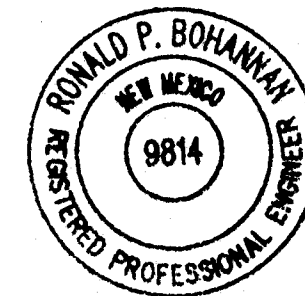


CITY OF ALBUQUERQUE, NEW MEXICO
PUBLIC WORKS DEPARTMENT
CONSTRUCTION PLANS FOR
LOUISIANA BOULEVARD
CROSSING
SOUTH DOMINGO BACA
ARROYO
AND CHANNEL IMPROVEMENTS
LOUISIANA BOULEVARD TO WYOMING BOULEVARD



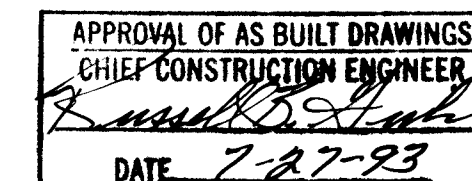
RECORD DRAWING
I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.



Ronald P. Bohannon 1/21/92
Ronald P. Bohannon
N.M.P.E. No. 9814

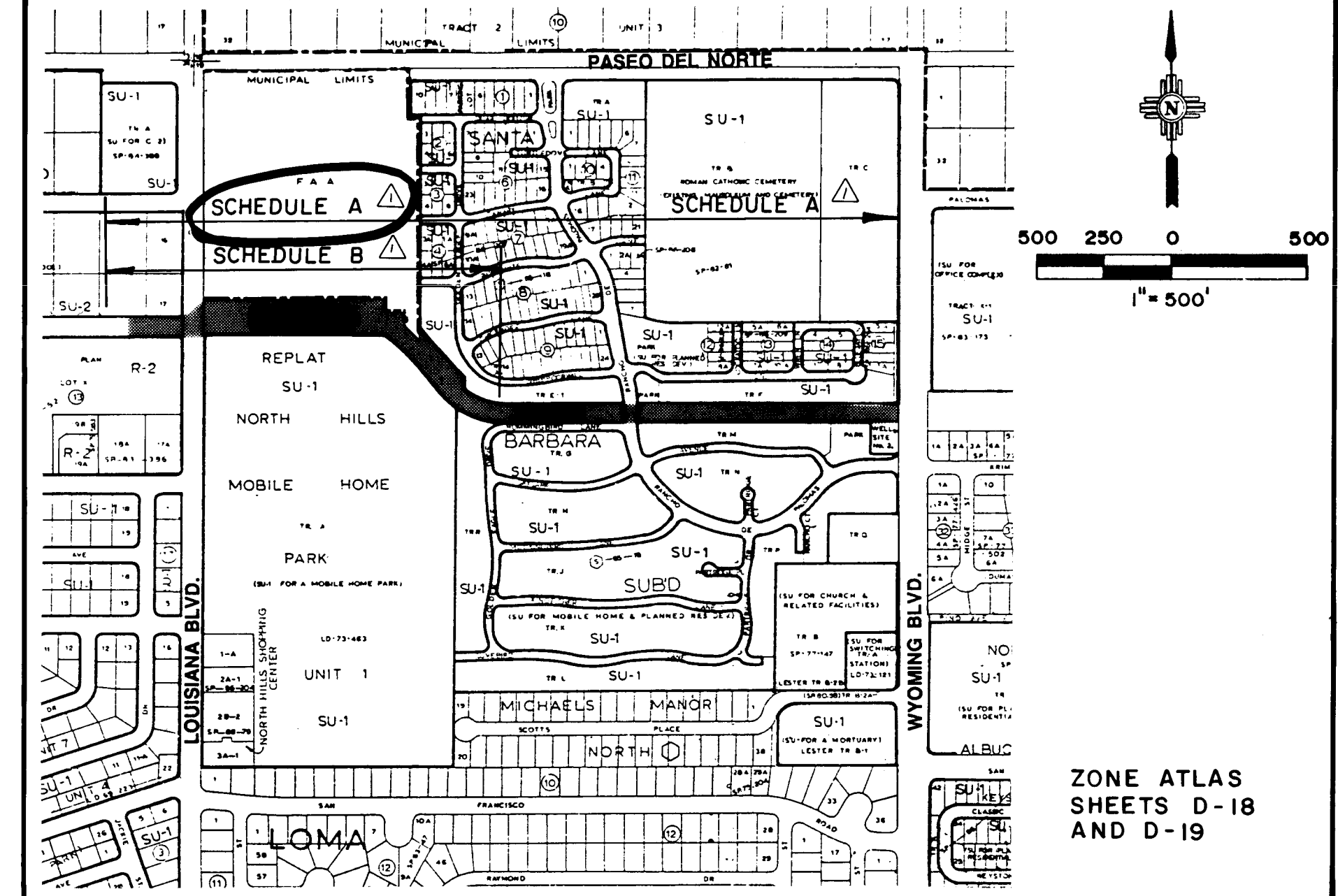
GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1986 EDITION AND CURRENT UPDATES AND SUPPLEMENTAL SPECIFICATIONS IN THE CONTRACT DOCUMENTS.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 260-1990, FOR LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL COORDINATE ALL UTILITY WORK INCLUDING CUT OFF OF EXISTING UTILITIES FOR NEW CONNECTIONS (FIRE PROTECTION, DOMESTIC WATER, SEWER, STORM DRAIN, GAS PIPING, ETC.) WITH ENGINEER, OWNER, AND LOCAL UTILITY REPRESENTATIVES.
- THESE DRAWINGS REFLECT INFORMATION ON UTILITIES GATHERED BY SITE INSPECTION, DISCUSSIONS WITH MUNICIPAL OFFICIALS AND PREVIOUS CONSTRUCTION DRAWINGS. IT IS POSSIBLE THAT THE EXACT LOCATION OF LINES AND UTILITY CONNECTION POINTS IN THE IMMEDIATE VICINITY OF THE PROPOSED SITE MAY BE SLIGHTLY DIFFERENT FROM THE LOCATION SHOWN ON THIS DRAWING. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- ALL GAS, ELECTRIC, TELEPHONE LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE DONE BY THE RESPONSIBLE UTILITY. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS.
- THE CONTRACTOR SHALL PROTECT AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE CONTRACTOR'S RESPONSIBILITY.
- ALL EXCAVATION/CONSTRUCTION PERMITS WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- THE CONTRACTOR SHALL EXERCISE REASONABLE CARE DURING CONSTRUCTION TO PREVENT THE MOVEMENT OF SEDIMENT FROM THE SITE INTO THE STREET. LOOSE SOIL STOCKPILES IN THE STREET DURING UTILITY CONNECTION ACTIVITIES SHALL BE PROTECTED FROM BEING CARRIED DOWNSTREAM BY FLOWING WATER IN THE STREET.
- DISPOSAL OF ALL WASTE MATERIAL AND UNSUITABLE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AS SPECIFIED IN SECTION 6.14 OF THE GENERAL CONDITIONS IN THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1986 EDITION.
- A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, ASPHALTIC PAVING, CONCRETE CURBS AND SIDEWALKS, ETC., SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE FIELD ENGINEER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERE TO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
- THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE CONSTRUCTION LIMITS AND/OR PUBLIC RIGHT-OF-WAY AND SHALL PRESERVE EXISTING VEGETATION AND PRIVATE PROPERTY. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION. TEMPORARY ACCESS CLOSURES SHALL BE SUBJECT TO PRIOR APPROVAL BY THE PROJECT ENGINEER. CONTRACTOR SHALL SCHEDULE CLOSURES WITH AFFECTED PROPERTY OWNERS AT LEAST 24 HOURS IN ADVANCE OF CLOSURE.
- WHEN ABUTTING NEW PAVEMENT TO EXISTING, SAWCUT EXISTING PAVEMENT TO A STRAIGHT EDGE AND AT A RIGHT ANGLE, OR AS APPROVED BY THE PROJECT ENGINEER, TO REMOVE ANY BROKEN OR CRACKED PAVEMENT.
- THE CONTRACTOR SHALL SUBMIT A DETAILED CONSTRUCTION SCHEDULE AND SUBMIT A CONSTRUCTION SIGNING AND BARRICADING PLAN TO CONSTRUCTION COORDINATION A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION TO RECEIVE A BARRICADING PERMIT. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE BARRICADE ENGINEER (769-2551).
- THE CONTRACTOR SHALL PLACE THE PERMANENT PAVEMENT MARKINGS AS REQUIRED BY THE PLANS AND SPECIFICATIONS.
- 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. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE WRITTEN 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 MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED.
- EXISTING IMPROVEMENTS NOT SHOWN TO BE REMOVED UNDER THIS CONTRACT WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR OR HIS SUBCONTRACTORS SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK SHALL BE TO THE NEAREST JOINT OR SAW CUT.
- ALL EXISTING MANHOLES AND VALVE BOXES WITHIN THE CONSTRUCTION LIMITS SHALL BE ADJUSTED TO THE NEW FINISH GRADE AS PART OF THE PAVING OPERATIONS.
- SUITABLE RIPRAP MATERIAL EXISTING WITHIN THE LIMITS OF CONSTRUCTION MAY BE REMOVED AND STOCKPILED BY THE CONTRACTOR FOR USE ON THIS PROJECT AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL RESEED ALL DISTURBED SOIL AREAS WITHIN THE WORK AREA IN ACCORDANCE WITH SPECIFICATION SECTION 1011.
- ALL CONCRETE SHALL BE 3000 PSI 28 DAY STRENGTH IN ACCORDANCE WITH PROJECT SPECIFICATIONS UNLESS OTHERWISE NOTED.
- ALL REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BARS UNLESS OTHERWISE NOTED.
- ALL EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER UNLESS OTHERWISE NOTED.
- CHANNEL REINFORCING STEEL SHALL BE SUPPORTED ON CONTINUOUS 3" HIGH SAND CHAIRS AT A MAXIMUM SPACING OF 5' OC PERPENDICULAR TO THE CHANNEL CENTERLINE.
- WARP CHANNEL TIE SLOPES WHERE REQUIRED TO REMAIN WITHIN CHANNEL RIGHT-OF-WAY OR EASEMENT.
- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- BACKFILL COMPACTION AND PAVING SHALL BE ACCORDING TO C.O.A. STD. DWG. 2465.
- TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE FIELD ENGINEER.
- SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHERE EVER A NEW CURB RETURN IS CONSTRUCTED.
- IF CURB IS DERESSED FOR A HANDICAP RAMP, THE RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
- ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 38 40 90 00 193

VICINITY MAP.



SHEET INDEX

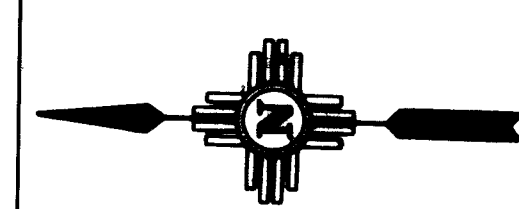
- TITLE SHEET
- LOUISIANA BOULEVARD PLAN & PROFILE STA. 6+00 TO STA. 18+00, PAVING IMPROVEMENTS
- LOUISIANA BOULEVARD PLAN & PROFILE STA. 6+00 TO STA. 18+00, STORM DRAIN IMPROVEMENTS
- LOUISIANA BOULEVARD PLAN & PROFILE STA. 6+00 TO STA. 18+00, WATERLINE IMPROVEMENTS
- CHANNEL PLAN & PROFILE, STA. 54+00 TO STA. 62+75
- CHANNEL PLAN & PROFILE, STA. 62+75 TO STA. 74+50
- CHANNEL PLAN & PROFILE, STA. 74+50 TO STA. 85+23.31
- BRIDGE GENERAL NOTES & ESTIMATED QUANTITIES
- BRIDGE PLAN & PROFILE
- BRIDGE TRANSVERSE & LONGITUDINAL SECTIONS
- BRIDGE VOIDED SLAB BEAM DETAILS
- BRIDGE ABUTMENT NO. 1 & WINGWALL DETAILS
- BRIDGE ABUTMENT NO. 2 & WINGWALL DETAILS
- WATER SHUTOFF, PAVEMENT MARKING, AND TRAFFIC CONTROL PLAN
- TYPICAL CHANNEL DETAILS
- PIPE PENETRATION DETAILS
- RUNDOWN DETAILS
- DETAILS
- CONCRETE/RIPRAP/EARTH CHANNEL TRANSITION DETAIL

20-25 CHANNEL CROSS-SECTIONS

- CHANNEL CROSS-SECTIONS AND DETAILS
- EARTH / RIPRAP / CONCRETE CHANNEL TRANSITION DETAIL
- BUILT 10' WIDE BIKE TRAIL (2" 18" SURFACE) ON SOUTH SIDE OF CHANNEL FROM LOUISIANA TO WYOMING - 4' FROM SLOPE - ALSO INSTALLED GUARDRAIL @ CURVES
- PROJECT BUILT AS PER SCHEDULE "A"
- SEE SHEETS 5 & 6 FOR NEW 18" SAS
- SEE SHEET 7 FOR CHANGE ORDER WATERLINE

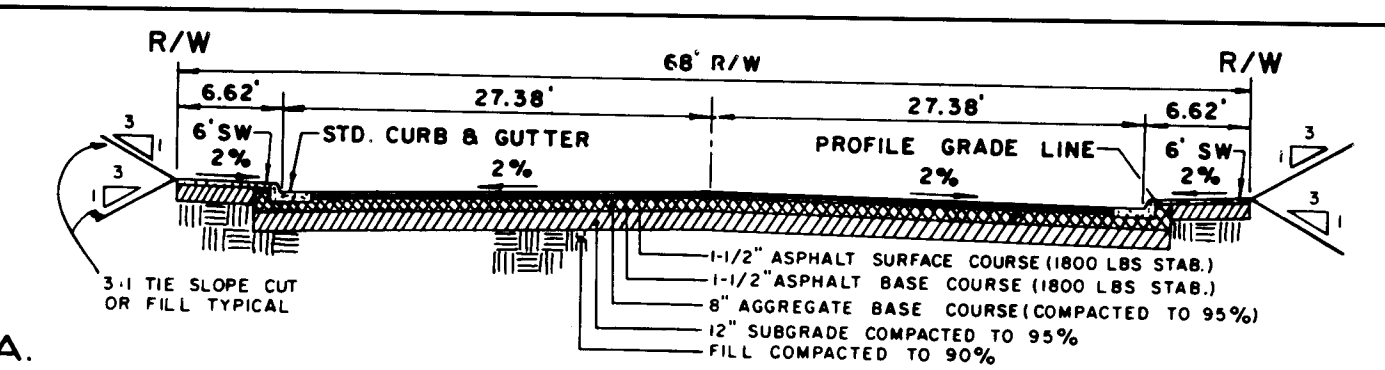
REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
9	1-27	C. Manly	1-31-91	Steve Bobers	1-31-91		
1-27		C. Manly	1-31-91	Steve Bobers	1-31-91		
APPROVAL OF REVISIONS							

	EASTERLING & ASSOCIATES, INC. CONSULTING ENGINEERS 5643 Paradise Blvd., NW Albuquerque, New Mexico 87114 (505) 898-8021	APPROVED FOR CONSTRUCTION <i>Ronald P. Bohannon</i> CITY ENGINEER 1-31-91 DATE
	PROJECT NUMBER 3840.90	PLAN SET NUMBER SHEET 1 OF 27

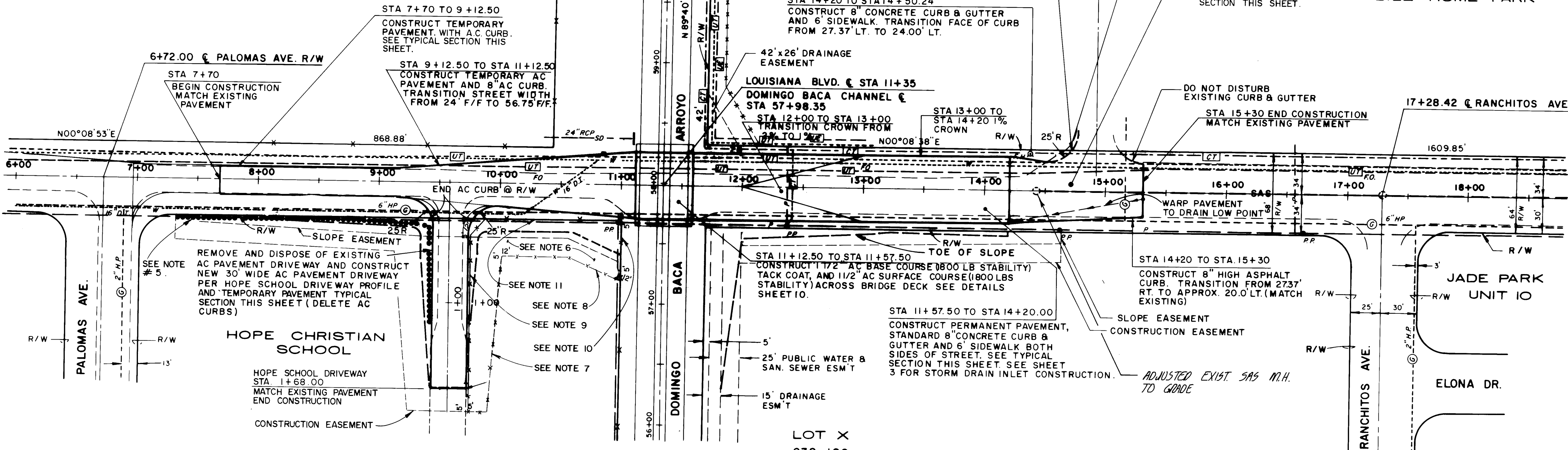


F.A.A.
AIR TRAFFIC CONTROL
CENTER

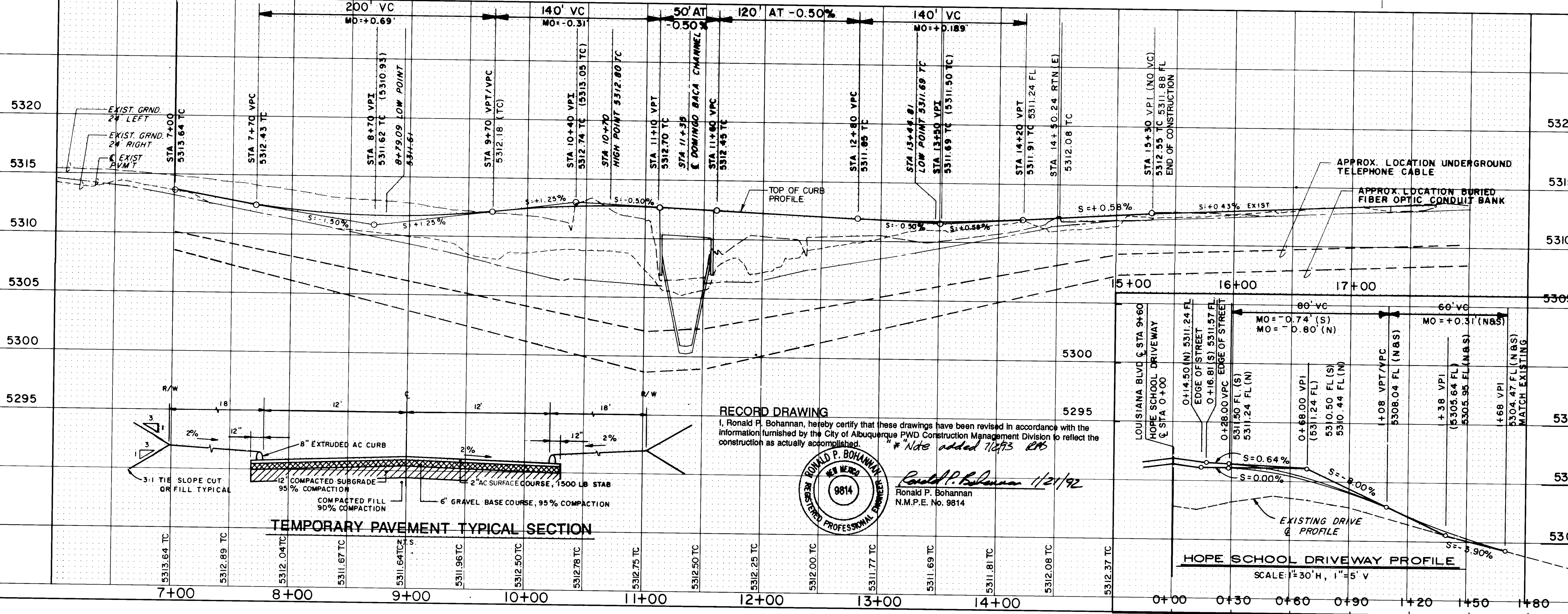
PERMANENT PAVING TYPICAL SECTION



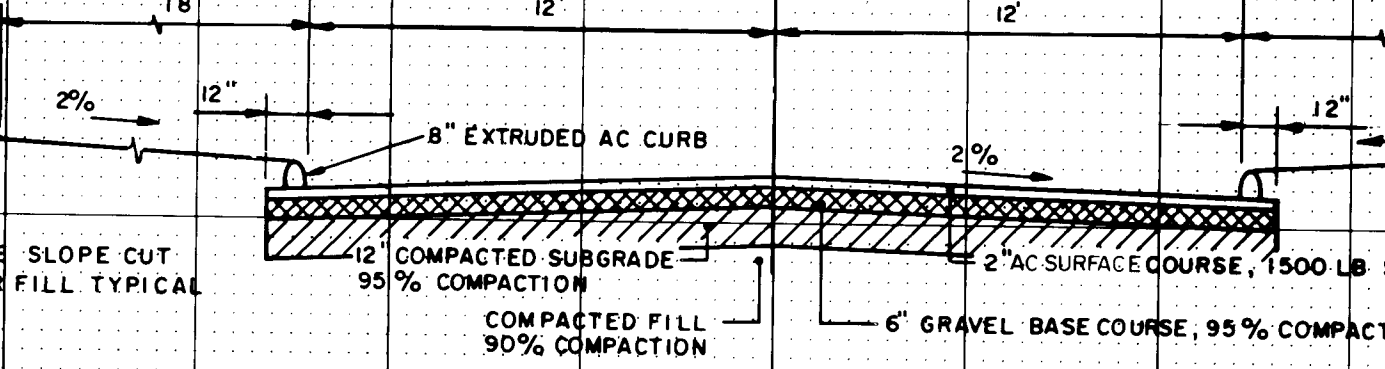
NOTE: ALL WORK SHOWN ON THIS SHEET IS INCLUDED IN SCHEDULE A AND SCHEDULE B



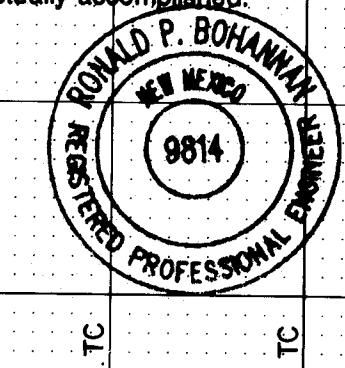
LOUISIANA BLVD.



TEMPORARY PAVEMENT TYPICAL SECTION



RECORD DRAWING
I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.
* Note added 10/13/90



Ronald P. Bohannon 10/12/92
Ronald P. Bohannon
N.M.P.E. No. 9814

NOTES:

- STA. 7+70 TO STA. 15+30. SAWCUT, REMOVE & DISPOSE OF EXISTING AC PAVEMENT.
- APPROX. STA. 10+50 TO STA. 12+00. REMOVE & DISPOSE OF EXISTING CONCRETE CUTOFF WALL AT EDGE OF EXISTING PAVEMENT BOTH SIDES OF STREET.
- BUTT EXTRUDED ASPHALT CURB UP TO CONCRETE CURB TO BE CONSTRUCTED WITH TYPE "A" INLETS AT STA. 8+79 AND STA. 10+10. SEE STORM DRAIN IMPROVEMENTS SHEET 3.
- CONTRACTOR SHALL COORDINATE UTILITY RELOCATIONS BY THE RESPECTIVE UTILITIES.
- CONTRACTOR SHALL REMOVE AND REPLACE APPROX. 300 LF OF RAILROAD TIE/METAL BARRIER AND LANDSCAPING (6 POPLAR TREES AND 3 COTTONWOOD TREES, 4" CALIPER) ALONG EAST AND SOUTH SIDES OF HOPE SCHOOL PARKING AREA. PAYMENT SHALL BE MADE IN ACCORDANCE WITH BID PROPOSAL.
- EXISTING PLAYGROUND EQUIPMENT WITHIN LIMITS OF CONSTRUCTION SHALL BE RELOCATED BY OTHERS.
- PROVIDE, INSTALL, AND REMOVE APPROX. 150 LF OF TEMPORARY 5' HIGH CHAIN LINK FENCE.
KEY: 5' - x - x - x - x - x - x - 5'
- PROVIDE, INSTALL, AND REMOVE APPROX. 105 LF OF TEMPORARY 12' HIGH CHAIN LINK FENCE.
KEY: 12' - x - x - x - x - x - x - 12'
- REMOVE AND REINSTALL APPROX. 150 LF OF EXISTING 5' HIGH CHAIN LINK FENCE.
KEY: 5' - x - x - x - x - x - x - 5'
- REMOVE AND REINSTALL APPROX. 50 LF OF EXISTING 5' HIGH CHAIN LINK FENCE.
KEY: 5' - x - x - x - x - x - x - 5'
- REMOVE AND REINSTALL APPROX. 130 LF OF EXISTING 12' HIGH CHAIN LINK FENCE.
KEY: 12' - x - x - x - x - x - x - 12'
- CONTRACTOR SHALL STRIPE PAVEMENT IN ACCORDANCE WITH PERMANENT PAVEMENT MARKING PLAN SHEET 14.

* AS-BUILT NOTE
PAVEMENT ON LOUISIANA HAD TO BE REMOVED TO MEET SPECIFICATIONS (CONTRACTORS' PROBLEM)
* 5/8" PMSC PLACED ON LOUISIANA FROM 15+30 TO 11+10

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	6	3	8	4	0	9	0	2	9	3				

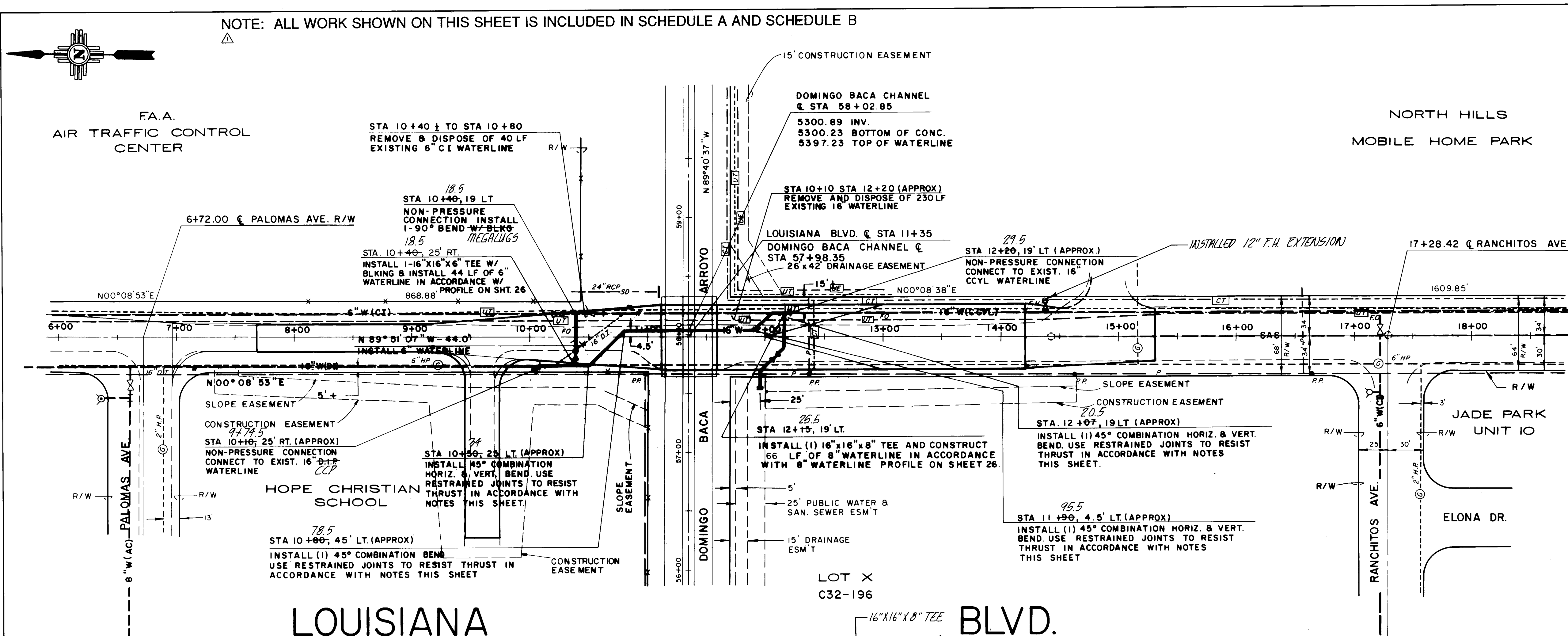
SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
5643 PARADISE BLVD. N.W. ALBUQUERQUE, N.M. 87105 (505) 998-8021

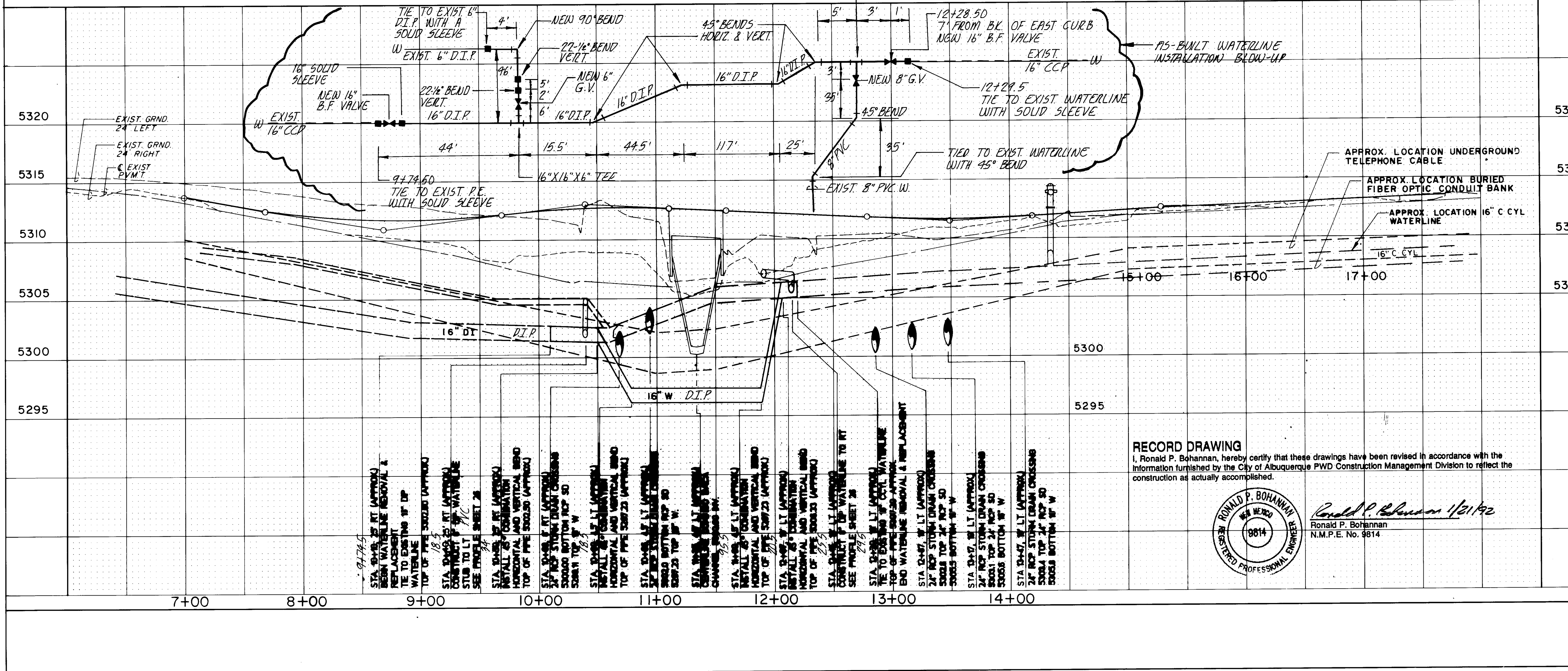
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: LOUISIANA BLVD. CROSSING/DOMINGO BACA ARROYO
LOUISIANA BLVD. PLAN & PROFILE STA 6+00 TO STA 18+00
PAVING IMPROVEMENTS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	[Signature]	10-10-90	WATER	R.W. Kane	10-10-90
TRANS. DEV.	[Signature]	10-10-90	WASTE WATER	R.W. Kane	10-10-90
HYDROLOGY	[Signature]	10-10-90			



LOUISIANA BLVD.



