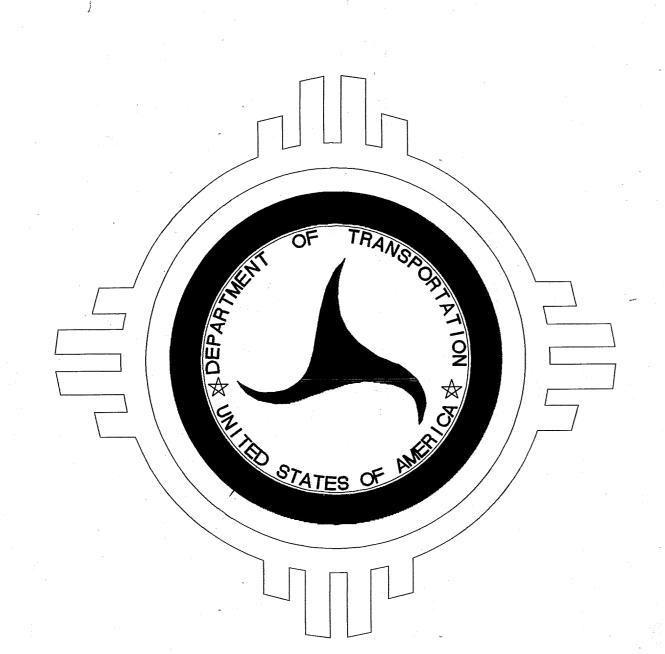
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT CONSTRUCTION PLANS



'STATE HIGHWAY

DEPARTMENT

TPE-CAQ-4078(4)

GIBSON BOULEVARD

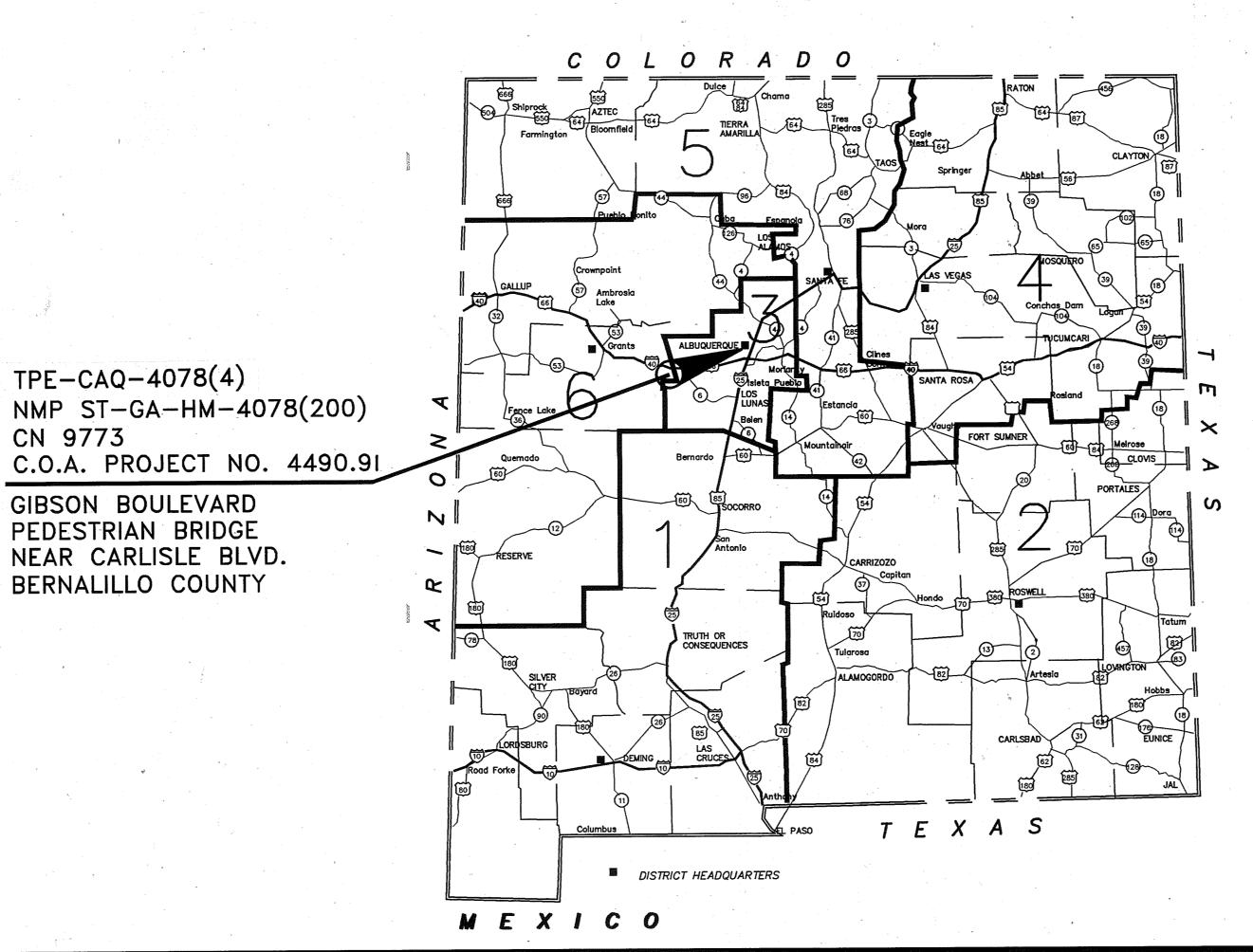
PEDESTRIAN BRIDGE

BERNALILLO COUNTY

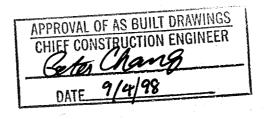
CN 9773

TPE-CAQ-4078 (4) ST-GA-HM-4078 (200) BERNALILLO COUNTY CN 9773

C.O.A. PROJECT NO. 4490.91







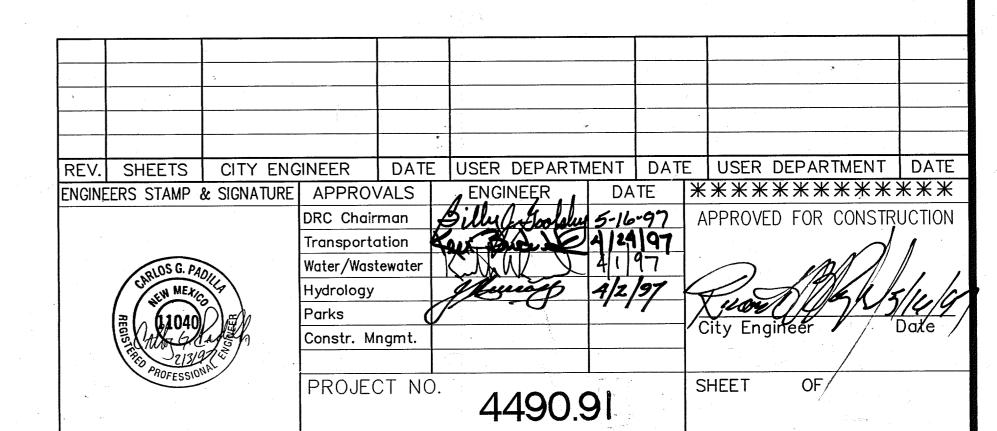


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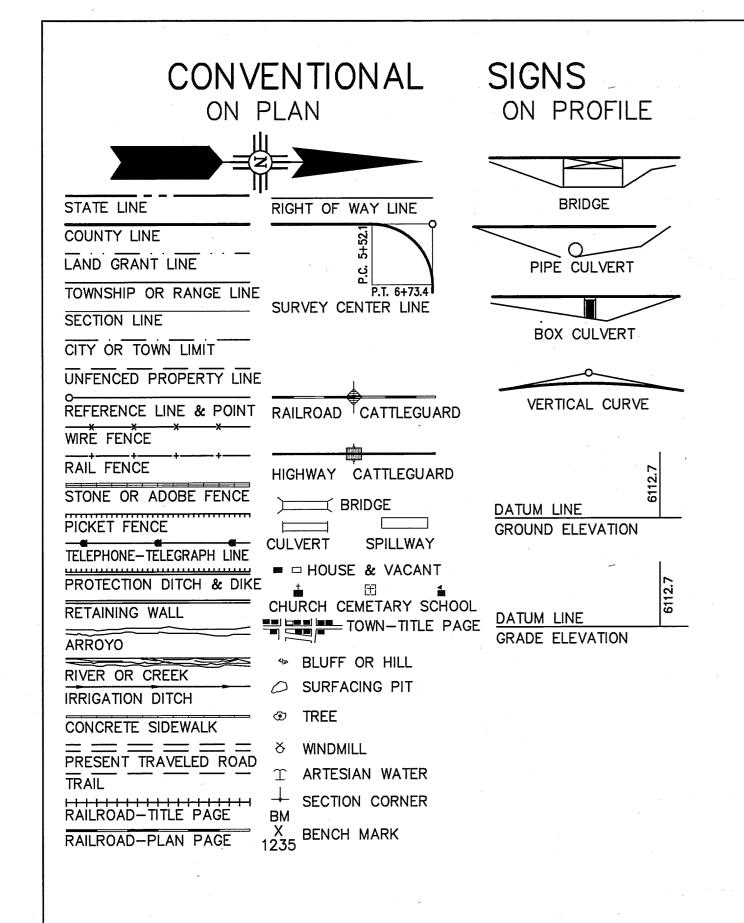
THIS PROJECT DESIGNATION HAS CHANGED TO TPE-CAQ-4078(4) AND HENCEFORTH ALL DRAWINGS AND CONSTRUCTION DOCUMENTS DESIGNATED TPE-4078(4) SHALL APPLY TO THIS PROJECT.

12/17/98 CARLOS G. PADILLA, P.E. NO. 11040 DATE

Civil - Structural - Transportation 5801 Osuna Rd. NE — Suite 200 Albuquerque, NM 87109 — (505) 881—5357



TPE-CAQ-4078(4)
NM PROJECT NO. ST-GA-HM-4078 (200) SHEET NO. 1-1 CN 9773 C.O.A. PROJECT NO 4490.9I



B O O K N U M B E R S

NONE

S C A L E S LAYOUT: 1" = 50'

SHIPPING POINTS

ALBUQUERQUE, NEW MEXICO

PROJECT LOCATION
NEAR CARLISLE BLVD.
PEDESTRIAN BRIDGE

VICINITY MAP

TYPE OF CONSTRUCTION

CONSTRUCTION CONSISTING OF PEDESTRIAN BRIDGE,
HANDICAP ACCESS RAMPS, STAIRCASE ACCESS,
SIDEWALK AND LIGHTING.

							5/92	5/92	5/92
	-			S			DATE	DATE	DATE
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ENGINEERING, INC. ivil Structural Transportation 5801 Osuna Rd. NE — Suite 200 Albuquerque, NM 87109 — (505) 881-5357				NO. DATE	-		DESIGNED BY DAA	DRAWN BY RL	снескер ву сср
CITY OF ALBUQUE PUBLIC WORKS DEPA		-	<u>Г</u>	_					

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
GIBSON BLVD. PEDESTRIAN BRIDGE
VICINITY MAP

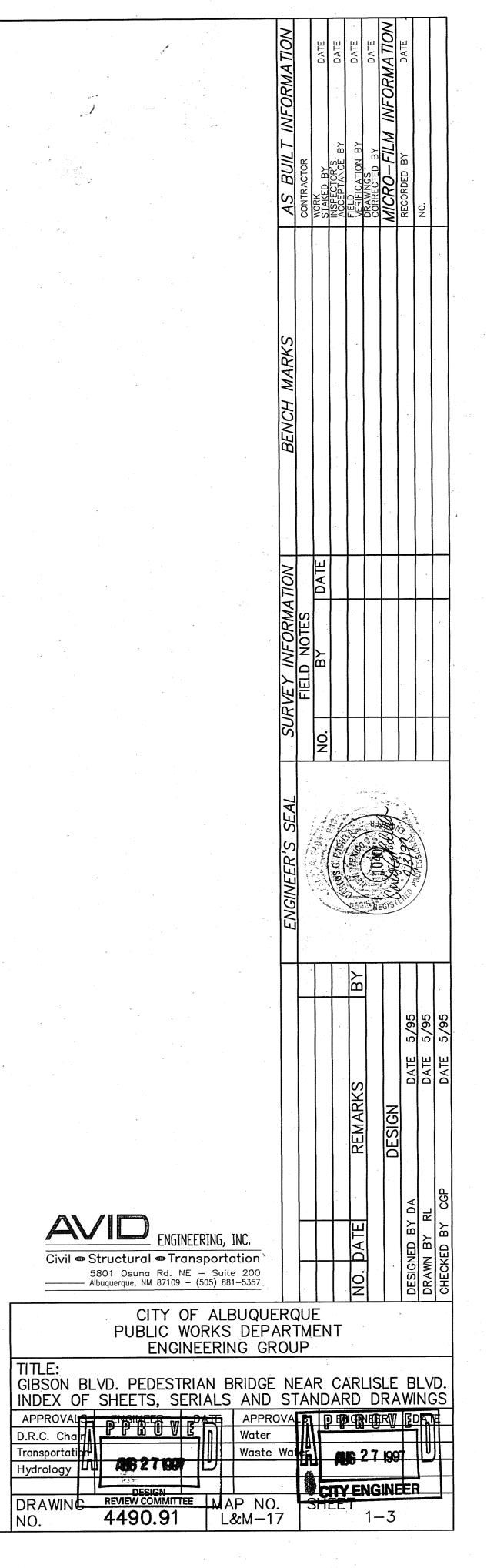
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20/37

INDEX OF SHEETS, SERIALS AND STANDARD DRAWINGS

HEET NO.	DESCRIPTION	REV.	DATE	SERIAL
1-1	TITLE SHEET			
· · · · · · · · · · · · · · · · · · ·				
1-2	VICINITY MAP			
1-3	INDEX OF SHEETS, SERIALS & STANDARD DRAWINGS			
1-4	SUMMARY OF QUANTITIES CARLISLE			
1-5	GENERAL NOTES, SUPPLEMENTAL SPECIFICATIONS			
	AND SPECIAL PROVISIONS CARLISLE			
	SUBTOTAL = 5			
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				*
•				
4-1	SIGNING & CONSTRUCTION TRAFFIC CONTROL STANDARDS	-		
4-2	TRAFFIC CONTROL PLAN CARLISLE	٠		
4-3	TRAFFIC CONTROL QUANTITIES CARLISLE			
4-4	TRAFFIC CONTROL SUMMARY QUANTITIES	,		
	SUBTOTAL = 4			
:				
5–1	GENERAL NOTES AND QUANTITIES — CARLISLE BRIDGE			,
	STRUCTURE LOCATION / UTILITY PLAN			
5-2		1		
5-3	SITE PLAN SOUTH RAMP			
5-4	SITE PLAN SOUTH RAMP	-	· · · · · · · · · · · · · · · · · · ·	·
5-5	PROFILE	-	3	
5-6	TYPICAL SECTION	<u> </u>		
5-7	PLATE GIRDER ELEVATIONS / DETAILS	<u> </u>		
5-8	BEARING DETAILS / FIELD SPLICE DETAILS			•
5-9	ACCESS RAMP ELEVATIONS		····	
5-10	ACCESS RAMP PLAN & FRAMING DETAILS			
5-11	ACCESS RAMP PLAN & SUPPORT CONNECTION DETAILS			
5-12	ACCESS RAMP DECK REINFORCING PLAN		-	
5-13	ACCESS RAMP ABUTMENT DETAILS			
5-14	ACCESS RAMP REINFORCING DETAILS			
5-15	NORTH RAMP FOUNDATION REINFORCING DETAILS			
5–16	SOUTH RAMP FOUNDATION REINFORCING DETAILS			- ,
5-17	PIER DETAILS		,	
5-18	RAILING LAYOUT PLAN - NORTH RAMP	<u> </u>		
5-19	RAILING LAYOUT PLAN - SOUTH RAMP	ļ.		
	RAILING ELEVATIONS - NORTH & SOUTH RAMPS			`
5-20			*	
5-21	STAIRWAY DETAILS - NORTH RAMP	<u> </u>		
5-22	STAIRWAY DETAILS - SOUTH RAMP			-
5-23	RAILING LAYOUT PLAN & ELEVATIONS - STAIRWAYS	<u> </u>		
5-24	BRIDGE LIGHTING DETAILS			
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	CITY OF ALBUQUERQUE STANDARD DRAWINGS			
9-1	STREET LIGHT FOUNDATION	MAR.	. 1992	COA DWG NO. 253
	NMSHTD STANDARD DRAWINGS			
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9-2	SIDEWALK, CURB AND GUTTER	6/0	6/94	BSCG-001
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9-3	ELASTOMERIC EXPANSION JOINT SEALS	8/1	2/96	BJS-001
<u> </u>	FOR BRIDGES, GENERAL DATA	-/-	,	
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0 4	ELASTOMERIC EXPANSION JOINT SEALS	Q /1	0/96	BJS-002
9-4		0/1	0/30	003-002
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GENERAL NOTES

- WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT'S STANDARD SPECIFICATION FOR HIGHWAY AND BRIDGE CONSTRUCTION, 1994 EDITION AND APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS. THE GENERAL CONDITIONS OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION THRU UPDATE #6, SHALL APPLY.
- 2.) CONSTRUCTION EQUIPMENT & MATERIAL STORAGE. THE CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIAL WITHIN 15 FEET FROM THE EDGE OF THE DRIVING LANE UNLESS THE EQUIPMENT OR MATERIAL IS PROPERLY SHIELDED UTILIZING CURRENT SAFETY DESIGN AND INSTALLATION METHODS. THE SAFETY DESIGN FOR SHIELDING SHALL BE PROVIDED BY THE CONTRACTOR AND MUST BE APPROVED BY THE PROJECT MANAGER BEFORE IMPLEMENTING. THIS WORK, INCLUDING DESIGN, INSTALLATION AND REMOVAL OF THE SHIELDING, SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
- 3.) INFORMATION PERTAINING TO THE MONUMENTATION PLANS FOR THIS PROJECT MAY BE OBTAINED FROM THE CITY SURVEYOR.
- 4.) THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT HORIZONTAL AND VERTICAL CONTROL SURVEY MONUMENTS (MARKS) FROM DAMAGE PRIOR TO INITIATING CONSTRUCTION. IF DURING THE COURSE OF CONSTRUCTION OPERATIONS, THE CONTRACTOR DISTURBS OR DESTROYS A MARK, THE CONTRACTOR SHALL ESTABLISH A NEW MARK IN COMPLIANCE WITH THE STANDARDS AND PROCEDURES SET FORTH IN THE "GEODETIC MARK PRESERVATIONS GUIDEBOOK", NATIONAL GEODETICAL SURVEY, MARCH 1990, CONTACT: NGS MARK PRESERVATION CENTER TELEPHONE (505)768—3606
- 5.) ITEMS DESIGNATED FOR REMOVAL WITHOUT SALVAGE, UNSUITABLE CONSTRUCTION MATERIALS AND DEBRIS FROM CLEARING AND GRUBBING ARE TO BE PLACED IN AN ENVIRONMENTALLY SUITABLE DISPOSAL SITE SECURED AND COORDINATED BY THE CONTRACTOR, WITH THE APPROPRIATE REGULATORY AGENCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER, IN WRITING, OF THE DETAILS OF THE DISPOSAL OPERATIONS. BORROW MATERIAL, ROCK WASTE, VEGETATIVE DEBRIS, ECT,..., SHALL NOT BE PLACED IN WETLAND AREAS OR AREAS WHICH MAY IMPACT ENDANGERED SPECIES OR ARCHAEOLOGICAL RESOURCES. AN ARCHEAOLOGICAL SURVEY AND ENVIROMENTAL CLEARANCE SHALL BE OBTAINED BY THE CONTRACTOR BEFORE DISPOSAL SITES ARE ACCEPTED IN ACCORDANCE WITH SUBSECTION 107.23 OF THE NMSHTD STANDARD SPECIFICATIONS "CONTRACTORS RESPONSIBILITY FOR ARCHAEOLOGICAL CLEARANCE".
- 6.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING AND CLEANUP OF SPILLS ASSOCIATED WITH PROJECT CONSTRUCTION AND SHALL REPORT AND RESPOND TO SPILLS OF HAZARDOUS MATERIALS SUCH AS GASOLINE, DIESEL, MOTOR OILS, SOLVENTS, CHEMICALS TOXIC AND CORROSIVE SUBSTANCES, AND OTHER MATERIALS WHICH MAY BE A THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING PAST SPILLS ENCOUNTERED DURING CONSTRUCTION AND OF CURRENT SPILLS NOT ASSOCIATED WITH CONSTRUCTION. REPORTS SHALL BE MADE IMMEDIATELY TO THE NM ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE TEAM AT 827–4308 or 470–3657 AND TO THE ENGINEER. ANY UNREPORTED SPILLS AFTER CONSTRUCTION AND ASSOCIATED WITH PROJECT CONSTRUCTION SHALL BE CLEANED UP BY THE CONTRACTOR IN ACCORDANCE WITH THE CONTRACT. THE CONTRACTOR SHALL BEAR THE FULL COST OF CLEAN UP OF SUCH UNREPORTED SPILLS.
- 7.) ALL PERMANENT AND CONSTRUCTION EASEMENTS ON PRIVATE PROPERTY WILL BE OBTAINED BY THE CITY OF ALBUQUERQUE PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 8.) CONTRACTOR STAGING AREAS OTHER THAN THE LIMITED AREAS OF THE CONSTRUCTION EASEMENTS WILL HAVE TO BE SECURED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- 9.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST NOTIFY NEW MEXICO ONE CALL SYSTEM, (505) 260-1990, FOR LOCATION OF EXISTING UNDERGROUND UTILITIES. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE LINE LOCATION SERVICE FOR EXACT LINE LOCATIONS.
- 10.) 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, INCIDENTAL TO CONSTRUCTION.
- 11.) 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 CONTRACTOR SHALL PROVIDE FOR THESE CONTINGENCIES WHEN BIDDING THE PROJECT AND NO CLAIM FOR DELAYS DUE TO UTILITY WORK WILL BE ALLOWED.
- 12.) 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

CONTINUATION OF GENERAL NOTES

- 13.) ALL ABANDONED UTILITY LINES WHICH ARE EXPOSED AS A RESULT OF CONSTRUCTION SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR IN AN ENVIRONMENTALLY ACCEPTABLE MANNER AT A LOCATION APPROVED BY THE PROJECT MANAGER AT NO ADDITIONAL COST TO THE CITY.
- 14.) 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. NO SEPERATE MEASUREMENT OR PAYMENT WILL BE MADE FOR REMOVING EXCAVATED MATERIAL REMOVED FROM THE SITE.
- 15.) THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES AT ALL TIMES DURING CONSTRUCTION.
- 16.) 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 STAKING", AND SHALL BE FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PERFORM THE WORK
- 17.) THE CONTRACTOR SHALL COORDINATE WITH PNM TO ACCOMPLISH THE WORK SHOWN ON SHEETS 5-2 & 5-24 OF THE PLANS. COORDINATION OF WORK WILL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF WORK AND NO SEPARATE PAYMENT WILL BE MADE.
- 18.) THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768–2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED IN KIND BY CONTRACTOR AT HIS OWN EXPENSE.
- 19.) THE AIR POLLUTION CONTROL REGULATIONS OF THE ALBUQUERQUE—BERNALILLO COUNTY AIR QUALITY CONTROL BOARD LIMIT EMISSION OF PARTICULATE MATTER AND THE USE OF CUT BACK ASPHALT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CLARIFY THESE RESTRICTIONS WITH THE ENVIRONMENTAL HEALTH DEPARTMENT PRIOR TO SUBMITTAL OF BIDS TO AVOID CONFLICT WITH THE REGULATIONS, PHONE—768—2600.
- 20.) THE TERMS ENGINEER & PROJECT MANAGER REFERENCED HEREIN MEAN THE ENGINEERING CONSTRUCTION MANAGER.
- 21.) CONTACT PRINCIPAL PETER ESPINOSA @ KIRTLAND ELEMENTARY AND CHUCK ATWOOD @ ALBUQUERQUE PUBLIC SCHOOLS 3 WORKING DAYS PRIOR TO WORK BEGINNING ON A.P.S. PROPERTY.
- 22.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRE TO COMPLETE THE PROJECT. ADDITIONAL REMOVALS NOT SHOWN ON THE PLANS WILL BE DESIGNED BY THE PROJECT MANAGER. THIS WORK WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT PRICE FOR ITEM 601000, "REMOVAL OF STRUCTURES AND OBSTRUCTIONS" AND THE CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR UNLISTED REMOVALS.
- 23.) THE CONTRACTOR SHALL PROPERLY HANDLE AND DISPOSE OF ASPHALT PAVEMENT MATERIAL DESIGNATED FOR REMOVAL BY HAULING TO AN APPROVED LANDFILL IN ACCORDANCE WITH THE REGULATIONS OF THE NEW MEXICO SOLID WASTE ACT.
- 24.) THE CONTRACTOR SHALL MAINTAIN AN UP-TO-DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE SHALL BE KEPT CURRENT WITHIN TWO WEEKS AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE ENGINEER THROUGHOUT THE PROJECT. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE PROJECT ENGINEER PRIOR TO FINAL PAYMENT.

