GENERAL NOTES

1. ALL WORK DETAILED ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT "CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", 1986 INCLUDING UPDATE NO. 4 AND ADDITIONS IN THE SUPPLEMENTAL SPECIFICATIONS IN THE CONTRACT DOCUMENTS.

2. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

3. ALL EXISTING UTILITIES SHOWN HERE WERE OBTAINED AS ACCURATELY AS POSSIBLE FROM RECORD DRAWINGS AND SPOT EXCAVATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT, MAINTAIN IN SERVICE, AND VERIFY EXACT LOCATIONS OF ALL AFFECTED UTILITIES DURING CONSTRUCTION OF THIS PROJECT.

4. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES WHEN WORKING NEAR THEIR SYSTEMS. TWO DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE-CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.

5. THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE CONSTRUCTION LIMITS AND/OR RIGHTS-OF-WAY TO PRESERVE EXISTING VEGETATION AND PRIVATE PROPERTY. OVERNIGHT PARKING OF CONTRACTOR'S EQUIPMENT SHALL NOT OBSTRUCT ACCESS ROADS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL PROVIDE ACCESS TO ADJACENT PROPERTY AT ALL TIMES.

6. 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 PROJECT MANAGER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.

7. CONTRACTOR IS RESPONSIBLE FOR SUPPORTING ANY EXISTING UTILITIES EXPOSED DURING REQUIRED EXCAVATIONS.

8. 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 THE ENGINEER. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION 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.

9. REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK SHALL BE TO THE NEAREST JOINT OR SAW CUT.

10. WHEN MATCHING NEW PAVING TO EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVING ON A RIGHT ANGLE OR AS DIRECTED BY THE PROJECT MANAGER TO REMOVE ANY BROKEN, RAVELED, OR CRACKED PAVING. THE COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

11. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED IN KIND BY CONTRACTOR. REPLACEMENT SHALL BE OF THE SAME QUALITY MATERIAL AND IN THE SAME LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.

12. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT, WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR OR HIS SUBCONTRACTORS, SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

13. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.

14. ACCESS TO LOCAL BUSINESS AND RESIDENCES SHALL BE KEPT OPEN AT ALL TIMES. TEMPORARY ACCESS CLOSURES, IF REQUIRED, SHALL BE SCHEDULED AT LEAST TWENTY-FOUR (24) HOURS IN ADVANCE WITH PROPERTY OWNER AND APPROVED BY THE PROJECT MANAGER.

15. TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.

16. WATER SHUT-OFF PLANS ARE FOR CITY USE ONLY. CONTRACTOR IS REQUIRED TO NOTIFY WATER SYSTEMS THREE (3) WORKING DAYS PRIOR TO ANY REQUIRED OPERATIONS (857-8200). WATER DISTRIBUTION SYSTEM SHUT-OFFS AND TURN-ONS SHALL BE AS PER SECTION 18.3 OF THE GENERAL CONDITIONS.

17. REMOVALS SHALL BE DISPOSED OF OFF-SITE AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

18. THE CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIAL IN AN ENVIRONMENTALLY ACCEPTABLE MANNER AT A LOCATION ACCEPTABLE TO THE PROJECT MANAGER. THERE WILL BE NO DIRECT COMPENSATION FOR THIS WORK.

19. CONTRACTOR SHALL PROVIDE A TEMPORARY STORM DRAINAGE SYSTEM (SUBJECT TO APPROVAL BY THE CITY HYDROLOGY DIVISION AND THE CITY CONSTRUCTION PROJECT MANAGER) FOR ALL WORK ON THIS PROJECT. THE TEMPORARY SYSTEM SHALL BE CAPABLE OF SAFELY CONVEYING EXISTING RUNOFF ACROSS THE PROJECT AND DISCHARGING INTO THE EXISTING DRAINAGE SYSTEM.

20. THE AIR POLLUTION CONTROL REGULATIONS OF THE ALBUQUERQUE - BERNALILLO COUNTY AIR CONTROL BOARD, LIMIT EMISSION OF PARTICULATE MATTER AND THE USE OF CUT BACK ASPHALT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FULLY INFORMED OF THESE RESTRICTIONS PRIOR TO SUBMITTAL OF BIDS TO AVOID CONFLICT WITH THE REGULATIONS.

AMOLE DEL NORTE
STORM DIVERSION FACILITIES
TIERRA BAYITA DRAINAGE FACILITIES

FOR

CITY OF ALBUQUERQUE - PUBLIC WORKS DEPARTMENT

PHASE IIIB

CITY OF ALBUQUERQUE, NEW MEXICO

OCTOBER 1993

INDEX TO DRAWINGS

NO.	DESCRIPTION
1	TITLE SHEET
2	SHEET LAYOUT & LEGEND
3	BRIDGE BLVD./UNSER BLVD. STA. 110+04.07 TO 110+75 STORM DRAIN
4	UNSER BLVD. STA. 110+75 TO 123+10 STORM DRAIN
5	UNSER BLVD. STA. 123+10 TO 135+00 STORM DRAIN
6	UNSER BLVD. STA. 135+00 TO 142+57 STORM DRAIN
7	42" STORM DRAIN STA. 10+00 TO 12+31
8	MISCELLANEOUS PROFILES - UNSER BLVD.
9	MISCELLANEOUS STORM DRAIN DETAILS
10	POND STRUCTURAL DETAILS
11	JUNCTION BOX DETAILS
12	WATER SHUT OFF PLANS
13-15	TRAFFIC CONTROL PLANS
16-19	CHANNEL & SD IMPROVEMENTS-STA. 9+00 TO 41+06

GENERAL NOTES

21. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO LANDSCAPING AND IRRIGATION SYSTEMS WITHIN WORK AREA NOT COVERED IN THE PLANS.

22. ALL FLOWS INCLUDE A 10% SEDIMENT BULKING FACTOR.

23. ALL STORM DRAIN PIPE SHALL BE REINFORCED CONCRETE PIPE UNLESS OTHERWISE NOTED.

24. AN AT&T REPRESENTATIVE MUST BE PRESENT WHENEVER AN AT&T CABLE IS EXPOSED. THE AT&T FIBER OPTIC CABLE MUST BE COVERED AT NIGHT TO A MIN. OF 2' OR AT&T SHALL BE CONTACTED TO PROVIDE A GUARD.

25. CONTRACTOR MUST SUBMIT A CONSTRUCTION SIGNING AND BARRICADING PLAN TO THE CITY OF ALBUQUERQUE, CONSTRUCTION COORDINATOR, AND RECEIVE A BARRICADING PERMIT 2 WORKING DAYS PRIOR TO BARRICADING OR CLOSING A CITY STREET. ALL CONSTRUCTION SIGNING AND BARRICADING SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

RECORD DRAWINGS

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT AS-CONSTRUCTED CONDITIONS IN ACCORDANCE WITH INFORMATION FURNISHED BY THE CONTRACTOR (MCC, INC.) AND THE CITY OF ALBUQUERQUE, WHICH PERFORMED ON-SITE INSPECTION DURING CONSTRUCTION AND CONSTRUCTION SURVEYS.

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
DATE 9-27-94

APPROVED FOR CONSTRUCTION
(ADDITIONAL SHEETS 16-19)
11/4/94

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 4076. 9 10 94

REV	SHEETS		CITY ENGR	DATE	USER DEPT.	DATE	USER DEPT.	DATE
1	4,9,16,17&18	Billy Goodaby		3-30-94		3-30-94		

APPROVAL OF REVISIONS

MARK S. HOLSTAD NEW MEXICO No. 7288 REGISTERED PROFESSIONAL ENGINEER
10-28-93

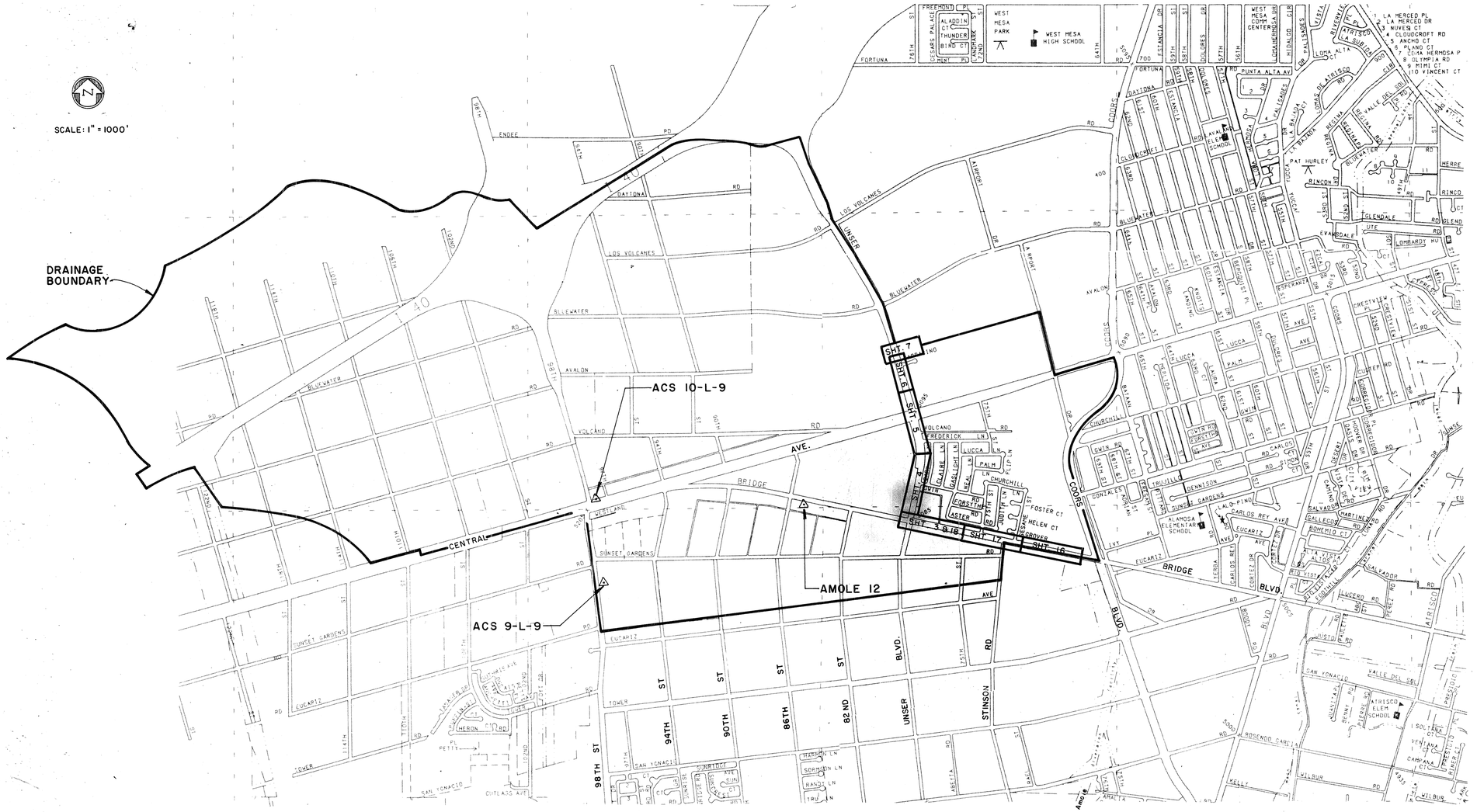
Greiner, Inc.
5971 JEFFERSON BLVD. NE
SUITE 101
ALBUQUERQUE, NM 87109
(505) 345-3999

APPROVED FOR CONSTRUCTION
11/2/93

DRAWING NO.
CITY PROJECT # 4076.91

SHEET 1 OF 19

DTTL01.DWG



PROJECT LEGEND

DESCRIPTION	EXISTING	NEW
RIGHT-OF-WAY LINE		
CONTOUR	5090	
SPOT ELEVATION	X89.5	
CONTROL POINT	◇	
GUARD RAIL		
BUILDING		
SIGN	•S	
POWER POLE		
LIGHT POLE		
TRAFFIC LIGHT	TL	
FIRE HYDRANT		
TELEPHONE RISER		
FENCE		
WALL	—W—W—	
WATER METER		
WATER VALVE		
SANITARY MANHOLE		
STORM DRAIN MANHOLE		
TELEPHONE MANHOLE		
SANITARY SEWER LINE	—SAS—	
WATER LINE	—W—	
STORM DRAIN LINE	—SD—	SD
GAS LINE	—G—	
CABLE TV LINE	—CATV—	
OVERHEAD ELECTRIC LINE	—OHE—	
UNDERGROUND TELEPHONE	—UGT—	
CONCRETE CHANNEL		
CONCRETE BOX CULVERT		

PROJECT BENCH MARKS

ACS 10-L-9 — ALUMINUM CAP SET IN CONCRETE CURB ON THE NORTHEASTERLY TURN ISLAND IN THE INTERSECTION OF 98th STREET AND CENTRAL AVENUE.

N = 1,482,085.203 E = 352,792.376

ELEV = 5204.425

ACS 9-L-9 — ALUMINUM CAP SET IN 3" PIPE APPROXIMATELY 30' EAST OF THE EDGE OF PAVEMENT ON 98th STREET AND APPROXIMATELY 1/4 MILE SOUTH OF CENTRAL AVENUE.

