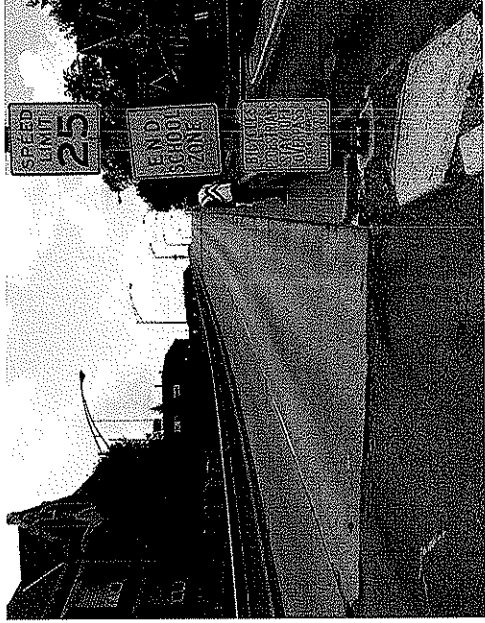
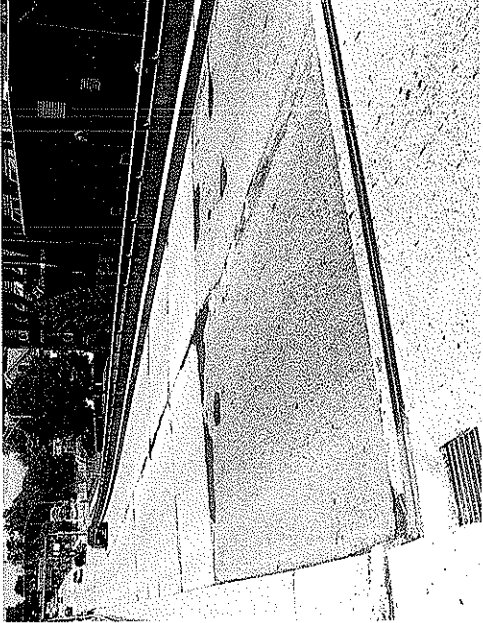
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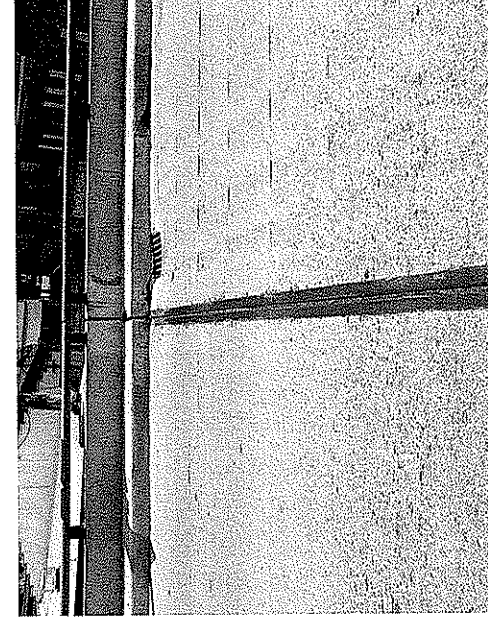
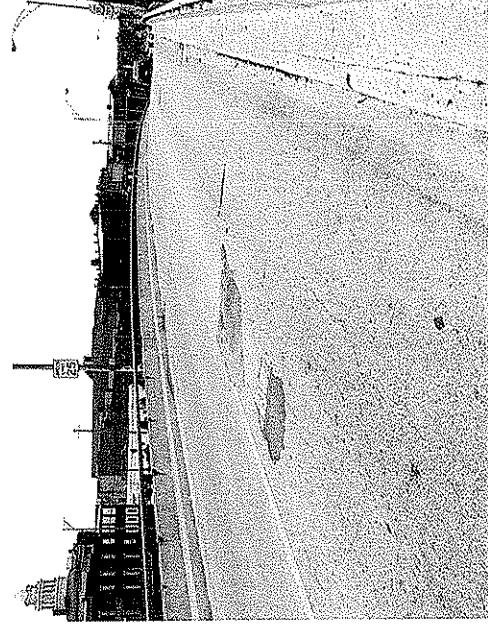
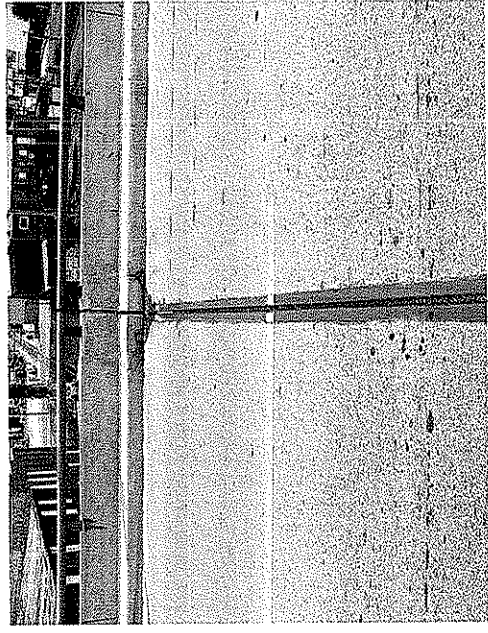
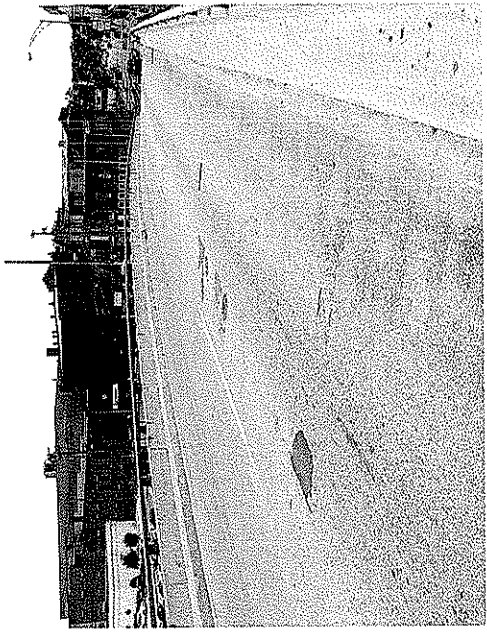


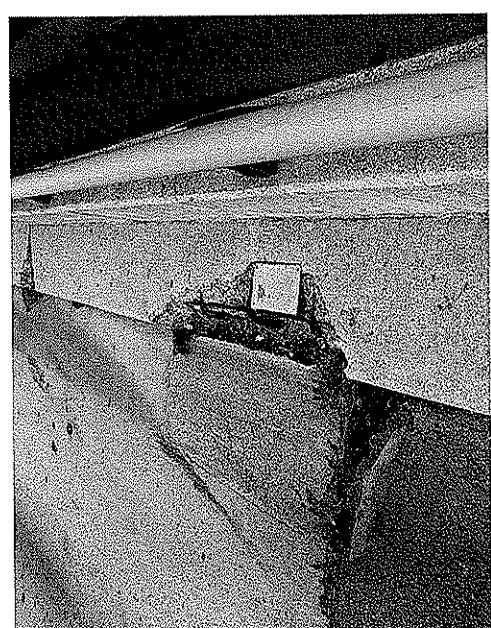
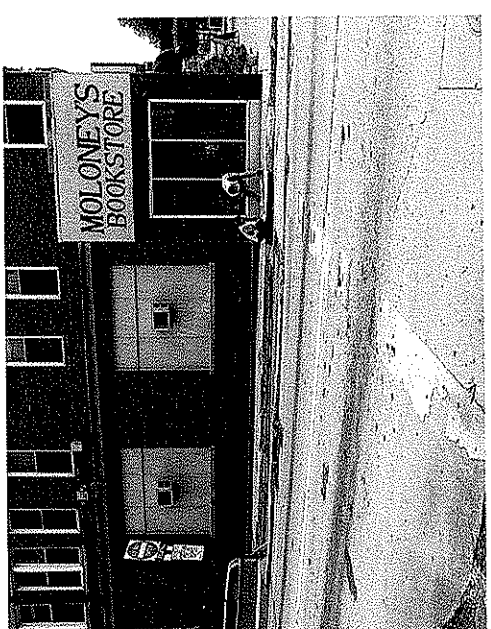
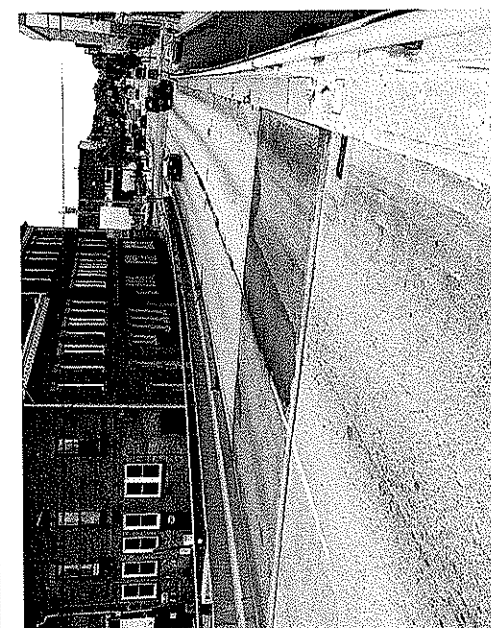
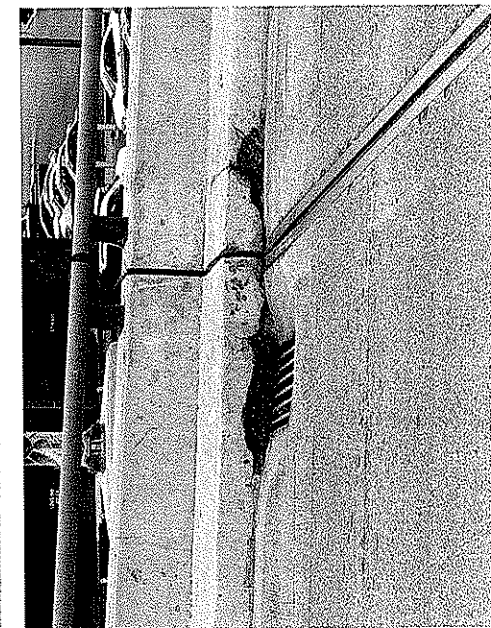














# ATTENDANCE LOG

DATE: April 23, 2006      TIME: 10:00am      LOCATION: 3C Highway  
 PROJECT: PAR-4 - 0.70      PID: 79838  
 SUBJECT: Scope of Services Meeting

	NAME	REPRESENTING	PHONE	E-MAIL
1.	Kitty Brewer	ODOT Ute's	740-833-8209	elbrowe@dot.state.oh.us
2.	SUSAN JAWORSKI	ODOT ENVIRONMENTAL	740-833-8065	Sjaworsk@dot.state.oh.us
3.	Mandy Kising	ODOT De Contract Mgr.	740-833-8098	mandy.kising@dot.state.oh.us
4.	DAN FICKER	PALMER ENGINEER	513-469-1600	dficker@PALMERNET.COM
5.	BRONSON FUNKE	PALMER	"	bfunke@palmer.net.com
6.	MARK BARTON	ODOT-CONSULTANT SERVICES	614-752-7459	MARK.BARTON@DOTS.STATE.OH.US
7.	Tom Makris	ODOT-D6. PM.	740-833-8084	tmakris@dot.state.oh.us
8.	Bruce Birch	ODOT - D6	740-833-8187	bbirch@dot.state.oh.us
9.	Bob Taylor	"	740-833-8352	bbobtaglor@dot.state.oh.us
10.				
11.				
12.				
13.				
14.				
15.				



# OHIO DEPARTMENT OF TRANSPORTATION

DISTRICT 6 • INTER-OFFICE COMMUNICATION

August 8, 2006

TO: Tom Makris, P.E.

FROM: Greg Channel

SUBJECT: certified traffic MAR-4D-0.70, MAR-95-14.36

Tom,  
The subject locations had a historical growth rate of less than 1% over the last 20 years. To be conservative we will use 1% growth for MAR-4D but a 2% growth rate for MAR-95 due to some known development projects.

Therefore, the design designations are such:

MAR-4D-0.70		MAR-95-14.36	
Current ADT (2008)	7118	Current ADT (2008)	7794
Design Year ADT (2028)	8685	Design Year ADT (2028)	11580
DHV (2028)	870	DHV (2028)	1160
Directional Distrib.	55%	Directional Distrib.	55%
T24	8%	T24	4%
Design Speed		Design Speed	40 mph
Legal Speed		Legal Speed	35 mph



**PALMER ENGINEERING COMPANY - OHIO**  
11300 Cornell Park Drive, Suite 105  
CINCINNATI, OHIO 45242

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**MEETING MINUTES**

Project: MAR-4D-0.70  
PID# 79938  
Meeting: Design Kickoff Meeting  
Meeting Date: July 18, 2006

**In attendance:**

Tom Makris ..... ODOT District 6 PM  
Bruce Birch ..... ODOT District 6 Production  
Robert Taylor ..... ODOT District 6 Production  
Janice Gartner ..... ODOT District 6 Environmental  
Steve Fox ..... ODOT District 6 Survey  
Tammy Boring ..... ODOT District 6 Right of Way  
Bronson Funke ..... Palmer Engineering PM  
Dan Ficker ..... Palmer Engineering Roadway

**Items Discussed:**

1. Plans should show MAR-4D-0.70. (Contract shows different)
2. Palmer will revise the project schedule to show a final tracings date of 9/7/07 (or thereabouts) and submit to Tom for approval and input into Ellis.
3. Bruce Birch is the District Railroad Coordinator. Send 3 additional submission copies for Bruce to send to Railroads. No other contact by Palmer Engineering with the RR's is necessary.
4. Discuss Right of Way (whether R/W is needed or not) in the PE Study.
5. Palmer Engineering will prepare the adjacent property owner lists and forward to Tom Makris. District 6 will send out the letters.
6. Survey and inspection operations should avoid trespass onto railroad right of way.
7. Palmer Engineering will coordinate traffic control needs for survey, inspection, and GPR with the City of Marion.

8. It is not necessary for Palmer to apply for an ODOT Right of Entry Permit.
9. Copy Tom Makris on all correspondence with the City of Marion.
10. Steve Fox indicated that ODOT survey responsibilities will be taken care of within the next two weeks. We will be using the NAVD 1988 datum.
11. Ruth Wiechman will provide utility contact information.
12. ODOT District 6 has no special preferences for plans.
13. Tom will contact Greg Channel to obtain certified traffic data.
14. Palmer Engineering will need to keep project limits (and therefore pavement resurfacing) to a minimum. Extend project limits just as necessary to pick up any bad pavement near bridges.
15. The Red Flag Summary will be prepared shortly by Mr. Taylor's staff.
16. Palmer Engineering will get the project limits and right of way needs submitted to Tom as early as possible to commence environmental coordination.

SUBMITTED JULY 19, 2006 – Bronson Funke

ID	Task Name	% Complete	Start	Finish	Duration
1	Step 1- Develop Purpose and Need	0%	7/18/05	8/28/05	30 days
2	Consultant to Meet with ODOT	0%	7/18/05	7/24/05	5 days
3	Collect and review existing ODOT data and analysis	0%	7/27/05	8/11/05	12 days
4	Define study/project area	0%	7/24/05	7/26/05	3 days
5	Contact and involve other stakeholders	0%	7/18/05	7/31/05	10 days
6	Perform Bridge Inspections	0%	8/14/05	8/25/05	10 days
7	Complete Red Flag Summary ** BY ODOT **	0%	7/18/05	8/28/05	30 days
8	Visit project site	0%	7/18/05	7/18/05	1 day
9	Identify Environmental Red Flags	0%	7/19/05	7/20/05	2 days
10	Identify Design Red Flags	0%	7/19/05	7/20/05	2 days
11	Complete Red Flag Summary and study area mapping with red flags	0%	8/28/05	8/28/05	1 day
12	Step 2- Determine Scope, Schedule and Budget	0%	8/28/05	9/1/05	5 days
13	Identify conceptual alternative solutions	0%	8/28/05	9/1/05	5 days
14	Identify evaluation criteria	0%	8/28/05	9/1/05	5 days
15	Step 3- Perform Environmental Analysis and Begin Preliminary Engineering	0%	7/24/05	12/1/05	95 days
16	Minor Project Preliminary Engineering Study	0%	7/24/05	12/1/05	95 days
17	Contact OUPS and unlisted utilities for field markings	0%	7/24/05	8/4/05	10 days
18	Property owner contact for field survey	0%	7/24/05	8/4/05	10 days
19	Complete field survey	0%	8/7/05	8/18/05	10 days
20	Plot existing R/W and property lines from tax map information	0%	8/21/05	8/25/05	5 days
21	Complete and submit drainage design criteria forms (LD-35)	0%	7/24/05	8/4/05	10 days
22	Determine vertical profile	0%	8/21/05	9/1/05	10 days
23	Develop Plan and Profile sheets	0%	9/4/05	9/15/05	10 days
24	Identify potential design exceptions	0%	9/4/05	9/6/05	3 days
25	Preliminary MOT on structure	0%	9/4/05	9/8/05	5 days
26	Check horizontal and vertical clearances	0%	9/11/05	9/15/05	5 days
27	Estimate construction limits for environmental to begin their field work	0%	9/11/05	9/15/05	5 days
28	Contact utility companies	0%	8/7/05	8/18/05	10 days
29	Contact railroad/railway for design requirements	0%	7/24/05	8/18/05	20 days
30	Identify subsurface drainage requirements	0%	7/24/05	8/4/05	10 days
31	Develop typical sections	0%	7/24/05	7/28/05	5 days
32	Identify preliminary pavement markings	0%	9/18/05	9/22/05	5 days
33	Conceptual storm sewer design	0%	9/4/05	9/15/05	10 days
34	Complete Structure Type Study	0%	9/18/05	10/27/05	30 days
35	Prepare conceptual MOT	0%	9/11/05	9/15/05	5 days
36	Prepare preliminary construction limits	0%	9/18/05	9/22/05	5 days
37	Identify potential utility relocations	0%	9/25/05	9/28/05	5 days
38	Prepare preliminary cost estimates	0%	9/25/05	9/28/05	5 days
39	Coordinate w/ District Utility Coordinator for anticipated costs	0%	10/2/05	10/6/05	5 days
40	Develop comparison matrix/summary of alternatives	0%	10/2/05	10/6/05	5 days
41	Finalize Preliminary Engineering Review Submission	0%	10/9/05	10/27/05	15 days
42	Preliminary Engineering Study Review Submission	0%	10/27/05	11/24/05	20 days
43	Preliminary Engineering Study - ODOT District and Central Office Review	0%	10/30/05	11/24/05	20 days
44	Milestone: Minor Project Preliminary Engineering Study - Submitted	0%	10/27/05	10/27/05	0 days
45	Milestone: Minor Project Preliminary Engineering Study - Approved	0%	11/24/05	11/24/05	0 days
46	Preliminary Engineering Study - Review and comment by railroad company	0%	10/30/05	11/24/05	20 days
47	Preliminary Engineering Study - Review and comment by utility company	0%	10/30/05	11/24/05	20 days
48	First Constructability Review	0%	10/30/05	11/24/05	20 days
49	Finalize Preliminary Engineering on Preferred Alternative	0%	11/27/05	12/1/05	5 days
50	Update cost estimates and project milestones in Ellis	0%	11/27/05	11/27/05	1 day
51	Hold Concurrence Point #2 - Scoping for Detailed Design	0%	10/27/05	11/23/05	20 days
52	Develop scope of services for final plan development	0%	10/27/05	11/9/05	10 days
53	Obtain Advanced Authorization for final plan development	0%	11/10/05	11/23/05	10 days
54	Step 4 - Environmental Clearance and Stage 1 Design	0%	11/27/05	2/23/07	65 days
55	Stage 1 Design	0%	11/27/05	2/23/07	65 days
56	Address PE review comments	0%	11/27/05	12/1/05	5 days
57	Plot property lines	0%	12/4/05	12/6/05	3 days
58	Complete guardrail design/layout	0%	12/4/05	12/5/05	2 days
59	Complete Structure Preliminary Design (TS&L)	0%	12/4/05	1/12/07	30 days
60	Complete storm sewer designs	0%	12/4/05	12/8/05	5 days
61	Reevaluate maintenance of traffic	0%	1/15/07	1/15/07	1 day
62	Identify removal items	0%	12/11/05	12/11/05	1 day
63	Finalize construction limits	0%	12/4/05	12/6/05	5 days
64	Plot additional utility information/utility suggested revisions	0%	12/4/05	12/8/05	5 days
65	Refine cost estimates	0%	12/4/05	12/5/05	2 days
66	Intermediate Approvals	0%	12/4/05	12/29/05	20 days
67	Submit deviations from pipe policy to Hydraulics for approval	0%	12/18/05	12/29/05	10 days
68	Complete County Engineer approval form (LD-33) and submit	0%	12/4/05	12/22/05	15 days
69	Finalize Stage 1 Design for Review Submission	0%	12/23/05	1/12/07	15 days
70	Stage 1 Detailed Design Review	0%	1/12/07	2/23/07	30 days
71	Milestone: Stage 1 Plans - Submitted	0%	1/12/07	1/12/07	0 days
72	Stage 1 Detailed Design - ODOT Review and Approval	0%	1/15/07	2/9/07	20 days
73	Milestone: Stage 1 Plans - Approved	0%	2/9/07	2/9/07	0 days
74	Stage 1 Detailed Design - Railroad Review and Approval	0%	1/15/07	2/9/07	20 days
75	Stage 1 Detailed Design - Utility Review and Comment	0%	1/29/07	2/23/07	20 days
76	Step 5 - Stage 2 Design	0%	2/19/07	10/29/06	436 days
77	Transitional activities	0%	2/19/07	3/2/07	10 days
78	Address Stage 1 Detailed Design Review comments	0%	2/19/07	3/2/07	10 days
79	Stage 2 Design	0%	3/5/07	4/5/07	24 days
80	Prepare underdrain details	0%	3/5/07	3/9/07	5 days
81	Layout pavement markings	0%	3/5/07	3/16/07	10 days
82	Layout signing	0%	3/5/07	3/16/07	10 days
83	Complete waterline design	0%	3/5/07	3/9/07	5 days
84	Complete sanitary design	0%	3/5/07	3/9/07	5 days
85	Complete structure detailed design	0%	3/5/07	3/23/07	15 days
86	Include ROW lines on plan sheets	0%	3/26/07	3/27/07	2 days
87	Prepare detailed MOT phasing plans	0%	3/5/07	3/23/07	15 days
88	Prepare detour plans	0%	3/5/07	3/9/07	5 days
89	Update project cost estimates	0%	3/28/07	3/28/07	2 days
90	Finalize Stage 2 Detailed Design	0%	3/30/07	4/6/07	5 days
91	Intermediate Approvals	0%	3/12/07	4/26/07	30 days
92	Review and approval of local alternate detour route by County	0%	3/12/07	4/26/07	30 days
93	Submit Stage 2 Detailed Design Plans	0%	4/6/07	6/7/07	45 days
94	Milestone: Stage 2 Plans - Submitted	0%	4/26/07	4/26/07	0 days
95	Review and approval by ODOT	0%	4/23/07	5/18/07	20 days

Minor Project #4  
 April 2006  
 PID#79938 Revised - Part 1.mpp

Task Progress: Critical Task Progress: Baseline Milestone: Milestone: Rolled Up Task: Rolled Up Milestone: Rolled Up Baseline Milestone: Split: External Tasks: Group By Summary: Deadline:

All design activities, MWP, Phase 1 & 2 ESA, CE level 2.  
 Impacts to railroads. No noise walls.

10:16 AM Wed 7/19/06

ID	Task Name	% Complete	Start	Finish	Duration	2007			
						Qtr 3	Qtr 4	Qtr 1	Qtr 2
96	Milestones: Stage 2 Plans - Approved	0%	5/16/07	5/16/07	0 days				
97	Review and comment by railroad companies	0%	4/6/07	6/7/07	45 days				
98	Submit copies of Stage 2 plans to utilities for information only	0%	4/6/07	4/6/07	1 day				
99	Second constructability Review	0%	4/6/07	5/3/07	20 days				
100	Update cost estimates in Ellis	0%	5/21/07	5/21/07	1 day				
101	Step 7 - Develop Stage 3 Design	0%	5/21/07	8/9/07	59 days				
102	Stage 3 Design	0%	5/21/07	6/28/07	29 days				
103	Address Stage 2 review comments	0%	5/21/07	6/1/07	10 days				
104	Complete project site plan for SWPPP	0%	5/21/07	5/22/07	2 days				
105	Complete signing plans	0%	5/21/07	5/25/07	5 days				
106	Complete estimated quantities	0%	5/21/07	5/29/07	7 days				
107	Pavement Calculations	0%	5/21/07	5/24/07	4 days				
108	Drainage quantities	0%	5/21/07	5/24/07	4 days				
109	Roadway quantities	0%	5/21/07	5/24/07	4 days				
110	Earthwork and seeding calculations	0%	5/21/07	5/25/07	5 days				
111	MOT quantities	0%	5/21/07	5/24/07	4 days				
112	Pavement Marking quantities	0%	5/21/07	5/22/07	2 days				
113	Signing quantities	0%	5/28/07	5/29/07	2 days				
114	Brid quantities and rebar tables	0%	5/21/07	5/25/07	5 days				
115	Complete notes (general, MOT, traffic control)	0%	5/21/07	5/22/07	2 days				
116	Prepare General Summary	0%	5/30/07	5/31/07	2 days				
117	Revise construction cost estimate	0%	6/1/07	6/1/07	1 day				
118	Update construction cost estimate in Ellis	0%	6/4/07	6/4/07	1 day				
119	Complete general preparation of Final Plans	0%	6/1/07	6/28/07	20 days				
120	Submit Stage 3 Design Plans	0%	6/28/07	8/6/07	30 days				
121	Review and approval by ODOT	0%	6/28/07	8/8/07	30 days				
122	Milestone: Stage 3 Plans - Submitted	0%	6/28/07	6/28/07	0 days				
123	Milestone: Stage 3 Plans - Approved	0%	8/3/07	8/9/07	0 days				
124	Review and approval by railroad companies	0%	6/29/07	8/9/07	30 days				
125	Bidability Review	0%	6/29/07	6/29/07	1 day				
126	Environmental	0%	6/29/07	7/5/07	5 days				
127	Prepare Environmental Consultation form	0%	6/29/07	7/5/07	5 days				
128	Step 8 - Final Plan Package	0%	8/10/07	11/26/07	77 days				
129	Final Tracings	0%	8/10/07	8/31/07	16 days				
130	Address Stage 3 review comments	0%	8/10/07	8/28/07	13 days				
131	Plot Mylar Tracings	0%	8/28/07	8/31/07	3 days				
132	Update construction cost estimate in Ellis	0%	9/3/07	9/3/07	1 day				
133	Preparation of Final Plan Package (District)	0%	9/3/07	10/12/07	30 days				
134	Best case plans ready to file	0%	10/15/07	10/15/07	1 day				
135	Time Contingency	0%	10/16/07	11/26/07	30 days				
136	Milestone: Tracings - Submitted	0%	11/26/07	11/26/07	0 days				
137	Milestone: Tracings - Approved	0%	11/26/07	11/26/07	0 days				
138	Step 9 - Award Contract	0%	11/26/07	4/7/08	95 days				
139	Plans, Specifications and Estimate Package Processing	0%	11/26/07	1/7/08	30 days				
140	Milestone: Plan Package Received in C.O.	0%	11/26/07	11/26/07	0 days				
141	Prepare Engineering Cost Estimate	0%	11/27/07	12/31/07	25 days				
142	Plans, Specifications and Estimates to Project Accounting	0%	1/1/08	1/7/08	5 days				
143	Plans, Specifications and Estimates to Contracts	0%	1/1/08	1/1/08	1 day				
144	Federal Authorization	0%	1/8/08	1/21/08	10 days				
145	Complete Final Legislation	0%	11/27/07	1/14/08	35 days				
146	Complete Final Legislation Package	0%	11/27/07	12/3/07	5 days				
147	Obtain Local Public Agency Approval	0%	12/4/07	1/14/08	30 days				
148	Milestone: Local Let PS & E Package to District	0%	1/14/08	1/14/08	0 days				
149	Advertise	0%	1/15/08	3/24/08	50 days				
150	Milestone: Sale Date	0%	3/24/08	3/24/08	0 days				
151	Milestone: Award	0%	4/7/08	4/7/08	0 days				
152	Step 10 - Construction	0%	4/7/08	10/20/08	140 days				
153	Milestone: Estimated Begin Construction	0%	4/7/08	4/7/08	0 days				
154	Construct Project (Work not involving utility relocations)	0%	4/8/08	9/22/08	120 days				
155	Utility Relocations (During Construction)	0%	4/8/08	5/19/08	30 days				
156	Complete Project Construction (All Remaining Work)	0%	5/20/08	10/20/08	110 days				
157	Milestone: Estimated End Construction	0%	10/20/08	10/20/08	0 days				

Meeting Notes

# Kickoff Meeting

Project/PID: Mar-4-0.70, p. 1993 Start Time: 1:00

Date: July 18, 2006 Stop Time: 2:00

Location: D-6, 3C

Persons Attending:

Name:	Representing:
1. Tom Makris	D-6 Proj Manager
2. Tammy Borine	D6 Real Estate
3. Janice Coartner	D6 Environmental
4. Bruce Birch	D6 Production
5. DAN FICKER	PALMER ENGINEERING
6. BRONSON FUNKE	"
7. Steve Fox	D-6 Survey PRODUCTION
8. Robert Taylor	D6-Planning
9.	
10.	

NOTES:

- Authorized 6-27-06 - Palmer Engineering.
  - Sept 1, 07 - Need Final Tracings -
  - Try to Reduce pe study to 3 months
  - Field work, try to Complete by end of ~~aug~~ August.
  - Bronson said he will resubmit the schedule In order for T. Makris to put into Ellis.
  - Railroad Coordination needed
  - ROW ~~can~~ can be an issue w/ Mar-95 bridge.
  - SI date needs adjustment
  - GPR Survey, <sup>Bridge Inspection</sup> - ~~Coordinate~~ w/ using Traffic Control.
  - Property owner notification - ODOT will send out mainly city streets.
  - Bronson will send letters to ~~to~~ T. Makris & owners. to send
  - will not send a letter to Rail Bonds. - due to deck/lay to J.
  - will need a Crash wall due to piers 4 25 ft to G Gardner.
- c: Original to Project File @ prospect bridge.

action items:

- Send Palmer Eng an updated list of Utilities in the project area.
  - access permit not necessary
- Over →



## MEETING AGENDA

MAR-4-0.70  
PID# 79938

### KICKOFF MEETING

Tuesday, July 18, 2006

---

1. Updated schedule
  - a. No dates in Ellis
  - b. Confirm acceptance of proposed Stage 1 plan submittal date
2. Bridge Inspections
  - a. GPR coordination — *Ground Penetrating Radar.*
  - b. Property owner notification?
  - c. Permit needs
  - d. Coordination with City of Marion, local police department
3. Survey Information
  - a. ODOT Survey info
  - b. Coordination with City, PD, ODOT, Permits, etc. — should be able to run at same time as bridge inspection/GPR
  - c. Estimated 2 weeks survey time
4. Utility Contacts
  - a. Get updated contacts list from ODOT, City
5. Railroad Contacts
  - a. Coordinate with District Railroad Coordinator
6. Miscellaneous
  - a. District 6 plan preferences
  - b. City/County GIS data

• *Work Limits.*

• *Red flag summary? Should be ready.*

• *Mar-4D-0070 — LMC overlay in 1991*

• *Greg C. Design Speed, Legal Speed,*

## MEETING AGENDA

MAR-4-0.70  
PID# 79938

### KICKOFF MEETING

Tuesday, July 18, 2006

---

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  - a. No dates in Ellis
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• Work Limits.

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• Mar-4D-0070 — LMC overlay in 1991

• Greg C. Design Speed, legal Speed,

MEETING AGENDA

MAR-4-0.70  
PID# 79938

KICKOFF MEETING

Tuesday, July 18, 2006

---

1. Updated schedule

- ~~a.~~ No dates in Ellis
- ~~b.~~ Confirm acceptance of proposed Stage 1 plan submittal date

2. Bridge Inspections

- ~~a.~~ GPR coordination — *Ground Penetrating Radar.*
- ~~b.~~ Property owner notification?
- ~~c.~~ Permit needs
- ~~d.~~ Coordination with City of Marion, local police department

3. Survey Information

- ~~a.~~ ODOT Survey info
- ~~b.~~ Coordination with City, PD, ODOT, Permits, etc. — should be able to run at same time as bridge inspection/GPR
- ~~c.~~ Estimated 2 weeks survey time

4. Utility Contacts

- a. Get updated contacts list from ODOT, City

5. Railroad Contacts

- ~~a.~~ Coordinate with District Railroad Coordinator

6. Miscellaneous

- a. District 6 plan preferences
- b. City/County GIS data

→ • *Work Limits.*

• *Red flag summary? Should be ready.*

• *6. Mar-4D-0070 — LMC overlay in 1991*

→ *Greg C. Design Speed, legal Speed,*

MARION, MARION COUNTY, OHIO  
MAR-95-14.36; PID 79938  
CSX TRANSPORTATION, INC.  
MILEPOST CD-45.20  
CSXT OP# OH0591

**SCHEDULE I****CONTRACTOR'S ACCEPTANCE**

To and for the benefit of CSX Transportation, Inc. ("CSXT") and to induce CSXT to permit Contractor on or about CSXT's property for the purposes of performing work in accordance with the Agreement dated September 1, 2007, between the Ohio Department of Transportation and CSXT, Contractor hereby agrees to abide by and perform all applicable terms of the Agreement, including the Special Clauses In The Proposal.

Contractor: BRIDGE OVERLAY SYSTEMS INC.

By: [Signature]  
Name: LARRY C. BERASI  
Title: VICE-PRESIDENT  
Date: 8/11/08

WCR1130459.7

10/03/06 Version 1

I-1

MARION, MARION COUNTY, OHIO  
MAR-95-14.36; PID 79938  
CSX TRANSPORTATION, INC.  
MILEPOST CD-45.20  
CSXT OP# OH0591

**SCHEDULE I****CONTRACTOR'S ACCEPTANCE**

To and for the benefit of CSX Transportation, Inc. ("CSXT") and to induce CSXT to permit Contractor on or about CSXT's property for the purposes of performing work in accordance with the Agreement dated September 4, 2007, between the Ohio Department of Transportation and CSXT, Contractor hereby agrees to abide by and perform all applicable terms of the Agreement, including the Special Clauses In The Proposal.

Contractor: BRIDGE OVERLAY SYSTEMS INC.

By: [Signature]  
Name: LARRY C. BERASI  
Title: VICE-PRESIDENT  
Date: 8/11/08

HCORV30459.7



# OHIO DEPARTMENT OF TRANSPORTATION

800.372.7714

DISTRICT 6 • OFFICE OF PRODUCTION

FAX: 740.833.8094

400 EAST WILLIAM STREET • DELAWARE, OHIO • 43015

August 5, 2008

Mr. Ben Biesterveld  
CSX Transportation, Inc.  
Principal Engineer Public Projects  
500 Water Street, J-301  
Jacksonville, FL 32225

Re: Marion, Marion County  
MAR-4D-0070/MAR-95-1436  
Bridge Rehabilitation  
PID No. 79938  
OP No: OH0592

Dear Ben:

The above referenced project will be generally supervised by:  
Mr. Brad Jones, P.E., District Construction Engineer, Ohio Department of Transportation, District No. 6,  
400 East Williams Street, Delaware, Ohio 43015, Telephone No. (740) 833-8346.

The State's contractor will be:  
Bridge Overlay Systems, Inc., 325 Russo Drive, Canfield, Ohio, Telephone : 330-533-7905

In order to expedite the construction of this project, please acquire the material necessary and proceed with your work to be performed by your Company's forces. After the construction contract is awarded, please coordinate your activities with those of our contractor so as not to delay the construction operations.

To ensure full reimbursement to your company for work performed due to this project and to eliminate complications at the time of the project audit, please advise our project engineer when your forces are working at this location so that this information may be logged in the project diary. Also, please furnish this office advance notice of the date you anticipate initiating your force account work. After your force account work is completed, give us the date your forces last performed work on account of this project. Your cooperation in this matter is appreciated.


If you have any questions or need additional information, please contact me at 740-833-8187 or by email at [Bruce.Birch@dot.state.oh.us](mailto:Bruce.Birch@dot.state.oh.us)

Respectfully,

Bruce S. Birch, P.E.  
Railroad Coordinator

ID	Task Name	% Complete	Start	Finish	Duration	May	June	July	August	September	October	November	December	January	February	March	April
						May	June	July	August	September	October	November	December	January	February	March	April
1	<b>Step 1- Develop Purpose and Need</b>	0%	7/18/06	8/28/06	30 days												
2	Consultant to Meet with ODOT	0%	7/18/06	7/24/06	5 days												
3	Collect and review existing ODOT data and analysis	0%	7/27/06	8/11/06	12 days												
4	Define study/project area	0%	7/24/06	7/26/06	3 days												
5	Contact and involve other stakeholders	0%	7/18/06	7/31/06	10 days												
6	Perform Bridge Inspections	0%	8/14/06	8/25/06	10 days												
7	<b>Complete Red Flag Summary ** BY ODOT **</b>	0%	7/18/06	8/28/06	30 days												
8	Visit project site	0%	7/18/06	7/18/06	1 day												
9	Identify Environmental Red Flags	0%	7/19/06	7/20/06	2 days												
10	Identify Design Red Flags	0%	7/19/06	7/20/06	2 days												
11	Complete Red Flag Summary and study area mapping with red flags	0%	8/28/06	8/28/06	1 day												
12	<b>Step 2- Determine Scope, Schedule and Budget</b>	0%	8/28/06	9/1/06	5 days												
13	Identify conceptual alternative solutions	0%	8/28/06	9/1/06	5 days												
14	Identify evaluation criteria	0%	8/28/06	9/1/06	5 days												
15	<b>Step 3- Perform Environmental Analysis and Begin Preliminary Engineering</b>	0%	7/24/06	1/19/07	130 days												
16	<b>Minor Project Preliminary Engineering Study</b>	0%	7/24/06	12/22/06	110 days												
17	Contact OUPS and unlisted utilities for field markings	0%	7/24/06	8/4/06	10 days												
18	Property owner contact for field survey	0%	7/24/06	8/4/06	10 days												
19	Complete field survey	0%	8/7/06	8/18/06	10 days												
20	Plot existing R/W and property lines from tax map information	0%	8/21/06	8/25/06	5 days												
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42	<b>Preliminary Engineering Study Review Submission</b>	0%	10/27/06	12/8/06	30 days												
43	Preliminary Engineering Study - ODOT District and Central Office R	0%	10/30/06	11/24/06	20 days												
44	Milestone: Minor Project Preliminary Engineering Study - Submitted	0%	10/27/06	10/27/06	0 days												
45	Milestone: Minor Project Preliminary Engineering Study - Approved	0%	11/24/06	11/24/06	0 days												
46	Preliminary Engineering Study - Review and comment by railroad c	0%	10/30/06	12/8/06	30 days												
47	Preliminary Engineering Study - Review and comment by utility con	0%	10/30/06	12/8/06	30 days												
48	First Constructability Review	0%	10/30/06	11/24/06	20 days												
49	Finalize Preliminary Engineering on Preferred Alternative	0%	12/11/06	12/22/06	10 days												
50	Update cost estimates and project milestones in Ellis	0%	11/27/06	11/27/06	1 day												
51	<b>Hold Concurrence Point #2 - Scoping for Detailed Design</b>	0%	12/11/06	1/19/07	30 days												
52	Develop scope of services for final plan development	0%	12/11/06	12/29/06	15 days												
53	Obtain Advanced Authorization for final plan development	0%	1/1/07	1/19/07	15 days												
54	<b>Step 4 - Environmental Clearance and Stage 1 Design</b>	0%	12/4/06	3/23/07	80 days												
55	<b>Stage 1 Design</b>	0%	12/4/06	3/23/07	80 days												
56	Address PE review comments	0%	1/22/07	2/2/07	10 days												
57	Plot property lines	0%	12/4/06	12/6/06	3 days												
58	Complete guardrail design/layout	0%	2/5/07	2/6/07	2 days												
59	Complete Structure Preliminary Design (TS&L)	0%	2/5/07	3/2/07	20 days												
60	Complete storm sewer designs	0%	2/5/07	2/9/07	5 days												
61	Reevaluate maintenance of traffic	0%	3/5/07	3/5/07	1 day												
62	Identify removal items	0%	2/12/07	2/12/07	1 day												
63	Finalize construction limits	0%	12/4/06	12/8/06	5 days												
64	Plot additional utility information/utility suggested revisions	0%	2/5/07	2/9/07	5 days												
65	Refine cost estimates	0%	12/4/06	12/5/06	2 days												
66	<b>Intermediate Approvals</b>	0%	12/4/06	12/29/06	20 days												
67	Submit deviations from pipe policy to Hydraulics for approval	0%	12/18/06	12/29/06	10 days												
68	Complete County Engineer approval form (LD-33) and submit	0%	12/4/06	12/22/06	15 days												
69	Finalize Stage 1 Design for Review Submission	0%	2/5/07	2/9/07	5 days												
70	<b>Stage 1 Detailed Design Review</b>	0%	2/9/07	3/23/07	30 days												
71	Milestone: Stage 1 Plans - Submitted	0%	2/9/07	2/9/07	0 days												
72	Stage 1 Detailed Design - ODOT Review and Approval	0%	2/12/07	3/23/07	30 days												
73	Milestone: Stage 1 Plans - Approved	0%	3/23/07	3/23/07	0 days												
74	Stage 1 Detailed Design - Railroad Review and Approval	0%	2/12/07	3/9/07	20 days												
75	Stage 1 Detailed Design - Utility Review and Comment	0%	2/12/07	3/16/07	25 days												

**Fay**  
Taylor/Production/D06/ODOT  
05/08/2008 04:28 PM

To Becky Greer/Contracts/CEN/ODOT@ODOT, Brian  
Moore/Contracts/CEN/ODOT@ODOT, Norketta  
Carter/Contracts/CEN/ODOT@ODOT  
cc Dave Poling/Production/D06/ODOT@ODOT  
bcc  
Subject Re: Alternates -- 5/7/08 Letting 

Becky,  
Please award both of these projects based upon AA2 for Polycarb epoxy pavement marking. There will  
be no cost difference for these projects.

Thanks,  
Fay

Becky Greer/Contracts/CEN/ODOT

**Becky**  
Greer/Contracts/CEN/ODOT  
05/08/2008 10:37 AM

To Fay Taylor/Production/D06/ODOT@ODOT, Tom  
Fox/Planning/D06/ODOT@ODOT  
cc Brian Moore/Contracts/CEN/ODOT@ODOT, Norketta  
Carter/Contracts/CEN/ODOT@ODOT  
Subject Alternates -- 5/7/08 Letting

Hi Fay,

Project Nos. 080299 MAD-36-2.24 PID No. 16706, 080301 MAR-4D-0.70, PID No. 79938, 5/7/08 letting  
5/14/08 award meeting has alternate bid items.  
file location and file name: O:\OTHER\CONTRACT\MISC\alternate-bids.xls

Let me know how you want to proceed. Please include Brian Moore and Norketta Carter in your e- mail  
response.

Thanks,

Becky

Rebecca C. Greer, Project Preparation



MAR - 4D - 0.70 PID 79938

LetDate	5/7/2008
Project#	080301

Sum of Bid\$		Bidder	
SectionDesc	AltCode	RN	997,979.79 - BRIDGE OVERLAY SYSTEMS INC 1,158,271.18 - COMPLETE GENERAL CONSTRUCTION COMPANY 1,166,524.40 - VELOTTA COMPANY
TRAFFIC CONTROL	AA1	0031 (AA1)	\$1,368.00
		0032 (AA1)	\$940.00
		0027 (AA1)	\$1,862.00
		0028 (AA1)	\$1,872.00
		0029 (AA1)	\$194.25
		0030 (AA1)	\$897.00
		0033 (AA1)	\$1,050.00
		AA1 Total	\$8,183.25
		AA2	\$1,368.00
		0038 (AA2)	\$940.00
		0039 (AA2)	\$1,050.00
		0040 (AA2)	\$1,862.00
		0034 (AA2)	\$1,872.00
		0035 (AA2)	\$194.25
		0036 (AA2)	\$897.00
		0037 (AA2)	\$897.00
		AA2 Total	\$8,183.25
TRAFFIC CONTROL Total			\$16,366.50

Becky  
Greer/Contracts/CEN/ODOT  
05/08/2008 10:37 AM

To Fay Taylor/Production/D06/ODOT@ODOT, Tom  
Fox/Planning/D06/ODOT@ODOT  
cc Brian Moore/Contracts/CEN/ODOT@ODOT, Norketta  
Carter/Contracts/CEN/ODOT@ODOT  
bcc  
Subject Alternates -- 5/7/08 Letting

Hi Fay,

Project Nos. 080299, MAD-36-2.24, PID No. 16706, 080301, MAR-4D-0.70, PID No. 79938, 5/7/08 letting  
5/14/08 award meeting has alternate bid items.

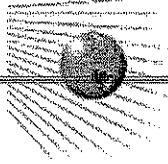
file location and file name: O:\OTHER\CONTRACT\MISC\alternate-bids.xls

Let me know how you want to proceed. Please include Brian Moore and Norketta Carter in your e-mail  
response.

Thanks,

Becky

Rebecca C. Greer, Project Preparation  
Office of Contracts  
1980 W. Broad St.  
Columbus, OH 43223  
(614) 466-3581  
Fax: (614) 728-2078  
E-Mail Address: R.Greer@dot.state.oh.us



Tom  
Makris/Production/D06/ODOT

05/02/2008 10:34 AM

To Dennis Sheets/Production/D06/ODOT@ODOT

cc

bcc

Subject Fw: Prebid 080301 MAR-4D PID  
79938

Dennis,

Below is Bronson's response to the prebid question, once he was able to arrive to his office and further discuss the matter with his colleague.

His response is based on a "assumption" of the integrity of the existing deck concrete, not fact.

My believe is that the addendum comment should remain in order to protect ourselves from any potential change orders.

Thank you,

Thomas G. Makris, P.E.  
Project Manager  
ODOT District 6  
(740) 833.8084  
(740) 833-8094 Fax  
tom.makris@dot.state.oh.us

— Forwarded by Tom Makris/Production/D06/ODOT on 05/02/2008 10:26 AM —



"Bronson Funke"  
<bfunke@palmernet.com>

05/02/2008 10:21 AM

To <Tom.Makris@dot.state.oh.us>

cc "Craig Jacob" <cjacob@palmernet.com>

Subject RE: Fw: Prebid 080301 MAR-4D  
PID 79938

Tom,

I've reviewed our notes and spoke with Craig. We've determined that the thickness established for removal was based on our thought that it was unnecessary to remove additional deck concrete with the overlay. We assumed that when the original deck was prepped for installation of the latex overlay, some portion of the original deck was removed. We didn't feel additional removal would have been needed.

If District policy is to remove an additional 1/2" regardless of the site, then your addendum is needed. If you wanted to avoid a ding for an addendum, we could leave the plans as is realizing that the additional 848 pay items should remove any unsound deck concrete. If you chose to forego the addendum, we should still provide an explanation to answer the pre-bid question.

BF

**From:** Tom.Makris@dot.state.oh.us [mailto:Tom.Makris@dot.state.oh.us]

**Sent:** Friday, May 02, 2008 9:31 AM

**To:** Dennis.Sheets@dot.state.oh.us

---

**Cc:** Bronson Funke; Dan Ficker

**Subject:** Re: Fw: Prebid 080301 MAR-4D PID 79938

Dennis,

Yes, an addendum is needed.

Please change the following pay item descriptions for bridge numbers MAR-4D-0070 (line 54) and MAR-95-1436 (line 73)

Item 848 ext 10000, MICRO SILICA OVERLAY USING HYDRODEMOLITION (1-1/4" THICK) to  
Item 848 ext 10000, MICRO SILICA OVERLAY USING HYDRODEMOLITION (1-3/4" THICK)

The additional 1/2" thickness of existing Portland cement deck is removed to achieve a sound concrete base for the proposed micro-silica concrete overlay.

Respectfully,

Thomas G. Makris, P.E.  
Project Manager  
ODOT District 6  
(740) 833.8084  
(740) 833-8094 Fax  
tom.makris@dot.state.oh.us

Dennis Sheets/Production/D06/ODOT

05/01/2008 03:57 PM

To: Tom Makris/Production/D06/ODOT@ODOT  
cc  
Subject: Fw: Prebid 080301 MAR-4D PID 79938

If an addendum is needed, I need a response by 9:00 tomorrow morning.

Dennis S. Sheets

ODOT - District Six Production  
400 East William Street  
Delaware, Ohio 43015  
Phone: (740) 833-8089  
Fax: (740) 833-8094  
Columbus Phone: (614) 995-7906, ext. 833-8089  
E-mail: Dennis.Sheets@dot.state.oh.us

----- Forwarded by Dennis Sheets/Production/D06/ODOT on 05/01/2008 03:55 PM -----

Prebid/Estimating/C  
EN/ODOT

05/01/2008 03:46  
PM

To: Herb Ligocki/Production/D06/ODOT@ODOT, Dennis Sheets/Production/D06/ODOT@ODOT,  
Dave Poling/Production/D06/ODOT@ODOT, Thomas Lyden/Highway/D06/ODOT@ODOT, Jim  
Sparkes/Estimating/CEN/ODOT@ODOT, Brad Jones/Construction/D06/ODOT@ODOT, Thom  
Slack/Planning/D06/ODOT@ODOT, Bruce Birch/Production/D06/ODOT@ODOT, Hassan  
Zahran/Construction/D06/ODOT@ODOT

cc

Subject: Prebid 080301 MAR-4D PID 79938

Please address the following prebid question ASAP. This project bids May 7, and the cutoff for addenda is Apr 29.

Thanks!

Joe Toth -ODOT Office of Estimating

\*\*\*\*\*  
\*

Company\_Name: Complete General Construction Company  
Email\_Address: danderso@completegeneral.com  
Contact\_Name: David Anderson  
Contact\_Phone: 614-258-9515  
Project\_No: 080301  
Letting\_Date: 05/07/2008  
Date: 05/01/2008  
Time: 03:41:59 PM

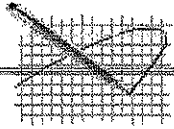
Question\_Body:

Reference is made to Structure MAR-4D-0070. Ref. No. 54 requires 1.25" Micro Silica o/l using hydro-demolition. Ref. No. 60 provides for the removal of 1.25" of existing concrete o/l. The new overlay is placed to the same elevation as the existing overlay. The 1.25" of m/s does not reflect any

existing concrete removal by hydro-demolition. Please review.  
This condition also exists at Structure MAR-95-1436.

---

Other\_Info:



Dennis  
Sheets/Production/D06/ODOT

05/02/2008 09:41 AM

To Prebid/Estimating/CEN/ODOT  
cc Herb Ligocki/Production/D06/ODOT@ODOT, Tom  
Makris/Production/D06/ODOT@ODOT, Mike  
Longberry/Planning/D06/ODOT@ODOT

bcc

Subject ADDENDUM - MAR-4D-0.70, PID 79938, Proj 080301

Joe,

I have placed the attached addendum on the server that answers the pre-bid question.



79938-Addendum(a).doc

Dennis S. Sheets  
ODOT - District Six Production  
400 East William Street  
Delaware, Ohio 43015  
Phone: (740) 833-8089  
Fax: (740) 833-8094  
Columbus Phone: (614) 995-7906, ext. 833-8089  
E-mail: Dennis.Sheets@dot.state.oh.us

**Proposal Addendum**  
for  
~~MAR-4D-0-70/MAR-95-14.36, PID 79938~~  
**Project 080301**

**Be advised of the following:**

**Revised Bid Items:**

REF NO	ITEM NUMBER	QUANTITY	UNIT	DESCRIPTION
0054	848E10000	2,638	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION (1-3/4")
0073	848E10001	2,638	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1-3/4")

**PRE-BID QUESTIONS/RESPONSES:**

Q #1: Reference is made to Structure MAR-4D-0070. Ref. No. 54 requires 1.25" Micro Silica o/l using hydro-demolition. Ref. No. 60 provides for the removal of 1.25" of existing concrete o/l. The new overlay is placed to the same elevation as the existing overlay. The 1.25" of m/s does not reflect any existing concrete removal by hydro-demolition. Please review.

This condition also exists at Structure MAR-95-1436.

A: Revise the following pay item descriptions for bridge numbers MAR-4D-0070 (line 54) and MAR-95-1436 (line 73)

Item 848 ext 10000, MICRO SILICA OVERLAY USING HYDRODEMOLITION (1-1/4" THICK) to  
Item 848 ext 10000, MICRO SILICA OVERLAY USING HYDRODEMOLITION (1-3/4" THICK)

and

Item 848 ext 10001, MICRO SILICA OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1-1/4" THICK) to

Item 848 ext 10001, MICRO SILICA OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1-3/4" THICK)

The additional 1/2" thickness of existing Portland cement deck is removed to achieve a sound concrete base for the proposed micro-silica concrete overlay.





Tom  
Makris/Production/D06/ODOT  
05/02/2008 09:31 AM

To Dennis Sheets/Production/D06/ODOT@ODOT  
cc bfunke@palmernet.com, dficker@palmernet.com  
bcc  
Subject Re: Fw: Prebid 080301 MAR-4D  
PID 79938

Dennis,

Yes, an addendum is needed.

Please change the following pay item descriptions for bridge numbers MAR-4D-0070 (line 54) and MAR-95-1436 (line 73)

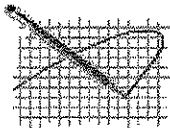
Item 848 ext 10000, MICRO SILICA OVERLAY USING HYDRODEMOLITION (1-1/4" THICK) to  
Item 848 ext 10000, MICRO SILICA OVERLAY USING HYDRODEMOLITION (1-3/4" THICK)

The additional 1/2" thickness of existing Portland cement deck is removed to achieve a sound concrete base for the proposed micro-silica concrete overlay.

Respectfully,

Thomas G. Makris, P.E.  
Project Manager  
ODOT District 6  
(740) 833.8084  
(740) 833-8094 Fax  
tom.makris@dot.state.oh.us

Dennis Sheets/Production/D06/ODOT



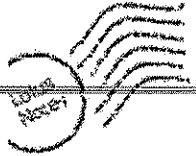
Dennis  
Sheets/Production/D06/ODO  
T  
05/01/2008 03:57 PM

To Tom Makris/Production/D06/ODOT@ODOT  
cc  
Subject Fw: Prebid 080301 MAR-4D PID  
79938

If an addendum is needed, I need a response by 9:00 tomorrow morning.

Dennis S. Sheets  
ODOT - District Six Production  
400 East William Street  
Delaware, Ohio 43015  
Phone: (740) 833-8089  
Fax: (740) 833-8094  
Columbus Phone: (614) 995-7906, ext. 833-8089  
E-mail: Dennis.Sheets@dot.state.oh.us

----- Forwarded by Dennis Sheets/Production/D06/ODOT on 05/01/2008 03:55 PM -----



Prebid/Estimating/CEN/ODO  
T  
05/01/2008 03:46 PM

To Herb Ligocki/Production/D06/ODOT@ODOT, Dennis  
Sheets/Production/D06/ODOT@ODOT, Dave  
Poling/Production/D06/ODOT@ODOT, Thomas  
Lyden/Highway/D06/ODOT@ODOT, Jim  
Sparkes/Estimating/CEN/ODOT@ODOT, Brad  
Jones/Construction/D06/ODOT@ODOT, Thom  
Slack/Planning/D06/ODOT@ODOT, Bruce  
Birch/Production/D06/ODOT@ODOT, Hassan  
Zahran/Construction/D06/ODOT@ODOT

cc

Subject Prebid 080301 MAR-4D PID 79938

Please address the following prebid question ASAP. This project bids May 7, and the cutoff for addenda is Apr 29.

Thanks!

Joe Toth -ODOT Office of Estimating

\*\*\*\*\*  
\*

Company\_Name: Complete General Construction Company  
Email\_Address: danderso@completegeneral.com  
Contact\_Name: David Anderson  
Contact\_Phone: 614-258-9515  
Project\_No: 080301  
Letting\_Date: 05/07/2008  
Date: 05/01/2008  
Time: 03:41:59 PM

Question\_Body:

Reference is made to Structure MAR-4D-0070. Ref. No. 54 requires 1.25" Micro Silica o/l using hydro-demolition. Ref. No. 60 provides for the removal of 1.25" of existing concrete o/l. The new overlay is placed to the same elevation as the existing overlay. The 1.25" of m/s does not reflect any existing concrete removal by hydro-demolition. Please review. This condition also exists at Structure MAR-95-1436.

Other\_Info:



Tom Makris/Production/D06/ODOT

05/02/2008 07:21 AM

To Dennis Sheets/Production/D06/ODOT@ODOT

cc

bcc

Subject Fw: Prebid 080301 MAR-4D PID  
79938

Dennis,

FYI.

Respectfully,

Thomas G. Makris, P.E.  
Project Manager  
ODOT District 6  
(740) 833.8084  
(740) 833-8094 Fax  
tom.makris@dot.state.oh.us

— Forwarded by Tom Makris/Production/D06/ODOT on 05/02/2008 07:20 AM —



"Craig Jacob"  
<cjacob@palmernet.com>

05/01/2008 05:45 PM

To <Tom.Makris@dot.state.oh.us>

cc "Dan Ficker" <dficker@palmernet.com>, "Bronson Funke"  
<bfunke@palmernet.com>

Subject RE: Prebid 080301 MAR-4D PID  
79938

In response to the contractor's question concerning Structures MAR-4D-0070 and MAR-95-1436:

The existing latex modified concrete overlays on the bridge decks are to be removed and new silica modified overlays are to be placed on the decks to meet the existing profile elevations. The existing overlays are estimated to be 1 1/4" thick based on rehab plans and field measurements. Therefore, the proposed overlays are estimated at 1 1/4" thickness.

The removal of the existing overlays does not include removal of deck concrete.

Craig Jacob, P.E.  
Email: [cjacob@palmernet.com](mailto:cjacob@palmernet.com)

**From:** Dan Ficker  
**Sent:** Thursday, May 01, 2008 4:13 PM  
**To:** Craig Jacob  
**Cc:** Bronson Funke  
**Subject:** FW: Prebid 080301 MAR-4D PID 79938

**Importance:** High

~~Craig, This needs reviewed and answered ASAP~~

-----  
Daniel P. Ficker, P.E.  
Project Engineer

Suite 105, Cornell Plaza  
11300 Cornell Park Drive  
Cincinnati, OH 45242  
Phone: 513-469-1600  
Fax: 513-469-1608  
[www.palmernet.com](http://www.palmernet.com)

**From:** Tom.Makris@dot.state.oh.us [mailto:Tom.Makris@dot.state.oh.us]  
**Sent:** Thursday, May 01, 2008 4:10 PM  
**To:** Bronson Funke; Dan Ficker  
**Subject:** Fw: Prebid 080301 MAR-4D PID 79938

Bronson and Dan,

Please respond to the prebid question shown below.

Respectfully,

Thomas G. Makris, P.E.  
Project Manager  
ODOT District 6  
(740) 833.8084  
(740) 833-8094 Fax  
tom.makris@dot.state.oh.us

----- Forwarded by Tom Makris/Production/D06/ODOT on 05/01/2008 04:08 PM -----  
Dennis Sheets/Production/D06/ODOT

05/01/2008 03:57 PM

To Tom Makris/Production/D06/ODOT@ODOT  
cc  
Subject Fw: Prebid 080301 MAR-4D PID 79938

If an addendum is needed, I need a response by 9:00 tomorrow morning.

---

Dennis S. Sheets  
ODOT - District Six Production  
400 East William Street  
Delaware, Ohio 43015  
Phone: (740) 833-8089  
Fax: (740) 833-8094  
Columbus Phone: (614) 995-7906, ext. 833-8089  
E-mail: Dennis.Sheets@dot.state.oh.us

----- Forwarded by Dennis Sheets/Production/D06/ODOT on 05/01/2008 03:55 PM -----

Prebid/Estimating/  
CEN/ODOT

05/01/2008 03:46  
PM

To Herb Ligocki/Production/D06/ODOT@ODOT, Dennis Sheets/Production/D06/ODOT@ODOT,  
Dave Poling/Production/D06/ODOT@ODOT, Thomas Lyden/Highway/D06/ODOT@ODOT,  
Jim Sparkes/Estimating/CEN/ODOT@ODOT, Brad Jones/Construction/D06/ODOT@ODOT,  
Thom Slack/Planning/D06/ODOT@ODOT, Bruce Birch/Production/D06/ODOT@ODOT,  
Hassan Zahran/Construction/D06/ODOT@ODOT

cc

Subject Prebid 080301 MAR-4D PID 79938

Please address the following prebid question ASAP. This project bids May 7, and the cutoff for addenda is Apr 29.

Thanks!

Joe Toth -ODOT Office of Estimating

\*\*\*\*\*  
\*

Company\_Name: Complete General Construction Company  
Email\_Address: danderso@completegeneral.com  
Contact\_Name: David Anderson  
Contact\_Phone: 614-258-9515  
Project\_No: 080301  
Letting\_Date: 05/07/2008  
Date: 05/01/2008  
Time: 03:41:59 PM

Question\_Body:

Reference is made to Structure MAR-4D-0070. Ref. No. 54 requires 1.25" Micro Silica o/l using hydro-demolition. Ref. No. 60 provides for the removal of 1.25" of existing concrete o/l. The new overlay is placed to the same

elevation as the existing overlay. The 1.25" of m/s does not reflect any existing concrete removal by hydro-demolition. Please review.

This condition also exists at Structure MAR-95-1436.

Other\_Info:



Dennis  
Sheets/Production/D06/ODOT

To Tom Makris/Production/D06/ODOT

cc

05/01/2008 03:57 PM

bcc

Subject Fw: Prebid 080301 MAR-4D PID  
79938

If an addendum is needed, I need a response by 9:00 tomorrow morning.

Dennis S. Sheets  
ODOT - District Six Production  
400 East William Street  
Delaware, Ohio 43015  
Phone: (740) 833-8089  
Fax: (740) 833-8094  
Columbus Phone: (614) 995-7906, ext. 833-8089  
E-mail: Dennis.Sheets@dot.state.oh.us

--- Forwarded by Dennis Sheets/Production/D06/ODOT on 05/01/2008 03:55 PM ---



Prebid/Estimating/CEN/ODO  
T

05/01/2008 03:46 PM

To Herb Ligocki/Production/D06/ODOT@ODOT, Dennis  
Sheets/Production/D06/ODOT@ODOT, Dave  
Poling/Production/D06/ODOT@ODOT, Thomas  
Lyden/Highway/D06/ODOT@ODOT, Jim  
Sparkes/Estimating/CEN/ODOT@ODOT, Brad  
Jones/Construction/D06/ODOT@ODOT, Thom  
Slack/Planning/D06/ODOT@ODOT, Bruce  
Birch/Production/D06/ODOT@ODOT, Hassan  
Zahran/Construction/D06/ODOT@ODOT

cc

Subject Prebid 080301 MAR-4D PID 79938

Please address the following prebid question ASAP. This project bids May 7, and the cutoff for addenda is Apr 29.

Thanks!

Joe Toth -ODOT Office of Estimating

\*\*\*\*\*  
\*

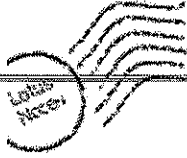
Company Name: Complete General Construction Company  
Email Address: danderso@completegeneral.com  
Contact Name: David Anderson  
Contact Phone: 614-258-9515  
Project No: 080301  
Letting Date: 05/07/2008  
Date: 05/01/2008  
Time: 03:41:59 PM

Question Body:

Reference is made to Structure MAR-4D-0070. Ref. No. 54 requires 1.25" Micro Silica o/l using hydro-demolition. Ref. No. 60 provides for the removal of 1.25" of existing concrete o/l. The new overlay is placed to the same elevation as the existing overlay. The 1.25" of m/s does not reflect any existing concrete removal by hydro-demolition. Please review. This condition also exists at Structure MAR-95-1436.

Other\_Info:





Prebid/Estimating/CEN/ODOT  
05/01/2008 03:46 PM

To Herb Ligocki/Production/D06/ODOT@ODOT, Dennis  
Sheets/Production/D06/ODOT@ODOT, Dave  
Poling/Production/D06/ODOT@ODOT, Thomas

cc

bcc

Subject Prebid 080301 MAR-4D PID 79938

Please address the following prebid question ASAP. This project bids May 7, and the cutoff for addenda is Apr 29.

Thanks!

Joe Toth -ODOT Office of Estimating

\*\*\*\*\*  
\*

Company\_Name: Complete General Construction Company  
Email\_Address: danderso@completegeneral.com  
Contact\_Name: David Anderson  
Contact\_Phone: 614-258-9515  
Project\_No: 080301  
Letting\_Date: 05/07/2008  
Date: 05/01/2008  
Time: 03:41:59 PM

Question\_Body:

Reference is made to Structure MAR-4D-0070. Ref. No. 54 requires 1.25" Micro Silica o/l using hydro-demolition. Ref. No. 60 provides for the removal of 1.25" of existing concrete o/l. The new overlay is placed to the same elevation as the existing overlay. The 1.25" of m/s does not reflect any existing concrete removal by hydro-demolition. Please review. This condition also exists at Structure MAR-95-1436.

Other\_Info:

# OHIO DEPARTMENT OF TRANSPORTATION

## Project Plan Package Submittal Form

DATE: February 11, 2008

TO: Jeffrey M. Hisem, Administrator, Office of Estimating  
**Attn: Debra Neal-Harris**

FROM: Thomas J. Wester/Herbert W. Ligocki, District Deputy Director/Production Administrator

BY: Tom Makris, District Contract Person - Phone Ext. 833-8084

SUBJECT: Submission Plan Package for MAR-4D/95-0.70/14.36  
 (county, route, section)

PID NUMBER	<u>79938</u>	STATE JOB NUMBER	<u>466010</u>
FEDERAL NUMBER (FAN)	<u>E051291</u>	TOTAL PLAN SHEETS 1 thru	<u>43</u>
C-2 AMOUNT	<u>\$1,371,174.00</u>		

**The following documents are required and have been included with the package. Place a (X) in front of all items that apply. Place (NA) on items not applicable.**

<u>N/A</u>	Reservoir (year) _____	<u>X</u>	CAP Project
<u>N/A</u>	Emergency	<u>N/A</u>	FOR Project
<u>N/A</u>	Facilities	<u>N/A</u>	Pre-Bid Meeting
		<u>N/A</u>	Design-Build (Attach Design-Build Supplement Form)

<u>N/A</u>	Warranty		<b><u>Item</u></b>	<b><u>Spec #</u></b>	<b><u>Period</u></b>
		<input type="checkbox"/>	Asphalt Overlay	SS 1059	3 Years
		<input type="checkbox"/>	Asphalt Pavement	SS 880	7 Years
		<input type="checkbox"/>	Bridge Painting	SS 885	5 Years
		<input type="checkbox"/>	Chip Seal	SS 882	3 Years
		<input type="checkbox"/>	Concrete Pavement	SS 884	7 Years
		<input type="checkbox"/>	Hot Recycling	SS 886	3 Years
		<input type="checkbox"/>	Microsurfacing	SS 881	3 Years
		<input type="checkbox"/>	New Deck	SS 894	7 Years

N/A **Mylar Plan Submittal to Include:**

- Design Plans (bound originals + 2 copies bounded)
- Right-of-Way Plans (tracings)
- Foundation Investigation (tracings) - Sheets 1 thru \_\_\_\_\_
- Soil Profile (tracings) - Sheets 1 thru \_\_\_\_\_

X **Electronic Plan Submittal to Include:**

- X Design Plans
- N/A Right-of-Way Plans
- N/A Foundation Investigation - Sheets 1 thru \_\_\_\_\_
- N/A Soil Profile - Sheets 1 thru \_\_\_\_\_

- X LD-4 Estimating Information Form (copy)
- X C-2 Estimate (copy)
- N/A Temporary Roadway Earthwork Tabulation, \_\_\_\_\_ (copy) \_\_\_\_\_ (note in plan)
- X Job Tailored Proposal Notes and a List of Recommended Standard Proposal Notes
- N/A Special Provisions (type of document)

- X Railroad Agreement(s), No. of (originals) \_\_\_\_\_
- X Railroad Clause(s), No. of (originals) \_\_\_\_\_
- X Railroad Detail Estimate(s), No of (originals) \_\_\_\_\_
- N/A Accident Analysis Information (copy)
- N/A FAA Coordination, \_\_\_\_\_ (copy) \_\_\_\_\_ (note in plan)
- N/A Park Board Resolution (original)
- X Preliminary Legislation - No. of (originals) 0

County/Municipality: City of Marion

Resolution/Ordinance No. 2005-99 Date: 12/12/2005

County/Municipality \_\_\_\_\_

Resolution/Ordinance No. \_\_\_\_\_ Date: \_\_\_\_\_

- N/A Interstate Route Maintenance Agreement (copy)
- N/A Local Agreements (copy) - example: OPWC, ODOD, etc. **(must be in Ellis)**
- N/A Funding Max Information - example: MPO, Local, District, CMAQ, etc. **(must be in Ellis)**
- N/A Local Right-of-Way Deposit Information **(must be in Ellis)**

- X Right-of-Way Certification **(original and 1 copy)**
  - 0 No. of Parcels
  - N/A Encroachments
  - X Utility Owner's Names/Addresses (on tracings)
  - X Utility Clearance Date: 4/25/2007

- N/A Utility Note (copy)
- X Environmental Consultation Form (**original and 1 copy**)  
**Note: Project design must be in accordance with environmental document approval**
- N/A Non-Federal Funded CE A1 or CE Level 1, with no Corps of Engineers/404 Permit Required  
Approval Date \_\_\_\_\_
- N/A Ohio EPA Notice of Intent sent to EPA (copy).
- N/A Approved Design Exceptions (copy)
- N/A Emergency Project Documentation
- \_\_\_ Emergency Project Request Form
- \_\_\_ Emergency Declaration
- \_\_\_ Bidder's List (minimum of 3) – Type B Only
- \_\_\_ FHWA Waiver of Advertising – Federal Projects Only
- X Electronic Design Files
- X GASB Asset Management Form

Project on the approved STIP/TIP: ID No.: 1345, construction year: 2008, MPO None

Design Agency: Palmer Engineering Company

Structure Plans Certified by: B&N , URS , District

**Sale/Completion Date Information:**

The District requests a 5/7/2008 Sale Date. A Construction Completion Date of 10/31/2008

is requested based on 120 days required for construction.

**Special Considerations/Remarks: \$2,000.00 has been provided for Item 832 EACH Erosion Control. .**

c: H.W Ligocki\*, H Grimes\*, T. Makris\*, B. Jones, Project File\*, Chrono File, P. Druckenmiller

\* Attachments

**Revised: March 2007**

OHIO DEPARTMENT OF TRANSPORTATION  
ESTIMATING INFORMATION

COUNTY: MARION

ROUTE: SR 4D, SR 95

SECTION: 0.70, 14.36

1. ITEM 201: TREES AND STUMPS TO BE REMOVED AND DISPOSED OF:

SIZES	<12 in [0.3m]	18 in [0.5 m]	30 in [0.8 m]	48 in [1.2 m]	60 in [1.2 m]
No of Trees	10	_____	_____	_____	_____
No. of stumps	-	_____	_____	_____	_____

2. ITEM 202: EXISTING PAVEMENT TO BE REMOVED AND DISPOSED OF:

Type	_____	ASPHALT	_____	_____	_____
Thickness	_____	1.5" +/-	_____	_____	_____
Quantity	_____	423 SQ YD	_____	_____	_____

3. ITEM 202: EXISTING PIPE REMOVED:

Size and Type of Pipe	8" TYPE C	_____	_____	_____	_____
Quantity	75 FT	_____	_____	_____	_____
Avg. Depth of Trench (ft)[m]	3 FT	_____	_____	_____	_____

4. ITEM 202: EXISTING STRUCTURES (OR PORTIONS OF) REMOVED AND DISPOSED OF:

Culvert or Structure No.		4D-0070	95-1436	_____	_____
Plain Conc.	(y d <sup>3</sup> )[ m <sup>3</sup> ]	_____	_____	_____	_____
Reinf. Conc.	(yd <sup>3</sup> )[m <sup>3</sup> ]	_____	_____	_____	_____
Stone Masonry	(yd <sup>3</sup> )[m <sup>3</sup> ]	_____	_____	_____	_____
Structural Steel	(lb)[kg]	_____	_____	_____	_____
Timber Deck	(in thick & ft <sup>2</sup> ) [mm thick & m <sup>2</sup> ]	_____	_____	_____	_____
Asphalt Surface	(in thick & ft <sup>2</sup> ) [mm thick & m <sup>2</sup> ]	_____	_____	_____	_____
Other		2252 SY T=1.25"	2663 SY T=1.25"	_____	_____

NOTE: The above information is for structures of any span and not limited to the definition of a structure.