ENVIRONMENTAL REQUIREMENTS

- 1.) EARTH DISTURBANCE AND REMOVAL OF EXISTING VEGETATION TO BE CONFINED TO CONSTRUCTION LIMITS.
- .) ENVIRONMENTALLY APPROVED DISPOSAL SITE AS PER GENERAL NOTE 5.
- 3.) ANY SPILLS OF HAZARDOUS MATERIALS MUST BE REPORTED AND CLEANED UP AS PER GENERAL NOTE 6.

ENVIRONMENTAL PROGRAM MANAGER

TECHNICAL SPECIAL PROVISIONS

MODIFYING SECTION 401 - PLANT MIX BITUMINOUS PAVEMENT (P.M.B.P.) (10/18/95)
MODIFYING SECTION 502 - DRILLED SHAFT CONCRETE BEARING PILES (1/25/96)
MODIFYING SECTION 511 - CONCRETE STRUCTURES, DATED (5/6/94)
SECTION 511-A - FOR REINFORCED CONCRETE FOR MINOR STRUCTURES (7/29/94)
MODIFYING SECTION 512 - SUPERSTRUCTURE CONCRETE, DATED (6/15/96)

MODIFYING SECTION 532 — PENÈTRATING WATER REPELLENT TREATMENT, DATED (6/28/94)

MODIFYING SECTION 540 — STEEL REINFORCING (9/25/95)

MODIFYING SECTION 540 — STEEL REINFORCING (9/25/95)

MODIFYING SECTION 618 — TRAFFIC CONTROL MANAGEMENT (9/03/96)

MODIFYING SECTION 667 - MANSONRY BLOCK WALL (9/25/95)

MODIFYING SECTION 702 - TRAFFIC CONTROL DEVICES FOR CONSTRUCTION (6/14/96)

MODIFYING SECTION 704 - PAVEMENT MARKINGS (1/24/97)

MODIFYING SECTION 708 - FOUNDATIONS FOR SIGNAL & LIGHTING INSTALLATIONS (9/25/95)

MODIFYING SECTION 709 - RIGID ELECTRICAL CONDUIT (9/25/95)

MODIFYING SECTION 711 - WRING (9/25/95)

MODIFYING SECTION 716 - LUMINAIRES (9/25/95)

MODIFYING SECTION 801 - CONSTRUCTION STAKING BY THE CONTRACTOR (6/12/95)

SUPPLEMENTAL SPECIFICATIONS

FOR SECTION 101 - PORTLAND CEMENT CONCRETE

LIST OF INCIDENTAL ITEMS

REINFORCING BARS IN UNIT PRICE FOR CONCRETE
BRIDGE DEDICATION PLATE
PREFORMED BITUMINOUS JOINT FILLER (AASHTO M213)
ELASTOMERIC BEARING PADS
SPECIAL SURFACE FINISH FOR NEW CONCRETE SURFACES
DRILL AND EPOXY PEDESTRIAN RAIL ANCHOR BOLTS,
(INCLUDING MATERIALS)
JUNCTION BOXES FOR LIGHTING
WIRING FOR LIGHTING
PENETRATING WATER REPELLANT TREATMENT.

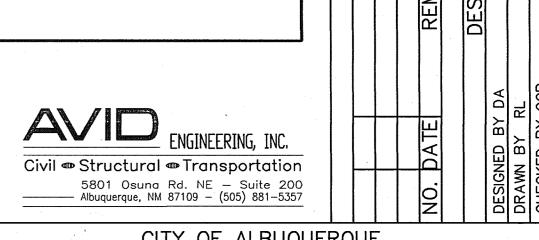
NON-SLIP NOSING FOR STAIR TREADS.

GENERAL NOTES 2 & 14

LIST OF REMOVAL OF STRUCTURES AND OBSTRUCTIONS

STA. 49+40 TO STA. 50+50 LT. REMOVE EXISTING C&G & ASHPALT PAVEMENT (TO LOCATION OF CMU WALL)—NORTH RAMP

STA. 49+25 TO STA. 50+60 RT. REMOVE EXISTING C&G & ASHPALT PAVEMENT TO FACILITATE RAMP CONSTRUCTION—SOUTH RAMP



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CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

- 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
- 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 7:00 A.M. OR END WORK AFTER 7:00 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: STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. 2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION. 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 IT'S PLACEMENT AND MAINTENANCE.
- 25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.
- 26. ADVANCE WARNING SIGNS SHALL BE 36"x36" WITH SUPER ENGINEERING GRADE SHEETING OR BETTER.



REDUCED

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ACCESS TO

SPECIAL SIGN 50

ONE WAY

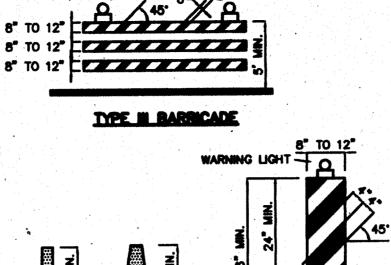
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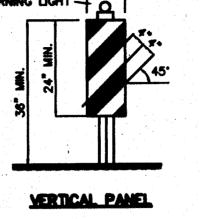
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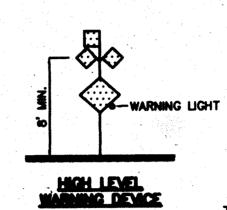
ROAD WORK AHEAD

ENTER



BASE VARIES





LEGEND

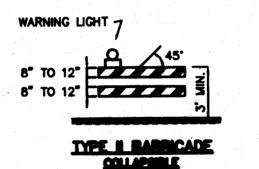
WORK AREA BARRICADE - TYPE I, TYPE II, OR BARREL BARRICADE - TYPE III

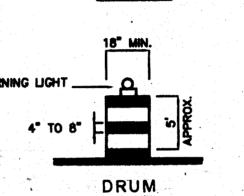
VERTICAL PANEL

DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET

SPACING BETWEEN BARRICADES- A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET TAPER LENGTH - SEE CHART BELOW

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.





8" TO 12"

W1-6(R)

LANE CLOSED

R11-2a

CLOSED

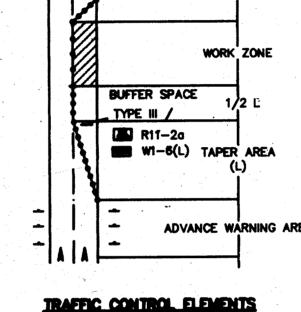
R11-2

ALL CONSTRUCTION WARNING SIGNS

ORANGE BACKGROUND.

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TAPER REQUIREMENTS MINIMUM MAXIMUM DEVICE NUMBER | SPACING IN FEET ALONG AFTER LANE LANE TAPER TAPER 20 70 75 25 105 115 125 30 165 180 150 225 245 35 295 320 40 495 500 13 50 550 600 605 660 13 55 550

TERMINATION AREA ADVANCE WARNING AREA

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

SPEED	MINIMUM DIST	TANCE IN FEET
MILES PER HOUR	BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

TAPER CRITERIA

TYPE OF TAPER TAPER LENGTH

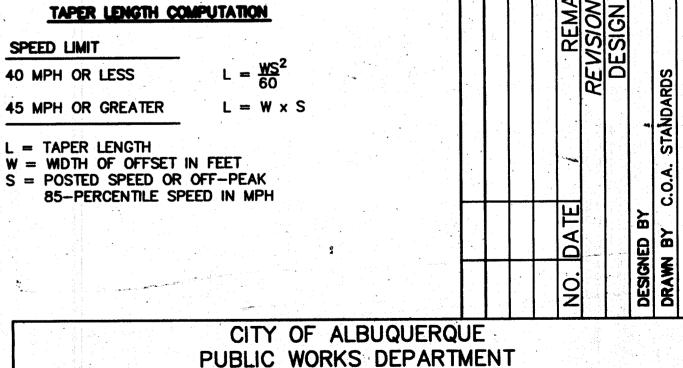
UPSTREAM TAPER: MERGING TAPER SHIFTING TAPER SHOULDER TAPER TWO-WAY TRAFFIC TAPER

DOWNSTREAM TAPERS

L MINIMUM 1/2 L MINIMUM 1/2 L MINIMUM 100 FEET MAXIMUM

100 FEET PER LANE

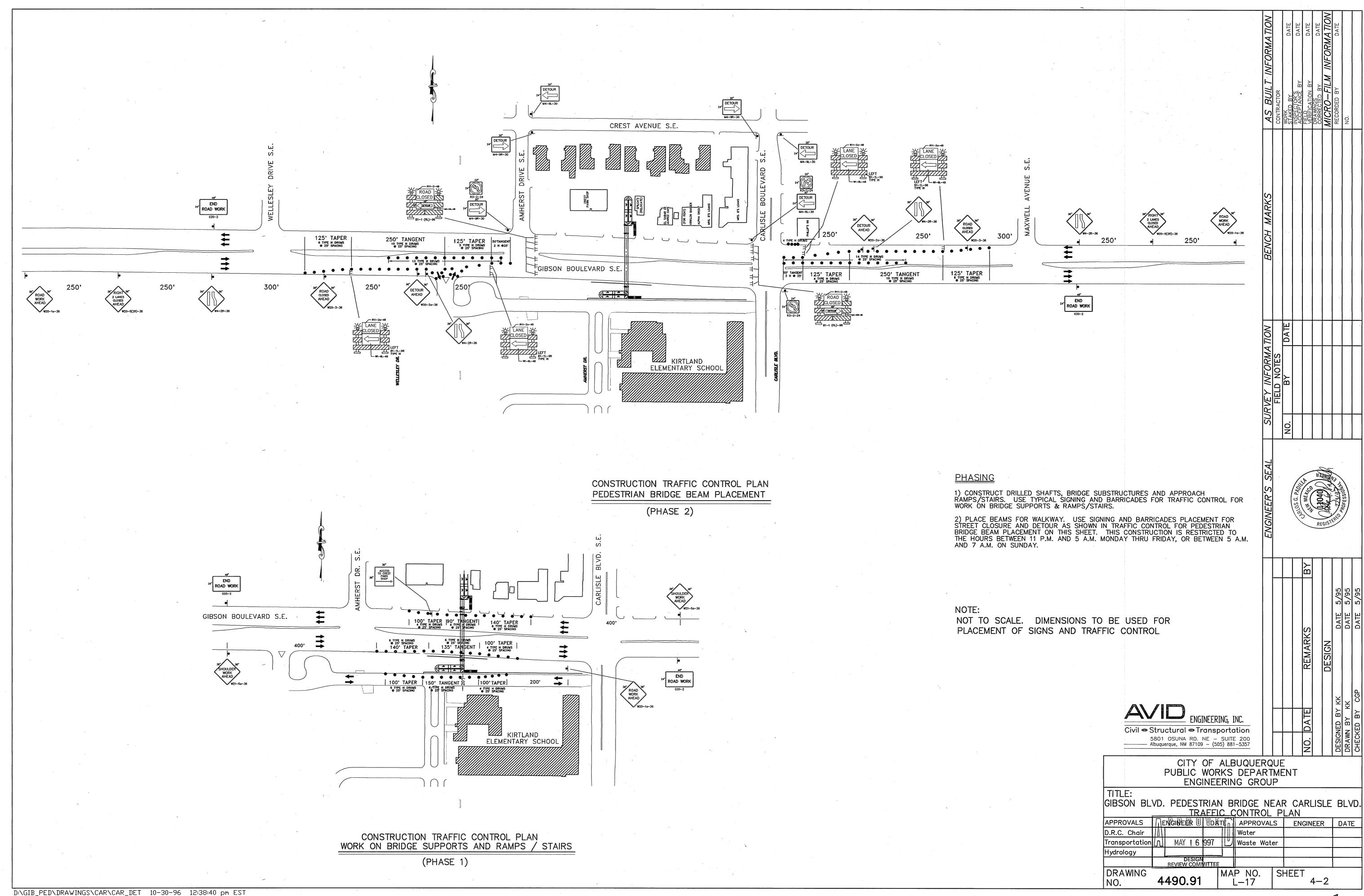
40 MPH OR LESS 45 MPH OR GREATER



ENGINEERING DEVELOPMENT GROUP TITLE: GIBSON BLVD. PED. BRIDGE NEAR CARLISLE BLVD. SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS DESIGN REVIEW COMMITEE | CITY ENGINEER APPROVAL PROJECT NO. SHEET 4490.91

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SUMMARY OF QUANTITIES

ITEM NO.	BID ITEM	UNITS	CARLISLE		TOTAL
606012	W-BEAM / BARREL BARRIER	LIN. FT.			es e
606403	PRECAST CONCRETE WALL BARRIER TYPE II	LIN. FT.			
606405	HAULING OF PRECAST WALL BARRIER	LIN. FT.			
606410	RESETTING OF PRECAST WALL BARRIER	LIN. FT.			-
702000	CONSTRUCTION SIGNING	- SQ. FT.	477		477
702100	STEEL POSTS AND BASE POSTS	LIN. FT.	*		
	FOR CONSTRUCTION SIGNING				
702110	PORTABLE SIGN SUPPORT	EACH	18		18
702210	BARRICADE, TYPE I	EACH			
702220	BARRICADE, TYPE II	EACH		·	
702236	BARRICADE, TYPE III (6 FT.)	EACH			
702238	BARRICADE, TYPE III (8 FT.)	EACH	18		18
702240	CONSTRUCTION TRAFFIC MARKER	EACH	1.9		
702310	VERTICAL PANEL SINGLE TYPE	EACH			
702320	VERTICAL PANEL BACK TO BACK	EACH			
702329	CHANNELIZATION DEVICE BARREL TYPE "A"	EACH	·		
702545	CHANNELIZATION DEVICES TYPE DRUM	EACH	81		81
702525	SEQUENTIAL ARROW DISPLAY	EACH			
702000	TUBULAR TRAFFIC MARKER	EACH	,		
703300	REFLECTIVE BARRIER DELINEATOR	EACH	:		A A A A A A A A A A A A A A A A A A A
704000	REFLECTORIZED PAINTED MARKINGS	LIN. FT.	. ,	1	
704015	ADHESIVE MARKING TAPE FOR	LIN. FT.			
704013	CONSTRUCTION ZONES	Litte			N.
704016	ADHESIVE NON-METALLIC MARKING TAPE	LIN. FT.			
	TEMPORARY REFLECTIVE PAVEMENT	EACH			
717140	MARKER TYPE "D"				
700100	SAND-BARREL VEHICULAR IMPACT	EACH	12		
720100	ATTENUATOR UNIT	LACIT			
701000		LIN. FT.			
721000	REMOVAL OF PAVEMENT STRIPE CLEANING OF REFLECTIVE SURFACES ON	SQ. FT.			
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NOTES:

- TRAFFIC CONTROL PLANS AND QUANTITIES MAY VARY AS FIELD CONDITIONS DICTATE. THE CONTRACTOR WILL BE PAID FOR ACTUAL QUANTITIES USED. PLACING, RELOCATING AND MAINTENANCE OF TRAFFIC CONTROL DEVICES AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE PROJECT MANAGER ARE TO BE INCIDENTAL TO THE UNIT BID PRICE.
- ALL TRAFFIC CONTROL DEVICES FOR DETOURS SHALL COMPLY WITH STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION — SECTION 702 (1994 EDITION) AND CHAPTER VI OF THE 1988 EDITION MUTCD AND CURRENT REVISIONS.
- ALL CONSTRUCTION SIGNING SHALL BE BLACK ON REFLECTIVE ORANGE UNLESS OTHERWISE SPECIFIED. ALL CONSTRUCTION BARRICADES AND CHANNELIZATION DEVICES SHALL BE ORANGE ON WHITE REFLECTORIZED UNLESS OTHERWISE SPECIFIED.
- 4. BID ITEM (STEEL POSTS AND BASE POSTS FOR DETOUR SIGNS). THE CONTRACTOR SHALL HAVE THE OPTION OF SUPPLYING EITHER THE FLANGED CHANNEL OR THE DRIVEDOWN POST AS PER NEW MEXICO STANDARD SERIALS SN 75-1, DRAWING #033 SHT. 1 & 2.
- 5. BID ITEM (TYPE III BARRICADE 6' OR 8'). TYPE III BARRICADES SHALL BE ORANGE ON WHITE REFLECTORIZED. ATTACHED TYPE "A" FLASHING BEACONS, PLYWOOD ARROW AND ROAD OR LANE CLOSED SIGNS ARE TO BE INCIDENTAL TO BID PRICE.
- 6. BID ITEM (TYPE I BARRICADE 2'). TYPE I BARRICADE SHALL BE ORANGE ON WHITE REFLECTORIZED. ATTACHED HIGH INTENSITY FLASHING BEACON ARE TO BE INCIDENTAL TO BID PRICE. BID UNIT PER EACH.
- 7. BID ITEM (VERTICAL PANELS, SINGLE OR BACK TO BACK 8" X 24").
 VERTICAL PANELS SHALL BE ORANGE ON WHITE REFLECTORIZED SHEETING,
 .060 MIN. 6061 T—6. PANELS TO BE MOUNTED ON DRIVEDOWN POST EITHER
 3' DRIVE OR ON STANCHION. BID UNIT PER EACH.
- 8. FLAGGING SHALL BE PROVIDED FOR SAFETY AND/OR AS DIRECTED BY THE PROJECT MANAGER. FLAGGERS SHALL USE STOP/SLOW PADDLES (18" X 18" MIN) IN ACCORDANCE WITH THE MUTCD. THE FLAGGER, APPLICABLE SIGNS AND OTHER RELATED ITEMS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION. NO PAYMENT OR MEASUREMENT WILL BE MADE THEREFORE.
- 9. BID ITEM (CHANNELIZATION DEVICE DRUM TYPE "H"). CHANNELIZATION DEVICE DRUMS SHALL BE ORANGE ON WHITE REFLECTORIZED.
- 10. THE PROVISIONS AS INCLUDED IN THE PLANS AND SPECIFICATIONS FOR HANDLING AND CONTROLLING TRAFFIC DURING CONSTRUCTION OF THE PROJECT MAY BE CHANGED BY THE DISTRICT TRAFFIC ENGINEER. IF, BECAUSE OF FIELD CONDITIONS AS ACTUALLY ENCOUNTERED, SUCH CHANGES WILL BE MADE BY WRITTEN INSTRUCTION TO THE CONTRACTOR, AND SHALL BE CONSIDERED AN AMENDMENT TO THE PLANS AND SPECIFICATION AS OF THE DATE OF THE CHANGE.
- 11. THE CONTRACTOR SHALL SUBMIT ANY PROPOSED CHANGES IN THE TRAFFIC CONTROL PLAN TO THE CITY TRAFFIC ENGINEER FOR APPROVAL.
- 12. NO PAYMENT WILL BE MADE FOR ANY ADDITIONAL COST RESULTING FROM APPROVED TRAFFIC CONTROL PLAN CHANGES REQUESTED BY THE CONTRACTOR.

- 13. ITEM 704000 IS INCLUDED FOR PAYEMENT STRIPING BETWEEN SURFACING LIFTS AS DIRECTED DY THE PROJECT MANAGER.
- 14. BID HEM (SAND BARREL VEHICULAR IMPACT ATTENUATOR UNIT) SAND BARREL VEHICULAR IMPACT ATTENUATOR UNLESS OTHERWISE SPECIFIED, SHALL BECOME THE PROPERTY OF THE STATE OF NEW MEXICO AT COMPLETION OF CONSTRUCTION AND SHALL NOT REVERT TO THE CONTRACTOR. THIS ITEM SHALL BE DELIVERED AND STOCKPILED AT LOCATIONS DIRECTED BY THE
- 15. THE CONTRACTOR SHALL HAVE A RESPONSIBLE PERSON ON SITE DURING WORKING HOURS AND ON CALL DURING NON-WORKING HOURS TO INSPECT AND MAINTAIN PROJECT TRAFFIC CONTROL, OR AS DIRECTED BY THE PROJECT MANAGER.
- 16. ALL NON-APPLICABLE SIGNING SHALL BE REMOVED OR COVERED COMPLETELY WITH AN OPAQUE NON-LIGHT TRANSMITTING MATERIAL. ALL REMAINING, NON-APPLICABLE TRAFFIC CONTROL DEVICES ARE TO BE REMOVED AND STORED AT LOCATIONS DESIGNATED BY THE PROJECT MANAGER.