GENERAL NOTES:

- Contractor shall field verify horizontal and vertical locations of all waterline connection points prior to ordering materials.
- Restrained joints required on 16" waterline relocation from Sta. 10+30 to Sta. 11+00 and from Sta. 11+70 to Sta. 12+50. Restrained joint length requirements are based on compacted backfill to full trench depth (gutter FL). Additional restrained joint length will be required, as determined by the engineer, if testing is to be performed with less than full trench depth backfill.
- Contractor shall notify engineer of any field conditions which require a change in line and grade that effect the thrust restraint designs shown herein.
- All restrained joint welds for concrete cylinder pipe shall be as specified by the manufacturer.
- When ductile iron pipe is supplied, joint restraint shall be accomplished with engineer approved, boltless restraining glands.
- Contractor shall provide thrust blocking in accordance with City of Albuquerque Standard Drawings 2320 and 2335 for all bends, tees, caps, and valves on pipeline equal to or less than 14-inch diameter.
- Concrete for thrust blocks shall be placed monolithically and shall attain a 28 day compressive strength of 3,000 psi.
- Contractor shall coordinate utility relocations by the respective utilities.
- Contractor shall make adequate provisions for draining the waterlines involved in waterline improvements. This work shall be incidental to other waterline work and no separate measurement or payment shall be made.
- Refer to sheet 3 for storm drain construction.

① NEW 16" WATERLINE = D.I.P.
② NEW 6" AND 8" WATERLINE = PVC
③ 6" AND 8" WATERLINES ALSO RESTRAINED BY MEGALUG GLANDS.
④ SEE SHEET #7 FOR ADDITIONAL WATERLINE WORK.

AS-BUILT INFORMATION

CONTRACTOR	DATE
WORK	CITY
ASPECT	DATE
FIELD	CITY
VERIFICATION	DATE
CORRECTED	DATE
NO	NO

ENGINEERS SEAL

RONALD P. BOHANNAN
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
19814

RECORD DRAWING

I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.

CITY OF ALBUQUERQUE

PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: LOUISIANA BLVD. CROSSING DOMINGOS BACA ARROYO

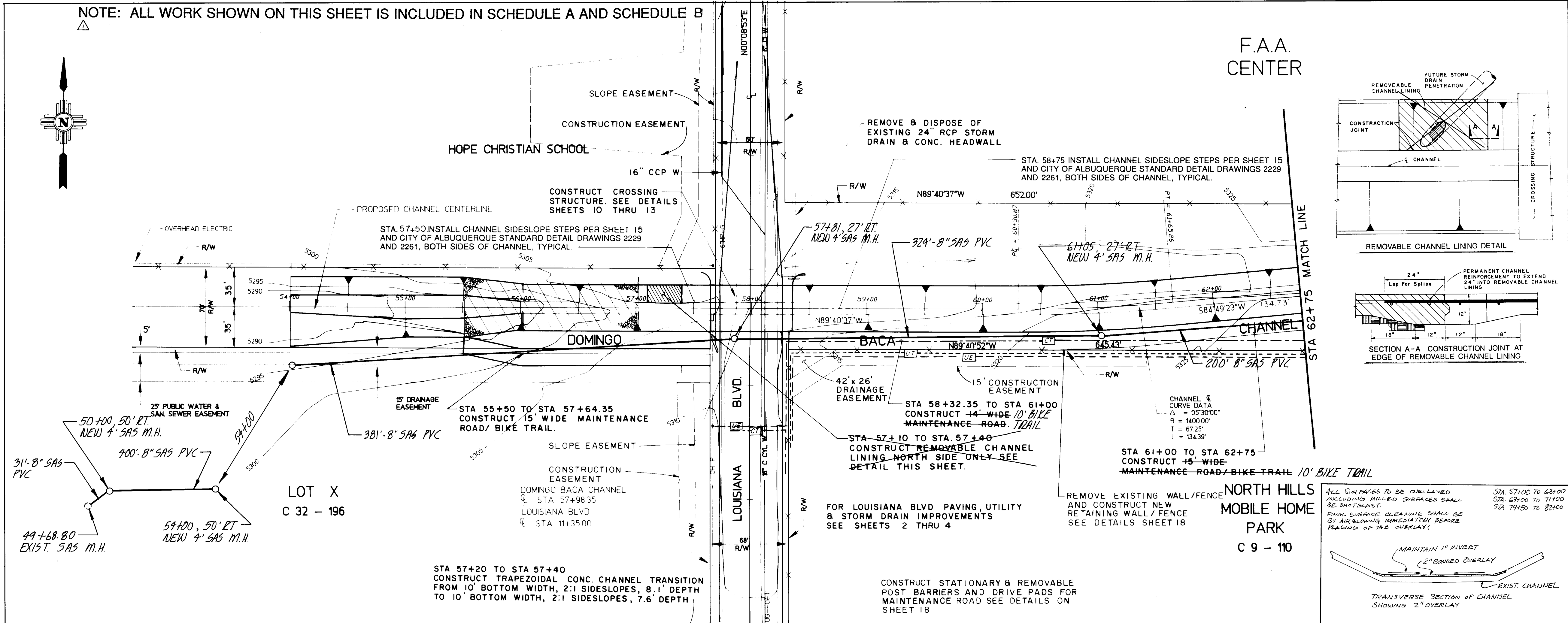
LOUISIANA BLVD. PLAN & PROFILE STA 6+00 TO STA 18+00.

WATERLINE IMPROVEMENTS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	Ronald P. Bohannon	11/5/90	WATER	R.W. Kane	10-10-90
TRANS. DEV.	R. Kane	10-10-90	WASTE WATER	R.W. Kane	10-10-90
HYDROLOGY	Steve Boley	10/10/90			

PROJECT NO. 3840

MAP NO. D-19 SHEET 4 OF 27



NOTES:

1. SOUND AND DURABLE CONCRETE CURB AND GUTTER, SIDEWALK, REINFORCED CONCRETE, AND WASTE CONCRETE OBTAINED FROM WITHIN THE LIMITS OF CONSTRUCTION IS APPROVED FOR USE AS RIP RAP MATERIAL FOR THIS PROJECT. ASPHALT PAVEMENT AND DEBRIS SHALL NOT BE USED FOR RIP RAP.

NEW 8" PVC
SAS AS-BUILT NOTES

EXISTING M.H. @ INV. 5280.00
SLOPE = 31' L.F. @ 0.01645 FT/FT
M.H. @ 50+00 @ INV. 80.51
SLOPE = 400' L.F. @ 0.01895 FT/FT
M.H. @ 54+00 @ INV. 88.09
SLOPE = 381' L.F. @ 0.04693 FT/FT
M.H. @ 57+81 @ INV. 5305.97
SLOPE = 324' L.F. @ 0.02546 FT/FT
M.H. @ 61+05 @ INV. 14.22
SLOPE = 200' L.F. @ 0.02655 FT/FT
M.H. @ 63+05 @ INV. 14.59

2" BONDED OVERLAY ADDED TO CHANNEL FLOOR AT THREE LOCATION: 57+20 TO 63+00, 69+00 TO 71+00 AND 79+50 TO 82+00.

AS-BUILT INFORMATION

CONTRACTOR	DATE	BY	NO.
AS-BUILT INFORMATION			

ENGINEERS SEAL

26 3840 900593

SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

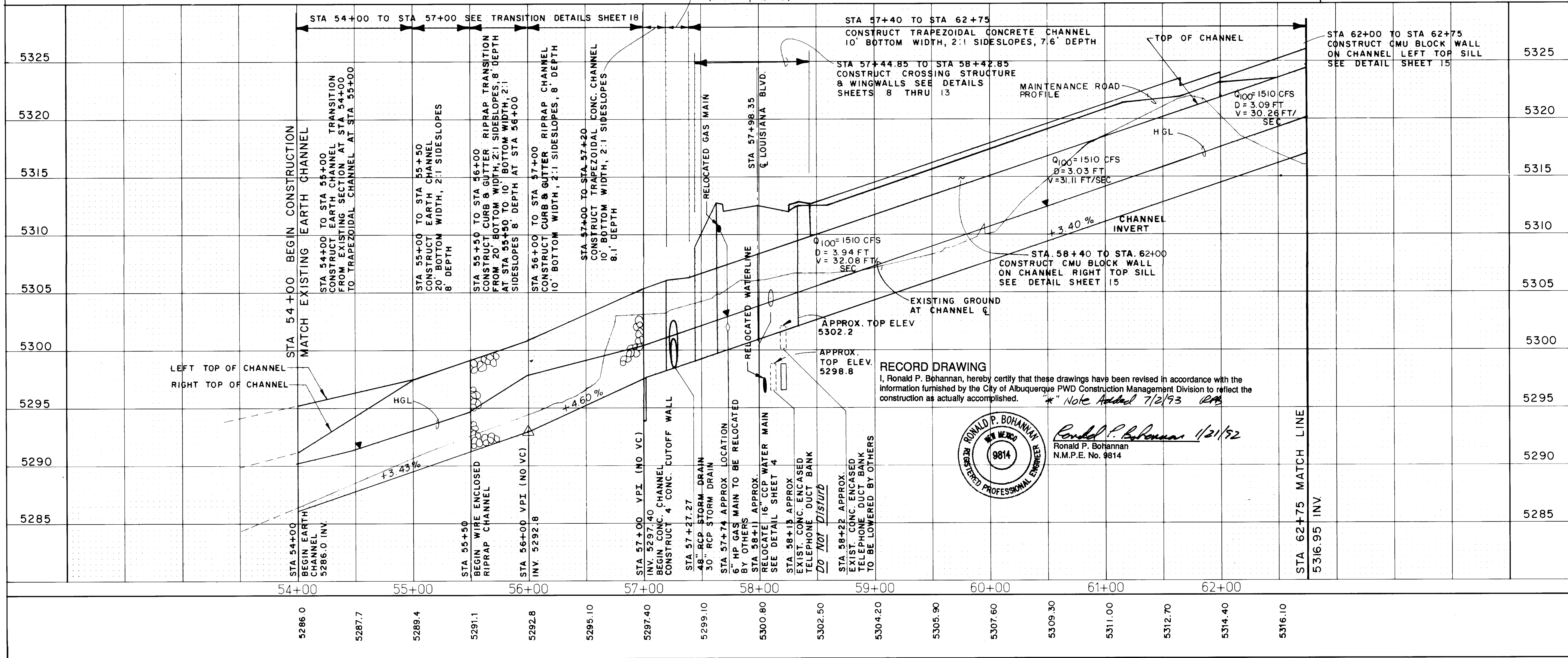
EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
5645 PARADISE BLVD. NW ABQ, N.M. (505) 898-8021

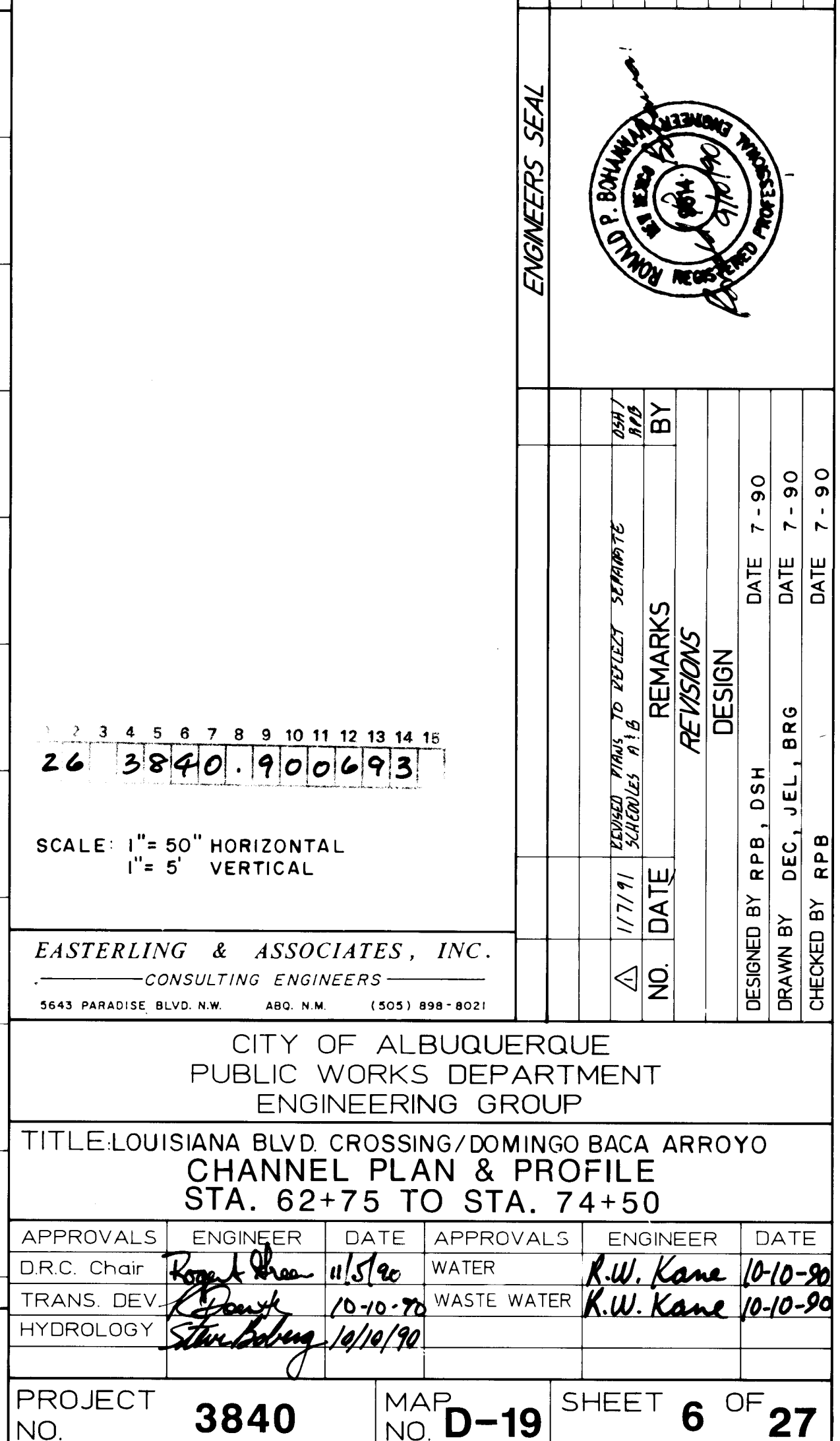
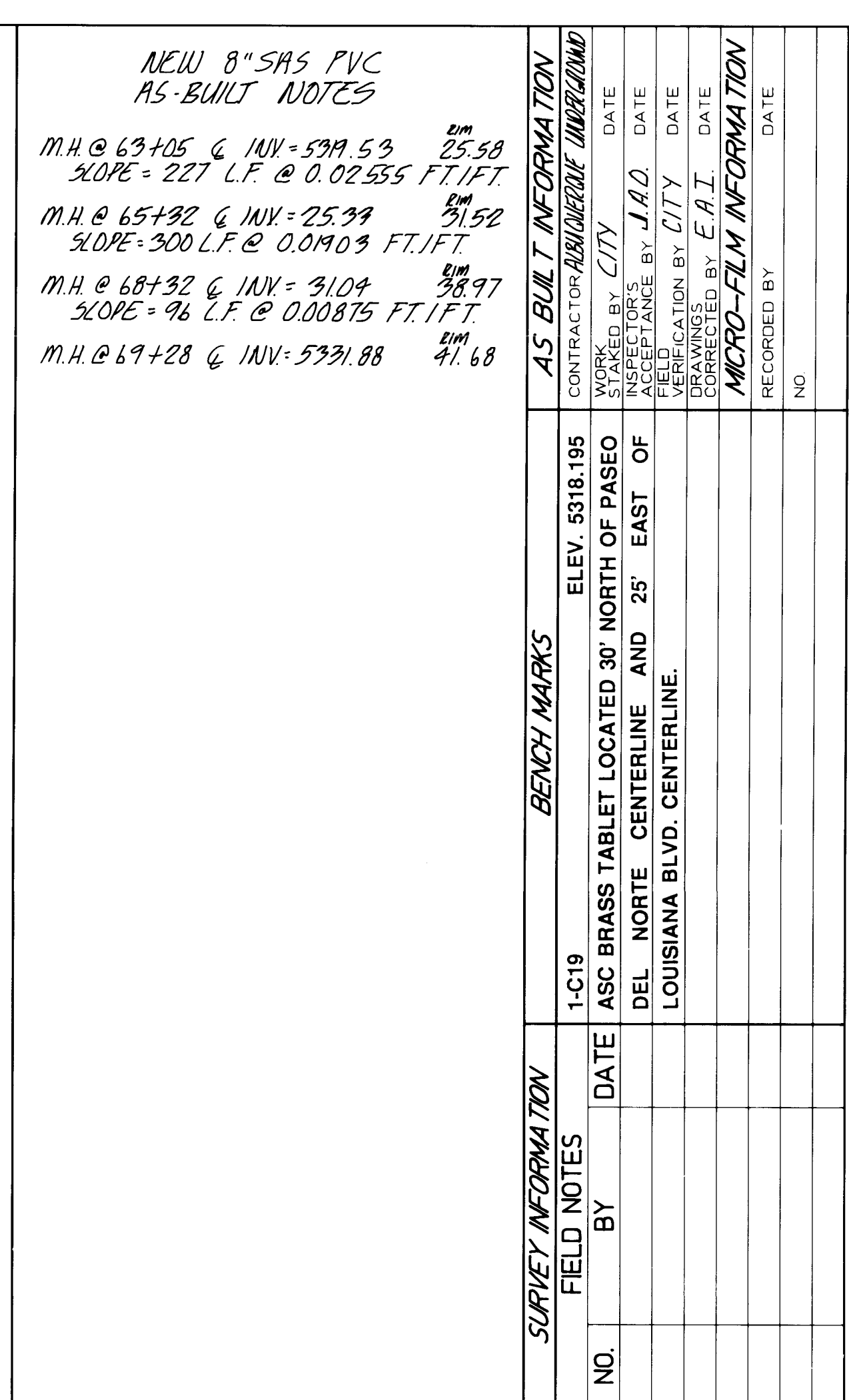
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: LOUISIANA BLVD. CROSSING/DOMINGO BACA ARROYO
CHANNEL PLAN & PROFILE
STA 54+00 TO STA 62+75

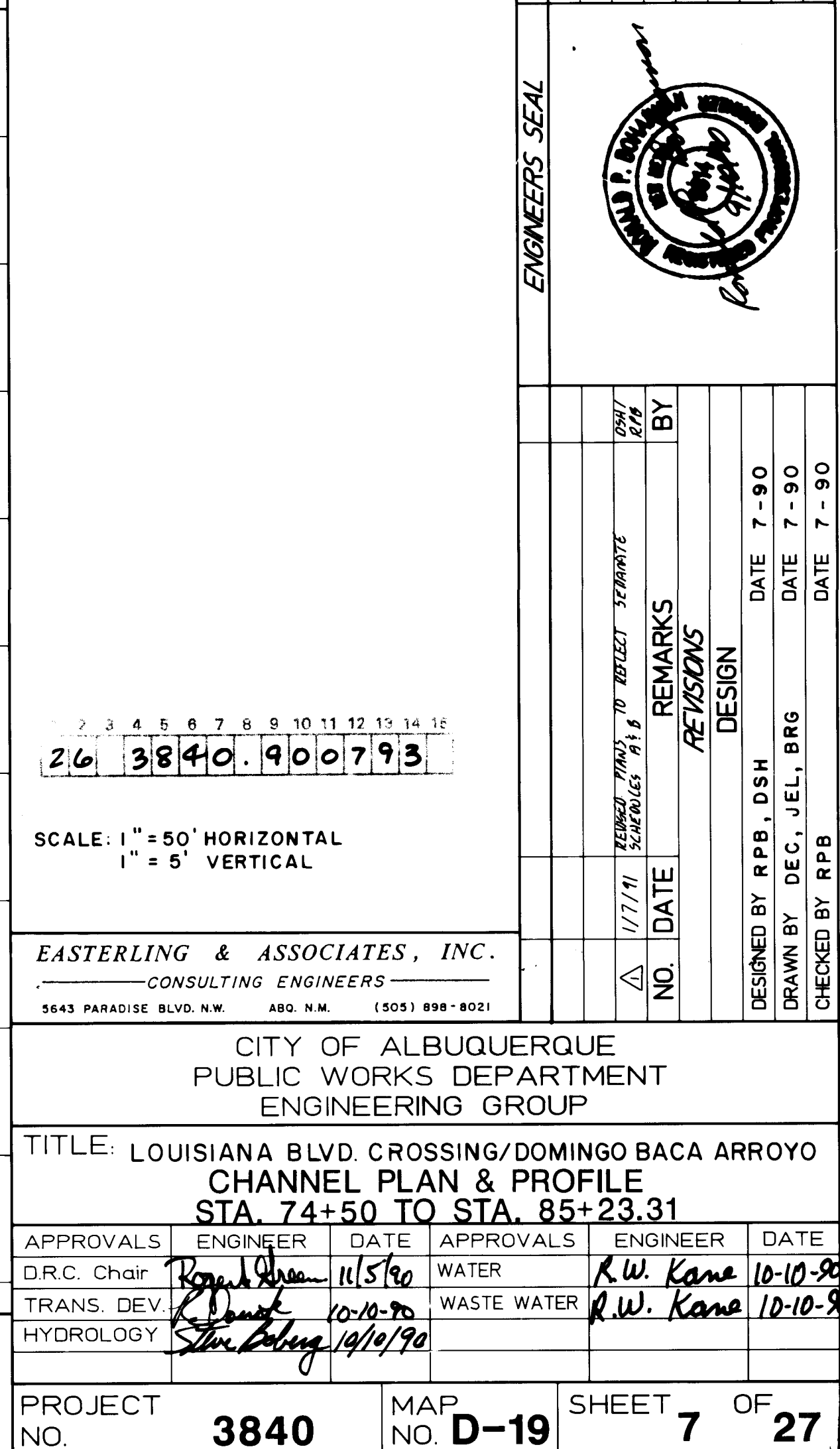
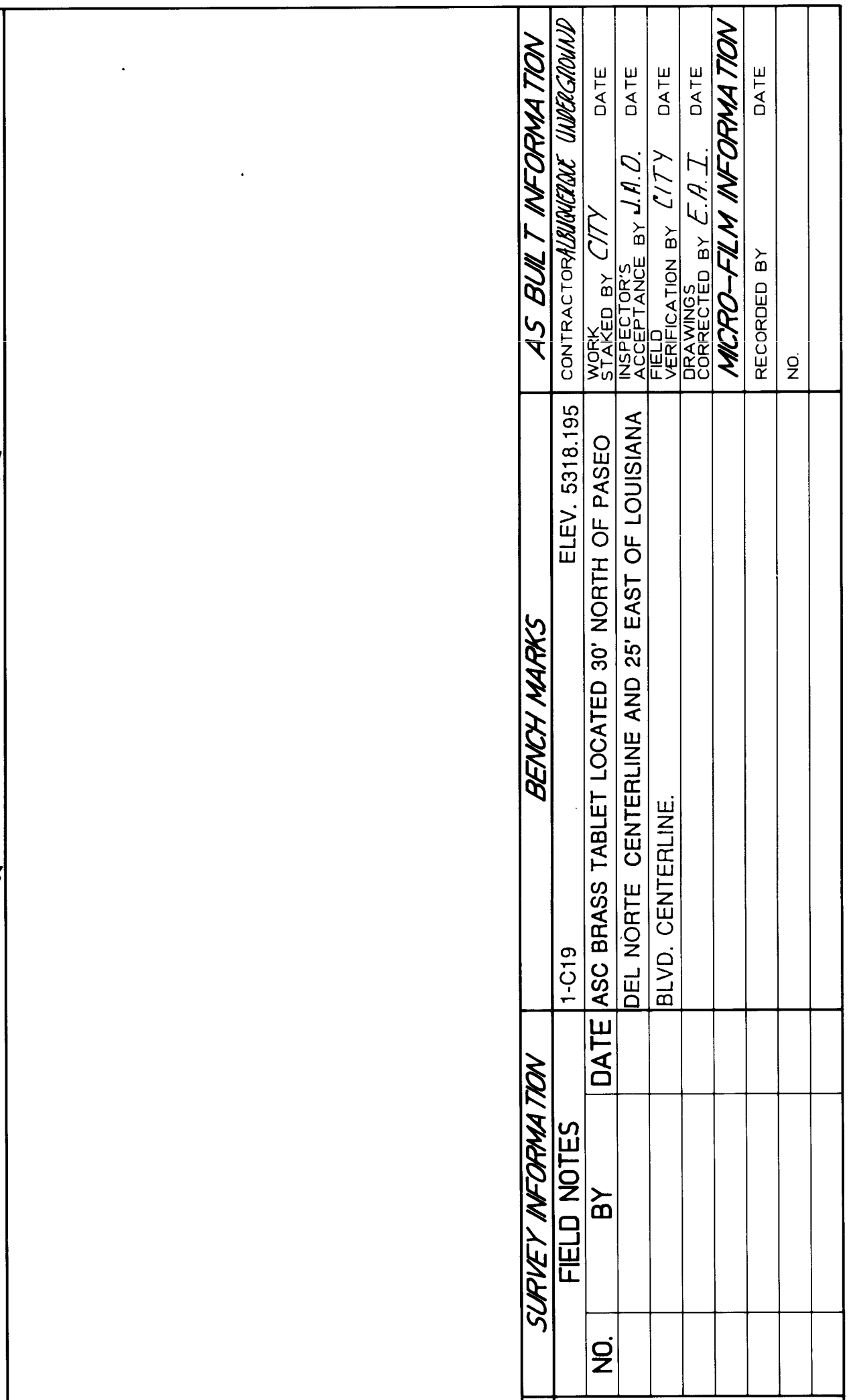
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	Ronald P. Bohannon	11/5/90	WATER	R.W. Kane	10-10-90
TRANS. DEV.	R. Bohannon	10-10-90	WASTE WATER	R.W. Kane	10-10-90
HYDROLOGY	Steve Boley	10/10/90			

PROJECT NO. 3840 MAP NO. D-19 SHEET 5 OF 27





C 31 - 21



DRAWINGS REQUIRED

DESIGN DATA

GENERAL NOTES & ESTIMATED QUANTITIES	8 OF 27
BRIDGE PLAN & PROFILE	9 OF 27
TRANSVERSE & LONGITUDINAL SECTION THRU BRIDGE	10 OF 27
VOIDED SLAB BEAM DETAILS	11 OF 27
ABUTMENT NO. 1 & WINGWALL DETAILS	12 OF 27
ABUTMENT NO. 2 & WINGWALL DETAILS	13 OF 27

METAL RAILING GENERAL NOTES & TYPICAL DETAILS
NMSHTD BMR-001-10 18 OF 27

METAL RAILING TYPE B (TERMINAL CONNECTOR TO
BRIDGE RAIL)
CITY OF ALBUQUERQUE DWG. 2602

DESIGN STRESSES: STRUCTURAL STEEL-AASHTO M-183, FS=20,000. PSI

REINFORCED CONCRETE: 4000
SUPERSTRUCTURE: F'C=3,000. PSI AT 28 DAYS
4000. F'C=1,200. PSI FS=24,000. PSI
SUBSTRUCTURE: F'C=3,000. PSI AT 28 DAYS
FC=1,200. PSI FS=24,000. PSI GRADE 60
N=9 FS=20,000. PSI GRADE 40

WEARING SURFACE: 30 PSF ALLOWANCE FOR FUTURE WEARING SURFACE.

MAXIMUM COMPUTED PILE LOAD

ABUT. NO. 1 : 80 KIPS
ABUT. NO. 2 : 80 KIPS

BEAMS:FCI (MIN. COMP. STRENGTH OF CONC. AT
TIME OF INITIAL PRESTRESS)=4750 PSI
FC=5500 PSI, N=7, 1/2" DIA. HIGH TENSILE
STRENGTH 7 WIRE STRANDS.
INITIAL PRESTRESS=28910. LBS/STRAND,
F'S=41300. LBS/STRAND, FY=35100. LBS/STRAND
FSE=22402 LBS/STRAND, PRESTRESS LOSS=6508 LBS/STRAND
FSE=21843 LBS/STRAND, PRESTRESS LOSS=7067 LBS/STRAND
CASTING STEEL:FS=20000. PSI, FY=40000. PSI
WEARING SURFACE=30. LBS/SQ. FT.

GENERAL NOTES

1. WORKMANSHIP AND MATERIAL SHALL CONFORM TO CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986 EDITION.
2. CONCRETE FOR STRUCTURAL CAST-IN-PLACE CONCRETE USE CLASS A. CHAMFER ALL EXPOSED EDGES OF CONCRETE STRUCTURES 3/4 INCH UNLESS NOTED OTHERWISE ON THE DETAILS.
3. REINFORCING BARS. ALL REINFORCING BARS SHALL CONFORM TO AASHTO M-31, GRADE 60, UNLESS NOTED OTHERWISE ON THE DETAILS DIMENSIONS REFER TO CENTERLINE OF BAR UNLESS NOTED OTHERWISE ON THE DETAILS.
4. STRUCTURAL STEEL TO BE CARBON STEEL CONFORMING TO AASHTO SPECIFICATIONS M-183 UNLESS NOTED OTHERWISE ON THE DETAILS. SHOP PLANS MUST BE APPROVED BY THE ENGINEER BEFORE FABRICATION IS STARTED.
5. FOUNDATION DATA. FOUNDATION DATA SHOWN ON PLANS ARE FOR DESIGNERS ONLY. THE ENGINEER IS NOT RESPONSIBLE FOR ANY INTERPRETATION OR ASSUMPTIONS MADE BY THE CONTRACTORS BASED ON THIS INFORMATION.
6. CONTRACTOR SHALL VERIFY IN THE FIELD ALL DIMENSIONS, ELEVATIONS AND DETAILS PERTAINING TO THE EXISTING STRUCTURE WHICH WILL BE INVOLVED IN THE NEW CONSTRUCTION BEFORE PROCEEDING WITH THE NEW WORK.
7. ALL PREFORMED BITUMINOUS JOINT FILLER SHALL CONFORM TO AASHTO SPECIFICATION M-213. COST OF JOINT FILLER IS INCIDENTAL TO THE COMPLETION OF THE WORK AND NO DIRECT PAYMENT WILL BE MADE THEREFORE.
8. METAL BRIDGE RAILING POSTS AND TUBES SHALL RECEIVE ONE PRIME COAT OF RED LEAD IN CONFORMANCE WITH SECTION 615 OF THE STANDARD SPECIFICATIONS AND TWO COATS OF PAINT CONFORMING TO ASSHTO M-70, TYPE 1, CLASS B. PAINT SHALL BE TINTED COLOR SAMPLES SHALL BE SUBMITTED TO THE CITY FOR APPROVAL.
9. MEMBERS SHALL CONFORM TO CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS SECTION 512, PRECAST PRESTRESSED CONCRETE MEMBERS.
10. WATERPROOFING MEMBRANE SHALL CONSIST OF PAVING FABRIC ('PETRO MAT', 'AMOPAVE', OR APPROVED EQUAL) WITH*APPROXIMATELY 0.25 GAL./SQ.YD. OF HOT APPLIED ASPHALT CEMENT ('AC-10), AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

SUPPLEMENTAL SPECIFICATION

SPECIFICATION FOR AUGERED-PRESSURE GROUTED PILING INSTALLATION

[illegible]

1. ELASTOMERIC BEARING PAD
2. WATERPROOFING MEMBRANE
3. PREFORMED BITUMINOUS JOINT FILLER

ITEMS LISTED ABOVE SHALL BE INCIDENTAL TO THE COST OF OTHER ITEMS FOR THE COMPLETION OF THE WORK AND NO DIRECT PAYMENT WILL BE MADE THEREFORE, THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIAL REQUIRED BY STANDARD DRAWINGS, SUPPLEMENTAL SPECIFICATIONS, OR THE STANDARD SPECIFICATIONS.

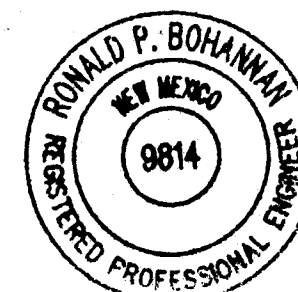
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2	3	4	5	6	7	8	9	10	11	12	13	14	15
26	3	8	4	0	.	9	0	0	8	9	3		

AVID ENGINEERING, INC.

