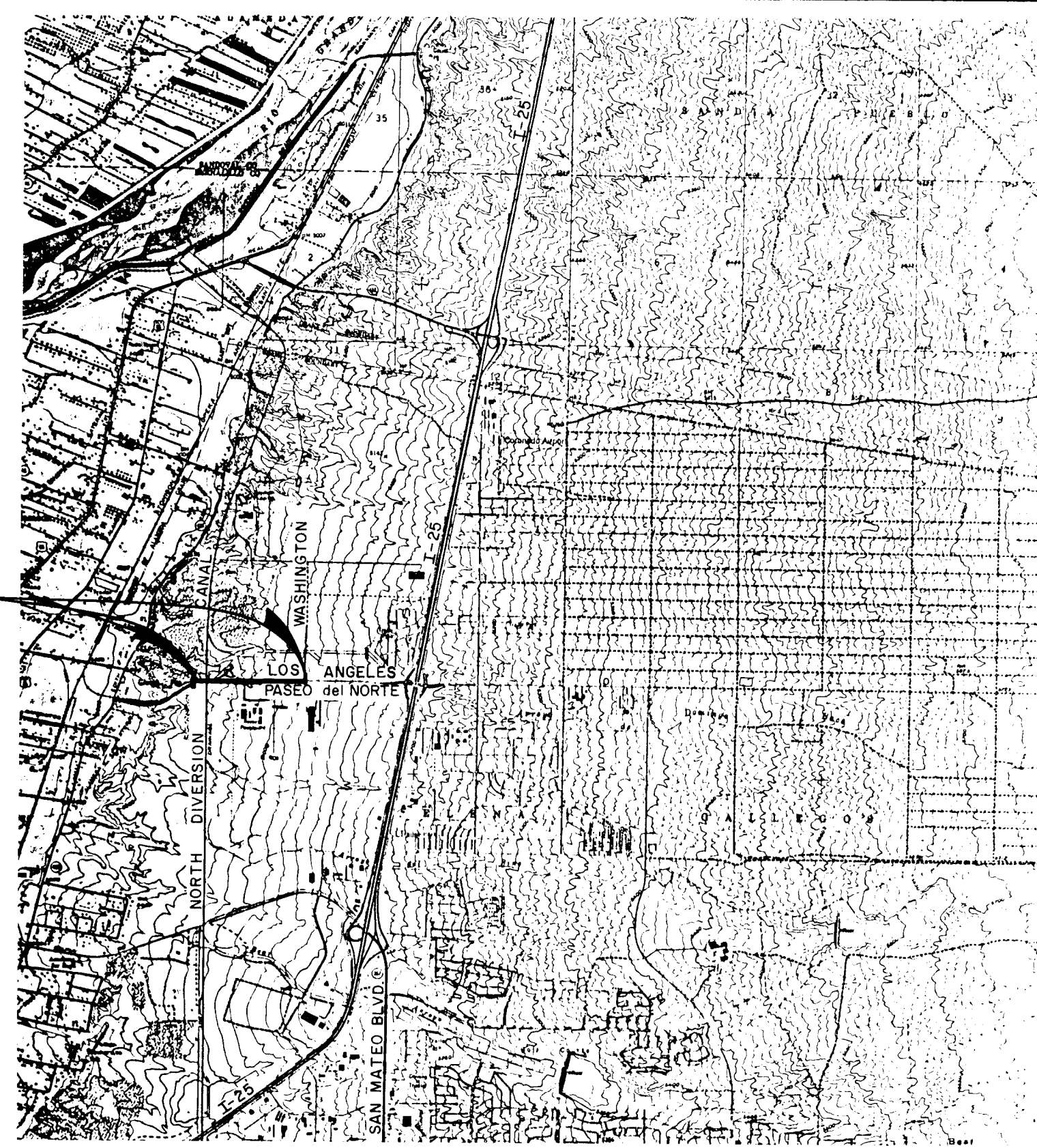




VICINITY MAP
SCALE: 1" = 4000'

SHEET INDEX

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Stephen C. Beckman
7/15/97

GENERAL CONSTRUCTION NOTES

- All work detailed on these plans to be performed under contract shall, except as otherwise stated or provided herein, be constructed in accordance with the City of Albuquerque Standard Specifications for Public Works Construction, 1986.
- 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.
- The existing utility locations indicated are approximate. It shall be the contractor's responsibility to pot hole and field check to determine actual locations of lines, fittings or connections as an incidental requisite to the construction contract.
- The contractor must submit a construction sign posting and barricading plan to Traffic Engineering prior to construction to receive a barricading permit.
- 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 or Surveyor so that the conflict can be resolved with a minimum amount of delay.
- The contractor shall be responsible for protecting, supporting and maintaining in service all existing utilities.
- Any existing utilities or services lines that do not require relocation and are damaged by the contractor shall be removed and replaced at the contractor's expense. This expense shall be considered incidental to the project and no separate payment will be made.
- All utilities and utilities service lines shall be installed prior to paving.
- Backfill compaction shall be according to specified street use.
- Tack coat requirements shall be according to specified street use.
- Sidewalks and wheelchair ramps within the curb returns shall be constructed wherever a new curb return is constructed.
- If curb is depressed for a driveway or a handicap ramp, the driveway or ramp shall be constructed prior to acceptance of the curb and gutter.
- All storm drainage facilities shall be completed prior to final acceptance.
- Only Water Systems Division Personnel are authorized to operate existing valves, fire hydrants, etc. Three (3) full working days prior to proposed work shut offs, contractor shall contact and coordinate with the division personnel at 823-4200.
- For blue staking underground utilities, the contractor shall contact the Albuquerque Utility Council at 765-1234 three (3) full working days in advance.
- The following tie-in points were not field verified for locations and shall be exposed prior to construction. Notify water engineering for scheduling of survey crew to confirm exact alignment, points are as follows:
42" STA 211+27 West Project Limits
24" STA 242+58 East Project Limits
16" Stub-Out STA 214+41
- Changes in pipeline lay-out determined necessary to conform to field conditions may require additional materials not indicated on this plan. All changes shall be approved by the City of Albuquerque.
- Contractor is responsible for coordinating his activities with all other parties involved with the Paseo Del Norte Highway Project. Contractor is advised to review the following drawings for additional information:
Highway 3-2 Thru 3-4
Phasing 8-1 Thru 8-15
Bridge 5-1 Thru 5-18
Storm Drain Profiles 12-1 Thru 12-3
- Soil bearing pressure utilized for determining block bearing area is 4000lbs/sq. ft. If high ground water, disturbed or poor soil conditions exist contractor shall contact COA on instructions concerning increasing bearing area and/or providing rodding for thrust restraint.
- Contractor shall not backfill thrust blocks or anchors until such time as COA inspector has observed and verified contract requirements.
- Stationing shown on the drawings is to provide general guidance as to overall intent of horizontal/vertical alignment of waterlines. Adjustments to indicated layout may be required to suit field conditions. Contractor shall provide provision in unit prices bid for field adjustments.
- Contractor shall schedule his shop drawing submission to allow a three week review time. In addition, five copies of each submittal shall be required.

STEEL PIPE AND APPURTENANCES FOR BRIDGE CROSSING SPECIFICATIONS

- All pipe and materials shall be in accordance with AWWA C-200 standards, AWWA M-11 steel pipe manual and the requirements in Section 127 of City of Albuquerque standards.
- Specified pipe size shall be as shown on the drawings. Wall thickness shall be 375" inch for 42". All pipe, fittings, rods and thrust restraint shall be designed for 170 psi pressure.
- Interior of all pipe shall be blasted, primed, and cement mortar lined according to AWWA C-205.
- Exterior of all buried pipe shall have shop applied tape coating according to AWWA C-214 as manufactured by Polyken or equivalent.
 - Expansion Joint Assembly
 - Insulated Pipe Coupling
 - Steel Pipe Wall Sleeve
 - Standard Pipe Coupling
 - Pipe Hanger Fabrication Detail
 - Steel Piping and Appurtenances
 - Harness Lug Detail and Rods
- Expansion joint assembly shall be Rockwell Style 611 single end expansion joint with flanged ends, with chrome plated slip pipe, or equal. The expansion joint assembly shall be suitable for a water pressure of 170 psi. Expansion joint assembly shall allow 10" of axial pipe movement.
- Insulating pipe coupling shall be Rockwell Style 416, or equal. Contractor to obtain verification from Ameron concerning outside diameter of pipe before ordering coupling. Pipe coupling shall be suitable for a water pressure of 170 psi.
- Steel pipe wall sleeves shall be Thunderline Corporation Model No. WS-48-37-S, or equal. Contractor to verify length required for opening in bridge abutment. The contractor shall install link seals between the wall sleeve and 42" steel waterline. The link seals shall be Thunderline Corporation Model No. LS-500-C, or equal.
- All flanges shall be class E steel slip-on hub type fabricated in accordance with AWWA C-207.
- Pipe roll stand with base plate shall be ITT Grinnell Figure 271, or equal. The pipe roll stand shall meet the following service conditions:
 - Support a 42" steel pipe.
 - Allows waterline to freely move during expansion and contraction of steel pipe.
- Steel pipe hanger rods, plates, and harness lug material shall be ASTM A-36.
- Harness bolts shall be ASTM A-193 grade B7 and nuts shall be ASTM A-194 grade 2H.
- Any discrepancies or items needing clarification shall be brought to the attention of the engineer.
- All fittings shall be fabricated from tested pipe and dye checked according to AWWA C-208.
- Materials and workmanship shall be guaranteed from defects for a period of three (3) years from the date of substantial completion.
- Steel pipe material shall conform to the requirements of ASTM A 283 grade D, or ASTM A139 grade B or C.
- Steel pipe manufacturer shall evaluate the need and method of stiffening pipe wall at and adjacent to contact area with pipe roll. Increased wall thickness or stiffeners shall be reflected in unit prices bid.
- After filling 42" inch line with water but before pressurizing the line, the contractor shall adjust all hangers so that pipe rollers are in physical contact with the pipe.
- Contractor shall carefully align 42" pipe to pass through the bridge abutment wall sleeves so that it is centered horizontal and vertically.
- For new CCP no field wall openings to pipe will be allowed. All wall openings will be done by the pipe manufacturer at the time the pipe is made.

- The Contractor shall submit a schedule of when the placement of this 42-inch waterline is to occur on the bridge. The Contractor shall also submit an outline of his construction methods and procedures for installing the 42-inch waterline on the bridge for review. The Contractor in his submittal shall also indicate any temporary false work to be utilized in the placement of the waterline for review.

Robert B. Ball

ADDITIONAL COORDINATION REQUIREMENTS

- The Contractor shall coordinate with the Railroad Company concerning the time frame that will be available to install the steel sleeves by open cut at the various railroad crossings. The Contractor shall submit a schedule to the City of when he plans to perform said work for review. The Contractor is cautioned that the railroad crossing work must also be in conformance with the highway phasing plans.
- The Contractor shall submit a general schedule of when the connection work at station 221+27.30, 242+58.15, 214+41.50 and the lowering of the 8" and 16" waterlines will occur for review. Once a tentative schedule is mutually agreed upon the Contractor shall give 7 days advance notice to the City of when a water system shutdown will be required.

STEEL CASING PIPE AT RAILROAD CROSSINGS

- The steel casing pipes shall be of the wall thickness indicated on the plans.
- The casing pipe shall be fabricated from ASTM A139 Grade C steel.
- Exterior surface of the casing pipe shall be commercially blasted per SSPC, SP6 primed with polyurethane 919-40 primer, wrapped with polyurethane wrap 989-20 and outer wrapped with 956-30.
- Interior surface of casing pipe shall be coated with TNEMEC 46H-413 Hi-Build TNEMEC Tar (Coal Tar Epoxy) 14-20 dry film mils.
- Water and sanitary sewer lines shall be installed inside the casing pipe as indicated by the COA Standard Detail Drawing 2380.
- The method of end closure shall be by the utilization of PSI Standard pull-on end seals (Model S).

WATERLINE AND SEWERLINE ITEMS AND QUANTITIES

ITEM NO.	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNITS	ITEM NO.	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNITS	ITEM NO.	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNITS	ITEM NO.	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNITS
1	42" CCP DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	31	L.F.	7	16" STEEL CASING PIPE (OPEN CUT) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	505	L.F.	17	TRANSITION BACKFILL & COMPACTION FOR 16" P.V. SANITARY SEWER PIPE DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	14	L.F.	20	10" BUTTERFLY VALVE (FLANGED) W/ HORNWHEEL	1	EA
2	24" CCP DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	22	L.F.	8	10" DIP DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	40	L.F.	14	8" P.V. SANITARY SEWER PIPE DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	7	L.F.	21	10" GATE VALVE (FLANGED) BURIED	1	EA
3	16" CCP DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	175	L.F.	9	8" DIP DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	553	L.F.	15	TRANSITION BACKFILL & COMPACTION FOR 8" P.V. SANITARY SEWER PIPE DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	10	L.F.	22	8" GATE VALVE (IM3) BURIED	8	EA
4	54" STEEL CASING PIPE (OPEN CUT) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	34	L.F.	10	24" P.V. SANITARY SEWER PIPE DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	607	L.F.	16	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	5	EA	23	4" BUTTERFLY VALVE (FLANGED) W/ HORNWHEEL	2	EA
5	42" STEEL PIPE (BRIDGE CROSSING) INCLUDES PIPE ROLL STAND COMPLETE	110	L.F.	11	TRUNKING BACKFILL & COMPACTION FOR 24" P.V. SANITARY SEWER PIPE DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	462	L.F.	17	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	2	EA	24	VALVE BOX TYPE A TO 6" DEEP	9	EA
6	24" STEEL CASING PIPE (OPEN CUT) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	25	L.F.	12	18" P.V. SANITARY SEWER PIPE DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	319	L.F.	18	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	2	EA	25	VALVE BOX TYPE B TO 6" DEEP	6	EA
								19	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	20	L.F.	26	42" STEEL EXPANSION COUPLING (SPECIAL)	1	EA
								20	42" INSULATED STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	21	L.F.	27	42" STEEL PIPE COUPLING (SPECIAL)	5	EA
								21	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	22	L.F.	28	42" INSULATED STEEL PIPE COUPLING (SPECIAL)	2	EA
								22	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	23	L.F.	29	24" STEEL PIPE COUPLING (SPECIAL)	2	EA
								23	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	24	L.F.	30	16" STEEL PIPE COUPLING (FOR D.I. PIPE)	2	EA
								24	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	25	L.F.	31	6" STEEL PIPE COUPLING (FOR D.I. PIPE)	1	EA
								25	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	26	L.F.	32	8" FLAP GATE ON BLOW-OFF	1	EA
								26	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	27	L.F.	33	FIRE HYDRANT 15" BURIED	2	EA
								27	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	28	L.F.	34	ADJUST WATER VALVE BOX	6	EA
								28	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	29	L.F.	35	40" SANITARY SEWER MANHOLE TYPE E	15	V.F.
								29	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	30	L.F.		NH 4	15	V.F.
								30	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	31	L.F.		NH 5	15	V.F.
								31	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	32	L.F.		NH 6	15	V.F.
								32	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	33	L.F.		NH 2	35	V.F.
								33	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	34	L.F.	36	SANITARY SEWER MANHOLE #1 (SPECIAL VALVE)	1	L.S.
								34	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	35	L.F.	37	ABANDONMENT OF MANHOLES	2	EA
								35	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	36	L.F.	38	MANHOLE STEPS	52	EA
								36	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	37	L.F.	39	COATING (8 MANHOLE EXTERIOR, BITUMASTIC)	2411	S.F.
								37	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	38	L.F.	40	2" AIR RELEASE VALVE	2	EA
								38	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	39	L.F.		2" AIR RELEASE VALVE		
								39	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	40	L.F.		2" AIR RELEASE VALVE		
								40	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	41	L.F.		2" AIR RELEASE VALVE		
								41	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	42	L.F.		2" AIR RELEASE VALVE		
								42	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	43	L.F.		2" AIR RELEASE VALVE		
								43	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	44	L.F.		2" AIR RELEASE VALVE		
								44	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	45	L.F.		2" AIR RELEASE VALVE		
								45	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	46	L.F.		2" AIR RELEASE VALVE		
								46	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	47	L.F.		2" AIR RELEASE VALVE		
								47	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	48	L.F.		2" AIR RELEASE VALVE		
								48	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	49	L.F.		2" AIR RELEASE VALVE		
								49	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	50	L.F.		2" AIR RELEASE VALVE		
								50	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	51	L.F.		2" AIR RELEASE VALVE		
								51	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	52	L.F.		2" AIR RELEASE VALVE		
								52	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	53	L.F.		2" AIR RELEASE VALVE		
								53	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	54	L.F.		2" AIR RELEASE VALVE		
								54	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	55	L.F.		2" AIR RELEASE VALVE		
								55	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	56	L.F.		2" AIR RELEASE VALVE		
								56	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	57	L.F.		2" AIR RELEASE VALVE		
								57	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	58	L.F.		2" AIR RELEASE VALVE		
								58	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	59	L.F.		2" AIR RELEASE VALVE		
								59	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	60	L.F.		2" AIR RELEASE VALVE		
								60	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	61	L.F.		2" AIR RELEASE VALVE		
								61	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	62	L.F.		2" AIR RELEASE VALVE		
								62	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	63	L.F.		2" AIR RELEASE VALVE		
								63	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	64	L.F.		2" AIR RELEASE VALVE		
								64	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	65	L.F.		2" AIR RELEASE VALVE		
								65	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	66	L.F.		2" AIR RELEASE VALVE		
								66	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	67	L.F.		2" AIR RELEASE VALVE		
								67	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	68	L.F.		2" AIR RELEASE VALVE		
								68	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	69	L.F.		2" AIR RELEASE VALVE		
								69	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	70	L.F.		2" AIR RELEASE VALVE		
								70	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	71	L.F.		2" AIR RELEASE VALVE		
								71	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	72	L.F.		2" AIR RELEASE VALVE		
								72	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	73	L.F.		2" AIR RELEASE VALVE		
								73	42" STEEL PIPE COUPLING (SPECIAL) DEPTH 0'-8" 8'-9" 9'-10" 10'-11" 11'-12" 12'-13" 13'-14" 14'-15" 15'-16" 16'-17" 17'-18" 18'-19"	74	L.F.				

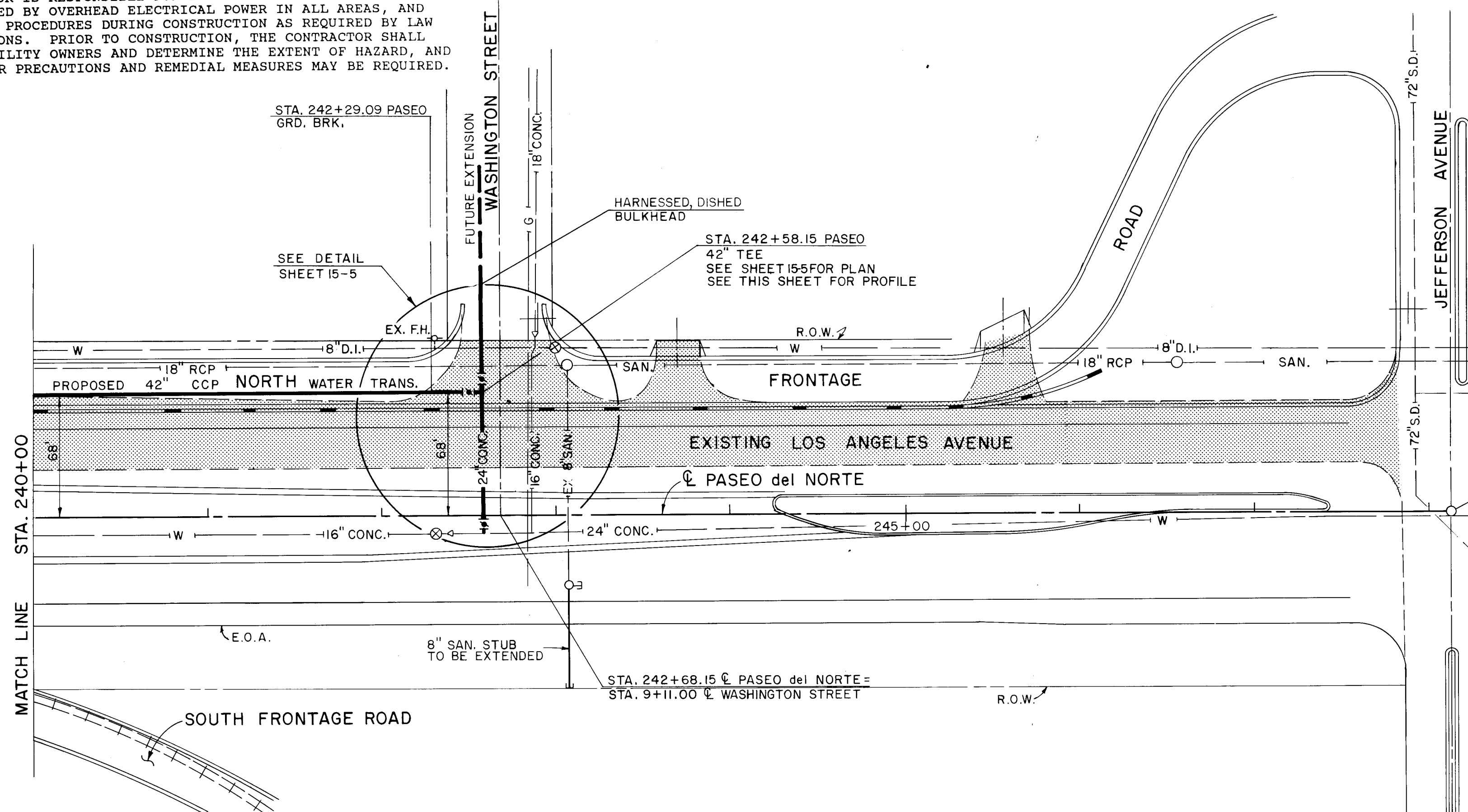
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NOTE: EXISTING UTILITY LOCATIONS ARE APPROXIMATE. LOCATION OF EXISTING UTILITIES TO BE VERIFIED PRIOR TO CONSTRUCTION.

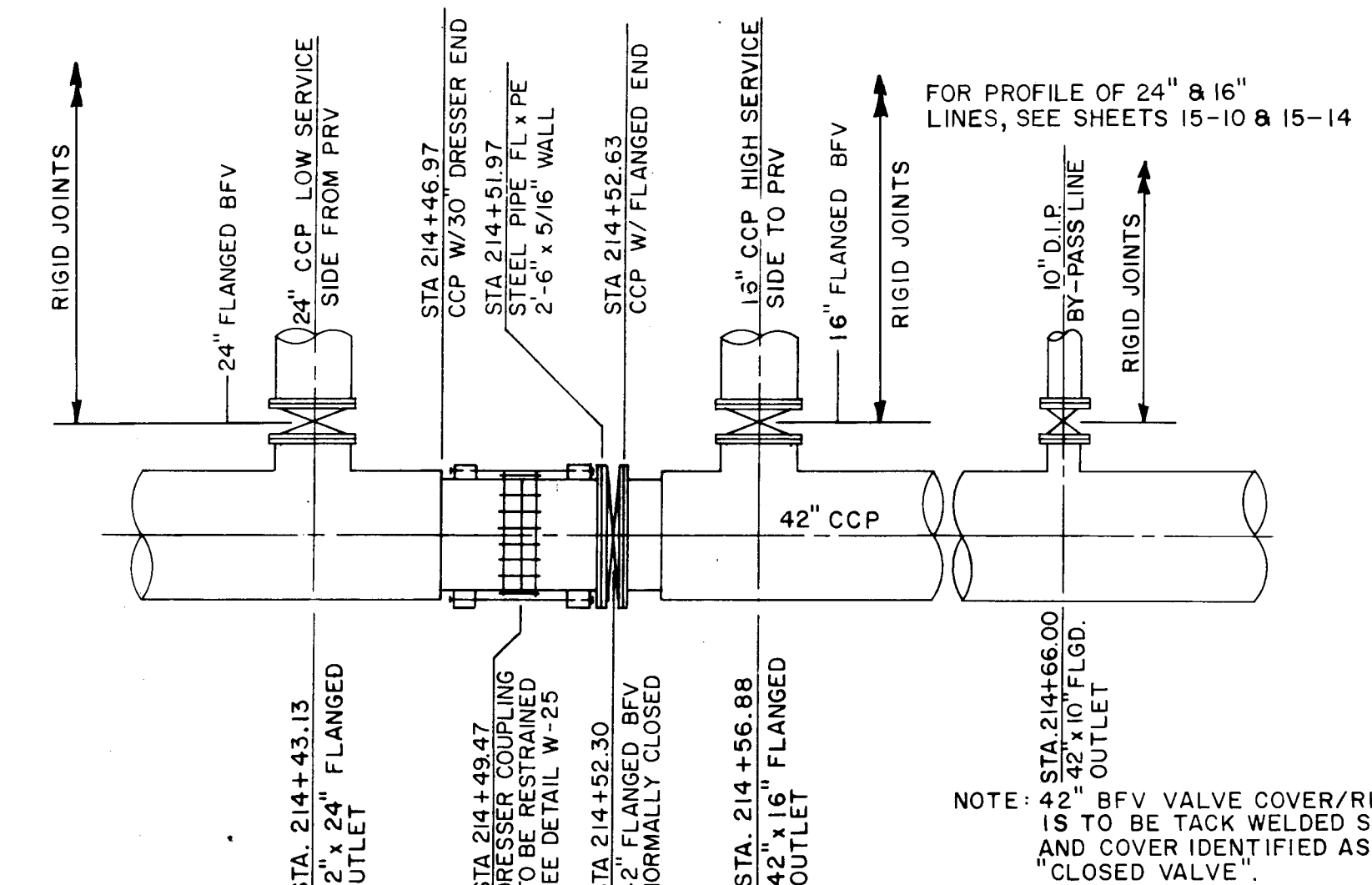
NOTE: FOR SANITARY SEWER STUB-OUT PROFILES, SEE SHEET 15-16.

THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXTENT OF ANY HAZARD CREATED BY OVERHEAD ELECTRICAL POWER IN ALL AREAS, AND SHALL FOLLOW PROCEDURES DURING CONSTRUCTION AS REQUIRED BY LAW AND REGULATIONS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL MEET WITH UTILITY OWNERS AND DETERMINE THE EXTENT OF HAZARD, AND TAKE WHATEVER PRECAUTIONS AND REMEDIAL MEASURES MAY BE REQUIRED.



