WATER & SANITARY SEWER REPLACEMENT II

LIST OF DRAWINGS

SHEET NO.	DRAWING NO.	TITLE
1	WRD 82.15.01	TITLE SHEET, LEGEND INDEX, & GEN. NOTES
2 & 3	WRD 82.15.02-03	PROJECT LOCATION MAPS
4	WRD 82.15.04	15 TH. STREET S.W.
5	WRD 82.15.05	15 TH. STREET S.W.
6	WRD 82.15.06	PROSPECT AVE. N.W.
7	WRD 82.15.07	PROSPECT AVE. N.W.
7	WRD 82.15.07	CEDAR AVE. S.E.
8	WRD 82.15.08	CEDAR AVE. S.E.
9	WRD 82.15.09	FREDERICK CT. N.W.
10	WRD 82.15.10	WASHINGTON ST. N.E.
11	WRD 82.15.11	ESPANOLA ST. N.E.
12	WRD 82.15.12	ESPANOLA ST. N.E.
13	WRD 82.15.13	ESPANOLA ST. N.E.
14	WRD 82.15.14	ESPANOLA ST. N.E.
15	WRD 82.15.15	MARQUETTE, COPPER DOMINGO
16	WRD 82.15.16	ALLEY BTW. BETTS & MORRIS(MH. 908-911)
17	WRD 82.15.17	4 TH. STREET N.W.
18	WRD 82.15.18	MENAUL BLVD N.W
~~19~~	~~WRD 82.15.19~~	~~SAS DIVERSION FACIL~~
~~20~~	~~WRD 82.15.20~~	~~SAS DIVERSION FACIL~~
21	WRD 82.15.21	SLIPLINE DETAILS
22	WRD 82.15.22	DETAILS
23	WRD 82.15.23	TRAFFIC CONTROL

NOT TO BE INCLUDED IN THIS PROJECT

6" WATERMAIN - 15 TH. STREET S.W.
6" " - PROSPECT AVENUE N.W.
6" " - CEDAR AVENUE S.E.
6" " - FREDERICK COURT N.W.
8" SANITARY SEWER - WASHINGTON STREET N.E.
8" " " / ESPANOLA STREET N.E.
6" WATERMAIN
8" " - COPPER AVENUE N.E.
6" " - MARQUETTE AVENUE N.E.
MISC. WATERMAIN WORK - DOMINGO ROAD N.E.
8" SANITARY SEWER - ALLEY EAST OF BETTS ST., NORTH OF LOMAS BLVD.
8", 18", 21" SANITARY SEWER - 4 TH. ST. & MENAUL N.W.
~~SANITARY SEWER DIVERSION FACILITY LINE 107~~

LEGEND

- W.L. — PROPOSED WATER LINE
- SAS — PROPOSED SEWER LINE
- PROPOSED GATE VALVE (WATER)
- PROPOSED FIRE HYDRANT
- PROPOSED TEE
- PROPOSED SANITARY MANHOLE
- W — EXISTING WATER LINE & VALVE
- SAS — EXISTING SEWER LINE & MANHOLE
- SD — EXISTING STORM DRAIN & MANHOLE
- G — GAS MAIN
- UT — UNDERGOUND TELEPHONE
- TELEPHONE MANHOLE
- UTILITY POLE
- EXISTING TEE (WATER)
- EXISTING CURB & GUTTER WITH STORM INLET
- EXISTING BUILDING
- EXISTING WATER METER
- METER BOX REHABILITATION
- RELOCATE BOX & PLATE
- REPLACE EXISTING SERVICE LINE/OR INSTALL NEW SERVICE LINE
- REPLACE EXISTING SERVICE LINE ONLY
- INSTALL DOUBLE BOX & PLATE

GENERAL NOTES

1. THE LOCATION OF ALL EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS, ARE APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING FINAL UTILITY LOCATION DETERMINATION IN THE FIELD DURING CONSTRUCTION. THIS IS INCIDENTAL TO THE CONTRACT.
2. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES BY CALLING "SUESTAKES" AT 766-1234 AT LEAST 48 WORKING HOURS PRIOR TO COMMENCING WORK IN ANY PART OF THE PROJECT AREA.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND MAINTAINING IN SERVICE ALL EXISTING UTILITIES.
4. THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE CONSTRUCTION LIMITS AND/OR RIGHT-OF-WAYS TO PRESERVE EXISTING VEGETATION AND PRIVATE PROPERTY. OVERNIGHT PARKING OF CONTRACTOR'S EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAY OPENINGS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL SCHEDULE HIS TRENCHING INSTALLATION AND BACKFILL OPERATIONS SO THAT ACCESS TO ANY DRIVEWAY IS NOT DISRUPTED LONGER THAN ONE WORKING DAY.
5. THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH THE ENGINEER TO MINIMIZE TRAFFIC DISRUPTIONS. NO CONSTRUCTION WILL BE ALLOWED ADJACENT TO PUBLIC SCHOOLS, EXCEPT DURING SCHOOL HOLIDAYS AND/OR BREAKS.
6. A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIALS SHALL BE OBTAINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE, HAULING THERETO AND PROPER DISPOSAL THEREOF SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO DIRECT PAYMENT WILL BE MADE THEREFOR.
7. THE CITY OF ALBUQUERQUE STANDARD DETAILS ARE INCLUDED IN THE SPECIFICATIONS AND MADE A PART OF THIS CONTRACT.
8. THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1979 EDITION AND SUPPLEMENTAL SPECIFICATIONS WILL GOVERN WORK ON THIS PROJECT, UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS.
9. ENDS OF ALL ABANDONED WATER LINES SHALL BE SECURED BY THE INSERTION OF A 12 INCH MORTARED PLUG, UNLESS OTHERWISE NOTED. THIS WORK SHALL BE INCIDENTAL AND NO EXTRA PAYMENT SHALL BE MADE FOR SAID WORK.
10. ARTERIAL PAVEMENT IS TO BE USED ON WASHINGTON BLVD., NE, COAL AVE., SE, LEAD AVE., SE, CENTRAL AVE., NE.
11. WHERE CONCRETE BLOCKING IS CALLED FOR, WRAP ALL BENDS, TEES, AND OTHER FITTINGS WITH POLYETHELENE.
12. WATER SYSTEMS DIVISION SHALL BE THE ONLY AUTHORIZED PERSONNEL TO OPERATE EXISTING VALVES, FIRE HYDRANTS, ETC. ALL WORK SHUTOFFS MUST BE COORDINATED WITH SAID DIVISION THREE (3) FULL WORKING DAYS PRIOR TO PROPOSED SHUTOFFS. CALL 766-7100.
13. NEW WATER LINE TO EXISTING STEEL PIPE RECONNECTION--SEE SPECIAL NOTE ON STD. DRAWING W-1-2 IN CONTRACT DOCUMENTS WHEN NEW LINE MUST REDUCE IN SIZE TO EXISTING LINE.
14. PROPERTY OWNERS, ADJACENT TO THE PROJECT, MAY DESIRE REPLACEMENT OF THEIR EXISTING DETERIORATED SANITARY SEWER SERVICE AT THE TIME THE SERVICE IS EXPOSED DURING THE NORMAL CONSTRUCTION. THIS WORK SHALL BE SEPARATE FROM THIS PROJECT AND SHALL BE PAID FOR BY THE REQUESTOR DIRECTLY TO (a) THE PROJECT CONTRACTOR, OR (b) A PRIVATE PLUMBING CONTRACTOR WHO SHALL COORDINATE HIS ACTIVITIES WITH THE PROJECT CONTRACTOR.
15. WATER SYSTEMS DIVISION SHALL HAVE THE AUTHORITY TO CANCEL ALL SCHEDULED SHUTOFFS.
16. CONTRACTOR SHALL RECONNECT ALL SANITARY SEWER HOUSE SERVICES IN THE MANNER AND DIRECTION AS ORIGINALLY FOUND; EVEN IF THIS SHALL MEAN THE SERVICE MAY BE AT AN ANGLE OTHER THAN 90 DEGREES FROM THE MAIN; PER AGREEMENT WITH THE MECHANICAL SECTION/CODE ADMINISTRATION DIVISION.
17. THE CONTRACTOR SHALL COMPLETE ALL SANITARY SEWER AND WATER WORK INTENDED FOR A STREET BEFORE MOVING ONTO ANOTHER STREET IN THE PROJECT, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER. ONCE ALL SANITARY SEWER AND WATER WORK HAS BEEN DONE IN A STREET, THE CONTRACTOR SHALL HAVE TWO (2) WEEKS TO LAY CURB AND GUTTER, SIDEWALK, SUBGRADE, AND BASE COURSE ONLY WITHIN THE STREET. SURFACE COURSE SHALL BE LAID ONLY AFTER SUCCESSFUL TESTING OF ALL OTHER WORK WITHIN THE STREET.
18. THE CARE AND PROTECTION OF ALL OTHER UTILITIES, CURB AND GUTTER, SIDEWALK, AND OTHER STREET APPURTENANCES THAT ARE NOT A PART OF THE INTENDED WORK AS SHOWN ON PLANS ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF DAMAGED, LOST IN TRENCH, OR OTHERWISE HARMFULLY DISTURBED, THESE ITEMS WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
19. BROKEN CONCRETE STRUCTURES AND/OR CONCRETE MASONRY UNITS TO BE REPLACED AS PART OF THE WORK SHALL BE PREPARED AND DELIVERED TO OWNER SITE LOCATIONS BY THE CONTRACTOR AS DESCRIBED WITHIN SECTION 212 OF THE SUPPLEMENTAL TECHNICAL SPECIFICATIONS.
20. WHEN SO CALLED ON THE PLANS, MANHOLE REHABILITATION FOR LINES TO BE SLIPLINED SHALL INCLUDE THE WORK DESCRIBED IN THE SUPPLEMENTAL TECHNICAL SPECIFICATIONS OF THE CONTRACT DOCUMENTS, SECTIONS 600.13 AND 552.076. WHEN SO CALLED ON THE PLANS, MANHOLE REHABILITATION ON LINES TO BE REPLACED SHALL BE THE WORK DESCRIBED IN SECTION 552.076 ONLY.
21. SAN CRISTOBAL, 15TH, CEDAR, AND PROSPECT STREETS SHALL BE OVERLAID WITH NEW SURFACE COURSE BY THE CITY TRANSPORTATION DEPARTMENT. IN THESE STREETS, THE CONTRACTOR SHALL REPLACE 4-6" ASPHALT CONCRETE BASE COURSE (WITH SUBGRADE) TO THE TOP OF THE EXISTING PAVEMENT SURFACE ON EITHER SIDE OF THE TRENCH.
22. IN FREDERICK COURT, THE ENGINEER SHALL DETERMINE WHETHER THERE WILL BE FULL WIDTH OR TRENCH ONLY PAVEMENT REMOVAL AND REPLACEMENT AFTER THE PROJECT HAS BEEN AWARDED.
23. IF, AFTER LAYING BASE COURSE, ALL OR A PORTION OF THE WORK SHOULD FAIL TESTING AND REQUIRE EXCAVATION, THE REMOVAL AND REPLACEMENT OF THE BASE COURSE (AND ALL OTHER NECESSARY WORK TO REPAIR DEFECTIVE WORK AS SET FORTH IN THE CONTRACT DOCUMENTS) SHALL BE AT THE CONTRACTOR'S EXPENSE.
24. 20" STEEL WATER LINE IN ESPANOLA STREET SHALL BE ABANDONED IN PLACE OR REMOVED AT THE CONTRACTOR'S OPTION; HOWEVER, REMOVING THE PIPE SHALL BE INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT WILL BE MADE. IF ABANDONED IN PLACE, PAYMENT WILL BE MADE FOR FILLING THE ABANDONED PIPE WITH A SAND SLURRY.

MARCH 1983

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

REV.	SHEETS	CITY ENGR.	DATE	USER DEPT.	DATE	USER DEPT.	DATE
APPROVAL OF REVISIONS							

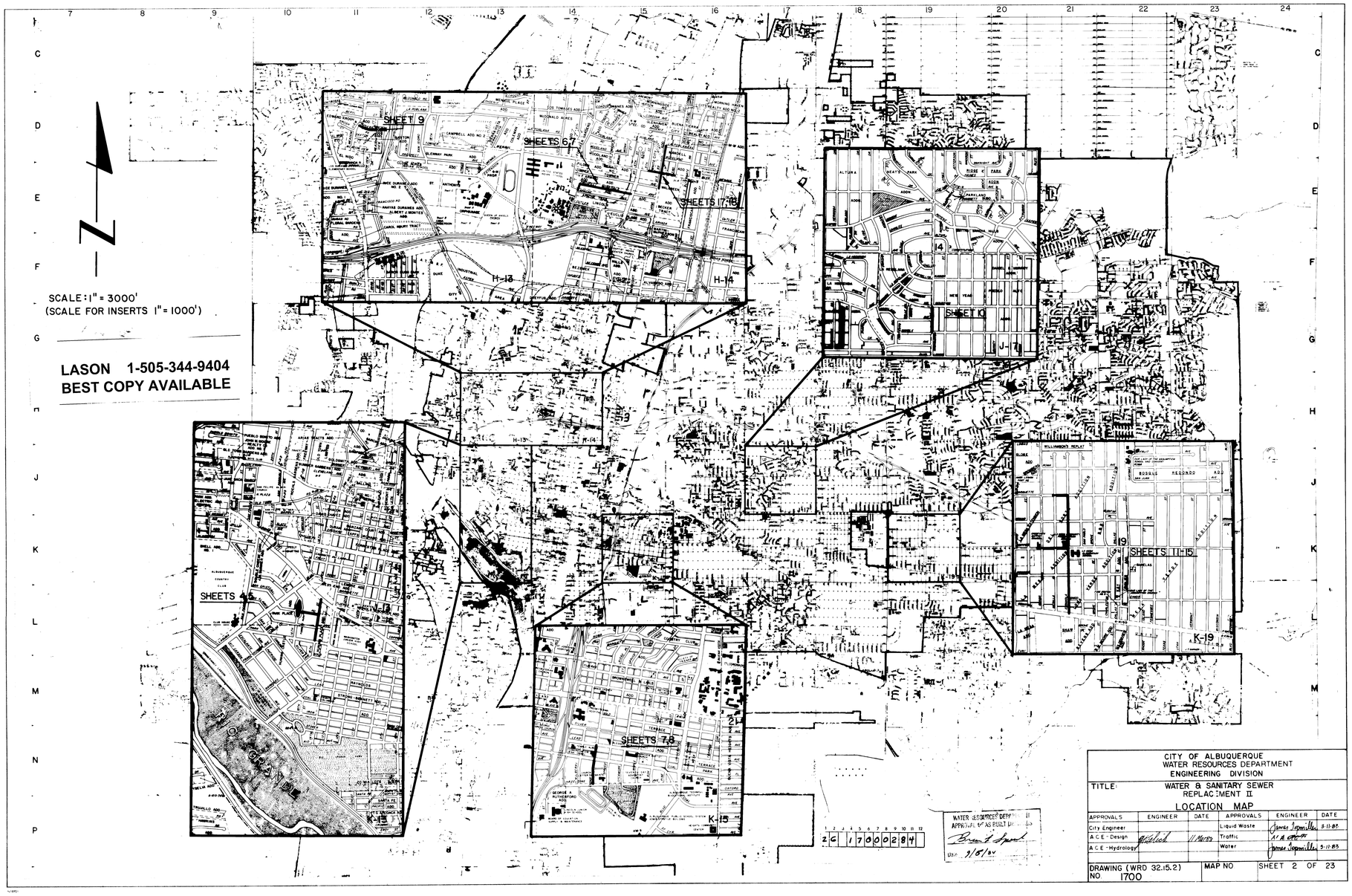
APPROVED FOR CONSTRUCTION
Harold Dickerson Jr. 3/15/83
W.R.D. CHIEF ENGINEER

APPROVED FOR CONSTRUCTION
Not for GRD 3-18-83
CITY ENGINEER

PROJECT NO (WRD 82.15) 1700

SHEET 1 OF 23

CITY OF ALBUQUERQUE BERNALILLO COUNTY WATER RESOURCES DEPARTMENT



LASON 1-505-344-9404
BEST COPY AVAILABLE

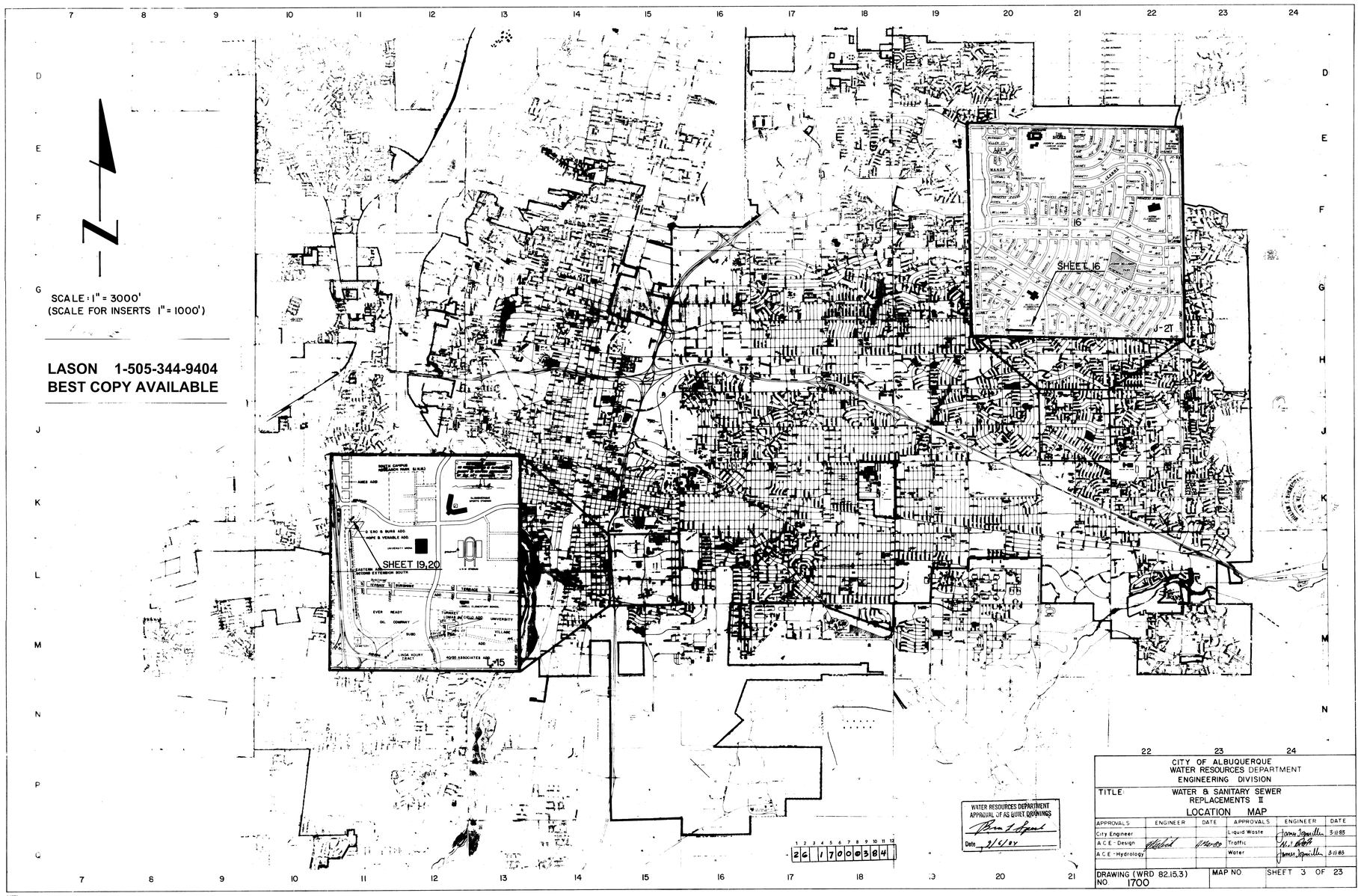
CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

TITLE: WATER & SANITARY SEWER REPLACEMENT II

LOCATION MAP

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	James Lopinillo	5-11-85
A.C.E.-Design	[illegible]	11/14/83	Traffic	[illegible]	
A.C.E.-Hydrology			Water	James Lopinillo	5-11-85

DRAWING (WRD 32.15.2) NO. 1700 | MAP NO | SHEET 2 OF 23



CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

TITLE: WATER & SANITARY SEWER REPLACEMENTS II
LOCATION MAP

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	James Trujillo	5-11-85
A.C.E.-Design	[illegible]	11 Mar 85	Traffic	[illegible]	
A.C.E.-Hydrology			Water	James Trujillo	5-11-85

