



MEMO

TO: STEVE BOBERG

FROM: CLINT DODGE 

DATE: MAY 10, 1995

RE: TWELFTH STREET STORM DRAIN RECORD DRAWINGS

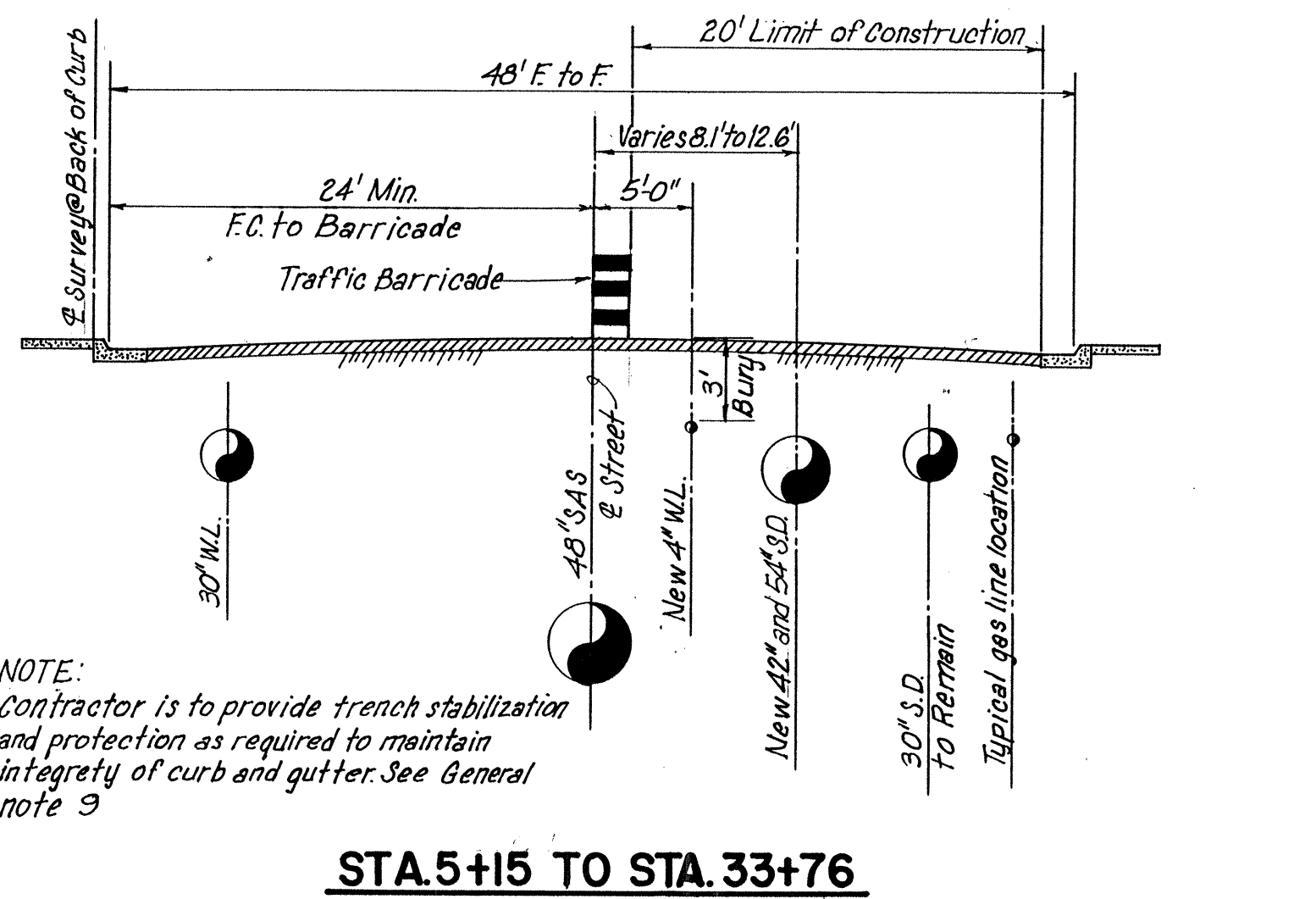
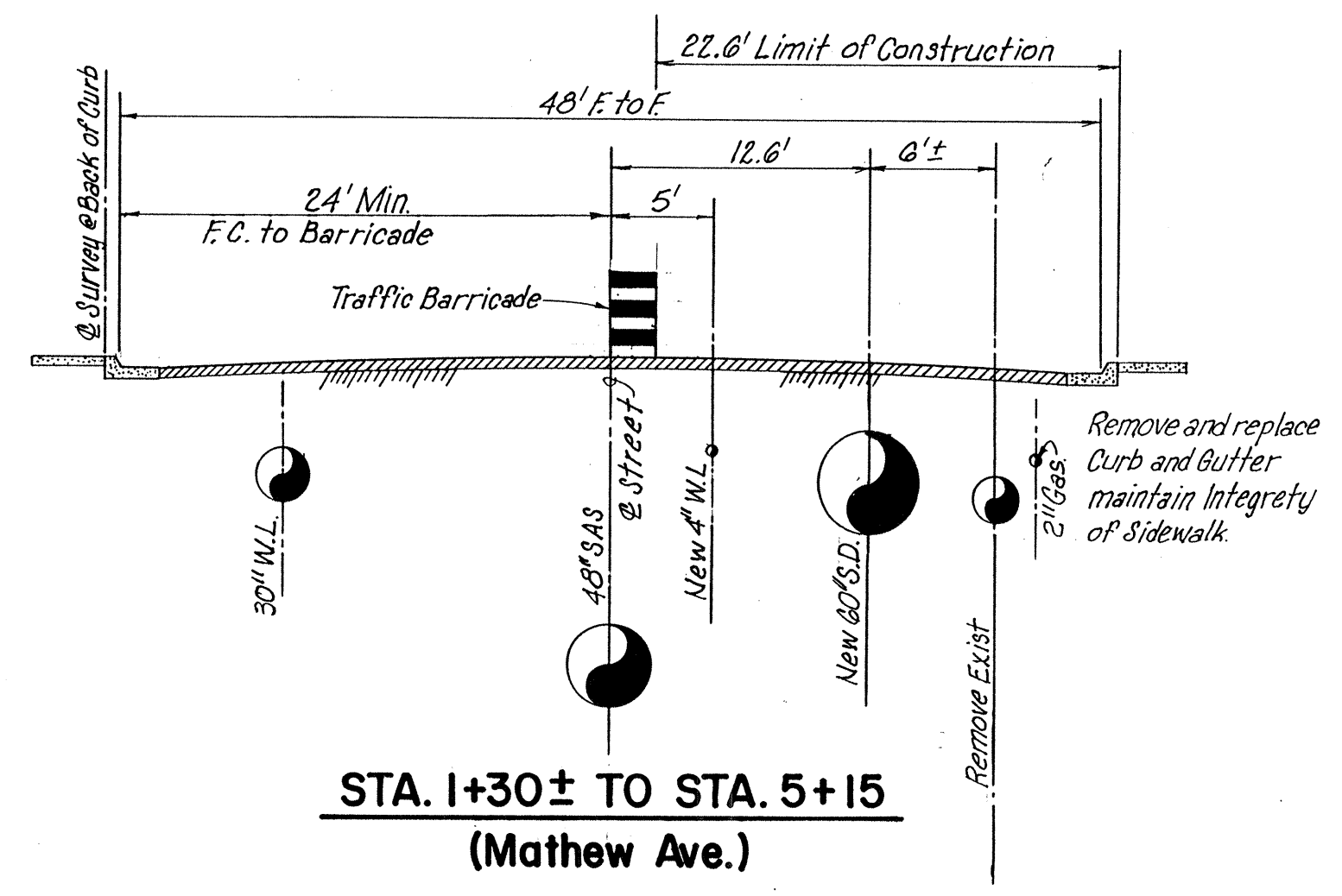
Enclosed is a set of prints of the drawings that we have in our files. It appears that correcting the drawings to "as-built" information might have been started but they are not stamped or signed off. This is the only information we have in the drawing files for this project (there are no mark-ups which haven't been transferred, etc.).

I checked the design and management files in our archives to see if there was any information concerning the "as-built" data. At the time of the project closeout (late 1985 and 1986), a significant amount of activity is in the files concerning the lawsuit between Cook Const., the City, AMAFCA and LH. My recollection is that this occurred just at the end of the project prior to the final change order and final pay estimate. In fact, I couldn't find a final pay estimate, just the lawsuit settlement agreement which agreed to a lump sum amount without any adjudication between projects or bid items.

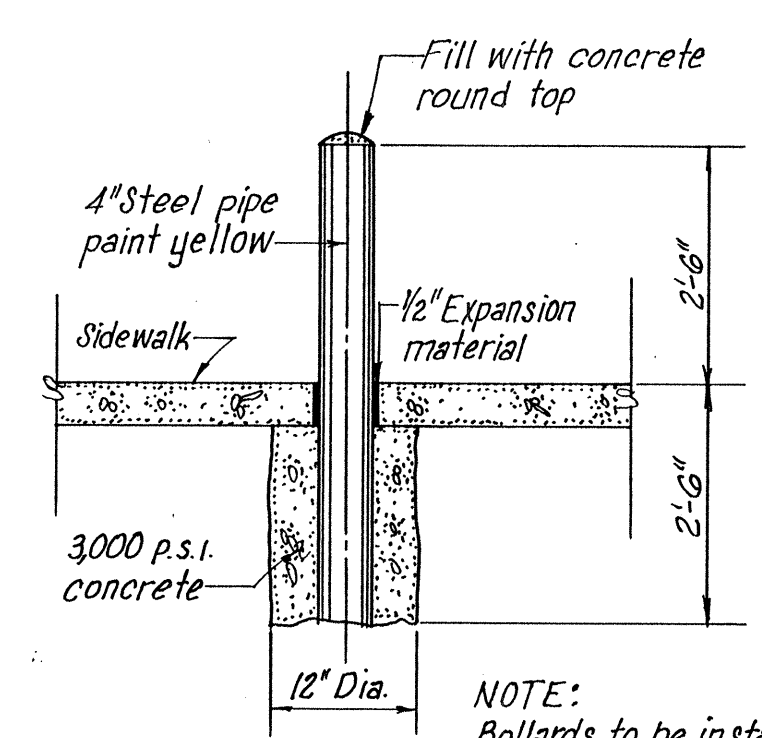
My guess is that after the settlement, the project was dropped like a hot potato by everyone and that we never received "as-built" information from the contractor.

LEGEND

PROPOSED	EXISTING	DESCRIPTION
NA	○	SANITARY SEWER MANHOLE.
●	○	STORM DRAIN MANHOLE.
SAS 8"CP	SAS 8"CP	SANITARY SEWER LINE WITH SIZE & TYPE.
SD 48"RCP	SD 48"RCP	STORM DRAIN LINE WITH SIZE & TYPE.
W 6"CI	W 6"CI	WATER LINE WITH SIZE & TYPE.
NA	E _{ug}	UNDERGROUND ELECTRICAL / TRAFFIC CONTROL.
NA	T _{ug}	UNDERGROUND TELEPHONE.
NA	G 2"H.P.	GAS LINES WITH SIZE & TYPE.
NA	CTV _{ug}	CABLE TELEVISION LINES.
		ENCASEMENT.
		STORM DRAIN INLETS.
		GATE VALVE.
		BUTTERFLY VALVE.
		FIRE HYDRANTS.
		REDUCERS.
		TEES.
		CROSSES.
NA	o _{WM}	WATER METER.
NA	o _{PP}	POWER POLE.
NA	□ _{TL}	TRAFFIC LIGHT.
		CURB AND GUTTER.
		SIDEWALK.
NA		RIGHT OF WAY LINES.
NA		PROPERTY LINES (SIDE).
	NA	CONSTRUCTION THIS PROJECT SPECIFIED ON DIFFERENT SHEET.



TYPICAL STREET SECTION (12th ST. N.W.)
SCALE: 1/8"=1'-0"

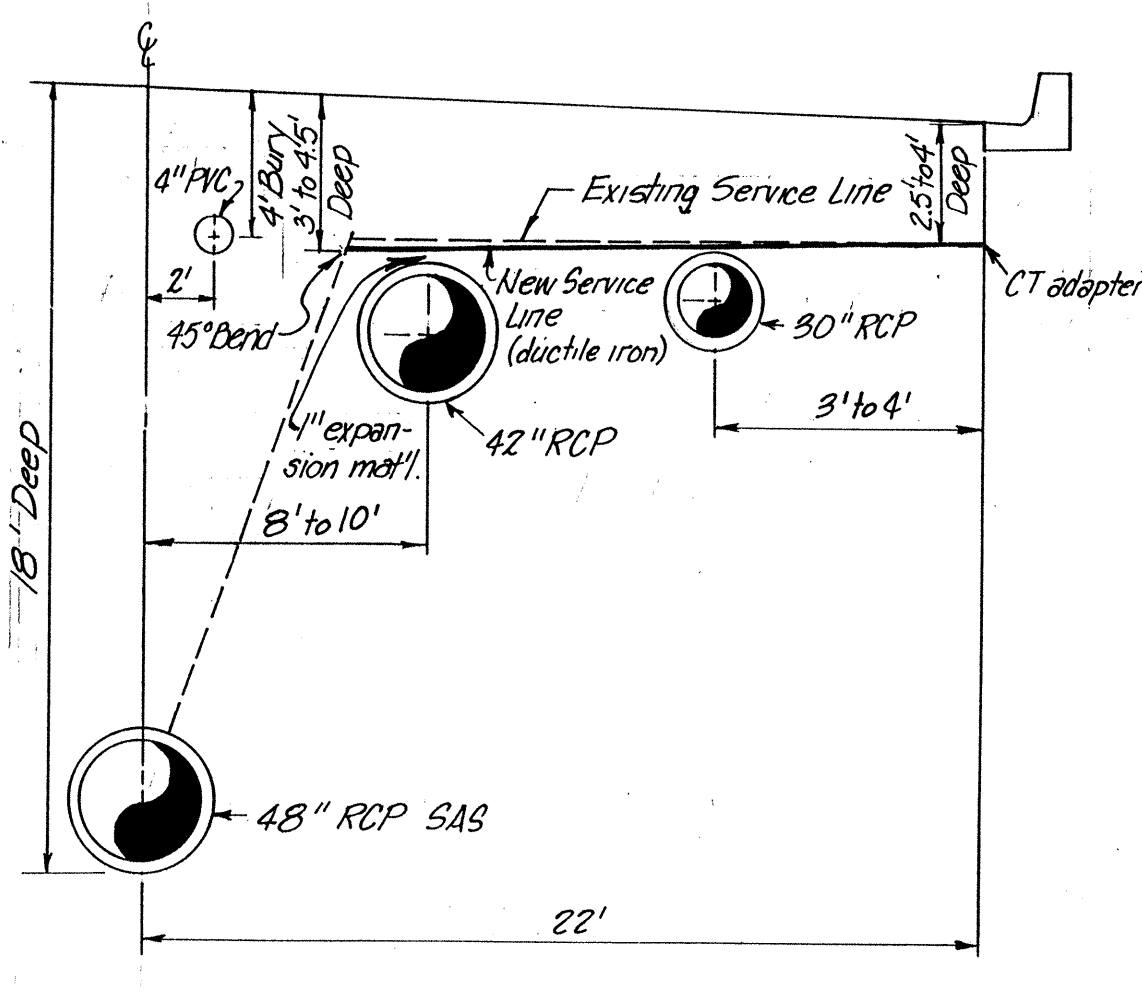


BOLLARD DETAIL

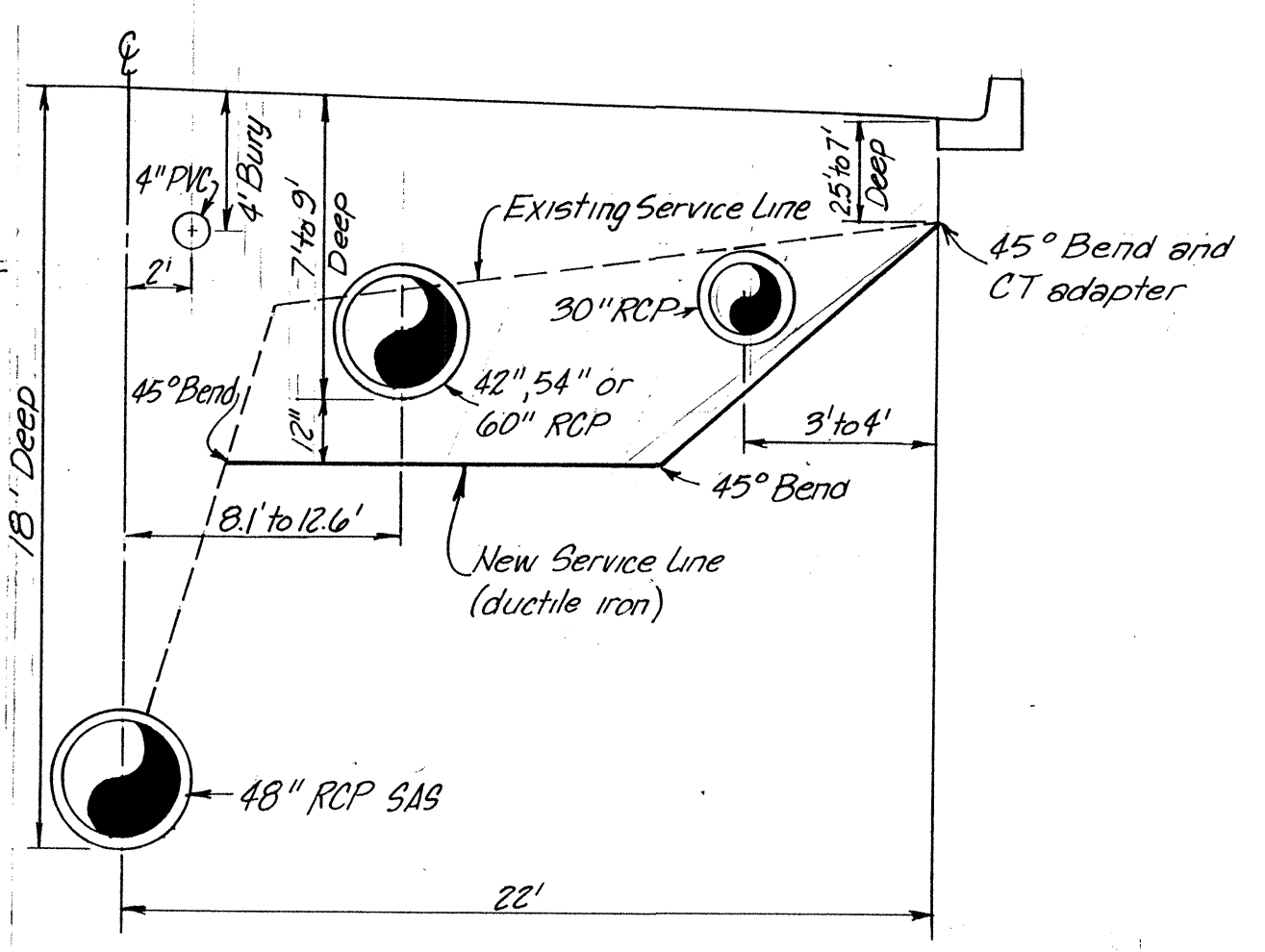
GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1979 EDITION (REFERRED TO HEREAFTER AS THE STANDARD SPECIFICATIONS) AND THE PROJECT SPECIFICATIONS TITLED "TWELFTH STREET STORM DRAIN".
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
- 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 MINIMUM AMOUNT OF DELAY.
- ALL NEW STREET PAVING, DRIVEWAYS, SIDEWALKS, AND CURB AND GUTTERS, ABUTTING EXISTING AREAS SHALL MATCH THE ELEVATION OF THOSE AREAS.
- WHEN ABUTTING NEW PAVEMENT TO EXISTING, CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT TO A STRAIGHT LINE, AS REQUIRED, TO REMOVE ANY BROKEN OR CRACKED PAVEMENT AND MATCH NEW TO EXISTING.
- THE FOLLOWING MATERIAL SHALL BE REMOVED FROM THE PROJECT AND STOCKPILED AS INDICATED IN SECTION 343 OF THE SUPPLEMENTAL TECHNICAL SPECIFICATIONS:

CURB AND GUTTER
CATCH BASINS
SIDEWALK
DRIVEPADS
- ALL COSTS INCURRED IN HAULING THIS MATERIAL TO THE DISPOSAL SITE DESIGNATED SHALL BE INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE.
- THE CONTRACTOR SHALL EXERCISE DUE CARE TO AVOID DISTURBING EXISTING UNDERGROUND UTILITIES. IT SHALL BE HIS RESPONSIBILITY TO COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION.
- ALL REFERENCE TO CITY STANDARD DRAWINGS WILL BE PER CITY OF ALBUQUERQUE CONTRACT DOCUMENTS FOR PUBLIC WORKS CONTRACT NO. S4-3.
- CONTRACTOR IS TO PROVIDE TRENCH STABILIZATION AND PROTECTION AS REQUIRED TO SATISFY SAFETY AND OSHA REQUIREMENTS AND TO LIMIT THE TRENCH WIDTHS TO THOSE SHOWN ON THE TYPICAL STREET SECTIONS. (SHEET 2) PAVING, CURB AND GUTTER, SIDEWALK AND OTHER EXISTING CONSTRUCTION DAMAGED OUTSIDE THE LIMIT OF CONSTRUCTION AS SHOWN ON SHEET 2 OR AS REQUIRED FOR INLETS, STRUCTURES AND OTHER INCIDENTALS AS SHOWN ON THE PLAN SHEETS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- GAS LINE TO BE RELOCATED BY OTHERS WHERE REQUIRED. CONTRACTOR SHALL COORDINATE RELOCATION OF GAS LINE WITH GAS CO. OF NEW MEXICO.
- CONTRACTOR TO BACKFILL MANHOLES LOCATED ON MATTHEW S.D. BETWEEN 4TH ST. AND 12TH ST. MANHOLES IN PAVING ARE TO BE PLUGGED AND FILLED WITH SAND. MANHOLES NOT IN PAVING ARE TO BE PLUGGED, FRAME AND COVER SALVAGED TOP 4\"/>
- ALL PAVEMENT CUTS, BACKFILL AND PAVEMENT REPLACEMENT SHALL BE IN ACCORDANCE WITH DWG. P-25-3. BITUMINOUS BASE COURSE MAY BE SUBSTITUTED FOR SURFACE COURSE ON 12TH STREET FROM ALAMEDA DRAIN TO CANDELARIA SINCE THIS PORTION IS SCHEDULED FOR OVERLAY. ALL PAVEMENT REPLACEMENT SHALL BE ARTERIAL SECTION EXCEPT MAJOR AVE. AND GARDEN PARK RD. WHICH SHALL BE RESIDENTIAL SECTION.
- CONTRACTOR TO COORDINATE ALL CONSTRUCTION ACTIVITIES IN THE ALAMEDA DRAIN AND THE LOWERING OF THE GRIEGOS LATERAL IF REQUIRED WITH MRGCD THROUGH ENGINEER. NOTE THAT PORTION OF THIS CONSTRUCTION MAY NEED TO BE PERFORMED DURING THE IRRIGATION SEASON.
- CONTRACTOR MAY SUBSTITUTE A 20\"/>