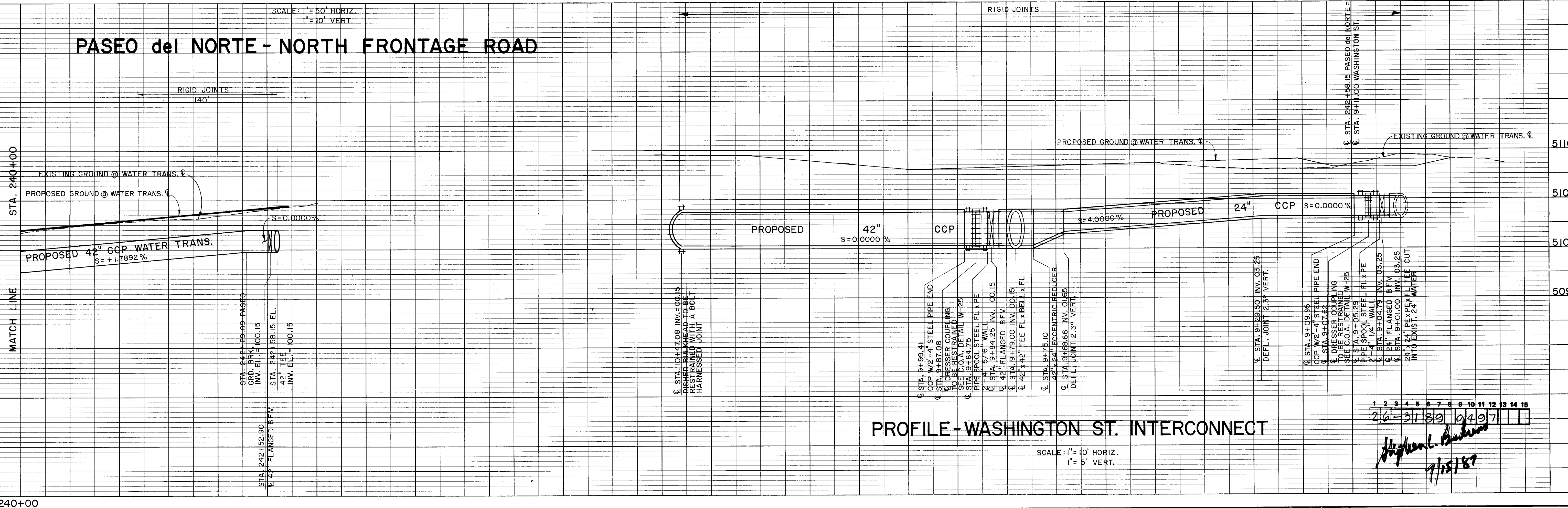
AS CONSTRUCTED
NO REVISIONS ☐ REVISED ☐ VOID ☐

F.H.W.A. REGION NO.	STATE	M.P.	SHEET NO.	TOTAL SHEETS
0	NE MEXICO	SP-(M)-4054(204)	15-4	



16" & 24" FLANGED OUTLETS AT PRV VAULT
STA. 214+50 ±
N.T.S.

PASEO del NORTE - NORTH FRONTAGE ROAD



PROFILE - WASHINGTON ST. INTERCONNECT

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

26-3183 0477

7/15/87

DATE: MAY 22, 1987

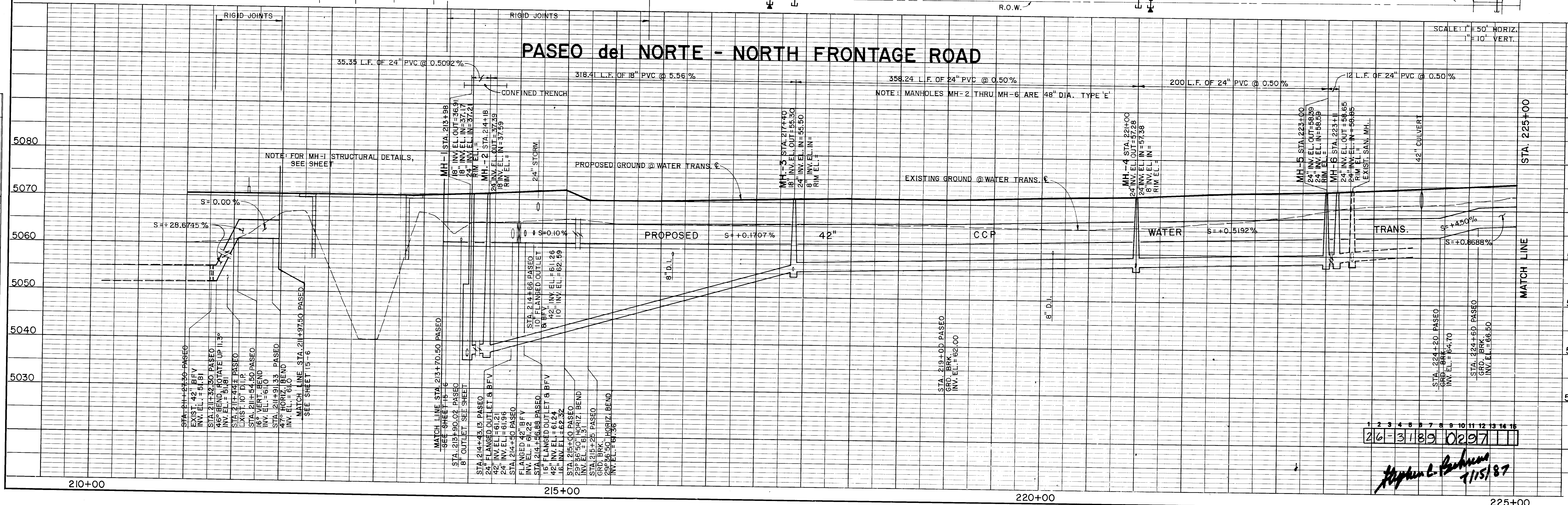
URS CORPORATION

Albuquerque Santa Fe

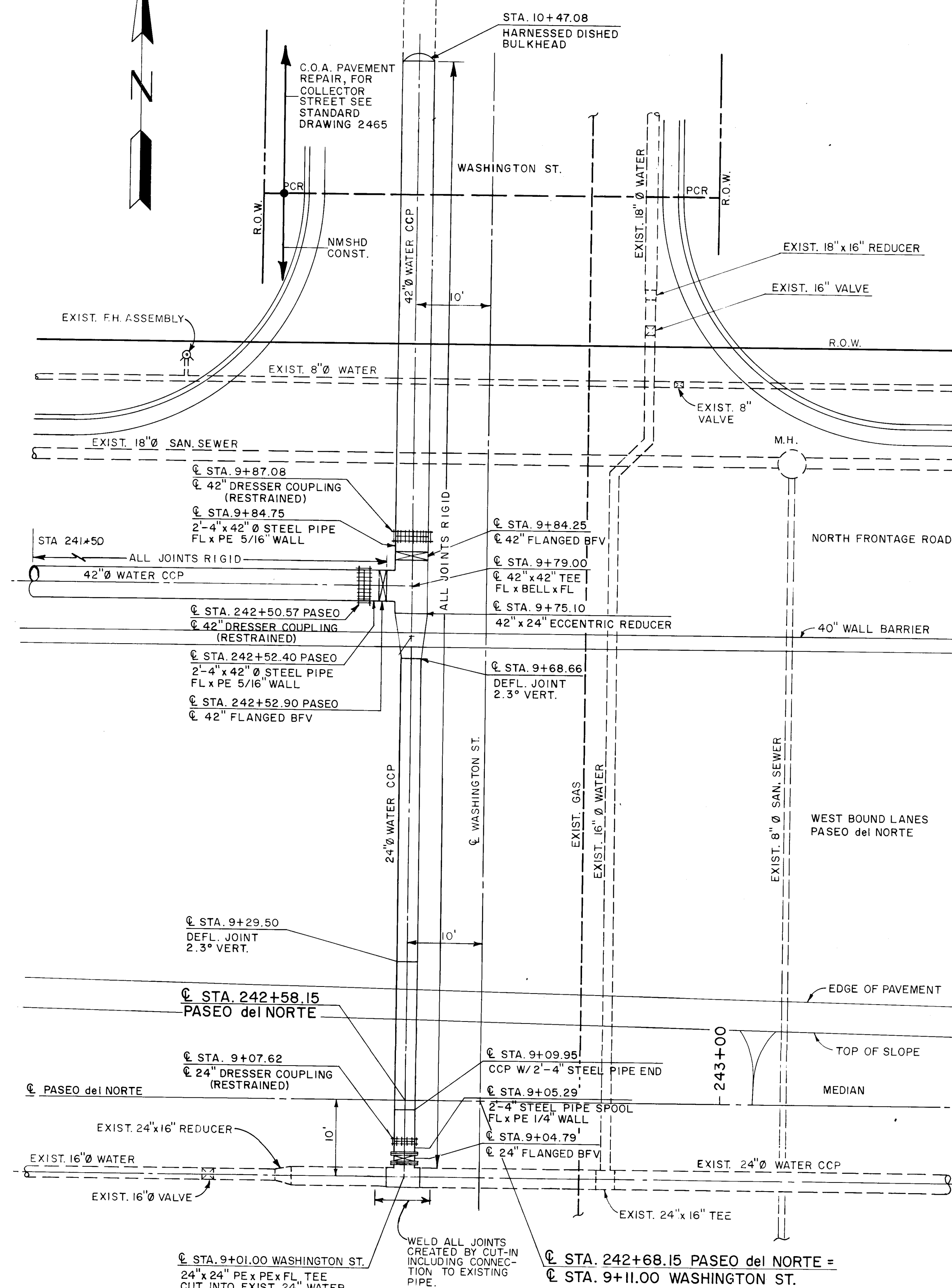
N.M. PROJECT NO. SP-(M)-4054(204)

SHEET NO. 15-4

PROFILE	SURVEYED.....	BY.....	DATE.....
	PLOTTED.....		
NOTE BOOK	GRADES CHECKED.....		
	B. M.'s NOTED.....		
	STRUCTURE NOTATIONS CHECKED.....		



F.H.W.A. Region No.	STATE	NMP	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO	SP-(M)- 4054(204)	15-5	

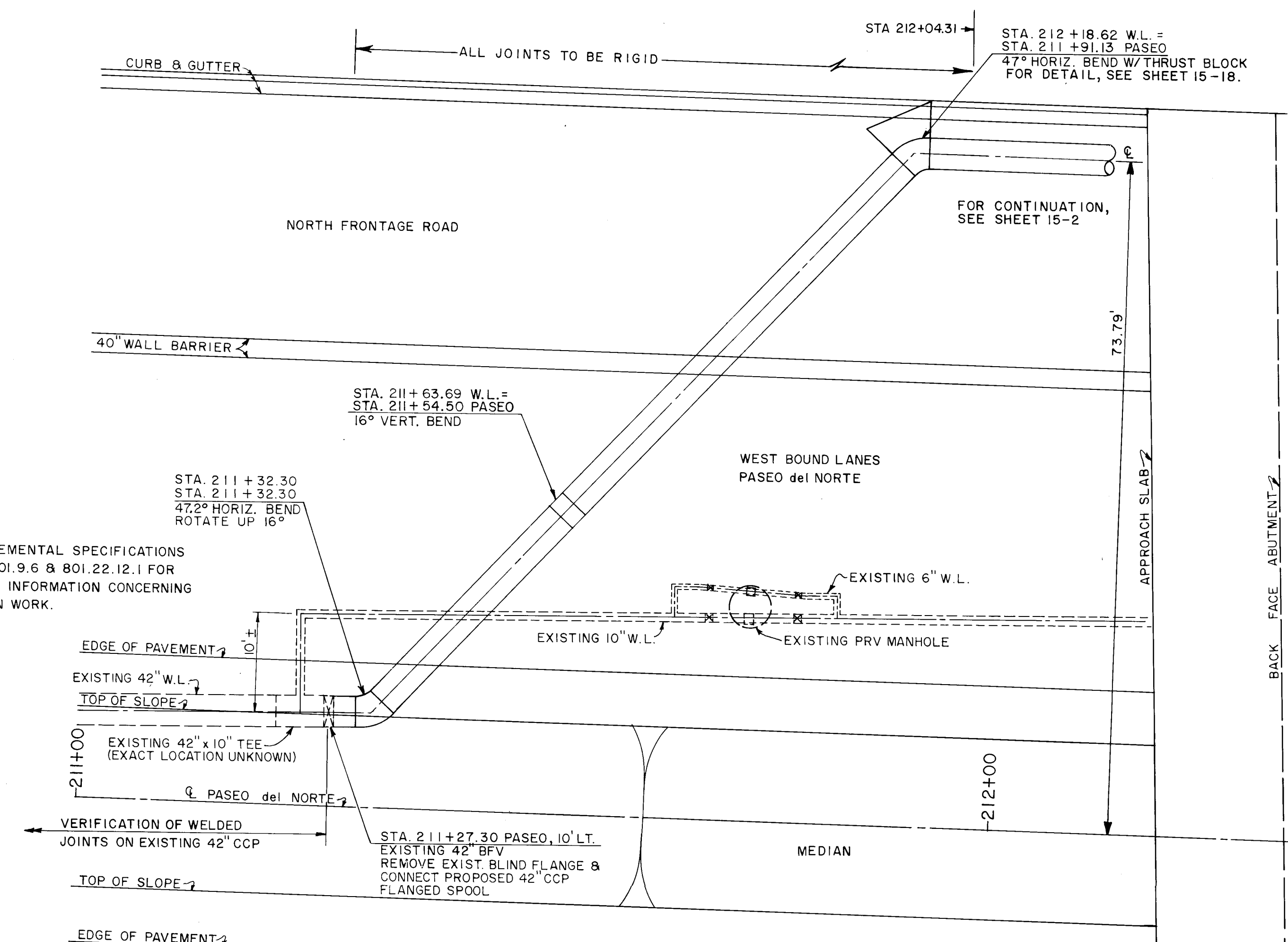


SEE SUPPLEMENTAL SPECIFICATIONS
SECTIONS 801.9.6 & 801.22.12.2 FOR
ADDITIONAL INFORMATION CONCERNING
CUT-IN.

FOR PROFILE, SEE SHEET 15-4

PLAN DETAIL
WASHINGTON STREET
INTERCONNECT

SCALE: 1" = 10'



SEE SUPPLEMENTAL SPECIFICATIONS
SECTIONS 801.9.6 & 801.22.12.1 FOR
ADDITIONAL INFORMATION CONCERNING
CONNECTION WORK.

NOTE: REMOVE AND SALVAGE ALL PRV VALVES, MANHOLE RIM, MANHOLE COVER AND ALL BURIED VALVES ADJACENT TO THE VAULT. DECOVER SALVAGE VALVES, FITTINGS, COVER & RIM TO THE CITY YARDS. CAP & BLOCK THE EXISTING 10" LINE. THE CONTRACTOR SHALL SCHEDULE THIS WORK AFTER THE NEW PRV VAULT & 42" WATER LINE HAS BEEN PLACED INTO SERVICE. SEE SUPPLEMENTAL SPECIFICATION SECTION 801.22.51 FOR ADDITIONAL INFORMATION.

PLAN DETAIL OF CONNECTION
AT STATION 211+27.30

SCALE : 1" = 10'

FOR PROFILE, SEE SHEET 15-2

3			
2			
1			
No.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			

NEW MEXICO
STATE HIGHWAY DEPARTMENT
WASHINGTON ST.

INTERCONNECT

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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BRUNING 44.132 62698

DESIGNED BY _____ DRAWN BY _____
CHECKED BY _____

DATE: MAY 22, 1987

URS CORPORATION  Albuquerque
Santa Fe

NM PROJECT NO SP-(M)-4054(204) SHEET NO 15-5

NOTE: EXISTING UTILITY LOCATIONS ARE APPROXIMATE.
LOCATION OF EXISTING UTILITIES TO BE VERIFIED
PRIOR TO CONSTRUCTION.

AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

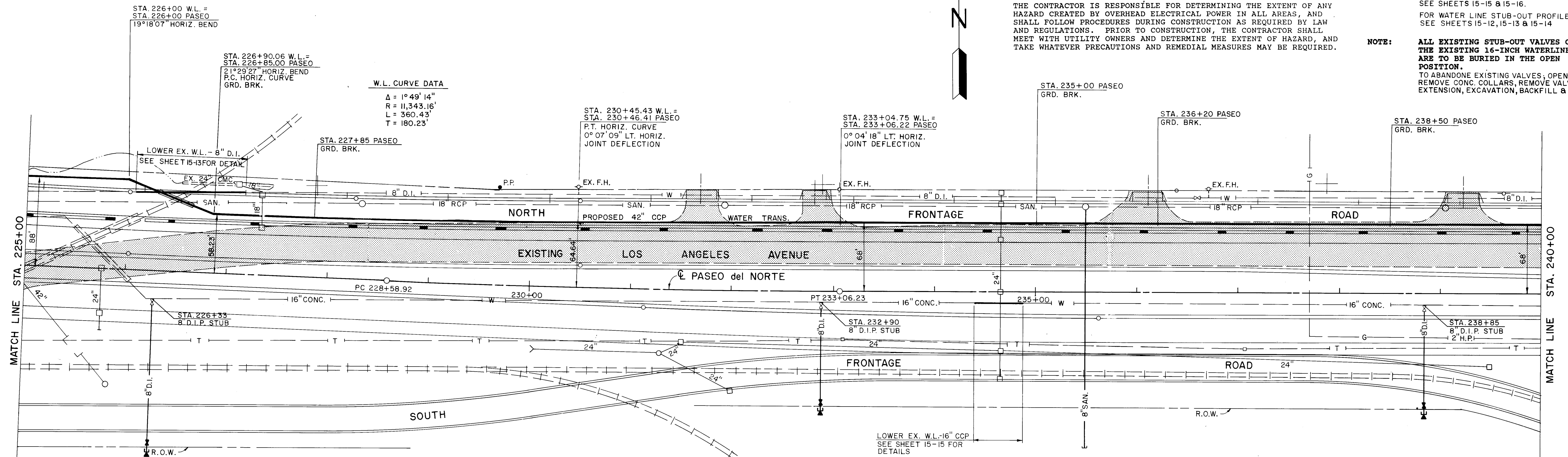
F.H.W.A. REGION NO.	STATE	N M P	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO	SP-(M)-4054(204)	15-3	

THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXTENT OF ANY
HAZARD CREATED BY OVERHEAD ELECTRICAL POWER IN ALL AREAS, AND
SHALL FOLLOW PROCEDURES DURING CONSTRUCTION AS REQUIRED BY LAW
AND REGULATIONS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL
MEET WITH UTILITY OWNERS AND DETERMINE THE EXTENT OF HAZARD, AND
TAKE WHATEVER PRECAUTIONS AND REMEDIAL MEASURES MAY BE REQUIRED.

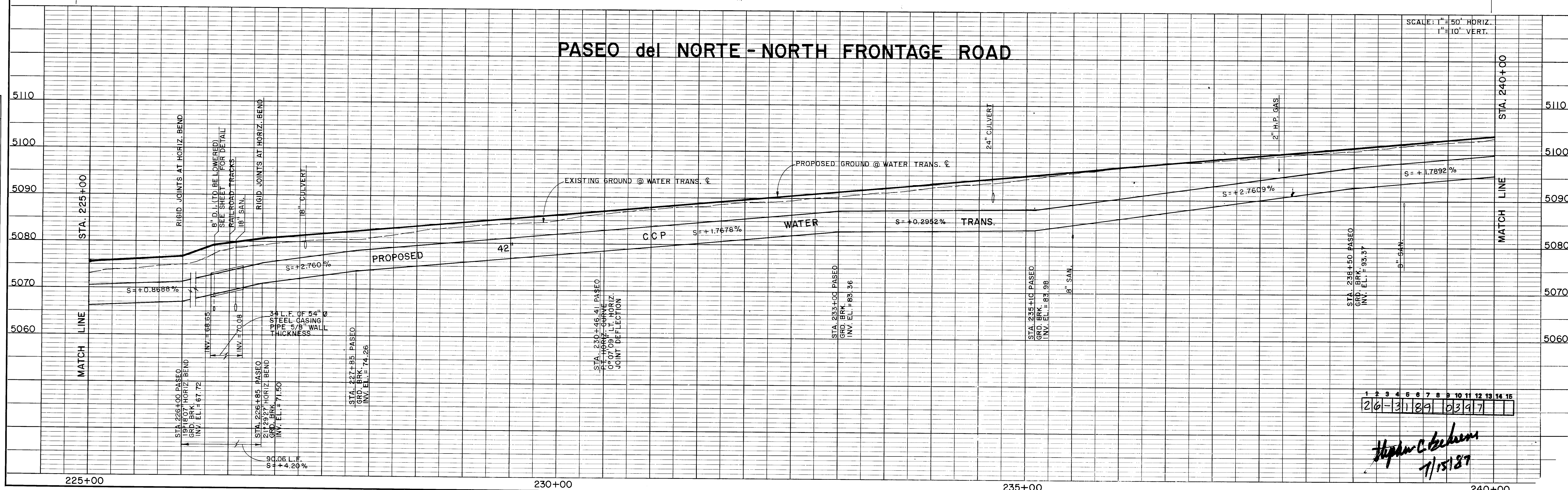
NOTE: FOR SANITARY SEWER STUB-OUT PROFILES,
SEE SHEETS 15-15 & 15-16.
FOR WATER LINE STUB-OUT PROFILES,
SEE SHEETS 15-12, 15-13 & 15-14

NOTE: ALL EXISTING STUB-OUT VALVES ON
THE EXISTING 16-INCH WATERLINE
ARE TO BE BURIED IN THE OPEN
POSITION.
TO ABANDONE EXISTING VALVES, OPEN VALVES,
REMOVE CONC. COLLARS, REMOVE VALVE CAN
EXTENSION, EXCAVATION, BACKFILL & COMPACT.

PLAN
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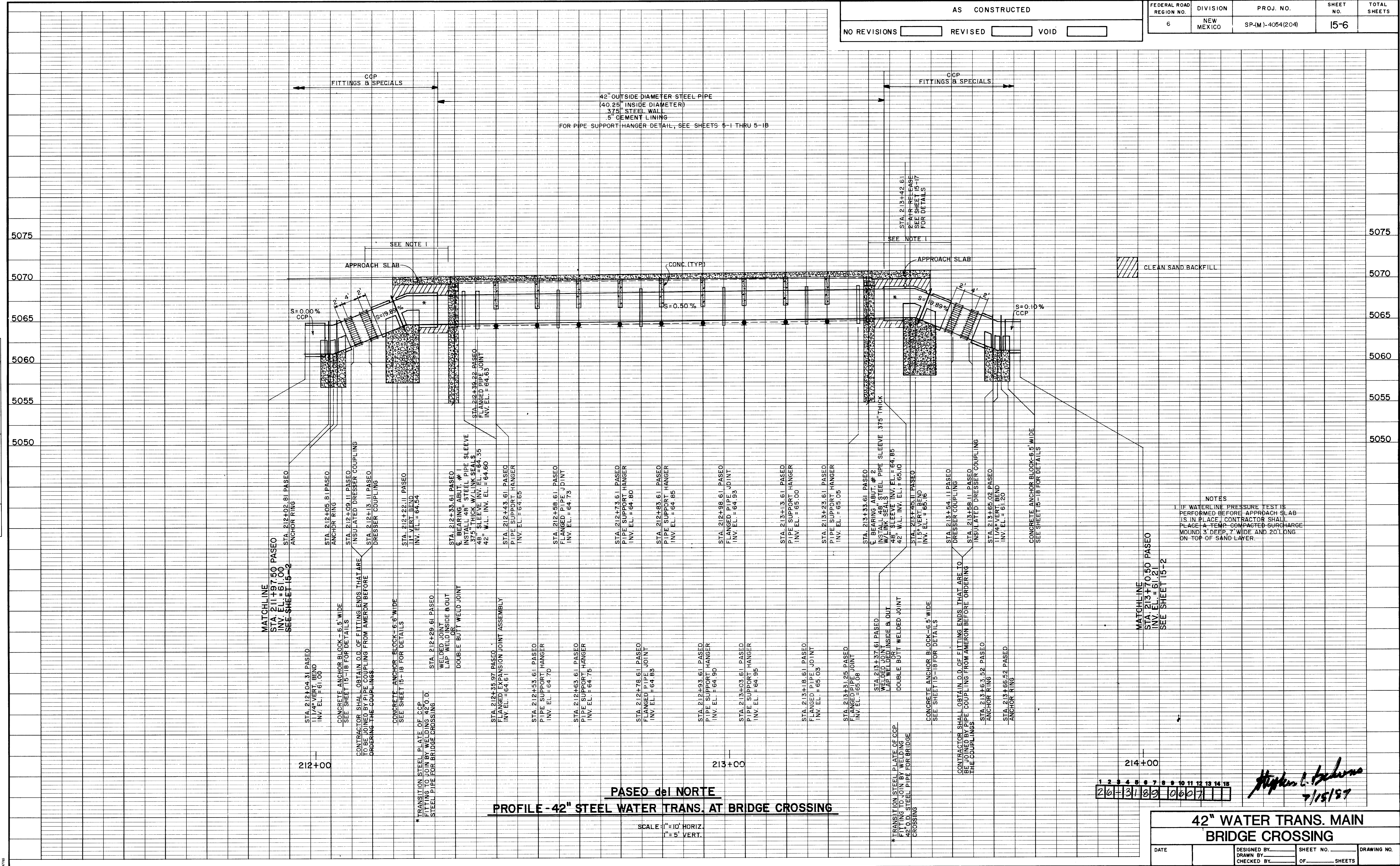
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Hipman C. Beckman
7/15/87

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AS CONSTRUCTED

NO REVISIONS ☐ REVISED ☐ VOID ☐

FEDERAL ROAD REGION NO. 6	DIVISION NEW MEXICO	PROJ. NO. SP-(M)-4054(204)	SHEET NO. 15-6	TOTAL SHEETS
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DATE: MAY 22, 1987

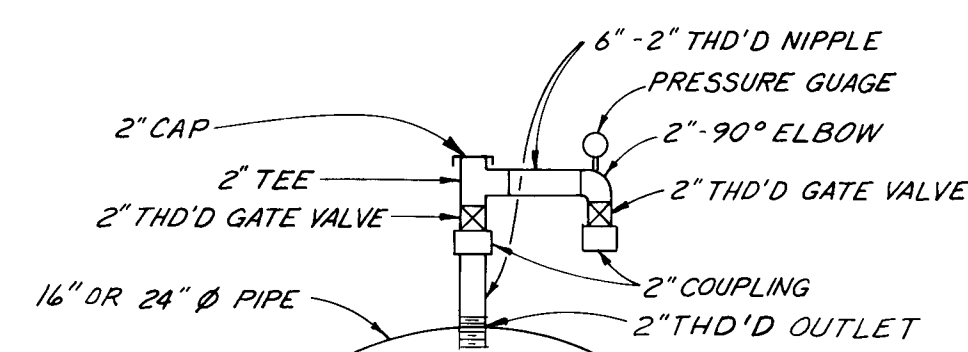
URS CORPORATION

Albuquerque Santa Fe

NM PROJECT NO. SP-(M)-4054(204)

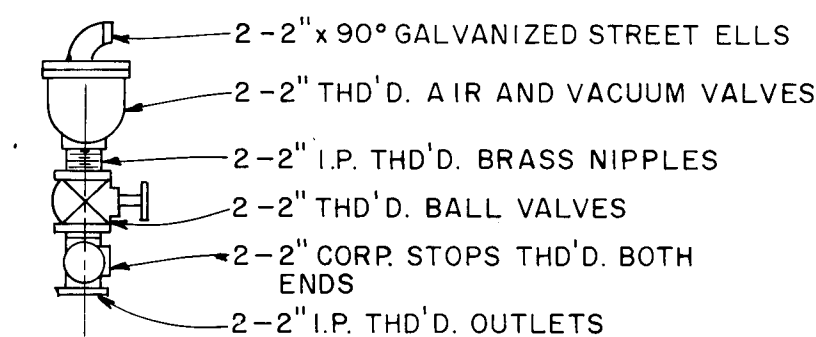
SHEET NO. 15-6

F.M.W.A. Region No.	STATE	NMP	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO	SP-(M)- 4054(204)	15-7	



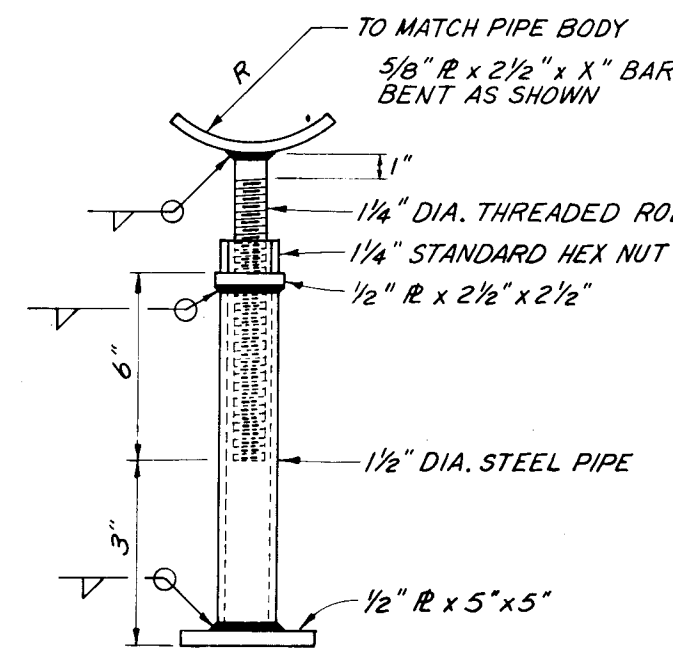
PRESSURE GAUGE/ DRAIN DETAIL

NOTE: PRESSURE GAUGE SHALL BE ASHCROFT #1009, 2 1/2" DIAL, 0-200 RANGE, STEM MOUNTED OR APPROVED EQUIVALENT.



