CITY OF ALBUQUERQUE, NEW MEXICO

CONSTRUCTION PLANS FOR

INTEL SANITARY SEWER WESTERN TRAIL (PHASE III)

FROM COORS BLVD. TO
LIFT STATION #24

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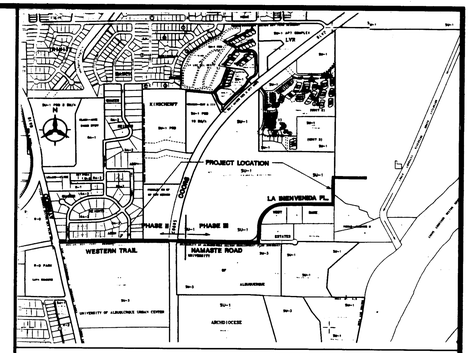


VICINITY MAP
NOT TO SCALE
F-11, F-12

NOTICE TO CONTRACTORS

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, WITH CURRENT UPDATES (NO. 5).
2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
4. THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
5. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED IN KIND BY CONTRACTOR TO LOCATION AND IN KIND AS EXISTING OR AS INDICATED BY THIS PLAN SET.
6. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY CITY SURVEY SECTION. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- [x] ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- [x] BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- [ ] TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- [ ] SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- [ ] IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- [ ] ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- [ ] THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

2 6 - 4 2 9 9 . 9 4 0 1 9 2

REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

APPROVAL OF REVISIONS

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
DATE 1-5-97

3/31/95

SCANNED BY
BY LASON

BOHANNAN HUSTON INC.
ALBUQUERQUE, NEW MEXICO
ENGINEERS PLANNERS PHOTOGRAMMETRISTS

APPROVED FOR CONSTRUCTION
3/12/95
C.E.

PROJECT NUMBER
4779.94

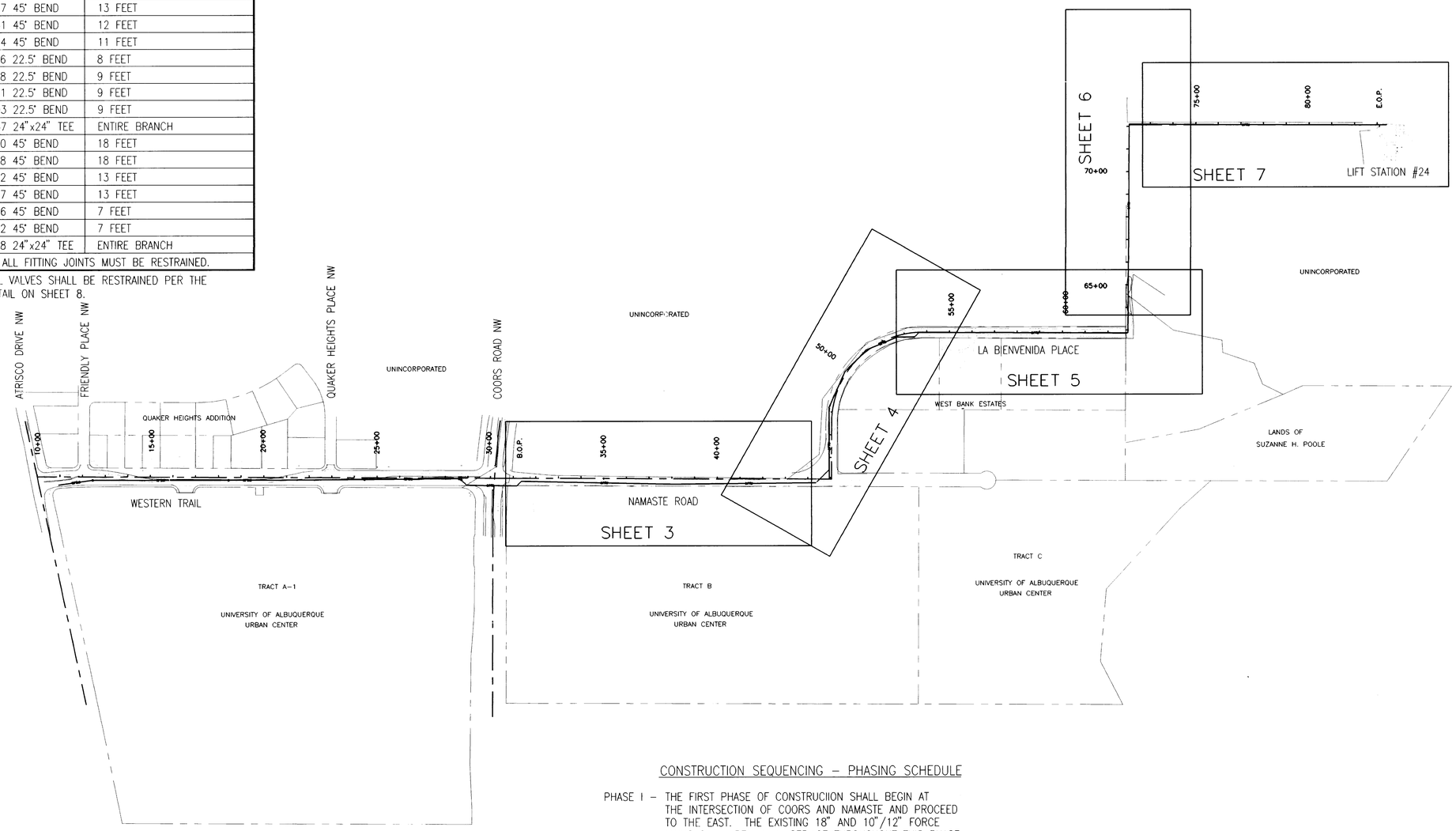
SHEET 1 OF 14

BHI JOB NO. 93252.21

FILENAME: 3WTCOVER.DWG 3-22-95

TABLE 1	
RESTRAINED JOINT LENGTH @	
STATION & FITTING *	LENGTH (EACH SIDE OF FITTING)
31+16 45° BEND (exist.)	13 FEET
31+41.07 45° BEND	13 FEET
44+37.51 45° BEND	12 FEET
45+52.14 45° BEND	11 FEET
48+23.16 22.5° BEND	8 FEET
49+93.68 22.5° BEND	9 FEET
51+13.31 22.5° BEND	9 FEET
52+59.03 22.5° BEND	9 FEET
53+00.57 24"x24" TEE	ENTIRE BRANCH
53+21.20 45° BEND	18 FEET
53+47.28 45° BEND	18 FEET
62+84.72 45° BEND	13 FEET
62+89.67 45° BEND	13 FEET
71+84.66 45° BEND	7 FEET
72+32.32 45° BEND	7 FEET
83+10.68 24"x24" TEE	ENTIRE BRANCH
* ALL FITTING JOINTS MUST BE RESTRAINED.	

@ ALL VALVES SHALL BE RESTRAINED PER THE DETAIL ON SHEET 8.



CONSTRUCTION SEQUENCING – PHASING SCHEDULE

PHASE I – THE FIRST PHASE OF CONSTRUCIION SHALL BEGIN AT THE INTERSECTION OF COORS AND NAMASTE AND PROCEED TO THE EAST. THE EXISTING 18" AND 10"/12" FORCE MAINS SHALL REMAIN IN SERVICE THROUGHOUT THIS PHASE. UPON INSTALLATION OF THE VALVE AT STA. 53+00.57 (See Sheet 4) AND CONNECTION TO THE EXISTING STUB OUT FROM THE 18" FORCE MAIN, THE 10"/12" LINE SHALL BE TAKEN OUT OF SERVICE AND THE NEW 24" PIPE PUT INTO SERVICE. ALL TESTING AND ACCEPTANCE BY THE CITY OF THE 24" PIPE SHALL BE COMPLETED PRIOR TO PLACING THE LINE INTO SERVICE. ALL REROUTING OF FORCE MAIN FLOWS SHALL BE CLOSELY COORDINATED WITH CITY PERSONNEL.

PHASE II – AFTER THE 10"/12" FORCE MAIN HAS BEEN TAKEN OUT SERVICE THE SECOND PHASE OF CONSTRUCTION CAN BEGIN. THIS PHASE SHALL BEGIN AT THE VALVE AT STA. 53+00.57 INSTALLED IN THE FIRST PHASE AND PROCEED TO THE END OF THE PROJECT. UPON COMPLETION OF PHASE II OPEN VALVE AT STA. 53+00.57.

250 125 0 250
SCALE: 1" = 250'

AS-BUILT INFORMATION
CONTRACTOR WORK STAKED BY New Concepts inc.
INSPECTOR'S ACCEPTANCE Contractor
FIELD VERIFICATION BY: B. Smith DATE 11/96
DRAWINGS CORRECTED BY: B. Smith DATE 12/96
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
THE BENCH MARK IS A 3-1/4" ALUMINUM CAP SET FLUSH ON THE MEDIAN AND IS STAMPED "ACS NM448-N5B 1986". THE BENCH MARK IS LOCATED AT THE INTERSECTION OF WESTERN TRAIL/NAMASTE RD. AND COORS RD. NW ON THE NORTH ISLAND OF COORS RD.
ELEVATION = 5106.31

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
	AERIAL PHOTO. BY BOHANNAN-HUSTON INC.	9/93

ENGINEER'S SEAL
3/31/95

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY DB DATE 1-95
DRAWN BY LAH DATE 1-95
CHECKED BY DJG DATE 1-95

7.4

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

INTEL SANITARY SEWER – WESTERN TRAIL (PHASE III)
OVERALL PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		5/12/95	WATER		5/9/95
TRANSPORTATION		5-02-95	WASTE WATER	"	"
HYDROLOGY		5-1-95			