PID ITEM — (PRECAST CONCRETE WALL BARRIER — REFERRED TO AS CWB). ALL PRECAST CWB PROVIDED BY THE CONTRACTOR SHALL BE NEW CWB COMPLETE WITH SHOP DRAWINGS. PRECAST CWB WHEN USED FOR TRAFFIC CONTROL FURPOSES, SHALL BECOME THE PROPERTY OF THE STATE OF NEW MEXICO AT COMPLETION OF THE PROJECT AND SHALL NOT REVERT TO THE CONTRACTOR UNLESS OTHERWISE SPECIFIED.

PRECAST CWB SHALL BE FABRICATED IN 10' LIMITS TO THE DIMENSIONS SHOWN ON PLANS. ALL PRECAST CWB UTBLIZED IN THE WORK SHALL BE OF SAME LENGTH AND DESIGN, INTERMIXING WILL NOT PLALLOWED. WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF SECTION 510 - PORTLAND CEMENT CONCRETE, SECTION 504.22 (C) - STEEL REINFORCEMENT.

WHEN NEW PRECAST CWB IS CALLED FOR ON PLAN, THE SWB SHALL BE DELIVERED TO THE DESIGNATED AREA AND SITE AT COMPLETION OF WORK. CONTRACTOR IS TO UNLOAD AND STOCKPILE PRECAST CWB AS DIRECTED BY THE DROJECT MANAGER. HAULING AND STOCKPILING OF NEW PRECAST CWB TO DESIGNATED AREA AND SITE SHALL BE INCIDENTAL TO THE ITEM FOR PRECAST CWB.

- 18. THE FOLLOWING PROCEDURES SHALL GOVERN ALL TRAFFIC CONTROL PLANS INVOLVING SINGLE LANE TRAFFIC. THE REGULATORY AND ADVISORY SPEED LIMIT POSTINGS, AS PART OF THESE TRAFFIC CONTROL PLANS ARE SHOWN ON THE SIGN FACE DETAIL SHEET. FOR VARIATION IN THE TRAFFIC CONTROL PLAN, AN ENGINEERING STUDY SHALL BE PERFORMED BY THE CITY TRAFFIC ENGINEER, IN ACCORDANCE WITH SECTION 2B-10 OF THE 1988 EDITION OF THE MUTCD AND CURRENT REVISIONS.
- 19. EACH SIGN FACE SHOWN ON PLANS SHALL MEET THE SPECIFICATIONS IN THE STANDARD HIGHWAY SIGNS MANUAL (1988 EDITION) FOR PROPER ARRANGEMENT, SPACING OF LETTERS, LETTER HEIGHT, LETTER SERIES, SYMBOLS, AND BORDERS FOR THE SPECIFIED SIZE AND MESSAGE AS SHOWN ON THE PLANS.

ENCINEER'S SEAL SURVEY INFORMATION BENCH MARKS AS BUILT INFO

FIELD NOTES

NO. BY DATE STAKED BY INSCEPTION BY INSCREDE BY INSCRED BY INSCREDE BY

ENGINEERING, INC.				
Civil - Structural - Transportation				
5801 Osuna Rd. NE — Suite 200 Albuquerque, NM 87109 — (505) 881—5357				
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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP

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REMARK

DRAWINGS REQUIRED

GENERAL NOTES AND QUANTITIES STRUCTURE LOCATION SHEET AND FOUNDATION DATA SUPERSTRUCTURE DETAILS SUBSTRUCTURE DETAILS

SHEET NO. 5-2 THRU 5-4 5-5 AND 5-16 5-17 THRU 5-24

GENERAL NOTES

WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT'S STANDARD SPECIFICATION FOR HIGHWAY AND BRIDGE CONSTRUCTION, 1994 EDITION AND APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS. THE GENERAL CONDITIONS OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION THRU UPDATE #6, SHALL APPLY.

DRILL-HOLE INFORMATION. CITY IS NOT RESPONSIBLE FOR ANY INTERPRETATION OR ASSUMPTIONS MADE BY THE CONTRACTOR BASED ON THE DRILL-HOLE INFORMATION SHOWN ON THE PLANS.

FINISHING CONCRETE SURFACES. THE CONCRETE SURFACES LISTED BELOW SHALL RECEIVE A CLASS 4, SPECIAL SURFACE FINISH. THE COLOR OF THE FINISH SHALL BE AS FOLLOWS:

ACCENT STRIPS

EXPOSED VERTICLE SURFACES OF ACCESS

RAMPS, STAIRWAY SUPPORT STRUCTURES, ABUTMENTS AND PIERS (EXCEPT ACCENT STRIPS)

THOROSEAL "WREATH GREEN" 33-24 D

A 1FT. X 1FT. SAMPLE PANEL OF EACH COLOR OF THE PROPOSED FINISH MATERIALS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. PRODUCTS OTHER THAN SPECIFIED REQUIRE

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.

CONCRETE WALKING SURFACES ON THE PEDESTRIAN BRIDGE, ACCESS RAMPS, AND STAIRS SHALL RECEIVE A HEAVY BROOM FINISH APPLIED TO THE PLASTIC CONCRETE.

REINFORCING BARS. REINFORCINGS BARS SHALL BE GRADE 60 UNLESS NOTED OTHERWISE. DIMENSIONS SHOWN REFER TO THE CENTERLINE OF BARS UNLESS NOTED OTHERWISE. COST OF REINFORCING SHALL BE INCLUDED IN THE UNIT PRICE OF CONCRETE. REBAR QUANTITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY ALL REBAR QUANTITIES.

STRUCTURAL STEEL. STRUCTURAL STEEL SHALL CONFORM TO THE REQUREMENTS OF THE GRADES LISTED BELOW:

PRIOR APPROVAL OF THE ENGINEER.

FLANGE, WEB, CONNECTION PLATES, CHANNELS POSTS, BRACING, EXPANDED METAL, HAND RAILING, SOLE PLATES, PED. RAILINGS

GRADE 50 (AASHTO M 270) GRADE 36 (AASHTO M 270)

THOROSEAL "MEXICANA" 9-24 D

STRUCTURAL STEEL SHALL BE CARBON STEEL CONFORMING TO AASHTO SPECIFICATION M-183. UNLESS NOTED OTHERWISE ON THE DETAILS. SHOP PLANS MUST BE APPROVED

BY THE ENGINEER BEFORE FABRICATION IS STARTED. COLOR OF PAINT FOR STRUCTURAL STEEL. THE COLOR OF THE TOP (IMRON 333) AND PROTECTIVE COAT (25 P PRIMER) OF PAINT FOR STRUCTURAL STEEL ITEMS AND METAL BRIDGE RAILING SHALL BE AS FOLLOWS:

SURFACE

BRIDGE BEAMS (i.e. FLANGES, WEBS &

<u>COLOR</u> DUPONT 33 D

CONNECTION PLÀTES, TENSION LINKAGES) AND STAIRWAY FRAMING.

DUPONT 12 D

LATERAL BRIDGE BRACING (i.e. STRUCTURAL TUBING EXPANDED METAL FABRIC, HAND RAILING), PEDESTRIAN RAILING.

PRIOR TO APPLICATION OF THE PAINT, COLOR SAMPLES ON 1'X1' PANELS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. THE APPROVED PANELS SHALL BE USED AS A CONTROL TO MATCH AREAS TO BE PAINTED. PRODUCTS OTHER THAN SPECIFIED SHALL REQUIRE PRIOR APPROVAL OF THE ENGINEER.

BRIDGE DEDICATION PLATE. ONE BRONZE DEDICATION PLATE AS SHOWN ON THIS SHEET SHALL E PROVIDED BY THE CONTRACTOR AS AN INCIDENTAL ITEM. CONTENT AND DETAILS OF THE LETTERING WILL BE PROVIDED TO THE CONTRACTOR BY THE ENGINEER AT THE TIME OF CONSTRUCTION.

11. BOLTED CONNECTIONS. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS UNLESS OTHERWISE NOTED. THE SIZE OF THE BOLTS SHALL BE AS NOTED ON THE DETAILS.

12. BRIDGE SEATS: AFTER COMPLETION OF THE BRIDGE AND ACCESS RAMPS, TOP SURFACES OF ALL BRIDGE SEATS SHALL BE THOROUGHLY CLEANED OF ALL DIRT. CONCRETE AND OTHER DEPOSITED MATERIALS.

FOUNDATION NOTES

1. THE FOUNDATION CONTRACTOR SHALL MEET THE PREQUALIFICATION REQUIREMENTS AS COVERED IN THE STANDARD SPECIFICATIONS FOR DRILLED SHAFT FOUNDATIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SUPPORT OF THE REINFORCING CAGE DURING FABRICATION, ERECTION AND PLACEMENT OF THE CONCRETE. PLANS SHOWING REINFORCING CAGE SUPPORT AND METHODS OF ERECTION SHALL BE SUBMITTED TO THE BRIDGE FOUNDATION ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

3. TOPS OF DRILLED SHAFTS SHALL BE WITHIN 3" OF PLAN LOCATIONS. SEE TECHNICAL SPECIAL PROVISION FOR DRILLED SHAFT FOUNDATIONS.

4. ANY CONSTRUCTION JOINT NOT SHOWN ON THE PROJECT PLANS WILL REQUIRE THE APPROVAL OF THE ENGINEER PRIOR TO CONSTRUCTION.

5. VARIATION IN FOUNDATION MATERIAL ENCOUNTERED DURING DRILLING MAY REQUIRE FIELD ADJUSTMENTS OF DRILLED SHAFT DEPTH.

ITEM NO.	ITEM	UNIT	SUPER STRUCT.	NORTH ACCESS RAMP	NORTH STAIRWAY	PIER #1	PIER #2	SOUTH ACCESS RAMP	SOUTH STAIRWAY	TOTAL
			· ***			-				
210000	STRUCTURE EXCAVATION AND BACKFILL FOR BRIDGES	CU. YDS.		710		-	j davit	710	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1420
502030	DRILLED SHAFT FOUNDATION 30" DIAMETER	LIN FT.	-		72			· · · · · · · · · · · · · · · · · · ·	36	108
502042	DRILLED SHAFT FOUNDATION 42" DIAMETER	LIN FT.				36	36	t of		72
502600	OBSTRUCTION REMOVAL	LIN. FT.						# -		10
511300	SUBSTRUCTURE CONCRETE CLASS A.	CU. YDS.		290	5	13	13	285	4	610
512000	SUPERSTRUCTURE CONCRETE	CU. YDS.	27					1. 18		27
540060	REINFORCING BARS GRADE 60	POUND		40350	2840	5820	5820	39110	1490	95430
541100	STRUCTURAL STEEL FOR STEEL BRIDGES	POUND	66160		5040		*. *	5230		76430
543100	METAL PEDESTRIAN RAILING	LIN. FT.		589	84	12		569	77	1319
562000	BRIDGE JOINT STRIP SEAL (2")	LIN. FT.	27							27
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↑COST OF REINFORCING SHALL BE INCLUDED IN THE UNIT PRICE OF CONCRETE.

see list of items to be included in price (this sheet). *CONTINGENT PAY ITEM ONLY. PAYMENT TO BE MADE ONLY WHEN OBSTRUCTIONS (i.e. BOULDERS) ARE ENCOUNTERED IN DRILLED SHAFT.

STRUCTURAL STEEL FOR STEEL BRIDGES (ITEM NO. 541100

STEEL PLATE GIRDERS

- 1. FLANGES
- WEB PLATE
- LONGITUDINAL CONNECTION PLATES 4. LATERAL CONNECTION PLATES
 - SUBTOTAL = 46,960 LBS.

OTHER STRUCTURAL STEEL

- STRUCTURAL TUBING FOR LATERAL BRACING SYSTEM. (PEDESTRIAN CAGE)
- HAND RAILING
- EXPANDED METAL SOLE PLATES
- TENSION LINKAGES STAIRWAY FRAMING
- EMBEDDED CONNECTION PLATES

TECHNICAL SPECIAL PROVISIONS

MODIFYING SECTION 401 - PLANT MIX BITUMINOUS PAVEMENT (P.M.B.P.) (10/18/95)

SECTION 511-A - FOR REINFORCED CONCRETE FOR MINOR STRUCTURES (7/29/94)

MODIFYING SECTION 702 - TRAFFIC CONTROL DEVICES FOR CONSTRUCTION (6/14/96)

MODIFYING SECTION 801 - CONSTRUCTION STAKING BY THE CONTRACTOR (6/12/95)

MODIFYING SECTION 532 - PENETRATING WATER REPELLENT TREATMENT, DATED (6/28/94)

MODIFYING SECTION 708 - FOUNDATIONS FOR SIGNAL & LIGHTING INSTALLATIONS (9/25/95)

MODIFYING SECTION 502 - DRILLED SHAFT CONCRETE BEARING PILES (1/25/96)

MODIFYING SECTION 512 - SUPERSTRUCTURE CONCRETE, DATED (6/25/96)

MODIFYING SECTION 511 - CONCRETE STRUCTURES, DATED (5/6/94)

MODIFYING SECTION 618 - TRAFFIC CONTROL MANAGEMENT (9/03/96)

MODIFYING SECTION 540 - STEEL REINFORCING (9/25/95)

MODIFYING SECTION 667 - MANSONRY BLOCK WALL (9/25/95)

MODIFYING SECTION 709 - RIGID ELECTRICAL CONDUIT (9/25/95)

MODIFYING SECTION 704 - PAVEMENT MARKINGS (1/24/97)

MODIFYING SECTION 711 - WIRING (9/25/95)

MODIFYING SECTION 716 - LUMINAIRES (9/25/95)

SUBTOTAL = 29.470 LBS.

INCIDENTAL ITEMS

- BRIDGE DEDICATION PLATE PREFORMED BITUMINOUS JOINT FILLER (AASHTO M213)
- ELASTOMERIC BEARING PADS SPECIAL SURFACE FINISH FOR NEW CONCRETE SURFACES
- 5. DRILL AND EPOXY PEDESTRIAN RAIL ANCHOR BOLTS, (INCLUDING MATERIALS)
- 6. JUNCTION BOXES FOR LIGHTING
- WIRING FOR LIGHTING
- PENETRATING WATER REPELLANT TREATMENT. 9. NON-SLIP NOSING FOR STAIR TREADS.
- 10. TEMPORARY CHAIN LINK FENCE
- 11. EVAZOTE FILLER MATERIAL
- 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.

DESIGN DATA

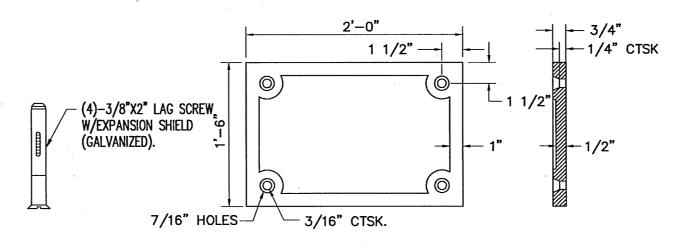
DESIGN IS IN ACCORDANCE WITH AASHTO SPECIFICATIONS 1992 EDITION AND CURRENT INTERIMS.

DESIGN STRESSES: STRUCTURAL STEEL-AASHTO M-270(GR 50), FS=27,000. PSI REINFORCED CONCRETE:

SUPERSTRUCTURE: F'C=4,000. PSI AT 28 DAYS FC=1.600. PSI FS=24.000. PSI SUBSTRUCTURE: F'C=4.000. PSI AT 28 DAYS FC=1,200. PSI FS=24,000. PSI GRADE 60

LIVE LOAD: 85 P.S.F. HORIZONTAL EARTH PRESSURE: 30 LBS./CU. FT. EQUIVALENT FLUID PRESSURE. WIND VELOCITY: 80 MPH

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*	DRI	LLED S	HAFT IN	FORMATI	ON TABLE	
	LOCATION	NO. REQ'D.	PILE DIAMETER	ESTIMATED LENGTH	ESTIMATED PENETRATION ELEV.	MAXIMUM COMPUTED SHAFT LOAD
	NORTH STAIRWAY	2	30	36	5284	16k
	PIER #1	1	42	36	5283	272k
	PIER #2	1	42	36	5283	272k
	SOUTH STAIRWAY	1	30	36	5284	16k



BRIDGE DEDICATION PLATE DETAILS

PROVIDE 3/4" RECESSED BLOCKOUT IN CLOSURE WALL AT NORTH RAMP ENTRANCE AS DIRECTED BY THE PROJECT MANAGER

BRIDGE NO. TPE-4078(4)ST-GA-HM-4078(200) CN 9773

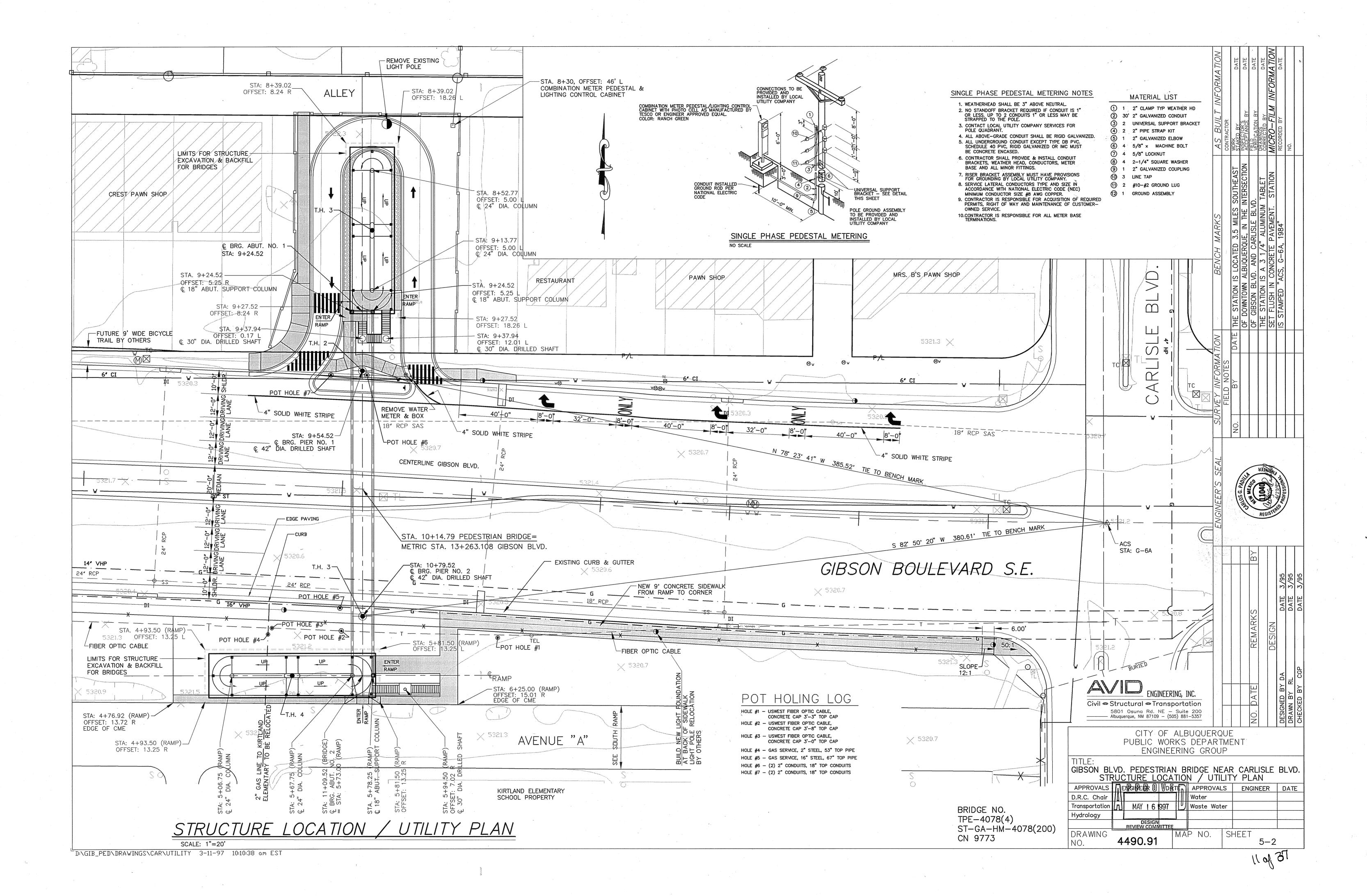
Civil Structural Transportation 5801 Osuna Rd. NE — Suite 200 - Albuquerque, NM 87109 — (505) 881—5357

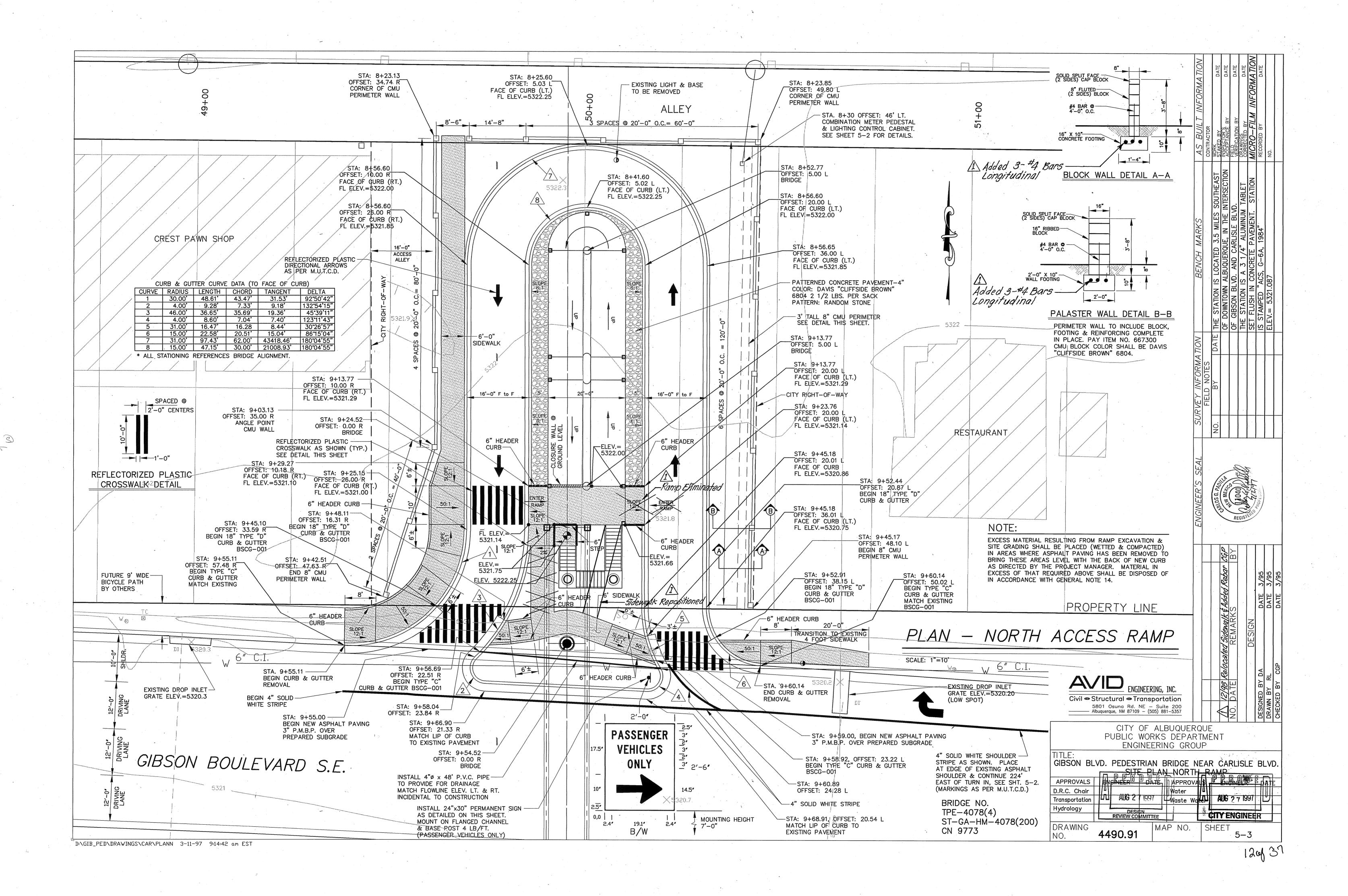
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP

