

CONSTRUCTION PLANS
FOR
PACIFIC AVENUE
STORM DRAIN

PUBLIC WORKS DEPARTMENT
CITY OF ALBUQUERQUE

GENERAL NOTES

1. 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 the City of Albuquerque Standard Specifications for Public Works Construction 1986 Edition as amended with Update No. 6.
2. Prior to construction, the Contractor shall excavate & 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 delay.
3. Two (2) working days prior to any excavation, Contractor must contact Line Locating Service @ 260-1990 for location of existing utilities.
4. Contractor shall support all existing, underground utility lines which become exposed during construction. Payment for supporting work shall be incidental to storm drain line pay item costs.
5. All street centerlines shown on the plans are the centerlines of existing streets as determined by splitting the distance between existing curbs.
6. Contractor shall conduct his operations in a manner which will minimize interference with local traffic. Contractor shall comply with all applicable laws, ordinances, rules, regulations, and orders of any public body having jurisdiction for the safety of persons or property, and to protect them from damage, injury, or loss. Contractor shall erect and maintain, as required by the conditions and progress of the work, all necessary safeguards for safety continuously and not limited to normal working hours, throughout the duration of the project. Contractor shall adhere to Section 19 of the General Conditions of the City of Albuquerque Standard Specifications for Public Works Construction, 1986, as amended with Update No. 6.
7. The Contractor agrees that he shall assume the sole and complete responsibility for the job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify, and hold harmless the Owner & Engineer from any and all liability real or alleged, in connection with the performance of work on this project, excepting liability arising from the sole negligence of the Owner or Engineer.
8. TRAFFIC CONTROL: Five (5) working days prior to beginning construction the Contractor shall submit to the Construction Coordination Division a detailed construction schedule. Two (2) working days prior to construction, the Contractor shall obtain a barricade permit from the Construction Coordination Division. Contractor shall notify Barricade Engineer (768-2551) prior to occupying an intersection. See Section 19 of the specifications.
9. The Contractor shall promptly clean up any material excavated within the public right-of-way so that the excavated material is not susceptible to being washed down the street or into any public drainage facility.
10. Contractor shall assist the Engineer/Inspector in the recording of data on all utility lines and accessories as required by the City of Albuquerque for the preparation of record drawings. Contractor shall not cover utility lines and accessories until all data has been recorded.
11. Existing curb and gutter, sidewalks and driveways not to be removed under the contract which are damaged or displaced by the Contractor, shall be removed and replaced by the Contractor at his expense.
12. 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.
13. All fittings on waterlines shall have restrained joints.
14. The Contractor is responsible for protecting and maintaining all existing monumentation controls. In the event of inadvertent destruction or alteration, the Contractor must immediately notify the City Chief Surveyor.
15. PNM will provide at no cost to the City or the Contractor the required personnel for inspection or observation deemed necessary by PNM while the Contractor is exposing PNM's cables. However, the Contractor shall be charged the total cost associated with repairs to any damaged cables or for any cost associated with supporting or relocating the poles and cables during construction.

16. WARNING--EXISTING UTILITY LINE LOCATIONS are shown in an approximate manner only, and such lines may exist where none are shown. The location of any such existing lines is based upon information provided by the utility company, the Owner, or by others, and the information may be incomplete or may be obsolete by the time construction commences.

The Engineer has undertaken no field verification of the location, depth, size, or type of existing underground utility lines, makes no representation pertaining thereto, and assumes no responsibility or liability therefor. The Contractor shall inform itself of the location of any utility line in or near the area of the work in advance of and during excavation work. The Contractor is fully responsible for any and all damage caused by its failure to locate, identify, and preserve any and all existing utilities. The Contractor shall comply with State statutes, municipal and local ordinances, rules and regulations pertaining to the location of these lines and facilities, in planning and conducting excavation, whether by calling or notifying the utilities, complying with "Blue Stakes" procedures, or otherwise.

17. All street striping altered or destroyed shall be replaced by the Contractor to existing patterns. Replacement shall be with plastic reflectorized pavement markings. Any such striping shall be considered incidental to pavement construction and no separate payment shall be made therefor.

18. Graded access for residents across the construction zone shall be maintained during construction. On residential streets, one lane of traffic must be maintained at all times.

19. The Contractor shall be responsible for notifying utilities for any adjustment or relocation of existing utilities required by construction. The Contractor may be required to reschedule his activities to allow utility crews to perform their work. No additional costs will be allowed for delays or inconvenience caused by utility company crews.

20. Lowering of the existing gas line on Cromwell is required in advance of construction. The Contractor shall remove all pavement necessary for lowering the line. Contractor shall schedule his work to allow the Gas Company to lower the line prior to storm drain construction.

21. The Contractor shall confine his work within the street right-of-way. Overnight parking of the Contractor's equipment shall not obstruct access roads or traffic lanes.

22. The removal and replacement of all signs, posts, fences, mail boxes and road markings shall be considered incidental to storm drain line construction.

23. All pipe bedding shall conform to Class C bedding as defined in Section 701 of the specifications.

24. There shall be a minimum clearance between utility lines of 0.5 feet. Where this is not possible, two layers of 1/2" expansion joint material shall be placed between utility lines. The cost of providing and placing expansion joint material shall be considered incidental to storm drain line construction and no separate payment shall be made therefor.

25. All storm drain line pipe shall be reinforced concrete pipe, Class III.

26. Curb returns removed shall be replaced with curb returns with Handicap Ramps.

27. Full street closure shall be limited to a maximum of 150 LF at a time.

28. All excavation, trenching and shoring must be accomplished in accordance with OSHA 29CFR 1926.650 Subpart P.

INDEX TO DRAWINGS

SHEET	TITLE
1	COVER SHEET
2	PACIFIC AVENUE, STORM DRAIN PLAN & PROFILE
3	PACIFIC AVENUE, STORM DRAIN PLAN & PROFILE
4	WALTER STREET, STORM DRAIN PLAN & PROFILE
5	CROMWELL AVENUE, STORM DRAIN PLAN & PROFILE
6	I-25 AT CROMWELL AVENUE S.E., STORM DRAIN PLAN & PROFILE
7	DETAILS
8	TRAFFIC CONTROL
9	TRAFFIC CONTROL
10	PACIFIC AVENUE, WATER LINE PLAN & PROFILE
11	PACIFIC AVENUE, WATER LINE PLAN & PROFILE
12	WALTER STREET, WATER LINE PLAN & PROFILE

29. Water shut-off plans are for City use only. Water distribution system shut-off and turn-ons shall be as per Section 18.3 of the General Conditions. The Contractor is responsible for coordination of the water shut off plans with Water Systems Division ~~three~~ working days in advance of shutoff by Water Systems Division (Telephone 857-8200).

30. All waterline replacement connections shall be per City of Albuquerque Standard Drawing 2301.

31. All concrete blocking shall be per City of Albuquerque Standard Drawing 2320.

32. Valve box Type "A" shall be per City of Albuquerque Standard Drawing 2325.

33. Install new fire hydrants as per City of Albuquerque Standard Drawing 2340.

34. Contractor shall exercise caution when removing or working around existing steel lines to avoid electrical shock. Electrical bonds or jumpers are recommended to be used prior to separating steel lines.

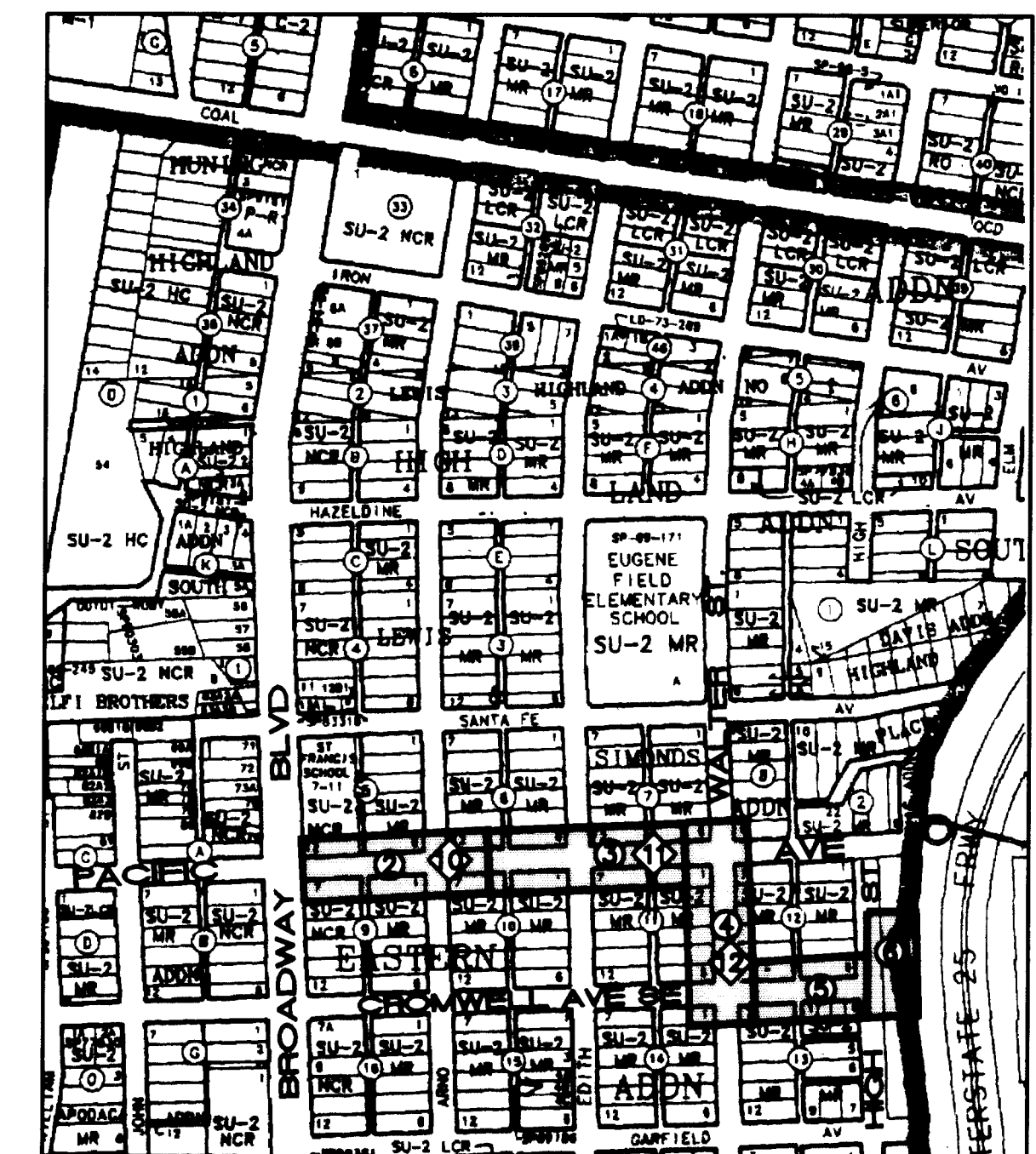
35. Water service lines and meters shall be replaced, transferred, relocated, and rehabilitated as per Section 802 of the technical specification and the plans.