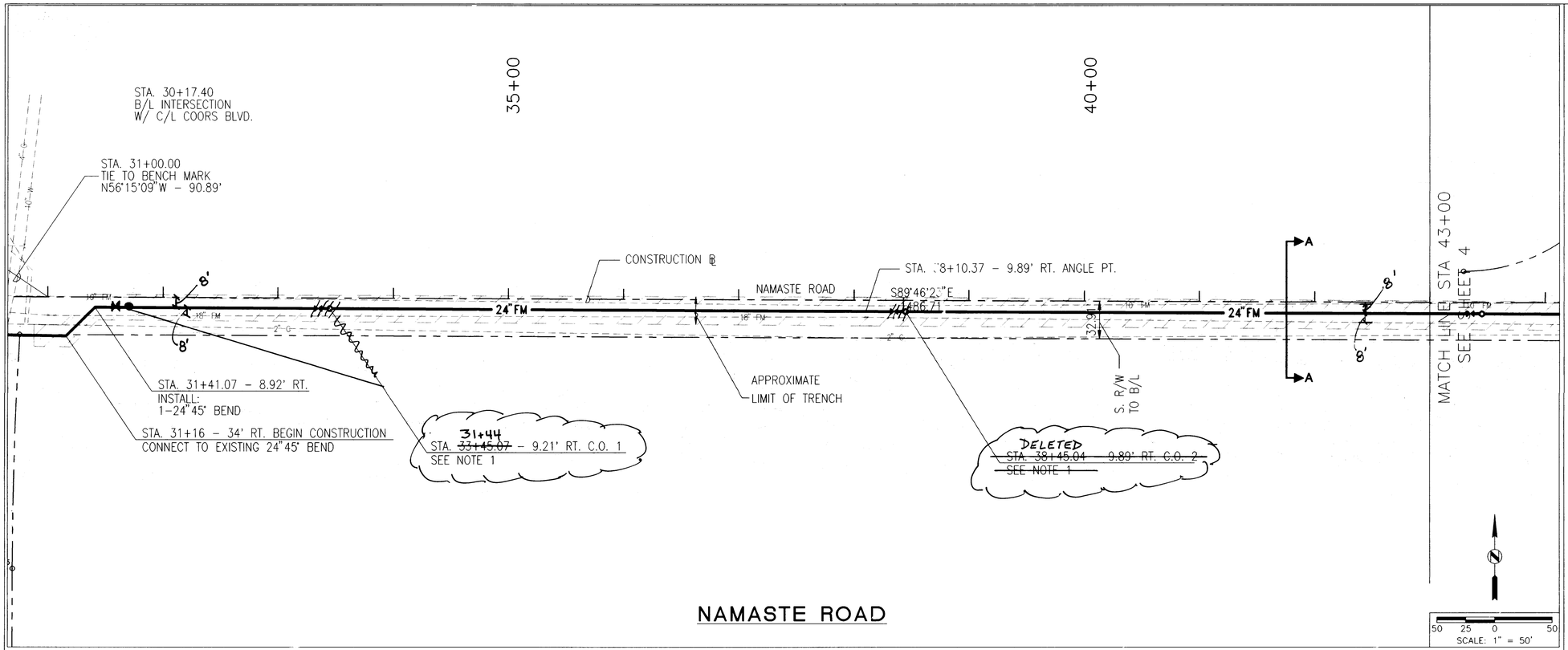
BHI JOB NO. 93252.21

DRAWING NO. 4779.94 | MAP NO. F-11,12 | SHEET: 2 OF 14

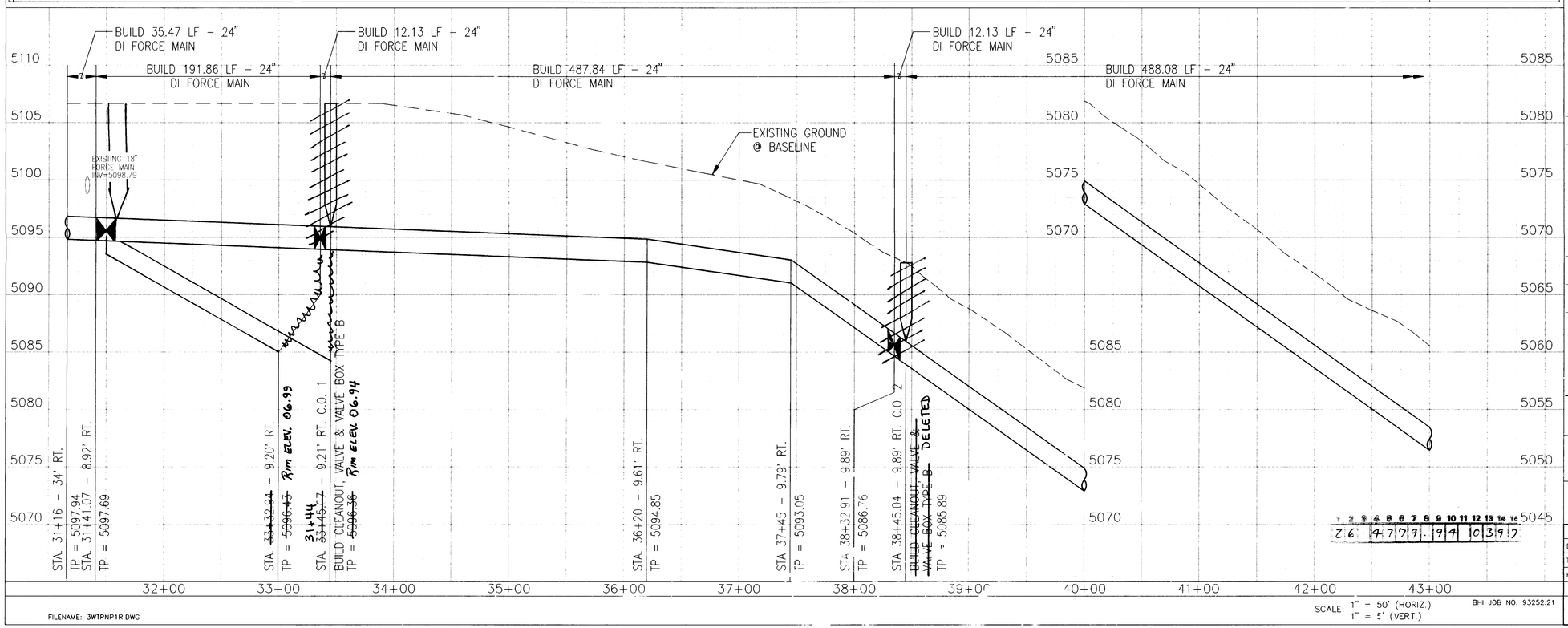
FILENAME: 3WTOVMPR.DWG

3-29-95

SCANNED BY
BY LASON



NAMASTE ROAD

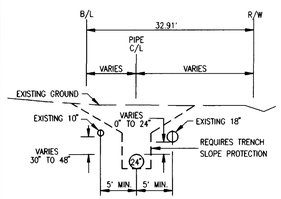


FILENAME: 3WTPNP1R.DWG

3-29-95

NOTES

1. SEE SHEET 8 FOR TYPICAL CLEANOUT AND PLUG VALVE DETAIL.
2. ADJUST CLEANOUT AND VALVE BOX RIM ELEVATIONS TO MATCH FINAL GRADE ELEVATION.
3. ALL FORCE MAIN FITTINGS SHALL REQUIRE RESTRAINED JOINTS PER THE SCHEDULE ON SHEET 2.
4. ALL FORCE MAIN PIPE SHALL BE D.I. PRESSURE CLASS 200 AND A TYPE 3 LAYING CONDITION EXCEPT WHERE INDICATED OTHERWISE.
5. THE CONTRACTOR SHALL KEEP THE EXISTING 18" AND 10" FORCE MAINS IN SERVICE DURING INSTALLATION OF THE 24" PIPE SHOWN ON THIS SHEET (SEE THE PHASING SCHEDULE ON SHEET 2).
6. CONTRACTOR SHALL MEET ALL OSHA REGULATIONS FOR TRENCHING.
7. ALL FORCE MAIN PIPE SHALL BE CEMENT MORTAR LINED.
8. NAMASTE ROAD SHALL BE SURFACED WITH A 2" X 24' LAYER OF GRAVEL BASE COURSE IN THE AREA DISTURBED BY CONSTRUCTION. THE ROADWAY SHALL BE GRADED TO MATCH EXISTING.



TYPICAL SECTION A-A
NOT TO SCALE

LEGEND

- EXISTING METER
- EXISTING FIRE HYDRANT
- EXISTING TRAFFIC CONTROL BOX
- EXISTING STORM DRAIN INLET
- EXISTING WATER METER
- EXISTING WATER LINE W/VALVE
- EXISTING SANITARY SEWER W/MH
- EXISTING GAS LINE
- EXISTING STORM DRAIN
- EXISTING FORCE MAIN
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- OVERHEAD POWER LINE
- NEW SANITARY SEWER W/MH
- NEW CLEANOUT AND VALVE
- NEW GAS LINE

AS-BUILT INFORMATION

CONTRACTOR	NEW CONCEPTS INC.	
WORK STAKED BY	CONTRACTOR	
INSPECTOR'S RECORDS BY	B. SMITH	DATE 11/96
FIELD VERIFICATION BY	B. SMITH	DATE 12/96
DRAWINGS CORRECTED BY	R. GREEN	DATE 12/96
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

BENCH MARKS

THE BENCH MARK IS A 3-1/4" ALUMINUM CAP SET FLUSH ON THE MEDIAN AND IS STAMPED "ACS NM448-N58 1986" THE BENCH MARK IS LOCATED AT THE INTERSECTION OF WESTERN TRAIL/ NAMASTE RD AND COORS RD. NW ON THE NORTH ISLAND OF COORS RD.
ELEVATION = 5106.31

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
	AERIAL PHOTO.	BY 9/93
	BOHANNAN-HUSTON INC.	

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY	DEB	DATE	1-95
DRAWN BY	LMH	DATE	1-95
CHECKED BY	DJG	DATE	1-95

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

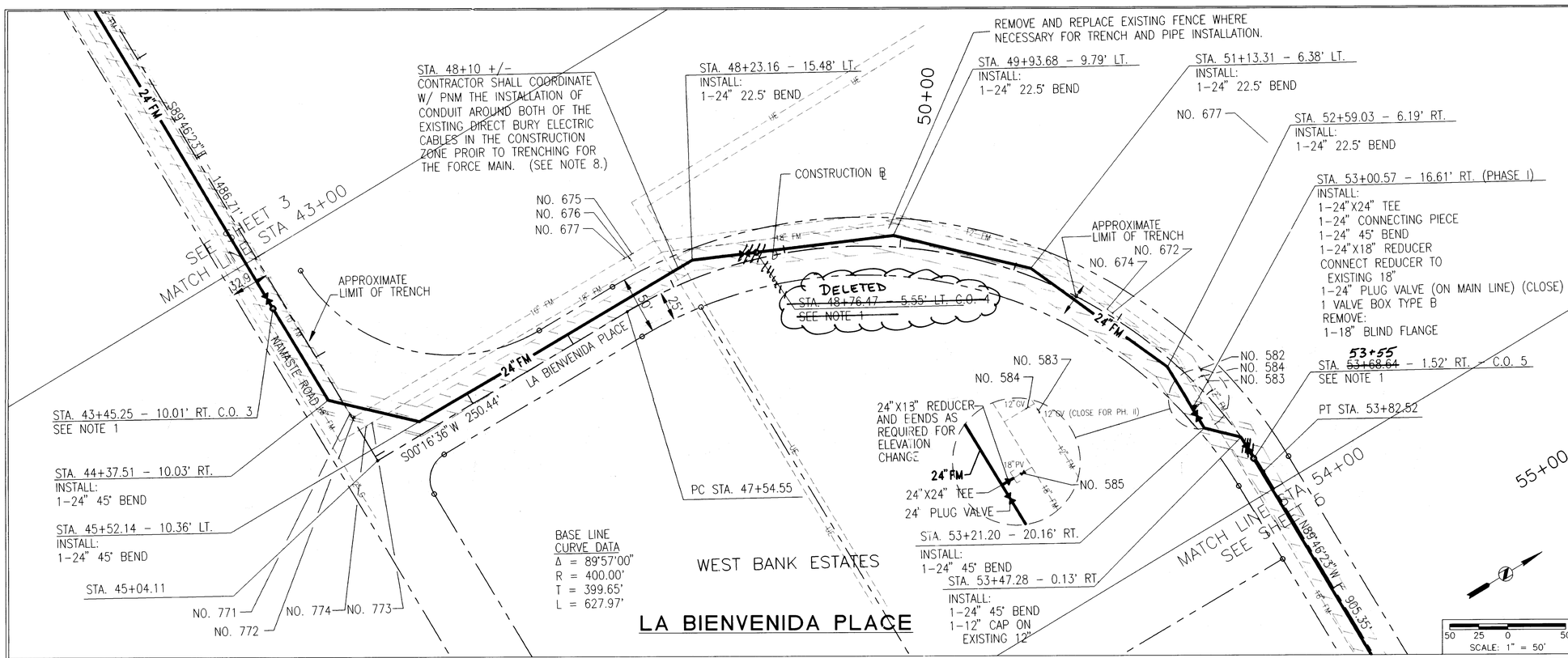
INTEL SANITARY SEWER - WESTERN TRAIL (PHASE III)
SEWER PLAN & PROFILE
STA. B.O.P. TO 43+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.J. Bailey	5-12-95	WATER	Jorge A. Chacon	5/9/95
TRANSPORTATION	N/A	5-02-95	WASTE WATER	"	"
HYDROLOGY		5-1-95			