5. ITEM 203: CLASSIFICATION OF ROADWAY EXCAVATION INTO:

(a) Earth	_____	(b) Silt, Peat, Waterbearing Sand	_____
(c) Shale (laminated, broken)	_____	(d) Shale (firm, solid)	_____
(e) Sandstone (laminated, broken)	_____	(f) Sandstone (firm, solid)	_____
(g) Limestone (laminated, broken)	_____	(h) Limestone (firm, solid)	_____
(i) Other	_____		_____

6. ITEM 203: BORROW

Required (yd <sup>3</sup> )[m <sup>3</sup> ]	_____	;	Average Haul (miles)	_____
--	-------	---	----------------------	-------

7. ITEM 254: PAVEMENT PLANING, ASPHALT CONCRETE:

Depth (in)[mm]	3"	_____	_____	_____	_____
----------------	----	-------	-------	-------	-------

8. AGGREGATE INFORMATION:

Size	_____	_____	_____	_____	_____
Cost/yd <sup>3</sup> [Cost/m <sup>3</sup> ]	_____	_____	_____	_____	_____
Avg. Haul	_____	_____	_____	_____	_____

9. ITEM 446 OR 448: ASPHALT CONCRETE:

Item	448	_____	_____	_____	_____
Cost/yd <sup>3</sup> [Cost/m <sup>3</sup> ]	\$180/YD3	_____	_____	_____	_____
Avg. Haul	4 MILES	_____	_____	_____	_____

10. ITEM 502: STRUCTURE FOR MAINTAINING TRAFFIC:

Description:	_____	_____	_____	_____	_____
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LD-4  
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**OHIO DEPARTMENT OF TRANSPORTATION  
ESTIMATING INFORMATION**

NOTE: Describe the structure, include estimated quantities (if not detailed in the plans).

**OHIO DEPARTMENT OF TRANSPORTATION  
ESTIMATING INFORMATION**

**11. ITEM 503: UNCLASSIFIED EXCAVATION:**

Structure No.	_____	_____	_____	_____	_____
Required (yd <sup>3</sup> )[m <sup>3</sup> ]	_____	_____	_____	_____	_____

NOTE: Provide a quantity when this item is bid as lump sum.

**12. ITEM 509: REINFORCING STEEL**

Structure No. or Type		<b>4D-0070</b>	_____	_____	_____	_____
Deck	(lb)[kg]	--	_____	_____	_____	_____
Footing	(lb)[kg]	--	_____	_____	_____	_____
Piers	(lb)[kg]	--	_____	_____	_____	_____
Abutments	(lb)[kg]	<b>9.5 lbs</b>	_____	_____	_____	_____
Walls	(lb)[kg]	_____	_____	_____	_____	_____

NOTE: Provide a quantity when this item is bid as Lump Sum.

**13. ITEM 511: CONCRETE**

Type	<b>CLASS C</b>	_____	_____	_____	_____
Cost/yd <sup>3</sup> [Cost/m <sup>3</sup> ]	<b>\$200</b>	_____	_____	_____	_____
Avg. Haul	<b>5 MILES</b>	_____	_____	_____	_____

**14. ITEM 513: STRUCTURAL STEEL:**

Structure No.	_____	_____	_____	_____	_____
Pound[Kilogram]	_____	_____	_____	_____	_____

NOTE: Provide a quantity when this item is bid as Lump Sum.

**15. ITEM 514: STEEL SURFACES TO BE PAINTED:**

Structure No.		_____	_____	_____	_____	_____
OZEU	(ft <sup>2</sup> )[m <sup>2</sup> ]	_____	_____	_____	_____	_____
IZEU	(lb)[kg]	_____	_____	_____	_____	_____

NOTE: Provide a quantity when this item is bid as Lump Sum.

**16. ITEM 518: POROUS BACKFILL:**

Structure No.	_____	_____	_____	_____	_____
Required (yd <sup>3</sup> )[m <sup>3</sup> ]	_____	_____	_____	_____	_____

NOTE: Provide a quantity when this item is bid as lump sum.

**17. ITEM 603: PIPE CULVERTS, SEWERS AND DRAINS:**

Size and Type of Conduit	<b>8" TYPE C</b>	<b>12" TYPE B</b>	_____	_____	_____	_____
Avg. Depth(Ex. ground to flowline)	<b>3 FT</b>	<b>5 FT</b>	_____	_____	_____	_____
Size and Type of Conduit	_____	_____	_____	_____	_____	_____
Avg. Depth(Ex. ground to flowline)	_____	_____	_____	_____	_____	_____

**18. ITEM 604: MANHOLES, CATCH BASINS, INLETS:**

Type	<b>CB3</b>	_____	_____	_____	_____
Quantity	<b>4</b>	_____	_____	_____	_____
Avg. Depth	<b>5 FT</b>	_____	_____	_____	_____

**19. ITEM 615: ROADS AND PAVEMENTS FOR MAINTAINING TRAFFIC:**

Excavation:	_____	_____	_____	_____	_____
Embankment:	_____	_____	_____	_____	_____
Guardrail:	_____	_____	_____	_____	_____
Drainage:	_____	_____	_____	_____	_____
Other:	_____	_____	Description: _____	_____	_____

OHIO DEPARTMENT OF TRANSPORTATION  
ESTIMATING INFORMATION

20. ITEM SPECIAL: ARES RETAINING WALL SYSTEM  
ITEM SPECIAL: REINFORCED EARTH WALL SYSTEM  
ITEM SPECIAL: RETAINED EARTH WALL SYSTEM  
ITEM SPECIAL: MSE PLUS RETAINING WALL SYSTEM

Wall Designation	_____	_____	_____	_____
Leveling Pad Concrete, f'c = 2500 psi (yd3):	_____	_____	_____	_____
Select Granular Fill Material, CMS 304 or CMS 703.11 Type 2 (yd3):	_____	_____	_____	_____
Embankment Material, CMS 203 (yd3):	_____	_____	_____	_____
Porous Backfill with Filter Fabric, CMS 518 (yd3):	_____	_____	_____	_____
6" Perforated Plastic Pipe, CMS 707.33 (ft):	_____	_____	_____	_____
Excavation, CMS 503 (yd3):	_____	_____	_____	_____
Pile sleeves, CMS 707.33 or 707.42 (ft):	_____	_____	_____	_____
Epoxy Urethane Sealer, CMS 512 (yd2):	_____	_____	_____	_____

21. ITEM SPECIAL: CONCRETE COPING  
ITEM SPECIAL: CONCRETE COPING INCLUDING SLEEPER SLAB

Wall Designation	_____	_____	_____	_____
Class C Concrete, CMS 511 (yd3)	_____	_____	_____	_____
Epoxy Urethane Sealer, CMS 512 (yd2)	_____	_____	_____	_____
Epoxy Coated Reinforcing Steel, CMS 509 (lb)	_____	_____	_____	_____

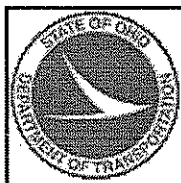
22. MISCELLANEOUS ITEMS:

Item:	<u>518E 62100</u>	<u>53000200</u>	_____	_____	_____
Unit:	<u>FT</u>	<u>LUMP</u>	_____	_____	_____

SUBMITTED BY: PALMER ENGINEERING  
SUITE 105, CORNELL PLAZA  
11300 CORNELL PARK DR.  
CINCINNATI, OH 45242

DATE: 11/1/2007





## Ohio Department of Transportation: ELLIS Reporting

User:
tlongber
Date:
01/18/2008

### Basic Project Information

<b>Project Name:</b>	MAR SR 4D 0.70	<b>PID:</b>	79938
<b>Project Status:</b>	Active	<b>Responsible District:</b>	D6
<b>Project Type:</b>	Let	<b>PDP Classification:</b>	Minor
<b>Locale:</b>	MAR	<b>Project Tracked:</b>	No
<b>Project Description:</b>	MAR-4D-0070. MARION. NORTH PROSPECT STREET OVER CSX RAILROAD. OVERLAY DECK AND APPROACHES; REPLACE EXPANSION JOINTS; CURB REPAIR; RESET BEARINGS; SEAL SUBSTRUCTURE AND BEAMS. MAR-95-1436. MARION. COLUMBIA STREET OVER CSX AND N&S RAILROADS. OVERLAY DECK AND APPROACHES; PATCH PIERS AND PIER CAPS; SEAL SUBSTRUCTURE AND BEAMS. MAR-309-0617. BIG ISLAND TOWNSHIP. OVER LEWIS DITCH. STRUCTURE REPLACEMENT - WORK WILL NOW BE PERFORMED BY D6 BRIDGE CREWS. BRONSON FUNKE IS THE PM.		

### Project Funding Information

**Project Estimate:** \$1,371,174.00

Phase	Requested STIP Year	Approved STIP Year	Federal Agreement Numbers	State Job Numbers	Phase Estimate	Funding Committed	Authorized Date			
• Preliminary Engineering	2006			• 466010	\$305,510.00					
		<b>Subphase</b>		<b>Estimate</b>		<b>Funding Committed</b>				
		• Detailed Design		\$304,510.00						
	<b>Event Name</b>	<b>Estimate</b>	<b>Grouping</b>	<b>Improvement Code</b>	<b>Encumbrance Requests</b>	<b>Committed Funding</b>	<b>Toll Revenue Contribution</b>	<b>Status</b>		
•	Detail Design 01	\$218,750.00		Preliminary Engineering	• PE 01 (715742)	Yes	\$0.00	Reviewed		
	<b>Line #</b>	<b>Est. Fund</b>	<b>Billing Fund</b>	<b>Priority</b>	<b>Type</b>	<b>Pro Rata %</b>	<b>Estimate Amount</b>	<b>100% Toll</b>	<b>Toll Revenue Amt.</b>	<b>Adj. Total</b>
•	1	4PS7/0006	002		State	100	\$218,750.00	No	\$0.00	\$218,750.00
•	PE 02	\$85,760.00		Preliminary Engineering	• PE 02 (716467)	Yes	\$0.00		\$0.00	New
	<b>Line #</b>	<b>Est. Fund</b>	<b>Billing Fund</b>	<b>Priority</b>	<b>Type</b>	<b>Pro Rata %</b>	<b>Estimate Amount</b>	<b>100% Toll</b>	<b>Toll Revenue Amt.</b>	<b>Adj. Total</b>
•	1	4PS7/0006	002		State	100	\$85,760.00	No	\$0.00	\$85,760.00
•	Review						\$1,000.00			
	<b>Event Name</b>	<b>Estimate</b>	<b>Grouping</b>	<b>Improvement Code</b>	<b>Encumbrance Requests</b>	<b>Committed Funding</b>	<b>Toll Revenue Contribution</b>	<b>Status</b>		
•	PE Review 01	\$1,000.00		Preliminary Engineering	• PE 01 (715742)	Yes	\$0.00	New		
	<b>Line #</b>	<b>Est. Fund</b>	<b>Billing Fund</b>	<b>Priority</b>	<b>Type</b>	<b>Pro Rata %</b>	<b>Estimate Amount</b>	<b>100% Toll</b>	<b>Toll Revenue Amt.</b>	<b>Adj. Total</b>
•	1	LABR	002		State	100	\$1,000.00	No	\$0.00	\$1,000.00
•	Construction	2008	2008				\$1,065,664.00			
	<b>Subphase</b>	<b>Estimate</b>		<b>Funding Committed</b>						
•	Construction Contract	\$918,664.00		\$918,664.00						
	<b>Event Name</b>	<b>Estimate</b>	<b>Grouping</b>	<b>Improvement Code</b>	<b>Encumbrance Requests</b>	<b>Committed Funding</b>	<b>Toll Revenue Contribution</b>	<b>Status</b>		
•	Const Contract	\$918,664.00		Bridge Rehabilitation - No Added Capacity	• CO 01	Yes	\$0.00	Unreviewed		

01

Line #	Est. Fund	Billing Fund	Priority	Type	Pro Rata %	Estimate Amount	100% Toll	Toll Revenue Amt.	Adj. Total
• 1	4PF7/0006	L240		Federal	80	\$734,931.20	No	\$0.00	\$734,931.20
• 2	4PS7/0006	002		State	20	\$183,732.80	No	\$0.00	\$183,732.80

• Construction Engineering \$147,000.00

Event Name	Estimate	Grouping	Improvement Code	Encumbrance Requests	Committed Funding	Toll Revenue Contribution	Status
• Const Engineering 01	\$147,000.00		Construction Engineering	• CO 01	Yes	\$0.00	Reviewed

Line #	Est. Fund	Billing Fund	Priority	Type	Pro Rata %	Estimate Amount	100% Toll	Toll Revenue Amt.	Adj. Total
• 1	LABR	L240		Federal	80	\$117,600.00	No	\$0.00	\$117,600.00
• 2	LABR	002		State	20	\$29,400.00	No	\$0.00	\$29,400.00

## Estimate 79938

Estimated Cost: \$918,663.61

Contingency: 0.00%

**Estimated Total: \$918,663.61**

*MAR-4D-0070; MAR-95-1436: MAR-4D-0070. MARION. NORTH PROSPECT STREET OVER CSX RAILROAD. OVERLAY DECK AND APPROACHES; REPLACE EXPANSION JOINTS; CURB REPAIR; RESET BEARINGS; SEAL SUBSTRUCTURE AND BEAMS. MAR-95-1436. MARION. COLUMBIA STREET OVER CSX AND N&S RAILROADS. OVERLAY DECK AND APPROACHES; PATCH PIERS AND PIER CAPS; SEAL SUBSTRUCTURE AND BEAMS.*

Letting Date: 05/15/08

Spec Year: 05

Unit System: E

Work Type: BRIDGE REHABILITATION

Highway Type: 448 ON 305

Urban/Rural Type: URBAN CLASS

Season: SPRING

County: MARION

*Prepared by Mike Longberry*

<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>					
<b>Group 0002: ROADWAY</b>					
0087	201E11000	1.00	LS	\$5,000.00000	\$5,000.00
CLEARING AND GRUBBING					
0088	202E30000	120.00	SF	\$3.24555	\$389.47
WALK REMOVED					
0089	202E30600	32.00	SY	\$22.13409	\$708.29
CONCRETE MEDIAN REMOVED					
0090	202E35100	75.00	FT	\$13.72593	\$1,029.44
PIPE REMOVED, 24" AND UNDER					
0091	202E58100	4.00	EACH	\$305.81991	\$1,223.28
CATCH BASIN REMOVED					
0092	202E70100	179.00	FT	\$15.82532	\$2,832.73
SPECIAL - PIPE CLEANOUT					
0093	609E54000	33.00	SY	\$49.01062	\$1,617.35
6" CONCRETE TRAFFIC ISLAND					
0094	608E52010	120.00	SF	\$0.00000	\$0.00
CURB RAMP, TYPE A1					

Total for Group 0002: \$12,800.56

**Group 0003: EROSION CONTROL**

0009	832E30000	2,000.00	EACH	\$1.00000	\$2,000.00
EROSION CONTROL					

Total for Group 0003: \$2,000.00

**Group 0004: DRAINAGE**

0010	603E02000	75.00	FT	\$30.15209	\$2,261.41
8" CONDUIT, TYPE C					
0011	603E04400	24.00	FT	\$60.98503	\$1,463.64
12" CONDUIT, TYPE B					
0012	604E00400	4.00	EACH	\$2,458.37137	\$9,833.49
CATCH BASIN, NO. 3					
0013	604E09000	2.00	EACH	\$486.09529	\$972.19
CATCH BASIN ADJUSTED TO GRADE					
0014	604E34500	1.00	EACH	\$615.67599	\$615.68
MANHOLE ADJUSTED TO GRADE					
0015	604E34500	3.00	EACH	\$615.67599	\$1,847.03
MANHOLE ADJUSTED TO GRADE (SANITARY)					

Total for Group 0004: \$16,993.44

**Group 0005: PAVEMENT**

0016	251E01000	115.00	SY	\$83.75200	\$9,631.48
PARTIAL DEPTH PAVEMENT REPAIR					
0017	254E01000	404.00	SY	\$9.18641	\$3,711.31
PAVEMENT PLANING, ASPHALT CONCRETE					
0018	254E01010	228.00	SY	\$8.07067	\$1,840.11
PAVEMENT PLANING, PORTLAND CEMENT CONCRETE					
0019	301E46000	2.00	CY	\$160.30495	\$320.61
ASPHALT CONCRETE BASE, PG64-22					
0020	305E13000	8.00	SY	\$121.53178	\$972.25
9" CONCRETE BASE					
0021	407E10000	30.00	GAL	\$2.34280	\$70.28
TACK COAT					
0022	407E14000	108.00	GAL	\$1.71941	\$185.70

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b>Supplemental Description</b>				
	TACK COAT FOR INTERMEDIATE COURSE				
0023	407E13900	133.00	GAL	\$2.64744	\$352.11
	TACK COAT, 702.13				
0024	448E47020	166.00	CY	\$184.22345	\$30,581.09
	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22				
<b>Total for Group 0005: \$47,664.94</b>					

**Group 0006: TRAFFIC CONTROL**

0025	630E02100	15.00	FT	\$10.66283	\$159.94
	GROUND MOUNTED SUPPORT, NO. 2 POST				
0026	630E80101	4.00	SF	\$26.20692	\$104.83
	SIGN, FLAT SHEET, AS PER PLAN				
<b>Total for Group 0006: \$264.77</b>					

**Group 0007: TRAFFIC CONTROL PAVEMENT MARKING**

0027	646E10101	0.38	MILE	\$4,399.26099	\$1,671.72
	LANE LINE, AS PER PLAN				
0028	646E10201	0.15	MILE	\$6,032.22991	\$904.83
	CENTER LINE, AS PER PLAN				
0029	646E10301	105.00	FT	\$2.23675	\$234.86
	CHANNELIZING LINE, AS PER PLAN				
0030	646E10401	46.00	FT	\$16.80487	\$773.02
	STOP LINE, AS PER PLAN				
0031	646E10501	144.00	FT	\$6.40733	\$922.66
	CROSSWALK LINE, AS PER PLAN				
0032	646E10701	188.00	FT	\$7.80000	\$1,466.40
	CURB MARKING, AS PER PLAN				
0033	646E20301	6.00	EACH	\$165.34530	\$992.07
	LANE ARROW, AS PER PLAN				
<b>Total for Group 0007: \$6,965.56</b>					

**Group 0008: TRAFFIC SIGNAL**

0034	632E26500	3.00	EACH	\$1,206.67879	\$3,620.04
	DETECTOR LOOP				
0035	632E27200	3.00	EACH	\$102.33870	\$307.02
	LOOP DETECTOR TIE IN				
<b>Total for Group 0008: \$3,927.06</b>					

**Group 0009: MAINTENANCE OF TRAFFIC**

0036	614E11100	25.00	HOUR	\$53.77988	\$1,344.50
	LAW ENFORCEMENT OFFICER WITH PATROL CAR				
0037	614E12420	1.00	LS	\$10,000.00000	\$10,000.00
	DETOUR SIGNING				
<b>Total for Group 0009: \$11,344.50</b>					

**Group 0010: STRUCTURE: MAR-4D-0070**

0044	202E23501	156.00	SY	\$6.21227	\$969.11
	WEARING COURSE REMOVED, AS PER PLAN				
0045	511E45701	1.00	CY	\$746.48282	\$746.48
	CLASS C CONCRETE, ABUTMENT, AS PER PLAN				
0046	512E10100	2,252.00	SY	\$12.09906	\$27,247.08
	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)				

<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>					
0047	516E43101	1.00	EACH	\$74.11328	\$74.11
ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE), AS PER PLAN (12" X 7" X 1-3/4")					
0048	516E45305	10.00	EACH	\$503.68427	\$5,036.84
REFURBISH BEARING DEVICE, AS PER PLAN					
0049	518E62100	132.00	FT	\$100.00000	\$13,200.00
STRUCTURE DRAINAGE, MISC. CLEANING AND SEALING SCUPPERS AND DOWNSPOUTS					
0050	519E11101	2,819.00	SF	\$19.25000	\$54,265.75
PATCHING CONCRETE STRUCTURE, AS PER PLAN					
0051	530E00200	1.00	LS	\$1,000.00000	\$1,000.00
SPECIAL - STRUCTURE, MISC.: BEAM REPAIR					
0052	530E00200	1.00	LS	\$1,500.00000	\$1,500.00
SPECIAL - STRUCTURE, MISC.: CLEARING DEBRIS					
0053	848E10000	2,638.00	SY	\$30.75109	\$81,121.38
MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION (1-1/4" THICK)					
0054	848E20000	2,482.00	SY	\$28.22465	\$70,053.58
SURFACE PREPARATION USING HYDRODEMOLITION					
0055	848E30000	41.00	CY	\$144.23835	\$5,913.77
MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY					
0056	848E50000	87.00	SY	\$79.80466	\$6,943.01
HAND CHIPPING					
0057	848E50100	1.00	LS	\$1,000.00000	\$1,000.00
TEST SLAB					
0058	848E50200	16.00	CY	\$163.79263	\$2,620.68
FULL-DEPTH REPAIR					
0059	848E50320	2,482.00	SY	\$5.72866	\$14,218.53
EXISTING CONCRETE OVERLAY REMOVED, 1-3/4" NOMINAL THICKNESS					
0060	848E50340	869.00	SY	\$6.11023	\$5,309.79
REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY					
<b>Total for Group 0010: \$291,220.11</b>					

Group 0011: STRUCTURE: MAR-95-1436

0061	202E23501	267.00	SY	\$6.21227	\$1,658.68
WEARING COURSE REMOVED, AS PER PLAN					
0062	512E10100	1,809.00	SY	\$12.09906	\$21,887.20
SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)					
0063	512E10600	12.00	FT	\$102.23418	\$1,226.81
CONCRETE REPAIR BY EPOXY INJECTION					
0064	516E31000	80.00	FT	\$11.41595	\$913.28
JOINT SEALER					
0065	518E43301	78.00	FT	\$68.50000	\$5,343.00
6" PIPE DOWNSPOUT, INCLUDING SPECIALS, AS PER PLAN					
0066	518E51300	3.00	EACH	\$3,500.00000	\$10,500.00
DOWNSPOUT MODIFICATION: 6" PIPE					
0067	518E62100	63.00	FT	\$100.00000	\$6,300.00
STRUCTURE DRAINAGE, MISC. CLEANING AND SEALING SCUPPERS AND DOWNSPOUTS					
0068	518E62100	172.00	FT	\$20.00000	\$3,440.00
STRUCTURE DRAINAGE, MISC.: 6" PIPE DOWNSPOUT REMOVED					
0069	519E11101	3,188.00	SF	\$19.25000	\$61,369.00
PATCHING CONCRETE STRUCTURE, AS PER PLAN					

<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>					
0070	530E00200	1.00	LS	\$3,500.00000	\$3,500.00
SPECIAL - STRUCTURE, MISC.: CLEARING DEBRIS					
0071	607E39910	1,176.00	FT	\$76.13943	\$89,539.97
VANDAL PROTECTION FENCE, 8' STRAIGHT, COATED FABRIC					
0072	848E10001	2,930.00	SY	\$34.73764	\$101,781.29
MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1-1/4" THICK)					
0073	848E20000	2,663.00	SY	\$28.22465	\$75,162.24
SURFACE PREPARATION USING HYDRODEMOLITION					
0074	848E30000	148.00	CY	\$144.23835	\$21,347.28
MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY					
0075	848E50000	199.00	SY	\$79.80466	\$15,881.13
HAND CHIPPING					
0076	848E50100	1.00	LS	\$1,000.00000	\$1,000.00
TEST SLAB					
0077	848E50200	38.00	CY	\$163.79263	\$6,224.12
FULL-DEPTH REPAIR					
0078	848E50320	2,663.00	SY	\$5.72866	\$15,255.42
EXISTING CONCRETE OVERLAY REMOVED, 1-3/4" NOMINAL THICKNESS					
0082	848E50340	1,989.00	SY	\$6.11023	\$12,153.25
REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY					
<b>Total for Group 0011: \$454,482.67</b>					

Group 0012: INCIDENTAL ITEMS

0038	100E99000	1.00	LS	\$10,000.00000	\$10,000.00
SPECIAL - PREMIUM ON RAILROAD'S PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE					
0039	103E05000	1.00	LS	\$8,500.00000	\$8,500.00
PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND					
0040	614E11000	1.00	LS	\$15,000.00000	\$15,000.00
MAINTAINING TRAFFIC					
0041	619E16010	6.00	MNTH	\$1,500.00000	\$9,000.00
FIELD OFFICE, TYPE B					
0042	623E10000	1.00	LS	\$8,500.00000	\$8,500.00
CONSTRUCTION LAYOUT STAKES					
0043	624E10000	1.00	LS	\$20,000.00000	\$20,000.00
MOBILIZATION					
<b>Total for Group 0012: \$71,000.00</b>					

PROPOSAL NOTE LIST

2005 CMS

PRODUCTION OFFICE DIST. NO. 06

CRS: MAR-4D/95-070/14.36

PID: 79938

DATE: January 30, 2008

BY: Holly Grimes EXT: 833-8370

**100 - GENERAL OR MISCELLANEOUS**

NUMBER	DATE	ITEM	DESCRIPTION
<input type="checkbox"/> 4A	_____		UTILITIES
<input type="checkbox"/> 100	12-16-93		SPECIALTY ITEMS (FOR CENTRAL OFFICE USE ONLY)
<input checked="" type="checkbox"/> 102	1-2-02		RELATIONSHIP BAR CHART SCHEDULE
<input checked="" type="checkbox"/> 103	1-7-98		VALUE ENGINEERING - CONSTRUCTION COSTS
<input type="checkbox"/> 104	1-7-98		VALUE ENGINEERING - CONSTRUCTIONS COSTS & TIME
<input type="checkbox"/> 105	1-18-08		CRITICAL PATH METHOD PROJECT SCHEDULE FOR SHORT DURATION PROJECTS
<input type="checkbox"/> 106	1-18-08		ENVIRONMENTAL MITIGATION BAR CHART SCHEDULE
<input type="checkbox"/> 107	8/10/07		CRITICAL PATH METHOD PROGRESS SCHEDULE
<input type="checkbox"/> 108	1-20-06		DISPUTE REVIEW BOARD
<input checked="" type="checkbox"/> 109	4-15-05		DISPUTE RESOLUTION AND ADMINISTRATIVE CLAIMS PROCESS
<input type="checkbox"/> 110	4-15-05		ESCROW BID DOCUMENTS
<input type="checkbox"/> 120	10-19-07		WORK DAY - FOR USE WITH INNOVATIVE CONTRACTING.
<input type="checkbox"/> 121	10-19-07		INCENTIVE/DISINCENTIVE - FOR USE WITH INNOVATIVE CONTRACTING
<input type="checkbox"/> 122	7-18-03		LIQUIDATED SAVINGS - FOR USE WITH INNOVATIVE CONTRACTING
<input type="checkbox"/> 123	10-19-07		LUMP SUM - FOR USE WITH INNOVATIVE CONTRACTING
<input type="checkbox"/> 124	1-20-06		SPECIAL CLAUSES FOR CALENDAR DAYS OF CONTRACT TIME FOR OPENING TO UNRESTRICTED TRAFFIC
<input type="checkbox"/> 126	4-15-05		REVISIONS TO THE C&MS FOR DESIGN BUILD PROJECTS
<input type="checkbox"/> 125	10-19-07		A PLUS B WITH MULTIPLE SECTION
<input type="checkbox"/> 127	10-19-07		LANE VALUE
<input type="checkbox"/> 128	10-19-07		UNAUTHORIZED LANE USE
<input type="checkbox"/> 129	10-19-07		WINDOW NOTE
<input type="checkbox"/> 130	7-21-06		EXTENSION TO THE COMPLETION DATE FOR WEATHER
<input checked="" type="checkbox"/>	_____		RAILROAD SPECIAL CLAUSES



<input type="checkbox"/>			
<input type="checkbox"/>			

**400 - PAVEMENT**

<u>NUMBER</u>	<u>DATE</u>	<u>ITEM</u>	<u>DESCRIPTION</u>
<input type="checkbox"/> 415	10-21-05		ASPHALT PAVEMENT LONGITUDINAL JOINT CONSTRUCTION
<input type="checkbox"/> 416	7-15-05	301,402,403,404 412,446 AND 448	DESIGN REQUIREMENTS FOR PLANT MIX PAVEMENTS (HEAVY TRAFFIC)
<input checked="" type="checkbox"/> 417	7-15-05	301,402,403,404 412,446 AND 448	DESIGN REQUIREMENTS FOR PLANT MIX PAVEMENTS (MEDIUM TRAFFIC)
<input type="checkbox"/> 418	7-15-05	301,402,403,404 412,446 AND 448	DESIGN REQUIREMENTS FOR PLANT MIX PAVEMENTS (LIGHT TRAFFIC)
<input type="checkbox"/> 419	7-15-05	301,402,403,404 412,446 AND 448	DESIGN REQUIREMENTS FOR PLANT MIX PAVEMENTS (MULTIPLE TRAFFIC)
<input type="checkbox"/> 420	4-21-06		SURFACE SMOOTHNESS REQUIREMENTS
<input type="checkbox"/> 460	7-21-06		NIGHT PAVING: SEALING OF COLD JOINTS
<input type="checkbox"/> 461	7-21-06		NIGHT PAVING: USING MATERIAL TRANSFER DEVICE
<input type="checkbox"/> 462	10-20-06		NIGHT PAVING: WORK SITE LIGHTING
<input type="checkbox"/> 463	4-20-07		JOINT REPAIR USING RAPID STRENGTH CONCRETE WITH MATURITY TESTING
<input type="checkbox"/> 470	4-20-07		THIN LIFT ASPHALT SMOOTHNESS REQUIREMENTS
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			

500 - STRUCTURES

<u>NUMBER</u>	<u>DATE</u>	<u>ITEM</u>	<u>DESCRIPTION</u>
<input type="checkbox"/> 511	4-15-05		PATCHING CONCRETE BRIDGE DECK OVERLAY WITH MIRCO-SILICA MODIFIED CONCRETE
<input type="checkbox"/> 512	7-20-07	SPECIAL	PATCHING CONCRETE BRIDGE DECKS
<input type="checkbox"/> 520	3-1-06		FUEL PRICE ADJUSTMENT NOTE
<input type="checkbox"/> 525	8-2-04		STEEL PRICE ADJUSTMENT NOTE
<input type="checkbox"/> 527	4-15-05	515	HIGH EARLY STRENGTH KEYWAY GROUT FOR PRESTRESSED/POST TENSIONED CONCRETE MEMBERS
<input type="checkbox"/> 531	4-19-02	511	ITEMS 511.11 ANTI-WASHOUT ADMIXTURE FOR UNDERWATER CONCRETING/GROUTING
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			

**600 - TRAFFIC CONTROL, LIGHTING & M O T INCIDENTALS**

<u>NUMBER</u>	<u>DATE</u>	<u>ITEM</u>	<u>DESCRIPTION</u>
<input type="checkbox"/> 621b	4-16-96	632, 633	SIGNAL MAINTENANCE PERSONNEL REQUIREMENTS
<input type="checkbox"/> 623	4-15-05		PROVIDING ELECTRONIC EQUIPMENT FOR CONSTRUCTION LAYOUT
<input type="checkbox"/>			

**650 - ROADSIDE**

<u>NUMBER</u>	<u>DATE</u>	<u>ITEM</u>	<u>DESCRIPTION</u>
<input type="checkbox"/> 651	6-13-03		HERBICIDAL PRODUCT DATA
<input type="checkbox"/>			

**OTHER**

<u>NUMBER</u>	<u>DATE</u>	<u>ITEM</u>	<u>DESCRIPTION</u>
<input type="checkbox"/> 860	4-8-74		GUARANTIES AND WARRANTIES
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			

CONTINUED FROM SECTION

<u>NUMBER</u>	<u>DATE</u>	<u>ITEM</u>	<u>DESCRIPTION</u>
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			

**SPECIALTY ITEMS (108.01)**      *(For Central Office to fill)*

The following items in this contract, **if sublet**, will be treated as "Specialty Items"

<u>NUMBER</u>	<u>DATE</u>	<u>ITEM</u>	<u>DESCRIPTION</u>
_____	_____		_____
_____	_____		_____
_____	_____		_____

Revised 03-02-06

MARION COUNTY  
MAR-4D-00.70; PID 79938A  
CSX TRANSPORTATION INC.;  
Milepost CD-45.20  
CSX OP# OH0591

### SPECIAL CLAUSES IN THE PROPOSAL

The bidder, if awarded the contract for this improvement agrees:

1. To cooperate at all times with the local officials of the railroad company.
2. To use all reasonable care and diligence in the work in order to avoid accidents, damage or unnecessary delay to, or interference with the trains and other property of the railroad company.
3. To conduct his work in a manner satisfactory to the Chief Engineer of the railroad company or his authorized representative, to perform his work in such manner and at such time as not to unnecessarily interfere with the movements of trains or railroad traffic, and to hold his work at all times open to inspection of railroad company inspectors.
4. To cooperate with a public utility, railroad or other organizations having occasion to do work on or in connection with the improvement.
5. To avoid unnecessary use of railroad property without written permission of the railroad company and to leave railroad roadbed and property in a condition acceptable to the Chief Engineer of the railroad company.
6. To execute a bond conditioned according to Section 5525.16 of the Revised Code of Ohio, in favor of the State of Ohio and further to carry insurance of the following kinds and amounts:

a) **Railroad Protective Liability Insurance.**

In addition to the above, he shall furnish evidence to the highway department that, with respect to the operations he or any of his sub-contractors perform, he has provided for and in behalf of CSX Transportation Inc. in the amount of \$5,000,000 per occurrence and subject to that limit per occurrence, an aggregate limit in the amount of \$10,000,000 for each annual period.

The above railroad protective policy of insurance shall conform to the Railroad Liability requirements prescribed by the Federal Highway Administration in Federal-Aid Policy Guide 23 CFR 646A as amended.

The corporate name and address of the "Named Insured" as listed on the policy shall be as follows:

CSX Transportation, Inc.  
500 Water Street, C-907  
Jacksonville, FL 32202

The description of operations must appear on the Declarations, must match the project description in this agreement and must include the appropriate MP and/or OP number as identified at the top of pg. 1

The job location must appear on the Declarations page and must include the city, state and appropriate highway name/number.

The name and address of the prime contractor must appear on the Declarations.

The name and address of the Department must be identified on the Declarations as the "Involved Governmental Authority or Other Contracting Party."

Endorsements that **must** be included:

- Pollution Exclusion Amendment – CG 28 31 (not required with CG 00 35 01 96 and newer versions)
- Delete Common Policy Conditions – Section E. Premiums

Other endorsements/forms that will be accepted are:

- Broad Form Nuclear Exclusion – Form IL 00 21
- 30-day Advance Notice of Non-renewal or cancellation
- Required State Cancellation Endorsement
- Quick Reference or Index Form CL/IL 240

Endorsements/forms that are **NOT** acceptable are:

- Any Pollution Exclusion Endorsement except CG 28 31
- Any Punitive or Exemplary Damages Exclusion
- Any other endorsement/form not specifically authorized above.
- Any type of deductible policy

The number of trains operating through the improvement is estimated to be:

0 Passenger trains per day @ N/A miles per hour.

40 Freight trains per day @ 30 miles per hour.  
~~45~~

#### Additional Terms

1. Contractor must submit its original insurance policies and two (2) copies and all notices and correspondence regarding the insurance policies to:

Deborah A. Tauro  
Risk Manager, Planning & Analysis  
CSX Corporation  
500 Water Street – C907  
Jacksonville, FL. 32202  
Phone: 904-366-5088  
FAX: 904-245-3506  
Email: Deborah\_Tauro@csx.com

- 2 Neither Agency nor Contractor may begin work on the Project until it has received CSXT's written approval of the required insurance policies.

Certificate must be provided which evidences the following coverages and lists the Certificate Holder as:

CSX Transportation, Inc.  
500 Water Street, C-907  
Jacksonville, FL 32202

Commercial General Liability: as required by the Department's Construction and Material Specification, Section 107.12, and lists CSX Transportation, Inc. as additional insured.

Automobile Liability: Limits of minimum of \$1,000,000 per occurrence, and lists CSX Transportation, Inc. as additional insured.

**(b) General Insurance Requirements**

The insurance hereinbefore specified shall be with an acceptable insurance company authorized to do business in the State of Ohio, and shall be taken out before execution of the Contract by the Director and kept in effect until all work required to be performed under the terms of the contract is satisfactorily completed as evidenced by the formal acceptance by the State. Such policies shall include thirty (30) days canceling notice. The cost of insurance hereinbefore specified in subsection (a) will be a specific bid item.

Notwithstanding the Department's Construction and Material Specification No. 107.12 "Evidence" as above set forth shall consist of furnishing the Director of Transportation three (3) certified copies of the railroad policy.

7. To indemnify, defend, and hold CSXT and its affiliates harmless from and against all claims, demands, payments, suits, actions, judgments, settlements, and damages of every nature, degree, and kind (including direct, indirect, consequential, incidental, and punitive damages), for any injury to or death to any person(s) (including, but not limited to the employees of CSXT, its affiliates, the State or the Contractor), for the loss of or damage to any property whatsoever (including but not limited to property owned by or in the care, custody, or control of CSXT, its affiliates, the State or the Contractor, and environmental damages and any related remediation brought or recovered against CSXT and its affiliates), arising directly or indirectly from the negligence, recklessness or intentional wrongful misconduct of the Contractor, the State, and their respective agents, employees, invitees, contractors, or its contractor's agents, employees or invitees in the performance of work in connection with the project or activities incidental thereto, or from their presence on or about CSXT's property. The foregoing indemnification obligation shall not be limited to the insurance coverage required in paragraph 6 above
8. The Railroad company will assign, at the sole cost and expense of the Department, railroad flaggers or other protective services and devices as necessary to insure the safety and continuity of the work to be performed as a part of this contract. Said services and devices will be provided when necessary, as determined by the railroad company, because of any of the Contractor's operations over, under or adjacent to tracks over which trains are operating. The provision of such protective personnel and devices does not relieve the Contractor from the liability of payment for damage caused by his operations.

Such protection will be required when men or equipment are working within clearances limits of 25 feet of a rail or when work being performed adjacent to operating tracks may present hazards to tracks, train operation, or when equipment does or may infringe upon such limits.

The Contractor will not be permitted to operate any of his own equipment on railroad tracks except under an acceptable arrangement with the railroad company. Such equipment and the operation of such equipment, or equipment rented from the railroad company, shall be arranged for by the Contractor with the railroad and the cost for its use, including protection or railroad traffic, shall be borne by the Contractor.

The Contractor shall notify the following named individual for each railroad company at least 30 days, or as directed by the authorized representative of the Railroad, in advance of starting any work which might require protection:

Mr. Dave Fette, Regional Director R/W Construction  
CSX Transportation, Inc.  
1717 Dixie Highway, Suite 400  
Fort Wright, KY 41011 - 2785  
Telephone: (859) 344- 8137

The Contractor shall notify the railroad at least 5 working days in advance of suspending or ceasing operations that require a flagger.

Railroad protective personnel assigned to the project will be responsible for notifying the Engineer upon arrival at the job site on the first working day that protective services begin and on the last day that he performs such services. This will be required for each separate period that such services are provided. The Engineer will document such notification in the project diary.

The Contractor will be responsible for protective services provided at his request and not utilized due, in the opinion of the Engineer, to a change in the Contractor's construction schedule or if it is determined by the Engineer that the requested services were not necessary. The actual costs for such protective services so assessed to the Contractor will be deducted from the Contract.

The decision of the Director of Transportation shall be final in the event of controversy as to the necessity for any protection services provided and not utilized by the Contractor as described in the preceding paragraph.

9. To pay the railroad or owning company for any changes, requested for his convenience, to railroad property, facilities, wire, fiber optic and/or pipe lines other than shown on the plans for the project.
10. If at any time the contractor desires a temporary crossing of the railroad's tracks, he shall make a request for a temporary crossing from the railroad. If approved, he shall arrange with the railroad company, execute its regular form of private grade-crossing agreement covering the crossing desired, paying all construction, maintenance, removal, protection and other costs.



11. Methods and procedures for performing work on property of **CSX Transportation, Inc.** must be approved by:

David J. Fette, Regional Director Right of Way Construction  
CSX Transportation, Inc.  
1717 Dixie Highway, Suite 400  
Fort Wright, KY 41011-2785  
Phone: (859) 344-8137

End of Special Clauses

IN THE MATTER OF THE REHABILITATION  
OF THE GRADE SEPARATION STRUCTURE  
CARRYING COLUMBIA STREET/S.R.95 OVER  
THE TRACKS OF THE CSX RAILROAD IN  
THE CITY OF MARION, MARION COUNTY,  
OHIO.

AGREEMENT NO.: 14333  
PID: 79938A

**AGREEMENT**

THIS AGREEMENT, made this 1st day of September, 2007 between the State of Ohio, acting by and through the Director of Transportation of the State of Ohio, as First Party, hereinafter referred to as the STATE, and the CSX Transportation, Inc., as Second Party, hereinafter referred to as the COMPANY.

**WITNESSETH:**

**WHEREAS**, Columbia Street/S.R. 95 now passes over the tracks of the COMPANY by means of a grade separation structure (Bridge No. MAR-95-1436) at COMPANY milepost CD-45.20 now deemed inadequate for highway purposes in the City of Marion, Marion County, Ohio and

**WHEREAS**, the STATE proposes to rehabilitate the existing grade separation structure (Bridge No. MAR-95-1436) that separates the grade of tracks of the COMPANY and the highway at the point hereinbefore mentioned. Said structure and the necessary approaches thereto are hereinafter referred to as the PROJECT; and

**WHEREAS**, no existing COMPANY grade crossing will be eliminated as a result of the proposed construction; and

**WHEREAS**, under such conditions, Chapter 5523 of the Revised Code of Ohio and other grade crossing elimination laws of the State of Ohio do not apply to the PROJECT herein considered; and

**WHEREAS**, the Director of Transportation of the State of Ohio is empowered generally by Chapter 5501 of the Revised Code of Ohio to carry forward highway improvements of the type herein contemplated; and

**WHEREAS**, the Federal-Aid Highway Act of 1956, as amended, and Section 5531.03 of the Revised Code of Ohio have become effective, providing funds for the construction costs of projects such as is contemplated herein; and

**WHEREAS**, it is desired by the parties hereto to carry out and accomplish the construction of the PROJECT over the tracks of the COMPANY at the point hereinbefore mentioned and to determine and agree upon the manner of doing said work and the portion of said work to be done by each of said parties respectively, and the proportion of costs and expenses to be paid by each of said parties, and the mode and time of payment therefore.

**NOW THEREFORE**, for and in consideration of the mutual covenants hereinafter stipulated to be kept and performed, it is agreed between the parties as follows:

## SECTION 1

The plans of the STATE for the said improvement are identified by title as follows:

"State of Ohio, Department of Transportation, MAR-4D-0.70, Prospect Street Overpass (MAR-4D-0070), Columbia Street Overpass (MAR-95-1436), City of Marion".

Before this agreement shall be in force and effect, the foregoing plans shall meet the approval of the parties hereto, and upon such approval shall become a part of this agreement by reference.

## SECTION 2

The work to be done under this agreement and shown on the plans described under SECTION 1 of this agreement consists of the rehabilitation of Bridge No. MAR-95-1436 over the tracks of the COMPANY.

Said work will consist of the rehabilitation of the existing overhead highway structure, including removal and replacement of the existing concrete deck, and bridge drainage system repairs

It is understood that temporary minimum construction clearances of 22'-0" vertically from the top of rail and 14'-0" from centerline of track horizontally will be permitted by the COMPANY.

The rehabilitation of the highway and the necessary earth work including grading, draining and paving of the highway, the sodding, seeding and planting of slopes, the construction of highway guard rails, the settlement of claims for property purchased, appropriated or damaged by such construction, and the maintenance of railroad traffic and rearrangement and restoration of railroad facilities made necessary by the work herein contemplated, shall be considered as necessary items to be included as part of this improvement.

## SECTION 3

Responsibility for the several necessary items of work shall be as follows:

- a. The following items shall be let in contract by the STATE after competitive bidding as provided by law, at PROJECT expense, subject to the provisions of this agreement:
  1. Rehabilitation of the highway bridge, including necessary side drives and approaches.
  2. Sodding, seeding and planting of slopes.
  3. Erecting necessary highway guardrails.
- b. The following items shall be done or caused to be done by the COMPANY with its own forces, at PROJECT expense, subject to the provisions of this agreement.
  1. Changes in communication and signal lines, interlocking and signal apparatus
  2. Provision of switch tenders, flagmen, watchmen and other protective services and devices to promote safety and insure continuity of train operations as may be necessary in connection with the work performed by the COMPANY's forces.

#### **SECTION 4**

Any work not specifically provided for in SECTION 3 shall be done by one of the parties hereto as may be mutually agreed upon from time to time during progress of the work, as provided for by the rules and regulations of the Federal Highway Administration as then in effect.

#### **SECTION 5**

All work to be done by the COMPANY under the provisions of this agreement shall be done in accordance with the plans described in SECTION 1, together with such other plans and specifications, detailed and supplementary thereto, as may be mutually agreed upon and as may be necessary to carry out the work fully in accordance with the intent of this agreement and in accordance with good engineering practice. All work to be done by the STATE shall be done in accordance with said plans and under the standard and supplemental specifications of the Department of Transportation in force on the date of the award of the contract, together with such special provisions as may be agreed upon by the parties hereto.

The STATE will require its contractor to use Railroad protective personnel to protect railroad traffic made necessary or occasioned by his operations, as set forth in special provisions to be approved by the parties hereto, which are more specifically set forth in the "Special Clauses in the Proposal" and which are included in this agreement by reference.

The COMPANY agrees to furnish the STATE's contractor at PROJECT expense, and the STATE shall require its contractor to use, such switch tenders, flag men, telegraph operators, pilots, watchmen or other protective services and devices, other than engineering personnel, as in the opinion of the COMPANY are required to promote the safety and insure continuity of railroad traffic during the contractor's operations.

The COMPANY agrees to bill the STATE as a part of its regular force account work the actual cost for such protective services and devices, including the actual rate of pay, plus the amount paid for overtime, insurance, railroad retirement, vacation allowance, holidays, health and welfare, transportation, deadhead and turn around time, accounting and billing.

The STATE agrees to reimburse the COMPANY for said protective services and devices as a part of its regular force account work as set forth in this agreement.

#### **SECTION 6**

The STATE shall have general charge of the engineering work on the PROJECT, but the COMPANY shall provide such engineering services as the STATE may require. Nothing herein shall deny the COMPANY the right to place inspectors on work being done on its property or facilities. Preliminary engineering costs incurred by the COMPANY subsequent to June 27, 2006 may be charged against the PROJECT.

Construction engineering and inspection costs incurred by the COMPANY subsequent to the award of a construction contract by the STATE may be charged against the PROJECT.

## **SECTION 7**

The STATE shall require its contractor at all times to use all reasonable care and diligence and to cooperate with the officials of the COMPANY in order to avoid accidents, damage or unnecessary delay to or interference with trains upon the tracks of the COMPANY.

Any of the COMPANY's equipment, such as work trains, locomotive cranes, cars or other rolling stock used on the work by the STATE's contractor in carrying out his contract shall not be chargeable to the parties hereto, but the STATE shall require the contractor to bear the cost of the rental of such equipment as part of the contract price for the work.

If at any time the STATE's contractor requires a temporary crossing over the COMPANY's tracks, the STATE shall require said contractor to arrange with the COMPANY for such crossing.

## **SECTION 8**

It is understood that the construction costs of the PROJECT herein contemplated are to be financed from funds provided by the STATE and expended in accordance with Federal regulations, that all plans, specifications, estimates of costs, awards of contracts, acceptance of work and procedure in general will at all times conform to all Federal laws, rules, regulations, orders and approvals applying to a Federal-Aid Project, and the STATE shall reimburse the COMPANY for construction costs and for preliminary and construction engineering costs in accordance with Federal-Aid Policy Guide 140(I) of the Federal Highway Administration or any subsequent amendments thereto, in such amounts and forms as are proper and eligible for payment from Federal-Aid highway funds.

The COMPANY shall render its billings to the STATE in accordance with said rules and regulations, and further agrees to provide and furnish such itemized records of and substantiating data for such costs as may be necessary.

In the event that delays or difficulties arise in securing necessary approvals or in securing necessary rights of way or settling damages or damage claims which, in the opinion of the STATE, render it impracticable to utilize funds from the current appropriation for the construction of the PROJECT, the STATE may serve formal notice of cancellation upon the COMPANY and this agreement shall, with the exception of the obligations set forth in the following sentence, become null and void. The STATE shall reimburse the COMPANY for all costs and expenses incurred by it at the request of the STATE, on account of the PROJECT prior to such cancellation, and shall restore the COMPANY's property to the condition existing prior to the initiation of the PROJECT construction.

## **SECTION 9**

The COMPANY may bill the STATE monthly or periodically for its force account when costs exceed \$1,000. Progressive invoices may be submitted for work done during the previous month or period showing the portion of estimated cost completed. A final bill covering actual cost of work and showing all details shall be submitted to the STATE within ninety (90) days after completion of said work. The STATE shall pay all bills that have been approved within sixty (60) days after receipt thereof. The STATE may hold a retainer on all bills not to exceed eight percent (8%) until final payment. Final payment for all amounts due the COMPANY shall be paid by the STATE within sixty (60) days after the final audit has been made and approved.

## **SECTION 10**

The STATE shall acquire or settle all property, property rights and all damages to property affected by the PROJECT. The cost of said property, property rights and damages to property shall be included as a part of the PROJECT expense.

The COMPANY, insofar as it has the legal right so to do, shall permit the STATE and/or its contractor to enter upon lands owned or operated by the COMPANY to construct and occupy said highway facilities across its property with sufficient width to permit construction and maintenance of the PROJECT. The STATE and COMPANY shall enter into good faith negotiations for a price to be consistent with the property interest determined by the Director of Transportation to be needed for the proposed improvement.

However, the price to be paid by the STATE to the COMPANY for said conveyances (representing the fair market value thereof plus damages, if any, to the residue) shall be as mutually agreed upon within nine (9) months from the date of occupancy by the STATE, and if agreement as to price is reached, an additional period of ninety (90) days shall be allowed for settlement, it being agreed however, that if no agreement as to price is reached within the aforesaid nine (9) month period, the STATE will within ninety (90) days thereafter institute an eminent domain proceeding authorized by law for the determination of the value of same. The provisions of this agreement shall survive the institution of such eminent domain proceeding.

The STATE shall furnish the plans and descriptions for any such conveyance. It is understood however, that the foregoing right of entry is a permissive use only, and this Section is not intended to convey or obligate the COMPANY to convey any interest in its land.

In case any action involving said improvement is brought by or against any party hereto, said party shall promptly notify the other parties of the pendency of such action.

## **SECTION 11**

Each party hereto waives, but only against the others, any and all damages or right to claim damages to any of its property growing out of or in any way connected with the improvement herein contemplated, except as otherwise provided for in this agreement.

The STATE shall require of its contractor a bond, conditioned according to Section 5525.16 of the Revised Code of Ohio, in favor of the STATE, and the COMPANY, and shall further require its contractor to take out before work is commenced, and keep in effect until work is completed and accepted, a policy of Railroad Protective Liability Insurance from an insurance company authorized to do business in the State of Ohio, to protect the COMPANY against loss or damage to property and injury to or death of persons, and against all claims, demands, expenses, suits or judgments arising because of, or resulting from the operations of the contractor, his subcontractor, agents or employees, such policy of insurance to provide for a single limit in the amount of \$5,000,000.00 per occurrence and subject to that limit, an aggregate in the amount of \$10,000,000.00 for each annual period for all damages arising out of bodily injuries to or death of one or more persons and out of injury to or destruction of property including such property in the care, custody and control of the COMPANY.

The above insurance provisions are more specifically set forth in the "Special Clauses in the Proposal" which are included in this agreement by reference.

## **SECTION 12**

The work provided for in this agreement shall be commenced by the parties hereto within thirty (30) days from the latter of the following: (1) the date on which this agreement becomes effective, (2) the date on which the COMPANY has been notified by the STATE to proceed or (3) the date on which all funds necessary therefore on the part of the STATE have been properly certified and made available; and it shall be completed within a reasonable time thereafter. Buying and assembling of materials shall be construed as compliance with the foregoing thirty (30) day provision.

All obligations of the STATE provided for in this agreement which require the expenditure of funds by the STATE shall terminate at the end of the present biennium, being June 30, 2009. If construction covered under said agreement is not complete by June 30, 2009, it is the expressed intention of the parties to renew said obligations for one successive biennium period; with the renewal period beginning July 1, 2009 and ending no later than June 30, 2011; until such time as construction covered under said agreement is complete. Said renewal is conditioned upon the STATE determining future appropriations will permit the STATE to renew said -obligations.

All financial obligations of the STATE as provided for in this agreement are subject to the provisions of Section 126.07 of the Ohio Revised Code.

## **SECTION 13**

Upon completion of the PROJECT herein contemplated the STATE shall at its own cost and expense, maintain, repair and renew, or by agreement with others provide for the maintenance, repair and renewal of the bridge structure and surfaces, approach grades and all highway facilities constructed or changed under the terms of this agreement. The COMPANY will permit access onto its property to perform said maintenance and shall at its own cost and expense, maintain, repair and renew all of its facilities constructed or changed under the terms of this agreement.

The COMPANY will not be vested with any rights of ownership of the bridge structure, and will not have a duty to maintain the bridge structure, and will not, if the structure ceases to be a part of the highway system, have a duty to remove the facility from the COMPANY right of way.

The COMPANY shall have the right to attach to the portion of said structure, where it crosses the property of the COMPANY, such signal, electric and communication wires as may be requisite or useful in the operation of the COMPANY; any such attachments which are not a part of the PROJECT shall be made and maintained by the COMPANY at its own expense. No such attachments shall be made without the approval by the STATE of the COMPANY's detailed plans.

## **SECTION 14**

This agreement shall be for the benefit of the parties hereto only and no person, firm or corporation shall acquire any rights whatsoever by virtue of this agreement, except the STATE and COMPANY and the successors and assigns of the COMPANY.

## **SECTION 15**

The Federal Highway Administration's Federal-Aid Policy Guide 646(B) classifies this PROJECT in Classification No. 2 resulting in no ascertainable benefits to the COMPANY. The Parties signatory to this agreement accepts this classification as applicable in this instance. The COMPANY's contribution shall be zero dollars.

## **SECTION 16**

The COMPANY agrees to adhere to the requirements of Ohio Ethics law as provided by Section 102.04 of the Ohio Revised Code. O.R.C. Section 102.04(A) prohibits a state official or employee from receiving compensation, other than from his own agency, for personal services rendered in a case, proceeding application, or other matter before any state agency. O.R.C. Section 102.04(B) prohibits state officials and employees from selling goods or services to state agencies, except by competitive bidding.

It is understood by the parties that non-elected state officials and employees may qualify for an exemption under Section 102.04(D), if (1) the agency with which the official or employee seeks to do business is an agency other than the one with which he serves; and, (2) prior to rendering personal services or selling or agreeing to sell goods or services, the official or employee files an O.R.C. Section 102.04(D) statement with the Ohio Ethics Commission, the agency with which he serves, and the agency with which he seeks to do business. The statement must include a declaration that the non-elected state official or employee disqualifies himself for a period of two years from any participation in his official capacity as a board or commission member in any matter involving any official or employee of the agency with which he seeks to do business.

It is expressly understood and agreed to by the parties that a failure by the COMPANY to file a declaration statement as required under O.R.C. Section 102.04(D), may be considered by the STATE, a breach of material condition of this agreement and the STATE may, if it so elects, void this agreement.

## **SECTION 17**

In carrying out this contract, the COMPANY shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, disability, age, or Vietnam-era veteran status.

The COMPANY will ensure that applicants are hired and that employees are treated during employment without regard to their race, religion, color, sex, national origin, disability, age, or Vietnam-era veteran status.

Such action shall include, but not be limited to, the following: Employment, Upgrading, Demotion, or Transfer; Recruitment or Recruitment Advertising; Layoff or Termination; Rates of Pay or other forms of Compensation; and Selection for Training including Apprenticeship.

## **SECTION 18**

COMPANY agrees to comply with all applicable state and federal laws regarding drug-free workplace. COMPANY shall make a good faith effort to ensure that all COMPANY employees, while working on state property, will not purchase, transfer, use or possess illegal drugs or alcohol or abuse prescription drugs in any way.



IN WITNESS WHEREOF, the parties hereunto have caused this agreement to be duly executed in duplicate as of the day and year first above written.

THE STATE OF OHIO

By Gordon Proctor  
Director of Transportation

CSX TRANSPORTATION, INC.

By Eric G. Peterson

**Eric G. Peterson**  
**ASST. CHIEF ENGINEER**  
**PUBLIC PROJECTS**

MARION COUNTY  
MAR-4D-00.70; PID 79938A  
CSX TRANSPORTATION INC.;  
Milepost CD-45.20  
CSX OP# OH0591

### SPECIAL CLAUSES IN THE PROPOSAL

The bidder, if awarded the contract for this improvement agrees:

1. To cooperate at all times with the local officials of the railroad company.
2. To use all reasonable care and diligence in the work in order to avoid accidents, damage or unnecessary delay to, or interference with the trains and other property of the railroad company.
3. To conduct his work in a manner satisfactory to the Chief Engineer of the railroad company or his authorized representative, to perform his work in such manner and at such time as not to unnecessarily interfere with the movements of trains or railroad traffic, and to hold his work at all times open to inspection of railroad company inspectors.
4. To cooperate with a public utility, railroad or other organizations having occasion to do work on or in connection with the improvement.
5. To avoid unnecessary use of railroad property without written permission of the railroad company and to leave railroad roadbed and property in a condition acceptable to the Chief Engineer of the railroad company.
6. To execute a bond conditioned according to Section 5525.16 of the Revised Code of Ohio, in favor of the State of Ohio and further to carry insurance of the following kinds and amounts:

a) **Railroad Protective Liability Insurance.**

In addition to the above, he shall furnish evidence to the highway department that, with respect to the operations he or any of his sub-contractors perform, he has provided for and in behalf of CSX Transportation Inc. in the amount of \$5,000,000 per occurrence and subject to that limit per occurrence, an aggregate limit in the amount of \$10,000,000 for each annual period.

The above railroad protective policy of insurance shall conform to the Railroad Liability requirements prescribed by the Federal Highway Administration in Federal-Aid Policy Guide 23 CFR 646A as amended.

The corporate name and address of the "Named Insured" as listed on the policy shall be as follows:

CSX Transportation, Inc.  
500 Water Street, C-907  
Jacksonville, FL 32202

The description of operations must appear on the Declarations, must match the project description in this agreement and must include the appropriate MP and/or OP number as identified at the top of pg. 1

The job location must appear on the Declarations page and must include the city, state and appropriate highway name/number.

The name and address of the prime contractor must appear on the Declarations.

The name and address of the Department must be identified on the Declarations as the "Involved Governmental Authority or Other Contracting Party."

Endorsements that **must** be included:

- Pollution Exclusion Amendment -- CG 28 31 (not required with CG 00 35 01 96 and newer versions)
- Delete Common Policy Conditions -- Section E. Premiums

Other endorsements/forms that will be accepted are:

- Broad Form Nuclear Exclusion -- Form IL 00 21
- 30-day Advance Notice of Non-renewal or cancellation
- Required State Cancellation Endorsement
- Quick Reference or Index Form CL/IL 240

**Endorsements/forms that are NOT acceptable are:**

- Any Pollution Exclusion Endorsement except CG 28 31
- Any Punitive or Exemplary Damages Exclusion
- Any other endorsement/form not specifically authorized above.
- Any type of deductible policy

**The number of trains operating through the improvement is estimated to be:**

0 Passenger trains per day @ N/A miles per hour.

40 30  
45 Freight trains per day @ 50 miles per hour.

#### Additional Terms

1. Contractor must submit its original insurance policies and two (2) copies and all notices and correspondence regarding the insurance policies to:

Deborah A. Tauro  
Risk Manager, Planning & Analysis  
CSX Corporation  
500 Water Street -- C907  
Jacksonville, FL. 32202  
Phone: 904-366-5088  
FAX: 904-245-3506  
Email: Deborah\_Tauro@csx.com

- 2 Neither Agency nor Contractor may begin work on the Project until it has received CSXT's written approval of the required insurance policies.

Certificate must be provided which evidences the following coverages and lists the Certificate Holder as:

CSX Transportation, Inc.  
500 Water Street, C-907  
Jacksonville, FL 32202

Commercial General Liability: as required by the Department's Construction and Material Specification, Section 107.12, and lists CSX Transportation, Inc. as additional insured.

Automobile Liability: Limits of minimum of \$1,000,000 per occurrence, and lists CSX Transportation, Inc. as additional insured.

**(b) General Insurance Requirements**

The insurance hereinbefore specified shall be with an acceptable insurance company authorized to do business in the State of Ohio, and shall be taken out before execution of the Contract by the Director and kept in effect until all work required to be performed under the terms of the contract is satisfactorily completed as evidenced by the formal acceptance by the State. Such policies shall include thirty (30) days canceling notice. The cost of insurance hereinbefore specified in subsection (a) will be a specific bid item.

Notwithstanding the Department's Construction and Material Specification No. 107.12 "Evidence" as above set forth shall consist of furnishing the Director of Transportation three (3) certified copies of the railroad policy.

7. To indemnify, defend, and hold CSXT and its affiliates harmless from and against all claims, demands, payments, suits, actions, judgments, settlements, and damages of every nature, degree, and kind (including direct, indirect, consequential, incidental, and punitive damages), for any injury to or death to any person(s) (including, but not limited to the employees of CSXT, its affiliates, the State or the Contractor), for the loss of or damage to any property whatsoever (including but not limited to property owned by or in the care, custody, or control of CSXT, its affiliates, the State or the Contractor, and environmental damages and any related remediation brought or recovered against CSXT and its affiliates), arising directly or indirectly from the negligence, recklessness or intentional wrongful misconduct of the Contractor, the State, and their respective agents, employees, invitees, contractors, or its contractor's agents, employees or invitees in the performance of work in connection with the project or activities incidental thereto, or from their presence on or about CSXT's property. The foregoing indemnification obligation shall not be limited to the insurance coverage required in paragraph 6 above
8. The Railroad company will assign, at the sole cost and expense of the Department, railroad flaggers or other protective services and devices as necessary to insure the safety and continuity of the work to be performed as a part of this contract. Said services and devices will be provided when necessary, as determined by the railroad company, because of any of the Contractor's operations over, under or adjacent to tracks over which trains are operating. The provision of such protective personnel and devices does not relieve the Contractor from the liability of payment for damage caused by his operations.

Such protection will be required when men or equipment are working within clearances limits of 25 feet of a rail or when work being performed adjacent to operating tracks may present hazards to tracks, train operation, or when equipment does or may infringe upon such limits.

The Contractor will not be permitted to operate any of his own equipment on railroad tracks except under an acceptable arrangement with the railroad company. Such equipment and the operation of such equipment, or equipment rented from the railroad company, shall be arranged for by the Contractor with the railroad and the cost for its use, including protection or railroad traffic, shall be borne by the Contractor.

The Contractor shall notify the following named individual for each railroad company at least 30 days, or as directed by the authorized representative of the Railroad, in advance of starting any work which might require protection:

Mr. Dave Fette, Regional Director R/W Construction  
CSX Transportation, Inc.  
1717 Dixie Highway, Suite 400  
Fort Wright, KY 41011 - 2785  
Telephone: (859) 344- 8137

The Contractor shall notify the railroad at least 5 working days in advance of suspending or ceasing operations that require a flagger.

Railroad protective personnel assigned to the project will be responsible for notifying the Engineer upon arrival at the job site on the first working day that protective services begin and on the last day that he performs such services. This will be required for each separate period that such services are provided. The Engineer will document such notification in the project diary.

The Contractor will be responsible for protective services provided at his request and not utilized due, in the opinion of the Engineer, to a change in the Contractor's construction schedule or if it is determined by the Engineer that the requested services were not necessary. The actual costs for such protective services so assessed to the Contractor will be deducted from the Contract.

The decision of the Director of Transportation shall be final in the event of controversy as to the necessity for any protection services provided and not utilized by the Contractor as described in the preceding paragraph.

9. To pay the railroad or owning company for any changes, requested for his convenience, to railroad property, facilities, wire, fiber optic and/or pipe lines other than shown on the plans for the project.
10. If at any time the contractor desires a temporary crossing of the railroad's tracks, he shall make a request for a temporary crossing from the railroad. If approved, he shall arrange with the railroad company, execute its regular form of private grade crossing agreement covering the crossing desired, paying all construction, maintenance, removal, protection and other costs.

11. Methods and procedures for performing work on property of **CSX Transportation, Inc.** must be approved by:

David J. Fette, Regional Director Right of Way Construction  
CSX Transportation, Inc.  
1717 Dixie Highway, Suite 400  
Fort Wright, KY 41011-2785  
Phone: (859) 344-8137

End of Special Clauses

**CSX TRANSPORTATION, INC.  
FORCE ACCOUNT ESTIMATE**

ACCT. CODE : 709 - OH0591

**ESTIMATE SUBJECT TO REVISION AFTER:** 02/19/2008      **DOT NO.:** 228 719H  
**CITY:** Marion      **COUNTY:** Marion      **STATE:** OH  
**DESCRIPTION:** Proposed Bridge Rehabilitation - Columbia Street Bridge over CSXT.

**DIVISION:** Appalachian      **SUB-DIV:** Columbus      **MILE POST:** CD - 45.20  
**AGENCY PROJECT NUMBER:** MAR-95-14.36 PID: 79938

**PRELIMINARY ENGINEERING:**

200 Labor (Non Contract)		\$	1,350
200 Additive	42.41%	\$	573
230 Expenses		\$	235
212 Contracted & Administrative Engineering Services		\$	8,000
<b>Subtotal</b>		\$	<u>10,158</u>

**CONSTRUCTION ENGINEERING/INSPECTION:**

200 Labor (Non Contract)		\$	1,350
200 Additive	42.41%	\$	573
230 Expenses		\$	235
212 Contracted & Administrative Engineering Services		\$	12,500
<b>Subtotal</b>		\$	<u>14,658</u>

**FLAGGING SERVICE: (Contract Labor)**

070 Labor (Conductor-Flagman)		\$	-
050 Labor (Foreman/Inspector)		\$	11,760
070 Additive	76.28% (Transportation Department)	\$	-
050 Additive	77.52% (Engineering Department)	\$	9,116
230 Per Diem (Engineering Department)		\$	3,000
230 Expenses		\$	1,800
<b>Subtotal</b>		\$	<u>25,676</u>

**SIGNAL & COMMUNICATIONS WORK:** (Details Attached)      \$ 75,462

**TRACK WORK:** (Details Attached)      \$ -

**ACCOUNTING & BILLING:**

040 Labor		\$	1,600
040 Additive	65.54%	\$	1,049
<b>Subtotal</b>		\$	<u>2,649</u>

**PROJECT SUBTOTAL**      \$ 128,602

900 **CONTINGENCIES:**      10.00%      \$ 12,860

**GRAND TOTAL \*\*\*\*\***      \$ 141,462

**DIVISION OF COST:**

Agency	100.00%	\$	141,462
Railroad		\$	-
<b>TOTAL *****</b>		\$	<u>141,462</u>

**NOTE: Estimate is based on FULL CROSSING CLOSURE during work by Railroad Forces.**

This estimate has been prepared based on site conditions, anticipated work duration periods, material prices, labor rates, manpower and resource availability, and other factors known as of the date prepared. The actual cost for CSXT work may differ based upon the agency's requirements, their contractor's work procedures, and/or other conditions that become apparent once construction commences or during the progress of the work

Office of Assistant Chief Engineer Public Projects--Jacksonville, Florida

Estimate prepared by: URS Corporation

Approved by: Mel R. McNichols

CSXT Public Projects Group

DATE: 08/23/2007

REVISED:

DATE: 08/28/2007

**CSX TRANSPORTATION, INC.  
FORCE ACCOUNT ESTIMATE**

ACCT. CODE : 709 - OH0591  
Pub EB - OH EB3 (OH)

**ESTIMATE SUBJECT TO REVISION AFTER:** 2/19/2008 **DOT NO.:** 228 719H  
**CITY:** Marion **COUNTY:** Marion **STATE:** OH

**DESCRIPTION:** Proposed Bridge Rehabilitation - Columbia Street Bridge over CSXT.

**DIVISION:** Appalachian **SUB-DIV:** Columbus **MILEPOST:** CD - 45.20  
**DRAWING NO.:** Stage 3 **DRAWING DATE:** 8/7/07 Letter **REGION:** Central  
**AGENCY PROJECT NUMBER:** MAR-95-14.36 PID: 79938

**PRELIMINARY ENGINEERING:**

200	Labor (Non Contract)		5	Days @	\$ 270.00	\$	1,350
200	Additive	42.41%				\$	573
230	Expenses					\$	235
212	Contracted & Administrative Engineering Services					\$	8,000
	<b>Subtotal</b>					\$	<u>10,158</u>

**CONSTRUCTION ENGINEERING/INSPECTION:**

200	Labor (Non Contract)		5	Days @	\$ 270.00	\$	1,350
200	Additive	42.41%				\$	573
230	Expenses					\$	235
212	Contracted & Administrative Engineering Services					\$	12,500
	<b>Subtotal</b>					\$	<u>14,658</u>

**FLAGGING SERVICE: (Contract Labor)**

70	Labor (Conductor-Flagman)		0	Days @	\$ 290.00	\$	-
50	Labor (Foreman/Inspector)		40	Days @	\$ 294.00	\$	11,760
70	Additive	76.28% (Transportation Department)				\$	-
50	Additive	77.52% (Engineering Department)				\$	9,116
230	Expenses	(Per Diem Engineering Department)	40	Days @	\$ 75.00	\$	3,000
230	Expenses	(Mileage Operations Department)	40	Days @	\$ 45.00	\$	1,800
	<b>Subtotal</b>					\$	<u>25,676</u>

**COMMUNICATIONS WORK:**

	Temporary (Details Attached)					\$	-
	Permanent (Details Attached)					\$	-
	<b>Subtotal</b>					\$	<u>-</u>



**CSX TRANSPORTATION, INC.  
FORCE ACCOUNT ESTIMATE**

ACCT. CODE : 709 - OH0591  
Pub EB - OH EB3 (OH)

**TRACK: LABOR**

50	Traffic Control		0	MAN-HRS	\$ 21.00	\$	-
50	Remove Existing Crossing		0	MAN-HRS	\$ 21.00	\$	-
50	Renew Cross Ties		0	MAN-HRS	\$ 21.00	\$	-
50	Renew Rail		0	MAN-HRS	\$ 21.00	\$	-
50	Install OTM		0	MAN-HRS	\$ 21.00	\$	-
50	Install Field Welds		0	MAN-HRS	\$ 21.00	\$	-
50	Install Geo-Textile Fabric		0	MAN-HRS	\$ 21.00	\$	-
50	Install Sub-Drains		0	MAN-HRS	\$ 21.00	\$	-
50	Install Ballast		0	MAN-HRS	\$ 21.00	\$	-
50	Line and Surface		0	MAN-HRS	\$ 21.00	\$	-
50	Install Crossing Materials		0	MAN-HRS	\$ 21.00	\$	-
50	Install Bituminous Pavement		0	MAN-HRS	\$ 21.00	\$	-
50	Improve Drainage		0	MAN-HRS	\$ 21.00	\$	-
50	Remove Ballast & Debris from RR Right-of-Way		0	MAN-HRS	\$ 21.00	\$	-
50	Clean-Up		0	MAN-HRS	\$ 21.00	\$	-
50	Additive	77.52%				\$	-
230	Per Diem		0	MAN-DAY	\$ 90.00	\$	-
	<b>Subtotal</b>					\$	-

**TRACK: MATERIAL**

220	Cross Ties, Main Line		0	EA	\$ 31.00	\$	-
220	Rail, 136RE, New		0	LF	\$ 17.00	\$	-
220	Misc. OTM		1	LOT	\$ -	\$	-
210	Geo-Textile Fabric		0	RL	\$ 250.00	\$	-
210	Sub-Drains		0	LF	\$ 6.00	\$	-
220	Ballast		0	NT	\$ 5.75	\$	-
220	Field Welds		0	EA	\$ 100.00	\$	-
			0		\$ -	\$	-
			0		\$ -	\$	-
210	Concrete Full Width		0	TF	\$ 225.00	\$	-
210	Concrete/Rubber Xing (CSX)		0	TF	\$ 135.00	\$	-
210	Rubber Crossing, Full Depth		0	TF	\$ 280.00	\$	-
210	Timber/Asphalt Crossing (CSX Standard)		0	TF	\$ 42.00	\$	-
220	Crossties, 10' Length		0	EA	\$ 39.00	\$	-
210	Bituminous Material		0	NT	\$ 80.00	\$	-
210	Sales Tax on Material	0.00%				\$	-
210	Material Handling	5.00%				\$	-
	<b>Subtotal</b>					\$	-

**CONTRACT:**

215	Asphalt Paving (In Place)		0	NT	\$ 120.00	\$	-
241	Disposal of Waste Materials		0	TF	\$ 10.00	\$	-
215	Maintenance of Traffic		0	DAY	\$ 300.00	\$	-
	<b>Subtotal</b>					\$	-

**CSX TRANSPORTATION, INC.  
FORCE ACCOUNT ESTIMATE**

ACCT. CODE : 709 - OH0591  
Pub EB - OH EB3 (OH)

241	<b><u>EQUIPMENT RENTAL:</u></b>					
	Subtotal					\$ -
50	<b><u>WORK TRAIN:</u></b>	0	DAY	\$ 2,100.00		\$ -
	Subtotal					\$ -
	<b><u>SALVAGE:</u></b>					
228	Rail	0	NT	\$ 65.00		\$ -
228	OTM	0	NT	\$ 75.00		\$ -
	Subtotal					\$ -
	<b><u>SIGNAL WORK:</u></b>					
210	Material - Field & Consumables					\$ 18,919
210	Material - Sales Tax					\$ -
220	Material - Shop					\$ -
60	Construction Labor					\$ 13,330
65	Shop Labor					\$ -
230	Per Diem					\$ 5,775
200	RR Engineering, Preliminary					\$ 3,320
200	RR Engineering, Construction					\$ 1,999
60	Additives to Construction Labor					\$ 11,074
65	Additives to Shop Labor					\$ -
200	Additives to Engineering					\$ 2,091
241	Equipment Expense					\$ 7,150
241	Waste Management					\$ 132
212	Contract Engineering					\$ 7,471
211	Freight					\$ 1,200
216	AC Power Service					\$ -
228	Salvage					\$ 1
900	Poleline Removal					\$ 3,000
	Subtotal					\$ 75,462
	<b><u>ACCOUNTING &amp; BILLING:</u></b>					
40	Labor	8	Days @	\$ 200.00		\$ 1,600
40	Additive	65.54%				\$ 1,049
	Subtotal					\$ 2,649
	<b><u>PROJECT SUBTOTAL:</u></b>					\$ 128,602
900	<b><u>CONTINGENCIES:</u></b>	10.00%				\$ 12,860
	<b>GRAND TOTAL</b>					\$ 141,462

CSX TRANSPORTATION, INC.  
FORCE ACCOUNT ESTIMATE

ACCT. CODE : 709 - OH0591  
Pub EB - OH EB3 (OH)

DIVISION OF COST:

Agency	<u>100.00%</u>	\$	141,462
Railroad	<u>0.00%</u>	\$	-
<b>TOTAL</b>	*****	\$	<b>141,462</b>

**NOTE: Estimate is based on FULL CROSSING CLOSURE during work by Railroad Forces.**

This estimate has been prepared based on site conditions, anticipated work duration periods, material prices, labor rates, manpower and resource availability, and other factors known as of the date prepared. The actual cost for CSXT work may differ based upon the agency's requirements, their contractor's work procedures, and/or other conditions that become apparent once construction commences or during the progress of the work

Office of Assistant Chief Engineer Public Projects--Jacksonville, Florida

Estimate prepared by: URS Corporation

Approved by: Mel R. McNichols

CSXT Public Projects Group

DATE: 08/23/2007

REVISED:

DATE: 08/28/2007

ACCT. CODE : 709 - OH0591  
Pub EB - OH EB3 (OH)

ESTIMATE SUBJECT TO REVISION AFTER: 02/19/2008 DOT NO.: 228 719H  
CITY: Marion COUNTY: Marion STATE: OH  
DESCRIPTION: Proposed Bridge Rehabilitation - Columbia Street Bridge over CSXT.