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

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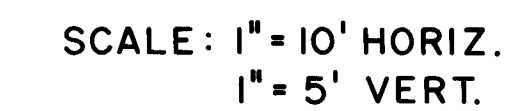
Ronald P. Bohannon 1/21/92
Ronald P. Bohannon
N.M.P.E. No. 9814

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

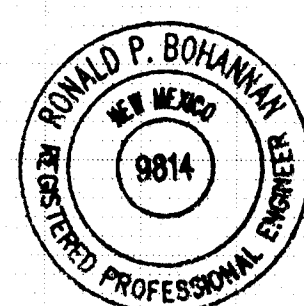
**TITLE: LOUISIANA BLVD./DOMINGO BACA ARROYO CROSSING
BRIDGE GENERAL NOTES &
ESTIMATED QUANTITIES**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chair	<i>Roger Khan</i>	<i>11/5/90</i>			
Trans. Dev	<i>R. Lowe</i>	<i>10-10-90</i>			
Utility Dev	<i>R.W. Kane</i>	<i>10-10-90</i>			
<i>HVARO</i>	<i>Stu Leberg</i>	<i>10/10/90</i>			
DRAWING NO.	3840	MAP NO.	D-19	SHEET	OF 27

NC
⚠



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Ronald P. Bohannon 1/21/92
Ronald P. Bohannon
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AVID ENGINEERING, INC.
Civil • Structural • Transportation
6100 Seagull Street NE • Suite 102
Albuquerque, NM 87109 • (505) 881-5357

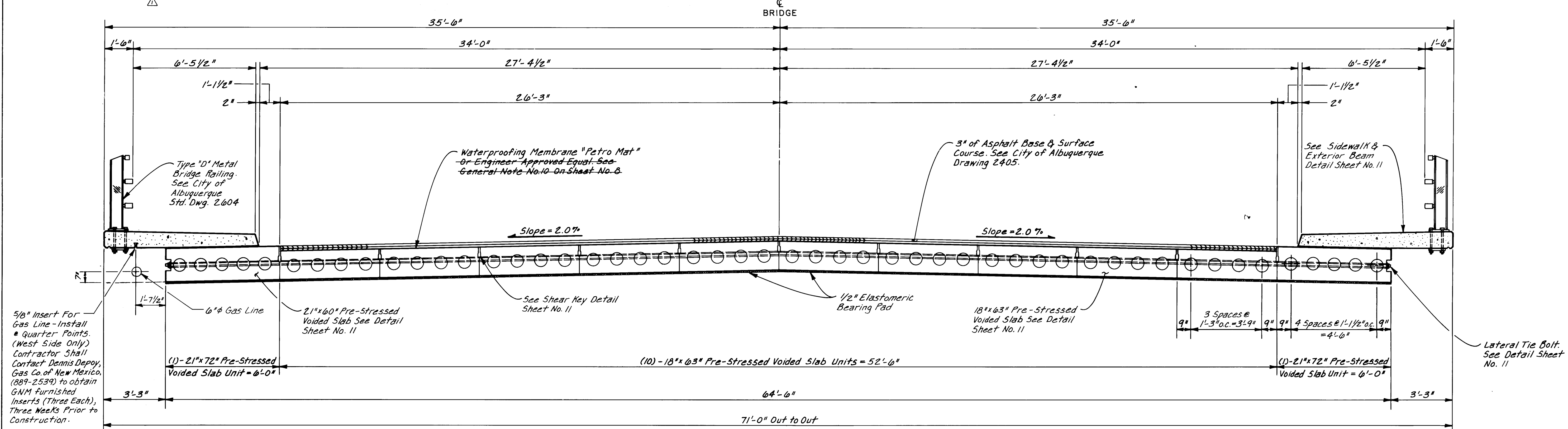
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

5295	TITLE: LOUISIANA BLVD./DOMINGO BACA ARROYO CROSSING BRIDGE PLAN AND PROFILE
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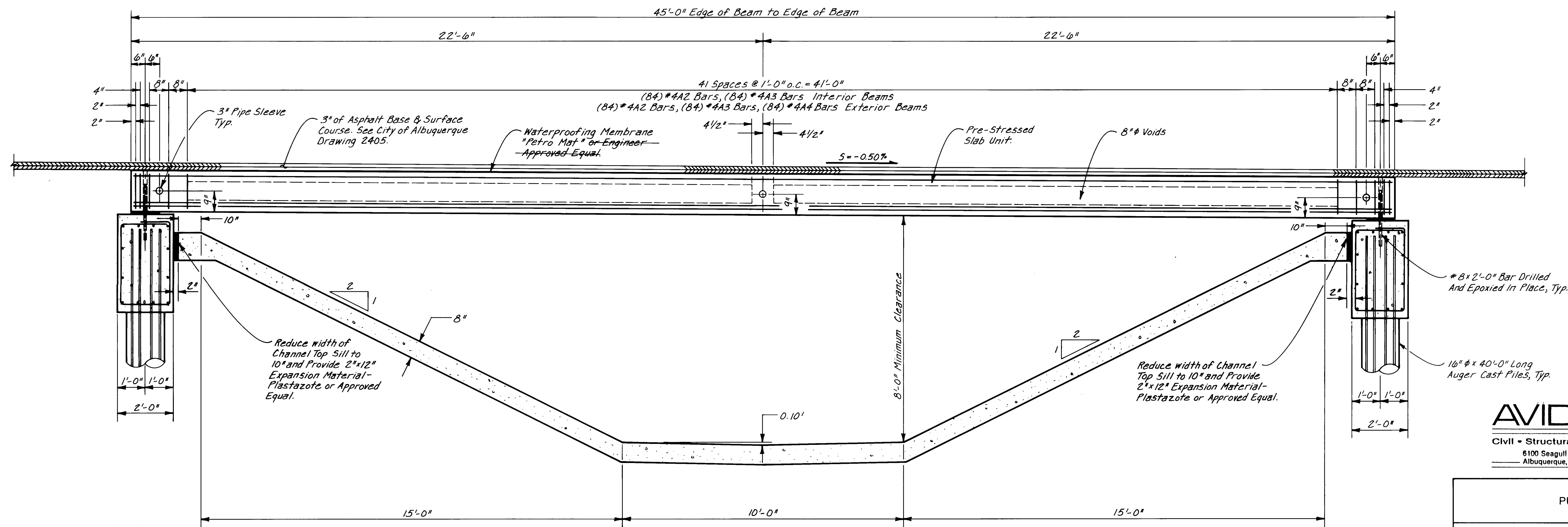
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C Chair	<i>Roger Khan</i>	4/5/90			
Trans Dev	<i>John Smith</i>	12-10-90			
Utility Dev	<i>R. St. Rane</i>	10-10-90			
<i>4/10/90</i>	<i>Steve Baker</i>	10/10/90			

DRAWING NO.	3840	MAP NO.	D-19	SHEET	9	OF	27
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NOTE: ALL WORK SHOWN ON THIS SHEET IS INCLUDED IN SCHEDULE A AND SCHEDULE B



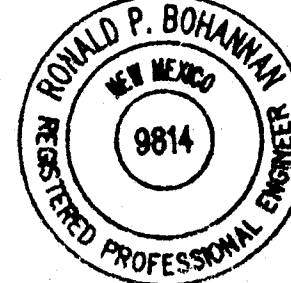
TRANSVERSE SECTION



LONGITUDINAL SECTION

RECORD DRAWING

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Ronald P. Bohannon 1/21/92
Ronald P. Bohannon
N.M.P.E. No. 9814

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Albuquerque, NM 87109 • (505) 881-5357

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

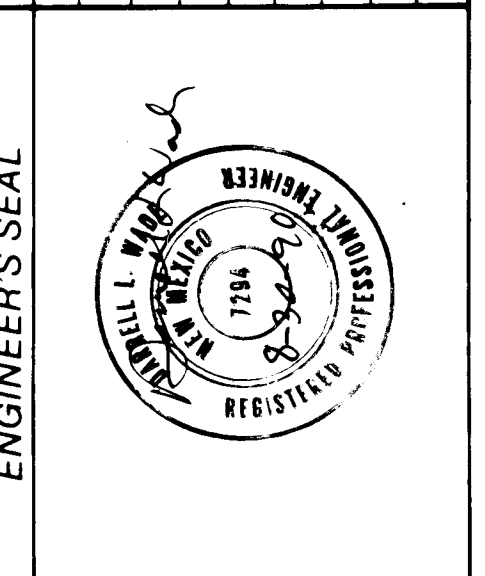
TITLE: LOUISIANA BLVD./DOMINGO BACA ARROYO CROSSING
BRIDGE TRANSVERSE AND
LONGITUDINAL SECTIONS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	Ronald P. Bohannon	11/5/90			
Trans. Dev	R. W. Kane	10-10-90			
Utility Dev	R. W. Kane	10-10-90			
HYDRO	Steve Bohannon	10/10/90			
DRAWING NO.	3840	MAP NO.	D-19	SHEET	10 OF 27

AS BUILT INFORMATION	CONTRACTOR	DATE
CONTRACTOR	ALBUQUERQUE	
INSPECTOR	CITY	
ACCEPTANCE BY	J.A.D.	
VERIFICATION BY	CITY	
CONNECTED BY	E.A.I.	
MICRO-FILM INFORMATION	RECORDED BY	DATE
	NO	

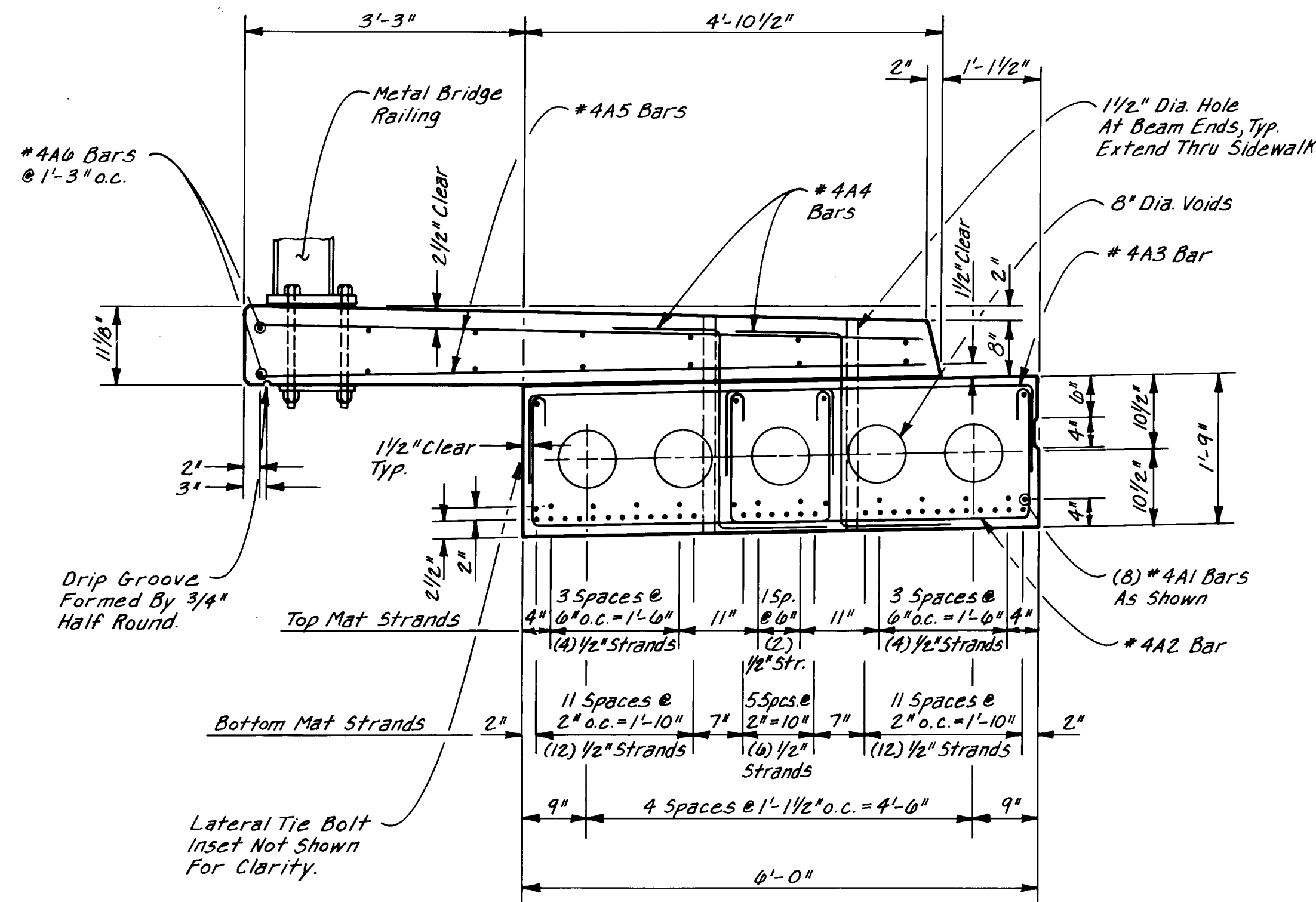
BENCH MARKS	
1-C19	ELEV. 5318.195
ASC BRASS TABLE LOCATED 30' NORTH OF PASO DEL NORTE CENTERLINE AND 25' EAST OF LOUISIANA BLVD. CENTERLINE	

SURVEY INFORMATION	FIELD NOTES	DATE
NO.	BY	



REVISIONS	DATE	BY
DESIGN	7/90	DLW
REVISIONS	7/90	RL
DESIGN	7/90	DLW

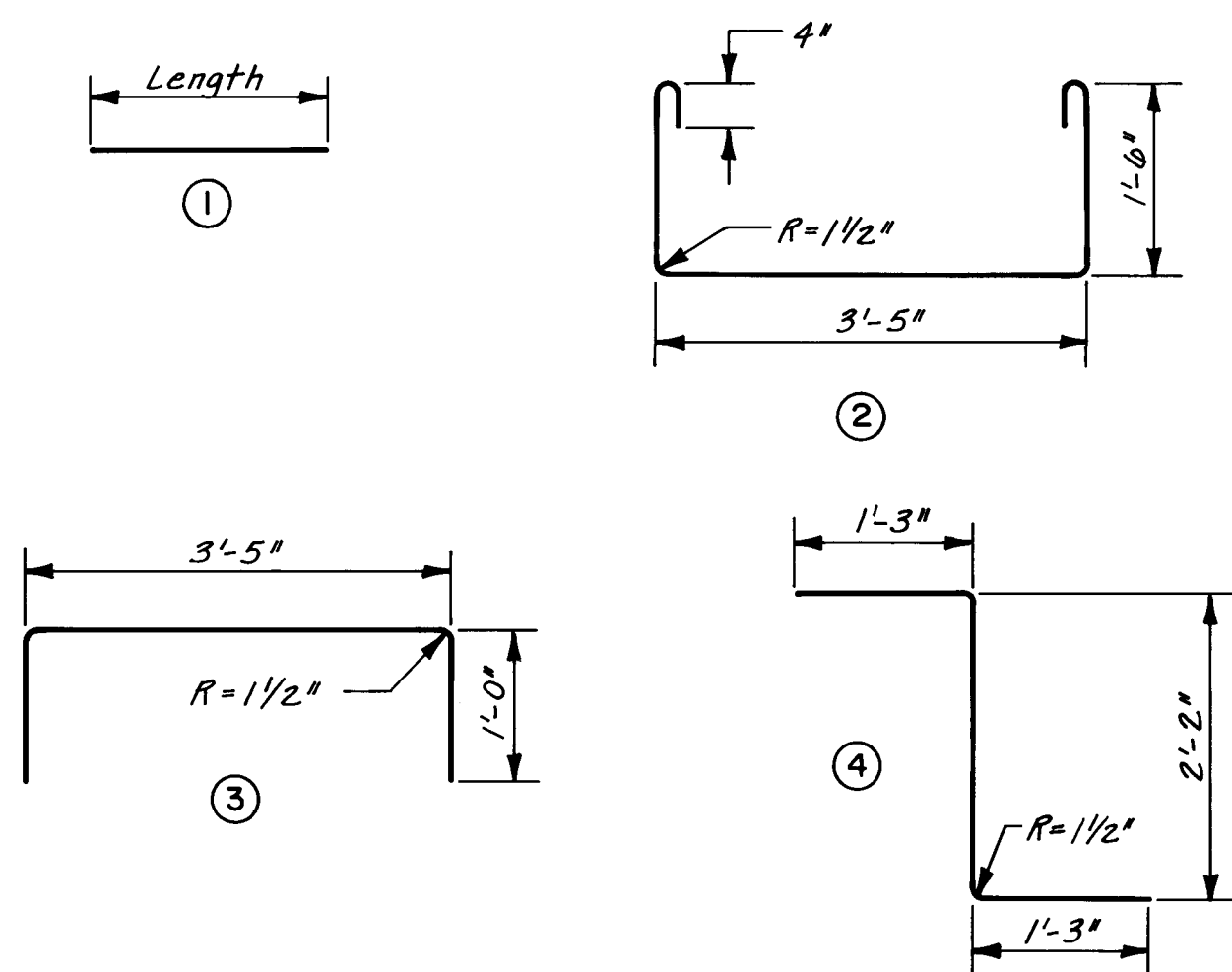
NOTE: ALL WORK SHOWN ON THIS SHEET IS INCLUDED IN SCHEDULE A AND SCHEDULE B



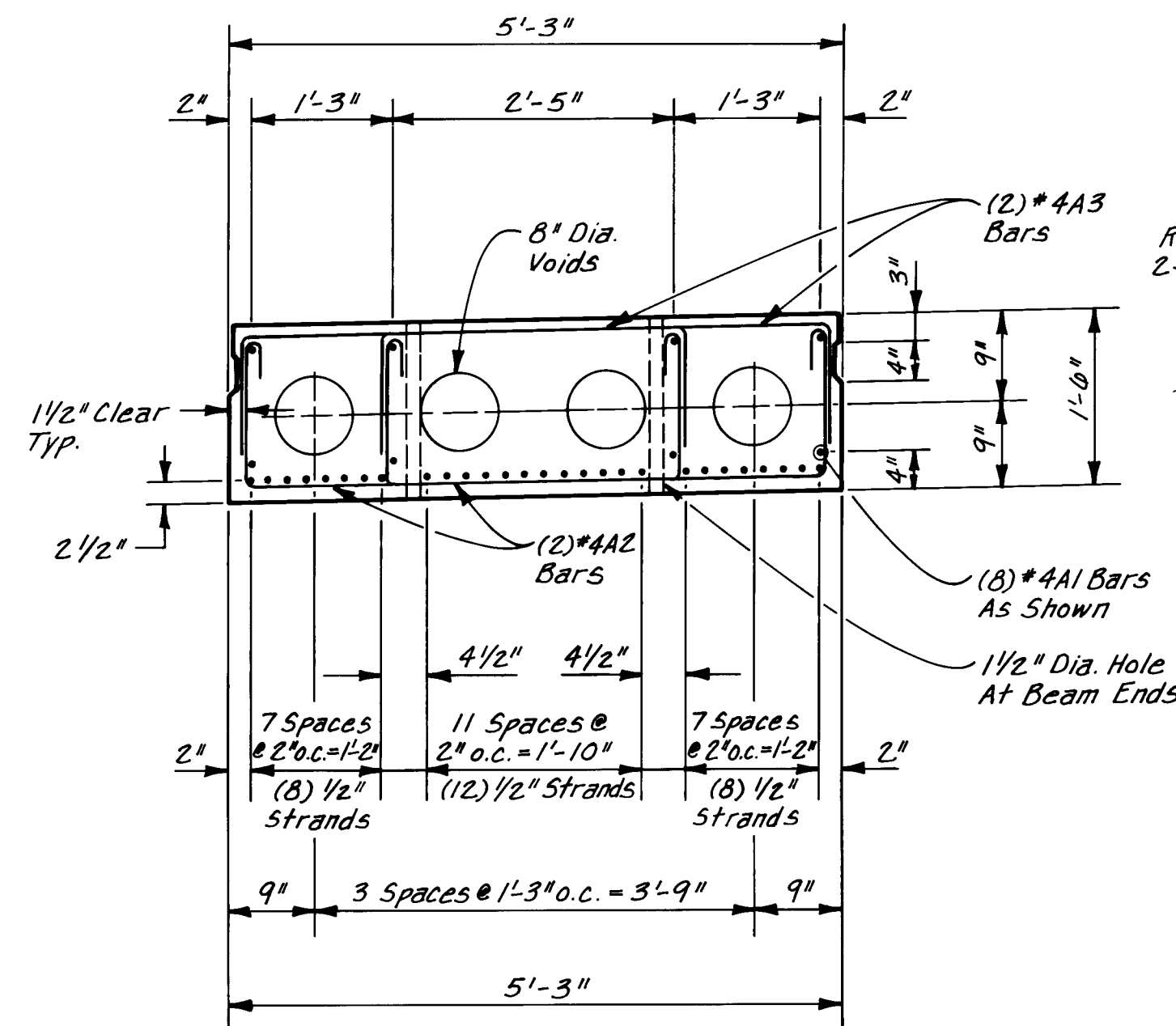
SIDEWALK & EXTERIOR BEAM DETAIL

EXTERIOR BEAM (2) REQUIRED

BAR	TYPE	SIZE	LENGTH	NO. REQ'D
#4A1	1	4	44'-9"	8
#4A2	2	4	7'-1"	100
#4A3	3	4	5'-5"	100
#4A4	4	4	4'-8"	100
#4A5	1	4	7'-9"	100
#4A6	1	4	44'-9"	14



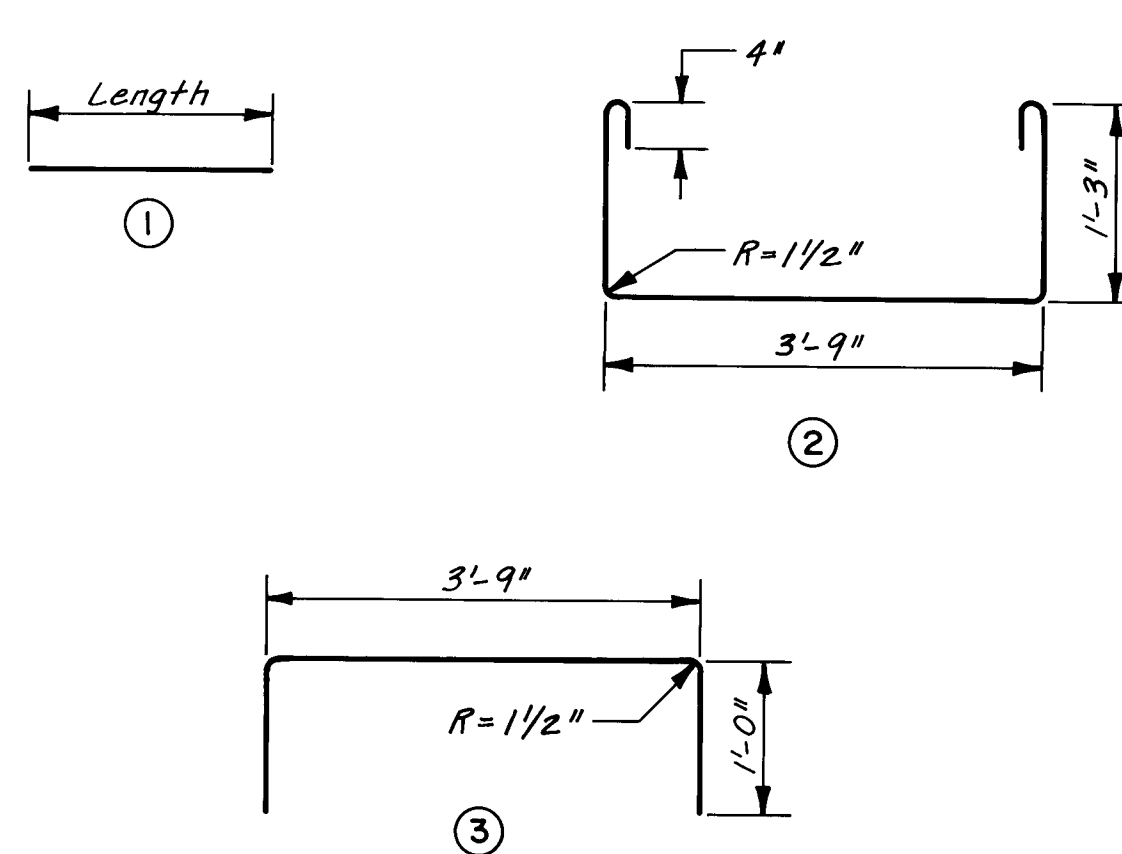
BAR BENDING DIAGRAM (EXTERIOR BEAMS)



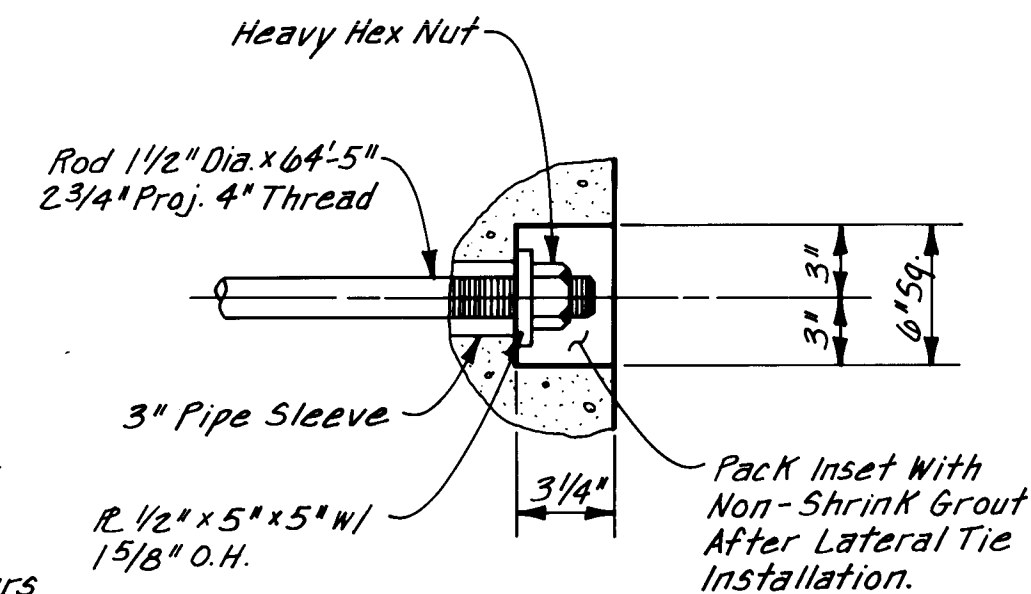
INTERIOR BEAM DETAIL

INTERIOR BEAM (10) REQUIRED

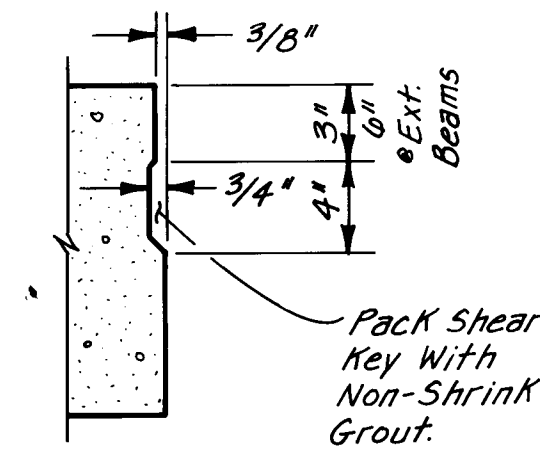
BAR	TYPE	SIZE	LENGTH	NO. REQ'D
#4A1	1	4	44'-9"	8
#4A2	2	4	6'-11"	100
#4A3	3	4	5'-9"	100



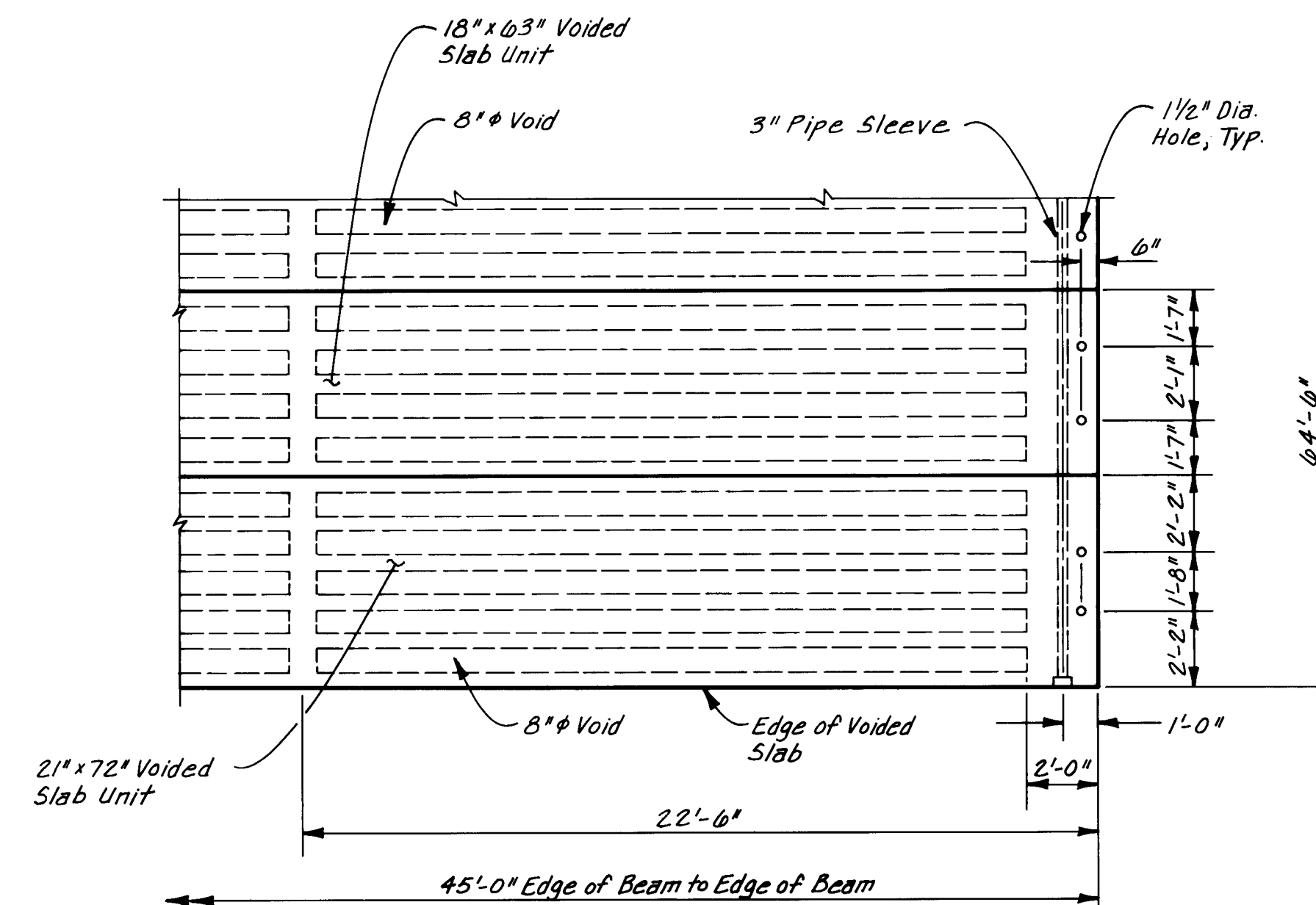
BAR BENDING DIAGRAM (INTERIOR BEAMS)



LATERAL TIE AND INSET



SHEAR KEY DETAIL

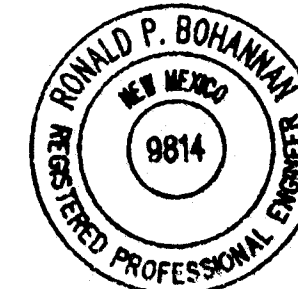


PARTIAL PLAN

26 3840.90/1193

RECORD DRAWING

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Ronald P. Bohannon 1/21/92
Ronald P. Bohannon
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Albuquerque, NM 87109 • (505) 881-5357

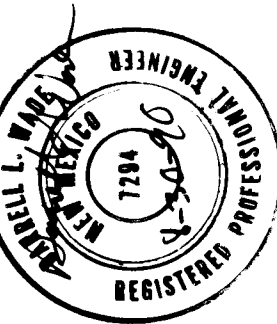
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: LOUISIANA BLVD./DOMINGO BACA ARROYO CROSSING
BRIDGE VOIDED SLAB BEAM DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	R. Bohannon	11/5/90			
Trans. Dev	R. Bohannon	10-10-90			
Utility Dev	R.W. Kays	10-10-90			
HYDRO	Steve Robey	10/10/90			
DRAWING NO.	3840	MAP NO.	D-19	SHEET	11 OF 27



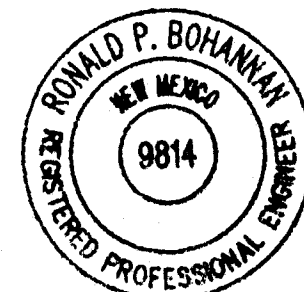
(LOOKING SOUTH UPSTATION)



(LOOKING SOUTH UPSTATION)

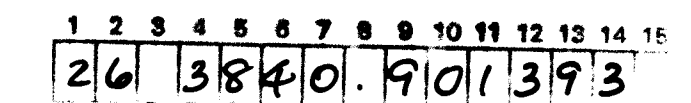


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Ronald P. Bohannon 1/21/92
Ronald P. Bohannon
N.M.P.E. No. 9814

PLAN VIEW OF PILE



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Civil • Structural • Transportation
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Albuquerque, NM 87109 • (505) 881-5357

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: LOUISIANA BLVD./DOMINGO BACA ARROYO CROSSING
ABUTMENT NO. 2
BRIDGE AND WINGWALL DETAILS