TYPICAL VAULT AIR RELEASE

NOTE: FOR SECTIONS, SEE SHEET 15-8.

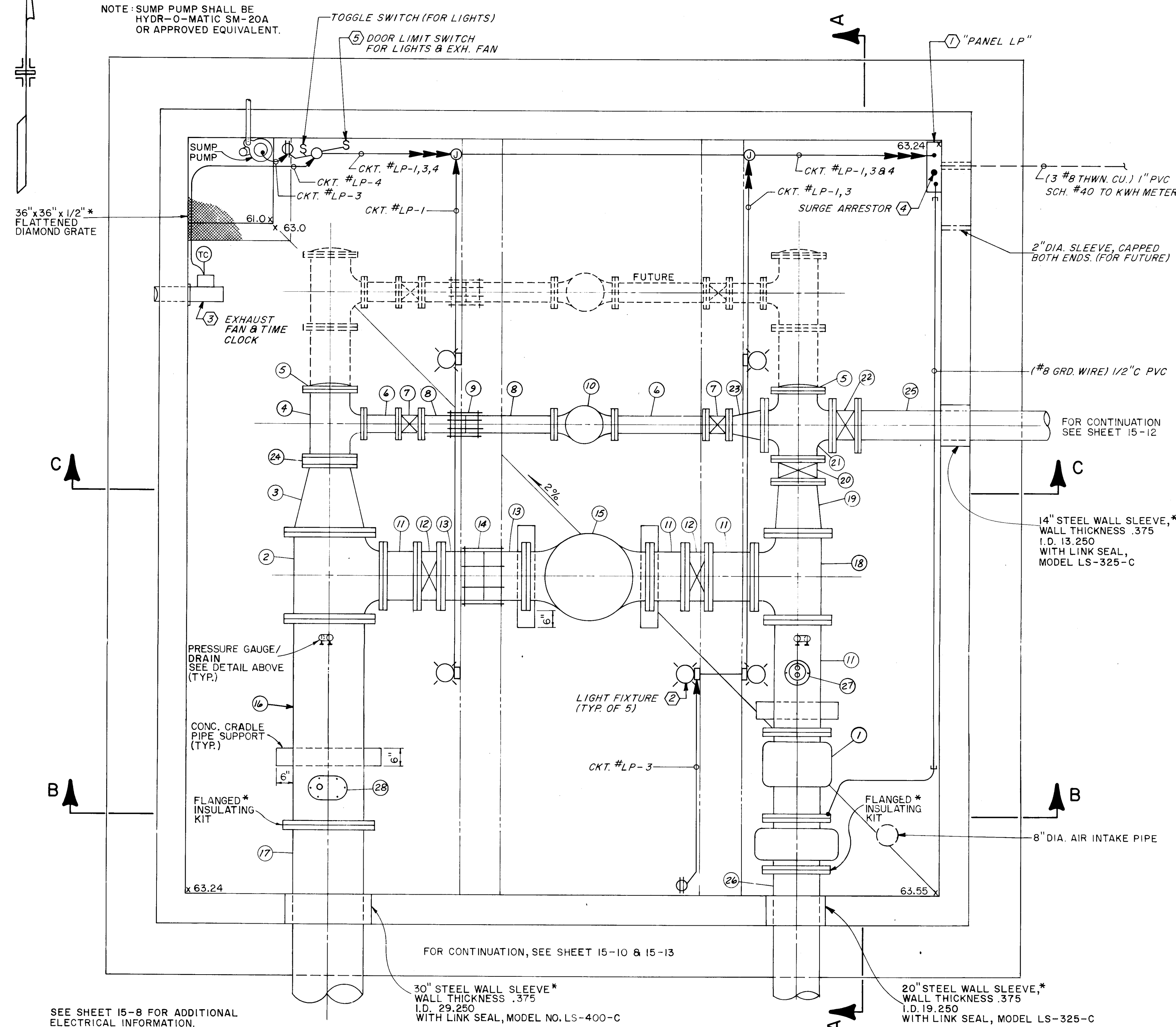


ADJUSTABLE PIPE SUPPORT

NOT TO SCALE

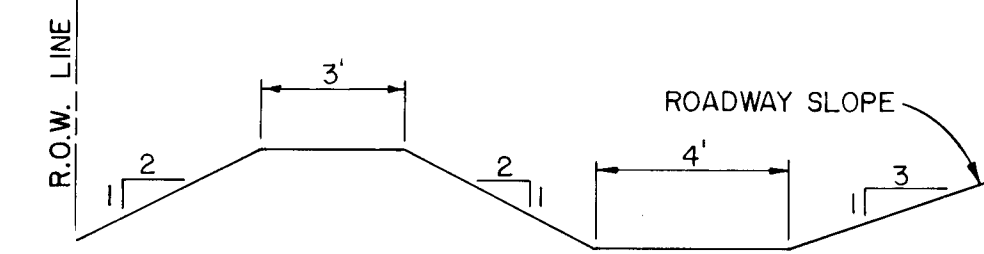
**PLAN VIEW
PRESSURE REDUCING VALVE VAULT**

SCALE: 1/2" = 1'-0"



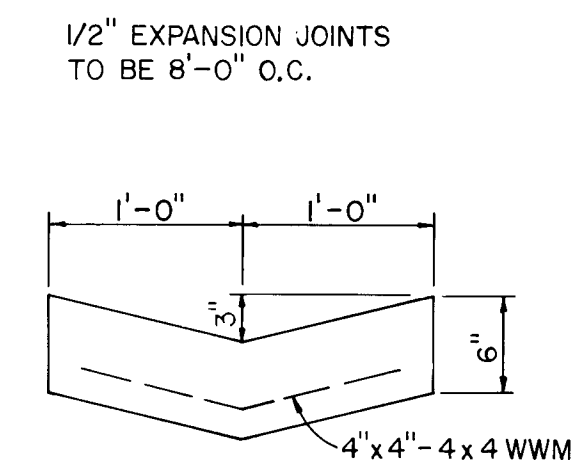
SEE SHEET 15-8 FOR ADDITIONAL ELECTRICAL INFORMATION.

* TO BE INCLUDED IN PRV VAULT LUMP SUM.



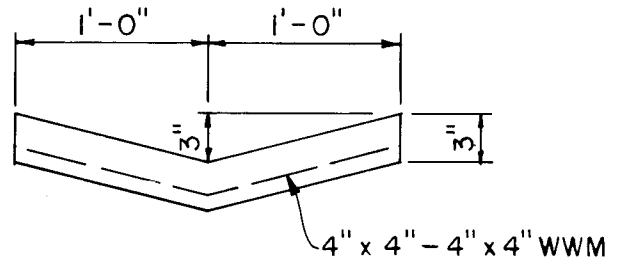
SECTION A-A

NOT TO SCALE



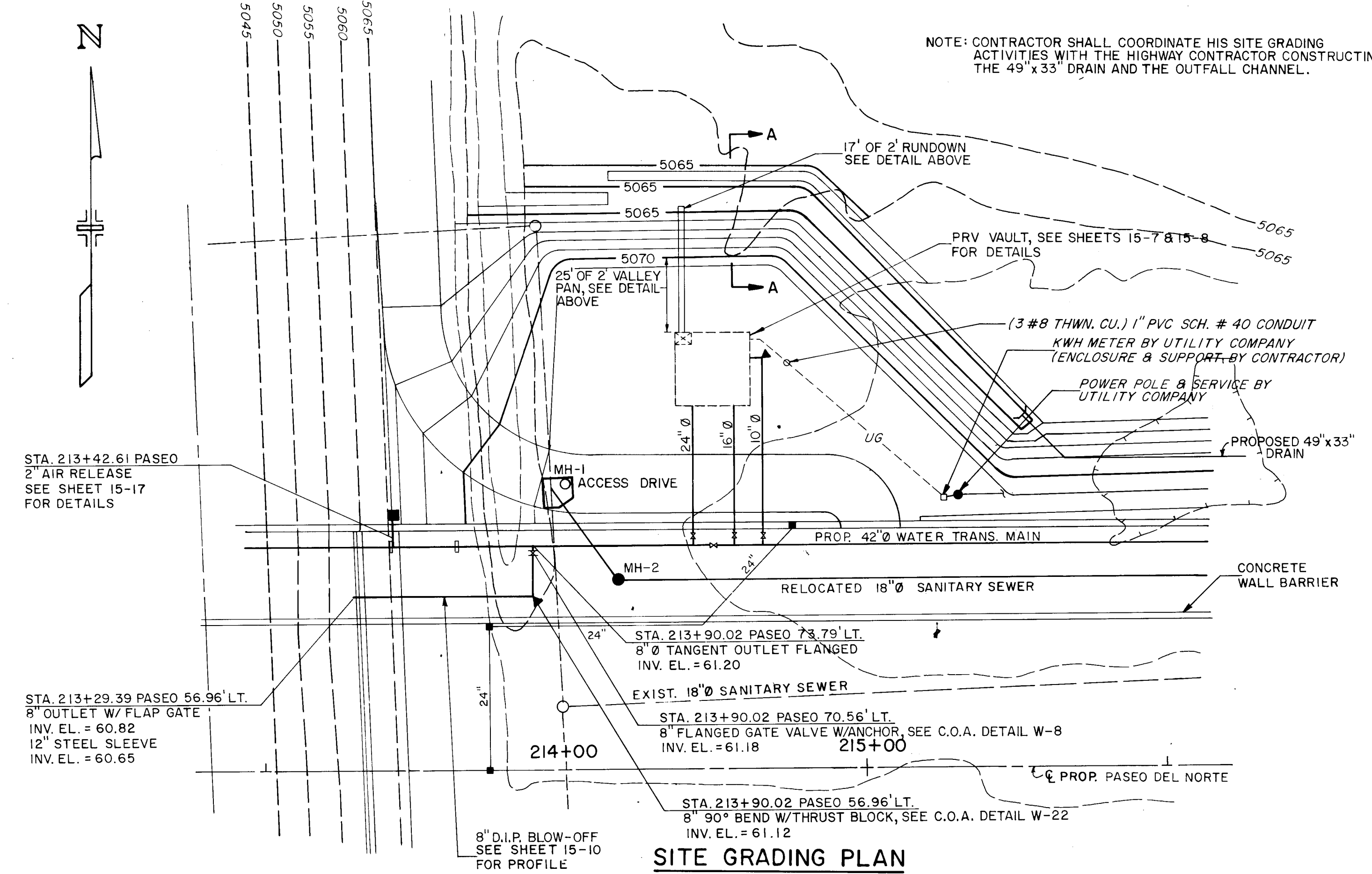
2' VALLEY PAN DETAIL

SCALE: 1" = 1'-0"



2' RUNDOWN DETAIL

SCALE: 1" = 1'-0"



SITE GRADING PLAN

PRESSURE REDUCING VALVE VAULT

SCALE: 1" = 30'

PIPE SCHEDULE

ITEM NO.	DESCRIPTION (D.I.P. except as noted)	QUANTITY
1	16" FLANGED DIRECT DRIVE TURBINE METER (MAINLINE TURBINE)	1
2	24" x 16" FLANGED x FLANGED TEE	2
3	24" x 12" FLANGED x FLANGED REDUCER	2
4	12" x 6" FLANGED x FLANGED TEE	2
5	12" BLIND FLANGE	2
6	6" FLANGED x FLANGED SPOOL	3
7	6" FLANGED BUTTERFLY VALVE W/ HAND WHEEL	2
8	6" FLANGED x P.E. PIPE	2
9	6" FLEXIBLE PIPE COUPLING (RESTRAINED)	1
10	6" FLANGED PRESSURE REDUCING VALVE AND PRESSURE SUSTAINING VALVE (CLAYTON 928-011)	1
11	16" FLANGED x FLANGED SPOOL	3
12	16" FLANGED BUTTERFLY VALVE W/ HAND WHEEL	2
13	16" FLANGED x P.E. PIPE	2
14	16" FLEXIBLE PIPE COUPLING (RESTRAINED)	1
15	16" FLANGED PRESSURE REDUCING VALVE AND PRESSURE SUSTAINING VALVE (CLAYTON 928-011)	1
16	24" FLANGED x FLANGED SPOOL	1
17	24" FLANGED x P.E. SPOOL	2

ITEM NO.	DESCRIPTION (D.I.P. except as noted)	QUANTITY
18	16" x 16" FLANGED x FLANGED TEE	1
19	16" x 12" FLANGED x FLANGED REDUCER	1
20	12" FLANGED BUTTERFLY VALVE W/ HAND WHEEL	1
21	12" x 10" FLANGED x FLANGED CROSS	1
22	10" FLANGED BUTTERFLY VALVE W/ HAND WHEEL	1
23	10" x 6" FLANGED x FLANGED REDUCER	1
24	12" x 2" FLANGED FILLER	1
25	10" FLANGED x P.E. SPOOL	1
26	16" FLANGED x P.E. SPOOL	1
27	2" AIR RELEASE VALVE (ARCO NO. 200)	1
28	2" COMB. AIR RELEASE VALVE (ARCO NO. 145C)	1

NO.	DESCRIPTION	DATE	BY
1	REVISIONS (OR CHANGE NOTICES)		

NEW MEXICO
STATE HIGHWAY DEPARTMENT

SITE GRADING PLAN

PRV VAULT PLAN VIEW

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
26	31	69	67	97										

Stephen C. Beckman
7/15/87

DATE: MAY 22, 1987

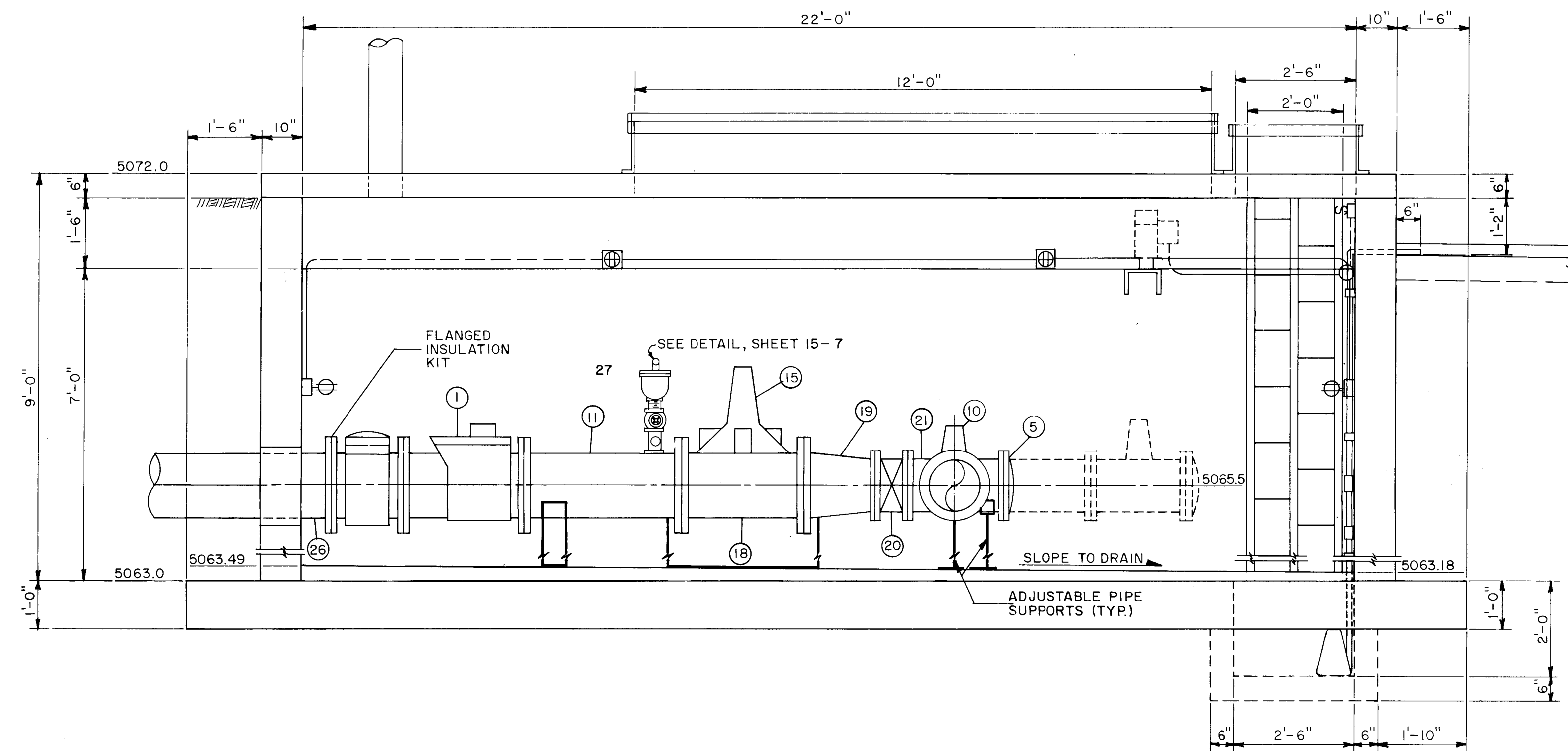
URS CORPORATION

Albuquerque
Santa Fe

NM PROJECT NO. SP-(M)-4054(204)

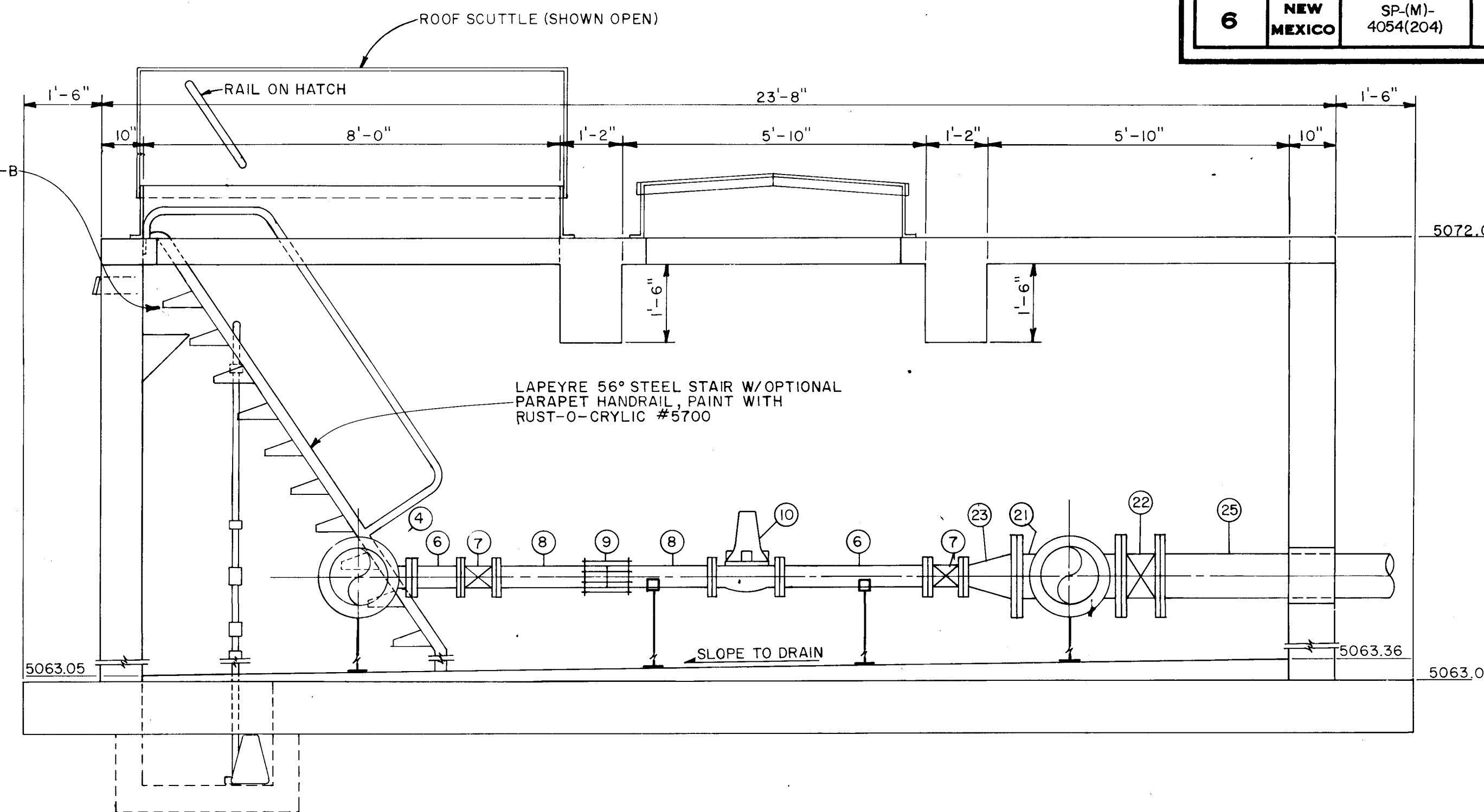
SHEET NO. 15-7

F.H.W.A. Region No.	STATE	NMP SP-(M)- 4054(204)	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		15-8	



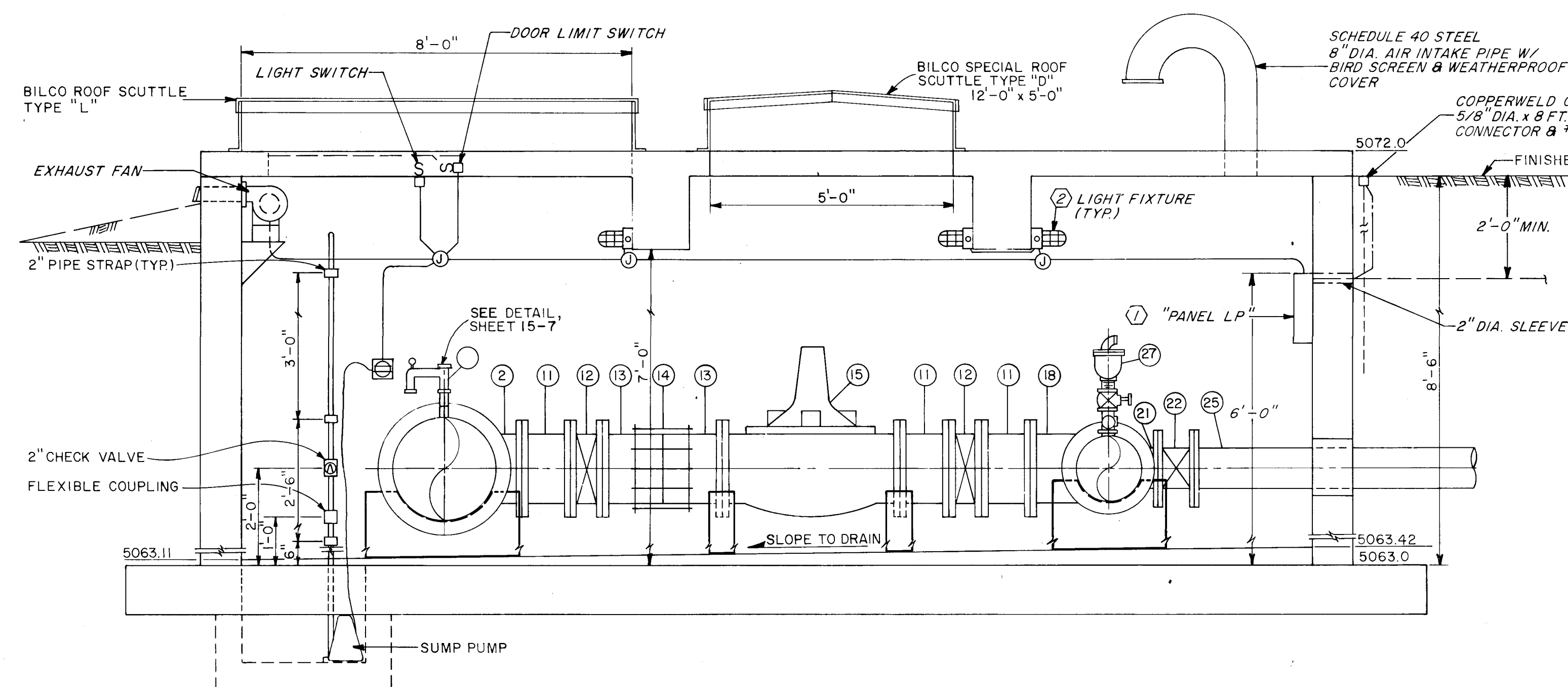
SECTION A-A
SCALE: 1/2" = 1'-0"

