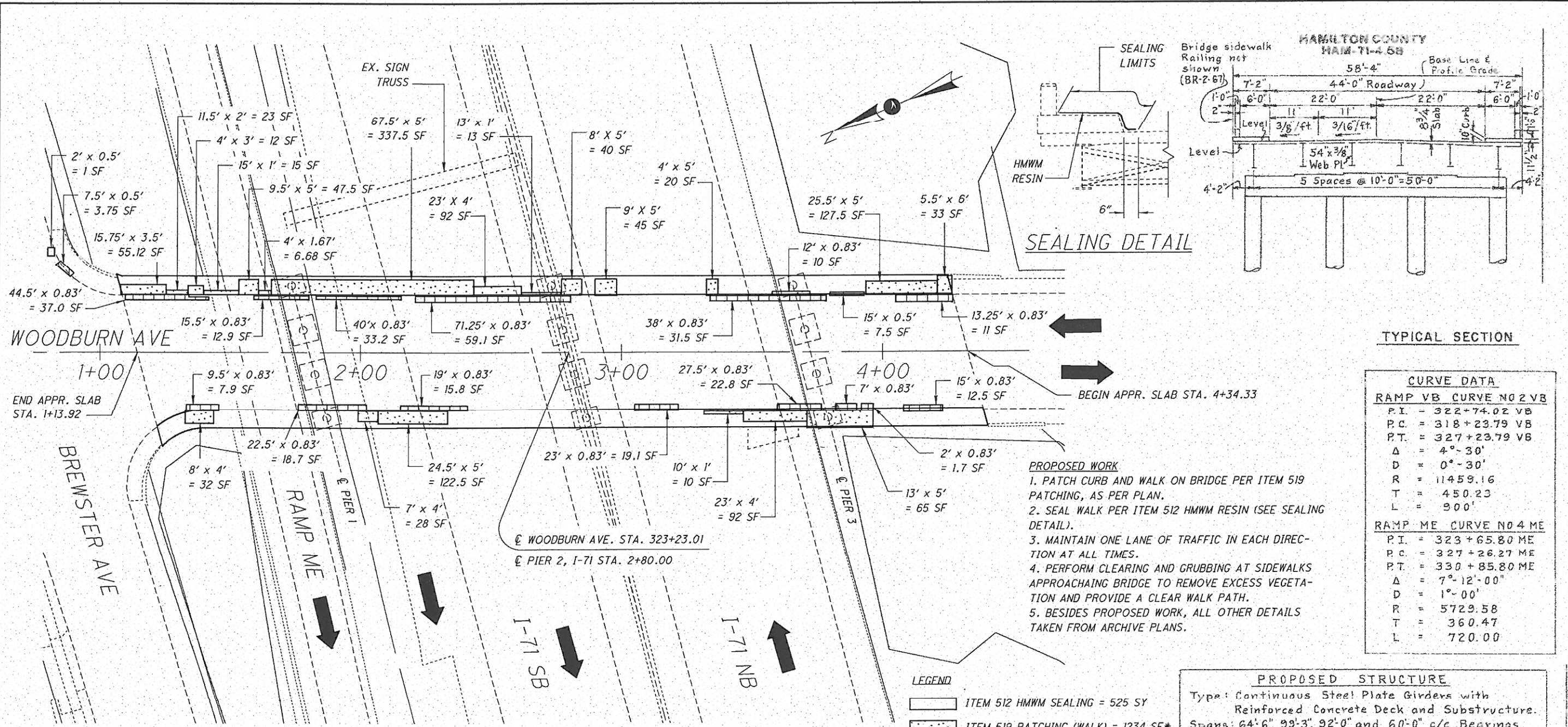


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**CURVE DATA**

RAMP VB	CURVE NO 2 VB
P.I.	= 322+74.02 VB
P.C.	= 318+23.79 VB
P.T.	= 327+23.79 VB
Δ	= 4°-30'
D	= 0°-30'
R	= 11459.16
T	= 450.23
L	= 900'