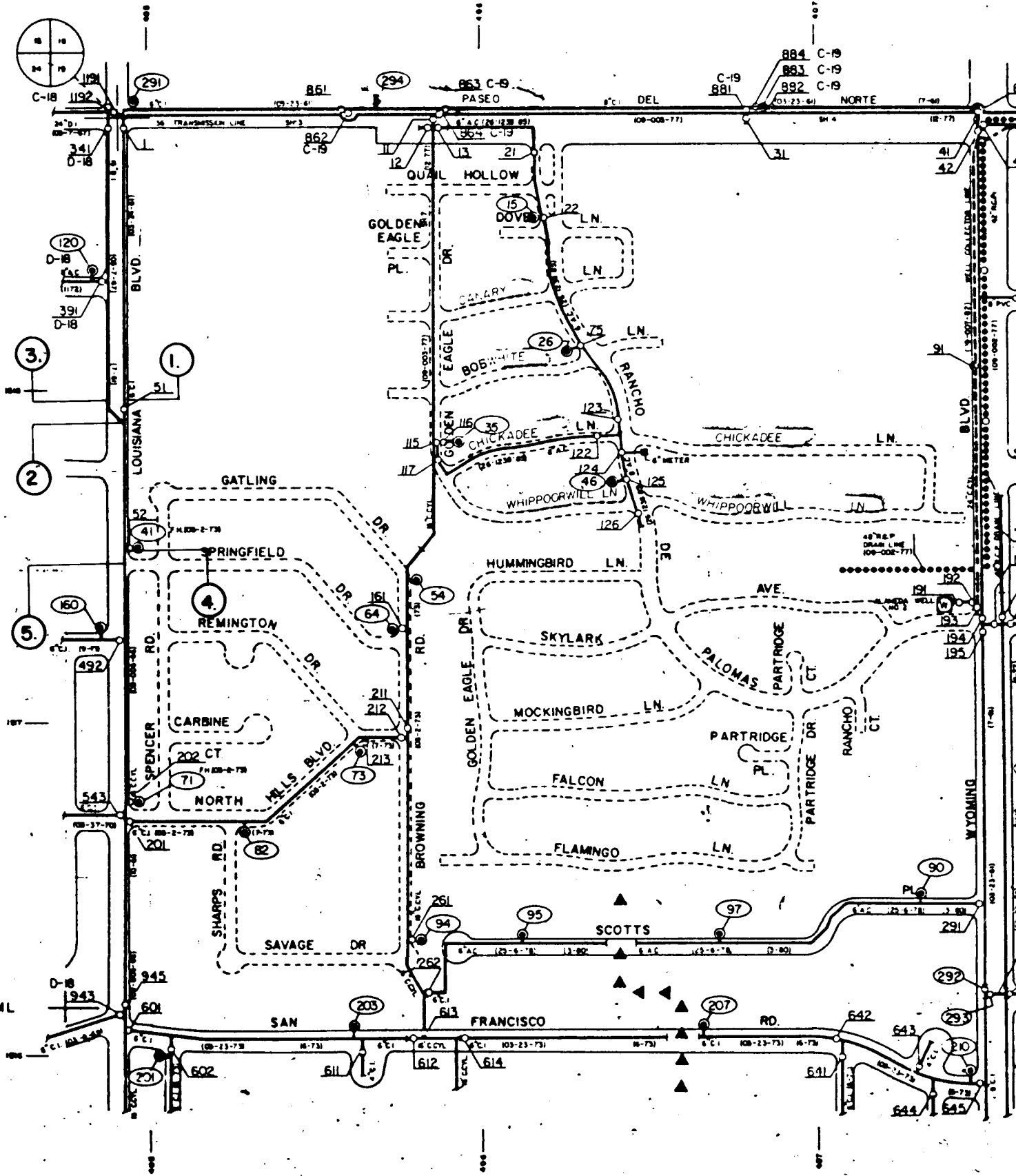
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chair	<i>Rogers</i>	<i>4/5/00</i>			
Trans. Dev.	<i>R. W. Kane</i>	<i>10-10-99</i>			
Utility Dev.	<i>R. W. Kane</i>	<i>10-10-99</i>			
<i>7/1/00</i>	<i>Steve Bohling</i>	<i>10/10/99</i>			
DRAWING		WAR NO.	SHEET		OF

DRAWING NO.	3840	MAP NO.	D-19	SHEET	13	OF	27
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WATER SHUTOFF PLAN

GENERAL NOTES:

1. CONTRACTOR SHALL SCHEDULE AND COORDINATE PAVEMENT STRIPING PLAN AND ALL WATER SYSTEM SHUTOFFS AND CONNECTIONS WITH CITY OF ALBUQUERQUE WATER SYSTEMS AT 857-8200A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO PLANNED WATER SHUTOFF DATE.
2. ONLY CITY OF ALBUQUERQUE WATER SYSTEMS PERSONNEL SHALL OPERATE WATER SYSTEM VALVES AND HYDRANTS. CITY OF ALBUQUERQUE PERSONNEL WILL IMPLEMENT THE WATER SHUTOFF PLAN FOR THE CONTRACTOR BY OPENING AND CLOSING THE REQUIRED VALVES BEFORE AND AFTER THE CONNECTION IS MADE.
3. IN THE EVENT EMERGENCY SHUTOFFS ARE REQUIRED, DUE TO LEAKS OR BREAKS IN WATERLINES RESULTING FROM CONSTRUCTION ACTIVITY, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY OF ALBUQUERQUE WATER SYSTEMS ENGINEER. CONTRACTOR SHALL COOPERATE FULLY WITH THE WATER SYSTEMS DEPARTMENT. CONTRACTOR SHALL NOTIFY ALL AFFECTED USERS OF THE EMERGENCY SHUTOFF, AND THE ESTIMATED TIME SERVICE WILL BE RESUMED.

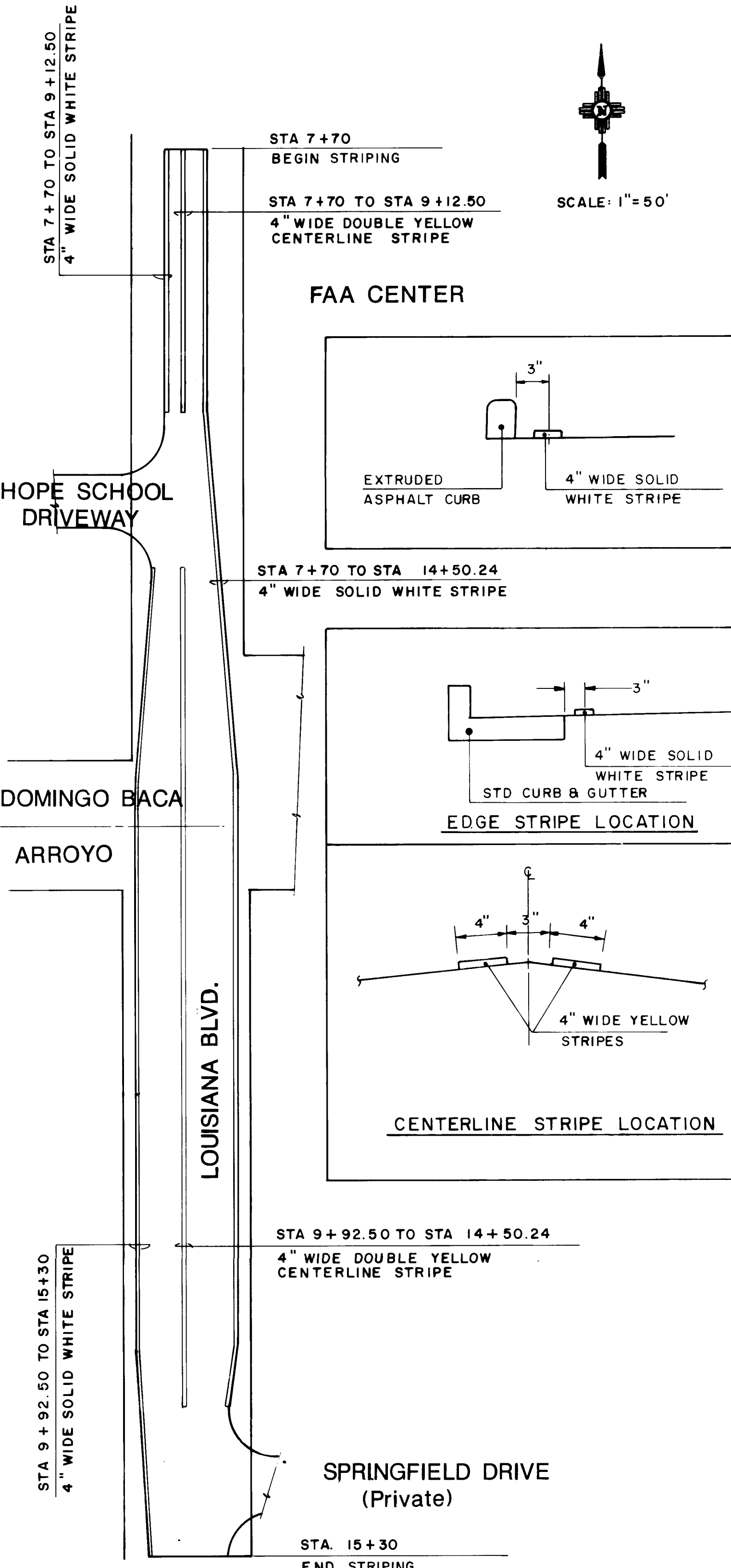


CONNECTIONS:

- ① NEW 6" W TO EXISTING 6" W - CLOSE VALVES 1 AND 51. NOTIFY EFFECTED USERS. CUT EXISTING 6" LINE AND INSTALL 90° BEND, 40'6" PVC AND 6" GATE VALVE.
- ② NEW 16" W TO EXISTING 6" W - CLOSE VALVES 51, 201, 341, 391, 492, 543, 945. NOTIFY EFFECTED USERS. MAKE CONNECTION TO EXISTING 16" W.
- ③ NEW 6" W TO EXISTING 16" W - WITH 2 SHUTOFF STILL IN PLACE, MAKE CONNECTION TO EXISTING 16" W.
- ④ NEW 6" W TO EXISTING FIRE HYDRANT LEG - WITH 2 SHUTOFF STILL IN PLACE, REMOVE 6" FIRE HYDRANT LEG FROM EXISTING 16" W AND RECONNECT TO NEW 6" FIRE HYDRANT LEG
- ⑤ NEW 16" W TO EXISTING 16" C. CYL. W - WITH 2 SHUTOFF STILL IN PLACE, MAKE CONNECTION TO EXISTING 16" W.

NOTE: ALL WORK SHOWN ON THIS SHEET IS INCLUDED IN SCHEDULE A AND SCHEDULE B

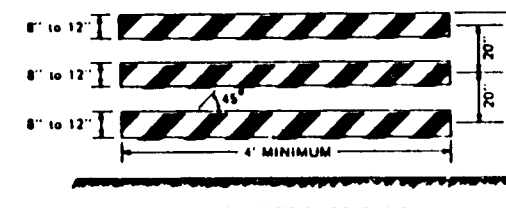
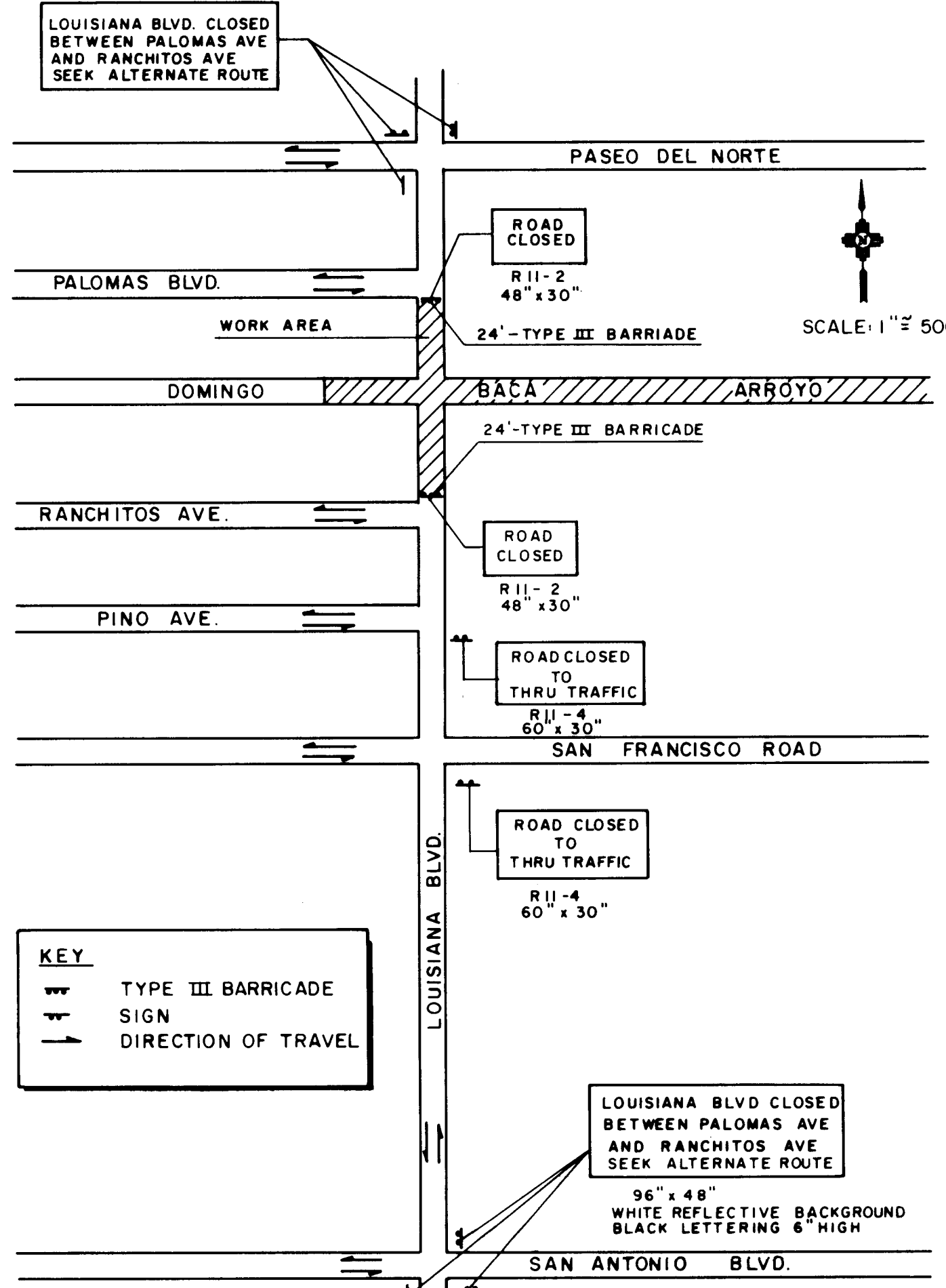
PERMANENT PAVEMENT MARKING PLAN



TRAFFIC CONTROL PLAN

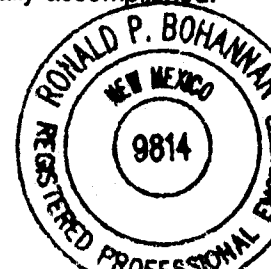
GENERAL NOTES:

1. CONTRACTOR SHALL ADHERE TO SECTION 19 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR CONSTRUCTION, 1986, AND TRAFFIC HANDLING DETAILS SHOWN HEREIN.
2. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL BUSINESS AND PRIVATE RESIDENTS AT ALL TIMES.



RECORD DRAWING

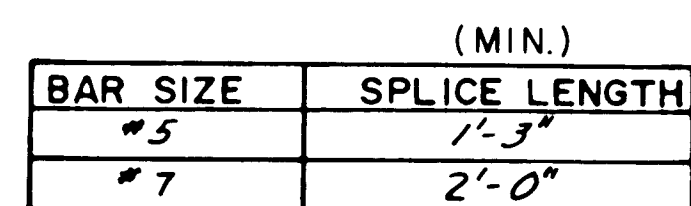
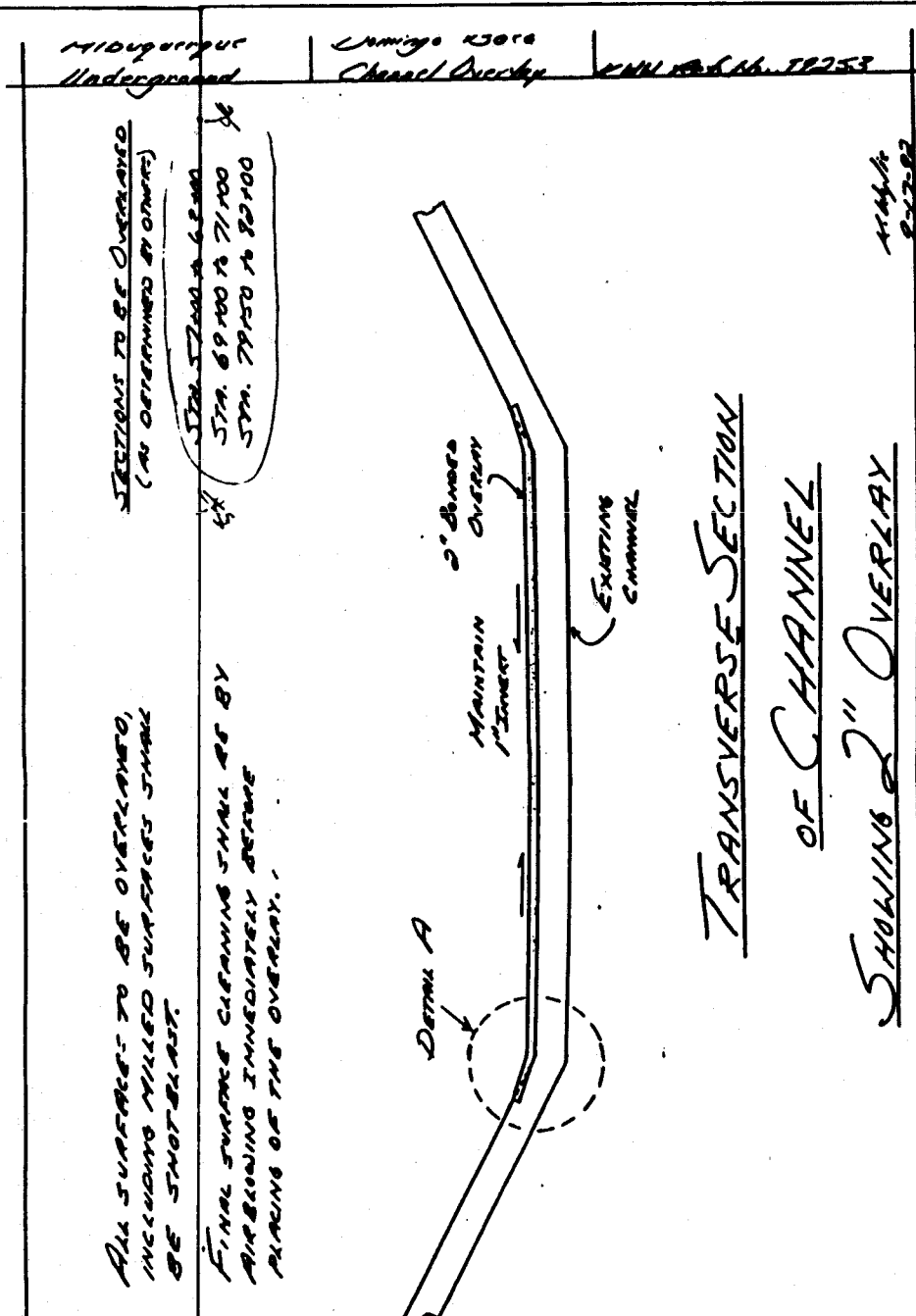
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Ronald P. Bohannon 1/21/96
Ronald P. Bohannon
N.M.P.E. No. 9814

[illegible]

Midwayburg	Camigo 23018	
Underground	Channel Overlay	ENR Feb 16, 1975

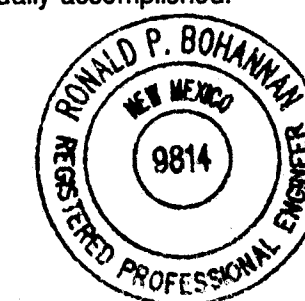


TYPICAL CHANNEL SECTION

CHANNEL FLOOR REWORKED TO MEET
SPECIFICATIONS FOR DEPTH (CONTRACTORS PROBLEM)

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Added Overlay Section 7/2/93 ~~RM~~

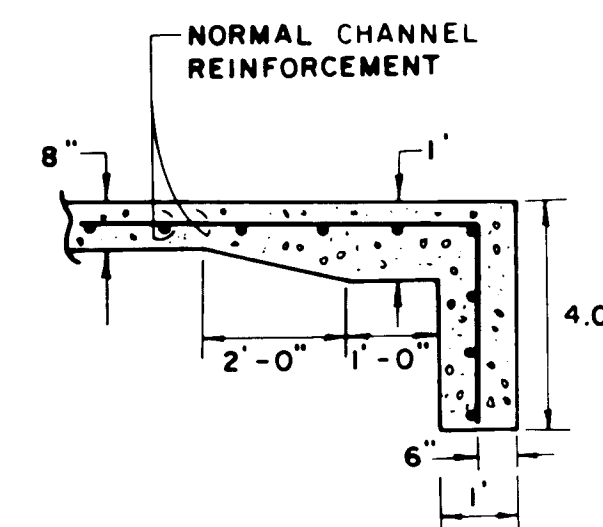


1000 11/21/60

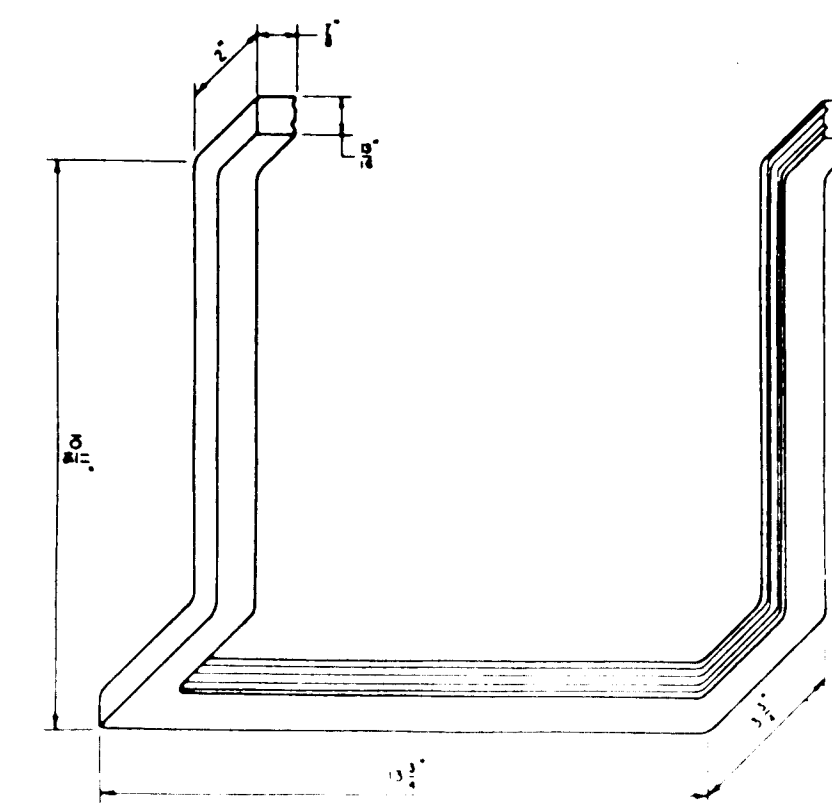
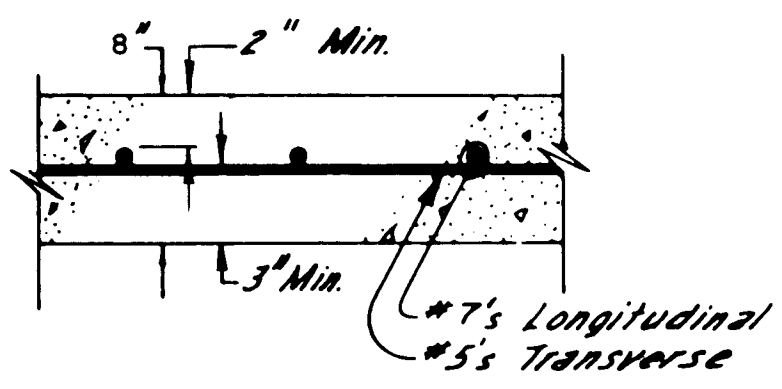
Ronald P. Bohanna



Scale: 1" = 2'



CHANNEL REINFORCING CLEARANCE

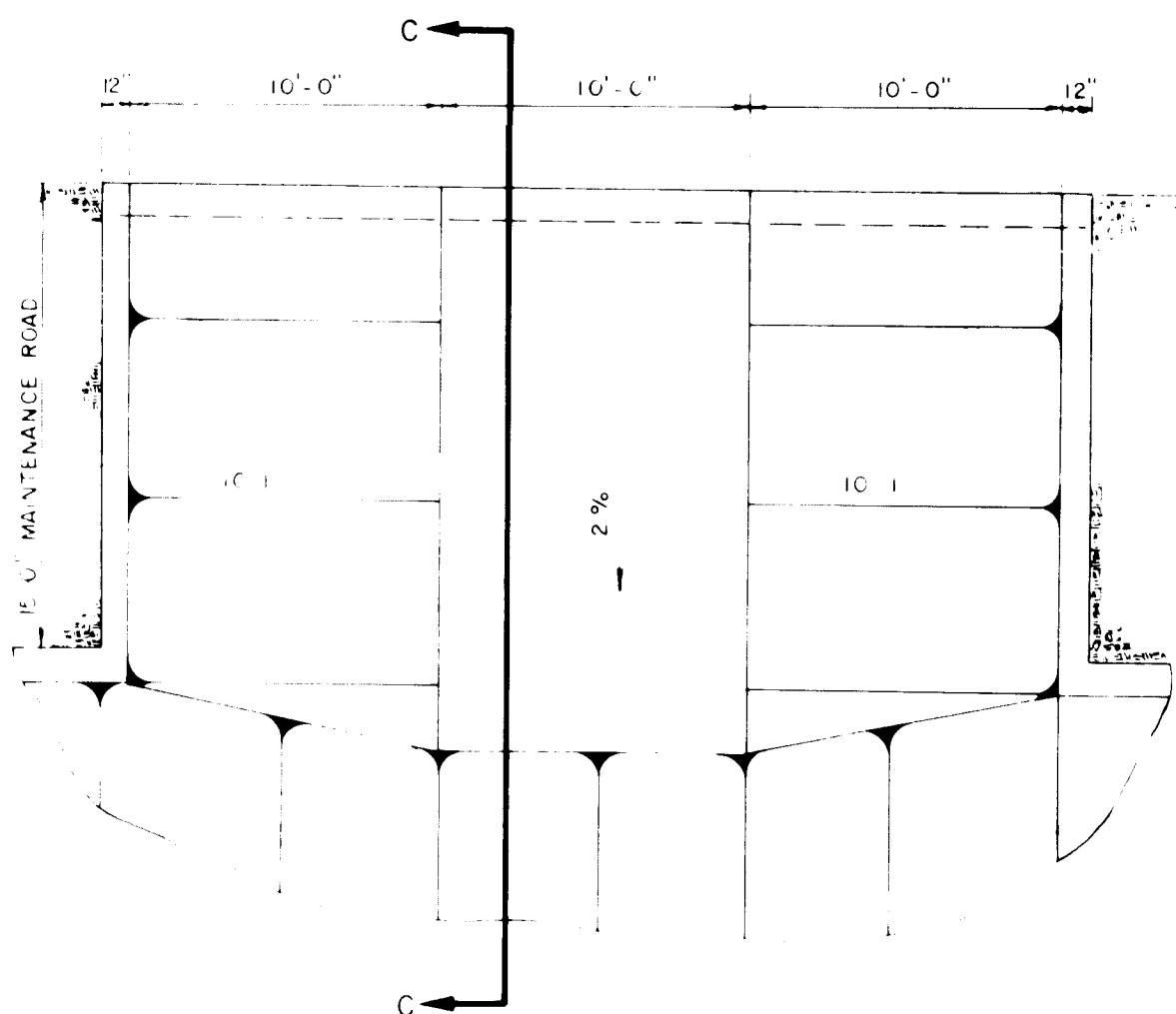
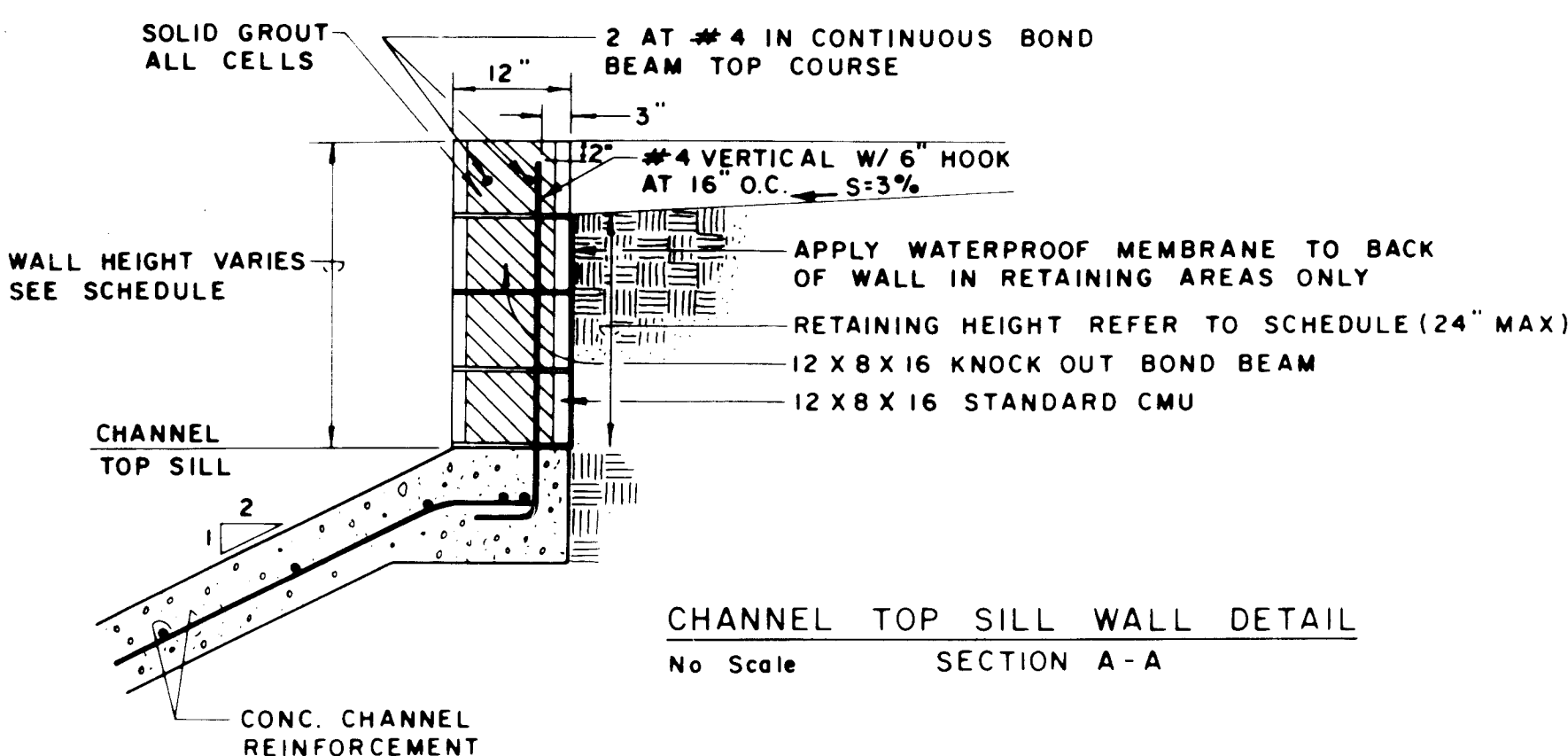


USED APPROVED EQUAL

Technical drawing of a retaining wall cross-section showing reinforcement details. The wall has a total height of 12 feet. Reinforcement includes 2 #4 bars in the top course, #4 vertical bars with 16-inch spacing and 3% hook, and 12 x 8 x 16 inch knock-out bond beams. A waterproof membrane is applied to the back of the wall. The drawing also shows a solid grout fill for all cells and a retaining height of 24 inches maximum.

