

CITY OF ALBUQUERQUE
NEW MEXICO



RECONSTRUCTION & REHABILITATION
OF THE LEAD AVENUE BRIDGE

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I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

Carlos G. Padilla 3/24/94
CARLOS G. PADILLA, P.E. NO. 11040 DATE



APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
Carlos G. Padilla
DATE 2-16-95

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REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
APPROVAL OF REVISIONS							

PLANS PREPARED UNDER DIRECTION OF:
Carlos G. Padilla
4/6/92
DATE: 4/6/92

AVID ENGINEERING, INC.
Civil • Structural • Transportation
6100 Seagull St. NE - Suite 102
Albuquerque, NM 87109 - (505) 861-5357

APPROVED FOR CONSTRUCTION
Ricardo Lopez
CITY ENGINEER 3/93

PROJECT NO. 4018.90
SHEET 1 OF 47

GENERAL NOTES

1. ALL WORK TO BE PERFORMED UNDER CONTRACT SHALL BE DONE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION, AS MODIFIED BY THE CONTRACT SPECIAL PROVISIONS AND SUPPLEMENTAL TECHNICAL SPECIFICATIONS EXCEPT THAT CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE CONSTRUCTION/REHABILITATION OF THE BRIDGE SHALL IN PART BE GOVERNED BY THE NEW MEXICO STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1984 EDITION, AS DETAILED BELOW. IN CASE A CONFLICT OCCURS BETWEEN SPECIFICATIONS, THE MORE STRINGENT SPECIFICATIONS SHALL APPLY. BRIDGE WORK ASSOCIATED WITH THE COMPLETION OF THE ITEMS LISTED BELOW, SHALL BE PERFORMED IN ACCORDANCE WITH THE CORRESPONDING SECTIONS OF THE NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1984 EDITION, AND THE SUPPLEMENTAL TECHNICAL SPECIFICATIONS.

ITEM NO.	GOVERNING NMSHTD. STANDARD SPECIFICATIONS/SUPPLEMENTAL TECHNICAL SPECIFICATIONS
202001	SECTION 202 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS
504010,504015 & 504019 (INCIDENTAL TO CONCRETE)	SECTION 504.01 THRU 504.03 - STEEL REINFORCEMENT
507005	SECTION 507 - STEEL STRUCTURES
509050,509078, 509109,509111 & 509215	SECTION 503.038 & 503.039 - PORTLAND CEMENT CONCRETE SECTIONS 509.01 & 509.03 THRU 509.05 - CONCRETE STRUCTURES S.T.S. - PORTLAND CEMENT CONCRETE S.T.S. - CONCRETE STRUCTURES
509904	S.T.S. - SPECIAL SURFACE FINISH ON EXISTING CONCRETE
509906	S.T.S. - PIER AND ABUTMENT BEARING MODIFICATIONS
515015	S.T.S. - ELASTOMERIC EXPANSION JOINT SEALS
516530	S.T.S. - PENETRATING WATER REPELLANT TREATMENT
516545	S.T.S. - PIER AND ABUTMENT REPAIR S.T.S. - SPECIAL SURFACE FINISH ON EXISTING CONCRETE
516548	S.T.S. - EPOXY INJECTION
607050	SECTION 607 - FENCE
709035	SECTION 709 - RIGID ELECTRICAL CONDUIT
710020	SECTION 710 - PULL BOXES
768135	S.T.S. - RETAINED EARTH WALL S.T.S. - REINFORCED EARTH WALL S.T.S. - HILFKEI RETAINING WALLS
INCIDENTAL	SECTIONS 506.01 & 506.033 - PRESTRESSED CONCRETE BRIDGE MEMBERS SECTION 514 - ELASTOMERIC BEARING PADS S.T.S - ELASTOMERIC BEARING PADS SECTION 615 - PAINT S.T.S. - PROTECTIVE COATING OF NEW STEEL BRIDGE RAILING AND MISCELLANEOUS STRUCTURAL STEEL TYPE 2.

NEW MEXICO STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS INCORPORATED HEREIN SHALL BE INTERPRETED USING THE FOLLOWING LIST. REFERENCES LISTED TO THE RIGHT ARE TO REPLACE THOSE ON THE LEFT WHEREVER THOSE ON THE LEFT APPEAR IN THE TEXT.

- | REFERENCE | REPLACE WITH |
|---|-------------------------|
| NEW MEXICO STATE HIGHWAY DEPARTMENT PROJECT MANAGER | = CITY OF ALBUQUERQUE |
| CHIEF HIGHWAY ADMINISTRATOR | = ENGINEER |
| DEPARTMENT | = PUBLIC WORKS DIRECTOR |
| MATERIALS LABORATORY BUREAU | = CITY |
| BRIDGE ENGINEER | = CITY MATERIALS LAB |
| STATE | = ENGINEER |
| | = CITY |
2. ALL PERMANENT AND CONSTRUCTION EASEMENTS ON PRIVATE PROPERTY WILL BE OBTAINED BY THE CITY OF ALBUQUERQUE PRIOR TO THE BEGINNING OF CONSTRUCTION.
3. CONTRACTOR STAGING AREAS OTHER THAN THE LIMITED AREAS OF THE CONSTRUCTION EASEMENTS WILL HAVE TO BE SECURED BY THE CONTRACTOR AT HIS OWN EXPENSE.
4. A SURVEY OF THE PROJECT SITE TO INCLUDE PHOTOGRAPHS OR VIDEO SHALL BE MADE BY THE CONTRACTOR AND THE ENGINEER PRIOR TO COMMENCING WORK. ANY PAVEMENT, CURB AND GUTTER, SIDEWALK, LANDSCAPING, UTILITIES, OR OTHER ITEMS IDENTIFIED BY THE ENGINEER THAT ARE DAMAGED OR DESTROYED DURING THE COURSE OF THE WORK SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE, SUCH REPAIR OR REPLACEMENT WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
5. PRIOR TO PERFORMING ANY EXCAVATION OR DEMOLITION OPERATIONS, THE CONTRACTOR SHALL CONTACT THE FOLLOWING:
260-1990 - ONE CALL
291-6620 - CITY OF ALBUQUERQUE TRAFFIC SIGNAL OPERATIONS - KEVIN BRODERICK
888-8701 - US WEST COMMUNICATIONS
6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL AFFECTED UNDERGROUND OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
7. ALL GAS, ELECTRIC, TELEPHONE LINES, CABLE, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE RELOCATED BY THE RESPONSIBLE UTILITY COMPANY. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. THE CONTRACTORS COORDINATION EFFORTS SHALL BE INCIDENTAL TO COMPLETION OF THE WORK AND NO ADJUSTMENTS TO PAYMENT OR CONTRACT TIME WILL BE ALLOWED.
8. THE CONTRACTOR SHALL EXERCISE CARE TO AVOID DISTURBING EXISTING UNDERGROUND UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION.

GENERAL NOTES CONTINUED

9. ALL ABANDONED UTILITY LINES WHICH ARE EXPOSED AS A RESULT OF CONSTRUCTION SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.
10. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL DEMOLITION DEBRIS IN AN ENVIRONMENTALLY ACCEPTABLE MANNER. ALL SALVAGED MATERIALS, EXCEPT AS OTHERWISE SPECIFIED IN THESE PLANS, SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING BUT NOT LIMITED TO HAZARDOUS WASTE, AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS. SUCH DISPOSAL SHALL BE AT THE CONTRACTOR'S EXPENSE.
11. ALL EXCAVATED MATERIAL THAT IS NOT REQUIRED TO BE REUSED SHALL BE REMOVED FROM THE PROJECT AREA WITHIN 14 DAYS OF EXCAVATION. SPOIL PILES WILL BE ALLOWED ONLY AS DIRECTED BY THE ENGINEER.
12. PRINTS OF PLANS SHOWING EXISTING CONSTRUCTION ARE AVAILABLE AT THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT SHOULD THE CONTRACTOR WISH TO OBTAIN THEM.
13. CONSTRUCTION STAKING AND CONSTRUCTION SURVEYING SHALL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, EXCEPT THAT THE CONTRACTOR SHALL FURNISH AND SET CONSTRUCTION STAKES AND ESTABLISH LINES AND GRADES FOR THE WORK DESCRIBED IN THE DRAWINGS. THIS WORK SHALL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "CONSTRUCTION SURVEYING", AND SHALL BE FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PERFORM THE WORK.
14. ALL NEW STREET PAVING, DRIVEWAYS, SIDEWALKS, AND CURB AND GUTTERS, ABUTTING EXISTING AREAS SHALL MATCH THE ELEVATIONS OF THOSE AREAS.
15. ALL EXISTING AFFECTED MANHOLE COVERS AND VALVE BOXES WITHIN THE CONSTRUCTION LIMITS SHALL BE ADJUSTED TO THE NEW FINISHED GRADE AS PART OF THE PAVING OPERATIONS.
16. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES AT ALL TIMES DURING CONSTRUCTION.
17. THE CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. THE CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE ENGINEER. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, THE CONTRACTOR SHALL AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
18. ONE WEEK PRIOR TO PERFORMING ANY WORK WITHIN THE AT & SF RAILROAD RIGHT OF WAY, THE CONTRACTOR SHALL CONTACT MR. DAN DUFF AT 857-5046.
19. WHEN WORKING WITHIN THE AT & SF RAILROAD RIGHT OF WAY THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS SET FORTH IN SECTIONS 10 AND 11 OF THE CONTRACT SPECIAL PROVISIONS.
20. THE CONTRACTOR SHALL ERECT AND MAINTAIN SUITABLE TEMPORARY PROTECTIVE SCREENING BETWEEN THE WORK AREA AND THE ROADWAY, SIDEWALKS OR RAILROAD TRACKS BELOW TO PREVENT DAMAGE TO TRAIN, VEHICLE, OR PEDESTRIAN TRAFFIC. THE SCREENING SHALL NOT ENCR OACH ON EXISTING VERTICAL CLEARANCES, AND SHALL EXTEND AT LEAST 6.0 FEET BEYOND THE EDGE OF DECK OVERHANG IN ADDITION TO SPANNING THE INTERIOR PORTIONS OF THE SUPERSTRUCTURE. WORKING DRAWINGS OF THE PROPOSED METHOD, AS WELL AS DESIGN CALCULATIONS OR MATERIAL SPECIFICATIONS AS APPROPRIATE SHALL BE SUBMITTED TO THE ENGINEER (AND THE AT & SF RAILROAD COMPANY THROUGH THE ENGINEER) FOR REVIEW AT LEAST 3 WEEKS PRIOR TO COMMENCING BRIDGE DEMOLITION ACTIVITIES. PROPER PERFORMANCE OF THE SCREENING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "REMOVAL OF STRUCTURES AND OBSTRUCTIONS".
21. THE CONTRACTOR SHALL COORDINATE WITH THE WATER SYSTEMS DIVISION (505) 857-8200, THREE (3) WORKING DAYS PRIOR TO INITIATING ANY WORK AFFECTING EXISTING PUBLIC WATER UTILITIES. REFER TO SECTION 18 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
22. THE REMOVAL AND REPLACEMENT OF THE 20" STEEL WATERLINE SHALL BE STAGED SUCH THAT THE WATERLINE CAN BE REACTIVATED WITHIN 210 CALENDAR DAYS OF ITS DEACTIVATION.
23. THE CONTRACTOR SHALL EXERCISE DUE CARE DURING REMOVAL OPERATIONS TO PREVENT DAMAGE TO PORTIONS OF THE STRUCTURE THAT ARE TO REMAIN IN PLACE. STRUCTURAL MEMBERS BEING RETAINED THAT ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE SATISFACTORILY REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE CITY.
24. THE TOP SURFACE OF ALL EXISTING BEAMS WHICH ARE TO BE RE-USED IN THE NEW BRIDGE ARE TO BE THOROUGHLY CLEANED OF LOOSE CONCRETE AND DEBRIS RESULTING FROM REMOVAL OF THE CONCRETE BRIDGE DECK. BEAM SHEAR REINFORCING EXTENDING FROM THE TOP OF BEAMS SHALL BE CLEANED OF RUST AND DEBRIS AND FIELD PAINTED WITH ONE COAT OF EPOXY MASTIC PRIMER IN ACCORDANCE WITH THE PROVISIONS OF THE SUPPLEMENTAL TECHNICAL SPECIFICATIONS FOR PROTECTIVE COATING OF NEW STEEL BRIDGE RAILING AND MISCELLANEOUS STRUCTURAL STEEL TYPE 2. PRIOR TO ENCASING EXISTING BEAM ENDS IN NEW PIER DIAPHRAGMS, AREAS OF LOOSE CONCRETE SHALL BE REMOVED FROM THE BEAMS AS DIRECTED BY THE ENGINEER. ANY EXPOSED REINFORCING SHALL BE CLEANED OF RUST AND DEBRIS. THE COST OF CLEANING EXISTING BEAMS SHALL BE INCIDENTAL TO CONSTRUCTION AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
25. ALL ELEVATIONS SHOWN IN THE BRIDGE PLANS, SHEETS 4 THRU 37, ARE BASED ON AS-BUILT INFORMATION AND MAY NOT CORRESPOND TO THE DATUM ELEVATION OF A.C.S. BRASS CAP "3-K14." PRIOR TO BEGINNING CONSTRUCTION OF THE NEW BRIDGE SUPERSTRUCTURE THE ELEVATION OF THE EXISTING BEAM SEAT AT PIER NO. 1, BEAMLIN E NO. 6, SPAN NO. 2 SHALL BE FIELD DETERMINED AND CHECKED AGAINST THE ELEVATION SHOWN ON SHEET 31. IF A DISCREPANCY IS FOUND TO EXIST A TEMPORARY BENCH MARK SHALL BE SET BY THE CONTRACTOR WHICH CORRESPONDS TO THE AS-BUILT ELEVATION OF THE BEAM SEAT. THE BRIDGE AND RETAINING WALLS SHALL BE BUILT USING THE TEMPORARY BENCH MARK FOR VERTICAL CONTROL. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF THE SITUATION SO THAT ANY NECESSARY GRADE ADJUSTMENTS AT 2ND STREET AND AT BROADWAY BLVD. CAN BE MADE AND FORWARDED TO THE CONTRACTOR.

SCOPE OF WORK

1. LEAD AVENUE OVERPASS
- A. REMOVE EXISTING BRIDGE DECK, SIDEWALK, CURBS, RAILING, LIGHT STANDARDS, DIAPHRAGMS, CONCRETE PAVEMENT AND 20" STEEL WATER LINE. LEAVE EXISTING RETAINING WALLS IN PLACE.
- B. REMOVE A.A.S.H.T.O. BEAMS AND BEAM BEARINGS FROM EXISTING SPANS 1, 2, 11, 12, 13, AND 14.
- C. CLEAN BEAMS AND REMOVE BEARINGS OF THE A.A.S.H.T.O. BEAMS AT EXISTING SPANS 3, 4, 5, 6, 7, 8, 9, AND 10. SAID BEAMS MAY BE CLEANED IN-PLACE OR REMOVED AND RESET AT THE CONTRACTORS OPTION.
- D. REMOVE EXISTING ABUTMENTS TO BOTTOM OF THE SEATS AND PIERS 1, 2, 10, 11, 12, AND 13 TO THE TOP OF THE PILE CAPS.
- E. REHABILITATE EXISTING PIERS 3, 4, 5, 6, 7, 8, AND 9 WHERE CONCRETE CRACKING, DELAMINATION AND SPALLING IS EVIDENT. BUILD UP BEAM SEATS AND PLACE NEW ELASTOMERIC BEARINGS.
- F. CONSTRUCT NEW EARTH REINFORCED APPROACHES AND ABUTMENT FOOTINGS, SEATS AND BACKWALLS.
- G. INSTALL NEW 20" STEEL WATER LINE (ON BRIDGE) AND NEW 20" D.I.P. WATERLINE (APPROACHES)
- H. PLACE NEW CONCRETE DECK, DIAPHRAGMS, SIDEWALK, BARRIER WALL, AND PAVEMENT. PLACE NEW PEDESTRIAN RAILING AND RELOCATE LIGHT STANDARDS.

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

Carlos G. Padilla 3/29/99
CARLOS G. PADILLA, P.E. NO. 11040 DATE



REMOVAL OF STRUCTURES AND OBSTRUCTIONS

STATION TO STATION	LDC.	EST. QUANT.	DESCRIPTION
LEAD AVENUE			
0+67 TO 1+67	LT. & RT.	490 S.Y.	CONC. PAVEMENT, BASE, & APPROACH SLAB
0+51 TO 1+67	LT. & RT.	224 L.F.	CURB AND GUTTER
0+67 TO 1+67	LT. & RT.	100 S.Y.	CONCRETE SIDEWALK
* 1+67 TO 12+14	LT. & RT.	59680 S.F.	BRIDGE DECK, SIDEWALK, CURBS, RAILING
			DIAPHRAGMS, BEAMS, BEAM BEARINGS, & ABUTS.
12+14 TO 13+30	LT. & RT.	570 S.Y.	CONC. PAVEMENT, CEMENT TREATED BASE
			COURSE, AND APPROACH SLAB
12+14 TO 13+30	LT. & RT.	232 L.F.	CURB AND GUTTER
12+14 TO 13+30	LT. & RT.	120 S.Y.	CONCRETE SIDEWALK
0+35 TO 13+45	LT. & RT.	1310 L.F.	ELECTRICAL CONDUIT
* * -0+10 TO 13+85	LT	1395 L.F.	20" WATERLINE
10+00 TO 13+45	LT.	385 L.F.	4" C.I. WATERLINE

* SEE REMOVAL NOTES SHEETS 6,7 & 8
** SEE REMOVAL NOTES SHEETS 38,39 & 40

26. THE EXISTING OVERHEAD POWER & COMMUNICATION LINES LOCATED NEAR THE EAST AND WEST BOUNDARIES OF THE AT & SF RAILROAD PROPERTY WILL REMAIN IN SERVICE THROUGHOUT THE DURATION OF THE PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR PERFORMING ALL CONSTRUCTION OPERATIONS IN A MANNER WHICH PROVIDES FOR THE SAFETY OF CONSTRUCTION PERSONNEL, AND THE UNINTERRUPTED SERVICE OF THE LINES.
27. ALL EXISTING ADVERTISING SIGNS OWNED BY DONREY OUTDOOR ADVERTISING AND PONEY PANELS SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT. REASONABLE ACCESS SHALL BE PROVIDED TO THE SIGN OWNERS DURING CONSTRUCTION TO ALLOW FOR SIGN MAINTENANCE AND CHANGES IN ADVERTISING.
28. AT THE COMPLETION OF THE PROJECT, ALL TEMPORARY CONSTRUCTION PERMIT AREAS SHALL BE RESTORED TO THE SAME OR BETTER CONDITION THAN THEY WERE FOUND.

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE GENERAL NOTES					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>B. G. Padilla</i>	3/1/93	Water	<i>MDL</i>	6-9-92
Transportation	<i>MDL</i>	6-17-92	Waste Water	<i>MDL</i>	
Hydrology	<i>MDL</i>	4-22-92			
DRAWING NO. 4018.90			MAP NO. K-14		SHEET 2 NO. 47

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Carlos G. Padilla 3/29/94
CARLOS G. PADILLA, P.E. NO. 11040 DATE



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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE SUMMARY OF QUANTITIES					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>[Signature]</i>	3-1-93	Water	<i>[Signature]</i>	6-2-92
Transportation	<i>[Signature]</i>	6-17-92	Waste Water	<i>[Signature]</i>	"
Hydrology	<i>[Signature]</i>	4-22-92			
DRAWING NO. 4018.90		MAP NO. K-14		SHEET 3 NO. 47	

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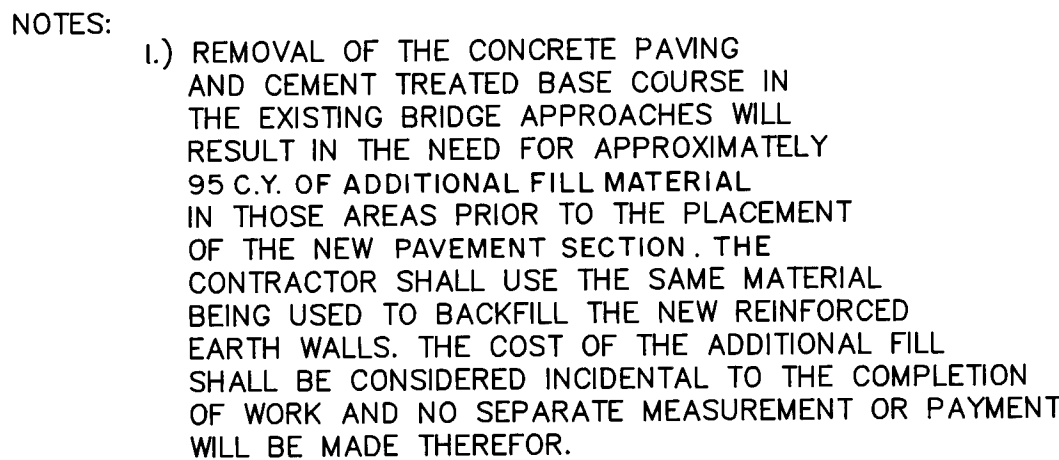
ENGINEER'S SEAL

SURVEY INFORMATION

BENCH MARKS

AS BUILT INFORMATION

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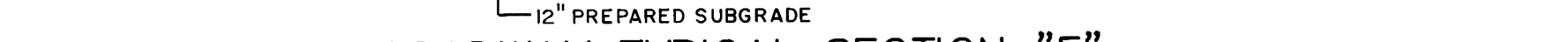






















CARLOS G. PADILLA, F.R.I. NO. 11512

11. BARRIER DETAIL

CITY OF ALBUQUERQUE

LEAD - ALUMINUM BRIDG

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	D
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GROUP

DRAWINGS REQUIRED

GENERAL NOTES AND QUANTITIES	SHEET NO.
STRUCTURE LOCATION SHEET	5
SUPERSTRUCTURE DETAILS	6 THRU 8
CONCRETE WALL BARRIER TRANSITION DETAILS	9 THRU 23
PEDESTRIAN FENCE DETAILS	24 & 24-B1
LIGHTING DETAILS	25
SUBSTRUCTURE DETAILS	26
WATERLINE DETAILS	27 THRU 37
ELASTOMERIC EXPANSION JOINT SEALS FOR BRIDGES GENERAL DATA	38 THRU 41
SERIAL BJS-001-01	BJS-001-01
ELASTOMERIC EXPANSION JOINT SEALS FOR BRIDGES TYPE I INSTALLATION	BJS-002
SERIAL BJS-002	
BARRIER RAILING STD. DWG. 032, SHEETS 1, 2 & 4	DRAWING 032

GENERAL NOTES

- WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE PROVISIONS SET FORTH UNDER GENERAL NOTE NO. 1 SHEET 2.
- A PENETRATING WATER REPELLENT TREATMENT IS TO BE APPLIED TO THE FOLLOWING CONCRETE SURFACES:
 - TOP & EDGE OF DECK SLAB;
 - TOP & VERTICAL SURFACES OF ABUTMENT SEATS;
 - TOP, SIDES & FACE OF ABUTMENT BACKWALLS;
 - TOP & VERTICAL SURFACES OF PIER CAPS; &
 - ALL SURFACES OF BARRIER RAILING.
- CONCRETE FOR STRUCTURAL CAST-IN-PLACE CONCRETE SHALL CONFORM TO CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS AS MODIFIED IN THE SUPPLEMENTAL TECHNICAL SPECIFICATIONS. CHAMFER ALL EXPOSED EDGES OF CONCRETE STRUCTURES 3/4" UNLESS NOTED OTHERWISE ON DETAILS.
- REINFORCING BARS SHALL CONFORM TO AASHTO SPECIFICATION M31 GRADE 60 UNLESS NOTED OTHERWISE ON THE DETAILS. DIMENSIONS REFER TO THE CENTER LINE OF BARS UNLESS NOTED OTHERWISE.
- STRUCTURAL STEEL SHALL BE CARBON STEEL CONFORMING TO AASHTO SPECIFICATION M-270, UNLESS NOTED OTHERWISE ON THE DETAILS. SHOP PLANS MUST BE APPROVED BY THE ENGINEER BEFORE FABRICATION IS STARTED.
- SOLE PLATES SHALL BE STRAIGHTENED AND FINISHED ON ALL SIDES AFTER FABRICATION. THE THICKNESS OF SUCH PLATES SHOWN ON THE DETAILS SHALL BE FINISHED THICKNESS. SEE SHEET 22 FOR ADDITIONAL FINISH REQUIREMENTS
- ANCHOR BOLTS FOR GIRDERS SHALL BE PLACED IN DRILLED HOLES AND GROUTED IN THE EXACT POSITION AS SHOWN ON THE PLANS.
- VERIFICATION OF BEAM CAMBER: AFTER BEAMS ARE PLACED AND BEFORE SCREEDS ARE SET, A PROFILE SHALL BE TAKEN ALONG EACH COMPLETE LINE OF BEAMS. IF ACTUAL CAMBER DIFFERS FROM THAT SHOWN ON THE PLANS SO THAT A DEFICIENT SLAB THICKNESS WOULD RESULT, ADJUSTMENTS MUST BE MADE BY THE ENGINEER.
- BRIDGE SEATS: AFTER COMPLETION OF THE BRIDGE AND APPROACH ROADWAYS, TOP SURFACES OF ALL BRIDGE SEATS SHALL BE THOROUGHLY CLEANED OF ALL DIRT, CONCRETE AND OTHER DEPOSITED MATERIALS.
- CONCRETE DECK PLACEMENT: THE CONTRACTOR SHALL PLACE AND MACHINE FINISH THE CONCRETE DECK SLAB IN ACCORDANCE WITH THE DIAGRAM SHOWN ON SHEET 18
- CORED HOLES IN EXTERIOR BEAMS: AFTER COMPLETION OF SUPERSTRUCTURE, ALL UNUSED CORED HOLES ARE TO BE PACKED WITH GROUT.
- BRIDGE DEDICATION PLATE: THE CONTRACTOR WILL BE REQUIRED TO SALVAGE THE EXISTING MEMORIAL BRIDGE PLATE FROM THE NORTHWEST CORNER OF THE BRIDGE APPROACH AND INSTALL IT IN THE NEW CONCRETE BARRIER RAILING AS DETAILD ON THIS SHEET. COST OF THE PLATE IN PLACE IS INCIDENTAL TO THE COMPLETION OF THE WORK AND NO DIRECT PAYMENT WILL BE MADE THEREFOR.
- SOME EPOXY COATED REBAR ARE DETAILED OVER 40 FEET LONG. THE CONTRACTOR MAY FURNISH SUCH LONGER BARS IN TWO SECTIONS WITH LAP SPLICES. THE LOCATION AND LENGTH OF LAP MUST BE SUBMITTED IN WRITING TWO WEEKS PRIOR TO FABRICATION FOR APPROVAL BY THE ENGINEER. ADDITIONAL BAR LENGTHS REQUIRED BY THE CONTRACTORS PROPOSAL WILL BE AT NO COST TO THE CITY.
- PREFORMED BITUMINOUS JOINT FILLER: ALL PREFORMED BITUMINOUS JOINT FILLER SHALL CONFORM TO AASHTO SPECIFICATION M213. COST OF ALL JOINT IN PLACE IS INCIDENTAL TO THE COMPLETION OF THE WORK AND NO DIRECT PAYMENT WILL BE MADE THEREFOR.
- PAINT ALL STRUCTURAL STEEL ITEMS, SHALL BE PAINTED IN CONFORMANCE WITH THE REQUIREMENTS OF THE SUPPLEMENTAL TECHNICAL SPECIFICATIONS FOR PROTECTIVE COATING OF NEW RAILING AND MISCELLANEOUS STEEL, TYPE 2. IMBEDDED PORTIONS OF THE RODS SHALL NOT BE PAINTED.
- PERMANENT STEEL DECK FORMS MAY BE UTILIZED FOR SLAB CONSTRUCTION ON THIS STRUCTURE PROVIDED THAT BOTH TOP AND BOTTOM MATS OF DECK SLAB REINFORCING BARS ARE EPOXY COATED. REINFORCING BARS IN THE BOTTOM MAT OF STEEL ARE TO BE EPOXY COATED AT THE CONTRACTOR'S EXPENSE. COMPLETE SHOP PLANS, DESIGN CALCULATIONS, AND SPECIFICATIONS FOR THE PROPOSED FORMING SYSTEM ARE TO BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- DECK SLAB SURFACE TEXTURE SHALL CONSIST OF A BROOMED FINISH APPLIED TO THE PLASTIC CONCRETE FOLLOWED BY GROOVING OF THE HARDENED CONCRETE. GROOVING SHALL BE DONE IN ACCORDANCE WITH THE NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1984 EDITION AS MODIFIED BY APPROPRIATE SUPPLEMENTAL TECHNICAL SPECIFICATIONS EXCEPT THAT THE LINSEED OIL AND MINERAL SPIRITS MIXTURE SHALL NOT BE APPLIED TO THE GROOVED SURFACE. GROOVING OF HARDENED CONCRETE SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO DIRECT PAYMENT WILL BE MADE THEREFOR.
- DECK CURING: THE CONCRETE BRIDGE DECK SHALL BE CURED USING A COMBINATION OF THE WATER AND LINSEED OIL EMULSION METHODS DESCRIBED IN SUBSECTION 503.039 OF THE SPECIFICATIONS. THE LINSEED OIL EMULSION SHALL BE APPLIED IN ACCORDANCE WITH SUBSECTION 503.039 (e) IMMEDIATELY AFTER THE SHEEN HAS DISAPPEARED FROM THE CONCRETE SURFACE. FOLLOWING APPLICATION OF THE LINSEED OIL AND AFTER THE DECK HAS HARDENED SUFFICIENTLY TO PERMIT PLACEMENT OF COTTON OR BURLAP MATS WITHOUT MARRING THE SURFACE, THE DECK SLAB SHALL BE WATER CURED IN ACCORDANCE WITH SUBSECTION 503.039 (a) 1.
- SPECIAL SURFACE FINISH FOR CONCRETE SURFACES:

THE EDGE OF THE DECK SLAB, SOFFIT OF THE SLAB CANTILEVER, EXTERIOR FACES OF BEAMS, PIERS (EXCEPT TOPS), PIER DIAPHRAGMS, WALL COPINGS, ABUTMENT SEATS, ABUTMENT BACKWALLS AND BARRIER RAILING SHALL RECEIVE A SPECIAL SURFACE FINISH IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 509.037(E). THE FINISH SHALL BE BY THOROSEAL. COLORS ARE AS FOLLOWS: THE EDGE OF DECK SLAB, SOFFIT OF THE SLAB CANTILEVER, EXTERIOR FACES OF BEAMS, AND ACCENT STRIP OF WALL COPING SHALL BE "OLD CORAL" 13-24D. PIERS (EXCEPT TOPS), PIER DIAPHRAGMS, WALL COPINGS (EXCEPT ACCENT STRIP) ABUTMENT SEATS AND ABUTMENT BACKWALLS SHALL BE "BLUE TURQUOISE" 55-70. BARRIER RAILING SHALL BE "CINNAMON TOAST" 52-18D. A 1' X 1' COLOR SAMPLE PANEL FOR EACH COLOR SHALL BE PREPARED AND APPROVED BY THE ENGINEER PRIOR TO THE CONTRACTOR ORDERING ANY MATERIALS. THESE PANELS SHALL BE USED AS A CONTROL TO MATCH AREAS GIVEN THE SPECIAL SURFACE FINISH. THE COST OF THE SPECIAL SURFACE FINISH IS TO BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE WORK AND NO DIRECT PAYMENT WILL BE MADE THEREFOR.
- THE CONTRACTOR SHALL EXERCISE DUE CARE DURING REMOVAL OPERATIONS TO PREVENT DAMAGE TO PORTIONS OF THE STRUCTURE THAT ARE TO REMAIN IN PLACE. STRUCTURAL MEMBERS BEING RETAINED THAT ARE DAMAGED BY THE CONTRACTORS OPERATIONS SHALL BE SATISFACTORILY REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER AT NO COST TO THE CITY. SEE GENERAL NOTE 24 SHEET 2 FOR BEAM CLEANING REQUIREMENTS.

ESTIMATED QUANTITIES																
ITEM NO.	ITEM	UNIT	SUPER STRUCT.	ABUT. 1	PIER 1	PIER 2	PIER 3	PIER 4	PIER 5	PIER 6	PIER 7	ABUT. 2	APPROACH	TOTAL		
202001	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L. S.												1		
* 504010	REINFORCING BARS GRADE 40	POUND		590									590	1180		
* 504015	REINFORCING BARS GRADE 60	POUND	119010	3870	140	140	140	140	170	140	140	3870	13020	140780		
* 504019	EPOXY COATED REINFORCING BARS GRADE 60	POUND	138780											138780		
507005	STRUCTURAL STEEL FOR CONCRETE BRIDGES AASHTO M183	POUND	41440											41440		
509050	STRUCTURAL CONCRETE	CU. YD.											268	268		
509078	STRUCTURAL CONCRETE - 6" INCL. W.W.M. REINF.	SQ. YD.		30.5								30.5		61		
509109	SUPERSTRUCTURE CONCRETE	CU. YD.	947											947		
509111	SUBSTRUCTURE CONCRETE	CU. YD.		34.7	0.47	0.62	0.58	0.65	1.18	0.53	0.57	34.7		74		
509215	BARRIER RAILING	LIN. FT.	2469											2469		
509904	SPECIAL SURFACE FINISH ON EXISTING CONCRETE	SQ. FT.												100		
509906	PIER AND ABUTMENT BEARING MODIFICATION	L.S.	1											1		
515015	ELASTOMERIC EXPANSION JOINT SEAL	LIN. FT.	118											118		
516530	PENETRATING WATER REPELLANT TREATMENT	SQ. YD.	5421	71	68	84	84	84	82	84	84	71		6133		
516545	PIER AND ABUTMENT REPAIR	SQ. FT.			19	30	27	71	157	54	103			461		
516548	EPOXY INJECTION	GALLON			0.8	2.0	0.6	1.6	8.0	2.0	3.0			18		
607050	VINYL COATED PEDESTRIAN CHAIN LINK FENCE	LIN. FT.	2463											2463		
709035	RIGID ELECTRICAL CONDUIT-2 1/2"	LIN. FT.	3847											3847		
710020	METAL PULL BOX	EACH	14											14		
768135	REINFORCED EARTH WALL (OR ALTERNATE)	SQ. FT.		5792								10632		16424		
0202.01	EXCAVATE & DISPOSE UNCLASSIFIED MTL. R/W	CU. YD.		2290								4020		6310		
0301.02	SUBGRADE PREP FOR ARTL./COLL. RDWY. 12" AT 95%, COMPL.	SQ. YD.											3317	3317		
~~0329.01~~	~~5/8" PLANT MIX SEAL COAT~~	~~SQ. YD.~~											~~3317~~	~~3317~~		
~~0336.10~~	~~3" ASPHALT CONC. BASE COURSE, 1800 LB STABILITY~~	~~SQ. YD.~~											~~3317~~	~~3317~~		
~~0336.XX~~	~~2 1/2" ASPHALT CONC. SURFACE COURSE, 1800 LB STABILITY~~	~~SQ. YD.~~											~~3317~~	~~3317~~		
0340.01	SIDEWALK 4", PCC	SQ. FT.												356		
0340.05	STD. CURB & GUTTER PCC INCL. SUBG. PREP, COMPL.	LIN. FT.												84		
0420.35	STREET LIGHT RELOCATION/SLV	EACH												8		
0801.XX	20" STEEL WATERLINE, W/FLANGE & REST.	LIN. FT.												596		
0801.18	20" D.I.P. WATERLINE, W/FIT & REST, WL	LIN. FT.												810		
0801.59	NON PRESS CONN. W/ FIT, WL	EACH												2		
0801.89	20" BUTTERFLY VALVE	EACH												2		

DESIGN DATA

DESIGN IS IN ACCORDANCE WITH AASHTO SPECIFICATIONS 1983 EDITION AND CURRENT INTERIMS.

DESIGN STRESSES: STRUCTURAL STEEL--AASHTO M-270, FS=20,000. PSI

REINFORCED CONCRETE:
SUPERSTRUCTURE: F'C=4,000. PSI AT 28 DAYS
FC=1,200. PSI FS=24,000. PSI
SUBSTRUCTURE: F'C=4,000. PSI AT 28 DAYS
FC=1,200. PSI FS=24,000. PSI GRADE 60
N=9 FS=20,000. PSI GRADE 40

LIVE LOAD: HS 20-44

WEARING SURFACE: 30 PSF ALLOWANCE FOR FUTURE WEARING SURFACE AND 1/4" MONOLITHIC CONCRETE.

HORIZONTAL EARTH PRESSURE: 30 LBS./CU. FT. EQUIVALENT FLUID PRESSURE AND 2 FT. SURCHARGE.

WIND VELOCITY: 80 MPH

SUPPLEMENTAL TECHNICAL SPECIFICATIONS

PORTLAND CEMENT CONCRETE

CONCRETE STRUCTURES

ELASTOMERIC BEARING PADS

PENETRATING WATER REPELLENT TREATMENT

SPECIAL SURFACE FINISH ON EXISTING CONCRETE

PROTECTIVE COATING OF NEW RAILING AND MISC. STRUCTURE STEEL
TYPE 2 SECTION 615 - B (11/1/90)

ELASTOMERIC EXPANSION JOINT SEALS

PIER AND ABUTMENT BEARING MODIFICATION

PIER AND ABUTMENT REPAIR

EPOXY INJECTION

RETAINED EARTH WALL

REINFORCED EARTH WALL

HILFIER RETAINING WALLS

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

Carlos G. Padilla 3/24/94
CARLOS G. PADILLA, P.E. NO. 11040 DATE

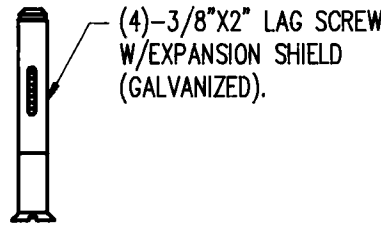
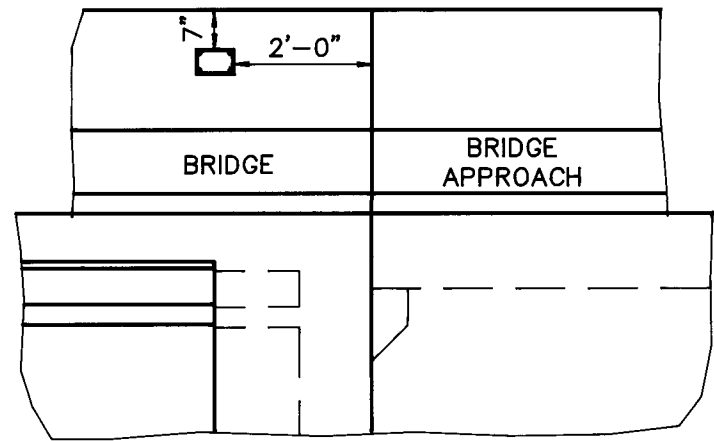
INCIDENTAL ITEMS

- BRIDGE PLATE INSTALLATION
- PREFORMED BITUMINOUS JOINT FILLER (AASHTO M213)
- UTILITY PIPE SLEEVES AND DECK INSERTS
- ELASTOMERIC BEARING PADS
- SPECIAL SURFACE FINISH FOR NEW CONCRETE SURFACES
- DECK SLAB SURFACE TEXTURE
- CLEANING OF EXISTING BRIDGE BEAMS.
- MODIFY EXISTING WATERLINE HANGER ASSEMBLY.
- NON-SHRINK GROUT.
- DRILL AND EPOXY REBAR AT PIERS.
- REINFORCING STRAPS AT ABUTMENT BACKWALL.

NOTE: ITEMS LISTED ABOVE ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY NOT BE COMPLETE. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIAL REQUIRED BY SPECIAL PROVISIONS, SERIALS (STANDARD DETAILS), SUPPLEMENTAL SPECIFICATIONS OR THE STANDARD SPECIFICATIONS.

CAPACITY RATINGS

INVENTORY HS-20
OPERATION HS-33



- NOTE:
- THE PLATE IS TO BE PLACED AT THE WEST END OF THE BRIDGE ON THE ROADWAY FACE OF THE CONCRETE BARRIER RAILING AT THE END OF THE DECK. LOCATE ON RIGHT SIDE AS ONE APPROACHES BRIDGE. SEE NOTE 12 THIS SHEET.

BRIDGE PLATE DETAILS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 4018 900595

AVID ENGINEERING, INC.
Civil • Structural • Transportation
6100 Seagull St., NE - Suite 102
Albuquerque, NM 87109 - (505) 881-5357

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE GENERAL NOTES AND QUANTITIES					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>B.G. Padilla</i>	3-1-93	Water	<i>N/A</i>	<i>AKO</i>
Transportation	<i>B. Padilla</i>	6-17-94	Waste Water		
Hydrology	<i>NA</i>				
DRAWING NO. 4018.90			MAP NO. K-14		SHEET 5 NO. 47

"3-K 14" ACS BRASS CAP (FOUND IN PLACE)
NEW MEXICO STATE PLANE COORDINATE
SYSTEM (CENTRAL ZONE)
Y = 1,485,136.24 X = 380,241.23
G = 0.99967968
Δα = 0°13'48" ELEV. = 4950.564

LEAD AVE. S.E.

STA. 0+00 E CONSTRUCTION LEAD AVE.
N = 1,485,530.91 E = 380,384.55

2ND STREET S.W.

1ST STREET S.W.

PLAN

SCALE:
HORIZ.: 1"=20'
VERT.: 1"=20'

REMOVAL NOTES:

- 1.) REMOVE & DISPOSE EXISTING BRIDGE DECK, DECK JOINTS, DIAPHRAGMS, CONCRETE APPROACHES, SIDEWALKS, AND C & G FROM STA. 0+67.17 TO STA. 13+30.00
- 2.) REMOVE & DISPOSE OF EXISTING ABUTMENTS, AND EXISTING PIERS 1, 2, 10, 11, 12, & 13 TO TOP OF PILE CAPS.
- 3.) REMOVE & DISPOSE OF ALL EXISTING SOLE PLATES, ROCKERS, & BEARING PLATES.
- 4.) REMOVE & DISPOSE OF EXISTING BRIDGE BEAMS FROM SPANS 1, 2, 11, 12, 13, & 14 ONLY. EXISTING BEAMS FROM SPANS 3 THRU 10 ARE TO BE RE-USED IN THE NEW CONSTRUCTION.
- 5.) EXISTING LIGHT STANDARDS & MOUNTING BRACKETS ARE TO BE RELOCATED. SEE SHEET 26 FOR DETAILS.
- 6.) SEE WATERLINE P&P'S FOR REPLACEMENT OF EXISTING 20" DIA. W.L.

EXISTING PROFILE
TOP OF CURB LT.

EXISTING PROFILE
TOP OF CURB RT.

EXISTING RETAINING
WALL

STA. 1+63.67 LT. & RT.
BEGIN REINFORCED EARTH RETAINING
WALL

REINFORCED EARTH
RETAINING WALL

REMOVE ANY AREAS OF UNSUITABLE
MATERIAL & REPLACE WITH ENGINEERED
BACKFILL AT THE DIRECTION OF THE
PROJECT ENGINEER.

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL
CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND
THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH
INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS
DEPARTMENT.

CARLOS G. PADILLA, P.E. NO. 11040

3/21/94
DATE



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26 40 18 9 0 0 6 9 5

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: LEAD AVENUE BRIDGE
PLAN & PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	3/2/94	3-1-93	Water	N/A	4/2
Transportation	6-17-92	6-17-92	Waste Water		
Hydrology	N/A				

DRAWING NO. 4018.90 MAP NO. K-14 SHEET 6 NO. 47

ENGINEER'S SEAL



SURVEY INFORMATION

FIELD NOTES

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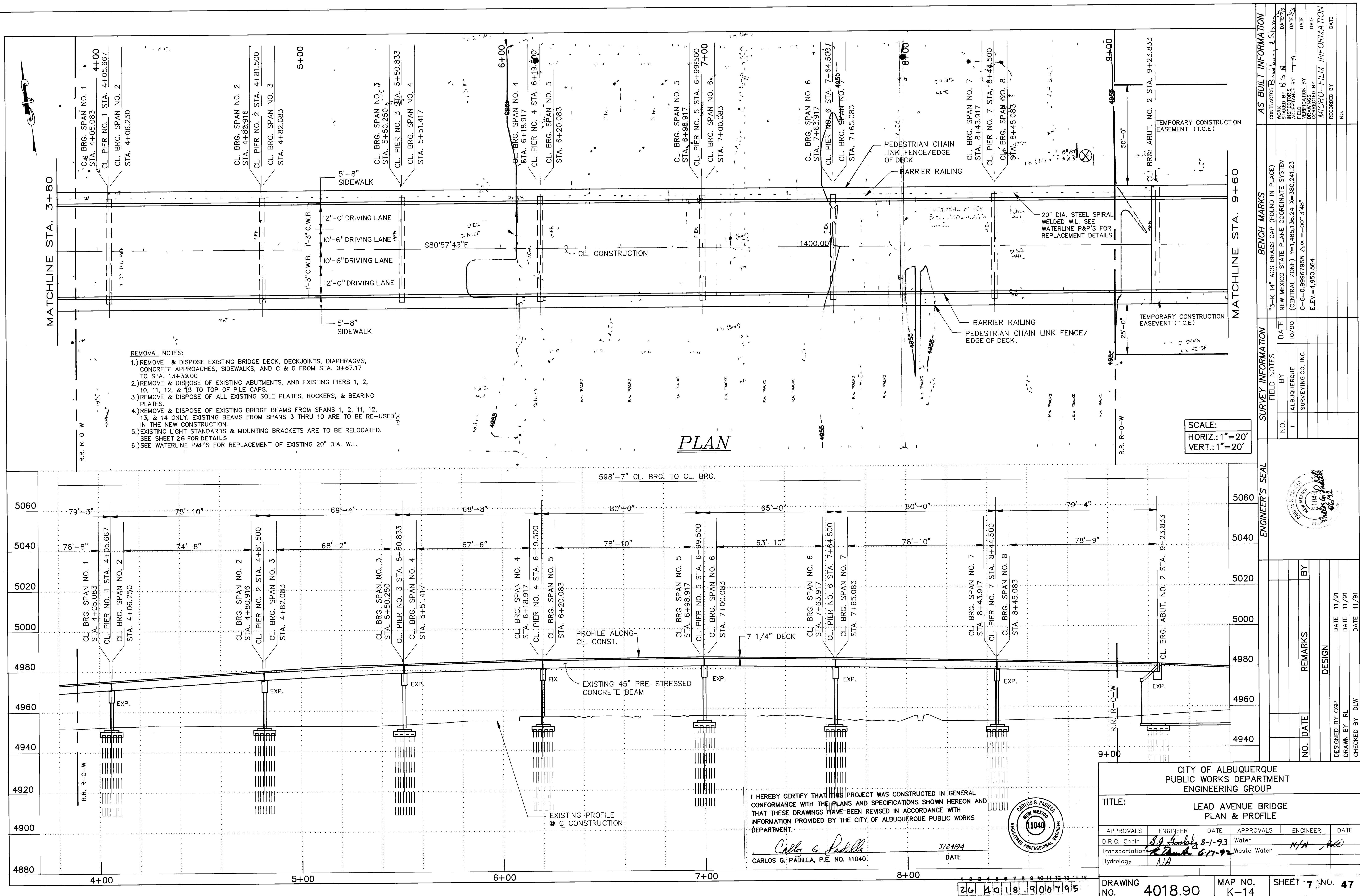
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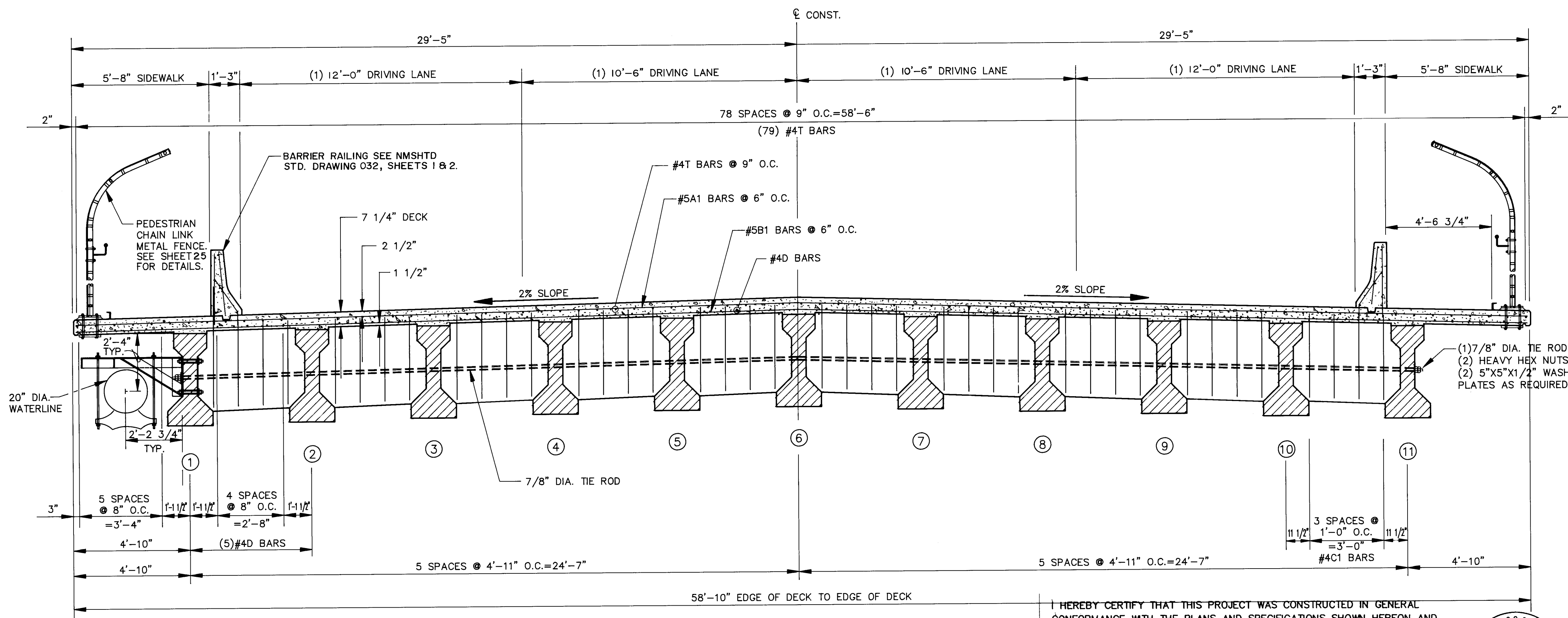
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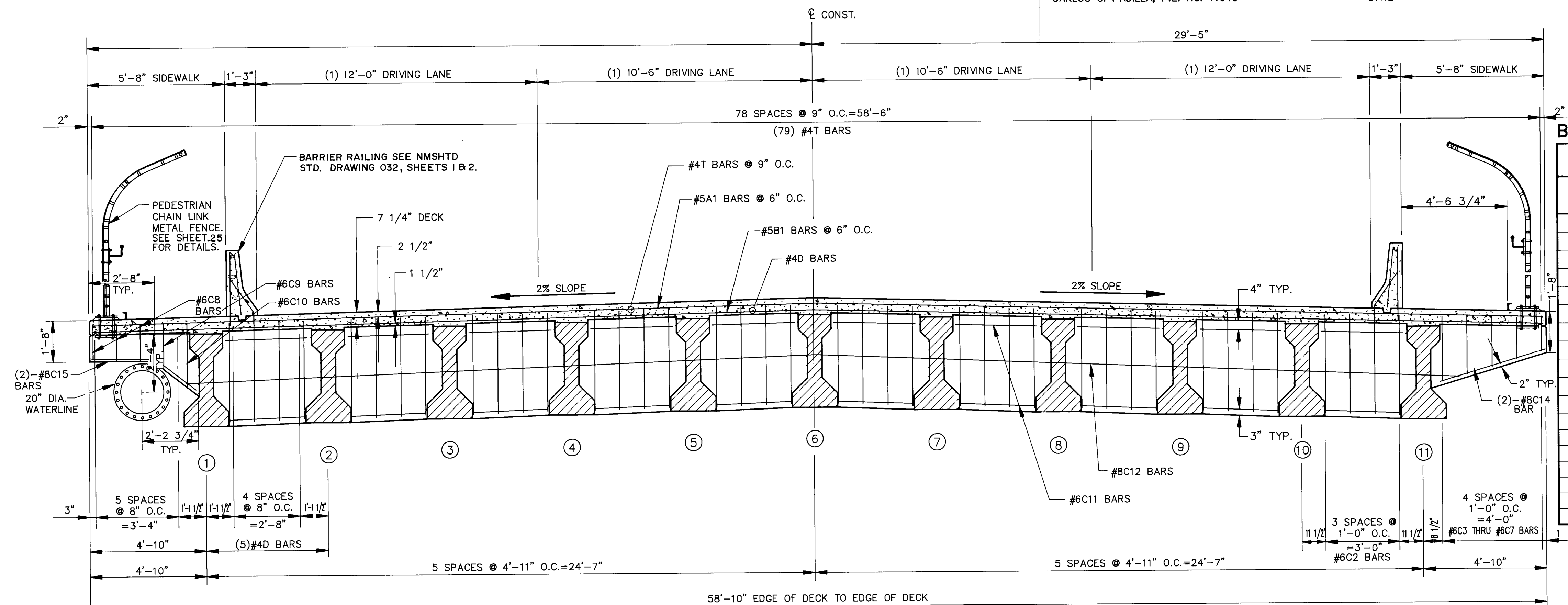




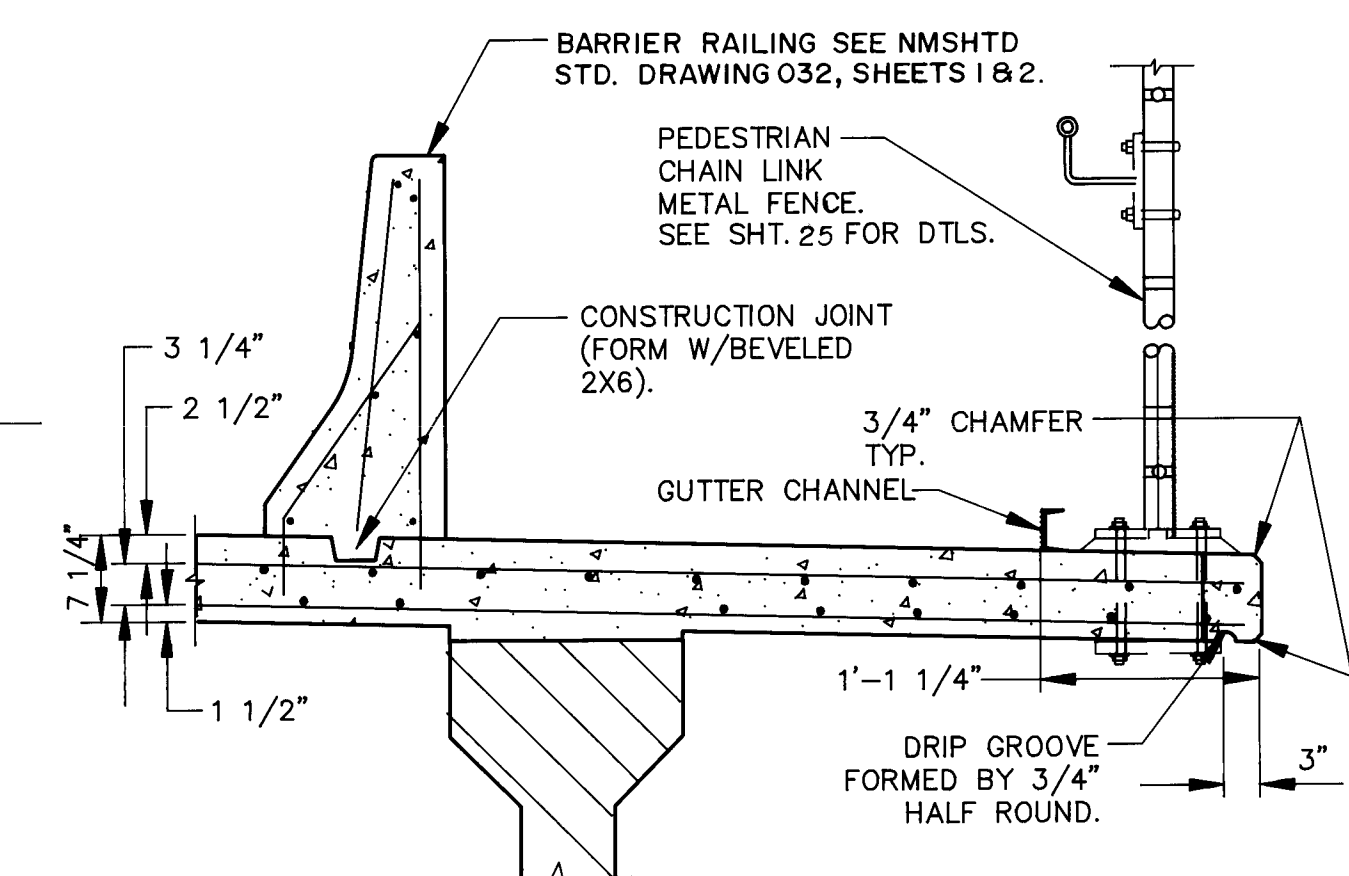
TRANSVERSE SECTION AT END DIAPHRAGM
SCALE: 3/8"=1'-0"

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

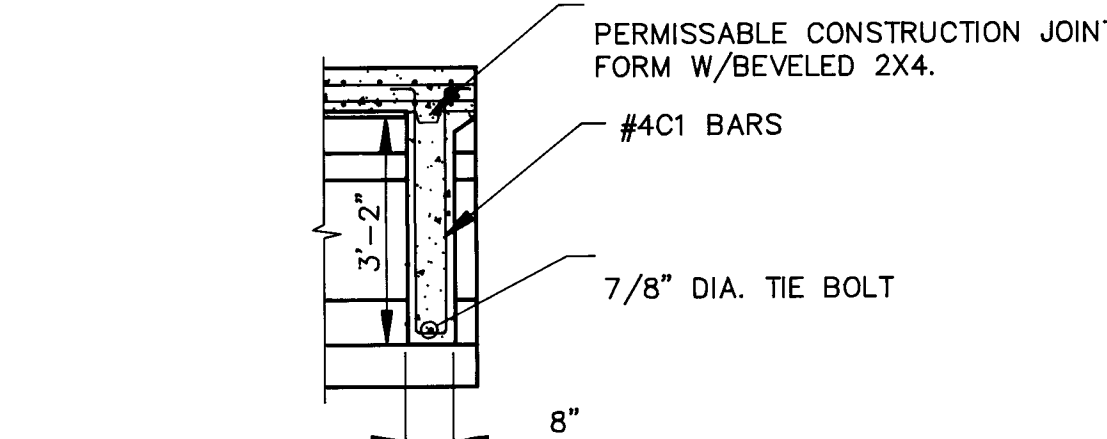
Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040
DATE 3/24/94



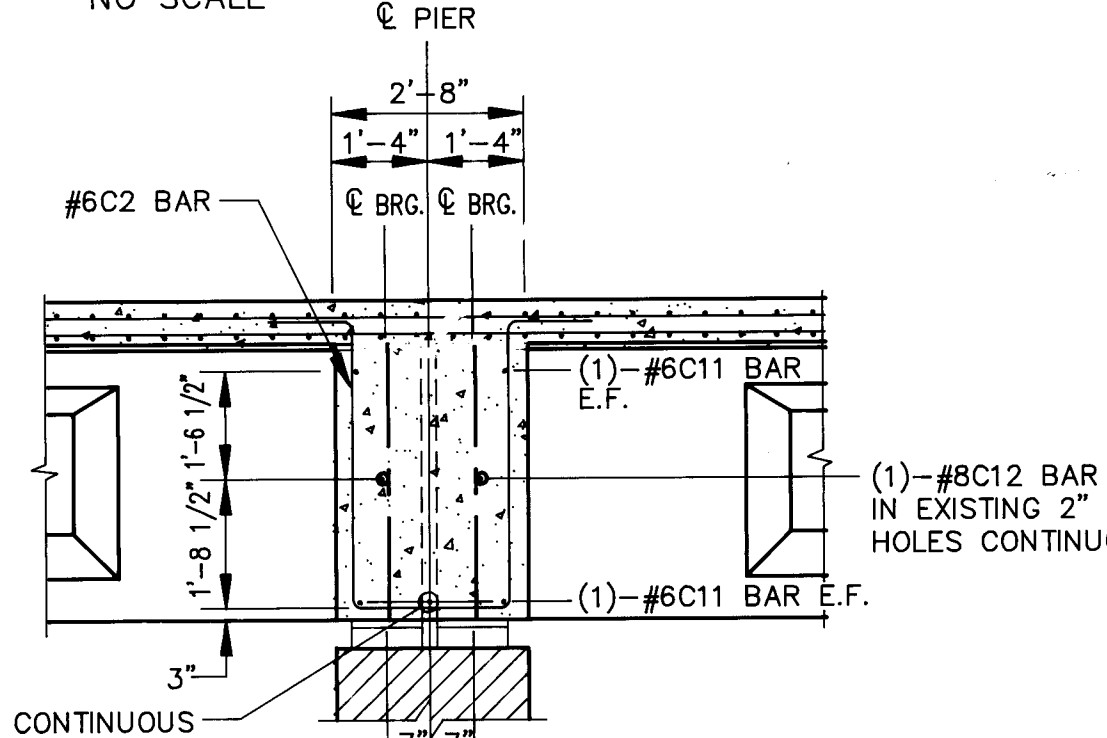
TRANSVERSE SECTION AT PIER DIAPHRAGM
SCALE: 3/8"=1'-0"



SLAB DETAIL
NO SCALE



SECTION AT END DIAPHRAGM
NO SCALE



SECTION AT PIER DIAPHRAGM
NO SCALE

BOTTOM MAT REINFORCING

REGULAR GRADE 60 BARS				
BAR	TYPE	SIZE	LENGTH	NO. REQ'D
#5B1	1	5	58'-6"	1199
#4D1	1	4	40'-0"	186
#5D2	1	5	60'-0"	434
#4D3	1	4	36'-0"	62
#4D4	1	4	45'-2"	62
#4C1	2	4	8'-3"	80
#6C2	3	6	11'-4"	280
#6C3	4	6	8'-8"	1
THRU INC.=0'-8 1/4"				35
#6C7	4	6	5'-11"	1
#6C8	4	6	5'-11"	21
#6C9	4	6	6'-8"	7
#6C10	4	6	8'-2"	7
#6C11	1	6	3'-0"	280
#8C12	1	8	50'-6"	14
#8C13	1	8	47'-4"	7
#8C14	1	8	4'-6"	14
#8C15	5	8	4'-9"	14

TOP MAT REINF. STEEL

EPOXY COATED GRADE 60 BARS				
BAR	TYPE	SIZE	LENGTH	NO. REQ'D
#5A1	1	5	58'-6"	1199
#4T1	1	4	40'-0"	237
#4T2	1	4	60'-0"	553
#4T3	1	4	36'-0"	79
#4T4	1	4	45'-2"	79
#6T5	1	6	40'-0"	546

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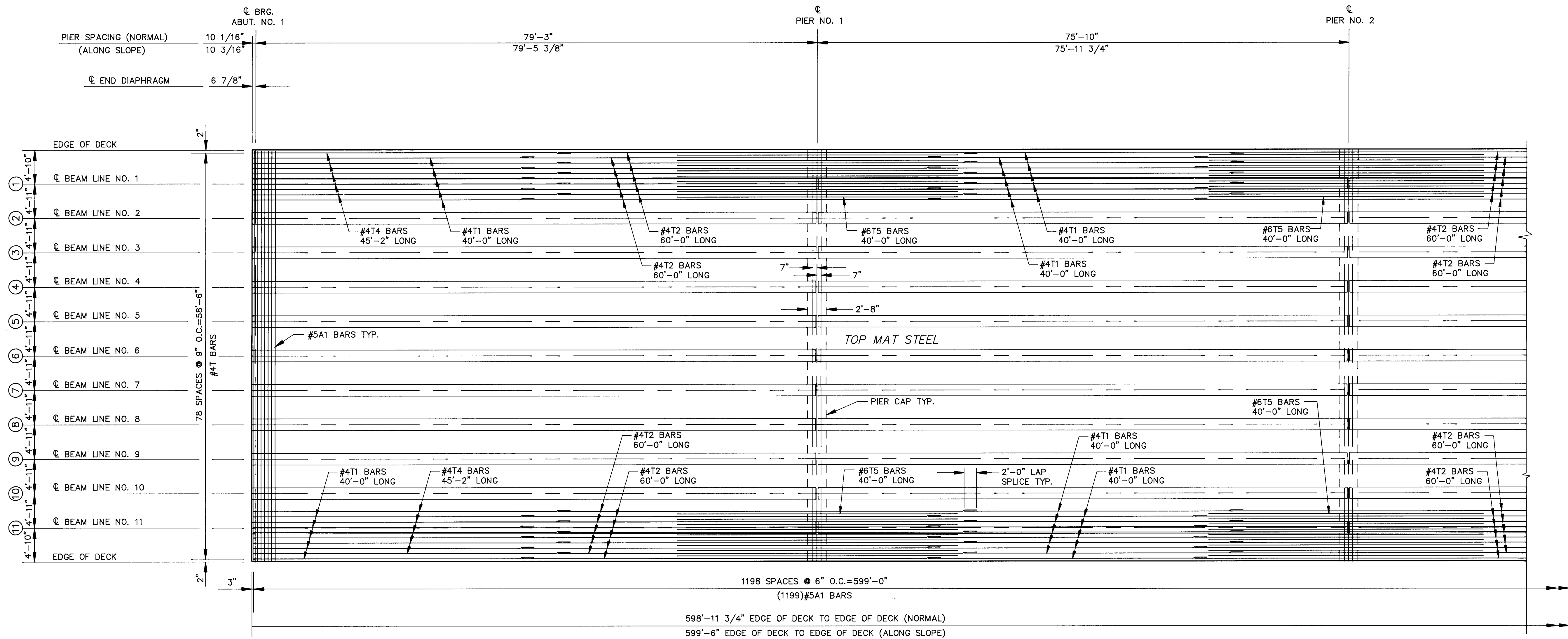
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: LEAD AVENUE BRIDGE
TRANSVERSE SECTION

