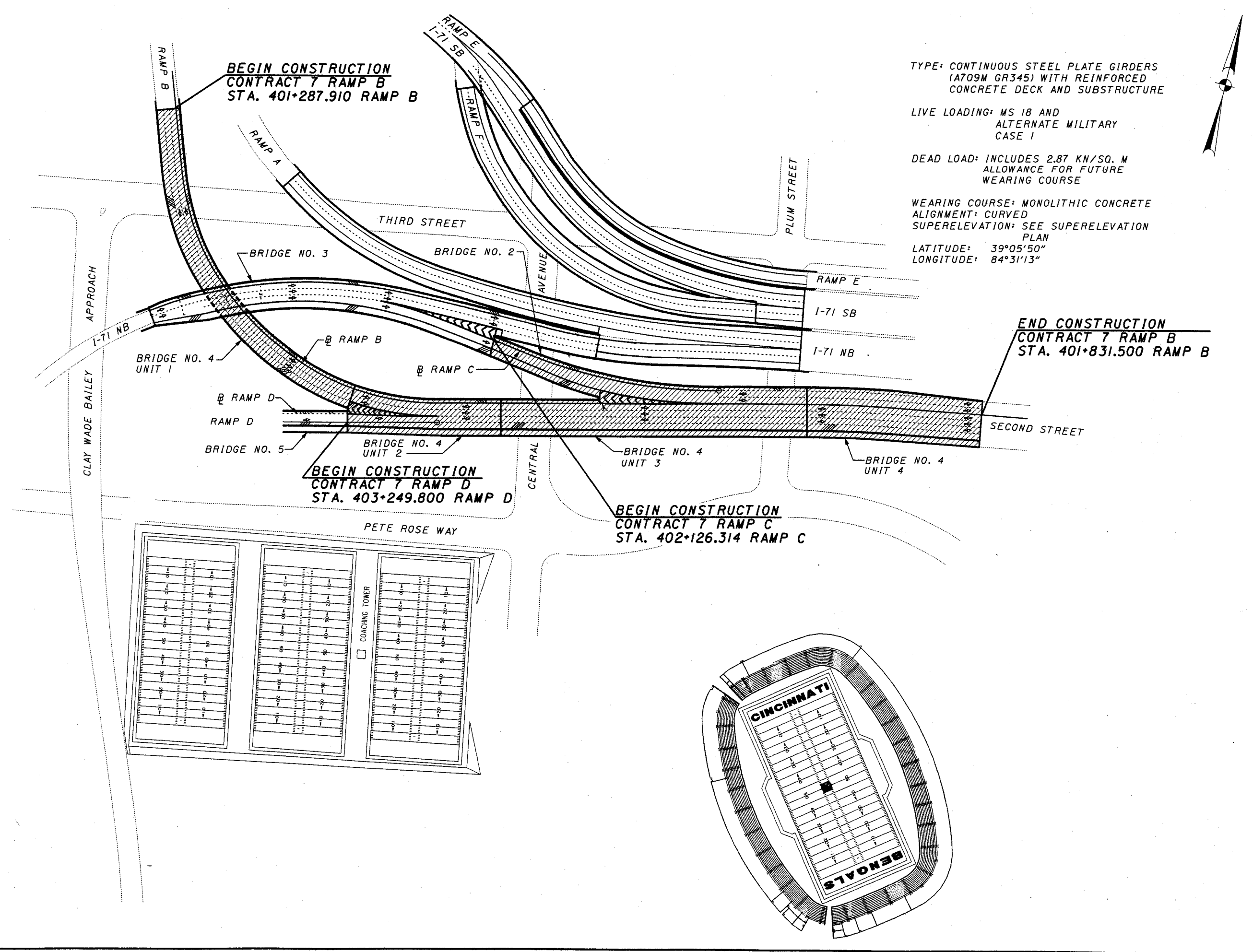


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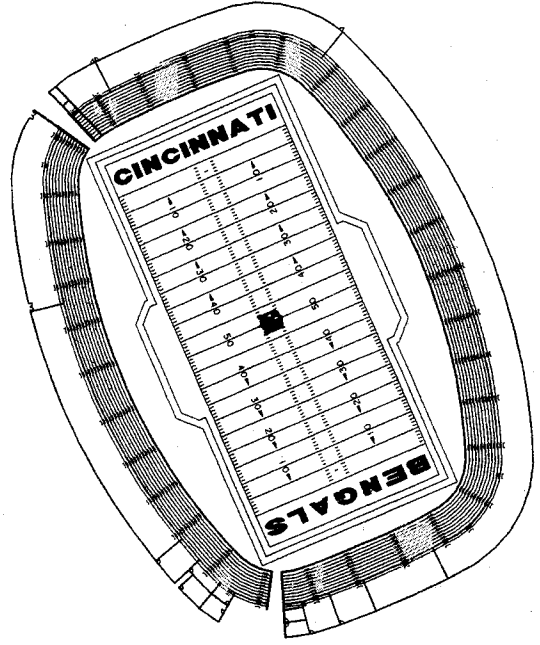
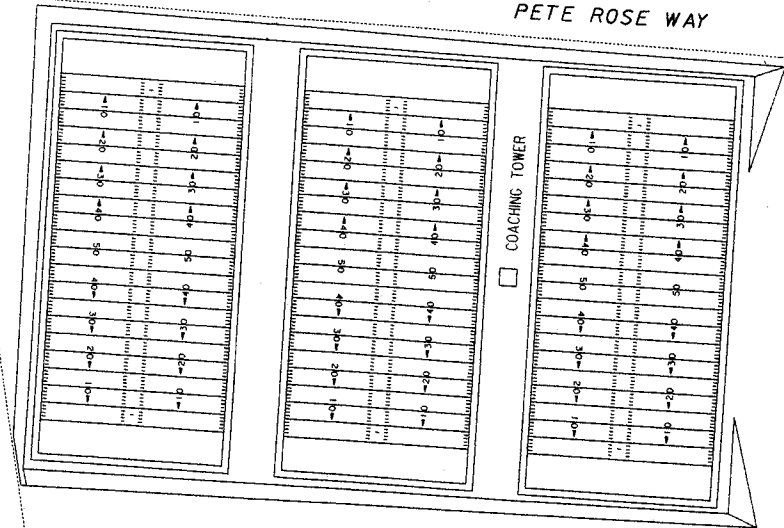
TYPE: CONTINUOUS STEEL PLATE GIRDERS (A709M GR345) WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE

LIVE LOADING: MS 18 AND ALTERNATE MILITARY CASE I

DEAD LOAD: INCLUDES 2.87 KN/SQ. M ALLOWANCE FOR FUTURE WEARING COURSE

WEARING COURSE: MONOLITHIC CONCRETE ALIGNMENT: CURVED SUPERELEVATION: SEE SUPERELEVATION PLAN

LATITUDE: 39°05'50" LONGITUDE: 84°31'13"



DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

DATE REVIEWED
DATE STRUCTURE FILE NUMBER
1/10 7419

DESIGNED
DRAWN
CHECKED
E.B. CBS

STRUCTURAL GENERAL PLAN
BRIDGES NO. 2 & 4
RAMPS B, C & D

CITY OF CINCINNATI
CONTRACT No. 75X5753

1/18
53
232

REFERENCE:

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:
 AS-1-81M DATED 10/25/94 (SHEETS 1, 2 & 3)
 BR-1M DATED 12/15/94 (SHEET 2)
 EXJ-4-87M DATED 2/20/95 (SHEETS 1, 2, 3, 4 & 5)
 TC-9-10 M DATED 2/1/94
 TC-21-20 M DATED 12/10/96
 TC-22-10 M DATED 3/13/97
 TC-22-20 M DATED 2/1/94
 VPF-1-90M DATED 3/20/95 (SHEETS 1, 2, 5, 6 & 7)

THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS APPLY TO THIS PROJECT:

SUPPLEMENTAL SPECIFICATION: PAINTING, SYSTEM IZEU
 MASS CONCRETE

DESIGN SPECIFICATIONS:

THIS PROJECT IS DESIGNED IN METRIC SI UNITS. ALL DIMENSIONS ARE IN MILLIMETERS (mm), AND ALL ELEVATIONS ARE IN METERS (m), UNLESS NOTED OTHERWISE.

THIS STRUCTURE CONFORMS TO:

"STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, SIXTEENTH EDITION, 1996; 1997 AND 1998 INTERIM SPECIFICATIONS.

ANSI/AASHTO/AWS "BRIDGE WELDING CODE".

STATE OF OHIO "BRIDGE DESIGN MANUAL".

AASHTO "GUIDE SPECIFICATIONS FOR HORIZONTALLY CURVED HIGHWAY BRIDGES", 1993 WITH REVISIONS THROUGH 1997

AASHTO "GUIDE SPECIFICATIONS FOR FRACTURE CRITICAL NON-REDUNDANT STEEL BRIDGE MEMBERS", 1978; 1981, 1983, 1984, 1985, 1986 INTERIM SPECIFICATIONS.

THE DECK SLAB IS POURED IN ONE FULL DEPTH POUR BETWEEN TRANSVERSE CONSTRUCTION JOINTS. THE OVERALL DECK THICKNESS INCLUDES 25 mm OF MONOLITHIC WEARING SURFACE, WHICH WAS NOT CONSIDERED IN THE STRUCTURAL DESIGN OF THE DECK SLAB OR AS A PART OF THE COMPOSITE SECTION IN POSITIVE MOMENT REGIONS. THE WEIGHT OF THE MONOLITHIC WEARING SURFACE IS INCLUDED IN DEAD WEIGHT OF DECK SLAB.

DECK PROTECTION METHOD SHALL BE PROVIDED USING EPOXY COATED REINFORCING STEEL, HIGH PERFORMANCE CONCRETE DECK, SEALING OF CONCRETE SURFACES, AND A 65 mm CONCRETE COVER.

THE SUPERSTRUCTURE WAS DESIGNED AS A COMPOSITE SECTION. IN THE POSITIVE MOMENT REGIONS THE COMPOSITE SECTION COMPRISES THE GIRDER AND THE "EFFECTIVE" PART OF CONCRETE DECK SLAB. IN NEGATIVE MOMENT REGIONS THE COMPOSITE SECTION COMPRISES THE GIRDER AND THE LONGITUDINAL REINFORCEMENT OF THE CONCRETE DECK SLAB. THE STEEL GIRDERS WERE ASSUMED TO BE UNSHORED DURING CONCRETE DECK PLACEMENT OPERATIONS.

DESIGN LOADINGS:

DESIGN METHOD: LOAD FACTOR DESIGN FOR ALL STRUCTURAL STEEL AND REINFORCED CONCRETE COMPONENTS, EXCEPT FOR BEARINGS, WHICH ARE DESIGNED USING SERVICE LOAD METHOD.

DEAD LOADS:

UNIT WEIGHT OF REINFORCED CONCRETE - 23.6 kN/m³
 FUTURE WEARING SURFACE - 1.43 kN/m²
 STANDARD VEHICLE BARRIER - 7.62 kN/m
 OVERHEAD SIGNS, LIGHTING ETC. - 1.6 kN/m
 ATTACHED UTILITIES - 3.3 kN/m
 STAY-IN-PLACE FORMS - 0.72 kN/m²

LIVE LOAD:

STEEL SUPERSTRUCTURES: LOAD FACTOR DESIGN USING AASHTO MS18 OR AASHTO ALTERNATE MILITARY LOADING
 REINFORCED CONCRETE SUBSTRUCTURES: LOAD FACTOR DESIGN USING AASHTO MS18 OR AASHTO ALTERNATE MILITARY LOADING

CENTRIFUGAL FORCES:

CENTRIFUGAL FORCES WERE CALCULATED IN ACCORDANCE WITH AASHTO REQUIREMENTS FOR THE DESIGN SPEEDS LISTED IN THE FWW DESIGN CRITERIA

THERMAL FORCES:

ANTICIPATED THERMAL MOVEMENTS AND FORCES WERE CALCULATED BASED ON THE FOLLOWING:
 DESIGN MEAN TEMPERATURE - 20°C
 TEMPERATURE RANGE - 65°C FOR STEEL AND 44°C FOR CONCRETE
 COEFFICIENT OF LINEAR EXPANSION - 0.00001 PER DEGREE C

SEISMIC FORCES:

DESIGN DETAILS IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SIXTEENTH EDITION, SEISMIC PERFORMANCE CATEGORY A AND ODOT BDM, 3.1.2.1.

FATIGUE - CASE 1

LOADING COMBINATIONS:

LOAD FACTORS, ALLOWABLE OVERSTRESS AND LOADING COMBINATIONS ARE IN ACCORDANCE WITH AASHTO TABLE 3.22.1A

TOUGHNESS TESTS:

CHARPY V-NOTCH IMPACT TEST SHALL BE COMPLETED IN ACCORDANCE WITH AASHTO 10.3.3 FOR TEMPERATURE ZONE 2. ALL COMPONENTS REQUIRING SUCH TESTING ARE IDENTIFIED ON PLANS BY PLACING LETTERS "CVN" AFTER THE COMPONENT DESCRIPTION.

STRUCTURAL STEEL:

ASTM A709M, GR.345 FOR MAIN MEMBERS, BEARING DEVICES, FIELD SPLICES, DIAPHRAGMS AND MISCELLANEOUS DETAILS.

FRACTURE CRITICAL STEEL MEMBERS AND COMPONENTS (FCM) ARE IDENTIFIED ON THE PLANS. ALL MEMBERS, SO IDENTIFIED, MUST BE SUBJECTED TO THE FRACTURE CONTROL PLAN PER AASHTO GUIDE SPECIFICATION FOR FRACTURE CRITICAL NON-REDUNDANT STEEL BRIDGE MEMBERS, AND WELDING REQUIREMENTS OF CMS 513.17.

ALL BOLTED CONNECTIONS SHALL BE MADE WITH M25 ROUND HIGH STRENGTH BOLTS CONFORMING TO ASTM A-325M, TYPE 1, UNLESS OTHERWISE NOTED ON PLANS. FAYING SURFACES OF CONNECTED PARTS SHALL MEET THE AASHTO CLASS A SURFACE PREPARATION REQUIREMENTS FOR SLIP CRITICAL CONNECTIONS. ALL BOLTS ASSUMED TO HAVE THEIR THREADS OUTSIDE OF THE SHEAR PLANE.

SHEAR STUDS SHALL BE AUTOMATIC WELDED STUDS. THE USE OF CHANNELS IS NOT PERMITTED. UNLESS OTHERWISE NOTED, THE STANDARD STUD DIAMETER IS 22 mm.

ALL STRUCTURAL WELDING SHALL CONFORM TO ANSI/AASHTO/AWS BRIDGE WELDING CODE D1.5-95. THE FOLLOWING WELDING PROCESSES ARE PERMITTED: SHIELDED METAL ARC WELDING (SMAW); FLUX CORED ARC WELDING (FCAW); GAS METAL ARC WELDING (GMAW); SUBMERGED ARC WELDING (SAW). NO FIELD WELDING, UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED BY THE ENGINEER, WILL BE PERMITTED

ALL FABRICATED STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED FOR A DESIGN MEAN TEMPERATURE OF 20°C.

PAINTING:

ALL STEEL IS TO BE PAINTED IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION SHOP PAINTING AND FIELD TOUCH-UP OF NEW STEEL, SYSTEM IZEU AND PROJECT SPECIAL PROVISIONS. ALL PAINTING IS TO BE DONE IN THE SHOP, EXCEPT AT FIELD BOLTED FAYING SURFACES WHICH SHALL BE ONLY SHOP PRIMED.

AREAS OF THE SHOP APPLIED PAINT SYSTEM WHICH WERE DAMAGED DURING CONSTRUCTION, AND HIGH STRENGTH BOLTED CONNECTION AREAS THAT WERE ONLY PRIME PAINTED, SHALL BE PROPERLY CLEANED AND PAINTED. AFTER COMPLETION OF ALL TIGHTENING OPERATIONS, FASTENERS SHALL BE SOLVENT CLEANED AND FIELD PAINTED.

THE CONTRACTOR IS TO PROVIDE SHOP DRAWINGS ON THE BRIDGE STEEL PAINT COLOR. ONCE WRITTEN APPROVAL IS PROVIDED FOR THE SHOP DRAWING, THE CONTRACTOR IS TO PROVIDE A 1219 mm x 2438 mm FULL COLOR MOCK UP PANEL IN THE FIELD (AT A LOCATION TO BE DETERMINED) FOR REVIEW. THE CONTRACTOR IS NOT TO PROCEED WITH THE FINAL BRIDGE PAINTING WITHOUT WRITTEN APPROVAL ON THE COLOR PANEL MOCK UP. THE COLOR SELECTED FOR BRIDGE 2 IS FEDERAL COLOR #35231 AND BRIDGE 4 IS FEDERAL COLOR #35193. THIS COLOR SELECTION IS FOR BIDDING PURPOSES AND IS SUBJECT TO CHANGE AFTER REVIEW OF THE MOCK UP PANEL.

CAMBER DIAGRAM:

A CAMBER DIAGRAM IS SHOWN IN THE DRAWINGS, SHOWING THE CAMBER AT EACH 1/10 OF A SPAN, AND ALSO AT POINTS OF DEAD LOAD CONTRAFLEXURE, AND AT THE CENTERLINE OF FIELD SPLICE(S). THIS CAMBER DIAGRAM ACCOUNTS FOR GIRDER CAMBER COMPONENTS DUE TO SELF WEIGHT, NON COMPOSITE DEAD LOAD (DECK AND HAUNCHES), COMPOSITE DEAD LOAD (BARRIERS, RAILINGS, UTILITIES, INSPECTION WALKWAYS, ETC.) AND VERTICAL CURVATURE OF THE ROADWAY ABOVE CENTERLINE OF EACH GIRDER.

CLEARANCE:

A MINIMUM VERTICAL CLEARANCE BETWEEN THE RIDING SURFACE OF ROADWAY BELOW AND THE LOWEST POINT OF THE STRUCTURE ABOVE, IF IT ENCROACHES ONTO TRAFFIC LANES OF ROADWAY BELOW, MUST BE 4.9 m FOR MAINLINE ROADWAYS, RAMPS AND LOCAL STREETS.

CONCRETE:

MINIMUM 28-DAY COMPRESSIVE STRENGTH (f'c) SHALL BE AS FOLLOWS:

CONCRETE CLASS S - COMPRESSIVE STRENGTH 31.0 MPa TO BE USED FOR BACK WALLS OF ABUTMENTS, DECK SLABS AND BARRIERS.

CONCRETE CLASS C - COMPRESSIVE STRENGTH 27.5 MPa TO BE USED FOR ALL FOUNDATIONS, ABUTMENTS, ABUTMENT WING WALLS AND MISCELLANEOUS CONCRETE DETAILS.

CONSTRUCTION JOINTS IDENTIFIED ON THE DRAWINGS AS "ROUGHENED" SHALL BE CLEAN AND SHALL BE ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY 6 mm.

FOR PROPER DECK FORMWORK INSTALLATION AND CONCRETE PLACEMENT - SEE TABLES OF ELEVATIONS AT THE TOP OF THE CONCRETE DECK (SCREED ELEVATIONS) THAT ARE REQUIRED BEFORE THE CONCRETE IS PLACED.

THE EXTENT OF SEALING OF CONCRETE SURFACES (SUPERSTRUCTURE AND SUBSTRUCTURE) IS SHOWN ON THE DRAWINGS.

ALL EXPOSED EDGES OF DECK SLAB AND PARAPETS SHALL BE CHAMFERED 20x20 mm, UNLESS OTHERWISE NOTED. ALL EXPOSED EDGES OF SUBSTRUCTURE CONCRETE SHALL BE CHAMFERED 25x25 mm, UNLESS OTHERWISE NOTED.

DECK POURING SEQUENCE:

POURS SHALL BE MADE IN THE FOLLOWING SEQUENCE.

1. END SPANS
2. INTERIOR SPANS
3. INTERIOR SUPPORTS

END SPAN POURS SHALL PROCEED IN A DIRECTION FROM THE CONSTRUCTION JOINT TOWARDS THE EXPANSION JOINT. POURS WITH THE SAME NUMERICAL DESIGNATION MAY BE MADE SIMULTANEOUSLY. BARRIER WALL POURS SHALL OCCUR IN THE SAME CONSTRUCTION SEQUENCE AS THE DECK. NO PORTION OF THE BARRIER WALL MAY BE POURED UNTIL THE ENTIRE DECK HAS BEEN PLACED FOR THAT CONSTRUCTION SEQUENCE.

REINFORCING STEEL:

REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615M, A616M OR A617M, GRADE 420 WITH MINIMUM YIELD STRENGTH 420MPa

ALL REINFORCING STEEL SHALL BE EPOXY COATED, INCLUDING APPROACH SLABS.

MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE AS SHOWN ON THE DRAWINGS. CONCRETE COVERS SHOWN ON THE DRAWINGS DO NOT INCLUDE PLACEMENT AND FABRICATION TOLERANCES, UNLESS SHOWN AS A "MINIMUM COVER".

REINFORCING BAR SPLICE LENGTHS SHALL CONFORM TO THE MINIMUM LENGTHS SPECIFIED BY 509.08 OF THE C.M.S. UNLESS OTHERWISE NOTED ON THE PLANS.

MECHANICAL COUPLERS MAY BE USED IN PLACE OF LAPS AT NO ADDED COST TO THE OWNER. MECHANICAL COUPLERS MAY BE USED TO REDUCE THE HEIGHT OF COLUMN BARS PROJECTING FROM FOOTINGS AT NO ADDED COST TO THE OWNER. IF MECHANICAL COUPLERS ARE USED CERTIFICATION AND/OR TEST RESULTS FOR THE PROPOSED COUPLER SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

UTILITY LINES:

ALL EXPENSE INVOLVED IN RELOCATION OF THE AFFECTED UTILITY LINES SHALL BE BORNE BY THE UTILITY. THE CONTRACTOR AND UTILITY ARE TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

EMBANKMENT CONSTRUCTION: (BY OTHERS)**FRICTION PILES (NOT DRIVEN TO BEDROCK):**

THE ULTIMATE PILE CAPACITY IS 1512 kN PER PILE FOR THE ABUTMENT AND PIER PILES.

PILE TESTING SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIAL PROVISIONS.

ANCHOR BOLTS AND DOWEL HOLES:

ANCHOR BOLTS SHALL BE GALVANIZED ACCORDING TO 711.02. INSTALLATION OF ANCHOR BOLTS SHALL BE PER 510. DOWEL HOLES AND ANCHOR RODS SHALL BE INCLUDED IN ITEM 516 FOR PAYMENT.

DOWEL HOLES SHALL INCLUDE THE DRILLING OF HOLES INTO CONCRETE AND THE FURNISHING AND PLACING OF GROUT INTO HOLES. NONSHRINKING EPOXY GROUT SHALL BE USED IN ACCORDANCE WITH CMS 705.20. ANCHORING SHALL CONFORM CMS 705.20.

ABUTMENT DRAINAGE: (BY OTHERS)**CONCRETE PARAPETS:**

AS SOON AS A CONCRETE SAW CAN BE OPERATED WITHOUT DAMAGING THE FRESHLY PLACED CONCRETE, 25 mm DEEP CONTROL JOINTS SHALL BE SAWS INTO THE PERIMETER OF THE CONCRETE PARAPET. THE SAW CUT SHALL BE MADE IN THE COMPLETE CIRCUMFERENCE OF THE PARAPET, STARTING AND ENDING AT THE ELEVATION OF THE CONCRETE DECK. THE SAWCUTS SHALL BE PLACED AT A MINIMUM OF 2000 mm AND A MAXIMUM OF 3000 mm CENTERS. THE USE OF AN EDGE GUIDE, FENCE OR JIG IS REQUIRED TO ENSURE THAT THE CUT JOINT IS STRAIGHT, TRUE AND ALIGNED ON ALL FACES OF THE PARAPET. THE JOINT WIDTH SHALL BE THE WIDTH OF THE SAW BLADE, A NOMINAL WIDTH OF 6 mm. THE PERIMETER OF THE DEFLECTION CONTROL JOINT SHALL BE SEALED TO A MINIMUM DEPTH OF 25 mm WITH A CAULKING MATERIAL CONFORMING TO FEDERAL SPECIFICATION TT-5-00227E.

CONCRETE SLOPE PROTECTION: (BY OTHERS)**REINFORCED CONCRETE APPROACH SLAB (T=380 mm): (BY OTHERS)**

6/18/99

6/18/99

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DESIGN AGENCY
 PARSONS BRINCKERHOFF, INC.
 512 ELM STREET, SUITE 2800
 CINCINNATI, OH 45202-2120

DATE
 REVIEWED
 DATE

DRAWN
 MCG
 CHECKED

DESIGNED
 EB
 CHECKED

STRUCTURE FILE NUMBER
 7107419

REVISIONS

GENERAL NOTES

CITY OF CINCINNATI
 CONTRACT No. 75X5753

2/18C

54

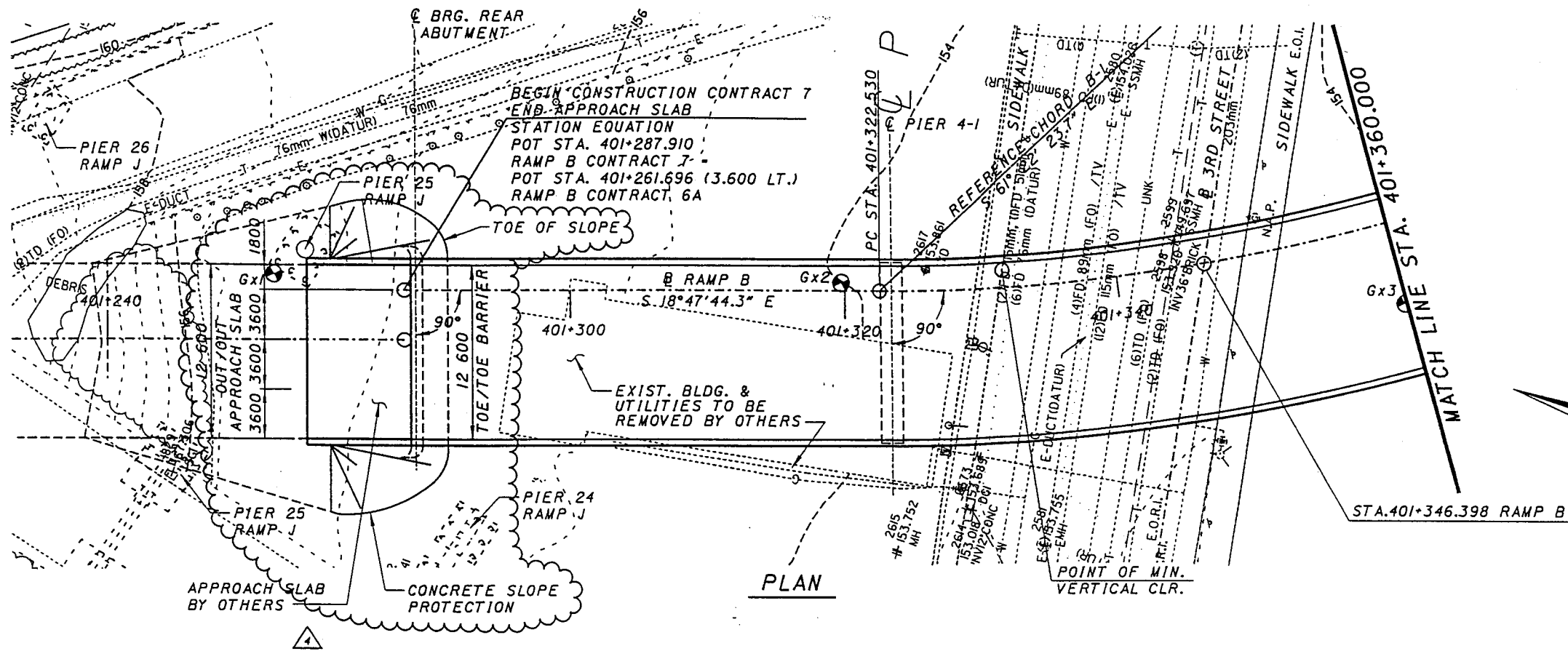
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11/19/99

11/19/99

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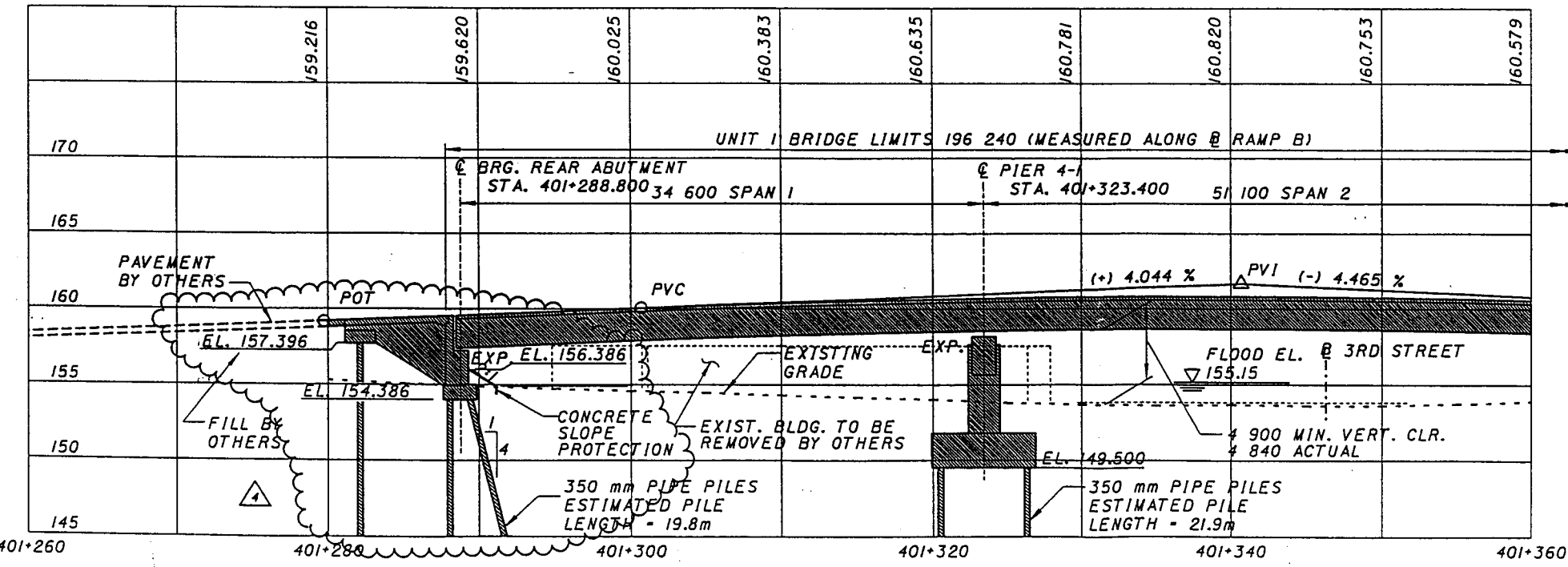
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ADT (2000) -	
ADT (2020) -	
ADTT (2020) -	
SOURCE -	ODOT

BENCH MARK	

CURVE DATA B-1	
P.I. STA.	401+451.165
D	-85° 09' 18.8" (LT)
R	-140.000 m.
T	-128.636 m.
L	-208.073 m.
E	-50.124 m.
P.C. STA.	401+322.530
P.T. STA.	401+530.603

- NOTES:**
1. THE EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
 2. UTILITIES TO REMAIN UNLESS NOTED OTHERWISE.
 3. SEE GEOMETRIC LAYOUT SHEETS FOR VERTICAL ALIGNMENT AND SUPERELEVATION DIAGRAMS.
 4. PIERS AND DECK SECTIONS VARY. SEE PIER DETAIL SHEETS FOR PIER ELEVATIONS. SEE DECK SECTION SHEETS FOR DECK SECTIONS.

⊗ INDICATES SOIL BORING LOCATION
Gx2



PROFILE ALONG @ RAMP B

PROPOSED STRUCTURE (RAMP B UNIT 1)	
TYPE:	4 SPAN CONTINUOUS PLATE GIRDER "A709M (345), PAINTED" WITH COMPOSITE CONCRETE DECK, SUPPORTED BY REINFORCED CONCRETE PIERS (AND REINFORCED CONCRETE ABUTMENTS).
LENGTH OF SPAN:	34 600, 51 100, 58 400, 51 100 MEASURED C/C BEARING ALONG @
ROADWAY WIDTH:	12 600 TOE/TOE BARRIER
DESIGN LOADING:	MS18 WITH ALTERNATE MILITARY LOADING, CASE 1.
SKUEW ANGLE:	RADIAL
SUPER ELEVATION:	VARIES FROM +0.0160 TO +0.0540
WEARING SURFACE:	MONOLITHIC CONCRETE
APPROACH SLAB:	AS-1-BIM (7600 LONG)
ALIGNMENT:	CURVE TO LEFT
LATITUDE:	N39° 06' 16"
LONGITUDE:	W84° 31' 45"

REVISION NO.	DESCRIPTION	DATE	BY

DESIGNED: MY
CHECKED: []
DRAWN: MCG
REVISED: []

REVIEWED: []
DATE: 11-19-99

REAR ABUTMENT REVISIONS

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720

CITY OF CINCINNATI
STA. 401+260.000
STA. 401+360.000

SITE PLAN - 1
BRIDGE NO. 4
GROUP

CITY OF CINCINNATI
CONTRACT NO. 75X5753

3 / 18

55
232

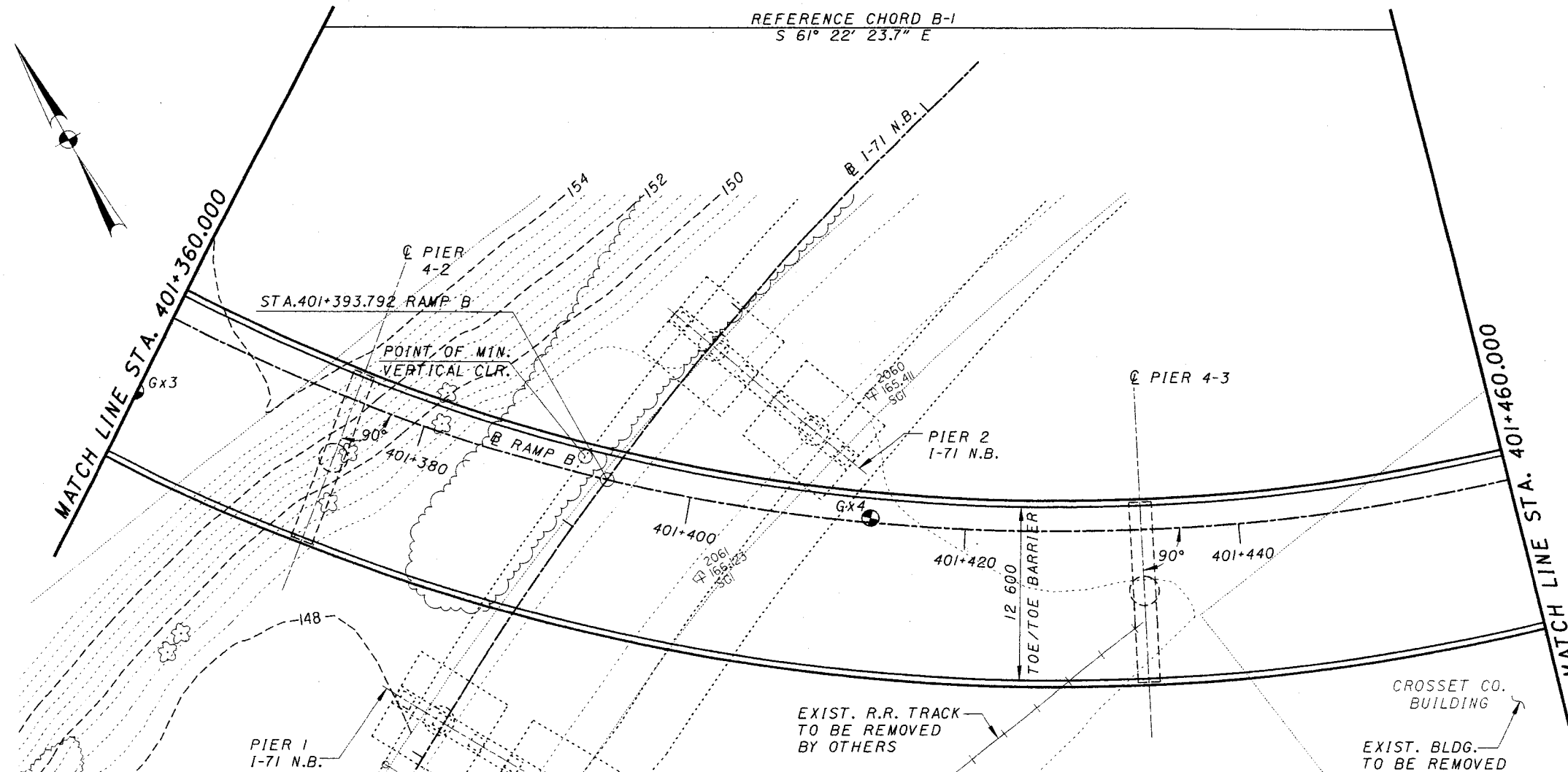
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NOV. 19, 1999

Tue Feb 16 15:29:00 1999

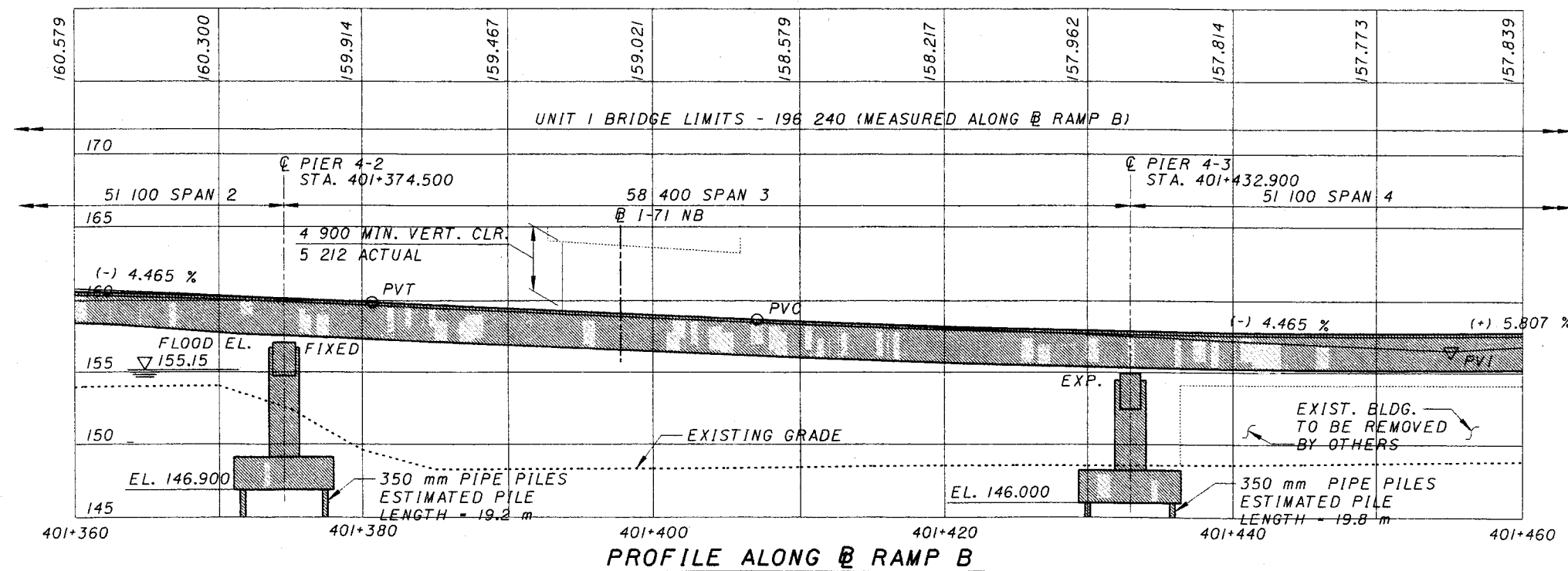
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PLAN



FOR NOTES SEE SHEET 3/180

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

REVIEWED DATE
STRUCTURE FILE NUMBER
3102710

DRAWN MCG
CHECKED

DESIGNED EB
CHECKED

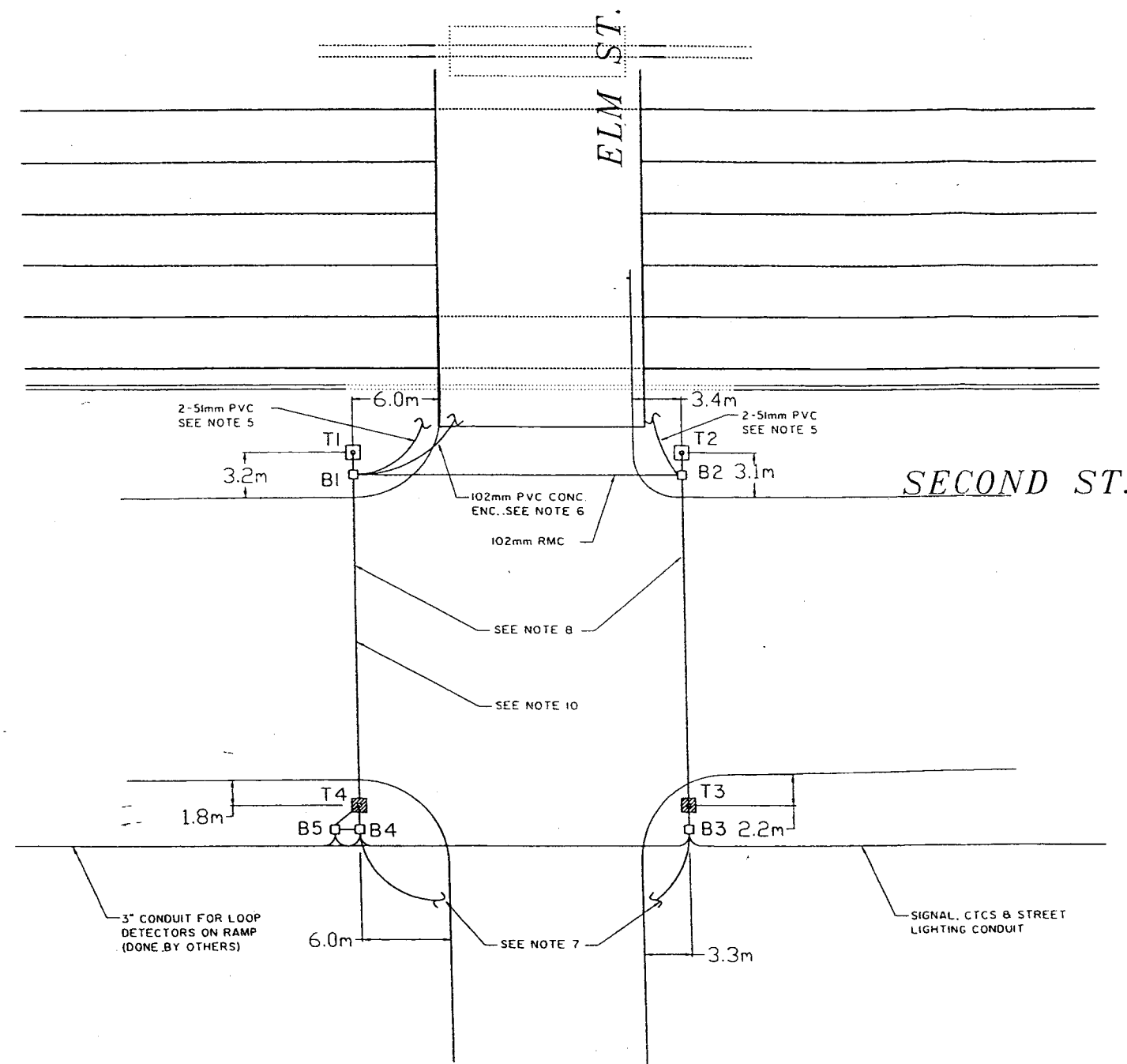
CITY OF CINCINNATI
STA. 401+360.000
STA. 401+460.000

SITE PLAN - 2
BRIDGE NO. 4
D.A.L.D. B

CITY OF CINCINNATI
CONTRACT No. 75X5753

4/18

56
232



ITEM	DESCRIPTION	UNIT	QUANT
1319	ANCHOR BASE FOUNDATION, DESIGN 14	EACH	2
1320	GROUND ROD, 25mm x 3M	EACH	4
1321	TRENCH, 610mm DEEP	M	15
1321	TRENCH, 762mm DEEP	M	25
1321	CONDUIT, 2 EACH, 51mm, PVC	M	10
1321	102mm PVC CONCRETE ENCASED	M	5
1321	CONDUIT, 102mm, RMC	M	20
1321	76mm x 76mm x 51mm RMC	M	2
1321	CONDUIT, 102mm x 102mm x 51mm RMC	M	70
1321	SPECIAL, CONNECT NEW 102mm PVC, CONC. ENCASED, CONDUIT TO EXISTING CONDUIT IN BRIDGE DECK	EACH	1
1321	SPECIAL, CONNECT NEW 2 EACH, 51mm PVC CONDUIT TO EXISTING PAIR IN BRIDGE PARAPET	EACH	2
1322	PULLBOX, 610mm x 610mm, DOWNTOWN SPECIAL, APP.	EACH	2
1322	PULLBOX, CONCRETE, 610mm x 610mm, TYPE C	EACH	3

POLE #	PROJECT POLE #	DESCRIPTION	FOUNDATION #
T1	501	MOLT X - 22" BOLT CIRCLE, 2 1/4" BOLTS	14
T2	502	MOLT X - 22" BOLT CIRCLE, 2 1/4" BOLTS	14
T3	504	MOLT X - 22" BOLT CIRCLE, 2 1/4" BOLTS	DONE BY OTHERS
T4	503	MOLT X - 22" BOLT CIRCLE, 2 1/4" BOLTS	DONE BY OTHERS

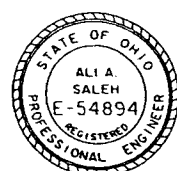
NOTES:

- ALL CONDUIT RUNS IN SIDEWALK SHALL BE 76mm x 76mm x 51mm RMC, UNLESS OTHERWISE NOTED
- ALL CONDUIT RUNS UNDER THE ROADWAY SHALL BE 102mm x 102mm x 51mm RMC, UNLESS OTHERWISE NOTED.
- ALL PULLBOXES SHALL BE 610mm x 610mm, DOWNTOWN SPECIAL, AS PER PLAN, UNLESS OTHERWISE NOTED.
- USE 102mm FLEX PVC CONDUIT BETWEEN PULLBOX AND POLE FOUNDATION, EXCEPT POSTS (51mm).
- CONNECT 2-51mm PVC CONDUIT TO EXISTING CONDUITS IN BRIDGE PARAPET.
- CONNECT 1-102mm PVC, CONCRETE ENCASED CONDUIT TO EXISTING CONDUIT IN BRIDGE DECK
- 76mm x 76mm x 51mm RMC, STUBBED 2' FROM PULLBOX.
- 102mm x 102mm x 51mm RMC CONDUIT ATTACHED TO CEILING OF SECOND STREET STRUCTURE. COSTS FOR ATTACHING CONDUIT TO CEILING SHALL BE INCLUDED IN THE CONDUIT PRICE.
- PULLBOXES B1 AND B2 SHALL BE DOWNTOWN SPECIAL WHITE PULLBOXES B3, B4 AND B5 ARE NORMAL TYPE C BOXES.
- ON ELM, WESTSIDE ONLY, ADD A 76mm RMC, STUBBED 610mm FROM EACH PULLBOX.

LEGEND

- - PROPOSED PULLBOX
- ▣ - PROPOSED SIGNAL POLE FOUNDATION
- ▨ - SIGNAL POLE FOUNDATION DONE BY OTHERS
- - PROPOSED CONDUIT
- ~ - CONNECT TO EXISTING

ADDENDUM NO. 1
SEPTEMBER 22, 1999



REVISION NO. 3
DATE 6/29/99
CHECKED F.JT
DESCRIPTION
DATE 09/21/99
BY JCN
SCALE 1:200

PROPOSED UNDERGROUND
SECOND ST. AND ELM ST.

CITY OF CINCINNATI
CONTRACT No. 75X5753

**PROPOSED STRUCTURE
 RAMP B UNIT 2**

TYPE: 2 SPAN CONTINUOUS PLATE GIRDER "A709M (345), PAINTED" WITH COMPOSITE CONCRETE DECK, SUPPORTED BY REINFORCED CONCRETE PIERS

LENGTH OF SPAN: 35 990, 45 010
 MEASURED C/C
 PIER ALONG B

ROADWAY WIDTH: VARIES, 16 200 TOE/TOE
 BARRIER TYPICAL

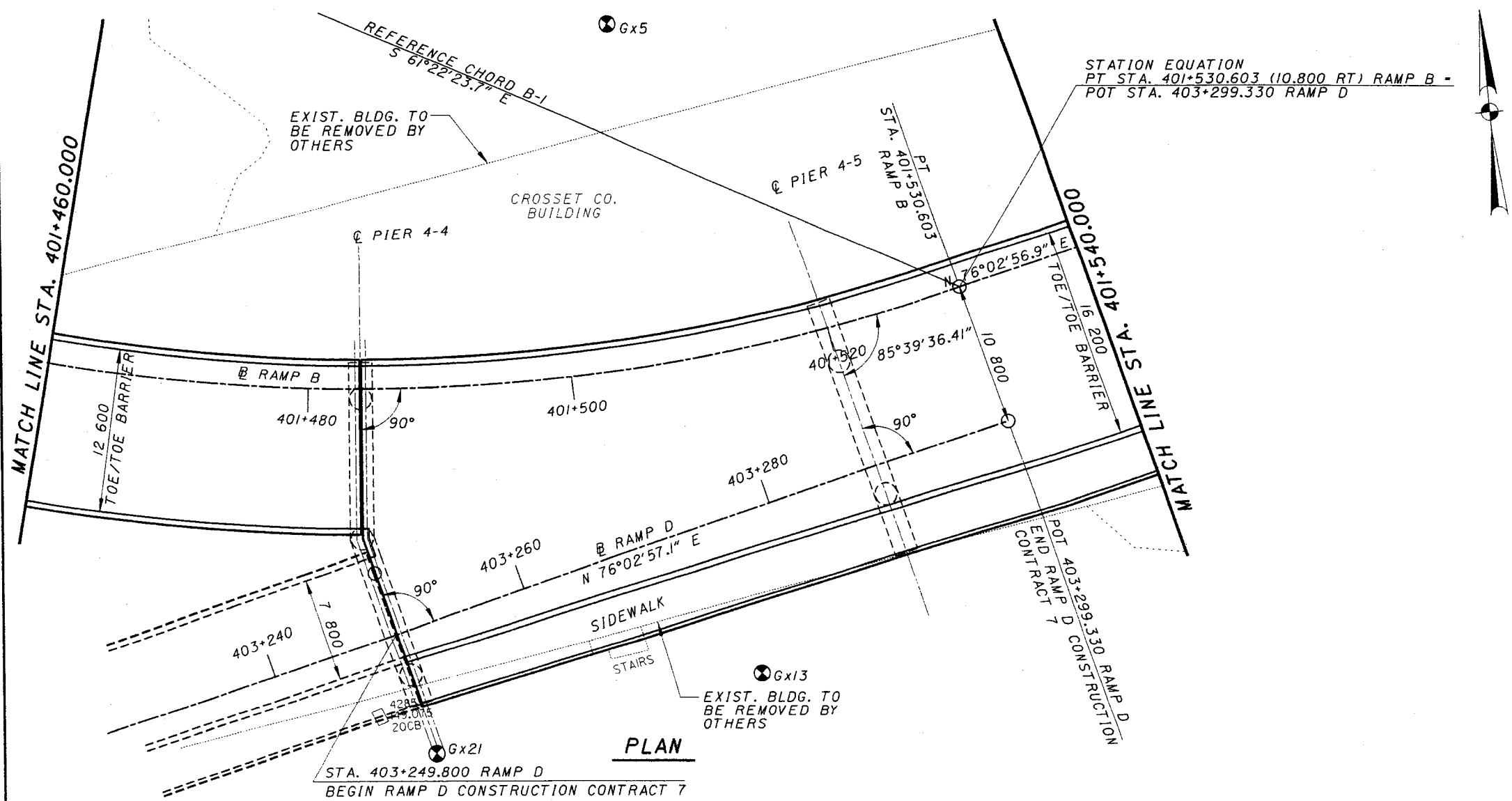
DESIGN LOADING: MS18 WITH ALTERNATE MILITARY LOADING, CASE I.

SKUEW ANGLE: RADIAL
 SUPER ELEVATION: VARIES FROM +0.0540 TO -0.0160

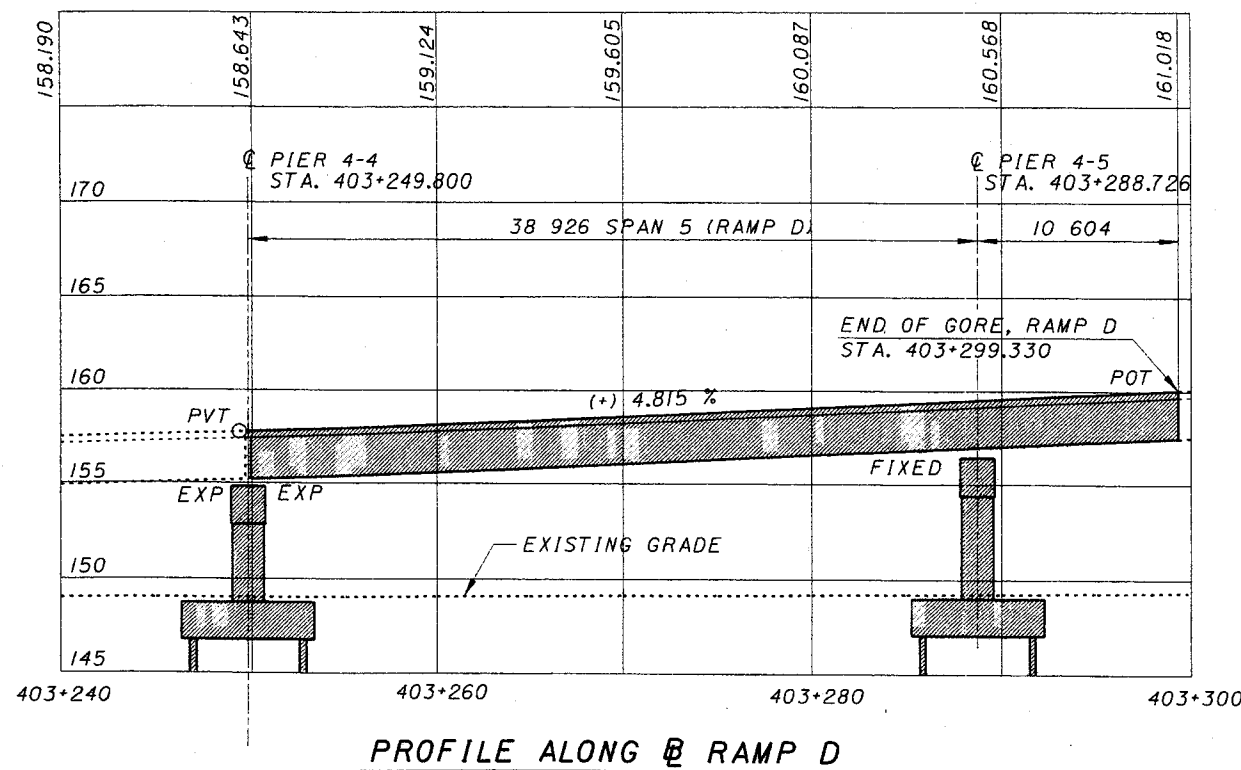
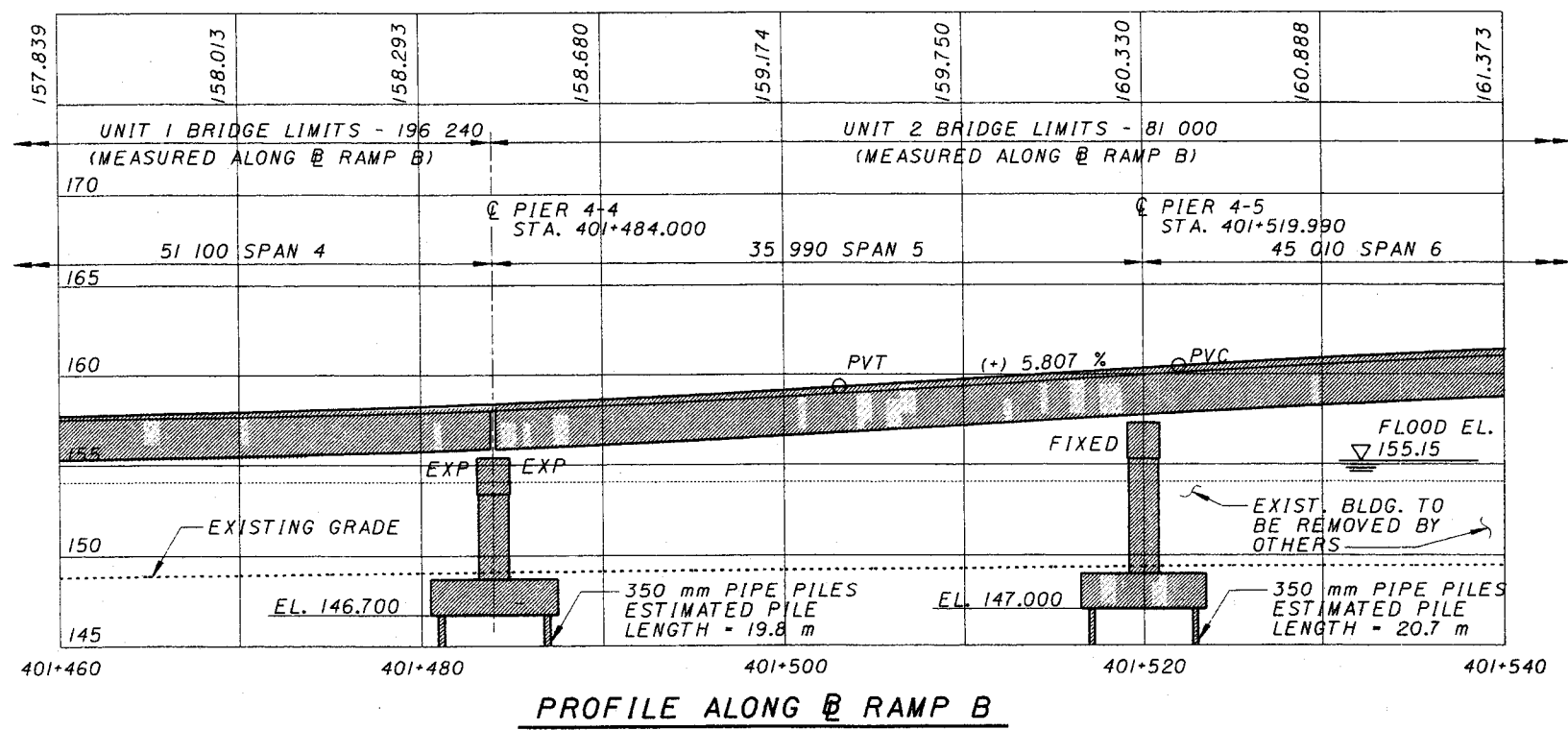
WEARING SURFACE: MONOLITHIC CONCRETE
 APPROACH SLAB: NONE

ALIGNMENT: CURVE TO LEFT THEN TANGENT

LATITUDE: N39° 06' 16"
 LONGITUDE: W84° 31' 45"

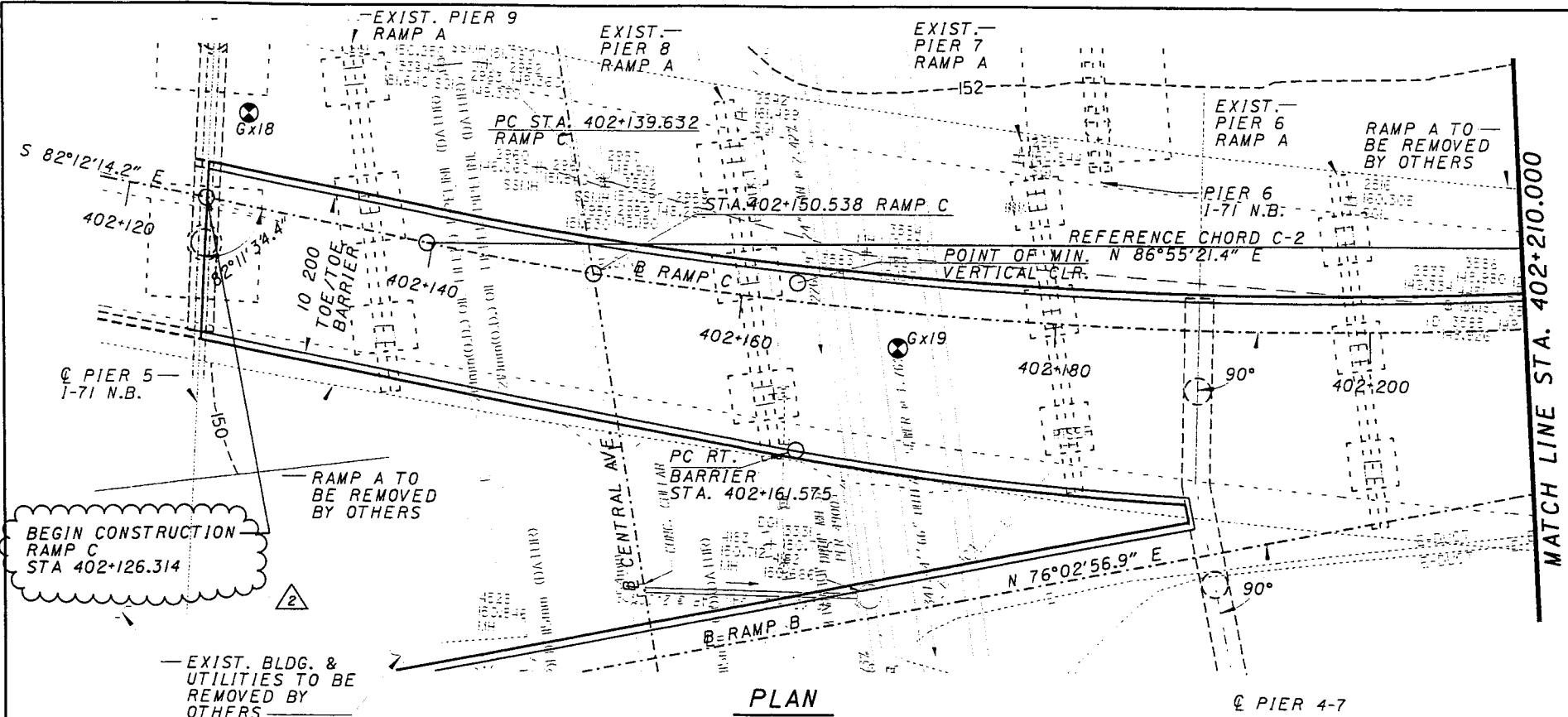


FOR NOTES SEE SHEET 3/180



Wed Jun 16 16:05:35 1999
 6/16/99
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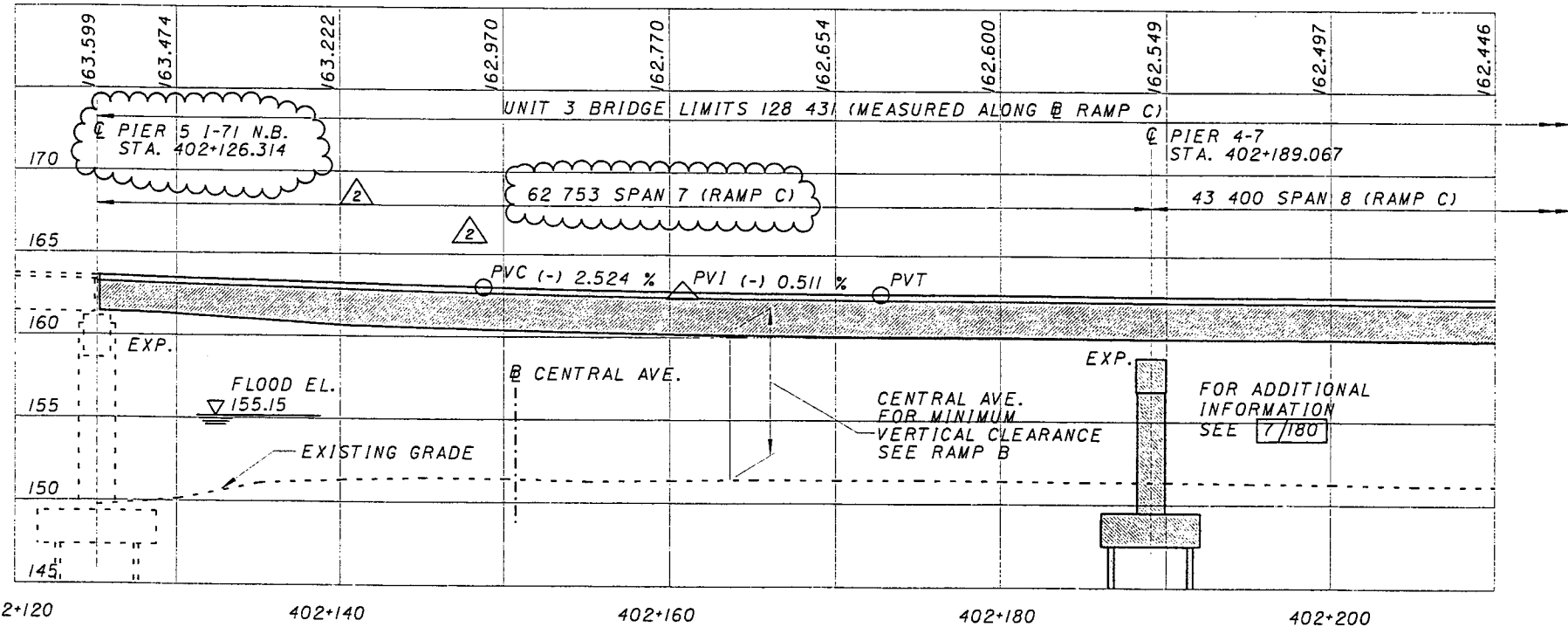
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 8/7/99
 G:\CAD\01\FR\FR4VB\04\p0704.plt
 8/7/99
 G:\CAD\01\FR\FR4VB\04\p0704.plt
 8/7/99



PLAN

TRAFFIC DATA (RAMP C)	
ADT (2000) -	
ADT (2020) -	
ADTT (2020) -	
SOURCE -	ODOT

CURVE DATA C-2	
P.I. Sta.	402+197.258
D	-21° 44' 48.9" (LT)
R	-300.000 m.
T	-57.627 m.
L	-113.867 m.
E	-5.485 m.
P.C. Sta.	402+139.632
P.T. Sta.	402+253.498



PROFILE ALONG B RAMP C

FOR NOTES SEE SHEET 3/180

PROPOSED STRUCTURE (RAMP C)	
TYPE:	4 SPAN CONTINUOUS PLATE GIRDER "A709M (345), PAINTED" WITH COMPOSITE CONCRETE DECK, SUPPORTED BY REINFORCED CONCRETE PIERS
LENGTH OF SPAN:	62 753, 43 400, MEASURED C/C PIER ALONG B RAMP C THEN WITH RAMP B
ROADWAY WIDTH:	VARIES
DESIGN LOADING:	MS18 WITH ALTERNATE MILITARY LOADING, CASE I.
SKREW ANGLE:	RADIAL
SUPER ELEVATION:	VARIES FROM +0.0160 TO +0.0460
WEARING SURFACE:	MONOLITHIC CONCRETE
APPROACH SLAB:	NONE
ALIGNMENT:	TANGENT THEN CURVE TO LEFT THEN TANGENT AGAIN
LATITUDE:	N39° 06' 16"
LONGITUDE:	W84° 31' 45"

REVISION NO.	DESCRIPTION	DATE	BY
2	REVISED PIER 5	8-6-99	LAE/KDB

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

CITY OF CINCINNATI
 STA. 402+125.067
 STA. 402+210.000

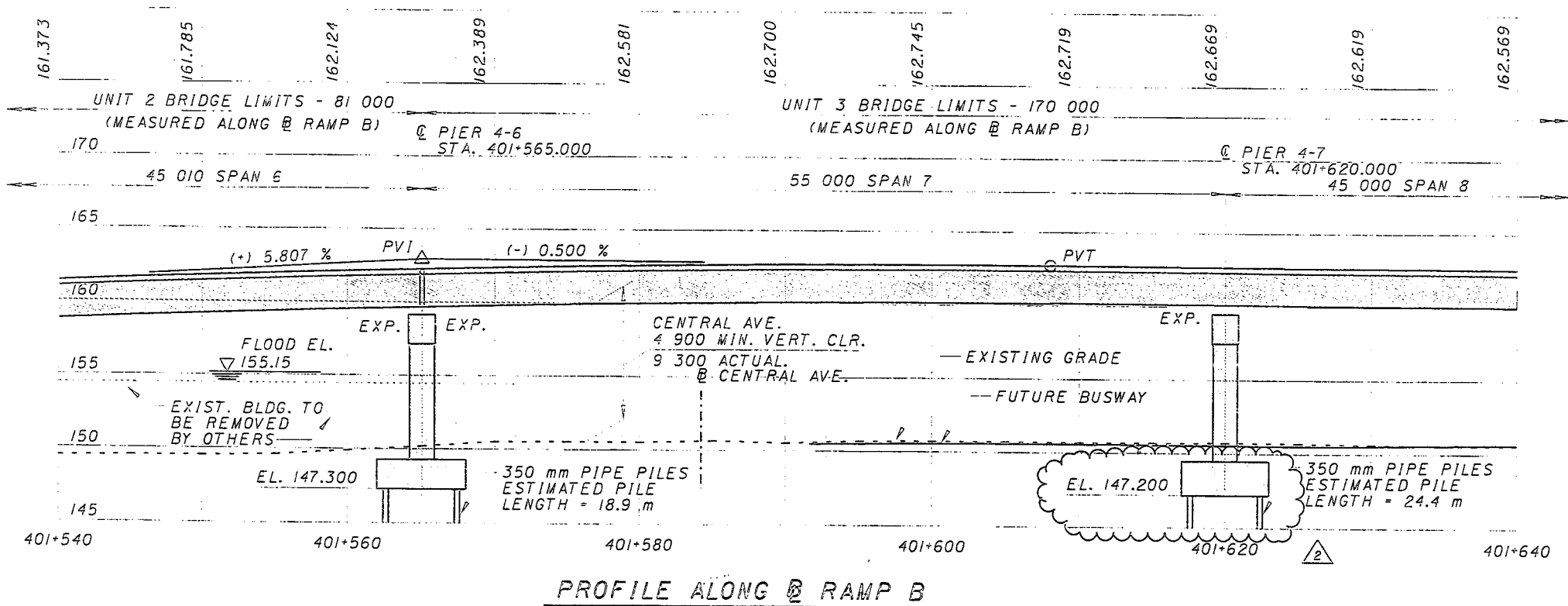
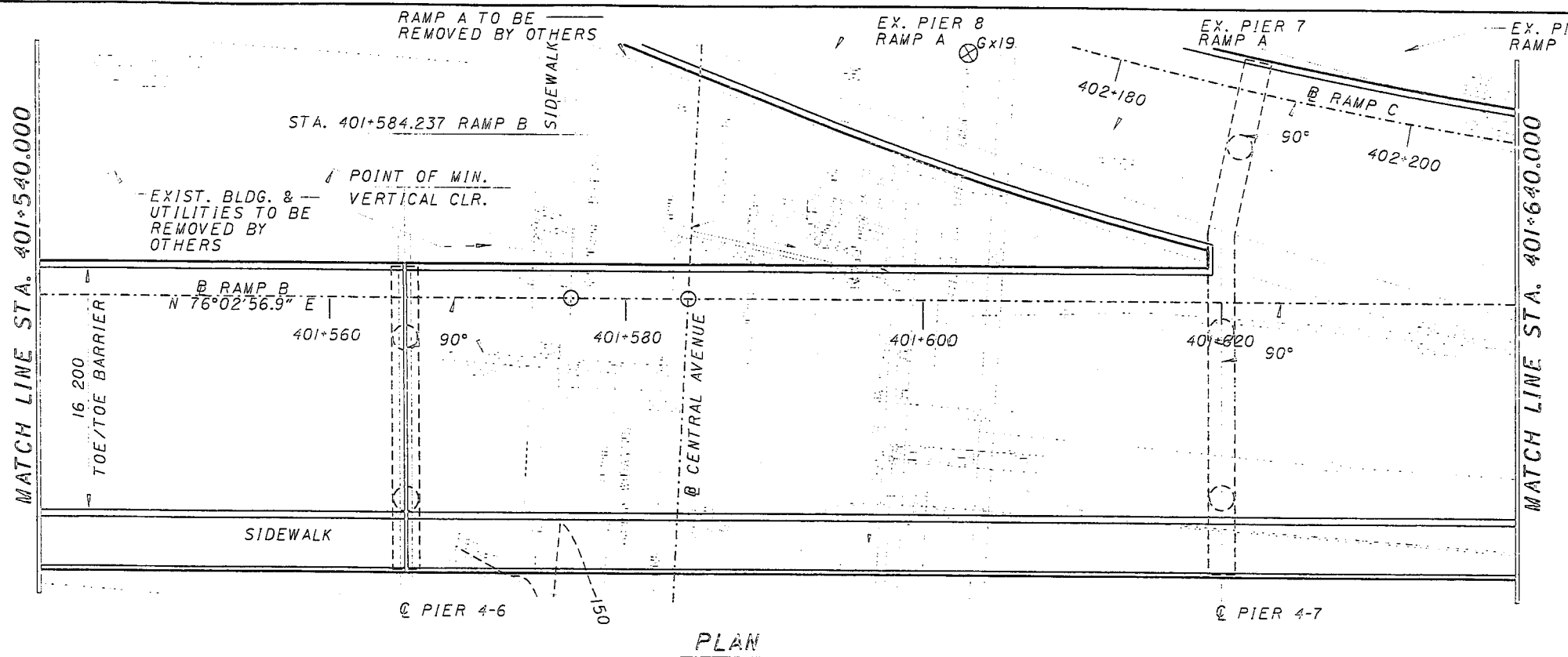
SITE PLAN - 4
 BRIDGE NO. 2
 RAMP C

CONTRACT No. 75X5753

6 / 180

58
 232

REVISION NO. 2
AUGUST 6, 1999



FOR NOTES SEE SHEET 3/180

PROPOSED STRUCTURE RAMP B UNIT 3	
TYPE:	4 SPAN CONTINUOUS PLATE GIRDER "A709M (345), PAINTED" WITH COMPOSITE CONCRETE DECK, SUPPORTED BY REINFORCED CONCRETE PIERS
LENGTH OF SPAN:	55,000, 45,000, 40,000, 30,000 MEASURED C/C PIER ALONG @
ROADWAY WIDTH:	VARIES, 23,400 TOE/TOE BARRIER MINIMUM INCLUDING RAMP C
DESIGN LOADING:	MS18 WITH ALTERNATE MILITARY LOADING, CASE I.
SKEW ANGLE:	NONE
SUPER ELEVATION:	-0.0160
WEARING SURFACE:	MONOLITHIC CONCRETE
APPROACH SLAB:	NONE
ALIGNMENT:	TANGENT
LATITUDE:	N39° 06' 16"
LONGITUDE:	W84° 31' 45"

REVISION NO.	DESCRIPTION	DATE	BY
2	REVISED ELEVATION PIER 4-7	8-6-99	MCG
1	REVISED ELEVATION PIER 4-7	8-6-99	MCG

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

CITY OF CINCINNATI
 STA. 401+540.000
 STA. 401+640.000

CONTRACT No. 75X5753

SITE PLAN - 5
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

7/180

59
 232

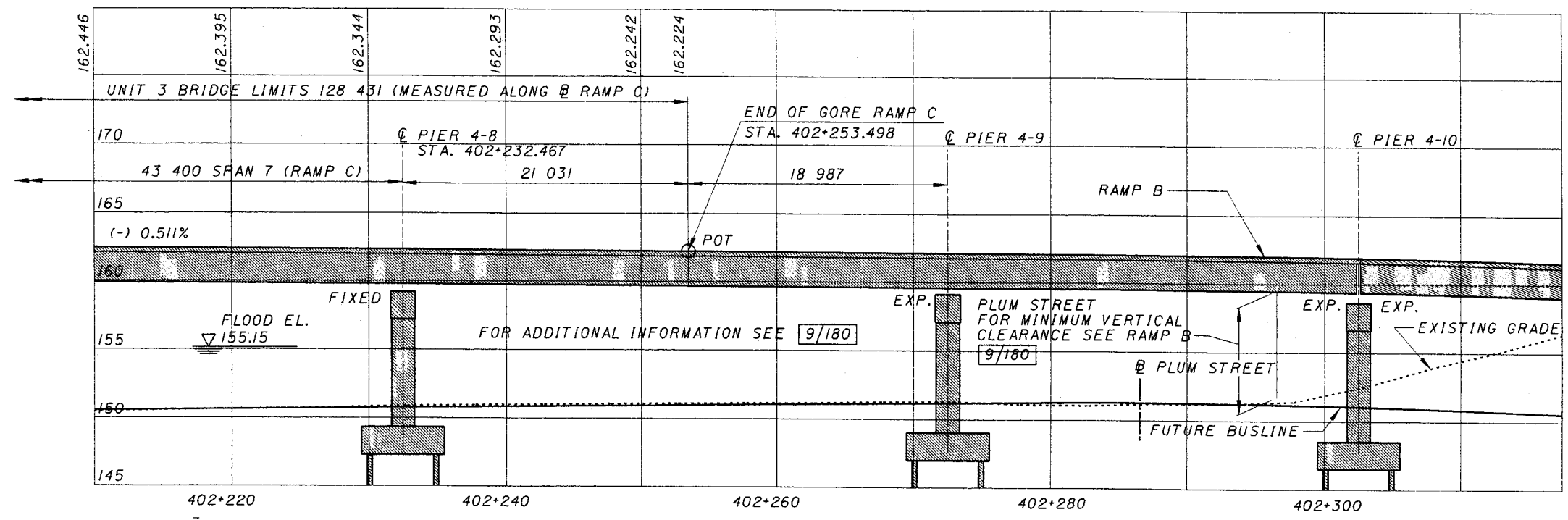
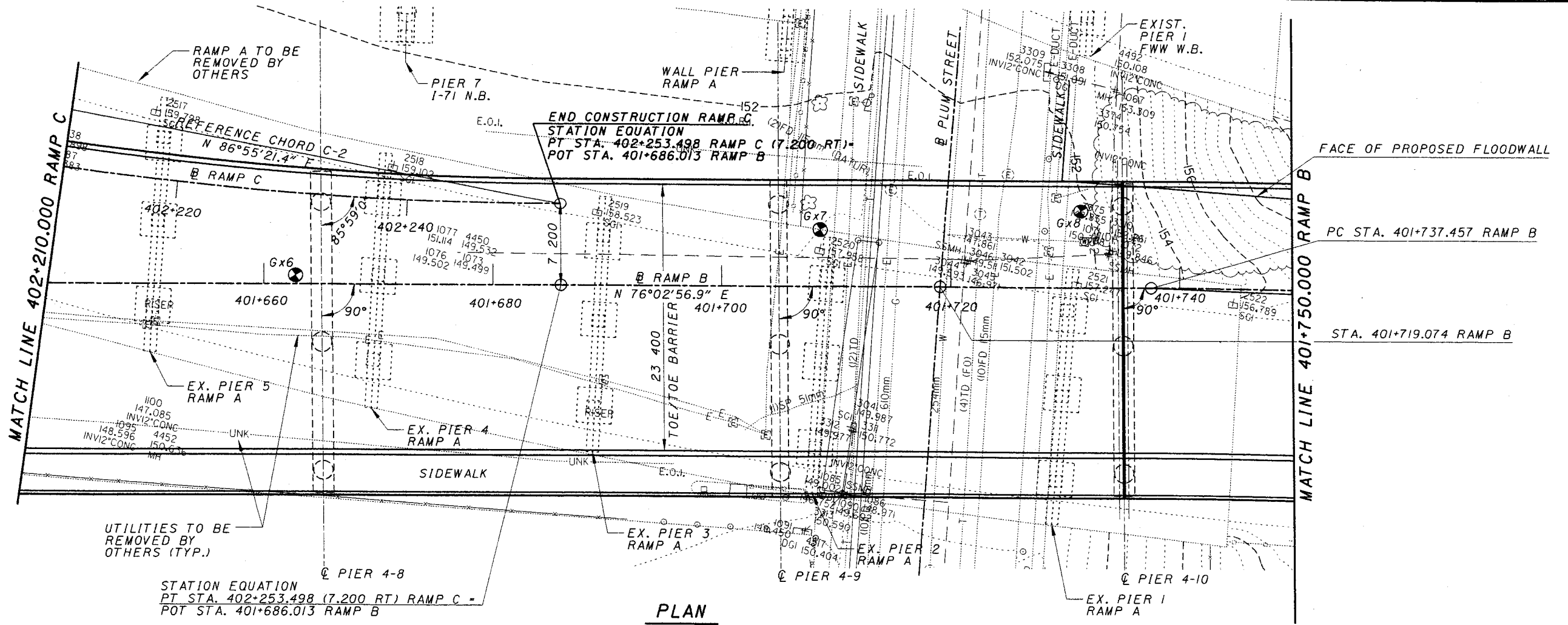
REVISION NO. 2
 AUGUST 6, 1999

Wed Jun 16 15:53:57 1999

6/16/99

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G:\cadd\fw\fw07\brldgs\04\04sp0706.dgn



PROFILE ALONG @ RAMP C

FOR NOTES SEE SHEET 3/180

DESIGN AGENCY
PP PARSONS BRINCKERHOFF, INC.
150 ELM STREET SUITE 2500
CINCINNATI, OH 45202-2720

DATE REVIEWED DATE DRAWN MCG DESIGNED EB CITY OF CINCINNATI STA. 402+210.000 STA. 401+750.000

STRUCTURE FILE NUMBER 31072119

REVISOR CHECKED

SITE PLAN - 6
BRIDGE NO. 2
RAMP C

CITY OF CINCINNATI
CONTRACT No. 75X5753

8/18

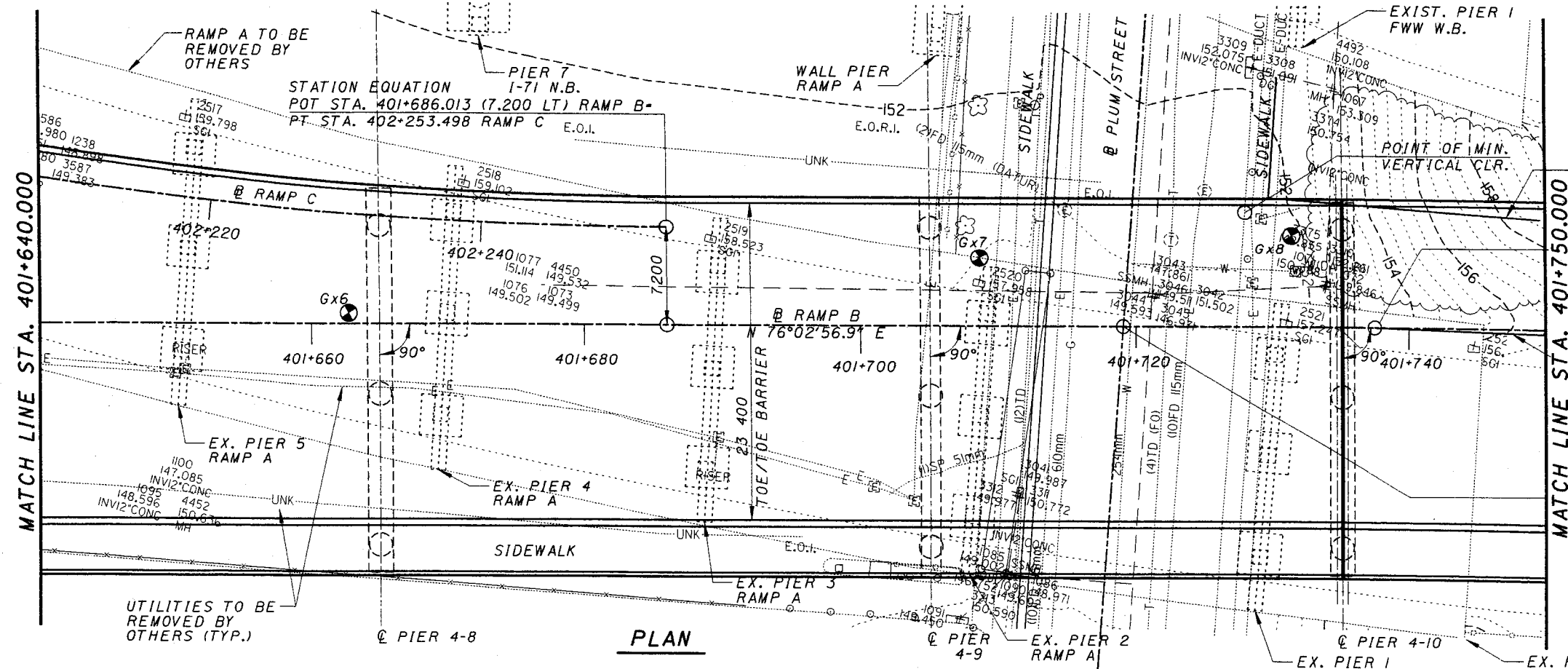
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232

Wed Jun 16 15:54:33 1999

6/16/99

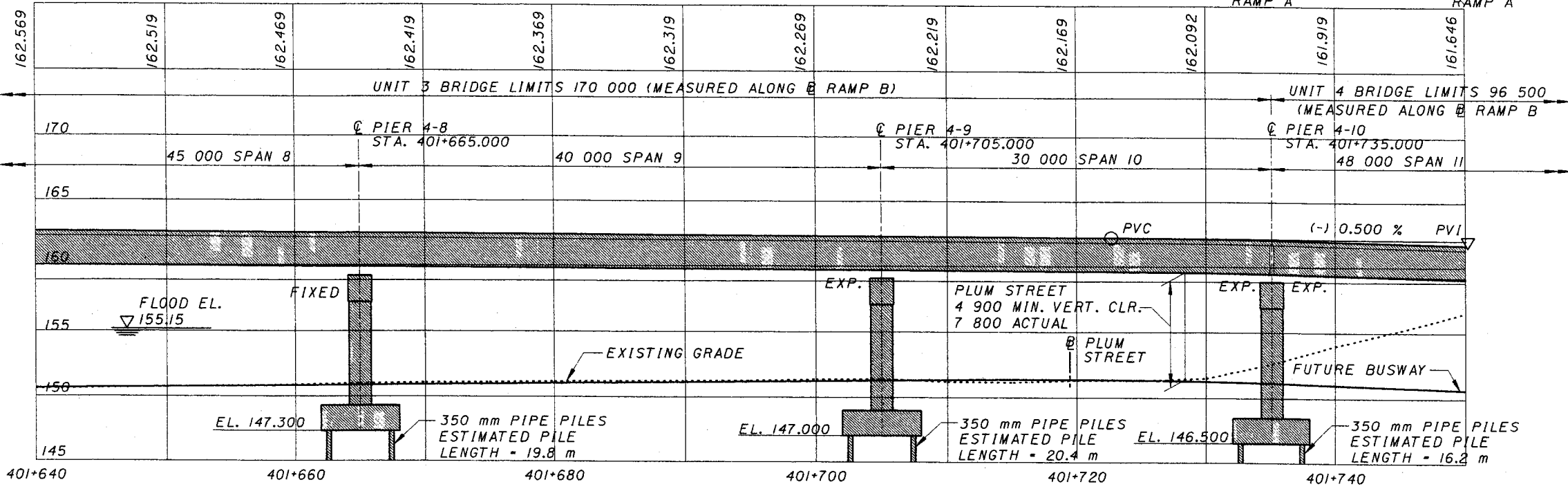
G:\CADD\PRF\XES\04sp0707.dwg

G:\cadd\fw\fw07\bridges\04\04sp0707.dgn



CURVE DATA B-2

P.I. Sta. 401+760.120
 D = 4° 19' 34.4" (RT)
 R = 600.000 m.
 T = 22.663 m.
 L = 45.304 m.
 E = 0.428 m.
 P.C. Sta. 401+737.457
 P.T. Sta. 401+782.761



PROFILE ALONG @ RAMP B

PROPOSED STRUCTURE RAMP B UNIT 4

TYPE: 2 SPAN CONTINUOUS PLATE GIRDER "A709M (345), PAINTED" WITH COMPOSITE CONCRETE DECK, SUPPORTED BY REINFORCED CONCRETE PIERS

LENGTH OF SPAN: 48,000, 48 000 MEASURED C/C PIER ALONG @

ROADWAY WIDTH: VARIES, 23 400 TOE/TOE BARRIER MAXIMUM

DESIGN LOADING: MS18 WITH ALTERNATE MILITARY LOADING, CASE I.

SKUEW ANGLE: NONE

SUPER ELEVATION: VARIES -0.0160 TO +0.0300

WEARING SURFACE: MONOLITHIC CONCRETE

APPROACH SLAB: NONE

ALIGNMENT: TANGENT

LATITUDE: N39° 06' 16"

LONGITUDE: W84° 31' 45"

FOR NOTES SEE SHEET 3/180

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC. 312 ELM STREET SUITE 2500 CINCINNATI, OH 45202-2720

DESIGNED: EB CHECKED: []

DRAWN: MCG REVISED: []

DATE: []

REVIEWED: []

STRUCTURE FILE NUMBER: 7107410

CITY OF CINCINNATI STA. 401+640.000 STA. 401+735.000

SITE PLAN - 7 BRIDGE NO. 4

CITY OF CINCINNATI CONTRACT No. 75X5753

9/18

61

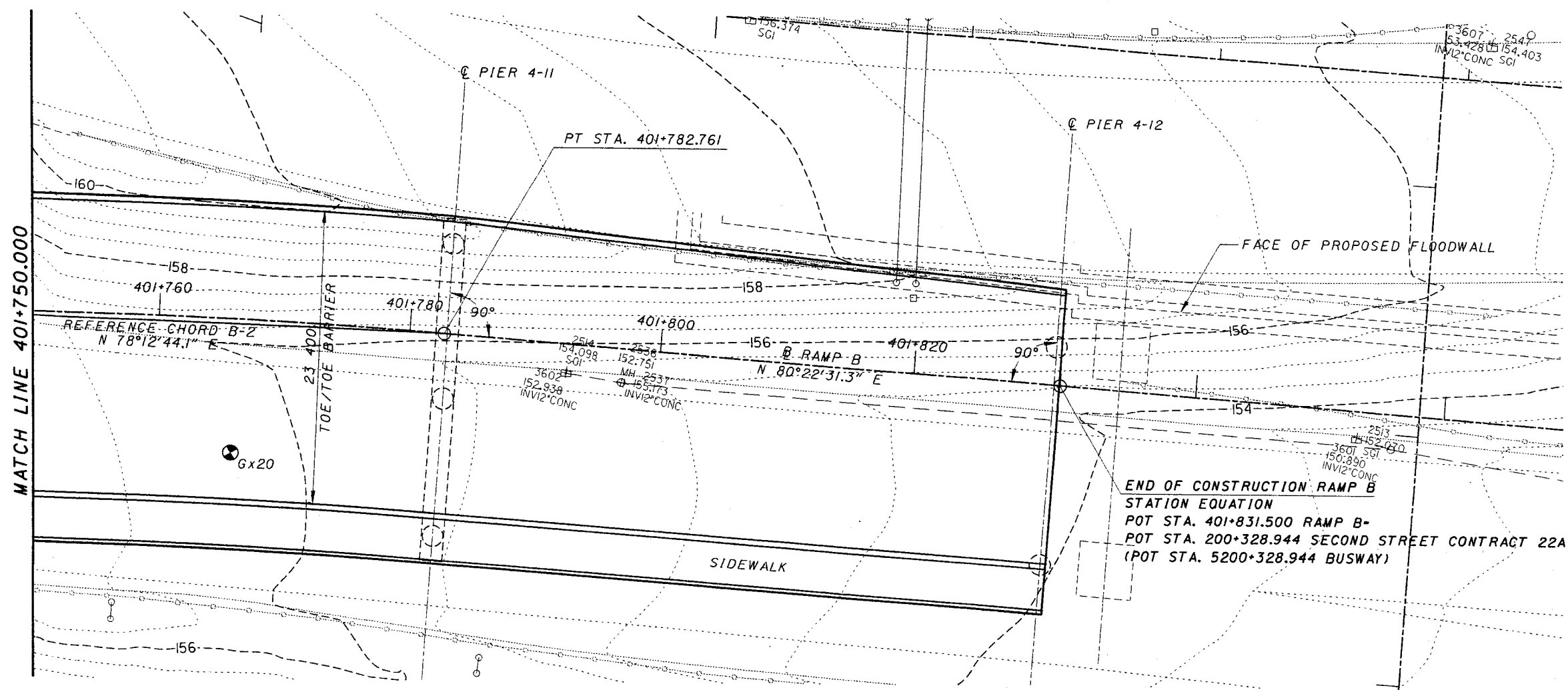
232

Wed Jun 16 15:57:10 1999

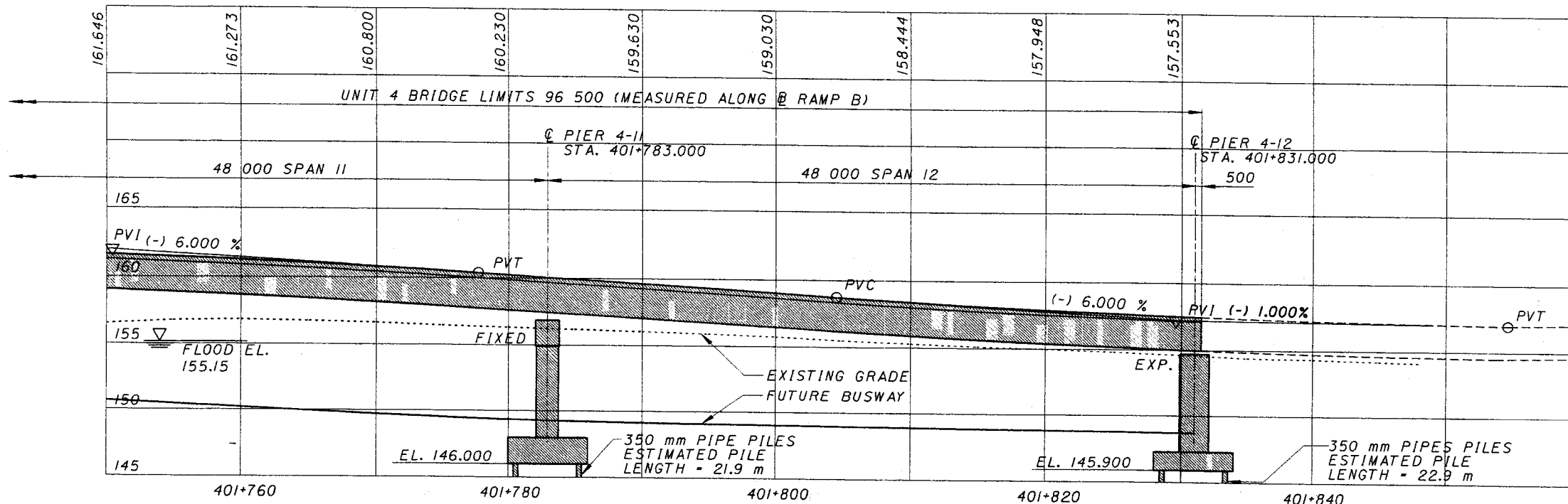
6/16/99

G:\CADD\PRF\XES\04sp0708.pr+f

G:\cadd\Fww\7\brldges\04\04sp0708.dgn



PLAN



PROFILE ALONG @ RAMP B

FOR NOTES SEE SHEET 3/180

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
512 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2120



DESIGNED	EB	CHECKED	
DRAWN	MCG	REVISED	
REVIEWED	DATE	STRUCTURE FILE NUMBER	7/07/00

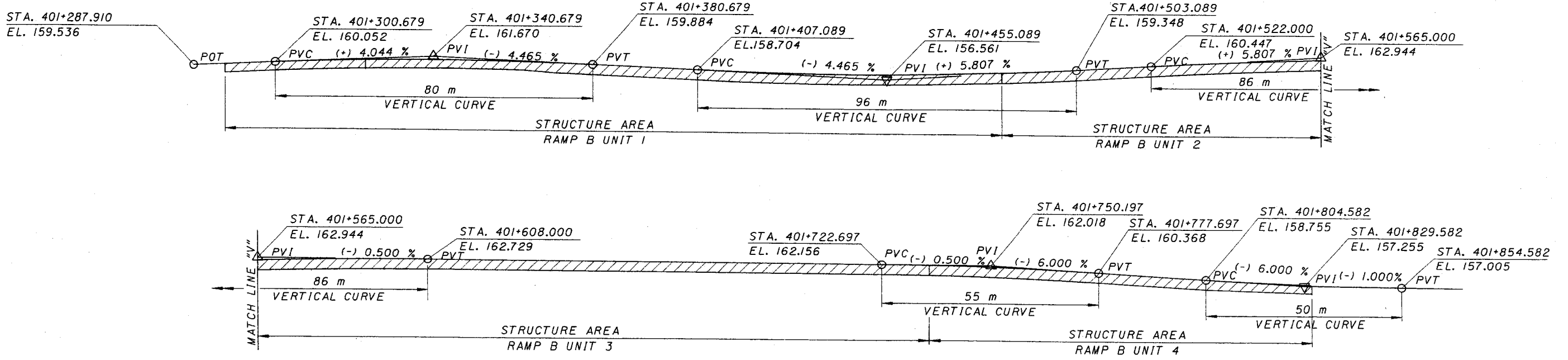
CITY OF CINCINNATI
STA. 401+750.000
STA. 401+831.500

SITE PLAN - 8
BRIDGE NO. 4
RAMP B

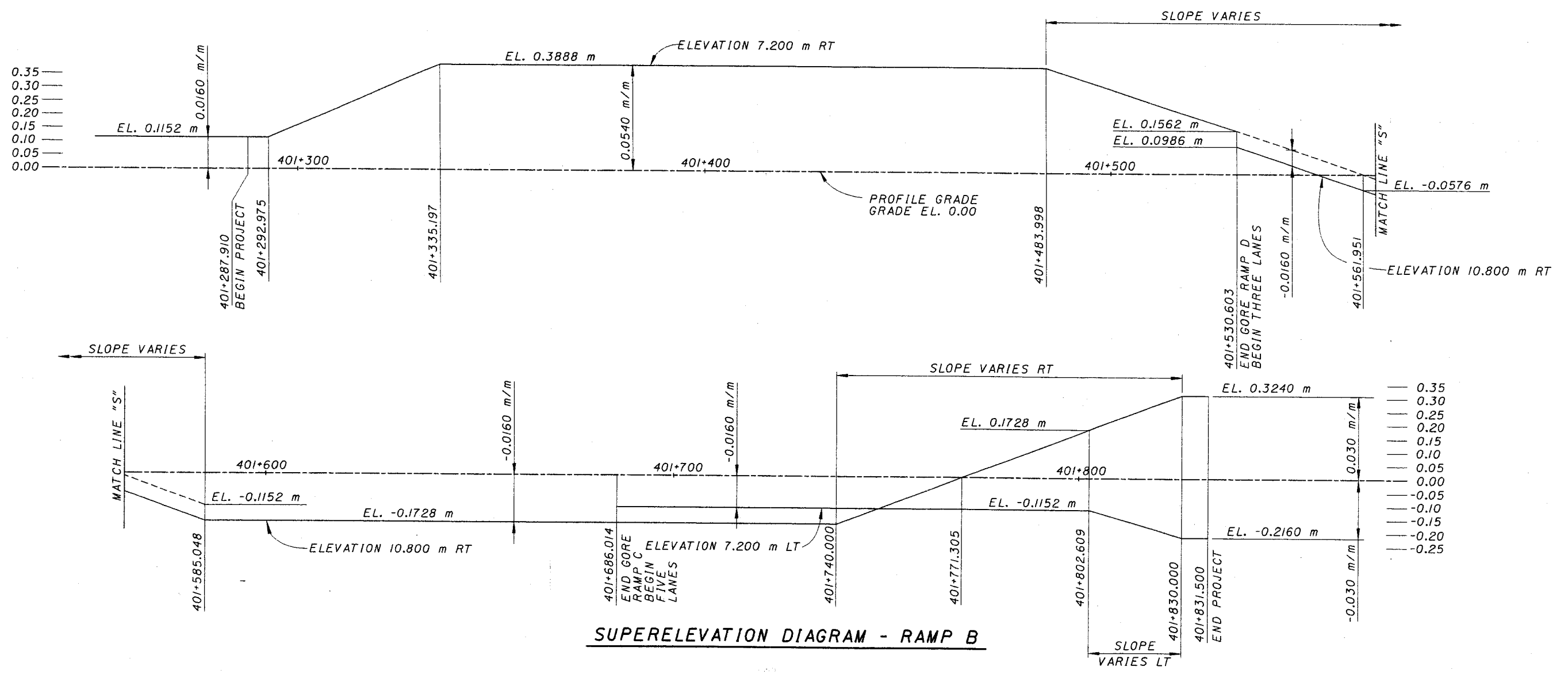
CITY OF CINCINNATI
CONTRACT No. 75X5753

10/180

62
232



VERTICAL ALIGNMENT DIAGRAM - RAMP B



SUPERELEVATION DIAGRAM - RAMP B

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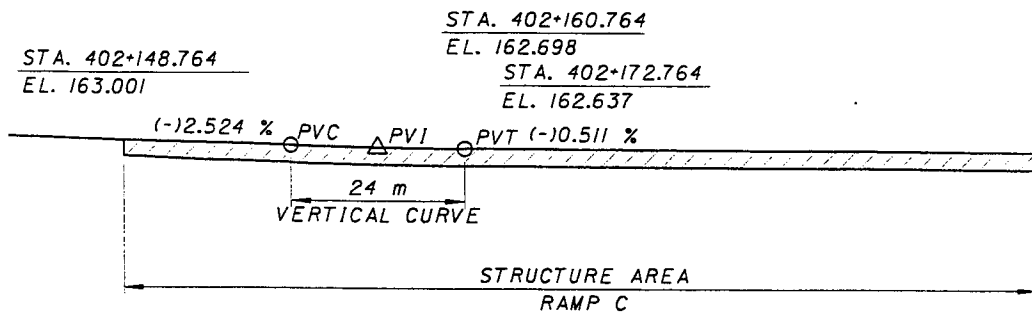
DESIGN AGENCY: PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720
 DRAWN: MCG CHECKED: FR
 REVIEWED: MCG
 DATE: 1/17/92
 STRUCTURE FILE NUMBER: 1713412
 CITY OF CINCINNATI CONTRACT No. 75X5753
 GEOMETRIC LAYOUT - I BRIDGE NO. 4 RAMP B
 63 / 180
 232

Tue Aug 11 09:06:04 1999

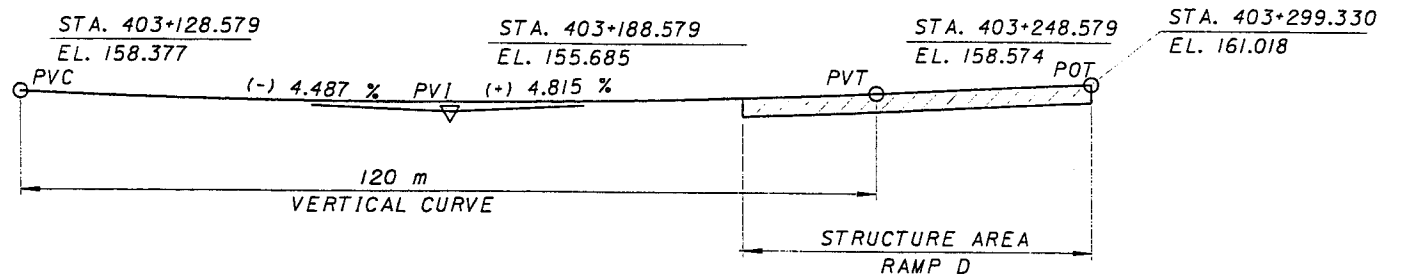
8/11/99

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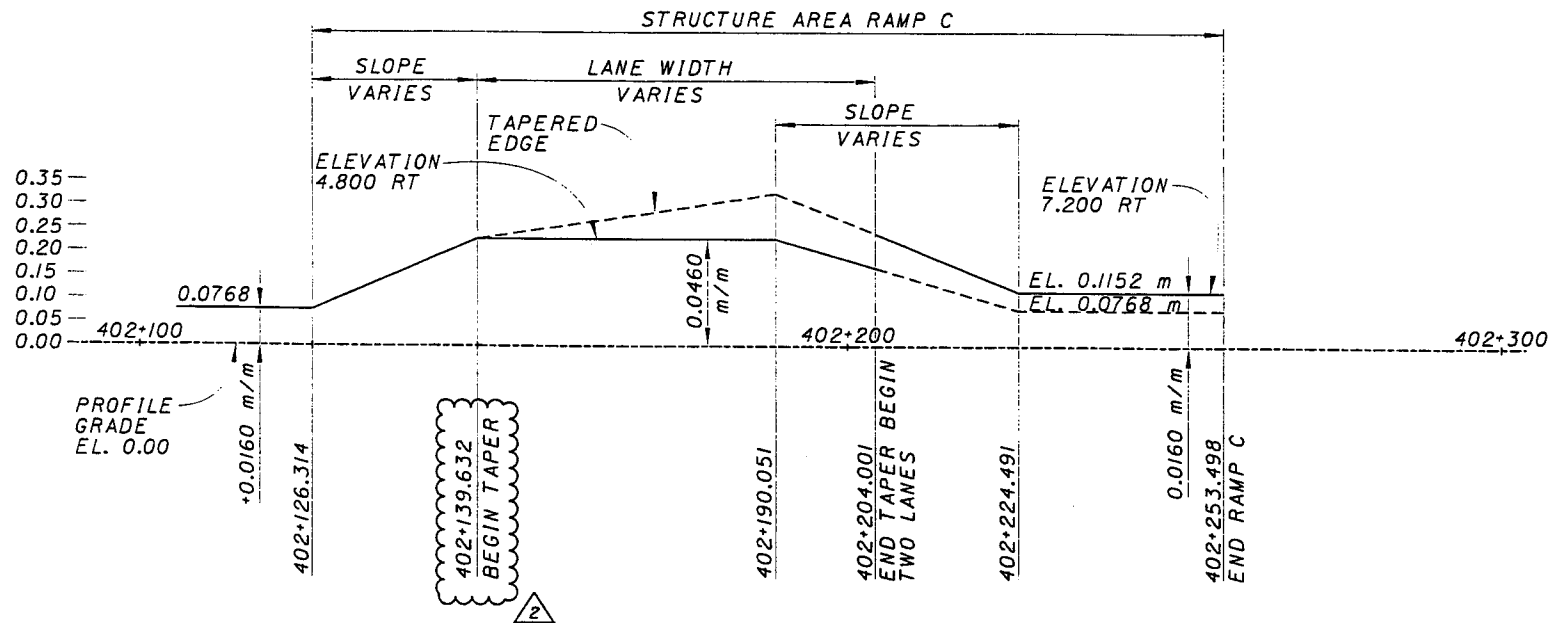
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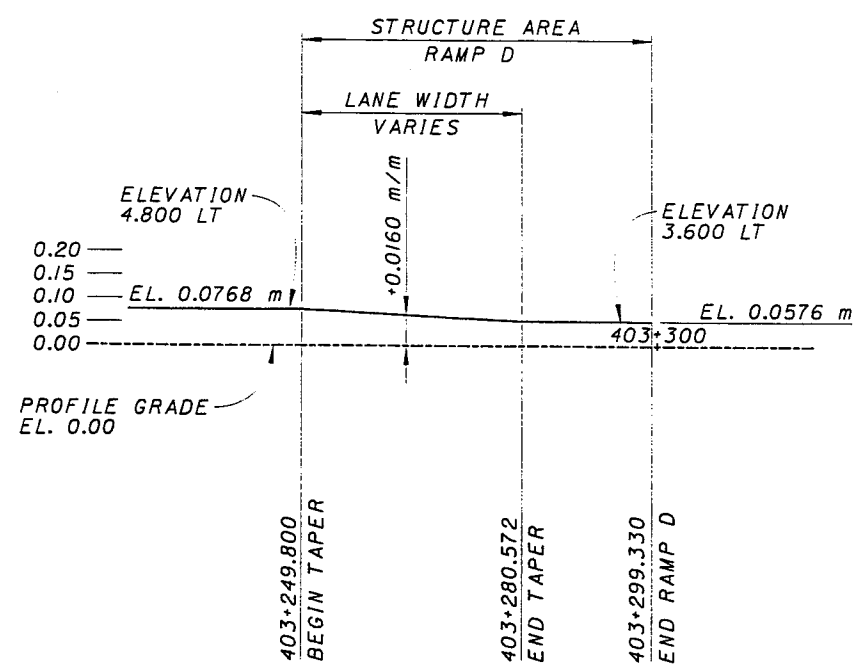
VERTICAL ALIGNMENT DIAGRAM - RAMP C



VERTICAL ALIGNMENT DIAGRAM - RAMP D



SUPERELEVATION DIAGRAM - RAMP C



SUPERELEVATION DIAGRAM - RAMP D

REVISION NO.	DESCRIPTION	DATE	BY
2	TAPER CHANGED	8-6-99	MCG

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

DATE
 REVIEWED
 DRAWN
 CHECKED
 DESIGNED
 FILE NUMBER
3103412

GEOMETRIC LAYOUT - 2
 BRIDGES NO. 2 & 4
 RAMPS C & D

CITY OF CINCINNATI
 CONTRACT No. 75X5753

12/180

REVISION NO. 2
 AUGUST 6, 1999

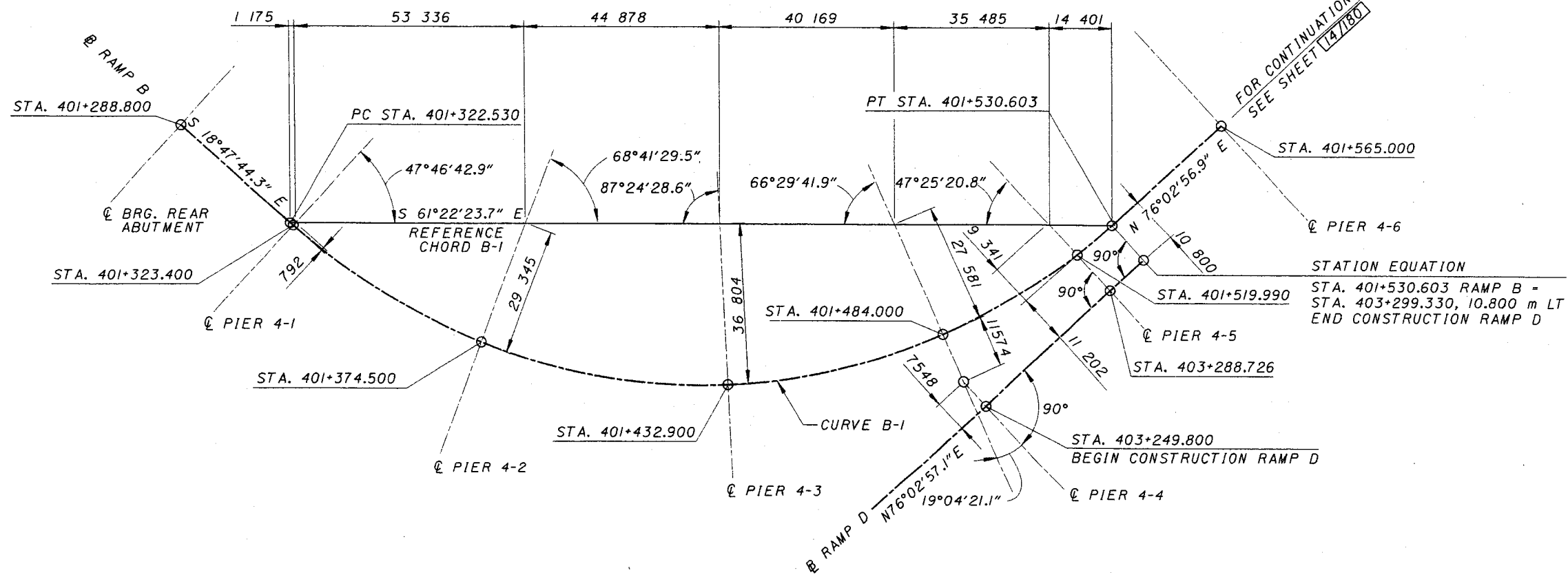
64
 232

Thu Jun 17 08:53:40 1999

6/17/99

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LAYOUT DIAGRAM

CURVE B-1

	N	E
P.I. STA. = 401+451.165	123,677.946	425,229.600
P.C. STA. = 401+322.530	123,799.722	425,188.154
P.T. STA. = 401+530.603	123,708.959	425,354.441
C.C.	123,844.829	425,320.689

Δ = 85°09'18.8" LT
 R = 140.000 m
 T = 128.636 m
 L = 208.073 m
 E = 50.124 m

STATION EQUATION
 STA. 401+530.603 RAMP B =
 STA. 403+299.330, 10.800 m LT
 END CONSTRUCTION RAMP D

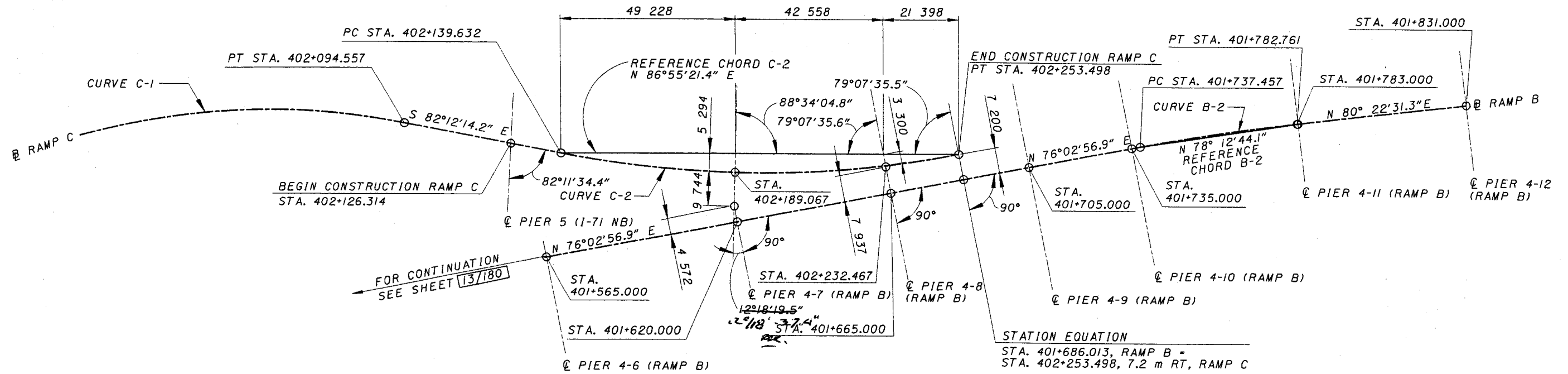
FOR CONTINUATION
SEE SHEET 14/180

Fri Jun 18 14:33:16 1999

6/18/99

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LAYOUT DIAGRAM

CURVE B-2

	N	E
P.I. STA. = 401+760.120	123,764.293	425,577.188
P.C. STA. = 401+737.457	123,758.829	425,555.194
P.T. STA. = 401+782.761	123,768.082	425,599.532
C.C.	123,176.527	425,699.847

Δ = 4°19'34.4" RT
 R = 600.000 m
 T = 22.663 m
 L = 45.304 m
 E = 0.428 m

CURVE C-2

	N	E
P.I. STA. = 402+197.258	123,739.521	425,447.604
P.C. STA. = 402+139.632	123,747.338	425,390.510
P.T. STA. = 402+253.498	123,753.414	425,503.531
C.C.	124,044.565	425,431.204

Δ = 21°44'48.9" LT
 R = 300.000 m
 T = 57.627 m
 L = 113.867 m
 E = 5.485 m



DESIGN AGENCY
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

DATE
 REVIEWED
 STRUCTURE FILE NUMBER
 3103412

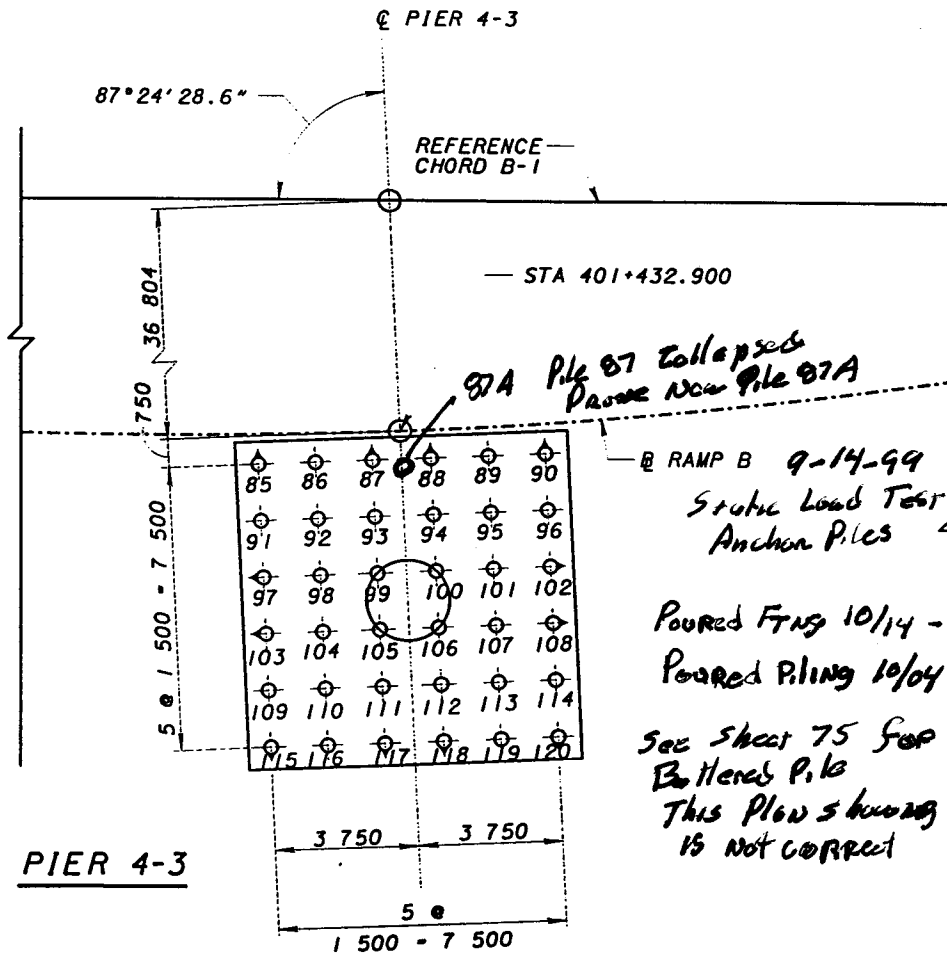
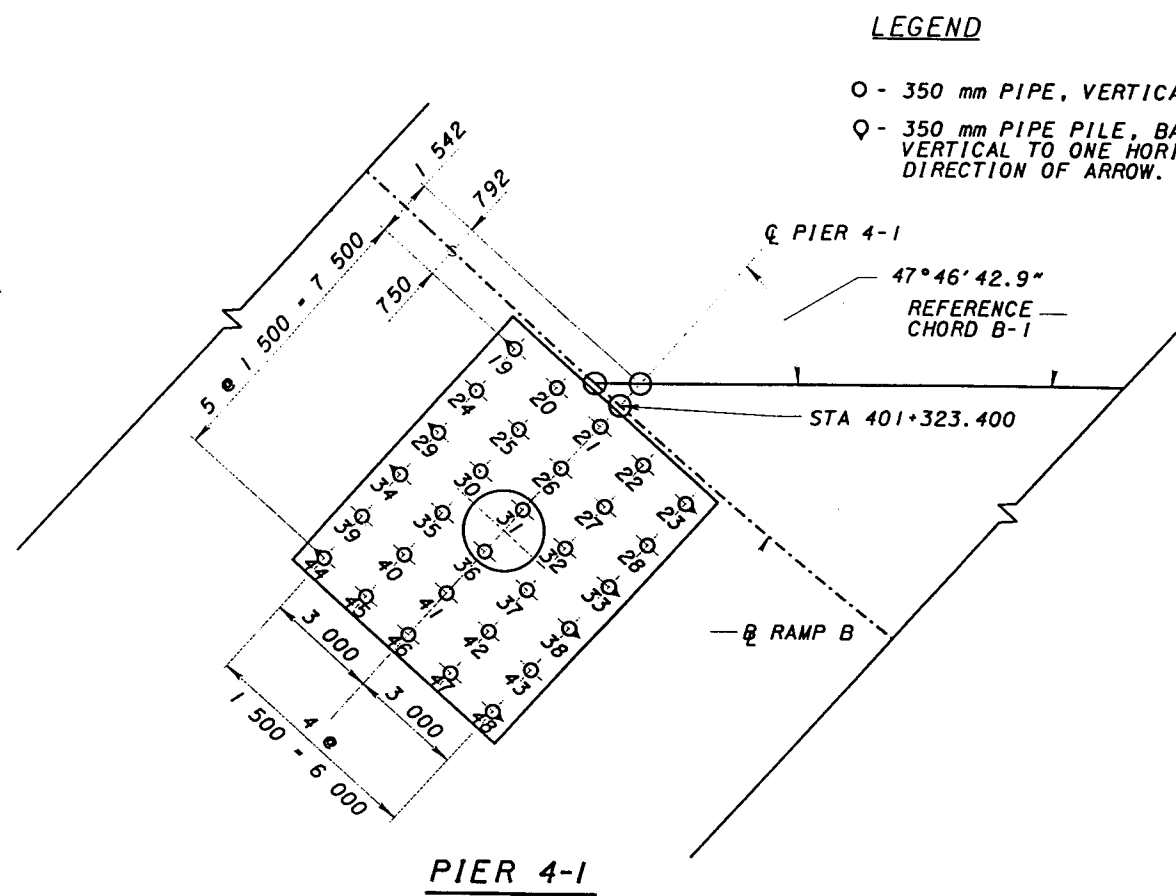
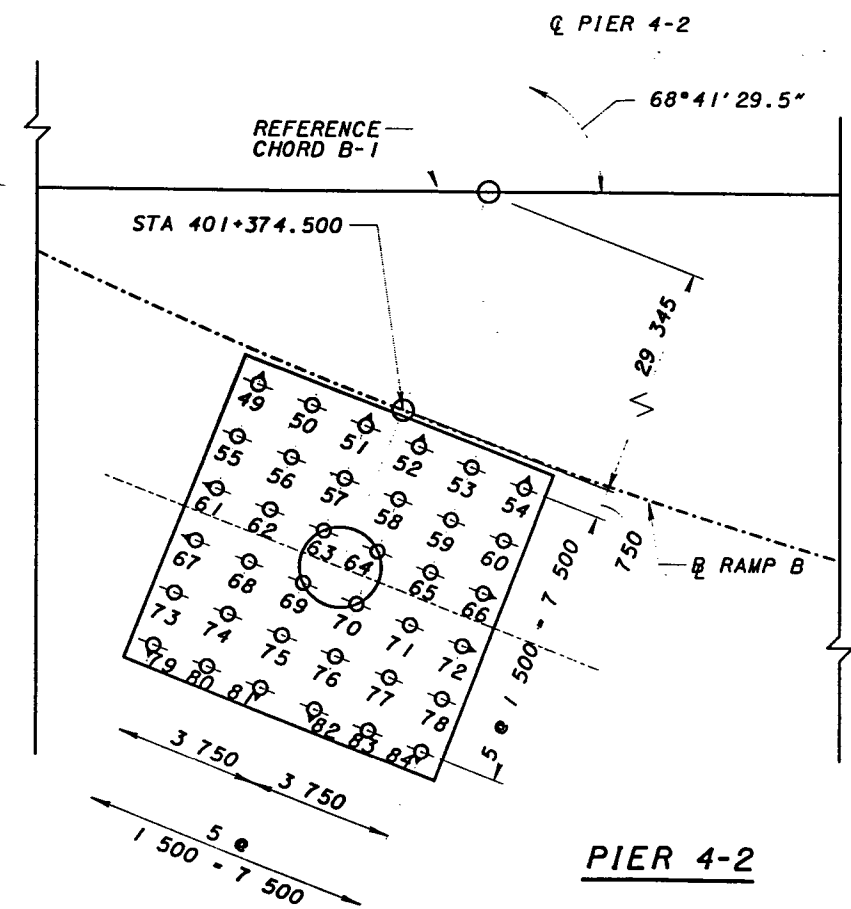
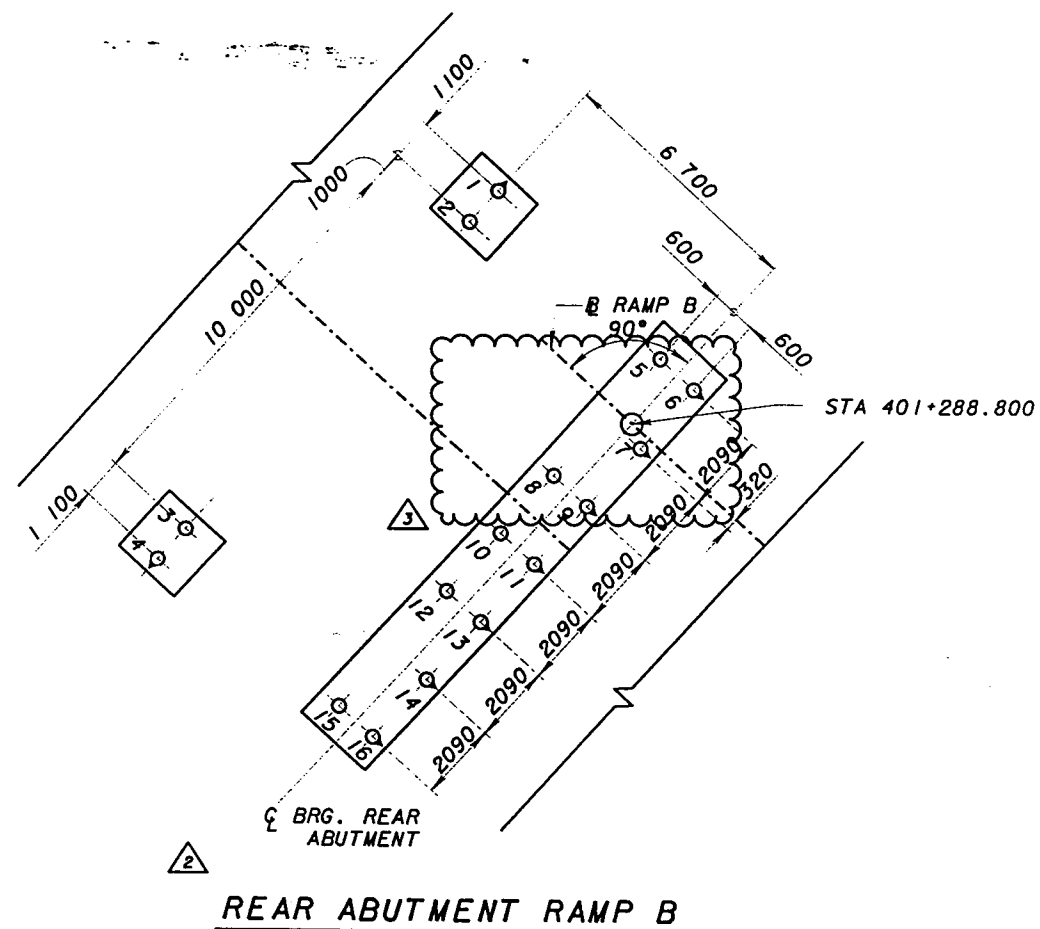
DRAWN
 MCG
 REVISION

DESIGNED
 MY
 CHECKED

GEOMETRIC LAYOUT - 4
 BRIDGES NO. 2 & 4
 RAMP B & C

CITY OF CINCINNATI
 CONTRACT No. 75X5753

G:\CADD\REF\HP4VB\04\0701.plt
 9/3/99
 Fri Sep 3 13:41:19 1999



LEGEND

- O - 350 mm PIPE, VERTICAL
- Q - 350 mm PIPE PILE, BATTER FOUR VERTICAL TO ONE HORIZONTAL IN DIRECTION OF ARROW.

REVISION NO.	DESCRIPTION	DATE	BY
REVISION 3	REMOVE DETAIL 1	9-7-99	MCG
DESIGNED	DATE	DESIGN AGENCY	
EB	REVIEWED	PARSONS BRINCKERHOFF, INC.	
CHECKED	STRUCTURE FILE NUMBER	312 ELM STREET, SUITE 2500	
DRAWN	3103412	CINCINNATI, OH 45202-2720	
KOB			
REVISED			

FOUNDATION LAYOUT - 1
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT NO. 75X5753

15/180

REVISION NO. 3
SEPT 7, 1999

67
232

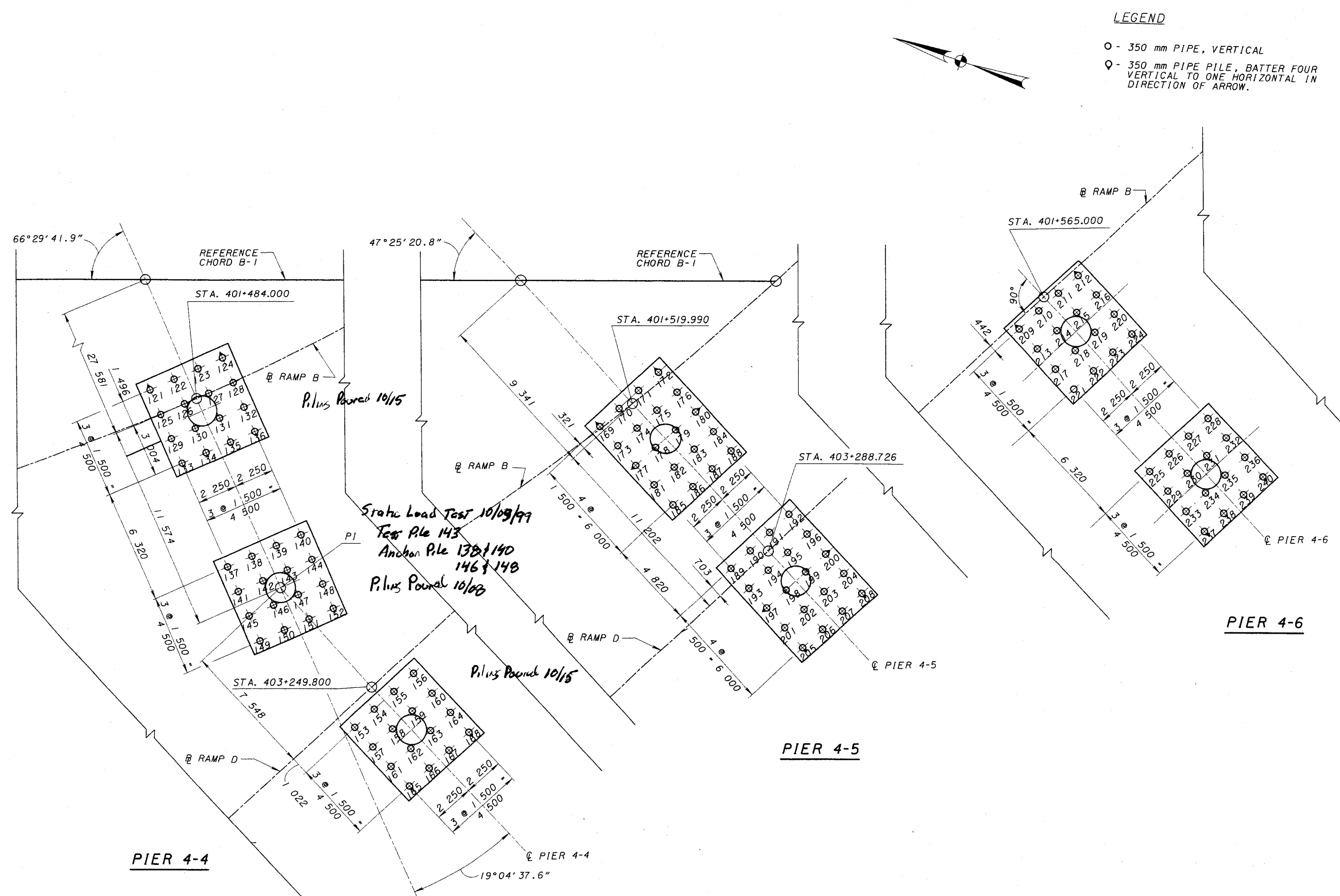
*97A Pile 87 collapsed
 Pile near Pile 97A*

*RAMP B 9-14-99
 Static Load Test 100
 Anchor Piles 93, 95 & 105 & 107*

*Poured Frms 10/14 - 225cy
 Poured Piling 10/04*

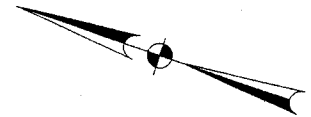
*See sheet 75 for
 Battered Pile
 This Plan showing Battered
 is not correct*

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LEGEND

- - 350 mm PIPE, VERTICAL
- ◑ - 350 mm PIPE PILE, BATTER FOUR VERTICAL TO ONE HORIZONTAL IN DIRECTION OF ARROW.



DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

DESIGNED	EB	CHECKED
DRAWN	KDB	REVISED
REVIEWED	DATE	STRUCTURE FILE NUMBER
		2107210

FOUNDATION LAYOUT - 2
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

16/180
 68
 232

Mon Jul 12 18:33:31 1999

7/12/99

G:\CADD\PRP\XES\04pi0703.prp

G:\CADD\PRP\XES\04pi0703.dgn

LEGEND

- - 350 mm PIPE, VERTICAL
- ◊ - 350 mm PIPE PILE, BATTER FOUR VERTICAL TO ONE HORIZONTAL IN DIRECTION OF ARROW.

REVISION NO.	ADDENDUM	DESCRIPTION	DATE	BY
DESIGNED	EB	PILE ARRANGEMENT	7-12-99	MCG
DRAWN	KDB			
CHECKED				
REVIEWED				

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

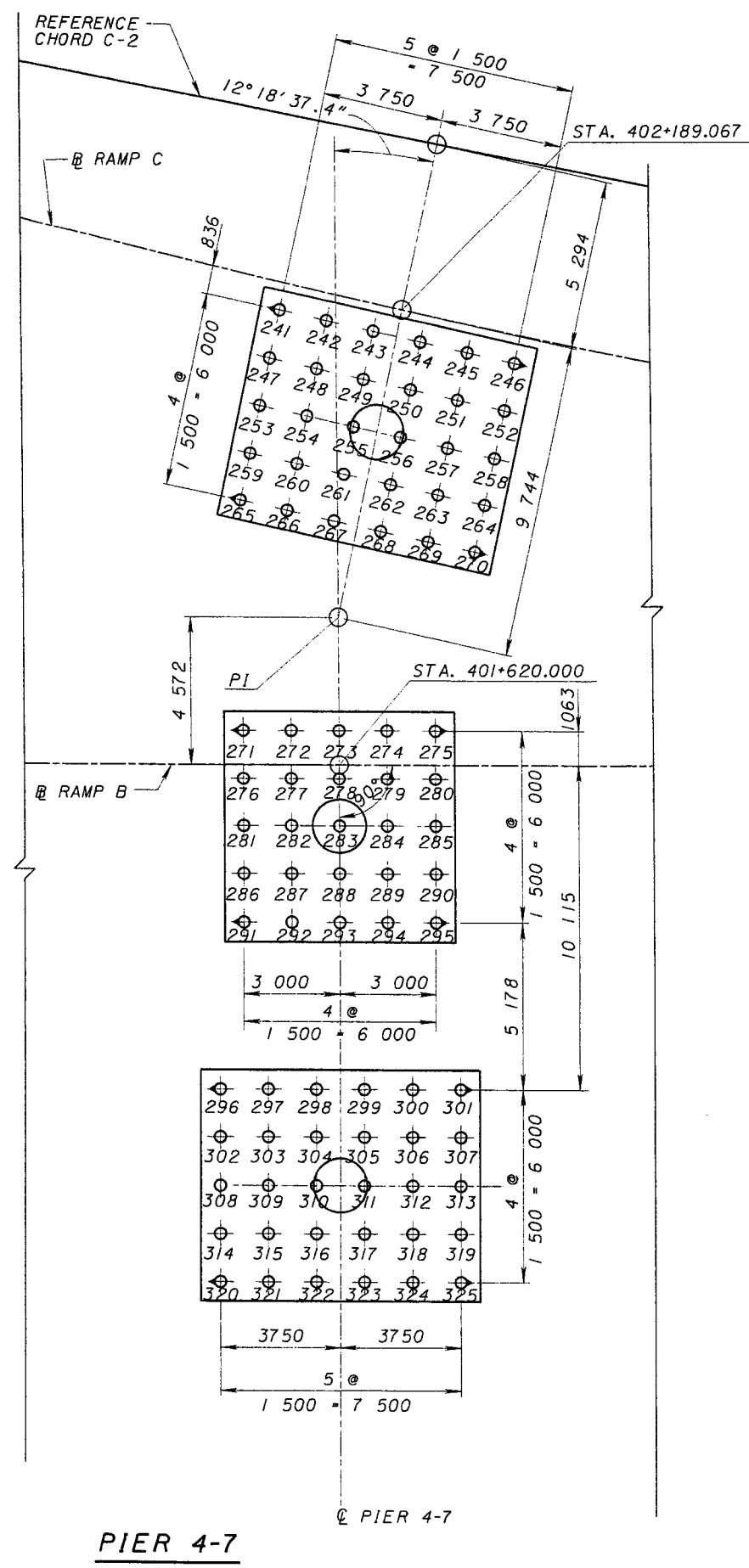
REVIEWED DATE
 STRUCTURE FILE NUMBER
 37034/2

FOUNDATION LAYOUT - 3
 BRIDGES NO. 2 & 4
 RAMPS B & C

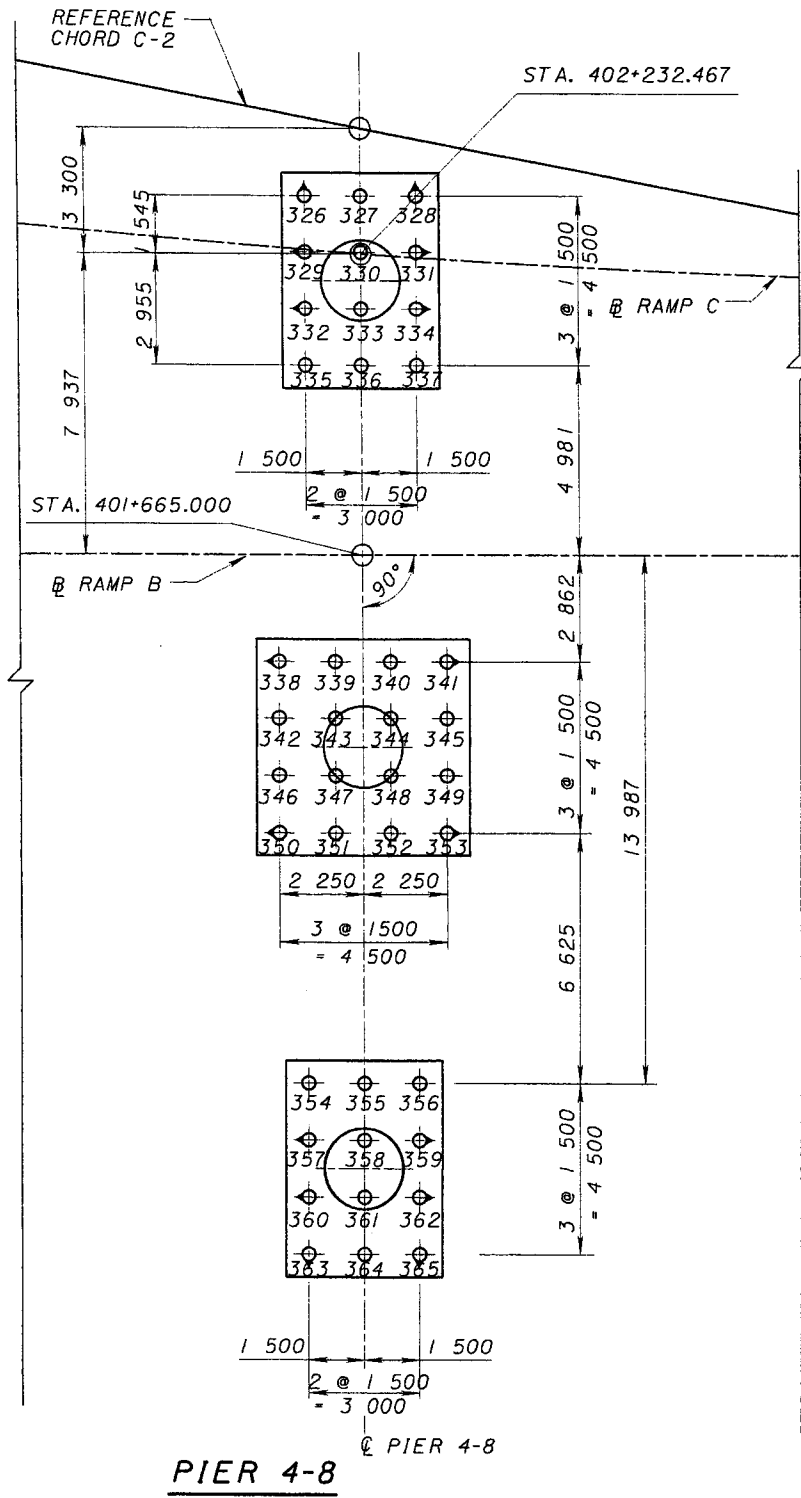
CITY OF CINCINNATI
 CONTRACT No. 75X5753



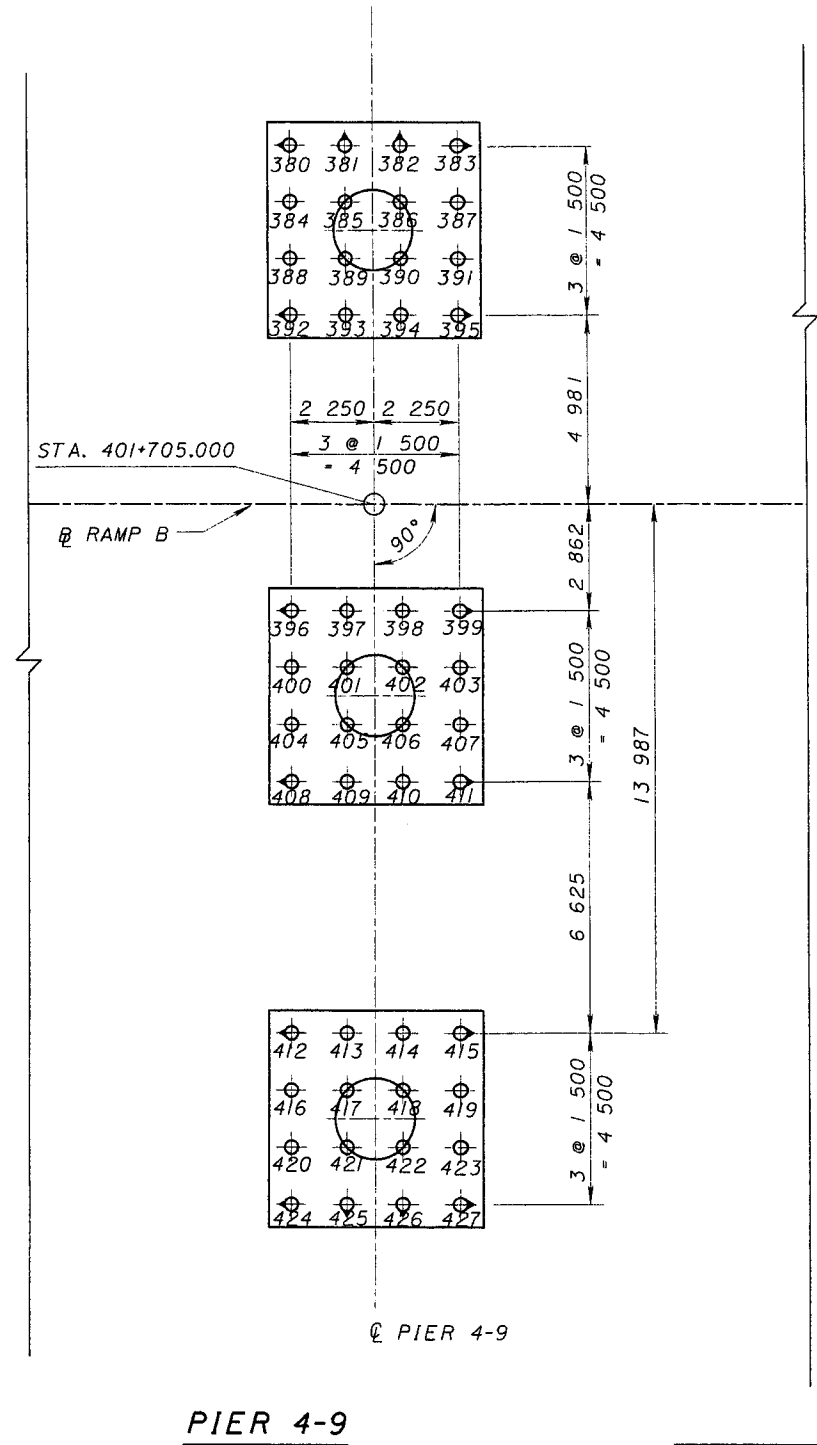
NOTE: PILE NUMBERS 366 - 379 ARE NOT USED.



PIER 4-7



PIER 4-8



PIER 4-9

Thu Jun 17 12:07:15 1999

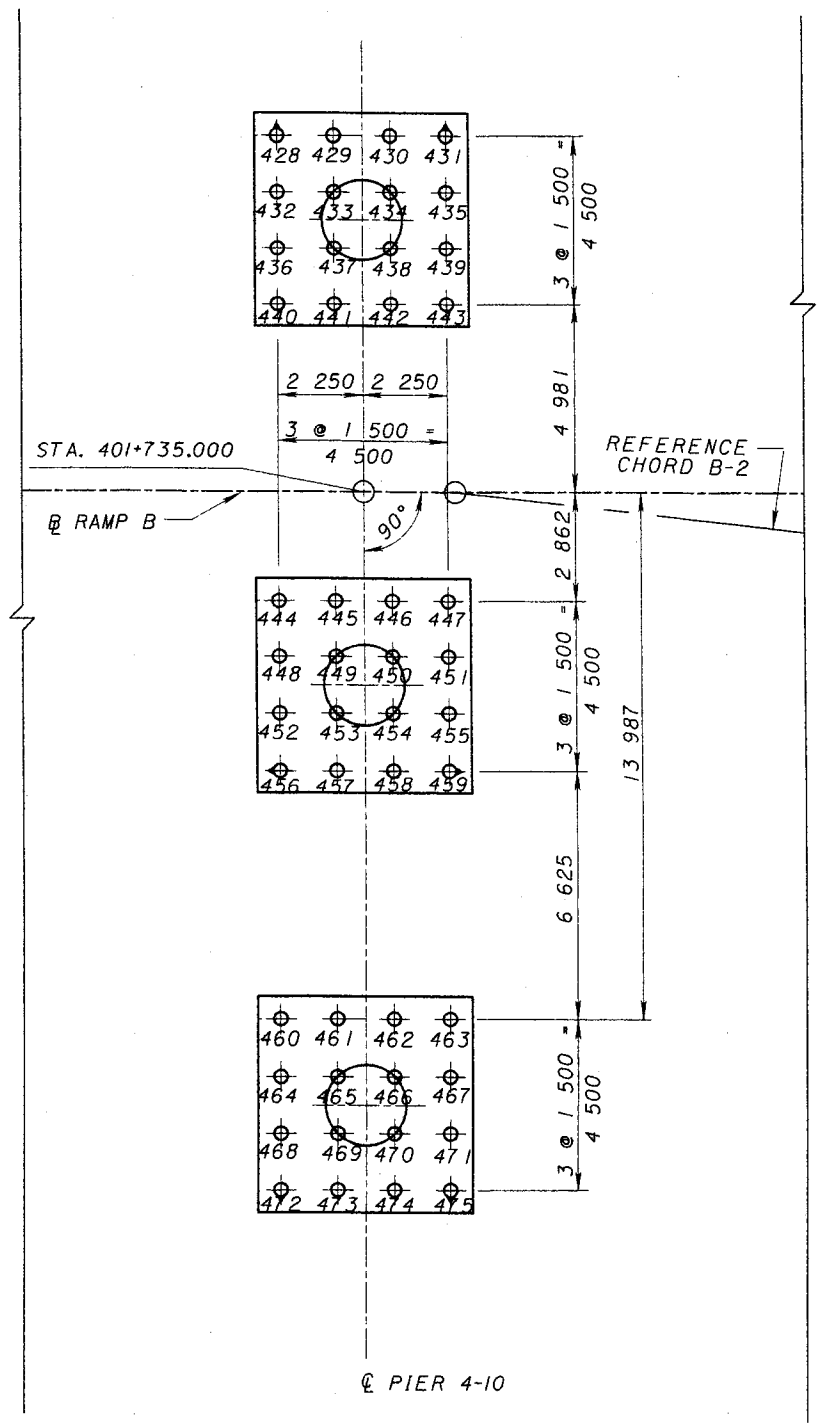
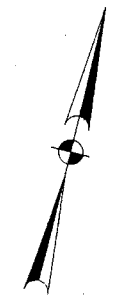
6/17/99

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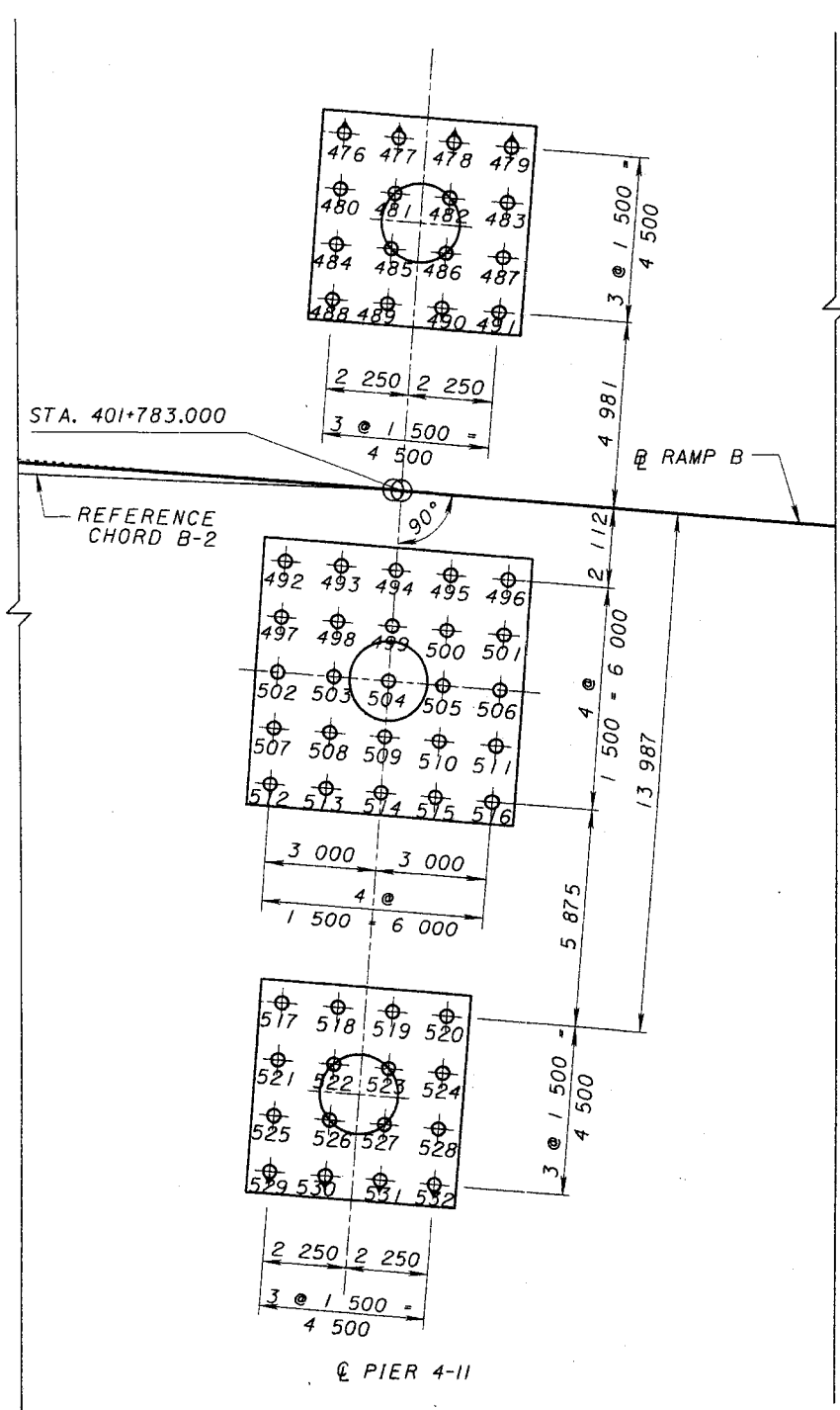
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LEGEND

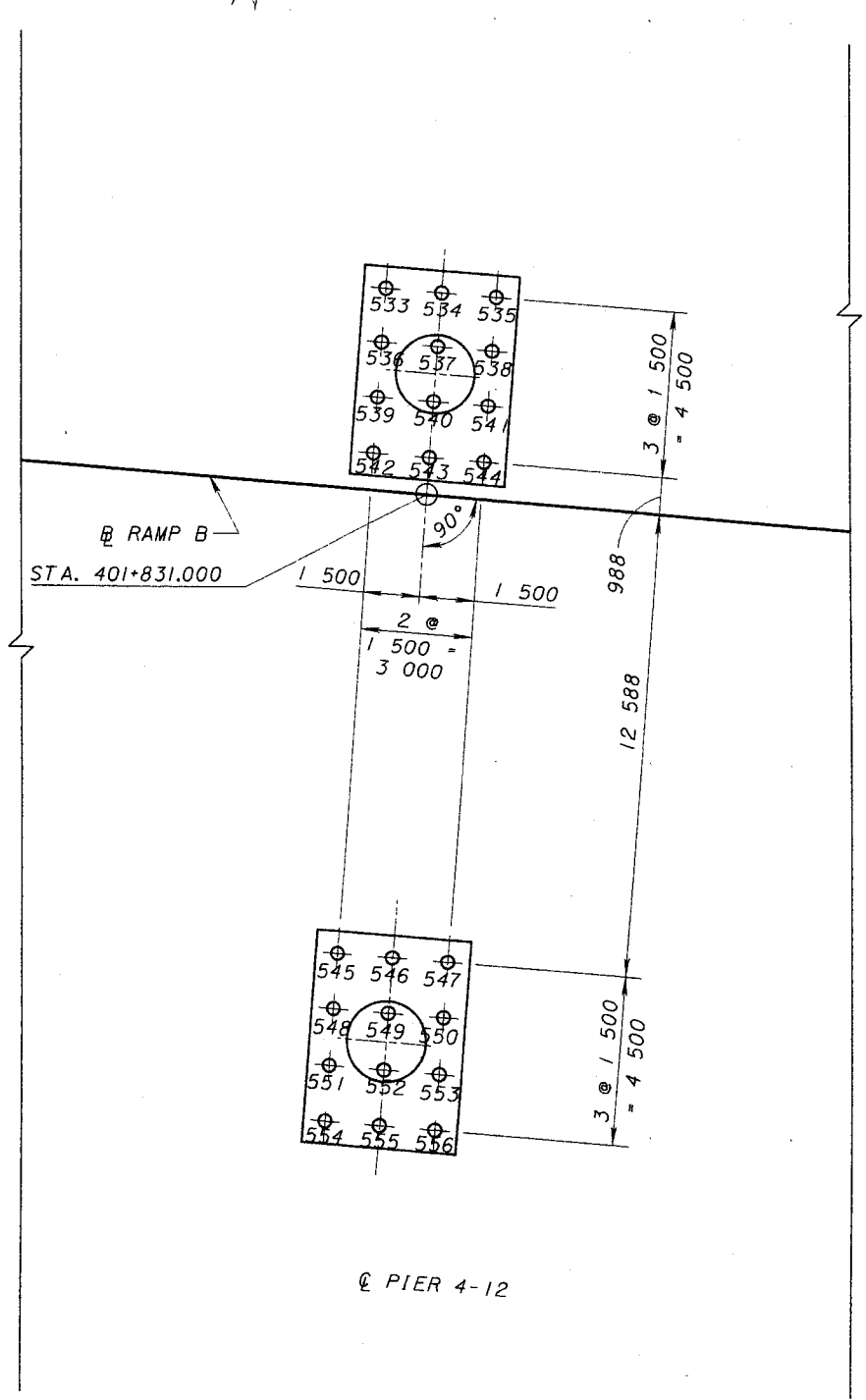
- - 350 mm PIPE, VERTICAL
- ◑ - 350 mm PIPE PILE, BATTER FOUR VERTICAL TO ONE HORIZONTAL IN DIRECTION OF ARROW.