DRAWING (WRD 82.15.3) NO. 1700 | MAP NO. | SHEET 3 OF 23

LASON 1-505-344-9404
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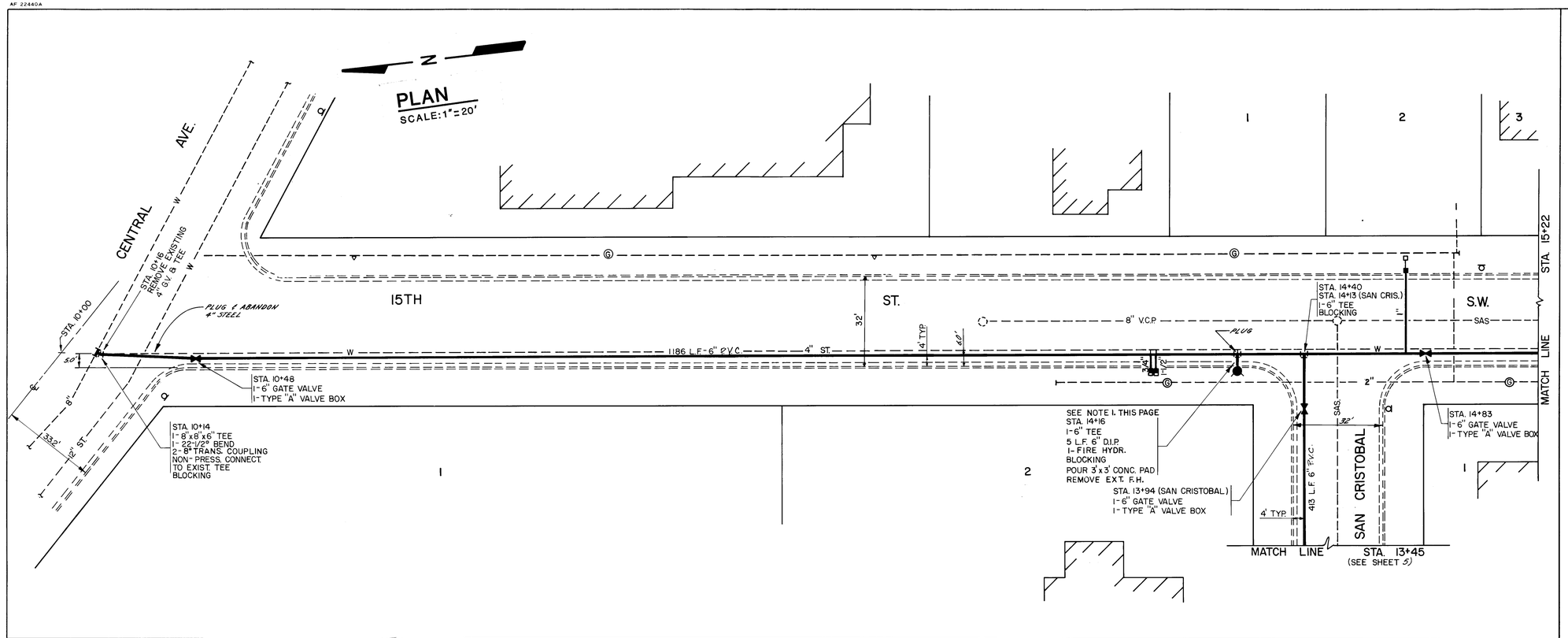
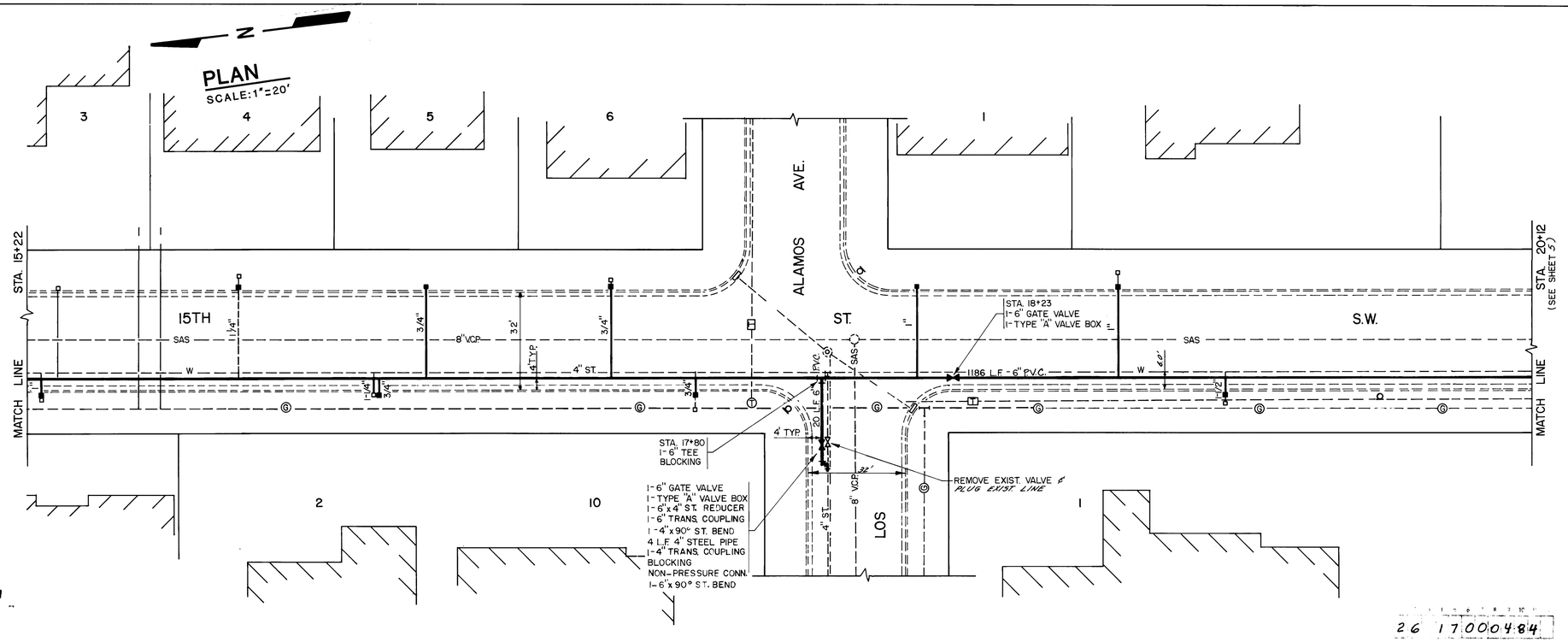




NOTE:

If the existing hydrant is working properly (Determined by Water Systems Div.) And has a mechanical joint shoe, it will be salvaged in place instead of installing a new hydrant.

SURVEY LINE IS NEW WATERLINE TYPICAL ALL SHEETS.

AS BUILT INFORMATION

CONTRACTOR		
WORK STAKED BY		DATE
INSPECTED BY		DATE 10/14/83
ACCEPTANCE BY	W.R.D.	DATE
FIELD LOCATION BY	W.R.D.	DATE
DRAWINGS CORRECTED BY	W.R.D.	DATE

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

B.M. - 6-K13

ELEV. - 4956.95 FT.

LOCATION - APROX. 23' N.E. OF THE INTERSECTION OF ALCALDE PL. & TINGLEY DR. S.W.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

WILLIAM T. JIMENEZ, NEW MEXICO, 5851, REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISIONS	BY

REMARKS

DESIGN

DESIGNED BY	W.F.Z.	DATE SEPT. 82
DRAWN BY	T.Y.A.	DATE SEPT. 82
CHECKED BY	J.E.R.	DATE SEPT. 82

WATER RESOURCES DEPARTMENT APPROVAL TO BID SHEET OR WORK

Date 1-5-84

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

TITLE: WATER & SANITARY SEWER REPLACEMENTS II

15TH ST. S.W. & SAN CRISTOBAL RD. S.W.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	James Jopmillr	3-16-83
A.C.E.-Design	[illegible]	11 Mar 83	Traffic	N.A. [illegible]	
A.C.E.-Hydrology			Water	James Jopmillr	3-11-83

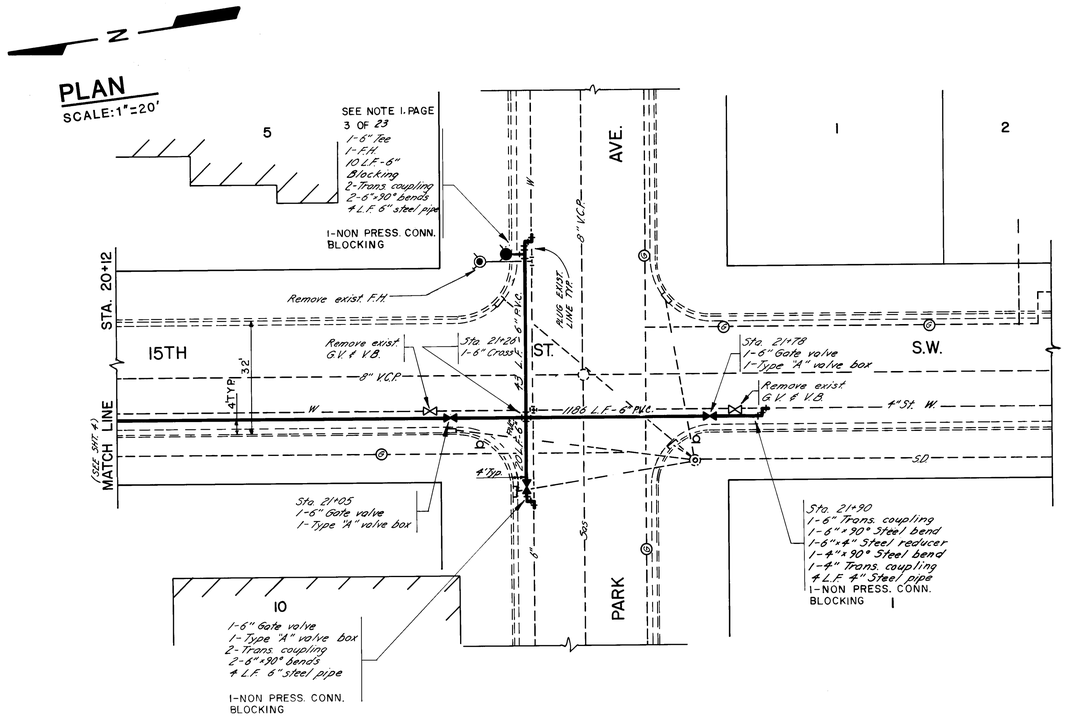
DRAWING NO. (WRD 82.15.4) 1700

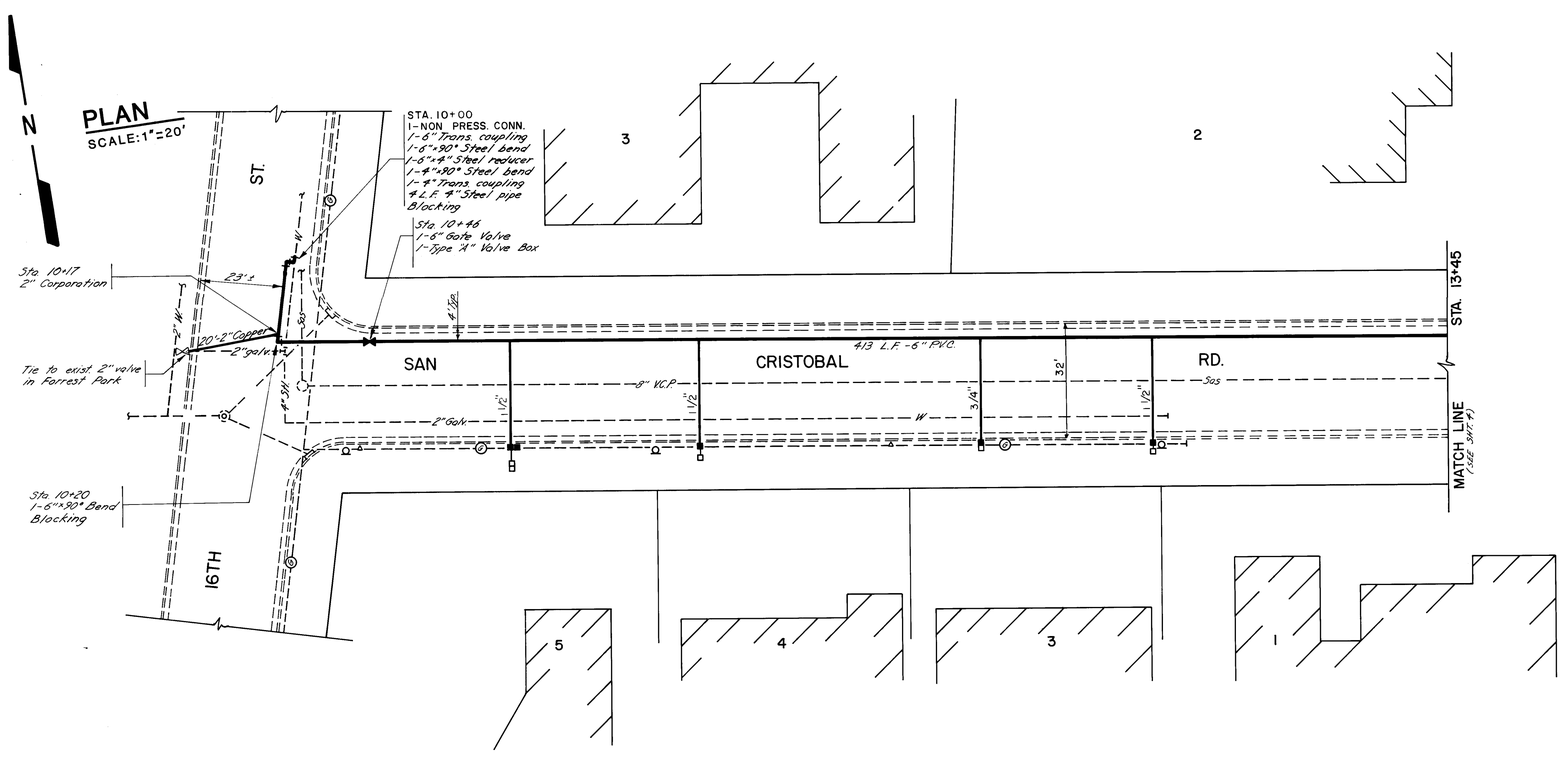
MAP NO. J13

SHEET 4 OF 23

26 17000484

AF 22440A





26 17000584

Water Resources Dept.

Brian L. Spurlock

2/4/83

AS BUILT INFORMATION	
CONTRACTOR	COOK CONST. CO.
WORK STAKED BY	COOK — DATE
INSPECTOR'S ACCEPTANCE BY	WRD — DATE 12/14/83
FIELD VERIFICATION BY	WRD — DATE
DRAWINGS CORRECTED BY	WRD — DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS
B.M. : 6-K13
ELEV. - 4956.95 FT.
LOCATION - APPROX. 23' N.E. OF THE INTERSECTION OF
ALCALDE PL. & TINGLEY DR. S.W.

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

MARTIN P. ZIMMERMAN — NEW MEXICO — 8851 — REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN		
DESIGNED BY	W.F.Z.	DATE SEPT. 82
DRAWN BY	T.Y.A.	DATE SEPT 82
CHECKED BY	J.E.R.	DATE SEPT. 82

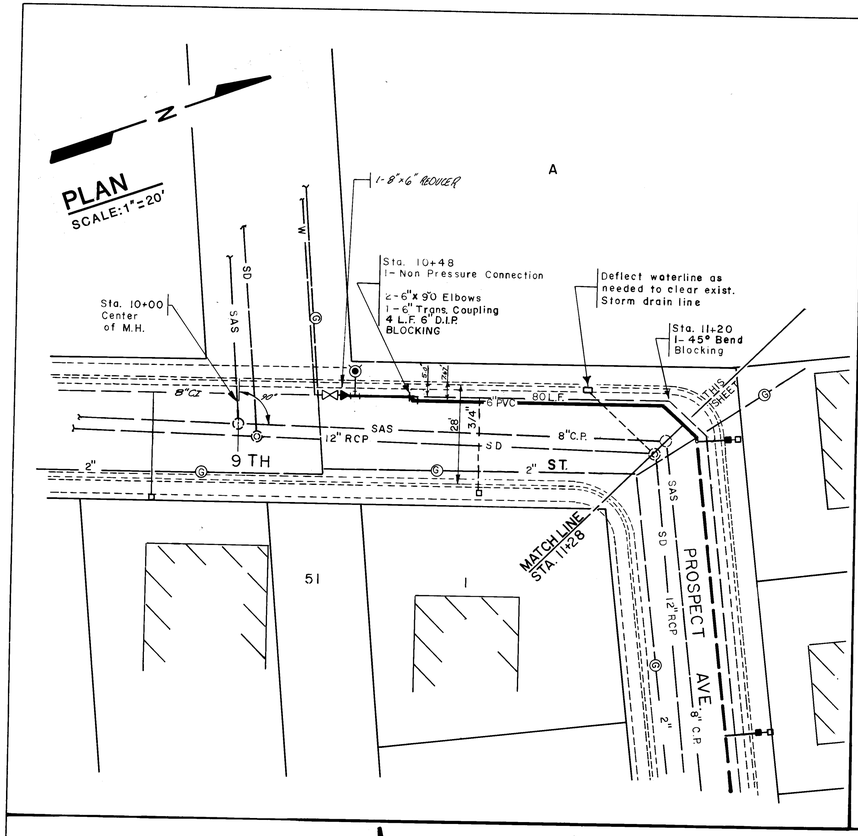
CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

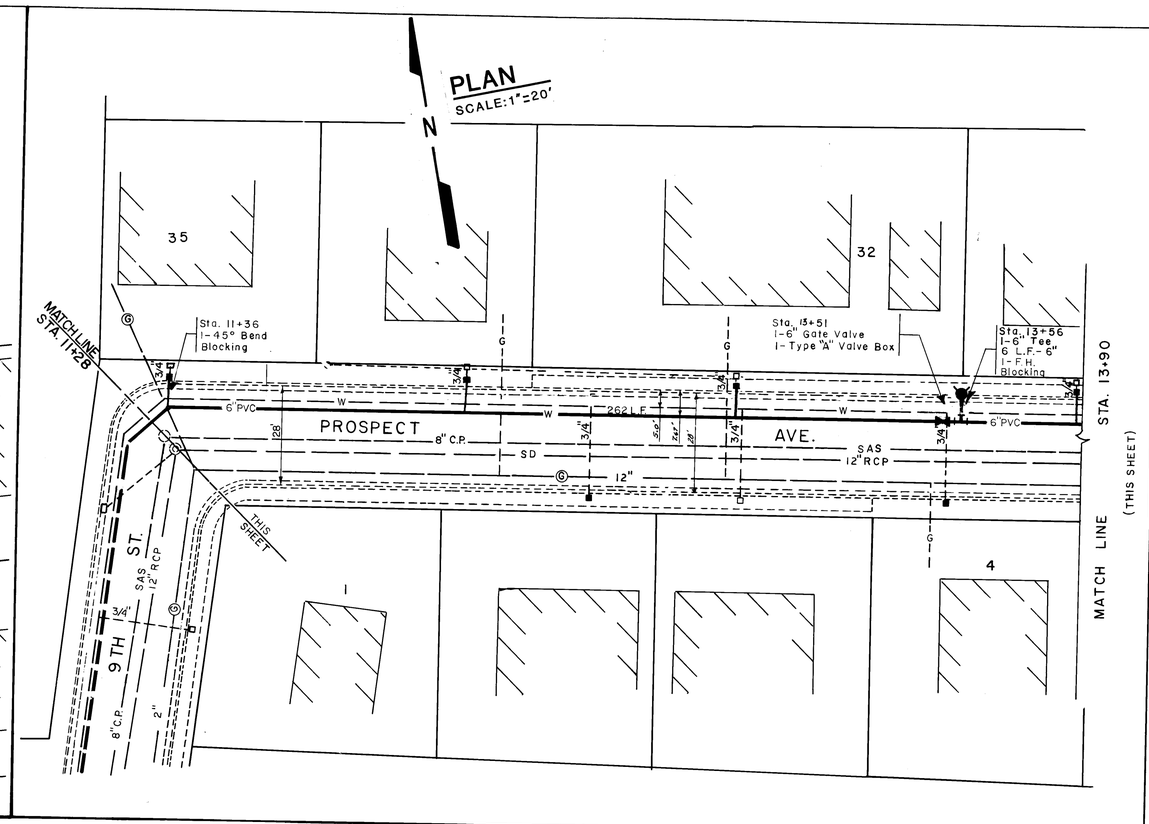
TITLE: WATER & SANITARY SEWER REPLACEMENTS II
15TH ST. S.W. & SAN CRISTOBAL RD. S.W.

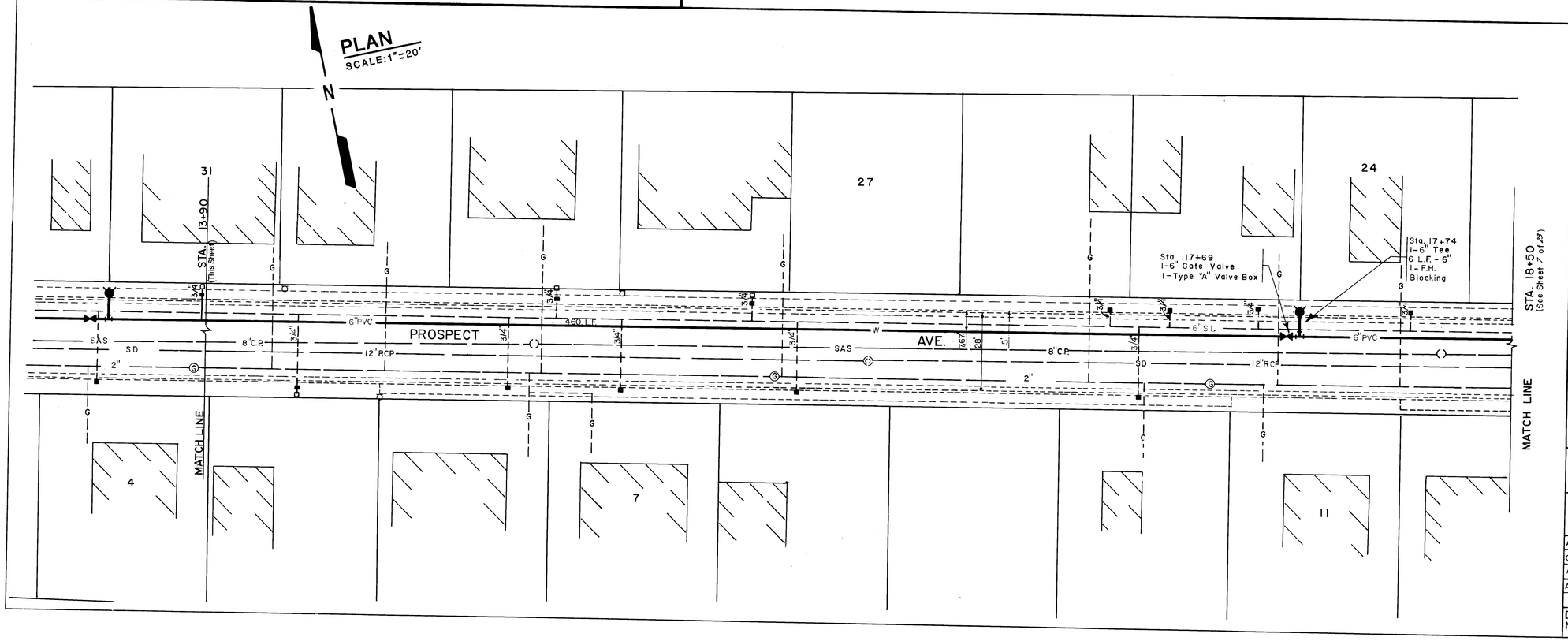
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	James Jopmillr	3-11-83
A.C.E.-Design	[illegible]	[illegible]	Traffic	N.A. [illegible]	
A.C.E.-Hydrology			Water	James Jopmillr	3-11-83

DRAWING NO. (WRD 82.15.5) 1700 | MAP NO. J 13 | SHEET 5 OF 23

AF 22440A







26 17000684

Brian L. Speed
3/6/84

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

BENCH MARKS
4-H14 LOCATED AT THE INTERSECTION OF 4th & MENAUL N.W. IN THE SOUTHEAST QUADRANT OF THE INTERSECTION. A SQUARE, ☐, CHISELED ON TOP OF CONCRETE CURB AT THE S.S.E. CURB RETURN. ELEVATION 4965.488

AS BUILT INFORMATION		
CONTRACTOR	COOK CONST. CO.	
WORK STAKED BY	COOK	DATE
INSPECTORS ACCEPTANCE BY	WRD	DATE 1-14-83
FIELD VERIFICATION BY	WRD	DATE
DRAWINGS CORRECTED BY	WRD	DATE
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