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>Carlos G. Padilla</i>	3-1-93	Water	<i>N/A</i>	<i>N/A</i>
Transportation	<i>R. Padilla</i>	6-17-94	Waste Water		
Hydrology	<i>N/A</i>				

DRAWING NO. 4018.90 MAP NO. K-14 SHEET 9 NO. 47

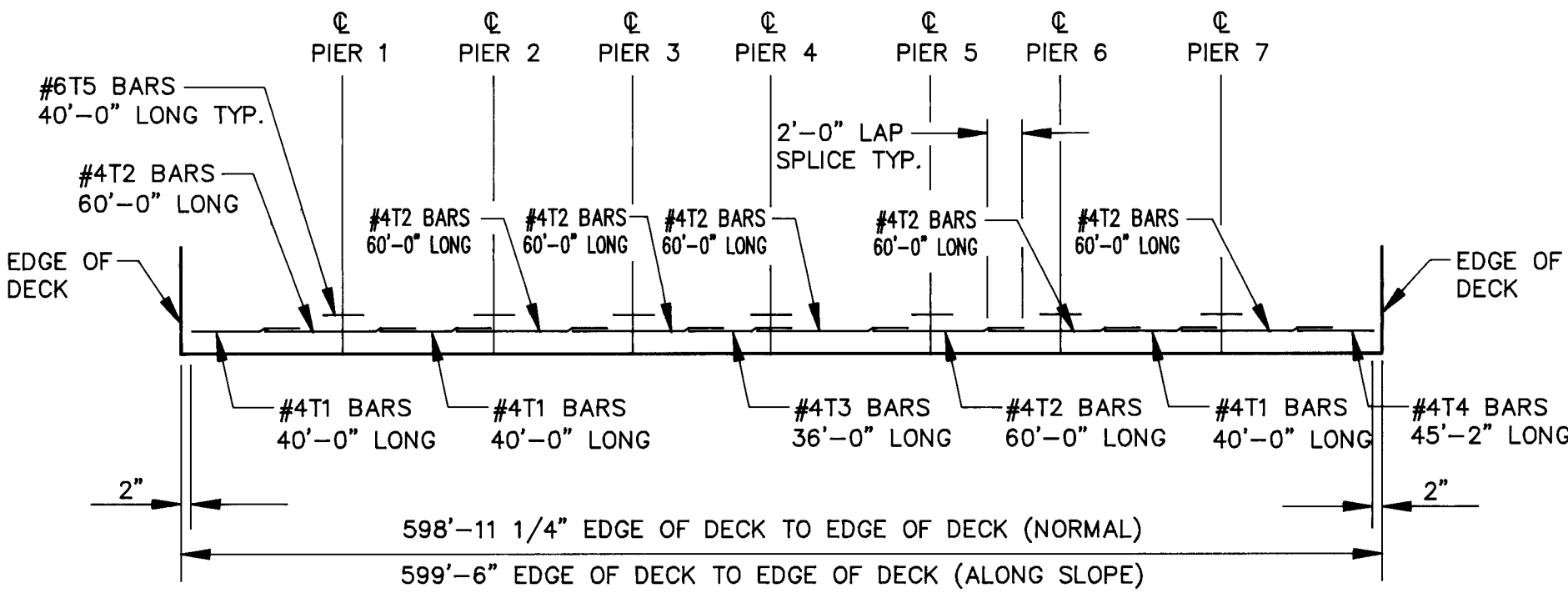
AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	Boyle & Shaw	DATE	WORK	NEW MEXICO STATE PLANE COORDINATE SYSTEM	DATE	FIELD NOTES	NO.	BY	NO.	DATE	BY
STAKED BY	R. S. N.	DATE	FIELD ACCEPTANCE BY	DATE	DATE	ALBUQUERQUE	10/90	ALBUQUERQUE	10/90	ALBUQUERQUE	10/90
DRAWINGS	DATE	DATE	REVISIONS	DATE	DATE	G-G=0.99967968	Δα=0.001348"	ELEV=4,950.564			
MICRO-FILM INFORMATION			RECORDED BY			NO.			DESIGN		
DATE			DATE			DATE			DATE		



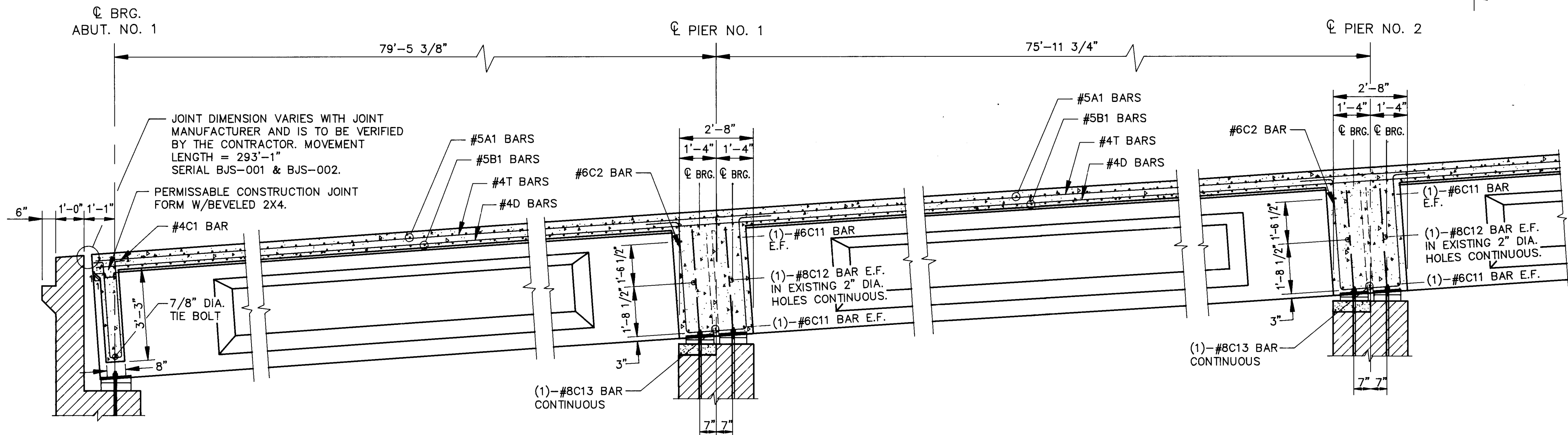
DECK REINFORCEMENT PLAN SPANS 1&2
SCALE: 1/8"=1'-0" (TOP MAT STEEL)

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040
DATE 3/24/94



TYPICAL TOP MAT STEEL
LONGITUDINAL REBAR RUN
NO SCALE



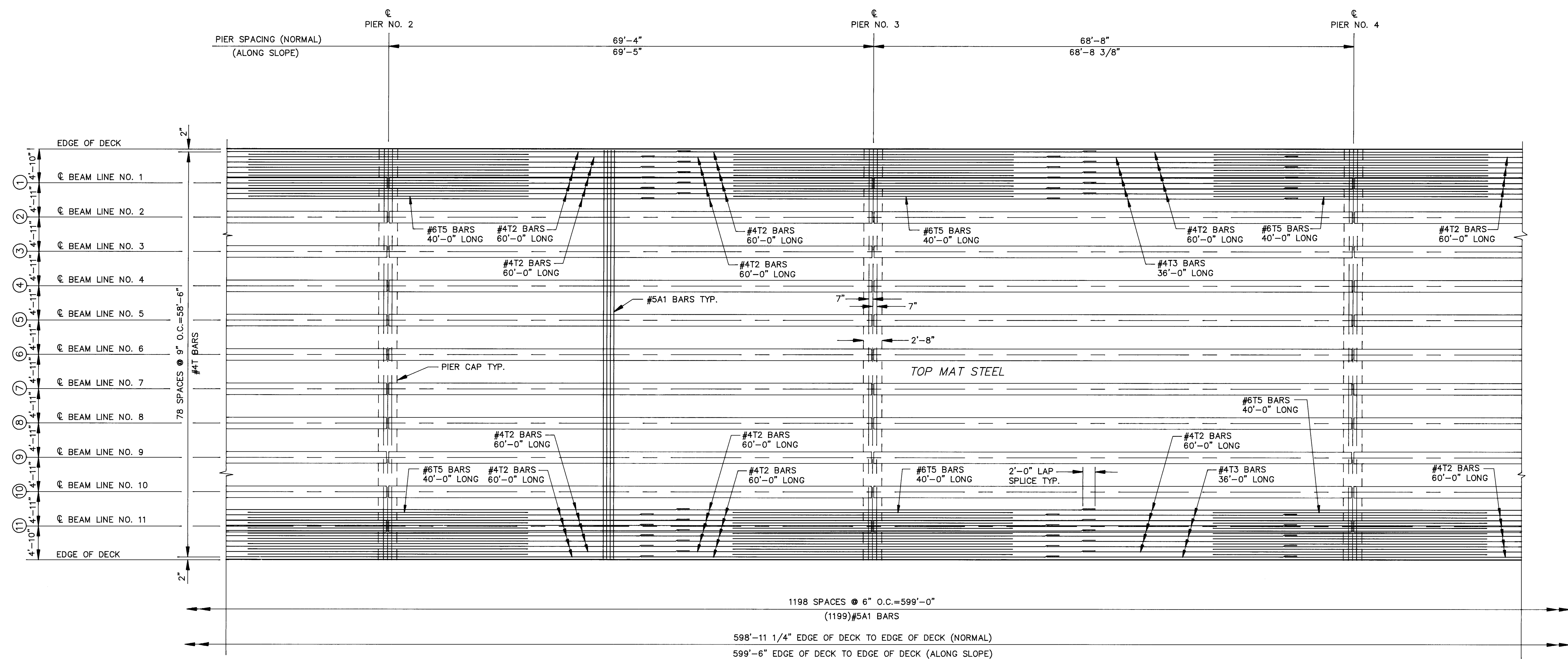
PARTIAL LONGITUDINAL SECTION THRU DECK SLAB
NO SCALE

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Albuquerque, NM 87109 - (505) 881-5357

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE DECK REINFORCEMENT PLAN SPANS 1&2 (TOP MAT STEEL)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>[Signature]</i>	3-1-93	Water	<i>[Signature]</i>	
Transportation	<i>[Signature]</i>	6-17-92	Waste Water		
Hydrology	<i>[Signature]</i>				
DRAWING NO.	4018.90	MAP NO. K-14	SHEET 10 NO. 47		

ENGINEER'S SEAL			SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
			FIELD NOTES					
			NO.	BY	DATE			
			1	ALBUQUERQUE	10/90	NEW MEXICO STATE PLANE COORDINATE SYSTEM		WORK BY B. S. N. DATE 11/91
				SURVEYING CO. INC.		(CENTRAL ZONE) Y=1,485,136.24 X=380,241.23		INSPECTOR'S DATE 11/91
						G-G=0.99967968 $\Delta \alpha = -00^{\circ}13'48"$		ACCEPTANCE BY TA DATE 11/91
						ELEV.=4,950.564		DATE
						DRAWINGS		DATE
						CORRECTED BY		DATE
						MICRO-FILM INFORMATION		DATE
						RECORDED BY		DATE



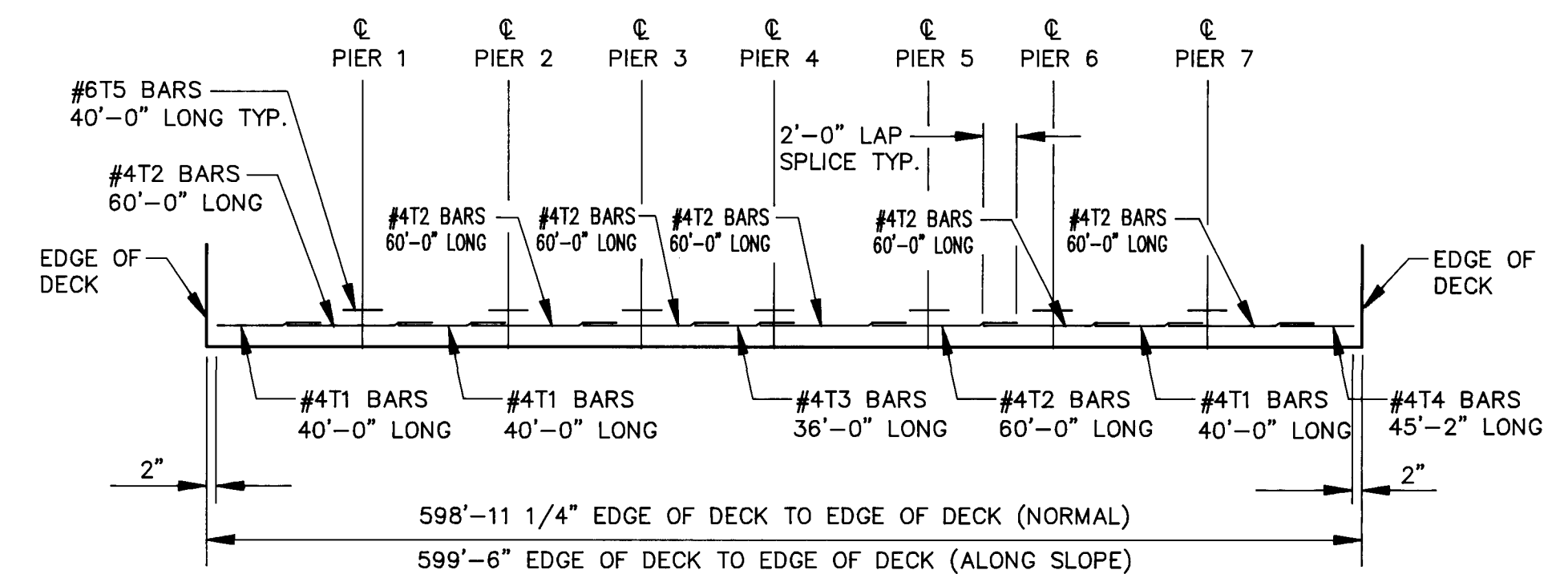


DECK REINFORCEMENT PLAN SPANS 3&4

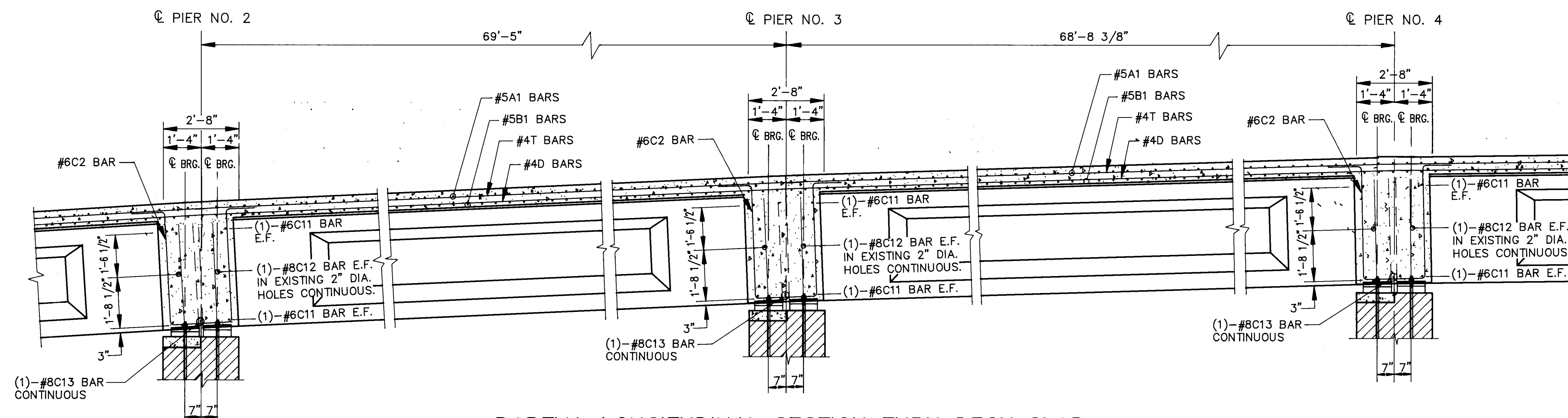
SCALE: 1/8"=1'-0" (TOP MAT STEEL)

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040
3/29/99
DATE

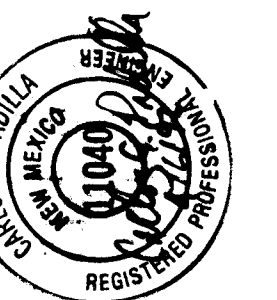


TYPICAL TOP MAT STEEL
LONGITUDINAL REBAR RUN
NO SCALE



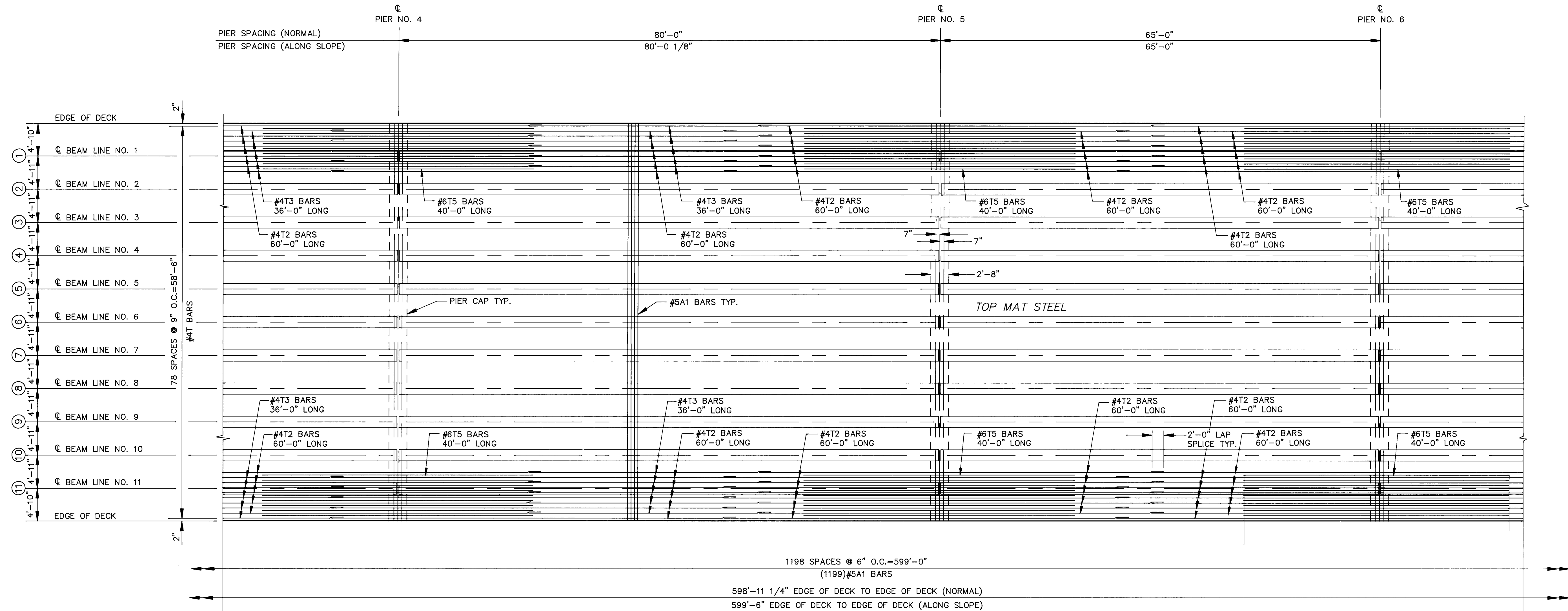
PARTIAL LONGITUDINAL SECTION THRU DECK SLAB
NO SCALE

AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	DATE	WORK	DATE	CONTRACTOR	DATE	WORK	DATE	NO.	BY	DATE	NO.	BY	DATE	NO.	BY
STAKED BY B.S.N.	DATE 12-13	INSPECTED BY T.A.	DATE 12-13	NEW MEXICO STATE PLANE COORDINATE SYSTEM	DATE 10/90	ALBUQUERQUE	DATE 10/90	1	ALBUQUERQUE	DATE 10/90	1	ALBUQUERQUE	DATE 10/90	1	ALBUQUERQUE
FIELD	DATE	FIELD	DATE	(CENTRAL ZONE) Y=1,485,136.24 X=380,241.23		G-G=0.99967968 Δα=-001'3.48"									
DRAWN BY	DATE	DRAWN BY	DATE	ELEV.=4,950.564											
CORRECTED BY	DATE	CORRECTED BY	DATE												
RECORDED BY	DATE	RECORDED BY	DATE												
NO.		NO.													



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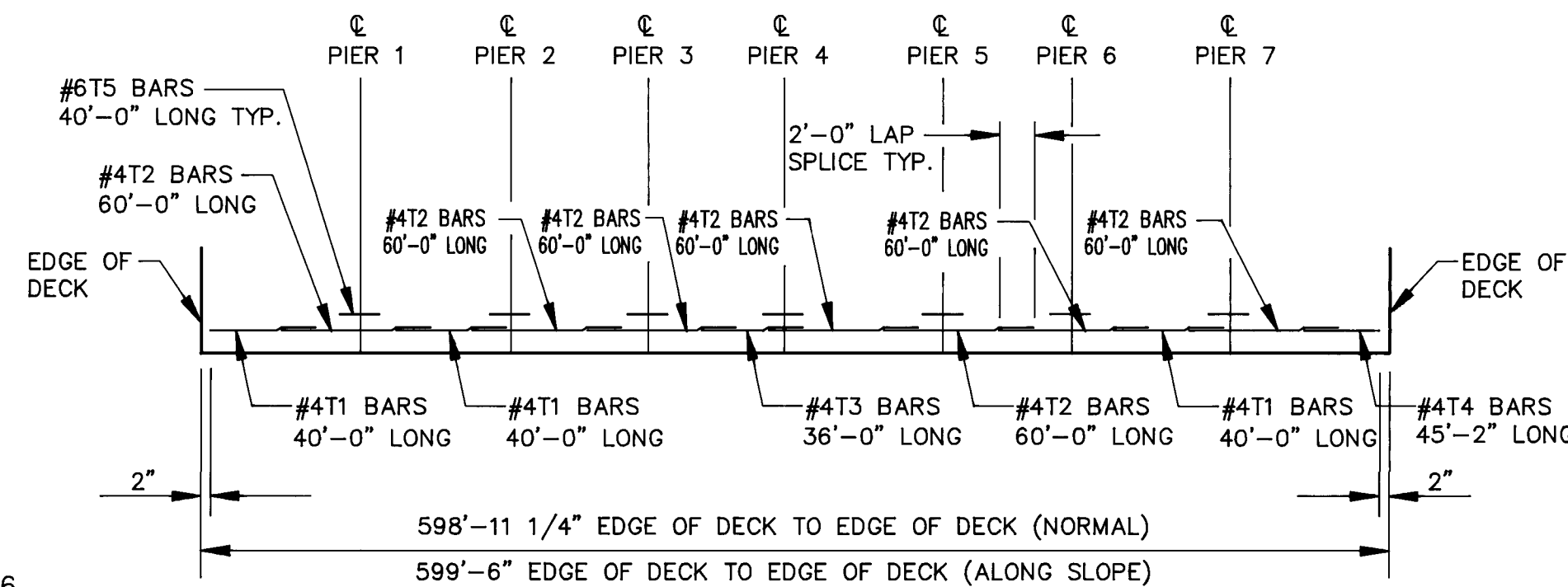
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE DECK REINFORCEMENT PLAN SPANS 3&4 (TOP MAT STEEL)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>S.G. Padilla</i>	3-1-93	Water	N/A	
Transportation	N/A	6-7-93	Waste Water		
Hydrology					
DRAWING NO.	4018.90	MAP NO.	K-14	SHEET	11 NO. 47



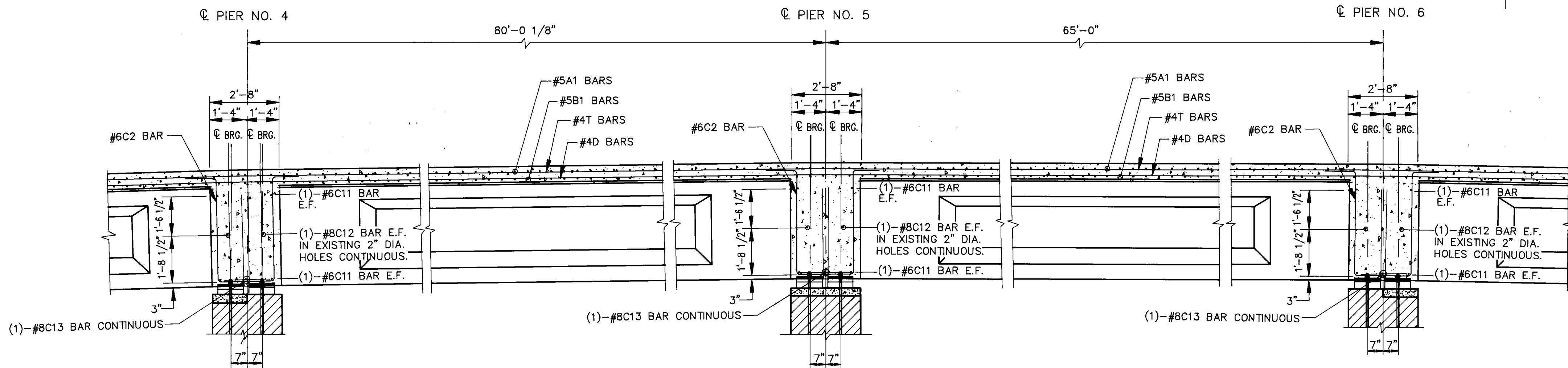
DECK REINFORCEMENT PLAN SPANS 5&6
SCALE: 1/8"=1' (TOP MAT STEEL)

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040
3/24/94
DATE



TYPICAL TOP MAT STEEL
LONGITUDINAL REBAR RUN
NO SCALE

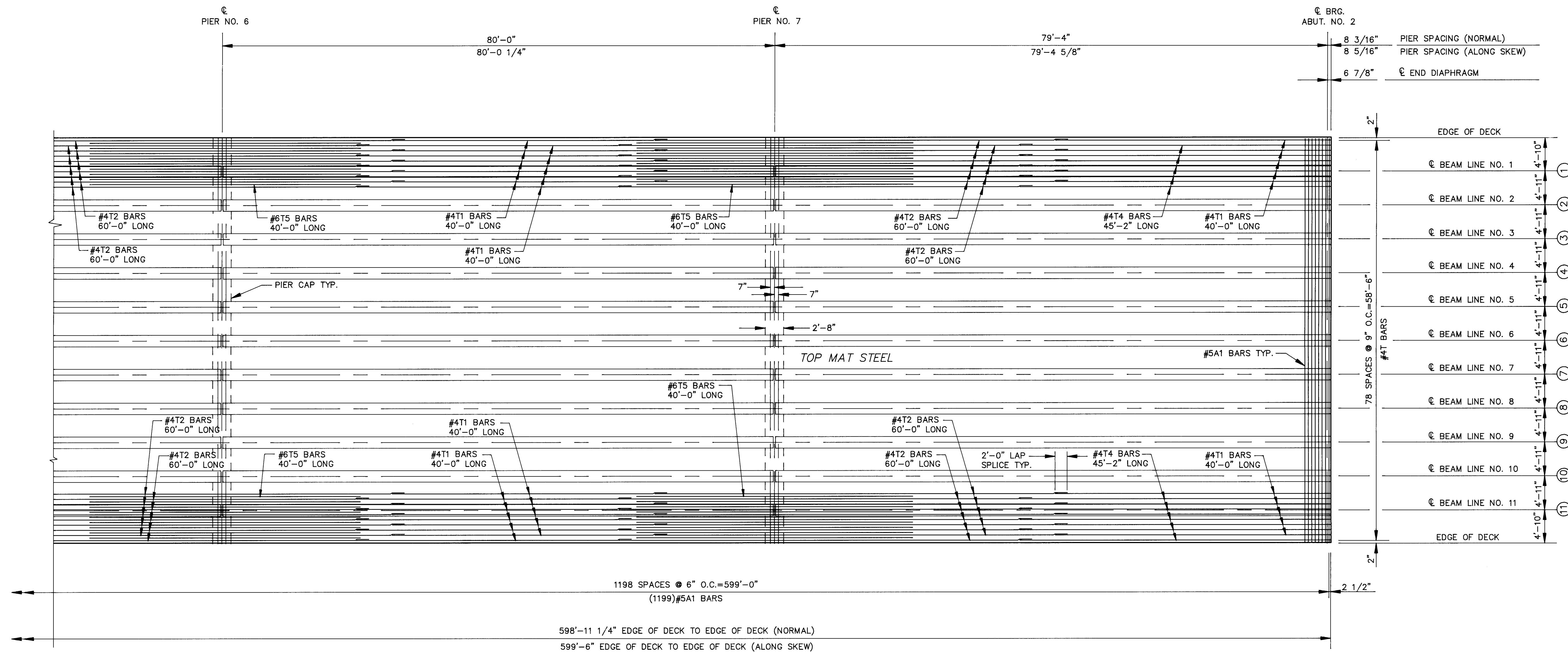


PARTIAL LONGITUDINAL SECTION THRU DECK SLAB
NO SCALE

AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	DATE	BY	NO.	CONTRACTOR	DATE	BY	NO.	DATE	BY	NO.	NO.				
NEW MEXICO STATE PLANE COORDINATE SYSTEM	10/90	10/90	10/90	NEW MEXICO STATE PLANE COORDINATE SYSTEM	10/90	10/90	10/90	DATE	BY	NO.	NO.				
INSPECTOR'S	DATE	BY	NO.	INSPECTOR'S	DATE	BY	NO.	DATE	BY	NO.	NO.				
FIELD	DATE	BY	NO.	FIELD	DATE	BY	NO.	DATE	BY	NO.	NO.				
VERIFICATION BY	DATE	BY	NO.	VERIFICATION BY	DATE	BY	NO.	DATE	BY	NO.	NO.				
CORRECTED BY	DATE	BY	NO.	CORRECTED BY	DATE	BY	NO.	DATE	BY	NO.	NO.				
MICRO-FILM INFORMATION				MICRO-FILM INFORMATION				MICRO-FILM INFORMATION							
RECORDED BY	DATE	BY	NO.	RECORDED BY	DATE	BY	NO.	DATE	BY	NO.	NO.				

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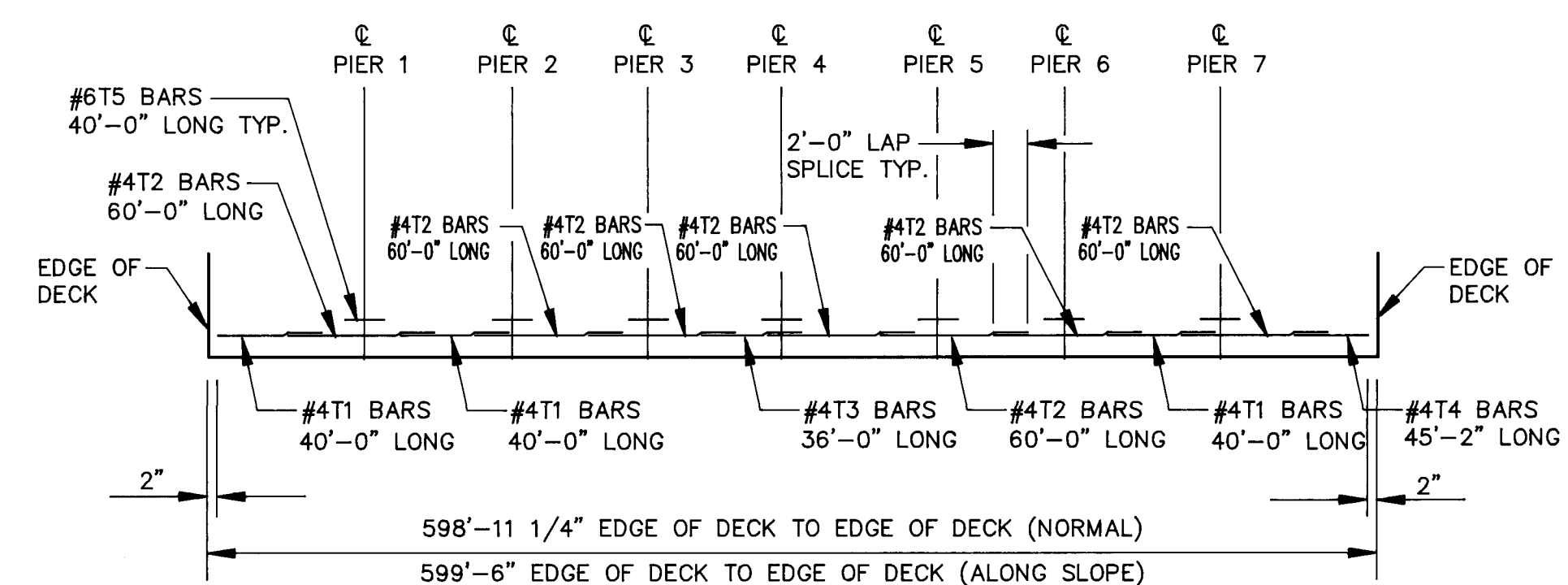
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP									
TITLE: LEAD AVENUE BRIDGE									
DECK REINFORCEMENT PLAN SPANS 5&6 (TOP MAT STEEL)									
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE				
D.R.C. Chair	<i>[Signature]</i>	3-1-93	Water	<i>[Signature]</i>	N/A				
Transportation	<i>[Signature]</i>	6-17-94	Waste Water	<i>[Signature]</i>					
Hydrology	<i>[Signature]</i>			<i>[Signature]</i>					
DRAWING NO.	4018.90	MAP NO.	K-14	SHEET	12 NO.	47			



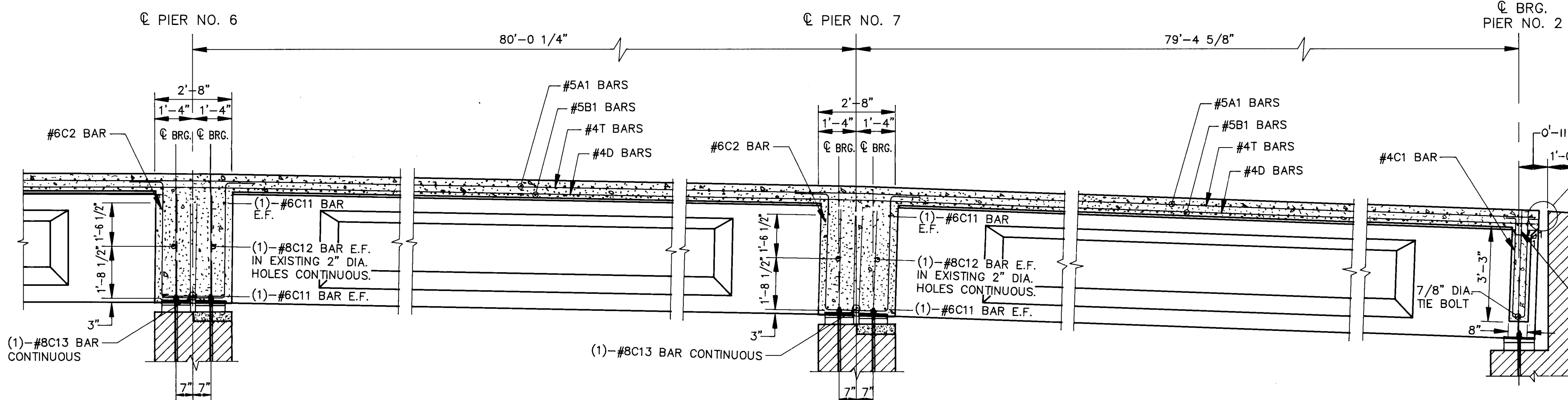
DECK REINFORCEMENT PLAN SPANS 7&8
SCALE: 1/8"=1'-0" (TOP MAT STEEL)

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040
3/21/94
DATE



TYPICAL TOP MAT STEEL LONGITUDINAL REBAR RUN
NO SCALE



PARTIAL LONGITUDINAL SECTION THRU DECK SLAB
NO SCALE

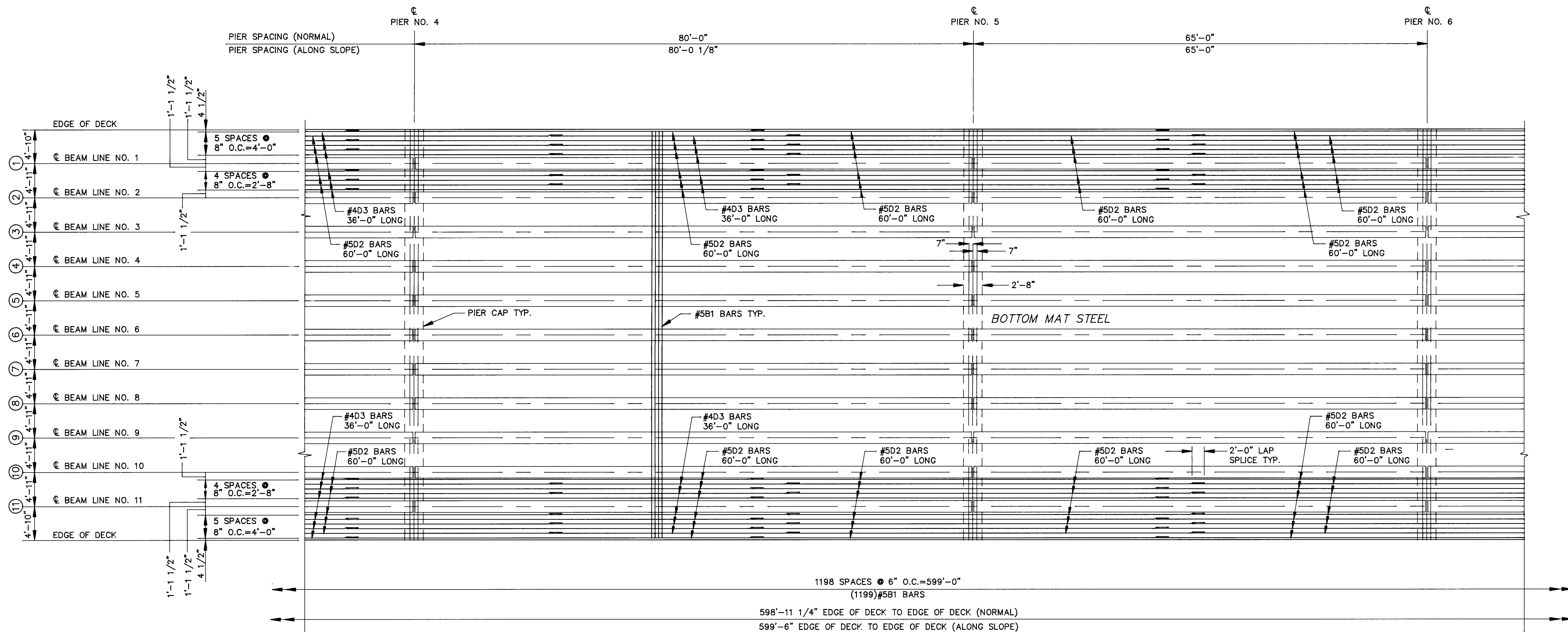
ENGINEER'S SEAL			SURVEY INFORMATION			BENCH MARKS			AS BUILT INFORMATION		
			FIELD NOTES			"3-K 14" ACS BRASS CAP (FOUND IN PLACE)			CONTRACTOR <u>Boulder & Shaw</u>		
			NO.	BY	DATE	NEW MEXICO STATE PLANE COORDINATE SYSTEM			WORK	STARTED BY <u>L.S.N.</u>	
			1	ALBUQUERQUE	10/90	(CENTRAL ZONE) Y=1,485,136.24 X=380,241.23			DATE <u>10/90</u>	DATE <u>10/90</u>	
				SURVEYING CO. INC.		G-G=0.99967968 $\Delta\alpha = -00^{\circ}13'48''$			FIELD LOCATION BY	DATE	
						ELEV.=4,950.564			DRAWINGS	DATE	
									MICRO-FILM INFORMATION		
									RECORDED BY		
									DATE		
									NO.		
			DESIGN			DESIGNED BY			CP	DATE	11/91
						DRAWN BY			RLBN	DATE	11/91
						CHECKED BY			CP	DATE	11/91

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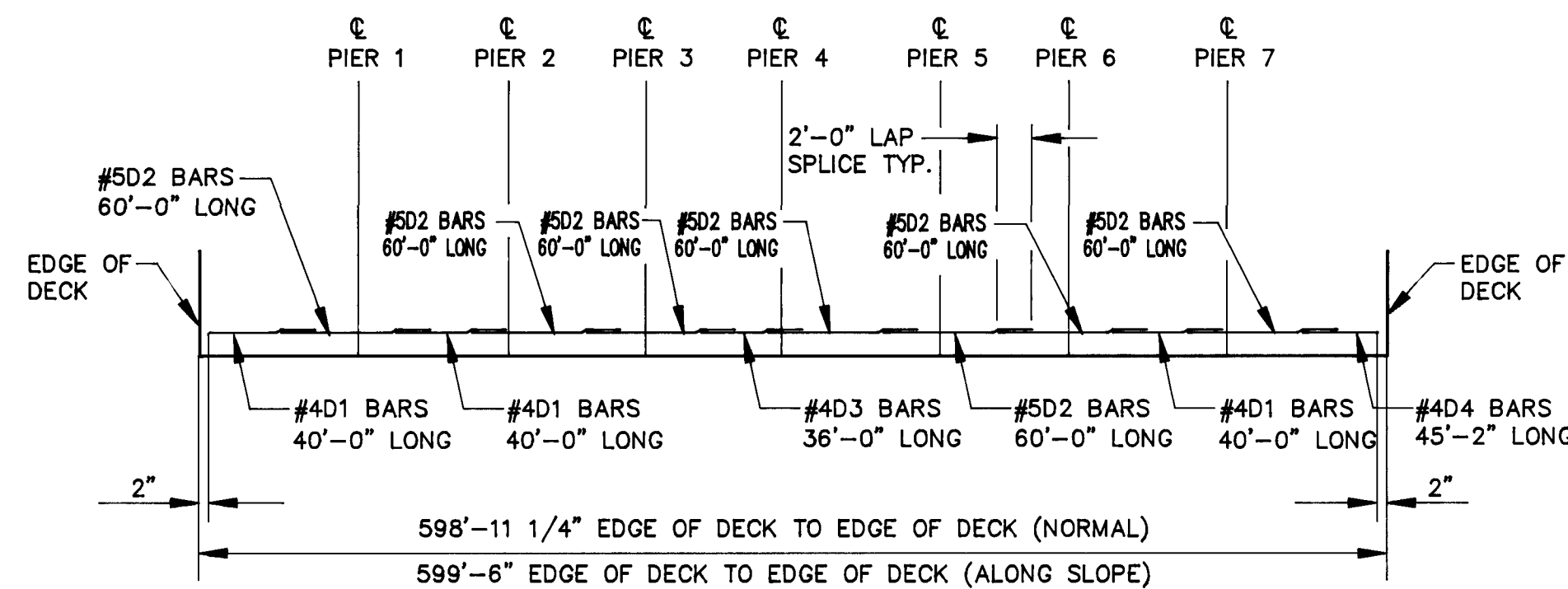
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE DECK REINFORCEMENT PLAN SPANS 7&8 (TOP MAT STEEL)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>3.8.100</i>	3-1-93	Water	<i>N/A</i>	
Transportation	<i>N/A</i>	6-17-93	Waste Water		
Hydrology					
DRAWING NO.	4018.90	MAP NO. K-14	SHEET 13 NO. 47		

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
216 4018.90 1901395

		ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION			
				FIELD NOTES							
				NO.	BY	DATE					
				1	ALBUQUERQUE	10/90	"3-K 14" ACS BRASS CAP (FOUND IN PLACE)				
					SURVEYING CO. INC.		NEW MEXICO STATE PLANE COORDINATE SYSTEM				
							(CENTRAL ZONE) Y=1,485,136.24 X=380,241.23				
							G-G=0.99967968 $\Delta \alpha = -007348"$				
							ELEV.=4,950.564				
				DESIGN		MICRO-FILM INFORMATION					
				DESIGNED BY	CGP	DATE	11/91	RECORDED BY	DATE		
				DRAWN BY	DLBN	DATE	11/91				
				CHECKED BY	DLW	DATE	11/91				



DECK REINFORCEMENT PLAN SPANS 5&6
SCALE: 1/8"=1' (BOTTOM MAT STEEL)



TYPICAL BOTTOM MAT STEEL
LONGITUDINAL REBAR RUN
NO SCALE

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Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040

3/21/99
DATE

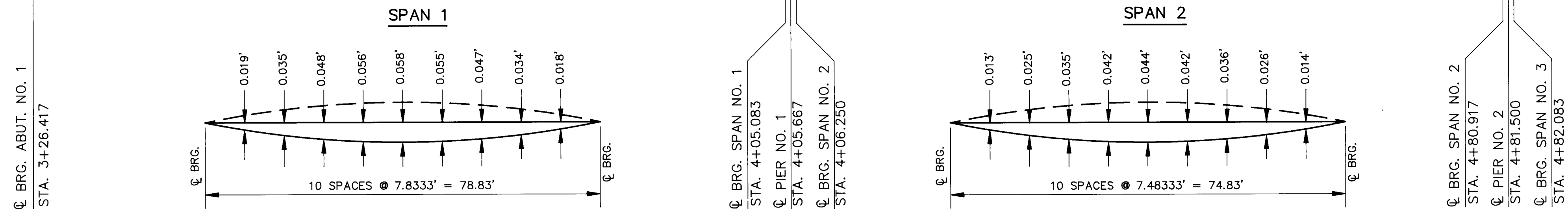
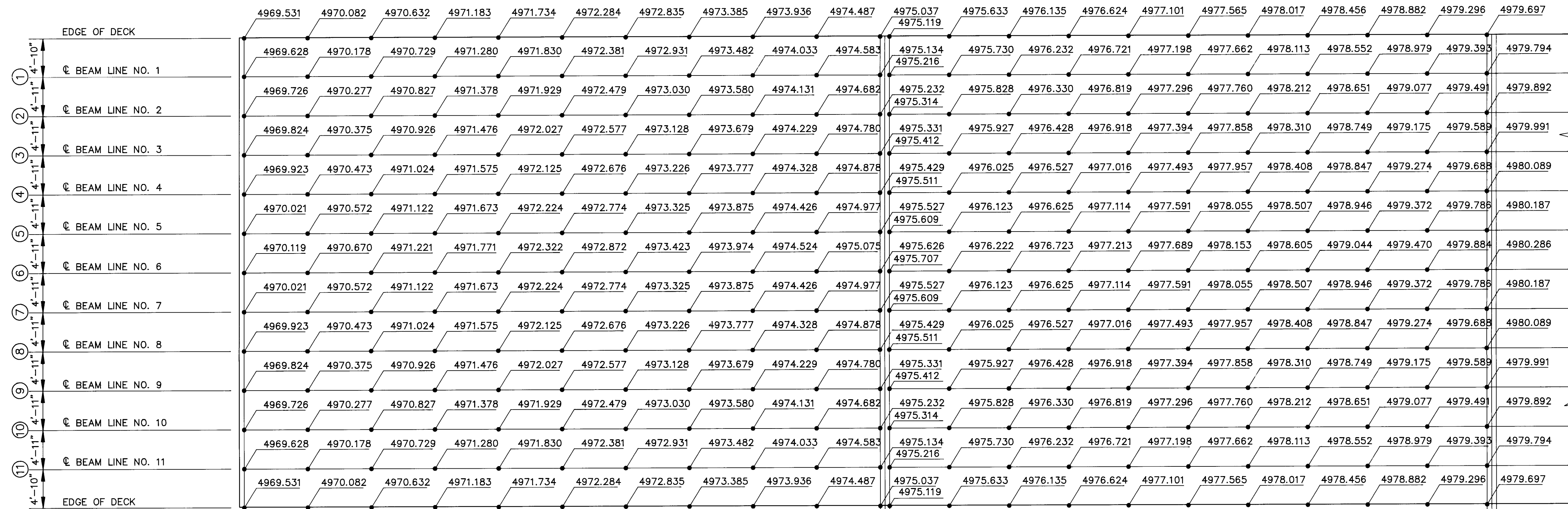


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26 4018.901695

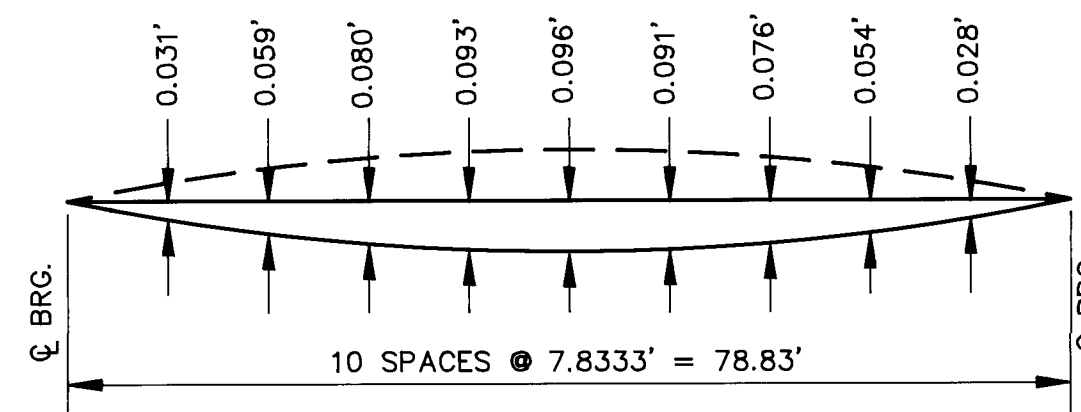
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE DECK REINFORCEMENT PLAN SPANS 5&6 (BOTTOM MAT STEEL)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>[Signature]</i>	3-1-93	Water	<i>[Signature]</i>	
Transportation	<i>[Signature]</i>	6-17-92	Waste Water	<i>[Signature]</i>	
Hydrology	<i>[Signature]</i>				
DRAWING NO.	4018.90	MAP NO. K-14	SHEET 16	NO. 47	

ENGINEER'S SEAL			SURVEY INFORMATION			BENCH MARKS			AS BUILT INFORMATION		
			FIELD NOTES			CONTRACTOR'S BENCH MARKS			CONTRACTOR'S BENCH MARKS		
			NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE
			1	ALBUQUERQUE SURVEYING CO. INC.	10/90	1	ALBUQUERQUE SURVEYING CO. INC.	10/90	1	ALBUQUERQUE SURVEYING CO. INC.	10/90
			DESIGN			MICRO-FILM INFORMATION			MICRO-FILM INFORMATION		
			DESIGNED BY	CGP	DATE 11/91	RECORDED BY		DATE	RECORDED BY		DATE
			DRAWN BY	RLBN	DATE 11/91	CHECKED BY		DATE	CHECKED BY		DATE

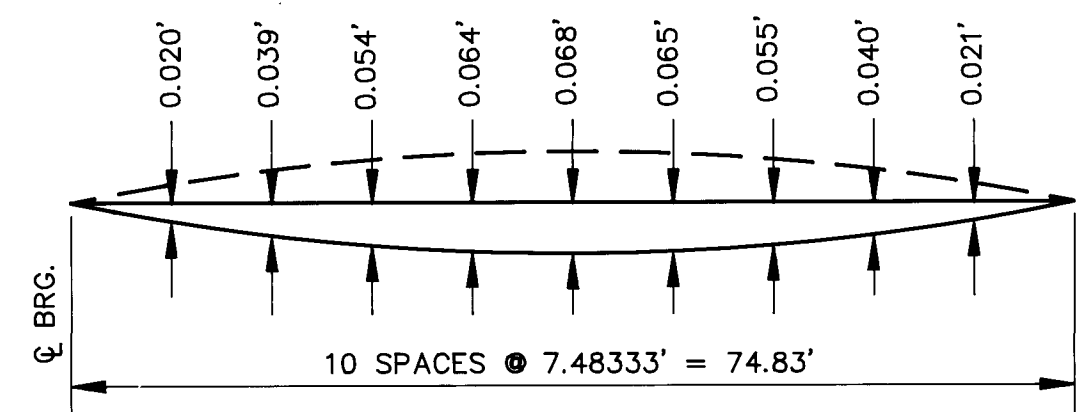


DEAD LOAD DEFLECTION DIAGRAM BEAMS 2 THRU 10
(DISTANCES ALONG SLOPE)

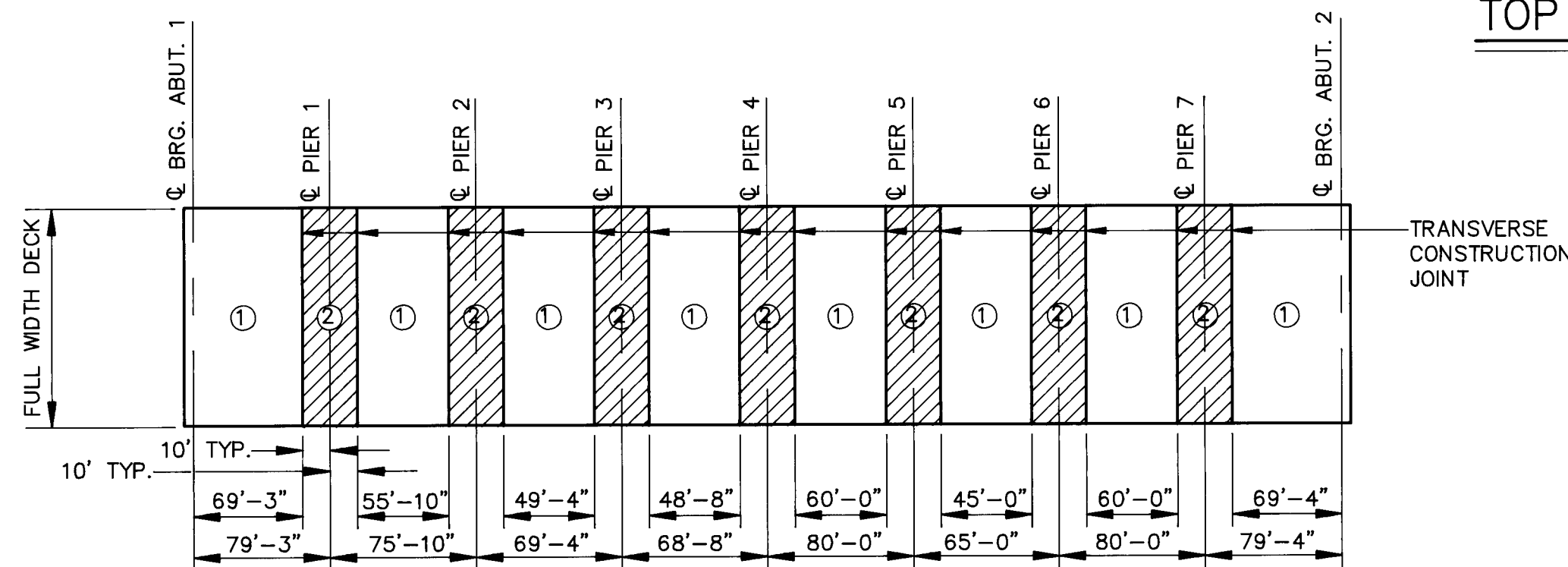
DEAD LOAD DEFLECTION DIAGRAM BEAMS 2 THRU 10
(DISTANCES ALONG SLOPE)



DEAD LOAD DEFLECTION DIAGRAM BEAMS 1 & 11
(DISTANCES ALONG SLOPE)



DEAD LOAD DEFLECTION DIAGRAM BEAMS 1 & 11
(DISTANCES ALONG SLOPE)



CONCRETE DECK PLACEMENT DETAIL
(PLAN DISTANCES)

TOP OF SLAB ELEVATIONS SPANS 1&2

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

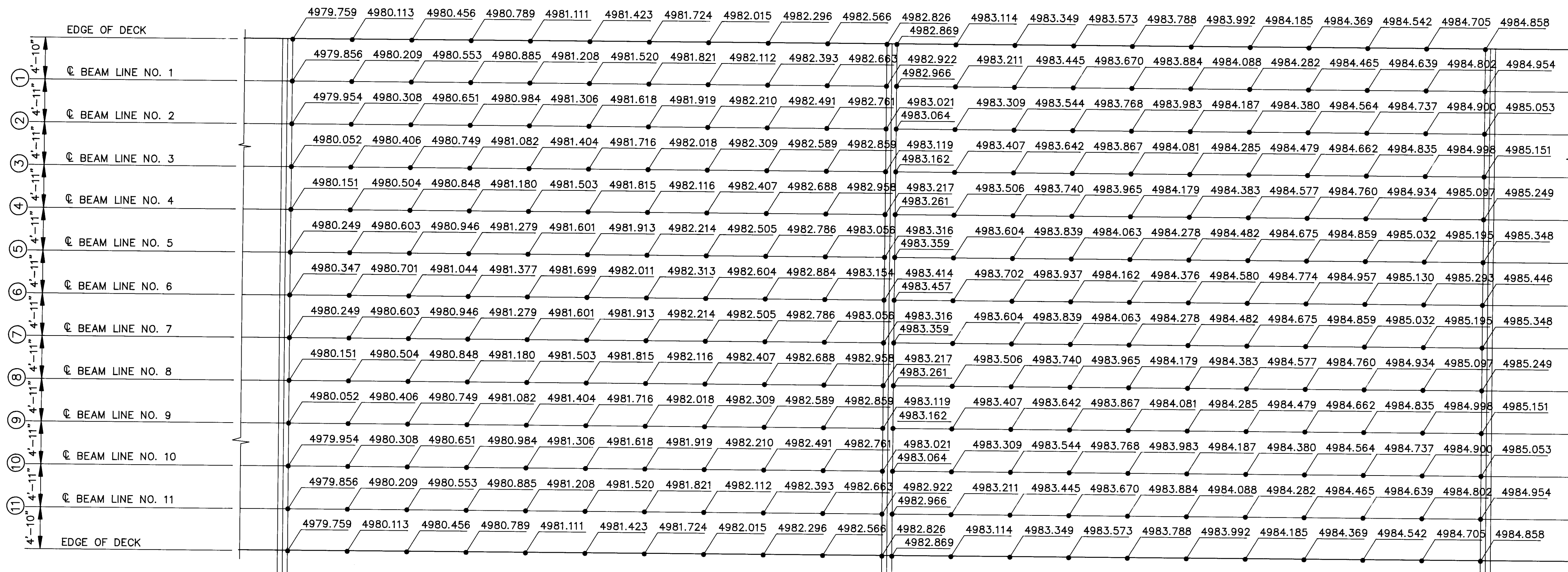
Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040
3/21/94
DATE

- NOTES:
- TO COMPENSATE FOR DEAD LOAD DEFLECTION DUE TO WEIGHT OF SLAB AND SUPERIMPOSED DEAD LOADS, SET SCREEDS ABOVE TOP OF SLAB ELEVATIONS. ALL DIMENSIONS SHOWN IN DEAD LOAD DEFLECTION DIAGRAMS ARE IN FEET.
 - CONCRETE SHALL BE PLACED THE HALF WIDTH OR FULL WIDTH OF THE DECK SLAB IN THE SEQUENCE SHOWN ABOVE AT A FORWARD RATE OF PROGRESS OF NOT LESS THAN 30 FT. PER HOUR. PLACEMENT 1 MAY BE MADE ON THE SAME OR SEPARATE DAYS AND PLACEMENTS 2 MAY BE MADE ON THE SAME OR SEPARATE DAYS. PLACEMENTS 2 SHALL NOT BE MADE UNTIL CONCRETE IN ADJACENT PLACEMENT 1 AREAS HAS BEEN IN PLACE AT LEAST 48 HOURS. SET RETARDANT SHALL NOT BE USED IF THE ATMOSPHERIC TEMPERATURE AT THE TIME OF PLACEMENT IS LESS THE 60° F.
 - CONCRETE ON CANTILEVER PORTIONS OF BRIDGE DECK I.E. OUTSIDE OF BEAM LINES 1 & 11 NEED NOT BE MACHINE SCREEDED. THE CONTRACTOR MAY HAND SCREED THESE AREAS IF HE SO CHOOSES.