PIER 4-10



PIER 4-11



PIER 4-12

DESIGN AGENCY
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2120

DESIGNED
 EB

CHECKED

DRAWN
 KDB

REVISED

REVIEWED
 DATE

STRUCTURE FILE NUMBER

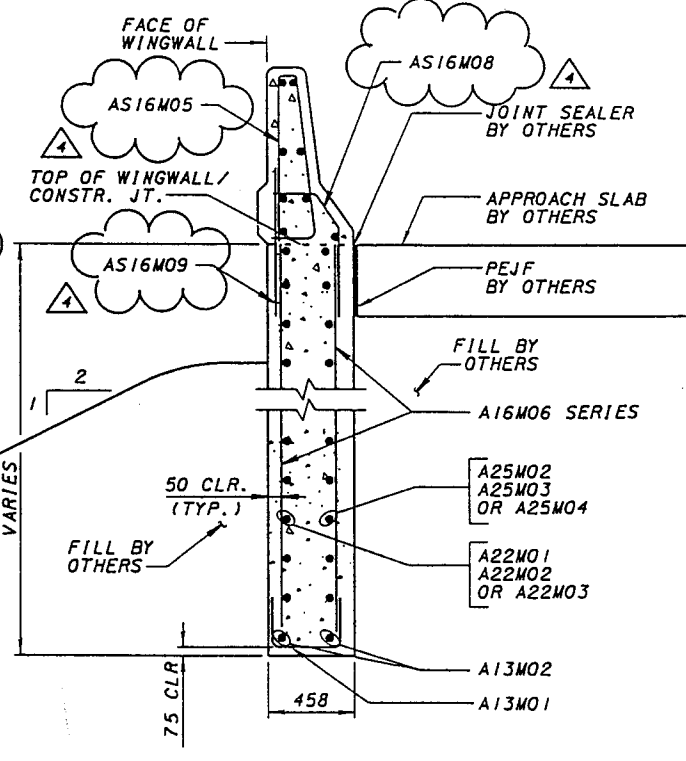
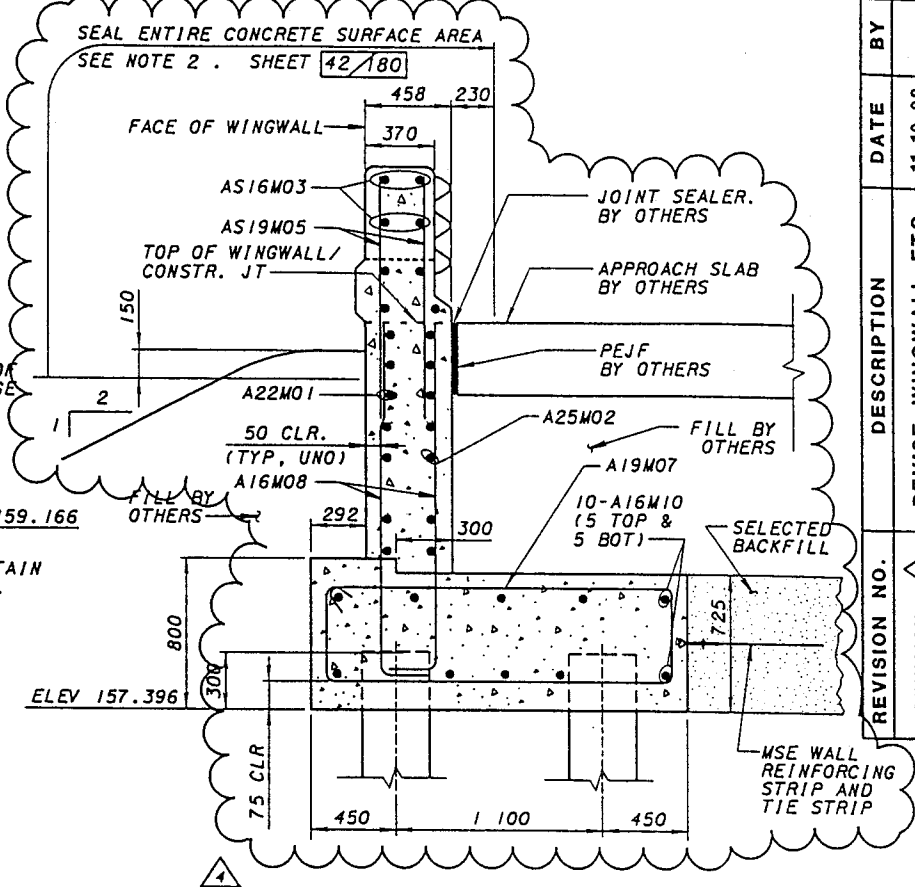
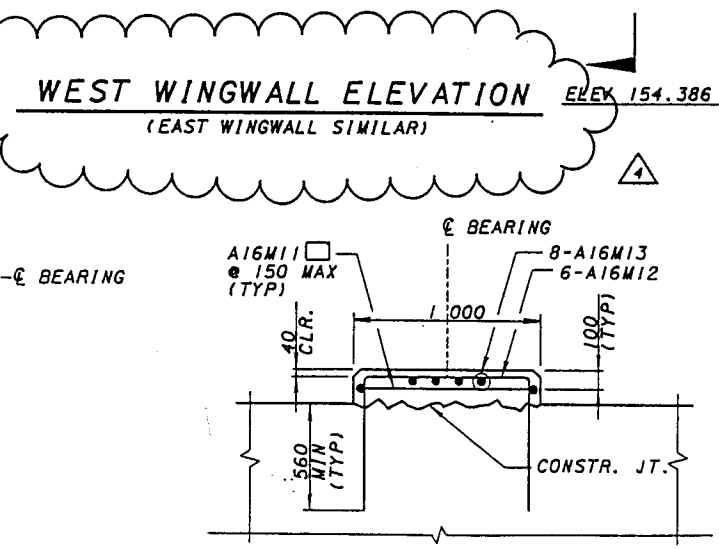
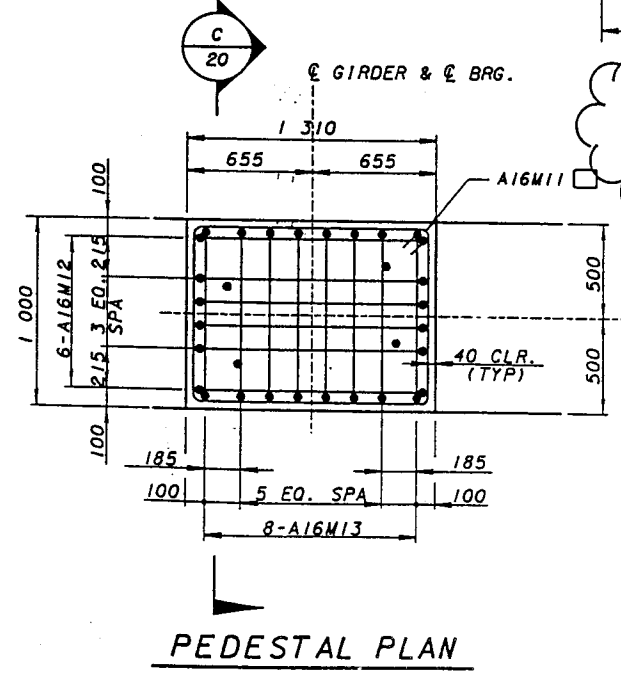
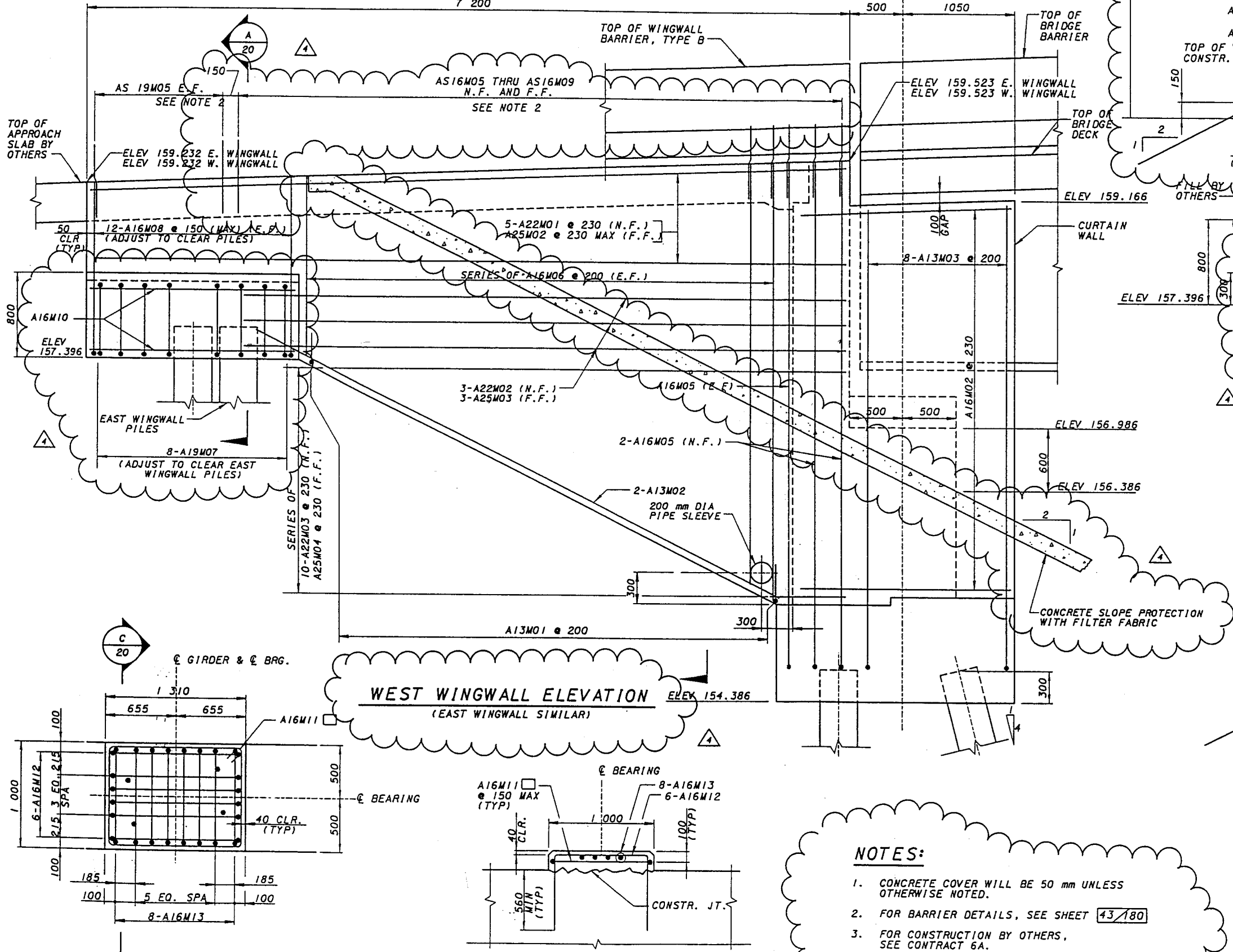
FOUNDATION LAYOUT - 4
 BRIDGE NO. 4

CITY OF CINCINNATI
 CONTRACT No. 75X5753

18/18

70
 232

G:\cadd\p\p\hp\4v\04ab0701.dgn 11/19/99 11:29:00 1999
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NOTES:

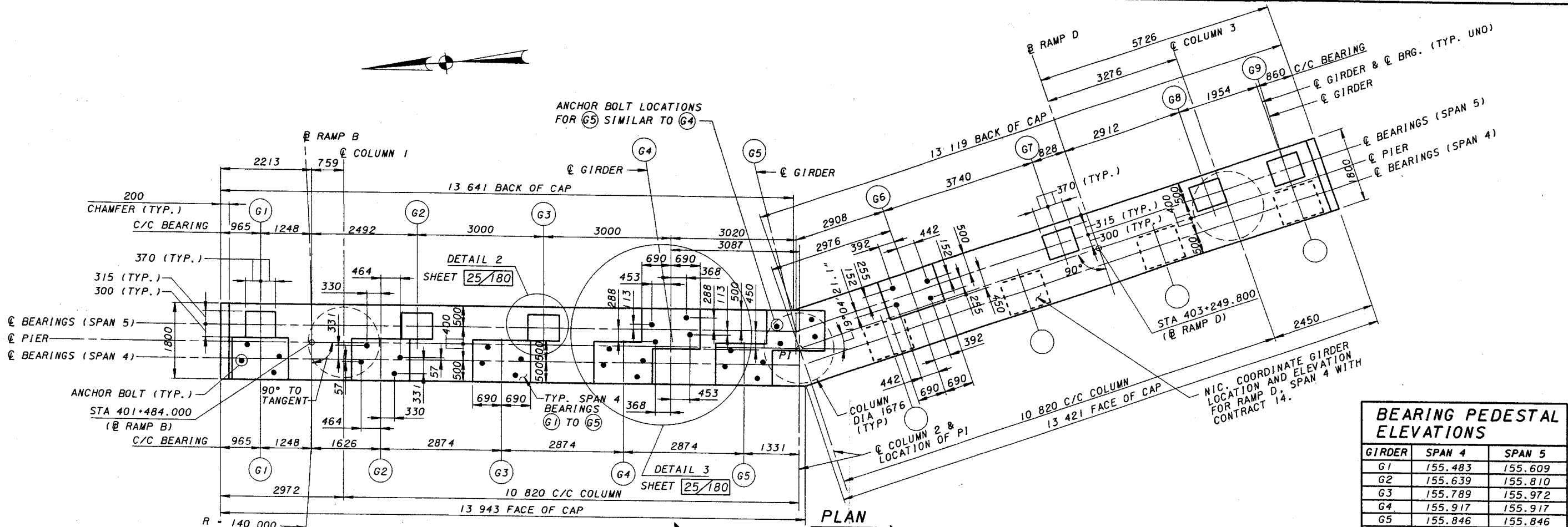
1. CONCRETE COVER WILL BE 50 mm UNLESS OTHERWISE NOTED.
2. FOR BARRIER DETAILS, SEE SHEET 43/180
3. FOR CONSTRUCTION BY OTHERS, SEE CONTRACT 6A.
4. 150 mm CONCRETE SLOPE PROTECTION SHALL BE PER ITEM 601.

REVISION NO.	DESCRIPTION	DATE	BY
4	REVISION WINGWALL FTG	11-19-99	

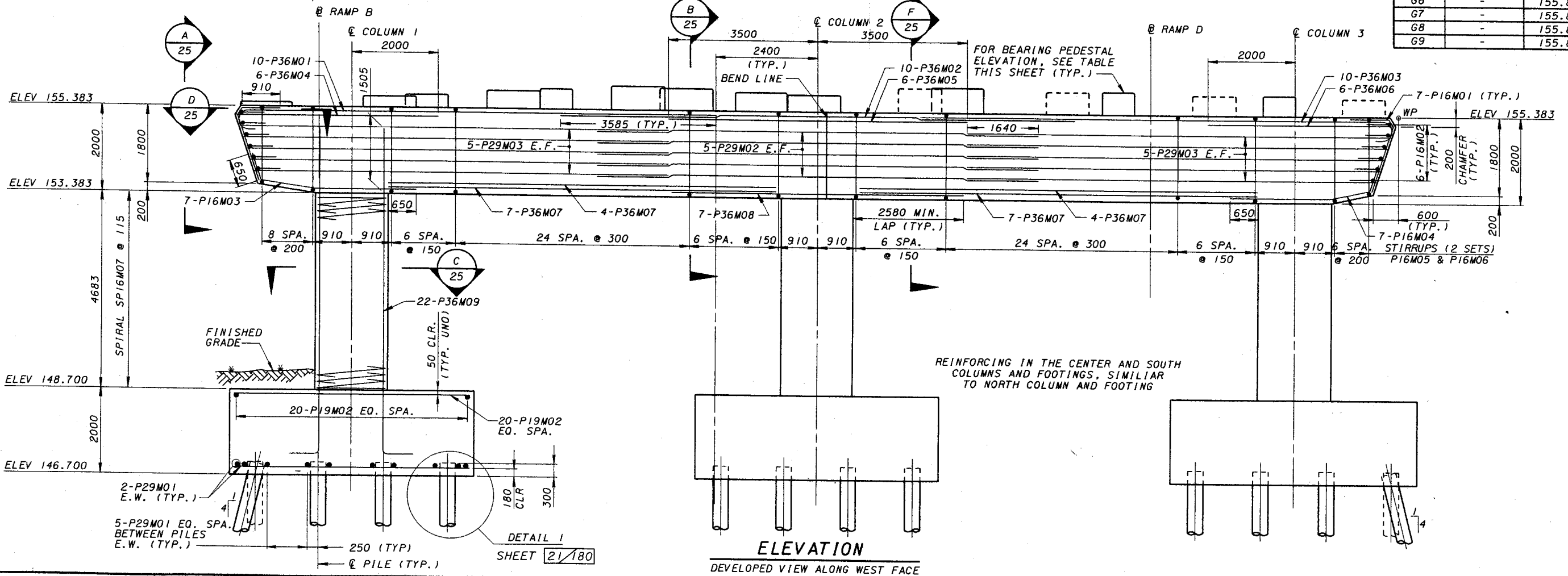
DESIGNED	DATE	DESIGN AGENCY
VJR		PARSONS BRINCKERHOFF, INC.
CHECKED		312 ELM STREET, SUITE 2500
DRAWN		CINCINNATI, OH 45202-2120
BZX		
REVISED		
7107210		

REAR ABUTMENT - WINGWALL	BRIDGE NO. 4	20/180
RAMP B		
CITY OF CINCINNATI	CONTRACT No. 75X5753	72
		232

REVISION NO. 4
NOV. 19, 1999

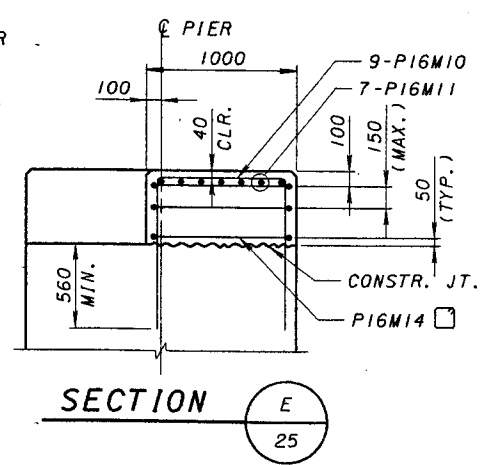
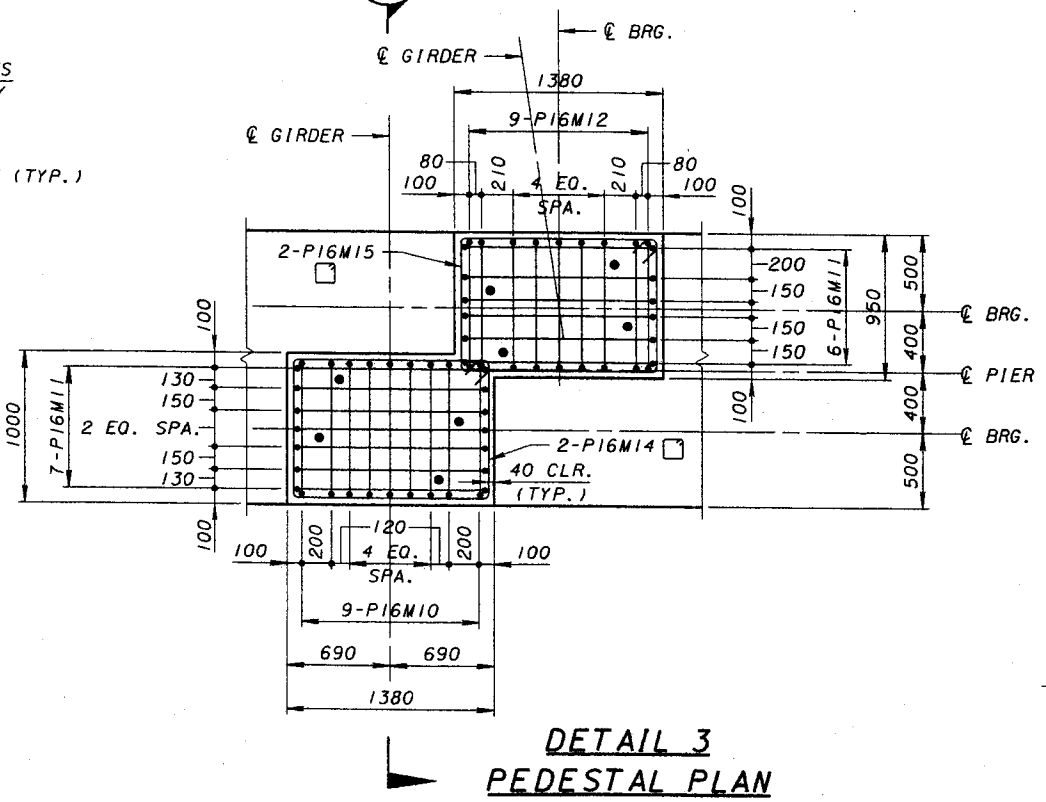
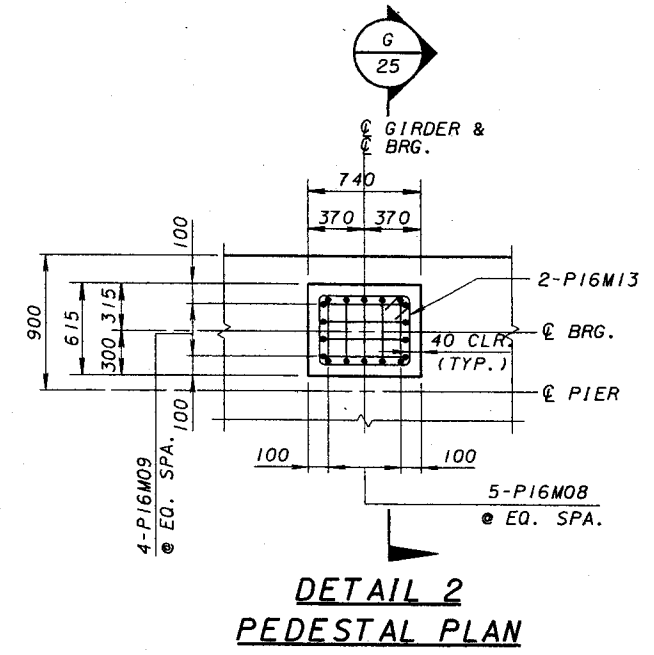
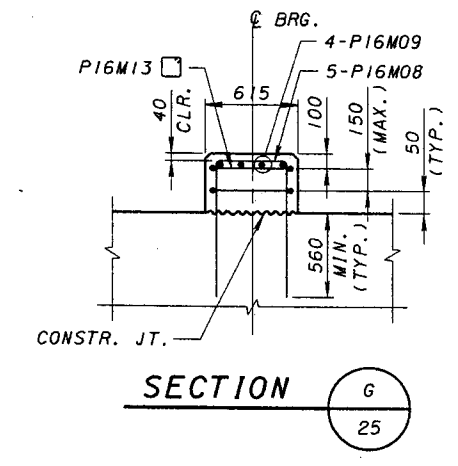
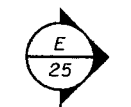
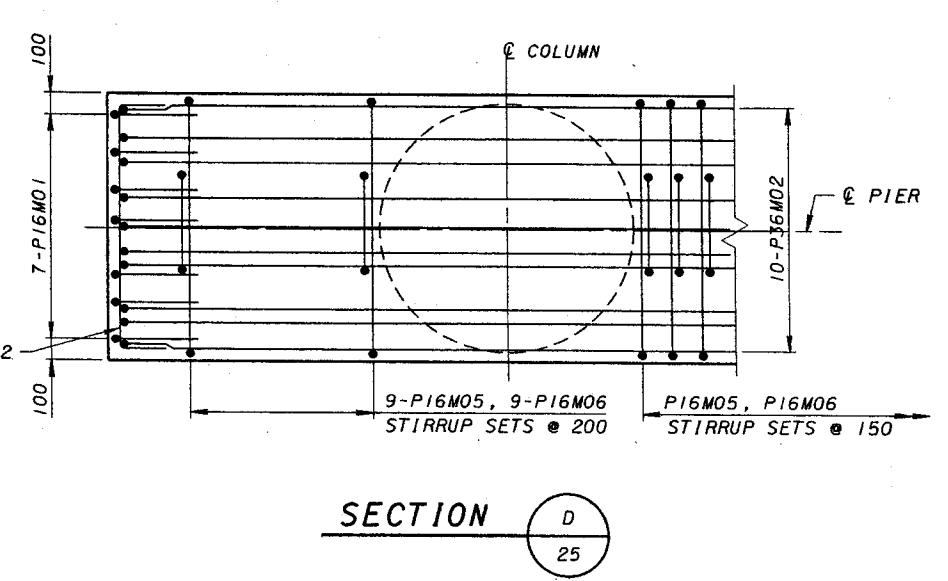
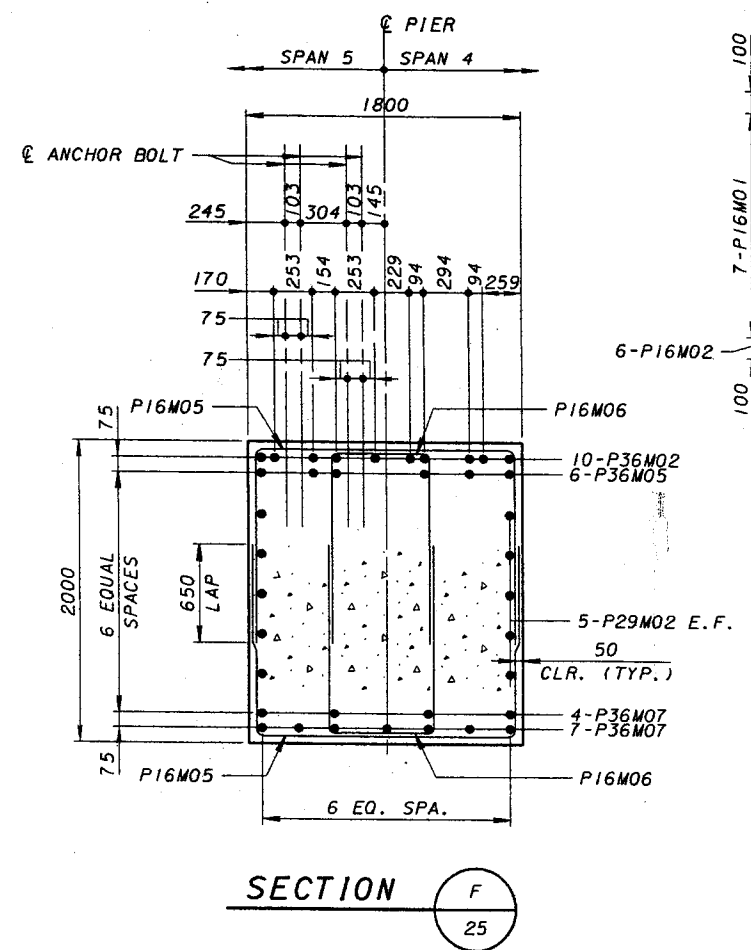
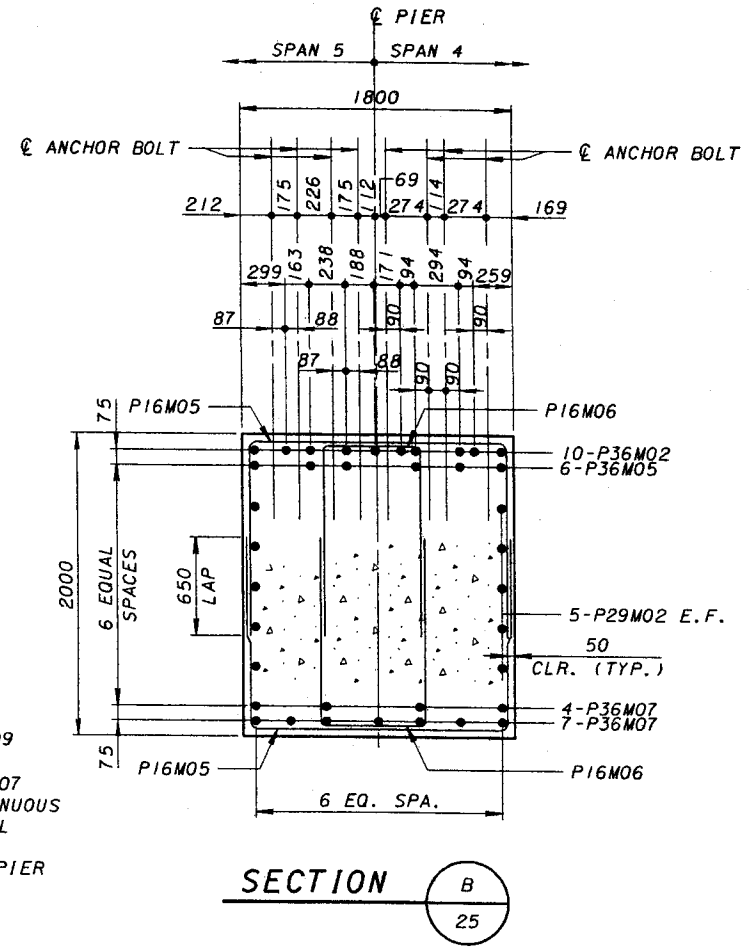
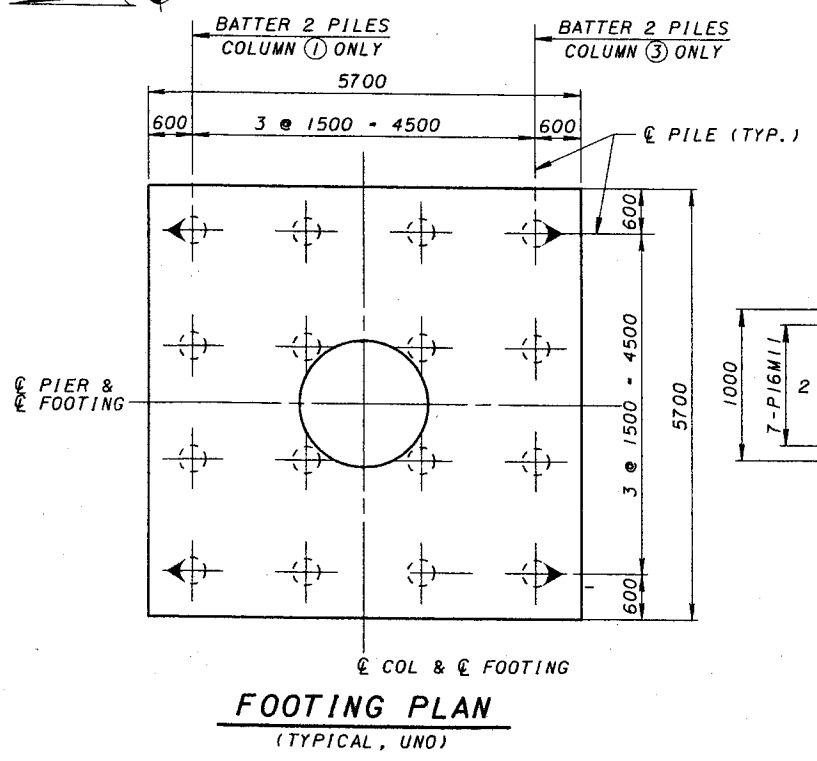
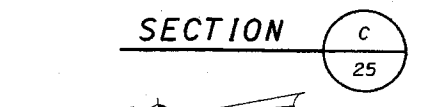
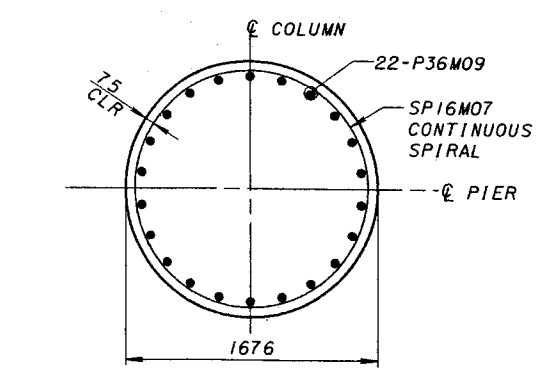
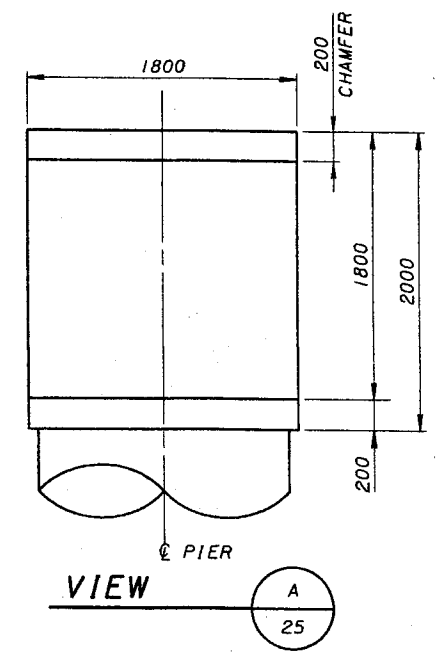


BEARING PEDESTAL ELEVATIONS		
GIRDER	SPAN 4	SPAN 5
G1	155.483	155.609
G2	155.639	155.810
G3	155.789	155.972
G4	155.917	155.917
G5	155.846	155.846
G6	-	155.831
G7	-	155.891
G8	-	155.831
G9	-	155.800



REINFORCING IN THE CENTER AND SOUTH COLUMNS AND FOOTINGS, SIMILAR TO NORTH COLUMN AND FOOTING

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720
 DATE: _____ REVIEWED: _____ DRAWN: BZX CHECKED: AR
 STRUCTURE FILE NUMBER: 3103412
 CITY OF CINCINNATI CONTRACT No. 75X5753
 PIER NO. 4-4 PLAN & ELEVATION BRIDGE NO. 4 RAMPS B & D
 24/180
 76/232



- NOTES:**
- FOR REINFORCING SCHEDULE SEE SHEET 48/180
 - ADJUST PIER CAP REINFORCING TO AVOID COLUMN REINFORCING
 - INDICATES BATTERED 1:4 PILES IN THE DIRECTION OF ARROW
 - ALL PILES ARE STEEL PIPE PILES 350mm DIA. WITH ULTIMATE PILE CAPACITY OF 1512 kN
 - FOR ANCHOR BOLT DETAILS, SEE SHEET 124/180

\$\$\$times\$\$\$
 \$\$\$date\$\$\$
 \$\$\$prfspec\$\$\$
 \$\$\$gnspec\$\$\$

EXPANSION FITTINGS

EXPANSION FITTINGS FOR STEEL CONDUIT SHALL BE OZ TYPE AX-200, CROUSE HINDS TYPE XJ-64, APPLETON TYPE XJ-200-4, OR EQUAL APPROVED BY THE ENGINEER. EACH EXPANSION FITTING SHALL HAVE A COPPER BONDING JUMPER. PAYMENT FOR EXPANSION FITTINGS SHALL BE INCLUDED WITH THE RELATED CONDUIT.

ITEM 202 - DISCONNECT EXISTING CIRCUIT

THIS ITEM OF WORK SHALL CONSIST OF DISCONNECTING AN EXISTING CIRCUIT IN AN EXISTING LIGHT POLE OR AN EXISTING PULL BOX.

DISCONNECTION IN A PULL BOX SHALL CONSIST OF CUTTING CIRCUIT CABLES AND REMOVING SPLICE KITS AND CABLES OF CIRCUITS TO BE ABANDONED. CABLES OF CIRCUITS TO BE REUSED SHALL BE CUT IN SUCH A MANNER THAT SUFFICIENT CABLES REMAIN FOR MAKING RECONNECTION SPLICES.

DISCONNECTIONS IN LIGHT POLES SHALL CONSIST OF REMOVING THE ENDS OF CABLES OF CIRCUITS TO BE ABANDONED. THOSE ENDS OF CONNECTOR KITS FROM WHICH THE ABANDONED CABLES ARE REMOVED SHALL BE PLUGGED AND TAPED SHUT.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR EACH ITEM 202 - DISCONNECT EXISTING CIRCUIT, AND SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED FOR COMPLETING THE WORK SATISFACTORILY.

AN ESTIMATED QUANTITY OF 3 ITEM 202 - DISCONNECT EXISTING CIRCUIT, HAS BEEN INCLUDED IN THE GENERAL SUMMARY.

ITEM 625 - LIGHTING, MISC.; RECONNECT EXISTING CIRCUIT

THIS ITEM SHALL CONSIST OF PROVIDING AND INSTALLING CONDUITS, MOUNTINGS, FITTINGS, JUNCTION BOXES, AND ALL INCIDENTALS NECESSARY TO COMPLETE, READY FOR USE, THE SERVICE TO THE EXISTING LIGHT POLES ON I-75 NORTHBOUND AT THE LOCATION SHOWN IN THE PLAN. IT SHALL INCLUDE PAYMENT FOR ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED. COMPONENT PARTS NOT SPECIFICALLY MENTIONED BUT REQUIRED FOR SATISFACTORY OPERATION OF THIS ITEM SHALL BE FURNISHED AND CONSIDERED PAID FOR AS PART OF THE ITEM.

A LUMP SUM PAYMENT HAS BEEN INCLUDED IN THE GENERAL SUMMARY.

ITEM 625 - LUMINAIRE, MISC.; INDIRECT, RECESSED

LUMINAIRE IS AN ARCHITECTURAL FLOODLIGHT WITH A DIRECT LENS, SYMMETRICAL UPWARD LIGHT DISTRIBUTION, RECESSED WALL MOUNTED FOR INDIRECT LIGHTING. UNIT SHALL UTILIZE A 100 WATT METAL HALIDE LAMP, 277 VOLT -20°F STARTING HIGH POWER FACTOR BALLAST. FINISH SHALL BE BAKED ON POWDER COAT LIGHT GRAY. LUMINAIRE SHALL BE KIM LLF-40/100MH277/LG-P OR EQUAL.

A QUANTITY OF 9, ITEM 625 - LUMINAIRE, MISC.; INDIRECT, RECESSED, HAS BEEN INCLUDED IN THE GENERAL SUMMARY.

ITEM 625 - LIGHTING, MISC.; SERVICE FOR PLUM STREET TUNNEL

THIS ITEM SHALL CONSIST OF PROVIDING COMPLETE ELECTRICAL SERVICE FOR PLUM STREET TUNNEL STARTING WITH THE CONNECTION TO THE PROPOSED 240/480 VOLT SERVICE AT LIGHTING CONTROLLER "14A". LUMINAIRES FOR PLUM STREET TUNNEL ARE NOT INCLUDED FOR PAYMENT IN THIS ITEM.

THE INSTALLATION WORK SHALL INCLUDE CONDUITS, CONDUIT GROUNDING, MOUNTINGS, FITTINGS, JUNCTION BOXES, CABLES AND ALL INCIDENTALS NECESSARY TO COMPLETE, READY FOR USE, THE SERVICE AT THE LOCATIONS SHOWN IN THE PLANS AND ACCORDING TO THE DETAILS. THE CONTRACTOR SHALL USE NO. 10 AWG 5000 VOLT WIRE FOR RUNS LESS THAN 23 METERS AND NO. 8 AWG 5000 VOLT WIRE FOR RUNS GREATER THAN 23 METERS. EMBEDDED CONDUIT SHALL BE 19 mm DIAMETER. THE LUMP SUM BID PRICE FOR ITEM 625 - LIGHTING, MISC.; SERVICE FOR PLUM STREET TUNNEL, SHALL INCLUDE PAYMENT FOR ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED. COMPONENT PARTS NOT SPECIFICALLY MENTIONED BUT REQUIRED FOR SATISFACTORY OPERATION OF THIS ITEM SHALL BE FURNISHED AND CONSIDERED PAID FOR AS PART OF THE ITEM.

713.14 LAMPS

HIGH PRESSURE SODIUM LAMPS SHALL BE GENERAL ELECTRIC "LUCALOX", PHILIPS "CERAMALUX", SYLVANIA "LUMALUX", OR EQUAL APPROVED BY THE ENGINEER.

ELECTRICAL SERVICE FOR ILLUMINATED SIGNS

THE PAY ITEMS IN THE LIGHTING GENERAL SUMMARY INCLUDE THE PULL BOX/ JUNCTION BOX ADJACENT TO EACH LIGHTED SIGN AND THE ELECTRICAL SERVICE CONNECTIONS LEADING INTO THE BOX, INCLUDING CABLE SPLICING KITS IN THE PULL BOX. QUANTITIES FOR ELECTRICAL SERVICE FROM THE CONNECTION IN THE PULL BOX TO THE SIGN ARE INCLUDED IN THE TRAFFIC CONTROL GENERAL SUMMARY.

UNDERPASS LUMINAIRES

UNDERPASS LUMINAIRES SHALL BE HOLLOWPHANE "BANTAM PRISMATITE" OR EQUAL APPROVED BY THE ENGINEER, AND SHALL BE FURNISHED WITH AN INTEGRAL FUSE HOLDER AND 5-AMPERE FUSE. THE INTEGRAL HIGH PRESSURE SODIUM BALLAST SHALL BE OF A REGULATOR TYPE RATED FOR 480 VOLTS, 150 WATTS.

ITEM 625 - SERVICE TO UNDERPASS LIGHTING

THIS ITEM SHALL CONSIST OF PROVIDING COMPLETE ELECTRICAL SERVICE, EXCEPT FOR LUMINAIRES, STRUCTURE GROUNDING, AND PULL BOX FOR THE UNDERPASS LIGHTING SYSTEM.

THE INSTALLATION WORK SHALL INCLUDE CONDUITS, CONDUIT GROUNDING, MOUNTINGS, FITTINGS, JUNCTION BOXES, CABLES AND ALL INCIDENTALS NECESSARY TO COMPLETE, READY FOR USE, THE SERVICE AT THE LOCATIONS SHOWN IN THE PLANS AND ACCORDING TO THE DETAILS. THE CONTRACTOR SHALL USE NO. 10 AWG 5000 VOLT WIRE FOR RUNS LESS THAN 23 METERS AND NO. 8 AWG 5000 VOLT WIRE FOR RUNS GREATER THAN 23 METERS. THE LUMP SUM BID PRICE FOR ITEM 625 - SERVICE TO UNDERPASS LIGHTING, SHALL INCLUDE PAYMENT FOR ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED. COMPONENT PARTS NOT SPECIFICALLY MENTIONED BUT REQUIRED FOR SATISFACTORY OPERATION OF THIS ITEM SHALL BE FURNISHED AND CONSIDERED PAID FOR AS PART OF THE ITEM.

PADLOCKS AND KEYS

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, MASTER NO. 48KA OR WILSON BOHANNAN 660A, OR EQUAL, AS APPROVED BY THE ENGINEER, AND SHALL BE KEYED IN ACCORDANCE WITH SPECIFICATION 631.08, PARAGRAPH 3. PAYMENT SHALL BE INCLUDED IN THE BID ITEM(S) BEING LOCKED.

HIGH VOLTAGE TEST

THIS TEST SHALL BE CONDUCTED ACCORDING TO THE CONSTRUCTION AND MATERIAL SPECIFICATIONS. A LUMP SUM PAYMENT HAS BEEN INCLUDED IN THE GENERAL SUMMARY.

POWER SERVICE, AS PER PLAN

POWER SERVICE EQUIPMENT SHALL BE INSTALLED AS SPECIFIED IN THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS AND ON STANDARD CONSTRUCTION DRAWING HI-40.10M.

SERVICE SHALL BE 240/480 VOLT, 3-WIRE, GROUNDED NEUTRAL. CONTROL CENTERS SHALL BE SINGLE ENCLOSURE TYPE SC XX WITH DISTRIBUTION PANEL FOR TERMINATING MULTIPLE CIRCUIT CONDUCTORS. EACH ENCLOSURE SHALL BE CONNECTED TO ITS ASSOCIATED PULL BOX WITH 76 mm CONDUIT. A PHOTO ELECTRIC CELL SHALL BE PROVIDED FOR EACH CONTROL CENTER. MOUNT PHOTOCCELL ON TOP OF NEARBY LIGHT POLE WHICH IS LOCATED IN OPEN AIR WITH NO SHADOWING OR STRAY LIGHT AIMED AT IT. RATINGS OF CONTROLLERS SHALL BE IN ACCORDANCE WITH POWER SERVICE DATA TABLE. PROVIDE STEP-UP TRANSFORMER, SIZE AS INDICATED IN POWER SERVICE DATA TABLE, TO CONVERT 208 VOLT PRIMARY VOLTAGE TO THE INDICATED SECONDARY VOLTAGE. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING SERVICE FROM NEAREST C.G.&E. SOURCE.

UPON COMPLETION OF THE PROJECT, THE ENERGY ACCOUNT SHALL BE PAID CURRENT AND THE ACCOUNT TRANSFERRED TO THE MAINTAINING AGENCY SPECIFIED IN THE CONTROL CENTER SCHEDULE. IN ADDITION TO THE REQUIREMENTS OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF ALL CHARGES MADE BY THE POWER COMPANY FOR THE ESTABLISHMENT OF ELECTRICAL SERVICE AT EACH POINT SPECIFIED IN THE PLANS.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

CINCINNATI GAS & ELECTRIC COMPANY
 FOURTH AND MAIN STREETS, P.O. BOX 960
 CINCINNATI, OHIO 45201
 (513) 287-1366

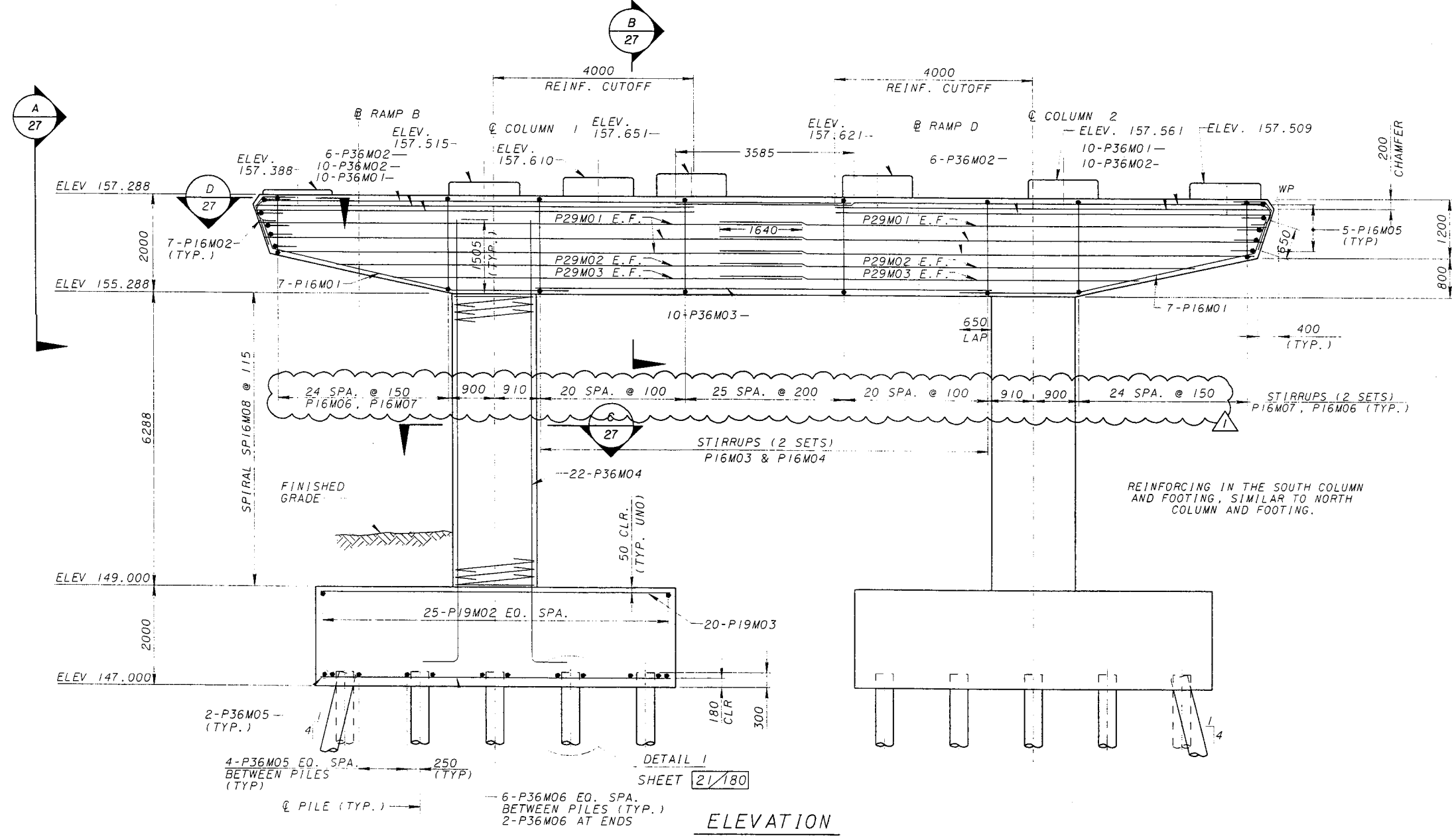
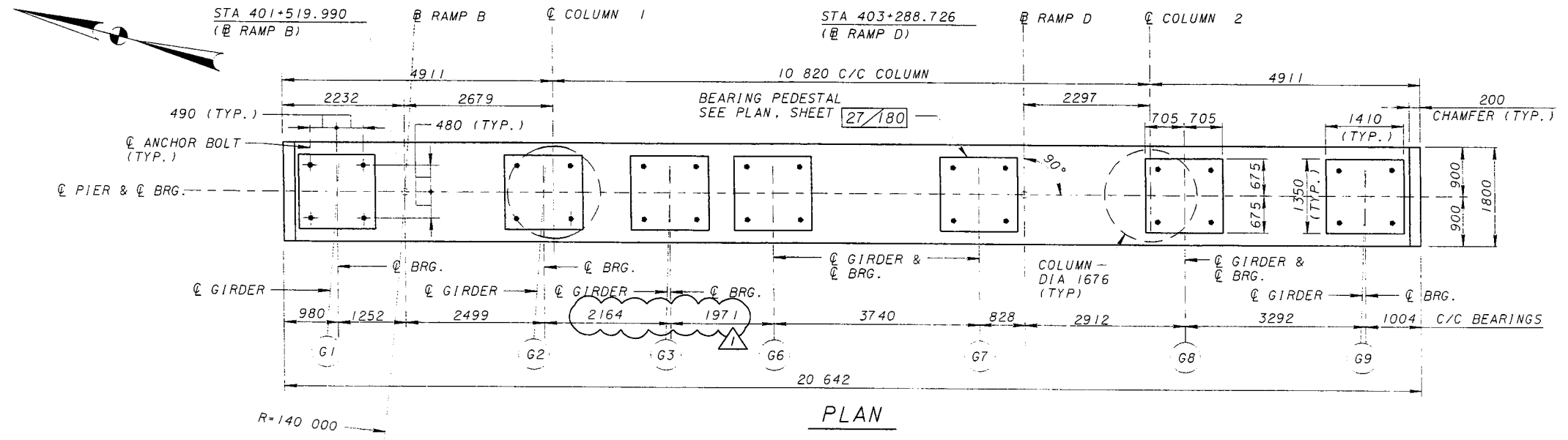
PAYMENT SHALL BE MADE FOR "ITEM 625 - POWER SERVICE, AS PER PLAN", INSTALLED AS DESCRIBED ABOVE AND SHALL INCLUDE ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THE JOB IN A SATISFACTORY WORKMAN-LIKE MANNER.

LUMINAIRES

IN ADDITION TO THE REQUIREMENTS OF THE DEPARTMENT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LUMINAIRES SHALL BE AS FOLLOWS:

LOW PROFILE, CUT-OFF, FLAT GLASS, IES DISTRIBUTION TYPE III, AS MANUFACTURED BY AMERICAN ELECTRIC, MODEL NO. 153-06643-AJ, TEST #AE38191, OR EQUAL AS APPROVED BY THE ENGINEER. THE INTEGRAL HIGH PRESSURE SODIUM BALLAST SHALL BE OF A REGULATOR TYPE RATED FOR 480 VOLTS, 400 WATTS. HOUSING FINISH SHALL BE A BAKED ON POWDER COAT PROCESS WITH A MINIMUM THICKNESS OF 6 MILS, CUSTOM COLOR AS DIRECTED BY THE ENGINEER.

CONVENTIONAL, STYLE B, TYPE III, 310 WATT HIGH PRESSURE SODIUM, 480 VOLT; AMERICAN ELECTRIC SERIES 125/126, TEST #AE38461; GENERAL ELECTRIC M400-R2, TEST #6E7318; OR EQUAL AS APPROVED BY THE ENGINEER.



REVISION NO.	DESCRIPTION	DATE	BY
		7-12-99	AR
ADDENDUM	REVISED PIER DETAILS	REVIEWED	DATE
		OD	
		BZX	
		JWM	
PIER NO. 4-5 PLAN & ELEVATION		STRUCTURE FILE NUMBER	3103412
BRIDGE NO. 4		DESIGN AGENCY	PARSONS BRINCKERHOFF, INC.
RAMPS B & D			312 ELM STREET, SUITE 2500
			CINCINNATI, OH 45202-2720
CITY OF CINCINNATI		26/180	
CONTRACT No. 75X5753		78	
		232	

ADDENDUM NO. 1
JULY 12, 1999

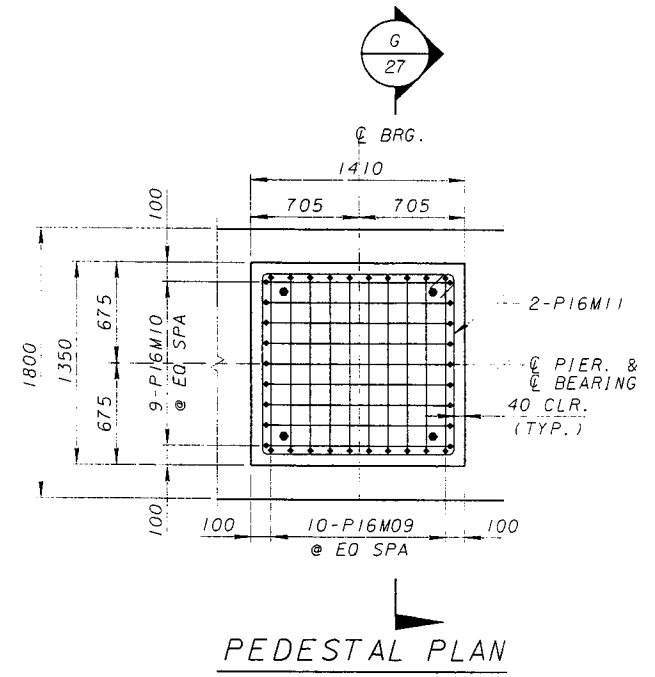
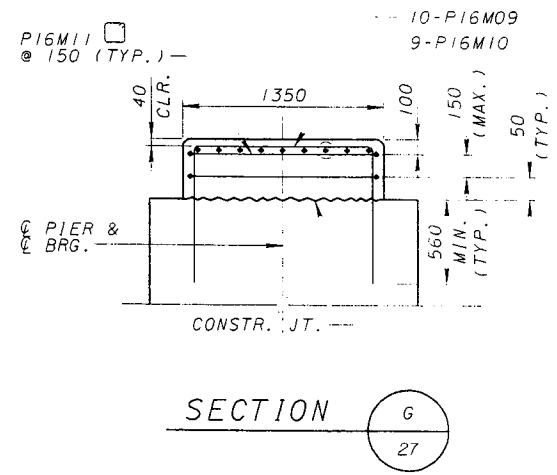
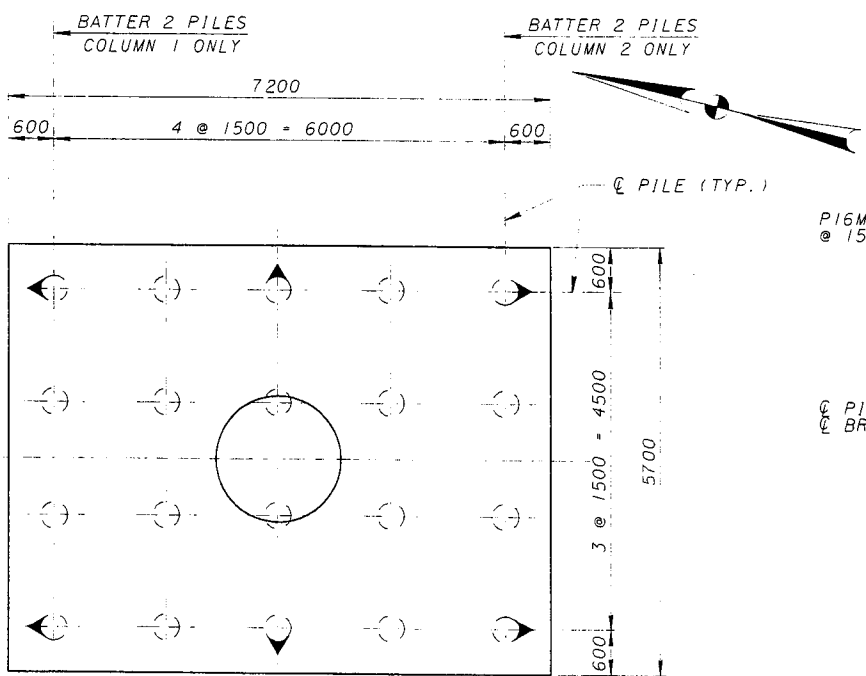
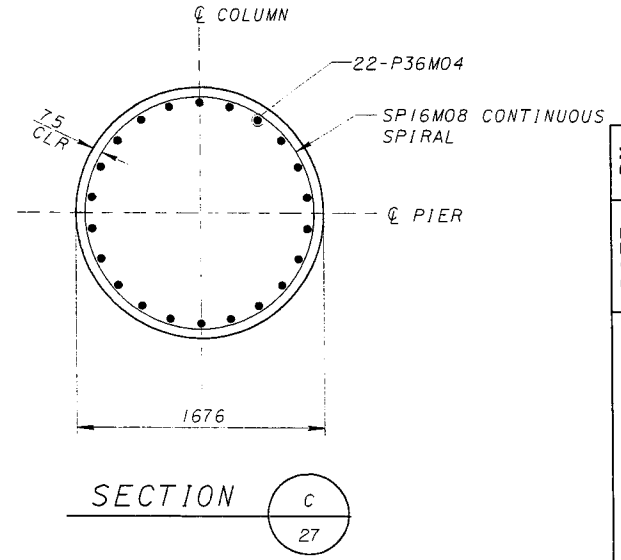
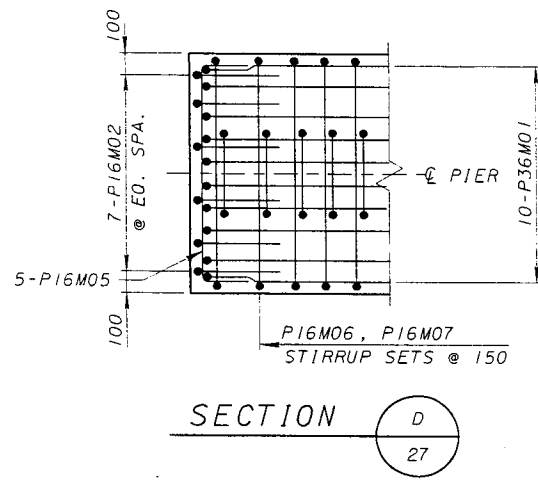
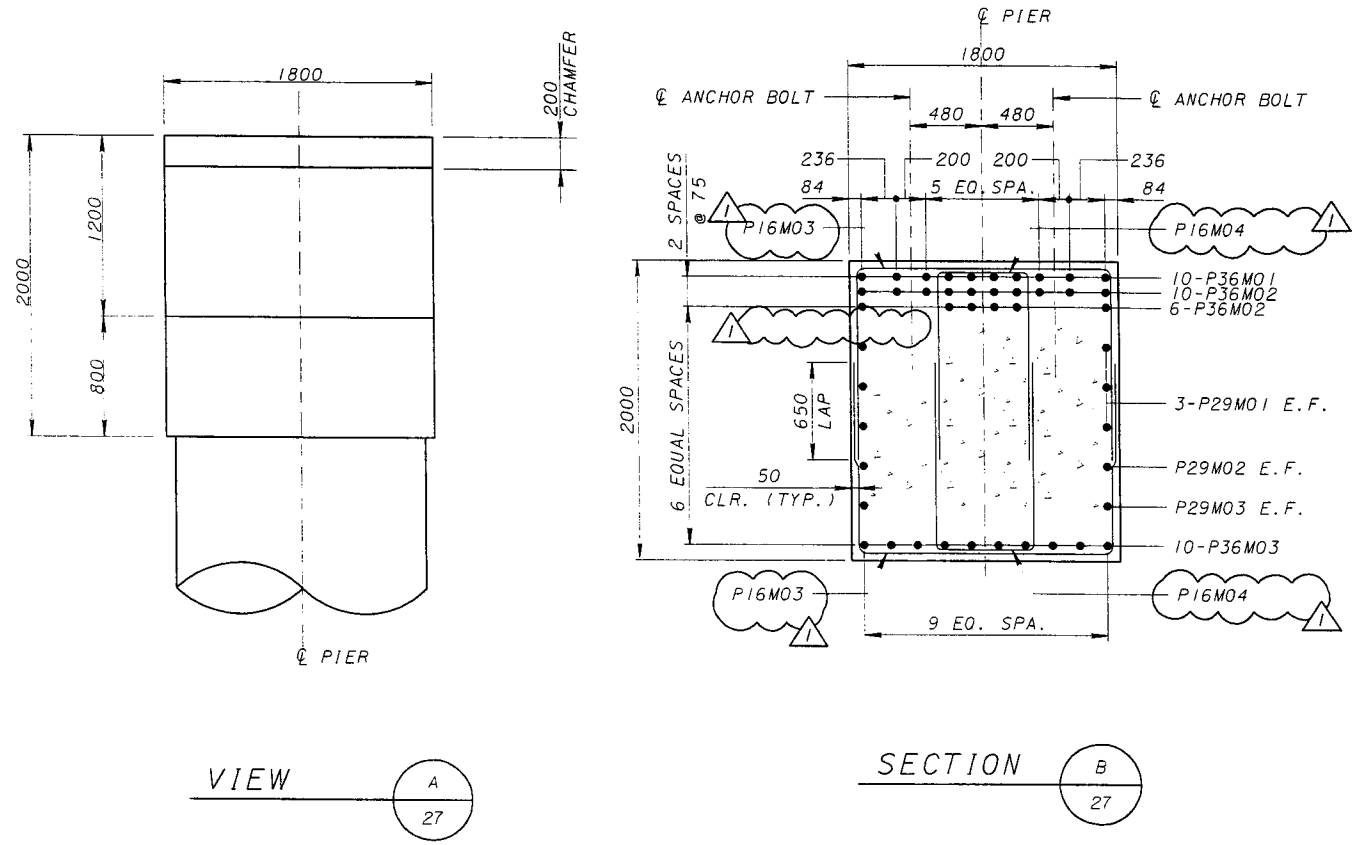
SHEET NUMBER										ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
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							3			625	00500	68	EACH	CONNECTOR KIT, TYPE II	
								42	26	625	01500	90	EACH	CABLE SPLICING KIT	
								63	27	625	10500	26	EACH	LIGHT POLE, MISC.; DESIGN A1.0BII.2, AS PER PLAN	11
								15	11	625	10500	2	EACH	LIGHT POLE, MISC.; DESIGN ST1.0BII.7, AS PER PLAN	11
									2	625	10500	4	EACH	LIGHT POLE, MISC.; DESIGN A3.0BII.2	
								4		625	10500	2	EACH	LIGHT POLE, MISC.; DESIGN ST5.5BII.7	
								2		625	10600	120	EACH	LIGHT POLE ANCHOR L-BOLTS	
								76	44	625	14100	4	EACH	LIGHT POLE FOUNDATION, 610 mm X 2.1 m DEEP	
								2	2	625	23000	6546	METER	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE	
								3648	2898	625	23400	942	METER	NO. 10 AWG POLE AND BRACKET CABLE	
								591	351	625	25400	1576	METER	CONDUIT, 51 mm, 713.04	
								960	616	625	25500	202	METER	CONDUIT, 76 mm, 713.04	
								120	82	625	26250	28	EACH	LUMINAIRE, CONVENTIONAL, TYPE III, 400 WATT HPS, 480 VOLT	
								15	13	625	26250	6	EACH	LUMINAIRE, CONVENTIONAL, STYLE B, TYPE III, 310 WATT HPS, 480 VOLT	
								6		625	27500	19	EACH	LUMINAIRE, UNDERPASS, 150 WATT HPS, 713J3, 480 VOLT	
									19	625	29002	242	METER	TRENCH, 0.6 m DEEP	
								150	92	625	29920	52	EACH	STRUCTURE JUNCTION BOX	
								33	19	625	30706	11	EACH	PULL BOX, 713.08, 600 mm	
								7	4	625	32000	4	EACH	GROUND ROD	
								2	2	625	33000	8	EACH	STRUCTURE GROUNDING SYSTEM	
								6	2	625	34001	2	EACH	POWER SERVICE, AS PER PLAN	2
								2		LUMP	625	37000	LUMP	SERVICE TO UNDERPASS LIGHTING	2
										LUMP	625	38000	LUMP	HIGH VOLTAGE TEST	2
										LUMP	625	98200	LUMP	LIGHTING, MISC.; SERVICE FOR PLUM STREET TUNNEL	2
										LUMP	625	98200	LUMP	LIGHTING, MISC.; RECONNECT EXISTING CIRCUIT	2

LIGHTING GENERAL SUMMARY

CITY OF CINCINNATI
CONTRACT NO. 75X5753

REVISION	DATE
ODOT/CITY OF CINCINNATI RE-CIRCUITING	12-22-99

3 78 588



- NOTES:**
1. FOR REINFORCING SCHEDULE SEE SHEET 49/180
 2. ADJUST PIER CAP REINFORCING TO AVOID COLUMN REINFORCING
 3. INDICATES BATTERED 1:4 PILES IN THE DIRECTION OF ARROW
 4. ALL PILES ARE STEEL PIPE PILES 350mm DIA. WITH ULTIMATE PILE CAPACITY OF 1512 kN
 5. FOR ANCHOR BOLT DETAILS, SEE SHEET 123/180

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM	REVISED PIER DETAILS	7-12-99	AR
		REVIEWED	DATE
		DRAWN	DATE
		CHECKED	DATE
		DESIGNED	DATE
		STRUCTURE FILE NUMBER	3103412

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET - SUITE 2500
 CINCINNATI, OH 45202-2720

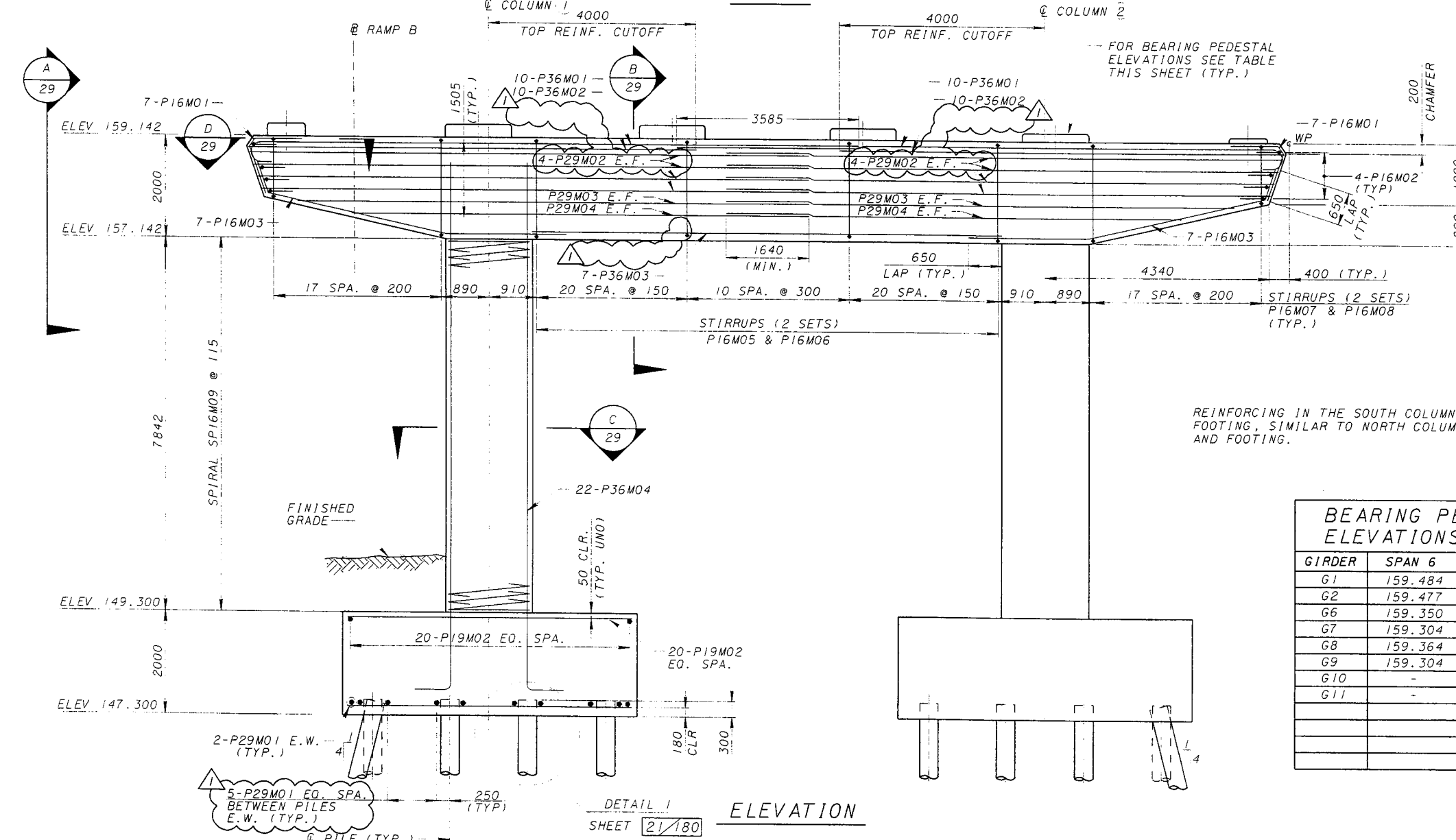
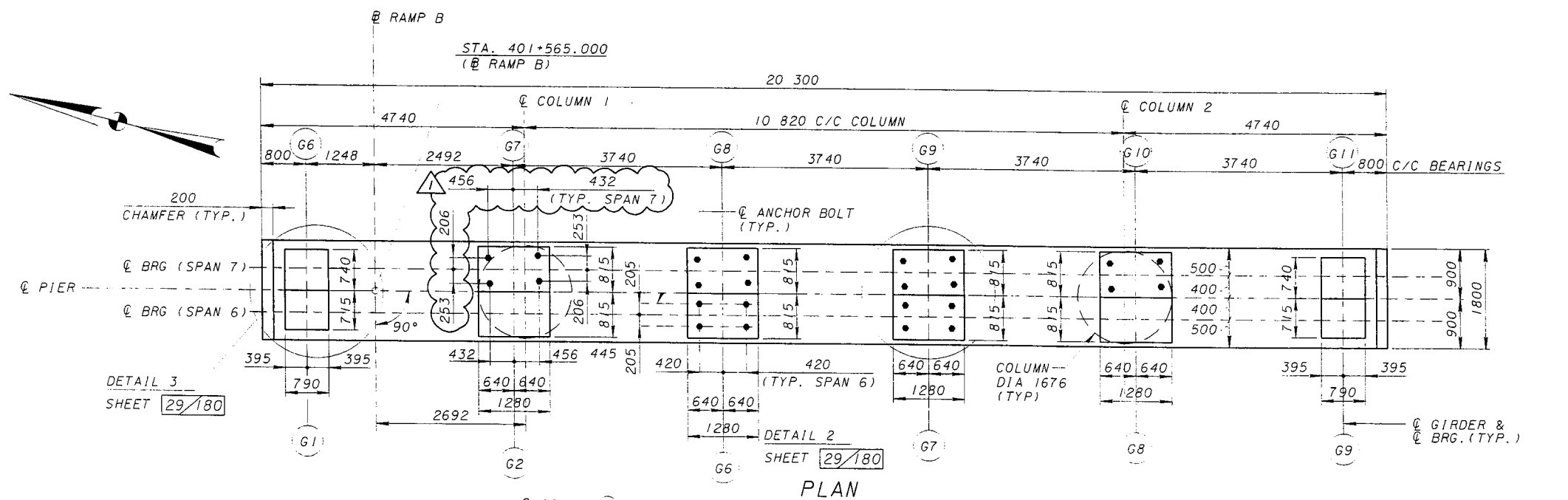
PIER NO. 4-5 DETAILS
 BRIDGE NO. 4
 RAMPS B & D

CITY OF CINCINNATI
 CONTRACT No. 75X5753

27/180

ADDENDUM NO. 1
 JULY 12, 1999

79
 232



BEARING PEDESTAL ELEVATIONS		
GIRDER	SPAN 6	SPAN 7
G1	159.484	-
G2	159.477	-
G6	159.350	159.485
G7	159.304	159.357
G8	159.364	159.348
G9	159.304	159.302
G10	-	159.242
G11	-	159.302

REVISION NO.	ADDENDUM	DESCRIPTION	DATE	BY
			7-12-99	AR
		REVISION	DATE	
		DESIGNED	3/10/92	
		CHECKED		
		APPROVED		

PIER NO. 4-6 PLAN & ELEVATION
BRIDGE NO. 4
RAMP B

CITY OF CINCINNATI
CONTRACT No. 75X5753

28/180

80
232

ADDENDUM NO. 1
JULY 12, 1999

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

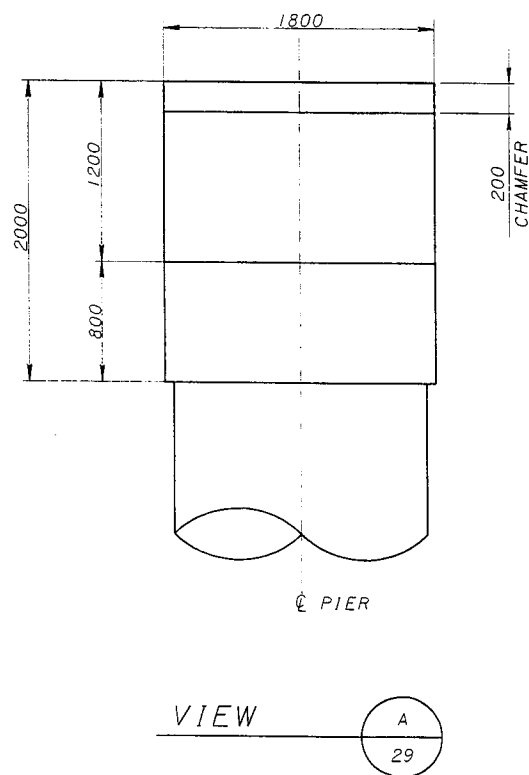
REFERENCE NO.	SHEET NO.	SIDE	ROADWAY	STATION TO STATION	625																	
					LIGHT POLE, MISC. DESIGN A1.0B11.2, AS PER PLAN	LIGHT POLE, MISC. DESIGN ST1.0B11.7, AS PER PLAN	LUMINAIRE, CONVENTIONAL TYPE II, 400 WATT HPS, 480 VOLT	LUMINAIRE, UNDERPASS 150 WATT HPS, T13J3, 480 VOLT	LIGHT POLE FOUNDATION, 610 mm X 2.4 m DEEP	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE	TRENCH, 0.6 m DEEP	CONDUIT, 51 mm, T13.04	CONDUIT, 76 mm, T13.04	PULL BOX, T13.08, 600 mm	CABLE SPLICING KIT	NO. 10 AWG POLE AND BRACKET CABLE	CONNECTOR KIT, TYPE II	GROUND ROD	STRUCTURE GROUNDING SYSTEM	LIGHT POLE ANCHOR L-BOLTS	STRUCTURE, JUNCTION BOX	
					EACH	EACH	EACH	EACH	EACH	METER	METER	METER	METER	EACH	EACH	METER	EACH	EACH	EACH	EACH	EACH	
41	8	RT.	RAMP F	405+108 TO 405+154	1					147		46				27	2			4	1	
42	8	RT.	RAMP F	405+154 TO 405+195						132		41		3								
43	8	RT.	RAMP F	405+195 TO 405+210	1		1			54		15				27	2			4	1	
44	8	RT.	RAMP F	405+210 TO 405+260	1		1			159		50				27	2			4	1	
45	8	RT.	RAMP F	405+260 TO 405+278						63	10	18		1	3					4	1	
46	8	RT.	RAMP F	405+278 TO 405+310																		
47	6	RT.	RAMP F	405+310 TO 405+360		1	1		1	105	32		32			27	2	1				
48	8	RT.	I-71 SB	411+016 TO 411+036		1	1		1	159	50		50			27	2	1				
49	8	RT.	I-71 SB	411+036 TO 411+079							20			3							1	
50	8	—	I-71 SB	411+079 TO 411+073	1		1			66		19		3		27	2		1		1	
51	8	LT.	I-71 SB	411+079 TO 411+123	1		1			141		44								4	1	
52	8	LT.	I-71 SB	411+123 TO 411+173	1		1			159		50		3		27	2			4	1	
53	8	LT.	I-71 SB	411+173 TO 411+221	1		1			153		48				27	2			4	1	
59	8	—	—	411+221 (I-71 SB) TO 404+340 (RAMP E)						120		37		3							1	
60	8	RT.	RAMP E	POWER SERVICE "6A" TO 404+360	1		1			801		33				27	2			4	1	
61	8	RT.	—	404+360 (RAMP E) TO 411+281 (I-71 SB)						93		28		3							1	
62	8	RT.	I-71 SB	411+281 TO 411+300	1		1			66		19				27	2			4	1	
63	7	RT.	I-71 SB	411+300 TO 411+350	1		1			159		50				27	2			4	1	
64	7	RT.	I-71 SB	411+350 TO 411+400	1		1			159		50				27	2			4	1	
65	7	RT.	I-71 SB	411+400 TO 411+405						24		5		3							1	
66	10	—	—	I-71 SB																		
67	10	—	—	CIRCUIT 14A2																		
TOTALS CARRIED TO GENERAL SUMMARY					11	2	13	19	2	2898	92	616	82	4	27	351	26	2	1	44	19	

LIGHTING SUBSUMMARY

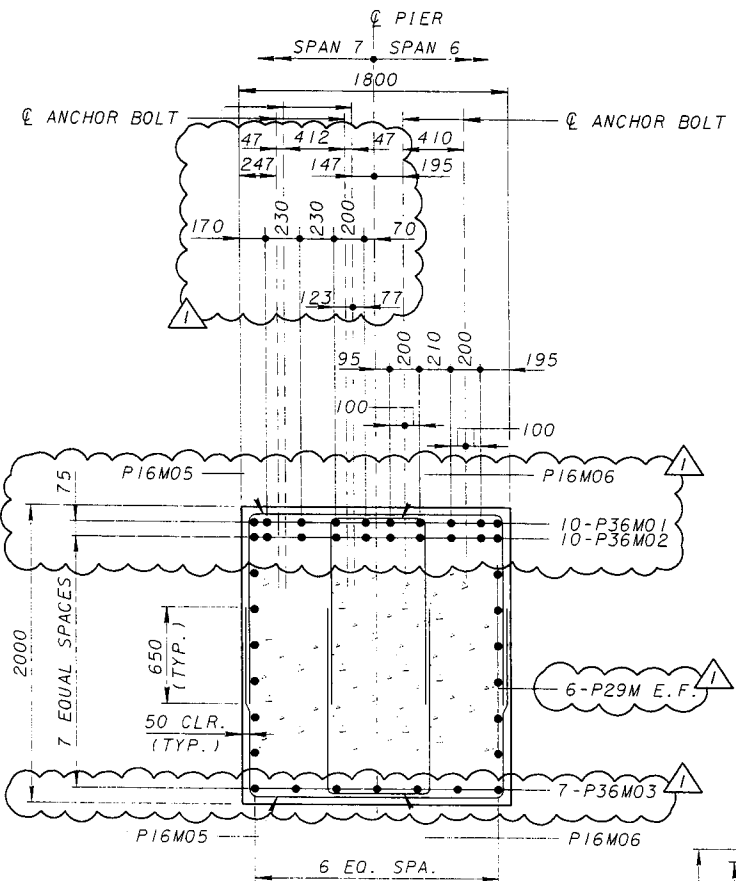
CITY OF CINCINNATI
CONTRACT NO. 75X5753

REVISION	DATE
ODOT/CITY OF CINCINNATI RECIRCUITING	12-22-99

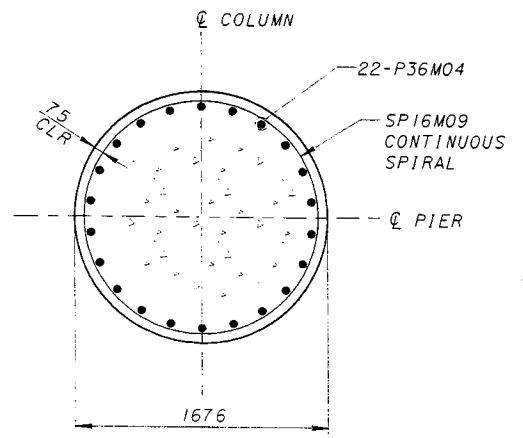
5/80
588



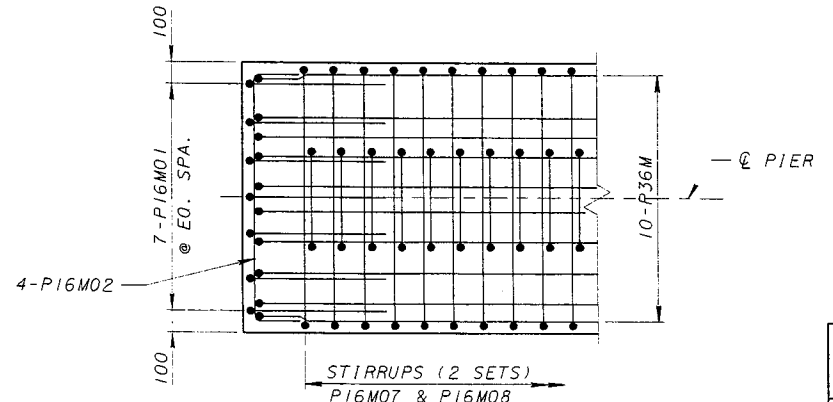
VIEW A
29



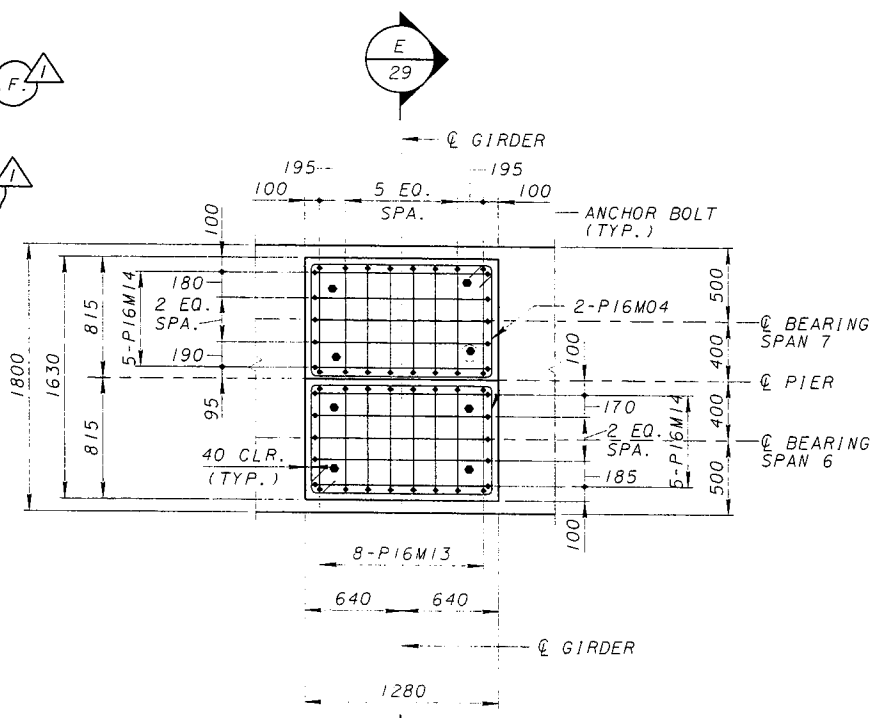
SECTION B
29



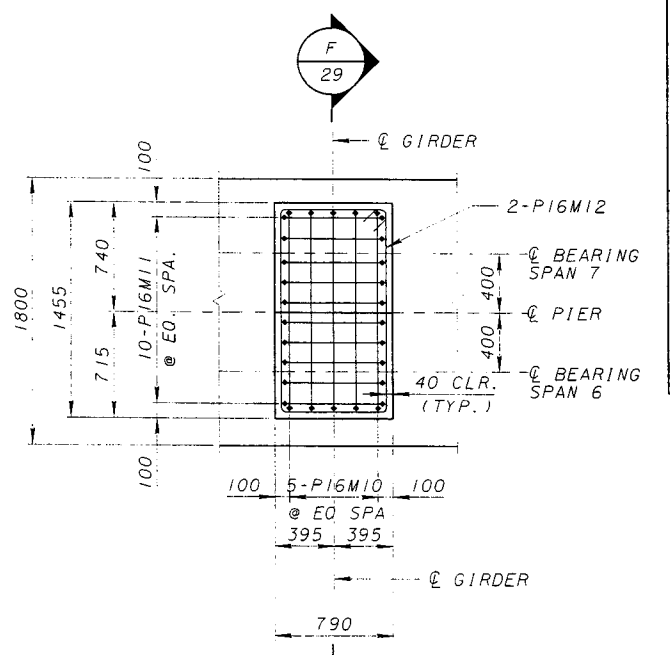
SECTION C
29



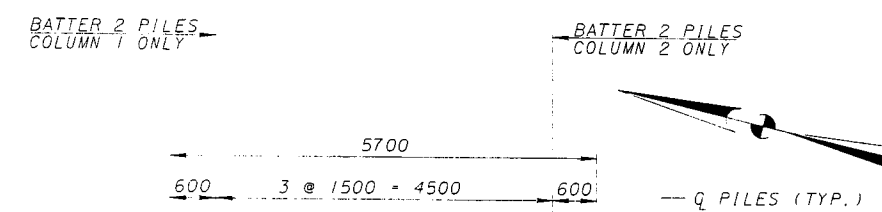
SECTION D
29



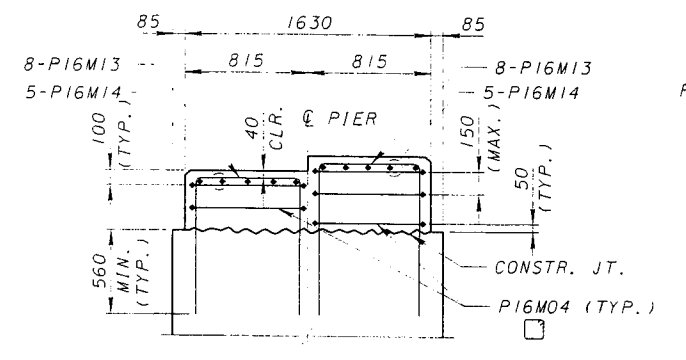
DETAIL 2
PEDESTAL PLAN



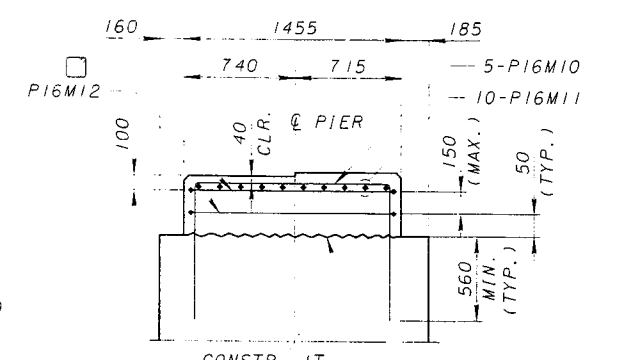
DETAIL 3
PEDESTAL PLAN



FOOTING PLAN
(TYPICAL, UNO)



SECTION E
29



SECTION F
29

- NOTES:**
- FOR REINFORCING SCHEDULE SEE SHEET 50/180
 - ADJUST PIER CAP REINFORCING TO AVOID COLUMN REINFORCING
 - ALL PILES ARE STEEL PIPE PILES 350mm DIA. WITH ULTIMATE PILE CAPACITY OF 1512 kN.
 - FOR ANCHOR BOLT DETAILS, SEE SHEET 24/180
 - INDICATES BATTERED 1:4 PILES IN THE DIRECTION OF ARROW

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM A	REVISED PIER DETAILS	7-12-99	AR
	DESIGNED BY	DATE	
	CHECKED BY	DATE	
	APPROVED BY	DATE	

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

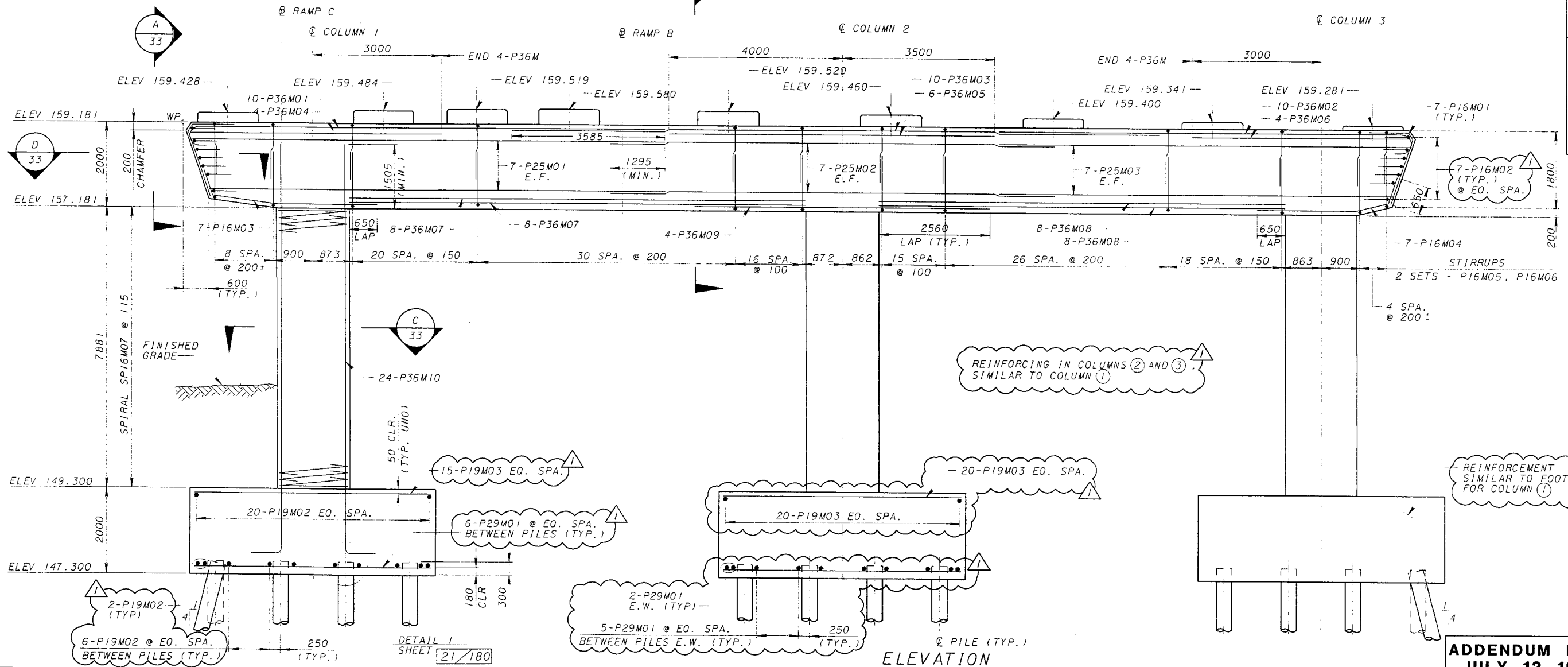
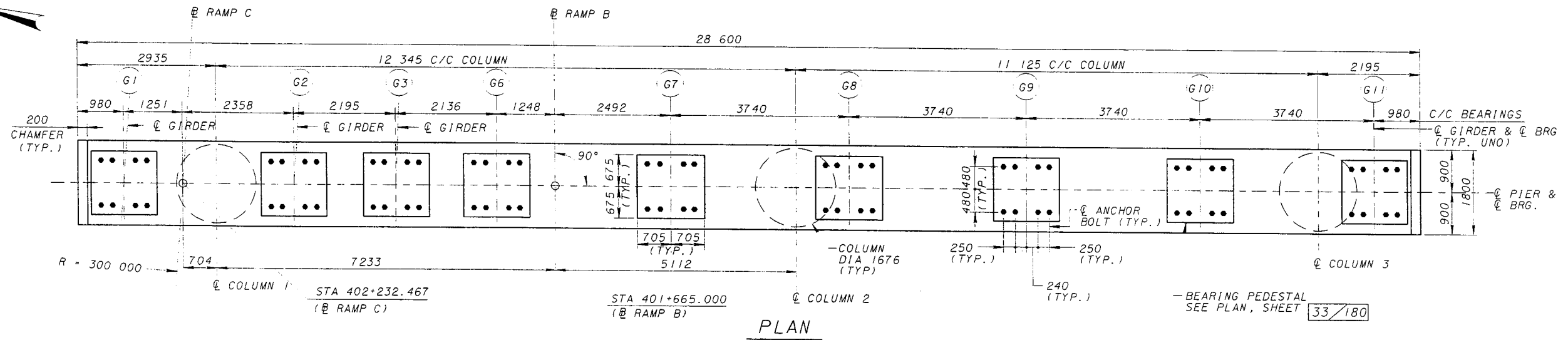
PIER NO. 4-6 DETAILS
BRIDGE NO. 4
RAMP B

CITY OF CINCINNATI
CONTRACT NO. 75X5753

29/180

ADDENDUM NO. 1
JULY 12, 1999

81
232



REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISED PIER DETAILS	7-12-99	AR
	DESIGNED BY	DATE	
	DRAWN BY	REVIEWED	
	CHECKED	DATE	
	APPROVED		

DESIGN AGENCY
PB
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2120

PIER NO. 4-8 PLAN & ELEVATION
 BRIDGE NO. 4
 RAMPS B & C

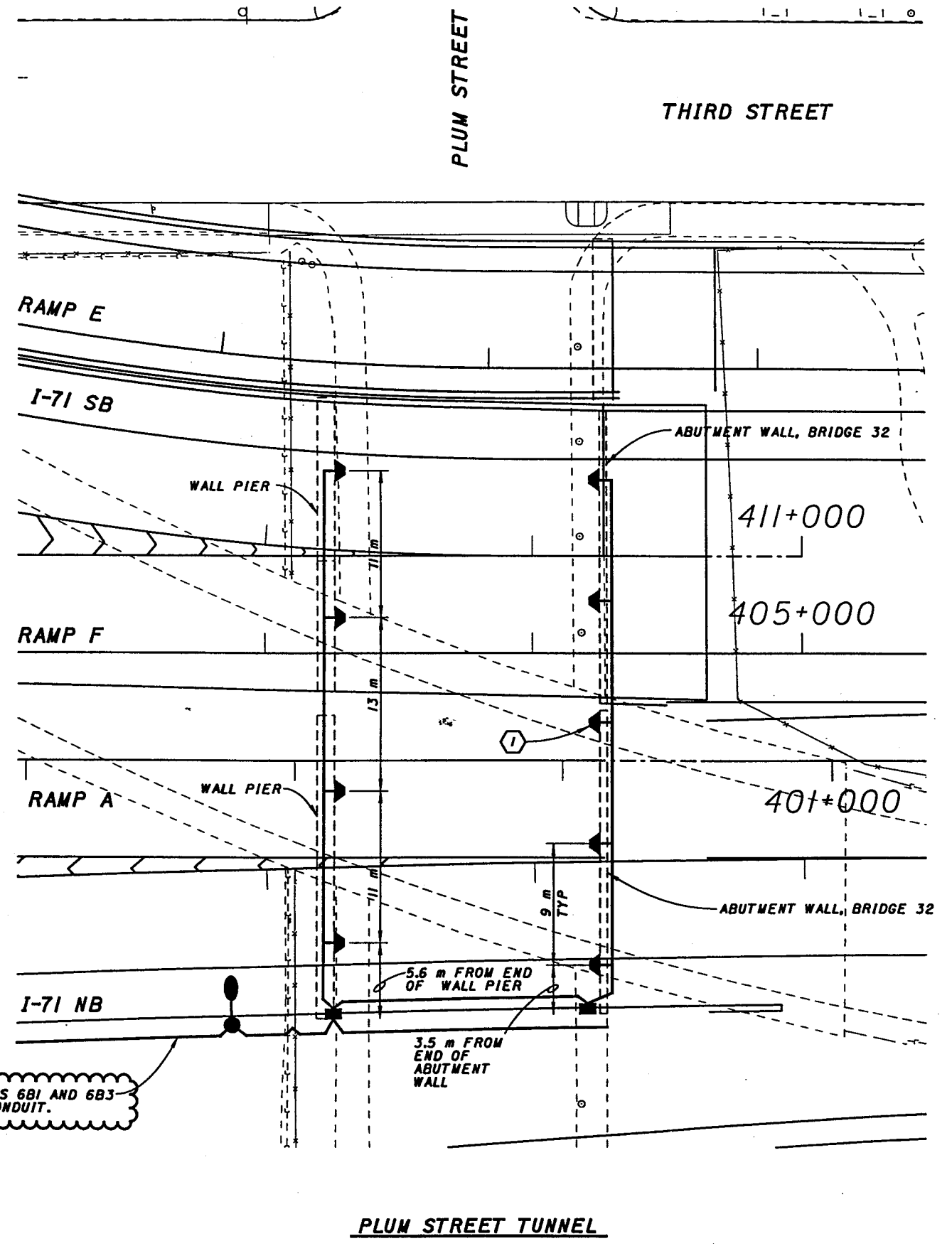
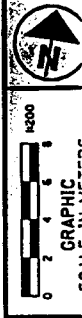
CITY OF CINCINNATI
 CONTRACT No. 75X5753

32/180

84
 232

ADDENDUM NO. 1
JULY 12, 1999

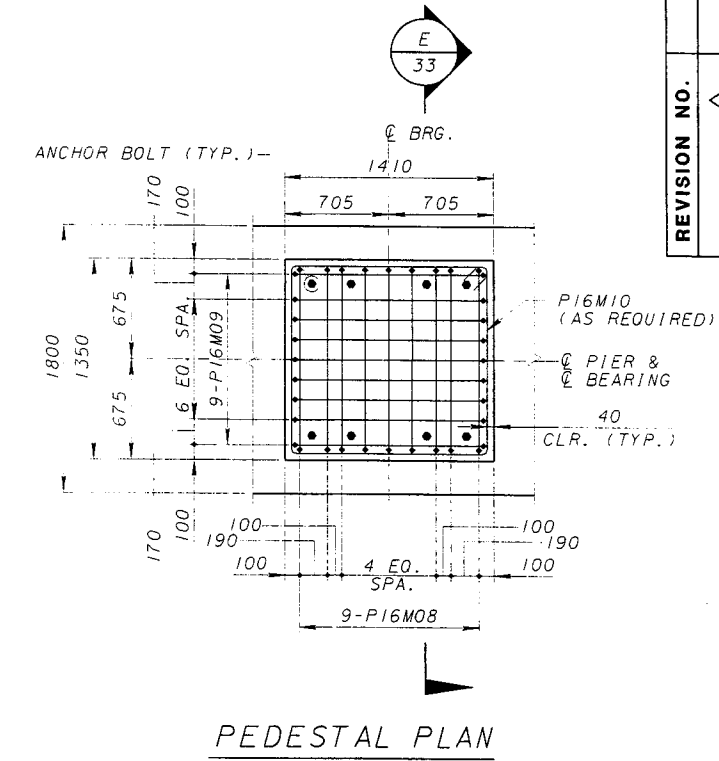
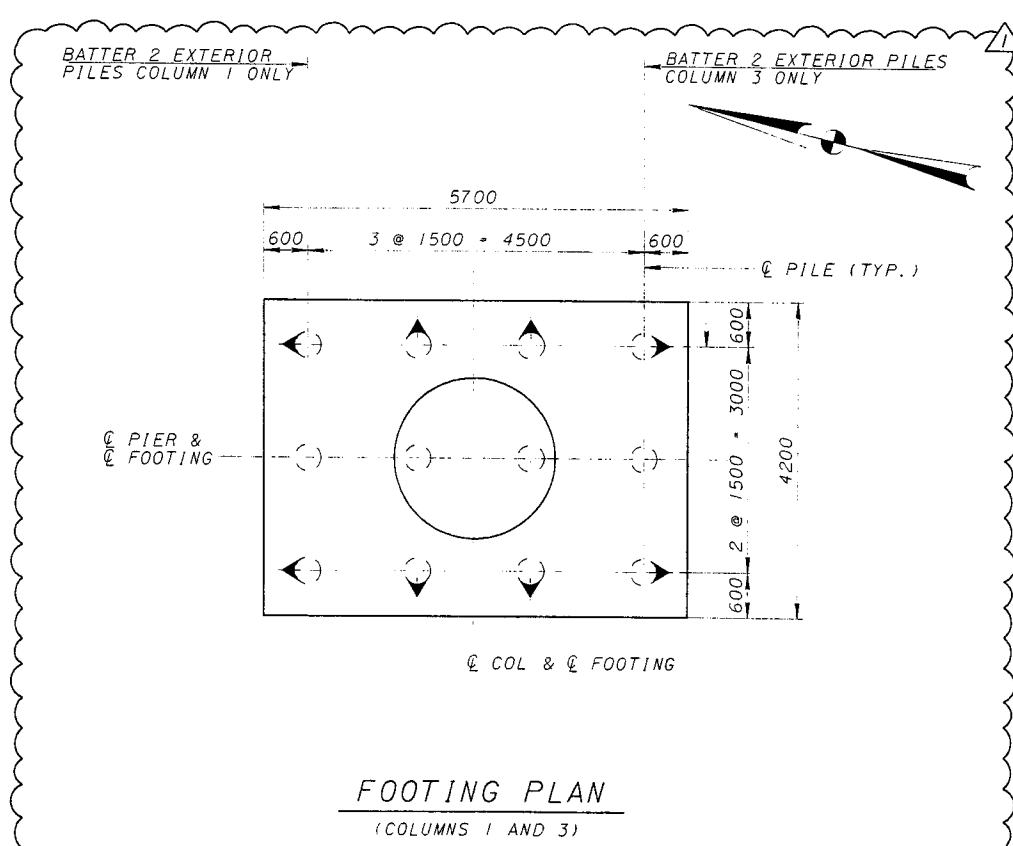
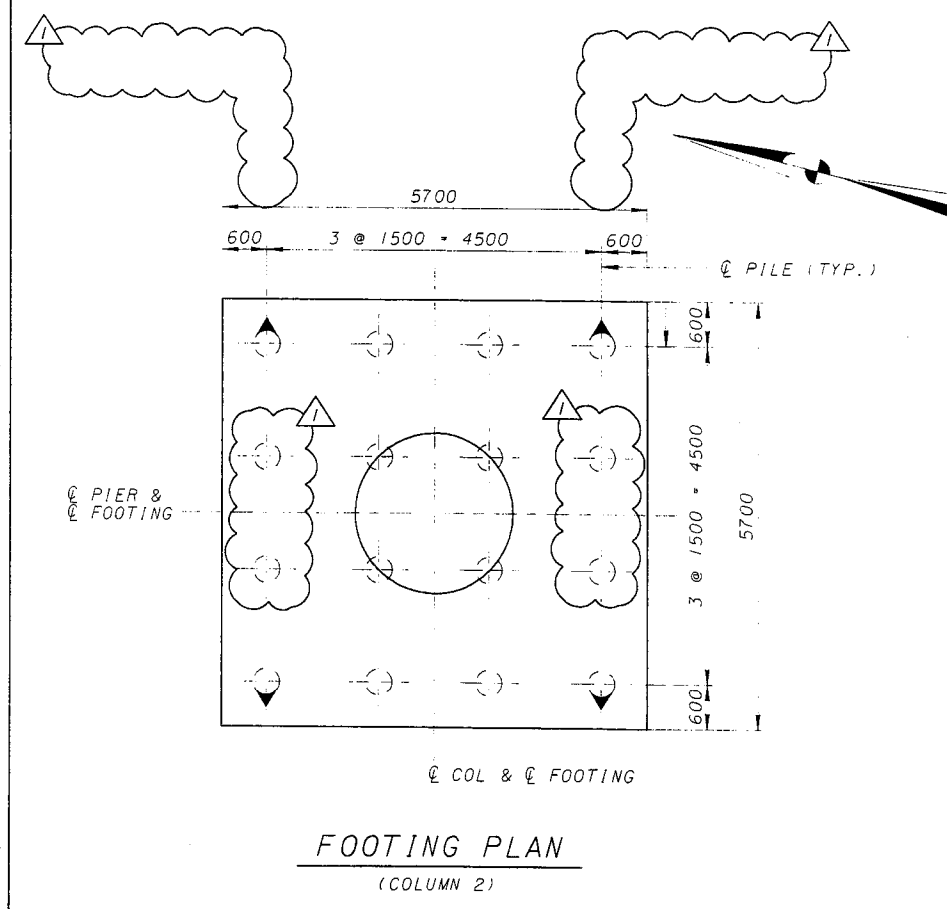
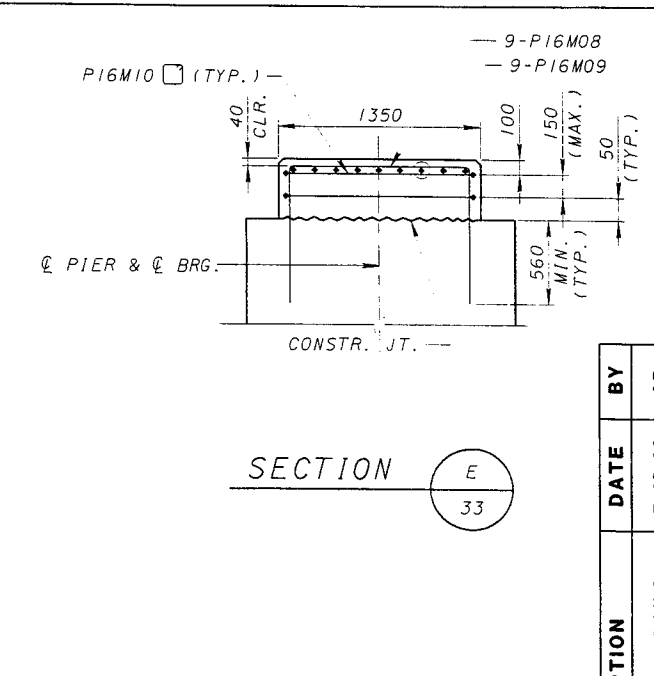
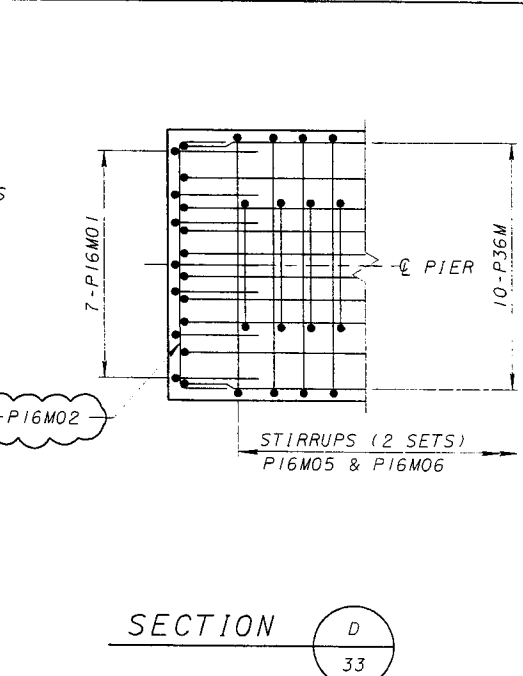
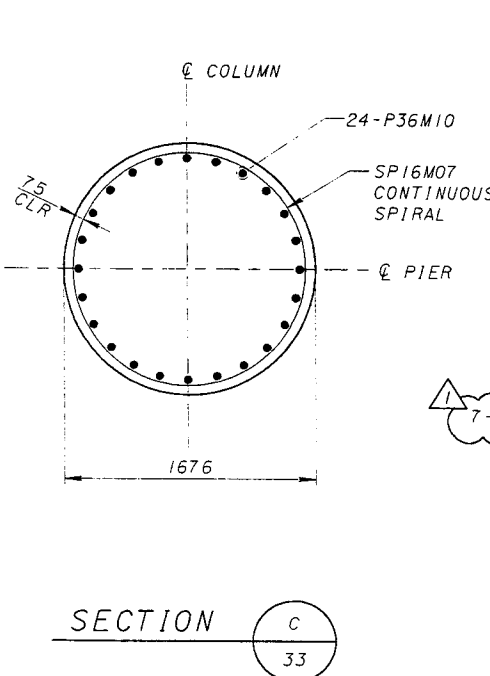
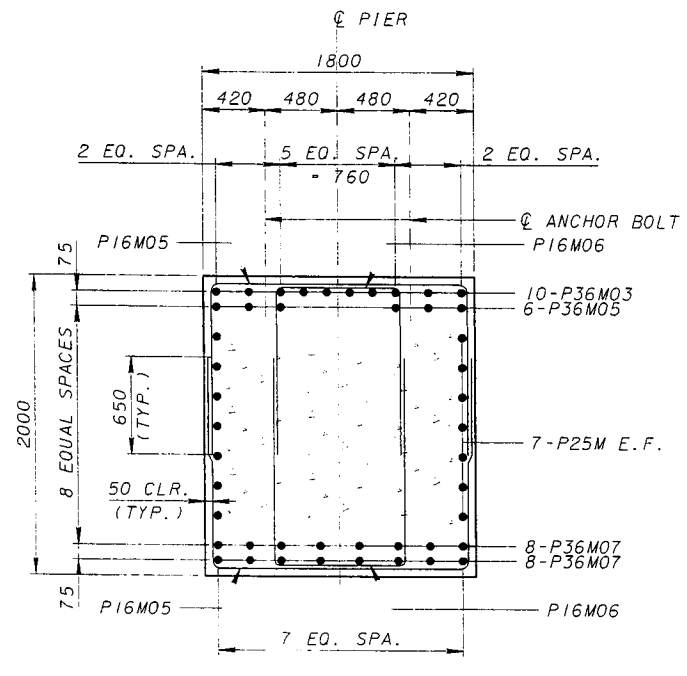
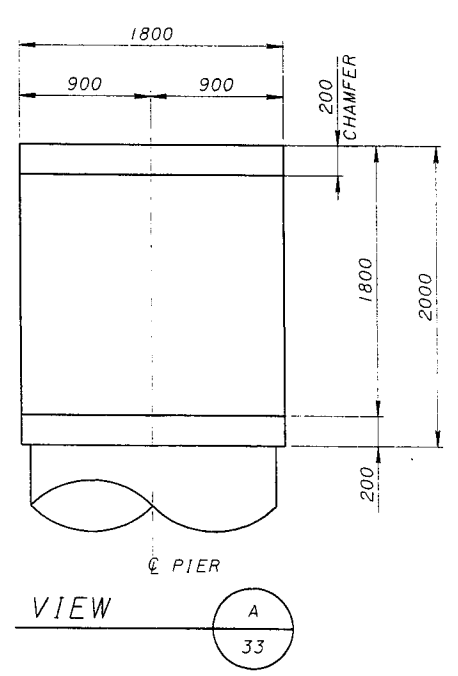
DETAIL 1
 SHEET 21/180



NOTE
 ① RECESSED LUMINAIRE, MOUNT .61 m BELOW BRIDGE DECK. CONDUIT ROUTING FOR LUMINAIRES SHALL BE EMBEDDED IN THE CONCRETE.

CABLE FOR CIRCUITS 6B1 AND 6B3 INSIDE (1) 51 mm CONDUIT.

REVISION	DATE
ODOT/CITY OF CINCINNATI RECIRCUITING	12-22-99



- NOTES:**
- FOR REINFORCING SCHEDULE SEE SHEET 52/180
 - ADJUST PIER CAP REINFORCING TO AVOID COLUMN REINFORCING
 - INDICATES BATTERED 1:4 PILES IN THE DIRECTION OF ARROW.
 - ALL PILES ARE STEEL PIPE PILES 350mm DIA. WITH ULTIMATE PILE CAPACITY OF 1512 kN.
 - FOR ANCHOR BOLT DETAILS, SEE SHEET 123/180

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISED PIER DETAILS	7-12-99	AR
	DESIGNED		AR
	DRAWN		BZX
	CHECKED		VJR
	REVIEWED		

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720

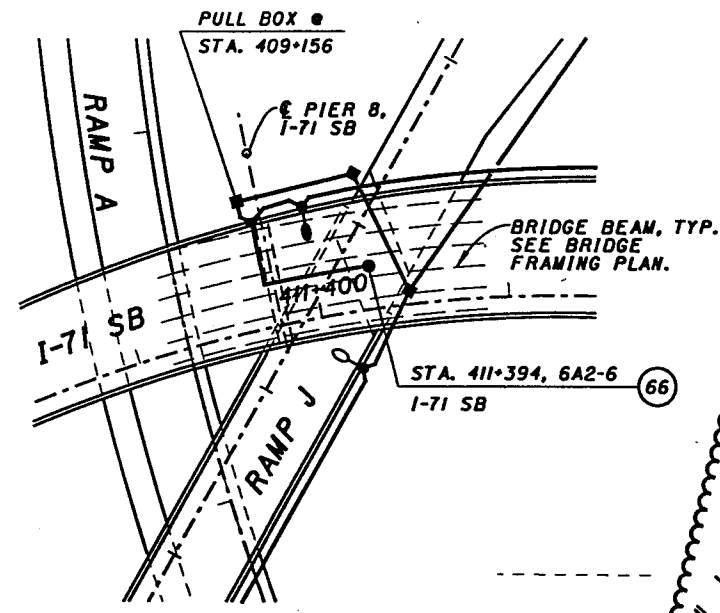
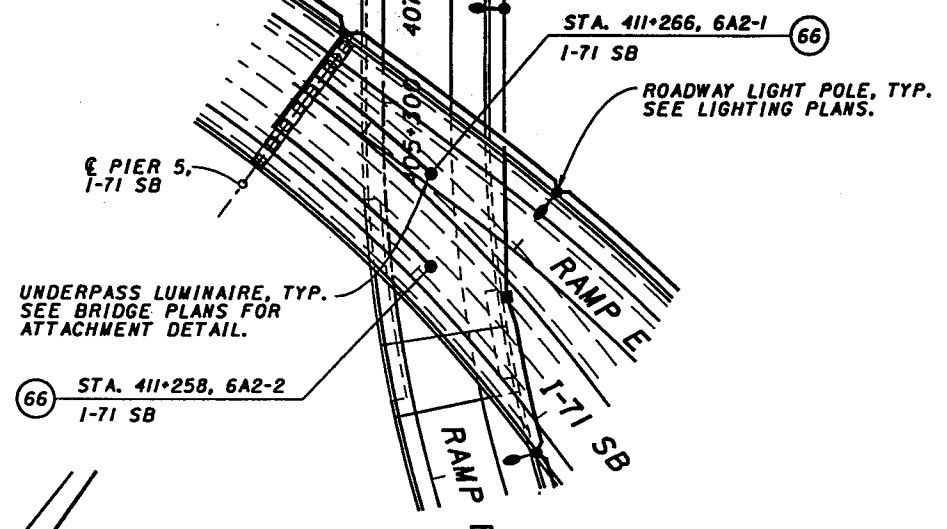
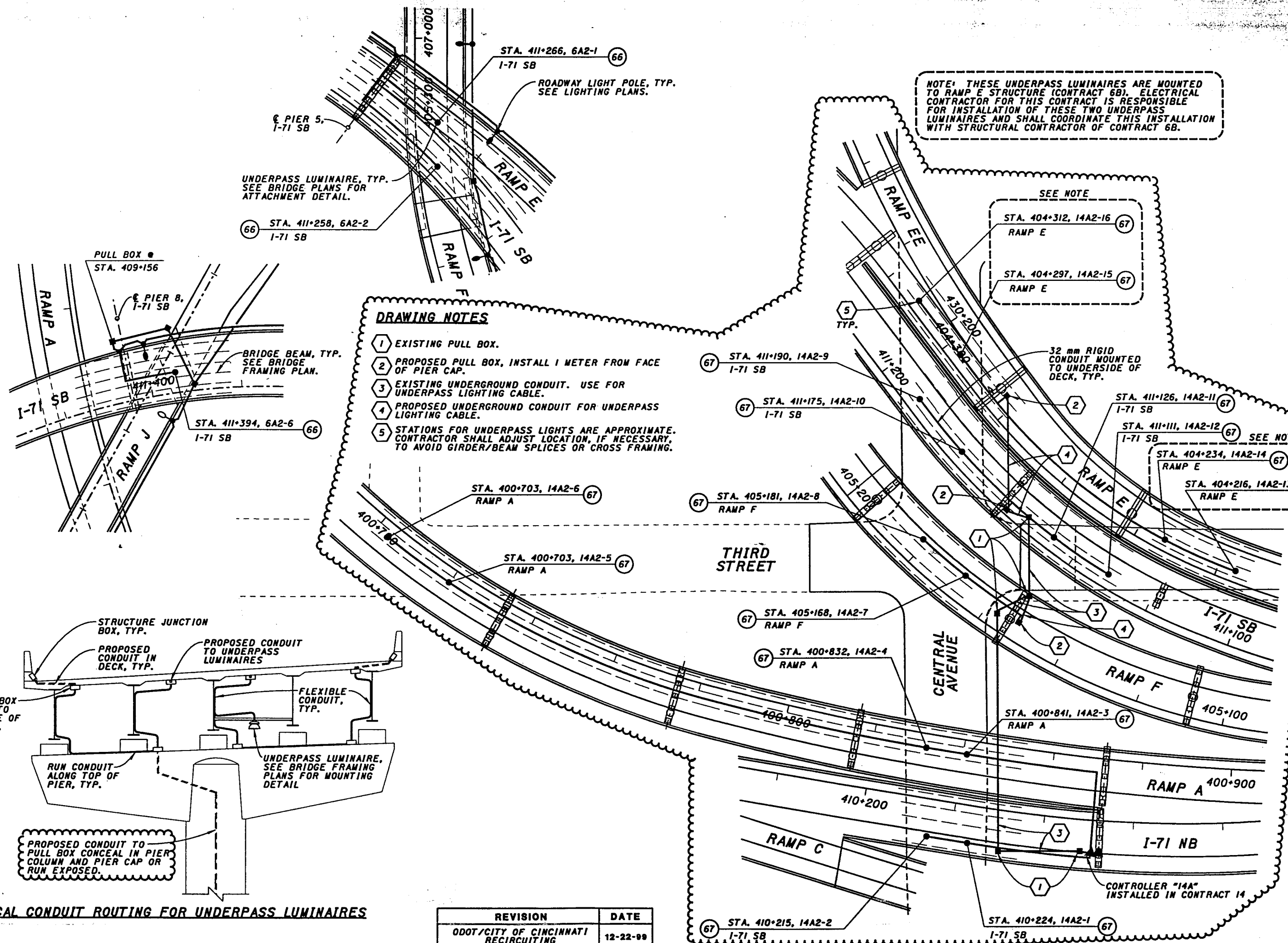
PIER NO. 4-B DETAILS BRIDGE NO. 4 RAMPS B & C

CITY OF CINCINNATI CONTRACT No. 75X5753

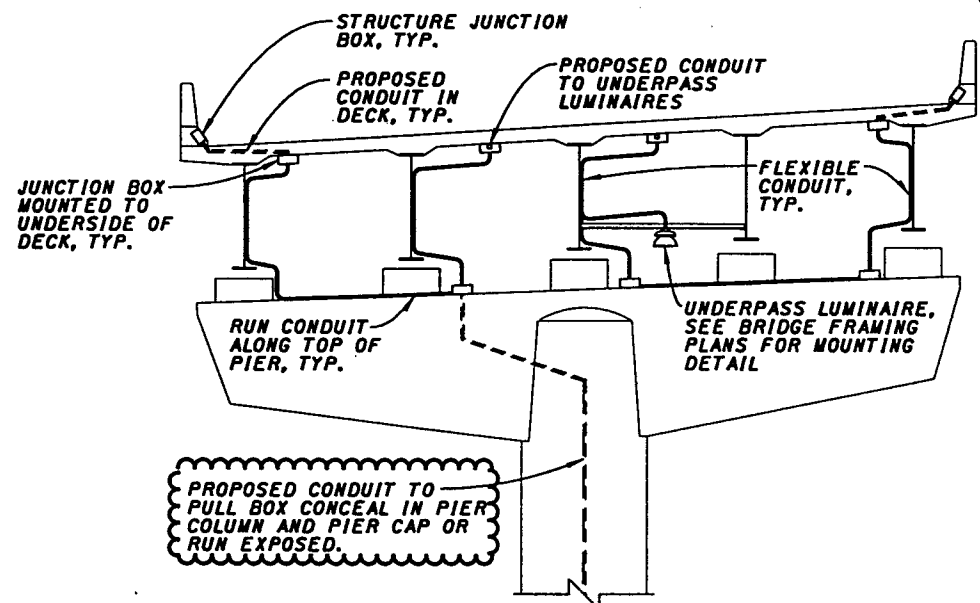
33/180

85/232

ADDENDUM NO. 1
JULY 12, 1999



- DRAWING NOTES**
- EXISTING PULL BOX.
 - PROPOSED PULL BOX, INSTALL 1 METER FROM FACE OF PIER CAP.
 - EXISTING UNDERGROUND CONDUIT. USE FOR UNDERPASS LIGHTING CABLE.
 - PROPOSED UNDERGROUND CONDUIT FOR UNDERPASS LIGHTING CABLE.
 - STATIONS FOR UNDERPASS LIGHTS ARE APPROXIMATE. CONTRACTOR SHALL ADJUST LOCATION, IF NECESSARY, TO AVOID GIRDER/BEAM SPLICES OR CROSS FRAMING.

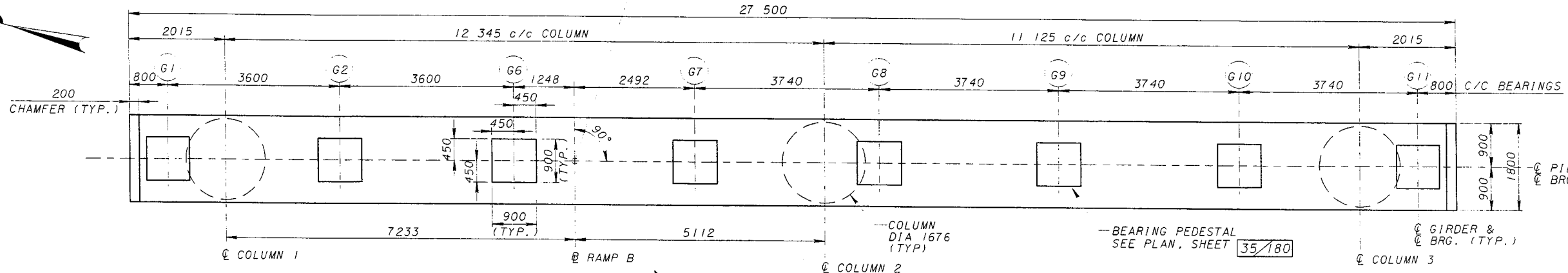


TYPICAL CONDUIT ROUTING FOR UNDERPASS LUMINAIRES

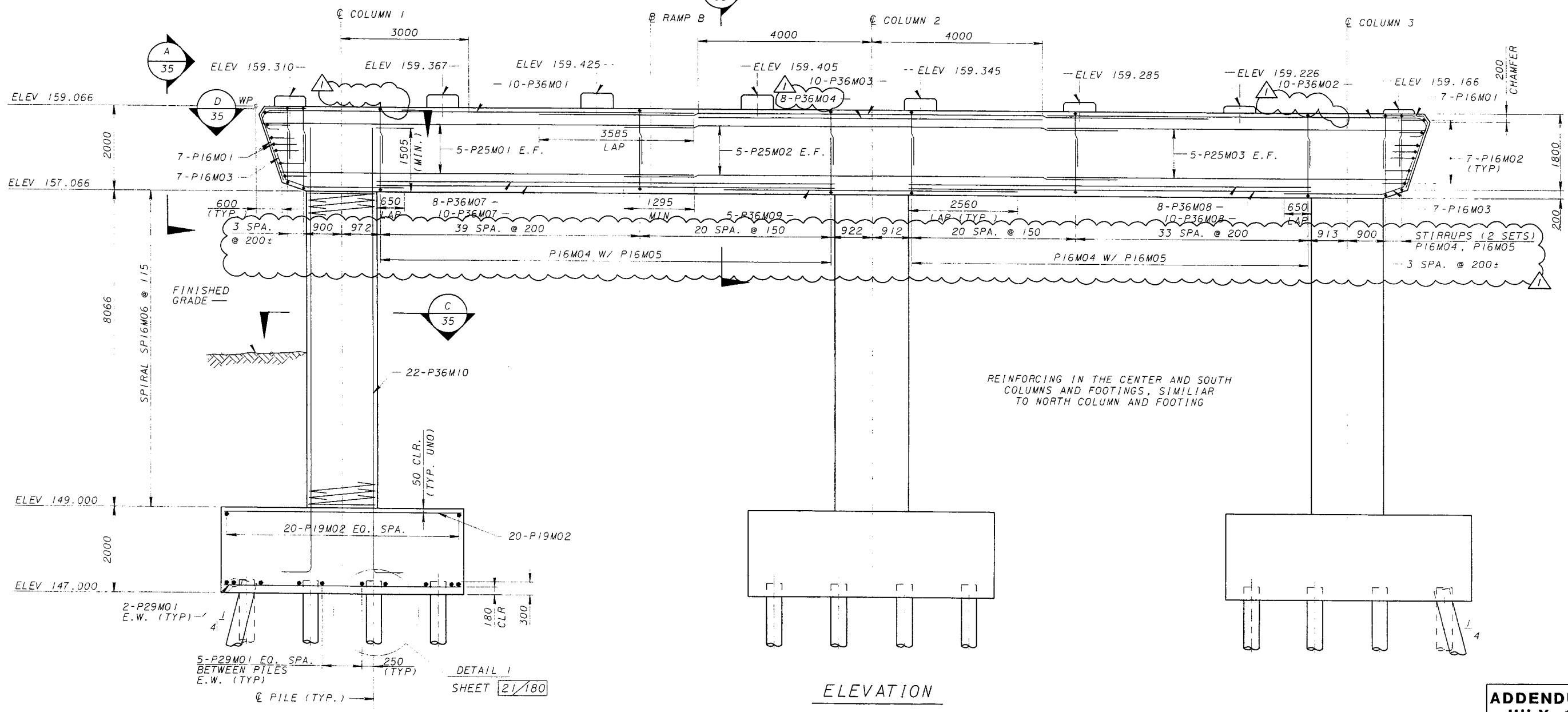
REVISION	DATE
ODOT/CITY OF CINCINNATI RECIRCUITING	12-22-99



STA 401+705.000
(@ RAMP B)



PLAN



ELEVATION

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISED PIER DETAILS	7-12-99	AR

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2120

DATE
7-12-99
REVIEWED
3/03/12

DESIGNED
OD
CHECKED
VJR

PIER NO. 4-9 PLAN & ELEVATION
BRIDGE NO. 4
RAMP B

CITY OF CINCINNATI
CONTRACT No. 75X5753

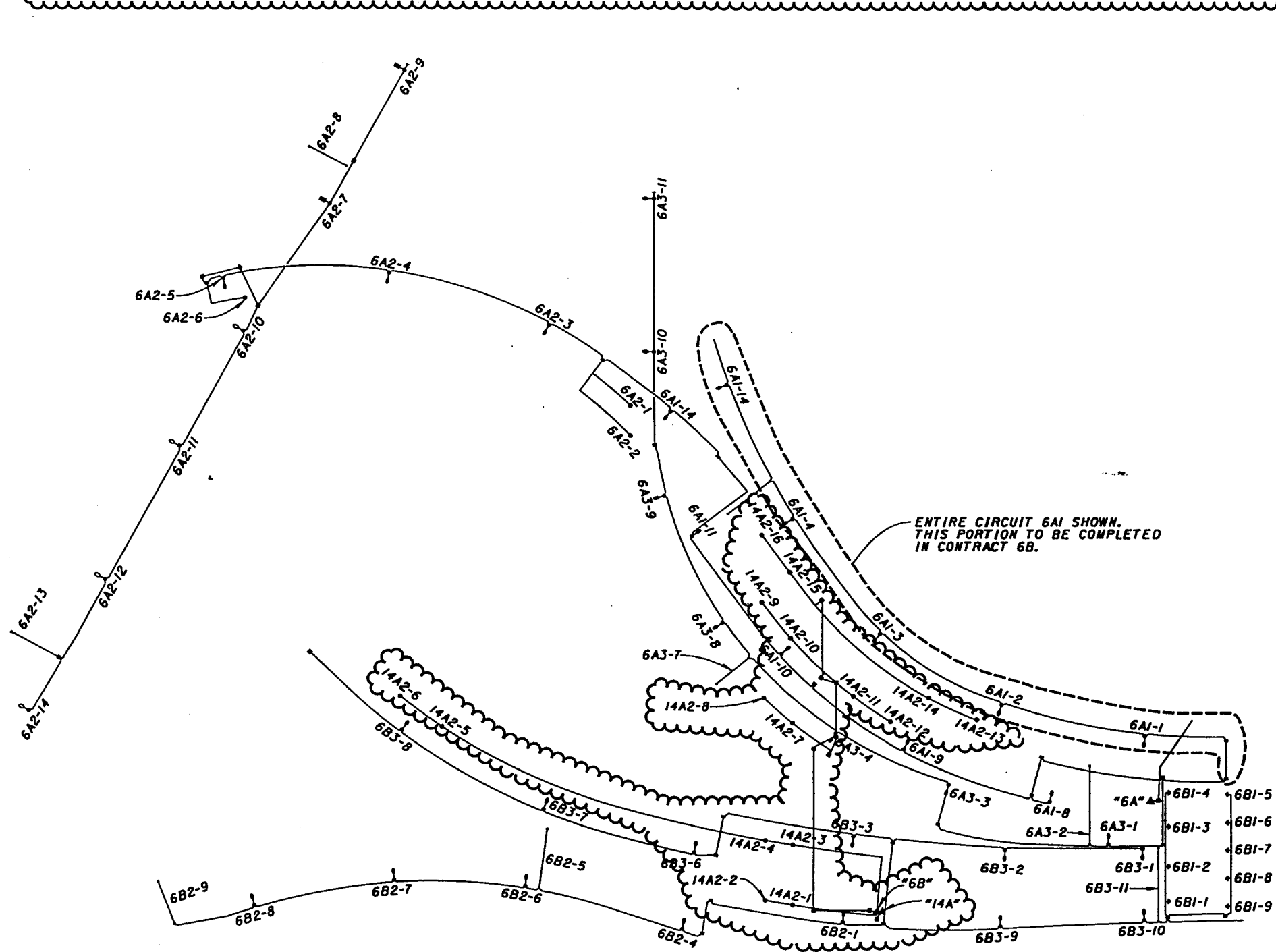
34/180

ADDENDUM NO. 1
JULY 12, 1999

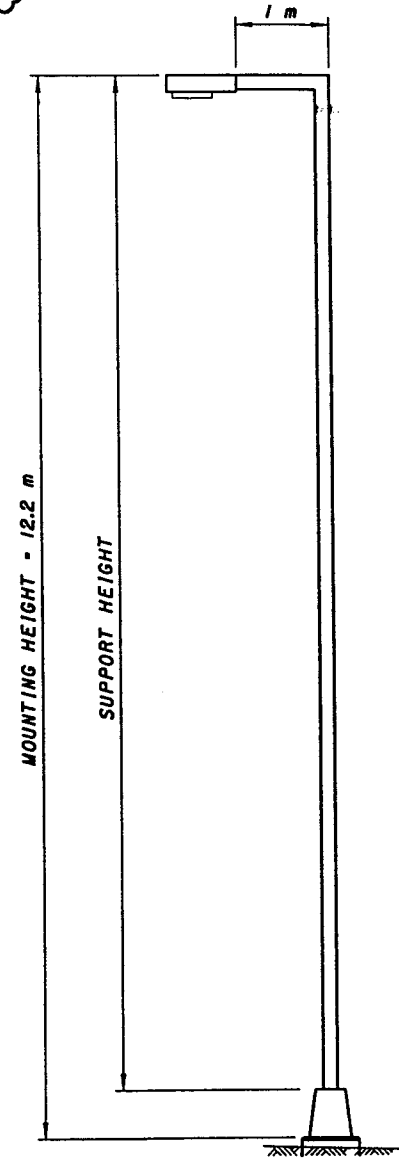
86
232

POWER SERVICE DATA

CONTROL CENTER LOCATION	POWER SERVICE	TRANSFORMER (KVA)	CONNECTED LOAD (KVA)	SERVICE ENTRANCE CONDUCTOR SIZE AWG	ENCLOSURE RATING (AMPS)	CIRCUIT NUMBER	CIRCUIT LOAD (AMPS)	CIRCUIT FUSE SIZE (AMPS)	REMARKS	MAINTAINING AGENCY	
CONTROL CENTER "6A"	PLUM STREET AT EXISTING CONTROL CENTER LOCATION	480 VOLT 3 WIRE, GROUNDED NEUTRAL	30	18	4	60	6A1	12	25	6A1-1 TO 6A1-14	CITY OF CINCINNATI
							6A2	13.2		6A2-1 TO 6A2-14	
							6A3	12.2		6A3-1 TO 6A3-11	
CONTROL CENTER "6B"	CENTRAL AVE. AT EXISTING CONTROL CENTER LOCATION	480 VOLT 3 WIRE, GROUNDED NEUTRAL	45	11.9	4	60	6B2	10.9	20	6B2-1 TO 6B2-9	CITY OF CINCINNATI
							6B3	11.5		6B3-1 TO 6B3-11	
							6B1	4.1		6B1-1 TO 6B1-9	
CONTROL CENTER "14A"	MOUNTED ON BACK OF PIER COLUMN, PIER 6, I-71 NB	240/480 VOLT 3 WIRE, GROUNDED NEUTRAL	30	15.6	4	100	14A1	24.7	40	CONTRACT 7	CITY OF CINCINNATI
							14A2	5.8		14A2-1 TO 14A2-16	



CIRCUIT DIAGRAM

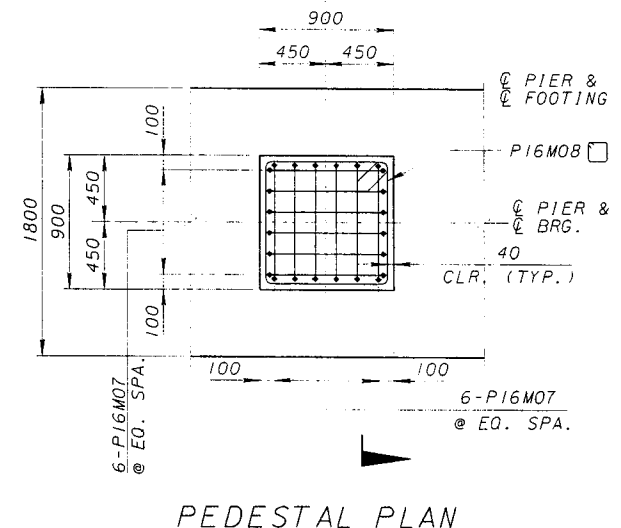
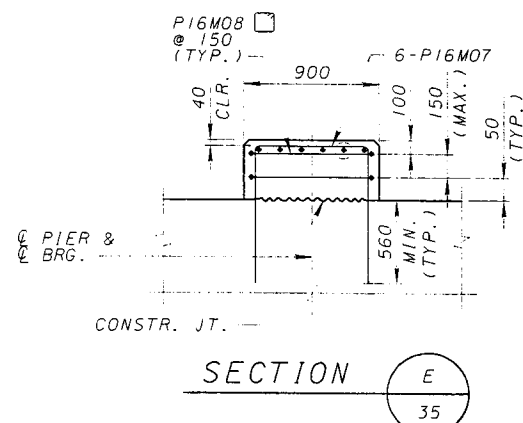
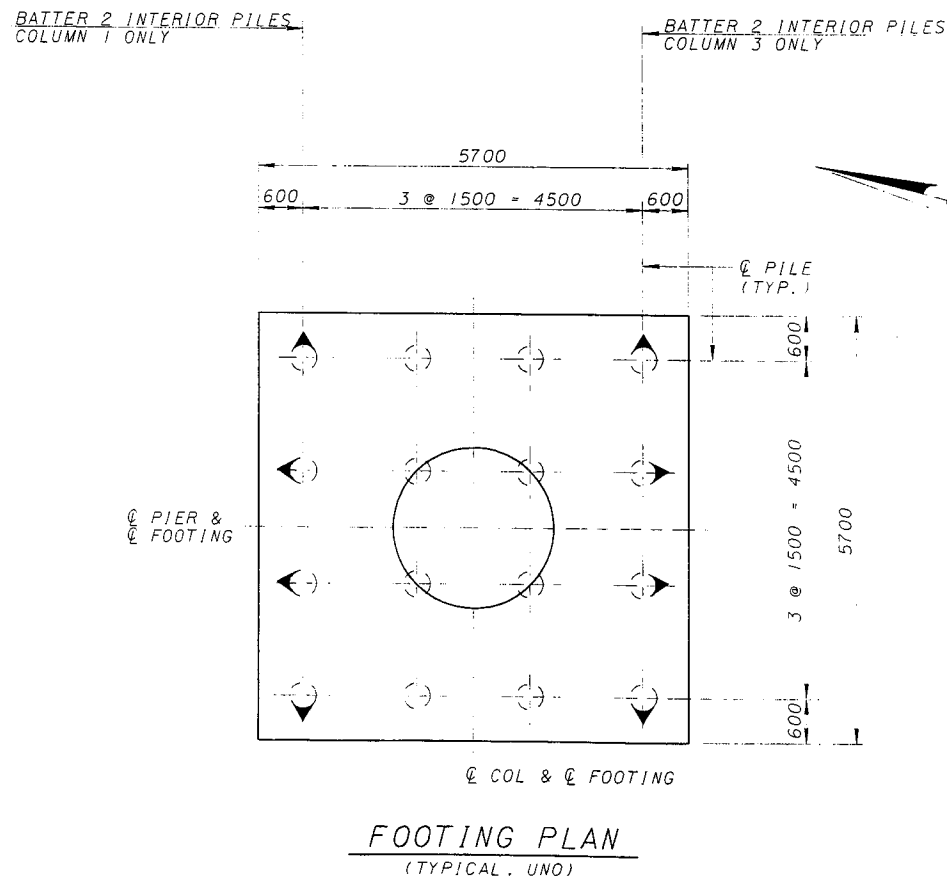
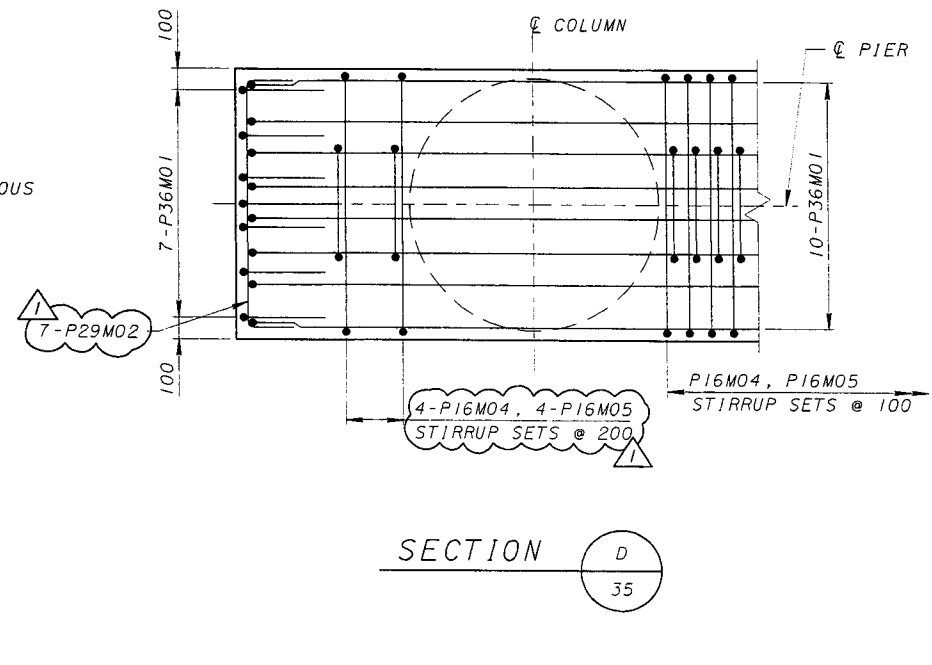
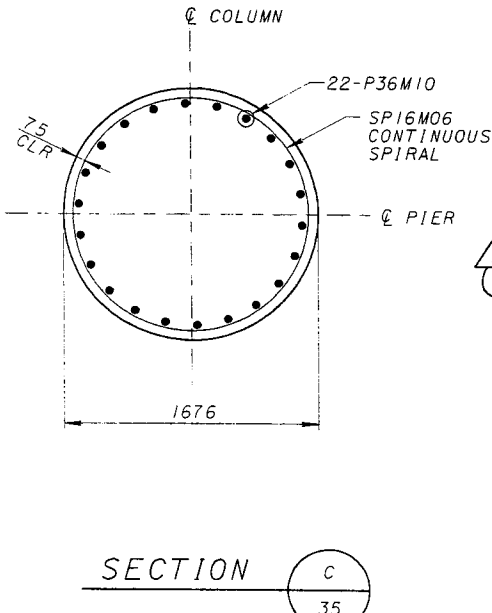
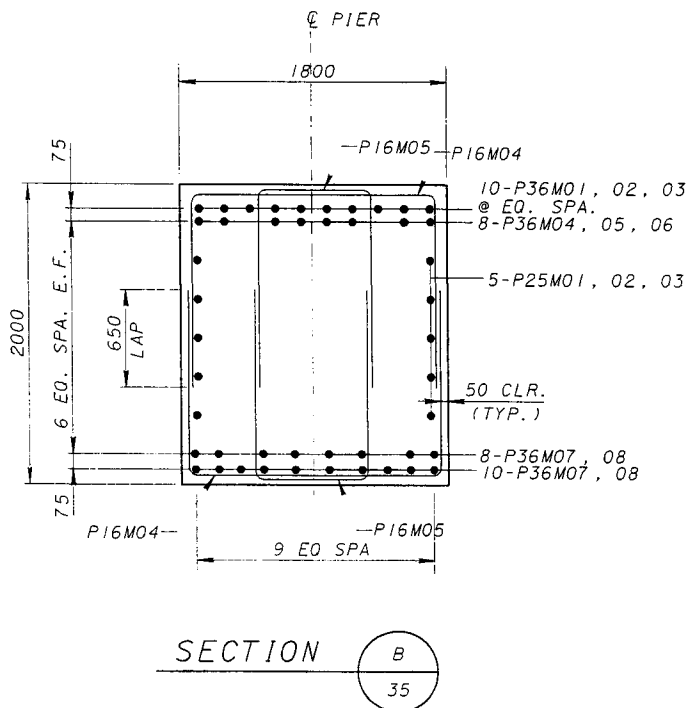
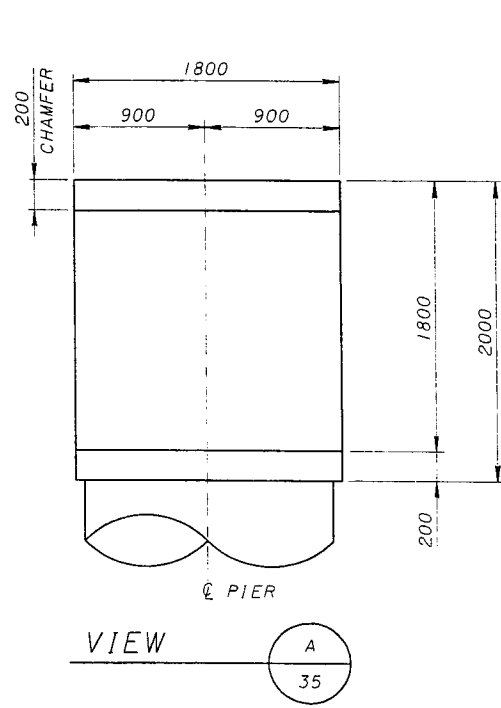


LIGHT POLE, AS PER PLAN

POLE CONSTRUCTION SHALL BE 6" DIAMETER STRAIGHT STEEL WITH 90 DEGREE CROSS ARMS. WHERE TRANSFORMER BASES ARE REQUIRED, THEY SHALL ALSO BE STEEL. FINISH SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ODOT 711.02. PREPARE SURFACE PER SSPC-SPI AND FINISH WITH HIGH BUILD EPOXY (0.08 mm - 0.13 mm DFT) AND ALIPHATIC ACRYLIC POLYURETHANE (0.05 mm - 0.08 mm DFT). COLOR TO BE FEDERAL STANDARD NO. 20372 OF FS595.

AT MANUFACTURER'S OPTION, FINISH COAT MAY BE A BAKED ON POWDER COAT WITH A MINIMUM THICKNESS OF 6 MILS.