Labels and dimensions:

- SOLID GROUT ALL CELLS
- 12"
- 2 AT #4 IN CONTINUOUS BOND BEAM TOP COURSE
- 3"
- #4 VERTICAL W/ 6" HOOK AT 16" O.C. $S \leq 3\%$
- WALL HEIGHT VARIES SEE SCHEDULE
- APPLY WATERPROOF MEMBRANE TO BACK OF WALL IN RETAINING AREAS ONLY
- RETAINING HEIGHT REFER TO SCHEDULE (24" MAX)
- 12 X 8 X 16 KNOCK OUT BOND BEAM
- 12 X 8 X 16 STANDARD CMU



RUNDOWN AT MAINTENANCE ROAD

NOTES:

- 1. ZERO DIMENSION IN WALL HEIGHT COLUMN INDICATES NO WALL REQUIRED.**
- 2. SEE CROSSING STRUCTURE PLANS FOR WINGWALLS FROM STA. 57+44.85 TO STA. 58+42.85**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
26			38	40	.	90	15	93						

EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS

5643 PARADISE BLVD NW A80 N.M. (505) 898-8021

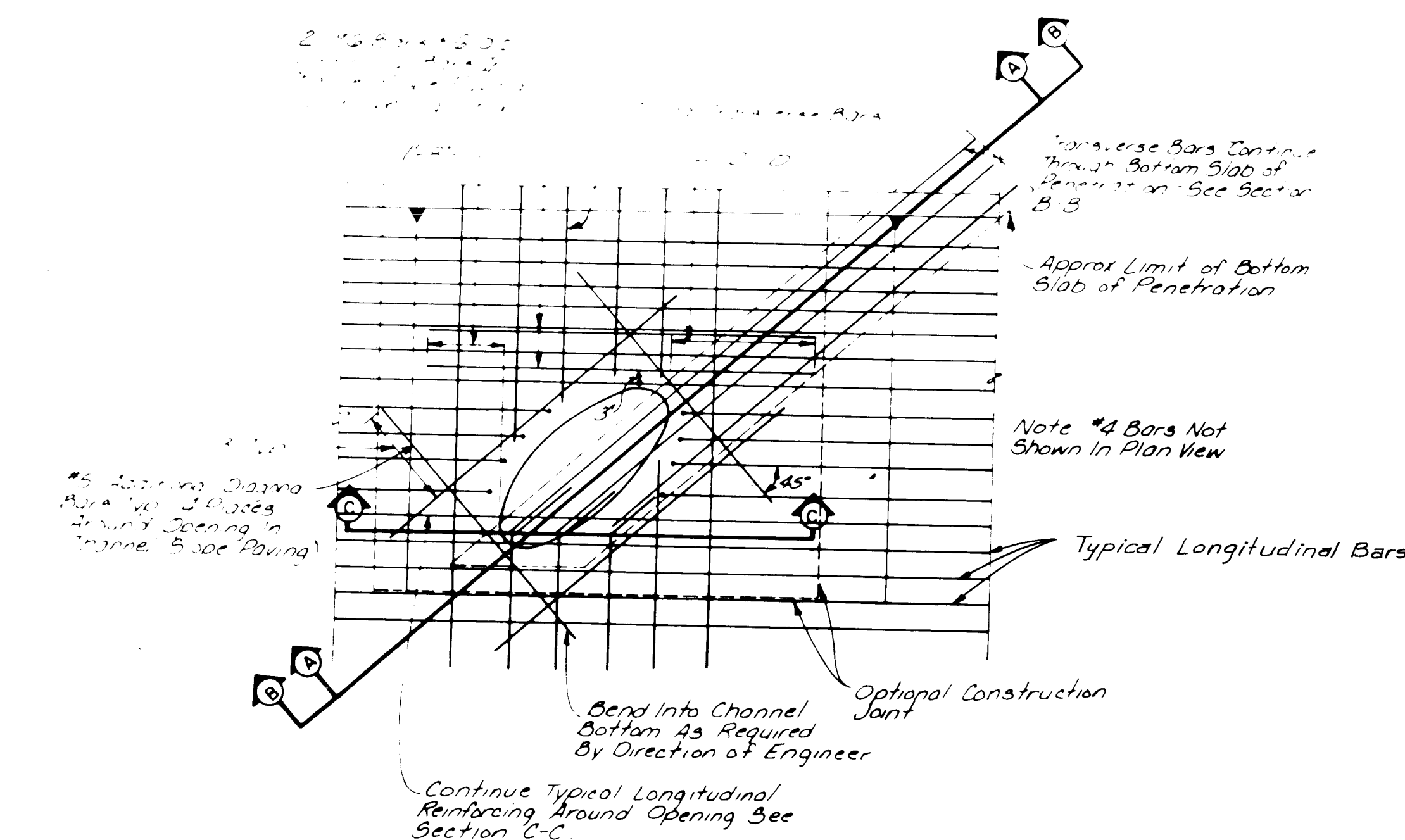
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE LOUISIANA BLVD CROSSING/DOMINGO BACA ARROYO
TYPICAL CHANNEL DETAILS

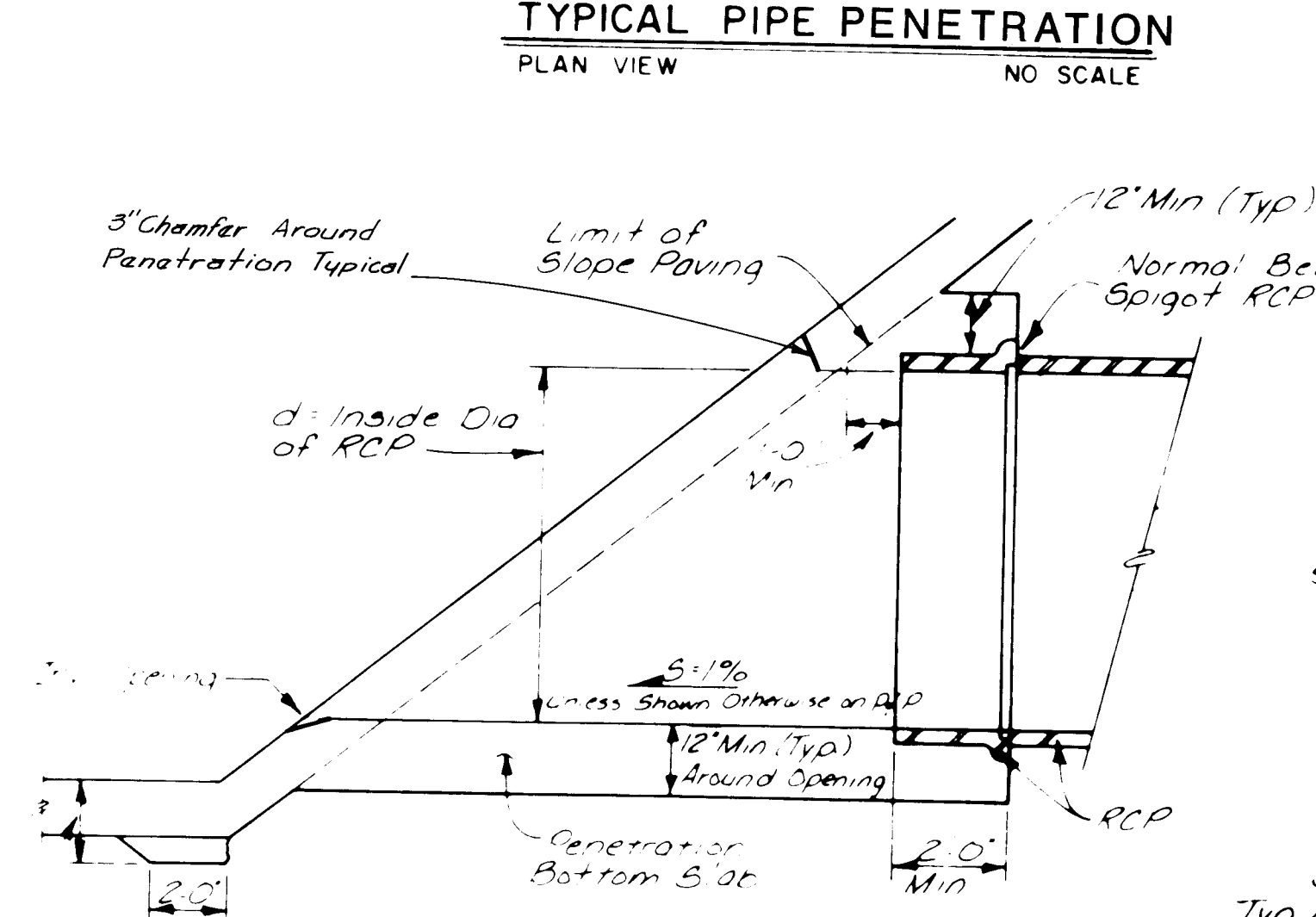
DATE	APPROVALS	ENGINEER	DATE
11/1/70			
10-10-70			
10-10-70			
10/10/70			

3840 D-19 15 OF 27

NOTE: PIPE PENETRATION DETAILS SHOWN BELOW ARE FOR USE IN SCHEDULE A AND SCHEDULE B WORK.

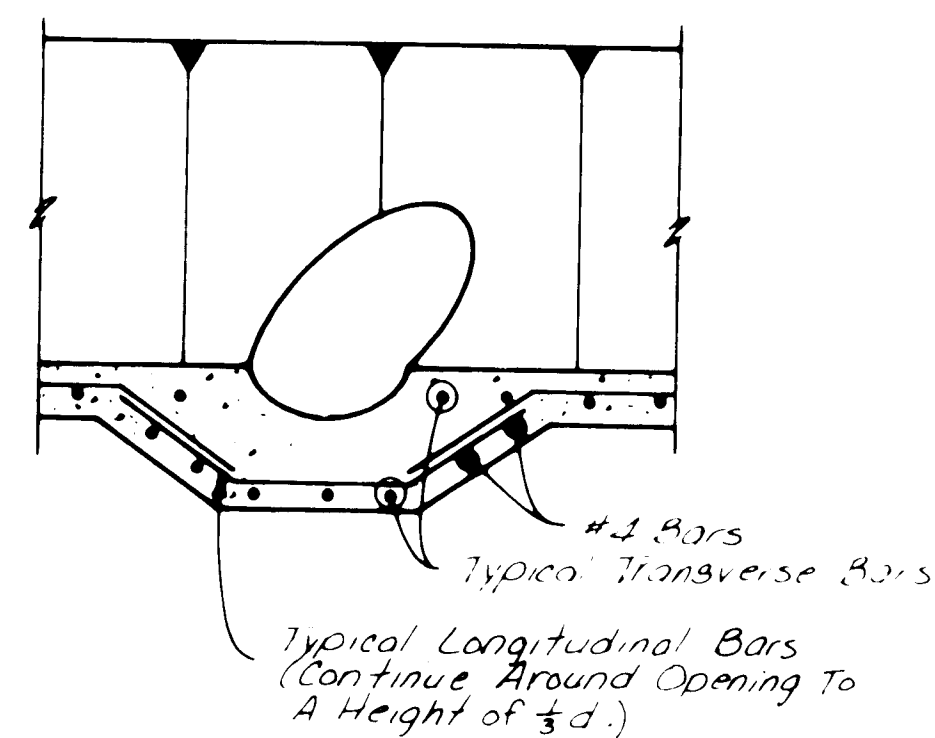


TYPICAL PIPE PENETRATION
PLAN VIEW NO SCALE

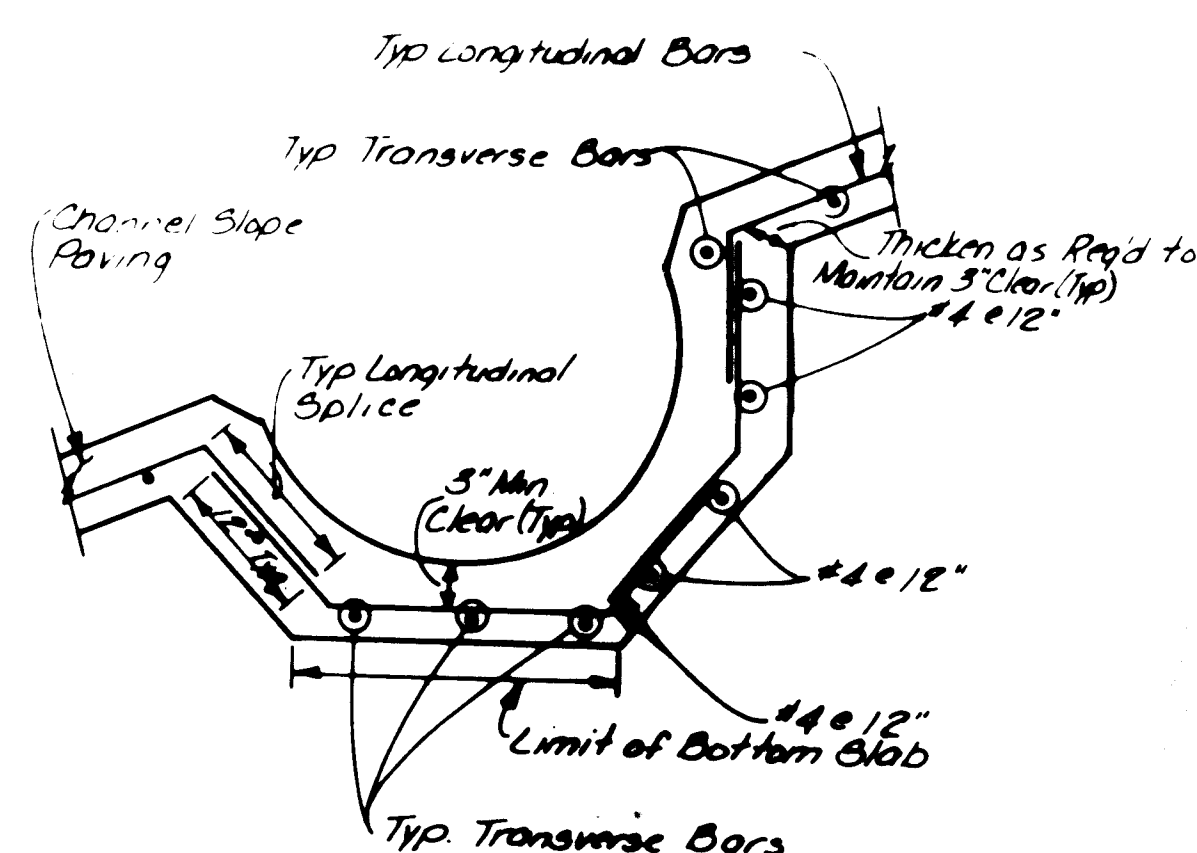


SECTION A-A
NO SCALE

Thicken Bottom Slab Paving to 12" When Inv Opening Is Less Than 6" Above Profile Grade of Channel



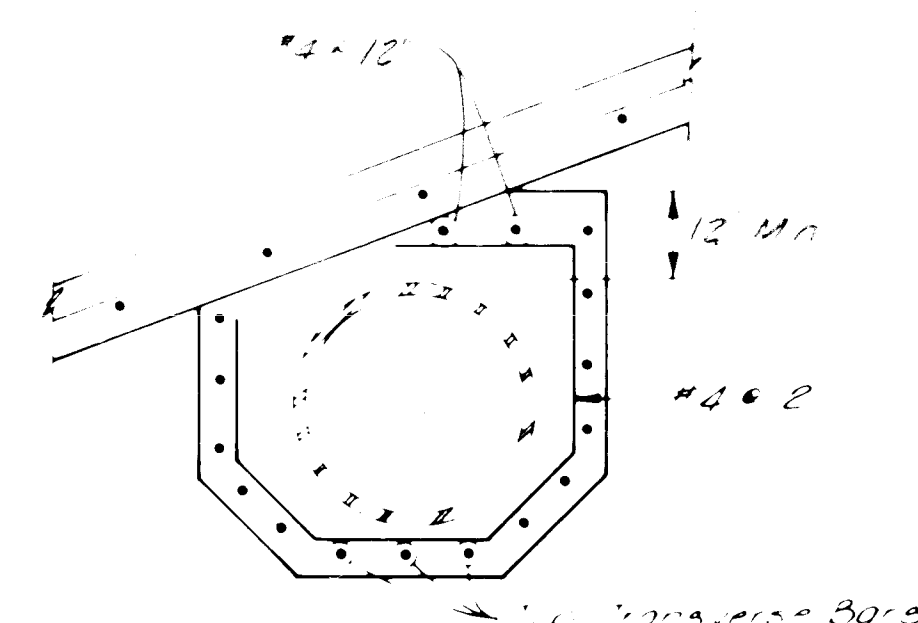
SECTION C-C
NO SCALE



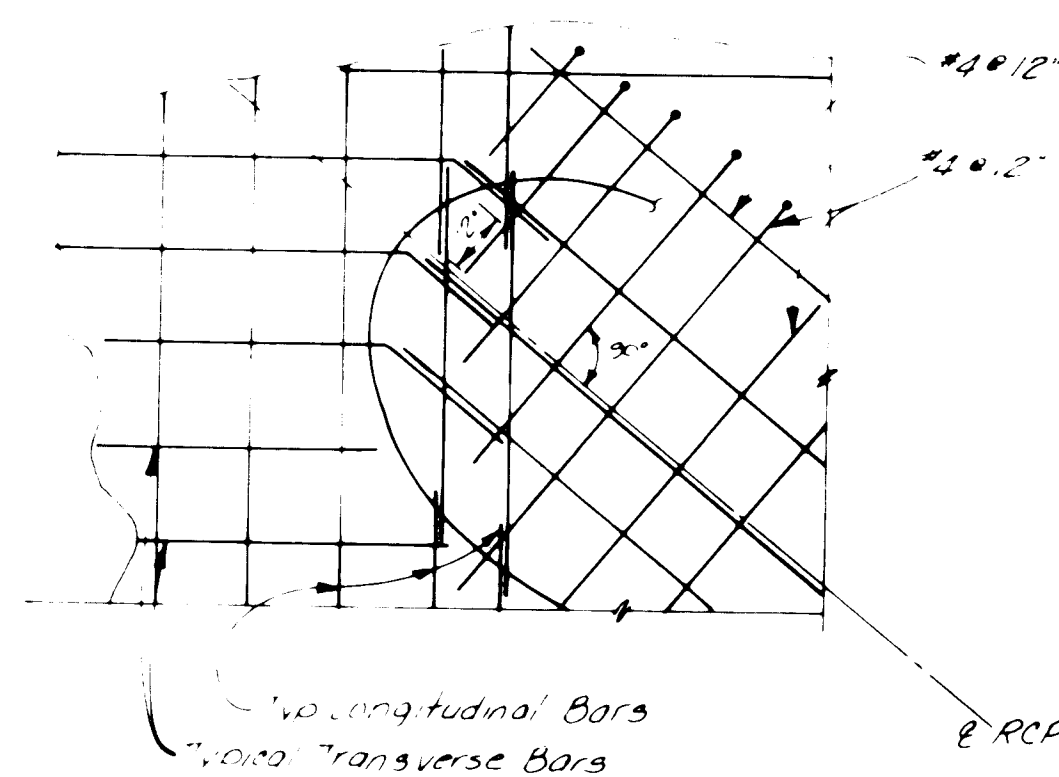
SECTION D-D
NO SCALE

PIPE PENETRATION
PLAN VIEW NO SCALE

Note: For payment purposes a work for pipe penetration shall be considered RCP stubout and payment per LF will be made for the length as shown.

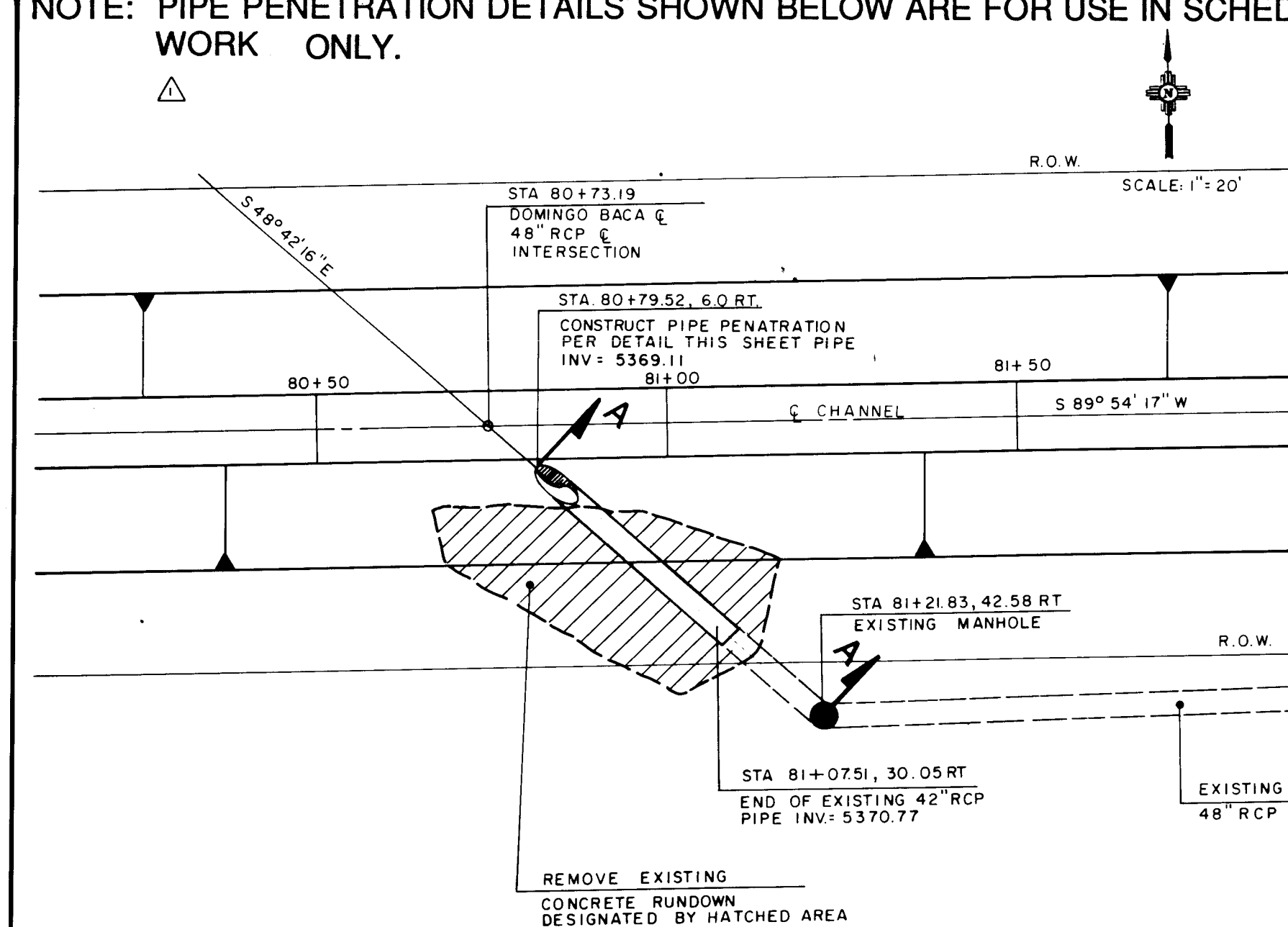


SECTION E-E
NO SCALE

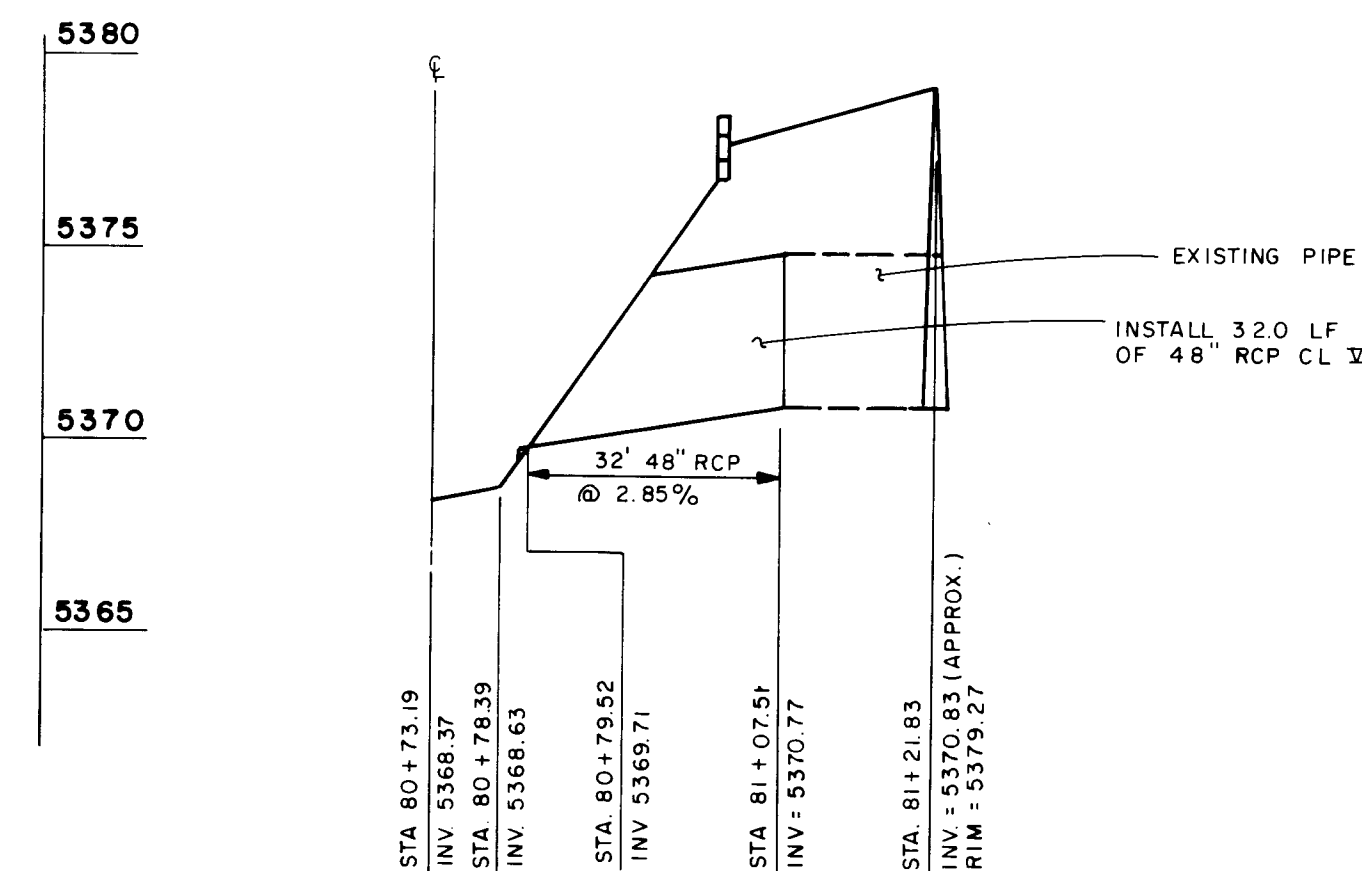


SECTION F-F
NO SCALE

NOTE: PIPE PENETRATION DETAILS SHOWN BELOW ARE FOR USE IN SCHEDULE A WORK ONLY.