N = 1,480,156.190 E = 353,052.987

ELEV = HORIZONTAL CONTROL ONLY

TBM-AMOLE 12 — BRASS CAP SET ALONG THE SOUTH SIDE OF BRIDGE BLVD. RIGHT-OF-WAY APPROXIMATELY 255' EAST OF 86th STREET AND APPROXIMATELY 35' SOUTH OF CENTER OF DIRT ROAD.

N = 1,482,132.666 E = 356,719.146

ELEV = 5111.080

RECORD DRAWINGS 11/07/94

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT AS-CONSTRUCTED CONDITIONS IN ACCORDANCE WITH INFORMATION FURNISHED BY THE CONTRACTOR (MCC, INC.) AND THE CITY OF ALBUQUERQUE, WHICH PERFORMED ON-SITE INSPECTION DURING CONSTRUCTION AND CONSTRUCTION SURVEYS.

AS BUILT INFORMATION
CONTRACTOR MCC, INC. UNIT 1994
STAKED BY COA DATE 7/94
INSPECTORS
AS-CHANGE BY COA DATE 7/94
FIELD VERIFICATION BY COA DATE 7/94
DRAWING CORRECTED BY GREINER DATE 7/94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
ACS 10-L-9 ALUMINUM CAP SET IN CONCRETE CURB ON THE NORTHEASTERLY TURN ISLAND IN THE INTERSECTION OF 98th STREET AND CENTRAL AVENUE.
N = 1,482,085.203 E = 352,792.376
ELEV = 5204.425

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
MARK S. HOLSTAD NEW MEXICO No. 7288 REGISTERED PROFESSIONAL ENGINEER

NO.	BY	DATE	REMARKS
			REVISIONS
	SKJ	12-91	DESIGN
	JAK	12-91	DESIGNED BY
	MSH	3-92	DRAWN BY
			CHECKED BY

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

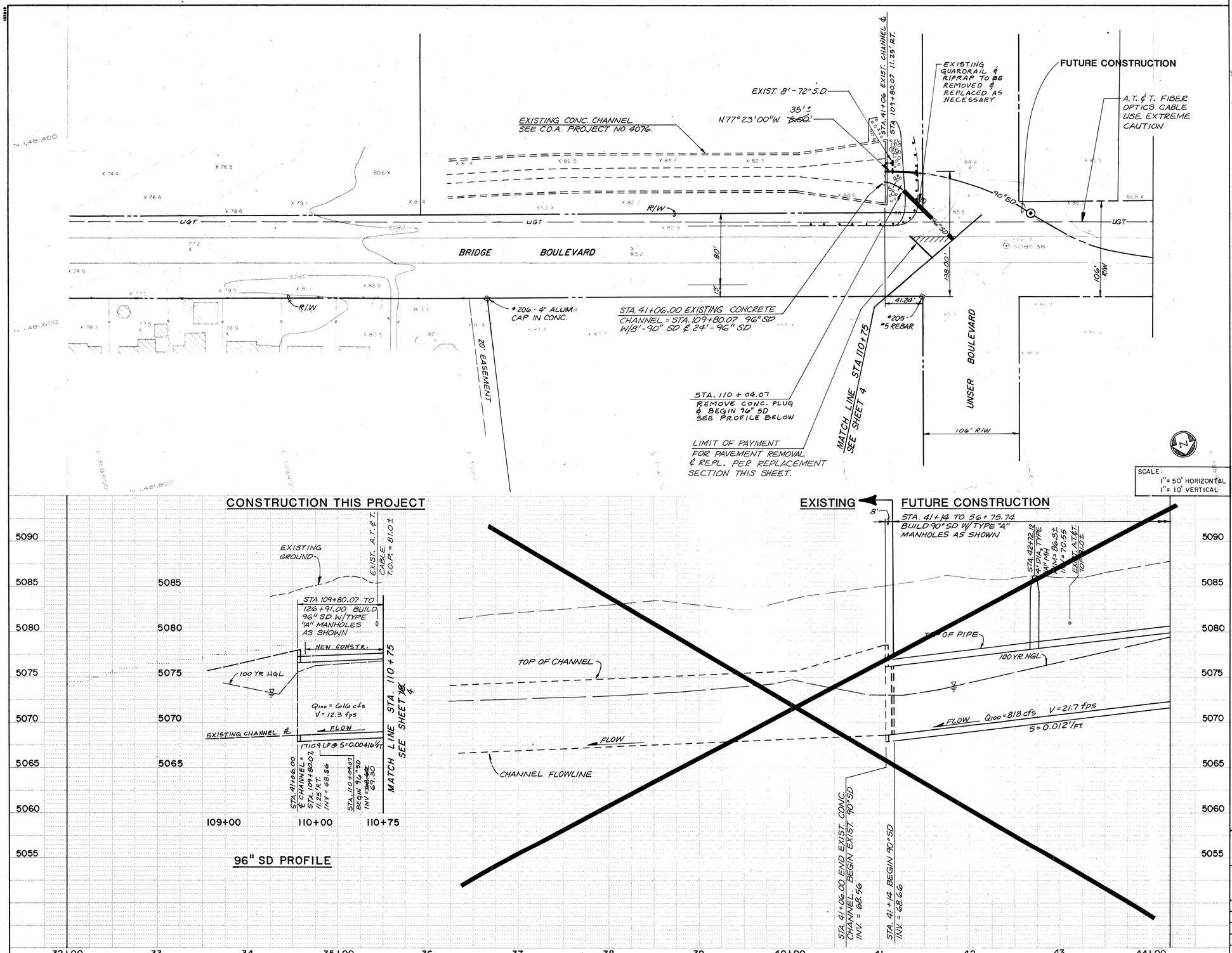
TITLE: AMOLE DEL NORTE STORM DIVERSION FACILITIES - PHASE IIIB
TIERRA BAYITA DRAINAGE FACILITIES

SHEET LAYOUT & LEGEND

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC. CHAIRMAN	B.A. Goodwin	11-05-93	WATER	William Baleh	10-29-93
TRANSPORTATION	K. Dowd	11-04-93	WASTE WATER	William Baleh	10-29-93
HYDROLOGY	R.D. Wing	11-1-93			

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
E6 4076.91 02 94

DRAWING NO. 4076.91 MAP NO. SHEET 2 OF 19



RECORD DRAWINGS 4/14/94

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT AS-CONSTRUCTED CONDITIONS IN ACCORDANCE WITH INFORMATION FURNISHED BY THE CONTRACTOR (MCC, INC.) AND THE CITY OF ALBUQUERQUE, WHICH PERFORMED ON-SITE INSPECTION DURING CONSTRUCTION AND CONSTRUCTION SURVEYS.

AS BUILT INFORMATION

CONTRACTOR MCC, INC.

WORK STARTED BY	COA	DATE 1994
WORK COMPLETED BY		
ACCEPTANCE BY	COA	DATE 7/94
FIELD VERIFICATION BY	COA	DATE 7/94
DRAWINGS CORRECTED BY	GREINER	DATE 7/94

MICRO-FILM INFORMATION

NO.	DATE
RECORDED BY	

BENCH MARKS

ACS 10-1-9 ALUMINUM CAP SET IN CONCRETE CURB ON THE NORTHEASTERLY TURN ISLAND IN THE INTERSECTION OF 98th STREET AND CENTRAL AVENUE.
N = 1,482,088.203 E = 352,792.376
ELEV = 5204.425

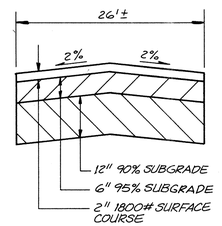
SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1880	GREINER	6-7/94
1883	GREINER	7&9/90
1886	GREINER	12/90
1893	GREINER	12/90
1893	GREINER	1/91
1910	GREINER	9-10/91

ENGINEER'S SEAL

MARK S. HOLSTAD NEW MEXICO No. 7288 REGISTERED PROFESSIONAL ENGINEER



BRIDGE BOULEVARD REPLACEMENT SECTION
NTS

NO.	DATE	REVISIONS	DESIGNED BY	DRAWN BY	CHECKED BY
		REMARKS	DATE	DATE	DATE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 4076.91 03 94

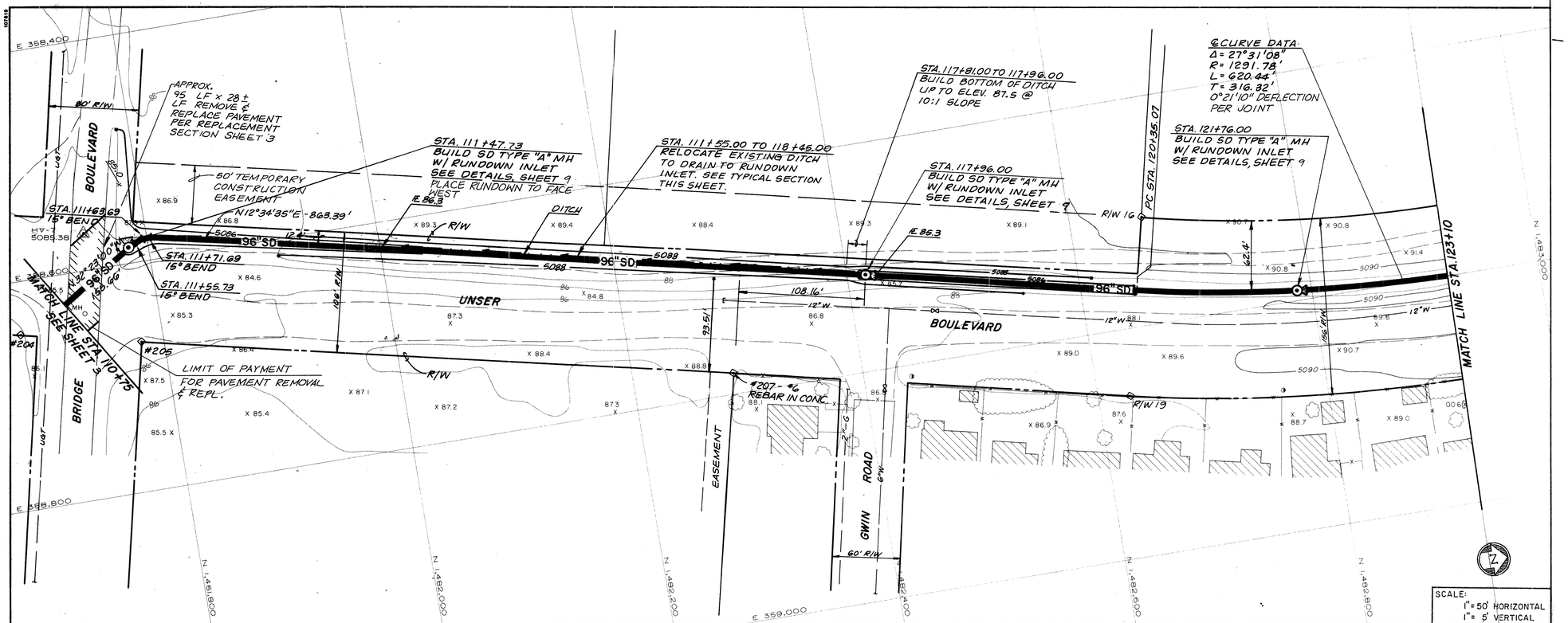
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: AMOLE DEL NORTE STORM DIVERSION FACILITIES - PHASE IIIB
TIERRA BAYITA DRAINAGE FACILITIES

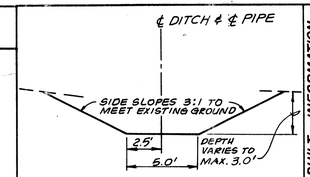
BRIDGE BOULEVARD/UNSER BOULEVARD STA 110+04.07 TO STA 110+75 STORM DRAIN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	D.J. Goodwin	11-08-93	Water	William Walsh	10-29-93
Trans. Dev.	[signature]	11-01-93	Wastewater	William Walsh	10-29-93
Hydrology	[signature]	11-1-93			