REVISION	DATE
ODOT/CITY OF CINCINNATI RECIRCUITING	12-22-99



NOTES:

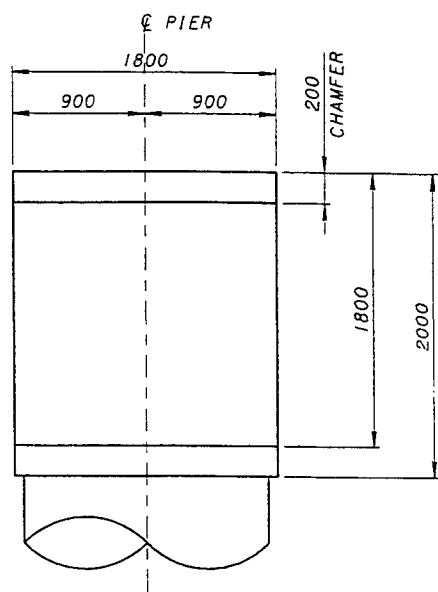
- FOR REINFORCING SCHEDULE SEE SHEET 53/180
- ADJUST PIER CAP REINFORCING TO AVOID COLUMN REINFORCING
- INDICATES BATTERED 1:4 PILES IN THE DIRECTION OF ARROW.
- ALL PILES ARE STEEL PIPE PILES 350mm DIA. WITH ULTIMATE PILE CAPACITY OF 1512 kN.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISED PIER DETAILS	7-12-99	AR
	DESIGNED	REVIEWED	DATE
	OD	BZX	
	CHECKED	VJR	
	DRAWN		
	BZX		
	REVISION	3/03/12	

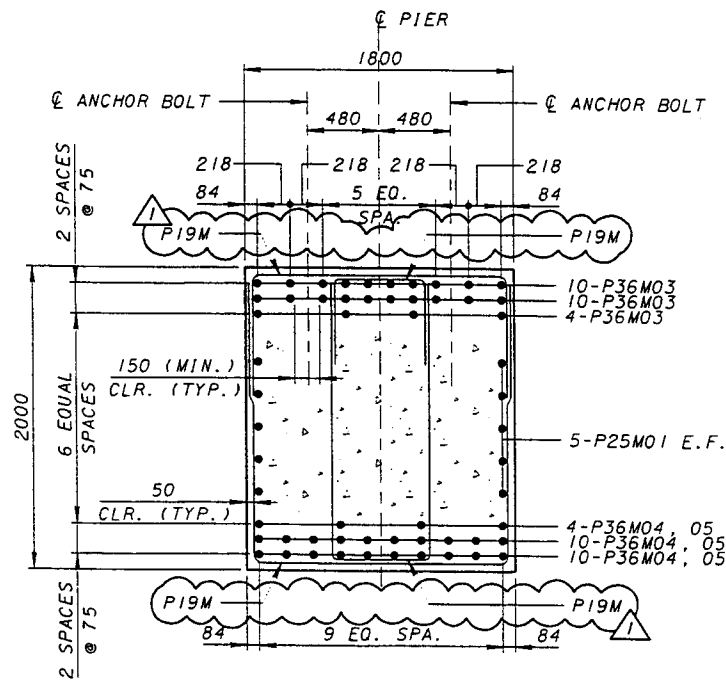
DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

PIER NO. 4-9 DETAILS
BRIDGE NO. 4
RAMP B

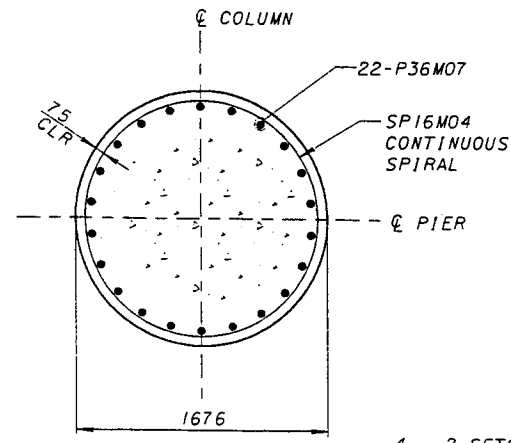
CITY OF CINCINNATI
CONTRACT No. 75X5753



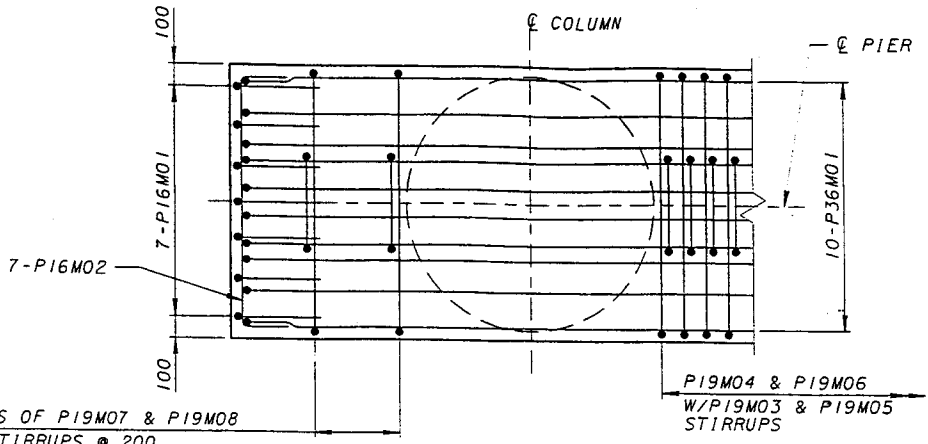
VIEW A
39



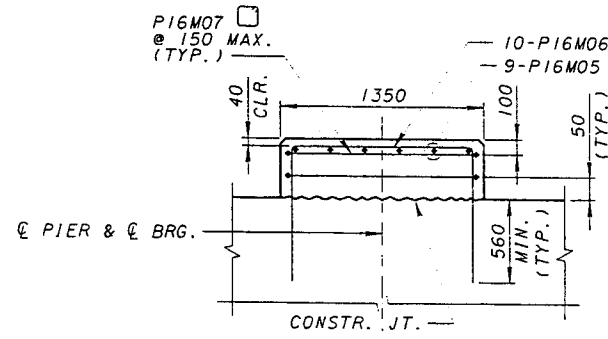
SECTION B
38



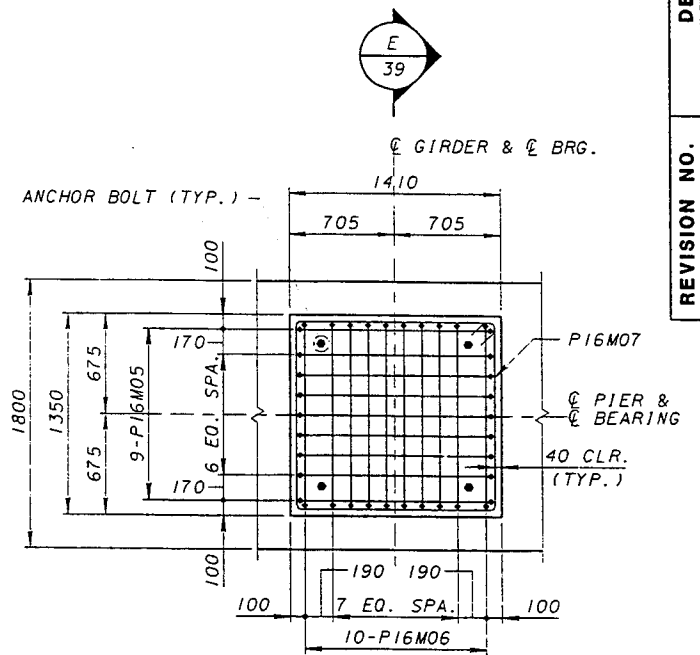
SECTION C
39



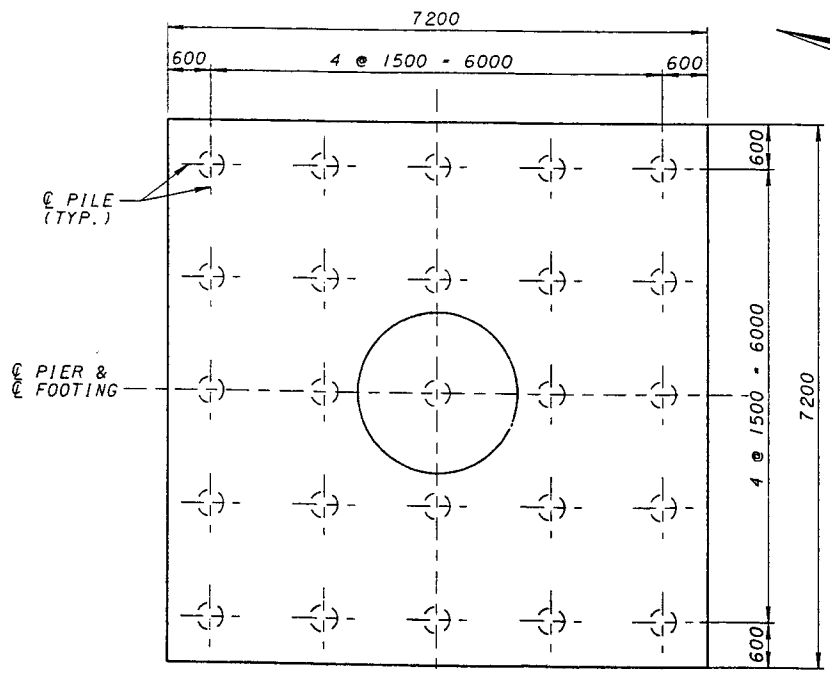
SECTION D
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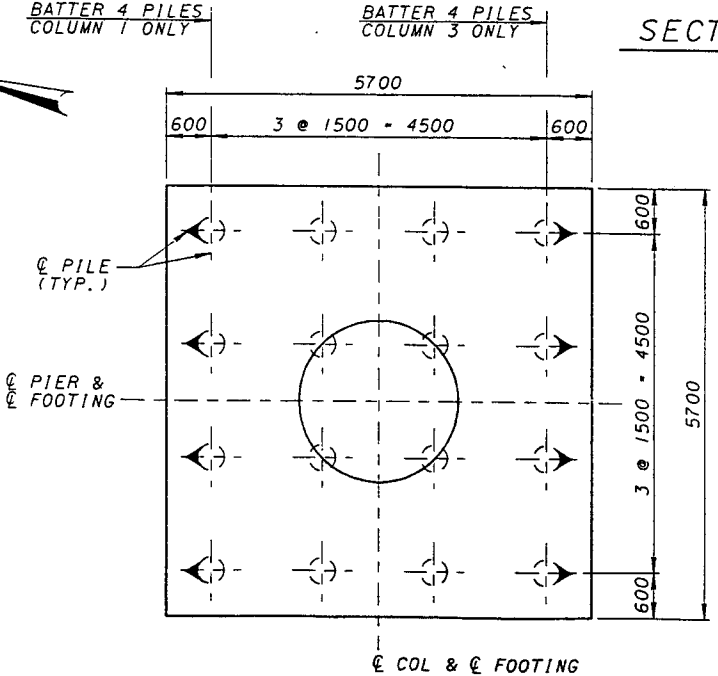
SECTION E
39



PEDESTAL PLAN



FOOTING PLAN FOR COLUMN 2



FOOTING PLAN FOR COLUMNS 1 AND 3

- NOTES:
- FOR REINFORCING SCHEDULE SEE SHEET 55/180
 - ADJUST PIER CAP REINFORCING TO AVOID COLUMN REINFORCING
 - INDICATES BATTERED 1:4 PILES IN THE DIRECTION OF ARROW
 - ALL PILES ARE STEEL PIPE PILES 350mm DIA. WITH ULTIMATE PILE CAPACITY OF 1512 kN.
 - FOR ANCHOR BOLT DETAILS, SEE SHEET 123/180

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISED PIER DETAILS	7-12-99	AR
REVISION 2	REVISED NOTE	8-6-99	JWM

DESIGN AGENCY
PB
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2120

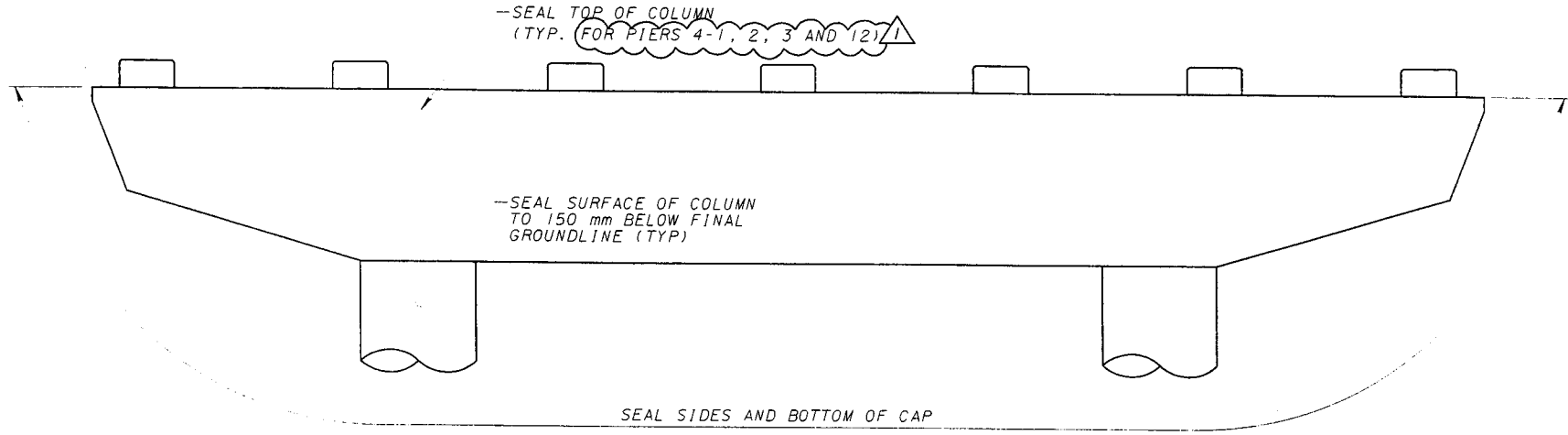
PIER NO. 4-11 DETAILS
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

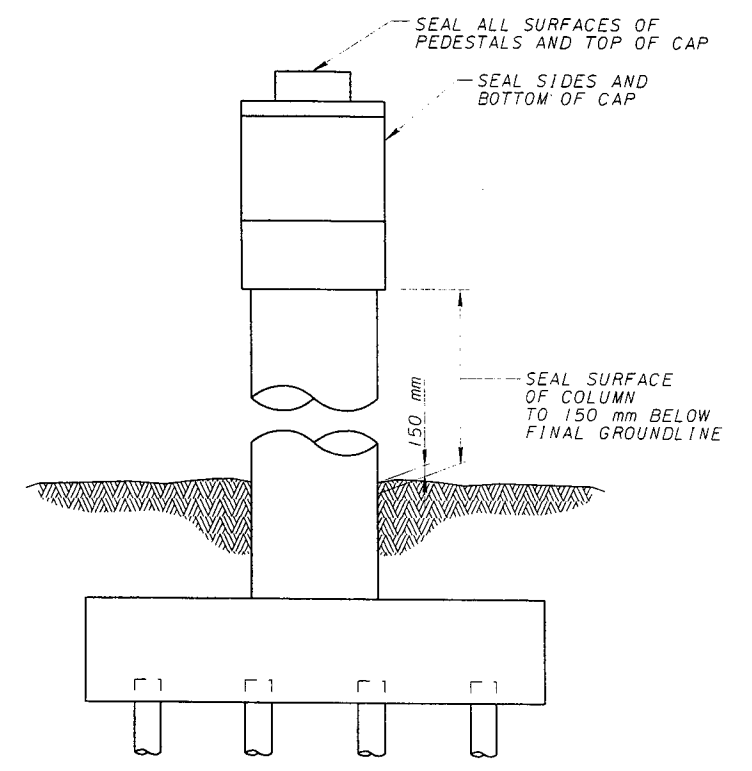
39/180

REVISION NO. 2
 AUGUST 6, 1999

91
 232



DETAIL - SEALING CONCRETE SURFACES



NOTES:

1. ALL PIERS SHALL BE SEALED AS SHOWN.
2. SEALANT SHALL BE IN ACCORDANCE WITH THE PROPOSAL NOTE 5.16 "SEALING CONCRETE SURFACES"
3. SEE SHEETS 19/180 AND 20/180 FOR LIMITS OF SEALING FOR REAR ABUTMENT (INCLUDING WINGWALLS).

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM Δ		7-12-99	AR
	NOTES ADDED	REVIEWED	DATE
	CHECKED JWM	DATE	FILE NUMBER
	DRAWN JLR	REVIEWED	3103412
	CHECKED AR		

MISCELLANEOUS PIER DETAILS - 1
BRIDGE NO. 4
RAMP B

CITY OF CINCINNATI
CONTRACT No. 75X5753

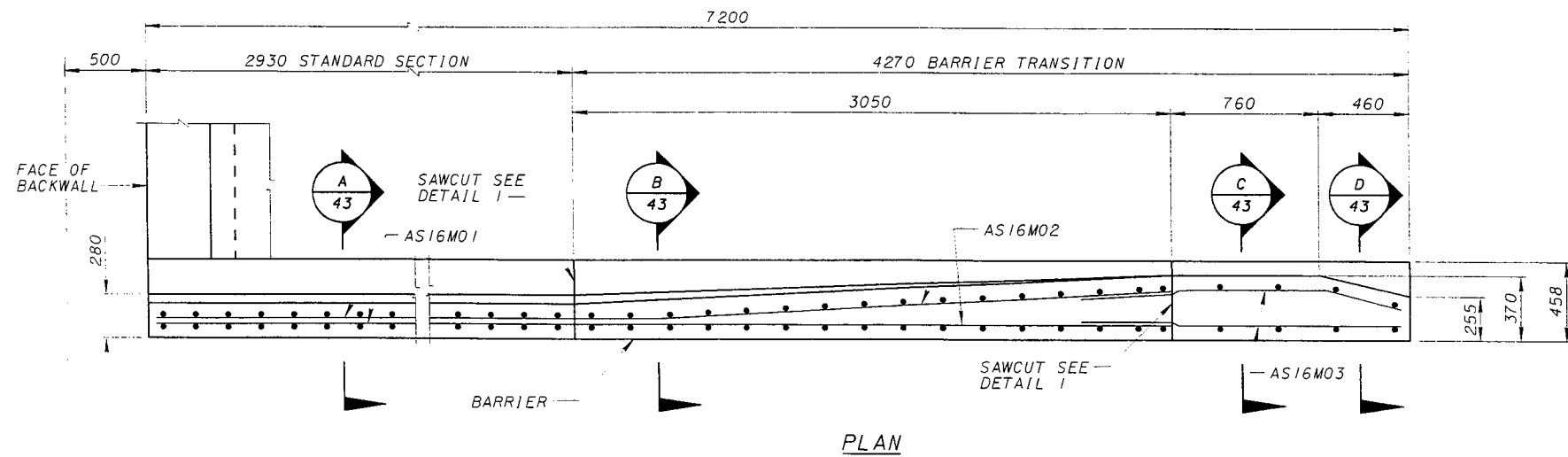
42/180

ADDENDUM NO. 1
JULY 12, 1999

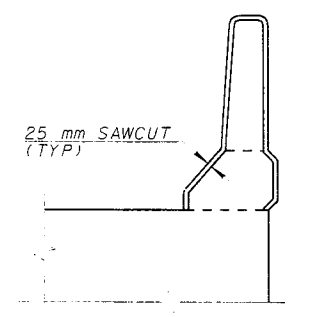
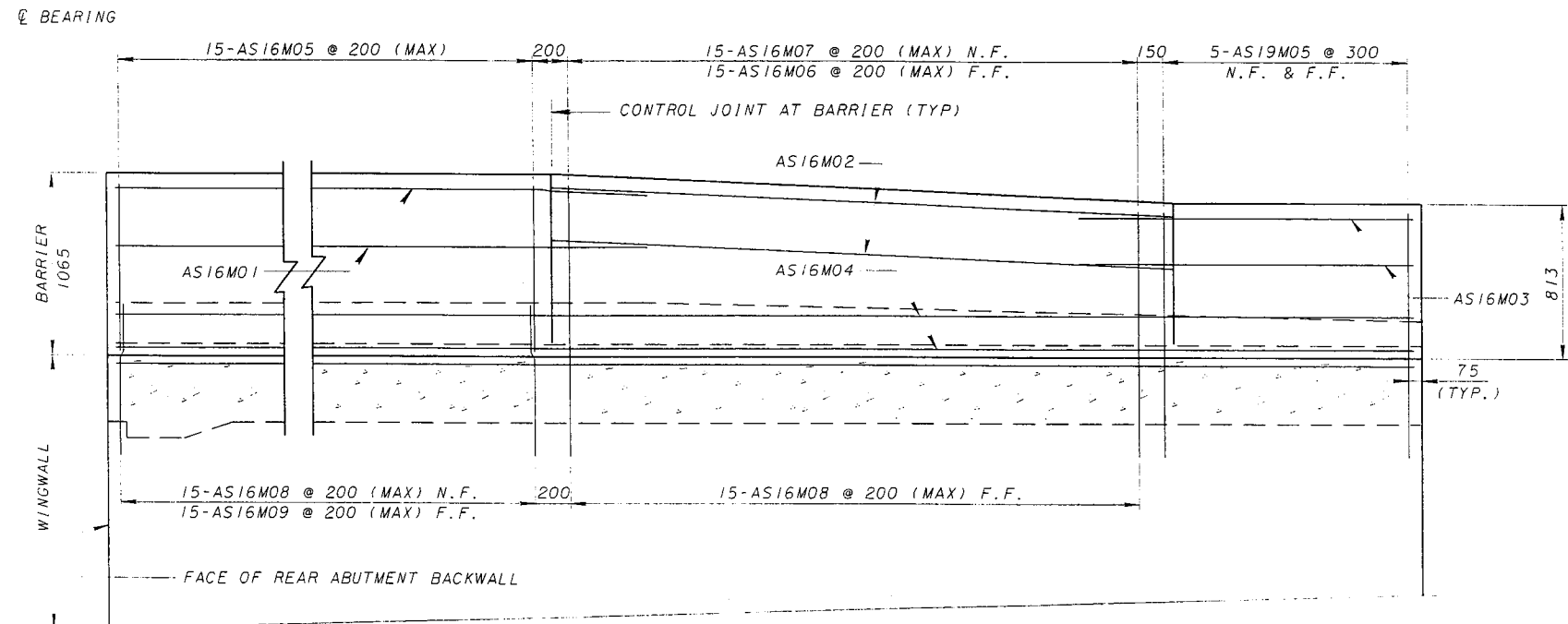
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232

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

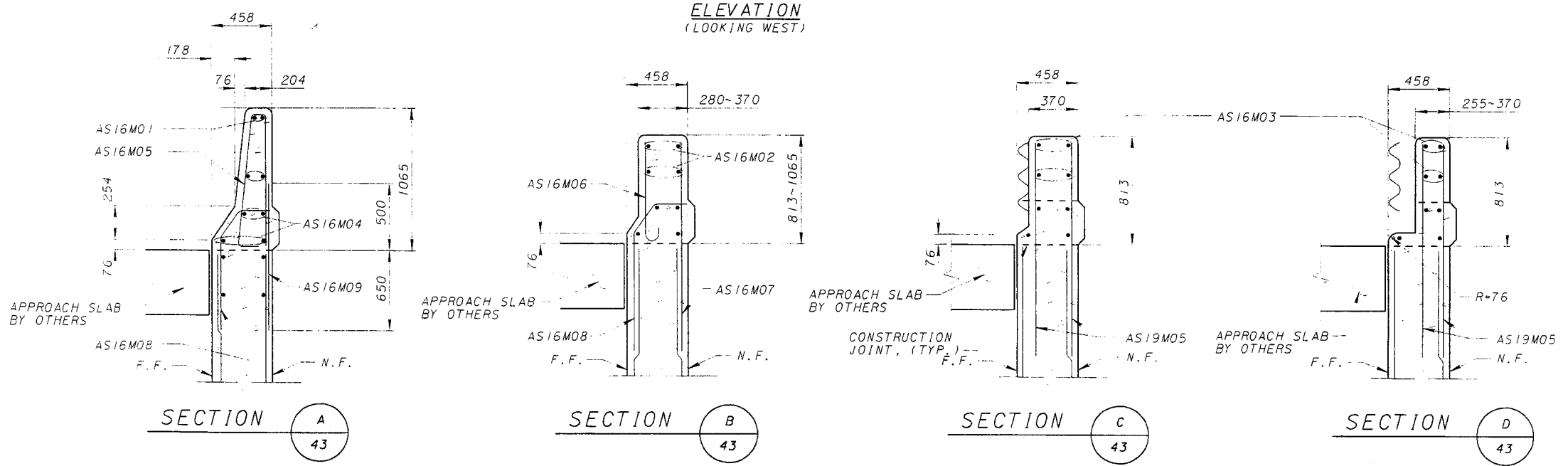
PB



- NOTES:**
1. SEE STANDARD BRIDGE DRAWINGS BR-1M FOR ADDITIONAL CONCRETE BARRIER NOTES AND DETAILS.
 2. SEE STANDARD CONSTRUCTION DRAWINGS GR-3.1M AND GR-3.2M FOR BRIDGE TERMINAL ASSEMBLY, TYPE 1 AND TYPE 2 DETAILS AND THE ANCHORAGE CONNECTION TO CONCRETE BARRIER
 3. TYPE A STANDARD CONCRETE BARRIER IS A BARRIER WITH 1065 mm CONSTANT HEIGHT AND DETAILS AS SHOWN IN SECTION A
 4. BARRIER ON EAST WINGWALL SHOWN, WEST WINGWALL BARRIER OPPOSITE HAND
 5. FOR CONSTRUCTION BY OTHERS, SEE CONTRACT 6A



TYPE B CONCRETE BARRIER ELEVATION (LOOKING WEST)



FOR DETAILS NOT SHOWN, SEE SECTION A-A

REVISION NO.	DESCRIPTION	DATE	BY
		7-12-99	VJR
ADDENDUM	NEW SHEET	REVIEWED	DATE
ADDENDUM	NEW SHEET	REVIEWED	DATE
CONCRETE BARRIER DETAILS		DESIGNED	DATE
BRIDGE NO. 4		DESIGNED	DATE
RAMP B		DESIGNED	DATE
CITY OF CINCINNATI		DESIGNED	DATE
CONTRACT No. 75X5753		DESIGNED	DATE
43/180		DESIGNED	DATE
ADDENDUM NO. 1		DESIGNED	DATE
JULY 12, 1999		DESIGNED	DATE
95		DESIGNED	DATE
232		DESIGNED	DATE

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

DATE: 7-12-99
 BY: VJR
 REVIEWED: BZX
 CHECKED: AR
 FILE NUMBER: 3103412

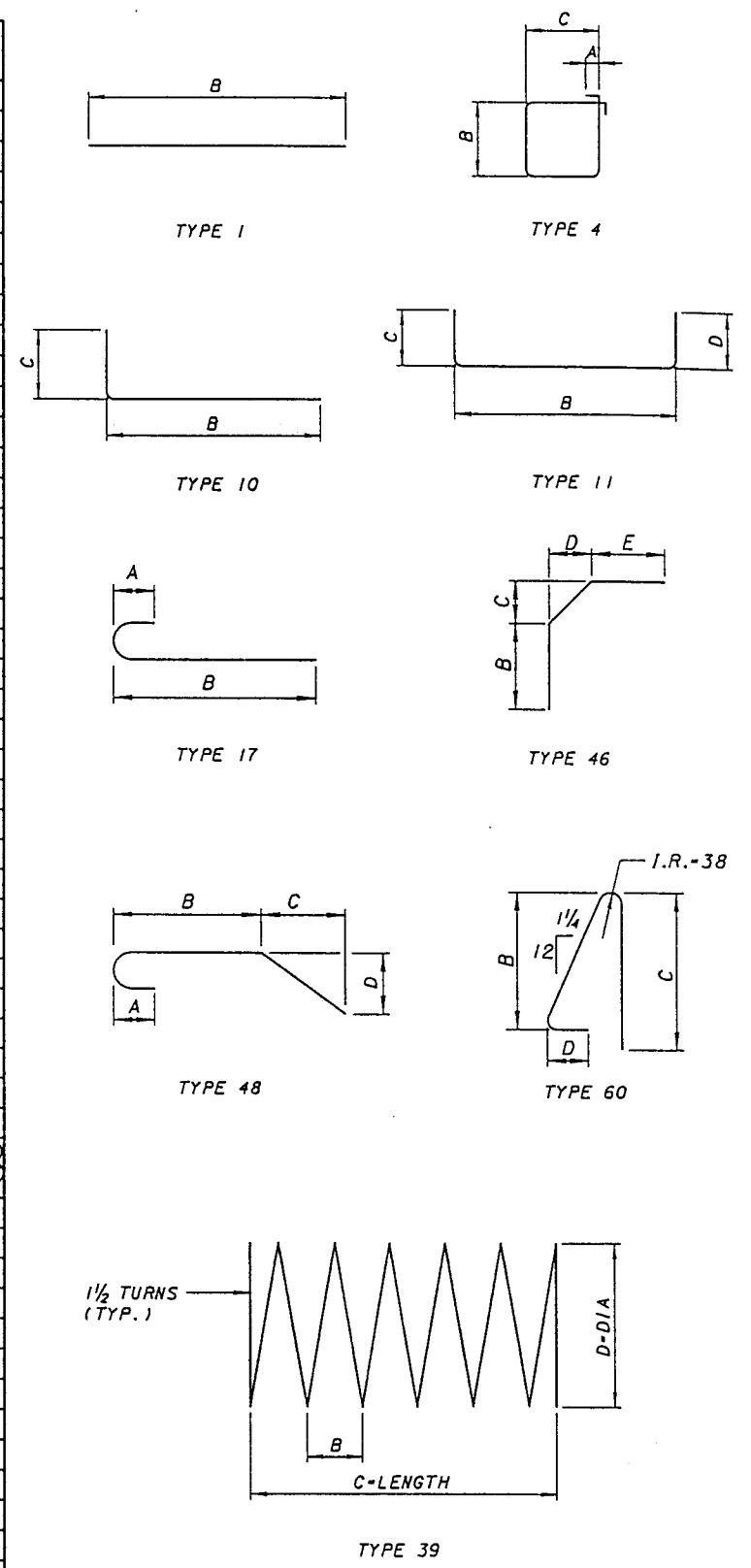
CONCRETE BARRIER DETAILS
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

43/180
 95
 232

REAR ABUTMENT

MARK	NUMBER	LENGTH (mm)	WEIGHT (kg)	TYPE	DIMENSIONS (mm)					P Degrees	R Degrees	DESCRIPTION
					A	B	C	D	E			
PILES												
SPI3M01	16	6875	109.3	39		100	615	250				
P19M01	96	975	209.2	10		715	305					PILES
ABUTMENT												
A16M01	71	3650	402.2	11		2150	790	790				FOOTING
A16M03	46	2660	189.9	11		1440	650	650				ABUTMENT
A16M04	35	13415	728.7	1		13415						ABUTMENT
A16M05	8	4865	60.4	10		4700	205					
A16M011	3	4410	20.5	4	155	920	1230					PEDESTAL
A16M012	30	2615	121.8	11		1195	750	750				PEDESTAL
A16M013	40	2305	143.1	11		885	750	750				PEDESTAL
A19M02	46	2195	225.7	11		440	925	925				ABUTMENT
A19M03	76	6295	1069.3	11		1440	2475	2475				ABUTMENT
A19M04	46	5515	567.0	11		440	2585	2585				ABUTMENT
A19M05	46	2415	248.3	11		290	1110	1110				ABUTMENT
A19M06	80	3635	649.9	11		2150	790	790				FOOTING
A25M01	29	1485	171.1	48	200	790	305	305				ABUTMENT
A29M01	10	14000	708.4	1		14000						FOOTING
WINGWALL												
A13M01	46	695	31.8	11		358	200	200				WINGWALL
A13M02	4	5450	21.7	1		5450						WINGWALL
A13M03	16	4510	71.7	10		4335	205					WINGWALL
A16M02	34	1990	105.0	1		1990						WINGWALL
A16M05	8	4865	60.4	10		4700	205					WINGWALL
A16M06	92	1795 to 4065	418.4	1		1795 to 4065						WINGWALL
A16M08	48	1235	92.0	10		250	1025					WINGWALL
A16M10	20	1900	59.0	1		1900						FOOTING
A16M14	8	3480	43.2	11		600	1480	1480				WINGWALL FTG
A16M15	2	1900	5.9	1		1900						WINGWALL FTG
A19M07	16	5120	183.1	4	180	600	1900					FOOTING
A22M01	10	7100	216.0	1		7100						WINGWALL
A22M02	6	5750	104.9	1		5750						WINGWALL
A22M03	20	690 to 5100	176.1	1		690 to 5100						WINGWALL
A25M02	10	7636	303.5	10		600	7100					WINGWALL
A25M03	6	6285	149.9	10		600	5750					WINGWALL
A25M04	20	1226 to 5636	272.7	10		600	690 to 5100					WINGWALL
AS16M01	8	3505	43.5	1		3505						BARRIER
AS16M02	8	3050	37.9	1		3050						BARRIER
AS16M03	8	1870	23.2	1		1870						BARRIER
AS16M04	8	7050	87.5	1		7050						BARRIER
AS16M05	30	2130	99.2	60		990	915	205				BARRIER
AS16M06	30	915 to 1165	48.4	17	125	740 to 990						BARRIER
AS16M07	30	1375	64.0	1		1375						BARRIER
AS16M08	60	1175	109.4	46		725	216	152	205			BARRIER
AS16M09	30	1150	53.5	1		1150						BARRIER
AS19M05	20	1375	61.5	1		1375						BARRIER



NOTES:
 1. ALL DIMENSIONS ARE IN MILLIMETERS (mm), EXCEPT AS NOTED.
 2. ALL DIMENSIONS ARE OUT-TO-OUT.

DESIGNED JKS	DRAWN HME	REVIEWED DATE	DESCRIPTION ADD WINGWALL FOOTING BARS	DATE 11-19-99	BY
CHECKED	REVIEWED	STRUCTURE FILE NUMBER 3703412	REVISION NO. 4	REVISION	

DESIGN AGENCY
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

CITY OF CINCINNATI
 CONTRACT No. 75X5753

BAR SCHEDULE - REAR ABUTMENT
 BRIDGE NO. 4
 RAMP B

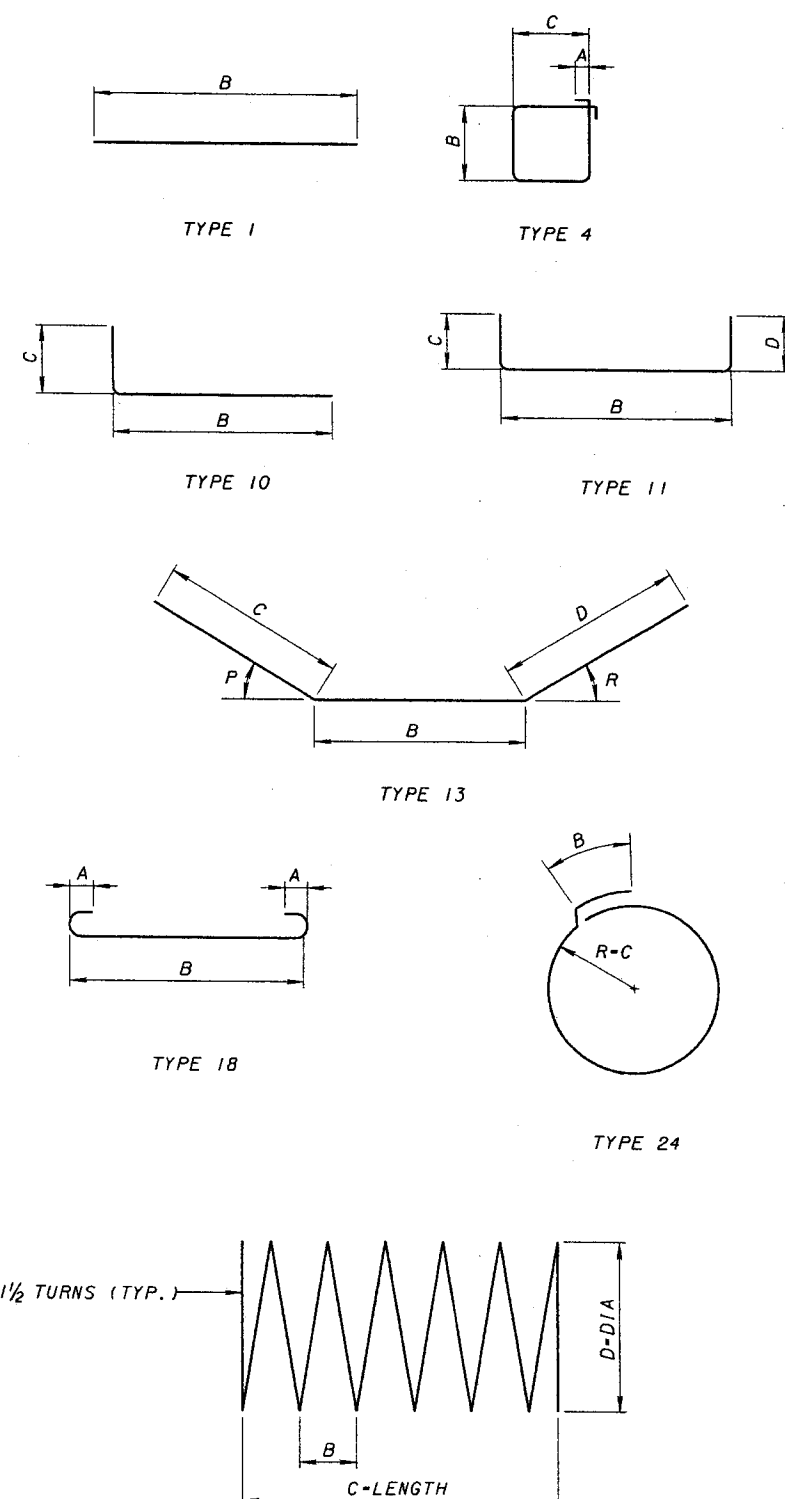
44/180

96
 232

REVISION NO. 4
 NOV. 19, 1999

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MARK	NUMBER	LENGTH (mm)	WEIGHT (kg)	TYPE	DIMENSIONS					P Degrees	R Degrees	DESCRIPTION
					A	B	C	D	E			
SP13M01	30	6875	205.0	39		100	615	250			FOOTING	
SP16M01	1	228525	354.7	39		115	3869	1985			COLUMN	
P16M02	60	2670	248.6	11		788	980	980			CAP	
P16M03	14	3880	84.3	4	155	820	820				CAP	
P16M04	32	4200 TO 5250	234.7	11		1500	1384 TO 1909	1384 TO 1909	35		CAP	
P16M05	32	3450 TO 4500	197.4	11		750	1384 TO 1909	1384 TO 1909	35		CAP	
P16M06	76	2835	334.4	11		1500	700	700			CAP	
P16M07	76	2085	245.9	11		750	700	700			CAP	
P16M08	44	5320 TO 6160	392.0	11		1500	1944 TO 2364	1944 TO 2364	20		CAP	
P16M09	44	4570 TO 5410	340.8	11		750	1944 TO 2364	1944 TO 2364	20		CAP	
P16M10	12	7715	143.7	13		5070	2060	650	11.2	60.4	CAP	
P16M11	12	2240	41.7	13		132	910	1220	45	63.4	CAP	
P16M12	18	2670	74.6	11		1450	650	650			CAP	
P16M13	8	6880	85.4	24		660	990				CAP/COLUMN	
P19M01	180	975	392.2	10		715	305				FOOTING	
P19M02	25	8600	480.5	1		8600					FOOTING	
P19M03	30	7100	476.1	1		7100					FOOTING	
P25M01	2	12800	101.7	1		12800					CAP	
P25M02	2	12620	100.3	1		12620					CAP	
P25M03	2	12435	98.8	1		12435					CAP	
P25M04	2	12255	97.4	1		12255					CAP	
P25M05	2	10165	80.8	1		10165					CAP	
P25M06	2	7400	58.8	1		7400					CAP	
P25M07	2	4640	36.9	1		4640					CAP	
P32M01	32	8600	1184.2	1		8600					FOOTING	
P32M02	39	7100	1191.5	1		7100					FOOTING	
P43M01	10	14035	1598.6	18	675	12900					CAP	
P43M02	10	12920	1471.6	1		12920					CAP	
P43M03	10	12970	1477.3	1		12970					CAP	
P43M04	36	8060	3304.9	10		7394	790				COLUMN	



NOTES:
 1. ALL DIMENSIONS ARE IN MILLIMETERS (mm), EXCEPT AS NOTED.
 2. ALL DIMENSIONS ARE OUT-TO-OUT.

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DESIGN AGENCY
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2501
 CINCINNATI, OH 45202-2720

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 REVISION
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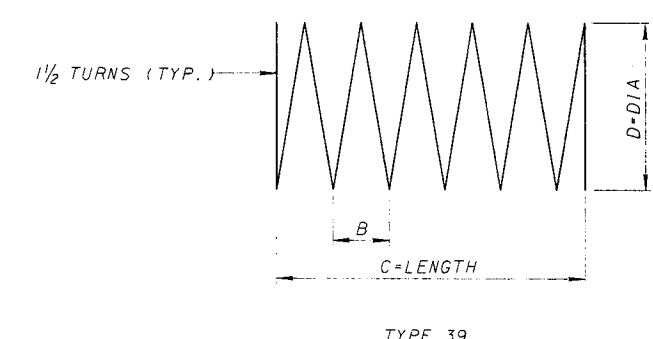
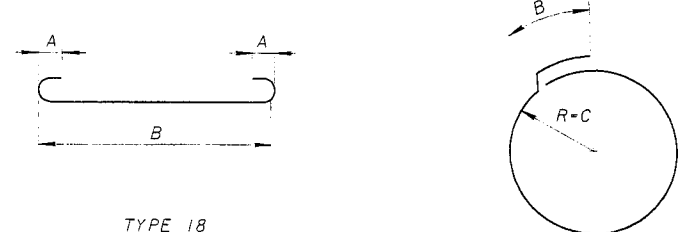
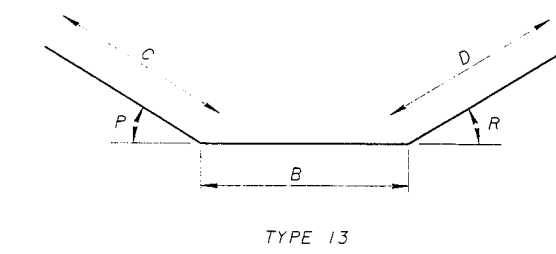
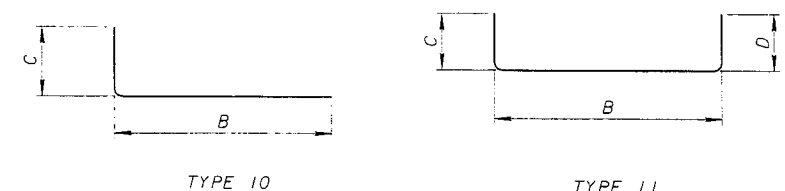
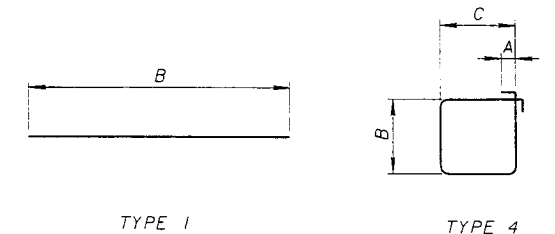
STRUCTURE FILE NUMBER
 3103412

BAR SCHEDULE - PIER 4-1
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

PIER 4-2

MARK	NUMBER	LENGTH (mm)	WEIGHT (kg)	TYPE	DIMENSIONS					P INC. Degrees	R Degrees	DESCRIPTION
					A	B	C	D	E			
SP13M01	36	6875	246.0	39		100	615	250				FOOTING
SP16M01	1	313475	486.5	39		115	5498	1985				COLUMN
P16M02	11	5320	90.8	4	155	1270	1330					CAP
P16M03	8	6880	85.4	24		660	990					CAP/COLUMN
P16M04	12	7895	147.0	13		5248	2060	650	10.8	60.7		CAP
P16M05	12	2240	41.7	13		132	910	1220	45	63.4		CAP
P16M06	16	2670	66.3	11		1450	650	650				CAP
P16M07	45	3350	234.0	11		1330	1050	1050				CAP
P16M08	45	3170	221.4	11		1150	1050	1050				CAP
P19M01	216	975	470.7	10		715	305					FOOTING
P19M02	2	2605	11.6	11		1500	600	600				CAP
P19M03	2	7100	31.7	11		1500	825	825				CAP
P19M04	96	4205 TO 6205	1116.8	11		1500	1400 TO 2400	1400 TO 2400	21			CAP
P19M05	96	2215	475.3	11		750	780	780				CAP
P19M06	100	2965	662.7	11		1500	780	780				CAP
P19M07	96	3455 TO 5455	955.9	11		750	1400 TO 2400	1400 TO 2400	21			CAP
P19M08	60	8600	1153.3	1		8600						FOOTING
P25M01	2	13000	103.3	1		13000						CAP
P25M02	2	12815	101.9	1		12815						CAP
P25M03	2	12625	100.3	1		12625						CAP
P25M04	2	11700	93.0	1		11700						CAP
P25M05	2	8715	69.3	1		8715						CAP
P25M06	2	5735	45.6	1		5735						CAP
P36M01	78	8600	5304.0	1		8600						FOOTING
P43M01	10	14390	1639.0	18	675	13260						CAP
P43M02	10	13280	1512.6	1		13280						CAP
P43M03	10	5750	654.9	1		5750						CAP
P43M04	4	5750	262.0	1		5750						CAP
P43M05	36	9890	4055.3	10		9225	790					COLUMN



NOTES:
 1. ALL DIMENSIONS ARE IN MILLIMETERS (mm), EXCEPT AS NOTED.
 2. ALL DIMENSIONS ARE OUT-TO-OUT.

DESIGN AGENCY PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720	DATE	BY	REVISION	DESCRIPTION
	7-12-99	AR	BAR DIMENSIONS REVISED	
DATE	BY	REVISION	DESCRIPTION	
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3/10/34/12	AR	1		

BAR SCHEDULE - PIER 4-2
 BRIDGE NO. 4
 RAMP B

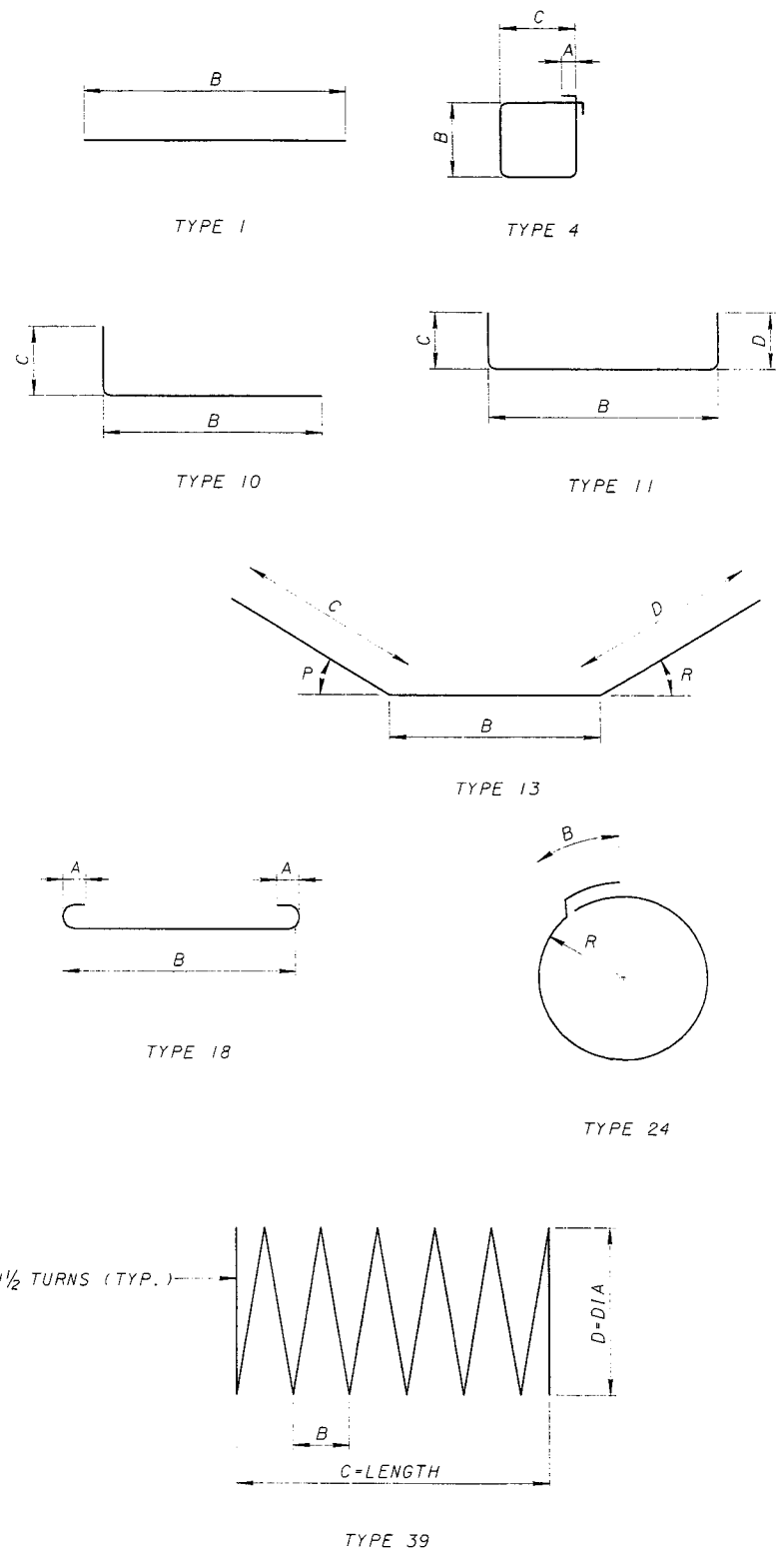
CITY OF CINCINNATI
 CONTRACT No. 75X5753

46/180

ADDENDUM NO. 1
 JULY 12, 1999

PIER 4-3

MARK	NUMBER	LENGTH (mm)	WEIGHT (kg)	TYPE	DIMENSIONS						P Degrees	R Degrees	DESCRIPTION
					A	B	C	D	E	INC.			
SP13M01	36	6875	246.0	39		100	615	250				FOOTING	
SP16M01	1	249480	387.2	39		115	4257	1985				COLUMN	
P16M02	16	2670	66.3	11		1450	650	650				CAP	
P16M03	8	6880	85.4	24		660	990					CAP/COLUMN	
P16M04	12	7715	143.7	13		5070	2060	650	11.2	60.4		CAP	
P16M05	12	2240	41.7	13		132	910	1220	45	63.4		CAP	
P16M06	60	2670	248.6	11		788	980	980				CAP	
P16M07	12	3880	72.3	4	155	820	820					CAP	
P19M01	216	975	470.7	10		715	305					FOOTING	
P19M02	102	2965	675.9	11		1500	780	780				CAP	
P19M03	102	2215	505.0	11		750	780	780				CAP	
P19M04	102	3455 To 5455	1015.6	11		750	1400 TO 2400	1400 TO 2400	20			CAP	
P19M05	102	4205 To 6205	1186.6	11		1500	1400 TO 2400	1400 TO 2400	20			CAP	
P19M06	60	8600	1153.3	1		8600						FOOTING	
P25M01	2	13000	103.3	1		13000						CAP	
P25M02	2	12815	101.9	1		12815						CAP	
P25M03	2	12625	100.3	1		12625						CAP	
P25M04	2	11370	90.4	1		11370						CAP	
P25M05	2	8485	67.4	1		8485						CAP	
P25M06	2	5610	44.6	1		5610						CAP	
P36M01	88	8600	5984.0	1		8600						FOOTING	
P43M01	10	14035	1598.6	18	675	12900						CAP	
P43M02	10	12920	1471.6	1		12920						CAP	
P43M03	10	11500	1309.9	1		11500						CAP	
P43M04	6	5750	393.0	1		5750						CAP	
P43M05	36	8650	3546.8	10		7980	790					COLUMN	



NOTES:
 1. ALL DIMENSIONS ARE IN MILLIMETERS (mm), EXCEPT AS NOTED.
 2. ALL DIMENSIONS ARE OUT-TO-OUT.

DESIGN AGENCY
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM		7-12-99	AR

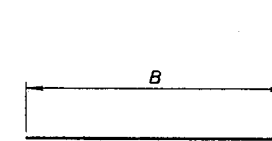
BAR SCHEDULE - PIER 4-3
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

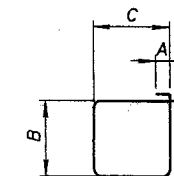
47/180

ADDENDUM NO. 1
JULY 12, 1999

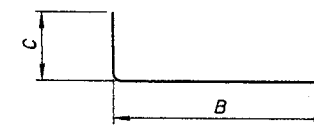
MARK	NUMBER	LENGTH (mm)	WEIGHT (kg)	TYPE	DIMENSIONS					P Degrees	R Degrees	DESCRIPTION
					A	B	C	D	E			
SP13M01	48	6875	328.0	39		100	615	250			FOOTING	
P16M01	14	2705	58.8	13		200	1610	910	63.4	45	CAP	
P16M02	12	2890	53.8	11		1668	650	650			CAP	
P16M03	7	4395	47.7	13		1467	650	2326	64	7.5	CAP	
P16M04	7	3890	42.3	13		961	2326	650	11.1	60.5	CAP	
P16M05	180	4170	1164.9	11		1700	1275	1275			CAP	
P16M06	180	3120	871.6	11		650	1275	1275			CAP	
SP16M07	3	208785	972.1	39		115	4683	1526			COLUMN	
P16M08	30	2620	122.0	11		503	1099	1099			CAP	
P16M09	24	2745	102.2	11		628	1099	1099			CAP	
P16M10	45	2905	202.9	11		888	1048	1048			CAP	
P16M11	53	3285	270.2	11		1268	1048	1048			CAP	
P16M12	27	2855	119.6	11		838	1048	1048			CAP	
P16M13	12	2500	46.6	4	155	535	660				CAP	
P16M14	10	4550	70.6	4	155	920	1300				CAP	
P16M15	6	4450	41.4	4	155	870	1300				CAP	
P19M01	288	980	630.8	10		715	305				FOOTING	
P19M02	120	5600	1501.9	1		5600					FOOTING	
P29M01	114	5600	3230.3	1		5600					FOOTING	
P29M02	10	10280	520.2	12		5140	5140		19.1		CAP	
P29M03	20	9790 TO 10290	1016.0	1		9790 TO 10290			125		CAP	
P36M01	10	12010	949.6	17	325	11538					CAP	
P36M02	10	11970	946.5	12		5985	5985		19.1		CAP	
P36M03	10	11495	908.9	17	325	11026					CAP	
P36M04	6	4870	231.0	1		4870					CAP	
P36M05	6	7000	332.1	12		3500	3500		19.1		CAP	
P36M06	6	4355	206.6	1		4355					CAP	
P36M07	22	9140	1589.9	1		9140					CAP	
P36M08	7	6835	378.3	12		3418	3418		19.1		CAP	
P36M09	66	8320	4341.9	10		7813	610				COLUMN	



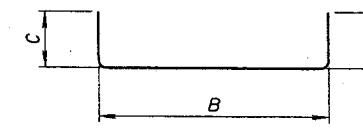
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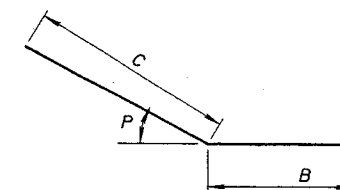
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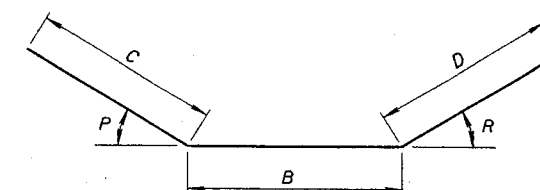
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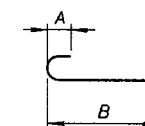
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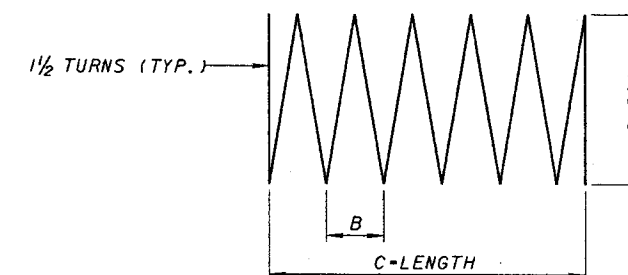
TYPE 12



TYPE 13



TYPE 17



TYPE 39

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (mm), EXCEPT AS NOTED.
2. ALL DIMENSIONS ARE OUT-TO-OUT.

\$\$\$time\$\$\$

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DESIGN AGENCY
PP
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

DATE
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 STRUCTURE FILE NUMBER
 3103412

DESIGNED
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 CHECKED
 AR

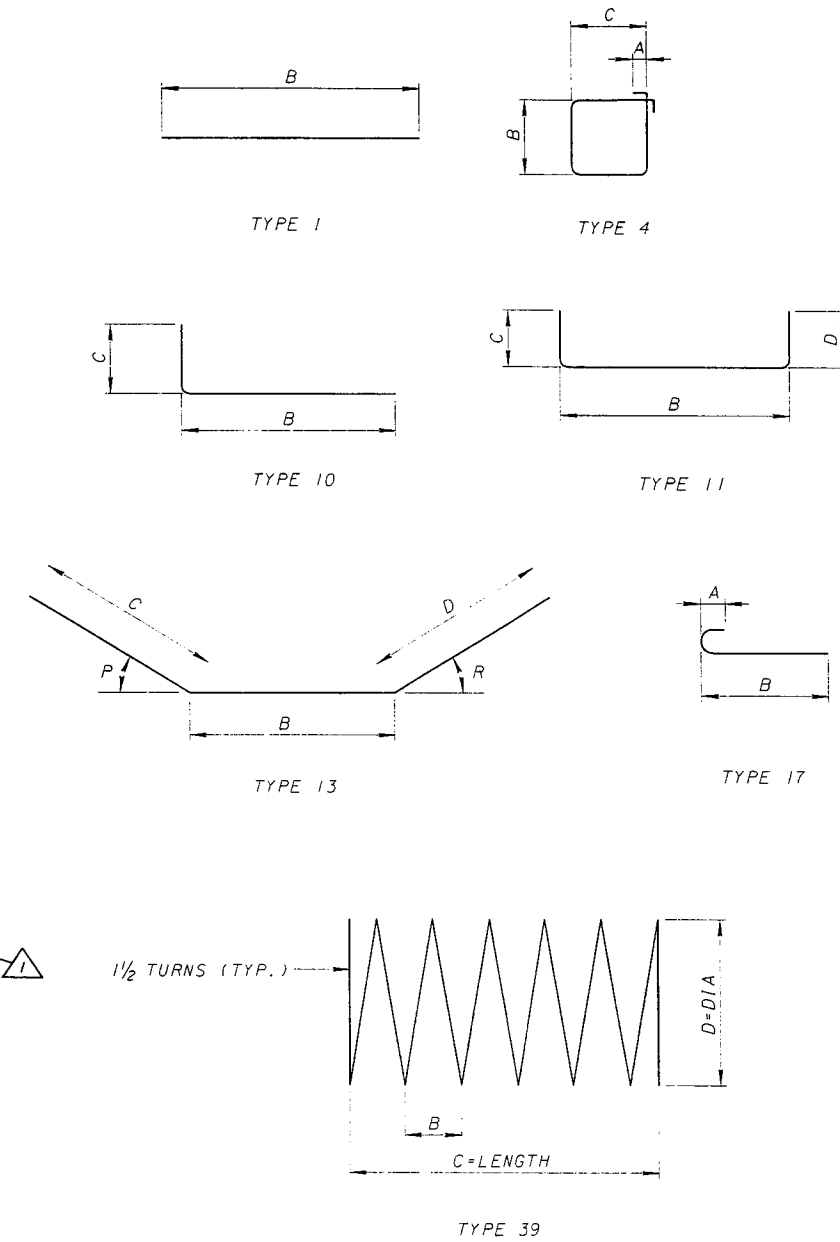
DRAWN
 JLR
 REVISIONS

BAR SCHEDULE - PIER 4-4
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

PIER 4-5

MARK	NUMBER	LENGTH (mm)	WEIGHT (kg)	TYPE	DIMENSIONS						P Degrees	R Degrees	DESCRIPTION
					A	B	C	D	E	INC.			
SP13M01	40	6875	273.4	39		100	615	250				FOOTING	
P16M01	14	6738	146.4	13		3780	2326	650		12.1	59.5	CAP	
P16M02	14	2070	45.0	13		190	990	910		63.4	45	CAP	
P16M03	132	4170	854.3	11		1700	1275	1275				CAP	
P16M04	132	2995	613.6	11		525	1275	1275				CAP	
P16M05	10	2920	45.3	11		1700	650	650				CAP	
P16M06	100	3400 TO 4170	587.4	11		1700	890 TO 1275	890 TO 1275		19		CAP	
P16M07	100	2225 TO 2995	405.1	11		525	890 TO 1275	890 TO 1275		19		CAP	
SP16M08	2	275220	854.3	39		115	6288	1526				COLUMN	
P16M09	70	2925	317.8	11		1238	883	883				CAP	
P16M10	63	2985	291.9	11		1298	883	883				CAP	
P16M11	18	5310	148.3	4	155	1270	1330					CAP	
P19M01	240	975	523.0	10		715	305					FOOTING	
P19M02	50	5600	625.8	1		5600						FOOTING	
P19M03	40	7100	634.7	1		7100						FOOTING	
P29M01	12	11090	673.4	1		11090						CAP	
P29M02	4	9560	193.5	1		9560						CAP	
P29M03	4	8315	168.3	1		8315						CAP	
P36M01	20	12110	1915.1	17	325	11964						CAP	
P36M02	32	8760	2216.5	1		8760						CAP	
P36M03	10	9140	722.7	1		9140						CAP	
P36M04	44	9925	3453.0	10		9418	610					COLUMN	
P36M05	40	5600	1771.2	1		5600						FOOTING	
P36M06	44	7100	2470.1	1		7100						FOOTING	



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (mm), EXCEPT AS NOTED.
2. ALL DIMENSIONS ARE OUT-TO-OUT.

REVISION NO.	DESCRIPTION	DATE	BY
ADDDUM A	BAR DIMENSIONS REVISED	7-12-99	AR
	DESIGNED	DATE	
	DRAWN	REVIEWED	
	OD	JLR	
	REVIEWED	JWM	
	FILE NUMBER	3103412	

BAR SCHEDULE - PIER 4-5
BRIDGE NO. 4
RAMP B

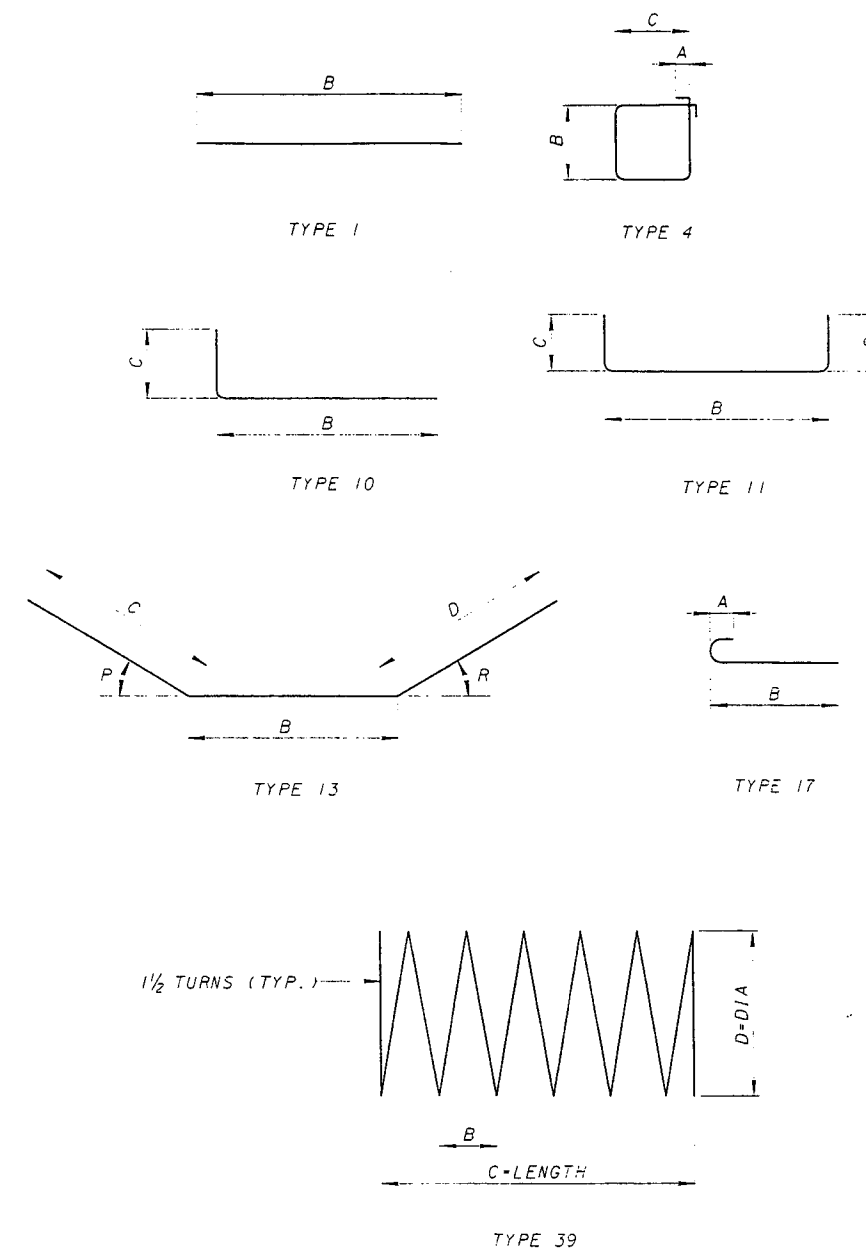
CITY OF CINCINNATI
CONTRACT No. 75X5753

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720



PIER 4-6

MARK	NUMBER	LENGTH (mm)	WEIGHT (kg)	TYPE	DIMENSIONS					P Degrees	R Degrees	DESCRIPTION
					A	B	C	D	E			
SP13M01	32	6875	218.7	39		100	615	250			FOOTING	
P16M01	14	2070	45.0	13		190	985	910	63.4	45	CAP	
P16M02	8	2890	35.9	11		1668	650	650			CAP	
P16M03	14	6475	140.7	13		3517	2326	650	12.6	58.9	CAP	
P16M04	16	3980	98.8	4	155	735	1200				CAP	
P16M05	102	4170	660.1	11		1700	1275	1275			CAP	
P16M06	102	3170	501.8	11		700	1275	1275			CAP	
P16M07	72	3390 TO 4170	422.4	11		1700	884 TO 1275	884 TO 1275	23		CAP	
P16M08	72	2390 TO 3170	323.8	11		700	884 TO 1275	884 TO 1275	23		CAP	
SP16M09	2	336905	1045.8	39		115	7842	1526			COLUMN	
P16M10	10	2990	46.4	11		1343	863	863			CAP	
P16M11	20	2324	72.1	11		678	863	863			CAP	
P16M12	4	4280	26.6	4	155	1375	710				CAP	
P16M13	64	2335	231.9	11		703	855	855			CAP	
P16M14	40	2800	173.8	11		1168	855	855			CAP	
P19M01	192	975	418.4	10		715	305				FOOTING	
P19M02	80	5600	1001.3	1		5600					FOOTING	
P29M01	76	5600	2153.5	1		5600					FOOTING	
P29M02	12	10870	660.0	1		10870					CAP	
P29M03	4	8400	170.0	1		8400					CAP	
P29M04	4	7525	152.3	1		7525					CAP	
P36M01	20	12265	1939.6	17	325	11793					CAP	
P36M02	20	8590	1358.4	1		8590					CAP	
P36M03	7	9145	506.2	1		9145					CAP	
P36M04	44	11480	3994.0	10		10972	610				COLUMN	



NOTES:

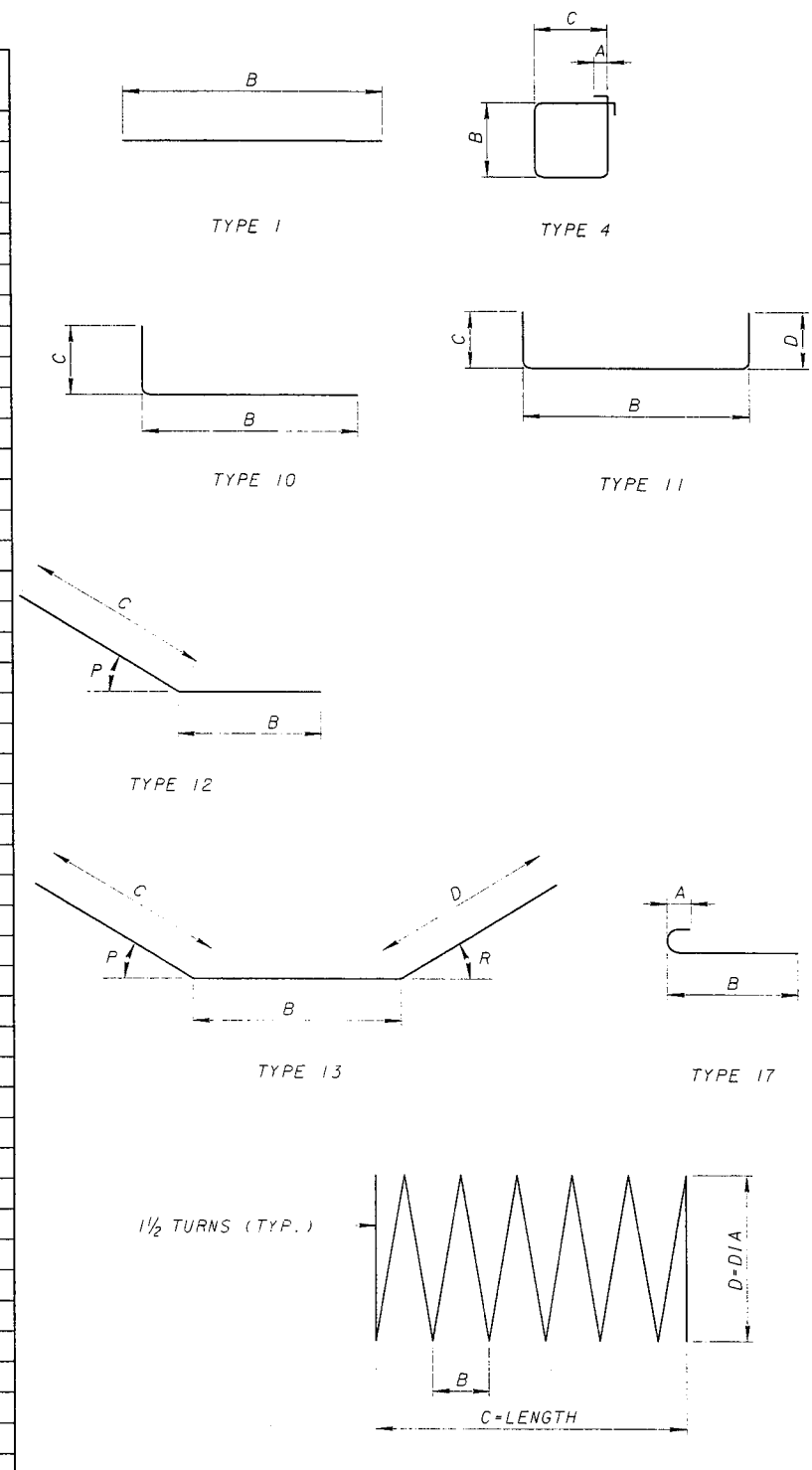
1. ALL DIMENSIONS ARE IN MILLIMETERS (mm), EXCEPT AS NOTED.
2. ALL DIMENSIONS ARE OUT-TO-OUT.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM	BAR DIMENSIONS	7-12-99	AR
	REVISED		
	BY: JLR		
	BY: JWR		
	BY: JWM		

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC., 312 ELM STREET, SUITE 2500, CINCINNATI, OH 45202-2720
 BAR SCHEDULE - PIER 4-6
 BRIDGE NO. 4
 RAMPI 13
 CONTRACT No. 75X5753
 CITY OF CINCINNATI
 50/100
 102
 232

PIER 4-7

MARK	NUMBER	LENGTH (mm)	WEIGHT (kg)	TYPE	DIMENSIONS						P Degrees	R Degrees	DESCRIPTION
					A	B	C	D	E	INC.			
SP13M01	85	6875	580.9	39		100	615	250				FOOTING	
P16M01	14	2390	51.9	13		191	1312	910		63.4	45	CAP	
P16M02	14	2890	62.8	11		1668	650	650				CAP	
P16M03	7	7730	84.0	13		4770	650	2326		59.6	12	CAP	
P16M04	7	6915	75.1	13		3949	2326	650		14.5	57.1	CAP	
SP16M05	3	322670	1502.4	39		115	7481	1526				COLUMN	
P16M06	132	2870	588.0	11		788	1081	1081				CAP	
P16M07	27	3390	142.1	4	155	820	820					CAP	
P19M01	510	980	1117.1	10		715	305					FOOTING	
P19M02	110	7100	1745.5	1		7100						FOOTING	
P19M03	50	8600	961.1	1		8600						FOOTING	
P19M04	68	3785 TO 4775	650.5	11		1700	1090 TO 1585	1090 TO 1585	15			CAP	
P19M05	68	2705 TO 3695	486.3	11		620	1090 TO 1585	1090 TO 1585	15			CAP	
P19M06	60	3785 TO 4770	573.6	11		1700	1090 TO 1583	1090 TO 1583	17			CAP	
P19M07	60	2705 TO 3690	428.8	11		620	1090 TO 1583	1090 TO 1583	17			CAP	
P19M08	310	4785	3315.3	11		1700	1590	1590				CAP	
P19M09	310	3705	2567.0	11		620	1590	1590				CAP	
P29M01	64	7100	2299.3	1		7100						FOOTING	
P32M01	18	12000	1383.3	1		12000						CAP	
P32M02	12	12280	943.7	1		12280						CAP	
P32M03	6	9320 TO 10920	388.9	1		9320 TO 10920			800			CAP	
P32M04	18	5110	589.0	12		2700	2410		12.31			CAP	
P32M05	12	11450	879.9	1		11450						CAP	
P32M06	6	7940 TO 9885	342.5	1		7940 TO 9885			972			CAP	
P36M01	66	11415	5957.1	10		10911	610					COLUMN	
P36M02	64	8600	4352.0	1		8600						FOOTING	
P36M03	58	7100	3256.1	1		7100						FOOTING	
P36M04	18	10640	1514.3	12		5670	4970		12.31			CAP	
P36M05	18	9500	1352.1	1		9500						CAP	
P36M06	9	6840	486.8	1		6840						CAP	
P43M01	10	14140	1610.5	1		14140						CAP	
P43M02	10	14375	1637.3	17	405	13698						CAP	
P43M03	10	10815	1231.8	12		5450	5365		12.31			CAP	
P43M04	10	12255	1395.8	17	405	11578						CAP	
P43M05	14	9430	1503.7	1		9430						CAP	
P43M06	14	8590	1369.8	1		8590						CAP	



NOTES:
 1. ALL DIMENSIONS ARE IN MILLIMETERS (mm), EXCEPT AS NOTED.
 2. ALL DIMENSIONS ARE OUT-TO-OUT.

DESIGN AGENCY
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

REVISION NO. **ADDENDUM**

DESCRIPTION
REPLACEMENT SHEET

DATE BY AR
 7-12-99

REVISIONS:
 DESIGNED: JWM
 CHECKED: AR
 DRAWN: JLR
 REVIEWED: AR

PIER 4-7
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

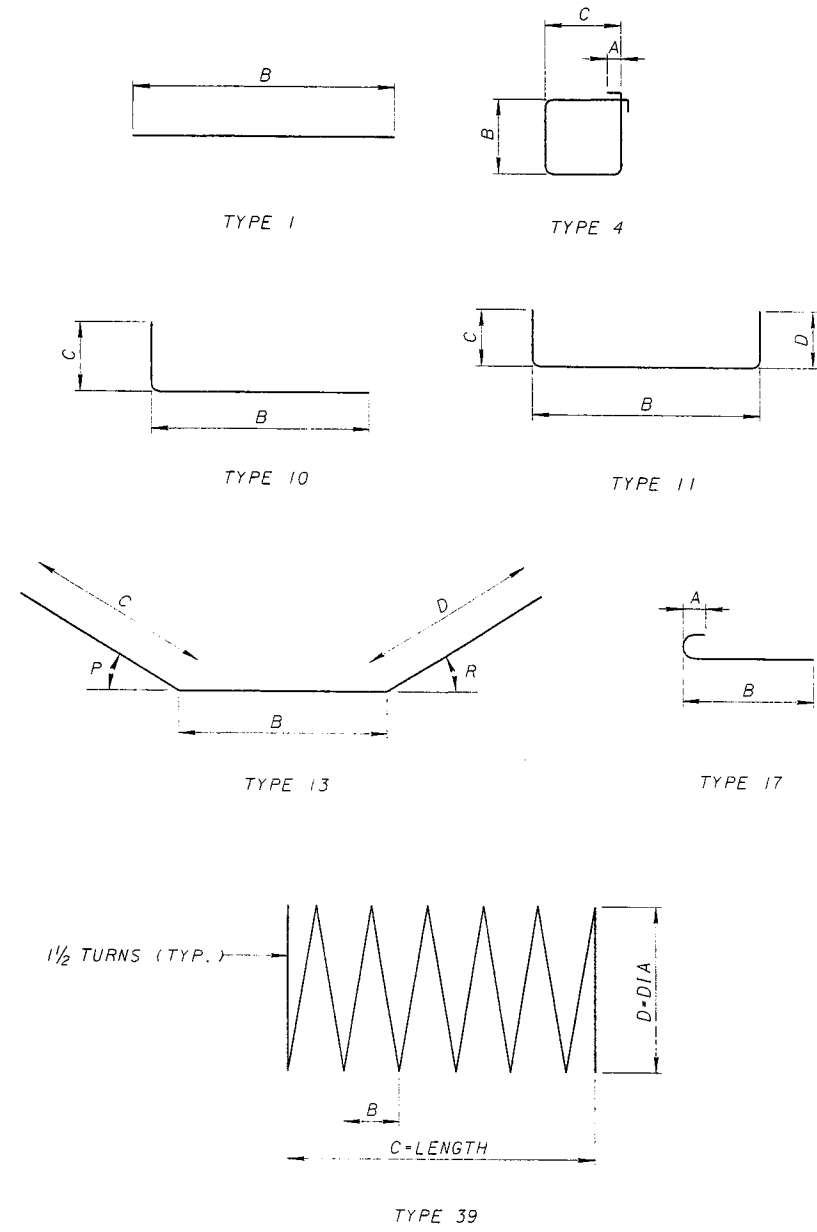
51 / 180

ADDENDUM NO. 1
 JULY 12, 1999

103
 232

PIER 4-8

MARK	NUMBER	LENGTH (mm)	WEIGHT (kg)	TYPE	DIMENSIONS					P Degrees	R Degrees	DESCRIPTION
					A	B	C	D	E			
SP13M01	40	6875	273.4	39		100	615	250			FOOTING	
P16M01	14	2705	58.8	13		190	1620	910	63.4	45	CAP	
P16M02	14	2920	63.4	11		1700	650	650			CAP	
P16M03	7	4490	48.8	13		1531	650	2326	64	7.6	CAP	
P16M04	7	3760	40.8	13		804	2326	650	14.8	56.8	CAP	
P16M05	282	4170	1825.1	11		1700	1275	1275			CAP	
P16M06	282	3300	1444.3	11		828	1275	1275			CAP	
SP16M07	3	341650	1590.7	39		115	7880	1526			COLUMN	
P16M08	81	2960	372.1	11		1218	909	909			CAP	
P16M09	81	3020	379.7	11		1298	909	909			CAP	
P16M10	16	5430	134.8	4	155	1250	1310				CAP	
P19M01	240	975	523.0	10		715	305				FOOTING	
P19M02	84	4100	769.7	1		4100					FOOTING	
P19M03	70	5600	876.1	1		5600					FOOTING	
P25M01	14	11080	616.4	1		11080					CAP	
P25M02	14	10090	561.4	1		10090					CAP	
P25M03	14	9620	535.2	1		9620					CAP	
P29M01	70	5600	1983.5	1		5600					FOOTING	
P36M01	10	11600	917.2	17	325	11130					CAP	
P36M02	10	10140	801.8	17	325	9670					CAP	
P36M03	10	14670	1160.0	1		14670					CAP	
P36M04	4	5740	181.5	1		5740					CAP	
P36M05	6	7500	355.8	1		7500					CAP	
P36M06	4	4995	158.0	1		4995					CAP	
P36M07	16	10670	1349.9	1		10670					CAP	
P36M08	16	9450	1195.5	1		9450					CAP	
P36M09	4	6800	215.1	1		6800					CAP	
P36M10	72	11515	6555.5	10		11010	610				COLUMN	



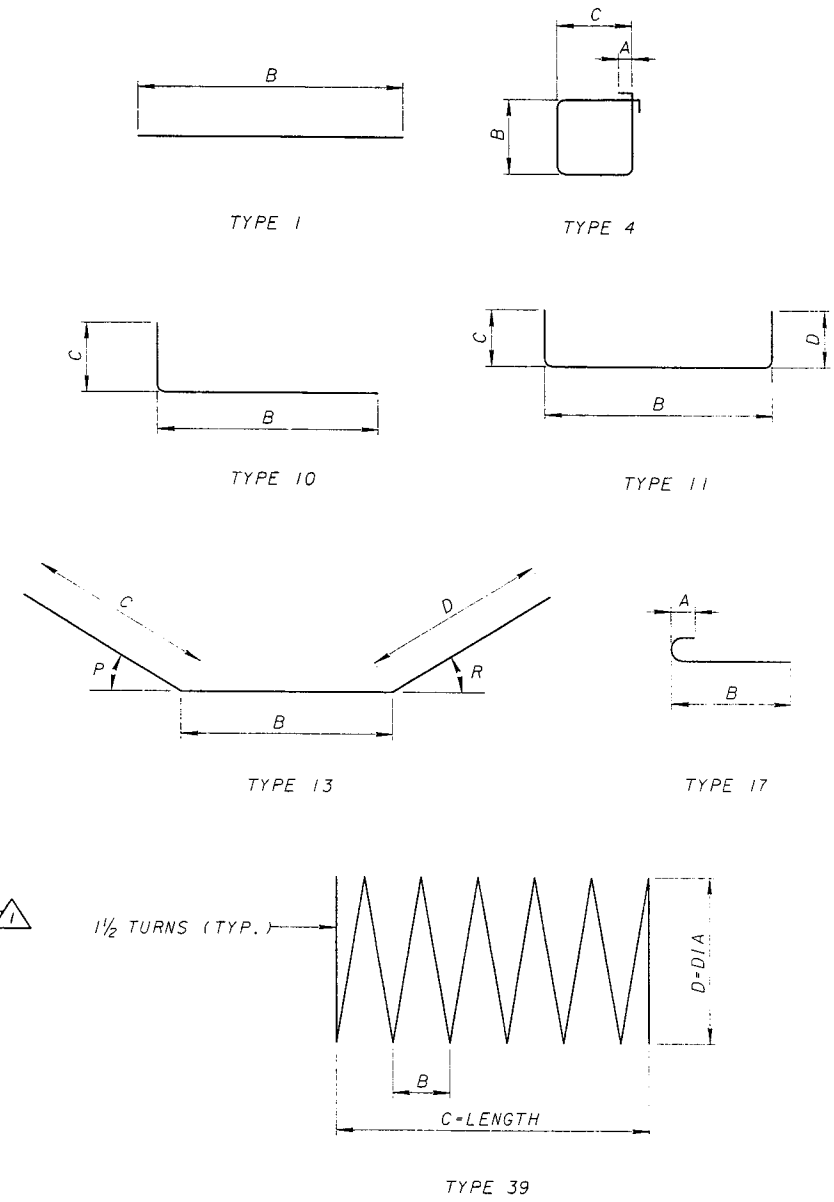
NOTES:

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- ALL DIMENSIONS ARE OUT-TO-OUT.

DESIGN AGENCY PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720	DATE 7-12-99	BY AR	REVISION NO. ADDENDUM 1	DESCRIPTION BAR DIMENSIONS REVISED	REVIEWED	DATE
					DATE	AR
CITY OF CINCINNATI CONTRACT NO. 75X5753	BAR SCHEDULE - PIER 4-8 BRIDGE NO. 4 RAMP B	DESIGNED	JLR	REVIEWED	3/03/12	
		DRAWN	JLR	REVIEWED	3/03/12	

PIER 4-9

MARK	NUMBER	LENGTH (mm)	WEIGHT (kg)	TYPE	DIMENSIONS					INC.	P Degrees	R Degrees	DESCRIPTION
					A	B	C	D	E				
SP13M01	48	6875	328.0	39		100	615	250				FOOTING	
P16M01	14	2715	59.0	13		191	1630	910		63.4	45	CAP	
P16M02	14	2920	63.4	11		1700	650	650				CAP	
P16M03	14	3590	78.0	13		630	2326	650		19.1	52.5	CAP	
P16M04	244	4170	1579.1	11		1700	1275	1275				CAP	
P16M05	244	3120	1181.5	11		650	1275	1275				CAP	
SP16M06	3	346395	1612.8	39		115	8066	1526				COLUMN	
P16M07	96	2465	367.3	11		785	880	880				CAP	
P16M08	13	3390	68.4	4	155	820	820					CAP	
P19M01	288	980	630.8	10		715	305					FOOTING	
P19M02	120	5600	1501.9	1		5600						FOOTING	
P25M01	10	10160	403.8	1		10160						CAP	
P25M02	10	10590	420.8	1		10590						CAP	
P25M03	10	8940	355.3	1		8940						CAP	
P29M01	114	5600	2537.0	1		5600						FOOTING	
P36M01	10	10680	844.5	17	325	10210						CAP	
P36M02	10	9460	748.0	17	325	8990						CAP	
P36M03	10	15170	1199.5	1		15170						CAP	
P36M04	8	8000	506.0	1		8000						CAP	
P36M07	18	10670	1518.6	1		10670						CAP	
P36M08	18	9450	1345.0	1		9450						CAP	
P36M09	5	6800	268.8	1		6800						CAP	
P36M10	66	11700	6105.8	10		11196	610					COLUMN	

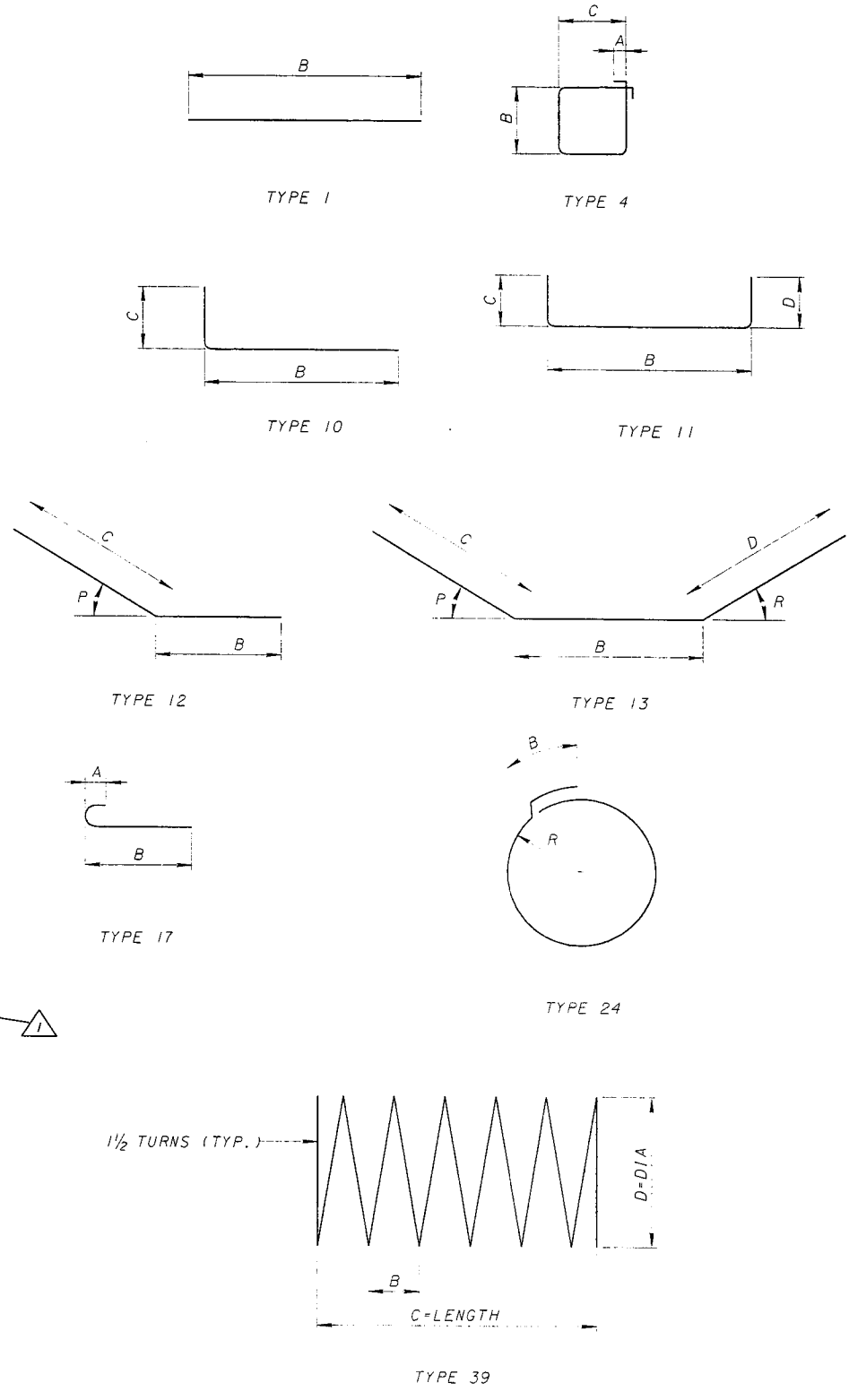


NOTES:
 1. ALL DIMENSIONS ARE IN MILLIMETERS (mm), EXCEPT AS NOTED.
 2. ALL DIMENSIONS ARE OUT-TO-OUT.

DESIGN AGENCY PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720	DATE	BY
	7-12-99	AR
REVISION NO.	DESCRIPTION	BAR DIMENSIONS
APPENDUM A		
BAR SCHEDULE - PIER 4-9 BRIDGE NO. 4 RAMP B		
CITY OF CINCINNATI CONTRACT No. 75X5753		
53	180	
ADDENDUM NO. 1 JULY 12, 1999		

PIER 4-10

MARK	NUMBER	LENGTH (mm)	WEIGHT (kg)	TYPE	DIMENSIONS						P Degrees	R Degrees	DESCRIPTION
					A	B	C	D	E	INC.			
SP13M01	48	6875	328.0	39		100	615	250				FOOTING	
SP16M01	3	360620	1679.0	39		115	8353	1526				COLUMN	
P16M02	12	4150	77.3	4	155	1310	710					CAP	
P16M03	240	4170	1553.2	11		1700	1275	1275				CAP	
P16M04	NOT USED												
P16M05	240	3120	1162.1	11		650	1275	1275				CAP	
P16M06	NOT USED												
P16M07	NOT USED												
P16M08	NOT USED												
P16M09	14	3590	78.0	13		630	2326	650	17.3	54.3		CAP	
P16M10	14	2715	59.0	13		191	1630	910	63.4	45		CAP	
P16M11	14	2920	63.4	11		1700	650	650				CAP	
P16M12	24	3000	111.7	11		1318	881	881				CAP	
P16M13	40	2410	149.6	11		728	881	881				CAP	
P16M14	8	4330	53.8	4	155	1350	760					CAP	
P16M15	80	2444	303.4	11		678	923	923				CAP	
P16M16	40	3045	189.0	11		1278	923	923				CAP	
P19M01	288	975	627.6	10		715	305					FOOTING	
P19M02	120	5600	1501.9	1		5600						FOOTING	
P25M01	42	9980	1665.7	1		9980						CAP	
P29M01	114	5600	3230.3	1		5600						FOOTING	
P36M01	66	11990	6257.1	10		11483	610					CAP	
P36M02	10	12180	963.1	17	325	11710						CAP	
P36M03	10	10960	866.6	17	325	10490						CAP	
P36M04	16	12170	1539.7	1		12170						CAP	
P36M05	16	9450	1195.5	1		9450						CAP	
P36M06	16	10670	1349.9	1		10670						CAP	
P36M07	4	6800	215.1	1		6800						CAP	



NOTES:
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 2. ALL DIMENSIONS ARE OUT-TO-OUT.

DESIGN AGENCY
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

REVISION NO. ADDENDUM 1

DESCRIPTION BAR DIMENSIONS REVISED

DATE 7-12-99

BY MA

REVIEWED JLR

DATE 7-12-99

REVIEWED VJR

PROJECT FILE NUMBER 3703412

BAR SCHEDULE - PIER 4-10
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

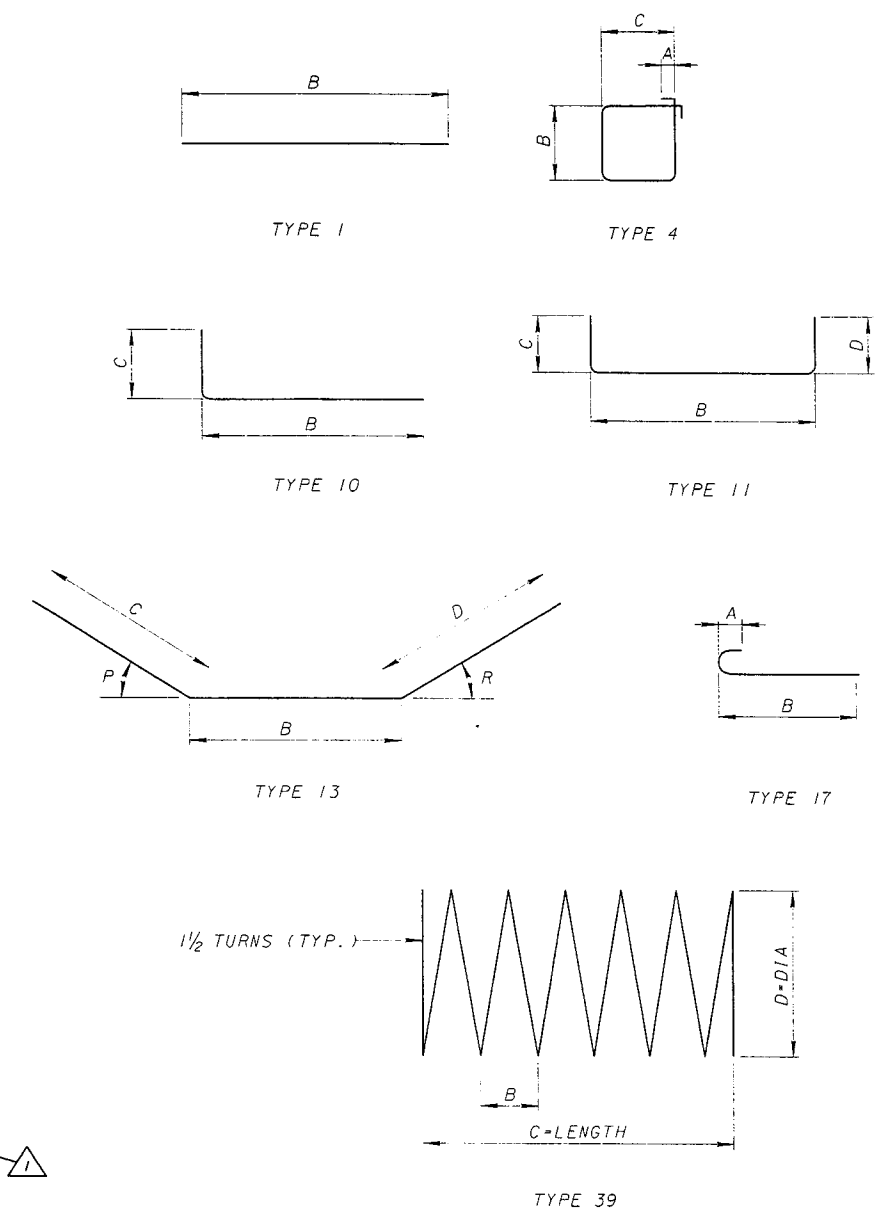
54 / 180

106
 232

ADDENDUM NO. 1
 JULY 12, 1999

PIER 4-11

MARK	NUMBER	LENGTH (mm)	WEIGHT (kg)	TYPE	DIMENSIONS					INC.	P Degrees	R Degrees	DESCRIPTION
					A	B	C	D	E				
SP13M01	57	6875	389.5	39		100	615	250				FOOTING	
P16M01	14	2725	59.2	13		191	1643	910		63.4	45	CAP	
P16M02	14	2920	63.4	11		1700	650	650				CAP	
P16M03	14	3935	85.5	13		976	2326	650		36.1	35.5	CAP	
SP16M04	3	298950	1391.9	39		115	6896	1526				COLUMN	
P16M05	72	2915	325.7	11		1295	850	850				CAP	
P16M06	80	2855	354.5	11		1235	850	850				CAP	
P16M07	20	5310	164.8	4	155	1270	1330					CAP	
P19M01	342	980	749.1	10		715	305					FOOTING	
P19M02	80	5600	1001.3	1		5600						FOOTING	
P19M03	168	2155	809.2	11		650	800	800				CAP	
P19M04	168	4355	1635.2	11		650	1900	1900				CAP	
P19M05	168	3205	1203.4	11		1700	800	800				CAP	
P19M06	168	5405	2029.5	11		1700	1900	1900				CAP	
P19M07	8	4170	74.6	11		1700	1275	1275				CAP	
P19M08	8	3120	55.8	11		650	1275	1275				CAP	
P19M09	50	7100	793.4	1		7100						FOOTING	
P25M01	30	10000	1192.2	1		10000						CAP	
P29M01	76	5600	1691.3	1		5600						FOOTING	
P32M01	64	7100	2910.0	1		7100						FOOTING	
P36M01	10	12360	977.3	17	325	11890						CAP	
P36M02	10	11340	896.7	17	325	10870						CAP	
P36M03	24	11970	2271.5	1		11970						CAP	
P36M04	24	9450	1793.3	1		9450						CAP	
P36M05	24	10670	2024.8	1		10670						CAP	
P36M06	10	6800	537.7	1		6800						CAP	
P36M07	66	10530	5495.2	10		10026	610					COLUMN	



NOTES:
 1. ALL DIMENSIONS ARE IN MILLIMETERS (mm), EXCEPT AS NOTED.
 2. ALL DIMENSIONS ARE OUT-TO-OUT.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

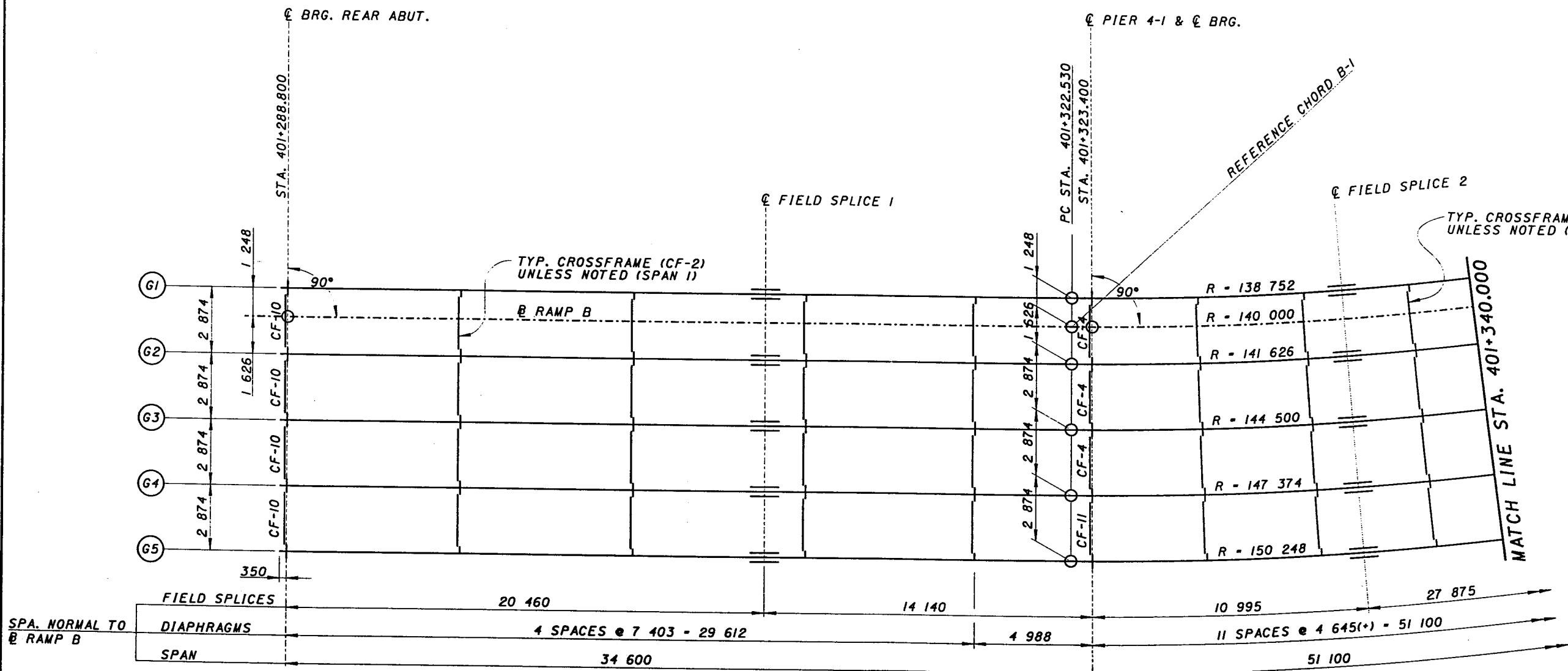
REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	BAR DIMENSIONS REVISED	7-12-99	AR

BAR SCHEDULE - PIER 4-11
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

55 / 180

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 02/3/99
 3:13:32:00 1999
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 02/3/99
 3:13:32:00 1999



NOTES:

1. SEE SHEET 2/180 FOR GENERAL NOTES.
2. WHERE A SHAPE OR PLATE IS DESIGNATED (CVN) THE MATERIAL SHALL MEET MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN 711.01 OF CMS.
3. WELDED ATTACHMENT OF SUPPORTS FOR CONCRETE DECK FINISHING MACHINE MAY BE MADE TO AREAS OF THE INTERIOR GIRDER FLANGES DESIGNATED "COMPRESSION". ATTACHMENTS SHALL NOT BE MADE TO AREAS DESIGNATED "TENSION". FILLET WELDS TO COMPRESSION FLANGES SHALL NOT BE CLOSER THAN 25 mm FROM EDGE OF FLANGE, AND NOT BE MORE THAN 50 mm LONG, AND NOT BE SMALLER THAN THE MINIMUM SIZE REQUIRED BY AASHTO.
4. INTERMEDIATE TRANSVERSE STIFFENER PLATES SHALL BE PLACED ON THE INSIDE FACE OF THE WEB ON ALL FASCIA GIRDERS.
5. SPACING SHOWN FOR CROSSFRAME DIAPHRAGMS IS TO THE CENTER OF THE CONNECTION PLATE.
6. EQUALLY SPACE INTERMEDIATE TRANSVERSE STIFFENERS BETWEEN CROSSFRAME DIAPHRAGMS UNLESS NOTED OTHERWISE.
7. LOCATION OF WEB SPLICES SHALL BE CLEARLY LOCATED ON SHOP DRAWINGS.
8. BEARING STIFFENERS AND ENDS OF GIRDERS TO BE VERTICAL AFTER TOTAL DEAD LOAD IS APPLIED.
9. SPLICES AND INTERMEDIATE STIFFENERS TO BE NORMAL TO GIRDERS
10. SEE SHEETS 112/180 THRU 118/180 FOR DEFLECTION AND CAMBER DETAILS AND SHEETS 13/180 & 14/180 FOR REFERENCE CHORD LAYOUT.
11. ALL DIAPHRAGMS ARE PERPENDICULAR TO RAMP B/L EXCEPT AS NOTED.
12. ALL BEAMS ARE PARALLEL TO RAMP B/L EXCEPT AS NOTED.
13. DIAPHRAGMS ARE MEASURED FROM CENTER LINE OF BEAM WEB TO CENTER LINE OF BEAM WEB.
14. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A709M GRADE 345.
15. ALL BOLTS TO BE HIGH STRENGTH GALVANIZED 25mm DIA. ASTM A325M, UNLESS NOTED OTHERWISE.
16. ALL MAIN LOAD CARRYING MEMBERS REQUIRE CHARTY - V NOTCH (CVN) TESTING. THESE MEMBERS INCLUDE GIRDER AND END DIAPHRAGM FLANGE PLATES AND WEB PLATES, BOLTED SPLICE PLATES (EXCLUDING FILL PLATES), CROSS FRAME SHAPES AND PLATES, DIAPHRAGM FLANGE PLATES AND WEB PLATES, AND CROSS FRAME AND DIAPHRAGM CONNECTION PLATES AND ANGLES.
17. ERECTION BOLTS: THE HOLE DIAMETER IN CROSS FRAMES AND BEAM STIFFENERS SHALL BE 4mm LARGER THAN THE DIAMETER OF THE ERECTION BOLTS. UNLESS REPLACED BY PERMANENT HIGH STRENGTH BOLTS, ERECTION BOLTS SHALL REMAIN IN PLACE. FULLY TORQUE ALL HIGH STRENGTH BOLTS.
18. ROWS OF SHEAR CONNECTORS SHALL BE ALIGNED PARALLEL TO THE TRANSVERSE SLAB REINFORCEMENT BARS.
19. BOLTS TO BE INCLUDED IN THE WEIGHT OF STRUCTURAL STEEL.
20. WEB AND FLANGE PLATES SHALL BE FURNISHED IN AVAILABLE MILL LENGTHS WITH A MINIMUM NUMBER OF WELDED SHOP SPLICES. LOCATION OF WELDED SHOP SPLICES SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND SHALL BE A MINIMUM OF 300mm FROM STIFFENERS OR FLANGE SPLICES. HEAVIER PLATES MAY BE EXTENDED AT THE CONTRACTORS OPTION AT NO ADDITIONAL COST.
21. FULL ASSEMBLY REAMING WILL BE REQUIRED FOR THE BEAM SPLICES.
22. FLANGE PLATES FOR BEAMS SHALL BE CUT TO PROPER CURVATURE.

**REVISION NO. 3
SEPT 7, 1999**

REVISION NO.	DESCRIPTION	DATE	BY
3	EDIT NOTE 16	9-7-99	MCG

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

FRAMING PLAN - 1
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT NO. 75X5753

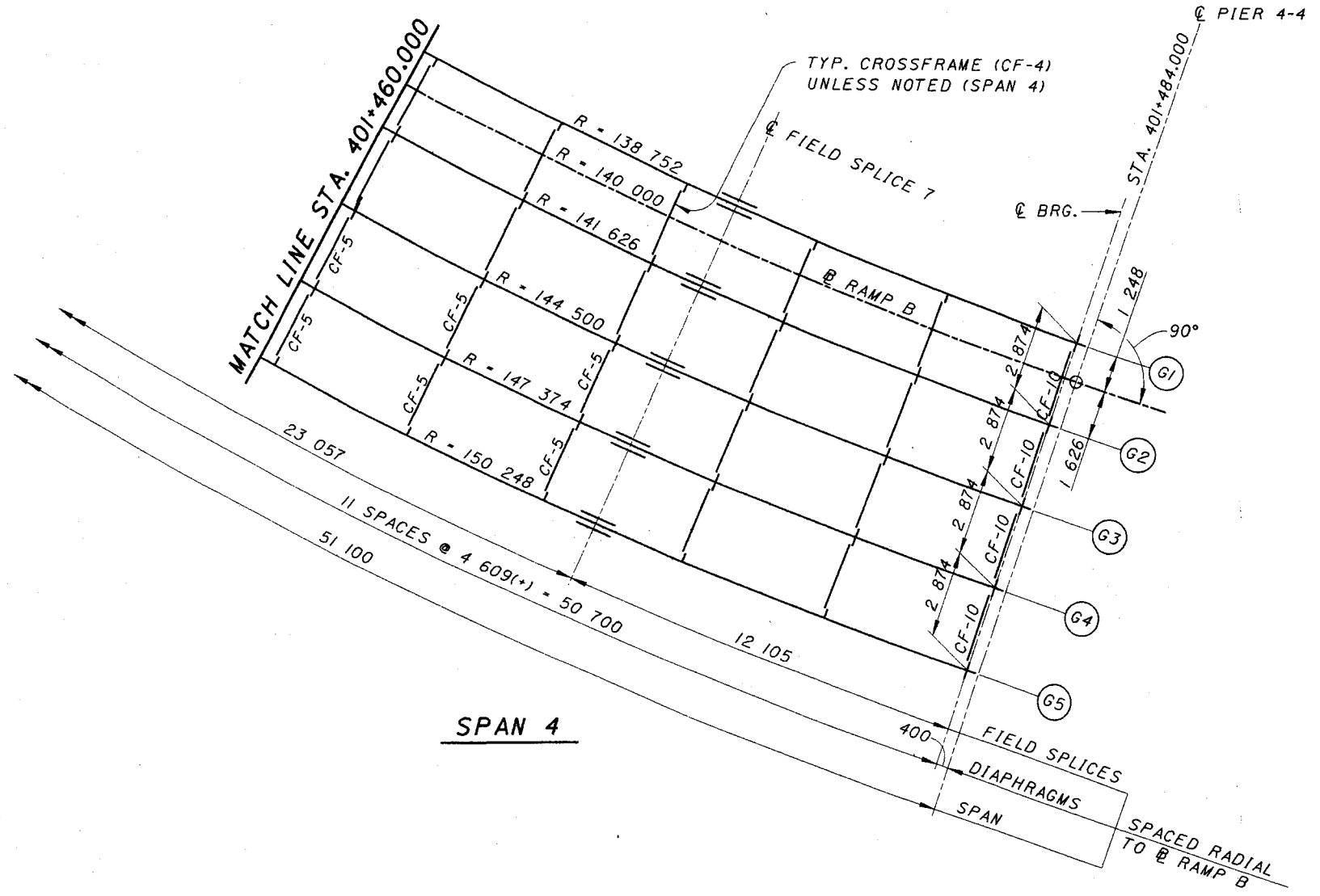
57/180
 109
 232

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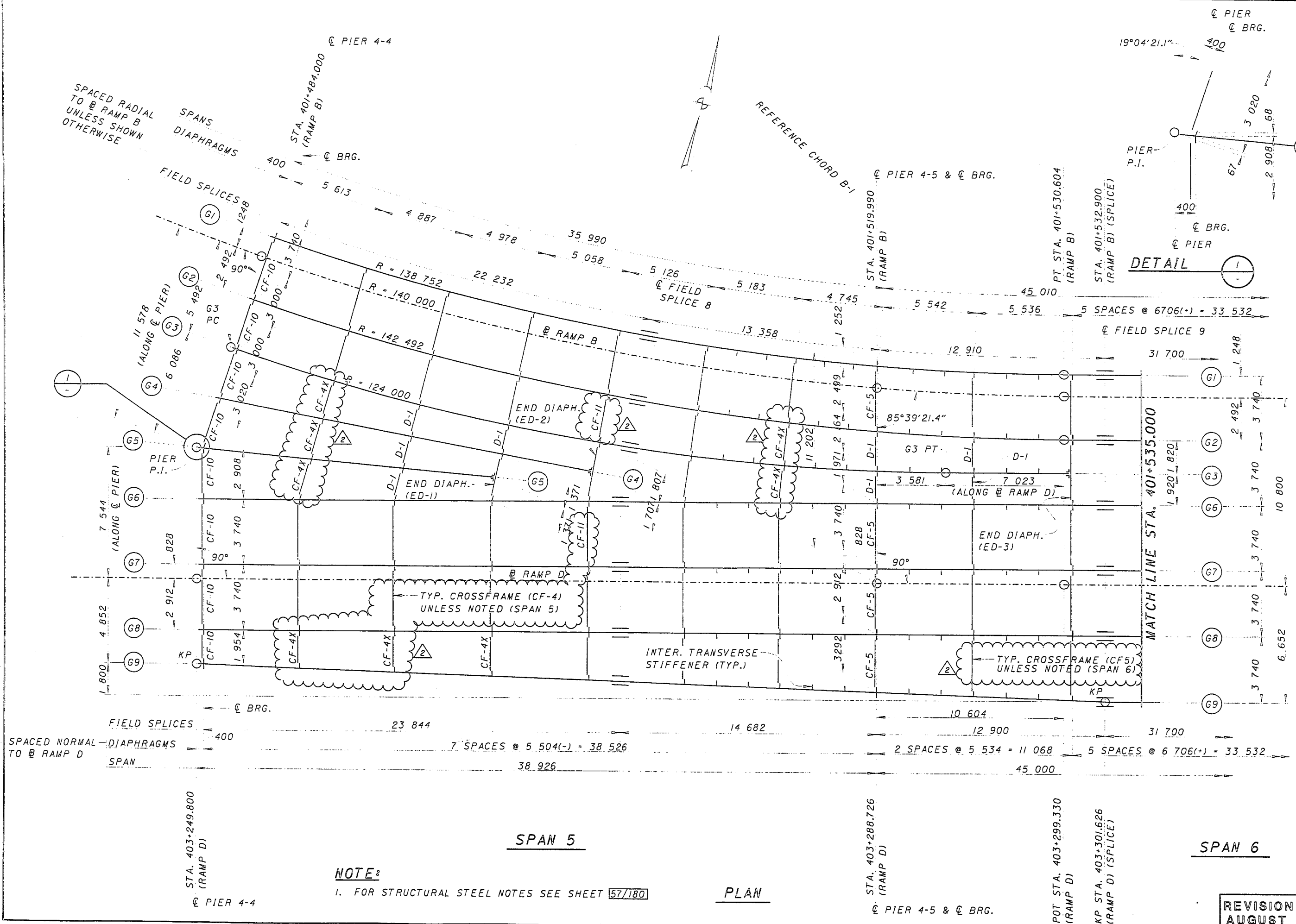


PLAN

NOTE:

1. FOR STRUCTURAL STEEL NOTES SEE SHEET 57/180

DESIGN AGENCY PARSONS BRINCKERHOFF, INC. 312 ELM. STREET, SUITE 2500 CINCINNATI, OH 45202-2720	REVIEWED DATE	DRAWN MCG	STRUCTURE FILE NUMBER 3103412
	DESIGNED EB	CHECKED	REVISED
FRAMING PLAN - 4 BRIDGE NO. 4 RAMP B			
CITY OF CINCINNATI CONTRACT No. 75X5753		60/180	
112 232			



REVISION NO.	DESCRIPTION	DATE	BY
2	REVISED CROSS FRAME TYPE	8-8-99	LAE
1			

DESIGN AGENCY
PB
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

PROJECT NO. 3103412
 MCG
 EB

FRAMING PLAN - 5
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

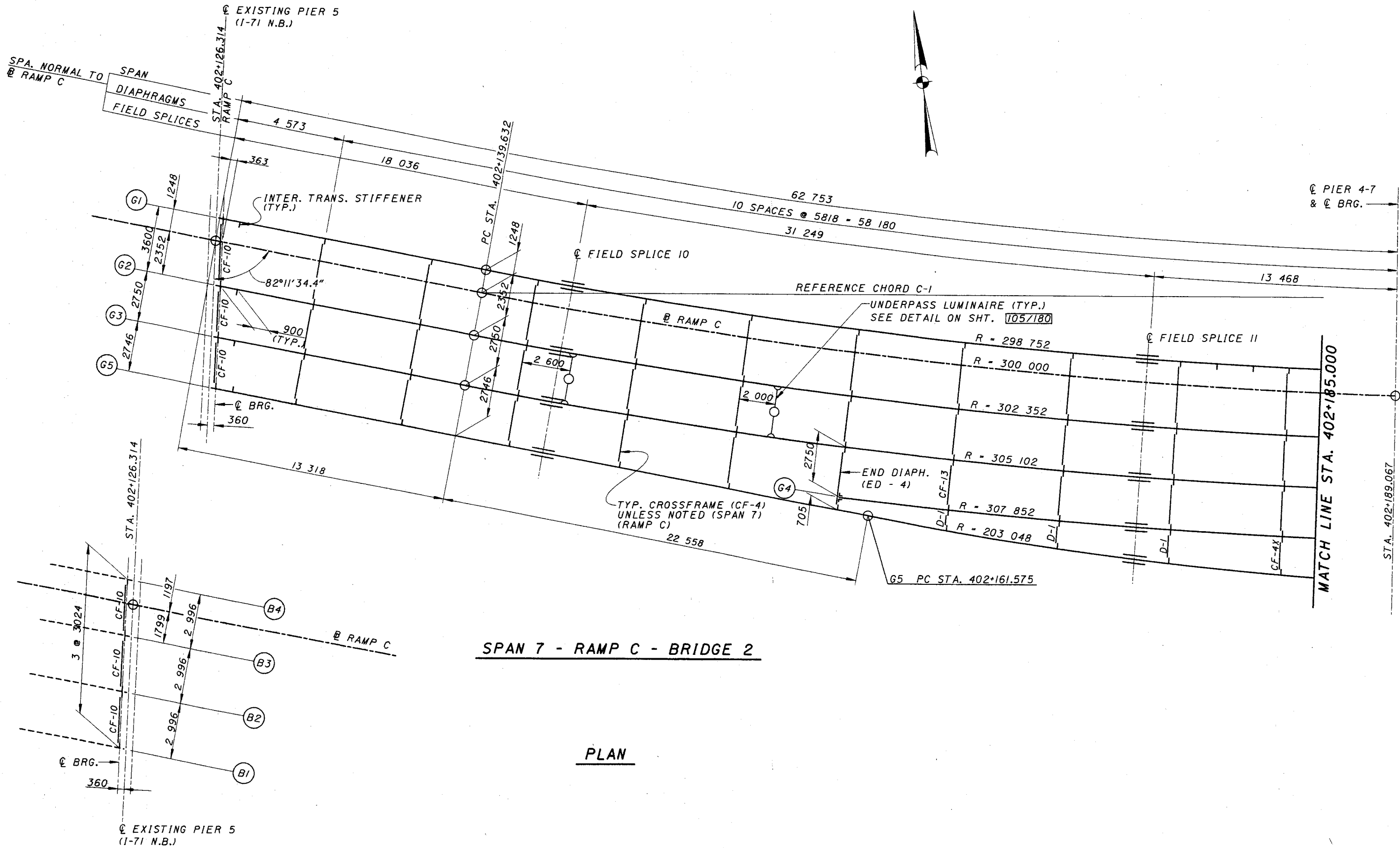
REVISION NO. 2
 AUGUST 6, 1999

Fri Jun 18 14:04:43 1999

6/18/99

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SPAN 7 - RAMP C - BRIDGE 2

PLAN

SPAN 5 - RAMP C - BRIDGE 3

CONTRACT 7 TO FURNISH AND INSTALL NEW CROSS FRAMES TO REPLACE CONTRACT 6 CROSS FRAMES AT PIER 5. FIELD DRILL CONNECTION HOLES IN CONTRACT 6 BEARING STIFFENERS. SEE CONTRACT 6 APPROVED SHOP DRAWINGS FOR STEEL DETAILS.

NOTE:

1. FOR STRUCTURAL STEEL NOTES SEE SHEET 57/180

DESIGN AGENCY
PB
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

DATE
REVIEWED
DRAWN
DESIGNED
CHECKED

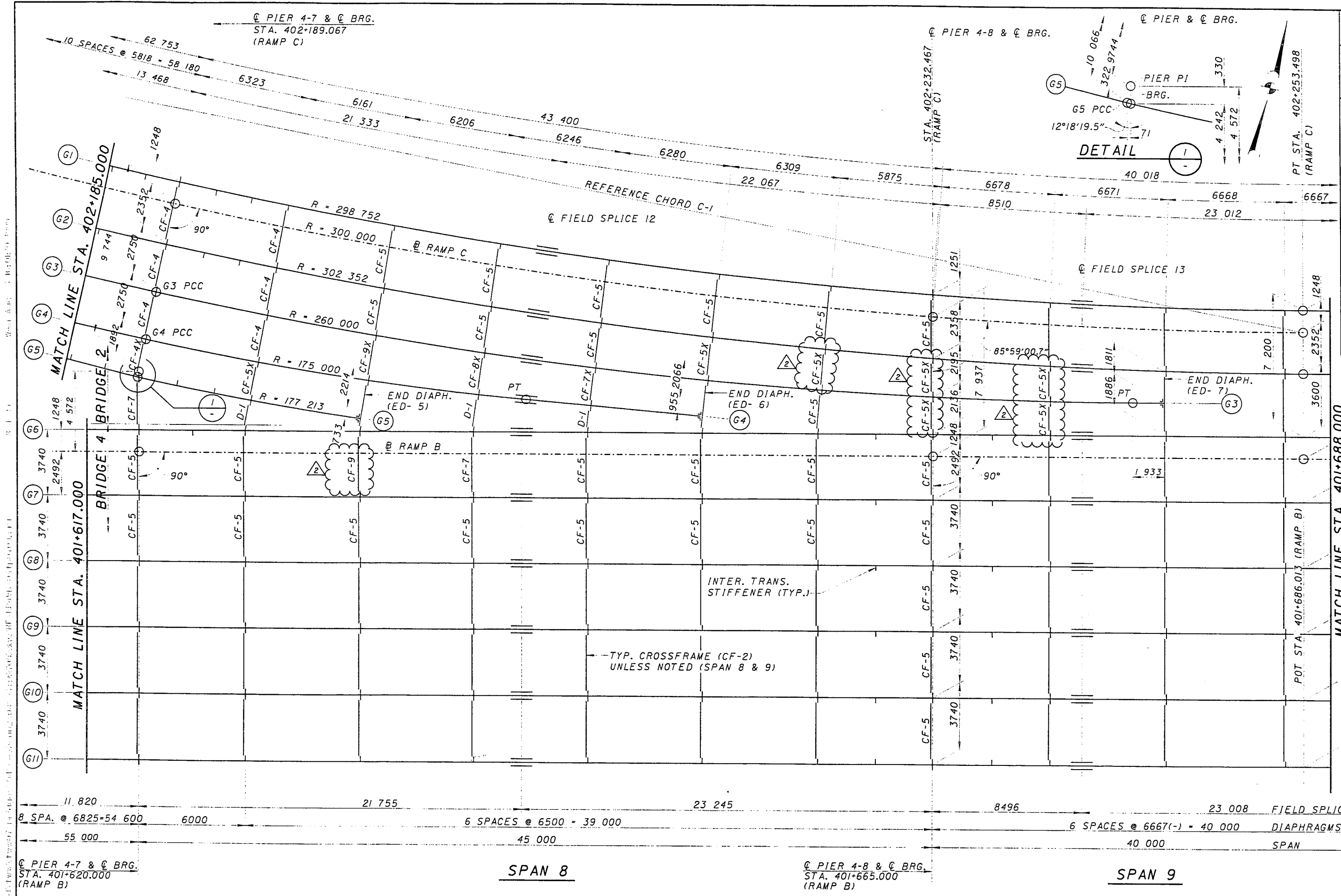
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EB

FRAMING PLAN - 7
BRIDGE NO. 2
RAMP C

CITY OF CINCINNATI
CONTRACT No. 75X5753

63/180

115
232



REVISION NO.	DESCRIPTION	DATE	BY
2	REVISED CROSS FRAME TYPE	8-6-99	LAE

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

PROJECT NO. 3103412

CITY OF CINCINNATI
 CONTRACT No. 75X5753

FRAMING PLAN - 9
 BRIDGES NO. 2 & 4
 RAMPS B & C

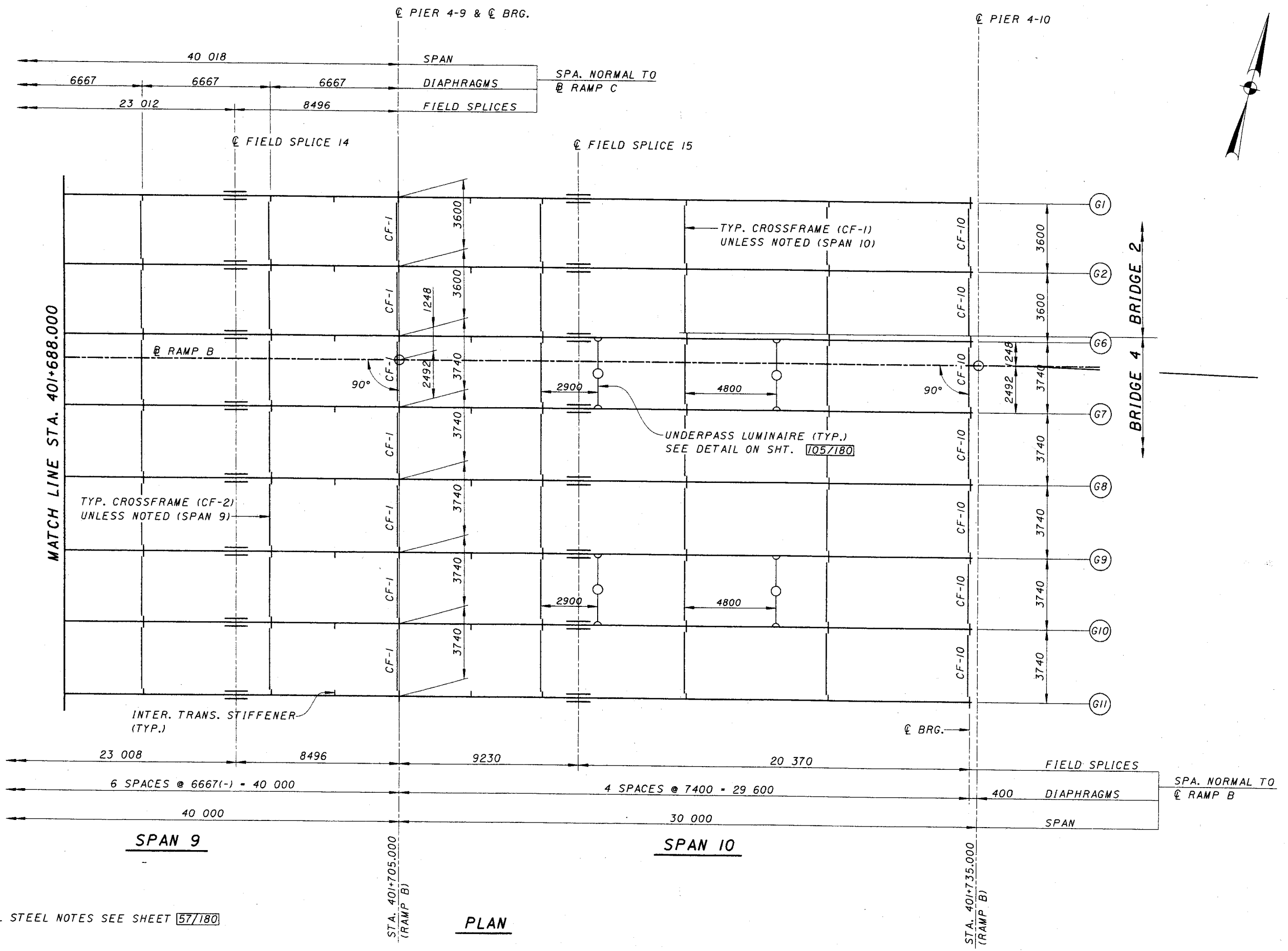
65/180

Tue Feb 16 15:37:35 1999

2/16/99

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NOTE:

1. FOR STRUCTURAL STEEL NOTES SEE SHEET 57/180

PLAN

DESIGN AGENCY
PB
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

DATE	REVIEWED	DESIGNED	DRAWN
		E.B.	M.C.G.
STRUCTURE FILE NUMBER	REVISED	CHECKED	
3103412			

FRAMING PLAN - 10
 BRIDGES NO. 2 & 4
 RAMPS B & C

CITY OF CINCINNATI
 CONTRACT No. 75X5753

66/180

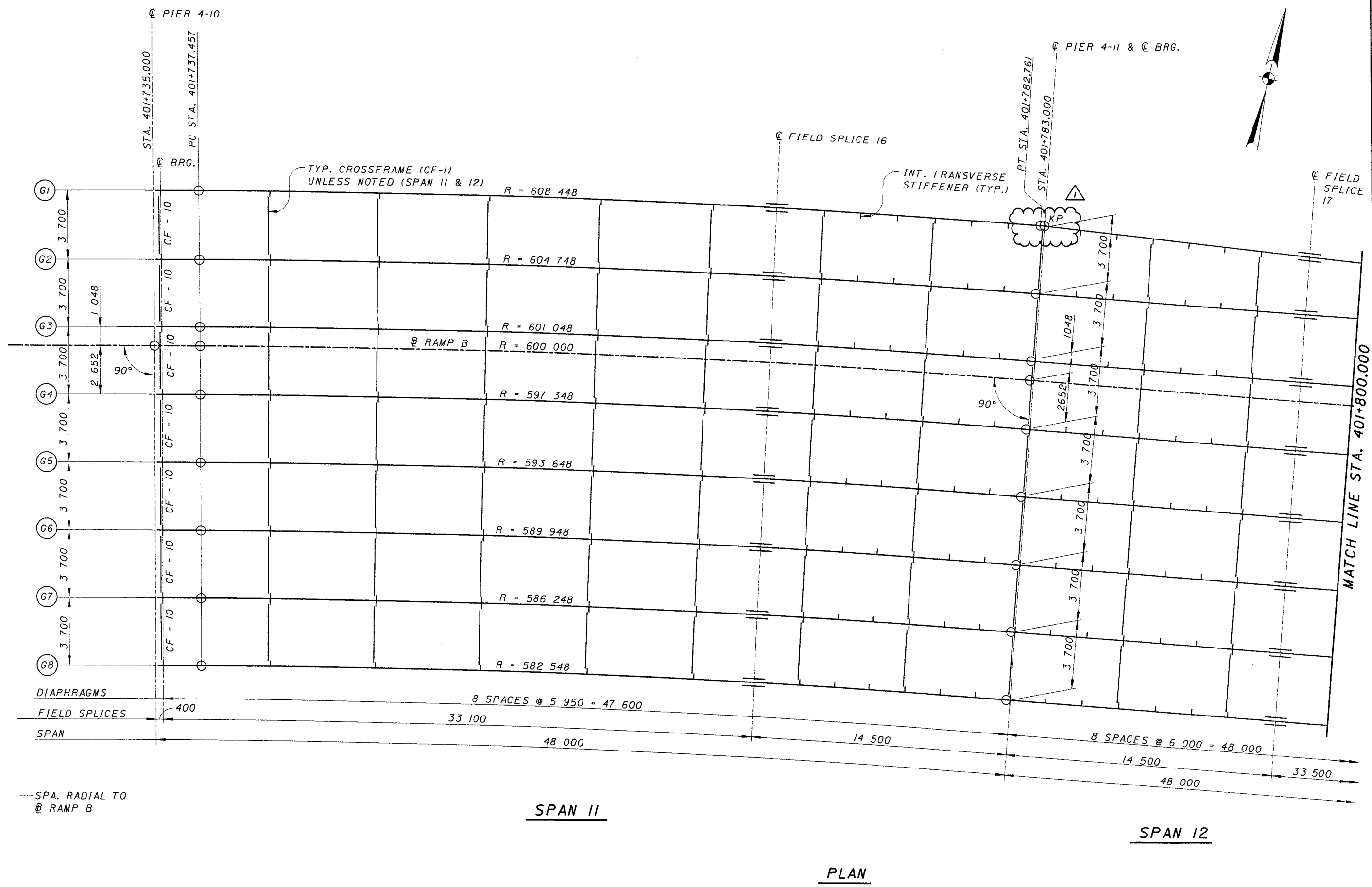
118
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Mon Jul 12 16:29:53 1999

7/12/99

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REVISION NO.	ADDENDUM	DESCRIPTION	DATE	BY
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DESIGNED: EB
 CHECKED: MCG
 DRAWN: MCG
 REVIEWED: MCG

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

STRUCTURE FILE NUMBER: 31034/2

CITY OF CINCINNATI
 CONTRACT No. 75X5753

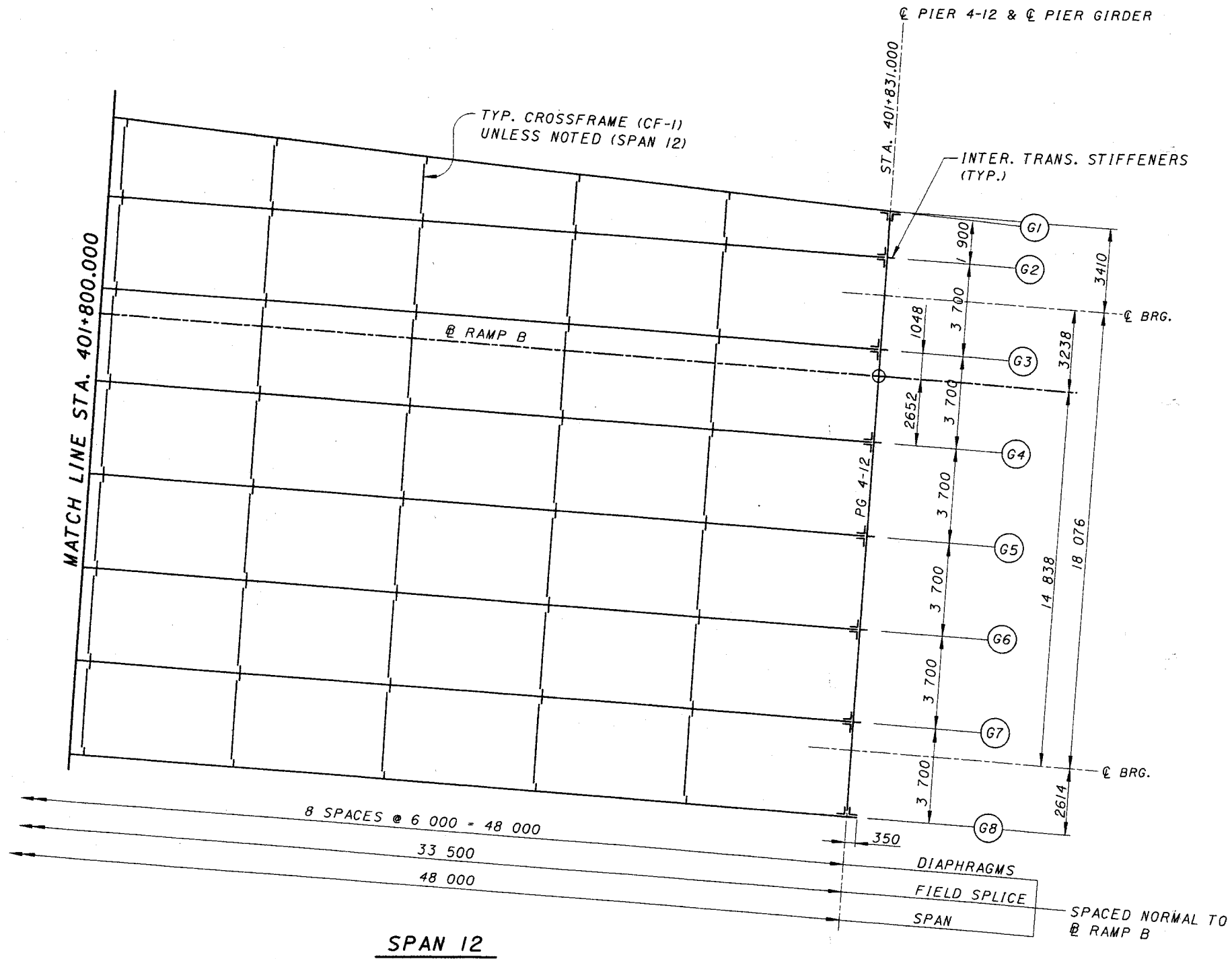
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 BRIDGE NO. 4
 RAMP B

67/180

119
 232

NOTE:
 1. FOR STRUCTURAL STEEL NOTES SEE SHEET 57/180

ADDENDUM NO. 1
JULY 12, 1999



SPAN 12

PLAN

NOTE:

1. FOR STRUCTURAL STEEL NOTES SEE SHEET 57/180

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM. STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

DESIGNED	DATE
EB	
CHECKED	
DRAWN	REVIEWED
MJB	
REVISED	
STRUCTURE FILE NUMBER	
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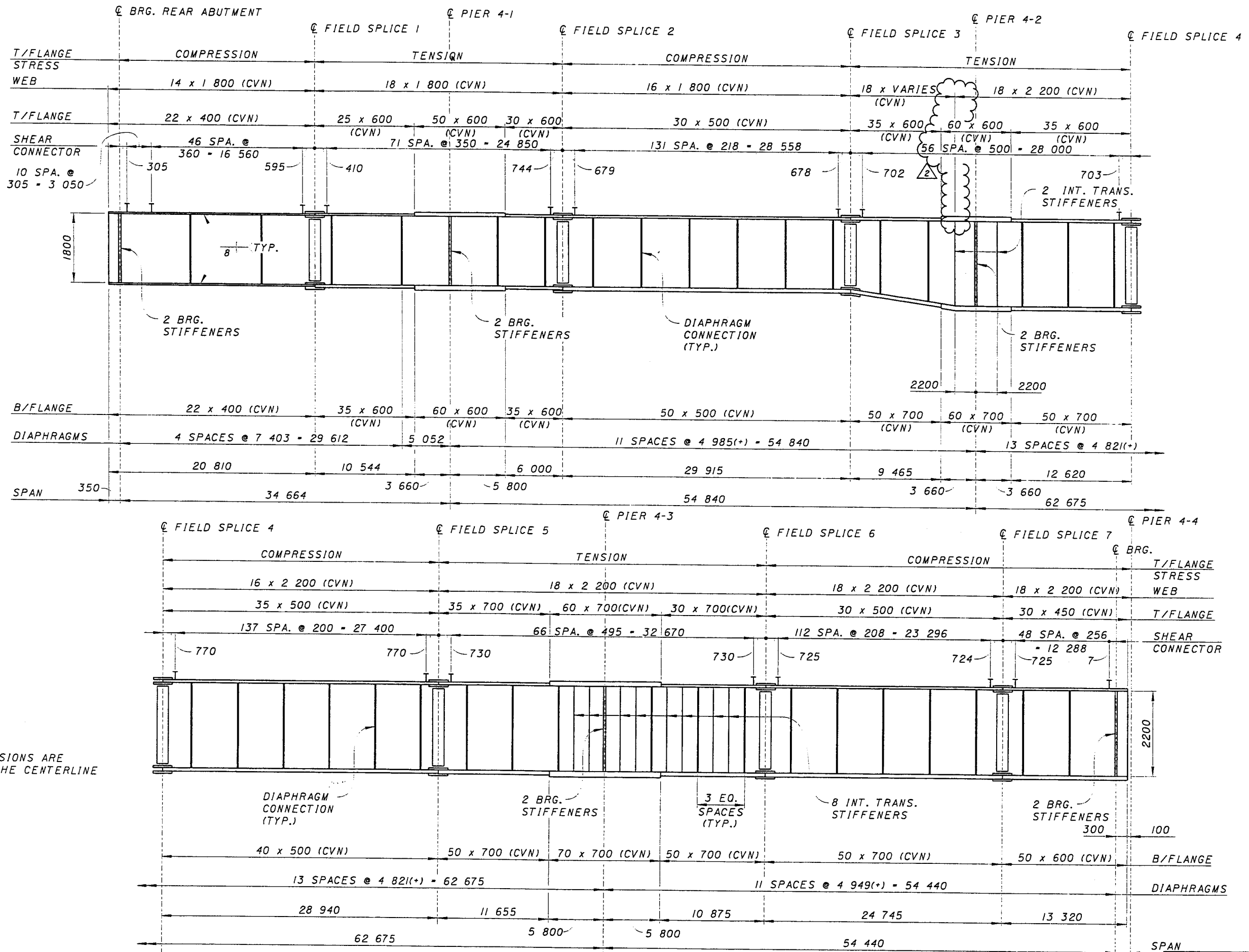
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 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
CONTRACT No. 75X5753

68/180

120
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NOTE:
 1. HORIZONTAL DIMENSIONS ARE MEASURED ALONG THE CENTERLINE OF GIRDER WEB.