DIVISION: Appalachian SUB-DIV: Columbus MILEPOST: CD - 45.20  
DRAWING NO.: Stage 3 DRAWING DATE: 8/7/07 Letter REGION: Central  
AGENCY PROJECT NUMBER: MAR-95-14.36 PID: 79938

**SIGNAL WORK:**

210 Material - Field & Consumables	\$	18,919
210 Material - Sales Tax	\$	-
220 Material - Shop	\$	-
60 Construction Labor	\$	13,330
65 Shop Labor	\$	-
230 Per Diem	\$	5,775
200 RR Engineering, Preliminary	\$	3,320
200 RR Engineering, Construction	\$	1,999
60 Additives to Construction Labor	\$	11,074
65 Additives to Shop Labor	\$	-
200 Additives to Engineering	\$	2,091
241 Equipment Expense	\$	7,150
241 Waste Management	\$	132
212 Contract Engineering	\$	7,471
211 Freight	\$	1,200
216 AC Power Service	\$	-
228 Salvage	\$	1
900 Poleline Removal	\$	3,000
<b>Subtotal</b>	<b>\$</b>	<b>75,462</b>

ESTIMATE SUBJECT TO REVISION AFTER: 02/19/2008 DOT NO.: 228 719H  
 CITY: Marion COUNTY: Marion STATE: OH  
 DESCRIPTION: Proposed Bridge Rehabilitation - Columbia Street Bridge over CSXT.  
 DIVISION: Appalachian SUB-DIV: Columbus MILEPOST: CD - 45.20  
 DRAWING NO.: Stage 3 DRAWING DATE: 8/7/07 Letter REGION: Central  
 AGENCY PROJECT NUMBER: MAR-95-14.36 PID: 79938

Amount		
Task	Task Desc	Total
40	Labor General Office	\$2,649
50	Labor Roadway	\$20,876
60	Labor Signal	\$24,404
65	Labor Signal1	
70	Labor Transportation	
200	Labor NonContract	\$11,255
210	Invoice Material	
	Material - Field & Consu	\$18,919
211	Invoice Freight	\$1,200
212	Invoice Contract Eng	\$27,971
215	Invoice Misc	
216	Invoice Utilities	
220	Material New	
	Material - Shop	
228	Scrap Credit	\$1
230	ExpenseRpts	\$11,045
241	Invoice Rental	\$7,282
900	Other	\$3,000
900	Contingencies	\$12,860
	Material New	
Grand Total		\$141,462

MARION, MARION COUNTY, OHIO  
MAR-95-14.36; PID 79938  
CSX TRANSPORTATION, INC.  
MILEPOST CD-45.20  
CSXT OP# OH0591

**SCHEDULE I**

**CONTRACTOR'S ACCEPTANCE**

To and for the benefit of CSX Transportation, Inc. ("CSXT") and to induce CSXT to permit Contractor on or about CSXT's property for the purposes of performing work in accordance with the Agreement dated \_\_\_\_\_, 200\_\_, between the Ohio Department of Transportation and CSXT, Contractor hereby agrees to abide by and perform all applicable terms of the Agreement, including the Special Clauses In The Proposal.

Contractor: \_\_\_\_\_

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

\\COR\130459.7



# OHIO DEPARTMENT OF TRANSPORTATION

DISTRICT 6 • 400 EAST WILLIAM STREET • DELAWARE, OHIO • 43015 • 800.372.7714

April 25, 2007

Dennis Decker  
Division Administrator  
Federal Highway Administration  
200 North High Street  
Columbus, Ohio 43215

## **CERTIFICATION OF RIGHTS OF WAY**

Re: Project: MAR-4D-0.70/MAR-95-14.36  
Federal Project No. FANE051291  
PID No. 79938  
SJV. 46601(0)  
(Office of Real Estate - District Six)

Dear Mr. Decker,

Pursuant to 23 CFR 635.309, the status of rights of way for subject project is certified as follows:

- A. All necessary construction work for this project will be performed within existing rights of way.
- B. No utilities are involved on this project.
- C. There will be no displacement of persons on this project.
- D. There are no encroachments on this project.

Respectfully,

Herbert W. Ligocki

John Maynard,  
Real Estate Administrator

JM:tb

C: Proj. Status Sec., Dist. Six Proj. File, Utility File



# OHIO DEPARTMENT OF TRANSPORTATION

DISTRICT 6 • 400 EAST WILLIAM STREET • DELAWARE, OHIO • 43015 • 800.372.7714

April 25, 2007

Dennis Decker  
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Federal Highway Administration  
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Herbert W. Ligocki

*John Maynard Bytko*

John Maynard,  
Real Estate Administrator

JM:tb

C: Proj. Status Sec., Dist. Six Proj. File, Utility File



Ohio Department of Transportation

County MAR Route 4D Section 0.70 PID 79938

ENVIRONMENTAL CONSULTATION FORM

Date of Plan Submission to Office of Project Coordination: 02/11/08

Funding Source(s): [x] federal [x] state [ ] local [ ] private

Type of Environmental Document/Approval:

[x] Exempt [ ] CE-1 [ ] CE-2 [ ] CE-3 [ ] CE-4 [ ] EA/FONSI [ ] EIS/ROD

Date of Environmental Approval: 04/04/07

Environmental Reevaluation Screening:

Have changes taken place, such as development, controversy, regulatory changes, etc. that would cause impacts not previously included in the approved NEPA document? Yes No [x] No
If "Yes", what date was the NEPA Reevaluation approved?

If the type of approval was an EIS-ROD:
Most recent date of an FHWA authorization for the project (final design, r/w acquisition):
Has there been more than three years between federal approvals? Yes No [x] No
If "Yes", what date was the NEPA Reevaluation approved?

Has the funding been switched from 100% state and/or local, to now include federal participation? Yes No [x] No
If so, does the current environmental document and approval cover all of the applicable federal regulatory requirements? Yes No

Commitments:

Were any commitments made during the project development process? [x] Yes No
If "Yes", the commitments and their disposition are listed beginning on Page 3.

**Ohio Department of Transportation**

County MAR Route 4D Section 0.70 PID 79938

Permits:							
Type of Permit	Required for this Project?		Obtained?		Approval by, and date	Incorporated Into the Construction Contract?	
	Yes	No	Yes	No		Yes	No
404 Nationwide		✓			No involvement with jurisdictional waters.		
404 individual		✓			No involvement with jurisdictional waters.		
401 WQC		✓			No involvement with jurisdictional waters.		
Isolated Wetlands		✓			No involvement with isolated wetlands.		
NPDES		✓			No EDA calculated because this is a maintenance job.		
Flood Plain		✓			NO floodplains present.		
Section 9		✓			No involvement with a navigable waterway.		
Section 10		✓			No involvement with a navigable waterway.		
Scenic River Approval		✓			Not within a designated scenic river corridor.		
OAC 3745-27-13		✓			The project does not involve any work on land where a hazardous or solid waste facility is known to have been operated.		
OAC 3745-20-03		✓			The project does not involve demolition of a bridge.		

After reviewing the current status of this project, the Department considers that the NEPA document remains valid. In our review, we have confirmed that there have been no changes to the proposed action, including its scope or location, which would result in environmental impacts not considered in the NEPA document or reevaluation, and that there is no new information or circumstances relevant to environmental concerns, and bearing on the proposed action or its impacts, which would result in substantial environmental impact not considered in the NEPA document or the reevaluation.

Prepared by: Brian Tatman

Date: February 05, 2008

Approved by: *Jamie Hartman*

Date: 2/5/08

c: File - Project File – Reading File

Ohio Department of Transportation

County MAR Route 4D Section 0.70 PID 79938

**Commitments Made, and their Disposition**

**Commitment:** 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 asphalt 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.

**Disposition:** A plan note on page 5/43 complies with this commitment.

**Commitment:** Unavoidable cutting of any trees which may provide suitable roosting or brood-rearing habitat for the species (i.e. living or standing dead trees or snags with exfoliating, peeling or loose bark, split trunks and/or branches, or cavities) will be performed only before April 15 or after September 15 when the species would not be using such habitat.

**Disposition:** A plan note on page 5/43 complies with this commitment.

**Commitment:** Hours of construction equipment operation will conform to any pertinent local ordinances that may exist.

**Disposition:** A plan note on page 5/43 complies with this commitment.

**Commitment:** A flyer notifying the public of the project will be mailed out prior to construction.

**Disposition:** A plan note on page 5/43 complies with this commitment.

Ohio Department of Transportation

County MAR Route 4D Section 0.70 PID 79938

**ENVIRONMENTAL CONSULTATION FORM**

Date of Plan Submission to Office of Project Coordination: 02/11/08

Funding Source(s):  federal  state  local  private

Type of Environmental Document/Approval:

Exempt  CE-1  CE-2  CE-3  CE-4  EA/FONSI  EIS/ROD

Date of Environmental Approval: 04/04/07

**Environmental Reevaluation Screening:**

Have changes taken place, such as development, controversy, regulatory changes, etc. that would cause impacts not previously included in the approved NEPA document?        Yes      No  
If "Yes", what date was the NEPA Reevaluation approved? \_\_\_\_\_

If the type of approval was an EIS-ROD:  
Most recent date of an FHWA authorization for the project (final design, r/w acquisition): \_\_\_\_\_  
Has there been more than three years between federal approvals?        Yes      No  
If "Yes", what date was the NEPA Reevaluation approved? \_\_\_\_\_

Has the funding been switched from 100% state and/or local, to now include federal participation?        Yes      No  
If so, does the current environmental document and approval cover all of the applicable federal regulatory requirements?        Yes        No

**Commitments:**

Were any commitments made during the project development process?      Yes        No  
If "Yes", the commitments and their disposition are listed beginning on Page 3.

**Ohio Department of Transportation**

County MAR Route 4D Section 0.70 PID 79938

Permits:							
Type of Permit	Required for this Project?		Obtained?		Approval by, and date	Incorporated Into the Construction Contract?	
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Prepared by: Brian Tatman

Date: February 05, 2008

Approved by: *James Martner*

Date: 2/5/08

c: File - Project File – Reading File

**Ohio Department of Transportation**

**County**   MAR   **Route**   4D   **Section**   0.70   **PID**   79938  

<b>Commitments Made, and their Disposition</b>
--

<p><b>Commitment:</b> 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 asphalt 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.</p>
--

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--

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---

<p><b>Disposition:</b> A plan note on page 5/43 complies with this commitment.</p>
--

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--

<p><b>Disposition:</b> A plan note on page 5/43 complies with this commitment.</p>
--

<p><b>Commitment:</b> A flyer notifying the public of the project will be mailed out prior to construction.</p>
---

<p><b>Disposition:</b> A plan note on page 5/43 complies with this commitment.</p>
--

## Asset Management Information

PID #: 79938 District: 6 Cty/Rt/Sec: MAR-4D-0.70

Project #: \_\_\_\_\_ Award Date: 5/15/2008

	C1	C2	C3	C4	C5	C6	C7
		Capital	Maintenance		Addition	Replacement	
	%	%	%	Total	%	%	Total
R1 <b>Bridge</b>	100	0	100	100	0	0	0
R2 <b>Pavement</b>	0						
R3 <b>Other</b>	0	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
<b>Total</b>	100	<b>"Other" Description:</b> _____					

<b>Priority</b>	<b>General</b>	<b>Total</b>
%	%	%

If Pavement \_\_\_\_\_

Date: 1/17/08 Prepared By: Brenda Moore

Notes:

**Form Explanation:**

In column C1, indicate the % breakdown of the project between Bridge, Paving and Other

The %'s in column C1 for Bridge, Paving and Other must total 100%

In columns C2 and C3 indicate the % breakdown of the % in C1

Column C2 plus column C3 for row R1 must total 100%

Column C2 plus column C3 for row R2 must total 100%

Capital and maintenance % are not applicable for row R3 "Other"

Fill in %'s in columns C5 and C6 ONLY if there is a capital % in column C2

Column C5 plus column C6 for row R1 must total 100%

Column C5 plus column C6 for row R2 must total 100%

Use only whole numbers



September 7, 2007

Rich Behrendt  
Program Mgr./State Rail Coordinator  
Ohio Department of Transportation  
1980 West Broad Street  
Columbus, Ohio 43223

**SUBJECT: Marion, Marion County, Ohio**  
**Proposed Bridge Rehabilitation – Columbia Street over CSXT**  
**Agency Reference: MAR-4D-0.70**  
**MAR-95-1436**  
**PID No. 79938**  
**AAR/DOT No.: 228 719H**  
**CSXT Reference: Milepost CD-45.20 / Columbus Subdivision**  
**Appalachian Division / Central Region**  
**OP No.: OH0591**

Dear Mr. Behrendt:

Enclosed please find one fully executed Agreement between the Ohio Department of Transportation (ODOT) and CSX Transportation, Inc. (CSXT) relative the subject project. CSXT has retained one fully executed Agreement for its records.

**CSXT AWAITS ODOT'S FURTHER ADVICE AND AUTHORITY FOR CSXT TO PROCEED WITH ITS FORCE ACCOUNT WORK ASSOCIATED WITH THE SUBJECT PROJECT.** Such notification should be directed to this office.

Sincerely,

Larry J. Shaw, P.E.  
Program Manager  
URS Corporation

Enclosure

Copy: Bruce Birch – ODOT D-6

*PM - Mark's  
Production file*

RECEIVED

SEP 10 2007

Production Dept.

URS Corporation  
One Indiana Square, Suite 2100  
Indianapolis, IN 46204  
Tel: 317-532-5481  
Fax: 317-532-5499  
Larry\_Shaw@urscorp.com

Providing Engineering Services for





IN THE MATTER OF THE REHABILITATION  
OF THE GRADE SEPARATION STRUCTURE  
CARRYING COLUMBIA STREET/S.R.95 OVER  
THE TRACKS OF THE CSX RAILROAD IN  
THE CITY OF MARION, MARION COUNTY,  
OHIO.

AGREEMENT NO.: 14333  
PID: 79938A

**AGREEMENT**

THIS AGREEMENT, made this 1st day of September, 2007 between the State of Ohio, acting by and through the Director of Transportation of the State of Ohio, as First Party, hereinafter referred to as the STATE, and the CSX Transportation, Inc., as Second Party, hereinafter referred to as the COMPANY.

**WITNESSETH:**

**WHEREAS**, Columbia Street/S.R. 95 now passes over the tracks of the COMPANY by means of a grade separation structure (Bridge No. MAR-95-1436) at COMPANY milepost CD-45.20 now deemed inadequate for highway purposes in the City of Marion, Marion County, Ohio and

**WHEREAS**, the STATE proposes to rehabilitate the existing grade separation structure (Bridge No. MAR-95-1436) that separates the grade of tracks of the COMPANY and the highway at the point hereinbefore mentioned. Said structure and the necessary approaches thereto are hereinafter referred to as the PROJECT; and

**WHEREAS**, no existing COMPANY grade crossing will be eliminated as a result of the proposed construction; and

**WHEREAS**, under such conditions, Chapter 5523 of the Revised Code of Ohio and other grade crossing elimination laws of the State of Ohio do not apply to the PROJECT herein considered; and

**WHEREAS**, the Director of Transportation of the State of Ohio is empowered generally by Chapter 5501 of the Revised Code of Ohio to carry forward highway improvements of the type herein contemplated; and

**WHEREAS**, the Federal-Aid Highway Act of 1956, as amended, and Section 5531.03 of the Revised Code of Ohio have become effective, providing funds for the construction costs of projects such as is contemplated herein; and

**WHEREAS**, it is desired by the parties hereto to carry out and accomplish the construction of the PROJECT over the tracks of the COMPANY at the point hereinbefore mentioned and to determine and agree upon the manner of doing said work and the portion of said work to be done by each of said parties respectively, and the proportion of costs and expenses to be paid by each of said parties, and the mode and time of payment therefore.

**NOW THEREFORE**, for and in consideration of the mutual covenants hereinafter stipulated to be kept and performed, it is agreed between the parties as follows:

## SECTION 1

The plans of the STATE for the said improvement are identified by title as follows:

"State of Ohio, Department of Transportation, MAR-4D-0.70, Prospect Street Overpass (MAR-4D-0070), Columbia Street Overpass (MAR-95-1436), City of Marion".

Before this agreement shall be in force and effect, the foregoing plans shall meet the approval of the parties hereto, and upon such approval shall become a part of this agreement by reference.

## SECTION 2

The work to be done under this agreement and shown on the plans described under SECTION 1 of this agreement consists of the rehabilitation of Bridge No. MAR-95-1436 over the tracks of the COMPANY.

Said work will consist of the rehabilitation of the existing overhead highway structure, including removal and replacement of the existing concrete deck, and bridge drainage system repairs

It is understood that temporary minimum construction clearances of 22'-0" vertically from the top of rail and 14'-0" from centerline of track horizontally will be permitted by the COMPANY.

The rehabilitation of the highway and the necessary earth work including grading, draining and paving of the highway, the sodding, seeding and planting of slopes, the construction of highway guard rails, the settlement of claims for property purchased, appropriated or damaged by such construction, and the maintenance of railroad traffic and rearrangement and restoration of railroad facilities made necessary by the work herein contemplated, shall be considered as necessary items to be included as part of this improvement.

## SECTION 3

Responsibility for the several necessary items of work shall be as follows:

- a. The following items shall be let in contract by the STATE after competitive bidding as provided by law, at PROJECT expense, subject to the provisions of this agreement:
  1. Rehabilitation of the highway bridge, including necessary side drives and approaches.
  2. Sodding, seeding and planting of slopes.
  3. Erecting necessary highway guardrails.
- b. The following items shall be done or caused to be done by the COMPANY with its own forces, at PROJECT expense, subject to the provisions of this agreement.
  1. Changes in communication and signal lines, interlocking and signal apparatus
  2. Provision of switch tenders, flagmen, watchmen and other protective services and devices to promote safety and insure continuity of train operations as may be necessary in connection with the work performed by the COMPANY's forces.

#### **SECTION 4**

Any work not specifically provided for in SECTION 3 shall be done by one of the parties hereto as may be mutually agreed upon from time to time during progress of the work, as provided for by the rules and regulations of the Federal Highway Administration as then in effect.

#### **SECTION 5**

All work to be done by the COMPANY under the provisions of this agreement shall be done in accordance with the plans described in SECTION 1, together with such other plans and specifications, detailed and supplementary thereto, as may be mutually agreed upon and as may be necessary to carry out the work fully in accordance with the intent of this agreement and in accordance with good engineering practice. All work to be done by the STATE shall be done in accordance with said plans and under the standard and supplemental specifications of the Department of Transportation in force on the date of the award of the contract, together with such special provisions as may be agreed upon by the parties hereto.

The STATE will require its contractor to use Railroad protective personnel to protect railroad traffic made necessary or occasioned by his operations, as set forth in special provisions to be approved by the parties hereto, which are more specifically set forth in the "Special Clauses in the Proposal" and which are included in this agreement by reference.

The COMPANY agrees to furnish the STATE's contractor at PROJECT expense, and the STATE shall require its contractor to use, such switch tenders, flag men, telegraph operators, pilots, watchmen or other protective services and devices, other than engineering personnel, as in the opinion of the COMPANY are required to promote the safety and insure continuity of railroad traffic during the contractor's operations.

The COMPANY agrees to bill the STATE as a part of its regular force account work the actual cost for such protective services and devices, including the actual rate of pay, plus the amount paid for overtime, insurance, railroad retirement, vacation allowance, holidays, health and welfare, transportation, deadhead and turn around time, accounting and billing.

The STATE agrees to reimburse the COMPANY for said protective services and devices as a part of its regular force account work as set forth in this agreement.

#### **SECTION 6**

The STATE shall have general charge of the engineering work on the PROJECT, but the COMPANY shall provide such engineering services as the STATE may require. Nothing herein shall deny the COMPANY the right to place inspectors on work being done on its property or facilities. Preliminary engineering costs incurred by the COMPANY subsequent to June 27, 2006 may be charged against the PROJECT.

Construction engineering and inspection costs incurred by the COMPANY subsequent to the award of a construction contract by the STATE may be charged against the PROJECT.

## **SECTION 7**

The STATE shall require its contractor at all times to use all reasonable care and diligence and to cooperate with the officials of the COMPANY in order to avoid accidents, damage or unnecessary delay to or interference with trains upon the tracks of the COMPANY.

Any of the COMPANY's equipment, such as work trains, locomotive cranes, cars or other rolling stock used on the work by the STATE's contractor in carrying out his contract shall not be chargeable to the parties hereto, but the STATE shall require the contractor to bear the cost of the rental of such equipment as part of the contract price for the work.

If at any time the STATE's contractor requires a temporary crossing over the COMPANY's tracks, the STATE shall require said contractor to arrange with the COMPANY for such crossing.

## **SECTION 8**

It is understood that the construction costs of the PROJECT herein contemplated are to be financed from funds provided by the STATE and expended in accordance with Federal regulations, that all plans, specifications, estimates of costs, awards of contracts, acceptance of work and procedure in general will at all times conform to all Federal laws, rules, regulations, orders and approvals applying to a Federal-Aid Project, and the STATE shall reimburse the COMPANY for construction costs and for preliminary and construction engineering costs in accordance with Federal-Aid Policy Guide 140(I) of the Federal Highway Administration or any subsequent amendments thereto, in such amounts and forms as are proper and eligible for payment from Federal-Aid highway funds.

The COMPANY shall render its billings to the STATE in accordance with said rules and regulations, and further agrees to provide and furnish such itemized records of and substantiating data for such costs as may be necessary.

In the event that delays or difficulties arise in securing necessary approvals or in securing necessary rights of way or settling damages or damage claims which, in the opinion of the STATE, render it impracticable to utilize funds from the current appropriation for the construction of the PROJECT, the STATE may serve formal notice of cancellation upon the COMPANY and this agreement shall, with the exception of the obligations set forth in the following sentence, become null and void. The STATE shall reimburse the COMPANY for all costs and expenses incurred by it at the request of the STATE, on account of the PROJECT prior to such cancellation, and shall restore the COMPANY's property to the condition existing prior to the initiation of the PROJECT construction.

## **SECTION 9**

The COMPANY may bill the STATE monthly or periodically for its force account when costs exceed \$1,000. Progressive invoices may be submitted for work done during the previous month or period showing the portion of estimated cost completed. A final bill covering actual cost of work and showing all details shall be submitted to the STATE within ninety (90) days after completion of said work. The STATE shall pay all bills that have been approved within sixty (60) days after receipt thereof. The STATE may hold a retainer on all bills not to exceed eight percent (8%) until final payment. Final payment for all amounts due the COMPANY shall be paid by the STATE within sixty (60) days after the final audit has been made and approved.

## SECTION 10

The STATE shall acquire or settle all property, property rights and all damages to property affected by the PROJECT. The cost of said property, property rights and damages to property shall be included as a part of the PROJECT expense.

The COMPANY, insofar as it has the legal right so to do, shall permit the STATE and/or its contractor to enter upon lands owned or operated by the COMPANY to construct and occupy said highway facilities across its property with sufficient width to permit construction and maintenance of the PROJECT. The STATE and COMPANY shall enter into good faith negotiations for a price to be consistent with the property interest determined by the Director of Transportation to be needed for the proposed improvement.

However, the price to be paid by the STATE to the COMPANY for said conveyances (representing the fair market value thereof plus damages, if any, to the residue) shall be as mutually agreed upon within nine (9) months from the date of occupancy by the STATE, and if agreement as to price is reached, an additional period of ninety (90) days shall be allowed for settlement, it being agreed however, that if no agreement as to price is reached within the aforesaid nine (9) month period, the STATE will within ninety (90) days thereafter institute an eminent domain proceeding authorized by law for the determination of the value of same. The provisions of this agreement shall survive the institution of such eminent domain proceeding.

The STATE shall furnish the plans and descriptions for any such conveyance. It is understood however, that the foregoing right of entry is a permissive use only, and this Section is not intended to convey or obligate the COMPANY to convey any interest in its land.

In case any action involving said improvement is brought by or against any party hereto, said party shall promptly notify the other parties of the pendency of such action.

## SECTION 11

Each party hereto waives, but only against the others, any and all damages or right to claim damages to any of its property growing out of or in any way connected with the improvement herein contemplated, except as otherwise provided for in this agreement.

The STATE shall require of its contractor a bond, conditioned according to Section 5525.16 of the Revised Code of Ohio, in favor of the STATE, and the COMPANY, and shall further require its contractor to take out before work is commenced, and keep in effect until work is completed and accepted, a policy of Railroad Protective Liability Insurance from an insurance company authorized to do business in the State of Ohio, to protect the COMPANY against loss or damage to property and injury to or death of persons, and against all claims, demands, expenses, suits or judgments arising because of, or resulting from the operations of the contractor, his subcontractor, agents or employees, such policy of insurance to provide for a single limit in the amount of \$5,000,000.00 per occurrence and subject to that limit, an aggregate in the amount of \$10,000,000.00 for each annual period for all damages arising out of bodily injuries to or death of one or more persons and out of injury to or destruction of property including such property in the care, custody and control of the COMPANY.

The above insurance provisions are more specifically set forth in the "Special Clauses in the Proposal" which are included in this agreement by reference.

## **SECTION 12**

The work provided for in this agreement shall be commenced by the parties hereto within thirty (30) days from the latter of the following: (1) the date on which this agreement becomes effective, (2) the date on which the COMPANY has been notified by the STATE to proceed or (3) the date on which all funds necessary therefore on the part of the STATE have been properly certified and made available; and it shall be completed within a reasonable time thereafter. Buying and assembling of materials shall be construed as compliance with the foregoing thirty (30) day provision.

All obligations of the STATE provided for in this agreement which require the expenditure of funds by the STATE shall terminate at the end of the present biennium, being June 30, 2009. If construction covered under said agreement is not complete by June 30, 2009, it is the expressed intention of the parties to renew said obligations for one successive biennium period; with the renewal period beginning July 1, 2009 and ending no later than June 30, 2011; until such time as construction covered under said agreement is complete. Said renewal is conditioned upon the STATE determining future appropriations will permit the STATE to renew said -obligations.

All financial obligations of the STATE as provided for in this agreement are subject to the provisions of Section 126.07 of the Ohio Revised Code.

## **SECTION 13**

Upon completion of the PROJECT herein contemplated the STATE shall at its own cost and expense, maintain, repair and renew, or by agreement with others provide for the maintenance, repair and renewal of the bridge structure and surfaces, approach grades and all highway facilities constructed or changed under the terms of this agreement. The COMPANY will permit access onto its property to perform said maintenance and shall at its own cost and expense, maintain, repair and renew all of its facilities constructed or changed under the terms of this agreement.

The COMPANY will not be vested with any rights of ownership of the bridge structure, and will not have a duty to maintain the bridge structure, and will not, if the structure ceases to be a part of the highway system, have a duty to remove the facility from the COMPANY right of way.

The COMPANY shall have the right to attach to the portion of said structure, where it crosses the property of the COMPANY, such signal, electric and communication wires as may be requisite or useful in the operation of the COMPANY; any such attachments which are not a part of the PROJECT shall be made and maintained by the COMPANY at its own expense. No such attachments shall be made without the approval by the STATE of the COMPANY's detailed plans.

## **SECTION 14**

This agreement shall be for the benefit of the parties hereto only and no person, firm or corporation shall acquire any rights whatsoever by virtue of this agreement, except the STATE and COMPANY and the successors and assigns of the COMPANY.

## **SECTION 15**

The Federal Highway Administration's Federal-Aid Policy Guide 646(B) classifies this PROJECT in Classification No. 2 resulting in no ascertainable benefits to the COMPANY. The Parties signatory to this agreement accepts this classification as applicable in this instance. The COMPANY's contribution shall be zero dollars.

## **SECTION 16**

The COMPANY agrees to adhere to the requirements of Ohio Ethics law as provided by Section 102.04 of the Ohio Revised Code. O.R.C. Section 102.04(A) prohibits a state official or employee from receiving compensation, other than from his own agency, for personal services rendered in a case, proceeding application, or other matter before any state agency. O.R.C. Section 102.04(B) prohibits state officials and employees from selling goods or services to state agencies, except by competitive bidding.

It is understood by the parties that non-elected state officials and employees may qualify for an exemption under Section 102.04(D), if (1) the agency with which the official or employee seeks to do business is an agency other than the one with which he serves; and, (2) prior to rendering personal services or selling or agreeing to sell goods or services, the official or employee files an O.R.C. Section 102.04(D) statement with the Ohio Ethics Commission, the agency with which he serves, and the agency with which he seeks to do business. The statement must include a declaration that the non-elected state official or employee disqualifies himself for a period of two years from any participation in his official capacity as a board or commission member in any matter involving any official or employee of the agency with which he seeks to do business.

It is expressly understood and agreed to by the parties that a failure by the COMPANY to file a declaration statement as required under O.R.C. Section 102.04(D), may be considered by the STATE, a breach of material condition of this agreement and the STATE may, if it so elects, void this agreement.

## **SECTION 17**

In carrying out this contract, the COMPANY shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, disability, age, or Vietnam-era veteran status.

The COMPANY will ensure that applicants are hired and that employees are treated during employment without regard to their race, religion, color, sex, national origin, disability, age, or Vietnam-era veteran status.

Such action shall include, but not be limited to, the following: Employment, Upgrading, Demotion, or Transfer; Recruitment or Recruitment Advertising; Layoff or Termination; Rates of Pay or other forms of Compensation; and Selection for Training including Apprenticeship.

## **SECTION 18**

COMPANY agrees to comply with all applicable state and federal laws regarding drug-free workplace. COMPANY shall make a good faith effort to ensure that all COMPANY employees, while working on state property, will not purchase, transfer, use or possess illegal drugs or alcohol or abuse prescription drugs in any way.

**IN WITNESS WHEREOF**, the parties hereunto have caused this agreement to be duly executed in duplicate as of the day and year first above written.

THE STATE OF OHIO

By *Gordon Proctor*  
Director of Transportation

CSX TRANSPORTATION, INC.

By *Eric G. Peterson*

**Eric G. Peterson**  
**ASST. CHIEF ENGINEER**  
**PUBLIC PROJECTS**



MARION COUNTY  
MAR-4D-00.70; PID 79938A  
CSX TRANSPORTATION INC.;  
Milepost CD-45.20  
CSX OP# OH0591

### SPECIAL CLAUSES IN THE PROPOSAL

The bidder, if awarded the contract for this improvement agrees:

1. To cooperate at all times with the local officials of the railroad company.
2. To use all reasonable care and diligence in the work in order to avoid accidents, damage or unnecessary delay to, or interference with the trains and other property of the railroad company.
3. To conduct his work in a manner satisfactory to the Chief Engineer of the railroad company or his authorized representative, to perform his work in such manner and at such time as not to unnecessarily interfere with the movements of trains or railroad traffic, and to hold his work at all times open to inspection of railroad company inspectors.
4. To cooperate with a public utility, railroad or other organizations having occasion to do work on or in connection with the improvement.
5. To avoid unnecessary use of railroad property without written permission of the railroad company and to leave railroad roadbed and property in a condition acceptable to the Chief Engineer of the railroad company.
6. To execute a bond conditioned according to Section 5525.16 of the Revised Code of Ohio, in favor of the State of Ohio and further to carry insurance of the following kinds and amounts:

a) **Railroad Protective Liability Insurance.**

In addition to the above, he shall furnish evidence to the highway department that, with respect to the operations he or any of his sub-contractors perform, he has provided for and in behalf of CSX Transportation Inc. in the amount of \$5,000,000 per occurrence and subject to that limit per occurrence, an aggregate limit in the amount of \$10,000,000 for each annual period.

The above railroad protective policy of insurance shall conform to the Railroad Liability requirements prescribed by the Federal Highway Administration in Federal-Aid Policy Guide 23 CFR 646A as amended.

The corporate name and address of the "Named Insured" as listed on the policy shall be as follows:

CSX Transportation, Inc.  
500 Water Street, C-907  
Jacksonville, FL 32202

The description of operations must appear on the Declarations, must match the project description in this agreement and must include the appropriate MP and/or OP number as identified at the top of pg. 1

The job location must appear on the Declarations page and must include the city, state and appropriate highway name/number.

The name and address of the prime contractor must appear on the Declarations.

The name and address of the Department must be identified on the Declarations as the "Involved Governmental Authority or Other Contracting Party."

Endorsements that **must** be included:

- Pollution Exclusion Amendment – CG 28 31 (not required with CG 00 35 01 96 and newer versions)
- Delete Common Policy Conditions – Section E. Premiums

Other endorsements/forms that will be accepted are:

- Broad Form Nuclear Exclusion – Form IL 00 21
- 30-day Advance Notice of Non-renewal or cancellation
- Required State Cancellation Endorsement
- Quick Reference or Index Form CL/IL 240

**Endorsements/forms that are NOT acceptable are:**

- Any Pollution Exclusion Endorsement except CG 28 31
- Any Punitive or Exemplary Damages Exclusion
- Any other endorsement/form not specifically authorized above.
- Any type of deductible policy

**The number of trains operating through the improvement is estimated to be:**

0 Passenger trains per day @ N/A miles per hour.  
40 Freight trains per day @ 30 miles per hour.  
~~45~~ Freight trains per day @ ~~50~~ miles per hour.

**Additional Terms**

1. Contractor must submit its original insurance policies and two (2) copies and all notices and correspondence regarding the insurance policies to:

Deborah A. Tauro  
Risk Manager, Planning & Analysis  
CSX Corporation  
500 Water Street – C907  
Jacksonville, FL. 32202  
Phone: 904-366-5088  
FAX: 904-245-3506  
Email: Deborah\_Tauro@csx.com

- 2 Neither Agency nor Contractor may begin work on the Project until it has received CSXT's written approval of the required insurance policies.

Certificate must be provided which evidences the following coverages and lists the Certificate Holder as:

CSX Transportation, Inc.  
500 Water Street, C-907  
Jacksonville, FL 32202

Commercial General Liability: as required by the Department's Construction and Material Specification, Section 107.12, and lists CSX Transportation, Inc. as additional insured.

Automobile Liability: Limits of minimum of \$1,000,000 per occurrence, and lists CSX Transportation, Inc. as additional insured.

**(b) General Insurance Requirements**

The insurance hereinbefore specified shall be with an acceptable insurance company authorized to do business in the State of Ohio, and shall be taken out before execution of the Contract by the Director and kept in effect until all work required to be performed under the terms of the contract is satisfactorily completed as evidenced by the formal acceptance by the State. Such policies shall include thirty (30) days canceling notice. The cost of insurance hereinbefore specified in subsection (a) will be a specific bid item.

Notwithstanding the Department's Construction and Material Specification No. 107.12 "Evidence" as above set forth shall consist of furnishing the Director of Transportation three (3) certified copies of the railroad policy.

7. To indemnify, defend, and hold CSXT and its affiliates harmless from and against all claims, demands, payments, suits, actions, judgments, settlements, and damages of every nature, degree, and kind (including direct, indirect, consequential, incidental, and punitive damages), for any injury to or death to any person(s) (including, but not limited to the employees of CSXT, its affiliates, the State or the Contractor), for the loss of or damage to any property whatsoever (including but not limited to property owned by or in the care, custody, or control of CSXT, its affiliates, the State or the Contractor, and environmental damages and any related remediation brought or recovered against CSXT and its affiliates), arising directly or indirectly from the negligence, recklessness or intentional wrongful misconduct of the Contractor, the State, and their respective agents, employees, invitees, contractors, or its contractor's agents, employees or invitees in the performance of work in connection with the project or activities incidental thereto, or from their presence on or about CSXT's property. The foregoing indemnification obligation shall not be limited to the insurance coverage required in paragraph 6 above
8. The Railroad company will assign, at the sole cost and expense of the Department, railroad flaggers or other protective services and devices as necessary to insure the safety and continuity of the work to be performed as a part of this contract. Said services and devices will be provided when necessary; as determined by the railroad company, because of any of the Contractor's operations over, under or adjacent to tracks over which trains are operating. The provision of such protective personnel and devices does not relieve the Contractor from the liability of payment for damage caused by his operations.

Such protection will be required when men or equipment are working within clearances limits of 25 feet of a rail or when work being performed adjacent to operating tracks may present hazards to tracks, train operation, or when equipment does or may infringe upon such limits.

The Contractor will not be permitted to operate any of his own equipment on railroad tracks except under an acceptable arrangement with the railroad company. Such equipment and the operation of such equipment, or equipment rented from the railroad company, shall be arranged for by the Contractor with the railroad and the cost for its use, including protection or railroad traffic, shall be borne by the Contractor.

The Contractor shall notify the following named individual for each railroad company at least 30 days, or as directed by the authorized representative of the Railroad, in advance of starting any work which might require protection:

Mr. Dave Fette, Regional Director R/W Construction  
CSX Transportation, Inc.  
1717 Dixie Highway, Suite 400  
Fort Wright, KY 41011 - 2785  
Telephone: (859) 344- 8137

The Contractor shall notify the railroad at least 5 working days in advance of suspending or ceasing operations that require a flagger.

Railroad protective personnel assigned to the project will be responsible for notifying the Engineer upon arrival at the job site on the first working day that protective services begin and on the last day that he performs such services. This will be required for each separate period that such services are provided. The Engineer will document such notification in the project diary.

The Contractor will be responsible for protective services provided at his request and not utilized due, in the opinion of the Engineer, to a change in the Contractor's construction schedule or if it is determined by the Engineer that the requested services were not necessary. The actual costs for such protective services so assessed to the Contractor will be deducted from the Contract.

The decision of the Director of Transportation shall be final in the event of controversy as to the necessity for any protection services provided and not utilized by the Contractor as described in the preceding paragraph.

9. To pay the railroad or owning company for any changes, requested for his convenience, to railroad property, facilities, wire, fiber optic and/or pipe lines other than shown on the plans for the project.
10. If at any time the contractor desires a temporary crossing of the railroad's tracks, he shall make a request for a temporary crossing from the railroad. If approved, he shall arrange with the railroad company, execute its regular form of private grade crossing agreement covering the crossing desired, paying all construction, maintenance, removal, protection and other costs.

11. Methods and procedures for performing work on property of **CSX Transportation, Inc.** must be approved by:

David J. Fette, Regional Director Right of Way Construction  
CSX Transportation, Inc.  
1717 Dixie Highway, Suite 400  
Fort Wright, KY 41011-2785  
Phone: (859) 344-8137

End of Special Clauses

**CSX TRANSPORTATION, INC.  
FORCE ACCOUNT ESTIMATE**

ACCT. CODE : 709 - OH0591

ESTIMATE SUBJECT TO REVISION AFTER: 02/19/2008 DOT NO.: 228 719H  
 CITY: Marion COUNTY: Marion STATE: OH  
 DESCRIPTION: Proposed Bridge Rehabilitation - Columbia Street Bridge over CSXT.

DIVISION: Appalachian SUB-DIV: Columbus MILE POST: CD - 45.20  
 AGENCY PROJECT NUMBER: MAR-95-14.36 PID: 79938

**PRELIMINARY ENGINEERING:**

200 Labor (Non Contract)		\$ 1,350
200 Additive	42.41%	\$ 573
230 Expenses		\$ 235
212 Contracted & Administrative Engineering Services		\$ 8,000
<b>Subtotal</b>		<b>\$ 10,158</b>

**CONSTRUCTION ENGINEERING/INSPECTION:**

200 Labor (Non Contract)		\$ 1,350
200 Additive	42.41%	\$ 573
230 Expenses		\$ 235
212 Contracted & Administrative Engineering Services		\$ 12,500
<b>Subtotal</b>		<b>\$ 14,658</b>

**FLAGGING SERVICE: (Contract Labor)**

070 Labor (Conductor-Flagman)		\$ -
050 Labor (Foreman/Inspector)		\$ 11,760
070 Additive	76.28% (Transportation Department)	\$ -
050 Additive	77.52% (Engineering Department)	\$ 9,116
230 Per Diem	(Engineering Department)	\$ 3,000
230 Expenses		\$ 1,800
<b>Subtotal</b>		<b>\$ 25,676</b>

**SIGNAL & COMMUNICATIONS WORK:** (Details Attached) \$ 75,462

**TRACK WORK:** (Details Attached) \$ -

**ACCOUNTING & BILLING:**

040 Labor		\$ 1,600
040 Additive	65.54%	\$ 1,049
<b>Subtotal</b>		<b>\$ 2,649</b>

**PROJECT SUBTOTAL**

900 <b><u>CONTINGENCIES:</u></b>	10.00%	\$ 128,602
		\$ 12,860

**GRAND TOTAL \*\*\*\*\*** \$ 141,462

**DIVISION OF COST:**

Agency	<u>100.00%</u>	\$ 141,462
Railroad		\$ -
<b>TOTAL *****</b>		<b>\$ 141,462</b>

**NOTE: Estimate is based on FULL CROSSING CLOSURE during work by Railroad Forces.**

This estimate has been prepared based on site conditions, anticipated work duration periods, material prices, labor rates, manpower and resource availability, and other factors known as of the date prepared. The actual cost for CSXT work may differ based upon the agency's requirements, their contractor's work procedures, and/or other conditions that become apparent once construction commences or during the progress of the work

Office of Assistant Chief Engineer Public Projects--Jacksonville, Florida

Estimate prepared by: URS Corporation

Approved by: Mel R. McNichols

CSXT Public Projects Group

DATE: 08/23/2007

REVISED:

DATE: 08/28/2007

Form Last Revised: December 19, 2006 HAG

Project Summary Sheet

**CSX TRANSPORTATION, INC.  
FORCE ACCOUNT ESTIMATE**

ACCT. CODE : 709 - OH0591  
Pub EB - OH EB3 (OH)

ESTIMATE SUBJECT TO REVISION AFTER: 2/19/2008 DOT NO.: 228 719H  
CITY: Marion COUNTY: Marion STATE: OH  
DESCRIPTION: Proposed Bridge Rehabilitation - Columbia Street Bridge over CSXT.

DIVISION: Appalachian SUB-DIV: Columbus MILEPOST: CD - 45.20  
DRAWING NO.: Stage 3 DRAWING DATE: 8/7/07 Letter REGION: Central  
AGENCY PROJECT NUMBER: MAR-95-14.36 PID: 79938

**PRELIMINARY ENGINEERING:**

200	Labor (Non Contract)		5	Days @	\$ 270.00	\$	1,350
200	Additive	42.41%				\$	573
230	Expenses					\$	235
212	Contracted & Administrative Engineering Services					\$	8,000
	<b>Subtotal</b>					\$	<u>10,158</u>

**CONSTRUCTION ENGINEERING/INSPECTION:**

200	Labor (Non Contract)		5	Days @	\$ 270.00	\$	1,350
200	Additive	42.41%				\$	573
230	Expenses					\$	235
212	Contracted & Administrative Engineering Services					\$	12,500
	<b>Subtotal</b>					\$	<u>14,658</u>

**FLAGGING SERVICE: (Contract Labor)**

70	Labor (Conductor-Flagman)		0	Days @	\$ 290.00	\$	-
50	Labor (Foreman/Inspector)		40	Days @	\$ 294.00	\$	11,760
70	Additive	76.28% (Transportation Department)				\$	-
50	Additive	77.52% (Engineering Department)				\$	9,116
230	Expenses	(Per Diem Engineering Department)	40	Days @	\$ 75.00	\$	3,000
230	Expenses	(Mileage Operations Department)	40	Days @	\$ 45.00	\$	1,800
	<b>Subtotal</b>					\$	<u>25,676</u>

**COMMUNICATIONS WORK:**

	Temporary (Details Attached)					\$	-
	Permanent (Details Attached)					\$	-
	<b>Subtotal</b>					\$	<u>-</u>

**CSX TRANSPORTATION, INC.  
FORCE ACCOUNT ESTIMATE**

ACCT. CODE : 709 - OH0591  
Pub EB - OH EB3 (OH)

**TRACK: LABOR**

50	Traffic Control		0	MAN-HRS	\$ 21.00	\$	-
50	Remove Existing Crossing		0	MAN-HRS	\$ 21.00	\$	-
50	Renew Cross Ties		0	MAN-HRS	\$ 21.00	\$	-
50	Renew Rail		0	MAN-HRS	\$ 21.00	\$	-
50	Install OTM		0	MAN-HRS	\$ 21.00	\$	-
50	Install Field Welds		0	MAN-HRS	\$ 21.00	\$	-
50	Install Geo-Textile Fabric		0	MAN-HRS	\$ 21.00	\$	-
50	Install Sub-Drains		0	MAN-HRS	\$ 21.00	\$	-
50	Install Ballast		0	MAN-HRS	\$ 21.00	\$	-
50	Line and Surface		0	MAN-HRS	\$ 21.00	\$	-
50	Install Crossing Materials		0	MAN-HRS	\$ 21.00	\$	-
50	Install Bituminous Pavement		0	MAN-HRS	\$ 21.00	\$	-
50	Improve Drainage		0	MAN-HRS	\$ 21.00	\$	-
50	Remove Ballast & Debris from RR Right-of-Way		0	MAN-HRS	\$ 21.00	\$	-
50			0	MAN-HRS	\$ 21.00	\$	-
50	Clean-Up		0	MAN-HRS	\$ 21.00	\$	-
50	Additive	77.52%				\$	-
230	Per Diem		0	MAN-DAY	\$ 90.00	\$	-
	<b>Subtotal</b>					\$	-

**TRACK: MATERIAL**

220	Cross Ties, Main Line		0	EA	\$ 31.00	\$	-
220	Rail, 136RE, New		0	LF	\$ 17.00	\$	-
220	Misc. OTM		1	LOT	\$ -	\$	-
210	Geo-Textile Fabric		0	RL	\$ 250.00	\$	-
210	Sub-Drains		0	LF	\$ 6.00	\$	-
220	Ballast		0	NT	\$ 5.75	\$	-
220	Field Welds		0	EA	\$ 100.00	\$	-
			0		\$ -	\$	-
			0		\$ -	\$	-
210	Concrete Full Width		0	TF	\$ 225.00	\$	-
210	Concrete/Rubber Xing (CSX)		0	TF	\$ 135.00	\$	-
210	Rubber Crossing, Full Depth		0	TF	\$ 280.00	\$	-
210	Timber/Asphalt Crossing (CSX Standard)		0	TF	\$ 42.00	\$	-
220	Crossties, 10' Length		0	EA	\$ 39.00	\$	-
210	Bituminous Material		0	NT	\$ 80.00	\$	-
210	Sales Tax on Material	0.00%				\$	-
210	Material Handling	5.00%				\$	-
	<b>Subtotal</b>					\$	-

**CONTRACT:**

215	Asphalt Paving (In Place)		0	NT	\$ 120.00	\$	-
241	Disposal of Waste Materials		0	TF	\$ 10.00	\$	-
215	Maintenance of Traffic		0	DAY	\$ 300.00	\$	-
	<b>Subtotal</b>					\$	-



**CSX TRANSPORTATION, INC.  
FORCE ACCOUNT ESTIMATE**

ACCT. CODE : 709 - OH0591  
Pub EB - OH EB3 (OH)

241	<b><u>EQUIPMENT RENTAL:</u></b>					
	Subtotal				\$	-
50	<b><u>WORK TRAIN:</u></b>	0	DAY	\$ 2,100.00	\$	-
	Subtotal				\$	-
	<b><u>SALVAGE:</u></b>					
228	Rail	0	NT	\$ 65.00	\$	-
228	OTM	0	NT	\$ 75.00	\$	-
	Subtotal				\$	-
	<b><u>SIGNAL WORK:</u></b>					
210	Material - Field & Consumables				\$	18,919
210	Material - Sales Tax				\$	-
220	Material - Shop				\$	-
60	Construction Labor				\$	13,330
65	Shop Labor				\$	-
230	Per Diem				\$	5,775
200	RR Engineering, Preliminary				\$	3,320
200	RR Engineering, Construction				\$	1,999
60	Additives to Construction Labor				\$	11,074
65	Additives to Shop Labor				\$	-
200	Additives to Engineering				\$	2,091
241	Equipment Expense				\$	7,150
241	Waste Management				\$	132
212	Contract Engineering				\$	7,471
211	Freight				\$	1,200
216	AC Power Service				\$	-
228	Salvage				\$	1
900	Poleline Removal				\$	3,000
	Subtotal				\$	75,462
	<b><u>ACCOUNTING &amp; BILLING:</u></b>					
40	Labor	8	Days @	\$ 200.00	\$	1,600
40	Additive	65.54%			\$	1,049
	Subtotal				\$	2,649
	<b><u>PROJECT SUBTOTAL:</u></b>				\$	128,602
900	<b><u>CONTINGENCIES:</u></b>	10.00%			\$	12,860
	<b>GRAND TOTAL</b>	*****			\$	141,462

**CSX TRANSPORTATION, INC.  
FORCE ACCOUNT ESTIMATE**

ACCT. CODE : 709 - OH0591  
Pub EB - OH EB3 (OH)

**DIVISION OF COST:**

Agency	<u>100.00%</u>		\$	141,462
Railroad	<u>0.00%</u>		\$	-
<b>TOTAL</b>		*****	<b>\$</b>	<b>141,462</b>

**NOTE: Estimate is based on FULL CROSSING CLOSURE during work by Railroad Forces.**

This estimate has been prepared based on site conditions, anticipated work duration periods, material prices, labor rates, manpower and resource availability, and other factors known as of the date prepared. The actual cost for CSXT work may differ based upon the agency's requirements, their contractor's work procedures, and/or other conditions that become apparent once construction commences or during the progress of the work

Office of Assistant Chief Engineer Public Projects--Jacksonville, Florida

Estimate prepared by: URS Corporation

Approved by: Mel R. McNichols

CSXT Public Projects Group

DATE: 08/23/2007

REVISED:

DATE: 08/28/2007

ACCT. CODE : 709 - OH0591  
Pub EB - OH EB3 (OH)

---

ESTIMATE SUBJECT TO REVISION AFTER: 02/19/2008 DOT NO.: 228 719H  
CITY: Marion COUNTY: Marion STATE: OH  
DESCRIPTION: Proposed Bridge Rehabilitation - Columbia Street Bridge over CSXT.

DIVISION: Appalachian SUB-DIV: Columbus MILEPOST: CD - 45.20  
DRAWING NO.: Stage 3 DRAWING DATE: 8/7/07 Letter REGION: Central  
AGENCY PROJECT NUMBER: MAR-95-14.36 PID: 79938

---

**SIGNAL WORK:**

210 Material - Field & Consumables	\$	18,919
210 Material - Sales Tax	\$	-
220 Material - Shop	\$	-
60 Construction Labor	\$	13,330
65 Shop Labor	\$	-
230 Per Diem	\$	5,775
200 RR Engineering, Preliminary	\$	3,320
200 RR Engineering, Construction	\$	1,999
60 Additives to Construction Labor	\$	11,074
65 Additives to Shop Labor	\$	-
200 Additives to Engineering	\$	2,091
241 Equipment Expense	\$	7,150
241 Waste Management	\$	132
212 Contract Engineering	\$	7,471
211 Freight	\$	1,200
216 AC Power Service	\$	-
228 Salvage	\$	1
900 Poleline Removal	\$	3,000
<b>Subtotal</b>	<b>\$</b>	<b>75,462</b>

ESTIMATE SUBJECT TO REVISION AFTER: 02/19/2008 DOT NO.: 228 719H  
 CITY: Marion COUNTY: Marion STATE: OH  
 DESCRIPTION: Proposed Bridge Rehabilitation - Columbia Street Bridge over CSXT.  
 DIVISION: Appalachian SUB-DIV: Columbus MILEPOST: CD - 45.20  
 DRAWING NO.: Stage 3 DRAWING DATE: 8/7/07 Letter REGION: Central  
 AGENCY PROJECT NUMBER: MAR-95-14.36 PID: 79938

Amount		
Task	Task Desc	Total
40	Labor General Office	\$2,649
50	Labor Roadway	\$20,876
60	Labor Signal	\$24,404
65	Labor Signal1	
70	Labor Transportation	
200	Labor NonContract	\$11,255
210	Invoice Material	
	Material - Field & Consu	\$18,919
211	Invoice Freight	\$1,200
212	Invoice Contract Eng	\$27,971
215	Invoice Misc	
216	Invoice Utilities	
220	Material New	
	Material - Shop	
228	Scrap Credit	\$1
230	ExpenseRpts	\$11,045
241	Invoice Rental	\$7,282
900	Other	\$3,000
900	Contingencies	\$12,860
	Material New	
Grand Total		\$141,462



August 29, 2007

Mr. Bruce Birch, P.E.  
District 6 Railroad Coordinator  
Ohio Department of Transportation  
400 East William Street  
Delaware, Ohio 43015

**SUBJECT: Marion, Marion County, Ohio**  
**Proposed Bridge Rehabilitation – Prospect Street over CSXT**  
**Agency Reference: MAR-4D-0.70**  
**MAR-4D-0070**  
**PID No. 79938**  
**AAR/DOT Nos.: 262 081A & 513 585V**  
**CSXT Reference: Milepost QI-100.85 / Mt. Victory Subdivision**  
**Western Division / Western Region**  
**OP No.: OH0592**

Dear Mr. Birch:

URS Corporation (URS), on behalf of CSX Transportation, Inc. (CSXT), has conducted engineering review of the Stage 3 Submittal for the subject project, as transmitted via ODOT Plan Review Form dated August 7, 2007. We offer the following:

- All previous concerns / comments have been satisfactorily addressed.
- No other exceptions taken to the Stage 3 Submittal relative CSXT facilities and operations.
- The railroad Force Account Estimate for the subject project will be finalized and the agreements processed for signature.

Project specific questions and questions should be directed to URS Project Manager Steve Van Slyke at 513.419.3509. For general or administrative questions, feel free to contact me.

Sincerely,

Larry J. Shaw, P.E.  
Program Manager  
URS Corporation

Copy: Rich Behrendt – ODOT Central Office  
Tom Makris – ODOT D6

URS Corporation  
One Indiana Square, Suite 2100  
Indianapolis, IN 46204  
Tel: 317-532-5481  
Fax: 317-532-5499  
Larry\_Shaw@urscorp.com

Providing Engineering Services for



August 28, 2007

Mr. Bruce Birch, P.E.  
District 6 Railroad Coordinator  
Ohio Department of Transportation  
400 East William Street  
Delaware, Ohio 43015

**SUBJECT:** Marion, Marion County, Ohio  
Proposed Bridge Rehabilitation – Columbia Street over CSXT  
Agency Reference: MAR-4D-0.70  
MAR-95-1436  
PID No. 79938  
AAR/DOT No.: 228 719H  
CSXT Reference: Milepost CD-45.20 / Columbus Subdivision  
Appalachian Division / Central Region  
OP No.: OH0591


Dear Mr. Birch:

URS Corporation (URS), on behalf of CSX Transportation, Inc. (CSXT), has conducted engineering review of the Stage 3 Submittal for the subject project, as transmitted via ODOT Plan Review Form dated August 7, 2007. We offer the following:

- All previous concerns / comments have been satisfactorily addressed.
- No other exceptions taken to the Stage 3 Submittal relative CSXT facilities and operations.
- The railroad Force Account Estimate for the subject project will be finalized and the agreements processed for signature.

Project specific questions and questions should be directed to URS Project Manager Steve Van Slyke at 513.419.3509. For general or administrative questions, feel free to contact me.

Sincerely,

  
Larry J. Shaw, P.E.  
Program Manager  
URS Corporation

Copy: Rich Behrendt – ODOT Central Office  
Tom Makris – ODOT D6

RECEIVED

SEP 4 2007

Production Dept.

URS Corporation  
One Indiana Square, Suite 2100  
Indianapolis, IN 46204  
Tel: 317-532-5481  
Fax: 317-532-5499  
Larry\_Shaw@urscorp.com

Providing Engineering Services for 



# OHIO DEPARTMENT OF TRANSPORTATION

DISTRICT 6 • INTER-OFFICE COMMUNICATION  
OFFICE OF PRODUCTION

**To:** Bruce Birch/Thomas Makris, PE, Project Coordinator, District 6  
**From:** Dennis Sheets, Staff Specialist, District 6  
**Date:** October 19, 2007  
**Subject:** MAD-142-13.08, PID 76536, Stage 3 Compliance General Review Comments

---

Following are my comments on the subject plan:

**Sheet 1:**

- 1) Add Right of Way to the Index. The RW plan sheets are included in the plan sheet numbering. This will affect all sheets.
- 2) Add a Plans Certified signature block.
- 3) The dates for BP-3.1 and RM-4.2 have been revised to 10/19/07.
- 4) Are there any Special Provisions?

**Sheet 6:**

- 1) Round the Water quantity, under Seeding and Mulching, to a whole number.
- 2) The size of the trees should match what is shown in 201.05 of the CMS.

**Sheet 14:**

- 1) All items within a group must be in numerical order.
- 2) The unit for Lin Ft is FT.
- 3) The description for the RPM removed is RAISED PAVEMENT MARKER REMOVED and the extension is 54000.
- 4) The description for 604 38500 is MONUMENT ASSEMBLY.
- 5) The extension is 26500 for Anchor Assembly, Type T.
- 6) Round the quantities for Tied Concrete Block Mat to whole numbers. A type needs to be specified, making sure the extension number matched.
- 7) The unit for Repair Seeding and Mulching is SQ YD.
- 8) The unit for LIME is ACRE.
- 9) Round the Water quantity to a whole number.

**MAD-142-13.08, PID 76536, Stage 3 Compliance General Review Comments**  
**Page 2**

**Sheet 14, continued:**

- 10) The quantity for Erosion Control is the amount of the estimate for this item of work.
- 11) The quantity for Concrete Masonry is rounded to tenths, so the total should 1.0.
- 12) The second 18" Conduit is Type B and the extension is 07400.
- 13) The descriptions for the Underdrains has an S at the end of the description.
- 14) The quantities for underdrains from sheet 26 do not match.
- 15) The extension for Tack Coat is 10000.
- 16) The units for the two Tack Coats is GALLONS.
- 17) Check the quantities for asphalt from sheet 49.
- 18) There is a comma after Pavement Planing in Item 254. The description must match the Item Master exactly.

**Sheet 15:**

- 1) All items within a group must be in numerical order.
- 2) The unit for Lin Ft is FT.
- 3) Combine the RPM items into one, making the description RPM and the extension 00100.
- 4) Combine the Sign Post Reflector items into one, making the description SIGN POST REFLECTOR.
- 5) The quantity for Sign, Flat sheet should be 50.5.
- 6) The following extensions and descriptions should be used for the Pavement markings:
  - 00090 EDGE LINE
  - 00190 LANE LINE
  - 00290 CENTER LINE
  - 00390 CHANNELIZING LINE
  - 00490 STOP LINE
  - 00690 TRANSVERSE/DIAGONAL LINE
  - 01290 LANE ARROW
  - 01408 WORD ON PAVEMENT, 96"
- 7) The description for Item 519 is PATCHING CONCRETE STRUCTURE.
- 8) The description for the Work Zone Attenuator is WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (BIDIRECTIONAL). The extension is 12348.
- 9) Combine the WZ Edge Line quantities and remove the color from the description.
- 10) The description for the WZ Transverse Line is WORK ZONE TRANSVERSE/DIAGONAL LINE and the extension is 25000.



**MAD-142-13.08, PID 76536, Stage 3 Compliance General Review Comments**  
**Page 3**

**Sheet 15:**

11) The description for Barrier Reflector is BARRIER REFLECTOR, TYPE B and the extension is 13300.

12) The description for Object Marker is OBJECT MARKER, ONE WAY.

13) The description for the PCB is PORTABLE CONCRETE BARRIER, 32" and the extension is 40020.

14) Place a quantity LUMP from sheet 7 for Maintaining Traffic.

15) The unit for Field Office is MONTH.

**Sheet 18:**

1) Combine the WZ Edge Line quantities.

**Sheets 20, 22, 24 & 26:**

1) Round Item 601 to a whole number.

**Sheet 26:**

1) Label the Type T Anchor Assembly and provide a station where it begins.

**Sheet 49:**

1) An asphalt surface course is shown on the Typical but there is no quantity.

**Sheet 52:**

1) Round the Sign quantity to tenths.

**Sheet 53:**

1) The item for Channelizing Line is not 614.

2) Consider revising all pavement marking to 644, or at least the auxiliary markings.

3) The sheet number reference should be 54.

4) Check the stations for Lane Arrows and Word on Pavement. Some of these are not shown on sheet 54.

5) This is not the proper use of Island marking.

6) Place a total for each item at the bottom of the sheet.

I have attached a set of marked up plans for your use. If you have any questions, please contact Dennis Sheets at 740 833-8089.

Attachments

c: Project File, Chrono File



# OHIO DEPARTMENT OF TRANSPORTATION

DISTRICT 6 • INTER-OFFICE COMMUNICATION  
OFFICE OF PRODUCTION

**To:** Thomas Makris, PE, Project Coordinator, District 6  
**From:** Dennis Sheets, Staff Specialist, District 6  
**Date:** August 16, 2007  
**Subject:** MAR-4D-0.70, PID 79938, Stage 3 General Review Comments

---

Following are my comments on the subject plan:

**Sheet 1:**

- 1) The Earth Disturbed Areas should be designated as (MAINTENANCE PROJECT) per 1302.11.2 of the L&D Manual.
- 2) The Maintenance of Traffic Endorsement should follow the example TRAFFIC REROUTED per 1302.12.3.
- 3) Add the Approval Date and Sheet Numbers for the Design Exceptions, per 1302.4.
- 4) Standard Drawing MT-97.11 should be revised to 97.12 since this is a Federal Project.
- 5) The date for SS 800 should be 01/18/08 with a 5/7/08 sale date, per the Designer Note for SS 800.
- 6) An item of work using SS 843 is not found in the plan, so it should be removed.
- 7) Add SS 832 dated 4/25/06.

**Sheet 3:**

- 1) A detail showing the estimated width and depth is needed for Item 251.

**Sheet 5:**

- 1) Add a note after the quantity for Item 305 to see sheet 11 & 13 and that the quantities are carried to sheet 10. Otherwise, it is assume the quantity is carried to the General Summary.
- 2) Add a note after the quantity for Item 301 to see sheet 15 & 16 and that the quantities are carried to sheet 10. Otherwise, it is assume the quantity is carried to the General Summary.
- 3) Add a note after the quantity for Item Special – Pipe Cleanout to see sheet 15 & 16 and that the quantities are carried to sheet 10. Otherwise, it is assume the quantity is carried to the General Summary.
- 4) Remove the item reference for Item 832 – Storm Water Pollution Prevention Plan, it is not needed.

## MAR-4D-0.70, PID 79938, Stage 3 General Review Comments

### Page 2

#### Sheet 6:

- 1) Phase 3 for both structures indicate that lane closures may be permitted. Will these require items such as drums and arrow boards? If so, this should be mentioned and additional standard drawings would be needed.
- 2) Maintaining areas under the bridges indicates that closures may be required and the contractor is to provide replacement parking areas, if required. How is a contractor to bid this without knowing what is expected? If closures are needed, alternate parking areas should be set up by working with the City ahead of time.
- 3) Disincentives are established for the closure periods. The type of Innovative Contracting should be specified along with the required table shown with the appropriate Proposal Note.
- 4) A note is needed for Item 614 – Detour Signing to pay for the signing on sheets 7 & 8.

#### Sheet 9:

- 1) Add the quantity LUMP from sheet 5 for Item 201. Also, remove the word SUM from the unit column.
- 2) Remove the Storm Water Pollution Prevention Plan item, it is not needed since this is defined as a maintenance project.
- 3) Spell out the unit GALLON for Items 407.
- 4) Add ITEM 407 14000 TACK COAT FOR INTERMEDIATE COURSE.
- 5) Leave a blank between every 5 items within a group.
- 6) The 646 items have to be bid as an alternate item. Immediately below the 646 items, add duplicate items with the same quantity for each one using the following example:  
646 10101 LANE LINE, (POLYCARB) AS PER PLAN – ALTERNATE BID  
Also add sheet reference 18 to the right.
- 7) Revise the reference to the structure quantities as follows:  
FOR STRUCTURE MAR-4D-0070 ESTIMATED QUANTITIES  
FOR STRUCTURE MAR-95-1436 ESTIMATED QUANTITIES
- 8) The sheet reference for MAR-95-1436 is 32.
- 9) Add the quantity LUMP from sheet 6 for Item 614 11000.
- 10) Add 619 16010 FIELD OFFICE, TYPE B BELOW Item 614 11000. A quantity of MONTH is needed.
- 11) Add ITEM 614 12420 – DETOUR SIGNING with a quantity LUMP carried from sheet 6.

#### Sheet 11:

- 1) Are the existing curb ramps at Center Street ADA compliant, including having truncated domes? If not, they are required to be replaced.

## **MAR-4D-0.70, PID 79938, Stage 3 General Review Comments**

### **Page 3**

#### **Sheet 18:**

- 1) Add AS PER PLAN to the descriptions of the 646 items.
- 2) Add CENTER LINE to the table where Double Solid Line is shown.

#### **Sheet 22:**

- 1) It appears the sheet reference in the note for the Elastomeric Bearing should be 8/9.
- 2) A note is needed for Item 848 – Micro-Silica Modified Concrete Overlay Using Hydrodemolition (1 1/4" Thick), as per plan.
- 3) SS 843 is listed, but there is no pay item used in the plan.
- 4) Remove 530 from the descriptions for the Item Special – Beam Repair and Cleaning Debris.

#### **Sheet 23:**

- 1) The units need to be spelled out as: SQ YD, SQ FT, and CU YD.
- 2) Add sheet reference 4 to Item 516 43101.
- 3) Add a comma after DRAINAGE in Item 518.
- 4) Remove the word SPECIAL from the descriptions for Structure, Misc.: Beam Repair and Cleaning Debris. Place SPECIAL in the Item Column and the extension is 53000200. Add a comma after the word STRUCTURE.
- 5) An item and quantity is needed for MICRO-SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS) MATERIAL ONLY.
- 6) A blank line is needed between every 5 items.
- 7) A note is needed for Item 848 10001.

#### **Sheet 26:**

- 1) Remove 530 from the description for the Item Special – Structure, Misc.: Beam Repair.

#### **Sheet 31:**

- 1) SS 843 is listed, but there is no pay item used in the plan.
- 2) Remove 530 from the description for the Item Special – Structure, Misc.: Cleaning Debris.

#### **Sheet 32:**

- 1) The units need to be spelled out as: SQ YD, SQ FT, and CU YD.
- 2) Remove the word SPECIAL from the description for Structure, Misc.: Beam Repair. Place SPECIAL in the Item Column and the extension is 53000200. Add a comma after the word STRUCTURE.
- 3) Remove the word SPECIAL from the description for Vandal Protection Fence. Place SPECIAL in the Item Column and the extension is 60739910. Also add sheet reference 15/15 for this item.

**MAR-4D-0.70, PID 79938, Stage 3 General Review Comments**

**Page 4**

**Sheet 32, continued:**

4) An item and quantity is needed for MICRO-SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS) MATERIAL ONLY.

6) A blank line is needed between every 5 items.

I have attached a marked up set of plans for your use. If you have any questions, please contact Dennis Sheets at 740 833-8089.

Attachments

c: Project File, Chrono File

**INTEROFFICE COMMUNICATION**

TO: THOMAS MAKRIS  
FROM: FAY TAYLOR ~~71~~  
DATE: August 9, 2007  
RE: MAR-4D-0.70 PID 79938 SJN 466010  
Stage 3 Traffic Control Review  
Plans by Palmer Engineering

Sheet:

9 Where are the pay items for the Epoxy Alternates?

646 / 10701 / Curb Marking---Delete "Type 1."

17,18 Loop Detector Tie Ins are still needed at the pull boxes. Although lead-in is called out, it does not appear to actually be used or sued correctly in the plan. See TEM Fig. 498-23, etc.

18 584+30 to 584+60 Lt.---If there is only 30', where does this 150' of loop lead-in go from and to?

Curb marking in subsummary---Add yellow.

Add stationing on plan view at 114+50, 115+07.46, 121+66.63, and 122+00.

General:

See TEM 341-2 for pavement marking requirements on plan.

Nothing in these comments is to be construed as authorization for extra work.

Let me know if anything else is needed.

C: Project file  
Chrono file



# 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:

Fay Taylor

Date:

8/9/2007

**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](mailto: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

CC: Bruce Birch, Herb Ligocki, Rich Behrendt, Project File, Chrono File



# 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: \_\_\_\_\_ 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 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](mailto: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

CC: Bruce Birch, Herb Ligocki, Rich Behrendt, Project File, Chrono File





# OHIO DEPARTMENT OF TRANSPORTATION

DISTRICT 6 • INTER-OFFICE COMMUNICATION  
OFFICE OF PRODUCTION

To: Thomas G. Makris, Project Manager

From: Mark Katona, Production MOT Reviewer

Date: July 11, 2007

Subject: MAR-4D-0.70 Stage 2 MOT Review

P.I.D. : 79938

## **MOT Notes**

### **Sheet 6**

- How were amounts arrived at for disincentives?
- Bring railroad note to the MOT note sheet
- Add TEM not 642-19
- How long is the closure?
- Where is the sequence of construction?
- Innovative contracting needed – either A+B or incentive/disincentive.

## **MOT Detour**

### **Sheet 7**

- Remove some of the B signs
- Part of the roadway for Columbia St. is marked as closed when it is actually open.
- These two detours are crowded together on one sheet. Place each one on its own sheet in a larger scale.

If you have any questions, please contact me at (740) 833-8355.

c: T. Slack  
enc.



# PLAN REVIEW FORM

## ODOT DISTRICT 6

DATE: Wednesday, April 25, 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	Need ROW Certification
Fay Taylor	ODOT-D6	Traffic Control
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: Stage 2 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: **Monday, May 28, 2007.**

Signed: \_\_\_\_\_

Date: \_\_\_\_\_

4/27/07

**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](mailto: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: Herb Ligocki, Project File, Chrono File



April 18, 2007

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

Attn: Mr. Tom Makris

**RE: Stage 2 Plan Submission**  
**MAR-4D-0.70**  
**PID # 79938**

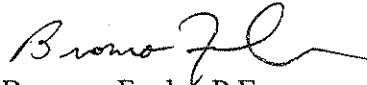
Dear Mr. Makris,

Attached please find plans and supporting documents related to the Stage 2 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 2 Plans
2. 1 set of unbound half-size Stage 2 Plans
3. 2 copies of the Stage 2 Cost Estimate
4. Narrative of design decisions and issues made/encountered during Stage 2 plan preparation
5. 1 copy of transmittal letters sent to affected utilities
6. Disposition of Stage 1 comments
7. Railroad correspondence

The design decisions narrative is meant to inform the District of choices made for certain repairs. We request that the District review these decisions and confirm their acceptance of them.

Respectfully,

  
Bronson Funke, P.E.  
Project Manager

c: File

RECEIVED

APR 20 2007

Production Dept.