36. Provide 42 feet of bury on all fire hydrants.

37. Where new waterline is installed without a new valve between it and existing line, the Contractor may be required to fill, test, and flush the new line prior to connecting to the existing line, using an independent water source.

38. All new water service lines 2" and smaller shall be copper, ASTM B88, Type K.

39. The Contractor shall not decrease a water service line size unless directed by the Engineer. If differing service line sizes are found other than shown on the tables, notify the Engineer for resolution.



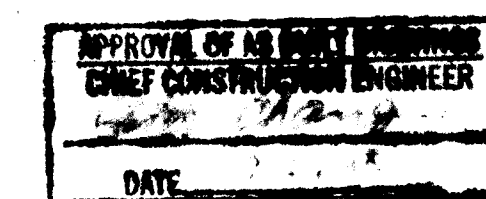
VICINITY & SHEET INDEX MAP

SCALE: 1"=500'±

② INDICATES SHEET NUMBER FOR STORM DRAINS

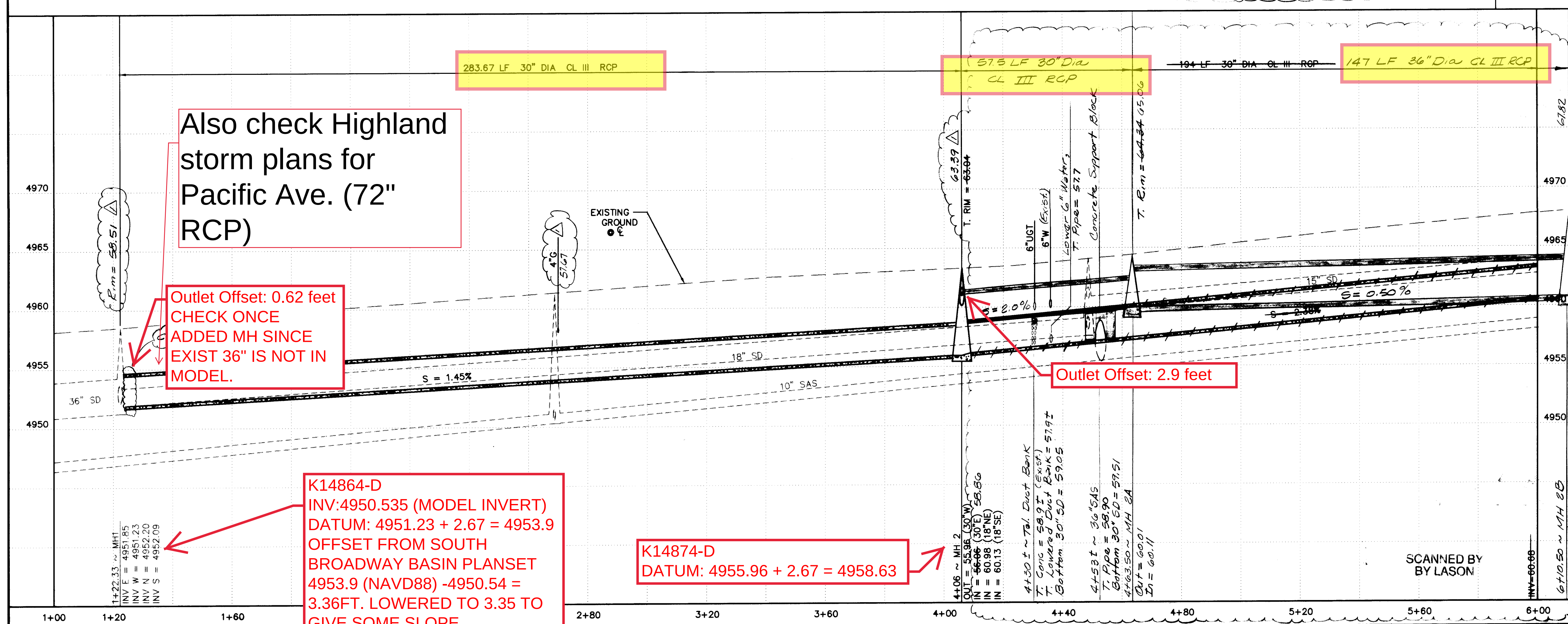
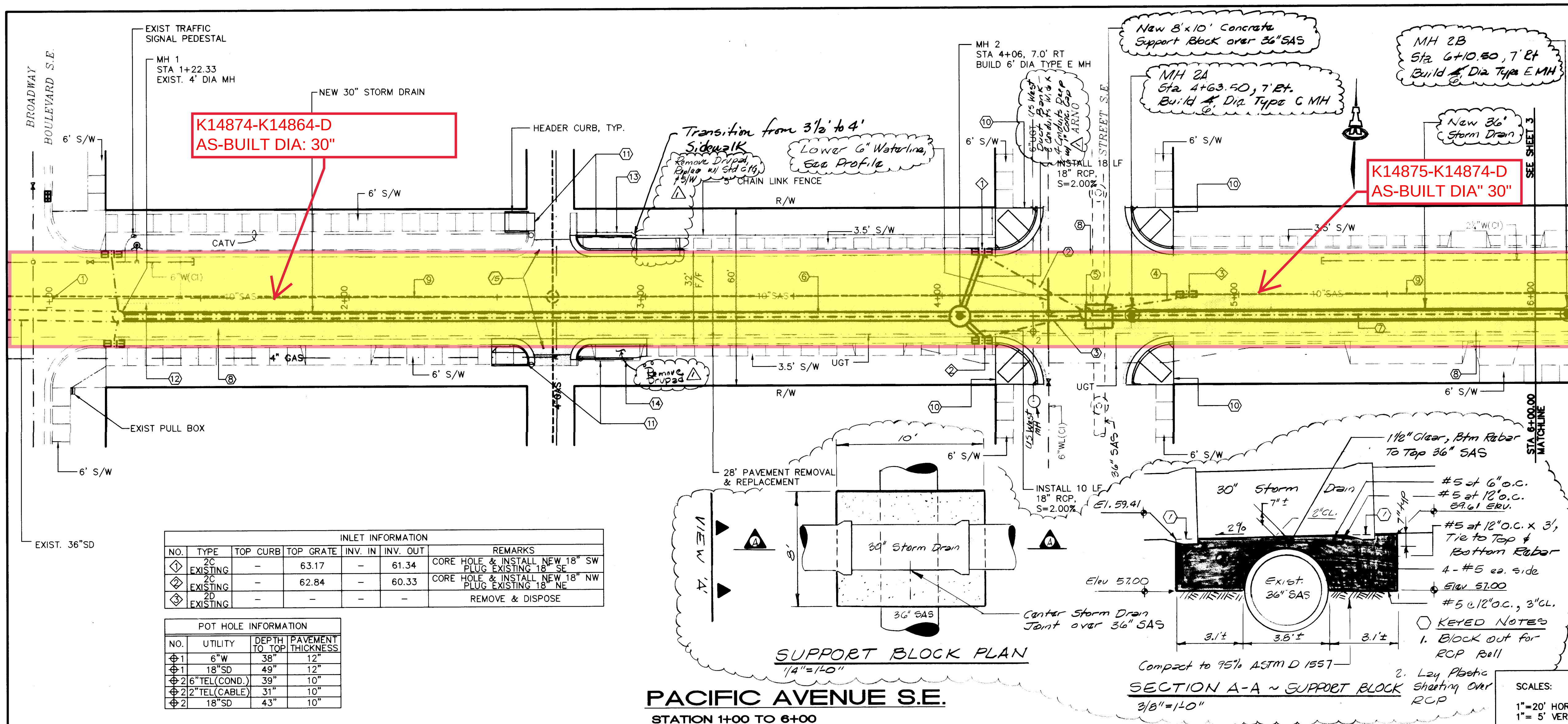
⬢ INDICATES SHEET NUMBER FOR WATERLINES

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 57 10 9 09 8 11 9



SCANNED BY
BY LASON

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	
DRC Chairman		Billie J. Arfman		10/7/97		APPROVED FOR CONSTRUCTION	
Transportation		R. J. Smith		9/23/97		City Engineer	
Water/Wastewater		R. J. Smith		9/23/97			
Hydrology		R. J. Smith		9-23-97			
CIP		R. J. Smith		9-23-97			
Constr. Mgmt.		R. J. Smith		9-23-97			
Const. Coord.		R. J. Smith		10/15/97			
City Project No.		5710.90				Sheet 1 of 12	



KEYED CONSTRUCTION NOTES

CONTRACTOR: Isaacson & Arfman, P.A.