ENGINEER'S SEAL

WILLIAM T. ZIMMERMAN
NEW MEXICO
1951
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
REVISIONS			

DESIGN		
DESIGNED BY	JER	DATE SEPT. 82
DRAWN BY	JT	DATE SEPT. 82
CHECKED BY	JER	DATE SEPT. 82

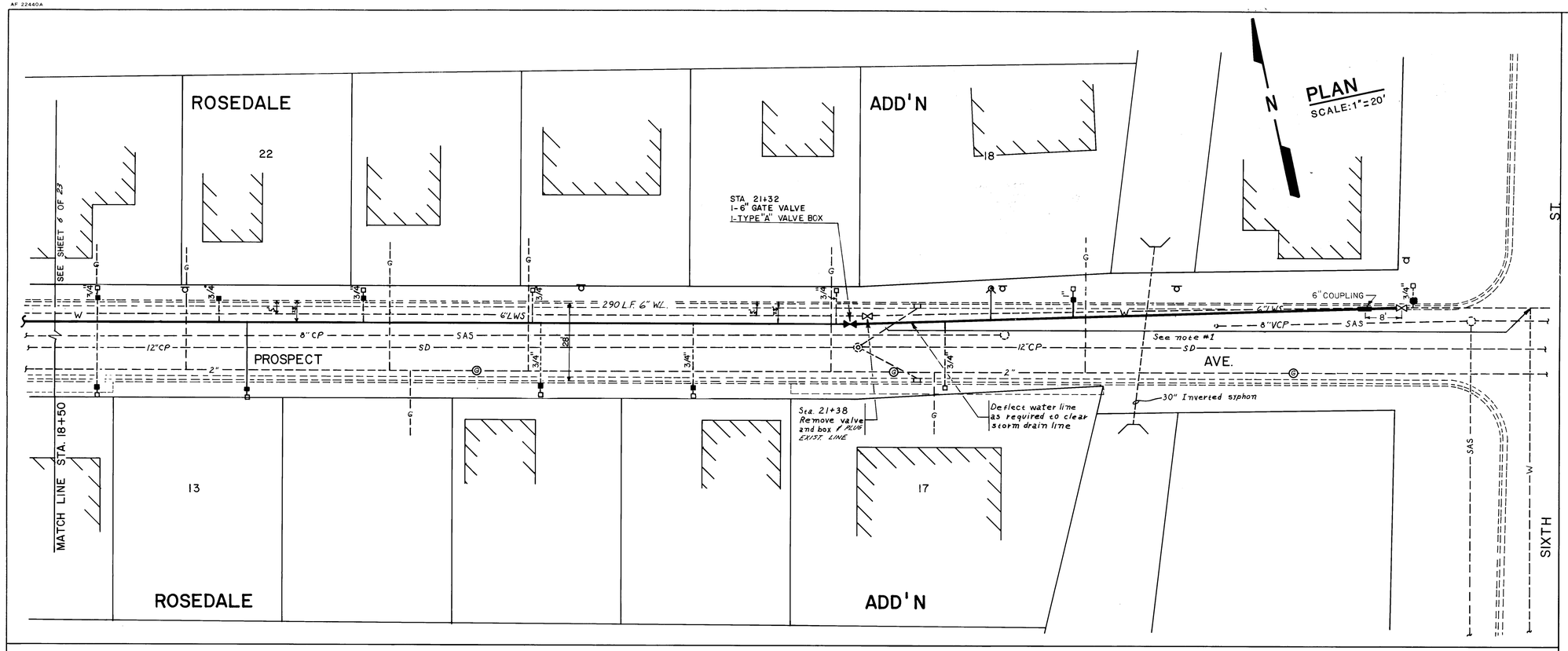
CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

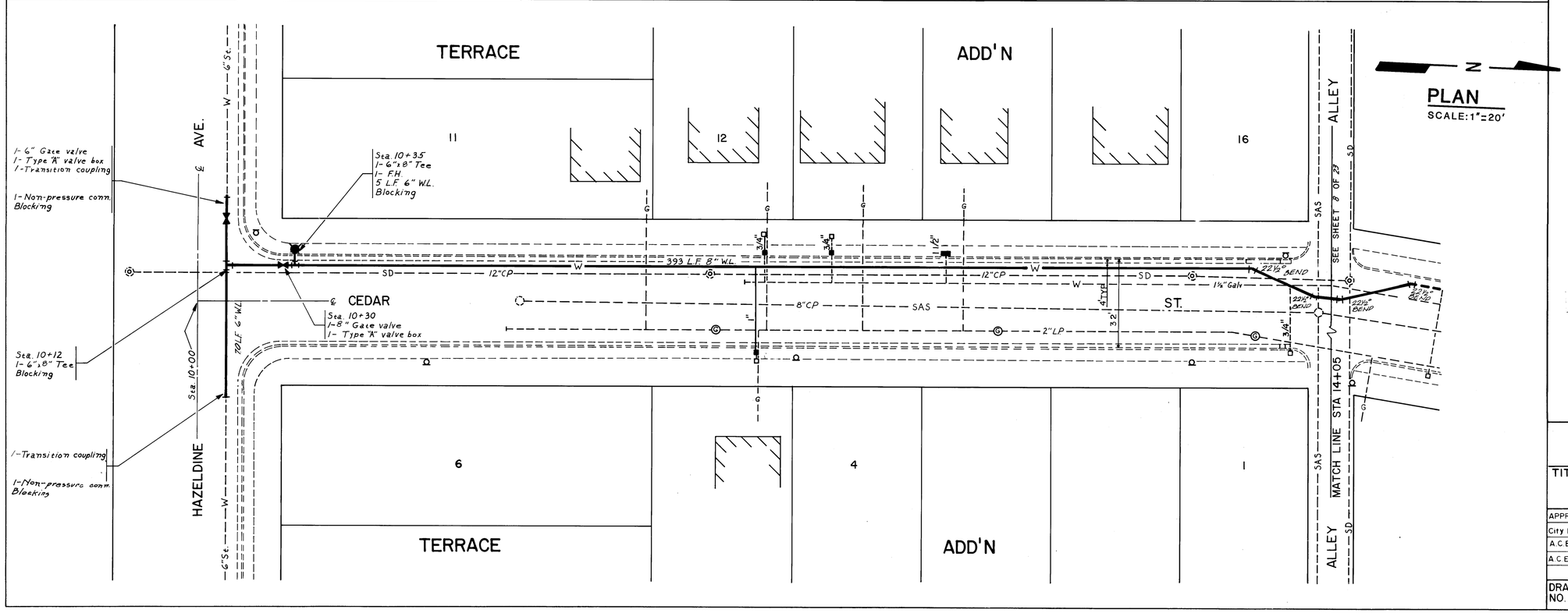
TITLE: WATER & SANITARY SEWER REPLACEMENTS II
PROSPECT AVE.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	James Ingmire	3-11-83
A.C.E.-Design	[illegible]	11/16/83	Traffic	N. A. [illegible]	
A.C.E.-Hydrology			Water	James Ingmire	3-11-83

DRAWING (WRD 82.15.6) NO. 1700 | MAP NO. H 14 | SHEET 6 OF 23

AF 22440A





NOTES

1. If field verification indicates steel, replace as necessary to 6th St. intersection.

2.6 1700 07 8 4

WATER RESOURCES DEPARTMENT
APPROVAL OF AS BUILT DRAWINGS
Date 7/5/88

AS BUILT INFORMATION	
CONTRACTOR	COOK CONST. CO
WORK STAKED BY	COOK
DATE	8/17/83
INSPECTED BY	WRD
DATE	8/24/83
ACCEPTANCE BY	WRD
DATE	
FIELD VERIFICATION BY	WRD
DATE	
DRAWINGS CORRECTED BY	WRD
DATE	

BENCH MARKS

PROSPECT AVE. 4-H14, LOCATED AT 4th & MENAUL. IN THE S.E. QUADRANT OF THE INTERSECTION. A SQUARE CHISELED ON TOP OF CURB AT THE S.SE CURB RETURN. EL. 4965.49

CEDAR ST. I-25-27, LOCATED ON THE SE. CORNER OF THE I-25 NORTHBOUND BRIDGE OVER LEAD AVE. A NMSHD BRASS CAP ON A CONCRETE POST. EL. 5067.45

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE

NO.

ENGINEER'S SEAL

BENJAMIN J. ZIMMERMAN — NEW MEXICO — REGISTERED PROFESSIONAL ENGINEER — 1896

NO.	DATE	REMARKS	BY

REVISIONS

DESIGNED BY	J. ROCHA	DATE SEPT. '82
DRAWN BY	J. ROCHA	DATE SEPT. '82
CHECKED BY	B. ZIMMERMAN	DATE SEPT. '82

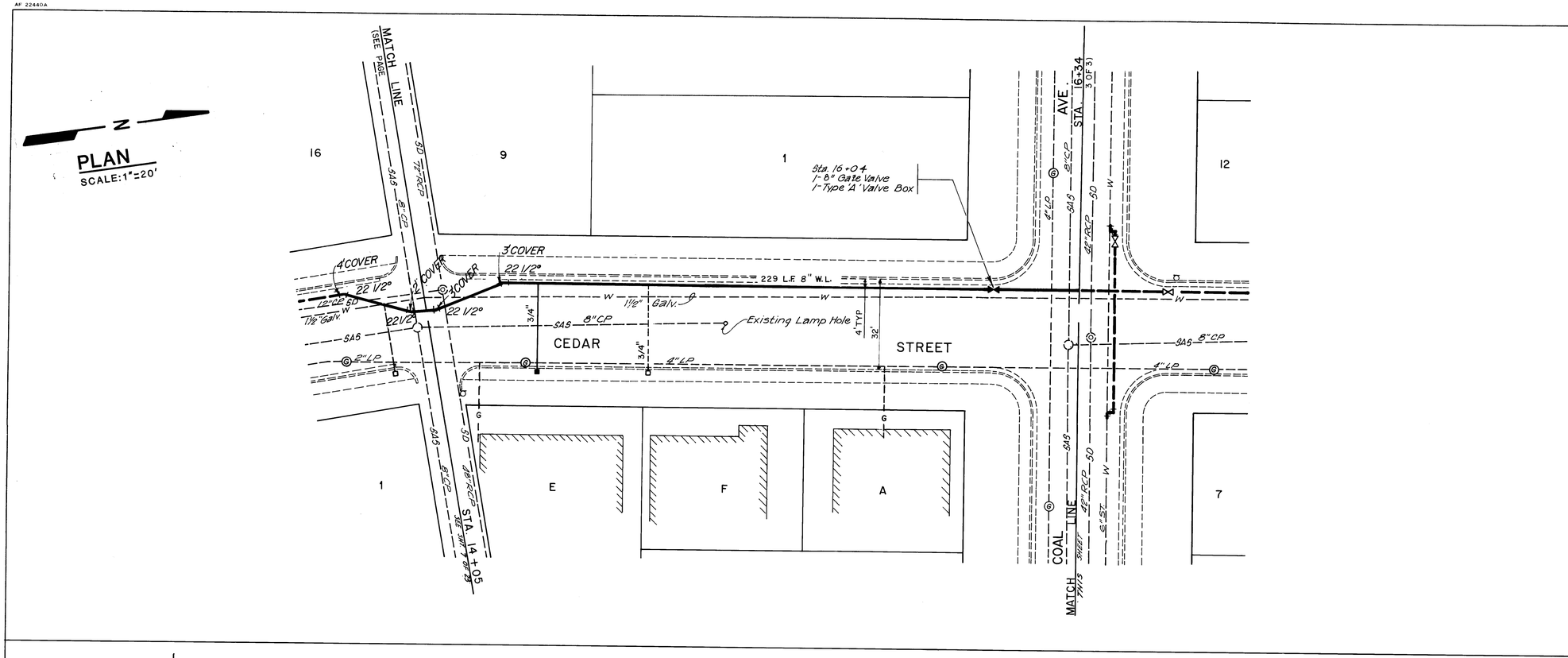
CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

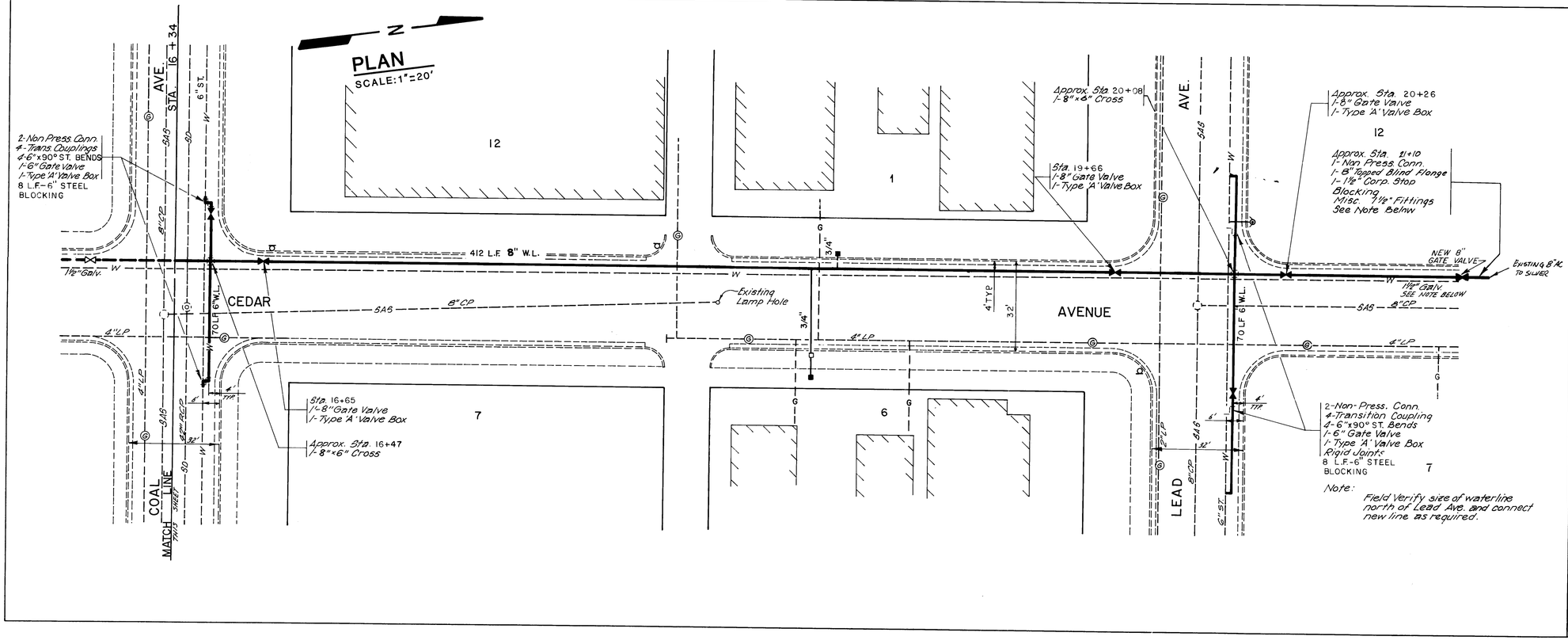
TITLE: WATER & SANITARY SEWER REPLACEMENTS II
PROSPECT AVE. CEDAR ST.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	James Jaramillo	3-11-83
A.C.E.-Design	J. Kellah		Traffic	N.A. Dale	
A.C.E.-Hydrology			Water	James Jaramillo	3-11-83

DRAWING (WRD 82,15.7) NO. 1700 — MAP NO. H-14, K-15 — SHEET 7 OF 23

AF 22440A





2.6 17000884

3/4/84

AS BUILT INFORMATION

CONTRACTOR	COOK COAST CO	
WORK STAKED BY	COOK	DATE
INSPECTOR'S ACCEPTANCE BY	WRD	12/1/83 DATE
FIELD VERIFICATION BY	WRD	DATE
DRAWINGS CORRECTED BY	WRD	DATE

MICRO-FILM INFORMATION

RECORDED BY DATE

NO. DATE

BENCH MARKS

1-25-27 LOCATE ON S.E. CORNER OF THE I-25 NORTH-BOUND BRIDGE OVER LEAD AVE. THE STATION MARK IS A STANDARD NMSHD BRASS TABLET SET ON TOP OF A CONCRETE POST.

ELEVATION 5067.45

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

WILLIAM F. ZIMMERMAN — NEW MEXICO — 1981 — REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN			
DESIGNED BY	J.E. ROCHA	DATE	SEPT. '82
DRAWN BY	J.E. ROCHA	DATE	SEPT. '82
CHECKED BY	W. ZIMMERMAN	DATE	SEPT. '82

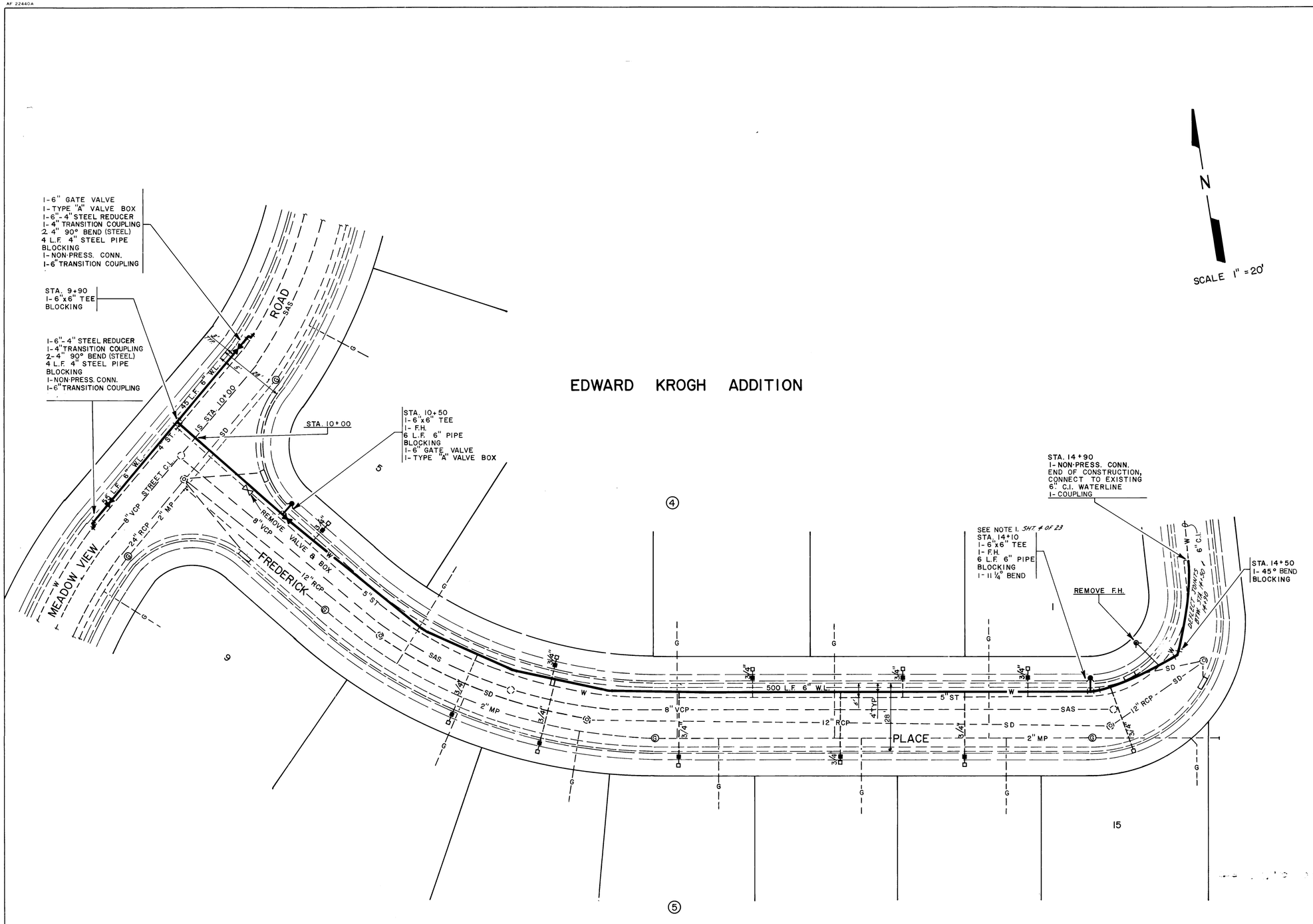
CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

TITLE: WATER AND SANITARY SEWER REPLACEMENTS II
CEDAR STREET

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	James Dopmulle	3-11-83
A.C.E.-Design	[illegible]	11 Mar 83	Traffic	N.A. [illegible]	
A.C.E.-Hydrology			Water	James Dopmulle	3-11-83

DRAWING NO.	MAP NO.	SHEET
(WRD-82.15.8) 1700	K15	8 OF 23

AF 22440A



Full width (curb to curb) or trench only pavement removal and replacement for Frederick Place shall be determined by the engineer.