EXHAUST FAN IS SHOWN IN SECTION B-B FOR CLARITY



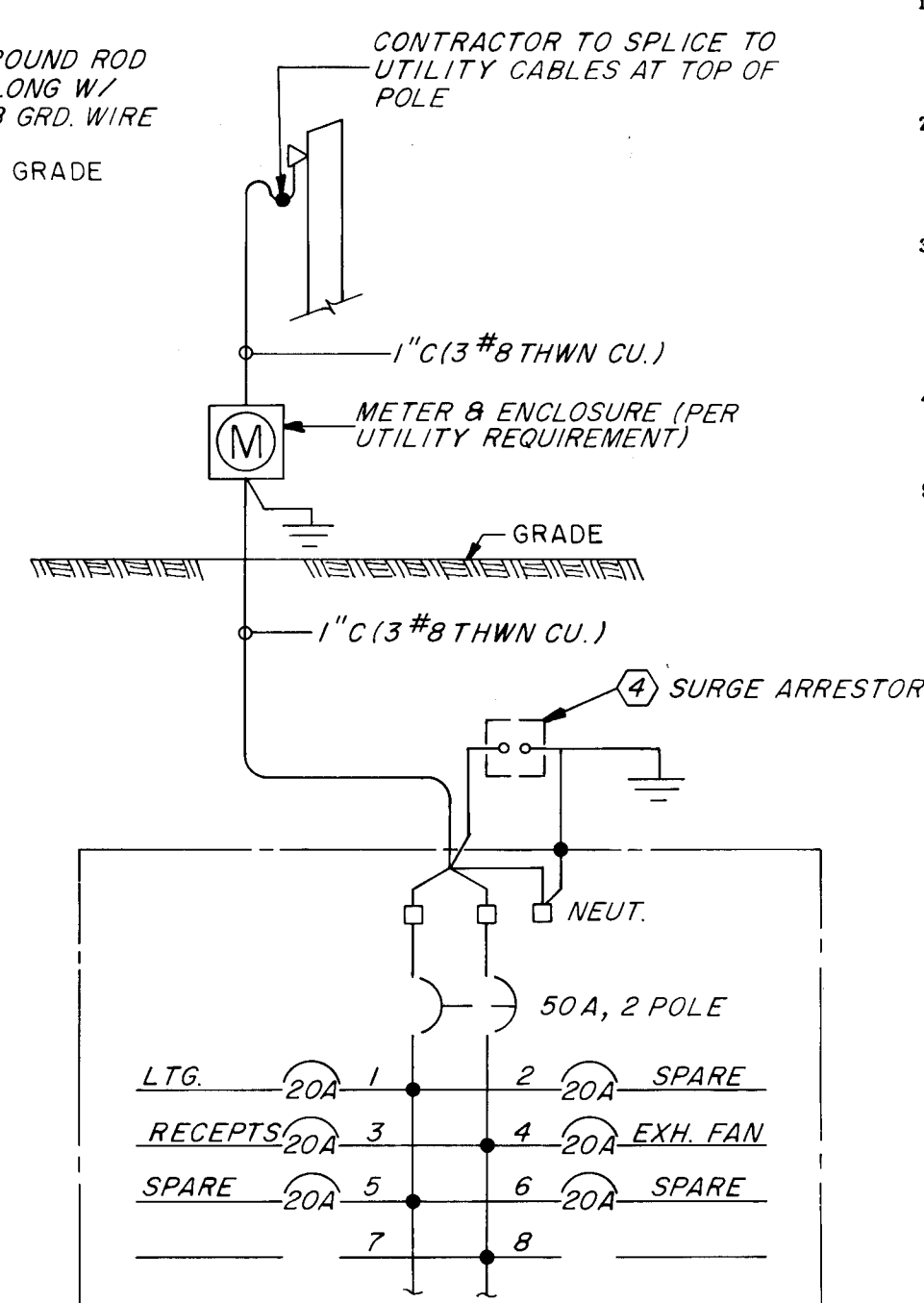
SECTION C-C
SCALE: 1/2" = 1'-0"

SEE SHEET 15-7 FOR PIPE SCHEDULE



SECTION B-B
SCALE: 1/2" = 1'-0"

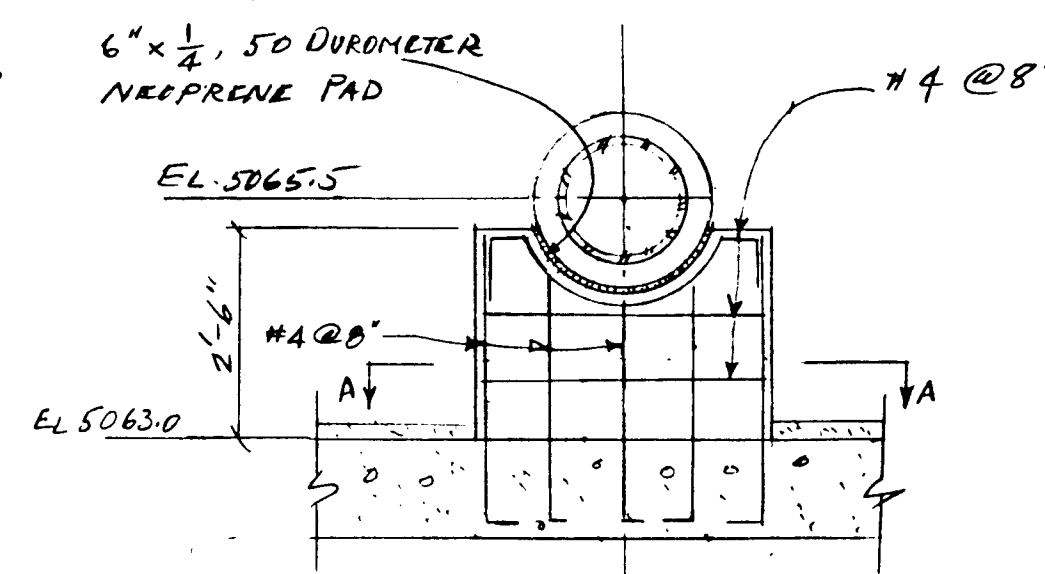
NOTE: 8" DIA. AIR INTAKE PIPE SHALL HAVE HIGH-BUILD EPOXYLINE COATING (TNEEC SERIES 66) COLOR YELLOW.



① PANEL "LP" CKT. SCHEDULE
ELECTRICAL ONE-LINE DIAGRAM

ELECTRICAL MATERIAL LIST

- PANEL BOARD FOR SURFACE MOUNTING WITH HING DOOR. 120/240 VOLT, 10, 3 WIRE SERVICE, 100 AMP MAINS WITH 20 AMP 2 POLE MAIN BREAKER AND (6) 20 AMP, 1 POLE BOLT ON BRANCH BREAKERS.
- VAPORTIGHT LIGHT FIXTURE WITH GLOBE, GUARD AND 150 WATT LAMP FOR SURFACE MOUNTING MFG; STONCO CAT. #VCL121GC.
- EXHAUST FAN 5 1/4" DIA. WHEEL, DIRECT DRIVE 396 CFM AT 1/4" STATIC PRESSURE, MOTOR 1530 RPM 120 VAC, 1 PHASE, 60 CYCLE THERMAL PROTECTED. 24 HOUR TIME CLOCK WITH MULTI ADJUSTABLE TIME SETTINGS MFG; TORK MODEL #8001. CONNECT TO CYCLE EXHAUST FAN PER SELECTED TIMING CYCLE.
- SURGE ARRESTOR RATED 240 VAC, 60 CYCLE 1 PHASE FOR SURFACE MOUNTING MFG; G.E. MODEL #9L15DCB002.
- LIMIT SWITCH 2 POLE, 10 AMP RATED CONTACTS 120 VAC WITH ADJUSTABLE ARM SWITCH SHOULD BE MOUNTED BELOW DOOR, WHEN DOOR IS OPENED THE SWITCH SHOULD TURN ON THE LIGHTS AND START THE EXHAUST FAN.



ELECTRICAL NOTES

- CONDUIT INSIDE VAULT SHALL BE 3/4" GALVANIZED RIGID STEEL UNLESS OTHERWISE NOTED.
- WIRE SHALL BE #12 TYPE THWN, COPPER, 600 VOLT INSULATION UNLESS OTHERWISE NOTED.
- CONNECTIONS TO MOTORS AND DEVICES SHALL BE MADE USING 1/2" LIQUIDTIGHT FLEXIBLE CONDUIT.
- CONDUIT JUNCTION BOXES SHALL BE 4" SQUARE GALVANIZED METAL W/ LOCKNUTS AND BUSHINGS.
- ALL CONDUIT RUNS SHALL HAVE A #12 GREEN GROUND WIRE & SHALL BE USED TO GROUND ALL DEVICES.
- ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC 1987).
- RECEPTACLES & TOGGLE SWITCH SHALL HAVE WEATHERPROOF COVERS.

No.	DESCRIPTION	DATE	BY
1	REVISIONS (OR CHANGE NOTICES)		

NEW MEXICO
STATE HIGHWAY DEPARTMENT
ELEC., MECH. LAYOUT

PRV VAULT

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
26	31	109	100	107	111	112	113	114	115					

DATE: MAY 22, 1987

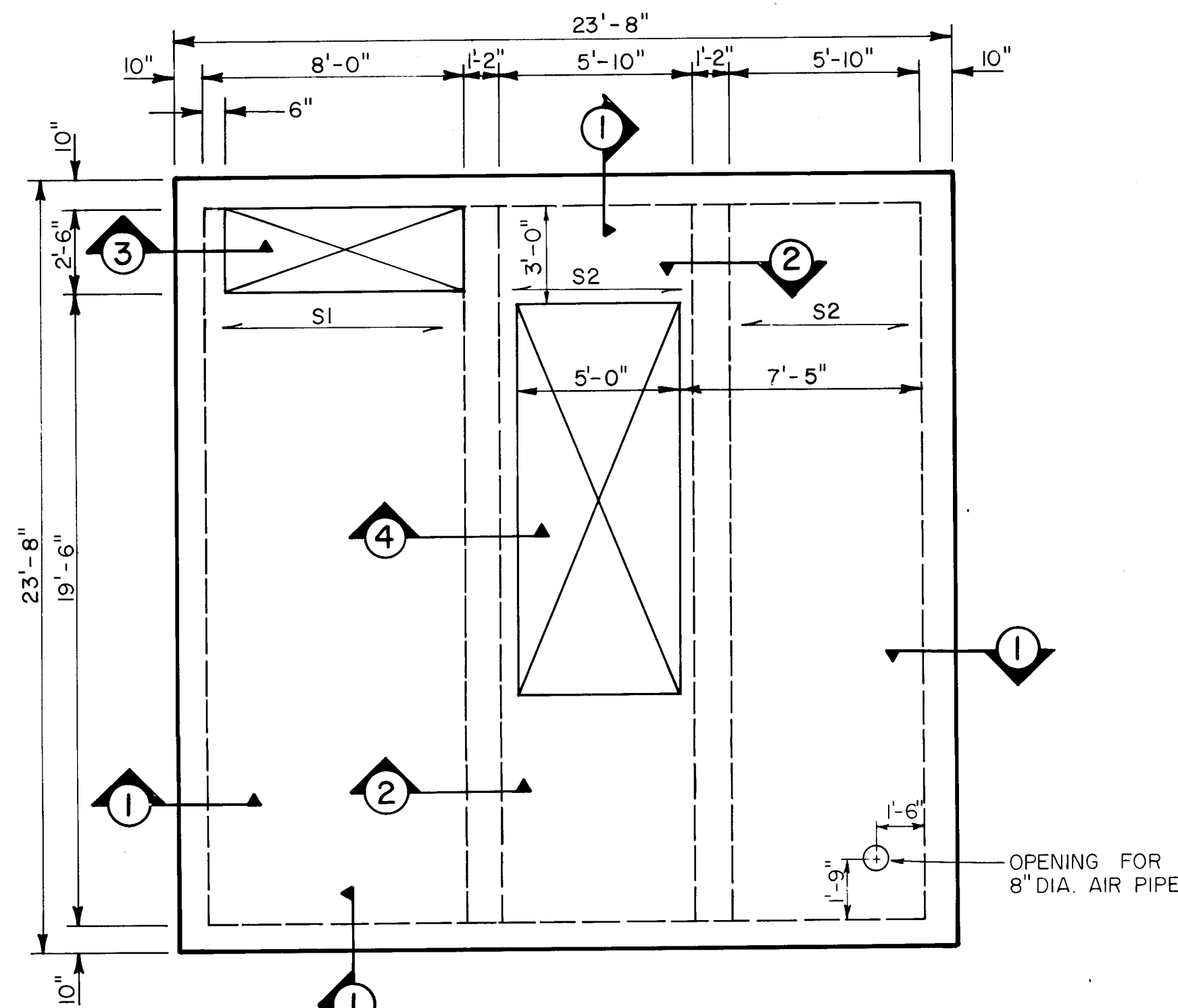
URS CORPORATION Albuquerque Santa Fe

NM PROJECT NO. SP-(M)-4054(204) SHEET NO. 15-8

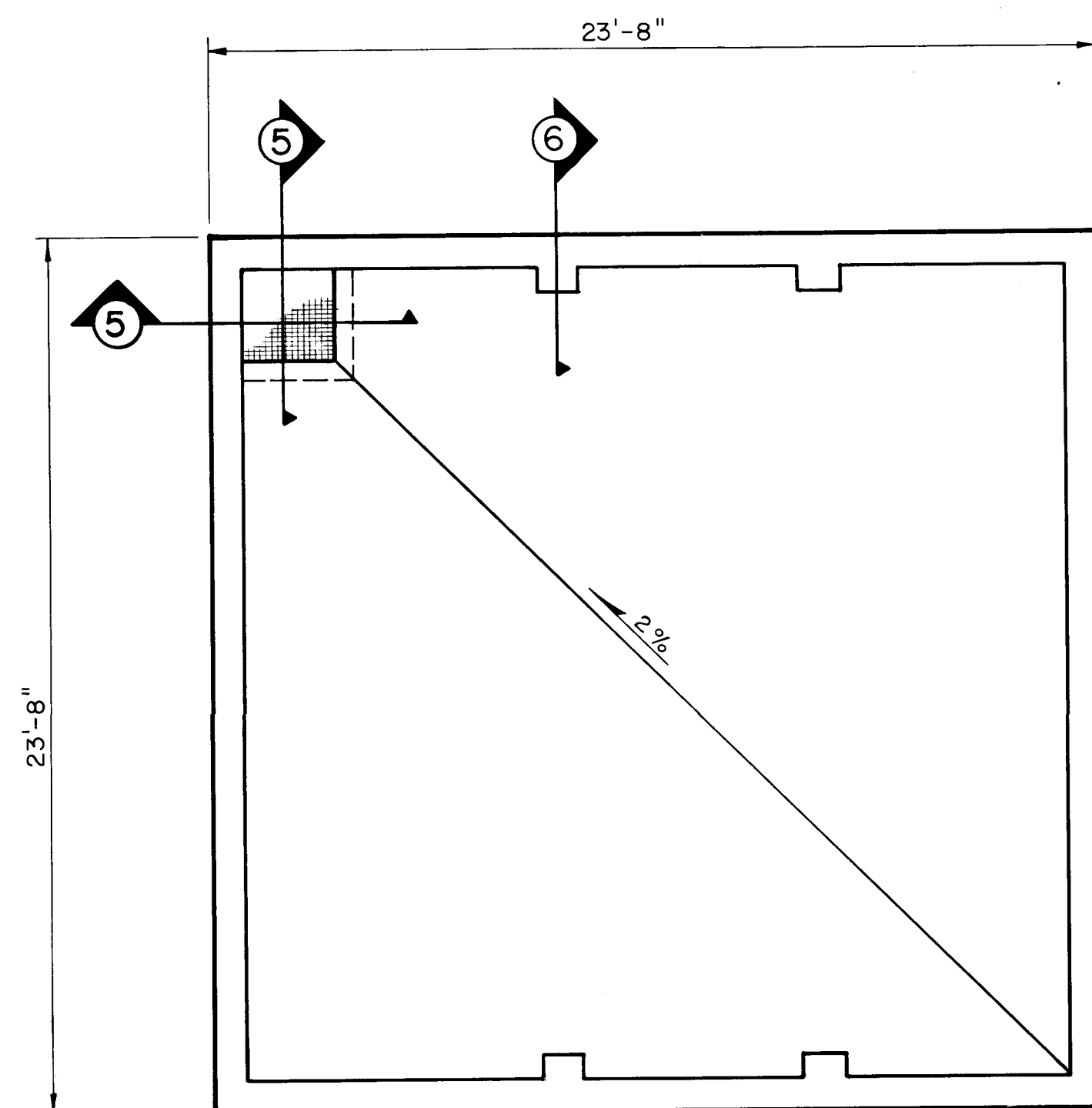
DESIGNED BY
CHECKED BY
DRAWN BY

BRUNING 44.132 6/19/88

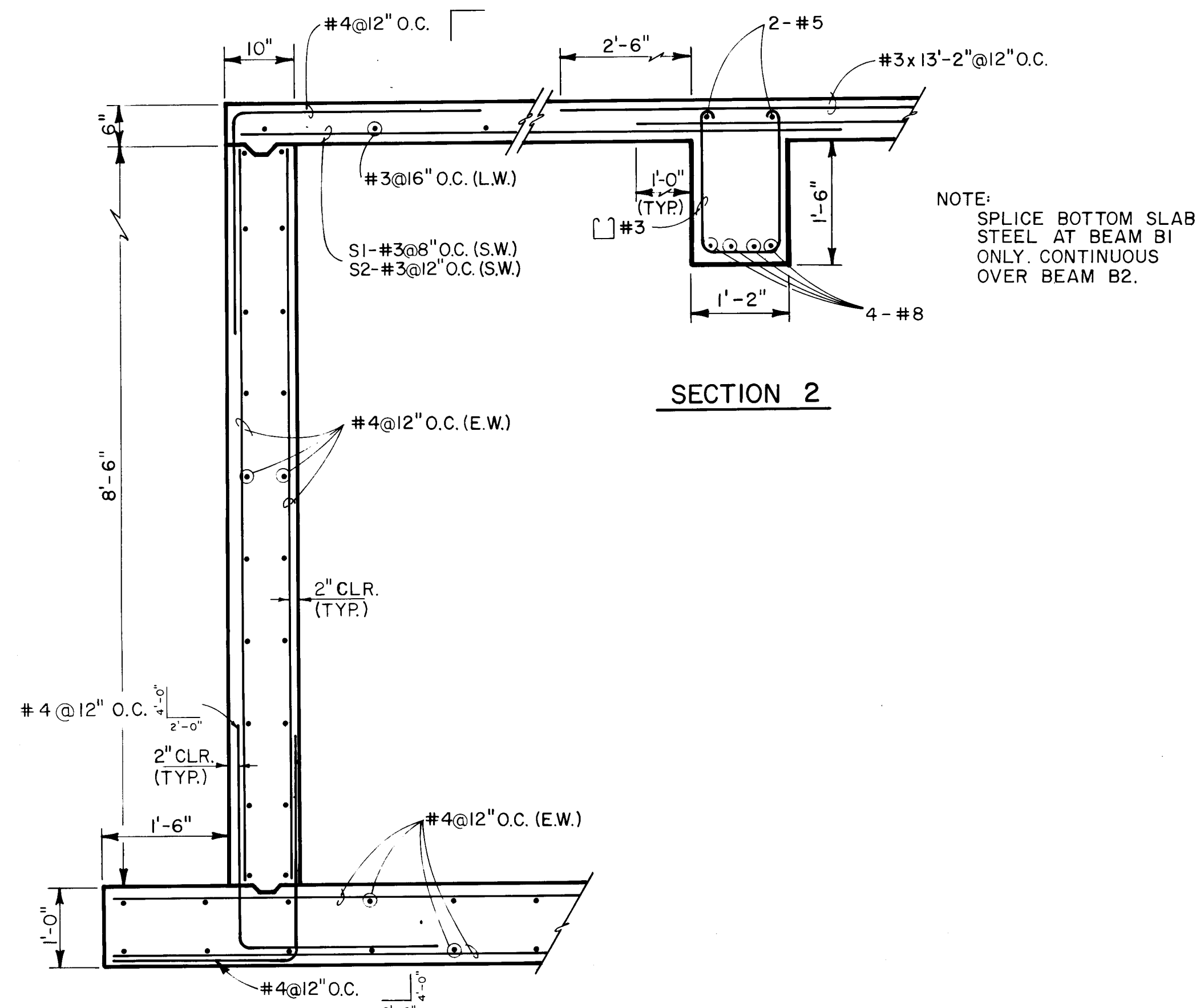
F.H.W.A. Region No.	STATE	NMP	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO	SP-(M)- 4054(204)	15-9	



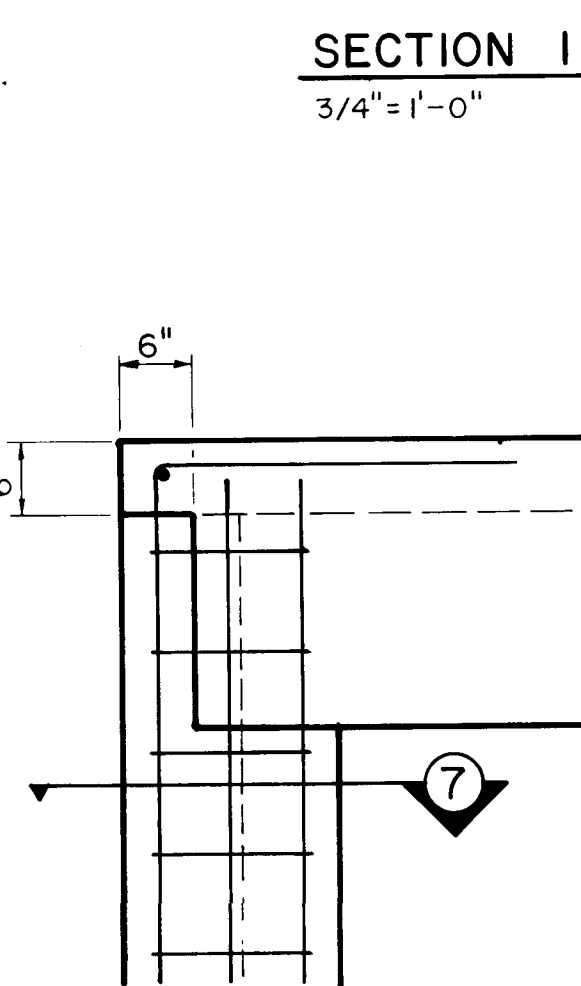
ROOF PLAN
1/4" = 1'-0"



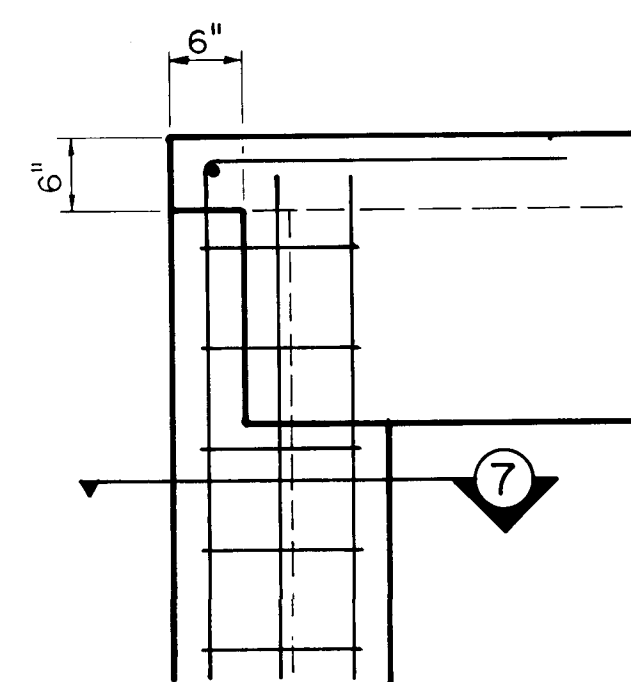
FLOOR PLAN
1/4" = 1'-0"



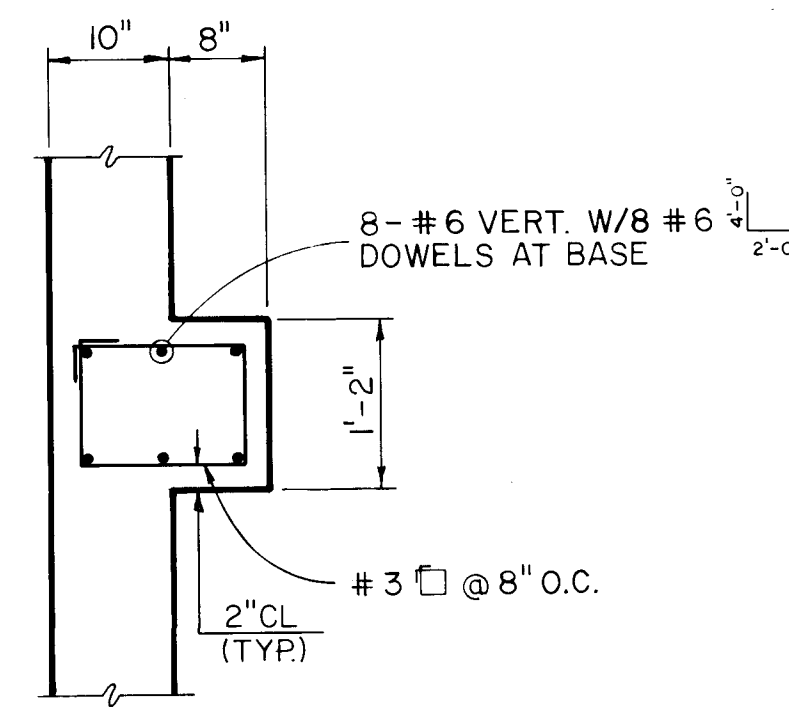
SECTION 2
3/4" = 1'-0"



SECTION 1
3/4" = 1'-0"

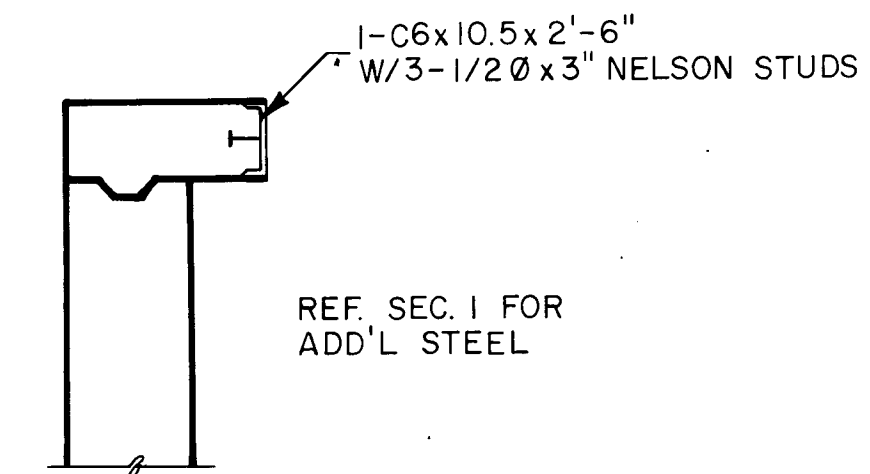


SECTION 6
3/4" = 1'-0"

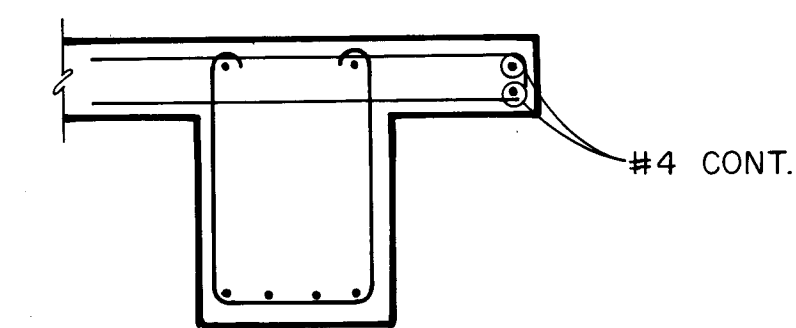


SECTION 7
3/4" = 1'-0"