ENGINEER'S SEAL

REVISIONS

NO.	DATE	BY	REMARKS
1	4/13	TOI	Record Drawing Information
2	4/13	MTD	DESIGN

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP

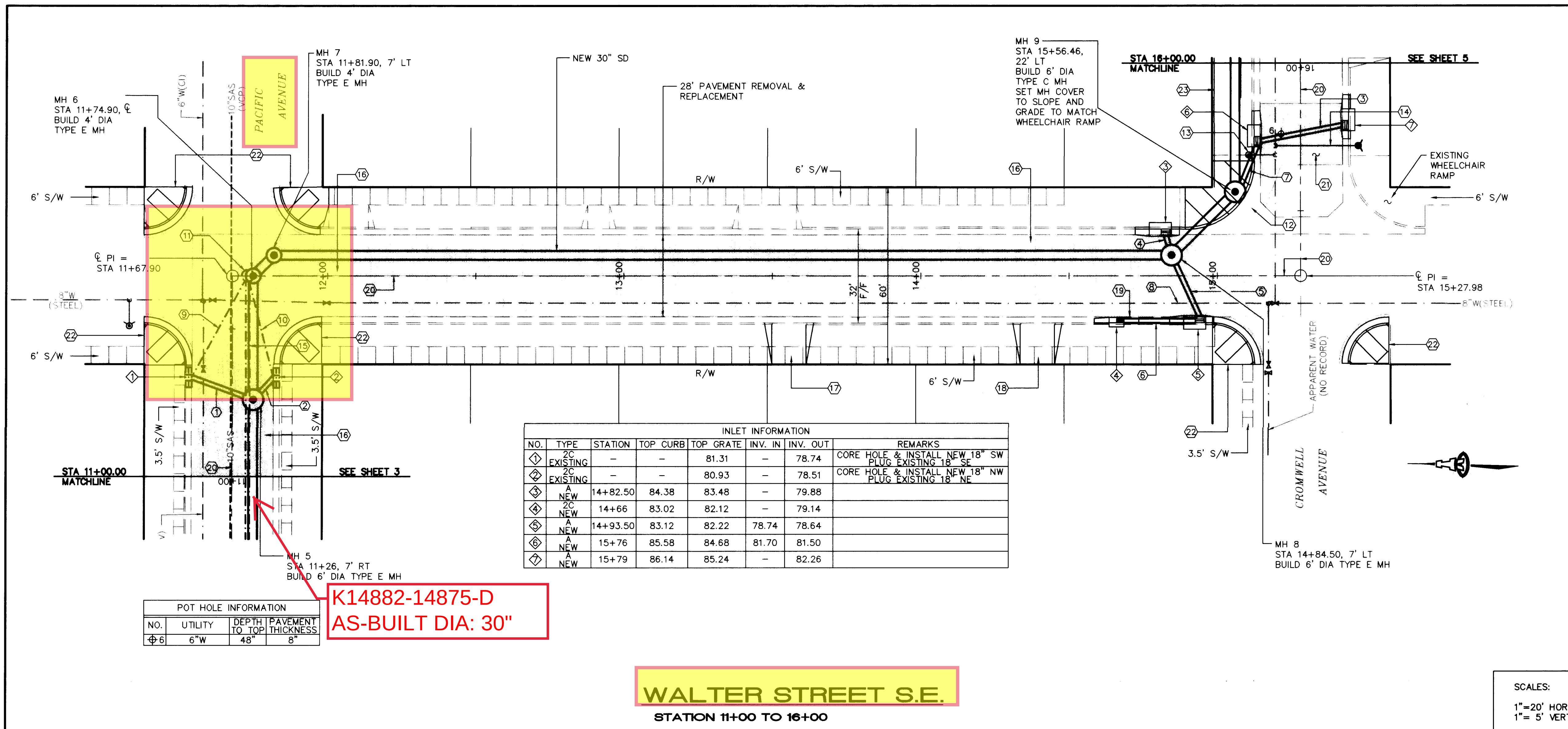
TITLE: PACIFIC AVENUE S.E. STORM DRAIN PLAN & PROFILE

APPROVALS

City Project No. 5710.90

Zone Map No. K 14

Sheet 2 of 12



KEYED CONSTRUCTION NOTES

- INSTALL 20 LF 18" RCP @ 2.0% SLOPE
- INSTALL 8 LF 18" RCP @ 4.0% SLOPE
- INSTALL 28 LF 18" RCP @ 2.0% SLOPE
- INSTALL 5 LF 18" RCP @ 4.0% SLOPE
- INSTALL 20 LF 18" RCP @ 2.0% SLOPE
- INSTALL 21 LF 18" RCP @ 2.0% SLOPE
- INSTALL 16 LF 18" RCP @ 2.0% SLOPE
- NEW WATERLINE REPLACEMENT TO BE CONSTRUCTED BELOW NEW STORM DRAIN CONNECTOR PIPE. BOTTOM OF CONNECTOR PIPE = 78.3.
- REMOVE & DISPOSE 38 LF 18" RCP
- REMOVE & DISPOSE 34 LF 18" RCP
- REMOVE & DISPOSE SD MH
- REMOVE & REPLACE 26 SY CONCRETE VALLEY GUTTER AND 33 SY SIDEWALK. REBUILD WHEELCHAIR RAMP PER STD DWG 2441. *per Case II.*
- REMOVE & RELAY FIRE HYDRANT. REMOVE & DISPOSE 10 LF 6" WATER LINE. CUT & CAP 6" FH LEG. BLOCKING
- STA 15+72. INSTALL 1 - 6X6X6 TEE
1 - 28 LF 6" PIPE
1 - 4" BURY FIRE HYDRANT (RELAY)
1 - NON PRESSURE CONNECTION BLOCKING
INSTALL HYDRANT PER STD DWG #2340. FLANGE ELEV = 86.6
- REMOVE & DISPOSE 66 LF 15" RCP SD
- REMOVE & REPLACE 1340 SY PAVEMENT. SEE DETAILS SHEET 7.
- REMOVE & DISPOSE 9 SY DRIVEPAD AND 12 SY SIDEWALK. BUILD 16 SY NEW DRIVEWAY *per Std Dwg 2425.*
- REMOVE & DISPOSE 12 SY SIDEWALK. BUILD 16 SY NEW DRIVEWAY *per Std Dwg 2425.*
- REMOVE & DISPOSE 86 LF STANDARD CURB & GUTTER, BUILD 22 LF STD CURB & GUTTER *per Std Dwg 2415.*
- CONSTRUCTION BASE LINE AND CENTERLINE OF EXISTING CURB & GUTTER.
- REMOVE & REPLACE 62 SY PAVEMENT. *per Detail on Sheet 7.*
- REMOVE EXISTING CURB, GUTTER, SIDEWALK AND 12" STRIP OF ASPHALT. REPLACE AND BUILD NEW WHEELCHAIR RAMP PER STD DWG 2441, CASE II.
- STA 15+58 TO 16+00 - REMOVE & DISPOSE OF 42 LF 5.5' CHAIN LINK FENCE. REPLACE W/ 6' CHAIN LINK FENCE.