26 17000984

Date 2/5/84

AS BUILT INFORMATION	
CONTRACTOR	COX CONST. CO.
WORK STAKED BY	COOK
INSPECTED BY	DATE
ACCEPTANCE BY	WRD DATE 7/1/83
FIELD VERIFICATION BY	WRD DATE
DRAWINGS CORRECTED BY	WRD DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS
3-H13 LOCATED AT RIO GRANDE AND
EL NIDO CT. ON THE S.S.E. CURB RETURN
A SQUARE CHISELED ON TOP OF CURB
ELEV. 4963.01

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

WILLIAM E. ZIMMERMAN
NEW MEXICO
6861
REGISTERED PROFESSIONAL ENGINEER

REVISIONS			
NO.	DATE	REMARKS	BY

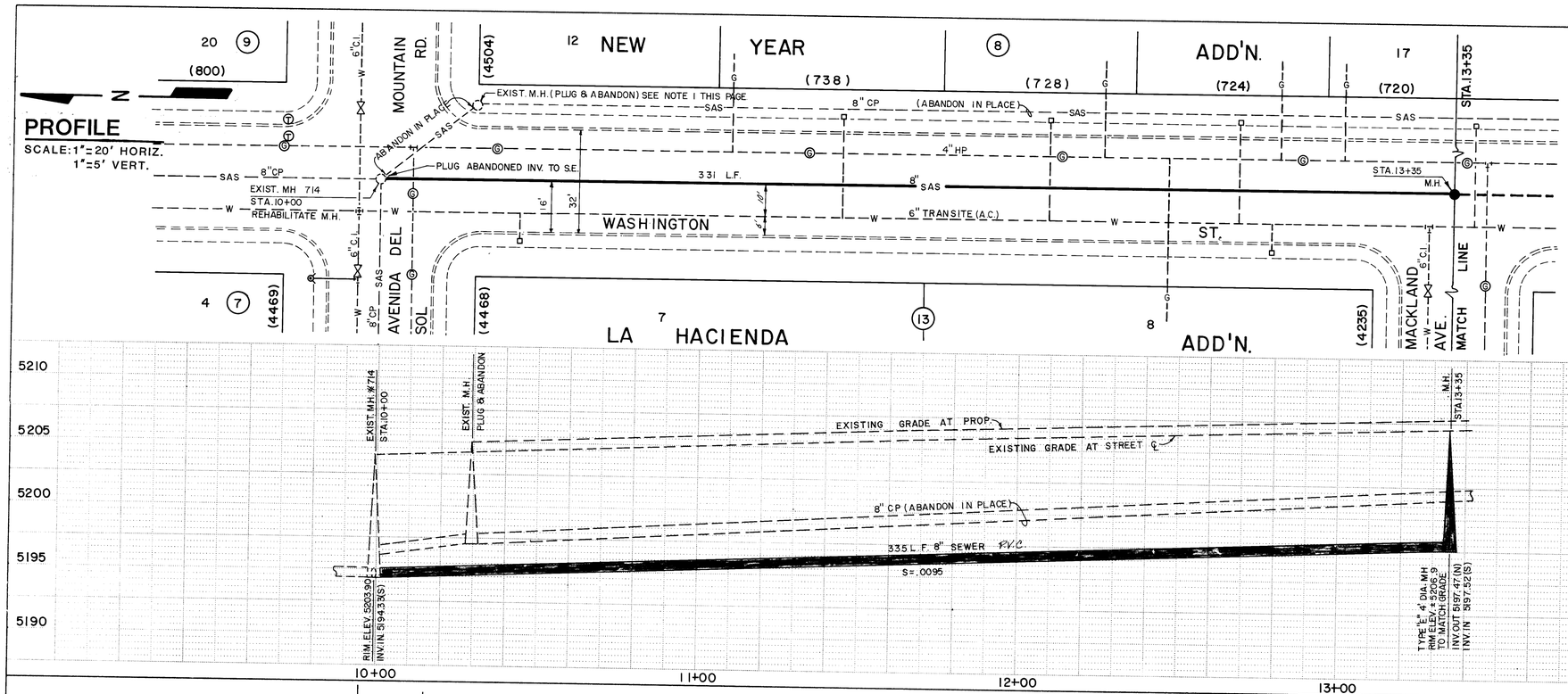
DESIGN		
DESIGNED BY	J. ROCHA	DATE SEPT. '82
DRAWN BY	B. ZIMMERMAN	DATE SEPT. '82
CHECKED BY	B. ZIMMERMAN	DATE SEPT. '82

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

TITLE: WATER & SANITARY SEWER REPLACEMENTS II
FREDERICK PLACE N.W.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	James Trujillo	3-11-83
A.C.E.-Design	[illegible]	11-11-83	Traffic	N.D. [illegible]	
A.C.E.-Hydrology			Water	James Trujillo	3-11-83

DRAWING (WRD 82.15.9) NO. 1700	MAP NO. H-13	SHEET 9 OF 23



NOTES:

1) MANHOLES TO BE ABANDONED IN PLACE SHALL HAVE THE FOLLOWING WORK DONE:

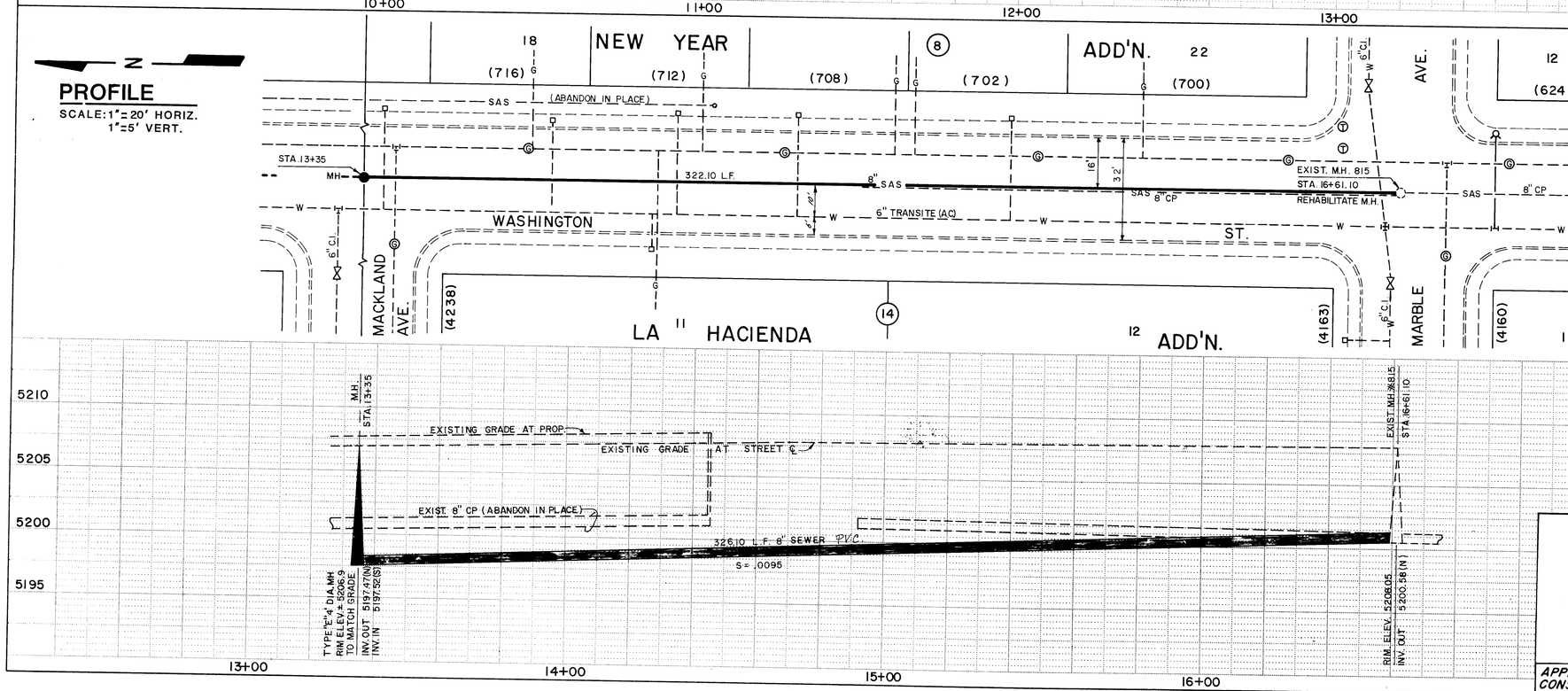
- ALL INGOING AND OUTGOING LINES SHALL BE PLUGGED WITH 12" CONCRETE MORTAR.

  MANHOLE LID AND FRAME SHALL BE RETURNED TO CITY YARDS.

- MANHOLE BOTTOM WILL BE PULVERIZED AND MANHOLE FILLED TO RIM WITH CEMENT TREATED BASE MATERIAL.

2) REMOVAL OF EXISTING SANITARY SEWER LINES AND MANHOLES TO PLACE NEW MAIN SHALL BE INCIDENTIAL TO THE PROJECT.

3) SANITARY SEWER SERVICES SHALL BE RECONNECTED FROM THE ABANDONED SEWER LINE TO THE NEW LINE.



1700 / 084

AS BUILT INFORMATION

CONTRACTOR COOK CONST. CO.
WORK STAKED BY COOK
INSPECTOR'S ACCEPTANCE BY WRD DATE 8/1/83
FIELD VERIFICATION BY WRD DATE
DRAWINGS CORRECTED BY WRD DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

2-J17 LOCATED AT THE INTERSECTION OF WASHINGTON AND LOMAS NE. IN THE NW QUADRANT OF THE INTERSECTION A SQUARE, CHISELED ON TOP OF CURB AT THE WNW CURB RETURN. 5207.84

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

REFERENCES

MAP NO. J-17
EST. NO.
W.O. NO.

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY	MT	DATE SEPT 82
DRAWN BY	MT	DATE SEPT 82
CHECKED BY	JER	DATE SEPT 82

WILLIAM S. ZIMMERMAN
NEW MEXICO
8047
REGISTERED PROFESSIONAL ENGINEER

APPROVED FOR CONSTRUCTION

ENGINEER DATE

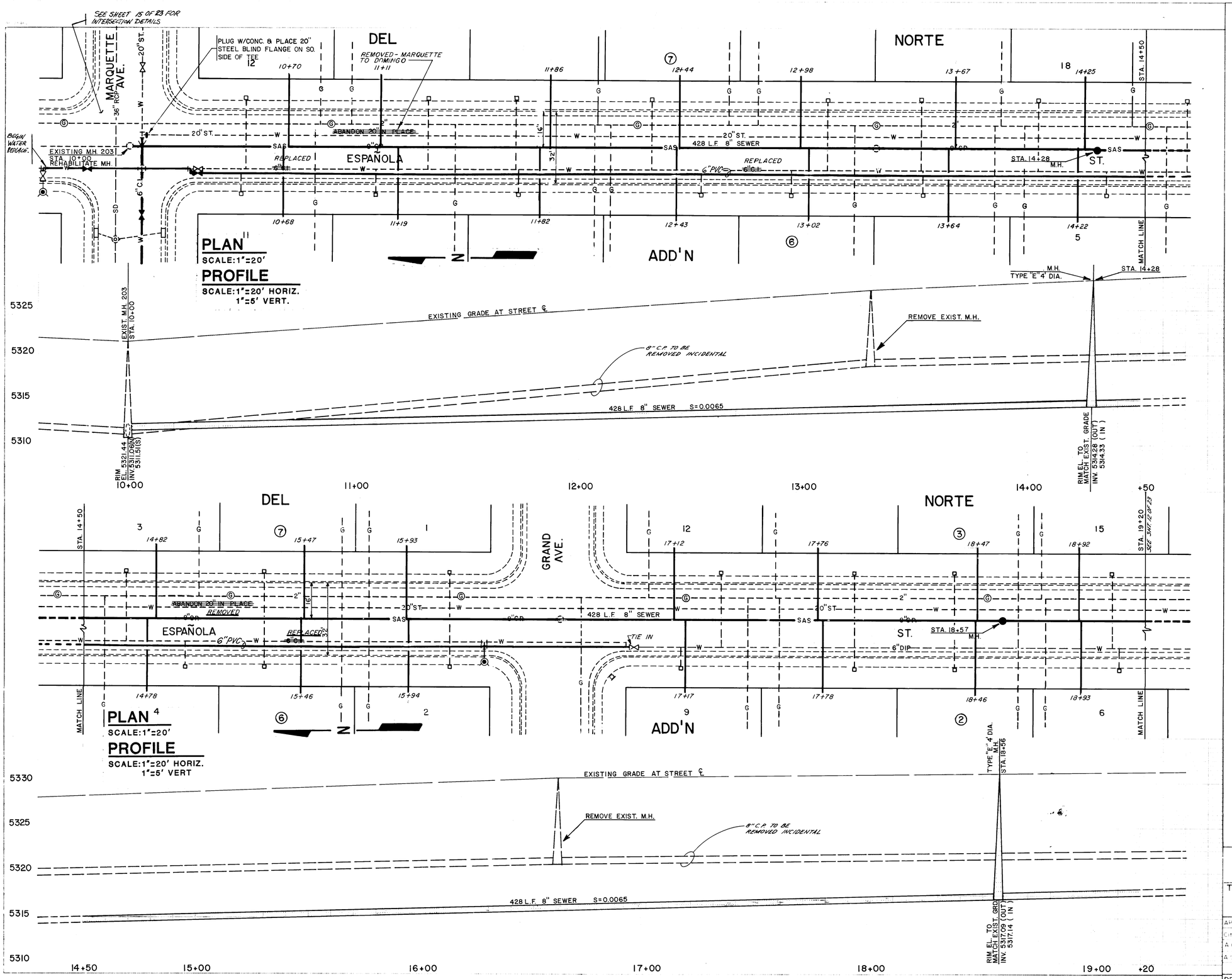
CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

TITLE: WATER AND SANITARY SEWER REPLACEMENTS II
WASHINGTON STREET

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	James Jaquillard	5-11-83
A.C.E.-Design	[illegible]	11-10-83	Traffic	N.R. [illegible]	
A.C.E.-Hydrology			Water	James Jaquillard	3-11-83

DRAWING (WRD 82.15.10) NO. 1700

SHEET 10 OF 23



AS BUILT INFORMATION

COOK CONST. CO.

WRD

WRD

MICRO-FILM INFORMATION

BENCH MARKS

7-K19 LOCATED AT THE INTERSECTION OF CENTRAL AND LOUISIANA ON THE EAST MEDIAN OF THE INTERSECTION 65.5' FROM THE ℄ OF LOUISIANA. ELEV. 5323.31

SURVEY INFORMATION

FIELD NOTES

NO. BY DATE

ENGINEER'S SEAL

REMARKS

REVISIONS

NO. DATE BY

DESIGN

J.E.R. DATE SEPT. 82

A.E.E. DATE SEPT. 82

W.F.Z. DATE SEPT. 82

2C 17004184

WATER RESOURCES DEPARTMENT

Date 7/5/84

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

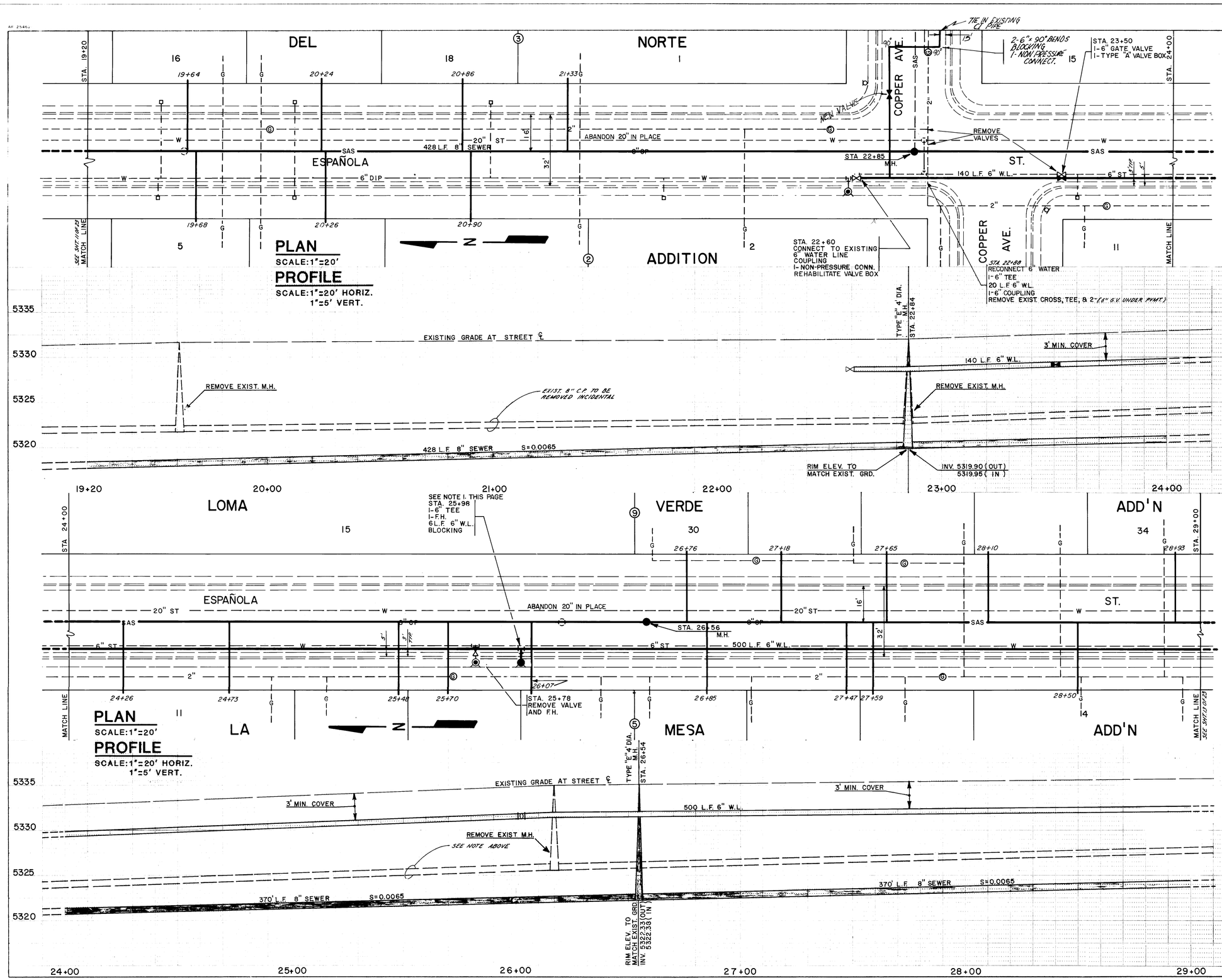
TITLE: WATER & SANITARY SEWER REPLACEMENTS II
ESPAÑOLA ST.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	James Jaquillard	3-11-83
A.C.E. Design	G. Kellick	11 Mar 83	Traffic		
A.C.E. Hydrology			Water	James Jaquillard	3-11-83

DRAWING NO. (WRD 82.15.11) 1700

MAP NO. K19

SHEET 11 OF 23



NOTES

1) IF THE HYDRANT AT STA. 25 + 78 HAS A MECHANICAL JOINT SHOE AND IS WORKING PROPERLY (AS DETERMINED BY LINE MAINTENANCE, WATER SYSTEMS DIVISION), THIS HYDRANT SHALL BE RELOCATED TO STA. 25 + 98 INSTEAD OF INSTALLING A NEW HYDRANT AS SHOWN.

AS BUILT INFORMATION

NORTH ARROW	COOK CONST. CO.	DATE
AS-BUILT BY	WRD	DATE 5/14/83
FIELD VERIFICATION BY	WRD	DATE
DRAWINGS CORRECTED BY	WRD	DATE
MICRO-FILM INFORMATION		DATE
RECORDED BY		DATE
NO.		

BENCH MARKS

7-K19 LOCATED AT THE INTERSECTION OF CENTRAL AND LOUISIANA ON THE EAST MEDIAN OF THE INTERSECTION 65.5' FROM THE ℄ OF LOUISIANA.
ELEV. 5323.31.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

WILLIAM F. TUMBLESON — NEW MEXICO (881) — REGISTERED PROFESSIONAL ENGINEER

REVISIONS

NO.	DATE	REMARKS	BY

		DATE
DESIGN		
DESIGNED BY	J.E.R.	SEPT. 82
DRAWN BY	J.E.R.	SEPT. 82
CHECKED BY	W.F.Z.	SEPT. 82

2 6 1 6 7 0 0 1 2 8 4

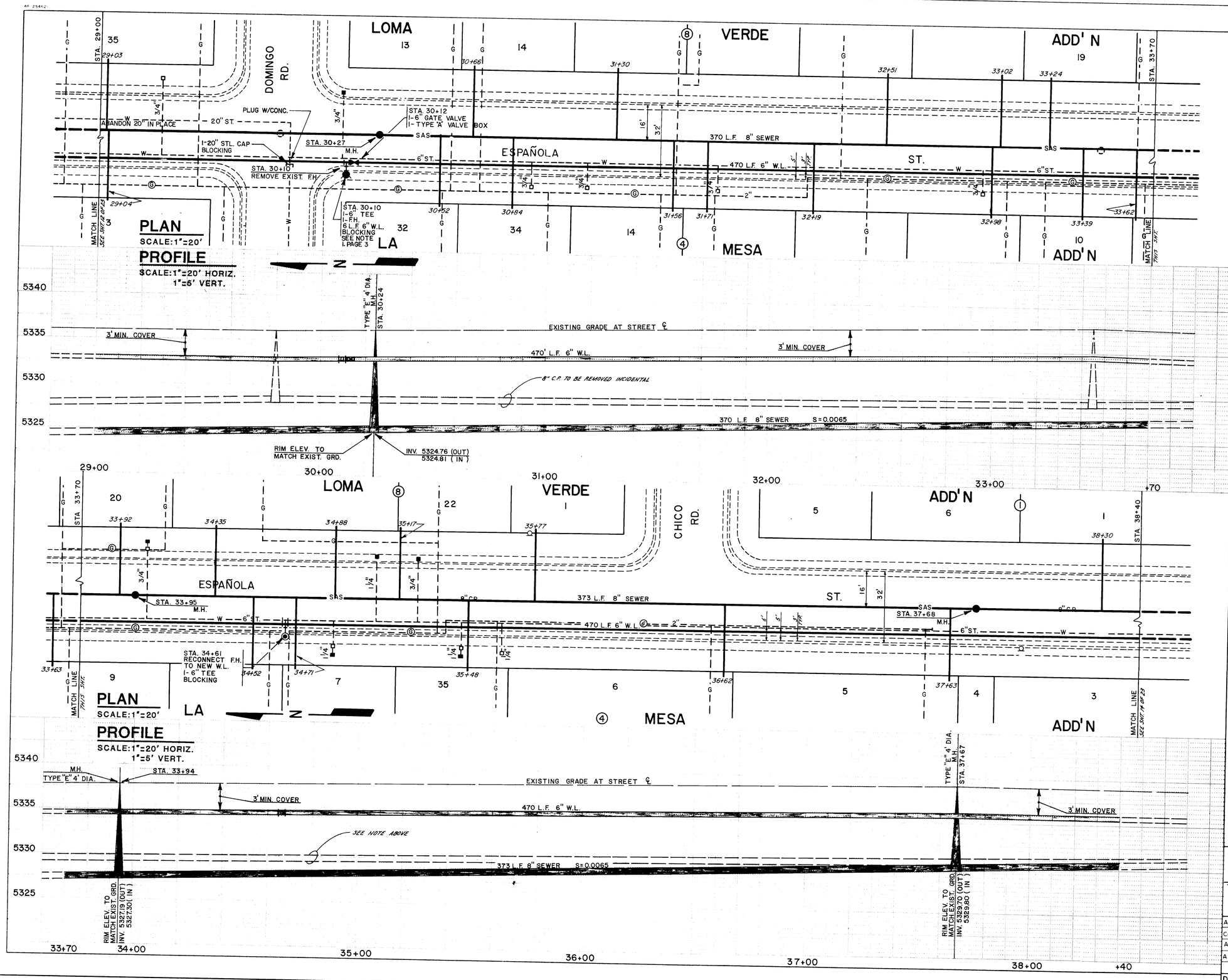
WATER RESOURCES DEPARTMENT
Date 7-5-84

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

TITLE: WATER & SANITARY SEWER REPLACEMENTS II ESPANOLA ST.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	James Jaquillard	8-11-83
A.C.E.-Design	[illegible]	11 Mar 83	Traffic	N.A. [illegible]	
A.C.E.-Hydrology			Water	James Jaquillard	8-11-83