## DISPOSITION OF STAGE 1 REVIEW COMMENTS

**Brian Tatman – Environmental**  
*No Review Comments*

**John Adams – Hydraulics**

MAR-4D-0.70

1. *It was never my intention to add storm sewer to this job. Based on the field visit, it appeared that all of the scuppers were plugged and the storm water currently flows to the existing CB's located at station 584+63 on the south end and station 597+63 on the north end. Will the spread criteria be met if we were to continue this? We could replace the existing cb's with the new CB 3's to limit bypass flows since we are replacing the concrete median in all areas.*

The CB-3A's were provided at the end of the bridge to limit the flow to the existing catch basins at the end of the roadway approach, since any bypass flow would proceed uncontrolled into the intersection. The added CB-3A's were not added for control of spread, but rather for capacity concerns as stated. We checked the drainage computations for eliminating the proposed CB's at the end of the bridge and upgrading the existing CB's as CB-3's as suggested and offer the following:

**Catch Basins at End of Roadway**

		Spread from Curb Line (Ft.)	% Intercepted	Bypass Flow (cfs)
Scuppers Removed, Use Existing CB-3A's	South	7.0	53%	0.43
	North	5.7	56%	0.38
Scuppers Removed, Upgrade Existing CB-3A's to CB-3	South	7.0	70%	0.27
	North	5.7	67%	0.29
Scuppers Removed, Use Existing CB-3A's and Add Proposed CB-3A's just off bridge	South	5.6	62%	0.19
	North	4.4	67%	0.15
Existing Conditions, with functioning Scuppers	South	5.1	69%	0.12
	North	3.9	79%	0.07

The computations show that upgrading the existing CB-3, will provide for more interception %, however will still increase the amount bypass flow into the intersections over the existing conditions (with functioning scuppers) and represents an increase over what is proposed in the Stage 1 Plans.

Based on the District's comment and further investigation by us, we have decided to retain the existing scuppers on the bridge and have them cleaned. It will therefore not be necessary to add the catch basins originally proposed in Stage 1.

MAR-95-14.36

1. *I concur with the consultant regarding eliminating the scupper drains on the high side of the super. Do we have any clean out ports along the scuppers proposed to remain prior to discharging into the storm main? If, not we should provide them in order to help maintain the scuppers in the future.*

Cleanout ports will be provided in the structure plans.

**Mark Katona – Conceptual Maintenance of Traffic**

*Your statement on page 2 of your document dated January 11, 2007 states, “We request the district, as part of the Stage 1 plan, review, to consider the possibility of road closures to perform the scoped work.”*

- *If You want us to review road closures as part of the Stage 1 review, you must provide alternatives, such as:*
  - *What roadways the detour will require*
  - *The comparative costs of using a detour vs. part width construction*
  - *Maps of the detour route(s), including signs*
  - *If a local detour is provided (if needed), agreements from all local governments affected (see attached files for what is required of the consultant.)*
  - *Plan sheets for part width construction*

The documents referenced in the comment have been submitted, and the preparation of the Stage 2 plans will use a detour. At the time of submission of the Stage 2 plans, we do not believe the City has signed off on the Detour Justification. We will follow up with the City once they have received Stage 2 plans to request they finalize the request.

**Jim Bischoff – City of Marion**  
*No review Comments*

**Dennis Sheets – Overall**

*Sheet 1:*

1. Add MAR-95-14.36 to the Project Designation. This will affect the lower right of all sheets
2. PROSPECT is misspelled in the Project Description

*Sheet 2:*

1. For SR-4D, add SLM 0.70 (SR-4D) and the federal Project flag to the Begin Project Flag.
2. For SR-4D, add the SLM 0.55(SR-4D) to the suspend project flag
3. For SR-4D, revise Suspend Work to End Work
4. For SR-95, Revise Resume Work to Begin Work
5. For SR-95, add the SLM 14.36 (SR-95) to the Resume Project Flag
6. For SR-95, add the SLM 14.47 (SR-95) and the Federal Project Flag to the Begin Project Flag

*Sheet 3:*

1. Add SR-4D to the headings for the Typical Sections.

*Sheet 4:*

1. Add SR-95 to the headings for the typical Sections.

*Sheet PP1:*

1. Add SLM 0.70 and the Federal Project Flag to the Begin Project Flag

*Sheet PP3:*

1. Add SLM 0.55 and the Federal Project Flag to the Suspend Project Flag
2. Revise the Suspend Project Flag to End Work.

*Sheet PP4:*

1. Revise the Resume work Flag to Begin Work.

*Sheet PP5:*

1. Add LM 14.36 to the Resume Project Flag

*Sheet PP6:*

1. Add SLM 14.47 and the Federal Project Flag to the End Project Flag

Will Comply with all comments

**Qi Unterreiner – Pavement/Geotech**

*Provide Item 3” Asphalt Concrete Surface Course, Type 1H (Use 2 Equal lifts), and remove intermediate course. Use Type 1H mix due to average grades >5% and medium traffic.*

Will comply. Length of feathering will be changed to 45'-0". Tack Coat for intermediate course will be used between the two equal lifts.

**John Maynard** – No review Comments

**Fay Taylor – Traffic**

Sheet 5:

1. *Since work is being done over the railroad lines, won't there need to be some RR involvement noted here?*

Railroad involvement is noted on Title Page. General notes have been added to the bridge notes with specific coordination items to be followed during construction.

2. *The City of Marion needs to be listed for their traffic signals.*

Will comply. The contact info will be added to the general notes

TC1:

1. *Pavement marking Legend – Make all paint 644 Thermo for Marion*

**Please advise.** 646 is used on the bridge decks per the PES, and curb markings need to be paint. All other markings are 644.

2. *STA 589+00 Lt. – The existing signs under JCT are 95 (not 49) and 309 (not 329).*

Will Comply

3. *Painted lane arrows are not recommended except possibly the one NB arrow.*

We recommend that the arrows be painted as shown due the non-standard layout of the intersection.

4. *There are detector loops for the traffic signal and interconnect for the Signal System. See attached Sheets.*

Will Comply

TC2

1. *Sign, Flat Sheet – Bridge ID tags – It looks like these will go on the bridge parapets for this project.*

The note included the post mounted bridge ID signs since the signs for MAR-95 can be ground mounted.

**Tom Makris**

*Mar-4D-0.70*

*Site Plan (S1)*

1. *Dimension Approach slab pavement width for the rear and forward sides of the Bridge.*

Will Comply

2. *Indicate the profile gradient percent and the vertical curve data, along the profile view.*

Will Comply

3. *In the proposed structure under type, refer to page 2 for work treatments.*

Will Comply

4. *Where is the survey data for benchmarks 1-4?*

The survey data for the benchmarks will be added to the sheet.

5. *Indicate all Lateral Clearances in the Profile view*

Will Comply

*Structure General Notes (S4)*

1. *Add SS 848. date 4-15-05 to the supplemental Specifications Heading*

Will Comply

*Construction Phase Details (S5)*

1. *Is the vandal fence justified according to the BDM, Sec 3.5.2 grading system. Disposition states "still waiting" for Prospect Street MAR-4D-0.70, please elaborate.*

No evidence has been provided to indicate there is a history of falling objects, therefore the vandal protection fence is not justified and has been removed from the plans.

*Abutment Patching Details (S6)*

1. *Provide approximate Dimensions to a reference point where needed*

Will Comply



*Transverse Section (S8)*

1. *Extend limits of sealing 6", to the underside of the existing box beam.*

Will Comply

*MAR-95-1436*

*Site Plan (S10)*

1. *Dimension Approach slab pavement width for the rear and forward sides of the Bridge.*

Will Comply

2. *Indicate the Profile Gradient percent and the vertical curve data along the profile view.*

Will Comply

3. *In the proposed structure under type, refer to page 2 for work Treatments.*

Will Comply

4. *Where is the survey data for benchmarks 1-4?*

The benchmark data has been added.

*Structure General Notes (S13)*

1. *Add SS 848, date 4-15-05 to the supplemental Specifications Heading*

Will Comply

## **DESIGN DECISION NARRATIVE**

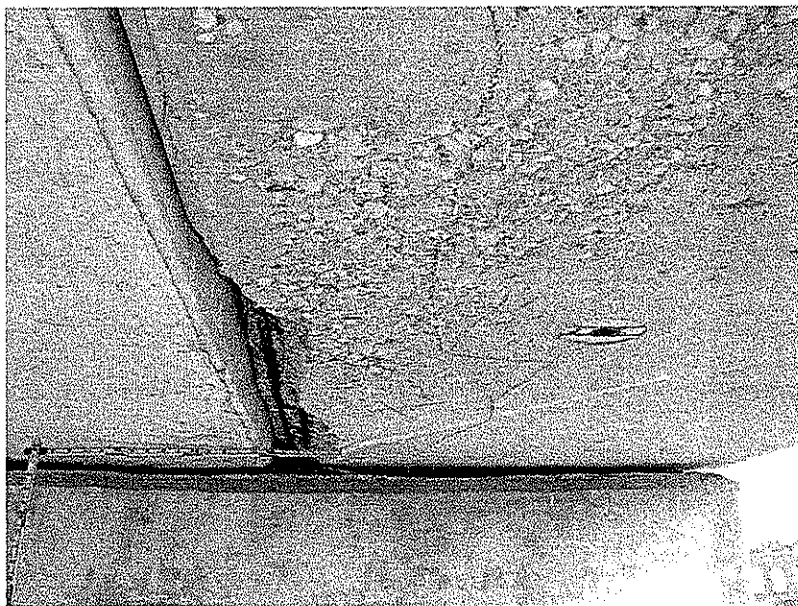
Project MAR-4D-0.70

Bridge No. MAR-4D-0070

Bridge No. MAR-95-1436

### **Prospect Street (MAR-4D-0070)**

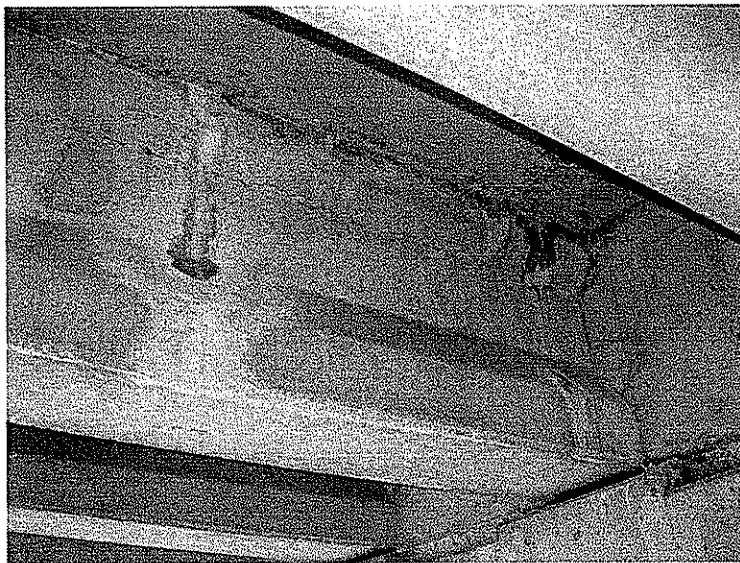
- 1.) Vandal Protection Fence on the Prospect Street bridge was originally specified in Stage 1 based on the assumption that there was a history of falling objects. We requested clarification of this from the City of Marion but did not receive a reply. Since there are no sidewalks on the bridge and little, if any, pedestrian traffic, we have determined that VPF is not warranted.
- 2.) Someone (presumably the City of Marion) has painted No Parking and other signs on the substructure. These signs will likely be damaged during concrete repair. We have directed the contractor in the Item 519 Patching note to restore any signs damaged during construction.
- 3.) The previous rehabilitation project on this bridge replaced the joints with strip seal expansion joints. The previous plans are unclear as to what type of seal was used. We have proposed to replace these joints with new strip seals. We have specified two options for the manufacturer of the strip seal but it will be up to the field engineer to determine the appropriate replacement seal. We will explore this further in Stage 3 preparation but it appears the direction we have shown will be our only option.
- 5.) There are a few areas on the existing concrete box beams where spalling has exposed the prestressing tendons. Complications with the locations of the repairs (around utility conduit and on underside of deck – see pictures) have led us to specify cleaning of the patch and sealing with epoxy urethane. This type of repair is similar to what has been done in other Districts. We are concerned that any concrete patching of the beams could present a future hazard to pedestrians. Is this repair method acceptable to the District? If so, please confirm that the method of payment shown in the notes is appropriate.



- 6.) Stage 1 plans had proposed plugging of the scuppers and directing runoff to new catch basins at the end of the bridge. Based on comments from the District and further investigation, we have determined that the best course of action will be to retain the scuppers and just clean the downspouts. Please confirm that the method of payment shown in the notes is appropriate.

### **Columbia Street (MAR-95-1436)**

- 1.) There is a crack in one of the concrete I-beams in Span 3 near Pier 3 (see below). We are proposing to seal this crack with epoxy injection. Please confirm that this is acceptable and that the method of payment for the repair is appropriate.



- 2.) The original plans show a reinforced elastomeric expansion joint seal at Pier 5. At some point (1985?) this joint was retrofitted. Based only on visual inspection (no plans are available), we have assumed it is a strip seal gland and extrusions. For Stage 2 we specified the replacement of the strip seal gland in the scope of work and located it on the general plan. Similar to Prospect Street, it will be up to the project engineer to ensure the appropriate replacement seal is used. We will investigate further during Stage 3 plan preparation.
- 3.) There are areas of spalling on the pier diaphragms. We have not directly specified patches to the diaphragms but have included sufficient quantity to be used as directed by the engineer to make the repairs.

- 4.) We are uncertain of the condition of the underground 8" storm sewer connected to the downspouts. We know some of them are damaged just below the pier column. We have included 50' of 8" Conduit Type B to replace any that is damaged and put in a quantity for cleaning the undamaged portion (roadway quantity).
- 5.) Some of the downspouts are cracked at the welds. We decided to replace these pipes instead of fixing them. This can be left up to the contractor but we included a quantity for replacement on Piers 6-8.

### **Both Bridges**

Datum Change: The Stage 2 plans specified datum conversions based on calculations by DF 4/2/07. The actual conversion from 29 NAVD 88 is around 0.43 ft but this doesn't correspond with the original plans. The 4D roadway general notes specify the USGS Datum.



April 4, 2007

Mr. Bruce Birch, P.E.  
District 6 Railroad Coordinator  
Ohio Department of Transportation  
400 East William Street  
Delaware, Ohio 43015

**SUBJECT: Marion, Marion County, Ohio**  
**Proposed Bridge Rehabilitation – Columbia Street over CSXT**  
**Agency Reference: MAR-4D-0.70**  
**MAR-95-1436**  
**PID No. 79938**  
**AAR/DOT No.: 228 719H**  
**CSXT Reference: Milepost CD-45.20 / Columbus Subdivision**  
**Appalachian Division / Central Region**  
**OP No.: OH0591**

Dear Mr. Birch:

URS Corporation (URS), on behalf of CSX Transportation, Inc. (CSXT), has conducted engineering review of the revised Stage 1 submittal (stamped January 12, 2007) for the subject project as transmitted via your letter of February 15, 2007.

No exceptions taken to the scope of the project work. However, we respectfully request that the following notes be developed into a **GENERAL NOTES – CSXT RAILROAD** section of the project plans:

- **DECK HYDRODEMOLITION IN RAILROAD SPAN (BETWEEN PIERS #3 & #4) WILL REQUIRE FULL-TIME CSXT RAILROAD FLAGGING**
- **SEALING OF CONCRETE PARAPETS IN RAILROAD SPANS (BETWEEN PIERS #3 & #4) WILL REQUIRE FULL-TIME RAILROAD FLAGGING**

As previously advised, this CSXT Public Project Group review does not address real estate issues or installation/relocation of overhead or underground utilities (other than CSXT's own facilities). If any of these situations apply to your project, you are directed to contact Mr. Jim Shircliff, CSX Highway Projects Specialist (904.633.4597) or Mr. Charlie Myers, CSX Contract Administration Specialist (904.633.1503) respectively. Please ensure that any private utilities that may be affected are notified of this requirement. Note: Mr. Myers has assumed handling of projects in the State of Ohio from Ms. Nancy Reynolds.

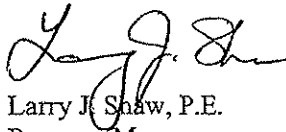
URS Corporation  
One Indiana Square, Suite 2100  
Indianapolis, IN 46204  
Tel: 317-532-5481  
Fax: 317-532-5499  
Larry\_Shaw@urscorp.com

Providing Engineering Services for 

URS will prepare the railroad Force Account Estimate for this project that may consist of preliminary and construction engineering expenses, track, signal, and communication facility relocation or elimination, general contingencies, and accounting expenses after railroad concerns, modifications and the revised Stage submittals are approved.

Please submit five (5) sets (11"x17") of subsequent Stage submittal plans that address the railroad concerns presented herein to this office for our review and handling. Project specific questions and questions relative the comments contained herein should be directed to URS Project Manager Steve Van Slyke at 513.419.3509. For general or administrative questions, feel free to contact me.

Sincerely,



Larry J. Shaw, P.E.  
Program Manager  
URS Corporation

Copy: Rich Behrendt – ODOT Central Office



PID 79938  
MAR-4D-0,70

December 13, 2006

Mr. Bruce Birch, P.E.  
District 6 Railroad Coordinator  
Ohio Department of Transportation  
400 East William Street  
Delaware, Ohio 43015

**SUBJECT:** Marion, Marion County, Ohio  
Proposed Bridge Rehabilitation – Prospect Street over CSXT  
Agency Reference: MAR-4D-0.70  
MAR-4D-0070  
PID No. 79938  
AAR/DOT Nos.: 262 081A & 513 585V  
CSXT Reference: Milepost QI-100.85 Mt. Victory Subdivision  
Western Division / Western Region  
OP No.: OH0592

Dear Mr. Birch:

URS Corporation (URS), on behalf of CSX Transportation, Inc. (CSXT), has performed a site visit and conducted engineering review of the Stage 1 submittal for the subject project as transmitted via your letter of November 7, 2006.

No exception is taken to the scope of the project work. However, it is unclear what if any construction tasks may influence or provide a hazard to train movements. Field review of these plans revealed a potential for pier cap, stem, and curbing repair may be designed in the piers adjacent to, between, and in the railroad rights-of-way. In addition, it is not entirely clear if deck hydrodemolition will be accomplished in the railroad spans. Therefore, we request that the following notes be developed into a **GENERAL NOTES – RAILROAD** section of the project plans:

- REPAIRS OF DETERIORATED CONCRETE ON PIERS #5, #6, #7, #8, & #9 WILL REQUIRE FULL-TIME RAILROAD FLAGGING
- DECK HYDRODEMOLITION IN RAILROAD SPANS (BETWEEN PIERS #5 & #6 AND #8 & #9) WILL REQUIRE FULL-TIME RAILROAD FLAGGING

URS will prepare the railroad Force Account Estimate for this project that may consist of preliminary and construction engineering expenses, track, signal, and communication facility relocation or elimination, general contingencies, and accounting expenses after railroad concerns, modifications and the revised Stage submittals are approved.

URS Corporation  
One Indiana Square, Suite 2100  
Indianapolis, IN 46204  
Tel: 317-532-5481  
Fax: 317-532-5499  
Larry\_Shaw@urscorp.com

Providing Engineering Services for 



December 13 2006

Please submit five (5) sets (11"x17") of subsequent Stage submittal plans that address the railroad concerns presented herein to this office for our review and handling. Project specific questions and questions relative the comments contained herein should be directed to URS Project Manager Steve Van Slyke at 513.419.3509. For general or administrative questions, feel free to contact me.

Sincerely,



Larry J. Shaw, P.E.  
Program Manager  
URS Corporation

Copy: Rich Behrendt – ODOT Central Office



April 19, 2007

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

Attn: Ms. Tiffany Fritchley, PE

**RE: Stage 2 Plan Submission**  
**MAR-4D-0.70**  
**PID # 79938**

Dear Ms. Fritchely,

Attached please find two sets of Stage 2 (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 June 4, 2007. . If no further comment is necessary, please reply with a statement to that affect at [bfunke@palmernet.com](mailto:bfunke@palmernet.com).

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



April 19, 2007

Ohio American Water  
5481 Buenos Aires Boulevard  
Westerville, Ohio 43081

Attn: Mr. Ross Archbold

**RE: Stage 2 Plan Submission**  
**MAR-4D-0.70**  
**PID # 79938**

Dear Mr. Archbold,

Attached please find two sets of Stage 2 (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 June 4, 2007. . If no further comment is necessary, please reply with a statement to that affect at [bfunke@palmernet.com](mailto:bfunke@palmernet.com).

Thank you and 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



April 19, 2007

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

Attn: Mr. Terry Allen

**RE: Stage 2 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 2 (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 June 4, 2007. If no further comments are necessary, you may reply directly to me by email at [bfunke@palmernet.com](mailto: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



April 19, 2007

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

Attn: Mr. Jim Bischoff, PE

**RE: Stage 2 Plan Submission**  
**MAR-4D-0.70**  
**PID # 79938**

Dear Mr. Bischoff

Attached please find two sets of Stage 2 (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 June 4, 2007. If no further comment is necessary, please reply with a statement to that affect at [bfunke@palmernet.com](mailto:bfunke@palmernet.com).

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

Respectfully,

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

Bronson Funke, P.E.  
Project Manager

c: File



April 19, 2007

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

Attn: Ms. Dawn Hicks

**RE: Stage 2 Plan Submission**  
**MAR-4D-0.70**  
**PID # 79938**

Dear Ms. Hicks

Attached please find two sets of Stage 2 (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 June 4, 2007. If no further comment is necessary, please reply with a statement to that affect at [bfunke@palmernet.com](mailto: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 that reads 'Bronson Funke'.

Bronson Funke, P.E.  
Project Manager

c: File



April 19, 2007

Verizon  
550 Leader Street  
Marion, Ohio 43302

Attn: Mr. William Muether

**RE: Stage 2 Plan Submission**  
**MAR-4D-0.70**  
**PID # 79938**

Dear Mr. Muether

Attached please find two sets of Stage 2 (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 June 4, 2007. If no further comment is necessary, please reply with a statement to that affect at [bfunke@palmernet.com](mailto:bfunke@palmernet.com).

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

## Estimate MAR-4D-0.70

Estimated Cost: \$990,802.53

Contingency: 18.00%

**Estimated Total: \$1,169,146.99**

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

Letting Date: 04/19/07

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 2

*Prepared by Dan Ficker (Roadway Only)*



<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					

Regression price 202E23500	Active: Y	Unit Price: \$10.19982
----------------------------	-----------	------------------------

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					

Regression price 202E35100	Active: Y	Unit Price: \$12.92225
----------------------------	-----------	------------------------

0008	202E70100	230.000	FT	\$19.17373	\$4,409.96
SPECIAL - PIPE CLEANOUT 12" and 8" DOWNSPOUT CONNECTIONS					

Regression price 202E70100	Active: Y	Unit Price: \$19.17373
----------------------------	-----------	------------------------

0009	609E54000	33.000	SY	\$50.00000	\$1,650.00
6" CONCRETE TRAFFIC ISLAND					

**Total for Group 0100: \$9,815.22**

**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	25.000	FT	\$12.84836	\$321.21
8" CONDUIT, TYPE B					

Regression price 603E01800	Active: Y	Unit Price: \$12.84836
----------------------------	-----------	------------------------

0013	603E04400	24.000	FT	\$76.55619	\$1,837.35
12" CONDUIT, TYPE B					

Regression price 603E04400	Active: Y	Unit Price: \$76.55619
----------------------------	-----------	------------------------

0014	604E00400	4.000	EACH	\$2,416.32855	\$9,665.31
CATCH BASIN, NO. 3					

Regression price 604E00400	Active: Y	Unit Price: \$2,416.32855
----------------------------	-----------	---------------------------

0016	604E09000	2.000	EACH	\$470.81487	\$941.63
CATCH BASIN ADJUSTED TO GRADE					

Regression price 604E09000	Active: Y	Unit Price: \$470.81487
----------------------------	-----------	-------------------------

0018	604E34500	1.000	EACH	\$540.11109	\$540.11
MANHOLE ADJUSTED TO GRADE					

Regression price 604E34500	Active: Y	Unit Price: \$540.11109
----------------------------	-----------	-------------------------

0019	604E34500	3.000	EACH	\$750.00000	\$2,250.00
MANHOLE ADJUSTED TO GRADE (SANITARY)					

<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 0300: \$15,555.61

Group 0400: Pavement

0020	251E01000	105.000	SY	\$93.89938	\$9,859.43
PARTIAL DEPTH PAVEMENT REPAIR					

Regression price 251E01000	Active: Y	Unit Price: \$93.89938
----------------------------	-----------	------------------------

0021	254E01000	403.000	SY	\$7.55309	\$3,043.90
PAVEMENT PLANING, ASPHALT CONCRETE					

Regression price 254E01000	Active: Y	Unit Price: \$7.55309
----------------------------	-----------	-----------------------

0022	302E46000	4.000	CY	\$70.00000	\$280.00
ASPHALT CONCRETE BASE, PG64-22 FOR PIPE RESTORATION					

0023	305E13000	4.000	SY	\$85.00000	\$340.00
9" CONCRETE BASE FOR PIPE RESTORATION - PROSPECT					

0024	407E10000	30.000	GAL	\$1.38720	\$41.62
TACK COAT					

Regression price 407E10000	Active: Y	Unit Price: \$1.38720
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0025	407E13900	133.000	GAL	\$1.20106	\$159.74
TACK COAT, 702.13					

Regression price 407E13900	Active: Y	Unit Price: \$1.20106
----------------------------	-----------	-----------------------

0027	448E47020	151.000	CY	\$155.27428	\$23,446.42
ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22					

Regression price 448E47020	Active: Y	Unit Price: \$155.27428
----------------------------	-----------	-------------------------

Total for Group 0400: \$37,171.11

Group 0800: Traffic Control

0028	642E00190	0.110	MILE	\$719.23035	\$79.12
LANE LINE					

Average price 642E00190	Active: Y	Unit Price: \$719.23035
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0029	642E00290	0.029	MILE	\$1,447.07076	\$41.97
CENTER LINE					

Average price 642E00290	Active: Y	Unit Price: \$1,447.07076
-------------------------	-----------	---------------------------

0030	642E00790	240.000	FT	\$4.00000	\$960.00
CURB MARKING					

0031	644E00400	75.000	FT	\$1.98309	\$148.73
CHANNELIZING LINE					

Regression price 644E00400	Active: Y	Unit Price: \$1.98309
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0032	644E00500	33.000	FT	\$8.68849	\$286.72
STOP LINE					

Regression price 644E00500	Active: Y	Unit Price: \$8.68849
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0033	644E00600	145.000	FT	\$3.27055	\$474.23
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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>					

CROSSWALK LINE

Regression price 644E00600		Active: Y		Unit Price: \$3.27055	
0034	644E01300	4.000	EACH	\$145.17131	\$580.69

LANE ARROW

Regression price 644E01300		Active: Y		Unit Price: \$145.17131	
0035	646E10100	0.273	MILE	\$2,459.53931	\$671.45

LANE LINE

Average price 646E10100		Active: Y		Unit Price: \$2,459.53931	
0036	646E10200	0.113	MILE	\$18,090.93611	\$2,044.28

CENTER LINE

Average price 646E10200		Active: Y		Unit Price: \$18,090.93611	
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Total for Group 0800: \$5,287.19

Group 0900: Traffic Signals

0037	632E26500	3.000	EACH	\$1,012.24559	\$3,036.74
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DETECTOR LOOP

Regression price 632E26500		Active: Y		Unit Price: \$1,012.24559	
0038	632E65200	300.000	FT	\$1.50000	\$450.00

LOOP DETECTOR LEAD-IN CABLE

Total for Group 0900: \$3,486.74

Group 1200: Maintenance of Traffic

0039	614E11100	25.000	HOUR	\$56.06034	\$1,401.51
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LAW ENFORCEMENT OFFICER WITH PATROL CAR

Regression price 614E11100		Active: Y		Unit Price: \$56.06034	
0040	614E22000	1.000	MILE	\$852.27116	\$852.27

WORK ZONE EDGE LINE, CLASS I

Average price 614E22000		Active: Y		Unit Price: \$852.27116	
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Total for Group 1200: \$2,253.78

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

0041	202E23501	156.000	SY	\$14.00000	\$2,184.00
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WEARING COURSE REMOVED, AS PER PLAN

0043	512E10100	2,235.000	SY	\$11.10409	\$24,817.64
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SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

Regression price 512E10100		Active: Y		Unit Price: \$11.10409	
0046	516E01301	172.000	FT	\$39.03565	\$6,714.13

ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS, AS PER PLAN

Regression price 516E01301		Active: Y		Unit Price: \$39.03565	
0048	516E43101	1.000	EACH	\$500.00000	\$500.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	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				
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				
Regression price 848E10001		Active: Y		Unit Price: \$42.48482	
0057	848E20000	2,483.000	SY	\$22.73319	\$56,446.51
	SURFACE PREPARATION USING HYDRODEMOLITION				
Regression price 848E20000		Active: Y		Unit Price: \$22.73319	
0058	848E50000	87.000	SY	\$57.90698	\$5,037.91
	HAND CHIPPING				
Regression price 848E50000		Active: Y		Unit Price: \$57.90698	
0059	848E50100	1.000	LS	\$0.00000	\$0.00
	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				
Average price 848E50320		Active: Y		Unit Price: \$8.39109	
0062	848E50340	869.000	SY	\$8.00000	\$6,952.00
	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY				
0091	518E63300	1.000	LS	\$2,500.00000	\$2,500.00
	STRUCTURE DRAINAGE, MISC.:				
0092	530E00200	1.000	LS	\$1,000.00000	\$1,000.00
	SPECIAL - STRUCTURE, MISC.:				
<b>Total for Group 1400: \$309,819.74</b>					

**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	\$10.74326	\$16,329.76
	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)				
Regression price 512E10100		Active: Y		Unit Price: \$10.74326	
0071	518E63300	1.000	LS	\$10,000.00000	\$10,000.00
	STRUCTURE DRAINAGE, MISC.:				
0072	519E11101	3,228.000	SF	\$20.00000	\$64,560.00
	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				

Line #	Item Number	Quantity	Units	Unit Price	Extension
<div style="border: 1px solid black; padding: 2px;">                     Regression price 848E20000                      Active: Y                      Unit Price: \$22.73319                 </div>					
0079	848E50000 HAND CHIPPING	160.000	SY	\$57.90698	\$9,265.12
<div style="border: 1px solid black; padding: 2px;">                     Regression price 848E50000                      Active: Y                      Unit Price: \$57.90698                 </div>					
0080	848E50100 TEST SLAB	1.000	LS	\$5,000.00000	\$5,000.00
0081	848E50200 FULL-DEPTH REPAIR	22.000	CY	\$300.00000	\$6,600.00
0082	848E50320 EXISTING CONCRETE OVERLAY REMOVED	2,645.000	SY	\$8.39000	\$22,191.55
0083	848E50340 REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	1,322.000	SY	\$8.00000	\$10,576.00
0093	518E43300 6" PIPE DOWNSPOUT, INCLUDING SPECIALS	84.000	FT	\$110.00000	\$9,240.00
0094	518E63300 STRUCTURE DRAINAGE, MISC.:	1.000	LS	\$2,500.00000	\$2,500.00
0095	512E10600 CONCRETE REPAIR BY EPOXY INJECTION	12.000	FT	\$100.00000	\$1,200.00
0096	516E01301 ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS, AS PER PLAN	40.000	FT	\$45.74744	\$1,829.90
<div style="border: 1px solid black; padding: 2px;">                     Average price 516E01301                      Active: Y                      Unit Price: \$45.74744                 </div>					
0097	530E00200 SPECIAL - STRUCTURE, MISC.:	1.000	LS	\$1,000.00000	\$1,000.00

Total for Group 1401: \$397,679.38

**Group 9000: Incidentals**

0084	100E99000 SPECIAL - PREMIUM ON RAILROAD'S PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	1.000	LS	\$10,000.00000	\$10,000.00
0085	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND	1.000	LS	\$8,256.68770	\$8,256.69
<div style="border: 1px solid black; padding: 2px;">                     Reference Price BOND1                      Active: Y                      Unit Price: \$8,256.68770                      LESS THAN 1 MILLION, USE 1%                 </div>					
0086	614E11000 MAINTAINING TRAFFIC	1.000	LS	\$24,770.06310	\$24,770.06
<div style="border: 1px solid black; padding: 2px;">                     Reference Price 3%                      Active: Y                      Unit Price: \$24,770.06310                      ** Based on previous projects, Maintaining Traffic in rural areas is about 1% of the total construction budget cost, etc.                 </div>					
0087	619E16000 FIELD OFFICE, TYPE A	8.000	MNTH	\$1,200.00000	\$9,600.00
0088	623E10000 CONSTRUCTION LAYOUT STAKES	1.000	LS	\$8,256.68770	\$8,256.69
<div style="border: 1px solid black; padding: 2px;">                     Reference Price 1%                      Active: Y                      Unit Price: \$8,256.68770                      * If total construction budget cost of projects is less than \$1 million; use 1% total construction budget cost                 </div>					
0089	624E10000 MOBILIZATION	1.000	LS	\$20,000.00000	\$20,000.00
0090	990E10020 ESTIMATED COST OF ENGINEERING, SUPERINTENDENCE AND CONTINGENCIES 15%	1.000	LS	\$123,850.31550	\$123,850.32



# PLAN REVIEW FORM

## ODOT DISTRICT 6

DATE: Wednesday, April 25, 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	Need ROW Certification
Fay Taylor	ODOT-D6	Traffic Control
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: Stage 2 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: Monday, May 28, 2007.

Signed: Fay Taylor

Date: 5/11/2007

COMMENTS: All ODOT-D6 Reviewers, Please reference the PDP to determine if additional reviews need be performed by Central Office or External Agencies. All Reviewers have been provided with a set of the ge 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.

Sincerely,

*Thomas G. Makris*

G. Makris, P.E.  
Manager  
District 6

C: Herb Ligocki, Project File, Chrono File

INTEROFFICE COMMUNICATION

TO: THOMAS MAKRIS  
FROM: FAY TAYLOR 71  
DATE: May 1, 2007  
RE: MAR-4D-0.70 PID 79938 SJN 466010  
Stage 2 Traffic Control Review  
Plans by Palmer Engineering

Sheet:

PP3, TC1 If loops will be replaced, but existing lead-in will be used, then add pay item  
Loop Detector Tie In.

TC1 Pavement Marking Legend---Make all paint 646 Epoxy. See attachments.

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

Let me know if anything else is needed.

C: Project file  
Chrono file

The following is an estimated quantity to be used as directed by the Engineer for the above work:

202 \_\_\_\_\_ EACH      RAISED PAVEMENT MARKER REMOVED

**Designer Notes:** This note may be used on district-wide RPM contracts for times when the castings should not be replaced due to poor pavement.

**342-4 646 Epoxy Pavement Markings, As Per Plan**

The epoxy pavement marking material furnished under these items shall be Epoplex LS-60 as furnished by Epoplex, Maple Shade, New Jersey.

**Designer Notes:** This note shall be added to all plans using 646 Epoxy Pavement Markings, *see Section 341-6.*

**342-5 646 Epoxy Pavement Markings - (Polycarb) - Alternate Bid**

The epoxy pavement marking material shall be Mark 55.4 as furnished by Polycarb, Cleveland, Ohio.

**Designer Notes:** This note shall be added to all plans using 646 Epoxy Pavement Markings, *see Section 341-6.*



Testing procedures for RPMs are covered in **Supplement 1062**.

**341-5 Object Markers and End-of-Roadway Markers**

For plan purposes, object markers and end-of-roadway markers shall be considered flatsheet signs.

**341-6 Epoxy Pavement Markings**

By virtue of **ODOT's** material approval process, a de facto proprietary bid situation has been created when it comes to epoxy pavement markings. On all projects that specify epoxy pavement markings, alternate bids shall be used. The following are the steps to be taken:

1. All 646 pay item descriptions shall be "As Per Plan" and the **Plan Note 342-4 (see Section 342-4)** shall be added to the plans.
2. Alternate bids shall be added for all 646 items in the plans and **Plan Note 342-5 (see Section 342-5)**.

Payment shall be at the normal contract unit price as specified in **Item 646**.

This method will allow the maintaining agency to base their decision not only on cost, but also on preference.



# PLAN REVIEW FORM

## ODOT DISTRICT 6

DATE: Wednesday, April 25, 2007

TO:

Reviewer	Representing	Component/Comment
Brian Tatman	ODOT-D6	Environmental
Jon Adams	ODOT-D6	Hydraulics
Mark Katona	ODOT-D6	MOT
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Fay Taylor	ODOT-D6	Traffic Control
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: Stage 2 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: Monday, May 28, 2007.

Signed:

Fay Taylor

Date:

5/11  
2007

**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](mailto: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: Herb Ligocki, Project File, Chrono File

**INTEROFFICE COMMUNICATION**

TO: THOMAS MAKRIS  
FROM: FAY TAYLOR ~~71~~  
DATE: May 1, 2007  
RE: MAR-4D-0.70 PID 79938 SJN 466010  
Stage 2 Traffic Control Review  
Plans by Palmer Engineering

Sheet:

PP3, TC1 If loops will be replaced, but existing lead-in will be used, then add pay item  
Loop Detector Tie In.

TC1 Pavement Marking Legend---Make all paint 646 Epoxy. See attachments.

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

Let me know if anything else is needed.

C: Project file  
Chrono file

The following is an estimated quantity to be used as directed by the Engineer for the above work:

202 \_\_\_\_\_ EACH      RAISED PAVEMENT MARKER REMOVED

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1. All 646 pay item descriptions shall be "As Per Plan" and the **Plan Note 342-4 (see Section 342-4)** shall be added to the plans.
2. Alternate bids shall be added for all 646 items in the plans and **Plan Note 342-5 (see Section 342-5)**.

Payment shall be at the normal contract unit price as specified in **Item 646**.

This method will allow the maintaining agency to base their decision not only on cost, but also on preference.



# OHIO DEPARTMENT OF TRANSPORTATION

DISTRICT 6 ° 400 E. WILLIAM ST. ° DELAWARE, OH 43015 ° (800) 372-7714

BOB TAFT, OHIO GOVERNOR ° GORDON PROCTOR, ODOT DIRECTOR ° JACK MARCHBANKS, DISTRICT 6 DEPUTY DIRECTOR

---

February 15, 2007

Mr. Larry Shaw, P.E.  
URS Corporation  
One Indiana Square, Suite 2100  
Indianapolis, IN 46204

RE: Marion County  
MAR-4D-0.70  
Bridge Deck Overlay  
PID No. 79938

Dear Sir:

Transmitted herewith are three copies of the Stage 1 plans for the subject project.

We respectfully request your comments or approval of the plans by March 15, 2007.

The early preparation of CSX's Force Account Estimate would be greatly appreciated.

The Agreement for this project will be written and sent to you for your execution in the near future by our Central Office.

Respectfully,

A handwritten signature in cursive script that reads "Bruce Birch".

Bruce Birch, P.E.  
Railroad Coordinator

cc: RR File , CO RR Coordinator



# OHIO DEPARTMENT OF TRANSPORTATION

DISTRICT 6 • 400 E. WILLIAM ST. • DELAWARE, OH 43015 • (800) 372-7714

BOB TAFT, OHIO GOVERNOR • GORDON PROCTOR, ODOT DIRECTOR • JACK MARCHBANKS, DISTRICT 6 DEPUTY DIRECTOR

---

February 15, 2007

Rhonda A. Moore  
Engineer Public Improvements  
Norfolk Southern Corporation  
1200 Peachtree Street N.E.  
Atlanta, Georgia 30309

RE: Marion County  
MAR-4D-0.70  
Bridge Deck Overlay  
PID No. 79938

Dear Rhonda:

Transmitted herewith are three copies of the Stage 1 plans for the subject project.

We respectfully request your comments or approval of the plans by March 15, 2007.

The early preparation of NS Force Account Estimate would be greatly appreciated.

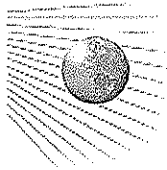
The Agreement for this project will be written and sent to you for your execution in the near future by our Central Office.

Respectfully,

A handwritten signature in cursive script that reads "Bruce Birch".

Bruce Birch, P.E.  
Railroad Coordinator

cc: RR File , CO RR Coordinator



**Tom  
Makris/Production/D06/ODOT**

02/13/2007 10:15 AM

To Bruce Birch/Production/D06/ODOT@ODOT, Kevin  
Fiant/Production/D06/ODOT@ODOT, Robert  
Taylor/Planning/D06/ODOT@ODOT, Jon

cc

bcc

Subject MAR-4D-0.70, PID 79938; S1 Structure Review Comments

All:

Attached are my comments and markups.

I:\Bridge\Design & Review\Bridge Reviews\Bridge Review Comments\MAR-4D-0.70\S1

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





# OHIO DEPARTMENT OF TRANSPORTATION

DISTRICT 6 • INTER-OFFICE COMMUNICATION  
OFFICE OF PRODUCTION

**To:** Thomas Makris, PE, Project Coordinator, District 6  
**From:** Dennis Sheets, Staff Specialist, District 6  
**Date:** February 8, 2007  
**Subject:** MAR-4D-0.70, PID 79938, Stage 1 General Review Comments

---

Following are my comments on the subject plan:

**Sheet 1:**

- 1) Add MAR-95-14.36 to the Project Designation. This will affect the lower right of all sheets.
- 2) PROSPECT is misspelled in the project Description.

**Sheet 2:**

- 1) For SR-4D, add the SLM 0.70 (SR-4D) and the Federal Project flag to the Begin Project flag.
- 2) For SR-4D, add the SLM 0.55 (SR-4D) to the Suspend Project flag.
- 3) For SR-4D, revise Suspend Work to End Work.
- 4) For SR-95, revise Resume Work to Begin Work.
- 5) For SR-95, add the SLM 14.36 (SR-95) to the Resume Project flag.
- 6) For SR-95, add the SLM 14.47 (SR-95) and the Federal Project flag to the Begin Project flag.

**Sheet 3:**

- 1) Add SR-4D to the headings for the Typical Sections.

**Sheet 4:**

- 1) Add SR-95 to the headings for the Typical Sections.

**Sheet PP1:**

- 1) Add SLM 0.70 and the Federal Project flag to the Begin Project flag.

**Sheet PP3:**

- 1) Add SLM 0.55 and the Federal Project flag to the Suspend Project flag.
- 2) Revise the Suspend Project flag to End Work.

**Sheet PP4:**

- 1) Revise the Resume Work flag to Begin Work.

**MAR-4D-0.70, PID 79938, Stage 1 General Review Comments**  
**Page 2**

**Sheet PP5:**

1) Add SLM 14.36 to the Resume Project flag.

**Sheet PP-6:**

1) Add SLM 14.47 and the Federal Project flag to the End Project flag.

I have attached a marked up set of plans for your use. If you have any questions, please contact Dennis Sheets at 740 833-8089.

**Attachments**

c: Project File, Chrono File



# 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	Utilitites

FROM: Thomas G. Makris, P.E.

PROJECT: MAR-4D-0.70, PID 79938 466010

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:

Fay Taylor

Date:

1/23/2007

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](mailto: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

**INTEROFFICE COMMUNICATION**

TO: THOMAS MAKRIS  
FROM: FAY TAYLOR <sup>47</sup>  
DATE: January 23, 2007  
RE: MAR-4D-0.70 PID 79938 SJN 466010  
Stage 1 Traffic Control Review  
Plans by Palmer Engineering

Sheet:

5 Since work is being done over railroad lines, won't there need to be some RR involvement noted here?

The City of Marion needs to be listed for their traffic signals.

TC1 Pavement Marking Legend---Make all paint 644 Thermo for Marion.

Sta. 589+00 Lt.---The existing signs under JCT are 95 (not 49) and 309 (not 329).

Painted lane arrows are not recommended except possibly the one NB arrow.

There are detector loops for the traffic signal and interconnect for the signal system. See attached sheets.

TC2 Sign, Flat Sheet---Bridge ID tags---It looks like these will go on the bridge parapets for this project.

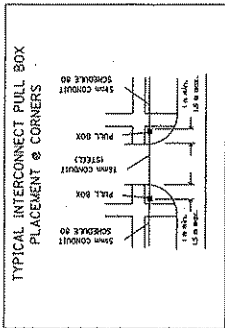
Let me know if anything else is needed.

C: Project file  
Chrono file





CLAMBER	ORDERED	SEP
MAL	ORDERED	SEP



**LEGEND**

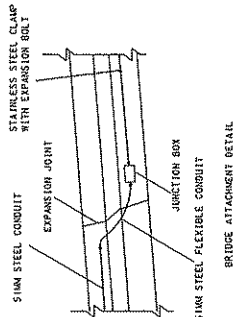
---	EXISTING CONDUIT
---	PROPOSED CONDUIT
---	AERIAL INTERCONNECT
○	EXISTING PULL BOX
□	PROPOSED PULL BOX
●	OC POWER POLE
■	PROPOSED STRAIN POLE
TM	TOWER
IS	SLICE INSTALLATION



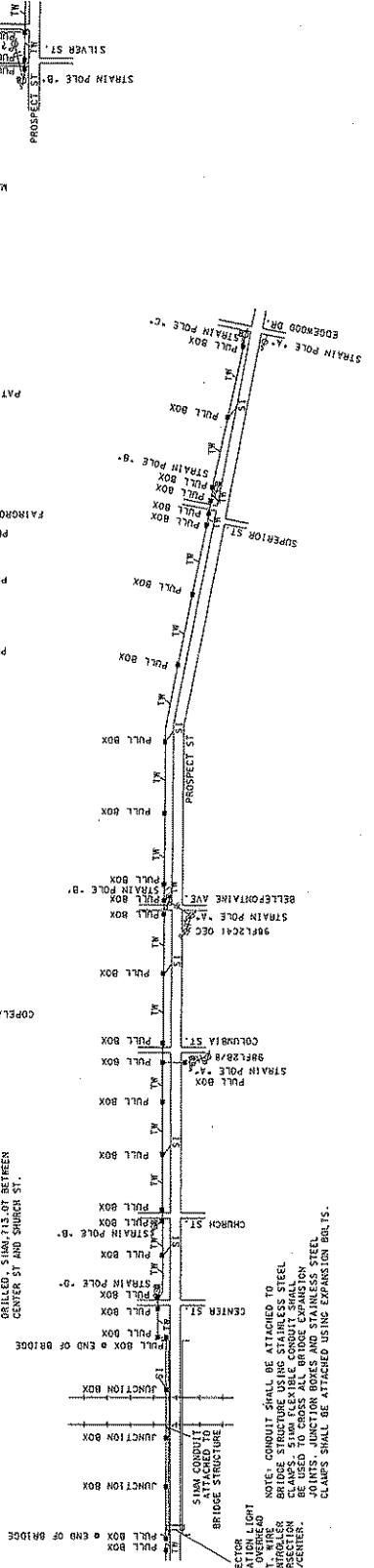
STATE OF FAIRGROUNDS:  
 CONTRACTOR SHALL SUPPLY AND INSTALL  
 ALL MATERIALS AND LABOR FOR THE  
 PROPOSED INTERCONNECT RUM AT  
 PULL BOX IN THE NORTHEAST CORNER.  
 ALL QUANTITIES NEEDED TO  
 COMPLETE THIS CONNECTION HAVE  
 BEEN CARRIED TO THE SUBSUMMENT.

ITEM	QUAN.	UNITS	DESCRIPTION
625	349	METER	CONDUIT, 5MM, T3.04
625	4695	METER	CONDUIT, 5MM, T3.04
625	140	METER	CONDUIT, JACKED OR DRILLED, 5MM, T3.04
625	170	METER	CONDUIT, JACKED OR DRILLED, 76MM, T3.04
625	20	METER	CONDUIT, MISC.: FLEXIBLE CONDUIT, 5MM, T3.04
625	4420	METER	TRENCH, AS PER PLAN
625	275	METER	TRENCH IN PAVED AREA, TYPE A, AS PER PLAN
625	3	EACH	JUNCTION BOX
625	64	EACH	PULL BOX, T3.04, 600 MM, AS PER PLAN
632	5350	METER	INTERCONNECT CABLE, MISC.: 6 FIBER, LOOSE TUBE, HYBRID
632	4680	METER	INTERCONNECT CABLE, MISC.: TONE WIRE
632	10	METER	INTERCONNECT CABLE, MISC.: DROP CABLE, 6 FIBER
632	1	EACH	INTERCONNECT MISC.: FIBER OPTIC CONVERTER
632	12	EACH	INTERCONNECT MISC.: SLACK INSTALLATION
632	1	EACH	INTERCONNECT MISC.: SPICE ENCLOSURE (UNSER GRADE)
632	4	EACH	INTERCONNECT MISC.: FIBER OPTIC CONNECTOR
632	1	EACH	INTERCONNECT MISC.: FIBER OPTIC PATCH CORD, 4 FIBER
632	1	EACH	INTERCONNECT MISC.: TERMINATION PANEL
632	1	EACH	INTERCONNECT MISC.: PASSION SPLICE
632	1	EACH	INTERCONNECT MISC.: PAN OUT KIT, 6 FIBER
632	1	EACH	CONTROLLER, MISC.: RECEIVING UNIT, 1WAY
633	1	EACH	CONTROLLER, MISC.: PREEMPT CONFIRMATION LIGHT
633	370	METER	CONTROLLER, MISC.: PREEMPT DETECTOR CABLE

ALL CONDUIT SHALL BE 5MM SCHEDULE 80 PVC EXCEPT AS NOTED ON THE PLAN SHEETS.

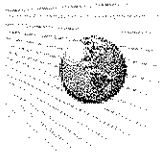


CONDUIT SHALL BE JACKED OR  
 DRILLED, 5MM, T3.04 BETWEEN  
 CENTER ST AND SHURCH ST.



PREEMPT DETECTOR  
 ATTACHED TO MAIN LIGHT  
 BRIDGE STRUCTURE USING  
 5MM SUPPORT WIRE  
 AT THE INTERSECTION  
 OF PROSPECT/CENTER.  
 JOINTS - JUNCTION BOXES AND STAINLESS STEEL  
 CLAMPS SHALL BE ATTACHED USING EXPANSION BOLTS.

NOTE: CONDUIT SHALL BE ATTACHED TO  
 BRIDGE STRUCTURE USING STAINLESS STEEL  
 BRIDGE SUPPORT WIRE  
 BE USED TO CROSS ALL BRIDGE EXPANSION  
 JOINTS.



**Tom  
Makris/Production/D06/ODOT**

11/22/2006 12:44 PM

To Bruce Birch/Production/D06/ODOT@ODOT, Kevin  
Fiant/Production/D06/ODOT@ODOT, Robert  
Taylor/Planning/D06/ODOT@ODOT, Jon

cc

bcc

Subject Mar-4D-0.70, PID 79938, PE Structure Comments.

All,

Attached are my review comments.



Mar4D\_PE\_StructrMarkups\_TGM.pdf MAR-4D-0.70.doc; PE Strctr Memo\_TM.doc

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

# INTEROFFICE MEMO



**Date:** November 20, 2006

**To:** Tom G. Makris, P.E., Project Manager

**From:** Tom G. Makris, P.E., D6 Structure/Hydraulic Reviewer

**Subject:** MAR-4D-0.70, PID 79938; PE Structure Comments

---

I have reviewed the above referenced submittal and offer the following comments below. For additional minor comments not included in this memo, please see the attached markup plans.

## **General Comments:**

1. Based on the scope, the following work items for Mar-95-14.36 (Columbia St. over CSX and N&S) was checked off as possible, if the deck condition survey was poor. The following items are: Replace ex. approach slabs with full width slabs and completely replace the existing parapet. What was the overall condition of the approach slabs and parapet?
2. Has the designer determined if the vandal protection fencing is appropriate for this project? According to the BDM, Section 305.2, for the two bridges (Mar-95-14.36 and Mar-4D-0.70) the "Justification Item" will score a 12 if there has been a reported incident of falling objects. Currently the score is 8, based on items G and H passing. Please verify if there are any reported incidents. (See Attachment, titled Justification Item)
3. According to the scope, has the designer evaluated the existing crash wall under Mar-95-14.36, in order to check if it meets current design standards?

## **Title Sheet:**

4. This project is considered a maintenance project not a construction related disturbance since there will be an overlay and some sub and superstructure patching. As a result a NOI (Notice of Intent) will not be required. So the title sheet should have the following:  
PROJECT EARTH DISTURBED AREA: xx Ac. (number should be between 0 and 4.99 acre)  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA=N/A (MAIN. PROJ.)  
NOTICE OF INTENT EARTH DISTURBED AREA=N/A (MAINTENANCE PROJ.)
5. Provide a Schematic Plan next submission. My notes from the Kick-off meeting indicate



that the schematic plan was checked off as required.

**MAR-4D-0.70**

**Site Plan (S1):**

6. State the disposition of all utility lines. (BDM, 201.3)
7. In the title block show the county, and bridge limits.
8. Include the wearing surface in the proposed structure block.
9. Will the 1 ¼ inch thickness remove the entire overlay due to any variability?

**Site Plan (S2):**

10. Will the piers be sealed with epoxy-urethane?
11. Include the county and the correct bridge limits within the appropriate sheet border block.

**Mar-95-1436**

**Site Plan (S1):**

12. State the disposition of all utility lines. (BDM, 201.3)
13. Include the county and the correct bridge limits within the appropriate sheet border block.
14. Include the wearing surface in the proposed structure block.
15. In the site plan sheet border block, show the correct railroads is it C&O or CSX? Change N&W to N & S (Norfolk and Southern). Make these changes to all sheet borders.
16. Show the north arrow in the plan view.
17. Will the piers be sealed with epoxy-urethane?

Nothing in these comments is to be construed as authorizing extra work for which additional compensation may be claimed. If you have reason to believe that these comments require work outside the limits of the Scope of Services, please contact this office before proceeding.

If you have any questions please do not hesitate to contact me at 740-833-8084.

cc: H. Ligocki, K. Fiant, R. Taylor, J. Adams, Project File, Chrono File



# OHIO DEPARTMENT OF TRANSPORTATION

DISTRICT 6 ° 400 E. WILLIAM ST. ° DELAWARE, OH 43015 ° (800) 372-7714

BOB TAFT, OHIO GOVERNOR ° GORDON PROCTOR, ODOT DIRECTOR ° JACK MARCHBANKS, DISTRICT 6 DEPUTY DIRECTOR

---

November 7, 2006

Philip N. Decker, Public Projects Engineer  
Norfolk Southern Corporation  
1200 Peachtree Street, N.E.  
Atlanta, Georgia 30309-3579

RE: Marion County  
MAR-4D-0.70  
Minor Bridge Rehabilitation  
PID No. 79938

Dear Sir:

Transmitted herewith are three copies of the Stage 1 plans for the subject project.

We respectfully request your comments or approval of the plans by December 7, 2006.

The early preparation of NS's Force Account Estimate would be greatly appreciated.

The Agreement for this project will be written and sent to you for your execution in the near future by our Central Office.

Respectfully,

Bruce Birch, P.E.  
Railroad Coordinator

cc: RR File , CO RR Coordinator



# OHIO DEPARTMENT OF TRANSPORTATION

DISTRICT 6 ° 400 E. WILLIAM ST. ° DELAWARE, OH 43015 ° (800) 372-7714

BOB TAFT, OHIO GOVERNOR ° GORDON PROCTOR, ODOT DIRECTOR ° JACK MARCHBANKS, DISTRICT 6 DEPUTY DIRECTOR

---

November 7, 2006

Mr. Larry Shaw, P.E.  
URS Corporation  
One Indiana Square, Suite 2100  
Indianapolis, IN 46204

RE: Marion County  
MAR-4D-0.70  
Minor Bridge Rehabilitation  
PID No. 79938

Dear Sir:

Transmitted herewith are three copies of the Stage 1 plans for the subject project.

We respectfully request your comments or approval of the plans by December 7, 2006.

The early preparation of CSX's Force Account Estimate would be greatly appreciated.

The Agreement for this project will be written and sent to you for your execution in the near future by our Central Office.

Respectfully,

A handwritten signature in cursive script that reads "Bruce Birch".

Bruce Birch, P.E.  
Railroad Coordinator

cc: RR File , CO RR Coordinator



# OHIO DEPARTMENT OF TRANSPORTATION

DISTRICT 6 • INTER-OFFICE COMMUNICATION  
OFFICE OF PRODUCTION

**To:** Thomas Makris, PE, Project Coordinator, District 6  
**From:** Dennis Sheets, Staff Specialist, District 6  
**Date:** November 7, 2006  
**Subject:** MAR-4D-0.70, PID 79938, Preliminary Engineering General Review Comments

---

Following are my comments on the subject plan:

**Sheet 1:**

- 1) Add the Federal Number, E051(291) to the upper right.
- 2) Remove the Prima Facie note, it should not be used on projects of this type.

**Sheet 2:**

- 1) A minimum overlay of 2.5 inches of asphalt is needed for concrete pavement. I suggest adding a 1.25" course of Asphalt Concrete, Intermediate Course, Type 1. If another course is used, ITEM 407 – TACK COAT FOR INTERMEDIATE COURSE at 0.04 Gal/SY is needed between the two courses.

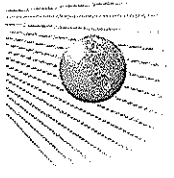
**Plan and Profile Sheets:**

- 1) A Legend should be placed on all sheets.
- 2) Show Begin, Suspend, Resume, and End Projects and Begin and End Work.

I have attached a marked up set of plans for your use. If you have any questions, please contact Dennis Sheets at 740 833-8089.

Attachments

c: Project File, Chrono File



Tom  
Makris/Production/D06/ODOT

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



# 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	<i>Need ROW Certification</i>
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](mailto: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-070, PID 79938 466010  
 SUBJECT: Preliminary Engineering Submittal  
 MAR-95-14,36

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: Fay Taylor Date: 11/2/2006

**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

## INTEROFFICE COMMUNICATION

TO: THOMAS MAKRIS  
FROM: FAY TAYLOR <sup>77</sup>  
DATE: November 2, 2006  
RE: MAR-4D / 95-0.70 / 14.36 PID 79938  
Preliminary Engineering Report  
Plans by Palmer Engineering

All of the documents look adequate at this time. The reports suggest the possibility of needing curb ramps with truncated domes. They report that Epoxy pavement marking will be used on the bridge decks. They report that the turn lane lengths and turning radii are adequate.

See the bridge marker sign design (attached), and adapt to this project.

Let me know if anything else is needed.

Copy: Project File  
Chrono File

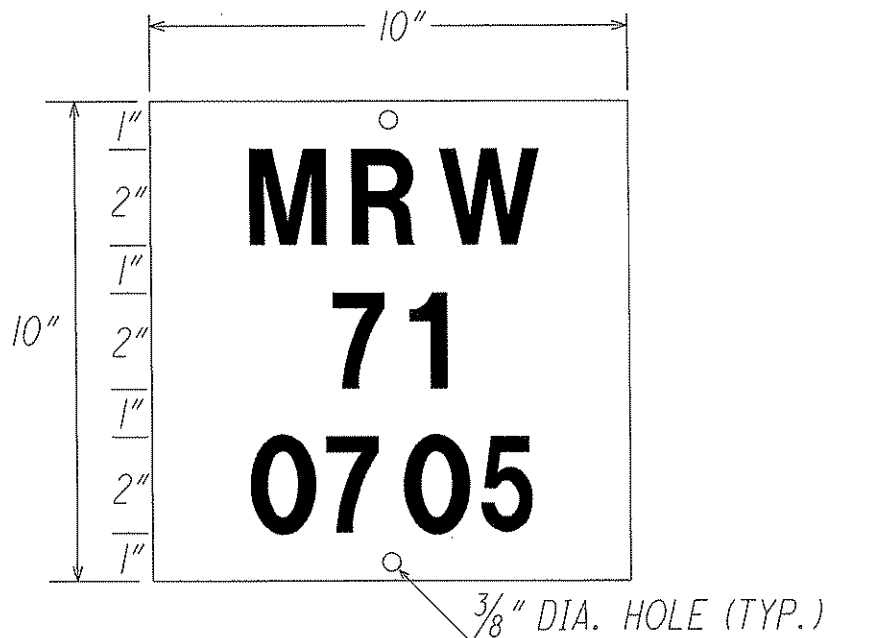


ITEM 630 - SIGN, FLAT SHEET, AS PER PLAN  
ITEM 630 - GROUND MOUNTED SUPPORT, NO. 2 POST

THESE ITEMS SHALL BE USED TO PLACE NEW STRUCTURE IDENTIFICATION SIGNS AT THE FOLLOWING STRUCTURES: -----

EACH SIGN SHALL BE ATTACHED TO THE CONCRETE PARAPET WITH CONCRETE ANCHORS AT THE RIGHT, REAR (AND FORWARD LEFT IF TWIN BRIDGES) LOCATION. IF THE BRIDGE DOES NOT HAVE A CONCRETE PARAPET, THE SIGN SHALL BE POST MOUNTED TO ONE NEW NO. 2 POST AS PER CONSTRUCTION DRAWING TC-41.20 MOST CURRENT REVISION USING TWO  $\frac{5}{16}$ " ALUMINUM BOLTS  $2\frac{1}{2}$ " IN LENGTH. THE POST SHALL BE 7'-0" LONG.

SIGNS SHALL BE SIZED AS PER THE EXAMPLE. SIGNS SHALL BE ALUMINUM AND HAVE A NON-REFLECTIVE WHITE SHEETING BACKGROUND AS PER CMS 730.20. THE LETTERS SHALL BE BLACK 2" IN HEIGHT, SERIES C STROKE WIDTH, AND SILK SCREENED AS PER CMS 730.22.



EXAMPLE



## Ohio Department of Transportation: ELLIS Reporting

<b>User:</b>
ccrosby
<b>Date:</b>
06/09/2005

### Basic Project Information

<b>Project Name:</b>	MAR SR 4 0.70	<b>PID:</b>	79938
<b>Project Status:</b>	Candidate	<b>Responsible District:</b>	D6
<b>Project Type:</b>	Let	<b>Locale:</b>	MAR
<b>Project Description:</b>	MAR-4D-0070. MARION. NORTH PROSPECT STREET OVER CSX RAILROAD. OVERLAY DECK AND APPROACHES; REPLACE EXPANSION JOINTS; CURB REPAIR; RESET BEARINGS; SEAL SUBSTRUCTURE AND BEAMS. MAR-95-1436. MARION. COLUMBIA STREET OVER CSX AND N&S RAILROADS. OVERLAY DECK AND APPROACHES; PATCH PIERS AND PIER CAPS; SEAL SUBSTRUCTURE AND BEAMS. MAR-309-0617. BIG ISLAND TOWNSHIP. OVER LEWIS DITCH. STRUCTURE REPLACEMENT.		

### Detailed Project Information

<b>Letting Type:</b>	ODOT Let	<b>Project Manager:</b>	BIRCH, BRUCE S
<b>Work Categories:</b>	Preservation <ul style="list-style-type: none"> <li>● Bridge Repair</li> </ul>	<b>Contract Features:</b>	
<b>Primary Work Category:</b>	Bridge Repair	<b>Environmental Document Type:</b>	
<b>Project Purpose:</b>	Preservation	<b>Trac Tier:</b>	
<b>Designers:</b>	<ul style="list-style-type: none"> <li>● Consultant Not Yet Selected</li> </ul>	<b>Program Family:</b>	
<b>Responsible Design Agency:</b>	DISTRICT 6-PRODUCTION	<b>Federal Congressional District:</b>	4
<b>Sponsoring Agency:</b>	DISTRICT 6-PLANNING	<b>Demo ID:</b>	
<b>Plans Measurement Type:</b>	English Units	<b>Reservoir Year:</b>	
<b>FHWA Oversight:</b>	A : State Administered	<b>FHWA Project Type:</b>	P
<b>Reporting Group Codes:</b>	<ul style="list-style-type: none"> <li>● D06 BRIDGE</li> <li>● TMS 02 Bridge Repair</li> </ul>	<b>Primary MPO:</b>	
<b>Project Termini:</b>	MAR-4D-0070; MAR-95-1436 AND MAR-309-0617.		

### Project Classification Information

Name	Federal Aid System	Functional System	Urbanized Area/Size	Verified	Assigned	
O M 000	Other Federal-Aide Highway	Minor Arterial	RURAL = Population less than 5,000	Yes	Yes	
<b>Funding</b>						
Funding Events	Event Estimate	Grouping ID	Improvement Code	Committed Funding	Toll Revenue Amount	Event Status
Const Engineering 01	\$62,500.00		Construction Engineering	Yes	\$0.00	New
Const Contract 01	\$625,000.00		Bridge Rehabilitation - No Added Capacity	Yes	\$0.00	New
Detail Design 01	\$218,750.00		Preliminary Engineering	Yes	\$0.00	New
<b>Work Locations</b>						
Roadway Segments	NLF ID	County/Route	SLM Log Point	County True Log Point	Classification Lane Miles	

MAR-SR-309	SMARSR00309**C	MAR-SR-309	6.170 to 6.180	6.170 to 6.180	0.020
<b>Bridges</b>	<b>NLF ID</b>	<b>County/Route</b>	<b>SLM Log Point</b>	<b>County True Log Point</b>	<b>Overall Length</b>
5101417	SMARSR00309**C	MAR-SR-309	6.070	6.070	12.0
O P 746	Other Federal-Aide Highway	Other Principal Arterial	MARION	Yes	No
<b>Work Locations</b>					
<b>Roadway Segments</b>	<b>NLF ID</b>	<b>County/Route</b>	<b>SLM Log Point</b>	<b>County True Log Point</b>	<b>Classification Lane Miles</b>
MAR-SR-95	SMARSR00095**C	MAR-SR-95	14.360 to 14.470	14.360 to 14.470	0.330
MAR-SR-4	SMARSR00004*DC	MAR-SR-4	0.700 to 0.850	0.700 to 0.850	0.520
<b>Bridges</b>	<b>NLF ID</b>	<b>County/Route</b>	<b>SLM Log Point</b>	<b>County True Log Point</b>	<b>Overall Length</b>
5102561	SMARSR00095**C	MAR-SR-95	14.350	14.350	599.0
5100240	SMARSR00004*DC	MAR-SR-4	0.520	0.520	798.0

**Project Milestone Information**

Milestone	Commitment Date	Actual Date	Baseline Date	N/A	Shared
Award	01/01/2008			No	No

**Project Comment Information**

Comment	Type	Date	User
CONST ENGINEERING 01 FUNDING EVENT ADDED AT 10% OF CONST CONTRACT AMOUNT.	Funding	06/06/2005	TALLEN
CONST CONTRACT 01 FUNDING EVENT ADDED BASED UPON COST INFO SUBMITTED BY D6 PLANNING.	Funding	06/06/2005	TALLEN
DETAIL DESIGN 01 FUNDING EVENT ADDED AT 35% OF CONST CONTRACT AMOUNT.	Funding	06/06/2005	TALLEN
AWARD DATE ADDED FOR REPORTING PURPOSES.	Schedule	06/03/2005	tallen
PROJECT PROGRAMMED AS REQUESTED BY D6 PLANNING VIA E-MAIL DATED 06/02/2005.	General	06/03/2005	tallen

**Project Contract Information**

State Project Number	Vendor Name	Sale Amount	Sale Date	Award Date	Completion Date
This project has no construction contracts.					

**Project Disaster Information**

Disaster Number	Fiscal Year	Description
No disasters found for this project.		

**Project Donation Information**

Donation Amount	Description
No donations found for this project.	

**Project Legislation Information**

Legislation Code	County	Municipality	Ordinance Number	Submission Date	Completion Date	Shared
Consent	MARION	MARION				No

**Project Permit Information**

Permit Code	Permit Number	Permit Party	Requested Date	Approved Date	Shared
-------------	---------------	--------------	----------------	---------------	--------

No Permits Found

**Project Right-Of-Way Information**

Responsible Acquisition Agency: \_\_\_\_\_ Acquiring Agents: \_\_\_\_\_  
 Total Parcel Count: \_\_\_\_\_ Railroad Parcel Count: \_\_\_\_\_  
 Relocation Assistance Parcel Count: \_\_\_\_\_

**Project Third Party Agreement Information**

Agreement Number	Type	Agreement Party	Submission Date	Completion Date	Shared
This project has no funding agreements.					

**Project Bridge Information**

SFN	District	Residing Location	Intersecting Location	Primary Location	Special Designation	Project Classification
5100240	District 6	SMARSR00004*DC : 0.710 : 0.710		SMARSR00004*DC		O P 746
5102561	District 6	SMARSR00095**C : 14.360 : 14.360	MMARMR **C : 0.000 : 0.000	SMARSR00095**C		O P 746
5101417	District 6	SMARSR00309**C : 6.170 : 6.170		SMARSR00309**C		O M 000

**Project Detailed Bridge Information**

- 5100240 -- MAR SR 0.71

<b>SFN:</b>	5100240	<b>General Appraisal Rating:</b>	6	<b>Minimum Horizontal Cardinal Clearance:</b>	28.0 feet
<b>District:</b>	District 6	<b>Wearing Surface Rating:</b>	3	<b>Minimum On-Bridge Vertical Clearance:</b>	9999.9 feet
<b>County:</b>	MAR	<b>Paint Rating:</b>		<b>Minimum Under-Bridge Vertical Clearance:</b>	23.5 feet
<b>Route Code:</b>	SR	<b>Floor Rating:</b>		<b>Overall Length:</b>	798
<b>Route:</b>	4	<b>Sufficiency Rating:</b>	081.0	<b>Deck Area:</b>	27136
<b>Log Point:</b>	0.71	<b>Structure Type:</b>	231	<b>Feature Intersected :</b>	
<b>Special Designation:</b>		<b>Maintenance Responsibility:</b>	COUNTY	<b>SD/FO:</b>	0
<b>Year Built:</b>	1968	<b>Treatment Types:</b>	Preventive Maintenance ● Deck overlay (concrete) (040) ● Substructure Sealing (088)	<b>NBIS Flag:</b>	Y
<b>Inspection Date:</b>	05/20/2004	<b>Categories Improved:</b>	● Wearing Surface	<b>Added Capacity:</b>	No
<b>Operating Status:</b>	A	<b>Owner:</b>	STATE	<b>Major Bridge:</b>	N
<b>Type of Service:</b>	HIGHWAY	<b>Legal Load %:</b>	150	<b>Inventory Feature:</b>	OVER ERIE PENN RR

Project

Classification(s):	Name	Federal Aid System	Functional System	Urbanized Area/Size	
	O P 746	Other Federal-Aide Highway	Other Principal Arterial	MARION	
● 5102561 -- MAR SR 14.36					
SFN:	5102561	General Appraisal Rating:	6	Minimum Horizontal Cardinal Clearance:	40.0 feet
District:	District 6	Wearing Surface Rating:	3	Minimum On-Bridge Vertical Clearance:	9999.9 feet
County:	MAR	Paint Rating:		Minimum Under-Bridge Vertical Clearance:	21.2 feet
Route Code:	SR	Floor Rating:		Overall Length:	599
Route:	95	Sufficiency Rating:	079.0	Deck Area:	29945
Log Point:	14.36	Structure Type:	221	Feature Intersected :	SR 95 COLUMBIA ST
Special Designation:		Maintenance Responsibility:	COUNTY	SD/FO:	2
Year Built:	1975	Treatment Types:	Preventive Maintenance ● Deck overlay (concrete) (040) ● Substructure Sealing (088)	NBIS Flag:	Y
Inspection Date:	08/16/2004	Categories Improved:	● Wearing Surface	Added Capacity:	No
Operating Status:	A	Owner:	STATE	Major Bridge:	N
Type of Service:	HIGHWAY/PEDESTRIAN	Legal Load %:	150	Inventory Feature:	COLUMBIA OVER RR,STREETS
Project Classification (s):	Name	Federal Aid System	Functional System	Urbanized Area/Size	
	O P 746	Other Federal-Aide Highway	Other Principal Arterial	MARION	
● 5101417 -- MAR SR 6.17					
SFN:	5101417	General Appraisal Rating:	4	Minimum Horizontal Cardinal Clearance:	32.0 feet
District:	District 6	Wearing Surface Rating:	1	Minimum On-Bridge Vertical Clearance:	9999.9 feet
County:	MAR	Paint Rating:		Minimum Under-Bridge Vertical Clearance:	0 feet
Route Code:	SR	Floor Rating:		Overall Length:	12
Route:	309	Sufficiency Rating:	058.5	Deck Area:	431
Log Point:	6.17	Structure Type:	111	Feature Intersected :	
Special Designation:		Maintenance Responsibility:	OHIO TRAN DEPT	SD/FO:	1

<b>Year Built:</b>	1920	<b>Treatment Types:</b>	New Construction ● Structure(repl) (002)	<b>NBIS Flag:</b>	N
<b>Inspection Date:</b>	10/04/2004	<b>Categories Improved:</b>	● General	<b>Added Capacity:</b>	No
<b>Operating Status:</b>	A	<b>Owner:</b>	STATE	<b>Major Bridge:</b>	N
<b>Type of Service:</b>	HIGHWAY	<b>Legal Load %:</b>	150	<b>Inventory Feature:</b>	LEWIS DITCH
<b>Project Classification(s):</b>	Name O M 000	<b>Federal Aid System</b> Other Federal-Aide Highway	<b>Functional System</b> Minor Arterial	<b>Urbanized Area/Size</b> RURAL = Population less than 5,000	

**Project Spot Location Information**

Description	Type	Elevation	Latitude	Longitude
This project has no spot locations.				