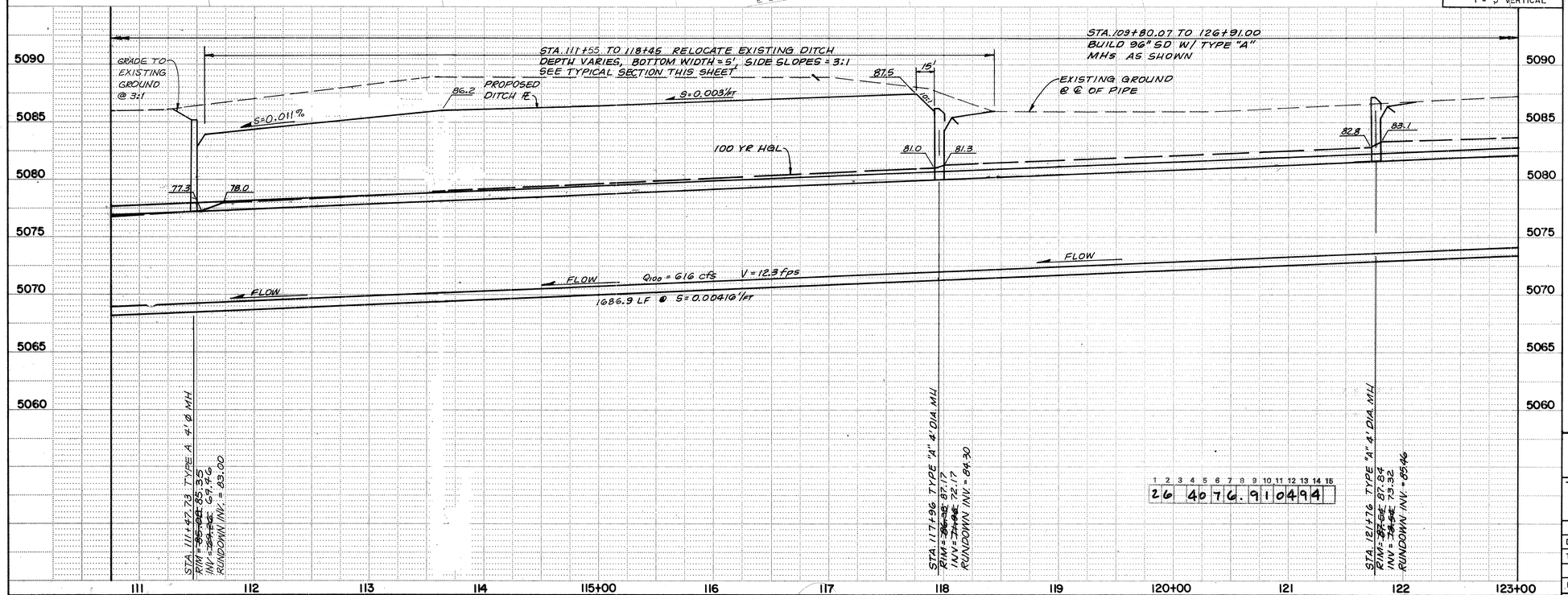
DRAWING NO. 4076.91 | MAP NO. L-10 | SHEET 3 OF 19



SCALE:
1" = 50' HORIZONTAL
1" = 5' VERTICAL



DITCH AT STA. 113+62 TO 120+35
TYPICAL SECTION
SCALE: 1" = 5'



AS BUILT INFORMATION
CONTRACTOR MCC, INC.
WORK STARTED BY C.O.A. DATE 1994
WORK ACCEPTANCE BY C.O.A. DATE 7/94
FIELD VERIFICATION BY C.O.A. DATE 7/94
DRAWINGS CORRECTED BY GREINER DATE 7/94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS 10-L-9 ALUMINUM CAP SET IN CONCRETE CURB ON THE NORTHEASTERLY TURN ISLAND IN THE INTERSECTION OF 98th STREET AND CENTRAL AVENUE.
N = 1,482,085.203 E = 352,792.376
ELEV = 5204.425

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1880	GREINER	6/7/90
1883	GREINER	7/30/90
1896	GREINER	12/90
1893	GREINER	1/91
1910	GREINER	9/1091

ENGINEER'S SEAL
MARK S. HOLSTAD NEW MEXICO No. 7288 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	GREI.
1	1-94	MOVE INLET/REVISE DITCH	

DESIGN DATE 10-90
DESIGNED BY SKT
DRAWN BY AH DATE 10-90
CHECKED BY LST DATE 8-91

RECORD DRAWINGS 11/8 1/9/1/94

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT AS-CONSTRUCTED CONDITIONS IN ACCORDANCE WITH INFORMATION FURNISHED BY THE CONTRACTOR (MCC, INC.) AND THE CITY OF ALBUQUERQUE, WHICH PERFORMED ON-SITE INSPECTION DURING CONSTRUCTION AND CONSTRUCTION SURVEYS.

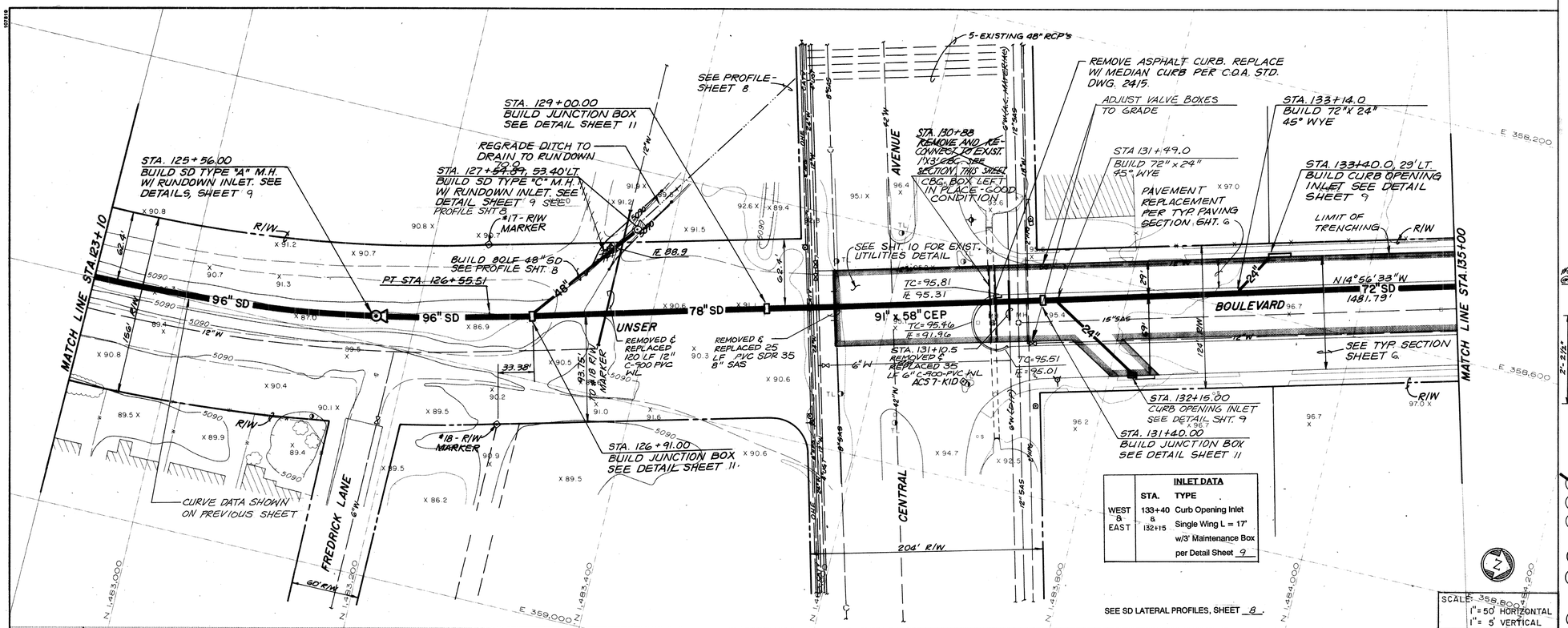
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

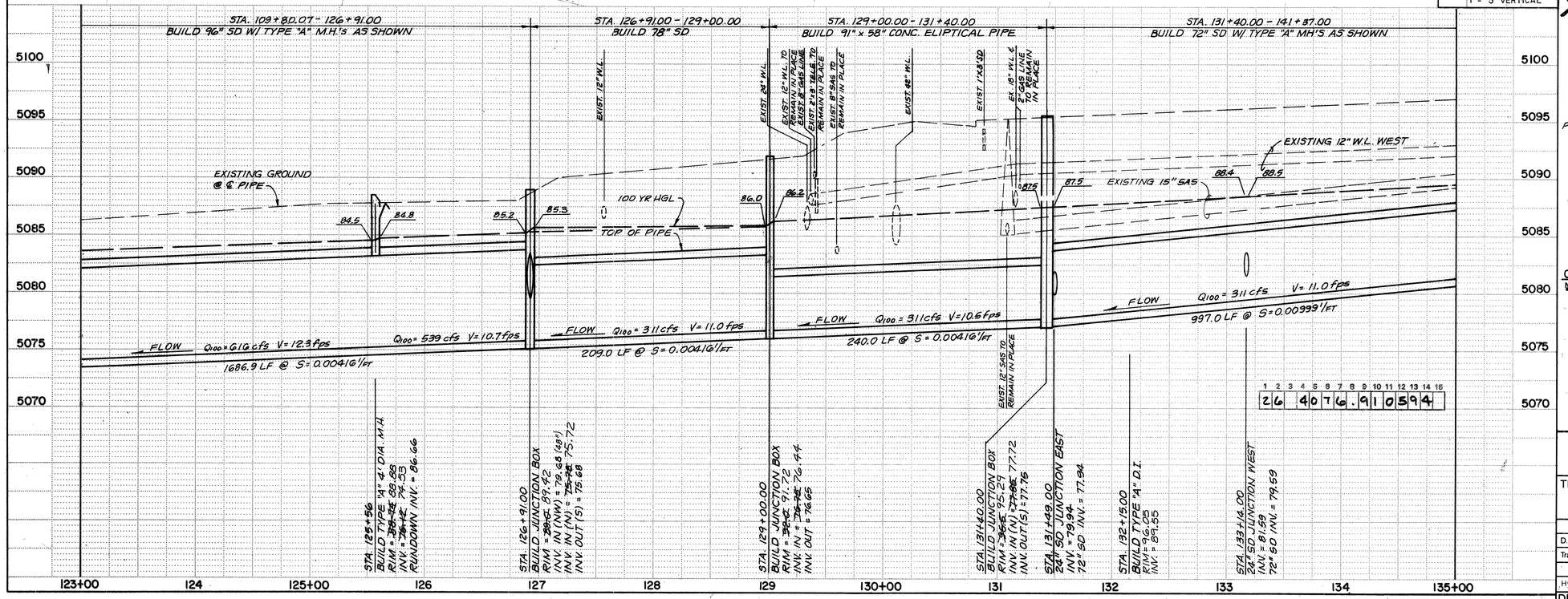
TITLE: AMOLE DEL NORTE STORM DIVERSION FACILITIES - PHASE IIIB
TIERRA BAYITA DRAINAGE FACILITIES
UNSER BOULEVARD - STA. 110+75 TO STA. 123+10
STORM DRAIN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	B.G. Goldsby	11-08-93	Water	William Baker	10-29-93
Trans. Dev.	R. Venk	11-09-93	Wastewater	William Baker	10-29-93
Hydrology	J.D. Mier	11-1-93			

DRAWING NO. 4076.91
MAP NO. K, L-10
SHEET 4 OF 19

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
2 6 4 0 7 6 . 9 1 0 4 9 4

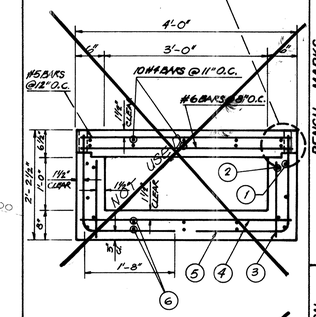




NOTES

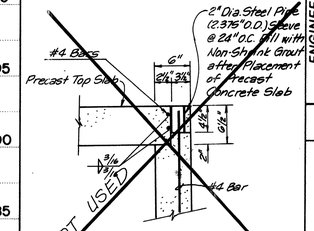
1. ELIPTICAL PIPE JOINTS SHALL BE TONGUE AND GROOVE AND WILL REQUIRE A MASTIC SEALANT INSIDE AND A CONCRETE DIAPER OUTSIDE. THIS WORK WILL BE INCIDENTAL TO THE COST OF THE PIPE.
2. SEE WATER SHEET OFF PLAN ON SHEET 12 FOR WATERLINE CLOSURES IN CENTRAL. (42", 24" & 12" LINES)

SEE JOINT / SLEEVE DETAIL THIS SHEET



~~1 - #4 BARS @ 6" O.C.~~
~~2 #4 BARS @ 12" O.C.~~
~~3 #4 BARS @ 12" O.C.~~
~~4 #5 BARS @ 8" O.C.~~
~~5 #4 BARS @ 8" O.C. EXTEND 3" INTO PIPE SLEEVE EVERY 3RD. BAR. EXTEND BARS TO TOP REBAR MAT IN TOP SLAB IN MONOLITHIC CATCH BASIN SECTION.~~
~~6 18 #4 BARS @ 11" O.C.~~
NOT USED

STA 130+88
1'X3' CBC
NTS



CONCRETE BOX - JOINT & SLEEVE DETAIL
DWG.

RECORD DRAWINGS
9/12/94

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT AS-CONSTRUCTED CONDITIONS IN ACCORDANCE WITH INFORMATION FURNISHED BY THE CONTRACTOR (MCC, INC.) AND THE CITY OF ALBUQUERQUE, WHICH PERFORMED ON-SITE INSPECTION DURING CONSTRUCTION AND CONSTRUCTION SURVEYS.