DRAWING (WRD 82.15.12) NO. 1700 | MAP NO. K-19 | SHEET 12 OF 23



AS BUILT INFORMATION
CONTRACTOR COOK CONST. CO.
APPR. DATE
INSPECTED BY COOK DATE
ACCEPTANCE BY WRD DATE 10/19/83
FIELD VERIFICATION BY WRD DATE
DRAWINGS CORRECTED BY WRD DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
7-K19 LOCATED AT THE INTERSECTION OF CENTRAL AND LOUISIANA ON THE EAST MEDIAN OF THE INTERSECTION 65.5' FROM THE ℄ OF LOUISIANA
ELEV. 5323.31

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
WILLIAM F. ZIMMERMAN
NEW MEXICO
8851
REGISTERED PROFESSIONAL ENGINEER

REVISIONS
NO. DATE REMARKS BY
DESIGN
DESIGNED BY J.E.R. DATE SEPT. 82
DRAWN BY A.E.E. DATE SEPT. 82
CHECKED BY W.F.Z. DATE SEPT. 82

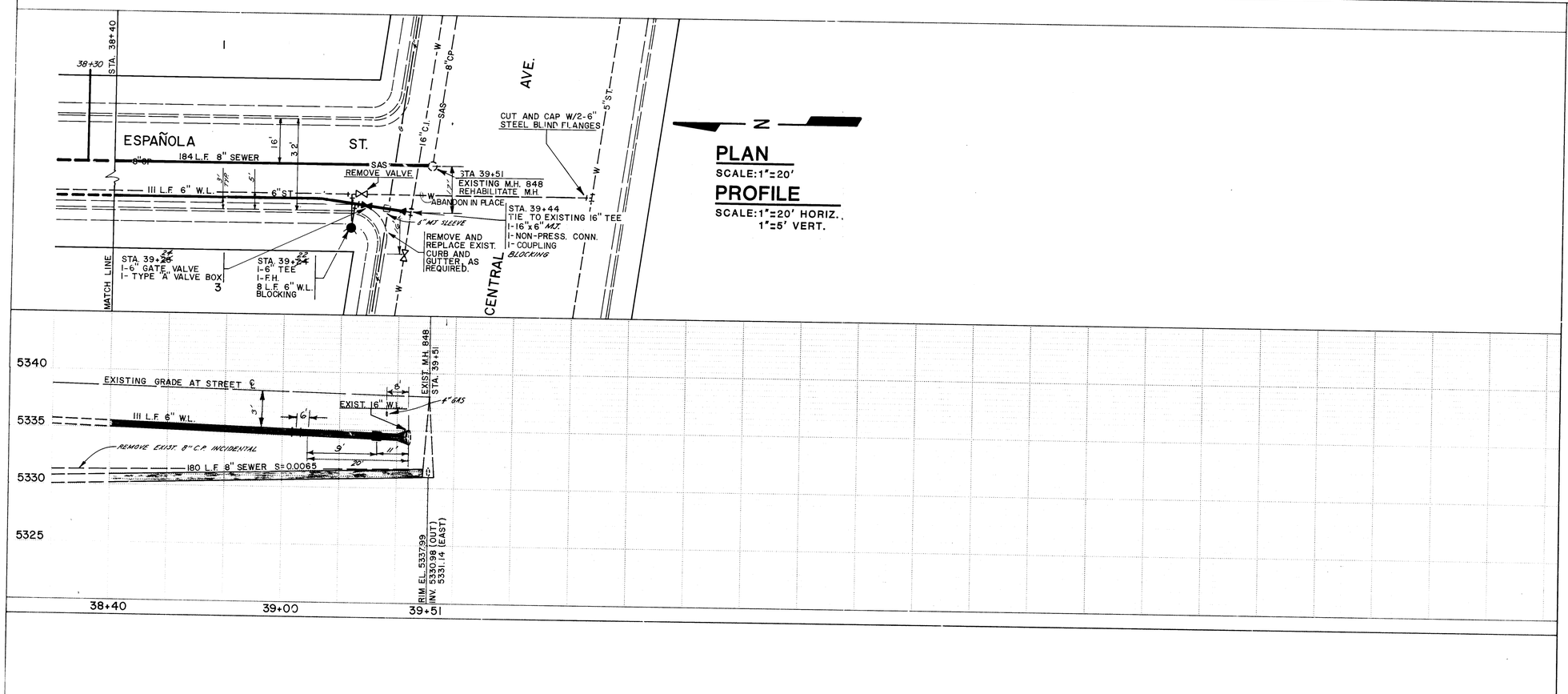
26 17001384
7/5/84

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

TITLE: WATER & SANITARY SEWER REPLACEMENTS II
ESPANOLA ST.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	James Topmiller	3-11-83
A C E - Design	[illegible]	11 Mar 83	Traffic	N.A. [illegible]	
A C E - Hydrology			Water	James Topmiller	3-11-83

DRAWING NO. (WRD 82.15.13) 1700
MAP NO. K19
SHEET 13 OF 23



26 1 001454

T. Brian L. Speed
9/6/83

AS BUILT INFORMATION
CONTRACTOR COOK CONST. CO.
WORK STAKED BY COOK DATE
INSPECTOR WRD DATE 26 1/2"x18"
PLOT TRACE BY WRD DATE
FIELD VERIFICATION BY WRD DATE
DRAWINGS CORRECTED BY WRD DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
7-K19 LOCATED AT THE INTERSECTION OF CENTRAL AND LOUISIANA ON THE EAST MEDIAN OF THE INTERSECTION 85.5' FROM THE ℄ OF LOUISIANA.
ELEV. 5323.31

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
WILLIAM E. ZIMMERMAN
STATE OF NEW MEXICO
6851
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	

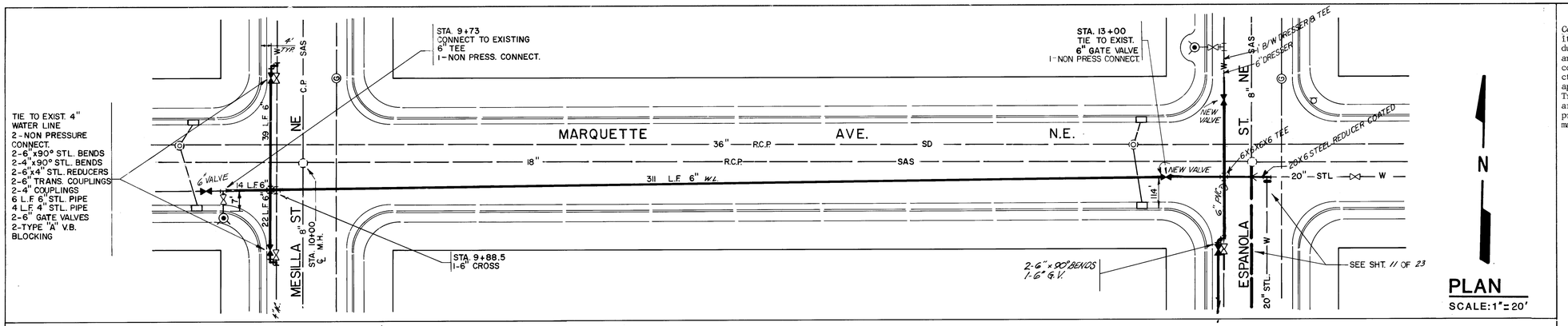
		DATE
DESIGNED BY	JER	SEPT. 82
DRAWN BY	JER	SEPT. 82
CHECKED BY	WFZ	SEPT. 82

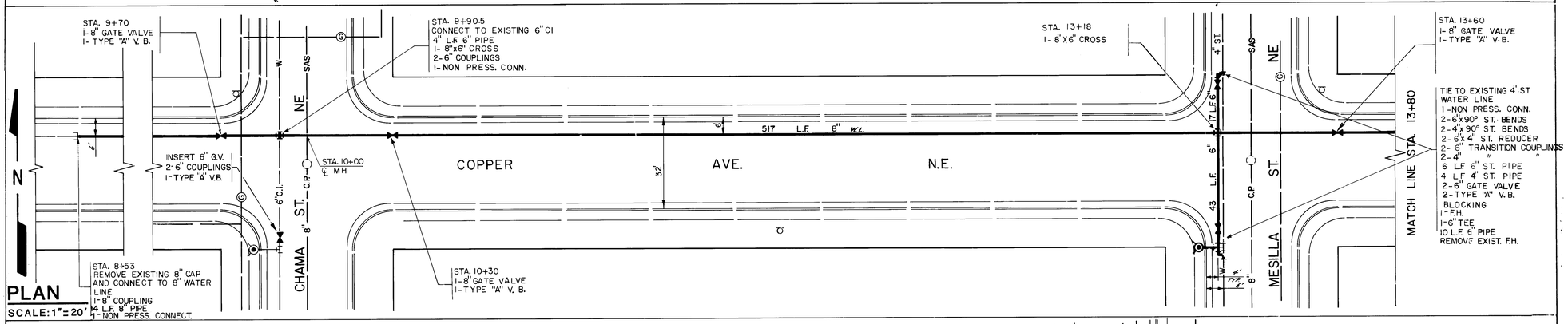
CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

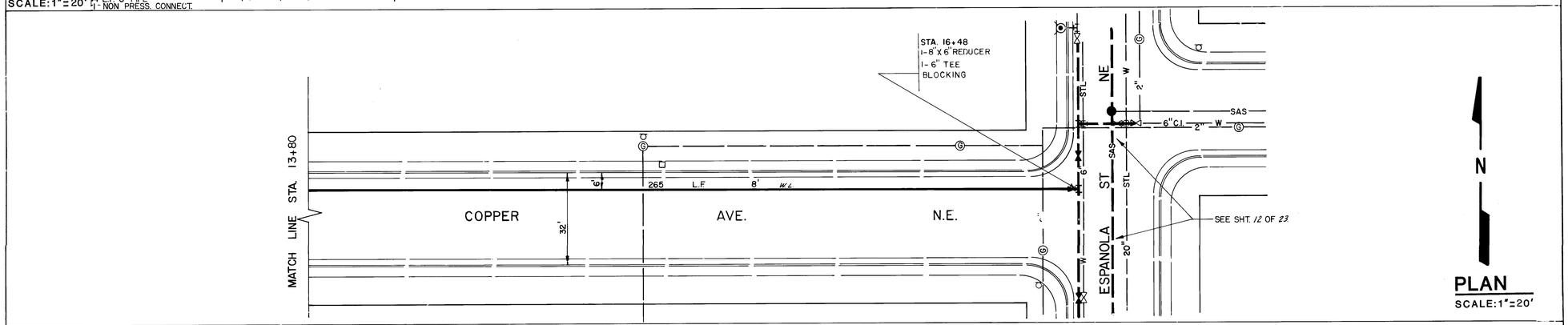
TITLE: WATER & SANITARY SEWER REPLACEMENTS II ESPANOLA ST.

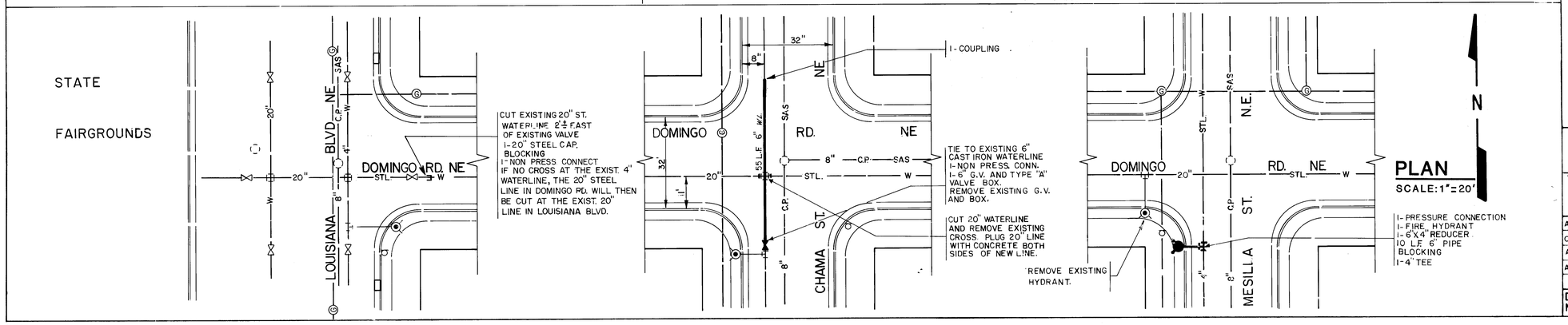
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	James Espinoza	3-11-83
A C E - Design	J. Kelsch	11 Mar 83	Traffic	N.A.	
A C E - Hydrology			Water	James Espinoza	3-11-83

DRAWING (WRD 82.15.14) NO. 1700 | MAP NO. K-19 | SHEET 14 OF 23









TRAFFIC CONTROL NOTE

Construction in the La Mesa and Del Norte additions will be subject to some restrictions due to the proximity to the State Fairgounds and other construction in the area. The contractor shall submit a detailed construction schedule and traffic control plan for approval of the Project Engineer and City Traffic Engineer prior to any work in that area. This work will be incidental to the project and no separate payment shall be made.

26 1700 1584

NOTE

The existing 20" steel waterline shall be abandoned and filled with a sand slurry in Domingo Road from Louisiana Blvd. to Espanola Street. The sand slurry, if possible, shall be pumped into the line at locations where other work is being done.

AS BUILT INFORMATION

NO.	DATE	REMARKS	BY

REVISIONS

DESIGNED BY	J. TOPMILLER	DATE FEB '83
DRAWN BY	T.Y. ASPERA	DATE FEB. '83
CHECKED BY	J. TOPMILLER	DATE FEB. '83

BENCH MARKS

7-K19 LOCATED AT THE INTERSECTION OF CENTRAL & LOUISIANA ON THE EAST MERIDIAN OF THE INTERSECTION
65.5' FROM THE ℄ OF LOUISIANA.
ELEV.-5323.31

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

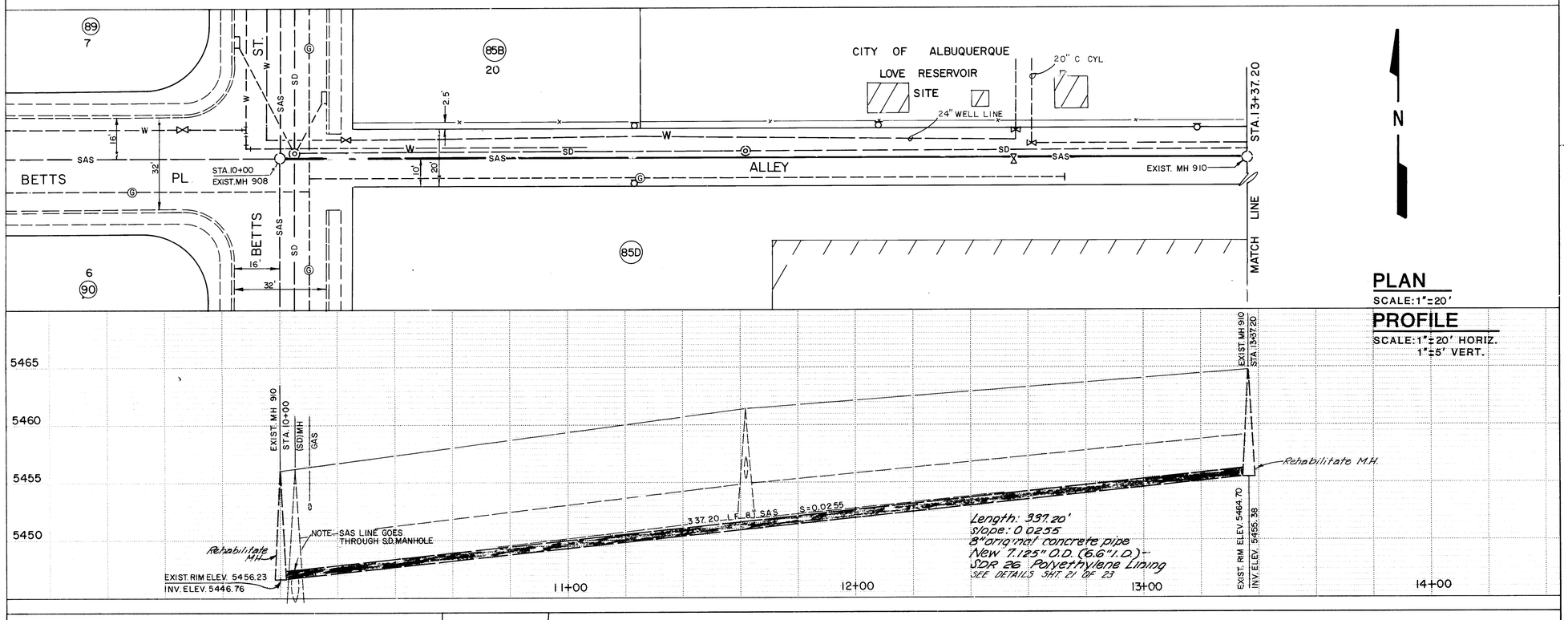
CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

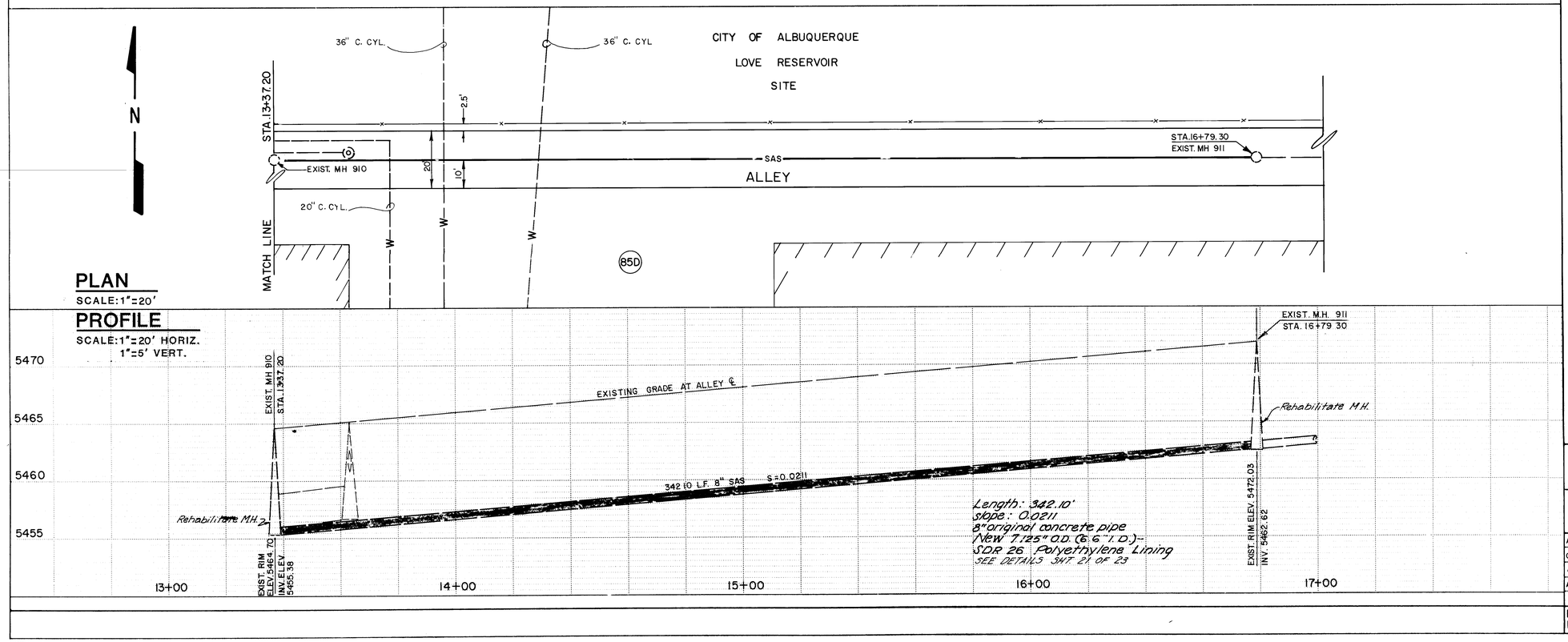
TITLE: WATER & SANITARY SEWER REPLACEMENTS II
MARQUETTE AVE., COPPER AVE., DOMINGO RD.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	James Topmiller	3-11-83
A C E - Design	[illegible]	11 Mar 83	Traffic	N A [illegible]	
A C E - Hydrology			Water	James Topmiller	3-11-83

DRAWING (WRD 82.15.15) NO. 1700 | MAP NO. K-19 | SHEET 15 OF 23

N18931





NOTE:

The location of water lines within the alley are drawn from the best information available. However, the information has been conflicting and the locations shown are approximate. Contractor should exercise extreme caution. All lines should be verified in the field before further construction.