**Project Roadway Information**

<b>Available Segment Mileage:</b>	<b>Available Priority Lane Miles</b>	<b>Available General Lane Miles</b>	<b>Available Urban Lane Miles</b>	<b>Available Total Lane Miles</b>
	0.000	0.020	0.850	0.870
<b>Actual Segment Mileage:</b>	<b>Actual Priority Lane Miles</b>	<b>Actual General Lane Miles</b>	<b>Actual Urban Lane Miles</b>	<b>Actual Total Lane Miles</b>
	0.000	0.020	0.850	0.870

Primary	BTRS	Obsolete	County/Route	NLF ID	SLM Log	Project Classification
Yes	Yes	No	MAR: SR4: 0.700-0.850	SMARSR00004*DC	0.700 to 0.850	● O P 746
No	Yes	No	MAR: SR95: 14.360-14.470	SMARSR00095**C	14.360 to 14.470	● O P 746
No	Yes	No	MAR: SR309: 6.170-6.180	SMARSR00309**C	6.170 to 6.180	● O M 000

**Project Roadway Detail Information**

- Segment : SMARSR00004\*DC

<b>District:</b>	District 6	<b>County:</b>	MAR	
<b>NLF ID:</b>	SMARSR00004*DC	<b>Route Number:</b>	SR - 4	
<b>Verified in BTRS:</b>	Yes	<b>Primary:</b>	Yes	
<b>Begin Log Point:</b>	0.700	<b>End Log Point:</b>	0.850	
<b>Pavement Treatment Category:</b>		<b>Description Code:</b>	Directional Alternative	
<b>Added Capacity:</b>	No	<b>Urban Paving:</b>	No	
<b>Pavement Treatment Category:</b>		<b>Pavement Treatment Types:</b>		
<b>Improved PCR:</b>	N/A	<b>Obsolete:</b>	No	
<b>Municipalities/Street Names:</b>	Municipality MARION	<b>Street Name</b>	PROSPECT	
<b>Available Segment Mileage:</b>	<b>Available Priority Lane Miles</b>	<b>Available General Lane Miles</b>	<b>Available Urban Lane Miles</b>	<b>Available Total Lane Miles</b>
	0.000	0.000	0.520	0.520
<b>Actual Segment Mileage:</b>	<b>Actual Priority Lane Miles</b>	<b>Actual General Lane Miles</b>	<b>Actual Urban Lane Miles</b>	<b>Actual Total Lane Miles</b>

	0.000	0.000	0.520	0.520
<b>Project Classification(s):</b>	<b>Name</b>	<b>Federal Aid System</b>	<b>Functional System</b>	<b>Urbanized Area/Size</b>
	O P 746	Other Federal-Aide Highway	Other Principal Arterial	MARION

● **Segment : SMARSR00095\*\*C**

<b>District:</b>	District 6	<b>County:</b>	MAR
<b>NLF ID:</b>	SMARSR00095**C	<b>Route Number:</b>	SR - 95
<b>Verified in BTRS:</b>	Yes	<b>Primary:</b>	No
<b>Begin Log Point:</b>	14.360	<b>End Log Point:</b>	14.470
<b>Pavement Treatment Category:</b>		<b>Description Code:</b>	Regular Route
<b>Added Capacity:</b>	No	<b>Urban Paving:</b>	No
<b>Pavement Treatment Category:</b>		<b>Pavement Treatment Types:</b>	
<b>Improved PCR:</b>	N/A	<b>Obsolete:</b>	No

<b>Municipalities/Street Names:</b>	<b>Municipality</b>	<b>Street Name</b>
	MARION	COLUMBIA

<b>Available Segment Mileage:</b>	<b>Available Priority Lane Miles</b>	<b>Available General Lane Miles</b>	<b>Available Urban Lane Miles</b>	<b>Available Total Lane Miles</b>
	0.000	0.000	0.330	0.330
<b>Actual Segment Mileage:</b>	<b>Actual Priority Lane Miles</b>	<b>Actual General Lane Miles</b>	<b>Actual Urban Lane Miles</b>	<b>Actual Total Lane Miles</b>
	0.000	0.000	0.330	0.330

<b>Project Classification(s):</b>	<b>Name</b>	<b>Federal Aid System</b>	<b>Functional System</b>	<b>Urbanized Area/Size</b>
	O P 746	Other Federal-Aide Highway	Other Principal Arterial	MARION

● **Segment : SMARSR00309\*\*C**

<b>District:</b>	District 6	<b>County:</b>	MAR
<b>NLF ID:</b>	SMARSR00309**C	<b>Route Number:</b>	SR - 309
<b>Verified in BTRS:</b>	Yes	<b>Primary:</b>	No
<b>Begin Log Point:</b>	6.170	<b>End Log Point:</b>	6.180
<b>Pavement Treatment Category:</b>		<b>Description Code:</b>	Regular Route
<b>Added Capacity:</b>	No	<b>Urban Paving:</b>	No
<b>Pavement Treatment Category:</b>		<b>Pavement Treatment Types:</b>	
<b>Improved PCR:</b>	N/A	<b>Obsolete:</b>	No

<b>Municipalities/Street Names:</b>	<b>Municipality</b>	<b>Street Name</b>
		SR-309

<b>Available Segment Mileage:</b>	<b>Available Priority Lane Miles</b>	<b>Available General Lane Miles</b>	<b>Available Urban Lane Miles</b>	<b>Available Total Lane Miles</b>
	0.000	0.020	0.000	0.020
<b>Actual Segment Mileage:</b>	<b>Actual Priority Lane Miles</b>	<b>Actual General Lane Miles</b>	<b>Actual Urban Lane Miles</b>	<b>Actual Total Lane Miles</b>
	0.000	0.020	0.000	0.020

**Project Classification(s):**

Name	Federal Aid System	Functional System	Urbanized Area/Size
O M 000	Other Federal-Aide Highway	Minor Arterial	RURAL = Population less than 5,000

**Project Railway Information**

AARDOT	District	County	Route Code	Route	Log Point	Project Classification
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This project has no railroad crossings.

**Project Detailed Railway Information**

This project has no rail crossings

**Project Funding Information**

Project Estimate: \$906,250.00

Phase	Requested STIP Year	Approved STIP Year	Federal Agreement Numbers	State Job Numbers	Phase Estimate	Funding Committed	Authorized Date		
• Preliminary Engineering	2007				\$218,750.00				
Subphase			Estimate		Funding Committed				
• Detailed Design				\$218,750.00					
Event Name	Estimate	Grouping	Improvement Code	Encumbrance Requests	Committed Funding	Toll Revenue Contribution	Status		
• Detail Design 01	\$218,750.00		Preliminary Engineering	• PE 01	Yes	\$0.00	New		
Line #	Est. Fund	Billing Fund	Priority	Type	Pro Rata %	Estimate Amount	100% Toll	Toll Revenue Amt.	Adj. Total
• 1	4PS7/0006	002		State	100	\$218,750.00	No	\$0.00	\$218,750.00
• Construction	2008				\$687,500.00				
Subphase			Estimate		Funding Committed				
• Construction Contract				\$625,000.00					
Event Name	Estimate	Grouping	Improvement Code	Encumbrance Requests	Committed Funding	Toll Revenue Contribution	Status		
• Const Contract 01	\$625,000.00		Bridge Rehabilitation - No Added Capacity	• CO 01	Yes	\$0.00	New		
Line #	Est. Fund	Billing Fund	Priority	Type	Pro Rata %	Estimate Amount	100% Toll	Toll Revenue Amt.	Adj. Total
• 1	4PF7/0006			Federal	80	\$500,000.00	No	\$0.00	\$500,000.00
• 2	4PS7/0006	002		State	20	\$125,000.00	No	\$0.00	\$125,000.00
• Construction Engineering				\$62,500.00					
Event Name	Estimate	Grouping	Improvement Code	Encumbrance Requests	Committed Funding	Toll Revenue Contribution	Status		
• Const Engineering 01	\$62,500.00		Construction Engineering	• CO 01	Yes	\$0.00	New		
Line #	Est. Fund	Billing Fund	Priority	Type	Pro Rata %	Estimate Amount	100% Toll	Toll Revenue Amt.	Adj. Total
• 1	LABR			Federal	80	\$50,000.00	No	\$0.00	\$50,000.00
• 2	LABR	002		State	20	\$12,500.00	No	\$0.00	\$12,500.00

**Project Encumbrance Request Information**

Name	Reference	Requested Year	Requested Quarter	Number	Encumbered	Actual Year	Encumbrance Date	Encumbered Amount	Vendor Name
PE 01	Original PE or RW	2007	1		No				



Encumbrance  
 CO 01 ODOT Let Contract 2008 3 No  
 Sale (Traditional)

**Project Funding Report**

Project Estimate: \$0.00

**Preliminary Engineering**

State Job Number(s): Phase Estimate: \$0.00  
 Requested STIP Year: 2007 Approved STIP Year: 2007

**PDMS 405 Funding**

Fund ID	Fund Source	Fund Type	Fund Code	Sub Code	Fund Type	Line Item	Sub Code	Base	Line Amount
There are no funds associated with this phase.									

**Encumbrance Data**

Encumbrance Number	Vendor Name	Fund Year	Encumbrance Date	Encumbered Amount
There are no encumbrances associated with this phase.				

**Total Encumbered by SAC for all Preliminary Engineering Encumbrances**

SAC	Encumbered Amount
There are no SACs associated with this phase.	

**Construction**

State Job Number(s): Phase Estimate: \$0.00  
 Requested STIP Year: 2008 Approved STIP Year: 2008

**PDMS 405 Funding**

Fund ID	Fund Source	Fund Type	Fund Code	Sub Code	Fund Type	Line Item	Sub Code	Base	Line Amount
There are no funds associated with this phase.									

**Encumbrance Data**

Encumbrance Number	Vendor Name	Fund Year	Encumbrance Date	Encumbered Amount
There are no encumbrances associated with this phase.				

**Total Encumbered by SAC for all Construction Encumbrances**

SAC	Encumbered Amount
There are no SACs associated with this phase.	

**FMIS Detail Data**

FAN	Detail Number	Program Code	Improvement Type	Federal Participation	Federal Funds	State Funds	Local Funds	Advance Construction	Converted Funds	Soft Match	100% Safety
There is no FMIS Detail Data associated with this project.											



**BENCHMARKS SR-4D**

SET MAG NAIL  
ELEV. 970.07  
STA 597+48.16 - 14.90' RT

SET MAG NAIL  
ELEV. 975.55  
STA 584+75.22 - 15.28' RT

ODOT DISK IN PIER  
(88± SOUTH OF HUBER ST)  
ELEV. =978.02  
STA. 587+97.53 - 5.12 RT.

**REFERENCES SR-4D**

MAG NAIL: STA. 583+52.25 - €

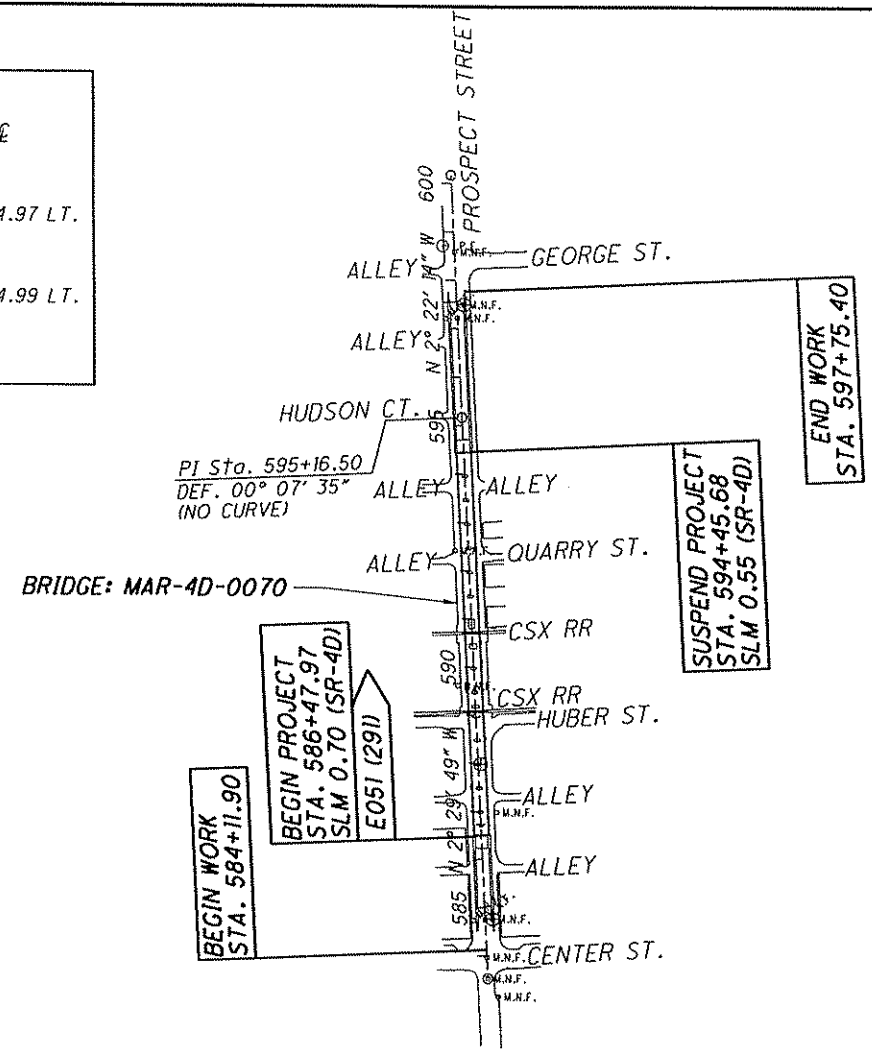
MAG NAIL: STA.583+96.61 - €

MAG NAIL: STA.584+73.91 - 24.97 LT.

MAG NAIL: STA.584+73.91 - €

MAG NAIL: STA.597+21.66 - 24.99 LT.

MAG NAIL: STA.597+21.69 - €



END WORK  
STA. 597+75.40

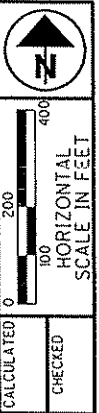
SUSPEND PROJECT  
STA. 594+45.68  
SLM 0.55 (SR-4D)

BEGIN WORK  
STA. 584+11.90

BEGIN PROJECT  
STA. 586+47.97  
SLM 0.70 (SR-4D)

BRIDGE: MAR-4D-0070

PI Sta. 595+16.50  
DEF. 00° 07' 35"  
(NO CURVE)



SCHEMATIC PLAN

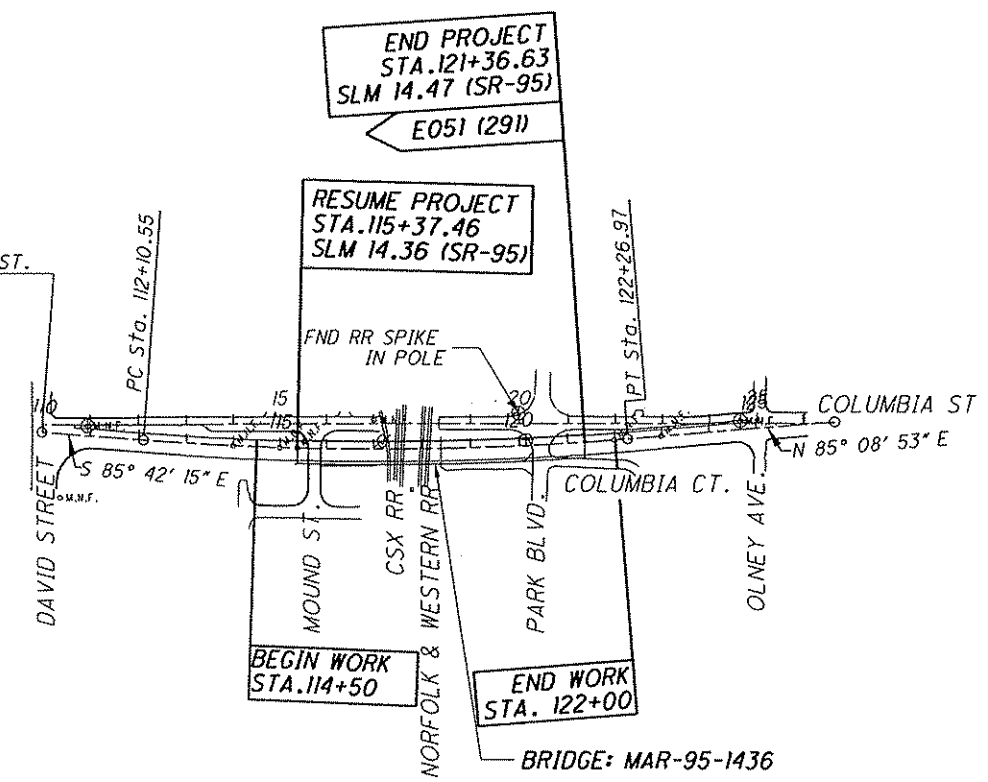
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MAR-95-14.36

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Palmer Engineering  
11300 CORNELL PARK DR  
CINCINNATI, OH 45242  
WINCHESTER, MASSACHUSETTS

**CURVE DATA  
COLUMBIA ST. OVERPASS**

P.I. STA. 117+19.84  
Δ = 9° 08' 52" (LT)  
Dc = 0° 54' 00"  
R = 6,366.20'  
T = 509.29'  
L = 1,016.42'  
E = 20.34'



**BENCHMARKS SR-95**

SET MAG NAIL  
ELEV. 958.71  
STA. 124+67.50 - 17.94' LT

ODOT DISK IN BRIDGE PIER  
ELEV. 956.68  
STA. 120+14.87 - 10.96 LT.

SET MAG NAIL  
ELEV. 954.99  
STA. 110+92.84 - 20.18 LT.

**REFERENCES SR-95**

MAG NAIL: STA.114+00.01 - 0.06 LT.

MAG NAIL: STA.114+99.80 - €

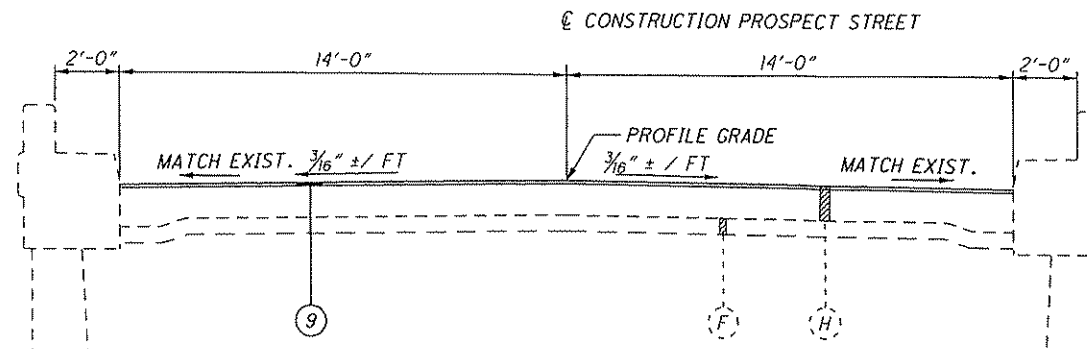
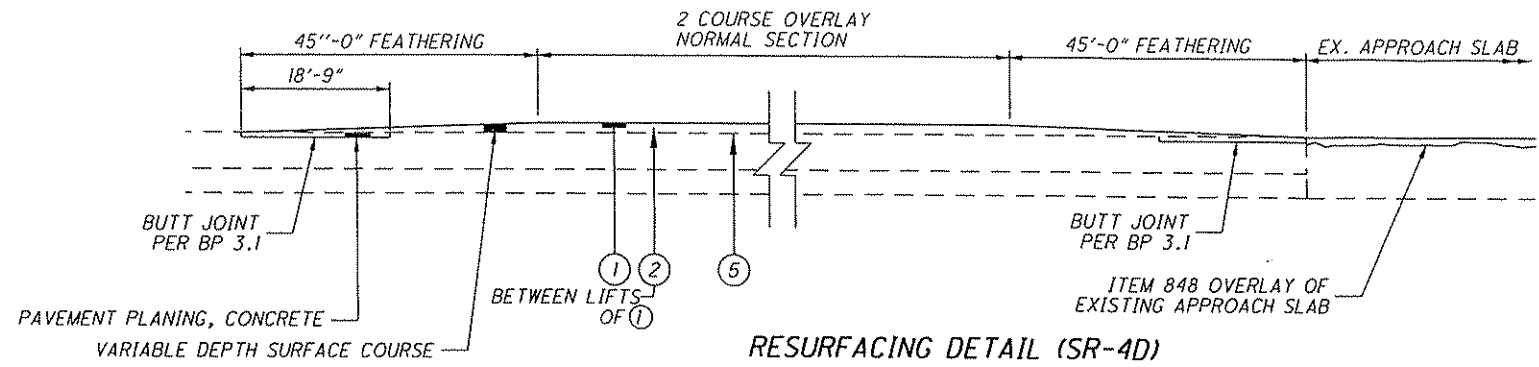
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MAG NAIL: STA.121+98.18 - 0.02 RT.

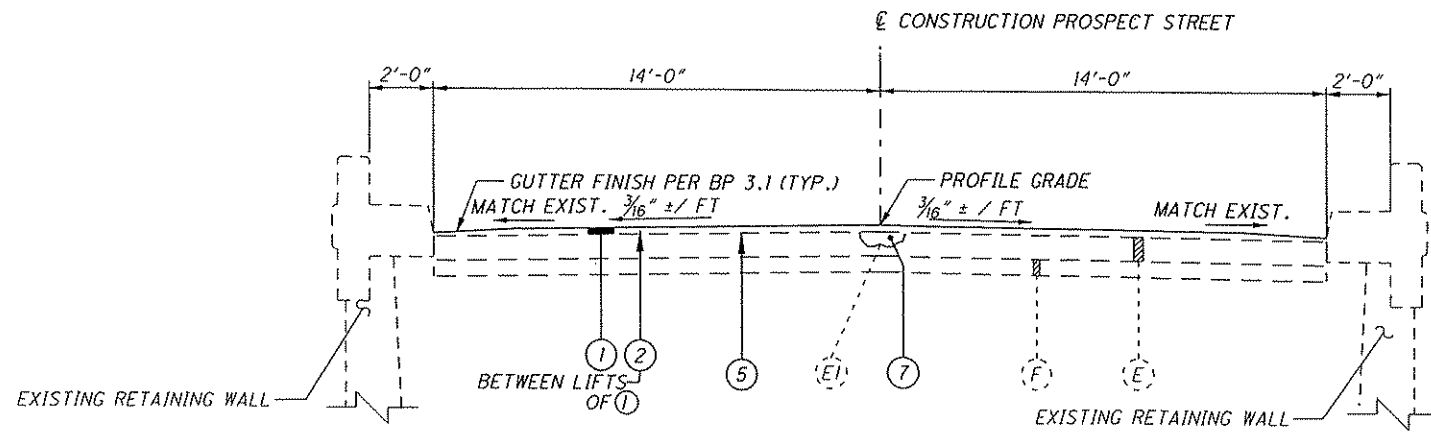
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 MODEL: \$MODELNAME\$

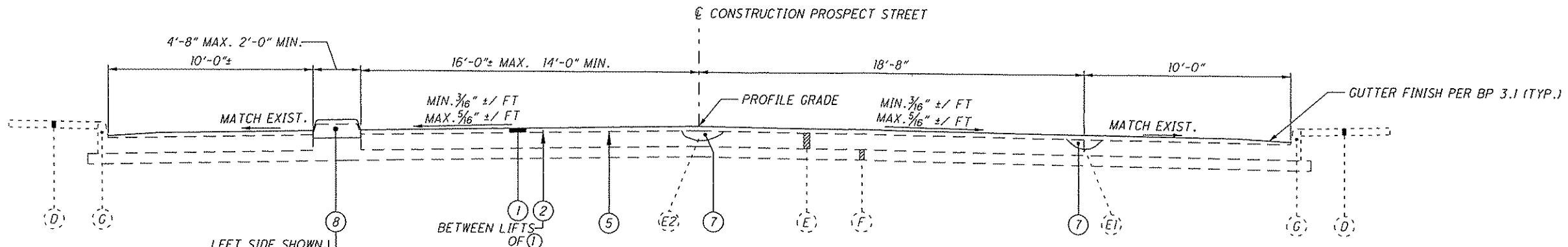
Palmer Engineering  
 1300 CORNELL PARK DR  
 ENGINEERING CINCINNATI, OH 45242  
 CINCINNATI, OH 45242



PROSPECT STREET (SR-4D) - APPROACH SLAB SECTION  
 STATION 586+22.97 TO STATION 586+47.97 = 25.00 LIN FT  
 STATION 594+45.68 TO STATION 594+70.68 = 25.00 LIN FT



PROSPECT STREET (SR-4D) - NORMAL SECTION  
 STATION 584+73.50 TO STATION 597+75.40 = 454.19 LIN FT  
 (DEDUCT 847.71 LIN FT STATION 586+22.97 TO STATION 594+70.68 FOR STRUCTURE MAR-4D-0070)



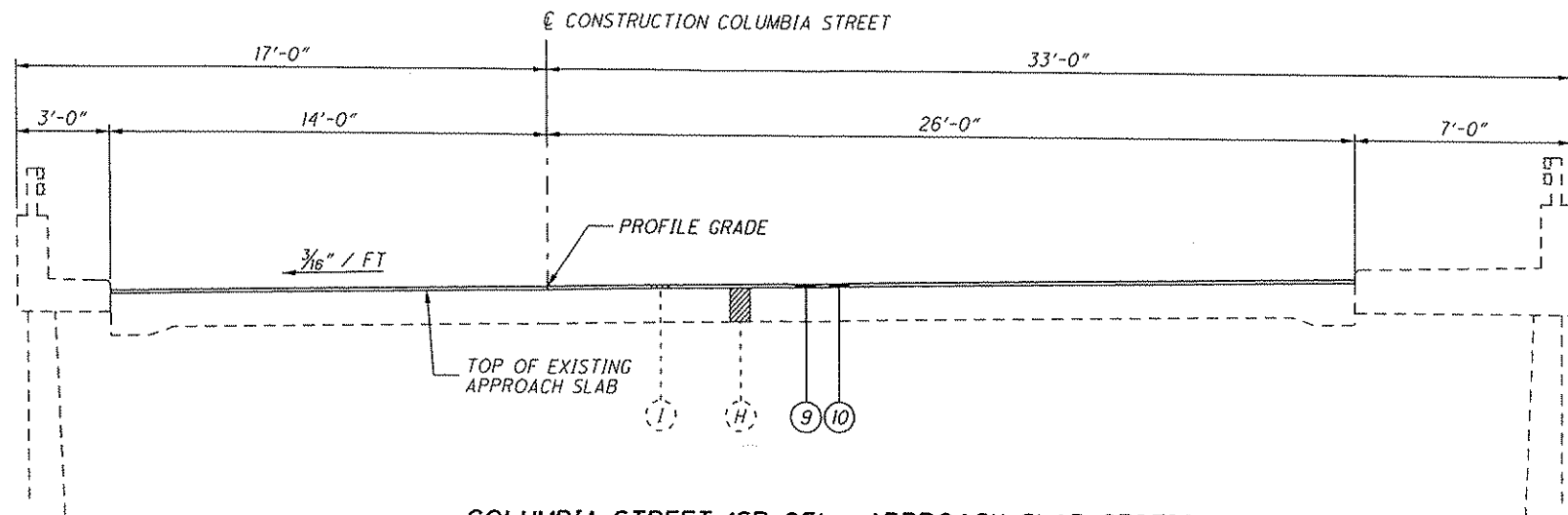
PROSPECT STREET (SR-4D) - NORMAL SECTION  
 STATION 584+11.90 TO STATION 584+73.50 = 61.60 LIN FT

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
  - (H) 13" REINFORCED CONCRETE APPROACH SLAB
  - (I) 1 1/4" ASPHALT CONCRETE
- PROPOSED ITEMS
- ① ITEM 448 - 3" ASPHALT CONCRETE SURFACE COURSE, TYPE IH, (TWO EQUAL LIFTS)
  - ② ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE
  - ④ ITEM 407 - TACK COAT
  - ⑤ ITEM 407 - TACK COAT, 702.13
  - ⑥ ITEM 254 - 3" PAVEMENT PLANING, ASPHALT CONCRETE
  - ⑦ ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR
  - ⑧ ITEM 609 - CONCRETE TRAFFIC ISLAND
  - ⑨ ITEM 848 - 1-1/4" MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION
  - ⑩ ITEM 202 - WEARING COURSE REMOVED

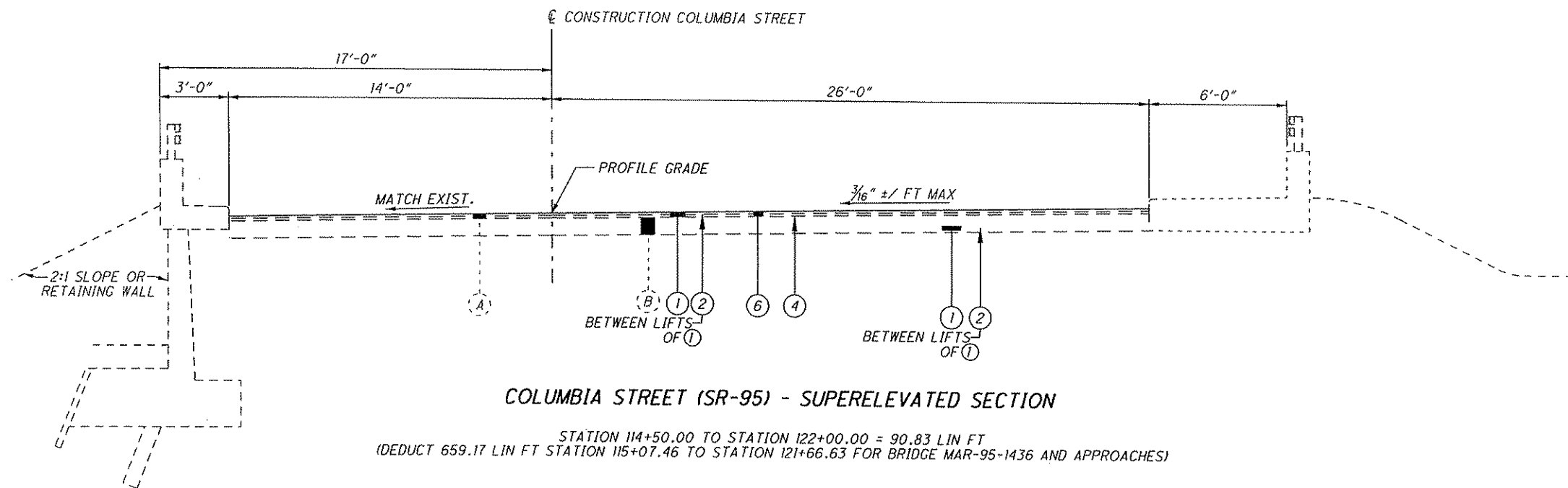
TYPICAL SECTIONS - PROSPECT STREET (SR-4D)

MAR-4D-0.70  
 MAR-95-14.36



COLUMBIA STREET (SR-95) - APPROACH SLAB SECTION

STATION 115+07.46 TO STATION 115+37.46 = 30.00 LIN. FT  
 STATION 121+36.63 TO STATION 121+66.63 = 30.00 LIN. FT



COLUMBIA STREET (SR-95) - SUPERELEVATED SECTION

STATION 114+50.00 TO STATION 122+00.00 = 90.83 LIN FT  
 (DEDUCT 659.17 LIN FT STATION 115+07.46 TO STATION 121+66.63 FOR BRIDGE MAR-95-1436 AND APPROACHES)

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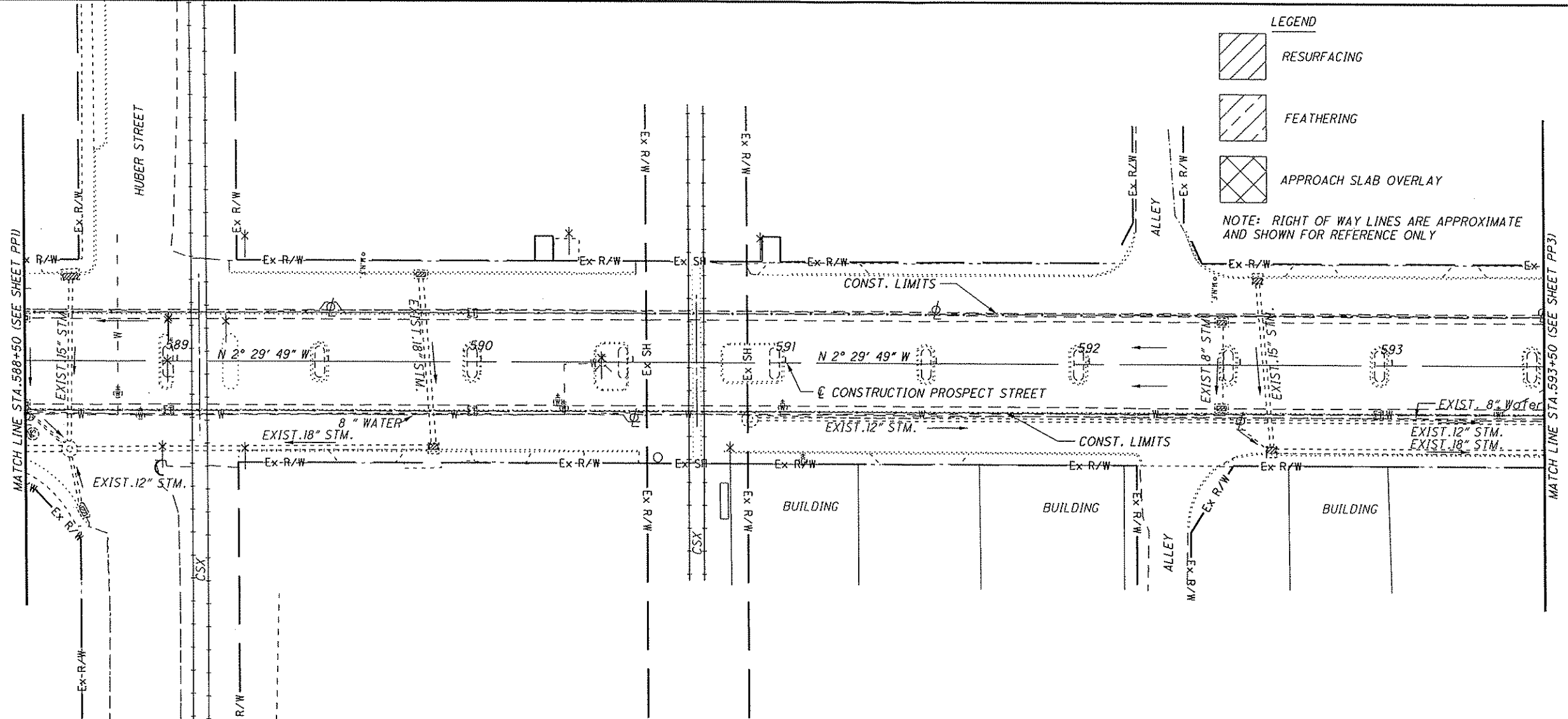
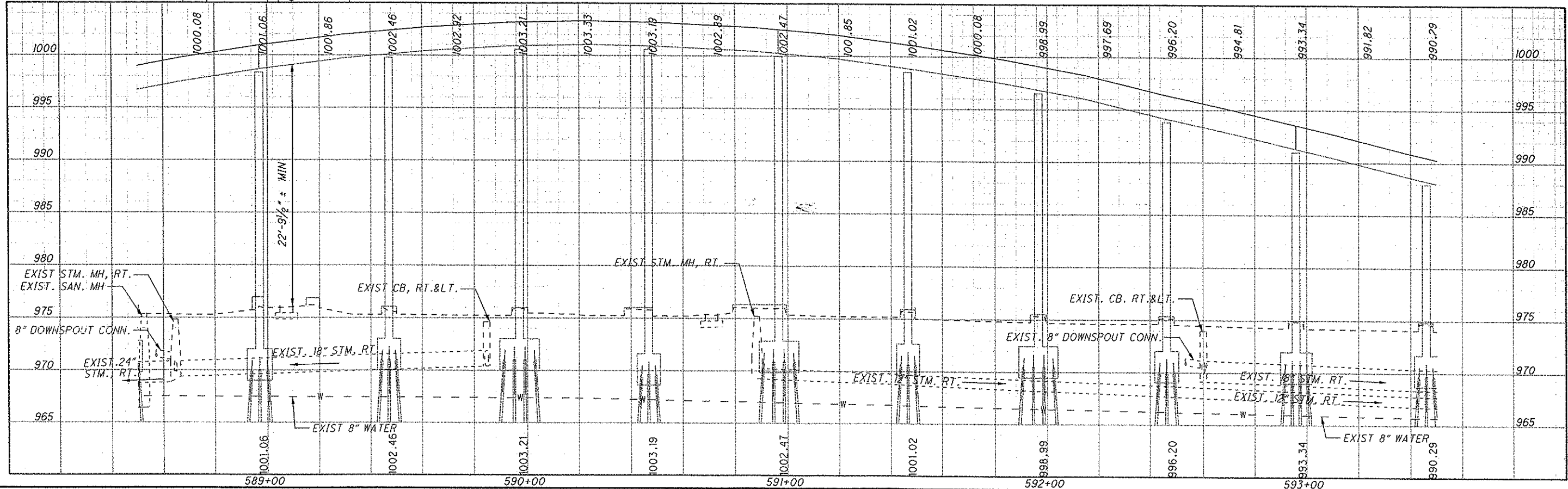
**Palmer** PALMER ENGINEERING  
 13500 CORNELL PARK DR  
 ENGINEERING CINCINNATI, OH 45242  
 CINCINNATI • MIDDLETOWN • LOUISVILLE • HERRICK

TYPICAL SECTIONS - COLUMBIA STREET (SR-95)

MAR-4D-0.70  
 MAR-95-14.36

4/18/2007 1:18:36 PM BY DAN-F  
 \$F ILELS  
 MODEL: \$MODELNAME

Palmer Engineering  
 11300 CORNELL PARK DR  
 CINCINNATI, OH 45242  
 TEL: 513-752-1100 FAX: 513-752-1101



**LEGEND**

- RESURFACING
- FEATHERING
- APPROACH SLAB OVERLAY

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

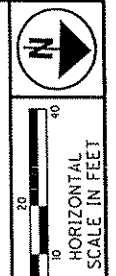
**PP2**

CALCULATED  
 CHECKED

0 10 20  
 HORIZONTAL SCALE IN FEET

**N**

**MAR-4D-0.70 PLAN AND PROFILE PROSPECT STREET (SR 4D)**  
**MAR-95-14.36 STA 588+50 TO STA 593+50**

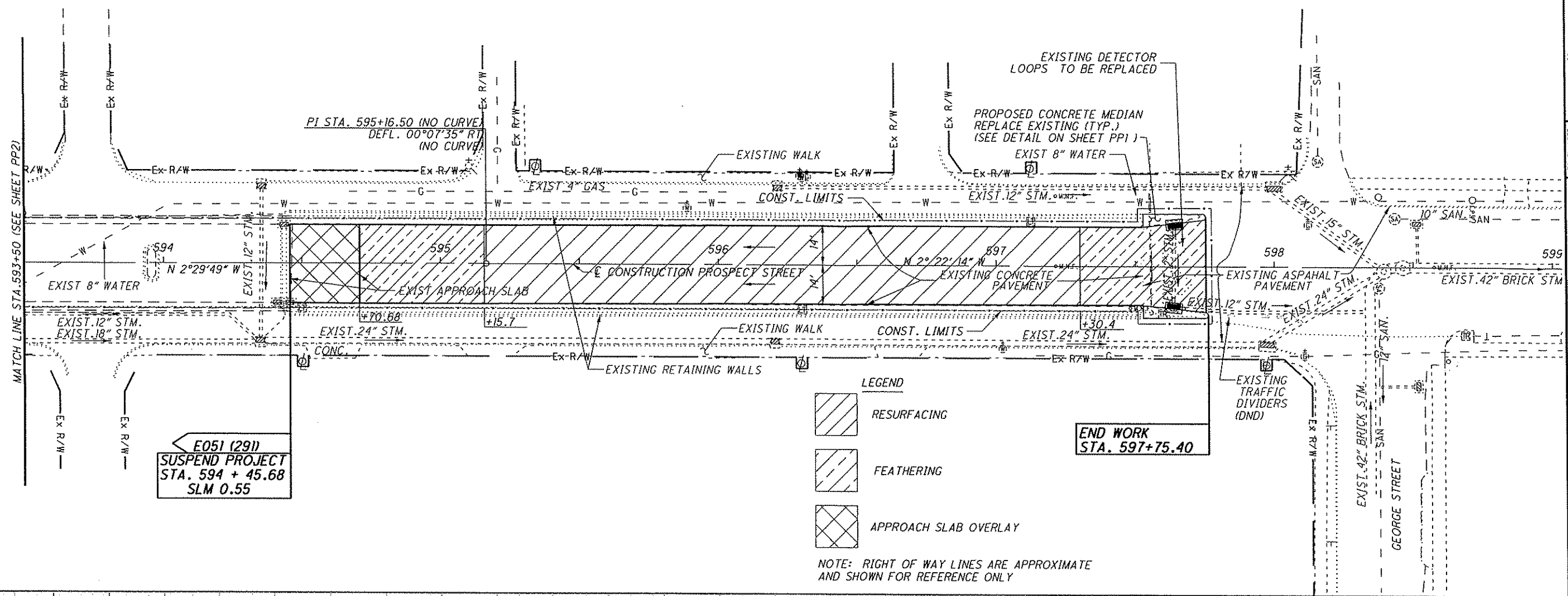


CALCULATED  
CHECKED

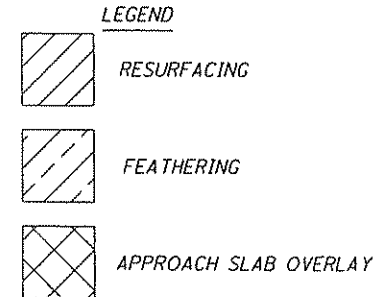
PLAN AND PROFILE PROSPECT STREET (SR 4D)  
STA 593+50 TO STA 599+00

MAR-4D-0.70  
MAR-95-14.36

PP3

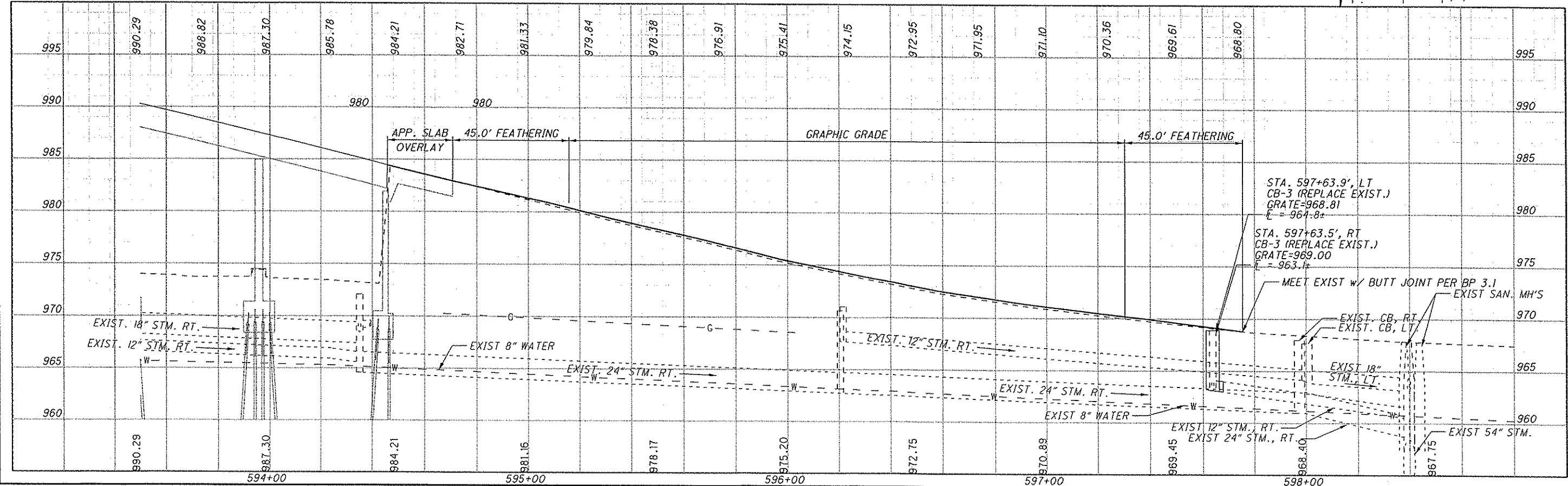


E051 (291)  
SUSPEND PROJECT  
STA. 594 + 45.68  
SLM 0.55



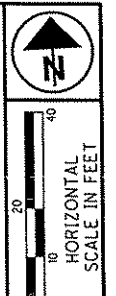
END WORK  
STA. 597+75.40

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



4/17/2007 3:09:56 PM BY DAN-F  
PALMER ENGINEERING  
11500 CORNELL PARK DR  
CINCINNATI, OH 45242  
MODEL: \$MODELNAME\$

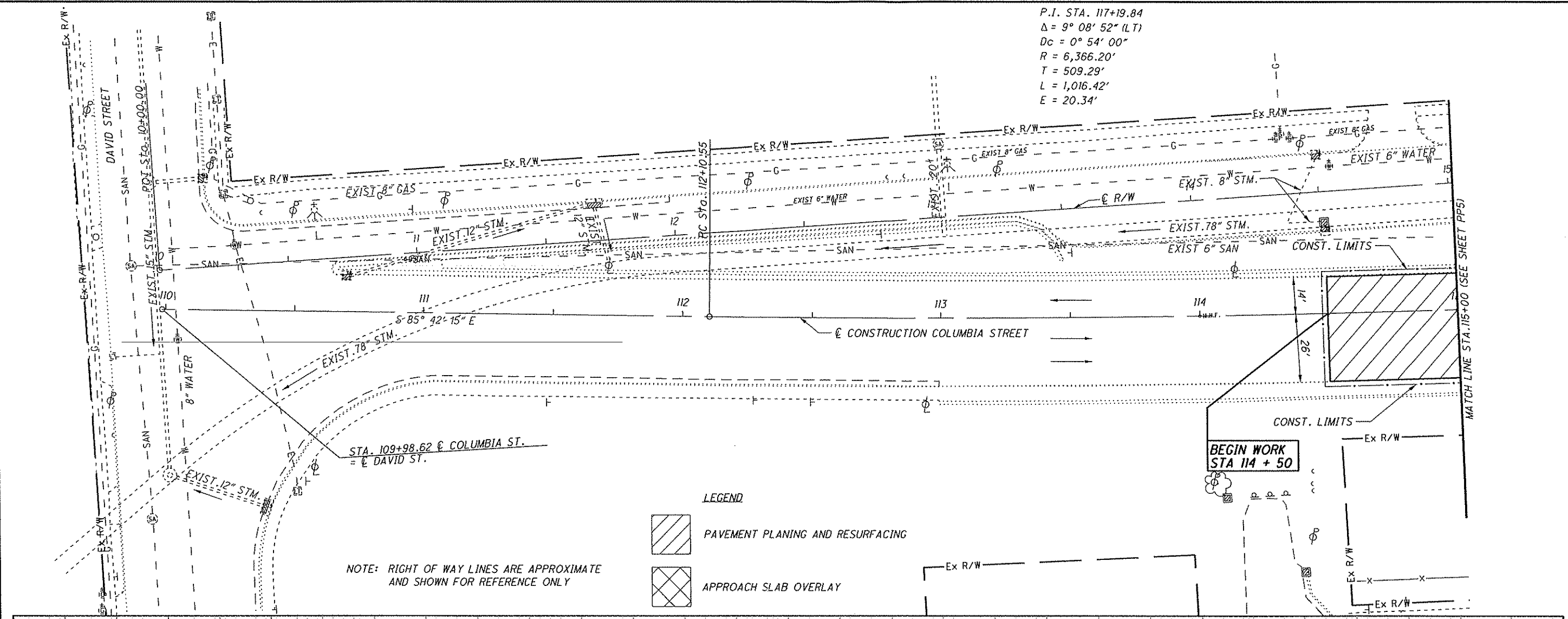
P.I. STA. 117+19.84  
 $\Delta = 9^\circ 08' 52''$  (LT)  
 $D_c = 0^\circ 54' 00''$   
 $R = 6,366.20'$   
 $T = 509.29'$   
 $L = 1,016.42'$   
 $E = 20.34'$



CALCULATED  
 CHECKED

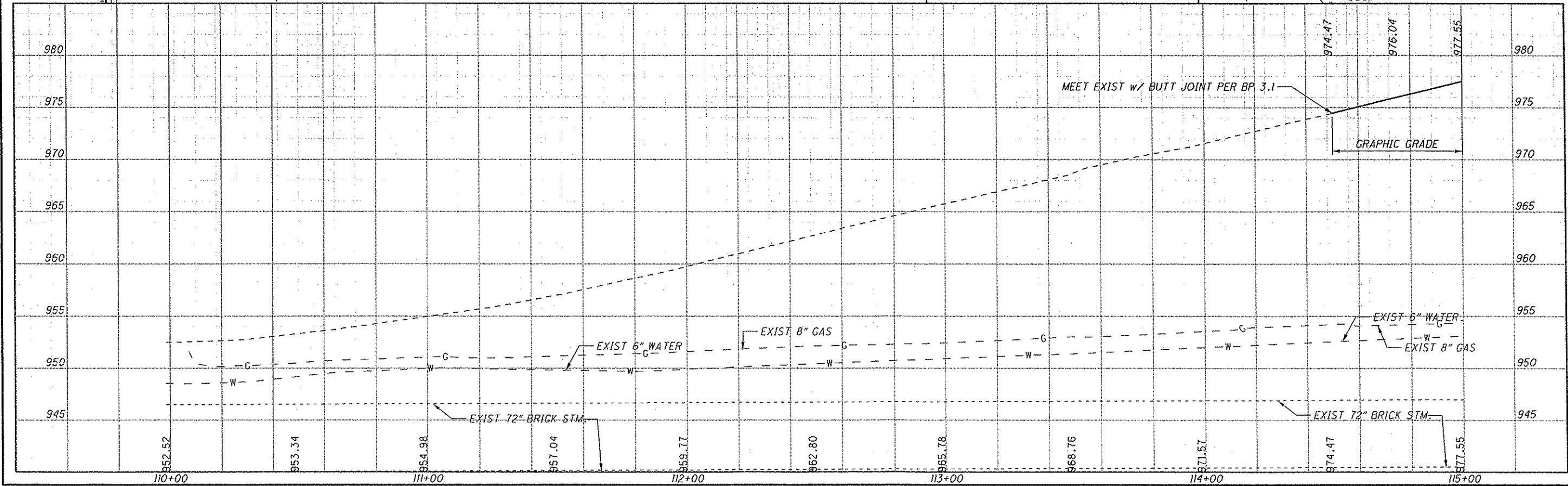
PLAN AND PROFILE COLUMBIA STREET (SR 95)  
 STA 110+00 TO STA 115+00

MAR-4D-0.70  
 MAR-95-14.36



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

- LEGEND
- PAVEMENT PLANING AND RESURFACING
  - APPROACH SLAB OVERLAY



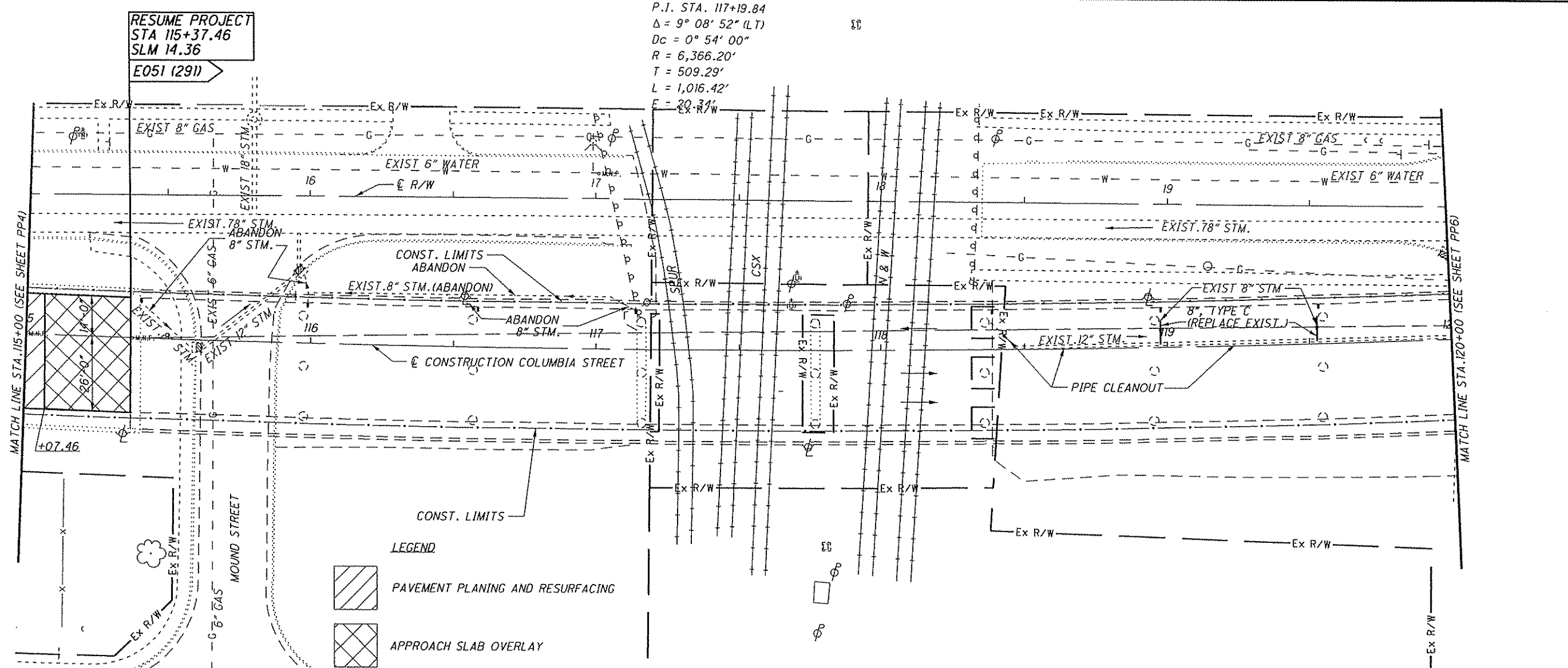
MEET EXIST W/ BUTT JOINT PER BP 3.1

GRAPHIC GRADE

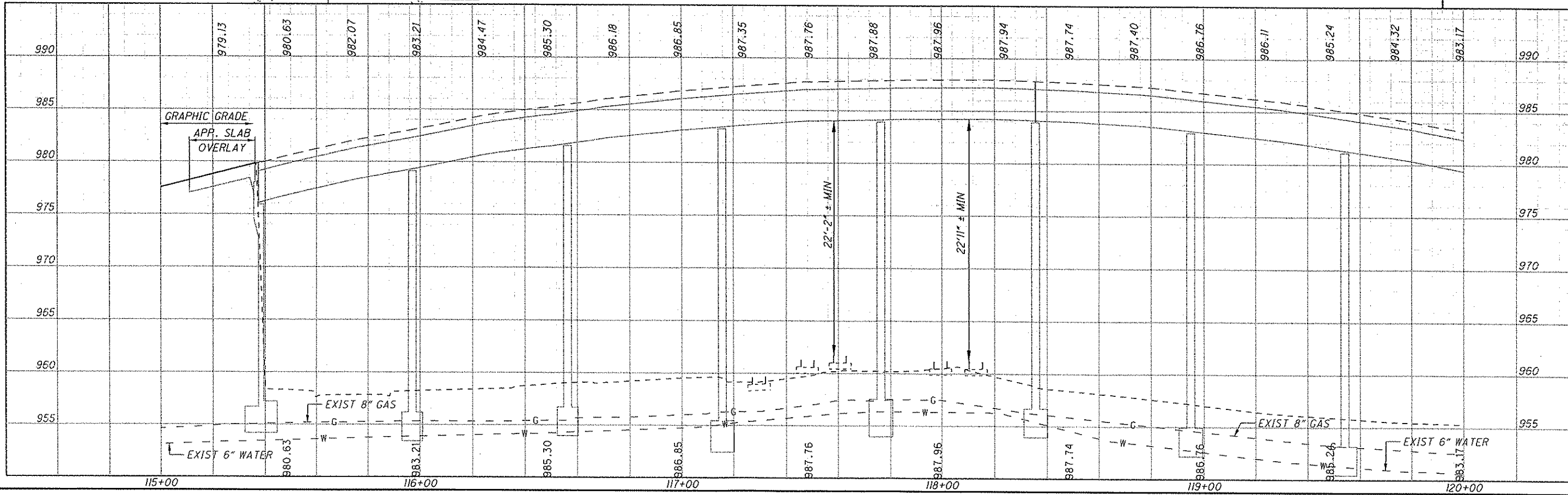
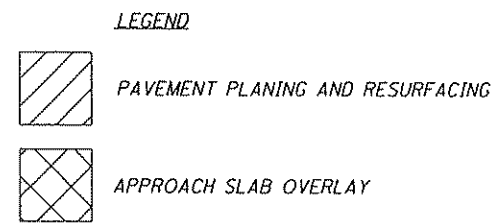


4/17/2007 3:10:08 PM BY: DAN-F  
 8 FILEL9  
 MODEL: 9MODELNAME9

**Palmer Engineering**  
 13500 CORNELL PARK DR  
 CINCINNATI, OH 45242  
 \* CINCINNATI \* MARYSVILLE \* LOUISVILLE \*



P.I. STA. 117+19.84  
 $\Delta = 9^\circ 08' 52''$  (LT)  
 $Dc = 0^\circ 54' 00''$   
 $R = 6,366.20'$   
 $T = 509.29'$   
 $L = 1,016.42'$   
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**PLAN AND PROFILE COLUMBIA STREET (SR 95)**  
 STA 115+00 TO STA 120+00

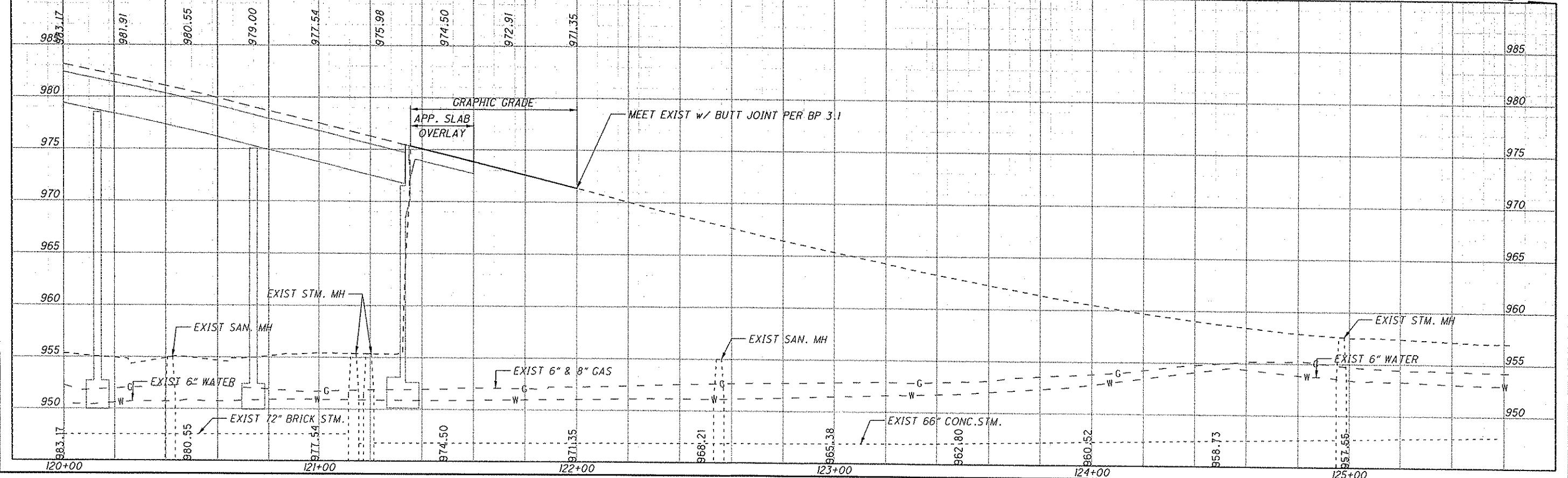
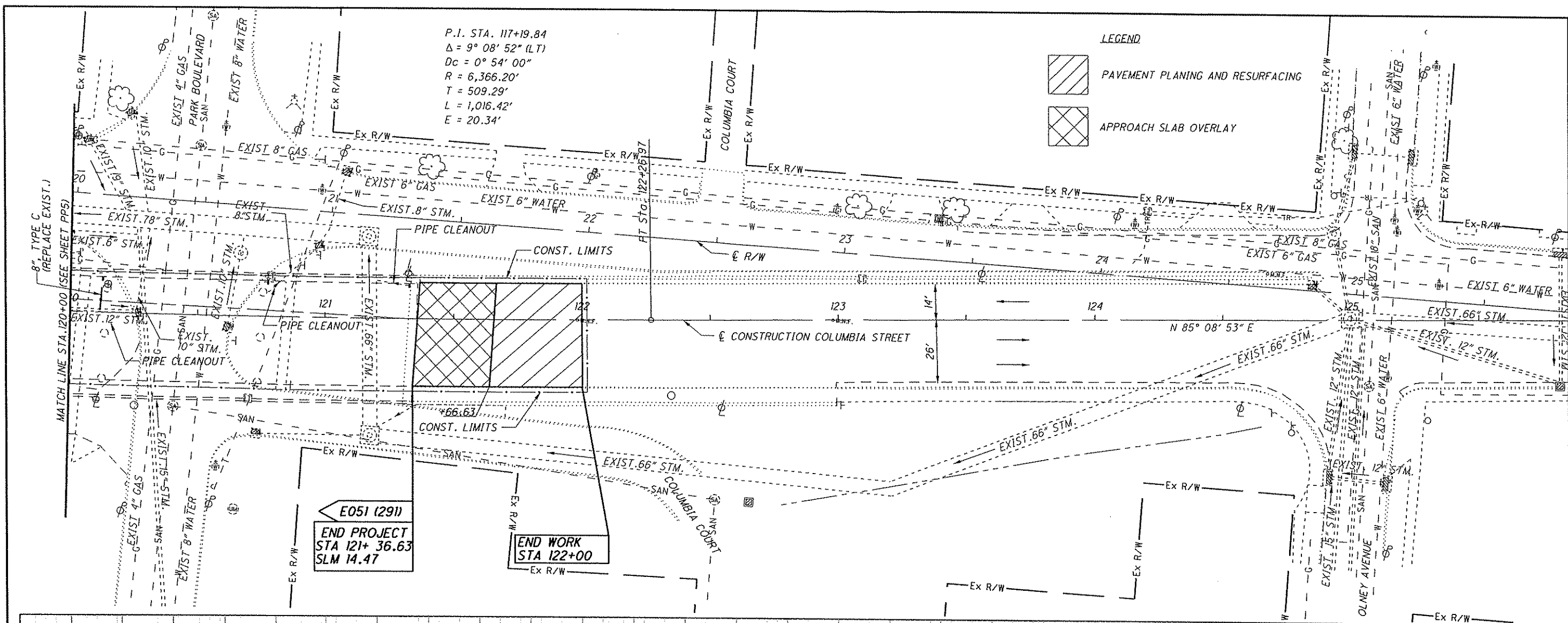
**MAR-4D-0.70**  
**MAR-95-14.36**

PP5

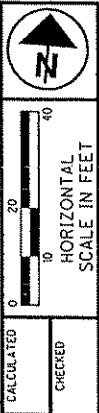
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 HORIZONTAL SCALE IN FEET

CALCULATED  
 CHECKED

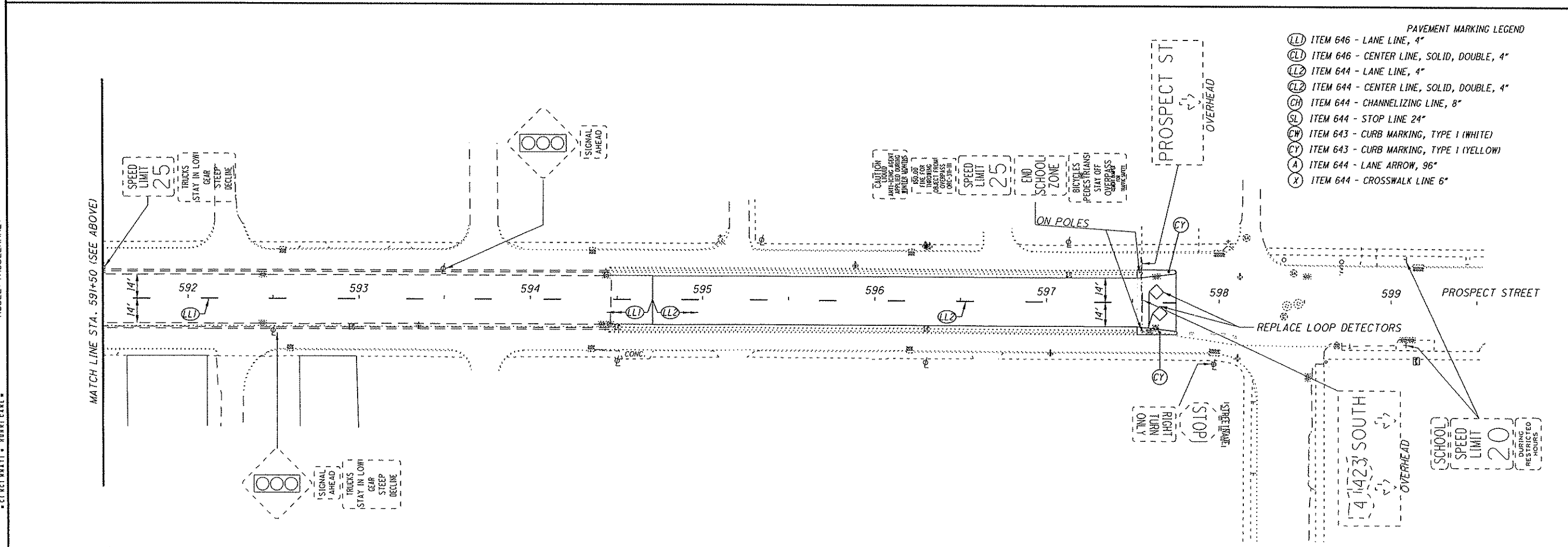
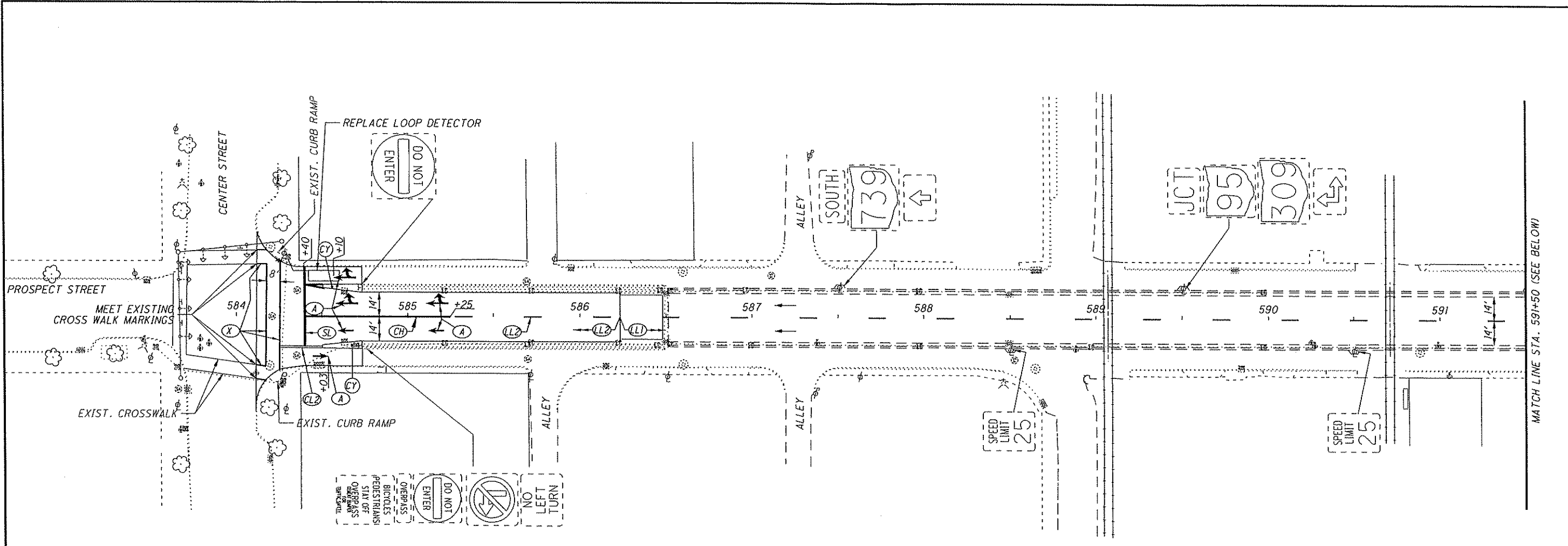
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 PALMER ENGINEERING  
 13300 CORNELL PARK DR  
 ENGINEERING CINCINNATI, OH 45242  
 CINCINNATI, OH 45242



MAR-4D-0.70  
 MAR-95-14.36  
 PLAN AND PROFILE COLUMBIA STREET (SR 95)  
 STA 120+00 TO STA 126+00



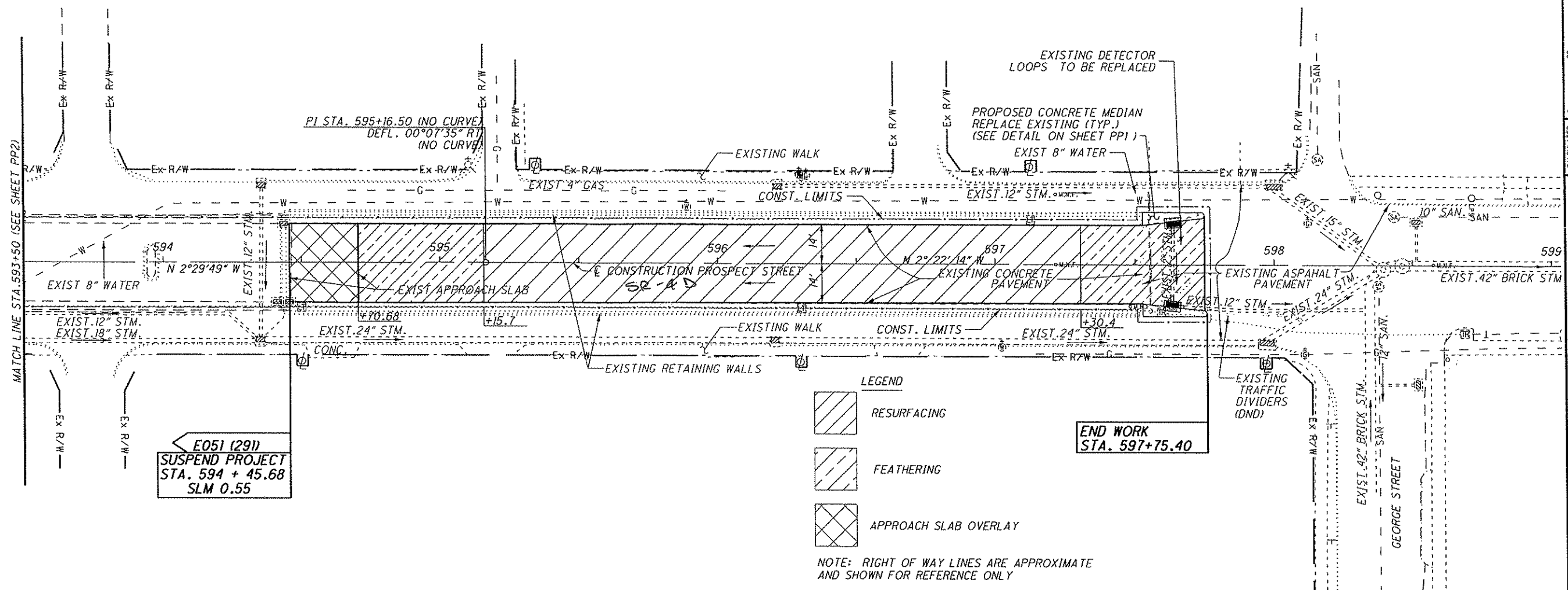
PP6



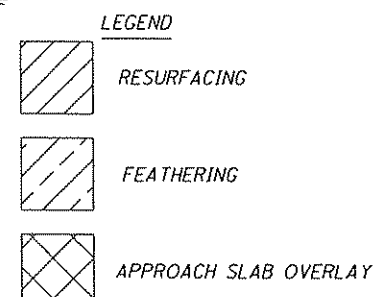
- PAVEMENT MARKING LEGEND**
- (LL) ITEM 646 - LANE LINE, 4"
  - (CL) ITEM 646 - CENTER LINE, SOLID, DOUBLE, 4"
  - (LZ) ITEM 644 - LANE LINE, 4"
  - (CLZ) ITEM 644 - CENTER LINE, SOLID, DOUBLE, 4"
  - (CH) ITEM 644 - CHANNELIZING LINE, 8"
  - (SL) ITEM 644 - STOP LINE 24"
  - (CW) ITEM 643 - CURB MARKING, TYPE I (WHITE)
  - (CY) ITEM 643 - CURB MARKING, TYPE I (YELLOW)
  - (A) ITEM 644 - LANE ARROW, 96"
  - (X) ITEM 644 - CROSSWALK LINE 6"