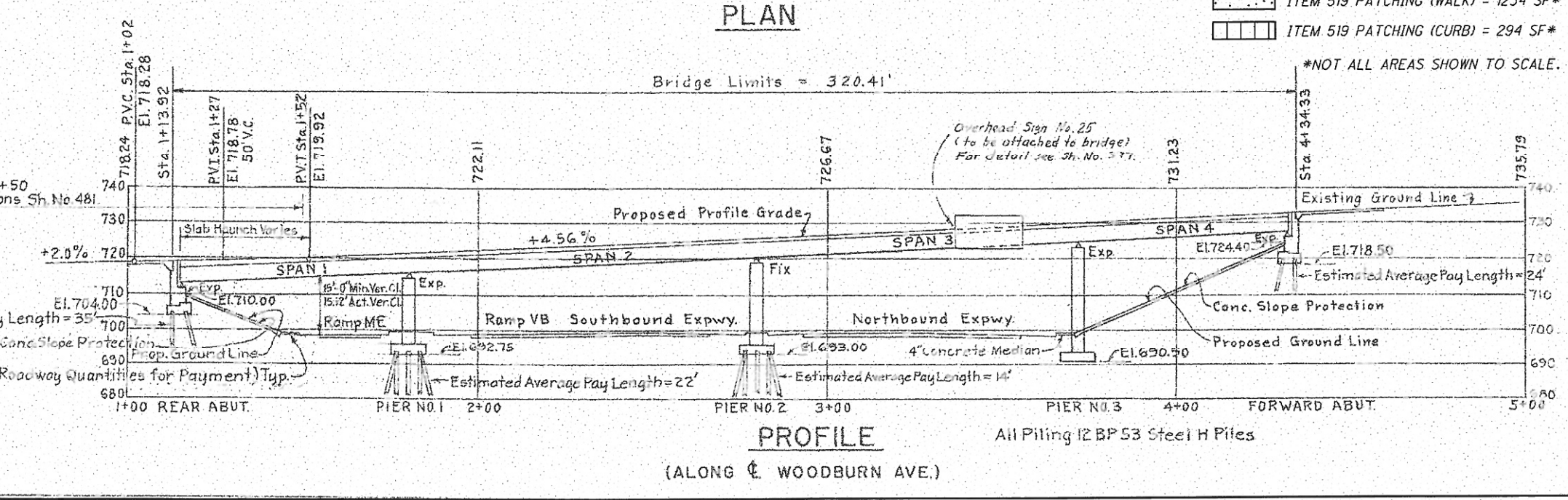
  

RAMP ME	CURVE NO 4 ME
P.I.	= 323+65.80 ME
P.C.	= 327+26.27 ME
P.T.	= 330+85.80 ME
Δ	= 7°-12'-00"
D	= 1°-00'
R	= 5729.58
T	= 360.47
L	= 720.00

- LEGEND**
- ITEM 512 HMWM SEALING = 525 SY
  - ITEM 519 PATCHING (WALK) = 1234 SF\*
  - ITEM 519 PATCHING (CURB) = 294 SF\*

**PROPOSED STRUCTURE**

Type: Continuous Steel Plate Girders with Reinforced Concrete Deck and Substructure.  
Spans: 64'-6", 99'-3", 92'-0" and 60'-0" c/c Bearings along Prop. Woodburn Ave.  
Roadway: 44'-0" f/f Curbs with 6'-0" Sidewalks.  
Skew: 15° RF  
Live Loading: HS 20-44  
Wearing Surface: 1" Monolithic Concrete  
Approach Slabs: AS-1-67 (See Plan for Rear Abut. 25'-0" Long Forward Abut.)  
Alignment: Tangent



For Bench Marks see Sheet No. 54  
Traffic Count, 1986 ADT = 5800 (Both Directions)  
Abutments and Piers are parallel.