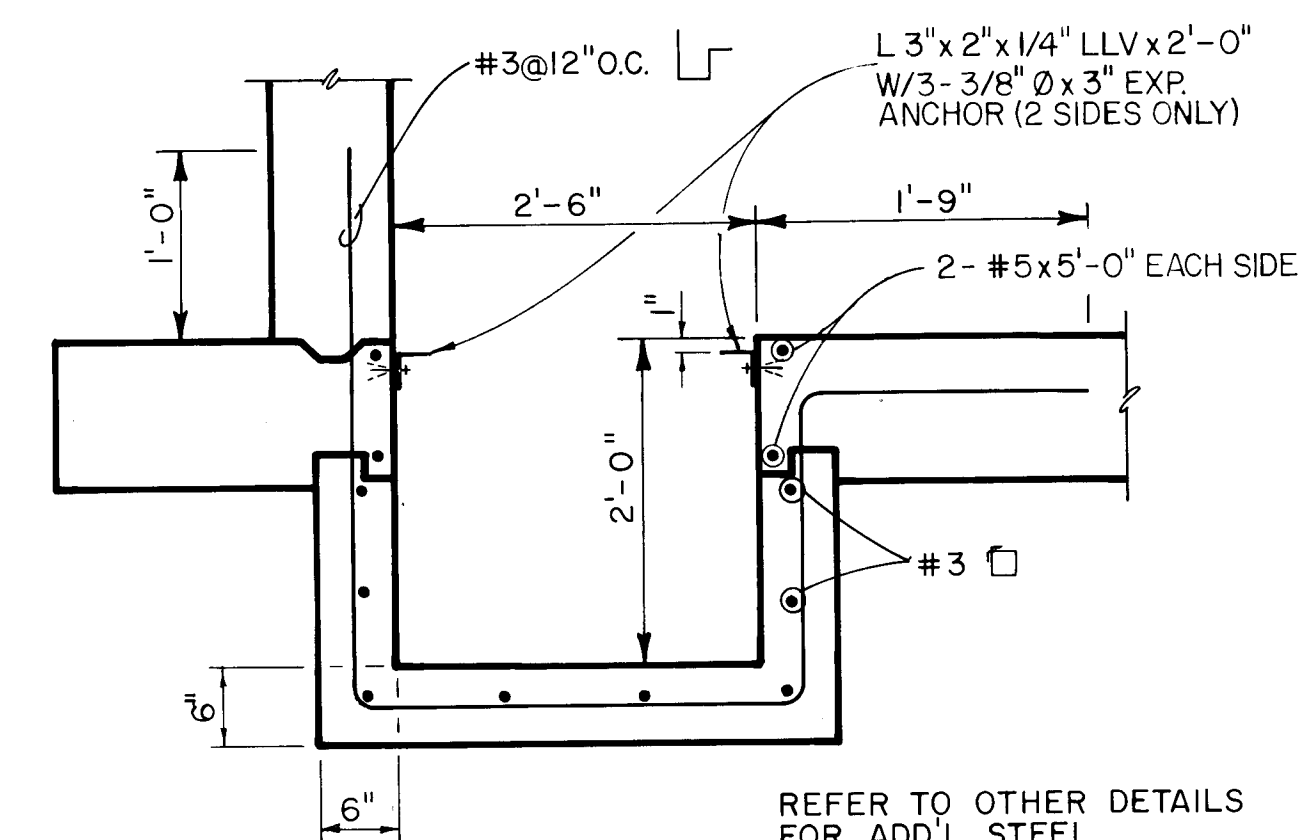
PILASTER REINFORCING DETAIL
3/4" = 1'-0"



SECTION 3
3/4" = 1'-0"



SECTION 4
3/4" = 1'-0"



SECTION 5
3/4" = 1'-0"

- NOTE:
1. CONCRETE TO BE 4000 P.S.I. MIN.
 2. ALL REINF. PER CRSI STDS.
 3. ALL CONCRETE WORK PER ACI-318-83
 4. ALL STEEL 60 KSI

No.	DESCRIPTION	DATE	B
1			
2			
3			

NEW MEXICO
STATE HIGHWAY DEPARTMENT
PASEO del NORTE
PRESSURE REDUCING VALVE
VAULT
STRUCTURAL DETAILS

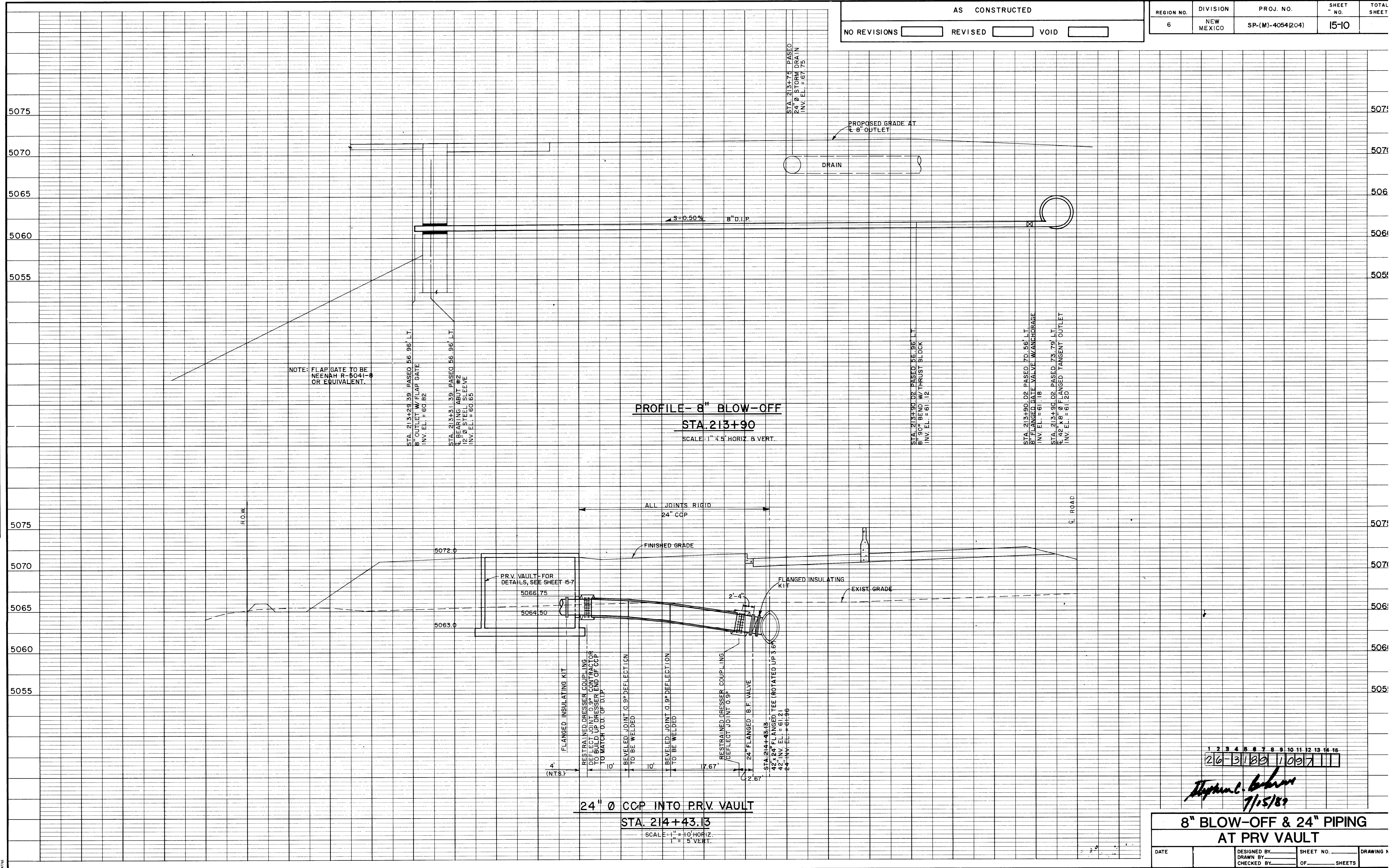
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
26	31	83	02	07										

PROFILE	DATE	BY
DESIGNED		
NOTED		
GRADES CHECKED		
NO.		
STRUCTURE NOTATIONS		

AS CONSTRUCTED

NO REVISIONS ☐ REVISED ☐ VOID ☐

REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEET
6	NEW MEXICO	SP-(M)-4054(204)	15-10	



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
26	31	18	0	1	0	0	7								

Stephen L. Baker
7/15/87

8" BLOW-OFF & 24" PIPING
AT PRV VAULT

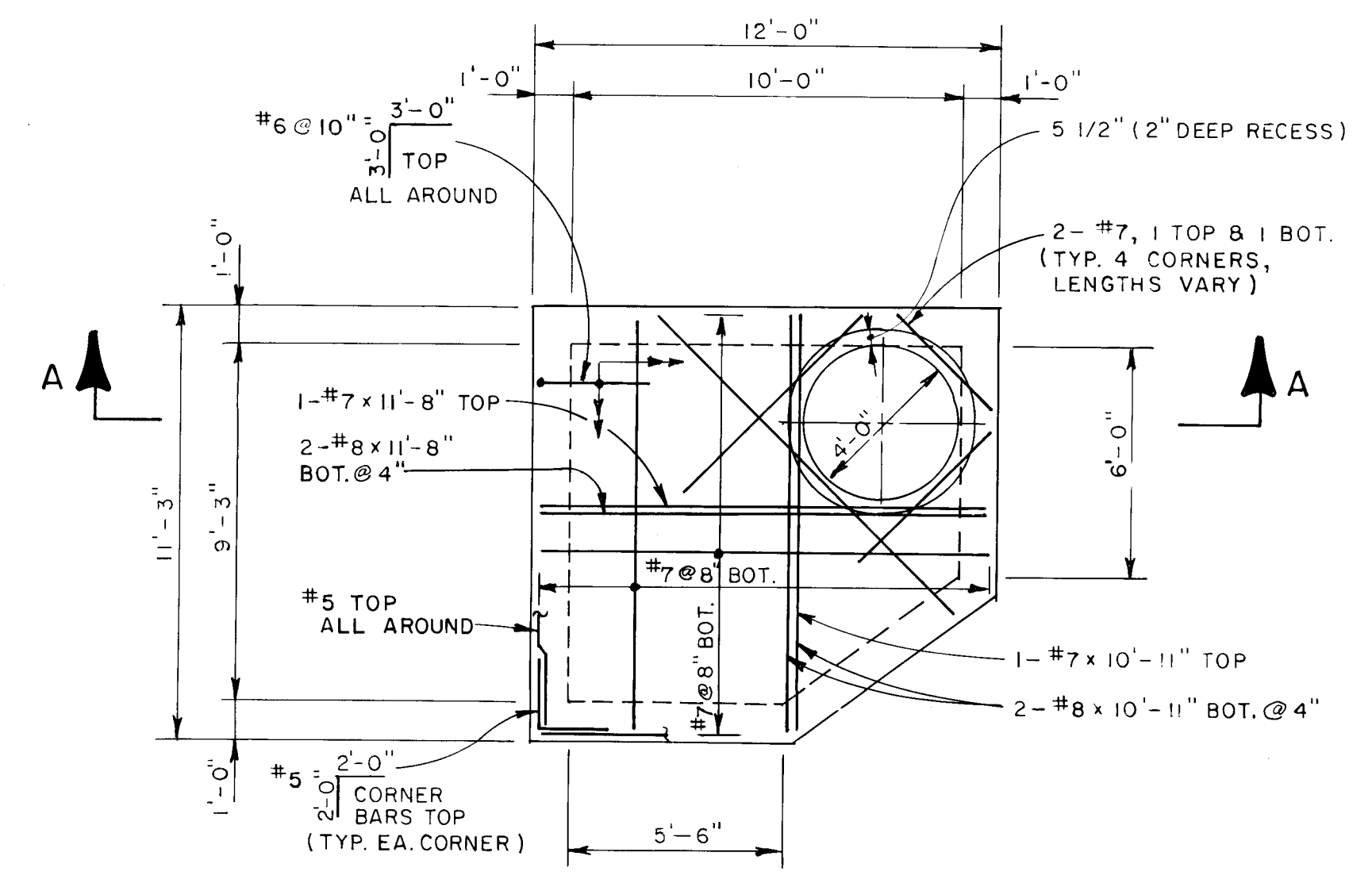
DATE	DESIGNED BY	SHEET NO.	DRAWING NO.
	DRAWN BY	OF	SHEETS
	CHECKED BY		

DATE: MAY 22, 1987

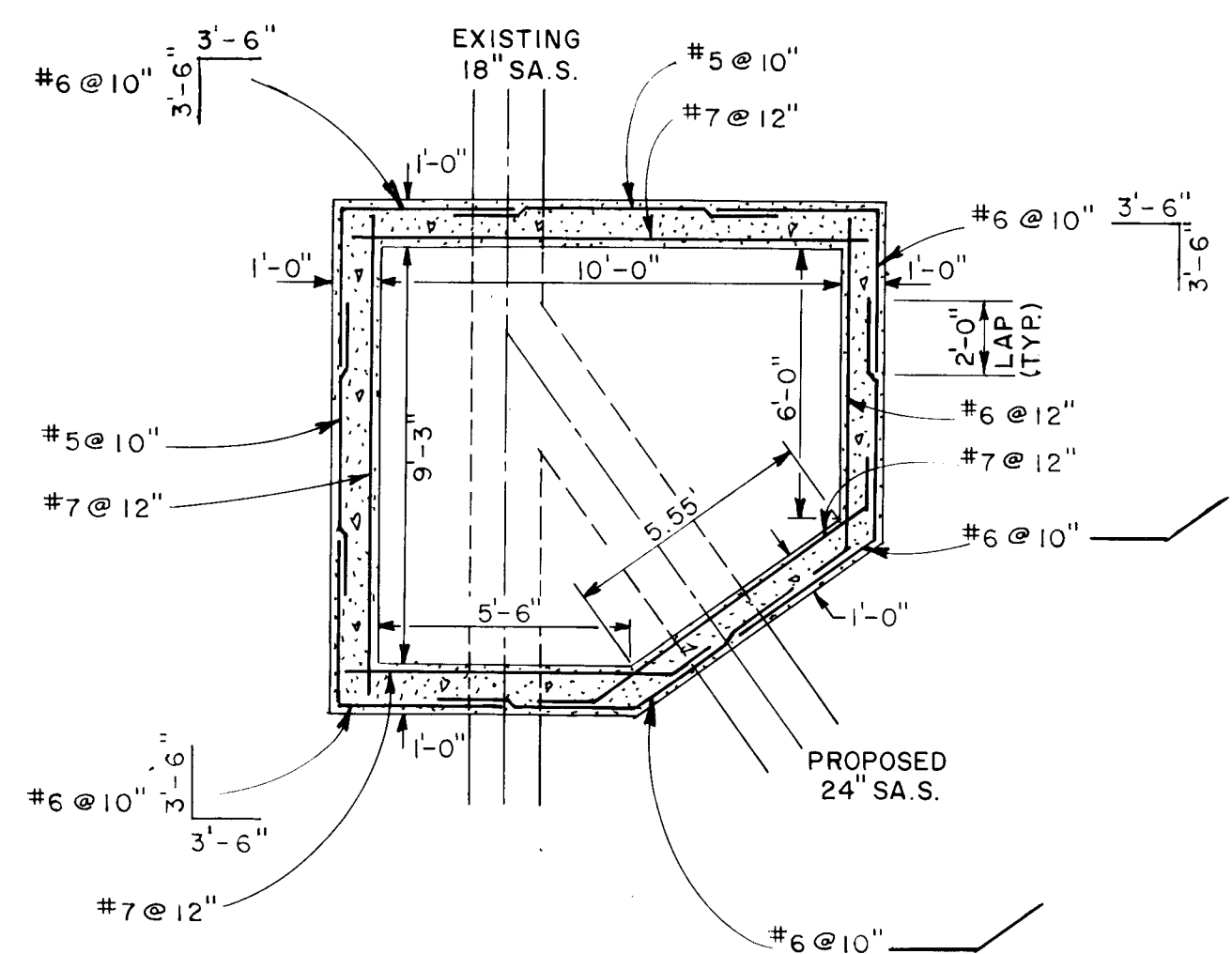
URS CORPORATION Albuquerque Santa Fe

NM PROJECT NO. SP-(M)-4054(204) SHEET NO. 15-10

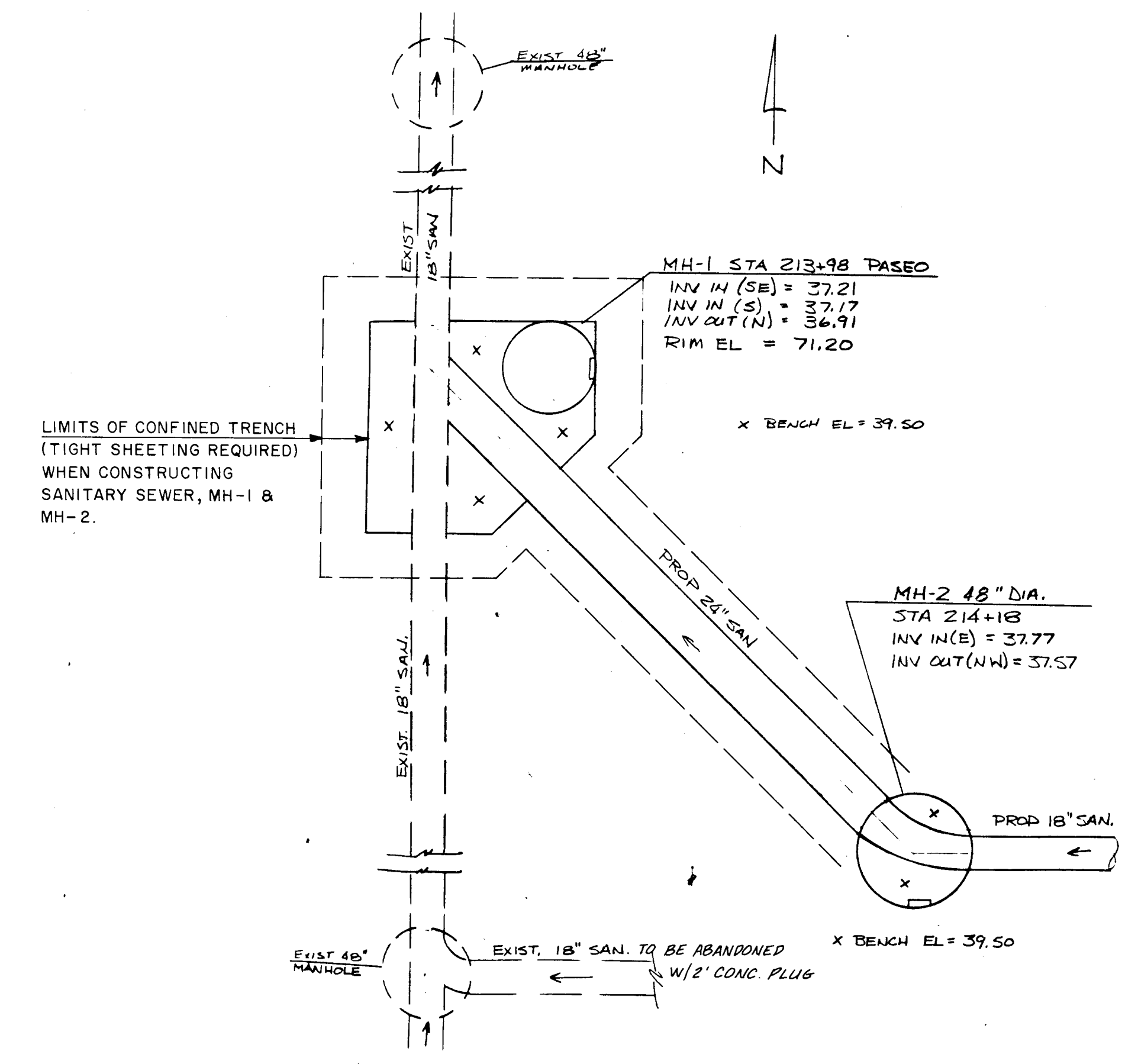
F.H.W.A. Region No.	STATE	NMP	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO	SP-(M)- 4054(204)	15-11	



**MH-1
TOP SLAB PLAN**
SCALE: 1/4" = 1'-0"

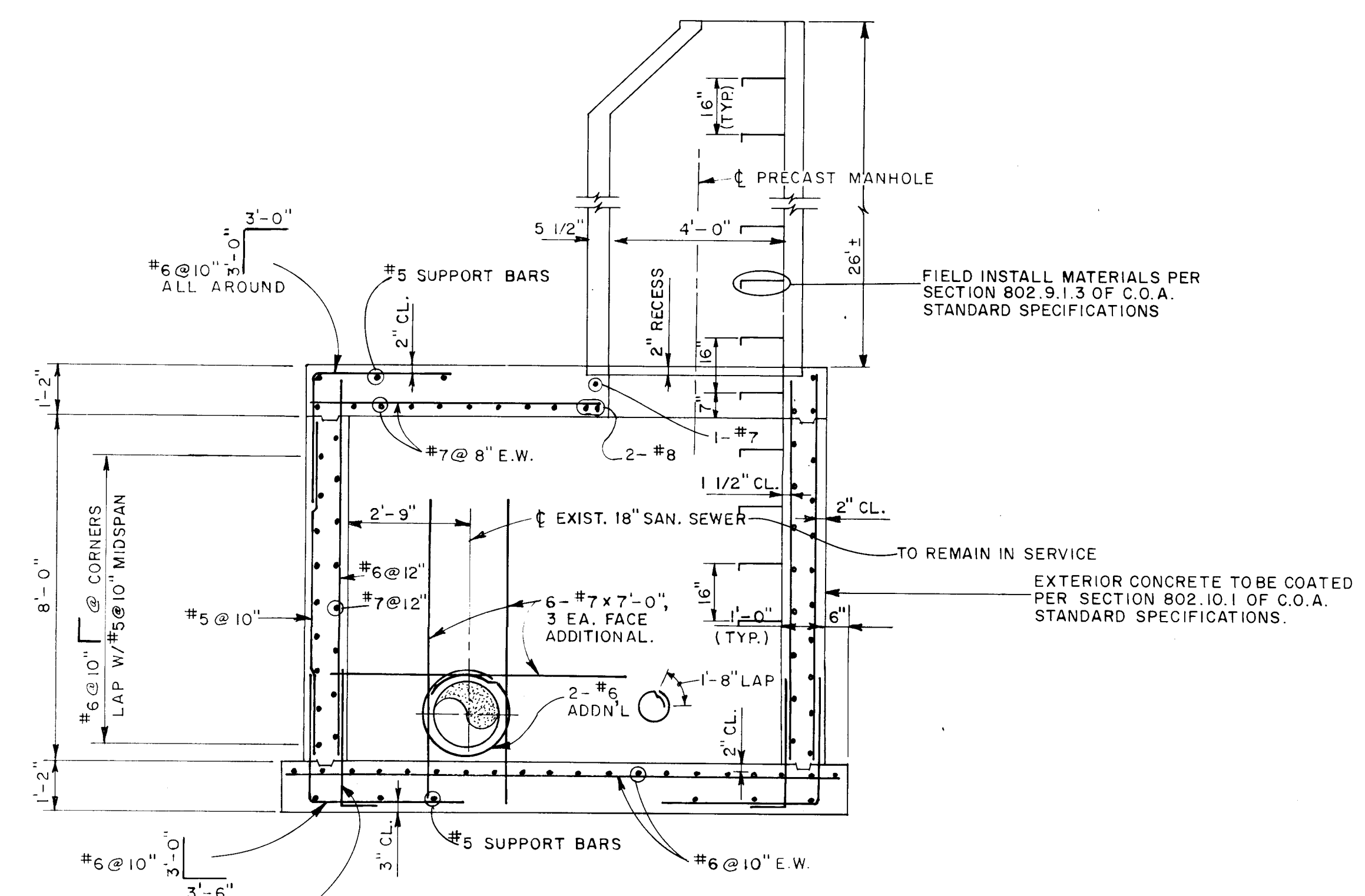


**MH-1
TYPICAL HORIZONTAL REINFORCING
PATTERN IN WALLS**
SCALE: 1/4" = 1'-0"



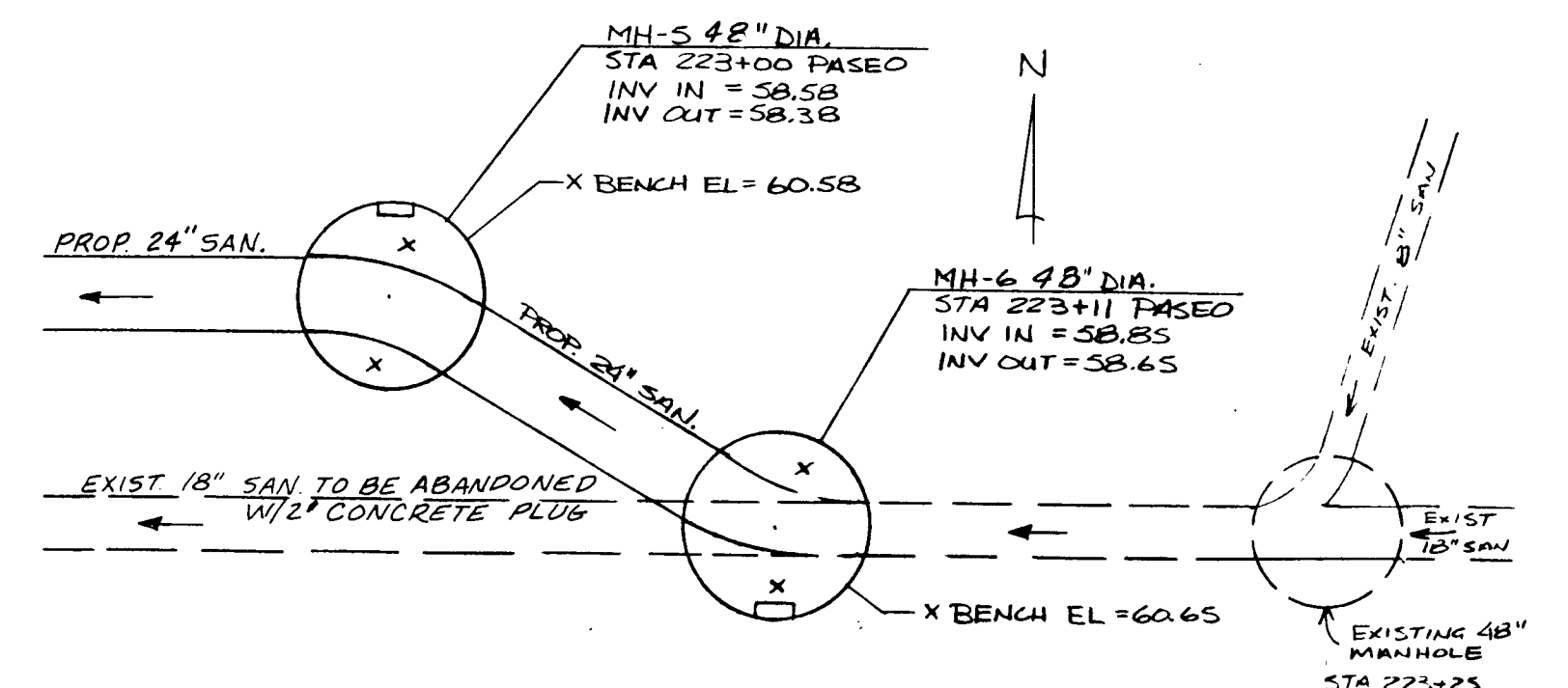
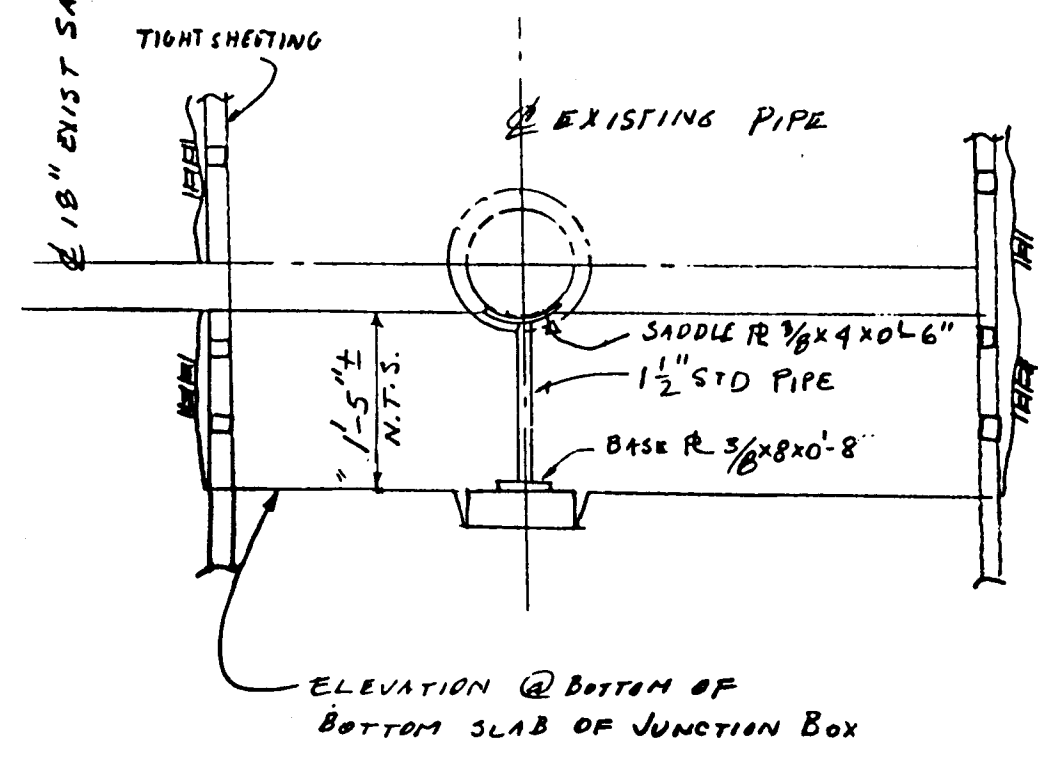
MANHOLE BENCH DETAIL
N.T.S.