AS BUILT INFORMATION
CONTRACTOR MCC, INC.
WORK STAKED BY COA DATE 1994
SURVEYED BY COA DATE 7/94
ACCEPTANCE BY COA DATE
FIELD VERIFICATION BY COA DATE 7/94
DRAWINGS CORRECTED BY GREINER DATE 7/94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS 10-L-9 ALUMINUM CAP SET IN CONCRETE CURB ON THE NORTHEASTERLY TURN ISLAND IN THE INTERSECTION OF 98th STREET AND CENTRAL AVENUE.
N = 1,482,085.203 E = 352,792.376
ELEV = 5204.425

SURVEY INFORMATION
FIELD NOTES BY GREINER DATE 6-7/90

NO.	BY	DATE
1880	GREINER	6-7/90
1883	GREINER	7&9/90
1886	GREINER	12/90
1893	GREINER	12/90
1893	GREINER	1/91
1910	GREINER	9-10/91

ENGINEER'S SEAL
MARK S. HOLSTAD NEW MEXICO No. 7288 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		DESIGN	
		DESIGNED BY SKJ / MSH	DATE 10-90
		DRAWN BY PRM	DATE 10-90
		CHECKED BY LST	DATE 8-91

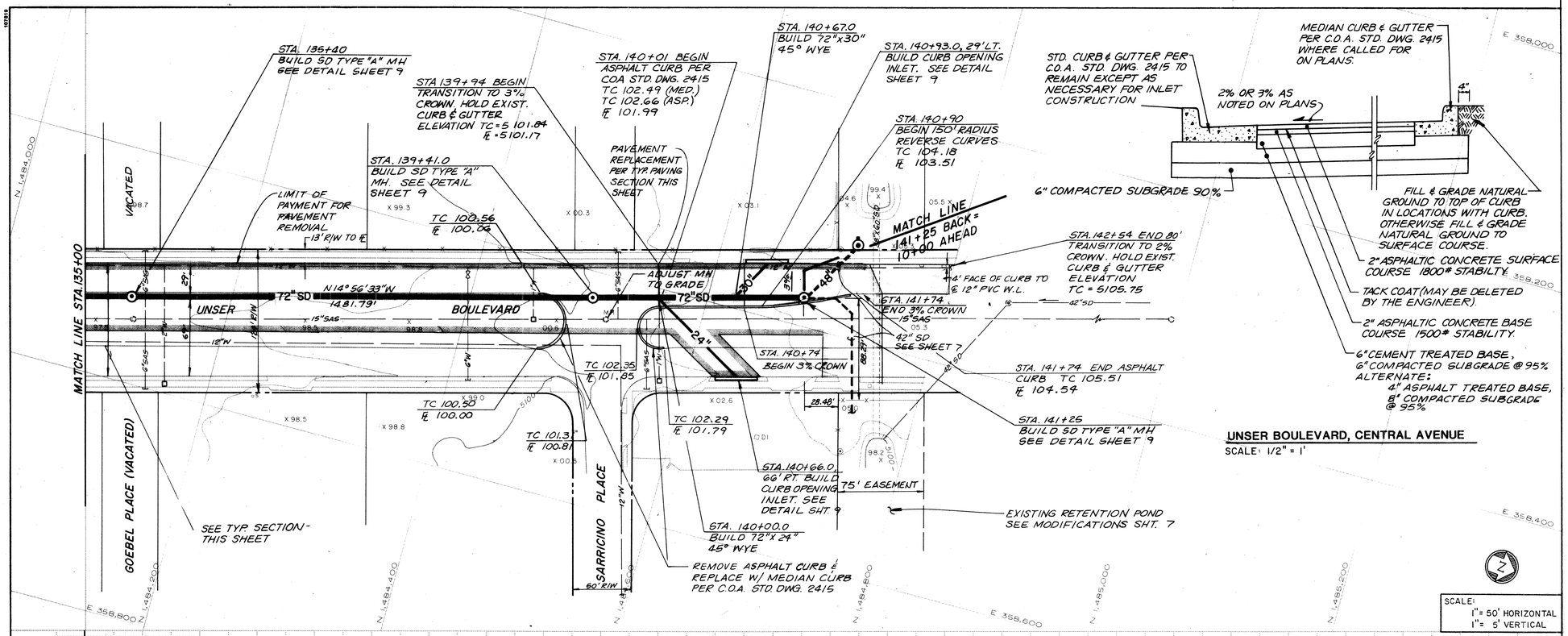
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: AMOLE DEL NORTE STORM DIVERSION FACILITIES - PHASE IIIB
TIERRA BAYITA DRAINAGE FACILITIES
UNSER BOULEVARD - STA. 123+10 TO STA. 135+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.	B.G. Goldberg	11-08-93	Water	William Baker	10-29-93
	R. Dent	11-04-93	Wastewater	William Baker	10-29-93
Hydrology	P.O. Mier	11-1-93			

DRAWING NO. 4076.91 | MAP NO. K-10 | SHEET 5 OF 19

26 40 76.91 05 94
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

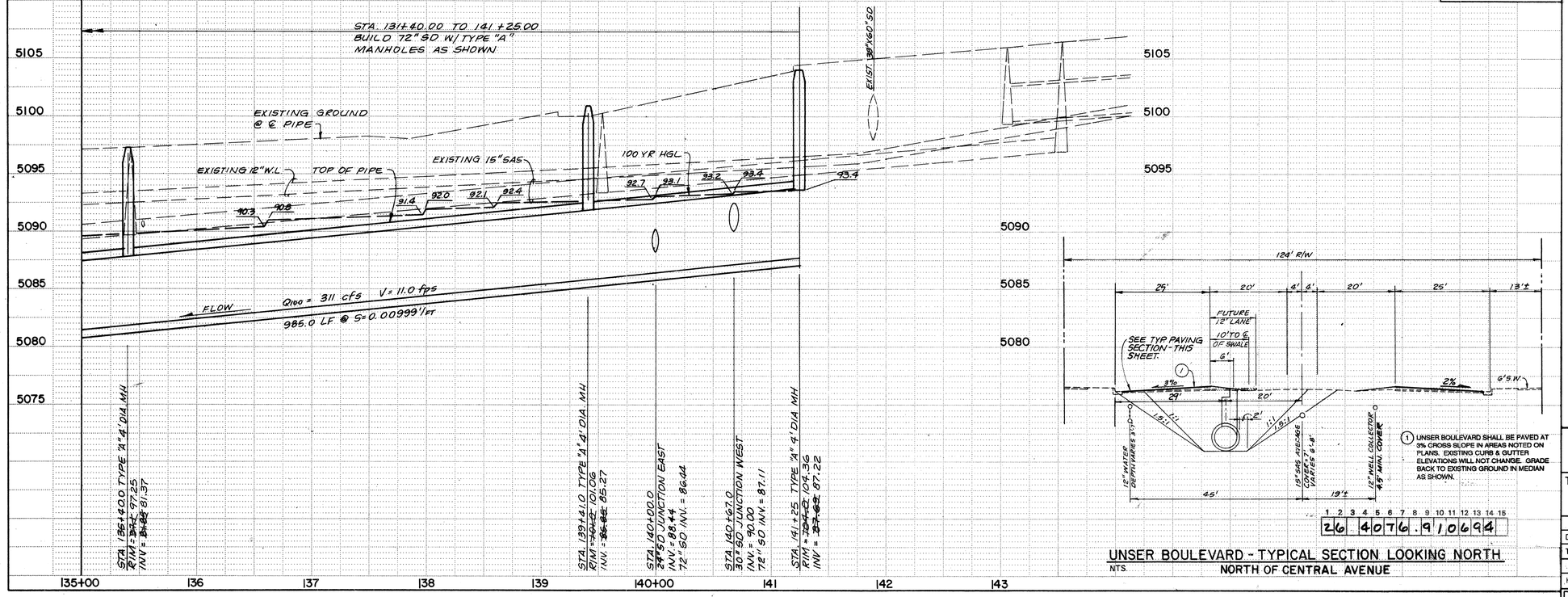


UNSER BOULEVARD, CENTRAL AVENUE
SCALE: 1/2" = 1'

CURB OPENING INLETS		
	STA.	TYPE*
WEST		
	140+93	Double Wing L = 17' w/3' Maintenance Box
EAST		
	140+66	Double Wing L = 17' w/3' Maintenance Box

* SEE CURB OPENING INLET DETAIL, SHEET 9.
* SEE SD LATERAL PROFILES, SHEET 8.

SCALE:
1" = 50' HORIZONTAL
1" = 5' VERTICAL



1 UNSER BOULEVARD SHALL BE PAVED AT 3% CROSS SLOPE IN AREAS NOTED ON PLANS. EXISTING CURB & GUTTER ELEVATIONS WILL NOT CHANGE. GRADE BACK TO EXISTING GROUND IN MEDIAN AS SHOWN.

UNSER BOULEVARD - TYPICAL SECTION LOOKING NORTH
NTS. NORTH OF CENTRAL AVENUE

RECORD DRAWINGS 9/7/94

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT AS-CONSTRUCTED CONDITIONS IN ACCORDANCE WITH INFORMATION FURNISHED BY THE CONTRACTOR (MCC, INC.) AND THE CITY OF ALBUQUERQUE, WHICH PERFORMED ON-SITE INSPECTION DURING CONSTRUCTION AND CONSTRUCTION SURVEYS.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1880	GREINER	6-7/90
1883	GREINER	7&9/90
1886	GREINER	12/90
1893	GREINER	12/90
1893	GREINER	1/91
1910	GREINER	9-10/91

BENCH MARKS

TBM-AMOLE 13 - BRASS CAP SET IN THE NORTH SIDE OF BRIDGE BOULEVARD APPROXIMATELY 30' NORTH OF THE EDGE OF PAVEMENT AND APPROXIMATELY 125' WEST OF SESAME STREET. N = 1,481,394.909 E = 360,370.080 ELEV = 5072.064

TBM-AMOLE 14 - BRASS CAP ON THE NORTHWESTERLY TURN ISLAND IN THE INTERSECTION OF NORTH/SOUTH COORS CONNECTION AND BRIDGE BOULEVARD. N = 1,481,087.480 E = 361,880.107 ELEV = 5035.731

AS BUILT INFORMATION

CONTRACTOR MCC, INC.

	DATE
WORK FIELD BY COA	1994
INSPECTORS ACCEPTANCE BY COA	DATE 7/94
FIELD VERIFICATION BY COA	DATE 7/94
DRAWINGS CORRECTED BY GREINER	DATE 7/94
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

ENGINEER'S SEAL

MARK S. HOLSTAD NEW MEXICO No. 7288 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY SKJ	DATE 10-90
		DRAWN BY AH	DATE 10-90
		CHECKED BY LSJ	DATE 8-91

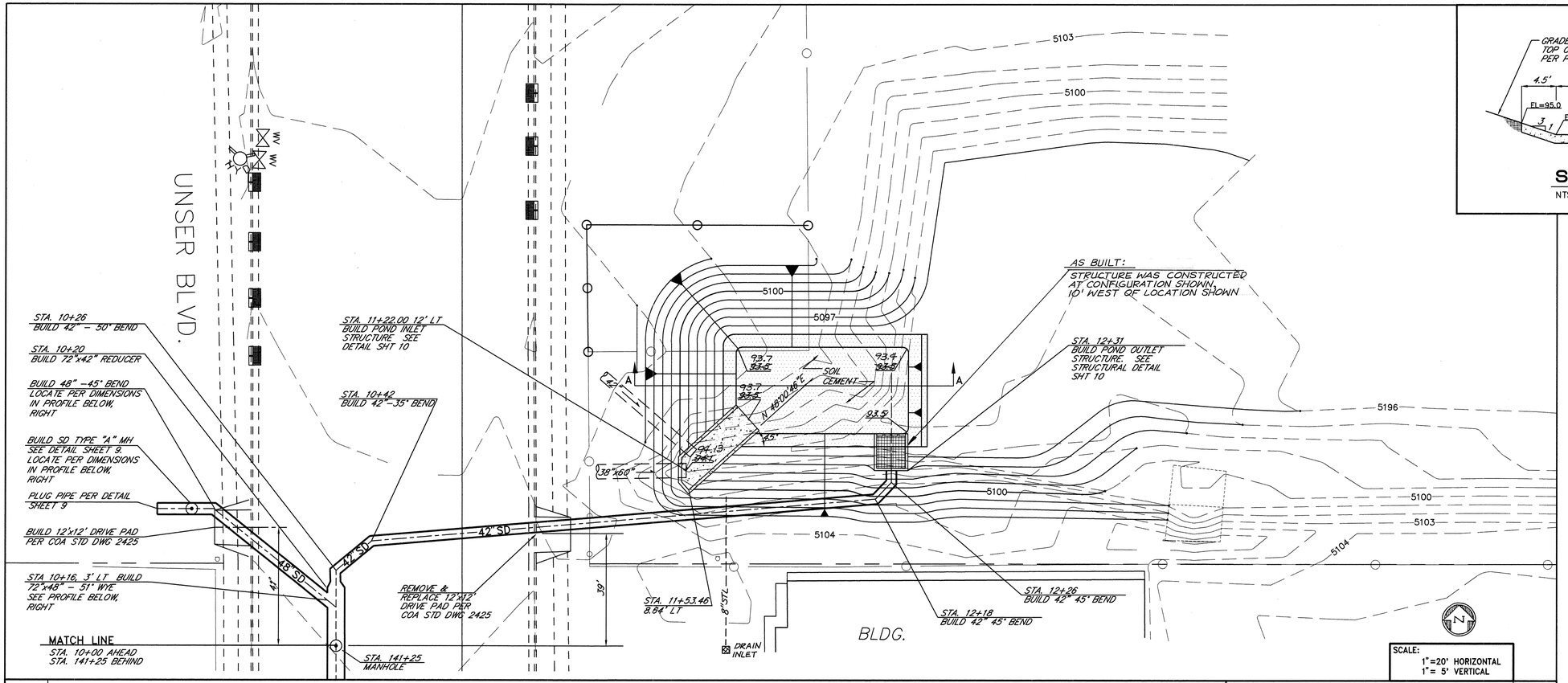
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