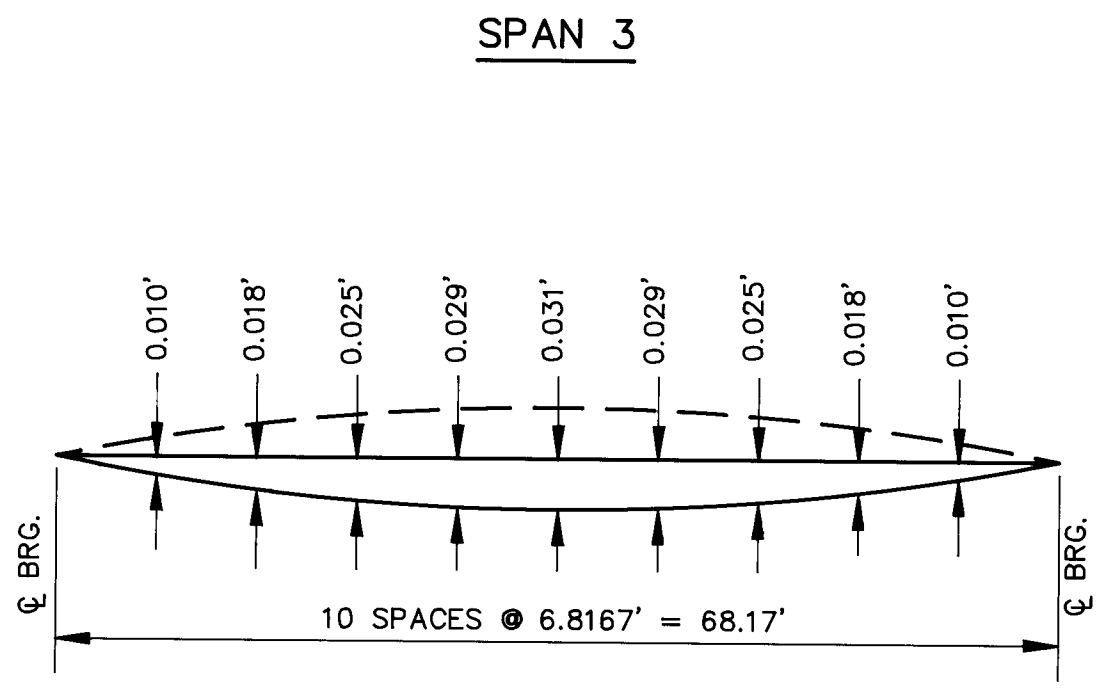


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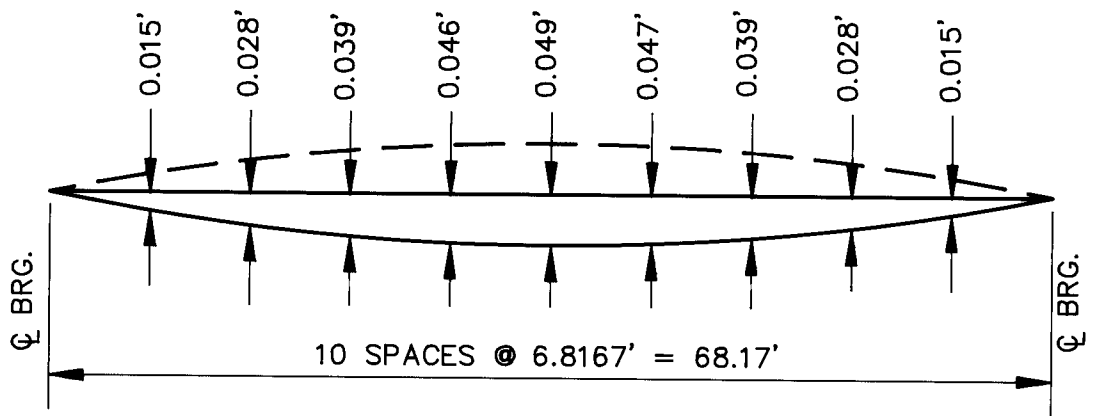
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE TOP OF SLAB ELEVATIONS SPANS 1&2					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>B.G. Haskins</i>	3-1-93	Water		
Transportation	<i>W.D. Haskins</i>	6-17-92	Waste Water		
Hydrology					
DRAWING	4018.90	MAP NO. K-T4	SHEET	18 NO. 47	



CL BRG. SPAN NO. 2
STA. 4+80.917
CL PIER NO. 2
STA. 4+81.500
CL BRG. SPAN NO. 3
STA. 4+82.083

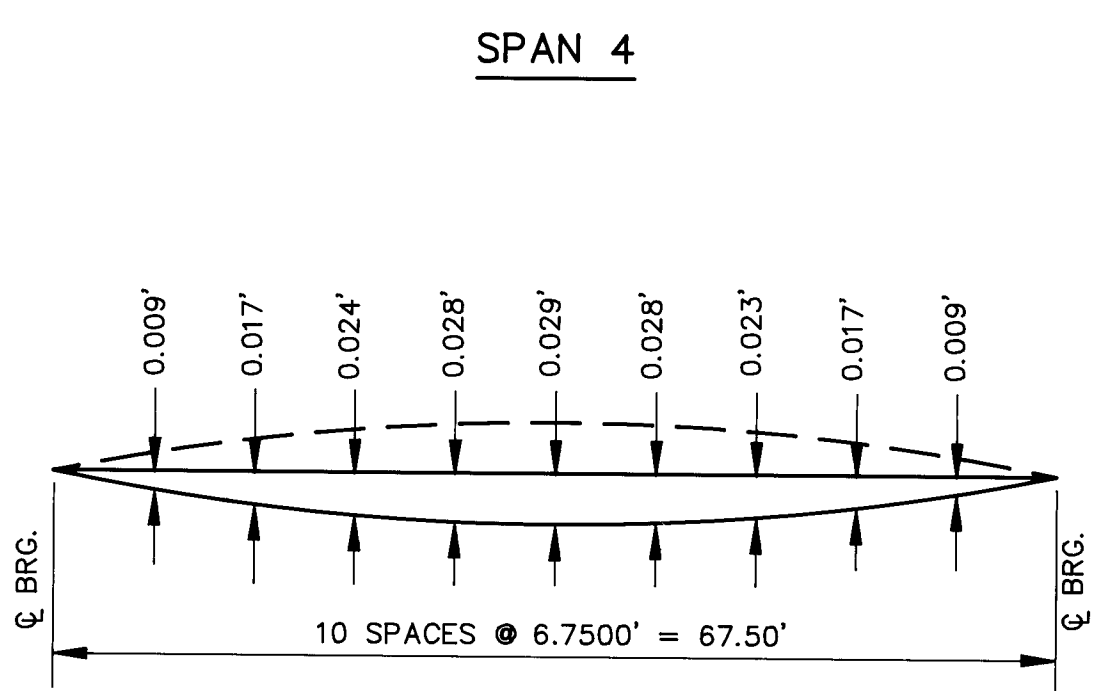


DEAD LOAD DEFLECTION DIAGRAM BEAMS 2 THRU 10
(DISTANCE ALONG SLOPE)

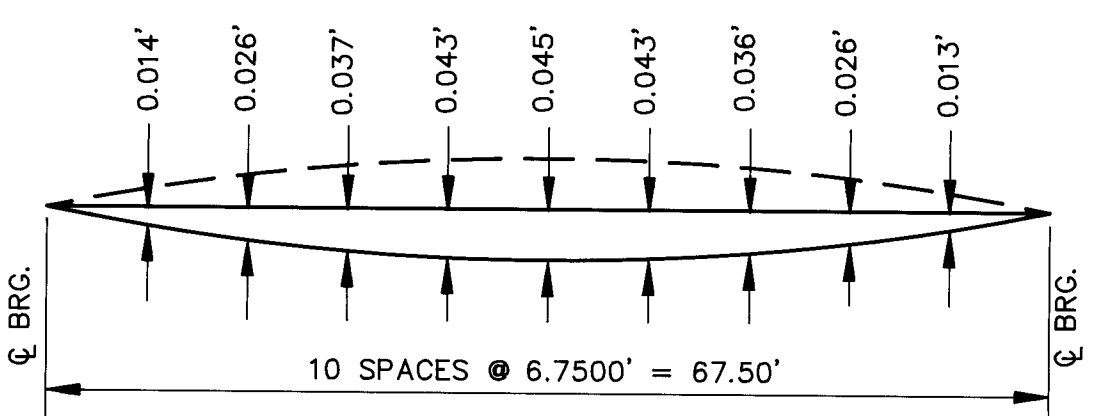


DEAD LOAD DEFLECTION DIAGRAM BEAMS 1 & 11
(DISTANCE ALONG SLOPE)

CL BRG. SPAN NO. 3
STA. 5+50.250
CL PIER NO. 3
STA. 5+50.833
CL BRG. SPAN NO. 4
STA. 5+51.417



DEAD LOAD DEFLECTION DIAGRAM BEAMS 2 THRU 10
(DISTANCE ALONG SLOPE)



DEAD LOAD DEFLECTION DIAGRAM BEAMS 1 & 11
(DISTANCE ALONG SLOPE)

TOP OF DECK ELEVATIONS SPANS 3&4

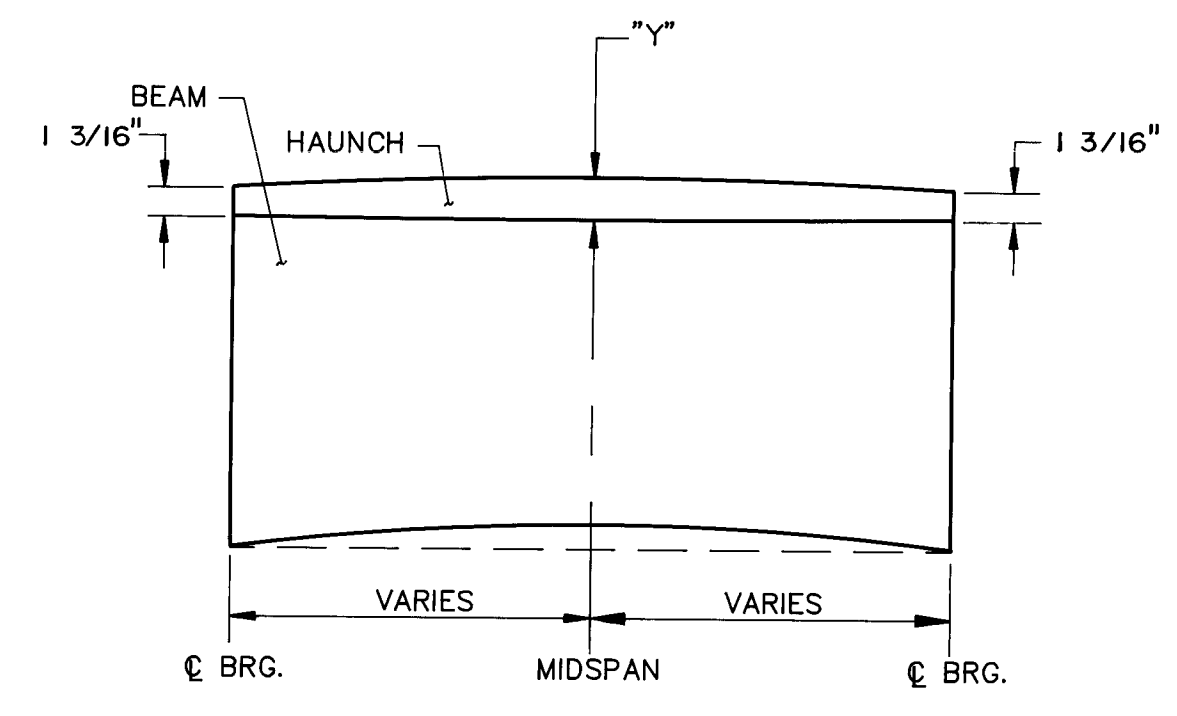
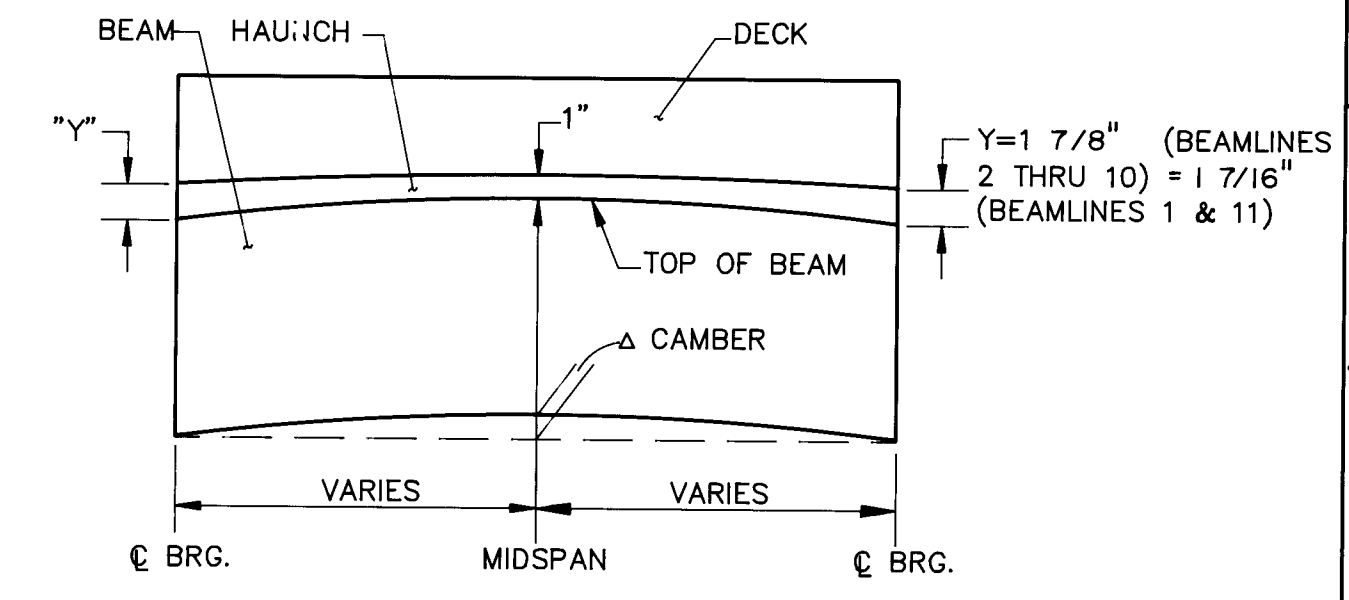


TABLE OF "Y" DIMENSIONS		
BEAM	DIMENSIONS BEAMLINES 2-10	DIMENSIONS BEAMLINES 1&11
2	2 3/8"	2 11/16"
3	2 1/4"	2 1/2"
4	2 3/16"	2 3/8"
5	2 9/16"	2 15/16"
6	2 1/8"	2 5/16"
7	2 9/16"	2 15/16"
8	2 3/8"	2 13/16"

DETAIL OF VARIABLE HAUNCH DIMENSIONS
SPANS 2 THRU 8



DETAIL OF VARIABLE HAUNCH DIMENSIONS - SPAN 1

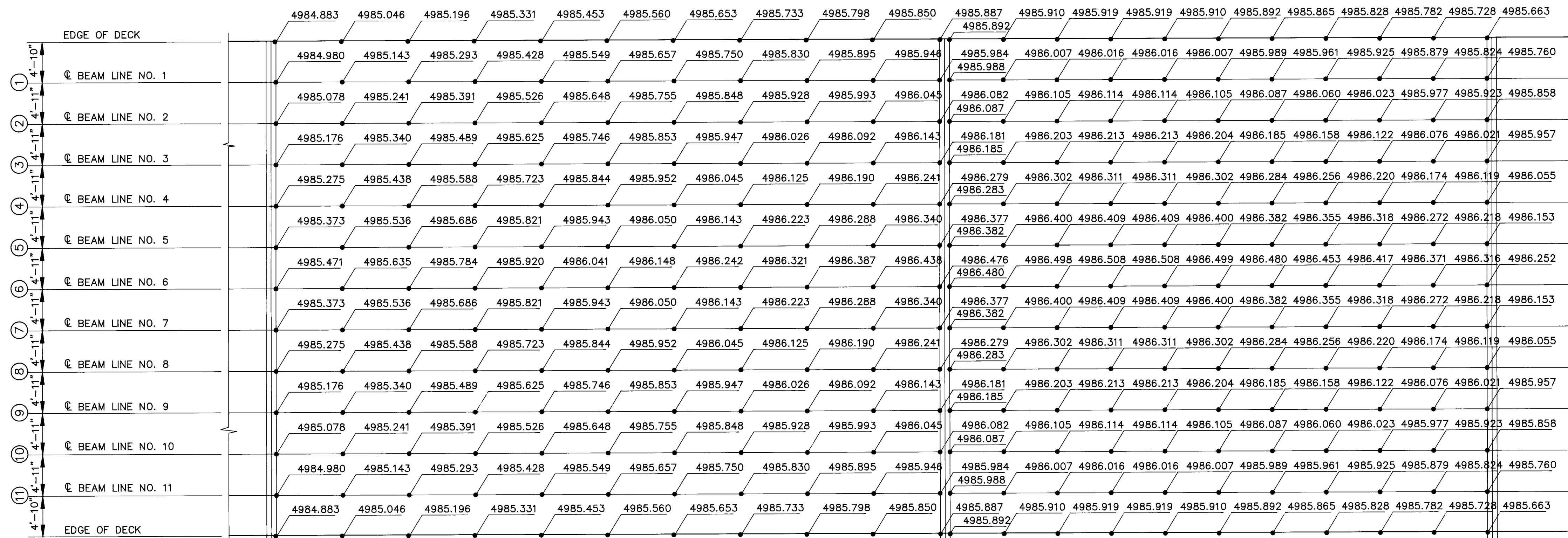
NOTE:
THE HAUNCH DIMENSION "Y" IS BASED UPON COMPUTED CAMBER AND DEAD LOAD DEFLECTION AT LOW EDGE OF THE BEAM. IF THE ACTUAL CAMBER DIFFERS FROM THE COMPUTED BEAM CAMBER, ADJUST THE DIMENSION ACCORDINGLY. SEE GENERAL NOTE 8 SHEET 5.
Y = ΔCAMBER - ΔDEF. - ΔELEV.(V.C.) + 1" (SPAN 1)
Y = ΔDEF + ΔELEV.(V.C.) - ΔDEF + 1" (SPANS 2 THRU 8)

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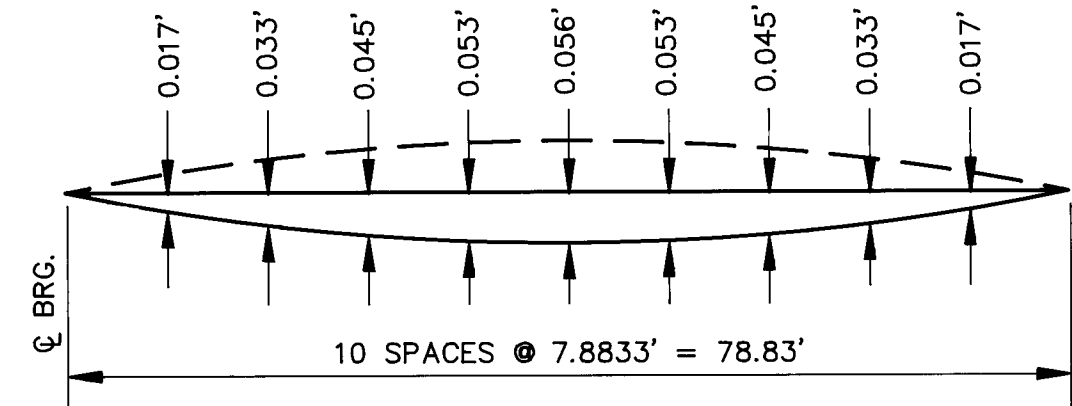
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Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040
3/24/94
DATE



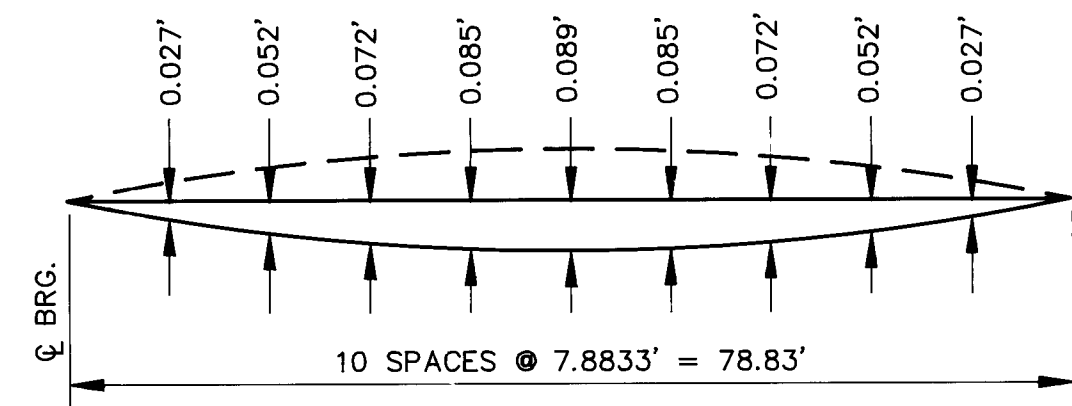
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE TOP OF DECK ELEVATIONS SPANS 3&4					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>B. J. Goodby</i>	3-1-93	Water		
Transportation	<i>N. J. RHP</i>	6-7-92	Waste Water	<i>N/A</i>	
Hydrology	<i>N/A</i>				
DRAWING NO.	4018.90	MAP NO. K-14	SHEET 19	NO. 47	



CL BRG. SPAN NO. 4
STA. 6+18.917
CL PIER NO. 4
STA. 6+19.500
CL BRG. SPAN NO. 5
STA. 6+20.083

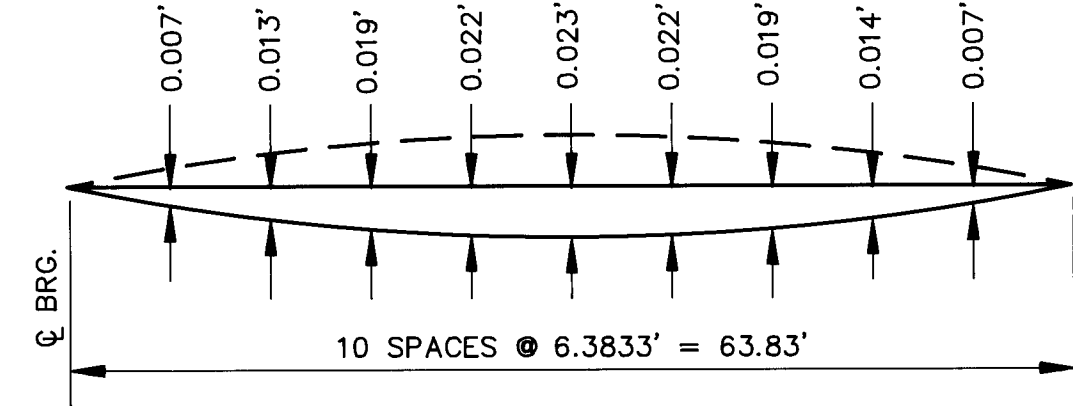


DEAD LOAD DEFLECTION DIAGRAM BEAMS 2 THRU 10
(DISTANCES ALONG SLOPE)

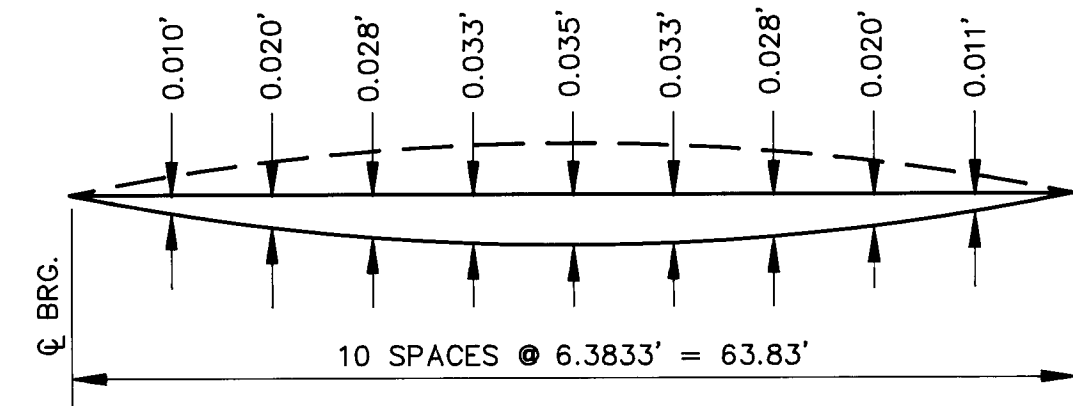


DEAD LOAD DEFLECTION DIAGRAM BEAMS 1 & 11
(DISTANCES ALONG SLOPE)

CL BRG. SPAN NO. 5
STA. 6+98.917
CL PIER NO. 5
STA. 6+99.500
CL BRG. SPAN NO. 6
STA. 7+00.083



DEAD LOAD DEFLECTION DIAGRAM BEAMS 2 THRU 10
(DISTANCES ALONG SLOPE)



DEAD LOAD DEFLECTION DIAGRAM BEAMS 1 & 11
(DISTANCES ALONG SLOPE)

TOP OF DECK ELEVATIONS SPANS 5&6

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

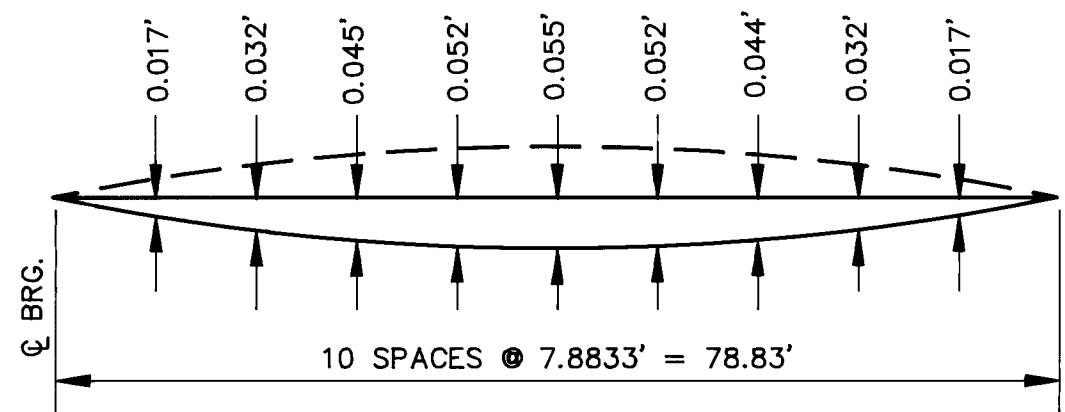
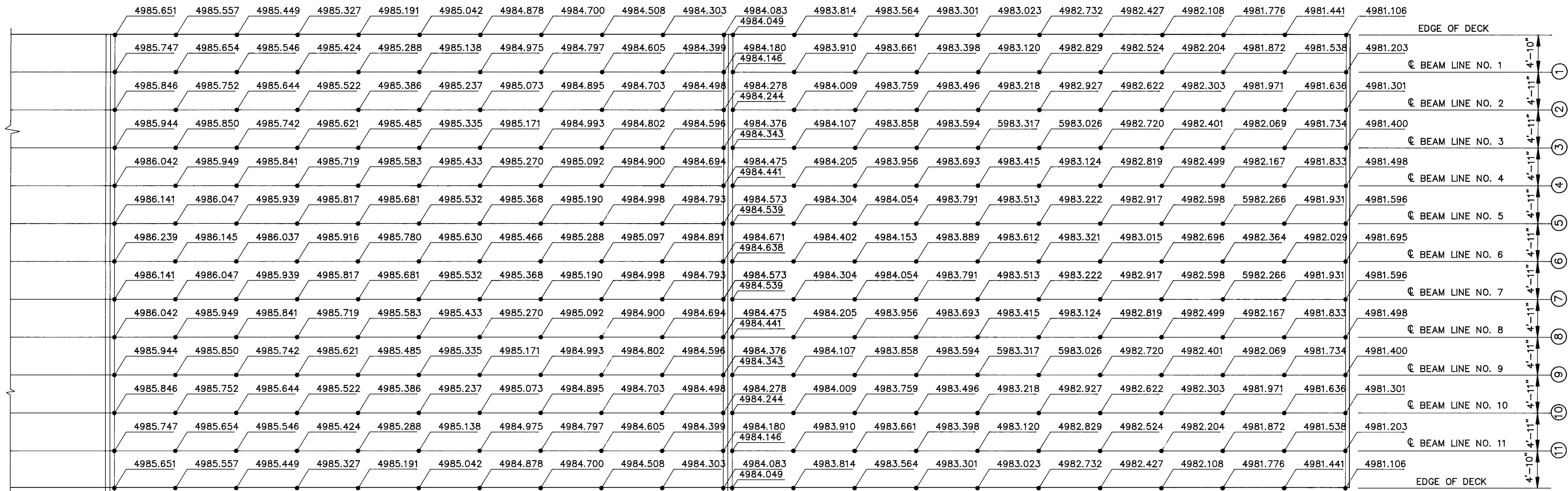
Carlos G. Padilla 3/24/99
CARLOS G. PADILLA, P.E. NO. 11040 DATE



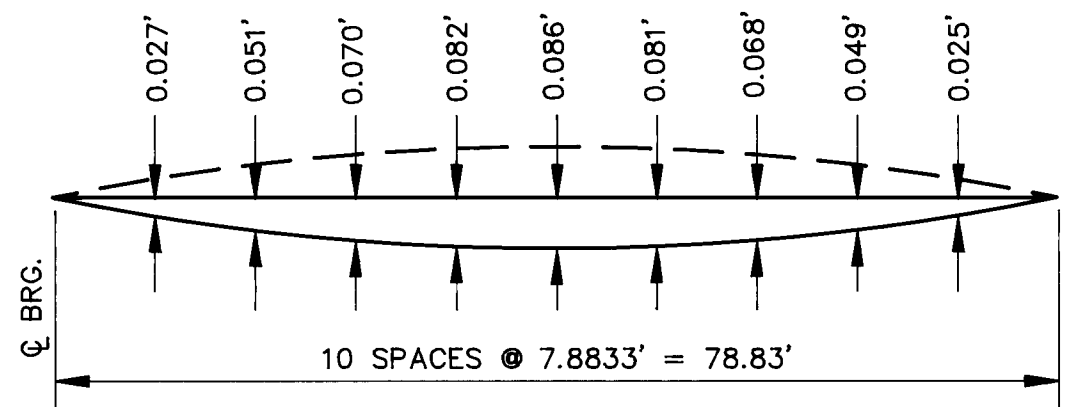
AVID ENGINEERING, INC.
Civil • Structural • Transportation
6100 Seagull St. NE - Suite 102
Albuquerque, NM 87109 - (505) 881-5357

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE TOP OF DECK ELEVATIONS SPANS 5&6					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>S.F. Gandy</i>	3-1-93	Water	<i>N/A</i>	
Transportation	<i>M.B. Rho</i>	6-17-92	Waste Water		
Hydrology	<i>N/A</i>				
DRAWING NO.	4018.90	MAP NO. K-14	SHEET 20	NO. 47	

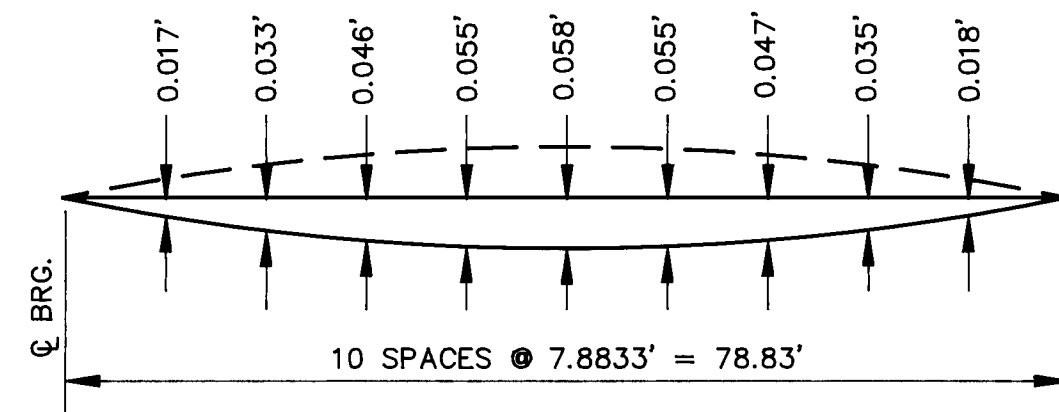
ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
	NO.	DATE	BY	FIELD NOTES	3"-K 14" ACS BRASS CAP (FOUND IN PLACE) NEW MEXICO STATE PLANE COORDINATE SYSTEM (CENTRAL ZONE) Y=1495,136.24 X=380,241.23 G-G=0.99967968 Δα = -00°13'48" ELEV.=4,950.564	CONTRACTOR	DATE
						WORK	DATE
						INSPECTOR'S	DATE
						ACCEPTANCE BY T. A.	DATE
						VERIFICATION BY	DATE
						DRAWINGS	DATE
						BY	DATE
						MICRO-FILM INFORMATION	DATE
						RECORDED BY	DATE
						NO.	NO.



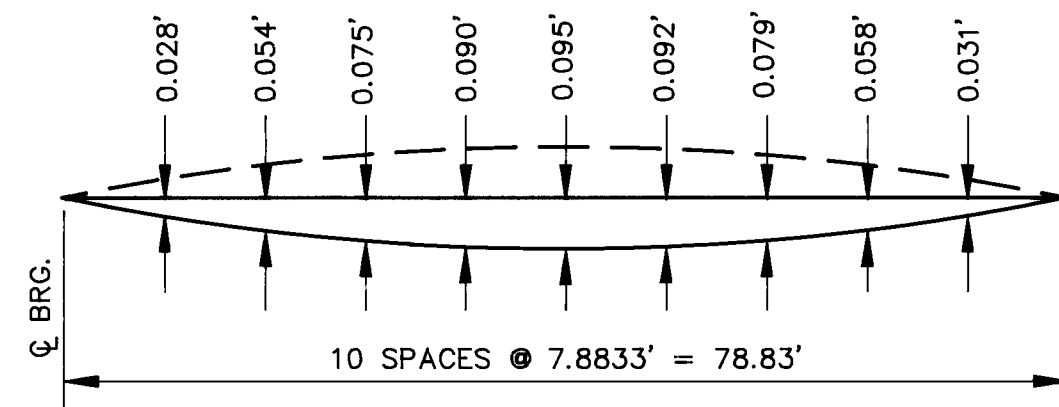
DEAD LOAD DEFLECTION DIAGRAM SPANS 2 THRU 10
(DISTANCES ALONG SLOPE)



DEAD LOAD DEFLECTION DIAGRAM SPANS 1 & 11
(DISTANCES ALONG SLOPE)



DEAD LOAD DEFLECTION DIAGRAM SPANS 2 THRU 10
(DISTANCES ALONG SLOPE)



DEAD LOAD DEFLECTION DIAGRAM SPANS 1 & 11
(DISTANCES ALONG SLOPE)

TOP OF DECK ELEVATIONS SPANS 7&8

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

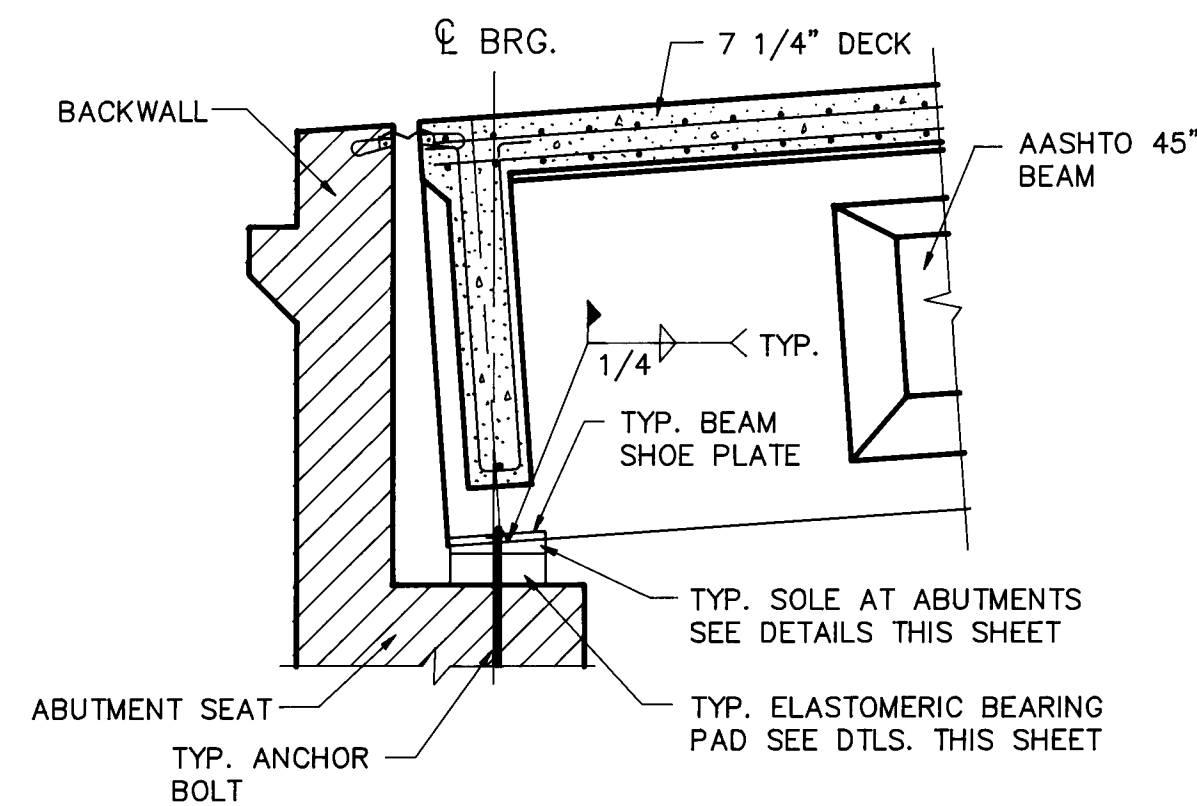
Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040
3/24/94
DATE



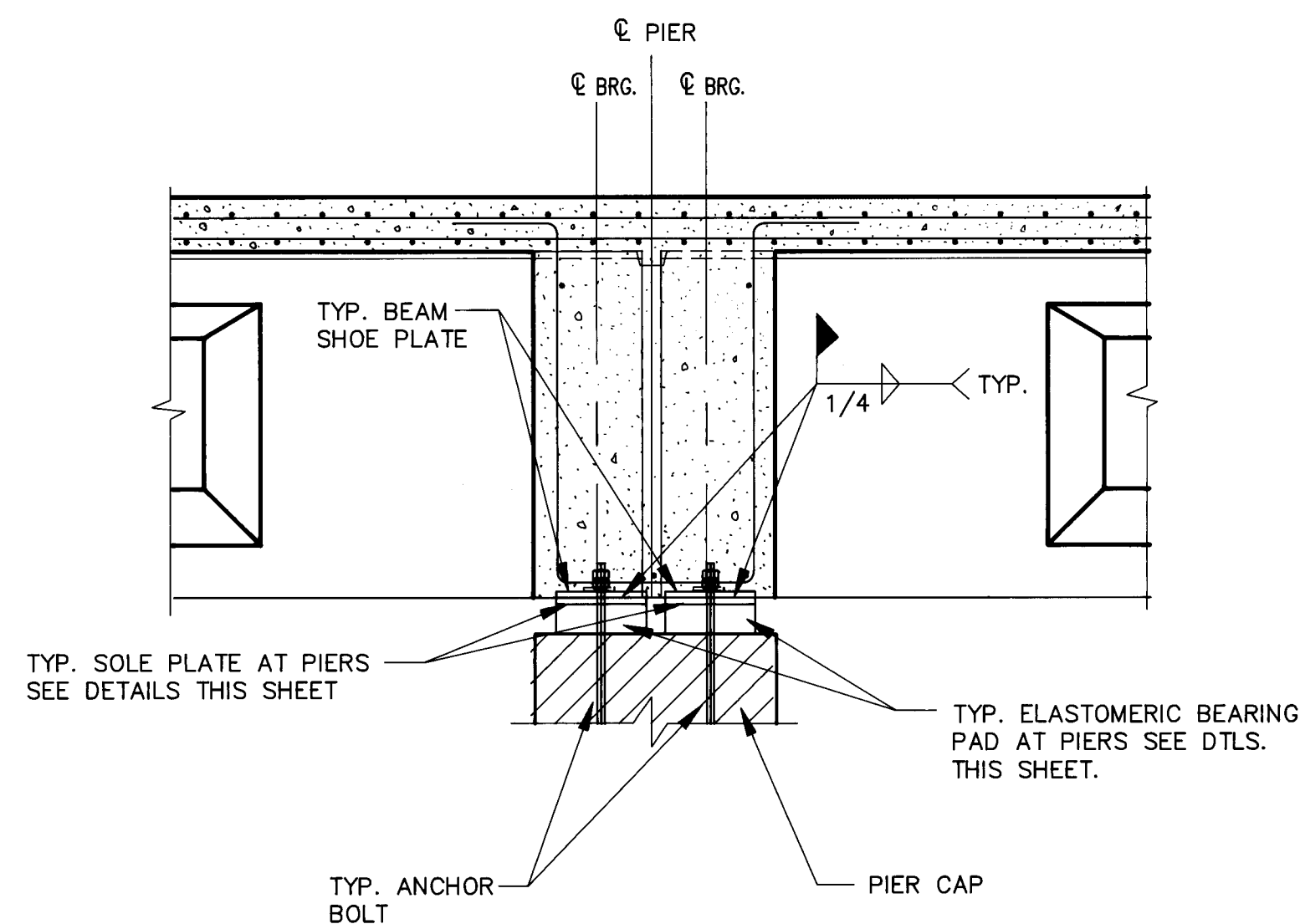
AVID ENGINEERING, INC.
Civil • Structural • Transportation
6100 Seagull St. NE - Suite 102
Albuquerque, NM 87109 - (505) 881-5357

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE TOP OF DECK ELEVATIONS SPANS 7&8					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>S.P. Gentry</i>	3-1-93	Water	<i>N/A</i>	
Transportation	<i>N/A</i>	6-7-94	Waste Water		
Hydrology	<i>N/A</i>				
DRAWING NO.	4018.90	MAP NO.	K-14	SHEET	21 NO. 47

ENGINEER'S SEAL			SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
			FIELD NOTES		"3-K 14" ACS BRASS CAP (FOUND IN PLACE)		CONTRACTOR: <i>Beckley & Shaw</i>	
			NO.	DATE	NEW MEXICO STATE PLANE COORDINATE SYSTEM	WORK SAVED BY: <i>R.S.N.</i>	WORK SAVED BY: <i>R.S.N.</i>	DATE: <i>3-1-93</i>
			1	10/90	(CENTRAL ZONE) Y=1,485,136.24 X=380,241.23	ACCEPTANCE BY: <i>TA</i>	ACCEPTANCE BY: <i>TA</i>	DATE: <i>3-1-93</i>
				ALBUQUERQUE SURVEYING CO. INC.	G-G=0.99967968 Δα = -00°13'48"	FIELD LOCATION BY: <i>TA</i>	FIELD LOCATION BY: <i>TA</i>	DATE: <i>3-1-93</i>
					ELEV.=4,950.564	DRAWINGS CORRECTED BY: <i>TA</i>	DRAWINGS CORRECTED BY: <i>TA</i>	DATE: <i>3-1-93</i>
						MICRO-FILM INFORMATION		
						RECORDED BY: <i>TA</i>	RECORDED BY: <i>TA</i>	DATE: <i>3-1-93</i>
								NO.



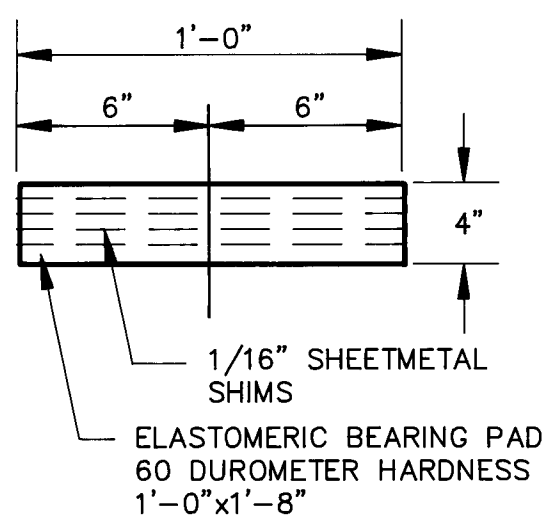
ELEVATION AT ABUTMENT



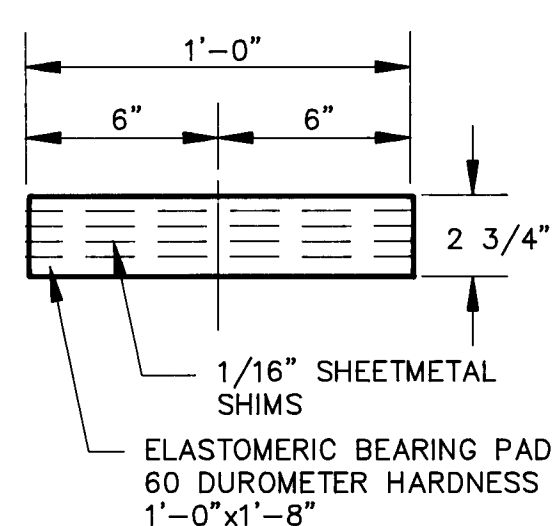
ELEVATION AT PIER

BEARING INFORMATION TABLE

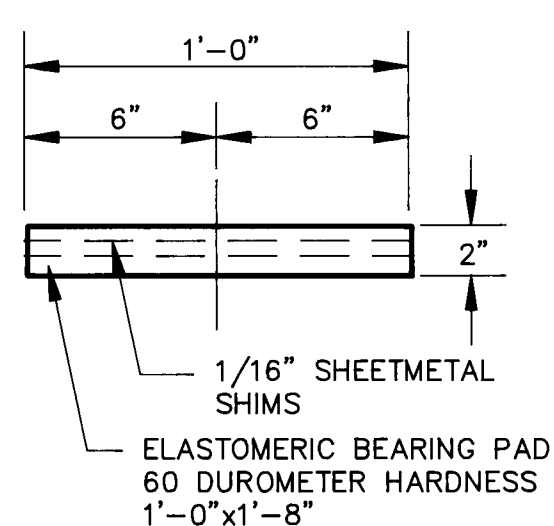
LOCATION	NO. LAMS	LAM. THICKNESS	NO. SHIMS	TOTAL THICKNESS	DEFLEC. DUE TO DL	COMP. THICK UNDER DL	DES DL KIPS	DES LL KIPS
ABUT. 1 & 2	5	3/4"	4	4"	1/16"	3 15/16"	45	30
PIERS 1 & 7	5	1/2"	4	2 3/4"	1/16"	2 11/16"	55	15
PIERS 2 & 6	3	5/8"	2	2"	1/16"	1 15/16"	52	14
PIERS 3 & 5	2	1/2"	1	2 1/16"	0"	2 1/16"	53	14
PIER NO. 4	2	1/2"	1	2 1/16"	0"	2 1/16"	53	15



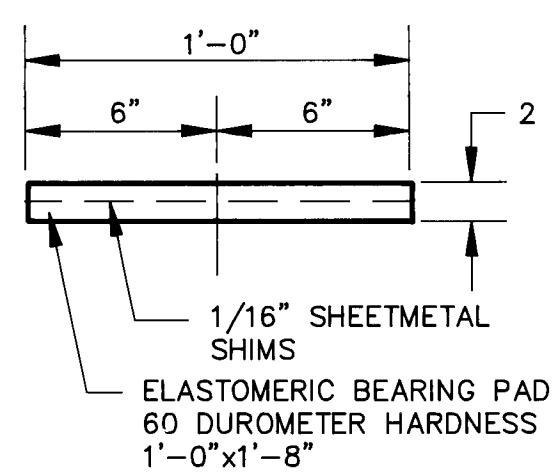
ELASTOMERIC BEARING PAD DETAIL
AT ABUT. #1 & 2



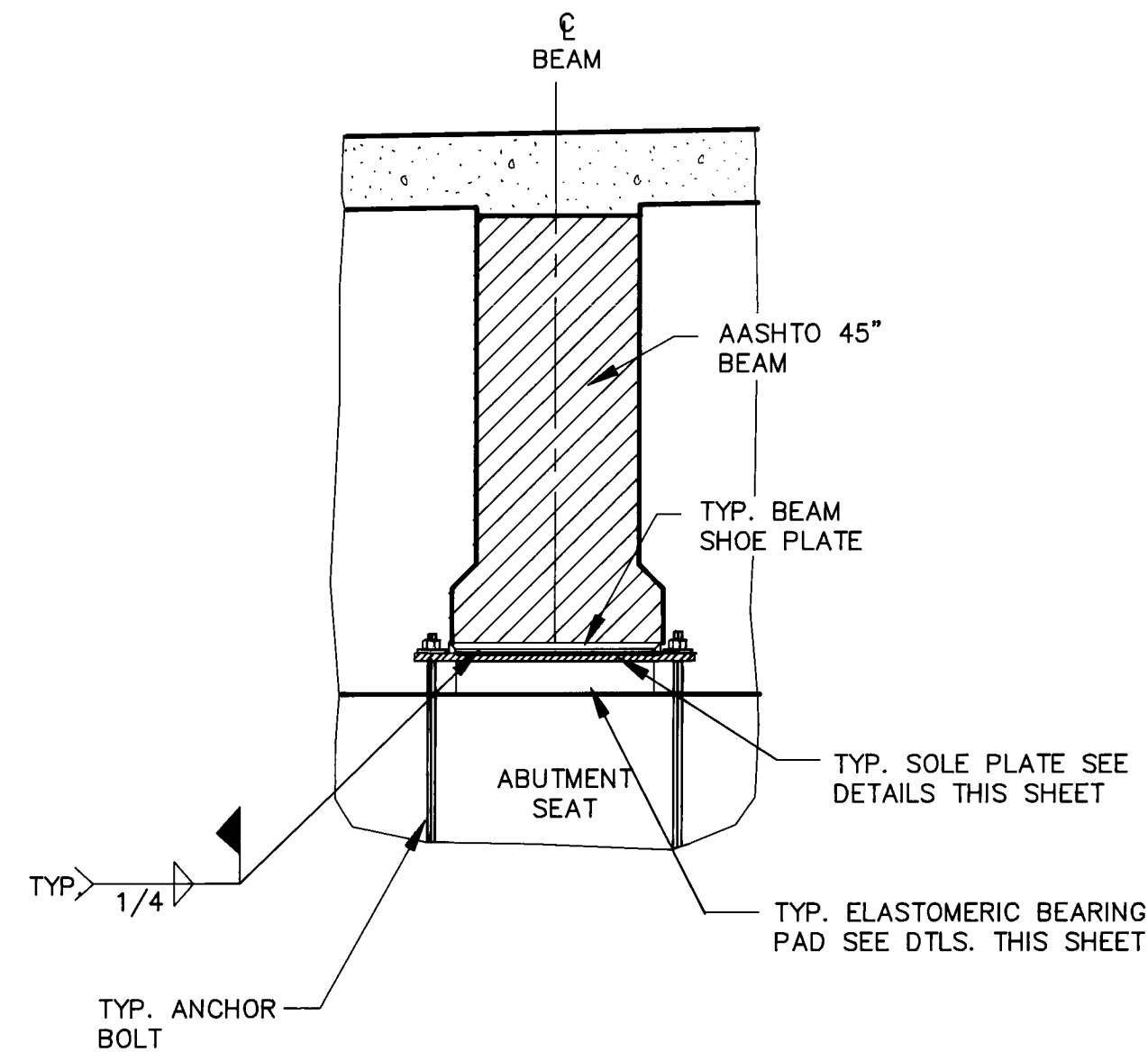
ELASTOMERIC BEARING PAD DETAIL
AT PIERS 1 & 7



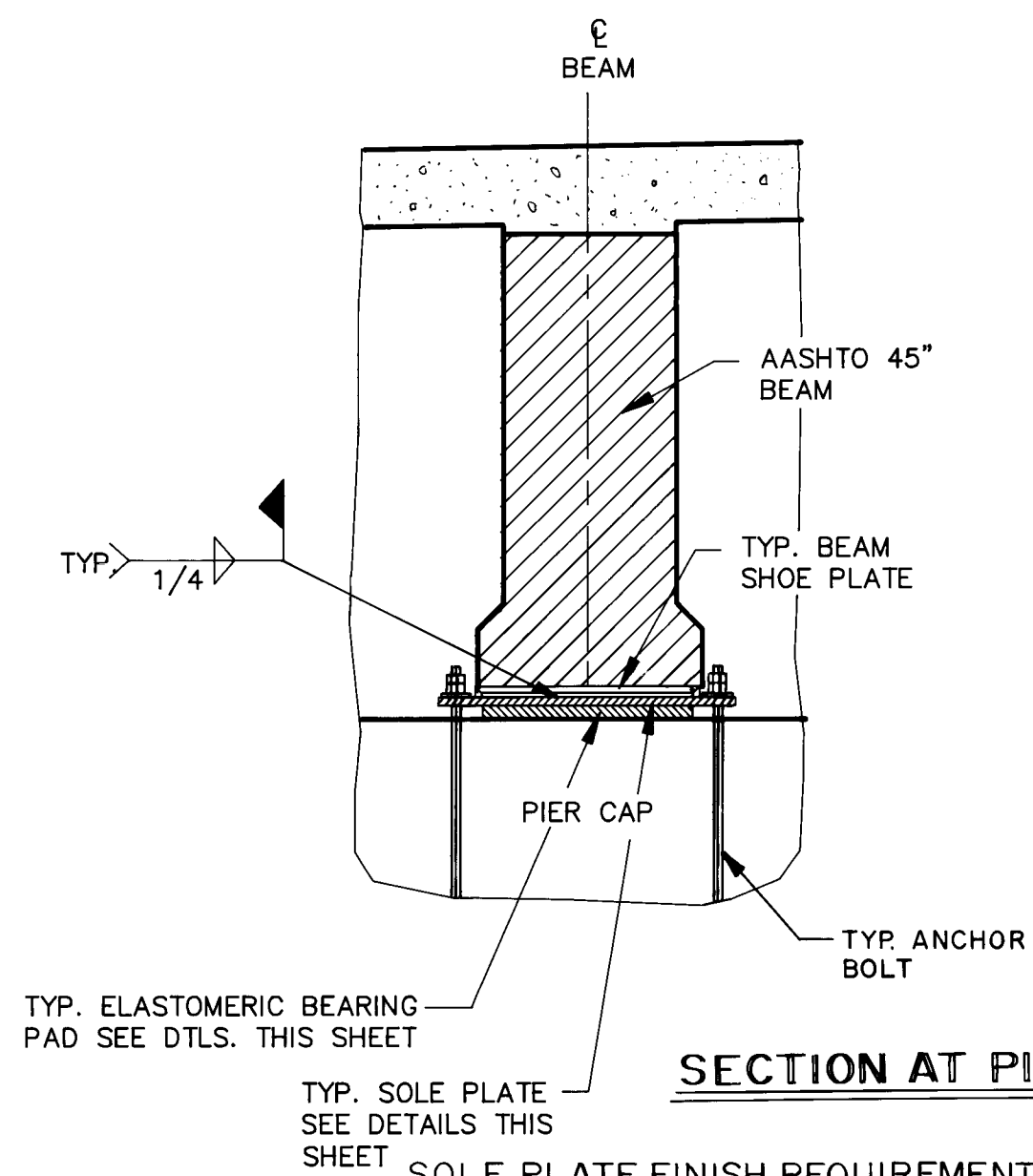
ELASTOMERIC BEARING PAD DETAIL
AT PIERS 2 & 6



ELASTOMERIC BEARING PAD DETAIL
AT PIERS 3, 4 & 5



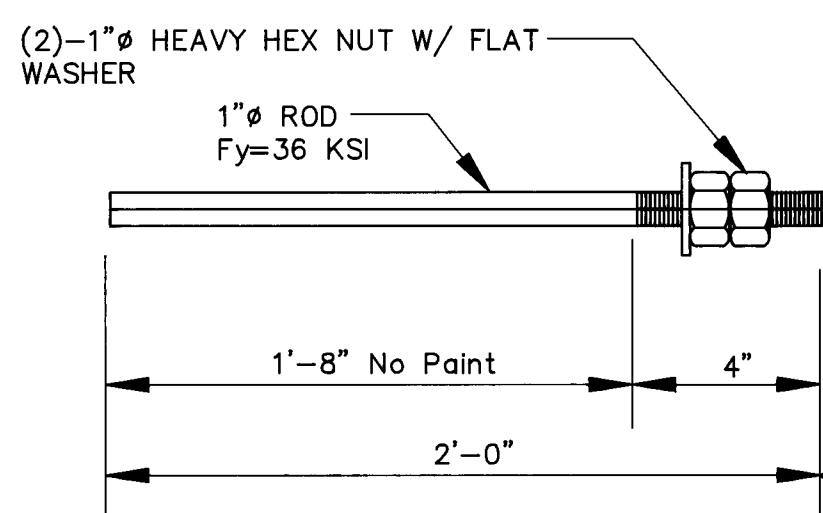
SECTION AT ABUTMENTS



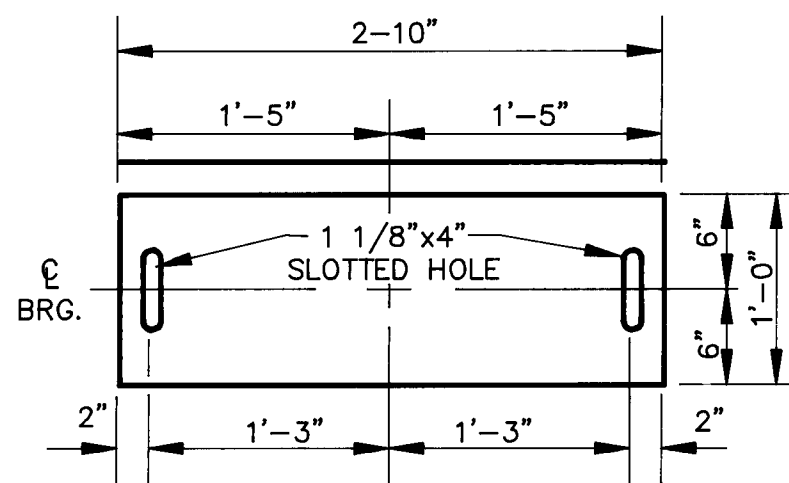
SECTION AT PIERS

SOLE PLATE FINISH REQUIREMENTS

- (1) Top and bottom surfaces of sole plates shall be flat within 0.030 inches total indicator reading. Surface finishes shall be ANSI 1000 or better. The plate thickness is the finished thickness.
- (2) If machining processes are used to achieve the required flatness tolerances of the sole plates, the direction of machining on the surface to be in contact with the elastomeric pad shall be perpendicular to the longitudinal axis of the beams.
- (3) Sole plates shall be delivered to the job site with one coat of primer applied to all surfaces except for masked-off strips where the sole plates will be welded to the shoe plates of the prestressed beams and the surfaces to be in contact with elastomeric bearing pad. Before installation, surfaces to be in contact with the pads shall be cleaned to SSPC-SP 6 requirements and sand blasted to provide a slip resistant surface. After installing the pad and welding the sole plate to the shoe plates, the Contractor shall touch up the primer and apply the top coat to all exposed surfaces.

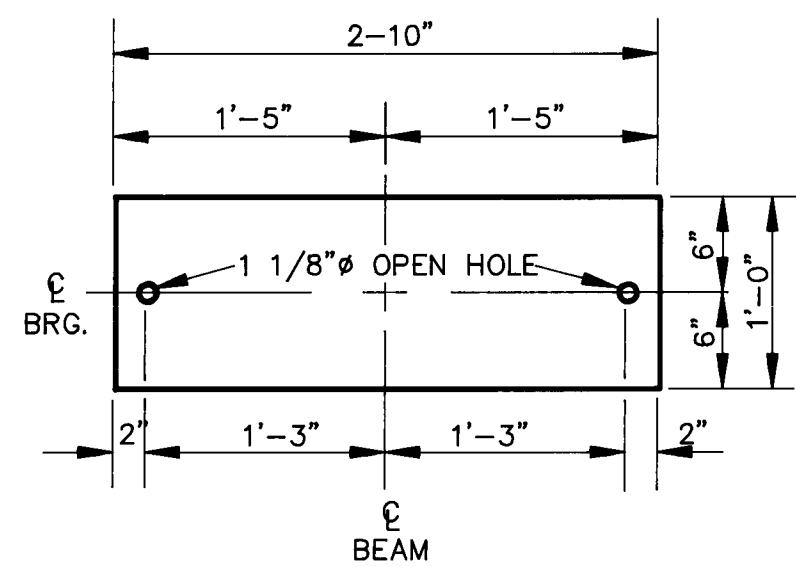


ANCHOR BOLT DETAIL



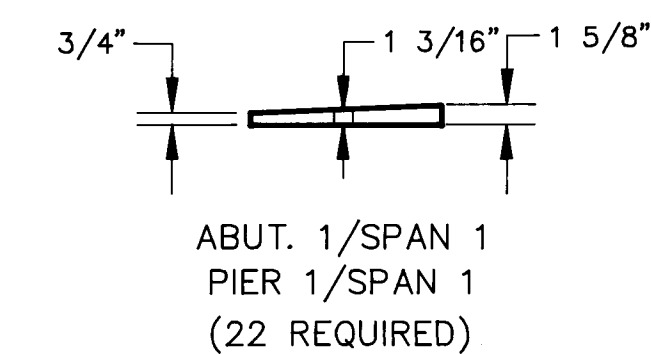
SOLE PLATE DETAIL

(AT ABUTS. 1 & 2 AND
PIERS 1 THRU 3 & 5 THRU 7)

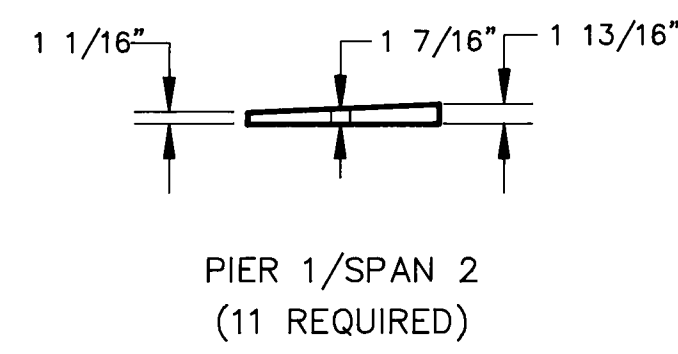


SOLE PLATE DETAIL

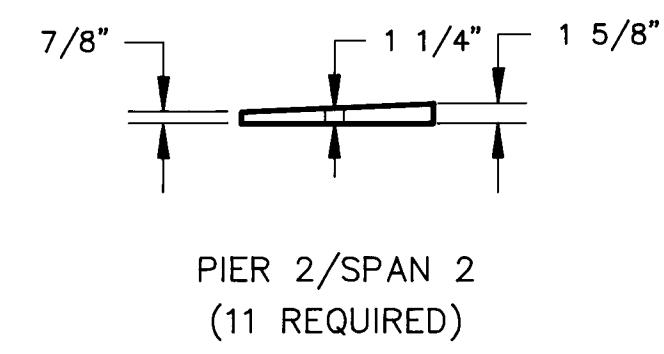
(@ PIER NO. 4)



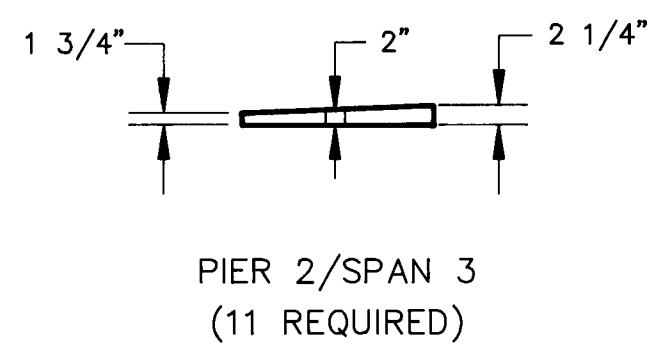
ABUT. 1/SPAN 1
PIER 1/SPAN 1
(22 REQUIRED)



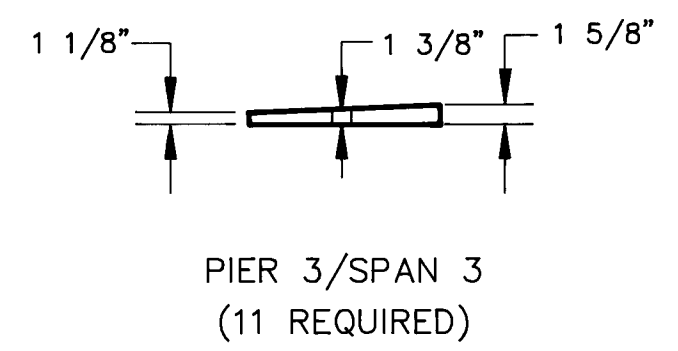
PIER 1/SPAN 2
(11 REQUIRED)



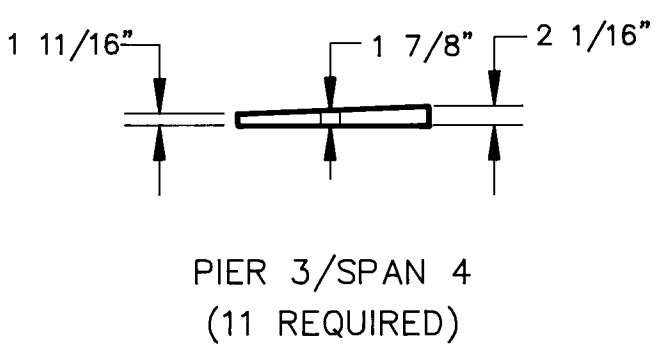
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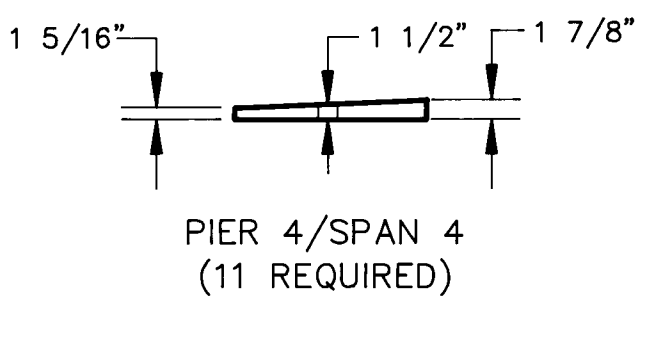
PIER 2/SPAN 3
(11 REQUIRED)



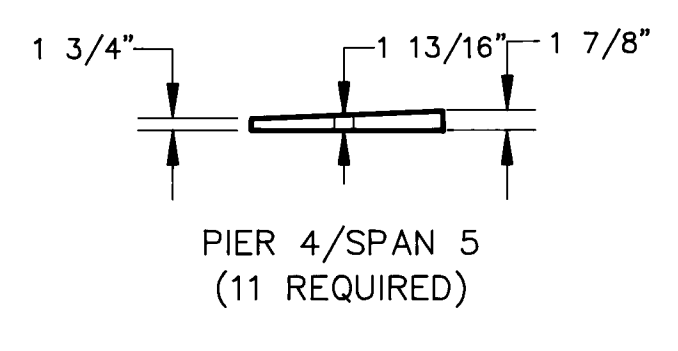
PIER 3/SPAN 3
(11 REQUIRED)



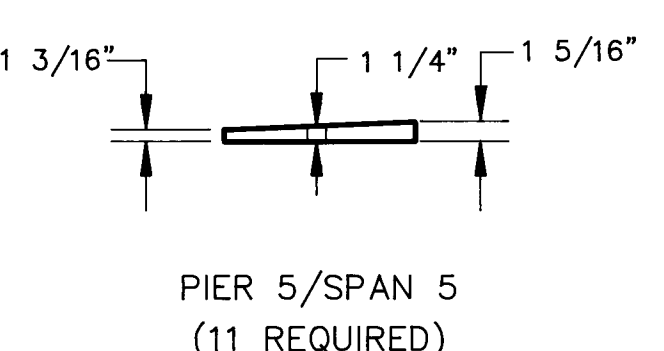
PIER 3/SPAN 4
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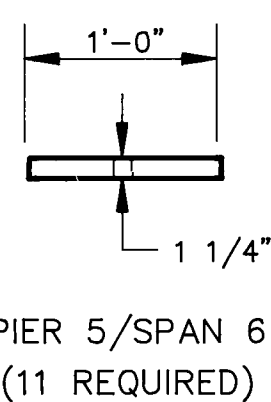
PIER 4/SPAN 4
(11 REQUIRED)



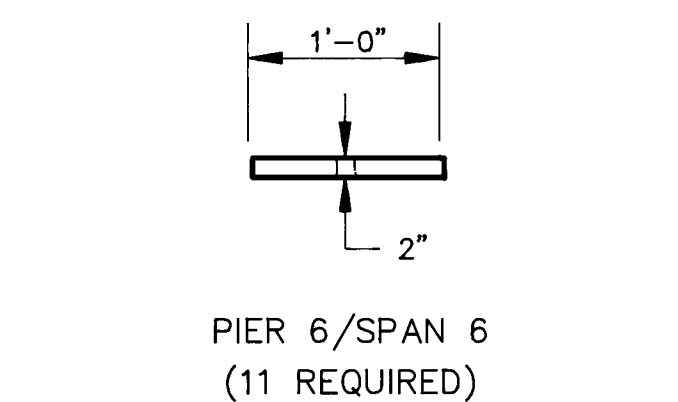
PIER 4/SPAN 5
(11 REQUIRED)



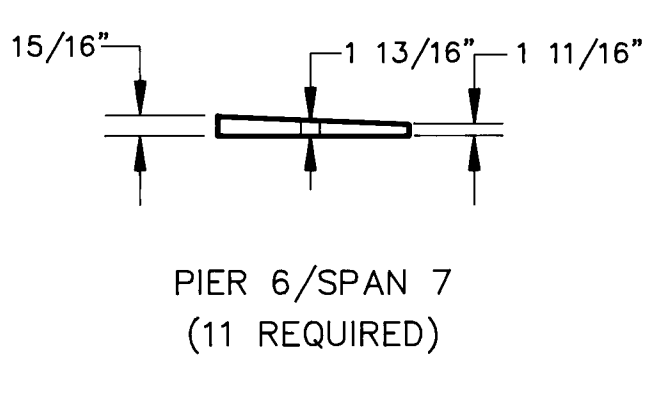
PIER 5/SPAN 5
(11 REQUIRED)



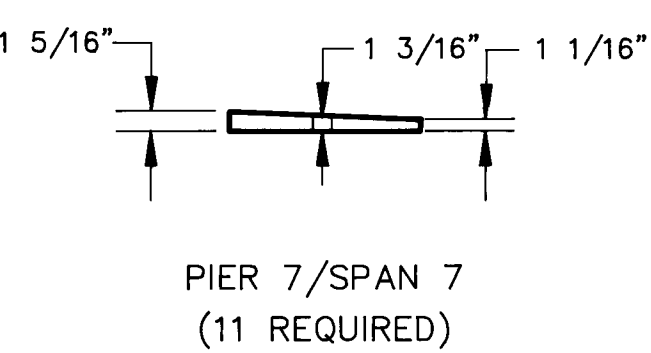
PIER 5/SPAN 6
(11 REQUIRED)



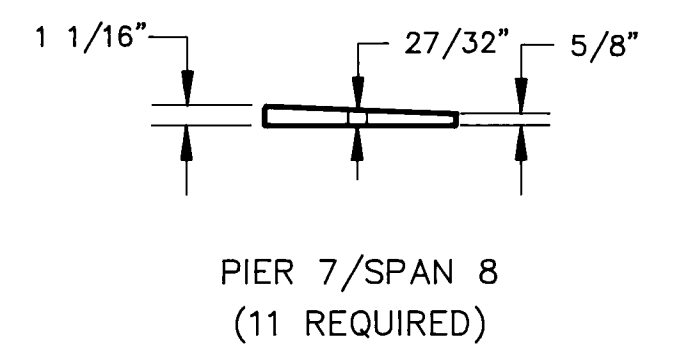
PIER 6/SPAN 6
(11 REQUIRED)



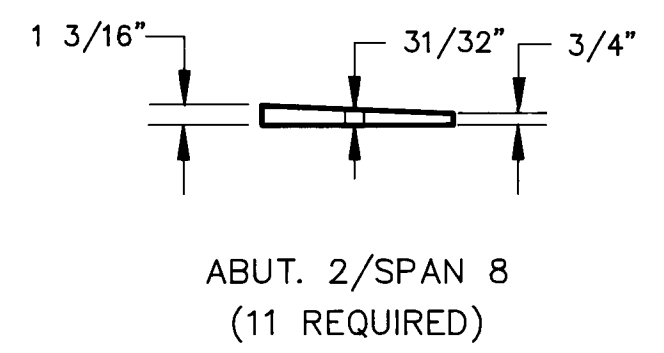
PIER 6/SPAN 7
(11 REQUIRED)