H & E Sh. No. 34-1

HAZELT & ENOAL  
CONSULTING ENGINEERS  
CINCINNATI, OHIO

**SITE PLAN**  
BRIDGE No. HAM-71-0483  
WOODBURN AVE.

H&E BRIDGE No. 34

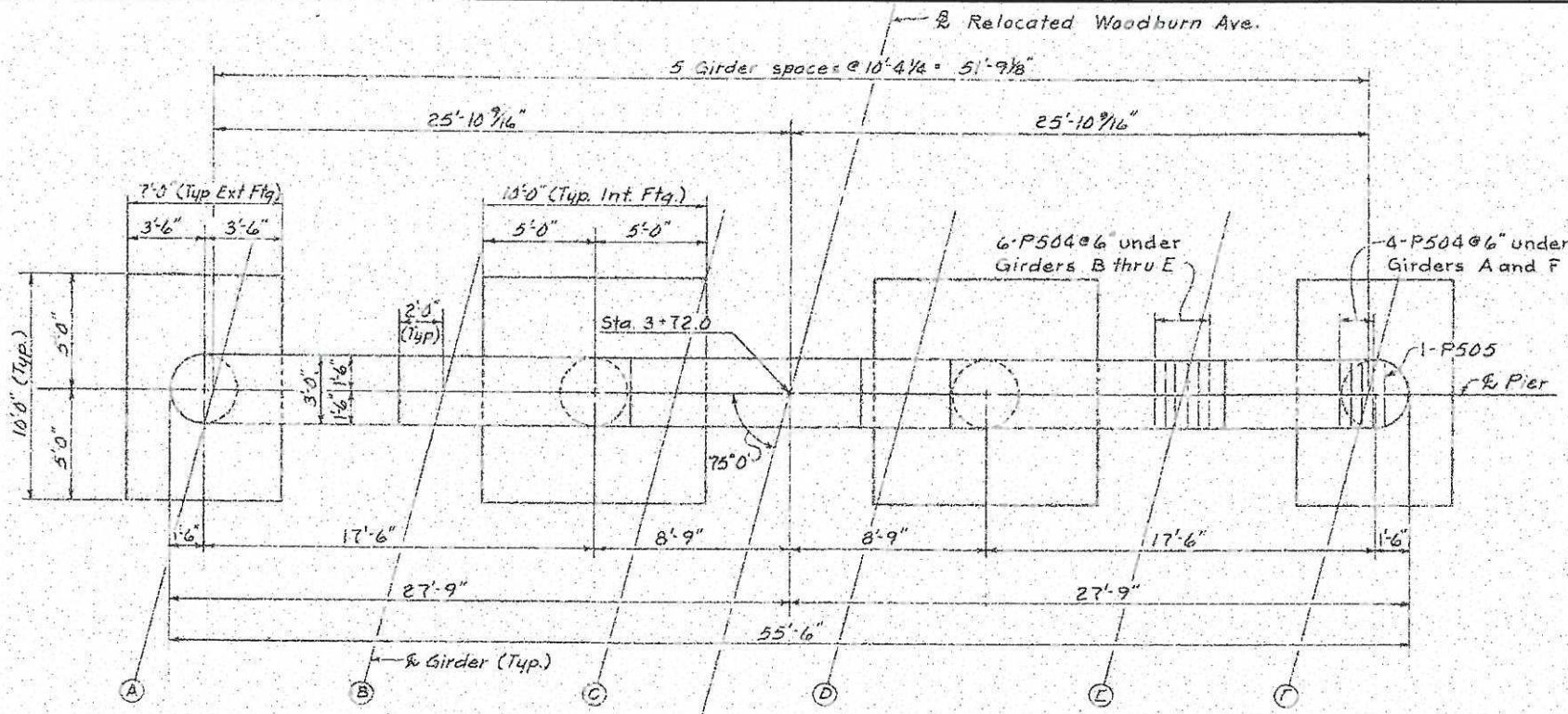
DESIGNED	DRAWN	REVIEWED	DATE
P.J.L.	P.J.L.	CAH	
CHECKED	CAH	STRUCTURE FILE NUMBER	5114600

DESIGN AGENCY  
STATE OF OHIO  
DEPT. OF TRANSPORTATION  
DISTRICT 8 BRIDGE DEPT.