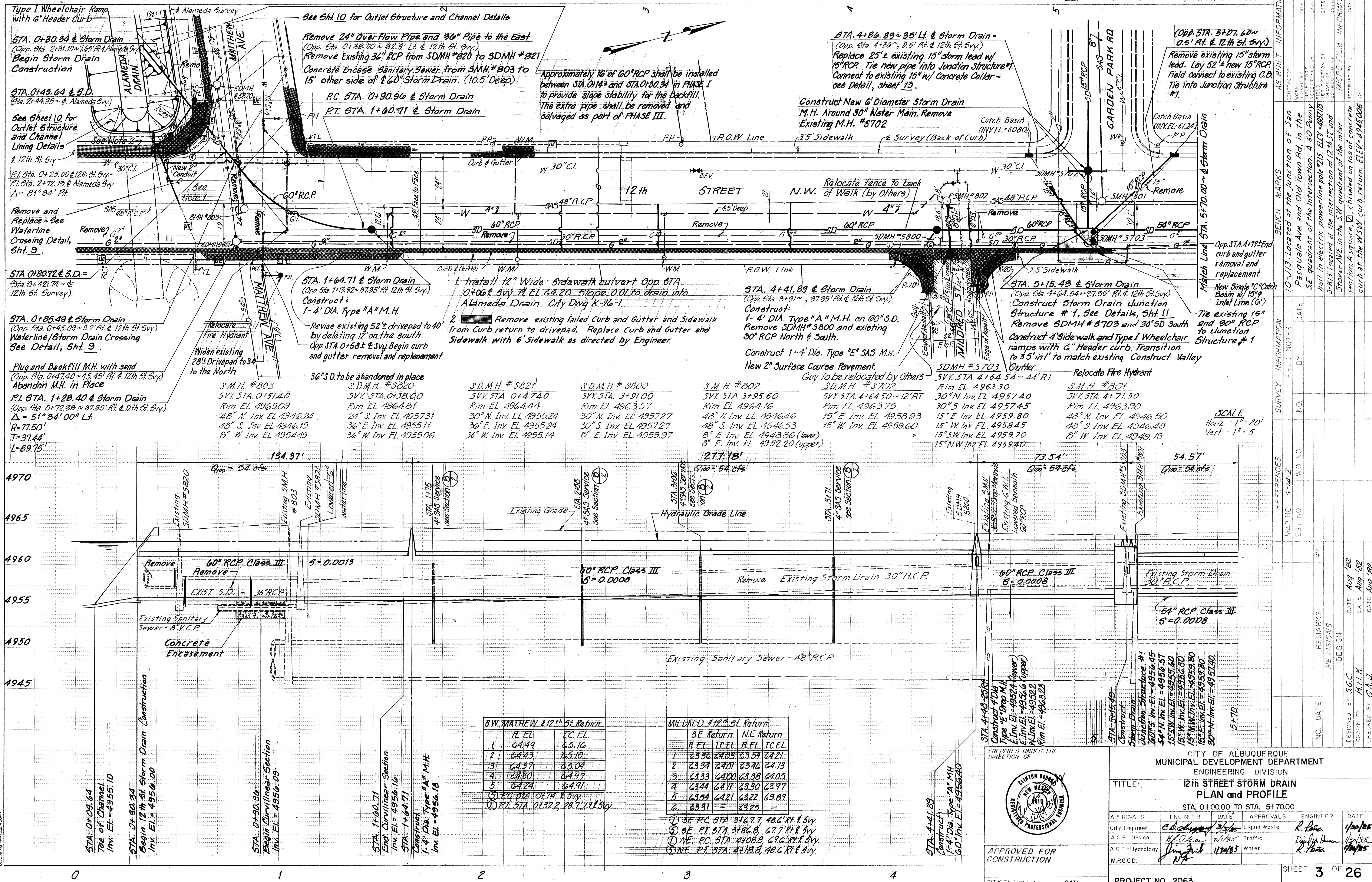


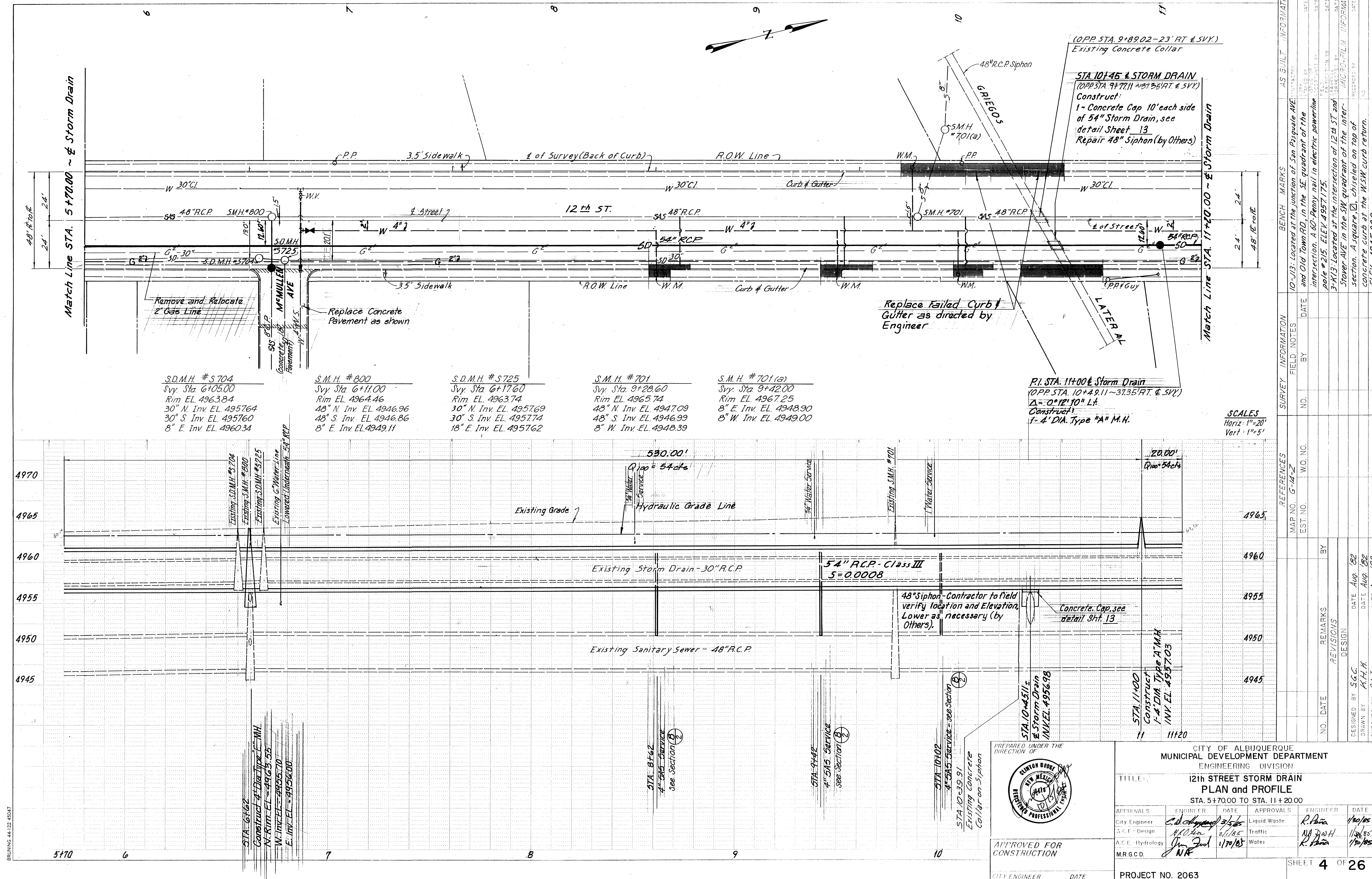
CASE 1 SAS SERVICE OVER NEW STORM DRAIN
NOT TO SCALE

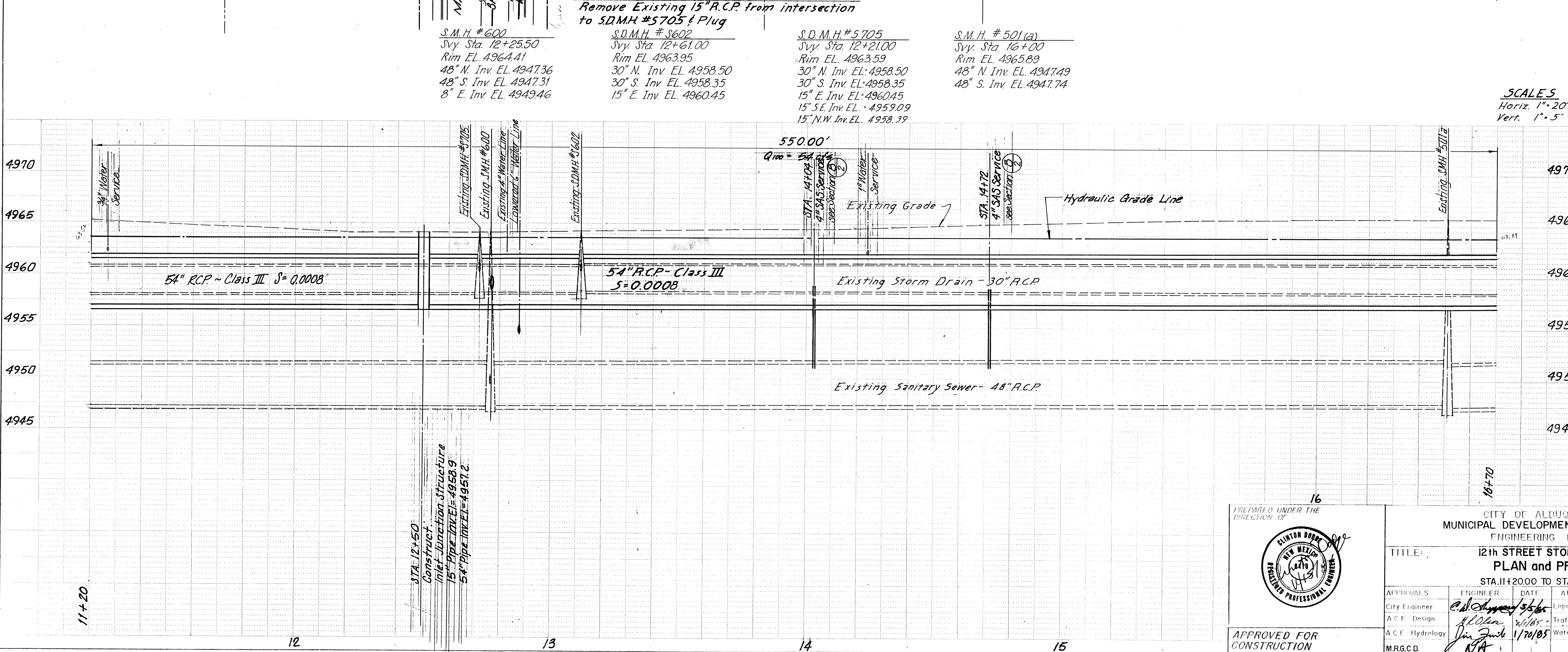
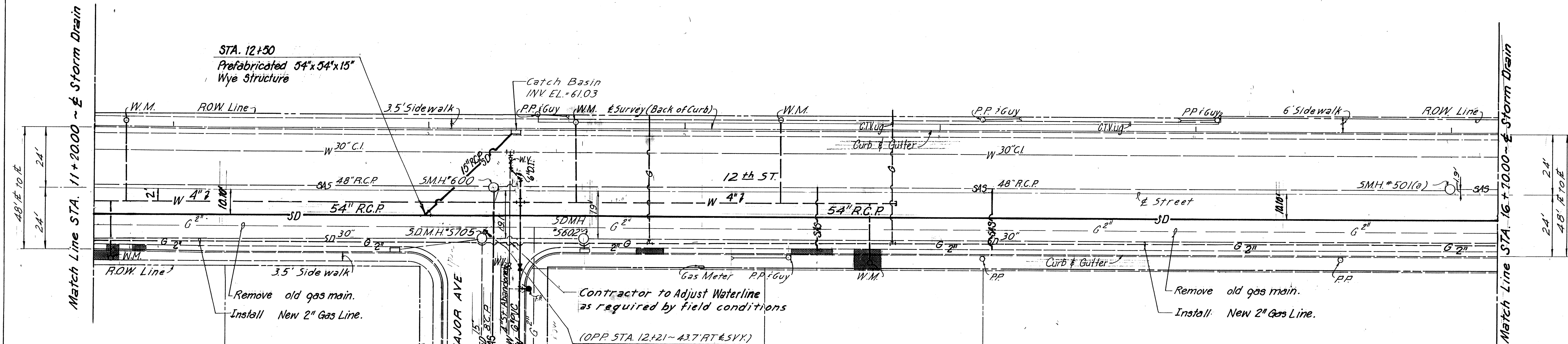
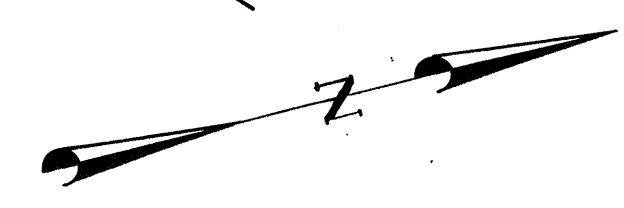


CASE 2 SAS SERVICE BENEATH NEW STORM DRAIN
NOT TO SCALE

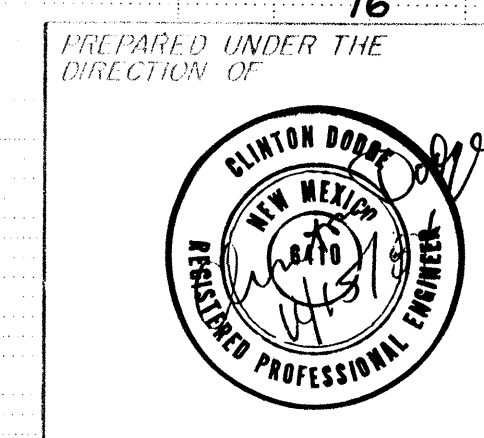
CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION	
TITLE: 12 TH. STREET STORM DRAIN	
LEGEND, GENERAL NOTES AND DETAILS	
APPROVED FOR CONSTRUCTION	DATE: 1/30/85
CITY ENGINEER	DATE: 1/30/85
ACE Design	DATE: 1/30/85
ACE Hydrology	DATE: 1/30/85
MR.G.C.D.	DATE: 1/30/85
SHEET 2 OF 26	
PROJECT NO. 2063	







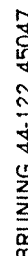
SCALES
Horiz. 1"=20'
Vert. 1"=5'

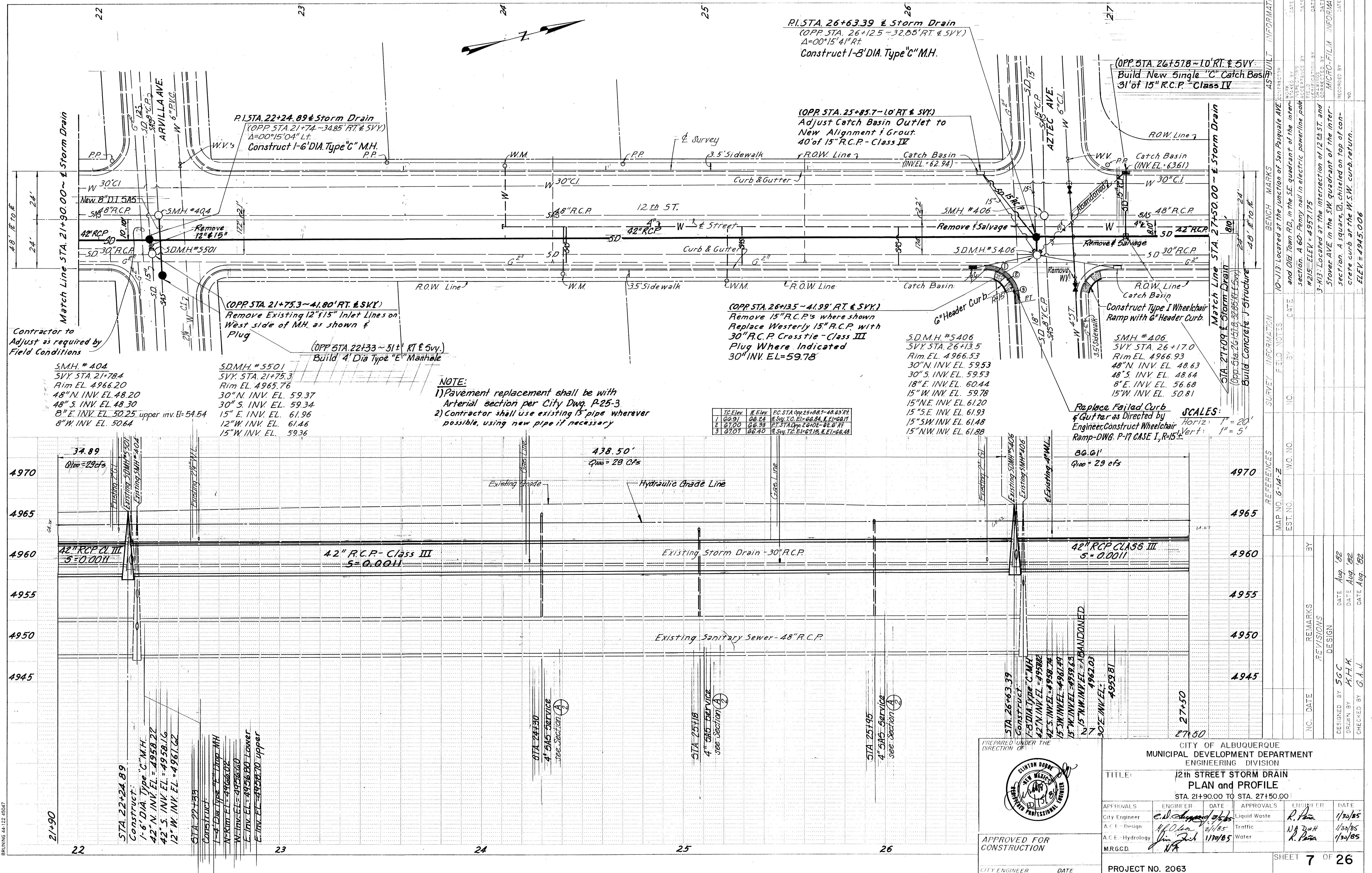


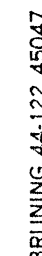
APPROVED FOR
CONSTRUCTION

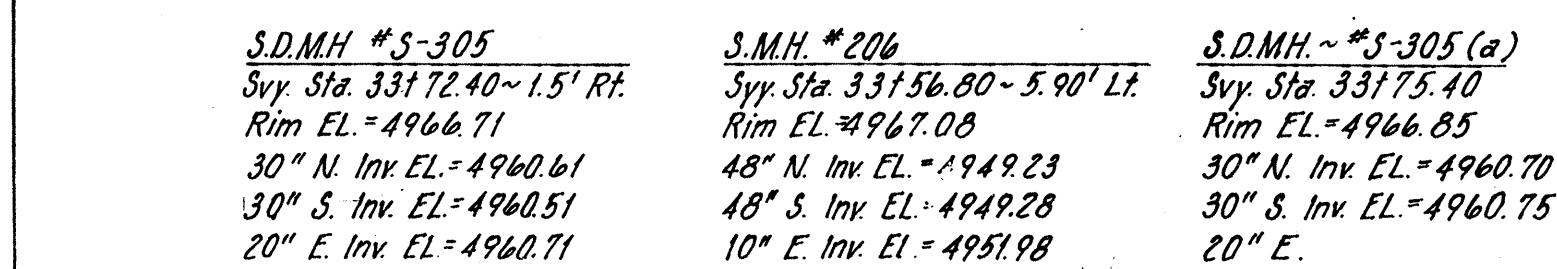
CITY ENGINEER DATE

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: 12th STREET STORM DRAIN PLAN and PROFILE					
STA. 11+20.00 TO STA. 16+70.00					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
CITY Engineer	<i>R. Pina</i>	1/30/85	Liquid Waste	<i>R. Pina</i>	1/30/85
A.C.E. Design	<i>J. Pina</i>	1/30/85	Traffic	<i>R. Pina</i>	1/30/85
A.C.E. Hydrology	<i>J. Pina</i>	1/30/85	Water	<i>R. Pina</i>	1/30/85
M.R.G.C.D.	<i>NA</i>				
PROJECT NO. 2063			SHEET 5 OF 26		

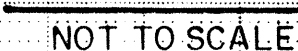








1. Prior to fabrication of concrete cylinder pipe and connector gaskets to existing 30" C.I. Pipe, Contractor shall field verify actual outer dimensions of existing cast iron pipe. Concrete cylinder pipe manufacturer shall manufacture complete connection to cast iron pipe.
2. All concrete cylinder pipe joints shall be joined by butt straps.
3. Replacement concrete cylinder pipe shall be designed to withstand the bending moments from 150 p.s.i. static pressure. Design calculations, dimensions, elevations and locations of the replacement pipe shall be approved by the Engineer prior to fabrication. Coupling between the C.I. and C.C.P. shall provide adequate flexibility to remain watertight if the pipe deflects under pressurization.
4. Waterline replacement details may change due to field conditions which will be accommodated by change order if necessary.
5. Air and vacuum release valve See City DWG. W24-2.
6. Backfill waterlines prior to pressurizing