PIER 7/SPAN 7
(11 REQUIRED)



PIER 7/SPAN 8
(11 REQUIRED)



ABUT. 2/SPAN 8
(11 REQUIRED)

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

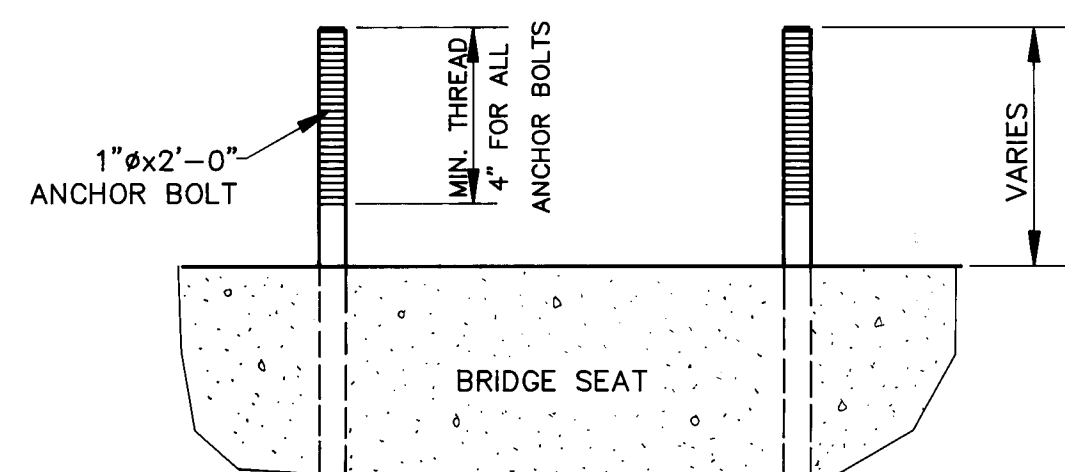
Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040

3/21/94
DATE



AVID ENGINEERING, INC.
Civil • Structural • Transportation
6100 Seagull St. NE - Suite 102
Albuquerque, NM 87109 - (505) 881-5357

26 4018.902295

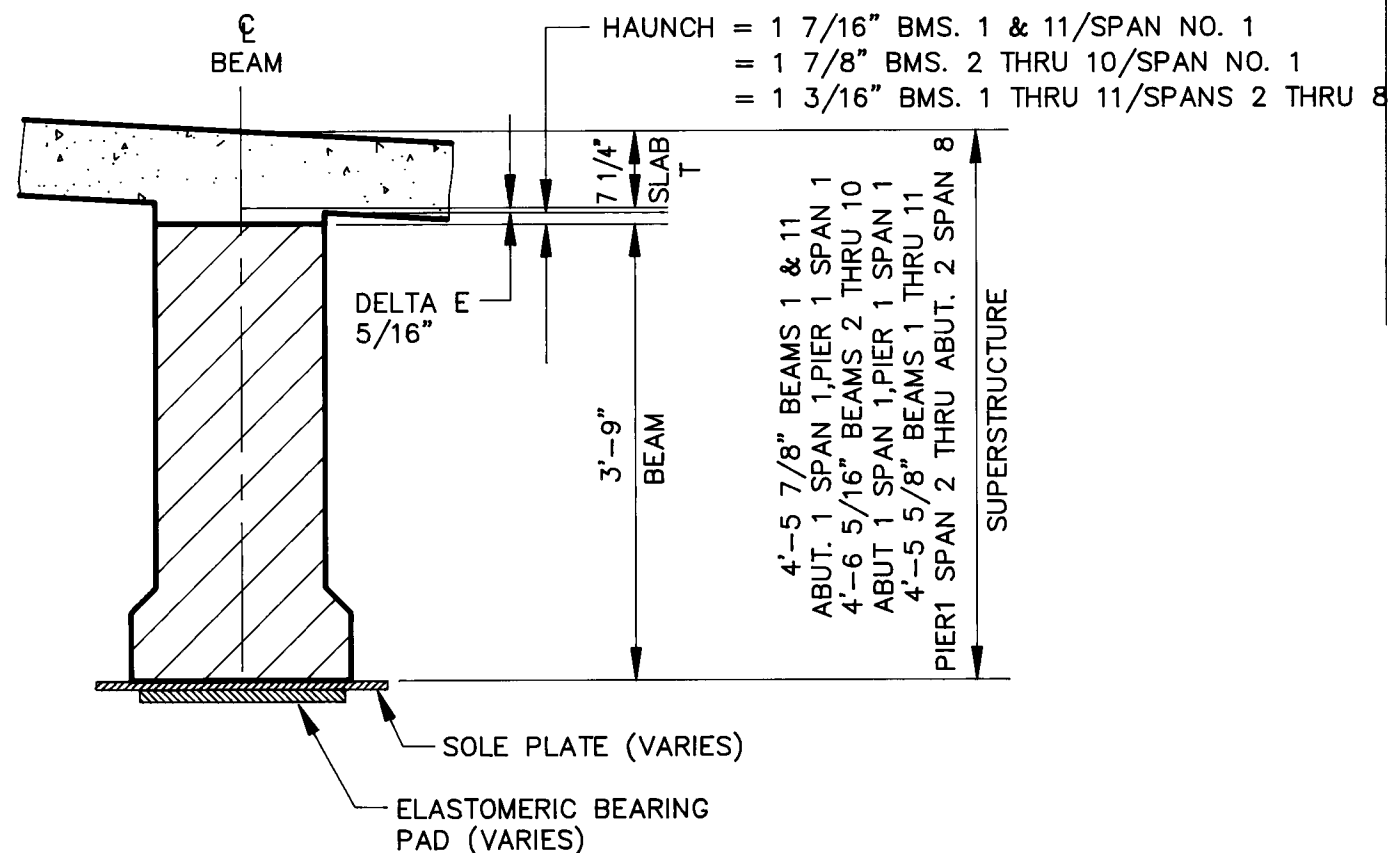


ANCHOR BOLT PROJECTION

AS BUILT INFORMATION CONTRACTOR: <i>Padilla & Padilla</i> STATED BY: <i>B. S. N.</i> DATE: <i>3-21-94</i> ACCEPTANCE BY: <i>T. A.</i> DATE: <i>3-21-94</i> DRAWINGS CORRECTED BY: <i>DATE</i> ELEV.=4,950.564		BENCH MARKS "3-K 14" ACS BRASS CAP (FOUND IN PLACE) NEW MEXICO STATE PLANE COORDINATE SYSTEM (CENTRAL ZONE) Y=1,485,136.24 X=380,241.23 G-G=0.99967968 Δα = -00°13'48" ELEV.=4,950.564	
SURVEY INFORMATION FIELD NOTES NO. 1 BY ALBUQUERQUE SURVEYING CO. INC. DATE 10/90		ENGINEER'S SEAL 	
REMARKS NO. DATE DESIGNED BY: CP DRAWN BY: RLBN CHECKED BY: CP		DESIGN DATE 11/91 DATE 11/91 DATE 11/91	

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP				
TITLE: LEAD AVENUE BRIDGE BEAM SEAT DETAILS				
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER
D.R.C. Chair	<i>26 4018.902295</i>	3-21-93	Water	<i>11/11</i>
Transportation	<i>11/11</i>	6-11-92	Waste Water	
Hydrology				
DRAWING NO.	4018.90	MAP NO. K-14	SHEET 22 NO. 47	

SEAT ELEVATIONS

[illegible]

SUPERSTRUCTURE DEPTH DETAIL

THEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040

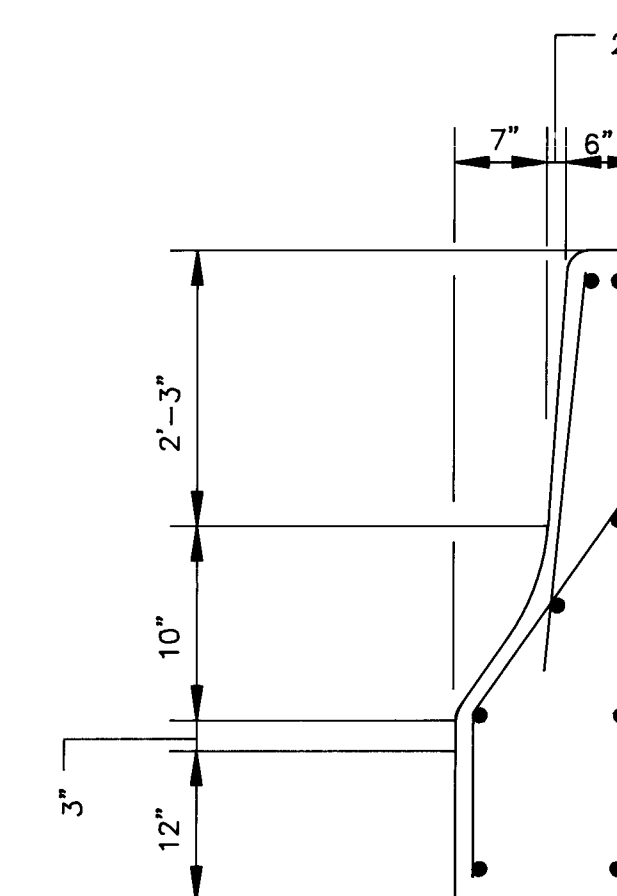
3/24/9
DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:	LEAD AVENUE BRIDGE BRIDGE SEAT ELEVATIONS
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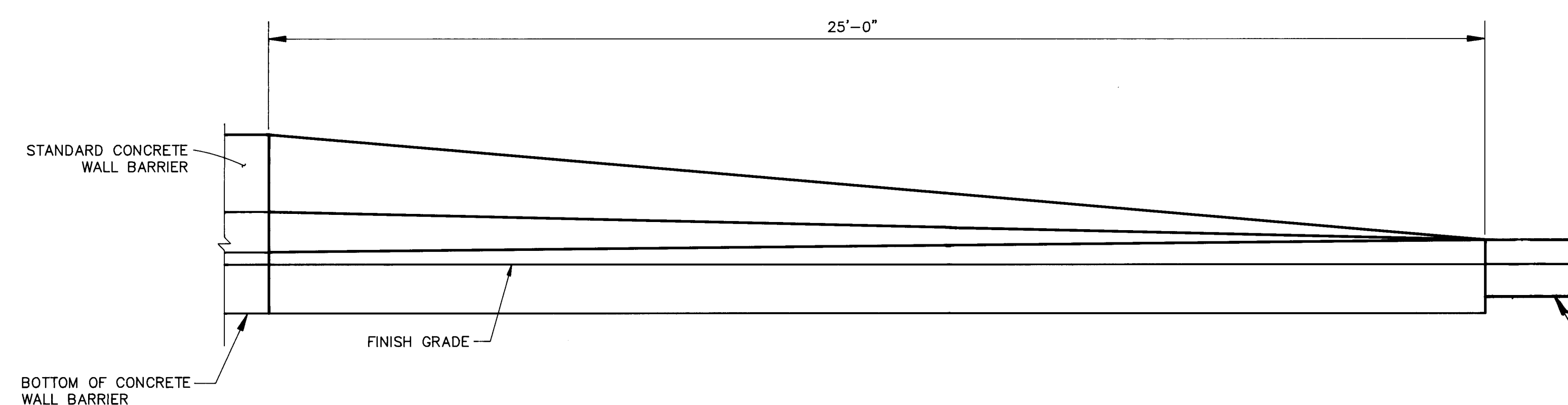
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>B. J. Gaskin</i>	3-1-93	Water	<i>N/A</i>	
Transportation	<i>MA RHD</i>	6-17-92	Waste Water		
Hydrology	<i>NA</i>				

DRAWING NO.	4018.90	MAP NO.	K-14	SHEET NO.	23 47
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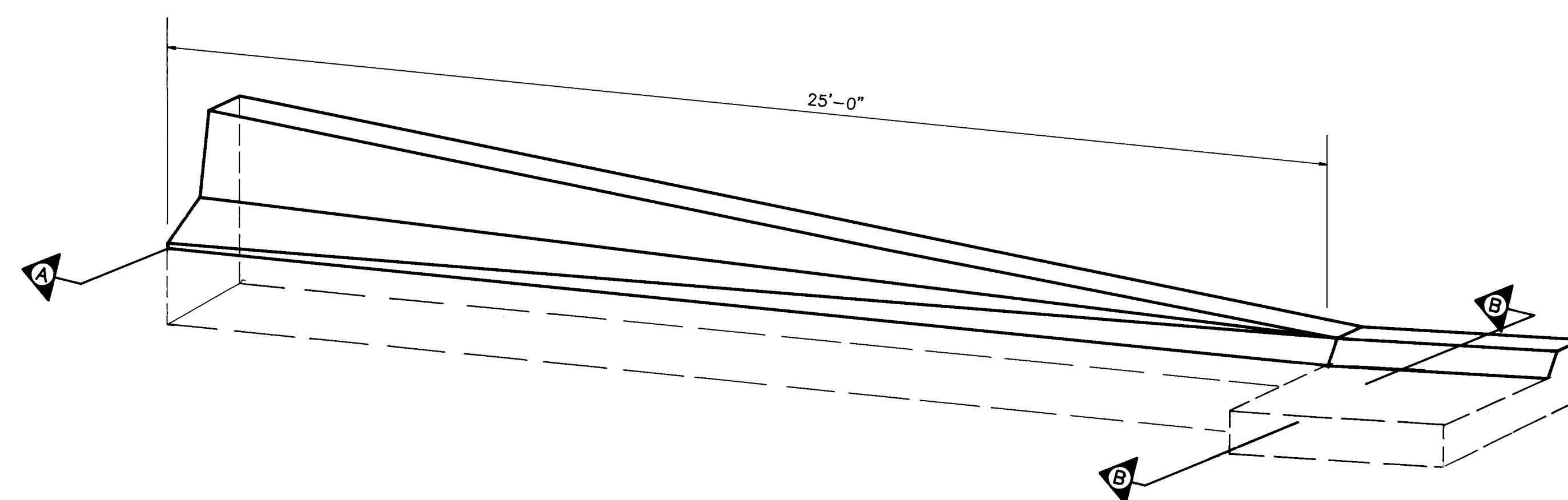


SECTION A-A

PLAN - CONCRETE BARRIER RAILING TO PINNED CURB TRANSITION

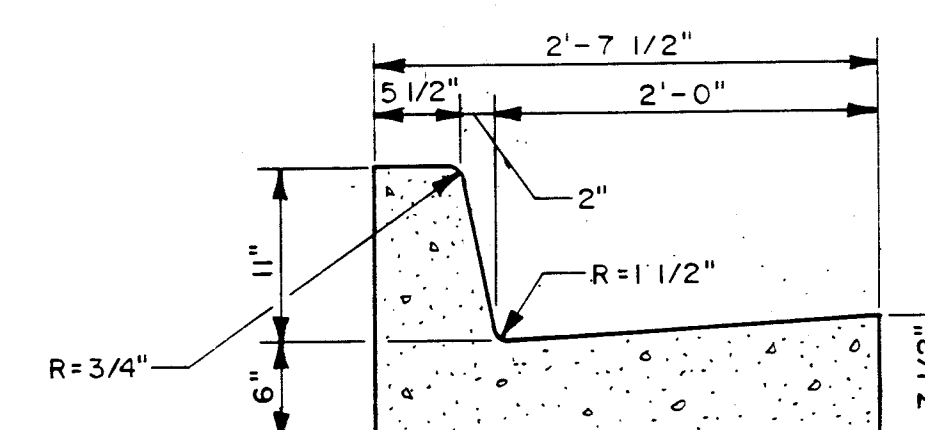


ELEV.- CONCRETE BARRIER RAILING TO CURB & GUTTER TRANSITION



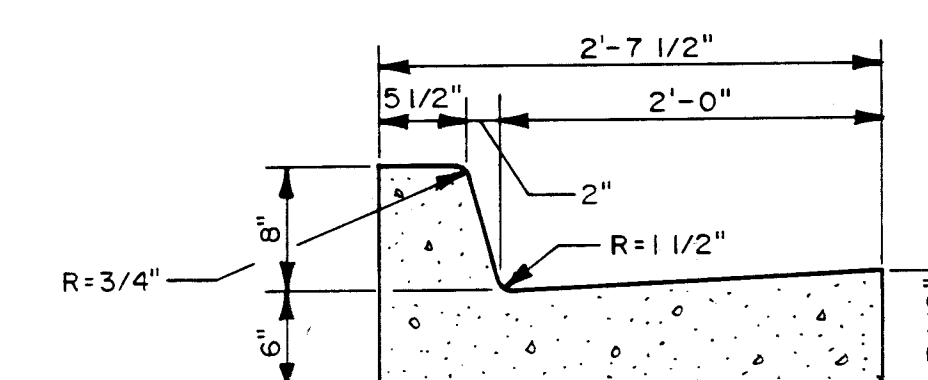
CONCRETE BARRIER RAILING TRANSITION DETAIL

NOT TO SCALE



MODIFIED CURB & GUTTER

MODIFIED CURB & GUTTER STA. 13+00-STA. 13+30



STANDARD CURB & GUTTER

STANDARD CURB & GUTTER STA. 0+67.17 AND TEMPORARY
TRANSITION WEST.

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

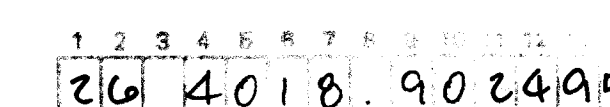
Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040



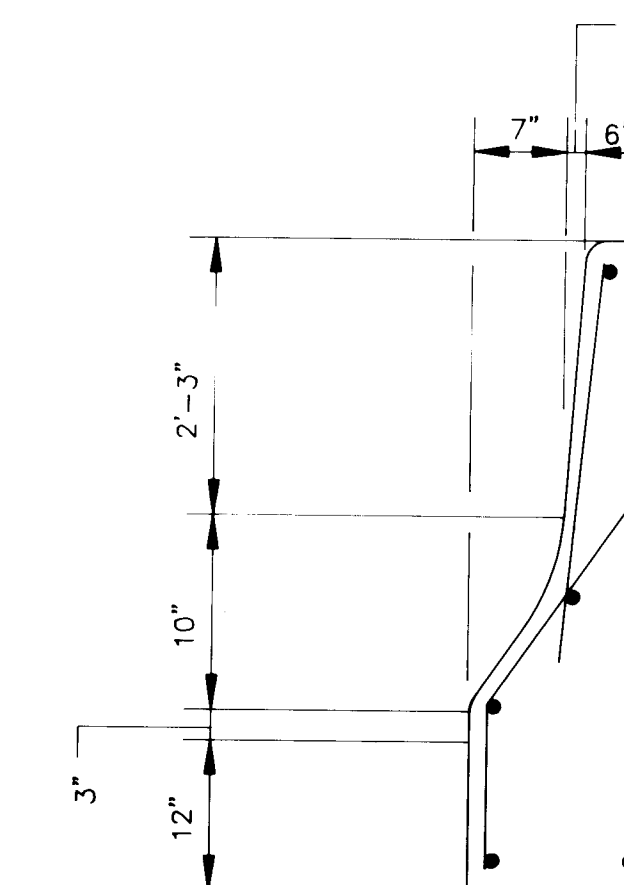
AVID ENGINEERING, INC.
Civil • Structural • Transportation
6100 Seagull St. NE - Suite 102
Albuquerque, NM 87109 - (505) 881-5357

NOTES

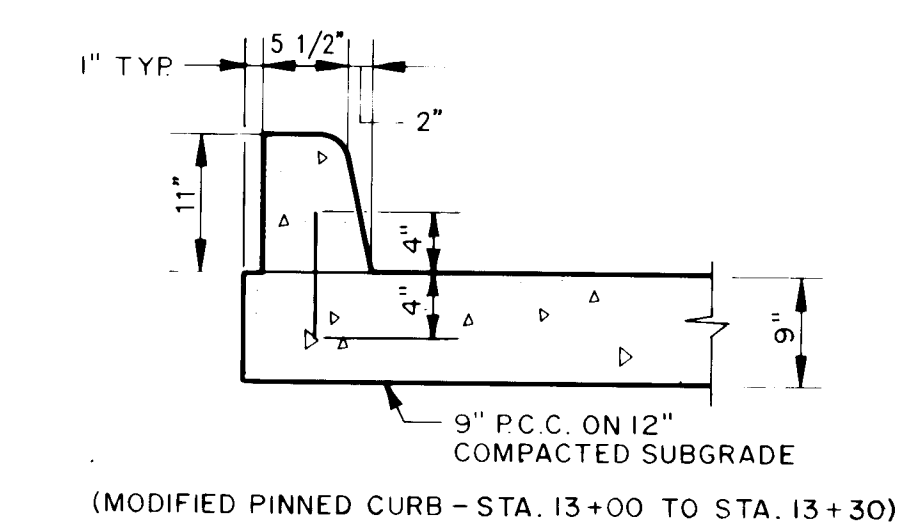
- 1.) TRANSITION WALL BARRIER FROM STA. 0+67.17 TO STA. 0+92.17 LT. & RT. AND FROM STA. 12+75.00 TO STA. 13+00.00 LT. & RT.



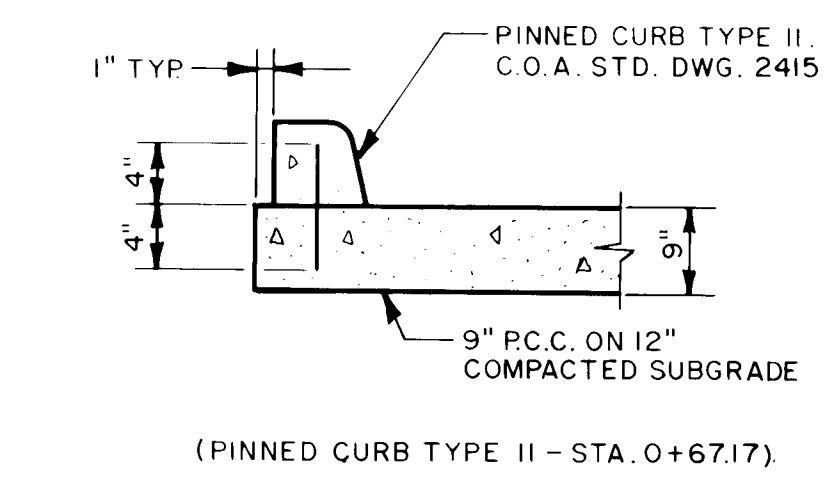
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE					
CONCRETE WALL BARRIER TRANSITION DETAILS - SCHEDULE A					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>B.P. Gaskin</i>	<i>3-1-93</i>	Water	<i>N/A</i>	
Transportation	<i>N/A RHO</i>	<i>6-7-92</i>	Waste Water		
Hydrology	<i>N/A</i>				
DRAWING NO. 4018.90		MAP NO. K-14		SHEET 24 NO. 47	



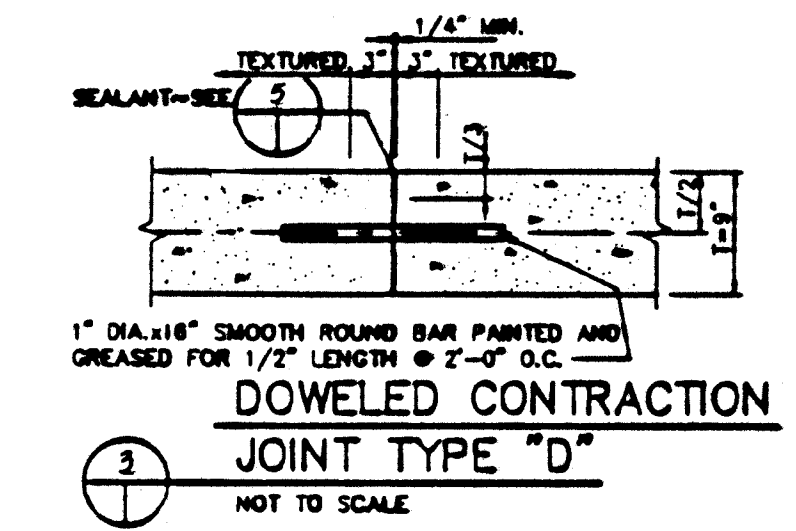
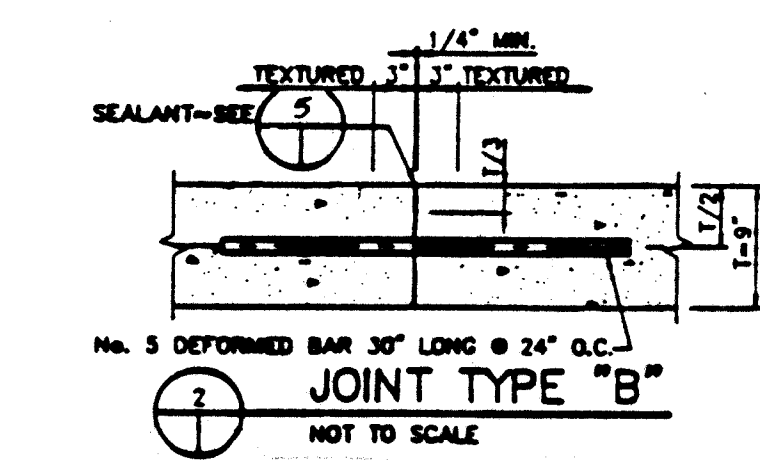
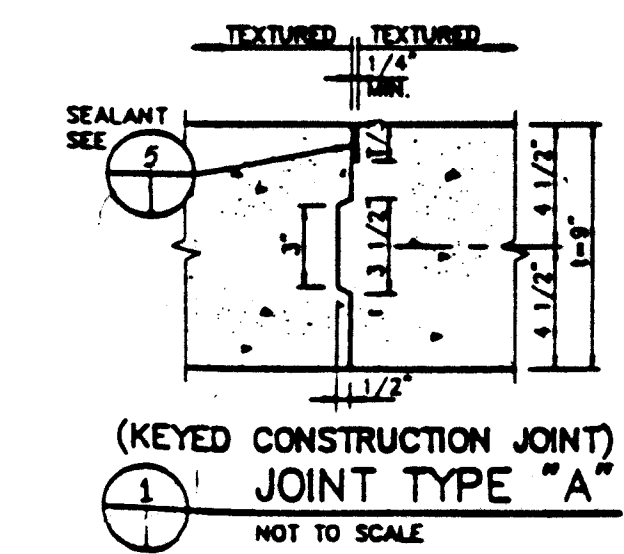
SECTION A-A



SECTION B-B



SECTION B-B

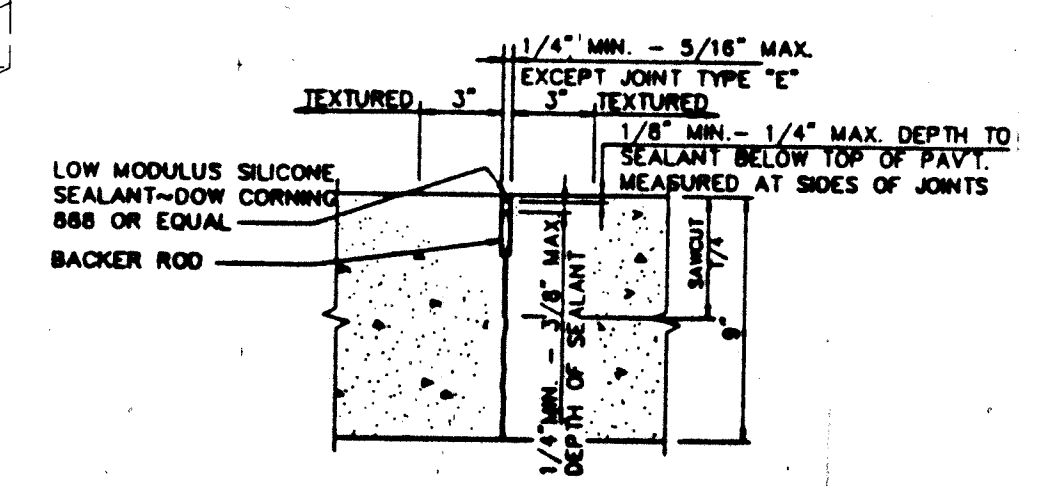


3/4" MIN.
TEXTURED 3" 3" TEXTURED
SEALANT-BEE (5)
EXPANSION CAP ON PAINTED END OF ROD
1/2" 1/2"
3/4" ELASTOMERIC FILLER (NON-BINDING)
1" DIA. x 24" SMOOTH ROUND BAR PAINTED AND GREASED FOR 1/2" LENGTH WITH EXPANSION CAP @ 2'-0" O.C.

4

EXPANSION JOINT TYPE "E"

NOT TO SCALE



SILICONE SEALANT
JOINT PLACEMENT
NOT TO SCALE

1.) TRANSITION WALL BARRIER FROM STA. 0+67.17 TO STA. 0+92.17 LT. & RT. AND FROM STA. 12+75.00 TO STA. 13+00.00 LT. & RT.

AVID ENGINEERING, INC.
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6100 Seagull St. NE - Suite 102
Albuquerque, NM 87109 - (505) 881-5357

[illegible]

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE CONCRETE WALL BARRIER TRANSITION DETAILS-SCHEDULE B					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>B.A. Goshley</i>	<i>3-1-93</i>	Water	<i>N/A</i>	
Transportation	<i>M.A. RHO</i>	<i>4-1-92</i>	Waste Water		
Hydrology	<i>NA</i>				
DRAWING NO. 4018.90		MAP NO. K-14		SHEET 24-B1 NO. 47	

[illegible]



PART SECTION



JUNCTION BOX LOCATIONS FOR TRAFFIC INTERCONNECT (~~6 REQ'D~~)

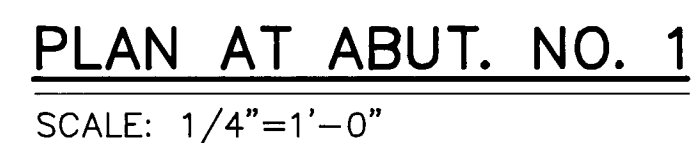


PART SECTION AT RETAINING WALL



AVID ENGINEERING, INC.
Civil • Structural • Transportation
6100 Seagull St. NE - Suite 102
Albuquerque, NM 87109 - (505) 881-5357

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE LIGHTING DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>S. J. Sanchez</i>	3-1-93	Water	<i>N/A</i>	
Transportation	<i>W. R. H.</i>	6-12-92	Waste Water		
Hydrology	<i>N/A</i>				
DRAWING NO. 4018.90		MAP NO. K-14		SHEET 26 NO. 47	



Carlos G. Padilla 3/24/94
CARLOS G. PADILLA, P.E. NO. 11040 DATE



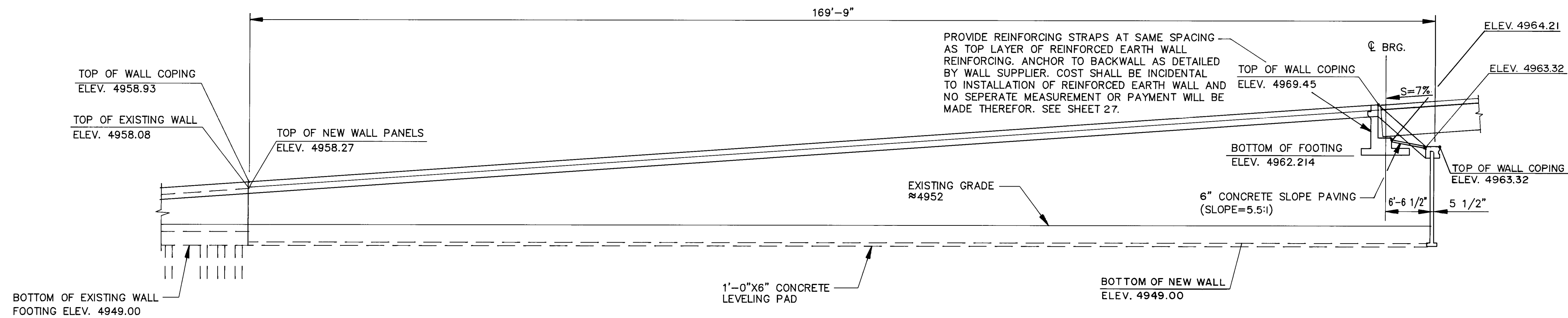
REINFORCING STEEL FOR ABUTMENT NO. 1

REGULAR GRADE 60 BARS				
BAR	TYPE	SIZE	LENGTH	NO. REQ'D
#4V1*	1	4	6'-6"	53
#5V1*	1	5	6'-6"	53
#4V2	1	4	4'-10"	2
#5V2	1	5	4'-10"	2
#5S3	2	5	10'-6"	56
#5H1	1	5	55'-9"	6
#5H2	1	5	54'-5"	4
#5L1	1	5	55'-9"	9
#7L1	1	7	55'-9"	6
#4F1	1	4	6'-9"	56
#4F2	1	4	55'-9"	10
#5F1	1	5	6'-9"	111
#4W1	3	4	2'-4 1/2"	26

* #4V1 AND #5V1 BARS ARE TO BE GRADE 40 REBAR.

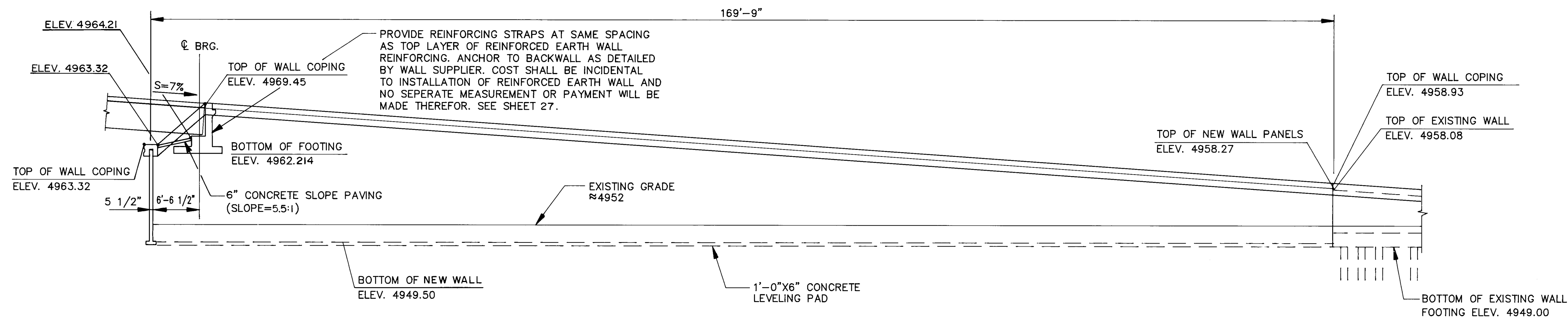
AVID ENGINEERING, INC.
Civil • Structural • Transportation
6100 Seagull St. NE - Suite 102
Albuquerque, NM 87109 - (505) 881-5357

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE ABUTMENT NO. 1 DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>B.G. Hoodley</i>	<i>3-1-93</i>	Water	<i>MLM</i>	<i>6-2-92</i>
Transportation	<i>WARR</i>	<i>6-17-92</i>	Waste Water	<i>MLM</i>	..
Hydrology	<i>NA</i>				
DRAWING NO. 4018.90		MAP NO. K-14		SHEET 27 NO. 47	



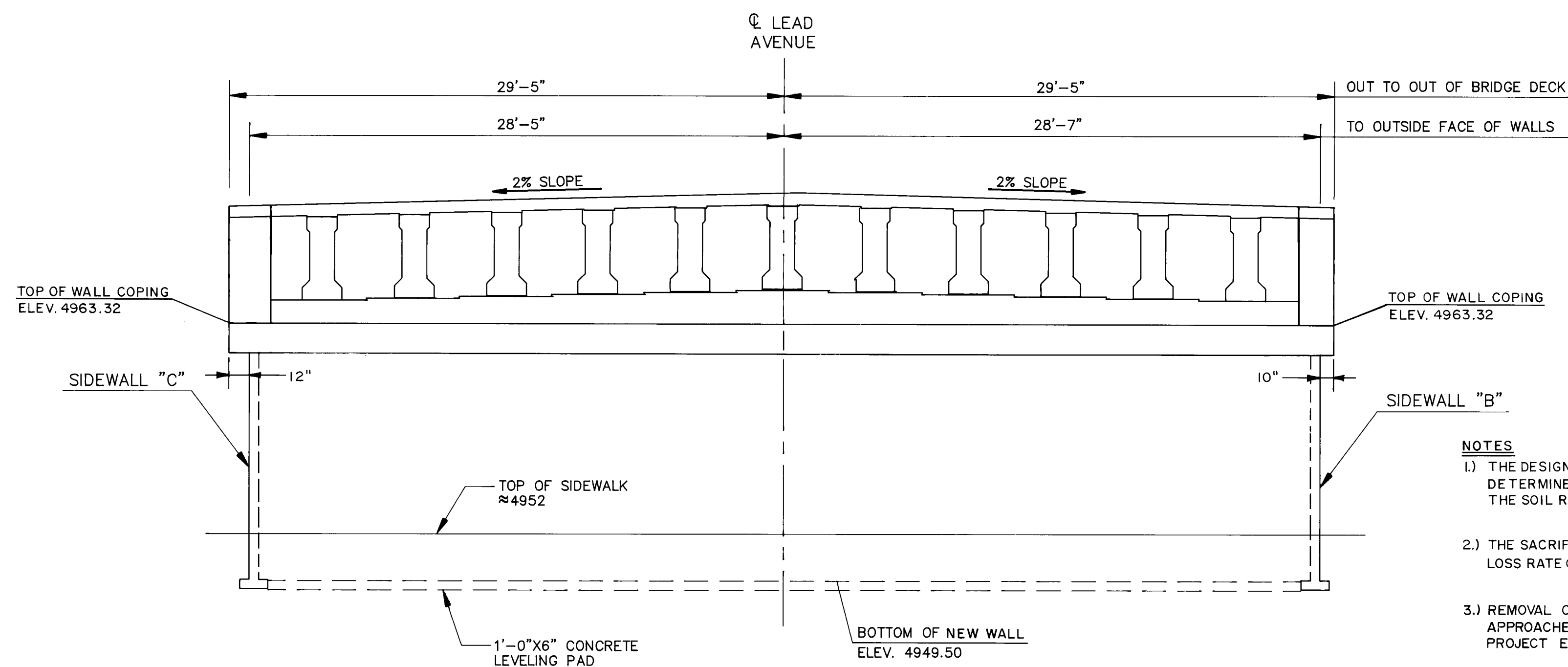
ELEVATION AT SIDEWALL "C"

SCALE: 1"=10'



ELEVATION AT SIDEWALL "B"

SCALE: 1"=10'



ELEVATION AT FRONTWALL "A"

SCALE: 1"=5' (LOOKING BACK)

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040
DATE 3/21/94

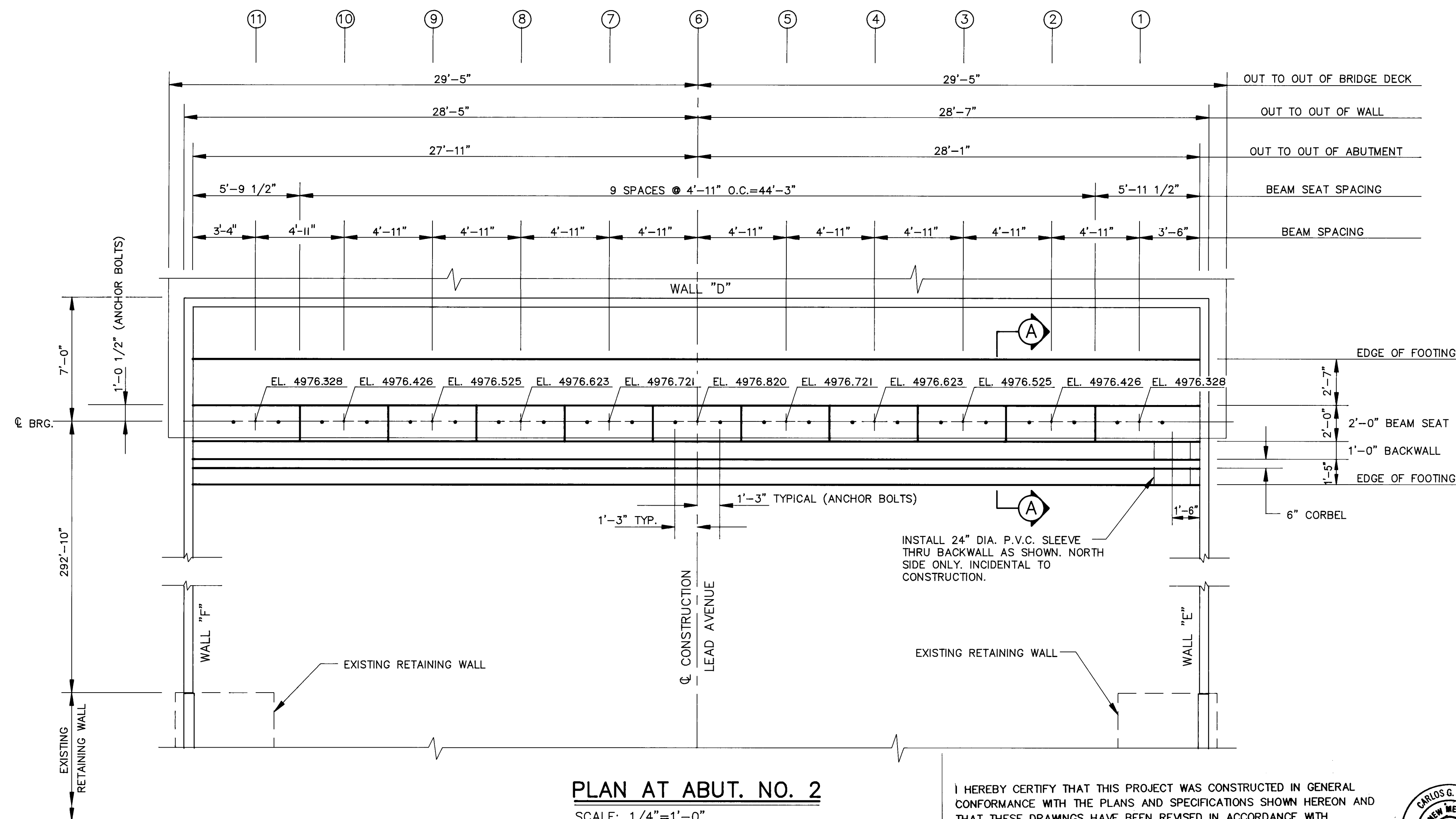


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26 4018.902895

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE REINFORCED EARTH WALLS AT ABUT. NO. 1					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>R. G. Padilla</i>	3-1-93	Water	<i>R. G. Padilla</i>	6-2-92
Transportation	<i>R. G. Padilla</i>	6-17-92	Waste Water	<i>R. G. Padilla</i>	..
Hydrology	<i>NA</i>				
DRAWING NO.	4018.90	MAP NO. K-14	SHEET 28	NO. 47	

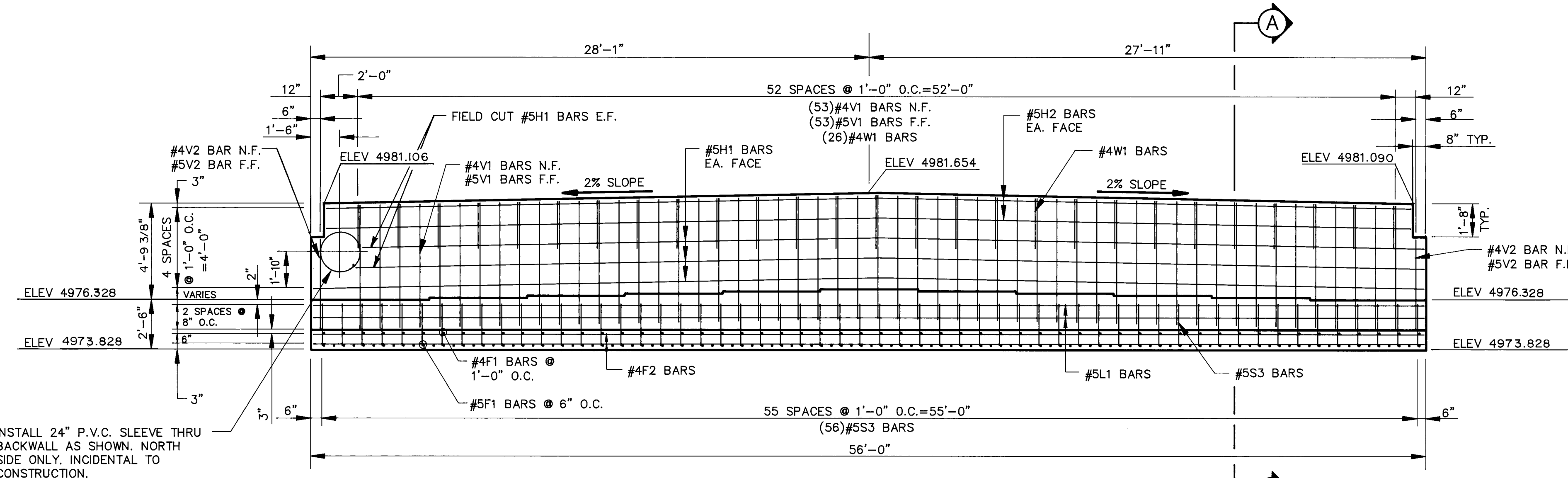
AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	BOCABUNO & SERRANO	WORK BY	B. S. N.	DATE	3-1-93	NO.	1	DATE	10/90	BY	ALBUQUERQUE
INSPECTOR'S	T. A.	ACCEPTANCE BY	T. A.	DATE	3-1-93	NO.	1	DATE	10/90	BY	ALBUQUERQUE
DRAWINGS	DATE	REVISION	DATE	REVISION	DATE	NO.	1	DATE	10/90	BY	ALBUQUERQUE
MICRO-FILM INFORMATION			MICRO-FILM INFORMATION			MICRO-FILM INFORMATION			MICRO-FILM INFORMATION		
RECORDED BY	DATE	NO.	RECORDED BY	DATE	NO.	RECORDED BY	DATE	NO.	RECORDED BY	DATE	NO.



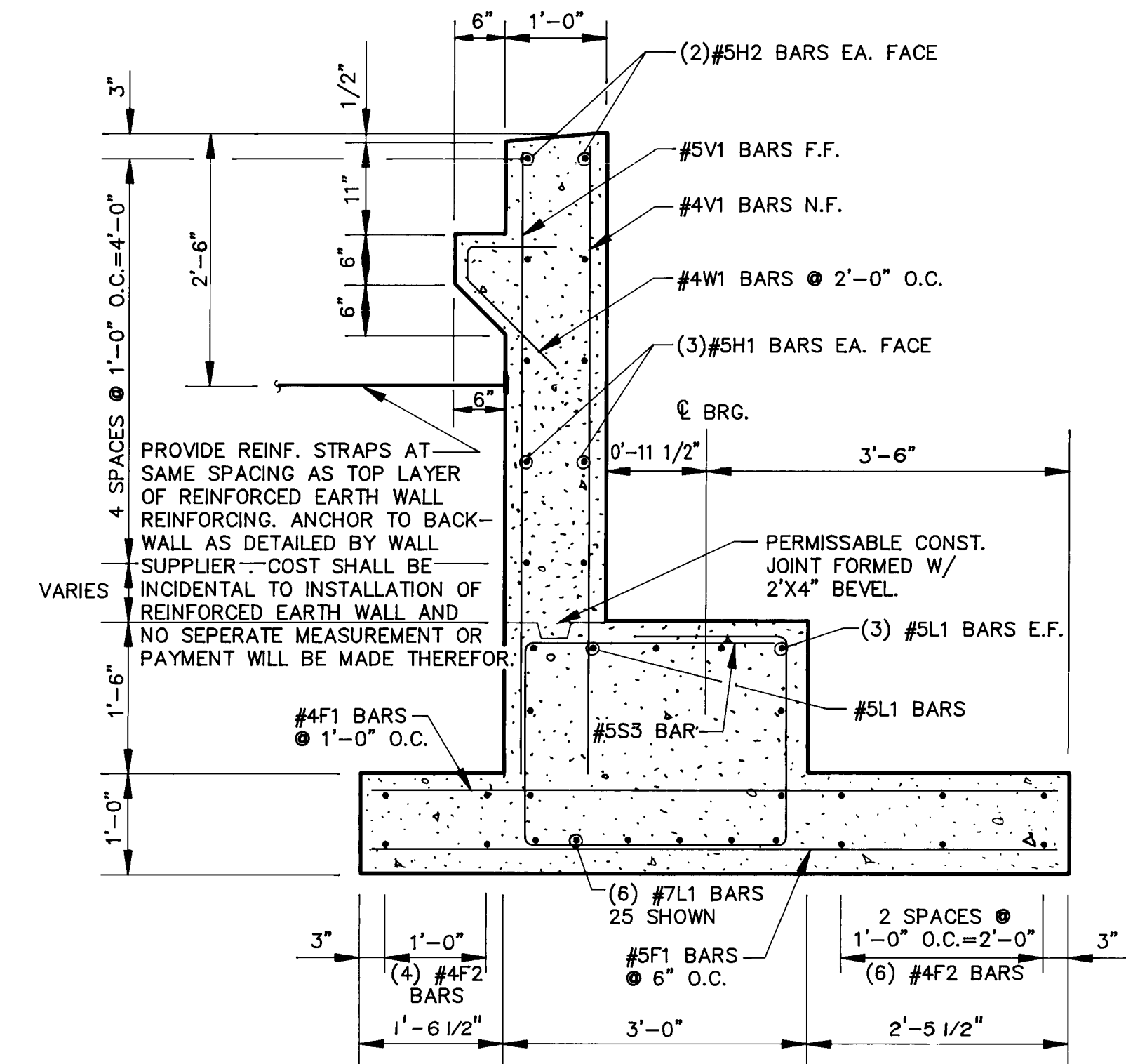
PLAN AT ABUT. NO. 2
SCALE: 1/4"=1'-0"

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

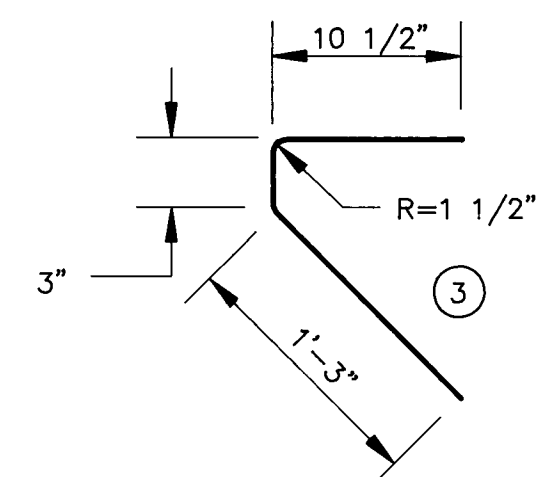
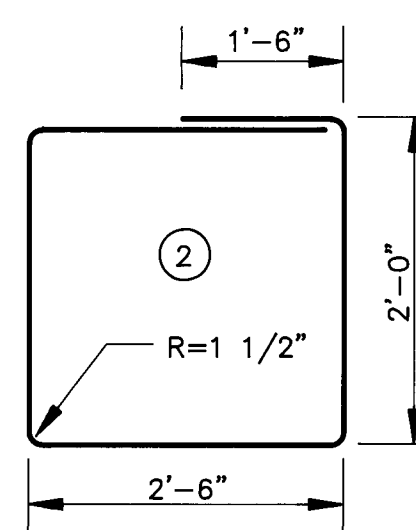
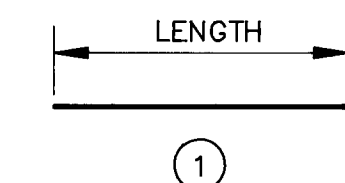
Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040
3/24/94
DATE



ELEVATION AT ABUT. NO. 2
SCALE: 1/4"=1'-0" (LOOKING FORWARD)



SECTION A-A



BAR BENDING DIAGRAM
NO SCALE

REINFORCING STEEL
FOR ABUTMENT NO. 2

REGULAR GRADE 60 BARS				
BAR	TYPE	SIZE	LENGTH	NO. REQ'D
#4V1*	1	4	6'-6"	53
#5V1*	1	5	6'-6"	53
#4V2	1	4	4'-10"	2
#5V2	1	5	4'-10"	2
#5S3	2	5	10'-6"	56
#5H1	1	5	55'-9"	6
#5H2	1	5	54'-5"	4
#5L1	1	5	55'-9"	9
#7L1	1	7	55'-9"	6
#4F1	1	4	6'-9"	56
#4F2	1	4	55'-9"	10
#5F1	1	5	6'-9"	111
#4W1	3	4	2'-4 1/2"	26

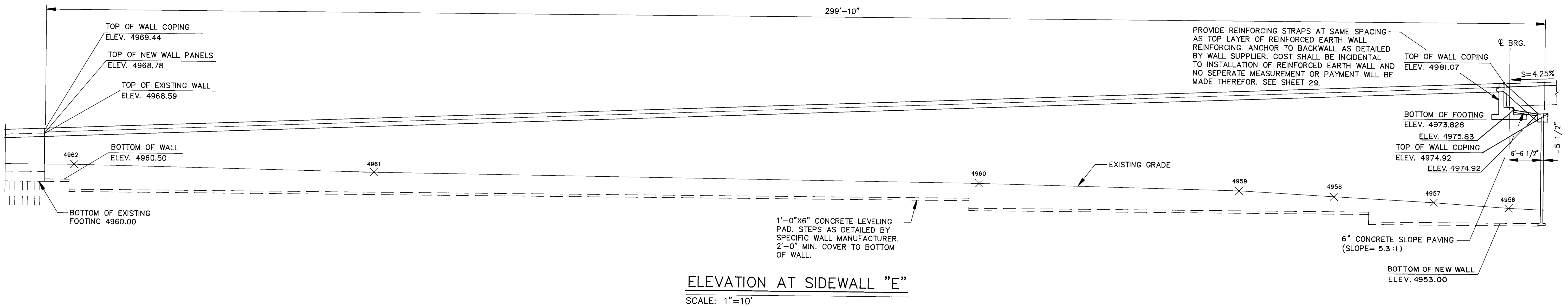
* #4V1 AND #5V1 BARS ARE TO BE GRADE 40 REBAR.

AVID ENGINEERING, INC.
Civil • Structural • Transportation
6100 Seagull St. NE - Suite 102
Albuquerque, NM 87109 - (505) 881-5357

NOTE:
1. ELEVATIONS SHOWN ARE TAKEN AT FACE OF BACKWALL.

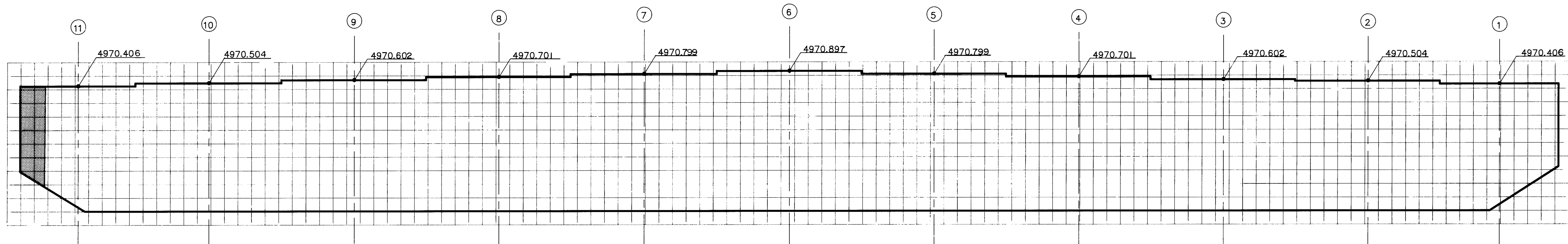
26 4018 902995

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE ABUTMENT NO. 2 DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>W. R. Padilla</i>	3-1-93	Water	<i>W. R. Padilla</i>	3-1-93
Transportation	<i>W. R. Padilla</i>	3-1-93	Waste Water	<i>W. R. Padilla</i>	3-1-93
Hydrology	<i>W. R. Padilla</i>	3-1-93			
DRAWING NO.	4018.90	MAP NO.	K-14	SHEET	29 NO. 47

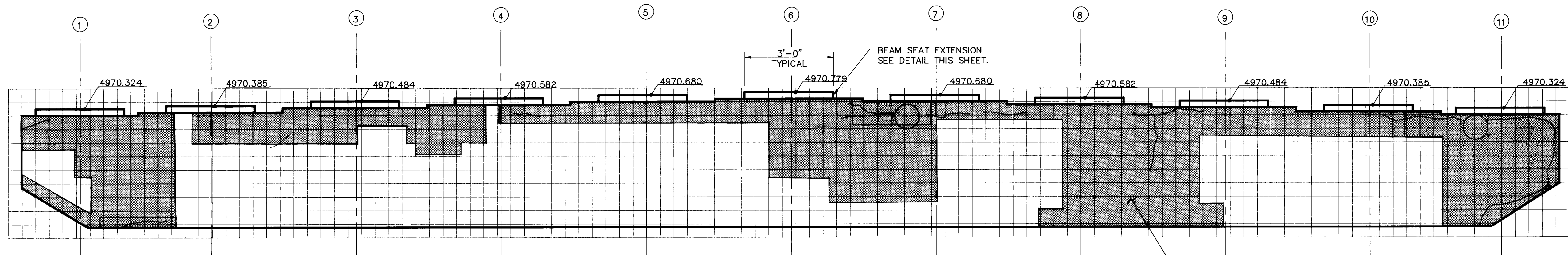


26 4018.903095

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE					
REINFORCED EARTH WALLS AT ABUT. NO. 2					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>[Signature]</i>	7-1-93	Water	<i>[Signature]</i>	6-9-92
Transportation	<i>[Signature]</i>	6-17-92	Waste Water	<i>[Signature]</i>	"
Hydrology	N/A				
DRAWING NO. 4018.90		MAP NO. K-14		SHEET 30 NO. 47	



EAST SIDE ELEVATION
(LOOKING WEST)



WEST SIDE ELEVATION
(LOOKING EAST)

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040
3/24/94
DATE

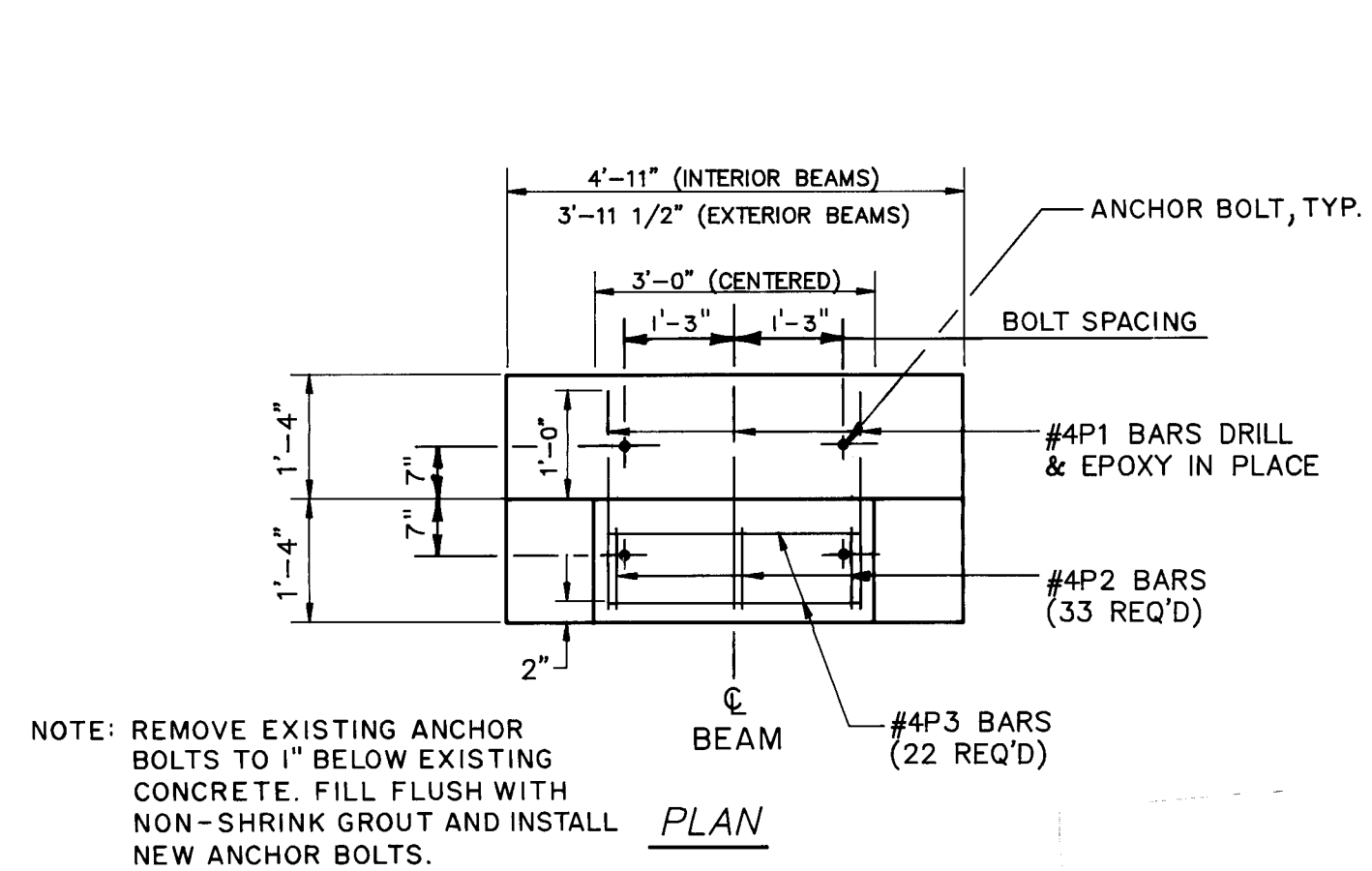


LEGEND

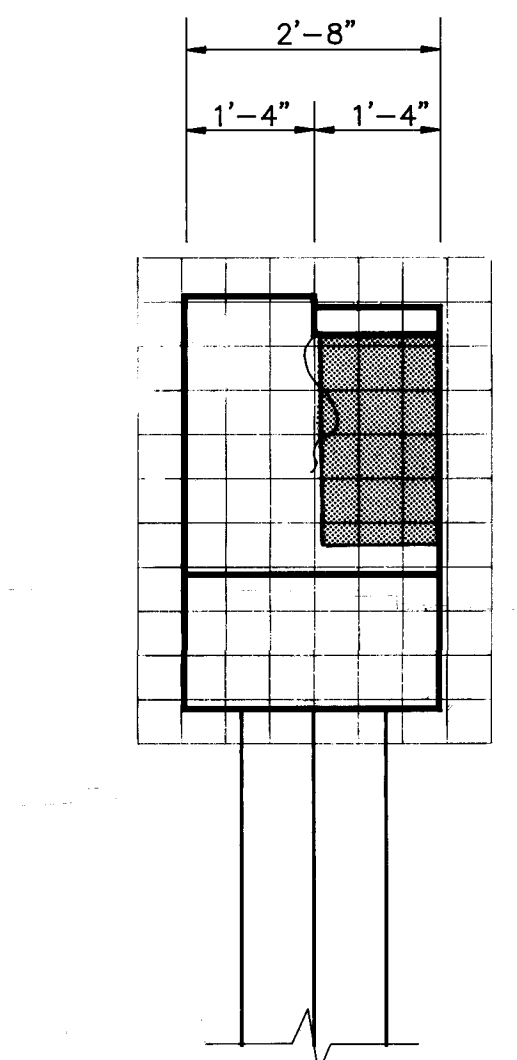
- CRACK IN CONCRETE
- AREA OF CONCRETE DELAMINATION
- 10" CONCRETE CORE SAMPLE
- 2" CONCRETE CORE SAMPLE
- AREA OF CONCRETE SPALLING
- 5 1/2" X 5 1/2" GRID
- REPAIR AREAS AS DETERMINED IN FIELD

ESTIMATED REPAIR QUANTITIES FOR PIER NO. 1 (INVESTIGATION PERFORMED 10/90)	
ITEM	EST. QUANT.
EPOXY INJECTION	.80 GALLONS
AREA OF DELAMINATION	19.00 SQ. FT.
*INCLUDES SPALLED AREAS	

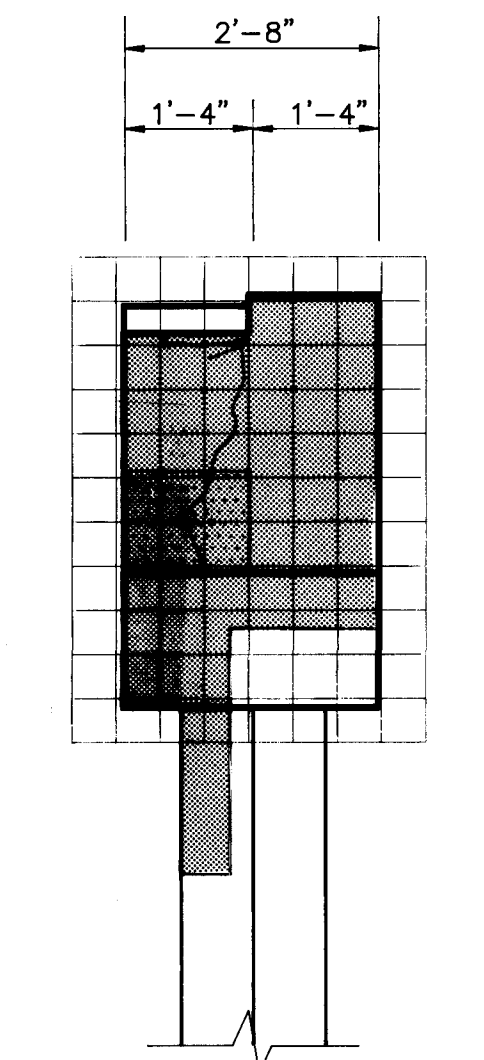
AVID ENGINEERING, INC.
Civil • Structural • Transportation
6100 Seagull St. NE - Suite 102
Albuquerque, NM 87109 - (505) 881-5357