4/17/2007 3:09:56 PM BY: DAN-F  
 #FILEL#  
 MODEL: SNOBELNAME#

PALMER ENGINEERING  
 1000 CORNELL PARK DR  
 ENGINEERING CINCINNATI, OH 45242  
 VINCENT ST. CINCINNATI, OH 45219

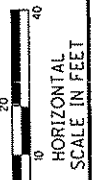
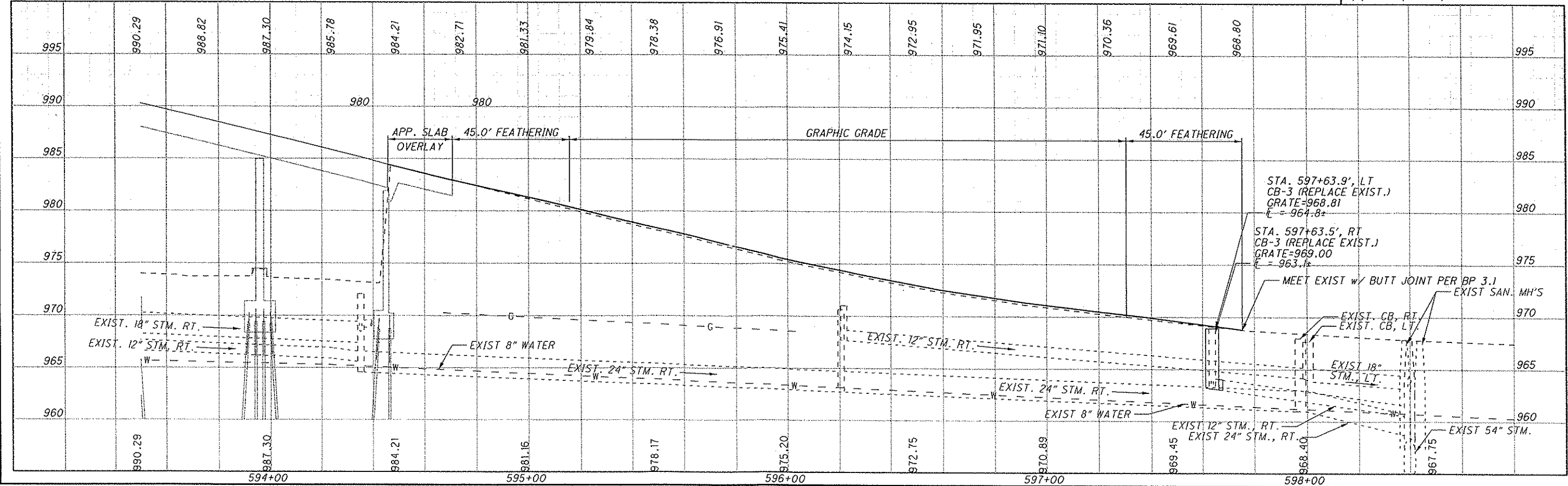


E051 (29)  
 SUSPEND PROJECT  
 STA. 594 + 45.68  
 SLM 0.55



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

END WORK  
 STA. 597+75.40



CALCULATED  
 CHECKED

PLAN AND PROFILE PROSPECT STREET (SR 4D)  
 STA 593+50 TO STA 599+00

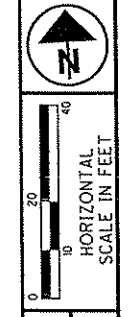
MAR-4D-0.70  
 MAR-95-14.36

PP3

4/19/2007 12:56:02 PM BY: DAN-F  
 #FILEL\$  
 MODEL: \$MODELNAME\$

**Palmer Engineering**  
 1300 CORNELL PARK DR  
 CINCINNATI, OH 45242  
 CINCINNATI • MARIETTA • LOUISVILLE

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

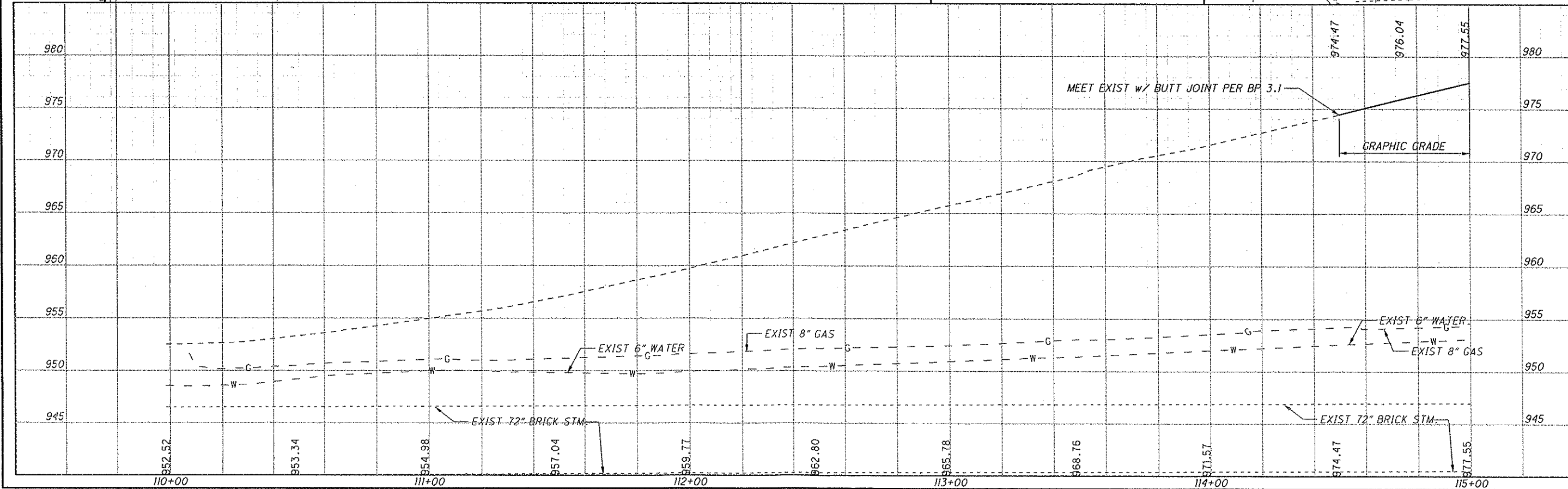
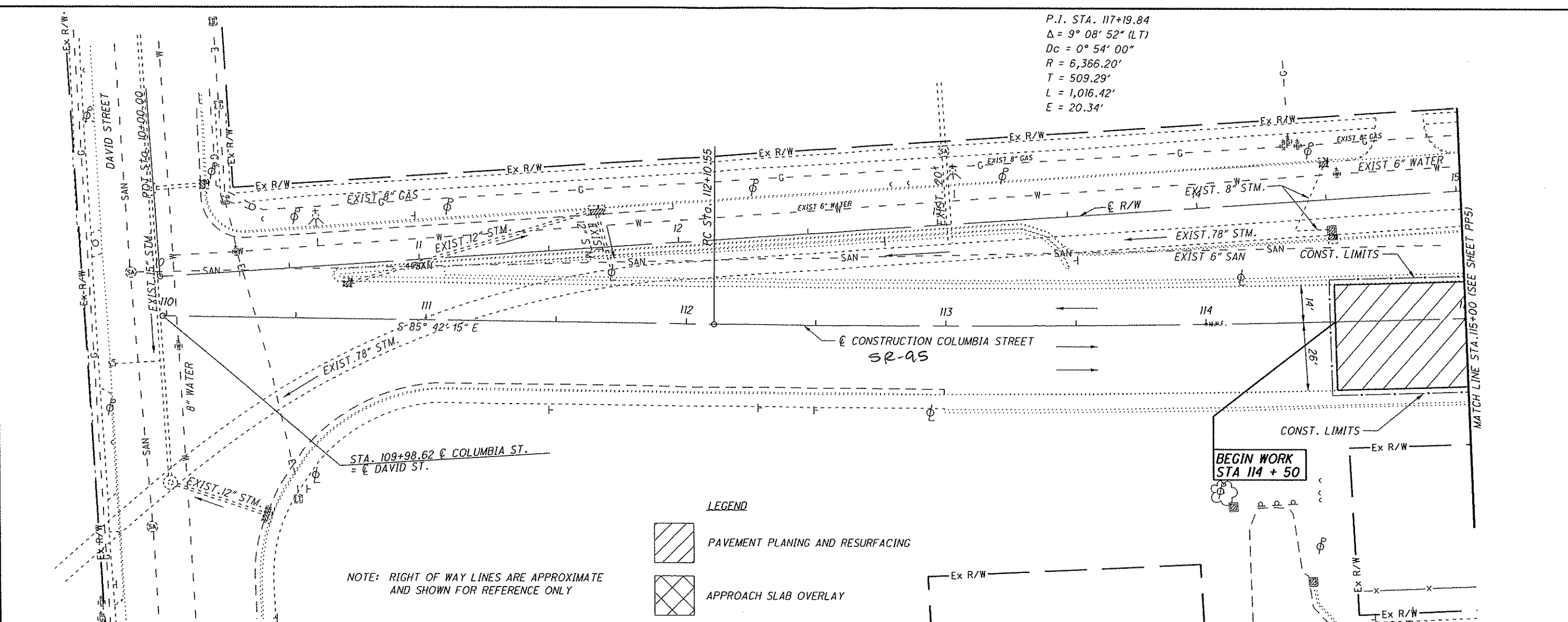


CALCULATED  
 CHECKED

PLAN AND PROFILE COLUMBIA STREET (SR 95)  
 STA 110+00 TO STA 115+00

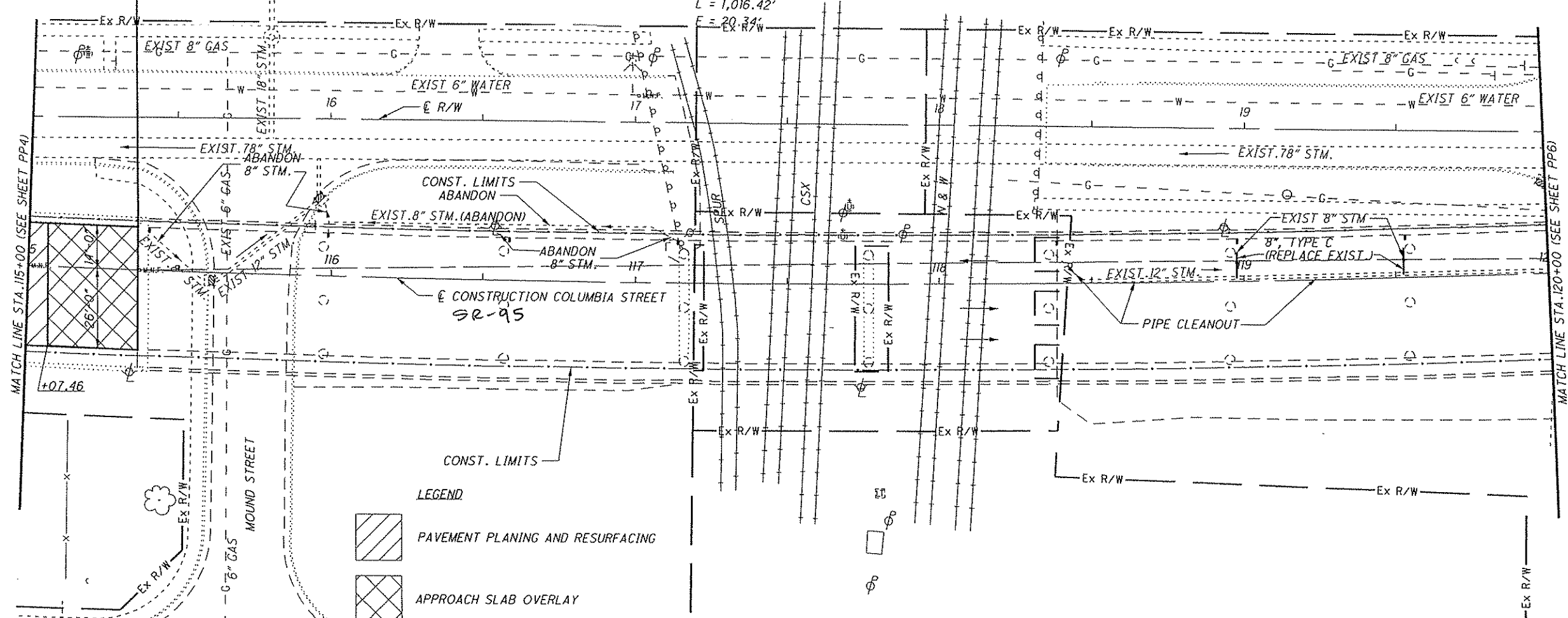
MAR-4D-0.70  
 MAR-95-14.36

PP4



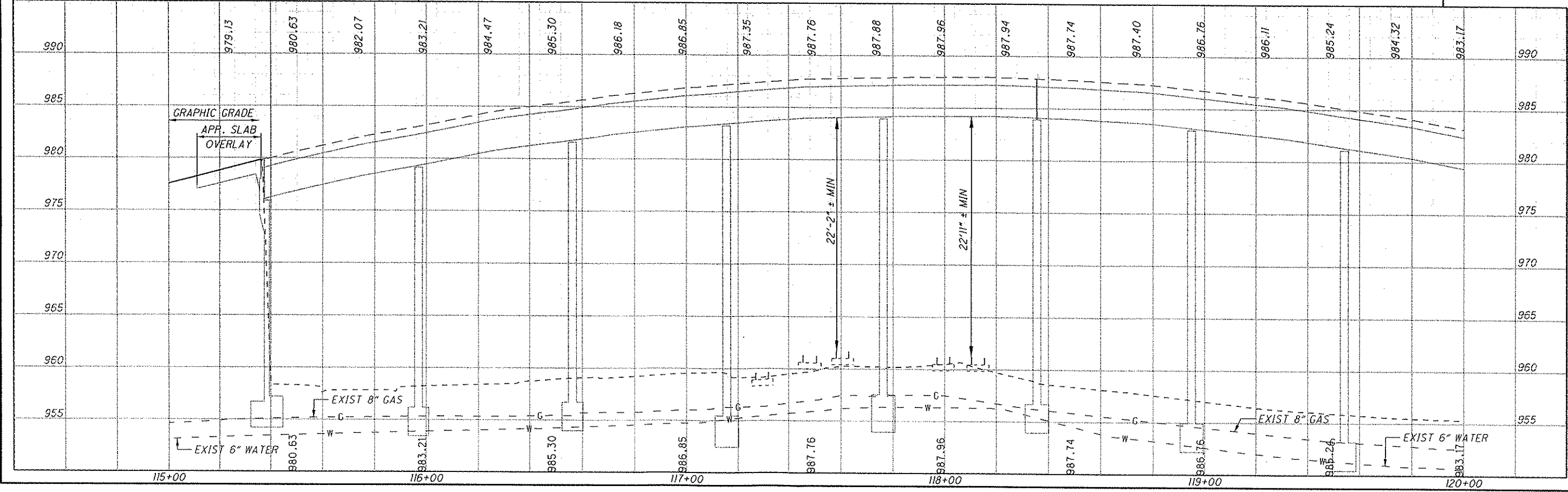
RESUME PROJECT  
 STA 115+37.46  
 SLM 14.36  
 E051 (291)

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



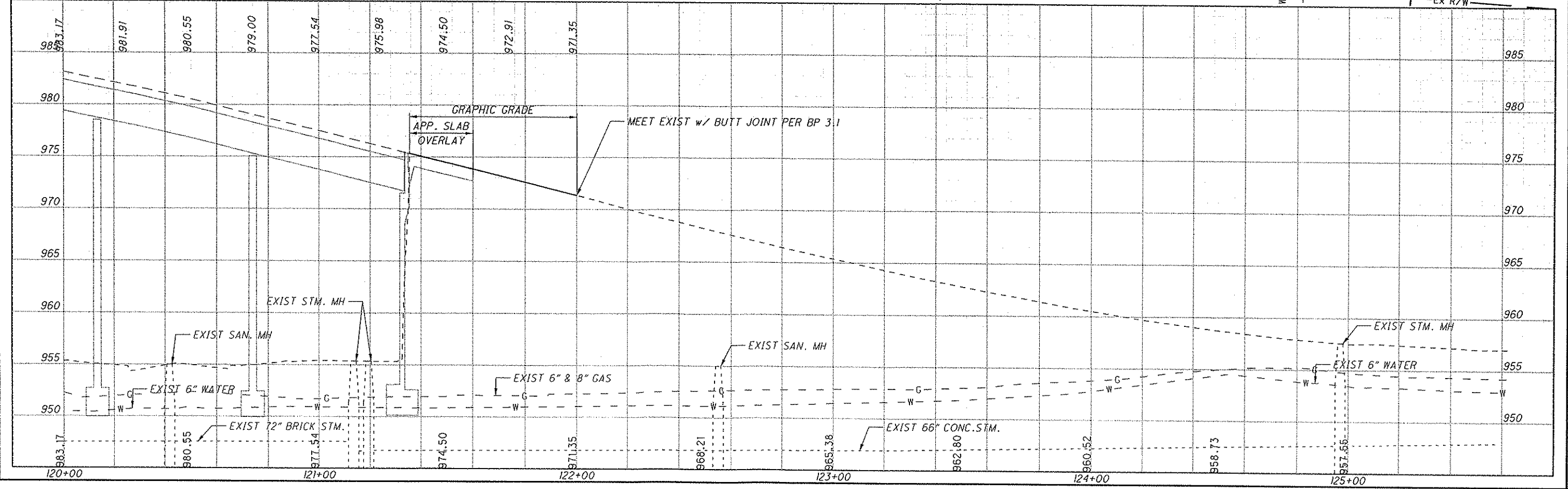
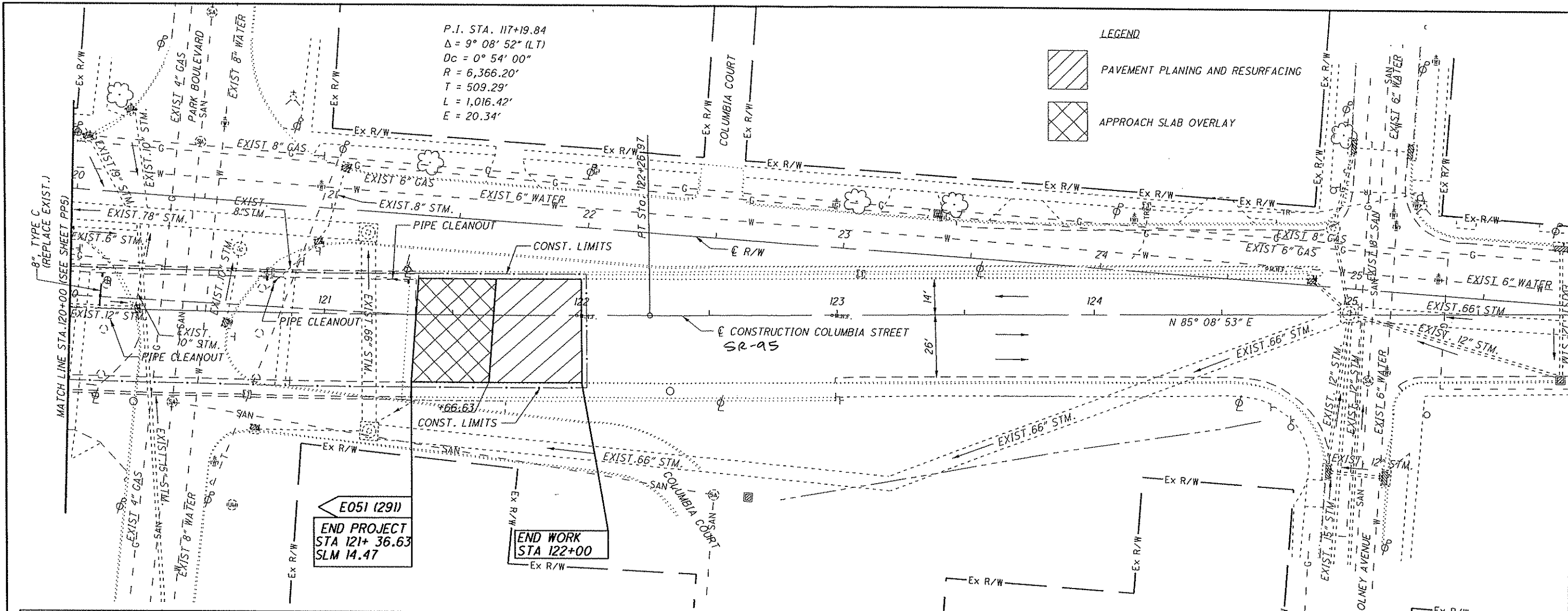
LEGEND

- PAVEMENT PLANING AND RESURFACING
- APPROACH SLAB OVERLAY



4/17/2007 3:10:14 PM BY: DAN-F  
 \$FILEL\$  
 MODEL: \$MODELNAME\$

**Palmer Engineering**  
 1500 CORNELL PARK DR  
 CINCINNATI, OH 45242  
 TEL: 513-752-1000 FAX: 513-752-1001  
 WWW.PALMERENGINEERING.COM



**MAR-4D-0.70**  
**MAR-95-14.36**

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

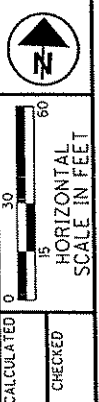
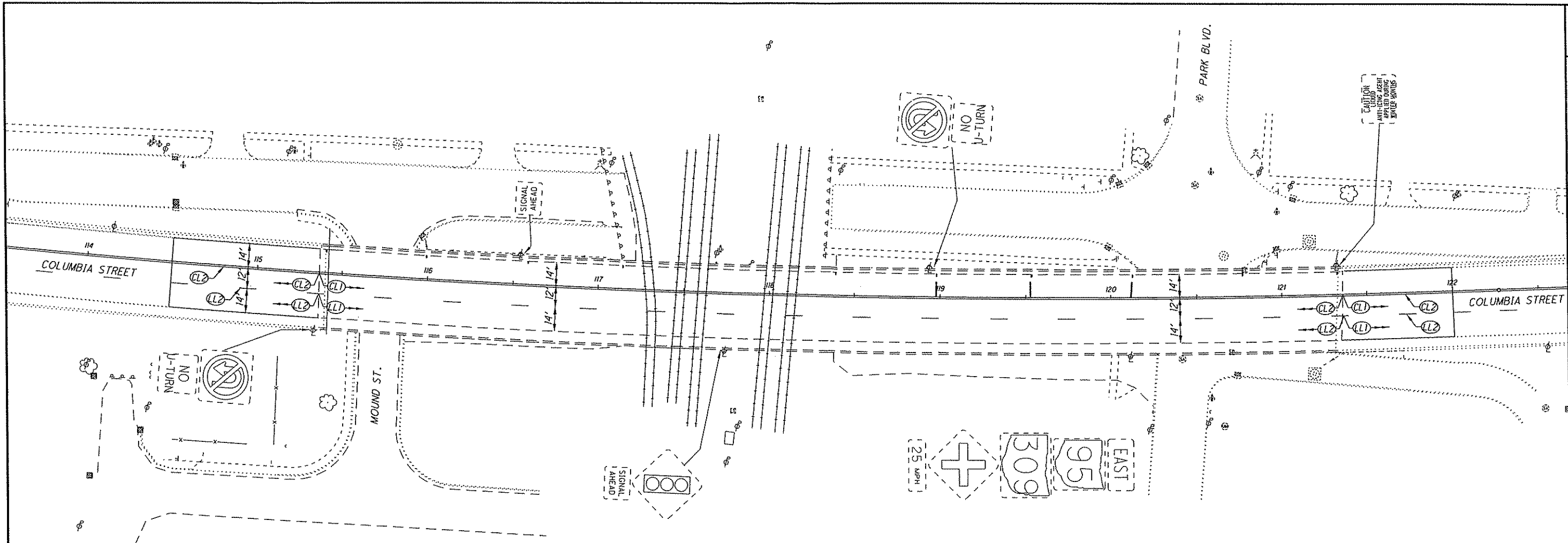
PP6

CHECKED  
 CALCULATED

HORIZONTAL SCALE IN FEET  
 0 10 20 40

4/17/2007 3:10:29 PM BY: DAN-F  
 9F ILEL \$  
 MODEL: \$MODELNAME\$

**Palmer Engineering**  
 18300 CORNELL PARK DR  
 CINCINNATI, OH 45242  
 CINCINNATI, OH 45242



CALCULATED  
 CHECKED

**TRAFFIC CONTROL PLAN  
 COLUMBIA STREET**

**MAR-4D-0.70  
 MAR-95-14.36**

TC2

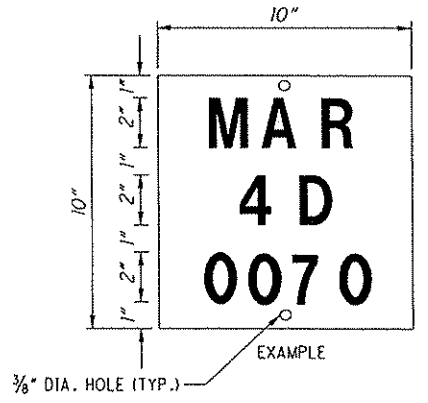
**ITEM 630-SIGN, FLAT SHEET, AS PER PLAN  
 ITEM 630-GROUND MOUNTED SUPPORT, NO. 2 POST**

THESE ITEMS SHALL BE USED TO PLACE NEW STRUCTURE IDENTIFICATION SIGNS AT THE FOLLOWING STRUCTURES:

MAR-4D-0070  
 MAR-95-1436

EACH SIGN SHALL BE ATTACHED TO THE CONCRETE PARAPET WITH CONCRETE ANCHORS AT THE RIGHT, REAR (AND FORWARD LEFT IF TWIN BRIDGES) LOCATION. IF THE BRIDGE DOES NOT HAVE A CONCRETE PARAPET, THE SIGN SHALL BE POST MOUNTED TO ONE NEW NO. 2 POST AS PER CONSTRUCTION DRAWING TC-41.20, MOST CURRENT REVISION USING TWO 5/16" ALUMINUM BOLTS 2-1/2" IN LENGTH. THE POST SHALL BE 7'-0" LONG.

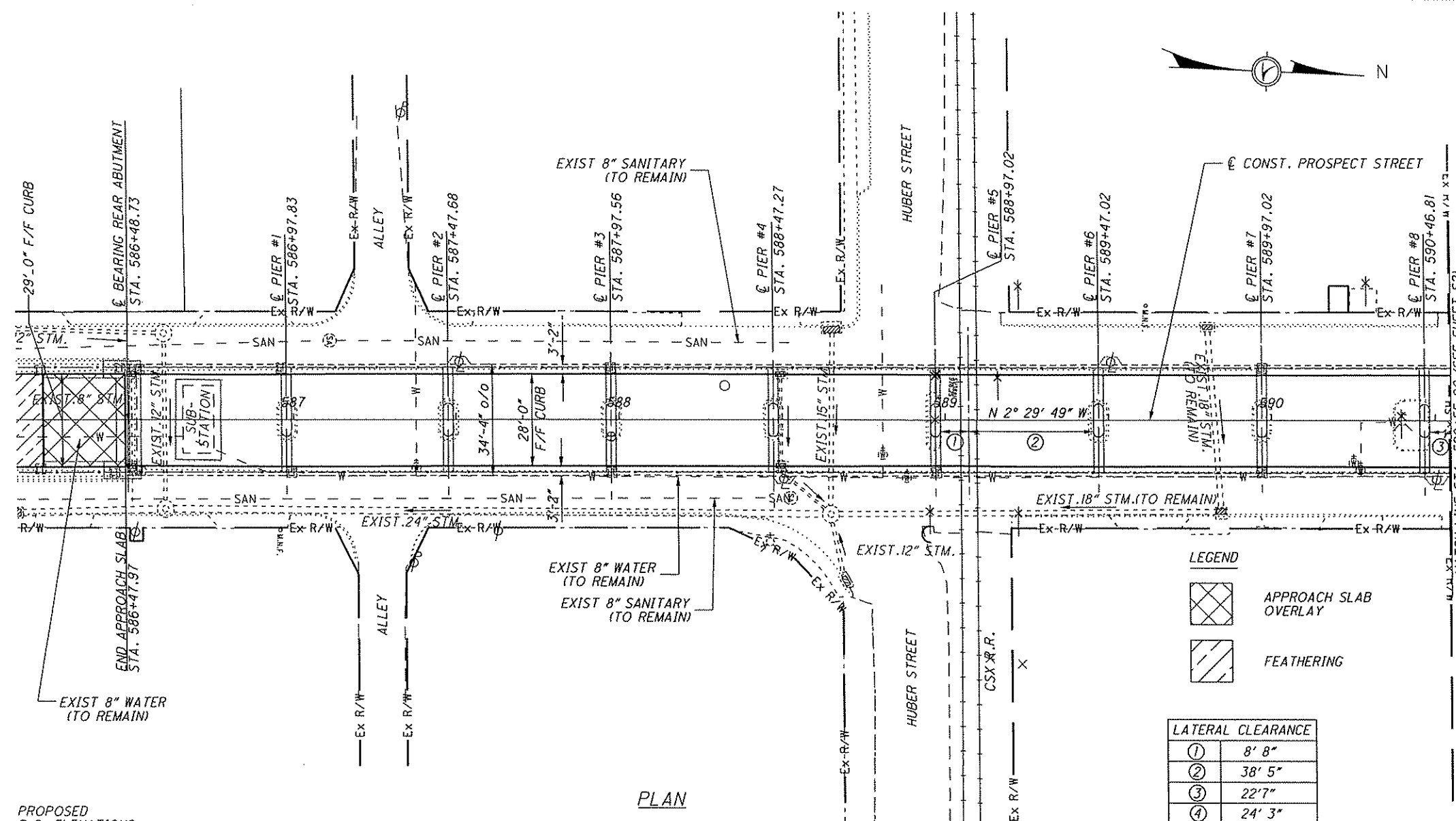
SIGNS SHALL BE SIZED AS PER THE EXAMPLE. SIGNS SHALL BE ALUMINUM AND HAVE A NON-REFLECTIVE WHITE SHEETING BACKGROUND AS PER CMS 730.20. THE LETTERS SHALL BE BLACK 2" IN HEIGHT, SERIES C STROKE WIDTH, AND SILK SCREENED AS PER CMS 730.22.



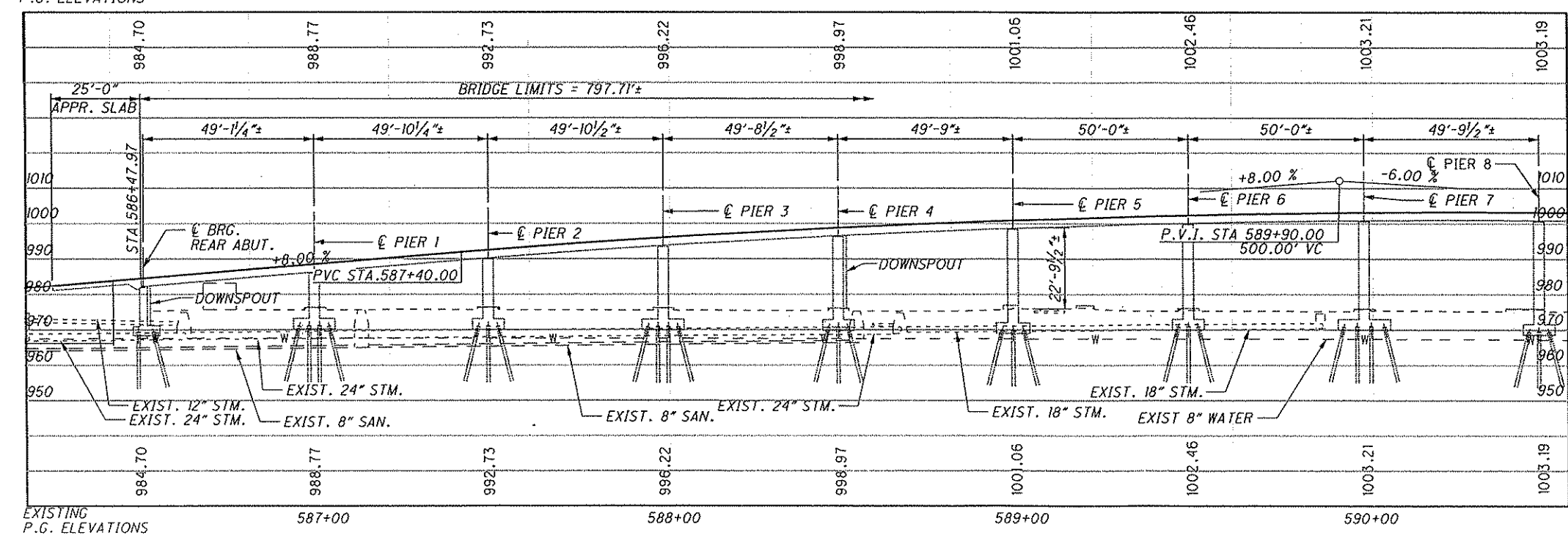


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 MODEL SHEET

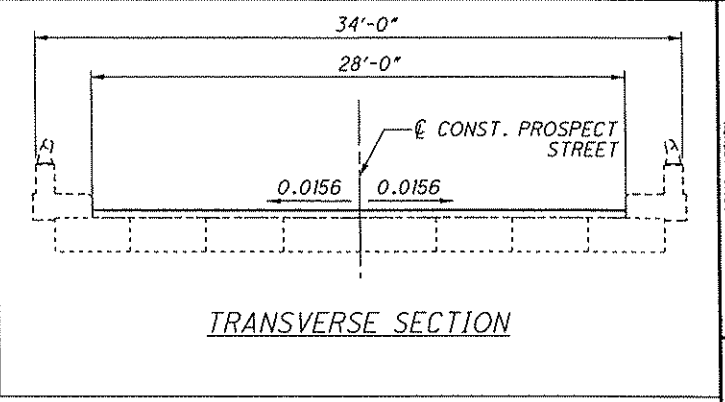
PALMER ENGINEERING  
 11300 CORNELL PARK DR  
 CINCINNATI, OH 45242  
 ENGINEERING



PLAN



PROFILE ALONG CENTERLINE OF CONSTRUCTION PROSPECT STREET



TRANSVERSE SECTION

**BENCHMARK DATA**

BM #1 STA. 597+48.16	ELEV. 970.07	OFFSET 14.90 RT
BM #2 STA. 584+75.22	ELEV. 975.55	OFFSET 15.28 RT
BM #3 STA. 587+97.53	ELEV. 978.02	OFFSET 5.12 RT

FOR ADDITIONAL BENCHMARK INFORMATION, SEE ROADWAY PLAN SHEET 2

- NOTES:**
- 1.) EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
  - 2.) DATUM ADJUSTMENT: EXISTING STRUCTURE ELEVATIONS ARE 0.80'± LOWER THAN THOSE SHOWN ON THE ORIGINAL CONSTRUCTION PLANS.
- 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  
 LOADING: S20-60  
 SKEW: NONE  
 APPROACH SLABS: AS-1-54, 25' LONG  
 WEARING SURFACE: LATEX MODIFIED CONCRETE  
 ALIGNMENT: TANGENT  
 CROWN: NORMAL  
 STRUCTURAL FILE NUMBER: 5100240  
 DATE BUILT: 1968  
 DISPOSITION: FAIR

**PROPOSED STRUCTURE**

TYPE: EXISTING PRESTRESSED CONCRETE BOX BEAMS (CB21-48) WITH EXISTING COMPOSITE CONCRETE DECK ON EXISTING REINFORCED CONCRETE PIERS AND ABUTMENTS WITH NEW 1/4" MICROSILICA CONCRETE OVERLAY. FOR PROPOSED WORK, SEE SHEET S2/S21.

SPANS: SAME  
 ROADWAY: 28'-0"  
 LOADING: N/A  
 SKEW: SAME  
 APPROACH SLABS: SAME  
 WEARING SURFACE: MICROSILICA CONCRETE OVERLAY  
 ALIGNMENT: SAME  
 CROWN: .0156 FT/FT  
 COORDINATES: LATITUDE N 40° 35' 25"  
 LONGITUDE W 87° 07' 50"

DESIGN AGENCY: PALMER ENGINEERING  
 PROJECT: 11300 CORNELL PARK DR CINCINNATI, OH 45242  
 ENGINEERING CONTRACT NO. 79938

DATE: 4/07  
 REVIEWED: B J F  
 DRAWN: V H K  
 DESIGNED: W A H  
 CHECKED: B J F

MARION COUNTY  
 STA. 586+47.97  
 STA. 594+45.68

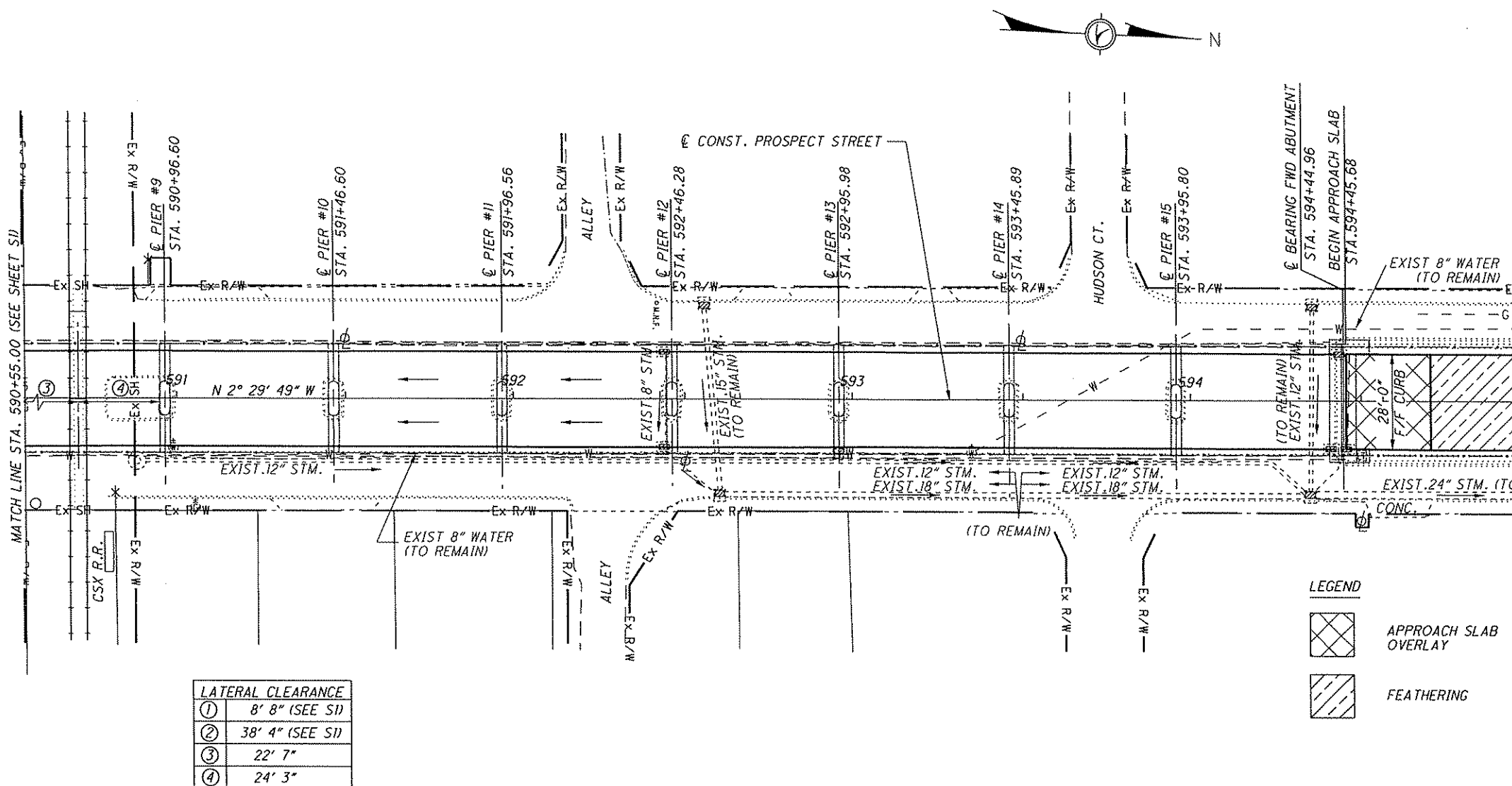
**SITE PLAN**  
 MAR-4D-0070  
 PROSPECT STREET OVER CSX RAILROAD

MAR-4D-0.70  
 MAR-95-14.36  
 PID No. 79938

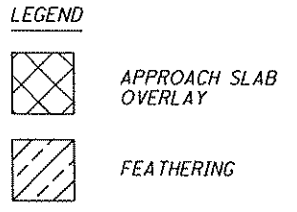
S1  
 S21

4/18/2007 3:14:25 PM BY WENDY  
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 MODEL SHEET

PALMER ENGINEERING  
 11300 CORNELL PARK DR  
 CINCINNATI, OH 45242  
 (513) 752-1100



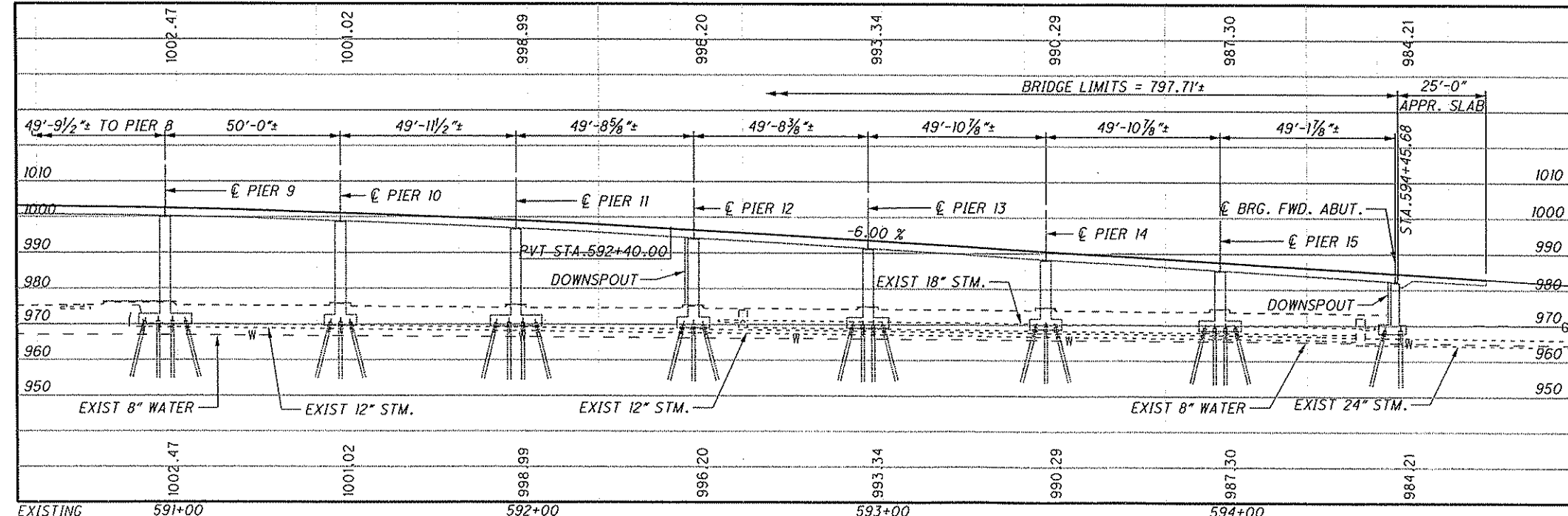
LATERAL CLEARANCE	
①	8' 8" (SEE S1)
②	38' 4" (SEE S1)
③	22' 7"
④	24' 3"



**PROPOSED WORK**

1. REMOVE EXISTING LATEX MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION AND REPLACE WITH A 1/4" MICRO-SILICA CONCRETE OVERLAY.
2. PATCH EXISTING CONCRETE SAFETY CURB AND PARAPETS.
3. SEAL SAFETY CURB, SIDEWALK, PARAPETS AND EXTERIOR BEAMS, AS SHOWN IN THE PLANS WITH EPOXY-URETHANE SEALER. COLOR SHALL BE FEDERAL COLOR No.595B-17778 (LIGHT NEUTRAL).
4. REPLACE THE EXISTING STRIP SEAL GLANDS AT BOTH ABUTMENTS, PIER 4, PIER 8, AND PIER 12.
5. CLEAN DEBRIS FROM EXISTING SCUPPERS AND DOWNSPOUTS AT THE REAR ABUTMENT, PIERS 4 AND 12 AND THE FORWARD ABUTMENT.
6. REMOVE ASPHALT FROM EXISTING APPROACH SLABS AND OVERLAY WITH MICRO-SILICA. (SEE ROADWAY PLANS)
7. REPAIR DETERIORATED CONCRETE ON PIERS AND ABUTMENTS BY PATCHING WITH ITEM 519 PATCHING CONCRETE STRUCTURES.
8. INSTALL BRIDGE MARKER SIGNS. (SEE ROADWAY PLANS)
9. REPLACE OR RESET MISSING OR DISLOCATED BEARING PADS.
10. REPAIR APPROACH PAVEMENT CONCRETE AND PAVE WITH ASPHALT OVERLAY.
11. CLEAN THE SPALLED AREA ON BEAM 8 AND SEAL WITH EPOXY-URETHANE SEALER AS SHOWN IN THE PLANS.

**PROPOSED P.G. ELEVATIONS**



PROFILE ALONG  $\phi$  CONSTRUCTION PROSPECT STREET

DESIGN AGENCY  
 PALMER ENGINEERING  
 11300 CORNELL PARK DR  
 CINCINNATI, OH 45242  
 (513) 752-1100

DATE 4/07  
 FILE NUMBER 1240

REVIEWED B.J.F.  
 STRIP

DRAWN V.H.K.  
 REVISED

DESIGNED W.A.H.  
 CHECKED B.J.F.

MARION COUNTY  
 STA. 586+47.97  
 STA. 594+45.68

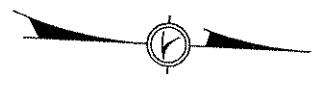
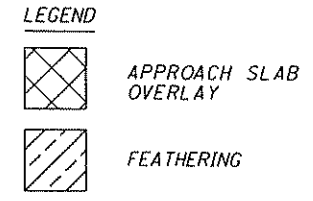
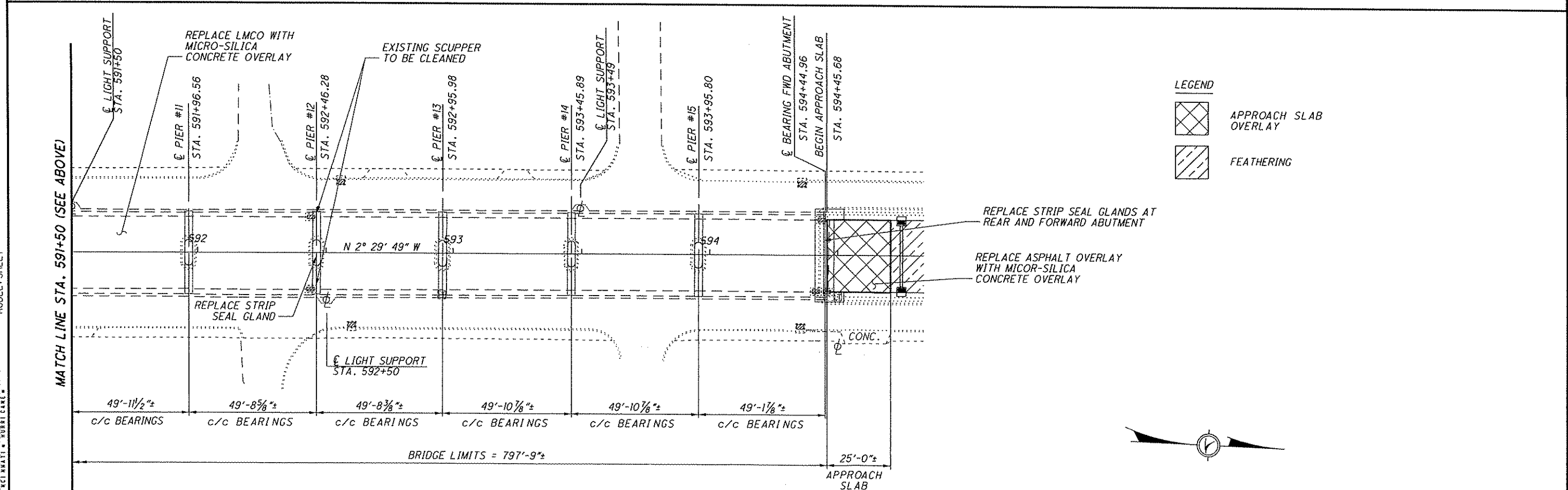
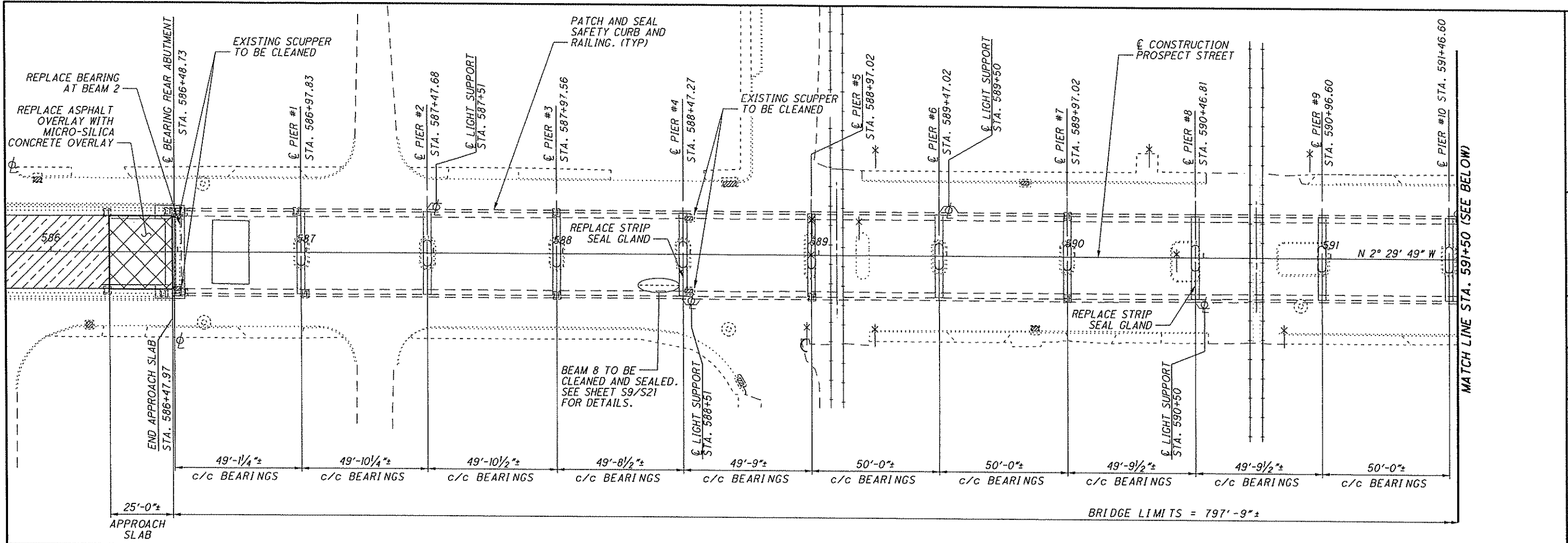
**SITE PLAN**  
 MAR-4D-0070  
 PROSPECT STREET OVER CSX RAILROAD

**MAR-4D-070**  
**MAR-95-14.36**  
 PID No. 79938

S2  
 S21

4/18/2007 3:30:26 PM BY:WENDY  
 01\0001\MAR\79938\BRIDGE\MAR004\_00700\001.DGN  
 MODEL SHEET

PALMER ENGINEERING  
 11300 CORNELL PARK DR  
 CINCINNATI, OH 45242  
 WWW.PALMERENGINEERING.COM



GENERAL PLAN

DESIGN AGENCY <b>Palmer Engineering</b> 11300 CORNELL PARK DR CINCINNATI, OH 45242 WWW.PALMERENGINEERING.COM	DATE	4/07
	REVIEWED	BJF
DESIGNED	DRAWN	DF
	CHECKED	BJF
GENERAL PLAN		FILE NUMBER
MAR-4D-0070		290
PROSPECT STREET OVER CSX RAILR.		
MAR-4D-0.70	PID No. 79938	
MAR-95-14.36		
S3	S21	

REFERENCE SHALL BE MADE TO STANDARD DRAWINGS)

EXJ-5-93 DATED (REVISED) 07-19-02

AND TO SUPPLEMENTAL SPECIFICATIONS:

843 DATED (REVISED) 04-18-03

848 DATED (REVISED) 04-15-05

**DECK PROTECTION METHOD**

MICRO-SILICA CONCRETE OVERLAY  
EPOXY SEAL CURBS AND PARAPETS

**EXISTING STRUCTURE VERIFICATION**

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05 AND 105.02.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

**ITEM 516 - REFURBISHING BEARING DEVICES, AS PER PLAN**

THIS ITEM SHALL INCLUDE ALL WORK NECESSARY TO PROPERLY ALIGN BRIDGE BEARINGS AT BOTH ABUTMENTS, PIERS 3, 7 AND 8 AND ANY OTHER MISALIGNED BEARINGS. INCLUDED SHALL BE INSTALLATION OF ANY NECESSARY STEEL SHIMS OF THE SAME SIZE AS THE BEARINGS TO PROVIDE A SNUG FIT. ASSURE ALL BEARINGS ARE SHIMMED ADEQUATELY AND THAT NO BEAMS AND OR BEARINGS ARE "FLOATING". ALL WORK SHALL BE TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR ALL OF THE ABOVE DESCRIBED LABOR AND MATERIALS WILL BE MADE AT THE CONTRACT PRICE BID FOR ITEM 516-REFURBISH BEARING DEVICES, AS PER PLAN.

**ITEM 516 - ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE), AS PER PLAN**

THIS SHALL ONLY APPLY TO BEAM 2 BEARING AT REAR ABUTMENT. FOR BEARING PLAN NOTES, SEE SHEET S9/S21.

**ITEM 516 - ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS, AS PER PLAN**

STRIP SEALS SHALL BE WABO SE-800 OR D.S. BROWN L2-400. THIS STRIP SEAL GLAND MUST BE CONTINUOUS AND INSTALLED IN ONE PIECE.

**ITEM 518 STRUCTURE DRAINAGE, MISC: CLEANING SCUPPERS AND DOWNSPOUTS**

THIS SHALL APPLY TO CLEANING THE DRAINAGE SCUPPERS AND DOWNSPOUTS AT THE REAR ABUTMENT, PIERS #4 AND #12, AND THE FORWARD ABUTMENT. THE CONTRACTOR MAY CLEAN THE DOWNSPOUTS USING HIGH PRESSURE WATER, OR OTHER METHOD APPROVED BY THE ENGINEER, THAT DOES NOT DAMAGE THE SCUPPERS OR DOWNSPOUTS. AFTER CLEANING, THE SCUPPERS AND DOWNSPOUTS MUST DRAIN FREELY AND TO THE APPROVAL OF THE ENGINEER. PAYMENT FOR THIS WORK, INCLUDING ALL LABOR, MATERIALS AND EQUIPMENT WILL BE MADE IN THE CONTRACT PRICE BID FOR ITEM 518, STRUCTURE DRAINAGE, MISC. ESTIMATED QUANTITIES OF SCUPPERS AND DOWNSPOUTS TO BE CLEANED ARE:  
LINEAL FT OF DOWNSPOUTS = 107  
NUMBERS OF SCUPPERS = 8

**ITEM 519 - PATCHING CONCRETE STRUCTURES AS PER PLAN**

PRIOR TO THE SURFACE CLEANING SPECIFIED IN 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING. THIS ITEM SHALL ALSO INCLUDE THE RESTORATION OF ANY PAINTED SIGNS ON THE BRIDGE SUBSTRUCTURE THAT WILL BE DAMAGED BY THIS PATCHING. PAYMENT FOR ALL WORK, INCLUDING LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO RETURN THE SIGNS TO PRE-CONSTRUCTION CONDITION WILL BE MADE IN THE CONTRACT PRICE BID FOR ITEM 519, PATCHING CONCRETE STRUCTURES AS PER PLAN.

**ITEM 530 SPECIAL-STRUCTURE MISC: BEAM REPAIR**

THIS ITEM SHALL APPLY TO THE SPALLED AREA ON BEAM 8 IN SPAN 4. THE CONTRACTOR SHALL REMOVE ANY LOOSE CONCRETE THAT COULD POSE A FALLING HAZARD USING HAND TOOLS OR AS DIRECTED BY THE ENGINEER. THE EXPOSED AREA SHALL BE SEALED WITH EPOXY-URETHANE SEALER. COLOR SHALL BE FEDERAL COLOR NO. 595B-17778 (LIGHT NEUTRAL). PAYMENT FOR THIS WORK, INCLUDING ALL LABOR, MATERIALS AND EQUIPMENT WILL BE MADE IN THE CONTRACT PRICE BID FOR ITEM 530 SPECIAL-STRUCTURE MISC.

**RAILROAD**

REPAIRS OF DETERIORATED CONCRETE ON PIER 5 THRU PIER 9 WILL REQUIRE FULL TIME RAILROAD FLAGGING.

DECK HYDRO-DEMOLITION ON SPAN 6 AND SPAN 9 WILL REQUIRE FULL TIME RAILROAD FLAGGING.

SEALING OF CONCRETE PARAPETS IN SPAN 6 AND SPAN 9 WILL REQUIRE FULL TIME RAILROAD FLAGGING.

**ENVIRONMENTAL CONSIDERATIONS**

NO TOXIC OR HAZARDOUS MATERIALS SUCH AS SEALANT, 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 WITH IN 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.

UNAVOIDABLE CUTTING OF ANY TREES WHICH MAY PROVIDE SUITABLE ROOSTING OR BROOD-REARING HABITAT FOR THE SPECIES (i.e. LIVING OR STANDING DEAD TREES OR SNAGS WITH EXFOLIATING, PEELING OR LOOSE BARK, SPLIT TRUNKS AND/OR BRANCHES, OR CAVITIES) WILL BE PERFORMED ONLY BEFORE APRIL 15 OR AFTER SEPTEMBER 15 WHEN THE SPECIES WOULD NOT BE USING SUCH HABITAT.

HOURS OF CONSTRUCTION EQUIPMENT OPERATION WILL BE FROM 8am TO 6pm.

4/19/2007 10:24:00 AM BY:WENDY  
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MODEL: SHEET

**Palmer Engineering**  
13300 CORNELL PARK DR  
CINCINNATI, OH 45242  
P.O. BOX 10000  
CINCINNATI, OH 45242

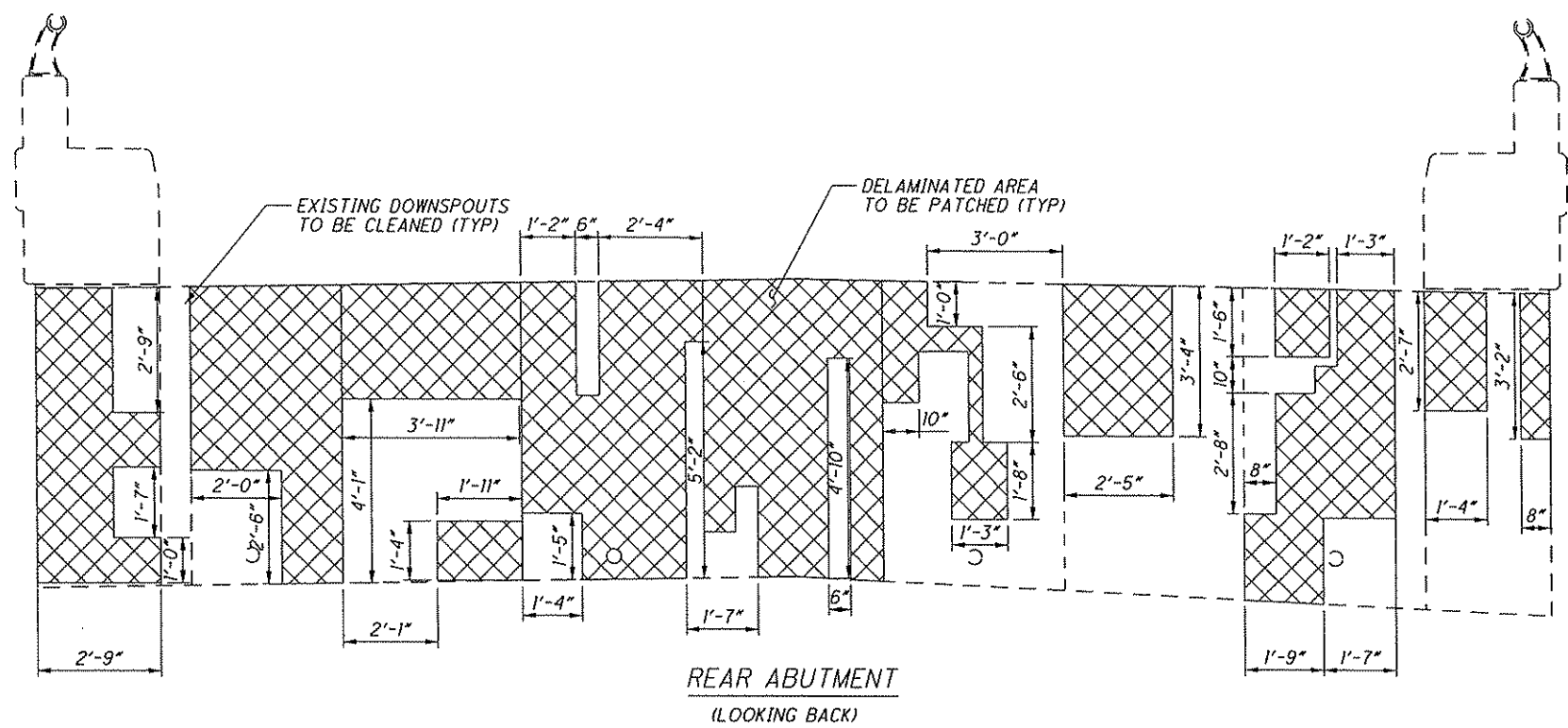
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**Palmer Engineering**  
13300 CORNELL PARK DR  
CINCINNATI, OH 45242  
P.O. BOX 10000  
CINCINNATI, OH 45242

DESIGNED	WAH	CHECKED	WAH
DRAWN	KJD	REVIEWED	KJD
REVIEWED	BJF	DATE	4/07
FILE NUMBER	STP		0240

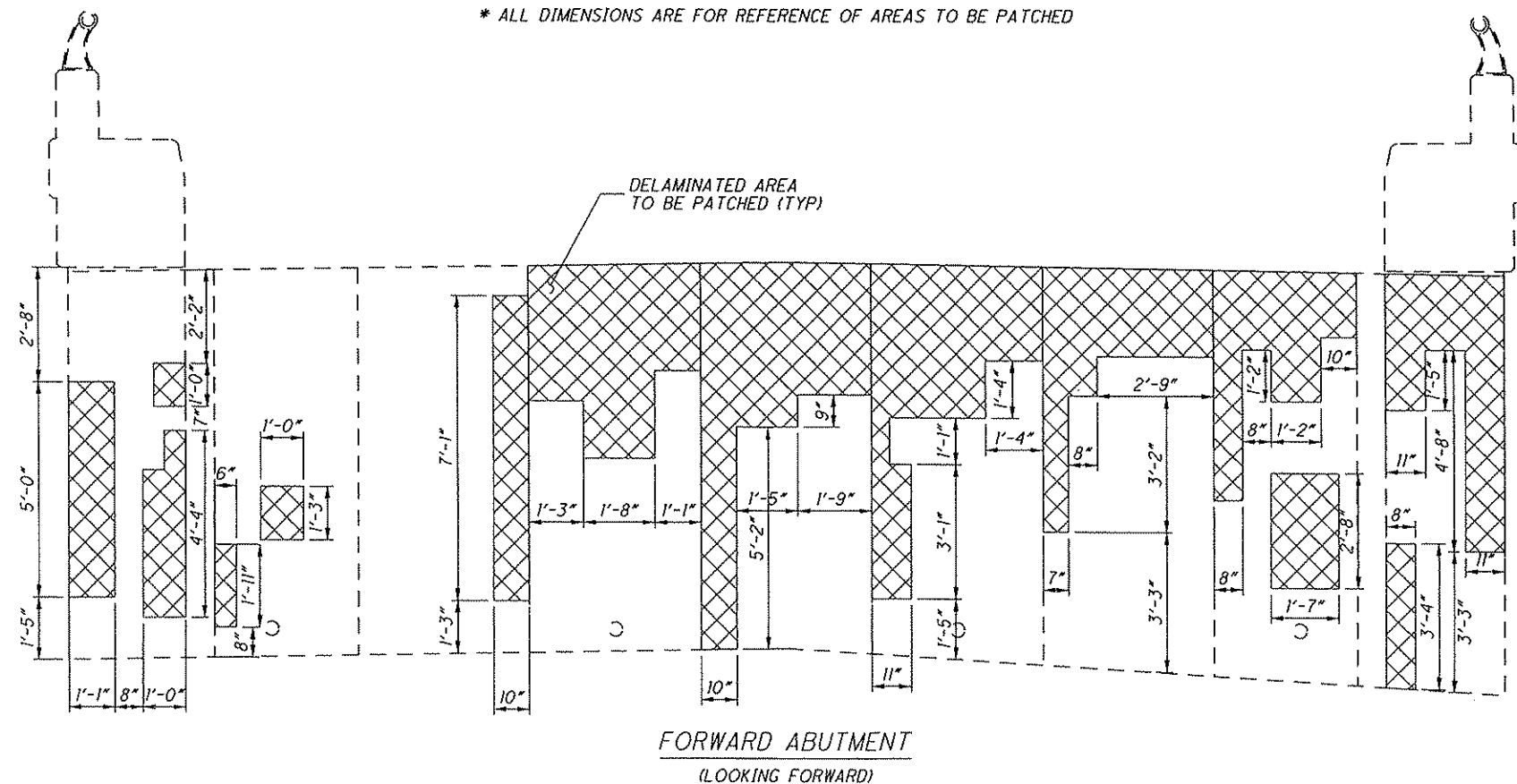
**GENERAL NOTES**  
MAR-4D-0070  
PROSPECT STREET OVER CSX RAIL

MAR-4D-0.70  
MAR-95-14.36  
PID No. 79938

S4  
S21



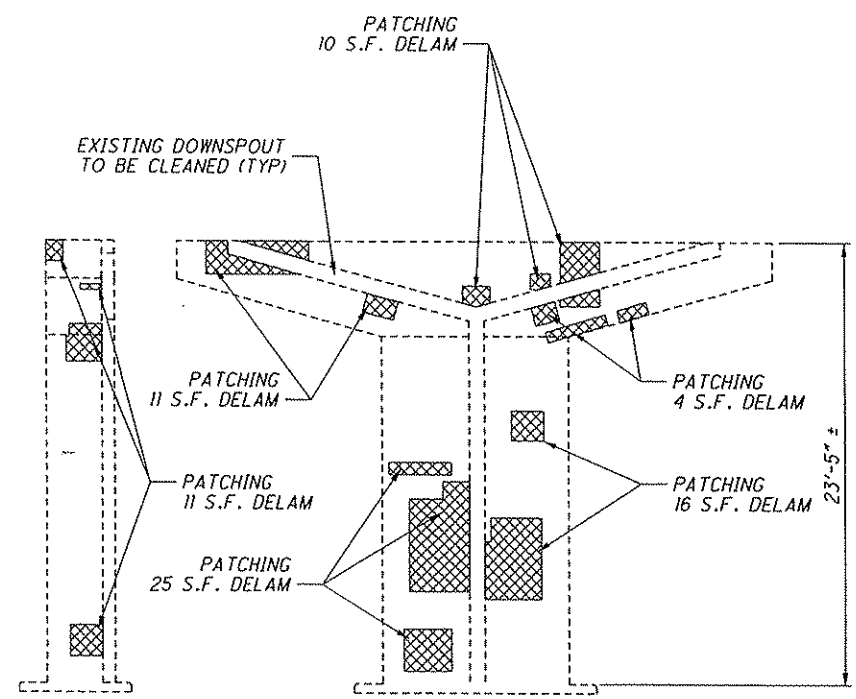
\* ALL DIMENSIONS ARE FOR REFERENCE OF AREAS TO BE PATCHED



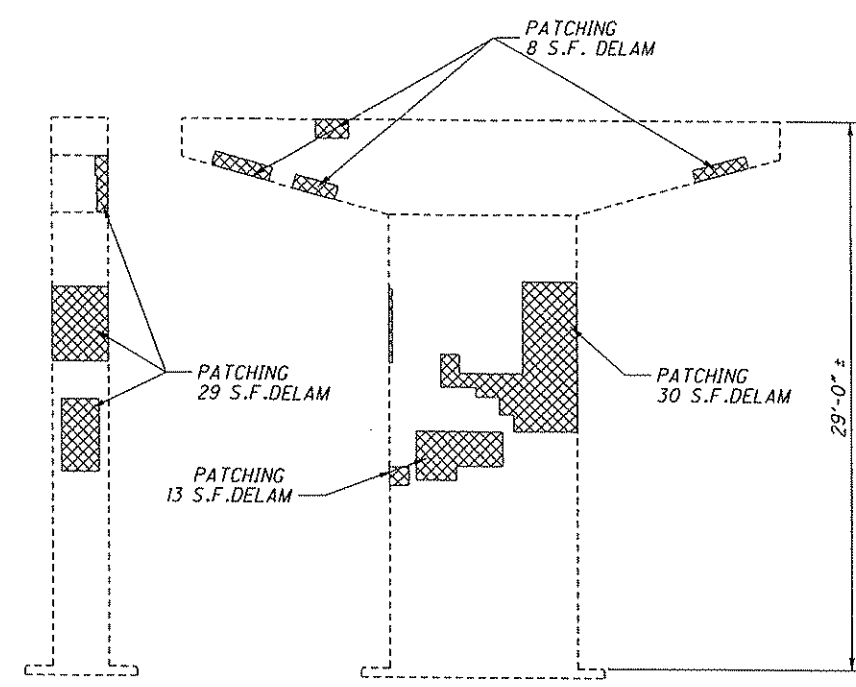
\* ALL DIMENSIONS ARE FOR REFERENCE OF AREAS TO BE PATCHED

ITEM 519 PATCHING - SUMMARY TABLE			
LOCATION	MEASURED QTY (S.F.)	CONTINGENCY FACTOR	TOTAL (S.F.)
REAR ABUTMENT	128	1.25	160
FORWARD ABUTMENT	92	1.25	115
REAR ABUTMENT RETAINING WALLS	27	1.25	34
FORWARD ABUTMENT RETAINING WALLS	13	1.25	16

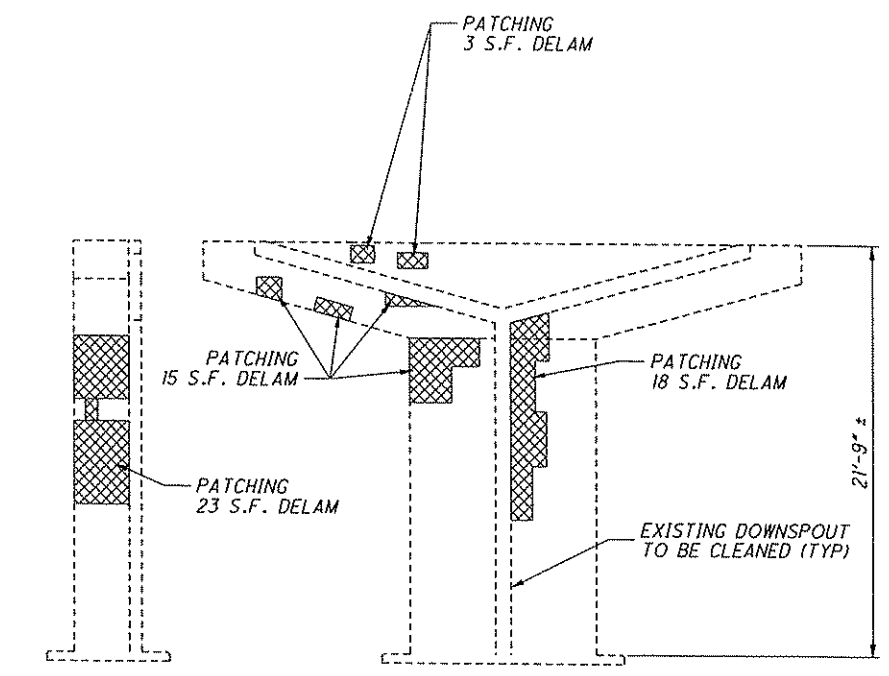
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 MODEL SHEET