PIPE PENETRATION
STA. 80+79



SECTION A-A

1 2 3 4 5 6 7 8 9 10 11 12
26 32 40 90 16 93

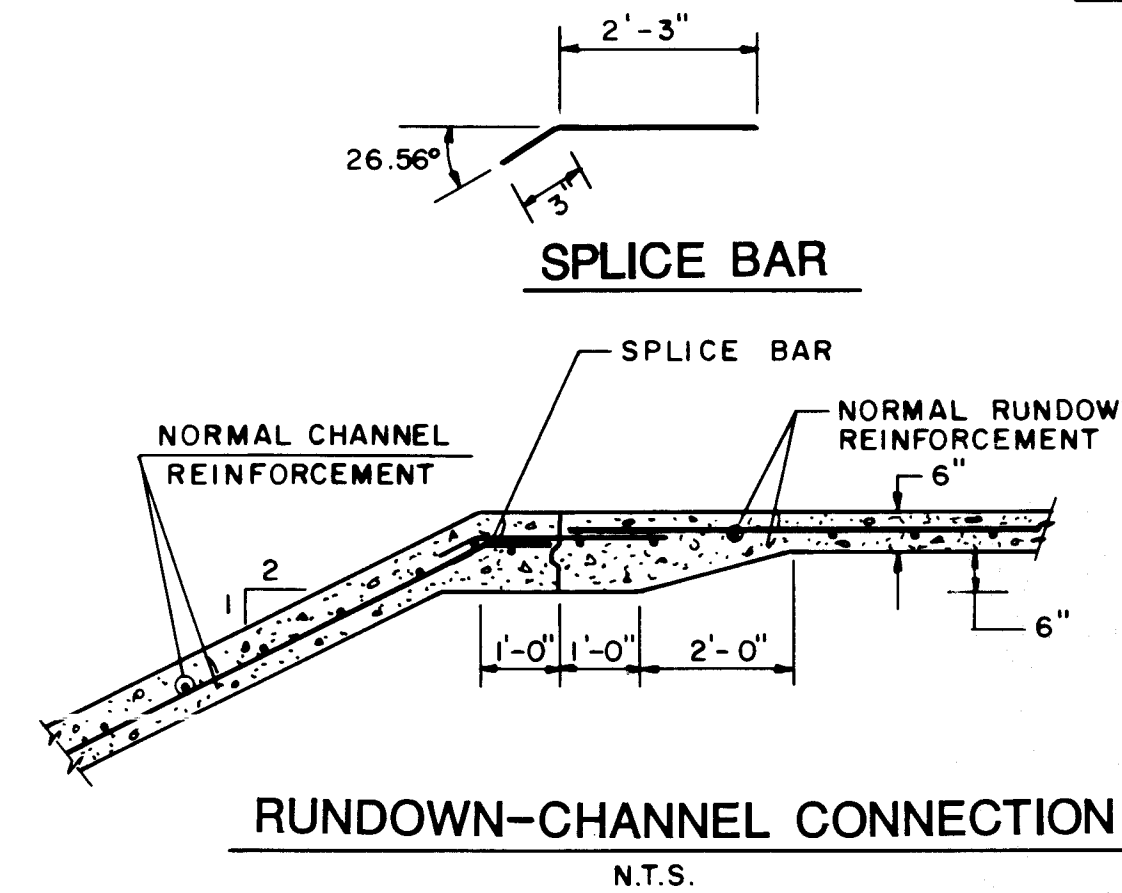
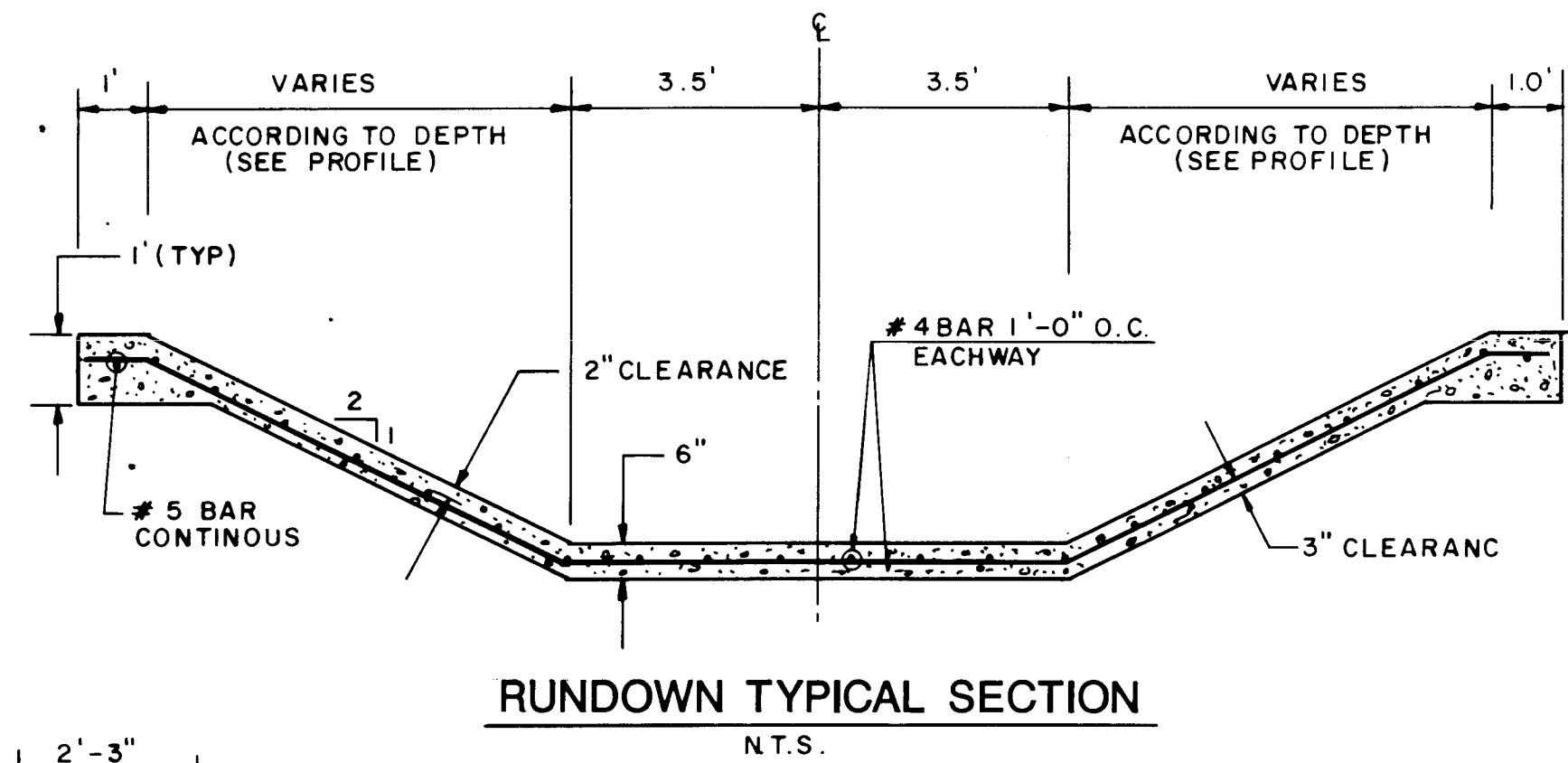
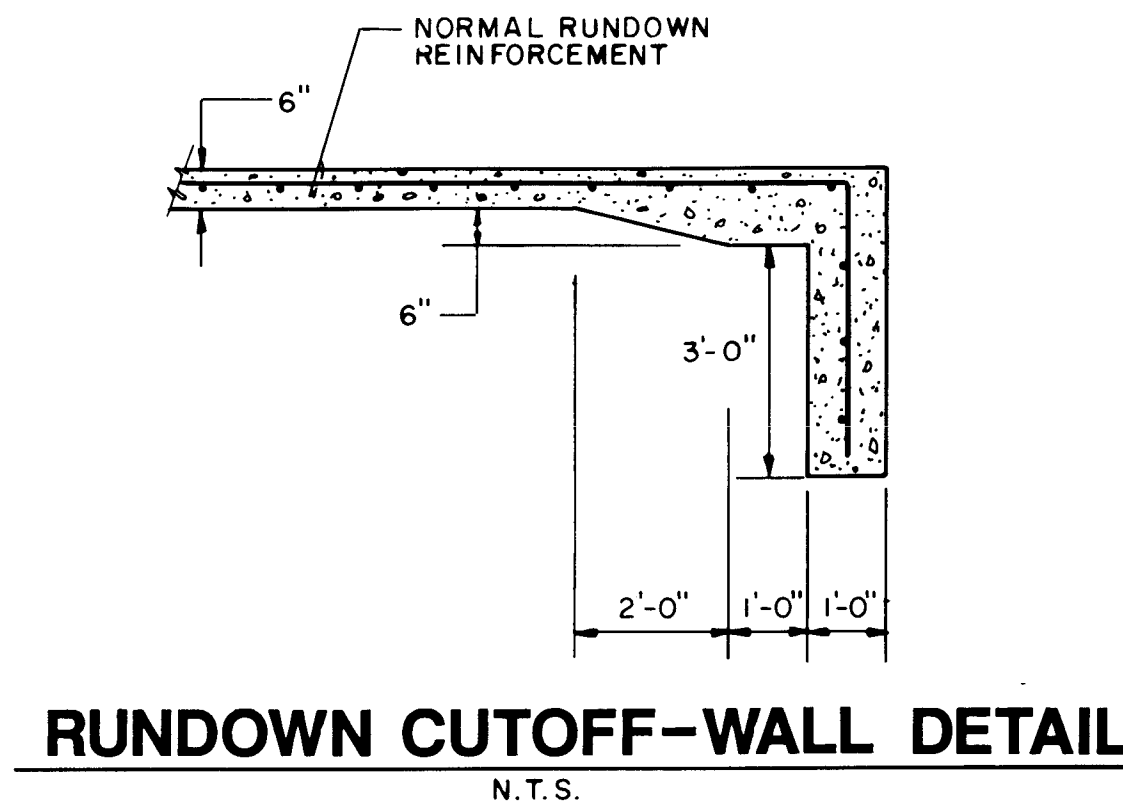
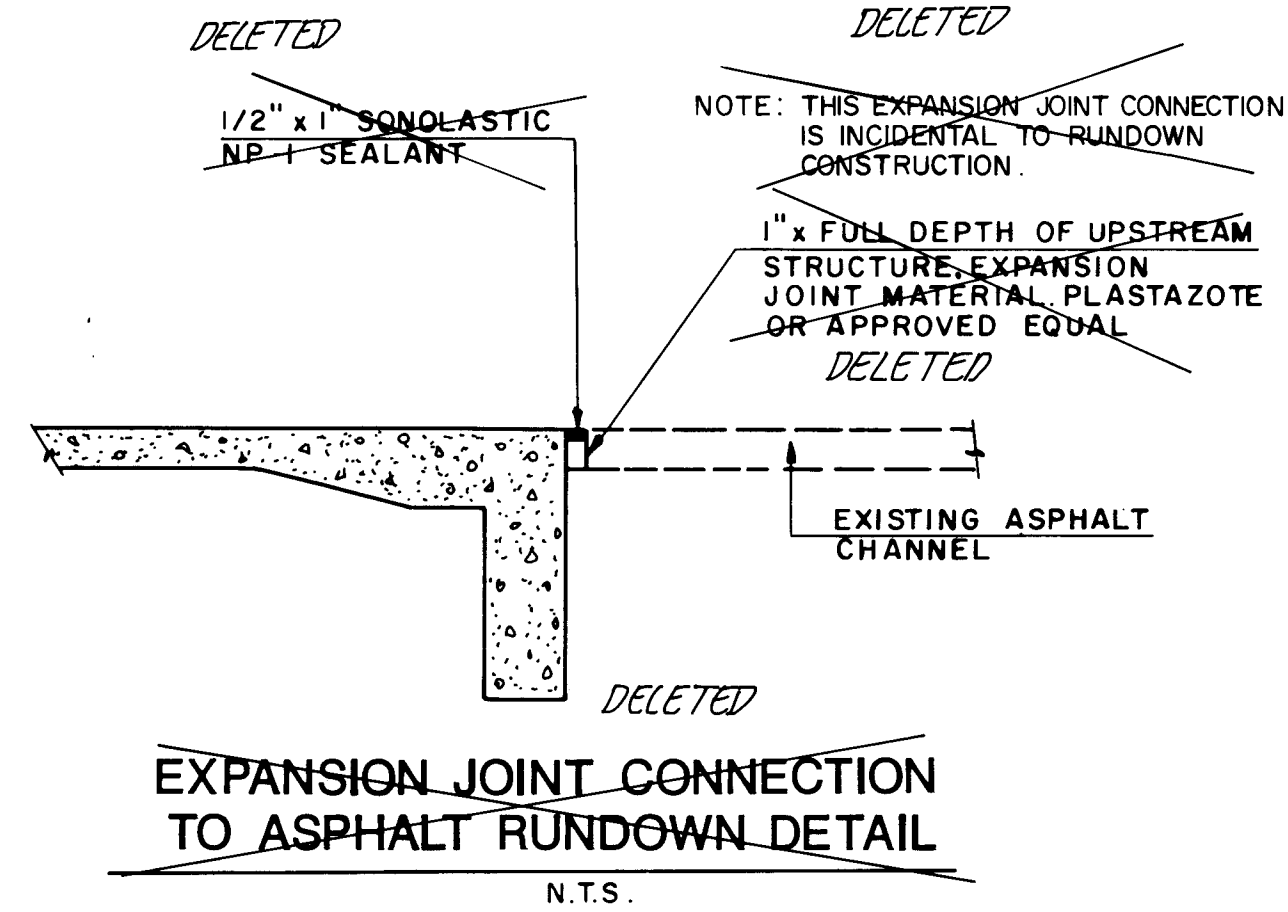
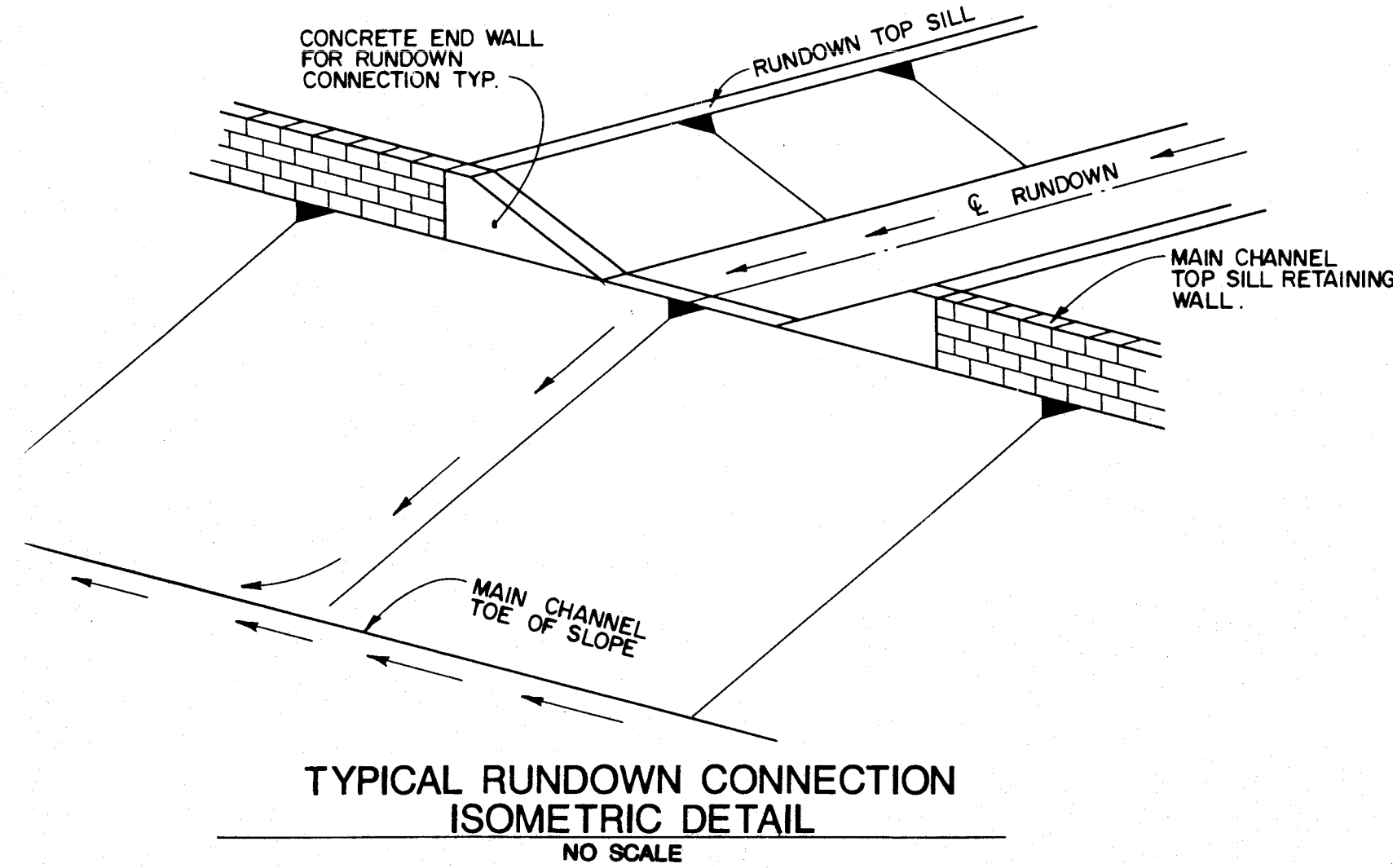
EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
5643 PARADISE BLVD. N.W. APO. N.M. (505) 898-8021

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

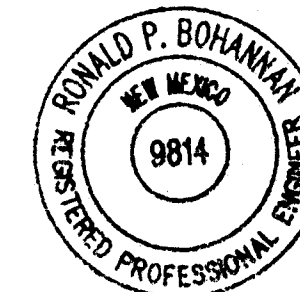
TITLE LOUISIANA BLVD CROSSING/DOMINGO BACA ARROYO
PIPE PENETRATION DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG. CHG.	R. Bohannon	11/5/90	APPROVALS		
TRANS. DES.	R. Bohannon	10-10-90	ENGINEER		
PLAT. DES.	R.W. Kane	10-10-90	DATE		
DESIGN	Steve Bohannon	10/10/90	REVISIONS		
DRAWING NO.	3840	MAP NO.	D-19	SHEET	16 27

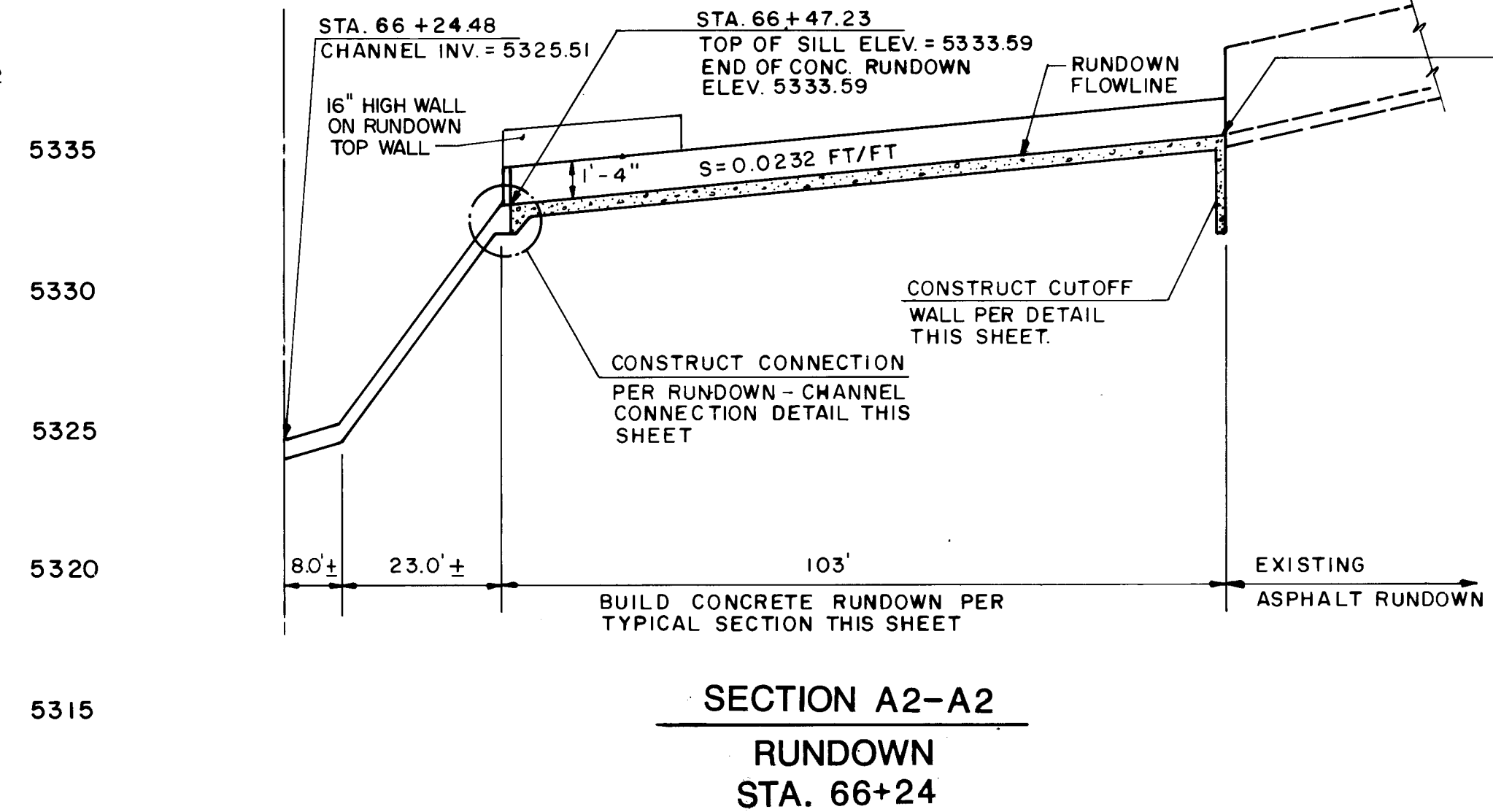
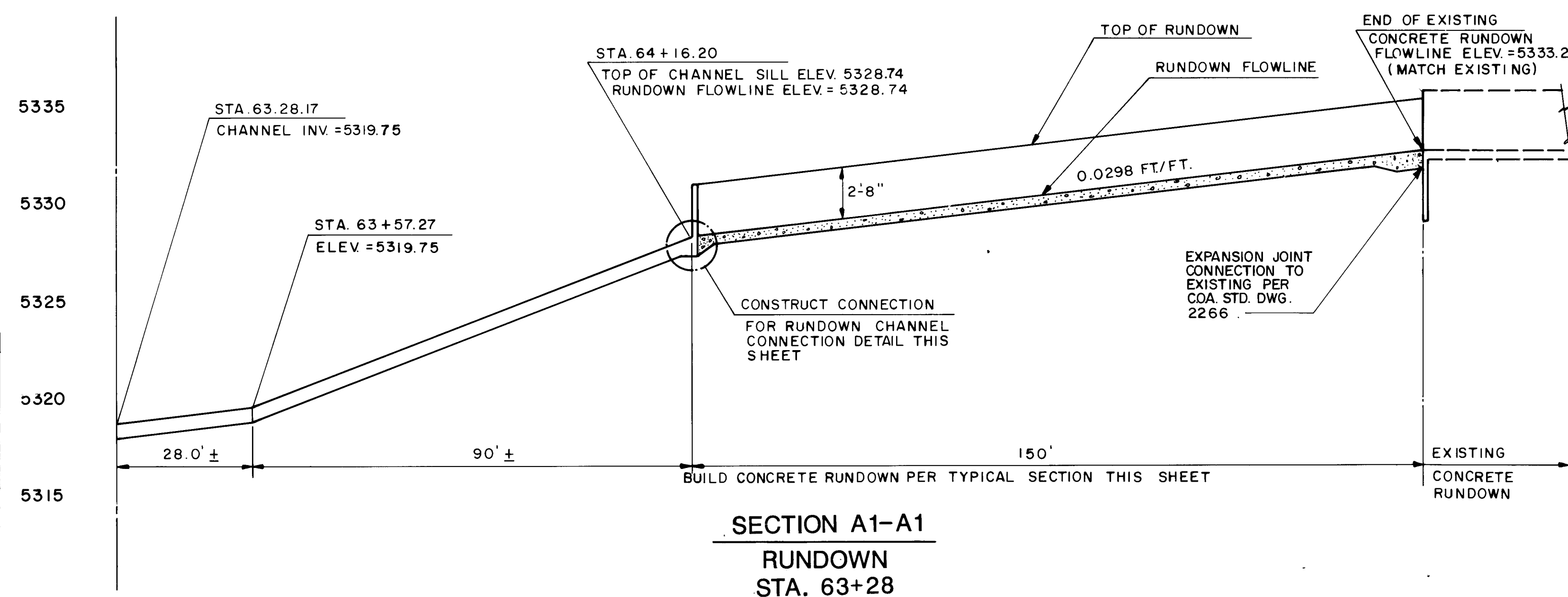
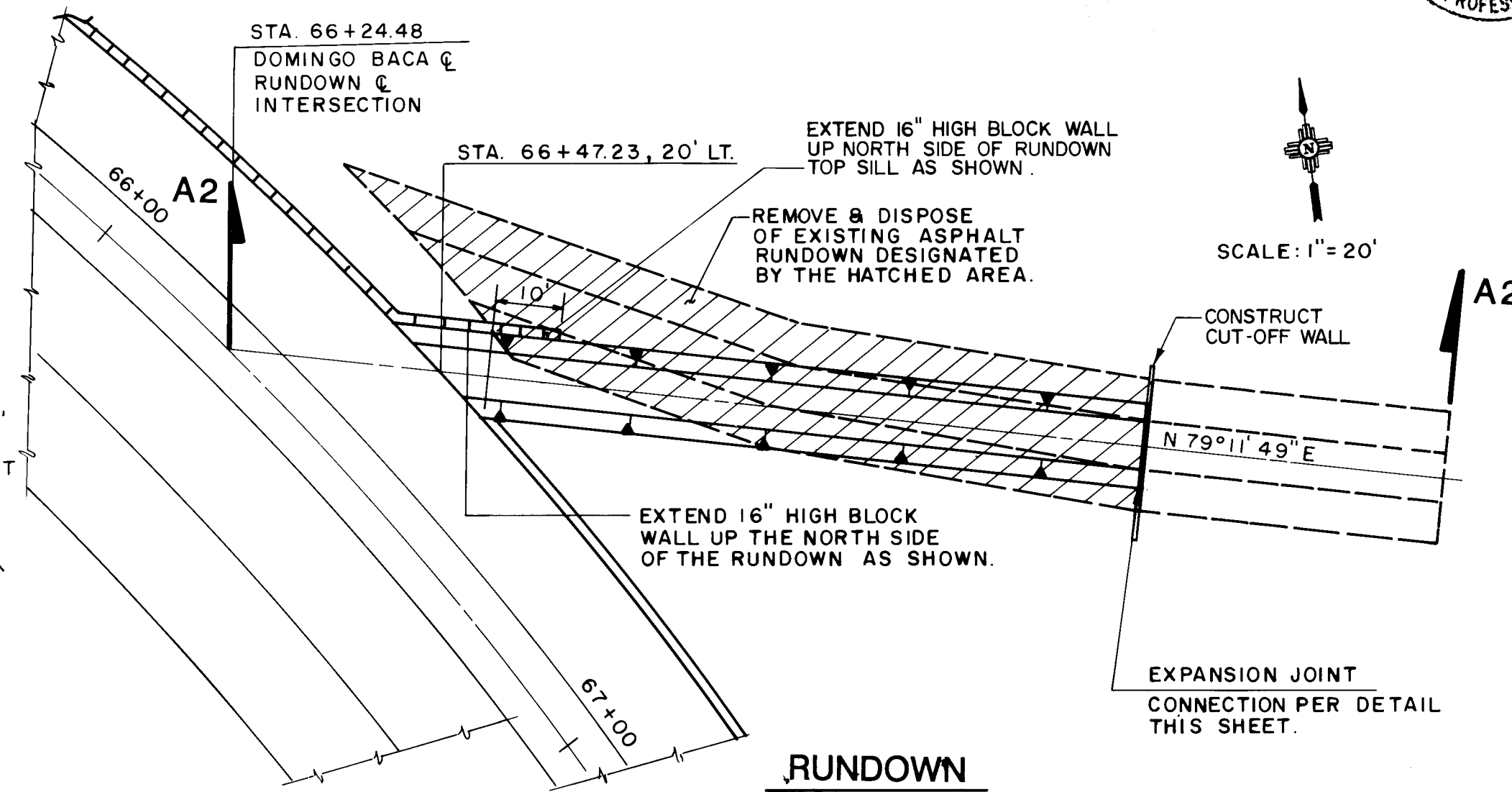
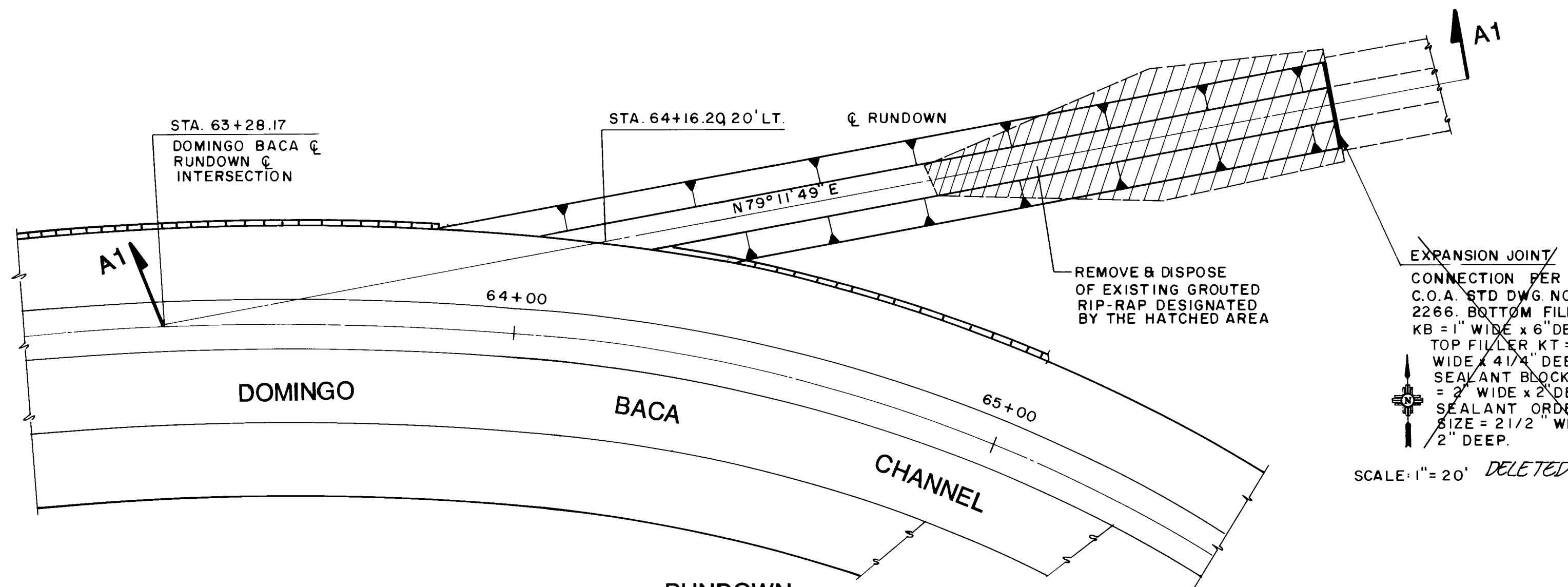
NOTE: ALL WORK SHOWN ON THIS SHEET IS INCLUDED IN SCHEDULE A AND SCHEDULE B



RECORD DRAWING
I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.



Ronald P. Bohannon
Ronald P. Bohannon
N.M.P.E. No. 9814



26 3840.901793

EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
5643 PARADISE BLVD. N.W. APO, N.M. (505) 898-8021

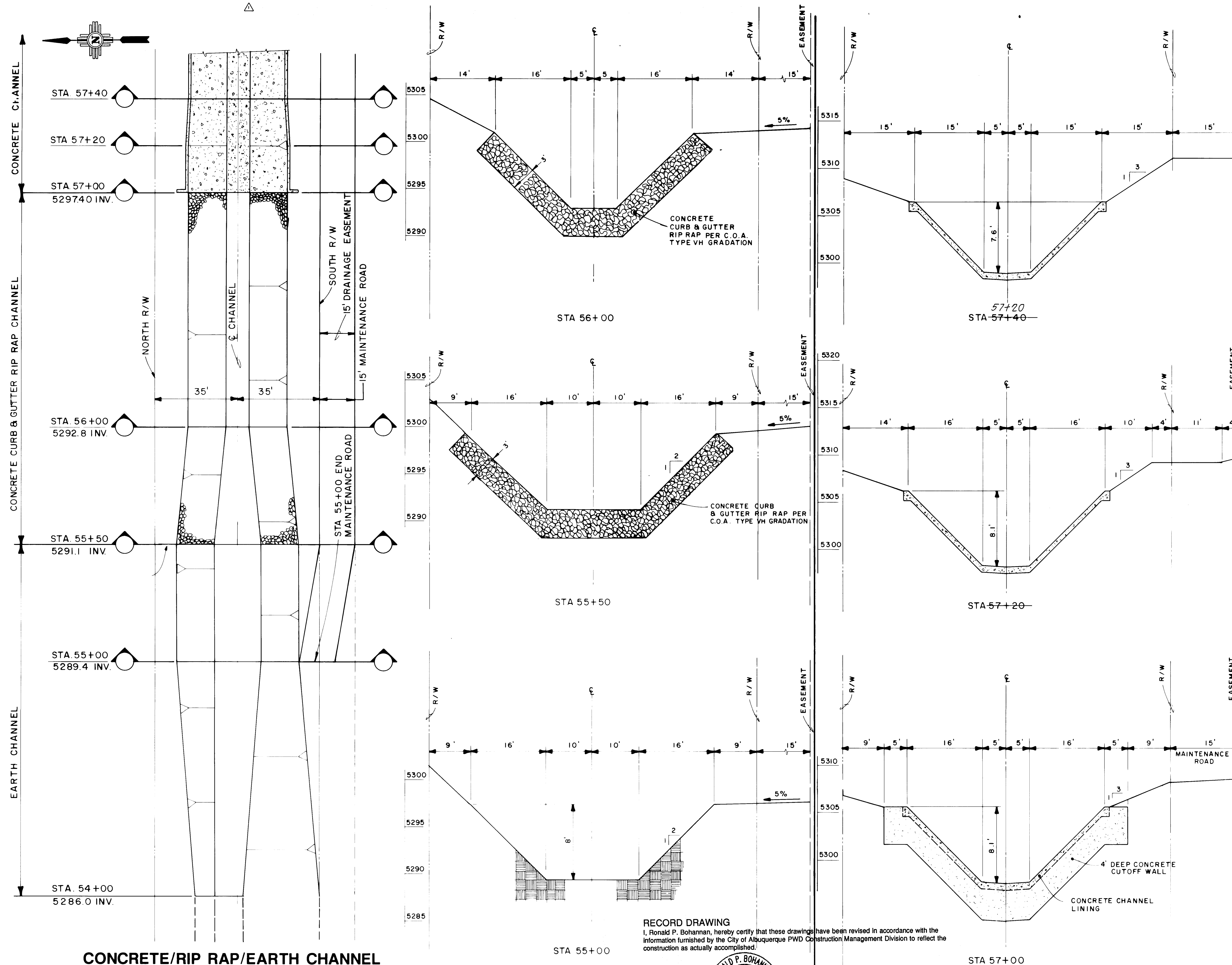
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE LOUISIANA BLVD CROSSING/DOMINGO BACA ARROYO
RUNDOWN DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DR. Chan	R. Bohannon	11/5/90			
Dr. Chan	R. Bohannon	10/10/90			
Dr. Chan	R. W. Kane	10/10/90			
Dr. Chan	Steve Bailey	10/10/90			
DRAWING	3840	D-19	SHEET	17	27

NO.	3840	D-19	18	27
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NOTE: ALL WORK SHOWN ON THIS SHEET IS INCLUDED IN SCHEDULE A AND SCHEDULE B

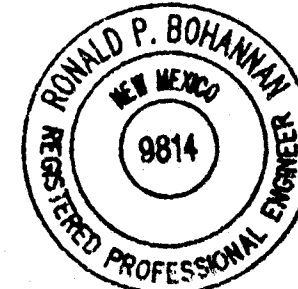


CONCRETE/RIP RAP/EARTH CHANNEL

SCALE: 1"=20'

RECORD DRAWING

I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.



Ronald P. Bohannon 1/21/92
Ronald P. Bohannon
N.M.P.E. No. 9814

EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
5643 PARADISE BLVD. N.W. ALBUQUERQUE, N.M. 87105-1802

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE LOUISIANA BLVD CROSSING/DOMINGO BACA ARROYO
CONCRETE/RIP RAP/
EARTH CHANNEL TRANSITION

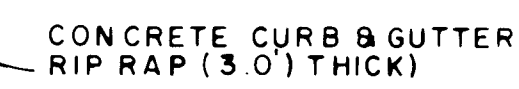
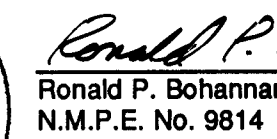
APPROVAL	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DESIGNED BY	R. Bohannon	4/5/90			
DRAWN BY	R. Bohannon	10-10-90			
CHECKED BY	R. Bohannon	10-10-90			
DESIGNED BY	DSH, RPB	DATE 4/90			
DRAWN BY	JEL	DATE 4/90			
CHECKED BY		DATE			

DRAWING NO 3840 MAP NO D-19 SHEET 19 OF 27

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN	
CONTRACT NO.	1-C19	ELEV. 5318.195	ASC BRASS TABLET LOCATED 30' NORTH OF PASO DEL NORTE CENTERLINE AND 25' EAST OF LOUISIANA BLVD CENTERLINE.	FIELD NOTES	NO.	BY	DATE	NO.	DATE	DESIGNED BY	DATE
WORK BY	CITY	INSPECTORS	DATE	NO.	BY	DATE	NO.	DATE	DESIGNED BY	DATE	
ACCEPTANCE BY	J.A.D.	DATE		NO.	BY	DATE	NO.	DATE	DESIGNED BY	DATE	
FIELD NO.		DATE		NO.	BY	DATE	NO.	DATE	DESIGNED BY	DATE	
COMPILED BY	E.A.T.	DATE		NO.	BY	DATE	NO.	DATE	DESIGNED BY	DATE	
RECORDED BY		DATE		NO.	BY	DATE	NO.	DATE	DESIGNED BY	DATE	

100 80 60 40 20 0 20 40 60 80

I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.