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico

93406PV3.DWGmtd 9/09/97

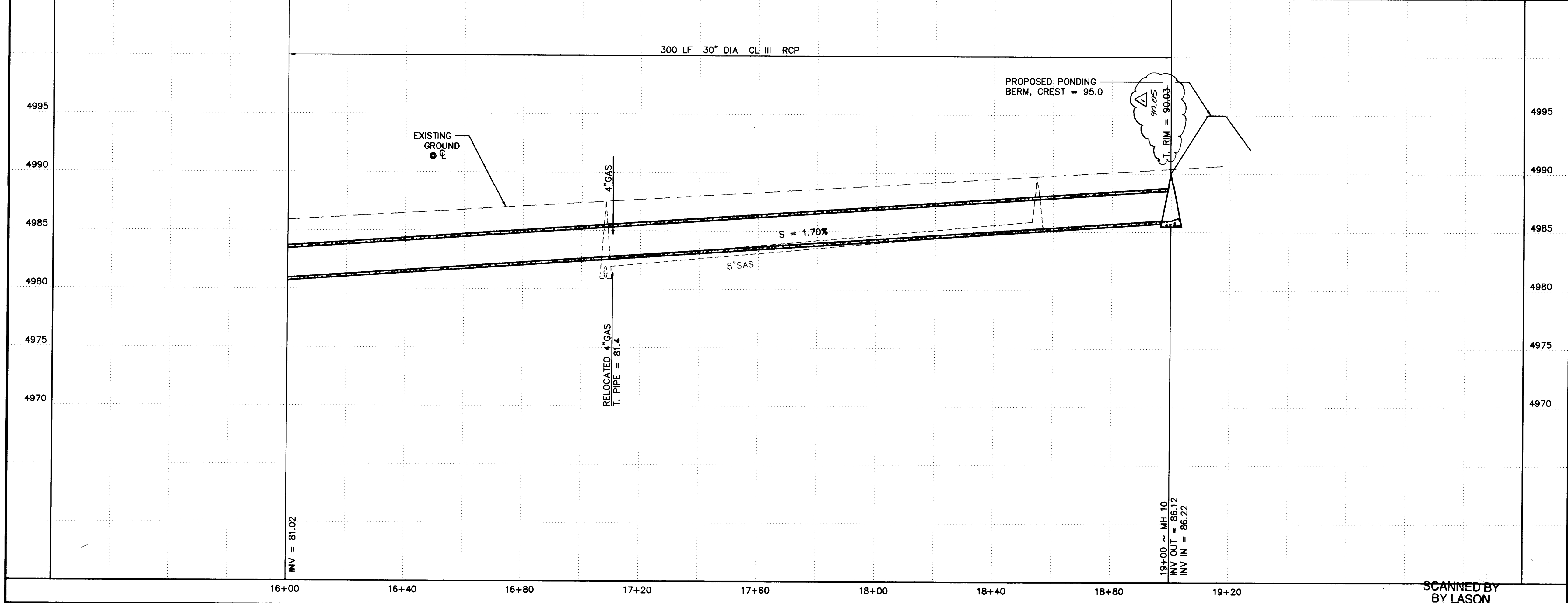
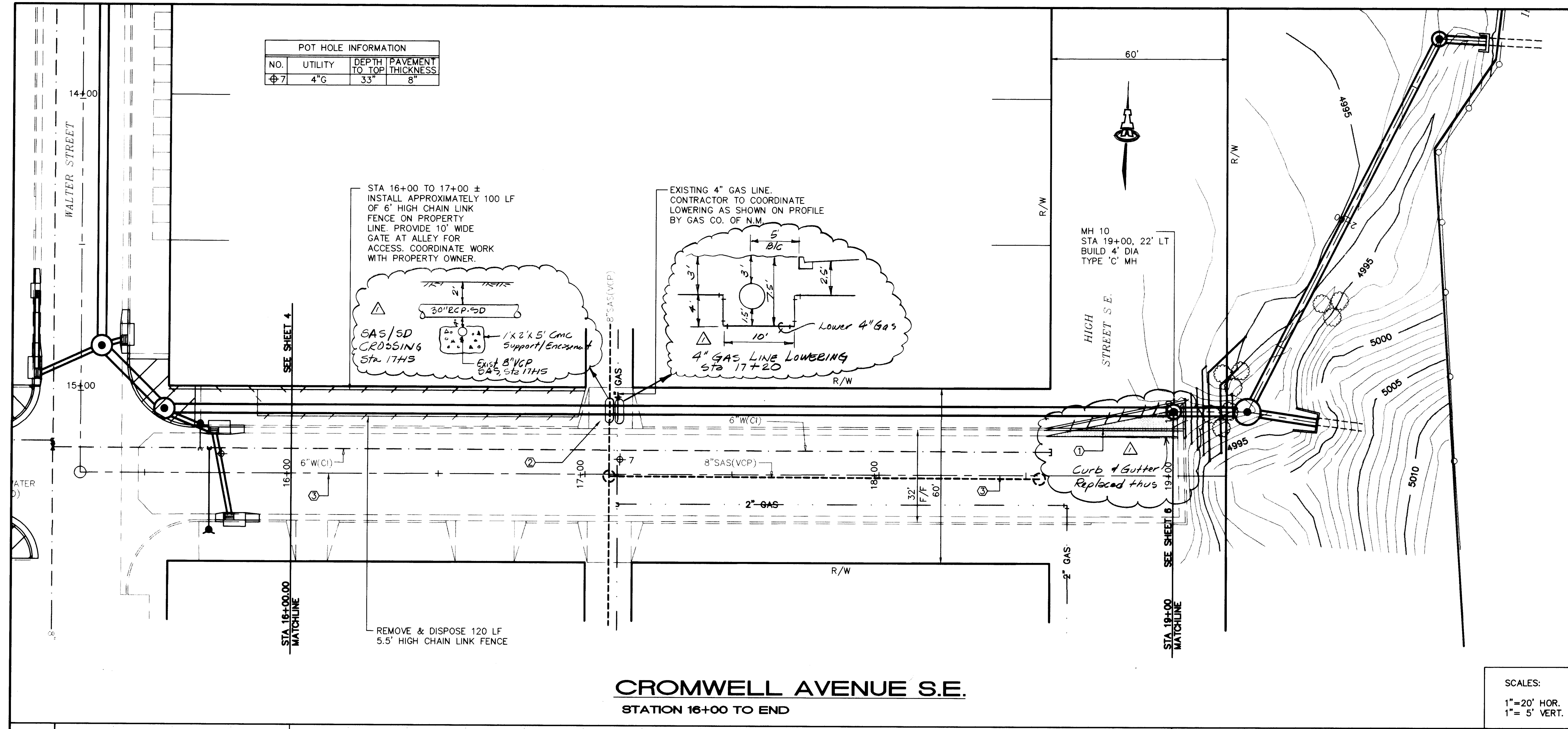
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: WALTER STREET S.E. STORM DRAIN PLAN & PROFILE

Design Review Committee City Engineer Approval

City Project No. 5710.90 Zone Map No. K 14

Sheet 4 of 12



KEYED CONSTRUCTION NOTES

1. REMOVE & REPLACE 48 LF STD CURB & GUTTER AND 25 SY PAVEMENT. SEE DETAILS SHEET 7.
2. REMOVE & REPLACE 20' WIDE DRIVEWAY (23 SY) PER STD DETAIL 2425
3. CONSTRUCTION BASELINE AND CENTERLINE OF EXISTING CURB & GUTTER.