NOTE: FOR HORIZONTAL LOCATION OF MANHOLES, SEE SHEET 15-2



**SPECIAL VAULT
MH-1
SECTION A-A**
SCALE: 3/8" = 1'-0"

- POSSIBLE
JUNCTION BOX CONSTRUCTION PROCEDURE**
- PROCEDURE:**
1. CARRY EXCAVATION DOWN TO BOTTOM OF EXIST. 18" SANITARY SEWER PIPE.
 2. AT BELL AND SPIGOT JOINTS, EXCAVATE NARROW TRENCHES APPROXIMATELY 1'-5" DEEP AND INSTALL PIPE SUPPORTS AS SHOWN IN SKETCH BELOW.
 3. COMPLETE EXCAVATION DOWN TO BOTTOM OF BOTTOM SLAB OF JUNCTION BOX.
 4. BUILD FORMS AND CAST CONCRETE, COMPLETELY EMBEDDING THE PIPE SUPPORTS IN THE FINAL CONCRETE SLAB.



MANHOLE BENCH DETAIL
N.T.S.

NOTE:
AFTER CONSTRUCTION OF MH-5 AND PRIOR TO THE CONSTRUCTION OF MH-6, CONTRACTOR IS TO TEMP. PLUG THE OUTLET OF THE EXISTING MANHOLE AND PUMP THE EXISTING FLOWS FROM THE EXISTING MANHOLE TO MANHOLE MH-5.

No.	DESCRIPTION	DATE	BY
1			
2			
3			

**NEW MEXICO
STATE HIGHWAY DEPARTMENT
SPECIAL VAULT MH-1
& BENCH DETAILS FOR**

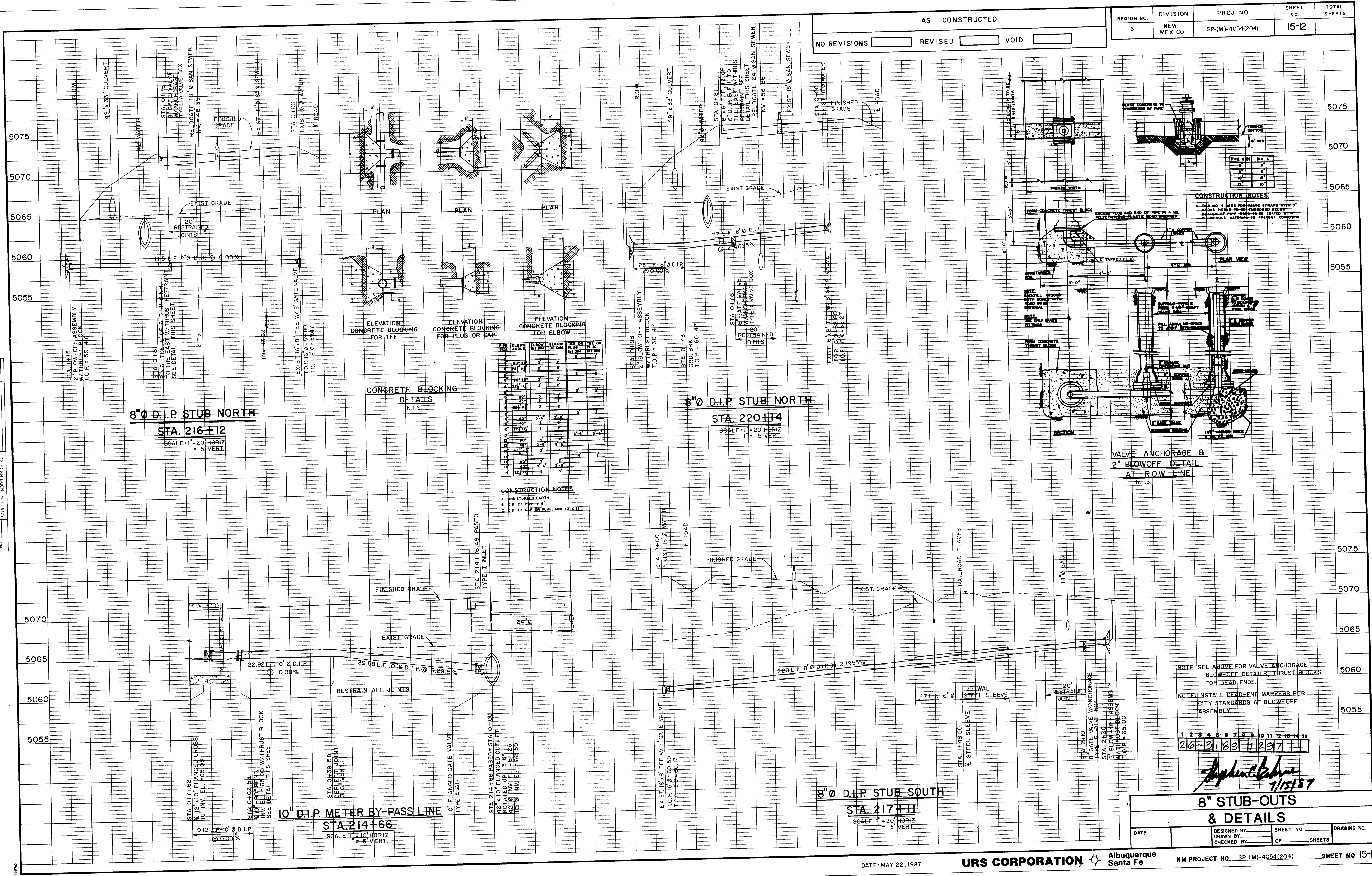
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
20 31 82 11 97 11
MH-1, 2, 5, 6

Stephen P. Ruelas
1/15/87

DESIGNED BY _____ DRAWN BY _____
CHECKED BY _____

BRUNING 44 132 62698

DATE	BY
DESIGNED	CHECKED
NOTED	NOTED
NO.	NO.



AS CONSTRUCTED

NO REVISIONS ☐ REVISED ☐ VOID ☐

REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO	SP-(M)-4054(204)	15-12	

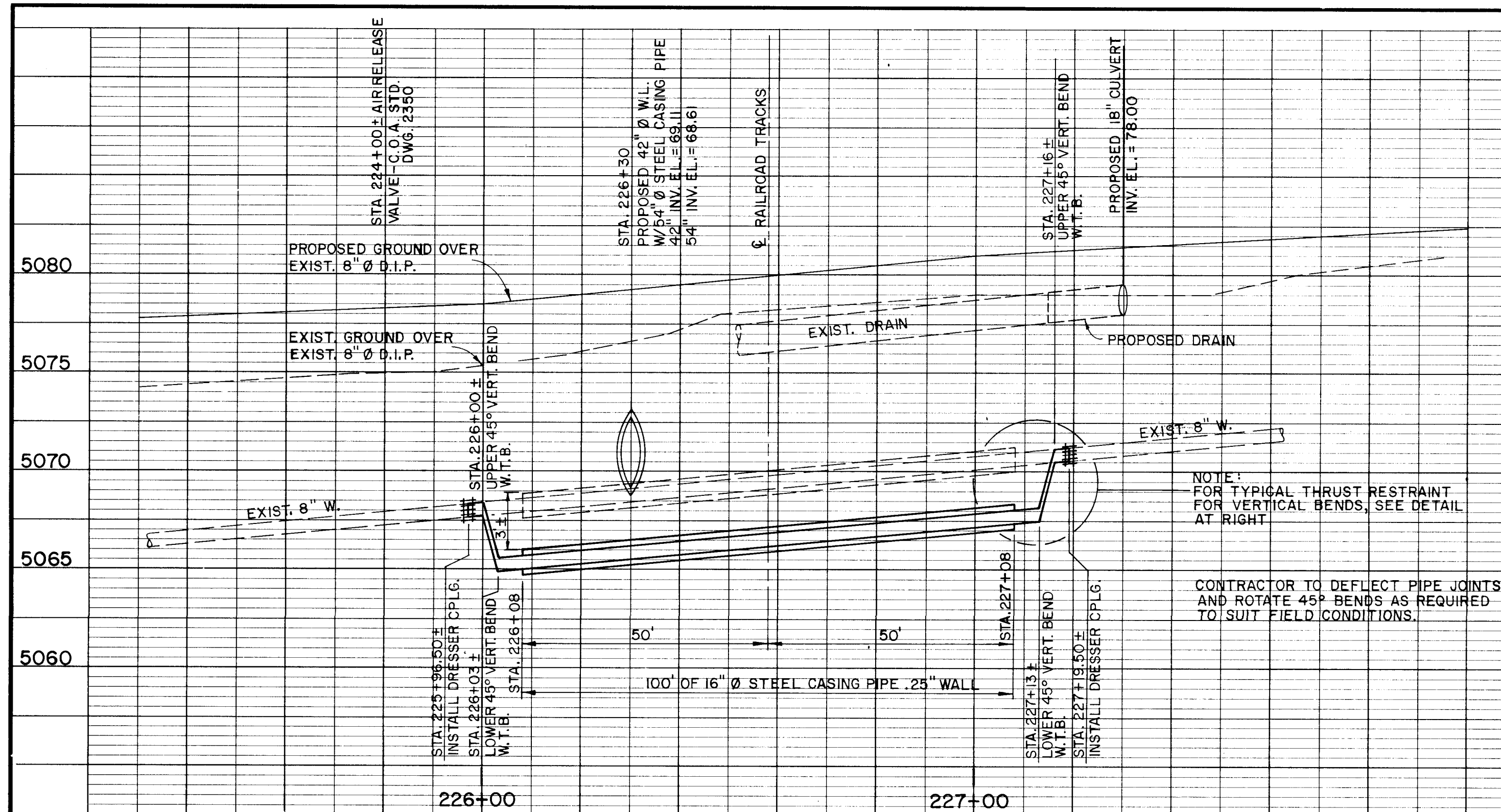
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
20	31	83	11	29	7									

Signature
7/15/87

8" STUB-OUTS & DETAILS			
DATE	DESIGNED BY	SHEET NO.	DRAWING NO.
	DRAWN BY	OF SHEETS	
	CHECKED BY		

DATE: MAY 22, 1987

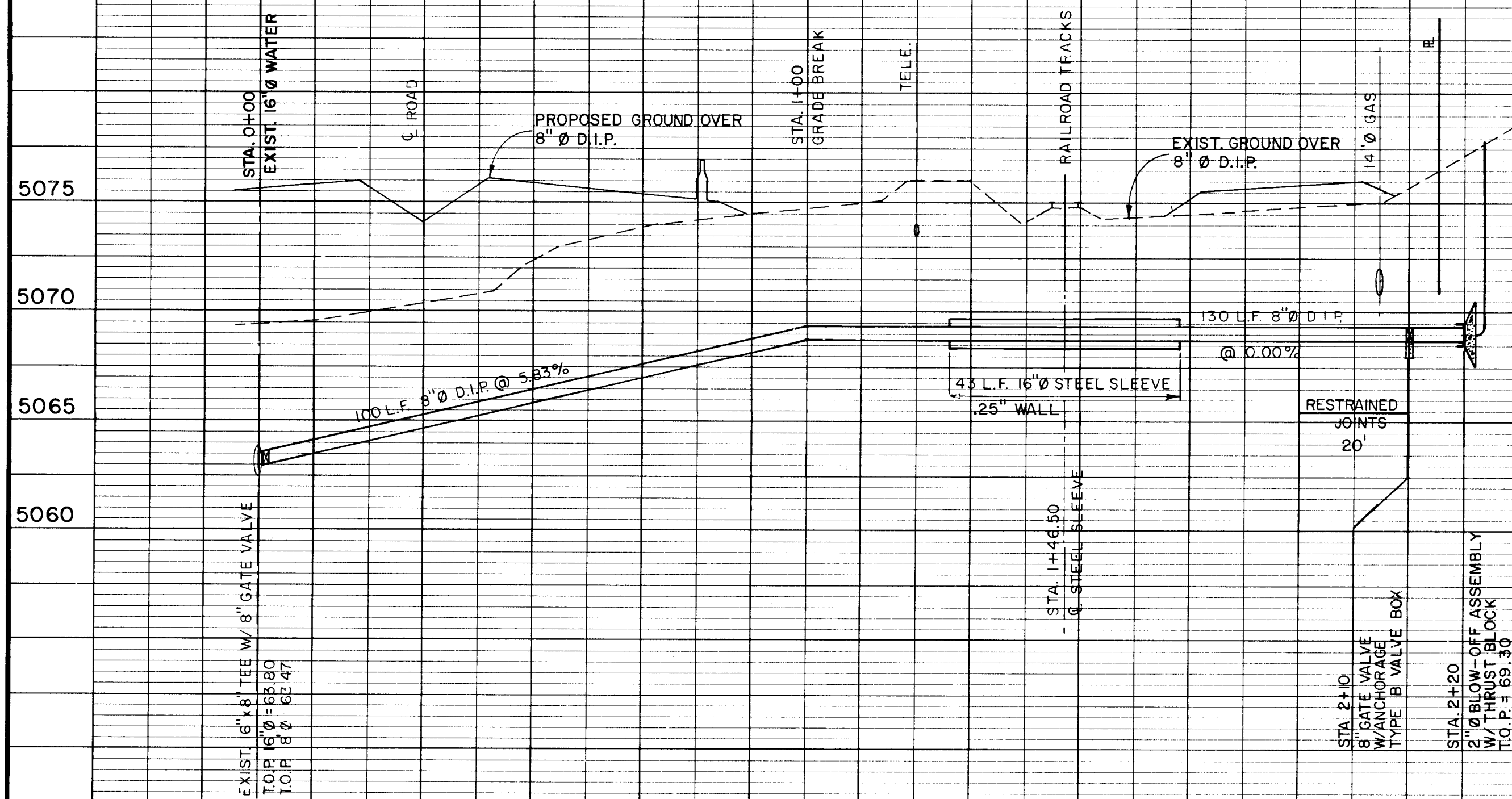
PROFILE	DATE	BY
SURVEYED		
PLOTTED		
CHECKED		
NOTED		
NO.		
STRUCTURE NOTATIONS OK		



8" WATER LINE LOWERING AT STA. 227+19.50

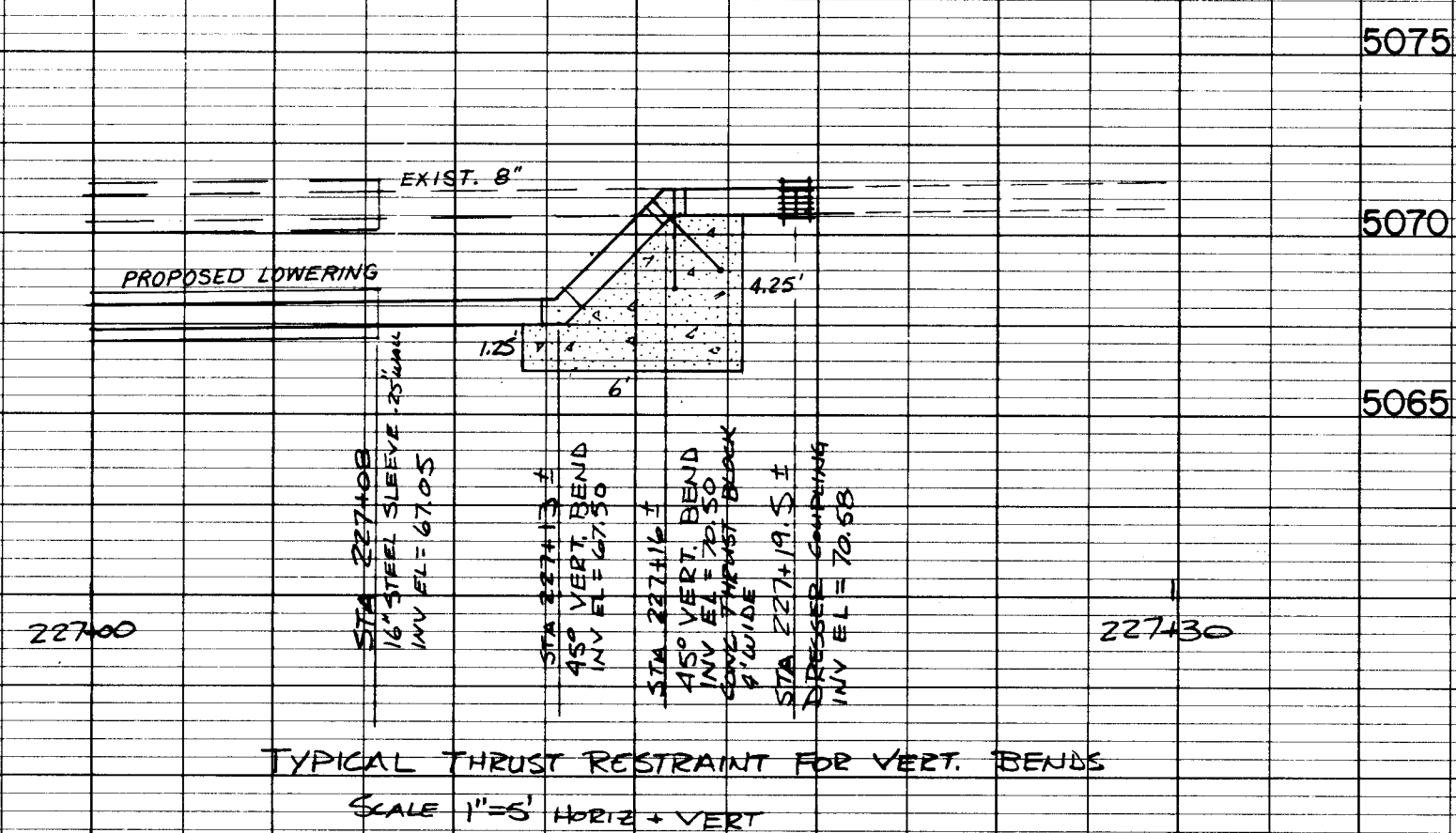
SCALE: 1" = 20' HORIZ.
1" = 5' VERT.

BID ITEM 44, SEE SUPPLEMENTAL SECTION 800 FOR ADDITIONAL INFORMATION



8" D.I.P. STUB SOUTH STA. 221+14

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

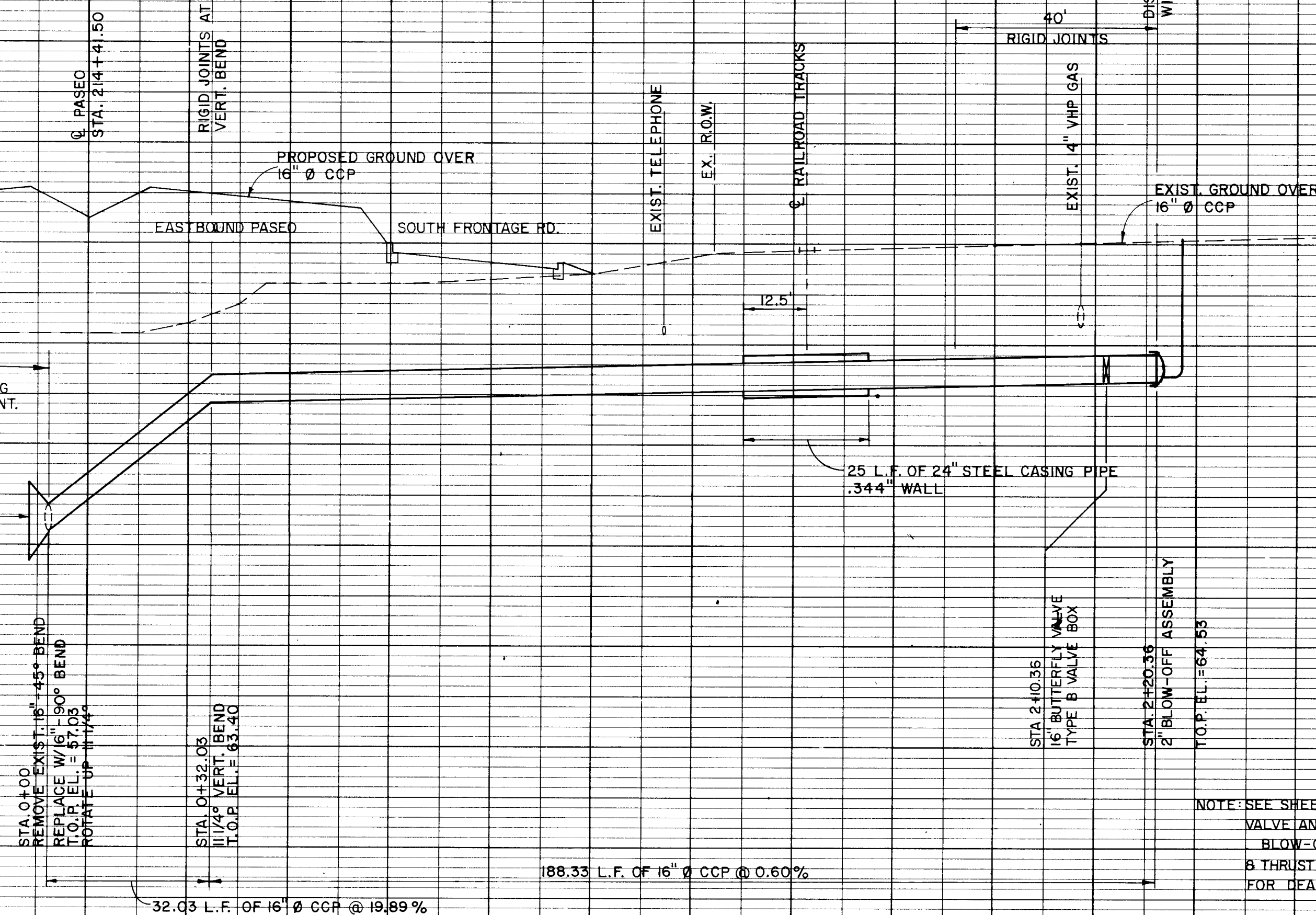


TYPICAL THRUST RESTRAINT FOR VERT. BENDS

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

SEE SUPPLEMENTAL SPECIFICATIONS
SECTION 801.9.8 & 801.22.12.3 FOR
ADDITIONAL INFORMATION CONCERNING
REQUIRED WORK & METHOD OF PAYMENT.

4' x 4' BEARING SURFACE
BLOCK TO BE 3' WIDE



16" CCP STUB SOUTH STA. 214+41.50

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

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 13 18 13 13 17 11

NOTE: SHACKLE RODS, 2 EACH, FOR UPPER VERTICAL BENDS
SHALL BE 5/8" DIA., HAVE A 2' EMBEDMENT LENGTH
AND A 6" HOOK LENGTH. SHACKLE RODS TO FIT SNUG
AGAINST TOP OF PIPE. EXPOSED RODS TO BE COATED
W/ COAL-TAR EPOXY.
COMBINED UPPER & LOWER CONCRETE THRUST BLOCK
SHALL BE REINFORCED WITH #4 BARS AT 12" O.C. EACH
WAY, EACH FACE.