AS BUILT INFORMATION

CONTRACTOR COOK COAST CO
STAKED BY COOK DATE
INSPECTOR'S ACCEPTANCE BY WRD DATE 11/4/83
FIELD VERIFICATION BY WRD DATE
DRAWING CORRECTED BY WRD DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

2-J21 LOCATED AT THE INTERSECTION OF LOMAS BLVD AND MORRIS ST. NE, IN THE NE QUADRANT OF THE INTERSECTION, A SQUARE CHISELED ON TOP OF CONCRETE CURB AT ENE CURB RETURN.
ELEV. 5579.817

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE

ENGINEER'S SEAL

WILLIAM F. ZIMSMAN NEW MEXICO 6851 REGISTERED PROFESSIONAL ENGINEER

NO	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGNED BY	JRT	FEB 82
DRAWN BY	MT	FEB 82
CHECKED BY	JRT	FEB 82

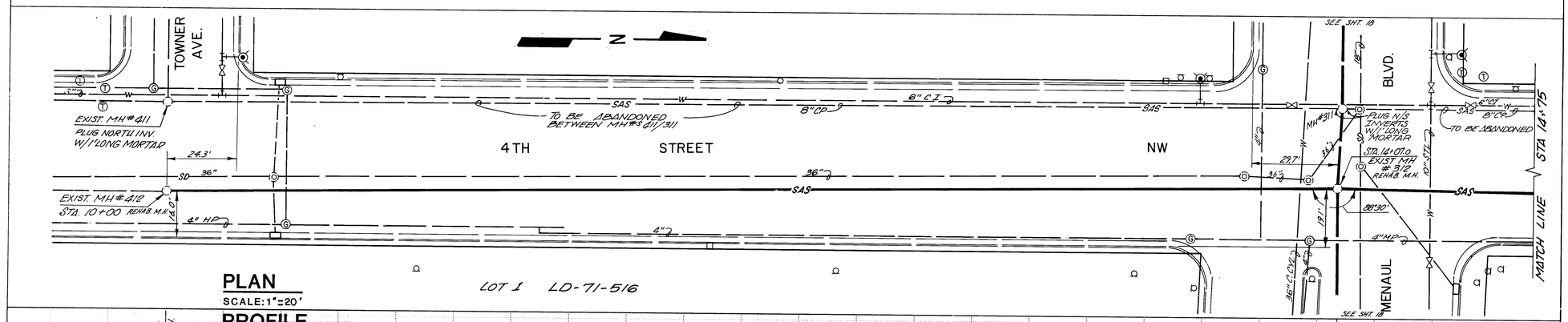
2.6 1 7 0 0 1 6 8 4

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

TITLE: WATER & SANITARY SEWER REPLACEMENTS II
BTW. MH's 908 & 911
ALLEY BETWEEN BETTS AND MORRIS

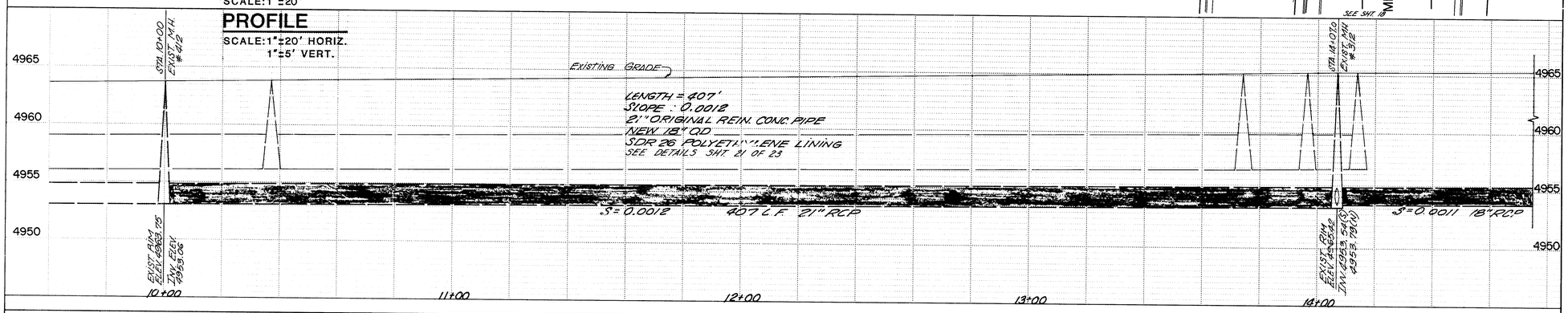
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	James Lopmillier	3-11-83
A.C.E.-Design	J. R. Bellet	11 Mar 83	Traffic	N. A. Otero	
A.C.E.-Hydrology			Water	James Lopmillier	3-11-83

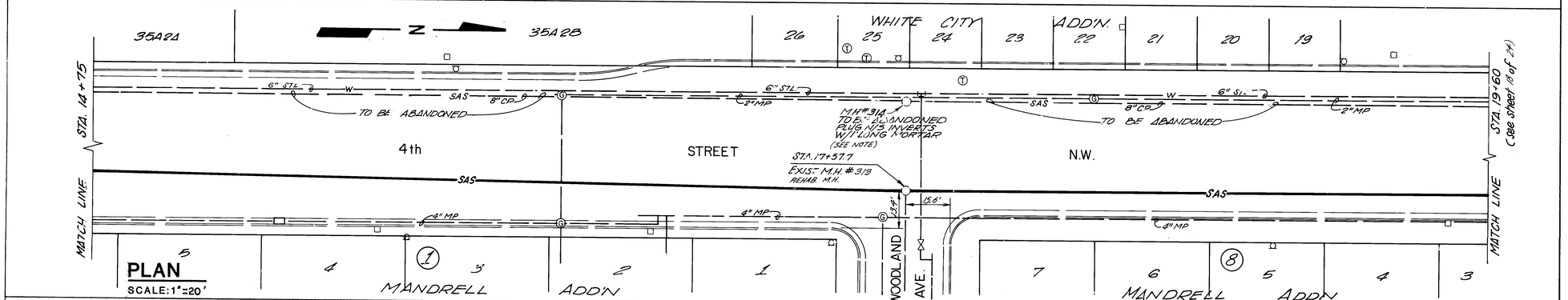
DRAWING (WRD 82.15.16) NO. 1700 | MAP NO. J-21 | SHEET 16 OF 23



PLAN
SCALE: 1"=20'

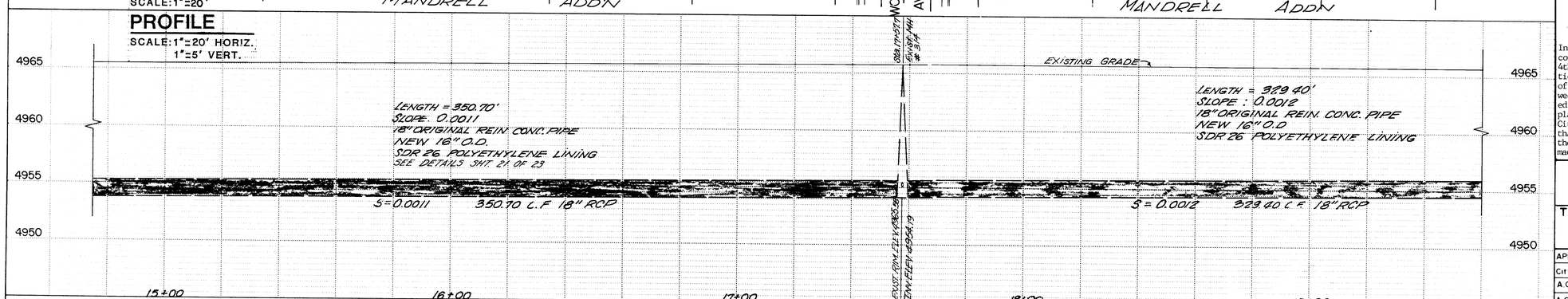
PROFILE
SCALE: 1"=20' HORIZ.
1"=5' VERT.





PLAN
SCALE: 1"=20'

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



NOTES:

The insertion pit for installing liner pipe in 4th street shall not be placed within the 4th and Menaul intersection.

Any and all dewatering shall be considered incidental to the project and no separate payment shall be made.

MANHOLES TO BE ABANDONED IN PLACE SHALL HAVE THE FOLLOWING WORK DONE:

- ALL INGOING AND OUTGOING LINES SHALL BE PLUGGED WITH 12" CONCRETE MORTAR.

MANHOLE LID AND FRAME SHALL BE RETURNED TO CITY YARDS.

- MANHOLE BOTTOM WILL BE PULVERIZED AND MANHOLE FILLED TO RIM WITH CEMENT TREATED BASE MATERIAL.

SANITARY SEWER SERVICES SHALL BE RECONNECTED FROM THE ABANDONED SEWER LINE TO THE NEW LINE.

2C 1700178 4

Bruce L. Spurck
9/6/84

TRAFFIC CONTROL NOTES

In order to minimize the disruption of traffic construction in and around the intersection of 4th and Menaul will be subject to some restrictions. It may, then, be necessary for portions of that work to be conducted at night or on a weekend. The contractor shall submit a detailed construction schedule and traffic control plan for approval of the Project Engineer and City Traffic Engineer prior to any work in that area. This work will be incidental to the project and no separate payment shall be made.

AS BUILT INFORMATION

CONTRACTOR	COOK CONST. CO.	
WORK STAKED BY	COOK	DATE
INSPECTED BY	WRD	DATE 7-8-83
ACCEPTANCE BY	WRD	DATE
FIELD VERIFICATION BY	WRD	DATE
DRAWINGS CORRECTED BY	WRD	DATE
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

BENCH MARKS

BM 4-H14 LOCATED AT THE INTERSECTION OF 4TH & MENAUL N.W. IN THE S.E. QUADRANT OF THE INTERSECTION. A SQUARE, ☑, CHISELED ON TOP OF CONC. CURB AT THE SSE CURB RETURN.
ELEV. - 4965.49

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS	BY

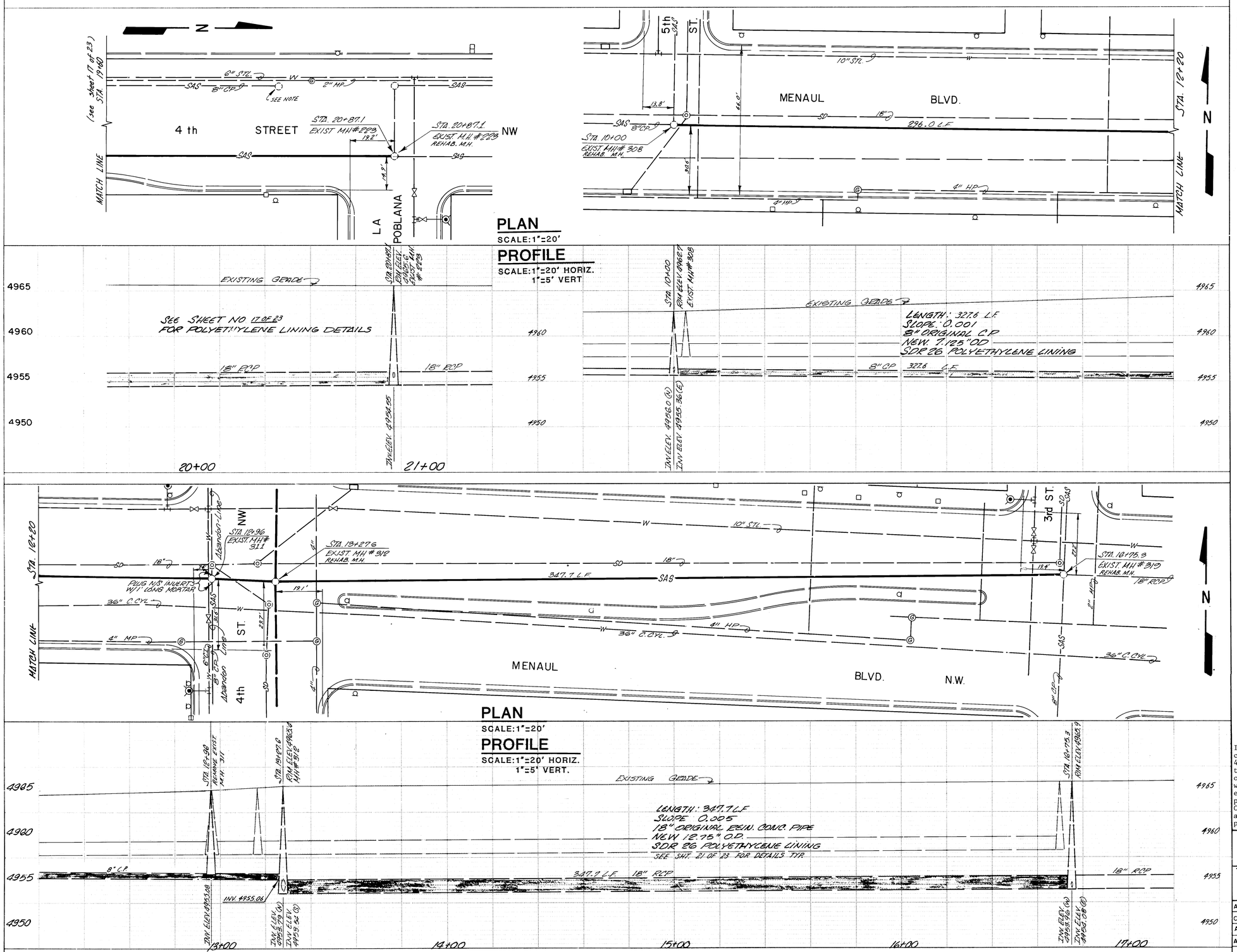
DESIGN		
DESIGNED BY	T.Y. ASPERA	DATE FEB. 83
DRAWN BY	T.Y. ASPERA	DATE FEB. 83
CHECKED BY	J.R. TOPMILLER	DATE FEB. 83

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

TITLE: WATER & SANITARY SEWER REPLACEMENTS II
4TH ST. N.W.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	James Topmiller	3-11-83
A.C.E. - Design	G. Kelsch	11-Mar-83	Traffic	N.A.	
A.C.E. - Hydrology			Water	James Topmiller	3-11-83

DRAWING (WRD 82.15.17) NO. 1700 | MAP NO. H-14 | SHEET 17 OF 23



NOTES:

In Menaul Blvd. work, it will be possible to place the insertion pit in the intersection between the manholes at sta. 13+27.6 and sta. 12+96.. This will allow direct burial of the liner pipe between the manholes. The north and south walls of the insertion pit shall be shored such that a maximum 12 foot wide pavement cut will be made in Menaul Blvd. The length of the pit in the direction of the lining will not be specified, however, it should be minimum.

Any and all dewatering shall be considered incidental to the project and no separate payment shall be made.

MANHOLES TO BE ABANDONED IN PLACE SHALL HAVE THE FOLLOWING WORK DONE:

- ALL INGOING AND OUTGOING LINES SHALL BE PLUGGED WITH 12" CONCRETE MORTAR.

MANHOLE LID AND FRAME SHALL BE RETURNED TO CITY YARDS.

- MANHOLE BOTTOM WILL BE PULVERIZED AND MANHOLE FILLED TO RIM WITH CEMENT TREATED BASE MATERIAL.

SANITARY SEWER SERVICES SHALL BE RECONNECTED FROM THE ABANDONED SEWER LINE TO THE NEW LINE.

26 1 7 0 0 1 8 8 4

TRAFFIC CONTROL NOTES

In order to minimize the disruption of traffic construction in and around the intersection of 4th and Menaul will be subject to some restrictions. It may, then, be necessary for portions of that work to be conducted at night or on a weekend. The contractor shall submit a detailed construction schedule and traffic control plan for approval of the Project Engineer and City Traffic Engineer prior to any work in that area. This work will be incidental to the project and no separate payment shall be made.

AS BUILT INFORMATION

NO.	BY	DATE	REMARKS
			DESIGN
			DESIGNED BY TYA DATE FEB. 83
			DRAWN BY TYA DATE FEB. 83
			CHECKED BY JRT DATE FEB. 83

BENCH MARKS

4-H14 LOCATED AT THE INTX. OF 4TH & MENAUL BLVD. IN THE SE QUAD. OF THE INTX. A SQUARE CHISELED ON TOP OF CONCRETE CURB AT SSE CURB RETURN ELEV. 4965.488

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

WILLIAM F. ZIMMERMAN 4051 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

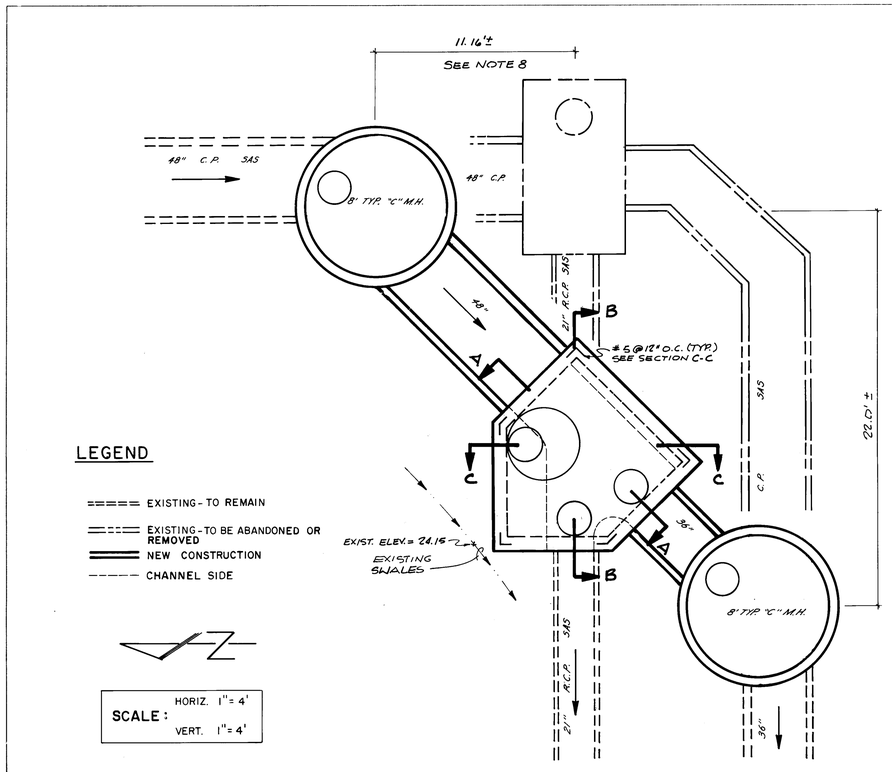
TITLE: WATER & SANITARY SEWER REPLACEMENTS II MENAUL BLVD.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	James Dorsey	3-11-83
A C E - Design		11 Mar 83	Traffic		
A C E - Hydrology			Water	James Dorsey	3-11-83

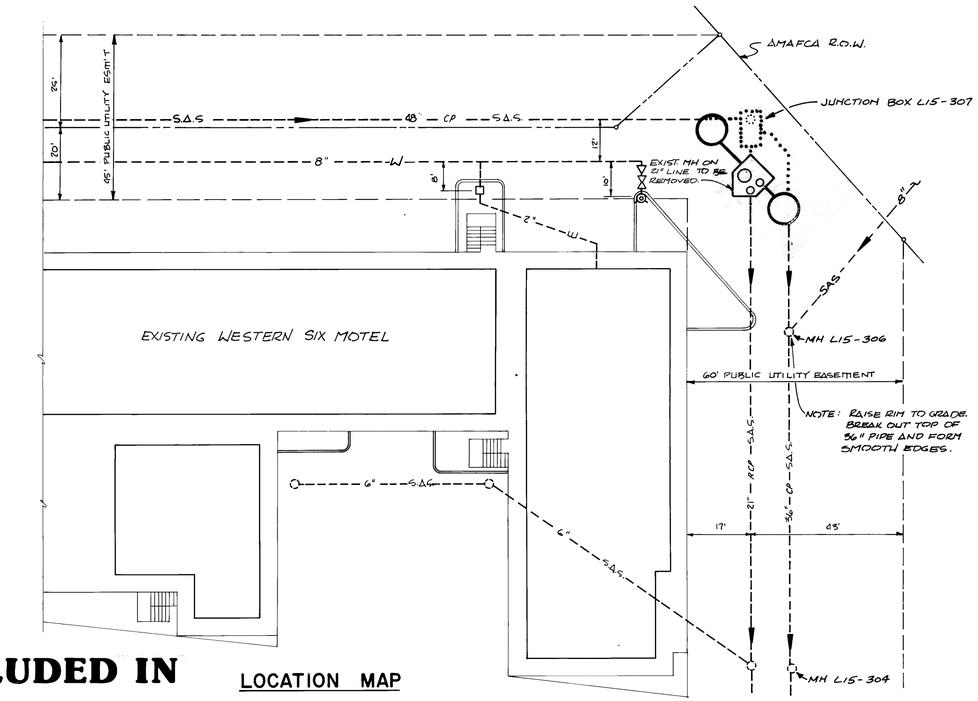
DRAWING NO. (WRD. 82.15.18) 1700

MAP NO. H-14

SHEET 18 OF 23

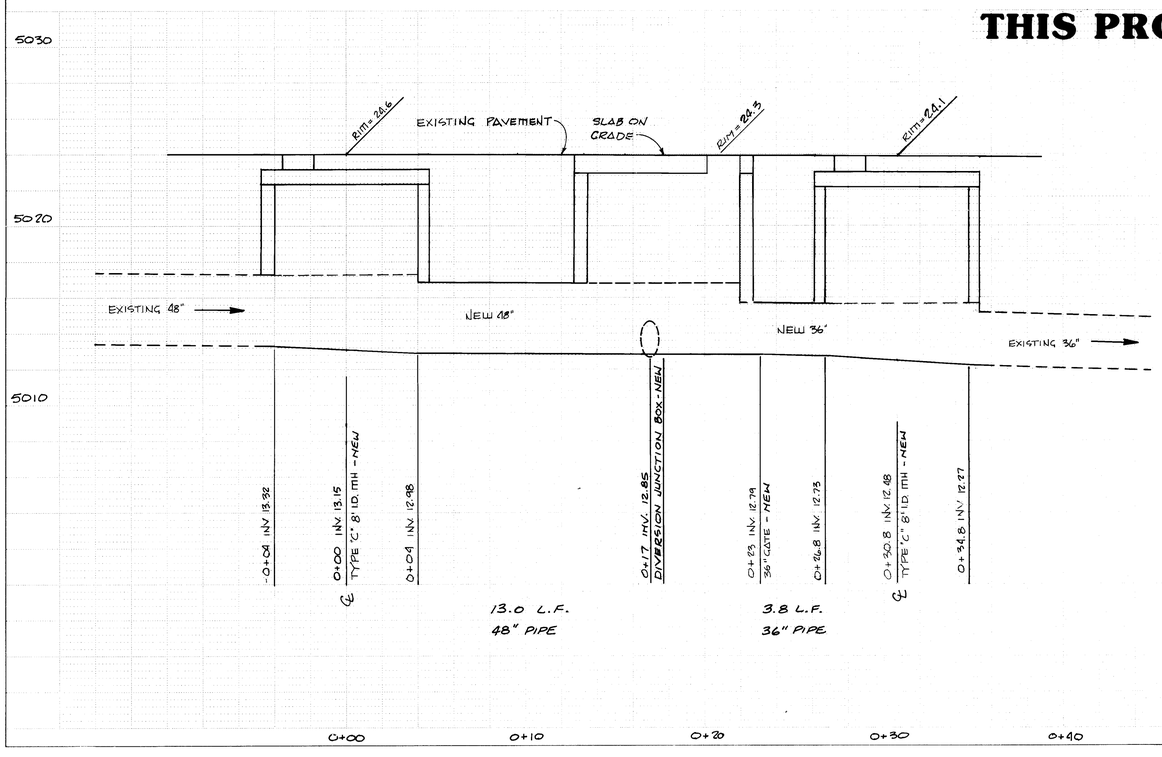


NOT TO BE INCLUDED IN THIS PROJECT



LOCATION MAP

SCALE: 1" = 20'



CONSTRUCTION SEQUENCE

1) Divert all flow to existing 36 inch line.

2) Remove existing manhole on 21 inch line and 21 inch line as required, at site of proposed junction box.

3) Construct new manholes, diversion junction box and pipe. Install sluice gates. Build new manholes around 48 inch and 36 inch lines.

4) Remove 48 inch pipe within new manhole. Form floor and invert per Std. Dwg. S-1-1. Plug abandoned 48 inch line. Divert all flow through new junction box to existing 21 inch line.

5) Remove 36 inch pipe within new manhole. Form floor and invert per Std. Dwg. S-1-1. Plug abandoned 36 inch line.

CONSTRUCTION NOTES

1) Pipe lengths are measured along pipe center line from wall to wall.

2) New pipe shall be Class IV R.C.P. with an Az factor of 0.52.

3) Pipe joints for proposed 48 inch and 36 inch lines shall be located ±2 LF from the walls of the proposed manholes and junction box.

4) Remove abandoned rings and covers and place to side. Notify Dean Wall (766-7768) to pick up.