DRAWING NO.	MAP NO.	SHEET:
4779.94	F-11	3 OF 14

26 4779.94 0397

SCANNED BY BY LASON



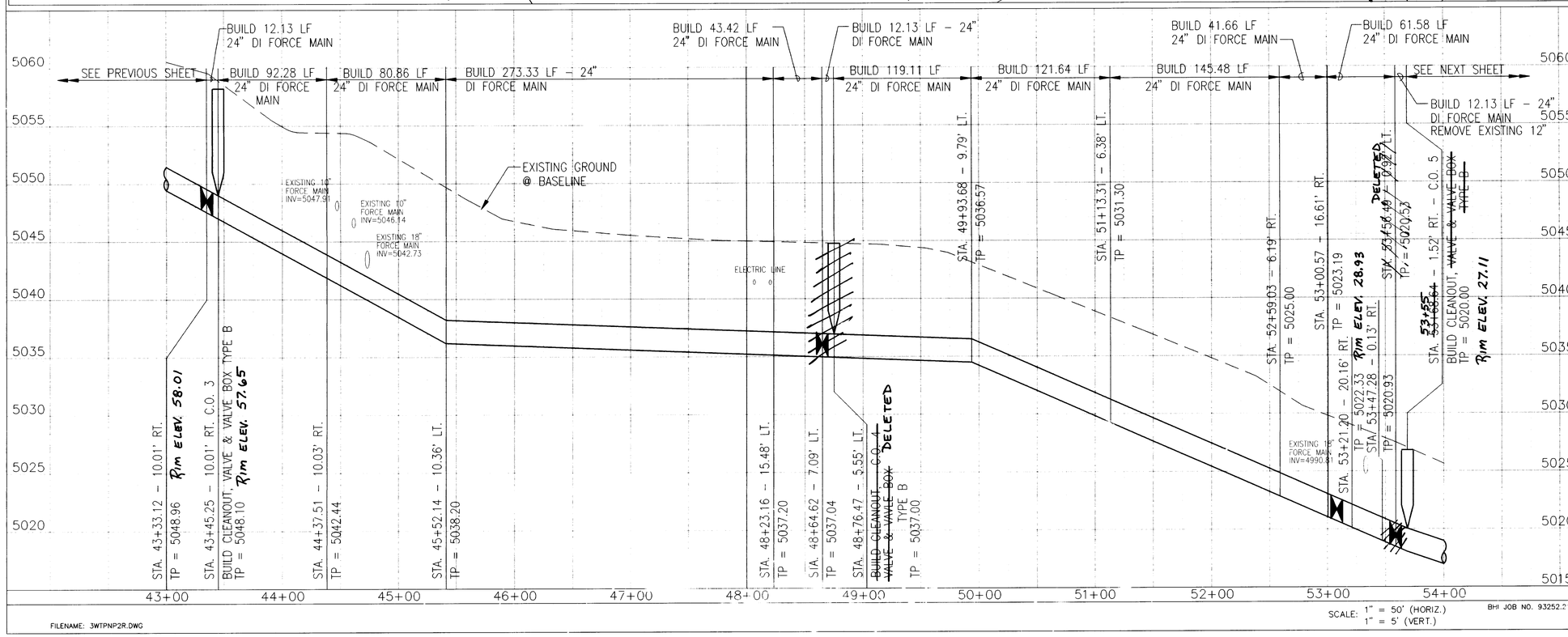
NOTES

1. SEE SHEET 8 FOR TYPICAL CLEANOUT AND PLUG VALVE DETAIL.
2. ADJUST CLEANOUT AND VALVE BOX RIM ELEVATIONS TO MATCH FINAL GRADE ELEVATIONS.
3. ALL FORCE MAIN FITTINGS SHALL REQUIRE RESTRAINED JOINTS PER THE SCHEDULE ON SHEET 2.
4. ALL FORCE MAIN PIPE SHALL BE D.I. PRESSURE CLASS 200 AND A TYPE 3 LAYING CONDITION EXCEPT WHERE INDICATED OTHERWISE.
5. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING 12" FORCE MAIN AND APPURETNANCES EAST OF STA. 53+23, ALL OTHER EXISTING 10", 12" AND 18" FORCE MAINS SHALL REMAIN IN SERVICE DURING INSTALLATION OF THE 24" PIPE SHOWN ON THIS SHEET (SEE THE PHASING SCHEDULE ON SHEET 2).
6. CONTRACTOR SHALL MEET ALL OSHA REGULATIONS FOR TRENCHING.
7. ALL FORCE MAIN PIPE SHALL BE CEMENT MORTAR LINED.
8. THE CONTRACTOR SHALL NOTIFY PNM FOUR WEEKS PRIOR TO WORKING IN THE AREA OF THE UNDER-GROUND ELECTRICAL CABLES TO ALLOW PNM TO INSTALL 40 FEET OF CONDUIT ON THE LINES. THE CONTRACTOR SHALL STAKE THE CENTER LINE OF THE FORCE MAIN AT LEAST FOUR WEEKS PRIOR TO BEGINNING WORK IN THIS AREA. THE CONTRACTOR SHALL NOTIFY PNM PRIOR TO WORKING IN THIS AREA SO THAT PNM CAN INSPECT THE CONTRACTOR'S METHOD OF SUPPORTING THE CABLES.
9. NAMASTE ROAD AND LA BIENVENDIA PLACE SHALL BE SURFACED WITH A 2" X 24' LAYER OF GRAVEL BASE COURSE IN THE AREA DISTURBED BY CONSTRUCTION. THE ROADWAY SHALL BE GRADED TO MATCH EXISTING.

26 47 79 94 04 97

LEGEND

- EXISTING METER
- EXISTING FIRE HYDRANT
- EXISTING TRAFFIC CONTROL BOX
- EXISTING STORM DRAIN INLET
- EXISTING WATER LINE W/VALVE
- EXISTING SANITARY SEWER W/MH
- EXISTING GAS LINE
- EXISTING STORM DRAIN
- EXISTING FORCE MAIN
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- OVERHEAD POWER LINE
- NEW SANITARY SEWER W/MH
- NEW CLEANOUT AND VALVE
- NEW GAS LINE



FILENAME: 3WTPNP2R.DWG

3-29-95

AS-BUILT INFORMATION

CONTRACTOR	NEW CONCEPTS INC.
WORK STAKED BY	CONTRACTOR
ACCEPTANCE BY	B. SMITH DATE 11/96
FIELD VERIFICATION BY	B. SMITH DATE 12/96
DRAWINGS CORRECTED BY	R. GREEN DATE 12/96
MICRO-FILM INFORMATION	
RECORDED BY	DATE
ISLAND OF COORS RD.	
ELEVATION = 5106.31	
NO.	

BENCH MARKS

THE BENCH MARK IS A 3-1/4" ALUMINUM CAP SET FLUSH ON THE MEDIAN AND IS STAMPED "ACS NM448-N58 1986". THE BENCH MARK IS LOCATED AT THE INTERSECTION OF WESTERN TRAIL/ NAMASTE RD. AND COORS RD. NW ON THE NORTH ISLAND OF COORS RD.

ELEVATION = 5106.31

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
	AERIAL PHOTO. BY	9/93
	BOHANNAN-HUSTON INC.	

ENGINEER'S SEAL

31/31/95

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

		DATE
DESIGNED BY	DEB	1-95
DRAWN BY	LAH	1-95
CHECKED BY	DJG	1-95

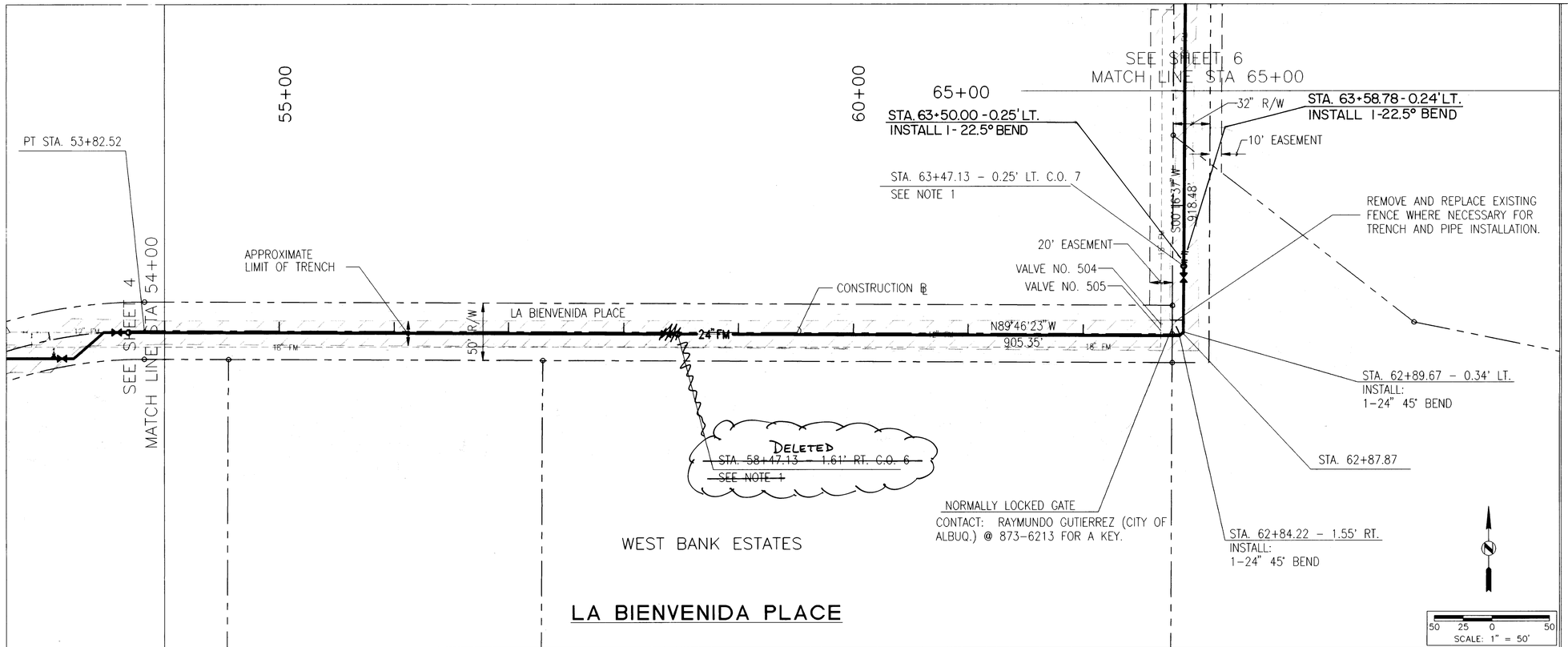
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

INTEL SANITARY SEWER – WESTERN TRAIL (PHASE III)
SEWER PLAN & PROFILE
STA. 43+00 TO 54+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.A. Brockley	5-12-95	WATER	Roger L. Green	5/9/95
TRANSPORTATION	W.H. Ohlo	5-02-95	WASTE WATER	"	"
HYDROLOGY	RCM	5-1-95			

DRAWING NO.	MAP NO.	SHEET:
4779.94	F-11	4 OF 14

SCANNED BY BY LASON



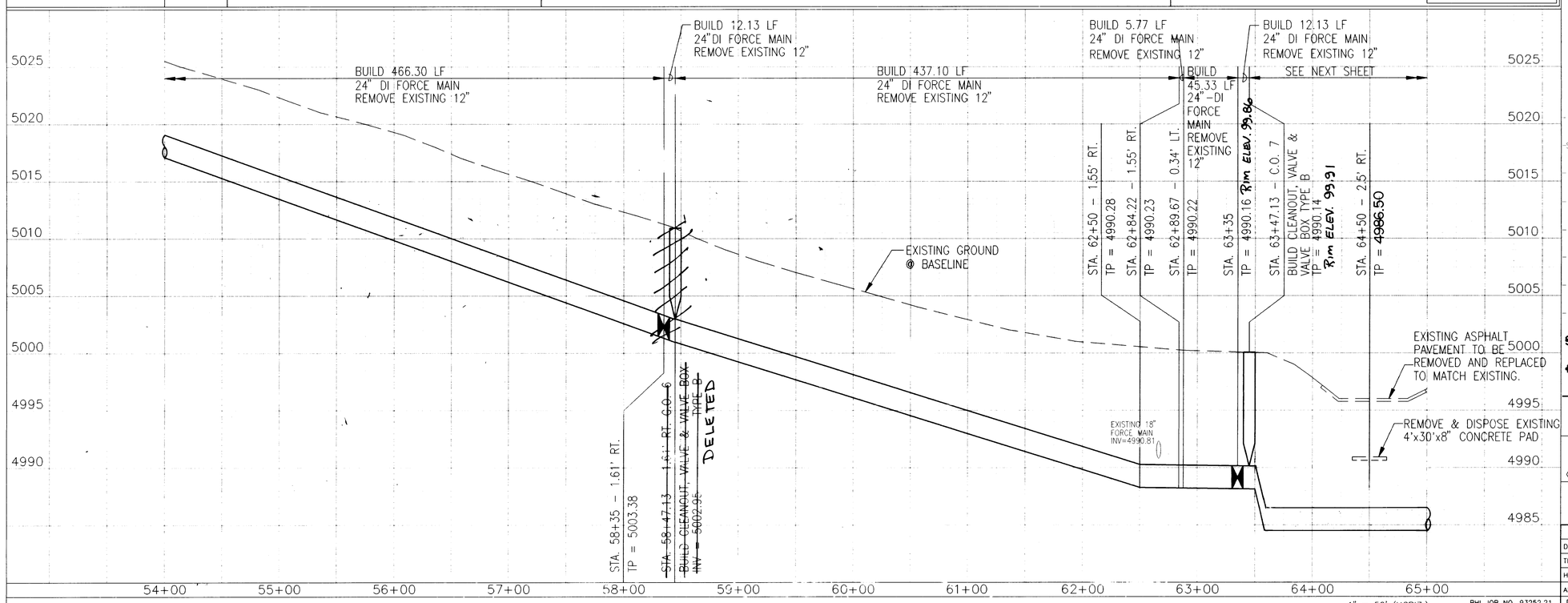
NOTES

1. SEE SHEET 8 FOR TYPICAL CLEANOUT AND PLUG VALVE DETAIL.
2. ADJUST CLEANOUT AND VALVE RIM ELEVATIONS TO MATCH FINAL GRADE ELEVATIONS.
3. ALL FORCE MAIN FITTINGS SHALL REQUIRE RESTRAINED JOINTS PER THE SCHEDULE ON SHEET 2.
4. ALL FORCE MAIN PIPE SHALL BE D.I. PRESSURE CLASS 200 AND A TYPE 3 LAYING CONDITION EXCEPT WHERE INDICATED OTHERWISE.
5. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING 12" FORCE MAIN AND APPURTENANCES.
6. CONTRACTOR SHALL MEET ALL OSHA REGULATIONS FOR TRENCHING.
7. ALL FORCE MAIN PIPE SHALL BE CEMENT MORTAR LINED.
8. LA BIENVENIDA PLACE SHALL BE SURFACED WITH A 2" X 24' LAYER OF GRAVEL BASE COURSE IN THE AREA DISTURBED BY CONSTRUCTION. THE ACCESS ROAD EAST OF THE GATE AT THE END OF LA BIENVENIDA PLACE SHALL BE SURFACED WITH A 2" X 15' LAYER OF GRAVEL BASE COURSE IN THE AREA DISTURBED BY CONSTRUCTION. THE ROADWAYS SHALL BE GRADED TO MATCH EXISTING.

1 2 3 4 5 6 7 8 9 10 11 12 13 14
26 4779.94 0.397

LEGEND

- EXISTING METER
- EXISTING FIRE HYDRANT
- EXISTING TRAFFIC CONTROL BOX
- EXISTING STORM DRAIN INLET
- W — EXISTING WATER LINE W/VALVE
- SAS — EXISTING SANITARY SEWER W/MH
- G — EXISTING GAS LINE
- SD — EXISTING STORM DRAIN
- FM — EXISTING FORCE MAIN
- UE — UNDERGROUND ELECTRIC
- UT — UNDERGROUND TELEPHONE
- P — OVERHEAD POWER LINE
- SAS — NEW SANITARY SEWER W/MH
- NEW CLEANOUT AND VALVE
- GAS — NEW GAS LINE



SCALE: 1" = 50' (HORIZ.)
1" = 5' (VERT.)