		4	5	6	7	8	9	10	11	12	13	14
26		38	40	.	90	20	93					

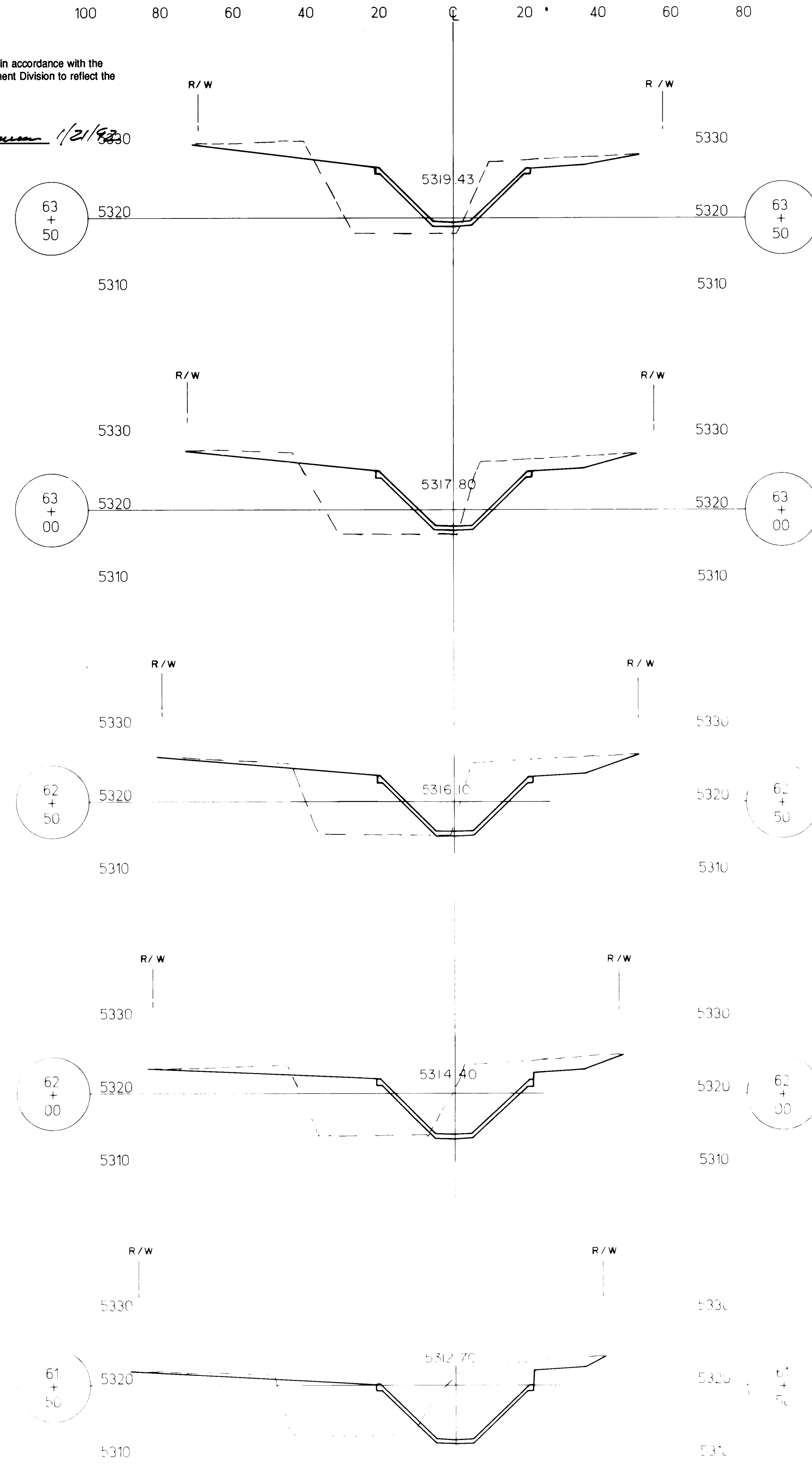
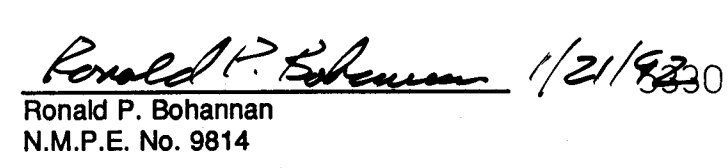
EASTERLING & ASSOCIATES, INC.
—CONSULTING ENGINEERS—
5643 PARADISE BLVD. NW ABQ. N.M. (505) 898-8021

TITLE LOUISIANA BLVD. CROSSING/DOMINGO BACA ARROYO
STA. 54+00 TO STA. 58+50
CHANNEL CROSS SECTION

DRAWING NO. **3840** MAP NO. **D-19** SHEET **20** OF **27**

REMARKS	BY
PUNISH TO BE LEFT SEPARATE	DSH / B44

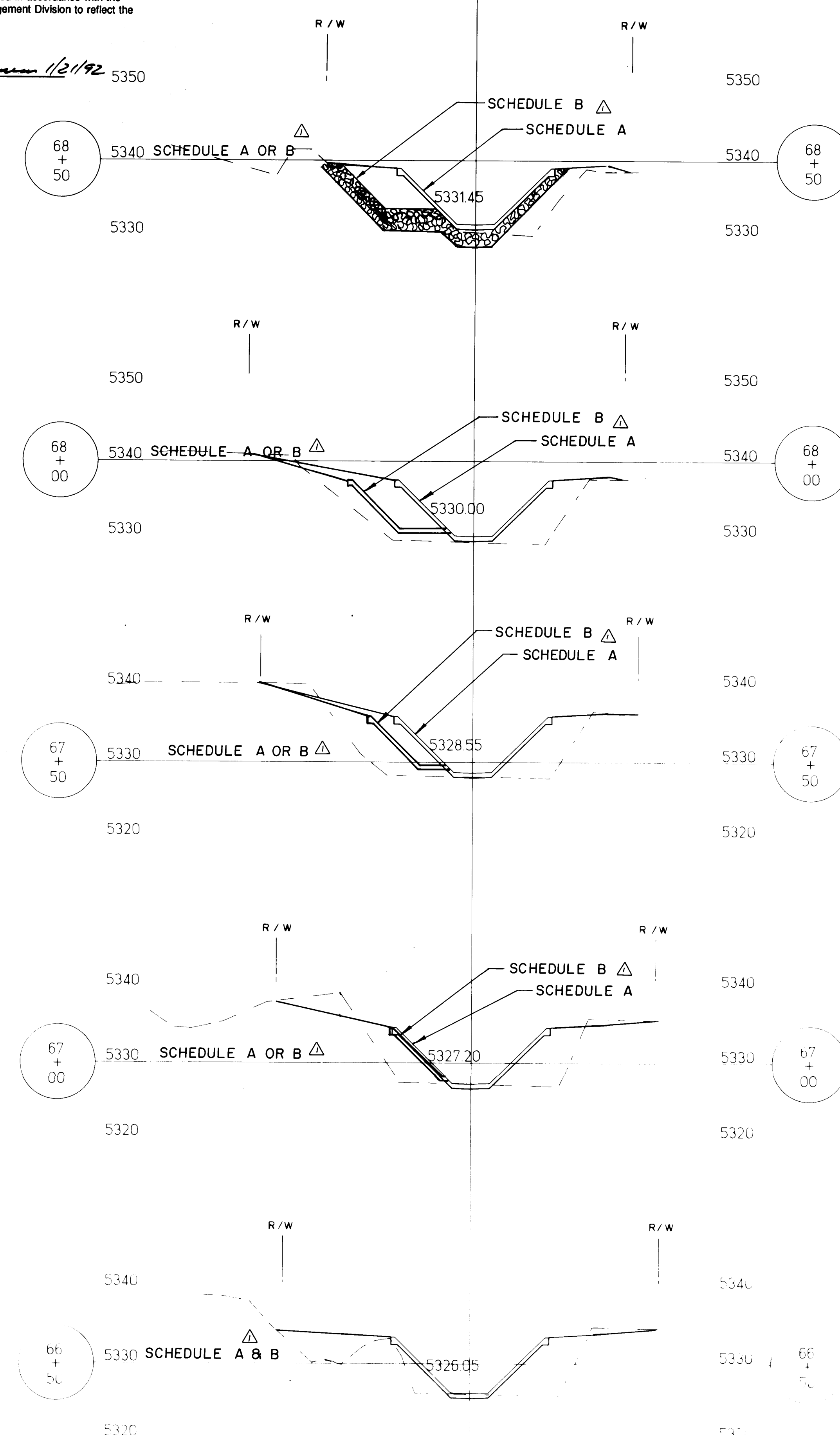
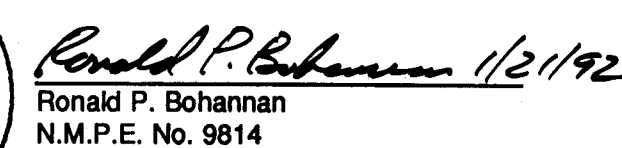
RECORD DRAWING
I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.



DRAWING NO	3840	MAP NO D-19	SHEET 21 OF 27
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				ENGINEER'S SEAL			ELEV. 531.8.195 1-C13 BENCH MARKS ASC BRASS TABLET LOCATED 30' NORTH OF PASEO DEL NORTE CENTERLINE AND 25' EAST OF LOUISIANA BLVD. CENTERLINE.		CONTRACT NO. ALBANY/0001000000 PROJECT NAME ALBANY/0001000000 WORK STARTED BY CITY INSPECTOR'S FIELD TABLE BY J.A.D. VERIFICATION BY CITY CORRECTED BY E.A.I.		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DESIGNED BY _____ DRAWN BY _____ CHECKED BY _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____		NO. _____ BY _____ REMARKS _____ REVISIONS _____ DESIGN _____ DATE _____ DATE _____ DATE _____			
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I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.



NO	RECORDED BY	MICRO-FILM INFORMATION	
		CORRECTED BY	E. A. I.
		VERIFICATION BY	CITY
		FIELD	
		ACCEPTANCE BY	W. A. O.
		INSPECTOR'S	DATE
		WORK ORDER NO.	CITY
		CONTRACTOR NAME AND ADDRESS	

<i>BENCH MARKS</i>	
1-C19	ELEV. 5318.195
ASO BRASS TABLET LOCATED 30' NORTH OF PASEO	
DEL NORTE CENTERLINE AND 25' EAST OF LOUISIANA	
BLVD. CENTERLINE.	

[illegible][illegible]

Scale: 1"=20' HORIZ
1"=10' VERT

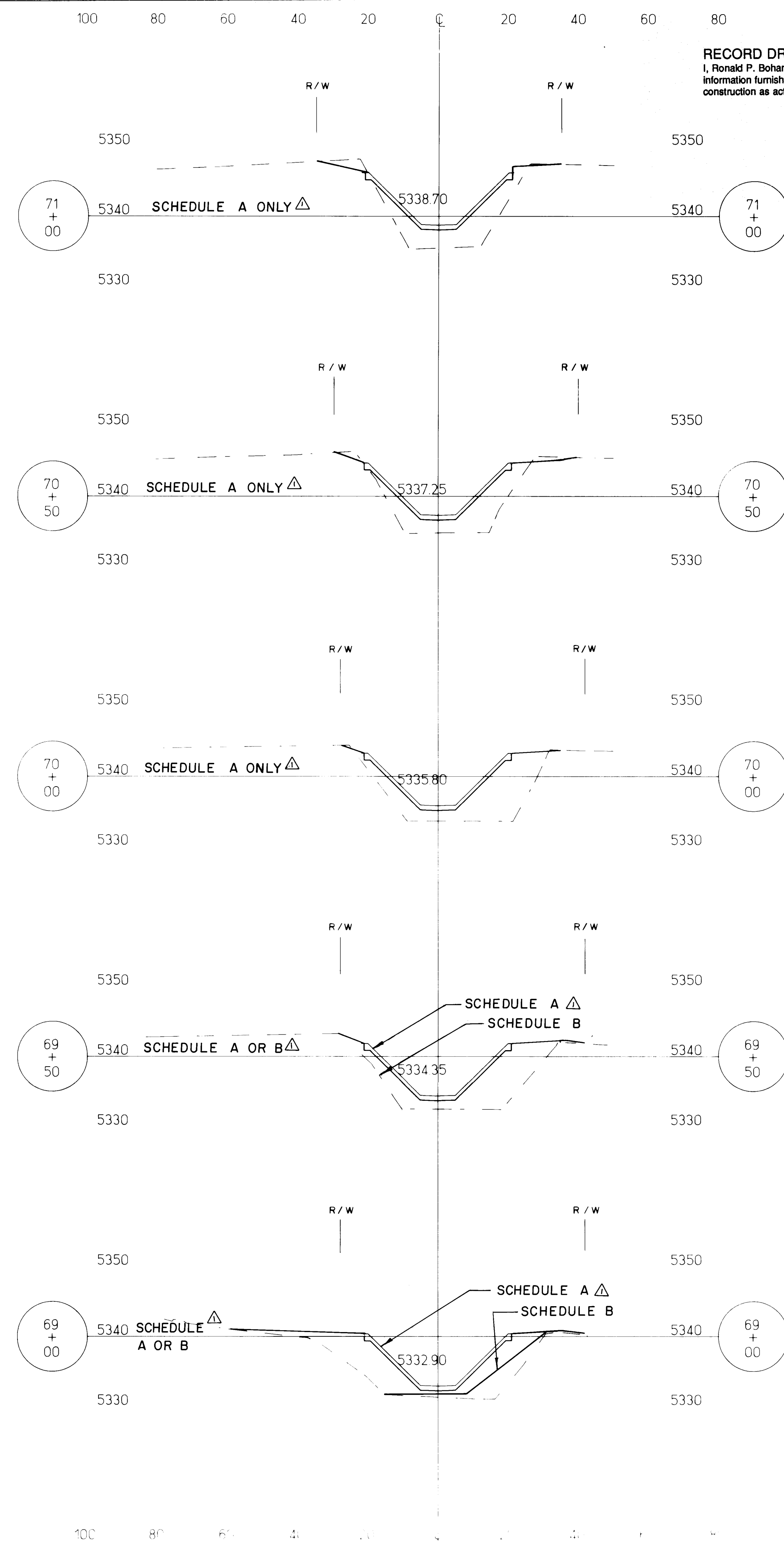
5643 PARADISE BLVD. N.W. ABQ. N.M. (505) 898-8021

TITLE LOUISIANA BLVD. CROSSING/DOMINGO BACA ARROYO
CHANNEL CROSS SECTION
STA. 64+00 TO STA. 68+50

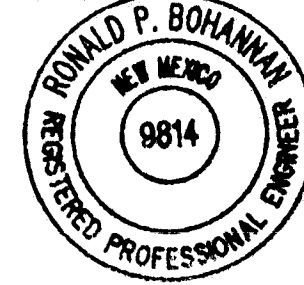
APPRAISAL	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
10-10-90	R. W. Dwyer	11/5/90			
10-10-90	R. W. Dwyer	10-10-90			
10-10-90	R. W. Dwyer	10-10-90			
10-10-90	Steve Boley	10/10/90			

DRAWING NO	3840	MAP NO	D-19	SHEET	22	OF	27
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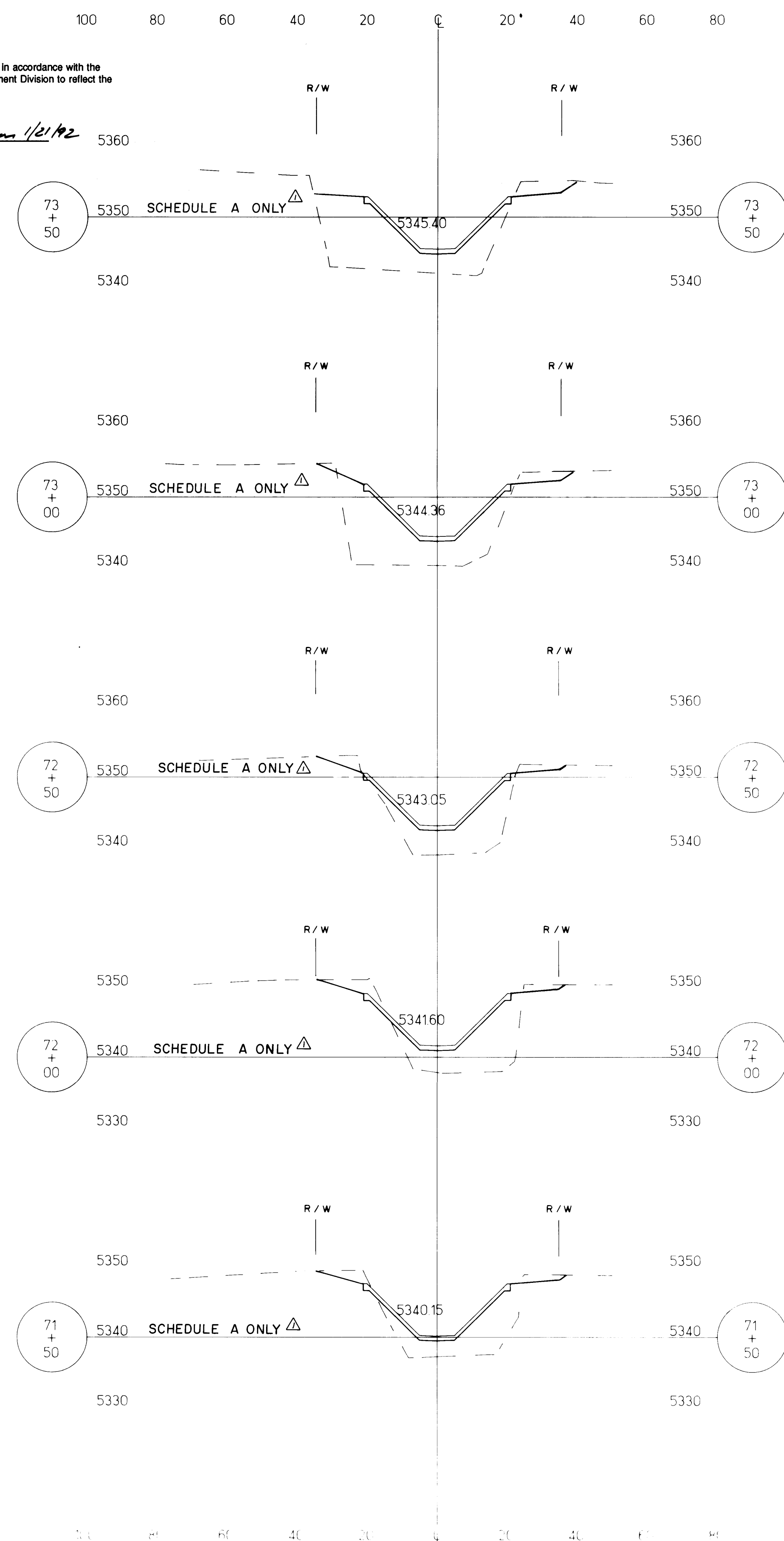
**NOTE: ALL CROSS-SECTIONS ON THIS SHEET
△ SCHEDULE B WORK AS NOTED BELOW.**



RECORD DRAWING
I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.



Ronald P. Bohannan
N.M.P.E. No. 9814



TIE SLOPES SHALL BE 2% MINIMUM
3=1 MAXIMUM

[illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	6		3	8	4	0	.	9	0	2	3	9	3	

SCALE: 1"=20' HORIZONTAL
1"=10' VERTICAL

EASTERLING & ASSOCIATES, INC.
—CONSULTING ENGINEERS—
5643 PARADISE BLVD. NW ABO. N.M. (505) 898-8021

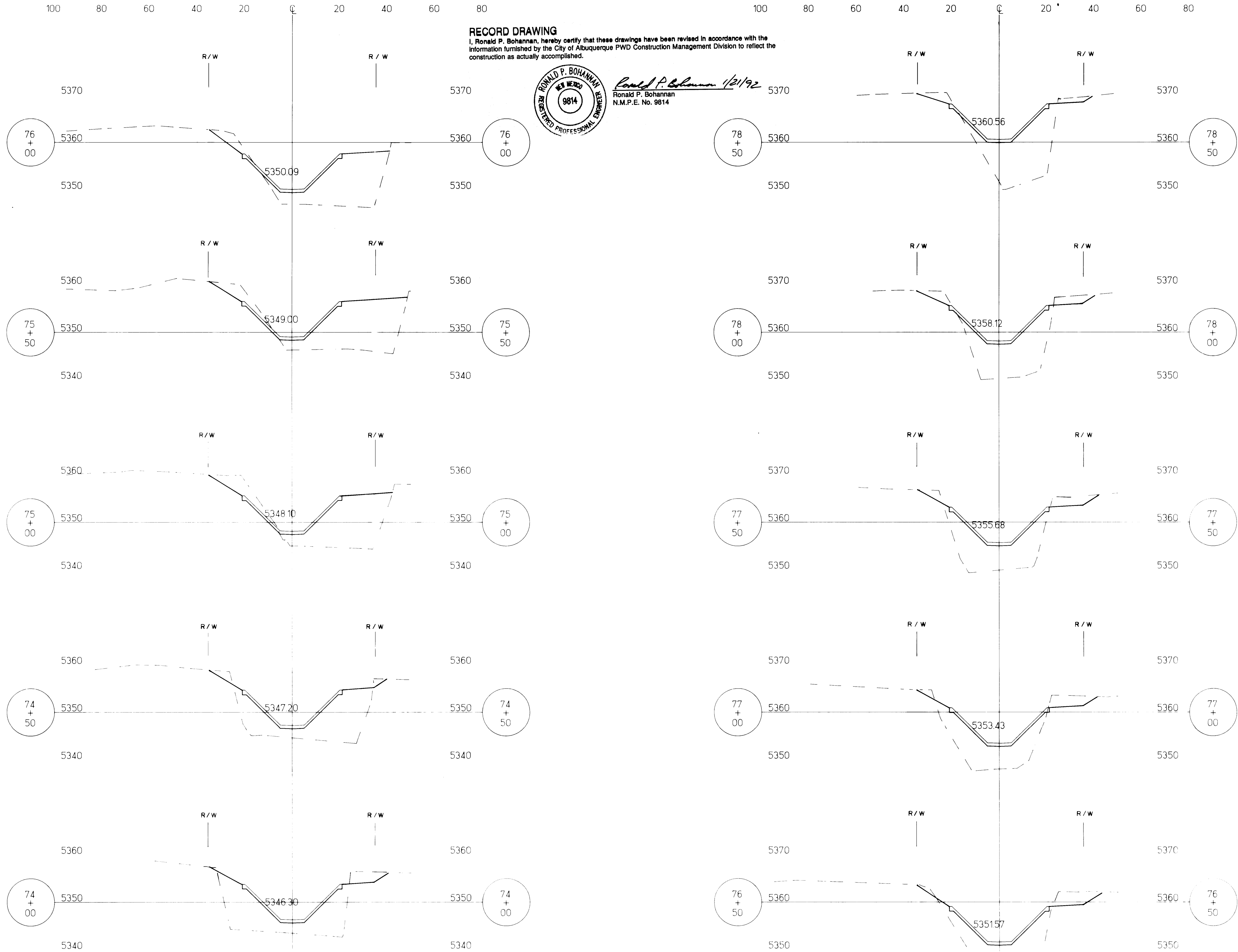
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE LOUISIANA BLVD. CROSSING / DOMINGO BACA ARROYO
CHANNEL CROSS SECTION
STA. 69+00 TO STA. 73+50

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Lead	Roger Allen	11/5/90			
Trans. Des.	Ed Davis	10-10-90			
Utility Des.	R. W. Kane	10-10-80			

DRAWING NO	3840	MAP NO	D-19	SHEET	23	OF	27
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NOTE: ALL CROSS-SECTIONS SHOWN ON THIS SHEET ARE FOR SCHEDULE A WORK ONLY.



RECORD DRAWING
I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.

RONALD P. BOHANNAN
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
9814

Ronald P. Bohannon 12/1/92
Ronald P. Bohannon
N.M.P.E. No. 9814

TIE SLOPES SHALL BE 2% MINIMUM
3=1 MAXIMUM

1 2 3 4 5 6 7 8 9 10 11 12
26 38 40 9 0 2 4 9 3

SCALE: 1"=20' HORIZONTAL
1"=10' VERTICAL

EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
5643 PARADISE BLVD. N.W. ALBUQUERQUE, N.M. (505) 898-8021

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE LOUISIANA BLVD CROSSING/DOMINGO BACA ARROYO
CHANNEL CROSS SECTION
STA. 74+00 TO STA. 78+50

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG. CHG.	<i>Ronald P. Bohannon</i>	11/5/90			
TRANS. CHG.	<i>R. W. Kone</i>	10/10/90			
UTILITY CHG.	<i>Stan Bailey</i>	10/10/90			

DRAWING NO. **3840** MAP NO. **D-19** SHEET **24** OF **27**

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN	
CONTRACT NO.	DATE	1-C19	DATE	NO.	BY	NO.	DATE	NO.	DATE	NO.	DATE
5318.135		ASC BRASS TABLET LOCATED 30' NORTH OF PASEO DEL NORTE CENTERLINE AND 25' EAST OF LOUISIANA BLVD CENTERLINE									
INSPECTOR'S NAME	DATE	INSPECTOR'S NAME	DATE	INSPECTOR'S NAME	DATE	INSPECTOR'S NAME	DATE	INSPECTOR'S NAME	DATE	INSPECTOR'S NAME	DATE
FILED	DATE	FILED	DATE	FILED	DATE	FILED	DATE	FILED	DATE	FILED	DATE
VERIFICATION BY	DATE	VERIFICATION BY	DATE	VERIFICATION BY	DATE	VERIFICATION BY	DATE	VERIFICATION BY	DATE	VERIFICATION BY	DATE
CORRECTED BY	DATE	CORRECTED BY	DATE	CORRECTED BY	DATE	CORRECTED BY	DATE	CORRECTED BY	DATE	CORRECTED BY	DATE
MICRO-FILM INFORMATION		MICRO-FILM INFORMATION		MICRO-FILM INFORMATION		MICRO-FILM INFORMATION		MICRO-FILM INFORMATION		MICRO-FILM INFORMATION	
RECORDED BY	DATE	RECORDED BY	DATE	RECORDED BY	DATE	RECORDED BY	DATE	RECORDED BY	DATE	RECORDED BY	DATE
NO.		NO.		NO.		NO.		NO.		NO.	



NOTE: ALL OF THE FOLLOWING ARE FOR INFORMATION ONLY.



I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.



Ronald P. Bohannon 11/21/92
Ronald P. Bohannon
N.M.P.E. No. 9814

[illegible]

SCALE: 1"=20' HORIZONTAL
1"=10' VERTICAL

EASTERLING & ASSOCIATES, INC.
—CONSULTING ENGINEERS—
5643 PARADISE BLVD. N.W. ABO. N.M. (505) 898-8021

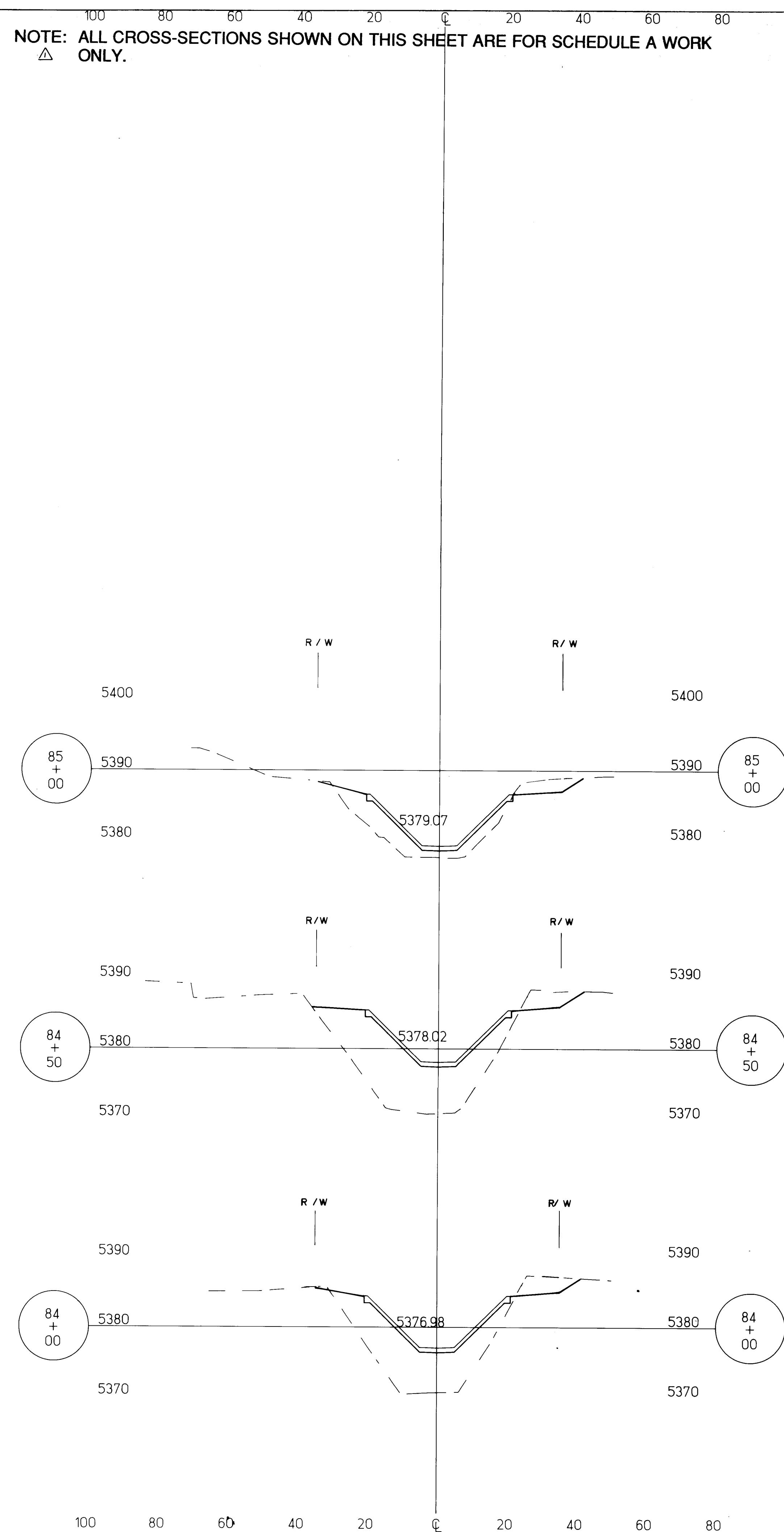
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE LOUISIANA BLVD CROSSING/DOMINGO BACA ARROYO
 CHANNEL CROSS SECTION
 STA. 79+00 TO STA. 83+50

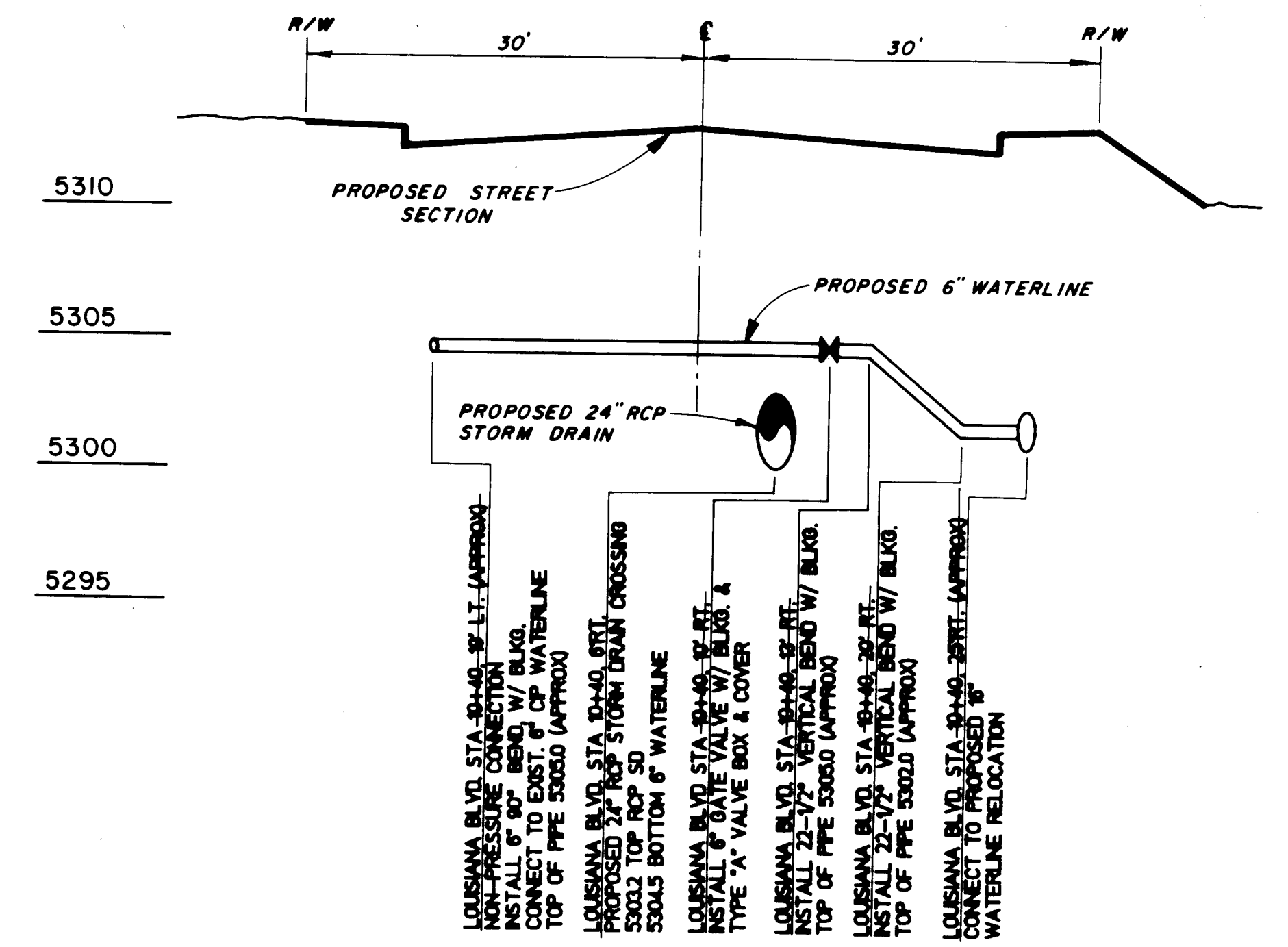
APPROVAL	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
	<i>Popelthorn</i>	<i>11/5/90</i>			
	<i>Donk</i>	<i>10-10-90</i>			
	<i>H. W. Korne</i>	<i>10-10-90</i>			
	<i>Stan Bohony</i>	<i>10/10/90</i>			

DRAWING NO. 3840 MAP NO. D-19 SHEET 25 OF 27

NOTE: ALL CROSS-SECTIONS SHOWN ON THIS SHEET ARE FOR SCHEDULE A WORK ONLY.