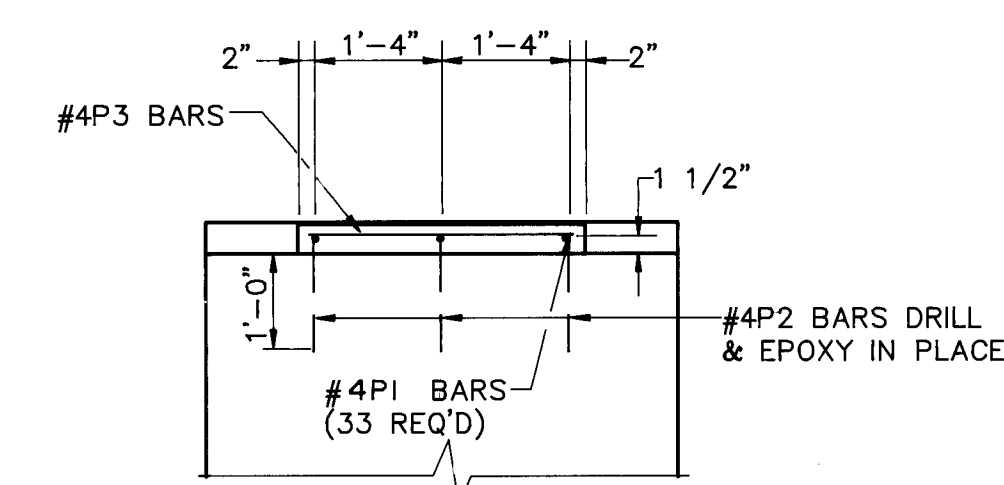
PLAN



NORTH ELEVATION



SOUTH ELEVATION

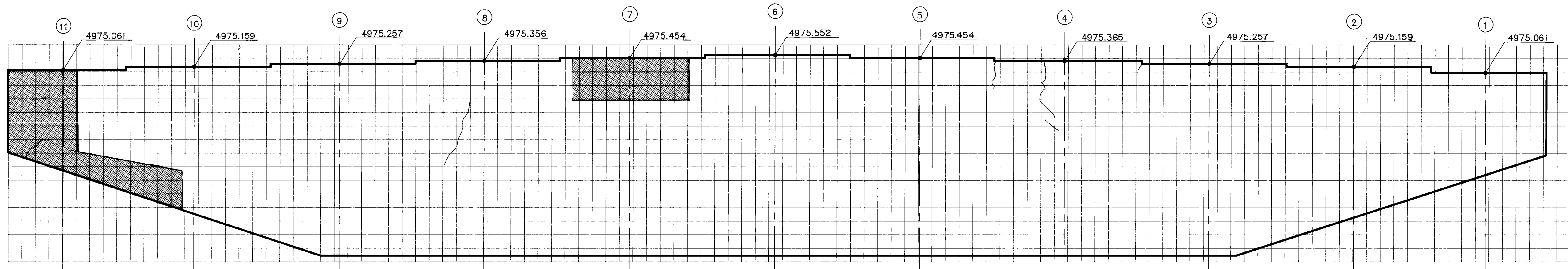


ELEVATION

BEAM SEAT ELEVATION DETAIL

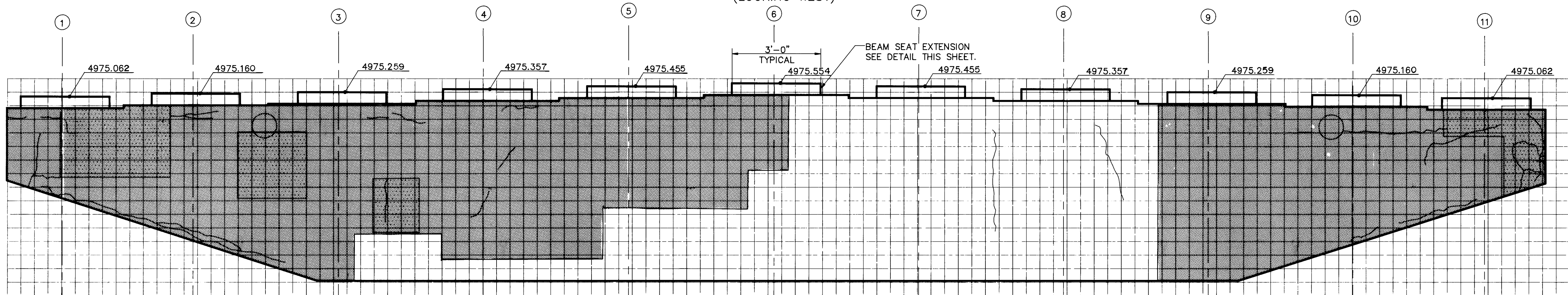
AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR: B. S. N. & S. N. DATE: 3/24/94			"3-K 14" ACS BRASS CAP (FOUND IN PLACE)			FIELD NOTES			ENGINEER'S SEAL		
WORKED BY: B. S. N. DATE: 3/24/94			NEW MEXICO STATE PLANE COORDINATE SYSTEM			DATE			BY		
INSPECTOR'S FIELD CHECK BY: T. A. DATE: 3/24/94			(CENTRAL ZONE) Y=1,485,136.24 X=380,241.23			10/90			REMARKS		
FIELD CHECK BY: T. A. DATE: 3/24/94			G-G=0.99967968 Δα=-0.001348"			SURVEYING CO. INC.			NO. DATE		
CORRECTED BY: DATE: 3/24/94			ELEV.=4,950.564			DATE			DESIGN		
MICRO-FILM INFORMATION			RECORDED BY: DATE: 3/24/94			DATE			DRAWN BY: RLBN DATE: 11/91		
NO.			NO.			NO.			CHECKED BY: DLW DATE: 11/91		

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE PROJECT PIER NO. 1 (EXISTING PIER NO. 3)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>S. P. Padilla</i>	3-1-93	Water	<i>N/A</i>	
Transportation	<i>N/A</i>	6-17-92	Waste Water		
Hydrology	<i>N/A</i>				
DRAWING NO. 4018.90		MAP NO. K-14		SHEET 31 NO. 47	



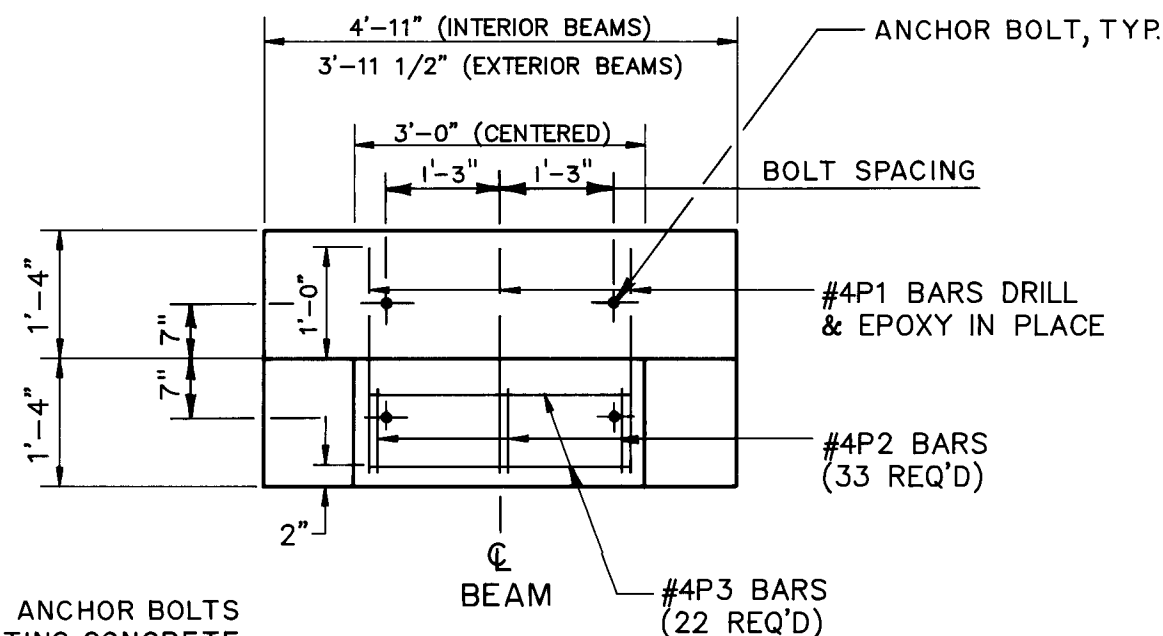
EAST SIDE ELEVATION

(LOOKING WEST)

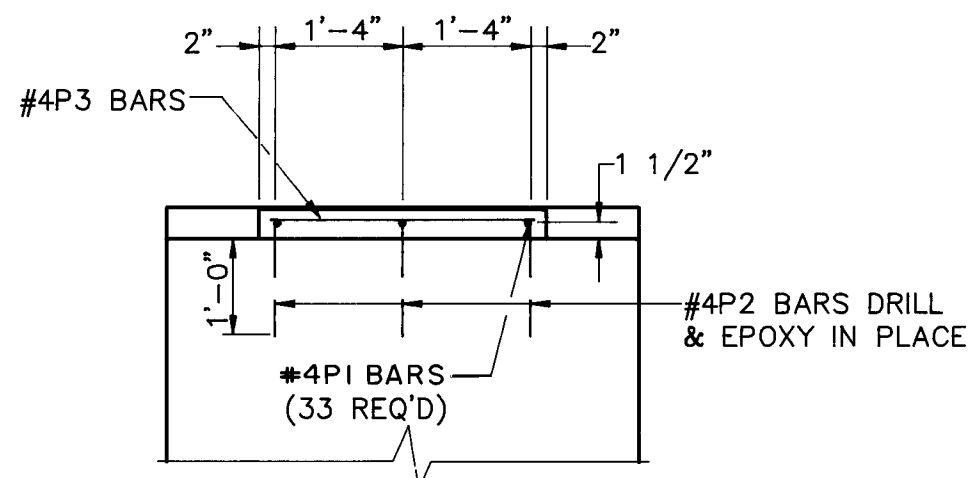


WEST SIDE ELEVATION

(LOOKING EAST)

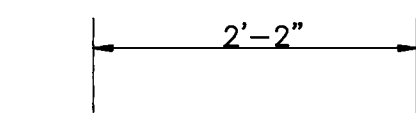


PLAN

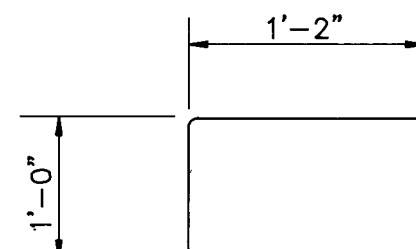


ELEVATION

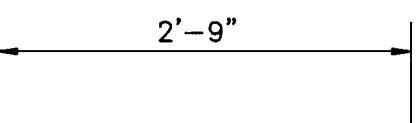
NOTE: REMOVE EXISTING ANCHOR BOLTS TO 1" BELOW EXISTING CONCRETE. FILL FLUSH WITH NON-SHRINK GROUT AND INSTALL NEW ANCHOR BOLTS.



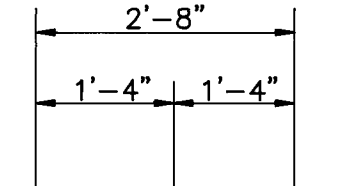
(#4P1 BAR)



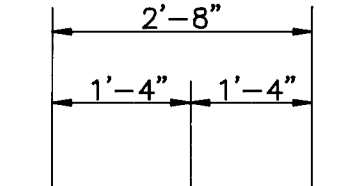
(#4P2 BAR)



(#4P3 BAR)



NORTH ELEVATION



SOUTH ELEVATION

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

CARLOS G. PADILLA, P.E. NO. 11040 DATE 3/24/94



LEGEND

- CRACK IN CONCRETE
- AREA OF CONCRETE DELAMINATION
- 10" CONCRETE CORE SAMPLE
- 2" CONCRETE CORE SAMPLE
- AREA OF CONCRETE SPALLING
- 5 1/2" X 5 1/2" GRID
- REPAIR AREAS AS DETERMINED IN FIELD

ESTIMATED REPAIR QUANTITIES FOR PIER NO. 2 (INVESTIGATION PERFORMED 10/90)	
ITEM	EST. QUANT.
EPOXY INJECTION	2.00 GALLONS
*AREA OF DELAMINATION	30.00 SQ. FT.

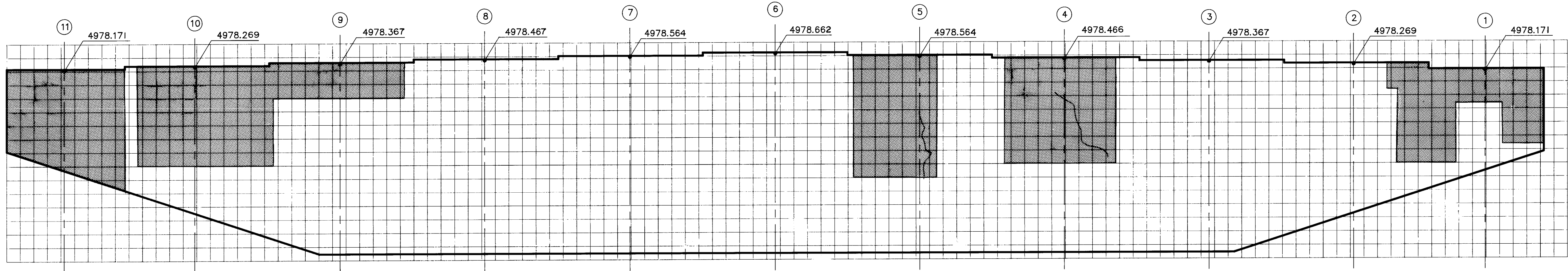
*INCLUDES SPALLED AREAS



AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	DATE	WORK	DATE	"3-K 14" ACS BRASS CAP (FOUND IN PLACE)	NEW MEXICO STATE PLANE COORDINATE SYSTEM	DATE	NO.	BY	DATE	NO.	BY	ENGINEER'S SEAL	DATE	NO.	BY
BY B.S.N.	DATE	DATE	DATE	(CENTRAL ZONE) Y=1,485,136.24 X=380,241.23	DATE	DATE	1	ALBUQUERQUE SURVEYING CO. INC.	10/90	1	ALBUQUERQUE SURVEYING CO. INC.	CARLOS G. PADILLA	3/24/94	1	ALBUQUERQUE SURVEYING CO. INC.
FIELD ACCEPTANCE BY	DATE	FIELD ACCEPTANCE BY	DATE	G-G=0.99967968 Δα = -00°13'48"	DATE	DATE									
DRAWINGS	DATE	DRAWINGS	DATE	ELEV.=4,950.564	DATE	DATE									
CORRECTED BY	DATE	CORRECTED BY	DATE		DATE	DATE									
RECORDED BY	DATE	RECORDED BY	DATE		DATE	DATE									
NO.		NO.													

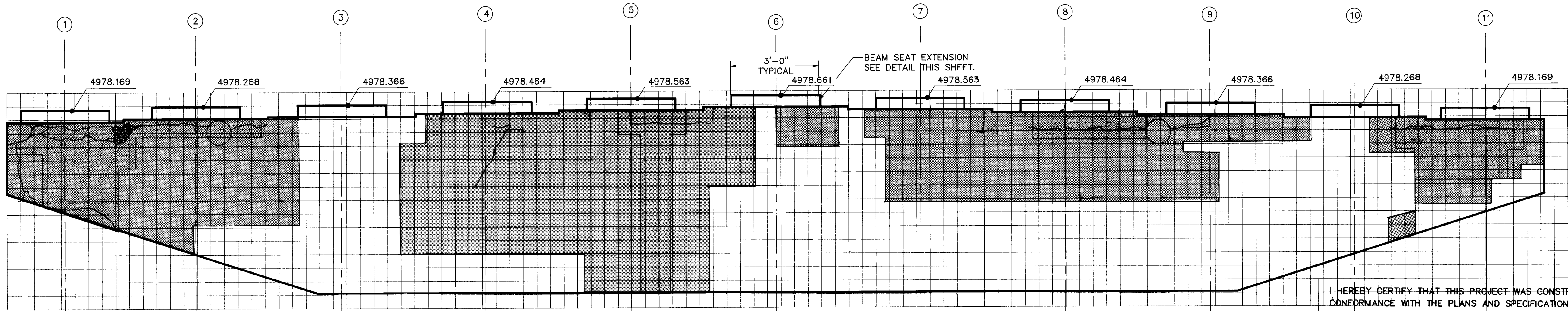
BEAM SEAT ELEVATION DETAIL

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE PIER NO. 2 (EXISTING PIER NO. 4)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	3/1/93	Water			
Transportation	3/1/93	Waste Water			
Hydrology	3/1/93				
DRAWING NO.	4018.90	MAP NO. K-14	SHEET	32	NO. 47



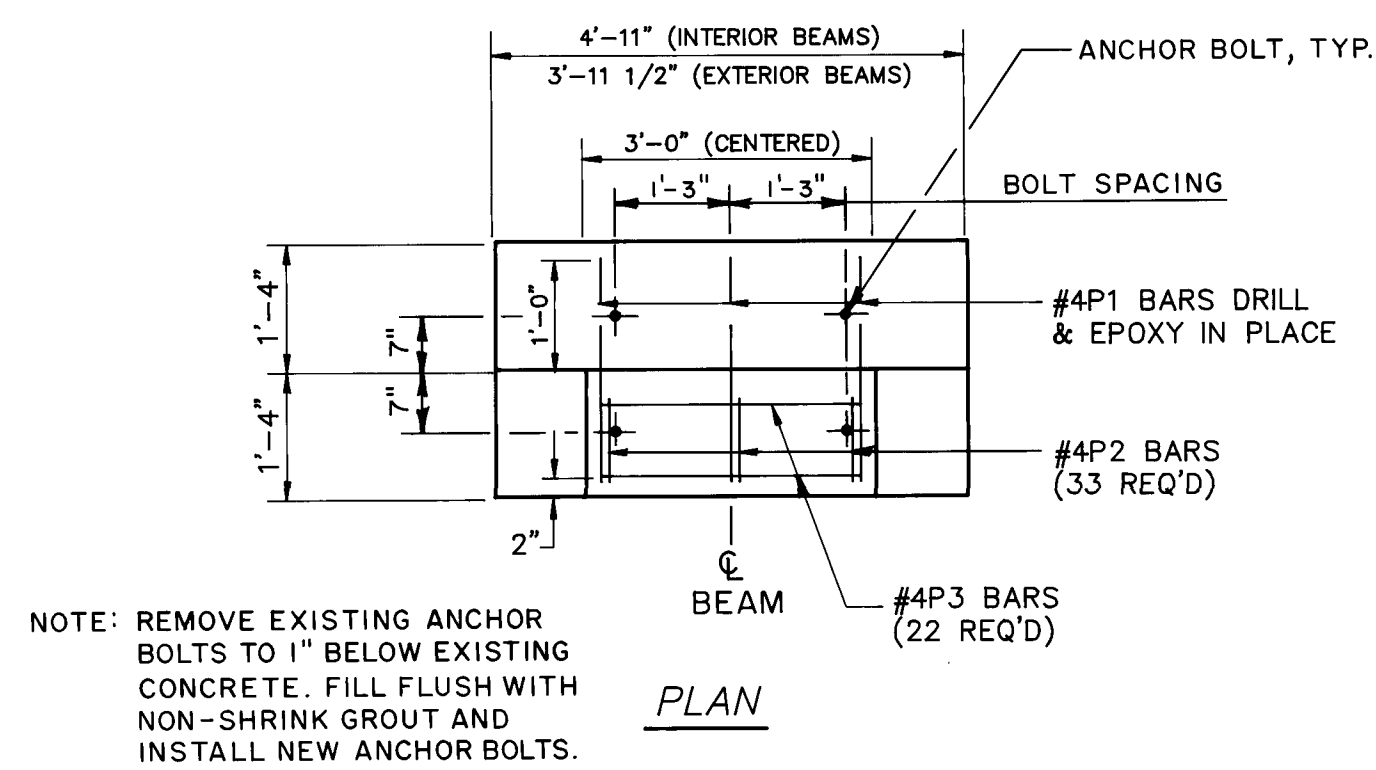
EAST SIDE ELEVATION

(LOOKING WEST)



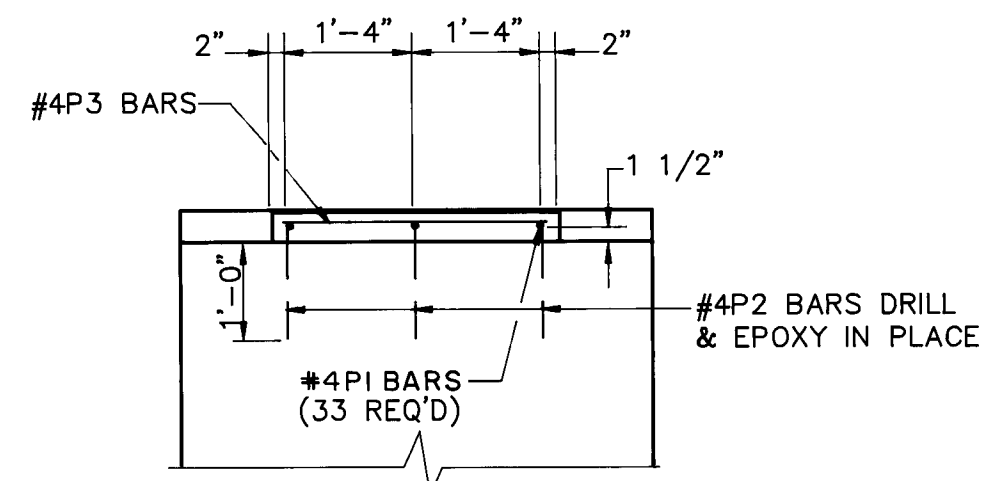
WEST SIDE ELEVATION

(LOOKING EAST)



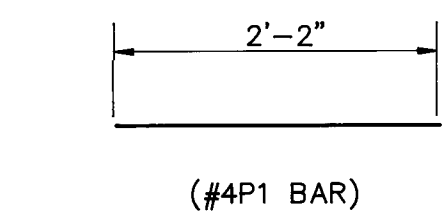
NOTE: REMOVE EXISTING ANCHOR BOLTS TO 1" BELOW EXISTING CONCRETE. FILL FLUSH WITH NON-SHRINK GROUT AND INSTALL NEW ANCHOR BOLTS.

PLAN

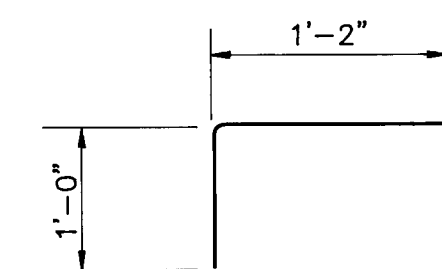


ELEVATION

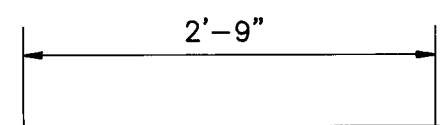
BEAM SEAT ELEVATION DETAIL



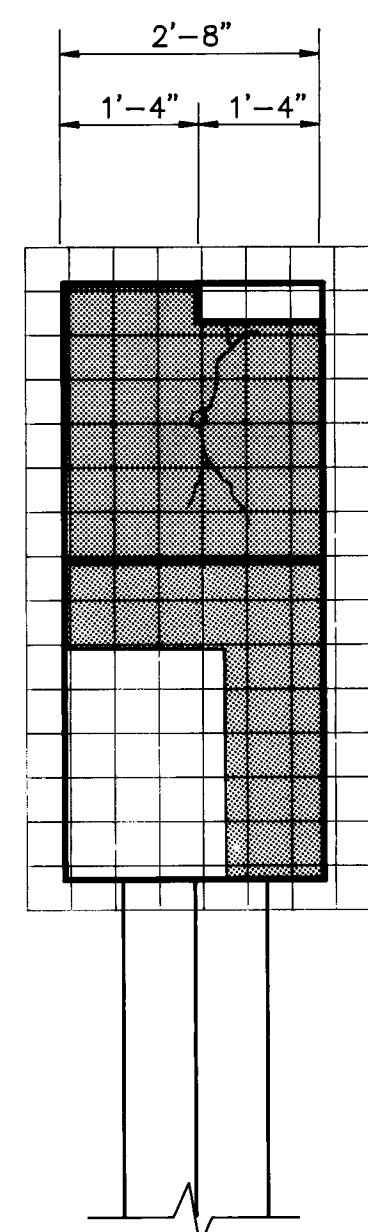
(#4P1 BAR)



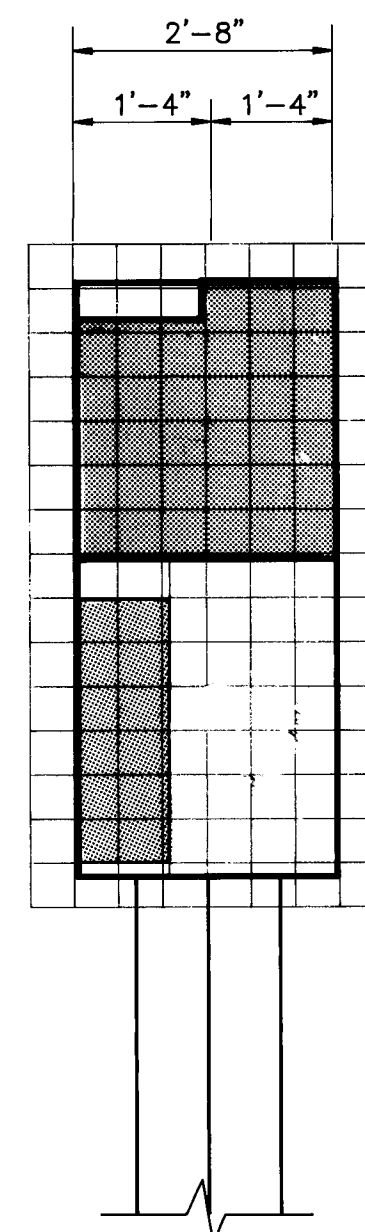
(#4P2 BAR)



(#4P3 BAR)



NORTH ELEVATION



SOUTH ELEVATION

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040

3/29/94
DATE

LEGEND

- CRACK IN CONCRETE
- AREA OF CONCRETE DELAMINATION
- 10" CONCRETE CORE SAMPLE
- 2" CONCRETE CORE SAMPLE
- AREA OF CONCRETE SPALLING
- 5 1/2" X 5 1/2" GRID
- REPAIR AREAS AS DETERMINED IN FIELD

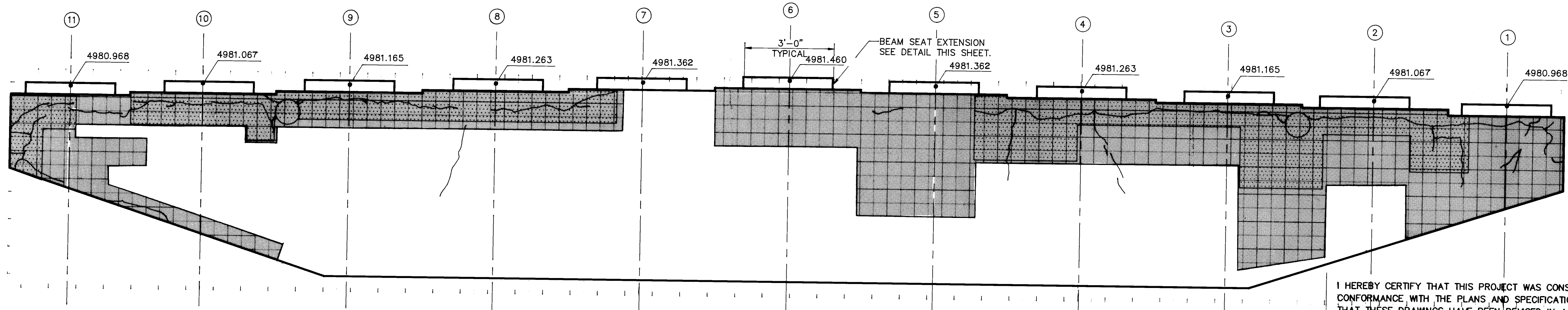
ESTIMATED REPAIR QUANTITIES FOR PIER NO. 3 (INVESTIGATION PERFORMED 10/90)	
ITEM	EST. QUANT.
EPOXY INJECTION	.60 GALLONS
*AREA OF DELAMINATION	27.00 SQ. FT.
*INCLUDES SPALLED AREAS	

26 4018.903395

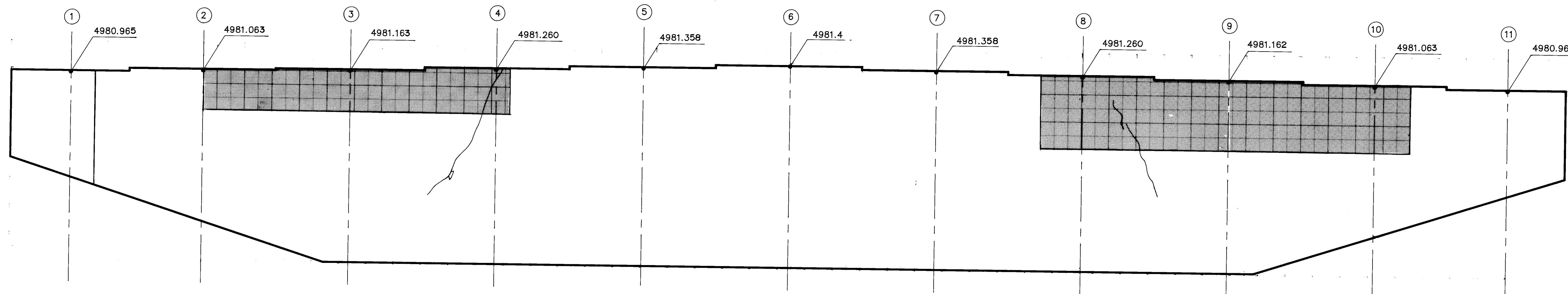


AVID ENGINEERING, INC.
Civil • Structural • Transportation
6100 Seagull St. NE - Suite 102
Albuquerque, NM 87109 - (505) 881-5357

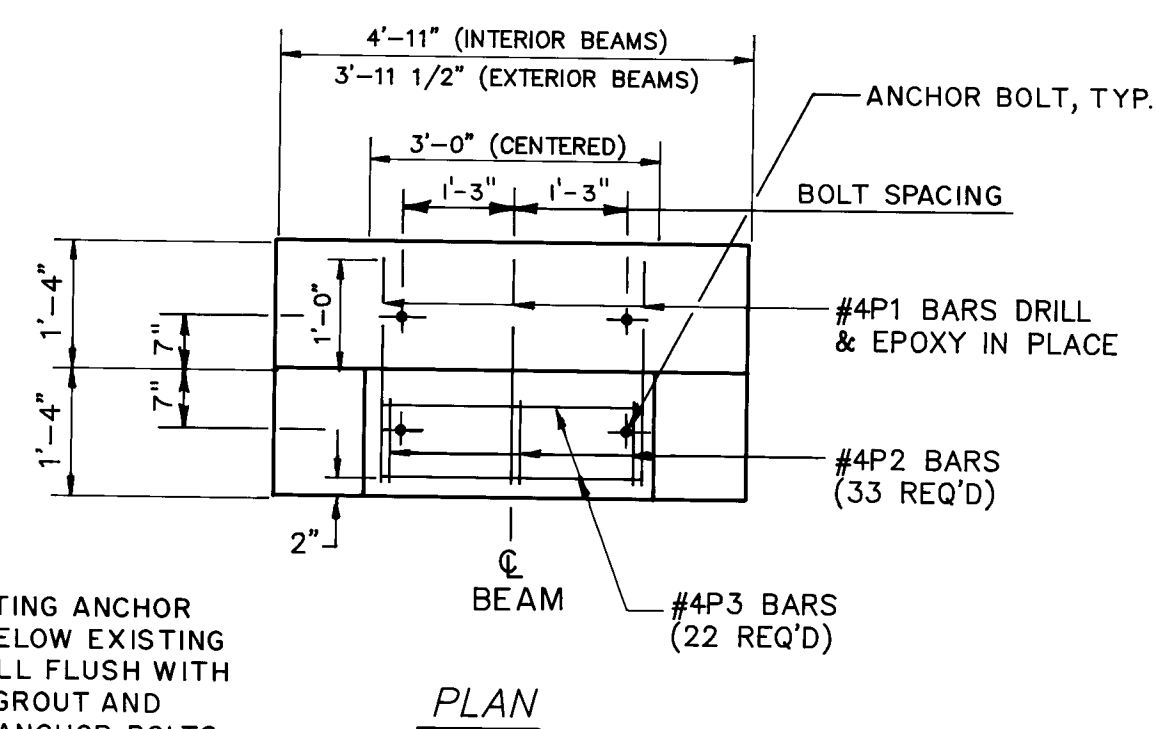
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE PIER NO. 3 (EXISTING PIER NO. 5)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>B.P. Gentry</i>	3-1-93	Water	<i>N/A</i>	
Transportation	<i>N/A RMD</i>	6-17-92	Waste Water		
Hydrology	<i>N/A</i>				
DRAWING NO. 4018.90		MAP NO. K-14		SHEET 33 NO. 47	



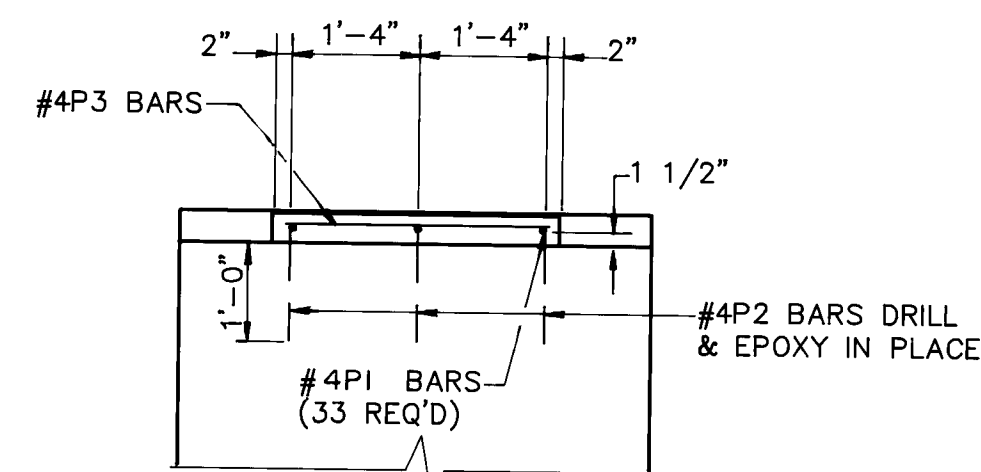
EAST SIDE ELEVATION
SCALE: 1/2"=1'-0" (LOOKING WEST)



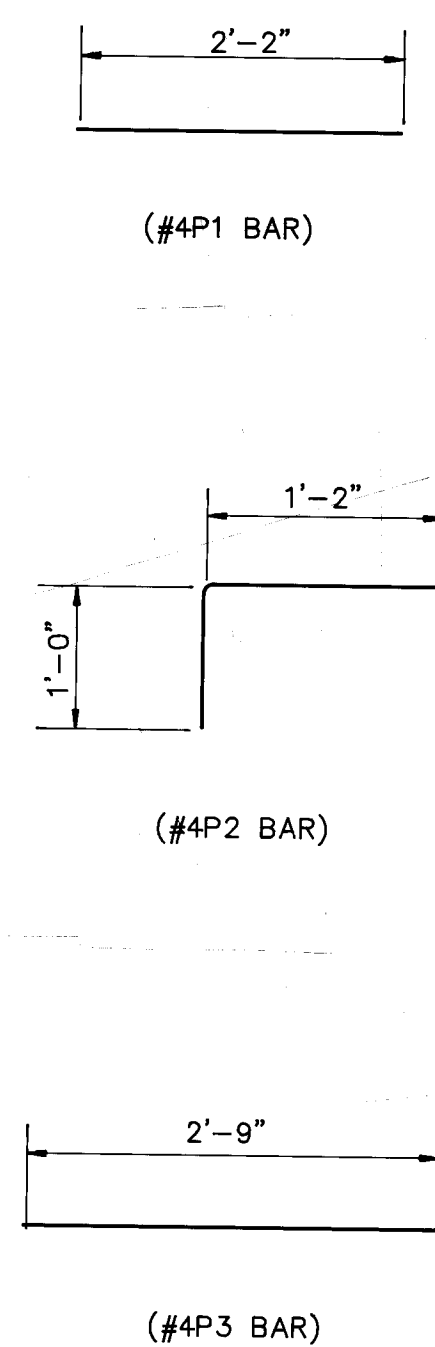
WEST SIDE ELEVATION
SCALE: 1/2"=1'-0" (LOOKING EAST)



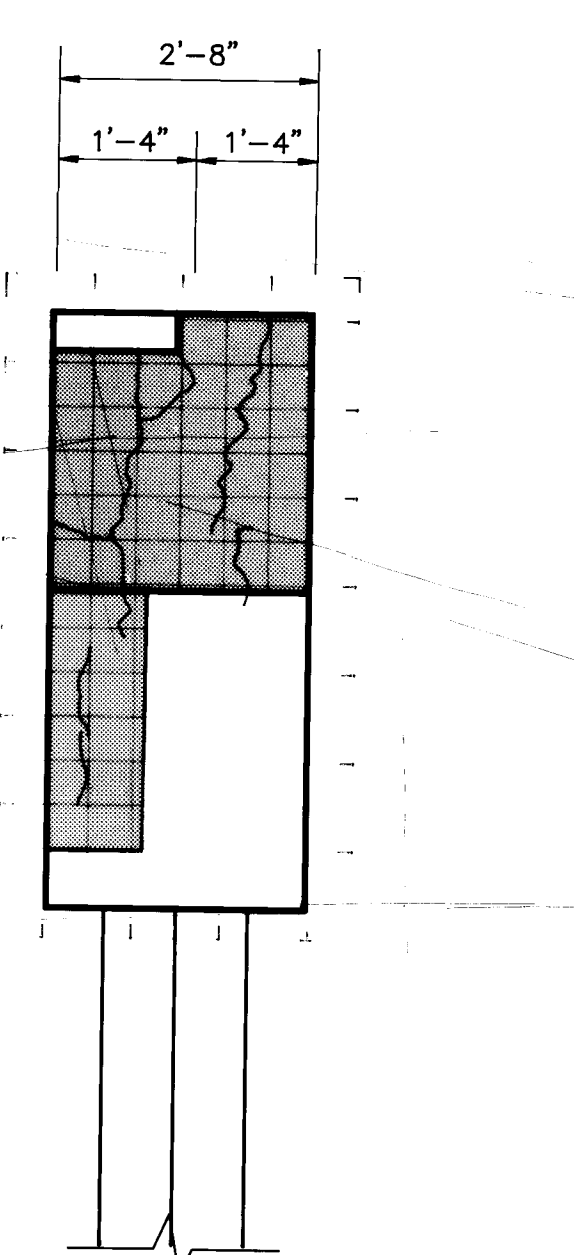
NOTE: REMOVE EXISTING ANCHOR BOLTS TO 1" BELOW EXISTING CONCRETE. FILL FLUSH WITH NON-SHRINK GROUT AND INSTALL NEW ANCHOR BOLTS.



BEAM SEAT ELEVATION DETAIL



SOUTH ELEVATION



NORTH ELEVATION

LEGEND

- CRACK IN CONCRETE
- AREA OF CONCRETE DELAMINATION
- 10" CONCRETE CORE SAMPLE
- 2" CONCRETE CORE SAMPLE
- AREA OF CONCRETE SPALLING
- 5 1/2" X 5 1/2" GRID
- REPAIR AREAS AS DETERMINED IN FIELD

ESTIMATED REPAIR QUANTITIES FOR PIER NO. 6 (INVESTIGATION PERFORMED 10/90)	
ITEM	EST. QUANT.
EPOXY INJECTION	2.00 GALLONS
*AREA OF DELAMINATION	54.00 SQ. FT.
*INCLUDES SPALLED AREAS	

AVID ENGINEERING, INC.
Civil • Structural • Transportation
6100 Seagull St. NE Suite 102
Albuquerque, NM 87109 (505) 881-5357

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

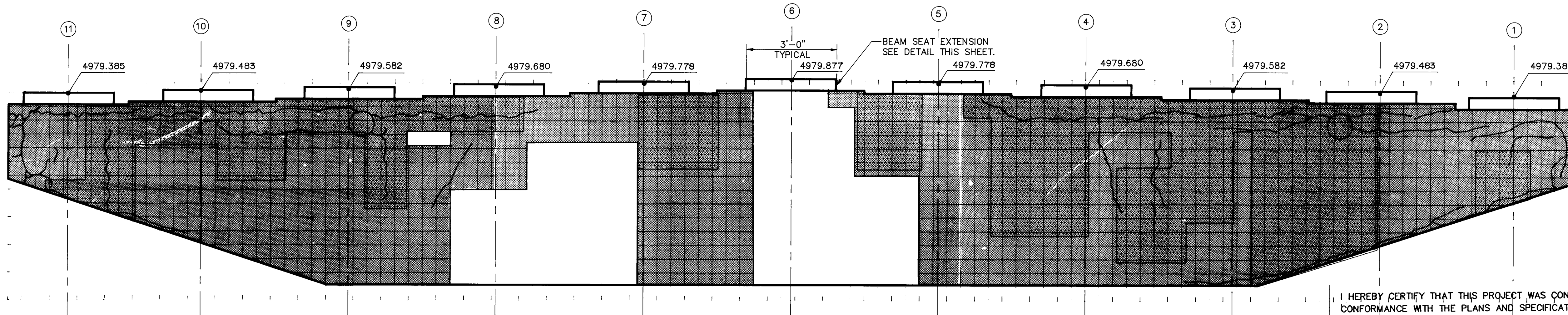
Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040
3/29/94
DATE



AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	BRADLEY & STAMM		NO.	1		DATE	10/90				
WORK STARTED BY	B. S. N.		BY	ALBUQUERQUE SURVEYING CO. INC.		DATE	10/90				
ACCEPTANCE BY	A		NO.			DATE					
FIELD DRAWINGS			REMARKS			DATE					
CORRECTED BY			DESIGN			DATE					
RECORDED BY			DATE			DATE					
NO.			CHECKED BY	DLW		DATE					

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE PIER NO. 6 (EXISTING PIER NO. 8)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>B. S. N.</i>	3-1-93	Water	<i>N/A</i>	
Transportation	<i>N/A</i>	6-11-92	Waste Water		
Hydrology	<i>N/A</i>				
DRAWING NO.	4018.90	MAP NO.	K-14	SHEET	36 NO. 47

26 4018.903695



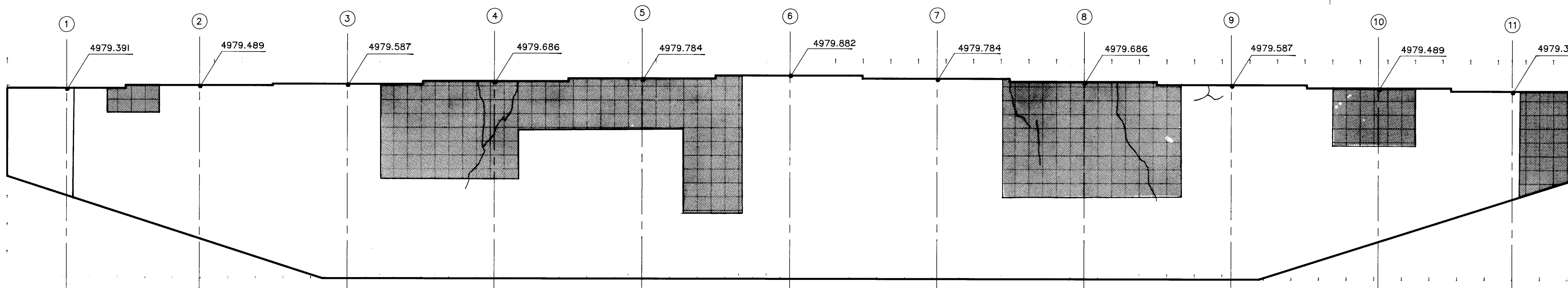
EAST SIDE ELEVATION

SCALE: 1/2"=1'-0" (LOOKING WEST)

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

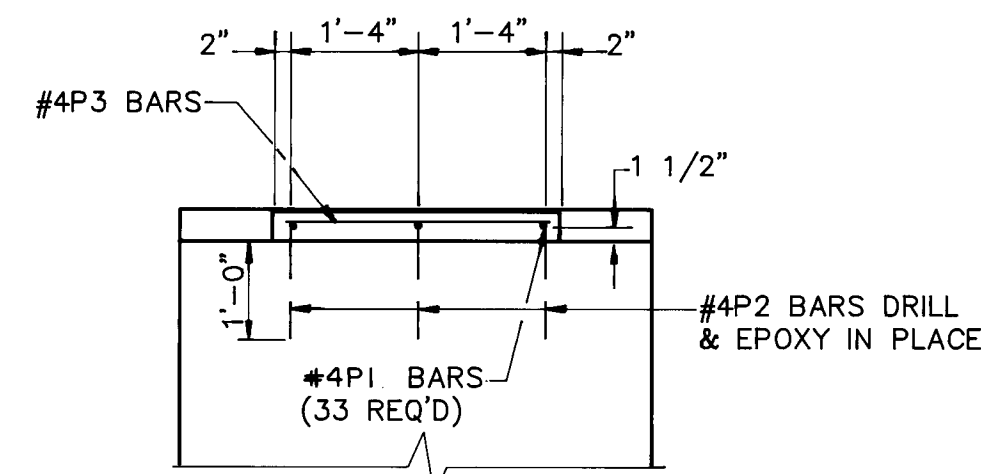
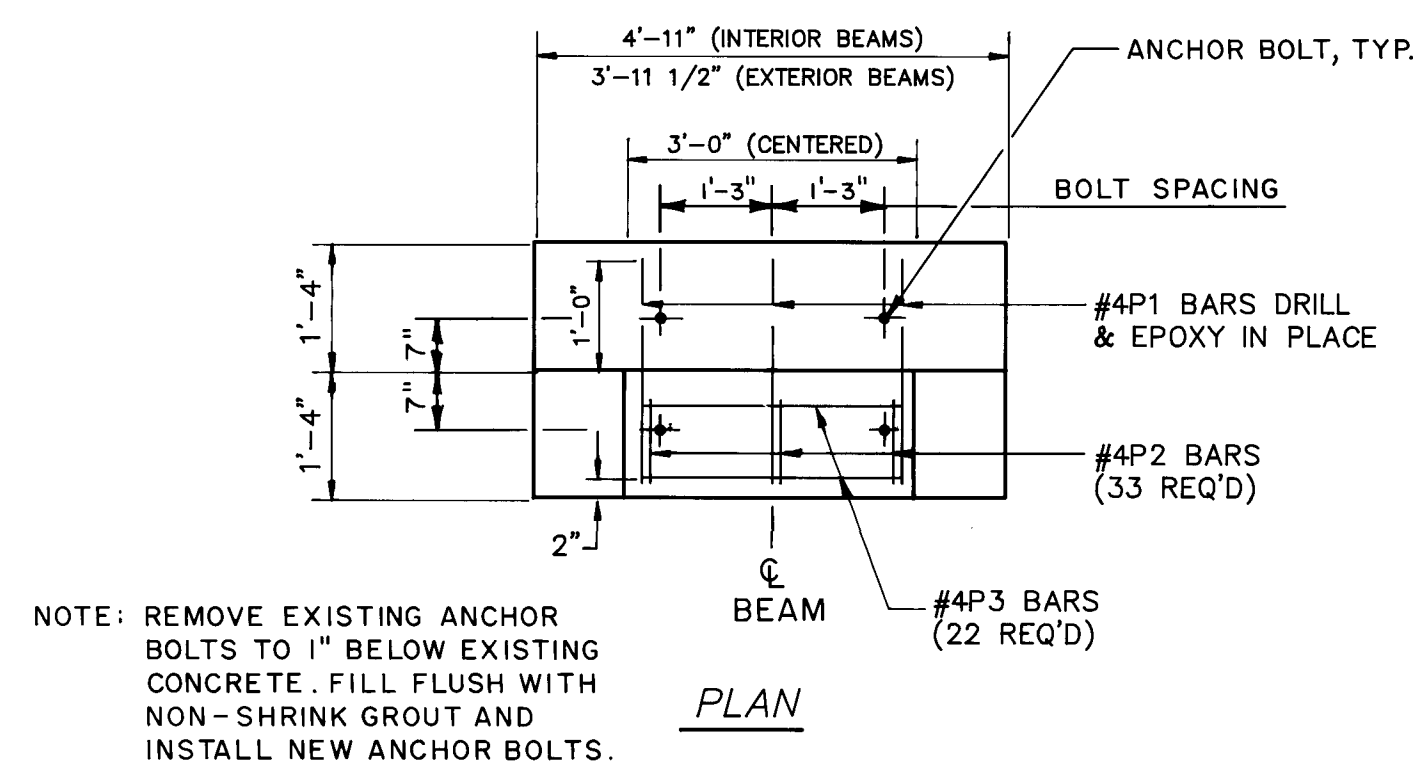
Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040

3/21/94
DATE

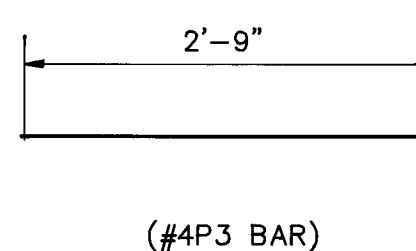
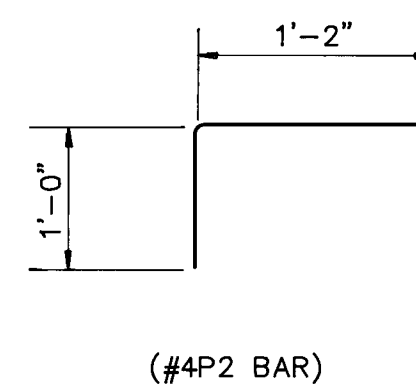
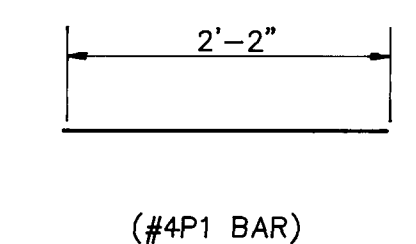


WEST SIDE ELEVATION

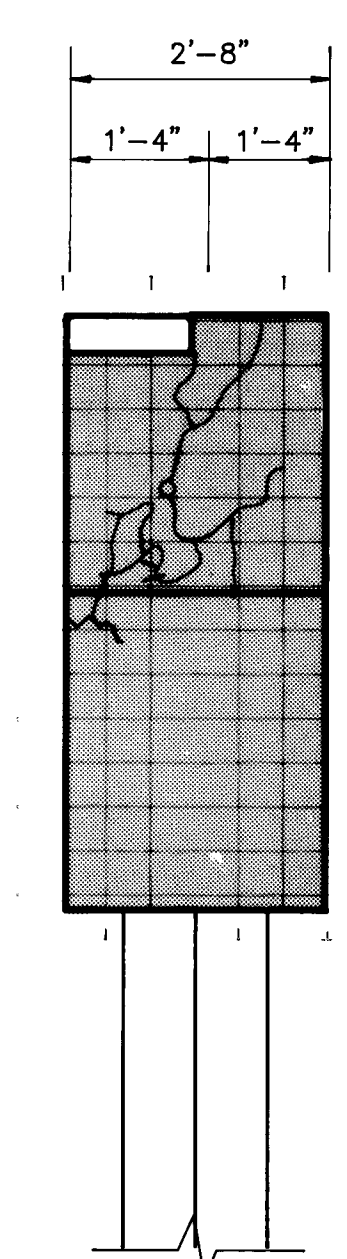
SCALE: 1/2"=1'-0" (LOOKING EAST)



BEAM SEAT ELEVATION DETAIL



SOUTH ELEVATION



NORTH ELEVATION

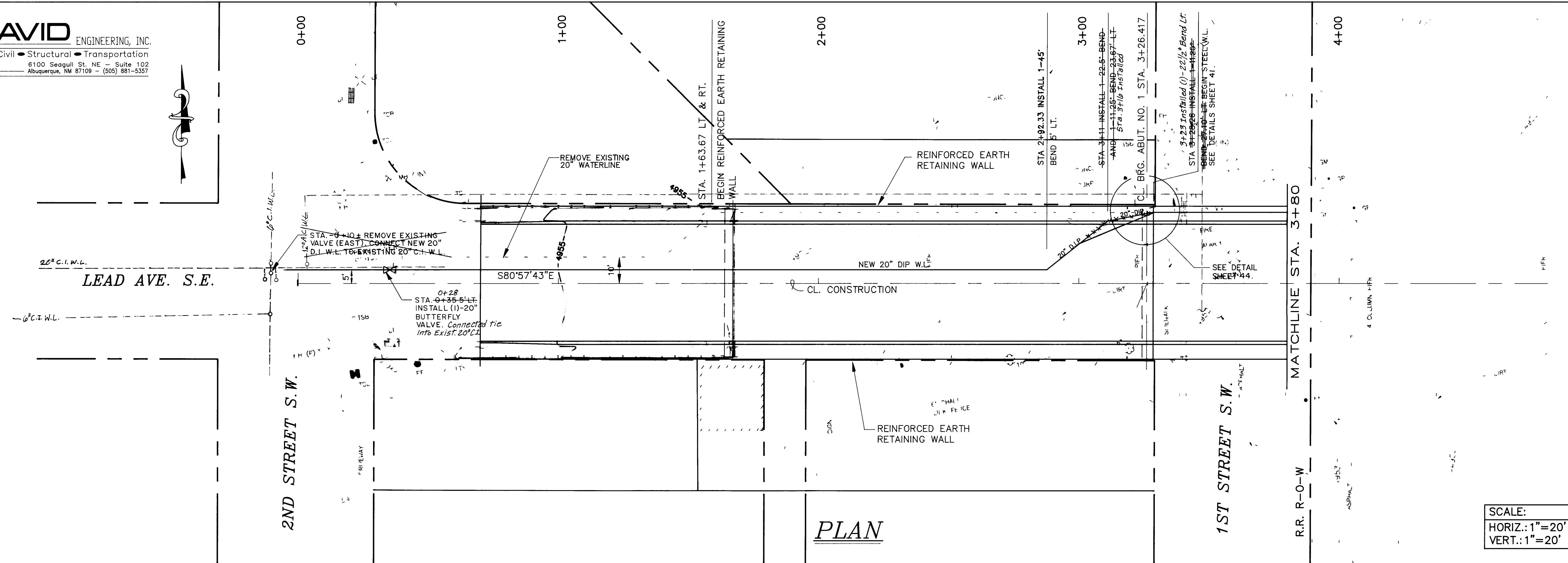
LEGEND

- CRACK IN CONCRETE
- AREA OF CONCRETE DELAMINATION
- 10" CONCRETE CORE SAMPLE
- 2" CONCRETE CORE SAMPLE
- AREA OF CONCRETE SPALLING
- 5 1/2" X 5 1/2" GRID
- REPAIR AREAS AS DETERMINED IN FIELD

ESTIMATED REPAIR QUANTITIES FOR PIER NO. 7 (INVESTIGATION PERFORMED 10/90)	
ITEM	EST. QUANT.
EPOXY INJECTION	3.00 GALLONS
*AREA OF DELAMINATION	103.00 SQ. FT.
*INCLUDES SPALLED AREAS	

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Civil • Structural • Transportation
6100 Seagull St. NE - Suite 102
Albuquerque, NM 87109 - (505) 881-5357

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE PIER NO. 7 (EXISTING PIER NO. 9)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>[Signature]</i>	3-1-93	Water	<i>[Signature]</i>	
Transportation	<i>[Signature]</i>	6-17-92	Waste Water	<i>[Signature]</i>	
Hydrology	<i>[Signature]</i>				
DRAWING NO. 4018.90		MAP NO. K-14		SHEET 37 NO. 47	

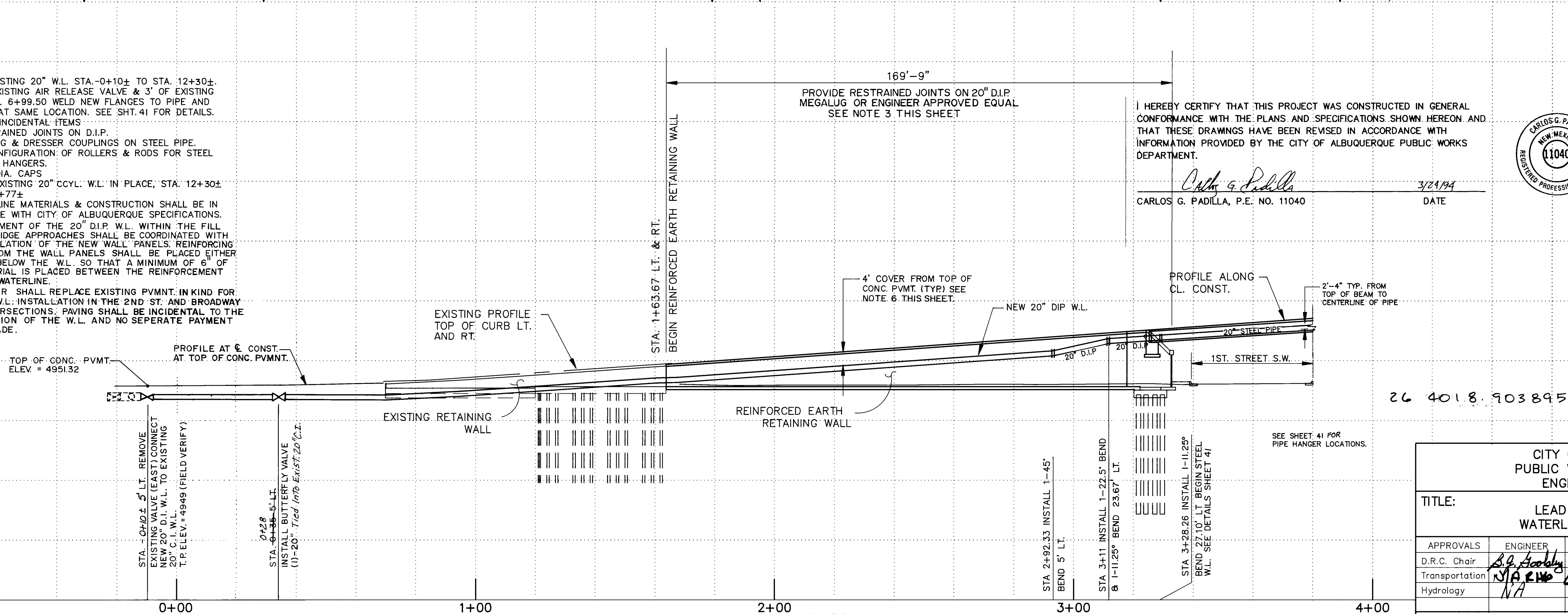


PLAN

SCALE:
HORIZ.: 1"=20'
VERT.: 1"=20'

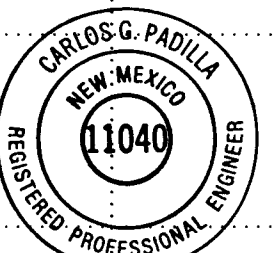
NOTES:

- 1) REMOVE EXISTING 20" W.L. STA. 0+10± TO STA. 12+30±.
- 2) SALVAGE EXISTING AIR RELEASE VALVE & 3' OF EXISTING PIPE @ STA. 6+99.50 WELD NEW FLANGES TO PIPE AND REINSTALL AT SAME LOCATION. SEE SHT. 41 FOR DETAILS.
- 3) WATERLINE INCIDENTAL ITEMS:
 - 1.) RESTRAINED JOINTS ON D.I.P.
 - 2.) FITTING & DRESSER COUPLINGS ON STEEL PIPE.
 - 3.) RECONFIGURATION OF ROLLERS & RODS FOR STEEL PIPE HANGERS.
 - 4.) 20" DIA. CAPS.
- 4.) ABANDON EXISTING 20" CCYL. W.L. IN PLACE, STA. 12+30± TO STA. 13+77±.
- 5.) ALL WATERLINE MATERIALS & CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF ALBUQUERQUE SPECIFICATIONS.
- 6.) THE PLACEMENT OF THE 20" D.I.P. W.L. WITHIN THE FILL AT THE BRIDGE APPROACHES SHALL BE COORDINATED WITH THE INSTALLATION OF THE NEW WALL PANELS. REINFORCING STRAPS FROM THE WALL PANELS SHALL BE PLACED EITHER ABOVE OR BELOW THE W.L. SO THAT A MINIMUM OF 6" OF FILL MATERIAL IS PLACED BETWEEN THE REINFORCEMENT AND THE WATERLINE.
- 7.) CONTRACTOR SHALL REPLACE EXISTING P.V.M.T. IN KIND FOR THE 20" W.L. INSTALLATION IN THE 2ND ST. AND BROADWAY BLVD. INTERSECTIONS. PAVING SHALL BE INCIDENTAL TO THE INSTALLATION OF THE W.L. AND NO SEPARATE PAYMENT WILL BE MADE.



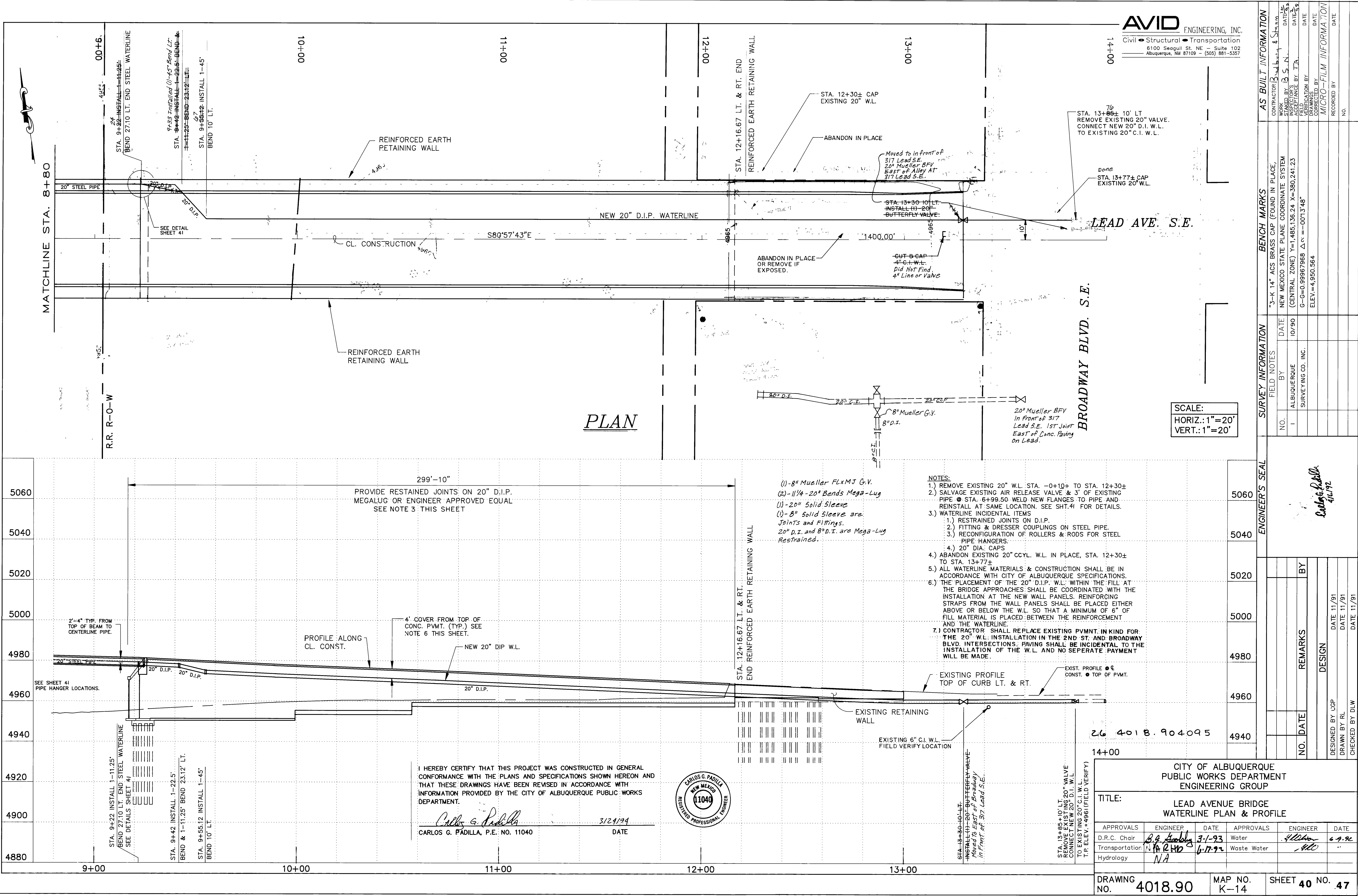
I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

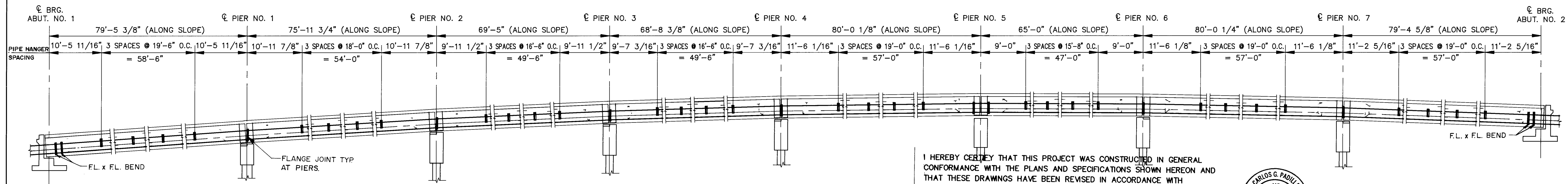
Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040
3/24/94
DATE



26 4018.903895

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE WATERLINE PLAN & PROFILE					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	3/24/94	3-1-93	Water	6-9-92	
Transportation	6-17-92		Waste Water		
Hydrology	NA				
DRAWING NO. 4018.90		MAP NO. K-14		SHEET 38 NO. 47	





NOTE: ALL BEAMS SUPPORTING THE 20" DIA. WATERLINE (i.e. BEAM LINE 11) SHALL BE SET IN PLACE AND SECURELY ATTACHED TO THE ANCHOR BOLTS IMMEDIATELY UPON ERECTION. THIS ACTION IS TO INSURE THE STABILITY OF THE BEAMS SUPPORTING THE WATERLINE.