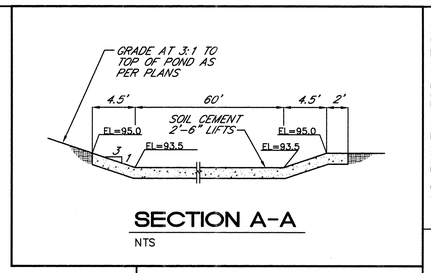
TITLE: AMOLE DEL NORTE STORM DIVERSION FACILITIES - PHASE IIIB
TIERRA BAYITA DRAINAGE FACILITIES

UNSER BOULEVARD - STA. 135+00 TO STA. 142+57

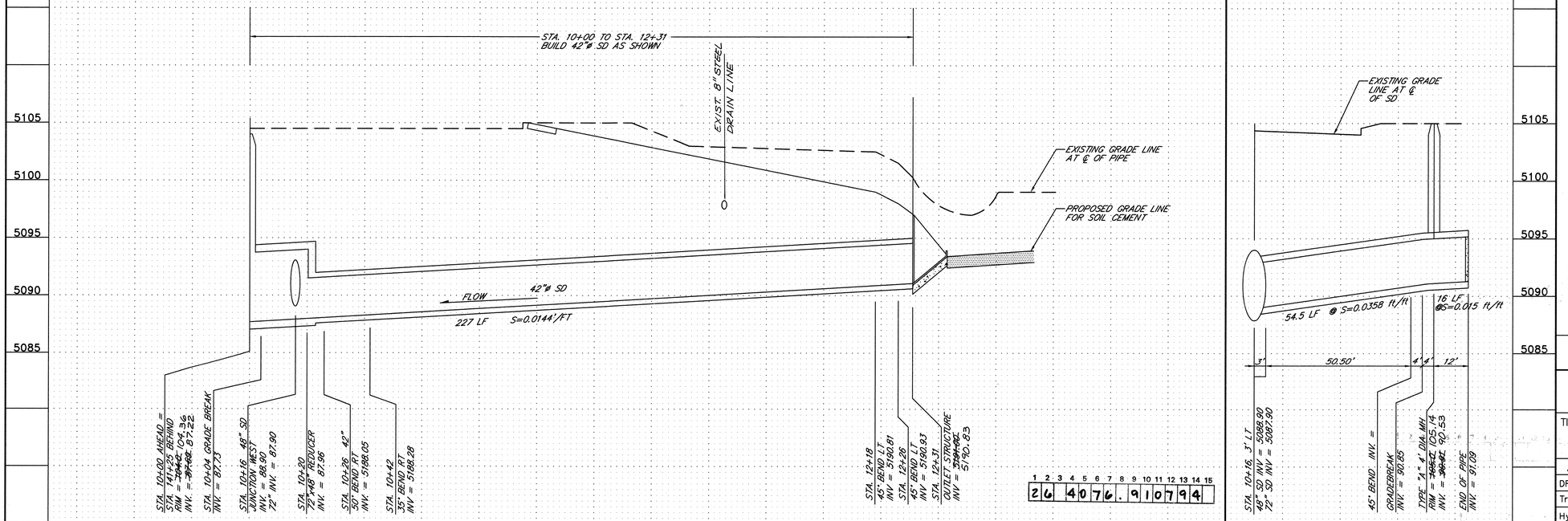
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	S.J. Lansberg	11-08-93	Water	William Baker	10-29-93
Trans. Dev.	L Dent	11-09-93	Wastewater	William Baker	10-29-93
Hydrology	L Ellis	11-1-93			

DRAWING NO. 4076.90 | MAP NO. K-10 | SHEET 6 OF 19





SECTION A-A
NTS



AS BUILT INFORMATION		
CONTRACTOR MCC, INC.	DATE	1994
WORK STAKED BY COA		
INSPECTORS ACCEPTANCE BY COA	DATE	7/94
FIELD VERIFICATION BY COA	DATE	7/94
DRAWING CORRECTED BY GREINER	DATE	7/94
MICRO-FILM INFORMATION		
RECORDED BY	DATE	

BENCH MARKS

ACS 10-L-9 ALUMINUM CAP SET IN CONCRETE CURB ON THE NNORTHEASTERLY TURN ISLAND IN THE INTERSECTION OF 98TH STREET AND CENTRAL AVENUE.
N = 1,482,085.203 E = 352,792.376
ELEV = 5204.425

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1880	GREINER	6-7/90
1883	GREINER	7&8/90
1886	GREINER	12/90
1893	GREINER	12/90
1893	GREINER	1/91
1910	GREINER	9-10/91

ENGINEER'S SEAL

MARK S. HOLSTAD
NEW MEXICO
10288
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY: JC/SKJ DATE 9/93
DRAWN BY: BJB/JLR DATE 9/93
CHECKED BY: MSH DATE 9/93 PROJECT NO.

RECORD DRAWINGS 9/7/94

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT AS-CONSTRUCTED CONDITIONS IN ACCORDANCE WITH INFORMATION FURNISHED BY THE CONTRACTOR (MCC, INC.) AND THE CITY OF ALBUQUERQUE, WHICH PERFORMED ON-SITE INSPECTION DURING CONSTRUCTION AND CONSTRUCTION SURVEYS.

Greiner, Inc.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: AMOLE DEL NORTE STORM DIVERSION FACILITIES – PHASE III B
TIERRA BAYITA DRAINAGE FACILITIES

42" STORM DRAIN – STA. 10+00 TO STA. 12+31

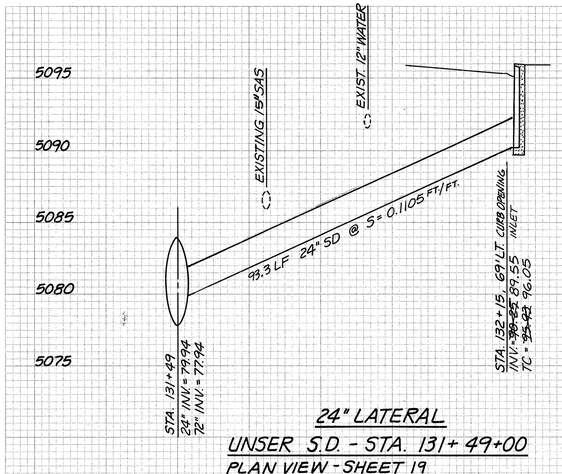
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chairman	B.J. Bentley	11-08-93	Water	William Mosher	10-29-93
Transportation	R Bruce	11-09-93	Waste Water	William Mosher	10-29-93
Hydrology	R Bruce	11-1-93			

DRAWING NO. 4076.91 | MAP NO. K-10 | SHEET 7 OF 19

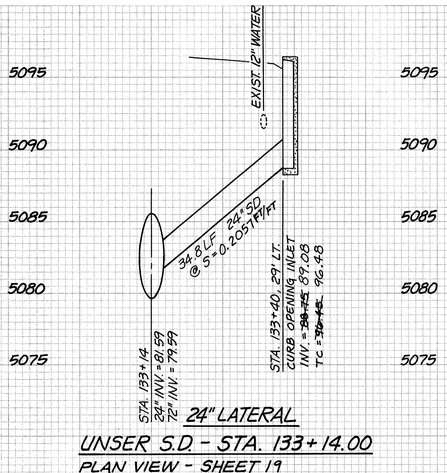
DDPL01.DWG

F.H.W.A. REGION NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO			

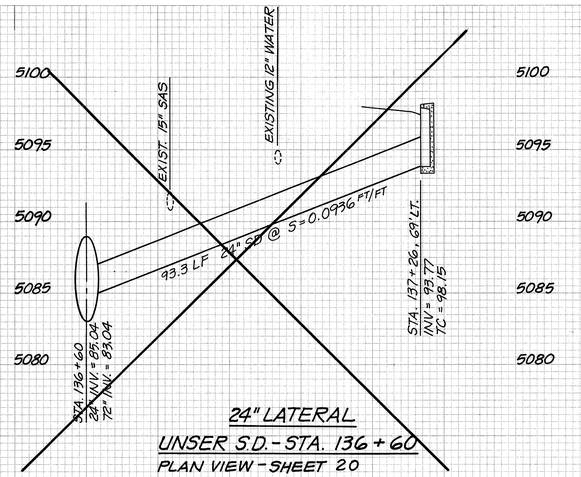
SCALE: HORIZ. 1"=20'
VERT. 1"=5'



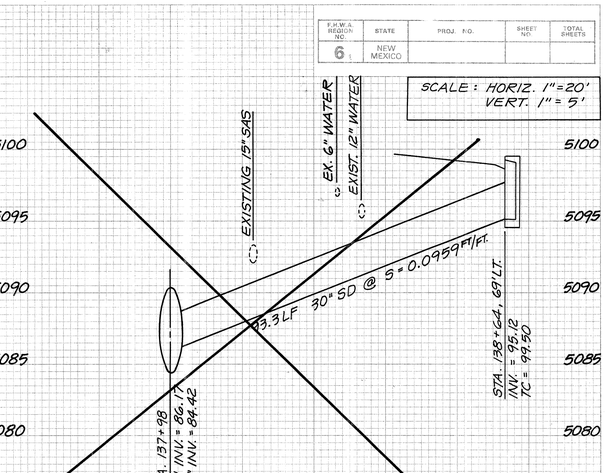
24" LATERAL
UNSER S.D. - STA. 131+49.00
PLAN VIEW - SHEET 19



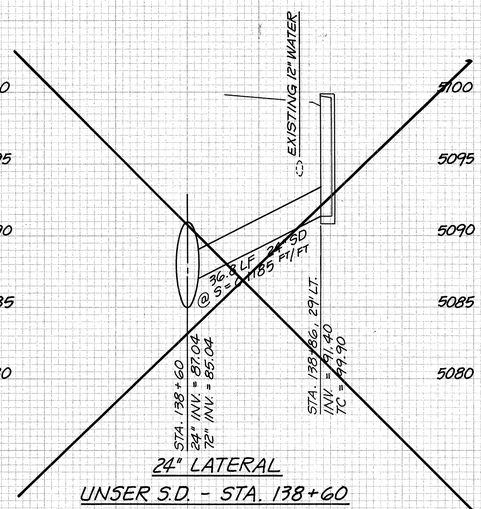
24" LATERAL
UNSER S.D. - STA. 133+14.00
PLAN VIEW - SHEET 19



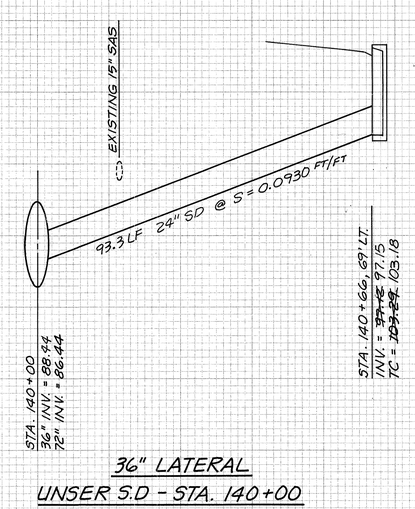
24" LATERAL
UNSER S.D. - STA. 136+60
PLAN VIEW - SHEET 20



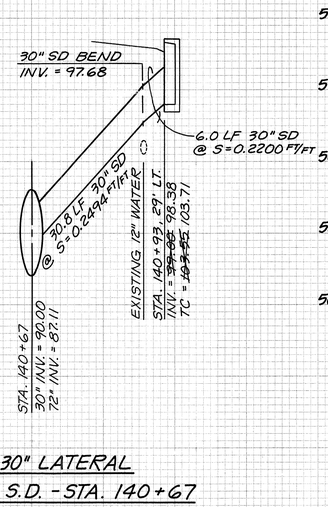
30" LATERAL
UNSER S.D. - STA. 137+98
PLAN VIEW - SHEET 20



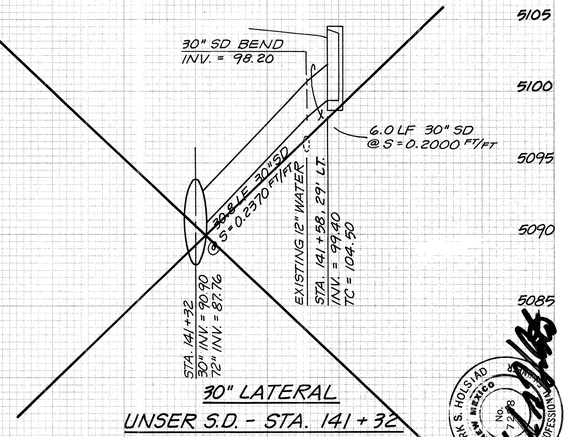
24" LATERAL
UNSER S.D. - STA. 138+60
PLAN VIEW - SHEET 20