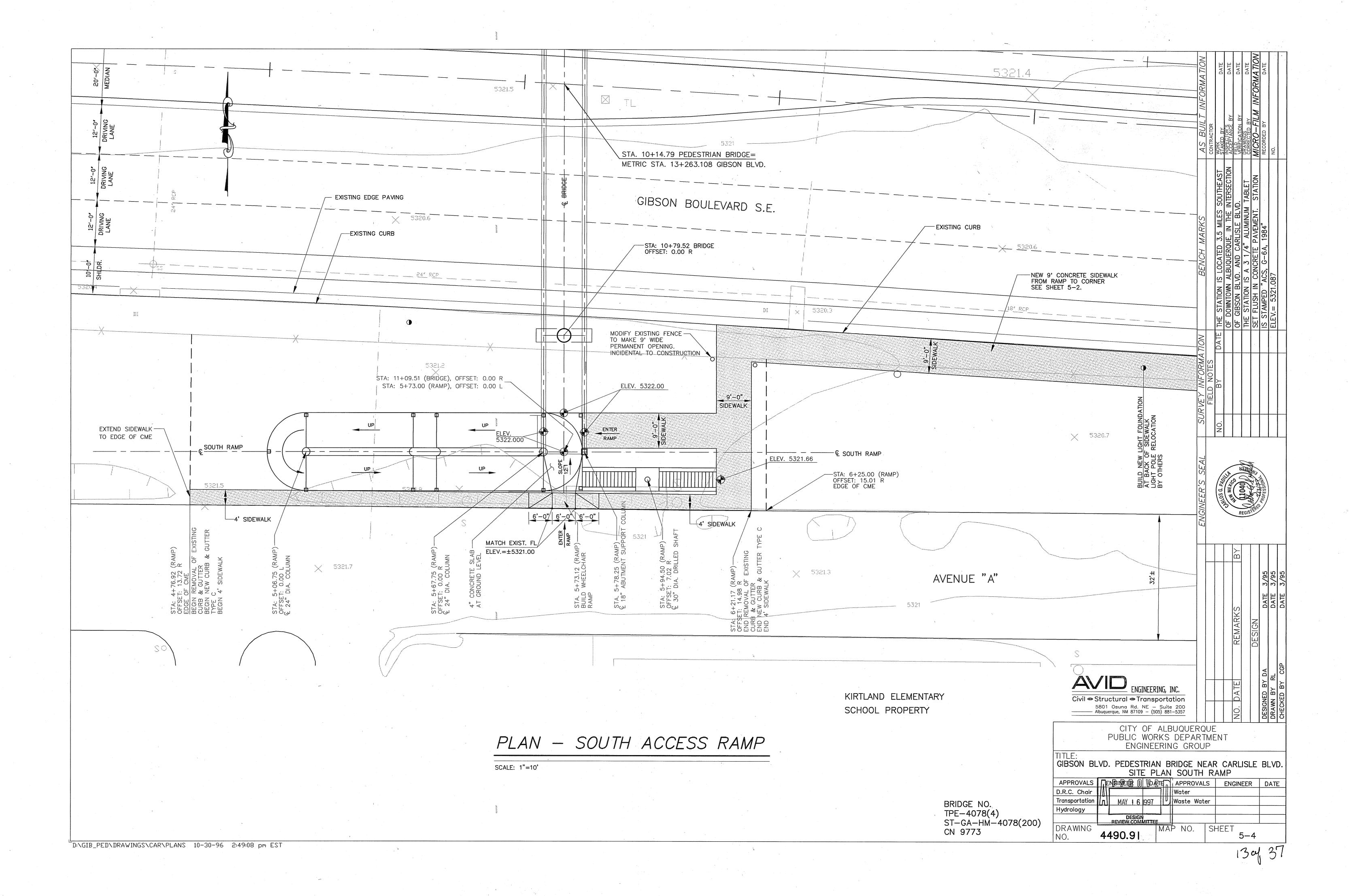
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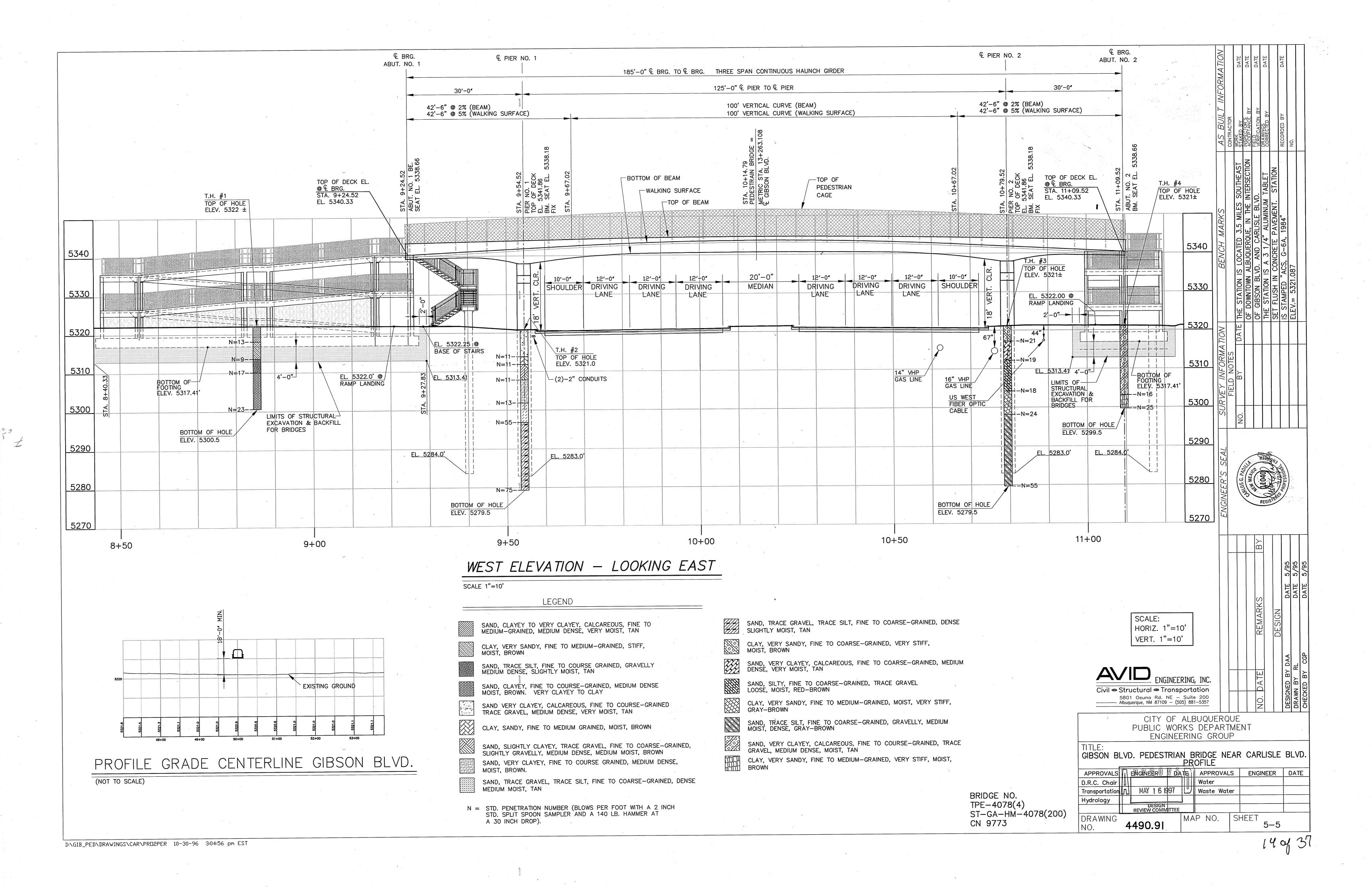
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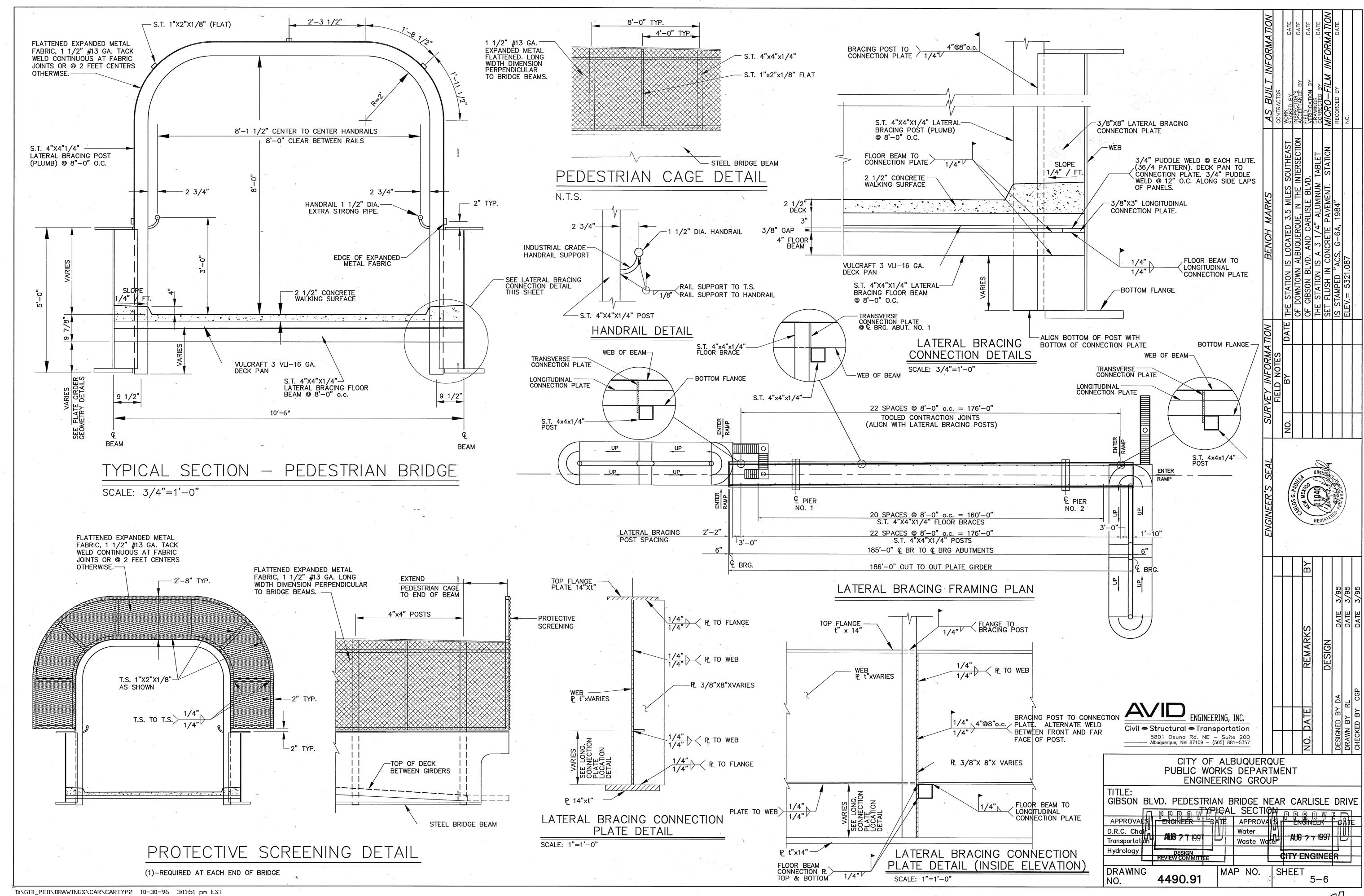
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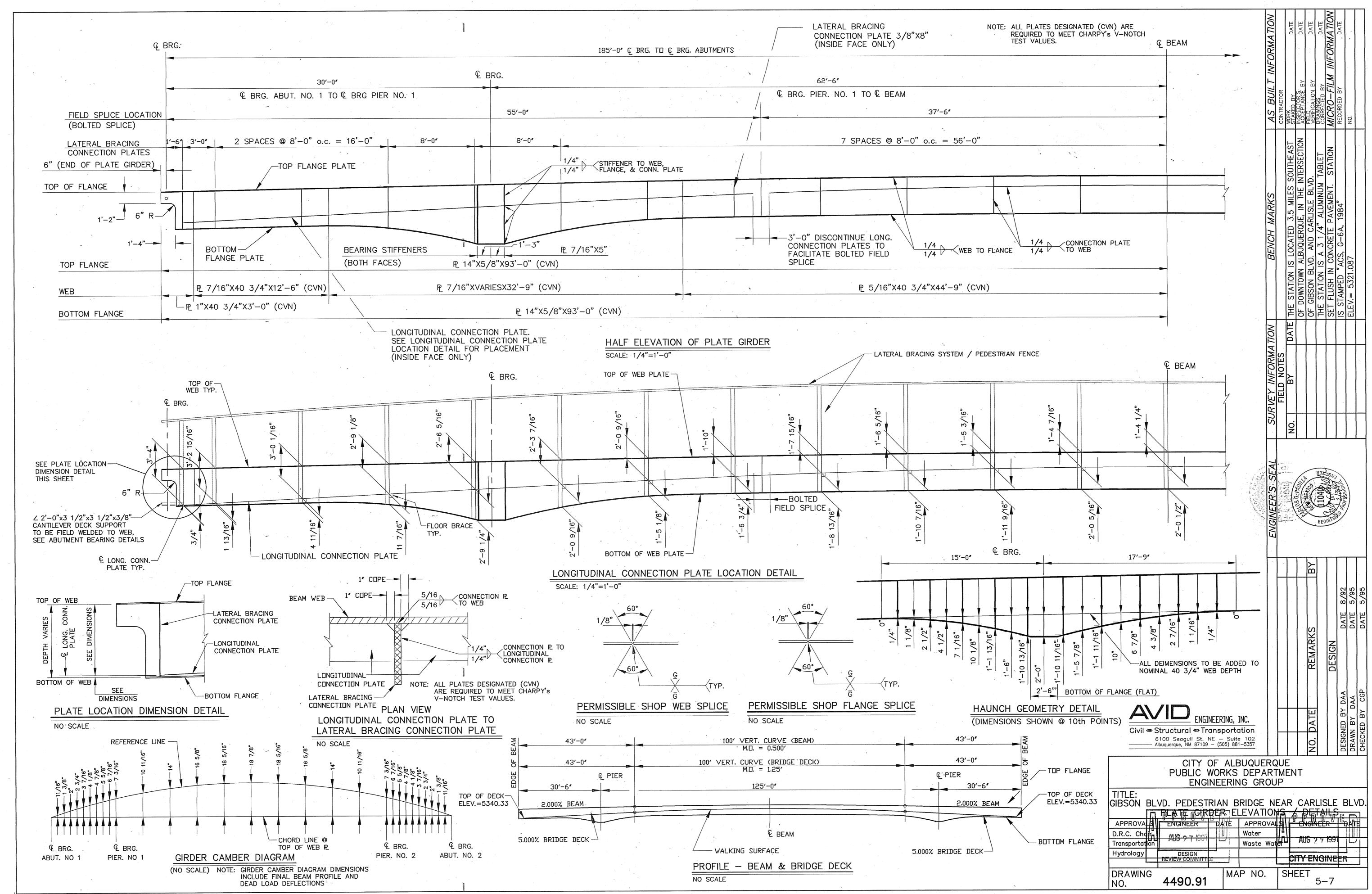