DISKED BULKHEAD TO BE RESTRAINED
WITH BOLT HARNESS JOINT

NOTE: SEE SHEET 15-12 FOR
VALVE ANCHORAGE,
BLOW-OFF DETAILS
& THRUST BLOCK
FOR DEAD-ENDS

NOTE: INSTALL DEAD-END MARKERS
PER CITY STANDARDS AT BLOW-
OFF ASSEMBLY

Stephen C. Johnson 7/15/97

8" W.L., 8" STUB-OUT, 16" STUB-OUT

DATE	DESIGNED BY	SHEET NO.	DRAWING NO.
	CHECKED BY	OF SHEETS	

DATE: MAY 22, 1997

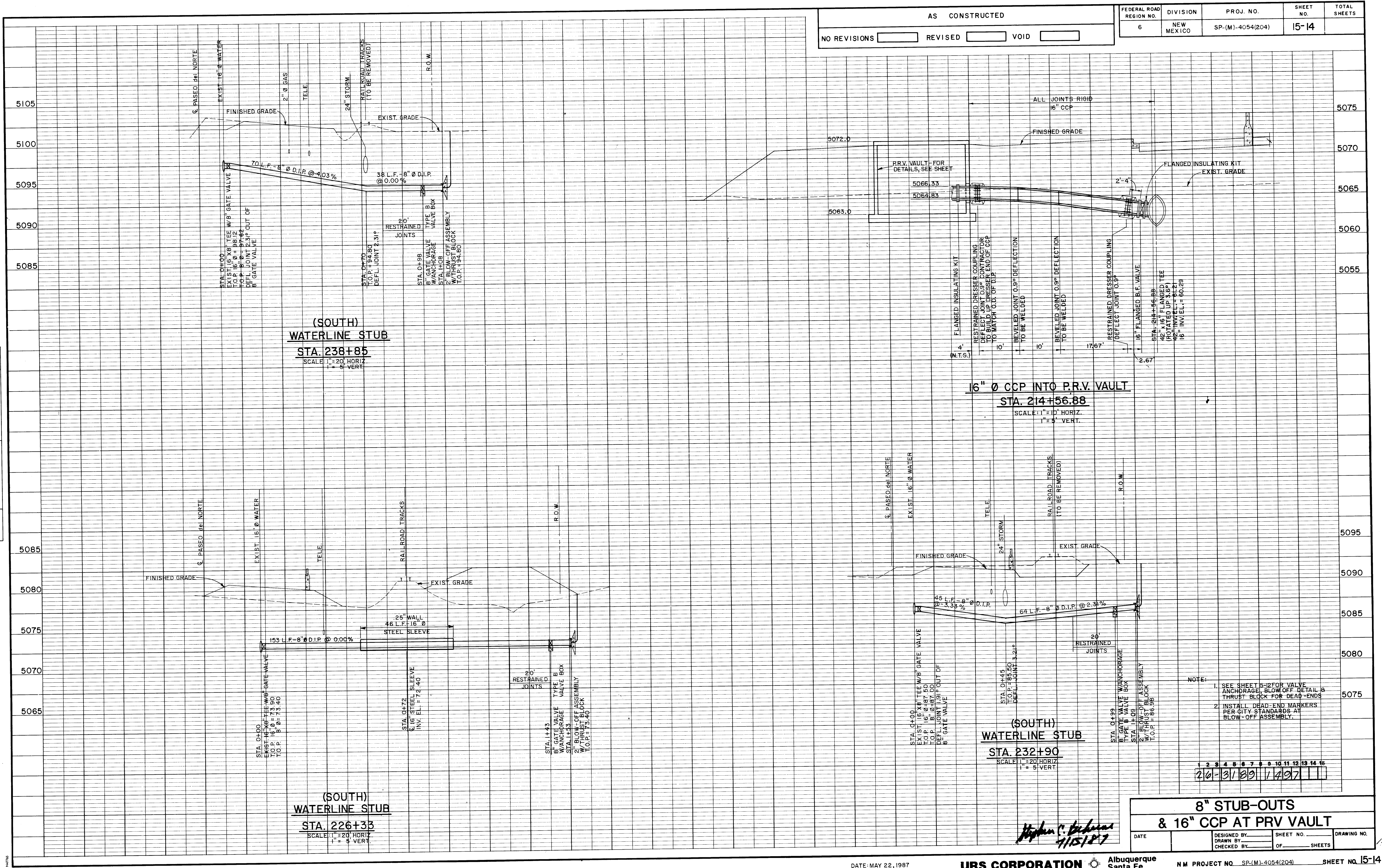
URS CORPORATION

Albuquerque
Santa Fe

NM PROJECT NO. SP-(M)-4054(204)

SHEET NO. 15/13

PROFILE	DATE	BY
SURVEYED		
PLOTTED		
NOTE BOOK		
GRADES CHECKED		
STRUCTURE NOTATIONS CHKO		



FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO	SP-(M)-4054(204)	15-14	

AS CONSTRUCTED	NO REVISIONS	REVISED	VOID

8" STUB-OUTS & 16" CCP AT PRV VAULT			
DATE	DESIGNED BY	SHEET NO.	DRAWING NO.
	CHECKED BY	OF	SHEETS

DATE: MAY 22, 1987

URS CORPORATION

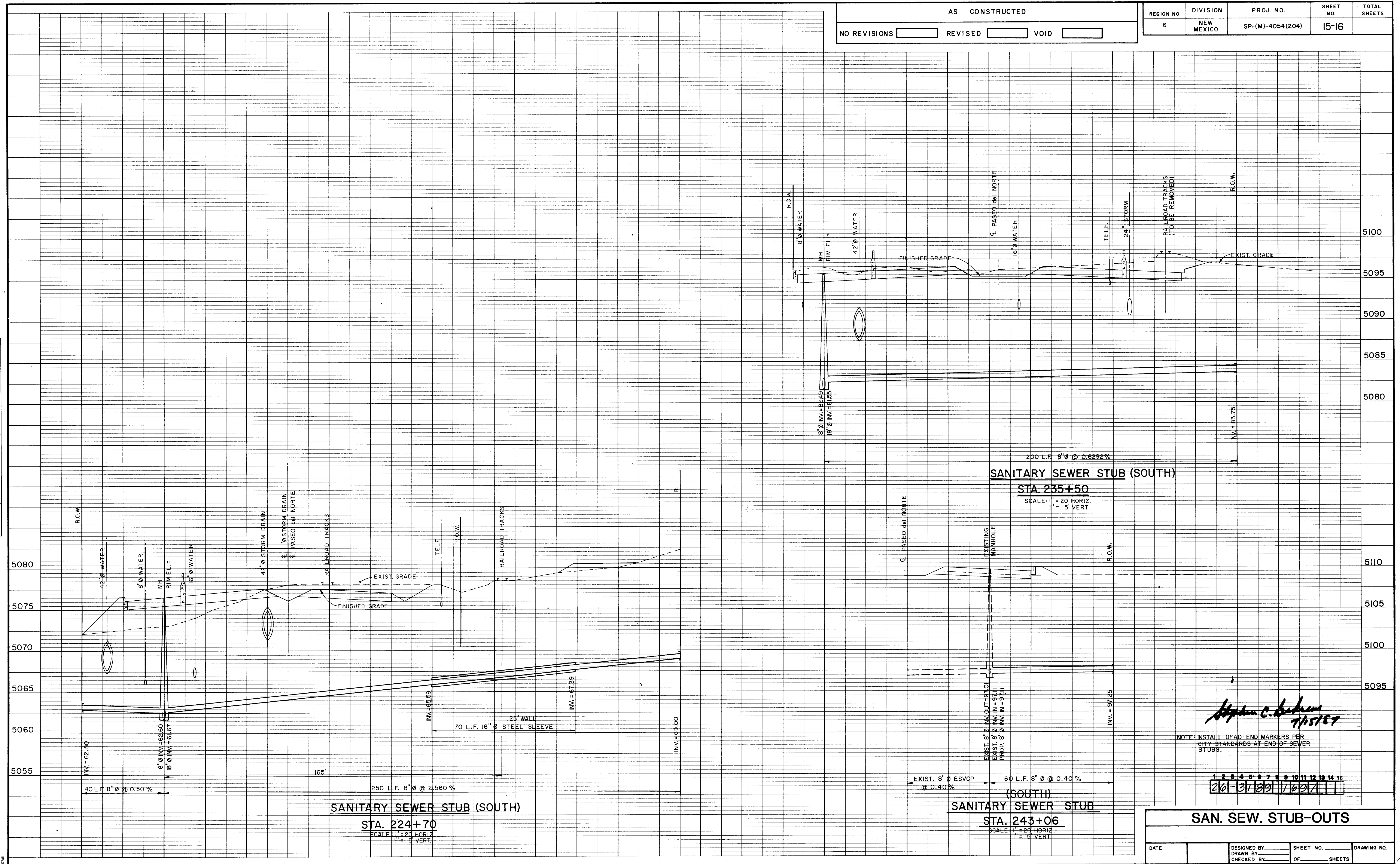
Albuquerque Santa Fe

NM PROJECT NO. SP-(M)-4054(204)

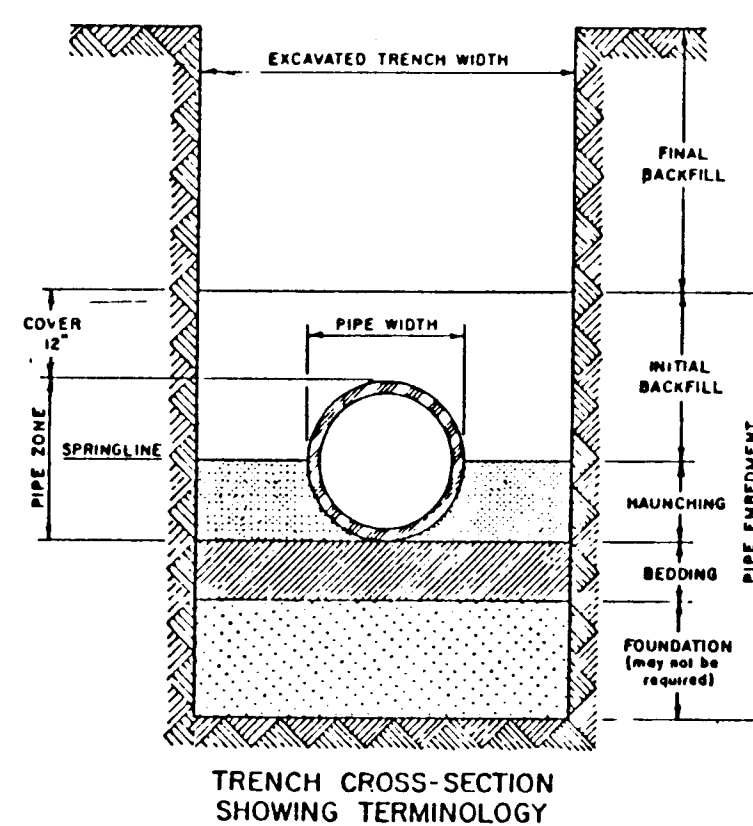
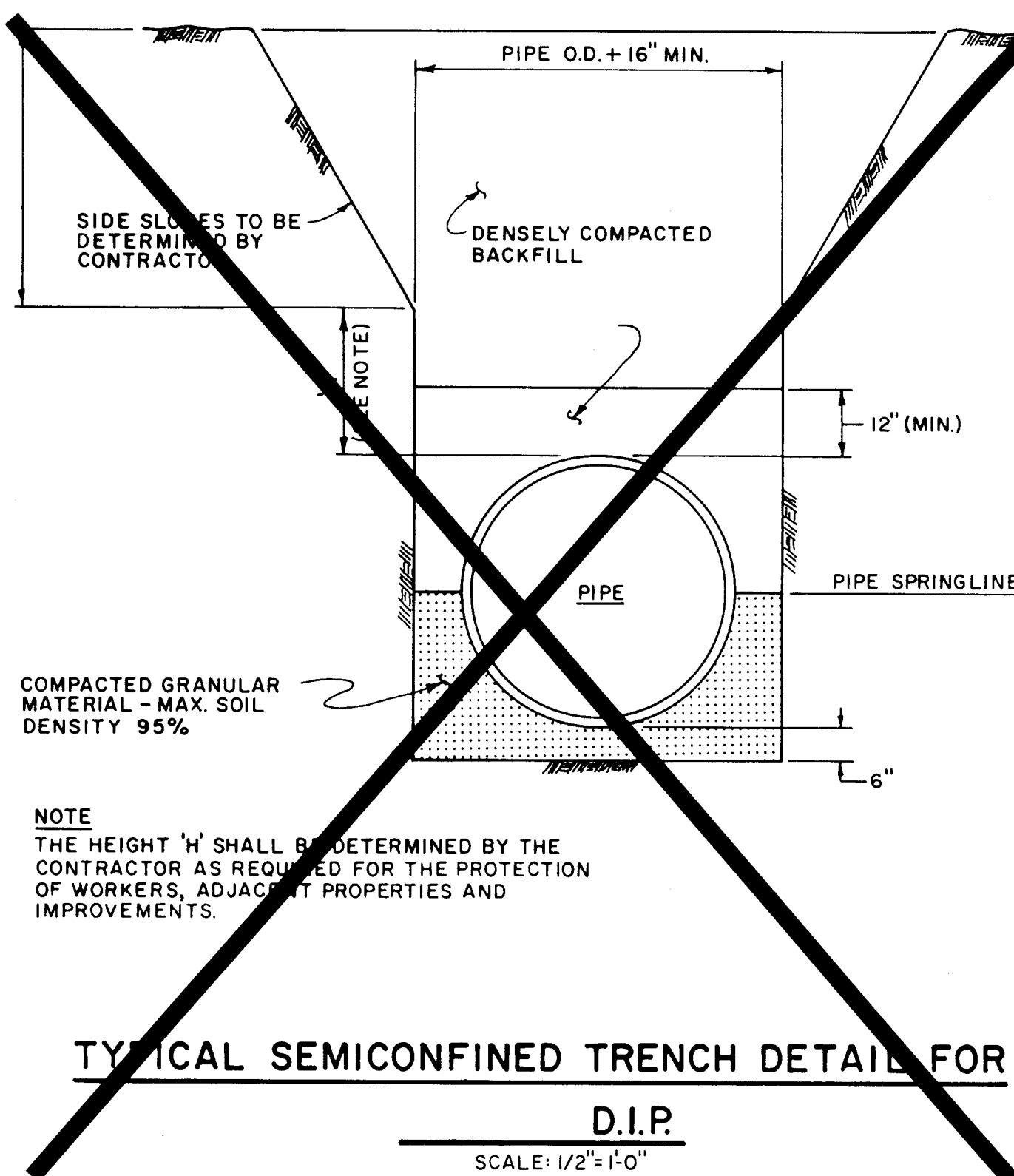
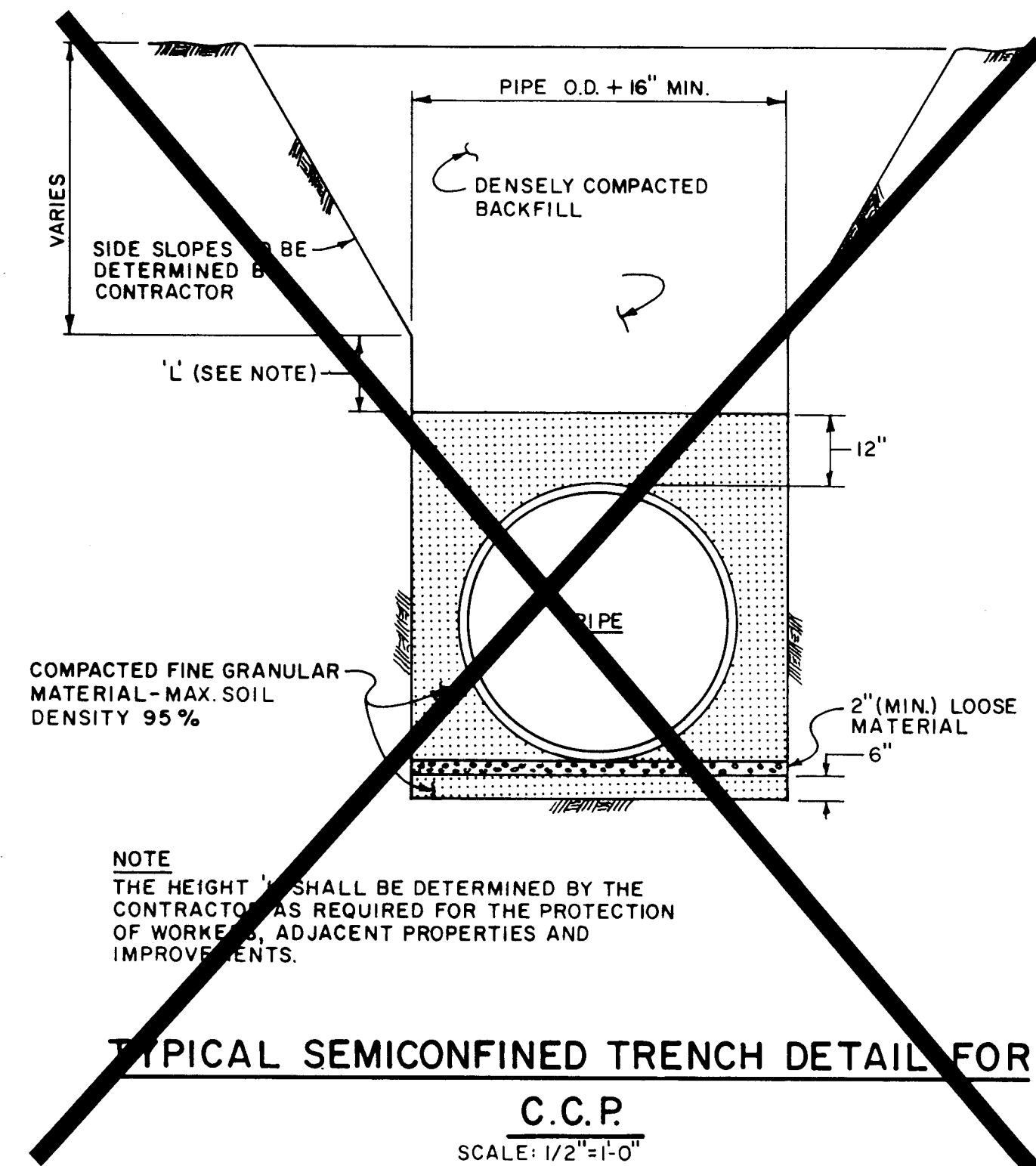
SHEET NO. 15-14

SHEET NO 15-15

PROFILE	DATE
SANITARY	
PLANNED	
NOTED	
NO.	
STRUCTURE	
NOTES	
CHKO	

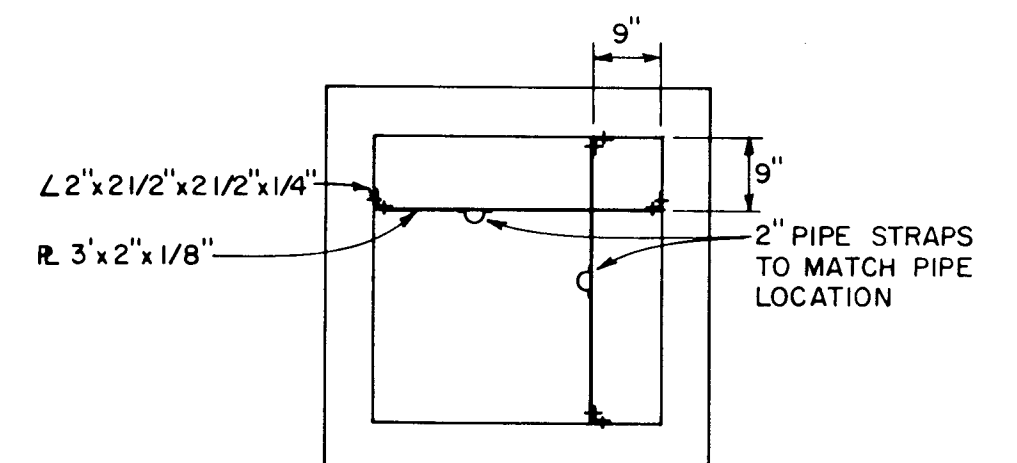
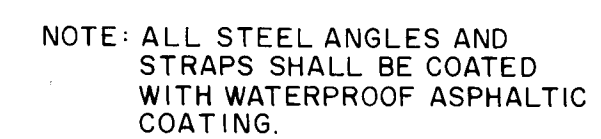
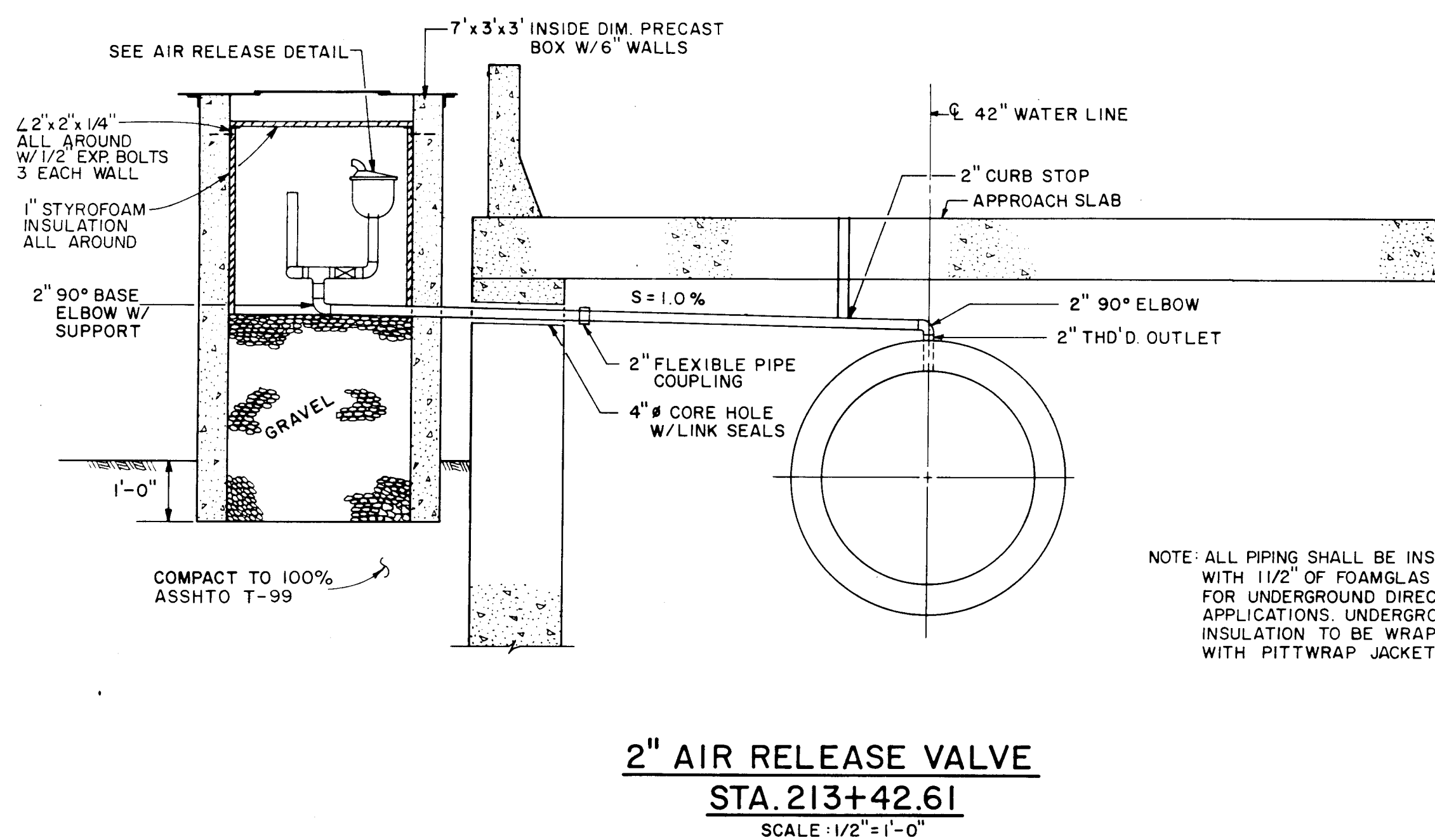


F.H.W.A. Region No.	STATE	NMP	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO	SP-(M)- 4054(204)	15-17	

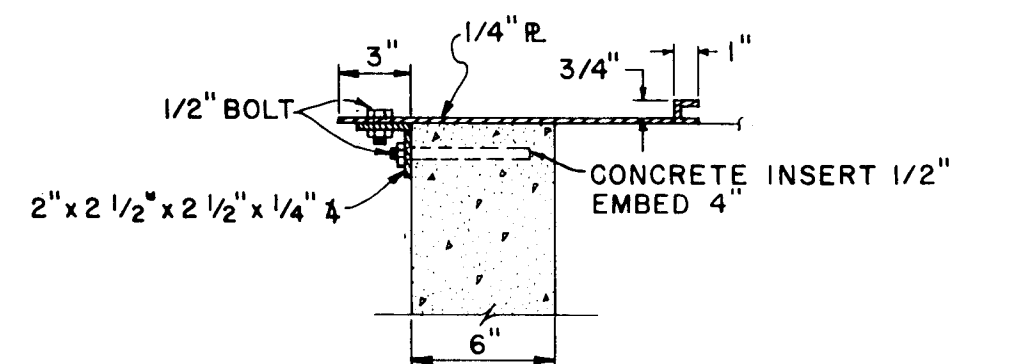


GENERAL NOTES

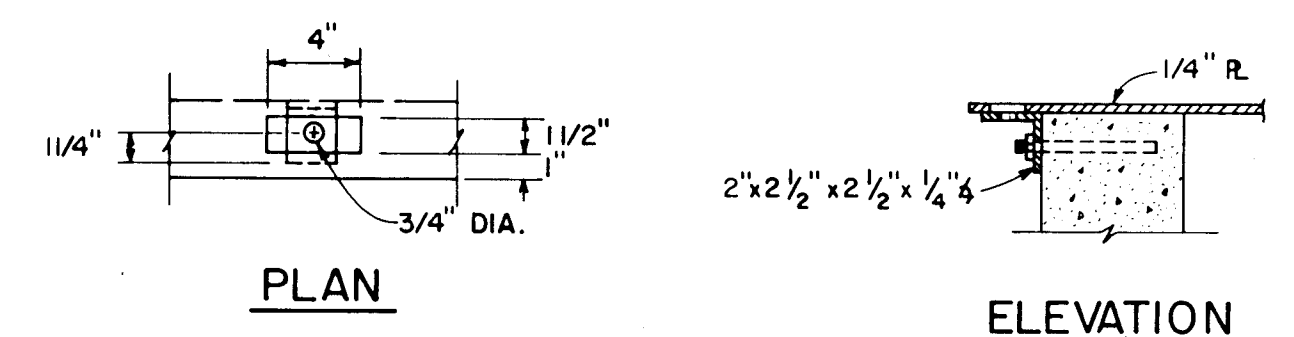
1. "PLASTIC PIPE TRENCH TERMINOLOGY IS TAKEN FROM UNI-BELL STANDARD UNI-8-3
2. MECHANICAL TAMPERS NOT TO BE USED IN THE INITIAL BACKFILL SECTION. ~
3. SEE SUPPLEMENTAL SPECIFICATIONS (SEC 701) FOR PIPE EMBEDMENT MATERIALS FOR CCP & PLASTIC PIPE (SEWER)



PIPE SUPPORT PLAN
SCALE : 1/2" = 1'-0"



COVER ATTACHMENT
DETAIL
SCALE: 1 1/2" = 1'-0"



HANDLE DETAIL
SCALE : 1 1/2" = 1'-0"