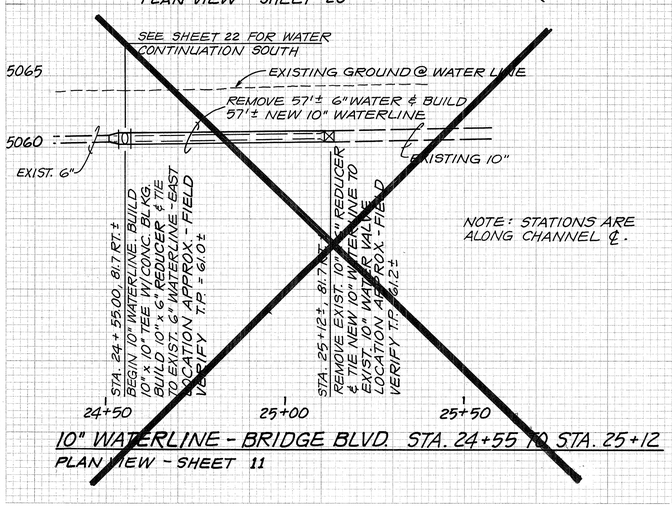
36" LATERAL
UNSER S.D - STA. 140+00
PLAN VIEW - SHEET 20



30" LATERAL
UNSER S.D. - STA. 140+67
PLAN VIEW - SHEET 20

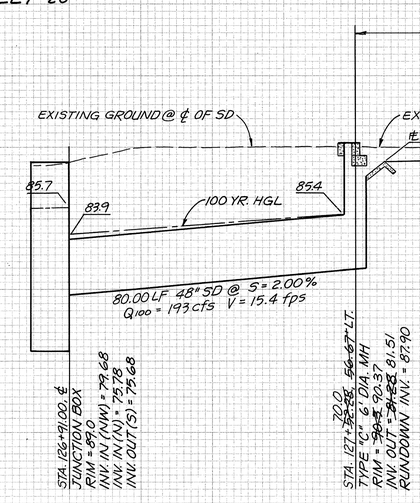


30" LATERAL
UNSER S.D. - STA. 141+32
PLAN VIEW - SHEET 20

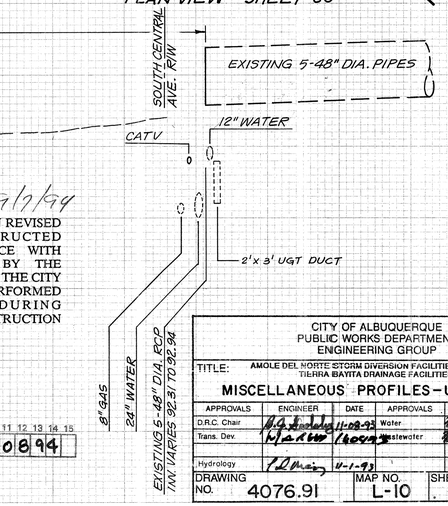


NOTE: STATIONS ARE ALONG CHANNEL ℄.

10" WATERLINE - BRIDGE BLVD. STA. 24+55 TO STA. 25+12
PLAN VIEW - SHEET 11



48" LATERAL & DITCH
UNSER S.D. - STA. 126+91
PLAN VIEW - SHEET 19



RECORD DRAWINGS 9/12/94

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26 4076.91 08 94

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: AMOLE DEL NORTE STORM DIVERSION FACILITIES - PHASE IIIB
TIJERAS ARROYO DRAINAGE FACILITIES

MISCELLANEOUS PROFILES - UNSER BLVD.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair		11-29-93	Water		12-29-93
Trans. Dev.		11-29-93	Wastewater		12-29-93
Hydrology		11-1-93			

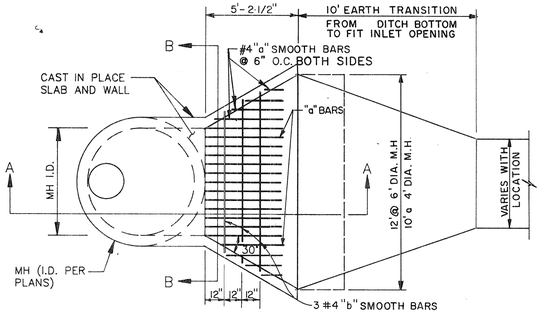
DRAWING NO. 4076.91 MAP NO. L-10 SHEET 8 OF 19

FINAL SURVEY — SURVEYED, PLOTTED, TRACED AT, AREAS, AREAS CHECKED, NOTE BOOK, NO., BY, DATE

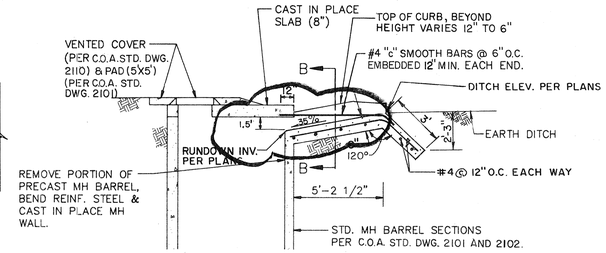
ORIGINAL SURVEY — SURVEYED, PLOTTED, TRACED AT, AREAS, AREAS CHECKED, NOTE BOOK, NO., BY, DATE

BRUNING 44-232 71609

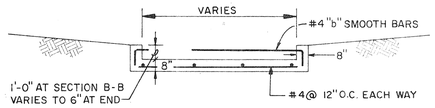
PROJECT NO. _____ SHEET NO. _____



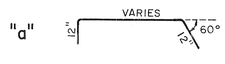
RUNDOWN INLET
SCALE: 1/4"=1'-0"

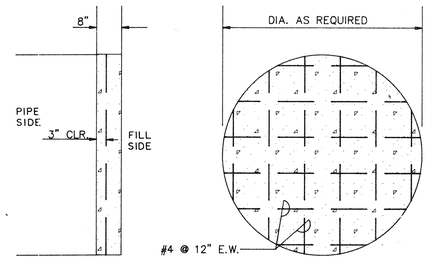


SECTION A-A
NOT TO SCALE

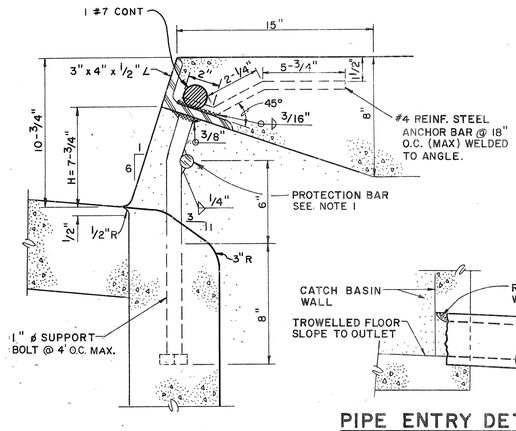


SECTION B-B
NOT TO SCALE

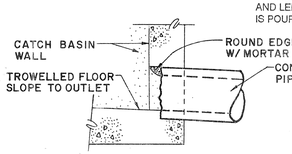




PIPE PLUG DETAIL
SCALE: 1/2" = 1'



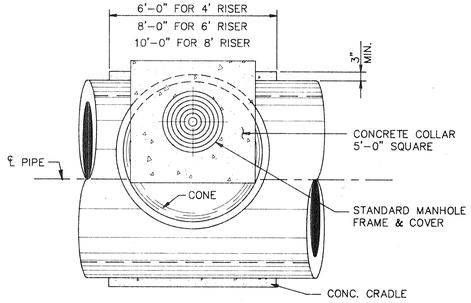
INLET CURB OPENING
DETAIL A



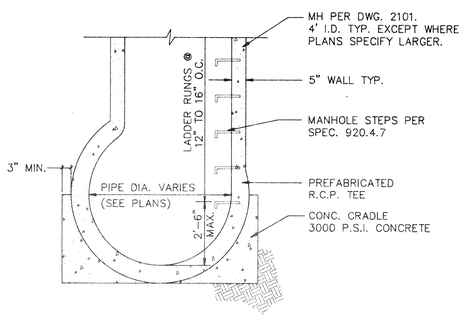
PIPE ENTRY DETAIL
DETAIL B

NOTES

1. INSTALL 1"Ø STEEL PROTECTION BARS. THE PROTECTION BARS SHALL EXTEND THE FULL LENGTH OF THE CURB OPENINGS AND SHALL BE EMBEDDED 3" (MIN.) AT EACH END.
2. INSTALL ADDITIONAL BARS AT 3-1/2" CLEAR SPACING ABOVE FIRST BAR WHEN OPENING EXCEEDS 13".
3. WHEN CURB OPENING LENGTH EXCEEDS 6', INSTALL 1"Ø STEEL SUPPORT BOLTS, SPACED AT NO MORE THAN 5' O.C.
4. AFTER CLEANING SURFACE OF SCALE, RUST, ETC., ALL EXPOSED METAL HARDWARE SHALL BE PAINTED WITH ONE SHOP COAT RED OXIDE, TWO FINISH COATS ALUMINUM PAINT (AASHTO M 69).
5. CONNECTOR PIPE SHALL BE TRIMMED TO THE FINAL SHAPE AND LENGTH BEFORE CONCRETE IS POURED.

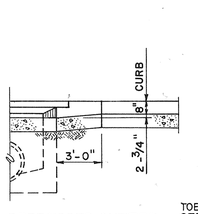


PLAN

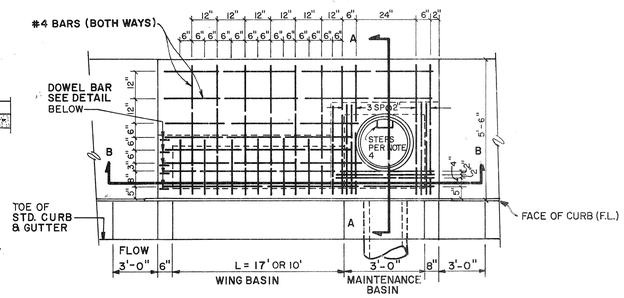


TYPE "A" MANHOLE
NOT TO SCALE

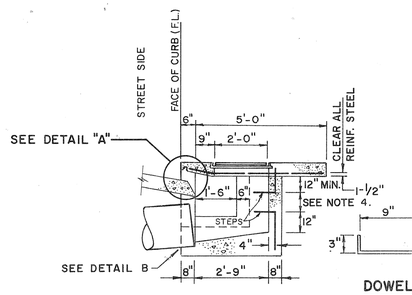
NOTE: MANUFACTURER'S DETAILS TO BE APPROVED BY ENGINEER PRIOR TO CONSTRUCTION.



DEPRESSED GUTTER TRANSITION (BOTH SIDES)

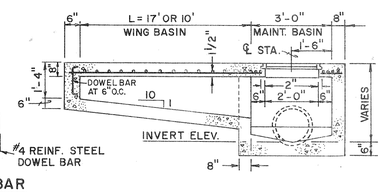


PLAN VIEW



SECTION A-A

DOWEL BAR DETAIL



SECTION B-B

NOTES

1. DOUBLE WING BASINS SHALL HAVE ONE WING PLACED SYMETRICALLY ON EACH SIDE OF MAINTENANCE BASIN. SINGLE WING BASINS SHALL HAVE ONE WING PLACED ON UPSTREAM SIDE OF MAINTENANCE BASIN.
2. CONNECTOR PIPES SHALL BE PLACED IN THE APPROPRIATE WALL OF THE MAINTENANCE BASIN.
3. FLOOR OF BASIN SHALL BE TROWELLED TO A HARD, SMOOTH SURFACE AND SHALL SLOPE FROM ALL DIRECTIONS TO OUTLET.
4. STEPS AS PER SPEC. 920.4.7. PLACE ONE STEP 12" ABOVE THE FLOOR OF THE BASIN. PLACE STEPS AT 12" INTERVALS FROM THE FLOOR OF THE BASIN WITH THE TOP STEP AT 12" (MIN.) BELOW THE TOP OF THE GRATE.
5. ACCESS FRAME AND COVER NEENAH R1706-IS.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
2 6 4 0 7 6 . 9 1 0 9 9 4

CURB OPENING INLET DETAIL, SINGLE & DBL. WING
NOT TO SCALE

AS BUILT INFORMATION
CONTRACTOR MCC, INC. DATE 1994
WORK INSPECTED BY COA DATE 7/94
ACCEPTANCE BY COA DATE 7/94
FIELD VERIFICATION BY COA DATE 7/94
DRAWING CORRECTED BY GREINER
MICRO-FILM INFORMATION
RECORDED BY DATE

BENCH MARKS
ACS 10-1-9 ALUMINUM CAP SET IN CONCRETE CURB ON THE NORTHEASTERLY TURN ISLAND IN THE INTERSECTION OF 98th STREET AND CENTRAL AVENUE.
N = 1,482,086.203 E = 352,792.376
ELEV = 5204.425

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1660	GHEINEH	6-7/90
1883	GREINER	7&9/90
1886	GREINER	12/90
1893	GREINER	12/90
1893	GREINER	1/91
1910	GREINER	8-10/91

ENGINEER'S SEAL

NO.	DATE	REMARKS REVISIONS DESIGN	BY
CO#1	1-94	ENLARGE OPENING ON RUNDOWN INLET @#1	GREINER

DESIGNED BY M.S.H. DATE: 8/91
DRAWN BY J.L.R./P.J.R. DATE: 8/91
CHECKED BY LSU DATE: 8/91
PROJECT NO. C00010

RECORD DRAWINGS 11/22/94

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT AS-CONSTRUCTED CONDITIONS IN ACCORDANCE WITH INFORMATION FURNISHED BY THE CONTRACTOR (MCC, INC.) AND THE CITY OF ALBUQUERQUE, WHICH PERFORMED ON-SITE INSPECTION DURING CONSTRUCTION AND CONSTRUCTION SURVEYS.