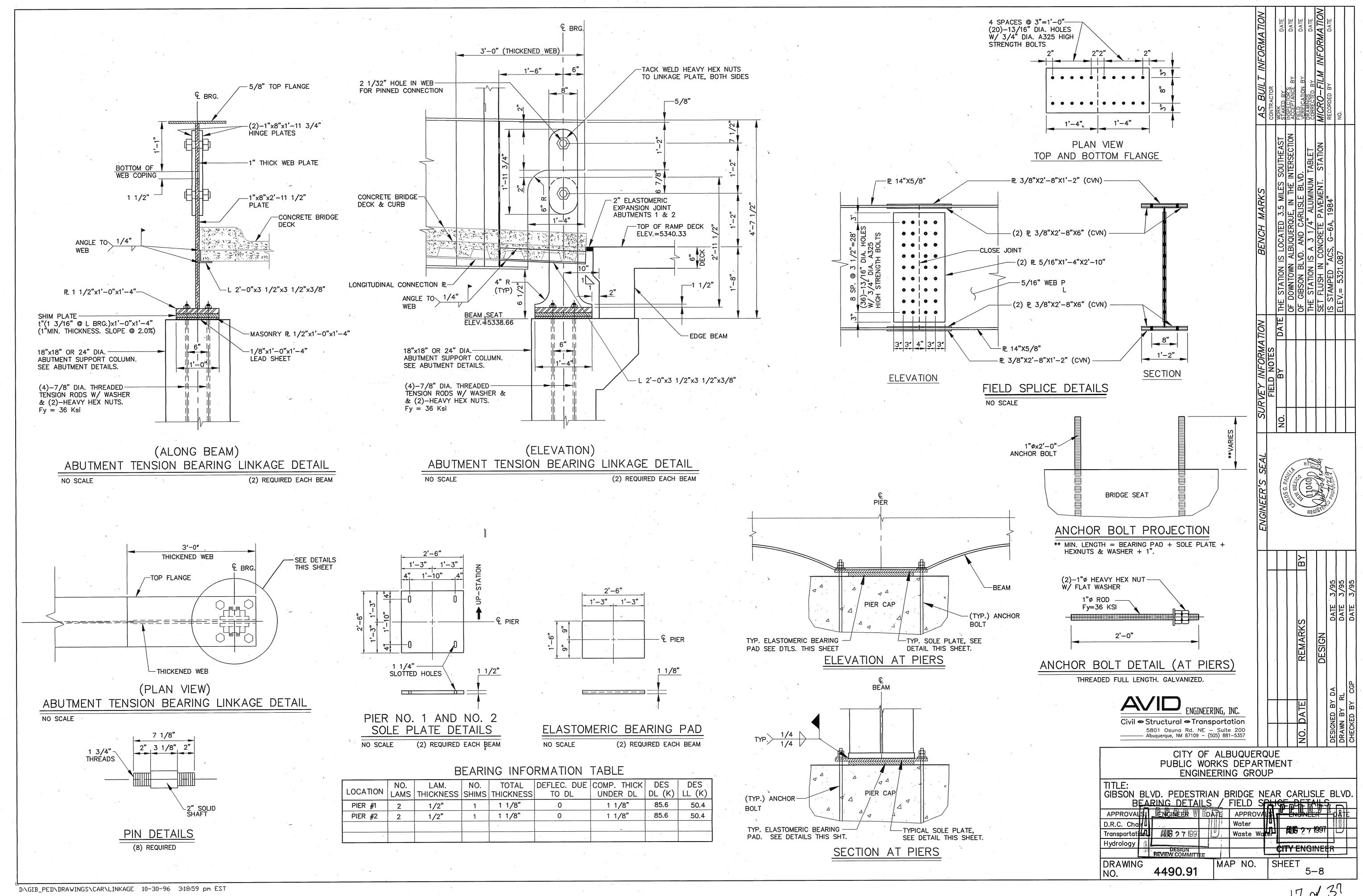




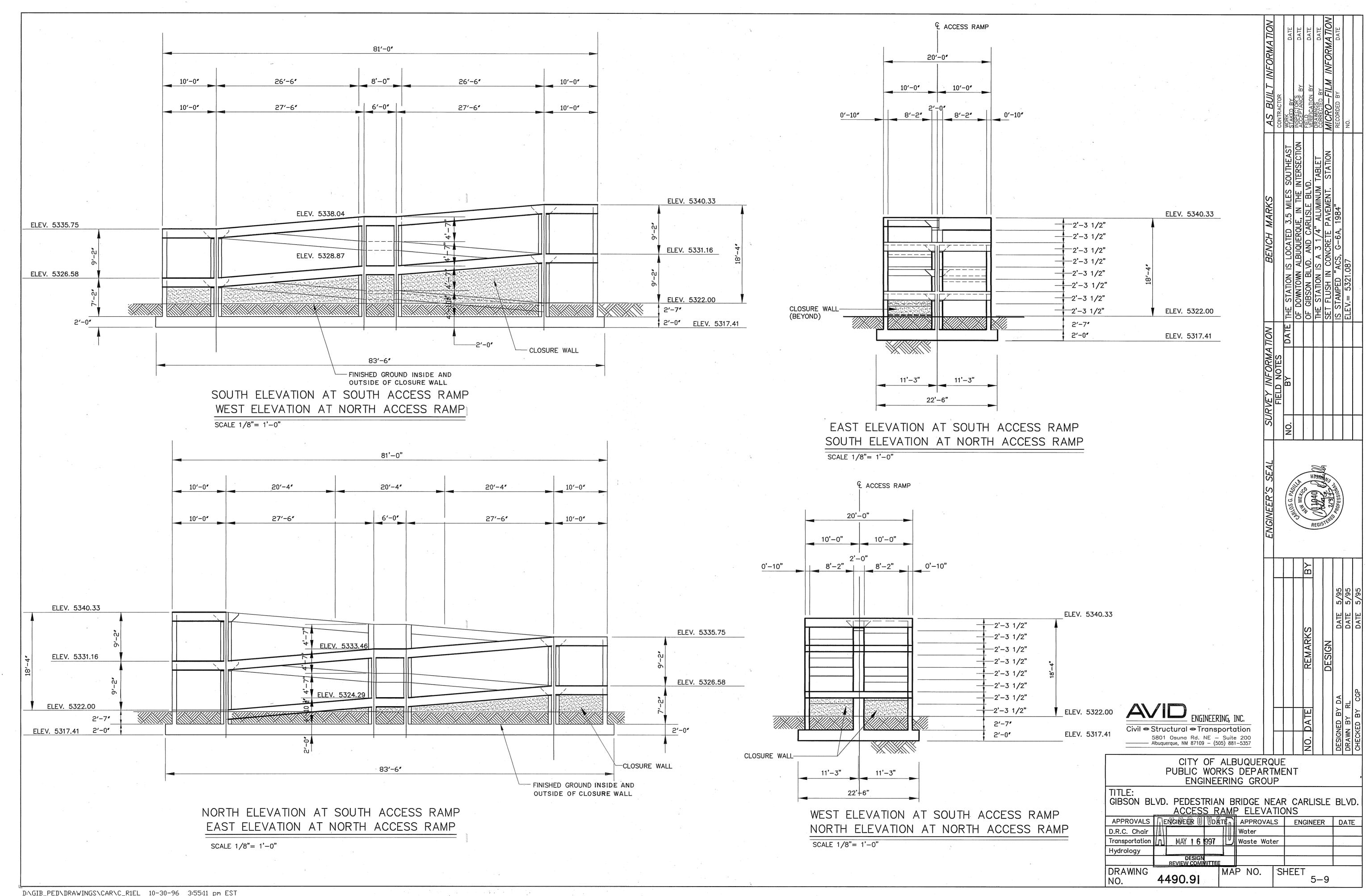


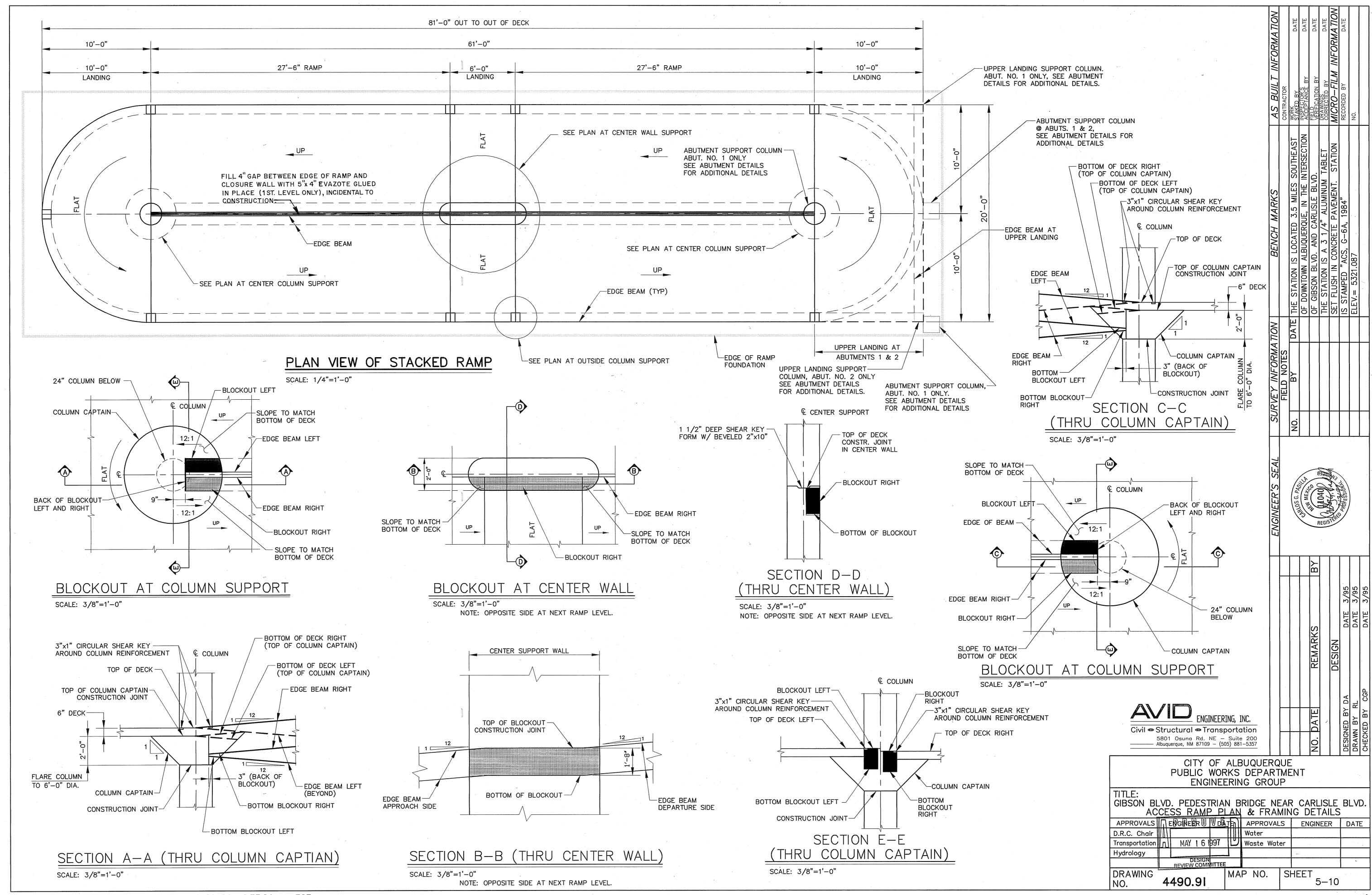


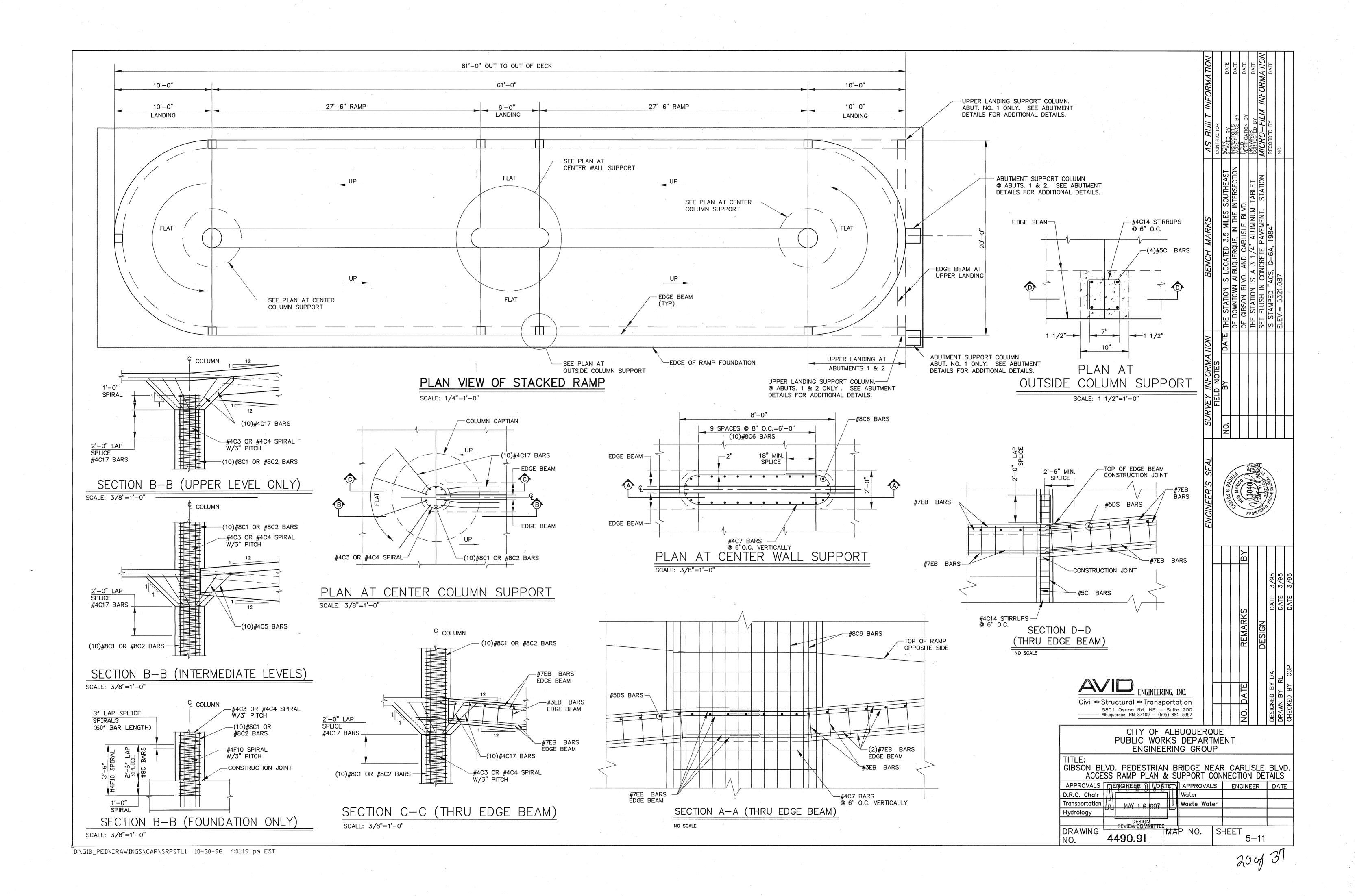
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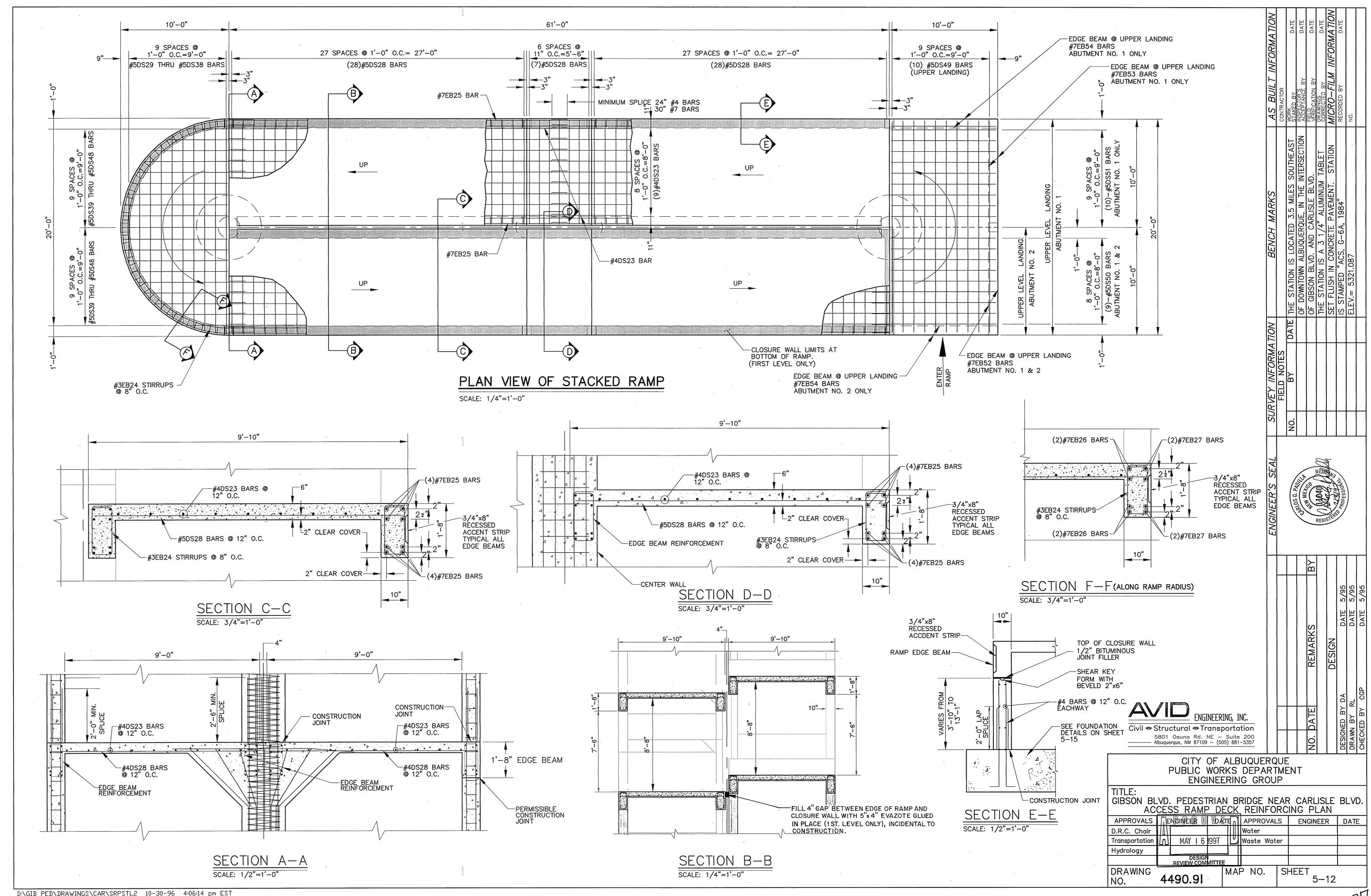


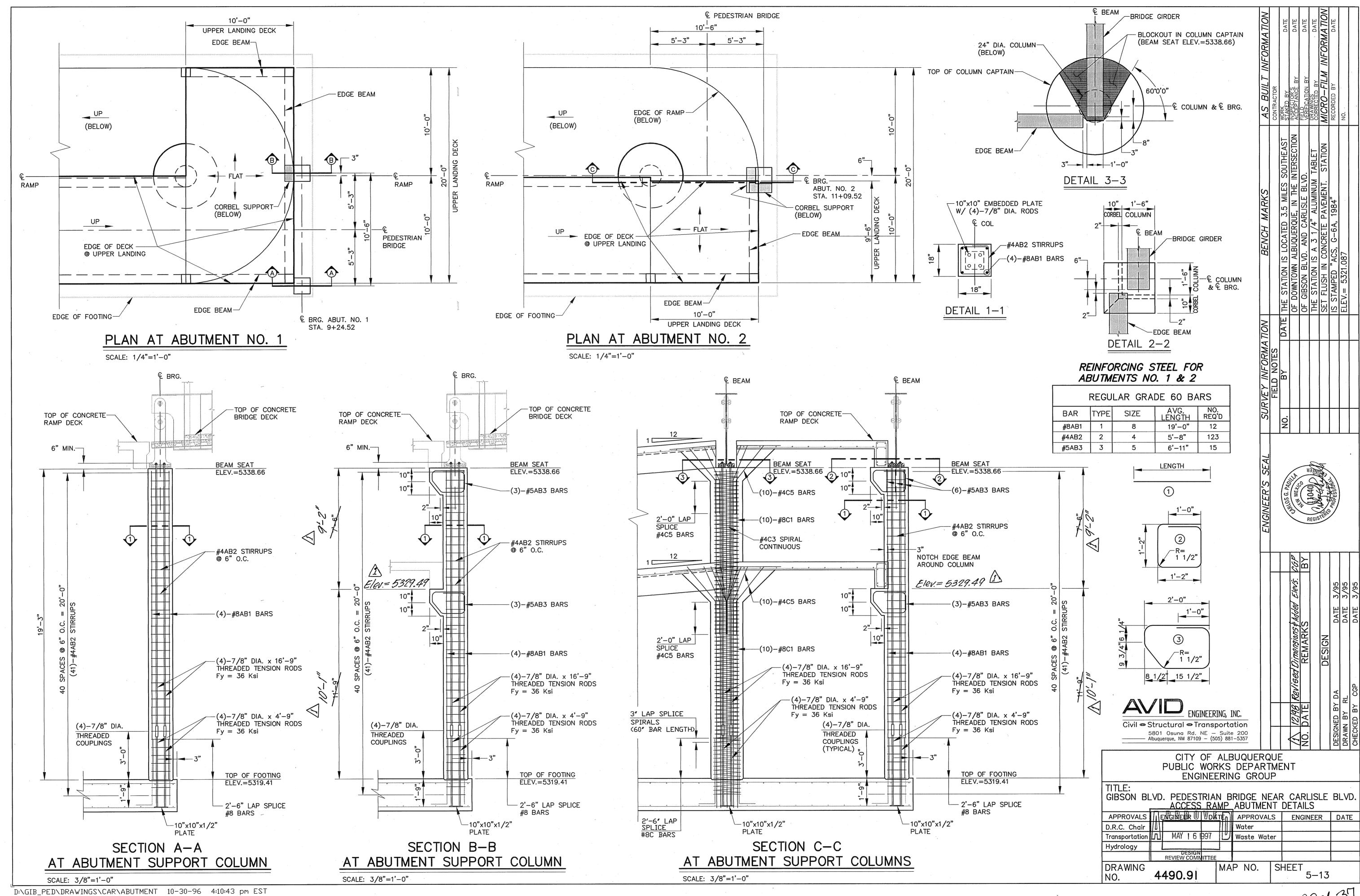
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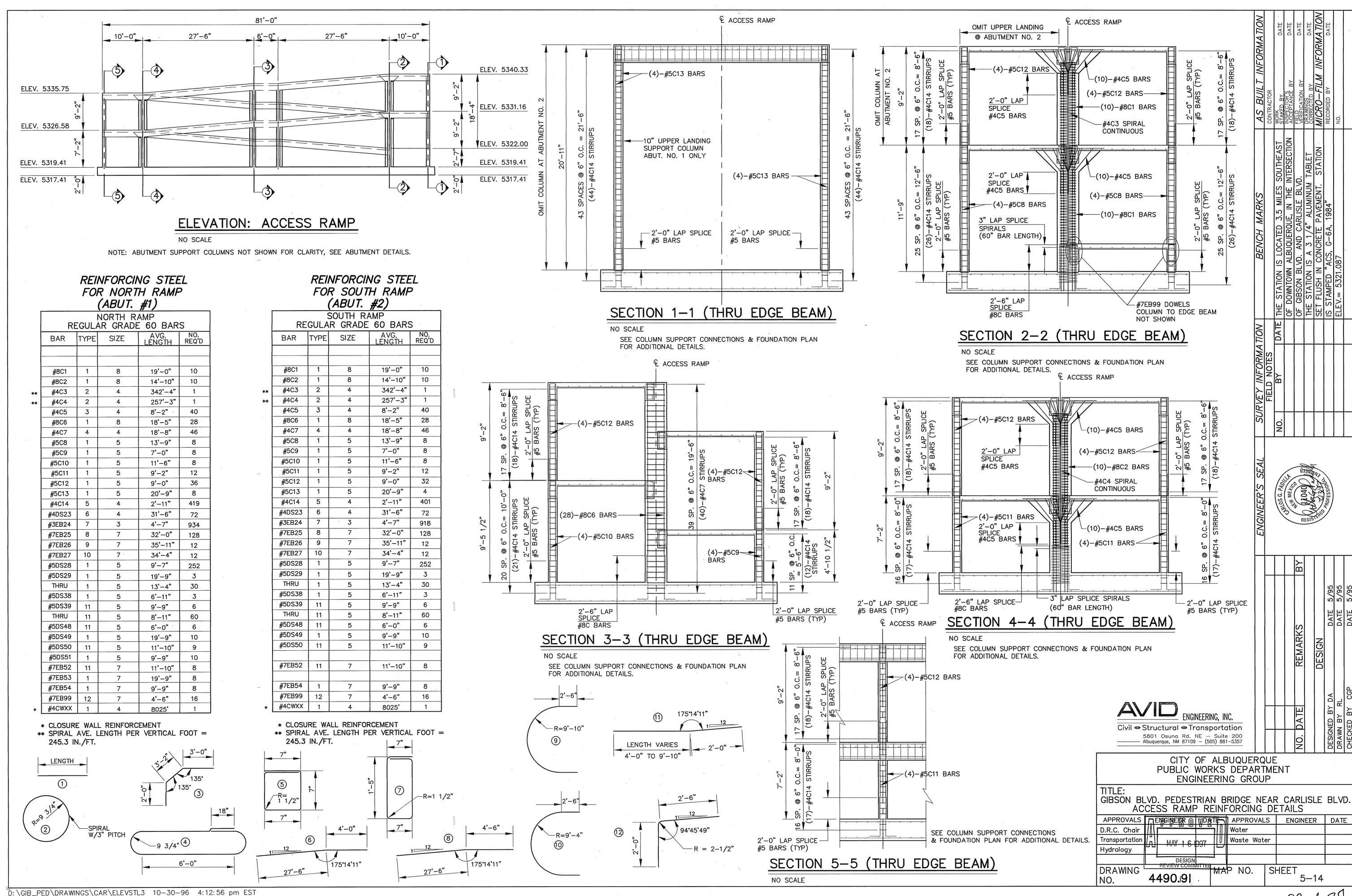