AS-BUILT INFORMATION	
CONTRACTOR	DATE
KLING STUBBINS	9/10/97

BENCH MARKS	
MARK	ELEVATION
ACS MONUMENT "S-K 144"	4965.21

SURVEY INFORMATION	
FIELD	NOTES

ENGINEER'S SEAL	
NAME	DATE
ISAACSON & ARFMAN, P.A.	9/10/97

REVISIONS	
NO.	DATE
1	4/98

DESIGN	
DESIGNED BY	DATE
TOI	JUNE 1997

DRAWN BY	
MTD	DATE
MTD	JUNE 1997

CHECKED BY	
DATE	DATE

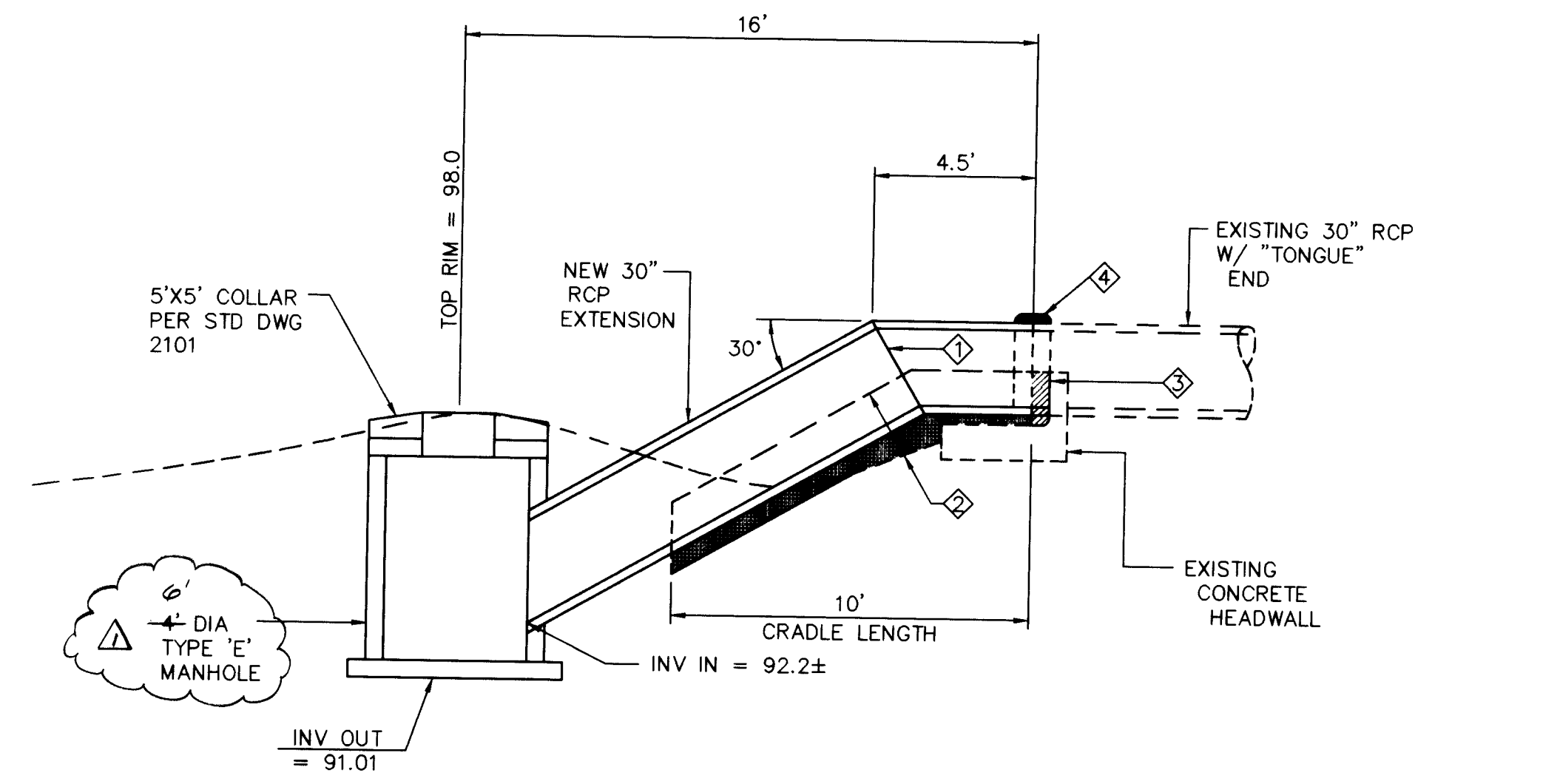
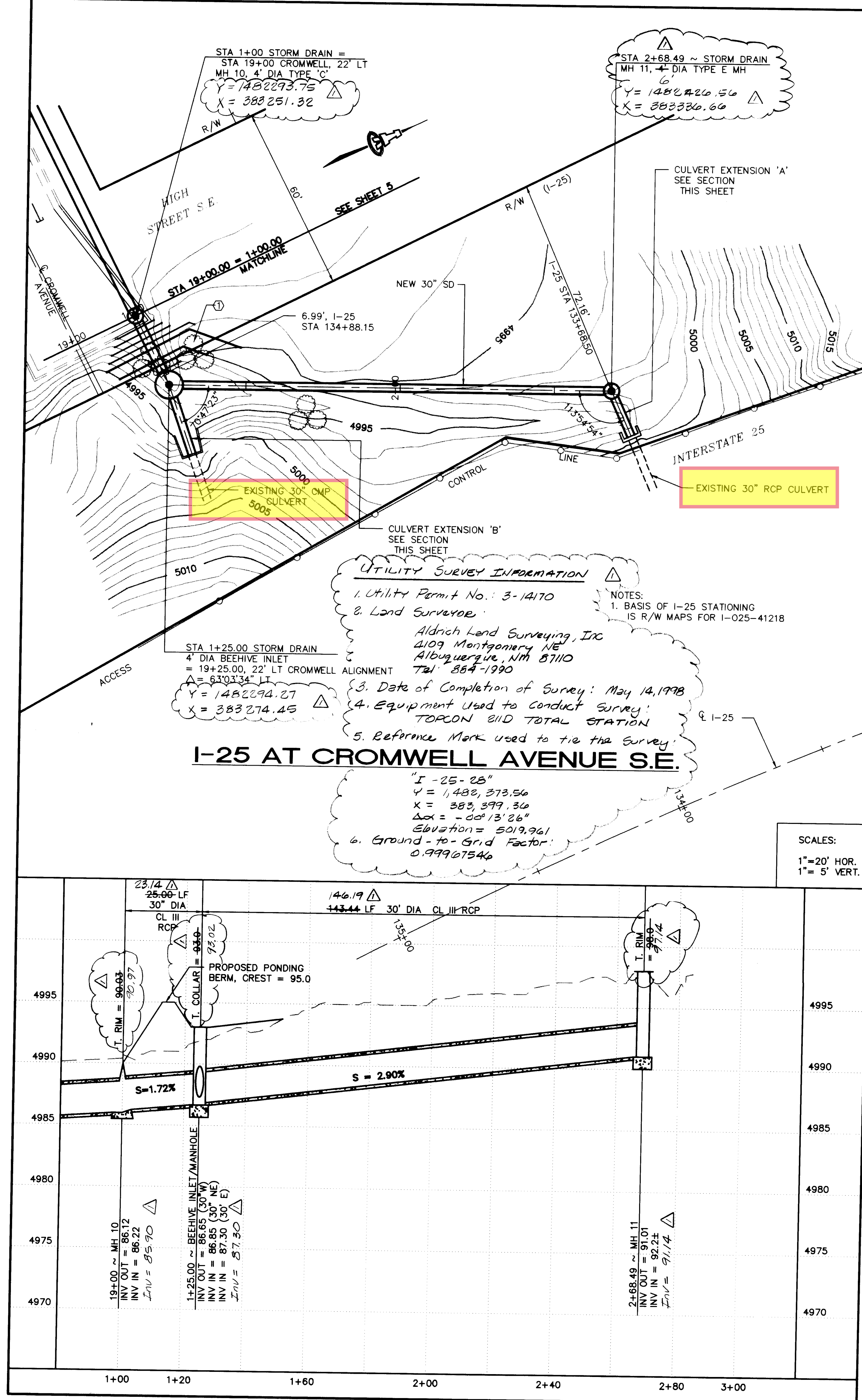
93406PV4.DWGmtd 9/09/97

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
**CROMWELL AVENUE S.E.
STORM DRAIN PLAN & PROFILE**

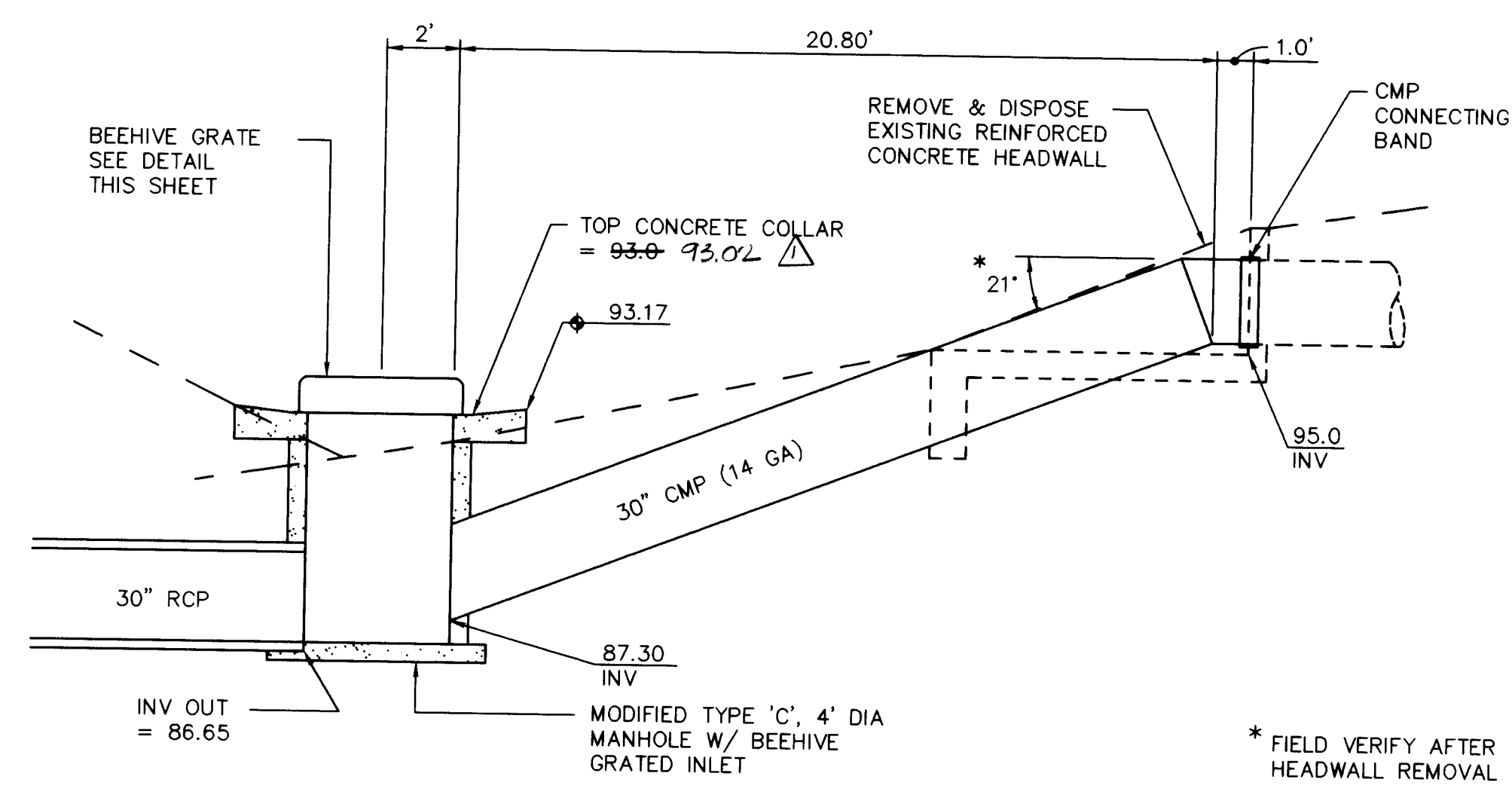
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED			