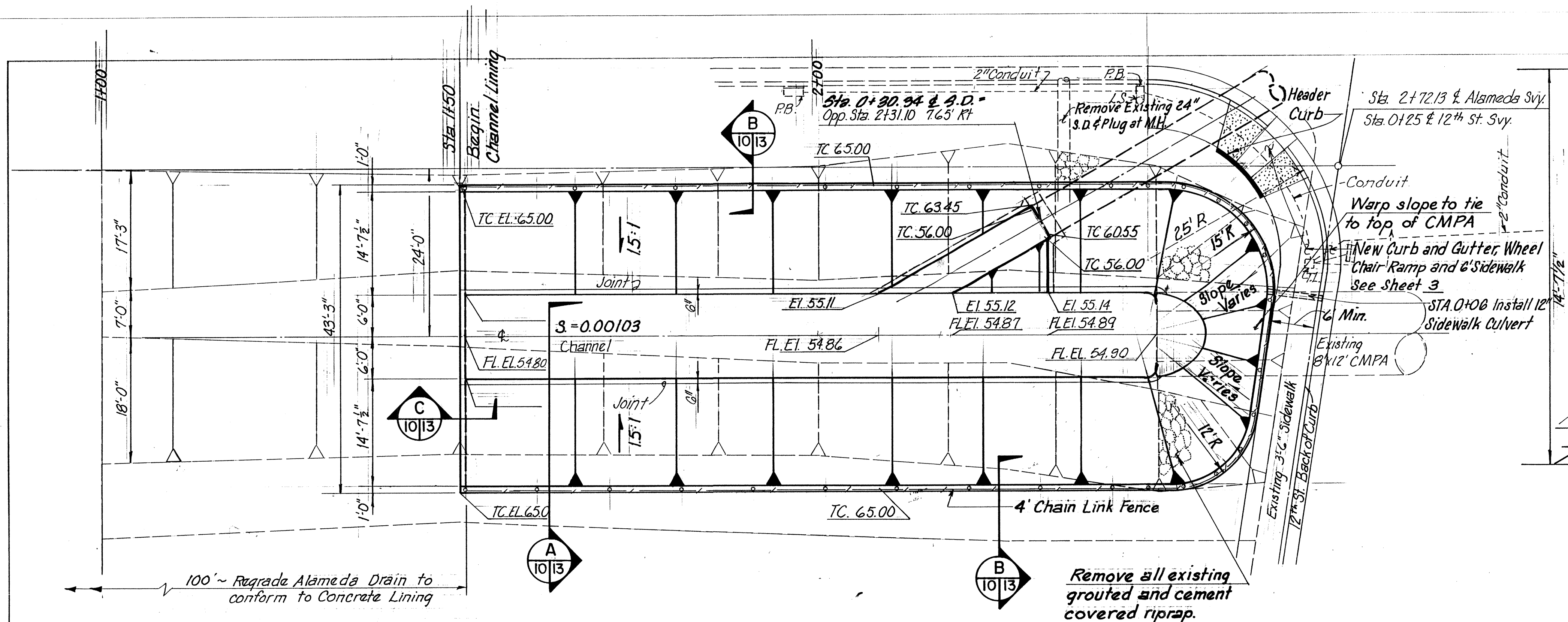


CITY ENGINEER DATE

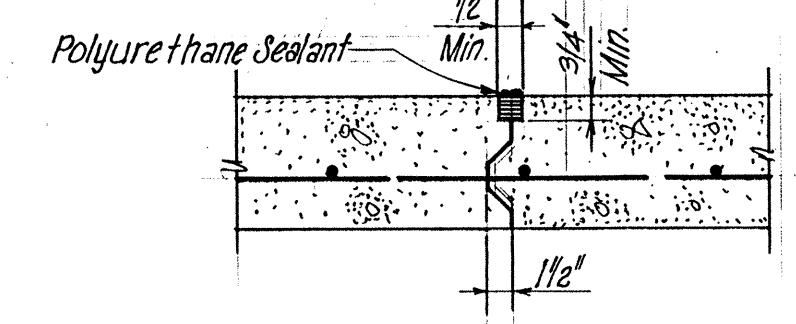
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER
City Engineer	<i>C. J. Hopper</i>	<i>3/6/85</i>	Liquid Waste	<i>R. A. Hopper</i>
A C E - Design	<i>g. J. Hopper</i>	<i>3/1/85</i>	Traffic	<i>N. A. Hopper</i>
A C E - Hydrology	<i>Jim Zink</i>	<i>1/20/85</i>	Water	<i>R. A. Hopper</i>
MRGCD	<i>NA</i>			

PROJECT NO. 2063

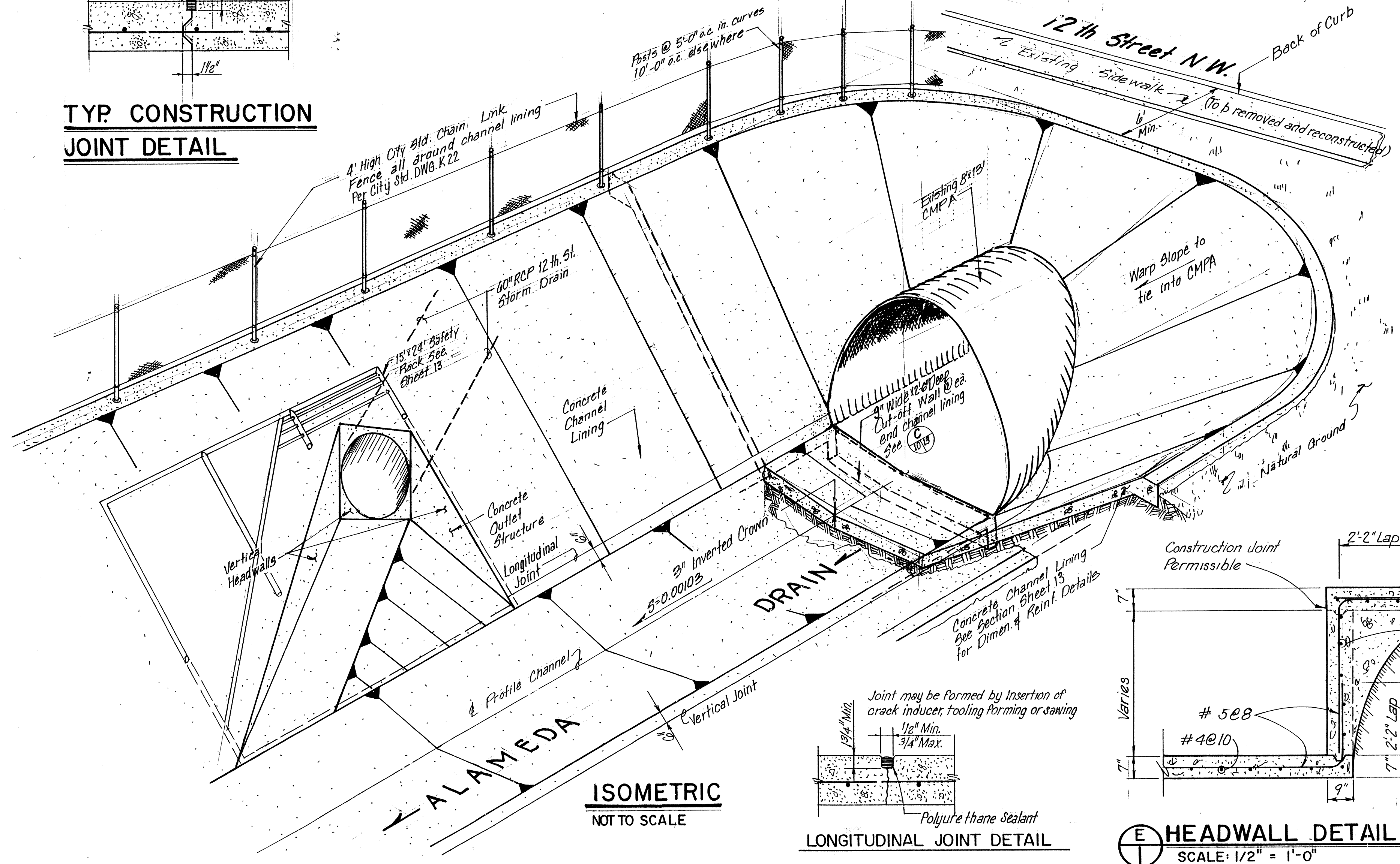
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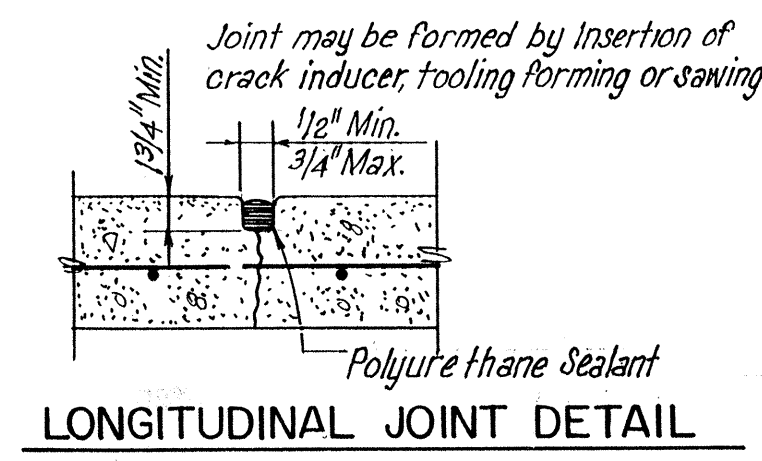
LAYOUT PLAN
SCALE: 1" = 10'



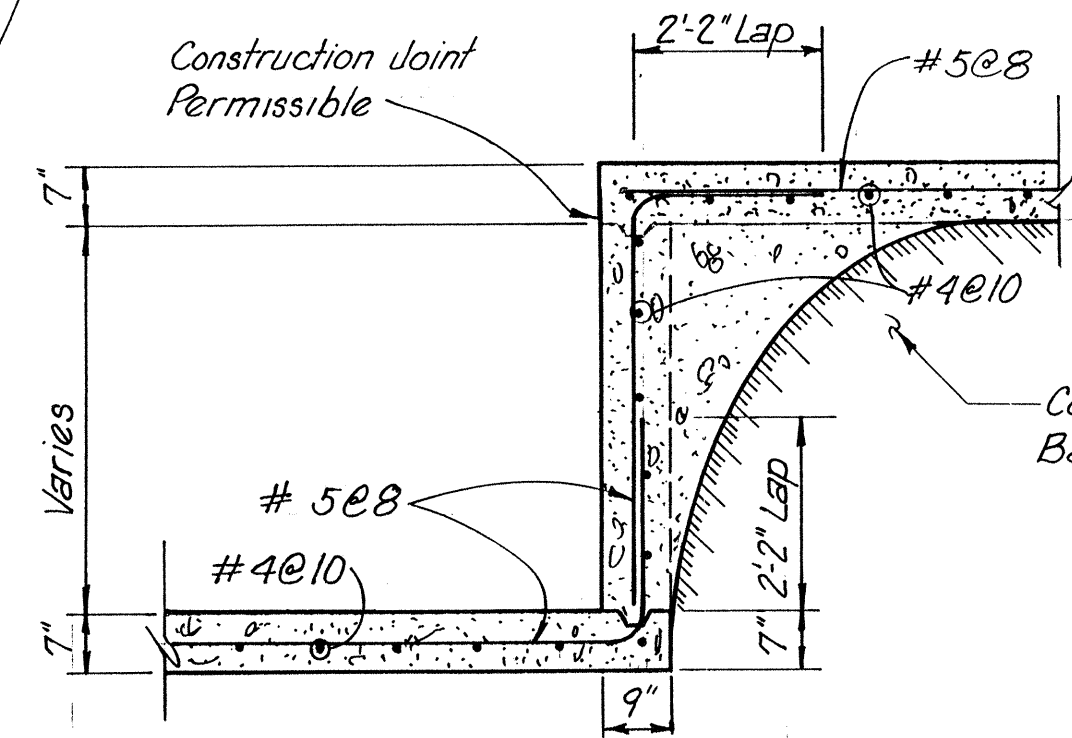
TYP. CONSTRUCTION
JOINT DETAIL



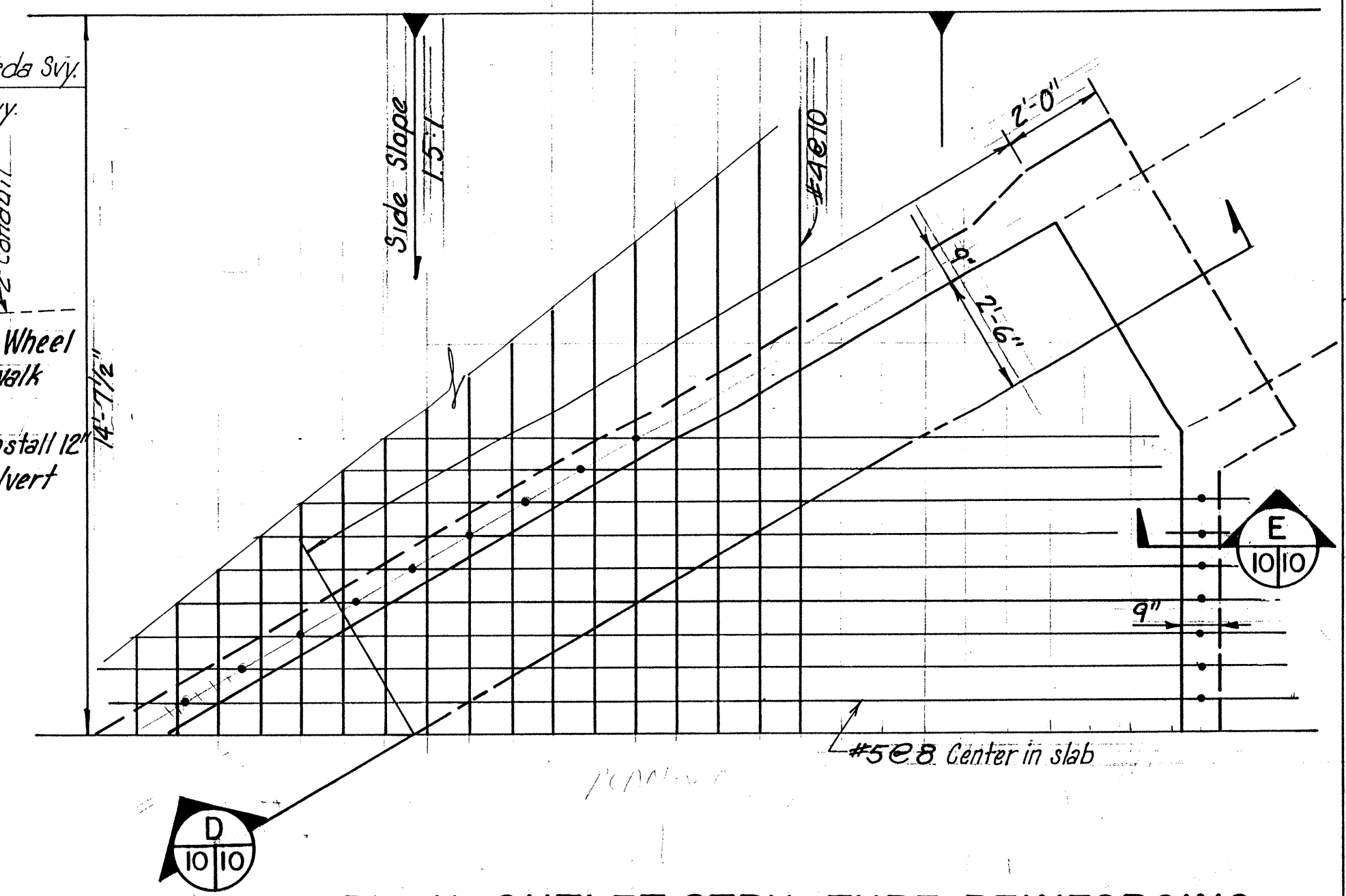
ISOMETRIC
NOT TO SCALE



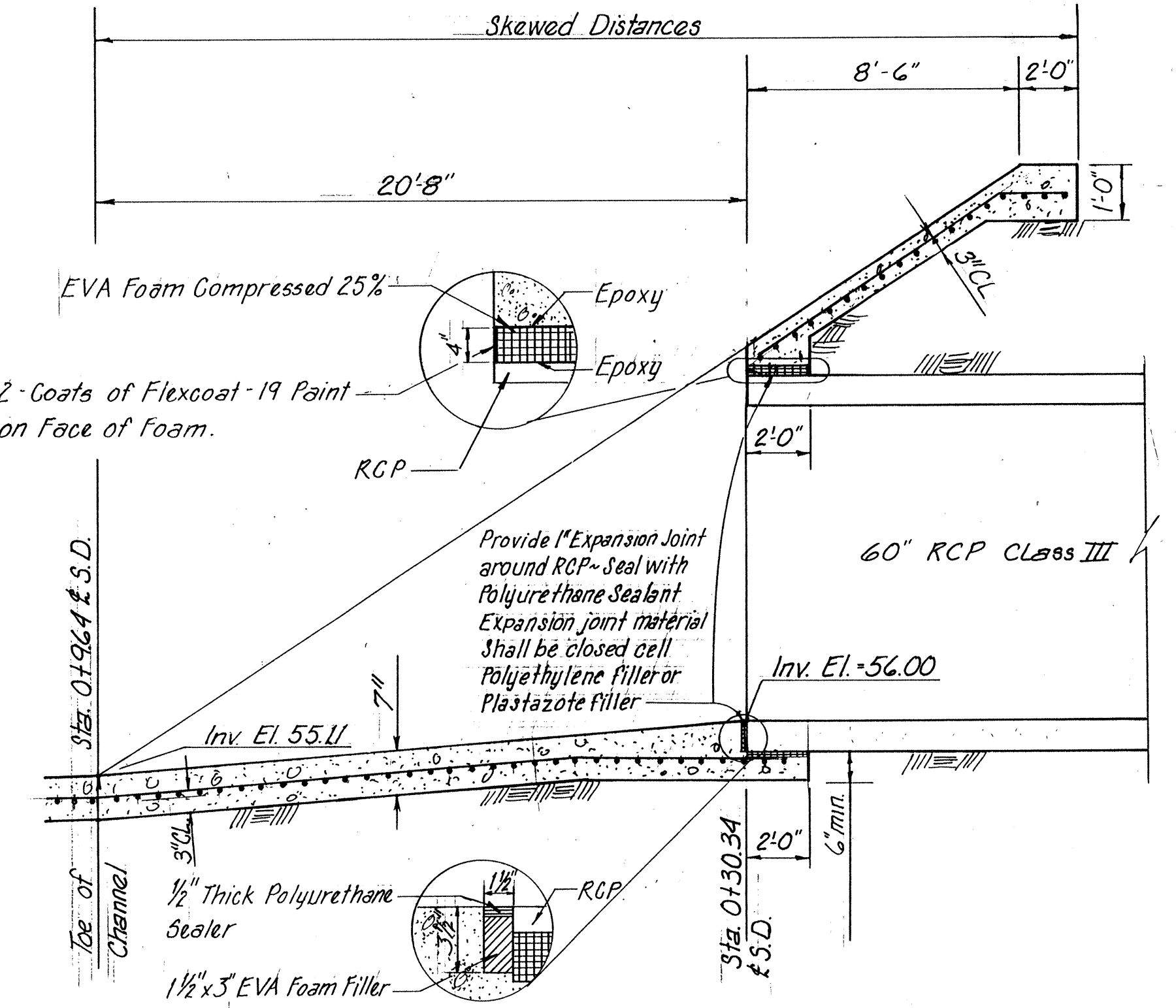
Polyurethane Sealant
LONGITUDINAL JOINT DETAIL



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

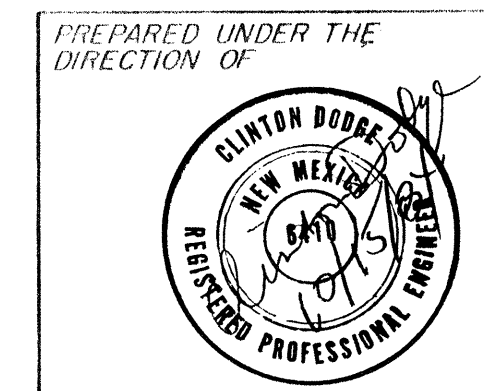


PLAN-OUTLET STRUCTURE REINFORCING
SCALE: 3/8" = 1'-0"



OUTLET STRUCTURE SKEWED SECTION
SCALE: 1" = 4' HORIZ.
1" = 2' VERT.