BHI JOB NO. 93252.21

FILENAME: 3WTPNP3R.DWG

3-29-95

AS-BUILT INFORMATION
CONTRACTOR NEW CONCEPTS INC.
WORK STAKED BY CONTRACTOR
INSPECTOR'S ACCEPTANCE BY B. SMITH DATE 11/96
FIELD VERIFICATION BY B. SMITH DATE 11/96
DRAWINGS CORRECTED BY R. GREEN DATE 12/96
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
THE BENCH MARK IS A 3-1/4" ALUMINUM CAP SET FLUSH ON THE MEDIAN AND IS STAMPED "ACS NM448-N58 1986" THE BENCH MARK IS LOCATED AT THE INTERSECTION OF WESTERN TRAIL/ NAMASTE RD. AND COORS RD. NW ON THE NORTH ISLAND OF COORS RD.
ELEVATION = 5106.31

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
	AERIAL PHOTO.	BY 9/93
	BOHANNAN	
	HUSTON INC.	

ENGINEER'S SEAL
Bernadette Quintana
3/29/95

NO.	DATE	BY	REMARKS
			REVISIONS
			DESIGN

DESIGNED BY	DEB	DATE 1-95
DRAWN BY	LAH	DATE 1-95
CHECKED BY	DJG	DATE 1-95

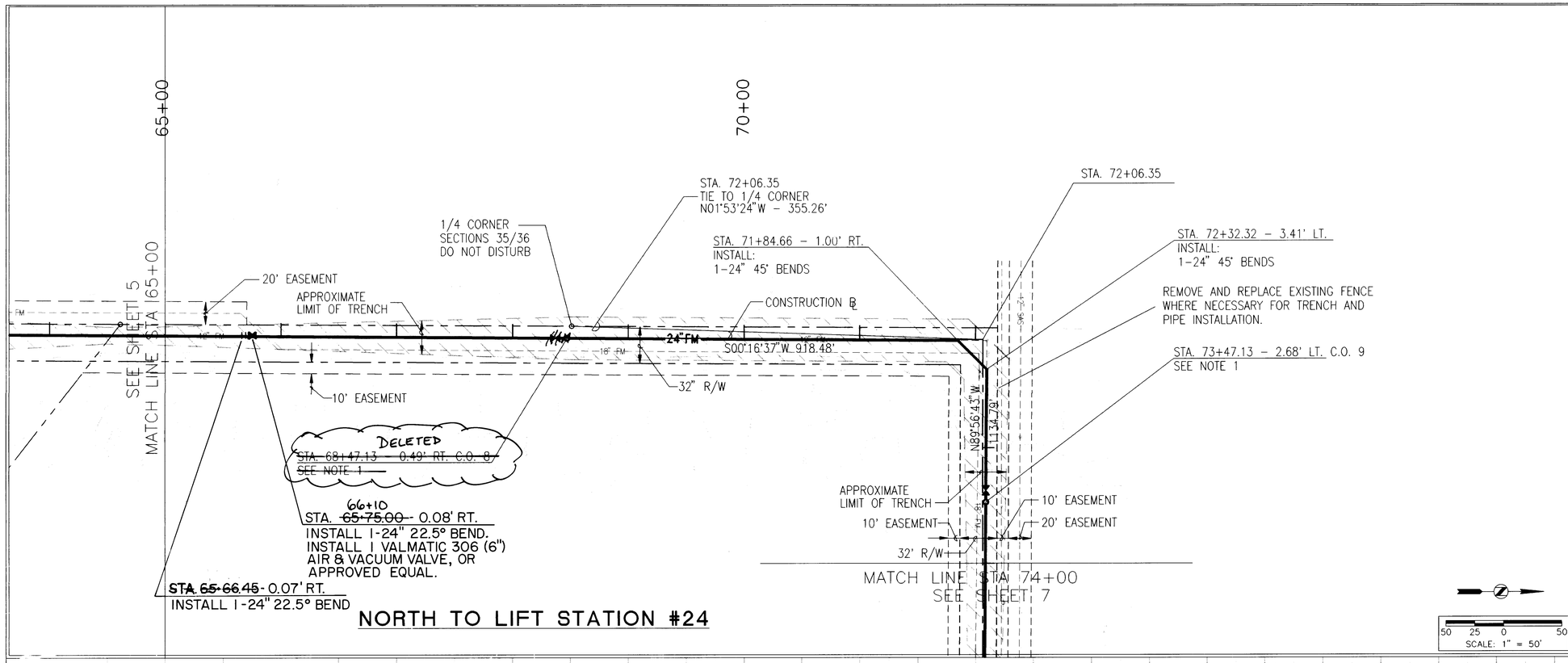
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

INTEL SANITARY SEWER - WESTERN TRAIL (PHASE III)
SEWER PLAN & PROFILE
STA. 54+00 TO 65+00

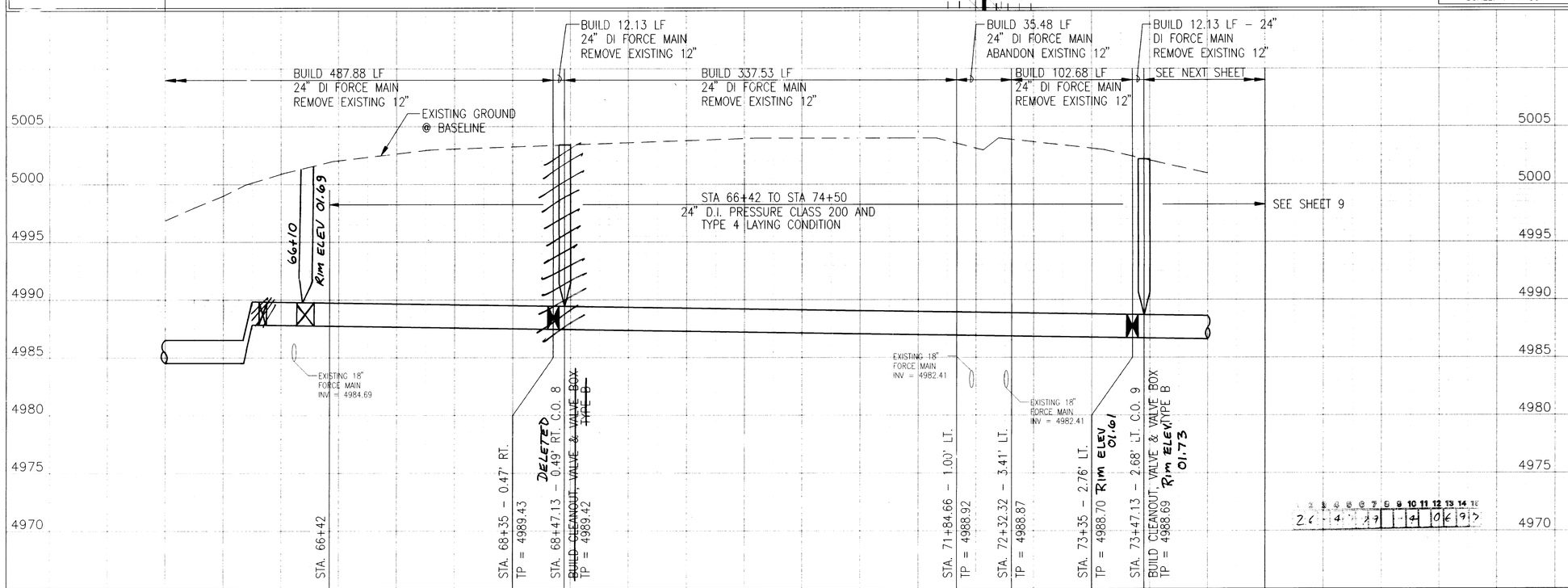
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.J. Bradley	5-12-95	WATER	Roger L. Shaw	5/9/95
TRANSPORTATION	NA LHD	5-02-95	WASTE WATER	"	"
HYDROLOGY	PAH	5-1-95			
AMAFCA	John Kelly	5-8-95			

DRAWING NO. 4779.94 | MAP NO. F-11 | SHEET: 5 OF 14

SCANNED BY BY LASON



NORTH TO LIFT STATION #24



FILENAME: 3WTPNP4R.DWG

SCALE: 1" = 50' (HORIZ.)
1" = 5' (VERT.)

BHI JOB NO. 93252.21

3-29-95

NOTES

1. SEE SHEET 8 FOR TYPICAL CLEANOUT AND PLUG VALVE DETAIL.
2. ADJUST CLEANOUT AND VALVE BOX RIM ELEVATIONS TO MATCH FINAL GRADE ELEVATION.
3. ALL FORCE MAIN FITTINGS SHALL REQUIRE RESTRAINED JOINTS PER THE SCHEDULE ON SHEET 2.
4. ALL FORCE MAIN PIPE SHALL BE D.I. PRESSURE CLASS 200 AND A TYPE 3 LAYING CONDITION EXCEPT WHERE INDICATED OTHERWISE.
5. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING 12" FORCE MAIN AND APPURTENANCES.
6. CONTRACTOR SHALL MEET ALL OSHA REGULATIONS FOR TRENCHING.
7. ALL FORCE MAIN PIPE SHALL BE CEMENT MORTAR LINED.
8. THE ACCESS ROAD SHALL BE SURFACED WITH A 2" X 15' LAYER OF GRAVEL BASE COURSE IN THE AREA DISTURBED BY CONSTRUCTION. THE ROADWAY SHALL BE GRADED TO MATCH EXISTING.

LEGEND

- EXISTING METER
- EXISTING FIRE HYDRANT
- EXISTING TRAFFIC CONTROL BOX
- EXISTING STORM DRAIN INLET
- EXISTING WATER LINE W/VALVE
- EXISTING SANITARY SEWER W/MH
- EXISTING GAS LINE
- EXISTING STORM DRAIN
- EXISTING FORCE MAIN
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- OVERHEAD POWER LINE
- SAS — NEW SANITARY SEWER W/MH
- NEW CLEANOUT AND VALVE
- GAS — NEW GAS LINE

AS-BUILT INFORMATION

CONTRACTOR	NEW CONCEPTS INC.
WORK STAKED BY	CONTRACTOR
INSPECTOR'S ACCEPTANCE BY	B. SMITH DATE 11/9/95
FIELD VERIFICATION BY	B. SMITH DATE 12/96
DRAWINGS CORRECTED BY	R. GREEN DATE 12/96
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS

THE BENCH MARK IS A 3-1/4" ALUMINUM CAP SET FLUSH ON THE MEDIAN AND IS STAMPED "ACS NM448-NSB 1986" THE BENCH MARK IS LOCATED AT THE INTERSECTION OF WESTERN TRAIL/ NAMASTE RD. AND COORS RD. NW ON THE NORTH ISLAND OF COORS RD.
ELEVATION = 5106.31

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
	AERIAL PHOTO.	BY 9/93
	BOHANNAN-HUSTON INC.	

ENGINEER'S SEAL

Richard C. Johnson 3/31/95

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

		DATE
DESIGNED BY	DEB	1-95
DRAWN BY	LAH	1-95
CHECKED BY	DJG	1-95

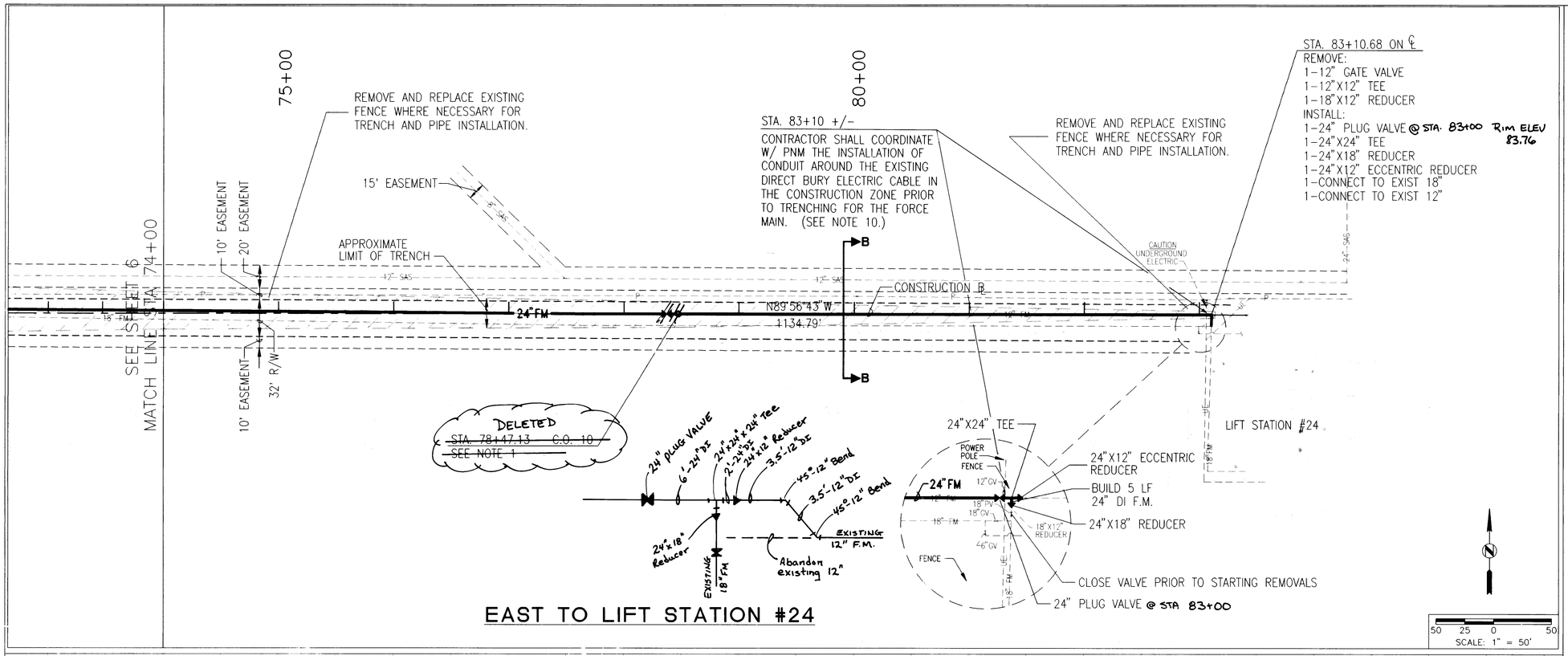
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