PIPE ELEVATION ALONG BRIDGE

NO SCALE

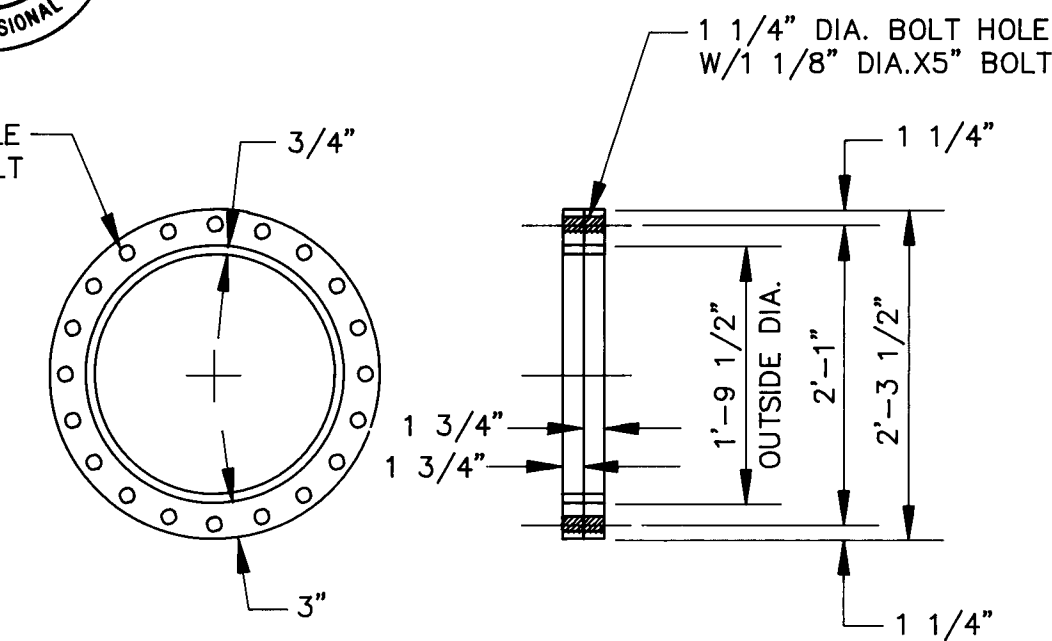
I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040

3/24/94
DATE



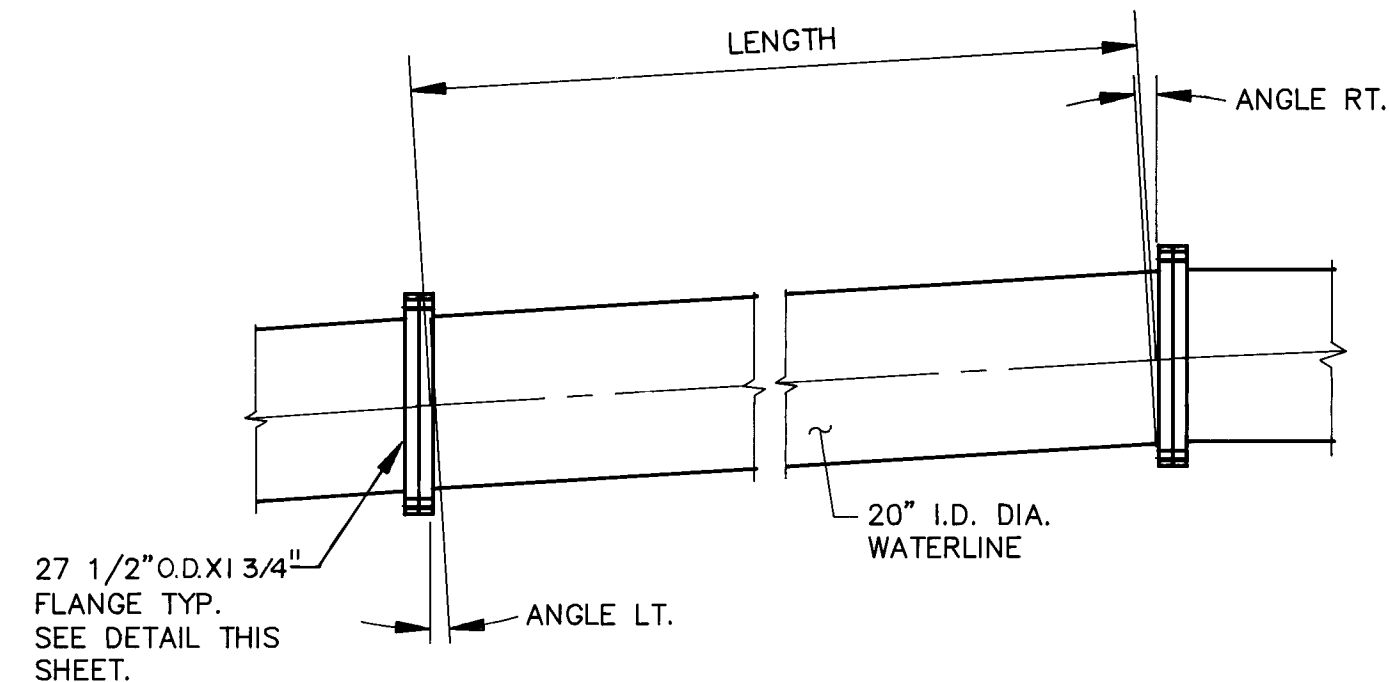
1 1/4" DIA. BOLT HOLE
W/ 1 1/8" DIA. X 5" BOLT
(20 REQUIRED)



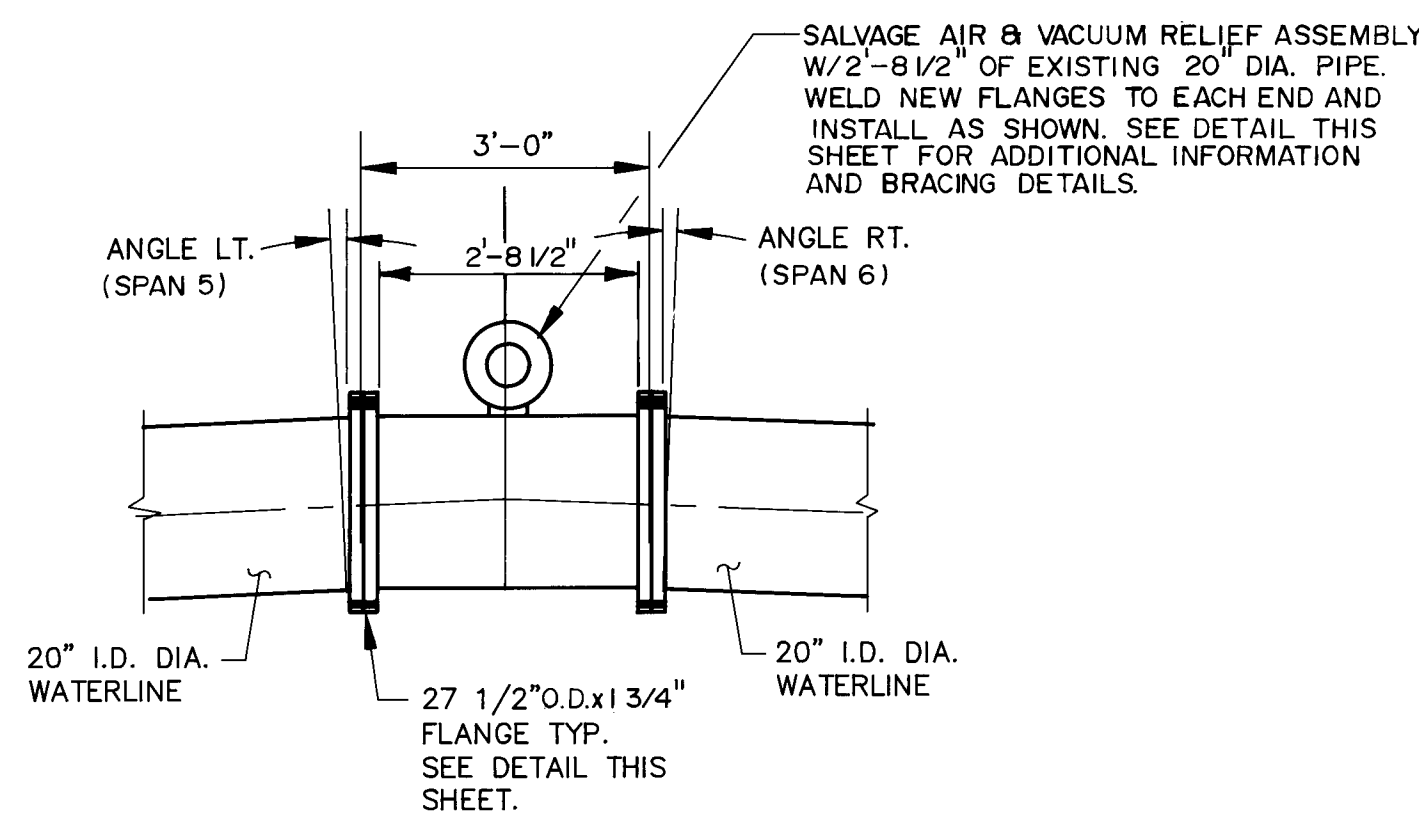
FLANGE DETAIL

PIPE FABRICATION DATA

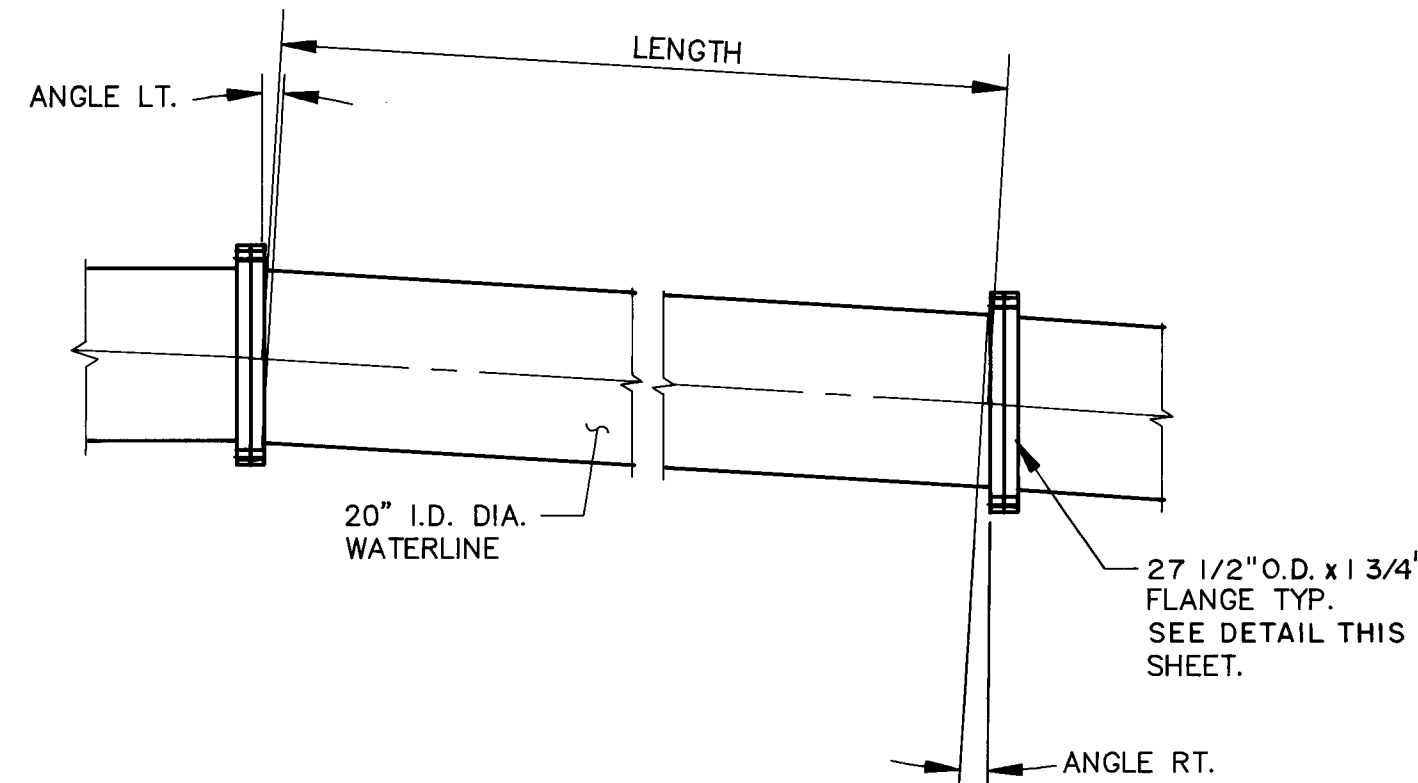
SPAN NO.	LENGTH	ANGLE LT.	ANGLE RT.
SPAN 2	75'-8 3/16"	03°30'27"	03°30'27"
SPAN 3	69'-1 5/16"	02°34'13"	02°34'13"
SPAN 4	68'-4 13/16"	01°41'19"	01°41'19"
SPAN 5	79'-8 1/2"	00°44'02"	00°44'02"
SPAN 6	64'-8 1/2"	00°12'23"	00°12'23"
SPAN 7	79'-8 1/2"	01°08'27"	01°08'27"



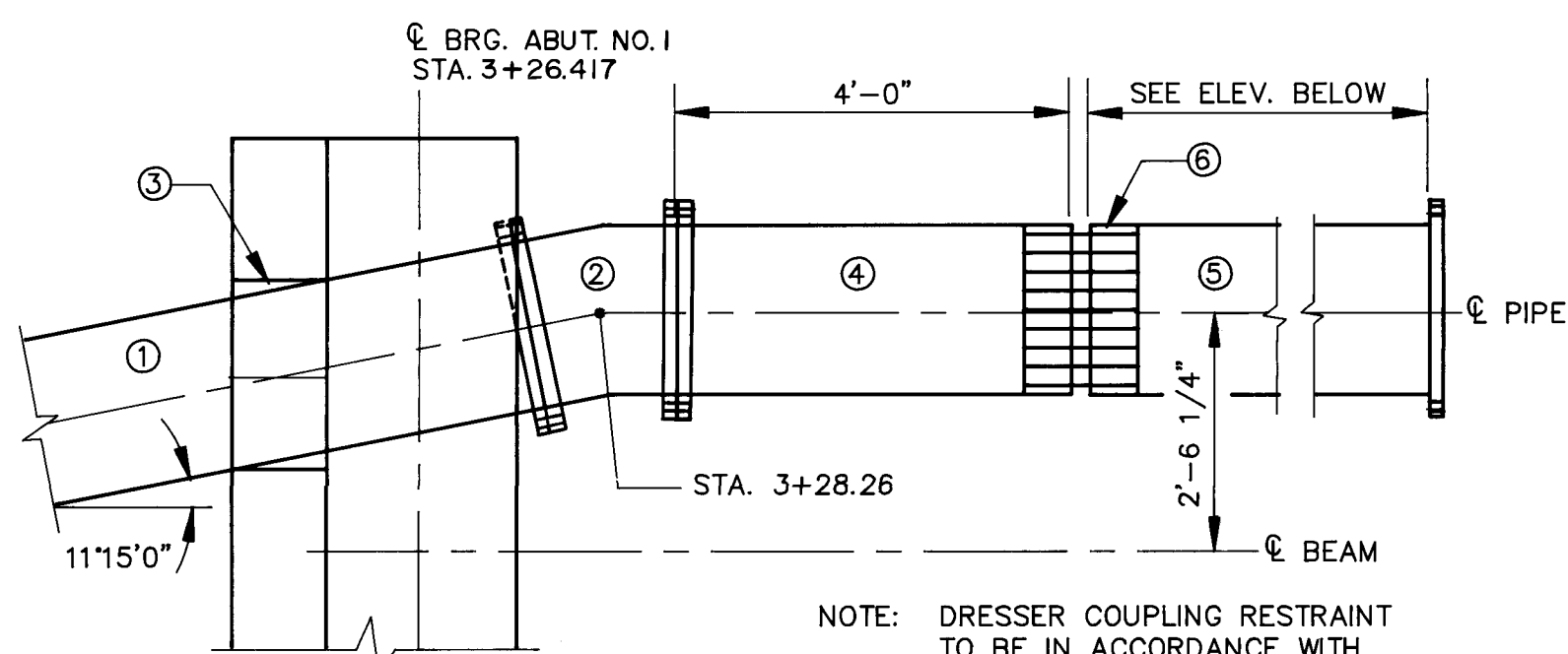
DETAIL AT FLANGES SPANS 2 THRU 5



DETAIL AT FLANGES PIER 5



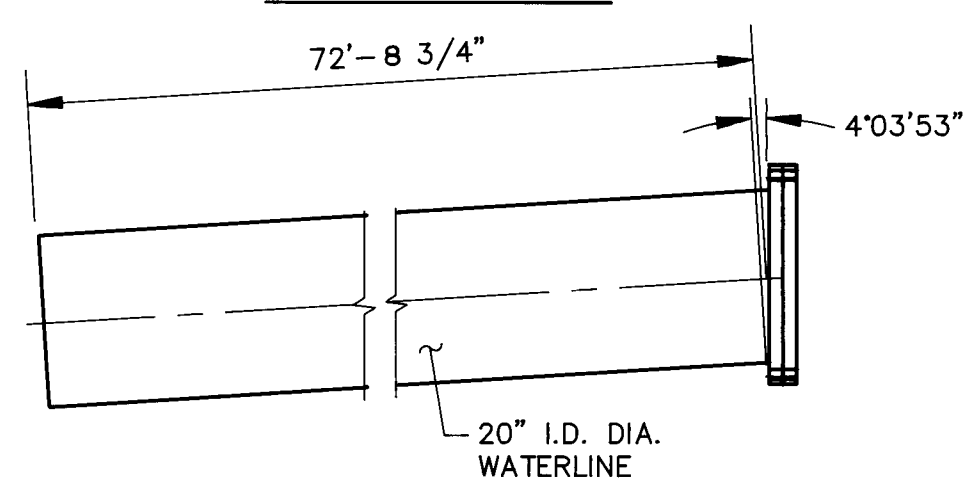
DETAIL AT FLANGES SPANS 6 THRU 7



NOTE: DRESSER COUPLING RESTRAINT TO BE IN ACCORDANCE WITH CITY STANDARD DRAWING 2351.

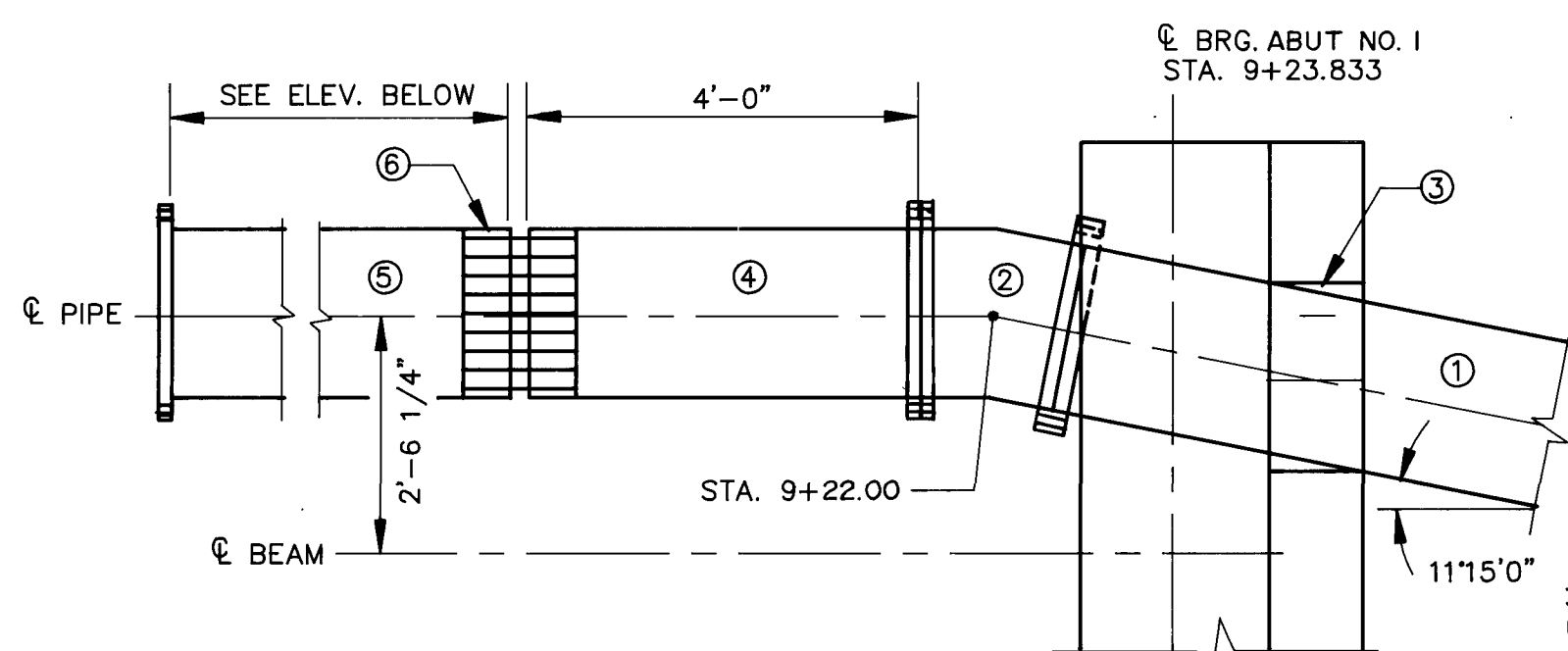
- 20" D.I.P. F.L. X M.J.
- 20" D.I.P. 11/25" BEND F.L. X F.L.
- 24" P.V.C. SLEEVE THRU BACKWALL
- 20" STEEL PIPE F.L. X P.E. (FL. ANGLE LT. = 4°03'53")
- 20" STEEL PIPE F.L. X P.E.
- DRESSER COUPLING (RESTRAINED) SEE NOTE THIS SHEET.

PLAN (ABUT. NO. 1)



ELEVATION (SPAN NO. 1)

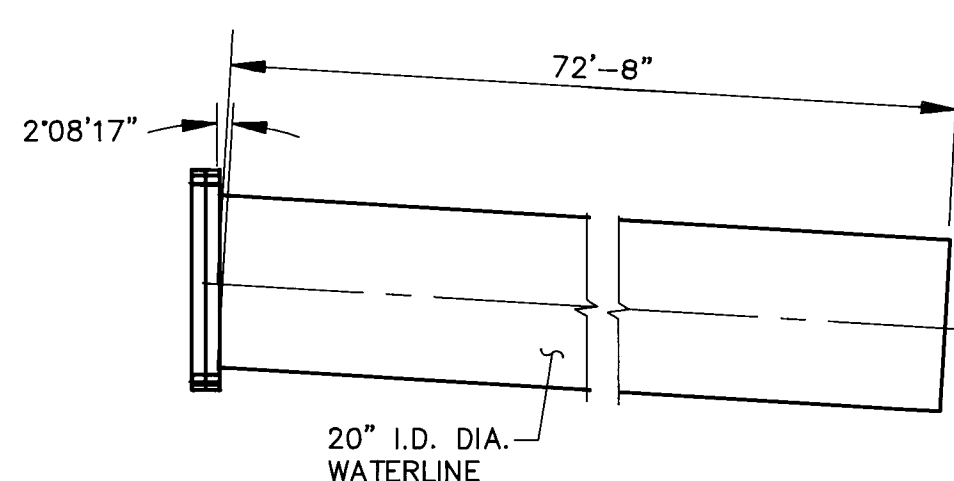
WATERLINE DETAIL AT ABUT. NO. 1/SPAN NO. 1



NOTE: DRESSER COUPLING RESTRAINT TO BE IN ACCORDANCE WITH CITY STANDARD DRAWING 2351.

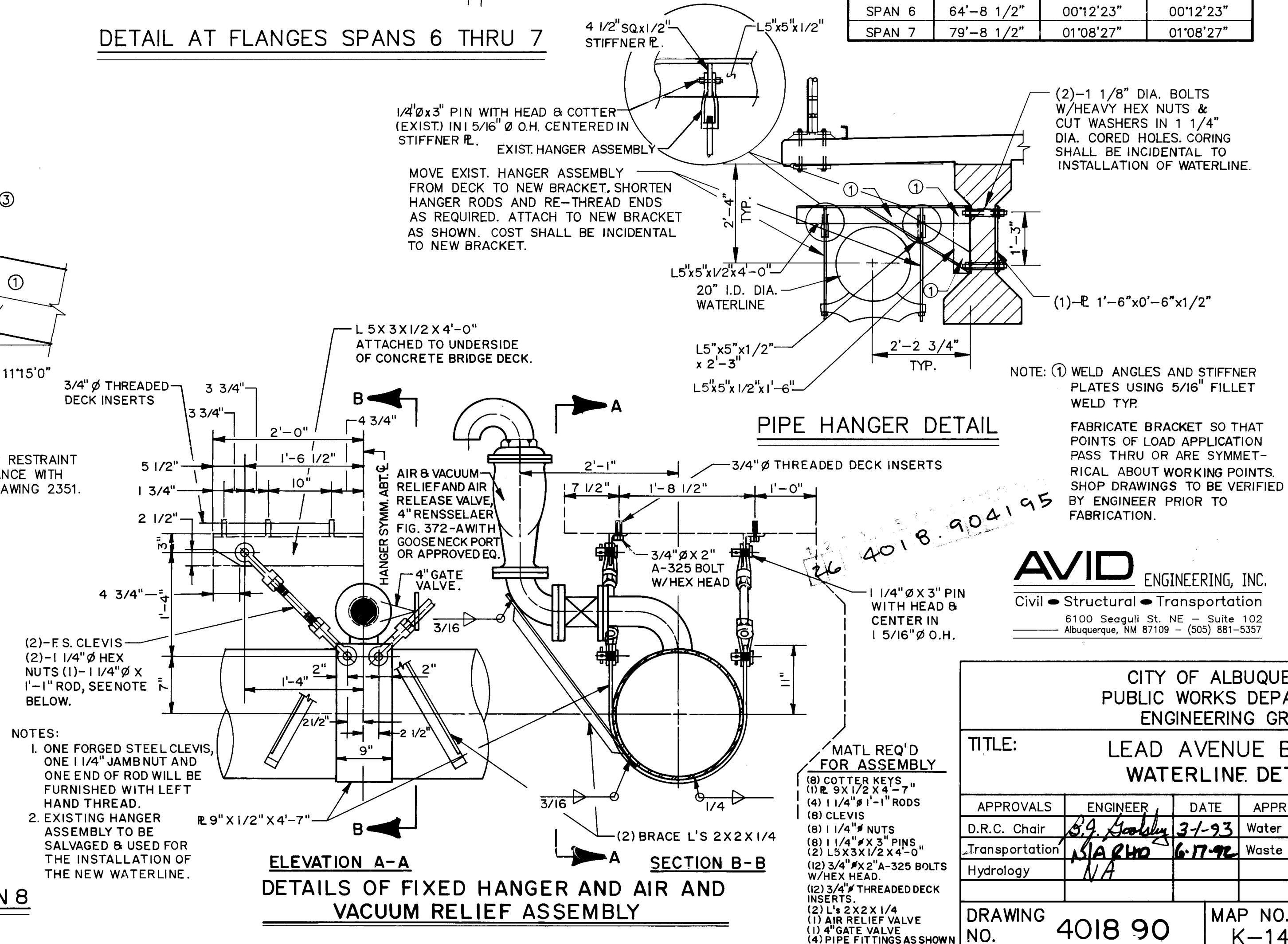
- 20" D.I.P. F.L. X M.J.
- 20" D.I.P. 11/25" BEND F.L. X F.L.
- 24" P.V.C. SLEEVE THRU BACKWALL
- 20" STEEL PIPE F.L. X P.E. (FL. ANGLE RT. = 2°08'17")
- 20" STEEL PIPE F.L. X P.E.
- DRESSER COUPLING (RESTRAINED) SEE NOTE THIS SHEET.

PLAN (ABUT. NO. 2)



ELEVATION (SPAN 8)

WATERLINE DETAIL AT ABUT. NO. 2/SPAN 8



PIPE HANGER DETAIL

NOTE: (1) WELD ANGLES AND STIFFENER PLATES USING 5/16" FILLET WELD TYP.
FABRICATE BRACKET SO THAT POINTS OF LOAD APPLICATION PASS THRU OR ARE SYMMETRICAL ABOUT WORKING POINTS. SHOP DRAWINGS TO BE VERIFIED BY ENGINEER PRIOR TO FABRICATION.

AVID ENGINEERING, INC.
Civil • Structural • Transportation
6100 Seagull St. NE - Suite 102
Albuquerque, NM 87109 - (505) 881-5357

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: LEAD AVENUE BRIDGE
WATERLINE DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>[Signature]</i>	3-1-93	Water	<i>[Signature]</i>	6-1-92
Transportation	<i>[Signature]</i>	6-17-92	Waste Water	<i>[Signature]</i>	
Hydrology	<i>[Signature]</i>				
DRAWING NO.	4018 90	MAP NO.	K-14	SHEET	41 NO. 47



1. Close Valve No. 250
2. Close Valve No. 294
3. Close Valve No. 243
4. Close Valve No. 561
5. Open Fire Hydrant No. 90 to relieve pressure on line
6. When line is drained, close valve No. 249
7. Close Fire Hydrant No. 90.
8. Open Valve No. 294.
9. Open Valve No. 243.
10. Remove existing 20" water line as shown on Sheets 38 through 41.
11. Install new 20" water line and connect to existing waterline as shown on Sheets 38 through 41.

1. Close valve No. 563
2. Close valve No. 562.
3. Remove Valve No. 561.
4. Verify New Valve 561A is closed.
5. Open Valves No. 562 and 563.

1. Verify Valve No. 249 is still closed (see above).
2. Close Valve No. 292.
3. Close Valve No. 245.
4. Close Valve No. 248.
5. Remove Valve No. 250.
6. Verify New Valve 250A is closed.
7. Open Valves 248, 245, and 292.

1. Verify New Air and Vacuum valve installed at high point of 20" line is open
2. Crack open Valve No. 561A to allow filling of line from the east.
3. Crack open Valve No. 250A to allow filling of line from the west.
4. When line is filled close Valve 250A.
5. Close Valve No. 294.
6. Close Valve No. 243.
7. Open Valve No. 249.
8. Open Fire Hydrant No. 90.
9. Flush 20" line between Valve No. 561A and Valve No. 249.
10. Upon completion of flushing program open Valve No. 250A and close Valve No. 561A.
11. Flush new water line between Valve No. 250A and 249.
12. Close Fire Hydrant No. 90 and open Valves No. 561A, 243, and 294.

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWNGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

Carlos G. Padilla 3/29/90
CARLOS G. PADILLA, P.E. NO. 11040 DATE



26 4018.904295

TITLE: LEAD AVENUE BRIDGE PROJECT
WATER SHUTOFF PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>R. J. Amodeo</i>	3-1-93	Water	<i>R. J. Amodeo</i>	2/24/93
Transportation	<i>N. A. Rho</i>	2-12-93	Waste Water	<i>N</i>	"
Hydrology	<i>N.A. JOC</i>	2-22-93			
DRAWING NO.	4018.90	MAP NO. K-14	SHEET 42	OF 47	

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.

2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.

3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.

4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.

5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.

6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.

8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.

9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.

10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.

11. CONTRACTOR SHALL NOT BEGIN WORK BEFORE 8:30 A.M. OR END WORK AFTER 4:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELLED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

19. 24 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.

25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

PROJECT CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. SEE SHEET 44 FOR SEQUENCING AND SPECIAL SIGNS FOR TRAFFIC CONTROL.

2. ANY MODIFICATIONS OR CHANGES TO TRAFFIC CONTROL SHALL CONFORM WITH THE CITY OF ALBUQUERQUE TYPICAL TRAFFIC CONTROL LAYOUTS AND THE LATEST EDITION OF THE M.U.T.C.D., AND APPROVED BY THE ENGINEER.

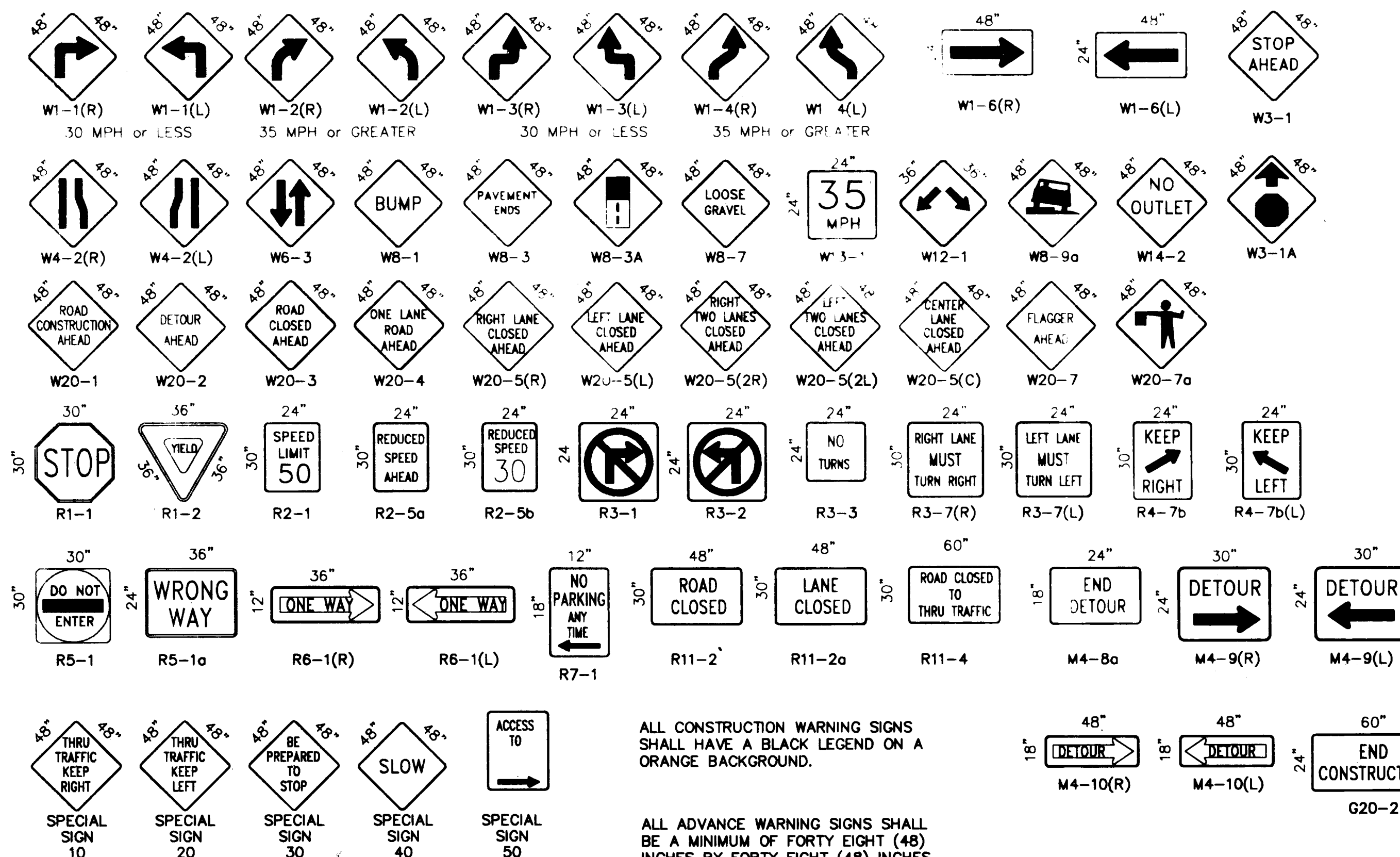
3. THIS PROJECT'S TRAFFIC CONTROL REQUIRES SIGNALIZATION MODIFICATIONS AND EQUIPMENT. INSTALLATION AND MODIFICATIONS SHALL BE COORDINATED WITH THE CITY OF ALBUQUERQUE. ALL SIGNALIZATION EQUIPMENT AS INDICATED IN THE TRAFFIC CONTROL PLANS SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR TRAFFIC CONTROL AND NO ADDITIONAL PAYMENT WILL BE MADE THEREFORE.

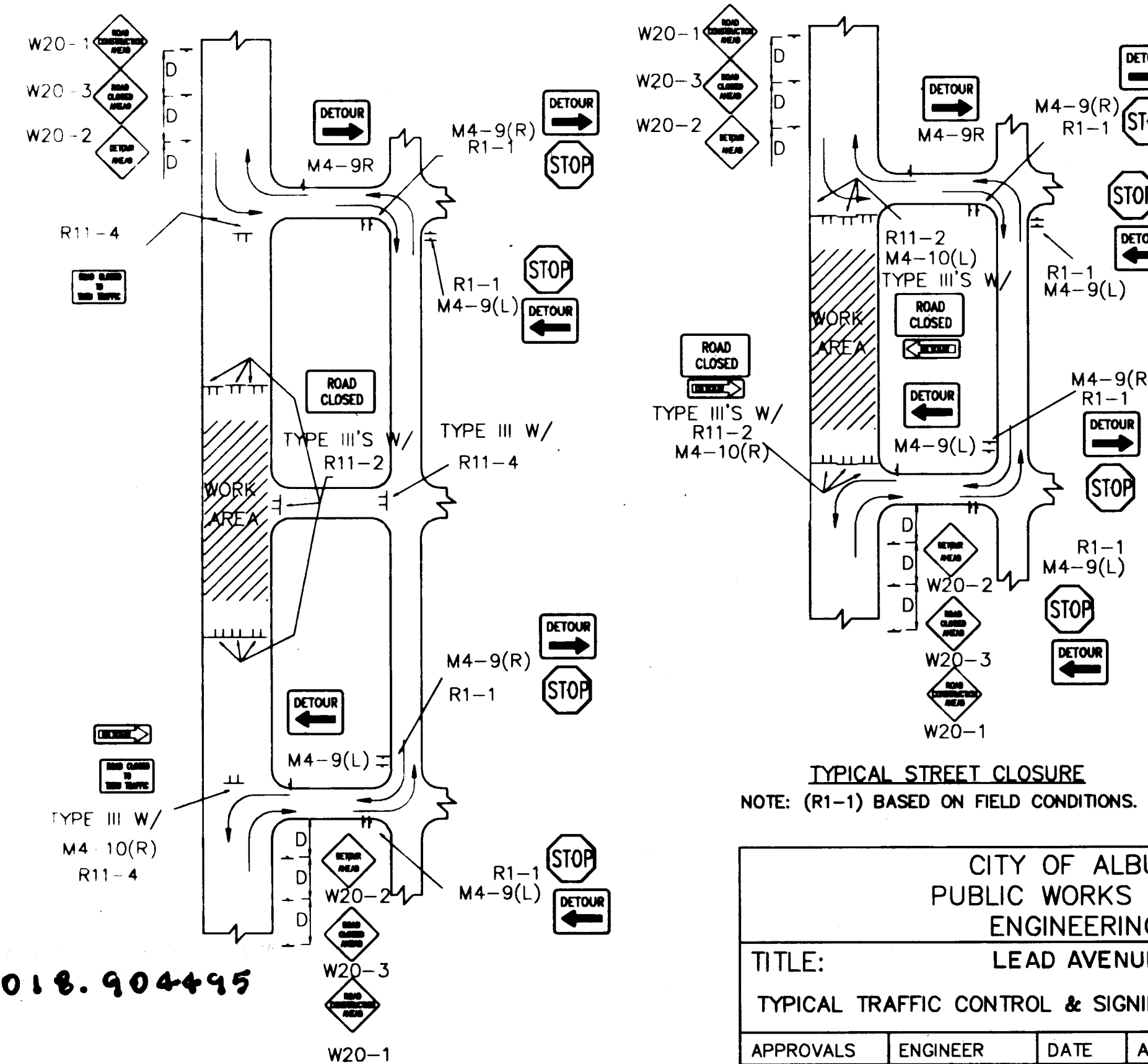
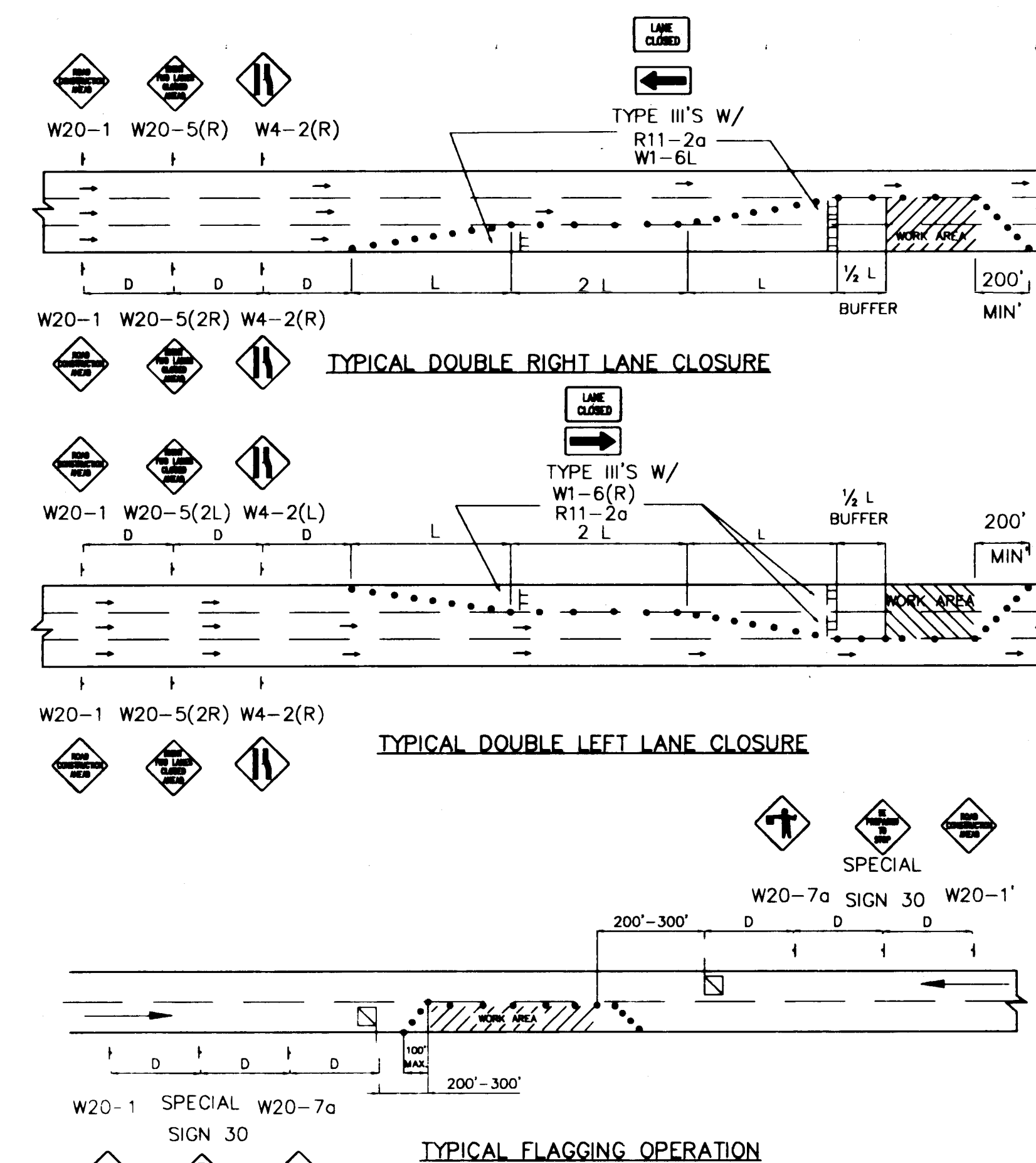
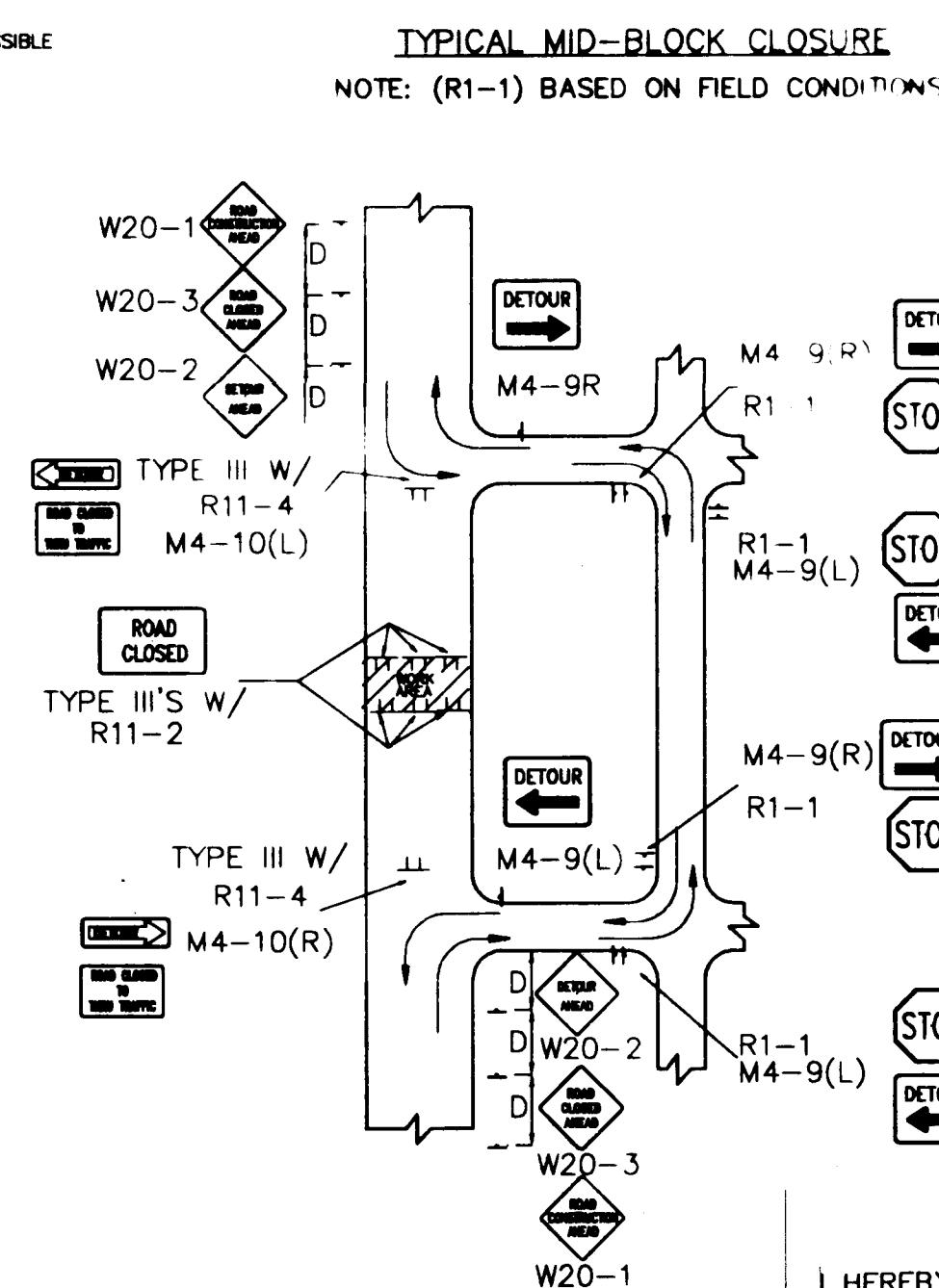
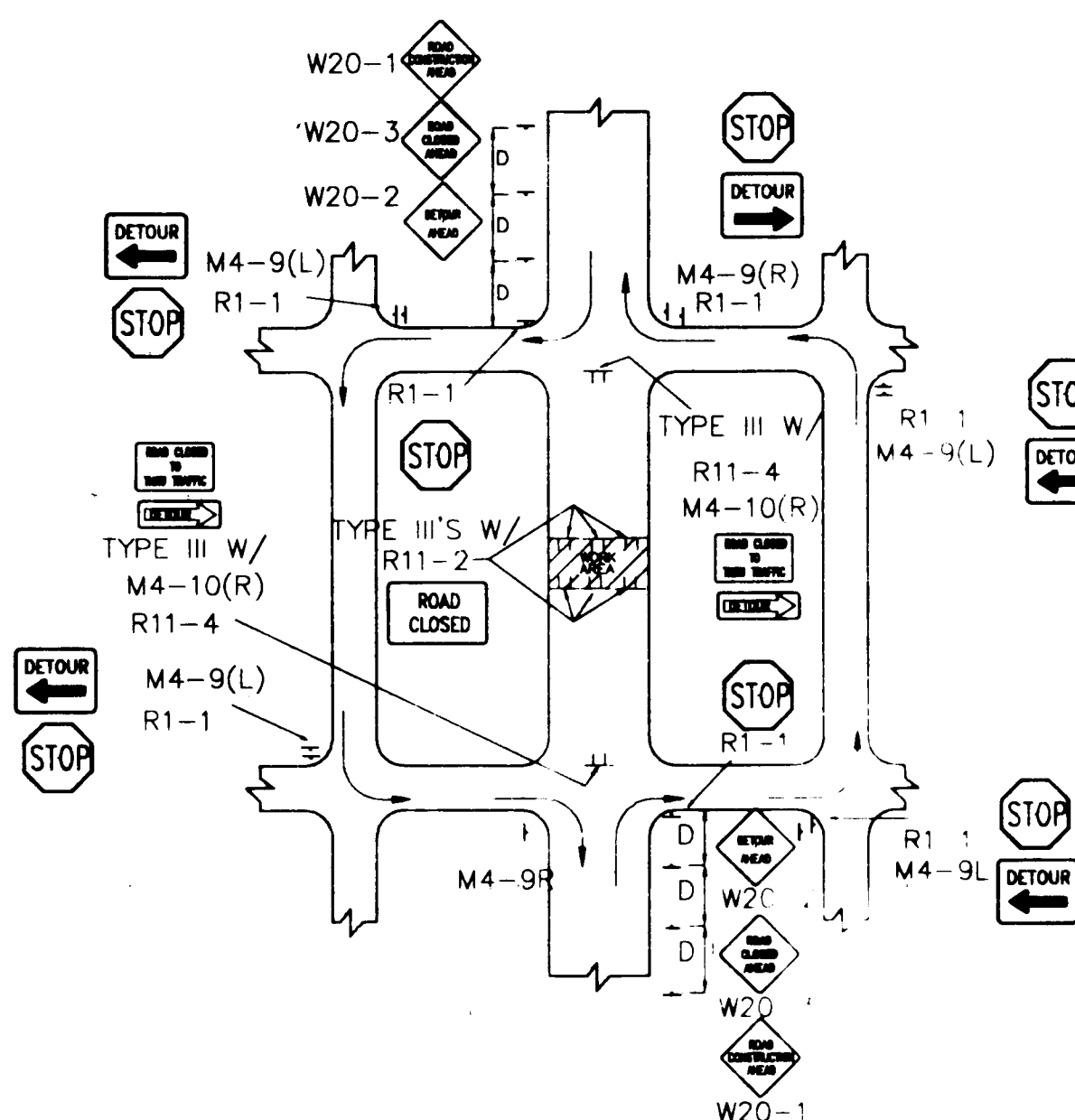
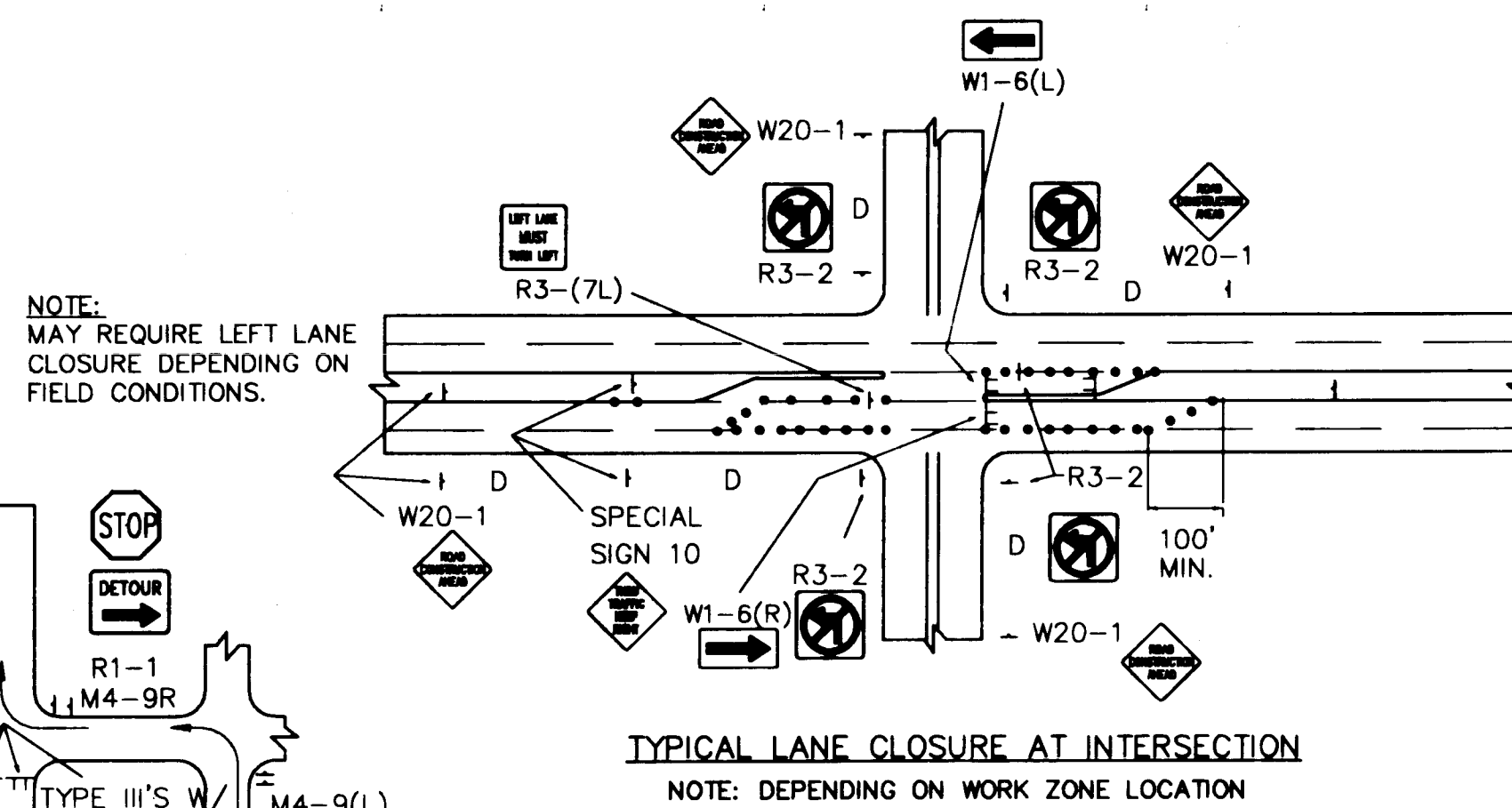
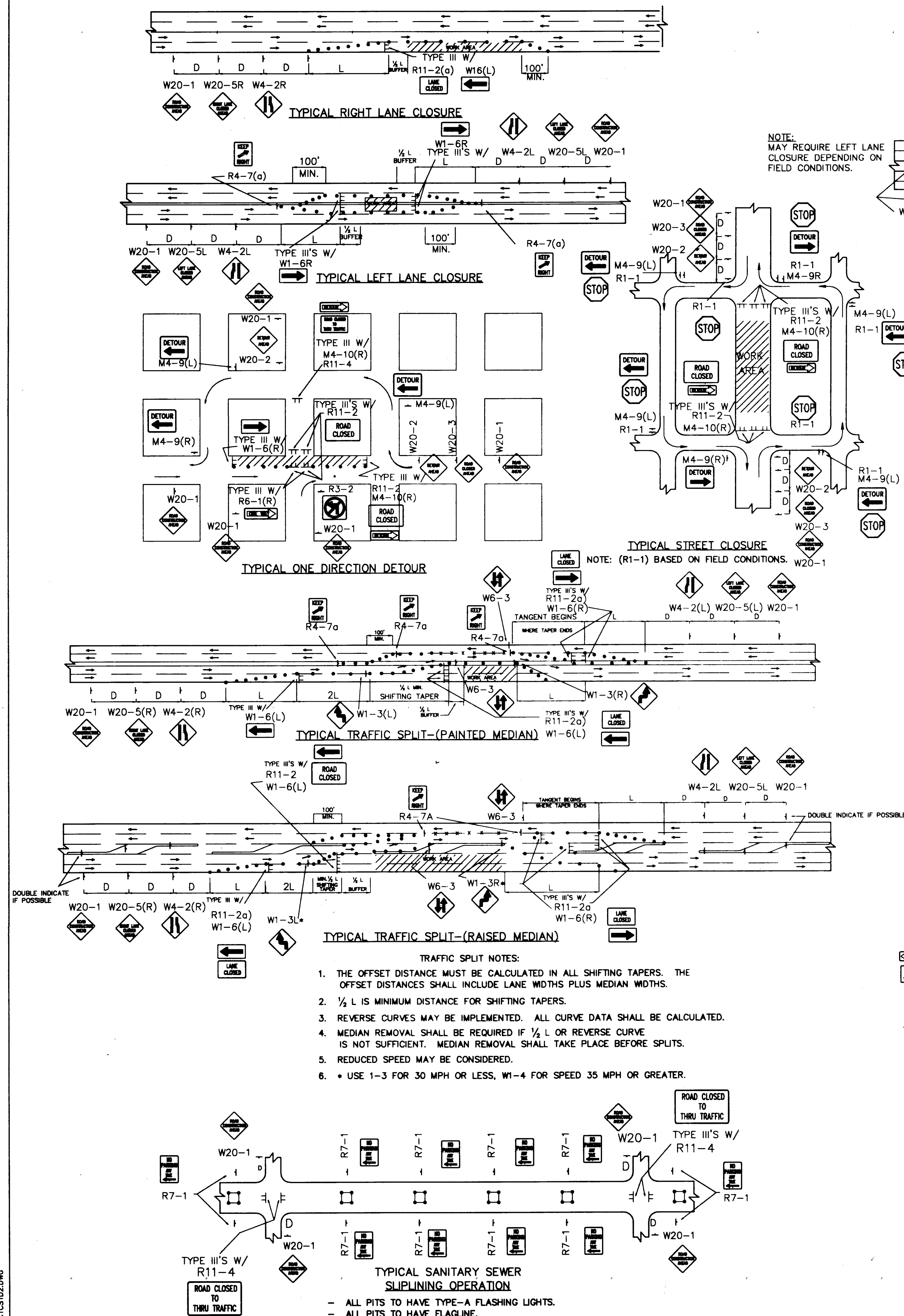
I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040
DATE 3/24/94



SIGN FACE DETAILS





26 4018.904495

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH THE INFORMATION PROVIDED BY THE CITY OF TYPICAL STREET CLOSURE NOISE/TRAFFIC BASED ON FIELD COND DEPARTMENT.

Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040

3/24/94
DATE

[illegible]

NO LEFT
TURN
AT SECOND ST

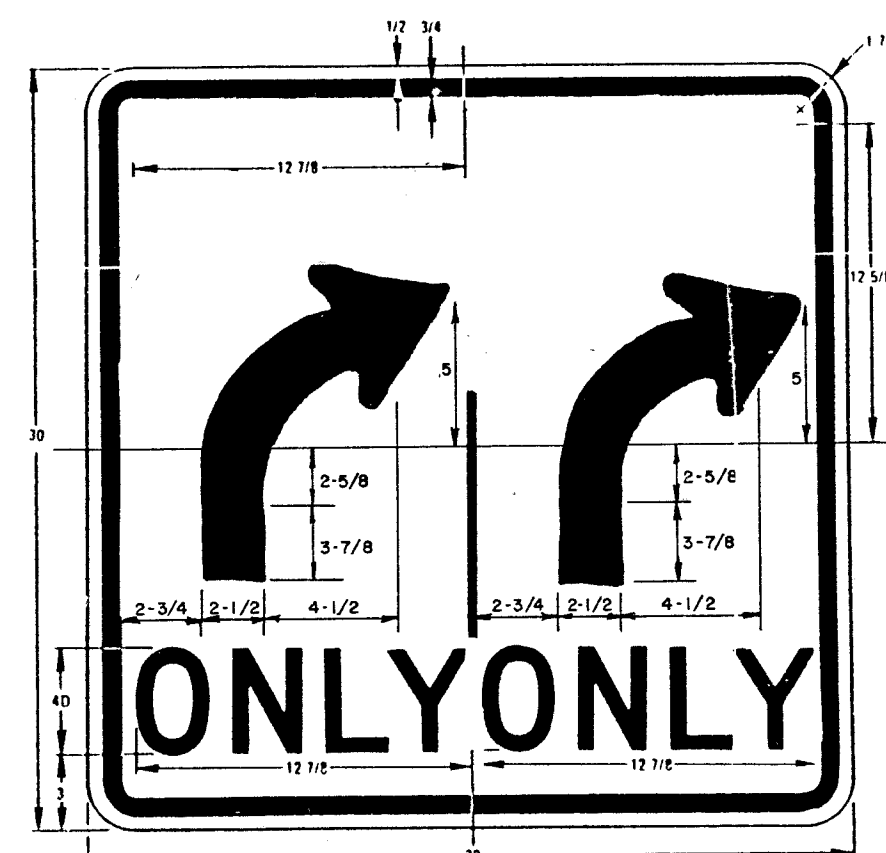
4th Series C
B/O - RB

ACCESS
TO
SANITARY
TORTILLA
FACTORY

W/BBLUE - RB, RL

ACCESS
TO
SANITARY
TORTILLA
FACTORY

W/BBLUE - RB, RL



30" x 30"
B/W - RB

BRIDGE CONSTRUCTION (See Sheet 45)

1. CLOSE LEAD AVE BRIDGE TO TRAFFIC.
 2. LEAD AVE TO BE REDUCED TO TWO LANES WESTBOUND AT BROADWAY BLVD.
 3. COAL AVE TO BE REDUCED TO TWO LANES EASTBOUND AT 2nd ST.
 4. LEAD AVE TRAFFIC TO BE DETOURED SOUTH ON BROADWAY BLVD TO COAL AVE, THEN WEST ON COAL AVE (2 LANES) TO 2nd ST. AT 2nd ST, DUAL RIGHT TURN FROM COAL AVE, THEN NORTH ON 2nd ST TO LEAD AVE.
 5. NO LEFT TURNS FROM COAL AVE TO 2nd ST.
 6. COAL AVE BRIDGE HAS TWO-WAY TRAFFIC.
 7. SIGNALIZATION MODIFICATIONS AT COAL AVE/2nd ST TO ACCOMMODATE DUAL RIGHT TURN.
 - A. REPLACE EXISTING CONTROLLER CABINET WITH NEW PEDESTAL TYPE "G" CABINET. EXISTING FOUNDATION TO BE USED.
 - B. REPLACE EXISTING CONTROLLER WITH NEW ECONOLITE ASC 8000/TS2 CONTROLLER.
- ALL WIRING CONNECTIONS, CONTROLLER TRANSFER, CONTROLLER PROGRAMMING AND SIGNAL TIMING SHALL BE PERFORMED BY THE CITY OF ALBUQUERQUE. CONTRACTOR SHALL NOTIFY MR. KEVIN BRODERICK (291-6220) 48 HOURS PRIOR TO PERFORMING ANY WORK ON THE SIGNAL TO COORDINATE CITY OF ALBUQUERQUE PERSONNEL TO BE PRESENT.
8. SIGNALIZATION MODIFICATIONS AT LEAD AVE/2nd ST:
 - A. REPLACE EXISTING CONTROLLER CABINET WITH NEW PEDESTAL TYPE "G" CABINET. EXISTING FOUNDATION TO BE USED.
 - B. REPLACE EXISTING CONTROLLER WITH NEW ECONOLITE ASC 8000/TS2 CONTROLLER.
 - C. CONTRACTOR SHALL PROVIDE FOR AN OFF DUTY POLICE OFFICER TO CONTROL TRAFFIC WHILE SIGNAL MODIFICATIONS ARE BEING PERFORMED.
- ALL WIRING CONNECTIONS, CONTROLLER TRANSFER, CONTROLLER PROGRAMMING AND SIGNAL TIMING SHALL BE PERFORMED BY THE CITY OF ALBUQUERQUE. CONTRACTOR SHALL NOTIFY MR. KEVIN BRODERICK (291-6220) 48 HOURS PRIOR TO PERFORMING ANY WORK ON THE SIGNAL TO COORDINATE CITY OF ALBUQUERQUE PERSONNEL TO BE PRESENT.
9. 2nd STREET TO BE REDUCED TO TWO LANES AT COAL AVE.
 10. 1st STREET TO BE CLOSED TO THROUGH TRAFFIC UNDER LEAD AVE BRIDGE FOR BEAM REMOVAL AND REPLACEMENT ACTIVITIES OR AS DIRECTED BY THE ENGINEER.

WATER LINE CONSTRUCTION IN 2nd ST AND BROADWAY BLVD (See Sheet 46)

1. CONSTRUCTION TO TAKE PLACE BETWEEN 9:00 AM AND 4:00 PM. BASIC BRIDGE CONSTRUCTION SIGNING TO BE IN PLACE WHEN WATER LINE CONNECTION WORK IS NOT BEING PERFORMED.
2. SIGNING MODIFICATIONS TO BRIDGE CONSTRUCTION SIGNING FOR WATER LINE CONSTRUCTION SHOWN ON SHEET.