City Project No. **5710.90** Zone Map No. **K 14** Sheet **5** Of **12**



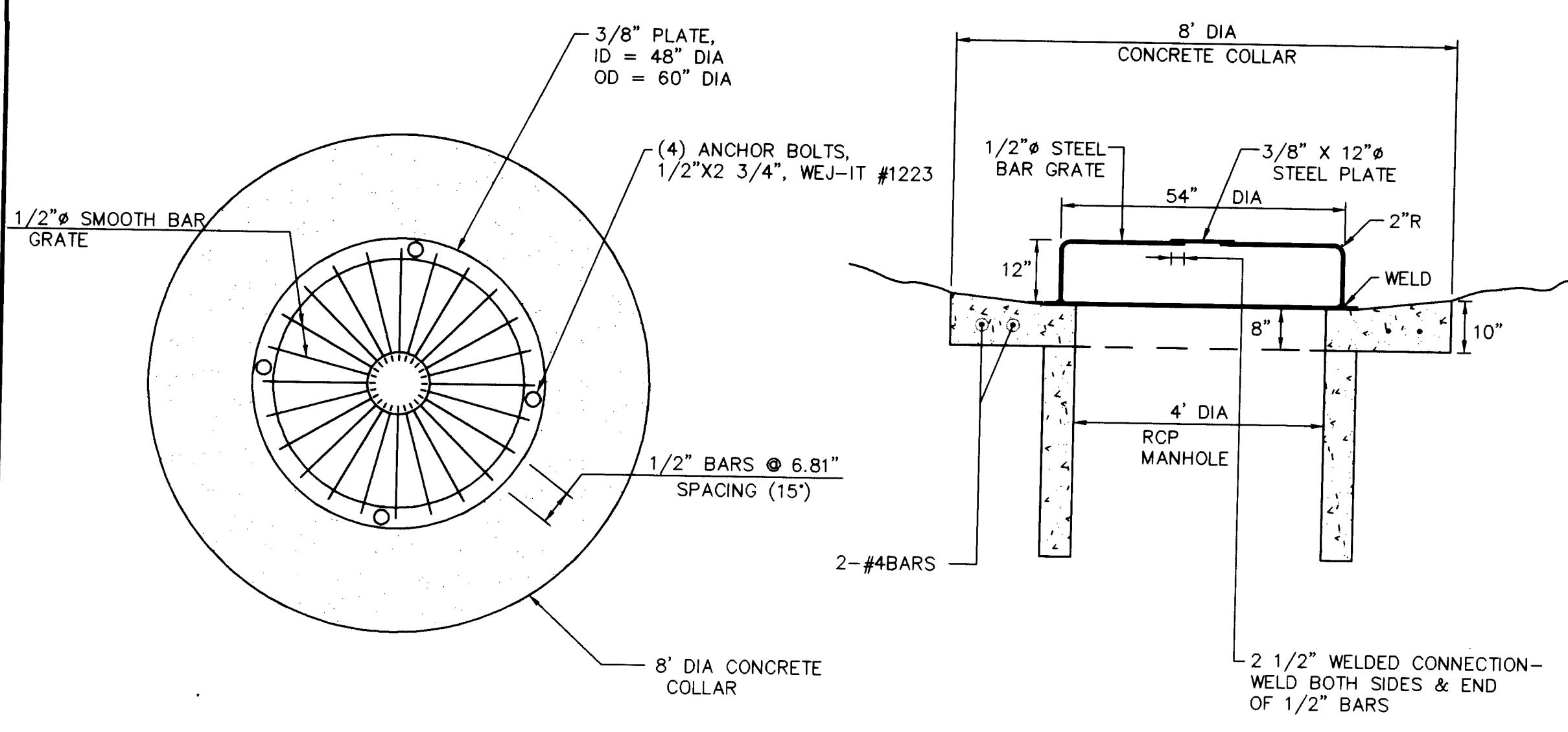
SECTION AT CULVERT EXTENSION 'A'

SCALE: 1/4" = 1'-0"



SECTION AT CULVERT EXTENSION 'B'

SCALE: 1/4" = 1'-0"



BEEHIVE GRATE DETAIL

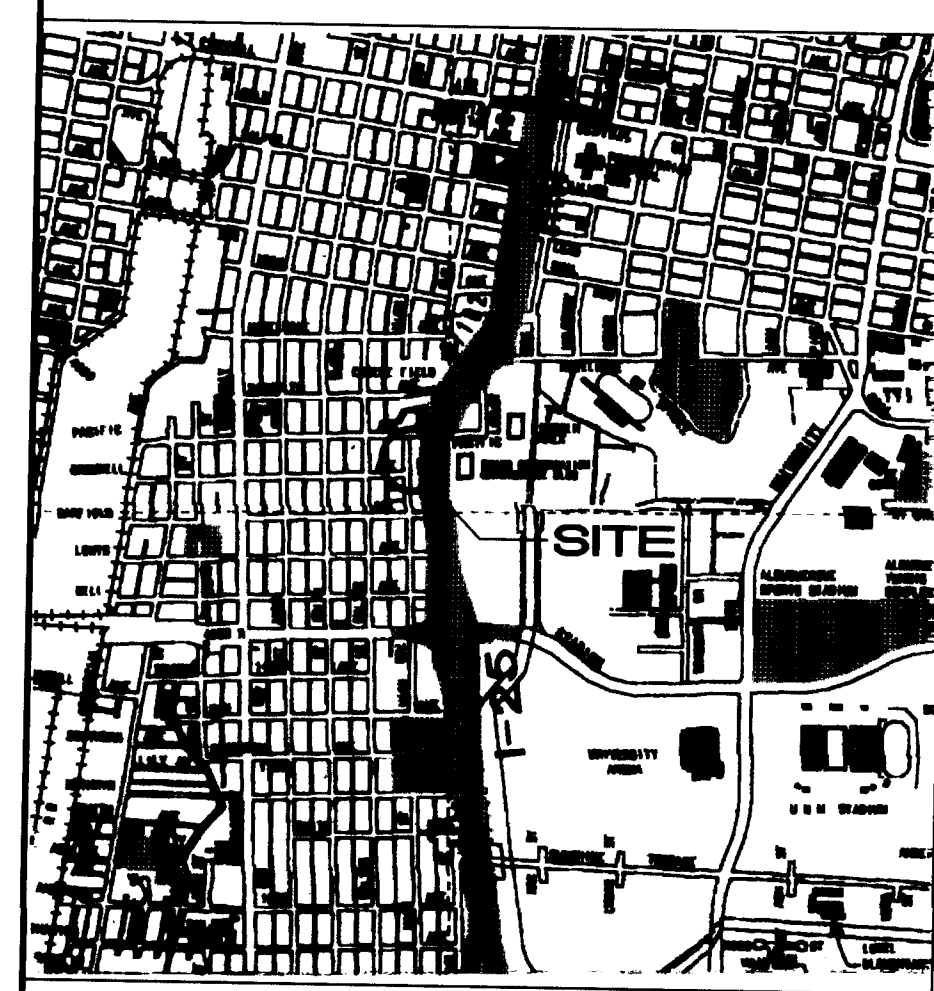
SCALE: 1/2" = 1'-0"

KEYED CONSTRUCTION NOTES

- BUILD PONDING BERM :
CREST ELEVATION = 4995
CREST WIDTH = 4'
SIDE SLOPES = 2:1
COMPACT BERM TO 95%
ASTM D1557 AND
PLATE ENTIRE BERM
SURFACE WITH BROKEN
RUBBLE CONCRETE SALVAGED
FROM EXISTING CULVERT OUTLET.
RUBBLE CONCRETE TO BE
HAND PLACED TO PRODUCE
PLEASING BERM FINISH.

KEYED DETAIL NOTES

- SHOP FABRICATED 30" ELBOW, 30" CL III RCP
- MORTAR CRADLE, MIN 6" THICK
BELOW BOTTOM OF RCP (EXCEPT AT
EXISTING HEADWALL FLOOR), 5' WIDE
AND UP OUTSIDE WALL OF PIPE 12".
- REMOVE EXISTING HEADWALL AS REQUIRED
FOR ACCESS FOR CONSTRUCTING NEW RCP
JOINT. REPLACE WITH NEW CONCRETE
BONDED TO EXISTING CONCRETE WITH
CONSTRUCTION EPOXY - REZI-WELD 1000,
W.R. MEADOWS (CONCRETE SYSTEMS 884-1134)
OR APPROVED EQUAL.
- PORTLAND CEMENT MORTAR POURED IN
"DIAPER" TYPE FORMS (COMMERCIALLY
MANUFACTURED) PLACED ON OUTSIDE
CIRCUMFERENCE OF NEW PIPE JOINT.