GIRDER ELEVATION (G5)

REVISION NO.	DESCRIPTION	DATE	BY
2	REVISED DIMENSIONS	8-6-99	LAE

DESIGNED	DATE	DESIGN AGENCY
MJB		PARSONS BRINCKERHOFF, INC.
CHECKED		312 ELM STREET, SUITE 2500
REVISED		CINCINNATI, OH 45202-2720
		PRB
		3103412

CITY OF CINCINNATI	PLATE GIRDER ELEVATIONS, UNIT 1 - G5
CONTRACT No. 75X5753	BRIDGE No. 4 RAMP B

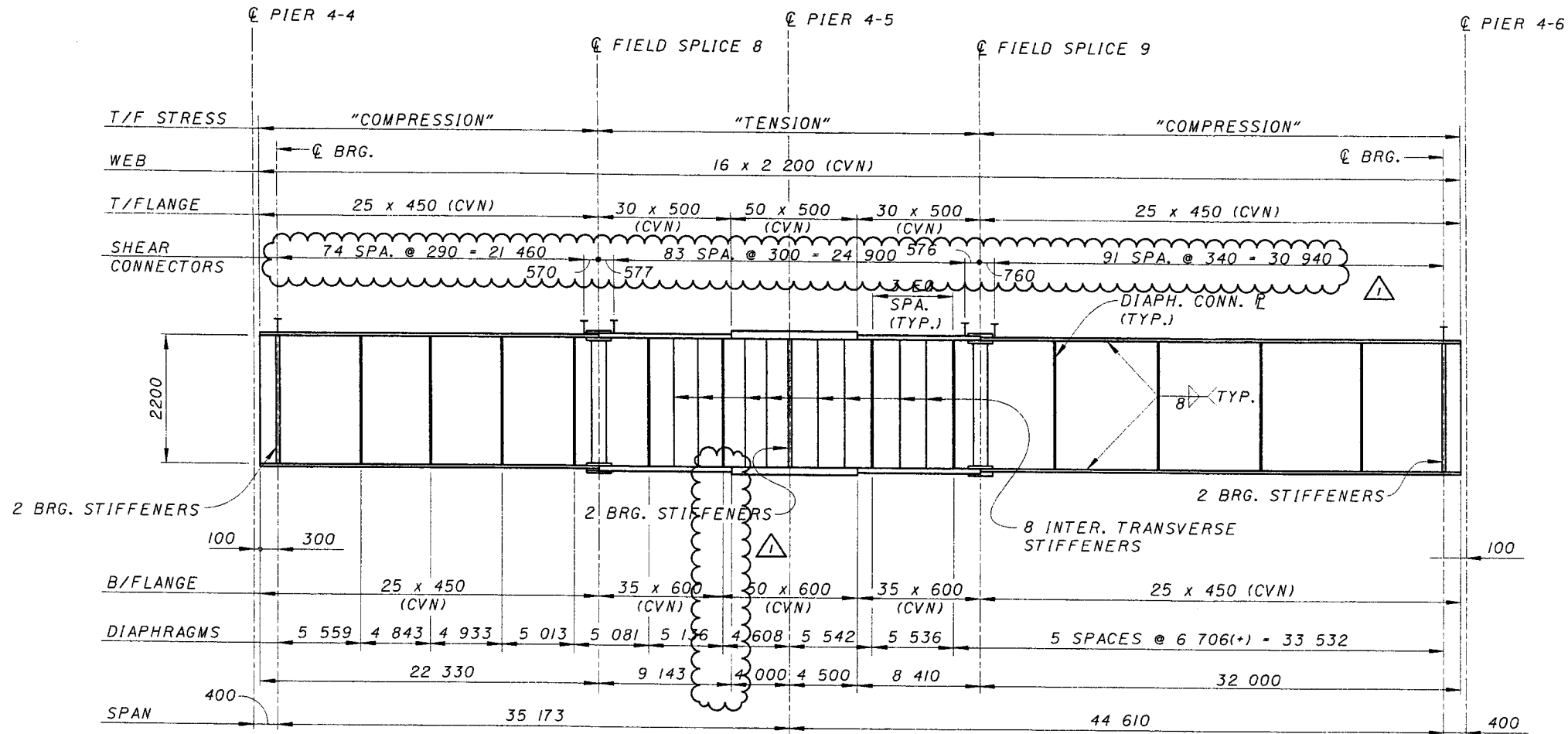
73/180	REVISION NO. 2	125
	AUGUST 6, 1999	232

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7/12/99

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GIRDER ELEVATION (G1)

NOTE:

HORIZONTAL DIMENSIONS ARE MEASURED
ALONG THE CENTERLINE OF GIRDER WEB

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REV. SHEAR CONNECTORS & DIMENSION LINES	7-12-99	DDE
DESIGNED MJB	DATE	REVIEWED	DESIGN AGENCY
CHECKED	STRUCTURE FILE NUMBER	3703472	PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720
DRAWN JJW			
REVISOR			

PLATE GIRDER ELEVATIONS, UNIT 2 - G1
BRIDGE NO. 4
RAMP B

CITY OF CINCINNATI
CONTRACT No. 75X5753

74/180

ADDENDUM NO. 1
JULY 12, 1999

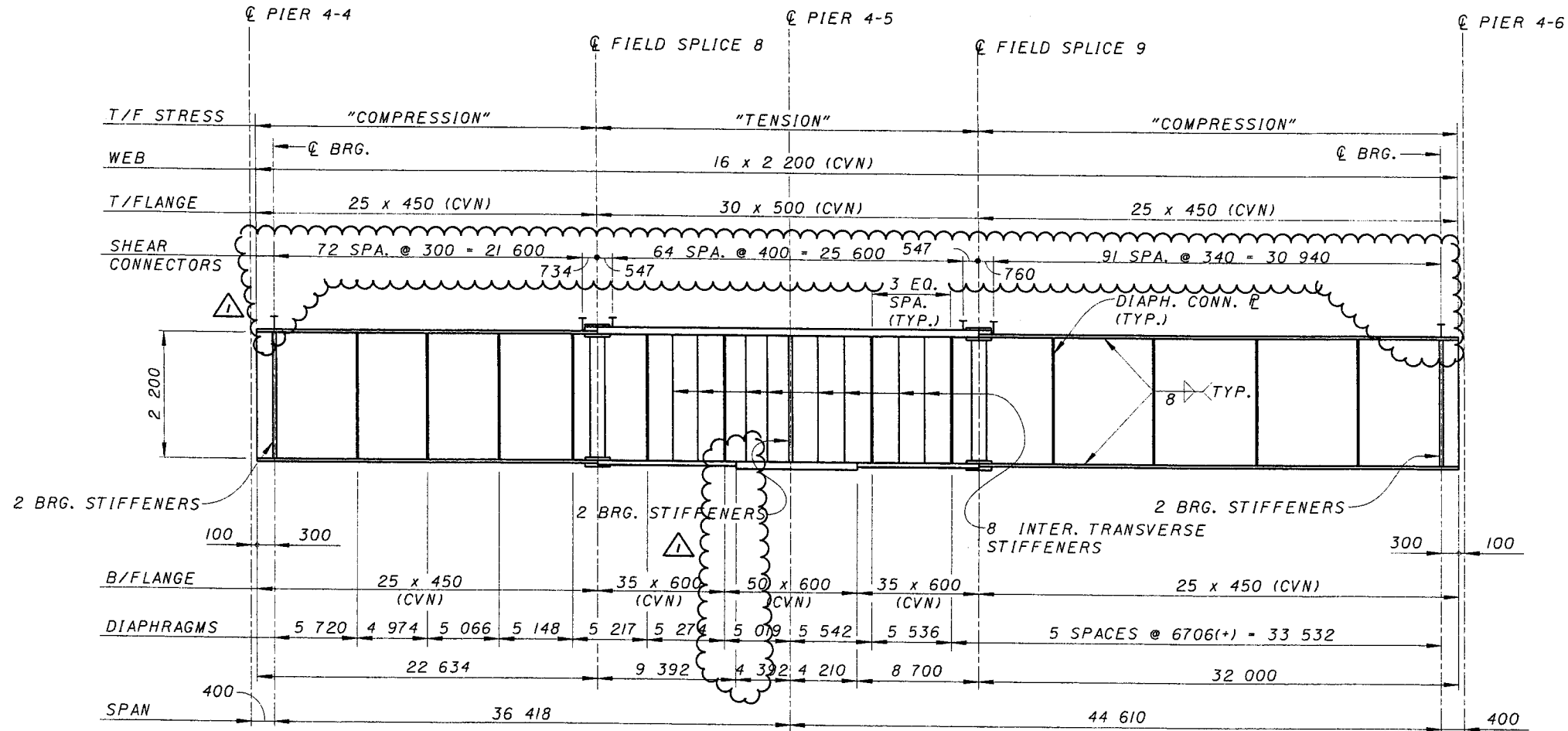
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232

Mon Jul12 16:55:02 1999

7/12/99

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GIRDER ELEVATION (G2)

NOTE:
HORIZONTAL DIMENSIONS ARE MEASURED
ALONG THE CENTERLINE OF GIRDER WEB

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REV. SHEAR CONNECTORS AND DIMENSION LINES	7-12-99	DDE

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

DESIGNED: MJB
CHECKED: JJB
DRAWN: JJB
REVIEWED: JJB
DATE: 3/03/12
STRUCTURE FILE NUMBER: 3103412

PLATE GIRDER ELEVATIONS, UNIT 2 - G2
BRIDGE NO. 4
RAMP B

CITY OF CINCINNATI
CONTRACT No. 75X5753

75/180

ADDENDUM NO. 1
JULY 12, 1999

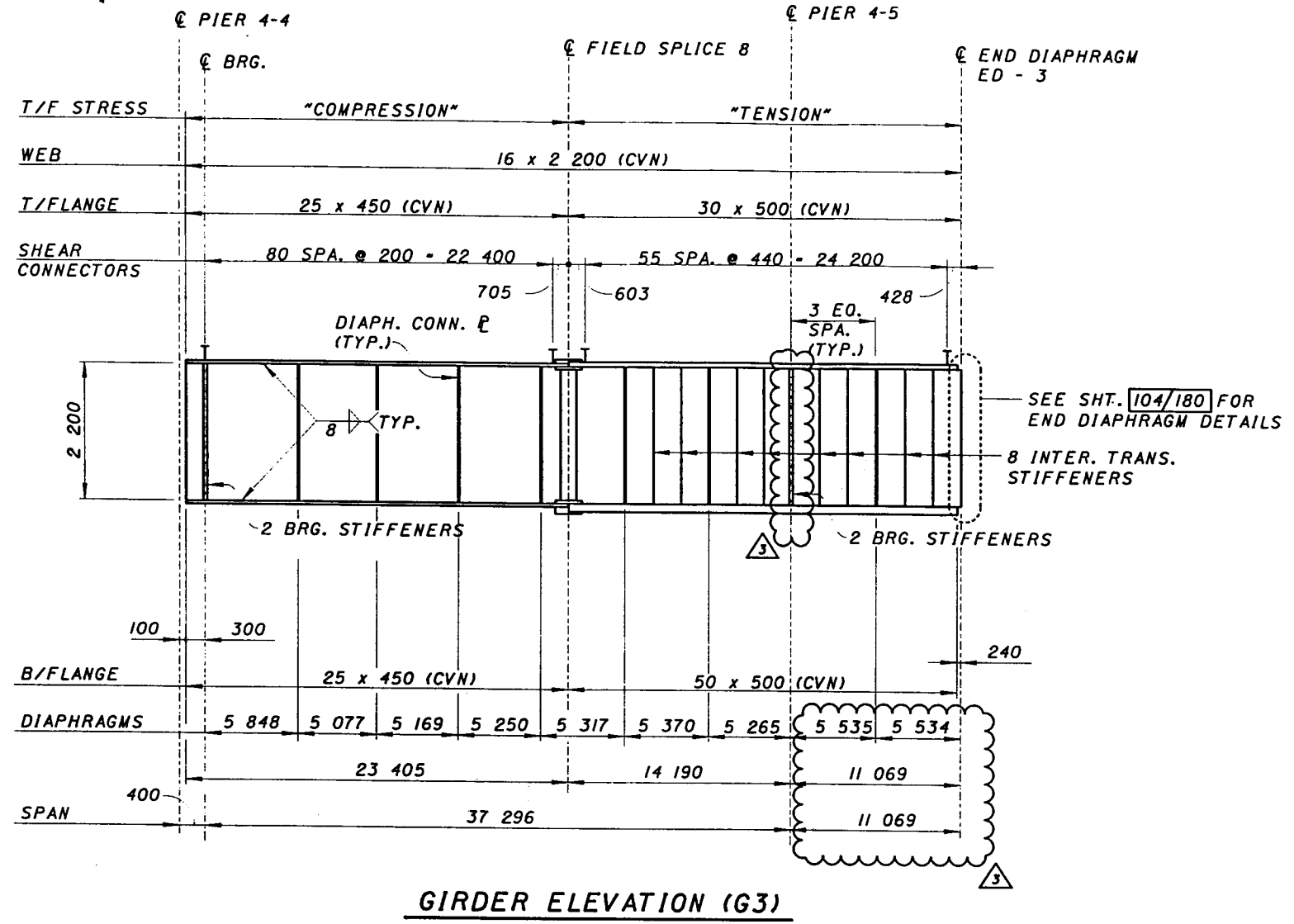
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9/3/99

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REVISION NO.	DESCRIPTION	DATE	BY
REVISION 3	REV. DIMENSIONS	9-7-99	MCG

DESIGN AGENCY
PB
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

REVIEWED DATE
 DRAWN DATE
 CHECKED DATE
 STRUCTURE FILE NUMBER
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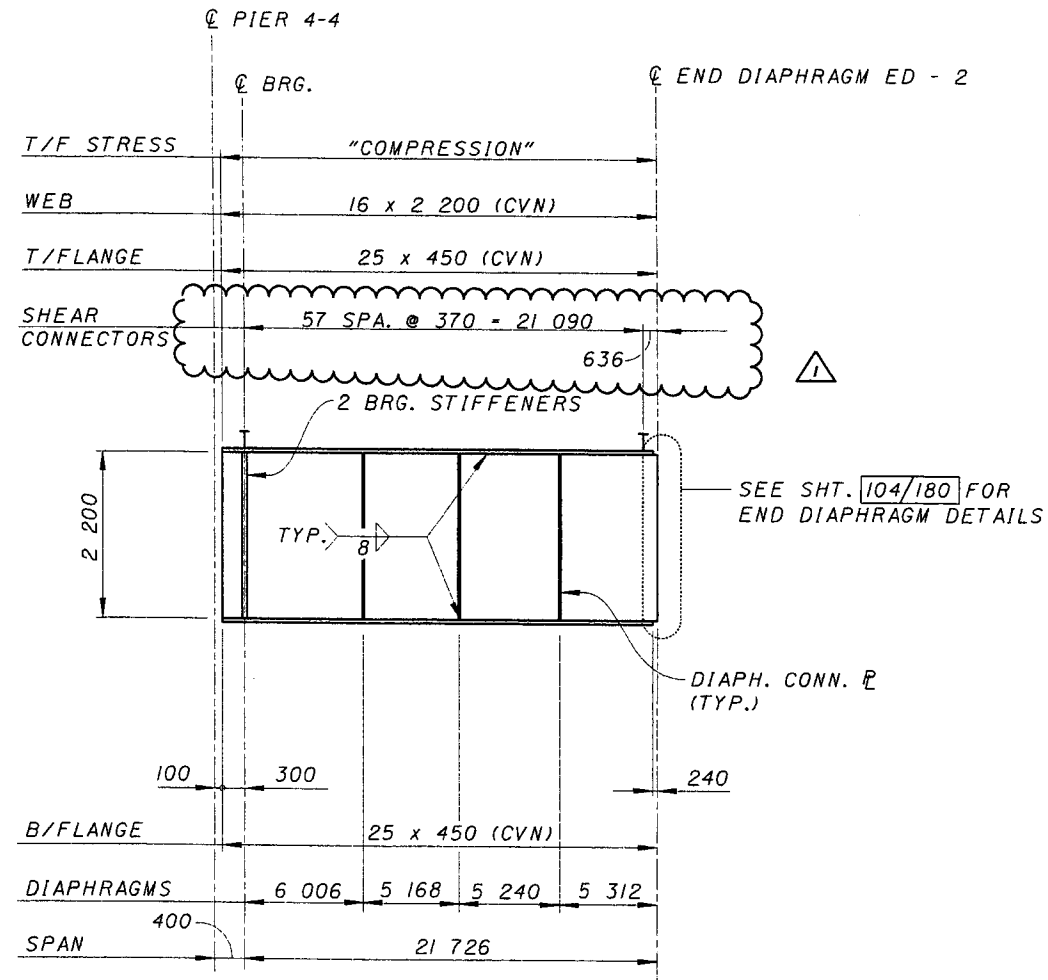
PLATE GIRDER ELEVATIONS, UNIT 2 - G3
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

76/180

REVISION NO. 3
 SEPT 7, 1999

128
 232



GIRDER ELEVATION (G4)

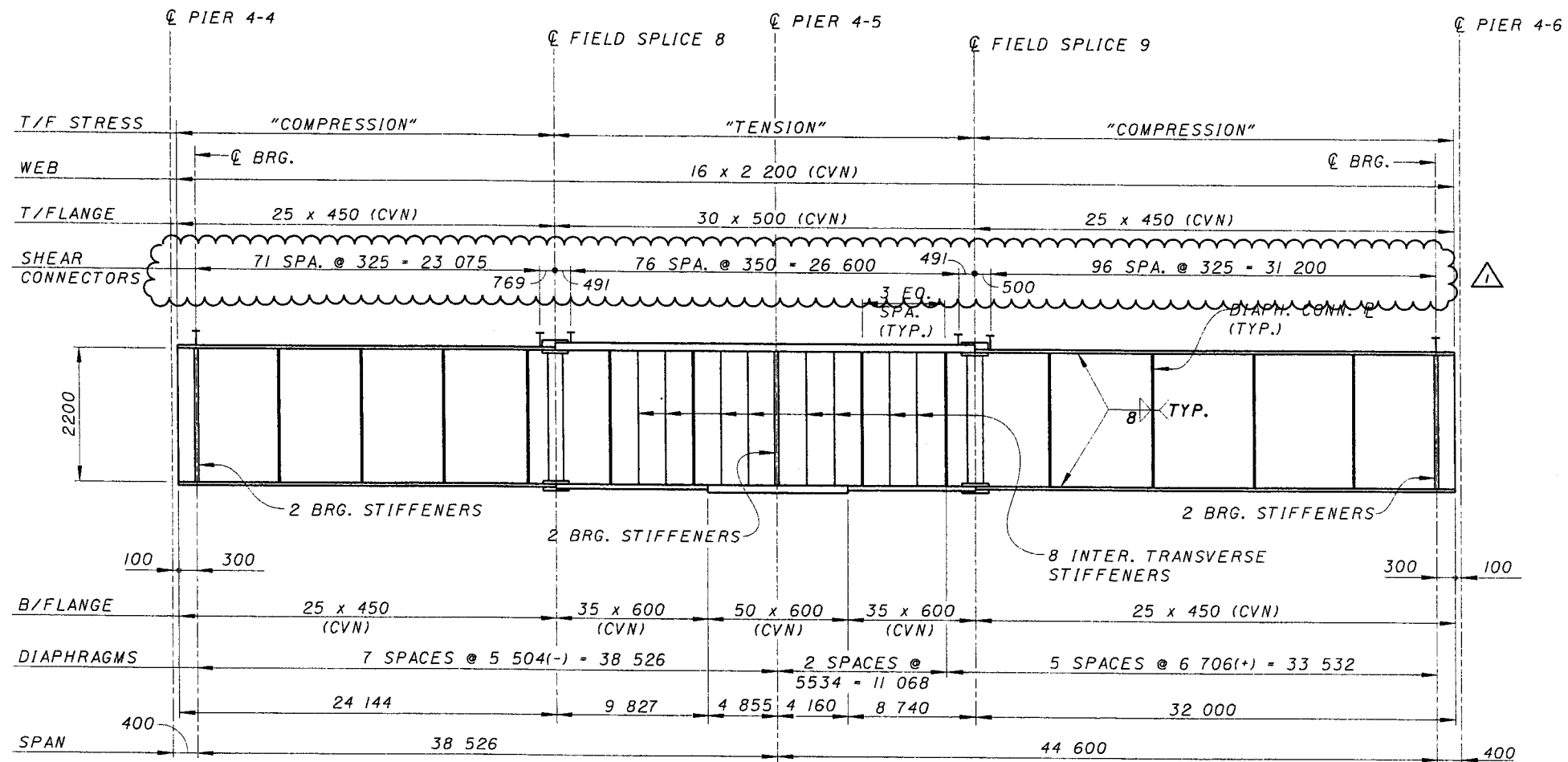
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DESIGNED MJB	DESIGNED DATE 3/03/92		
CHECKED	REVIEWED STRUCTURE FILE NUMBER 3103412		
DRAWN JJW	DESIGN AGENCY PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720		
REVIEWED			

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7/12/99

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GIRDER ELEVATION (G6)

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REV. SHEAR CONNECTORS AND DIMENSION LINES	7-12-99	DDE

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

DESIGNED: MJB
 DRAWN: J/JW
 CHECKED: []
 REVISED: []
 DATE: []
 STRUCTURE FILE NUMBER: 3103412

PLATE GIRDER ELEVATIONS, UNIT 2 - G6
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

79/180

ADDENDUM NO. 1
JULY 12, 1999

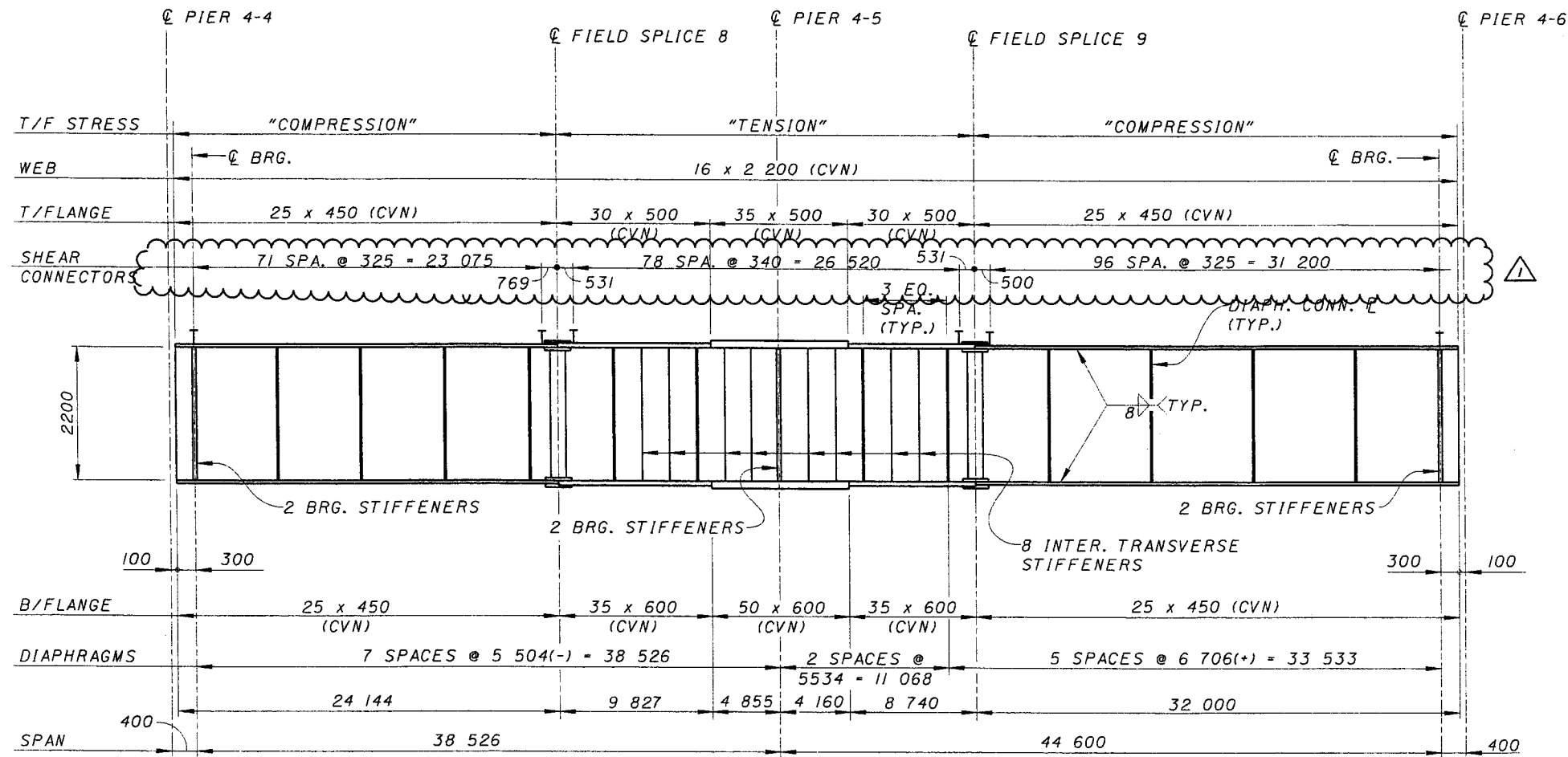
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GIRDER ELEVATION (G7)

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REV. SHEAR CONNECTORS AND DIMENSION LINES	7-12-99	DDE

DESIGN AGENCY
DB
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

DESIGNED	DRAWN	REVIEWED	DATE
MJB	JJW		
CHECKED	REVISOR	STRUCTURE FILE NUMBER	
		3103412	

PLATE GIRDER ELEVATIONS, UNIT 2 - G7
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

80/180

ADDENDUM NO. 1
 JULY 12, 1999

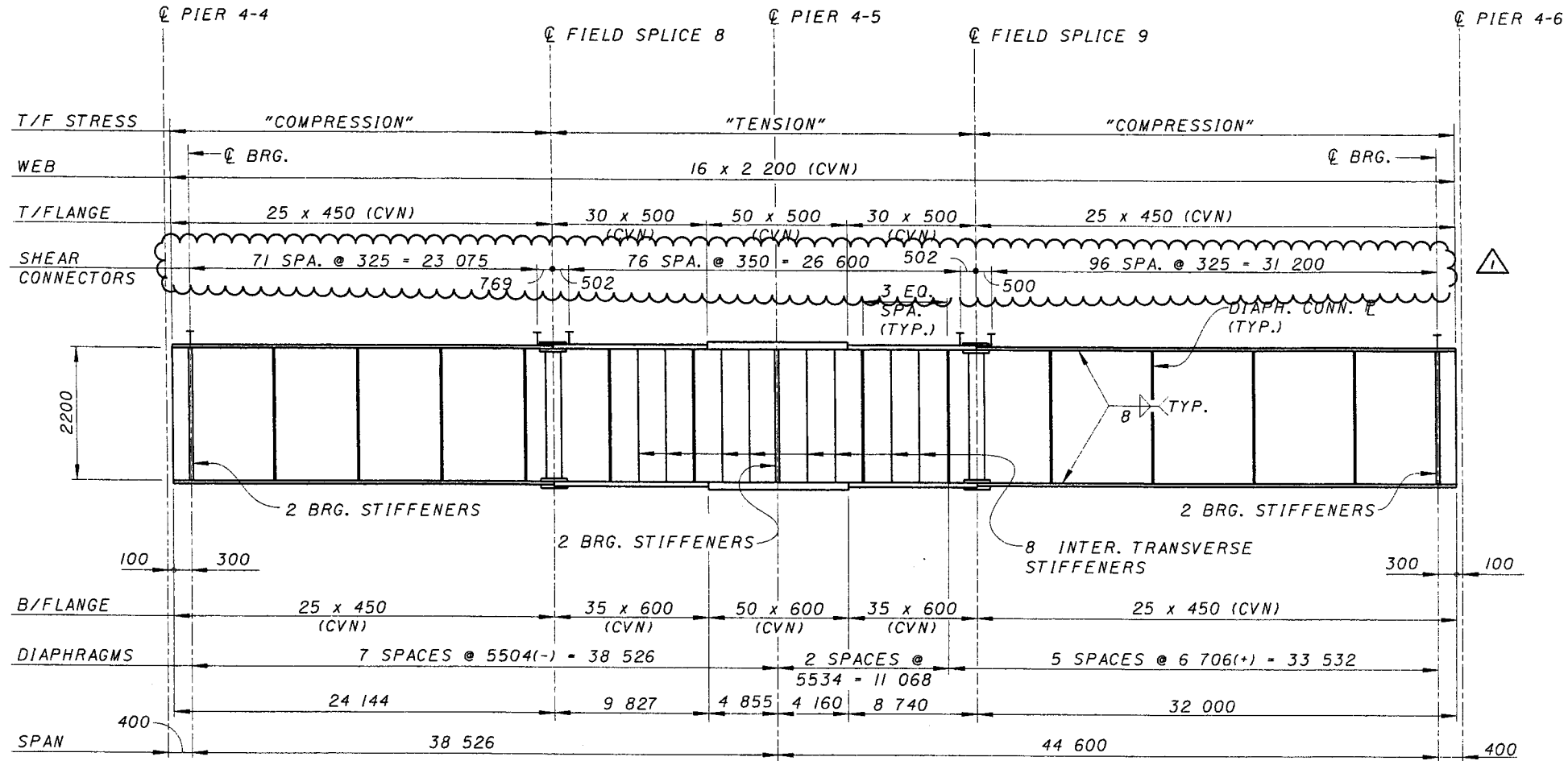
132
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GIRDER ELEVATION (G8)

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REV. SHEAR CONNECTORS AND DIMENSION LINES	7-12-99	DDE

DESIGN AGENCY
PB
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

DESIGNED	DATE
MJB	3/03/12

PLATE GIRDER ELEVATIONS, UNIT 2 - G8
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

81 / 180

ADDENDUM NO. 1
 JULY 12, 1999

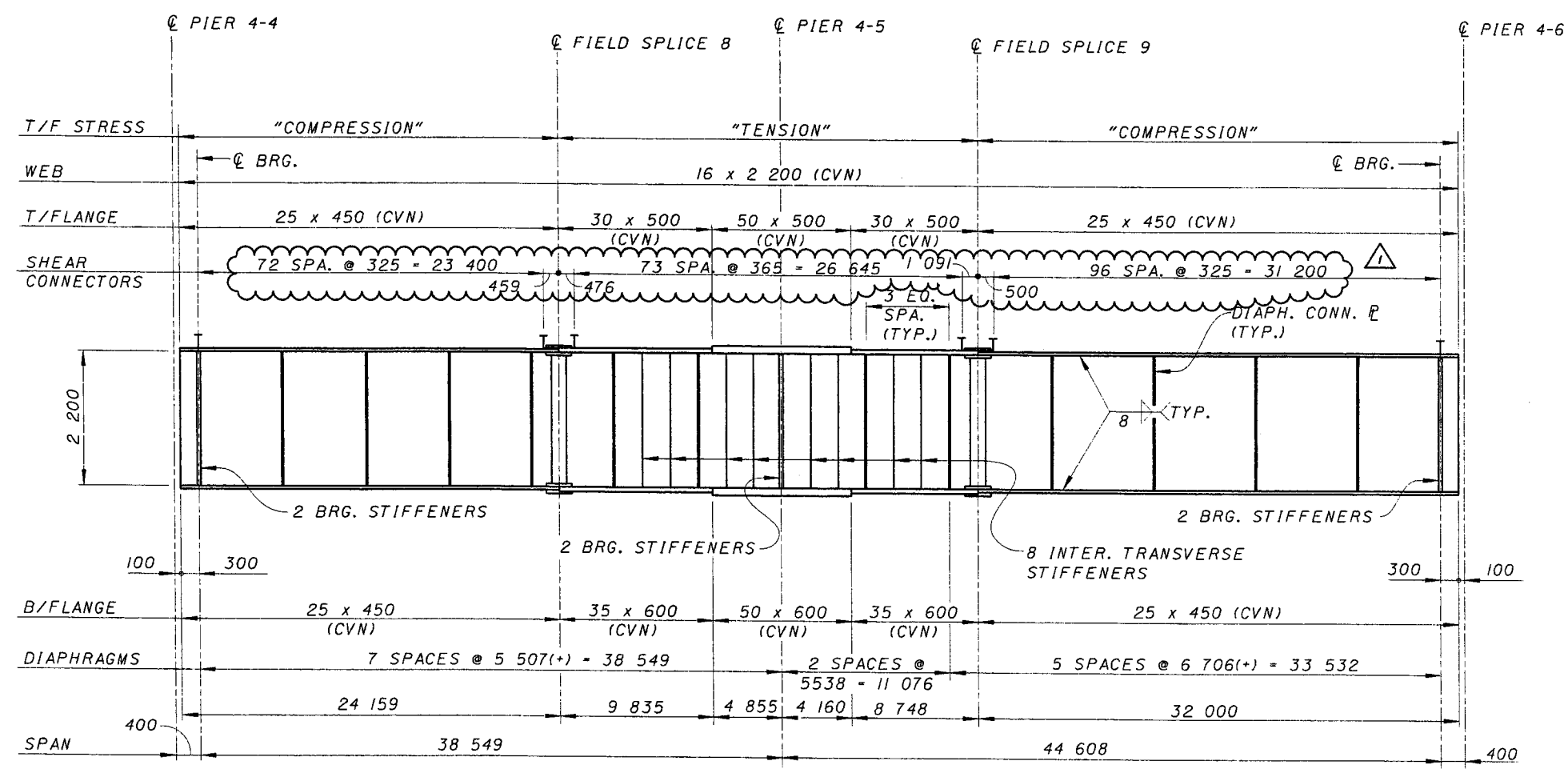
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7/12/99

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GIRDER ELEVATION (G9)

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REV. SHEAR CONNECTORS	7-12-99	DDE
DESIGNED MJB	REVIEWED DATE		
CHECKED	STRUCTURE FILE NUMBER		
DRAWN JJW	3103412		
REVISION			

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

CITY OF CINCINNATI
 CONTRACT No. 75X5753

PLATE GIRDER ELEVATIONS, UNIT 2 - G9
 BRIDGE NO. 4
 RAMP B

82/180

ADDENDUM NO. 1
 JULY 12, 1999

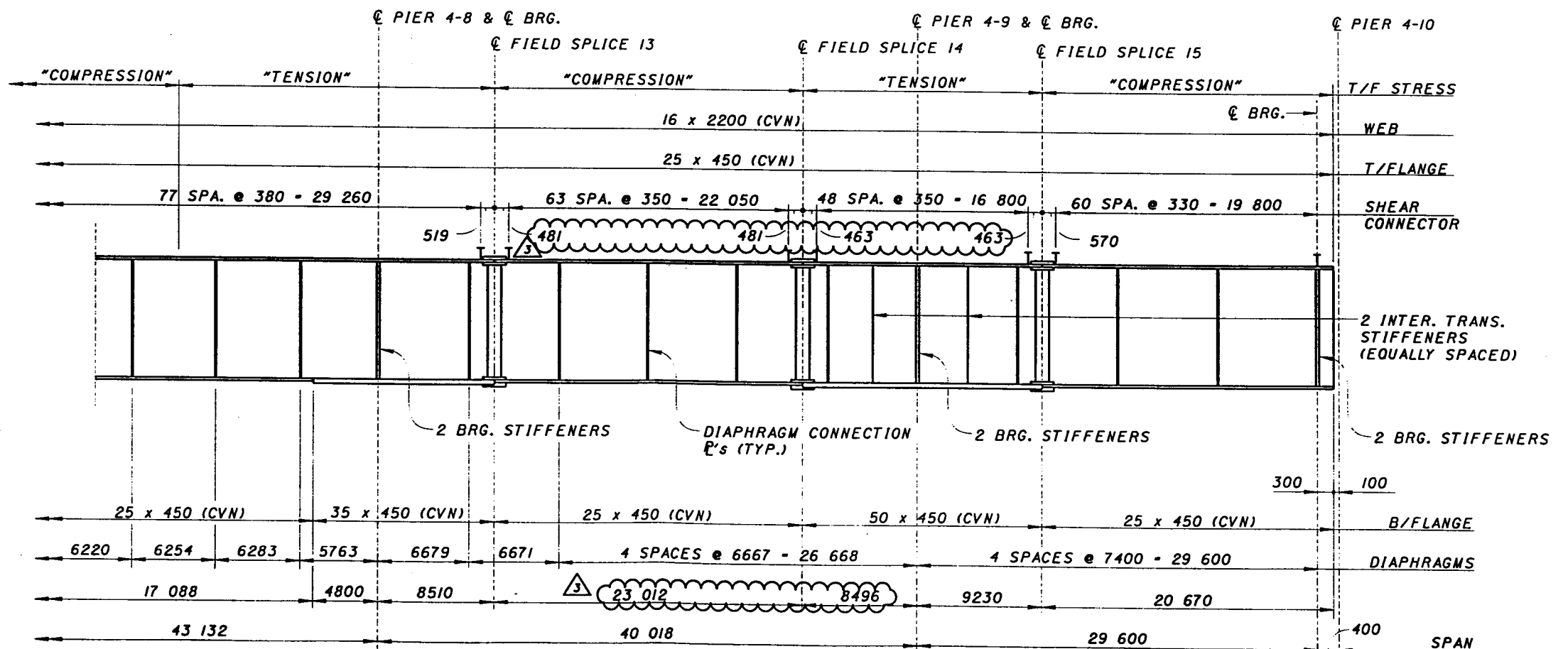
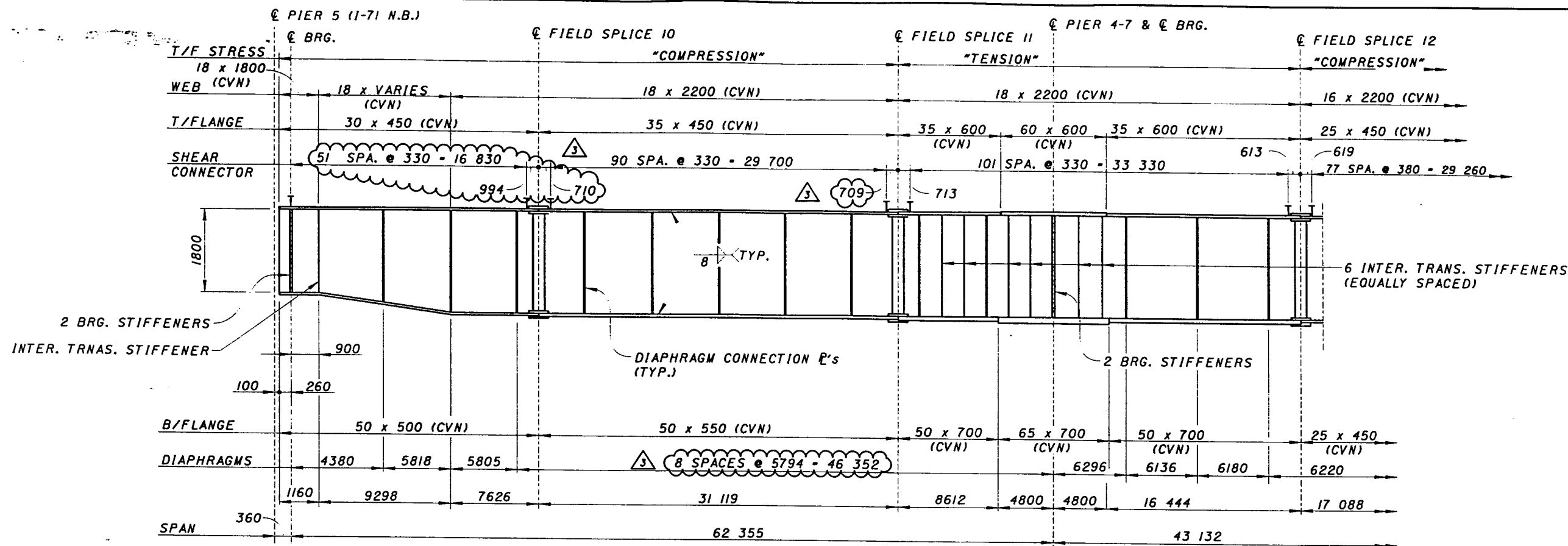
134
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1/23/99

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NOTE:

- 1. HORIZONTAL DIMENSIONS ARE MEASURED ALONG THE CENTERLINE OF GIRDER WEB.

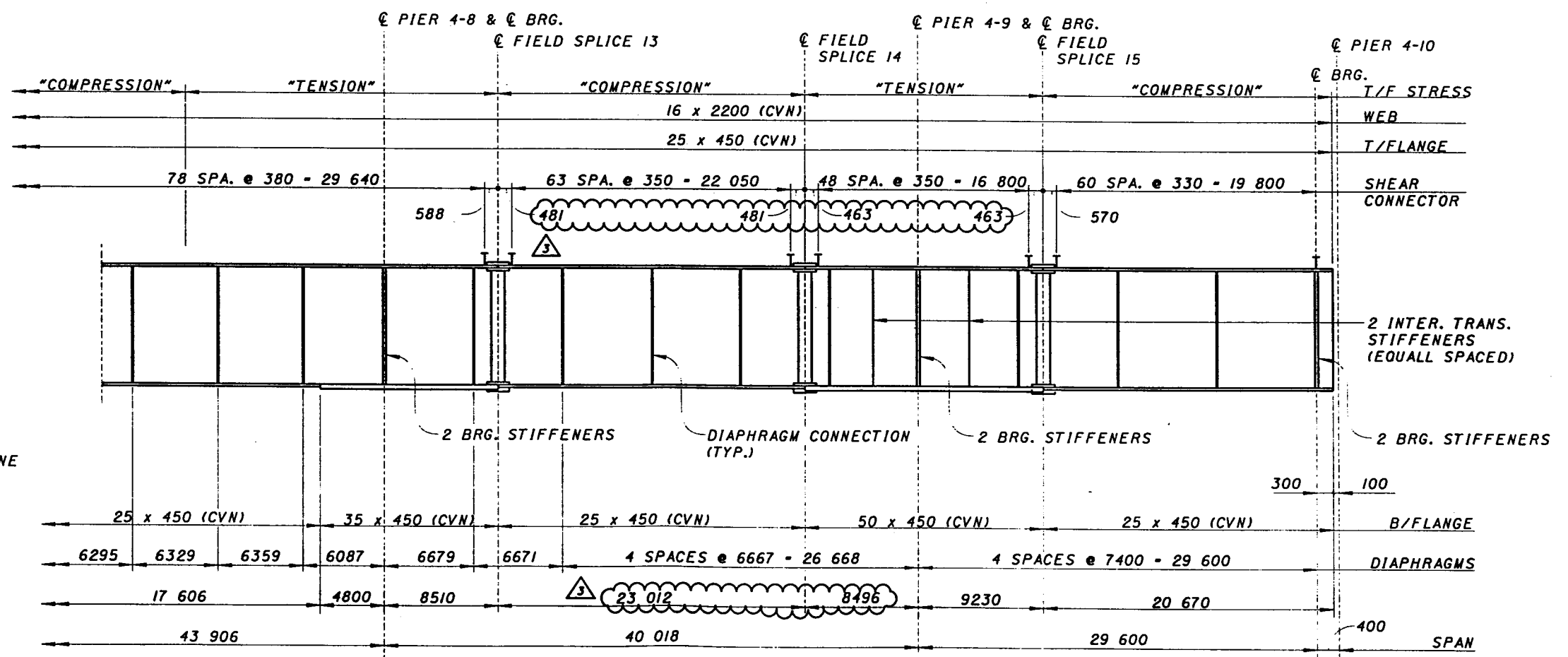
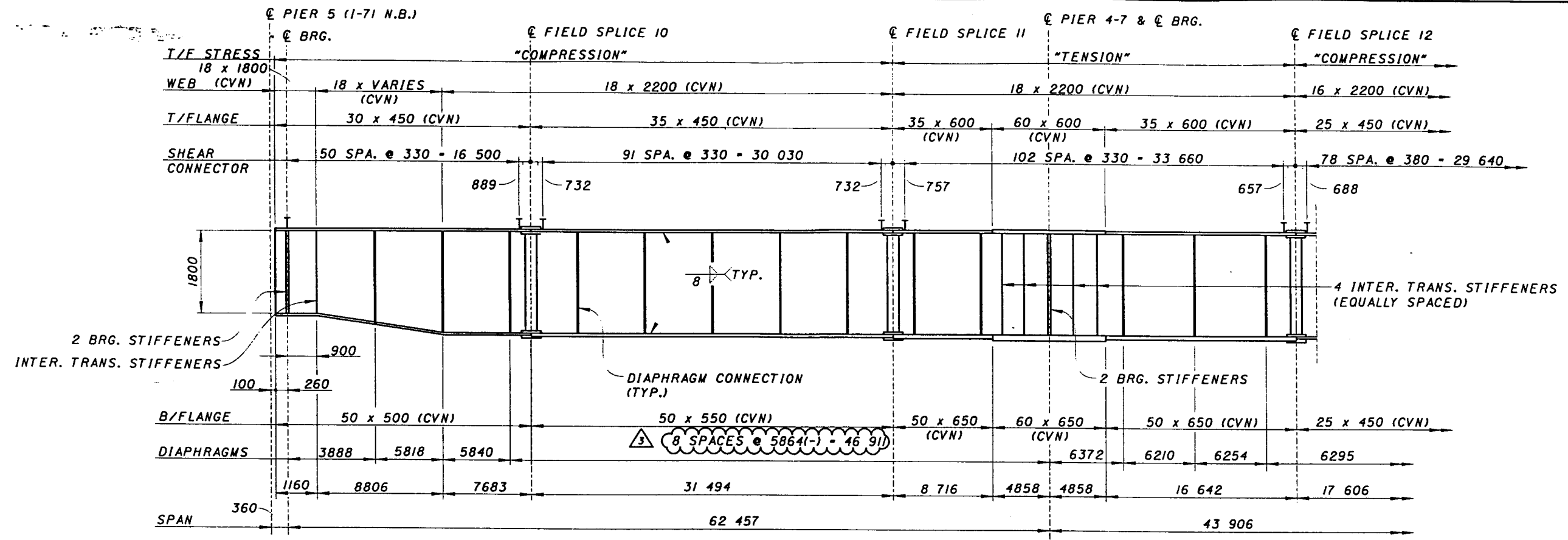
GIRDER ELEVATION (G1)

REVISION NO.	DESCRIPTION	DATE	BY
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2	REVISED		
1	REVISED		

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720
 DRAWN: JJW
 CHECKED: MJB
 REVISION NO. 3
 DATE: 9-7-99
 BY: DDE
 PROJECT: PLATE GIRDER ELEVATIONS, UNIT 3 - G1
 BRIDGES NO. 2 & 4
 RAMPS B & C
 CONTRACT No. 75X5753
 83/180
 135/232

REVISION NO. 3
SEPT. 7, 1999

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NOTE:
 1. HORIZONTAL DIMENSIONS ARE MEASURED ALONG THE CENTERLINE OF GIRDER WEB.

GIRDER ELEVATION (G2)

REVISION NO.	DESCRIPTION	DATE	BY
REVISION 3	REV. DIMENSIONS	9-7-99	DDE
DESIGNED MJB	REVIEWED JWW	DATE 3/03/12	DESIGN AGENT PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720

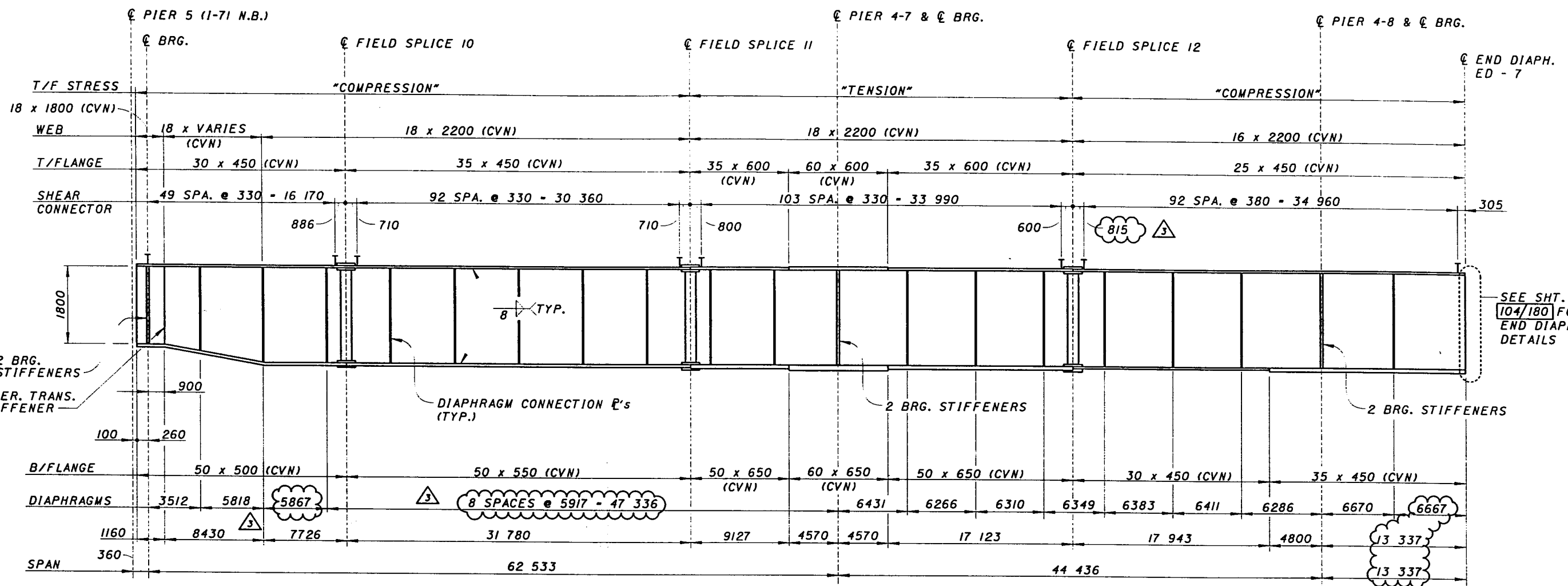
PLATE GIRDER ELEVATIONS, UNIT 3 - G2
 BRIDGES NO. 2 & 4
 RAMPS B & C

CITY OF CINCINNATI
 CONTRACT No. 75X5753

REVISION NO. 3
SEPT. 7, 1999

84/180
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 232

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 3:15:29.33 1999



NOTE:

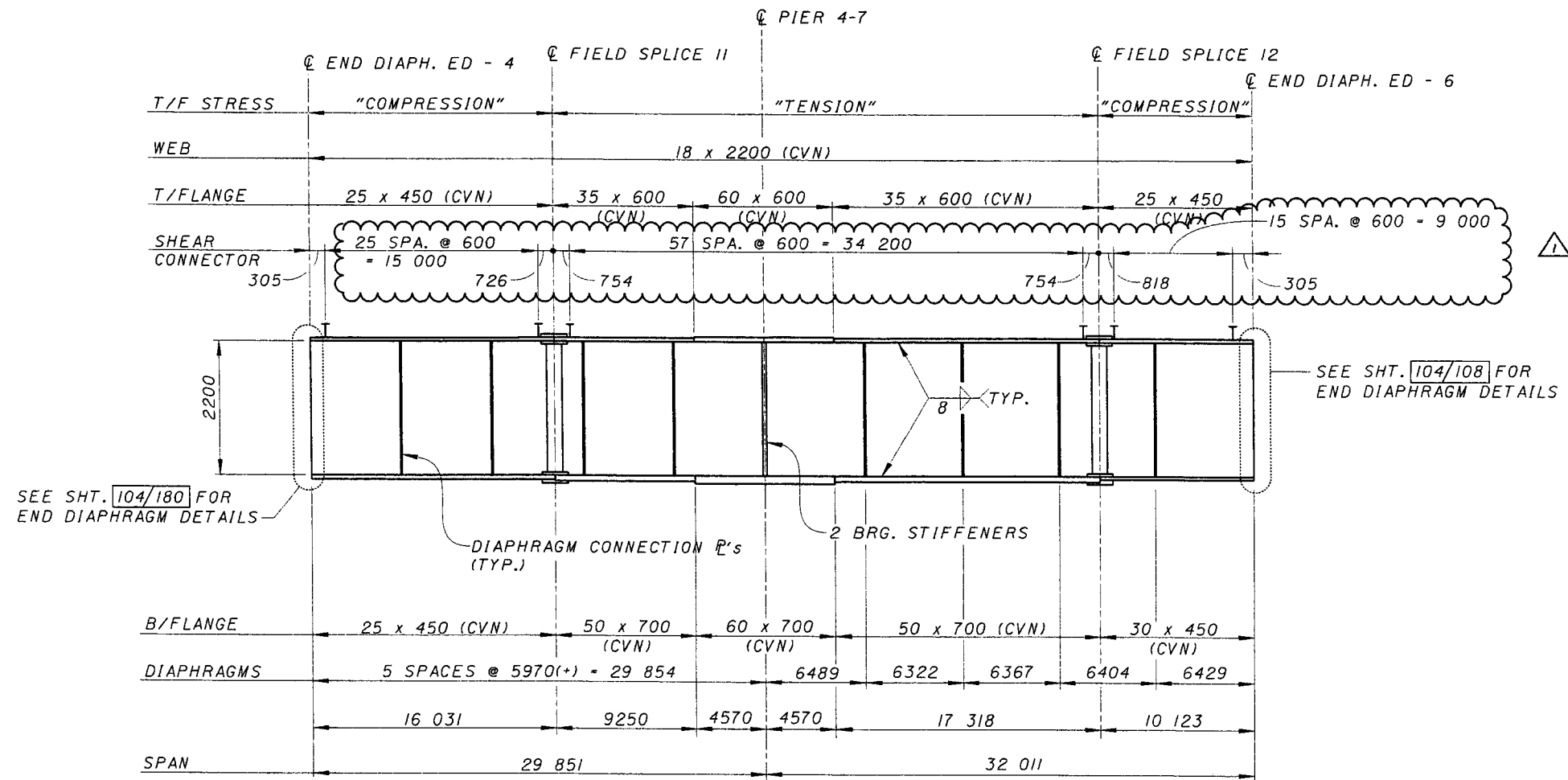
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REVISION NO.	DESCRIPTION	DATE	BY
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2	REVISED		
1	REVISED		

DESIGN AGENCY	PARSONS BRINCKERHOFF, INC.
DATE	9-7-99
REVISED	3103412
STRUCTURE FILE NUMBER	
DRAWN	JJW
CHECKED	MJB
REVISED	

REVISION NO. 3	137
SEPT. 7, 1999	232

CITY OF CINCINNATI
 CONTRACT NO. 75X5753
 PLATE GIRDER ELEVATIONS, UNIT 3 - G3
 BRIDGES NO. 2 & 4
 RAMPS B & C
 85/180



GIRDER ELEVATION (G4)

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REV. SHEAR CONNECTORS	7-12-99	DDE

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

DESIGNED	DATE	REVIEWED	DATE
MJB		JJW	
CHECKED		REVISED	

STRUCTURE FILE NUMBER: 3103412

PLATE GIRDER ELEVATIONS, UNIT 3 - G4
 BRIDGES NO. 2 & 4
 RAMPS B & C

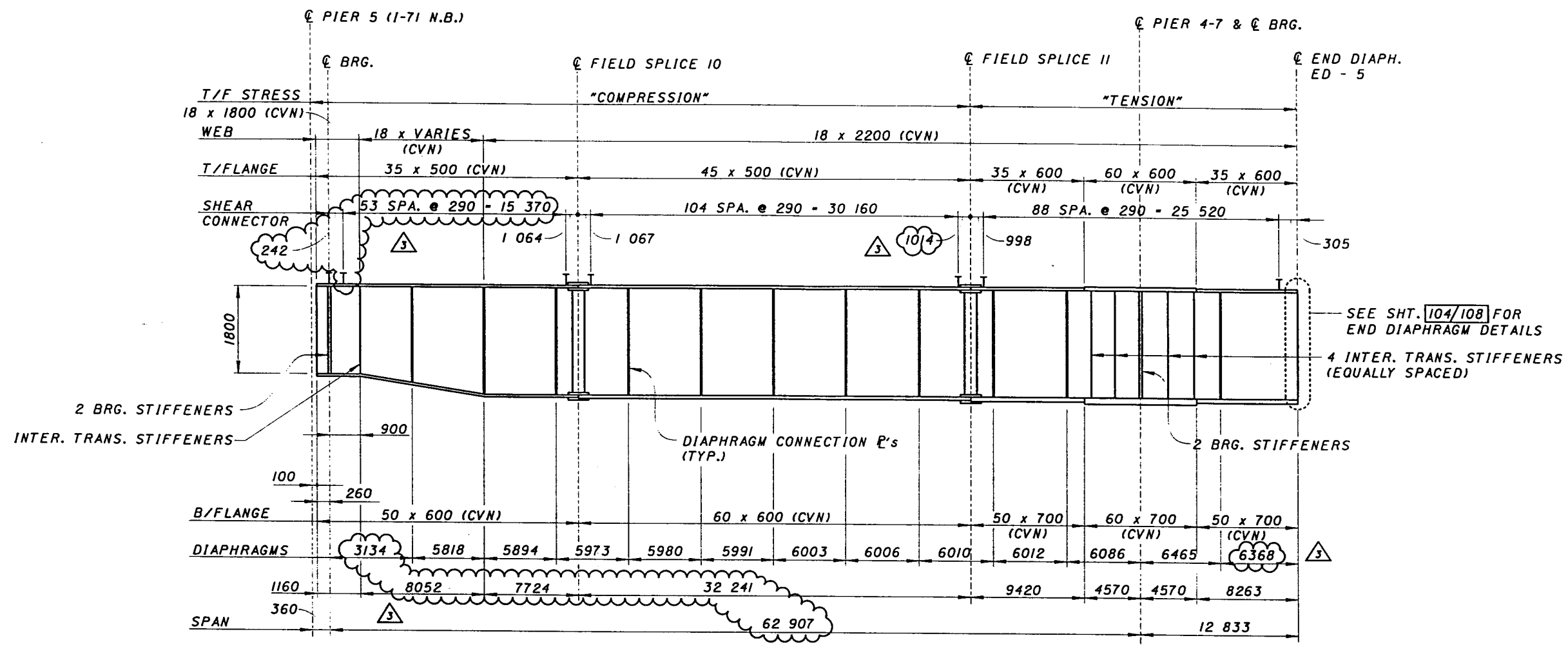
CITY OF CINCINNATI
 CONTRACT No. 75X5753

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9/7/99

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GIRDER ELEVATION (G5)

NOTE:

1. HORIZONTAL DIMENSIONS ARE MEASURED ALONG THE CENTERLINE OF GIRDER WEB.

REVISION NO.	DESCRIPTION	DATE	BY
3	REV. DIMENSIONS	9-7-99	DDE

REVISION NO. 3	DESCRIPTION	DATE	BY
3	REV. DIMENSIONS	9-7-99	DDE

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

DATE: 9-7-99
 DRAWN: J/JW
 CHECKED: M/JB
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CITY OF CINCINNATI
 CONTRACT No. 75X5753

87/180

REVISION NO. 3
 SEPT. 7, 1999

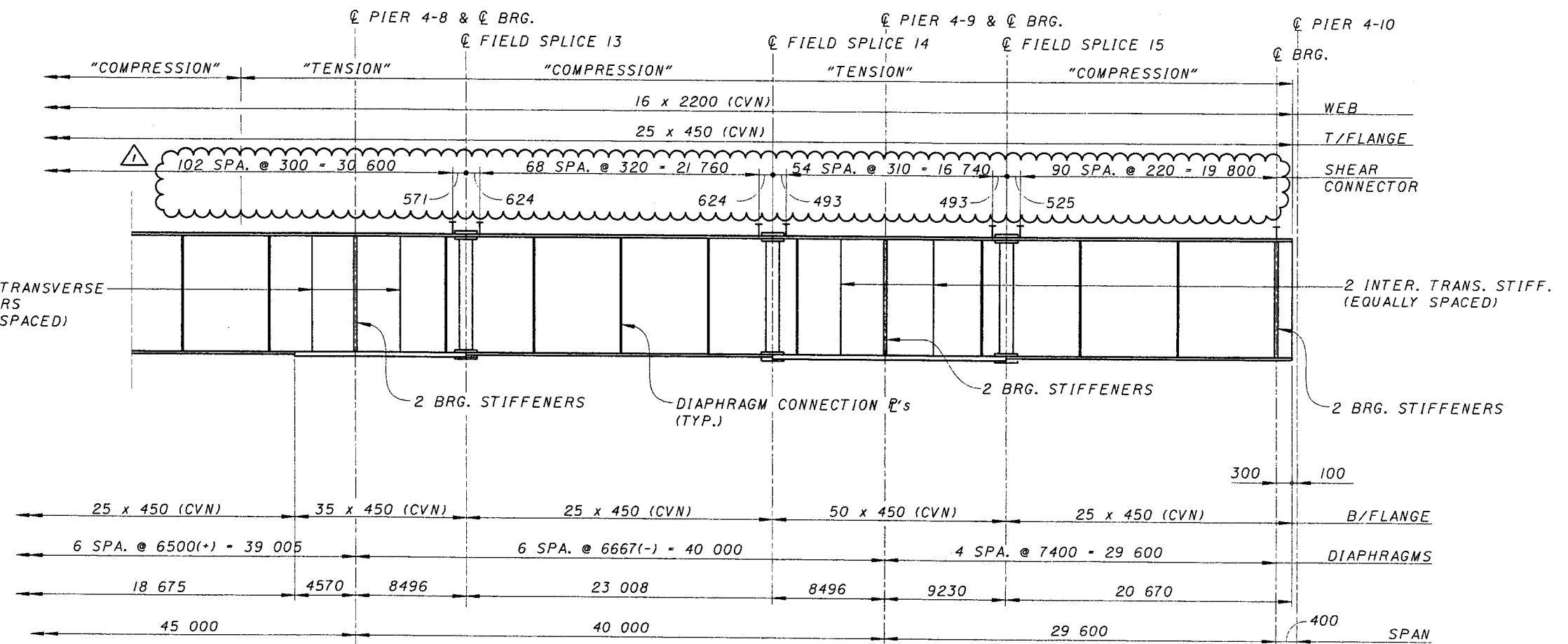
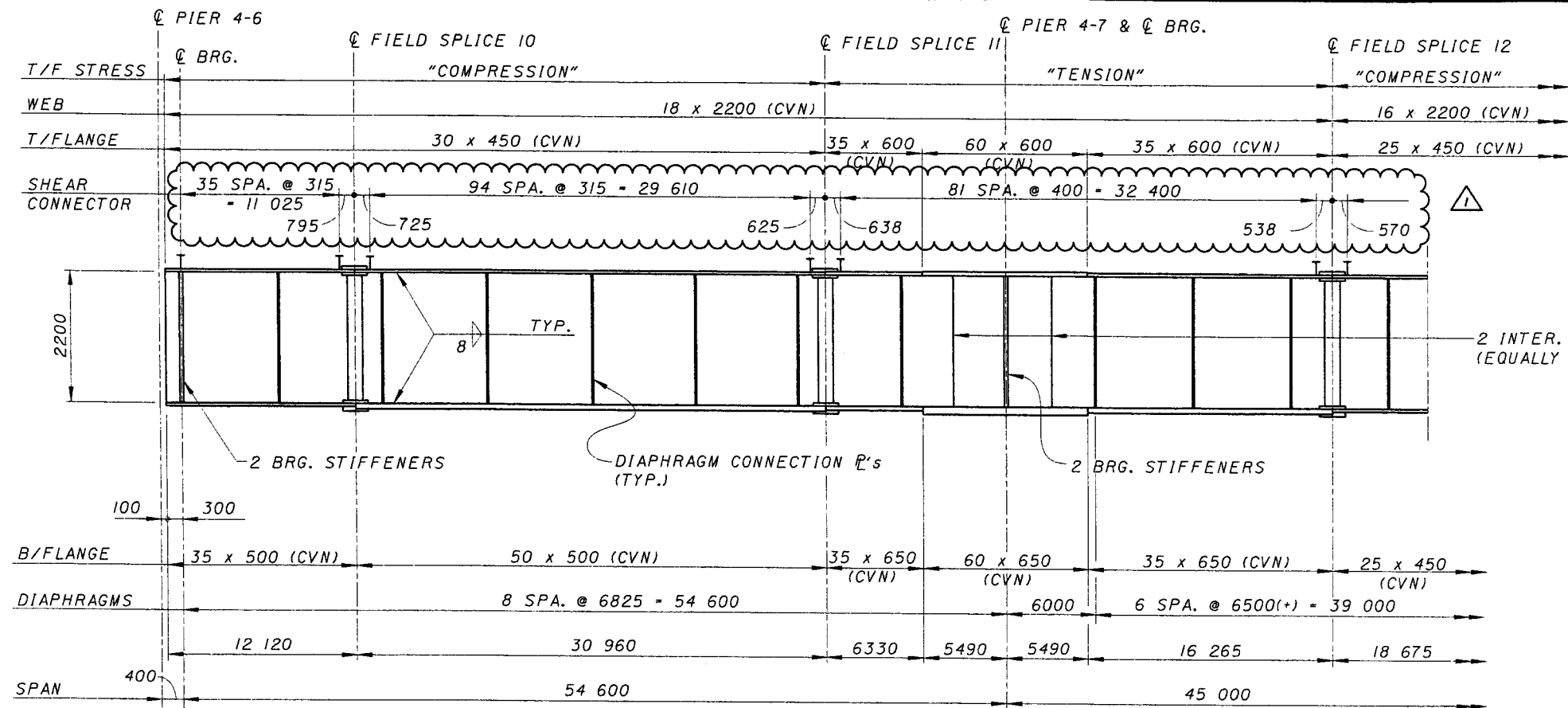
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Mon Jul 12 17:15:35 1999

7/12/99

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NOTE:

1. HORIZONTAL DIMENSIONS ARE MEASURED ALONG THE CENTERLINE OF GIRDER WEB.

GIRDER ELEVATION (G6)

REVISION NO.	ADDENDUM	DESCRIPTION	DATE	BY
1		REV. SHEAR CONNECTORS	7-12-99	DDE
		DESIGNED MJB		
		CHECKED		
		DRAWN JJW		
		REVIEWED		
		DATE		
		REVIEWED		
		STRUCTURE FILE NUMBER		
		3103412		

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

PLATE GIRDER ELEVATIONS, UNIT 3 - G6
BRIDGES NO. 2 & 4
RAMPS B & C

CITY OF CINCINNATI
CONTRACT No. 75X5753

88/180

ADDENDUM NO. 1
JULY 12, 1999

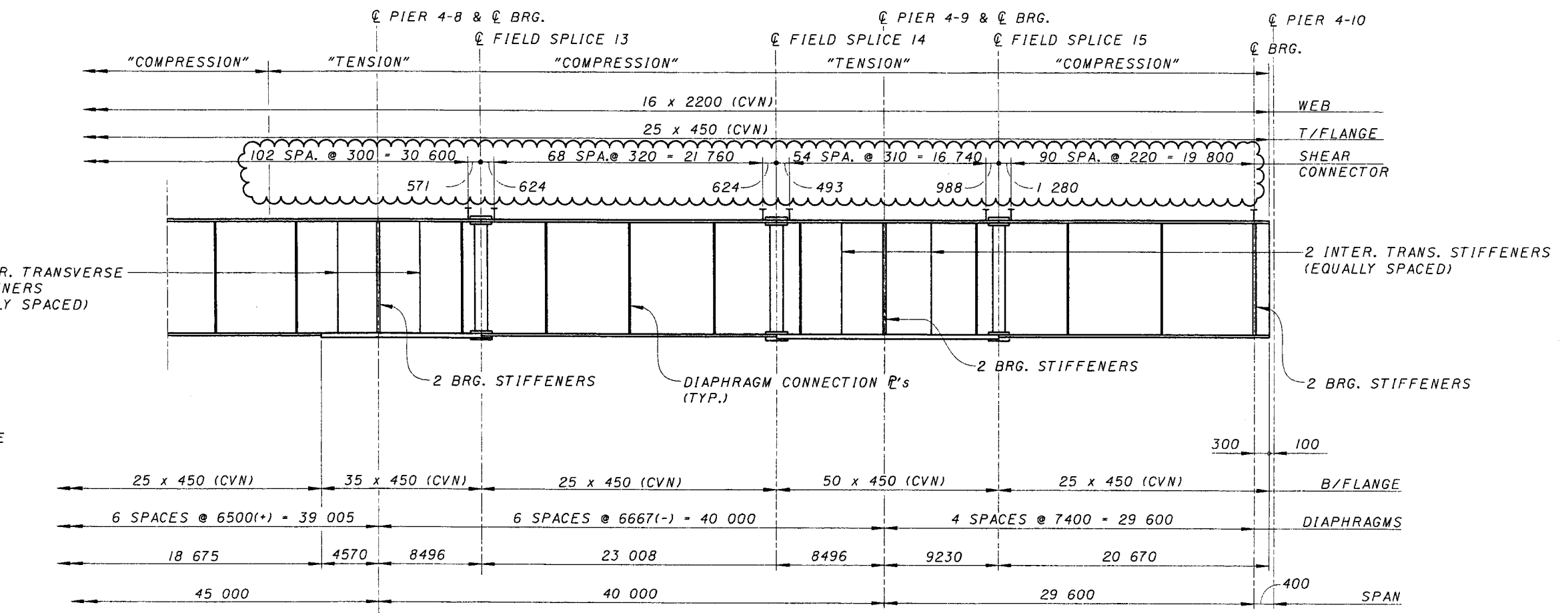
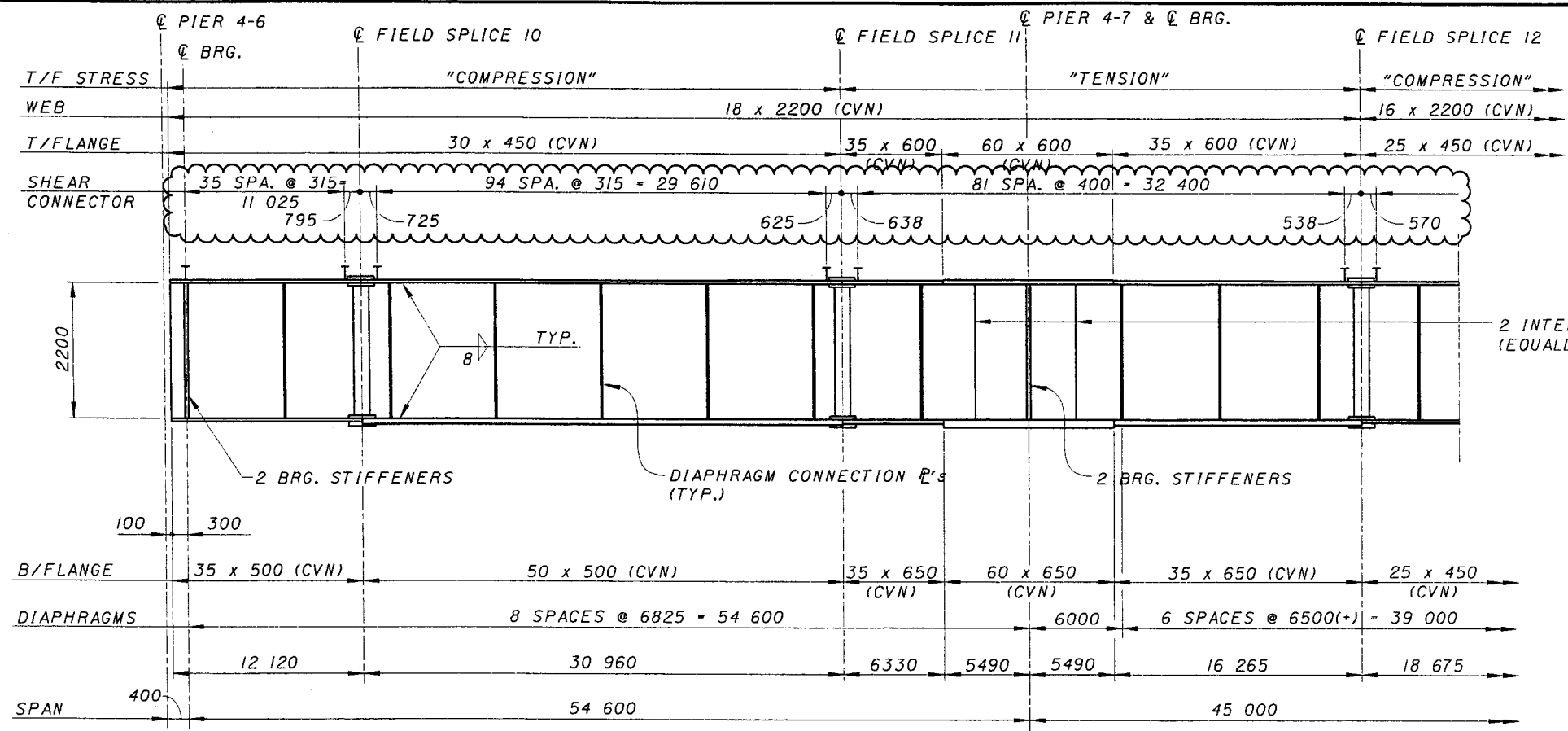
140
232

Mon Jul 12 17:16:11 1999

7/12/99

G:\CADD\PRF\YES\04pg0721.prp

G:\Cadd\fw\w07\bridges\04\04pg0721.dgn



NOTE:

1. HORIZONTAL DIMENSIONS ARE MEASURED ALONG THE CENTERLINE OF GIRDER WEB.

GIRDER ELEVATION (G7)

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REV. SHEAR CONNECTORS	7-12-99	DDE
DESIGNED MJB	DRAWN JJW	REVIEWED DATE 3/03/12	DESIGN AGENCY PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720
CHECKED	REVISOR	STRUCTURE FILE NUMBER 3/03/12	

PLATE GIRDER ELEVATIONS, UNIT 3 - G7
BRIDGES NO. 2 & 4
RAMPS B & C

CITY OF CINCINNATI
CONTRACT No. 75X5753

89/180

ADDENDUM NO. 1
JULY 12, 1999

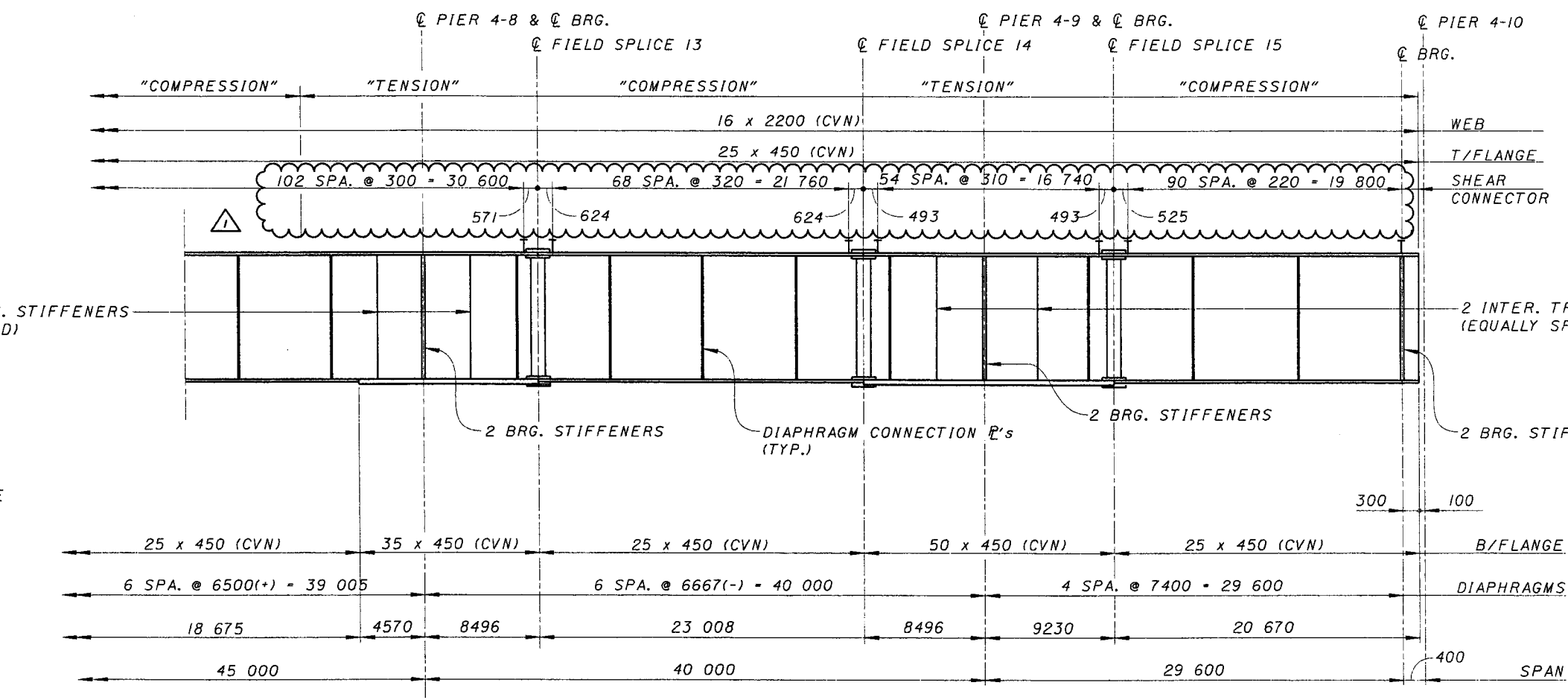
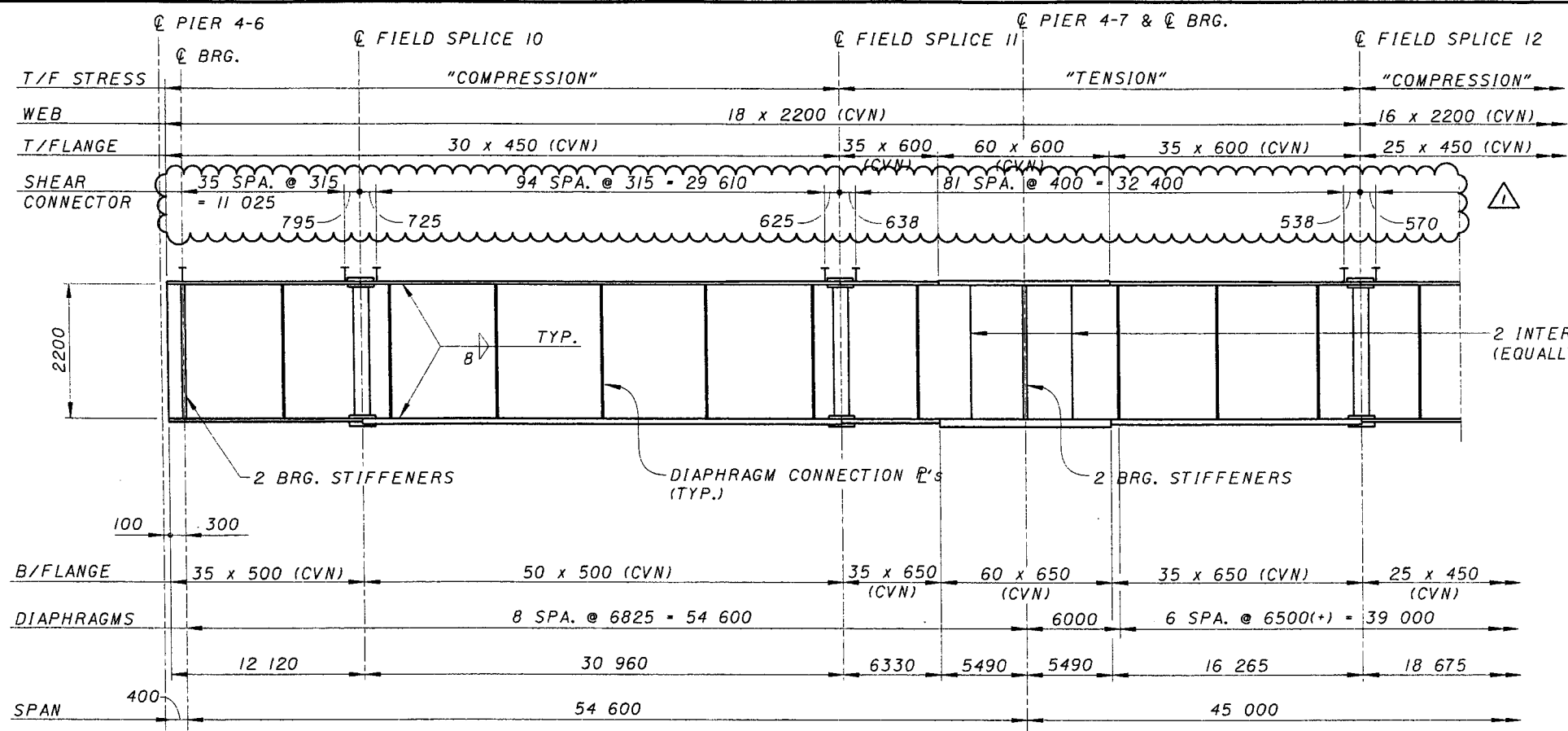
141
232

Mon Jul 12 17:43:41 1999

7/12/99

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G:\Cadd\fw\fw07\bridges\04\04pg0722.dgn



NOTE:
 1. HORIZONTAL DIMENSIONS ARE MEASURED ALONG THE CENTERLINE OF GIRDER WEB.

GIRDER ELEVATION (G8)

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REV. SHEAR CONNECTORS	7-12-99	DDE
DESIGNED MJB	DATE		
CHECKED	REVISED		
DRAWN JJW	REVISED		
STRUCTURE FILE NUMBER	3/034/2		

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

PLATE GIRDER ELEVATIONS, UNIT 3 - G8
 BRIDGES NO. 2 & 4
 RAMPS B & C

CITY OF CINCINNATI
 CONTRACT No. 75X5753

90/180

ADDENDUM NO. 1
JULY 12, 1999

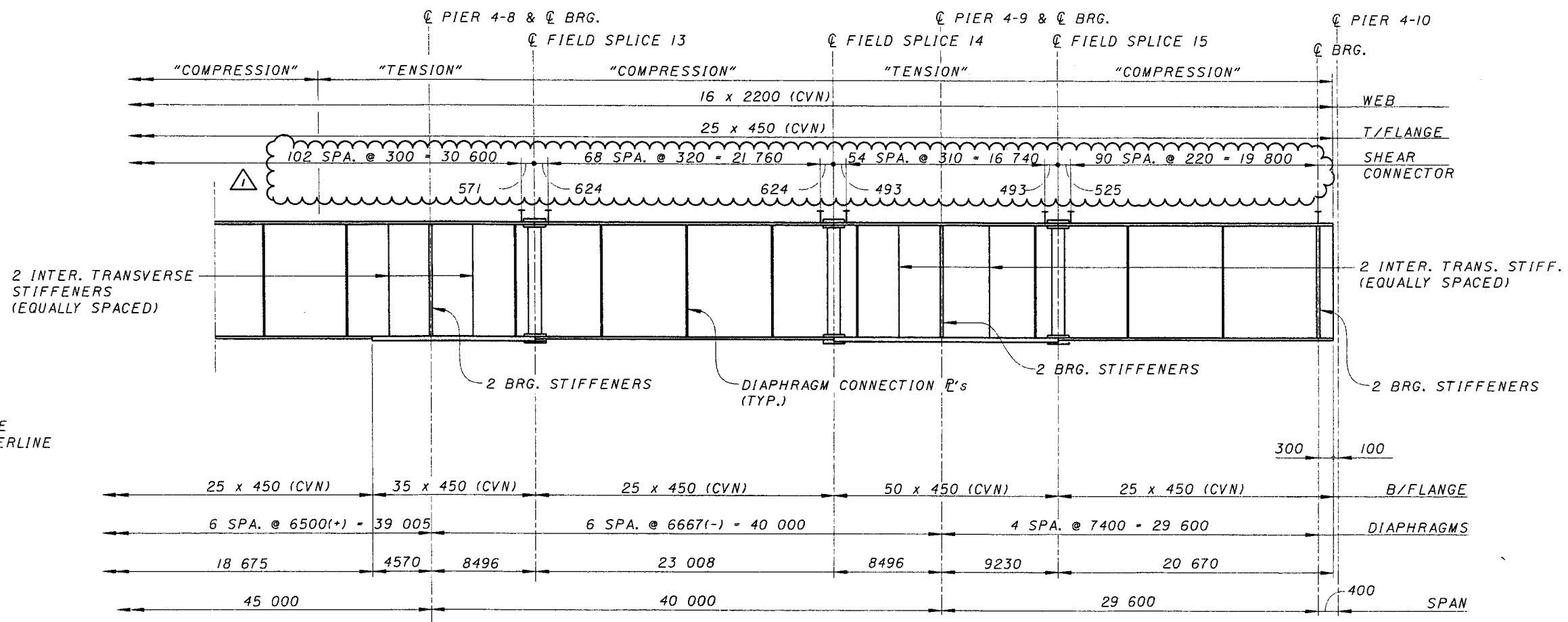
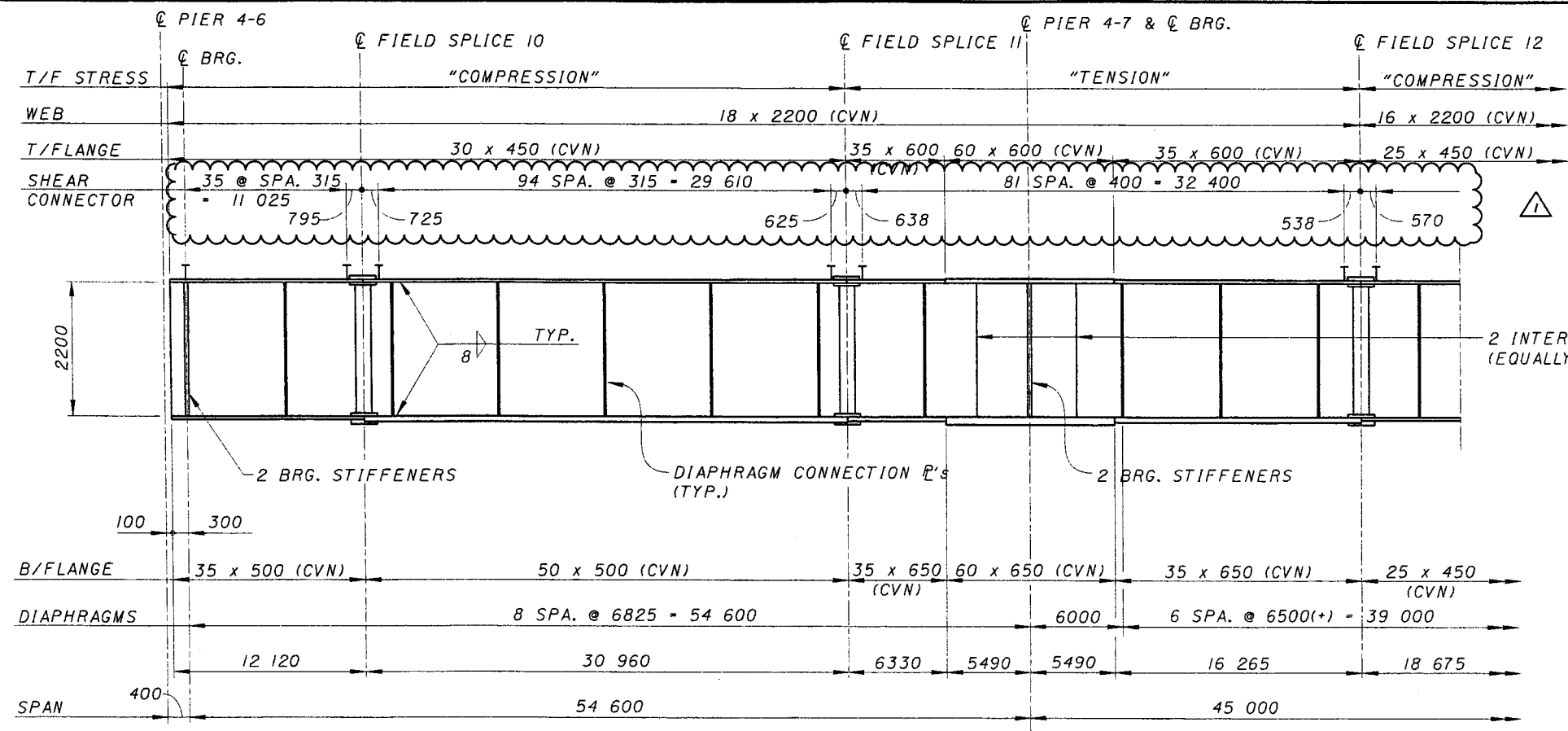
142
 232

Mon Jul 12 17:48:02 1999

7/12/99

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NOTE:
 1. HORIZONTAL DIMENSIONS ARE MEASURED ALONG THE CENTERLINE OF GIRDER WEB.

GIRDER ELEVATION (G9)

REVISION NO.	ADDDENDUM	DESCRIPTION	DATE	BY
1		REV. SHEAR CONNECTORS	7-12-99	DDE

DESIGNED	DATE	DESIGN AGENCY
MJB		PARSONS BRINCKERHOFF, INC.
CHECKED		312 ELM STREET SUITE 2500
DRAWN	DATE	CINCINNATI, OH 45202-2720
JJW		
REVISED	STRUCTURE FILE NUMBER	
	3703412	

CITY OF CINCINNATI
CONTRACT No. 75X5753

PLATE GIRDER ELEVATIONS, UNIT 3 - G9
 BRIDGES NO. 2 & 4
 RAMPS B & C

91/180

ADDDENDUM NO. 1
JULY 12, 1999

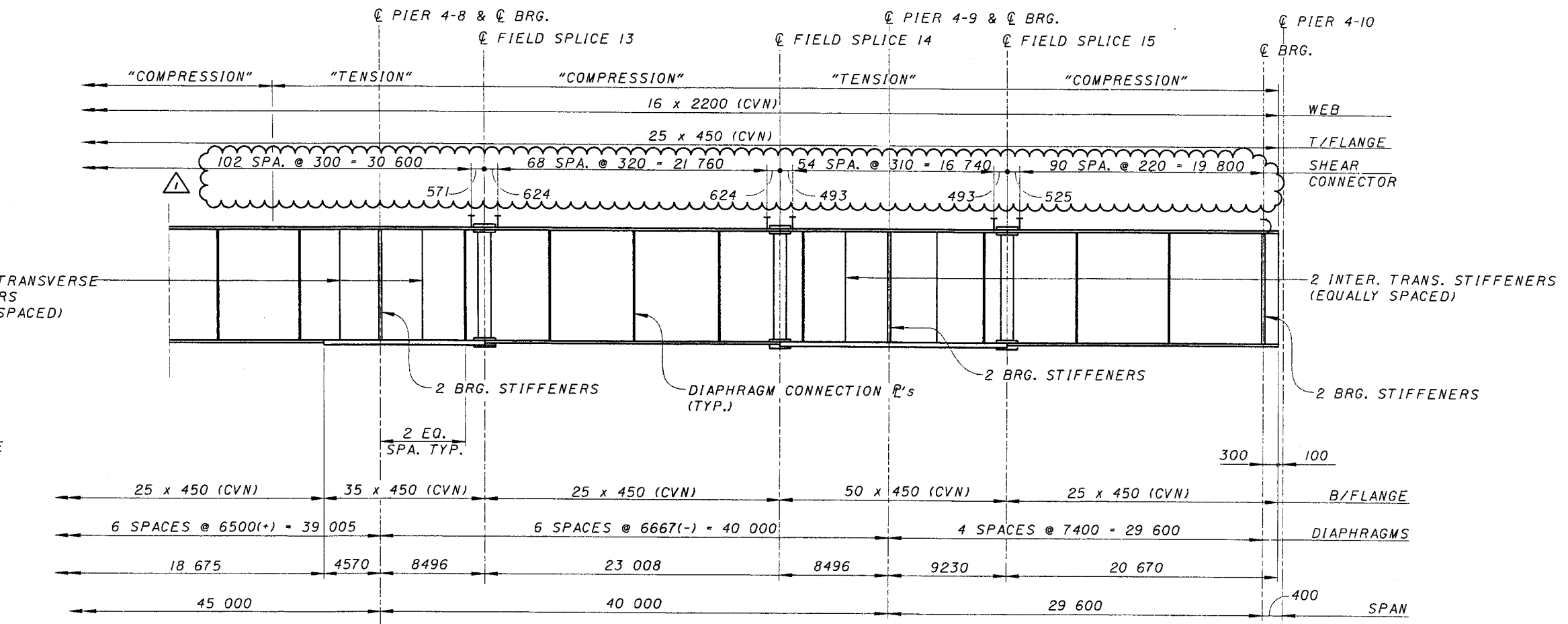
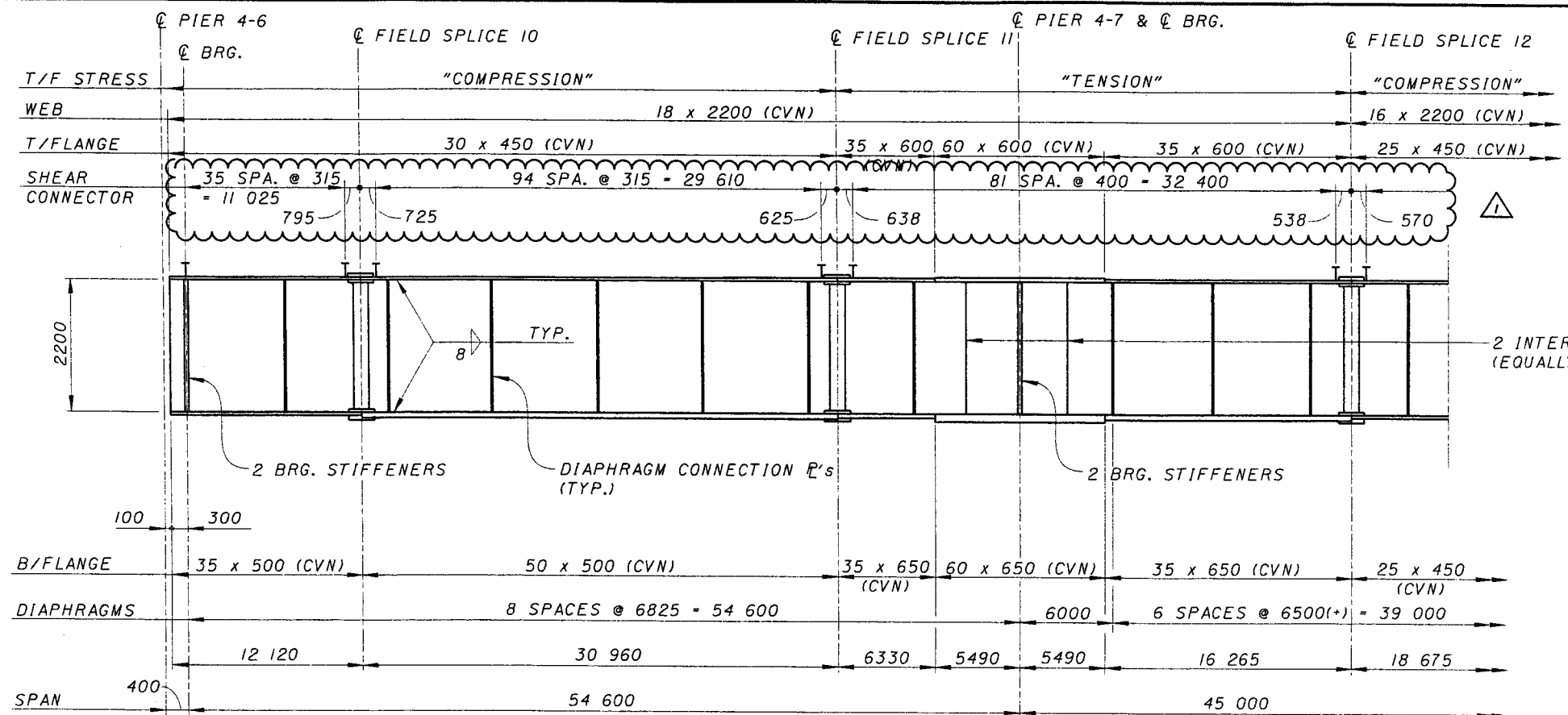
143
232

Mon, Jul 12 17:25:23 1999

7/12/99

G:\CADD\PRF\YES\04pg0724.prp

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NOTE:
 1. HORIZONTAL DIMENSIONS ARE MEASURED ALONG THE CENTERLINE OF GIRDER WEB.

GIRDER ELEVATION (G10)

REVISION NO.	ADDENDUM	DESCRIPTION	DATE	BY
1		REV. SHEAR CONNECTORS	7-12-99	DDE

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

DESIGNED: MJB
 DRAWN: JJW
 CHECKED: []
 REVISED: []
 DATE: []
 STRUCTURE FILE NUMBER: 3703412

PLATE GIRDER ELEVATIONS, UNIT 3 - G10
 BRIDGES NO. 2 & 4
 RAMPS B & C

CITY OF CINCINNATI
CONTRACT No. 75X5753

92/180

ADDENDUM NO. 1
JULY 12, 1999

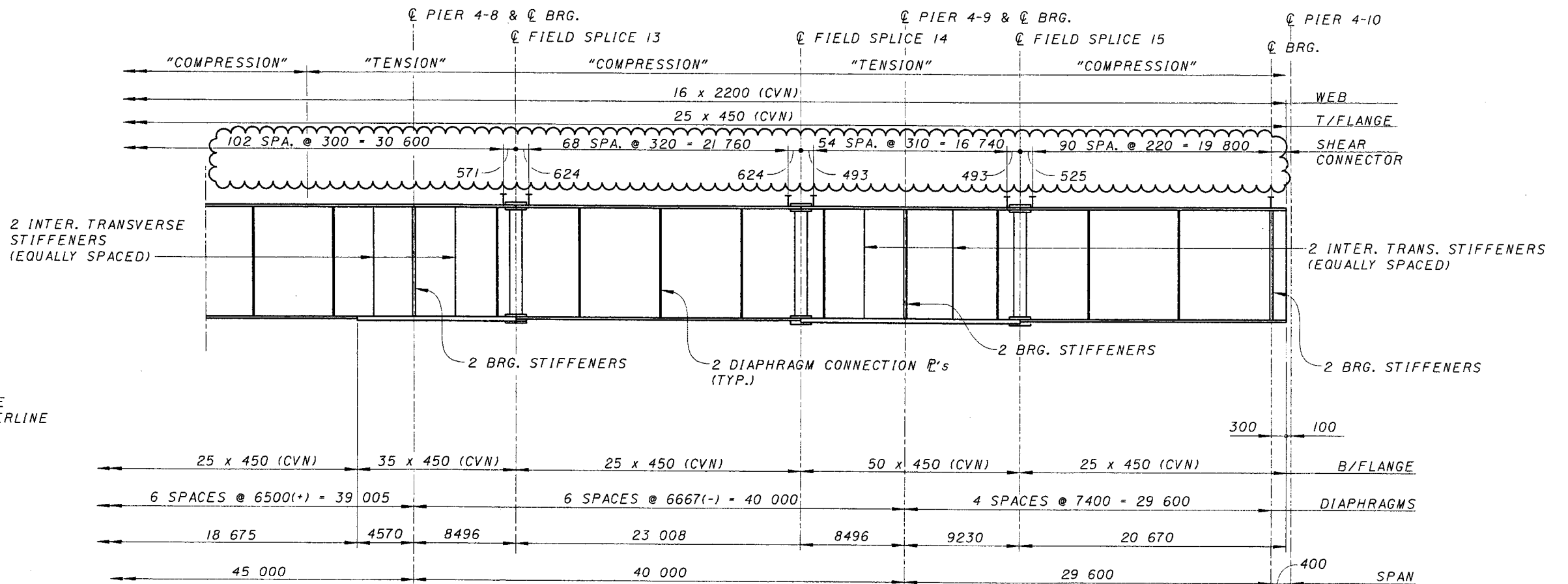
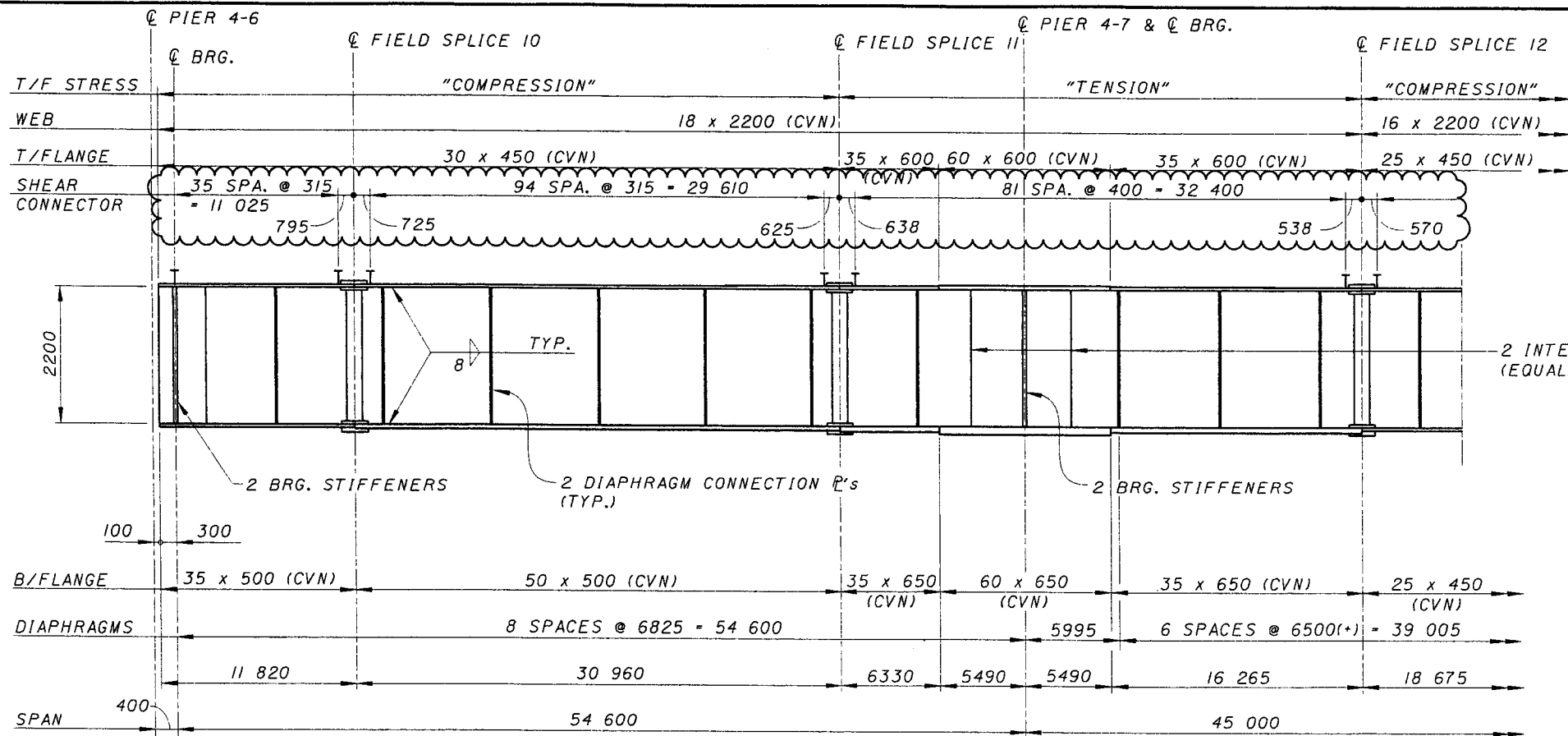
144
 232

Mon Jul 12 17:25:56 1999

7/12/99

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NOTE:

- 1. HORIZONTAL DIMENSIONS ARE MEASURED ALONG THE CENTERLINE OF GIRDER WEB.

GIRDER ELEVATION (GII)

REVISION NO.	ADDENDUM	DESCRIPTION	DATE	BY
		REV. SHEAR CONNECTORS	7-12-99	DDE

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

DATE
 STRUCTURE TITLE NUMBER
 31034/2

DRAWN
 J/JW
 CHECKED
 M/JB

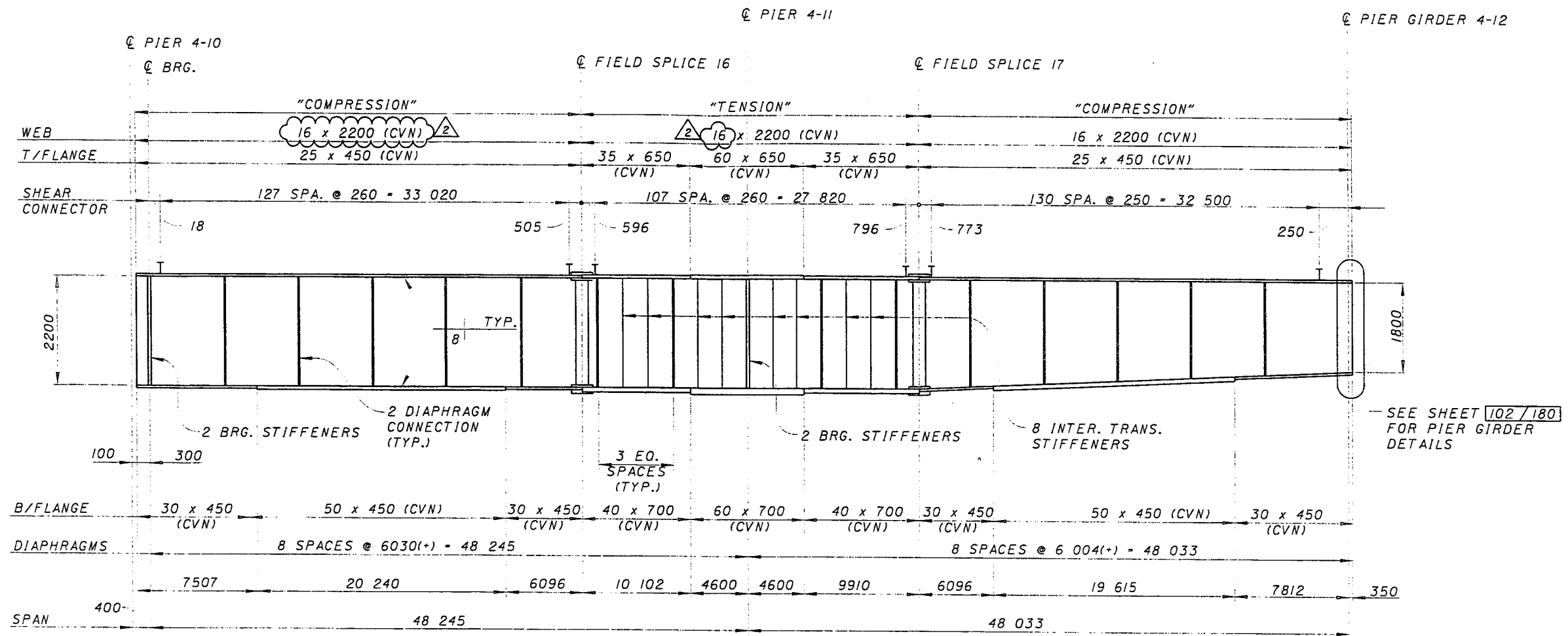
PLATE GIRDER ELEVATIONS, UNIT 3 - GII
 BRIDGES NO. 2 & 4
 RAMPS B & C

CITY OF CINCINNATI
CONTRACT No. 75X5753

93/180

ADDENDUM NO. 1
JULY 12, 1999

145
 232



NOTE:

- HORIZONTAL DIMENSIONS ARE MEASURED ALONG THE CENTERLINE OF GIRDER WEB.

REVISION NO.	DESCRIPTION	DATE	BY
REVISION 2	REVISED PLATE SIZES	8-8-99	LAE
DESIGNED BY: MJB	REVIEWED BY: JWW	DATE: 3/03/12	DESIGN AGENCY: PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720

PLATE GIRDER ELEVATIONS, UNIT 4 - G1
 BRIDGES NO. 2 & 4
 RAMPS B & C

CITY OF CINCINNATI
 CONTRACT No. 75X5753

94 / 180

REVISION NO. 2
AUGUST 6, 1999

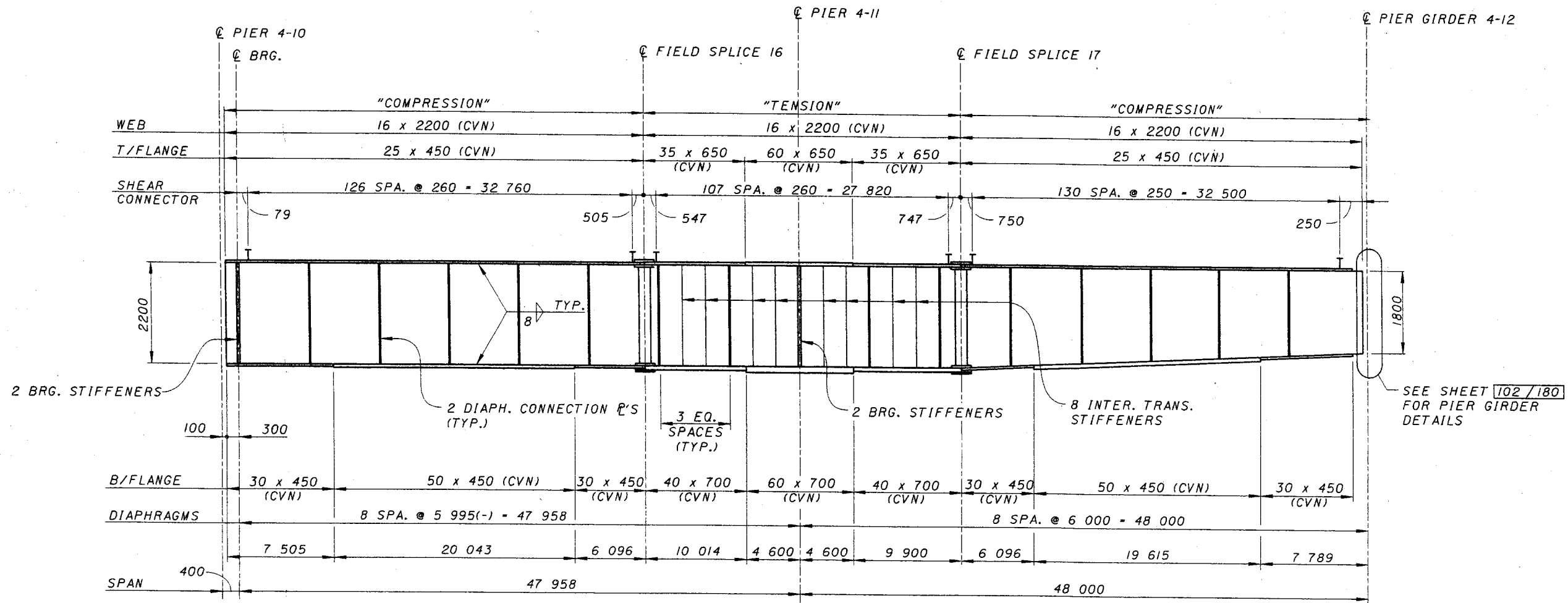
146
232

Thu Jun 17 14:16:13 1999

6/17/99

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g:\cadd\fw\fw07\bridges\04\04pg0727.dgn



GIRDER ELEVATION (G2)

NOTE:

1. HORIZONTAL DIMENSIONS ARE MEASURED ALONG THE CENTERLINE OF GIRDER WEB.

SEE SHEET 102/180 FOR PIER GIRDER DETAILS

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

DATE
REVIEWED
STRUCTURE FILE NUMBER
3/03/12

DRAWN
J/JW
REVISED

DESIGNED
M/JB
CHECKED

PLATE GIRDER ELEVATIONS, UNIT 4 - G2
BRIDGE NO. 4
RAMP B

CITY OF CINCINNATI
CONTRACT No. 75X5753

95/180

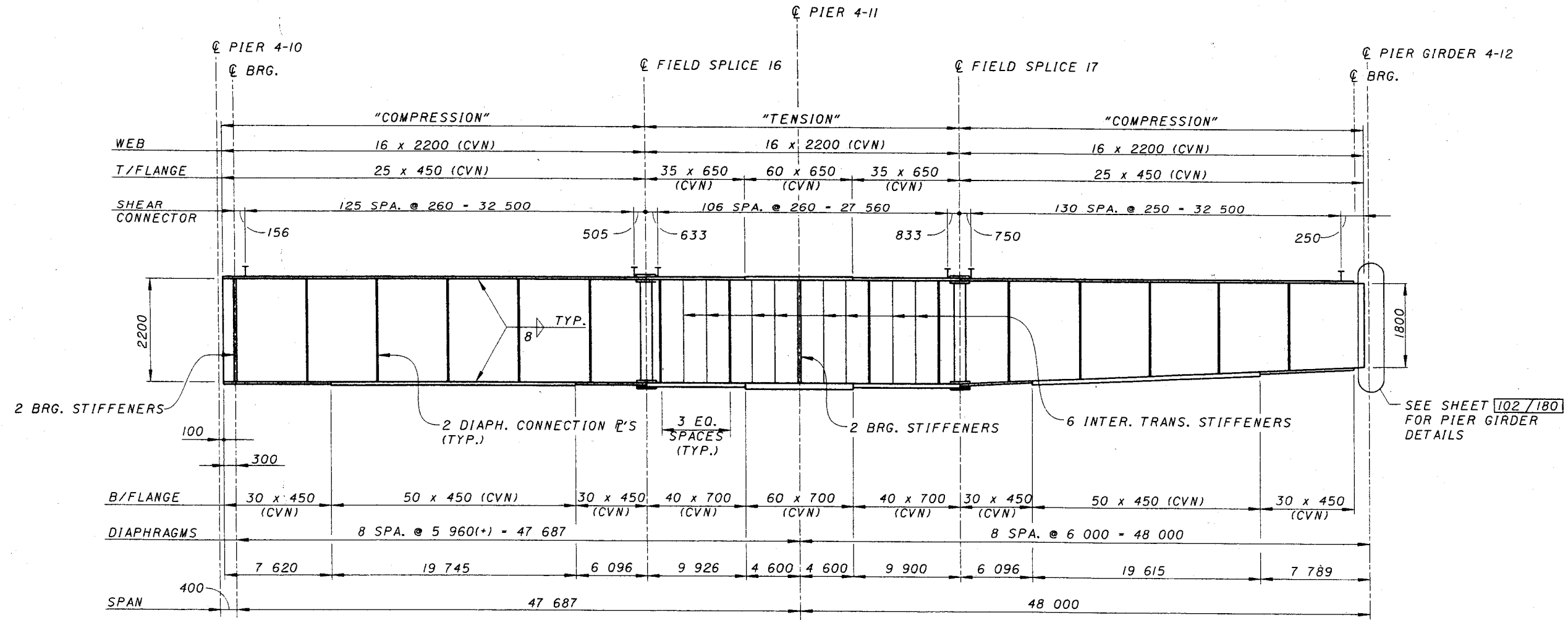
147
232

Thu Jun 17 14:19:04 1999

6/17/99

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GIRDER ELEVATION (G3)

NOTE:

1. HORIZONTAL DIMENSIONS ARE MEASURED ALONG THE CENTERLINE OF GIRDER WEB.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

DATE
REVIEWED
STRUCTURE FILE NUMBER
3103412

DRAWN
J/W

DESIGNED
MJB
CHECKED

PLATE GIRDER ELEVATIONS, UNIT 4 - G3
BRIDGE NO. 4
RAMP B

CITY OF CINCINNATI
CONTRACT No. 75X5753

96/180

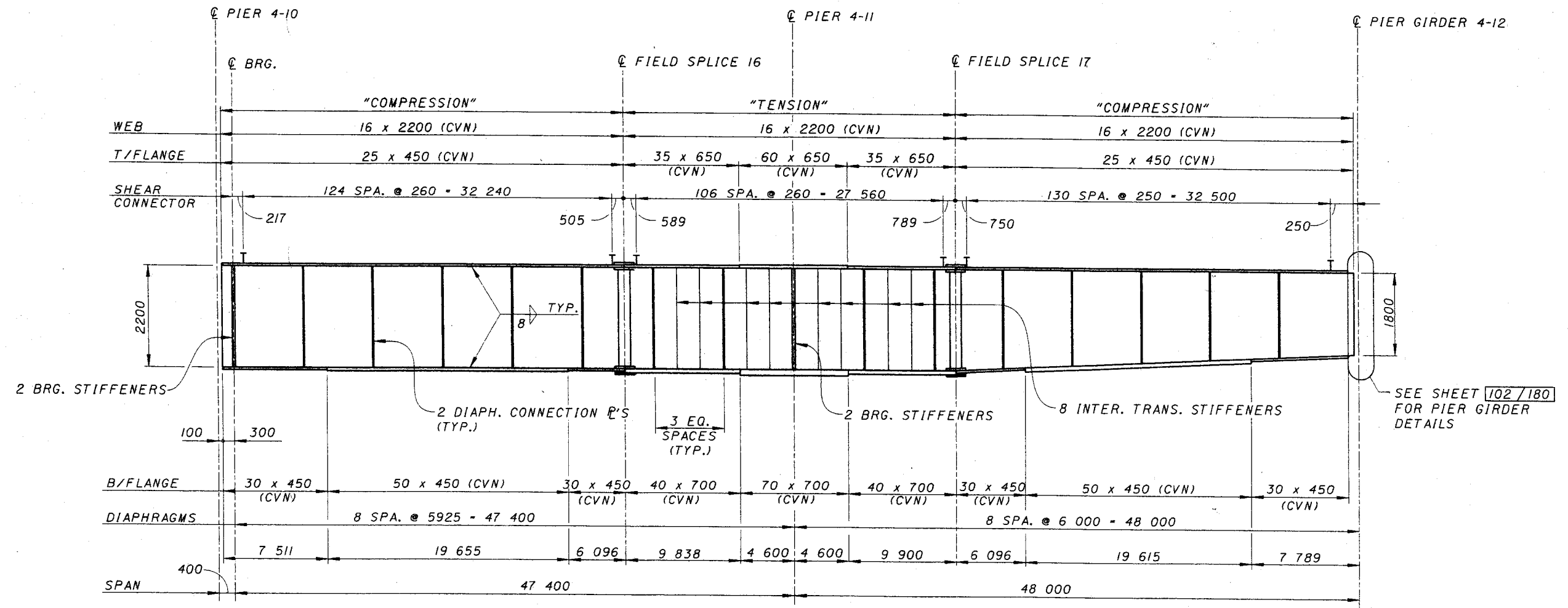
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232

Thu Jun 17 14:20:51999

6/17/99

G:\CADD\PRF\XES\04pg0729.prp

G:\cadd\fw\fw07\bridges\04\04pg0729.dgn



GIRDER ELEVATION (G4)

NOTE:

1. HORIZONTAL DIMENSIONS ARE MEASURED ALONG THE CENTERLINE OF GIRDER WEB.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET SUITE 2500
CINCINNATI, OH 45202-2720

DESIGNED	MJB	CHECKED	
DRAWN	JJW	REVIEWED	
REVIEWED		DATE	
STRUCTURE FILE NUMBER	3705472		

PLATE GIRDER ELEVATIONS, UNIT 4 - G4
BRIDGE NO. 4
RAMP B

CITY OF CINCINNATI
CONTRACT No. 75X5753

97/180

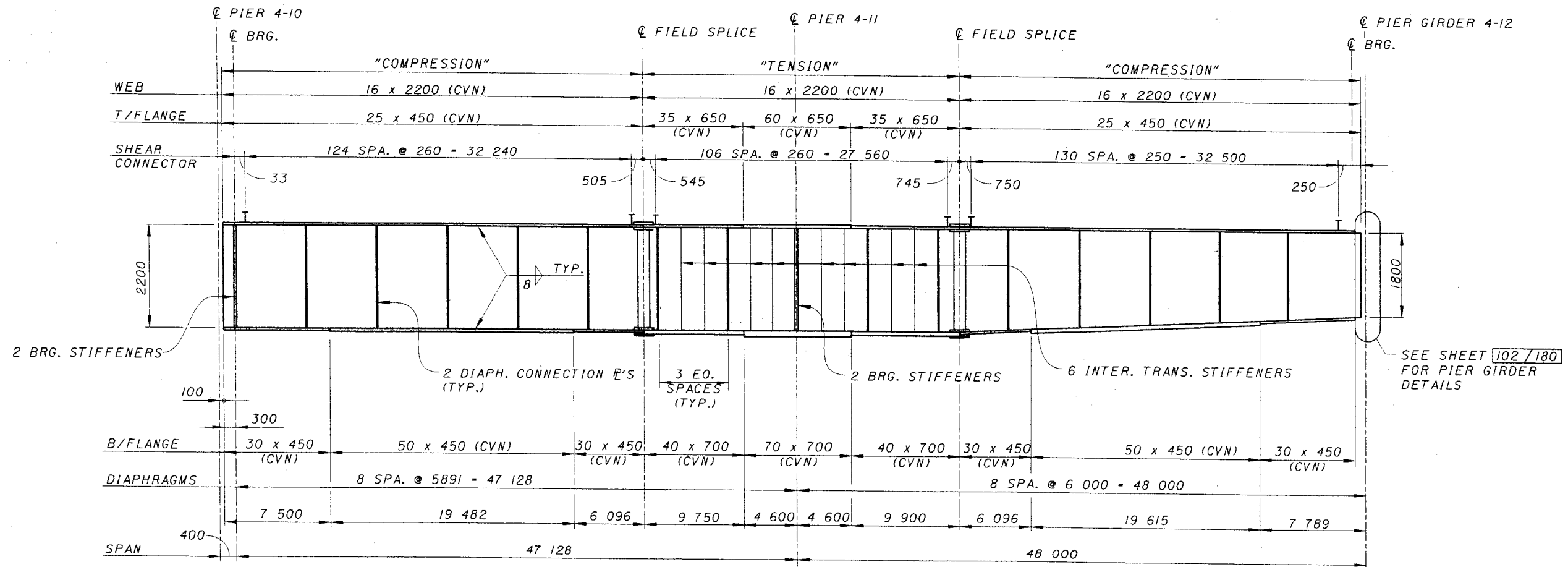
149
232

Thu Jun 17 14:22:38 1999

6/17/99

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G:\CADD\Fww\07\bridges\04\04pg0730.dgn



GIRDER ELEVATION (G5)

NOTE:

1. HORIZONTAL DIMENSIONS ARE MEASURED ALONG THE CENTERLINE OF GIRDER WEB.

DESIGN AGENCY
PR
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2120

DATE	
REVIEWED	STRUCTURE FILE NUMBER 3103412
DRAWN	REVISED
JW	
DESIGNED	CHECKED
MJB	

PLATE GIRDER ELEVATIONS, UNIT 4 - G5
BRIDGE NO. 4
RAMP B

CITY OF CINCINNATI
CONTRACT No. 75X5753

98/180

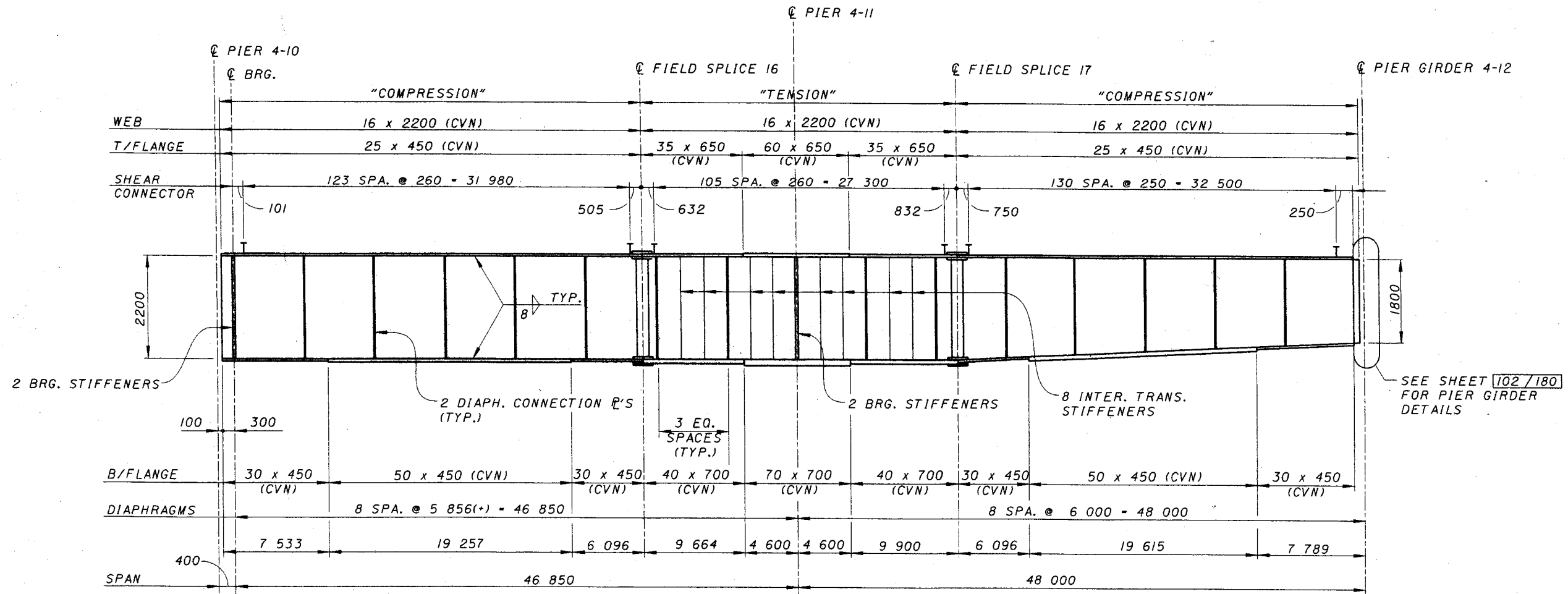
150
232

Thu Jun 17 14:25:29 1999

6/17/99

G:\CADD\PRF\XES\04pg073i.prp

G:\cadd\fw\fw07\bridges\04\04pg073i.dgn



GIRDER ELEVATION (G6)

NOTE:

1. HORIZONTAL DIMENSIONS ARE MEASURED ALONG THE CENTERLINE OF GIRDER WEB.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET SUITE 2500
CINCINNATI, OH 45202-2720

REVIEWED DATE
STRUCTURE FILE NUMBER
3103412

DRAWN JJJ
DESIGNED MJB
CHECKED

PLATE GIRDER ELEVATIONS, UNIT 4 - G6
BRIDGE NO. 4
RAMP B

CITY OF CINCINNATI
CONTRACT No. 75X5753

99/180

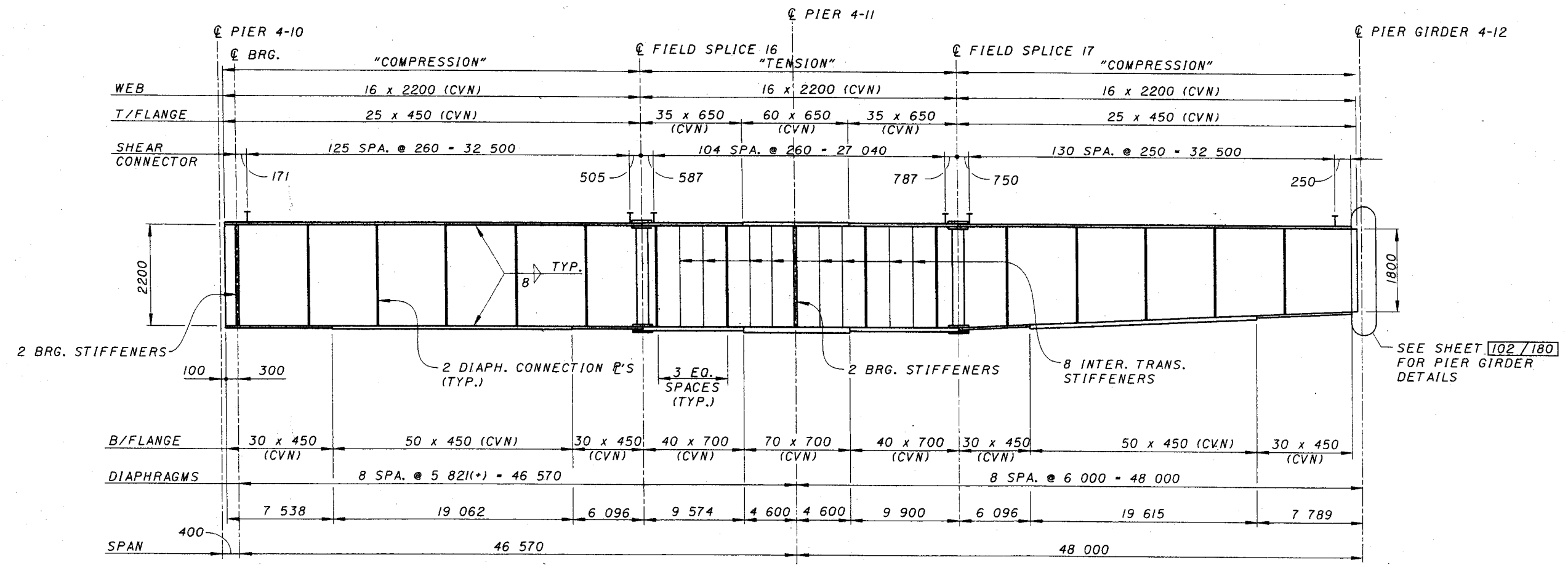
151
232

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6/17/99

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SEE SHEET 102/180 FOR PIER GIRDER DETAILS

NOTE:

1. HORIZONTAL DIMENSIONS ARE MEASURED ALONG THE CENTERLINE OF GIRDER WEB.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET SUITE 2500
CINCINNATI, OH 45202-2720

REVIEWED DATE
STRUCTURE FILE NUMBER
3103412

DRAWN
J/JW

DESIGNED
M/JB

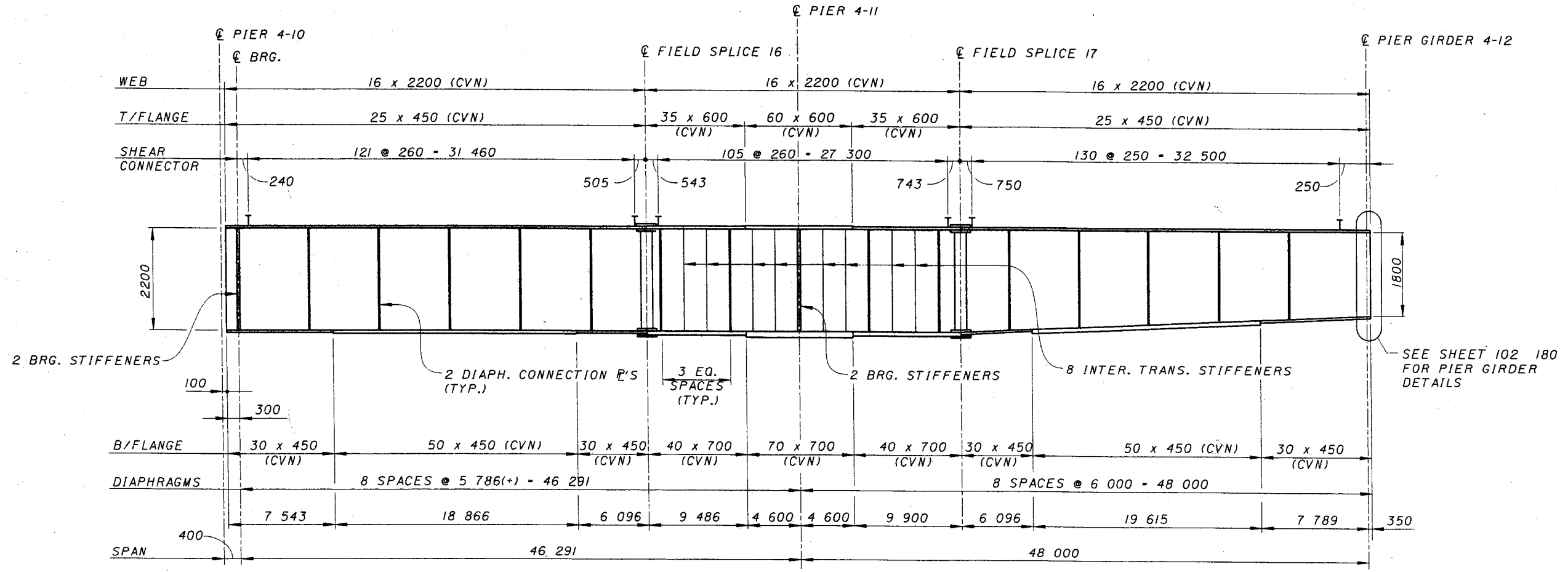
PLATE GIRDER ELEVATIONS, UNIT 4 - G7
BRIDGE NO. 4
RAMP B

CITY OF CINCINNATI
CONTRACT No. 75X5753

100/180

152
232

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 6/17/99
 Thu Jun 17 14:29:04 1999



NOTE:
 1. HORIZONTAL DIMENSIONS ARE MEASURED ALONG THE CENTERLINE OF GIRDER WEB.

SEE SHEET 102 180 FOR PIER GIRDER DETAILS

DESIGN AGENCY
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

PB

DESIGNED	MJB	CHECKED
DRAWN	JJW	REVISED
REVIEWED	DATE	STRUCTURE FILE NUMBER
		3103412

PLATE GIRDER ELEVATIONS, UNIT 4 - G8
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

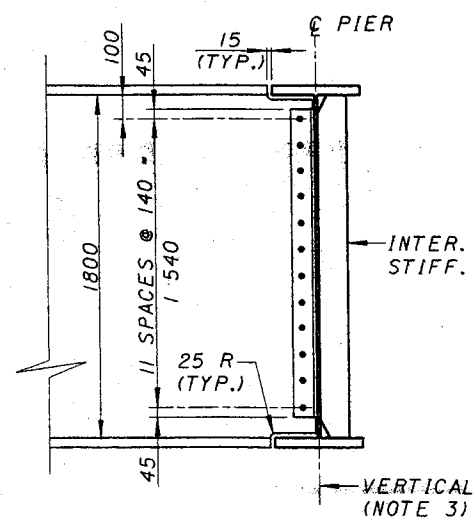
101/180
 153
 232

Thu Jun 17 10:30:14 1999

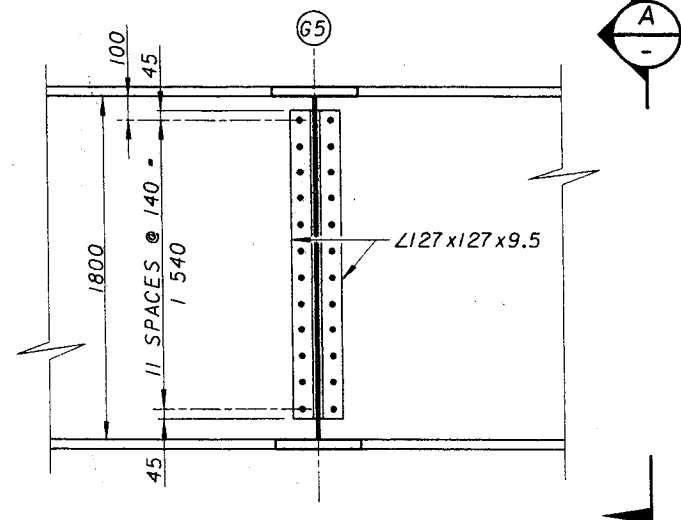
6/17/99

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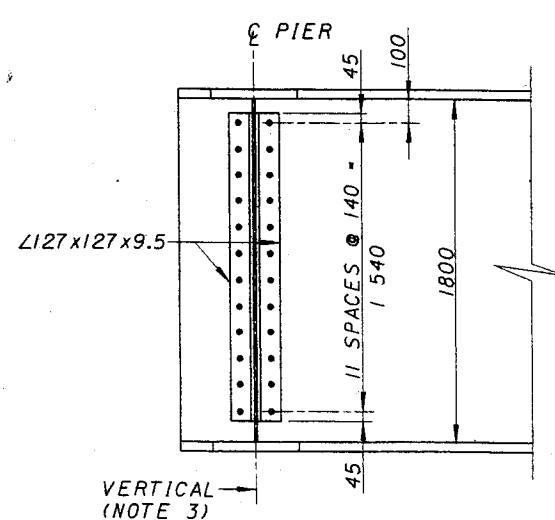
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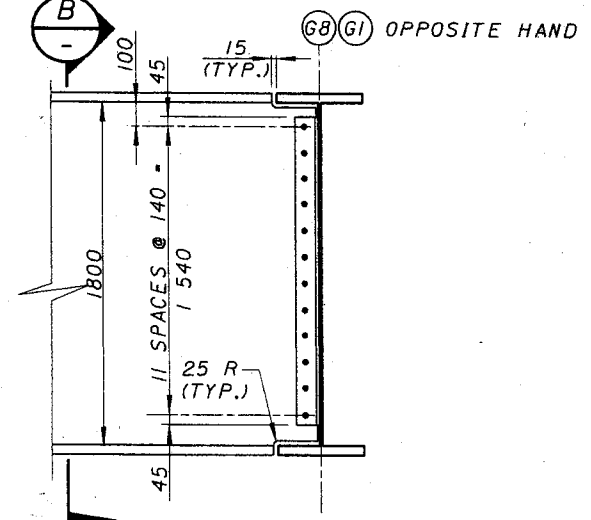
SECTION A



DETAIL 1



SECTION B

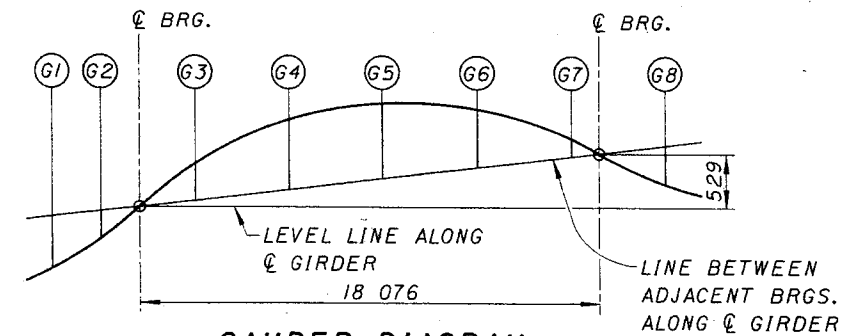


DETAIL 2

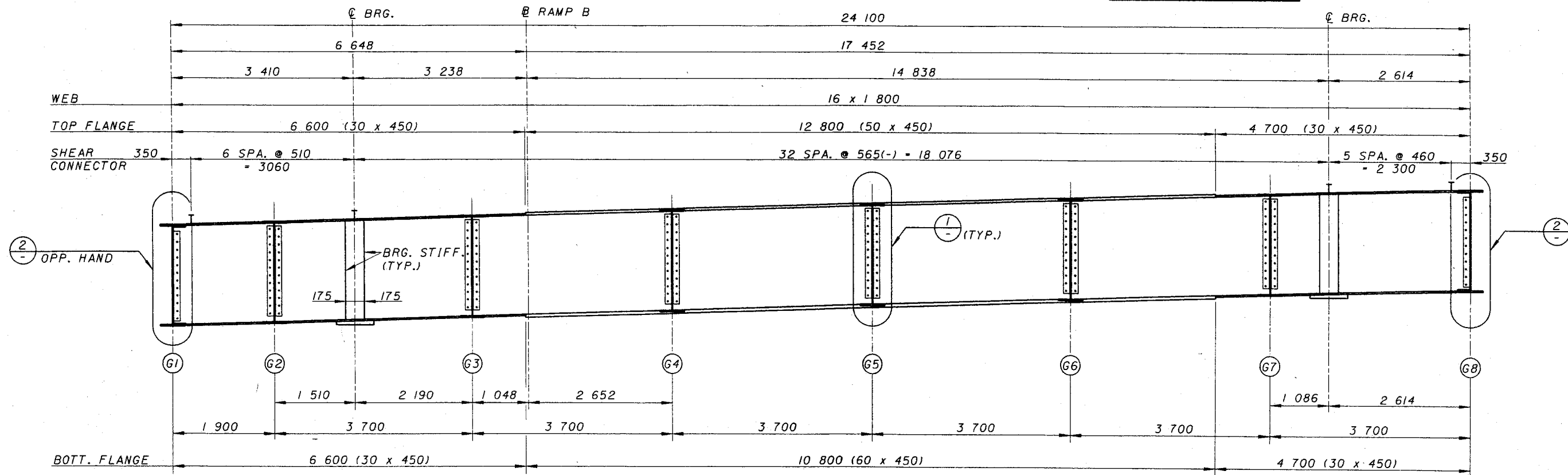
NOTES:

1. WORK THIS SHEET WITH SHEET 105/180
2. CROSS GIRDER WEB AND FLANGES ARE FRACTURE CRITICAL MEMBERS AND SHALL CONFORM TO THE PROVISIONS OF CHAPTER 12 OF ANSI/AASHTO/AWS D1.5 BRIDGE WELDING REQUIREMENTS OF SUPPLEMENTAL SPECIFICATION 863.23. CHARPY V-NOTCH IMPACT TEST REQUIREMENTS SHALL MEET OR EXCEED THE FCM VALUES FOR ZONE 2.
3. PIER GIRDER WEB TO BE VERTICAL AFTER TOTAL DEAD LOAD IS APPLIED.
4. FOR STRUCTURAL STEEL NOTES SEE ST. 57/180

CAMBER CHART								
LOCATION	G1	G2	G3	G4	G5	G6	G7	G8
DEFLECTION DUE TO WEIGHT OF STEEL	-1	-1	1	3	3	2	1	-1
DEFLECTION DUE TO REMAINING DEAD LOAD	-4	-2	4	11	13	10	2	-5
GEOMETRIC CORRECTION	-2	-1	2	4	7	10	10	-24
REQUIRED SHOP CAMBER	-7	-4	7	18	23	22	13	-30



CAMBER DIAGRAM



PIER GIRDER 4 - 12 ELEVATION

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

DATE
 REVIEWED
 DRAWN
 DESIGNED

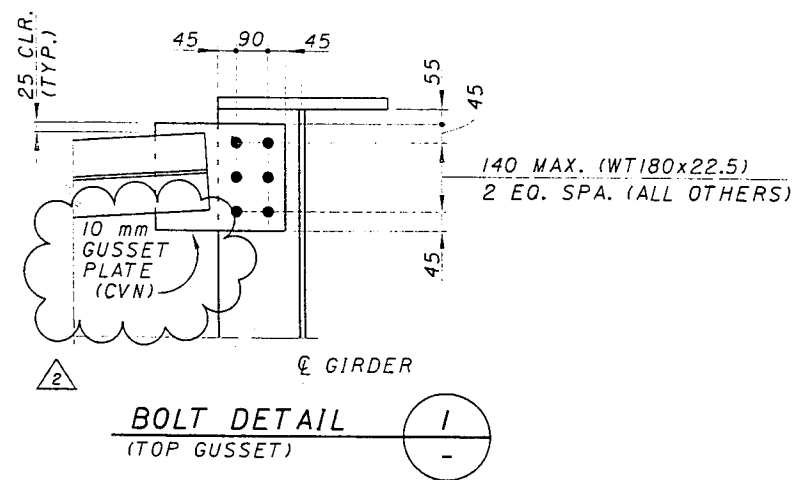
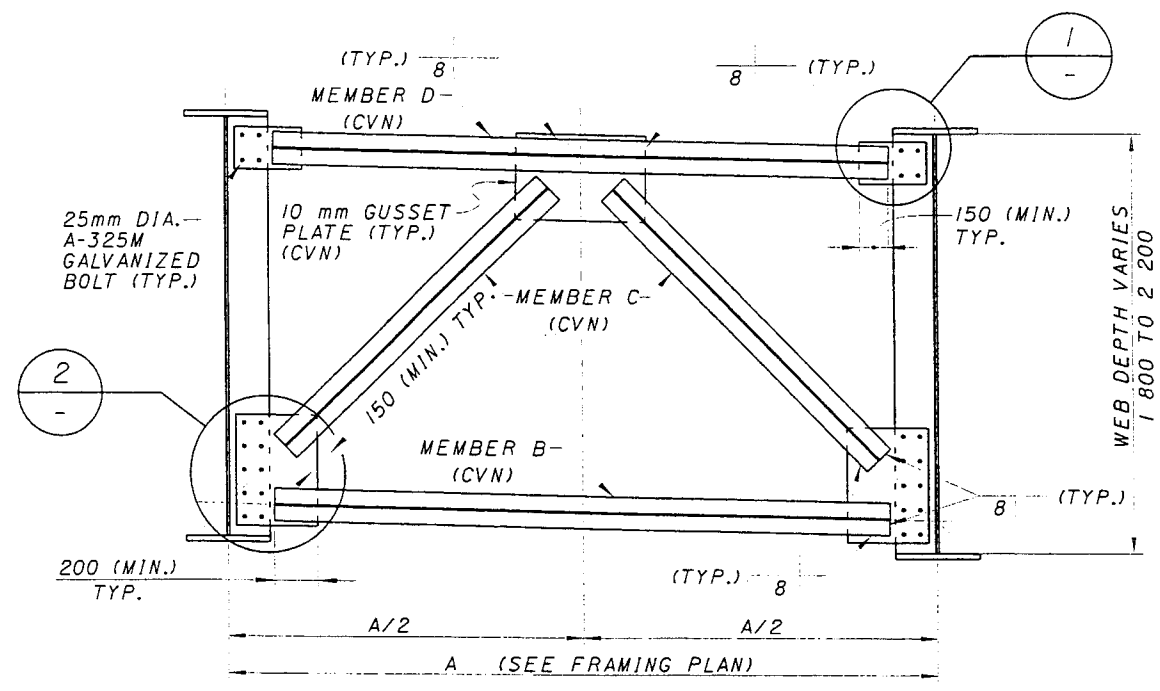
STRUCTURE FILE NUMBER
 3103412

REVISIONS
 DDE
 MJB
 CHECKED

PIER GIRDER PIER 4 - 12
 BRIDGE NO. 4

CITY OF CINCINNATI
 CONTRACT NO. 75X5753

102/180
 154
 232



INTERMEDIATE AND PIER CROSSFRAMES
TYPE CF-1 THRU CF-9 AND CF-11 THRU CF-13

CROSSFRAME TABLE			
TYPE	BOTT. STRUT (B)	DIAGONALS (C)	TOP STRUT (D)
CF-1 OR 1X	WT180x22.5	WT125x22.5	WT180x22.5
CF-2	WT180x32	WT125x22.5	WT180x22.5
CF-3	WT180x45.5	WT125x22.5	WT180x22.5
CF-4 OR 4X	WT180x32	WT180x32	WT180x32
CF-5 OR 5X	WT180x45.5	WT180x32	WT180x32
CF-6	WT180x50.5	WT180x32	WT180x32
CF-7 OR 7X	WT180x55	WT180x32	WT180x32
CF-8 OR 8X	WT180x61	WT180x32	WT180x32
CF-9 OR 9X	WT180x81	WT180x32	WT180x32
CF-10	WT180x22.5	WT180x22.5	MC310x60
CF-11	WT180x32	WT180x32	WT180x45.5
CF-12	WT180x32	WT180x32	WT180x50.5
CF-13	WT180x32	WT180x45.5	WT180x32
CF-14	WT180x32	WT180x32	WT180x55

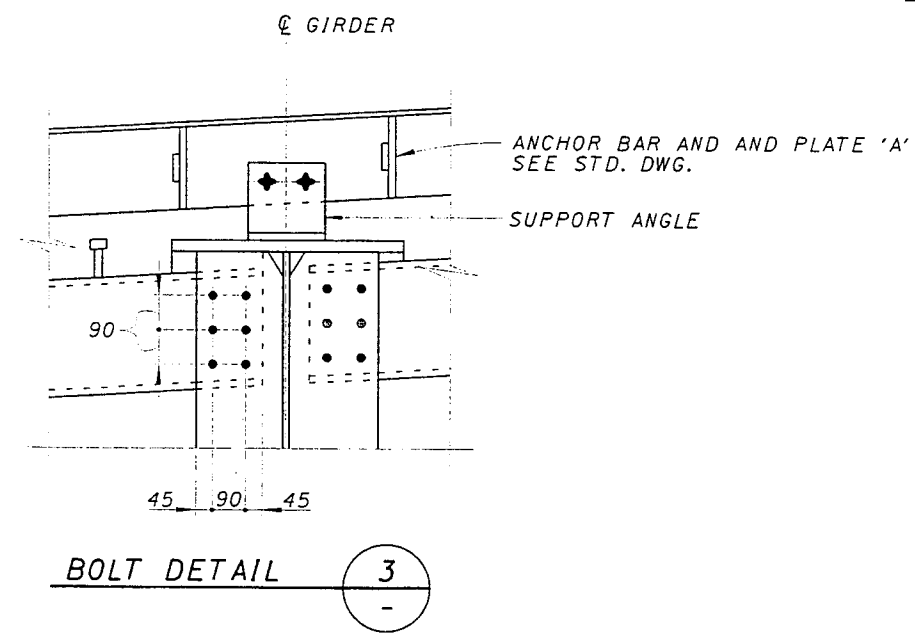
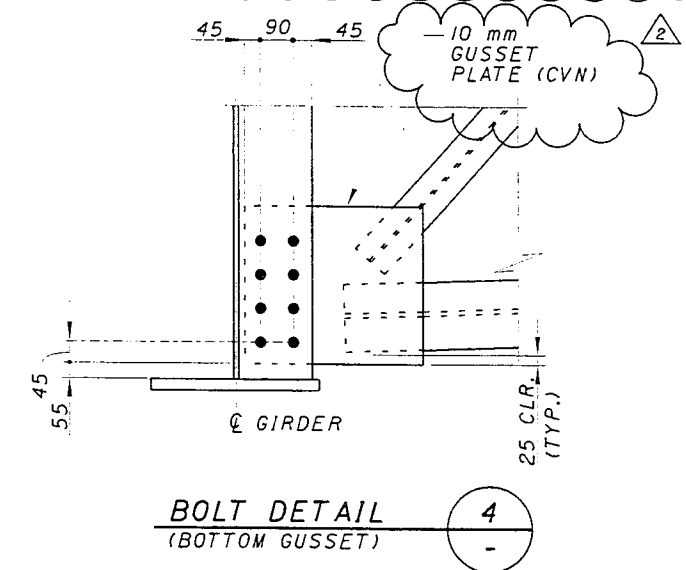
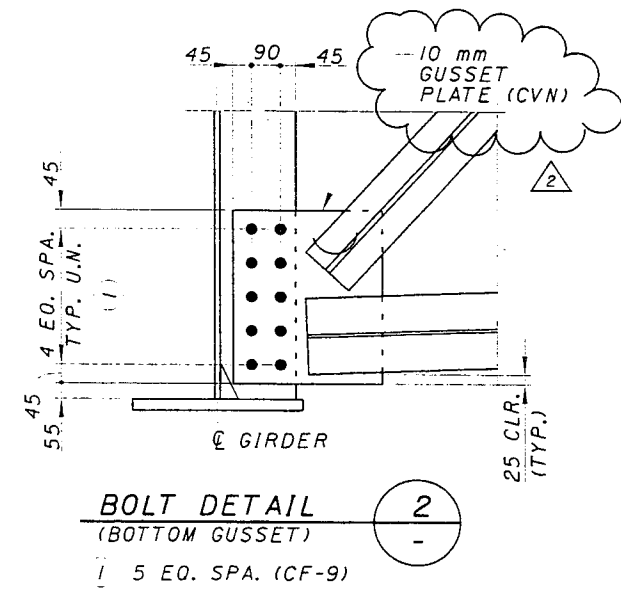
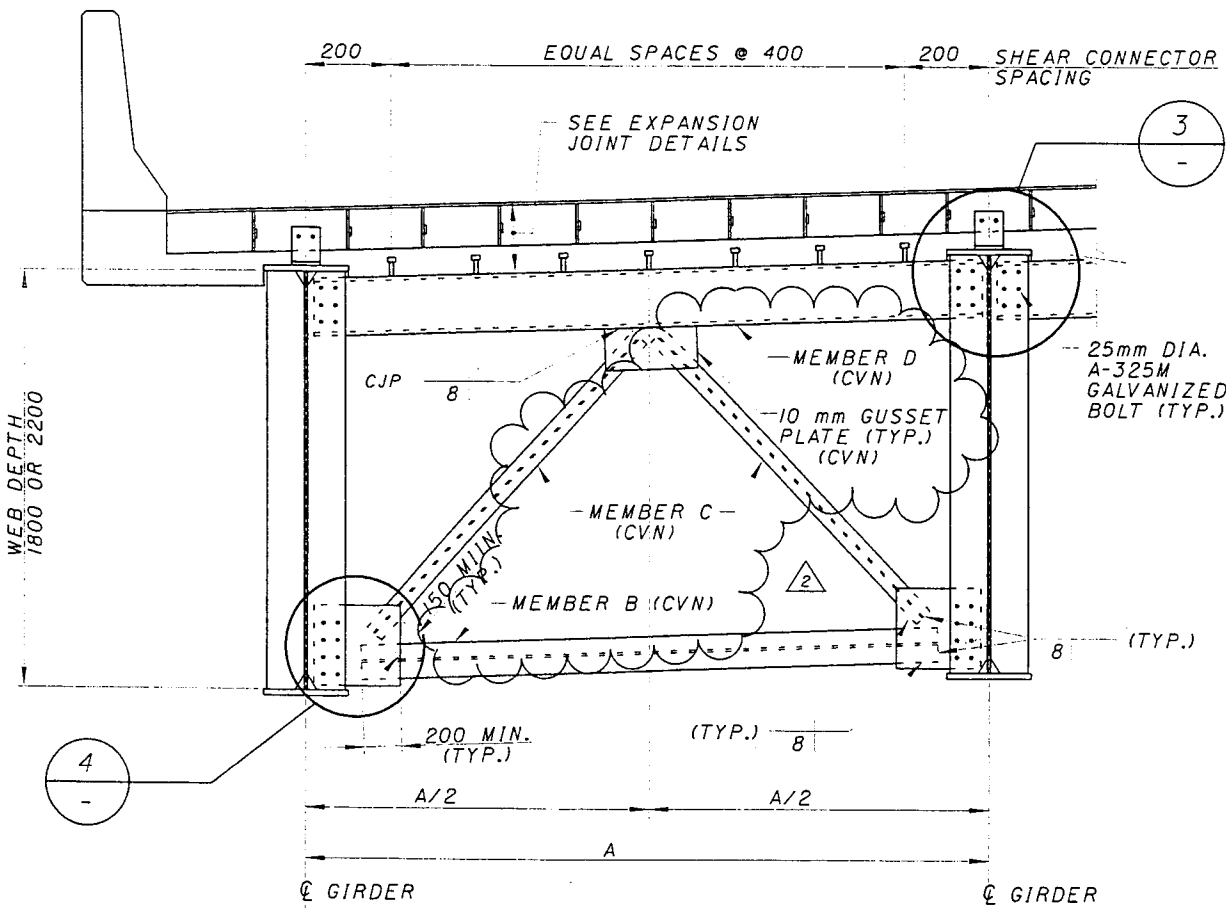
REVISION NO.	DESCRIPTION	DATE	BY
2	CROSS FRAME CHANGES	8-6-99	KDB

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720

DESIGNER: JJK

CHECKER: JJK

DATE: 3/03/12



END CROSSFRAME - TYPE CF-10

- NOTES:
- SEE SHEET 57/180 FOR STRUCTURAL STEEL NOTES.
 - WORK THIS SHEET WITH SHEETS 104/108 & 105/180

REVISION NO. 2
AUGUST 6, 1999

PLATE GIRDER DETAILS - 1
BRIDGE NO. 4

CITY OF CINCINNATI
CONTRACT No. 75X5753

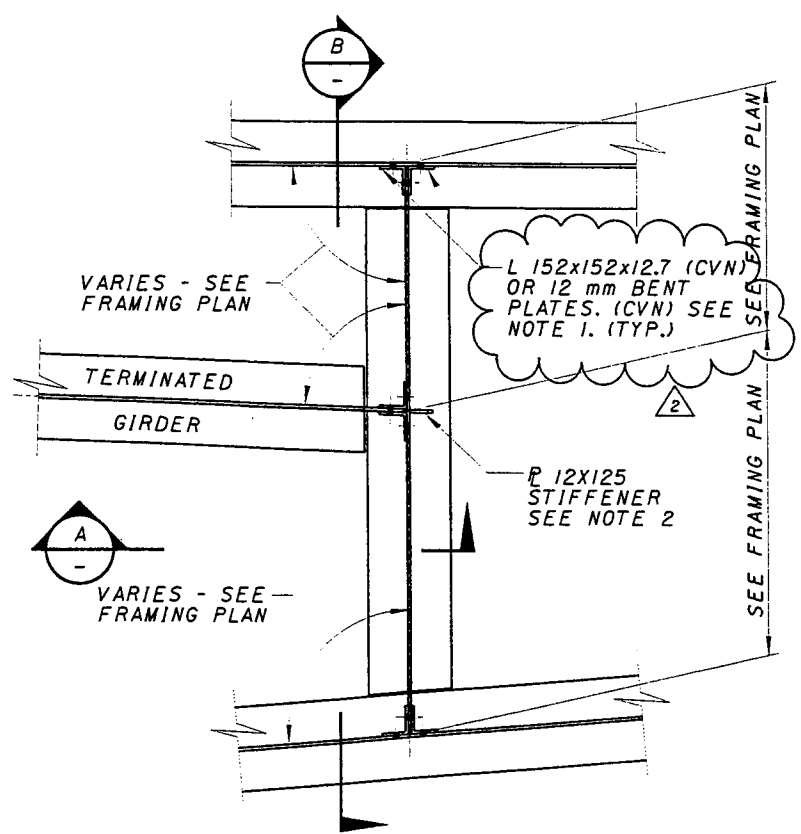
155
232

FRI Aug 20 13:29:28 1999

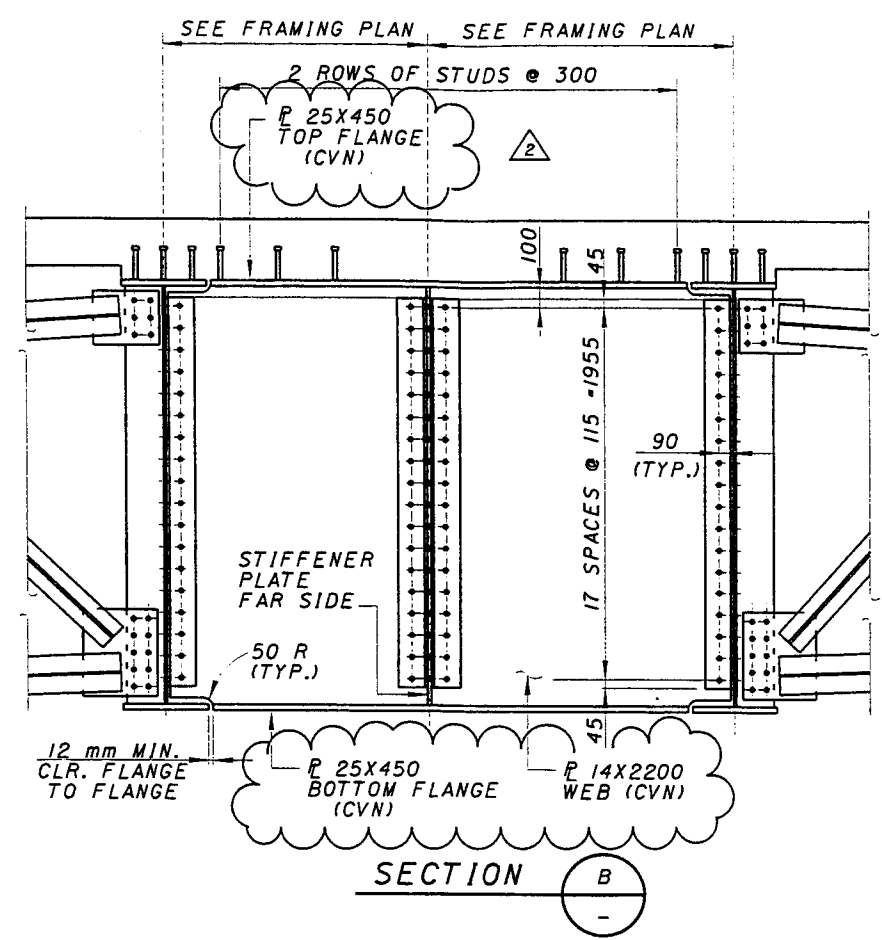
87-0099

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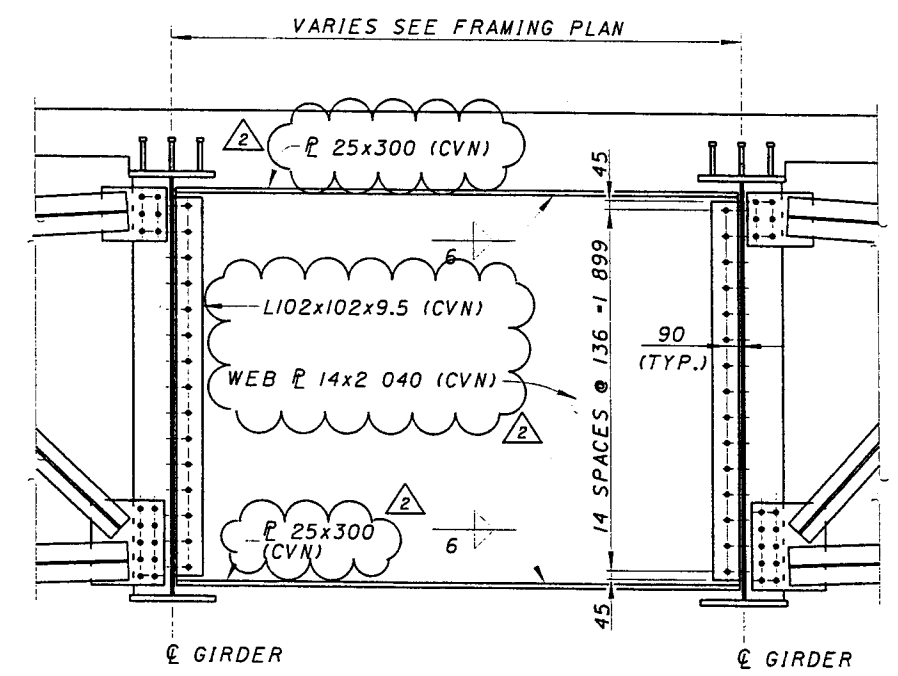
98-30-0101-1.dwg



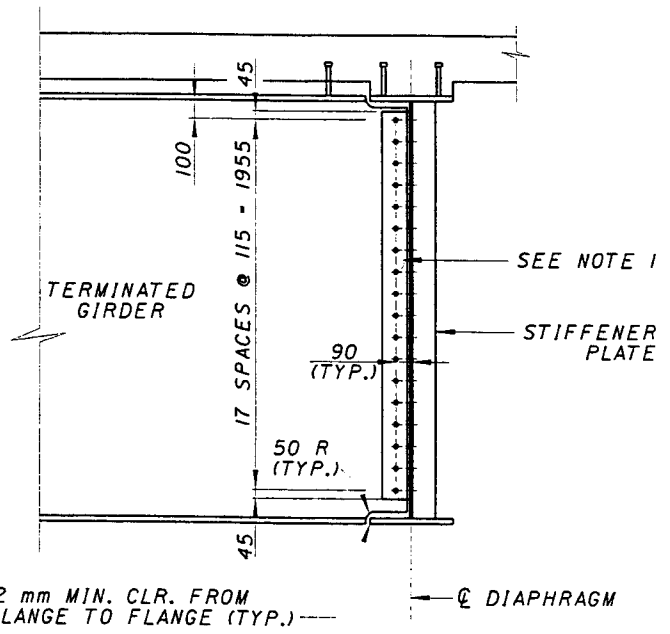
PLAN OF END DIAPHRAGMS ED-1 THRU ED-7



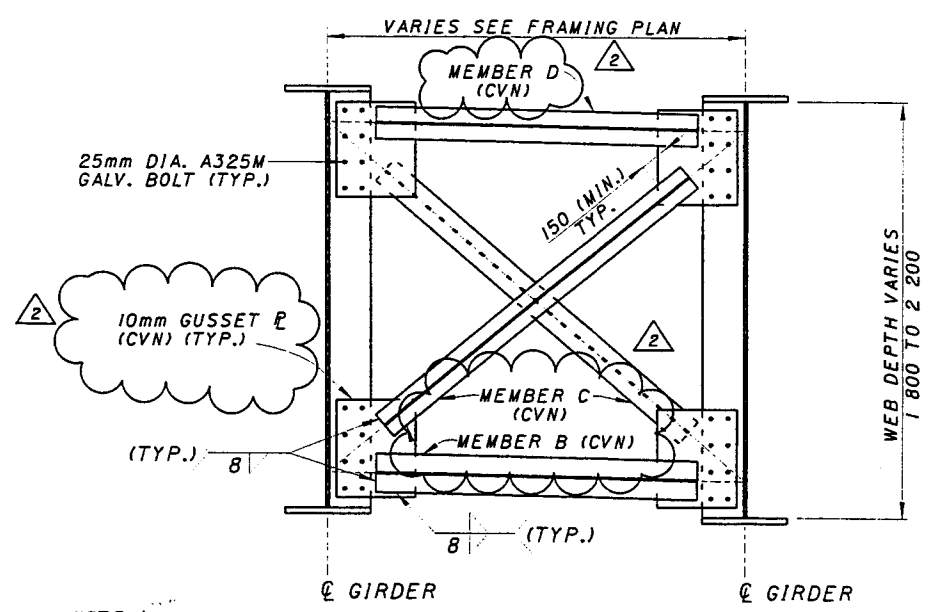
SECTION B



DIAPHRAGM D-1



SECTION A



NOTE: CONTRACTOR MAY SUBSTITUTE DIAPHRAGM D-1 FOR ANY OR ALL OF THE "X" CROSS FRAMES AT NO ADDED COST TO THE OWNER.

INTERMEDIATE AND PIER CROSSFRAMES TYPE CF-1X, CF-4X, CF-5X, CF-7X, CF-8X, AND CF-9X

NOTES:

- 12 mm BENT PLATES ARE USED AT CONNECTIONS THAT ARE NOT PERPENDICULAR. L152x152x12.7 ANGLES ARE USED AT CONNECTIONS THAT ARE PERPENDICULAR
- STIFFENER PLATE IS ON OPPOSITE SIDE FROM TERMINATED GIRDER. SEE TYPICAL STIFFENER PLATE DETAILS FOR WELD SIZES ON SHT. 105/180
- SEE SHEET 57/180 FOR STRUCTURAL STEEL NOTES.