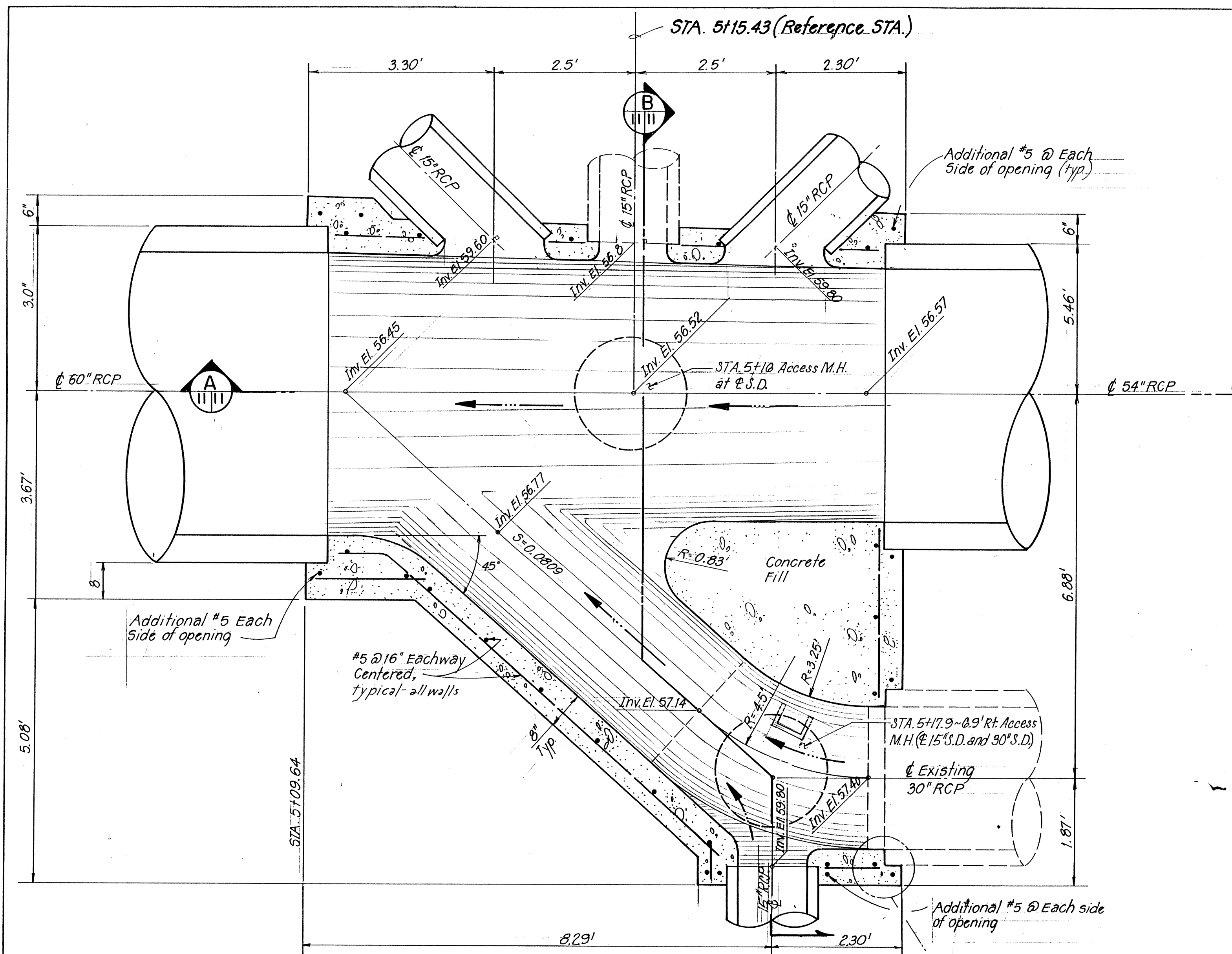
NOTE:
TC = Top Concrete



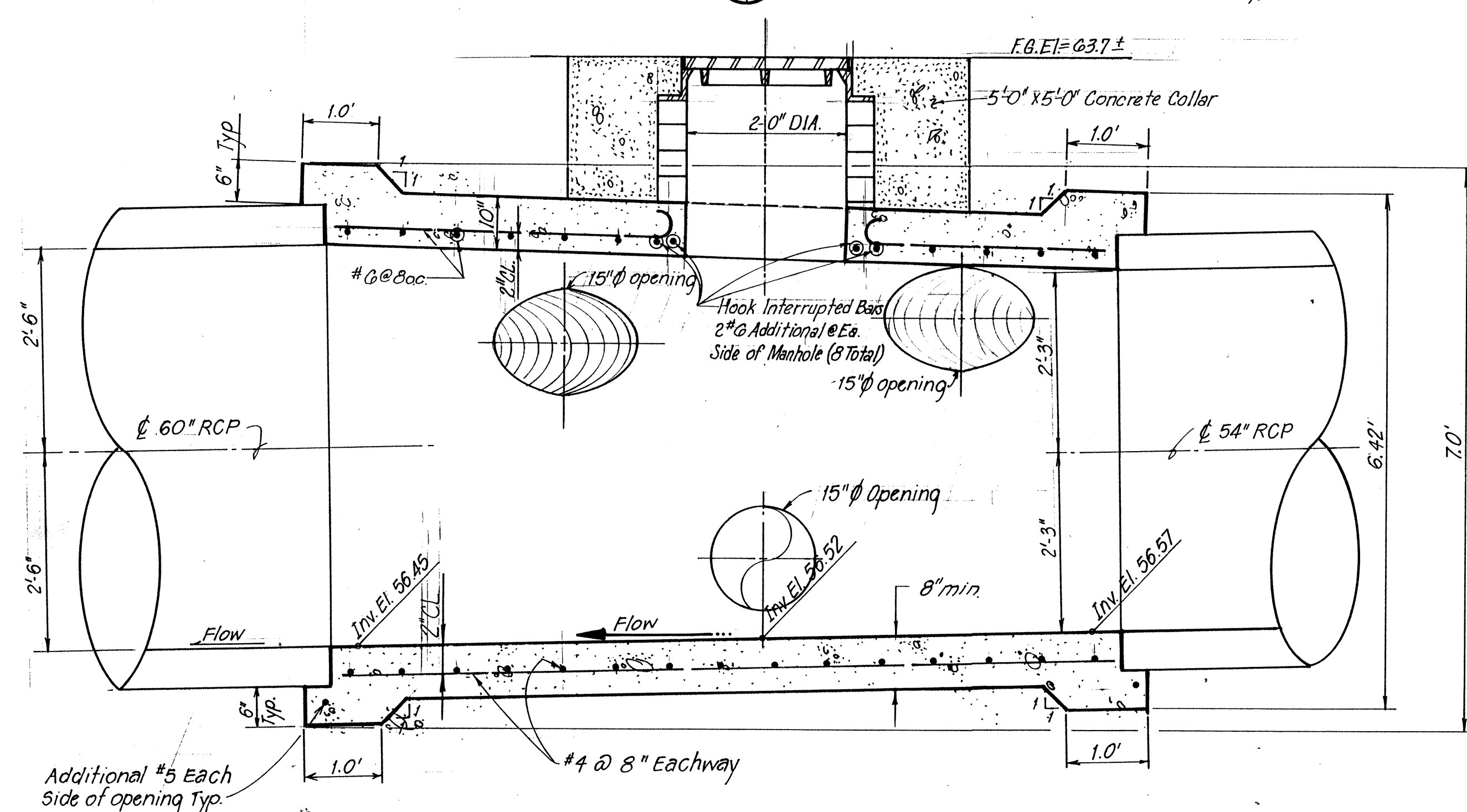
APPROVED FOR
CONSTRUCTION

CITY ENGINEER DATE

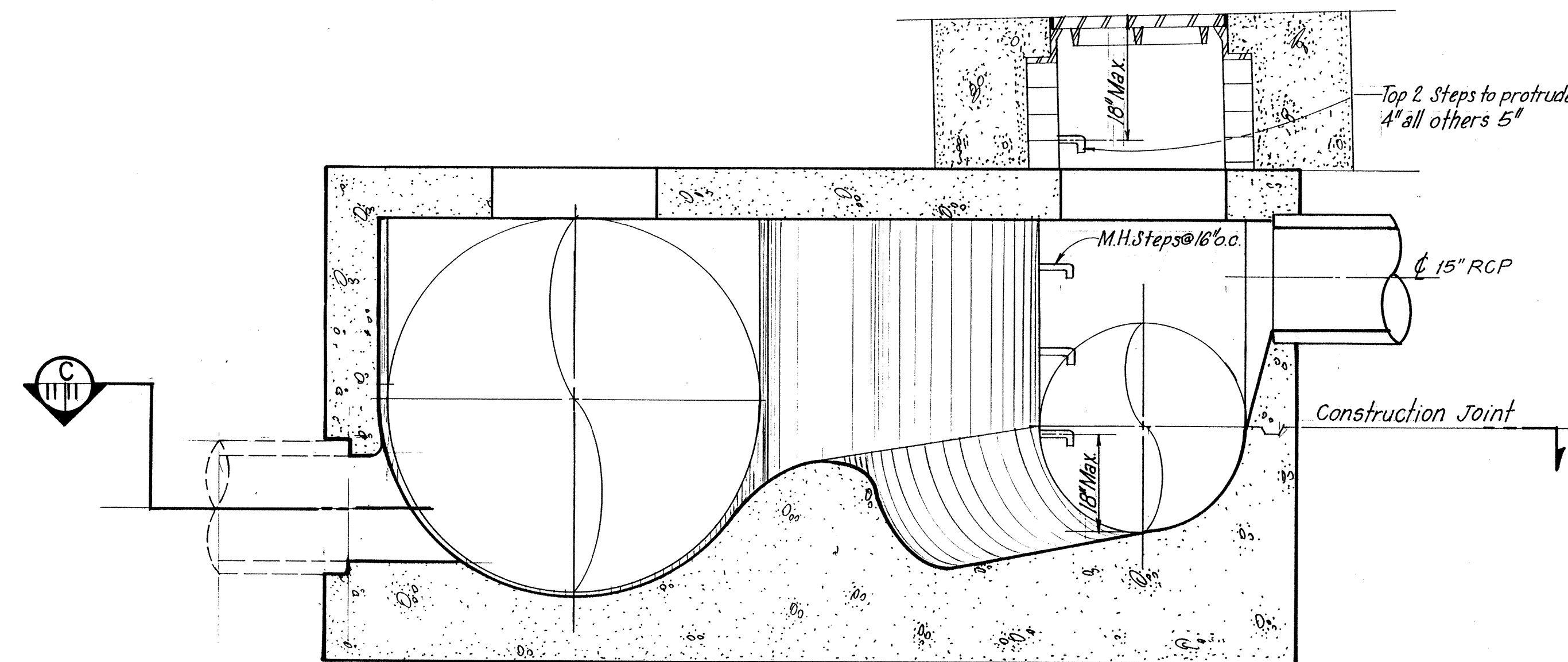
CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: 12th STREET STORM DRAIN OUTLET STRUCTURE PLAN AND DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>A. J. Lopez</i>	5/5/85	Liquid Waste	<i>R. Pina</i>	1/30/85
A.C.E. Design	<i>R. Pina</i>	4/1/85	Traffic	<i>A. J. Lopez</i>	1/30/85
A.C.E. Hydrology	<i>Jim Zeb</i>	1/30/85	Water	<i>R. Pina</i>	1/30/85
M.R.G.C.D.	<i>NA</i>				



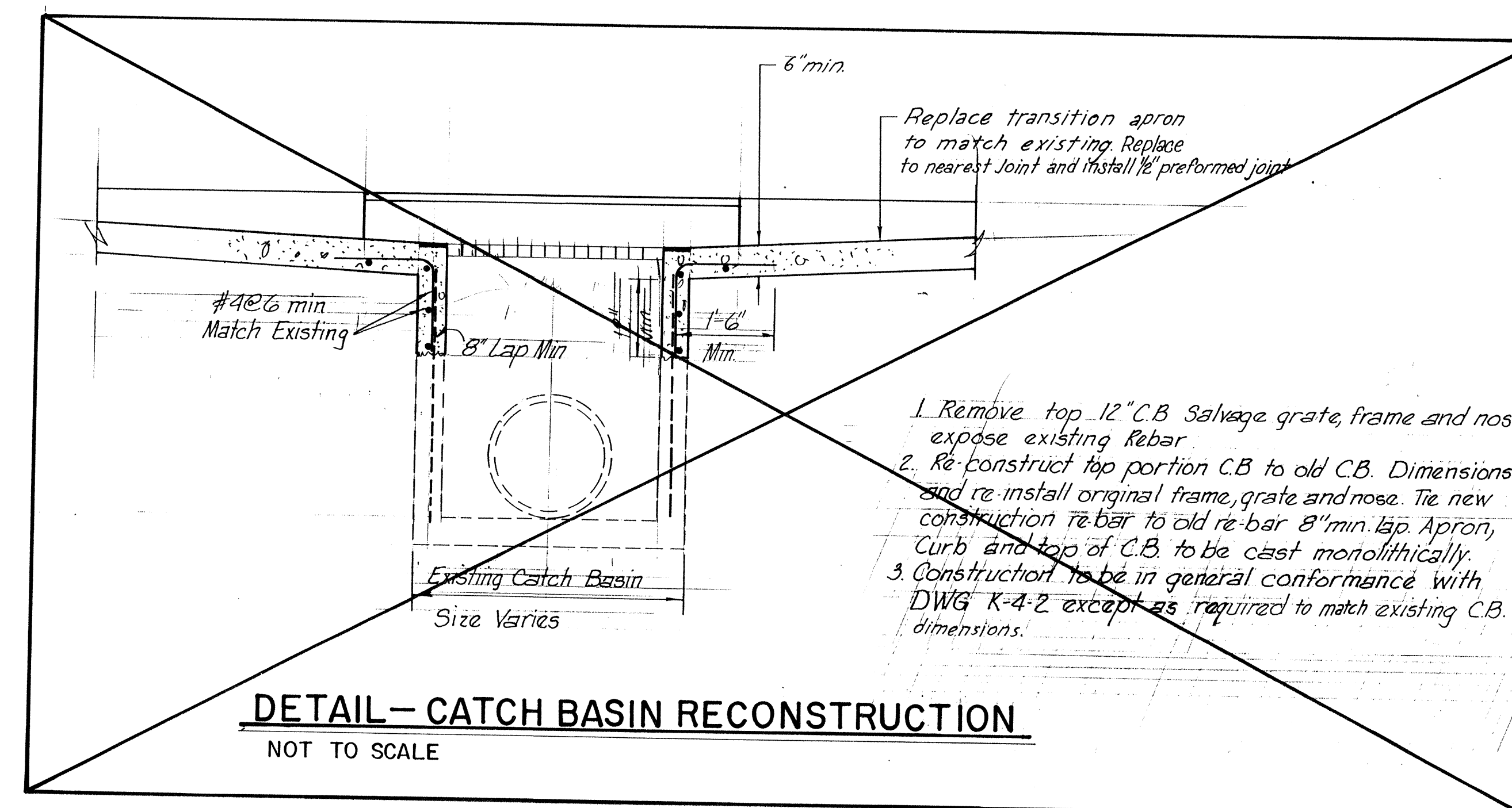
PLAN-SECTION
SCALE: 3/4" = 1'-0"



SECTION A-A
SCALE: 3/4" = 1'-0"



SECTION B-B
SCALE: 3/4" = 1'-0"



DETAIL - CATCH BASIN RECONSTRUCTION
NOT TO SCALE

1. Remove top 12" C.B. Salvage grate, frame and nose expose existing rebar.
2. Re-construct top portion C.B. to old C.B. Dimensions and re-install original frame, grate and nose. Tie new construction rebar to old re-bar 8" min. lap. Apron, Curb and top of C.B. to be cast monolithically.
3. Construction to be in general conformance with DWG K-4-2 except as required to match existing C.B. dimensions.

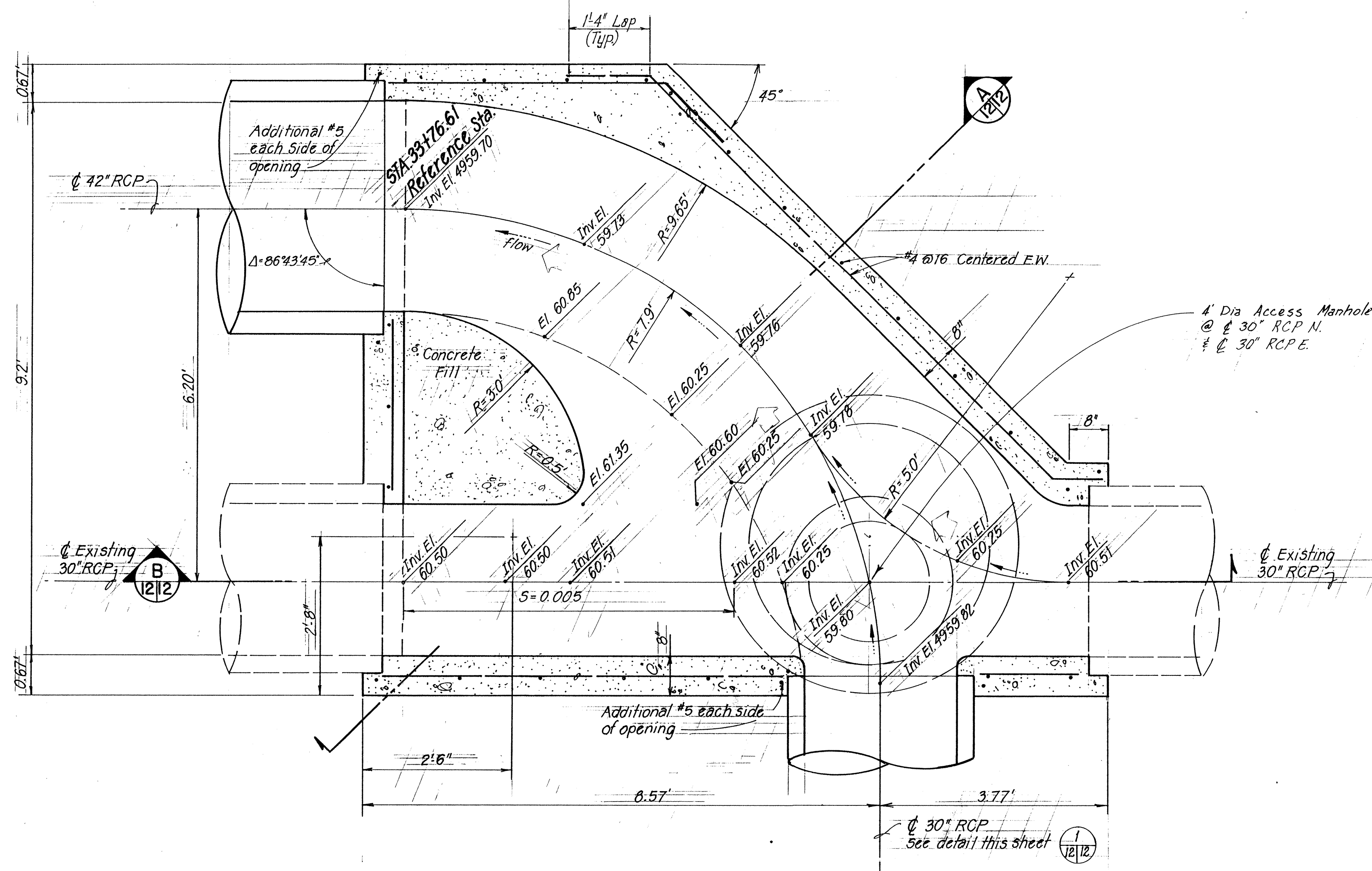


APPROVED FOR
CONSTRUCTION

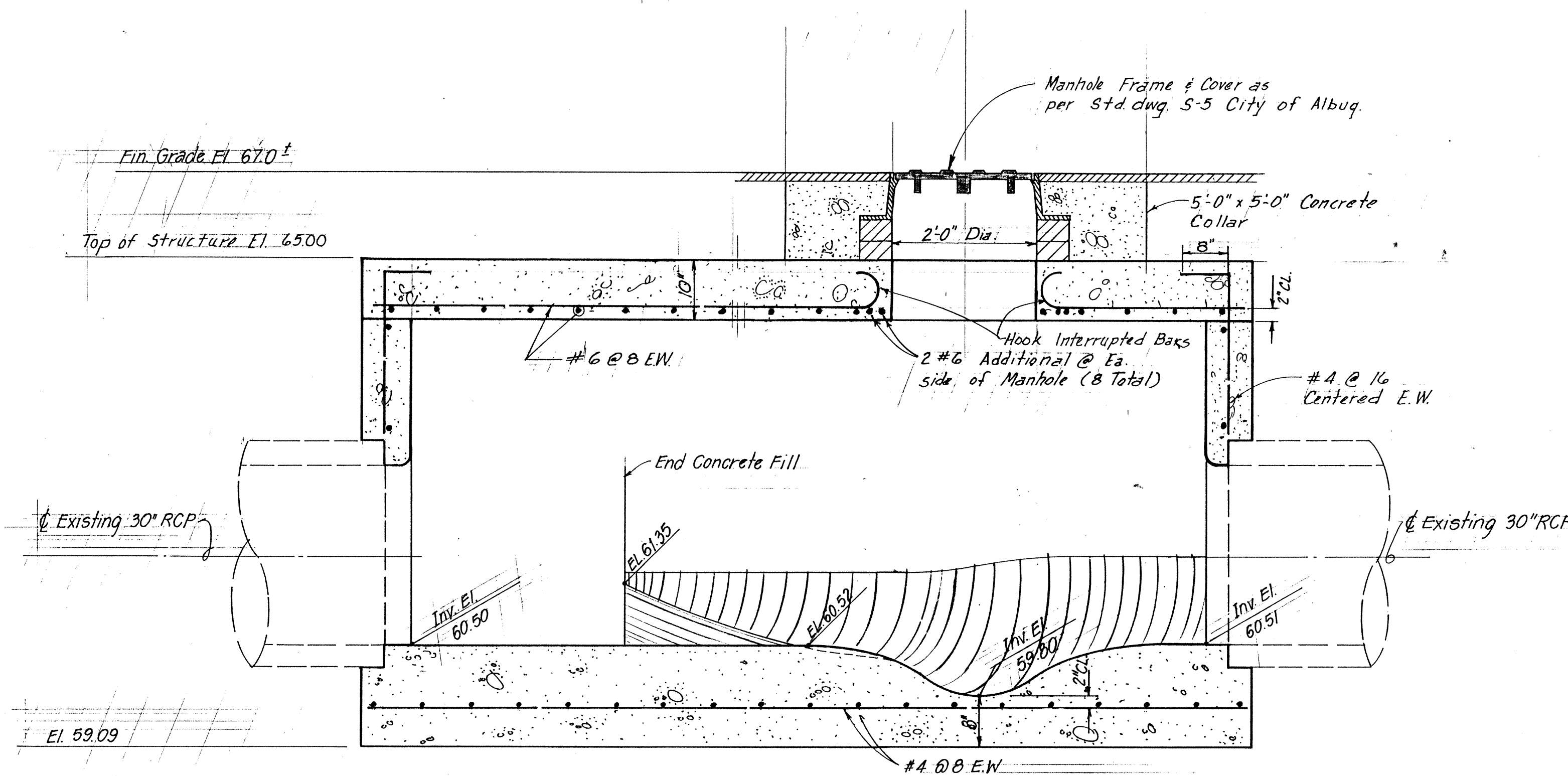
CITY ENGINEER DATE

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: 12th STREET STORM DRAIN JUNCTION STRUCTURE NO. 1					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	3/5/85	Liquid Waste	<i>[Signature]</i>	1/30/85
A.C.E. - Design	<i>[Signature]</i>	2/1/85	Traffic	<i>[Signature]</i>	1/30/85
A.C.E. - Hydrology	<i>[Signature]</i>	1/30/85	Water	<i>[Signature]</i>	1/30/85
M.R.G.C.D.	<i>[Signature]</i>	NA			
PROJECT NO. 2063			SHEET 11 OF 26		