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

Carlos G. Padilla 3/24/94
CARLOS G. PADILLA, P.E. NO. 11040 DATE



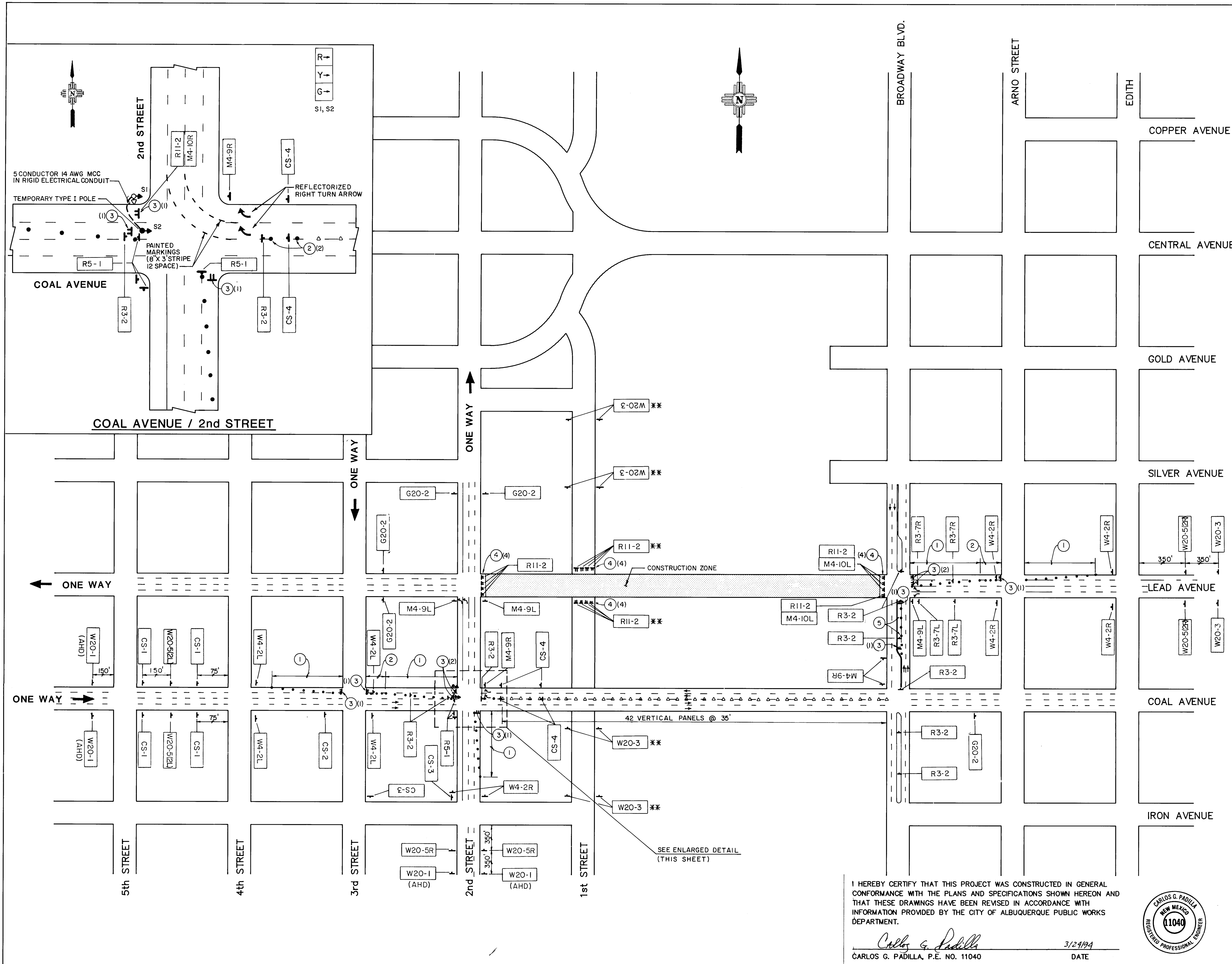
AVID ENGINEERING, INC.
Civil • Structural • Transportation
6100 Seagull St. NE - Suite 102
Albuquerque, NM 87109 - (505) 881-5357

216 4018.904595

	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP
TITLE:	LEAD AVENUE BRIDGE CONSTRUCTION SEQUENCING

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Transportation	<i>W.A. K.H.D.</i>	<i>2-22-93</i>	Waste Water	<i>A/G. CO.</i>	<i>2/22/93</i>
Hydrology	<i>W.D. D.C.</i>	<i>2-22-93</i>			
<i>CC</i>	<i>2-26-93</i>	<i>2-1-93</i>			
PROJECT NO. <i>401890</i>	MAP NO. <i>K-14</i>		SHEET <i>45</i> OF <i>47</i>		

		ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS	AS BUILT INFORMATION
				FIELD NOTES			CONTRACTOR
				NO.	BY	DATE	WORK STAKED BY
							INSTALLED BY
							ADJUSTED BY
							FIELD VERIFICATION BY
							CHECKED BY
							DATE CORRECTED BY
				MICRO-FILM INFORMATION			
DESIGNED BY				RECORDED BY			
DRAWN BY				DATE			
CHECKED BY				NO.			



- SIGNAL MODIFICATIONS***
1. ADD 3-SECTION HEAD TO EXISTING POLE ON NW CORNER OF COAL AVE/2nd ST. ADD TEMPORARY TYPE I POLE WITH 3-SECTION HEAD FOR WESTBOUND TRAFFIC.
 2. COVER PEDESTRIAN HEADS FOR EAST/WEST PEDESTRIAN MOVEMENT ON NORTH SIDE OF COAL AVE/2nd ST INTERSECTION.
 3. REPLACE EXISTING CONTROLLER AND CABINET WITH ECONOLITE CONTROLLER AND NEW TYPE "G" PEDESTAL CABINET AT THE INTERSECTION OF LEAD AVE/2nd ST AND COAL AVE/2nd ST.
 4. COVER PEDESTRIAN HEAD FOR NORTH/SOUTH PEDESTRIAN MOVEMENT ON WEST SIDE OF COAL AVE/BROADWAY BLVD.
- * ALL SIGNAL WORK SHALL BE COORDINATED WITH THE CITY OF ALBUQUERQUE.
- **TYPICAL SIGNING AND BARRICADING FOR CLOSURE OF 1st STREET TO THROUGH TRAFFIC FOR REMOVAL AND REPLACEMENT OF BEAMS OR AS DIRECTED BY THE ENGINEER.

- LEGEND**
- CONSTRUCTION ZONE
 - TYPE III BARRICADE
 - TRAFFIC SIGN
 - BARREL
 - VERTICAL PANEL
 - DIRECTION OF TRAVEL

- KEYED NOTES**
- 1 245' TAPER - 8 BARRELS @ 35' SPACING
 - 2 500' TRANSITION W/BARRELS @ 35'
 - 3 TYPE III BARRICADES (#) W/R11-2a
 - 4 TYPE III BARRICADES (#) W/R11-2
 - 5 TANGENT W/ BARRELS @ 35'

NOTE:
DIMENSIONS SHALL CONTROL FOR
PLACEMENT OF TRAFFIC CONTROL
DEVICES, TAPER LENGTHS AND
TRANSITION LENGTHS.

AVID ENGINEERING, INC.
Civil • Structural • Transportation
6100 Seagull St. NE - Suite 102
Albuquerque, NM 87109 - (505) 881-5357

26 4018.904695

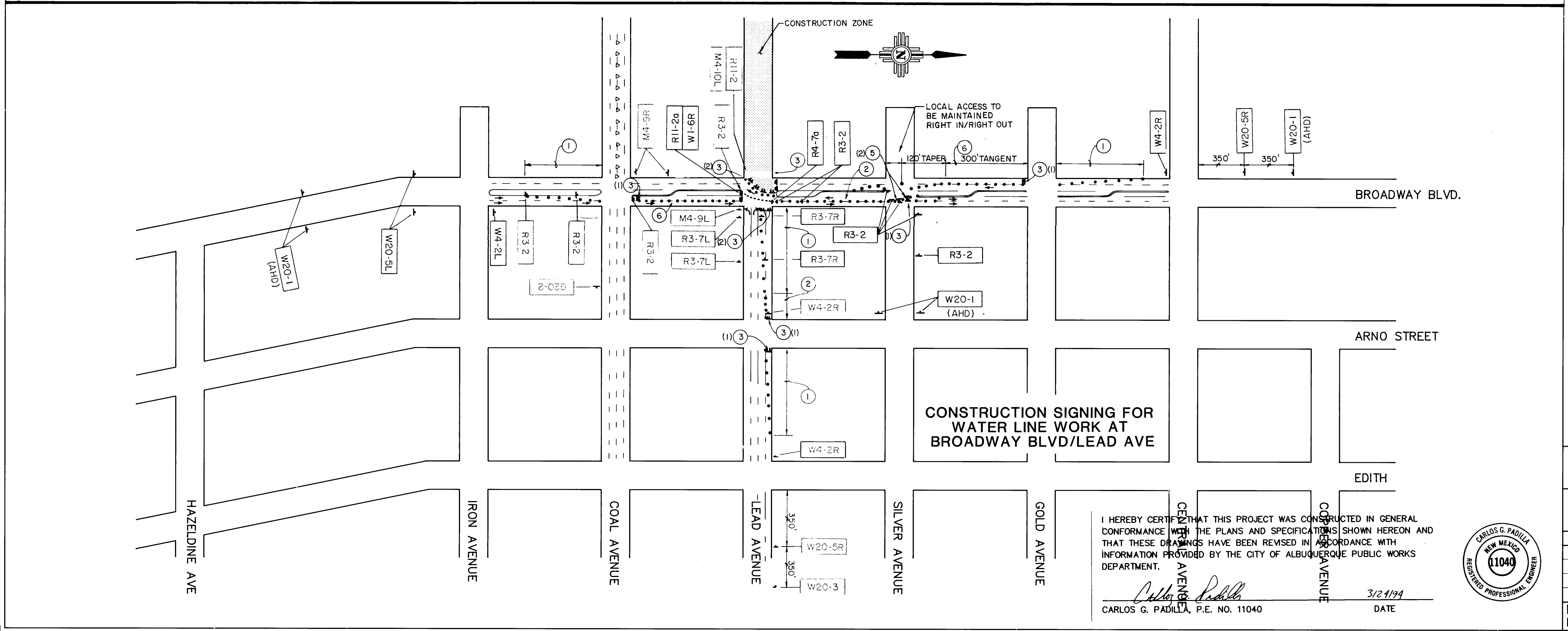
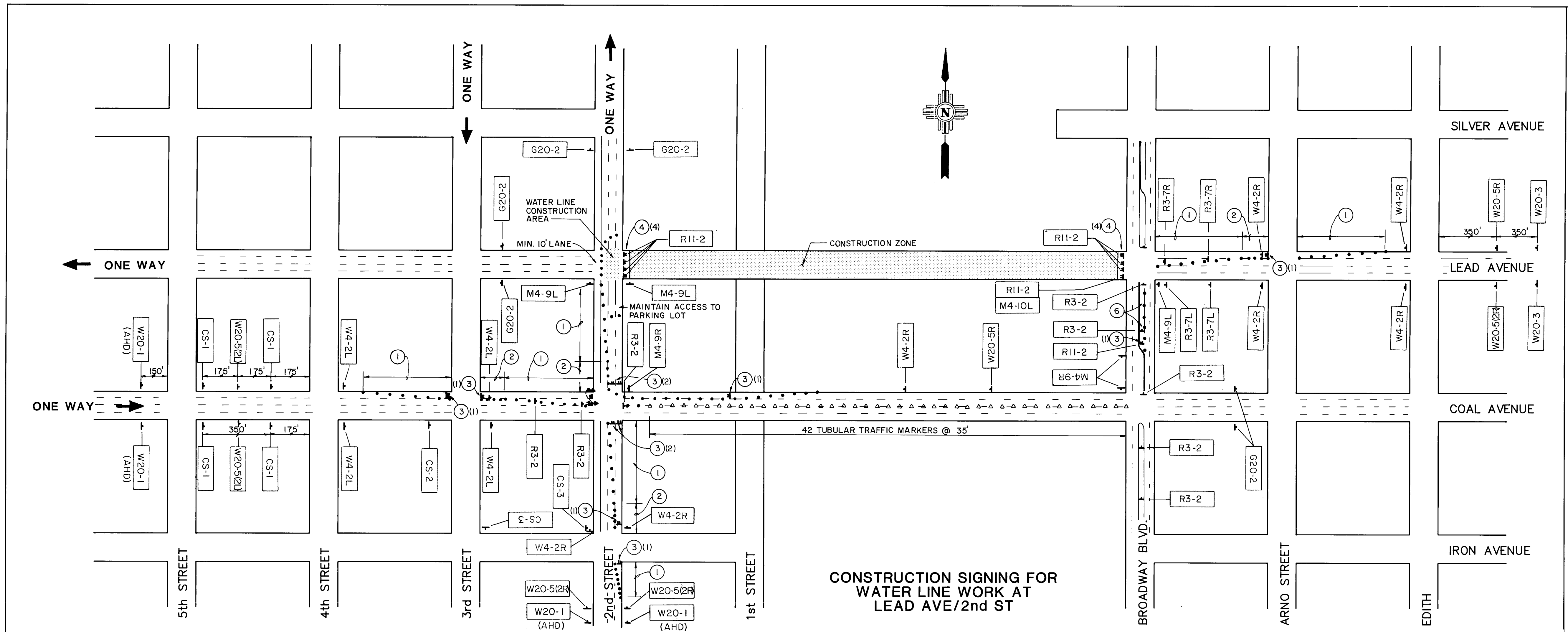
I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040
3/24/94
DATE



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE CONSTRUCTION SIGNING LAYOUT					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	RJC	3-93	Water	N/A	2/21/94
Transportation	N/A	2-22-93	Waste Water	"	"
Hydrology	N/A	2-22-93			
CC	N/A	3-1-93			
PROJECT NO.	4018.90	MAP NO.	K-14	SHEET	OF
				46	47

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		DESIGN	
CONTRACTOR	DATE	WORK	DATE	FIELD	DATE	NO.	BY	NO.	DATE
RECEIVED BY	DATE	ACCEPTANCE BY	DATE	NOTES					
VERIFICATION BY	DATE	DRAWINGS	DATE						
MICRO-FILM INFORMATION									
RECORDED BY	DATE								
NO.									



- LEGEND**
- CONSTRUCTION ZONE
 - TYPE III BARRICADE
 - TRAFFIC SIGN
 - BARREL
 - VERTICAL PANEL
 - DIRECTION OF TRAVEL

- KEYED NOTES**
- 245' TAPER - 8 BARRELS @ 35' SPACING
 - 500' TRANSITION W/ BARRELS @ 35'
 - TYPE III BARRICADES (#) W/R11-2a
 - TYPE III BARRICADES (#) W/R11-2
 - TYPE III BARRICADES (#) W/R11-2, R6-1(R)
 - TANGENT W/ BARRELS @ 35'

NOTE: DIMENSIONS SHALL CONTROL FOR PLACEMENT OF TRAFFIC CONTROL DEVICES, TAPER LENGTHS AND TRANSITION LENGTHS.

AVID ENGINEERING, INC.
Civil • Structural • Transportation
6100 Seagull St. NE - Suite 102
Albuquerque, NM 87109 - (505) 881-5357

126 4018 904795

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: LEAD AVENUE BRIDGE CONSTRUCTION SIGNING LAYOUT					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	BIG	3-1-93	Water	N/A	2/22/93
Transportation	N/A	2-22-93	Waste Water	"	"
Hydrology	N/A	2-22-93			
CC	R24	3-1-93			
PROJECT NO.	4018.90	MAP NO.	K-14	SHEET	47 OF 47

I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.

Carlos G. Padilla
CARLOS G. PADILLA, P.E. NO. 11040
DATE 3/21/94



AS BUILT INFORMATION			BENCH MARKS		
CONTRACTOR	DATE		NO.	DATE	
WORK STARTED BY	DATE				
INSPECTOR'S FIELD VERIFICATION BY	DATE				
FIELD VERIFICATION BY	DATE				
CORRECTED BY	DATE				
MICRO-FILM INFORMATION					
RECORDED BY	DATE				
NO.					

ENGINEER'S SEAL			SURVEY INFORMATION		
			FIELD NOTES	DATE	
			NO.	BY	
			REMARKS	BY	
			DESIGN	DATE	
			NO.	DATE	
			DRAWN BY	DATE	
			CHECKED BY	DATE	

DESIGNED BY: S.J.M. 1/90 CHECKED BY: S.J.M. 1/90
DETAILED BY: J.A.K. 1/90 CHECKED BY: E.R.D. 1/90

TABLE OF ALLOWABLE MOVEMENT LENGTHS AND ACCEPTABLE JOINT SEALS

TABLE OF ALLOWABLE MOVEMENT LENGTHS AND ACCEPTABLE JOINT SEALS									
SKEW	MOVEMENT LENGTH (FEET)				MANUFACTURER			JOINT MOVEMENT (IN.)	* "A" (DIMENSION @ MID TEMP T ₀) (IN.)
	CONCRETE BRIDGE		STEEL BRIDGE		WATSON-BOMAN AND ACME "STRIP SEAL" MODEL NO.	D.S. BROWN CO., INC. "STEEFLEX" MODEL NO.	STRUCTURAL ACCESSORIES INC. "ONFLEX" MODEL NO.		
	SEVERE CLIMATE (-10° TO 120°F) T ₀ = 55°F	MODERATE CLIMATE (20° TO 120°F) T ₀ = 70°F	SEVERE CLIMATE (-30° TO 120°F) T ₀ = 45°F	MODERATE CLIMATE (0° TO 120°F) T ₀ = 60°F					
0° to 15°	0-427	0-556	0-342	0-427	SE-400	400L	40SEQ	0 TO 4	2
15° to 30°	0-442	0-575	0-354	0-442	SE-400	400L	40SEQ	0 TO 4	2
30° to 45°	0-493	0-642	0-395	0-493	SE-400	400L	40SEQ	0 TO 4	2

* MAXIMUM "A" IS EQUAL TO TOTAL JOINT MOVEMENT

GENERAL NOTES

- WORKMANSHIP AND MATERIALS SHALL CONFORM TO NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1994 EDITION, APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.
- JOINT SEALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SEALS HAVING EQUAL PERFORMANCE CHARACTERISTICS TO THOSE SHOWN MAY BE SUBSTITUTED IF THE ENGINEER'S WRITTEN APPROVAL IS OBTAINED AT LEAST TWO WEEKS PRIOR TO THE DAY OF THE BID OPENING.
- JOINT SEAL SIZES ARE BASED ON AN INSTALLATION TEMPERATURE OF T₀ (DEGREES F. MIDPOINT TEMPERATURE) AND JOINT MOVEMENTS FOR A RANGE OF TEMPERATURES AS NOTED IN THE TABLE ON THIS SHEET. FOR INSTALLATION TEMPERATURES BELOW T₀ INCREASE DIMENSION "A" BY THE AMOUNT SHOWN BELOW. FOR INSTALLATION TEMPERATURE ABOVE T₀ DECREASE DIMENSION "A" BY THE AMOUNT SHOWN BELOW.

FOR CONCRETE BRIDGES:

$$\text{CHANGE IN "A"} = 0.000072 \times L \times \cos \theta \times \Delta T$$

FOR STEEL BRIDGES:

$$\text{CHANGE IN "A"} = 0.000078 \times L \times \cos \theta \times \Delta T$$

WHERE:

CHANGE IN "A" IS IN INCHES.

L = MOVEMENT LENGTH IN FEET (SEE SUPERSTRUCTURE DETAILS)

θ = SKEW ANGLE

ΔT = CHANGE IN TEMPERATURE FROM T₀ IN DEGREES F.

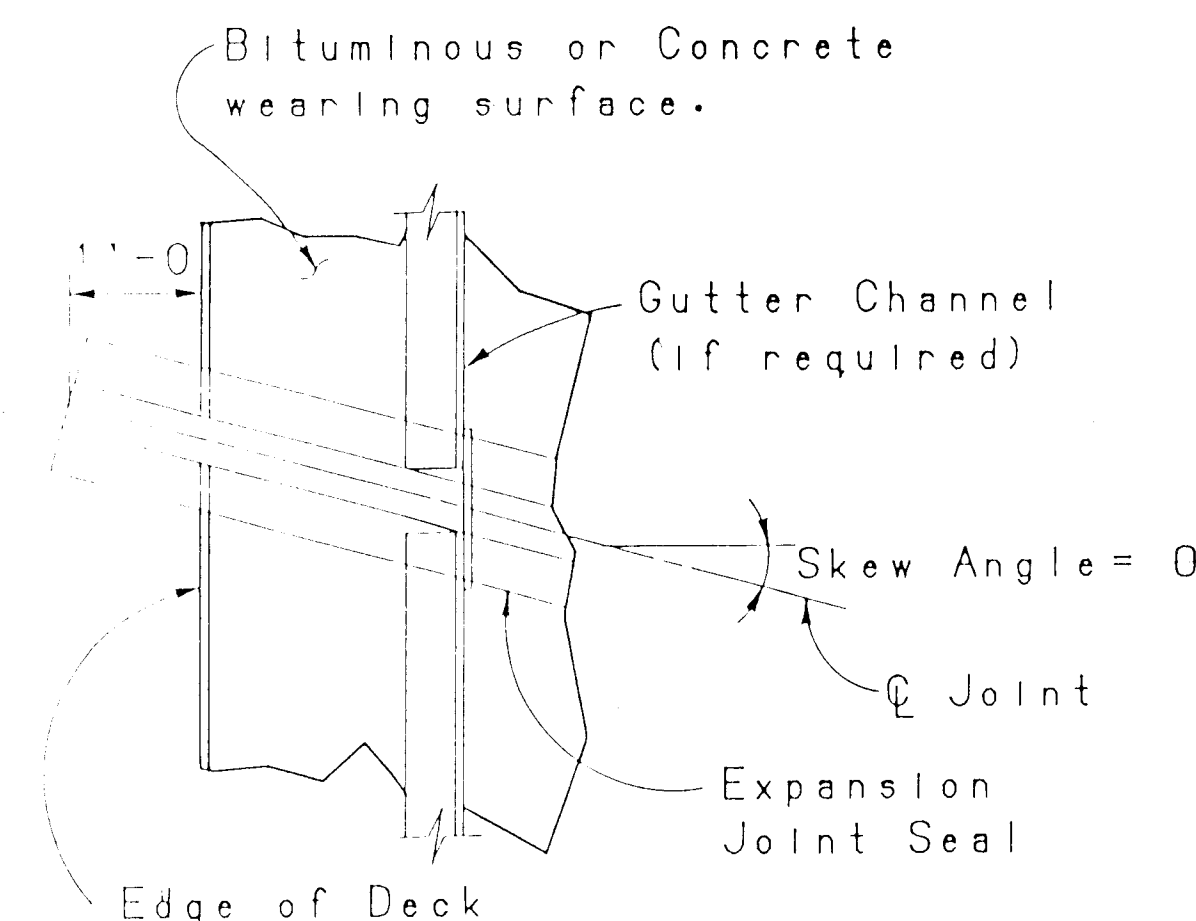
EXAMPLE: (CONCRETE BRIDGE IN SEVERE CLIMATE T₀ = 55°F)

FOR T = 73°F, L = 100 FT, θ = 28°

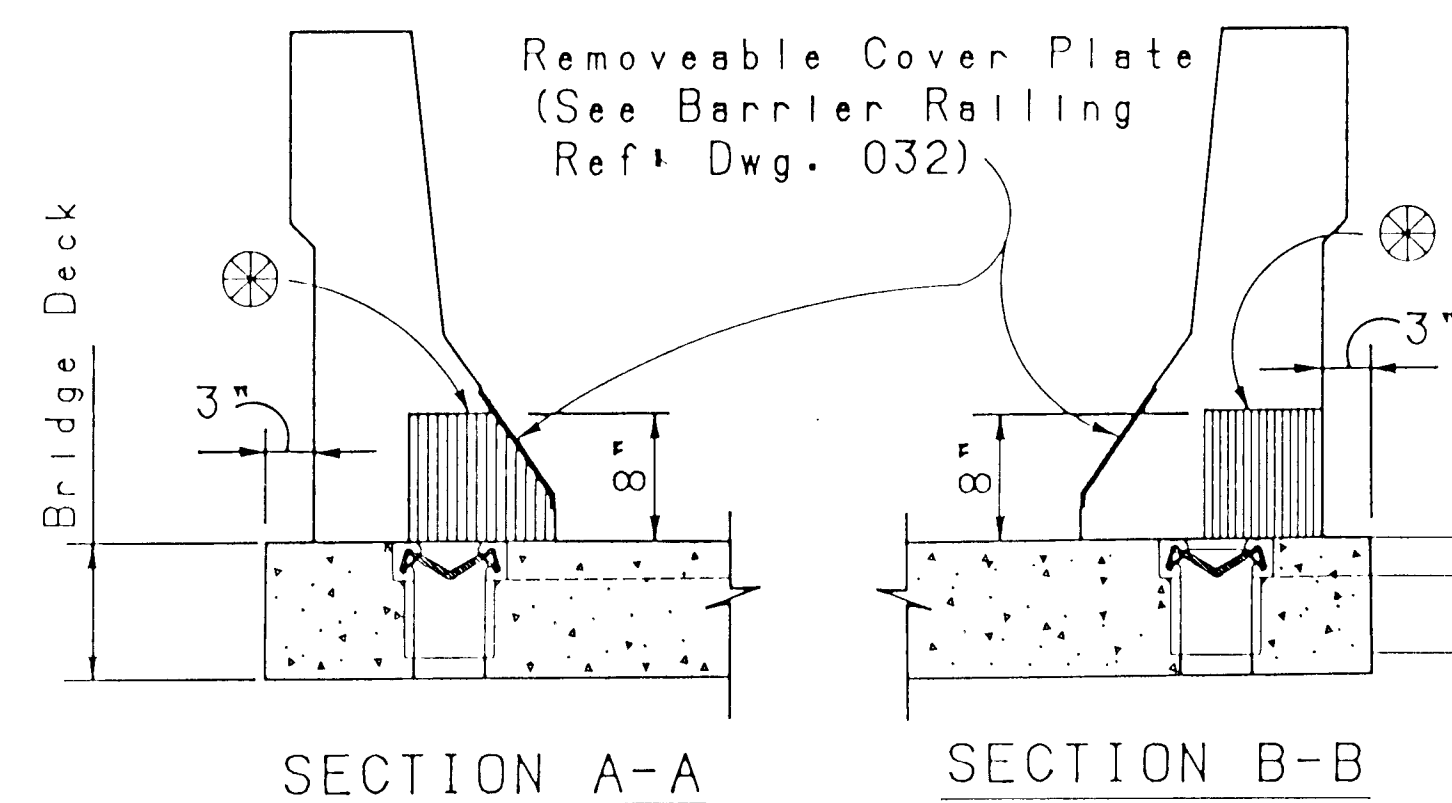
CONCRETE BRIDGE, ΔT = 73° - 55° = 18°F

CHANGE IN "A" = 0.000072 X 100 X 0.8829 X 18
= 0.1144 INCHES; SAY 1/8 INCH

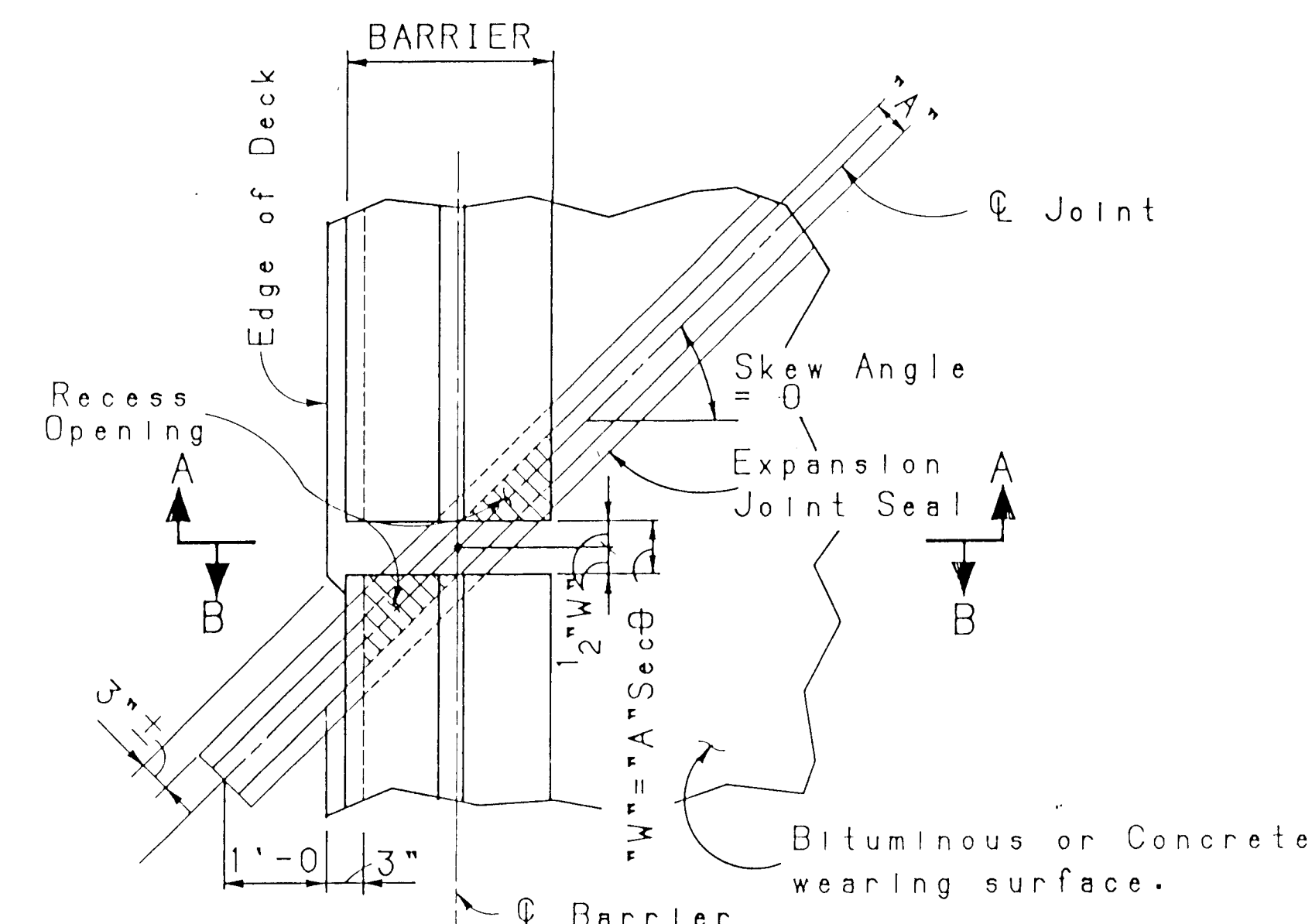
- UNLESS OTHERWISE SPECIFIED, EITHER TYPE I OR TYPE II JOINTS MAY BE INSTALLED AT THE OPTION OF THE CONTRACTOR.
- UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL STRUCTURES SHALL BE CONSIDERED TO BE SUBJECTED TO A SEVERE CLIMATE.



PART PLAN - SKEWED JOINT
WITH METAL RAILING



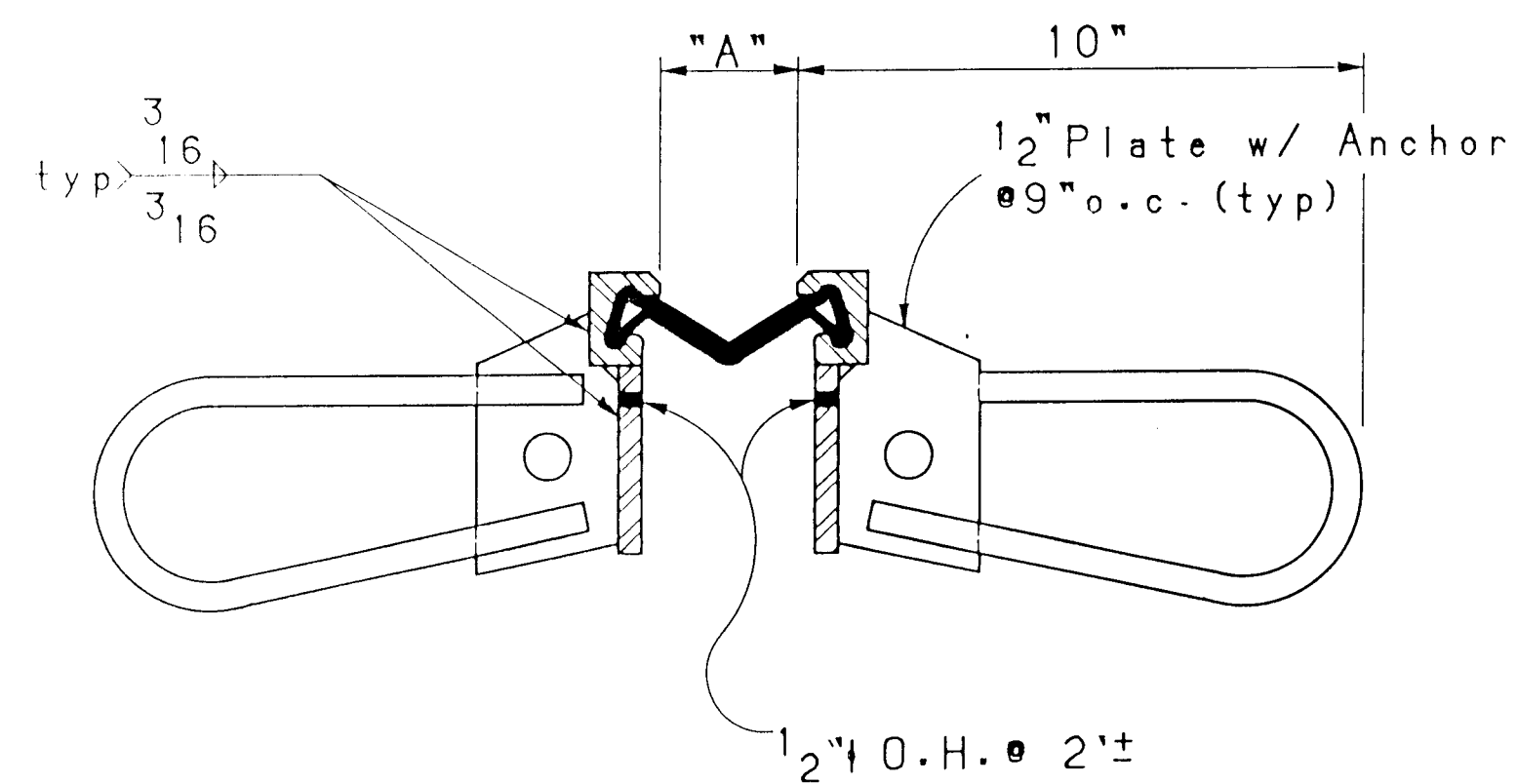
SECTION A-A
SECTION B-B
SIMILAR DETAIL FOR CURB AND SIDEWALK.
⊗ Recess in base of wall barrier.



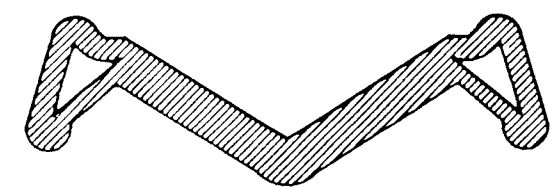
PART PLAN-SKEW JOINT
WITH CONCRETE BARRIER RAILING

6			
5			
4			
3			
2			
1	GENERAL REVISIONS	1/90	ERD
NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTATION)			
NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT			
ELASTOMERIC EXPANSION JOINT SEALS FOR BRIDGES GENERAL DATA			
LAYOUT BY DRAWN BY: J.A.K. 1/90 CHECKED BY: E.R.D. 1/90		APPROVED DESIGN ENGINEER DATE: 1/90	
SERIAL BJS-001-01			

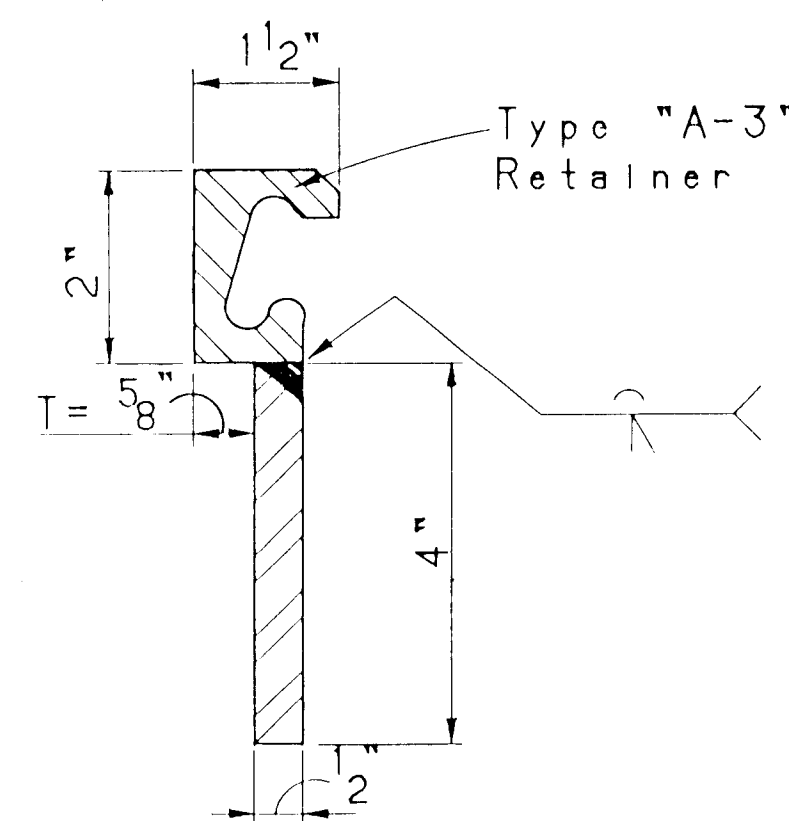
WATSON-BOWMAN & ACME



TYPICAL SECTION

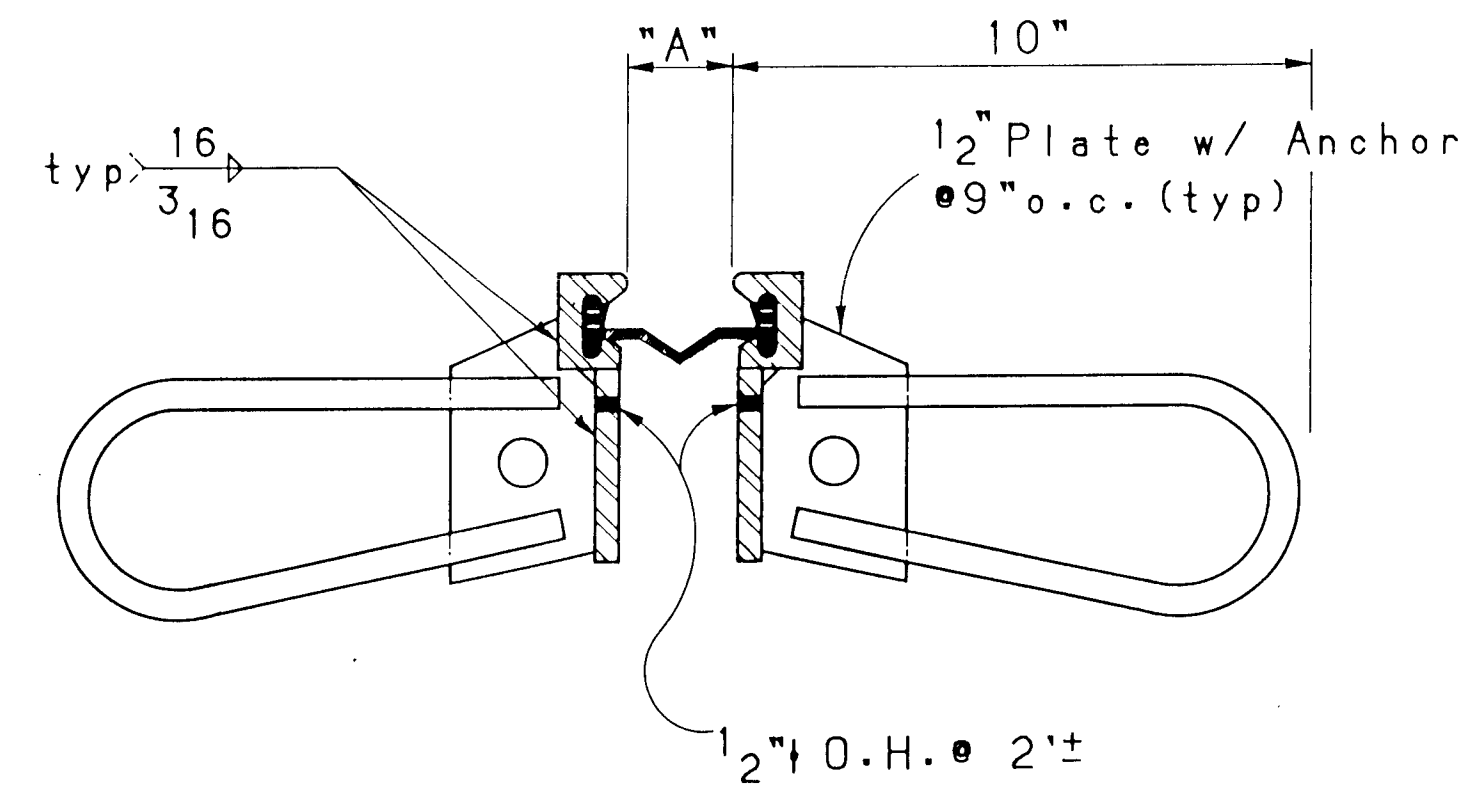


STRIP SEAL TYPE (SE)

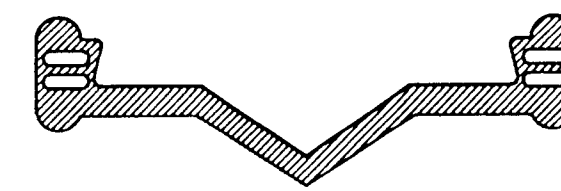


STEEL RETAINER

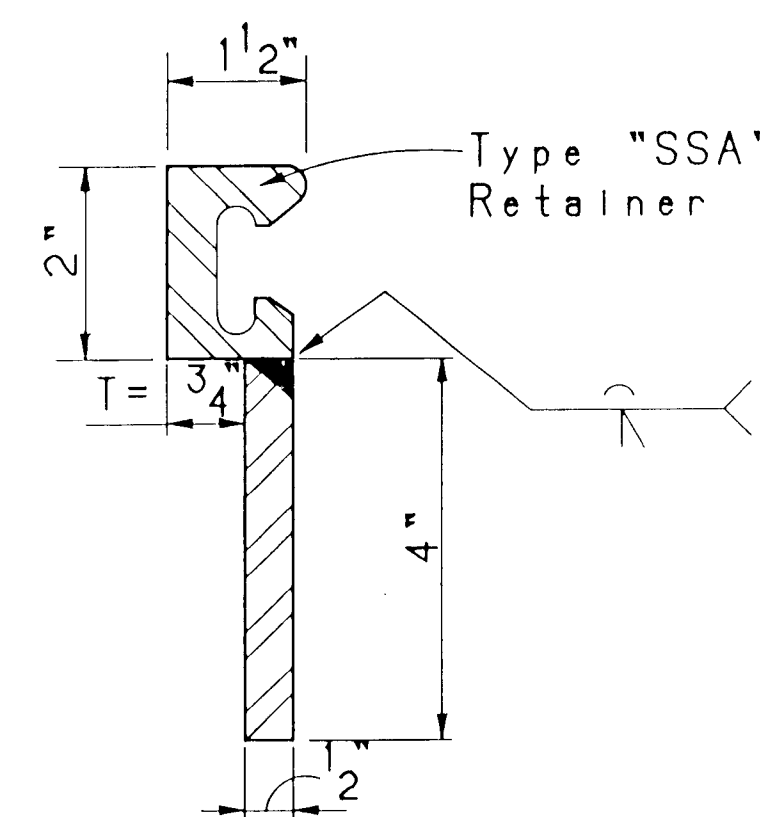
D. S. BROWN CO.



TYPICAL SECTION

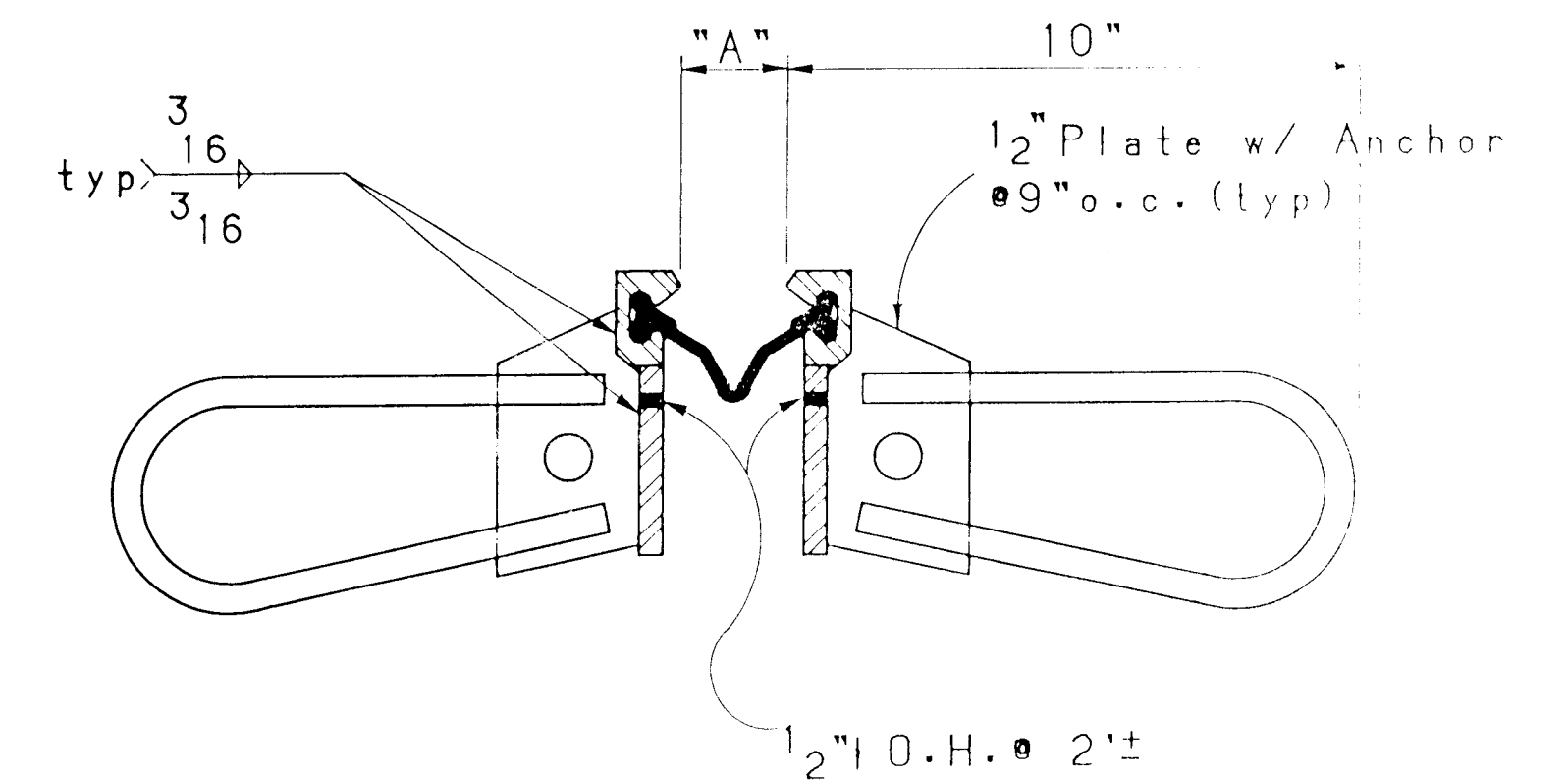


STEELFLEX SERIES "L" SEAL

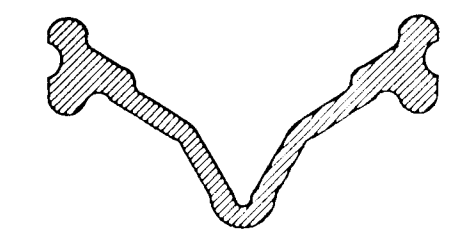


STEEL RETAINER

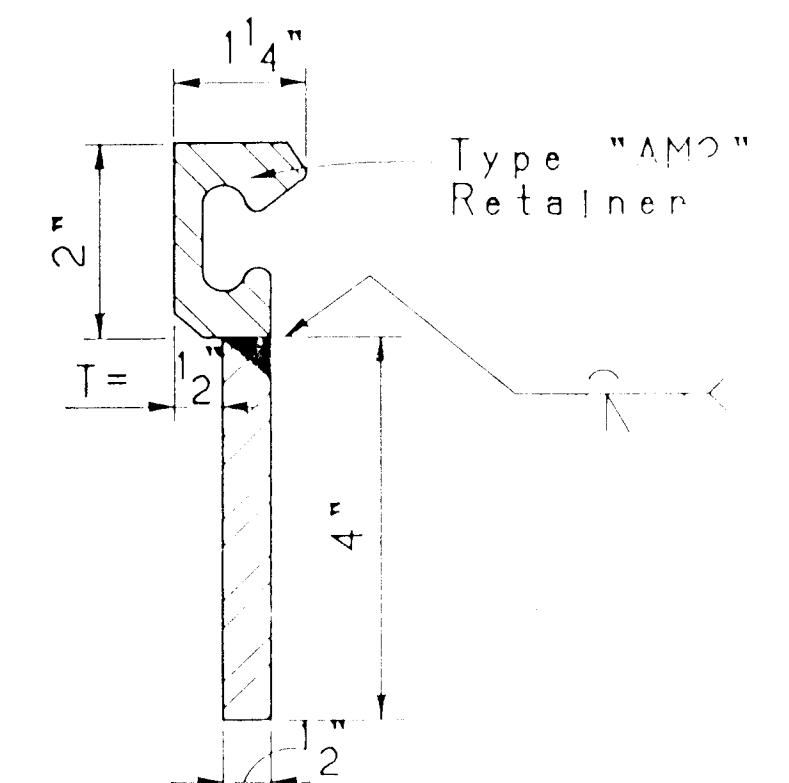
STRUCTURAL ACCESSORIES, INC.



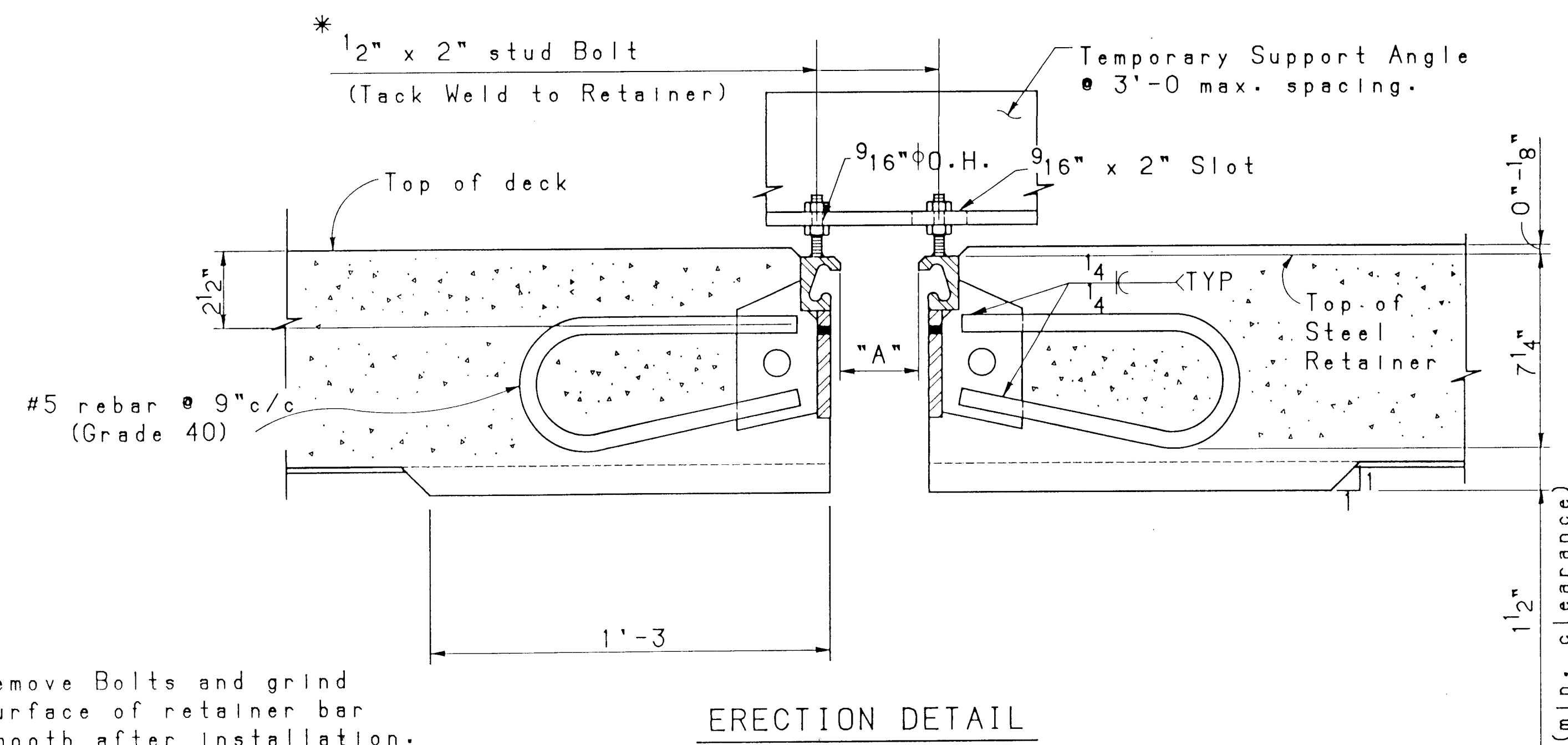
TYPICAL SECTION



ONFLEX 40SEQ SEAL



STEEL RETAINER



*Remove Bolts and grind surface of retainer bar smooth after installation.

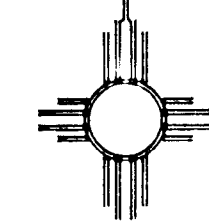
ERECTION DETAIL

NOTE: The temporary support angle shall be secured in position so as to provide for lateral and vertical adjustment of the retainer bars and permit final finishing of the concrete surface as approved by the project manager.

6			
5			
4			
3			
2			
1	GENERAL REVISIONS	1/79	ERD
NO.	DESCRIPTION	DATE	BY

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

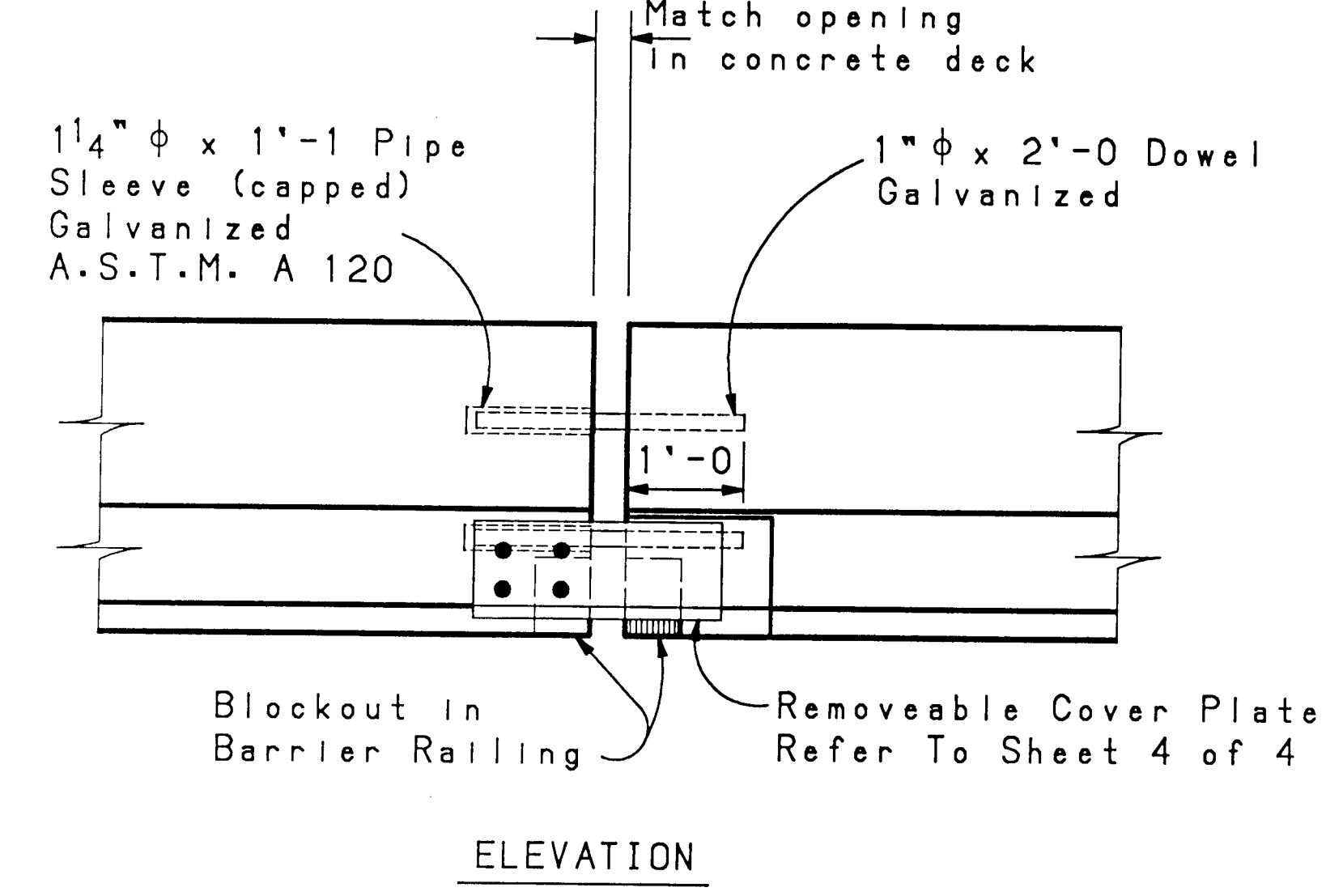
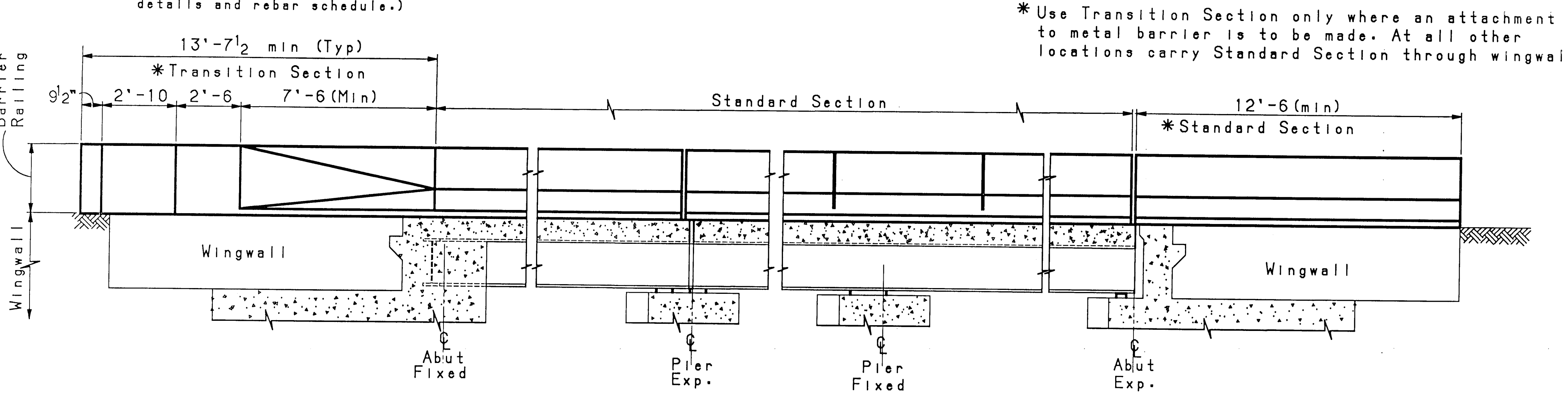
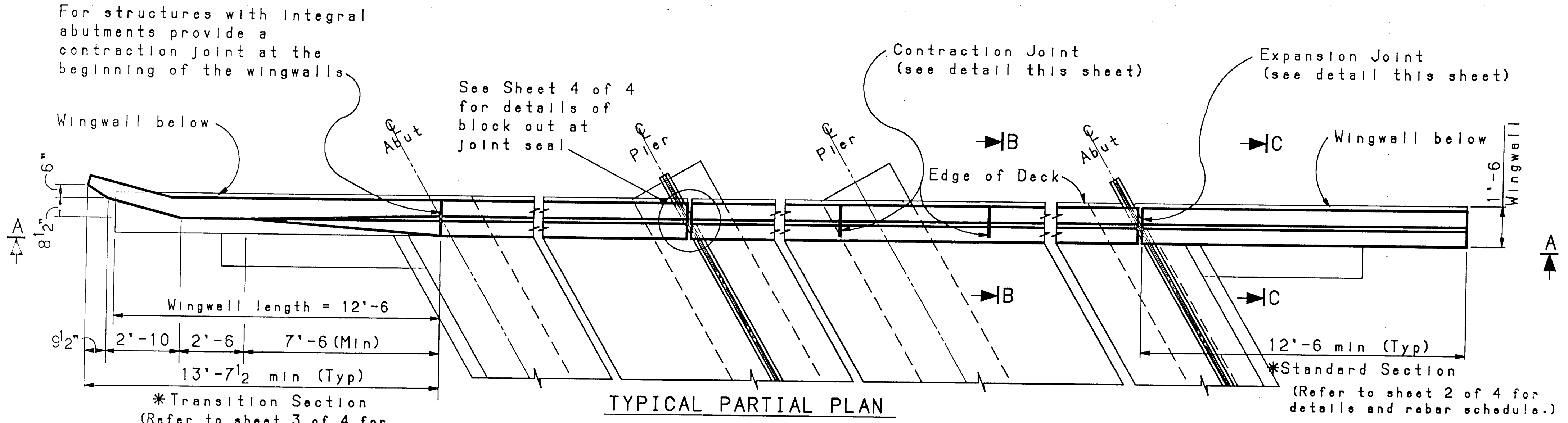
ELASTOMERIC EXPANSION JOINT SEALS FOR BRIDGES TYPE I INSTALLATION



LAYOUT BY:	APPROVAL <i>Wanda G. Green</i>	DATE
DRAWN BY: J.A.K. 12/89	RECOMMENDED BRIDGE ENGINEER	DATE
CHECKED BY:	APPROVED <i>Ronald E. Starnes</i>	DATE 6/13/91
	DESIGN BUREAU CHIEF	

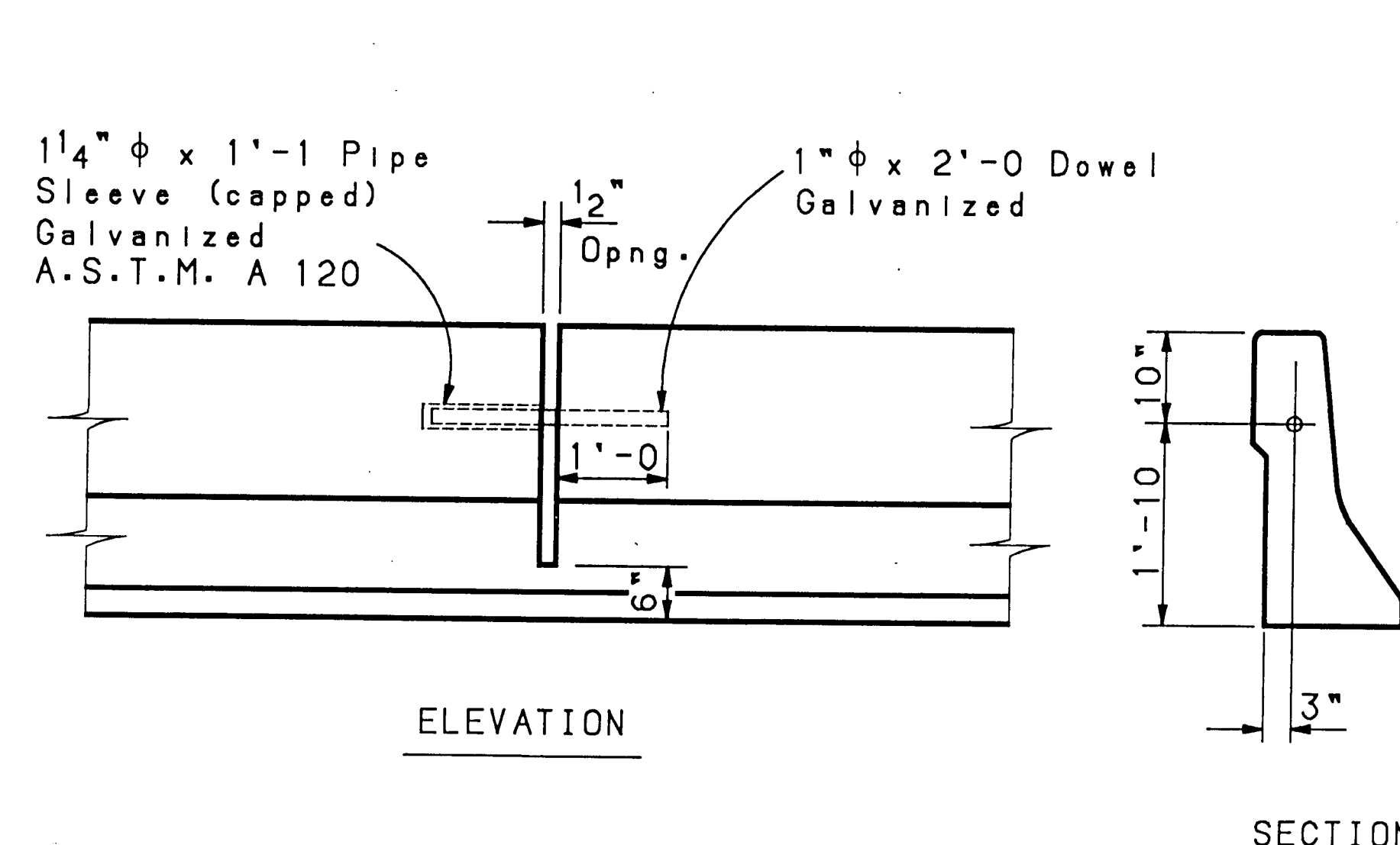
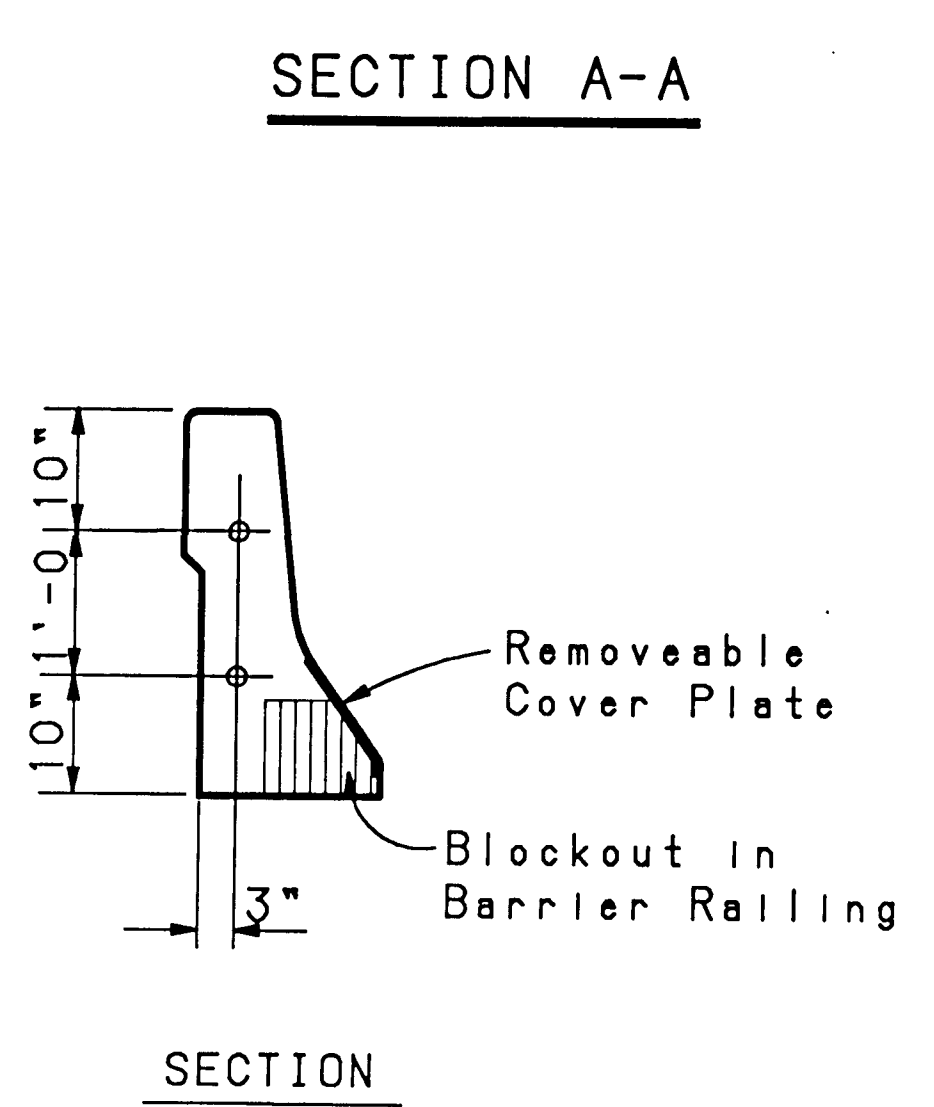
SERIAL BJS-002-01

DESIGNED BY: C.J.K. 7/89
CHECKED BY: S.J.M. 10/89
DETAILED BY: J.A.K. 7/89
CHECKED BY: E.R.D. 10/89
PLOT DATE: 1/23/92



EXPANSION JOINT DETAIL

Provide Expansion Joints at each deck slab joint.