REVISION NO.	DESCRIPTION	DATE	BY
REVISION 2	CROSSFRAME CHANGES	8-6-99	KDB
REVISION 1			

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

DATE
 8-6-99
 BY
 KDB

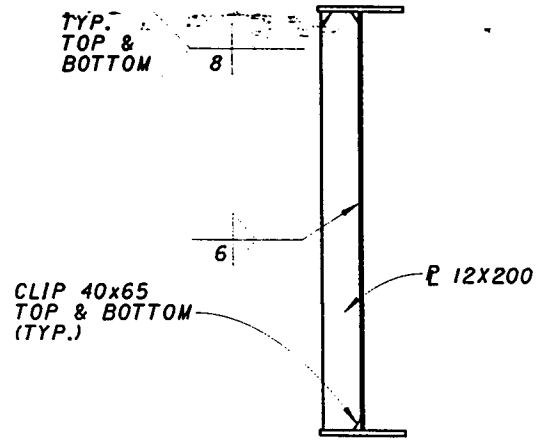
PLATE GIRDER DETAILS - 2
 BRIDGE NO. 4

CITY OF CINCINNATI
 CONTRACT No. 75X5753

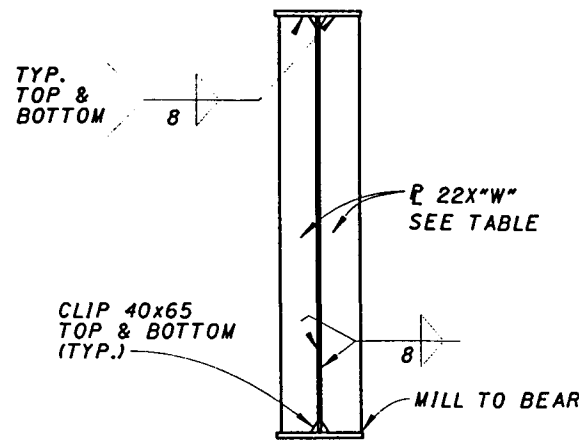
REVISION NO. 2
 AUGUST 6, 1999

104/180
 156
 232

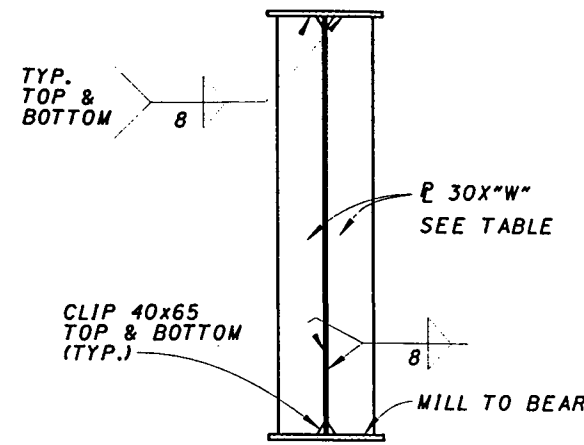
1/25/99
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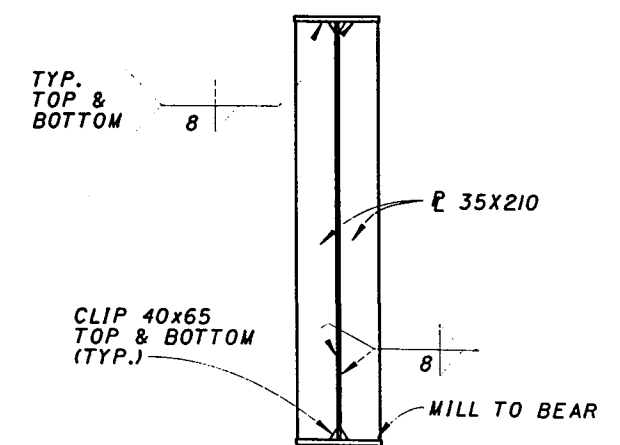
INTERMEDIATE STIFFENER/CONNECTION PLATE



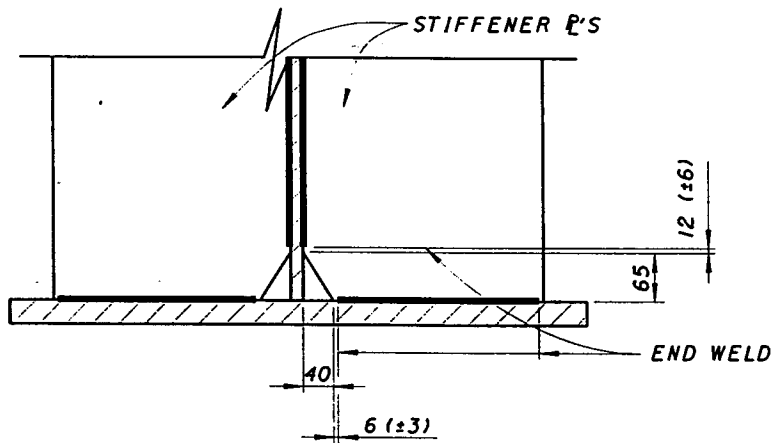
END BEARING STIFFENERS
 REAR ABUT., PIER 4-4, PIER 4-6,
 PIER 4-10, EXIST. PIER 5



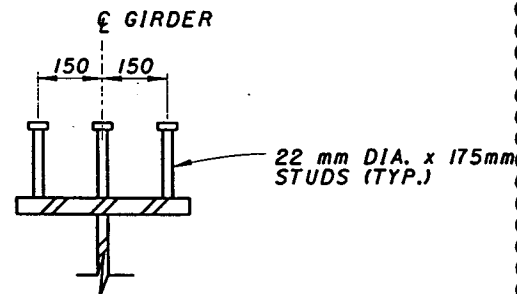
INTERIOR BEARING STIFFENERS
 PIER 4-1 THRU PIER 4-3, PIER 4-5,
 PIER 4-7 THRU PIER 4-9, PIER 4-11



**BEARING STIFFENERS
 PIER GIRDER 4 - 12**



STIFFENER WELD DETAIL



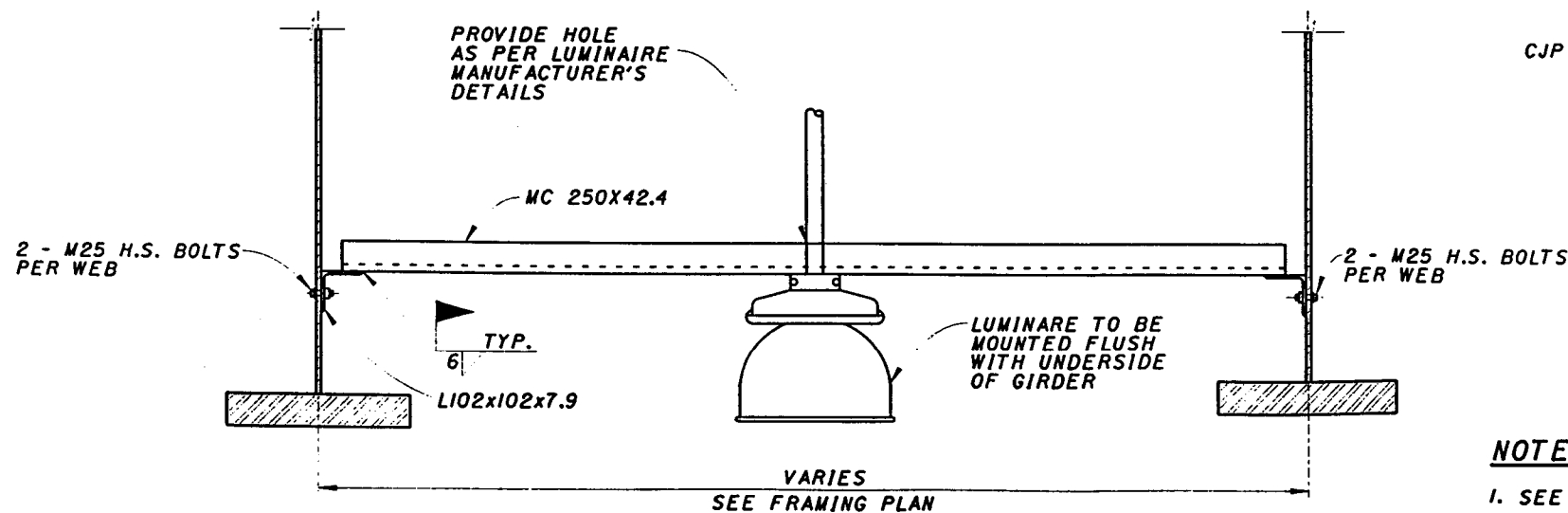
SHEAR CONNECTOR DETAIL

		BEARING STIFFENER WIDTHS "W" (mm)											
		GIRDER	1	2	3	4	5	6	7	8	9	10	11
UNIT 1	REAR ABUTMENT	190	190	190	190	190	-	-	-	-	-	-	-
	PIER 4-1	190	240	240	240	290	-	-	-	-	-	-	-
	PIER 4-2	240	240	240	290	290	-	-	-	-	-	-	-
	PIER 4-3	240	240	290	310	340	-	-	-	-	-	-	-
UNIT 2	PIER 4-4	210	210	210	210	210	-	-	-	-	-	-	-
	PIER 4-5	240	240	240	-	-	240	240	240	240	-	-	-
	PIER 4-6	210	210	-	-	-	210	210	210	210	-	-	-
UNIT 3	PIER 4-6	210	210	210	-	210	210	210	210	210	210	210	210
	PIER 4-7	290	290	290	290	290	290	290	290	290	290	290	290
	PIER 4-8	210	210	210	-	-	210	210	210	210	210	210	210
	PIER 4-9	210	210	-	-	-	210	210	210	210	210	210	210
UNIT 4	PIER 4-10	210	210	210	210	210	210	210	210	210	-	-	-
	PIER 4-11	290	290	290	290	290	290	290	290	290	-	-	-

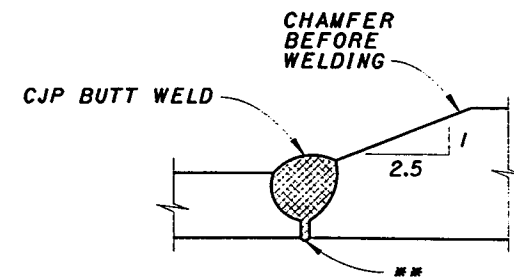
* RAMP C @ EXIST. PIER 5

* WELD CONFIGURATION SHOWN FOR ILLUSTRATION ONLY. ACTUAL CONFIGURATION TO BE DETERMINED BY CONTRACTOR.

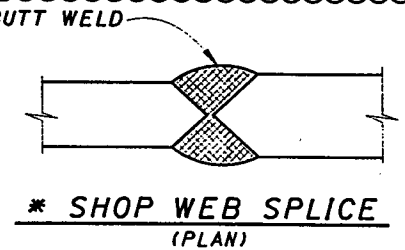
** WELD REINFORCEMENT SHALL BE REMOVED BY GRINDING IN THE LONGITUDINAL (LENGTHWISE) DIRECTION ONLY.



UNDERPASS LUMINAIRE SUPPORT DETAIL
 (SEE LIGHTING PLAN FOR LOCATIONS)

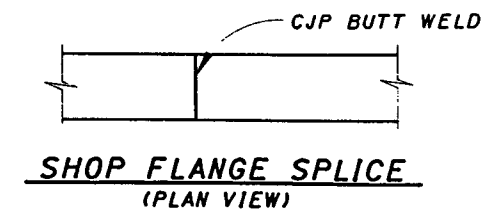


SHOP FLANGE SPLICE (ELEVATION)



SHOP WEB SPLICE (PLAN)

* WELD CONFIGURATION SHOWN FOR ILLUSTRATION ONLY. ACTUAL CONFIGURATION TO BE DETERMINED BY CONTRACTOR.



SHOP FLANGE SPLICE (PLAN VIEW)

NOTES:

1. SEE SHEET 57/180 FOR STRUCTURAL STEEL, NOTES.
2. SEE SHEETS 57 THRU 71/180 FOR FRAMING PLANS.

REVISION NO. 3
 SEPT 7, 1999

REVISION NO.	REVISION	DESCRIPTION	DATE	BY
3	3	BRG. STIFFENER WIDTHS REVISED	9-7-99	MCG

DESIGN AGENCY
PB
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

DATE REVIEWED
 DATE DRAWN
 DATE CHECKED

BRIDGE NO. 4
 PLATE GIRDER DETAILS - 3

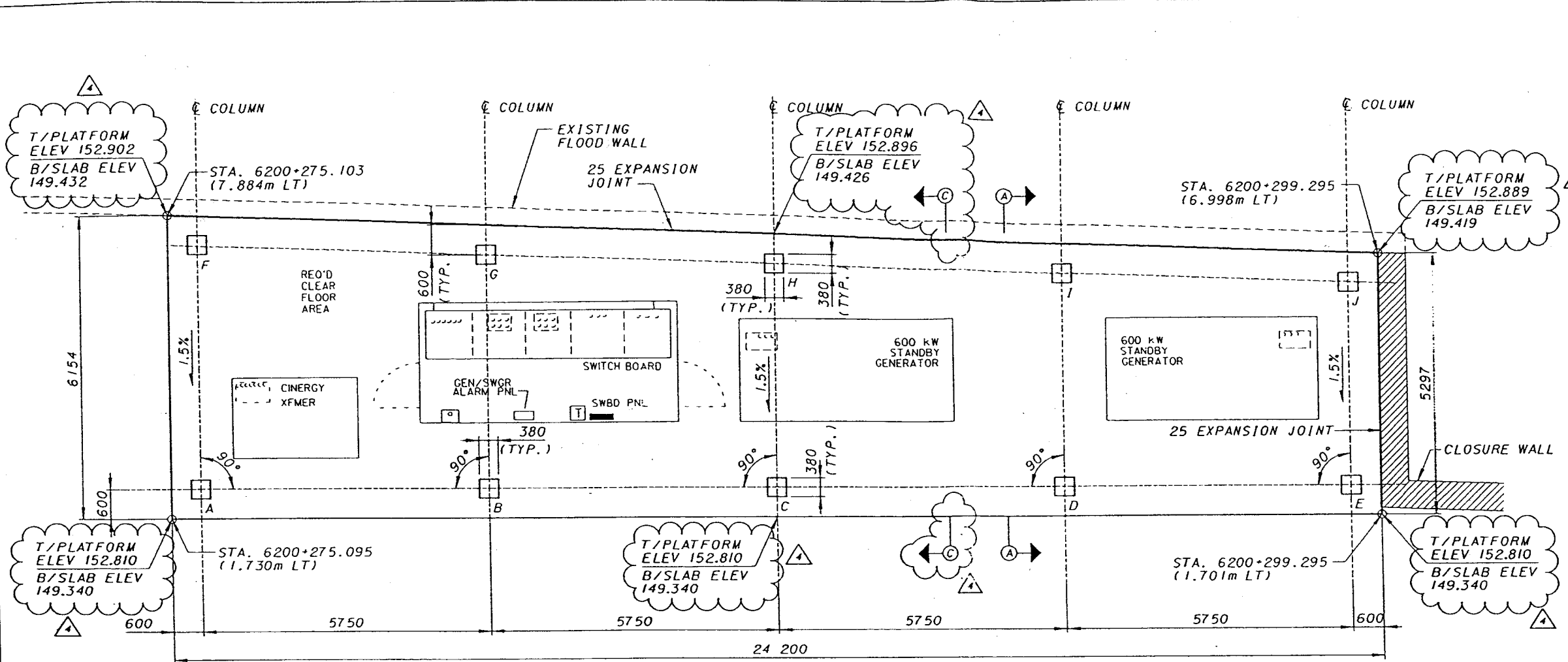
CITY OF CINCINNATI
 CONTRACT No. 75X5753

105/180
 157
 232

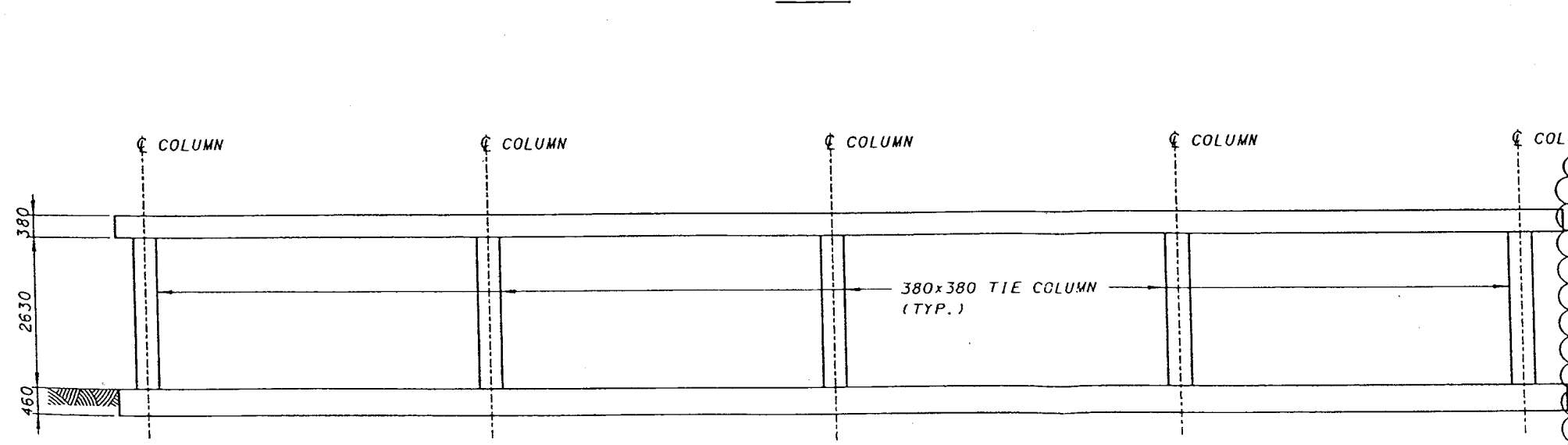
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02/14/00

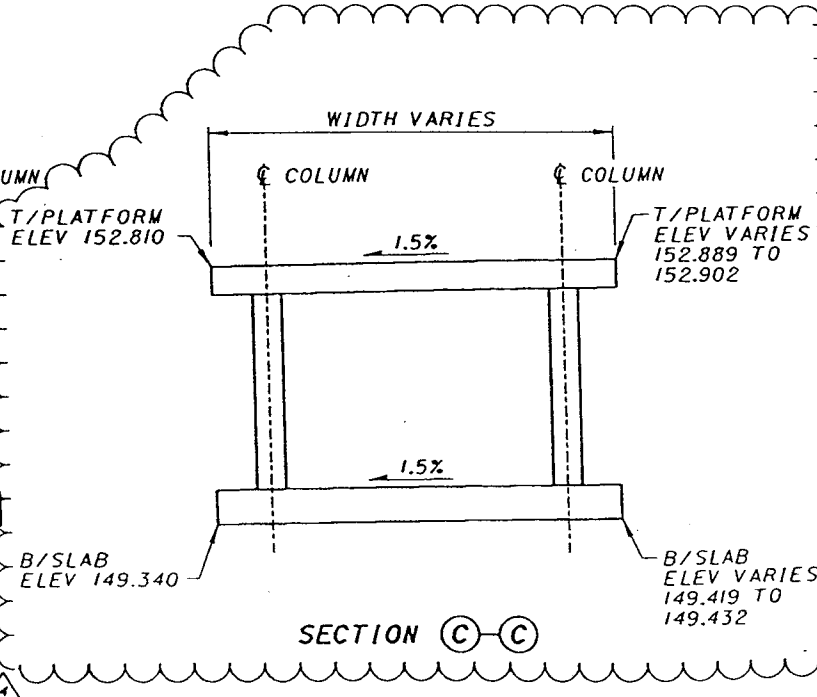
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H:\www\contracts\22a\br... \st22a01.dgn



PLAN



ELEVATION



SECTION C-C

COLUMN	STATION	OFFSET (m)
A	6200+275.696	2.33 LT
B	6200+281.446	2.323 LT
C	6200+287.196	2.316 LT
D	6200+292.946	2.309 LT
E	6200+298.696	2.302 LT
F	6200+275.702	7.262 LT
G	6200+281.452	7.051 LT
H	6200+287.201	6.841 LT
I	6200+292.951	6.630 LT
J	6200+298.701	6.419 LT

REVISION NO.	DESCRIPTION	DATE	BY
1	PLATFORM/SLAB ELEV.	2-14-00	JT

CONTINGENCY ALLOCATION	DESIGN AGENCY
PREPARED BY	ANASONS BRACKEHOFF, INC.
CHECKED BY	318 ELM STREET, SUITE 2300
TON	CINCINNATI, OH 45202-2720

EQUIPMENT PLATFORM STRUCTURE - WEST END

CITY OF CINCINNATI
CONTRACT NO. 75X5753

1/2

158
285

RFP-22A-22
CA-C22A-004
FEBRUARY 14, 2000

G:\CADD\PRF\HP4VB\04gdr0705L.mxd
 9/3/99
 F:\1\Rep 3 15:23:51 1999

FIELD SPLICE NO. 1					
	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5
TYPE	A	A	A	A	A
PLATE A	570 x 400 x 10	570 x 400 x 10	570 x 400 x 10	570 x 400 x 10	570 x 400 x 10
PLATE B	570 x 180 x 12	570 x 180 x 12	570 x 180 x 12	570 x 180 x 12	570 x 180 x 12
PLATE C	280 x 400 x 3	280 x 400 x 3	280 x 400 x 3	280 x 400 x 3	280 x 400 x 3
PLATE D	570 x 400 x 10	570 x 400 x 10	570 x 400 x 10	570 x 400 x 10	570 x 400 x 10
PLATE E	570 x 180 x 12	570 x 180 x 12	570 x 180 x 12	570 x 180 x 12	570 x 180 x 12
PLATE F	280 x 400 x 8	280 x 400 x 8	280 x 400 x 8	280 x 400 x 13	280 x 400 x 13
PLATE G	1600 x 570 x 14	1600 x 570 x 14	1600 x 570 x 14	1600 x 570 x 14	1600 x 570 x 14
PLATE H	1600 x 280 x 1	1600 x 280 x 1	1600 x 280 x 1	1600 x 280 x 1	1600 x 280 x 2
1	3 e 90	3 e 90	3 e 90	3 e 90	3 e 90
2	2 e 80	2 e 80	2 e 80	2 e 80	2 e 80
3	3 e 90	3 e 90	3 e 90	3 e 90	3 e 90
4	2 e 80	2 e 80	2 e 80	2 e 80	2 e 80
5	3 e 90	3 e 90	3 e 90	3 e 90	3 e 90

FIELD SPLICE NO. 2					
	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5
TYPE	A	A	A	A	A
PLATE A	930 x 450 x 14	930 x 450 x 14	930 x 450 x 14	930 x 500 x 14	1110 x 500 x 16
PLATE B	930 x 205 x 16	930 x 205 x 16	930 x 205 x 16	930 x 230 x 16	1110 x 230 x 18
PLATE C	460 x 450 x 5	N/A	N/A	460 x 500 x 5	N/A
PLATE D	930 x 450 x 14	930 x 450 x 14	930 x 450 x 14	930 x 500 x 14	1290 x 500 x 20
PLATE E	930 x 205 x 16	930 x 205 x 16	930 x 205 x 16	930 x 230 x 16	1290 x 230 x 22
PLATE F	N/A	N/A	N/A	460 x 500 x 5	640 x 500 x 15
PLATE G	1600 x 390 x 14	1600 x 390 x 14	1600 x 390 x 14	1600 x 390 x 14	1600 x 390 x 14
PLATE H	N/A	N/A	N/A	N/A	1600 x 190 x 1
1	5 e 90	5 e 90	5 e 90	5 e 90	6 e 90
2	2 e 105	2 e 105	2 e 105	2 e 130	2 e 130
3	5 e 90	5 e 90	5 e 90	5 e 90	7 e 90
4	2 e 105	2 e 105	2 e 105	2 e 130	2 e 130
5	2 e 90	2 e 90	2 e 90	2 e 90	2 e 90

FIELD SPLICE NO. 3					
	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5
TYPE	B	B	B	B	B
PLATE A	930 x 450 x 14	930 x 450 x 14	930 x 450 x 14	1110 x 500 x 14	1110 x 500 x 14
PLATE B	930 x 205 x 16	930 x 205 x 16	930 x 205 x 16	1110 x 230 x 16	1110 x 230 x 16
PLATE C	460 x 450 x 5	N/A	N/A	N/A	550 x 500 x 5
PLATE D	930 x 450 x 14	930 x 450 x 14	930 x 450 x 14	1110 x 500 x 14	1470 x 500 x 24
PLATE E	930 x 205 x 16	930 x 205 x 16	930 x 205 x 16	1110 x 230 x 16	1470 x 230 x 26
PLATE F	460 x 450 x 10	460 x 450 x 5	460 x 450 x 5	550 x 500 x 15	N/A
PLATE G	1600 x 390 x 14	1600 x 390 x 14	1600 x 390 x 14	1600 x 390 x 14	1600 x 390 x 14
PLATE H	1600 x 190 x 1	1600 x 190 x 1	1600 x 190 x 1	1600 x 190 x 1	1600 x 190 x 1
1	5 e 90	5 e 90	5 e 90	6 e 90	6 e 90
2	2 e 105	2 e 105	2 e 105	2 e 130	2 e 130
3	5 e 90	5 e 90	5 e 90	6 e 90	8 e 90
4	2 e 105	2 e 105	2 e 105	2 e 130	2 e 130
5	2 e 90	2 e 90	2 e 90	2 e 90	2 e 90

FIELD SPLICE NO. 4					
	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5
TYPE	C	C	C	C	C
PLATE A	930 x 450 x 14	750 x 450 x 14	750 x 450 x 14	750 x 450 x 14	1110 x 500 x 18
PLATE B	930 x 205 x 16	750 x 205 x 16	750 x 205 x 16	750 x 205 x 16	1110 x 230 x 20
PLATE C	460 x 450 x 5	N/A	N/A	370 x 450 x 5	N/A
PLATE D	930 x 450 x 14	750 x 450 x 14	750 x 450 x 14	930 x 500 x 14	1290 x 500 x 18
PLATE E	930 x 205 x 16	750 x 205 x 16	750 x 205 x 16	930 x 230 x 16	1290 x 230 x 20
PLATE F	460 x 450 x 10	370 x 450 x 10	370 x 450 x 10	460 x 500 x 15	640 x 500 x 10
PLATE G	2000 x 390 x 14	2000 x 390 x 14	2000 x 390 x 14	2000 x 390 x 14	2000 x 390 x 14
PLATE H	2000 x 190 x 1	2000 x 190 x 1	2000 x 190 x 1	2000 x 190 x 1	2000 x 190 x 1
1	5 e 90	4 e 90	4 e 90	4 e 90	6 e 90
2	2 e 105	2 e 105	2 e 105	2 e 105	2 e 130
3	5 e 90	4 e 90	4 e 90	5 e 90	7 e 90
4	2 e 105	2 e 105	2 e 105	2 e 130	2 e 130
5	2 e 90	2 e 90	2 e 90	2 e 90	2 e 90

FIELD SPLICE NO. 5					
	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5
TYPE	C	C	C	C	C
PLATE A	930 x 450 x 16	750 x 450 x 14	750 x 450 x 14	750 x 450 x 14	1110 x 500 x 18
PLATE B	930 x 205 x 18	750 x 205 x 16	750 x 205 x 16	750 x 205 x 16	1110 x 230 x 20
PLATE C	N/A	370 x 450 x 5	370 x 450 x 5	370 x 450 x 5	N/A
PLATE D	930 x 450 x 14	750 x 450 x 14	1110 x 450 x 14	1110 x 500 x 14	1290 x 500 x 20
PLATE E	930 x 205 x 16	750 x 205 x 16	1110 x 205 x 16	1110 x 230 x 16	1290 x 230 x 22
PLATE F	460 x 450 x 5	370 x 450 x 15	550 x 450 x 15	550 x 500 x 20	640 x 500 x 10
PLATE G	2000 x 390 x 14	2000 x 390 x 14	2000 x 390 x 14	2000 x 390 x 14	2000 x 390 x 14
PLATE H	2000 x 190 x 1	2000 x 190 x 1	2000 x 190 x 1	2000 x 190 x 1	2000 x 190 x 1
1	5 e 90	4 e 90	4 e 90	4 e 90	6 e 90
2	2 e 105	2 e 105	2 e 105	2 e 105	2 e 130
3	5 e 90	4 e 90	6 e 90	6 e 90	7 e 90
4	2 e 105	2 e 105	2 e 105	2 e 130	2 e 130
5	2 e 90	2 e 90	2 e 90	2 e 90	2 e 90

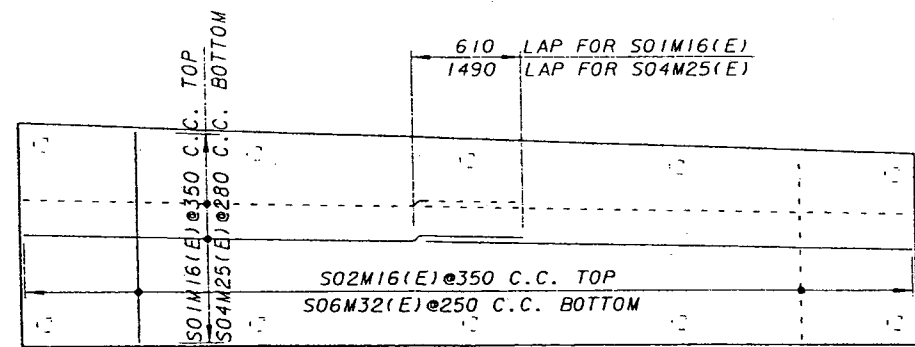
FIELD SPLICE NO. 6					
	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5
TYPE	C	C	C	C	C
PLATE A	750 x 450 x 12	750 x 450 x 12	1110 x 500 x 14	1110 x 500 x 14	1110 x 500 x 14
PLATE B	750 x 205 x 14	750 x 205 x 14	1110 x 230 x 16	1110 x 230 x 16	1110 x 230 x 16
PLATE C	370 x 450 x 5	370 x 450 x 5	N/A	N/A	N/A
PLATE D	930 x 500 x 14	930 x 500 x 14	750 x 550 x 14	1110 x 650 x 20	1470 x 700 x 24
PLATE E	930 x 230 x 16	930 x 230 x 16	750 x 255 x 16	1110 x 305 x 22	1470 x 330 x 26
PLATE F	460 x 500 x 5	460 x 500 x 10	370 x 550 x 10	550 x 650 x 10	N/A
PLATE G	2000 x 390 x 14	2000 x 390 x 14	2020 x 390 x 14	2000 x 390 x 14	2000 x 390 x 14
PLATE H	2000 x 190 x 1	2000 x 190 x 1	2000 x 190 x 1	2000 x 190 x 1	N/A
1	4 e 90	4 e 90	6 e 90	6 e 90	6 e 90
2	2 e 105	2 e 105	2 e 130	2 e 130	2 e 130
3	5 e 90	5 e 90	4 e 90	6 e 90	8 e 90
4	2 e 130	2 e 130	3 e 80	3 e 100	3 e 115
5	2 e 90	2 e 90	2 e 90	2 e 90	2 e 90

REVISION NO.	3	DESCRIPTION	SPICE CHANGES	DATE	BY
REVISION	3	DRAWN	DATE	9-7-99	LAE
MJB	DDE	CHECKED	REVIEWED	DESIGN AGENCY PARSONS BRINCKERHOFF, INC. 110 ELM STREET SUITE 2500 CINCINNATI, OH 45202-2770	
CITY OF CINCINNATI CONTRACT No. 75X5753			PLATE GIRDER SPLICES - 2 BRIDGE NO. 4		
107/180			REVISION NO. 3 SEPT 7, 1999		
159			232		

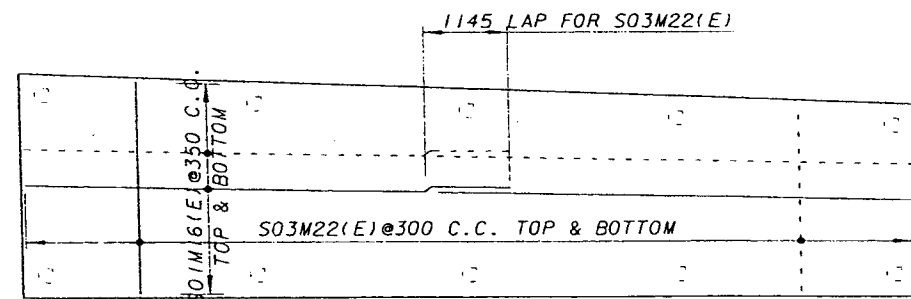
Thu Aug 26 10:34:59 1999

08/26/99

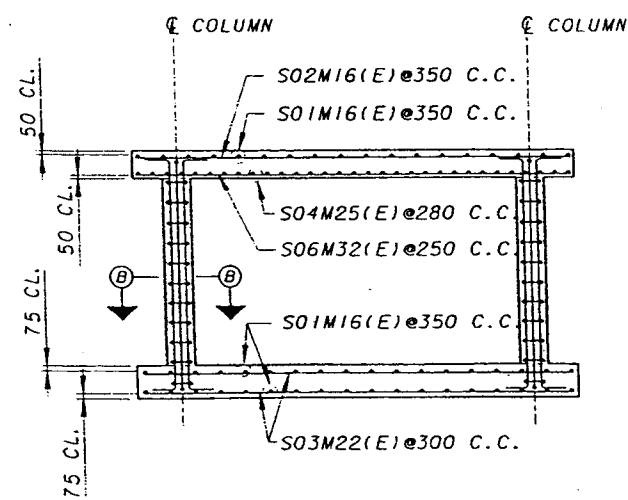
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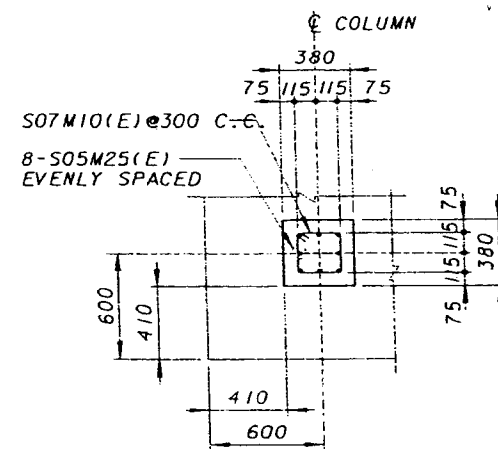
TOP SLAB PLAN



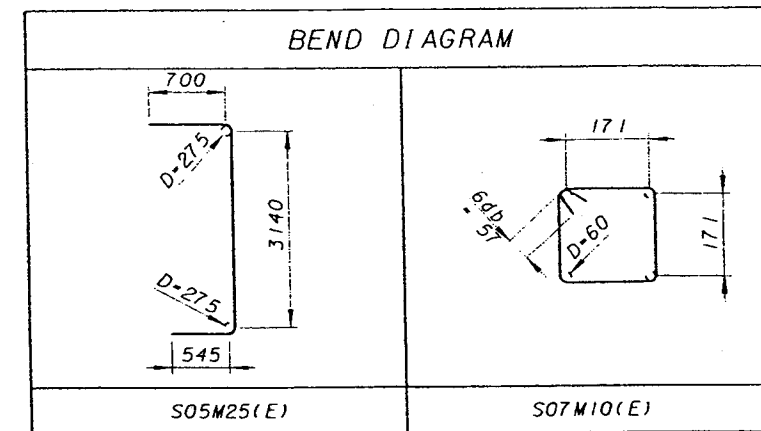
FOOTING PLAN



SECTION A-A



SECTION B-B



BILL OF MATERIAL					
DESIGNATION	SHAPE	SIZE	NUMBER	LENGTH(mm)	WEIGHT(kg)
S01M16(E)	—	*16M	54	12 360	1036
S02M16(E)	—	*16M	1 SERIES OF 70	5200 THRU 6030 (SEE NOTE 5)	610
S03M22(E)	—	*22M	TWO TIME 1 SERIES OF 81	5200 THRU 6000 (SEE NOTE 6)	2760
S04M25(E)	—	*25M	23	12 800	1170
S05M25(E)	U	*25M	80	4 670	1484
S06M32(E)	—	*32M	1 SERIES OF 97	5200 THRU 5970 (SEE NOTE 7)	3469
S07M10(E)	□	*10M	110	1 310	81
TOTAL WEIGHT (kg)					10610

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. (E) DESIGNATE EPOXY COATED REINFORCEMENT.
3. CONCRETE SHALL BE HIGH PERFORMANCE CONCRETE WITH MINIMUM 28-DAY COMPRESSIVE STRENGTH (f_c') OF 28 MPa.
4. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615M OR A617M, GRADE 400 WITH MINIMUM YIELD STRENGTH OF 400 MPa.
5. VARIES BY 12 INCREMENTS.
6. VARIES BY 10 INCREMENTS.
7. VARIES BY 8 INCREMENTS.

FIELD SPLICE NO. 7					
	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5
TYPE	C	C	C	C	C
PLATE A	750 x 450 x 14	750 x 450 x 14	930 x 450 x 14	930 x 450 x 14	1110 x 450 x 14
PLATE B	750 x 205 x 16	750 x 205 x 16	930 x 205 x 16	930 x 205 x 16	1110 x 205 x 16
PLATE C	N/A	N/A	N/A	N/A	N/A
PLATE D	750 x 450 x 14	750 x 450 x 14	930 x 450 x 14	930 x 550 x 18	1290 x 600 x 24
PLATE E	750 x 205 x 16	750 x 205 x 16	930 x 205 x 16	930 x 255 x 20	1290 x 280 x 26
PLATE F	370 x 450 x 5	370 x 450 x 5	N/A	N/A	N/A
PLATE G	2000 x 570 x 14	2000 x 570 x 14	2000 x 570 x 14	2000 x 570 x 14	2000 x 750 x 14
PLATE H	N/A	N/A	N/A	2000 x 285 x 1	N/A
1	4 @ 90	4 @ 90	5 @ 90	5 @ 90	6 @ 90
2	2 @ 105	2 @ 105	2 @ 105	2 @ 105	2 @ 105
3	4 @ 90	4 @ 90	5 @ 90	5 @ 90	7 @ 90
4	2 @ 105	2 @ 105	2 @ 105	3 @ 80	3 @ 90
5	3 @ 90	3 @ 90	3 @ 90	3 @ 90	4 @ 90

FIELD SPLICE NO. 8									
	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5	GIRDER 6	GIRDER 7	GIRDER 8	GIRDER 9
TYPE	C	C	C			C	C	C	C
PLATE A	750x450x12	750x450x12	750x450x12			750x450x12	750x450x12	750x450x12	750x450x12
PLATE B	750x205x14	750x205x14	750x205x14			750x205x14	750x205x14	750x205x14	750x205x14
PLATE C	370x450x5	370x450x5	370x450x5			370x450x5	370x450x5	370x450x5	370x450x5
PLATE D	750x450x12	750x450x12	750x450x12			750x450x12	750x450x12	750x450x12	750x450x12
PLATE E	750x205x14	750x205x14	750x205x14			750x205x14	750x205x14	750x205x14	750x205x14
PLATE F	370x450x10	370x450x10	370x450x25			370x450x10	370x450x10	370x450x10	370x450x10
PLATE G	2000x390x14	2000x390x14	2000x390x14			2000x390x14	2000x390x14	2000x390x14	2000x390x14
PLATE H	N/A	N/A	N/A			N/A	N/A	N/A	N/A
1	4@90	4@90	4@90			4@90	4@90	4@90	4@90
2	2@105	2@105	2@105			2@105	2@105	2@105	2@105
3	4@90	4@90	4@90			4@90	4@90	4@90	4@90
4	2@105	2@105	2@105			2@105	2@105	2@105	2@105
5	2@90	2@90	2@90			2@90	2@90	2@90	2@90

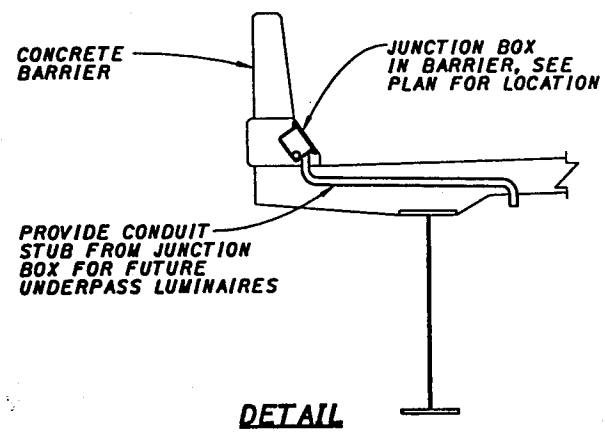
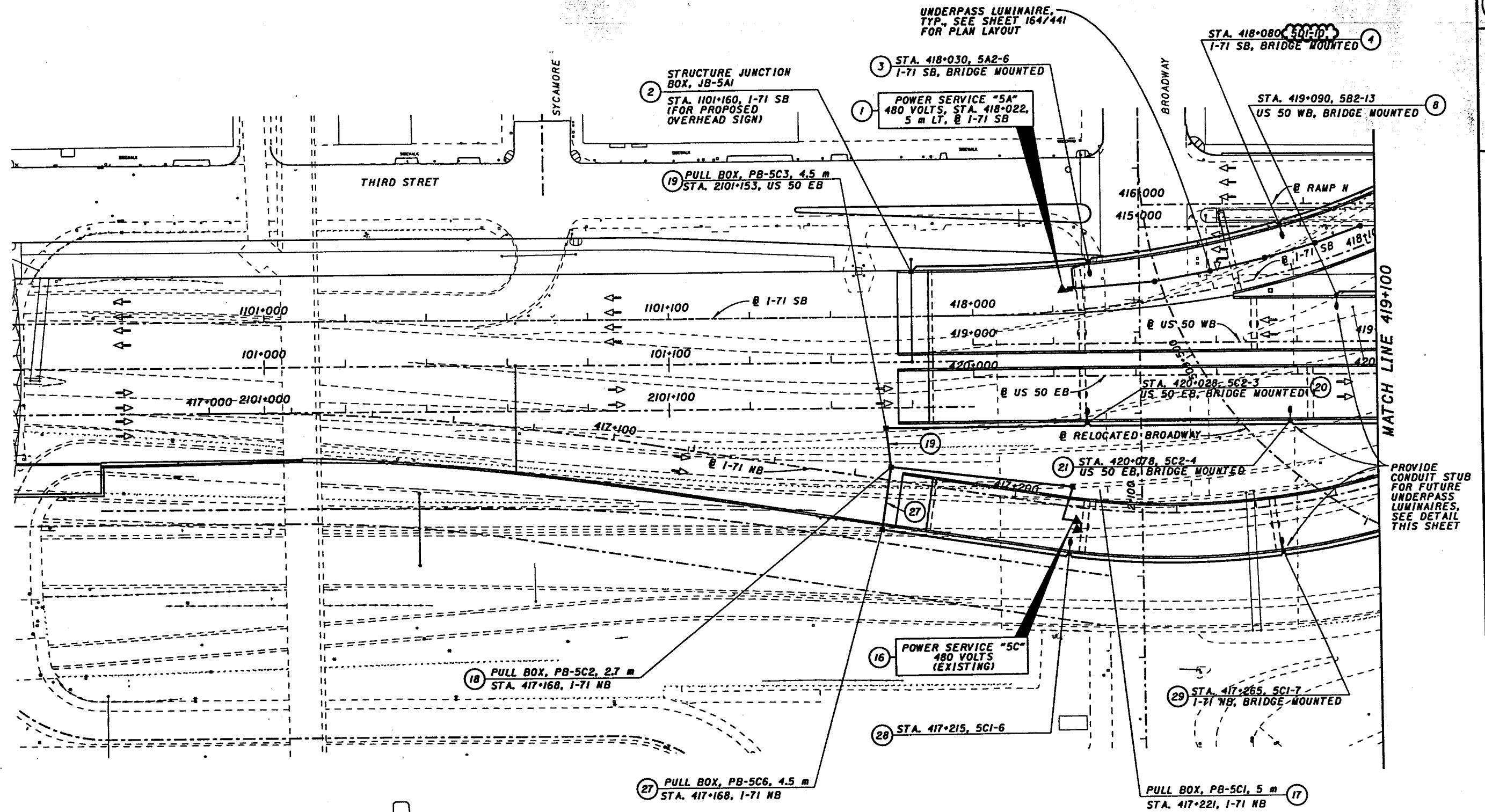
FIELD SPLICE NO. 9									
	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5	GIRDER 6	GIRDER 7	GIRDER 8	GIRDER 9
TYPE	C	C				C	C	C	C
PLATE A	750x450x12	750x450x12				750x450x12	750x450x12	750x450x12	750x450x12
PLATE B	750x205x14	750x205x14				750x205x14	750x205x14	750x205x14	750x205x14
PLATE C	370x450x5	370x450x5				370x450x5	370x450x5	370x450x5	370x450x5
PLATE D	750x450x12	750x450x12				750x450x12	750x450x12	750x450x12	750x450x12
PLATE E	750x205x14	750x205x14				750x205x14	750x205x14	750x205x14	750x205x14
PLATE F	370x450x10	370x450x10				370x450x10	370x450x10	370x450x10	370x450x10
PLATE G	2000x390x14	2000x390x14				2000x390x14	2000x390x14	2000x390x14	2000x390x14
PLATE H	N/A	N/A				N/A	N/A	N/A	N/A
1	4@90	4@90				4@90	4@90	4@90	4@90
2	2@105	2@105				2@105	2@105	2@105	2@105
3	4@90	4@90				4@90	4@90	4@90	4@90
4	2@105	2@105				2@105	2@105	2@105	2@105
5	2@90	2@90				2@90	2@90	2@90	2@90

REVISION NO.	2	DESCRIPTION	SPLICE CHANGES	DATE	BY
REVISION	2			8-6-99	LAE
DESIGNED	MJB	CHECKED			
DRAWN	DDE	REVIEWED			
		DATE			
		3/03/12			

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

PLATE GIRDER SPLICES - 3
 BRIDGE NO. 4

CITY OF CINCINNATI
 CONTRACT No. 75X5753



LIGHTING PLAN

CITY OF CINCINNATI
CONTRACT No. 75X5753

REVISION	DATE
0007/CITY OF CINCINNATI RECIRCULATING	12-22-99

160
441

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 1/23/99
 F:\1\p 3 15:06:15 1999

FIELD SPLICE NO. 10

	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5	GIRDER 6	GIRDER 7	GIRDER 8	GIRDER 9	GIRDER 10	GIRDER 11
TYPE	C	C	C		C	C	C	C	C	C	C
PLATE A	1110x450x16	1110x450x16	1110x450x16		1470x500x18	930x450x14	930x450x14	930x450x14	930x450x14	930x450x14	930x450x14
PLATE B	1110x205x18	1110x205x18	1110x205x18		1470x230x20	930x205x16	930x205x16	930x205x16	930x205x16	930x205x16	930x205x16
PLATE C	550x450x5	550x450x5	550x450x5		730x500x10	N/A	N/A	N/A	N/A	N/A	N/A
PLATE D	1470x500x24	1470x500x24	1470x500x24		1290x500x24	1290x500x16	1290x500x16	1290x500x16	1290x500x16	1290x500x16	1290x500x16
PLATE E	1470x230x26	1470x230x26	1470x230x26		1290x280x26	1290x230x18	1290x230x18	1290x230x18	1290x230x18	1290x230x18	1290x230x18
PLATE F	N/A	N/A	N/A		550x600x10	640x500x15	640x500x15	640x500x15	640x500x15	640x500x15	640x500x15
PLATE G	2000x750x14	2000x750x14	2000x750x14		2000x750x14	2000x750x16	2000x750x16	2000x750x16	2000x750x16	2000x750x16	2000x750x16
PLATE H	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	6e90	6e90	6e90		8e90	5e90	5e90	5e90	5e90	5e90	5e90
2	2e105	2e105	2e105		2e130	2e105	2e105	2e105	2e105	2e105	2e105
3	8e90	8e90	8e90		7e90	7e90	7e90	7e90	7e90	7e90	7e90
4	2e130	2e130	2e130		3e90	2e130	2e130	2e130	2e130	2e130	2e130
5	4e90	4e90	4e90		4e90	4e90	4e90	4e90	4e90	4e90	4e90

FIELD SPLICE NO. 11

	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5	GIRDER 6	GIRDER 7	GIRDER 8	GIRDER 9	GIRDER 10	GIRDER 11
TYPE	C	C	C	C	C	C	C	C	C	C	C
PLATE A	1110x450x16	1110x450x16	1110x450x16	750x450x12	1470x500x20	930x450x14	930x450x14	930x450x14	930x450x14	930x450x14	930x450x14
PLATE B	1110x205x18	1110x205x18	1110x205x18	750x205x14	1470x230x22	930x205x16	930x205x16	930x205x16	930x205x16	930x205x16	930x205x16
PLATE C	N/A	N/A	N/A	370x450x10	730x500x10	460x450x5	460x450x5	460x450x5	460x450x5	460x450x5	460x450x5
PLATE D	1110x550x22	1110x550x22	1110x550x22	750x450x12	1290x600x24	1470x500x20	1470x500x20	1470x500x20	1470x500x20	1470x500x20	1470x500x20
PLATE E	1110x255x24	1110x255x24	1110x255x24	750x205x14	1290x280x26	1470x230x22	1470x230x22	1470x230x22	1470x230x22	1470x230x22	1470x230x22
PLATE F	N/A	N/A	N/A	370x450x25	640x600x10	730x500x15	730x500x15	730x500x15	730x500x15	730x500x15	730x500x15
PLATE G	2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x390x18
PLATE H	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	6e90	6e90	6e90	4e90	8e90	5e90	5e90	5e90	5e90	5e90	5e90
2	2e105	2e105	2e105	2e105	2e130	2e105	2e105	2e105	2e105	2e105	2e105
3	6e90	6e90	6e90	4e90	7e90	8e90	8e90	8e90	8e90	8e90	8e90
4	3e80	3e80	3e80	2e105	3e90	2e130	2e130	2e130	2e130	2e130	2e130
5	2e90	2e90	2e90	2e90	2e90	2e90	2e90	2e90	2e90	2e90	2e90

FIELD SPLICE NO. 12

	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5	GIRDER 6	GIRDER 7	GIRDER 8	GIRDER 9	GIRDER 10	GIRDER 11
TYPE	C	C	C	C		C	C	C	C	C	C
PLATE A	750x450x12	750x450x12	750x450x12	750x450x12		750x450x12	750x450x12	750x450x12	750x450x12	750x450x12	750x450x12
PLATE B	750x205x14	750x205x14	750x205x14	750x205x14		750x205x14	750x205x14	750x205x14	750x205x14	750x205x14	750x205x14
PLATE C	370x450x10	370x450x10	370x450x10	370x450x10		370x450x10	370x450x10	370x450x10	370x450x10	370x450x10	370x450x10
PLATE D	750x450x12	750x450x12	930x450x12	750x450x12		750x450x12	750x450x12	750x450x12	750x450x12	750x450x12	750x450x12
PLATE E	750x205x14	750x205x14	930x205x14	750x205x14		750x205x14	750x205x14	750x205x14	750x205x14	750x205x14	750x205x14
PLATE F	370x450x25	370x450x25	460x450x20	370x450x20		370x450x10	370x450x10	370x450x10	370x450x10	370x450x10	370x450x10
PLATE G	2000x390x14	2000x390x14	2000x390x14	2000x390x14		2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x570x14
PLATE H	2000x190x1	2000x190x1	2000x190x1	N/A		2000x190x1	2000x190x1	2000x190x1	2000x190x1	2000x190x1	2000x280x1
1	4e90	4e90	4e90	4e90		4e90	4e90	4e90	4e90	4e90	4e90
2	2e105	2e105	2e105	2e105		2e105	2e105	2e105	2e105	2e105	2e105
3	4e90	4e90	5e90	4e90		4e90	4e90	4e90	4e90	4e90	4e90
4	2e105	2e105	2e105	2e105		2e105	2e105	2e105	2e105	2e105	2e105
5	2e90	2e90	2e90	2e90		2e90	2e90	2e90	2e90	2e90	3e90

REVISION NO. 3	DESCRIPTION	DATE	BY
3	PLATE SIZES	9-7-99	LAE
DESIGNED	REVIEWED	DATE	DESIGN AGENCY
MJB	DDE		PARSONS BRINCKERHOFF, INC.
CHECKED	REVIEWED		312 ELM STREET, SUITE 2500
			CINCINNATI, OH 45202-2720
			3103412
			BRIDGE NO. 4
			PLATE GIRDER SPLICES - 4
			CITY OF CINCINNATI
			CONTRACT NO. 75X5753
			109/180
			161
			232

REVISION NO. 3
SEPT 7, 1999

FIELD SPLICE NO. 13

	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5	GIRDER 6	GIRDER 7	GIRDER 8	GIRDER 9	GIRDER 10	GIRDER 11
TYPE	C	C				C	C	C	C	C	C
PLATE A	750x450x12	750x450x12				750x450x12	750x450x12	750x450x12	750x450x12	750x450x12	750x450x12
PLATE B	750x205x14	750x205x14				750x205x14	750x205x14	750x205x14	750x205x14	750x205x14	750x205x14
PLATE C	N/A	N/A				N/A	N/A	N/A	N/A	N/A	N/A
PLATE D	750x450x12	750x450x12				750x450x12	750x450x12	750x450x12	750x450x12	750x450x12	750x450x12
PLATE E	750x205x14	750x205x14				750x205x14	750x205x14	750x205x14	750x205x14	750x205x14	750x205x14
PLATE F	370x450x10	370x450x10				370x450x10	370x450x10	370x450x10	370x450x10	370x450x10	370x450x10
PLATE G	2000x390x14	2000x390x14				2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x390x14
PLATE H	N/A	N/A				N/A	N/A	N/A	N/A	N/A	N/A
1	4e90	4e90				4e90	4e90	4e90	4e90	4e90	4e90
2	2e105	2e105				2e105	2e105	2e105	2e105	2e105	2e105
3	4e90	4e90				4e90	4e90	4e90	4e90	4e90	4e90
4	2e105	2e105				2e105	2e105	2e105	2e105	2e105	2e105
5	2e90	2e90				2e90	2e90	2e90	2e90	2e90	2e90

FIELD SPLICE NO. 14

	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5	GIRDER 6	GIRDER 7	GIRDER 8	GIRDER 9	GIRDER 10	GIRDER 11
TYPE	C	C				C	C	C	C	C	C
PLATE A	750x450x12	750x450x12				750x450x12	750x450x12	750x450x12	750x450x12	750x450x12	750x450x12
PLATE B	750x205x14	750x205x14				750x205x14	750x205x14	750x205x14	750x205x14	750x205x14	750x205x14
PLATE C	N/A	N/A				N/A	N/A	N/A	N/A	N/A	N/A
PLATE D	750x450x12	750x450x12				750x450x12	750x450x12	750x450x12	750x450x12	750x450x12	750x450x12
PLATE E	750x205x14	750x205x14				750x205x14	750x205x14	750x205x14	750x205x14	750x205x14	750x205x14
PLATE F	370x450x25	370x450x25				370x450x25	370x450x25	370x450x25	370x450x25	370x450x25	370x450x25
PLATE G	2000x390x14	2000x390x14				2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x390x14
PLATE H	N/A	N/A				N/A	N/A	N/A	N/A	N/A	N/A
1	4e90	4e90				4e90	4e90	4e90	4e90	4e90	4e90
2	2e105	2e105				2e105	2e105	2e105	2e105	2e105	2e105
3	4e90	4e90				4e90	4e90	4e90	4e90	4e90	4e90
4	2e105	2e105				2e105	2e105	2e105	2e105	2e105	2e105
5	2e90	2e90				2e90	2e90	2e90	2e90	2e90	2e90

FIELD SPLICE NO. 15

	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5	GIRDER 6	GIRDER 7	GIRDER 8	GIRDER 9	GIRDER 10	GIRDER 11
TYPE	C	C				C	C	C	C	C	C
PLATE A	750x450x12	750x450x12				750x450x12	750x450x12	750x450x12	750x450x12	750x450x12	750x450x12
PLATE B	750x205x14	750x205x14				750x205x14	750x205x14	750x205x14	750x205x14	750x205x14	750x205x14
PLATE C	N/A	N/A				N/A	N/A	N/A	N/A	N/A	N/A
PLATE D	750x450x12	750x450x12				750x450x12	750x450x12	750x450x12	750x450x12	750x450x12	750x450x12
PLATE E	750x205x14	750x205x14				750x205x14	750x205x14	750x205x14	750x205x14	750x205x14	750x205x14
PLATE F	370x450x25	370x450x25				370x450x25	370x450x25	370x450x25	370x450x25	370x450x25	370x450x25
PLATE G	2000x390x14	2000x390x14				2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x390x14
PLATE H	N/A	N/A				N/A	N/A	N/A	N/A	N/A	N/A
1	4e90	4e90				4e90	4e90	4e90	4e90	4e90	4e90
2	2e105	2e105				2e105	2e105	2e105	2e105	2e105	2e105
3	4e90	4e90				4e90	4e90	4e90	4e90	4e90	4e90
4	2e105	2e105				2e105	2e105	2e105	2e105	2e105	2e105
5	2e90	2e90				2e90	2e90	2e90	2e90	2e90	2e90

REVISION NO.	REVISION 1	DATE	BY
	2	8-6-99	LAE
DESCRIPTION	PLATE SIZES	DESIGN AGENCY	
	DATE	PARSONS BRINCKERHOFF, INC.	
REVISION NO.	REVISION 1	DATE	BY
	2	3/03/12	LAE
DESCRIPTION	PLATE SIZES	DESIGN AGENCY	
	DATE	PARSONS BRINCKERHOFF, INC.	
PLATE GIRDER SPLICES - 5 BRIDGE NO. 4			
CITY OF CINCINNATI CONTRACT NO. 75X5753			
110/180			

REVISION NO. 2
AUGUST 6, 1999

162
232

8/2/00-99
 G:\ADDON\PRE\HE-4\B\N\04\04\0708.plt
 8/2/00-99
 G:\ADDON\PRE\HE-4\B\N\04\04\0708.plt

FIELD SPLICE NO. 16

	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5	GIRDER 6	GIRDER 7	GIRDER 8
TYPE	C	C	C	C	C	C	C	C
PLATE A	750x450x12	750x450x12	750x450x12	750x450x12	750x450x12	750x450x12	750x450x12	750x450x12
PLATE B	750x205x14	750x205x14	750x205x14	750x205x14	750x205x14	750x205x14	750x205x14	750x205x14
PLATE C	370x450x10	370x450x10	370x450x10	370x450x10	370x450x10	370x450x10	370x450x10	370x450x10
PLATE D	930x450x12	930x450x12	930x450x12	930x450x12	930x450x12	930x450x12	930x450x12	930x450x12
PLATE E	930x205x14	930x205x14	930x205x14	930x205x14	930x205x14	930x205x14	930x205x14	930x205x14
PLATE F	460x450x10	460x450x10	460x450x10	460x450x10	460x450x10	460x450x10	460x450x10	460x450x10
PLATE G	2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x390x14
PLATE H	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	4e90	4e90	4e90	4e90	4e90	4e90	4e90	4e90
2	2e105	2e105	2e105	2e105	2e105	2e105	2e105	2e105
3	5e90	5e90	5e90	5e90	5e90	5e90	5e90	5e90
4	2e105	2e105	2e105	2e105	2e105	2e105	2e105	2e105
5	2e90	2e90	2e90	2e90	2e90	2e90	2e90	2e90

FIELD SPLICE NO. 17

	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5	GIRDER 6	GIRDER 7	GIRDER 8
TYPE	C	C	C	C	C	C	C	C
PLATE A	750x450x12	750x450x12	750x450x12	750x450x12	750x450x12	750x450x12	750x450x12	750x450x12
PLATE B	750x205x14	750x205x14	750x205x14	750x205x14	750x205x14	750x205x14	750x205x14	750x205x14
PLATE C	370x450x10	370x450x10	370x450x10	370x450x10	370x450x10	370x450x10	370x450x10	370x450x10
PLATE D	930x450x12	930x450x12	930x450x12	930x450x12	930x450x12	930x450x12	930x450x12	930x450x12
PLATE E	930x205x14	930x205x14	930x205x14	930x205x14	930x205x14	930x205x14	930x205x14	930x205x14
PLATE F	460x450x10	460x450x10	460x450x10	460x450x10	460x450x10	460x450x10	460x450x10	460x450x10
PLATE G	2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x390x14	2000x390x14
PLATE H	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	4e90	4e90	4e90	4e90	4e90	4e90	4e90	4e90
2	2e105	2e105	2e105	2e105	2e105	2e105	2e105	2e105
3	5e90	5e90	5e90	5e90	5e90	5e90	5e90	5e90
4	2e105	2e105	2e105	2e105	2e105	2e105	2e105	2e105
5	2e90	2e90	2e90	2e90	2e90	2e90	2e90	2e90

2

REVISION NO.	DESCRIPTION	DATE	BY
REVISION 2	PLATE SIZES	8-6-99	LAE
DESIGNED MJB	DRAWN DDE	DATE 3/10/34/2	DESIGN AGENCY PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 SPRINGFIELD, OH 45502-2720
CHECKED LHE/KEE	REVIEWED	DATE 3/10/34/2	

PLATE GIRDER SPLICES - 6
BRIDGE NO. 4

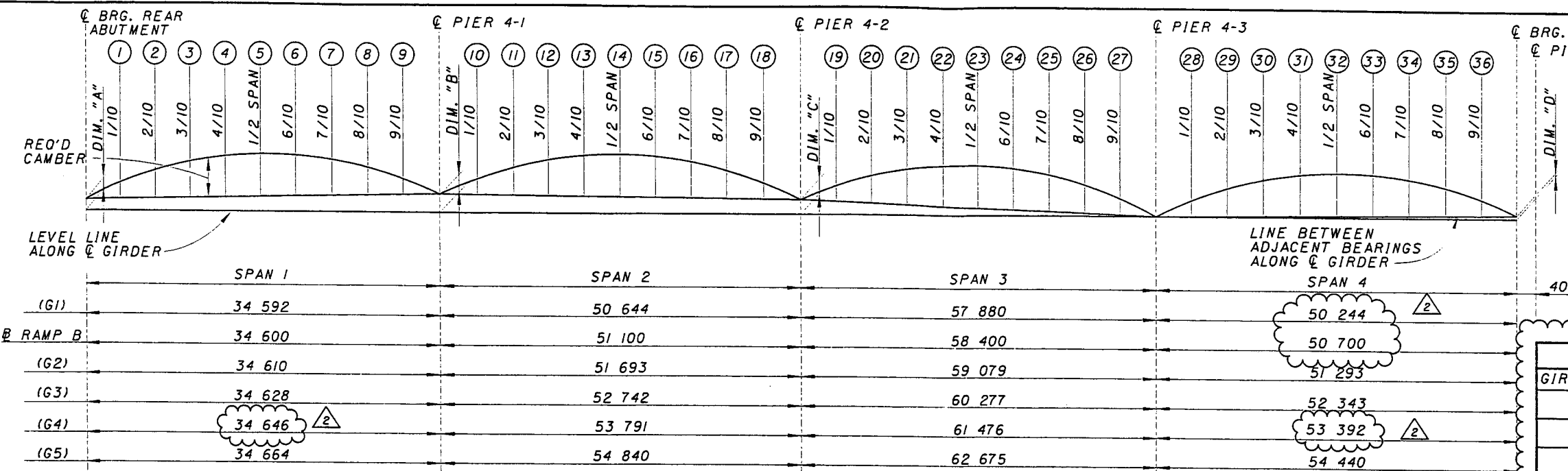
CITY OF CINCINNATI
CONTRACT No. 75X5753

III / 180

REVISION NO. 2
AUGUST 6, 1999

163
232

Thu Aug 12 13:01:53 1999
 8/12/99
 G:\ADD\PRF\HP4VB\04-30701.pr4
 G:\ADD\PRF\HP4VB\04-30701.dgn
 G:\ADD\PRF\HP4VB\04-30701.dgn



NOTES:

1. POSITIVE CAMBER IS UPWARD.
2. GEOMETRIC CORRECTION IS A COMBINATION OF VERTICAL CURVE AND SUPERELEVATION TRANSITION CORRECTIONS.

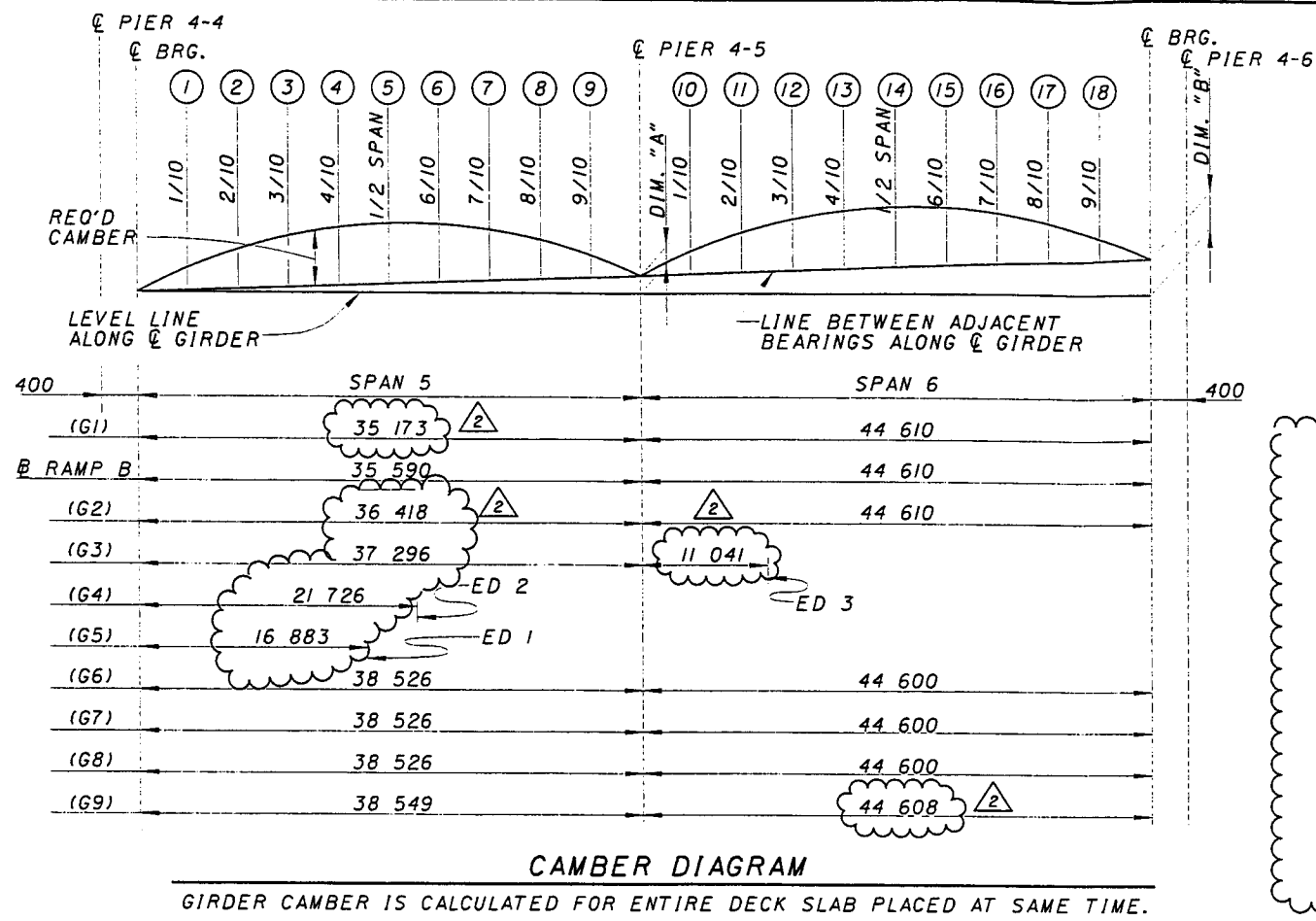
BLOCKING				
GIRDER	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"
1	1710	2800	2231	511
2	1601	2770	2231	511
3	1492	2739	2231	511
4	1389	2710	2231	514
5	1389	2710	2231	564

CAMBER DIAGRAM
 GIRDER CAMBER IS CALCULATED FOR ENTIRE DECK SLAB PLACED AT SAME TIME.

		CAMBER TABLE (mm)																																			
		SPAN 1									SPAN 2									SPAN 3									SPAN 4								
LOCATION		①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔	㉕	㉖	㉗	㉘	㉙	㉚	㉛	㉜	㉝	㉞	㉟	㊱
GIRDER 1	DEFLECTION DUE TO WEIGHT OF STEEL	2	3	4	4	4	3	2	1	0	2	5	7	9	9	8	6	3	1	2	6	9	12	12	11	9	5	2	1	4	7	10	12	12	11	9	5
	DEFLECTION DUE TO REMAINING DEAD LOAD	11	21	28	31	29	23	15	7	2	8	22	36	45	47	41	29	16	5	8	22	37	48	52	47	34	19	5	7	19	35	48	57	60	55	42	23
	GEOMETRIC CORRECTION	31	59	86	111	124	125	113	88	51	121	214	283	326	341	327	287	219	123	-18	-56	-93	-131	-169	-203	-207	-175	-106	-125	-220	-288	-330	-344	-331	-290	-220	-124
	REQUIRED SHOP CAMBER	44	83	118	146	157	151	130	96	53	131	241	326	380	397	376	322	238	129	-8	-28	-47	-71	-105	-145	-164	-151	-99	-117	-197	-246	-272	-275	-259	-224	-169	-96
GIRDER 2	DEFLECTION DUE TO WEIGHT OF STEEL	2	3	3	4	3	2	1	0	0	3	6	9	11	12	10	7	4	1	2	5	9	12	12	11	8	4	1	2	6	10	14	17	18	16	12	7
	DEFLECTION DUE TO REMAINING DEAD LOAD	10	19	25	26	25	20	13	6	1	9	25	41	50	52	46	33	17	5	7	22	38	49	53	47	33	18	4	8	23	41	57	67	70	64	50	27
	GEOMETRIC CORRECTION	23	50	78	104	118	121	109	85	50	131	235	304	344	356	339	296	225	126	-18	-56	-93	-131	-169	-203	-207	-175	-106	-125	-220	-288	-330	-344	-331	-290	-220	-124
	REQUIRED SHOP CAMBER	35	72	106	134	146	143	123	91	51	143	266	354	405	420	395	336	246	132	-9	-29	-46	-70	-104	-145	-166	-153	-101	-115	-191	-237	-259	-260	-243	-210	-158	-90
GIRDER 3	DEFLECTION DUE TO WEIGHT OF STEEL	1	2	3	3	2	1	0	-1	-1	3	7	11	14	14	12	9	5	2	2	5	9	12	12	11	7	3	0	3	8	14	19	22	23	21	16	9
	DEFLECTION DUE TO REMAINING DEAD LOAD	10	17	22	23	22	17	10	4	1	11	28	45	55	57	50	35	19	5	7	23	39	51	54	47	33	16	3	10	28	47	66	78	81	74	57	31
	GEOMETRIC CORRECTION	15	42	71	98	113	117	106	83	49	142	256	325	362	372	352	306	231	129	-18	-56	-93	-131	-169	-203	-207	-175	-106	-125	-220	-288	-330	-344	-331	-290	-220	-124
	REQUIRED SHOP CAMBER	26	61	96	124	137	135	116	86	49	156	291	381	431	443	414	350	255	136	-9	-28	-45	-68	-103	-145	-167	-156	-103	-112	-184	-227	-245	-244	-227	-195	-147	-84
GIRDER 4	DEFLECTION DUE TO WEIGHT OF STEEL	1	2	2	2	1	0	-1	-1	-1	4	9	13	16	16	14	10	5	2	2	5	9	12	12	10	7	3	0	4	10	17	23	27	28	25	19	10
	DEFLECTION DUE TO REMAINING DEAD LOAD	9	15	20	21	19	13	8	2	-1	12	31	49	60	62	54	38	21	6	6	23	40	52	55	48	32	14	2	12	32	55	76	90	93	85	65	36
	GEOMETRIC CORRECTION	8	34	65	93	108	112	103	82	48	152	275	346	380	386	363	314	237	132	-18	-56	-93	-131	-169	-203	-207	-175	-106	-125	-221	-289	-332	-345	-332	-292	-222	-126
	REQUIRED SHOP CAMBER	18	51	87	116	128	125	110	83	46	168	315	408	456	464	431	362	263	140	-10	-28	-44	-67	-102	-145	-168	-158	-104	-109	-179	-217	-233	-228	-211	-182	-138	-80
GIRDER 5	DEFLECTION DUE TO WEIGHT OF STEEL	1	1	1	1	0	-1	-2	-2	-1	4	10	15	18	18	16	11	6	2	1	5	9	12	12	10	6	2	1	5	12	21	28	33	34	30	23	13
	DEFLECTION DUE TO REMAINING DEAD LOAD	8	15	19	19	16	11	5	0	-2	14	34	54	67	69	59	42	22	7	7	23	41	54	57	48	32	13	1	14	37	62	86	101	105	97	75	40
	GEOMETRIC CORRECTION	8	34	65	93	108	112	103	82	48	152	275	346	380	386	363	314	237	132	-18	-56	-93	-131	-169	-203	-207	-175	-106	-130	-231	-304	-352	-370	-362	-327	-262	-150
	REQUIRED SHOP CAMBER	17	50	85	113	124	122	106	80	45	170	319	417	465	473	438	367	265	141	-10	-28	-43	-65	-100	-145	-169	-160	-104	-111	-182	-221	-238	-236	-223	-200	-164	-97

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720
 DATE: 8-6-99
 CBS/KDB
 DESCRIPTION: BRIDGE NO. 4 RAMP B
 REVISION NO. 2
 REVISION NO. 1
 CITY OF CINCINNATI CONTRACT NO. 75X5753
 164/232

REVISION NO. 2
 AUGUST 6, 1999



- NOTES:**
1. POSITIVE CAMBER IS UPWARD.
 2. GEOMETRIC CORRECTION IS A COMBINATION OF VERTICAL CURVE AND SUPERELEVATION TRANSITION CORRECTIONS.
 3. SEE SHEET V14/180 FOR CONTINUATION OF CAMBER TABLE

GIRDER	DIM. "A"	DIM. "B"
1	1905	3875
2	1829	3667
3	1743	3504
4	1699	—
5	1784	—
6	1823	3520
7	1855	3533
8	1855	3534
9	1834	3505

LOCATION	SPAN 5									SPAN 6									
	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	
GIRDER 1	DEFLECTION DUE TO WEIGHT OF STEEL	2	3	4	4	4	3	2	1	0	2	4	7	10	12	12	11	8	5
	DEFLECTION DUE TO REMAINING DEAD LOAD	8	15	19	20	18	13	8	2	0	10	25	43	57	68	70	64	48	27
	GEOMETRIC CORRECTION	-46	-77	-95	-101	-93	-75	-56	-37	-18	67	119	156	177	184	176	155	118	66
	REQUIRED SHOP CAMBER	-36	-59	-72	-77	-71	-59	-46	-34	-18	79	148	206	244	264	258	230	174	98
GIRDER 2	DEFLECTION DUE TO WEIGHT OF STEEL	2	4	5	5	5	4	3	1	0	2	4	7	10	12	12	11	8	5
	DEFLECTION DUE TO REMAINING DEAD LOAD	9	16	20	21	20	16	9	3	0	10	25	42	58	69	71	65	50	27
	GEOMETRIC CORRECTION	-46	-79	-98	-103	-93	-74	-56	-38	-19	61	108	145	168	176	169	150	115	65
	REQUIRED SHOP CAMBER	-35	-59	-73	-77	-68	-54	-44	-34	-19	73	137	194	236	257	252	226	173	97
GIRDER 3	DEFLECTION DUE TO WEIGHT OF STEEL	2	4	5	6	6	5	3	2	1	2	4							
	DEFLECTION DUE TO REMAINING DEAD LOAD	9	16	21	22	21	17	10	4	0	10	25							
	GEOMETRIC CORRECTION	-44	-76	-93	-99	-90	-72	-54	-36	-18	52	96							
	REQUIRED SHOP CAMBER	-33	-56	-67	-71	-63	-50	-41	-30	-17	64	125							
GIRDER 4	DEFLECTION DUE TO WEIGHT OF STEEL	2	4	6	6	6													
	DEFLECTION DUE TO REMAINING DEAD LOAD	9	16	21	23	21													
	GEOMETRIC CORRECTION	-27	-48	-62	-68	-61													
	REQUIRED SHOP CAMBER	-16	-28	-35	-39	-34													

REVISION NO.	DESCRIPTION	DATE	BY
2	REVISED CAMBER	8-6-99	CBS / MCG

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

REVISION NO.	DESCRIPTION	DATE	BY
2	REVISED CAMBER	8-6-99	CBS / MCG

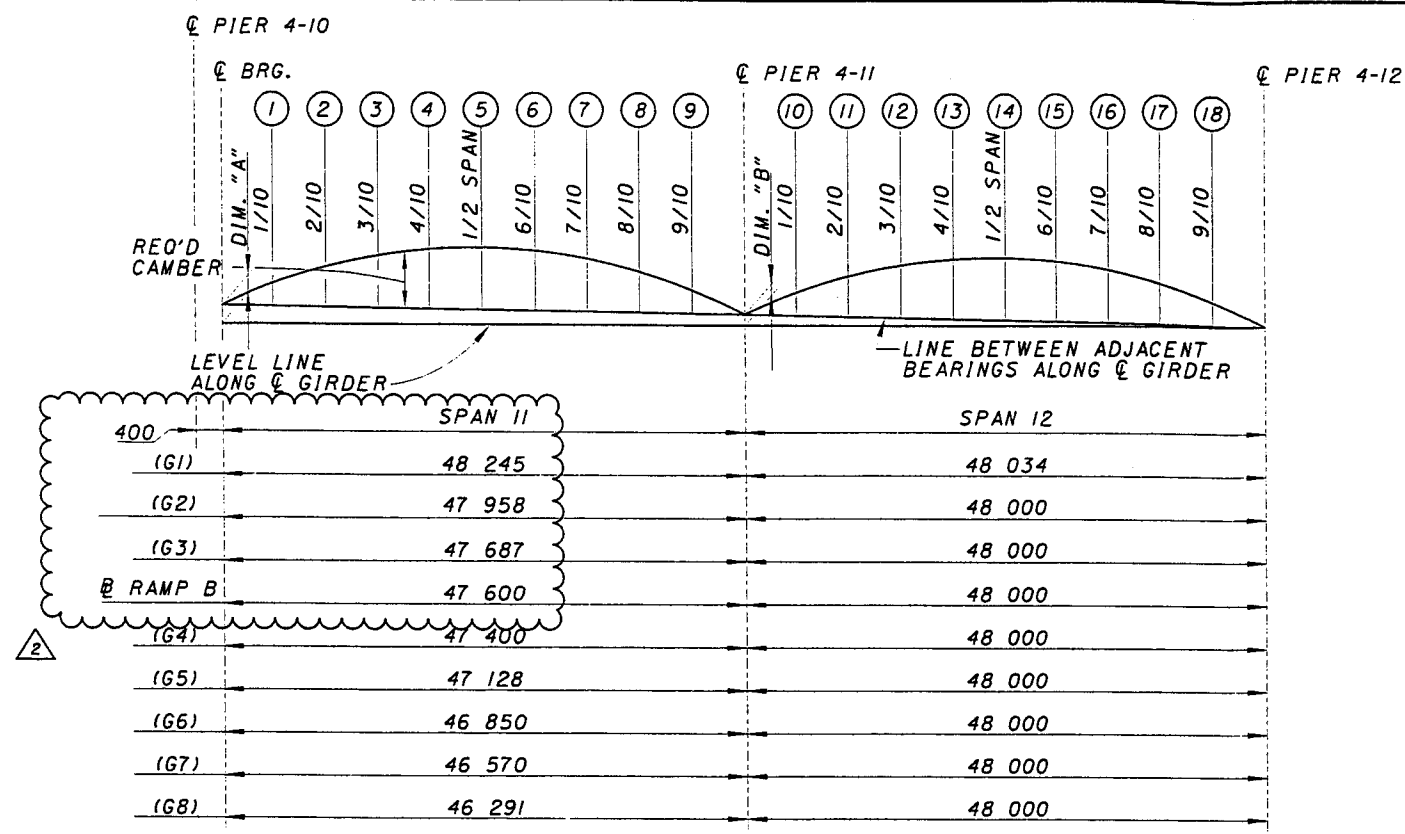
GIRDER CAMBER DIAGRAM - UNIT 2
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

113 / 180

REVISION NO. 2
 AUGUST 6, 1999

165
232



CAMBER DIAGRAM
GIRDER CAMBER IS CALCULATED FOR ENTIRE DECK SLAB PLACED AT SAME TIME.

		CAMBER TABLE (mm)																	
		SPAN 11									SPAN 12								
LOCATION		①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱
GIRDER 1	DEFLECTION DUE TO WEIGHT OF STEEL	5	9	12	13	12	10	6	3	1	1	4	7	11	14	15	14	11	6
	DEFLECTION DUE TO REMAINING DEAD LOAD	24	43	56	60	55	44	29	14	3	6	19	37	55	69	74	70	55	30
	GEOMETRIC CORRECTION	101	178	234	266	276	264	229	170	89	-26	-51	-77	-102	-142	-163	-159	-131	-80
	REQUIRED SHOP CAMBER	130	230	302	339	343	318	264	187	93	-19	-28	-33	-36	-59	-74	-75	-65	-44
GIRDER 2	DEFLECTION DUE TO WEIGHT OF STEEL	5	9	12	13	12	10	6	3	1	1	4	7	11	14	15	14	11	6
	DEFLECTION DUE TO REMAINING DEAD LOAD	24	43	56	60	55	44	29	14	3	6	19	37	55	69	74	70	55	30
	GEOMETRIC CORRECTION	101	178	234	266	276	264	229	170	89	-28	-57	-85	-114	-150	-166	-161	-131	-79
	REQUIRED SHOP CAMBER	130	230	302	339	343	318	264	187	93	-21	-34	-41	-48	-67	-77	-77	-65	-43
GIRDER 3	DEFLECTION DUE TO WEIGHT OF STEEL	5	9	12	13	12	10	6	3	1	1	4	7	11	14	15	14	11	6
	DEFLECTION DUE TO REMAINING DEAD LOAD	24	43	56	60	55	44	29	14	3	6	19	37	55	69	74	70	55	30
	GEOMETRIC CORRECTION	101	178	234	266	276	264	229	170	89	-34	-67	-101	-134	-167	-181	-170	-137	-80
	REQUIRED SHOP CAMBER	130	230	302	339	343	318	264	187	93	-27	-44	-57	-68	-84	-92	-86	-71	-44
GIRDER 4	DEFLECTION DUE TO WEIGHT OF STEEL	5	9	12	13	12	10	6	3	1	1	4	7	11	14	15	14	11	6
	DEFLECTION DUE TO REMAINING DEAD LOAD	24	43	56	60	55	44	29	14	3	6	19	37	55	69	74	70	55	30
	GEOMETRIC CORRECTION	95	173	230	262	274	261	226	168	88	-35	-70	-105	-140	-172	-183	-173	-137	-81
	REQUIRED SHOP CAMBER	124	225	298	335	341	315	261	185	92	-28	-47	-61	-74	-89	-94	-89	-71	-45

BLOCKING		
GIRDER	DIM. "A"	DIM. "B"
1	4555	2594
2	4557	2596
3	4505	2544
4	4369	2466
5	4198	2377
6	4028	2288
7	3858	2199
8	3719	2141

- NOTES:**
- POSITIVE CAMBER IS UPWARD.
 - GEOMETRIC CORRECTION IS A COMBINATION OF VERTICAL CURVE AND SUPERELEVATION TRANSITION CORRECTIONS.
 - SEE SHEET 118/180 FOR CONTINUATION OF CAMBER TABLE.
 - DEFLECTION OF PIER GIRDER 4-12 IS NOT INCLUDED IN THE GIRDER CAMBER OR BLOCKING DIMENSIONS SHOWN HERE.

REVISION NO.	DESCRIPTION	DATE	BY
2	REVISED CAMBER	8-6-99	CBS

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720



DESIGNED	DRAWN	REVIEWED	DATE
MJB	MCG		

STRUCTURE FILE NUMBER
3103412

GIRDER CAMBER DIAGRAM - UNIT 4
BRIDGE NO. 4
RAMP B

CITY OF CINCINNATI
CONTRACT No. 75X5753

117/180

REVISION NO. 2
AUGUST 6, 1999

169
232

CAMBER TABLE (mm) - CONT.																		
		SPAN 11									SPAN 12							
LOCATION		①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰
GIRDER 5	DEFLECTION DUE TO WEIGHT OF STEEL	5	9	12	13	12	10	6	3	1	1	4	7	11	14	15	14	11
	DEFLECTION DUE TO REMAINING DEAD LOAD	24	43	56	60	55	44	29	14	3	6	19	37	55	69	74	70	55
	GEOMETRIC CORRECTION	88	166	224	257	270	258	224	167	87	-35	-70	-104	-139	-171	-183	-171	-135
	REQUIRED SHOP CAMBER	117	218	292	330	337	312	259	184	91	-28	-47	-60	-73	-88	-94	-87	-69
GIRDER 6	DEFLECTION DUE TO WEIGHT OF STEEL	5	9	12	13	12	10	6	3	1	1	4	7	11	14	15	14	11
	DEFLECTION DUE TO REMAINING DEAD LOAD	24	43	56	60	55	44	29	14	3	6	19	37	55	69	74	70	55
	GEOMETRIC CORRECTION	80	159	218	252	265	254	221	165	86	-35	-69	-104	-139	-170	-181	-169	-135
	REQUIRED SHOP CAMBER	109	211	286	325	332	308	256	182	90	-28	-46	-60	-73	-87	-92	-85	-69
GIRDER 7	DEFLECTION DUE TO WEIGHT OF STEEL	5	9	12	13	12	10	6	3	1	1	4	7	11	14	15	14	11
	DEFLECTION DUE TO REMAINING DEAD LOAD	24	43	56	60	55	44	29	14	3	6	19	37	55	69	74	70	55
	GEOMETRIC CORRECTION	72	152	212	247	261	250	218	163	85	-35	-69	-103	-137	-169	-181	-169	-133
	REQUIRED SHOP CAMBER	101	204	280	320	328	304	253	180	89	-28	-46	-59	-71	-86	-92	-85	-67
GIRDER 8	DEFLECTION DUE TO WEIGHT OF STEEL	5	9	12	13	12	10	6	3	1	1	4	7	11	14	15	14	11
	DEFLECTION DUE TO REMAINING DEAD LOAD	24	43	56	60	55	44	29	14	3	6	19	37	55	69	74	70	55
	GEOMETRIC CORRECTION	64	146	205	241	256	247	217	161	85	-31	-62	-93	-124	-153	-162	-155	-123
	REQUIRED SHOP CAMBER	93	198	273	314	323	301	252	178	89	-24	-39	-49	-58	-70	-73	-71	-57

△

REVISION NO.	DESCRIPTION	DATE	BY
REVISION 2	REVISED CAMBER	8-6-99	CBS
DESIGNED	DATE	DESIGN AGENCY	
CHK'D	REVIEWED		
MJB	3/03/12		
ENR'D	3/03/12		

PB
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

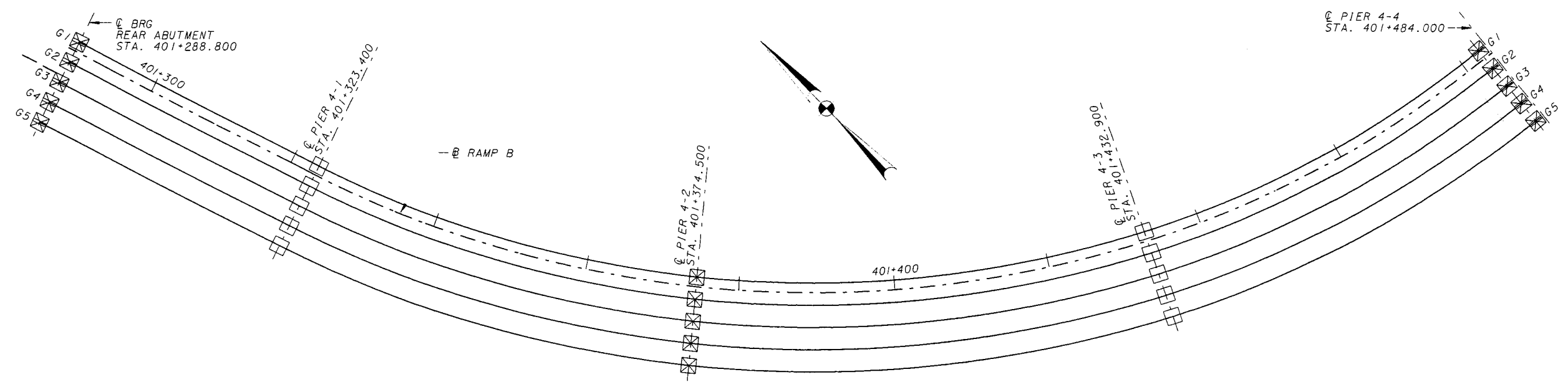
CAMBER TABLE - UNIT 4
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

118/180

REVISION NO. 2
 AUGUST 6, 1999

170
 232



BEARING ARRANGEMENT PLAN - UNIT 1

REVISION NO.	DESCRIPTION	DATE	BY
ADDDUM 1	ANGLE γ CHANGED	7-12-99	AR
	DRAWN	REVIEWED	DATE
	AR	BZX	-
	CHECKED	JWM	REVIEWED
			STRUCTURE FILE NUMBER
			3103412

BEARING DETAILS - 1. UNIT 1
 BRIDGE No. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

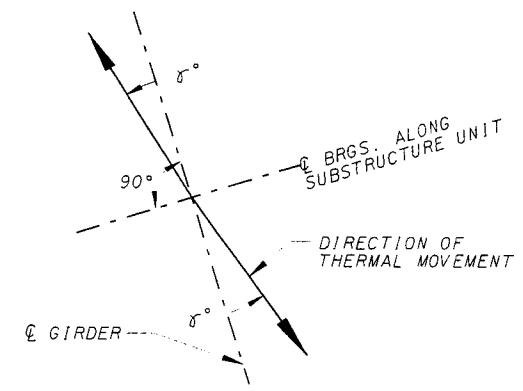
119/180

171
 232

BEARINGS DESIGN CRITERIA

LOCATION	REAR ABUTMENT					PIER 4-1					PIER 4-2				
	G1	G2	G3	G4	G5	G1	G2	G3	G4	G5	G1	G2	G3	G4	G5
BEARING TYPE	GEB	GEB	GEB	GEB	GEB	EB	EB	EB	EB	EB	FB	FB	FB	FB	FB
VERT. LD (KN)	720	670	660	650	670	2270	1960	2100	2190	2450	3020	2360	2400	2790	2790
HORIZ. TRANSVERSE LD (KN)	870	870	870	870	870	0	0	0	0	0	870	870	870	870	870
HORIZ. LONGITUDINAL LD (KN)	0	0	0	0	0	0	0	0	0	0	870	870	870	870	870
DESIGN MOVEMENT (mm)	64	64	64	64	64	40	40	40	40	40	0	0	0	0	0
ANGLE γ (DEG.)	8	8	8	8	8	0	0	0	0	0	0	0	0	0	0
D.L. ROTATION (RAD)	-0.00419	-0.00359	-0.00323	-0.00279	-0.00257	-0.00104	-0.00144	0.00183	-0.00221	-0.00261	-0.00042	-0.00028	-0.00016	-0.00004	0.00006
ROADWAY GRADE %	4.044	4.044	4.044	4.044	4.044	1.627	1.627	1.627	1.627	1.627	-3.808	-3.808	-3.808	-3.808	-3.808
BEVELED SOLE PL. T (mm)	60	60	60	60	60	80	80	80	80	80	60	60	60	60	60
FLAT SOLE PL. T (mm)	60	60	60	60	60	0	0	0	0	0	40	40	40	40	40
MASONRY PL. T (mm)	80	80	80	80	80	0	0	0	0	0	80	80	80	80	80
ELASTOMERIC PAD T (mm)	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
TOTAL BRG. DEPTH (mm)	299	299	299	299	299	179	179	179	179	179	279	279	279	279	279

LOCATION	PIER 4-3					PIER 4-4				
	G1	G2	G3	G4	G5	G1	G2	G3	G4	G5
BEARING TYPE	EB	EB	EB	EB	EB	GEB	GEB	GEB	GEB	GEB
VERT. LD (KN)	3230	2530	2830	3260	3030	790	800	920	1100	1430
HORIZ. TRANSVERSE LD (KN)	0	0	0	0	0	870	870	870	870	870
HORIZ. LONGITUDINAL LD (KN)	0	0	0	0	0	0	0	0	0	0
DESIGN MOVEMENT (mm)	43	43	43	43	43	79	79	79	79	79
ANGLE γ (DEG.)	0	0	0	0	0	-19	-19	-19	-19	-19
D.L. ROTATION (RAD)	-0.00009	-0.00051	-0.00095	-0.00135	-0.00174	0.00606	0.00713	0.00815	0.00919	0.01041
ROADWAY GRADE %	-1.703	-1.703	-1.703	-1.703	-1.703	3.764	3.764	3.764	3.764	3.764
BEVELED SOLE PL. T (mm)	80	80	80	80	80	60	60	60	60	60
FLAT SOLE PL. T (mm)	0	0	0	0	0	60	60	60	60	60
MASONRY PL. T (mm)	0	0	0	0	0	80	80	80	80	80
ELASTOMERIC PAD T (mm)	99	99	99	99	99	99	99	99	99	99
TOTAL BRG. DEPTH (mm)	179	179	179	179	179	299	299	299	299	299



BEARING ORIENTATION

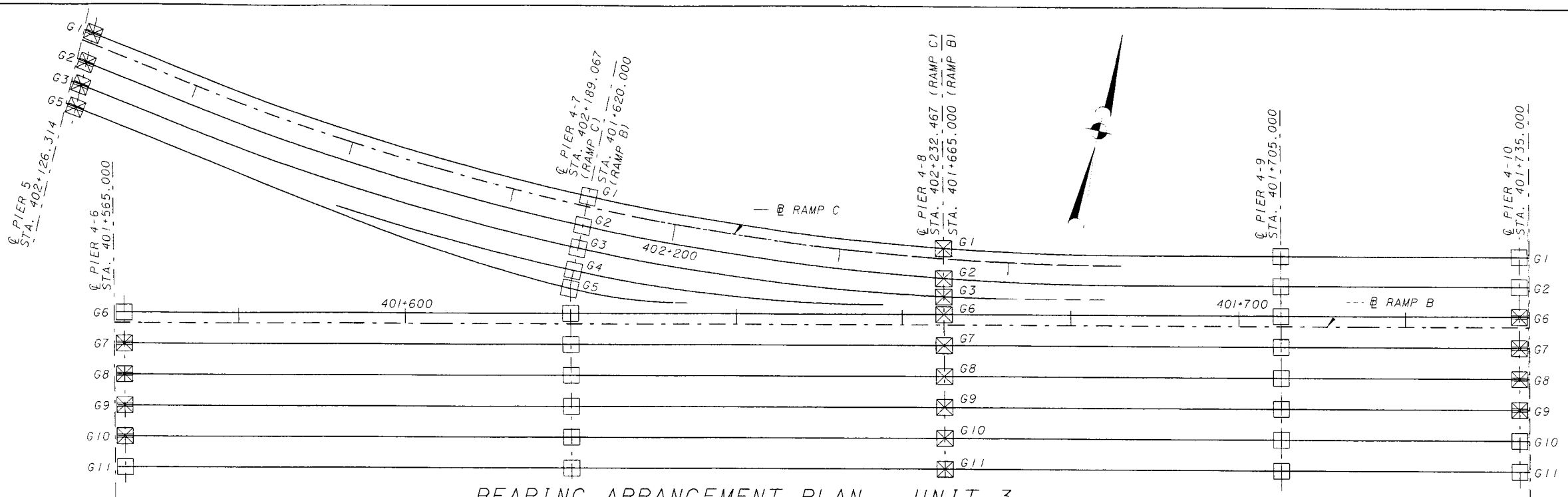
LEGEND:

- FIXED BEARINGS (FB)
- EXPANSION BEARINGS (EB), NON-GUIDED
- GUIDED EXP. BEARINGS (GEB)

NOTES:

1. SEE SHEETS 3/180 THROUGH 10/180 FOR GENERAL PLAN AND UNIT DESIGNATION NUMBERS.
2. POSITIVE ANGLE γ (SHOWN) IS MEASURED COUNTERCLOCKWISE FROM G GIRDER TO DIRECTION OF THERMAL MOVEMENTS.

ADDDUM NO. 1
 JULY 12, 1999



BEARING ARRANGEMENT PLAN - UNIT 3

BEARINGS DESIGN CRITERIA

LOCATION	PIER 5				PIER 4-6						PIER 4-7										
	G1	G2	G3	G5	G6	G7	G8	G9	G10	G11	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11
BEARING TYPE	GEB	GEB	GEB	GEB	EB	GEB	GEB	GEB	GEB	EB	EB	EB	EB	EB	EB	EB	EB	EB	EB	EB	EB
VERT. LD (KN)	1280	1190	1350	1470	1330	1310	1380	1260	1250	1290	3760	3060	2800	2670	3630	2970	3100	3240	3320	3360	3530
HORIZ. TRANSVERSE LD (KN)	310	310	310	310	0	310	310	310	310	0	0	0	0	0	0	0	0	0	0	0	0
HORIZ. LONGITUDINAL LD (KN)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DESIGN MOVEMENT (mm)	77	77	77	77	70	70	70	70	70	70	29	29	29	29	29	29	29	29	29	29	29
ANGLE δ (DEG.)	2	2	2	2	0	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0
D.L. ROTATION (RAD)	-0.01473	-0.01546	-0.01612	-0.01691	-0.01297	-0.01274	-0.01256	-0.01228	-0.01205	-0.01182	0.00626	0.00649	0.00657	0.00660	0.00650	0.00597	0.00538	0.00490	0.00455	0.00427	0.00399
ROADWAY GRADE %	-2.524	-2.524	-2.524	-2.524	2.654	2.654	2.654	2.654	2.654	2.654	-0.511	-0.511	-0.511	-0.511	-0.511	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500
BEVELED SOLE PL. T (mm)	60	60	60	60	60	60	60	60	60	60	80	80	80	80	80	80	80	80	80	80	80
FLAT SOLE PL. T (mm)	60	60	60	60	0	60	60	60	60	0	0	0	0	0	0	0	0	0	0	0	0
MASONRY PL. T (mm)	80	80	80	80	0	80	80	80	80	0	0	0	0	0	0	0	0	0	0	0	0
ELASTOMERIC PAD T (mm)	109	109	109	109	109	109	109	109	109	109	99	99	99	99	99	99	99	99	99	99	99
TOTAL BRG. DEPTH (mm)	309	309	309	309	189	309	309	309	309	189	179	179	179	179	179	179	179	179	179	179	179

LOCATION	PIER 4-8									PIER 4-9							
	G1	G2	G3	G6	G7	G8	G9	G10	G11	G1	G2	G6	G7	G8	G9	G10	G11
BEARING TYPE	FB	FB	FB	FB	FB	FB	FB	FB	FB	EB	EB	EB	EB	EB	EB	EB	EB
VERT. LD (KN)	1970	1540	1250	1610	1940	1990	2060	2090	2250	2300	2190	2210	2250	2230	2230	2210	2330
HORIZ. TRANSVERSE LD (KN)	910	910	910	910	910	910	910	910	910	0	0	0	0	0	0	0	0
HORIZ. LONGITUDINAL LD (KN)	1450	1450	1450	1450	1450	1450	1450	1450	1450	0	0	0	0	0	0	0	0
DESIGN MOVEMENT (mm)	0	0	0	0	0	0	0	0	0	34	34	34	34	34	34	34	34
ANGLE δ (DEG.)	4.0	4.0	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D.L. ROTATION (RAD)	-0.00220	-0.00215	-0.00201	-0.00200	-0.00185	-0.00158	-0.00135	-0.00108	-0.00087	0.00112	0.00112	0.00109	0.00105	0.00102	0.00094	0.00091	0.00083
ROADWAY GRADE %	-0.511	-0.511	-0.511	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500	-0.500
BEVELED SOLE PL. T (mm)	60	60	60	60	60	60	60	60	60	80	80	80	80	80	80	80	80
FLAT SOLE PL. T (mm)	40	40	40	40	40	40	40	40	40	0	0	0	0	0	0	0	0
MASONRY PL. T (mm)	80	80	80	80	80	80	80	80	80	0	0	0	0	0	0	0	0
ELASTOMERIC PAD T (mm)	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
TOTAL BRG. DEPTH (mm)	279	279	279	279	279	279	279	279	279	179	179	179	179	179	179	179	179

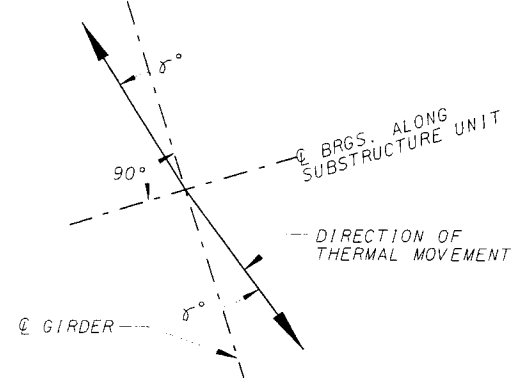
LOCATION	PIER 4-10						
	G1	G2	G6	G7	G8	G9	G11
BEARING TYPE	EB	EB	GEB	GEB	GEB	GEB	EB
VERT. LD (KN)	720	720	750	750	770	760	770
HORIZ. TRANSVERSE LD (KN)	0	0	610	610	610	610	0
HORIZ. LONGITUDINAL LD (KN)	0	0	0	0	0	0	0
DESIGN MOVEMENT (mm)	57	57	57	57	57	57	57
ANGLE δ (DEG.)	0	0	0	0	0	0	0
D.L. ROTATION (RAD)	0.00169	0.00178	0.00186	0.00186	0.00195	0.00195	0.00203
ROADWAY GRADE %	-1.730	-1.730	-1.730	-1.730	-1.730	-1.730	-1.730
BEVELED SOLE PL. T (mm)	80	80	60	60	60	60	80
FLAT SOLE PL. T (mm)	0	0	60	60	60	60	0
MASONRY PL. T (mm)	0	0	80	80	80	80	0
ELASTOMERIC PAD T (mm)	99	99	99	99	99	99	99
TOTAL BRG. DEPTH (mm)	179	179	299	299	299	299	179

LEGEND:

- ⊠ FIXED BEARINGS (FB)
- EXPANSION BEARINGS (EB), NON-GUIDED
- ⊞ GUIDED EXP. BEARINGS (GEB)

NOTES:

1. SEE SHEETS 3/180 THROUGH 10/180 FOR GENERAL PLAN AND UNIT DESIGNATION NUMBERS.
2. POSITIVE ANGLE δ (SHOWN) IS MEASURED COUNTERCLOCKWISE FROM ϕ GIRDER TO DIRECTION OF THERMAL MOVEMENTS.

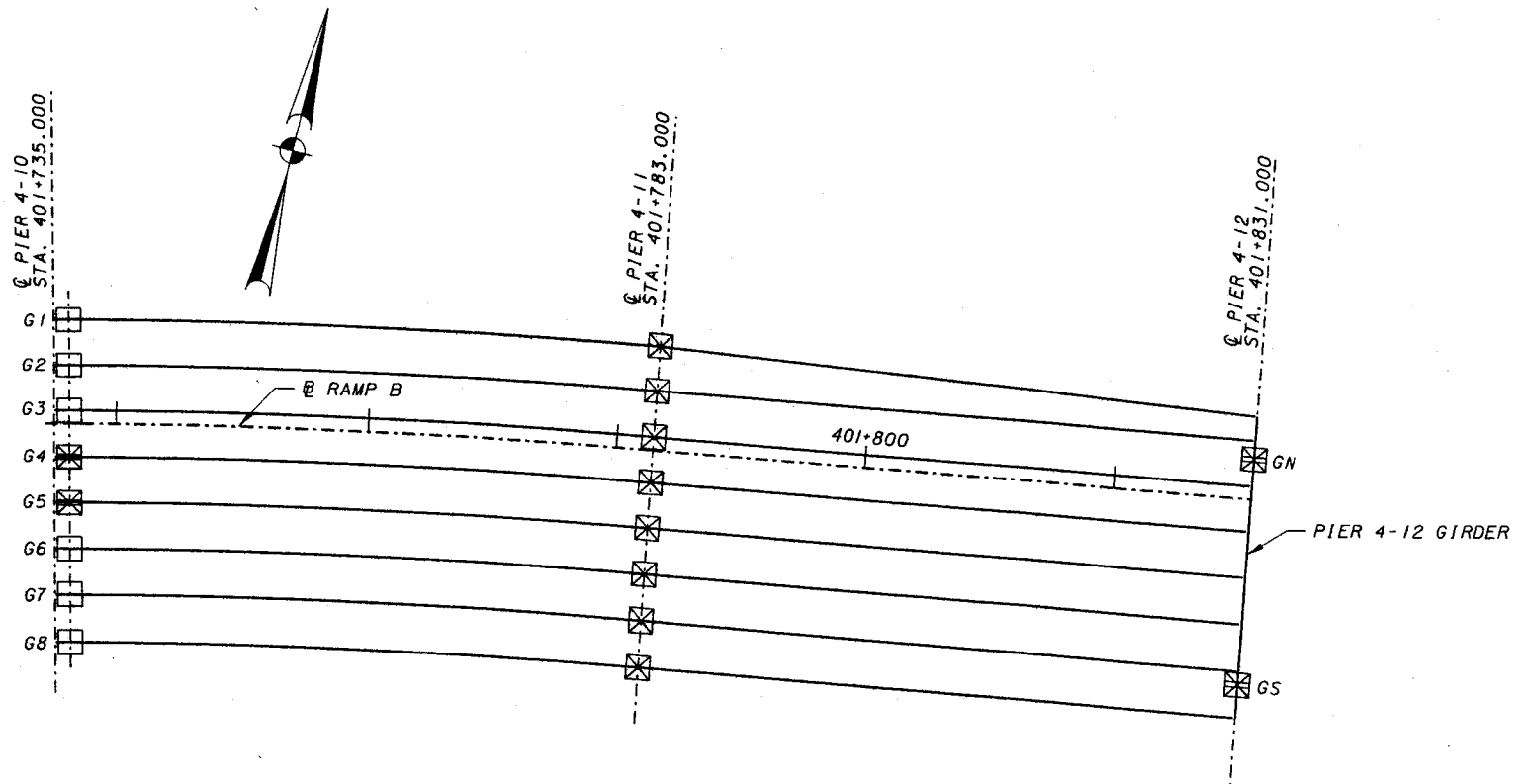


BEARING ORIENTATION

ADDENDUM NO. 1
JULY 12, 1999

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1 <td>ANGLE δ CHANGED <td>7-12-99 <td>AR </td></td></td>	ANGLE δ CHANGED <td>7-12-99 <td>AR </td></td>	7-12-99 <td>AR </td>	AR

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2120
 BRIDGES No. 2 & 4 RAMP B & C
 CITY OF CINCINNATI CONTRACT No. 75X5753
 121/180
 173
 232

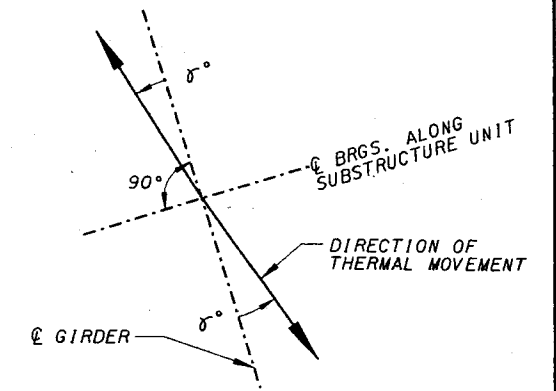


BEARING ARRANGEMENT PLAN - UNIT 4

BEARINGS DESIGN CRITERIA

LOCATION	PIER 4-10							
	G1	G2	G3	G4	G5	G6	G7	G8
BEARING TYPE	EB	EB	EB	GEB	GEB	EB	EB	EB
VERT. LD (KN)	1190	1190	1190	1190	1190	1190	1190	1190
HORIZ. TRANSVERSE LD (KN)	0	0	0	660	660	0	0	0
HORIZ. LONGITUDINAL LD (KN)	0	0	0	0	0	0	0	0
DESIGN MOVEMENT (mm)	37	37	37	37	37	37	37	37
ANGLE δ (DEG.)	0	0	0	0	0	0	0	0
D.L. ROTATION (RAD)	-0.00714	-0.00714	-0.00714	-0.00714	-0.00714	-0.00714	-0.00714	-0.00714
ROADWAY GRADE %	-1.730	-1.730	-1.730	-1.730	-1.730	-1.730	-1.730	-1.730
BEVELED SOLE PL. T (mm)	80	80	80	60	60	80	80	80
FLAT SOLE PL. T (mm)	0	0	0	60	60	0	0	0
MASONRY PL. T (mm)	0	0	0	80	80	0	0	0
ELASTOMERIC PAD T (mm)	99	99	99	99	99	99	99	99
TOTAL BRG. DEPTH (mm)	179	179	179	299	299	179	179	179

LOCATION	PIER 4-11								PIER 4-12 *	
	G1	G2	G3	G4	G5	G6	G7	G8	GN	GS
BEARING TYPE	FB	FB	FB	FB	FB	FB	FB	FB	GEB	GEB
VERT. LD (KN)	3780	3780	3780	3780	3780	3780	3780	3780	4060	4060
HORIZ. TRANSVERSE LD (KN)	550	550	550	550	550	550	550	550	660	660
HORIZ. LONGITUDINAL LD (KN)	870	870	870	870	870	870	870	870	0	0
DESIGN MOVEMENT (mm)	0	0	0	0	0	0	0	0	37	37
ANGLE δ (DEG.)	0	0	0	0	0	0	0	0	90	90
D.L. ROTATION (RAD)	0	0	0	0	0	0	0	0	0.00714 *	0.00714 *
ROADWAY GRADE %	-6.000	-6.000	-6.000	-6.000	-6.000	-6.000	-6.000	-6.000	2.000 *	3.000 *
BEVELED SOLE PL. T (mm)	60	60	60	60	60	60	60	60	60	60
FLAT SOLE PL. T (mm)	40	40	40	40	40	40	40	40	60	60
MASONRY PL. T (mm)	80	80	80	80	80	80	80	80	80	80
ELASTOMERIC PAD T (mm)	99	99	99	99	99	99	99	99	99	99
TOTAL BRG. DEPTH (mm)	279	279	279	279	279	279	279	279	299	299



BEARING ORIENTATION

LEGEND:

- FIXED BEARINGS (FB)
- EXPANSION BEARINGS (EB), NON-GUIDED
- GUIDED EXP. BEARINGS (GEB)

NOTES:

1. SEE SHEETS 3/180 THROUGH 10/180 FOR GENERAL PLAN AND UNIT DESIGNATION NUMBERS.
2. POSITIVE ANGLE δ (SHOWN) IS MEASURED COUNTERCLOCKWISE FROM G GIRDER TO DIRECTION OF THERMAL MOVEMENTS.

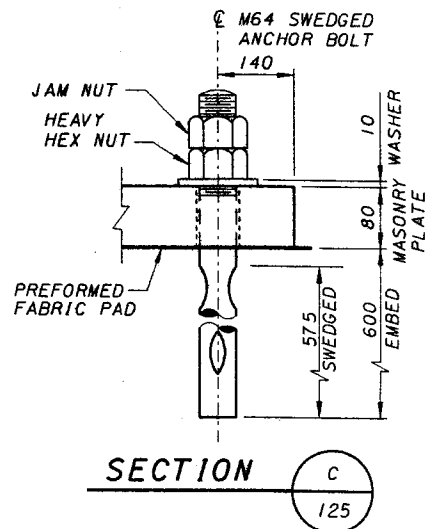
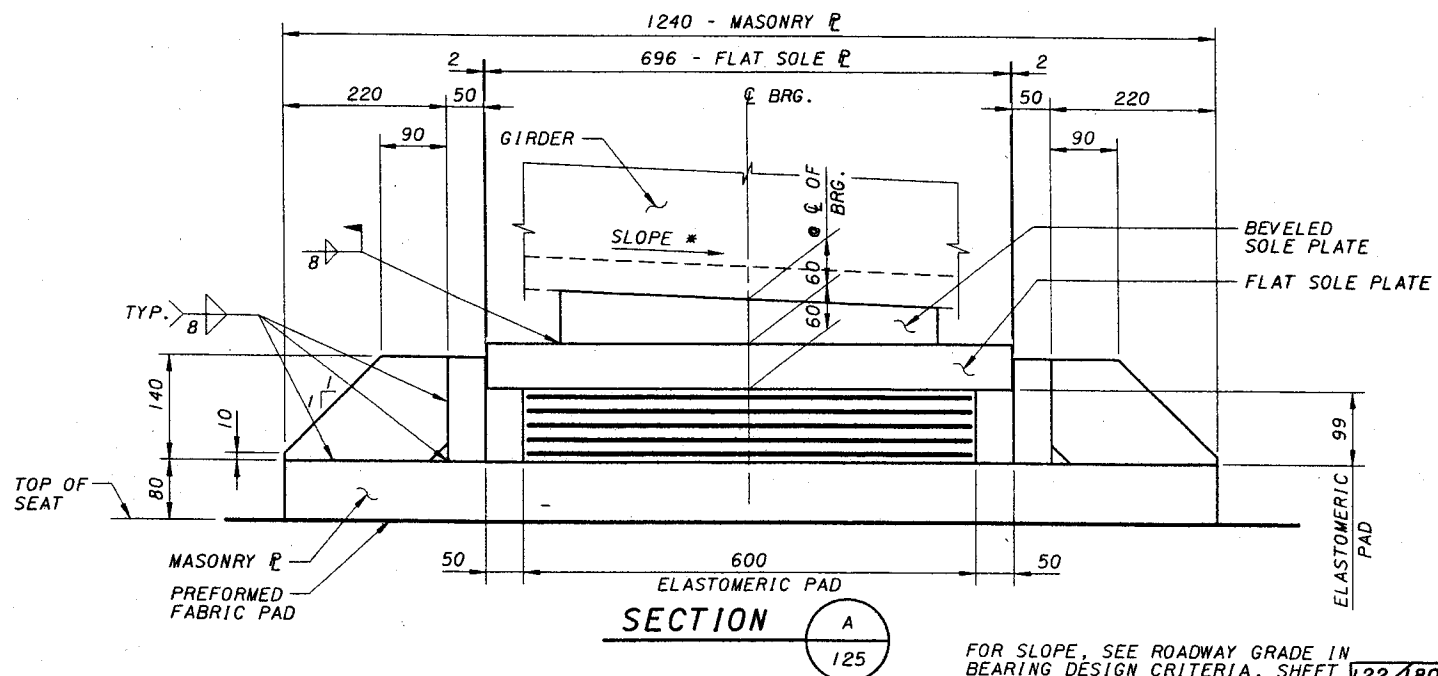
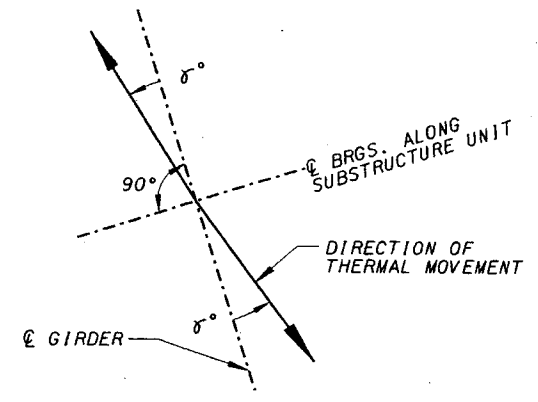
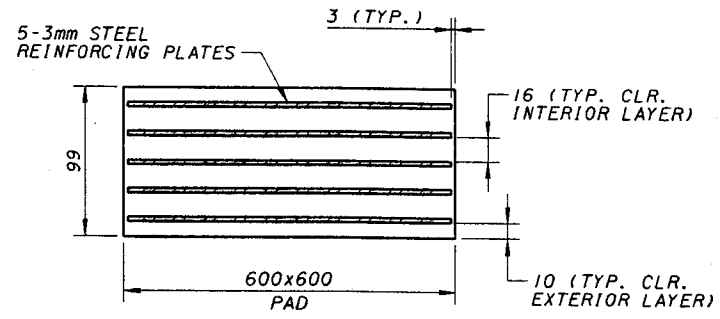
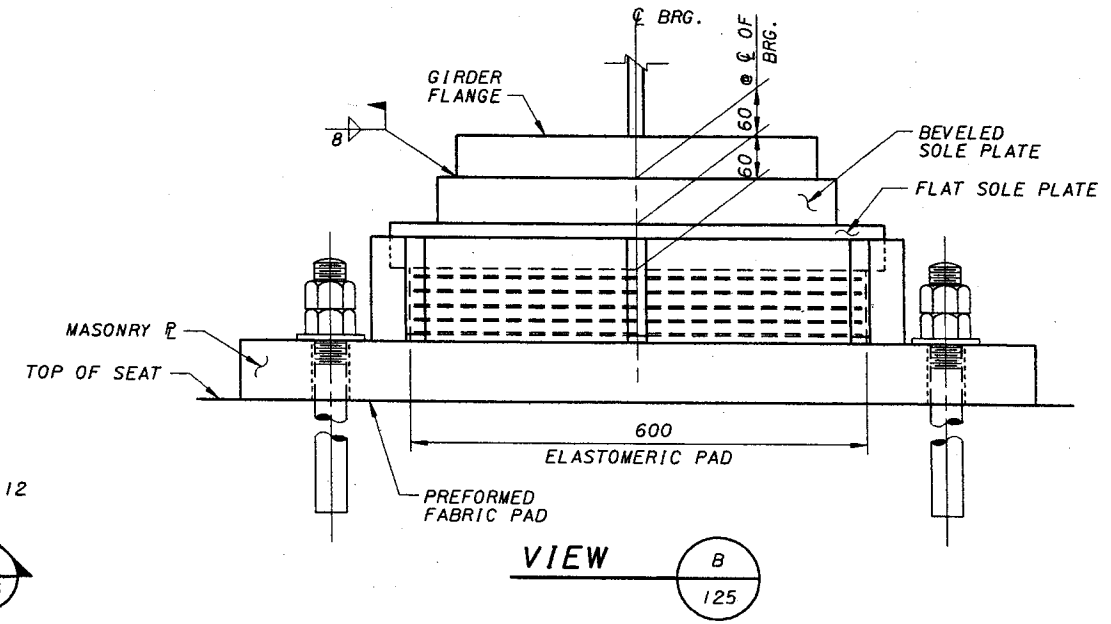
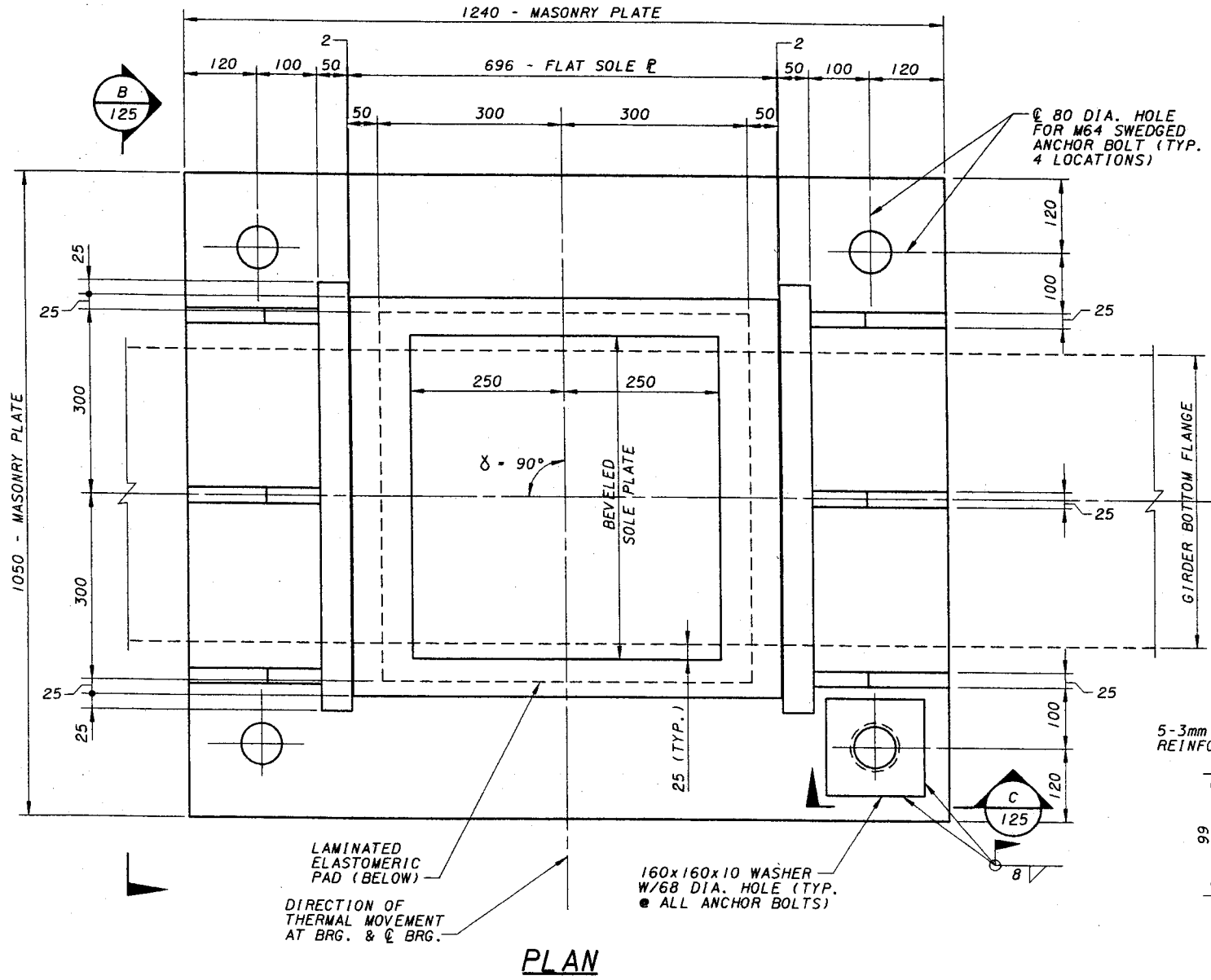
* FOR PIER 4-12, THE ROADWAY GRADE REPRESENTS ROADWAY CROSS SLOPE (ASCENDING FROM GN TO GS), AND DEAD LOAD ROTATION OCCURS ABOUT G PIER 4-12 GIRDER.

\$\$\$times\$

\$\$\$dots\$

\$\$\$prfspec\$\$\$

\$\$\$onspec\$\$\$



- NOTES:**
1. THE ELASTOMER SHALL HAVE A NOMINAL HARDNESS OF 60 ON THE SHORE A SCALE.
 2. THE BEARINGS ARE DESIGNED IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, INTERIMS 1997 AND 1998, DIVISION 1, ARTICLE 14.6.5 (METHOD B). THE BEARINGS SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS FOR STEEL REINFORCED ELASTOMERIC BEARINGS OF ARTICLE 18.7 OF DIVISION 11 OF THE ABOVE SPECIFICATIONS, INTERIM 1997.
 3. FOR BEARINGS AT PIER 4-12, DEAD-LOAD ROTATION OCCURS ABOUT Q PIER 4-12 GIRDER.

GUIDED EXPANSION BEARINGS, PIER 4-12

FOR SLOPE, SEE ROADWAY GRADE IN BEARING DESIGN CRITERIA, SHEET 122/180

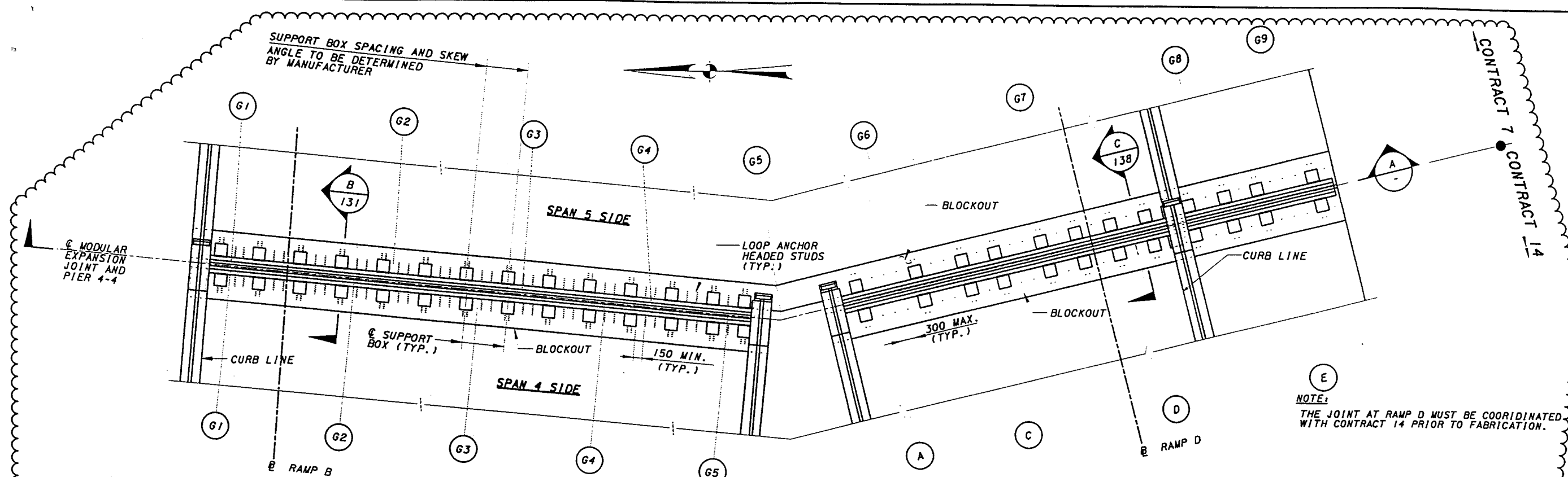
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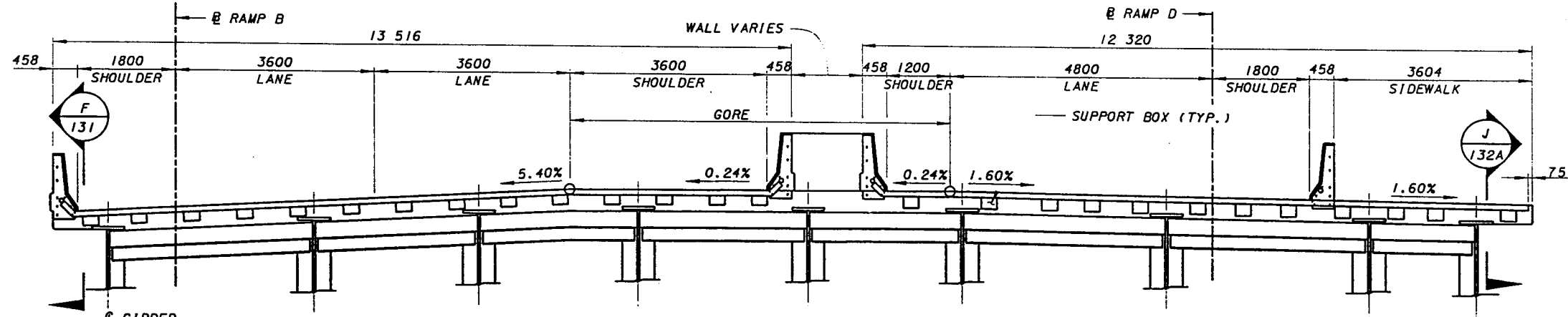
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TYPICAL PLAN AT PIER 4-4



SECTION A

NOTE:
THE JOINT AT RAMP D MUST BE COORDINATED WITH CONTRACT 14 PRIOR TO FABRICATION.

NOTES:

1. THE MODULAR EXPANSION JOINT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIAL PROVISION SECTION 615, MODULAR EXPANSION JOINT SYSTEM.
2. ADJUST DIMENSIONS AND LOCATION OF REBARS TO SUIT ACTUAL SIZE OF MODULAR EXPANSION JOINT PROVIDED.
3. FOR BLOCKOUT REINFORCING, SEE DECK DETAILS.
4. USE STRIP SEAL TYPE NEOPRENE SEALS.
5. GALVANIZE ALL STEEL COMPONENTS OF THE MODULAR EXPANSION JOINT ASSEMBLY INCLUDING BARRIER COVER PLATES.
6. THE MODULAR EXPANSION JOINT ASSEMBLY SHALL BE FACTORY ASSEMBLED AND PRESET TO SYSTEM MID-RANGE, AND SHIPPED WITH DEVICES FOR MAINTAINING AND ADJUSTING THE JOINT IN THE FIELD.
7. THE NEOPRENE SEALS SHALL BE SHOP INSTALLED IN ONE CONTINUOUS PIECE USING SEA INSTALLATION TOOLS AND APPROPRIATE LUBRICANT/ADHESIVE.
8. THE ENDS OF THE NEOPRENE SEALS SHALL BE CAPPED USING A SPONGE PLUG BONDED IN PLACE.
9. DETAILED SHOP DRAWINGS SHALL BE SUBMITTED FOR MODULAR EXPANSION JOINT ASSEMBLY AND SHIPPING DEVICES FOR REVIEW BY THE ENGINEER.
10. MODULAR JOINT SHALL BE MANUFACTURED TO FIT ROADWAY CROSS SLOPES AND GRADES INDICATED ON THE DRAWINGS, AND TO RUN CONTINUOUSLY BETWEEN LIMITS AS SHOWN. ALL SHOP SPLICES TO BE WELDED AND ALL SURFACES SHALL BE GROUND SMOOTH.
11. ALL FLAT HEAD COUNTERSUNK SCREWS SHALL CONFORM TO ASTM F738M TYPE 304 (STAINLESS STEEL).
12. ALL STEEL SHALL BE IN ACCORDANCE WITH AASHTO M270, GRADE 345W.

	MAXIMUM TOTAL MOVEMENT (mm)	
	LONGITUDINAL	TRANSVERSE
PIER 4-4	112	23
PIER 4-6	114	0
PIER 5	156	0
PIER 4-10	109	0

MAXIMUM TOTAL MOVEMENT INCLUDES THERMAL EXPANSION + MOVEMENT DUE TO GIRDER END ROTATION.