AS BUILT INFORMATION										BENCH MARKS		SURVEY INFORMATION										REFERENCES				REVISIONS				DESIGN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
CONTRACTOR										STAKED BY		DATE		FIELD NOTES										BY		DATE		MAP NO.		EST. NO.		W.O. NO.		NO.		REMARKS		BY		DATE		DESIGNED BY		DRAWN BY		CHECKED BY		DATE		DATE		DATE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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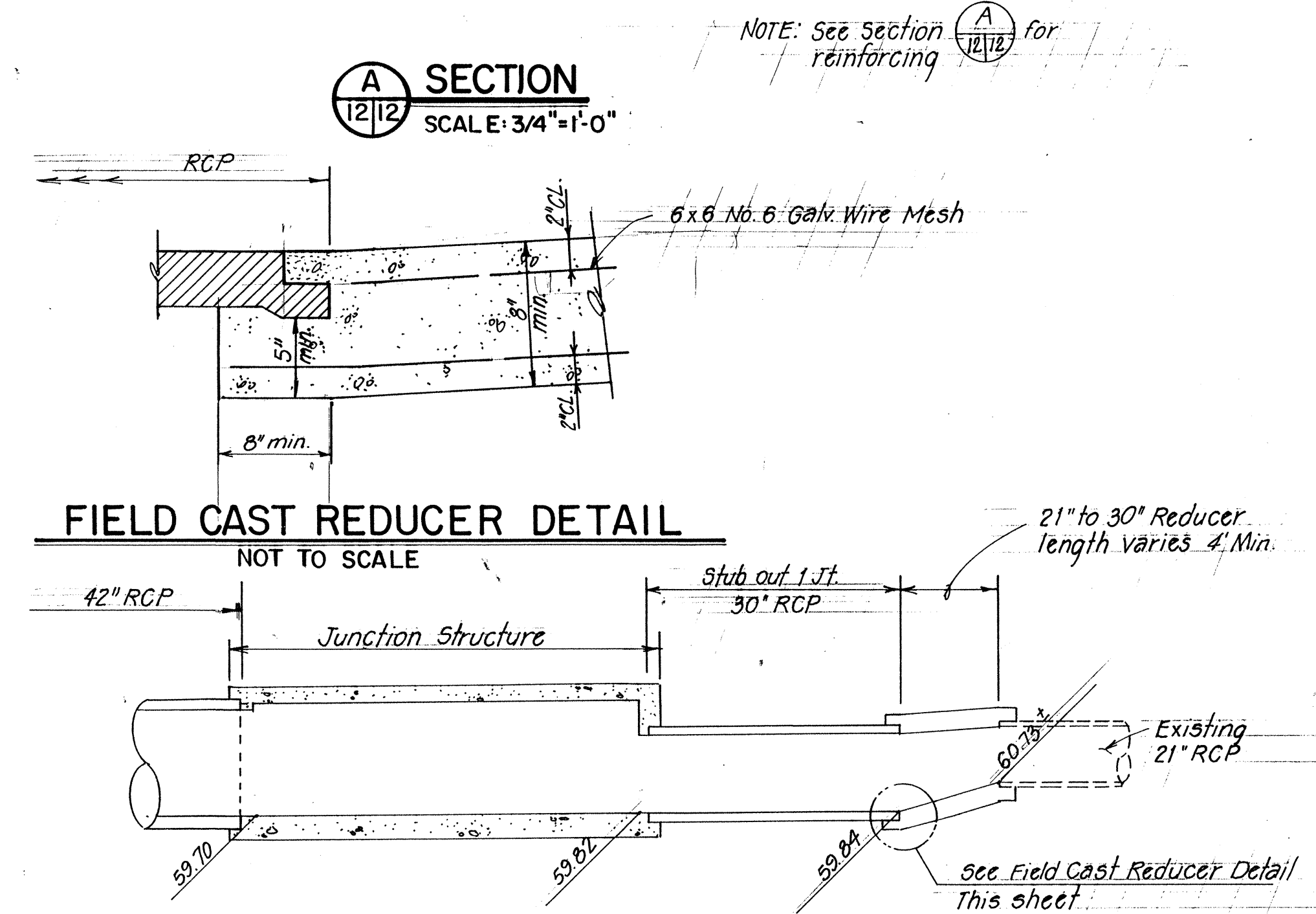
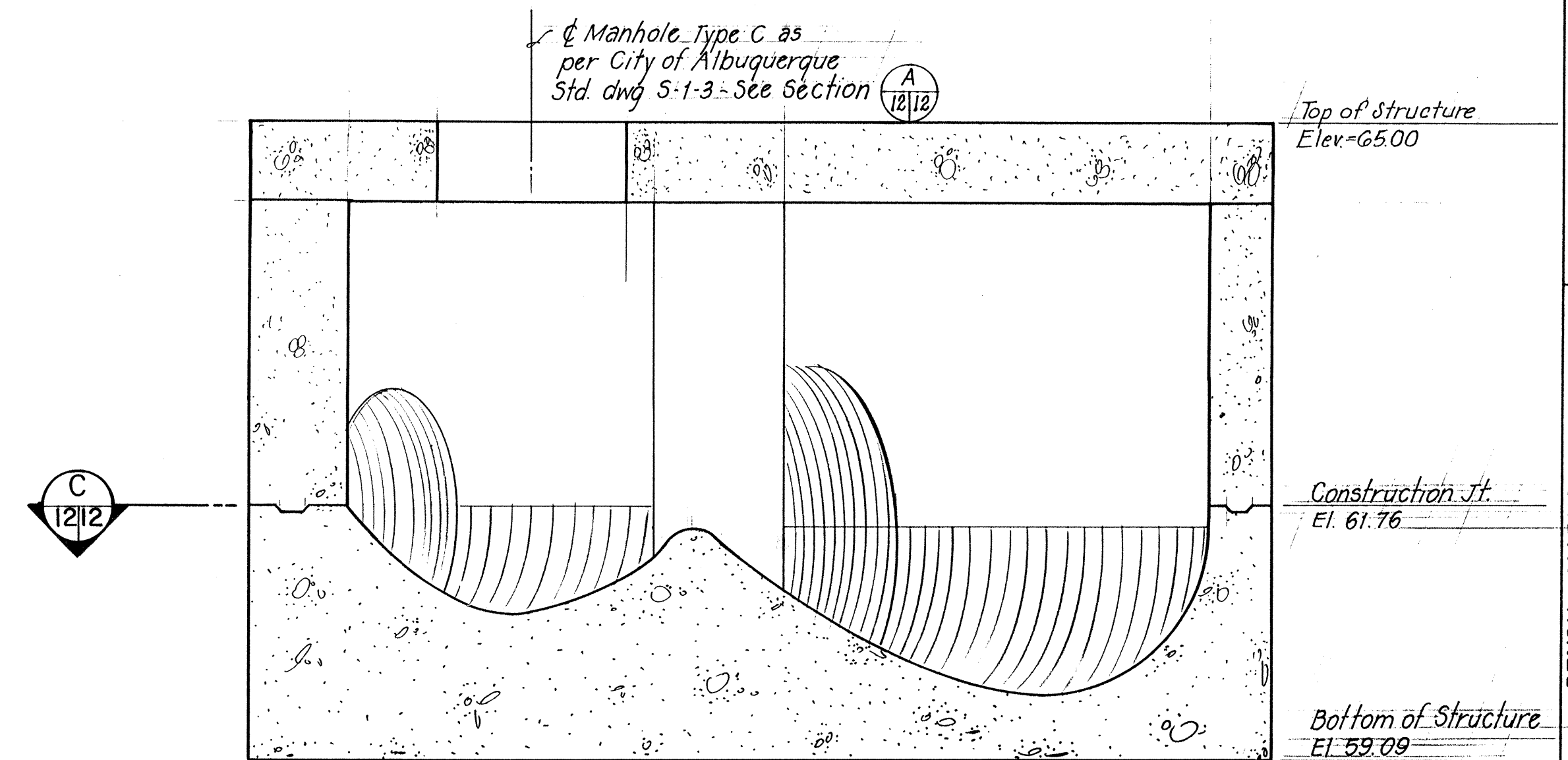


C PLAN - SECTION
SCALE: 3/4" = 1'-0"

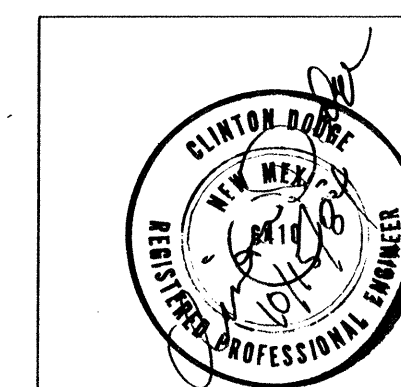
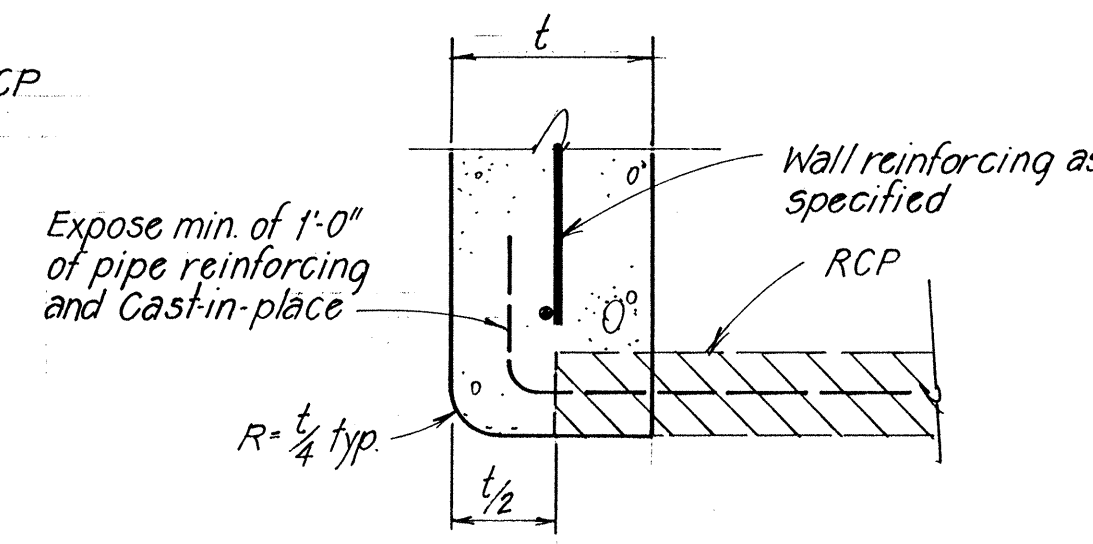


B SECTION
SCALE: 3/4" = 1'-0"

2 TYPICAL PIPE ENTRY DETAIL
NOT TO SCALE



21\"/>

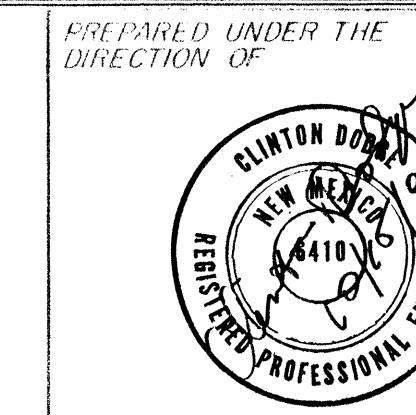
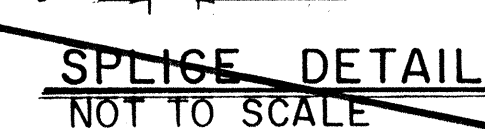
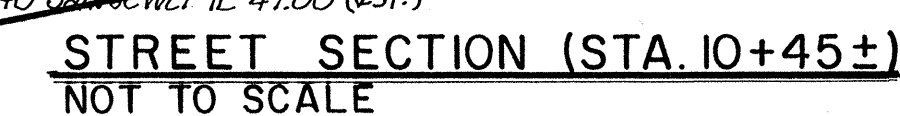
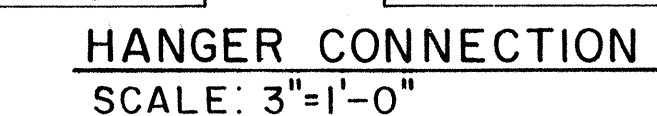
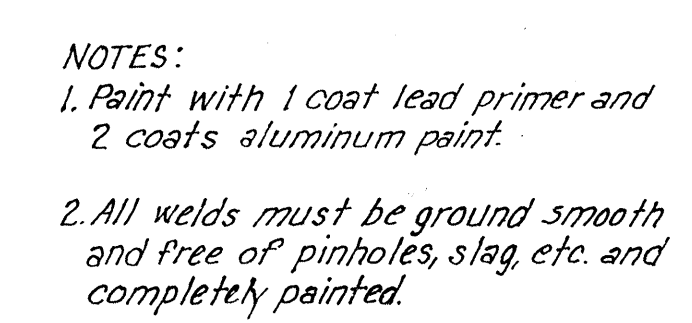
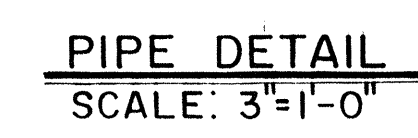


APPROVED FOR
CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: 12th STREET STORM DRAIN JUNCTION STRUCTURE NO. 2					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	C.D. Dore	3/30/85	Liquid Waste	R. Poma	1/30/85
A.C.E. - Design	W. Dore	2/1/85	Traffic	N.A. Dore	1/30/85
A.C.E. - Hydrology	Jim Zuh	1/30/85	Water	R. Poma	1/30/85
MR.G.C.D.	NA				
DESIGNED BY C.D.			DATE March 84		
DRAWN BY O.C.			DATE March 84		
CHECKED BY C.D.			DATE March 84		
PROJECT NO. 2063			SHEET 12 OF 26		

AS BUILT INFORMATION										BENCH MARKS		SURVEY INFORMATION		REFERENCES		REVISIONS							
CONTRACTOR										FIELD NOTES		MAP NO.		EST. NO.		W.O. NO.		NO. DATE		REMARKS		BY	
WORK STAMPED BY										DATE													
DRAWINGS CONSTRUCTED BY										DATE													
MICRO-FILM INFORMATION										RECORDED BY													
										DATE													
										NO.													



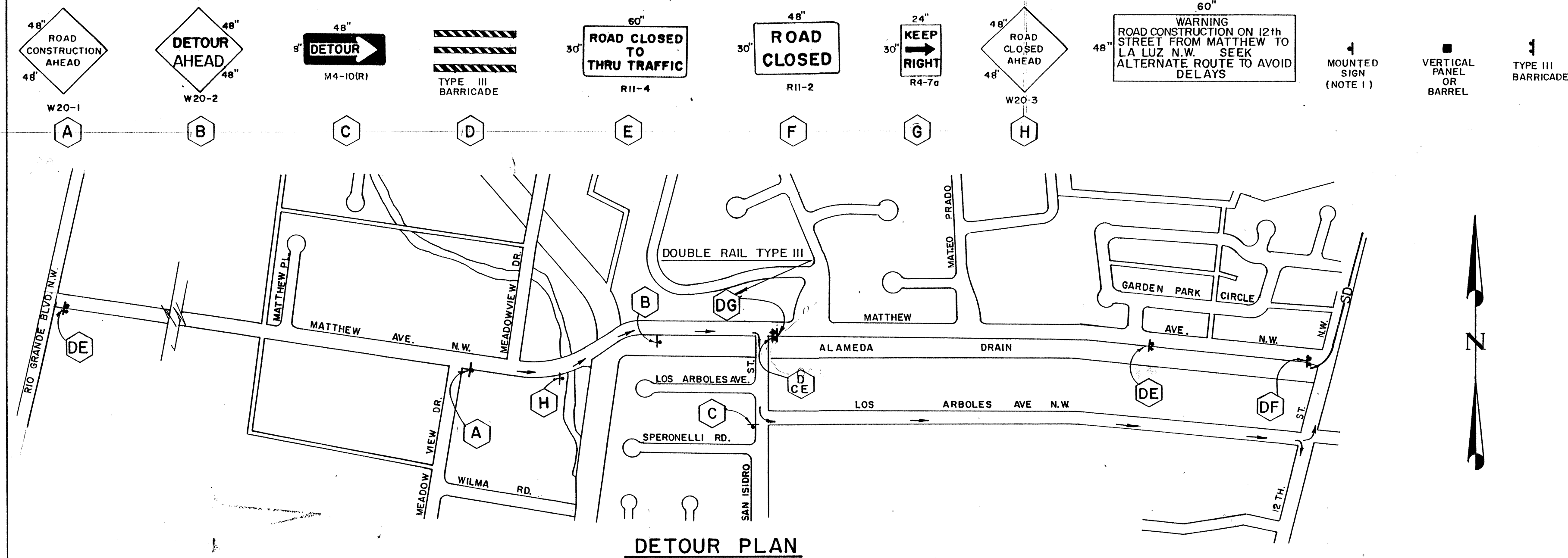
APPROVED FOR
CONSTRUCTION

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: 12th STREET STORM DRAIN
CHANNEL LINING AND
MISCELLANEOUS DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>C.H. Hays</i>	<i>3/5/85</i>	Liquid Waste	<i>R. Perna</i>	<i>1/30/85</i>
A.C.F. Design	<i>W. Perna</i>	<i>2/1/85</i>	Traffic	<i>N.B. Dyer</i>	<i>1/30/85</i>
A.C.F. Hydrology	<i>Jim Zuck</i>	<i>1/30/85</i>	Water	<i>R. Perna</i>	<i>1/30/85</i>
M.R.G.C.D.	<i>N/A</i>				

SHEET 13 OF 26



DETOUR PLAN

GENERAL NOTES

- All traffic control devices shall comply with Chapter VI of the 1978 edition of the "Manual for Uniform Traffic Control Devices", with latest revisions.
- The contractor shall prepare and submit to the project engineer a detailed construction schedule, which is subject to the approval of the City Traffic Engineer, 3 working days prior to commencing construction.
- Unless otherwise provided as part of the construction documents, the contractor shall prepare and submit to the project engineer a detailed traffic control plan, which is subject to the approval of the City Traffic Engineer, 3 working days in advance of any required closures.
- Contractor shall notify the following services 24 hours in advance of any complete closures: Police Department, Fire Department, Ambulance Services, and the Transit Department.
- Permits to barricade or detour traffic must be obtained for each phase of construction through the traffic engineers office at least 24 hours in advance of construction activities.
- All advance locations will be selected in the field and approved by the project engineer.
- All sign locations will be selected in the field and approved by the project engineer.
- All advance warning signs shall be 48" x 48" minimum.
- The contractor shall remove, cover, or turn away from traffic, barricades, temporary signs and/or barrels, as requested by the Traffic Engineer during any lane closure phase in locations where construction is not taking place. Cost incurred shall be incidental to the traffic control.
- All construction signing shall be black on a reflectorized orange field unless otherwise specified. All construction barricades and channelization devices shall be orange on white, reflectorized, unless otherwise specified.
- All signs will be ground mounted on single or double posts with the bottom of the sign 7 feet above sidewalk level or on Type III Barricades. Existing posts may be used at some locations, with the approval of the project engineer. Portable sign stands will be acceptable as an alternate for signs which are in place for less than 1 week.
- All existing regulatory signs that need to be removed, relocated or reinstalled shall be done by the City of Albuquerque Traffic Engineering Division. The contractor shall notify the Traffic Engineering Division 3 working days in advance of any required work.
- Traffic control devices required after dark are to be equipped with warning lights. Type (A) flashing warning lights shall be used on all advance warning signs and on all devices which are intended to warn motorists or pedestrians of hazards or obstructions in or near the travel path. Type (C) steady burn lights shall be used on all devices which are intended to define the travel path. If it becomes necessary to perform construction under this contract between the hours of 7 p.m. and 7 a.m., all City, State and Federal safety regulations relative to environmental regulations and nighttime construction are to be observed and followed.
- All signs, barricades and/or barrels will be reflectorized. All barrels may have sand or water ballast limited to 100 lbs.
- All signs, barricades and/or barrels will be moved forward as the construction progresses (where applicable).
- Contractor shall inspect and maintain all barricades at least once each day except for barricades on or adjacent to arterial and collector streets which shall be checked twice daily, including inspection during hours of darkness.
- Barrels and barricades are not to be intermixed in the same series of channelization.
- Excavations must be plated or patched prior to opening to traffic.
- A minimum width of 11 feet shall be provided for traffic in one direction.
- Equipment and materials are not to be stored within the street right-of-way during non-working hours, or within 15 feet of a traffic lane.
- The contractor shall maintain access to business and residences adjacent to the construction area.
- The contractor shall provide and maintain a safe and adequate means of channelizing pedestrian traffic around all work areas throughout the period of construction. All such channelization shall be arranged to prevent pedestrians from having to enter the roadway in order to pass around the work areas.
- The contractor shall be required to keep the public informed, through the local news media, of construction operations involving street or lane closures, and shall provide the City Traffic Engineer documented proof that this has been done. (See Special Provisions Section 3B)
- The contractor shall complete work in the intersection of 12th and Candelaria Rd. as quickly as possible. In no case shall work take longer than 30 calendar days. The contractor shall work overtime, weekends, night or other extra time as may be required or directed at no additional cost to complete intersection work.

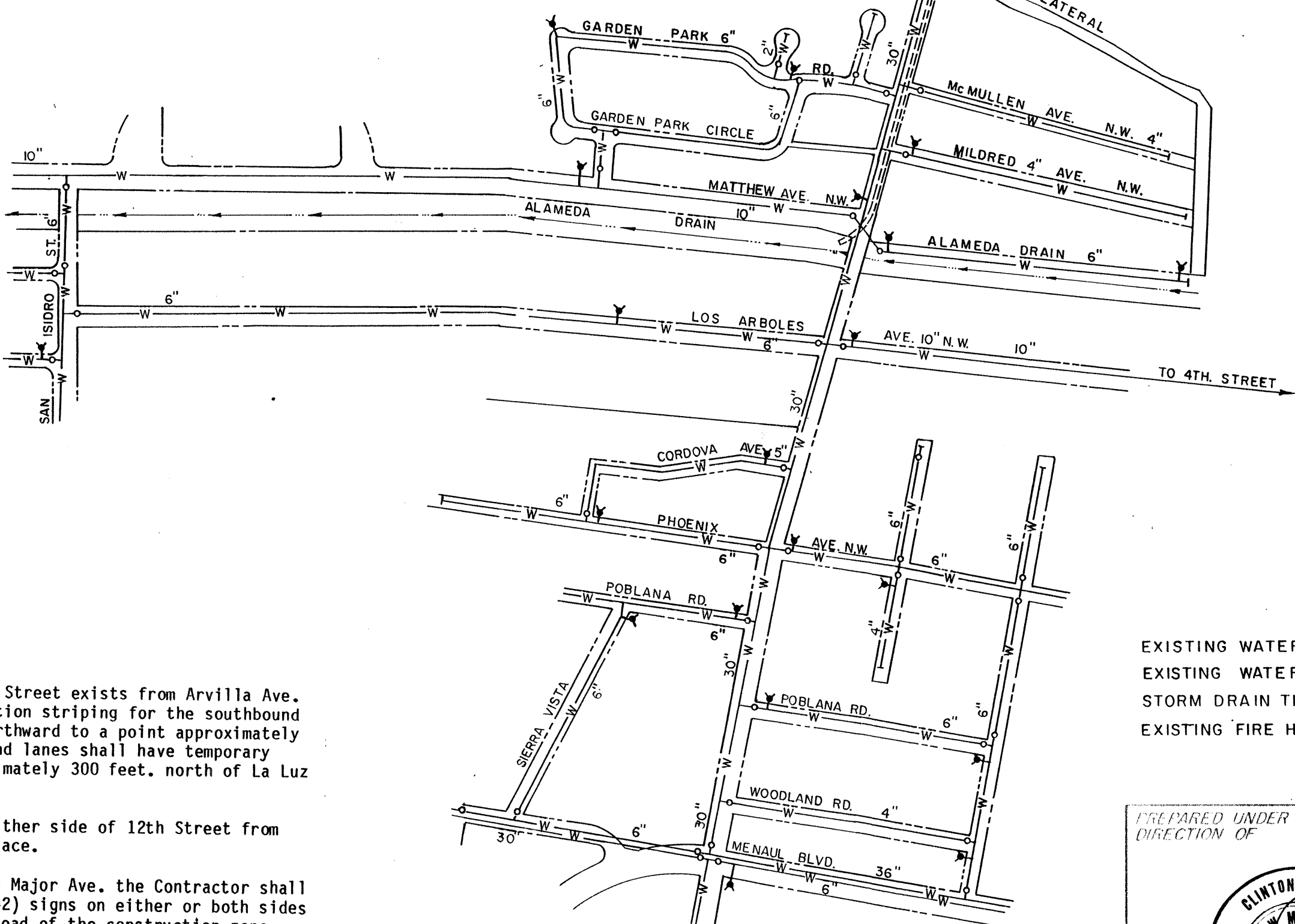
TRAFFIC CONTROL

At present, lane separation striping on 12th Street exists from Arvilla Ave. southward. Therefore, temporary lane separation striping for the southbound lanes must be installed from Arvilla Ave. northward to a point approximately 1,000 ft. north of La Luz Ave. The northbound lanes shall have temporary striping from Arvilla Ave. to a point approximately 300 feet, north of La Luz Ave.