CONTRACTION JOINT DETAIL

Provide Contraction Joints at equally spaced intervals (15' min, 30' max) between Expansion Joints or, for structures with integral abutments, between contraction joints at wingwalls.

DESIGN DATA

DESIGN IS IN ACCORDANCE WITH AASHTO SPECIFICATIONS DATED 1989 AND LATEST INTERIMS.

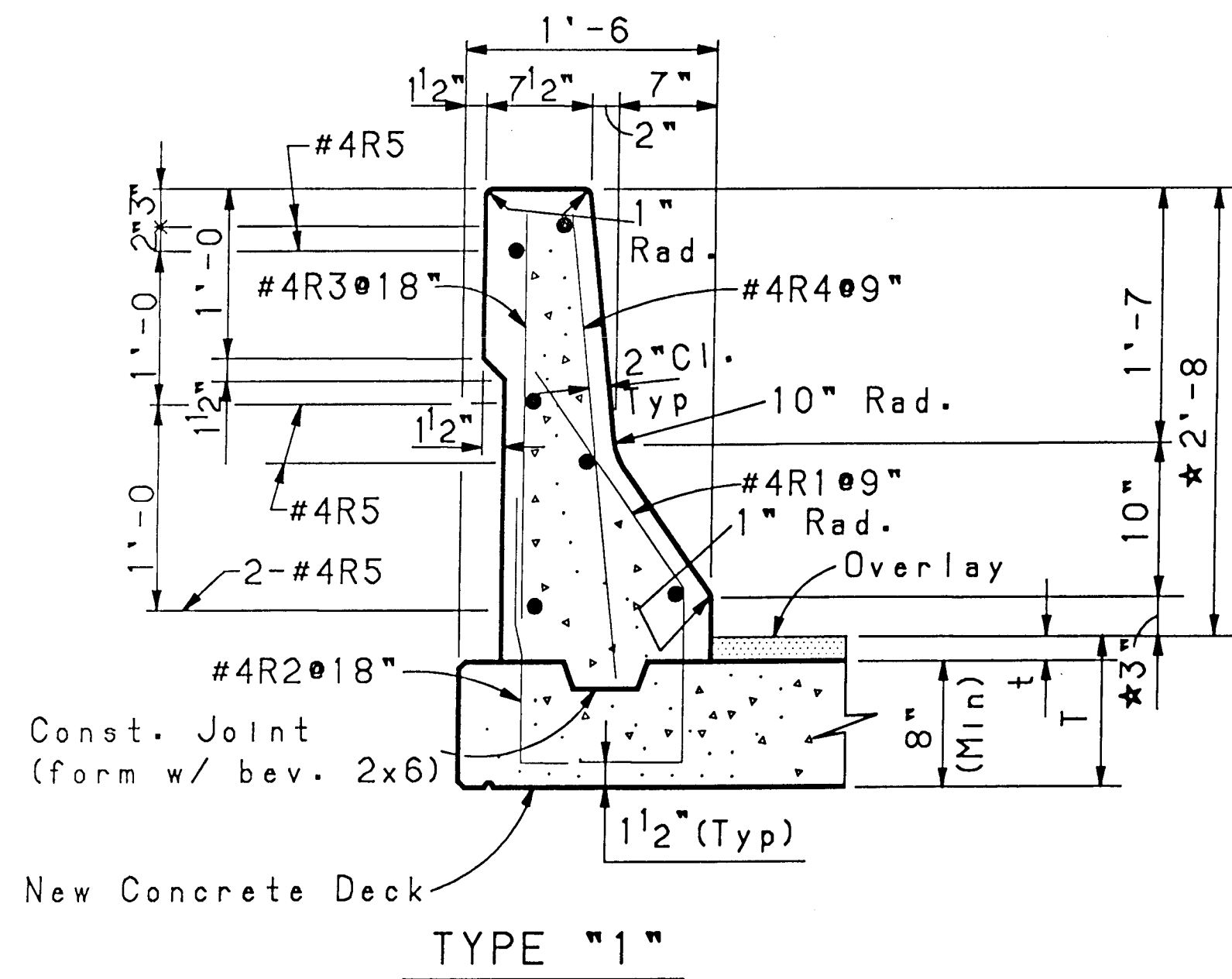
$f'_c=3,000$ psi @ 28 days, $f_c=1,200$ psi
 $f_y=60,000$ psi, $f_s=24,000$ psi, $n=9.2$

F.H.W.A. REGION NO. 6	SHEET NO.
NEW MEXICO PROJECT NO.	

GENERAL NOTES

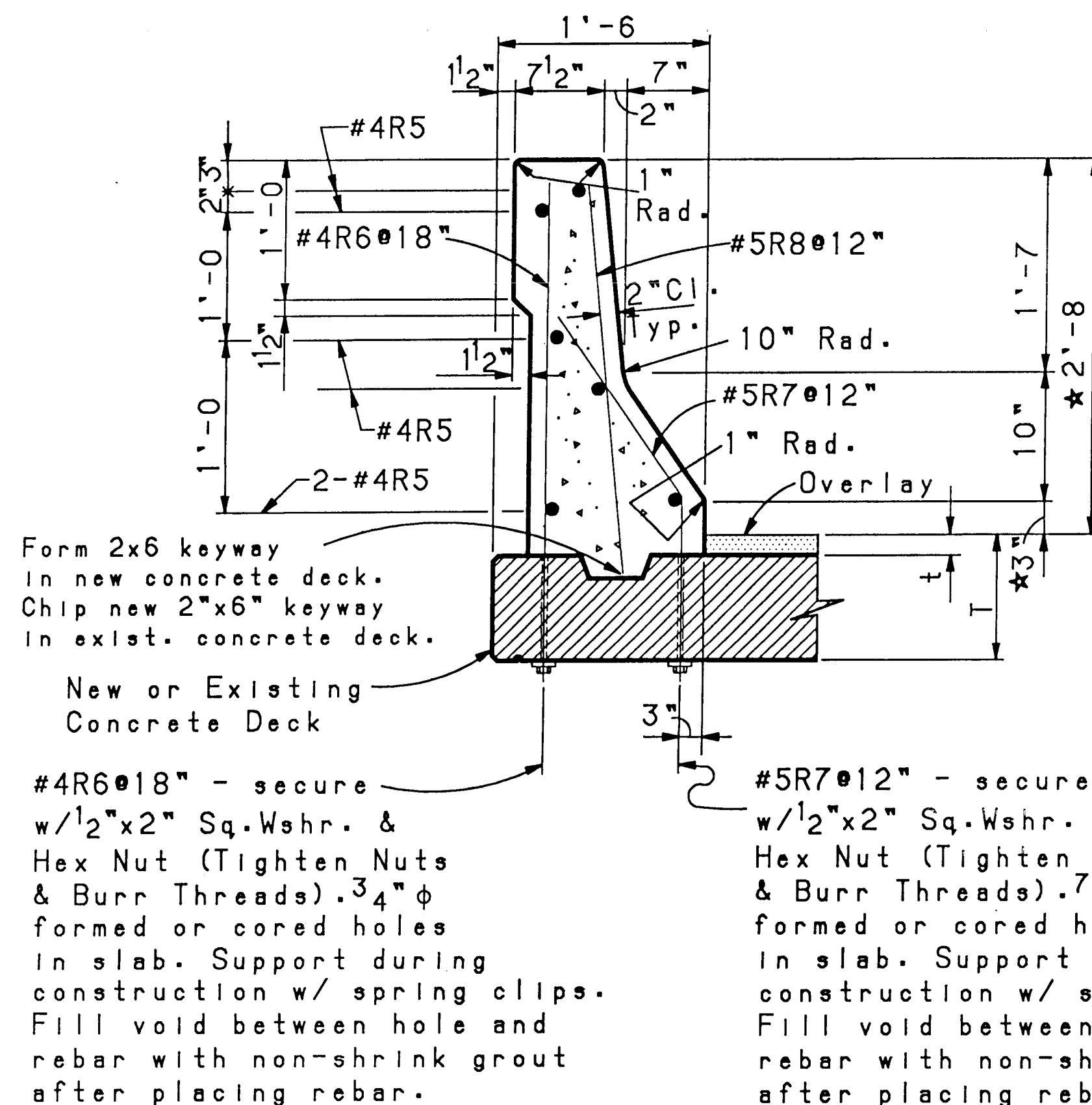
1. CONCRETE FOR BARRIER RAILING SHALL BE SUPERSTRUCTURE CONCRETE CLASS "AA". BARRIER RAILING SHALL BE PAID FOR AT THE UNIT PRICE PER LINEAR FOOT, INCLUDING COMPLETELY EMBEDDED REINFORCING STEEL, ANCHOR BOLTS AND ANY OTHER COMPLETELY EMBEDDED OR APPURTENANT STEEL ITEMS. BARRIER RAILING SHALL BE CAST-IN-PLACE USING REMOVABLE FORMS.
2. REINFORCING STEEL SHALL BE EPOXY COATED AND SHALL CONFORM TO A.A.S.H.T.O. SPECIFICATION M 31, GRADE 60. DIMENSIONS REFER TO CENTERLINE OF BAR UNLESS NOTED OTHERWISE ON THE DRAWINGS.
3. BARRIER RAILING INSTALLATIONS ON DECK SLABS MAY BE TYPE 1, 2, OR 3 AT THE OPTION OF THE CONTRACTOR. DECK THICKNESS (NEW OR EXISTING) MUST BE APPROPRIATE FOR THE TYPE OF INSTALLATION SELECTED.
4. FOR DETAILS OF BARRIER RAILING CONNECTION TO THE APPROACH METAL BARRIER - SEE TRAFFIC PLANS.
5. REFLECTIVE BARRIER DELINEATORS SHALL BE MOUNTED ON TOP OF THE BARRIER RAILING IN CONFORMANCE WITH THE TRAFFIC PLANS.
6. APPLY PENETRATING WATER REPELLANT TREATMENT TO ALL EXPOSED SURFACES OF THE BARRIER RAILING.
7. DISCONTINUE HORIZONTAL REINFORCEMENT AT ALL EXPANSION AND CONTRACTION JOINT OPENINGS.
8. STRUCTURAL STEEL FOR REMOVEABLE COVER PLATES AT THE EXPANSION JOINTS SHALL CONFORM TO A.A.S.H.T.O. SPECIFICATION M-183, AND SHALL BE GIVEN A PROTECTIVE COATING IN CONFORMANCE WITH THE SPECIFICATIONS. GALVANIZE ALL BOLTS AND HARDWARE.
9. COST OF REMOVEABLE COVER PLATES, IN PLACE, SHALL BE CONSIDERED INCIDENTAL TO THE COST OF BARRIER RAILING.
10. CONSTRUCTION JOINTS BETWEEN BARRIER RAILING AND BRIDGE DECK CONCRETE SHALL BE CLEANED AND ROUGHENED PRIOR TO PLACEMENT OF BARRIER RAILING CONCRETE AS IS REQUIRED BY THE SPECIFICATIONS. THE APPLICATION OF A MORTAR COATING TO THE SURFACE OF THE BRIDGE DECK CONCRETE WILL HOWEVER NOT BE REQUIRED.

6			
5			
4			
3			
2			
1			
NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			
NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT			
BARRIER RAILING GENERAL DETAILS			
LAYOUT BY: C.J.K.	APPROVAL: <i>[Signature]</i>	DATE: 1/23/92	
DRAWN BY: J.A.K.	RECOMMENDED: <i>[Signature]</i>	DATE: 1/23/92	
CHECKED BY: E.R.D.	APPROVED: <i>[Signature]</i>	DATE: 1/23/92	
DRAWING 032			



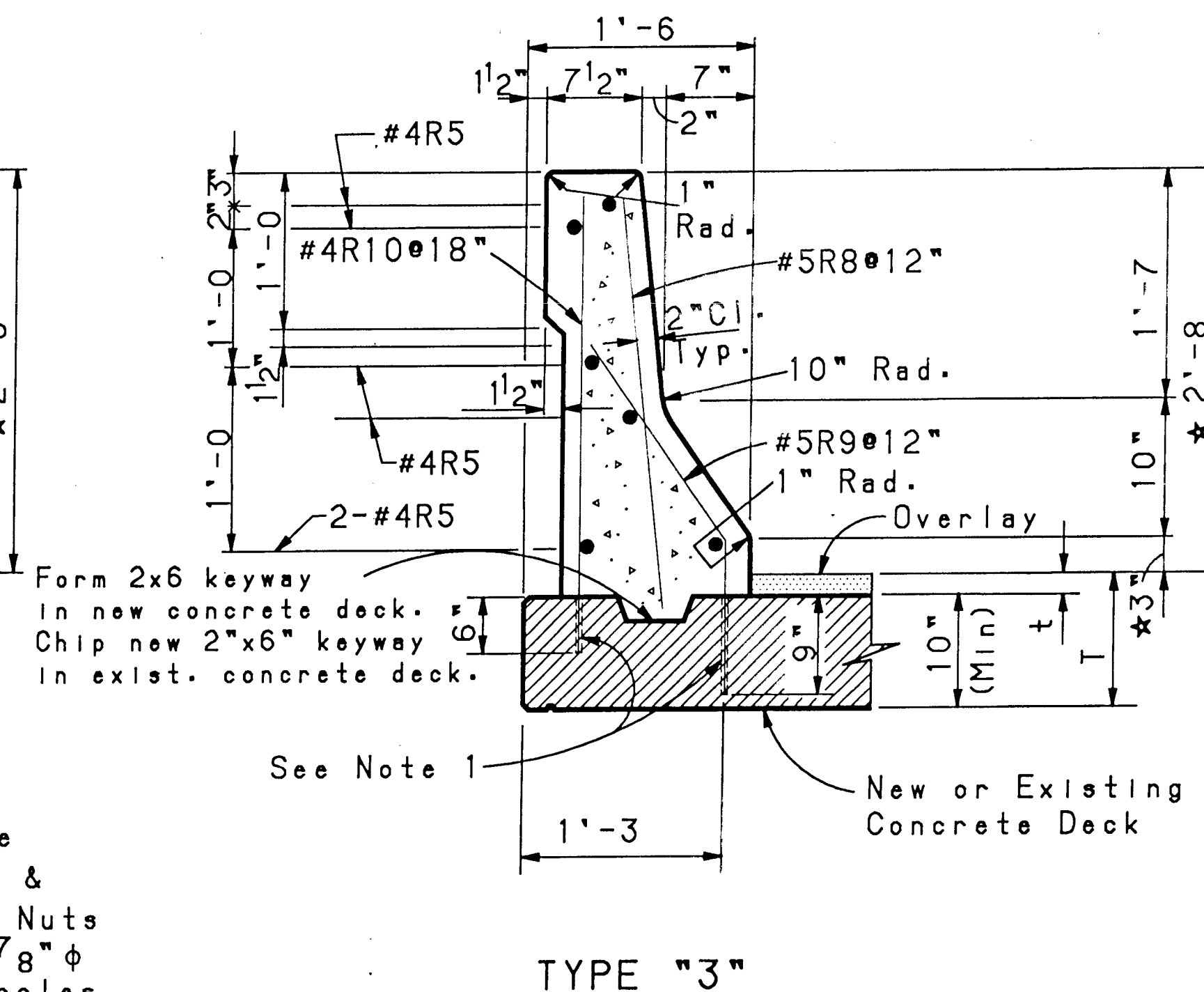
Place #4R1 and #4R2 bars with bridge deck reinforcement.

* These dimensions shall be measured above top of wearing surface, (top of concrete deck, or top of overlay - if any). In determining dimensions of the #4R1, #4R6 or #5R7 bars, the "T" dimension used shall include the thickness ("t") of any overlay.



TYPE "2"

SECTION B - B



TYPE "3"

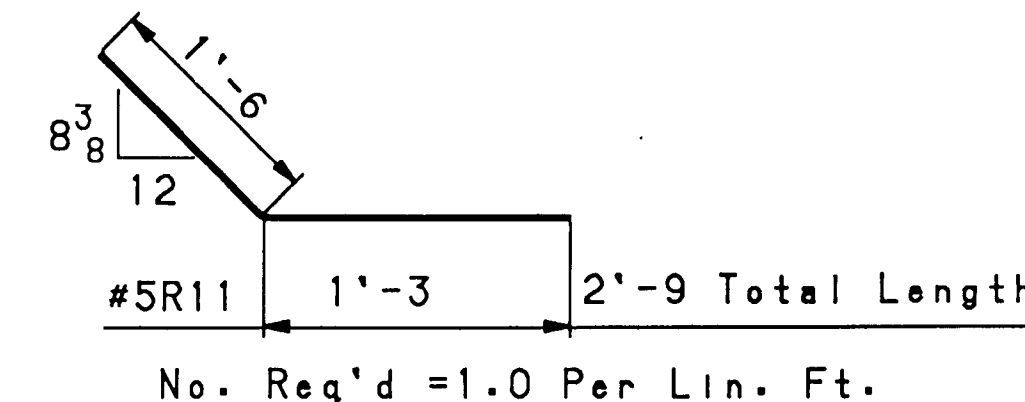
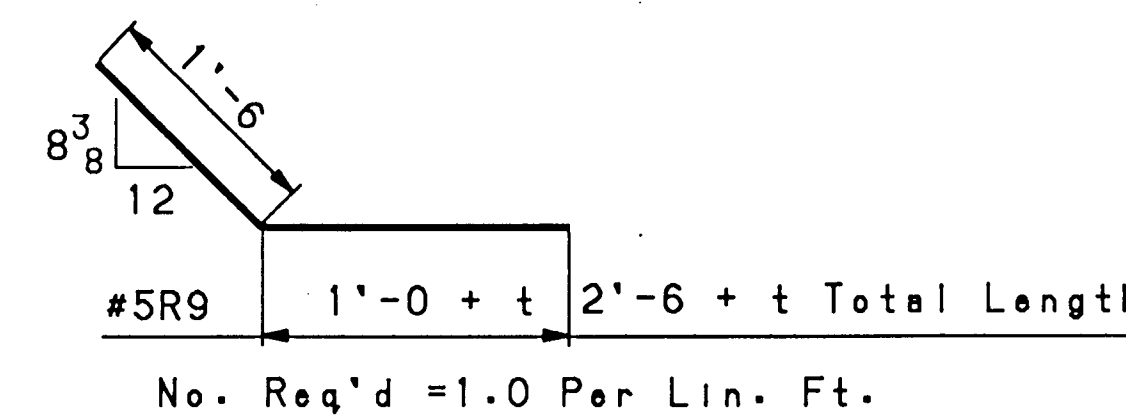
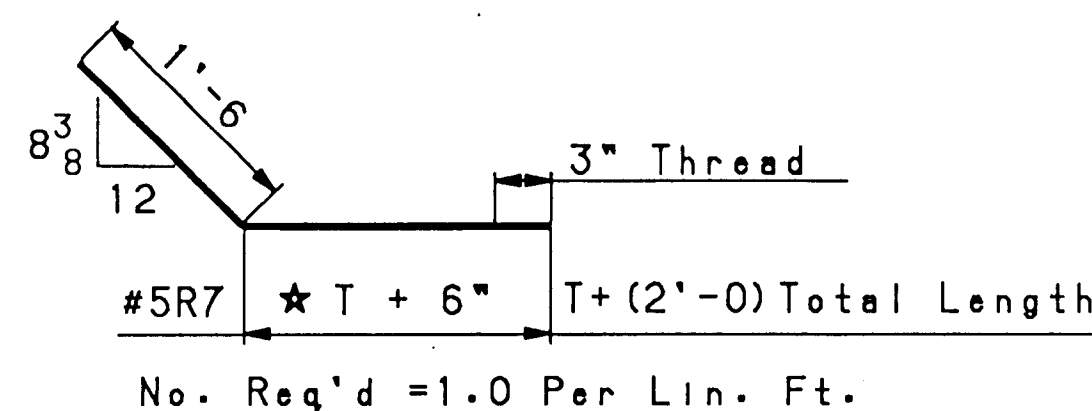
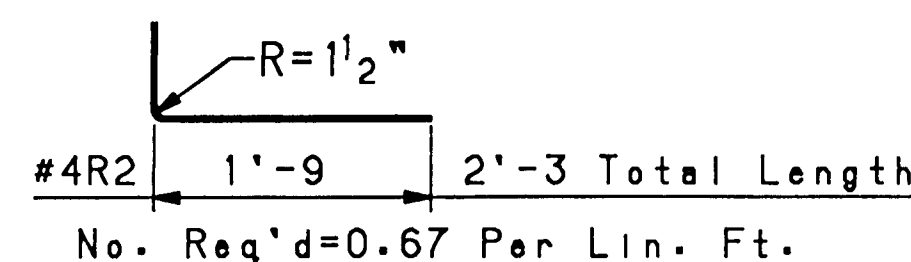
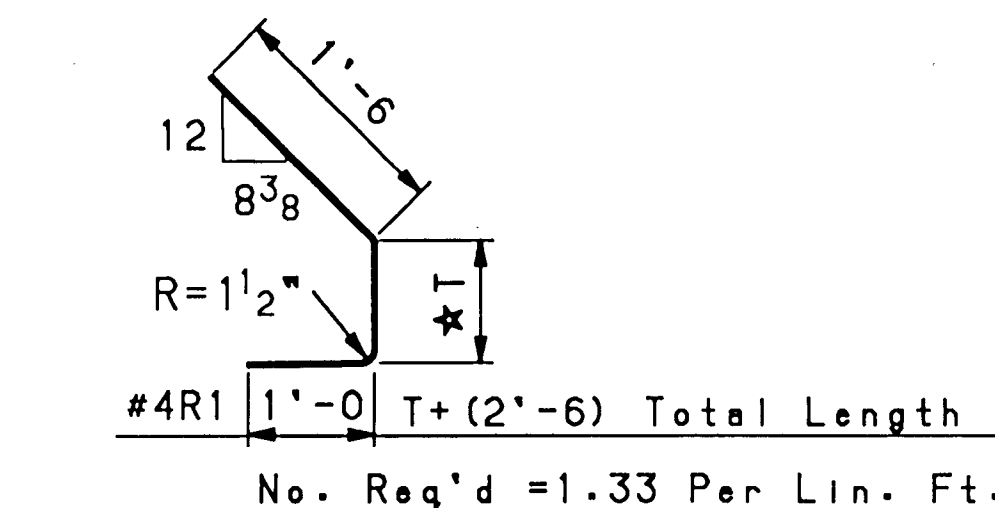
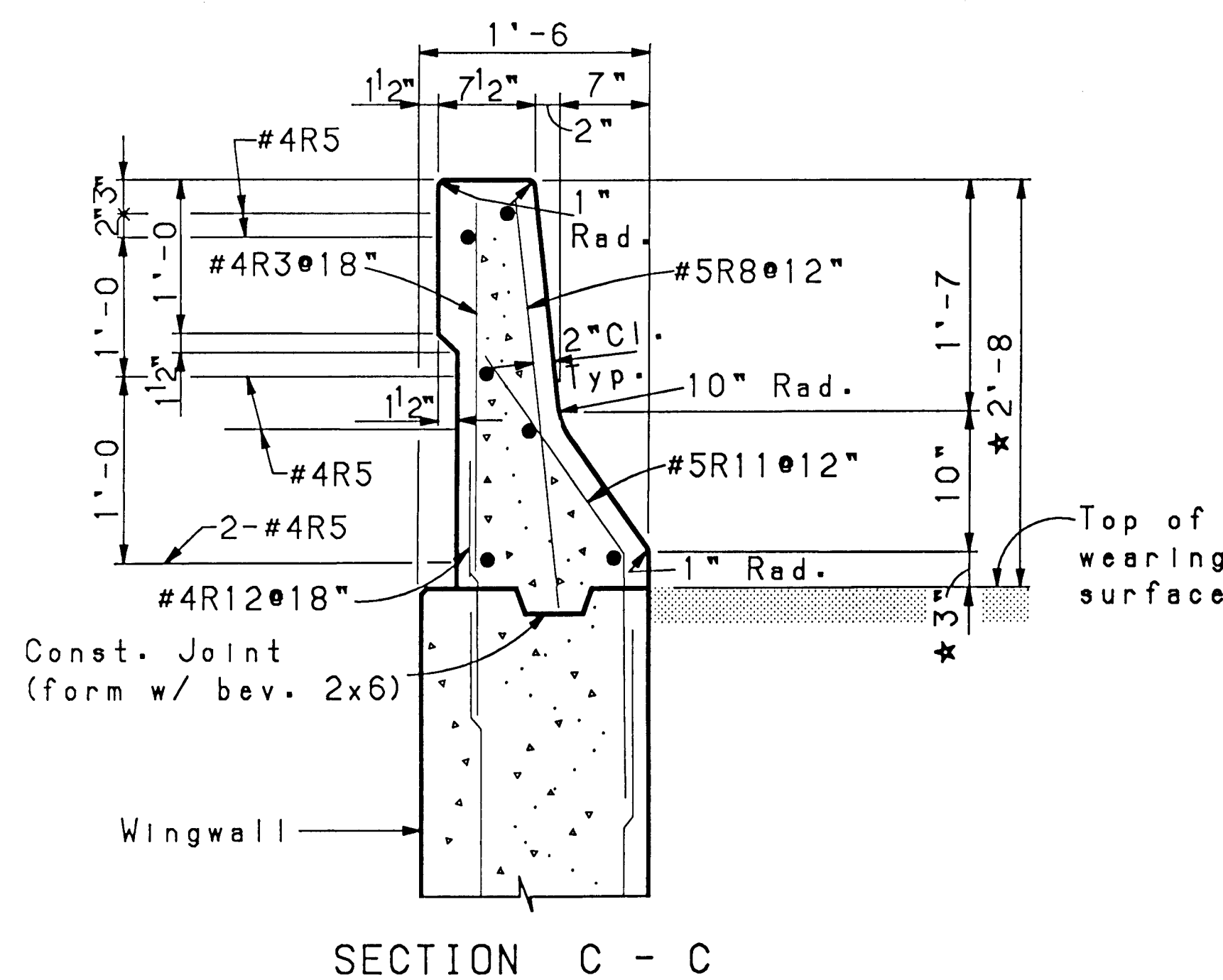
Note 1

Reinforcing bars shall be placed in 7/8" diameter cored holes, and grouted into place using a neat cement paste of portland cement and water. The water content shall be not more than 4 gallons per 94 pounds of cement. Retempering of grout will not be permitted. Immediately prior to placing the dowels the holes shall be cleaned of dust and other deleterious materials, shall be thoroughly saturated with water, have all free water removed and the holes shall be dried to a saturated surface dry condition. Sufficient grout shall be placed in the holes so that no voids remain after the dowels are inserted. Grout shall be cured for a period of 3 days or until the dowels are encased in concrete, whichever occurs first, by either the curing compound method or by keeping the surface of the grout continuously damp. Any dowels or grout which fail to bond or are damaged before the concrete is placed shall be removed and replaced. Cost of coring and grouting are to be included in the unit price bid for "BARRIER RAILING".

ESTIMATED QUANTITIES
(FOR CONTRACTORS INFORMATION ONLY)

ITEM	UNIT	TOTAL
EPOXY COATED REINFORCING BARS, GRADE 60	LB./FT.	10.74
SUPERSTRUCTURE CONCRETE CLASS "AA"	CU. YD./FT.	0.080

The quantities shown in the above table are approximate only and may vary with the type of barrier rail selected.

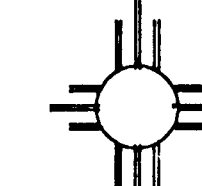


Mark	Length	No. Req'd Lin. Ft.
#4R3	2'-6" + t	0.67
#4R4	2'-8" + t	1.33
#4R5	Varies	6
#4R6	★ T + 2'-9"	0.67
#5R8	2'-8" + t	1.0
#4R10	3'-0" + t	0.67
#4R12	2'-0"	0.67

† Thread one end 3"
t = Thickness of overlay

NO.	DESCRIPTION	DATE	BY
6			
5			
4			
3			
2			
1			

REVISIONS (OR CHANGE NOTICES)
NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

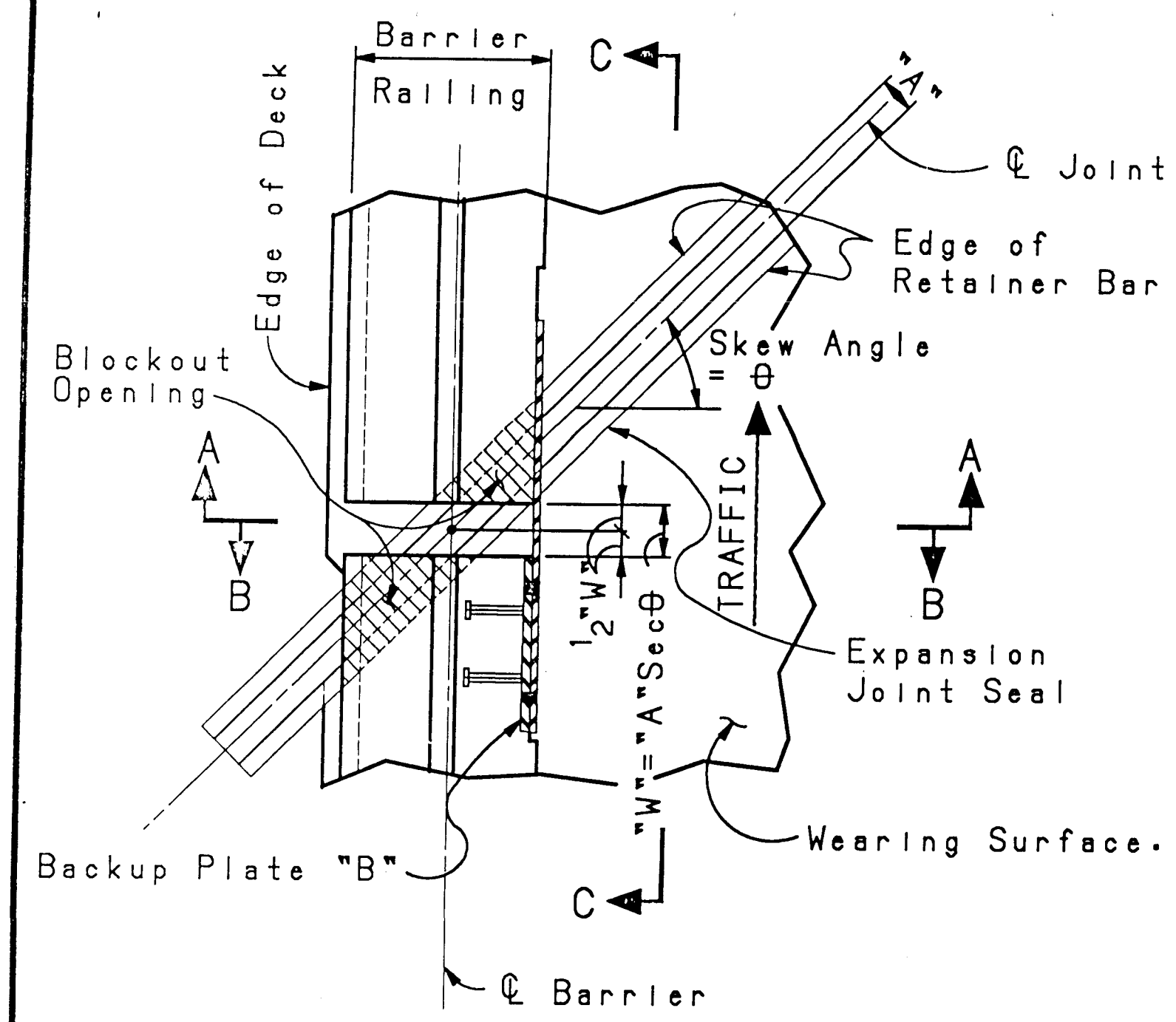


BARRIER RAILING
STANDARD SECTION DETAILS

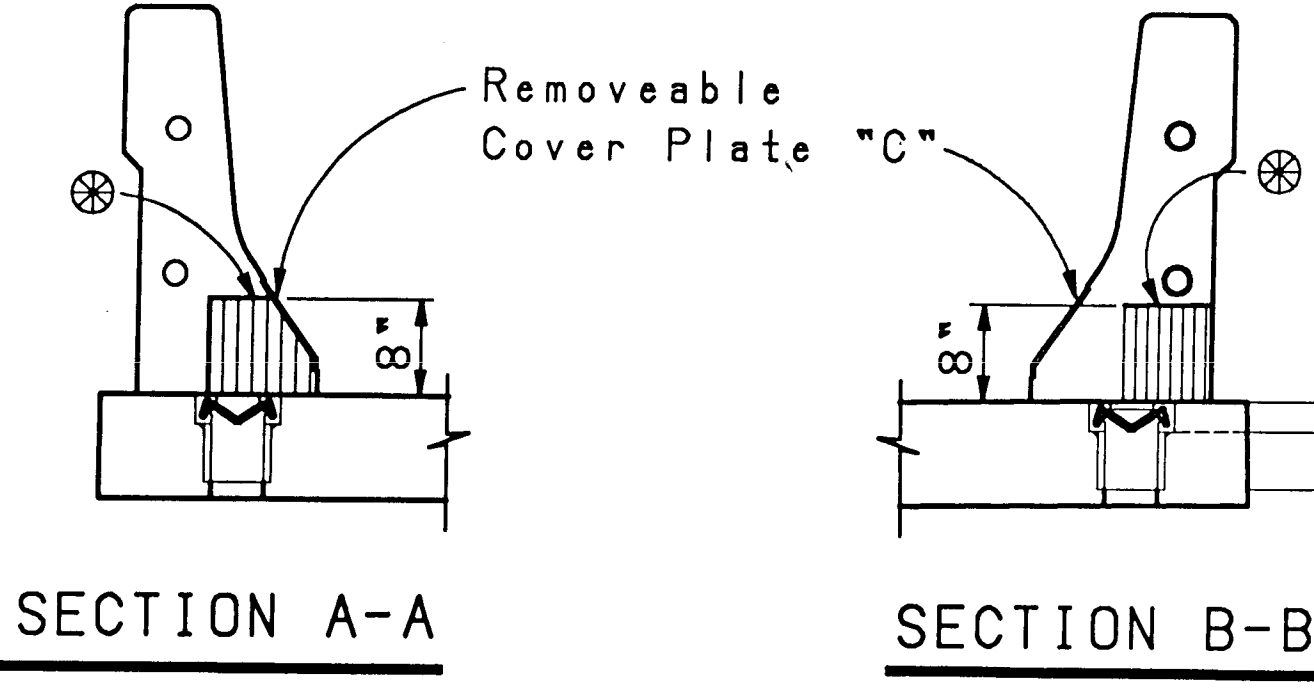
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
24 40 18 90 51 95

LAYOUT BY: G.J.K.	APPROVAL: <i>[Signature]</i>	DATE: 11/97
DRAWN BY: J.A.K.	RECOMMENDED: <i>[Signature]</i>	DATE: 11/97
CHECKED BY: E.R.D.	APPROVED: <i>[Signature]</i>	DATE: 11/97
	DESIGN BUREAU CHIEF	DATE: 11/97

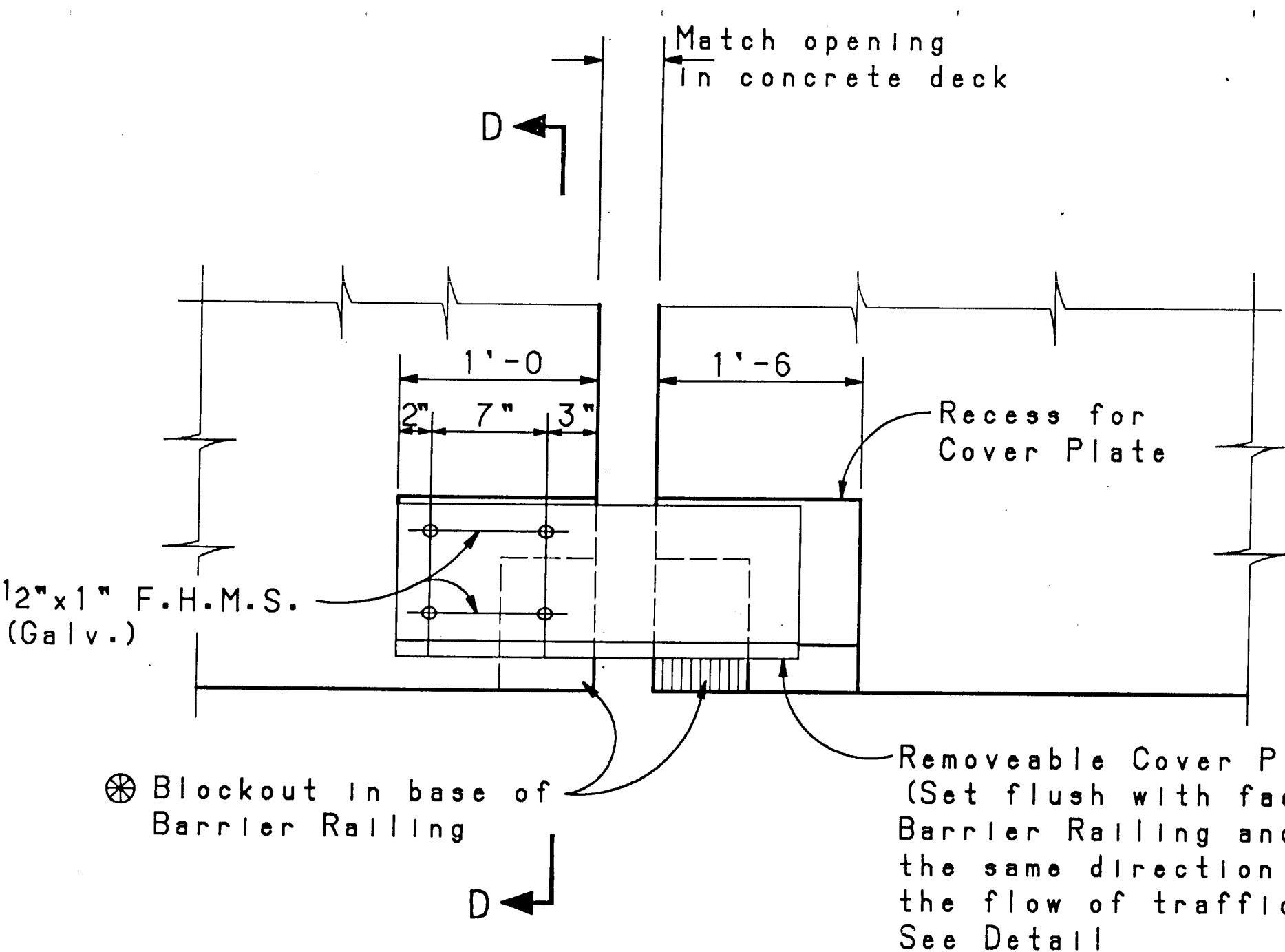
DRAWING 032 SHEET 2 OF 4



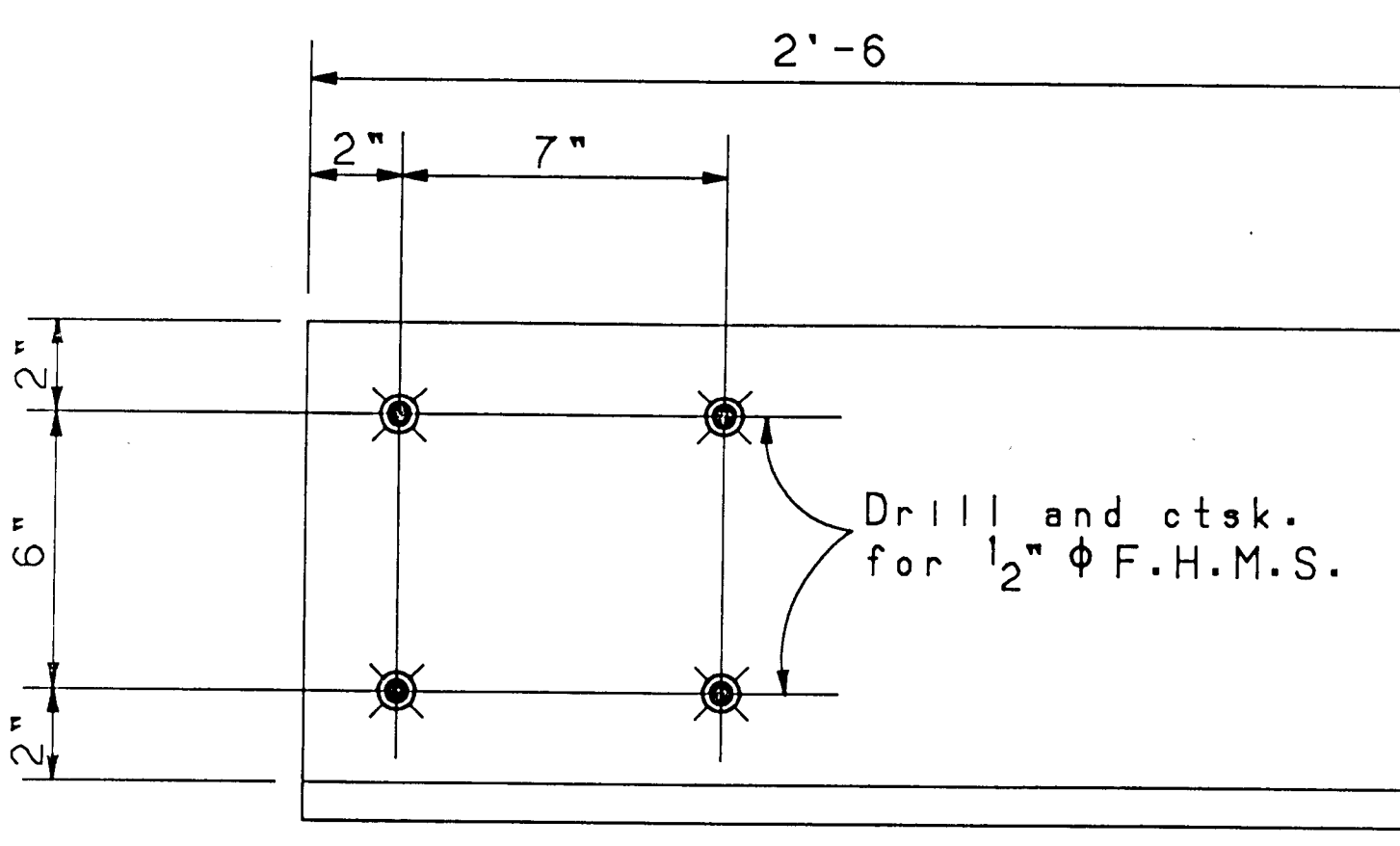
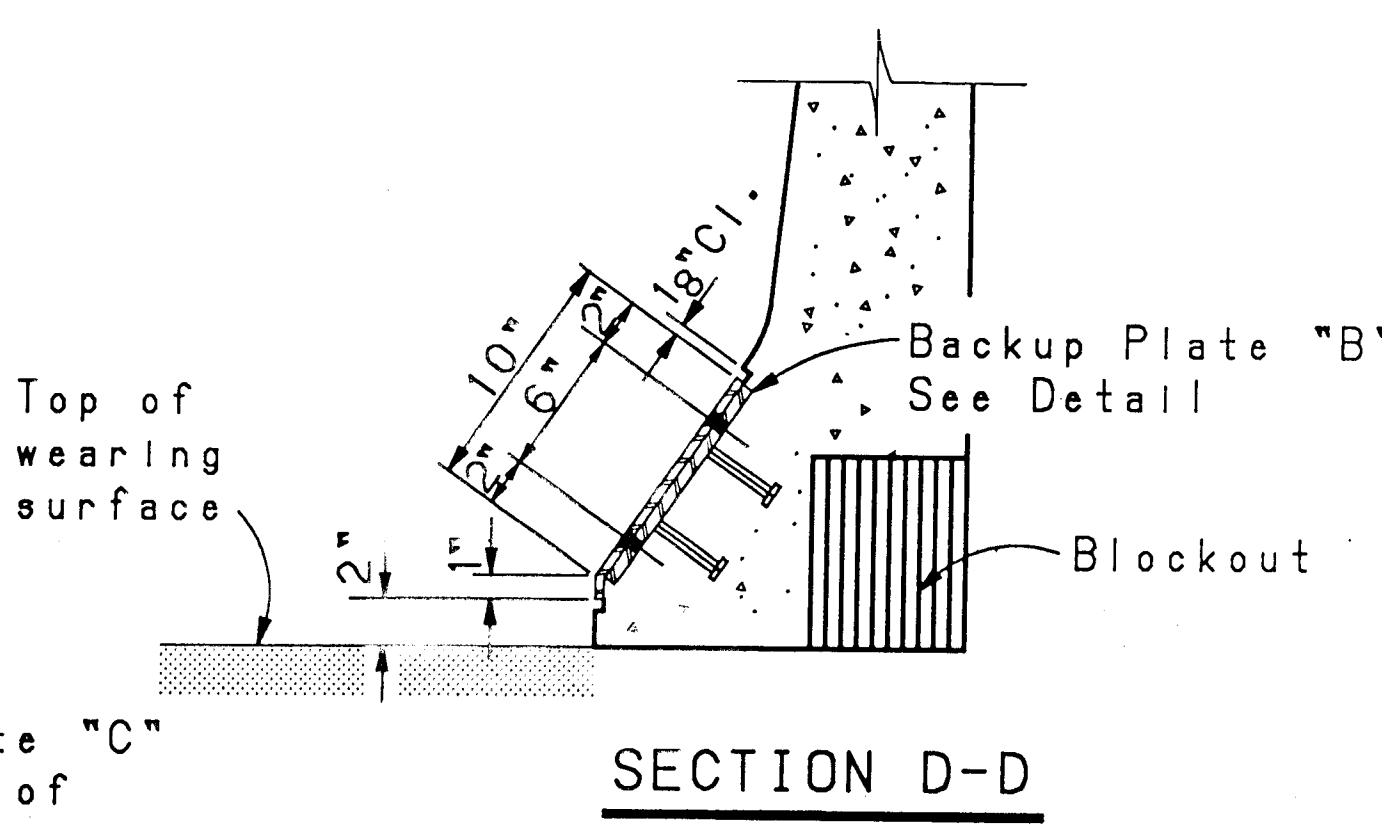
**PART PLAN-SKEW JOINT
AT CONCRETE BARRIER RAILING**



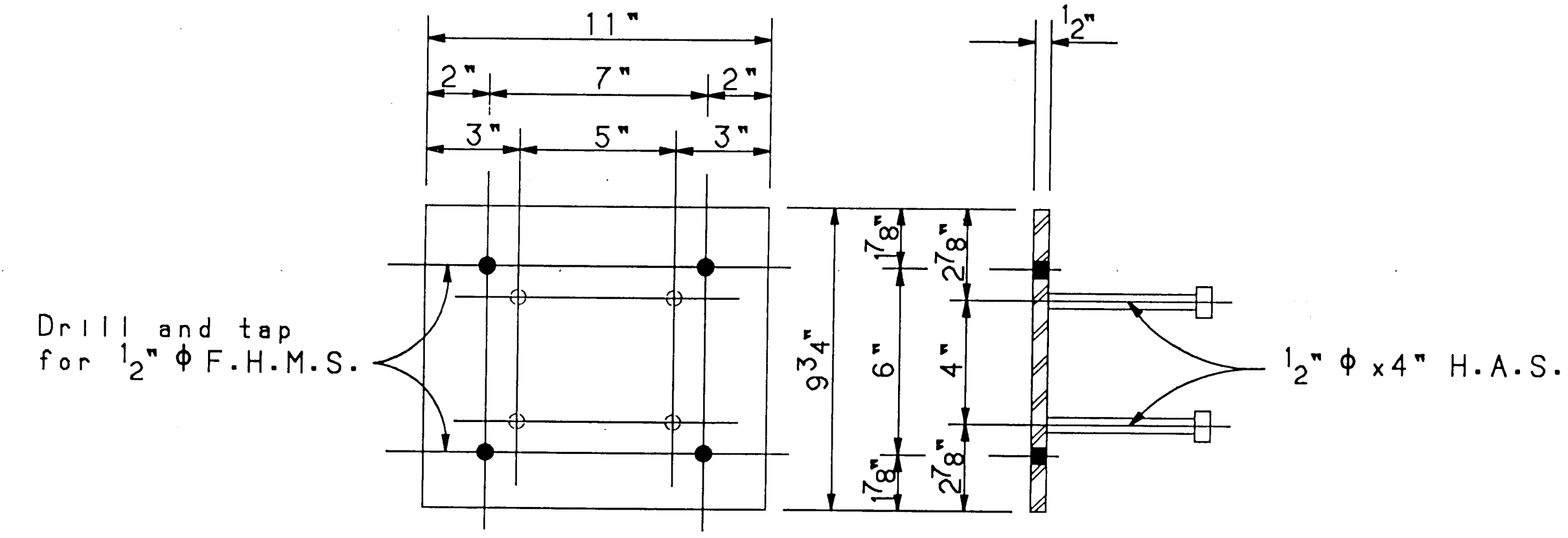
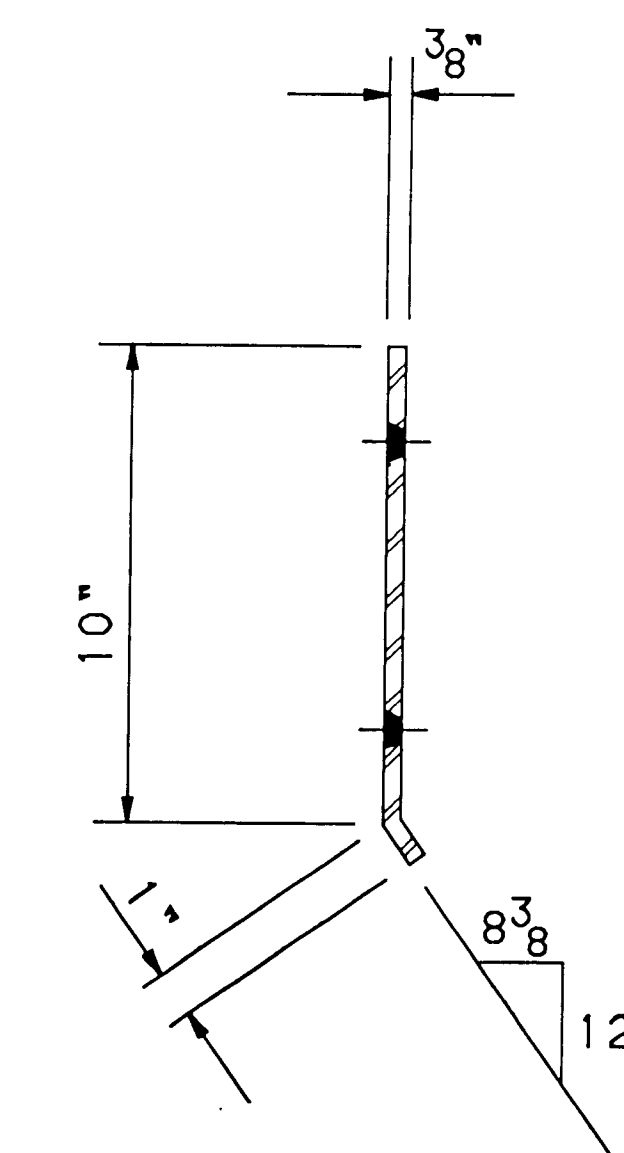
SECTION A-A
SIMILAR DETAIL FOR CURB AND SIDEWALK.
⊗ Blockout in base of Barrier Railing.



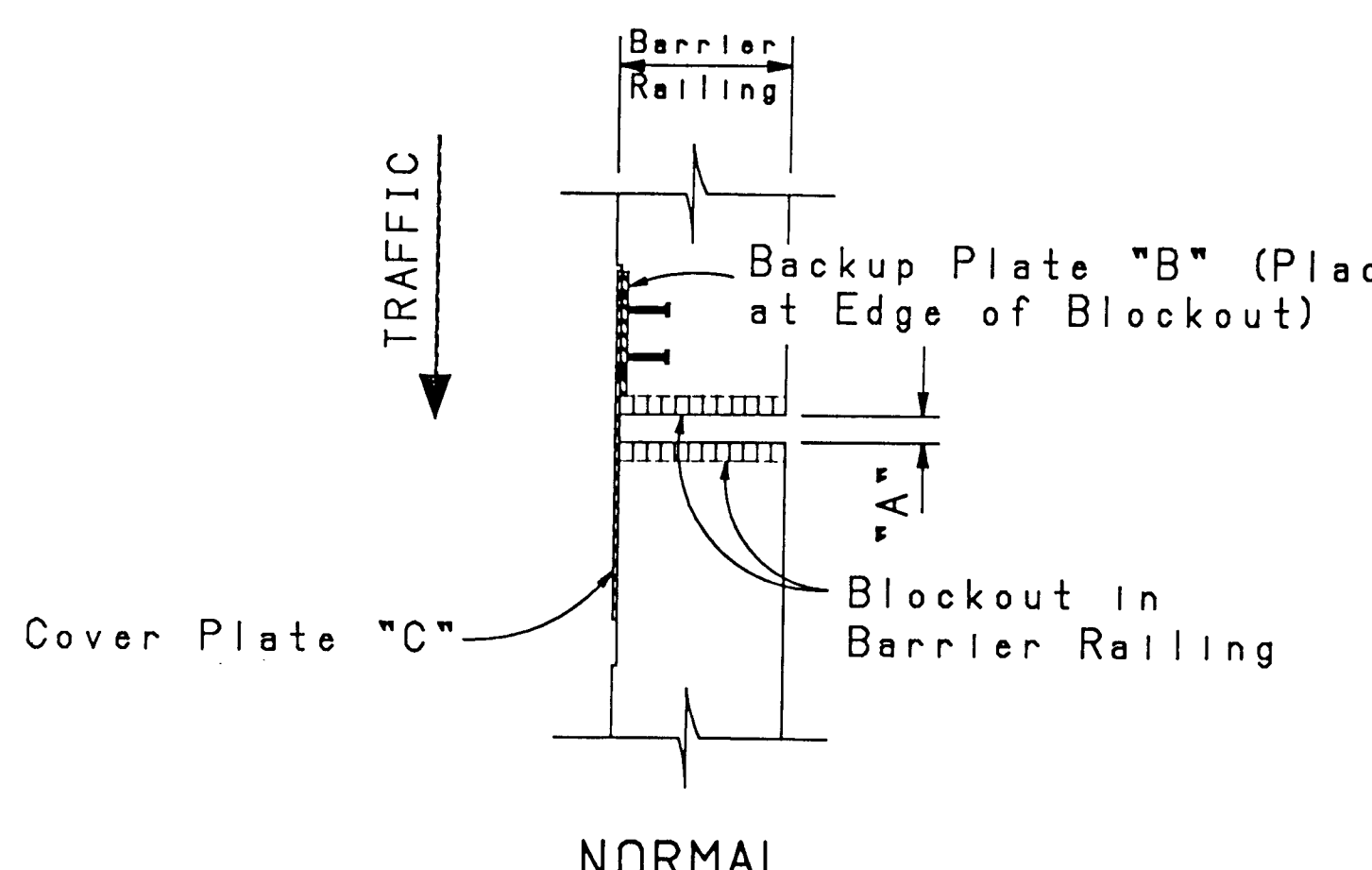
ELEVATION C-C
Provide Expansion Joints at each deck slab joint.



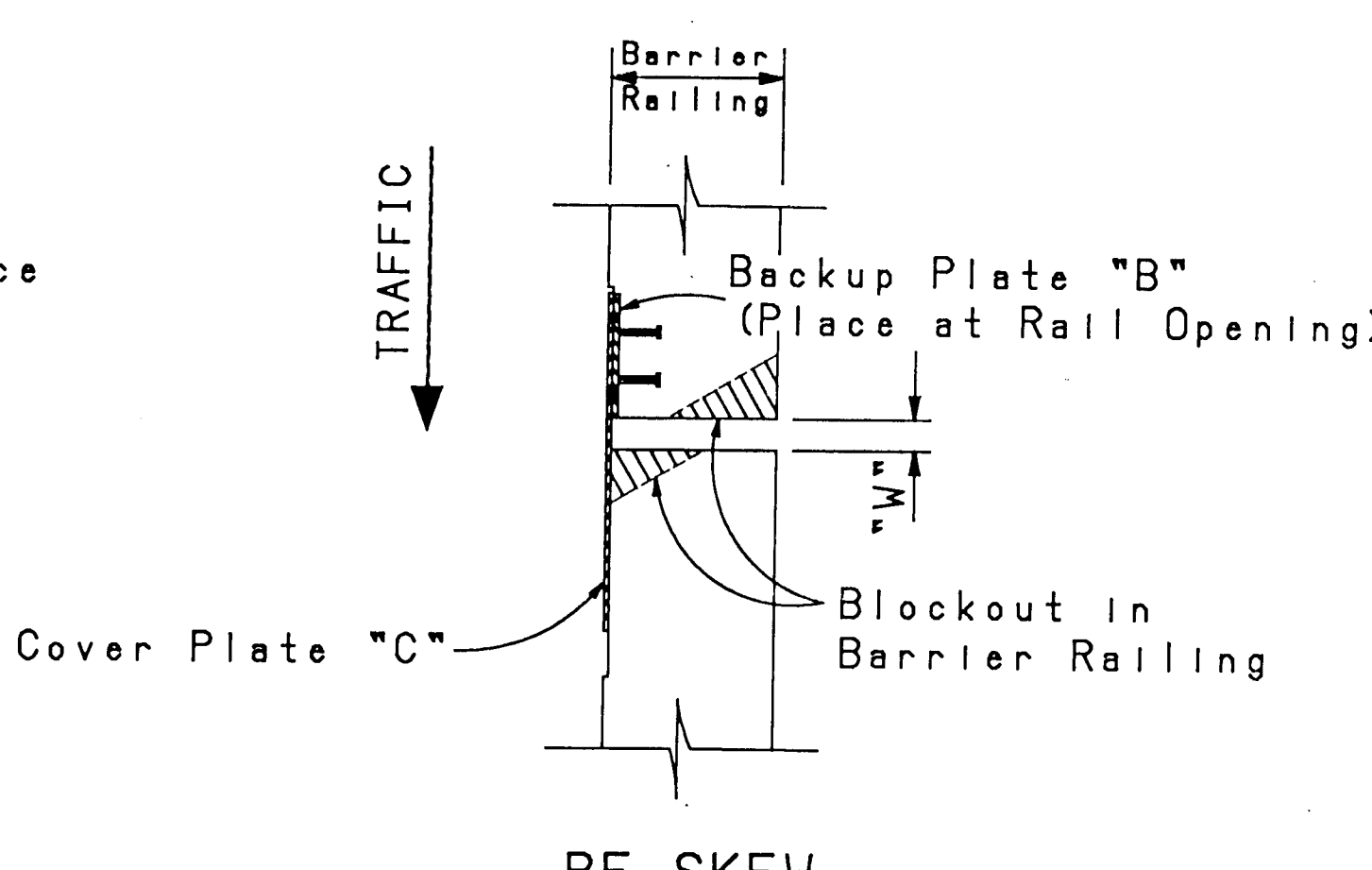
REMOVEABLE COVER PLATE "C"



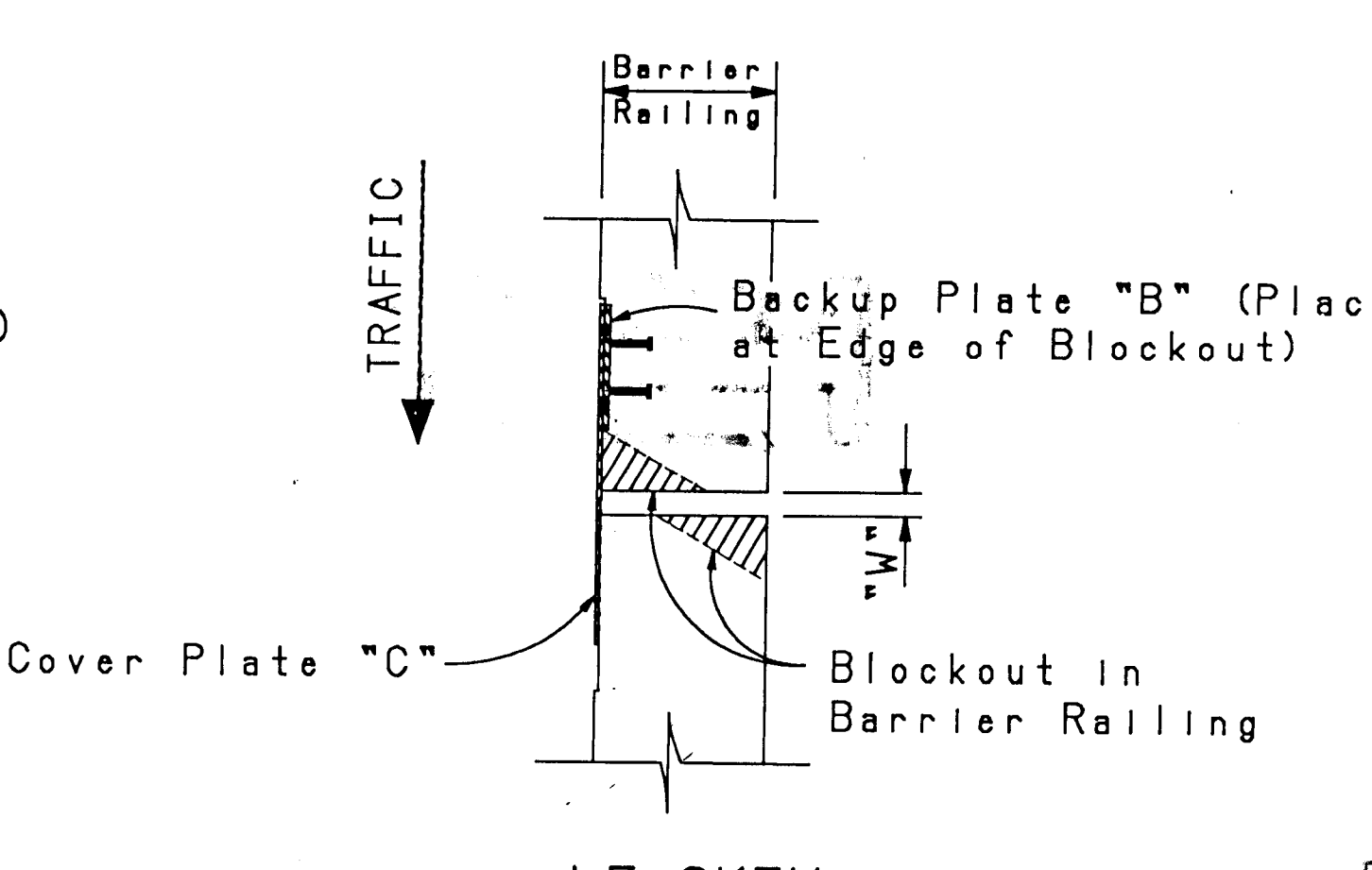
BACKUP PLATE "B"



NORMAL



RF SKEW



LF SKEW

BACKUP PLATE "B" LOCATIONS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 40 18 90 52 95

6			
5			
4			
3			
2			
1			
NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			
NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT			
BARRIER RAILING DETAILS AT JOINT SEALS			
LAYOUT BY: S.J.M.	APPROVED: <i>[Signature]</i>	DATE: 1/23/92	
DRAWN BY: J.A.K.	REVIEWED: <i>[Signature]</i>	DATE: 1/23/92	
CHECKED BY: S.J.M.	DESIGN BUREAU CHIEF: <i>[Signature]</i>	DATE: 1/23/92	
DRAWING 032			

DESIGNED BY: S.J.M. 4/90
CHECKED BY: J.A.K. 4/90
CHECKED BY: S.J.M. 5/90

PLOT DATE: 1/23/92