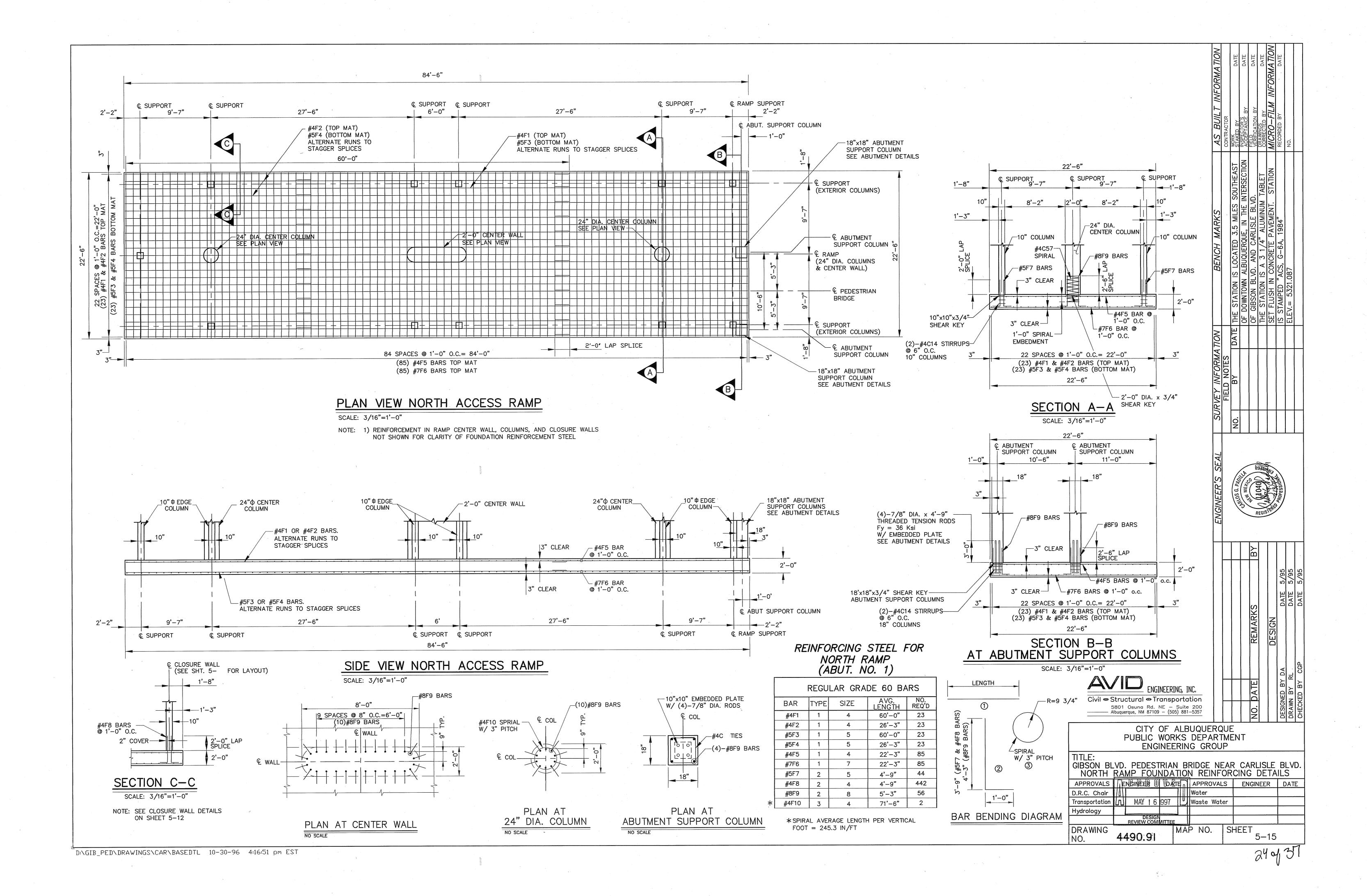


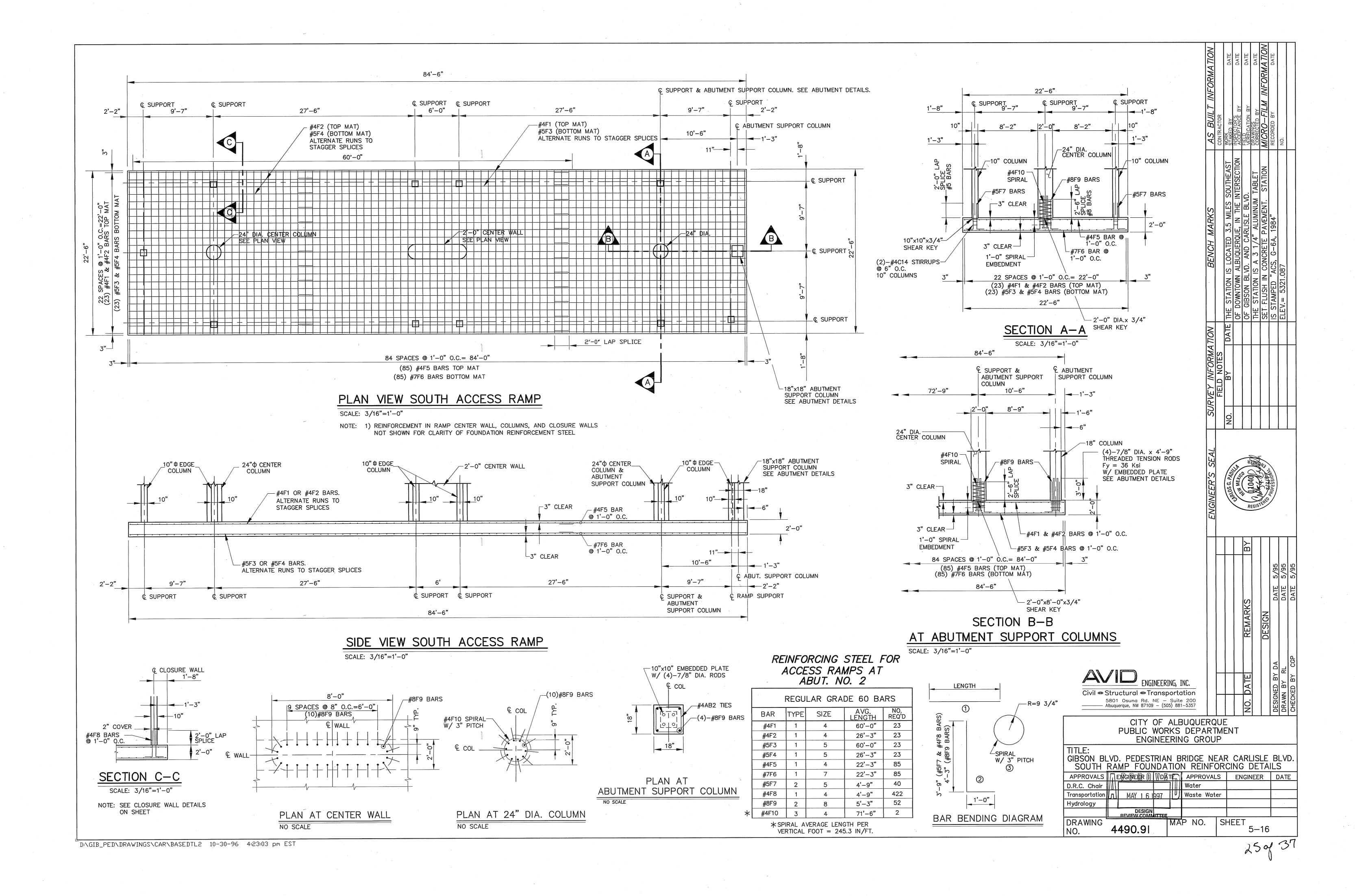


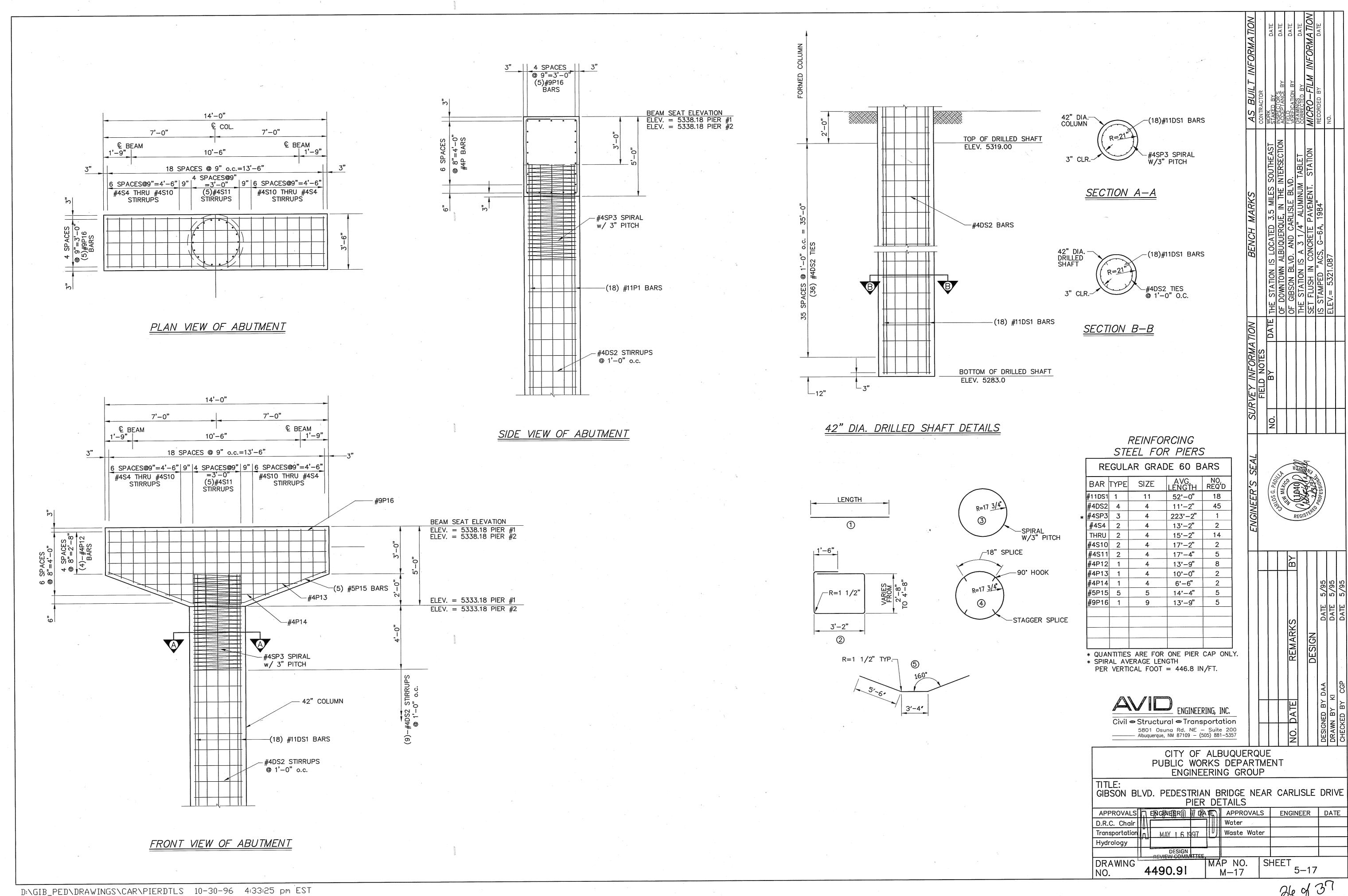


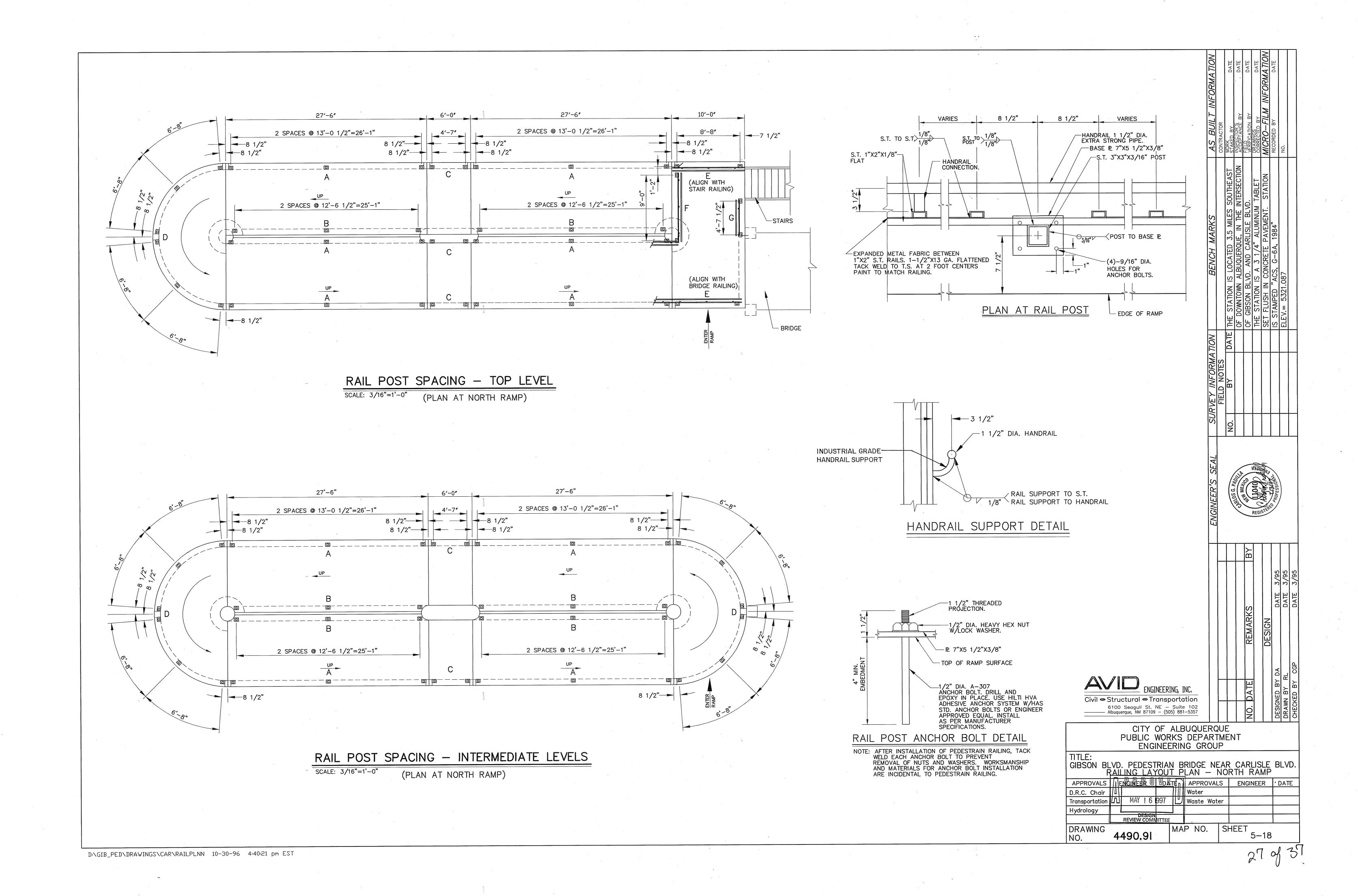


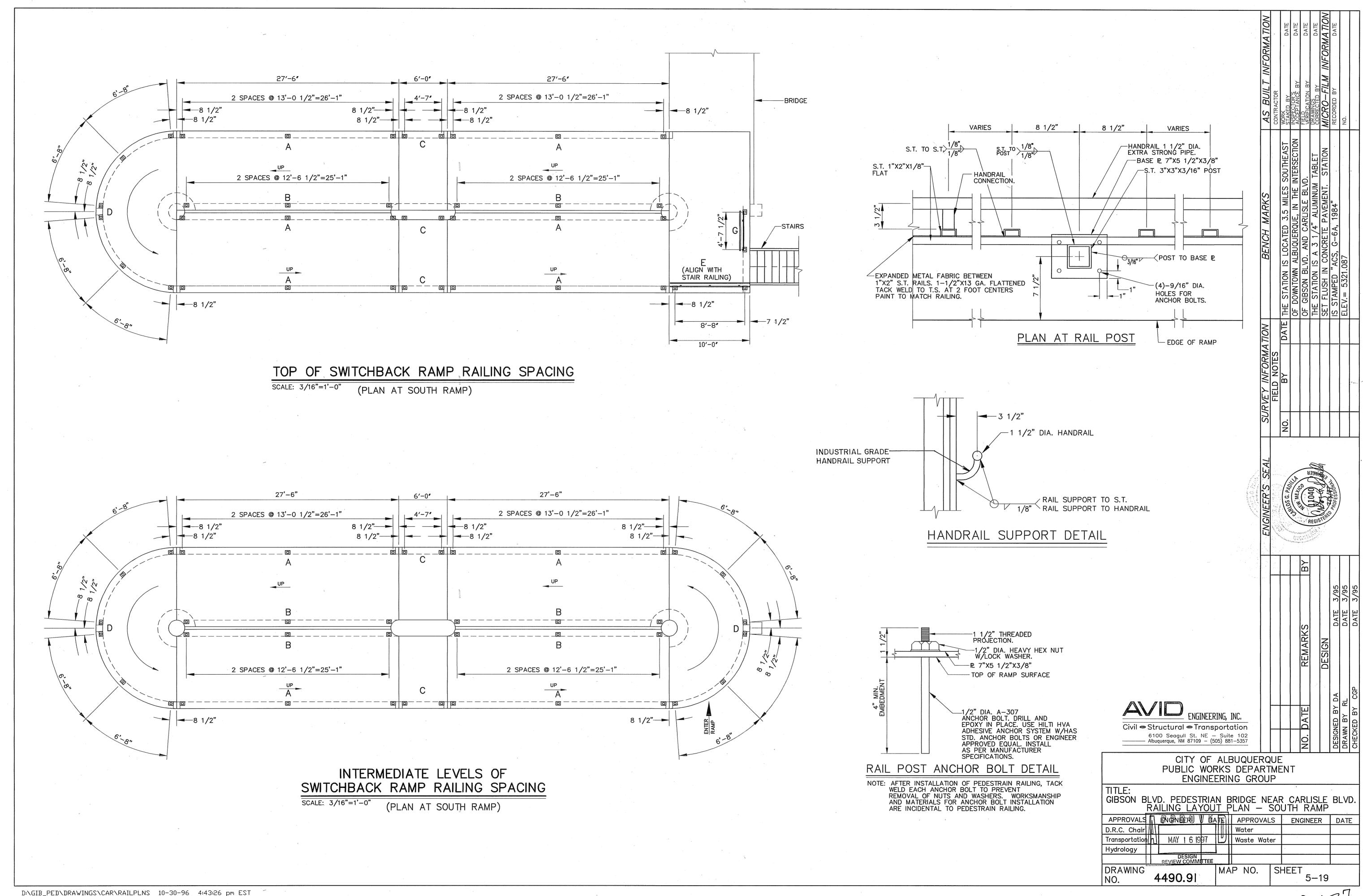


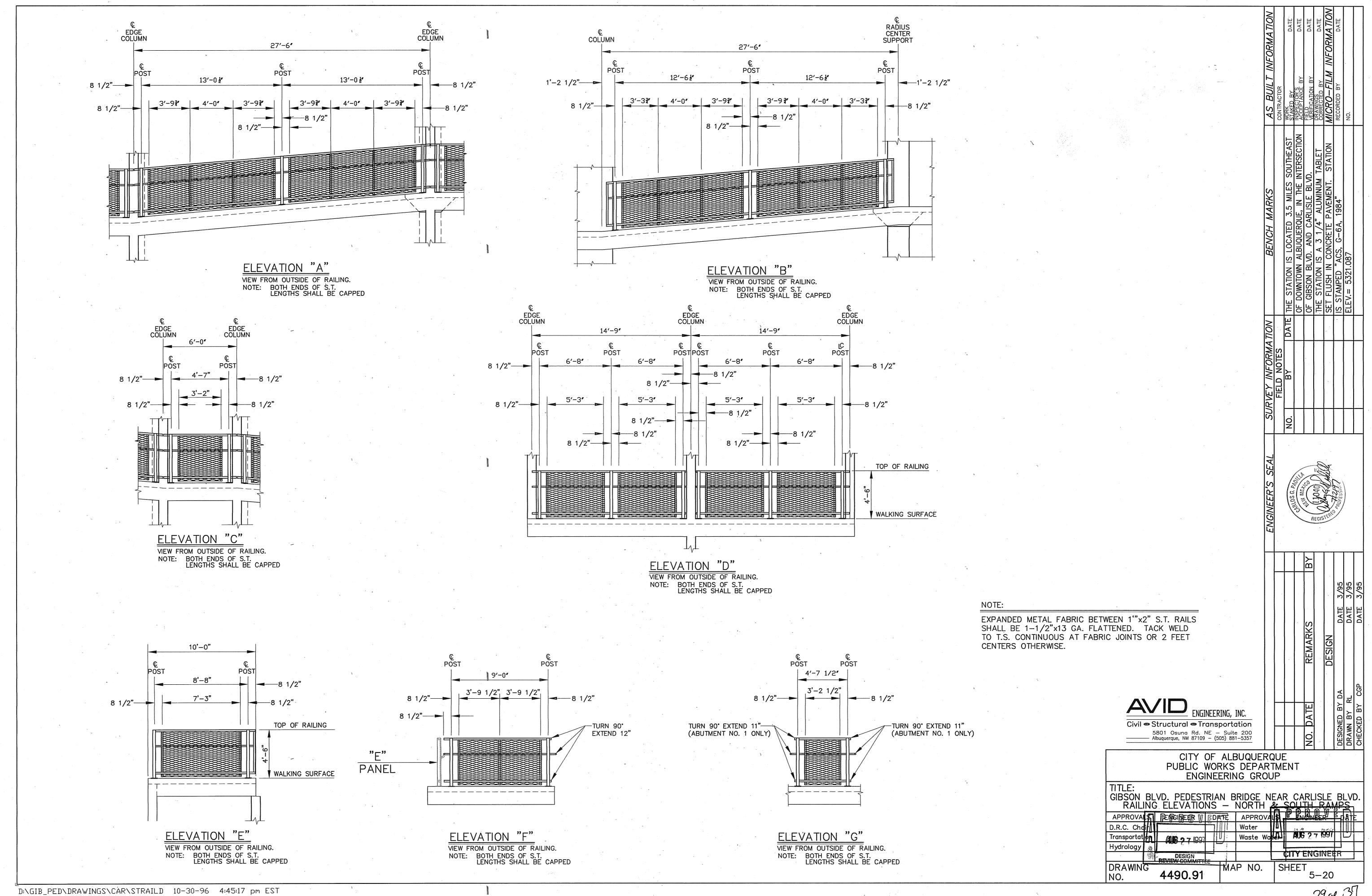


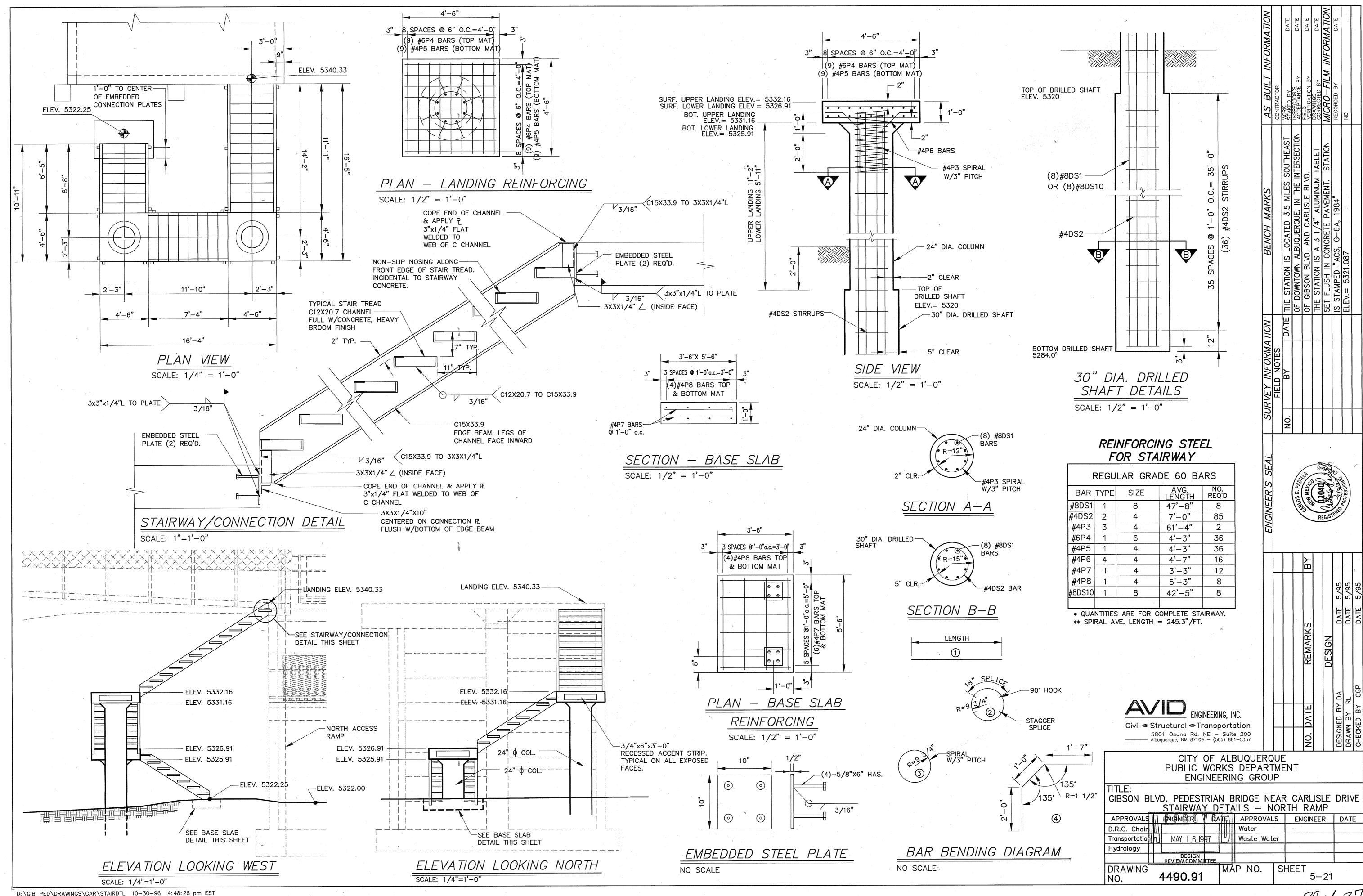


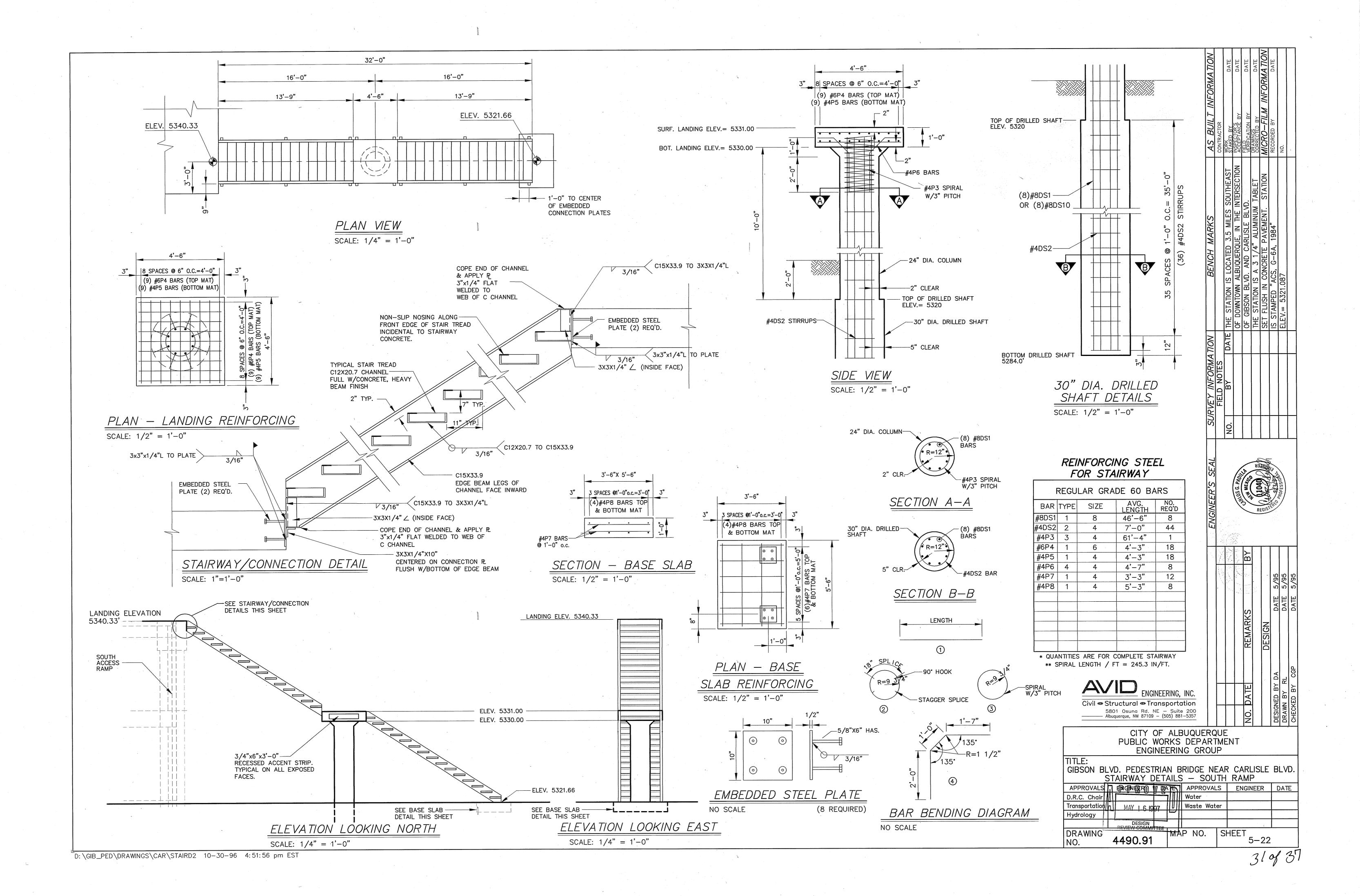


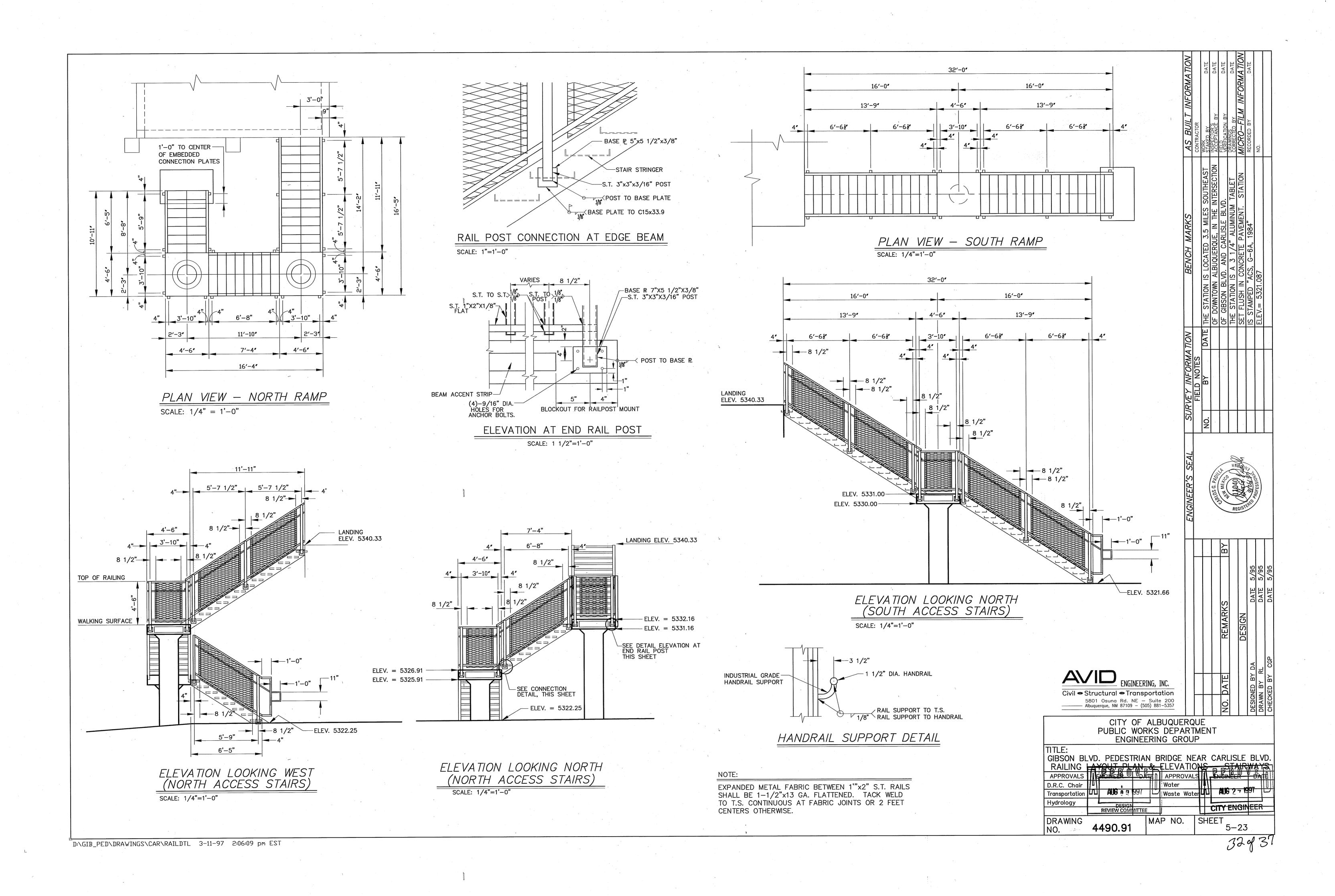


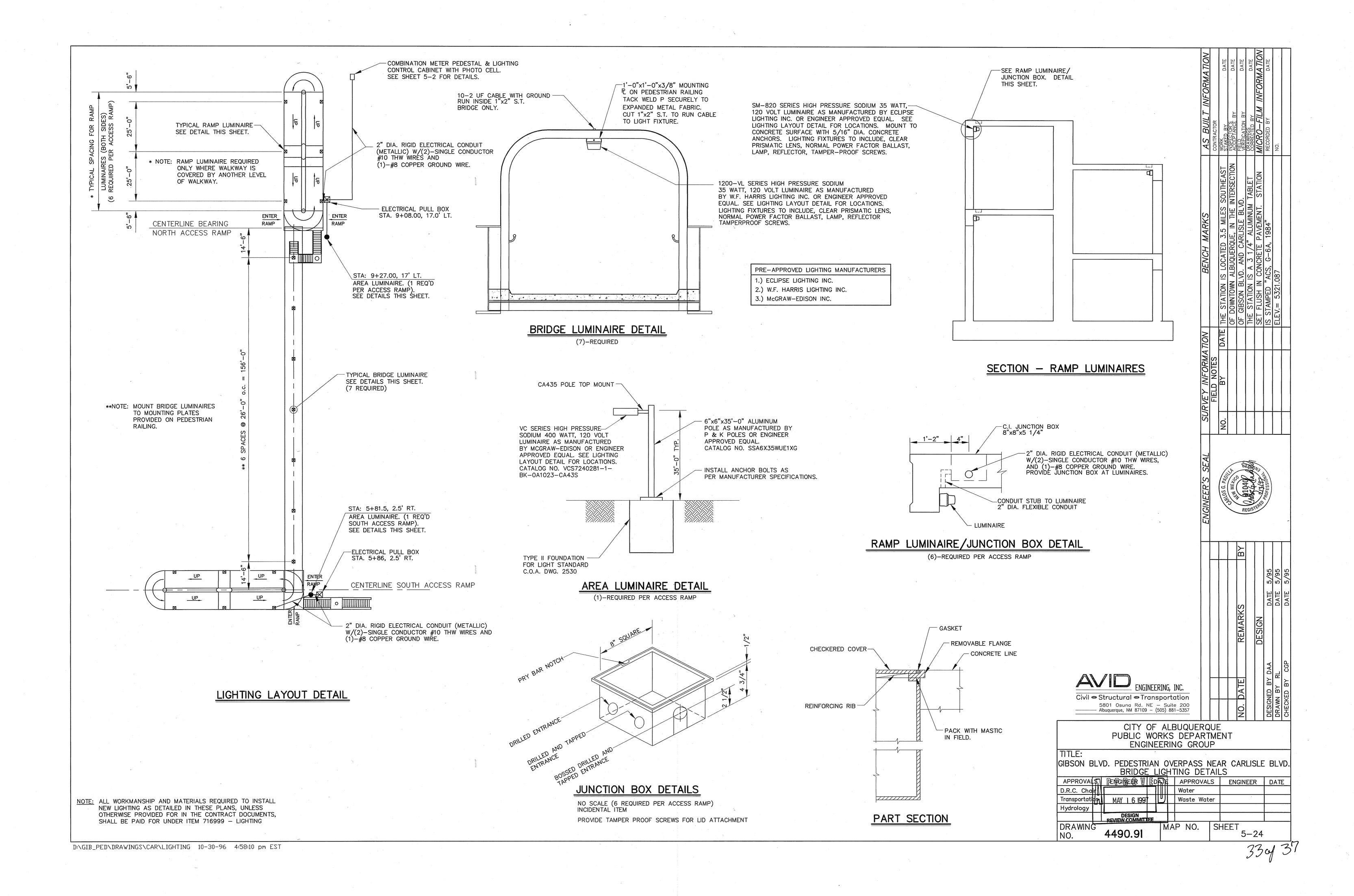


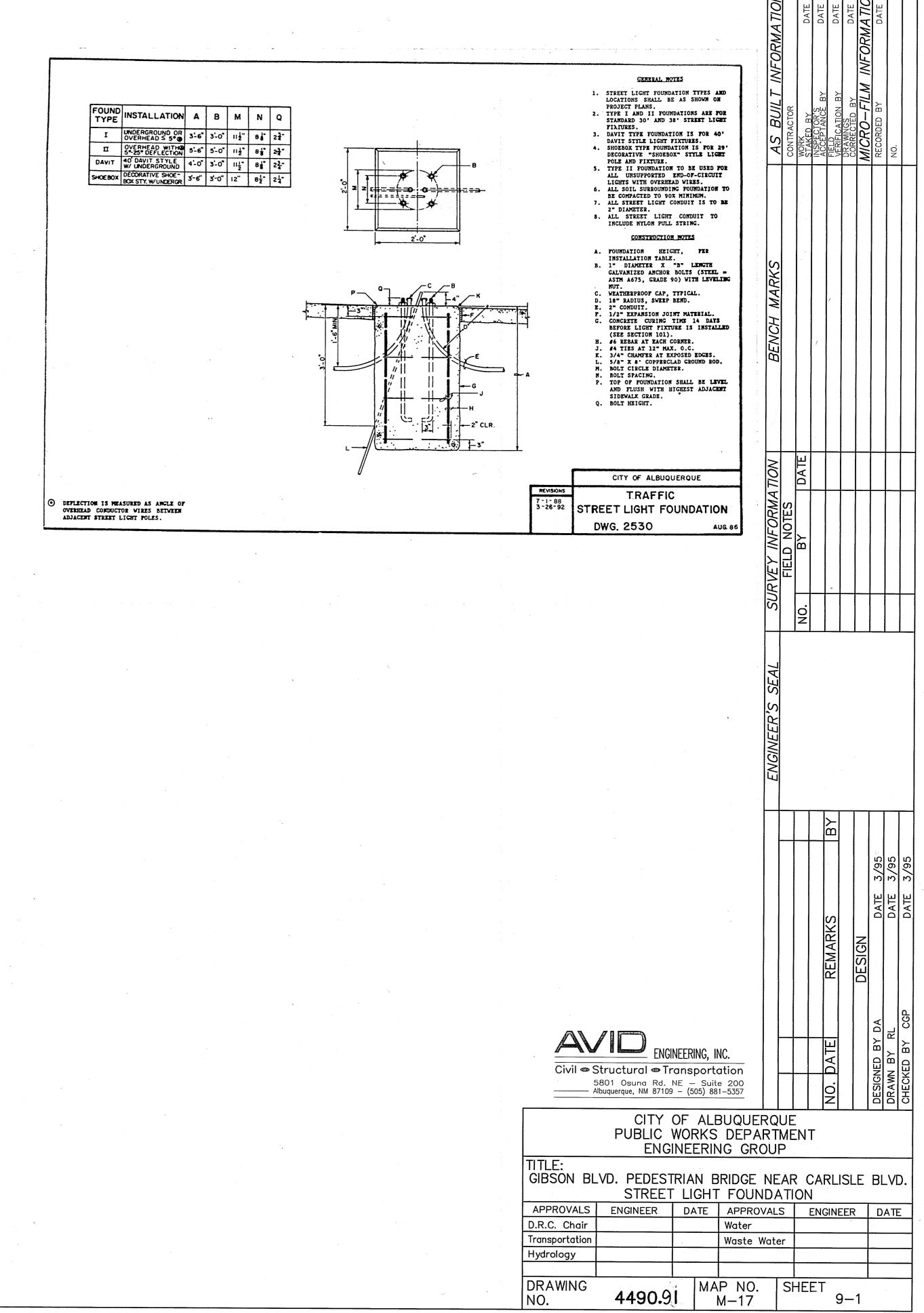


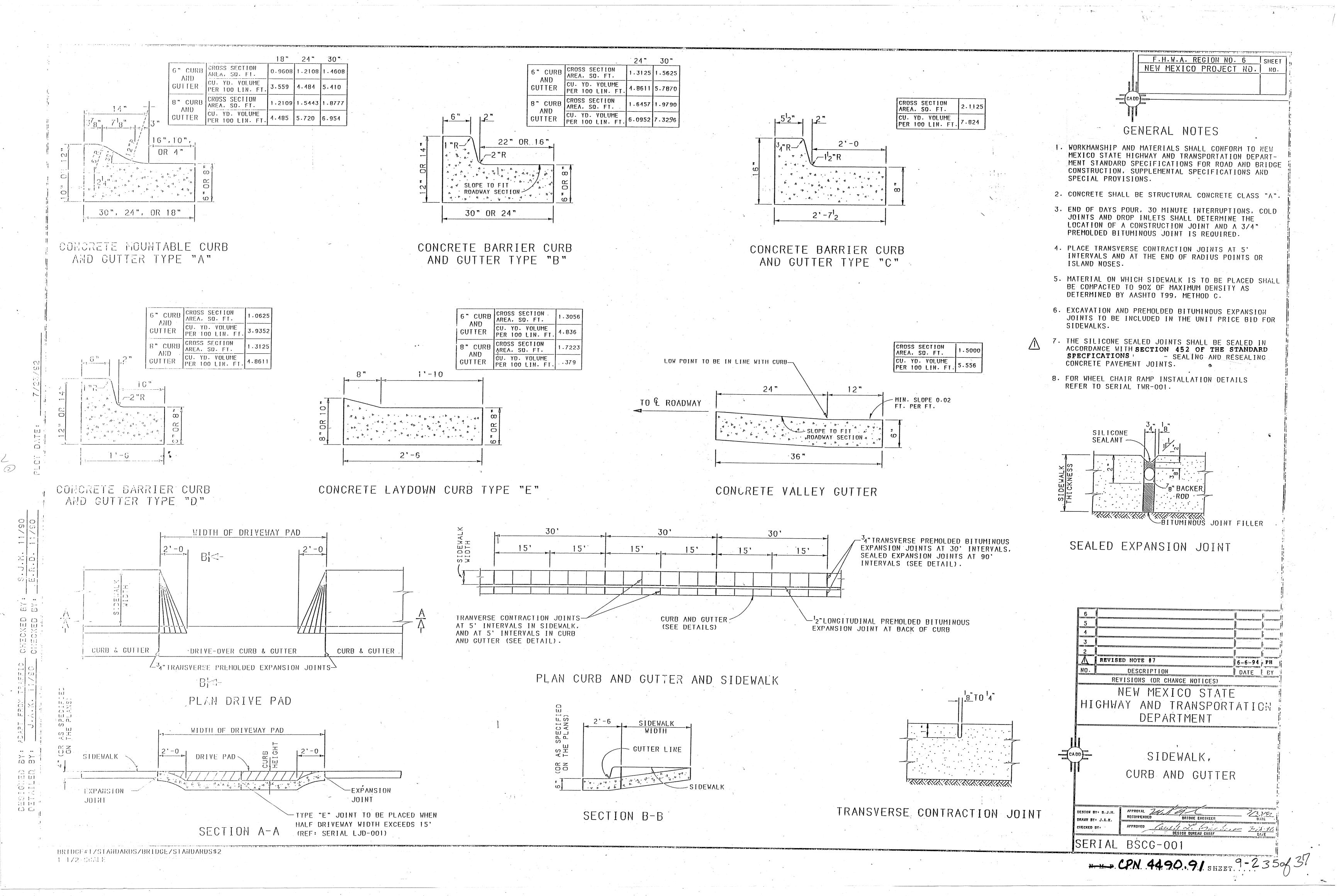












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		CONCRETE	E BRIDGE	STEEL BRIDGE		WATSON-BOWMAN	D.S. BROWN	STRUCTURAL	R.J.WATSON	JOINT	* "A"
SKE	W	SEVERE	MODERATE	SEVERE	MODERATE	AND ACME	CO., INC.	ACCESSORIES		MOVEMENT	(DIMENSION 0
		CLIMATE	CLIMATE	CLIMATE	CLIMATE			INC.			$ MID TEMP T_0 \rangle$
	· · · · · · · · · · · · · · · · · · ·	(-10°TO 120°F)	(20°T0 120°F)	(-30°T0 120°F)	(0°TO 120°F)	"STRIP SEAL"	"STEELFLEX"	"ONFLEX"	"STRIP SEAL"		1 .
	e .	$T_0 = 55$ °F	$T_0 = 70^{\circ}F$	$T_0 = 45^{\circ}F$	$T_0 = 60$ °F	MODEL NO.	MODEL NO.	MODEL NO.	MODEL NO.	(IN.)	(IN.)