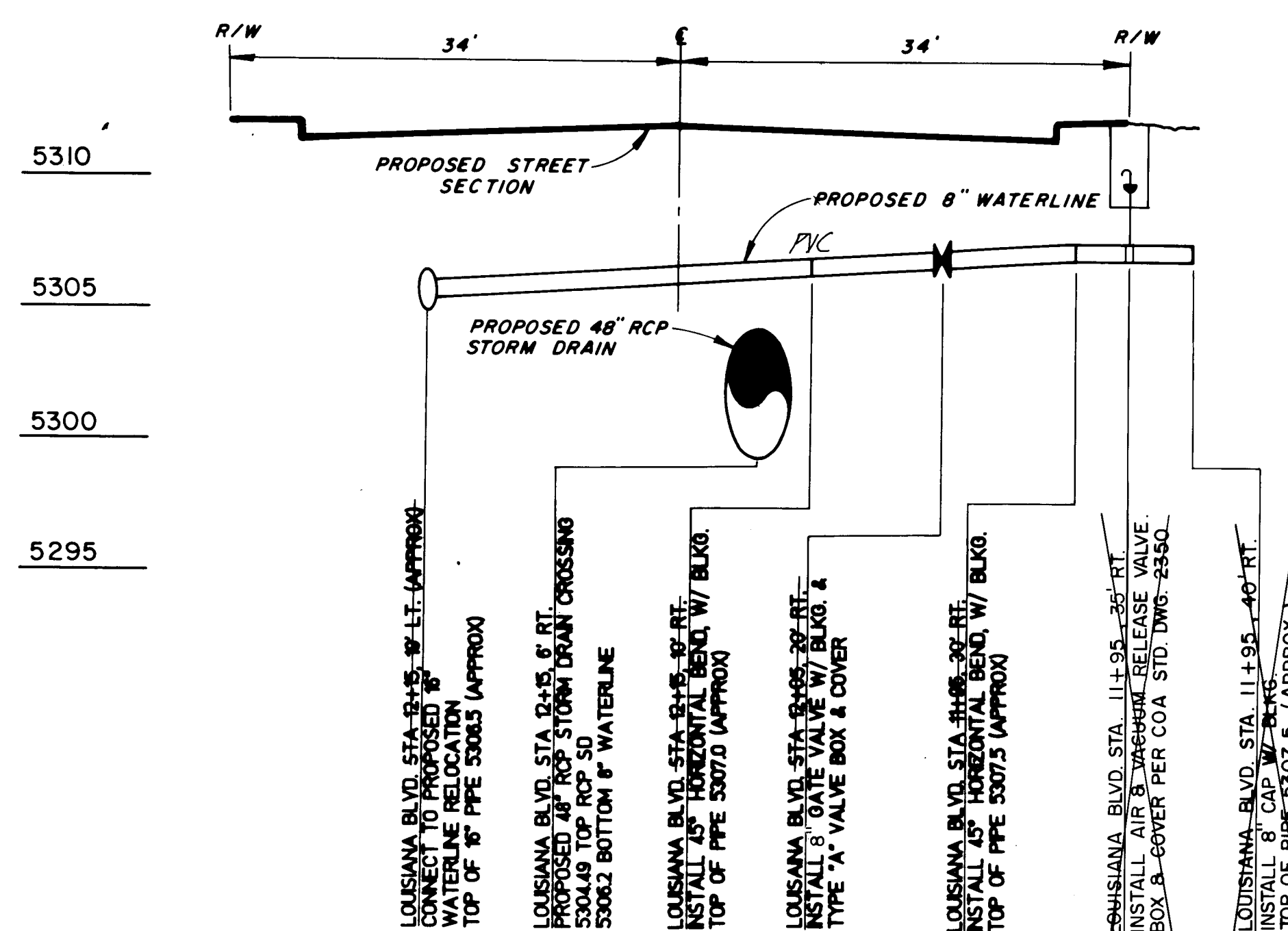
NOTE: ALL DETAILS ON THIS SHEET ARE FOR USE IN SCHEDULE A AND SCHEDULE B WORK.



6" WATERLINE PROFILE
LOUISIANA BLVD. STA 40+40.00

1"=10' HORIZ.
1"= 5' VERT.

SEE SHEET A



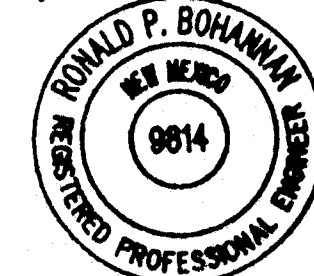
8" WATERLINE PROFILE
LOUISIANA BLVD. STA 42+15.00

1"=10' HORIZ.
1"= 5' VERT.

SEE SHEET A

*MECALUG RESTRAINING JOINTS
USED IN LIEU OF BLOCKING

RECORD DRAWING
I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.



Ronald P. Bohannon 1/21/92
N.M.P.E. No. 9814

TIE SLOPES SHALL BE 2% MINIMUM
3=1 MAXIMUM

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 3840.902693

SCALE: 1"=20' HORIZONTAL
1"=10' VERTICAL

EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
5643 PARADISE BLVD. N.W. ABO, N.M. (505) 898-8021

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP
TITLE: LOUISIANA BLVD. CROSSING/DOMINGO BACA ARROYO
CHANNEL CROSS SECTION
STA. 84+00 TO STA. 85+50

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	Ronald P. Bohannon	1/21/92			
Trans. Dev.	R. P. Bohannon	10-10-92			
Utility Dev.	R.W. Kane	10-10-90			
Hydrology	Steve Bailey	10/10/90			

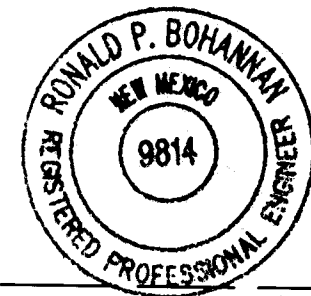
DRAWING NO. 3840 MAP NO. D-19 SHEET 26 OF 27

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	1-C19	ELEV. 5318.195	DATE	NO.	BY	NO.	BY
WORK	ASC BRASS TABLET LOCATED 30' NORTH OF PASEO DEL NORTE CENTERLINE AND 25' EAST OF LOUISIANA BLVD. CENTERLINE.						
INSPECTORS							
ACCEPTANCE BY	J.A.O.						
DATE							
VERIFICATION BY	E.A.I.						
DATE							
REVISIONS							
DESIGN							
DESIGNED BY	R.P.B., DSH	DATE	7-90				
DRAWN BY	DEC, JEL, BRG	DATE	7-90				
CHECKED BY	RPB	DATE	7-90				

NOTE: ALL WORK SHOWN ON THIS SHEET IS INCLUDED IN SCHEDULE B ONLY

RECORD DRAWING

I, Ronald P. Bohannon, hereby certify that these drawings have been revised in accordance with the information furnished by the City of Albuquerque PWD Construction Management Division to reflect the construction as actually accomplished.



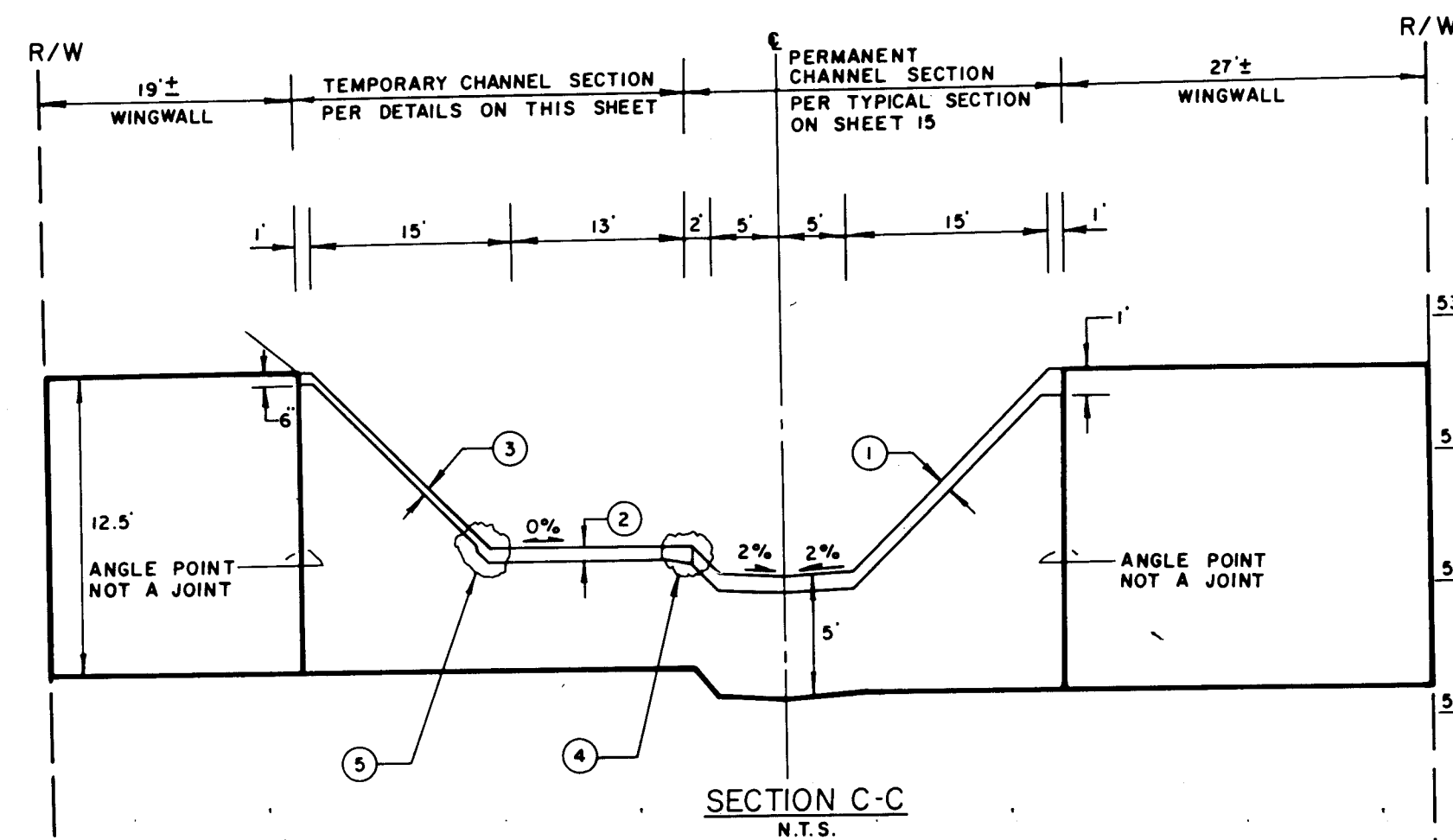
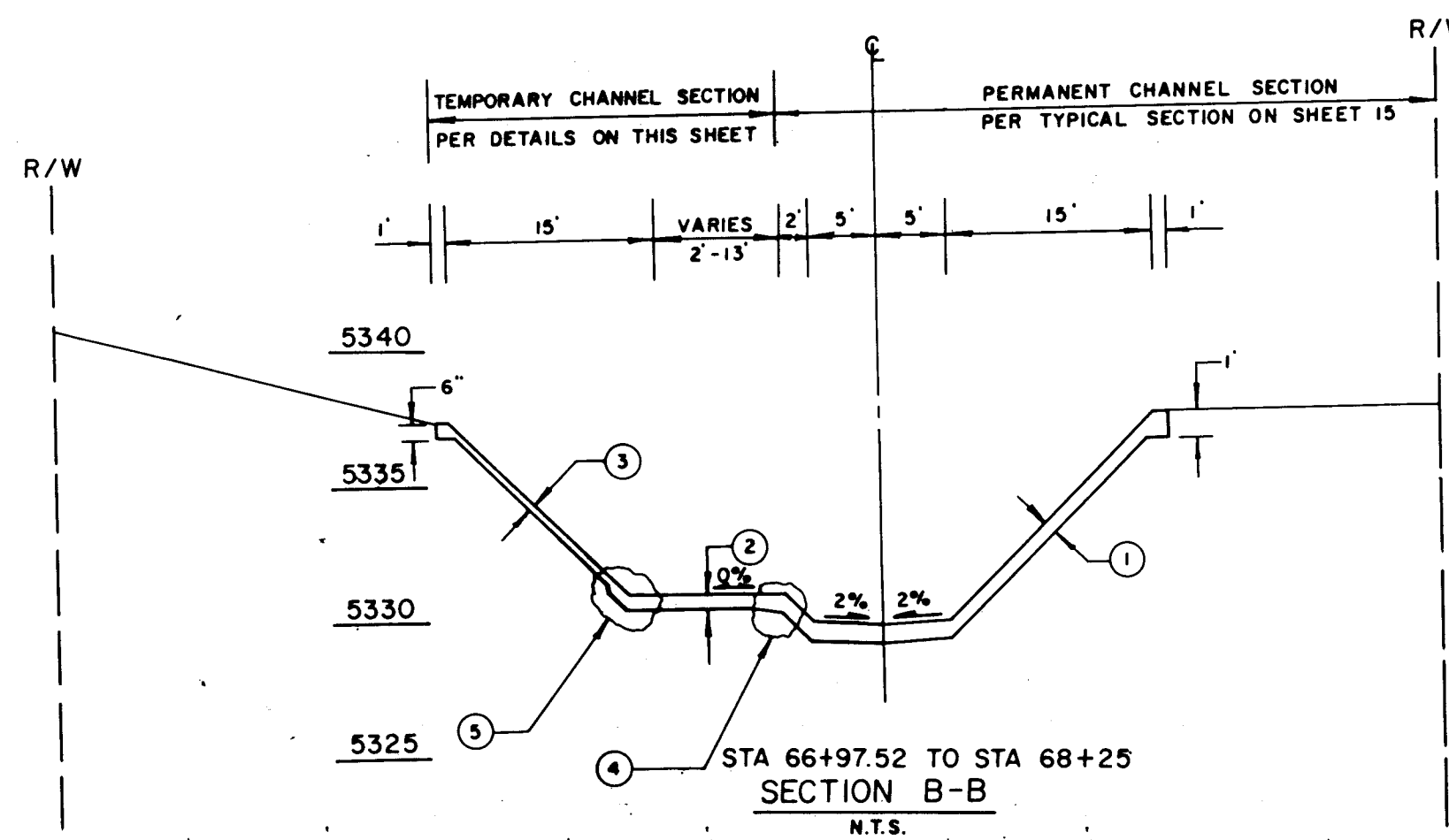
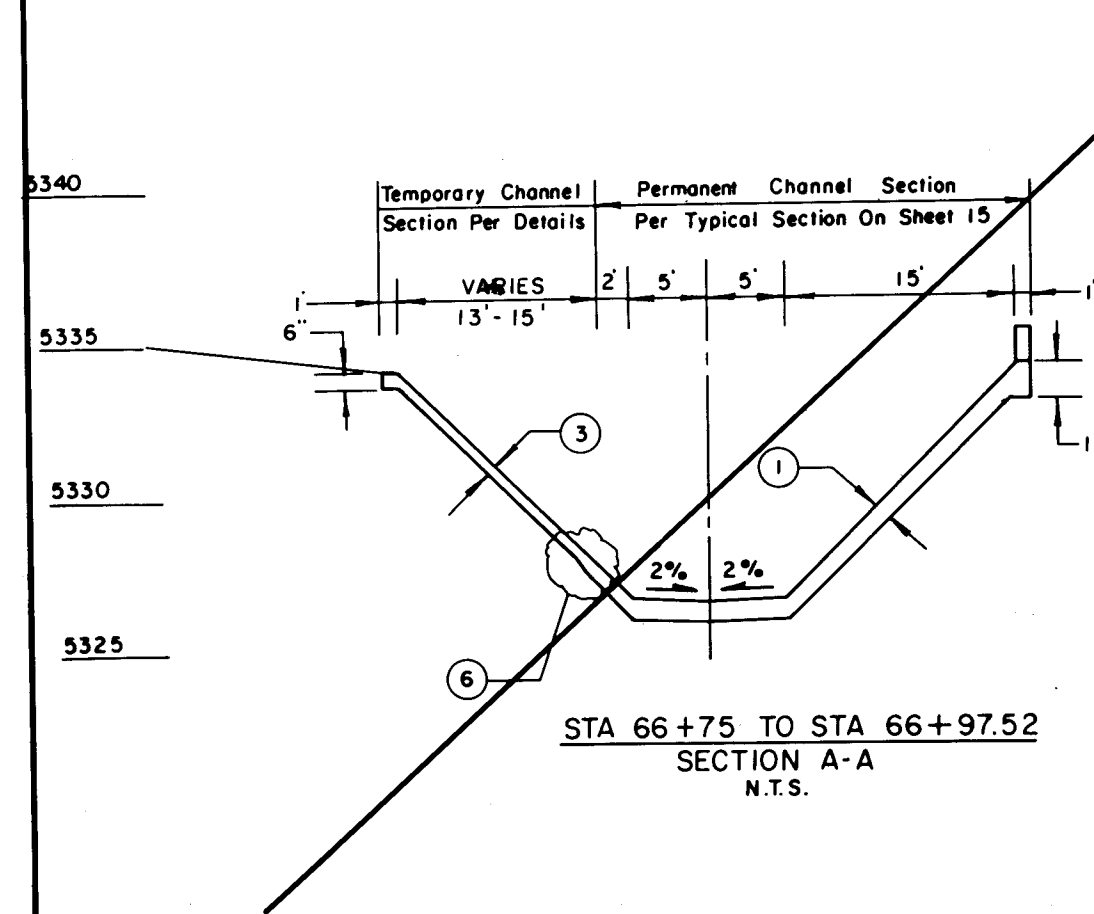
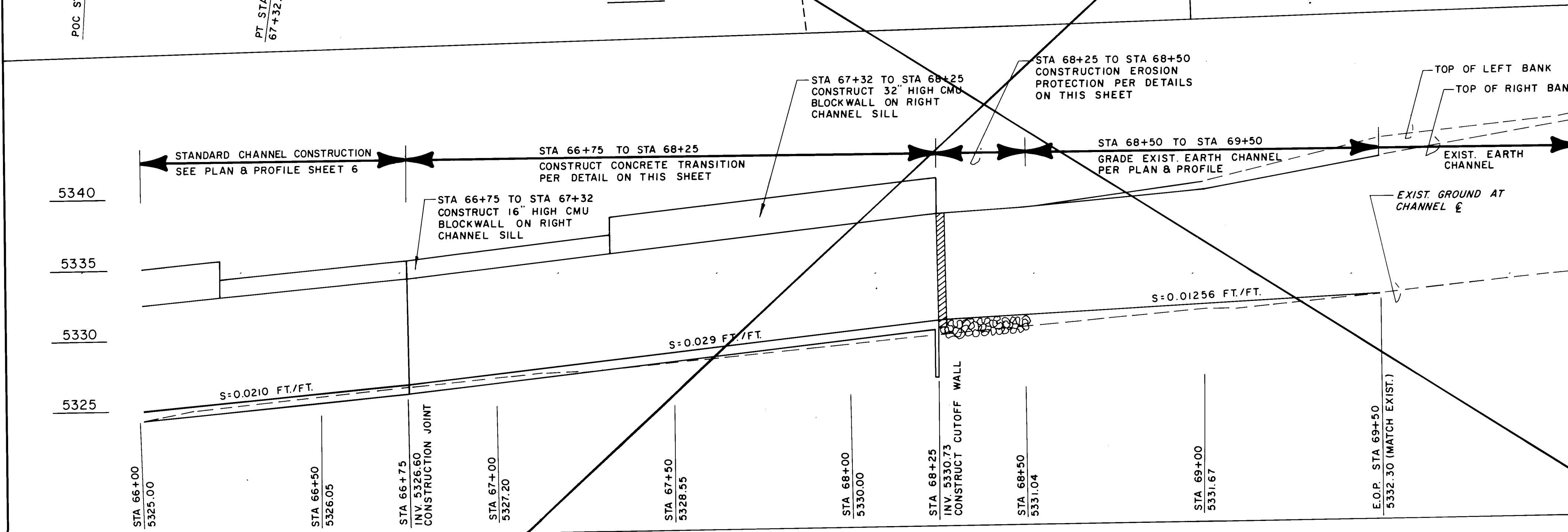
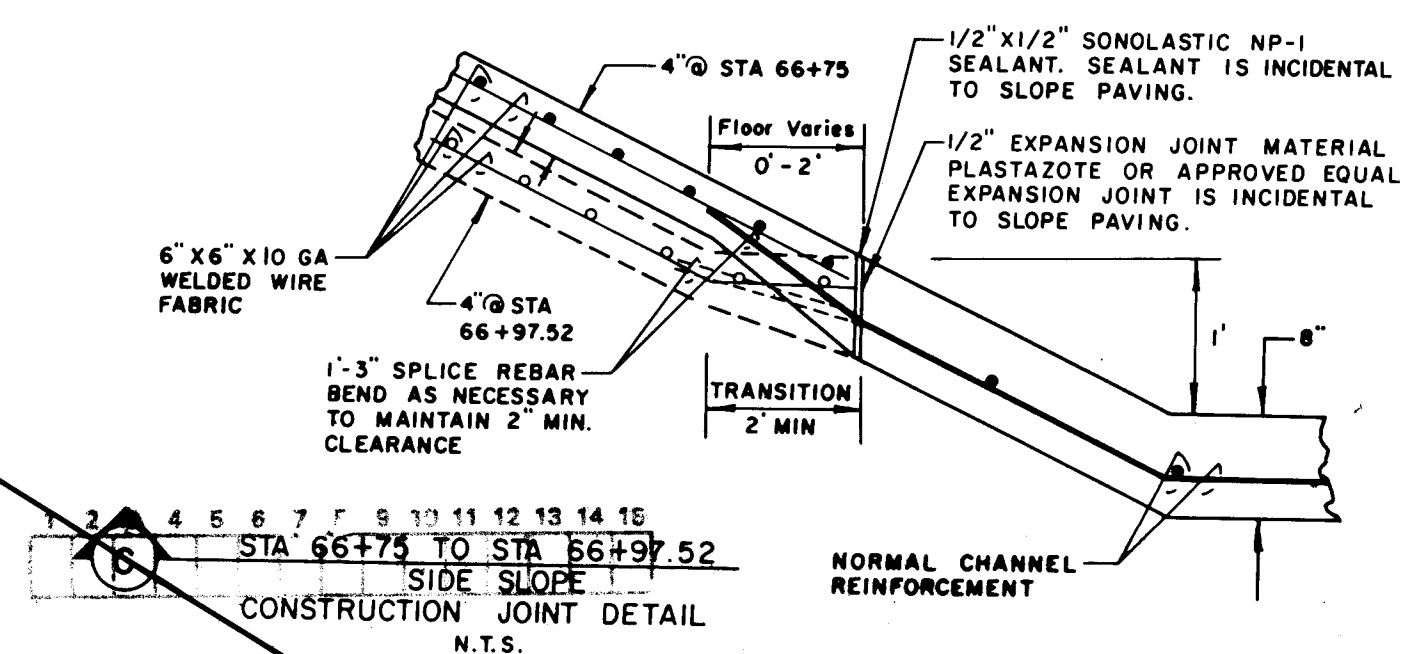
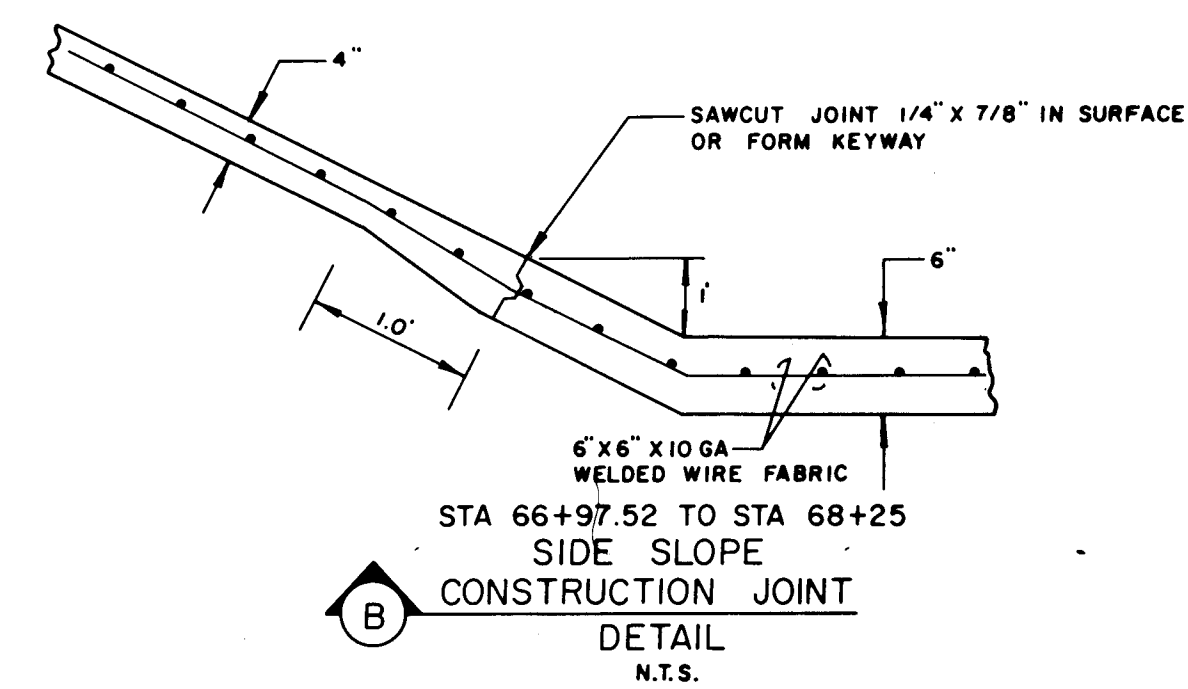
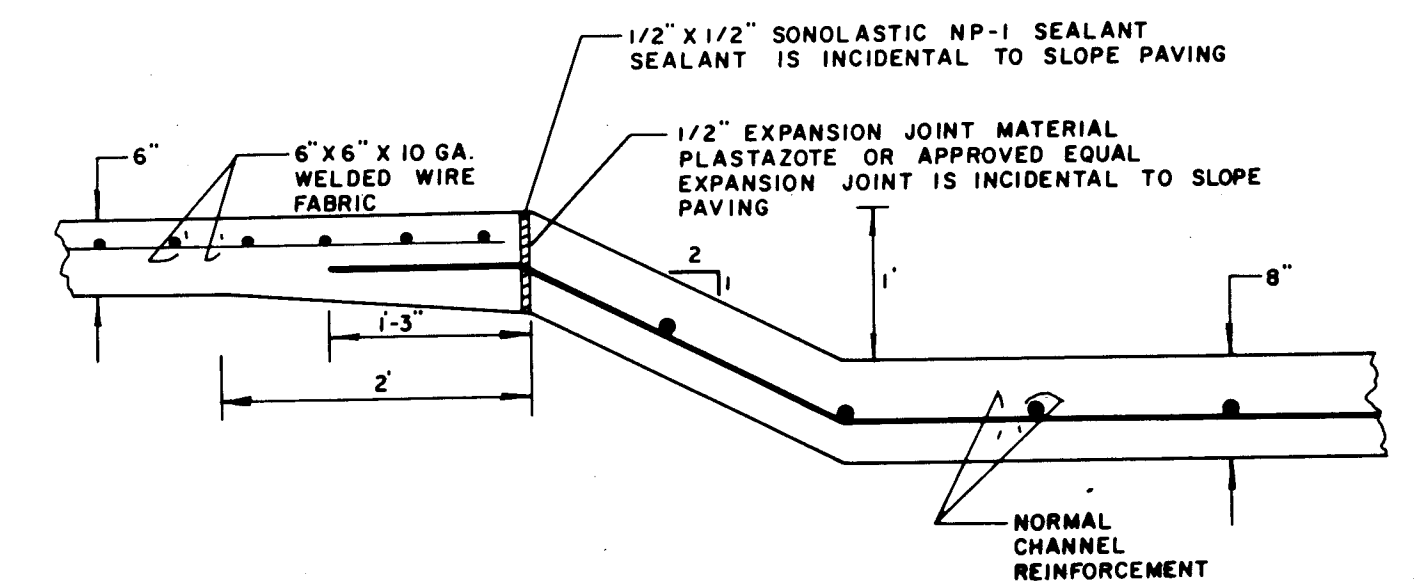
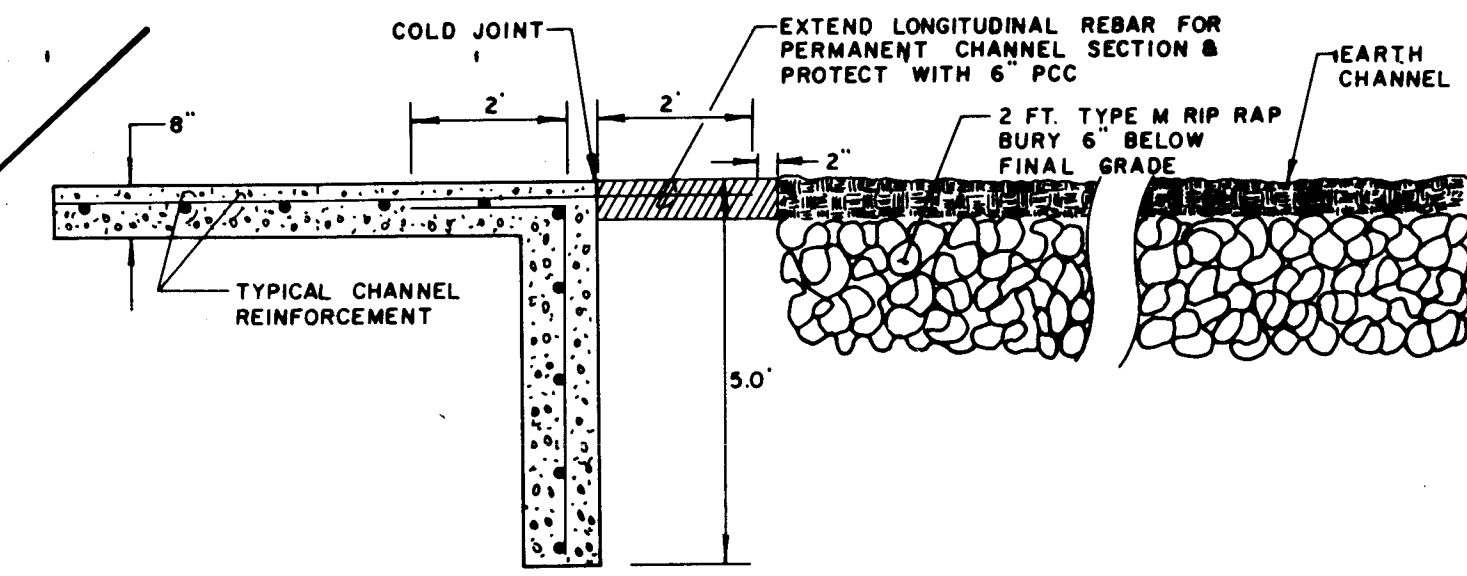
Ronald P. Bohannon, 1/21/91
Ronald P. Bohannon
N.M.P.E. No. 9814

SCALE: 1" = 20' HORIZ.
1" = 5' VERT.

PROVIDE 6" CLEARANCE ALL AROUND
EXISTING 16" WATERLINE PENETRATION
OF PROPOSED WINGWALL

GENERAL NOTES:

- 1 8" PCC WITH TYPICAL CHANNEL REINFORCEMENT.
- 2 6" PCC REINFORCED WITH 6"x6"x10 GA. WELDED WIRE MESH.
- 3 4" PCC REINFORCED WITH 6"x6"x10 GA. WELDED WIRE MESH.
- 4 FLOOR CONSTRUCTION JOINT STA. 66+97.52 TO STA. 68+25 PER DETAIL (A) ON THIS SHEET.
- 5 SIDE SLOPE CONSTRUCTION JOINT STA. 66+97.52 TO STA. 68+25 PER DETAIL (B) ON THIS SHEET.
- 6 SIDE SLOPE CONSTRUCTION JOINT STA. 66+75 TO STA. 66+97.52 PER DETAIL (C) ON THIS SHEET.



AS BUILT INFORMATION				BENCH MARKS			
CONTRACT NO.	CITY	DATE	DATE	NO.	DATE	NO.	DATE
WORK ORDER NO.	BY	DATE	DATE	NO.	DATE	NO.	DATE
APPROVED BY	DATE	DATE	DATE	NO.	DATE	NO.	DATE
DESIGNED BY	DATE	DATE	DATE	NO.	DATE	NO.	DATE
DRAWN BY	DATE	DATE	DATE	NO.	DATE	NO.	DATE
CHECKED BY	DATE	DATE	DATE	NO.	DATE	NO.	DATE
DESIGNED BY	DATE	DATE	DATE	NO.	DATE	NO.	DATE
DRAWN BY	DATE	DATE	DATE	NO.	DATE	NO.	DATE
CHECKED BY	DATE	DATE	DATE	NO.	DATE	NO.	DATE

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: Louisiana Blvd. Crossing/Domingo Baca Arroyo EARTH/RIP-RAP/CONCRETE CHANNEL TRANSITION			
APPROVALS	ENGINEER	DATE	APPROVALS
D.R.C. Chair			WATER
TRANS. DEV.			WASTE WATER
HYDROLOGY	Steve Bohannon	1-31-91	
PROJECT NO.	3840	MAP NO.	D-19
SHEET	27	OF	27