REVISION NO.	DESCRIPTION	DATE	BY
6	SIDEWALK RAILING AND BEAM LOCATION CONT. 14	2-25-00	CB8

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
512 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

REVIEWED
DATE
DRAWN
CHECKED
DATE
STRUCTURE FILE NUMBER
3103412

DECK JOINTS - 1
BRIDGES NO. 4 & 5
RAMPS B & D

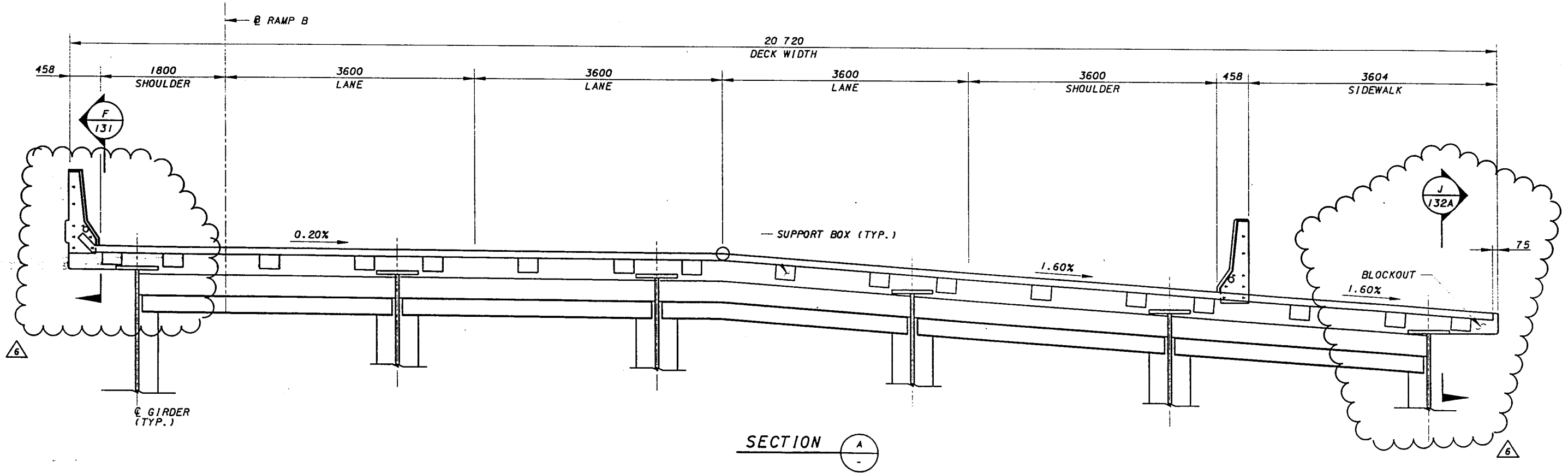
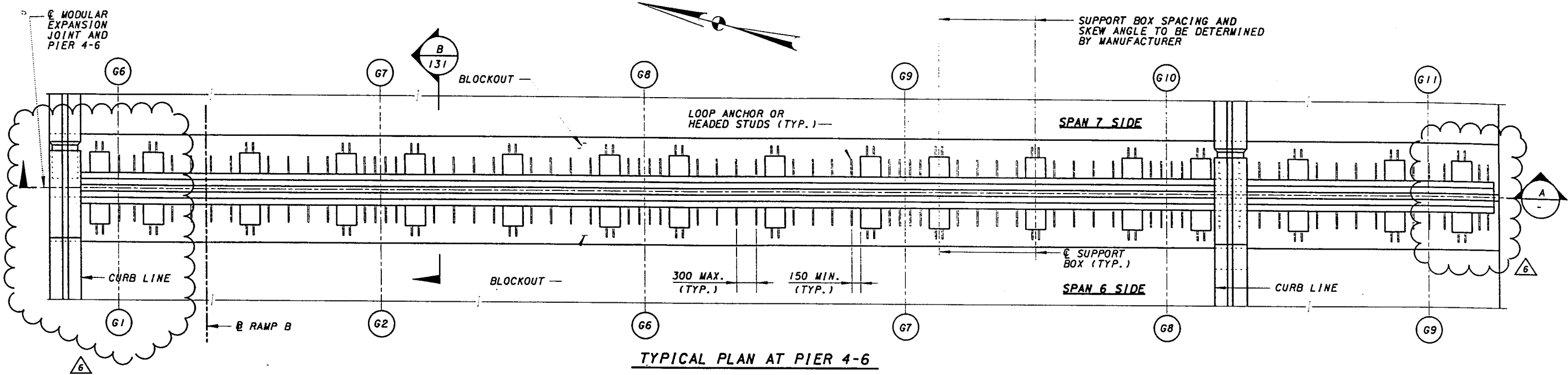
CITY OF CINCINNATI
CONTRACT No. 75X5753

127/180

REVISION NO. 6
FEB 25, 2000

179
232

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 2/25/00
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 C:\Users\fw\Documents\10702.dgn



REVISION NO.	DESCRIPTION	DATE	BY
REVISION 5	SIDEWALK RAILING	2-25-00	CBS
DESIGNED JWH	DATE	DESIGN AGENCY	
CHECKED	REVIEWED	PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720	
DRAWN BZX	STRUCTURE FILE NUMBER		
REVISION 6	3/03/12		

DECK JOINTS - 2
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

128/180
 180
 232

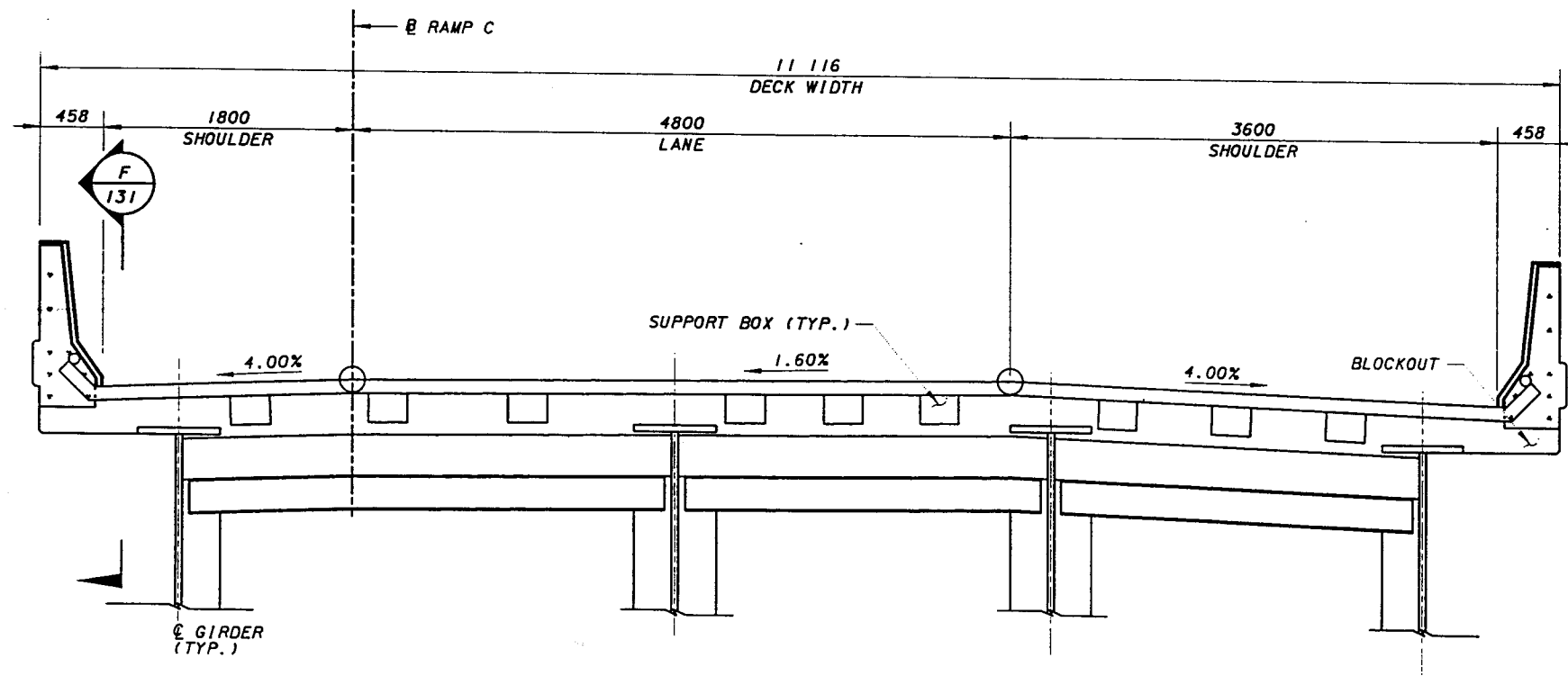
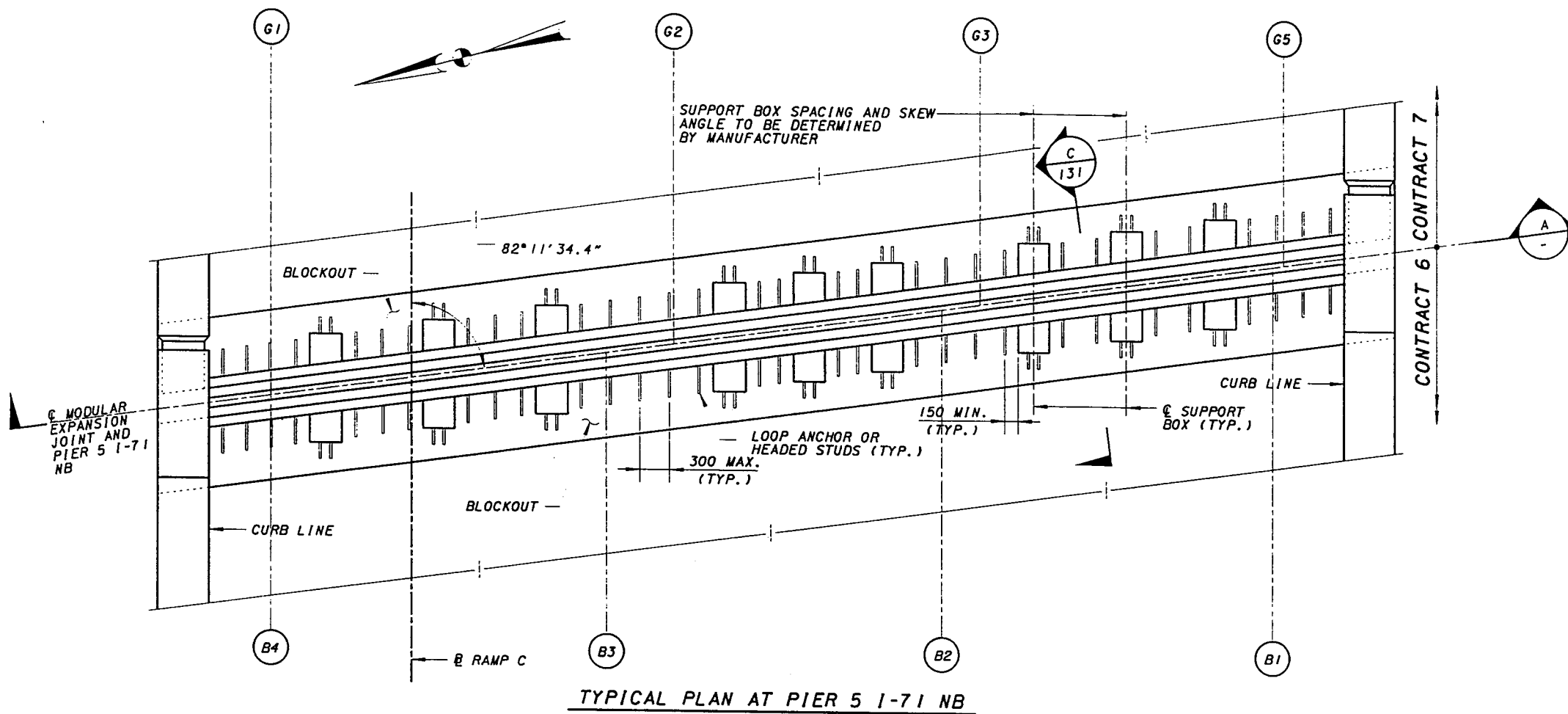
REVISION NO. 6
 FEB 25, 2000

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2/25/00

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SECTION A

- NOTES:
1. THIS JOINT TO REPLACE THE STRIP SEAL JOINT DETAILED IN CONTRACT 6. DETAILS MUST BE COORDINATED WITH CONTRACT 6 PRIOR TO FABRICATION.
 2. FOR REBAR IN SLAB OVERHANG BLOCKOUT SEE SECTION F/130 SHT 131A



REVISION NO.	DESCRIPTION	DATE	BY
APPENDUM 6	NOTES	2-25-00	CBS

DESIGN AGENCY
PB
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

REVIEWED DATE
 DRAWN
 CHECKED
 STRUCTURE FILE NUMBER
 3103412

DECK JOINTS - 4
 BRIDGE NO. 2
 RAMP C

CITY OF CINCINNATI
 CONTRACT No. 75X5753

130/180

REVISION NO. 6
 FEB 25, 2000

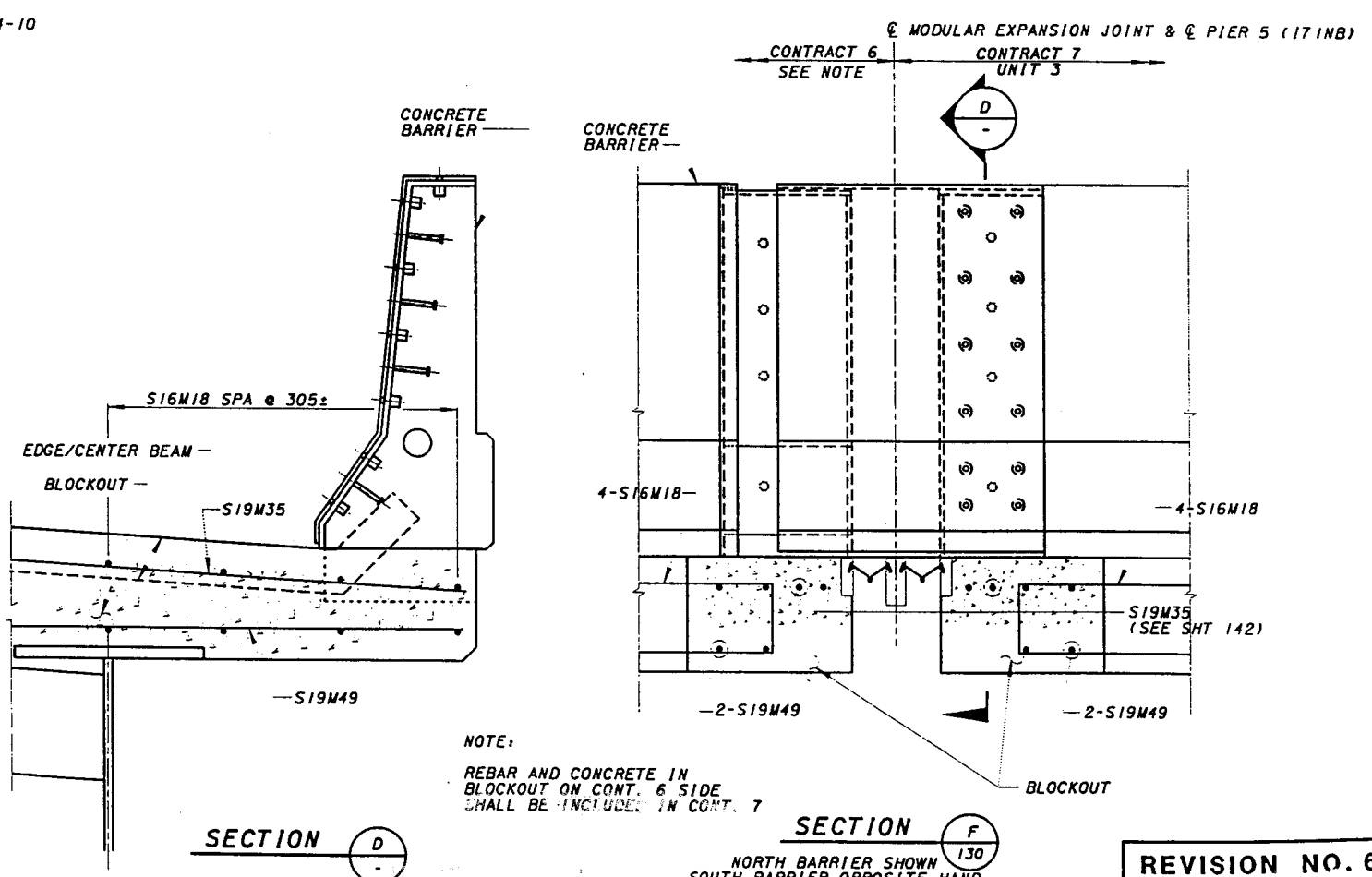
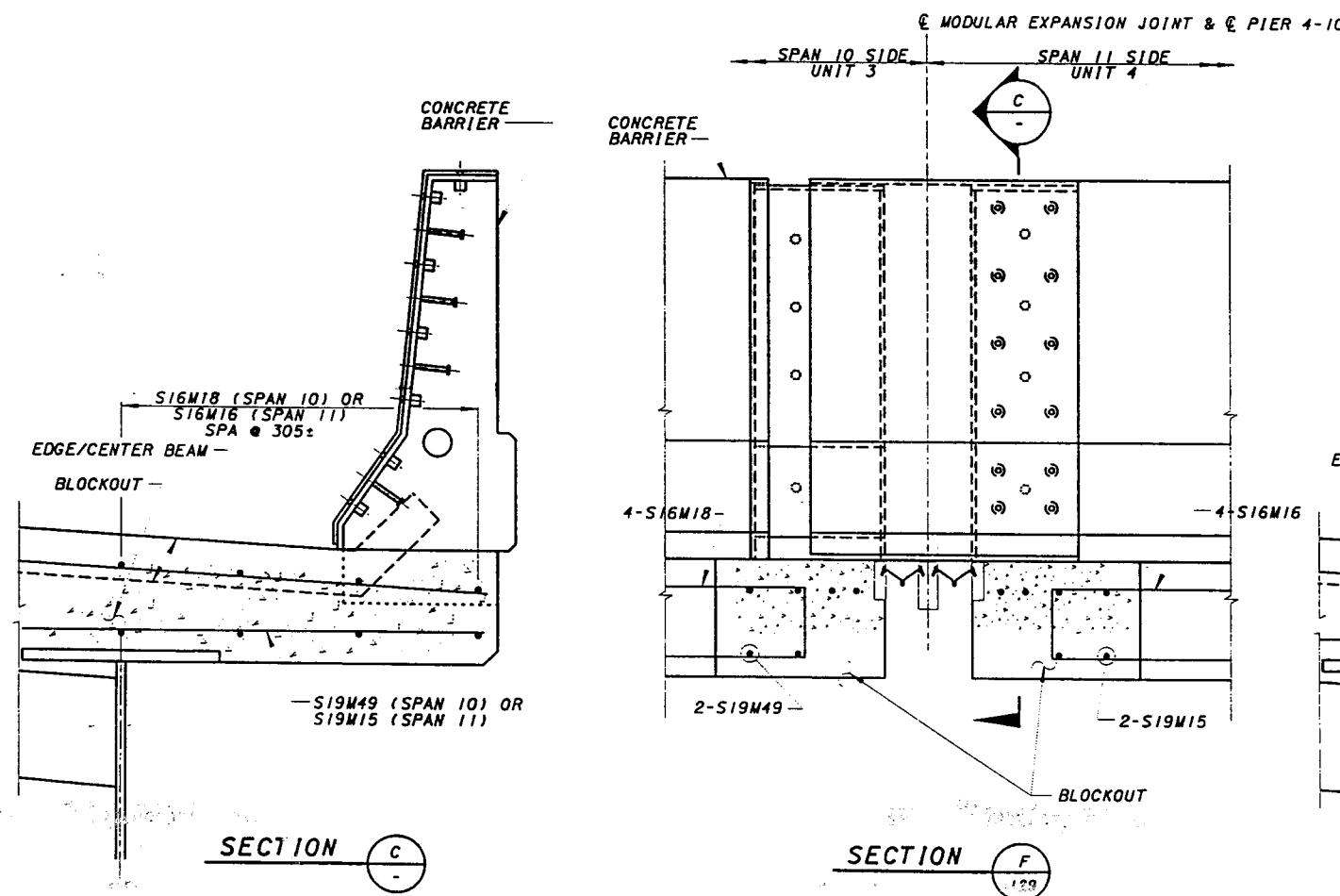
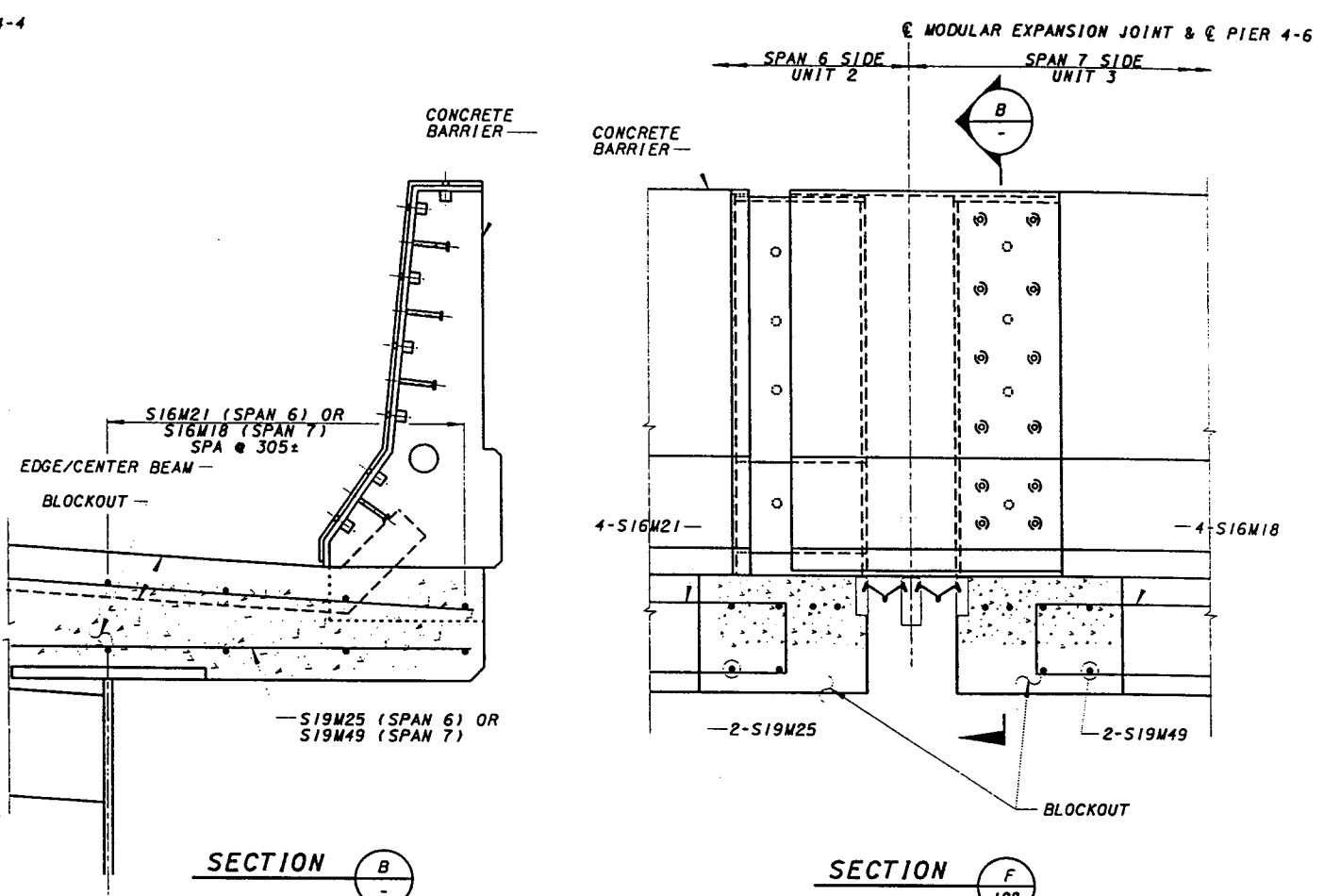
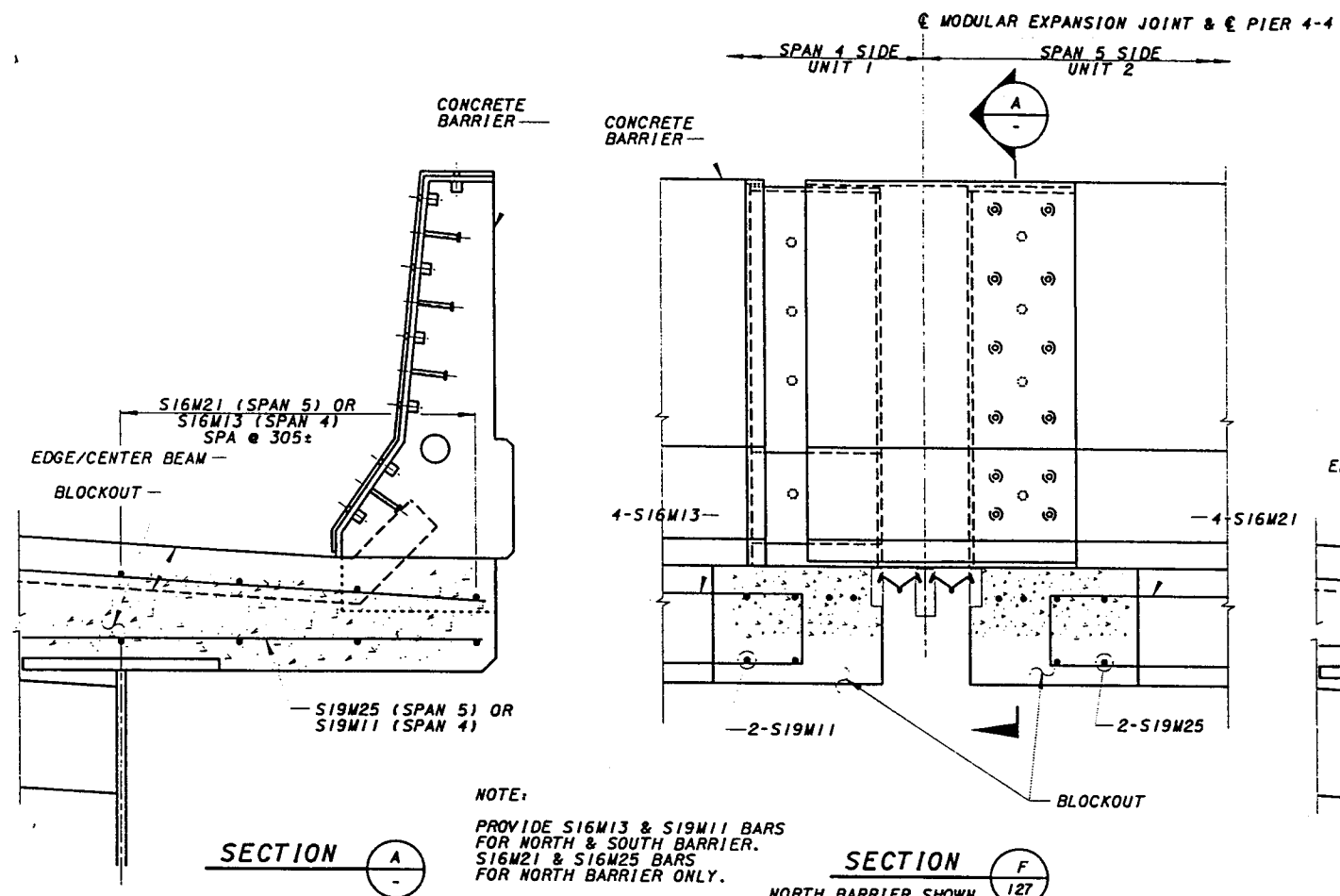
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2/25/00

2/25/00

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REVISION NO.	DESCRIPTION	DATE	BY
6	NEW SHEET	2-25-00	CBS

DESIGN AGENCY
PB
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

DECK JOINTS - 6
 BRIDGES NO. 2, 4 & 5
 RAMPS B, C & D

CITY OF CINCINNATI
 CONTRACT NO. 75X5753

131/180
 A

183A
 232

REVISION NO. 6
 FEB 25, 2000

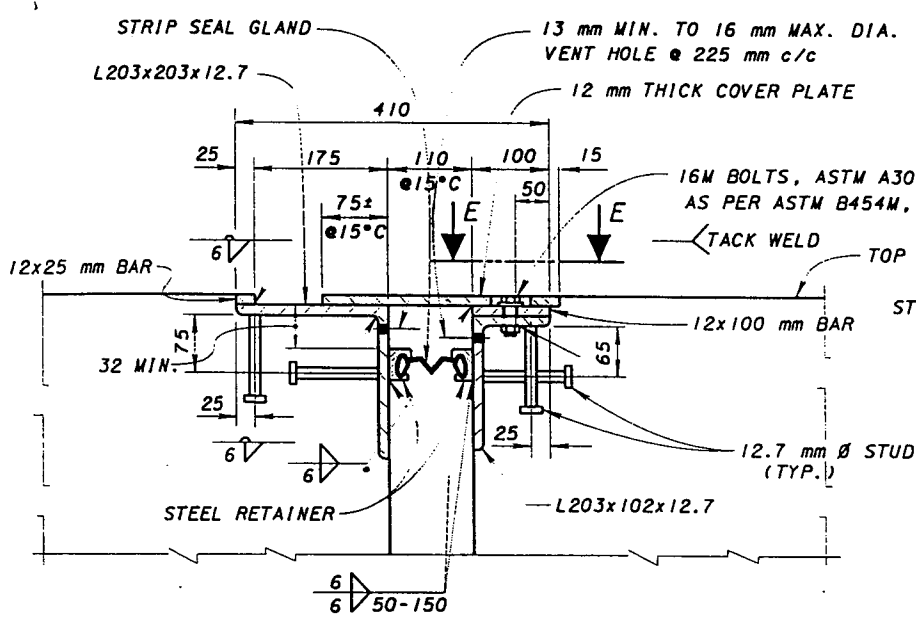
SECTION F
 130
 NORTH BARRIER SHOWN
 SOUTH BARRIER OPPOSITE HAND

FILED FEB 25 10 56 AM 2000

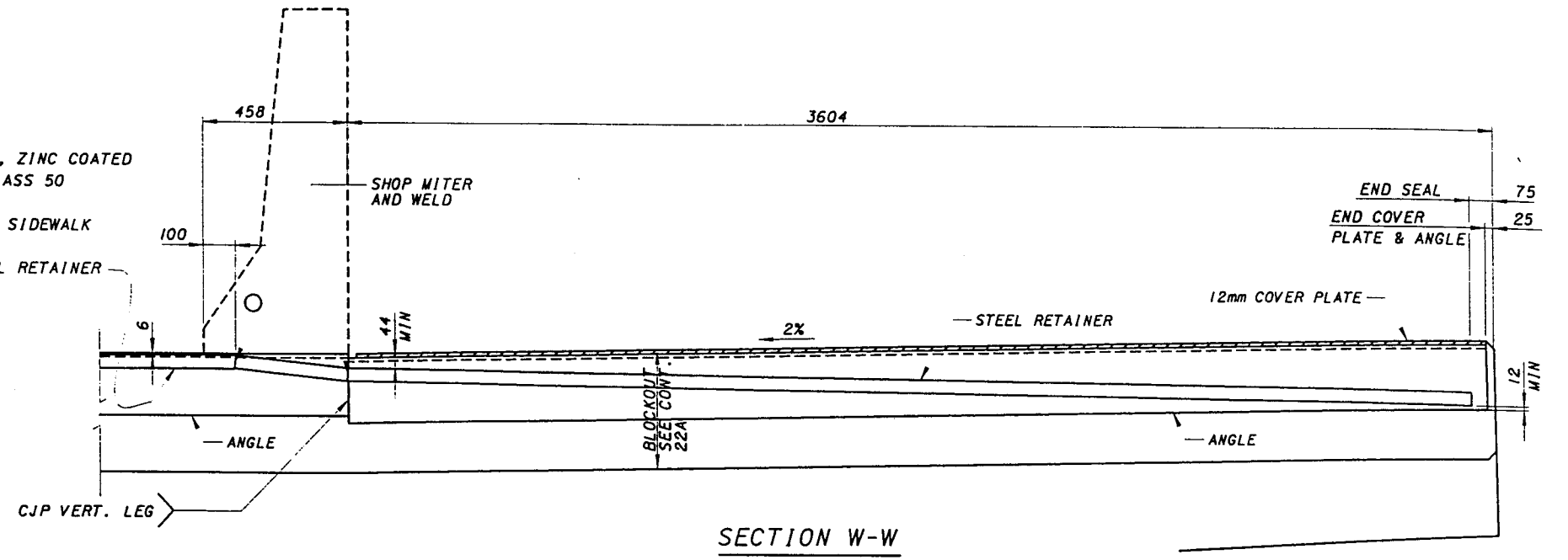
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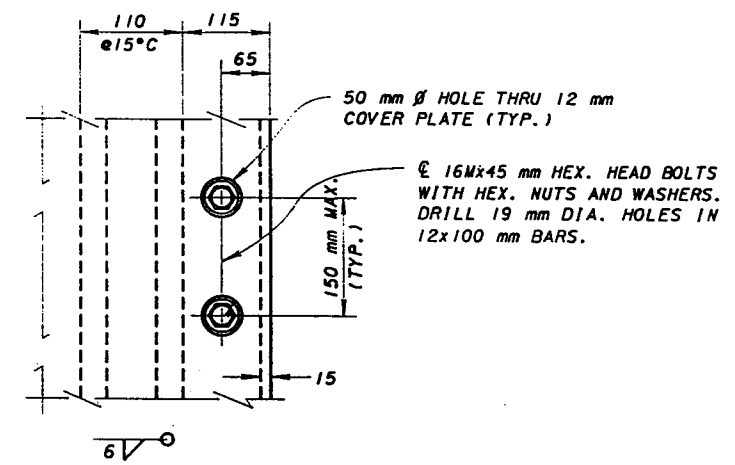
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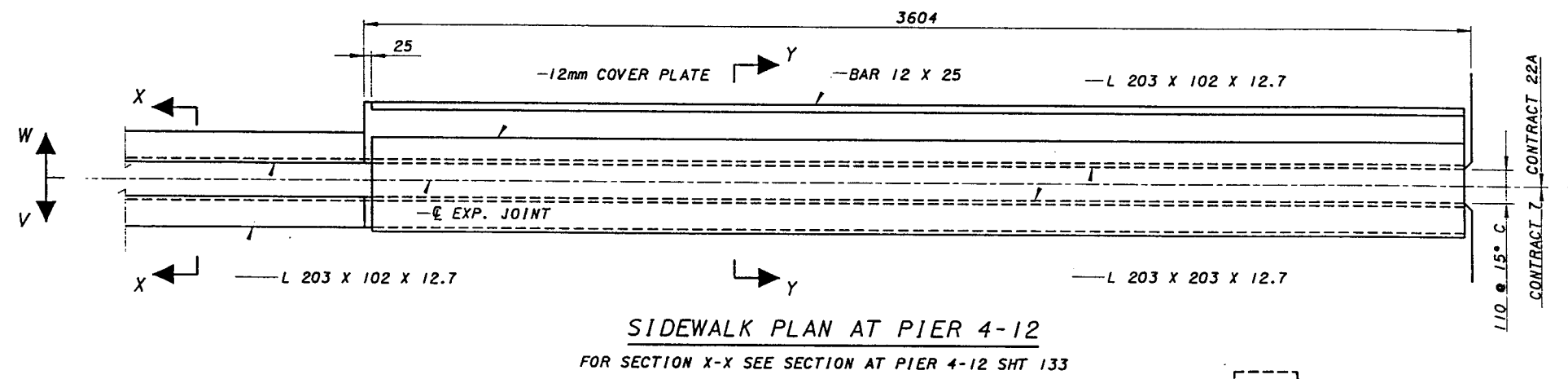
SECTION Y-Y



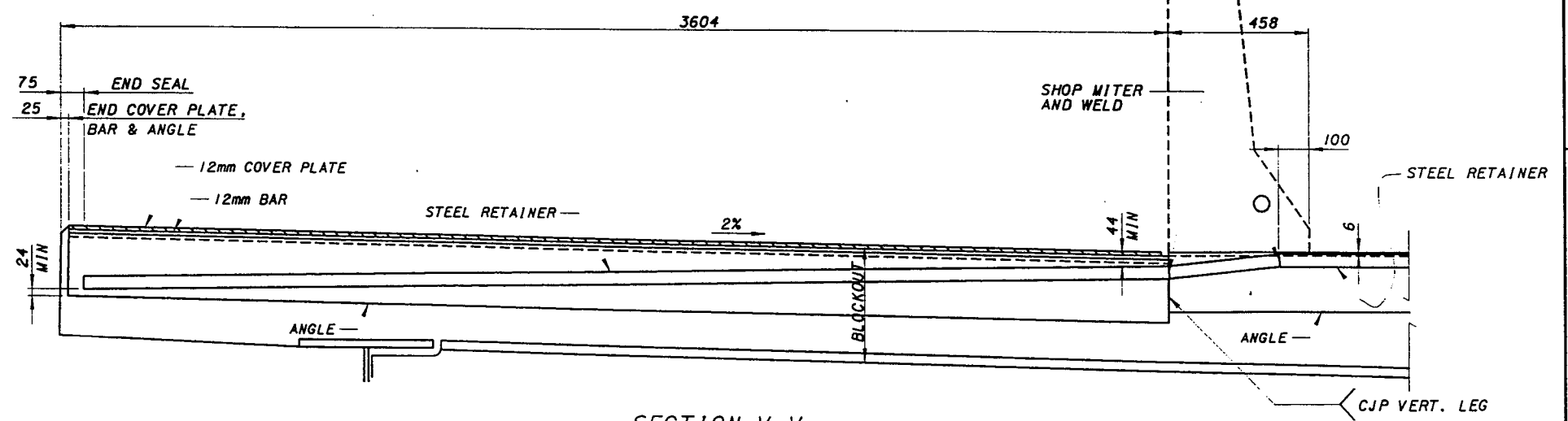
SECTION W-W



VIEW E-E



SIDEWALK PLAN AT PIER 4-12
FOR SECTION X-X SEE SECTION AT PIER 4-12 SHT 133



SECTION V-V

REVISION NO.	DESCRIPTION	DATE	BY
6	NEW DRAWING	2-25-00	LAE

DESIGNED: MJD
 CHECKED: MCG
 DRAWN: MCG
 REVIEWED: MCG

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

STRUCTURE FILE NUMBER: 3103412

DECK JOINTS - 7
 BRIDGES NO. 2 & 4
 RAMPS B & C

REVISION NO. 6
FEB. 25, 2000

132/180
184
232

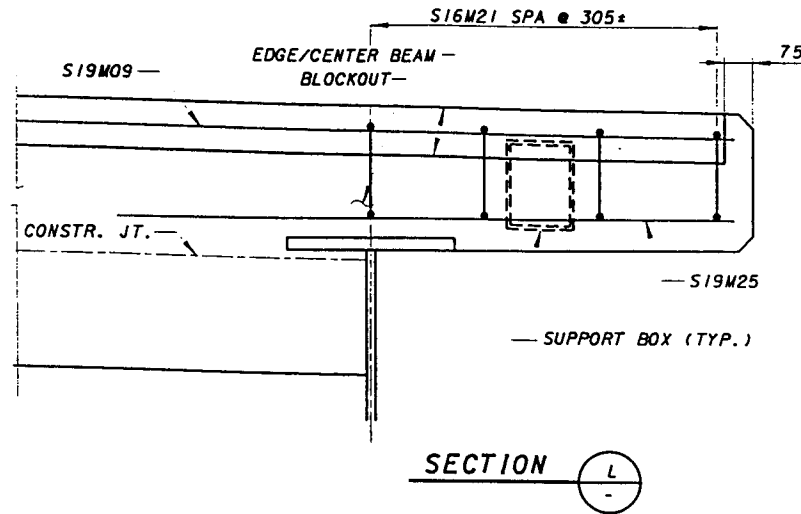
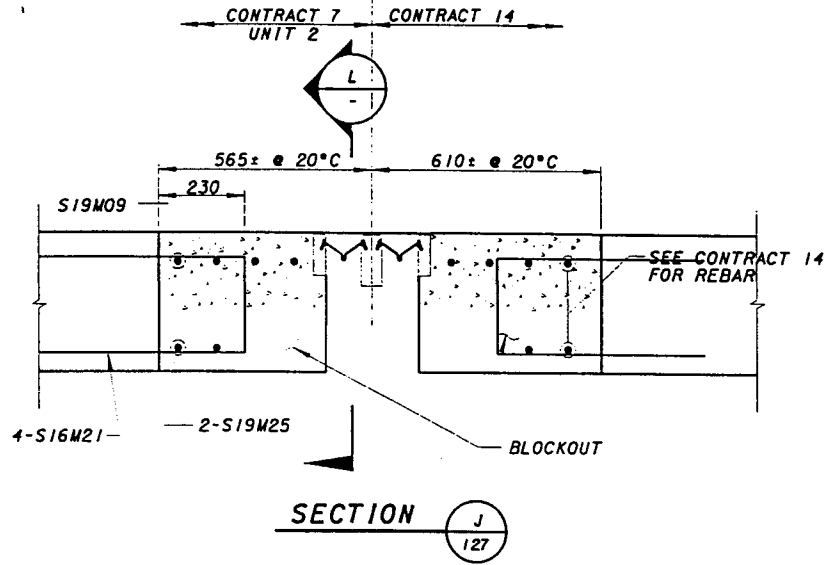
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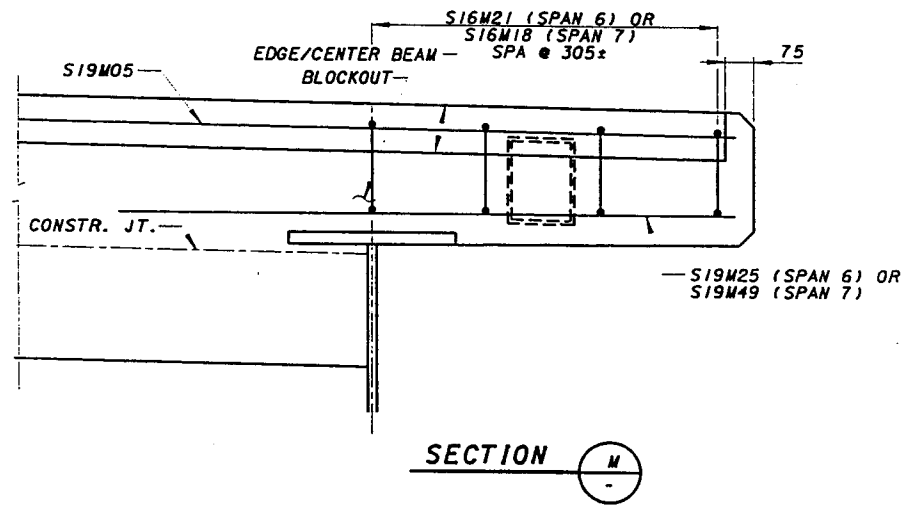
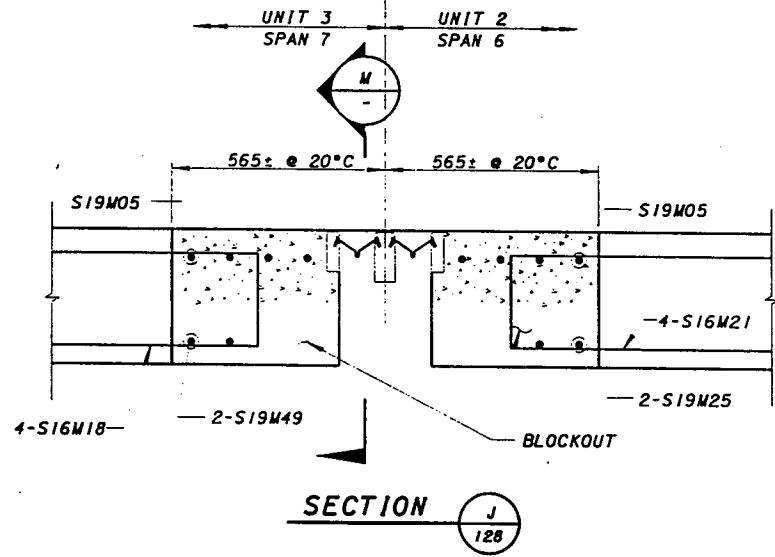
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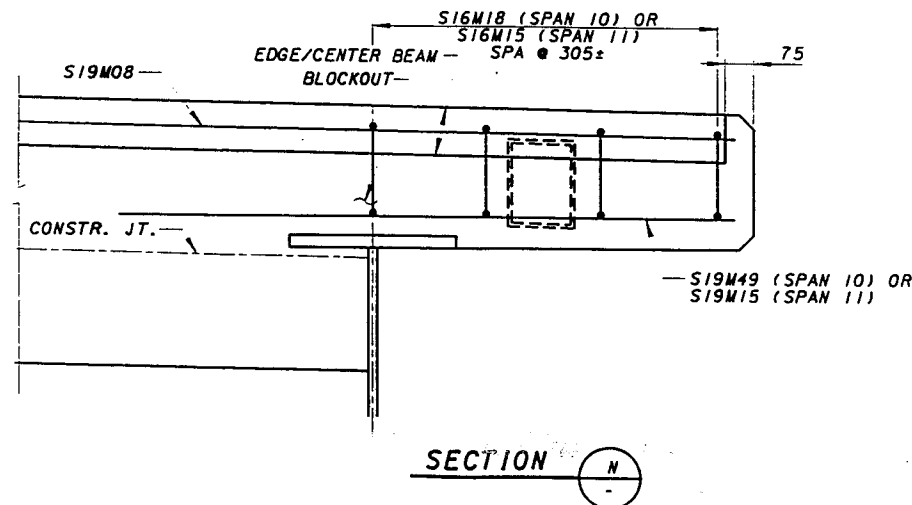
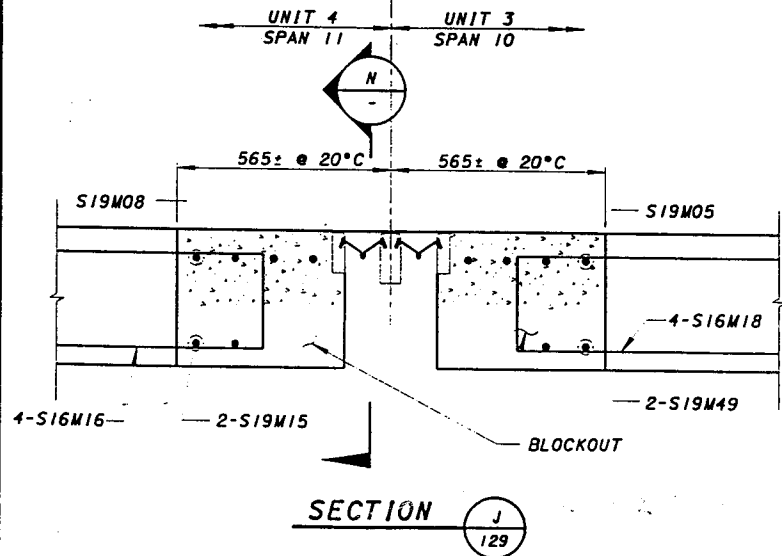
€ MODULAR EXPANSION JOINT & € PIER 4-4



€ MODULAR EXPANSION JOINT & € PIER 4-6



€ MODULAR EXPANSION JOINT & € PIER 4-10



REVISION NO.	DESCRIPTION	DATE	BY
6	NEW SHEET	2-25-00	LAE

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

REVIEWED DATE
 DRAWN LAE
 CHECKED DMB
 STRUCTURE FILE NUMBER
 3103412

DECK JOINTS - 8
 BRIDGE NO. 4
 RAMPS B & D

CITY OF CINCINNATI
 CONTRACT No. 75X5753

132
 A/180

REVISION NO. 6
 FEB 25, 2000

184A
 232

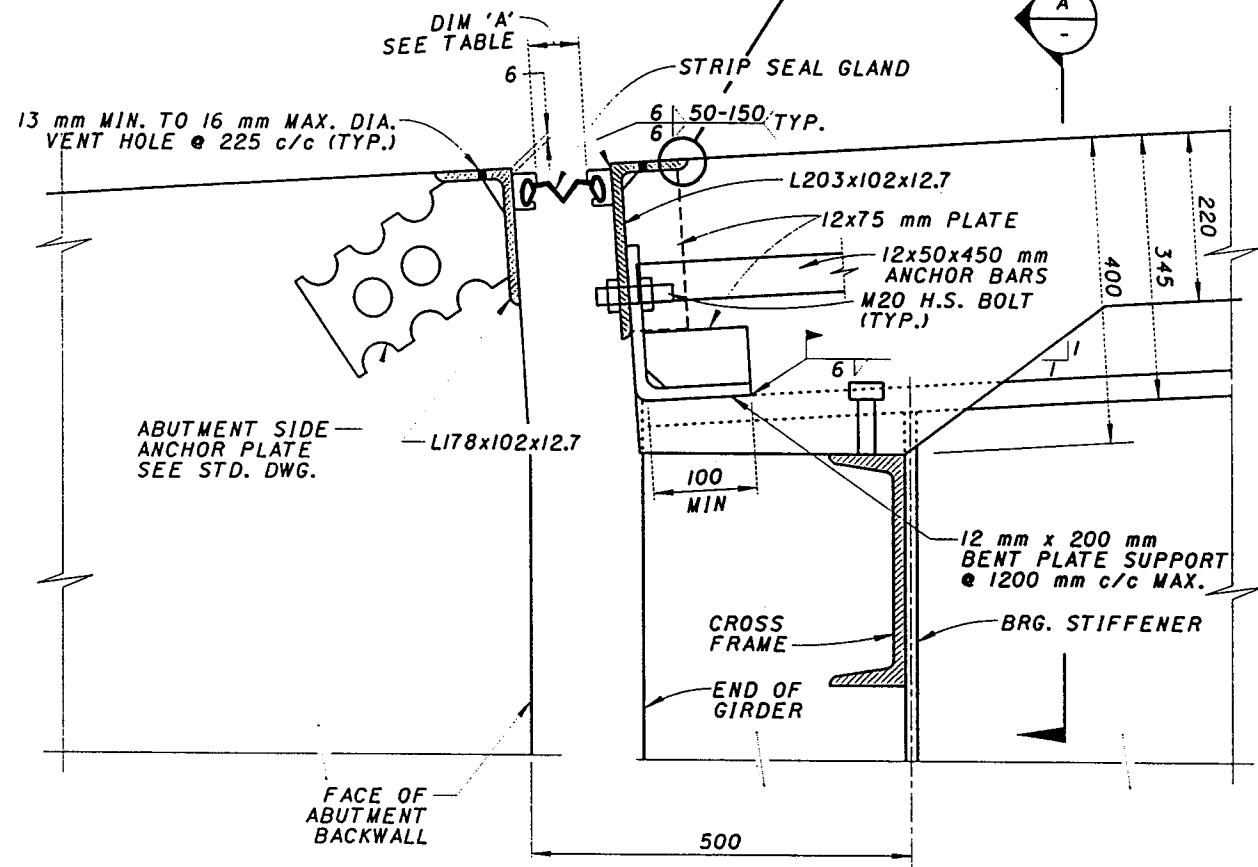
2/25/00

2/25/00

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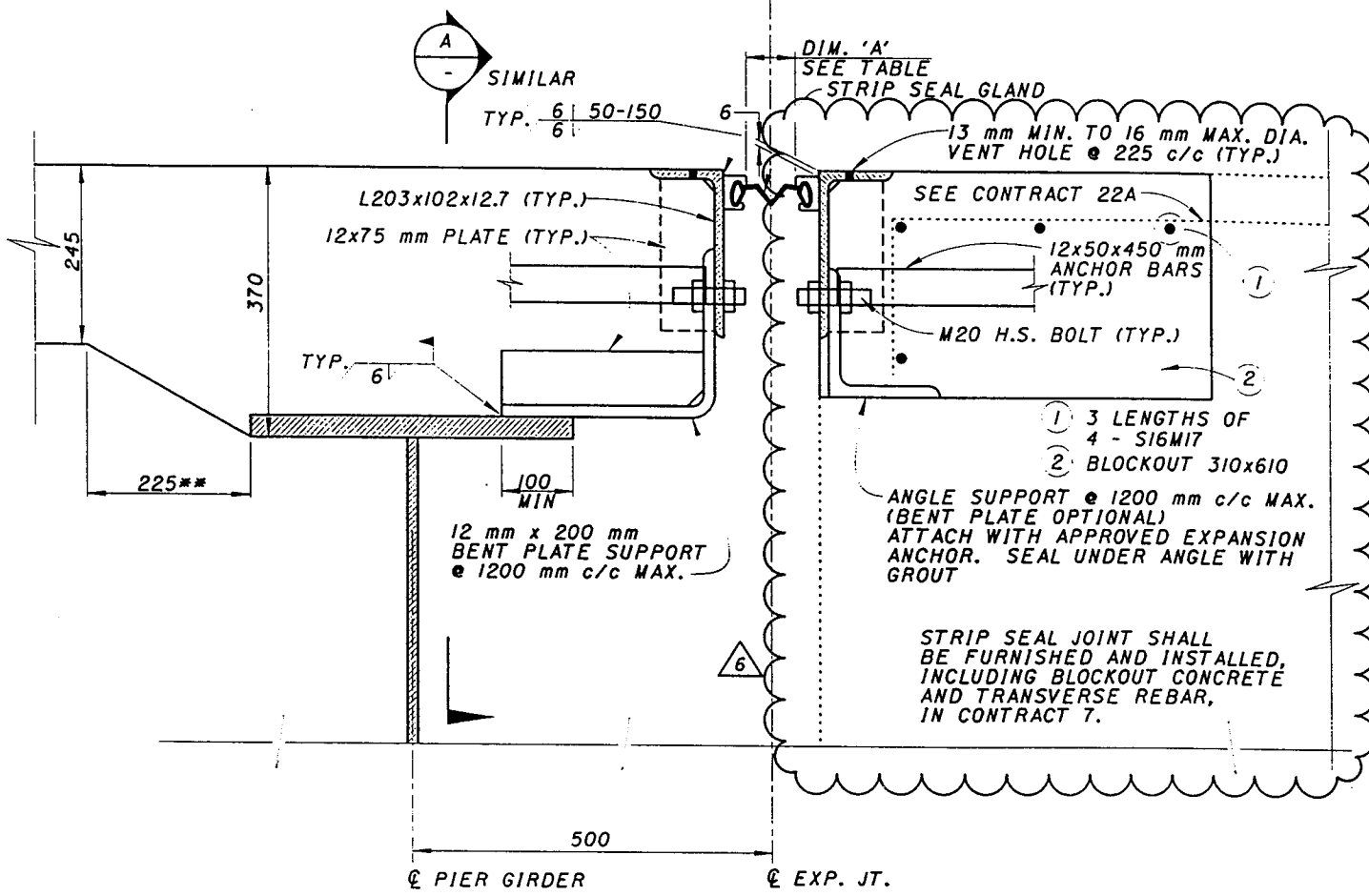
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FINISH CONCRETE SURFACE
EITHER FLUSH WITH OR A MAX.
OF 6 mm ABOVE JOINT ARMOR
(TYP.)



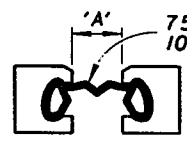
SECTION AT REAR ABUTMENT

CONTRACT 7 CONTRACT 22A



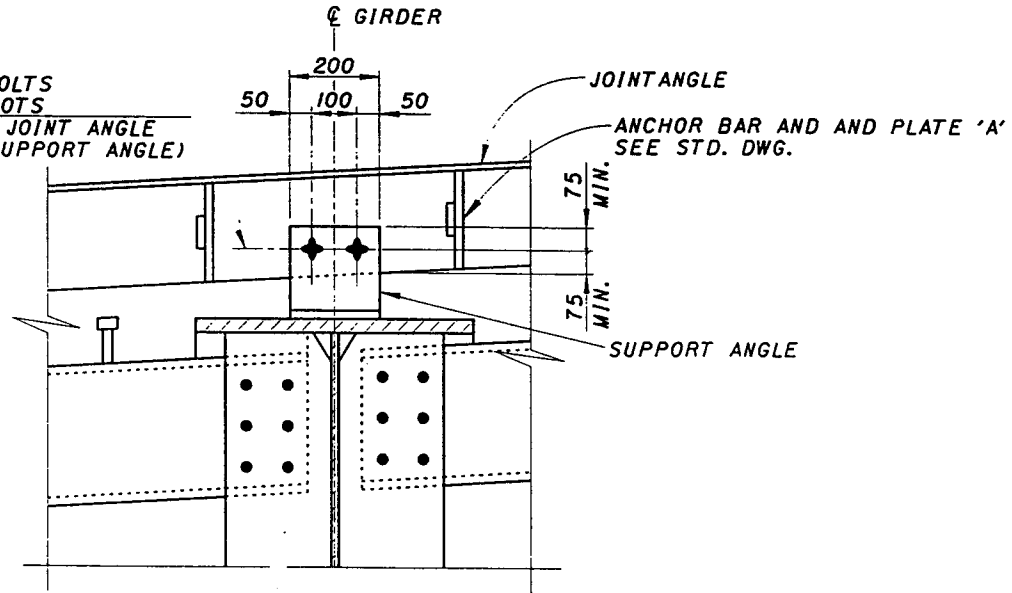
SECTION AT PIER 4-12

STRIP SEAL DIM. 'A' (SEE STD. DWG. EJ-4-87M)								
	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C
	32°F	41°F	50°F	59°F	68°F	77°F	86°F	95°F
REAR ABUTMENT	74	68	62	56	50	44	38	32
PIER 4-12	64	58	52	46	40	35	30	25



75 mm STRIP SEAL GLAND @ PIER 4-12
100 mm STRIP SEAL GLAND @ REAR ABUTMENT

M20 H.S. BOLTS
IN LONG SLOTS
(HORIZ. IN JOINT ANGLE
VERT. IN SUPPORT ANGLE)



SECTION A

JOINT NOTES:

1. THE JOINT ASSEMBLY SHALL BE PLACED SO THAT THE 203x102x12.7 mm ANGLE REMAIN PARALLEL TO EACH OTHER AND PERPENDICULAR TO THE ROADWAY GRADIENT.
2. DURING INSTALLATION OF THE SUPPORT/ARMOR FOR THE SUPERSTRUCTURE SIDE OF THE EXPANSION JOINT, THE SEATING OF BEAMS ON BEARINGS SHALL BE CAREFULLY OBSERVED TO ASSURE THAT POSITIVE BEARING IS MAINTAINED.
3. FOR ADDITIONAL JOINT DETAILS, NOTES AND INSTALLATION DETAILS NOT SHOWN, SEE STD. DWG. EXJ-4-87M.

REVISION NO.	DESCRIPTION	DATE	BY
6	ADDED NOTE	2-25-00	MJD

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

REVIEWED
DATE
3/03/02

DECK JOINTS - 9
BRIDGES NO. 2 & 4
RAMPS B & C

CITY OF CINCINNATI
CONTRACT No. 75X5753

133/180

185
232

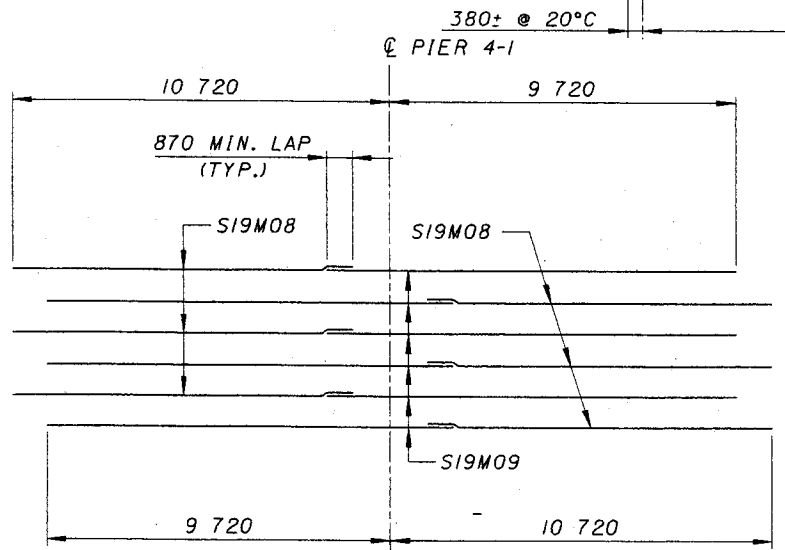
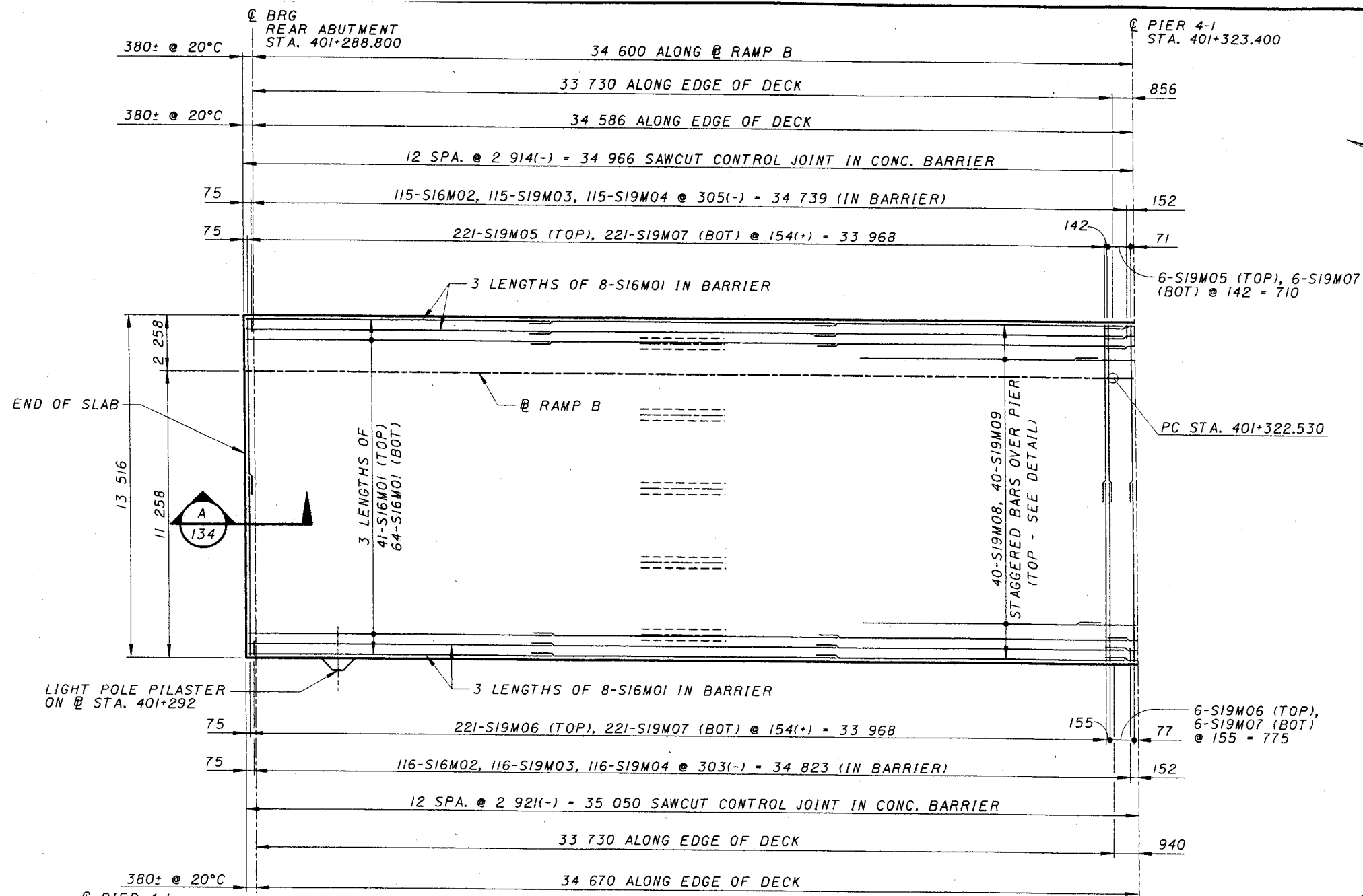
REVISION NO. 6
FEB. 25, 2000

Thu Jun 17 14:25:01 1999

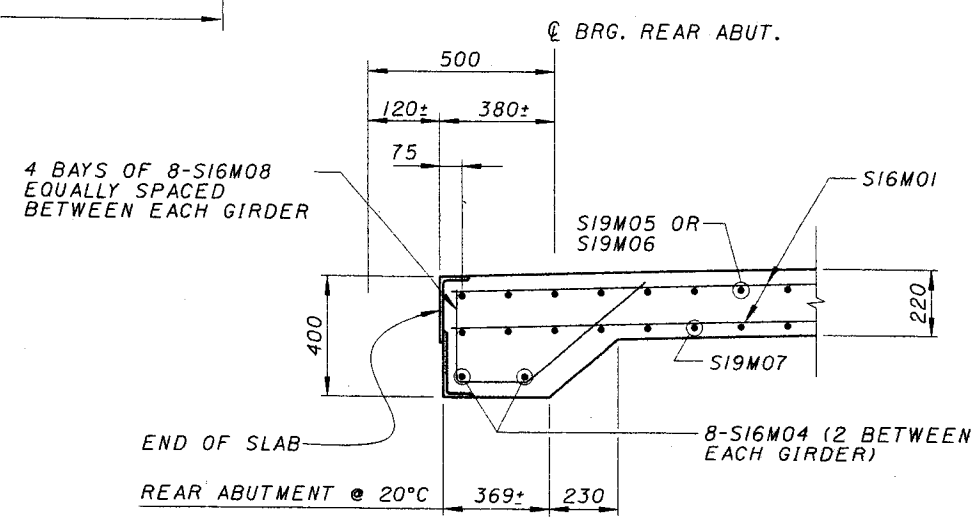
6/17/99

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STAGGERED BARS OVER PIER 4-1



SECTION A 134

- NOTES:**
1. SEE SHEET 131/180 FOR EXPANSION JOINT DETAILS.
 2. DIMENSIONS NOTED AS ± ARE APPROXIMATE AT 20° C. EXACT DIMENSION IS BASED ON STEEL RETAINER FURNISHED BY STRIP SEAL MANUFACTURER.
 3. TRANSVERSE BARS SPLICE LENGTH SHALL BE 1130mm MINIMUM (BOTT.) AND 870mm MINIMUM (TOP).
 4. LONGITUDINAL BARS SPLICE LENGTH SHALL BE 730mm MINIMUM UNLESS NOTED.
 5. TRANSVERSE BARS SHALL BE PLACED 90° TO TANGENT @ OR RADIAL TO CURVED @ UNLESS NOTED.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

PB

DATE: 5-28-99
 REVIEWED: EB
 STRUCTURE FILE NUMBER: 3103412

DRAWN: MCG
 CHECKED: DMB

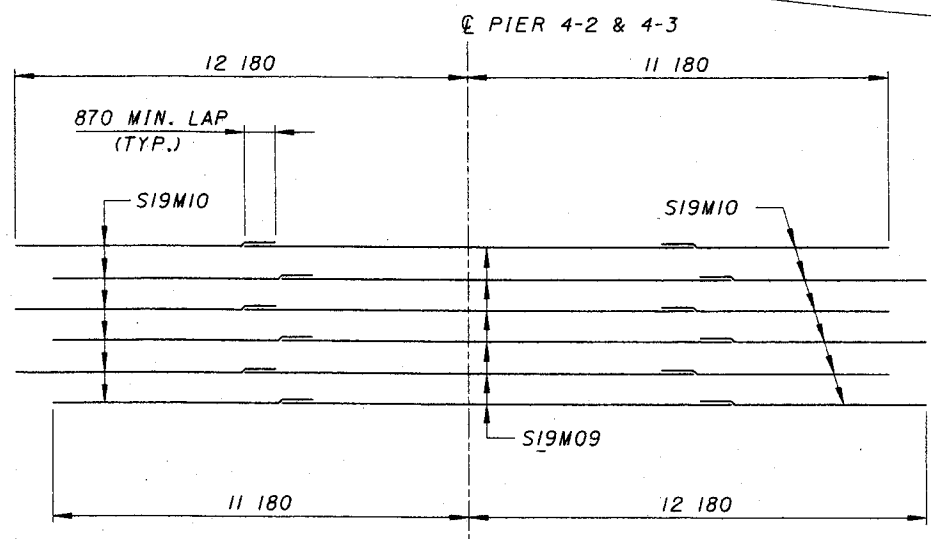
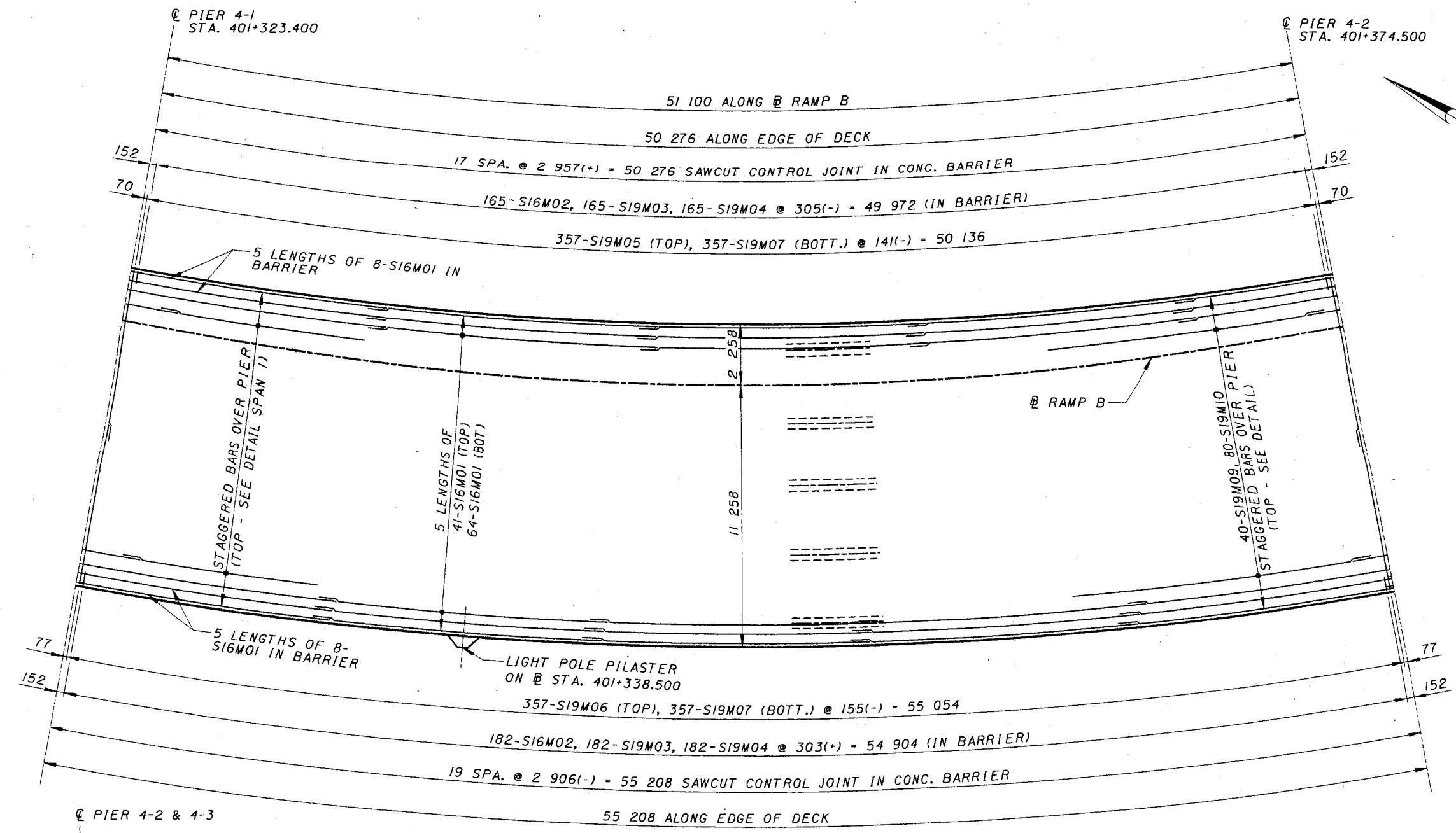
DESIGNED: MJD
 CHECKED: DMB

DECK SLAB PLAN - 1
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

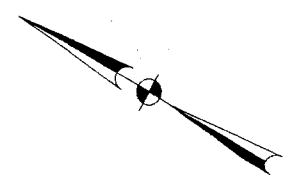
134/180
 186
 232

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STAGGERED BARS OVER PIERS 4-2 & 4-3

PLAN - SPAN 2



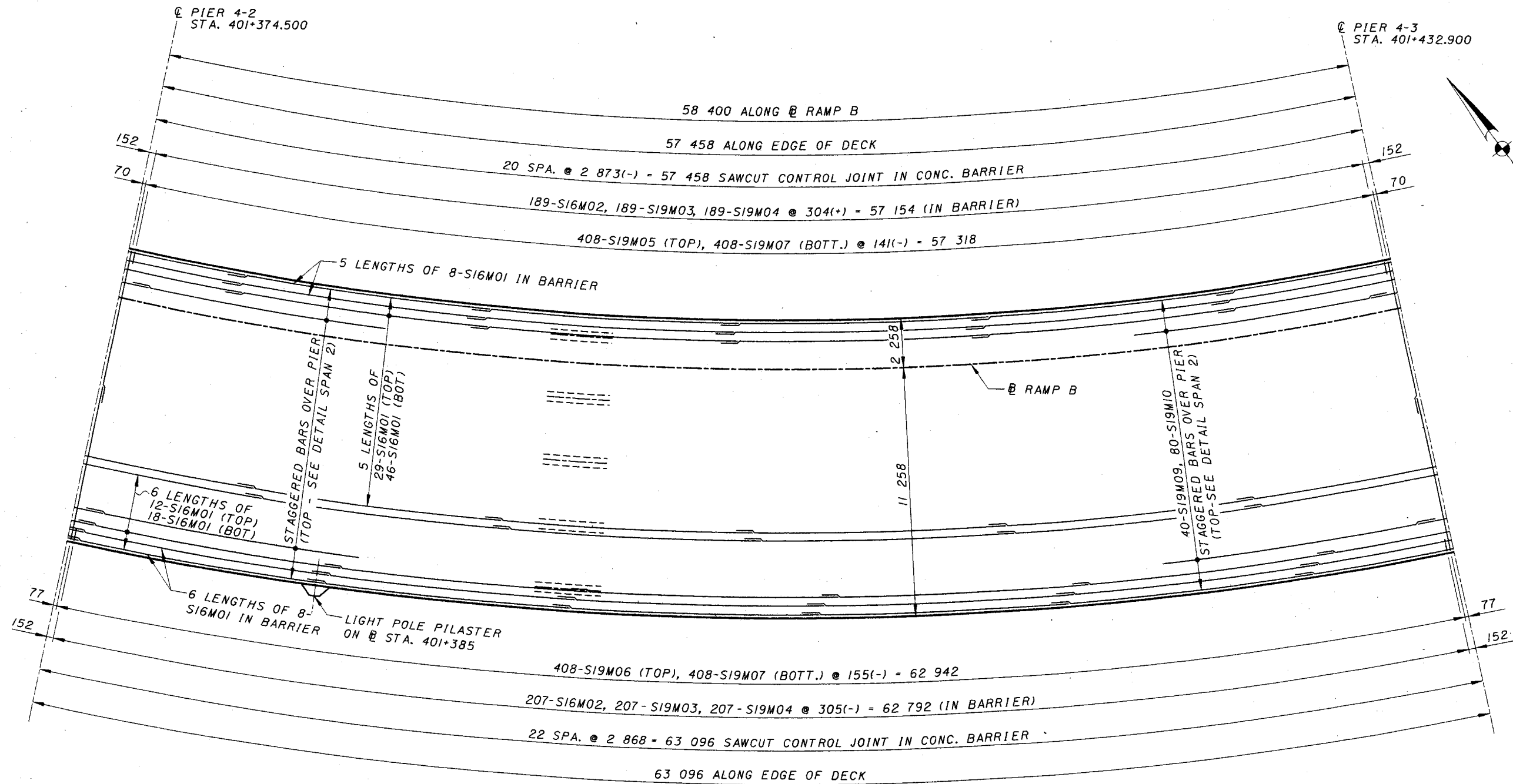
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DESIGNED MJD	DATE 5-28-99
CHECKED DMB	REVIEWED EB
DRAWN MCC	STRUCTURE FILE NUMBER 3103412
DECK SLAB PLAN - 2 BRIDGE NO. 4 RAMP B	
CITY OF CINCINNATI CONTRACT No. 75X5753	
135/180	
187 232	

Thu Jun 17 14:27:46 1999

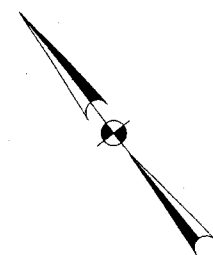
6/17/99

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PLAN - SPAN 3



DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

DESIGNED	MJD	CHECKED	DMB
DRAWN	MCG	REVISED	
REVIEWED	EB	DATE	5-28-99
STRUCTURE FILE NUMBER			3103412

DECK SLAB PLAN - 3
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

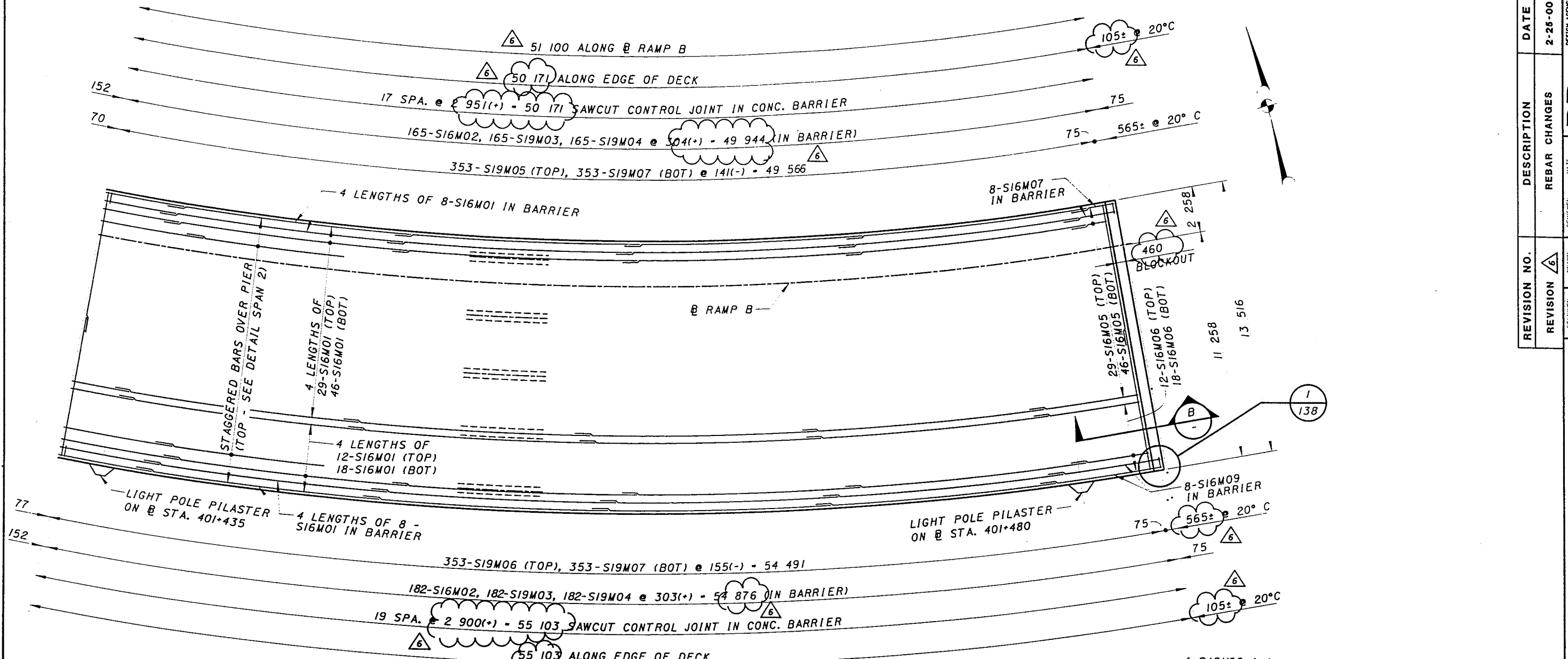
136/180

188
 232

2/25/00
 2/25/00
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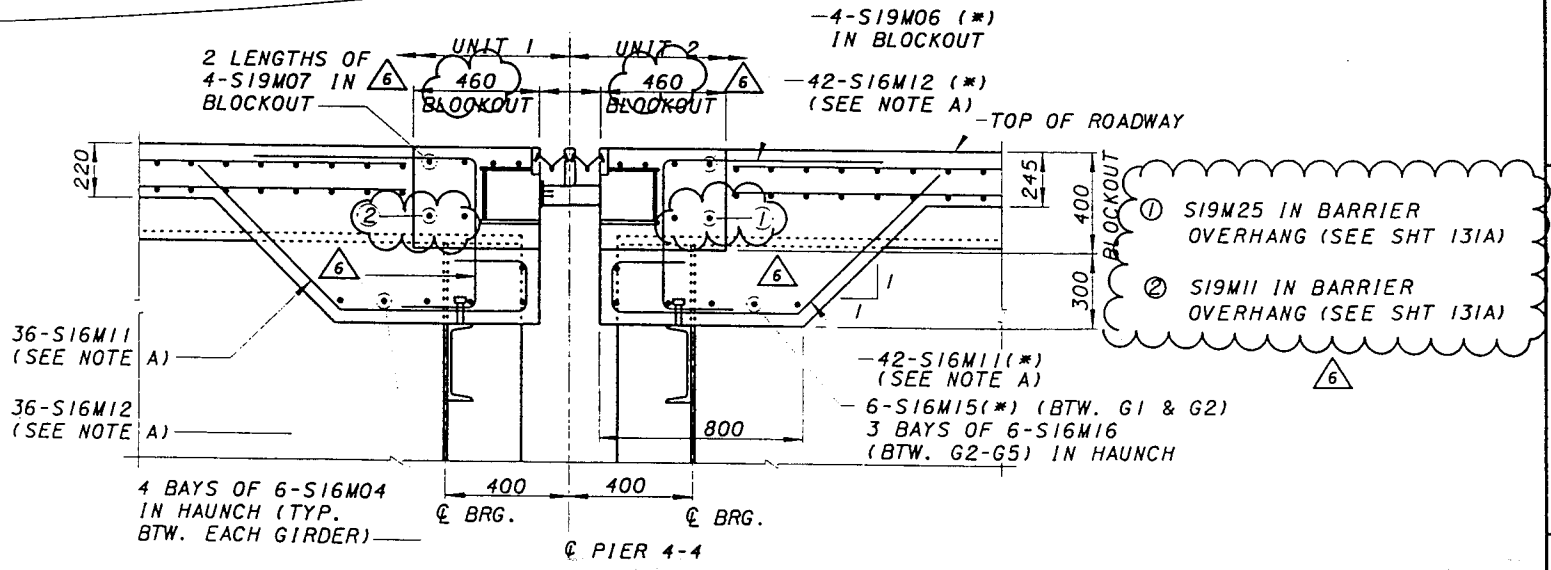
PIER 4-3
 STA. 401+432.900

PIER 4-4
 STA. 401+484.000



PLAN - SPAN 4

NOTE A:
 SPACE S16M11 & S16M12 BARS ALONG
 END OF SLAB AT 305± BETWEEN GIRDERS.
 S16M12 BARS SHALL BE LOCATED TO
 AVOID INTERFERENCE WITH MODULAR
 JOINT PLACEMENT AND SHALL CLEAR
 ANCHORAGES AND SUPPORT BOXES
 AS SHOWN ON APPROVED SHOP DRAWINGS.



SECTION B

(*) BARS SHOWN ON UNIT 2
 SIDE OF JOINT ARE LISTED
 ON UNIT 2 DECK BAR SCHEDULE

REVISION NO.	DESCRIPTION	DATE	BY
6	REBAR CHANGES	2-25-00	CBS
5	DATE	5-28-99	EB
4	DRAWN	MCG	REVIEWED
3	CHECKED	DMB	REVIEWED
2	DESIGN AGENCY	PARSONS BRINCKERHOFF, INC.	312 ELM STREET SUITE 2500 CINCINNATI, OH 45202-2770
1	PROJECT FILE NUMBER	3103472	

DECK SLAB PLAN - 4
 BRIDGE NO. 4
 RAMP B

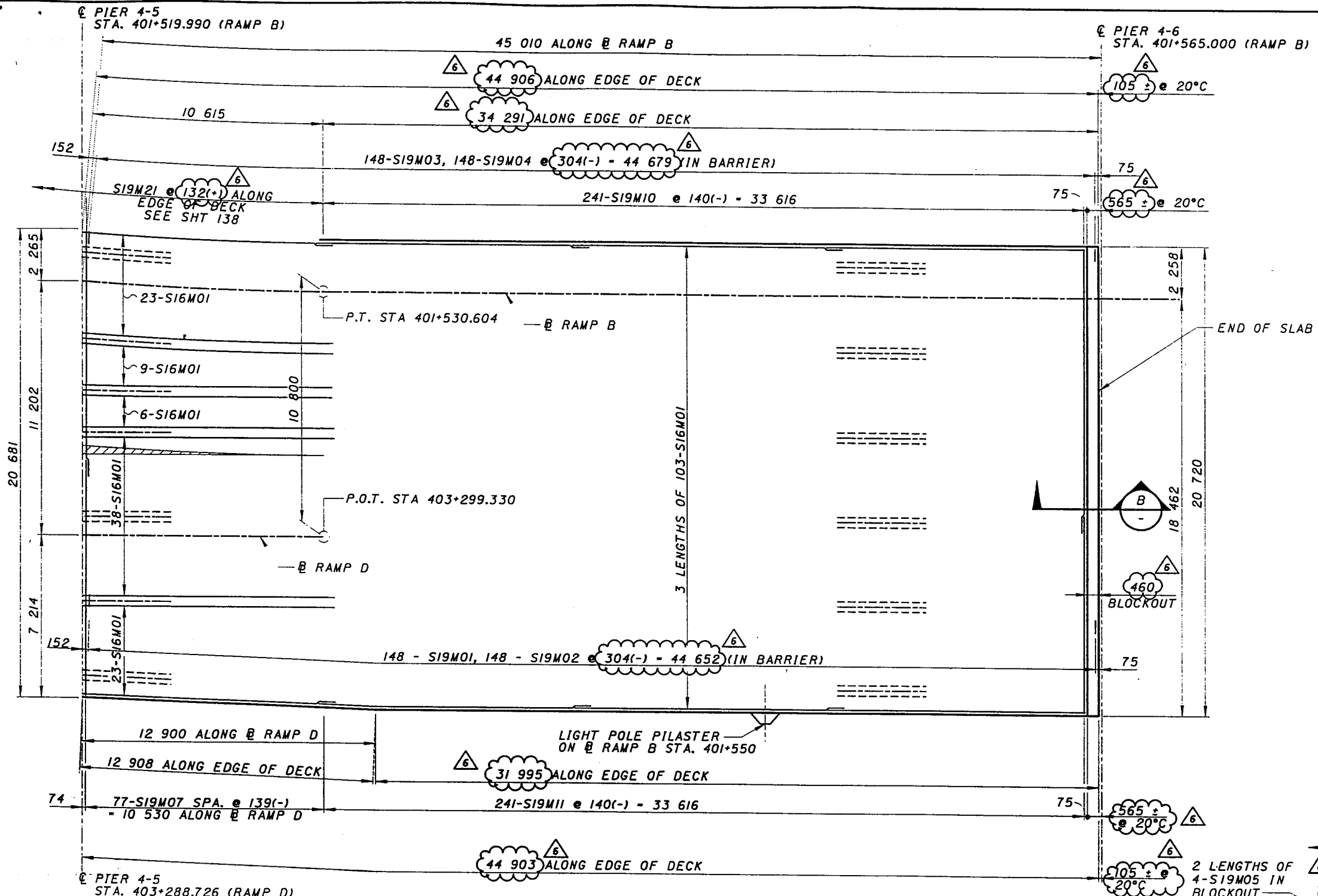
CITY OF CINCINNATI
 CONTRACT No. 75X5753

137/180

189/232

REVISION NO. 6
 FEB 25, 2000

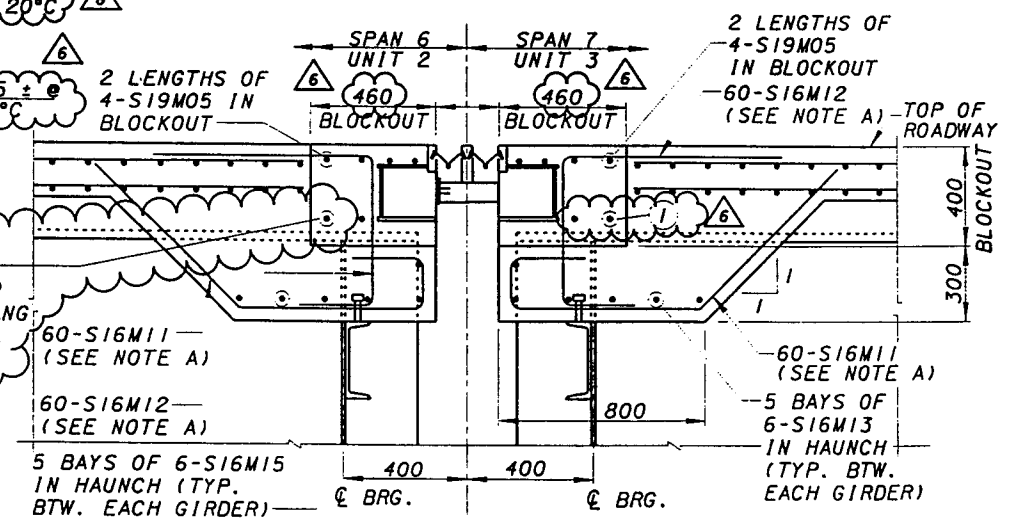
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 PROJECT: NCADD00-PRFVHP4VB\04360707.plt
 DRAWING: 140180



BOTTOM PLAN - SPAN 6

NOTE A:
 SPACE S16M11 & S16M12 BARS ALONG END OF SLAB AT 305± BETWEEN GIRDERS. S16M12 BARS SHALL BE LOCATED TO AVOID INTERFERENCE WITH MODULAR JOINT PLACEMENT AND SHALL CLEAR ANCHORAGES AND SUPPORT BOXES AS SHOWN ON APPROVED SHOP DRAWINGS.

S19M49 IN SIDEWALK OR BARRIER OVERHANG (SEE SHTS. 131A & 132A)



SECTION B

REVISION NO.	DESCRIPTION	DATE	BY
1	REBAR CHANGES	2-26-00	MJD

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-3720

DECK SLAB PLAN - 7
 BRIDGE NO. 4
 RAMP B

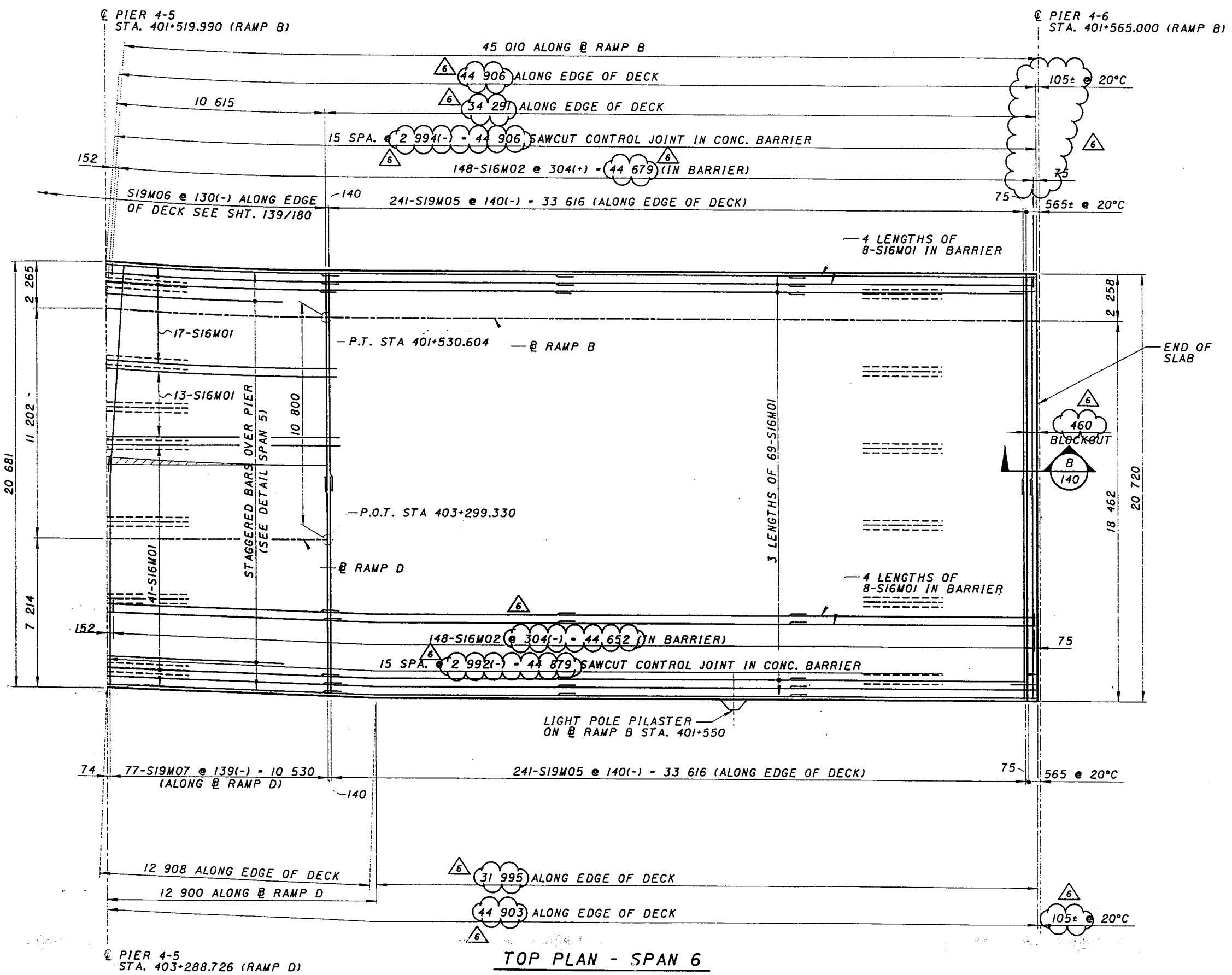
CITY OF CINCINNATI
 CONTRACT No. 75X5753

140/180

REVISION NO. 6
 FEB. 25, 2000

192
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 2000



REVISION NO.	DESCRIPTION	DATE	BY
6	REBAR CHANGES	2-26-00	CBS

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

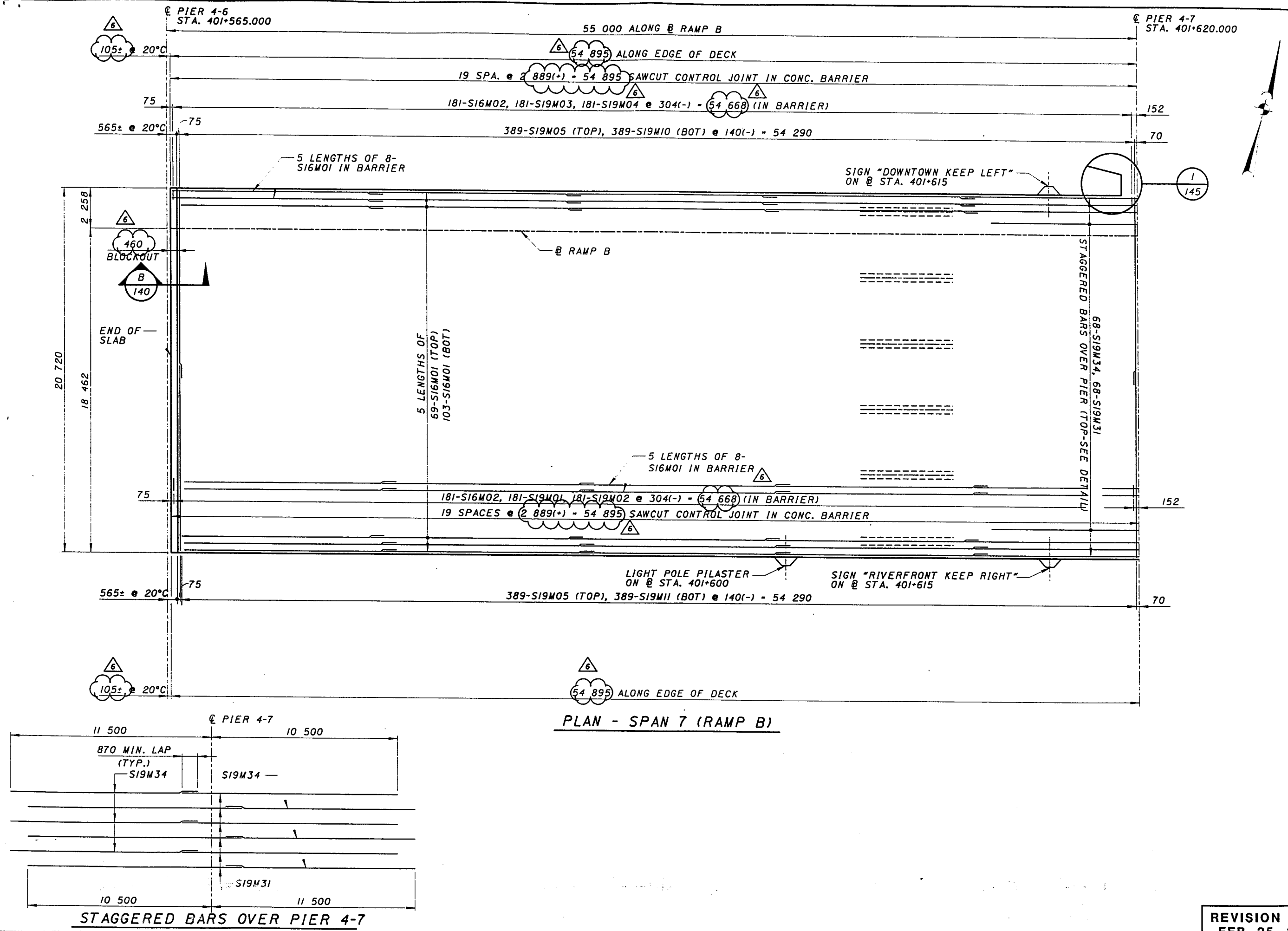
DECK SLAB PLAN - 8
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

REVISION NO. 6
 FEB 25, 2000

180
 193
 232

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 2/25/00



PLAN - SPAN 7 (RAMP B)

REVISION NO.	DESCRIPTION	DATE	BY
6	REBAR CHANGES	2-25-00	MCG

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

REVISION NO.	DESCRIPTION	DATE	BY
6	REBAR CHANGES	2-25-00	MCG

DECK SLAB PLAN - II
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

144/180
 196
 232

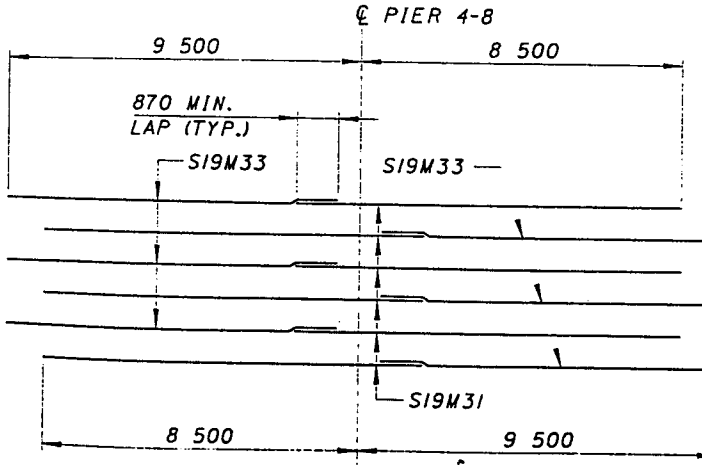
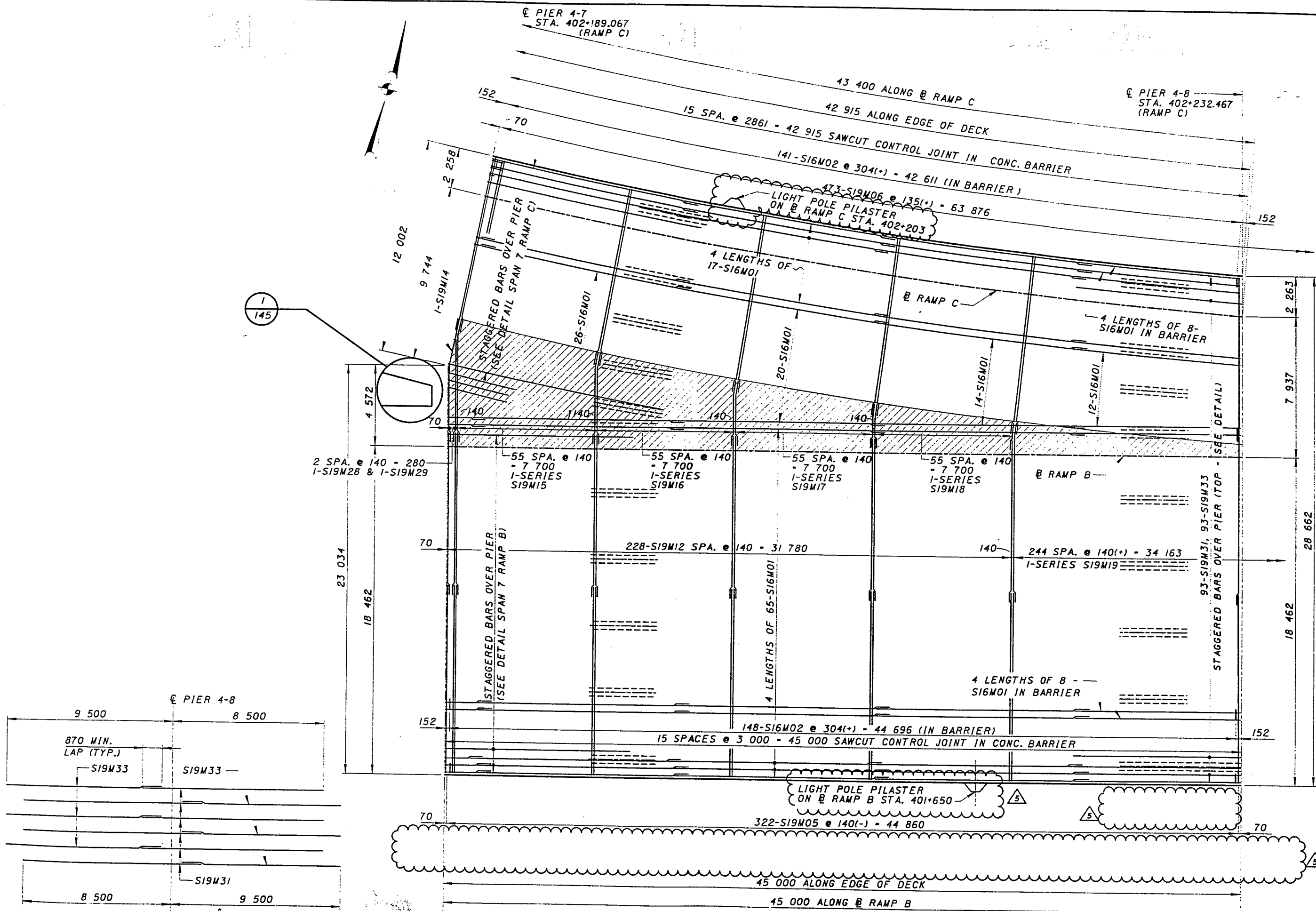
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2/8/00

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STAGGERED BARS OVER PIER 4-8

TOP PLAN - SPAN 8

REVISION NO.	DESCRIPTION	DATE	BY
3	REBAR CHANGES	2-8-00	MCG

DESIGN AGENCY
PB
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

REVISION NO. 5
 FEB. 8, 2000

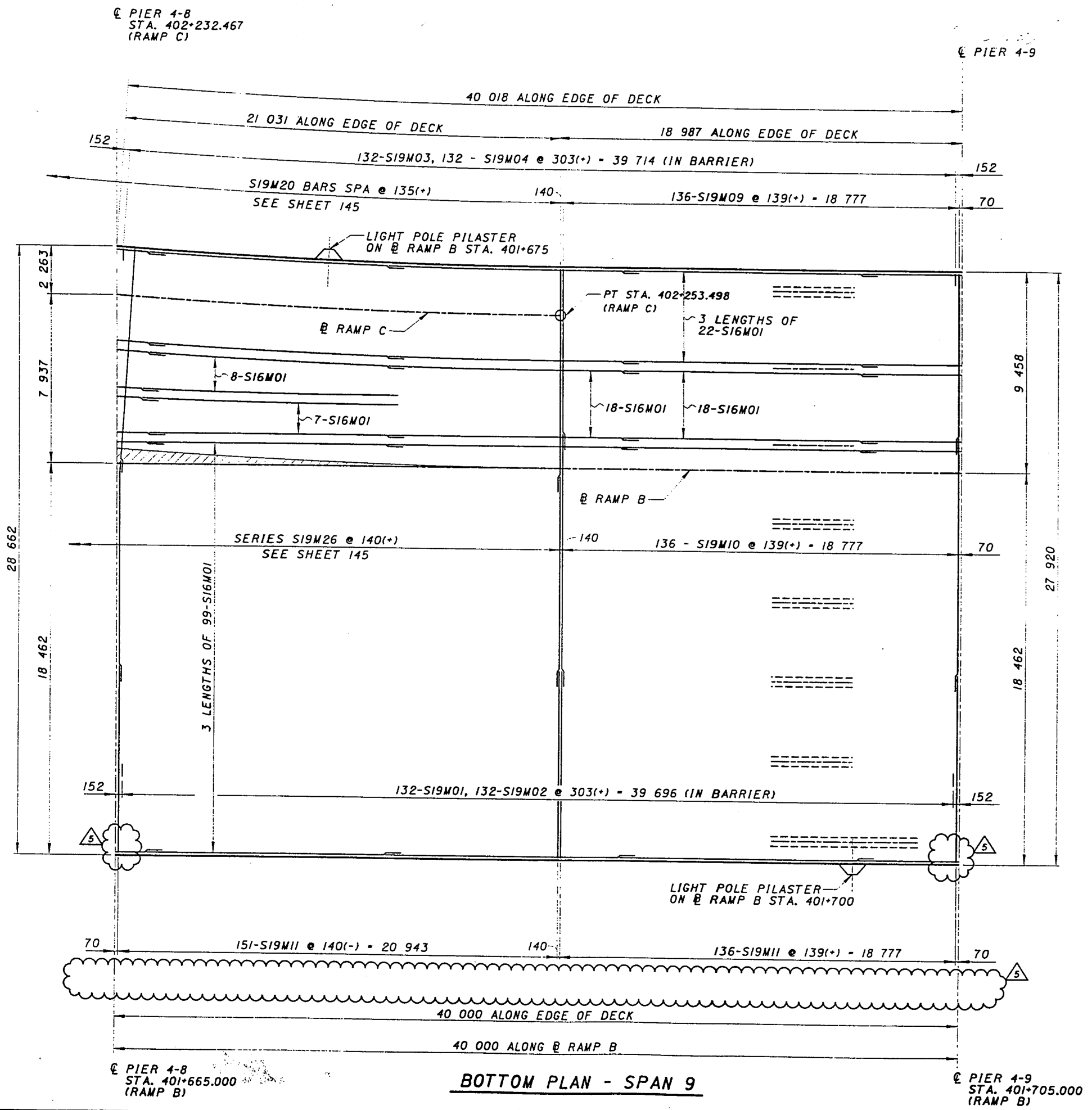
DECK SLAB PLAN - 13
 BRIDGES NO. 2 & 4
 RAMPS B & C

CITY OF CINCINNATI
 CONTRACT NO. 75X5753

146/180

198
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BOTTOM PLAN - SPAN 9

REVISION NO.	DESCRIPTION	DATE	BY
5	REBAR CHANGES	2-8-00	MCG

DESIGN AGENCY
PB
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-3720

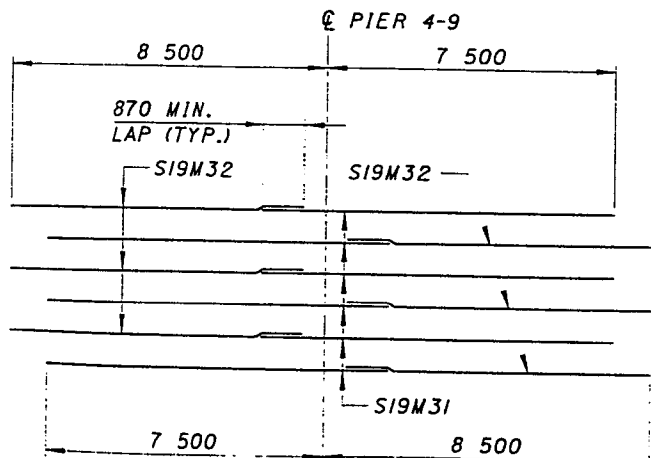
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 BRIDGES NO. 2 & 4
 RAMPS B & C

CITY OF CINCINNATI
 CONTRACT No. 75X5753

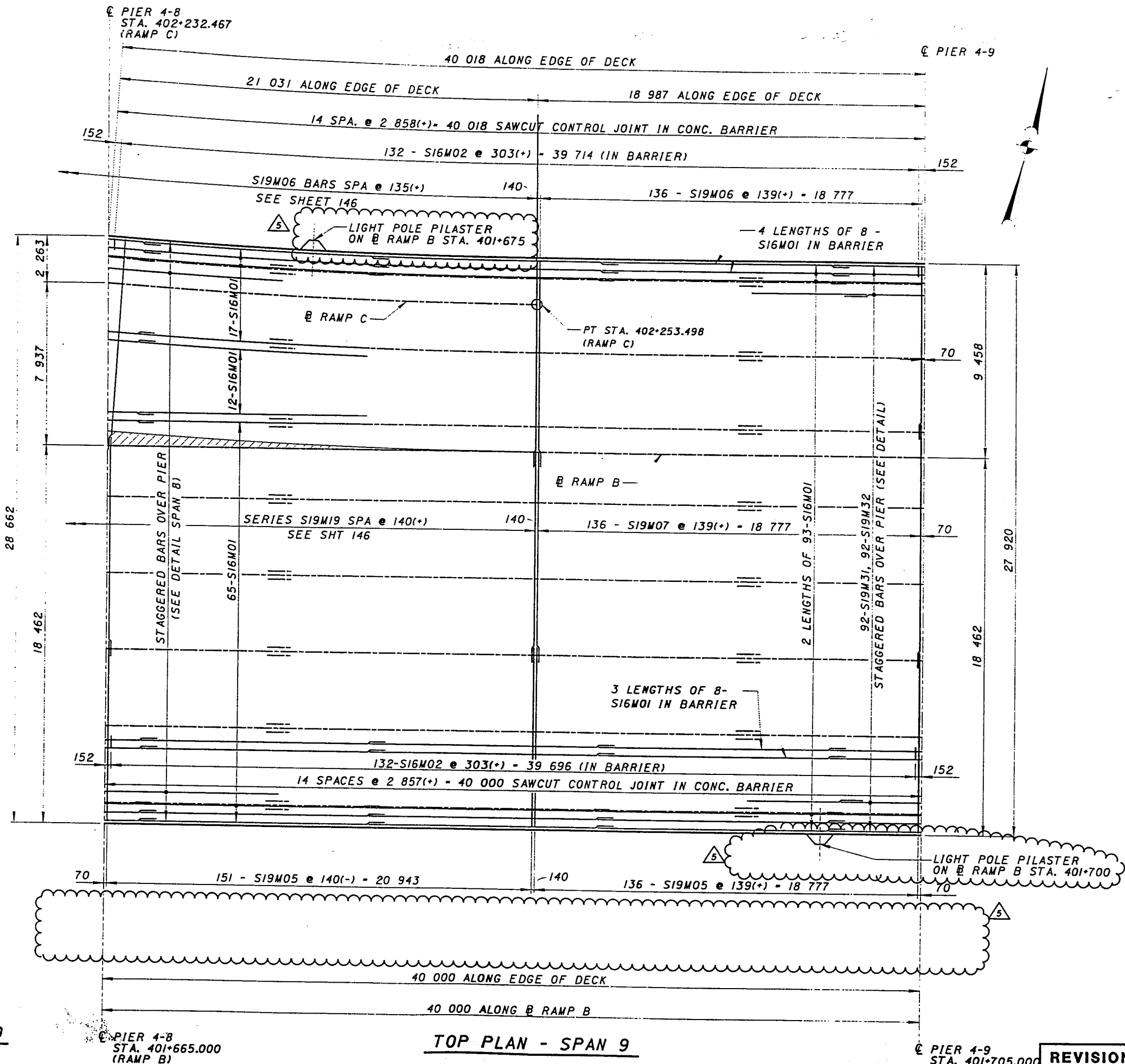
147/180

REVISION NO. 5
FEB. 8, 2000

199
 232



STAGGERED BARS OVER PIER 4-9



TOP PLAN - SPAN 9

REVISION NO.	DESCRIPTION	DATE	BY
5	REBAR CHANGES	2-8-00	MCG

DESIGN AGENT
PB
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

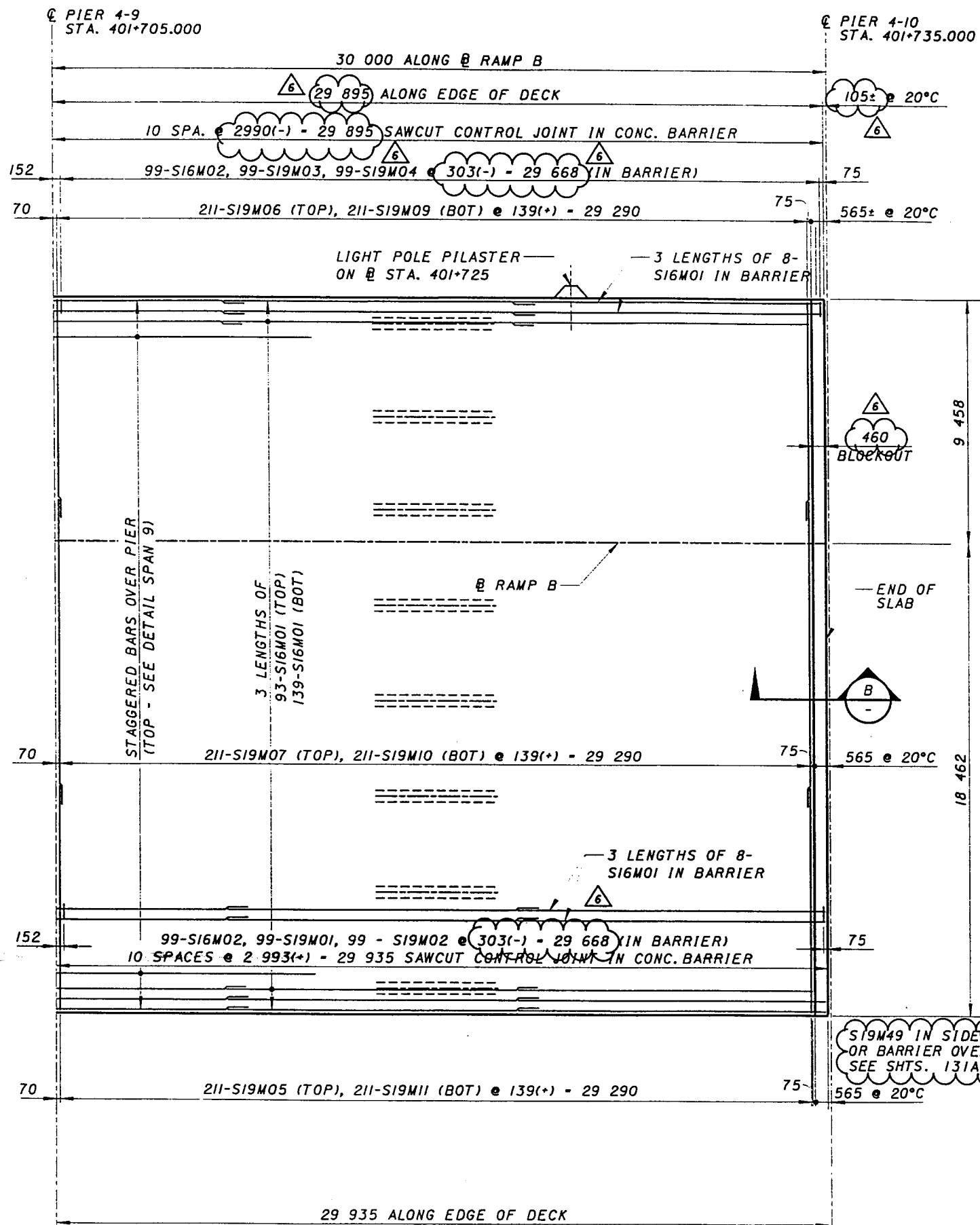
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 DRAWN DATE
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 CHECKED REVISED
 STRUCTURE FILE NUMBER
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DECK SLAB PLAN - 15
 BRIDGES NO. 2 & 4
 RAMPS B & C

CITY OF CINCINNATI
 CONTRACT No. 75X5753

REVISION NO. 5
 FEB. 8, 2000

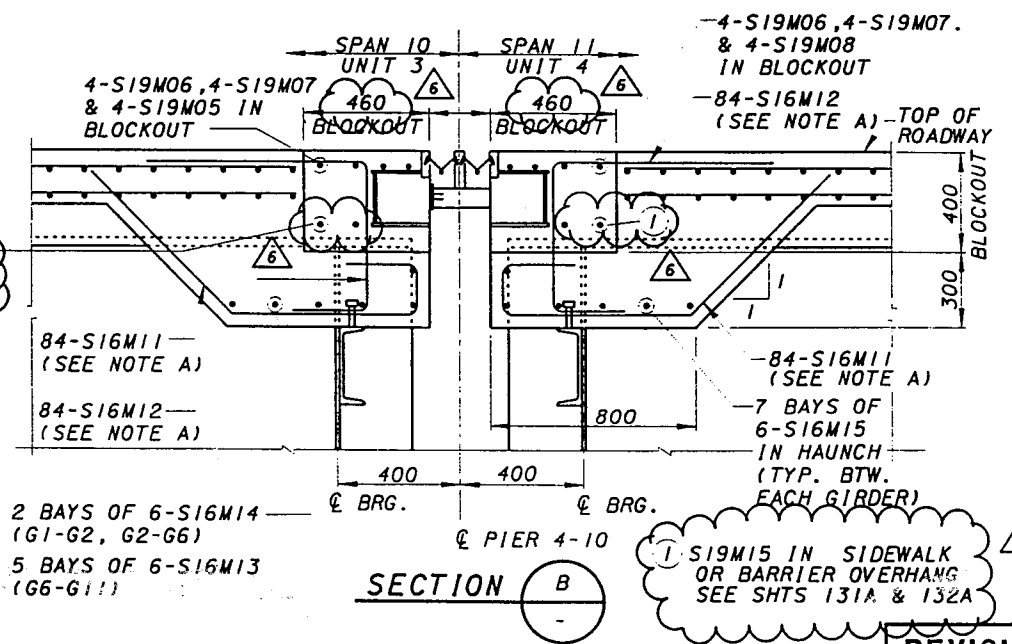
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PLAN - SPAN 10

NOTE A:

SPACE S16M11 & S16M12 BARS ALONG END OF SLAB AT 305± BETWEEN GIRDERS. S16M12 BARS SHALL BE LOCATED TO AVOID INTERFERENCE WITH MODULAR JOINT PLACEMENT AND SHALL CLEAR ANCHORAGES AND SUPPORT BOXES AS SHOWN ON APPROVED SHOP DRAWINGS.



SECTION B

REVISION NO. 6
FEB 25, 2000

REVISION NO.	DESCRIPTION	DATE	BY
6	REBAR CHANGES	2-25-00	CBS

DESIGN AGENCY
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 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

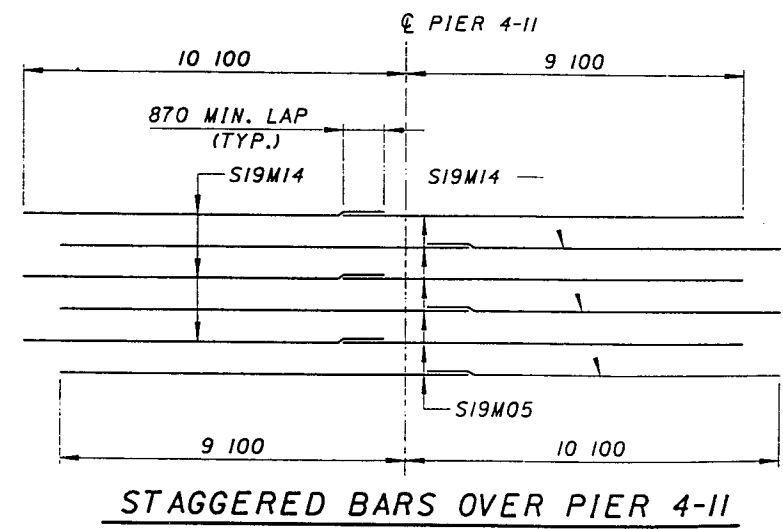
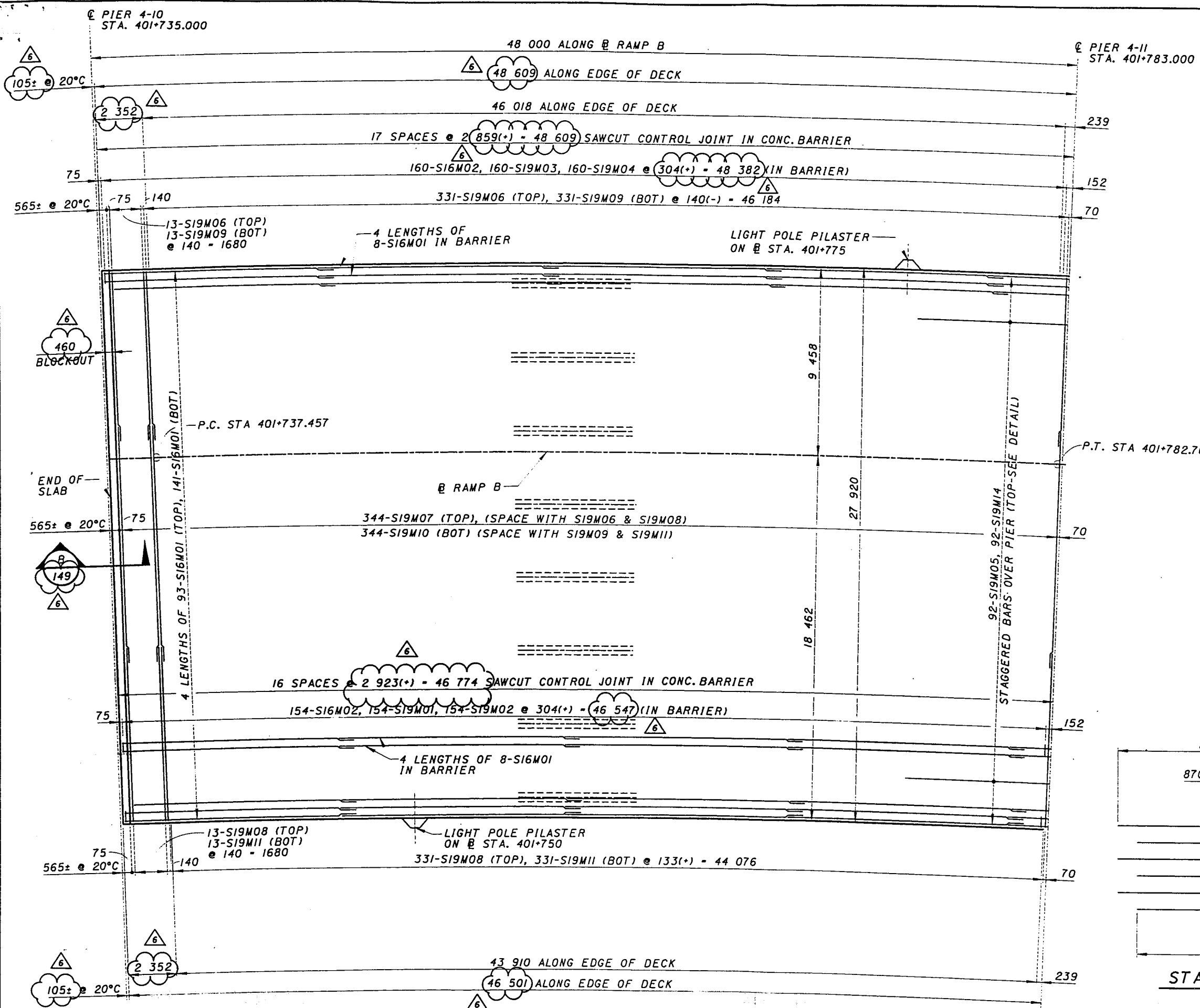
DECK SLAB PLAN - 16
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

149/180

201
232

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REVISION NO.	DESCRIPTION	DATE	BY
REVISION 6	REBAR & DIM. CHANGES	2-25-00	CB8

DESIGN AGENCY
PB
 PARSONS BRINCKERHOFF, INC.
 120 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

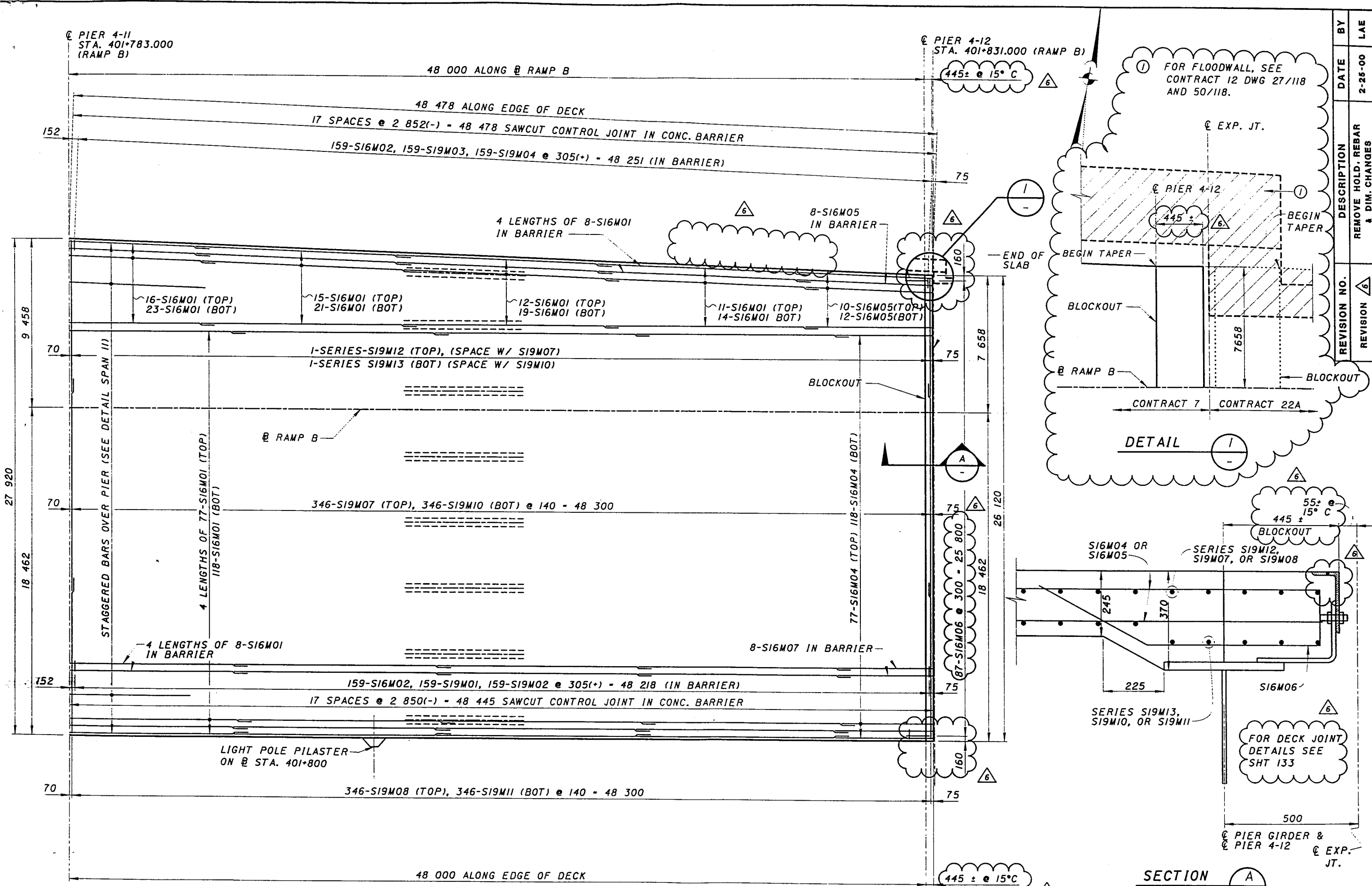
DECK SLAB PLAN - 17
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

REVISION NO. 6
 FEB 25, 2000

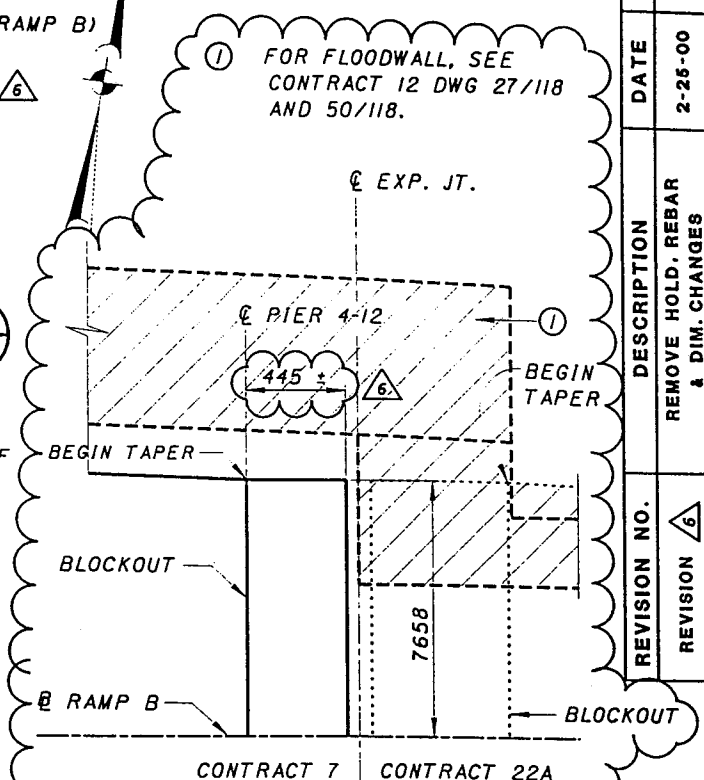
150/180
 202
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PLAN - SPAN 12

SECTION A



FOR DECK JOINT DETAILS SEE SHT 133

FOR FLOODWALL, SEE CONTRACT 12 DWG 27/118 AND 50/118.

REVISION NO.	DESCRIPTION	DATE	BY
6	REMOVE HOLD. REBAR & DIM. CHANGES	2-25-00	LAE

DESIGNED	CHECKED	DATE
MJD		

REVIEWED	DATE
MCG	

DESIGN AGENCY	PROJECT FILE NUMBER
PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720	3103412

DECK SLAB PLAN - 18
BRIDGE NO. 4
RAMP B

CITY OF CINCINNATI
CONTRACT NO. 75X5753

151/180

REVISION NO. 6
FEB. 25, 2000

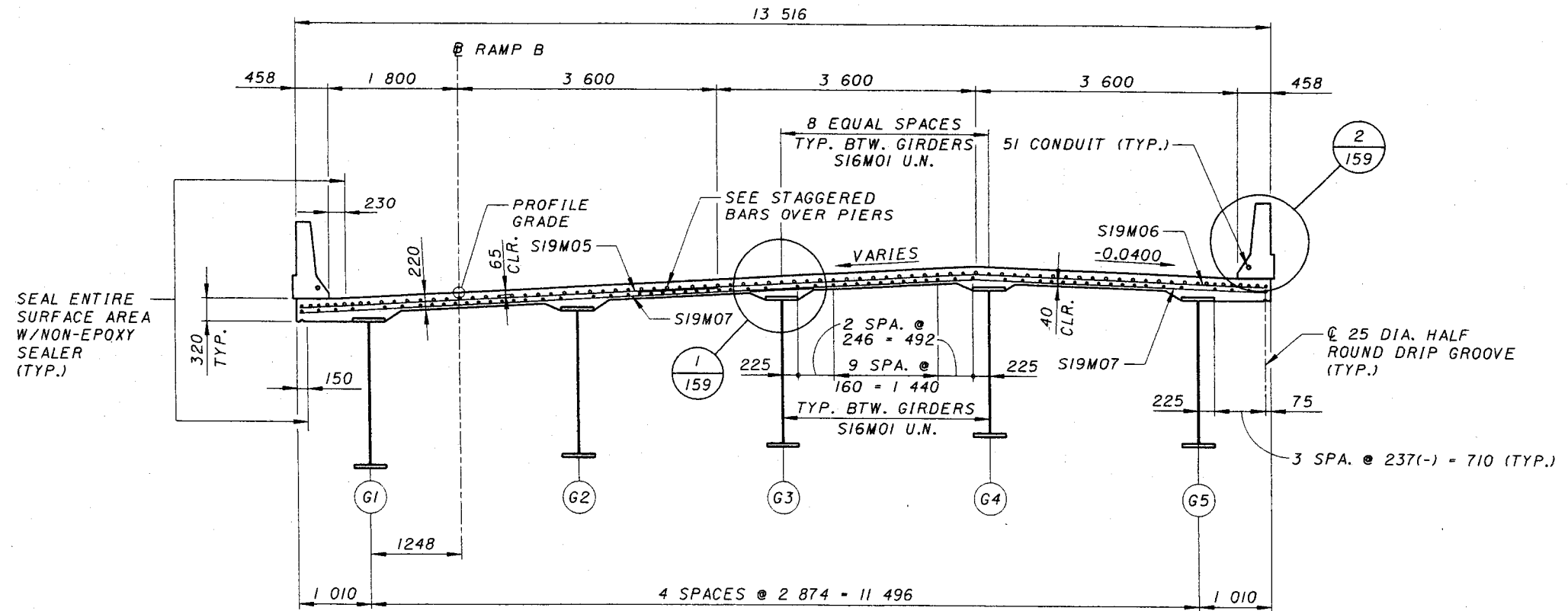
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Thu Jun 17 15:22:22 1999

6/17/99

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TYPICAL SECTION
(SPANS 1-4)

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2120

DATE
REVIEWED
DRAWN
DESIGNED
CHECKED

MCG
MJD

REVISION
REVISED

STRUCTURE FILE NUMBER
3703412

DECK SECTIONS - 1
BRIDGE NO. 4
RAMP B

CITY OF CINCINNATI
CONTRACT No. 75X5753

152/180

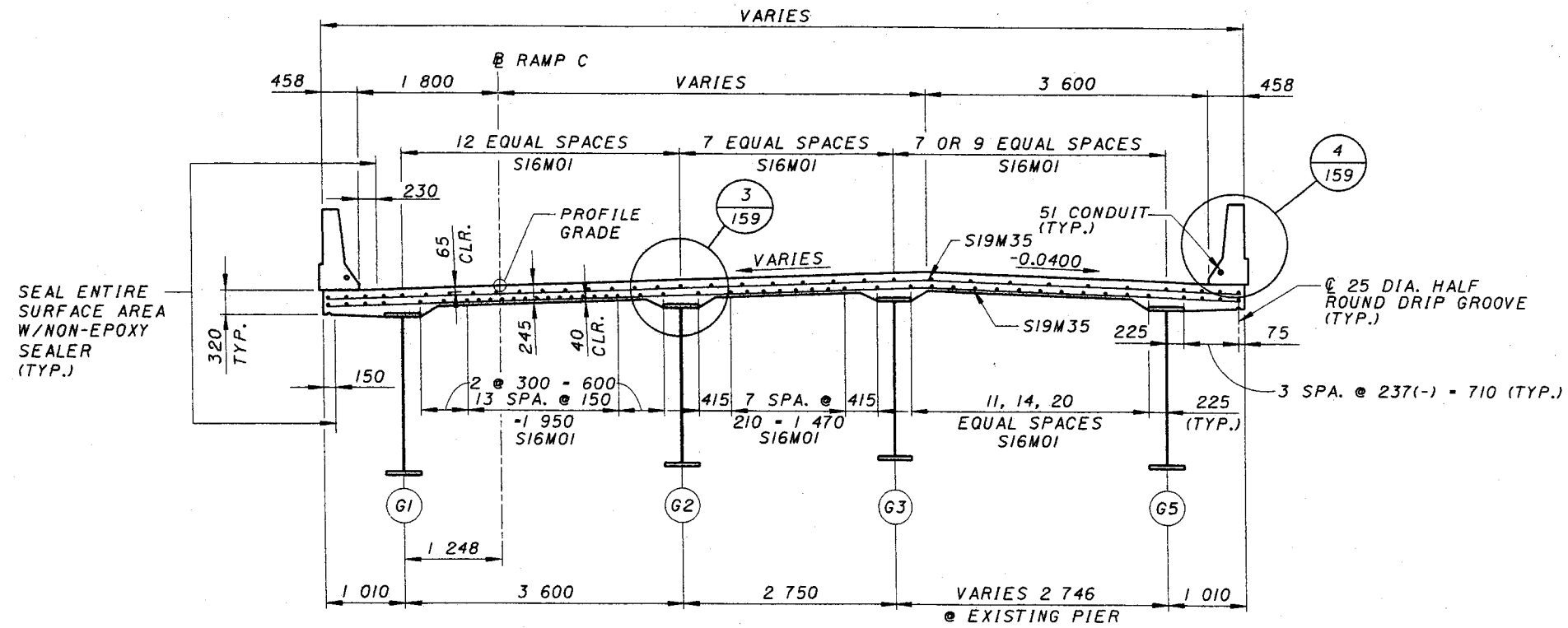
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6/18/99

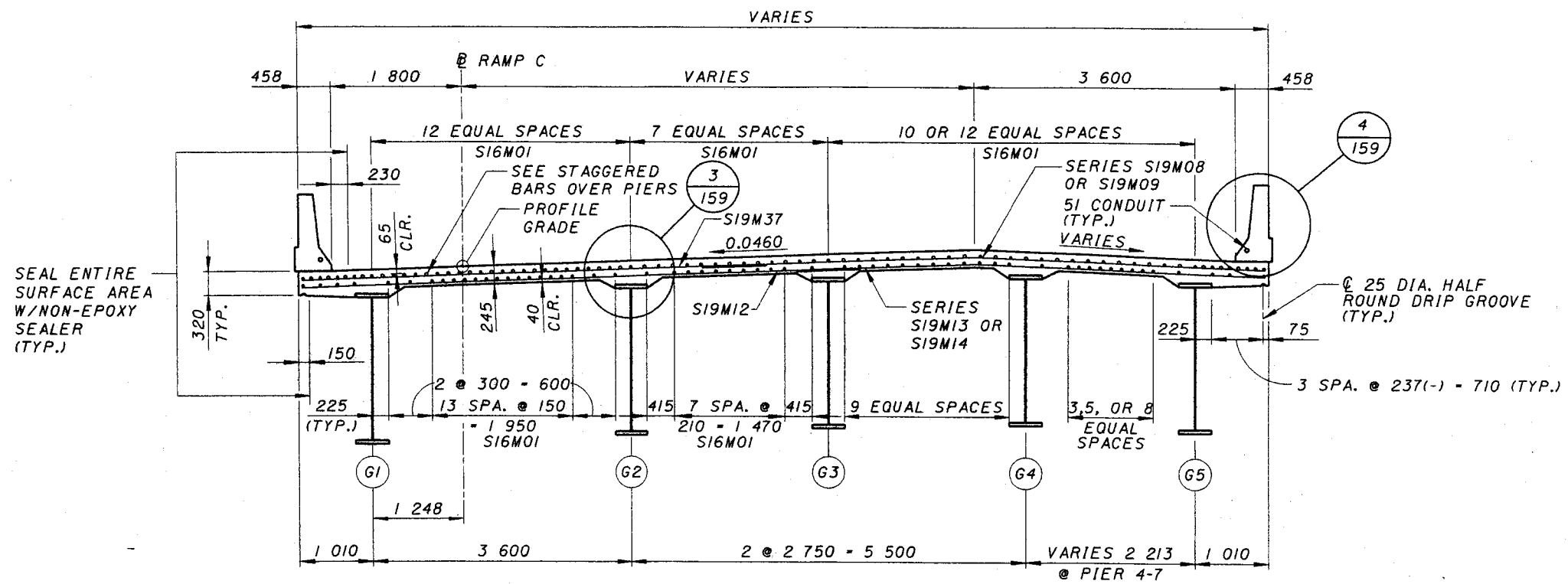
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TYPICAL SECTION

(SPAN 7 RAMP C NEAR EXISTING PIER 5 I-71 N.B.
TO P.C. STA. 402+139.632)



TYPICAL SECTION

(SPAN 7 RAMP C NEAR PIER 7)

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

REVIEWED
DATE
STRUCTURE FILE NUMBER
31034/2

DRAWN
MCG
REVISED

DESIGNED
MJD
CHECKED

DECK SECTIONS - 4
BRIDGE NO. 4
RAMP C

CITY OF CINCINNATI
CONTRACT No. 75X5753

155/180

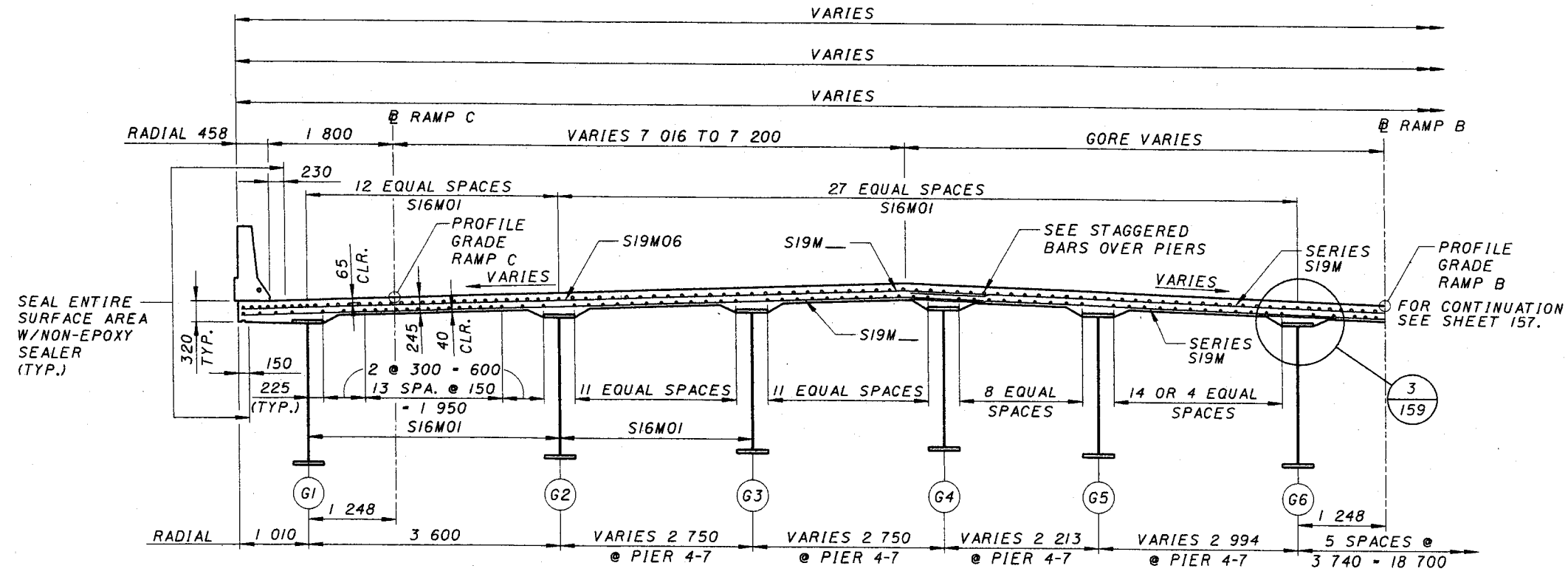
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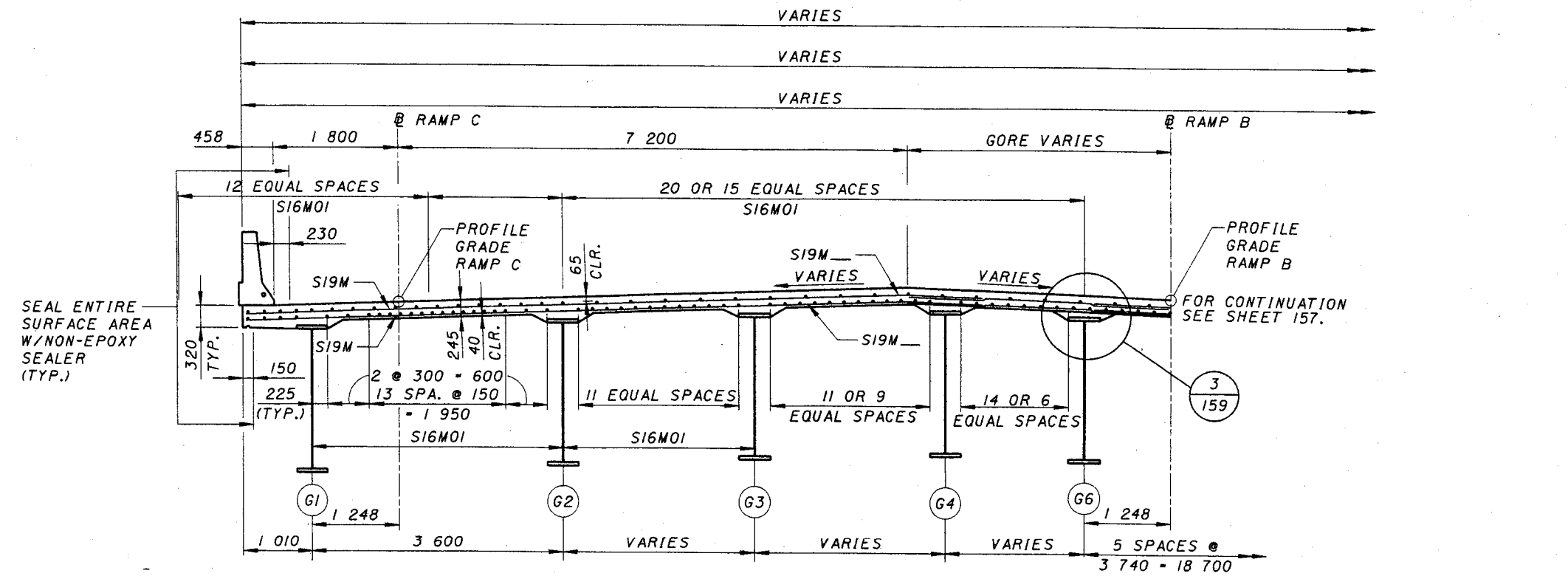
6/18/99

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TYPICAL SECTION (SPAN 8 NEAR PIER 7)



TYPICAL SECTION (MIDDLE OF SPAN 8)

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET SUITE 2500
CINCINNATI, OH 45202-2720

DESIGNED	MJD	CHECKED
DRAWN	MCG	REVISED
REVIEWED		
DATE		
STRUCTURE FILE NUMBER	3103472	

DECK SECTIONS - 5
BRIDGES NO. 2 & 4
RAMPS B & C

CITY OF CINCINNATI
CONTRACT No. 75X5753

156/180

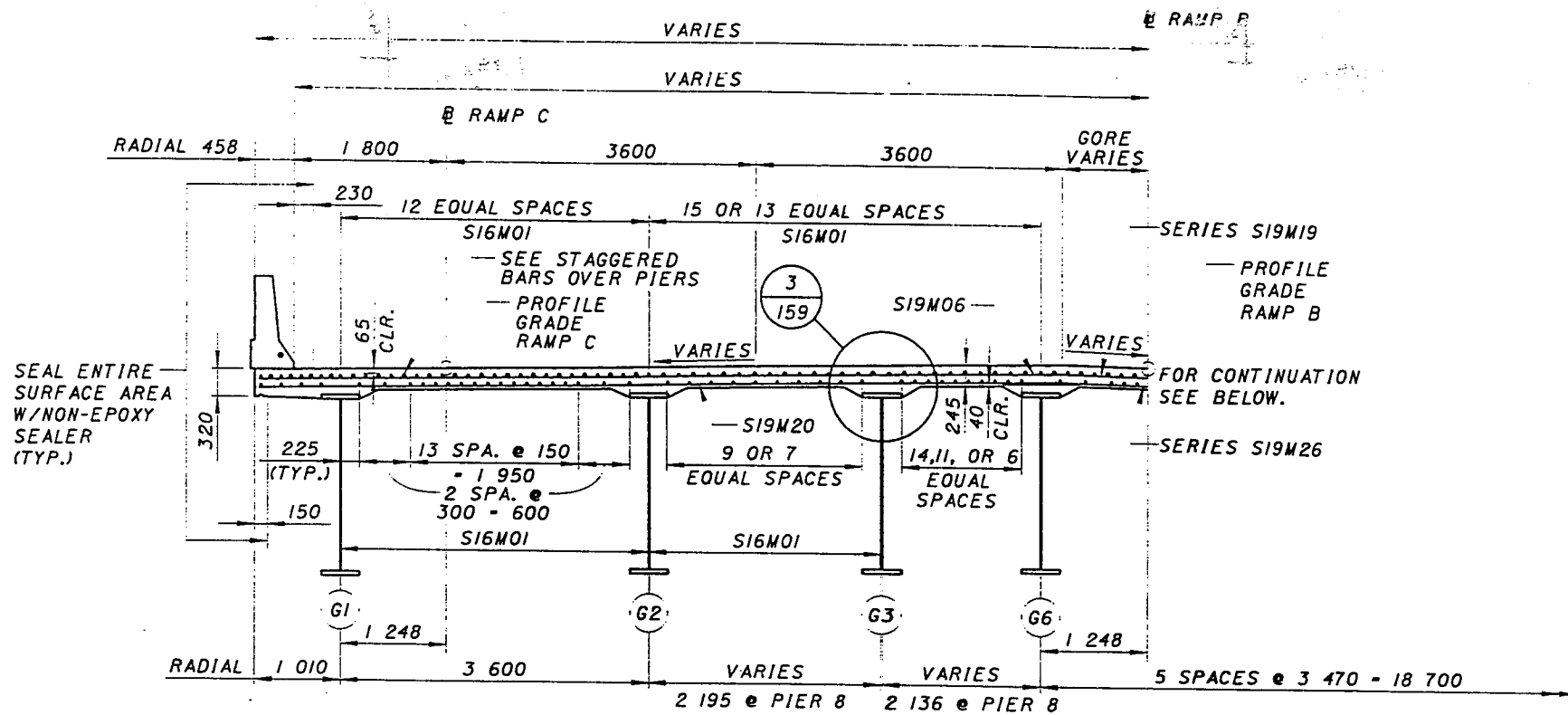
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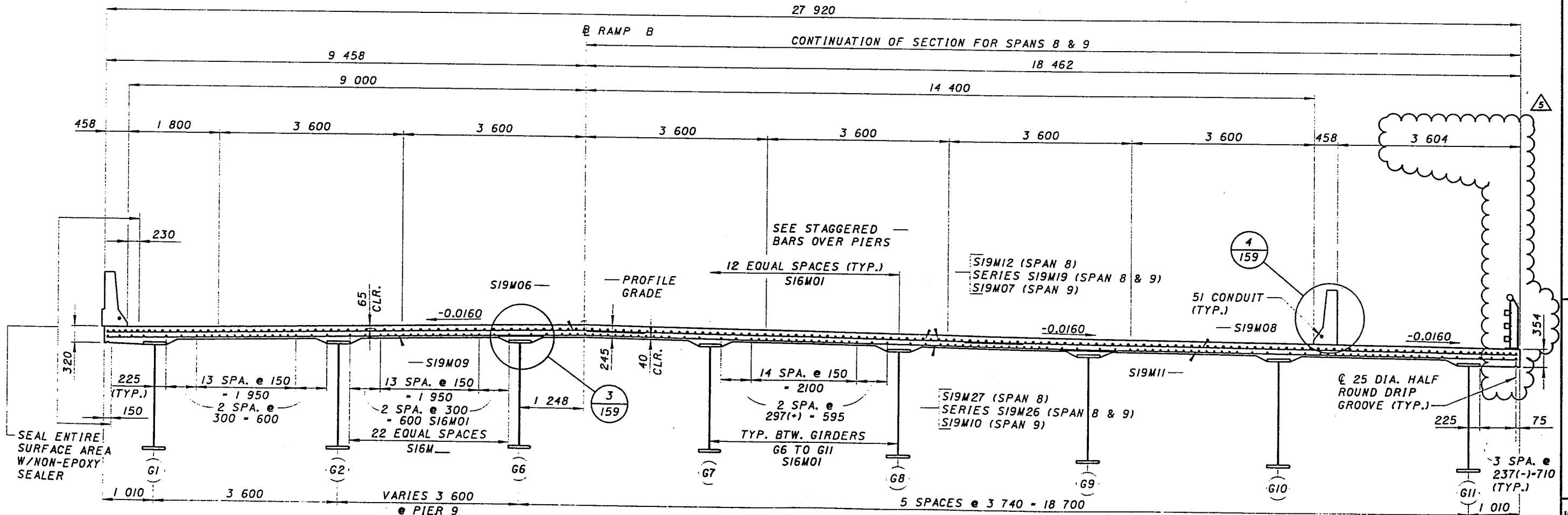
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TYPICAL SECTION - RAMP C
(SPANS 8 & 9 NEAR PIER 8)



TYPICAL SECTION - RAMP B
(SPAN 9 NEAR PIER 9 & SPAN 10)

REVISION NO.	DESCRIPTION	DATE	BY
5	RAILING CHANGE	2-8-00	CBS
4			
3			
2			
1			

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

DATE
2-8-00

DECK SECTIONS - 6
BRIDGES NO. 2 & 4
RAMPS B & C

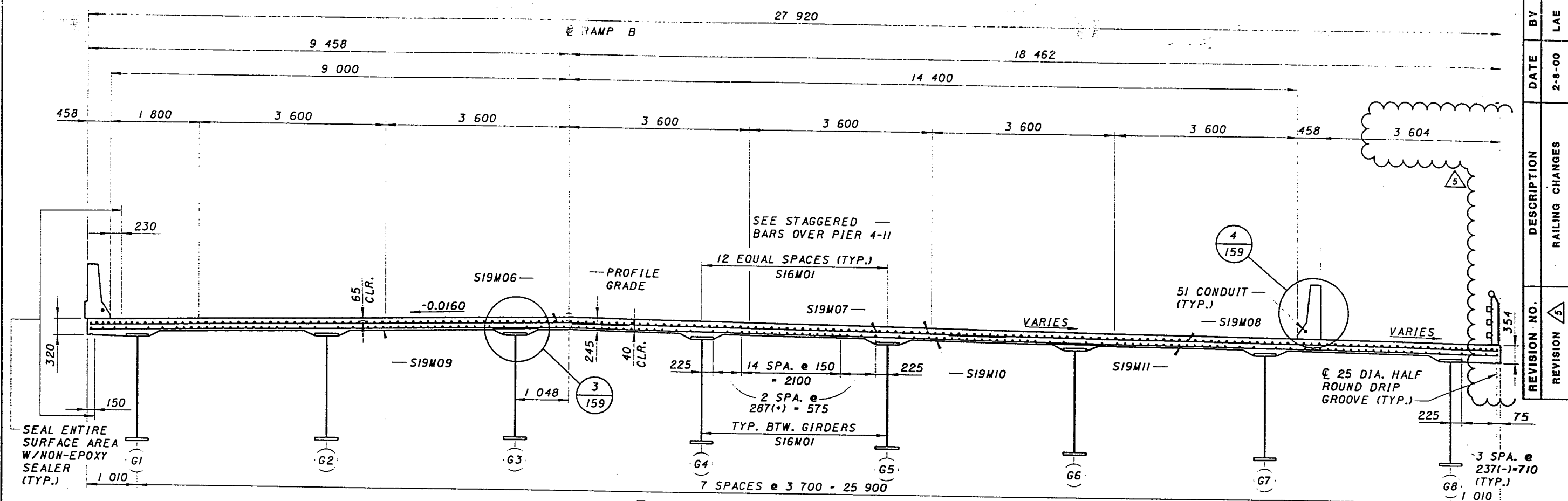
CITY OF CINCINNATI
CONTRACT NO. 75X5753

157/180

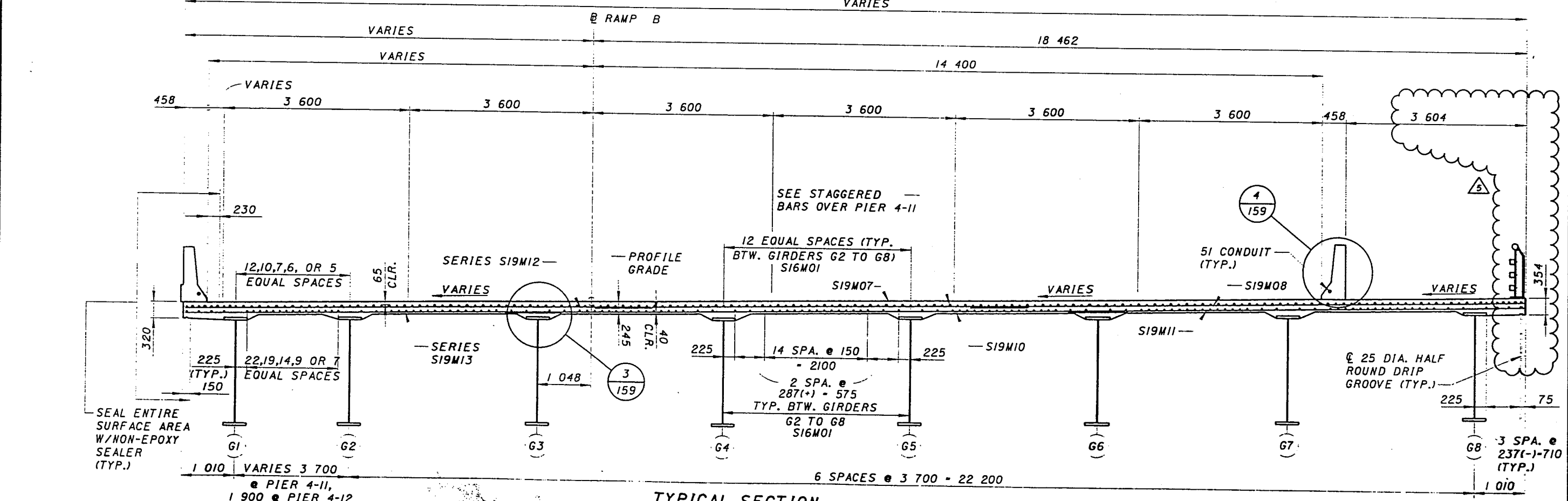
REVISION NO. 5
FEB. 8, 2000

209
232

2-8-00
 3103412
 75X5753
 158/180
 210
 232



TYPICAL SECTION
(SPAN II)



TYPICAL SECTION
(SPAN 12)

REVISION NO.	DESCRIPTION	DATE	BY
5	RAILING CHANGES	2-8-00	LAE

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 500
 CINCINNATI, OH 45202-2120

DRAWN
MJD
 CHECKED
MCG
 REVIEWED
MCG
 DATE
3/03/12
 STRUCTURE FILE NUMBER
75X5753

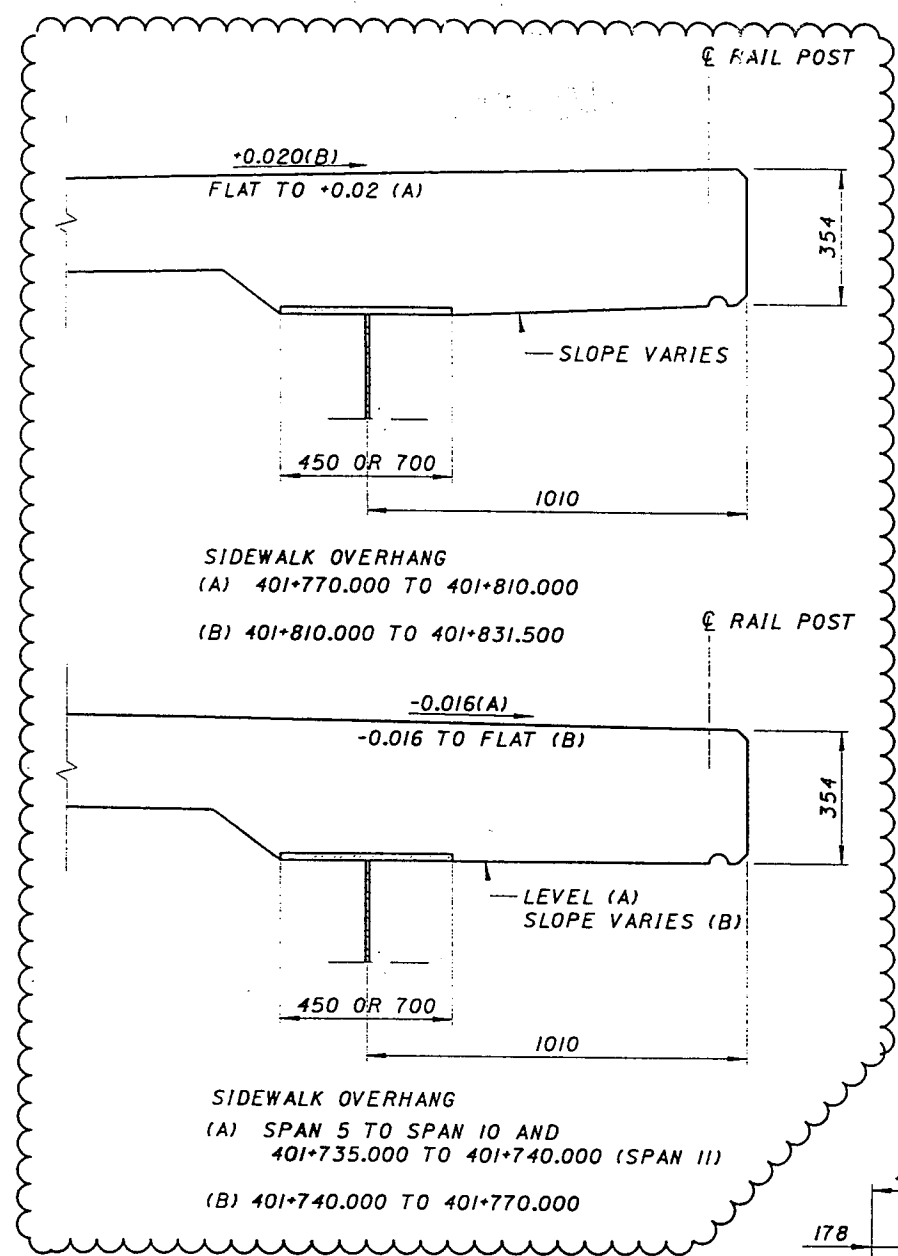
DECK SECTIONS - 7
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
CONTRACT No. 75X5753

REVISION NO. 5
FEB. 8, 2000

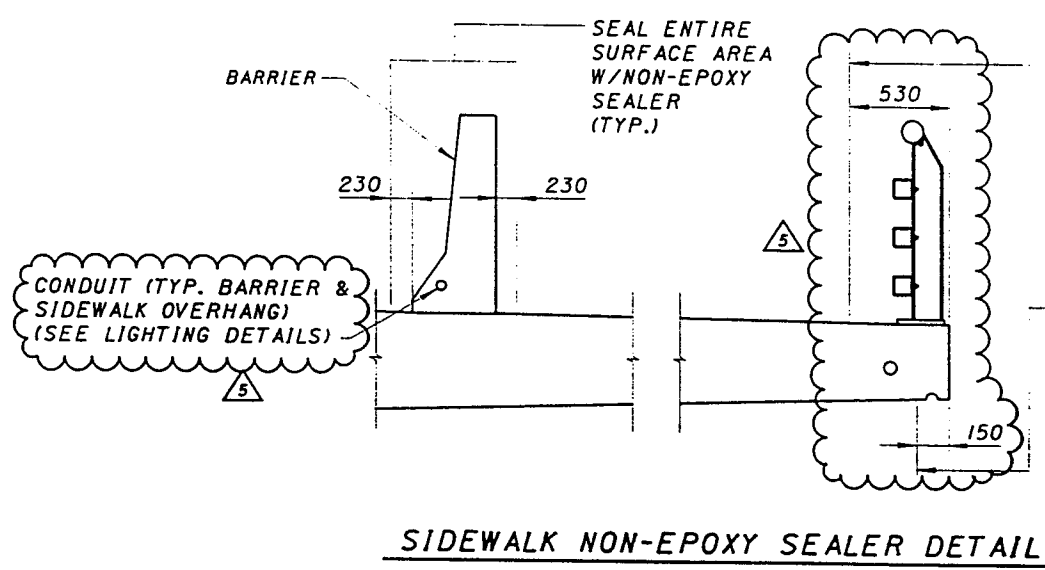
158/180
 210
 232

Date Feb. 8, 2000
 Time 8:00
 City Cincinnati
 Contract No. 75X5753
 Design Agency
 Parsons Brinckerhoff, Inc.
 312 Elm Street, Suite 2500
 Cincinnati, OH 45202-2720

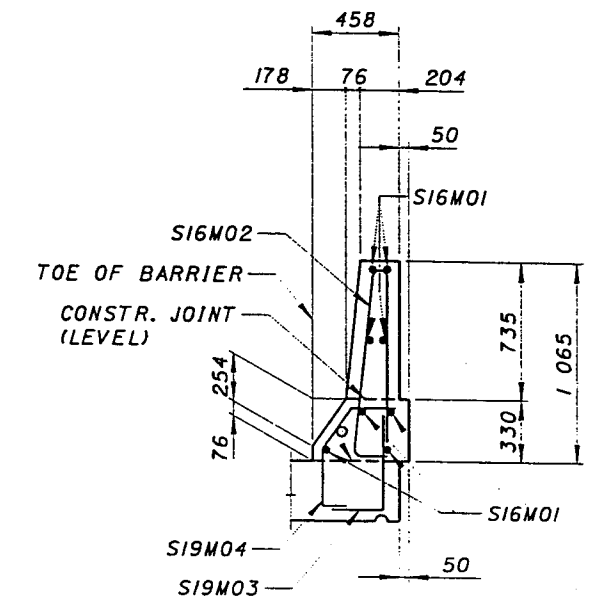
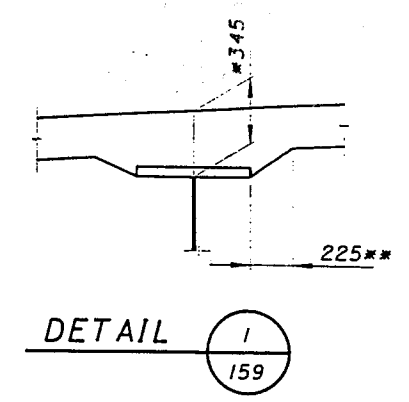


SIDEWALK OVERHANG
 (A) 401+770.000 TO 401+810.000
 (B) 401+810.000 TO 401+831.500

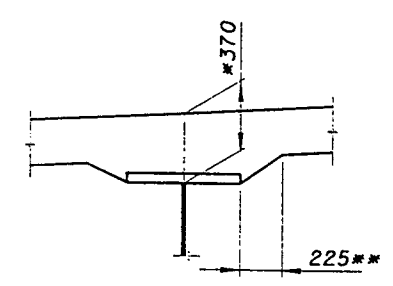
SIDEWALK OVERHANG
 (A) SPAN 5 TO SPAN 10 AND
 401+735.000 TO 401+740.000 (SPAN II)
 (B) 401+740.000 TO 401+770.000



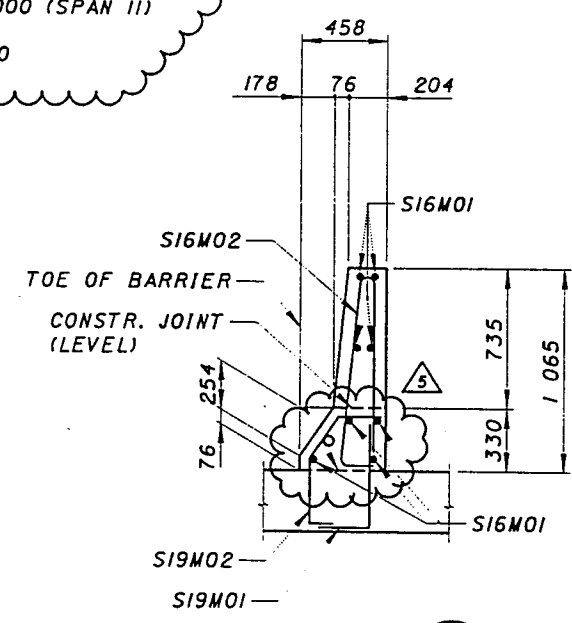
SIDEWALK NON-EPOXY SEALER DETAIL



DETAIL 2



DETAIL 3



DETAIL 4

NOTES:
 * DECK SLAB DEPTH: THE DISTANCE SHOWN FROM TOP OF DECK SLAB TO TOP OF STEEL GIRDER WEB IS THE DESIGN DIMENSION. THE QUANTITY OF DECK CONCRETE TO BE PAID FOR SHALL BE BASED ON THIS DIMENSION, EVEN THOUGH DEVIATION FROM IT MAY BE NECESSARY BECAUSE THE TOP FLANGE OF THE BEAM MAY NOT HAVE THE EXACT CAMBER OR CONFORMATION REQUIRED TO PLACE IT PARALLEL TO THE FINISHED GRADE.
 ** A HAUNCH WIDTH OF 225 SHALL BE USED FOR COMPUTING QUANTITY OF CONCRETE. HOWEVER, THE HAUNCH WIDTH MAY VARY BETWEEN 150 AND 300.
 FOR ADDITIONAL DECK BARS AT RAILING POSTS, SEE SHT. 133A/180

REVISION NO.	DESCRIPTION	DATE	BY
5	REVISE SWK RAILING	2-8-00	MCG
4	REVISED		
3	REVIEWED		
2	DATE		
1	DESIGN AGENCY		

DRAWN: MJD
 CHECKED: MCG
 STRUCTURE FILE NUMBER: 3103412
 DESIGN AGENCY: PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

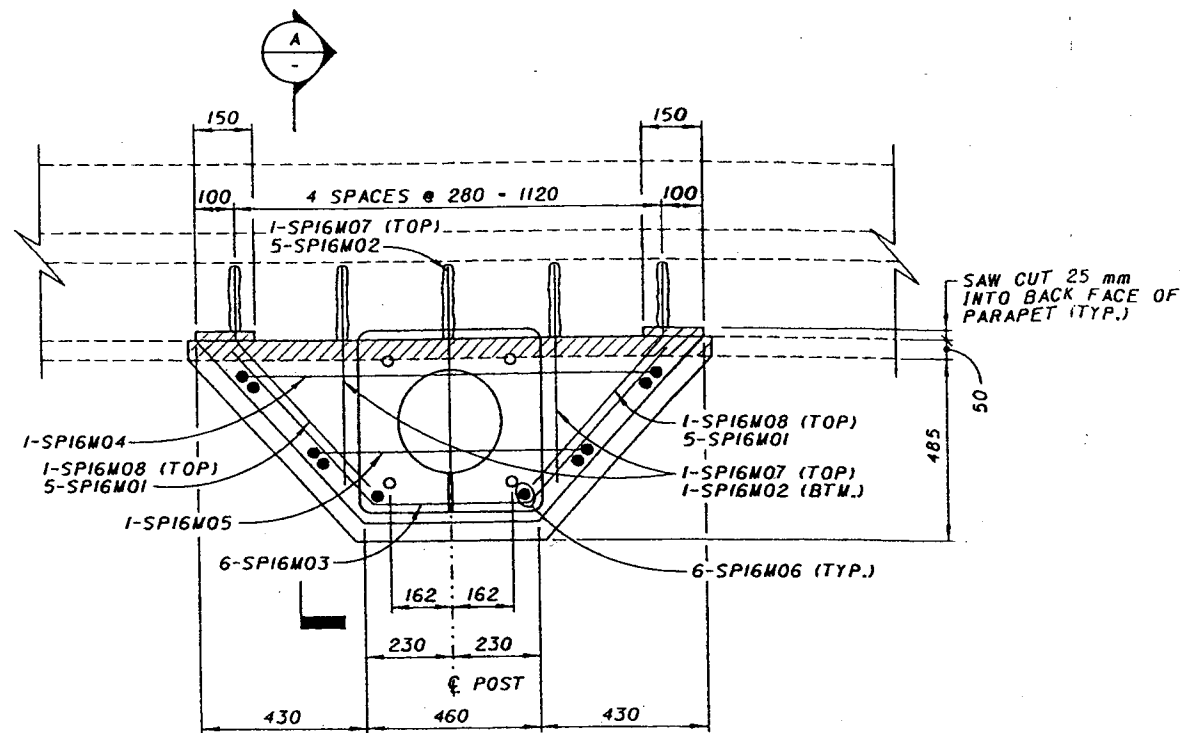
DECK DETAILS - 1
 BRIDGES NO. 2 & 4
 RAMPS B & C

CITY OF CINCINNATI
 CONTRACT No. 75X5753

159/180

REVISION NO. 5
 FEB. 8, 2000

211
 232



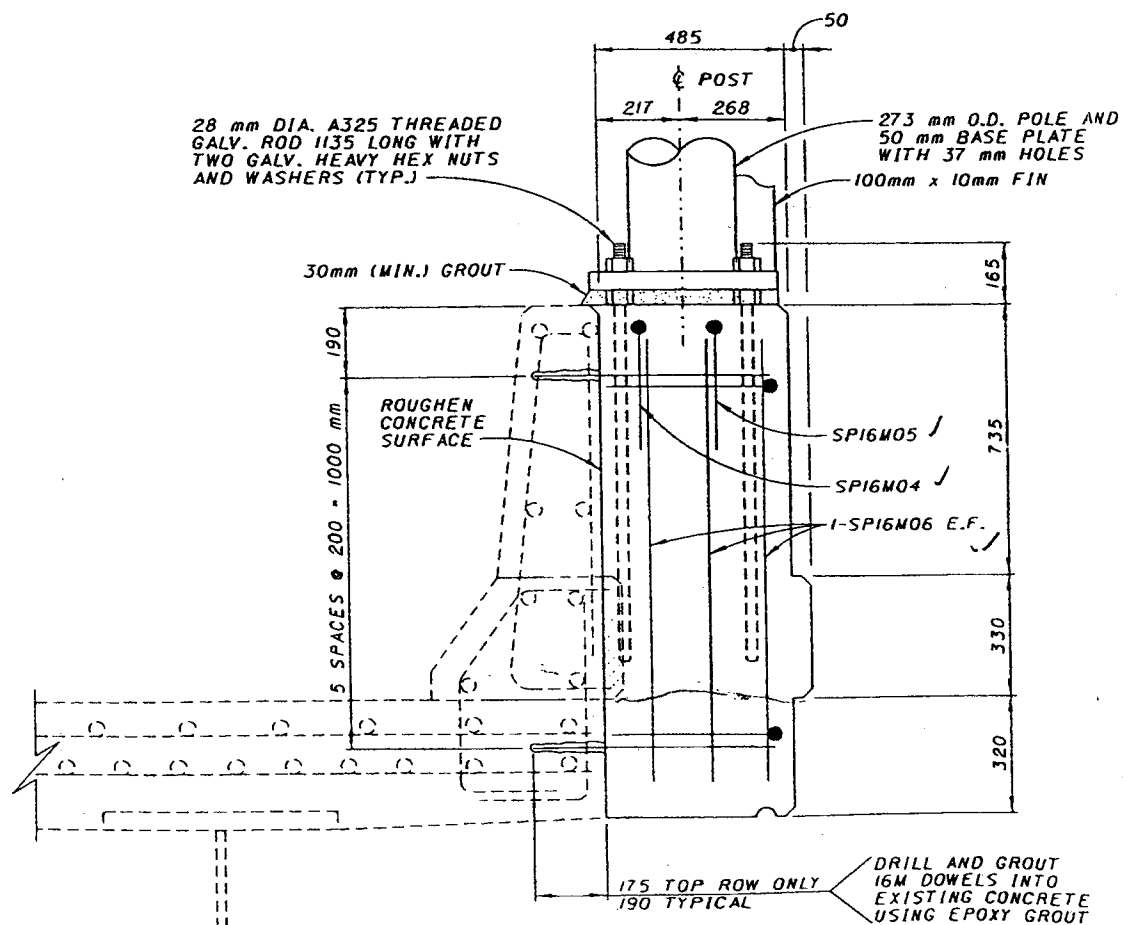
POLE PILASTER PLAN

POLE #301 STA. 401+738±
 POLE #302 STA. 401+788±

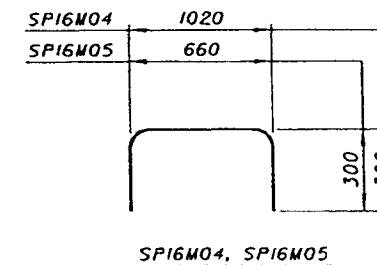
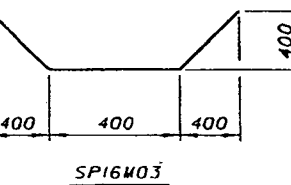
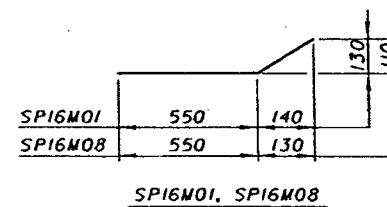
**POLE FOUNDATION #301 AND #302
 * REINFORCING STEEL LIST**

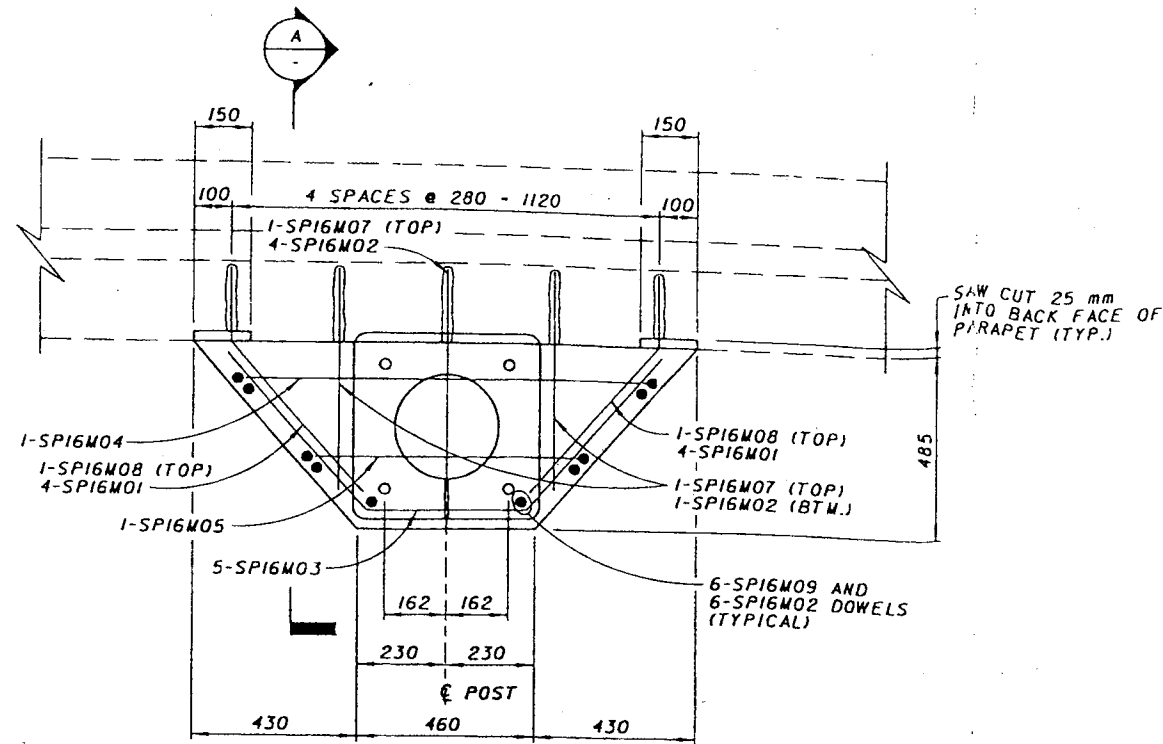
MARK	NUMBER	LENGTH (mm)	WEIGHT (kg.)	SHAPE
SPI6M01	20	740	26	BENT
SPI6M02	14	620	13	STR.
SPI6M03	12	1520	28	BENT
SPI6M04	2	1570	5	BENT
SPI6M05	2	1210	4	BENT
SPI6M06	12	1280	24	STR.
SPI6M07	6	600	13	STR.
SPI6M08	4	720	4	BENT
TOTAL FOR BOTH FOUNDATIONS - 117				

* SHOWN FOR INFORMATION ONLY. REINFORCING COST TO BE INCLUDED WITH POLE FOUNDATION UNIT COST FOR PAYMENT.