INTEL SANITARY SEWER - WESTERN TRAIL (PHASE III)
SEWER PLAN & PROFILE
STA. 65+00 TO 74+00

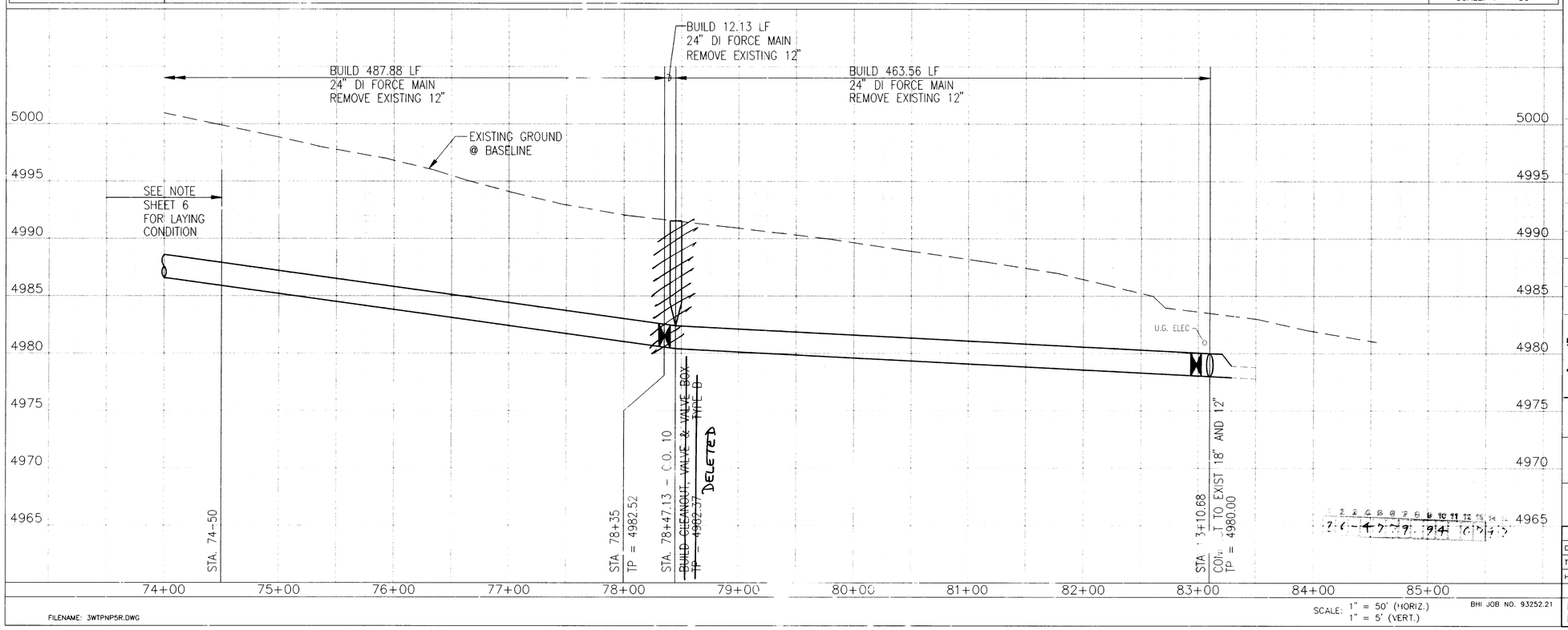
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.J. Bobby	5-12-95	WATER	Richard Green	5/7/95
TRANSPORTATION	DMA LHB	5-02-95	WASTE WATER	"	"
HYDROLOGY	RCL	5-1-95			
AMAFCA	John K. Bly	5-12-95			

DRAWING NO.	MAP NO.	SHEET:
4779.94	F-11,12	6 OF 14

SCANNED BY BY LASON



EAST TO LIFT STATION #24



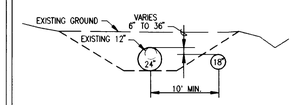
SCALE: 1" = 50' (HORIZ.)
1" = 5' (VERT.)

BHI JOB NO. 93252.21

FILENAME: 3WTPNP5R.DWG

NOTES

1. SEE SHEET 8 FOR TYPICAL CLEANOUT AND PLUG VALVE DETAIL.
2. ADJUST CLEANOUT AND VALVE BOX RIM ELEVATION TO MATCH FINAL GRADE ELEVATION.
3. ALL FORCE MAIN FITTINGS SHALL REQUIRE RESTRAINED JOINTS PER THE SCHEDULE ON SHEET 2.
4. ALL FORCE MAIN PIPE SHALL BE D.I. PRESSURE CLASS 200 AND A TYPE 3 LAYING CONDITION EXCEPT WHERE INDICATED OTHERWISE.
5. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING 12" FORCE MAIN AND APPURTENANCES.
6. THE CONTRACTOR SHALL COORDINATE THE CONNECTION TO THE 18" LINE WITH CITY LIFT STATION PERSONNEL.
7. CONTRACTOR SHALL MEET ALL OSHA REGULATIONS FOR TRENCHING.
8. ALL FORCE MAIN PIPE SHALL BE CEMENT MORTAR LINED.
9. THE ACCESS ROAD SHALL BE SURFACED WITH A 2" X 15' LAYER OF GRAVEL BASE COURSE IN THE AREA DISTURBED BY CONSTRUCTION. THE ROADWAY SHALL BE GRADED TO MATCH EXISTING.
10. THE CONTRACTOR SHALL NOTIFY PNM FOUR WEEKS PRIOR TO WORKING IN THE AREA OF THE UNDER-GROUND ELECTRICAL CABLE TO ALLOW PNM TO INSTALL CONDUIT ON THE LINE. THE CONTRACTOR SHALL STAKE THE CENTER LINE OF THE FORCE MAIN AT LEAST FOUR WEEKS PRIOR TO BEGINNING WORK IN THIS AREA. THE CONTRACTOR SHALL NOTIFY PNM PRIOR TO WORKING IN THIS AREA SO THAT PNM CAN INSPECT THE CONTRACTOR'S METHOD OF SUPPORTING THE CABLE.



TYPICAL SECTION B-B
NOT TO SCALE

LEGEND

- EXISTING METER
- EXISTING FIRE HYDRANT
- EXISTING TRAFFIC CONTROL BOX
- EXISTING STORM DRAIN INLET
- W — EXISTING WATER LINE W/VALVE
- SAS — EXISTING SANITARY SEWER W/MH
- G — EXISTING GAS LINE
- SD — EXISTING STORM DRAIN
- FM — EXISTING FORCE MAIN
- UE — UNDERGROUND ELECTRIC
- UT — UNDERGROUND TELEPHONE
- P — OVERHEAD POWER LINE
- SAS — NEW SANITARY SEWER W/MH
- NEW CLEANOUT AND VALVE
- GAS — NEW GAS LINE

AS-BUILT INFORMATION

CONTRACTOR NEW CONCEPTS INC.
STAKED BY CONTRACTOR DATE
INSPECTOR'S ACCEPTANCE BY B. SMITH DATE 11/96
FIELD VERIFICATION BY B. SMITH DATE 12/96
DRAWINGS CORRECTED BY R. GREEN DATE 12/96
MICRO-FILM INFORMATION
RECORDED BY DATE
ISLAND OF COORS RD.
ELEVATION = 5106.31
NO.

BENCH MARKS

THE BENCH MARK IS A 3-1/4" ALUMINUM CAP SET FLUSH ON THE MEDIAN AND IS STAMPED "ACS NM448-N5B 1986" THE BENCH MARK IS LOCATED AT THE INTERSECTION OF WESTERN TRAIL/ NAMASTE RD. AND COORS RD. NW ON THE NORTH ISLAND OF COORS RD.
ELEVATION = 5106.31

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
	AERIAL PHOTO. BY	9/93
	BOHANNAN-HUSTON INC.	

ENGINEER'S SEAL

3/31/95

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

		DATE
DESIGNED BY	DEB	1-95
DRAWN BY	LAH	1-95
CHECKED BY	DJG	1-95

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

INTEL SANITARY SEWER - WESTERN TRAIL (PHASE III)
SEWER PLAN & PROFILE
STA. 74+00 TO E.O.P.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		5-12-95	WATER		5/9/95
TRANSPORTATION		5-02-95	WASTE WATER	"	"
HYDROLOGY		5-1-95			

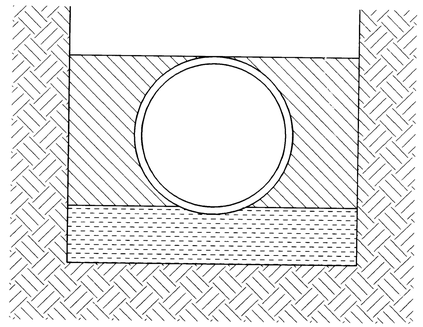
DRAWING NO.	MAP NO.	SHEET:
4779.94	F-12	7 OF 14

3-29-95

SCANNED BY BY LASON

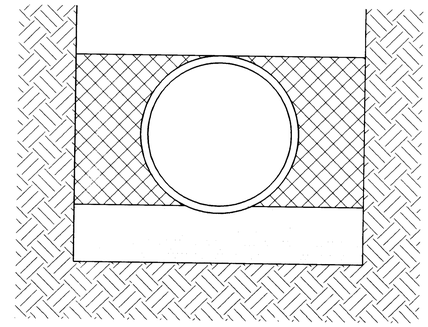
STANDARD PIPE LAYING CONDITIONS PER AWWA C150, FIG. 50.1 AND TABLE 50.2.

TYPE 3 – PIPE BEDDED IN 4-IN. MINIMUM NATIVE SOIL EXCAVATED FROM THE TRENCH, FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE.



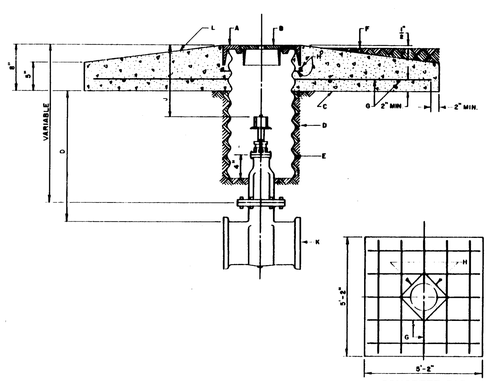
AWWA TYPE 3 TRENCH
NOT TO SCALE

TYPE 4 – PIPE BEDDED IN SAND, GRAVEL, OR CRUSHED STONE TO DEPTH OF 1/8 PIPE DIAMETER, 4-IN. MINIMUM. BACKFILL COMPACTED TO TOP OF PIPE. (APPROXIMATLEY 80 PERCENT STANDARD PROCTOR, AASHTO T-99)



AWWA TYPE 4 TRENCH
NOT TO SCALE

PIPE INSTALLATION SHALL MEET THE REQUIREMENTS OF SECTIONS 129, 701 AND 801 OF THE SPECIFICATIONS.