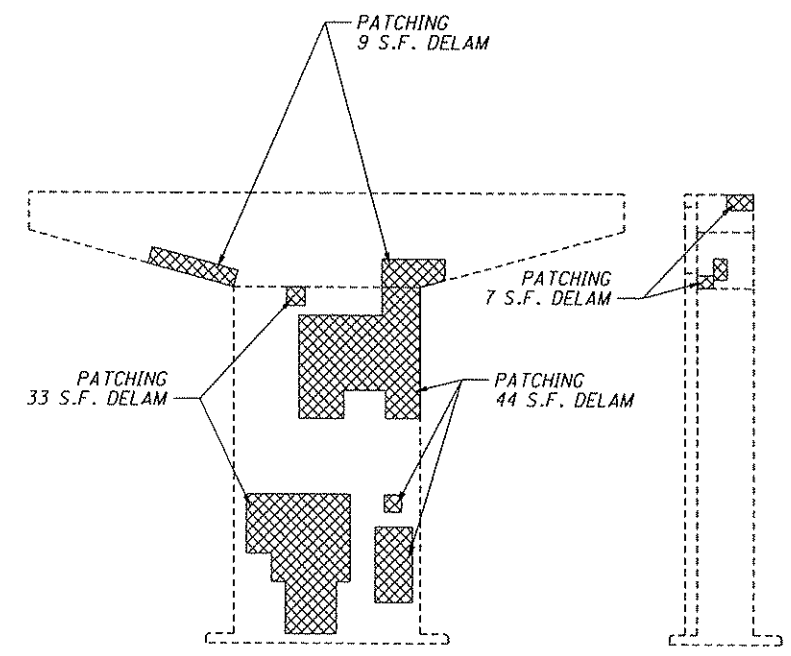
PIER 4 ELEVATION  
(LOOKING BACK)



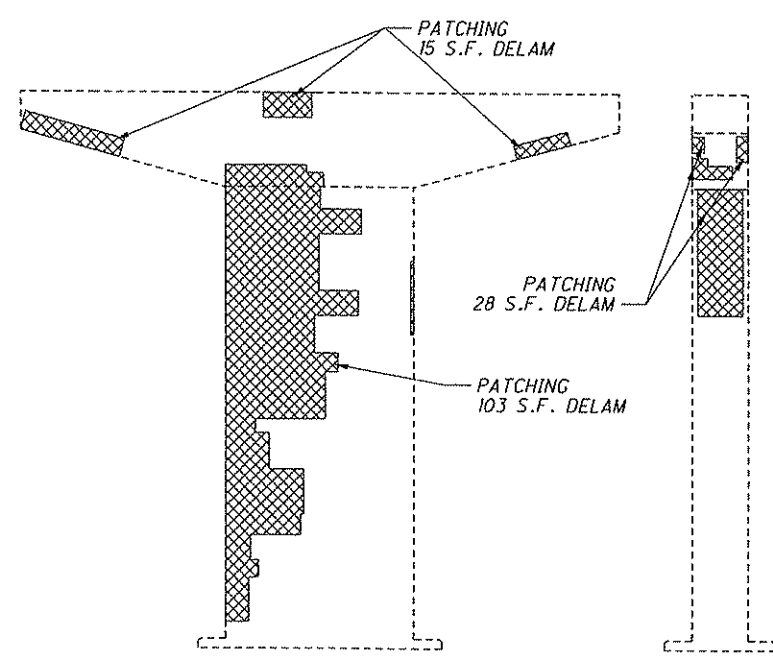
PIER 8 ELEVATION  
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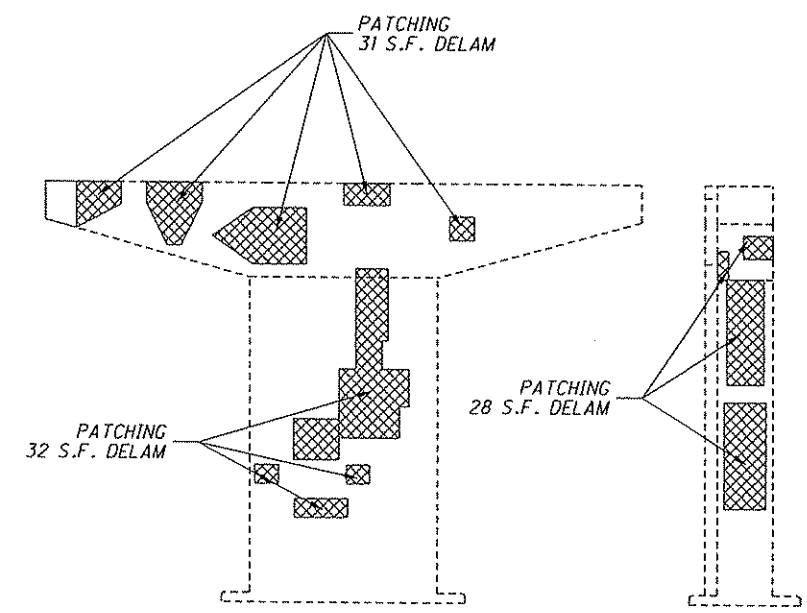
PIER 12 ELEVATION  
(LOOKING BACK)



PIER 4 ELEVATION  
(LOOKING FORWARD)



PIER 8 ELEVATION  
(LOOKING FORWARD)



PIER 12 ELEVATION  
(LOOKING FORWARD)

ITEM 519 PATCHING - SUMMARY TABLE			
LOCATION	MEASURED QTY (S.F.)	CONTINGENCY FACTOR	TOTAL (S.F.)
PIER 4	168	1.25	210
PIER 8	224	1.25	280
PIER 12	150	1.25	188

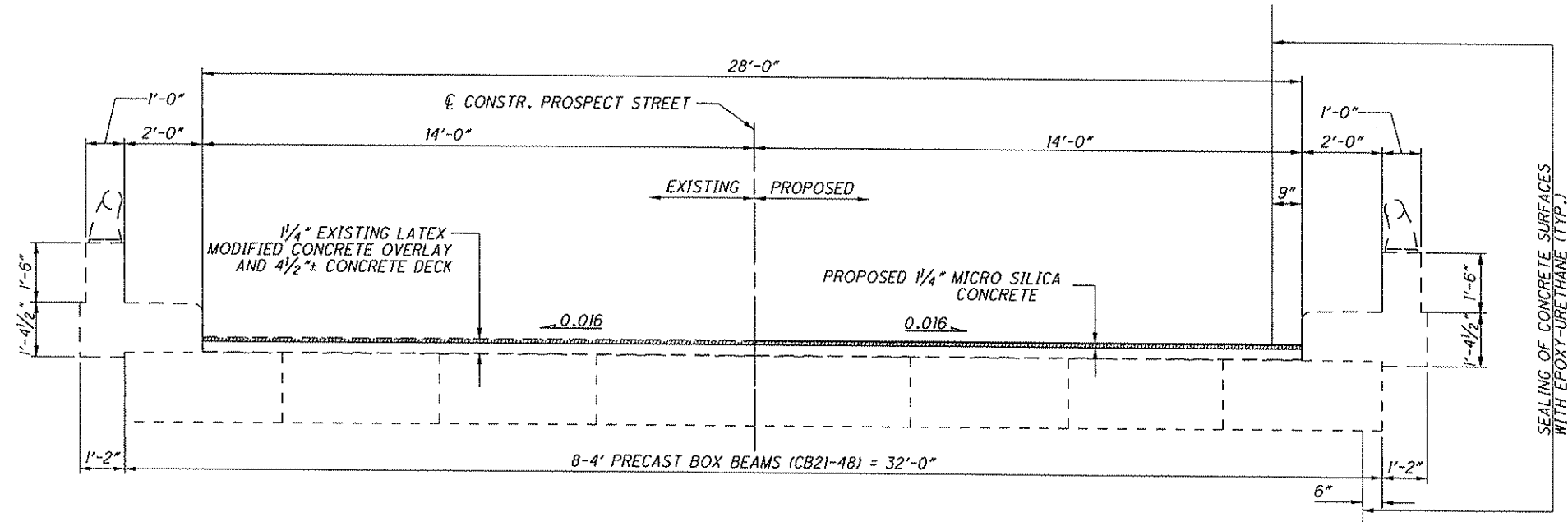
DESIGN AGENCY: PALMER ENGINEERING  
 1000 CORNELL PARK DR  
 WESTFIELD, MA 01095  
 TEL: 413-253-1111  
 FAX: 413-253-1112  
 WWW.PALMERENGINEERING.COM

DESIGNED	WAH	CHECKED	BJF
DRAWN	KLF	REVISED	
REVIEWED	BJF	STRUCTURE FILE NUMBER	240
DATE	4/07		

PIER PATCHING DETAILS  
 MAR-4D-0700  
 PROSPECT STREET OVER CSX RAILROAD

MAR-4D-0.70  
 MAR-95-14.36  
 PID No. 79938

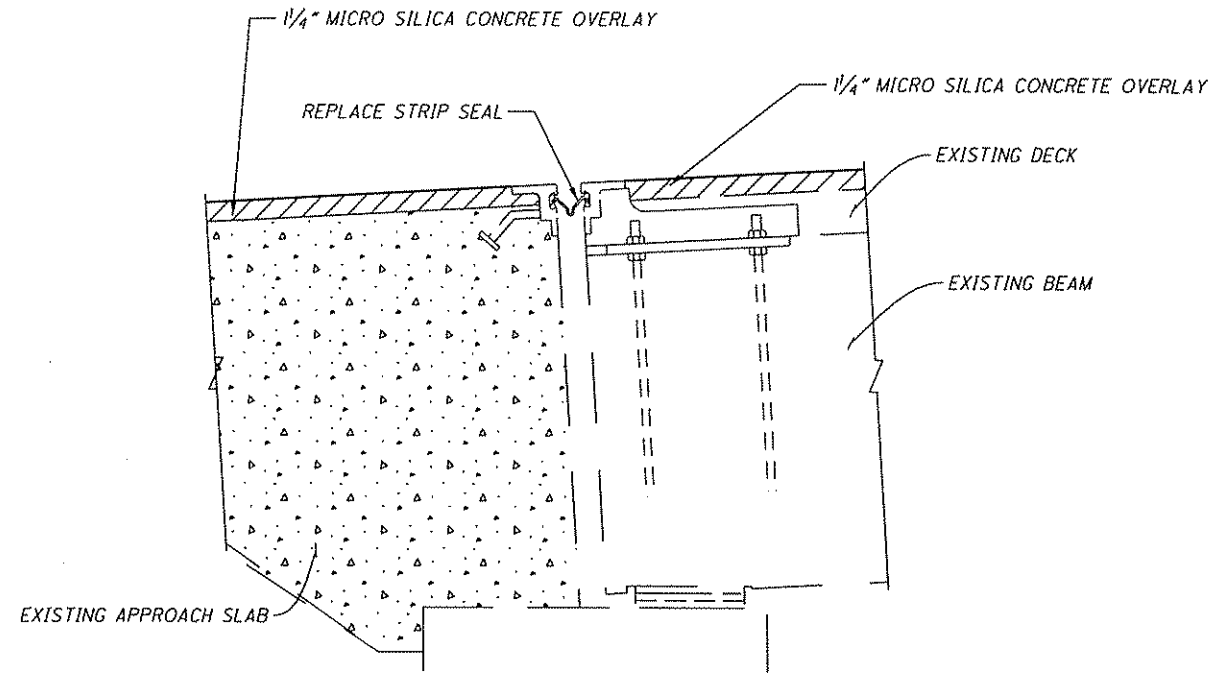
S6  
 S21



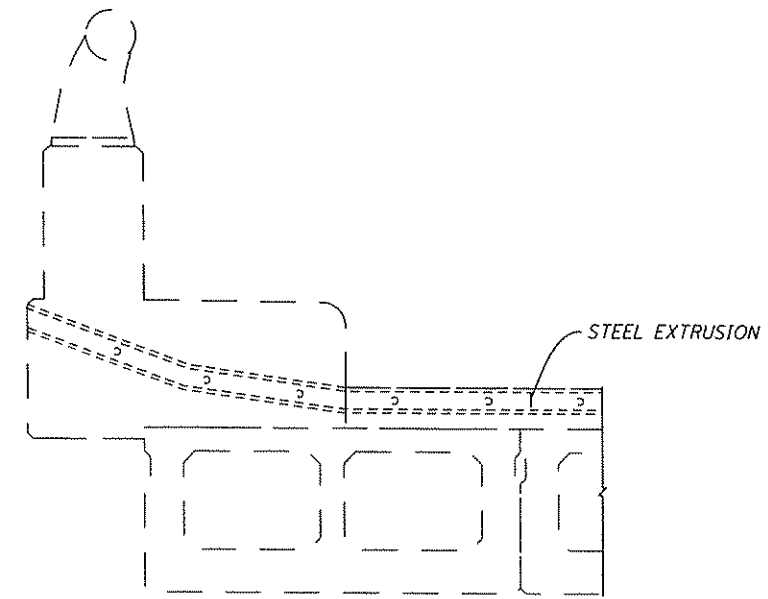
TRANSVERSE SECTION

REMOVE EXISTING LMCO USING HYDRODEMOLITION AND REPLACE WITH MSCO

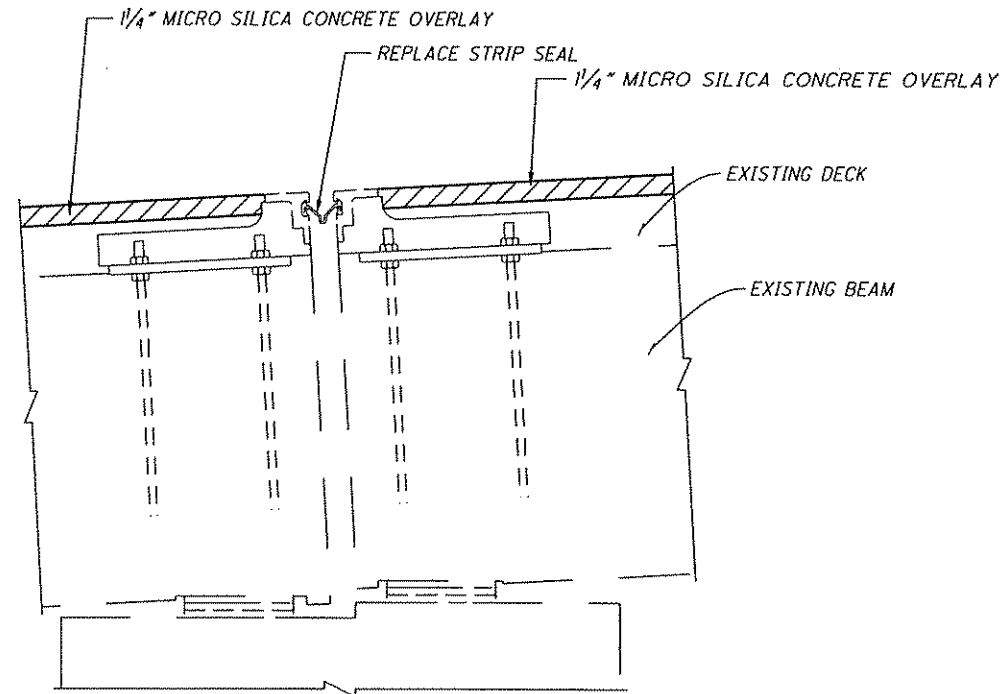
NOTE:  
DECK HEATING WIRES ARE PRESENT IN 4 1/2" CONCRETE DECK FROM STA. 584+25.60 TO STA. 588+47.27 BUT ARE NO LONGER FUNCTIONING.



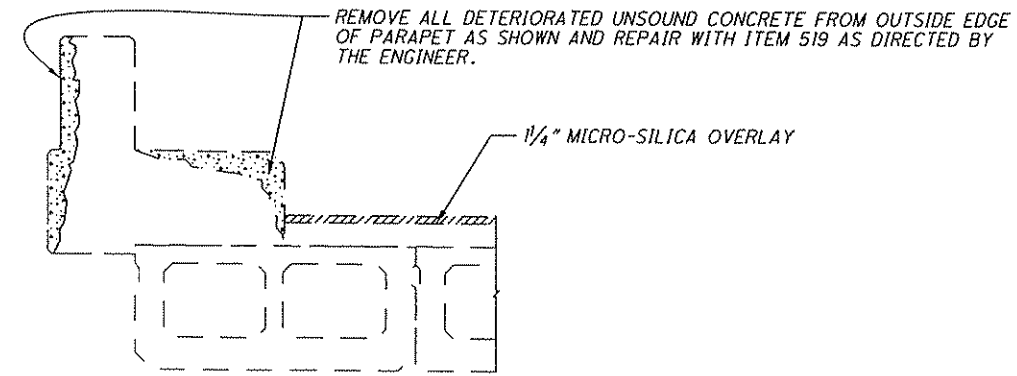
ABUTMENT EXPANSION JOINT DETAILS



TYPICAL TRANSVERSE SECTION AT EXPANSION JOINT



INTERMEDIATE EXPANSION JOINT DETAILS  
(PIER 4, PIER 8 AND PIER 12)



TYPICAL OVERLAY SECTION

NOTE:  
REFER TO STANDARD DRAWING  
EXJ-5-93 FOR STRIP SEAL DETAILS

04/17/2007 10:19:44 AM BY:SCOTT-M  
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MODEL SHEET

Palmer Engineering  
1100 CORNELL PARK DR  
CINCINNATI, OH 45242  
PH: 513-752-1100 FAX: 513-752-1101  
WWW.PALMER-ENGINEERING.COM

DESIGN AGENCY  
Palmer Engineering  
1100 CORNELL PARK DR  
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PH: 513-752-1100 FAX: 513-752-1101  
WWW.PALMER-ENGINEERING.COM

DATE  
4/07  
REVIEWED  
BJF  
STRUCTURE FILE NUMBER  
9240

DRAWN  
SDW  
DESIGNED  
WAH  
CHECKED  
BJF

EXPANSION JOINT DETAILS  
MAR-4D-0070  
PROSPECT STREET OVER CSX RAILROAD

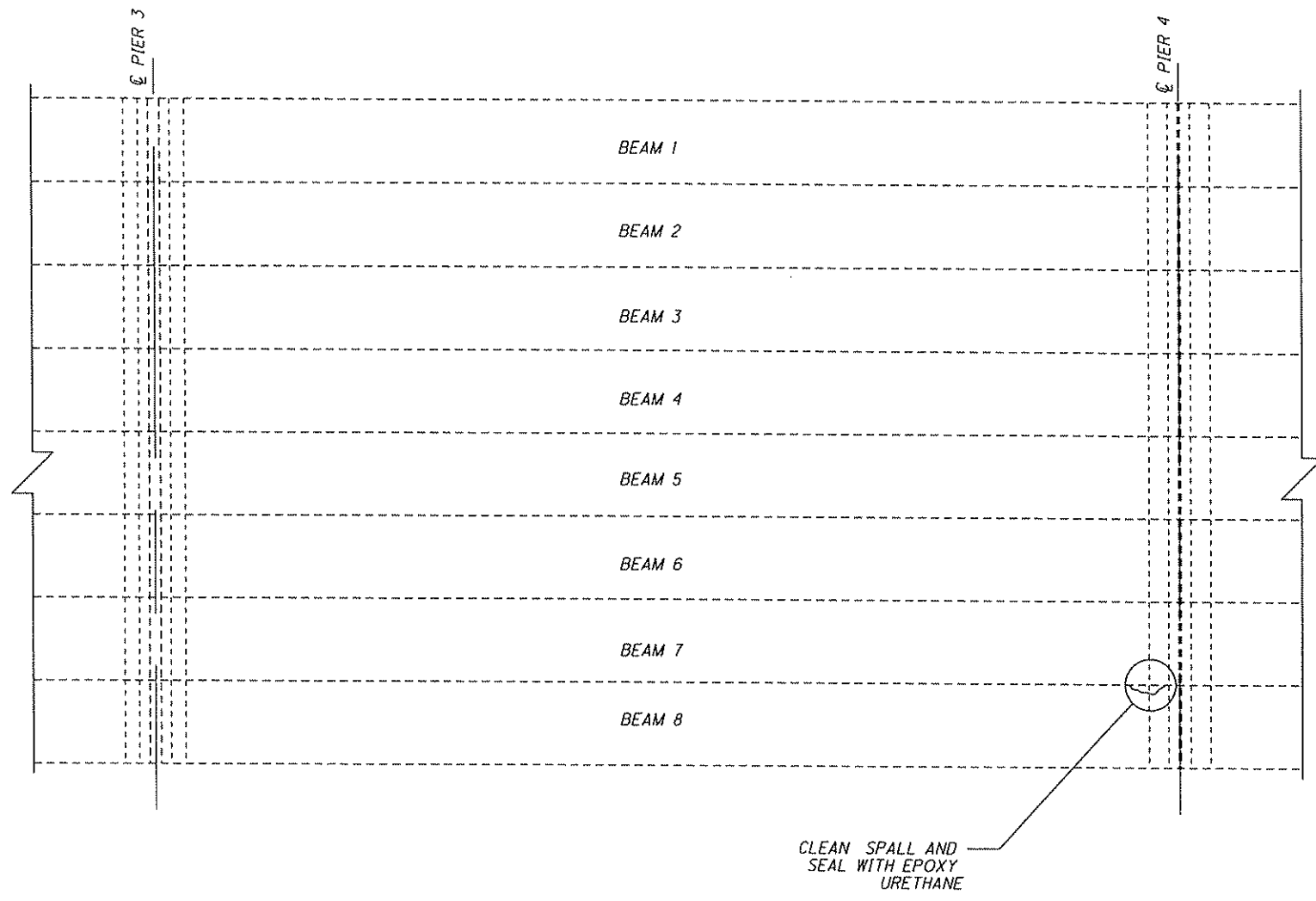
MAR-4D-0.70  
MAR-95-14.36  
PID No. 79938

S8  
S21



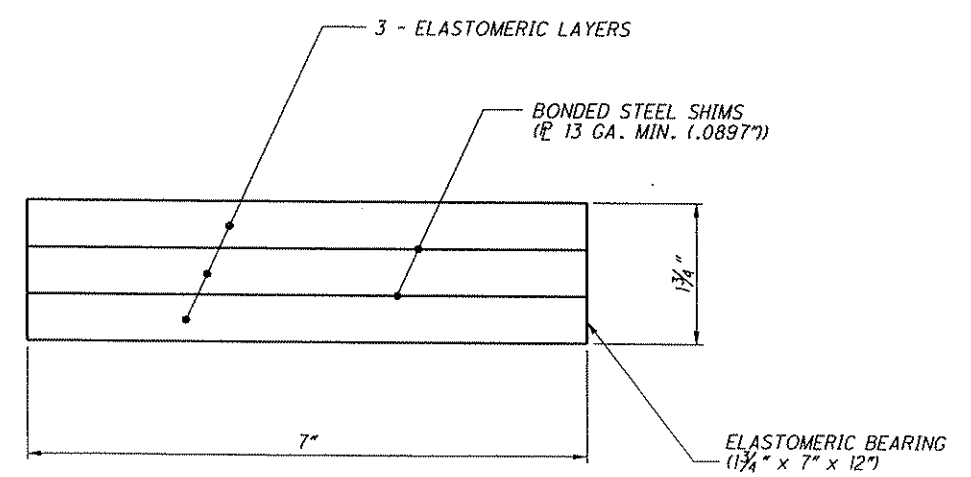
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 MODEL SHEET

Palmer Engineering  
 1000 CORNELL PARK DR  
 CINCINNATI, OH 45242  
 (513) 752-1111 FAX (513) 752-1112



BEAM REPAIR DETAIL

**NOTE:**  
 REMOVE ANY LOOSE CONCRETE ON UNDERSIDE OF BEAM 8, AS DIRECTED BY ENGINEER, USING HAND TOOLS AND SEAL WITH EPOXY-URETHANE.  
 PAYMENT SHALL BE WITH ITEM 530 SPECIAL-STRUCTURE MISC: BEAM REPAIR



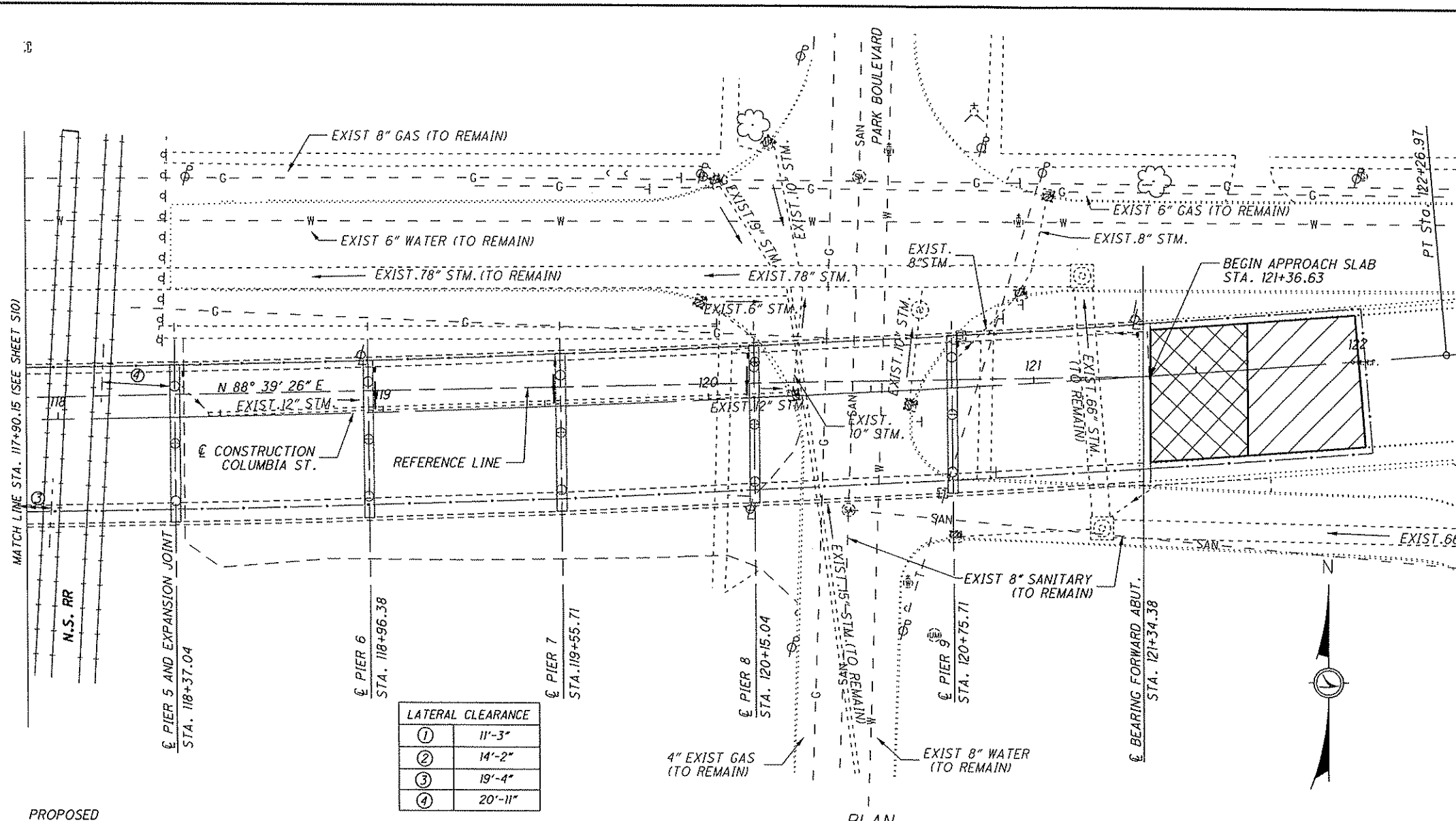
BEARING PAD DETAIL

**NOTES:**  
 ELASTOMERIC BEARING PADS SHALL COMPLY WITH ITEM 516 AND AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 18, BEARING DEVICES, DIVISION II, CONSTRUCTION, ARTICLES 18.4.5.1 AND 18.5.6.2. BEARINGS SHALL BE GRADE 3, 50 DUROMETER ELASTOMER, AND SHALL BE SUBJECTED TO THE LOAD TESTING REQUIREMENTS DEFINED IN ARTICLE 18.7.4.5. OF THE AASHTO DOCUMENT LISTED ABOVE. BEARINGS WERE DESIGNED UNDER SECTION 14.6.6 OF SECTION 14, BEARINGS, DIVISION I DESIGN. TESTING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARINGS, EACH.  
 BASIS OF PAYMENT: THE UNIT BID PRICE SHALL INCLUDE ALL MATERIALS, LABOR AND INCIDENTALS NECESSARY TO FURNISH AND INSTALL LAMINATED ELASTOMERIC BEARINGS. PAYMENT WILL BE AT THE CONTRACT PRICE FOR ITEM 516, ELASTOMERIC BEARINGS.  
 THIS PAD SHALL BE INSTALLED AT THE REAR ABUTMENT AT BEAM 2.

PALMER ENGINEERING 1000 CORNELL PARK DR CINCINNATI, OH 45242 (513) 752-1111 FAX (513) 752-1112	DESIGN AGENCY PALMER ENGINEERING 1000 CORNELL PARK DR CINCINNATI, OH 45242 (513) 752-1111 FAX (513) 752-1112
	DATE 4/07 FILE NUMBER 00240
REVIEWED BLJ ST	REVIEWED ST
DRAWN SDW REVISED	DRAWN SDW REVISED
DESIGNED WAH CHECKED WAH	DESIGNED WAH CHECKED WAH
<b>SUPERSTRUCTURE DETAILS</b> MAR-4D-0070 PROSPECT STREET OVER CSX RAIL	
MAR-4D-0.70 MAR-95-14.36 PID No. 79938	S9 S21

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 MODEL SHEET

PALMER ENGINEERING  
 1300 CORNELL BLVD  
 CINCINNATI, OH 45242  
 TEL: 513-752-1100 FAX: 513-752-1101

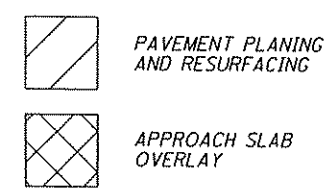


LATERAL CLEARANCE	
①	11'-3"
②	14'-2"
③	19'-4"
④	20'-11"

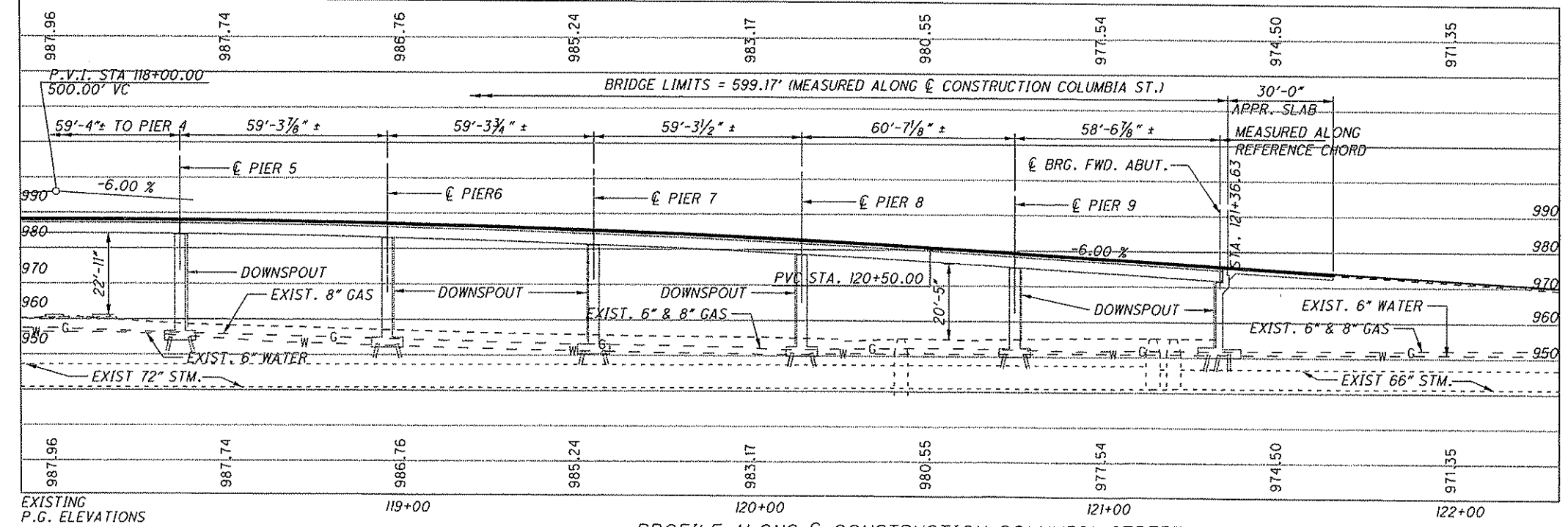
**PROPOSED WORK**

1. REMOVE EXISTING LATEX MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION AND REPLACE WITH A 1/4" MICRO-SILICA CONCRETE OVERLAY.
2. PATCH EXISTING CONCRETE SAFETY CURB, SIDEWALK AND PARAPETS WITH ITEM 519 PATCHING CONCRETE STRUCTURES.
3. SEAL SAFETY CURB, SIDEWALK, AND PARAPETS AS SHOWN IN THE PLANS WITH EPOXY-URETHANE SEALER. COLOR SHALL BE FEDERAL COLOR NO. 595B-17778 (LIGHT NEUTRAL)
4. CLEAN EXISTING EXPANSION JOINTS AT BOTH ABUTMENTS.
5. REPLACE THE EXISTING STRIP SEAL GLAND AT PIER 5.
6. REPLACE DAMAGED OR MISSING DOWNSPOUTS AND DRAIN PIPES. ADD CLEANOUT PORTS TO THE DOWNSPOUTS THAT ARE TO REMAIN. CLEAN DEBRIS FROM EXISTING SCUPPERS AND DOWNSPOUTS THAT ARE TO REMAIN. PAINT STEEL DOWNSPOUTS TO PREVENT FURTHER DETERIORATION.
7. REMOVE ASPHALT FROM EXISTING APPROACH SLABS AND OVERLAY WITH MICRO-SILICA. (SEE ROADWAY PLANS)
8. REPAIR DETERIORATED SUBSTRUCTURE CONCRETE BY PATCHING WITH ITEM 519 PATCHING CONCRETE STRUCTURES
9. REPAIR CRACK IN BEAM 8 USING EPOXY INJECTION AS SHOWN IN THE PLANS
10. INSTALL BRIDGE MARKER SIGNS. (SEE ROADWAY PLANS)
11. CLEAN DEBRIS AT BEAM SEATS.
12. MILL AND OVERLAY APPROACH PAVEMENT WITH ASPHALT.

**LEGEND**



**PROPOSED P.G. ELEVATIONS**



PROFILE ALONG C CONSTRUCTION COLUMBIA STREET

DESIGN AGENCY: PALMER ENGINEERING  
 1300 CORNELL PARK DR  
 CINCINNATI, OH 45242  
 TEL: 513-752-1100 FAX: 513-752-1101

DATE: 4/07  
 FILE NUMBER: 5102561

DESIGNED: WAH  
 CHECKED: B.J.F.

DRAWN: V.W.K.  
 REVISED:

MARION COUNTY  
 STA. 115+37.16  
 STA. 121+36.63

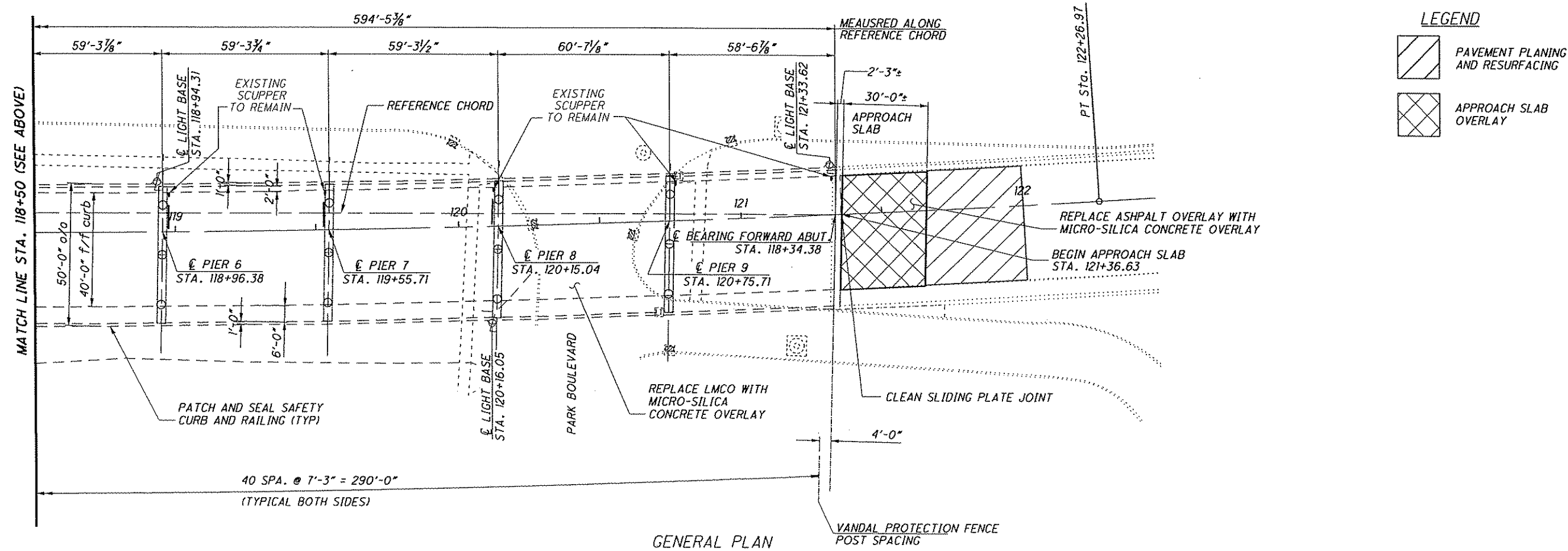
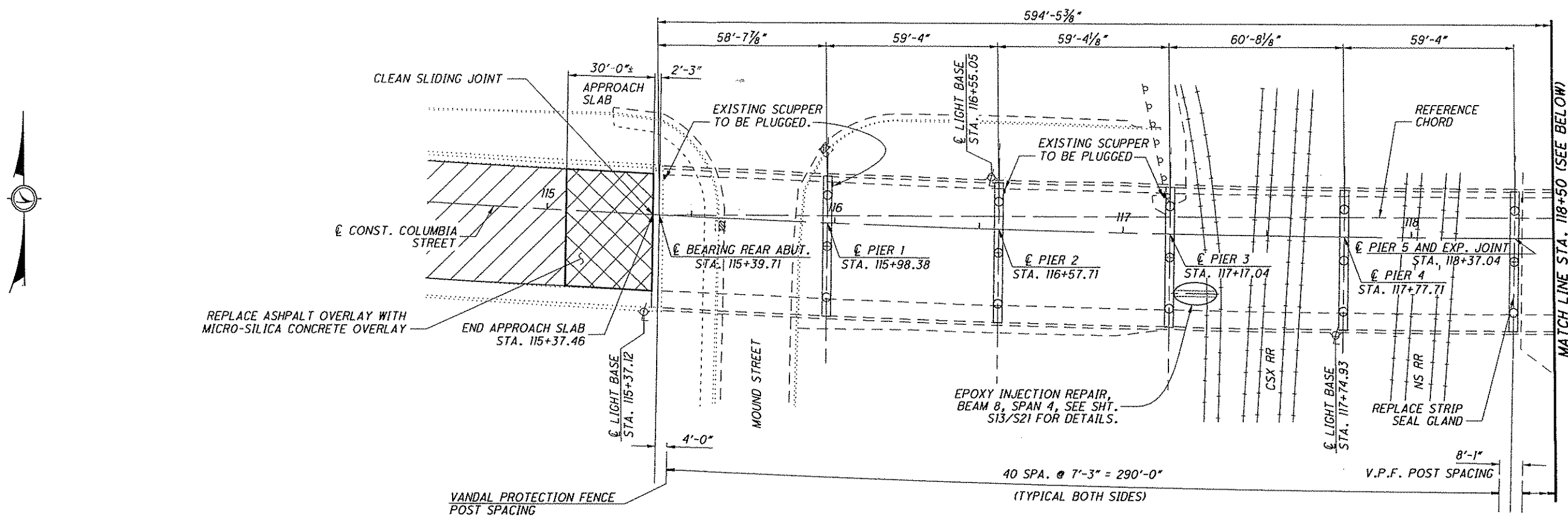
**SITE PLAN**  
 MAR-95-1436  
 COLUMBIA STREET OVER CSX AND NS RAILROADS

MAR-4D-070  
 MAR-95-14-36  
 PID No. 79938

S11  
 S21

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 MODEL SHEET

Palmer Engineering  
 1300 CORNELL PARK DR  
 CINCINNATI, OH 45242  
 (513) 751-1111



DESIGNED WAH	CHECKED BJF	DRAWN DF	REVIEWED BJF	DATE 4/07	FILE NUMBER 5102561

DESIGN AGENCY  
 Palmer Engineering  
 1300 CORNELL PARK DR  
 CINCINNATI, OH 45242  
 (513) 751-1111

GENERAL PLAN  
 MAR-95-1436  
 COLUMBIA STREET OVER CSX AND NS RAILROADS

MAR-4D-0.70  
 MAR-95-14.36  
 PID No. 79938

S12  
 S21

**REFERENCE SHALL BE MADE TO STANDARD DRAWING(S)**

VPF-1-90 DATED (REVISED) 07-19-02

**AND TO SUPPLEMENTAL SPECIFICATION(S):**

843 DATED (REVISED) 04-18-03

848 DATED (REVISED) 04-15-05

**DECK PROTECTION METHOD**

MICRO-SILICA CONCRETE OVERLAY  
SEALING OF CONCRETE SURFACES WITH EPOXY-URETHANE

**EXISTING STRUCTURE VERIFICATION**

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05 AND 105.02.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

**ITEM 516 - ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS, AS PER PLAN**

STRIP SEALS SHALL BE WABO SE-800 OR D.S. BROWN L2-400. THIS STRIP SEAL GLAND MUST BE CONTINUOUS AND INSTALLED IN ONE PIECE.

**ITEM 518 - STRUCTURE DRAINAGE, MISC: CLEANING SCUPPERS AND DOWNSPOUTS**

THIS SHALL APPLY TO CLEANING THE DRAINAGE SCUPPERS AND DOWNSPOUTS AT PIERS 5 THRU 9 AND THE FORWARD ABUTMENT. THE CONTRACTOR MAY CLEAN THE DOWNSPOUTS USING HIGH PRESSURE WATER, OR OTHER METHOD APPROVED BY THE ENGINEER, THAT DOES NOT DAMAGE THE SCUPPERS OR DOWNSPOUTS. AFTER CLEANING, THE SCUPPERS AND DOWNSPOUTS MUST DRAIN FREELY AND TO THE APPROVAL OF THE ENGINEER. PAYMENT FOR THIS WORK, INCLUDING ALL LABOR, MATERIALS AND EQUIPMENT WILL BE MADE IN THE CONTRACT PRICE BID FOR ITEM 518, STRUCTURE DRAINAGE, MISC. ESTIMATED QUANTITIES OF SCUPPERS AND DOWNSPOUTS TO BE CLEANED ARE:

LINEAL FT OF DOWNSPOUTS = 58  
NUMBER OF SCUPPERS = 6

**ITEM 518 - DOWNSPOUT MODIFICATION 6"**

THIS ITEM SHALL INCLUDE THE ADDITION OF UPWARD CLEANOUT FITTINGS TO THE EXISTING DOWNSPOUTS AT PIER 5, PIER 9 AND THE FORWARD ABUTMENT. PAYMENT FOR THIS WORK, INCLUDING ALL LABOR, MATERIALS AND EQUIPMENT SHALL BE MADE IN THE CONTRACT BID PRICE FOR ITEM 518, DOWNSPOUT MODIFICATION 6".

**ITEM 518 - 6" PIPE DOWNSPOUT, INCLUDING SPECIALS, AS PER PLAN.**

THIS ITEM SHALL INCLUDE THE REMOVAL OF THE EXISTING DOWNSPOUTS AT THE REAR ABUTMENT AND PIERS 1 THRU 3. PAYMENT FOR THIS WORK, INCLUDING ALL LABOR, MATERIALS AND EQUIPMENT SHALL BE MADE IN THE CONTRACT BID PRICE FOR ITEM 518, 6" PIPE DOWNSPOUTS, INCLUDING SPECIALS, AS PER PLAN.

**ITEM 519 - PATCHING CONCRETE STRUCTURES AS PER PLAN**

PRIOR TO THE SURFACE CLEANING SPECIFIED IN 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

**ITEM 530 - SPECIAL-STRUCTURE MISC.: CLEANING DEBRIS**

THIS ITEM SHALL INCLUDE THE REMOVAL OF ALL DEBRIS FROM THE EXISTING SLIDING PLATE JOINTS AT EACH ABUTMENT. IT SHALL ALSO INCLUDE THE REMOVAL OF ALL DEBRIS ON THE ABUTMENT BEAM SEATS. PAYMENT FOR THIS WORK INCLUDING ALL LABOR, MATERIALS AND EQUIPMENT WILL BE MADE IN THE CONTRACT PRICE BID FOR ITEM 530, SPECIAL -STRUCTURE MISC.: CLEANING DEBRIS.

**ITEM 848 - MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN**

THIS ITEM SHALL INCLUDE THE PLUGGING OF EXISTING SCUPPERS ON THE BRIDGE DECK WITH OVERLAY MATERIAL AT THE REAR ABUTMENT AND PIERS 1 THRU 3. CONCRETE USED TO PLUG THE SCUPPERS SHALL BE FINISHED AT THE SURFACE TO MATCH FINISH, LONGITUDINAL GRADE AND CROSS SLOPE OF THE PROPOSED CONCRETE OVERLAY. PAYMENT FOR THE ABOVE DESCRIBED WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 848, MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN.

**RAILROAD**

DECK HYDRO-DEMOLITION ON SPAN 4 WILL REQUIRE FULL TIME RAILROAD FLAGGING.

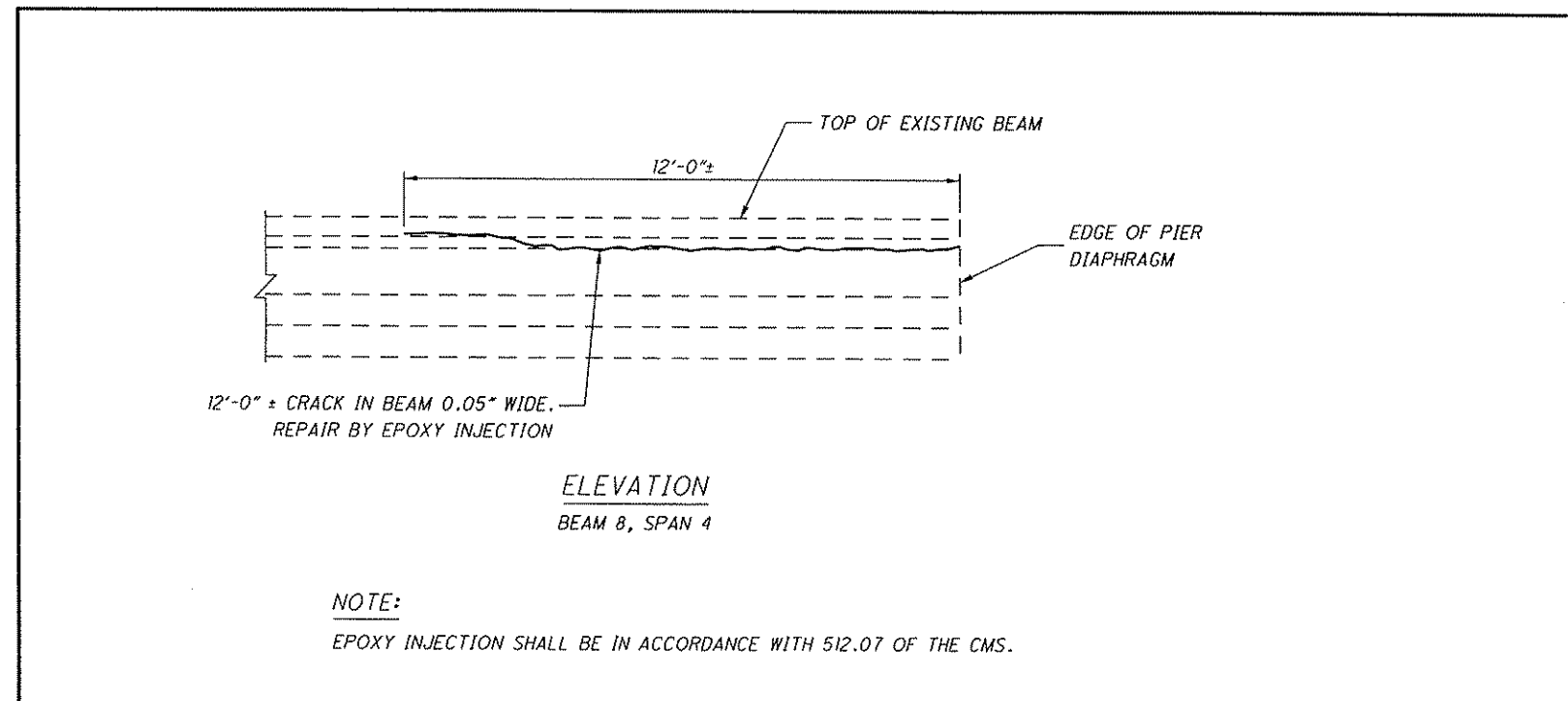
SEALING OF CONCRETE PARAPETS ON SPAN 4 WILL REQUIRE FULL TIME RAILROAD FLAGGING.

**ENVIRONMENTAL CONSIDERATIONS**

NO TOXIC OR HAZARDOUS MATERIALS SUCH AS SEALANT, 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 WITH IN 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.

UNAVOIDABLE CUTTING OF ANY TREES WHICH MAY PROVIDE SUITABLE ROOSTING OR BROOD-REARING HABITAT FOR THE SPECIES (i.e. LIVING OR STANDING DEAD TREES OR SNAGS WITH EXFOLIATING, PEELING OR LOOSE BARK, SPLIT TRUNKS AND/OR BRANCHES, OR CAVITIES) WILL BE PERFORMED ONLY BEFORE APRIL 15 OR AFTER SEPTEMBER 15 WHEN THE SPECIES WOULD NOT BE USING SUCH HABITAT.

**HOURS OF CONSTRUCTION EQUIPMENT OPERATION WILL BE FROM 8am TO 6pm.**



**NOTE:**

EPOXY INJECTION SHALL BE IN ACCORDANCE WITH 512.07 OF THE CMS.

04/18/2007 10:16:40 AM BY:SCOTT-W  
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Palmer Engineering  
1300 CORNELL PARK DR  
CINCINNATI, OH 45242  
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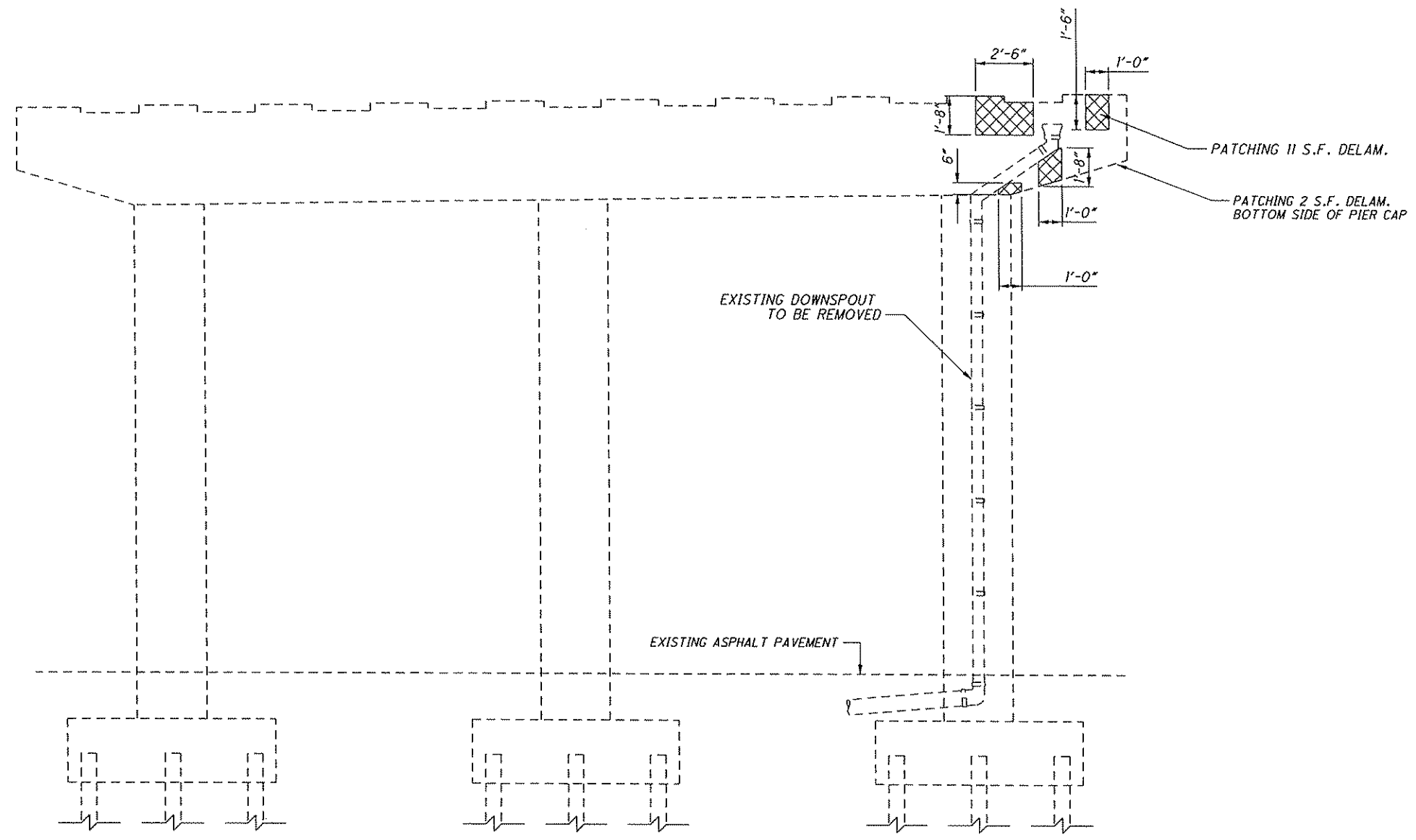
DESIGN AGENCY  
PALMER ENGINEERING  
1300 CORNELL PARK DR  
CINCINNATI, OH 45242

DATE 4/07  
REVISED B  
DRAWN KJD  
DESIGNED WAH  
CHECKED B J F

STRUCTURE GENERAL NOTES  
MAR-95-1436  
COLUMBIA STREET OVER CSX AND NS RAILROADS

MAR-4D-0.70  
MAR-95-14.36  
PID No. 79938

S13  
S21



**PIER 1 ELEVATION VIEW**  
 (LOOKING BACK)

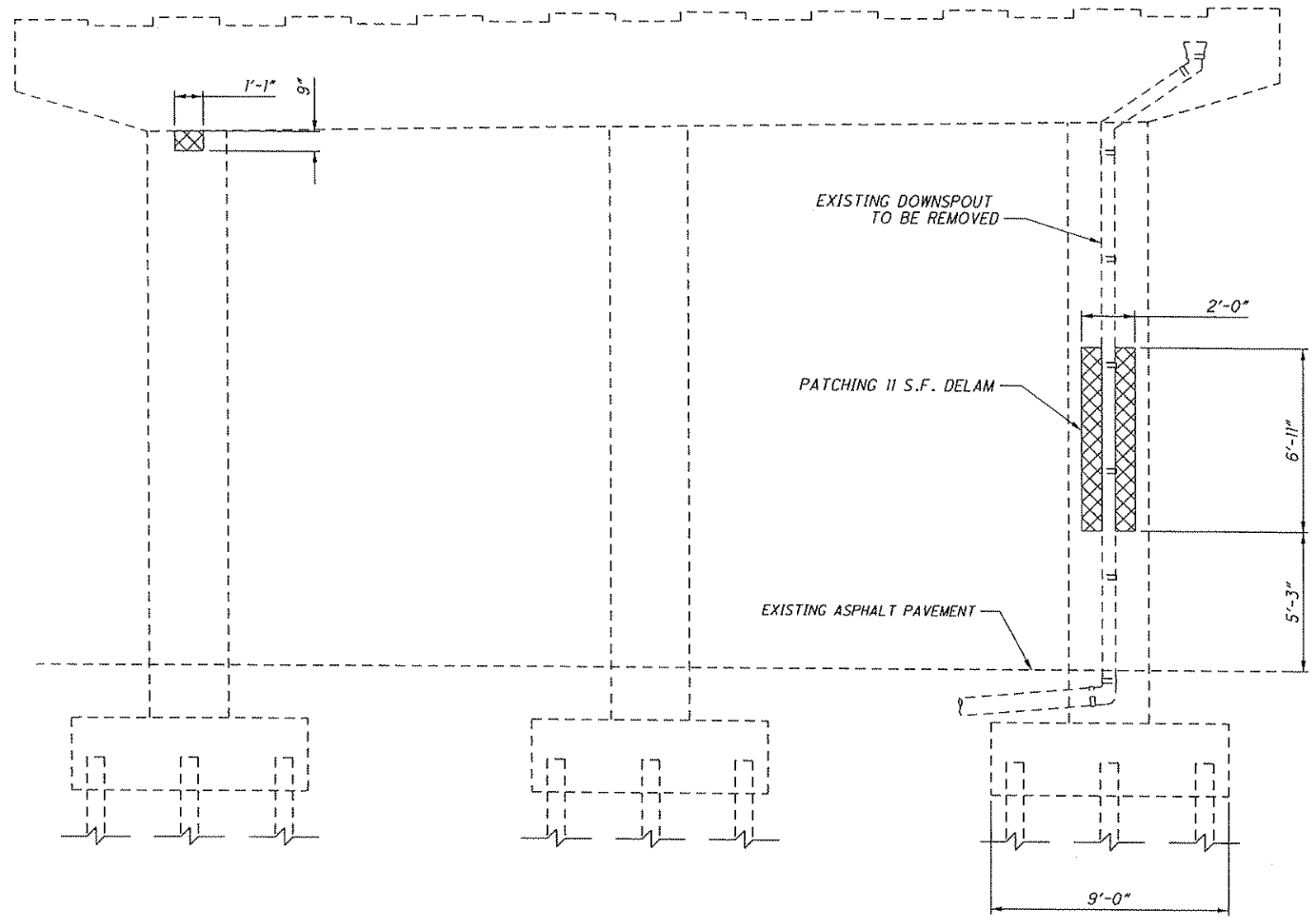
PIER CONCRETE ITEM 519 PATCHING - SUMMARY TABLE			
LOCATION	MEASURED QTY (S.F.)	CONTINGENCY FACTOR	TOTAL (S.F.)
P1	13	1.25	16

S14  
 S21

**MAR-4D-0.70**  
**MAR-95-14.36**  
 PID No. 79938

**PIER 1 DETAIL**  
 MAR-95-1436  
 COLUMBIA STREET OVER CSX AND NS RAILROADS

DESIGNED	WAH	CHECKED	BJF
DRAWN	KLF	REVISED	
REVIEWED	B.	STRUC. CASE FILE NUMBER	5102561
DATE	4/07		



PIER 2 ELEVATION VIEW  
 (LOOKING BACK)

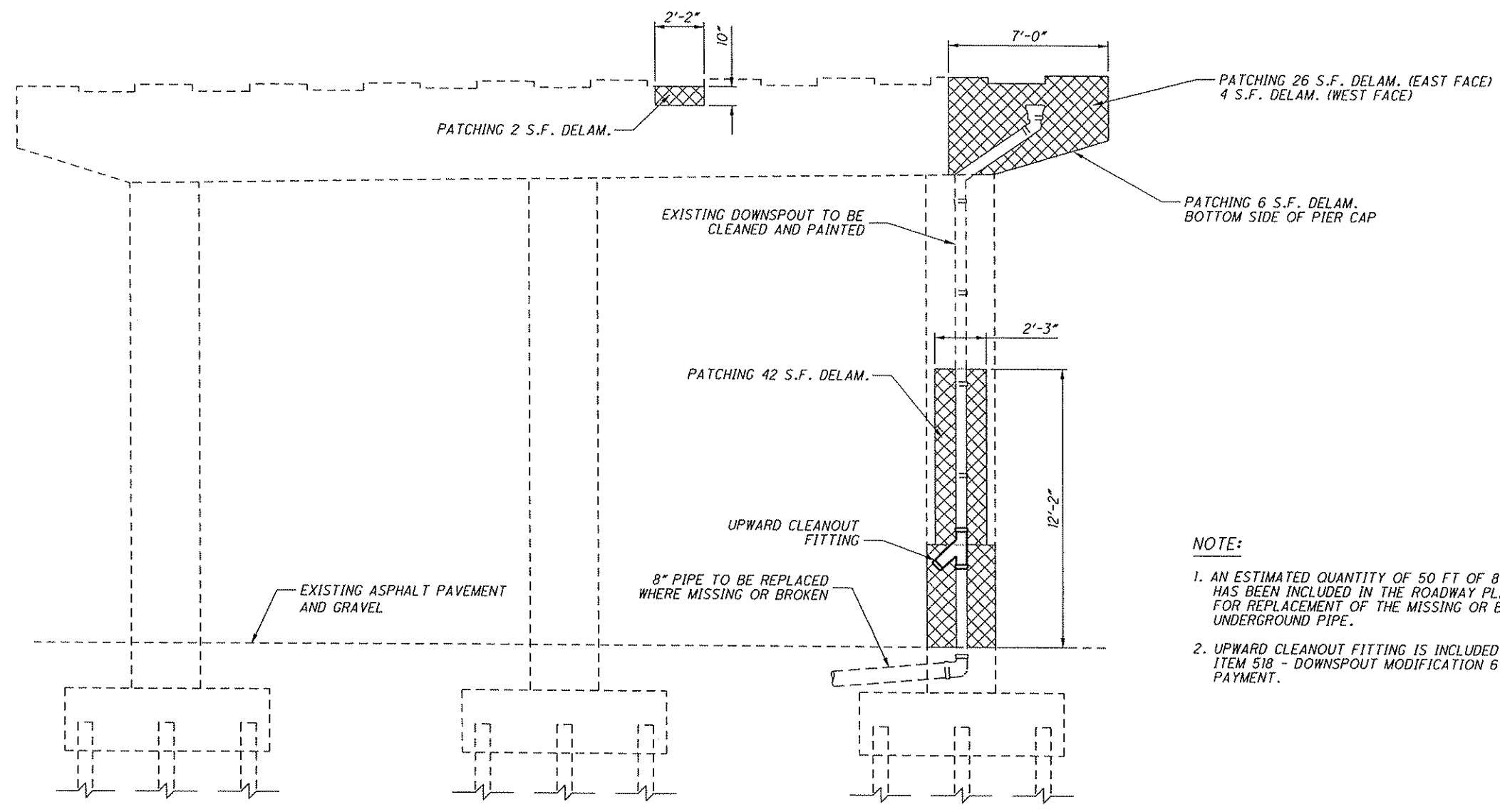
PIER CONCRETE ITEM 519 PATCHING - SUMMARY TABLE			
LOCATION	MEASURED QTY (S.F.)	CONTINGENCY FACTOR	TOTAL (S.F.)
P2	12	1.25	15

S15  
 S21

MAR-4D-0.70  
 MAR-95-14.36  
 PID No. 79938

PIER 2 DETAIL  
 MAR-95-1436  
 COLUMBIA STREET OVER CSX AND NS RAILROADS

DESIGNED	WAH	CHECKED	BJF
DRAWN	KLF	REVISED	
REVIEWED	P	DATE	4/07
STAMP	FILE NUMBER	5102561	



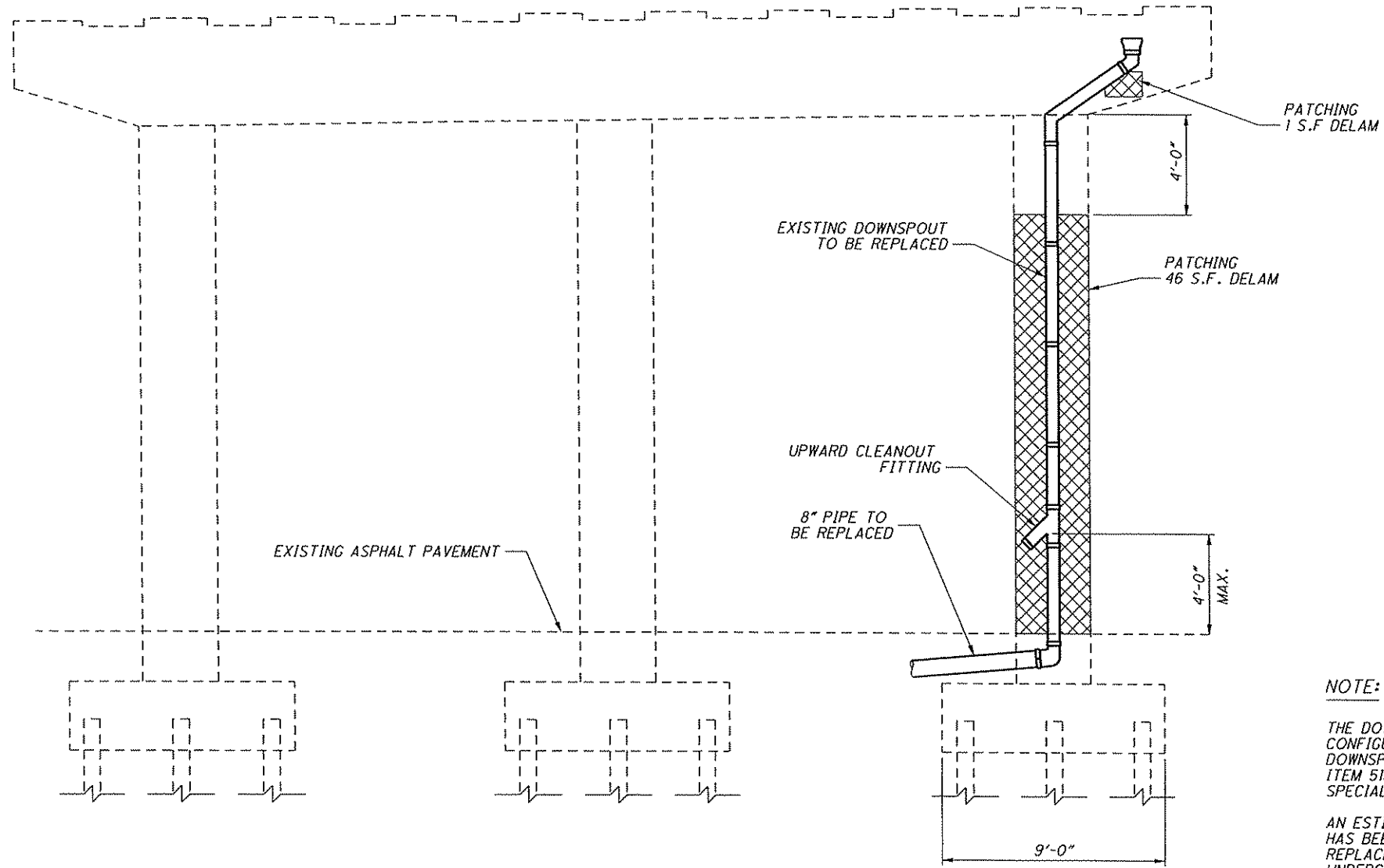
PIER 5 ELEVATION VIEW  
 (LOOKING BACK)

**NOTE:**

1. AN ESTIMATED QUANTITY OF 50 FT OF 8" PIPE HAS BEEN INCLUDED IN THE ROADWAY PLANS FOR REPLACEMENT OF THE MISSING OR BROKEN UNDERGROUND PIPE.
2. UPWARD CLEANOUT FITTING IS INCLUDED WITH ITEM 518 - DOWNSPOUT MODIFICATION 6" FOR PAYMENT.

PIER CONCRETE ITEM 519 PATCHING - SUMMARY TABLE			
LOCATION	MEASURED QTY (S.F.)	CONTINGENCY FACTOR	TOTAL (S.F.)
P5	80	1.25	48

 PALMER ENGINEERING 11300 CORNELL PARK DR CINCINNATI, OH 45242	DATE 4/07
	REVIEWER BF
DRAWN KLF	STRUCTURE FILE NUMBER 5102561
DESIGNED WAH	CHECKED BJF
<b>PIER 5 DETAIL</b> MAR-95-1436 COLUMBIA STREET OVER CSX AND NS RAILROADS	
MAR-4D-0.70 MAR-95-14.36 PID No. 79938	



PIER 6 ELEVATION VIEW  
 (LOOKING BACK)

**NOTE:**

THE DOWNSPOUTS SHALL BE REPLACED IN A CONFIGURATION SIMILAR TO THE EXISTING DOWNSPOUTS. THIS SHALL BE PAID FOR UNDER ITEM 519 - 6" PIPE DOWNSPOUT, INCLUDING SPECIALS, AS PER PLAN.

AN ESTIMATED QUANTITY OF 50 FT OF 8" PIPE HAS BEEN INCLUDED IN THE ROADWAY PLANS FOR REPLACEMENT OF THE MISSING OR BROKEN UNDERGROUND PIPE.

PIER CONCRETE ITEM 519 PATCHING - SUMMARY TABLE			
LOCATION	MEASURED QTY (S.F.)	CONTINGENCY FACTOR	TOTAL (S.F.)
P6	47	1.25	59

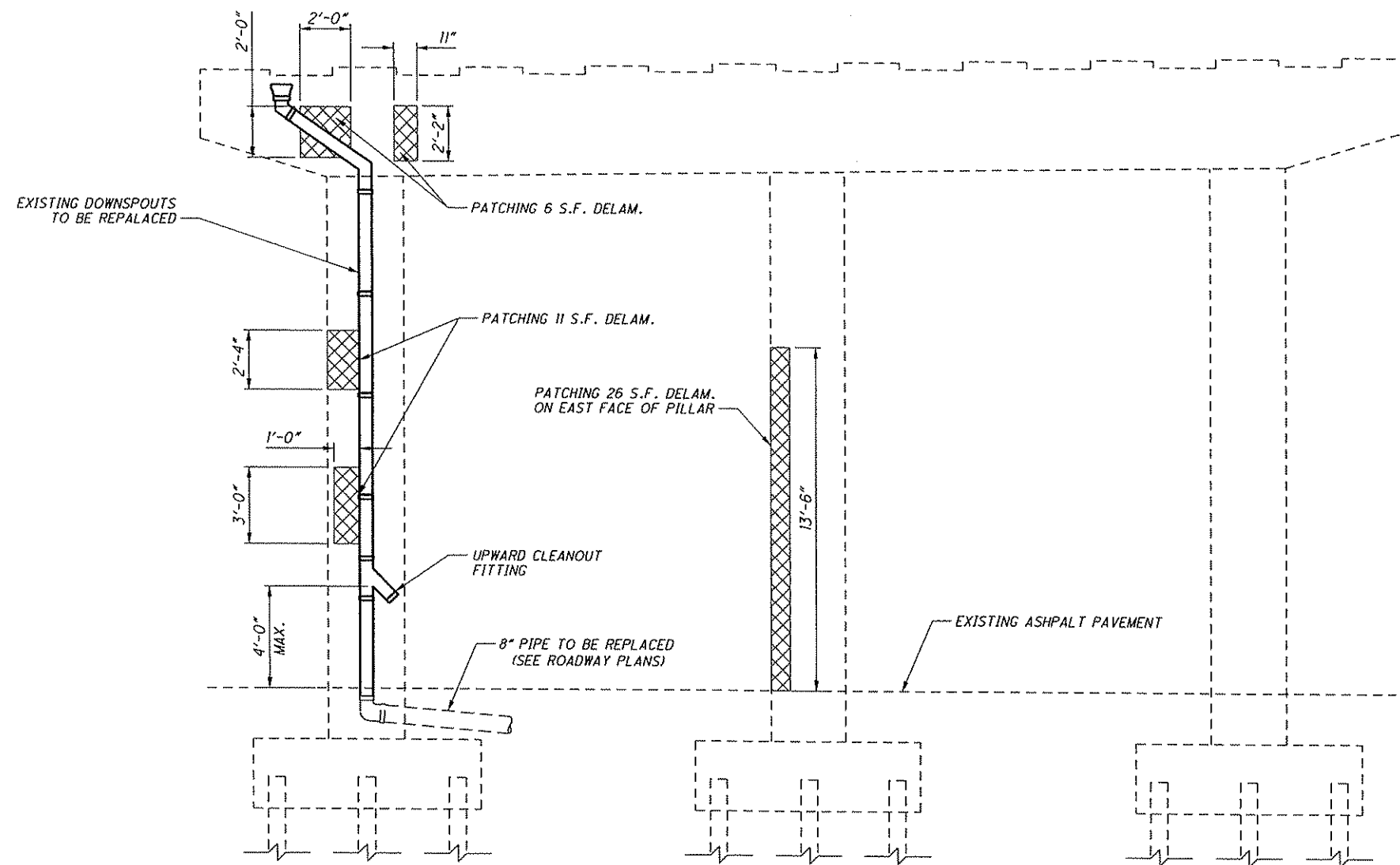
S17  
 S21

MAR-4D-0.70  
 MAR-95-14.36  
 PID No. 79938

PIER 6 DETAIL  
 MAR-95-1436  
 COLUMBIA STREET OVER CSX AND NS RAILROADS

DESIGNED	WAH	CHECKED	BJF
DRAWN	KLF	REVISED	
REVISED		STANDARD FILE NUMBER	5102561
DATE	4/07		





PIER 7 ELEVATION  
 (LOOKING AHEAD)

**NOTE:**

THE DOWNSPOUTS SHALL BE REPLACED IN A CONFIGURATION SIMILAR TO THE EXISTING DOWNSPOUTS. THIS SHALL BE PAID FOR UNDER ITEM 519 - 6" PIPE DOWNSPOUT, INCLUDING SPECIALS, AS PER PLAN.