"No Parking Anytime" signs now existing on either side of 12th Street from Candelaria to La Luz Ave. are to remain in place.

As the construction zone moves northward from Major Ave. the Contractor shall erect "No Parking 6:30 a.m. to 5:30 p.m. (R7-2) signs on either or both sides of 12th Street for a distance of 1,000 ft. ahead of the construction zone. This will include changing the "No Parking 4:00 p.m. to 6:00 p.m. signs on the east side of the street from Arvilla Ave. to Aztec Rd.

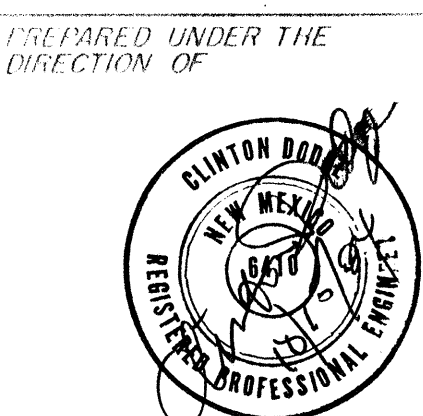
When construction is completed, all signing must be restored to what it was before construction began.



12 TH. STREET STORM DRAIN

LEGEND

- EXISTING WATER LINES. — W —
- EXISTING WATER VALVES. — V —
- STORM DRAIN THIS PROJECT. — S —
- EXISTING FIRE HYDRANTS. — F —



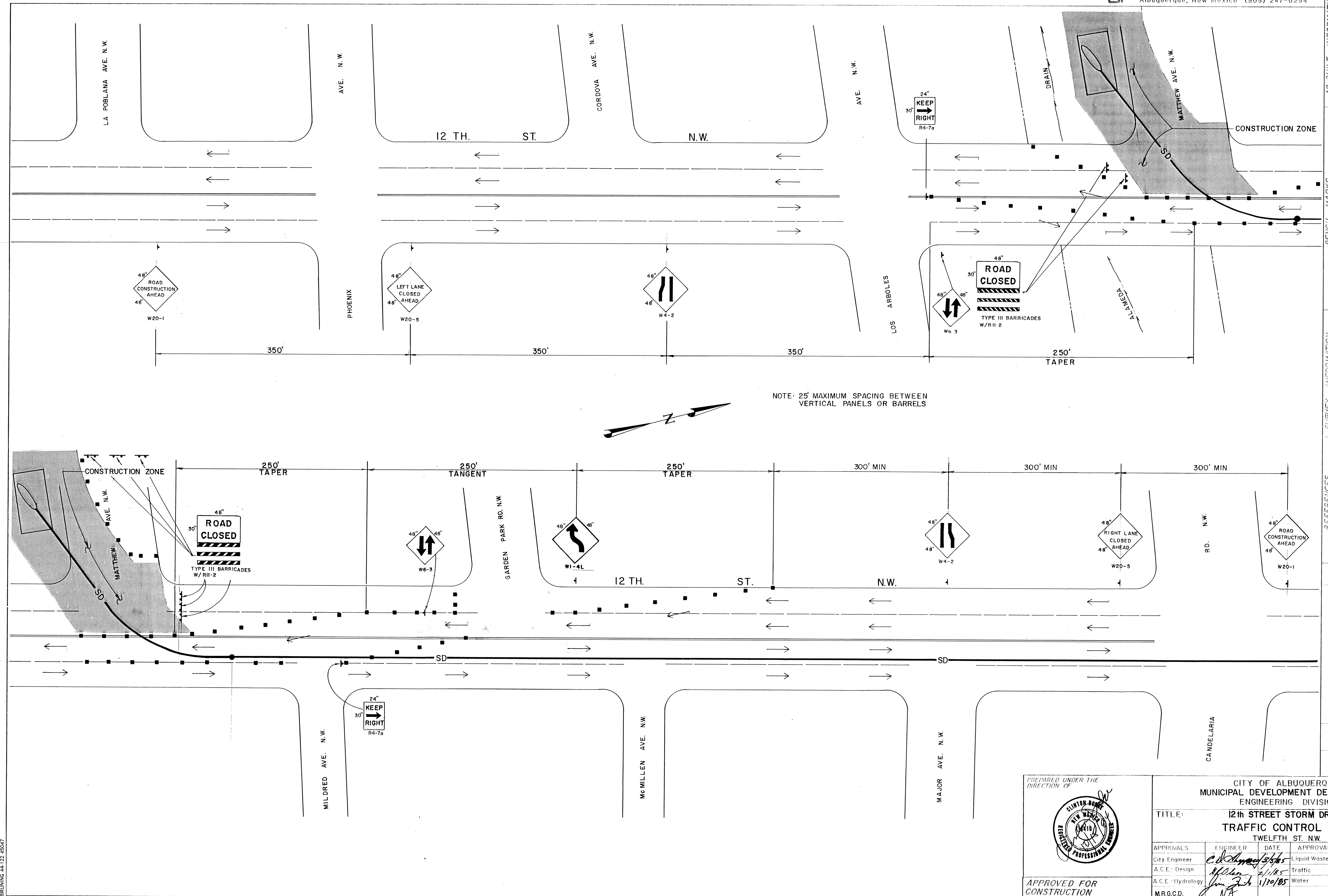
APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

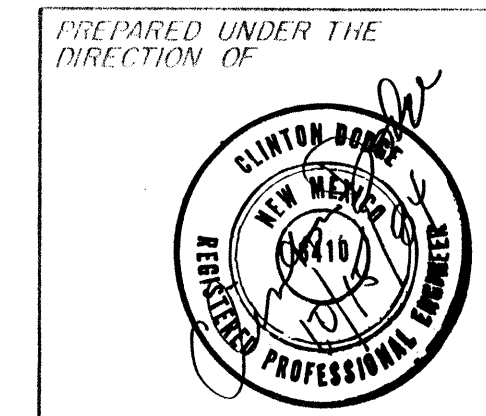
CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION				
TITLE: 12TH STREET STORM DRAIN WATER VALVE LOCATION AND TRAFFIC DETOUR PLAN TWELFTH ST NW.				
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER
City Engineer	C. D. B.	1/30/85	Liquid Waste	R. P. A.
A.C.E. - Design	J. L. B.	2/1/85	Traffic	D. W. H.
A.C.E. - Hydrology	J. L. B.	1/30/85	Water	R. P. A.
MR.G.C.D.	JA	1/30/85		

PROJECT NO. 2063

SHEET 14 OF 26



AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				REFERENCES			
CONTRACTOR				See Sheet 2 for Bench Mark Data				MAP NO. G-14				EST. NO.			
WORK BY	DATE	INSPECTED BY	DATE	NO.	BY	NO.	DATE	NO.	BY	NO.	DATE	NO.	BY	NO.	DATE
APPROVED BY	DATE	APPROVED BY	DATE												
DESIGNED BY	DATE	DESIGNED BY	DATE												
DRAWN BY	DATE	DRAWN BY	DATE												
CHECKED BY	DATE	CHECKED BY	DATE												
RECORDED BY	DATE	RECORDED BY	DATE												
MICRO-FILM INFORMATION															



APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

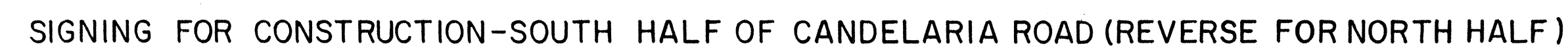
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: 12th STREET STORM DRAIN
TRAFFIC CONTROL PLAN
TWELFTH ST. NW

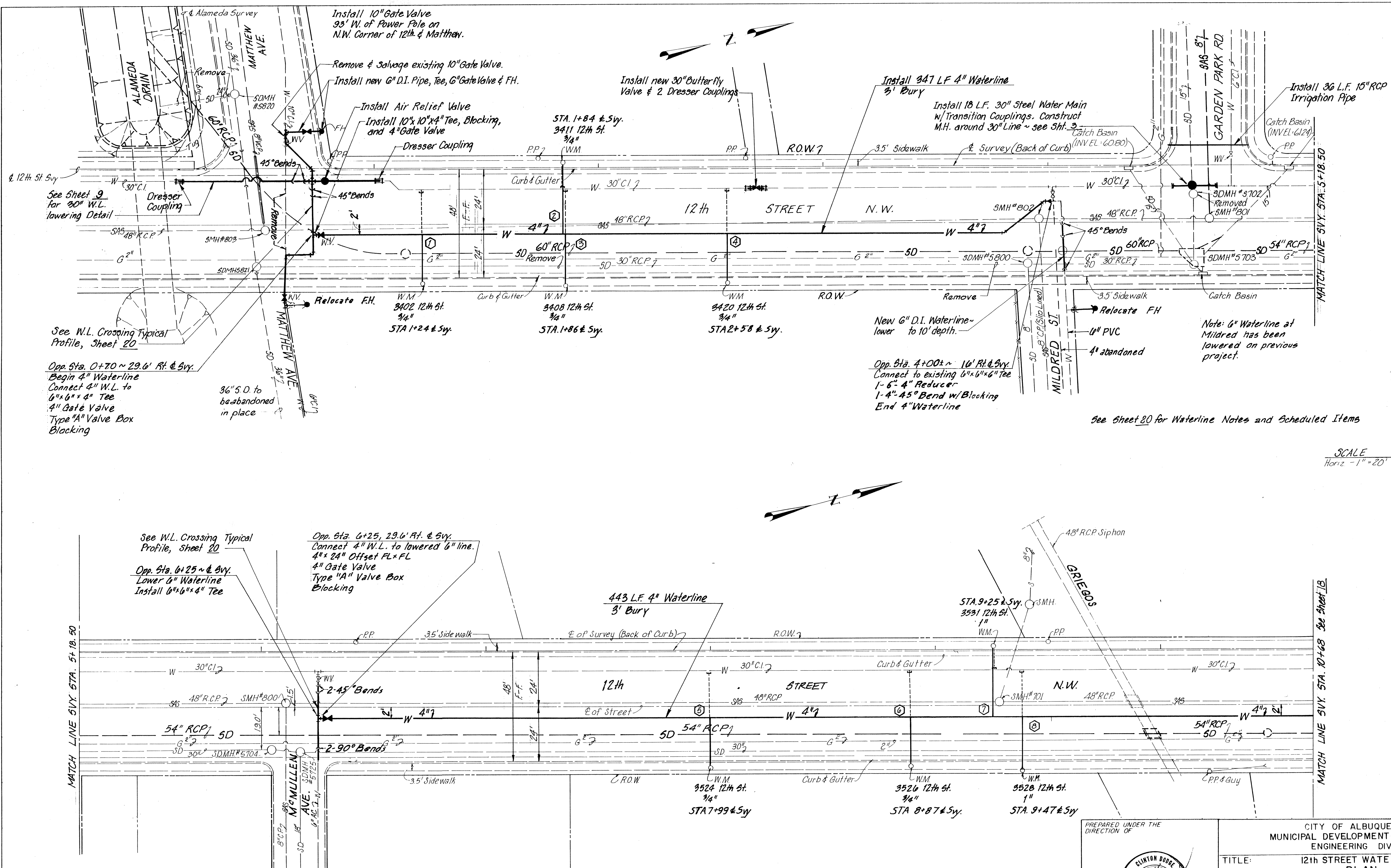
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	C. R. Bunch	1/30/85	Liquid Waste	R. Pina	1/30/85
A.C.E. - Design	M. J. H. H.	1/1/85	Traffic	D. J. H. H.	1/30/85
A.C.E. - Hydrology	J. J. H. H.	1/30/85	Water	R. Pina	1/30/85
M.R.G.C.D.	NA				

PROJECT NO. 2063

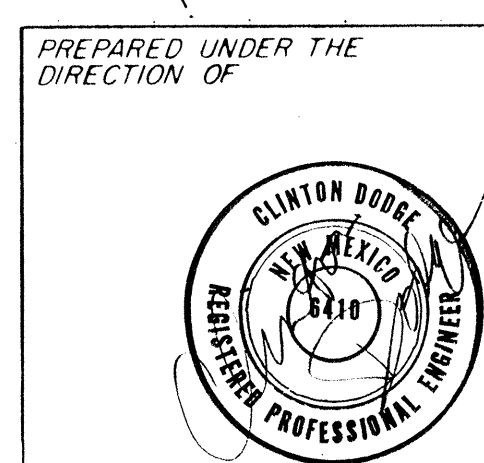
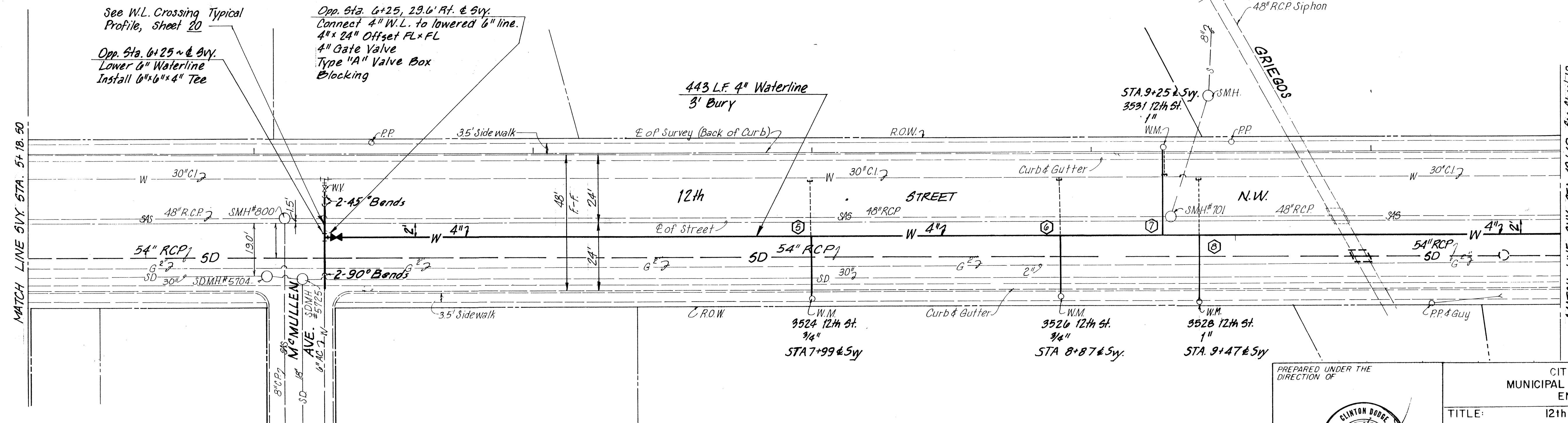
SHEET 15 OF 26



RQUE DEPARTMENT SION DRAIN PLAN N.		
VALS STE	ENGINEER <i>R. Patten</i> <i>Dwight. Haman</i> <i>R. Patten</i>	DATE <i>1/30/85</i> <i>1/30/85</i> <i>1/30/85</i>
SHEET 16 OF 26		



SCALE
Horiz - 1" = 20'



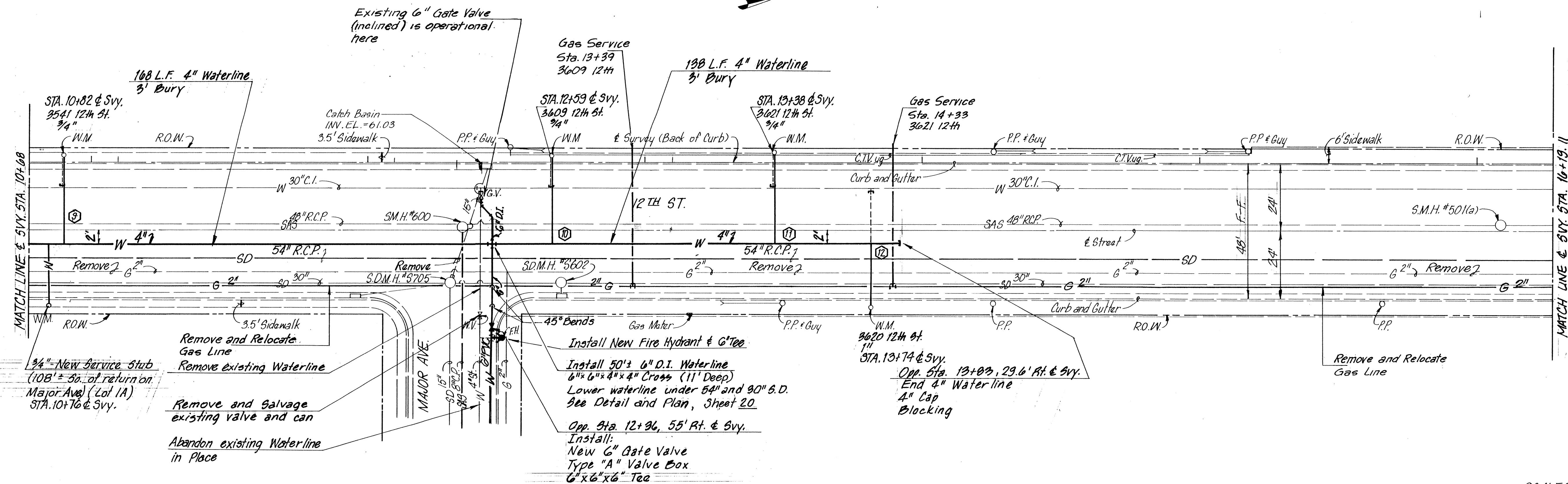
APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION				
TITLE: 12th STREET WATER LINE PLAN				
STA. 0+60 TO STA. 10+68				
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER
City Engineer	C. D. Bode	1/30/85	Liquid Waste	R. Pina
A.C.E. - Design	R. Pina	2/1/85	Traffic	N. Pina
A.C.E. - Hydrology	R. Pina	1/31/85	Water	R. Pina
M.R.G.C.D.	NA			

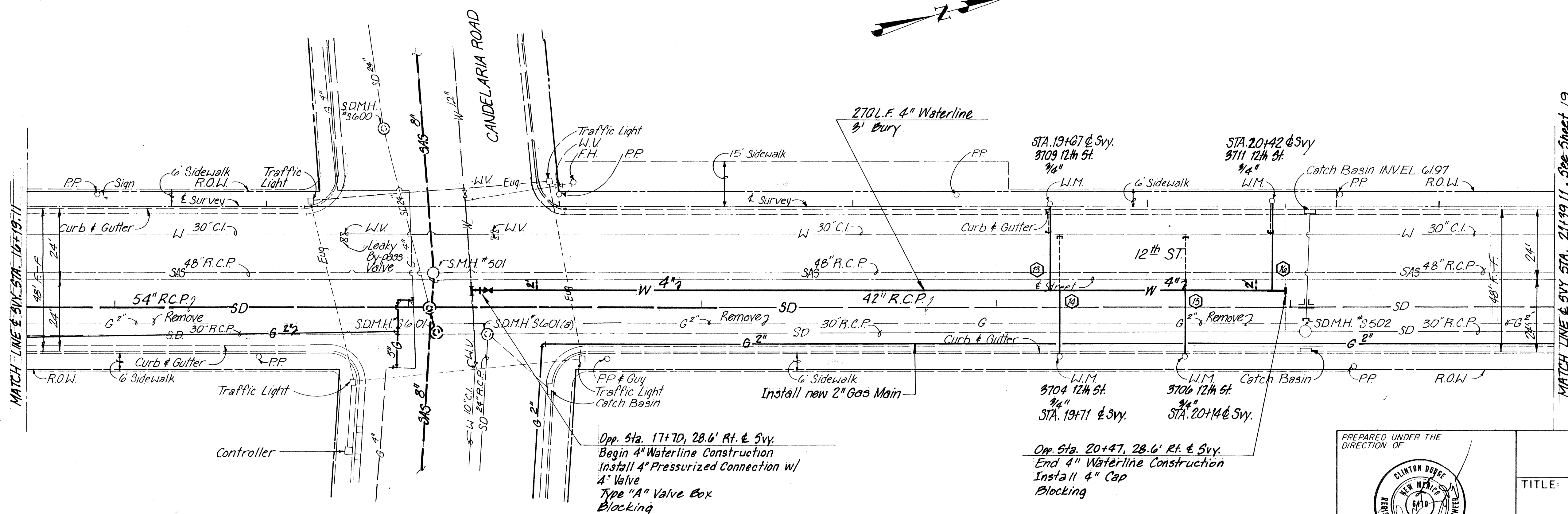
SHEET 17 OF 26

PROJECT NO. 2063

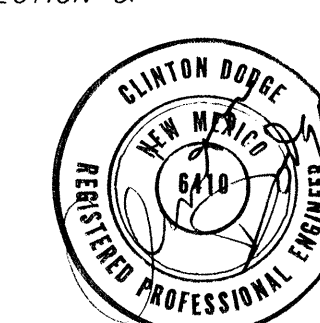


See Sheet 20 for Waterline Notes and Scheduled Items

SCALES
Horiz. $1'' = 20'$



PREPARED UNDER THE
DIRECTION OF



APPROVED FOR
CONSTRUCTION

CITY ENGINEER DATE

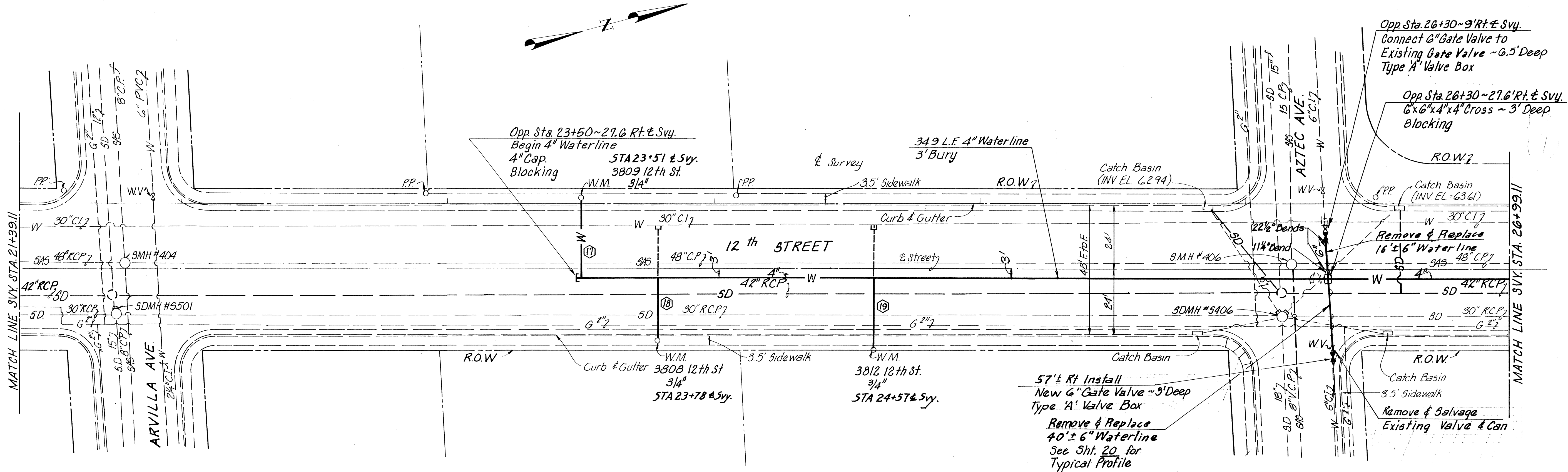
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE:	12th STREET WATER LINE PLAN STA. 10+68 TO STA. 21+39.11
--------	---