SECTION A





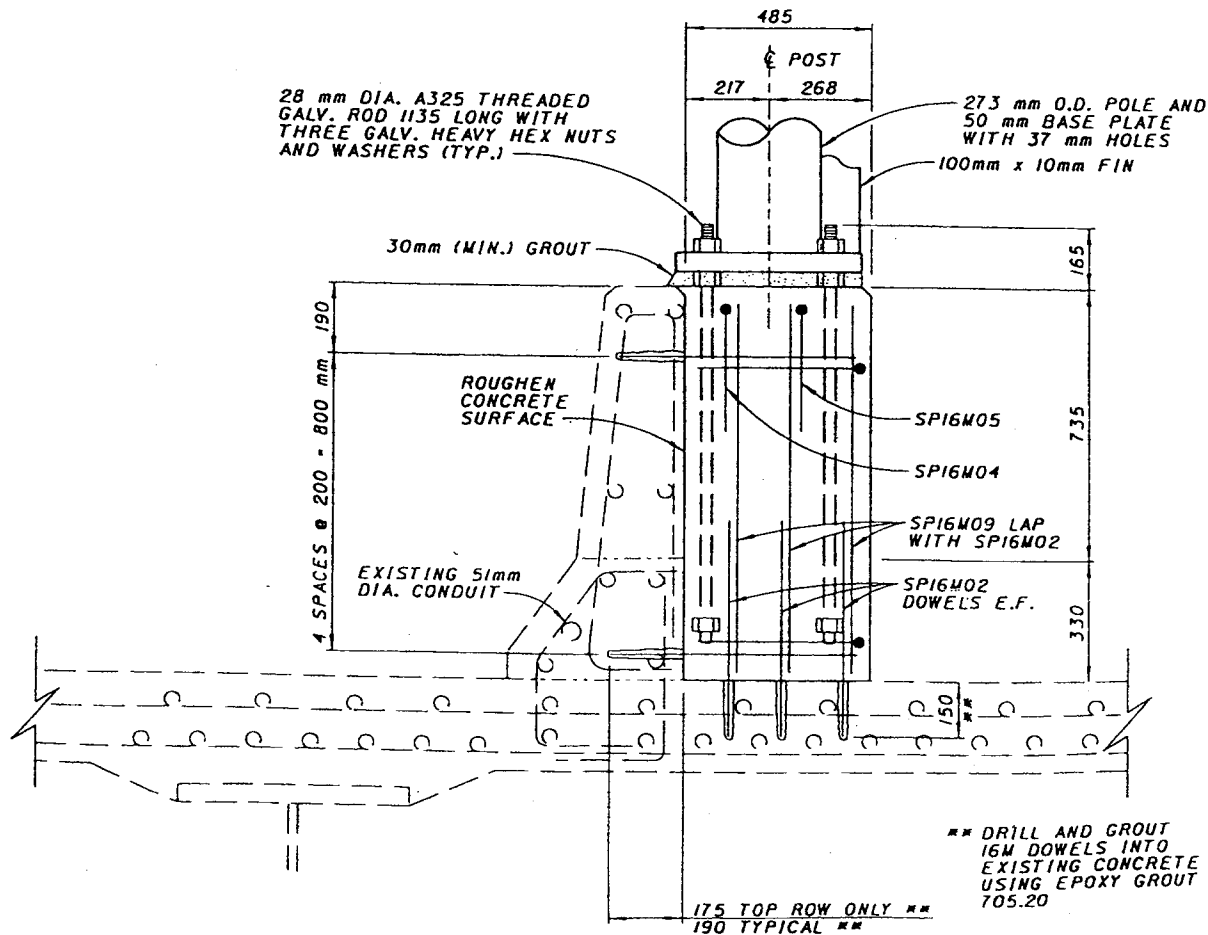
POLE PILASTER PLAN

POLE #401 STA. 401+738:
 POLE #402 STA. 401+788:
 POLE #403 STA. 401+811:

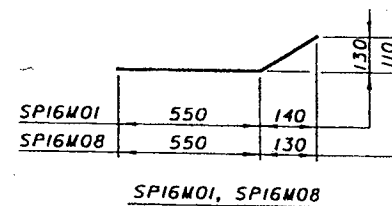
POLE FOUNDATION #401, #402 AND #403 REINFORCING STEEL LIST *

MARK	NUMBER	LENGTH (mm)	WEIGHT (kg.)	SHAPE
SPI6M01	24 ✓	740	28	BENT
SPI6M02	36 ✓	620	35	STR.
SPI6M03	15 ✓	1520	35	BENT
SPI6M04	3 ✓	1570	7	BENT
SPI6M05	3 ✓	1210	6	BENT
SPI6M06		NOT USED		
SPI6M07	9 ✓	600	8	STR.
SPI6M08	6 ✓	720	7	BENT
SPI6M09	18 ✓	1000	28	STR.
TOTAL FOR THREE FOUNDATIONS - 154				

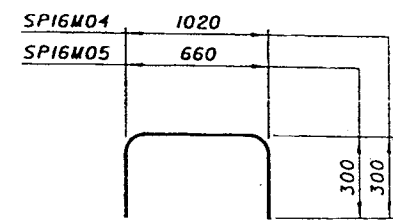
* SHOWN FOR INFORMATION ONLY. REINFORCING COST TO BE INCLUDED WITH POLE FOUNDATION UNIT COST FOR PAYMENT.



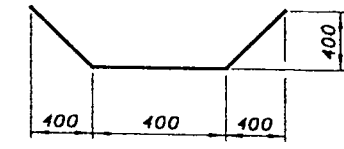
SECTION A



SPI6M01, SPI6M08



SPI6M04, SPI6M05

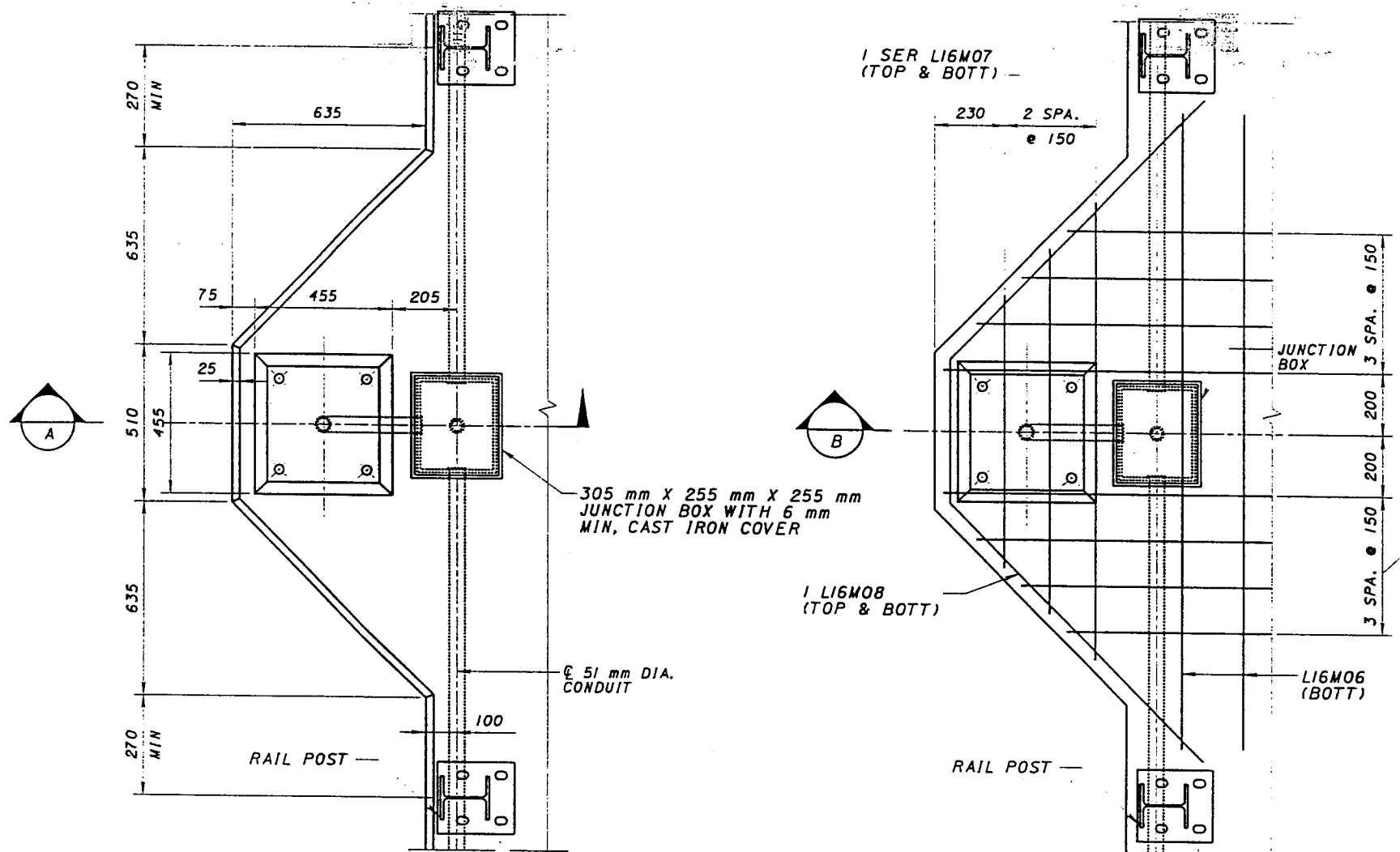


SPI6M03

2/8/00

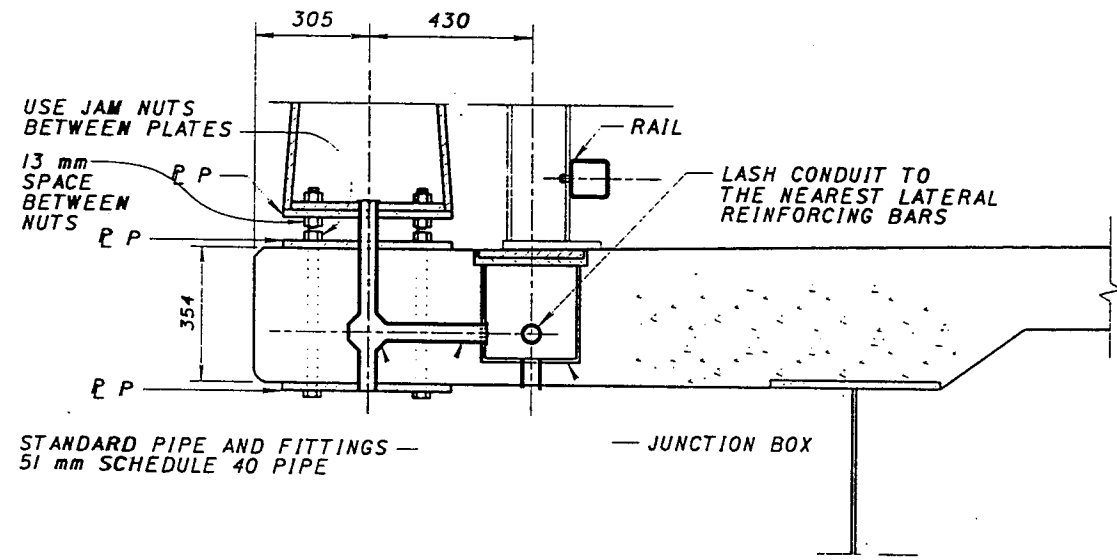
2/8/00

2/8/00

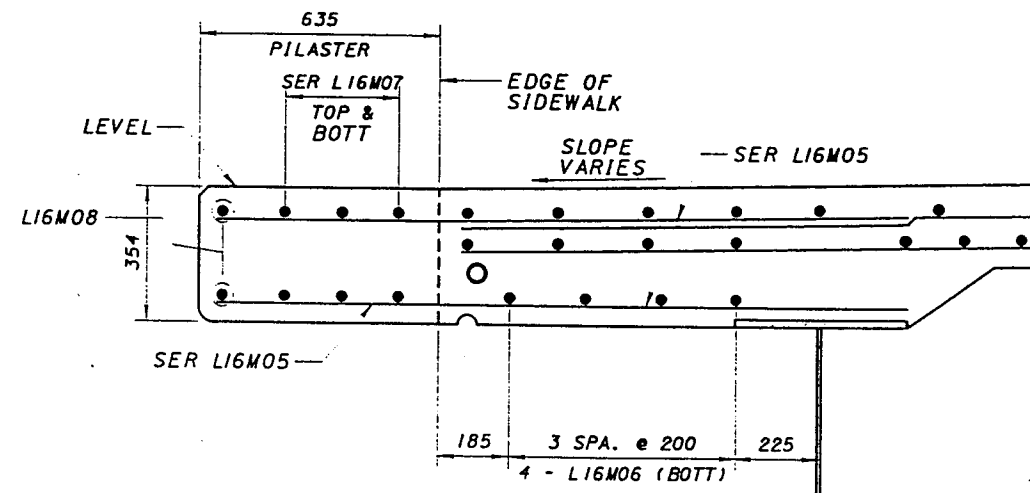


LIGHT POLE PILASTER @ SIDEWALK

**LIGHT POLE PILASTER @ SIDEWALK
SHOWING REINFORCING STEEL**



SECTION A



SECTION B

REINFORCING STEEL LIST-ONE PILASTER								
MARK	NO.	LENGTH	TYPE	A	B	C	D	E
L16M05	4 SER OF 4	1670 AVG	5	1520	1820			
L16M06	4	2000	STR					
L16M07	2 SER OF 3	1100 AVG	5	800	1400			
L16M08	2	2750	4					

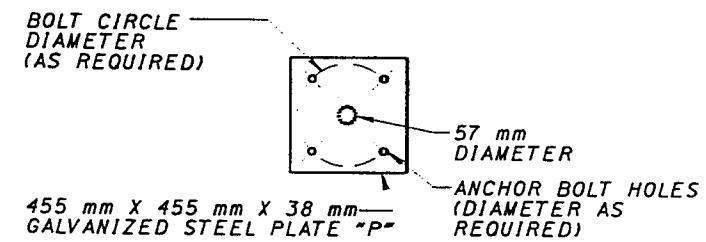
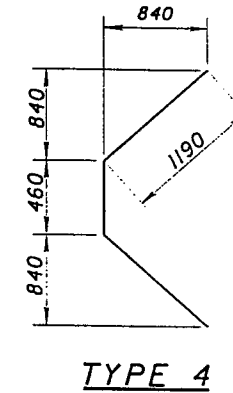
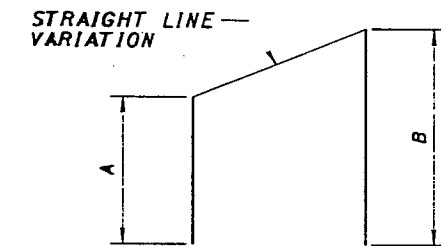


PLATE "P"
(3 REQUIRED PER POLE)



TYPE 4



**TYPE 5
SERIES BARS**

NOTES:

- FOR LIGHT POLE PILASTER DETAILS NOT SHOWN, SEE STD. DWG. HL-20.14M AND HL-20.15M.
- 51 mm DIA. CONDUIT, ANCHOR BOLTS AND JUNCTION BOX INCLUDED WITH LIGHTING ITEMS.

REVISION NO.	DESCRIPTION	DATE	BY
5	NEW SHEET	2-8-00	LAE

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET SUITE 2500
CINCINNATI, OH 45202-2720

DECK DETAILS - 2A
BRIDGE NO. 4
RAMP B

CITY OF CINCINNATI
CONTRACT NO. 75X5753

160/180

REVISION NO. 5
FEB. 8, 2000

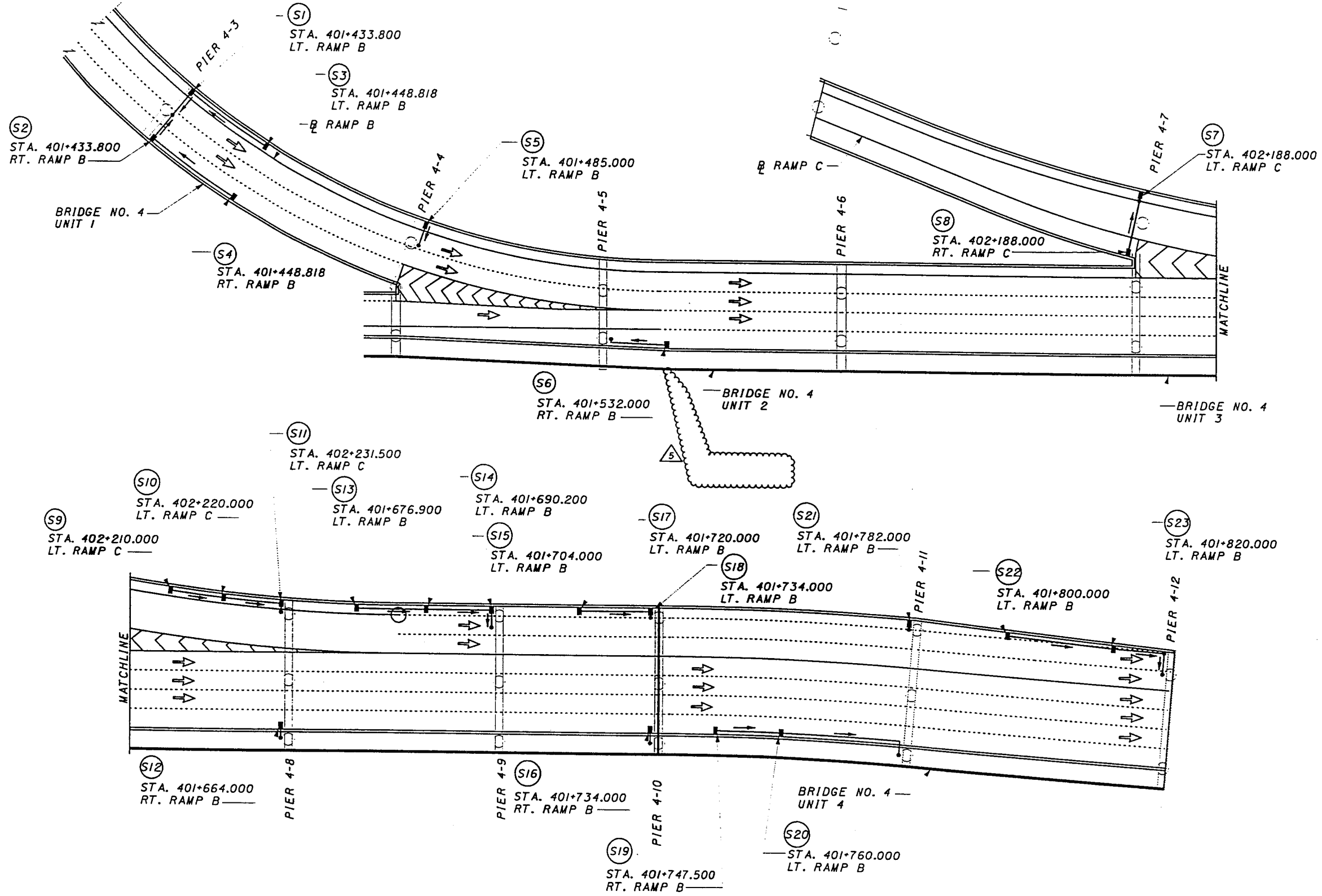
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232

Tue Feb 8 16:37:56 2000

2/8/00

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REVISION NO.	DESCRIPTION	DATE	BY
5	REVIEW BY SMOYRAIN	2-8-00	LAE
4	REVIEWED	DATE	DESIGN AGENCY
3	EB	REVIEWED	PARSONS BRINCKERHOFF, INC.
2	CBS	DATE	32 ELM STREET, SUITE 2500
1	REVIEWED	DATE	CINCINNATI, OH 45202-2720

DECK DRAINAGE PLAN
BRIDGES NO. 2 & 4
RAMPS B & C

CITY OF CINCINNATI
CONTRACT No. 75X5753

162/180

REVISION NO. 5
FEB. 8, 2000

214
232

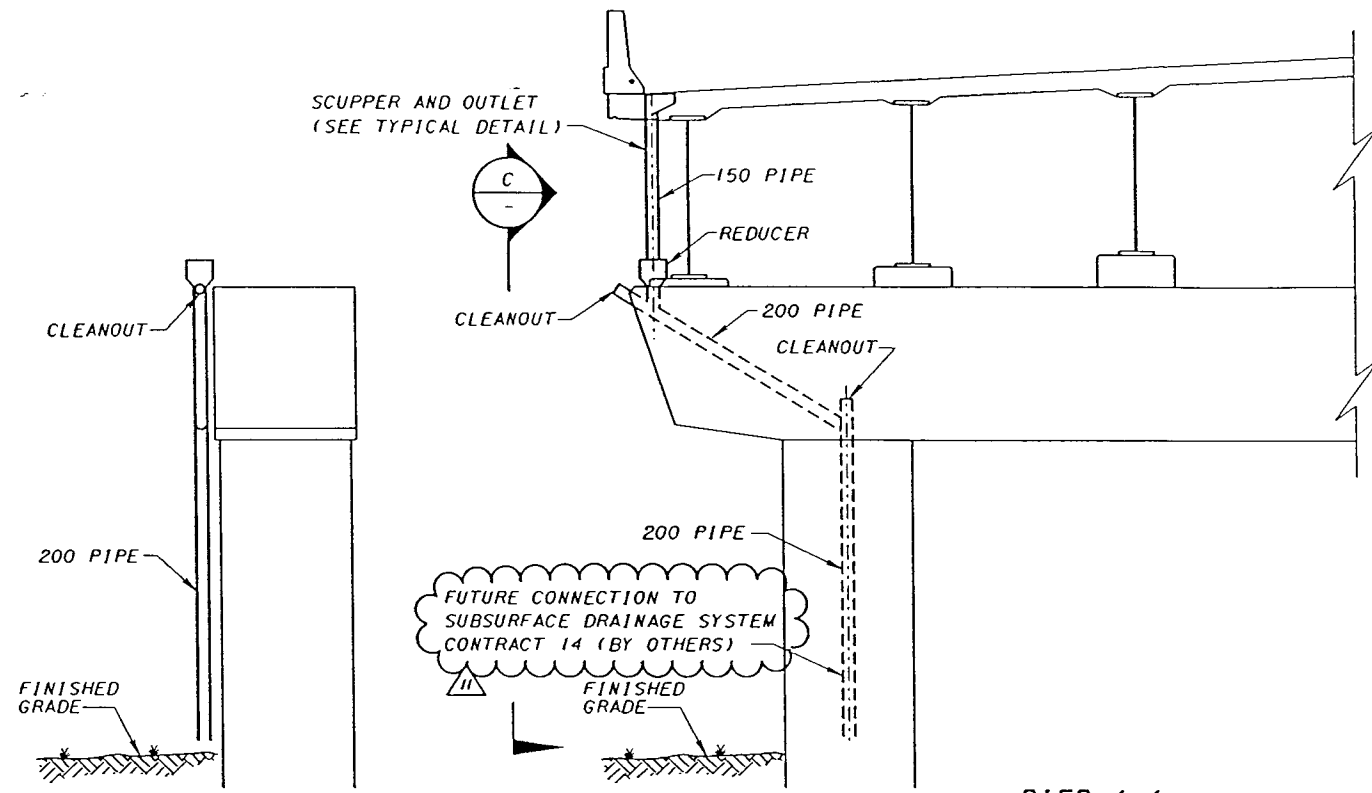
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10/25/99

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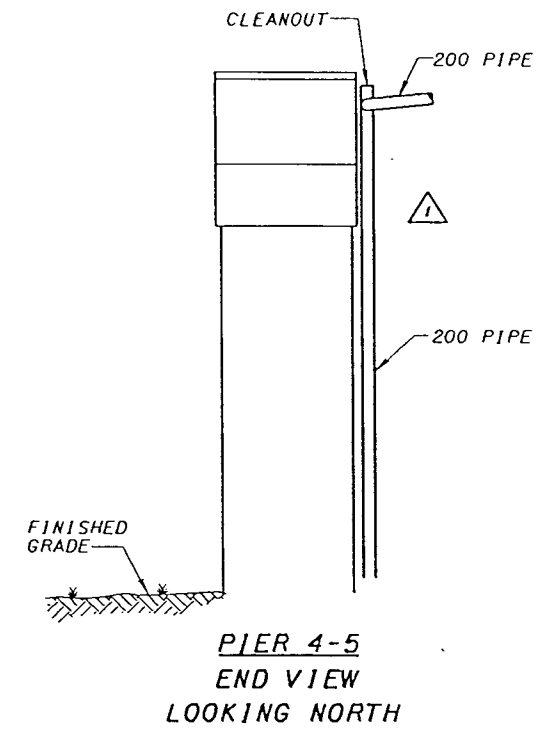
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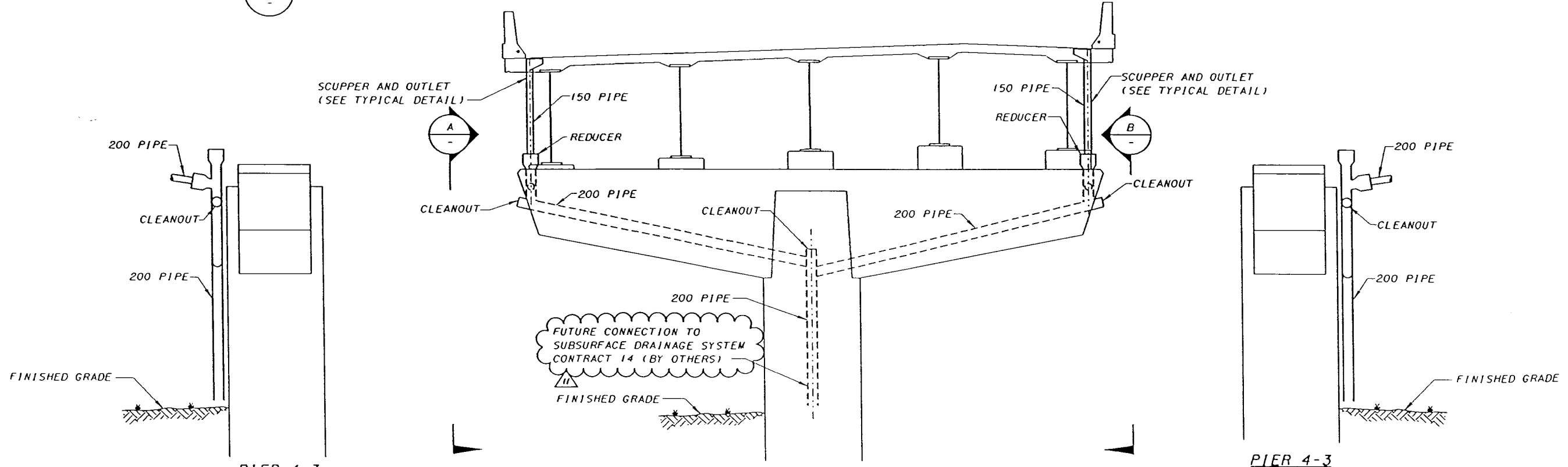


PIER 4-4
VIEW

PIER 4-4
ELEVATION



PIER 4-5
END VIEW
LOOKING NORTH



PIER 4-3
VIEW

PIER 4-3
ELEVATION

PIER 4-3
VIEW

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM	PIER ELEVATION	7-22-98	CBS
CONTINGENCY/ALLOCATION	REVISED NOTE	10/01/99	JC

DESIGNED	DRAWN	REVIEWED	DATE
EB	CBS	JC	10/01/99
CHECKED	REVISED	STRUCTURE FILE NUMBER	3103412

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

DECK DRAINAGE DETAILS - 1
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

163

CA-11
 OCT 1 1999

215
 232

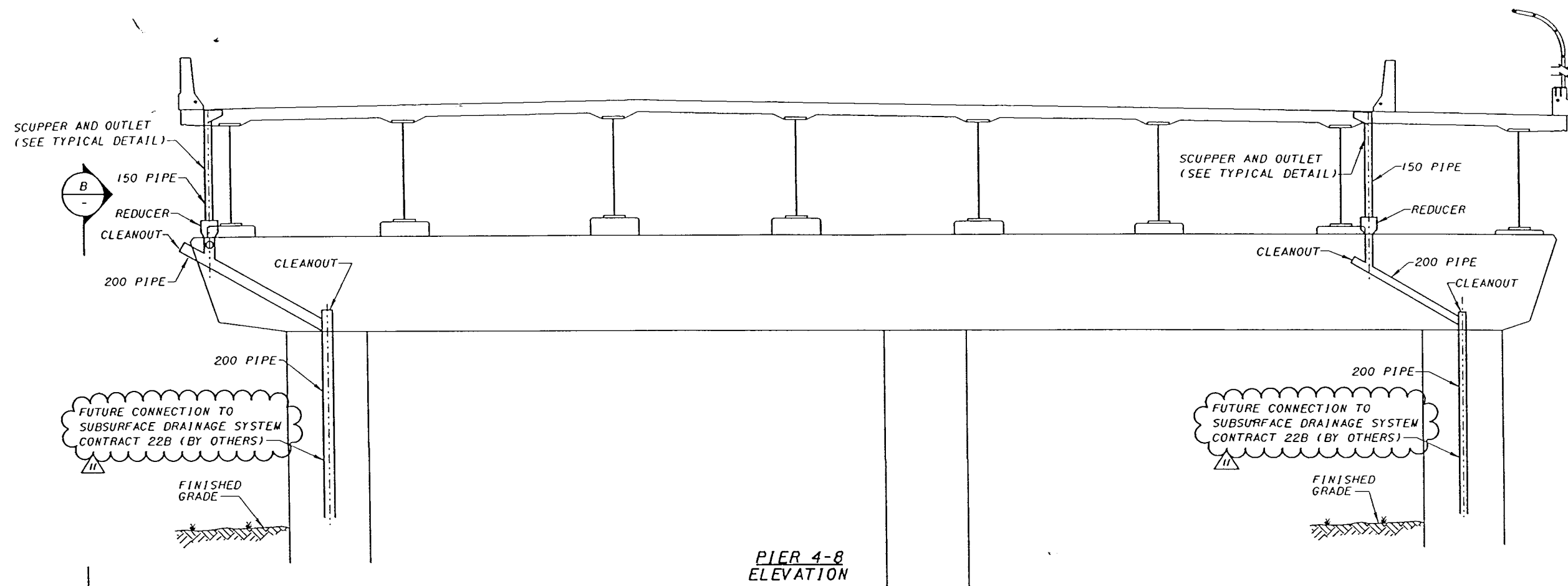
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10/25/99

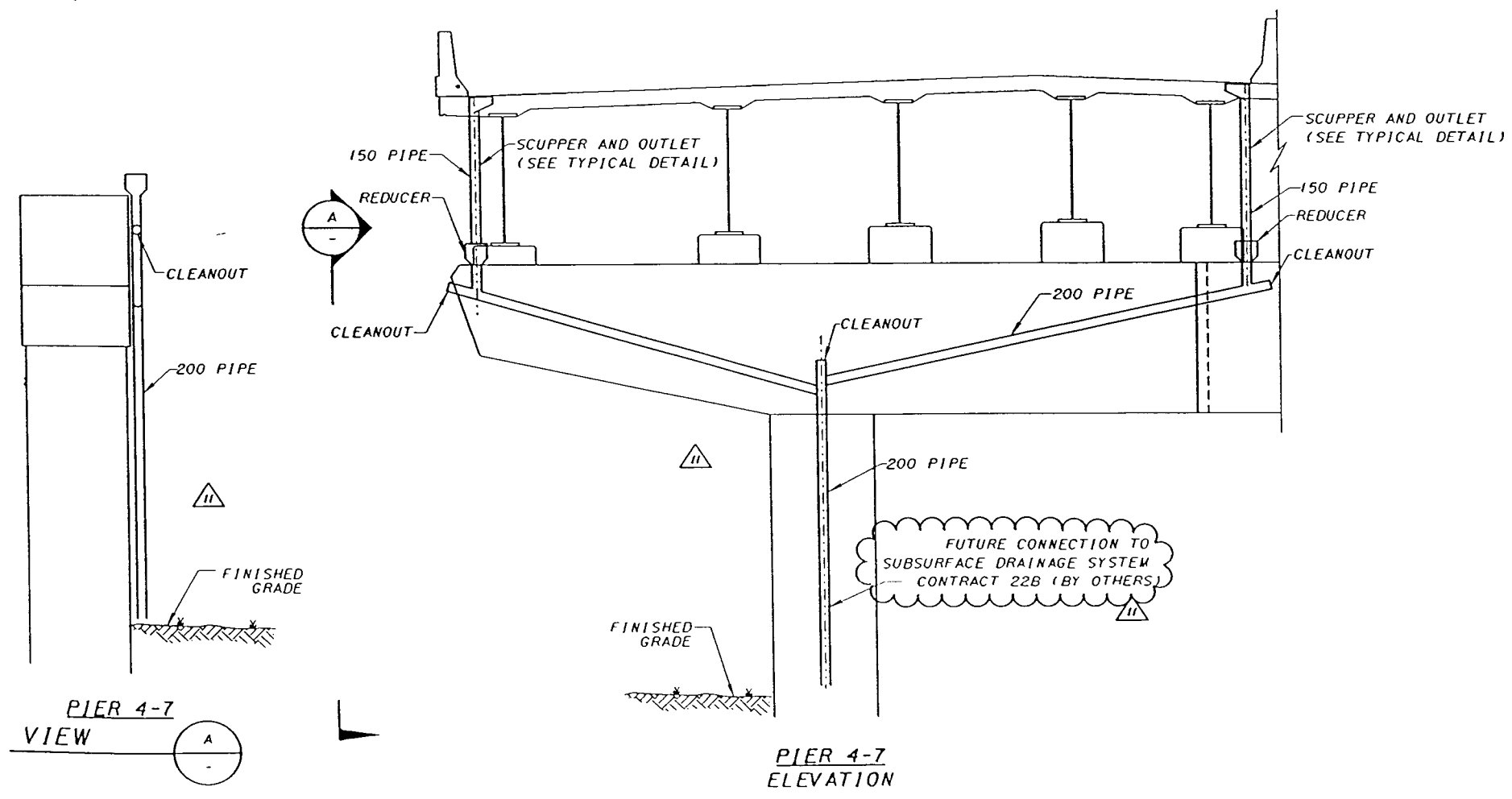
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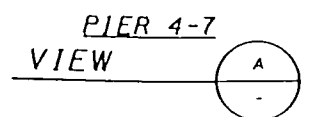
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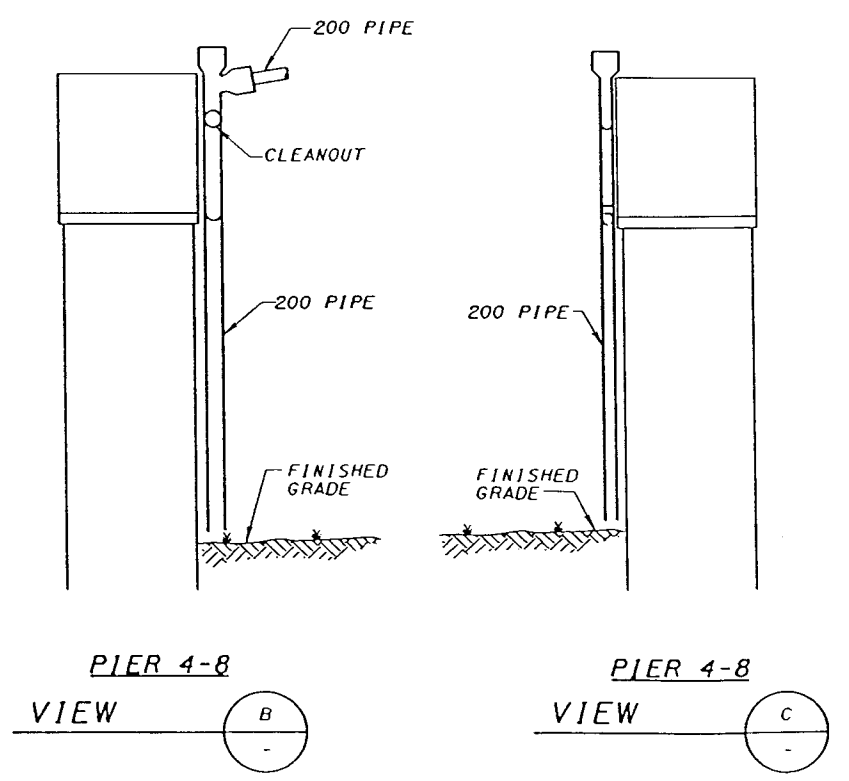
PIER 4-8 ELEVATION



PIER 4-7 ELEVATION



PIER 4-7 VIEW



PIER 4-8 VIEW B

PIER 4-8 VIEW C

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM A	PIER ELEVATION	7-22-88	CBS
CONTINGENCY ALLOCATION	REVISED NOTE	10/01/99	JC

DESIGNED	DATE	DESIGN AGENCY
EB		PARSONS BRINCKERHOFF, INC.
CHECKED		312 ELM STREET, SUITE 2500
DRAWN		CINCINNATI, OH 45202-2720
REVISED		
		STRUCTURE FILE NUMBER
		3103412

DECK DRAINAGE DETAILS - 2
BRIDGES NO. 2 & 4
RAMPS B & C

CITY OF CINCINNATI
CONTRACT No. 75X5753

164

CA-11
OCT. 1, 1999

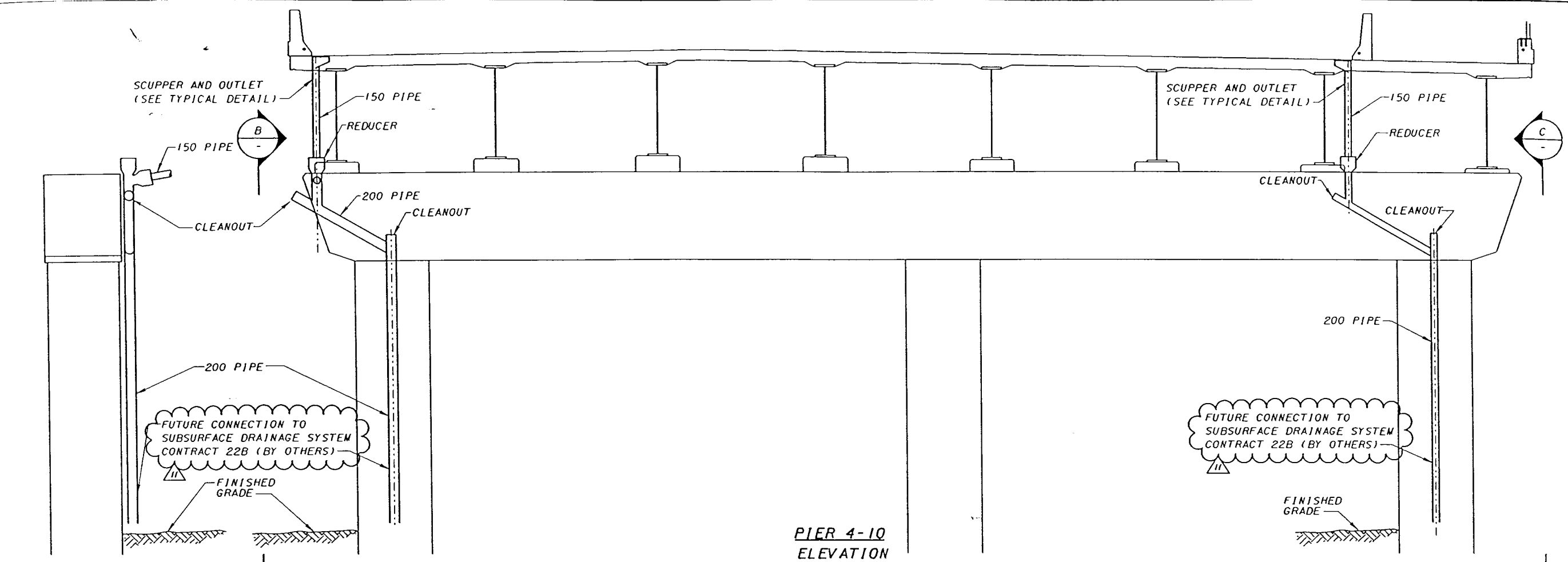
216
232

10/25/99 Mon Oct 25 11:29:31 1999

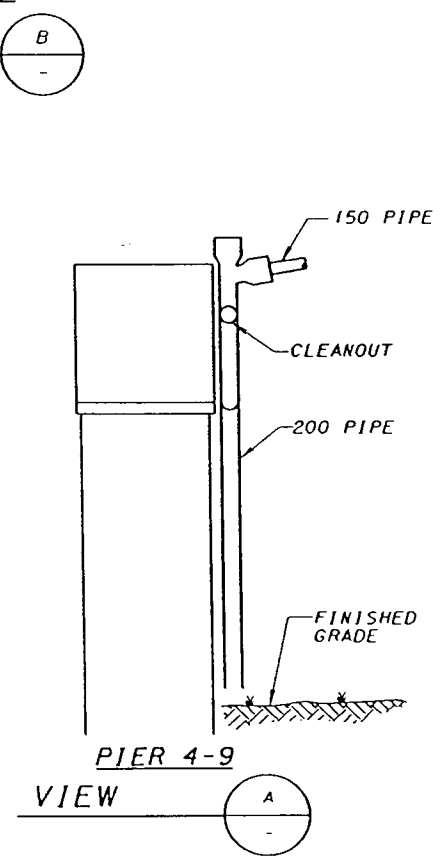
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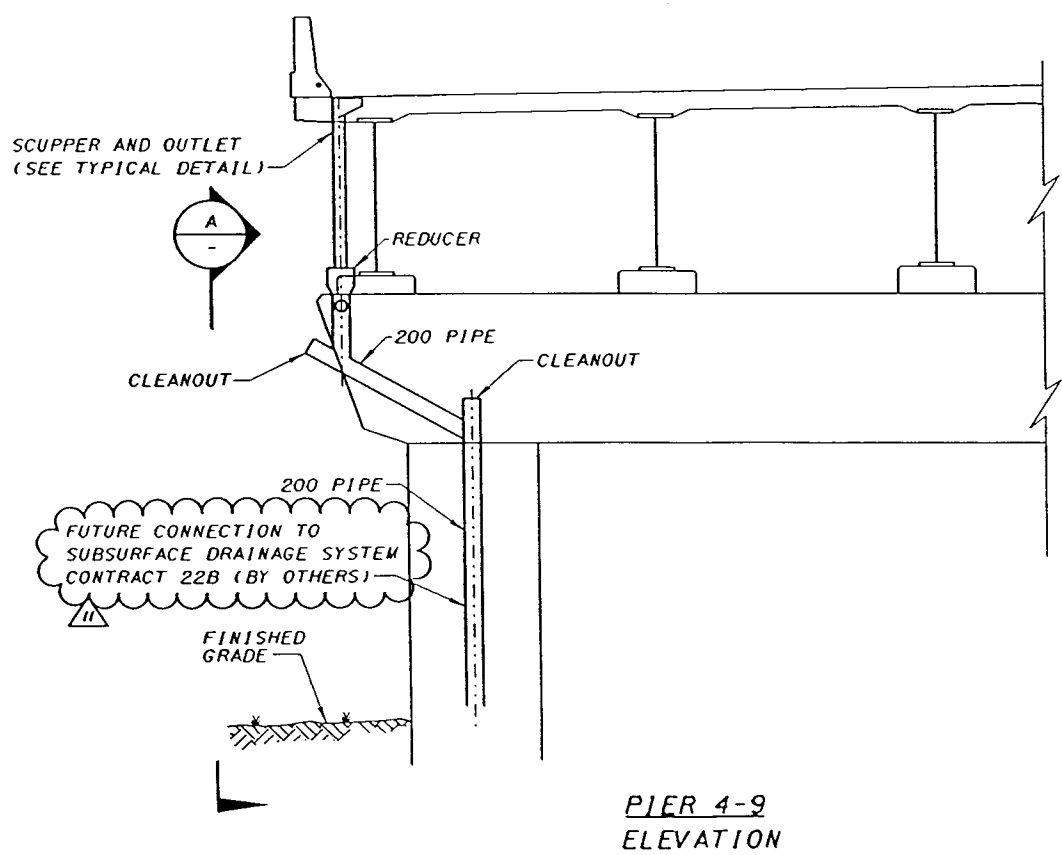
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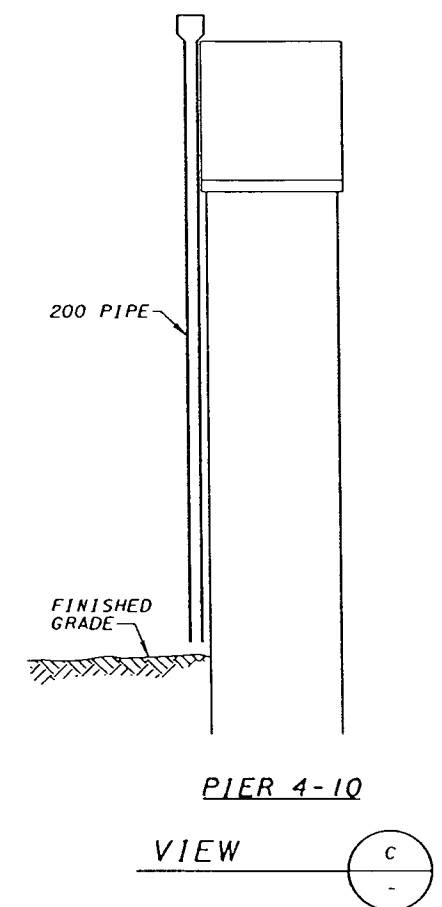
PIER 4-10
VIEW



PIER 4-9
VIEW



PIER 4-9
ELEVATION



PIER 4-10
VIEW

REVISION NO.	DESCRIPTION	DATE	BY
CONTINGENCY/ALLOCATION		10/01/99	JC
DESIGNED	DRAIN	REVIEWED	DESIGN AGENCY
CHECKED	CBS	DATE	PARSONS BRINCKERHOFF, INC.
REVISION	REVIEWED	STRUCTURE FILE NUMBER	312 ELM STREET SUITE 2500
			CINCINNATI, OH 45202-2720

DECK DRAINAGE DETAILS - 3	
BRIDGE NO. 4	
RAMP B	
CITY OF CINCINNATI	CONTRACT No. 75X5753
165	217
	232

CA-11
OCT. 1, 1999

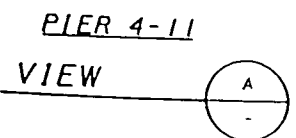
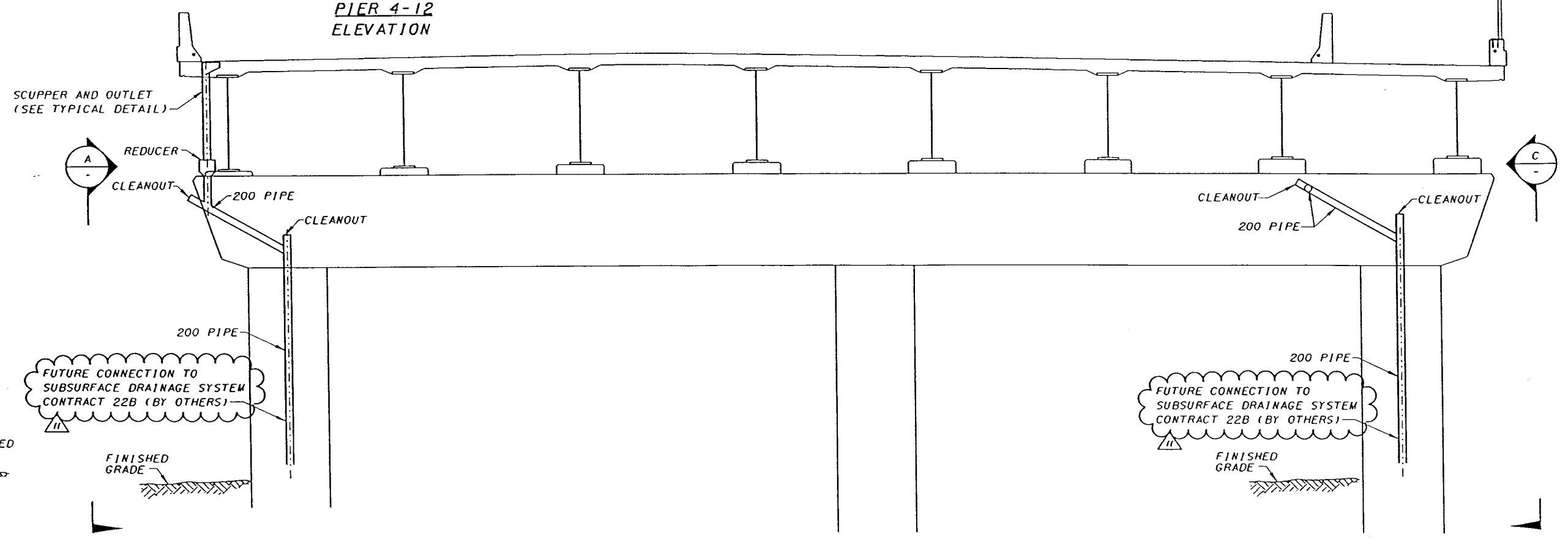
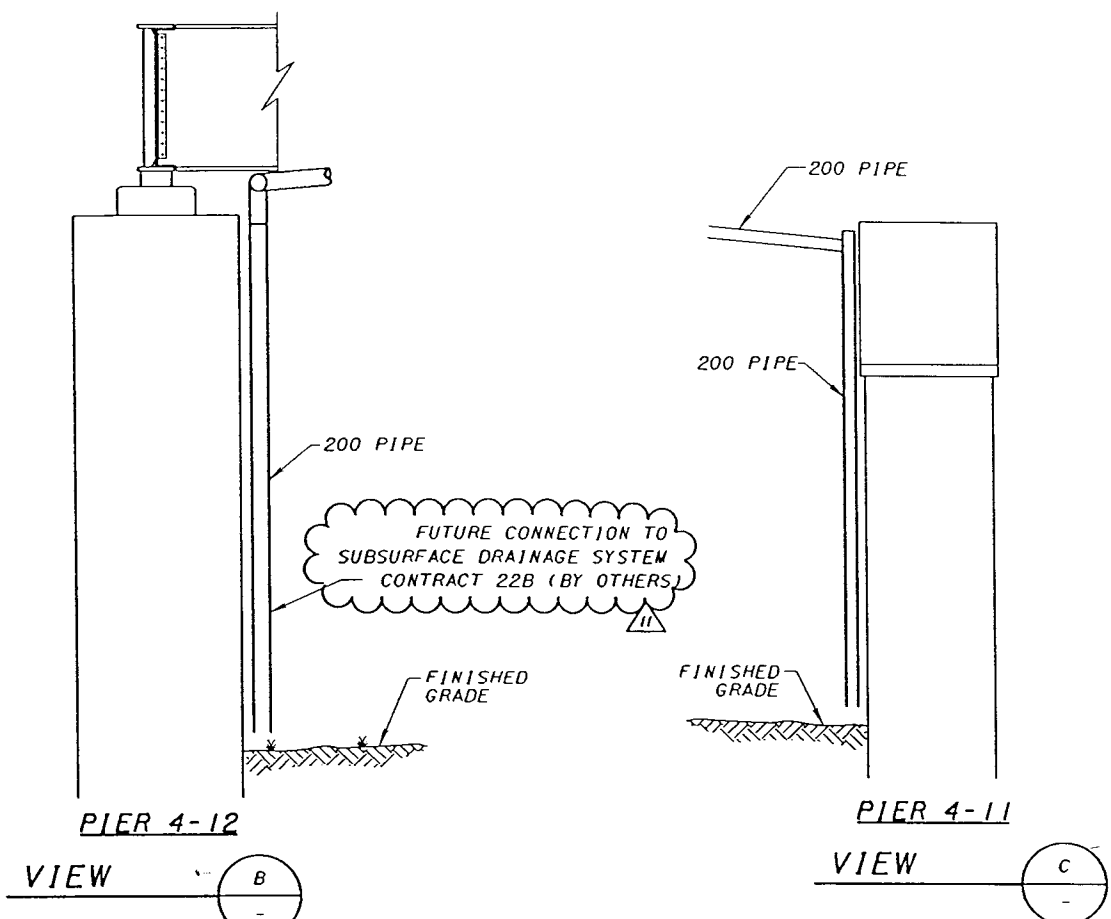
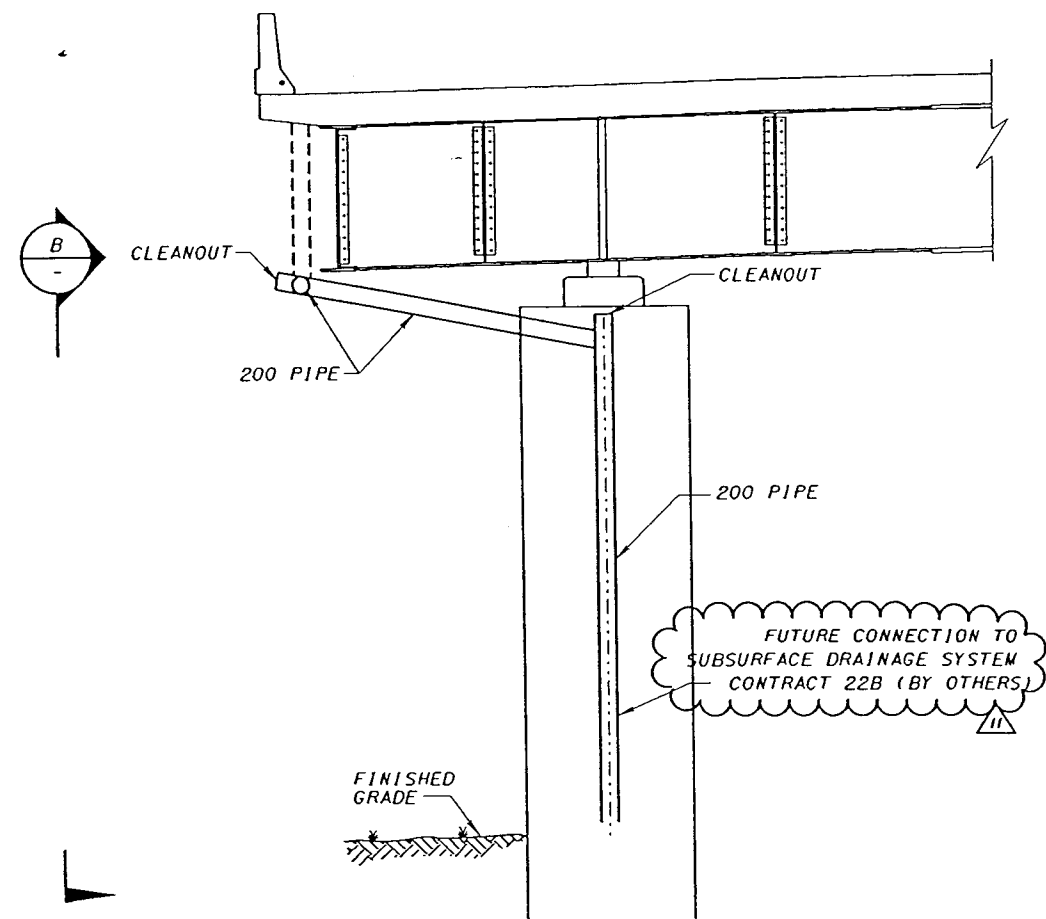
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10/26/99

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I:\fw\contract



REVISION NO.	DESCRIPTION	DATE	BY
CONTINGENCY ALLOCATION		10/01/99	JC
DESIGNED	DRYAN	REVIEWED	DATE
CHECKED	EB	3/10/31/2	
REVISOR	CBS	STRUCTURE FILE NUMBER	
		PARSONS BRINCKERHOFF, INC.	
		312 ELM STREET, SUITE 2500	
		CINCINNATI, OH 45202-2720	

DECK DRAINAGE DETAILS - 4
BRIDGES NO. 2 & 4
RAMPS B & C

CITY OF CINCINNATI
CONTRACT No. 75X5753

166

218
232

CA-11
OCT. 1, 1999

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232

167/180

CITY OF CINCINNATI
CONTRACT No. 75X5753

DECK DRAINAGE DETAILS - 5
BRIDGE NO. 4
RAMP B

DESIGNED
EB
CHECKED

DRAWN
CBS
REVISED

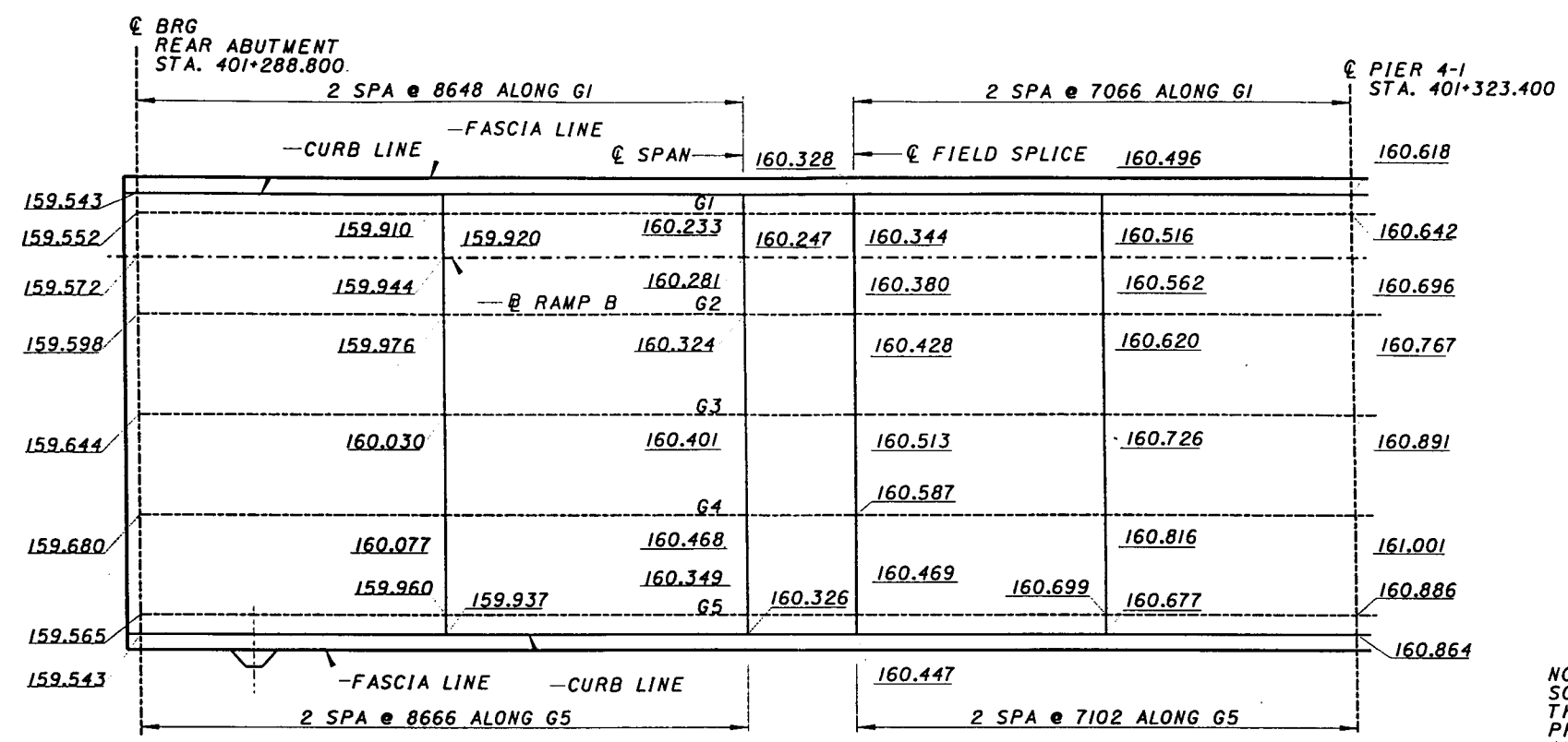
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STRUCTURE FILE NUMBER
3/1034/2

DATE
3/1034/2

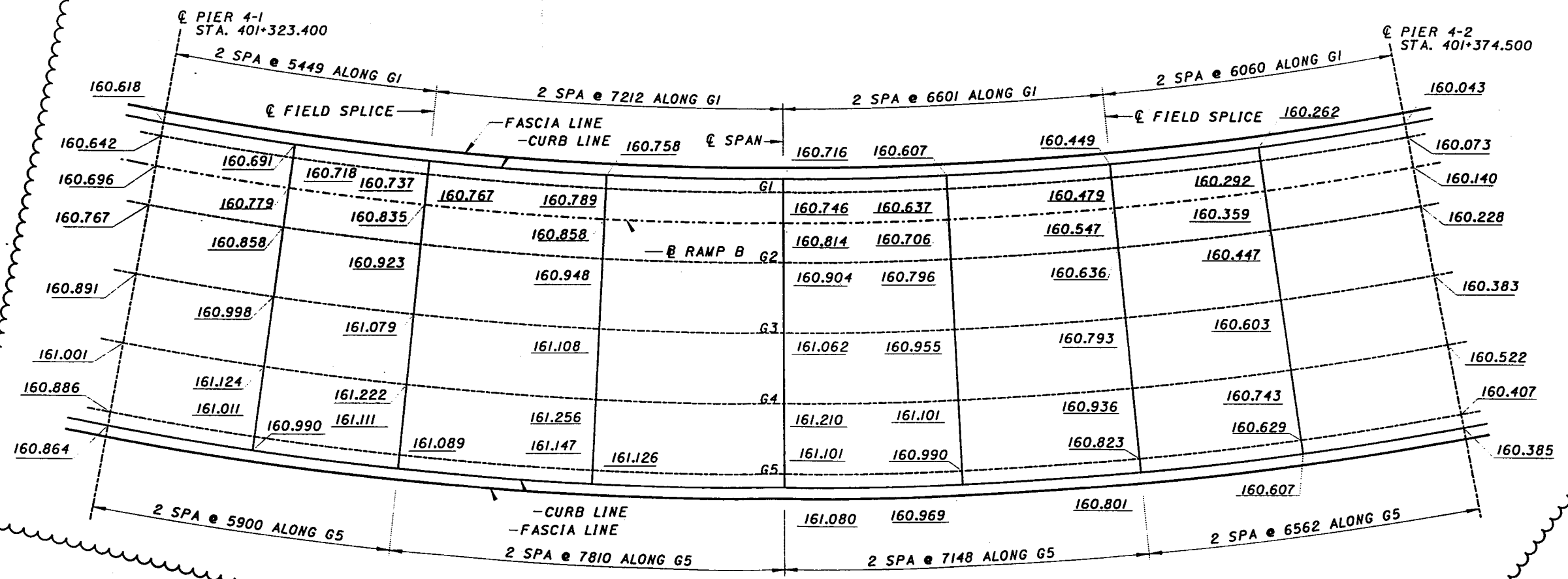


DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

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 9/3/99
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NOTE:
 SCREED ELEVATIONS SHOWN ARE FOR THE TOP OF THE DECK SLAB SURFACE PRIOR TO CONCRETE PLACEMENT. ALLOWANCE HAS BEEN MADE FOR ANTICIPATED CALCULATED DEFLECTION DUE TO THE WEIGHT OF THE WEARING COURSE, SLAB, AND RAILINGS.



REVISION NO.	DESCRIPTION	DATE	BY
3	SCREED CHANGES	9-07-99	MCG

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 112 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2770

DRAWN: CBS
 CHECKED: MJD
 REVISION: 3
 DATE: 9/3/99
 STRUCTURE FILE NUMBER: 3103412

SCREED ELEVATIONS - 1
 BRIDGE NO. 4
 RAMP B

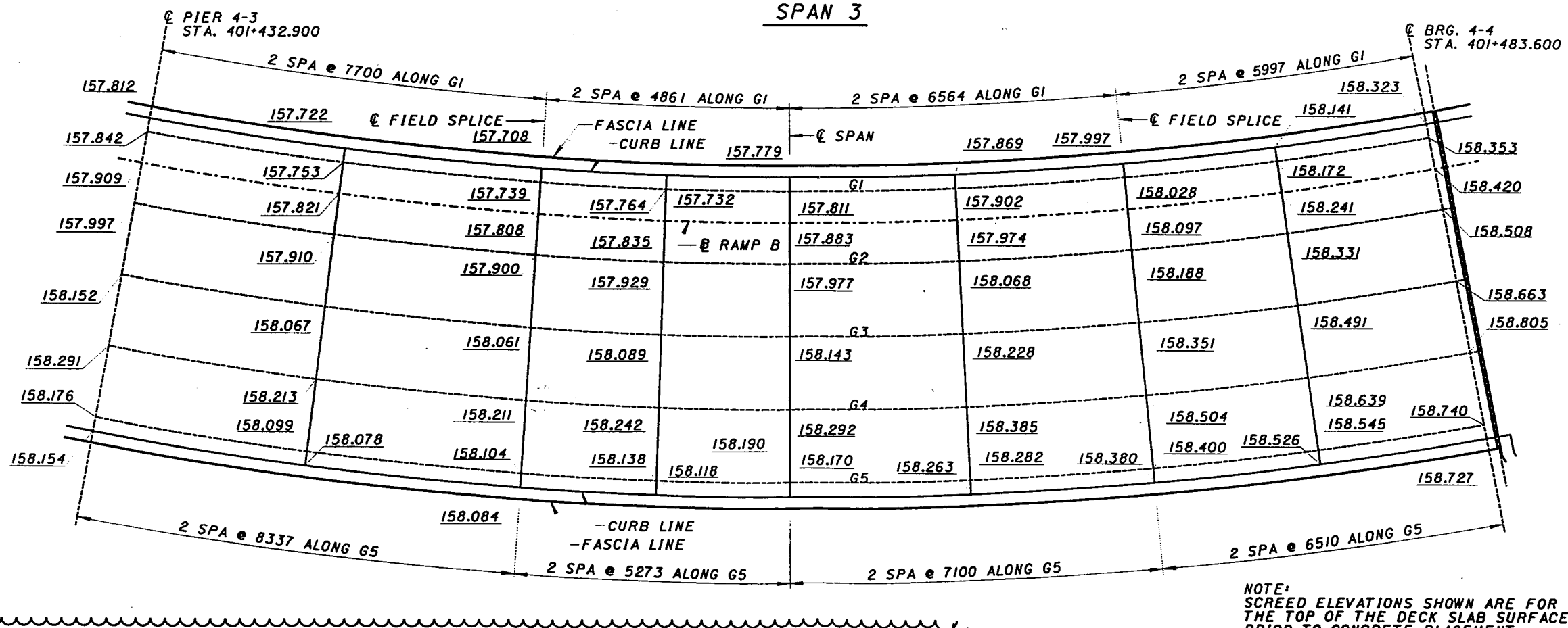
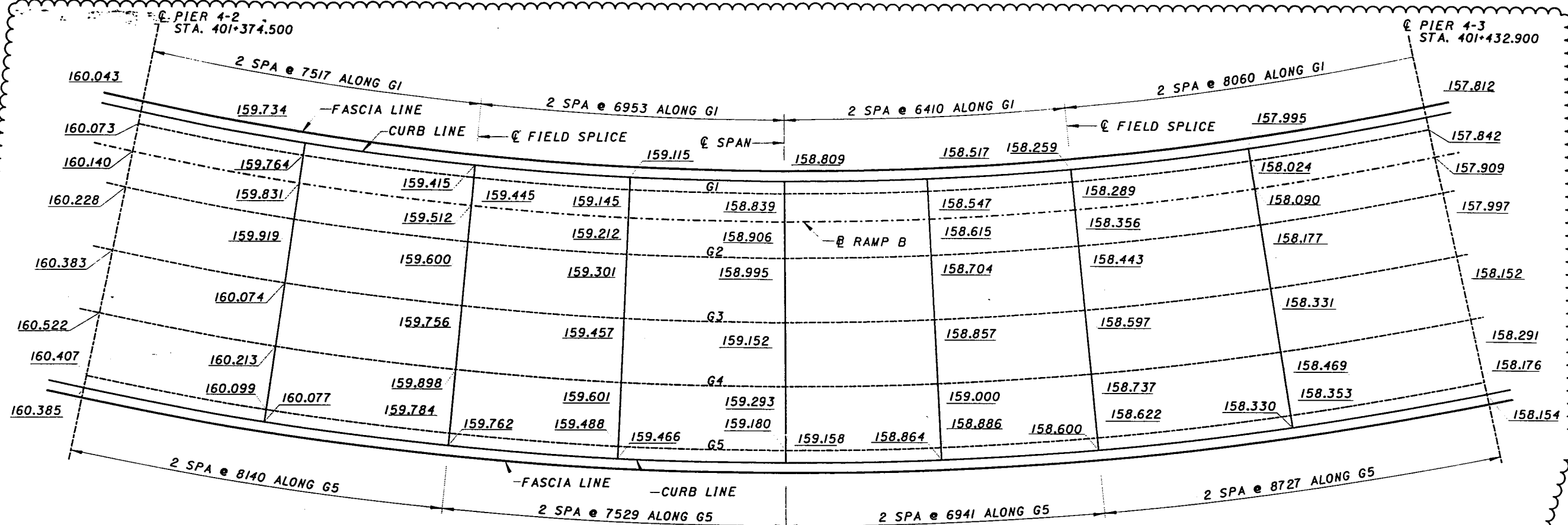
CITY OF CINCINNATI
 CONTRACT NO. 75X5753

168/180

REVISION NO. 3
 SEPT 7, 1999

220
 232

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NOTE:
 SCREED ELEVATIONS SHOWN ARE FOR
 THE TOP OF THE DECK SLAB SURFACE
 PRIOR TO CONCRETE PLACEMENT.
 ALLOWANCE HAS BEEN MADE FOR
 ANTICIPATED CALCULATED DEFLECTION
 DUE TO THE WEIGHT OF THE WEARING
 COURSE, SLAB, AND RAILINGS.

REVISION NO.	DESCRIPTION	DATE	BY
REVISION 3	SCREED CHANGES	9-07-99	MCG
DESIGNED	DATE	DESIGN AGENCY	
MJD		PARSONS BRINCKERHOFF, INC.	
CBS		312 ELM STREET, SUITE 2500	
CHECKED	TRUCKING FILE NUMBER	CINCINNATI, OH 45202-2720	
	3103412		

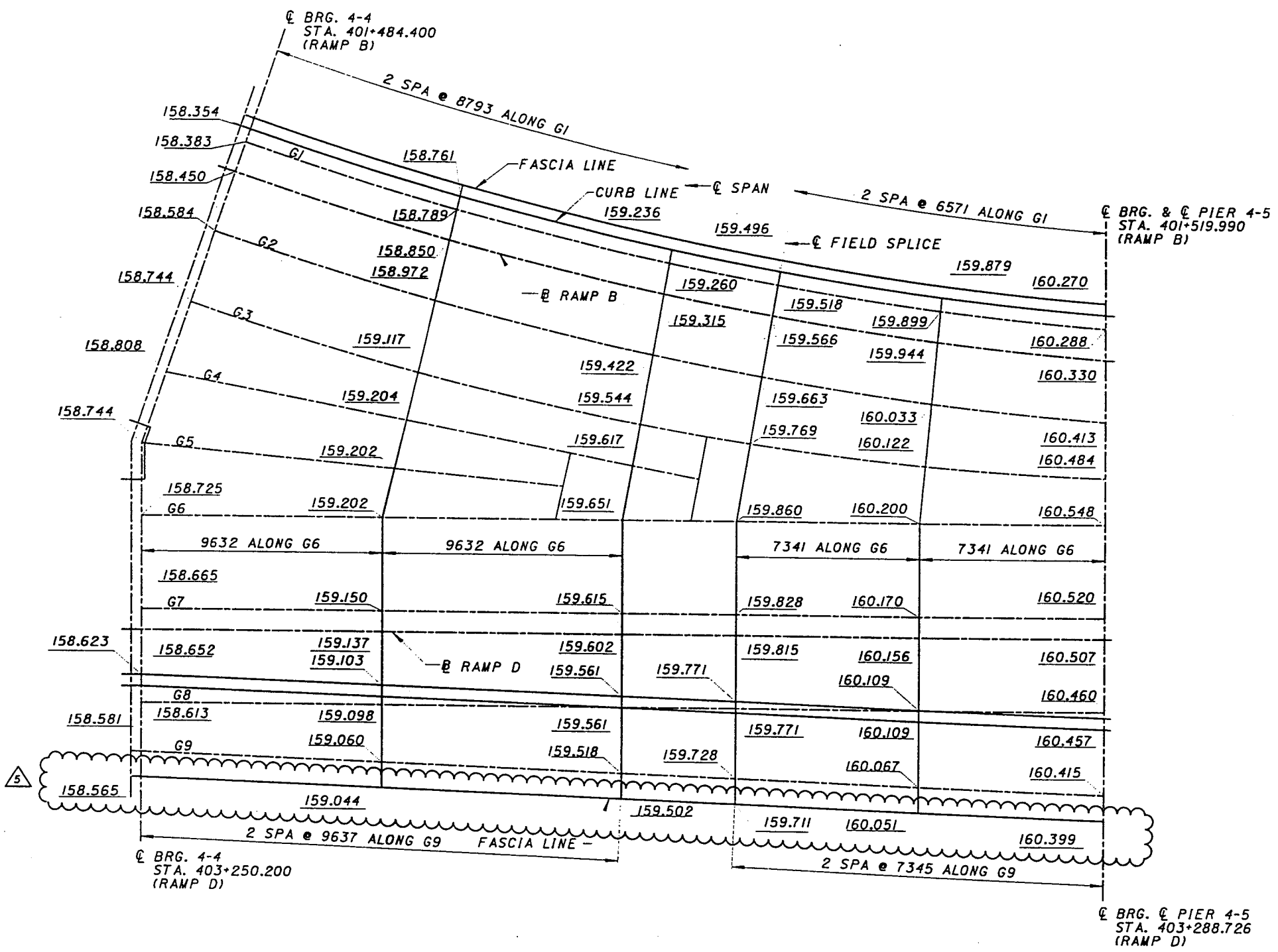
SCREED ELEVATIONS - 2
BRIDGE NO. 4
RAMP B

CITY OF CINCINNATI
CONTRACT No. 75X5753

169/180

REVISION NO. 3
SEPT 7, 1999

221
232



SPAN 5

NOTE:
 SCREED ELEVATIONS SHOWN ARE FOR THE TOP OF THE DECK SLAB SURFACE PRIOR TO CONCRETE PLACEMENT. ALLOWANCE HAS BEEN MADE FOR ANTICIPATED CALCULATED DEFLECTION DUE TO THE WEIGHT OF THE WEARING COURSE, SLAB, AND RAILINGS.

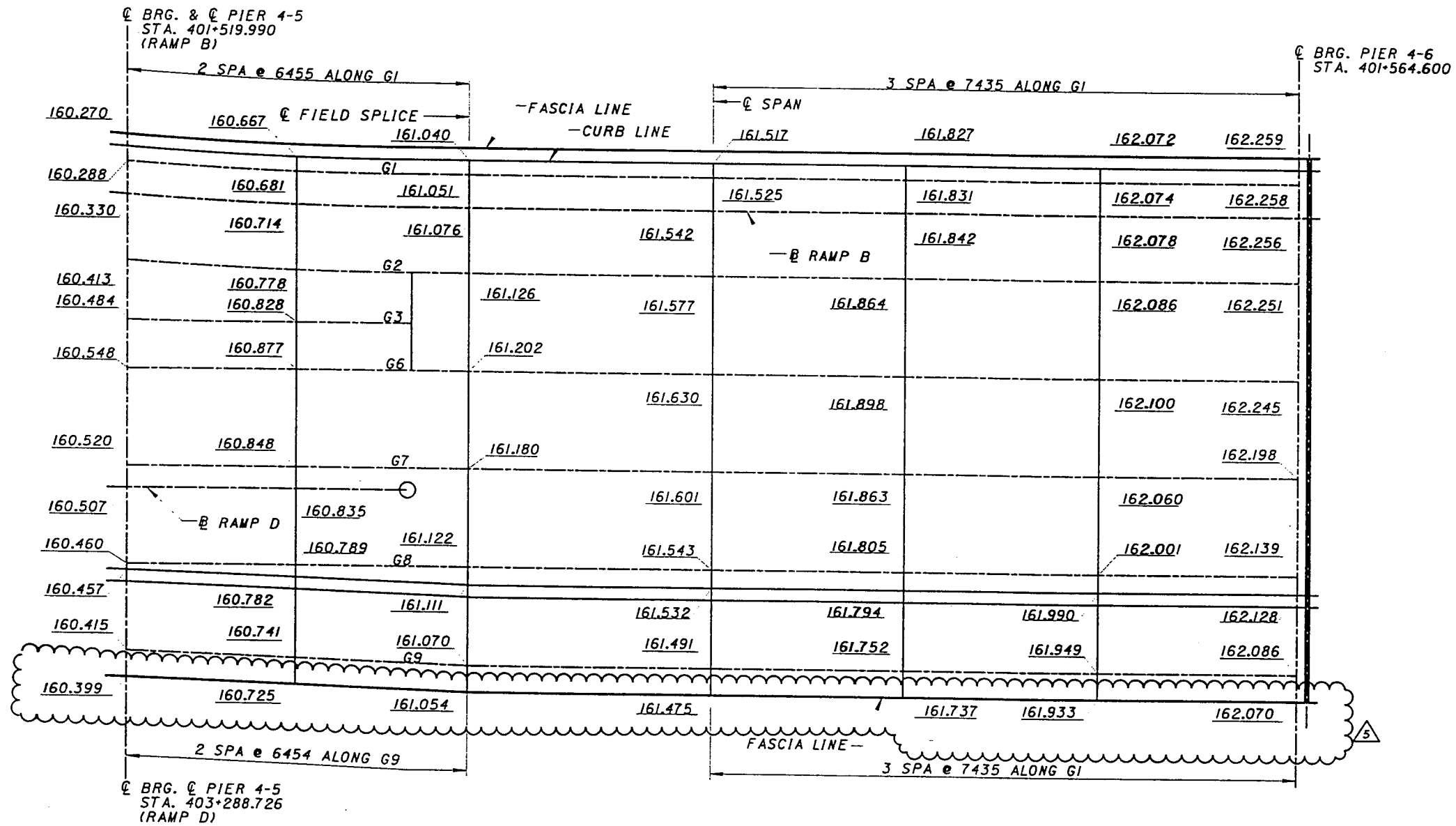
REVISION NO.	DESCRIPTION	DATE	BY
5	SCREED CHANGES	2-8-00	MCG

DESIGN AGENCY
PB
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

SCREED ELEVATIONS - 3
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

2/28/00
 Twp Feels R 12/28/00
 2/28/00
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SPAN 6

NOTE:
 SCREED ELEVATIONS SHOWN ARE FOR
 THE TOP OF THE DECK SLAB SURFACE
 PRIOR TO CONCRETE PLACEMENT.
 ALLOWANCE HAS BEEN MADE FOR
 ANTICIPATED CALCULATED DEFLECTION
 DUE TO THE WEIGHT OF THE WEARING
 COURSE, SLAB, AND RAILINGS.

REVISION NO.	DESCRIPTION	DATE	BY
5	SCREED CHANGES	2-8-00	LAE
DESIGNED	DATE	DESIGN AGENCY	
DRAWN	REVIEWED	PARSONS BRINCKERHOFF, INC.	
CBS	STRUCTURE FILE NUMBER	312 ELM STREET, SUITE 2500	
MJD	3103412	CINCINNATI, OH 45202-2170	
CHECKED			

SCREED ELEVATIONS - 4
BRIDGE NO. 4
RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

171 / 180

REVISION NO. 5
FEB. 8, 2000

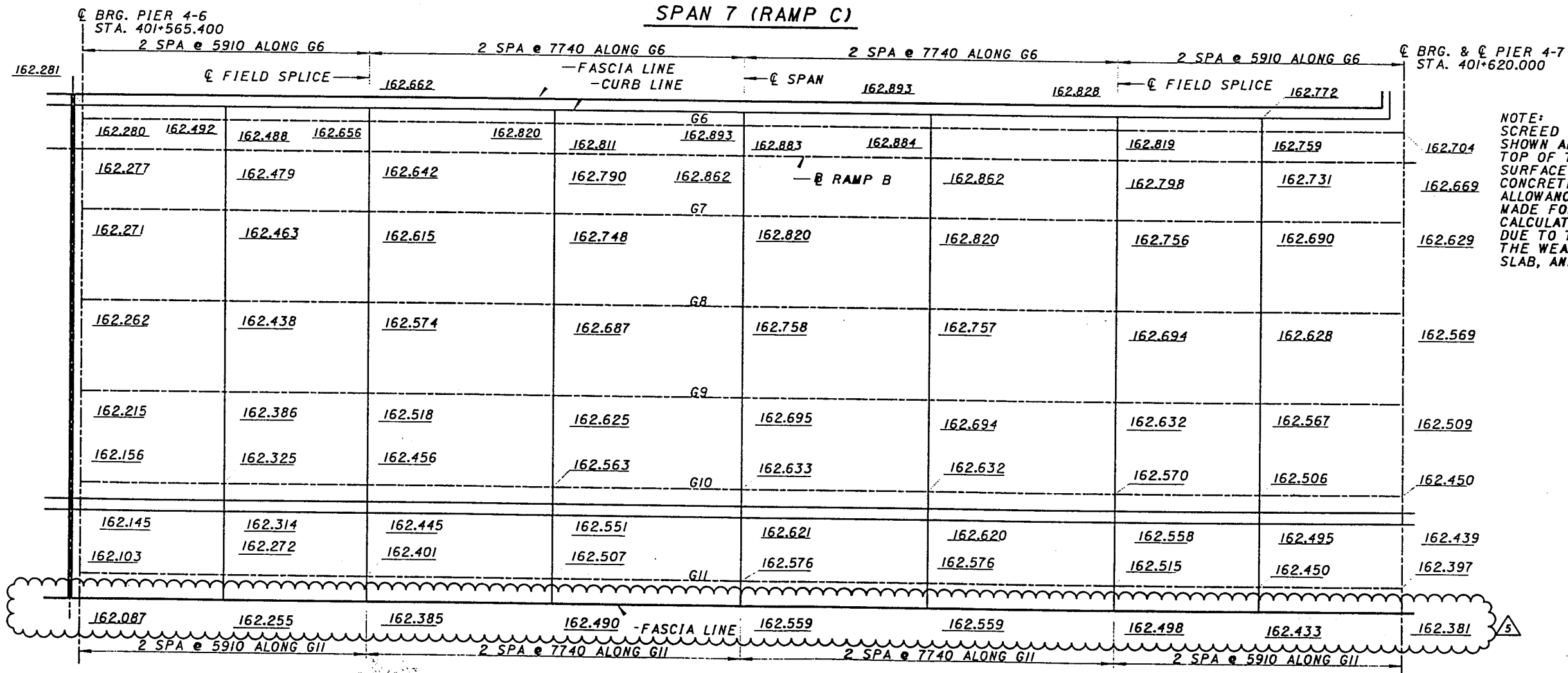
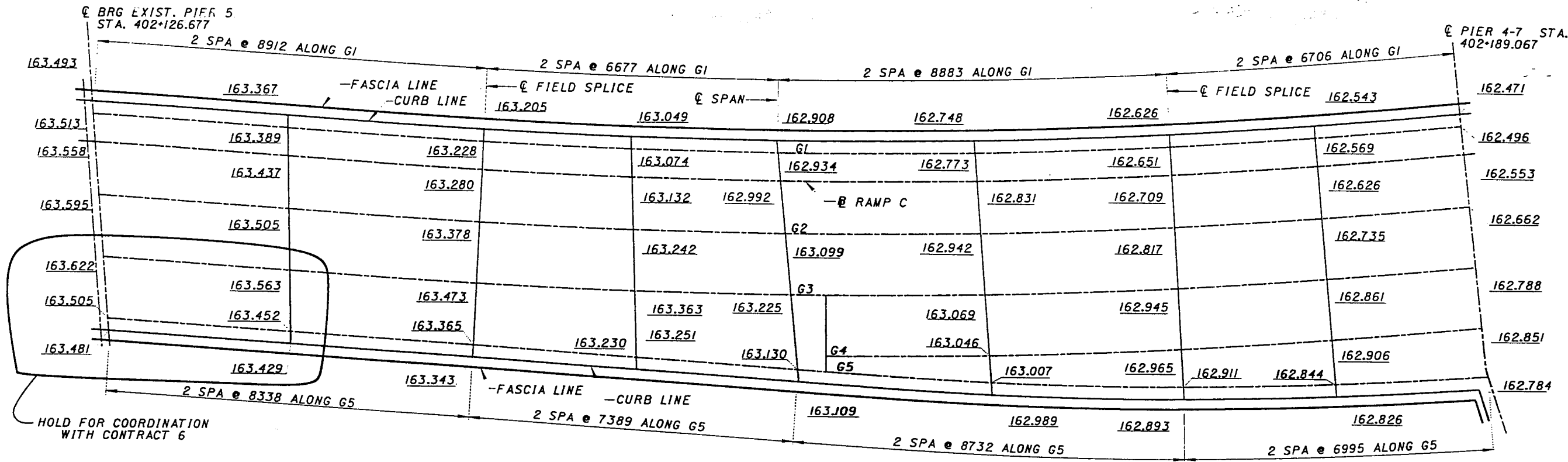
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REVISION NO.	DESCRIPTION	DATE	BY
5	SCREED CHANGES	2-8-00	CBS

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

DATE: 2-8-00
 BY: CBS

REVISION NO. 5
 DATE: 2-8-00
 BY: CBS

SCREED ELEVATIONS - 5
BRIDGES NO. 2 & 4
RAMPS B & C

CITY OF CINCINNATI
CONTRACT No. 75X5753

172/180

REVISION NO. 5
FEB. 8, 2000

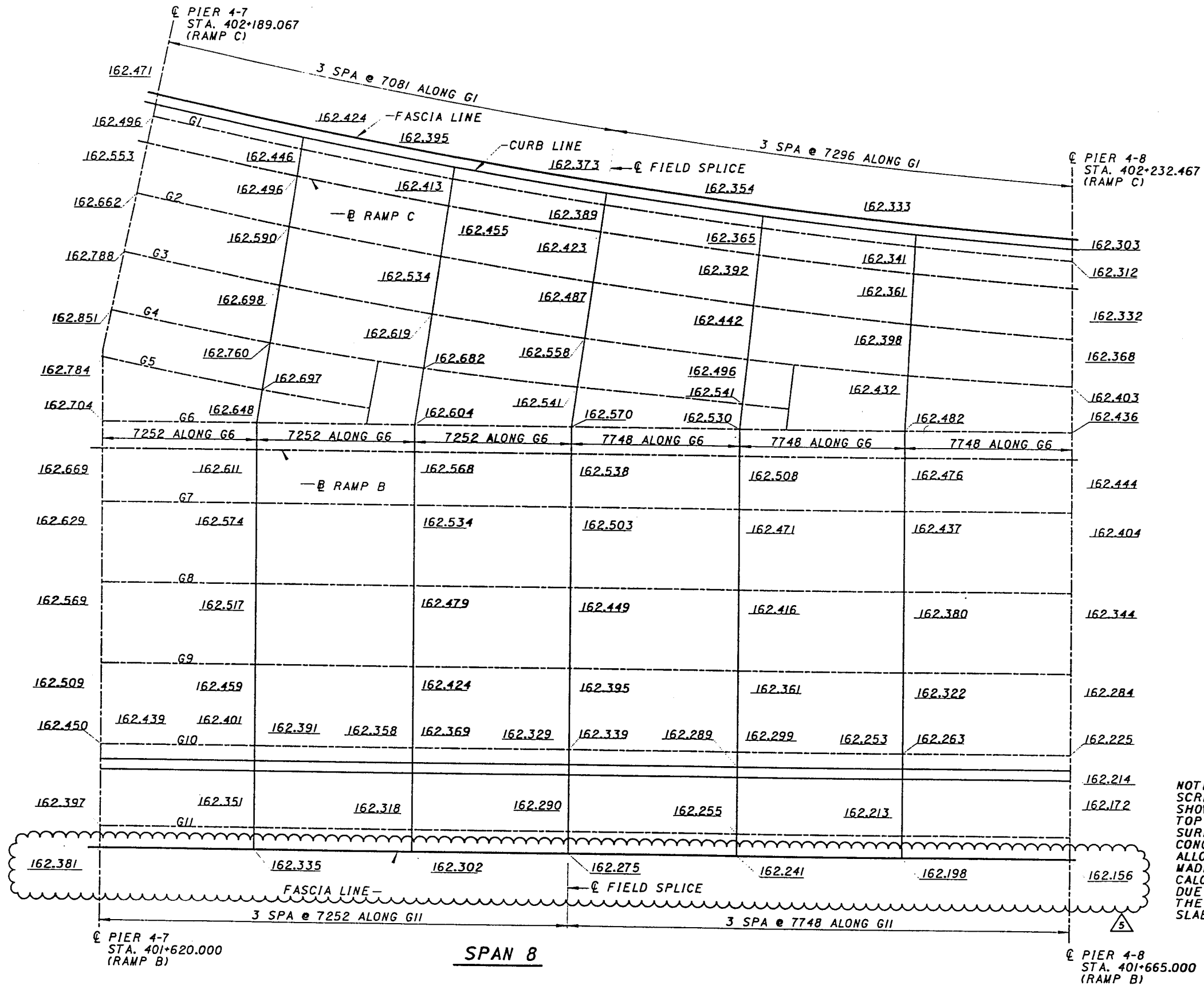
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2/8/00

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NOTE:
 SCREED ELEVATIONS
 SHOWN ARE FOR THE
 TOP OF THE DECK SLAB
 SURFACE PRIOR TO
 CONCRETE PLACEMENT.
 ALLOWANCE HAS BEEN
 MADE FOR ANTICIPATED
 CALCULATED DEFLECTION
 DUE TO THE WEIGHT OF
 THE WEARING COURSE,
 SLAB, AND RAILINGS.

REVISION NO.	DESCRIPTION	DATE	BY
5	SCREED CHANGES	2-8-00	CB8

DESIGN AGENCY
PB
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2770
 755

SCREED ELEVATIONS - 6
 BRIDGES NO. 2 & 4
 RAMPS: B & C

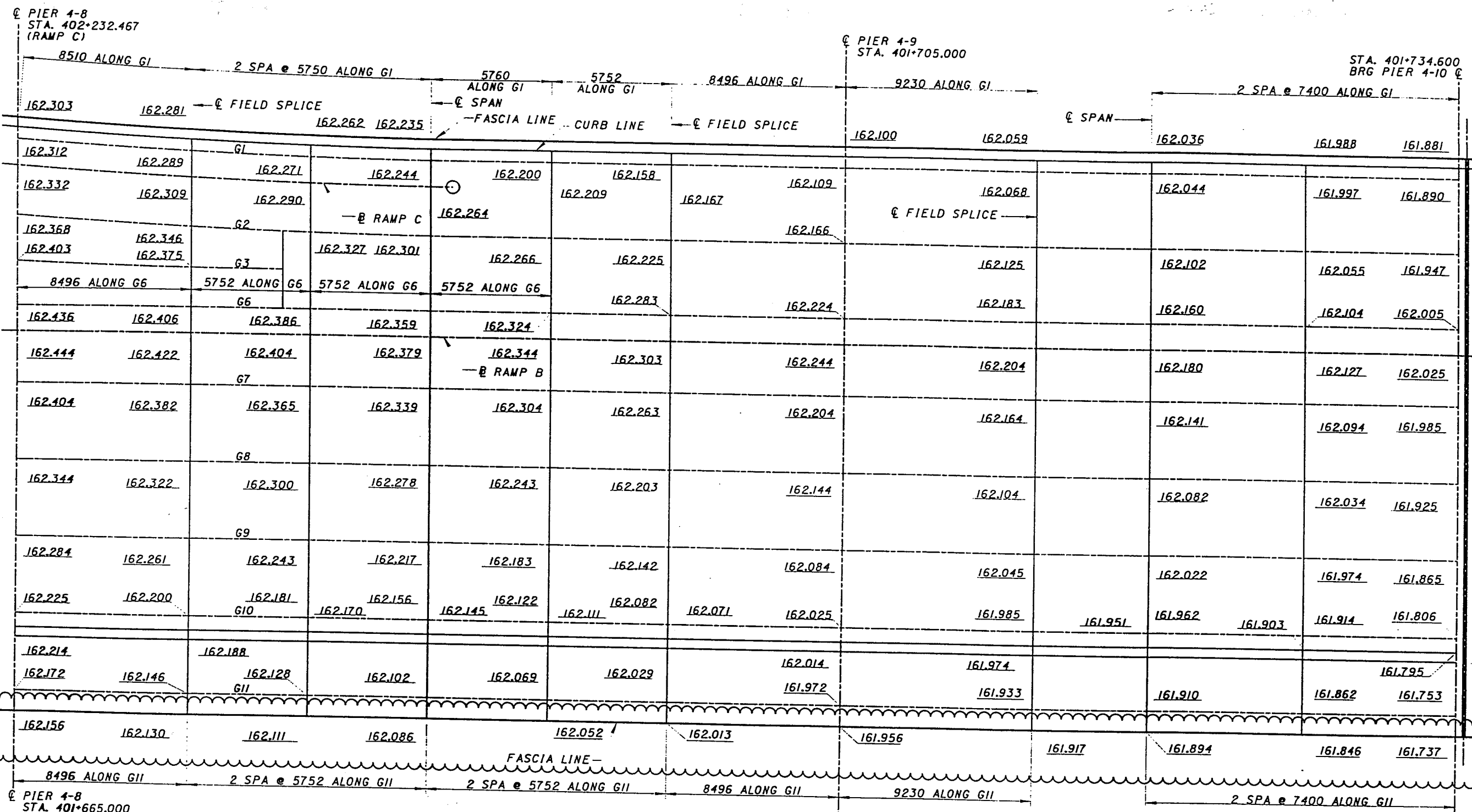
CITY OF CINCINNATI
 CONTRACT No. 75X5753

173/180

REVISION NO. 5
 FEB. 8, 2000

225
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PIER 4-8 STA. 402+232.467 (RAMP C) PIER 4-9 STA. 401+705.000 PIER 4-10 STA. 401+734.600 BRG PIER 4-10
 SPAN 9 SPAN 10

162.312	162.289	162.271	162.244	162.200	162.158	162.109	162.068	162.044	161.997	161.890
162.332	162.309	162.290	162.264	162.209	162.167	162.166	162.125	162.102	162.055	161.947
162.368	162.346	162.327	162.301	162.266	162.225	162.224	162.183	162.160	162.104	162.005
162.403	162.375	162.359	162.324	162.283	162.244	162.204	162.164	162.141	162.094	161.985
162.436	162.406	162.386	162.359	162.324	162.283	162.244	162.204	162.180	162.127	162.025
162.444	162.422	162.404	162.379	162.344	162.303	162.244	162.204	162.180	162.127	162.025
162.404	162.382	162.365	162.339	162.304	162.263	162.204	162.164	162.141	162.094	161.985
162.344	162.322	162.300	162.278	162.243	162.203	162.144	162.104	162.082	162.034	161.925
162.284	162.261	162.243	162.217	162.183	162.142	162.084	162.045	162.022	161.974	161.865
162.225	162.200	162.181	162.156	162.122	162.082	162.071	162.025	161.985	161.951	161.962
162.214	162.188	162.170	162.145	162.111	162.071	162.025	161.985	161.951	161.962	161.903
162.172	162.146	162.128	162.102	162.069	162.029	162.014	161.974	161.933	161.910	161.862
162.156	162.130	162.111	162.086	162.052	162.013	161.972	161.933	161.910	161.862	161.753
162.156	162.130	162.111	162.086	162.052	162.013	161.972	161.933	161.910	161.862	161.753

NOTE:
 SCREED ELEVATIONS SHOWN ARE FOR THE TOP OF THE DECK SLAB SURFACE PRIOR TO CONCRETE PLACEMENT. ALLOWANCE HAS BEEN MADE FOR ANTICIPATED CALCULATED DEFLECTION DUE TO THE WEIGHT OF THE WEARING COURSE, SLAB, AND RAILINGS.

REVISION NO.	5	DESCRIPTION	DATE	BY
REVISION	5	SCREED CHANGES	2-8-00	CBS
DRAWN	CBS	REVIEWED	DATE	BY
MJD	CBS	REVIEWED	DATE	BY
CHECKED	CBS	REVIEWED	DATE	BY

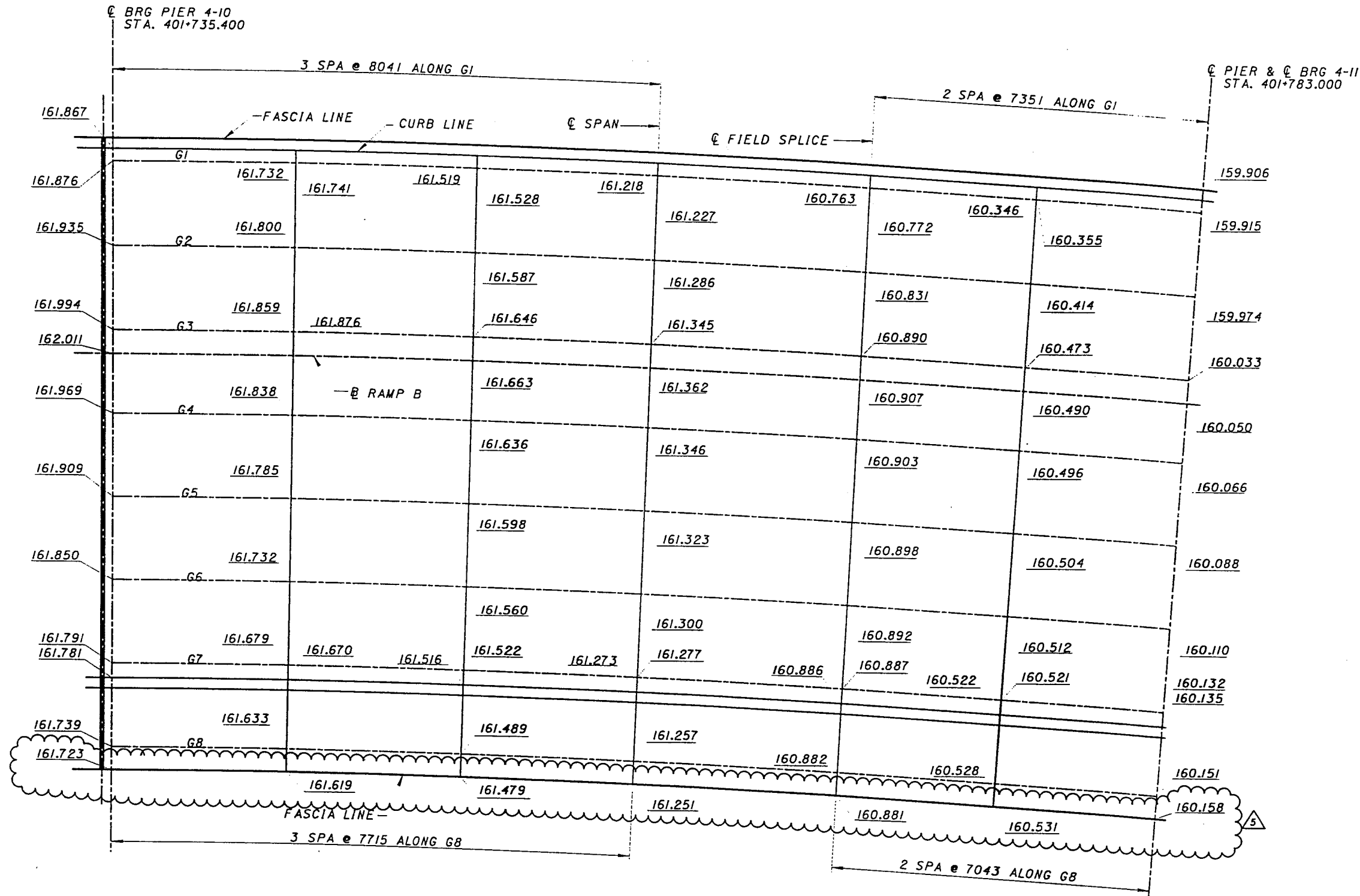
SCREED ELEVATIONS - 7
 BRIDGES NO. 2 & 4
 RAMPS B & C

CITY OF CINCINNATI
 CONTRACT No. 75X5753

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

174/180
 REVISION NO. 5
 FEB. 8, 2000

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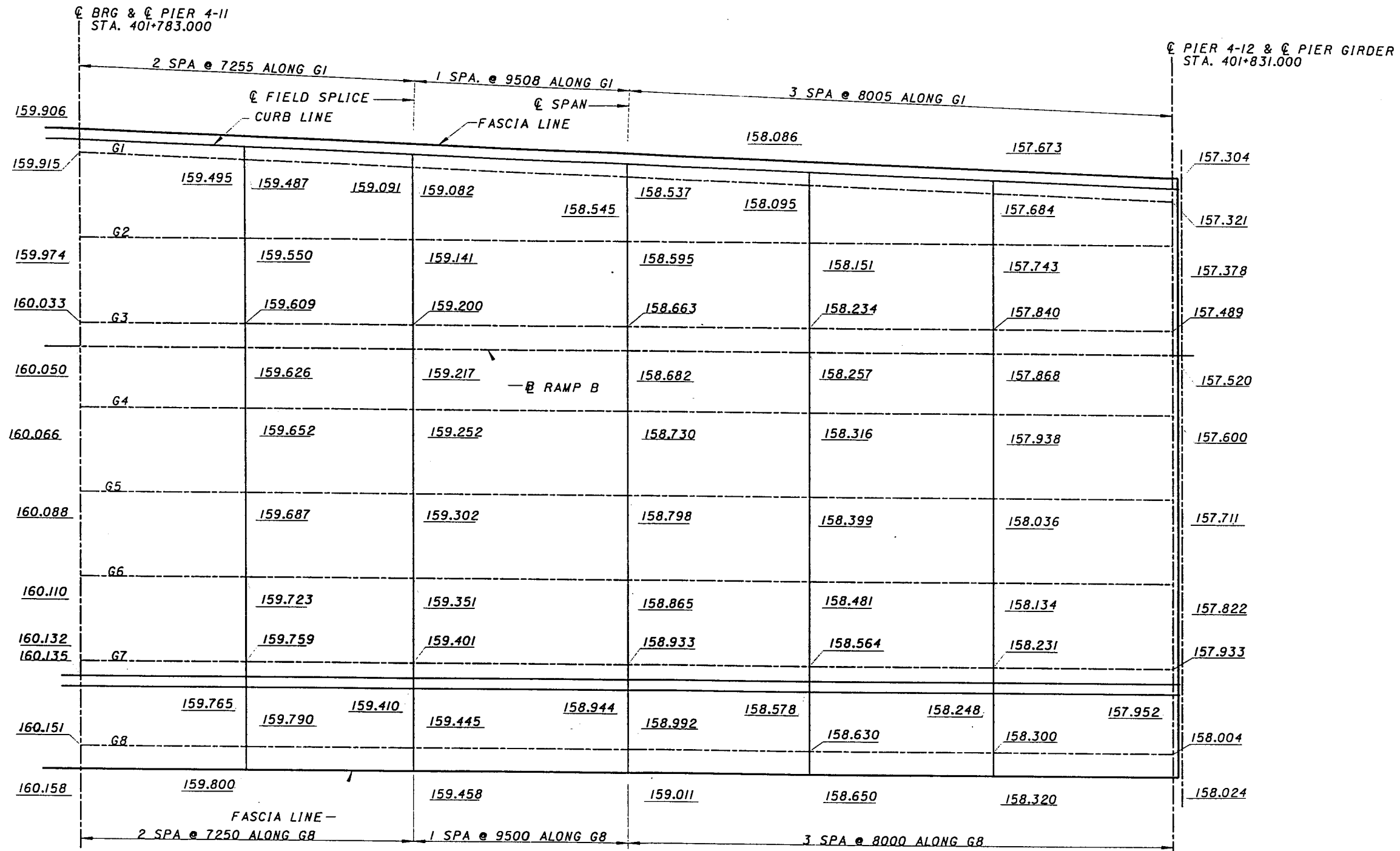
SPAN II

NOTE:
 SCREED ELEVATIONS SHOWN ARE FOR THE TOP OF THE DECK SLAB SURFACE PRIOR TO CONCRETE PLACEMENT. ALLOWANCE HAS BEEN MADE FOR ANTICIPATED CALCULATED DEFLECTION DUE TO THE WEIGHT OF THE WEARING COURSE, SLAB, AND RAILINGS.

REVISION NO.	DESCRIPTION	DATE	BY
REVISION Δ 5	SCREED CHANGES	2-8-00	MCG
DRAWN: CBS CHECKED: MJD	DATE REVIEWED: FILE NUMBER: 3103412	DESIGN AGENCY: PB PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720	
SCREED ELEVATIONS - 8 BRIDGE NO. 4 RAMP B			
CITY OF CINCINNATI CONTRACT No. 75X5753			
175/180			
REVISION NO. 5 FEB. 8, 2000			

227
232

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 2/25/00
 Fri Feb 25 14:13:36 2000



SPAN 12

NOTE:
 SCREED ELEVATIONS SHOWN ARE FOR THE TOP OF THE DECK SLAB SURFACE PRIOR TO CONCRETE PLACEMENT. ALLOWANCE HAS BEEN MADE FOR ANTICIPATED CALCULATED DEFLECTION DUE TO THE WEIGHT OF THE WEARING COURSE, SLAB, AND RAILINGS.

REVISION NO.	DESCRIPTION	DATE	BY
6	REMOVE HOLD	2-26-00	MJD

DESIGN AGENCY
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

REVIEWED DATE
 3/03/12

SCREED ELEVATIONS - 9
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

176/180

REVISION NO. 6
 FEB. 25, 2000

228
 232

Fri Feb 25 14:14:50 2000

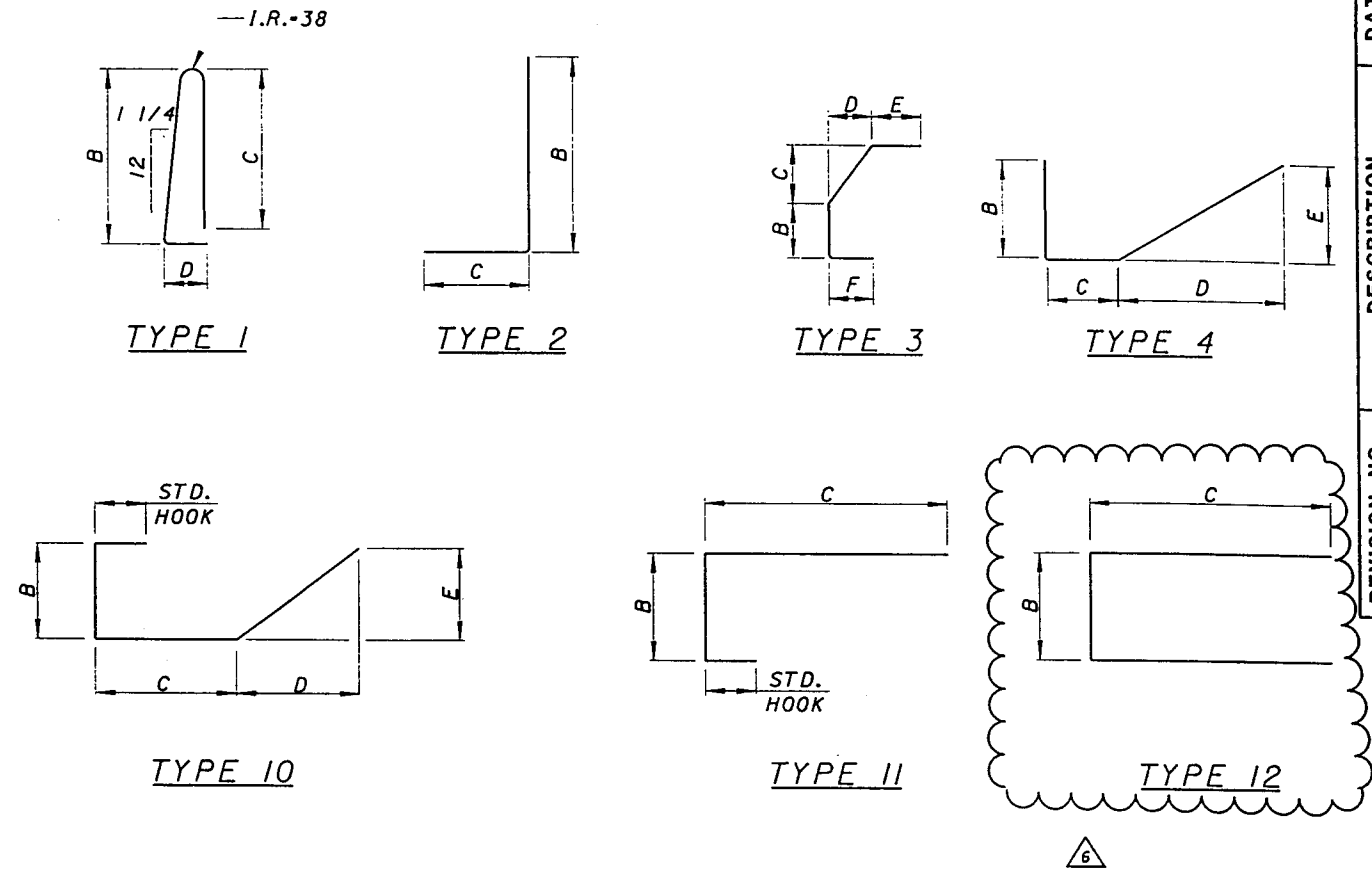
2/25/00

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MARK	NUMBER	LENGTH (mm)	TYPE	DIMENSIONS (mm)					
				A	B	C	D	E	F
S16M01	2095	12 000	STR						
S16M02	1321	2130	1		990	915	205		
S16M03 (NOT USED - UNIT 1)									
S16M04	32	2375	STR						
S16M05	75	11830	STR						
S16M06	30	4975	STR						
S16M07	8	1700	STR						
S16M08	32	935	4	275	300	350	275		
S16M09	8	5480	STR						
S16M10 (NOT USED - UNIT 1)									
S16M11	36	1835	10	200	700	565	565		
S16M12	36	1960	11	585	1200				
S16M13	8	1460	12	220	660				
△									
S19M01 (NOT USED - UNIT 1)									
S19M02 (NOT USED - UNIT 1)									
S19M03	1321	780	2	550	280				
S19M04	1321	855	3	305	216	152	230	125	
S19M05	1345	5710	STR						
S19M06	1345	8580	STR						
S19M07	2698	7275	STR						
S19M08	40	9325	STR						
S19M09	120	12000	STR						
S19M10	160	6550	STR						
S19M11	4	1675	STR						
△									

BAR TYPES



REVISION NO. 6	REVISION	DESCRIPTION	DATE	BY	CBS
MJD	MCG	REBAR CHANGES	2-25-00		CBS
CHECKED	DRAWN	REBAR CHANGES	DATE		DESIGN AGENCY
REVISED	MCG	REBAR CHANGES	DATE		PARSONS BRINCKERHOFF, INC.
		REBAR CHANGES	DATE		312 ELM STREET, SUITE 2500
		REBAR CHANGES	DATE		CINCINNATI, OH 45202-2720
		REBAR CHANGES	DATE		3103412

BAR SCHEDULE - DECK - UNIT 1
BRIDGE NO. 4
RAMP B

CITY OF CINCINNATI
CONTRACT No. 75X5753

177/180

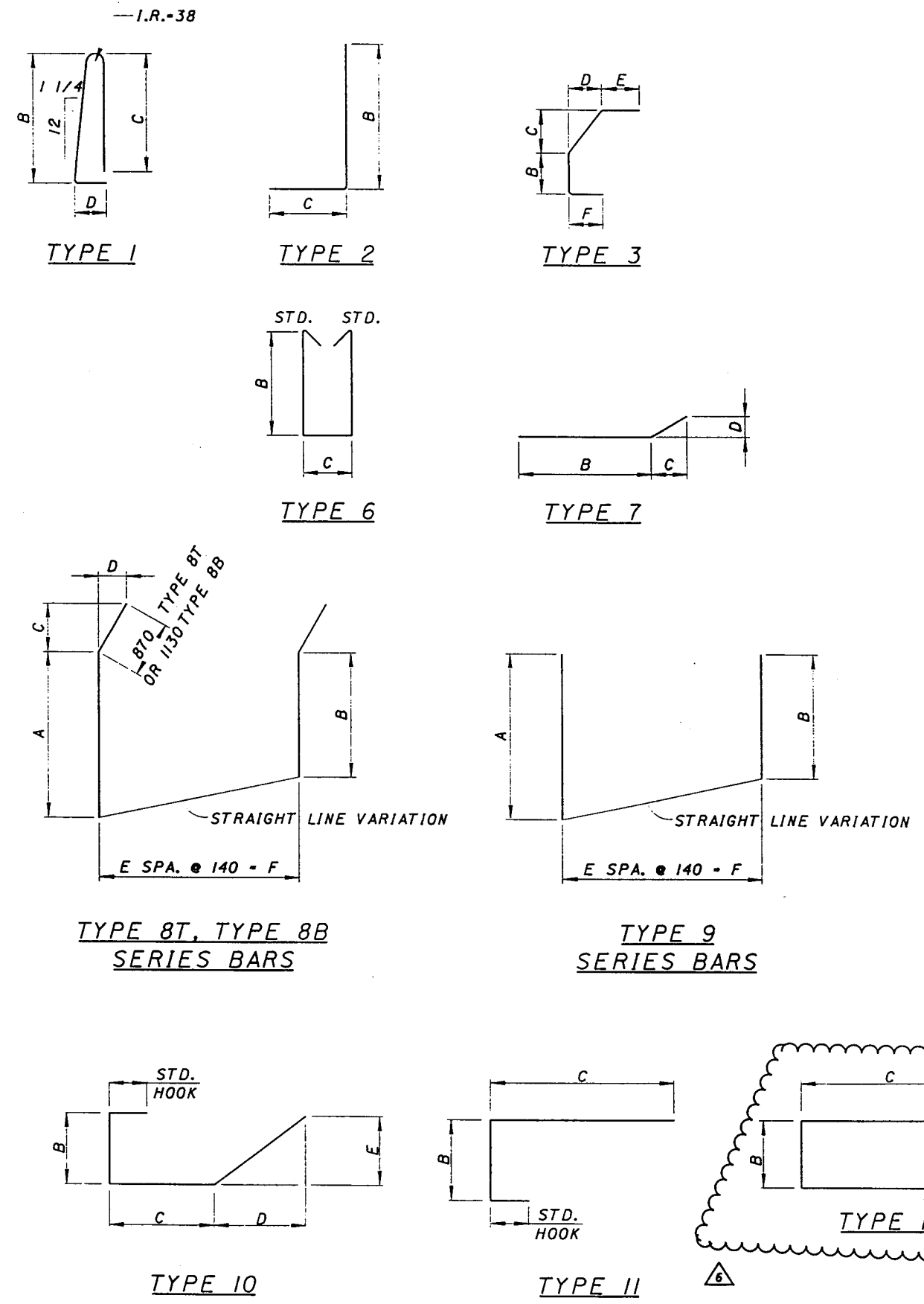
REVISION NO. 6
FEB 25, 2000

229
232

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MARK	NUMBER	LENGTH (mm)	TYPE	DIMENSIONS (mm)							R Degrees
				A	B	C	D	E	F	R	
S16M01	1341	12000	STR								
S16M02	540	2130	I		990	915	205				
S16M04	84	3900	STR								
S16M05	61	5700	STR								
S16M06	15	10500	STR								
S16M07	15	3100	STR								
S16M08	40	1800	STR								
S16M09	13	6400	STR								
S16M10	21	4700	STR								
S16M11	142	1835	10		200	700	565	565			
S16M12	142	1960	11		585	1200					
S16M13	8	3080	6		1350	205					
S16M14	8	2200	STR								
S16M15	48	3200	STR								
S16M16	18	2450	STR								
S16M17	6	2400	STR								
S16M18	6	1425	STR								
S16M19	8	4900	STR								
S16M20	8	1300	STR								
S16M21	16	1460	12		220	660					
S19M01	276	705	2		475	280					
S19M02	276	825	3		275	216	152	230	125		
S19M03	264	780	2		550	280					
S19M04	264	855	3		305	216	152	230	125		
S19M05	482	10775	STR								
S19M06	347	10325	STR								
S19M07	154	11200	STR								
SERIES S19M08	1 SER OF 96	11445 AVG	8T	11175	9975	865	100	95	13300		
S19M09	182	11500	STR								
S19M10	241	12750	STR								
S19M11	241	9025	STR								
SERIES S19M12	2 SER OF 9	4640 AVG	9	6225	3050			8	1120		
SERIES S19M13	1 SER OF 56	5660 AVG	8T	5825	3750	825	275	55	7700		
SERIES S19M14	1 SER OF 56	3780 AVG	8T	3725	2100	840	225	55	7700		
SERIES S19M15	1 SER OF 56	2330 AVG	8T	2050	875	855	175	55	7700		
S19M16	153	11800	STR								
SERIES S19M17	1 SER OF 56	5670 AVG	8B	5575	3500	1080	325	55	7700		
SERIES S19M18	1 SER OF 56	3770 AVG	8B	3450	1825	1100	275	55	7700		
SERIES S19M19	1 SER OF 31	2600 AVG	8B	1800	1130	1110	225	30	4200		
SERIES S19M20	1 SER OF 121	11700 AVG	8B	11450	9700	1120	150	120	16800		
S19M21	343	10575	STR								
S19M22	8	6900	7		2650	4035	1395				
S19M23	70	12000	STR								
S19M24	70	6875	STR								
S19M25	8	1675	STR								

BAR TYPES



REVISION NO.	DESCRIPTION	DATE	BY
REVISION 6	REBAR CHANGES	2-25-00	MJD

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720
 PROJECT FILE NUMBER: 3103412

BAR SCHEDULE - DECK - UNIT 2
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

178/180
 REVISION 6
 FEB 25, 2000

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2/25/00

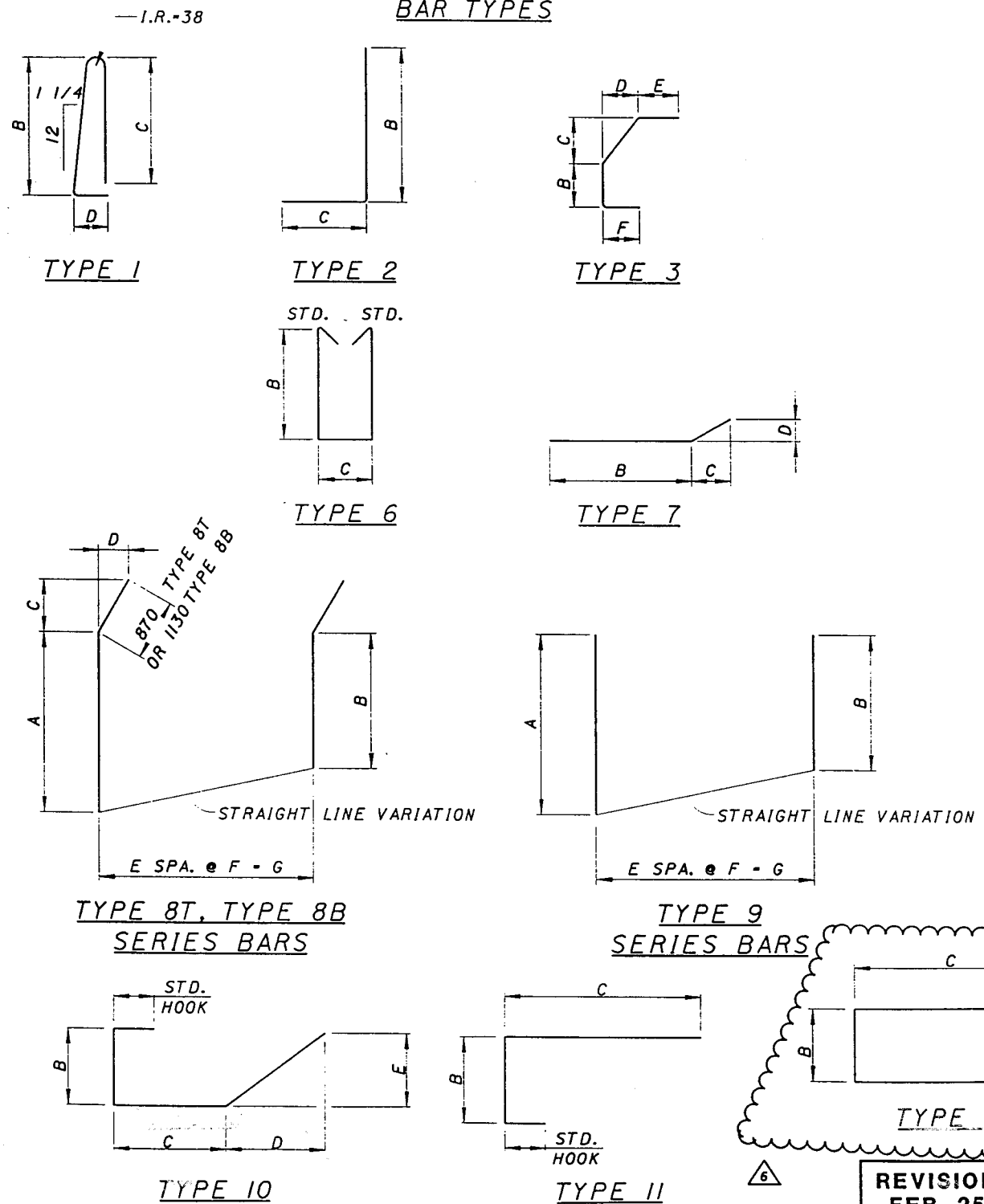
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SI6M01	4034	12000	STR								
SI6M02	1525	2130	I		990	915	205				
SI6M04	15	4350	STR								
SI6M05	10	5525	STR								
SI6M06	20	7250	STR								
SI6M07	4	10460	STR								
SI6M08	76	10270	STR								
SI6M09	4	4900	STR								
SI6M10	5	2975	6		1285	205					
SI6M11	201	1835	10		200	700	565	565			
SI6M12	201	1960	11		550	1200					
SI6M13	60	3250	STR								
SI6M14	18	3100	STR								
SI6M15 (NOT USED-UNIT 3)											
SI6M16	12	2250	STR								
SI6M17	18	2350	STR								
SI6M18	32	1460	12		220	660					
SI9M01	560	705	2		475	280					
SI9M02	560	825	3		275	216	152	230	125		
SI9M03	965	780	2		550	280					
SI9M04	965	855	3		305	216	152	230	125		
SI9M05	1606	10750	STR								
SI9M06	824	10325	STR								
SI9M07	351	8550	STR								
SI9M08 (NOT USED-UNIT 3)											
SI9M09	347	8725	STR								
SI9M10	736	12400	STR								
SI9M11	1209	9025	STR								
SI9M12	228	9425	STR								
SI9M13 (NOT USED-UNIT 3)											
SI9M14	2	7290	7		4565	2660	580				
SERIES SI9M15	1 SER OF 56	6380 AVG	8T	6365	4655	855	175	55	140	7700	
SERIES SI9M16	1 SER OF 56	4790 AVG	8T	4625	3215	860	155	55	140	7700	
SERIES SI9M17	1 SER OF 56	3480 AVG	8T	3190	2025	865	130	55	140	7700	
SERIES SI9M18	1 SER OF 56	2400 AVG	8T	2010	1045	865	110	55	140	7700	
SERIES SI9M19	1 SER OF 245	10340 AVG	8B	10450	8485	870	50	244	140(+)	34163	
SI9M20	473	10550	STR								
SI9M21 (NOT USED-UNIT 3)											
SERIES SI9M22	1 SER OF 56	6375 AVG	8B	6100	4390	1110	230	55	140	7700	
SERIES SI9M23	1 SER OF 56	4785 AVG	8B	4360	2950	1115	200	55	140	7700	
SERIES SI9M24	1 SER OF 56	3475 AVG	8B	2925	1765	1120	170	55	140	7700	
SERIES SI9M25	1 SER OF 56	2395 AVG	8B	1745	785	1125	145	55	140	7700	
SERIES SI9M26	1 SER OF 66	12595 AVG	8B	12425	10505	1130	65	244	140(+)	34163	
SI9M27	228	11650	STR								
SI9M28	2	5200	STR								
SI9M29	2	5825	STR								
SI9M30	78	7675	STR								
SI9M31	292	12000	STR								
SI9M32	92	4875	STR								
SI9M33	93	6875	STR								
SI9M34	68	10875	STR								
SI9M35	178	11000	STR								
SI9M36	18	5525	STR								
SI9M37	365	6425	STR								
SI9M38	365	7875	STR								
SERIES SI9M39	1 SER OF 161	4700 AVG	9	4275	5125			160	140	22400	
SERIES SI9M40	1 SER OF 204	5810 AVG	9	5125	6500			203	140(-)	28362	

MARK	NUMBER	LENGTH (mm)	TYPE	DIMENSIONS (mm)							R Degrees
				A	B	C	D	E	F	G	
SERIES SI9M41	1 SER OF 161	5950 AVG	9	5525	6375			160	140	22400	
SERIES SI9M42	1 SER OF 204	7060 AVG	9	6375	7750			203	140(-)	28362	
SI9M43	1	3250	STR								
SI9M44	1	2600	STR								
SI9M45	1	3500	STR								
SI9M46	1	2875	STR								
SERIES SI9M47	1 SER OF 4	2930 AVG	8T	2125	2000	850	185	3	140	420	
SERIES SI9M48	1 SER OF 4	2385 AVG	8B	2375	2275	1105	240	3	140	420	
SI9M49	16	1675	STR								

BAR TYPES



REVISION NO.	DESCRIPTION	DATE	BY
6	BAR SCHEDULE REVISED	2-25-00	CBS
6	DESIGN AGENCY		
6	DESIGNED		
6	DRAWN		
6	CHECKED		
6	REVIEWED		
6	DATE		
6	FILE NUMBER		
6	PROJECT		

DESIGN AGENCY
PB
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

REVISION NO. 6
 FEB 25, 2000

BAR SCHEDULE - DECK - UNIT 3
 BRIDGE NO. 1
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

179/180

231
 232

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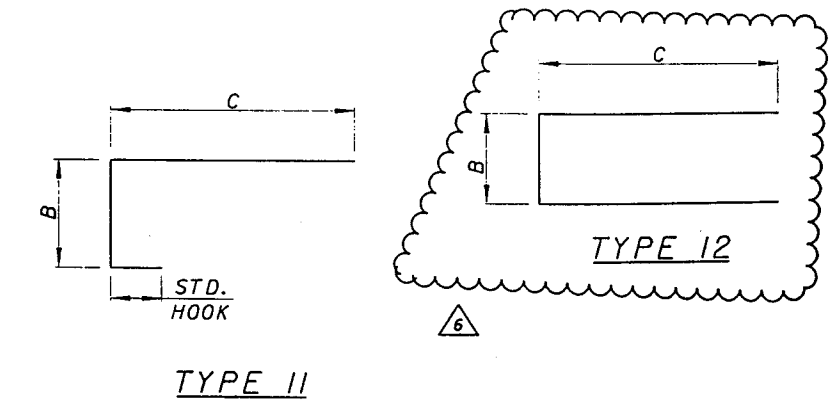
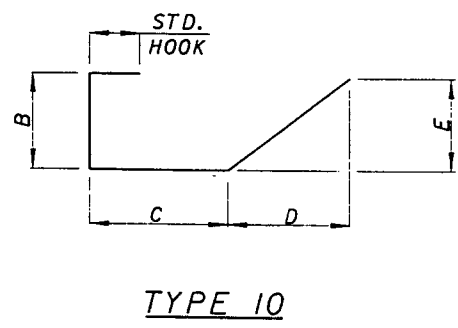
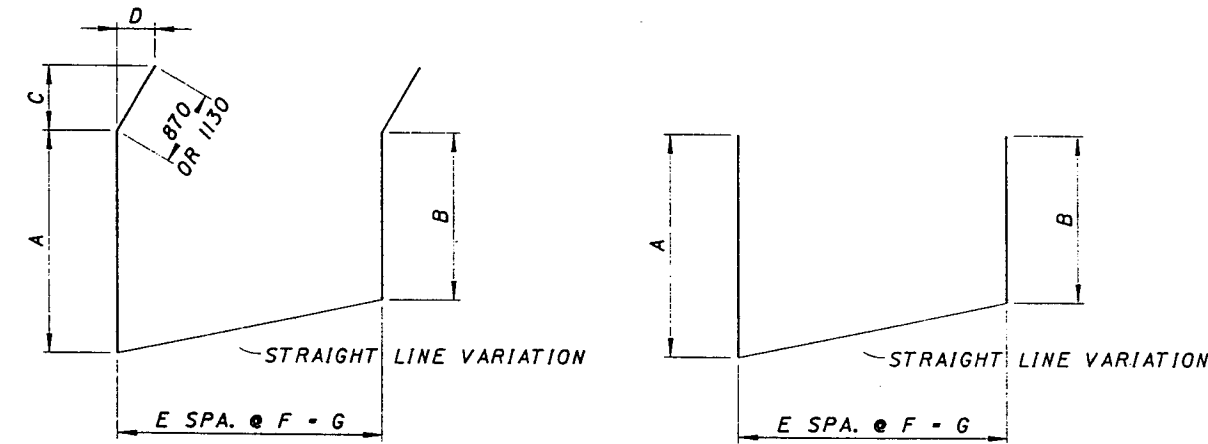
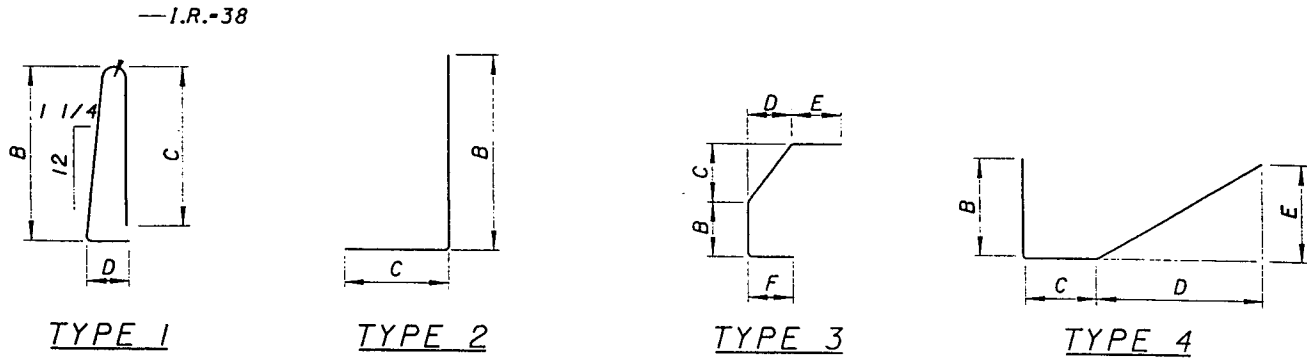
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MARK	NUMBER	LENGTH (mm)	TYPE	DIMENSIONS (mm)								R Degrees	
				A	B	C	D	E	F	G	R		
S16M01	1975	12 000	STR										
S16M02	632	2130	1		990	915	205						
S16M04	195	6000	STR.										
S16M05	30	6900	STR.										
S16M06	87	1245	4		205	700	370	205					
S16M07	8	5030	STR										
S16M11	84	1835	10		200	700	565	565					
S16M12	84	1960	11		585	1200							
S16M15	42	3200	STR										
S16M16	8	1460	12		220	660							
S16M17	12	9250	STR										
S19M01	313	705	2		475	280							
S19M02	313	825	3		275	216	152	230	125				
S19M03	319	780	2		550	280							
S19M04	319	855	3		305	216	152	230	125				
S19M05	92	12000	STR										
S19M06	348	10300	STR										
S19M07	694	8650	STR										
S19M08	694	10650	STR										
S19M09	344	8950	STR										
S19M10	690	12350	STR										
S19M11	690	8800	STR.										
S19M12	1 SER OF 346	9400 AVG	9	10300	8500			345	140	48300			
S19M13	1 SER OF 346	8050 AVG	9	8950	7150			345	140	48300			
S19M14	92	8100	STR										
S19M15	4	1675	STR										

BAR TYPES



REVISION NO.	DESCRIPTION	DATE	BY
6	REBAR CHANGES	2-26-00	CB8

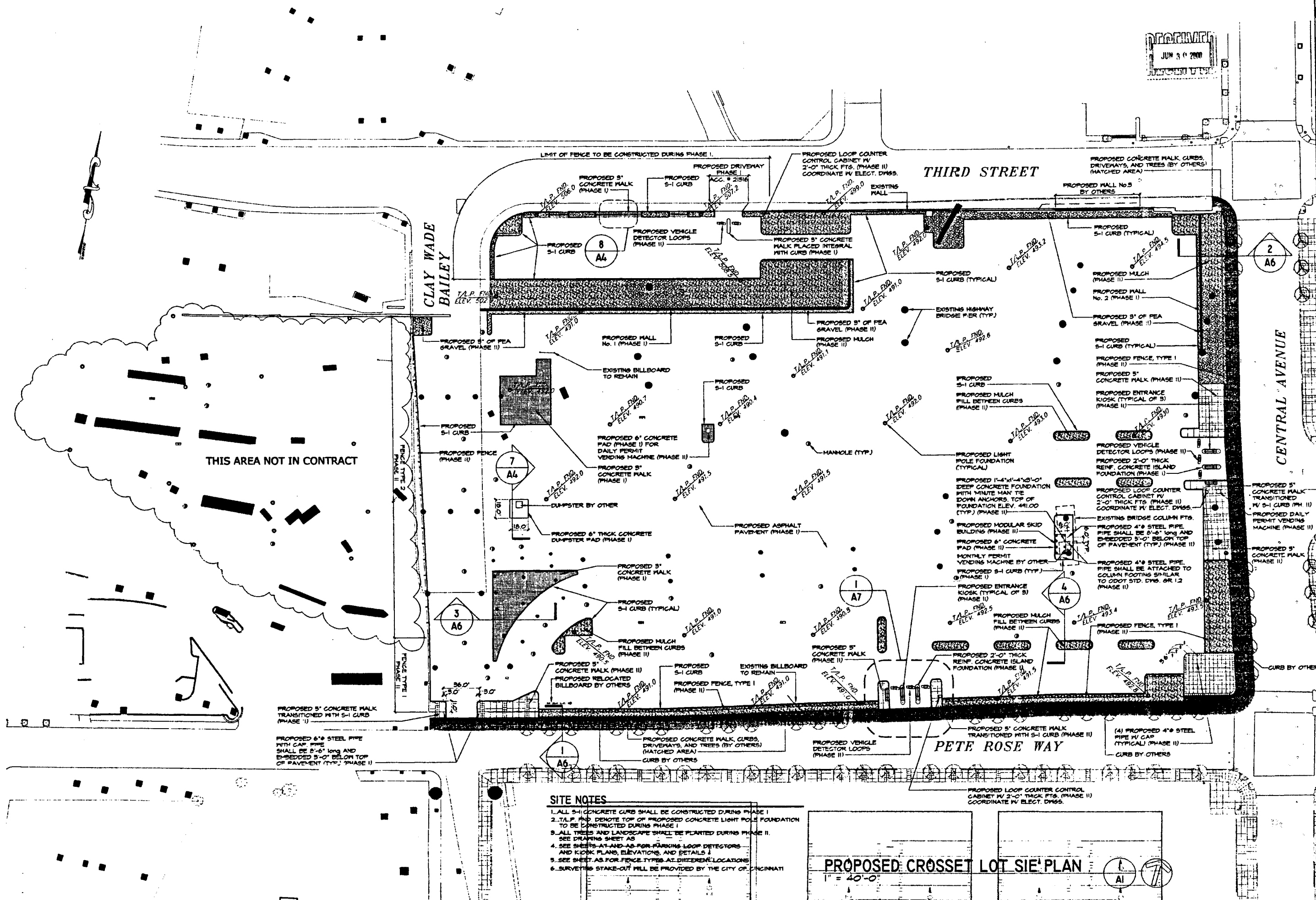
DESIGN AGENCY
PB
 PARSONS BRINCKERHOFF, INC.
 312 ELM STREET, SUITE 2500
 CINCINNATI, OH 45202-2720

REVISION NO. 6
 DRAWN: MCG
 CHECKED: MJD
 DESIGNED: MJD
 DATE: 2-26-00
 PROJECT FILE NUMBER: 3103412

BAR SCHEDULE - DECK - UNIT 4
 BRIDGE NO. 4
 RAMP B

CITY OF CINCINNATI
 CONTRACT No. 75X5753

REVISION NO. 6
 FEB 25, 2000



- SITE NOTES**
1. ALL 5'-1" CONCRETE CURBS SHALL BE CONSTRUCTED DURING PHASE I
 2. T.A.P. END. DENOTE TOP OF PROPOSED CONCRETE LIGHT POLE FOUNDATION TO BE CONSTRUCTED DURING PHASE I
 3. ALL TREES AND LANDSCAPE SHALL BE PLANTED DURING PHASE II
 4. SEE SHEETS AT AND AS FOR PARKING LOOP DETECTORS AND KIOSK PLANS, ELEVATIONS, AND DETAILS
 5. SEE SHEET AS FOR FENCE TYPES AT DIFFERENT LOCATIONS
 6. SURVEYING STAKE-OUT WILL BE PROVIDED BY THE CITY OF CINCINNATI

PROPOSED CROSSET LOT SITE PLAN
 1" = 40'-0"

Consultant
 Consultant

**Proposed Parking Lot
 Crosset Lot**
 Central Avenue between
 3rd Street and Pete Rose Way

Issuances

Date	Description
5/16/00	PERMIT
5/29/00	BOOKING

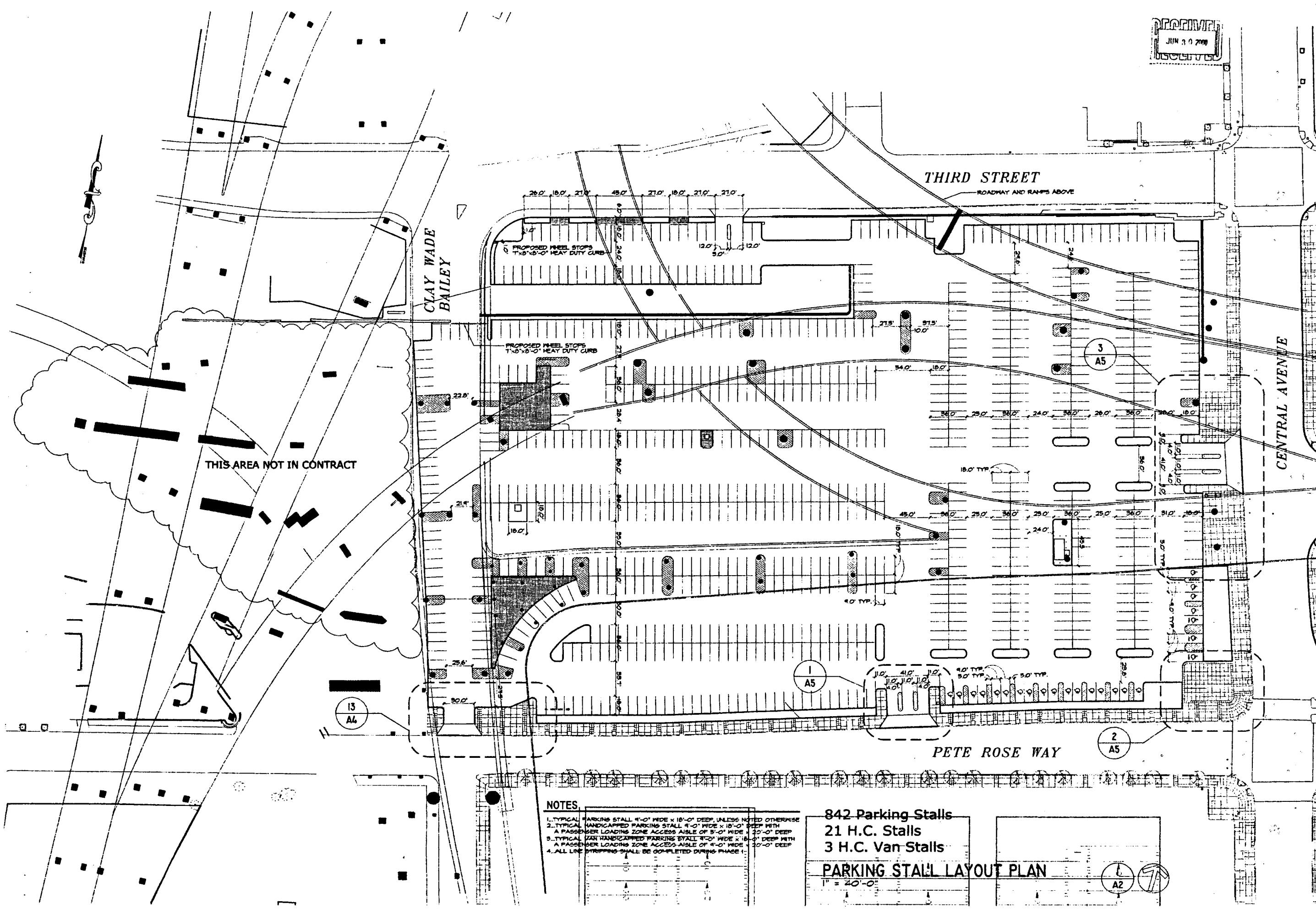
Revisions

No.	Date	Item

Sheet Title

**PLAN
 Proposed Site**

Scale 1" = 40'-0"	Project No. 98-0250
Drawn by KJK	Sheet No.
Approved by MRM	A1
Date 16 June 2000	



THIS AREA NOT IN CONTRACT

THIRD STREET
 ROADWAY AND RAMP ABOVE

CENTRAL AVENUE

PETE ROSE WAY

- NOTES**
1. TYPICAL PARKING STALL 9'-0" WIDE X 18'-0" DEEP, UNLESS NOTED OTHERWISE
 2. TYPICAL HANDICAPPED PARKING STALL 9'-0" WIDE X 18'-0" DEEP WITH A PASSENGER LOADING ZONE ACCESS AISLE OF 5'-0" WIDE X 20'-0" DEEP
 3. TYPICAL H.C. VAN STALL 12'-0" WIDE X 18'-0" DEEP WITH A PASSENGER LOADING ZONE ACCESS AISLE OF 4'-0" WIDE X 20'-0" DEEP
 4. ALL LINE STRIPING SHALL BE COMPLETED DURING PHASE I

842 Parking Stalls
 21 H.C. Stalls
 3 H.C. Van Stalls

PARKING STALL LAYOUT PLAN

1" = 40'-0"

Consultant

Consultant

**Proposed Parking Lot
 Crossett Lot
 Central Avenue between
 3rd Street and Pete Rose Way**

Assurances

Date	Description
5/16/00	FORMAT
6/29/00	REVISION

Revisions

No.	Date	Item

Sheet Title

**PLAN
 Parking Stall Layout**

Scale 1" = 40'-0"	Project No. 98-02505-06
Drawn by KJK	Sheet No.
Approved by MRM	A2
Date 16 June 2000	

**Proposed Parking Lot
Crossett Lot**
Central Avenue between
3rd Street and Pete Rose Way

Issuances

Date	Description
6/16/00	PERMIT
6/29/00	BIDDING

Revisions

No.	Date	Item

Sheet Title

**PLAN
Landscape & Fencing**

Scale 1" = 40'-0" Project No. 98-02509

Drawn by KJK Sheet No.