AN ESTIMATED QUANTITY OF 50 FT OF 8" PIPE HAS BEEN INCLUDED IN THE ROADWAY PLANS FOR REPLACEMENT OF THE MISSING OR BROKEN UNDERGROUND PIPE.

PIER CONCRETE ITEM 519 PATCHING - SUMMARY TABLE			
LOCATION	MEASURED QTY (S.F.)	CONTINGENCY FACTOR	TOTAL (S.F.)
PIER 7	43	1.25	54

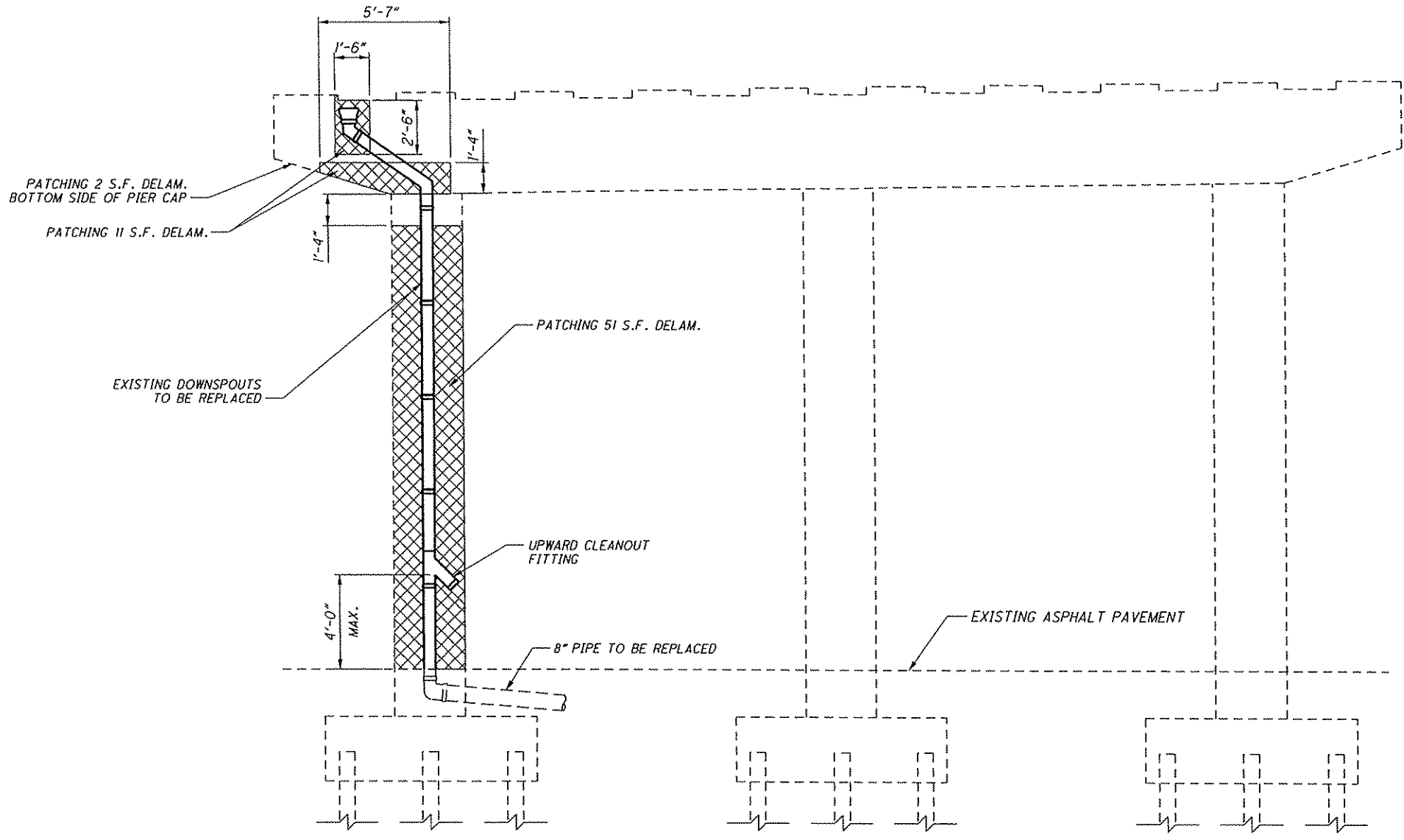
MAR-4D-0.70  
 MAR-95-14.36  
 PID No. 79938

PIER 7 DETAIL  
 MAR-95-1436  
 COLUMBIA STREET OVER CSX AND NS RAILROADS

DESIGNED: WAH  
 CHECKED: BJF  
 DRAWN: WAH  
 REVISED:  
 REVISION: E  
 STATION: 5102561  
 DATE: 4/07

04/18/2007 09:36:37 AM BY:SCOTT-W  
 O:\VODOT\MAR\79938\BRIDGE\MAR095\_1436C\SHEETS\095\_1436P1004.DGN  
 MODEL SHEET

**R Palmer Engineering**  
 ENGINEERING ARCHITECTURE  
 11000 WOODBURN AVENUE, SUITE 100  
 CINCINNATI, OH 45242



PIER 8 ELEVATION  
 (LOOKING AHEAD)

**NOTE:**  
 THE DOWNSPOUTS SHALL BE REPLACED IN A CONFIGURATION SIMILAR TO THE EXISTING DOWNSPOUTS. THIS SHALL BE PAID FOR UNDER ITEM 519 - 6" PIPE DOWNSPOUT, INCLUDING SPECIALS, AS PER PLAN.  
 AN ESTIMATED QUANTITY OF 50 FT OF 8" PIPE HAS BEEN INCLUDED IN THE ROADWAY PLANS FOR REPLACEMENT OF THE MISSING OR BROKEN UNDERGROUND PIPE.

PIER CONCRETE ITEM 519 PATCHING - SUMMARY TABLE			
LOCATION	MEASURED QTY (S.F.)	CONTINGENCY FACTOR	TOTAL (S.F.)
PIER 8	64	1.25	80

DESIGN AGENCY: PALMER ENGINEERING ARCHITECTURE, INC. 11000 WOODBURN AVENUE, SUITE 100, CINCINNATI, OH 45242

DATE: 4/07

REVISED: 5/10/2561

STATION: 5102561

DESIGNED: WAH, CHECKED: BJJ

DRAWN: WAH, REVISED:

PIER 8 DETAIL

MAR-95-1436

COLUMBIA STREET OVER CSX AND NS RAILROADS

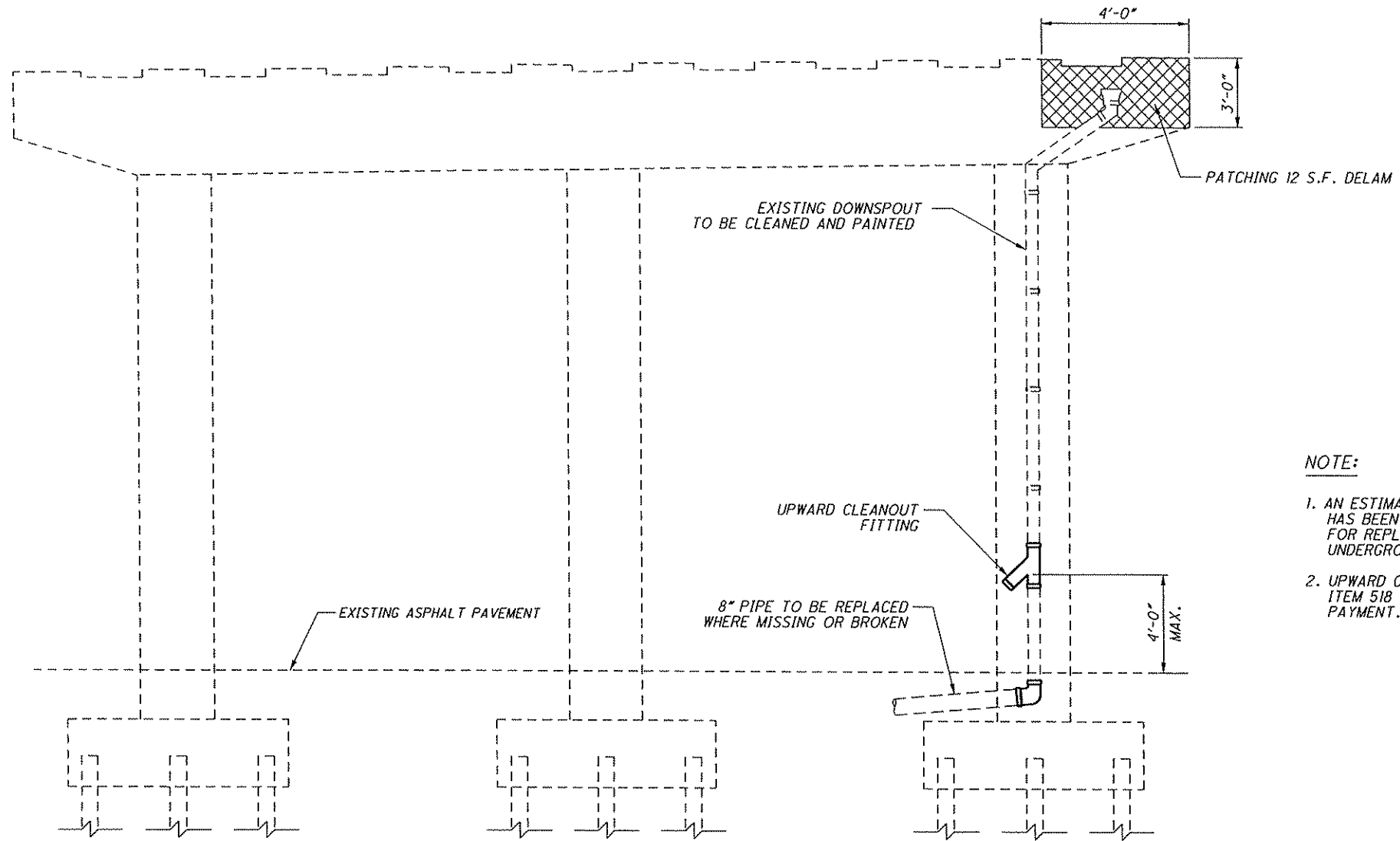
MAR-4D-0.70

MAR-95-14.36

PID No. 79938

S19

S21



**PIER 9 ELEVATION VIEW**  
 (LOOKING BACK)

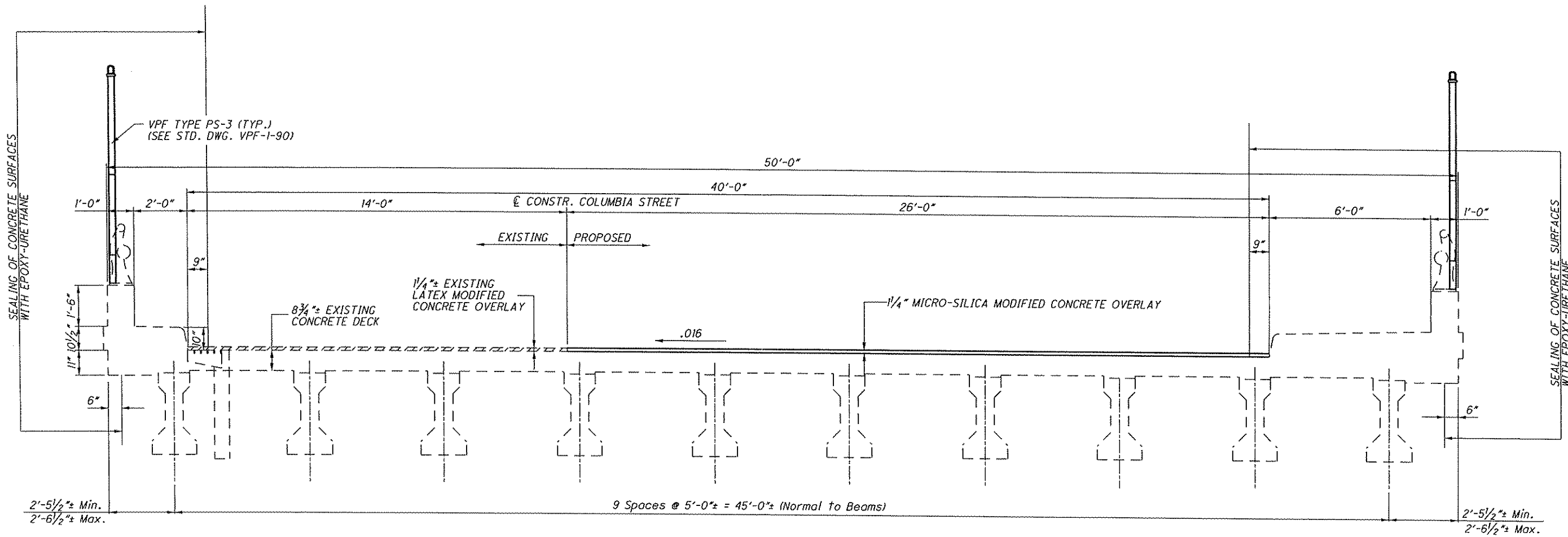
**NOTE:**

1. AN ESTIMATED QUANTITY OF 50 FT OF 8" PIPE HAS BEEN INCLUDED IN THE ROADWAY PLANS FOR REPLACEMENT OF THE MISSING OR BROKEN UNDERGROUND PIPE.
2. UPWARD CLEANOUT FITTING IS INCLUDED WITH ITEM 518 - DOWNSPOUT MODIFICATION 6" FOR PAYMENT.

PIER CONCRETE ITEM 519 PATCHING - SUMMARY TABLE			
LOCATION	MEASURED QTY (S.F.)	CONTINGENCY FACTOR	TOTAL (S.F.)
P9	12	1.25	15

04/17/2007 01:25:04 PM BY:SCOTT-W  
 O:\0001\MARY 79938\BRIDGE\MAR095\_1436C\SHEETS\095\_1436T5001.DGN  
 MODEL SHEET

**Palmer** ENGINEERING  
 1500 CORNELL BLVD. DR.  
 CINCINNATI, OH 45242  
 TEL: 513-752-1100 FAX: 513-752-1101



▨ ITEM 848 EXISTING CONCRETE OVERLAY REMOVED USING HYDRODEMOLITION.

<b>MAR-4D-0.70</b> <b>MAR-95-14.36</b> PID No. 79938	<b>TRANSVERSE SECTION</b> MAR-95-1436 COLUMBIA STREET OVER C&O AND N&W RAILROADS	DESIGNED: WAH CHECKED: BJJ	DRAWN: ALZ REVISED:	REV: L DATE: 4/07 STRUCTURE FILE NUMBER: 5102561	DESIGN AGENCY: <b>Palmer</b> ENGINEERING 1500 CORNELL BLVD. DR. CINCINNATI, OH 45242 TEL: 513-752-1100 FAX: 513-752-1101
		SEALING OF CONCRETE SURFACES WITH EPOXY-URETHANE			



4/17/2007 3:09:36 PM BY: DAN.F  
 #FILE# S:MODEL.NAMES  
 PALMER ENGINEERING  
 1500 CONANT PARK DR  
 CINCINNATI, OH 45242  
 ENGINEERING DIVISION  
 TEL: 513-752-1100 FAX: 513-752-1101

**ITEM 614, MAINTAINING TRAFFIC (ACCESS ROADS)**

A MINIMUM OF 1 LANE(S) OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON THE SIDE ACCESS ROADS BY USE OF THE EXISTING PAVEMENT WHILE THE OVERPASSES ARE DETOURED

**ITEM 614, MAINTAINING TRAFFIC (PROSPECT AND COLUMBIA)**

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 5 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 7. DISINCENTIVES SHALL BE ASSESSED IN ACCORDANCE WITH CMS 108.07 (IN THE AMOUNT OF \$26,000 PER DAY FOR PROSPECT STREET AND \$2,000 PER DAY FOR COLUMBIA STREET) FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

BOTH BRIDGES SHALL NOT BE CLOSED AT THE SAME TIME

5 CONSECUTIVE CALANDAR DAYS OR SHORTER DURATION DETOURS MUST BE SEPARATED BY 5 OR MORE CONSECUTIVE CALANDAR DAYS IF MULTIPLE DETOUR PERIODS ARE USED.

**ITEM 614, MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)**

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS	FOURTH OF JULY
NEW YEARS	LABOR DAY
MEMORIAL DAY	THANKSGIVING
(OTHER HOLIDAY OR EVENT)	

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF THE WEEK	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY-WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA-WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH CMS 108.07.

**ITEM 614, MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)**

NOTICE OF CLOSURE SIGNS, AS DETAILED IN THESE PLANS, SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD OR RAMP CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

BRIDGE WILL BE  
 CLOSED <DATE>  
 FOR XXDAYS  
 INFO: 614-XXX-XXXX

W20-H13

**ITEM 614, MAINTAINING TRAFFIC (ROAD CLOSED SIGN)**

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

PROSPECT ROAD (MAR-4D-0070)  
 STATION 597+75  
 COLUMBIA STREET (MAR-95-1436)  
 STATION 111+00  
 STATION 124+60

**ITEM 614, MAINTAINING TRAFFIC (CLOSING PARAGRAPH FOR NOTE)**

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

**ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR)**

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), A UNIFORMED LAW ENFORCEMENT OFFICER (AND OFFICIAL PATROL CAR WITH WORKING TOP-MOUNTED EMERGENCY FLASHING LIGHTS) SHALL BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED.

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

LAW ENFORCEMENT OFFICERS (LEOS) SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. THE LEOS ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR, THE ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT. THE OFFICIAL PATROL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THESE SERVICES WITH:

MARION POLICE  
 233 WEST CENTER STREET  
 MARION, OHIO 43302  
 (740) 387-0541

LAW ENFORCEMENT OFFICERS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR). THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR HOURS

THE HOURS PAID SHALL INCLUDE MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

IF CONTRACTORS WISH TO UTILIZE LEOS FOR FLAGGING AND TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THESE PLANS, THEY MAY DO SO AT THEIR OWN EXPENSE. PAYMENT FOR THE EXCESS ABOVE THE CONTRACT REQUIREMENTS WILL BE INCLUDED UNDER ITEM 614, MAINTAINING TRAFFIC.

**MAINTENANCE OF RAILROAD TRAFFIC**

SEE BRIDGE GENERAL NOTES FOR RAILROAD FLAGGING REQUIREMENTS AND LIMITATIONS

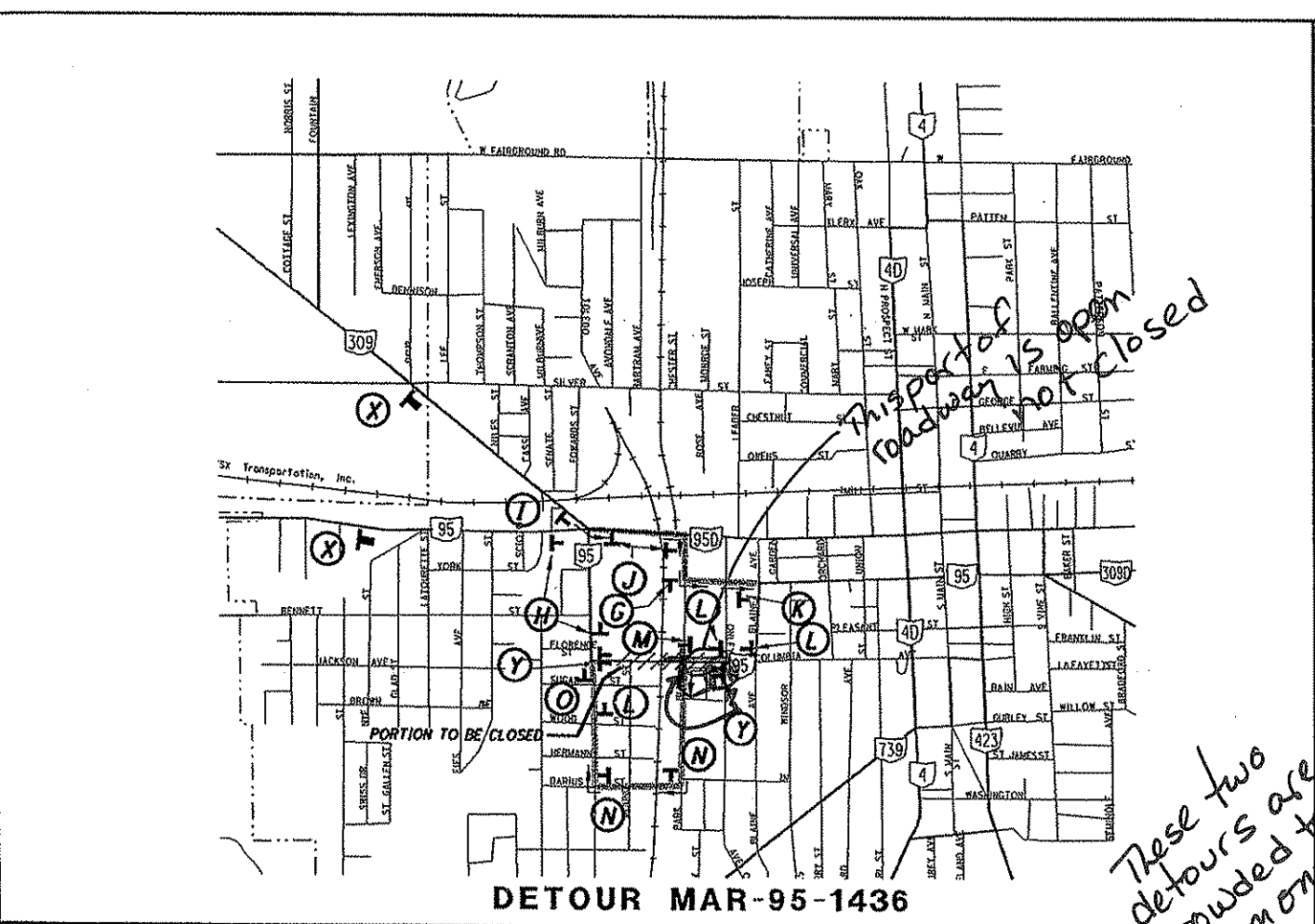
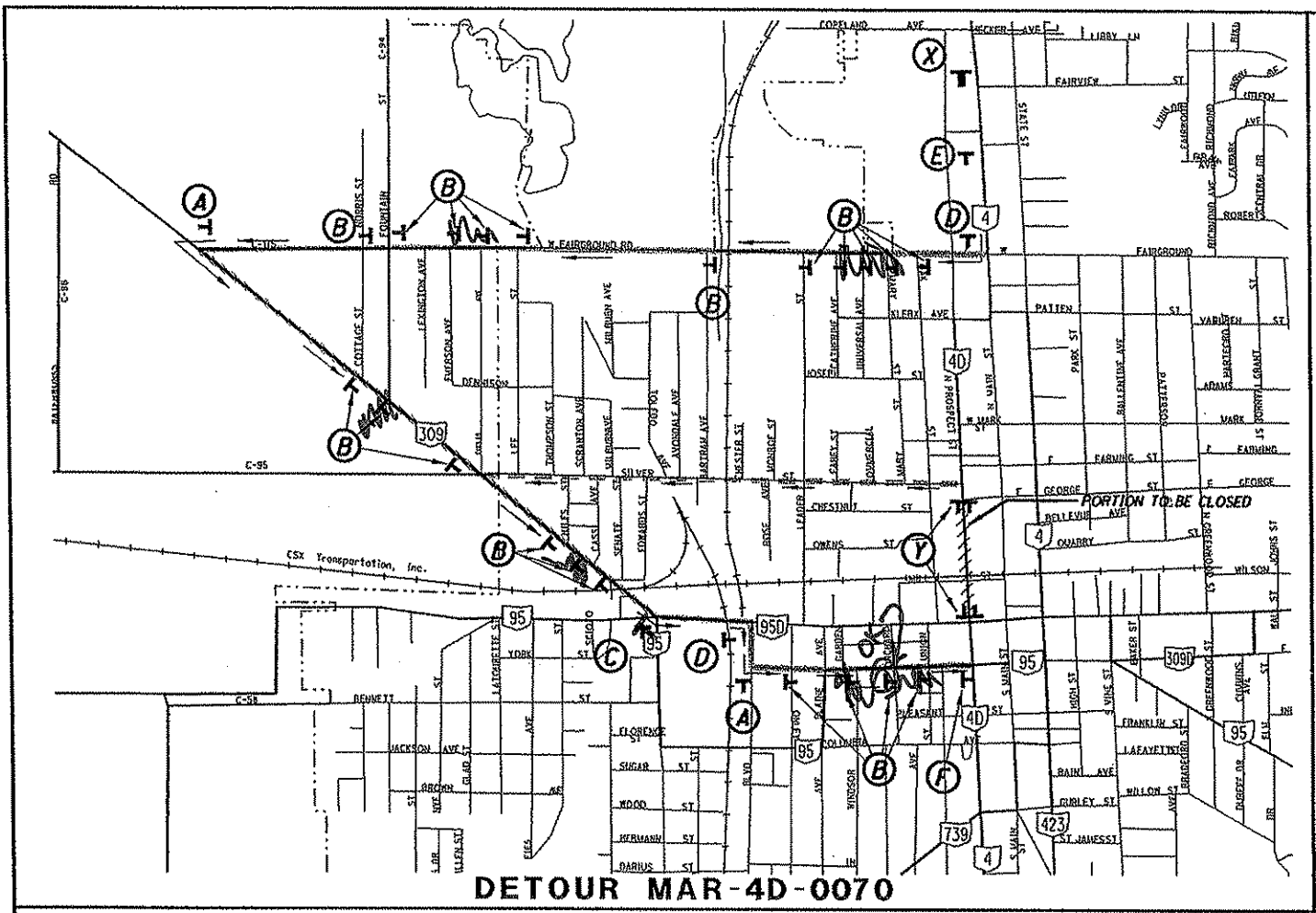
Bring note here also

ADD Following:  
 From TEM  
 642-19

How long is the closure?  
 WHERE IS THE sequence of  
 construction?  
 Need:  
 A+B contract if it is not  
 critical finish dates  
 OR  
 incentive/disincentive if  
 aggressive finish date is  
 needed

ADD:  
 Any additional costs (administrative or otherwise) incurred by the contractor to obtain the services of a LEO are included with in the bid unit price for Item 614 - LEO with patrol car

4/17/2007 3:32:01 PM BY: DAN F  
 #FILE#  
 MODEL# SMOELNAMES  
 PALMER ENGINEERING  
 1800 CORNELL PARK DR  
 CINCINNATI, OH 45242  
 TEL: 513-752-1000 FAX: 513-752-1001  
 WWW.PALMERENGINEERING.COM

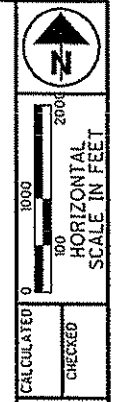


DETOUR MAR-4D-0070

DETOUR MAR-95-1436

LEGEND

<p><b>A</b></p> <p>M4-8-24 M3-3-24 M1-5-24-2 M5-1L-24</p>	<p><b>D</b></p> <p>M4-8-24 M3-3-24 M1-5-24-2 M5-1R-24</p>	<p><b>G</b></p> <p>M4-8-24 M3-2-24 M1-5-24-2 M5-1L-24</p>	<p><b>J</b></p> <p>M4-8-24 M3-2-24 M1-5-24-2 M5-1R-24</p>	<p><b>M</b></p> <p>M4-8-24 D-3-1 M5-1-L</p>	<p><b>X</b></p> <p>R11-3A-60</p>
<p><b>B</b></p> <p>M4-8-24 M3-3-24 M1-5-24-2 M6-3-24</p>	<p><b>E</b></p> <p>M3-3-24 M1-5-24-2 M4-9R-48</p>	<p><b>H</b></p> <p>M4-8-24 M3-2-24 M1-5-24-2 M6-3-24</p>	<p><b>K</b></p> <p>M4-8A-24 M3-2-24 M1-5-24-2 M6-3-24</p>	<p><b>N</b></p> <p>M4-8-24 D-3-1 M5-1-R</p>	<p><b>Y</b></p> <p>R11-2-48 TYPE III BARRICADES</p>
<p><b>C</b></p> <p>M4-8-24 M3-3-24 M1-5-24-2 M5-2L-24</p>	<p><b>F</b></p> <p>M4-8A-24 M3-3-24 M1-5-24-2 M5-1R-24</p>	<p><b>I</b></p> <p>M4-8-24 M3-2-24 M1-5-24-2 M5-2L-24</p>	<p><b>L</b></p> <p>M4-8-24 D-3-1 M6-3-24</p>	<p><b>O</b></p> <p>M4-8A-24 D-3-1 M6-3-24</p>	<p>----- SIGNED DETOUR</p> <p>===== DESIGNATED LOCAL DETOUR ROUTE</p> <p>////// PORTION TO BE CLOSED</p>



CALCULATED  
 CHECKED

DETOUR

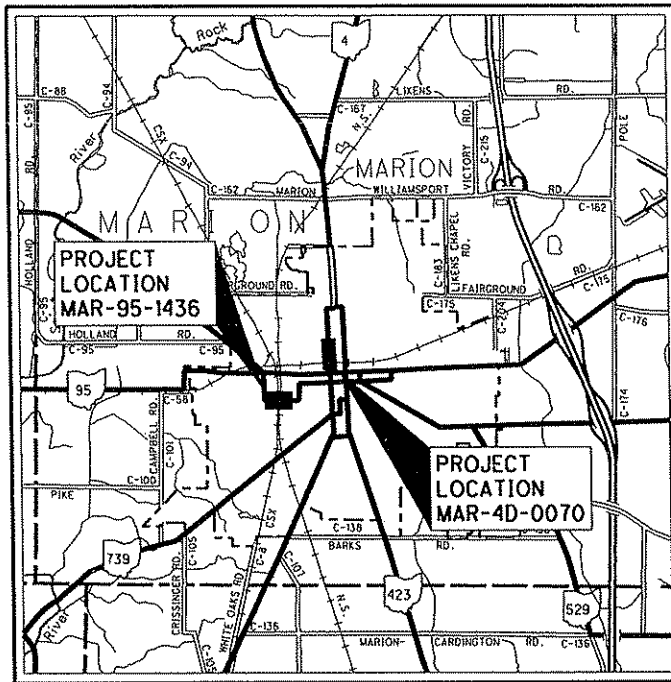
MAR-4D-0.70  
 MAR-95-14.36

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

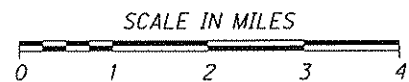
**MAR-4D-0.70**  
**MAR-95-14.36**

RECONSTRUCTION OF THE EXISTING  
SEPERATED CROSSINGS WITH CSX AND  
NORFOLK AND WESTERN SOUTHERN  
PROSPECT STREET OVERPASS (MAR-4D-0070)  
COLUMBIA STREET OVERPASS (MAR-95-1436)

CITY OF MARION  
MARION COUNTY



LOCATION MAP  
MAR-4D: LATITUDE: W 40°35'25" LONGITUDE: N 83°07'50"  
MAR-95: LATITUDE: W 40°35'04" LONGITUDE: N 83°08'26"



PORTION TO BE IMPROVED	---
INTERSTATE & DIVIDED HIGHWAY	====
UNDIVIDED STATE & FEDERAL ROUTES	====
OTHER ROADS	----

DESIGN DESIGNATION	MAR-4D-0070	MAR-95-1436
CURRENT ADT (2030)	7118	7794
DESIGN YEAR ADT (2030)	8685	11580
DESIGN HOURLY VOLUME (2030)	870	1160
DIRECTIONAL DISTRIBUTION	55%	55%
TRUCKS (24 HOUR B&C)	8%	4%
DESIGN SPEED	30 MPH	30 MPH
LEGAL SPEED	25 MPH	25 MPH
DESIGN FUNCTIONAL CLASSIFICATION:		
URBAN PRINCIPAL ARTERIAL		
NHS PROJECT	NO	

INDEX OF SHEETS:

STAGE 2 PLANS  
APPLY 20, 2007

TITLE SHEET	1
SCHEMATIC PLAN	2
TYPICAL SECTIONS	3-4
GENERAL NOTES	5
MAINTENANCE OF TRAFFIC	6-7

PLAN AND PROFILE (MAR-4D-0.70)	PP1-PP3
PLAN AND PROFILE (MAR-95-14.36)	PP4-PP6
TRAFFIC CONTROL	TC1-TC2
STRUCTURES OVER 20' SPAN	
MAR-4D-0070	S1-S9
MAR-95-1436	S10-S21

PROJECT DESCRIPTION

MINOR REHABILITATION OF BRIDGE NUMBERS MAR-4D-0070 (PROSPECT ST.) AND MAR-95-1436 (COLUMBIA ST.) INCLUDING DECK OVERLAYS, PATCHING, DRAINAGE SYSTEM REPAIR, AND OTHER REPAIRS.

PROJECT EARTH DISTURBED AREA: N/A ACRES  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A ACRES  
NOTICE OF INTENT EARTH DISTURBED AREA: N/A ACRES

2005 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT AS NOTED ON SHEETS 6-7, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

ENGINEERS SEAL:	STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS
SIGNED: _____ DATE: _____					
ENGINEERS SEAL:					
SIGNED: _____ DATE: _____					
					SPECIAL PROVISIONS

PLANS CERTIFIED BY:

NAME \_\_\_\_\_ DATE \_\_\_\_\_  
DISTRICT 6  
OHIO DEPARTMENT OF TRANSPORTATION

APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ DISTRICT DEPUTY DIRECTOR

APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ DIRECTOR, DEPARTMENT OF TRANSPORTATION

12:02:37 PM BY: DAN.F  
4/18/2007  
PALMER ENGINEERING  
11300 CORNELL PARK DR  
CINCINNATI, OH 45242  
TEL: 513-752-1100 FAX: 513-752-1101  
WWW.PALMERENGINEERING.COM

**UNDERGROUND UTILITIES**  
CONTACT BOTH SERVICES  
CALL TWO WORKING DAYS  
BEFORE YOU DIG

CALL  
1-800-362-2764  
(TOLL FREE)

OHIO UTILITIES PROTECTION SERVICE  
NON-MEMBERS  
MUST BE CALLED DIRECTLY

OIL & GAS PRODUCERS PROTECTIVE  
SERVICE CALL: 1-800-925-0988

PLAN PREPARED BY:

**Palmer ENGINEERING**  
11300 CORNELL PARK DR  
CINCINNATI, OH 45242  
WINCHESTER • WASHINGTON • LOUISVILLE  
COLUMBIANA • MARIETTA • HUBERT ERBE

FEDERAL PROJECT NO. **E051 (291)**

PID NO. **79938**

CONSTRUCTION PROJECT NO. **NORFOLK & WESTERN**

RAILROAD INVOLVEMENT **CSX TRANSPORTATION, INC.**

**NORFOLK & WESTERN SOUTHERN CORPORATION**

**MAR-4D-0.70**  
**MAR-95-14.36**

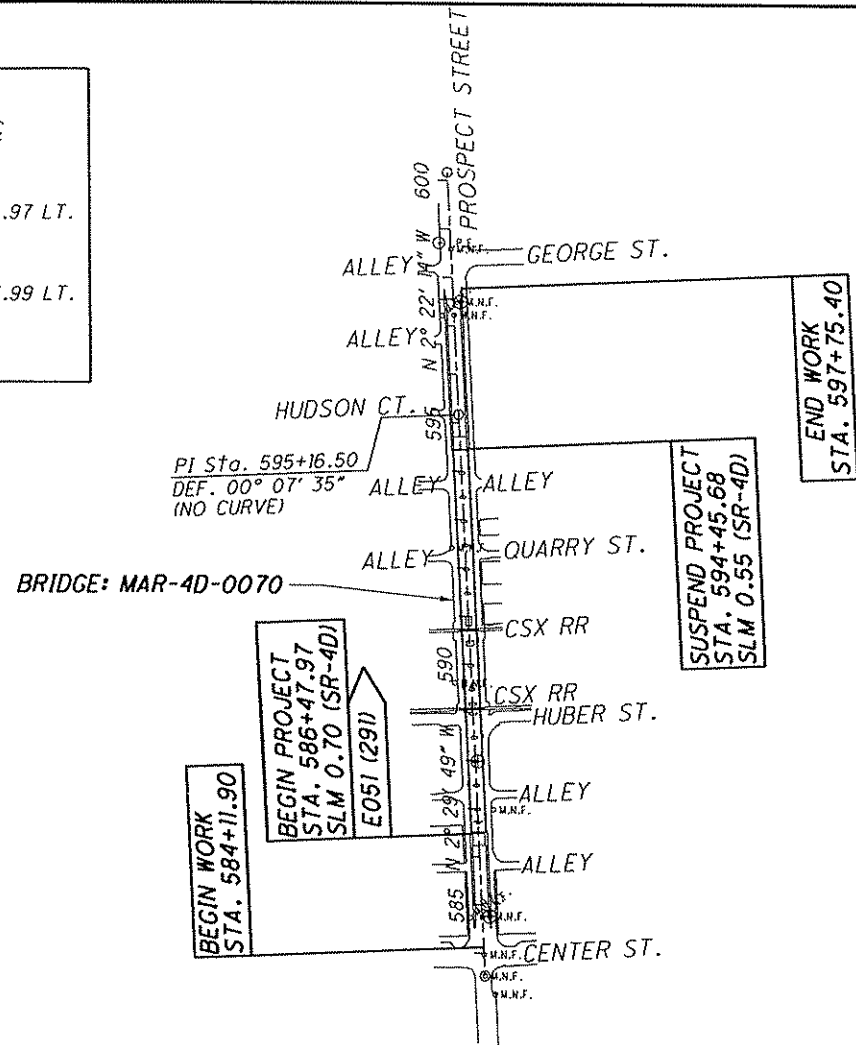


4/17/2007 3:09:27 PM BY: DAN-F  
 #FILEL5  
 MODEL: \$MODELNAME\$

**Palmer Engineering**  
 13300 CORNELL PARK DR  
 CINCINNATI, OH 45242  
 ENGINEERING  
 WINCHESTER, OH 45391

**BENCHMARKS SR-4D**  
 SET MAG NAIL  
 ELEV. 970.07  
 STA 597+48.16 - 14.90' RT  
 SET MAG NAIL  
 ELEV. 975.55  
 STA 584+75.22 - 15.28' RT  
 ODOT DISK IN PIER  
 (88'+ SOUTH OF HUBER ST)  
 ELEV.=978.02  
 STA. 587+97.53 - 5.12 RT.

**☒ REFERENCES SR-4D**  
 MAG NAIL: STA. 583+52.25 - ☒  
 MAG NAIL: STA.583+96.61 - ☒  
 MAG NAIL: STA.584+73.91 - 24.97 LT.  
 MAG NAIL: STA.584+73.91 - ☒  
 MAG NAIL: STA.597+21.66 - 24.99 LT.  
 MAG NAIL: STA.597+21.69 - ☒



END WORK  
 STA. 597+75.40

SUSPEND PROJECT  
 STA. 594+45.68  
 SLM 0.55 (SR-4D)

BEGIN WORK  
 STA. 584+11.90

BEGIN PROJECT  
 STA. 586+47.97  
 SLM 0.70 (SR-4D)



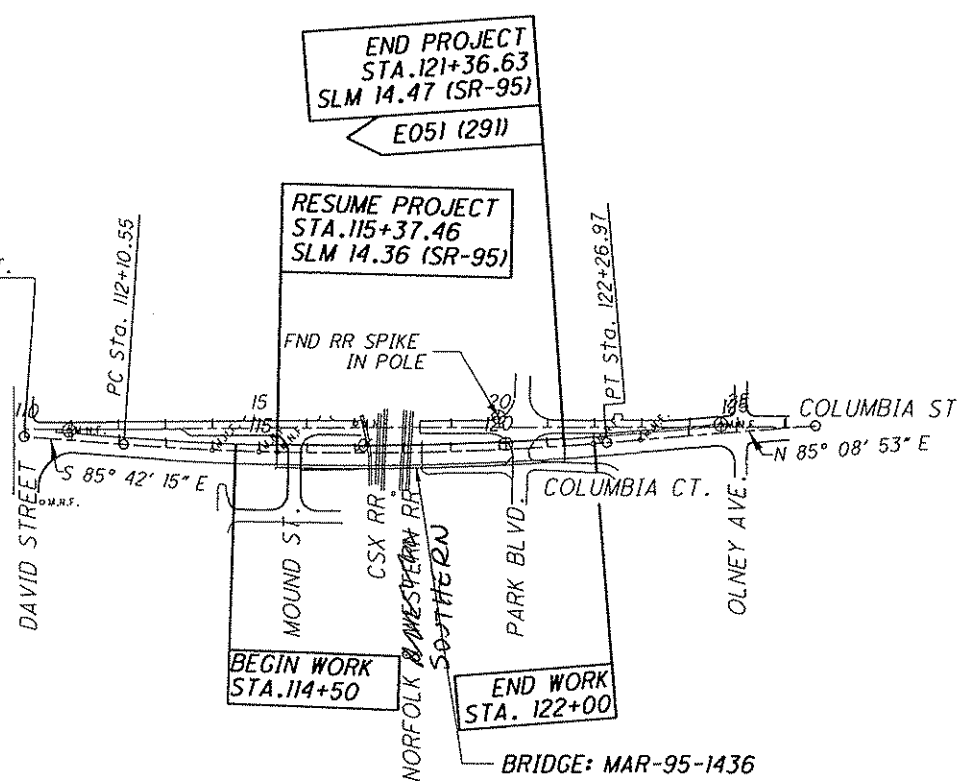
CALCULATED  
 CHECKED  
**SCHEMATIC PLAN**

**MAR-4D-0.70**  
**MAR-95-14.36**

STA. 109+98.62 ☒ COLUMBIA ST.  
 = ☒ DAVID ST.

**CURVE DATA  
 COLUMBIA ST. OVERPASS**

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



END PROJECT  
 STA. 121+36.63  
 SLM 14.47 (SR-95)

RESUME PROJECT  
 STA. 115+37.46  
 SLM 14.36 (SR-95)

BEGIN WORK  
 STA. 114+50

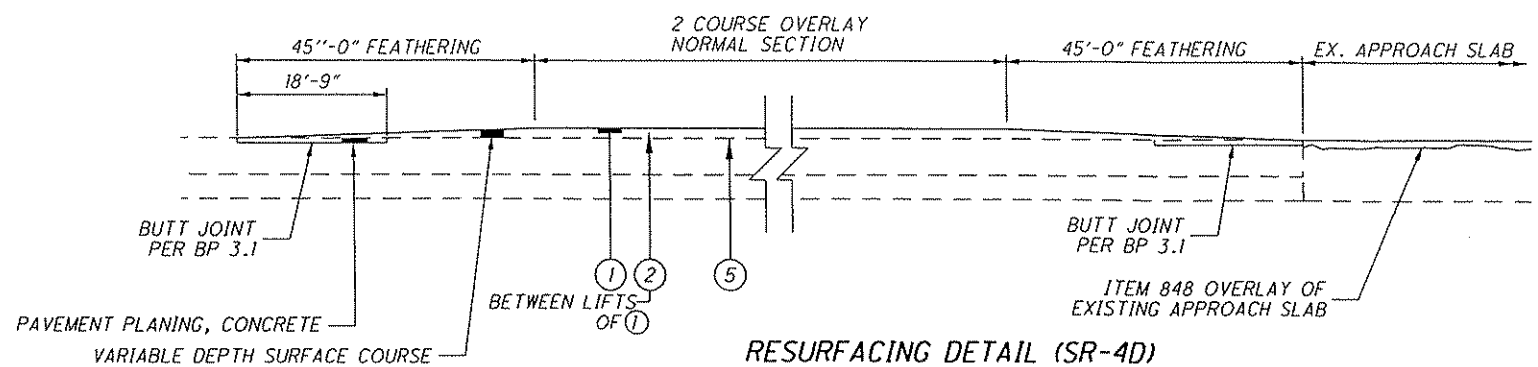
END WORK  
 STA. 122+00

**BENCHMARKS SR-95**  
 SET MAG NAIL  
 ELEV. 958.71  
 STA. 124+67.50 - 17.94' LT  
 ODOT DISK IN BRIDGE PIER  
 ELEV. 956.68  
 STA. 120+14.87 - 10.96 LT.  
 SET MAG NAIL  
 ELEV. 954.99  
 STA. 110+92.84 - 20.18 LT.

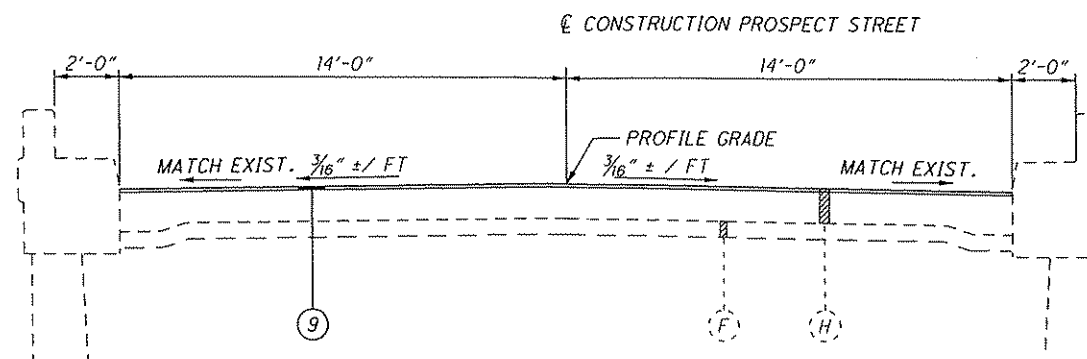
**☒ REFERENCES SR-95**  
 MAG NAIL: STA. 114+00.01 - 0.06 LT.  
 MAG NAIL: STA. 114+99.80 - ☒  
 MAG NAIL: STA. 115+37.17 - 0.04 RT.  
 MAG NAIL: STA. 121+98.18 - 0.02 RT.  
 MAG NAIL: STA. 122+98.03 - 0.08 RT.

4/17/2007 3:09:30 PM BY: DAN-F  
 SF: FILEL.S  
 MODEL: SHMODEL.NAMES

Palmer Engineering  
 1700 CORNELL PARK DR  
 CINCINNATI, OH 45242  
 TEL: 513-752-1100 FAX: 513-752-1101  
 WWW.PALMERENGINEERING.COM

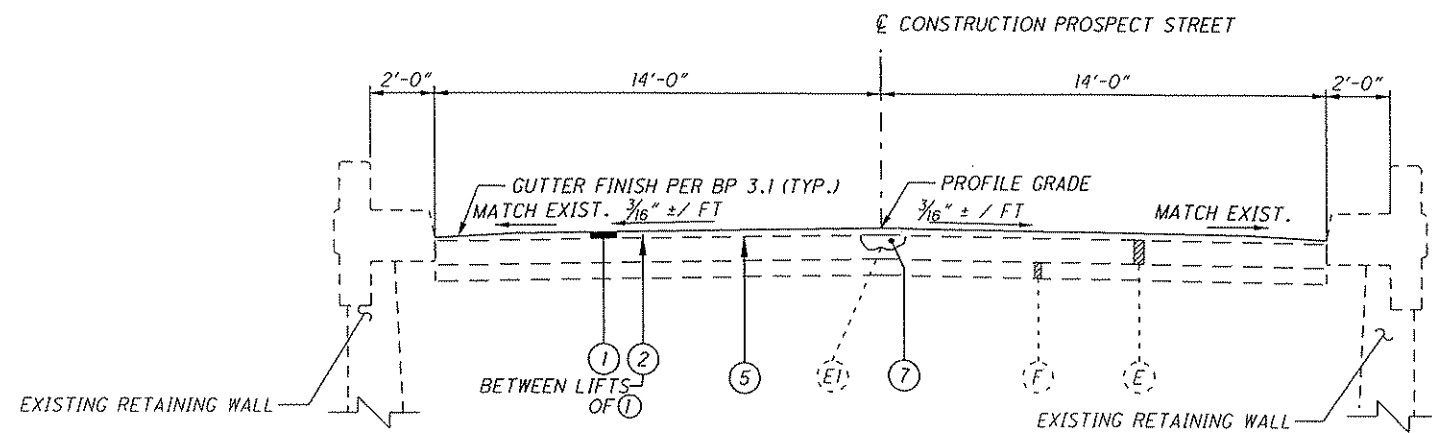


RESURFACING DETAIL (SR-4D)



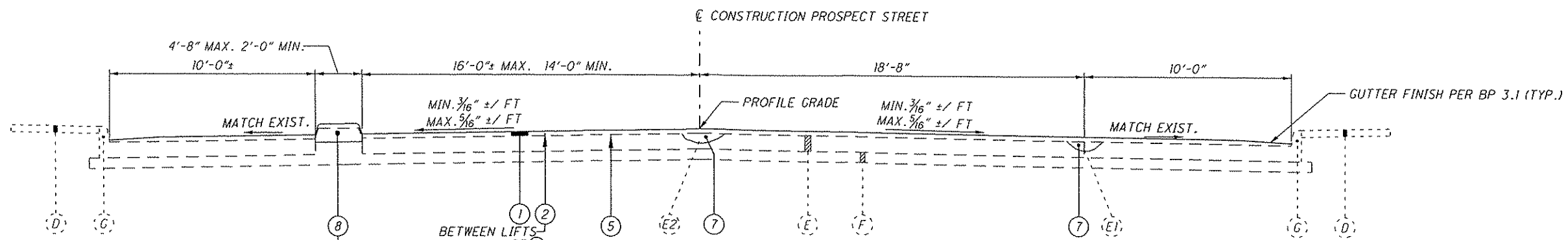
PROSPECT STREET (SR-4D) - APPROACH SLAB SECTION

STATION 586+22.97 TO STATION 586+47.97 = 25.00 LIN FT  
 STATION 594+45.68 TO STATION 594+70.68 = 25.00 LIN FT



PROSPECT STREET (SR-4D) - NORMAL SECTION

STATION 584+73.50 TO STATION 597+75.40 = 454.19 LIN FT  
 (DEDUCT 847.71 LIN FT STATION 586+22.97 TO STATION 594+70.68 FOR STRUCTURE MAR-4D-0070)



PROSPECT STREET (SR-4D) - NORMAL SECTION

STATION 584+11.90 TO STATION 584+73.50 = 61.60 LIN FT

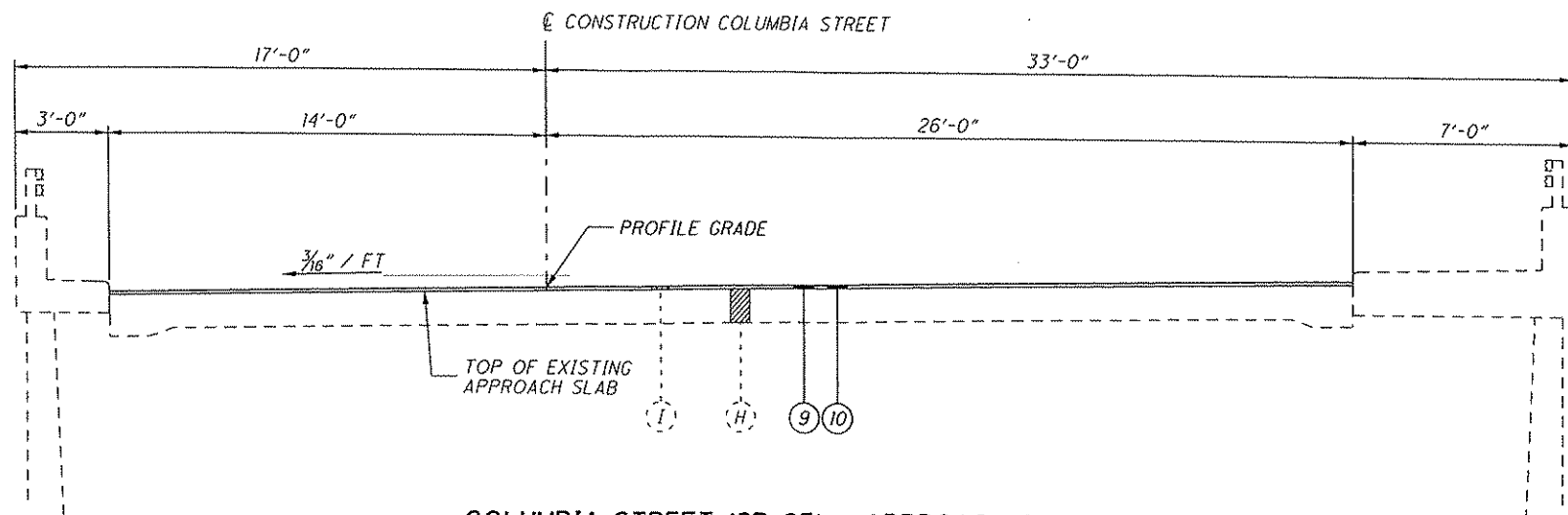
LEFT SIDE SHOWN,  
 SEE PLANS FOR LOCATIONS,  
 SEE DETAIL ON SHEET PPI

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
  - (H) 13" REINFORCED CONCRETE APPROACH SLAB
  - (I) 1 1/4" ASPHALT CONCRETE
- PROPOSED ITEMS
- (1) ITEM 448 - 3" ASPHALT CONCRETE SURFACE COURSE, TYPE 1H, (TWO EQUAL LIFTS)
  - (2) ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE
  - (4) ITEM 407 - TACK COAT
  - (5) ITEM 407 - TACK COAT, 702.13
  - (6) ITEM 254 - 3" PAVEMENT PLANING, ASPHALT CONCRETE
  - (7) ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR
  - (8) ITEM 609 - CONCRETE TRAFFIC ISLAND
  - (9) ITEM 848 - 1-1/4" MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION
  - (10) ITEM 202 - WEARING COURSE REMOVED
- ? Should be the same

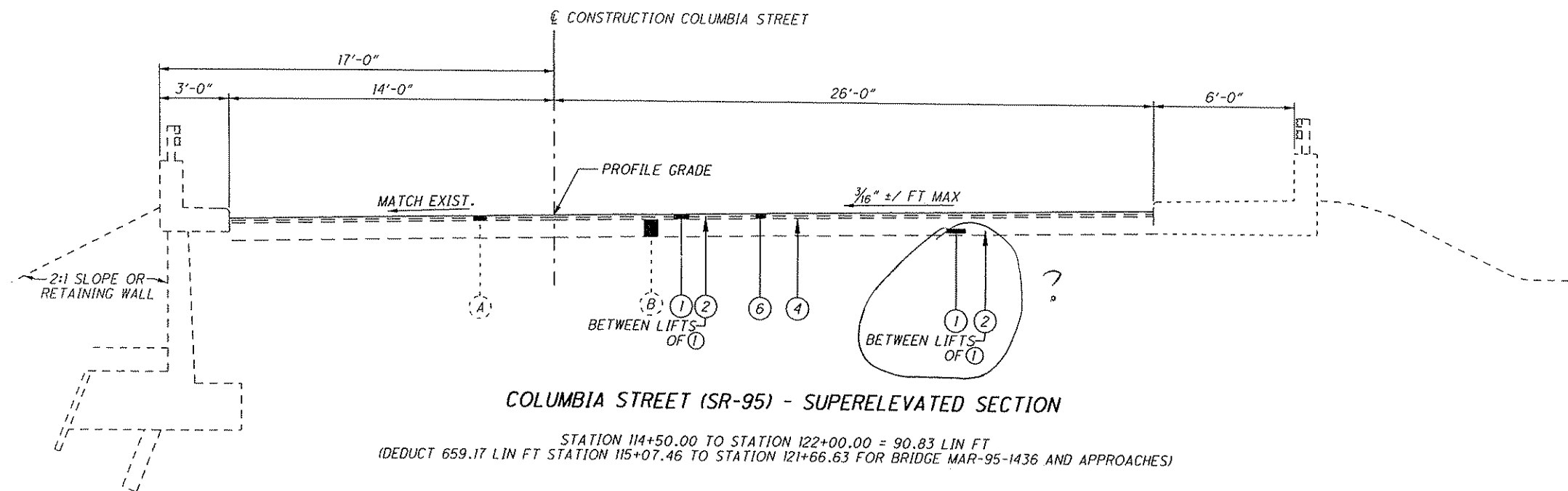
TYPICAL SECTIONS - PROSPECT STREET (SR-4D)

MAR-4D-0.70  
 MAR-95-14.36



COLUMBIA STREET (SR-95) - APPROACH SLAB SECTION

STATION 115+07.46 TO STATION 115+37.46 = 30.00 LIN. FT  
 STATION 121+36.63 TO STATION 121+66.63 = 30.00 LIN. FT



COLUMBIA STREET (SR-95) - SUPERELEVATED SECTION

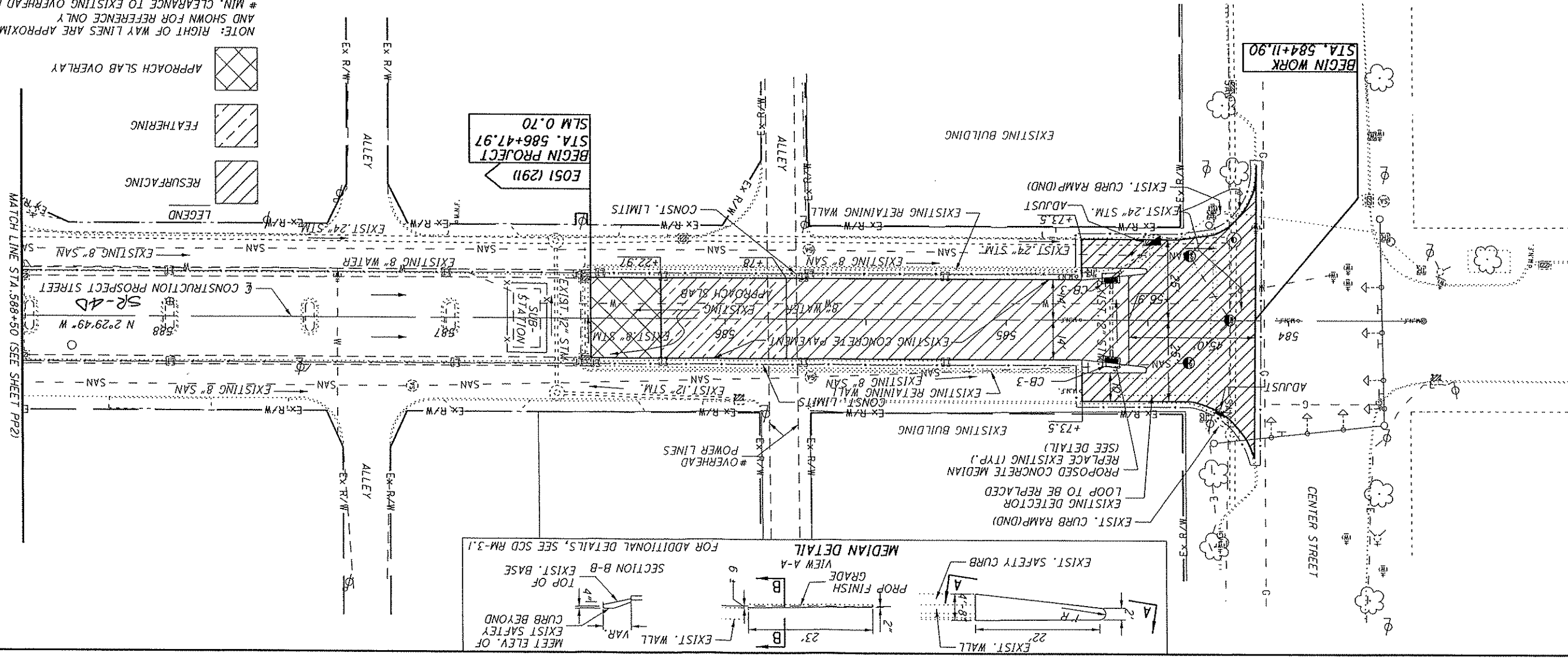
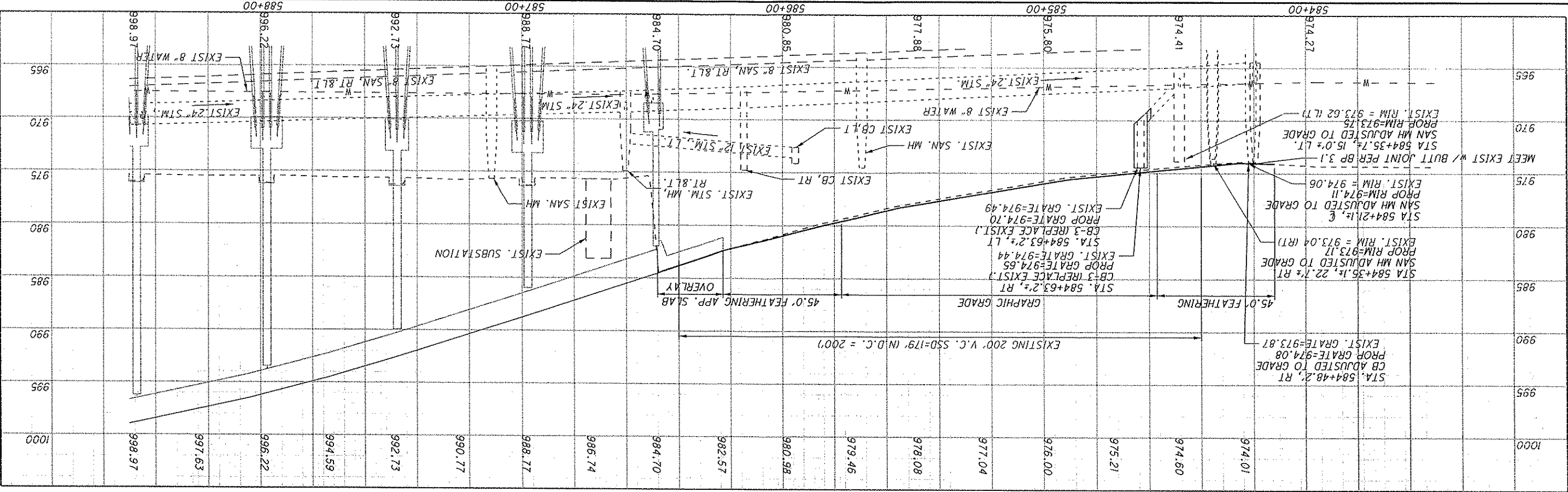
STATION 114+50.00 TO STATION 122+00.00 = 90.83 LIN FT  
 (DEDUCT 659.17 LIN FT STATION 115+07.46 TO STATION 121+66.63 FOR BRIDGE MAR-95-1436 AND APPROACHES)

4/18/2007 1:18:31 PM BY: DAN.F  
 SF: ILEL.S  
 MODEL: SMODEL.NAMES

Palmer Engineering  
 13300 CORNELL PARK DR  
 CINCINNATI, OH 45242  
 VINCESA WASHVILLE, OH 45156  
 CINCINNATI, OH 45242

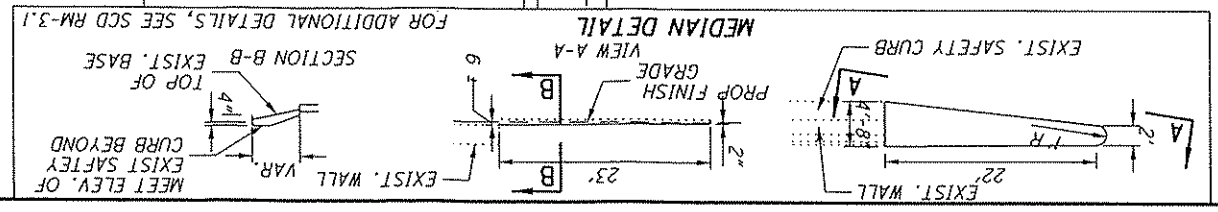
TYPICAL SECTIONS - COLUMBIA STREET (SR-95)

MAR-4D-0.70  
 MAR-95-14.36



NOTE: RIGHT OF WAY LINES ARE APPROXIMATE AND SHOWN FOR REFERENCE ONLY  
# MIN. CLEARANCE TO EXISTING OVERHEAD POWER LINES = 15'

- LEGEND
- APPROACH SLAB OVERLAY
  - FEATHERING
  - RESURFACING



PP1

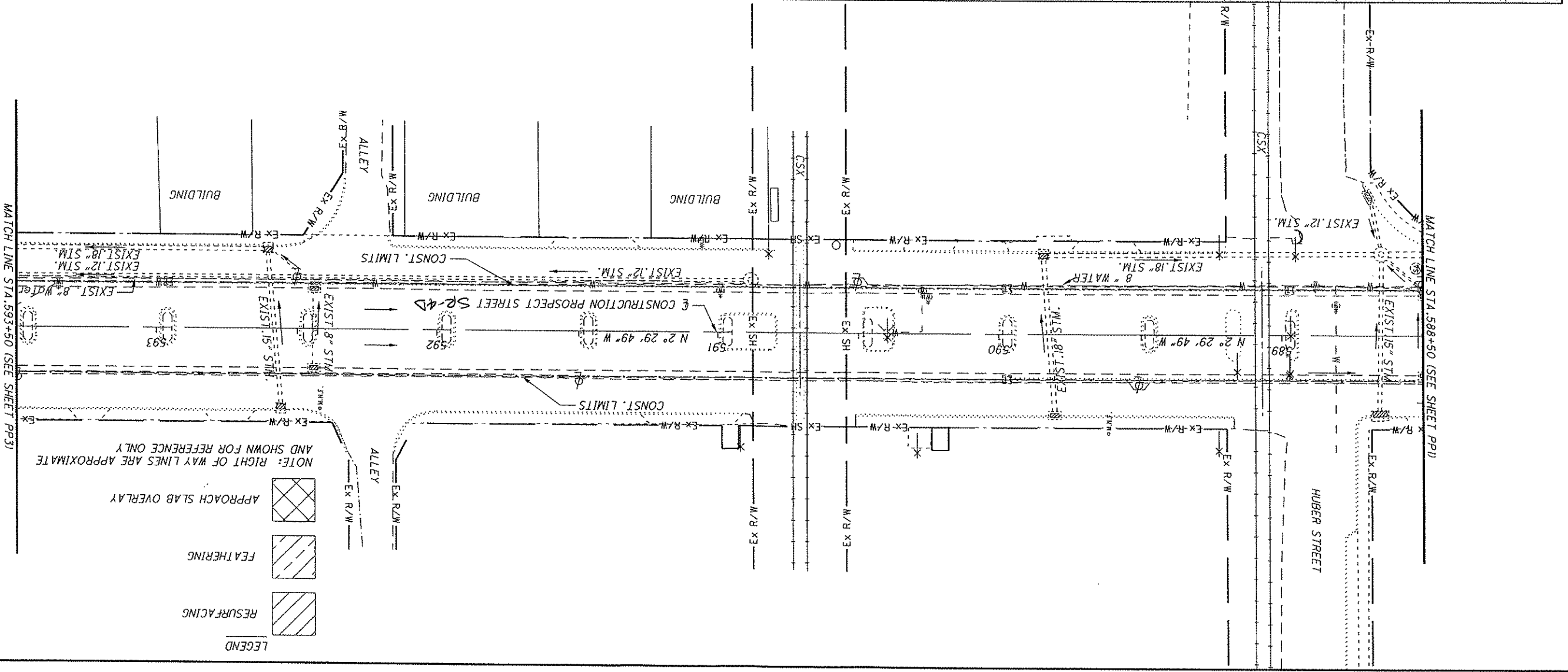
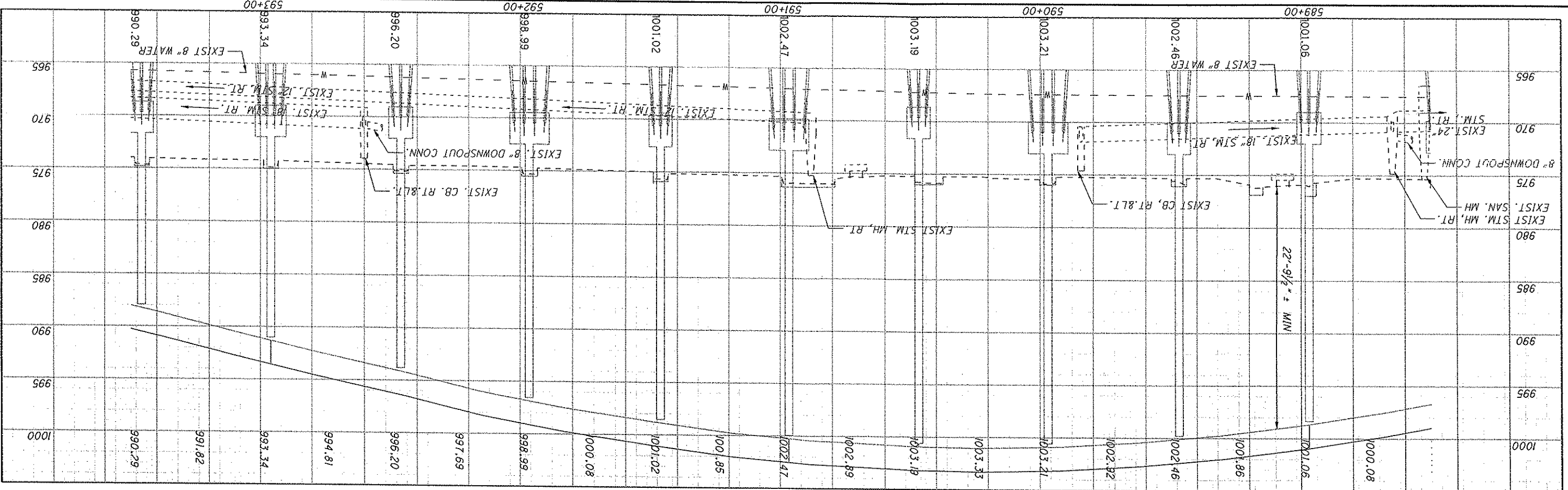
MAR-4D-0.70  
MAR-95-14.36

PLAN AND PROFILE PROSPECT STREET (SR 4D)  
STA 583+50 TO 588+50

CALCULATED  
CHECKED

0 20 40  
HORIZONTAL  
SCALE IN FEET

N



LEGEND

- APPROACH SLAB OVERLAY
- FEATHERING
- RESURFACING

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

MAR-4D-0.70  
 MAR-95-14.36  
 PLAN AND PROFILE PROSPECT STREET (SR 4D)  
 STA 588+50 TO STA 593+50

CHECKED  
 SCALE IN FEET  
 HORIZONTAL SCALE IN FEET

# INTEROFFICE MEMO



**Date:** January 13, 2007

**To:** Tom G. Makris, P.E., Project Manager

**From:** Kevin R. Fiant, P.E., D6 Structure Reviewer *KF*

**Subject:** MAR-4D-0.70, PID 79938; S2 Structure Comments

---

I have reviewed the above referenced submittal and offer the following comments below.

## **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.
2. Also agree with methodology and pay item for scupper cleaning.
3. Will areas under the structure require closure during repairs? This should be evaluated and addressed with stage 3 submittal.
4. Can Cleanouts be added to scupper downspouts on this structure to facilitate maintaining as is being done on the MAR-95 structure?

## **Mar-95-1436; Columbia Street Overpass**

1. Agree with designer's recommendation for epoxy injection of crack on I-beam.
2. Will areas under the structure require closure during repairs? This should be evaluated and addressed with stage 3 submittal.

Nothing in these comments is to be construed as authorizing extra work for which additional compensation may be claimed. If you have reason to believe that these comments require work outside the limits of the Scope of Services, please contact this office before proceeding.

If you have any questions please do not hesitate to contact me at 740-833-8056.

cc: B. Birch, R. Taylor, J. Adams, Project File, Chrono File



# OHIO DEPARTMENT OF TRANSPORTATION

DISTRICT 6 • INTER-OFFICE COMMUNICATION  
OFFICE OF PRODUCTION

**To:** Thomas Makris, PE, Project Coordinator, District 6  
**From:** Dennis Sheets, Staff Specialist, District 6  
**Date:** May 15, 2007  
**Subject:** MAR-4D-0.70, PID 79938, Stage 2 General Review Comments

---

Following are my comments on the subject plan:

**Sheet 1:**

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

**Sheet 2:**

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

**Sheet 3:**

- 1) References A and 6 should be the same thickness.

**Sheet 4:**

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

**Sheets PP1 – PP3:**

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

**Sheets PP4 – PP6:**

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

I have attached a marked up set of plans for your use. If you have any questions, please contact Dennis Sheets at 740 833-8089.

Attachments

c: Project File, Chrono File



# PLAN REVIEW FORM

## ODOT DISTRICT 6

DATE: Wednesday, April 25, 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	Need ROW Certification
Fay Taylor	ODOT-D6	Traffic Control
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: Stage 2 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: Monday, May 28, 2007.

Signed:

Date:

5-15-07

**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](mailto: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: Herb Ligocki, Project File, Chrono File





# OHIO DEPARTMENT OF TRANSPORTATION

DISTRICT 6 • INTER-OFFICE COMMUNICATION

OFFICE OF PRODUCTION

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c: Project File, Chrono File