Greiner, Inc.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE AMOLE DEL NORTE STORM DIVERSION FACILITIES - PHASE IIB
TIERRA BAYITA DRAINAGE FACILITIES

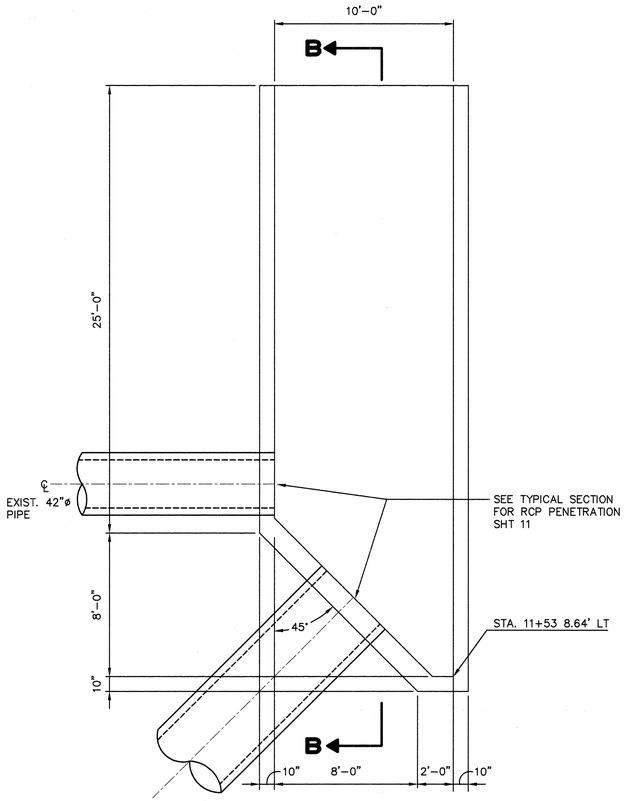
MISCELLANEOUS STORM DRAIN DETAILS

APPRVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chairman	B.J. Hendley	11-08-93	Water	N.A. MSB	10-29-93
Transportation	N/A CHD	11-04-93	Wastewater	N.A. MSB	10-29-93
Hydrology	T.E. Mein	11-1-93			

DRAWING NO. 4076.91 MAP NO. L-10 SHEET 9 OF 19

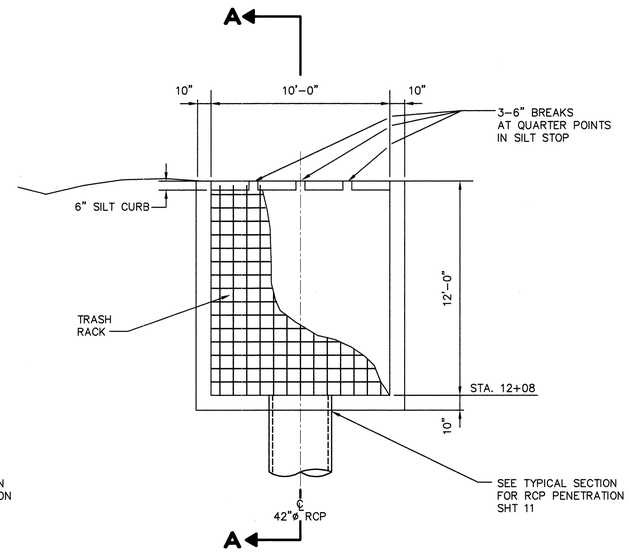
PLOTTED DEC 1 1993 CAD-DEPT

G101C02



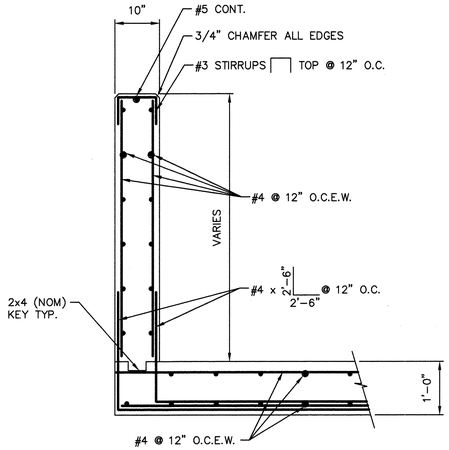
POND INLET PLAN

SCALE: 1/4"=1'



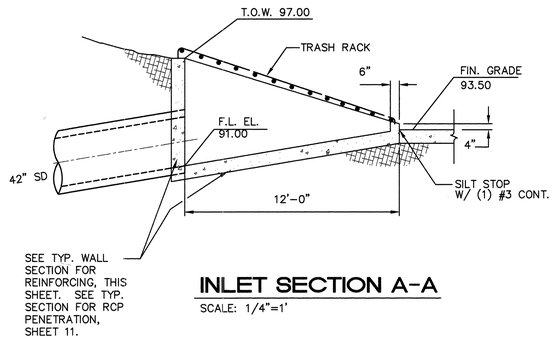
POND OUTLET PLAN

SCALE: 1/4"=1'



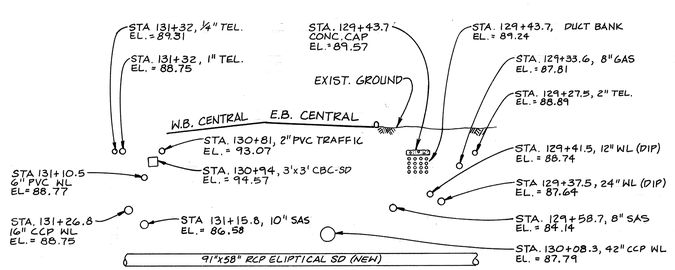
TYPICAL WALL SECTION

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



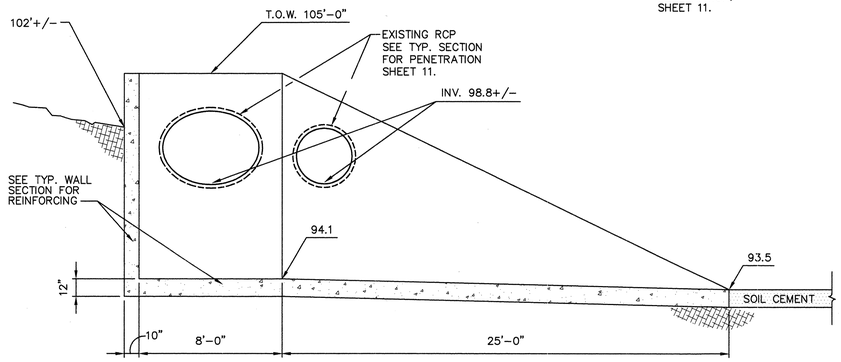
INLET SECTION A-A

SCALE: 1/4"=1'



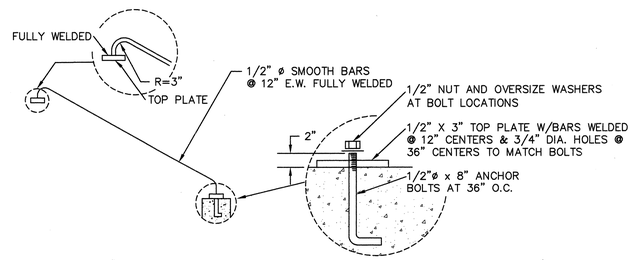
EXISTING UTILITIES AT CENTRAL & UNSER

NOT TO SCALE



SECTION B-B THRU OUTLET

SCALE: 1/4"=1'



TRASH RACK DETAIL

SCALE: 1/4"=1'

NOTES:
1. PAINT TRASH RACK DARK BROWN.

RECORD DRAWINGS 11/2/94

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT AS-CONSTRUCTED CONDITIONS IN ACCORDANCE WITH INFORMATION FURNISHED BY THE CONTRACTOR (MCC, INC.) AND THE CITY OF ALBUQUERQUE, WHICH PERFORMED ON-SITE INSPECTION DURING CONSTRUCTION AND CONSTRUCTION SURVEYS.

Greiner, Inc.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1880	GREINER	6-7/90
1883	GREINER	7&8/90
1886	GREINER	12/90
1893	GREINER	12/90
1893	GREINER	1/91
1910	GREINER	9-10/91

BENCH MARKS

ACS 10-L-9 ALUMINUM CAP SET IN CONCRETE CURB ON THE NNORTHEASTERLY TURN ISLAND IN THE INTERSECTION OF 98TH STREET AND CENTRAL AVENUE.
N = 1,482,085.203 E = 352,792.376
ELEV = 5204.425

AS BUILT INFORMATION

CONTRACTOR	MCC, INC.	DATE 1994
WORK STAKED BY	COA	DATE 7/94
INSPECTORS PRESENCE	BY COA	DATE 7/94
FIELD CHANGES VERIFICATION	BY COA	DATE 7/94
DRAWING CORRECTED	BY GREINER	

MICRO-FILM INFORMATION

RECORDED BY DATE

ENGINEER'S SEAL

MARK S. S. HOLSTAD NEW MEXICO No. 7288 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS
		REVISIONS
		Greiner J.N. G000110 DESIGN
		DESIGNED BY: JC DATE 9-93
		DRAWN BY: JAK DATE 9-93
		CHECKED BY: MSH DATE 9-93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: AMOLE DEL NORTE STORM DIVERSION FACILITIES – PHASE III B
TIERRA BAYITA DRAINAGE FACILITIES

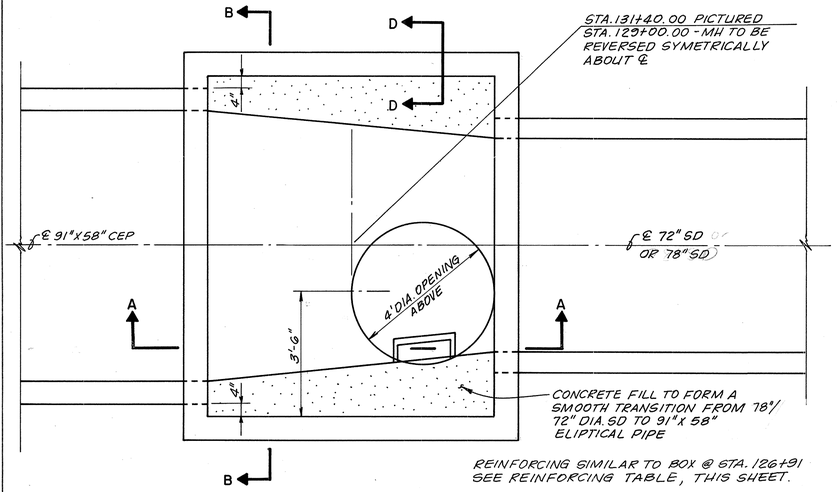
EXIST. UTILITIES ℄ POND STRUCTURE DETAILS

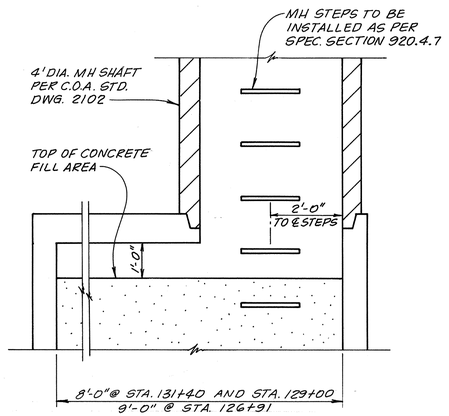
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chairman	B.G. Bentley	11-08-93	Water	N.A.	10-29-93
Transportation	NARMD	11-09-93	Waste Water	N.A.	10-29-93
Hydrology	Tom Mein	11-1-93			

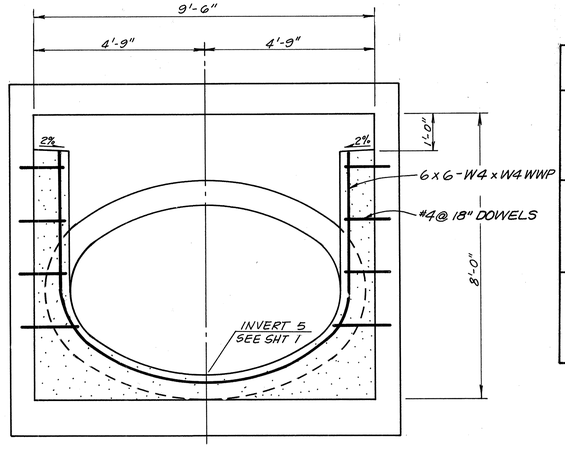
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
2 6 4076.91 1 0 9 4