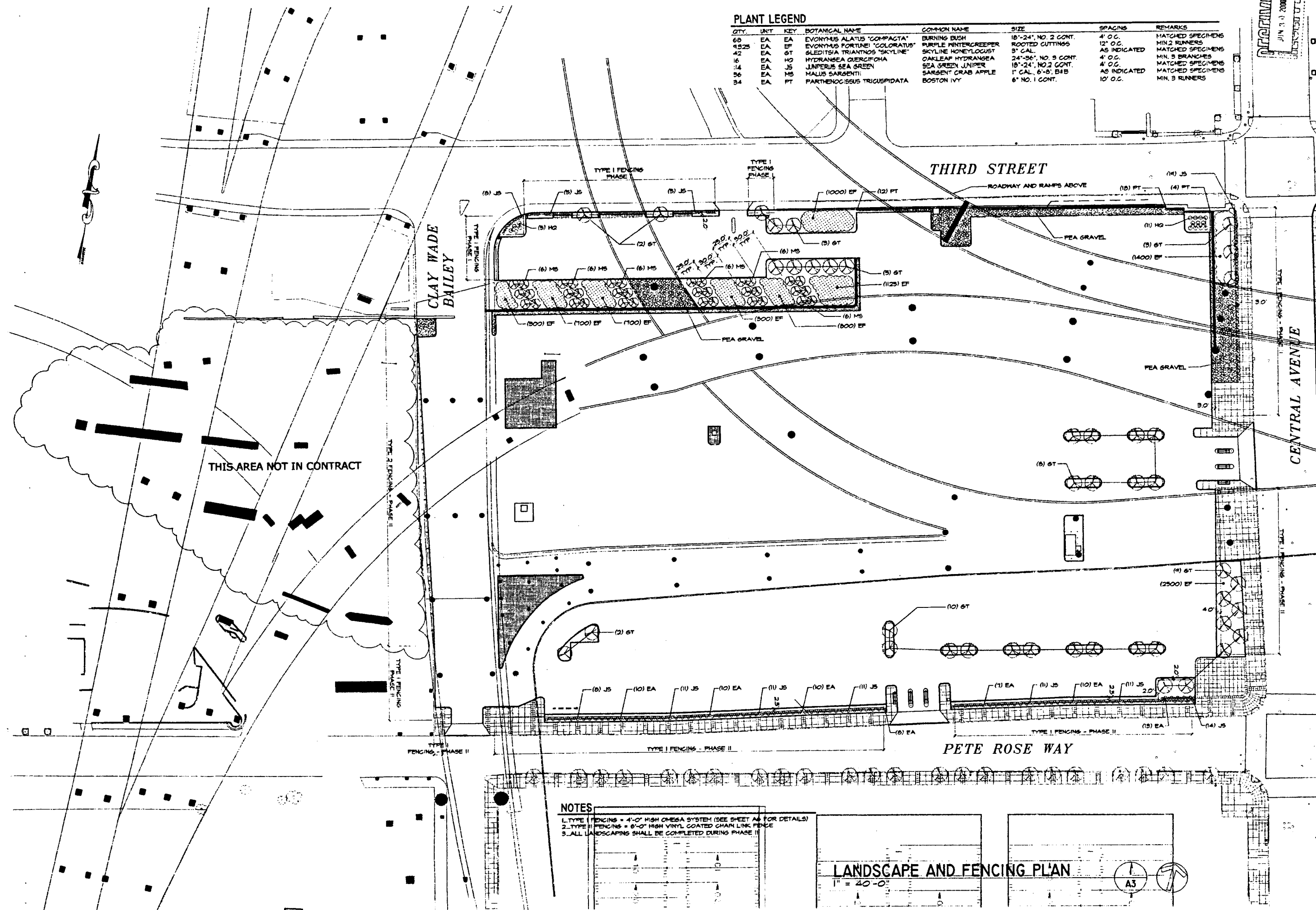
Approved by MRM

Date 16 June 2000

A3

PLANT LEGEND

QTY.	UNIT	KEY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
68	EA	EA	EVONYMUS ALATUS 'COMPACTA'	BURNING BUSH	18"-24", NO. 2 CONT.	4' O.C.	MATCHED SPECIMENS
1525	EA	EF	EVONYMUS FORTUNEI 'COLORATUS'	PURPLE WINTERCREEPER	ROOTED CUTTINGS	12' O.C.	MIN. 2 RUNNERS
42	EA	GT	GLEDITSIA TRIANTHOS 'SKYLINE'	SKYLINE HONEYLOCUST	3" CAL.	AS INDICATED	MATCHED SPECIMENS
16	EA	HO	HYDRANSEA QUERCIFOLIA	OAKLEAF HYDRANSEA	24"-36", NO. 3 CONT.	4' O.C.	MIN. 3 BRANCHES
14	EA	JS	JUNPERUS SEA GREEN	SEA GREEN JUNIPER	18"-24", NO. 2 CONT.	4' O.C.	MATCHED SPECIMENS
56	EA	MS	MALUS SARSENTII	SARGENT CRAB APPLE	1" CAL. 6"-8", B4B	AS INDICATED	MATCHED SPECIMENS
34	EA	PT	PARTHENOCISSUS TRICUSPIDATA	BOSTON IVY	6" NO. 1 CONT.	10' O.C.	MIN. 3 RUNNERS

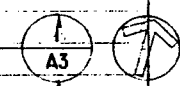


NOTES

1. TYPE I FENCING = 4'-0" HIGH OMEGA SYSTEM (SEE SHEET A4 FOR DETAILS)
2. TYPE II FENCING = 6'-0" HIGH VINYL COATED CHAIN LINK FENCE
3. ALL LANDSCAPING SHALL BE COMPLETED DURING PHASE II

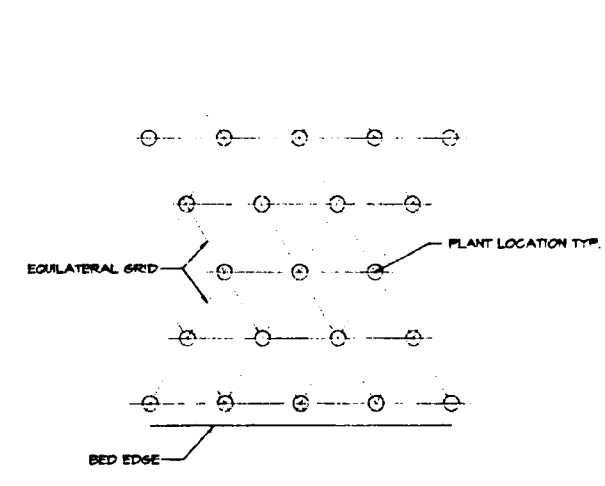
LANDSCAPE AND FENCING PLAN

1" = 40'-0"

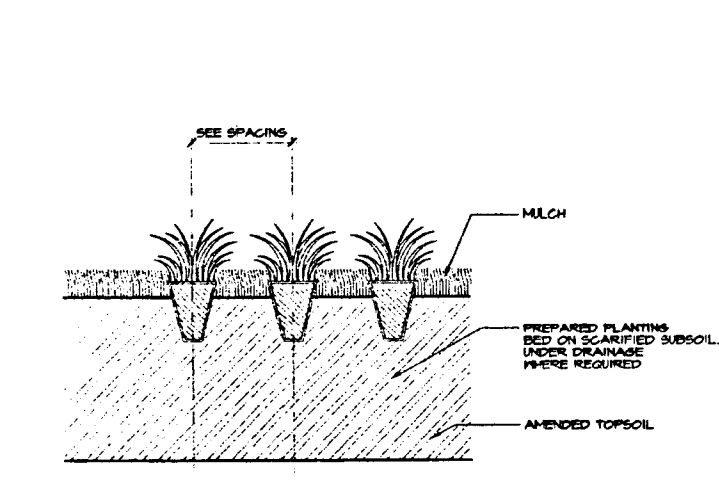


Date	Description
5/16/00	PERMIT
6/29/00	BIDDING

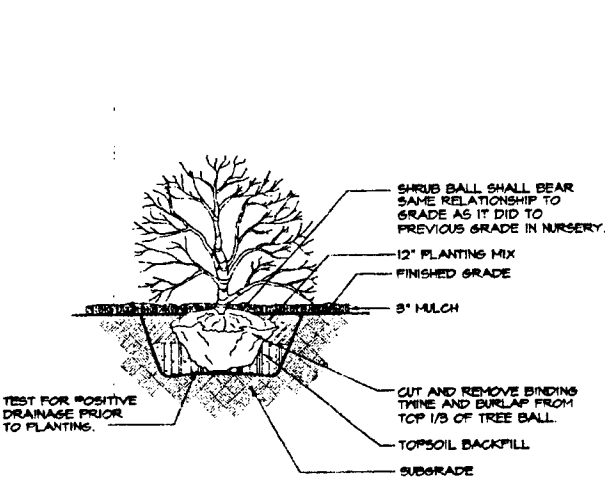
No.	Date	Item



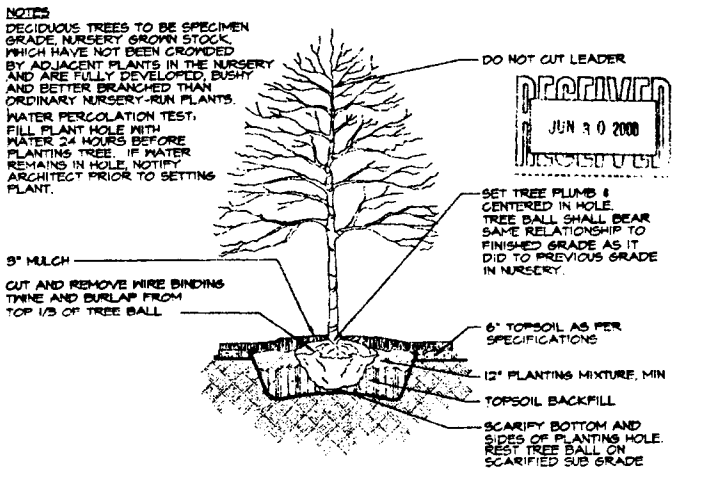
PLANT SPACING DETAIL
NTS



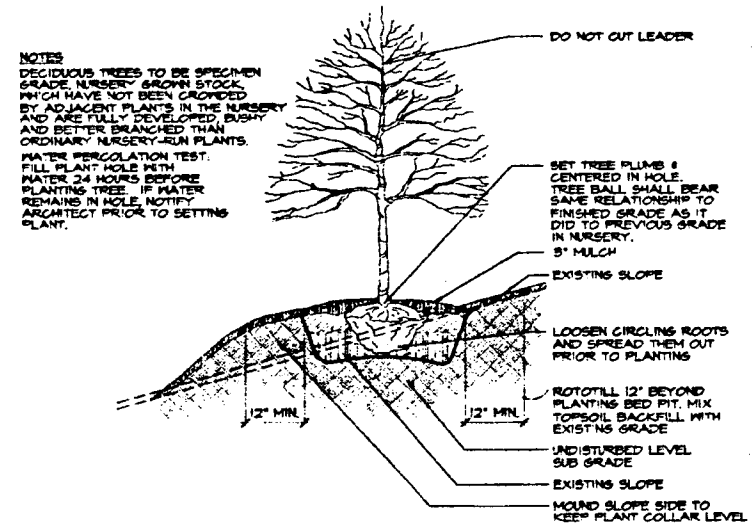
GROUND COVER PLANTING DETAIL
NTS



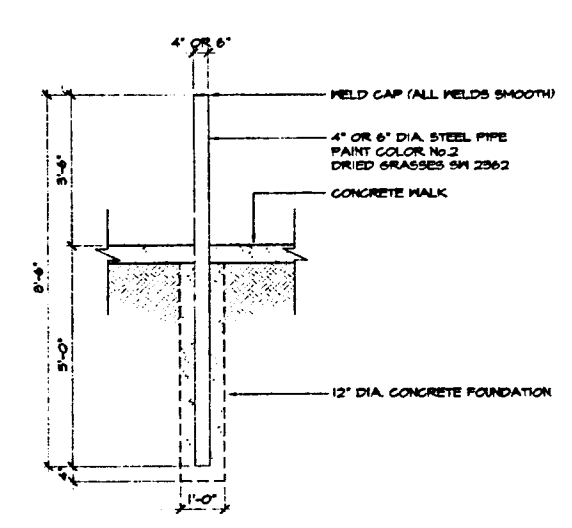
SHRUB PLANTING DETAIL
NTS



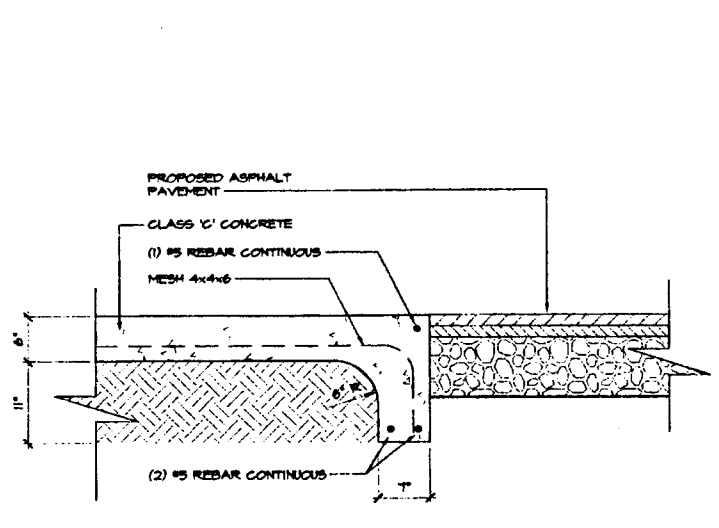
DECIDUOUS TREE PLANTING DETAIL
NTS



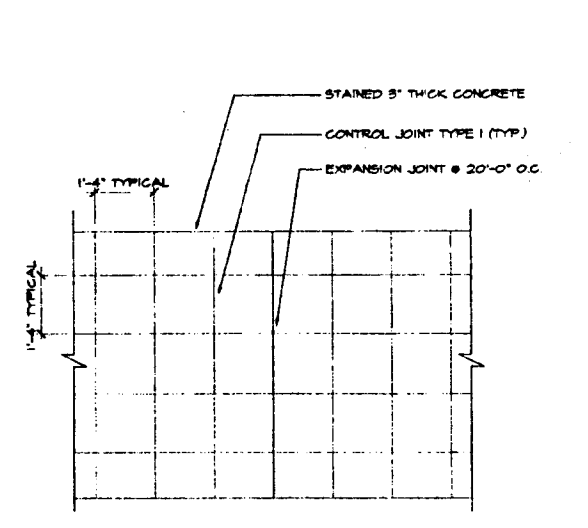
TREE PLANTING DETAIL FOR HILLSIDE CONDITIONS
NTS



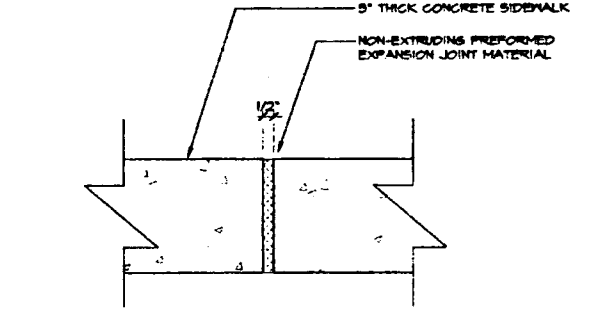
BOLLARD DETAIL
1/2"=1'-0"



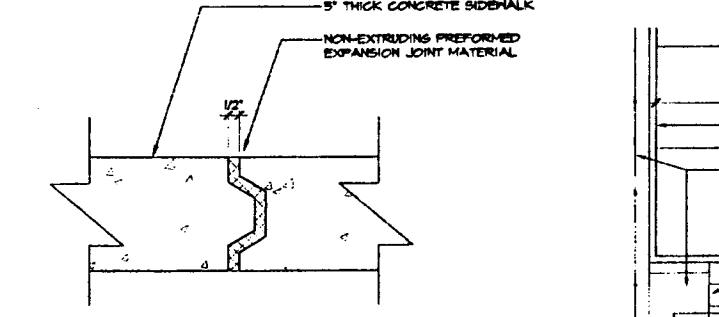
LUG CURB @ DUMPSTER DETAIL
1"=1'-0"



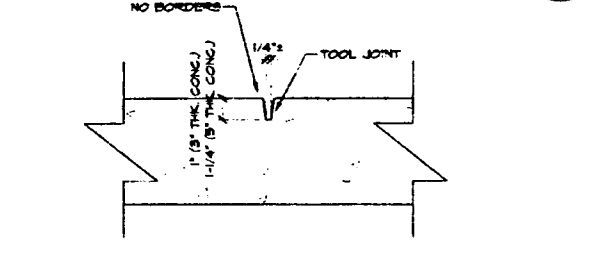
SCORING PATTERN
1/2"=1'-0"



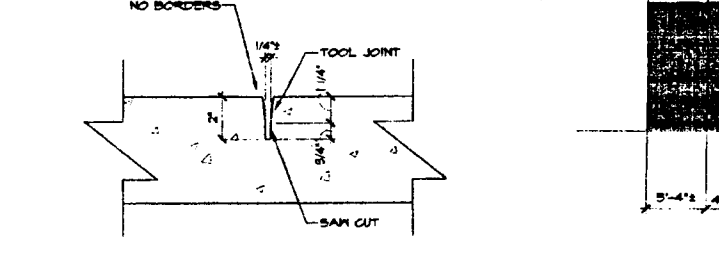
3" THICK CONCRETE TYPICAL EXPANSION JOINT
NTS



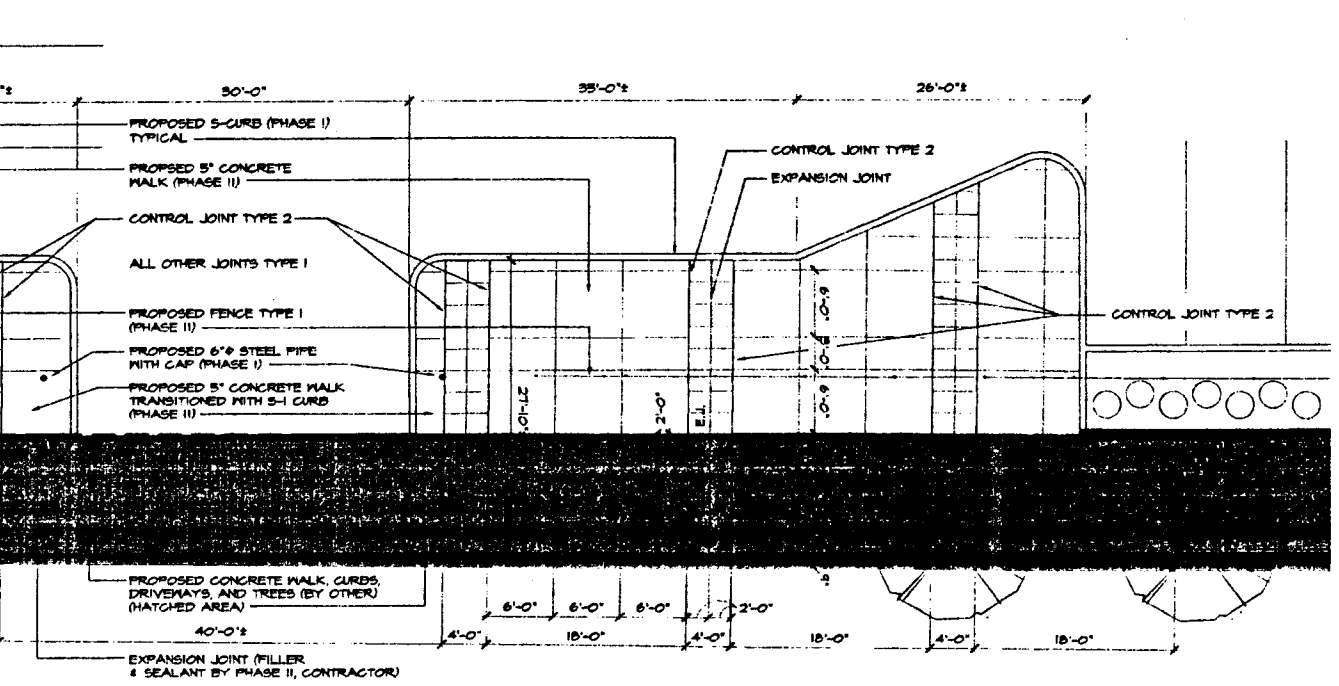
5" THICK CONCRETE TYPICAL EXPANSION JOINT
NTS



TYPE 1 CONTROL JOINT
NTS



TYPE 2 CONTROL JOINT
NTS



PARTIAL PLAN
1/8"=1'-0"



Consultant

Consultant

**Proposed Parking Lot
 Crosset Lot
 Central Avenue between
 3rd Street and Pete Rose Way**

Issues

Date	Description
6/16/00	PERMIT
6/29/00	BIDDING

Revisions

No.	Date	Item

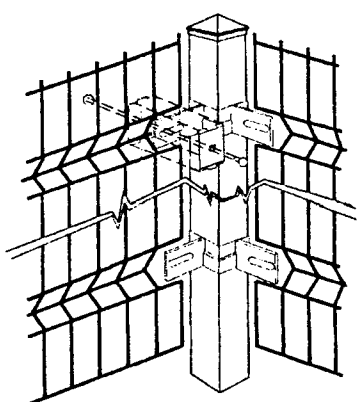
Sheet Title

**SECTIONS - DETAIL
 Parking Curb, Omega
 Fence & Sidewalks**

Scale as noted Project No. 98-02505-1
 Drawn by KJK Sheet No.

Approved by MM **A6**

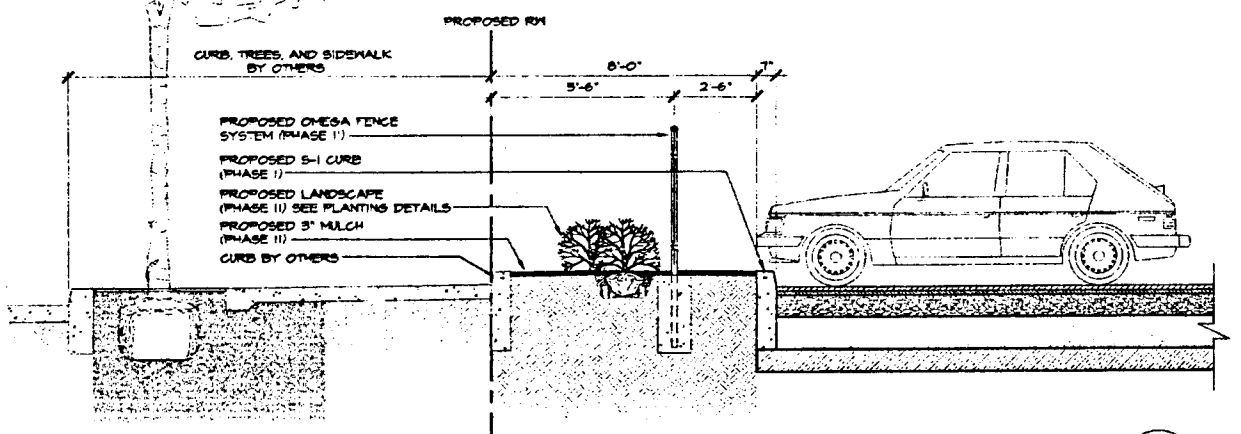
Date 16 June 2000



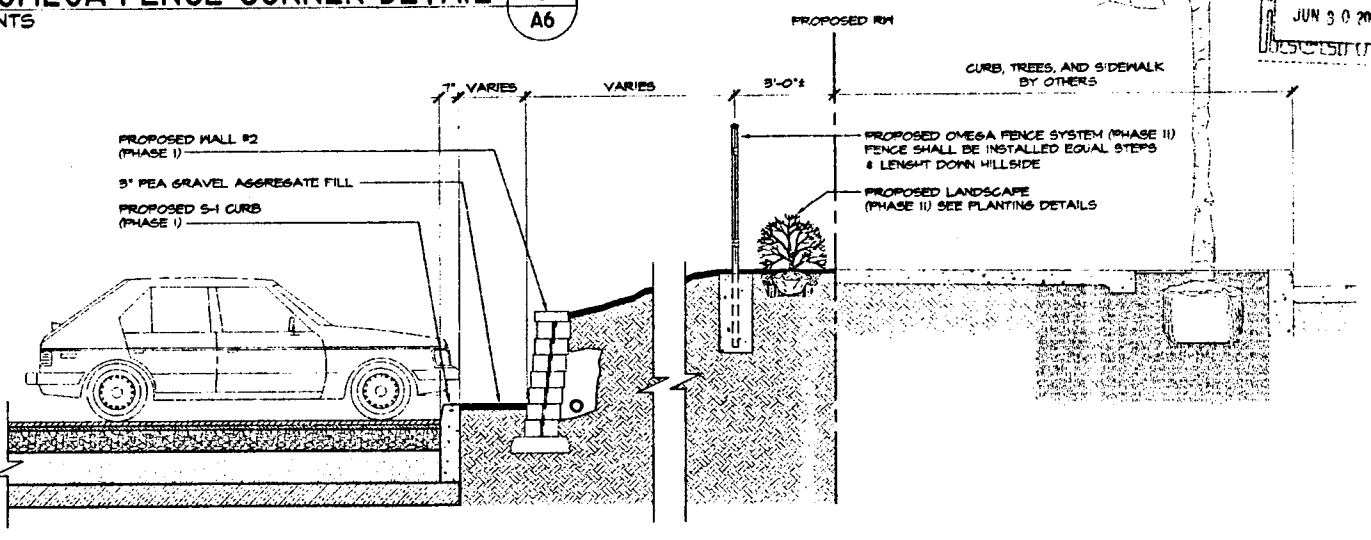
OMEGA FENCE CORNER DETAIL 6
 NTS A6



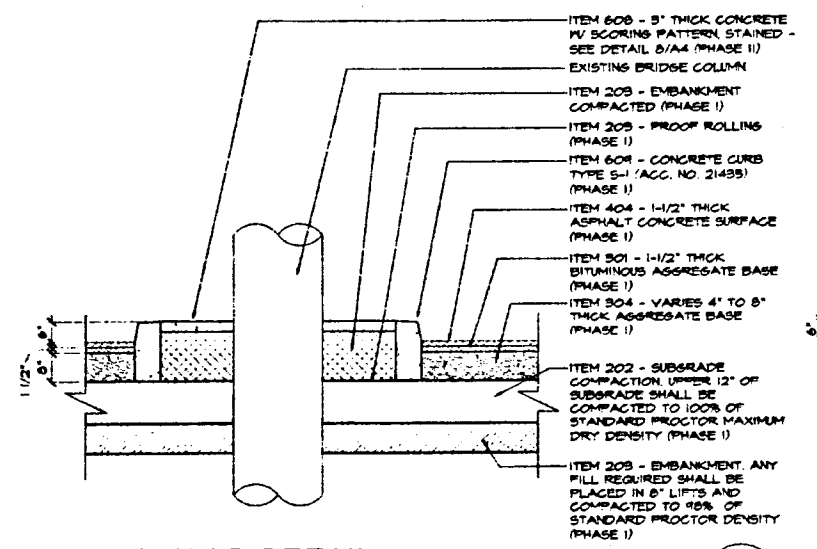
PERMITTED
 JUN 30 2000



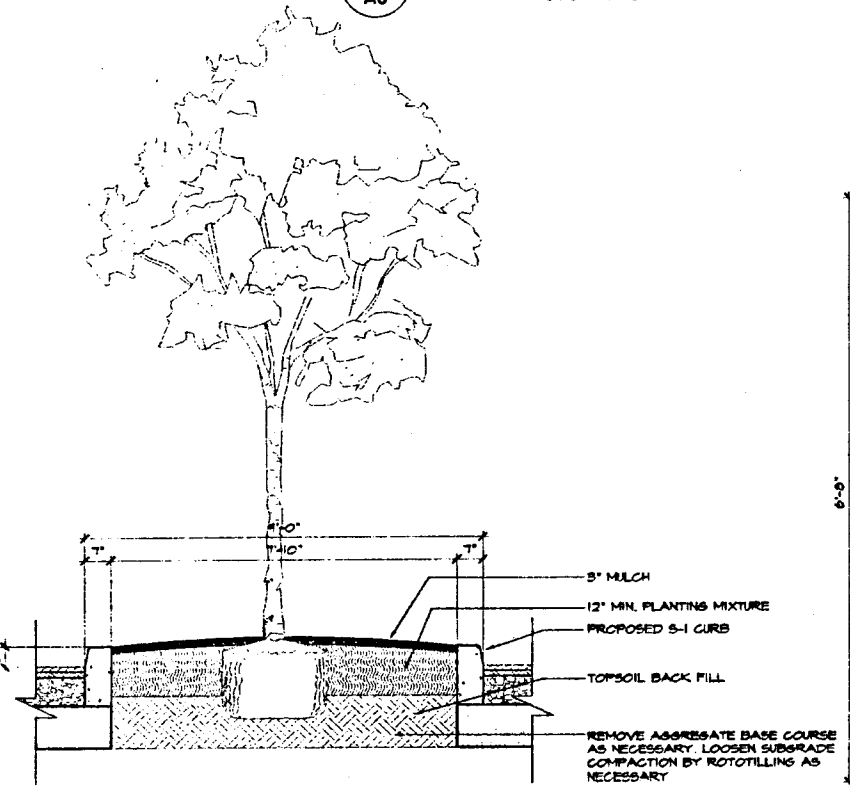
SECTION @ PETE ROSE WAY 1
 3/8"=1'-0" A6



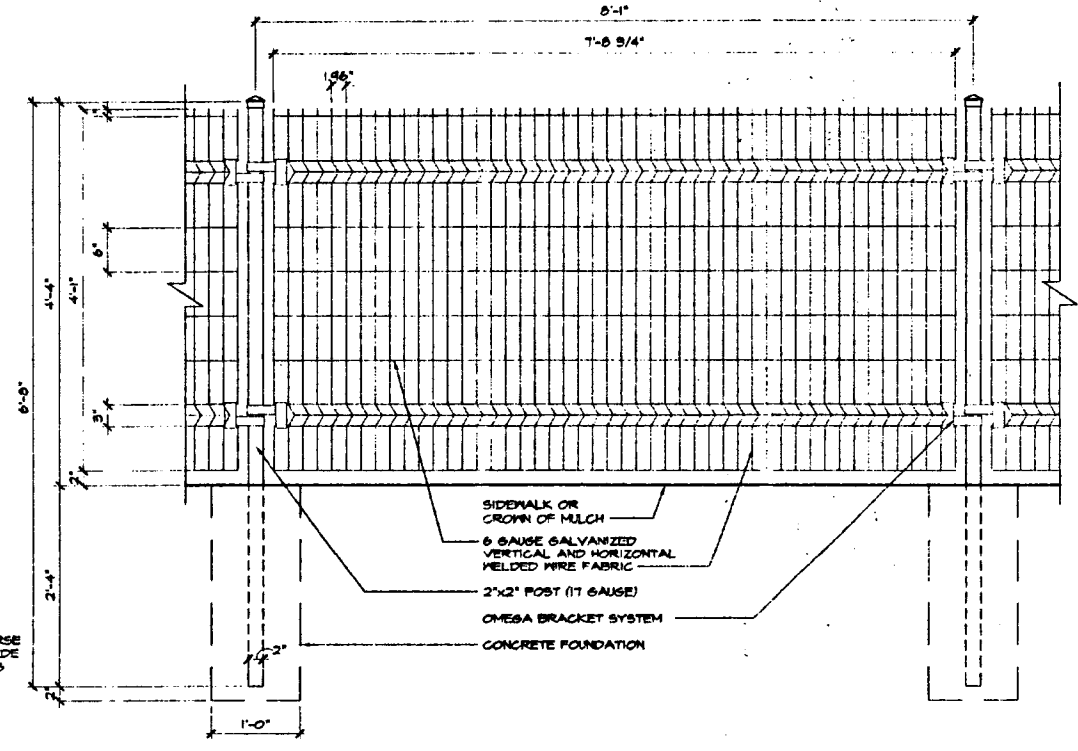
SECTION @ CENTRAL AVENUE 2
 3/8"=1'-0" A6



PARKING CURB DETAIL 3
 1/2"=1'-0" A6



LANDSCAPE CURB DETAIL 4
 1/2"=1'-0" A6



OMEGA FENCE DETAIL (PHASE I & II) 5
 1"=1'-0" A6

Consultant
 Consultant

**Proposed Parking Lot
 Crosset Lot**
 Central Avenue between
 3rd Street and Pete Rose Way

Issuances

Date	Description
6/16/00	PERMIT
6/23/00	BIDDING

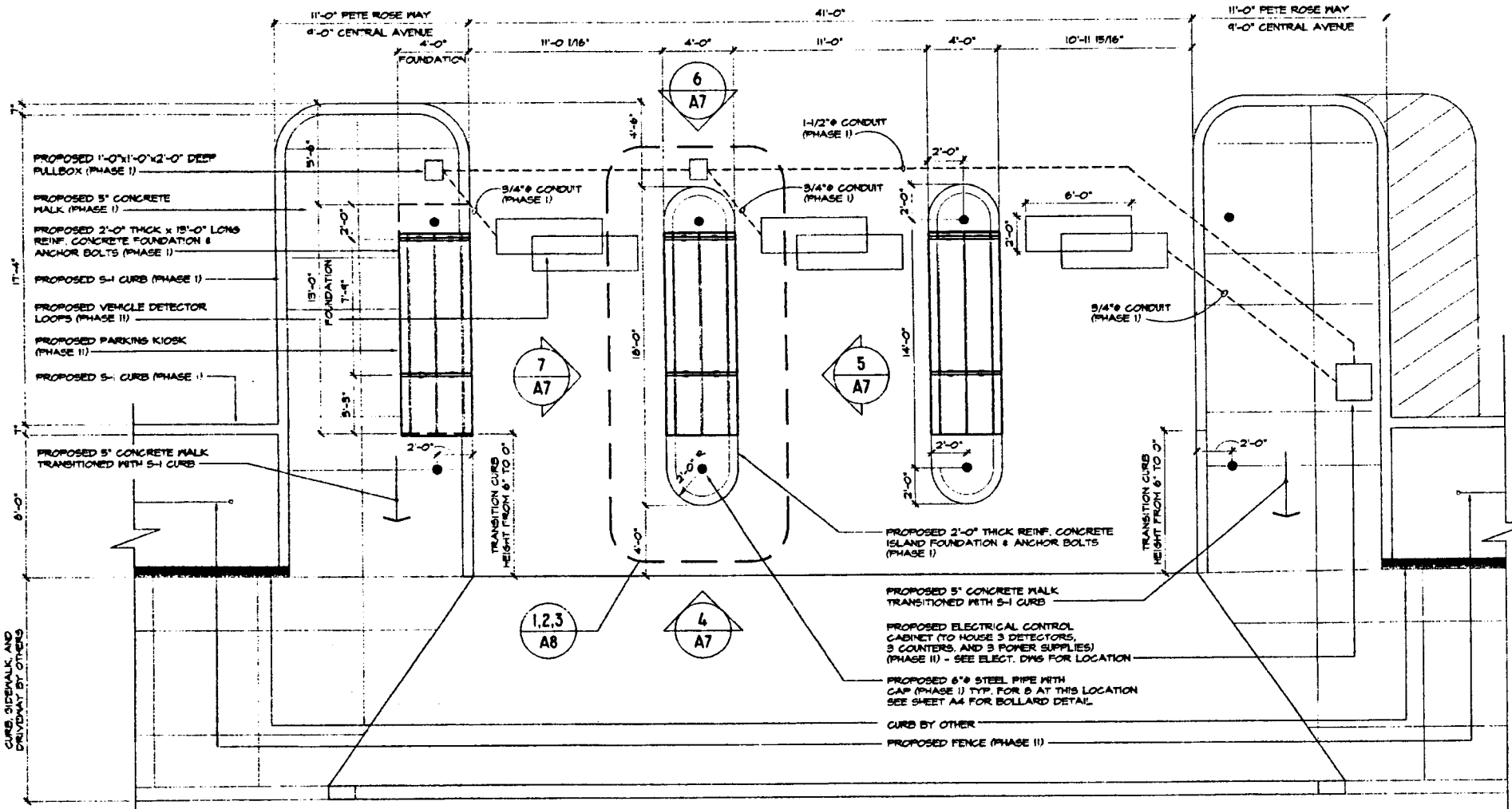
Revisions

No.	Date	Item

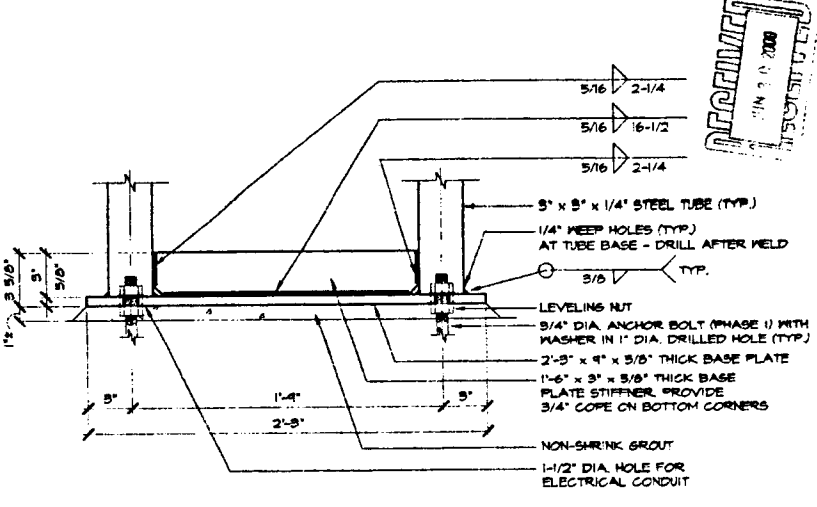
Sheet Title

**PLAN - ELEVATIONS
 Entrance Island & Kiosk**

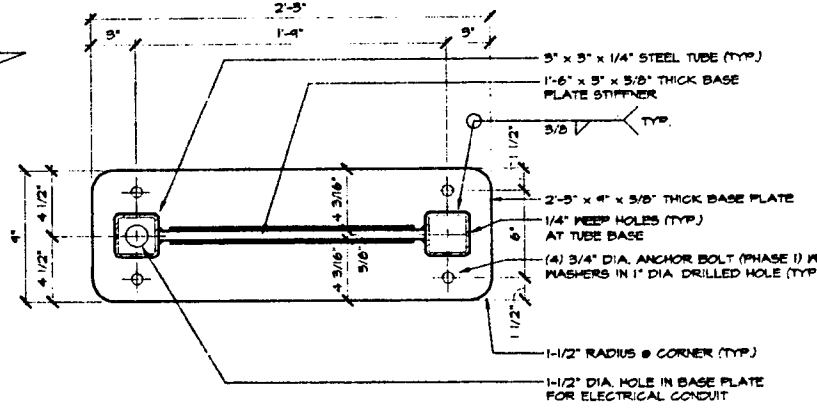
Scale as noted	Project No. 98-02505-00
Drawn by KJK	Sheet No. A7
Approved by MRM	Date 15 June 2000



PARKING ISLAND & KIOSK PLAN @ PETE ROSE WAY
 1/4"=1'-0"



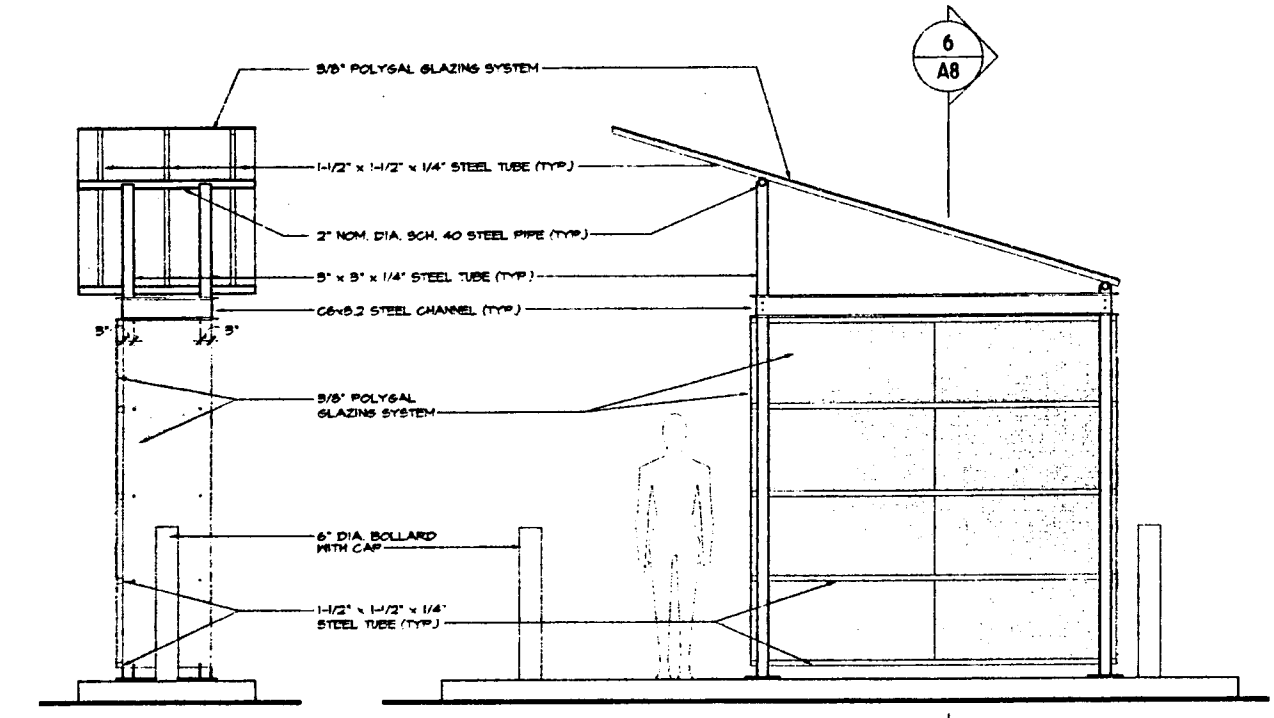
BASE PLATE ELEVATION (TYP.)
 2"=1'-0"



BASE PLATE PLAN (TYP.)
 2"=1'-0"

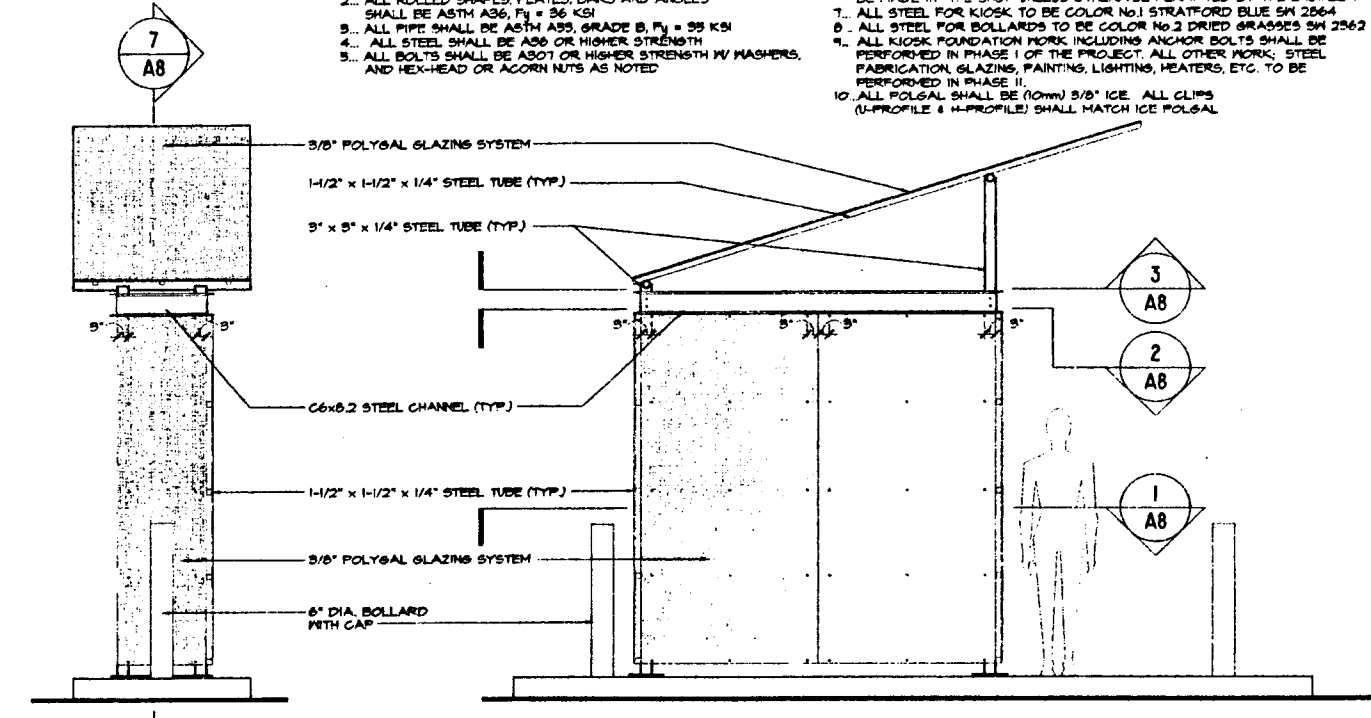
KIOSK STRUCTURE NOTES:

- ALL TUBE STEEL SHALL BE ASTM A 500, GRADE B, F_y = 46 KSI
- ALL ROLLED SHAPES, PLATES, BARS AND ANGLES SHALL BE ASTM A36, F_y = 36 KSI
- ALL PIPE SHALL BE ASTM A53, GRADE B, F_y = 55 KSI
- ALL STEEL SHALL BE A36 OR HIGHER STRENGTH
- ALL BOLTS SHALL BE A307 OR HIGHER STRENGTH W/ WASHERS, AND HEX-HEAD OR ACORN NUTS AS NOTED
- ALL FILLET WELDS SHALL BE E70 SHAW OR HIGHER STRENGTH AND SHALL BE MADE IN THE SHOP UNLESS OTHERWISE PERMITTED BY THE ENGINEER
- ALL STEEL FOR KIOSK TO BE COLOR NO. 1 STRATFORD BLUE SM 2864
- ALL STEEL FOR BOLLARDS TO BE COLOR NO. 2 DRIED GRASSES SM 2562
- ALL KIOSK FOUNDATION WORK INCLUDING ANCHOR BOLTS SHALL BE PERFORMED IN PHASE I OF THE PROJECT. ALL OTHER WORK, STEEL FABRICATION, GLAZING, PAINTING, LIGHTING, HEATERS, ETC. TO BE PERFORMED IN PHASE II.
- ALL POLYGAL SHALL BE (10mm) 5/8" ICE. ALL CLIPS (U-PROFILE & H-PROFILE) SHALL MATCH ICE POLYGAL



SOUTH ELEVATION
 1/2"=1'-0"

EAST ELEVATION OPEN SIDE
 1/2"=1'-0"



NORTH ELEVATION
 1/2"=1'-0"

WEST ELEVATION
 1/2"=1'-0"

Proposed Parking Lot
Crosset Lot
 Central Avenue between
 3rd Street and Pete Rose Way

Issues

Date	Description
6/16/00	PERMIT
6/29/00	BIDDING

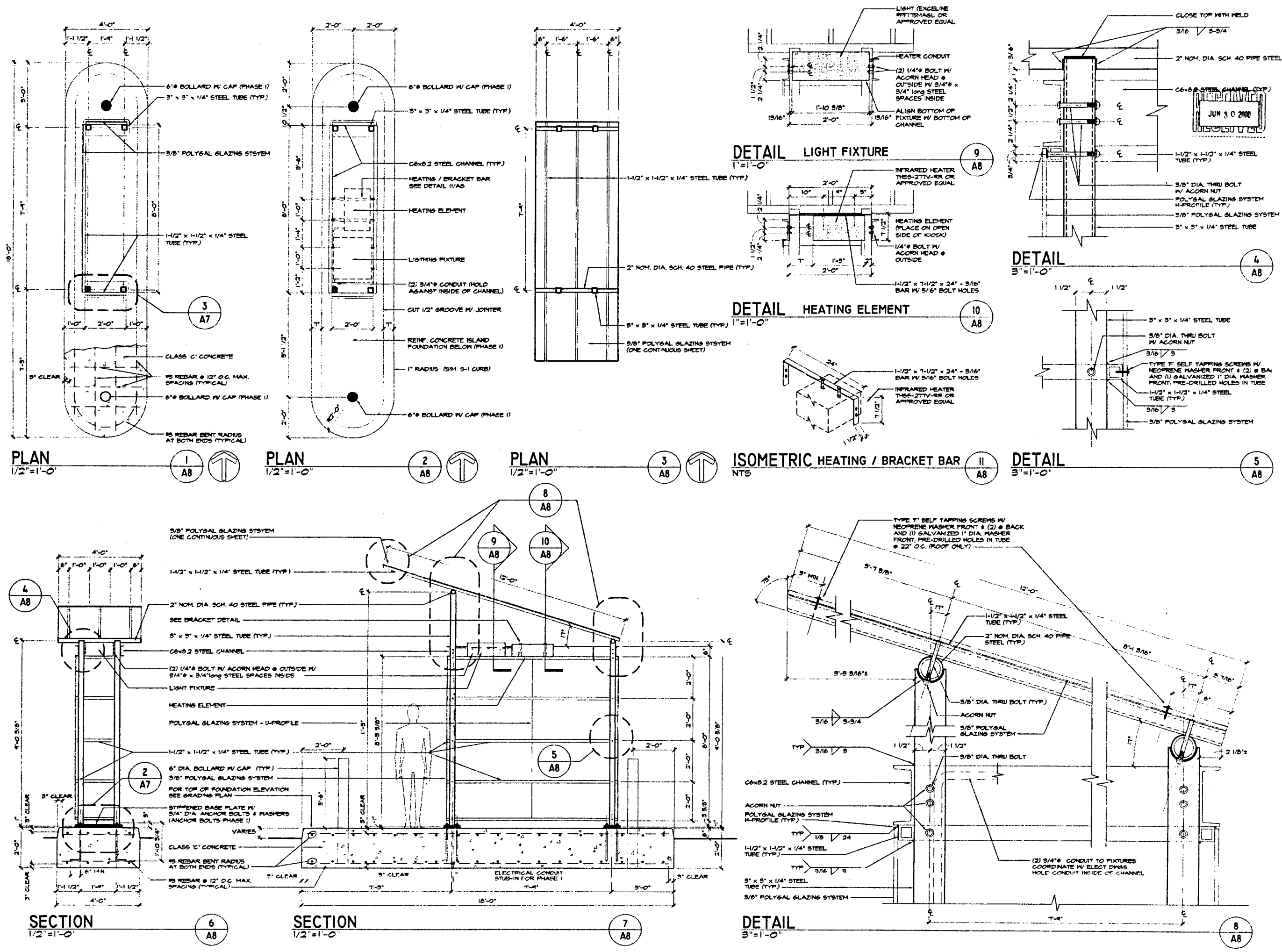
Revisions

No.	Date	Item

Sheet Title

PLAN - SECTIONS
 Entrance Kiosk

Scale as noted	Project No. 98-02505-
Drawn by KJK	Sheet No. A8
Approved by MRM	Date 16 June 2000



Robert J. ...
05/30/2000

Consultant
KZF

Consultant

Crossett Lot

ISSUANCES

Date	Description

Revisions

No.	Date	Item

Sheet Title

**ELECTRICAL
DETAILS, SINGLE LINE,
LEGEND, FLOOR PLAN**

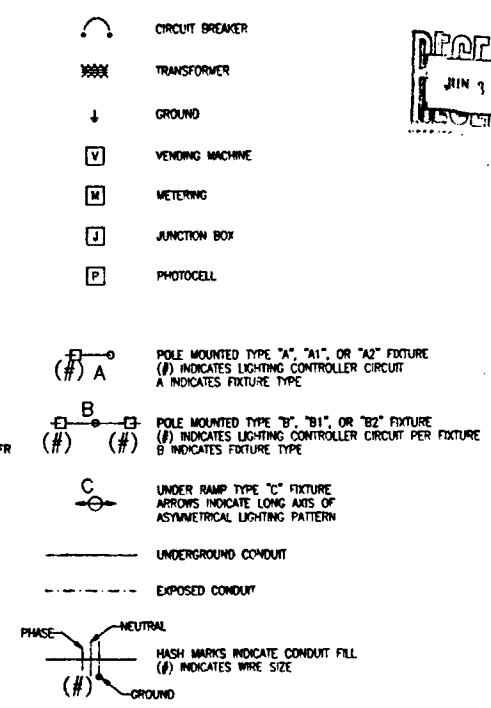
Scale as noted Project No. 4598.00

Drawn by CGR Sheet No.

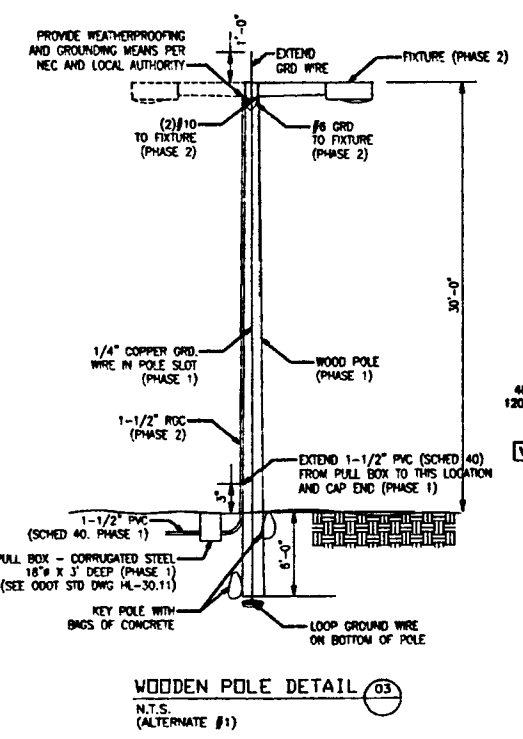
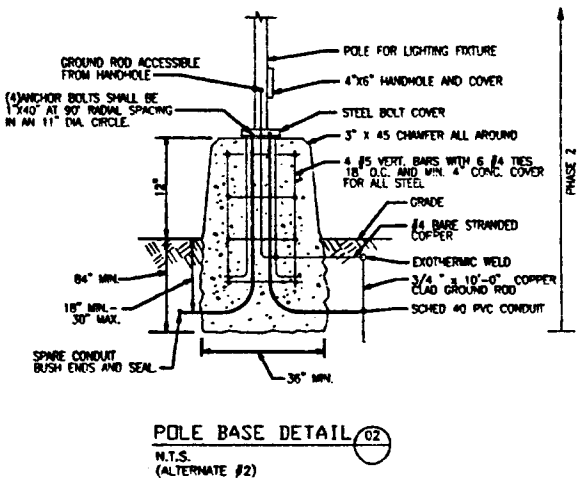
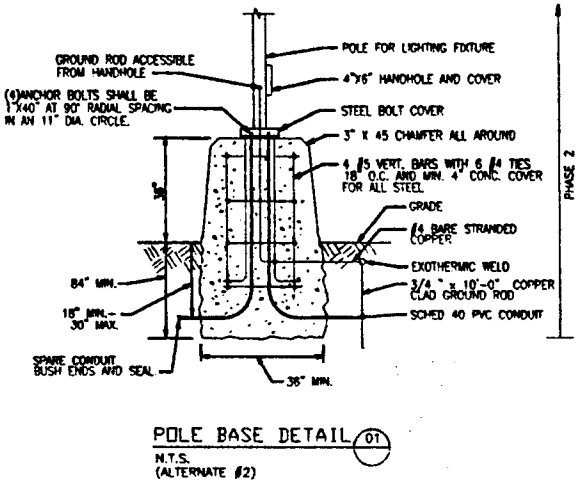
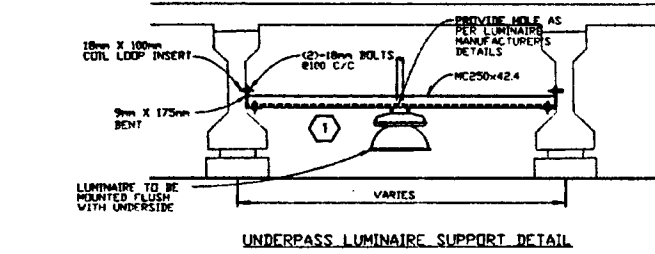
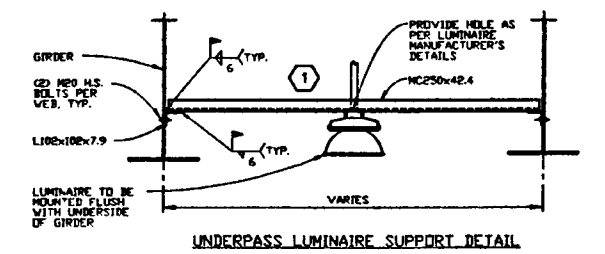
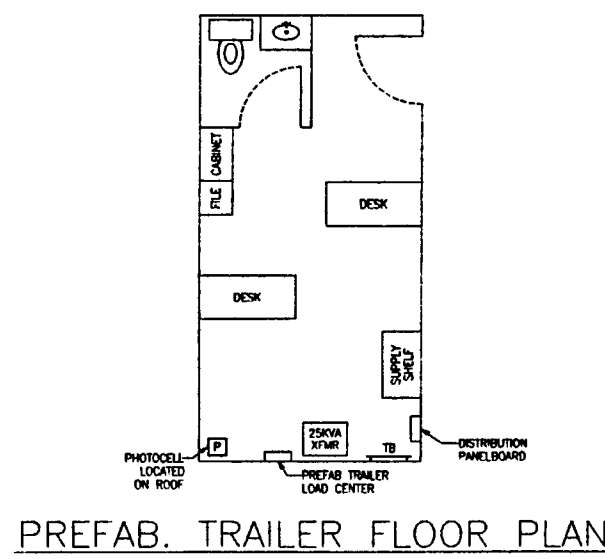
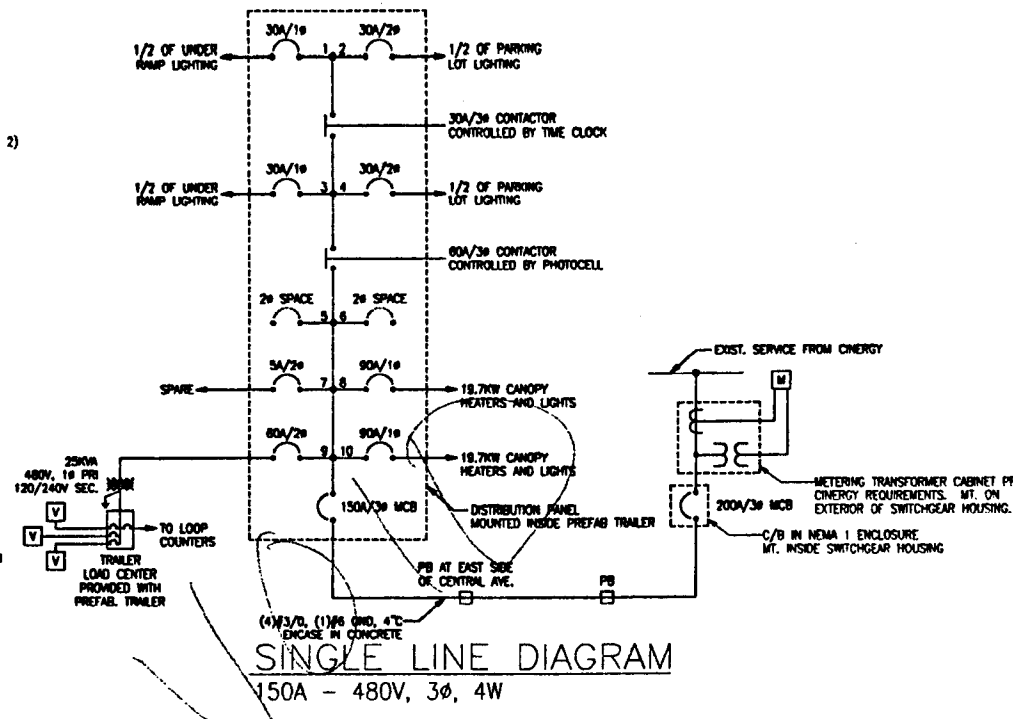
Approved by CL **E1.0C**

Date 05/30/2000

LEGEND



RECEIVED
JUN 30 2000
ELECTRICAL



FIXTURE SCHEDULE

FIXTURE NUMBER	QUANTITY	LAMPS		FIXTURE VOLTAGE	FIXTURE DESCRIPTION	MOUNTING			REMARKS
		FLUORESCENT	INCANDESCENT			WALL	POLE	SURFACE	
A	1	250	0	480	ALTERNATE #1: AMERICAN ELECTRIC #154-04633-AJ-N/153-1-N/153-1-N-WM OR EQUAL ALTERNATE #2: AMERICAN ELECTRIC #154-04633-AJ-N/153-1-N/SS27-6-7-12-GR. OR EQUAL	•		N/A	PROVIDE A 3' TALL POLE FOOTER SEE DETAIL 01 ON THIS DRAWING. ALTERNATE WOODEN POLES DO NOT REQUIRE CONCRETE FOOTER.
A1	1	250	0	480	ALTERNATE #1: AMERICAN ELECTRIC #154-04633-AJ-N/153-1-N/153-1-N-WM OR EQUAL ALTERNATE #2: AMERICAN ELECTRIC #154-04633-AJ-N/153-1-N/SS27-6-7-12-GR. OR EQUAL	•		N/A	PROVIDE A 1' TALL POLE FOOTER SEE DETAIL 02 ON THIS DRAWING. ALTERNATE WOODEN POLES DO NOT REQUIRE CONCRETE FOOTER.
A2	1	250	0	480	AMERICAN ELECTRIC #154-04633-AJ WITH 153-1-W-H WALL BRACKET OR EQUAL USE A 153-1-N-WM POLE MOUNT PLATE, OR EQUAL, TO MOUNT WALL BRACKET TO CURVED SURFACES.	•		30' A.F.G.	MOUNTED TO STRUCTURE WITH WALL BRACKET
B	2	175	0	480	ALTERNATE #1: AMERICAN ELECTRIC #154-04623-AJ-N/53-1-N/53-1-N-WM OR EQUAL ALTERNATE #2: AMERICAN ELECTRIC #154-04623-AJ-N/53-1-N/SS27-6-7-12-GR. OR EQUAL	•		N/A	PROVIDE A 3' TALL POLE FOOTER SEE DETAIL 01 ON THIS DRAWING. ALTERNATE WOODEN POLES DO NOT REQUIRE CONCRETE FOOTER.
B1	2	175	0	480	ALTERNATE #1: AMERICAN ELECTRIC #154-04623-AJ-N/53-1-N/53-1-N-WM OR EQUAL ALTERNATE #2: AMERICAN ELECTRIC #154-04623-AJ-N/53-1-N/SS27-6-7-12-GR. OR EQUAL	•		N/A	PROVIDE A 1' TALL POLE FOOTER SEE DETAIL 02 ON THIS DRAWING. ALTERNATE WOODEN POLES DO NOT REQUIRE CONCRETE FOOTER.
B2	1	175	0	480	AMERICAN ELECTRIC #154-04623-AJ WITH 53-1-W-H WALL BRACKET OR EQUAL USE A 53-1-N-WM POLE MOUNT PLATE, OR EQUAL, TO MOUNT WALL BRACKET TO CURVED SURFACES.	•		30' A.F.G.	MOUNTED TO STRUCTURE WITH WALL BRACKET
C	1	175	0	277	HOLESPRINGER #170M-277-P-A-F1, OR EQUAL	•		N/A	SEE UNDERPASS LUMINAIRE DETAILS FOR MOUNTING INFORMATION ON THIS DRAWING. SURFACE MOUNT LUMINAIRES WHERE BEAMS CANNOT BE UTILIZED.

NOTES THIS DRAWING

1. ALL PROPOSED STRUCTURAL STEEL THAT SUPPORTS THE TYPE "C" FIXTURE SHALL BE PAINTED WITH AN INORGANIC ZINC PRIMER, EPOXY INTERMEDIATE COAT AND A URETHANE TOP COAT. COLOR OF THE TOP COAT SHALL MATCH THE EXISTING SUPERSTRUCTURE.



Consultant
KZF
Consultant

Crosset Lot

Assurances	
Date	Description

Revisions		
No.	Date	Item

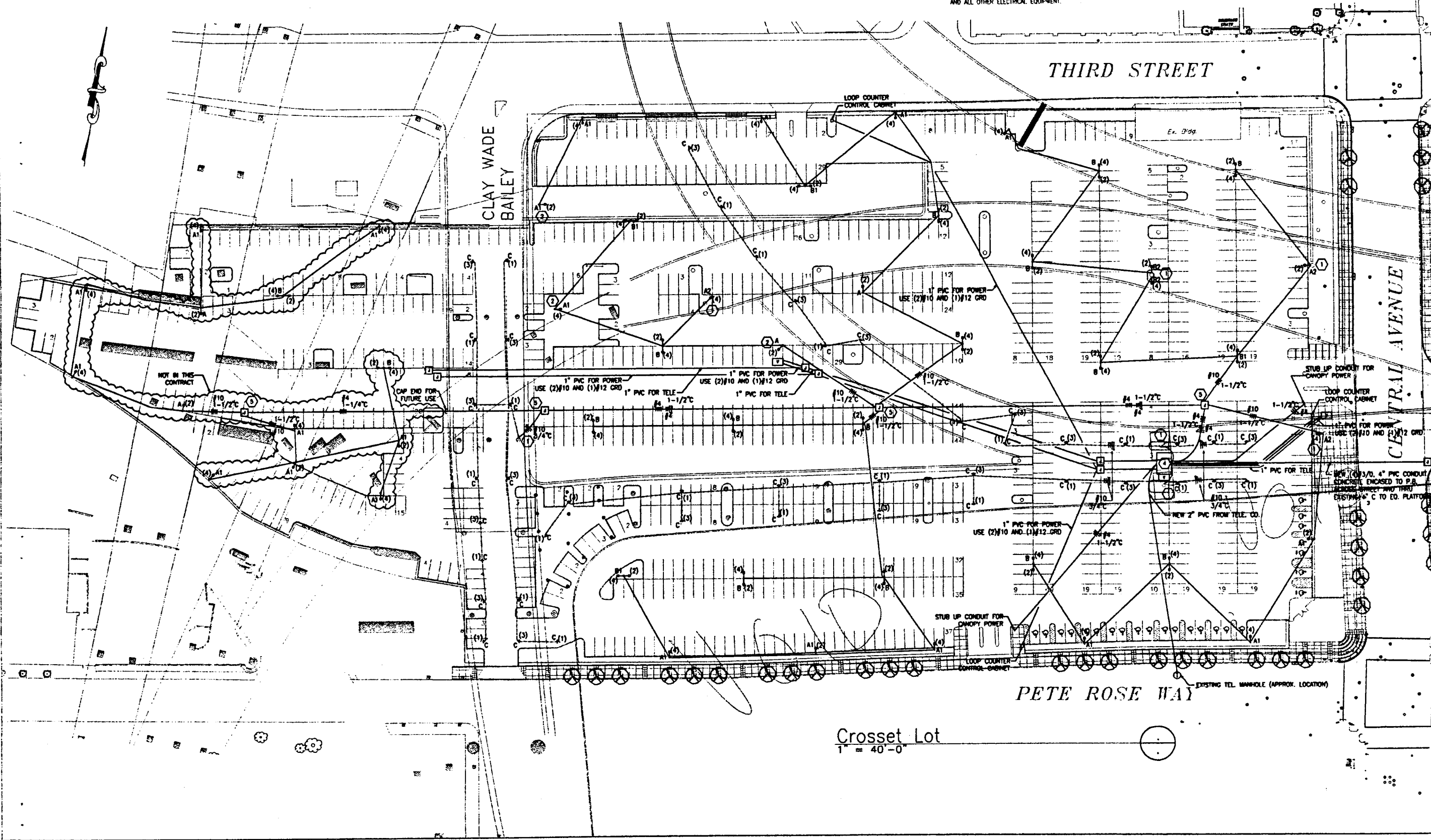
Sheet Title	
ELEC. UNDERGROUND PLANS	
Scale as noted	Project No. 4598.00
Drawn by CGR	Sheet No.
Approved by CL	E1.01
Date 05/30/2000	

GENERAL NOTES

- A. ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH STRUCTURE.
- B. TICKET VENDING MACHINES SHALL BE FED FROM TRAILER LOAD CENTER SPARE CIRCUITS WITH THE EXCEPTION OF THE VENDING MACHINE FED FROM THE EXTERNAL TRANSFORMER.
- C. ALL UNDERGROUND CONDUIT SHALL BE AT LEAST 30" BELOW THE FINISHED GRADE.
- D. PROJECT SHALL BE COMPLETED IN PHASES. PHASE ONE SHALL CONSIST OF ALL UNDERGROUND CONDUIT. AN ALTERNATE TO PHASE ONE SHALL CONSIST OF ALL UNDERGROUND CONDUIT AND WOODEN POLES (SEE WOODEN POLE DETAIL ON SHEET E1.00). PHASE TWO SHALL CONSIST OF WIRING, LUMINAIRES, STEEL POLES WITH FOUNDATIONS IF APPLICABLE, AND ALL OTHER ELECTRICAL EQUIPMENT.

NOTES THIS DRAWING

1. CONDUIT SHALL BE RUN UP FACE OF COLUMN TO FIXTURE MOUNTED ON THE STRUCTURE.
2. PROVIDE HOUSE SIDE GLARE SHIELD.
3. NOT USED
4. PREFAB TRAILER PROVIDED BY OTHERS. VENDING MACHINE ADJACENT TO TRAILER TO BE CONNECTED TO LOAD CENTER WITH (2) #10 AND (1) #12 GND. PROVIDE TELE. CONNECTION AS NECESSARY.
5. TAPS FROM #4 DISTRIBUTION CABLES TO #10 BRANCH FEEDERS SHALL BE MADE WITH A 10A FUSED CONNECTOR KIT INSIDE OF JUNCTION BOX.



Crosset Lot
1" = 40'-0"

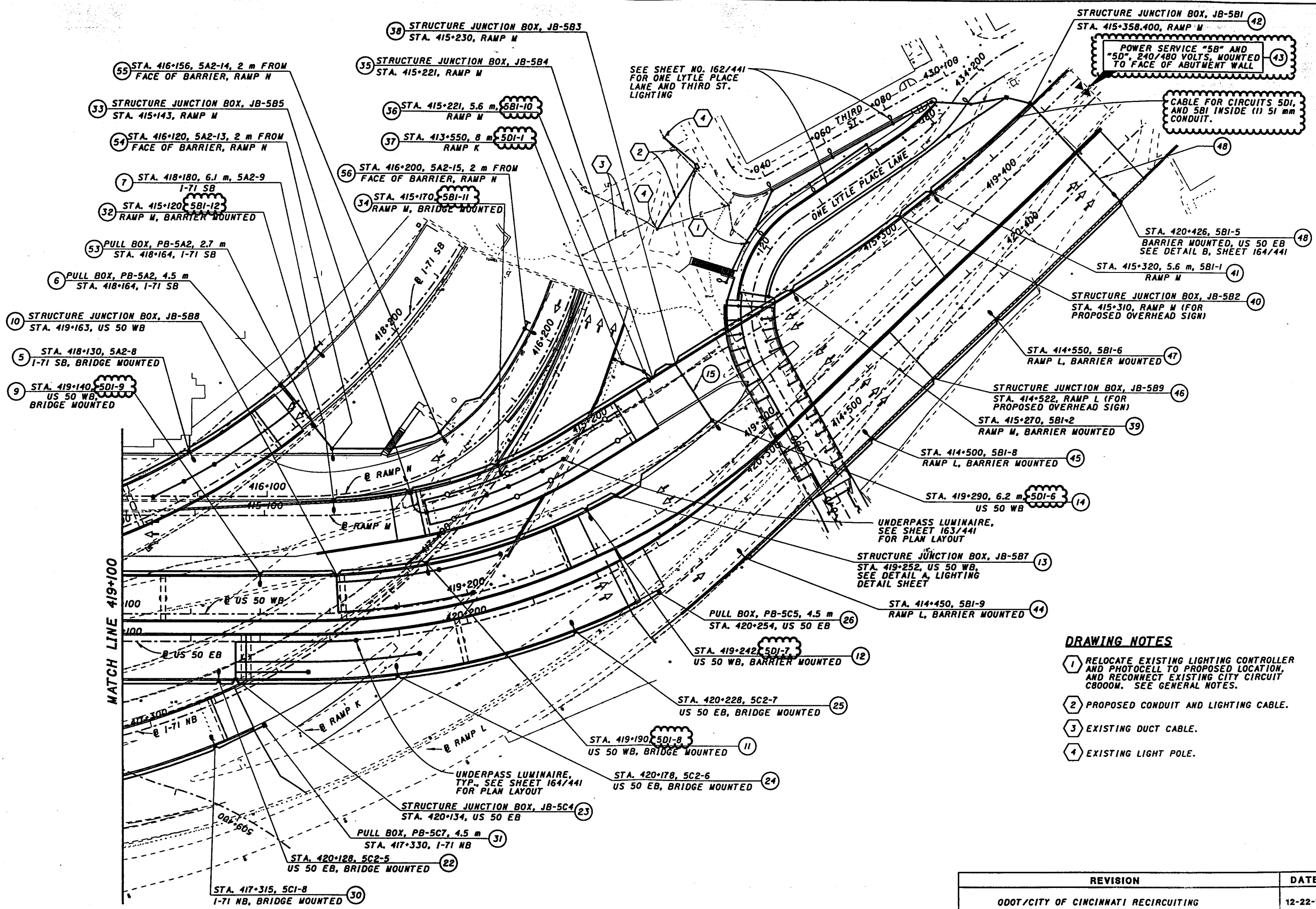
SHEET NUMBER

SHEET NUMBER										ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
156	158	159													
	44	32							625	00500	76	EACH	CONNECTOR KIT, TYPE II		
		2							625	01004	2	EACH	CONNECTOR KIT, TYPE VII B		
		1							625	01100	1	EACH	CONNECTOR KIT, TYPE VII C		
	54	18							625	01500	72	EACH	CABLE SPLICING KIT		
	18	4							625	10500	22	EACH	LIGHT POLE, MISC.; DESIGN A1.0B11.2, AS PER PLAN	165	
		1							625	10500	2	EACH	LIGHT POLE, MISC.; DESIGN ST1.0B6.4, AS PER PLAN	165	
		1							625	10500	1	EACH	LIGHT POLE, MISC.; DESIGN ST1.0B9.6, AS PER PLAN	165	
		8							625	10500	8	EACH	LIGHT POLE, MISC.; VICTORIAN, AS PER PLAN	156	
		1							625	10500	1	EACH	LIGHT POLE, MISC.; DESIGN ST1.0B11.2, AS PER PLAN	165	
	3	1							625	10500	4	EACH	LIGHT POLE, MISC.; DESIGN ST1.0B11.7, AS PER PLAN	165	
		72							625	10600	88	EACH	LIGHT POLE ANCHOR L-BOLTS		
		1							625	14000	9	EACH	LIGHT POLE FOUNDATION, 610 mm X 1.8 m DEEP		
		3							625	14100	4	EACH	LIGHT POLE FOUNDATION, 610 mm X 2.4 m DEEP		
	5130	2082							625	23000	7212	METER	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE		
	583	278							625	23400	861	METER	NO. 10 AWG POLE AND BRACKET CABLE		
		966							625	25400	1163	METER	CONDUIT, 51 mm, 713.04		
		237							625	25500	532	METER	CONDUIT, 76 mm, 713.04		
		22							625	26250	30	EACH	LUMINAIRE, CONVENTIONAL, TYPE III, 400 WATT HPS, 480 VOLT		
									625	27500	19	EACH	LUMINAIRE, UNDERPASS, 150 WATT HPS, 713J3, 480 VOLT		
									625	27600	8	EACH	LUMINAIRE, MISC.; VICTORIAN, ACORN STYLE	156	
	33								625	27600	33	EACH	LUMINAIRE, MISC.; DIRECT, RECESSED	156	
	26								625	27600	26	EACH	LUMINAIRE, MISC.; INDIRECT, SURFACE MOUNTED	156	
		277							625	29002	572	METER	TRENCH, 0.6 m DEEP		
		26							625	29920	32	EACH	STRUCTURE JUNCTION BOX		
		8							625	30706	12	EACH	PULL BOX, 713.08, 600 mm		
		4							625	32000	16	EACH	GROUND ROD		
		5							625	33000	5	EACH	STRUCTURE GROUNDING SYSTEM		
		2			2				625	34001	4	EACH	POWER SERVICE, AS PER PLAN	156	
	LUMP								625	37000	LUMP		SERVICE TO UNDERPASS LIGHTING	156	
	LUMP								625	38000	LUMP		HIGH VOLTAGE TEST	156	
	LUMP								625	98200	LUMP		LIGHTING, MISC.; BOX GIRDER INTERIOR LIGHTING	156	
	LUMP								625	98200	LUMP		LIGHTING, MISC.; SERVICE FOR ONE LYTLE PLACE LANE	156	
	LUMP								625	98200	LUMP		LIGHTING, MISC.; RECONNECT EXISTING CITY CIRCUIT C8000M	156	

REVISION	DATE
ODOT/CITY OF CINCINNATI RECIRCUITING	12-22-99

REFERENCE NO.	SHEET NO.	SIDE	ROADWAY	STATION TO STATION	625																							
					LIGHT POLE, MISC. DESIGN ST10B1L2, AS PER PLAN	LIGHT POLE, MISC. DESIGN ST10B1L1, AS PER PLAN	LIGHT POLE, MISC. DESIGN ST10B1L2, AS PER PLAN	LIGHT POLE, MISC. DESIGN ST10B9.6, AS PER PLAN	LIGHT POLE, MISC. DESIGN ST10B6.4, AS PER PLAN	LIGHT POLE, MISC. VICTORIAN, AS PER PLAN	LUMINAIRE, CONVENTIONAL TYPE III, 400 WATT HPS, 480 VOLT	LUMINAIRE, UNDERPASS, 150 WATT HPS, 713J3, 480 VOLT	LUMINAIRE, MISC. VICTORIAN, ACORN STYLE	LIGHT POLE FOUNDATION, 610 mm X 1.8 DEEP	LIGHT POLE FOUNDATION, 610 mm X 2.4 m DEEP	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE	TRENCH, 0.6 m DEEP	CONDUIT, 51 mm, 713.04	CONDUIT, 76 mm, 713.04	PULL BOX, 713.08, 600 mm	CABLE SPLICING KIT	POWER SERVICE, AS PER PLAN	NO. 10 AWG POLE AND BRACKET CABLE	CONNECTOR KIT, TYPE II	CONNECTOR KIT, TYPE VII B	CONNECTOR KIT, TYPE VII C	GROUND ROD	LIGHT POLE ANCHOR L-BOLTS
					EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	METER	METER	METER	METER	EACH	EACH	EACH	METER	EACH	EACH	EACH	EACH	EACH	EACH
41	161	LT.	RAMP M	415+308 TO 415+320		1				1				1	135	6	12	6		3		27	2			1	1	
42	161	LT.	RAMP M	415+320 TO 415+358											405		42			6								
43	161	LT.	RAMP M	415+354 TO 415+358											90	12		12	1		2							
44	161	RT.	RAMP L	414+450 TO 414+500	1					1					159		50					27	2			4	1	
45	161	RT.	RAMP L	414+500 TO 414+525	1					1					84		25					27	2			4	1	
46	161	RT.	RAMP L	414+525 TO 414+550											84		25			3							1	
47	161	RT.	—	414+550 (RAMP L) TO 420+430 (US 50 EB)	1					1					168		53					27	2			4	1	
48	161	RT.	US 50 EB	420+426	1					1					126	39		39				27	2			4	1	
49	163	—	—	BRIDGE 18																								
50	164	—	—	BRIDGE 17																								
51	164	—	—	BRIDGE 19																								
52	164	—	—	BRIDGE 20																								
53	161	—	I-71 SB	418+164											54	15		15	1	3								
54	161	—	—	418+164 (I-71 SB) TO 416+120 (RAMP N)					1	1					36	9		9				16	2			1		
55	161	RT.	RAMP N	416+120 TO 416+156					1	1					105	32		32				22	2			1		
56	161	RT.	RAMP N	416+156 TO 416+200			1			1					135	42		42				25	2			1		
57	162	LT.	LYTLE PLACE	434+108 TO 434+122						1			1	1	51	14		14				10	2	2	1	1		
58	162	LT.	—	434+122 (LYTLE PL.) TO 430+040 (THIRD ST.)						1			1	1	45	12		12				10	2			1		
59	162	RT.	THIRD ST.	430+040 TO 430+060						1			1	1	69	20		20				10	2			1		
60	162	RT.	THIRD ST.	430+060 TO 430+080						1			1	1	69	20		20				10	2			1		
61	162	RT.	THIRD ST.	430+080 TO 430+093						1			1	1	48	13		13				10	2			1		
62	162	RT.	—	430+093 (THIRD ST.) TO 434+190 (LYTLE PL.)											42	11		11	1	3								
63	162	RT.	LYTLE PLACE	434+190 TO POWER SERVICE "58"						1			1	1	39	10		10				10	2			1		
64	162	RT.	LYTLE PLACE	434+122 TO 434+140						1			1	1	69	20		20				10	2			1		
65	162	RT.	LYTLE PLACE	434+140 TO 434+160						1			1	1	69	20		20				10	2			1		
TOTALS CARRIED TO GENERAL SUMMARY					4	1	1	1	1	8	8	19	8	8	1	2082	295	207	295	4	18	278	32	2	1	12	16	6

REVISION	DATE
0007/CITY OF CINCINNATI RECIRCUITING	12-22-99

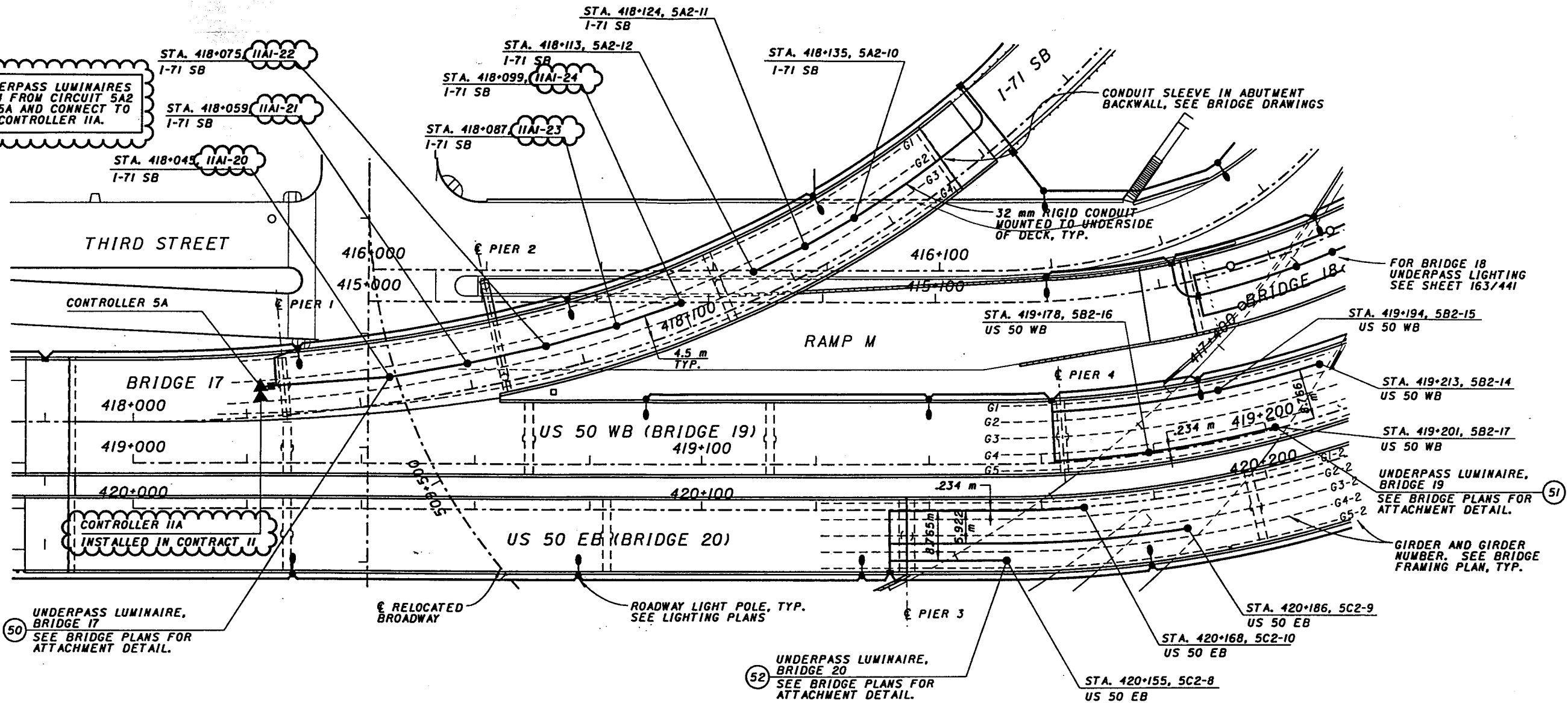


DRAWING NOTES

- 1 RELOCATE EXISTING LIGHTING CONTROLLER AND PHOTOCELL TO PROPOSED LOCATION, AND RECONNECT EXISTING CITY CIRCUIT C8000M. SEE GENERAL NOTES.
- 2 PROPOSED CONDUIT AND LIGHTING CABLE.
- 3 EXISTING DUCT CABLE.
- 4 EXISTING LIGHT POLE.

REVISION	DATE
0007/CITY OF CINCINNATI RECIRCUITING	12-22-99

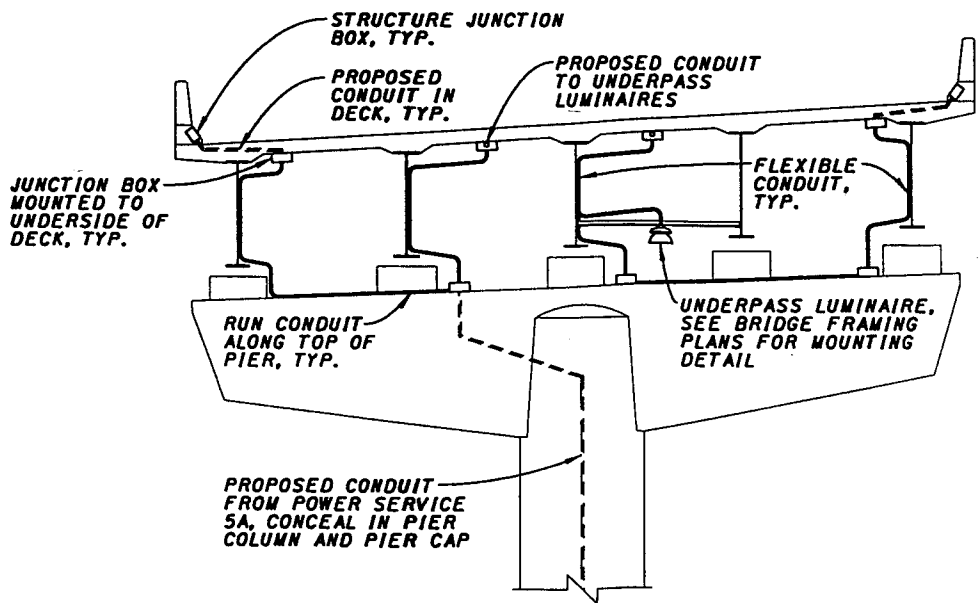
DISCONNECT UNDERPASS LUMINAIRES 11AI-20 TO 11AI-24 FROM CIRCUIT 5A2 ON CONTROLLER 5A AND CONNECT TO CIRCUIT 11AI ON CONTROLLER 11A.



50 UNDERPASS LUMINAIRE, BRIDGE 17 SEE BRIDGE PLANS FOR ATTACHMENT DETAIL.

52 UNDERPASS LUMINAIRE, BRIDGE 20 SEE BRIDGE PLANS FOR ATTACHMENT DETAIL.

51 UNDERPASS LUMINAIRE, BRIDGE 19 SEE BRIDGE PLANS FOR ATTACHMENT DETAIL.



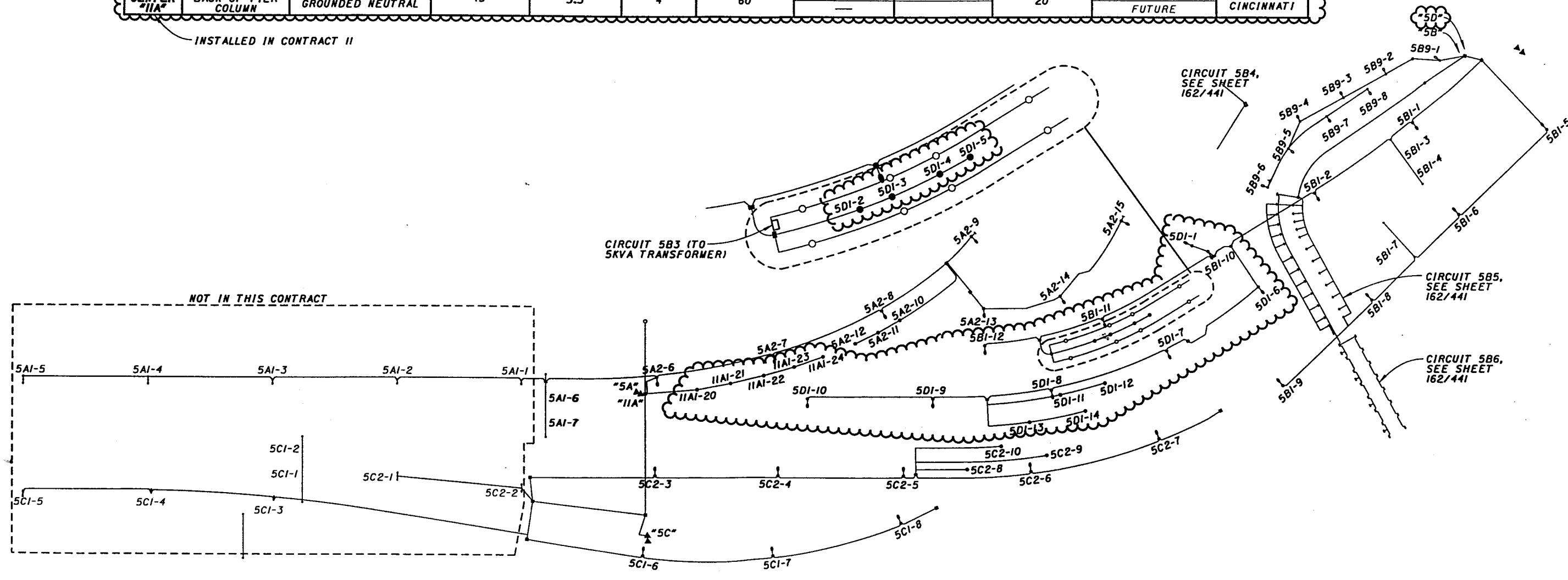
TYPICAL CONDUIT ROUTING FOR UNDERPASS LUMINAIRES

REVISION	DATE
0007/CITY OF CINCINNATI RECIRCULATING	12-22-99

POWER SERVICE DATA

CONTROL CENTER LOCATION	POWER SERVICE	TRANSFORMER (KVA)	CONNECTED LOAD (KVA)	SERVICE ENTRANCE CONDUCTOR SIZE AWG	ENCLOSURE RATING (AMPS)	CIRCUIT NUMBER	CIRCUIT LOAD (AMPS)	CIRCUIT FUSE SIZE (AMPS)	REMARKS	MAINTAINING AGENCY	
CONTROL CENTER "5A"	MOUNTED ON BACK OF PIER COLUMN	240/480 VOLT 3 WIRE GROUNDED NEUTRAL	30	7.9	4	60	5A1 5A2	8.1 8.3	20	5A1-1 TO 5A1-7 5A2-6 TO 5A2-15	CITY OF CINCINNATI
CONTROL CENTER "5B"	RAMP W STA. 415-354, 12 m LT.	240/480 VOLT 3 WIRE GROUNDED NEUTRAL	75	20	4	200	5B1 5B3 5B5 5B6 5B9	12.1 10.4 19.5 (240V) 11 (240V) 3.3	20	SRVA TRANSFORMER 5B5-1 TO 5B5-24 5B6-1 TO 5B6-20 5B9-1 TO 5B9-8	CITY OF CINCINNATI
CONTROL CENTER "5C"	EXISTING BROADWAY STA. 2-040	240/480 VOLT 3 WIRE GROUNDED NEUTRAL	45	9.2	4	60	5C1 5C2	8.5 10.6	20	5C1-1 TO 5C1-8 5C2-1 TO 5C2-10	CITY OF CINCINNATI
CONTROL CENTER "5D"	RAMP W STA. 415-354, 12 m LT.	240/480 VOLT 3 WIRE GROUNDED NEUTRAL	15	4.1	4	60	5D1	8.5	20	5D1-1 TO 5D1-14	CITY OF CINCINNATI
CONTROL CENTER "11A"	MOUNTED ON BACK OF PIER COLUMN	240/480 VOLT 3 WIRE GROUNDED NEUTRAL	15	5.3	4	60	11A1	11	20	11A1-1 TO 11A1-24 FUTURE	CITY OF CINCINNATI

INSTALLED IN CONTRACT II



CIRCUIT DIAGRAM

REVISION	DATE
ODOT/CITY OF CINCINNATI RECIRCUITING	12-22-99

UNDERPASS LUMINAIRES

UNDERPASS LUMINAIRES SHALL BE HOLLOPHANE "BANTAM PRISMATITE" OR EQUAL APPROVED BY THE ENGINEER, AND SHALL BE FURNISHED WITH AN INTEGRAL FUSE HOLDER AND 5-AMPERE FUSE. THE INTEGRAL HIGH PRESSURE SODIUM BALLAST SHALL BE OF A REGULATOR TYPE RATED FOR 240 VOLTS, 150 WATTS.

ITEM 625 - SERVICE TO UNDERPASS LIGHTING

THIS ITEM SHALL CONSIST OF PROVIDING COMPLETE ELECTRICAL SERVICE, EXCEPT FOR LUMINAIRES AND STRUCTURE GROUNDING FOR THE UNDERPASS LIGHTING SYSTEM.

THE INSTALLATION WORK SHALL INCLUDE CONDUITS, INCLUDING THE ADDITIONAL CONDUIT IN RAMP B FROM STA. 401+373 TO STA. 401+483, CONDUIT GROUNDING, MOUNTINGS, FITTINGS, JUNCTION BOXES, INCLUDING THE JUNCTION BOXES ON RAMP B AT STA. 401+373 AND STA. 401+483, CABLES, AND ALL INCIDENTALS NECESSARY TO COMPLETE, READY FOR USE, THE SERVICE AT THE LOCATIONS SHOWN IN THE PLANS AND ACCORDING TO THE DETAILS. THE CONTRACTOR SHALL USE NO. 10 AWG 5000 VOLT WIRE FOR RUNS LESS THAN 23 METERS AND NO. 6 AWG 5000 VOLT WIRE FOR RUNS GREATER THAN 23 METERS. THE LUMP SUM BID PRICE FOR ITEM 625 - SERVICE TO UNDERPASS LIGHTING, SHALL INCLUDE PAYMENT FOR ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED. COMPONENT PARTS NOT SPECIFICALLY MENTIONED BUT REQUIRED FOR SATISFACTORY OPERATION OF THIS ITEM SHALL BE FURNISHED AND CONSIDERED PAID FOR AS PART OF THE ITEM.

PADLOCKS AND KEYS

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, MASTER NO. 4BKA OR WILSON BOHANNAN 660A, OR EQUAL, AS APPROVED BY THE ENGINEER, AND SHALL BE KEYED IN ACCORDANCE WITH SPECIFICATION 631.08, PARAGRAPH 3. PAYMENT SHALL BE INCLUDED IN THE BID ITEM(S) BEING LOCKED.

HIGH VOLTAGE TEST

THIS TEST SHALL BE CONDUCTED ACCORDING TO THE CONSTRUCTION AND MATERIAL SPECIFICATIONS. A LUMP SUM PAYMENT HAS BEEN INCLUDED IN THE GENERAL SUMMARY.

EXPANSION FITTINGS

EXPANSION FITTINGS FOR STEEL CONDUIT SHALL BE OZ TYPE AX-200, CROUSE HINDS TYPE XJ-64, APPLETON TYPE XJ-200-4, OR EQUAL APPROVED BY THE ENGINEER. EACH EXPANSION FITTING SHALL HAVE A COPPER BONDING JUMPER. PAYMENT FOR EXPANSION FITTINGS SHALL BE INCLUDED WITH THE RELATED CONDUIT.

LUMINAIRES

IN ADDITION TO THE REQUIREMENTS OF THE DEPARTMENT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LUMINAIRES SHALL BE AS FOLLOWS:

LOW PROFILE, CUT-OFF, FLAT GLASS, IES DISTRIBUTION TYPE III, AS MANUFACTURED BY AMERICAN ELECTRIC, MODEL NO. 153-06643-AJ, TEST #AE38191, OR EQUAL AS APPROVED BY THE ENGINEER. THE INTEGRAL HIGH PRESSURE SODIUM BALLAST SHALL BE OF A REGULATOR TYPE RATED FOR 480 VOLTS, 400 WATTS. COLOR TO BE FEDERAL STANDARD NO. 20372 OF FS595.

713.14 LAMPS

HIGH PRESSURE SODIUM LAMPS SHALL BE GENERAL ELECTRIC "LUCALOX", PHILIPS "CERAMALUX", SYLVANIA "LUMALUX", OR EQUAL APPROVED BY THE ENGINEER.

ITEM 625 - LIGHTING, MISC. CONDUIT FOR ARTIMIS CABLE

CONTRACTOR TO PROVIDE 51 mm CONDUIT FOR ARTIMIS POWER CABLE, AND 102 mm CONDUIT FOR ARTIMIS DATA CABLE. CONDUIT SHALL BE SUPPLIED FROM THE ARTIMIS CONTROLLER LOCATION TO THE MESSAGE SIGN SUPPORT AT THE LOCATION INDICATED IN THE PLANS. IF DATA CABLE AND POWER CABLE ARE TO BE ROUTED IN THE SAME SIGN SUPPORT, AN ADDITIONAL 51 mm CONDUIT SHALL BE PROVIDED TO ENCLOSE THE POWER CABLE, KEEPING IT SEPARATE FROM THE DATA CABLE INSIDE THE SUPPORT. CONTRACTOR SHALL VERIFY ARTIMIS CONTROLLER LOCATION PRIOR TO INSTALLATION OF CONDUIT.

CONDUIT SHALL BE AS PER 713.04 IF ROUTED ON EXTERIOR OF PIER AND PIER CAP, OR AS PER 713.07 IF CONCEALED IN PIER AND PIER CAP. ENGINEER SHALL APPROVE METHOD OF ROUTING.

THE INSTALLATION WORK SHALL INCLUDE CONDUITS, CONDUIT GROUNDING, MOUNTINGS, FITTINGS, AND ALL INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED. COMPONENT PARTS NOT SPECIFICALLY MENTIONED BUT REQUIRED FOR SATISFACTORY INSTALLATION OF THIS ITEM SHALL BE FURNISHED AND CONSIDERED PAID FOR AS PART OF THE ITEM.

A LUMP SUM PAYMENT FOR ITEM 625 - LIGHTING, MISC. CONDUIT FOR ARTIMIS CABLE HAS BEEN INCLUDED IN THE GENERAL SUMMARY.

REVISION	DATE
0007/CITY OF CINCINNATI RECIRCUITING	12-22-99

SHEET NUMBER

2

4

ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
	36	00500	36	EACH	CONNECTOR KIT, TYPE II
	24	01500	24	EACH	CABLE SPLICING KIT
	18	10500	18	EACH	LIGHT POLE, MISC. DESIGN A1.0BII.2, AS PER PLAN
	72	10600	72	EACH	LIGHT POLE ANCHOR L-BOLTS
	3054	23000	3054	METER	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE
	486	23400	486	METER	NO. 10 AWG POLE AND BRACKET CABLE
	963	25400	963	METER	CONDUIT, 51 mm, 713.04
	22	25500	22	METER	CONDUIT, 76 mm, 713.04
	18	26250	18	EACH	LUMINAIRE, CONVENTIONAL, TYPE III, 400 WATT HPS, 480 VOLT
	10	27500	10	EACH	LUMINAIRE, UNDERPASS, 150 WATT HPS, 713J3, 240 VOLT
	22	29002	22	METER	TRENCH, 0.6 m DEEP
	25	29920	25	EACH	STRUCTURE JUNCTION BOX
	2	30706	2	EACH	PULL BOX, 713.08, 600 mm
	1	33000	1	EACH	STRUCTURE GROUNDING SYSTEM
LUMP		37000	LUMP		SERVICE TO UNDERPASS LIGHTING
LUMP	625	38000	LUMP		HIGH VOLTAGE TEST
LUMP	625	98200	LUMP		LIGHTING, MISC. CONDUIT FOR ARTIMIS CABLE

REVISION	DATE
0007/CITY OF CINCINNATI RECIRCUITING	12-22-99

① STA. 401+292, 684-5
RAMP B, STRUCTURE MOUNTED

② STA. 401+338.5, 684-5
RAMP B, STRUCTURE MOUNTED

STATIONS FOR UNDERPASS LIGHTS ARE APPROXIMATE. CONTRACTOR SHALL ADJUST LOCATION, IF NECESSARY, TO AVOID GIRDER/BEAM SPLICES OR CROSS FRAMING.

STRUCTURE JUNCTION BOX FOR CIRCUIT 14A1
STA. 401+373, RAMP B

③ STA. 401+385, 684-4
RAMP B, STRUCTURE MOUNTED

PROVIDE ADDITIONAL 51 mm CONDUIT IN BRIDGE BARRIER FROM JUNCTION BOX AT STA. 401+373 TO JUNCTION BOX AT STA. 401+483 FOR CIRCUIT 14A1.

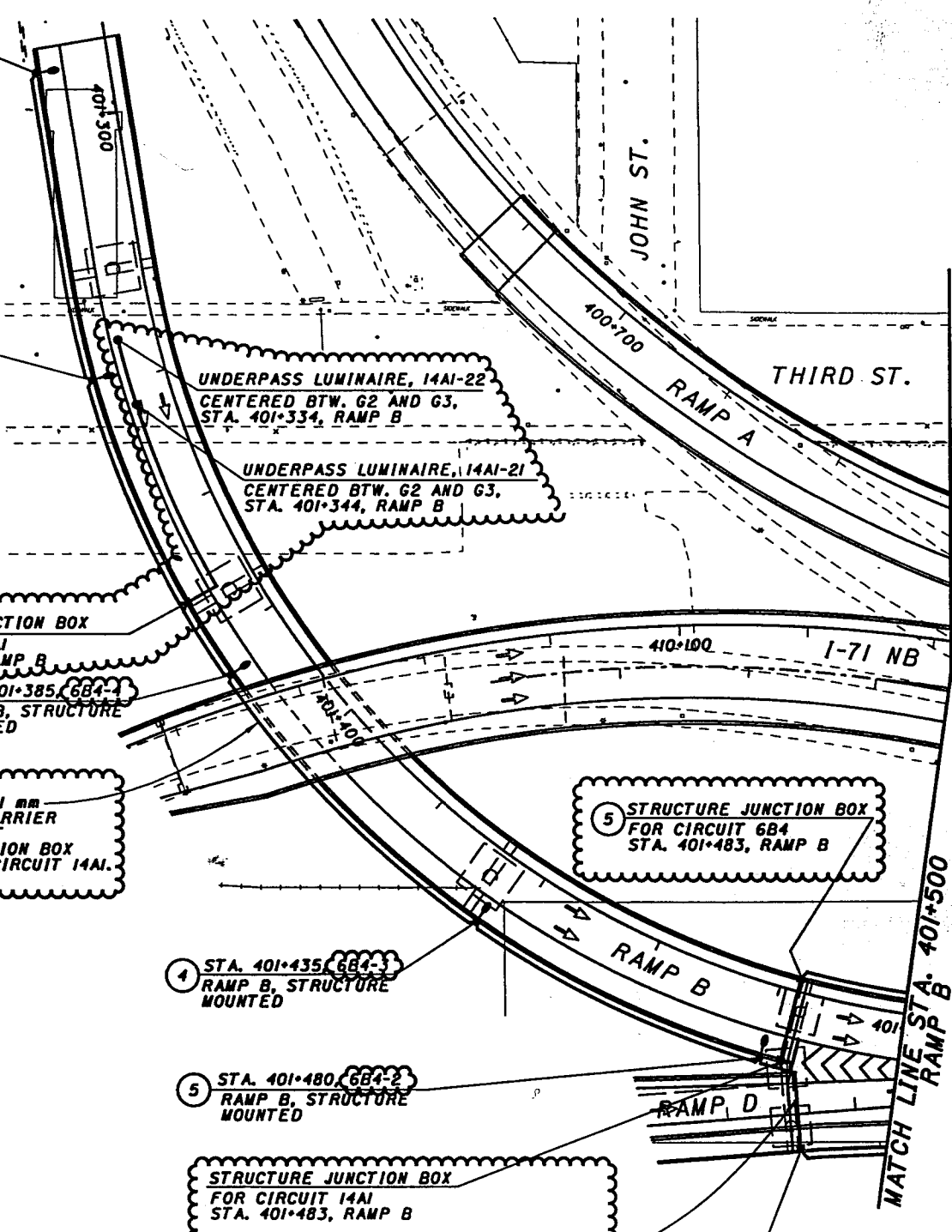
⑤ STRUCTURE JUNCTION BOX FOR CIRCUIT 684
STA. 401+483, RAMP B

④ STA. 401+435, 684-3
RAMP B, STRUCTURE MOUNTED

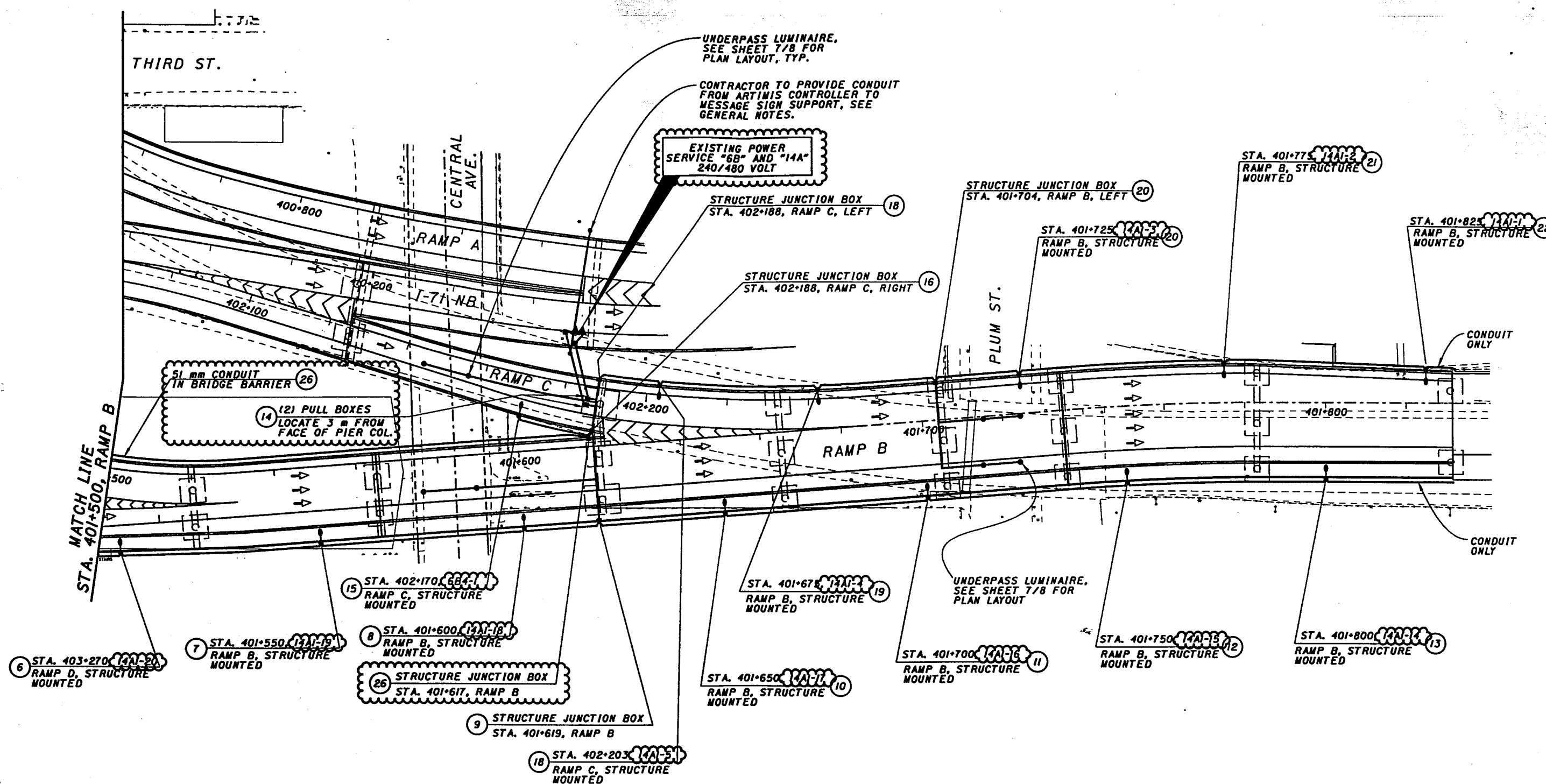
⑤ STA. 401+480, 684-2
RAMP B, STRUCTURE MOUNTED

STRUCTURE JUNCTION BOX FOR CIRCUIT 14A1
STA. 401+483, RAMP B
CONDUIT ALONG TOP OF PIER FOR CIRCUIT 14A1

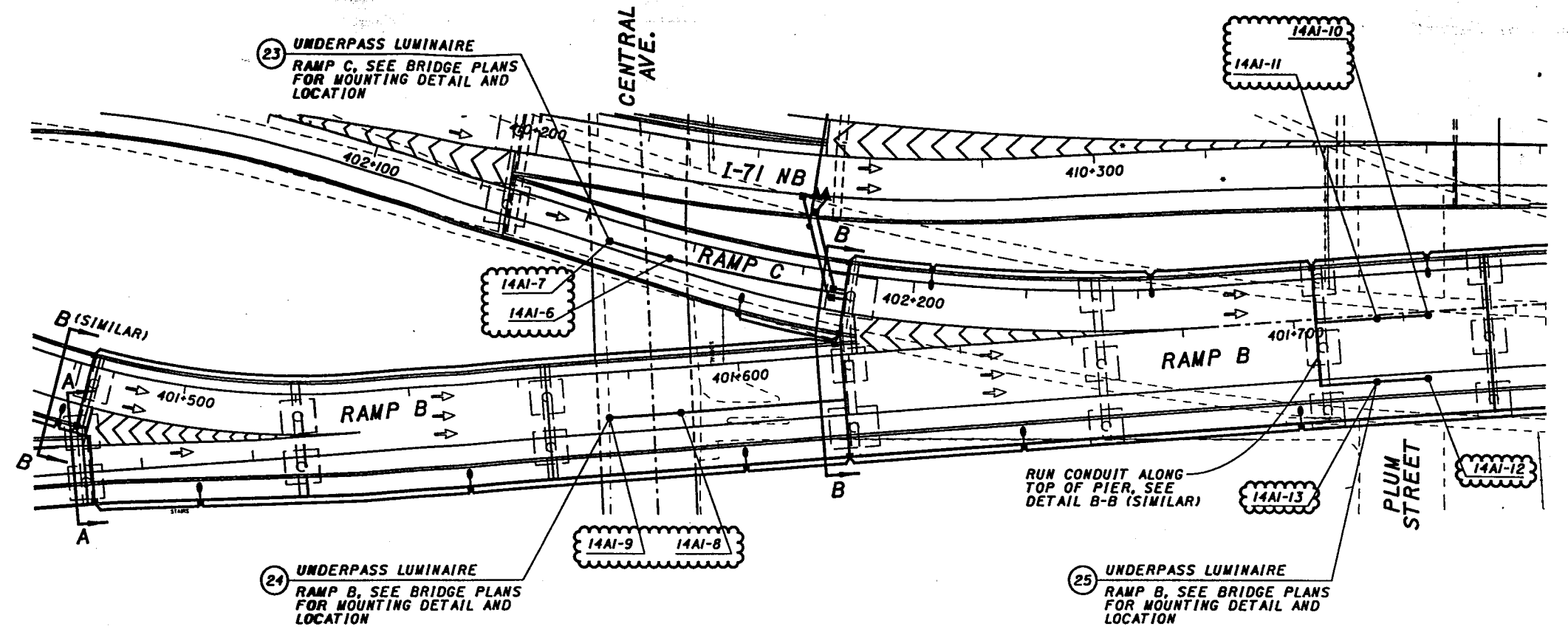
⑥ STRUCTURE JUNCTION BOX
STA. 403+251, RAMP D



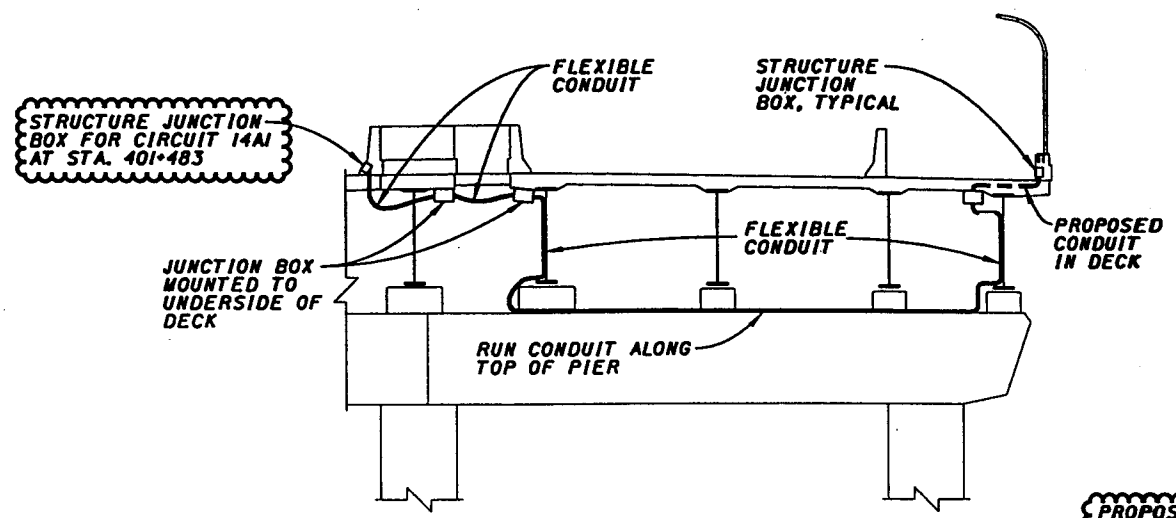
REVISION	DATE
ODOT/CITY OF CINCINNATI RE-CIRCUITING	12-22-09



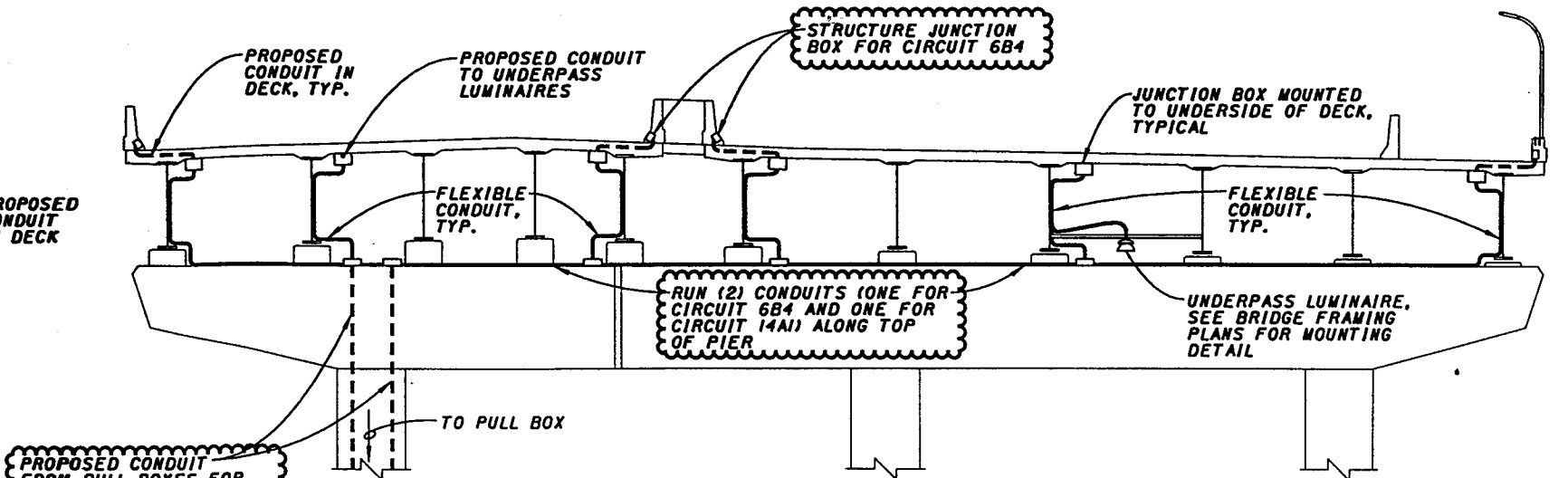
REVISION	DATE
ODOT/CITY OF CINCINNATI RECIRCUITING	12-22-99



UNDERPASS LUMINAIRE PLAN



DETAIL A-A
BRIDGE NO. 4, PIER 4-4

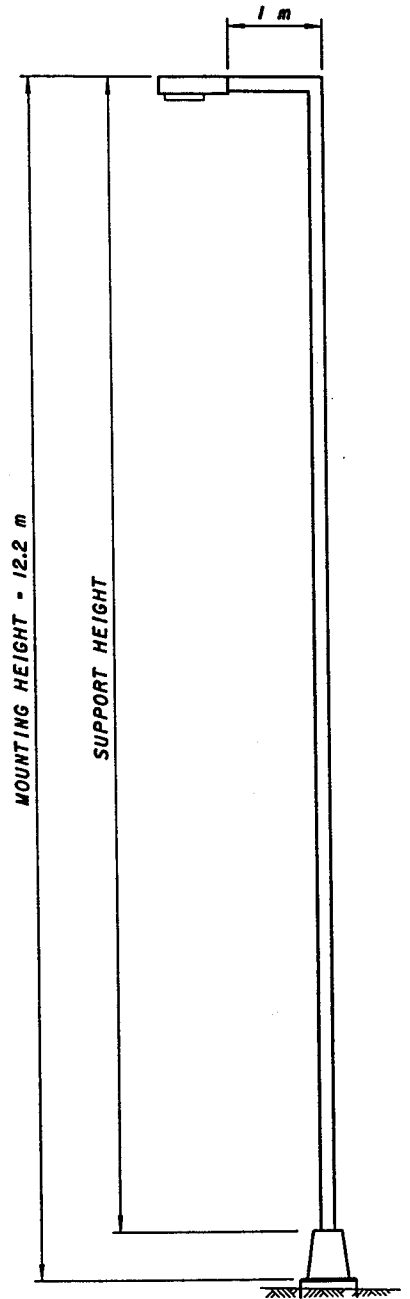
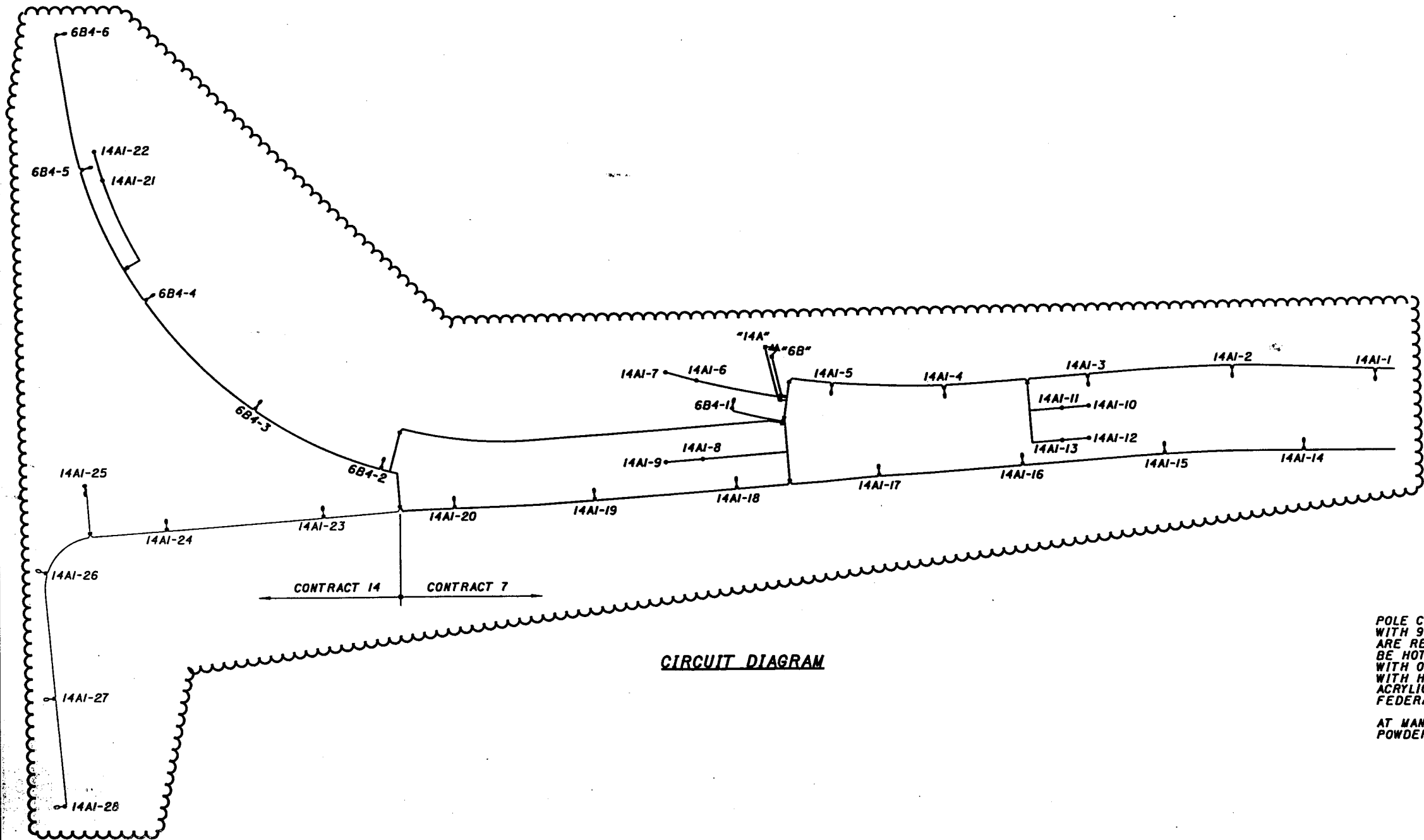


PROPOSED CONDUIT FROM PULL BOXES FOR CIRCUIT 6B4 AND 14AI, CONCEAL IN PIER COLUMN AND PIER CAP

DETAIL B-B
BRIDGE NO. 4, PIER 4-7

REVISION	DATE
0007/CITY OF CINCINNATI RECIRCUITING	12-22-99

POWER SERVICE DATA										
CONTROL CENTER LOCATION	POWER SERVICE	TRANSFORMER (KVA)	CONNECTED LOAD (KVA)	SERVICE ENTRANCE CONDUCTOR SIZE AWG	ENCLOSURE RATING (AMPS)	CIRCUIT NUMBER	CIRCUIT LOAD (AMPS)	CIRCUIT FUSE SIZE (AMPS)	REMARKS	MAINTAINING AGENCY
CONTROL CENTER "6B"	MOUNTED ON BACK OF PIER COLUMN, PIER 6, I-71 NB 240/480 VOLT 3 WIRE, GROUNDED NEUTRAL	45	17.3	4	60	6B2	10.9	30	EXISTING, CONTRACT 6	CITY OF CINCINNATI
						6B3	19.4		EXISTING, CONTRACT 6B	
						6B4	5.6		6B4-1 TO 6B4-6	
CONTROL CENTER "14A"	MOUNTED ON BACK OF PIER COLUMN, PIER 6, I-71 NB 240/480 VOLT 3 WIRE, GROUNDED NEUTRAL	30	15.2	4	100	6B1	4.1	20	EXISTING, CONTRACT 6	CITY OF CINCINNATI
						14A1	23.8	40	14A1-1 TO 14A1-28	
						14A2	5.8	20	EXISTING, CONTRACT 6	



POLE CONSTRUCTION SHALL BE 6" DIAMETER STRAIGHT STEEL WITH 90 DEGREE CROSS ARMS. WHERE TRANSFORMER BASES ARE REQUIRED, THEY SHALL ALSO BE STEEL. FINISH SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ODOT 711.02. PREPARE SURFACE PER SSPC-SPI AND FINISH WITH HIGH BUILD EPOXY (0.08 mm - 0.13 mm DFT) AND ALIPHATIC ACRYLIC POLYURETHANE (0.05 mm - 0.08 mm DFT). COLOR TO BE FEDERAL STANDARD NO. 20372 OF FS595.

AT MANUFACTURER'S OPTION, FINISH COAT MAY BE A BAKED ON POWDER COAT WITH A MINIMUM THICKNESS OF 6 MILS.

REVISION	DATE
ODOT/CITY OF CINCINNATI RE-CIRCUITING	12-22-99

ITEM 625 - LIGHTING, MISC.: RECONNECT EXISTING CITY CIRCUIT C8000M

THIS ITEM SHALL CONSIST OF RELOCATING THE EXISTING CONTROLLER AND PHOTOCELL FOR CITY CIRCUIT C8000M TO A PROPOSED GROUND MOUNTED ENCLOSURE AT THE LOCATION INDICATED IN THE PLANS. GROUND MOUNTED ENCLOSURE SHALL BE IN ACCORDANCE WITH 713.19. FOUNDATION FOR ENCLOSURE SHALL BE IN ACCORDANCE WITH CITY OF CINCINNATI STANDARD DRAWING ES-1-2.

CONTRACTOR SHALL RECONNECT EXISTING CIRCUIT TO PROPOSED CONTROLLER BY PROVIDING AND INSTALLING CONDUITS, MOUNTINGS, FITTINGS, PULL BOXES AND ALL INCIDENTALS NECESSARY TO COMPLETE, READY FOR USE, THE SERVICE TO THE EXISTING LIGHT POLES AT THE LOCATIONS SHOWN IN THE PLAN.

THIS ITEM SHALL INCLUDE PAYMENT FOR ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED. COMPONENT PARTS NOT SPECIFICALLY MENTIONED BUT REQUIRED FOR SATISFACTORY OPERATION OF THIS ITEM SHALL BE FURNISHED AND CONSIDERED PAID FOR AS PART OF THE ITEM.

A LUMP SUM PAYMENT FOR ITEM 625 - LIGHTING, MISC.: RECONNECT EXISTING CITY CIRCUIT C8000M, HAS BEEN INCLUDED IN THE GENERAL SUMMARY.

ELECTRICAL SERVICE FOR ILLUMINATED SIGNS

THE PAY ITEMS IN THE LIGHTING GENERAL SUMMARY INCLUDE THE PULL BOX/JUNCTION BOX ADJACENT TO EACH LIGHTED SIGN AND THE ELECTRICAL SERVICE CONNECTIONS LEADING INTO THE BOX, INCLUDING CABLE SPLICING KITS IN THE PULL BOX. QUANTITIES FOR ELECTRICAL SERVICE FROM THE CONNECTION IN THE PULL BOX TO THE SIGN ARE INCLUDED IN THE TRAFFIC CONTROL GENERAL SUMMARY.

EXPANSION FITTINGS

EXPANSION FITTINGS FOR STEEL CONDUIT SHALL BE OZ TYPE AX-200, CROUSE HINDS TYPE XJ-64, APPLETON TYPE XJ-200-4, OR EQUAL APPROVED BY THE ENGINEER. EACH EXPANSION FITTING SHALL HAVE A COPPER BONDING JUMPER. PAYMENT FOR EXPANSION FITTINGS SHALL BE INCLUDED WITH THE RELATED CONDUIT.

ITEM 625 - LIGHTING, MISC.: BOX GIRDER INTERIOR LIGHTING

THIS ITEM SHALL CONSIST OF PROVIDING COMPLETE ELECTRICAL SERVICE FOR THE BOX GIRDER INTERIOR LIGHTING SYSTEM, BEGINNING AT THE SKVA TRANSFORMER.

THE INSTALLATION WORK SHALL INCLUDE TRANSFORMER, LOAD CENTER, LIGHT FIXTURES, SWITCHES AND RECEPTACLES, CONDUITS, CONDUIT GROUNDING, MOUNTINGS, FITTINGS, JUNCTION BOXES, CABLES AND ALL INCIDENTALS NECESSARY TO COMPLETE, READY FOR USE, THE SERVICE AT THE LOCATIONS SHOWN IN THE PLANS AND ACCORDING TO THE DETAILS. THE CONTRACTOR SHALL USE NO. 10 AWG 5000 VOLT WIRE FOR RUNS LESS THAN 23 METERS AND NO. 8 AWG 5000 VOLT WIRE FOR RUNS GREATER THAN 23 METERS. THE LUMP SUM BID PRICE FOR ITEM 625 - LIGHTING, MISC.: BOX GIRDER INTERIOR LIGHTING SHALL INCLUDE PAYMENT FOR ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED. COMPONENT PARTS NOT SPECIFICALLY MENTIONED BUT REQUIRED FOR SATISFACTORY OPERATION OF THIS ITEM SHALL BE FURNISHED AND CONSIDERED PAID FOR AS PART OF THE ITEM.

ITEM 625 - LUMINAIRE, MISC.: DIRECT, RECESSED

LUMINAIRE IS A LOW LEVEL FLOODLIGHT WITH A DIRECT LENS, SYMMETRICAL DOWNWARD LIGHT DISTRIBUTION, RECESSED WALL MOUNTED. UNIT SHALL UTILIZE A 100 WATT METAL HALIDE LAMP, 277 VOLT -20% STARTING HIGH POWER FACTOR BALLAST. FINISH SHALL BE BAKED ON POWDER COAT LIGHT GRAY. LUMINAIRE SHALL BE KIM LLF-10/100MH277/LG-P OR EQUAL.

A QUANTITY OF 20, ITEM 625 - LUMINAIRE, MISC.: DIRECT, RECESSED, HAS BEEN INCLUDED IN THE GENERAL SUMMARY.

ITEM 625 - LUMINAIRE, MISC.: INDIRECT, SURFACE MOUNTED

LUMINAIRE IS AN ARCHITECTURAL FLOODLIGHT HAVING A DIE CAST ALUMINUM HOUSING AND DOOR FRAME. LENS IS HEAT AND IMPACT RESISTANT MINIMUM 3/16" TEMPERED GLASS. DOOR IS SEALED BY A ONE-PIECE MEMORY RETENTIVE SILICONE GASKET. ALL FITTINGS ARE STAINLESS STEEL. KNUCKLE IS HIGH STRENGTH DIE CAST ALUMINUM AND UL LISTED AS A THROUGH WIRING SPLICE COMPARTMENT. KNUCKLE HAS AIMING TEETH IN 5 DEGREE INCREMENTS AND IS FULLY GASKETED. ASSEMBLY IS UL LISTED FOR WET LOCATIONS. OPTICAL ASSEMBLY SHALL BE DESIGNED FOR A 150 WATT METAL HALIDE LAMP PRODUCING A HORIZONTAL FLOOD OPTICAL PATTERN. FINISH TO BE NATURAL ALUMINUM ELECTROSTATICALLY APPLIED, THERMALLY CURED, TEXTURED POLYESTER POWDER FINISH.

LUMINAIRE SHALL HAVE WALL CANOPY MOUNTING TO SURFACE MOUNT CAST OUTLET BOX. AN ENLARGED CANOPY COVER SHALL BE PROVIDED TO COVER SURFACE MOUNTED BOX. BOX SHALL BE CAPABLE OF ACCEPTING TWO 3/4" CONDUIT ENTRIES IN ITS BACK. LUMINAIRE MOUNTING PLATE SHALL BE MECHANICALLY FASTENED TO THE CONCRETE STRUCTURE BY FOUR BOLTS INDEPENDENT OF THE OUTLET BOX FOR SECURE AND RIGID MOUNT.

LUMINAIRE SHALL BE GARDCO DF7-W-HFL-150MH-277-NP-F-MODIFIED CANOPY.

A QUANTITY OF 26, ITEM 625 - LUMINAIRE, MISC.: INDIRECT, SURFACE MOUNTED, HAS BEEN INCLUDED IN THE GENERAL SUMMARY.

ITEM 625 - LIGHTING, MISC.: SERVICE FOR ONE LITTLE PLACE LANE

THIS ITEM SHALL CONSIST OF PROVIDING COMPLETE ELECTRICAL SERVICE FOR ONE LITTLE PLACE LANE STARTING WITH THE CONNECTION TO THE PROPOSED 277 VOLT SERVICE AT POWER SERVICE "5B". LUMINAIRES FOR ONE LITTLE PLACE LANE ARE NOT INCLUDED FOR PAYMENT IN THIS ITEM.

THE INSTALLATION WORK SHALL INCLUDE PULL BOXES AT STA. 434+106 AND 434+180, TRENCHES, CONDUITS, CONDUIT GROUNDING, MOUNTINGS, FITTINGS, JUNCTION BOXES, CABLES AND ALL INCIDENTALS NECESSARY TO COMPLETE, READY FOR USE, THE SERVICE AT THE LOCATIONS SHOWN IN THE PLANS AND ACCORDING TO THE DETAILS. THE CONTRACTOR SHALL USE NO. 10 AWG 5000 VOLT WIRE FOR RUNS LESS THAN 23 METERS AND NO. 8 AWG 5000 VOLT WIRE FOR RUNS GREATER THAN 23 METERS. THE LUMP SUM BID PRICE FOR ITEM 625 - LIGHTING, MISC.: SERVICE FOR ONE LITTLE PLACE LANE SHALL INCLUDE PAYMENT FOR ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED. COMPONENT PARTS NOT SPECIFICALLY MENTIONED BUT REQUIRED FOR SATISFACTORY OPERATION OF THIS ITEM SHALL BE FURNISHED AND CONSIDERED PAID FOR AS PART OF THE ITEM.

ITEM 625 - LIGHT POLE, MISC.: VICTORIAN, AS PER PLAN

POLE SHALL SPUN PRESTRESSED CONCRETE, VICTORIAN STEP BASE WITH BASE PLATE, VBS-4.7, WITH 4.7 METER MOUNTING HEIGHT, AS MANUFACTURED BY AMERON. FINISH TO BE BUFF NATURAL 313 WITH "AMERSHIELD" GRAFFITI-RESISTANT COATING.

ITEM 625 - LUMINAIRE, MISC.: VICTORIAN, ACORN STYLE

VICTORIAN TYPE ACORN STYLE LUMINAIRE MODEL NO. 1901-21 AS MANUFACTURED BY AMERON, OR EQUAL AS PREAPPROVED BY THE ENGINEER AND THE CITY OF CINCINNATI. LUMINAIRE SHALL HAVE ALABASTER RIPPLE-UV STABILIZED POLYCARBONATE GLOBE, TYPE II IES DISTRIBUTION FROM AN INTERNAL BOROSILICATE GLASS REFRACTOR, BAKED ON BLACK FINISH, 175 WATT MH LAMP, ACTIVATED CHARCOAL-FILTERED AIR BREATHER.

METAL HALIDE LAMPS SHALL BE OSRAM "METALARC", GENERAL ELECTRIC "MULTI-VAPOR," PHILIPS OR VENTURE.

UNDERPASS LUMINAIRES

UNDERPASS LUMINAIRES SHALL BE HOLLOPHANE "BANTAM PRISMATITE" OR EQUAL APPROVED BY THE ENGINEER, AND SHALL BE FURNISHED WITH AN INTEGRAL FUSE HOLDER AND 5-AMPERE FUSE. THE INTEGRAL HIGH PRESSURE SODIUM BALLAST SHALL BE OF A REGULATOR TYPE RATED FOR 480 VOLTS, 150 WATTS.

ITEM 625 - SERVICE TO UNDERPASS LIGHTING

THIS ITEM SHALL CONSIST OF PROVIDING COMPLETE ELECTRICAL SERVICE, EXCEPT FOR LUMINAIRES AND STRUCTURE GROUNDING FOR THE UNDERPASS LIGHTING SYSTEM FOR BRIDGES 17, 18, 19 AND 20.

THE INSTALLATION WORK SHALL INCLUDE CONDUITS, CONDUIT GROUNDING, MOUNTINGS, FITTINGS, JUNCTION BOXES, CABLES AND ALL INCIDENTALS NECESSARY TO COMPLETE, READY FOR USE, THE SERVICE AT THE LOCATIONS SHOWN IN THE PLANS AND ACCORDING TO THE DETAILS. THE CONTRACTOR SHALL USE NO. 10 AWG 5000 VOLT WIRE FOR RUNS LESS THAN 23 METERS AND NO. 8 AWG 5000 VOLT WIRE FOR RUNS GREATER THAN 23 METERS. THE LUMP SUM BID PRICE FOR ITEM 625 - SERVICE TO UNDERPASS LIGHTING, SHALL INCLUDE PAYMENT FOR ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED. COMPONENT PARTS NOT SPECIFICALLY MENTIONED BUT REQUIRED FOR SATISFACTORY OPERATION OF THIS ITEM SHALL BE FURNISHED AND CONSIDERED PAID FOR AS PART OF THE ITEM.

PADLOCKS AND KEYS

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, MASTER NO. 48KA OR WILSON BOHANNAN 660A, OR EQUAL, AS APPROVED BY THE ENGINEER, AND SHALL BE KEYED IN ACCORDANCE WITH SPECIFICATION 631.08, PARAGRAPH 3. PAYMENT SHALL BE INCLUDED IN THE BID ITEM(S) BEING LOCKED.

HIGH VOLTAGE TEST

THIS TEST SHALL BE CONDUCTED ACCORDING TO THE CONSTRUCTION AND MATERIAL SPECIFICATIONS. A LUMP SUM PAYMENT HAS BEEN INCLUDED IN THE GENERAL SUMMARY.

POWER SERVICE, AS PER PLAN

POWER SERVICE EQUIPMENT SHALL BE INSTALLED AS SPECIFIED IN THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS AND ON STANDARD CONSTRUCTION DRAWING HL-4010W.

SERVICE SHALL BE 240/480 VOLT, 3-WIRE, GROUND NEUTRAL, CONTROL CENTERS SHALL BE SINGLE ENCLOSURE TYPE SC XX WITH DISTRIBUTION PANEL FOR TERMINATING MULTIPLE CIRCUIT CONDUCTORS. EACH ENCLOSURE SHALL BE CONNECTED TO ITS ASSOCIATED PULL BOX WITH 76 mm CONDUIT. A PHOTO ELECTRIC CELL SHALL BE PROVIDED FOR EACH CONTROL CENTER. MOUNT PHOTOCELL ON TOP OF NEARBY LIGHT POLE WHICH IS LOCATED IN OPEN AIR WITH NO SHADOWING OR STRAY LIGHT AIMED AT IT. RATINGS OF CONTROLLERS SHALL BE IN ACCORDANCE WITH POWER SERVICE DATA TABLE. PROVIDE STEP-UP TRANSFORMER, SIZE AS INDICATED IN POWER SERVICE DATA TABLE TO CONVERT 208 VOLT PRIMARY VOLTAGE TO THE INDICATED SECONDARY VOLTAGE. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING SERVICE FROM NEAREST C.G.&E. SOURCE.

UPON COMPLETION OF THE PROJECT, THE ENERGY ACCOUNT SHALL BE PAID CURRENT AND THE ACCOUNT TRANSFERRED TO THE MAINTAINING AGENCY SPECIFIED IN THE CONTROL CENTER SCHEDULE. IN ADDITION TO THE REQUIREMENTS OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF ALL CHARGES MADE BY THE POWER COMPANY FOR THE ESTABLISHMENT OF ELECTRICAL SERVICE AT EACH POINT SPECIFIED IN THE PLANS.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

CINCINNATI GAS & ELECTRIC COMPANY
FOURTH AND MAIN STREETS, P.O. BOX 960
CINCINNATI, OHIO 45201
(513) 287-1366

PAYMENT SHALL BE MADE FOR "ITEM 625 - POWER SERVICE, AS PER PLAN", INSTALLED AS DESCRIBED ABOVE AND SHALL INCLUDE ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THE JOB IN A SATISFACTORY WORKMAN-LIKE MANNER.

LUMINAIRES

IN ADDITION TO THE REQUIREMENTS OF THE DEPARTMENT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LUMINAIRES SHALL BE AS FOLLOWS:

LOW PROFILE, CUT-OFF, FLAT GLASS, IES DISTRIBUTION TYPE III, AS MANUFACTURED BY AMERICAN ELECTRIC, MODEL NO. 153-06643-AJ, TEST #AE38191, OR EQUAL AS APPROVED BY THE ENGINEER. THE INTEGRAL HIGH PRESSURE SODIUM BALLAST SHALL BE OF A REGULATOR TYPE RATED FOR 480 VOLTS, 400 WATTS. HOUSING FINISH SHALL BE A BAKED ON POWDER COAT PROCESS WITH A MINIMUM THICKNESS OF 6 MILS, CUSTOM COLOR AS DIRECTED BY THE ENGINEER.

713.14 LAMPS

HIGH PRESSURE SODIUM LAMPS SHALL BE GENERAL ELECTRIC "LUCALOX", PHILIPS "CERAMALUX", OSRAM "LUMALUX", OR EQUAL APPROVED BY THE ENGINEER.

REVISION	DATE
ODOT/CITY OF CINCINNATI RECIRCUITING	12-22-98

RECEIVED
JUN 30 2008



Consultant
KZF

Consultant

Crosset Lot
Nelson Stark
Mike Ryan
OFF. 489-0566
HMB (513) 444-1726

Issues

Date	Description

Revisions

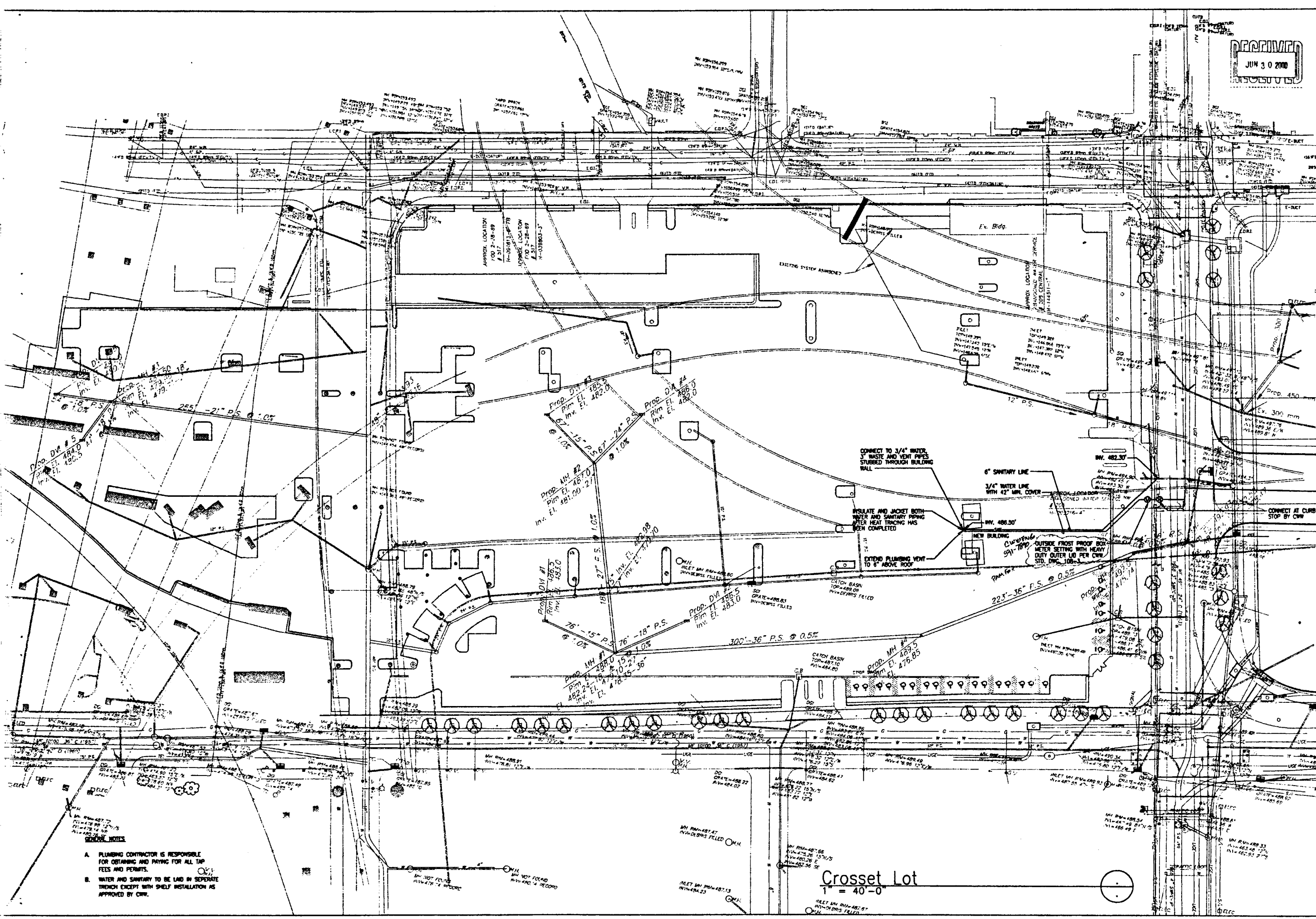
No.	Date	Item

Sheet Title
BUILDING PLUMBING LAYOUT

Scale AS NOTED
Project No. 4598.00

Drawn by BYC
Sheet No. P101

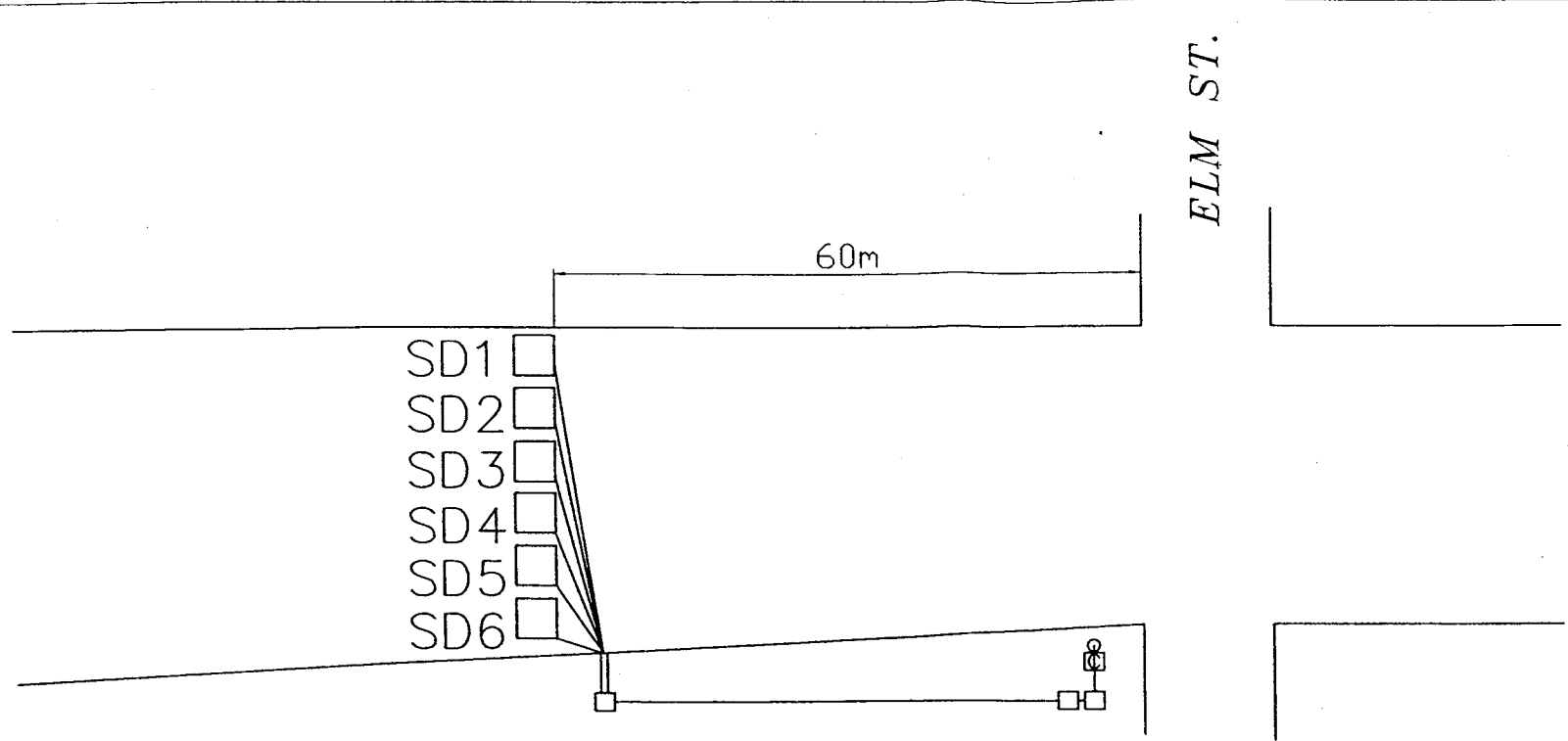
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Date 5/4/00



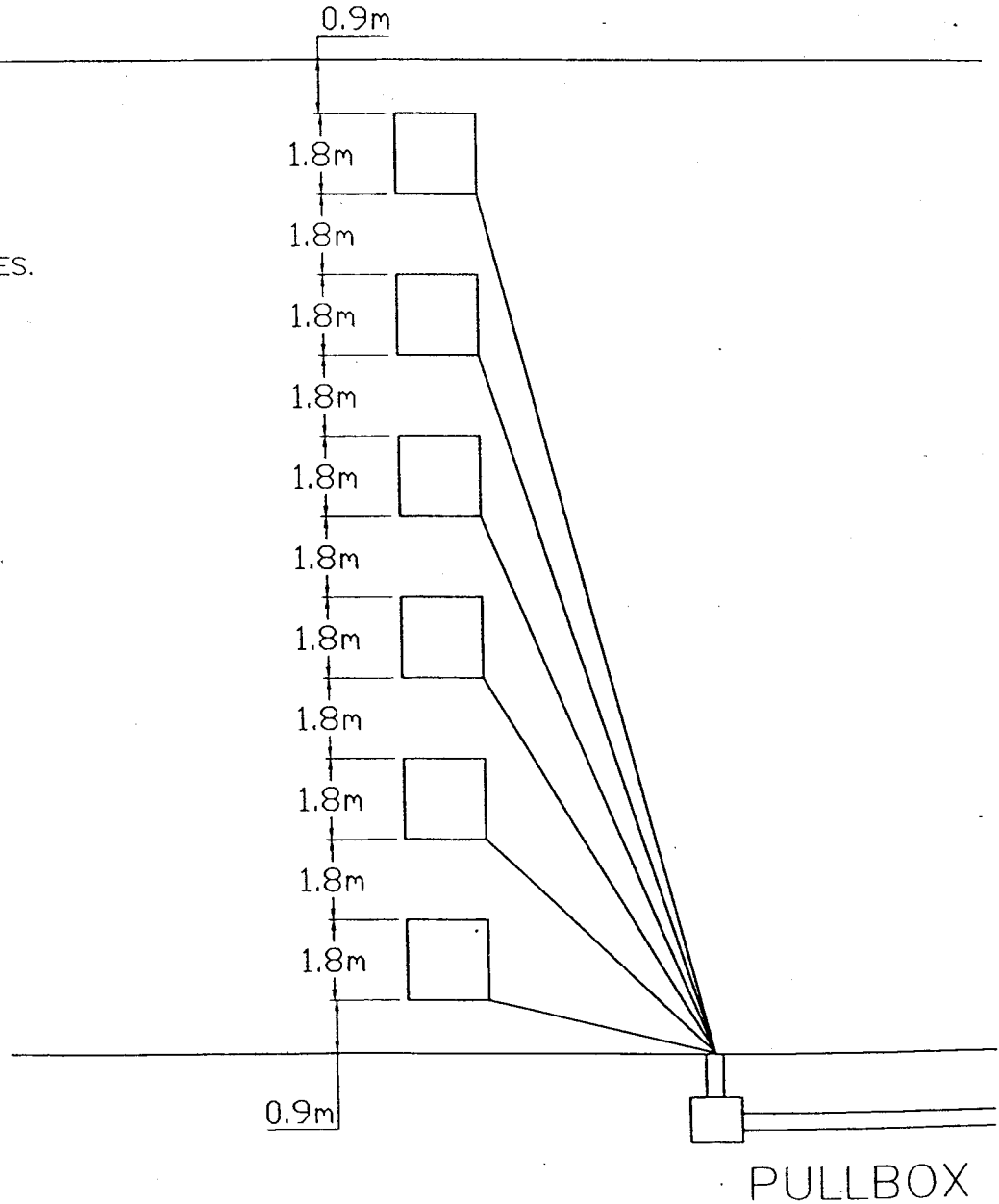
- GENERAL NOTES**
- PLUMBING CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL TAP FEES AND PERMITS.
 - WATER AND SANITARY TO BE LAID IN SEPARATE TRENCH EXCEPT WITH SHELVE INSTALLATION AS APPROVED BY C.W.

Crosset Lot
1" = 40'-0"

CONTRACT 7



TYPICAL LOOP PLACEMENT



NOTES:

1. THE LOCATION WILL HAVE A DETECTOR FOR EACH LANE, EACH 1.8m X 1.8m WITH SIX (6) TURNS OF LOOP WIRE. THE LOOPS WILL BE CENTERED IN THE LANES.
3. LOOP DETECTORS SHALL BE INSTALLED BEFORE THE FINAL COURSE OF MICRO-SILICA OVERLAY IS APPLIED.
4. ENDS OF LOOP DETECTOR WIRE SHALL BE BROUGHT INTO THE ADJACENT PULLBOX. EACH SET OF LOOP WIRES SHALL BE PLACED IN A WATERTIGHT SPLICE TO THE LEAD-IN CABLE.
5. LEAD-IN CABLE WILL BE COILED IN THE NEARBY PULLBOX (AS SHOWN ABOVE) UNTIL THE ELM STREET INTERSECTION CONSTRUCTION IS COMPLETED. CABLE WILL THEN BE PULLED (VIA THE 76mm CONDUIT) TO THAT CONTROLLER AND CONNECTED UNDER THAT PROJECT.

ITEM	DESCRIPTION	UNIT	QUANT
1321	TRENCH, 610mm DEEP	M	60
1321	CONDUIT, 76mm, PVC, CONC. ENCASED	M	60
1321	PULLBOX, 610mm x 610mm	EACH	1
1323	LOOP DETECTOR WIRE #14 AWG, THWN	M	390
1323	LOOP DETECTOR LEAD-IN CABLE	M	100
1328	LOOP DETECTOR PAVEMENT CUTTING	M	105