CONCRETE PAD PLAN VIEW

VALVE BOX TYPE "B"
NOT TO SCALE

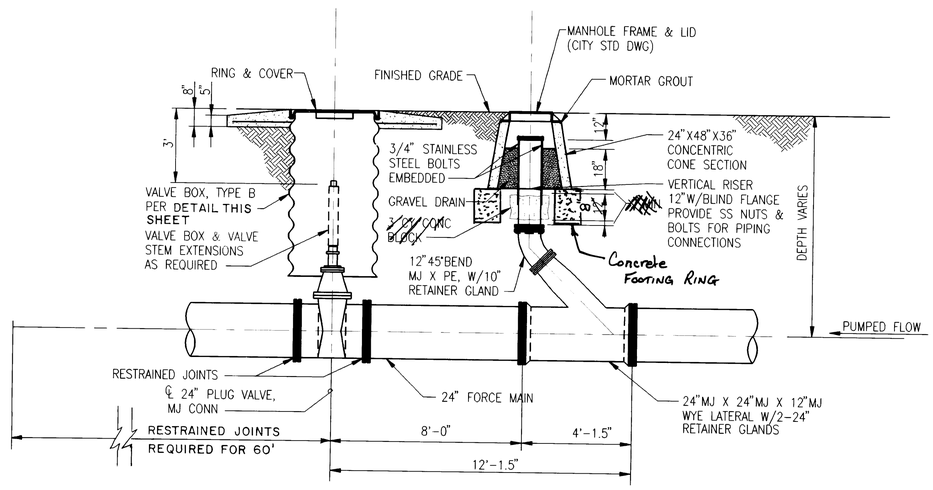
GENERAL NOTES:

1. SIDES OF CONC. PAD TO BE PARALLEL AND PERPENDICULAR TO THE NORMAL STREET TRAFFIC FLOW.
2. USE THIS TYPE VALVE BOX FOR LOCATION IN UNPAVED STREETS OR ALLEYS AND IN NON-TRAFFIC EASEMENTS.

CONSTRUCTION NOTES:

A. RING.
B. COVER.
C. PORTLAND CEMENT CONC. 3000 P.S.I.
D. COMPACTED EARTH FILL, 95% OF MAX. DENSITY AS DETERMINED BY A.S.T.M. D 1557.
✳ E. 12" DIA. CORRUGATED GALV. CULVERT PIPE (4 GA. DIPPED IN COAL TAR ENAMEL OR COATED WITH POLYMERIC COATING. 3 MILS THICK MIN. MEETING REQUIREMENTS SET BY A.A.S.H.T.O. M 246.
F. GROUND LEVEL.
G. NO. 4 BARS AT 12" O.C. EACH WAY.
H. NO. 4 BARS 1'-6" LONG.
J. 2'-0" MAX., USE STEM EXTENSION AS NECESSARY, SEE DWG. 2330, 2331.
K. NEW OR EXISTING VALVE.
L. SCRIBE IN THE FRESH CONCRETE THE SIZE OF THE VALVE.

✳ 10" DIAMETER CORRUGATED OR RIBBED PVC OR PE PIPE WITH A SMOOTH INTERIOR WALL MAY BE SUBSTITUTED FOR 12" DIAMETER CMP. TRIM PIPE RIBS OR CORRUGATIONS IF NECESSARY TO RECEIVE VALVE BOX RING AND COVER.



CLEANOUT AND VALVE DETAIL
NOT TO SCALE

NOTES:

1. FOR CLEANOUT, PROVIDE REMOVABLE "T" HANDLE BAR LOCKING STYLE MH LID, NEENAH TYPE J OR EQUAL.

AS-BUILT INFORMATION

CONTRACTOR: New Concepts INC.
WORK STAKED BY: CONTRACTOR
INSPECTOR ACCEPTANCE BY: B. SMITH DATE 12/96
FIELD VERIFICATION BY: B. SMITH DATE 12/96
DRAWINGS CORRECTED BY: R. GREEN DATE 12/96
MICRO-FILM INFORMATION
RECORDED BY: DATE
NO.

BENCH MARKS

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ELEVATION = 5106.31

SURVEY INFORMATION

NO.	BY	DATE

FIELD NOTES

ENGINEER'S SEAL

3/31/95

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

		DATE
DESIGNED BY	DB	1-95
DRAWN BY	LAH	1-95
CHECKED BY	DJG	1-95

76-47 74 1689

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

INTEL SANITARY SEWER – WESTERN TRAIL (PHASE III)
MISCELLANEOUS DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		5-12-95	WATER		5/9/95
TRANSPORTATION	N/A	5-02-95	WASTE WATER	"	"
HYDROLOGY		5-1-95			

DRAWING NO. 4779.94 | MAP NO. F-11,12 | SHEET: 8 OF 14

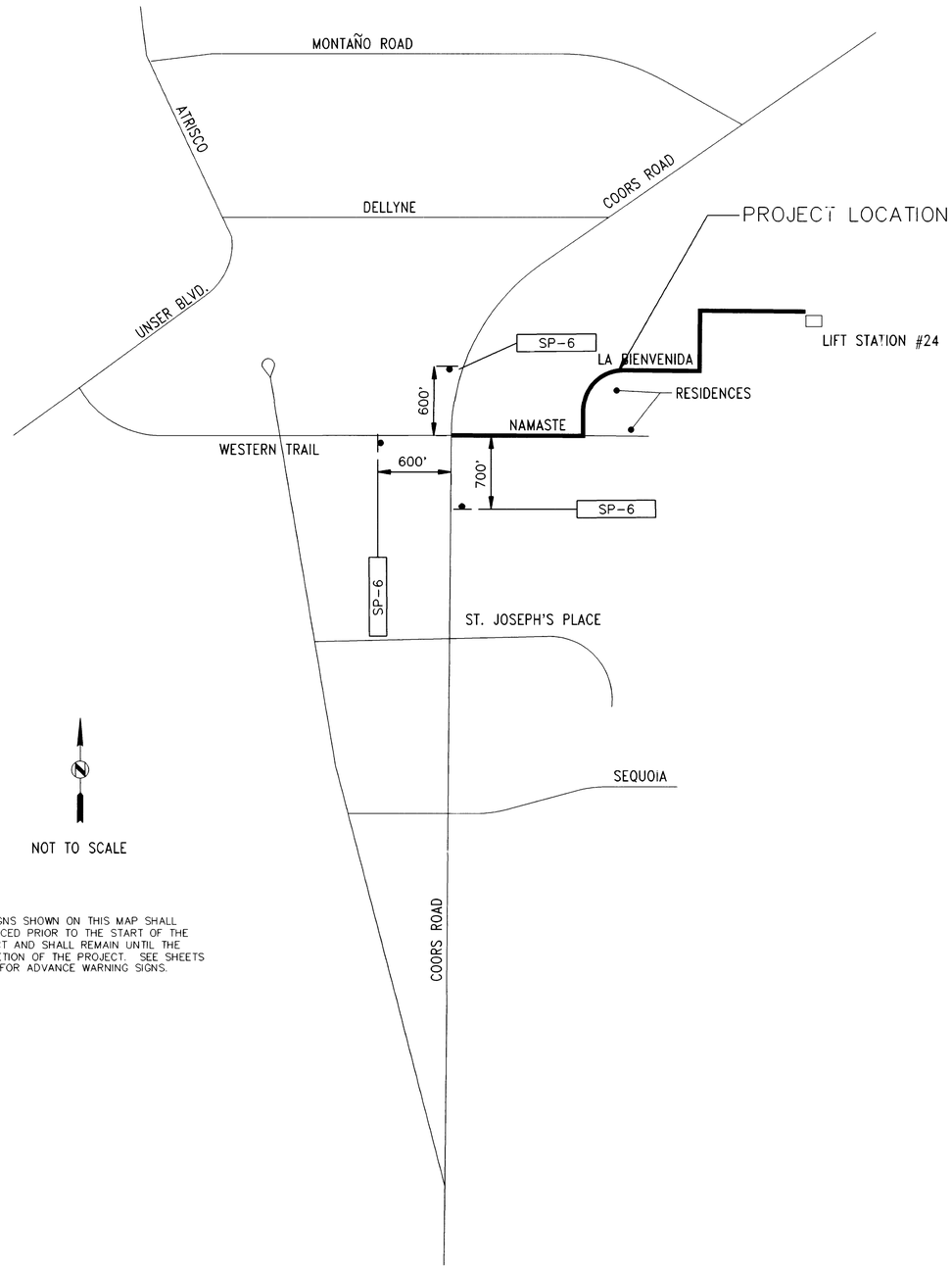
FILENAME: 3WTDETLS.DWG

SCALE: AS SHOWN

BHI JOB NO. 93252.21

3-23-95

SCANNED BY BY LASON

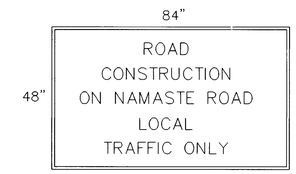


NOT TO SCALE

NOTE

ALL SIGNS SHOWN ON THIS MAP SHALL BE PLACED PRIOR TO THE START OF THE PROJECT AND SHALL REMAIN UNTIL THE COMPLETION OF THE PROJECT. SEE SHEETS 10-12 FOR ADVANCE WARNING SIGNS.

W20-1a-48



SP-6

OVERALL TRAFFIC CONTROL MAP

SEQUENCE OF CONSTRUCTION

PHASE I

1. CLOSE NORTH SIDE OF NAMASTE ROAD AND THE WEST SIDE OF LA BIENVENIDA PLACE.
   BUILD NEW SAS IN NAMASTE ROAD AND LA BIENVENIDA PLACE.
2. SEE SHEETS 10 FOR DETAILS.

PHASE II

1. CLOSE NORTH SIDE OF LA BIENVENIDA PLACE.
   BUILD NEW SAS LINES IN LA BIENVENDIA PLACE.

GENERAL NOTES

1. ACCESS SHALL BE MAINTAINED AT ALL TIMES TO THE RESIDENT ON NAMASTE ROAD & THE RESIDENT ON LA BIENVENIDA PLACE.

AS-BUILT INFORMATION

CONTRACTOR
WORK STAKED BY
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO.

BENCH MARKS

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ELEVATION = 5106.31

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

3/31/95

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

		DATE
DESIGNED BY	FT	1-95
DRAWN BY	LAH	1-95
CHECKED BY	DJG	1-95

26 - 4779.94 0999 7

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

INTEL SANITARY SEWER - WESTERN TRAIL (PHASE III)
OVERALL TRAFFIC CONTROL MAP, SIGN FACE DETAILS AND SEQUENCE OF CONSTRUCTION

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.G. Lindsley	5-12-95	WATER	Raymond Shaw	5/7/95
TRANSPORTATION	NM CHO	5-02-95	WASTE WATER	" "	"
HYDROLOGY	RBL	5-1-95			

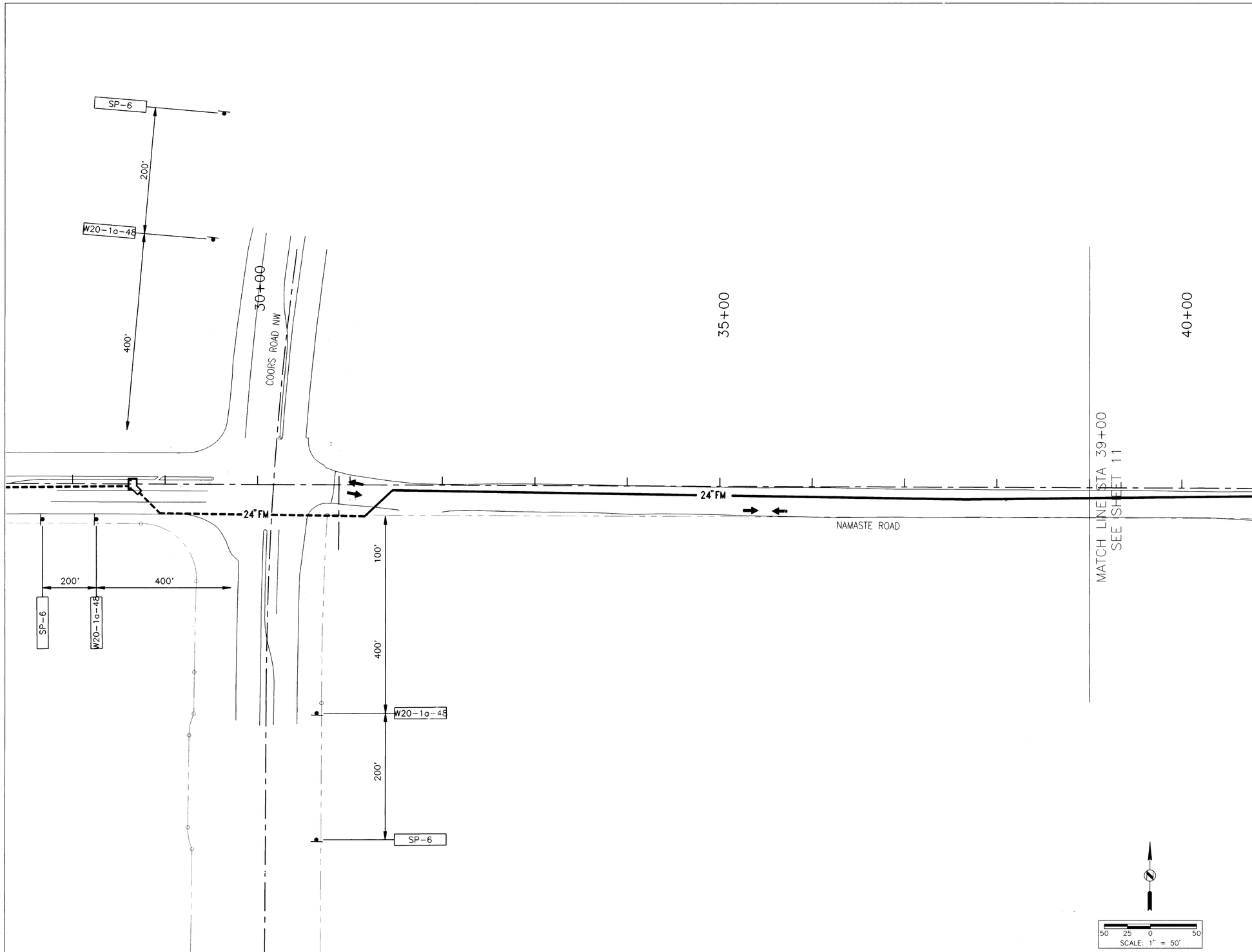
DRAWING NO.	MAP NO.	SHEET:
4779.94	F-11,12	9 OF 14