5) Remove and replace existing asphalt concrete as necessary. Replacement asphalt to be 2" AC - 1500 stability - over compacted subgrade. 95% of ASTM D1557. Match replacement asphalt to edge of junction box to provide a smooth riding surface. Maintain existing swale. Compacted subgrade shall be 6" thick.

LEGEND

EXISTING - TO REMAIN
EXISTING - TO BE ABANDONED OR REMOVED
NEW
REMOVE & REPLACE ASPHALT AS REQUIRED

6) Backfill and compaction around concrete pipe, mannoles and diversion box shall be to a density of not less than 90% of ASTM D1557 and shall comply with "New Mexico Standard Specifications for Public Works", 1979 edition section 550.

7) Provide smooth channelized flow inverts and sides.

8) Location of Type "C" MH's to be verified by City prior to installation. Location of MH adjusted to fit over existing and proposed lines.

9) Upon completion of new construction, remove above ground protrusions from existing junction box. Fill existing box with 90% compacted sand or 3/4" gravel patch asphalt as required.

26 1700 1984

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
I-25-29 station is located 1.2 miles southeast of downtown Albuq. at the SE cor. of Hwy I-25 bridge crossing over Stadium Blvd. NMSHC Brass Tablet Elev. 5031.415

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1555	T. ALDRICH	6-23-80
1580	T. ALDRICH	10-9-81

REFERENCES
MAP NO. L-15
EST. NO.
W.O. NO.

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN
DESIGNED BY M.H. — DATE 6/82
DRAWN BY Z.W. — DATE 6/82
CHECKED BY M.H., C.L., J.H. — DATE 6/82

MSM CONSULTANTS, INC.
CONSULTING ENGINEERS · SURVEYORS · PLANNERS
2601 WYOMING BLVD. N.E. SUITE F ALBUQUERQUE, NEW MEXICO 87112 (505) 292-7408

PLANS PREPARED UNDER THE DIRECTION OF
WILLIAM F. ZIMMERMAN — NEW MEXICO — 9051 — REGISTERED PROFESSIONAL ENGINEER

APPROVED FOR CONSTRUCTION
ENGINEER DATE

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

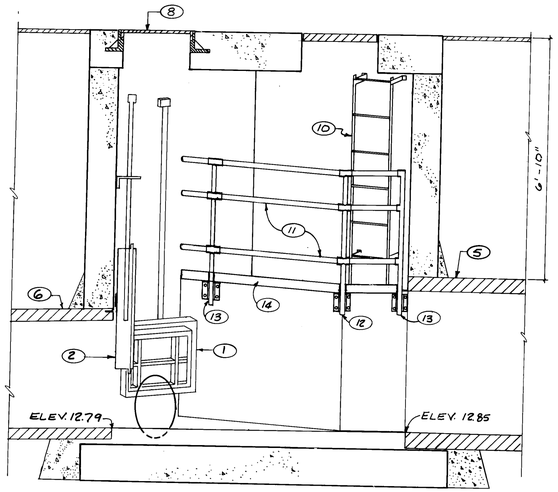
TITLE: WATER & SANITARY SEWER REPLACEMENT II
SEWER DIVERSION FACILITY - LINE 107

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	James Fogarillo	
A.C.E. - Design	G. Aldrich	6-23-80	Traffic	N.A. Pratt	
A.C.E. - Hydrology			Water	James Fogarillo	

DRAWING (WRD 82.15.19) NO. 1700
MAP NO. L-15
SHEET 19 OF 23

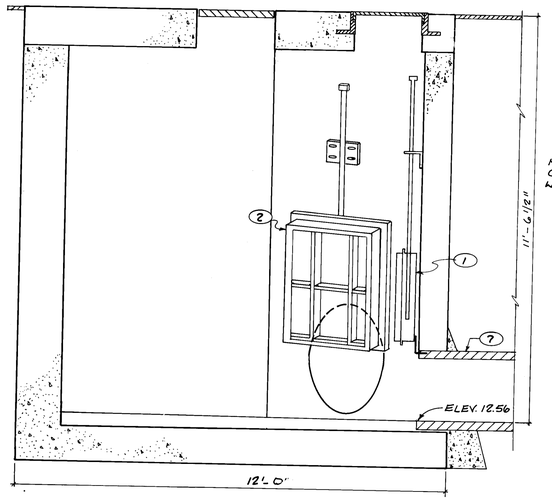
0690161

NOT TO BE INCLUDED IN THIS PROJECT

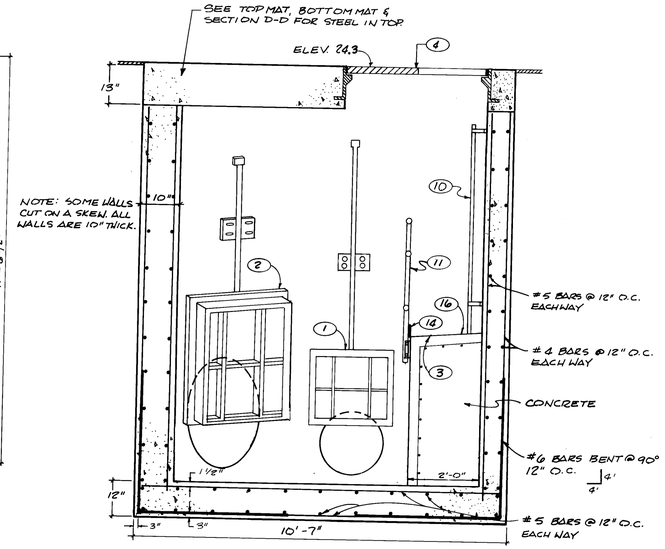


SECTION A-A
1/2" = 1'-0"

NOTE: REINFORCING STEEL NOT SHOWN FOR CLARITY SECTIONS A-A, B-B.



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

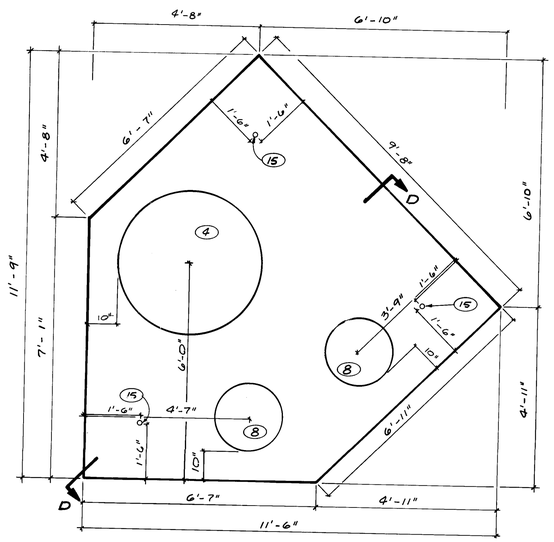


FOR WALLS
NOTE: USE #5 BARS @ 12" O.C. BENT
@ L=90° - 3 CORNERS
L=135° - 2 CORNERS

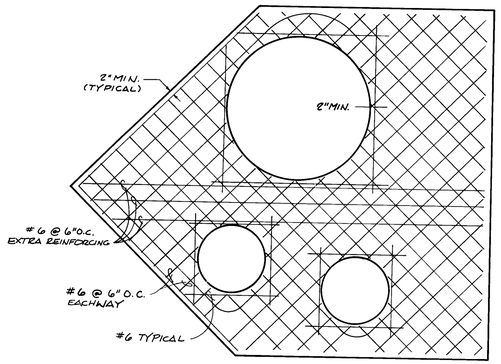
SEE SITE PLAN FOR PLACEMENT OF CORNER STEEL IN WALLS.

3 L 3 3 3

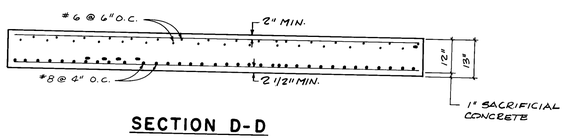
SECTION C-C
1/2" = 1'-0"



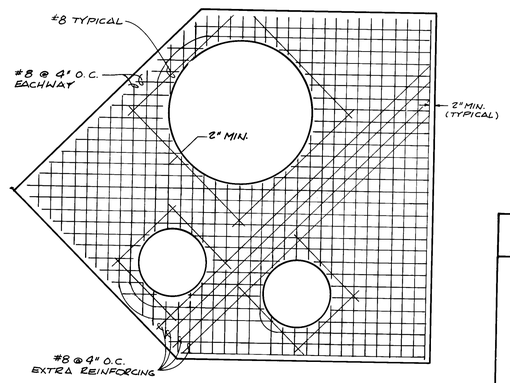
PLAN



TOP MAT



SECTION D-D



BOTTOM MAT

REMOVABLE CONCRETE SLAB
1/2" = 1'-0"

NOTES:

1. SLUICE GATES SHALL MEET AND BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION OF AWWA C 501.
2. SLUICE GATES SHALL BE SELF CONTAINED WITH NON-RISING STEMS.
3. CONCRETE SHALL BE 3000 PSI WITH 3/4" NOMINAL AGGREGATE.
4. REINFORCING STEEL SHALL BE GRADE 60.
5. PROVIDE SMOOTH CHANNELIZED FLOW INVERTS.

KEYED NOTES:

1. 21" X 21" SLUICE GATE.
2. 36" X 36" SLUICE GATE.
3. SHELF - SLOPE 1/2" PER FOOT. BROOM FINISH.
4. RING AND COVER. NEENAH R-1741-F WITH TYPE "C" LID OR EQUAL. 48" DIA.
5. NEW 36" PIPE.
6. NEW 48" PIPE.
7. EXISTING 21" PIPE.
8. CAST IRON M.H. COVER & FRAME PER STANDARD DWG. S-S-1, OR EQUAL. 22 3/4" DIA.
9. CAST IN PLACE, REINFORCED CONCRETE.
10. OSHA LADDER SHALL BE ALUMINUM WITH STAINLESS STEEL BRACKETS, BOLTS, AND ANCHORS. ANCHOR SHALL BE 1/2" EXPANSION SHIELD, OR EQUAL.
11. 1 1/2" ALUMINUM PIPE SCHEDULE 40 6063 ALLOY RAILING & CONNECTIONS AS SUPPLIED BY ARCHITECTURAL ART MFG. INC. # 7150. END CAPS PROVIDED AT ALL EXPOSED PIPE ENDS. RAIL TO BE 42" ABOVE SHELF.
12. # 15013 SIDE CORNER POST.
13. # 15011 SIDE MOUNTED POST.
14. KP-4 KICK PLATE WITH # 15014 KICK PLATE BRACKETS.
15. 1" PIPE SLEEVE VERTICALLY THROUGH COVER.
16. CONCRETE SHELF W/ 6X6 WWF 6/6. 4'-0" TALL.

26 17002084

AS BUILT INFORMATION	
CONTRACTOR	
WORK STAKED BY	DATE
INSPECTOR NOTIFIED	
ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS
T-25-29 Station is located 1.2 miles Southeast of downtown Albuq. of the S.E. Cor. of Hwy I-25 bridge crossing over Stadium Blvd. N.M.S.H.C. Brass Tablet Elev. 5031.415

SURVEY INFORMATION

NO.	DATE	FIELD NOTES BY	DATE

REFERENCES: MAP NO. / EST. NO. / WO. NO. / NO.

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN
DESIGNED BY M.H., C.L. DATE 6/82
DRAWN BY Z.W. DATE 6/82
CHECKED BY M.H., C.L., J.H. DATE 6/82

MSM CONSULTANTS, INC.
CONSULTING ENGINEERS · SURVEYORS · PLANNERS
2601 WYOMING BLVD., N.E. SUITE F ALBUQUERQUE, NEW MEXICO 87112 (505) 292-1936

PLANS PREPARED UNDER THE DIRECTION OF
WILLIAM F. ZIMMERMAN NEW MEXICO 8051 REGISTERED PROFESSIONAL ENGINEER

APPROVED FOR CONSTRUCTION
ENGINEER DATE

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

TITLE: WATER & SANITARY SEWER REPLACEMENT II
SEWER DIVERSION FACILITY - LINE 107

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.- Design		11 Mar 83	Traffic		
A.C.E.- Hydrology			Water		

DRAWING (WRD 82.15.20) NO. 1700 | MAP NO. L-15 | SHEET 20 OF 23

WATER & SANITARY SEWER REPLACEMENT II

LIST OF DRAWINGS

SHEET NO.	DRAWING NO.	TITLE
1	WRD 82.15.01	TITLE SHEET, LEGEND INDEX, & GEN. NOTES
2 & 3	WRD 82.15.02-03	PROJECT LOCATION MAPS
4	WRD 82.15.04	15 TH. STREET S.W.
5	WRD 82.15.05	15 TH. STREET S.W.
6	WRD 82.15.06	PROSPECT AVE. N.W.
7	WRD 82.15.07	PROSPECT AVE. N.W.
7	WRD 82.15.07	CEDAR AVE. S.E.
8	WRD 82.15.08	CEDAR AVE. S.E.
9	WRD 82.15.09	FREDERICK CT. N.W.
10	WRD 82.15.10	WASHINGTON ST. N.E.
11	WRD 82.15.11	ESPANOLA ST. N.E.
12	WRD 82.15.12	ESPANOLA ST. N.E.
13	WRD 82.15.13	ESPANOLA ST. N.E.
14	WRD 82.15.14	ESPANOLA ST. N.E.
15	WRD 82.15.15	MARQUETTE, COPPER DOMINGO
16	WRD 82.15.16	ALLEY BTW. BETTS & MORRISMH. 908-910
17	WRD 82.15.17	4 TH. STREET N.W.
18	WRD 82.15.18	MENAUL BLVD N.W
~~19~~	~~WRD 82.15.19~~	~~GAS DIVERSION FACIL.~~
~~20~~	~~WRD 82.15.20~~	~~GAS DIVERSION FACIL.~~
21	WRD 82.15.21	SLIPLINE DETAILS
22	WRD 82.15.22	DETAILS
23	WRD 82.15.23	TRAFFIC CONTROL

NOT TO BE INCLUDED IN THIS PROJECT

6" WATERMAIN - 15 TH. STREET S.W.
6" " - PROSPECT AVENUE N.W.
6" " - CEDAR AVENUE S.E.
6" " - FREDERICK COURT N.W.
8" SANITARY SEWER - WASHINGTON STREET N.E.
8" " " / ESPANOLA STREET N.E.
6" WATERMAIN
8" " - COPPER AVENUE N.E.
6" " - MARQUETTE AVENUE N.E.
MISC. WATERMAIN WORK - DOMINGO ROAD N.E.
8" SANITARY SEWER - ALLEY EAST OF BETTS ST., NORTH OF LOMAS BLVD.
8", 18", 21" SANITARY SEWER - 4 TH. ST. & MENAUL N.W.
~~SANITARY SEWER DIVERSION FACILITY LINE 107~~

LEGEND

- W.L. — PROPOSED WATER LINE
- SAS — PROPOSED SEWER LINE
- PROPOSED GATE VALVE (WATER)
- PROPOSED FIRE HYDRANT
- PROPOSED TEE
- PROPOSED SANITARY MANHOLE
- W — EXISTING WATER LINE & VALVE
- SAS — EXISTING SEWER LINE & MANHOLE
- SD — EXISTING STORM DRAIN & MANHOLE
- G — GAS MAIN
- UT — UNDERGOUND TELEPHONE TELEPHONE MANHOLE
- UTILITY POLE
- EXISTING TEE (WATER)
- EXISTING CURB & GUTTER WITH STORM INLET
- EXISTING BUILDING
- EXISTING WATER METER
- METER BOX REHABILITATION
- RELOCATE BOX & PLATE
- REPLACE EXISTING SERVICE LINE/OR INSTALL NEW SERVICE LINE
- REPLACE EXISTING SERVICE LINE ONLY
- INSTALL DOUBLE BOX & PLATE

MARCH 1983

26 17000184

GENERAL NOTES

1. THE LOCATION OF ALL EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS, ARE APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING FINAL UTILITY LOCATION DETERMINATION IN THE FIELD DURING CONSTRUCTION; THIS IS INCIDENTAL TO THE CONTRACT.
2. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES BY CALLING "BLUESTAKES" AT 765-1234 AT LEAST 48 WORKING HOURS PRIOR TO COMMENCING WORK IN ANY PART OF THE PROJECT AREA.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND MAINTAINING IN SERVICE ALL EXISTING UTILITIES.
4. THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE CONSTRUCTION LIMITS AND/OR RIGHT-OF-WAYS TO PRESERVE EXISTING VEGETATION AND PRIVATE PROPERTY. OVERNIGHT PARKING OF CONTRACTOR'S EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAY OPENINGS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL SCHEDULE HIS TRENCHING INSTALLATION AND BACKFILL OPERATIONS SO THAT ACCESS TO ANY DRIVEWAY IS NOT DISRUPTED LONGER THAN ONE WORKING DAY.
5. THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH THE ENGINEER TO MINIMIZE TRAFFIC DISRUPTIONS. NO CONSTRUCTION WILL BE ALLOWED ADJACENT TO PUBLIC SCHOOLS, EXCEPT DURING SCHOOL HOLIDAYS AND/OR BREAKS.
6. A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIALS SHALL BE OBTAINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE, HAULING THERETO AND PROPER DISPOSAL THEREOF SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO DIRECT PAYMENT WILL BE MADE THEREFOR.
7. THE CITY OF ALBUQUERQUE STANDARD DETAILS ARE INCLUDED IN THE SPECIFICATIONS AND MADE A PART OF THIS CONTRACT.
8. THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1979 EDITION AND SUPPLEMENTAL SPECIFICATIONS WILL GOVERN WORK ON THIS PROJECT. UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS.
9. ENDS OF ALL ABANDONED WATER LINES SHALL BE SECURED BY THE INSERTION OF A 12 INCH MORTARED PLUG, UNLESS OTHERWISE NOTED. THIS WORK SHALL BE INCIDENTAL AND NO EXTRA PAYMENT SHALL BE MADE FOR SAID WORK.
10. ARTERIAL PAVEMENT IS TO BE USED ON WASHINGTON BLVD., NE, COAL AVE., SE, LEAD AVE., SE, CENTRAL AVE., NE.
11. WHERE CONCRETE BLOCKING IS CALLED FOR, WRAP ALL BENDS, TEES, AND OTHER FITTINGS WITH POLYETHELENE.
12. WATER SYSTEMS DIVISION SHALL BE THE ONLY AUTHORIZED PERSONNEL TO OPERATE EXISTING VALVES, FIRE HYDRANTS, ETC., ALL WORK SHUTOFFS MUST BE COORDINATED WITH SAID DIVISION THREE (3) FULL WORKING DAYS PRIOR TO PROPOSED SHUTOFFS. CALL 766-7100.
13. NEW WATER LINE TO EXISTING STEEL PIPE RECONNECTION--SEE SPECIAL NOTE UW STD. DRAWING W-1-2 IN CONTRACT DOCUMENTS WHEN NEW LINE MUST REDUCE IN SIZE TO EXISTING LINE.
14. PROPERTY OWNERS, ADJACENT TO THE PROJECT, MAY DESIRE REPLACEMENT OF THEIR EXISTING DETERIORATED SANITARY SEWER SERVICE AT THE TIME THE SERVICE IS EXPOSED DURING THE NORMAL CONSTRUCTION. THIS WORK SHALL BE SEPARATE FROM THIS PROJECT AND SHALL BE PAID FOR BY THE REQUESTOR DIRECTLY TO: (A) THE PROJECT CONTRACTOR; OR (B) A PRIVATE PLUMBING CONTRACTOR WHO SHALL COORDINATE HIS ACTIVITIES WITH THE PROJECT CONTRACTOR.
15. WATER SYSTEMS DIVISION SHALL HAVE THE AUTHORITY TO CANCEL ALL SCHEDULED SHUTOFFS.
16. CONTRACTOR SHALL RECONNECT ALL SANITARY SEWER HOUSE SERVICES IN THE MANNER AND DIRECTION AS ORIGINALLY FOUND; EVEN IF THIS SHALL MEAN THE SERVICE MAY BE AT AN ANGLE OTHER THAN 90 DEGREES FROM THE MAIN; PER AGREEMENT WITH THE MECHANICAL SECTION/CODE ADMINISTRATION DIVISION.
17. THE CONTRACTOR SHALL COMPLETE ALL SANITARY SEWER AND WATER WORK INTENDED FOR A STREET BEFORE MOVING ONTO ANOTHER STREET IN THE PROJECT, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER. ONCE ALL SANITARY SEWER AND WATER WORK HAS BEEN DONE IN A STREET, THE CONTRACTOR SHALL HAVE TWO (2) WEEKS TO LAY CURB AND GUTTER, SIDEWALK, SUBGRADE, AND BASE COURSE ONLY WITHIN THE STREET. SURFACE COURSE SHALL BE LAID ONLY AFTER SUCCESSFUL TESTING OF ALL OTHER WORK WITHIN THE STREET.
18. THE CARE AND PROTECTION OF ALL OTHER UTILITIES, CURB AND GUTTER, SIDEWALK, AND OTHER STREET APPURTENANCES THAT ARE NOT A PART OF THE INTENDED WORK AS SHOWN ON PLANS ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF DAMAGED, LOST IN TRENCH, OR OTHERWISE HARMFULLY DISTURBED, THESE ITEMS WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
19. BROKEN CONCRETE STRUCTURES AND/OR CONCRETE MASONRY UNITS TO BE REPLACED AS PART OF THE WORK SHALL BE PREPARED AND DELIVERED TO OWNER SITE LOCATING BY THE CONTRACTOR AS DESCRIBED WITHIN SECTION 212 OF THE SUPPLEMENTAL TECHNICAL SPECIFICATIONS.
20. WHEN SO CALLED ON THE PLANS, MANHOLE REHABILITATION FOR LINES TO BE SLIPLINED SHALL INCLUDE THE WORK DESCRIBED IN THE SUPPLEMENTAL TECHNICAL SPECIFICATIONS OF THE CONTRACT DOCUMENTS, SECTIONS 600.15 AND 552.076. WHEN SO CALLED ON THE PLANS, MANHOLE REHABILITATION ON LINES TO BE REPLACED SHALL BE THE WORK DESCRIBED IN SECTION 552.076 ONLY.
21. SAN CRISTOBAL, 15TH, CEDAR, AND PROSPECT STREETS SHALL BE OVERLAID WITH NEW SURFACE COURSE BY THE CITY TRANSPORTATION DEPARTMENT. IN THESE STREETS, THE CONTRACTOR SHALL REPLACE 4-6" ASPHALT CONCRETE BASE COURSE (WITH SUBGRADE) TO THE TOP OF THE EXISTING PAVEMENT SURFACE ON EITHER SIDE OF THE TRENCH.
22. IN FREDERICK COURT, THE ENGINEER SHALL DETERMINE WHETHER THERE WILL BE FULL WIDTH OR TRENCH ONLY PAVEMENT REMOVAL AND REPLACEMENT AFTER THE PROJECT HAS BEEN AWARDED.
23. IF, AFTER LAYING BASE COURSE, ALL OR A PORTION OF THE WORK SHOULD FAIL TESTING AND REQUIRE EXCAVATION, THE REMOVAL AND REPLACEMENT OF THE BASE COURSE (AND ALL OTHER NECESSARY WORK TO REPAIR DEFECTIVE WORK AS SET FORTH IN THE CONTRACT DOCUMENTS) SHALL BE AT THE CONTRACTOR'S EXPENSE.
24. 20" STEEL WATER LINE IN ESPANOLA STREET SHALL BE ABANDONED IN PLACE OR REMOVED AT THE CONTRACTOR'S OPTION; HOWEVER, REMOVING THE PIPE SHALL BE INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT WILL BE MADE. IF ABANDONED IN PLACE, PAYMENT WILL BE MADE FOR FILLING THE ABANDONED PIPE WITH A SAND SLURRY.