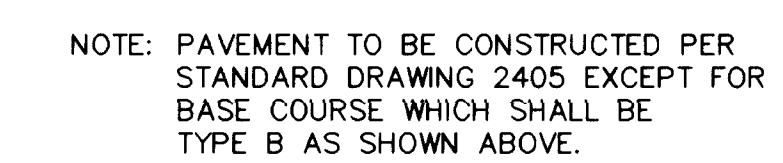


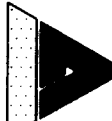
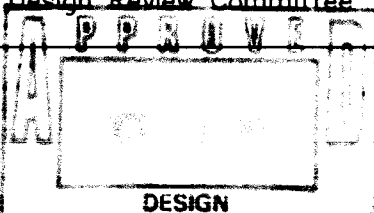
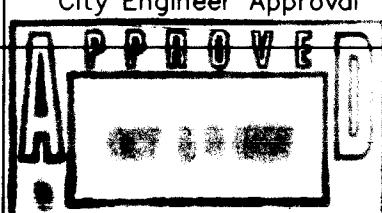
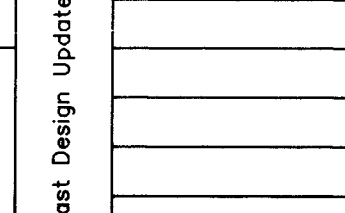
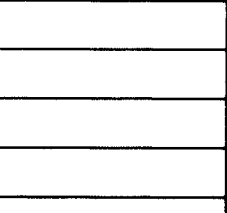
VICINITY MAP

SCALE: 1"=1700'

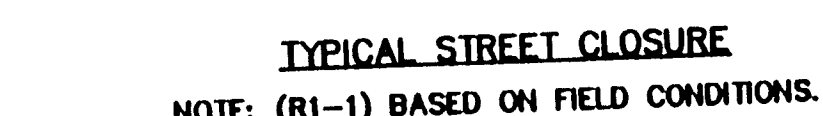
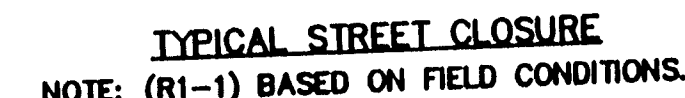
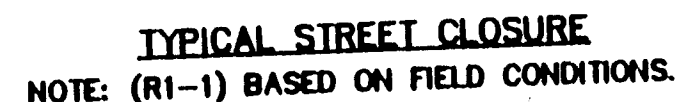
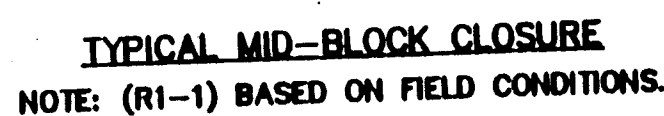
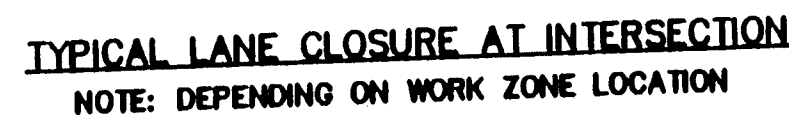
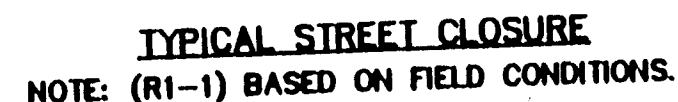
DATE: AUG. 1997 SCALE: 1"=20' H., 1"=5' V.
ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico
93406PV5.DWGmtd 8/25/97

CITY OF ALBUQUERQUE ~ BERNALILLO CO. PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: I-25 AT CROMWELL AVENUE S.E. STORM DRAIN PLAN & PROFILE	
Design Review Committee APPROVED DESIGN REVIEW COMMITTEE City Project No. 5710.90	City Engineer Approval APPROVED CITY ENGINEER Zone Map No. K 14
Ms./Day/Yr. No. DATE DESIGNED BY TOI DRAWN BY MTD CHECKED BY	Ms./Day/Yr. NO. DATE DESIGNED BY TOI DRAWN BY MTD CHECKED BY
Sheet 6	Of 12

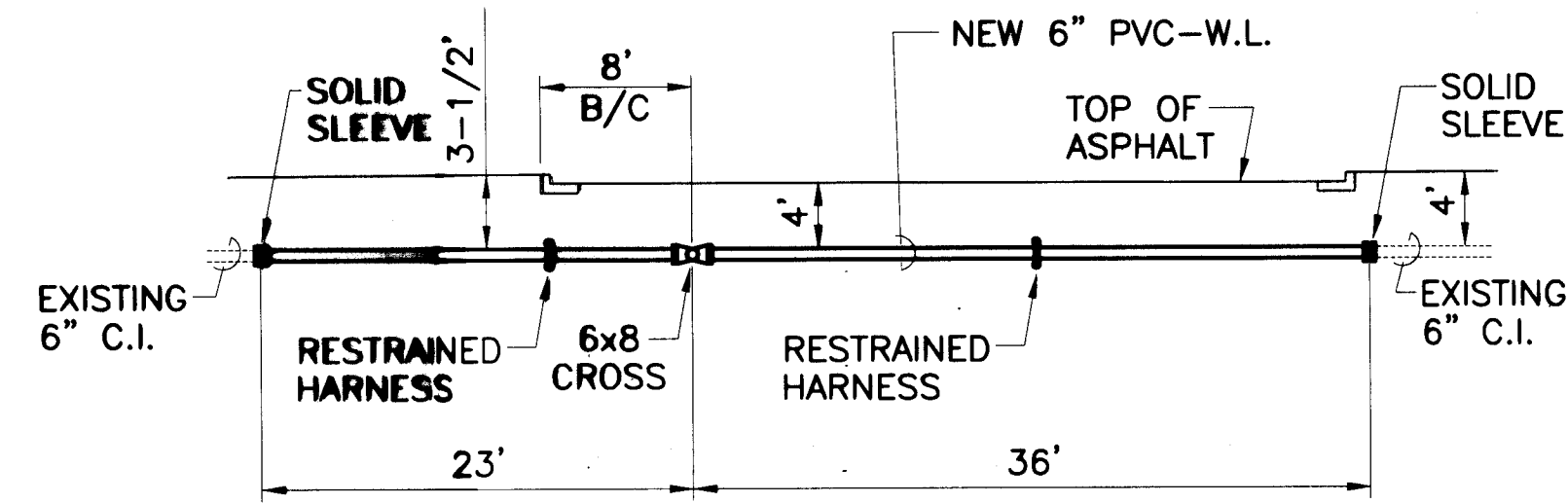
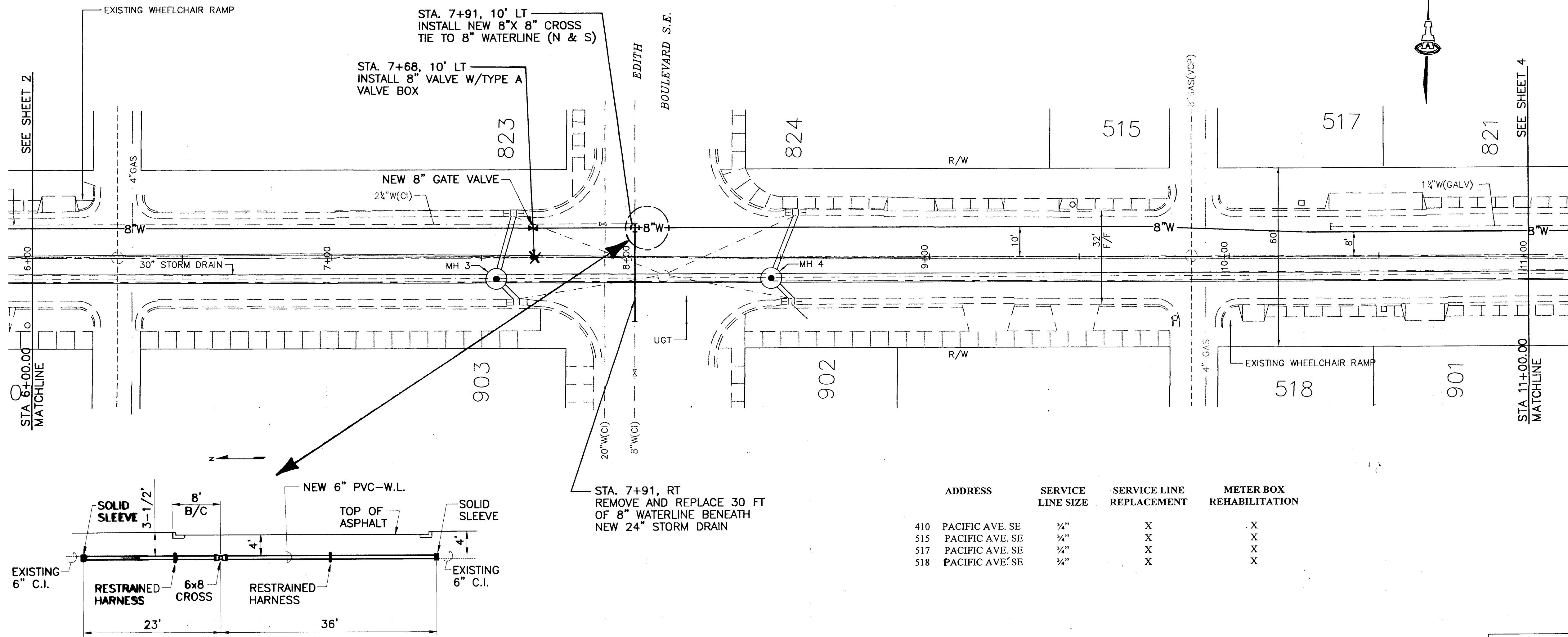
[illegible]