BHI JOB NO. 93252.21

FILENAME: 3WTSIGNS.DWG

2-14-95

SCANNED BY BY LASON



PHASE III NOTES

1. ACCESS SHALL BE MAINTAINED AT ALL TIMES TO THE RESIDENT ON NAMASTE ROAD AND THE RESIDENT ON BIENVENIDA PLACE.

26-4779.94 1097

LEGEND

- XXXX CONSTRUCTION SIGN
- ① BARREL (TYPE H)
- TT ② TYPE III BARRICADE (8 FT)
- ③ VERTICAL PANEL (BACK TO BACK)
- DIRECTION OF TRAFFIC
- ATTENUATORS (SAND BARRELS)
- CONCRETE WALL BARRIER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY	FT	DATE	1-95
DRAWN BY	LAH	DATE	1-95
CHECKED BY	DJG	DATE	1-95

AS-BUILT INFORMATION

CONTRACTOR WORK STAKED BY	
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

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ELEVATION = 5106.31	

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE

ENGINEER'S SEAL

Donald J. Gallegos 5/31/95

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

INTEL SANITARY SEWER – WESTERN TRAIL (PHASE III)
TRAFFIC CONTROL PLAN
PHASE I

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.J. Stokley	5.12.95	WATER	Roger L. Nace	5/9/95
TRANSPORTATION	WB. RHO	5-02-95	WASTE WATER	"	"
HYDROLOGY	RWC	5-1-95			

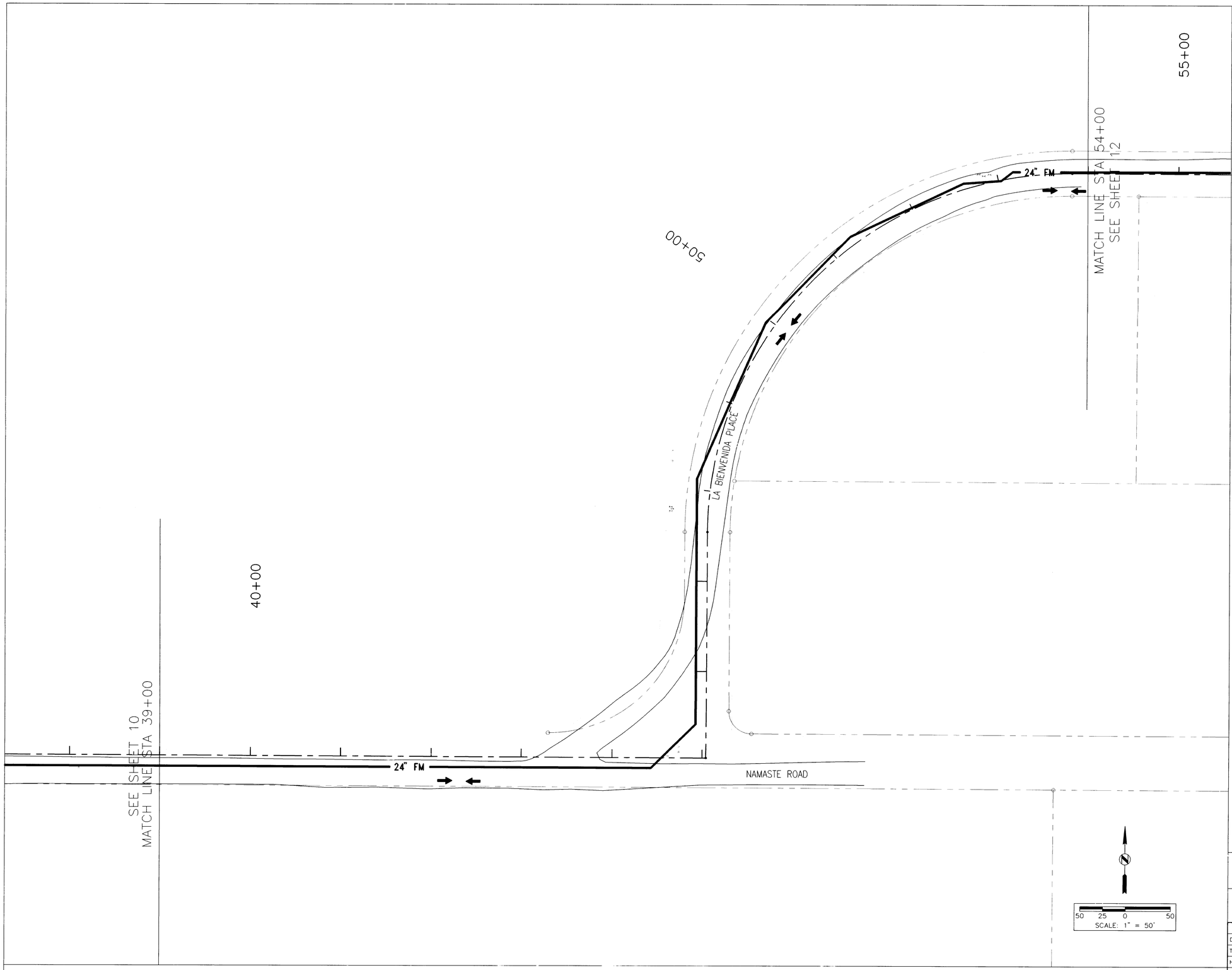
DRAWING NO.	MAP NO.	SHEET:
4779.94	F-11,12	10 OF 14

BHI JOB NO. 93252.21

FILENAME: 3WTTCP3A.DWG

1-18-95

SCANNED BY BY LASON



26-4779 94 1197

LEGEND

- XXXX CONSTRUCTION SIGN
- ① BARREL (TYPE H)
- ② TYPE III BARRICADE (8 FT)
- ③ VERTICAL PANEL (BACK TO BACK)
- DIRECTION OF TRAFFIC
- ATTENUATORS (SAND BARRELS)
- CONCRETE WALL BARRIER

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

BENCH MARKS

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ELEVATION = 5106.31

AS-BUILT INFORMATION

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

ENGINEER'S SEAL

3/31/95

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY FT DATE 1-95
DRAWN BY LAH DATE 1-95
CHECKED BY DJG DATE 1-95

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

INTEL SANITARY SEWER – WESTERN TRAIL (PHASE III)
TRAFFIC CONTROL PLAN
PHASE I

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.G. Bobby	5-12-95	WATER	Raymond Khan	5/9/95
TRANSPORTATION	N/A RHD	5-02-95	WASTE WATER	"	"
HYDROLOGY	Pam	5-1-95			

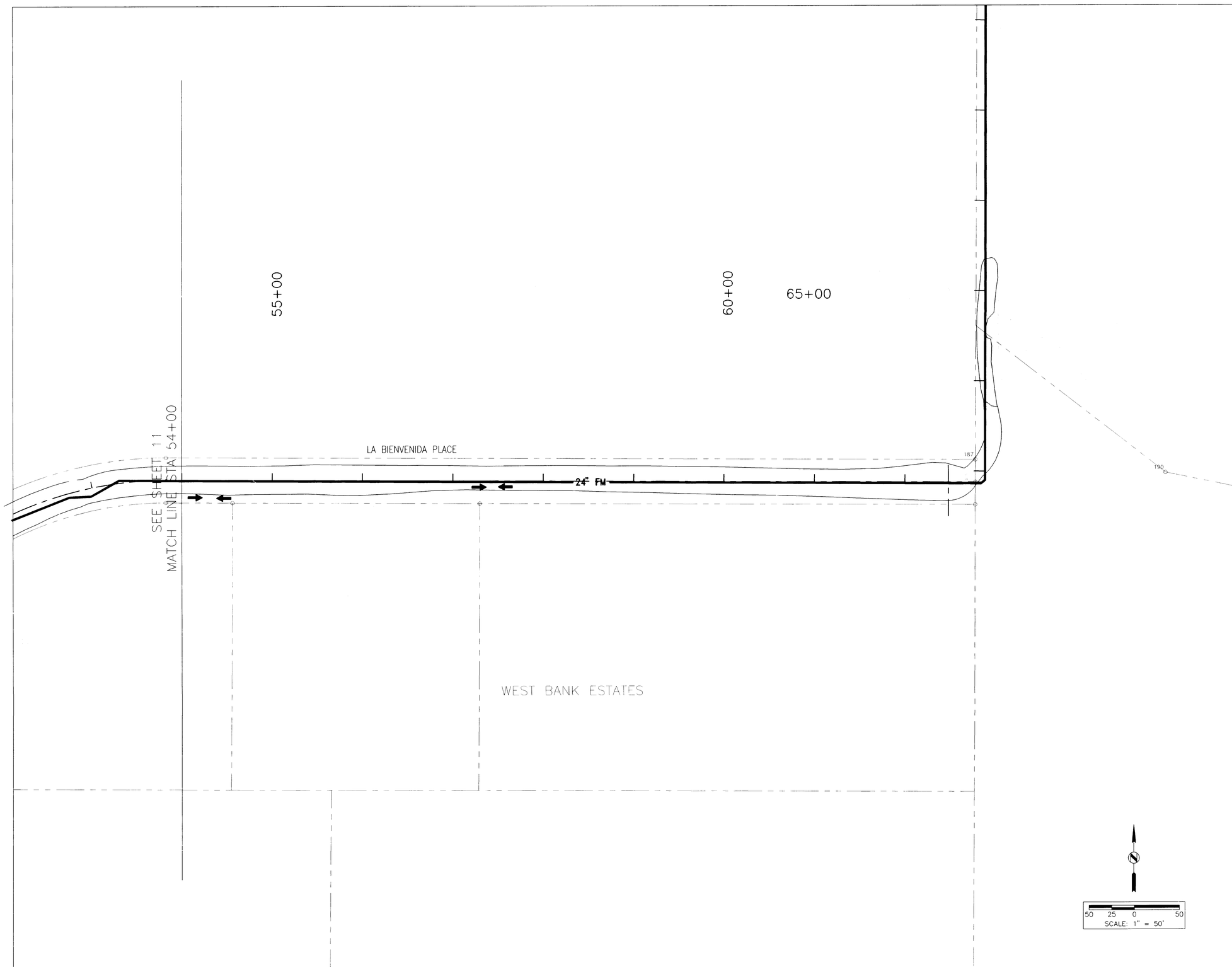
DRAWING NO.	MAP NO.	SHEET:
4779.94	F-11,12	11 OF 14

BHI JOB NO. 93252.21

FILENAME: 3WTTCP3B.DWG

1-18-95

SCANNED BY BY LASON



AS-BUILT INFORMATION	
CONTRACTOR WORK STAKED BY	
INSPECTOR'S ACCEPTANCE	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

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ELEVATION = 5106.31

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

3/31/95

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

		DATE
DESIGNED BY	FT	1-95
DRAWN BY	LAH	1-95
CHECKED BY	DJG	1-95

26-4779.94 12/29/97

LEGEND

- XXXX CONSTRUCTION SIGN
- ① BARREL (TYPE H)
- ② TYPE III BARRICADE (8 FT)
- ③ VERTICAL PANEL (BACK TO BACK)
- DIRECTION OF TRAFFIC
- ATTENUATORS (SAND BARRELS)
- CONCRETE WALL BARRIER

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

INTEL SANITARY SEWER – WESTERN TRAIL (PHASE III)
TRAFFIC CONTROL PLAN
PHASE II

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		5-12-95	WATER		5/9/95
TRANSPORTATION		5-02-95	WASTE WATER	"	"
HYDROLOGY		5-1-95			

DRAWING NO.	MAP NO.	SHEET:
4779.94	F-11,12	12 OF 14

BHI JOB NO. 93252.21

FILENAME: 3WTTCP3C.DWG

1-18-95

SCANNED BY LASON

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.

2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.

3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.

4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.

5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.

6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.

8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.

9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.

10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.

11. CONTRACTOR SHALL NOT BEGIN WORK BEFORE 8:30 A.M. OR END WORK AFTER 4:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELLED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

19. 24 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

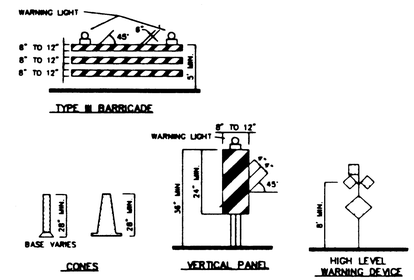
22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
    1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
    2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
    3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

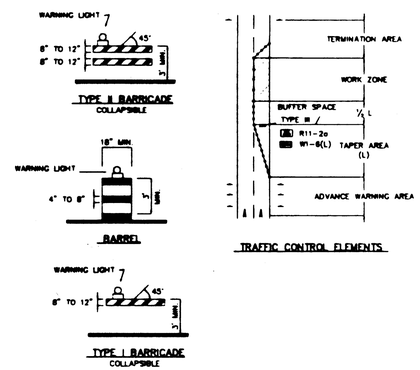
26. Advanced Warning Signs may be 36"x36" if Super Engineering grade retro-reflective sheeting is used.