BRIDGE GENERAL PLAN  
BRIDGE NO. - HAM-71-0505  
WOODBURN AVE. OVER I-71

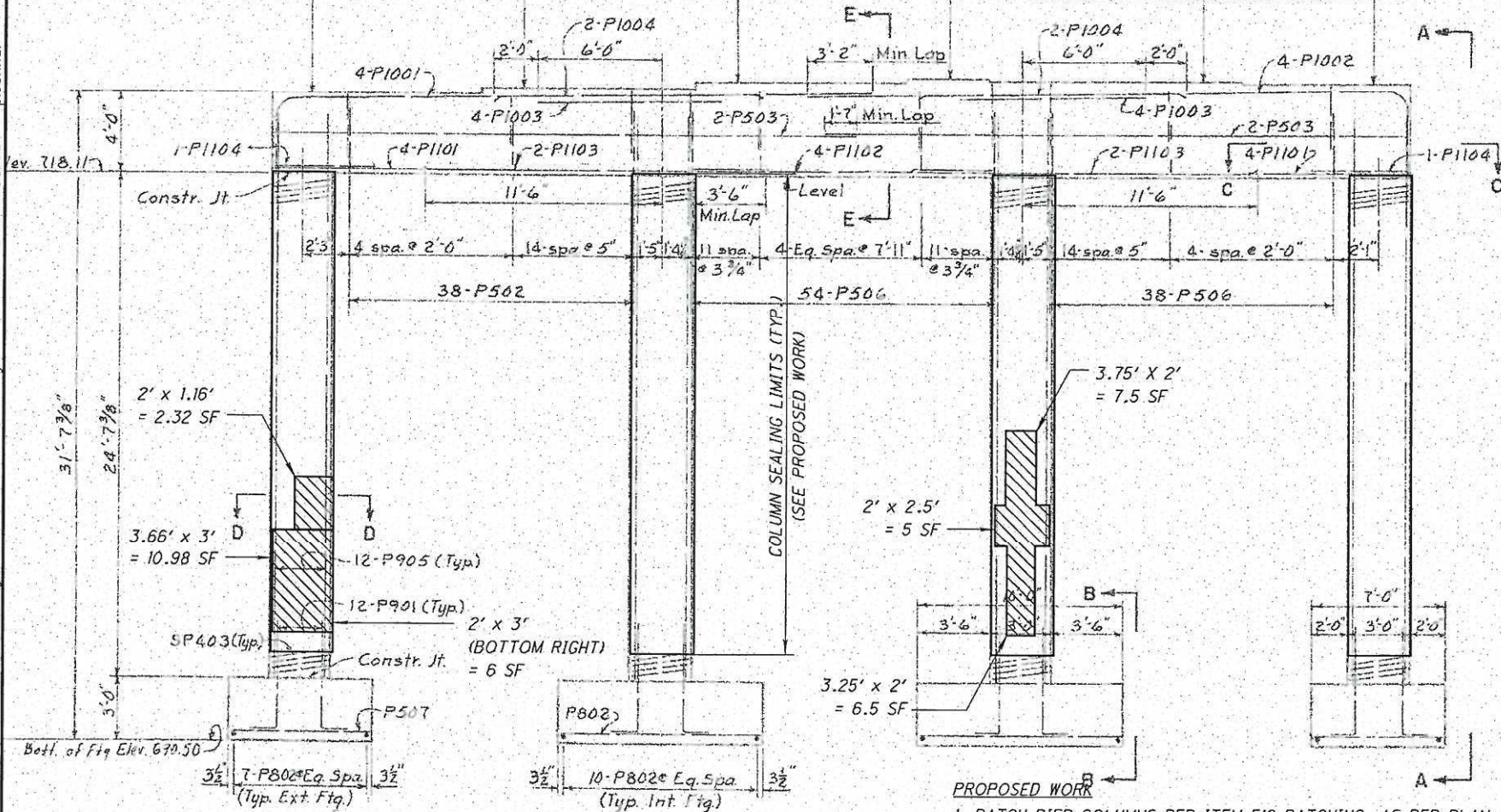
HAM-71-1.97  
PID No. 82975

01/02



PLAN

Bridge Seat Elev. 722.11 722.45 722.79 722.91 722.82 722.72



ELEVATION

- ITEM 519 PATCHING (COLUMNS) = 38 SF
- ITEM 512 EPOXY SEALING = 100 SY

- PROPOSED WORK**
1. PATCH PIER COLUMNS PER ITEM 519 PATCHING, AS PER PLAN.
  2. SEAL ENTIRE SURFACE AREA OF COLUMNS FROM BOTTOM OF PIER CAP TO TOP OF CONCRETE SLOPE PROTECTION.
  3. MAINTAIN TRAFFIC ON I-71 PER THE LANE VALUE CONTRACT TABLE (SEE MAINTENANCE OF TRAFFIC GENERAL NOTES).

**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 FORM 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, 105.02, AND 513.04.

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 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN**

THIS ITEM IS TO BE USED TO PATCH AREAS OF DETERIORATED CONCRETE OVER 3" THICK. THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED:

4282 SF TOTAL FOR WALK ON BRIDGE DECK AND PIER NO. 3 COLUMNS.

AREAS OF DETERIORATED CONCRETE TO BE REPAIRED SHALL BE MARKED BY THE PROJECT ENGINEER. MATERIALS SHOULD NOT BE ORDERED UNTIL THE AREAS FOR REPAIR HAVE BEEN MARKED.

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 512 - SEALING OF CONCRETE SURFACES, (EPOXY-URETHANE)**

SEAL PIER NO. 3 COLUMNS AS DETAILED IN THE PLANS WITH EPOXY-URETHANE. THE COLOR SHALL BE FEDERAL COLOR NO. 16515.