REV.	SHEETS	CITY ENGR.	DATE	USER DEPT.	DATE	USER DEPT.	DATE
APPROVAL OF REVISIONS							

APPROVED FOR CONSTRUCTION Walter W. Dickerson Jr 3/15/83 W.R.D. CHIEF ENGINEER	APPROVED FOR CONSTRUCTION TAB for GED 3-18-83 CITY ENGINEER
PROJECT NO. (WRD 82.15) 1700	SHEET 1 OF 23

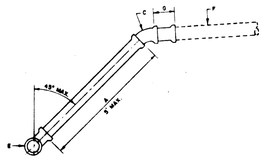
CITY OF ALBUQUERQUE BERNALILLO COUNTY WATER RESOURCES DEPARTMENT

GENERAL NOTES:

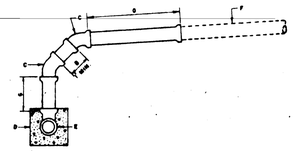
1. IF DISTANCE A IS 5' OR LESS, ROTATE MAIN SERVICE TEE AND RECONNECT SERVICE AS PER DETAIL I. IF A IS GREATER THAN 5' INSTALL RISER AS PER DETAIL II.
2. WHERE DEPTH IS INSUFFICIENT TO ALLOW RECONNECTION AS SHOWN IN DETAIL I OR II, RECONNECT SERVICE AS DIRECTED BY CITY ENGINEER/FIELD.

CONSTRUCTION NOTES:

A. VARIABLE WITH A MAX. OF 5'.
B. 1' MIN., 1.5' MAX.
C. ELBOWS, 45° DEFLECTION MAX.
D. INSTALL CONCRETE CRADLE ON TEE AS PER DWG. S-7.
E. SERVICE TEE.
F. EXIST. SERVICE LINE.
G. VARIABLE LENGTH.



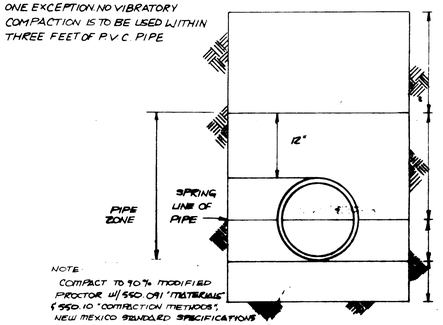
DETAIL I



DETAIL II

REVISIONS	CITY OF ALBUQUERQUE SEWER SEWER SERVICE REPLACEMENT DETAIL DWG. S-13

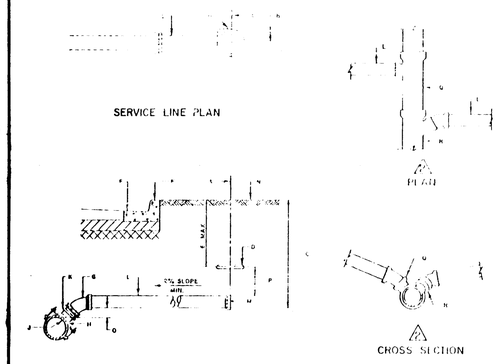
COMPACTION TO BE ACCOMPLISHED BY SATURATION AND HAND TAMPING OR VIBRATORY COMPACTION WITH ONE EXCEPTION NO VIBRATORY COMPACTION IS TO BE USED WITHIN THREE FEET OF P.V.C. PIPE



NOTE:
COMPACT TO 90% MODIFIED PROCTOR W/ §550.091 "MATERIALS" §550.10 "CONSTRUCTION METHODS", NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1979 EDITION.

BEDDING FOR DIRECT BURIAL

N.T.S.



GENERAL NOTES

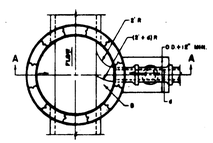
1. ALL SERVICE LINE [illegible]
2. SERVICE LINE [illegible] NOTE: [illegible]

CONSTRUCTION NOTES

A. RIGHT OF WAY LINE
B. E. SERVICE LINE
C. MIN OF 45° FROM [illegible] LINE AT RIGHT OF WAY [illegible]
D. FIELD BENDING REQUIRED [illegible] PLACED OVER OF SERVICE [illegible] PURGED
E. STAMP ON CURB [illegible] OVER LOCATION OF [illegible] SERVICE
F. CURB AND GUTTER
G. 22.5° OR 45° BEND
H. CONC BRICKS, MONUMENT [illegible] SYSTEM, OR OTHER PERMANENT SYSTEM [illegible] APPROVED EQUAL
J. SERVICE LINE SHALL NOT PENETRATE INTO SEWER MAIN
K. SANITARY SEWER TAP [illegible] CONNECTION [illegible] SEWER TAP SHALL BE PERFORMED [illegible] ENGINEERING CO. [illegible]
L. SERVICE LINE [illegible]
M. CLEAN PLUG
N. MANHOLE [illegible]
O. [illegible]
P. MINIMUM 6" [illegible] OF MORE THAN 4 FT.
Q. TEE CONNECTION FOR NEW MAIN
R. WYE CONNECTION FOR NEW MAIN

REVISIONS	CITY OF ALBUQUERQUE SEWER SERVICE LINE DETAILS DWG. S-8

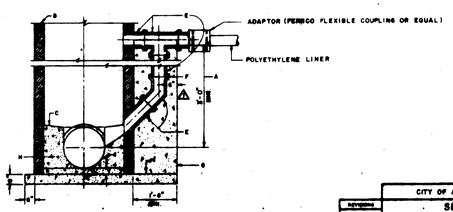
NOTE: BACKFILL FOR SEWER SERVICE TRENCH SHALL BE COMPACTED IN 8" LIFTS AT 90% OF THE MAXIMUM COMPACTIVE EFFORT AS DETERMINED BY ASTM D1557. THE TOP TWO LIFTS SHALL BE AT 95% OF THE COMPACTIVE EFFORT. THE MATERIAL USED SHALL BE AS SPECIFIED UNDER SECTION 550.091 OF THE S.T.S.



FLOOR PLAN

CONSTRUCTION NOTES:

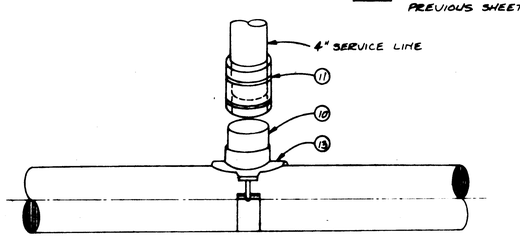
A. VERTICAL DROP.
B. PERM PIPE INVERT IN SHELF.
C. SLOPE, 1" PER FT.
D. M.H. TYPE FOR UPPER PORTION WILL BE SPECIFIED ON DESIGN PROFILE.
△ E. EXISTING DUCTILE IRON PIPE.
F. USE BELL AND SPIGOT 45° SHORT OR LONG RADIUS BEND.
G. CONC. SUPPORT WIDTH EQUALS PIPE O.D. PLUS 6" MIN. EACH SIDE.
H. CONC. FILL TO BE TYPE II CEMENT.
△ J. REINFORCED CONC. BASE, SEE CONSTRUCTION NOTE E OF DWG. S-1 & DWG. S-2.



SECTION A-A

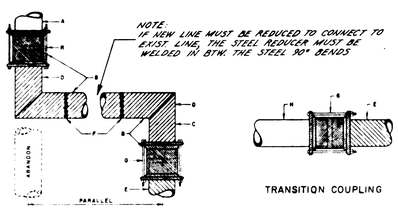
REVISIONS	CITY OF ALBUQUERQUE SEWER VERTICAL DROP AT MH DWG. S-4-1

NOTE: SEE KEYED NOTES ON PREVIOUS SHEET.



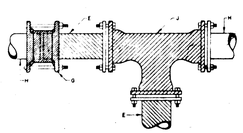
CAST IRON SADDLE TAP (FOR DIRECT BURIAL CONNECTIONS)

(CITY APPROVED)

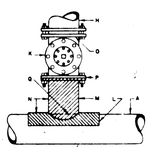


REPLACEMENT OF STEEL LINES 4"-12" CONNECTION DETAILS

TRANSITION COUPLING



TEE INSERTION D.I., C.I. OR A.C. PIPE △



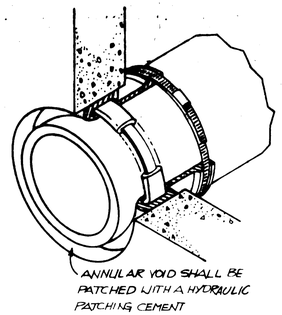
CONNECTION TO STEEL PIPE

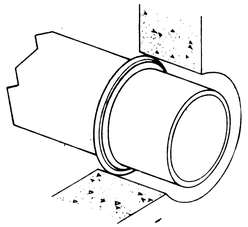
CONSTRUCTION NOTES:

A. EXISTING STEEL PIPE
△ B. TAR, WRAP AND TIE STEEL PIPE AND COUPLING AS PER AWWA C-209-76
C. REDUCE MUST COUPLING, IF EXISTING LINE IS SMALLER THAN NEW LINE
D. 90° ELBOW
△ E. NEW D.I., C.I. A.C. OR PVC PIPE
F. WELD ALL JOINTS
G. TRANSITION COUPLING
H. EXISTING C.I. OR A.C. PIPE
J. M.J. C.I. TEE
K. GATE VALVE FL.-M.J.
L. WELDING COLLAR
M. STEEL WELDING NECK FL.
N. TAR COAT COLLAR, NECK AND DAMAGED PIPE COATING
O. M.J. FLANGE
P. FLANGE
Q. PRESSURIZED CONNECTION
R. ALL STEEL COUPLING

REVISIONS	CITY OF ALBUQUERQUE WATER WATERLINE CONNECTION DETAILS DWG. W-1-1

NOTE:
THE CONTRACTOR SHALL INSTALL A FLEXIBLE SEALING GASKET AT THE MANHOLES FOR P.V.C ~~PIPE PIPE~~ LINES. THE GASKET SHALL BE A "PRESS SEAL" PS 10" JOHNS-MANVILLE, HAMILTON KENT MANHOLE ADAPTOR RING, OR CITY APPROVED EQUAL





MANHOLE GASKETS

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

PLANS PREPARED UNDER THE DIRECTION

APPROVED FOR CONSTRUCTION

ENGINEER DATE

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT

TITLE WATER & SANITARY SEWER REPLACEMENTS II DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	James Somerville	3/1/83
A.C.E.-Design	G. Kelich	1 Mar 83	Traffic	N.A.	
A.C.E.-Hydrology			Water	James Somerville	3/1/83

DRAWING (WRD 82.15.22) NO. 1700

SHEET 22 OF 23

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY
INSPECTOR'S INITIALS BY
FIELD VERIFICATION BY
DRAWINGS CORRECTED BY
RECORDED BY

DATE
DATE
DATE
DATE
DATE
DATE

MICRO-FILM INFORMATION

NO.

BENCH MARKS

NA

SURVEY INFORMATION

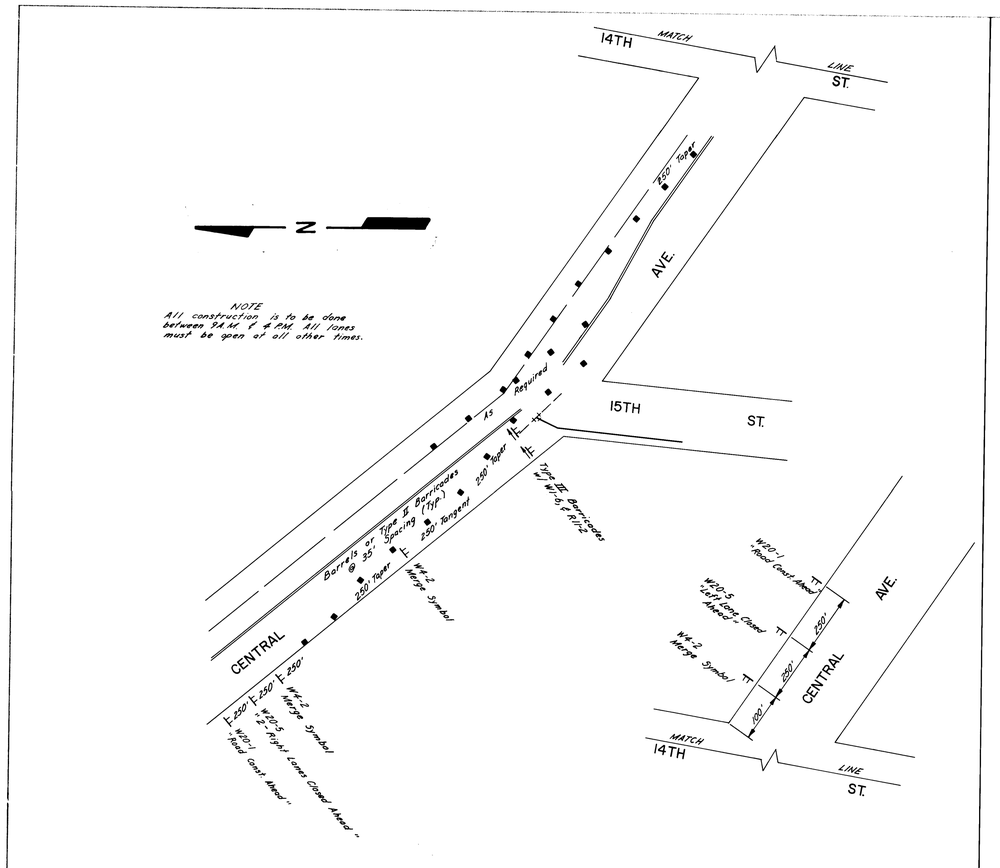
FIELD NOTES

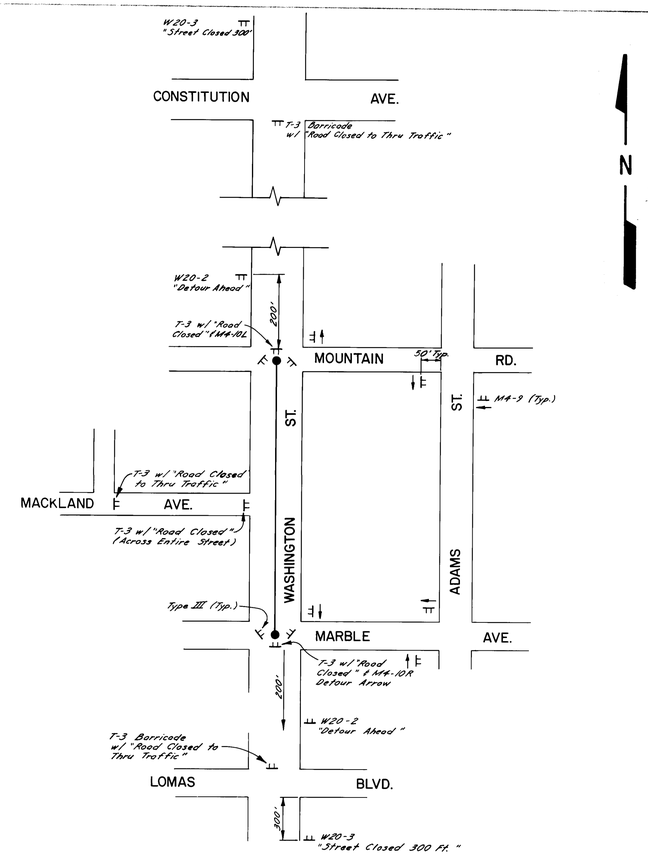
NO.	BY	DATE
NA		

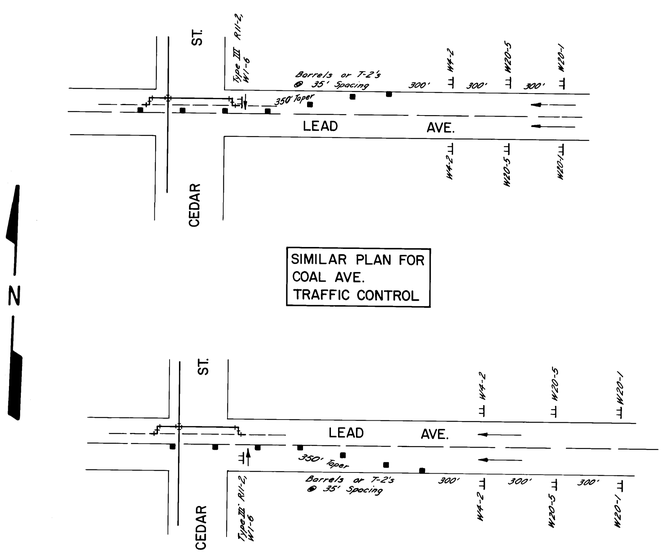
REFERENCES

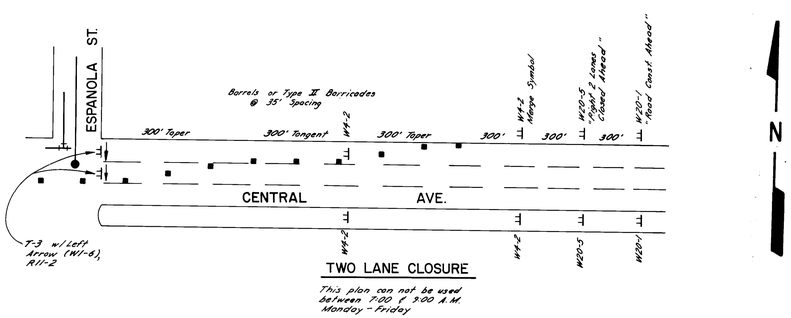
MAP NO. N.A.
EST. NO.
W.O. NO.

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
			DATE FEB 83
			DATE FEB 83
			DATE FEB 83



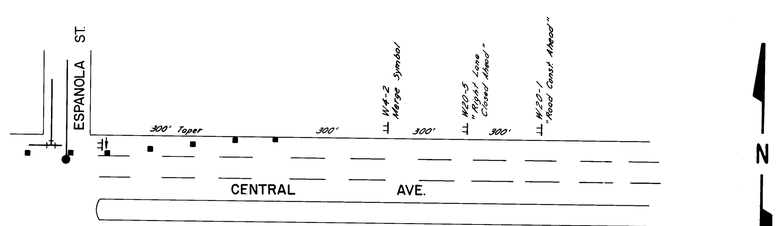






TWO LANE CLOSURE

This plan can not be used between 7:00 & 9:00 A.M. Monday - Friday



SINGLE LANE CLOSURE

GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH CHAPTER VI OF THE 1978 EDITION "MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES.
2. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE PROJECT ENGINEER A DETAILED DETOUR PLAN, WHICH IS SUBJECT TO THE APPROVAL OF THE CITY TRAFFIC ENGINEER, 3 WORKING DAYS IN ADVANCE OF ANY REQUIRED LANE CLOSURES OTHER THAN THOSE SHOWN ON THESE PLANS.
3. ALL SIGNS MUST BE INSTALLED BEFORE CONSTRUCTION BEGINS AS DIRECTED BY THE ENGINEER. THE BOTTOM OF CONSTRUCTION WARNING SIGNS SHALL BE 7-FEET ABOVE THE SIDEWALK LEVEL.
4. ALL SIGNS, BARRICADES AND/OR BARRELS WILL BE REFLECTORIZED. ALL BARRELS MAY HAVE SAND OR WATER BALLAST LIMITED TO 100 LBS.
5. ALL SIGN LOCATIONS WILL BE SELECTED IN THE FIELD AND APPROVED BY THE PROJECT ENGINEER. DISTANCES MAY BE ADJUSTED FOR LOCAL CONDITIONS.
6. ALL SIGNS WILL BE GROUND MOUNTED ON SINGLE OR DOUBLE POSTS. EXISTING POSTS MAY BE USED AT SOME LOCATIONS, WITH THE APPROVAL OF THE PROJECT ENGINEER. PORTABLE SIGNS SUPPORTS WILL BE ACCEPTABLE AS AN ALTERNATE, PROVIDED THAT THEY DO NOT UNDULY OBSTRUCT THE SIDEWALK.
7. ALL SIGNS WILL BE MOVED FORWARD AS THE CONSTRUCTION PROGRESSES.
8. THE CONTRACTOR SHALL MAINTAIN ACCESS TO BUSINESS AND RESIDENCES ADJACENT TO THE CONSTRUCTION AREA.
9. WHEN BARRIERS ARE REQUIRED AFTER DARK, ALL ADVANCE WARNING SIGNS AND ALL BARRICADES SHALL BE EQUIPPED WITH FLASHING WARNING LIGHTS (TYPE A), EXCEPT THAT THAT ALL CHANNELIZING BARRICADES SHALL HAVE STEADY BURNING WARNING LIGHTS (TYPE C).
10. 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.
11. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELING 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.
12. ALL CONSTRUCTION SIGNING SHALL BE BLACK ON A REFLECTORIZED ORANGE FIELD UNLESS OTHERWISE SPECIFIED.
13. DO NOT MIX CHANNELIZATION BARRELS WITH TYPE II BARRICADES.
14. ALL ADVANCE WARNING SIGNS SHALL BE 48" X 48".
15. ALL CONSTRUCTION TIES TO EXISTING MANHOLES AND WATER LINES, IN CENTRAL AVENUE MUST NOT EXCEED TWO (2) WORKING DAYS.
16. CONSTRUCTION IN WASHINGTON STREET, N.E. SHALL NOT EXCEED FOURTEEN (14) CONSECUTIVE CALENDAR DAYS.

AS BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTOR — DATE
ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY

REVISIONS

DESIGNED BY — DATE
DRAWN BY — DATE
CHECKED BY — DATE

26 | 1 7 0 0 2 3 8 4

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

TITLE:
TRAFFIC CONTROL

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	James Jaramillo	3-16-83
A C E - Design	G. Kellick	11 Mar 83	Traffic	[illegible]	3/10/83
A C E - Hydrology			Water	James Jaramillo	3-16-83

DRAWING NO. (WRD 82.15.23) 1700 | MAP NO. | SHEET 23 OF 23

N18921