3			
2			
1			
No.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			

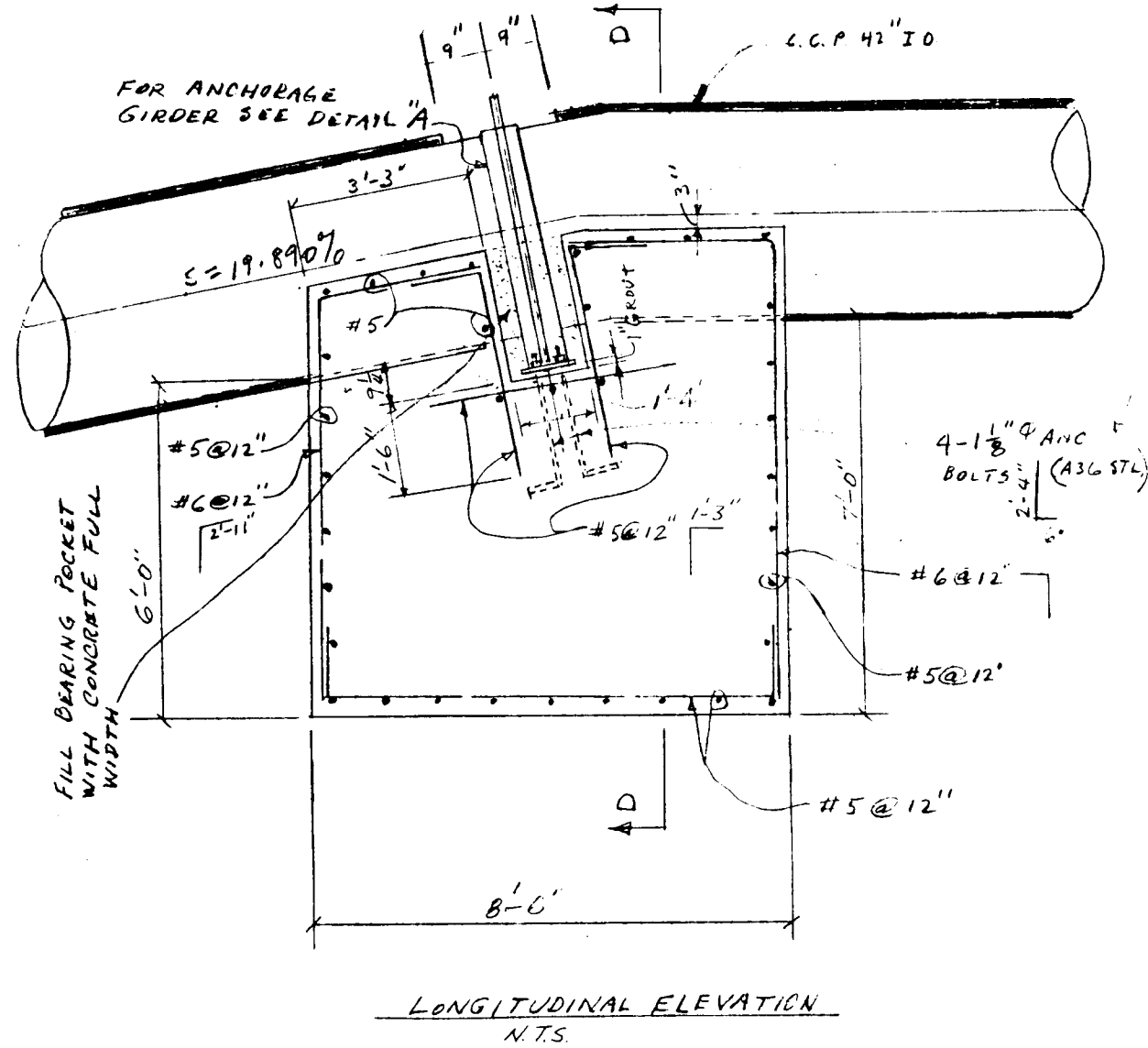
NEW MEXICO
STATE HIGHWAY DEPARTMENT
TRENCH &
AIR RELEASE

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

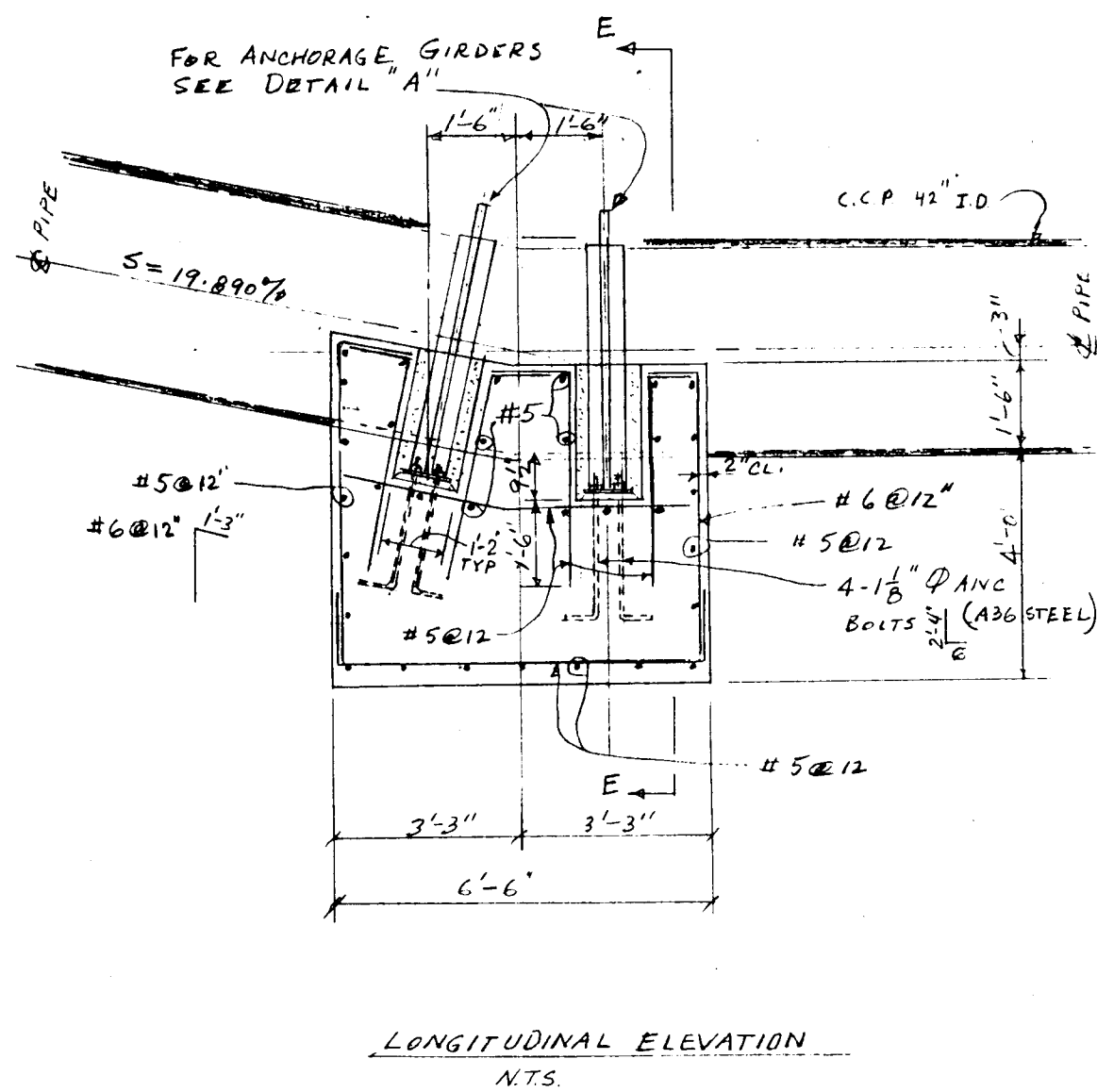
F.H.W.A. Region No.	STATE	NMP	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO	SP-(M)- 4054(204)	15-18	

VERTICAL THRUST BLOCK DETAILS

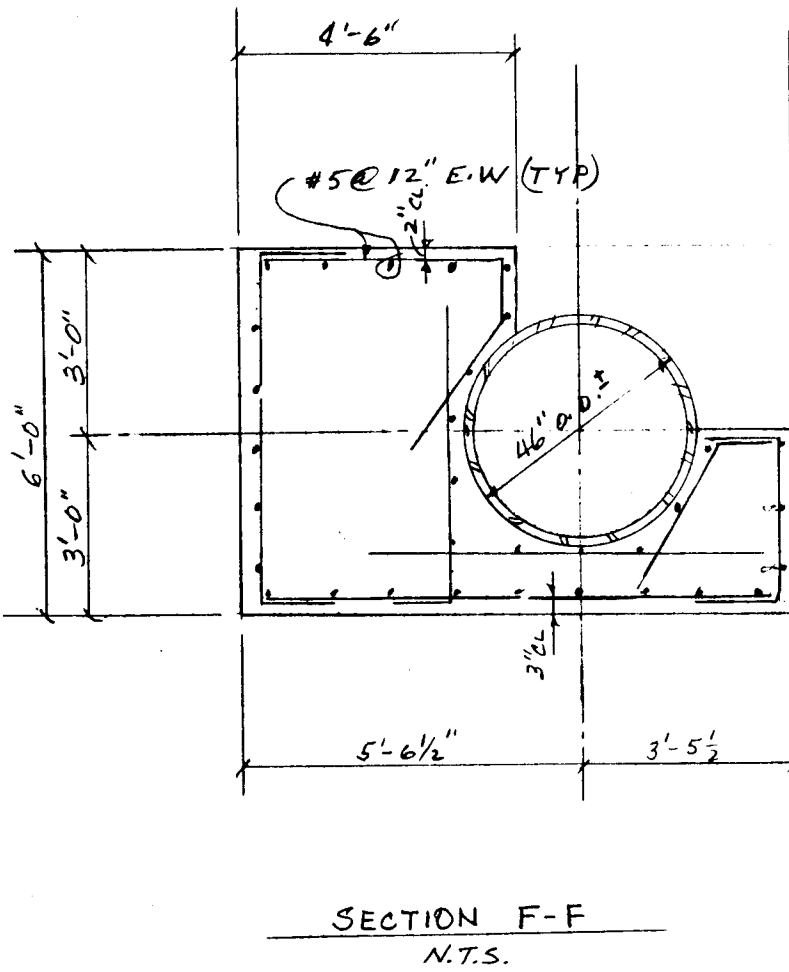
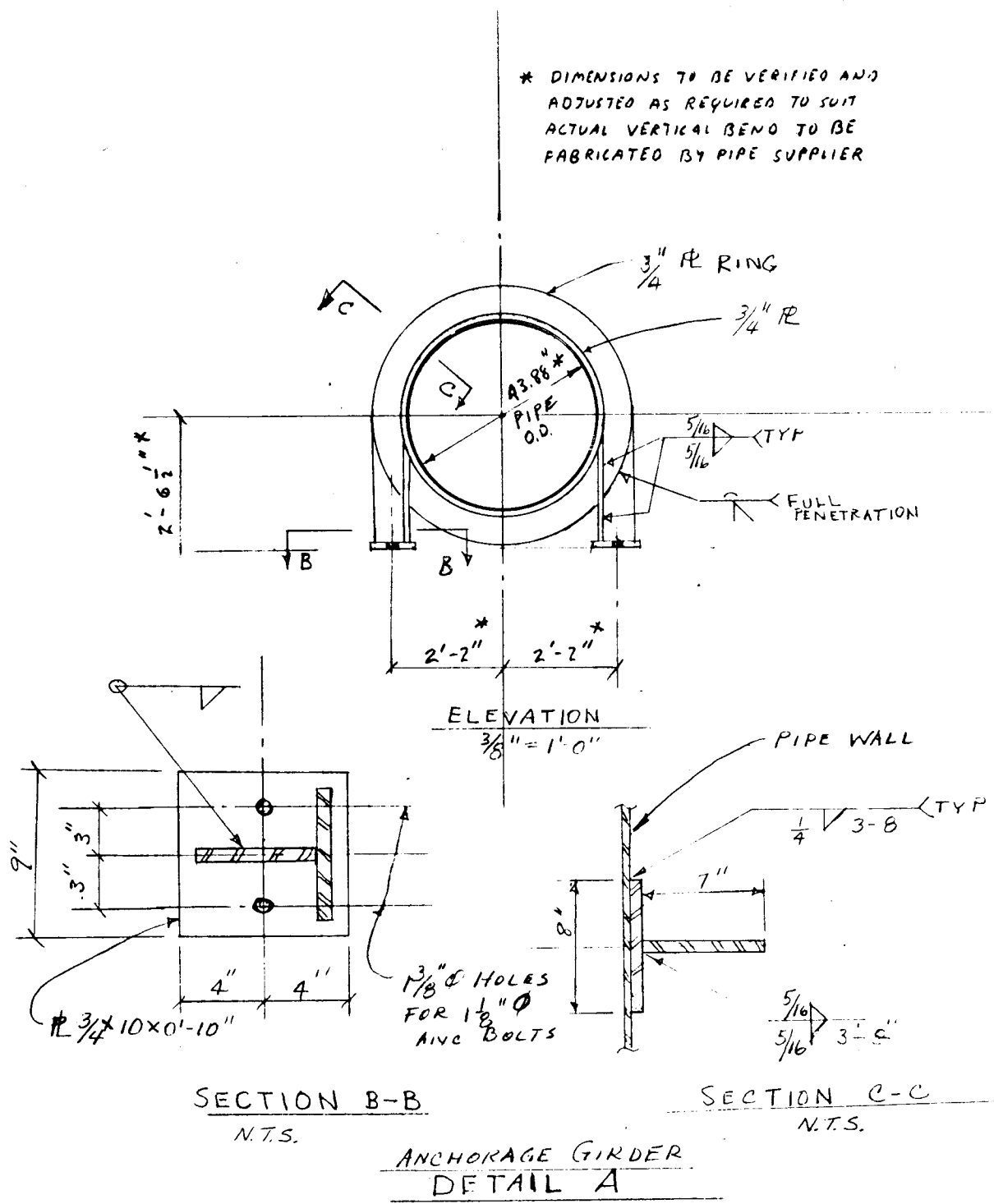
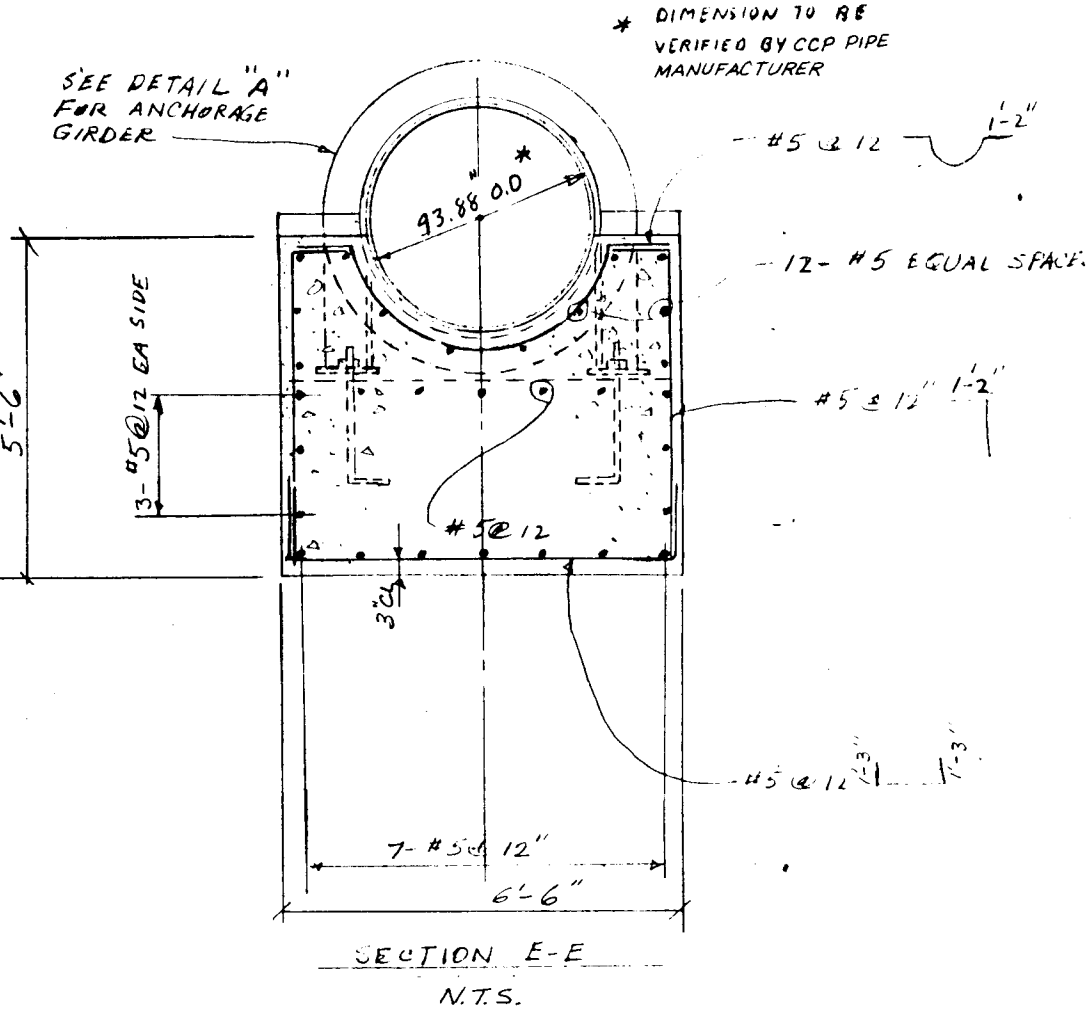
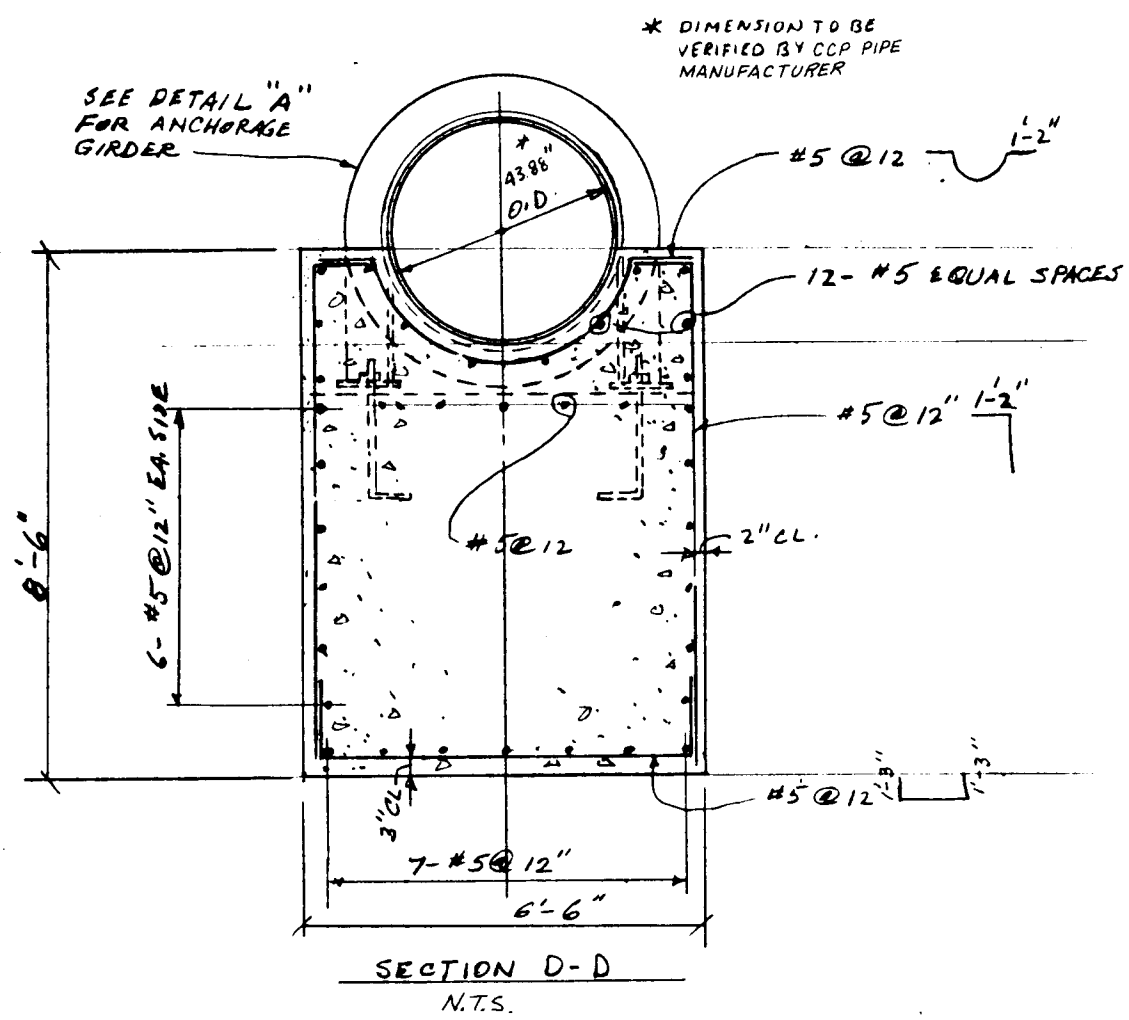
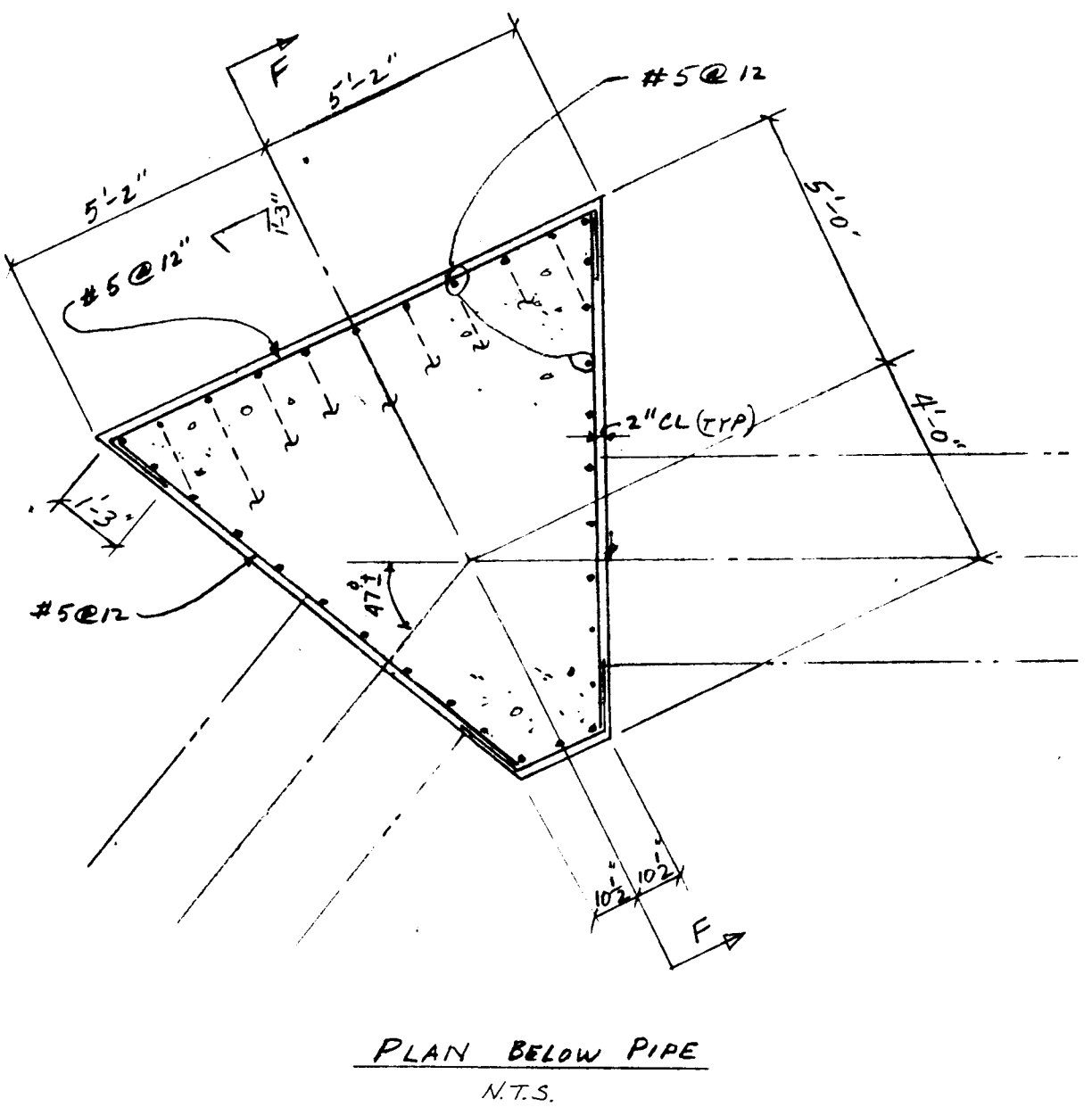
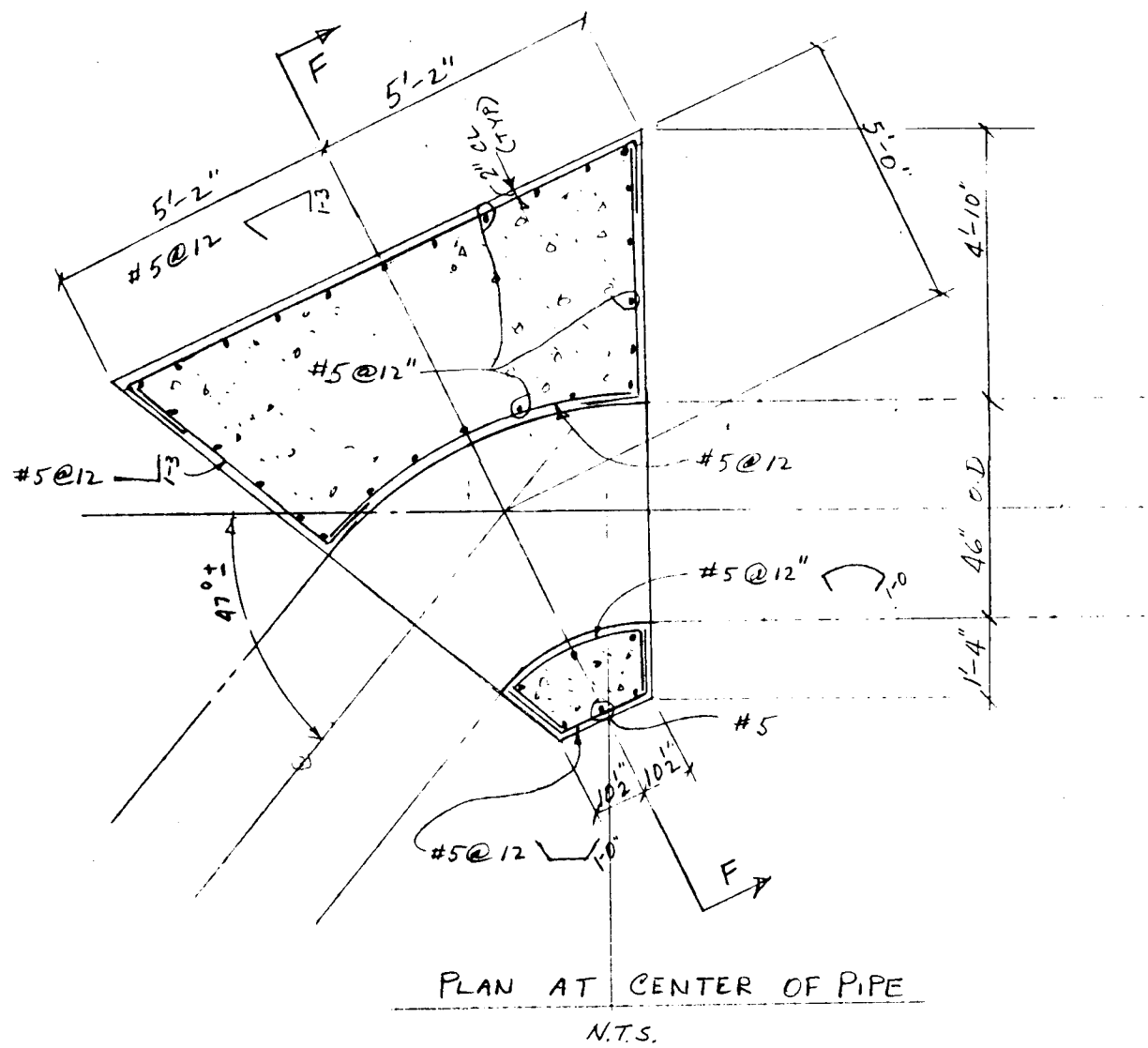
UPPER VERTICAL BEND AT
STATION 212+22.11 & STATION 213+45.11



LOWER VERTICAL BEND AT
STATION 212+04.31 & STATION 213+65.02



HORIZONTAL THRUST BLOCK DETAILS
AT STATION 212+18.62 W.L.



NO.	DESCRIPTION	DATE	BY
1	REVISIONS (OR CHANGE NOTICES)		
2			
3			

NEW MEXICO
STATE HIGHWAY DEPARTMENT

THRUST RESTRAINT

DETAILS FOR 42" WATER
TRANSMISSION LINE