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>C. J. Dwyer</i>	<i>3/5/85</i>	Liquid Waste	<i>R. Pina</i>	<i>1/30/85</i>
A C E - Design	<i>A. C. E.</i>	<i>2/1/85</i>	Traffic	<i>NIA DMH</i>	<i>1/2/85</i>
A C E - Hydrology	<i>Jim Z...</i>	<i>1/7/85</i>	Water	<i>R. Pina</i>	<i>1/30/85</i>

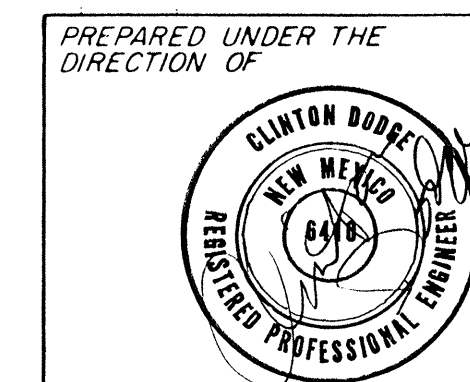
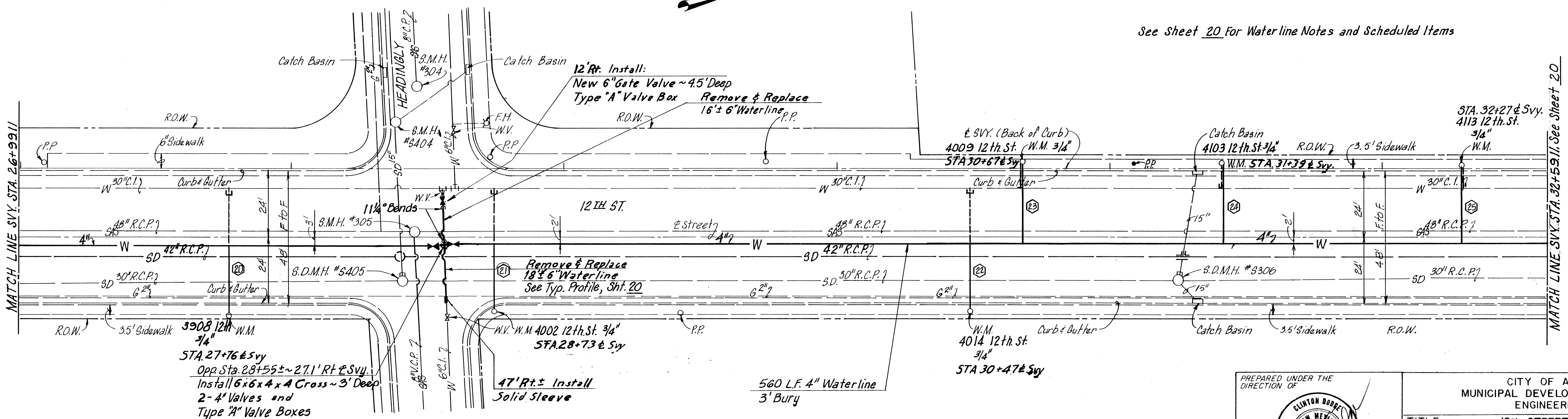
PROJECT NO. 2063

SHEET 18 OF 26



SCALES:
Horiz. 1" = 20'

See Sheet 20 For Waterline Notes and Scheduled Items



APPROVED FOR
CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: 12th STREET WATER LINE
PLAN

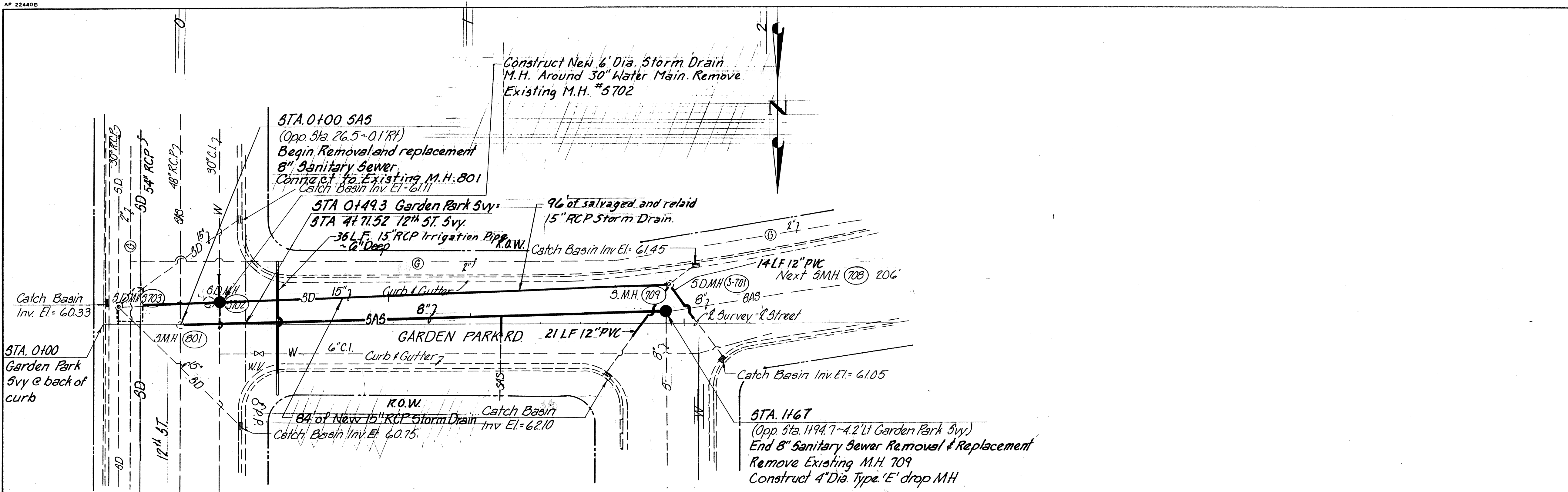
STA. 21+39.11 TO STA. 32+59.11

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	C.D. Herkenhoff	1/30/85	Liquid Waste	R. Pina	1/30/85
A.C.E. - Design	J. Pina	2/1/85	Traffic	N.A. DWH	1/30/85
A.C.E. - Hydrology	J. Pina	1/30/85	Water	R. Pina	1/30/85
M.R.G.C.D.	NA				

PROJECT NO. 2063

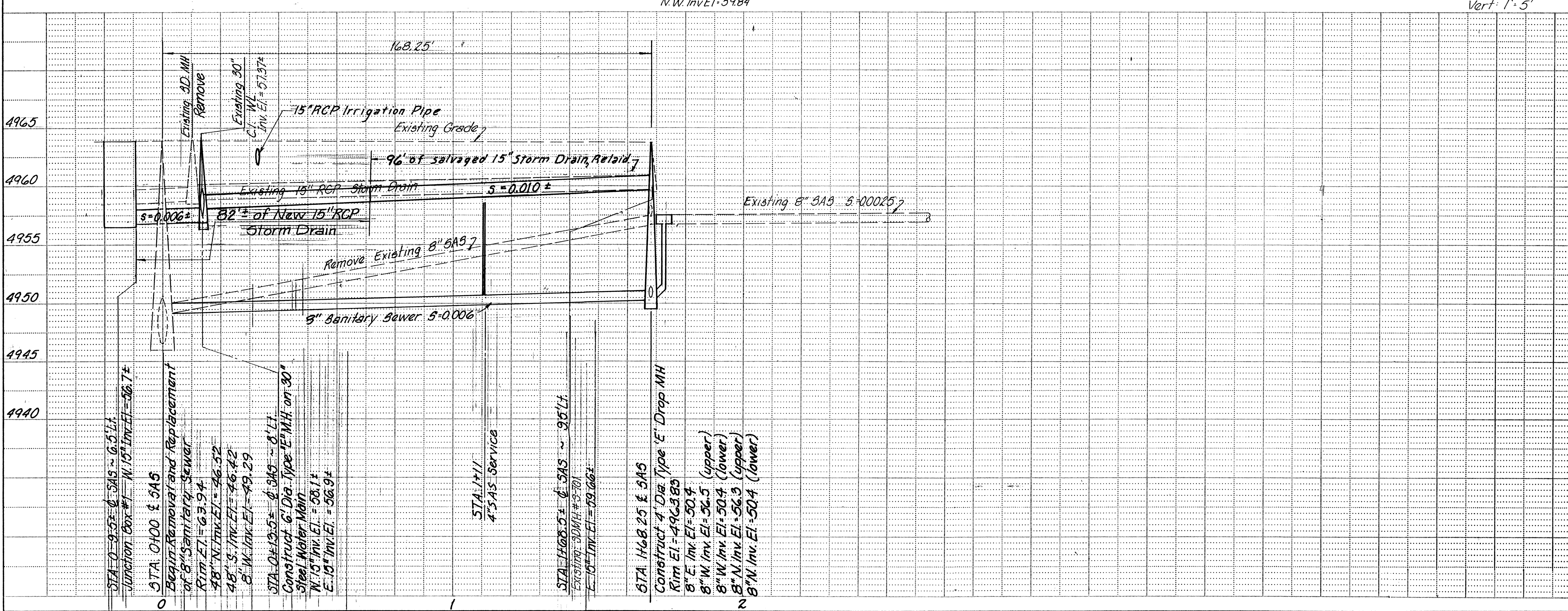
SHEET 19 OF 26

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		REFERENCES		REVISIONS		DESIGN	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	MAP NO. G-14-Z	EST. NO.	NO.	DATE	DESIGNED BY	DATE
WORK BY	DATE	NO.	DATE	NO.	DATE	10-1118 Located at the junction of 9th				C.D.	1/30/85
FIELD BY	DATE	NO.	DATE	NO.	DATE	Parasquale Ave. and Old Town Rd. in the SE				J.L.B.	1/30/85
ACCEPTANCE BY	DATE	NO.	DATE	NO.	DATE	quadrant of the intersection. A 60' x 60' x 115					
DRAWINGS BY	DATE	NO.	DATE	NO.	DATE	electric powerline pole #215 ELEV. 4951.75					
CHECKED BY	DATE	NO.	DATE	NO.	DATE	9-K13 Located at the intersection of 12th St. and					
RECORDED BY	DATE	NO.	DATE	NO.	DATE	Stover Ave. in the SW quadrant of the inter-					
	DATE	NO.	DATE	NO.	DATE	section. A square, 12' x 12' chiseled on top of con-					
	DATE	NO.	DATE	NO.	DATE	crete curb at the WSW curb return.					
	DATE	NO.	DATE	NO.	DATE	ELEV. 4945.006					



3D.M.H. #3703 Svy Sta 0+05.5 Rim El. = 4963.34 30" N. Inv El. = 5746 30" S. Inv El. = 5749 15" E. Inv El. = 6004 15" W. Inv El. = 5859 15" SW Inv El. 5934	3D.M.H. #5702 Svy Sta 0+37.5 Rim El. = 4963.77 15" E. Inv El. = 5902 15" W. Inv El. = 5997	3M.H. #801 Svy Sta 0+26.5 Rim El. = 4963.94 48" N. Inv El. = 46.52 48" S. Inv El. = 46.42 8" W. Inv El. 49.29	3M.H. #709 Svy Sta 1+94.7 Rim El. = 4963.87 N. Inv El. = 56.94 E. Inv El. = 56.75 W. Inv El. = 56.77	3D.M.H. #3 Svy Sta 1+95 Rim El. = 4963.56 E. Inv El. = 5966 W. Inv El. = 5968 NE Inv El. = 6065 NW Inv El. = 5989	3M.H. #708 Svy Sta 4+00.7 Rim El. = 4964.08 W. Inv El. = 5723 E. Inv El. = 5728 S. Inv El. = 5733
---	--	--	---	---	--

SCALES:
Horiz. 1" = 20'
Vert. 1" = 5'



GENERAL NOTES - SANITARY SEWER REPLACEMENT

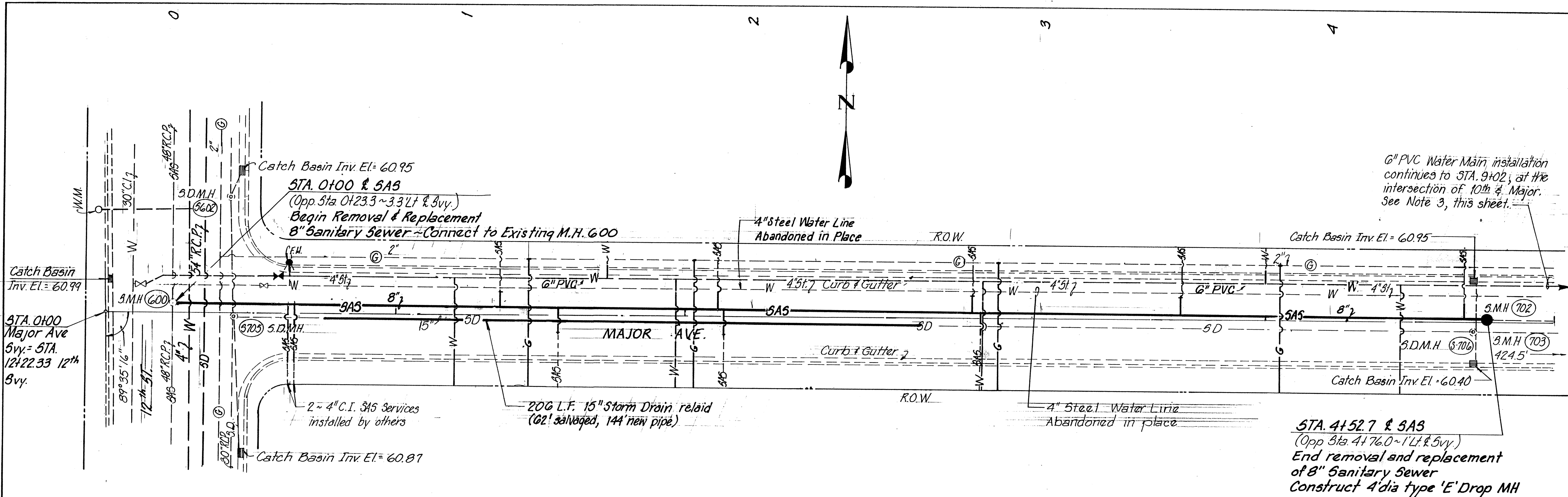
- REPLACEMENT SANITARY SEWER PIPE SHALL BE VCP, PVC OR DUCTILE IRON IN ACCORDANCE WITH THE SPECIFICATIONS.
- NECESSARY PUMPING OF SEWAGE BETWEEN MANHOLES SHALL BE PAID AS SPECIFIED IN THE SPECIFICATIONS.

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE	CONTRACTOR	NO.	DATE
			10-113. Located at the junction of San Pasqual Ave. and Old Town Rd. in the SE quadrant of the intersection. A 60 Penny nail in electric powerline pole #215. Elev. = 4957.75		
			3-113. Located at the intersection of 12th St and 3rd Ave. in the SW quadrant of the intersection. A square, 21, checked on top of concrete curb at the WSW curb return. Elev. = 4945.006		
REVISIONS		DESIGN		MICRO-FILM INFORMATION	
NO.	DATE	REMARKS	BY	NO.	DATE
DESIGNED BY	1/10/85	DATE 1/10/85		RECORDED BY	
DRAWN BY	1/10/85	DATE 1/10/85		NO.	
CHECKED BY	1/10/85	DATE 1/10/85			

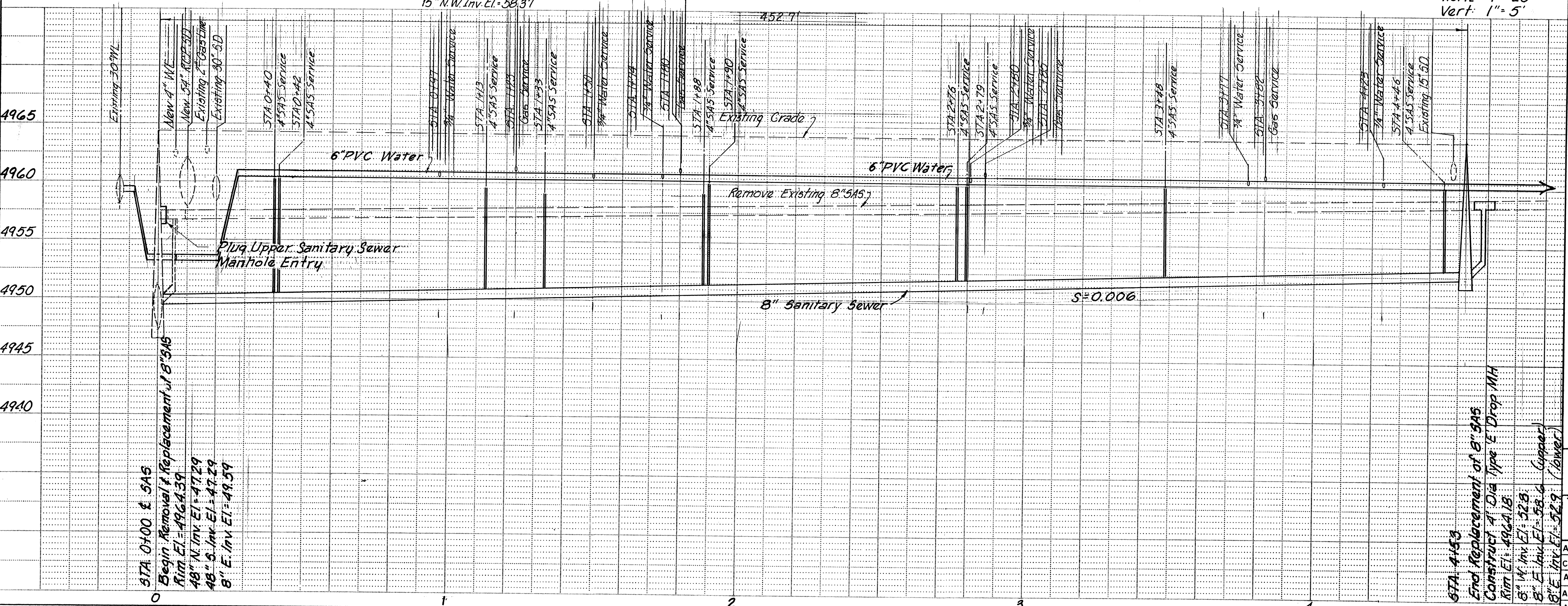
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: SANITARY SEWER REPLACEMENT GARDEN PARK RD.
PLAN and PROFILE

STA. 0+00.00 TO STA. 1+68.25			
APPROVALS	ENGINEER	DATE	APPROVALS
City Engineer	R. Pina	1/10/85	Liquid Waste
A.C.E. - Design	H. Pina	1/10/85	Traffic
A.C.E. - Hydrology	H. Pina	1/10/85	Water
M.R.G.C.D.	NA		



S.M.H. #600 Svy Sta. 0+23.3 Rim El. = 4964.39 48" N. Inv. El. = 47.29 48" S. Inv. El. = 47.29 8" E. Inv. El. = 49.59 (Active) 8" E. Inv. El. = 56.67 (Dry)	S.D.M.H. #5602 Svy Sta. 0+143.4 Rim El. = 4963.94 30" N. Inv. El. = 58.42 30" S. Inv. El. = 58.42 15" E. Inv. El. = 60.74	S.D.M.H. #5705 Svy Sta. 0+144.4 Rim El. = 4963.97 30" N. Inv. El. = 57.64 30" S. Inv. El. = 57.74 15" E. Inv. El. = 57.87 15" S. Inv. El. = 58.97 15" N.W. Inv. El. = 58.37	S.D.M.H. #5 Svy Sta. 4+171.8 Rim El. = 4964.14 N. Inv. El. = 60.39 S. Inv. El. = 60.39 E. Inv. El. = 59.14 W. Inv. El. = 59.09	S.M.H. #702 Svy Sta. 4+176.0 Rim El. = 4964.18 E. Inv. El. = 58.53 W. Inv. El. = 58.53	S.M.H. #703 Svy Sta. 4+200.5 Rim El. = 4964.74 8" N. Inv. El. = 59.63 8" W. Inv. El. = 59.52
---	---	---	---	---	---



- NOTES:**
- All new SAS services (except those installed at STA 0+40 and 0+42 by others) use PVC risers.
 - All existing SAS services are A.C. pipe. The limit of new PVC pipe is shown thus: ————
 - Other water services installed on Major Ave:

Address	STA.	Size
1020	5+20	3/4" Cu
1009	5+30	"
1024	5+41	"
1022	6+08	"
1007	6+30	"
1020	6+47	"
1014	7+03	"
1017	7+23	"
1005	7+43	"
1004	8+30	1" Cu
1001	8+47	1" Cu

SCALES:
 Horiz. 1" = 20'
 Vert. 1" = 5'

ENGINEER'S SEAL		REVISIONS		DESIGN	
NO.	DATE	BY	DATE	DATE	DATE
				Jan 1985	Jan 1985
				Jan 1985	Jan 1985
				Jan 1985	Jan 1985