 ISAACSON & ARFMAN, P.A. <i>Consulting Engineering Associates</i> 128 Monroe Street N.E. Albuquerque New Mexico	NO. DATE		DESIGNED BY TOI	DRAWN BY MTD	CHECKED BY
	934060	DL.DWG			
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: PACIFIC AVENUE STORM DRAIN DETAILS					
Design Review Committee 	City Engineer Approval 	Last Design Update 	Mo./Day/Yr. 		
City Project No. 5710.90	Zone Map No. K-14	Sheet 7	Of 12		

SCANNED BY
BY LASON



LAST UPDATE		MO./DAY/YR.		MO./DAY/YR.	
K 14					
SHEET 9 OF 12					
CONTROL & REF. M.U.T.C.D.)					
DEPARTMENT					
MPMENT GROUP					
QUERQUE					
NO. DATE		REMARKS		BY	

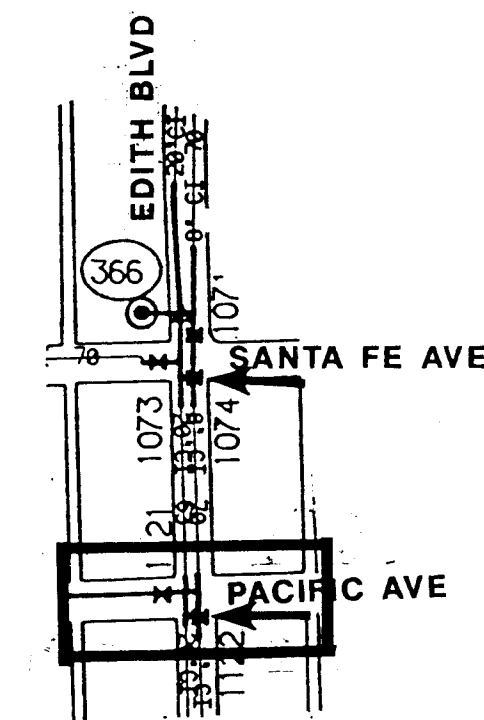
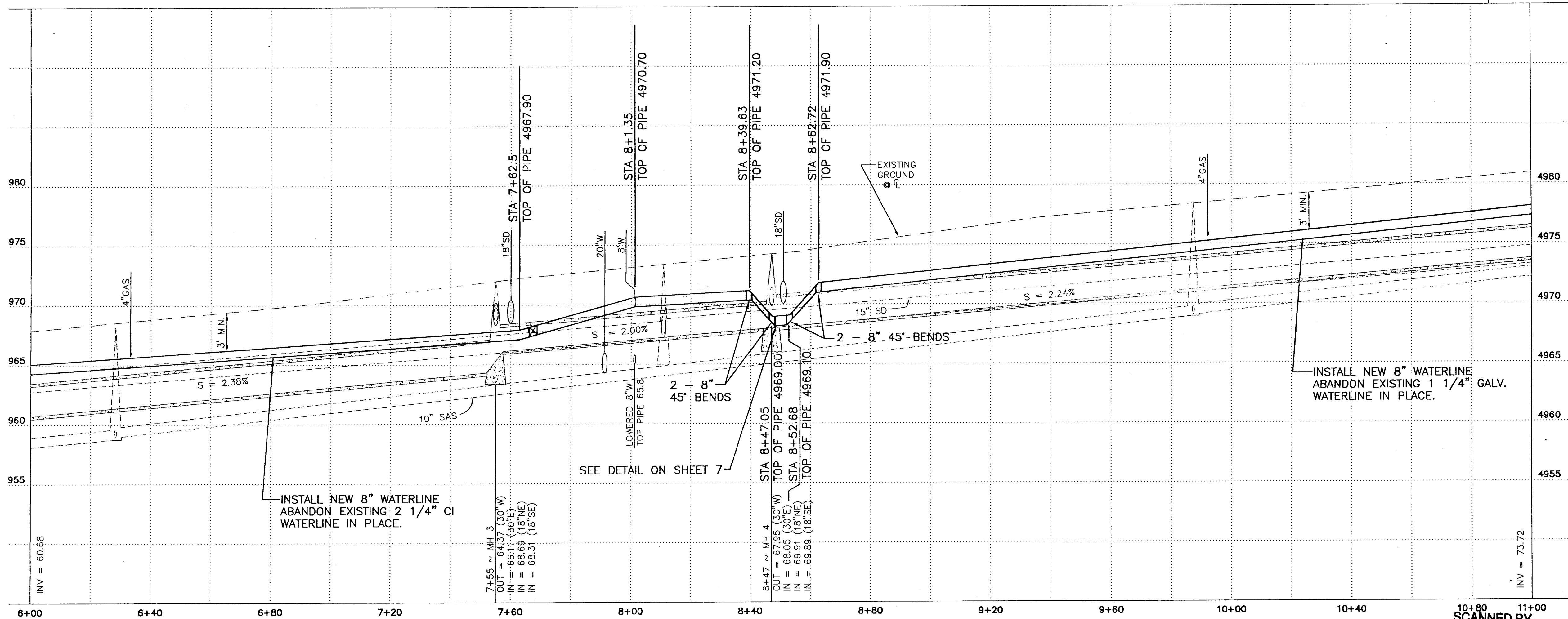


ADDRESS	SERVICE LINE SIZE	SERVICE LINE REPLACEMENT	METER BOX REHABILITATION
410 PACIFIC AVE. SE	3/4"	X	X
515 PACIFIC AVE. SE	3/4"	X	X
517 PACIFIC AVE. SE	3/4"	X	X
518 PACIFIC AVE. SE	3/4"	X	X

WATERLINE PROFILE

PACIFIC AVENUE S.E.
STATION 6+00 TO 11+00

SCALES:
1"=20' HOR.
1"= 5' VERT.



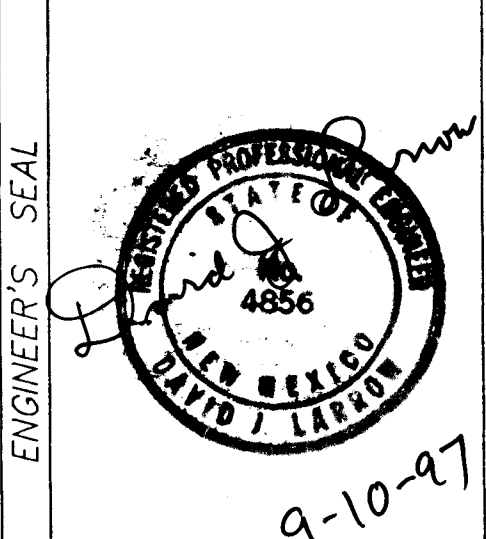
WATER SHUT-OFF

- CONTRACTOR SHALL BE RESPONSIBLE FOR TIMING AND COORDINATION OF THE WATER SHUT-OFF REQUIREMENTS IN CONJUNCTION WITH COMPLETION OF THIS PROJECT
- AT LEAST FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CONTACT PWD/WATER SYSTEMS DIVISION (857-8260) TO INITIATE IMPLEMENTATION OF THIS WATER SHUT-OFF PLAN.
- TO COMPLETE NON-PRESSURE CONNECTION SHOWN, THE EXISTING VALVES LISTED BELOW AND MARKED WITH AN ARROW (→) ON THE ABOVE MAP MUST BE CLOSED BY PWD/WATER SYSTEMS PERSONNEL.

MAP #	VALVE #
K-14	1074
K-14	1122

AS-BUILT INFORMATION	BENCH MARKS	SURVEY INFORMATION	ENGINEER'S SEAL
CONTRACTOR: <i>Ross Blum</i>	AGS MONUMENT "S-K 14A" ELEVATION = 4985.21	FIELD NOTES	SEAL
WORKED BY: <i>Conrad Sauter</i>			
INSPECTED BY: <i>Conrad Sauter</i>			
ACCEPTANCE BY: <i>Conrad Sauter</i>			
DATE: <i>9/10/97</i>			
VERIFICATION BY: <i>Conrad Sauter</i>			
DATE: <i>9/10/97</i>			
DESIGNED BY: <i>David G. Lerner</i>			
DATE: <i>5-19-98</i>			
DRAWN BY: <i>David G. Lerner</i>			
CHECKED BY: <i>David G. Lerner</i>			
DATE: <i>9-10-97</i>			

AS-BUILT INFORMATION	BENCH MARKS	SURVEY INFORMATION	ENGINEER'S SEAL
CONTRACTOR: <i>Ross Blum</i>	AGS MONUMENT "S-K 14A" ELEVATION = 4985.21	FIELD NOTES	SEAL
WORKED BY: <i>Conrad Sauter</i>			
INSPECTED BY: <i>Conrad Sauter</i>			
ACCEPTANCE BY: <i>Conrad Sauter</i>			
DATE: <i>9/10/97</i>			
VERIFICATION BY: <i>Conrad Sauter</i>			
DATE: <i>9/10/97</i>			
DESIGNED BY: <i>David G. Lerner</i>			
DATE: <i>5-19-98</i>			
DRAWN BY: <i>David G. Lerner</i>			
CHECKED BY: <i>David G. Lerner</i>			
DATE: <i>9-10-97</i>			



RECORD SET

David G. Lerner
5-19-98



ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PACIFIC AVENUE S.E.
WATERLINE PLAN & PROFILE**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	Mo./Day/Yr.	Mo./Day/Yr.
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL		
City Project No. 5710.90	Zone Map No. K 14	Sheet 11	Of 12

SCANNED BY LASON