LEGEND

- WORK AREA
- BARRICADE - TYPE I, TYPE II, OR BARREL
- BARRICADE - TYPE III
- x VERTICAL PANEL
- WARNING SIGN
- D DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
- FLAGMAN POSITION
- S SPACING BETWEEN BARRICADES- A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
- L TAPER LENGTH - SEE CHART BELOW

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.



TAPER REQUIREMENTS

SPEED LIMIT (MPH)	TAPER LENGTH (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING FOR ADVANCE WARNING SIGN SERIES

SPEED MILES PER HOUR	MINIMUM DISTANCE IN FEET BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

TAPER CRITERIA

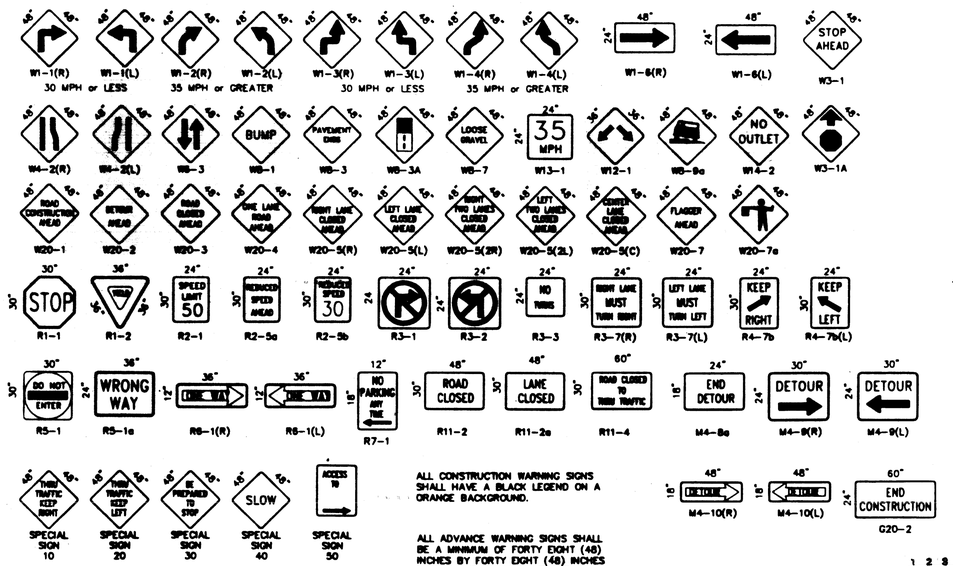
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/3 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT	
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR GREATER	$L = W \times S$

L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

SIGN FACE DETAILS



ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF FORTY EIGHT (48) INCHES BY FORTY EIGHT (48) INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26-4779.94 1397

AS BUILT INFORMATION — CONTRACTOR / WORK STAKED BY / INSPECTOR'S FIELD NOTES / ACCEPTANCE 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 RICARDO ROYBAL P.E. DATE AUG. 1992
DRAWN BY CADD.- A.F.V. DATE AUG. 1992
CHECKED BY DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

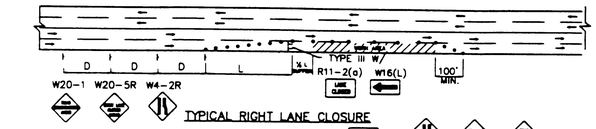
TITLE: SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		5-12-95	WATER		5/12/95
TRANSPORTATION	W.A. BHD	5-02-95	WASTE WATER	"	"
HYDROLOGY	RAH	5-1-95			

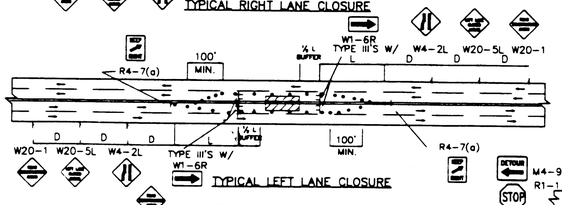
PROJECT NO. 4779.94 | MAP NO. | SHEET 13 OF 14

08-11-92
CTCSTDV.DWG (1=1)

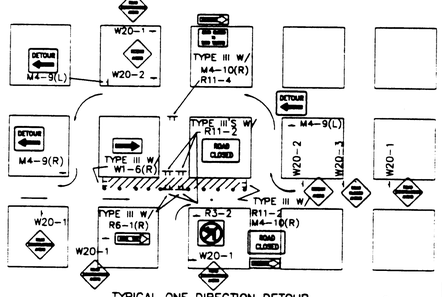
SCANNED BY BY LASON



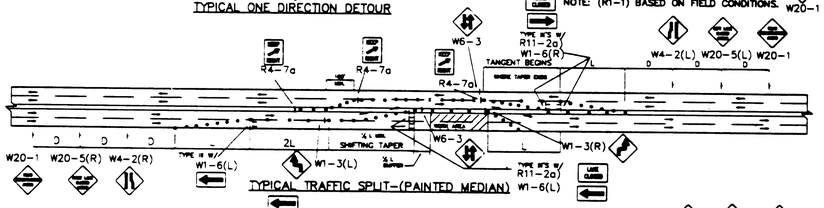
TYPICAL RIGHT LANE CLOSURE



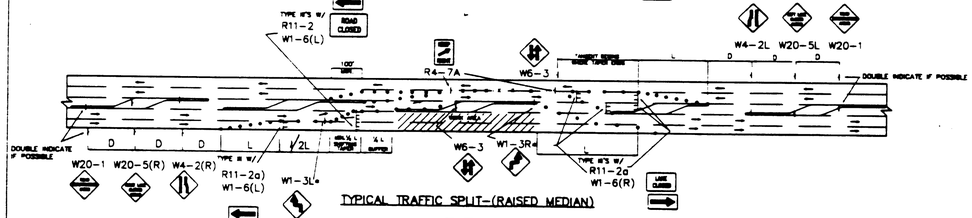
TYPICAL LEFT LANE CLOSURE



TYPICAL ONE DIRECTION DETOUR



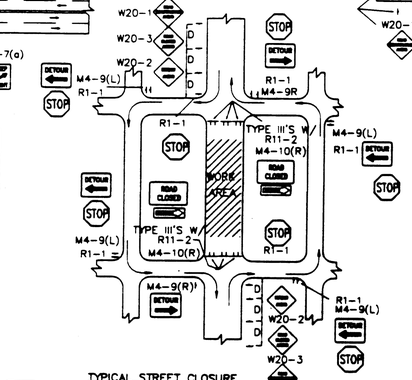
TYPICAL TRAFFIC SPLIT-(PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT-(RAISED MEDIAN)

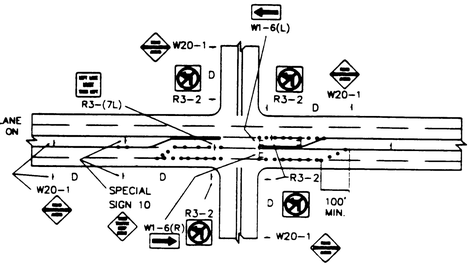
TRAFFIC SPLIT NOTES:

1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
2. ½ L IS MINIMUM DISTANCE FOR SHIFTING TAPERS.
3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
4. MEDIAN REMOVAL SHALL BE REQUIRED IF ½ L OR REVERSE CURVE IS NOT SUFFICIENT. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
5. REDUCED SPEED MAY BE CONSIDERED.
6. USE 1-3 FOR 30 MPH OR LESS, W1-4 FOR SPEED 35 MPH OR GREATER.



TYPICAL STREET CLOSURE

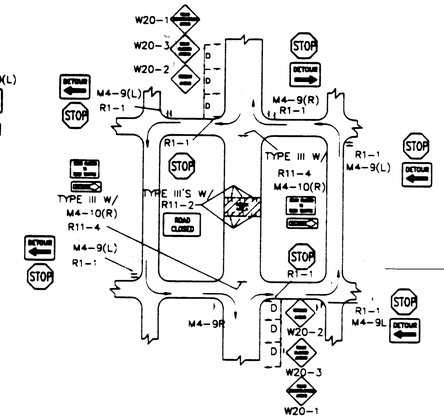
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



NOTE:
MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.

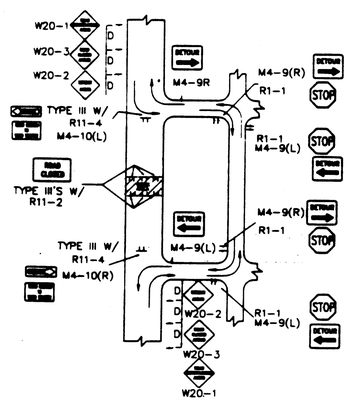
TYPICAL LANE CLOSURE AT INTERSECTION

NOTE: DEPENDING ON WORK ZONE LOCATION



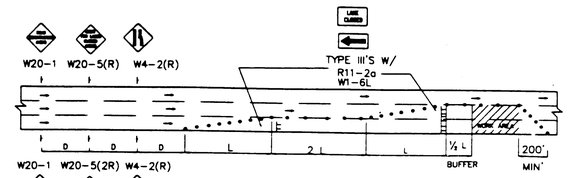
TYPICAL MID-BLOCK CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

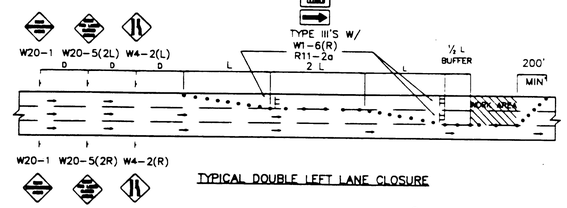


TYPICAL STREET CLOSURE

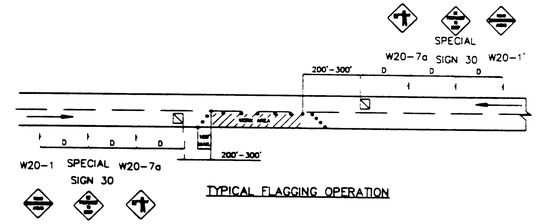
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



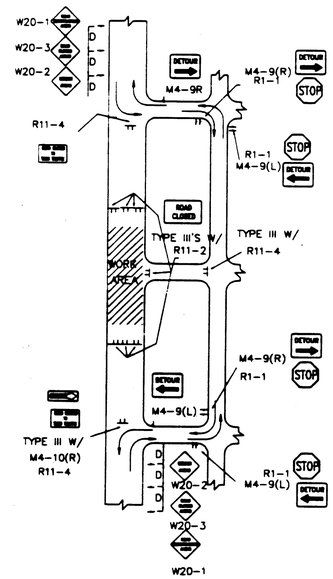
TYPICAL DOUBLE RIGHT LANE CLOSURE



TYPICAL DOUBLE LEFT LANE CLOSURE

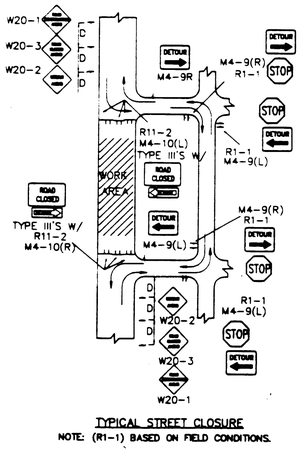


TYPICAL FLAGGING OPERATION



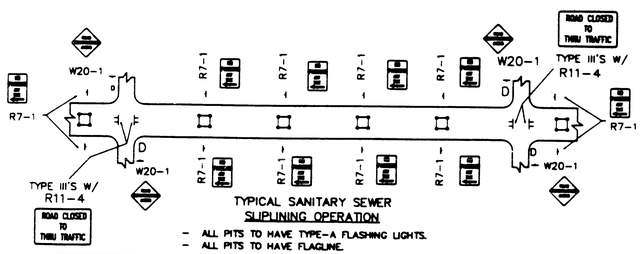
TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.



TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.



TYPICAL SANITARY SEWER SLIPLINING OPERATION

- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS.
- ALL PITS TO HAVE FLAGLINE.

01-13-12
CLS3TOZ.DWG

AS BUILT INFORMATION
CONTRACTOR — DATE
STAKED BY — DATE
STAKE CHECK BY — DATE
WORK STAKED BY — DATE
WORK CHECKED 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

STANDARD NOTES FOR ALBUQUERQUE, NEW MEXICO
RICHARDO ROYBAL

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN
DESIGNED BY RICARDO ROYBAL, P.E. DATE NOV. 1991
DRAWN BY C.A.D.D./W.L.B./A.F.V. DATE NOV. 1991
CHECKED BY DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		5-13-95	WATER		5/15/95
TRANSPORTATION			WASTE WATER		
HYDROLOGY		5-1-95			

1 2 3 4 5 6 7 8 9 10 11 12 13 14
26-4779.94 1 4 7 9

PROJECT NO. 4779.94

MAP NO.

SHEET 14 OF 14

SCANNED BY
BY LASON