**EXISTING PLANS**

EXISTING PLANS ENTITLED HAM-71-4.58, CITY OF CINCINNATI, CITY OF NORWOOD, HAMILTON COUNTY, MAY BE INSPECTED IN THE ODOT DISTRICT 8 OFFICE IN LEBANON, OHIO.

**CLEARING AND GRUBBING, AS PER PLAN**

PERFORM CLEARING AND GRUBBING AT SIDEWALKS APPROACHING BRIDGE TO REMOVE EXCESS VEGETATION AND PROVIDE A CLEAR WALK PATH. ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES FOR ITEM 201, CLEARING AND GRUBBING, AS PER PLAN. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING, AS PER PLAN.

ESTIMATED QUANTITIES							
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SUPER	PIERS	SHEET
201	11001	LS		CLEARING AND GRUBBING, AS PER PLAN			2
512	10100	100	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		100	2
512	10300	525	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	525		1
519	11101	1566	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	1528	38	1-2



*Christopher A. Howard*  
For SHEETS  
292A & 292B

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DESIGN AGENCY: STATE OF OHIO DEPT. OF TRANSPORTATION DISTRICT 8 BRIDGE DEPT.  
 DATE: \_\_\_\_\_  
 REVISED: \_\_\_\_\_  
 DRAWN: \_\_\_\_\_  
 DESIGNED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 PIER NO. 3 DETAILS AND ESTIMATED QUANTITIES  
 BRIDGE NO. HAM-71-0505  
 WOODBURN AVE. OVER I-71  
 HAM-71-1.97  
 PID No. 82975  
 02/02  
 292B  
 292