0° to	15°	0-427	0-556	0-342	0-427	SE-400	L2-400	40SEQ	RJ-400	0 TO 4	2
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		1				in the state of th	garant in a spiritual regards of behaviors		-	·	
15° to	30°	0-442	0-575	0-354	0-442	SE-400	L2-400	40SEQ	RJ-400	0 TO 4	2
				: : : : : : : : : : : : : : : : : : :			5				
								-			
30° to	45°	0-493	0-642	0-395	0-493	SE-400	L2-400	40SEQ	RJ-400	0 TO 4	2
·								· · · · · · · · · · · · · · · · · · ·			
								* MAXIMUM	"A" IS EQUAL	TO TOTAL .	JOINT MOVEMENT
	4	· •									

TABLE OF ALLOWABLE MOVEMENT LENGTHS AND ACCEPTABLE JOINT SEALS

REQUIRED DRAWINGS

BJS-001 GENERAL DATA

TYPE "A" INSTALLATION

TYPE "B" INSTALLATION

GENERAL NOTES

- 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.
- 2. JOINT SEAL SIZES ARE BASED ON AN INSTALLATION TEMPERATURE OF T_O (DEGREES F, MIDPOINT TEMPERATURE) AND JOINT MOVEMENTS FOR A RANGE OF TEMPERATURES AS NOTED IN THE TABLE ON THIS SHEET. FOR INSTALLATION TEMPERATURES BELOW TO INCREASE DIMENSION "A" BY THE AMOUNT SHOWN BELOW. FOR INSTALLATION TEMPERATURES ABOVE TO DECREASE DIMENSION "A" BY THE AMOUNT SHOWN BELOW.