DESIGNED BY CD
 DRAWN BY JLB
 CHECKED BY CD

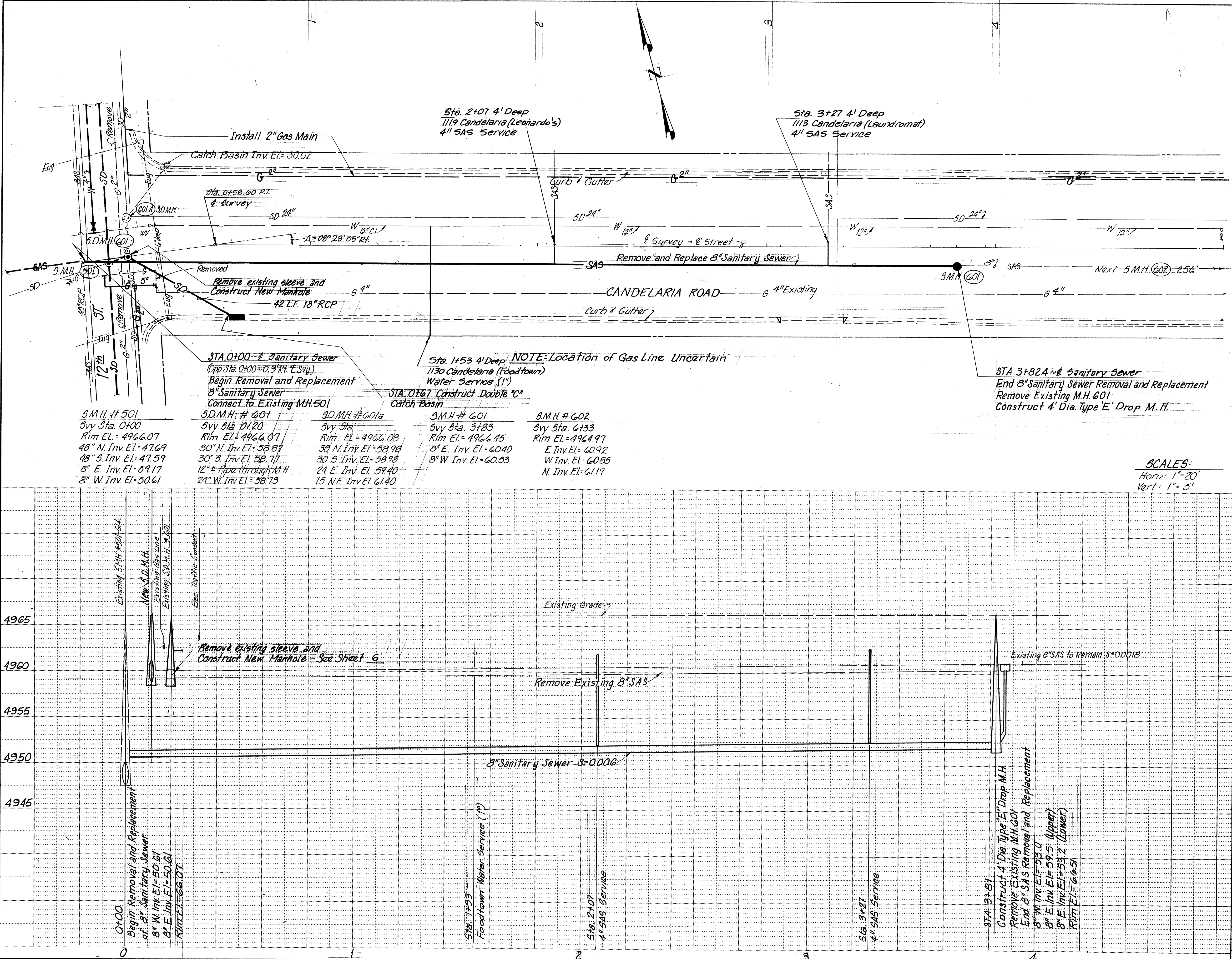
CITY OF ALBUQUERQUE
 MUNICIPAL DEVELOPMENT DEPARTMENT
 ENGINEERING DIVISION

TITLE: SANITARY SEWER REPLACEMENT-MAJOR AVE
PLAN and PROFILE
 STA. 0+00.00 TO STA. 4+52.7

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	R. Pena	1/30/85	Liquid Waste	R. Pena	1/30/85
A.C.E.-Design	NA	2/1/85	Traffic	NA	1/24/85
A.C.E.-Hydrology	NA	1/30/85	Water	R. Pena	1/24/85
M.R.G.C.D.	NA				

PROJECT NO. 2063 MAP NO. **G-14** SHEET **22** OF **26**

ENGINEER'S SEAL			SURVEY INFORMATION			BENCH MARKS			AS BUILT INFORMATION		
			FIELD NOTES			10-113: Located at the junction of San Pasquale Ave. and Old Town Rd. in the S.E. quadrant of the intersection. A 60-henny rail in electric power line pole # 215. Elevation = 495.7.175. 3'-X-13' Located at the intersection of 12th St. & Glover Ave. in the S.W. quadrant of the intersection. A square, 17' shield on top of concrete curb at the W-3-W curb return. Elevation = 494.5.206			CONTRACTOR STAMPED BY INSPECTOR'S FIELD LANCE BY VERIFICATION BY CORRECTED BY MICRO-FILM RECORDED BY NO.		
			NO.	BY	DATE						
NO. DATE REMARKS BY											
DESIGN											
DESIGNED BY			DATE Jan. 1985								
DRAWN BY			DATE Jan. 1985								
CHECKED BY			DATE Jan. 1985								
SHEET 23 OF 26											



NOTE:

Existing SAS in Candalaria has been partially replaced with PVC Liner. All liner encountered is to be removed and salvaged and delivered to City Yard in accordance with specifications.

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
	NO.	DATE	BY	FIELD NOTES	DATE	CONTRACTOR	DATE
	NO.	DATE	BY	FIELD NOTES	DATE	CONTRACTOR	DATE

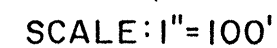
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: SANITARY SEWER REPLACEMENT CANDELARIA RD. (EAST)
PLAN AND PROFILE

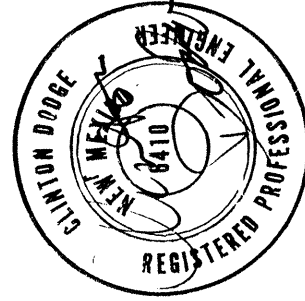
STA. 0+00 TO STA. 3+82.40

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	E. D. Chappell	3/5/85	Liquid Waste	R. Rivera	1/30/85
A.C.E. - Design	M. Olson	2/1/85	Traffic	N.A. Dunn	1/30/85
A.C.E. - Hydrology	Jim Smith	1/10/85	Water	R. Rivera	1/30/85
M.R.G.C.D.	NA				

PROJECT NO. 2063 MAP NO. G-14 SHEET 24 OF 26



1. TYPE II BARRICADES AND BARRELS TO BE SPACED AT 35' MAX, 20' WITHIN 100' OF THE INTERSECTION AND 10' MAX ADJACENT TO EXCAVATIONS.
2. VERTICAL PANELS TO BE SPACED AT 20' MAX

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION						ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
TITLE: TRAFFIC CONTROL PLAN UTILITY REPLACEMENT - CANDELARIA RD. WEST OF 12th ST.								NO. BY DATE		10-113: Located at the junction of San Pasquale Ave and Old Town Rd. in the S.E. quadrant of the intersection. A 60" Penny rail in electric power line pole # 215. Elevation 4957.175. 3-K13: Located at the intersection of 12th St & Stover Ave. in the S.W. quadrant of the intersection. A square, 21" chiseled on top of concrete curb at the N.W. curb return. Elevation 4945.006		CONTRACTOR	
												WORK STARTED BY	
												DATE	
												ACCEPTANCE BY	
												DATE	
DESIGNED BY Kevin Broderick DRAWN BY L.A.B. + J.L.B. CHECKED BY C.D.						NO. DATE		REMARKS		FIELD			
										VERIFICATION BY			
										DATE			
										CORRECTED BY			
										DATE			
APPROVALS						ENGINEER		DATE		MICRO-FILM INFORMATION			
City Engineer	A.C.E. - Design		A.C.E. - Hydrology		M.R.G.C.D.		R. Peña		1/30/85		RECORDED BY		
1/30/85		2/1/85		1/30/85		1/30/85		NO.		DATE			
PROJECT NO. 2063						MAP NO. G-14		SHEET 25		OF 26			

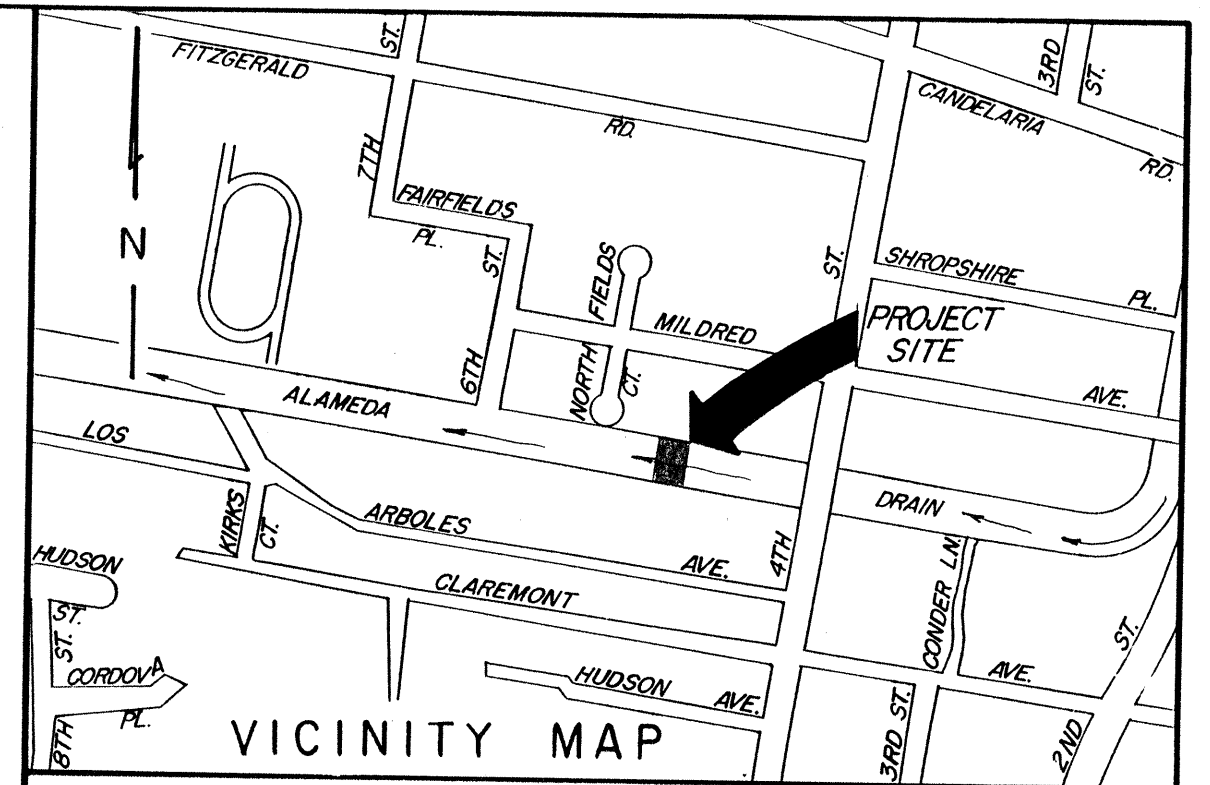
1439

STORM DRAIN EXTENSION

FOURTH STREET NW AND ALAMEDA DRAIN

INDEX

- SHEET 1 - TITLE SHEET
- SHEET 2 - PLAN AND PROFILE
- SHEET 3 - CONSTRUCTION DETAILS

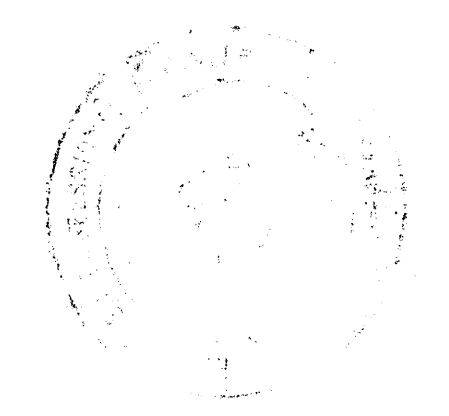


NOTICE TO CONTRACTORS

- 1) New Mexico Standard Specifications for Public Works Construction - 1979 Edition will be referred to hereon as the "Standard Specifications."
- 2) All work detailed on these plans to be performed under contract shall, except as otherwise stated or provided for hereon, be constructed in accordance with Specifications and Contract Documents for Construction of 12th Street Storm Drain.
- 3) Two working days prior to any excavation, contractor must contact Line Locating Service, 765-1234, for location of existing utilities.
- 4) 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 survey so that the conflict can be resolved with minimum of delay.

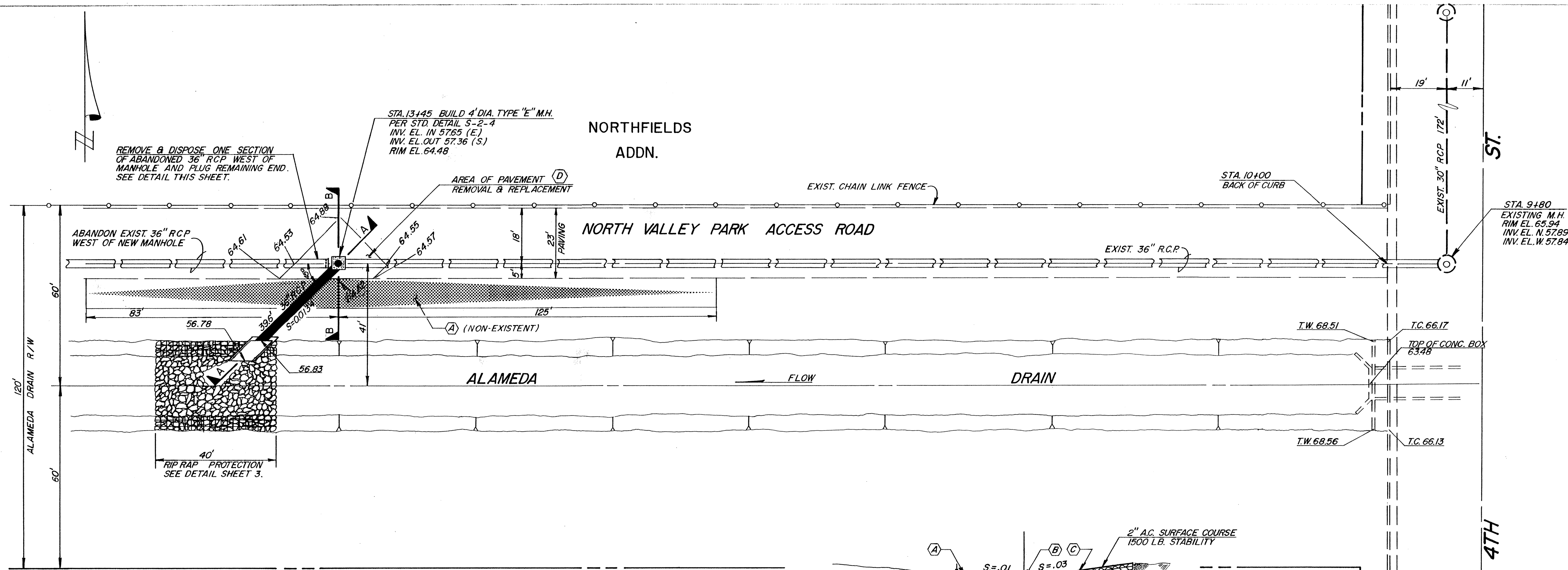
THE FOLLOWING NOTES APPLY WHEN CHECKED:

- ☐ All utilities and utility service lines shall be installed prior to paving.
- ☒ Backfill compaction shall be according to specified street use. (residential)
- ☐ Tack coat requirements shall be determined by the City Engineer.
- ☐ 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, the driveway shall be constructed prior to acceptance of the curb and gutter.
- ☒ All storm drain facilities shall be completed prior to final acceptance.

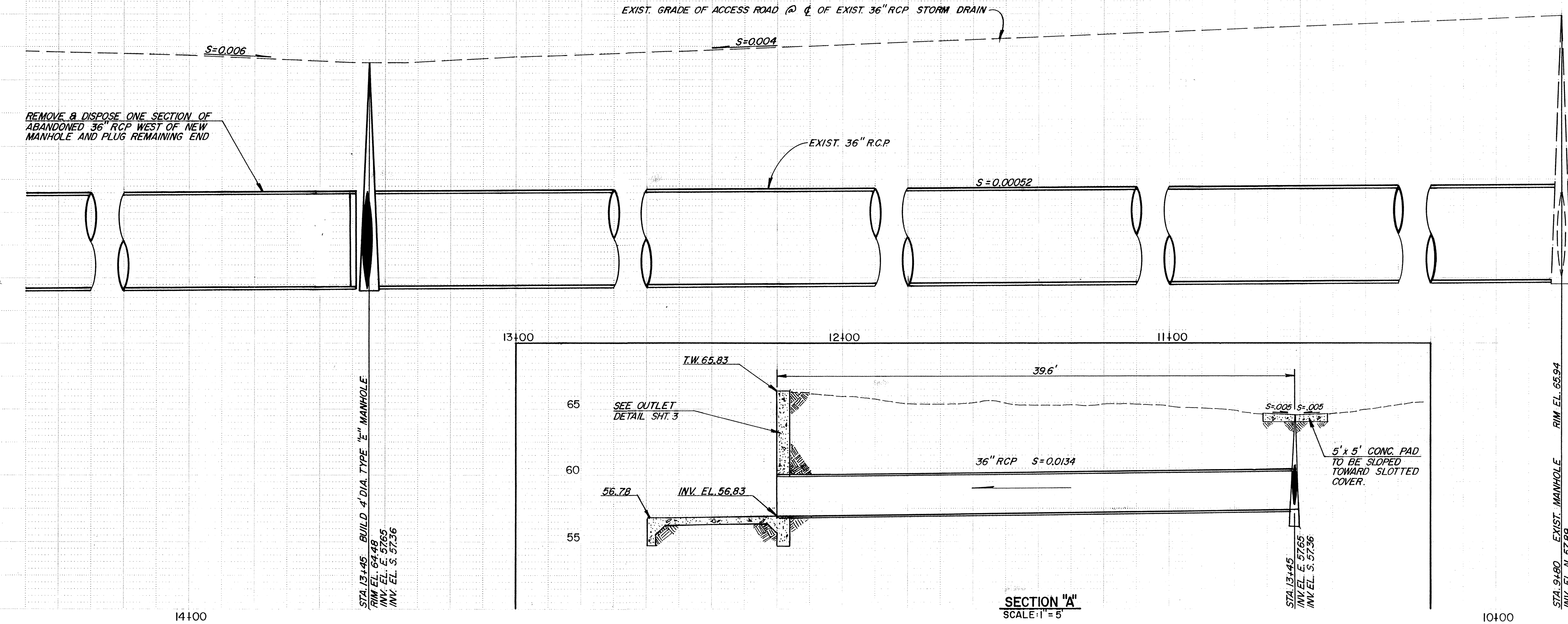


REV	243	C.D. Shepard	12/15/84	HYDRO - Iron Pipe	12/15/84				
APPROVAL OF REVISIONS									
				CITY OF ALBUQUERQUE			APPROVED FOR CONSTRUCTION		
				PROJECT NO. 1439			C.D. Shepard 3/5/85 C.E.		
							SHEET 1 OF 3		

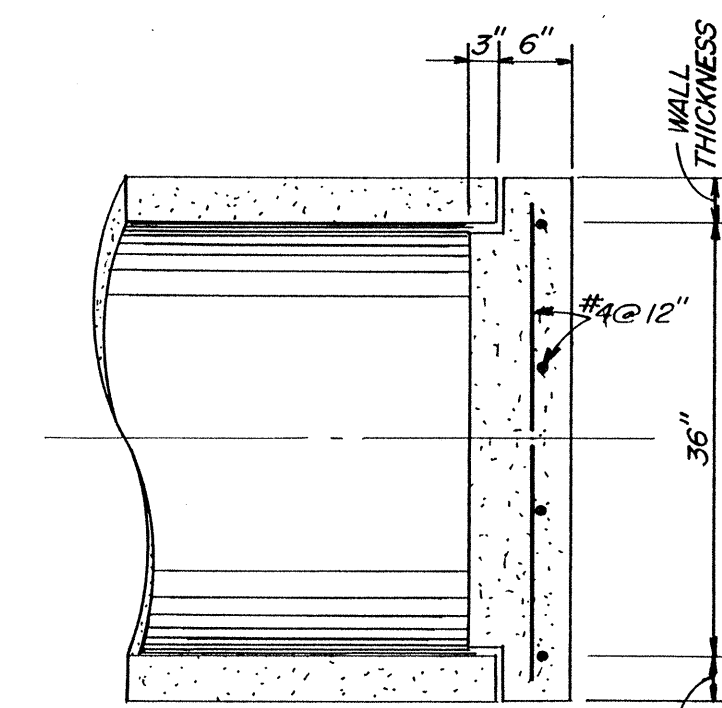
4 W Q



PLAN
SCALE: 1" = 20'
PROFILE
SCALE: VERT. 1" = 2'
HOR. 1" = 20'

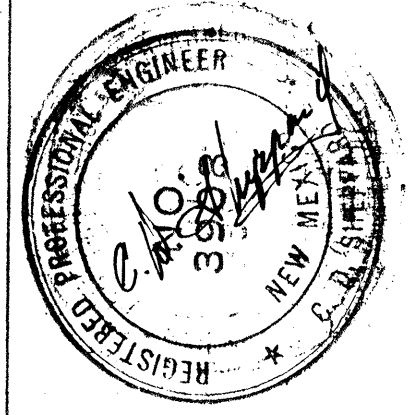


SECTION "A"
SCALE: 1" = 5'



PLUG DETAIL
NTS

- NOTES
- (A) FILL BAR DITCH WITH CRUSHED GRAVEL BASE COURSE AT 90% OF MAX DENSITY AS DETERMINED BY ASTM D 1557. SURFACE OF GRAVEL SHOULD HAVE ZERO SLOPE AND SHOULD BE PLACED SO IT FILLS BAR DITCH AS SHOWN AT SECTION "B-B". GRAVEL SHOULD TAPER TO MATCH BOTTOM OF BAR DITCH IN BOTH DIRECTIONS. **NOT BUILT**
 - (B) BUILD 41" DIA. TYPE "E" MANHOLE PER STD. DETAIL S-2-4 AROUND EXISTING 36" RCP WITH GRATED COVER (NEENAH R-1792-EG OR APPROVED EQUAL).
 - (C) PAVEMENT REPLACEMENT TO BE PER SECTION "B-B".
 - (D) EDGE OF NEW PAVEMENT TO MATCH EXISTING PAVEMENT.



REVISIONS	
NO.	DATE
1	11-1-84
2	12-11-84
3	12-11-84

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION			
TITLE: STORM DRAIN 345' WEST OF FOURTH ST. AT ALAMEDA DRAIN. PLAN & PROFILE STA. 14+50 - 9+80			
APPROVALS	ENGINEER	DATE	APPROVALS
City Engineer	<i>S. Boberg</i>	12-11-84	Liquid Waste
ACE Design	<i>John Z...</i>	12-11-84	Traffic
ACE Hydrology	<i>John Z...</i>	12-11-84	Water
DESIGNED BY: S. BOBERG		DATE: OCT. 26, 1984	
DRAWN BY: R. DURAN		DATE: OCT. 26, 1984	
CHECKED BY: S. BOBERG		DATE: NOV. 1, 1984	
DRAWING NO. 1439		SHEET 2 OF 3	