FOR CONCRETE BRIDGES:

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

FOR STEEL BRIDGES:

CHANGE IN "A" = 0.000078 x L x cos θ x Δ T

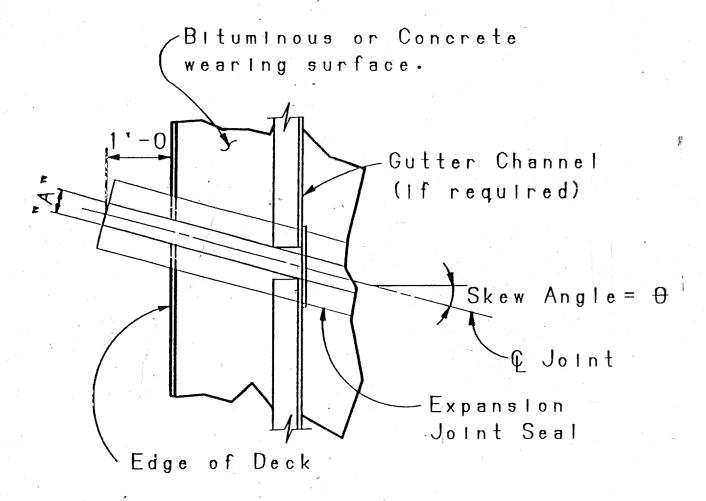
CHANGE IN "A" IS IN INCHES.

L = MOVEMENT LENGTH IN FEET (SEE SUPERSTRUCTURE DETAILS) Θ = SKEW ANGLE ΔT = CHANGE IN TEMPERATURE FROM T_0 IN DEGREES F.

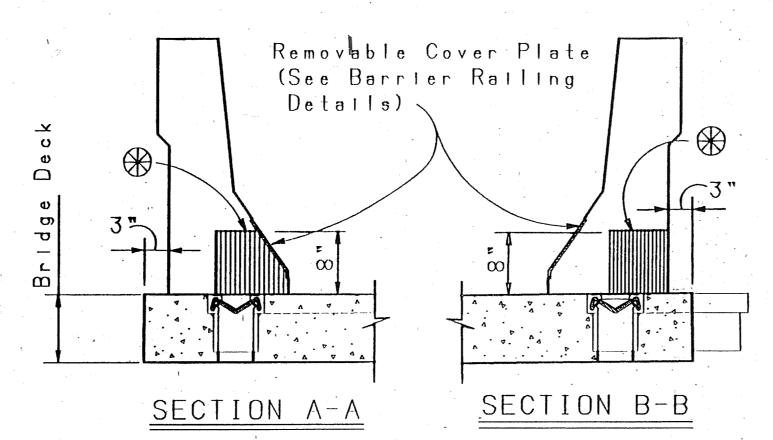
EXAMPLE: (CONCRETE BRIDGE IN SEVERE CLIMATE TO =55°F) FOR T = 73° F, L = 100 FT, θ = 28° CONCRETE BRIDGE, $\triangle T = 73^{\circ} - 55^{\circ} = 18^{\circ}F$

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

- 3. UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR HAS THE OPTION OF INSTALLING EITHER TYPE "A" OR TYPE "B" JOINTS.
- 4. UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL STRUCTURES SHALL BE CONSIDERED TO BE SUBJECTED TO A SEVERE CLIMATE.
- 5. ALL SURFACES OF STEEL COMPONENTS OF THE SEAL, EXCEPT THOSE WITH THE SPECIFICATIONS. IN LIEU OF PAINTING, ALL COMPONENTS OF THE SEAL MAY BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH AASHTO SPECIFICATION M-111.

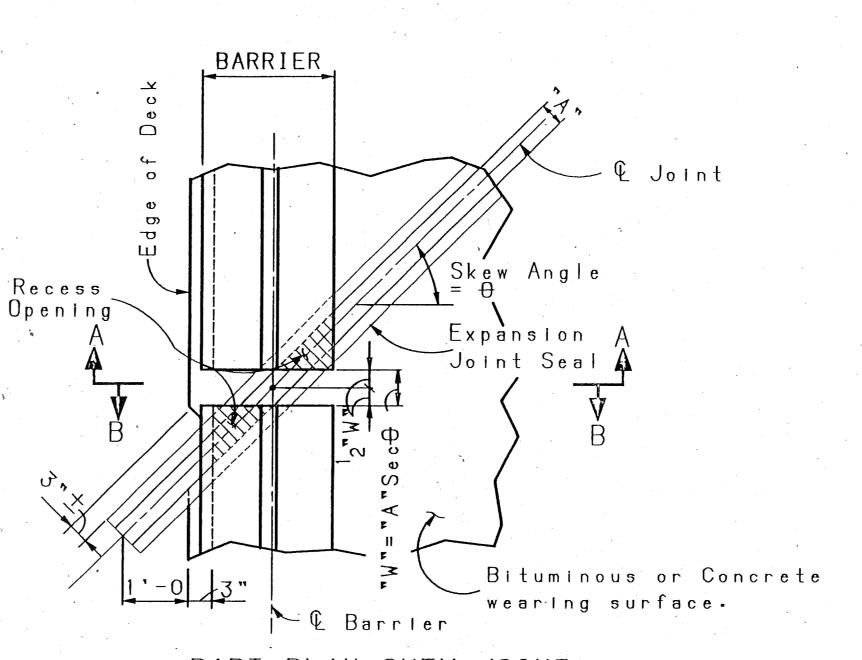


PART PLAN - SKEWED JOINT WITH METAL RAILING

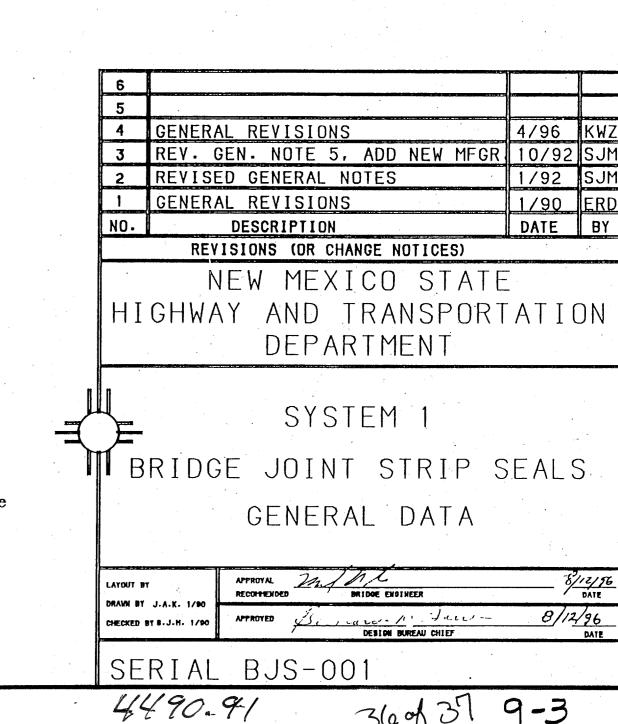


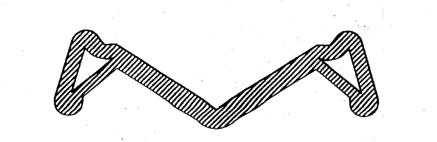
SIMILAR DETAIL FOR CURB AND SIDEWALK.

Recess in base of wall barrier.

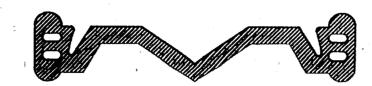


PART PLAN-SKEW JOINT WITH CONCRETE BARRIER RAILING

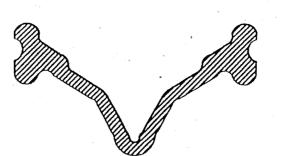




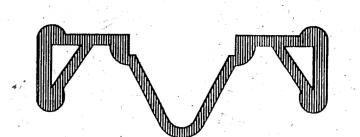
STRIP SEAL TYPE (SE)



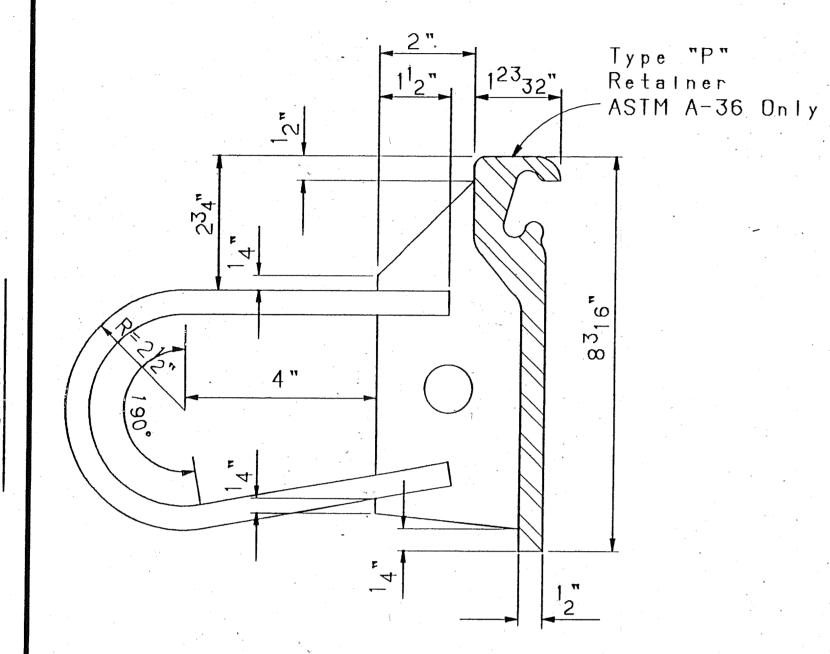
STEELFLEX SERIES SEAL "L2"



ONFLEX 40SEQ SEAL

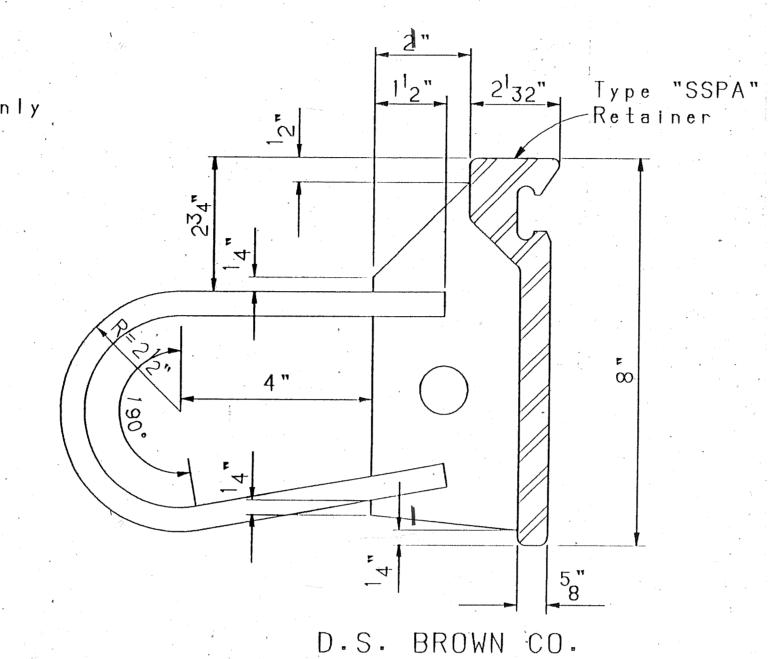


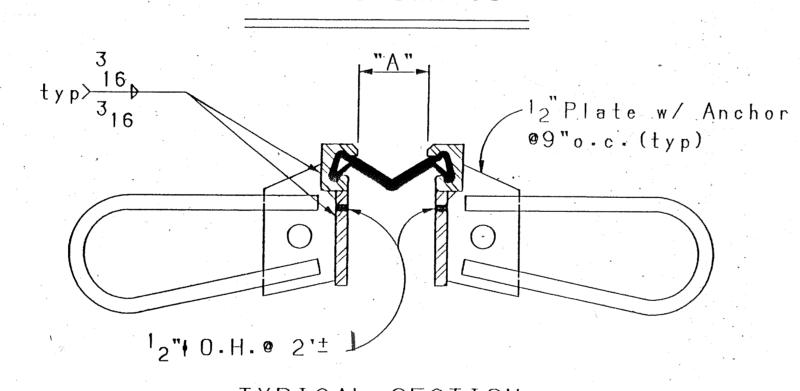
RJ SERIES STRIP SEAL

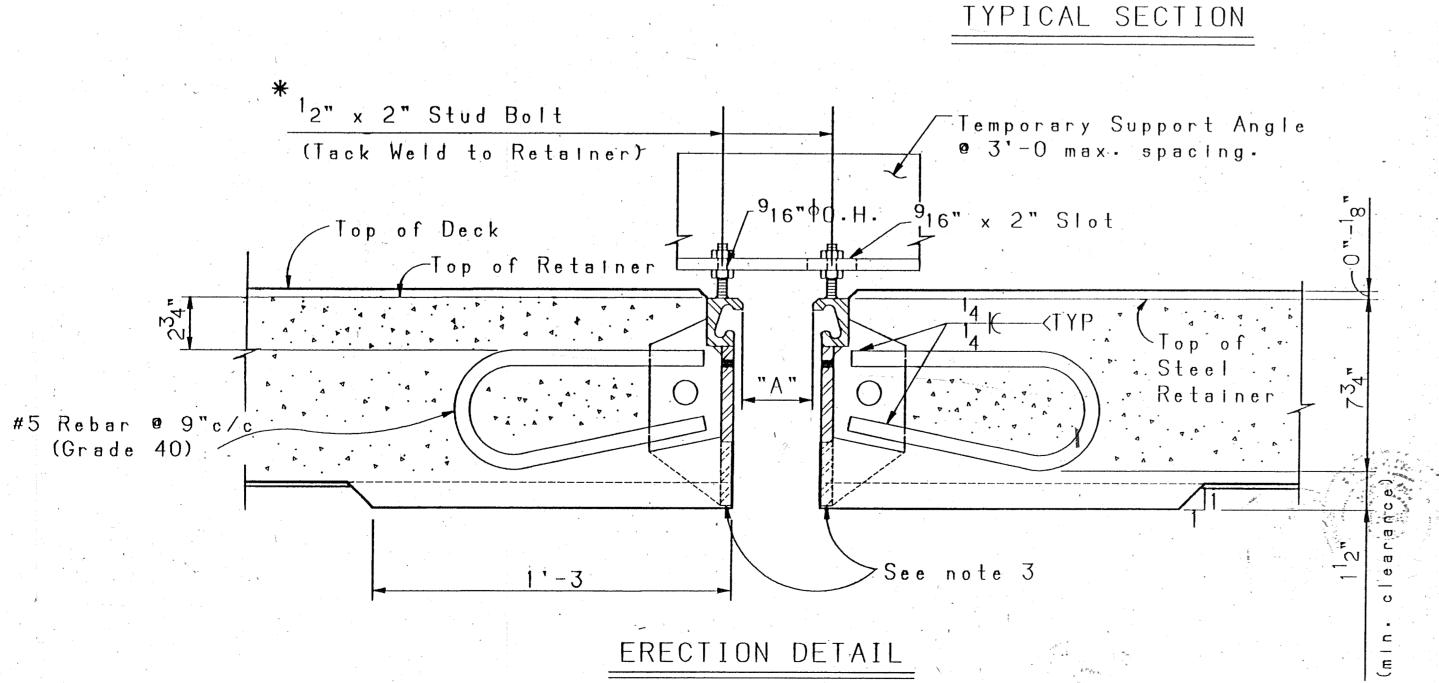


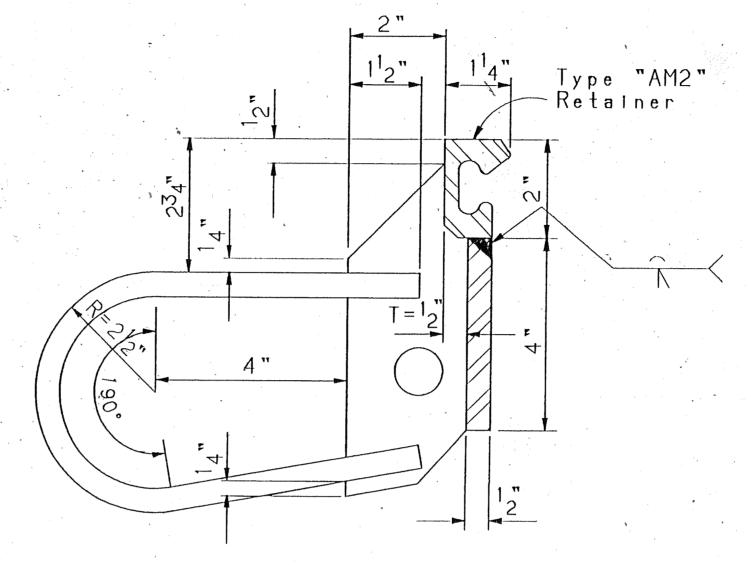
WATSON-BOWMAN & ACME

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

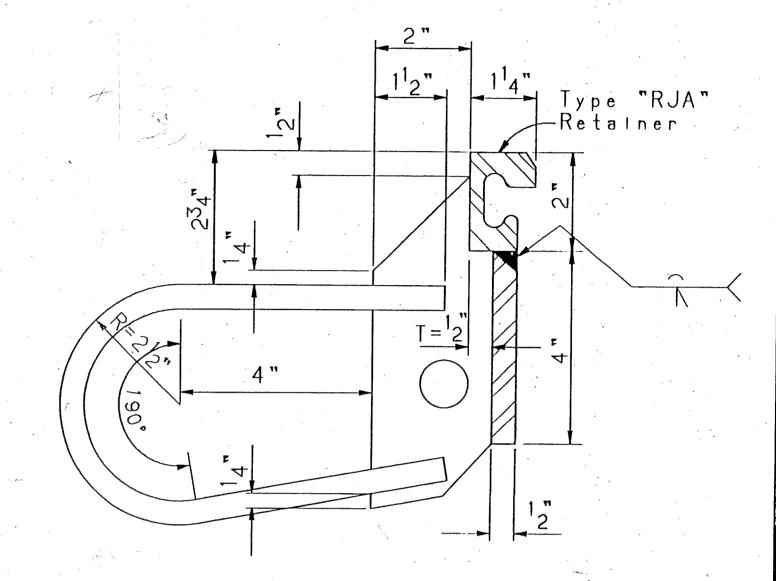




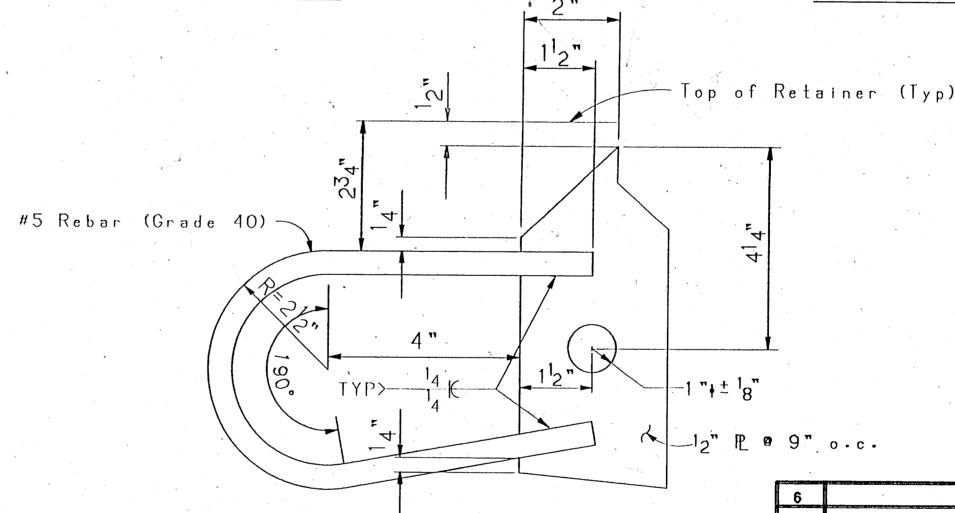




STRUCTURAL ACCESSORIES, INC.

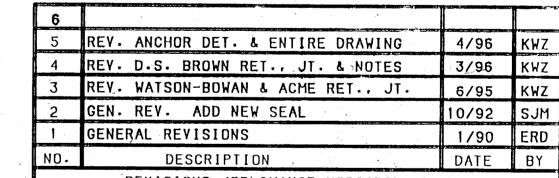


R.J. WATSON



ANCHOR DETAIL

- 1. See Serial BJS-001 for appropriate model numbers and dimension "A".
- 2. The 12" plate may be altered slightly from the detail shown to better fit the steel retainer provided.
- 3. 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.
- 4. Should the depths of the Watson-Bowman & Acme, or the D.S. Brown retainers exceed the depth of the bridge deck, the retainers shall be notched to clear the beams.



REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

SYSTEM 1 BRIDGE JOINT STRIP SEALS

TYPE "A" INSTALLATION

SERIAL BJS-002

DESIGNED DETAILED

BRIDGE#1/STANDARDS/BRIDGE/SPECIAL-DRAW\$36