DRAWING NO. 4076.91 | MAP NO. K-10 | SHEET 10 OF 19

D00T01



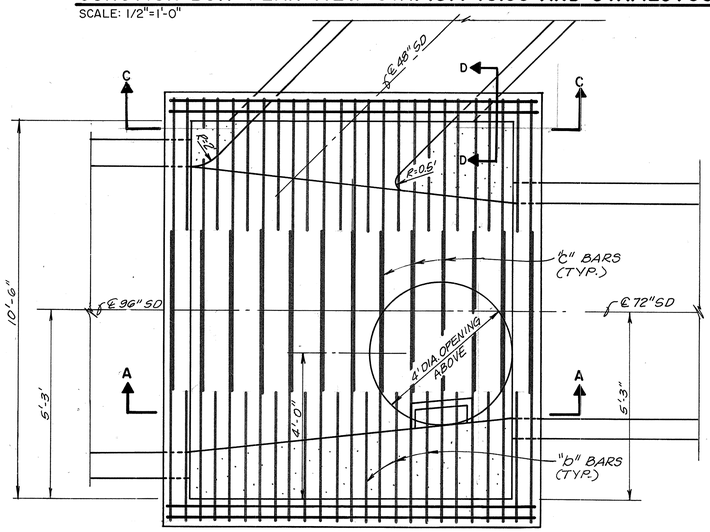




Structure Location	Bar	Size	Spacing (Inches)	Dimension (Inches)
		REINFORCEMENT		CONCRETE
STA. 126+91	a	#6	8	T_1 8-1/2
	b	#6	8	T_2 9
	c	#6	8	T_3 9
	e	#4	8	
STA. 129+00	a	#6	10	T_1 8
	b	#6	10	T_2 8
	c	#6	10	T_3 8
	e	#4	10	
STA. 131+40	a	#6	10	T_1 8
	b	#6	10	T_2 8
	c	#6	10	T_3 8
	e	#4	10	

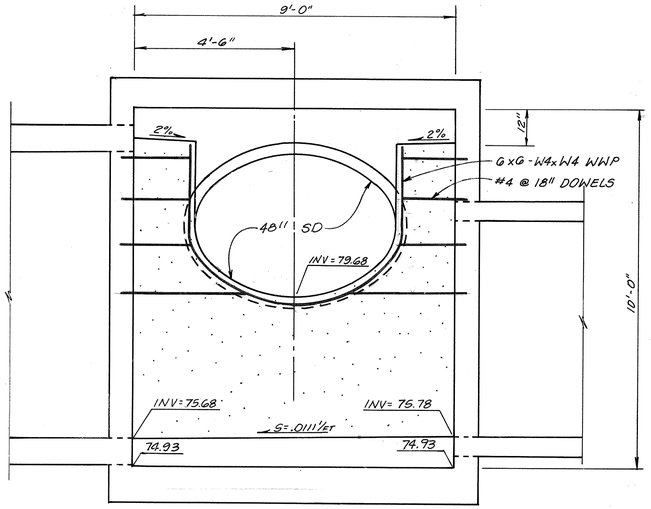
JUNCTION BOX - PLAN VIEW STA. 131+40.00 AND STA. 129+00.00

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



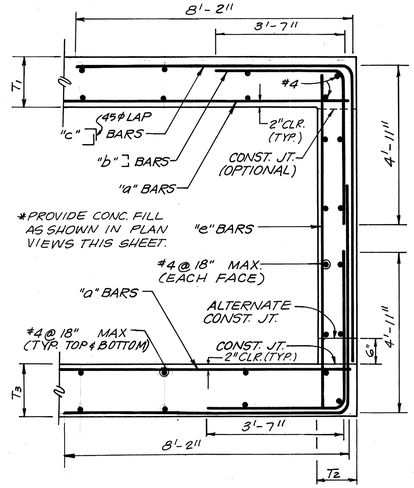
SECTION A-A

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



SECTION B-B

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

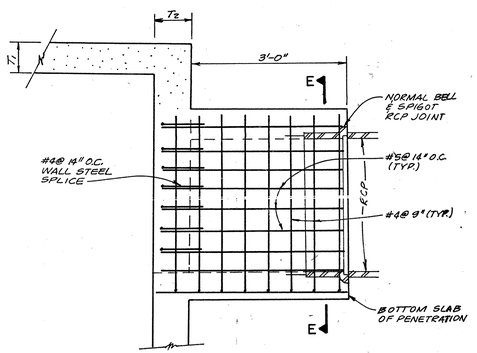


JUNCTION BOX - PLAN VIEW STA. 126+91.00

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

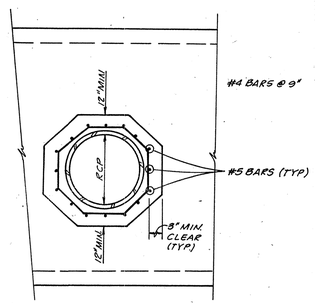
TYPICAL WALL SECTION D-D

NOT TO SCALE

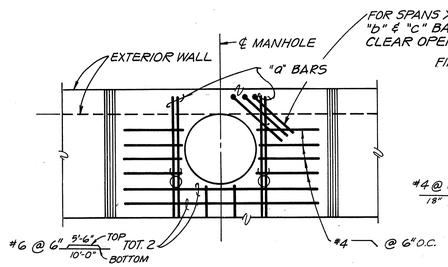


TYPICAL SECTION FOR RCP PENETRATION

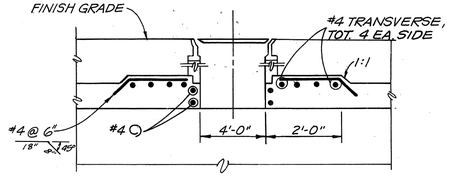
NOT TO SCALE



SECTION E-E



PART PLAN



LONGITUDINAL SECTION

MANHOLE

NOT TO SCALE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	6	4	0	7	6	.	9	1	1	1	9	4		

RECORD DRAWINGS 7/27/94

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SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1880	GREINER	6-7/90
1883	GREINER	7&9/90
1886	GREINER	12/90
1893	GREINER	12/90
1893	GREINER	1/91
1910	GREINER	9-10/91

BENCH MARKS

ACS 10-9 ALUMINUM CAP SET IN CONCRETE CURB ON THE NORTHEASTERLY TURN ISLAND IN THE INTERSECTION OF 98th STREET AND CENTRAL AVENUE.
N = 1,462,065.203 E = 352,792.376
ELEV = 5204.425

AS BUILT INFORMATION

CONTRACTOR MCC, INC.
WORK STAKED BY COA DATE 7/94
INSPECTORS ACCEPTANCE BY COA DATE 7/94
FIELD VERIFICATION BY COA DATE 7/94
CORRECTIONS BY GREINER DATE 7/94
MICRO-FILM INFORMATION DATE
RECORDED BY
NO.

ENGINEER'S SEAL

MARK S. HOLSTAD NEW MEXICO 7288 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY	
		DRAWN BY AH DATE 1/91	
		CHECKED BY LGT DATE 8/91	

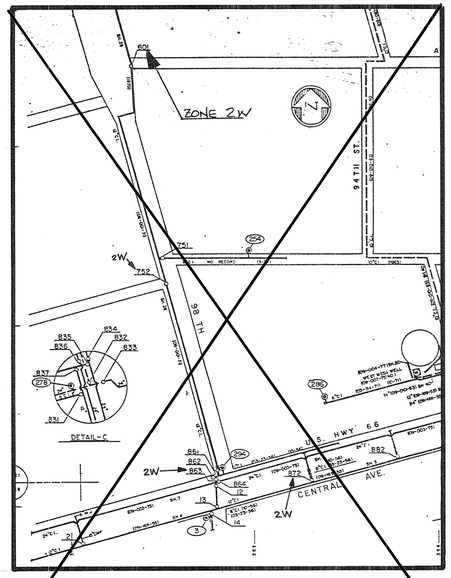
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: AMOLE DEL NORTE STORM DIVERSION FACILITIES - PHASE IIIB
TIERRA BAYITA DRAINAGE FACILITIES
JUNCTION BOX DETAILS

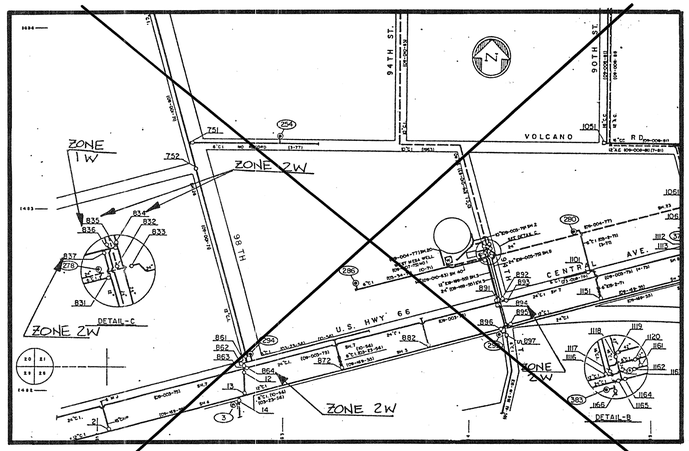
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	B.J. Goodwin	11-08-93	Water	N.A. Mgb	10-29-93
Trans. Dev.	N/A CHD	11-09-93	Wastewater	N.A. Mgb	10-29-93
Hydrology		11-1-93			

DRAWING NO. 4076.91 MAP NO. K,L-10 SHEET 11 OF 19

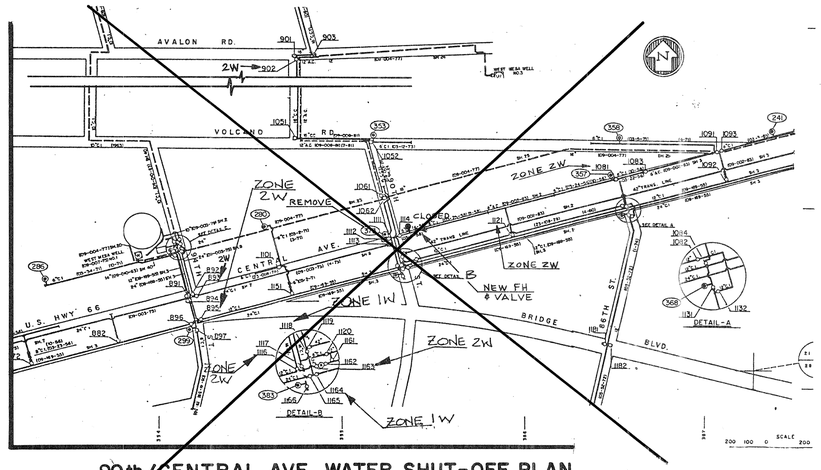
125090



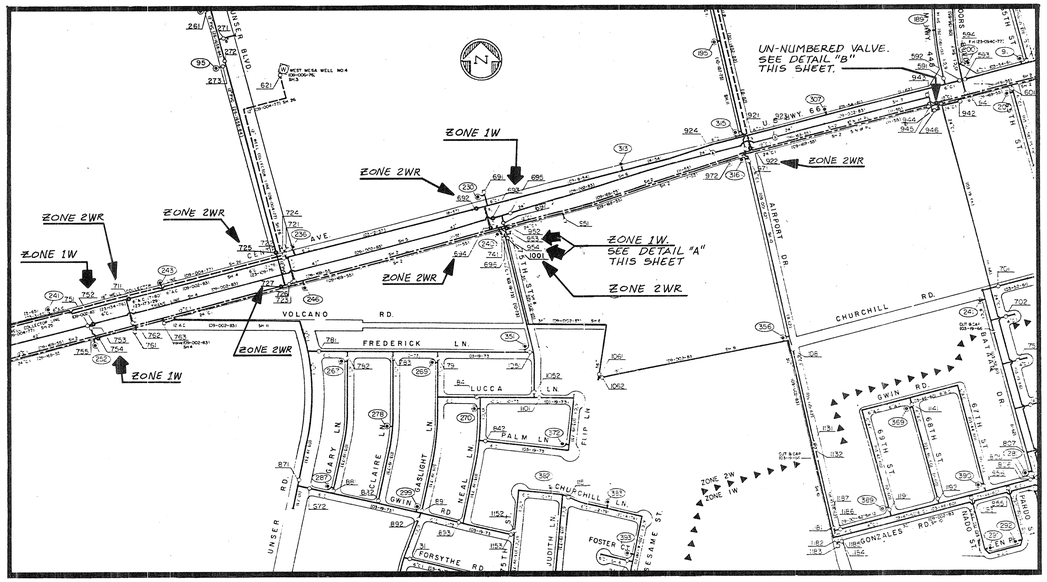
98th / CENTRAL AVE. WATER SHUT-OFF PLAN



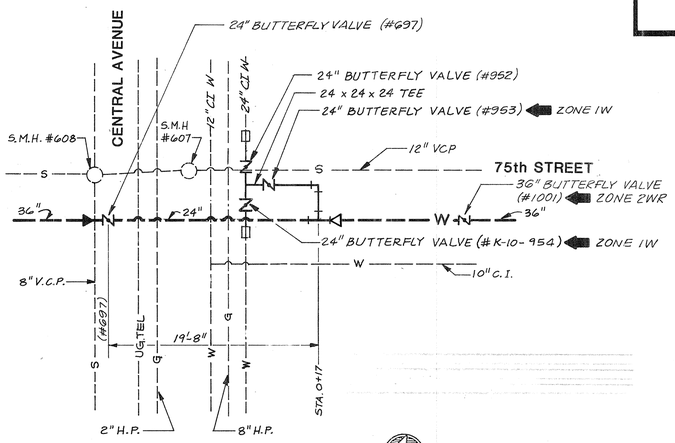
94th / CENTRAL AVE. WATER SHUT-OFF PLAN



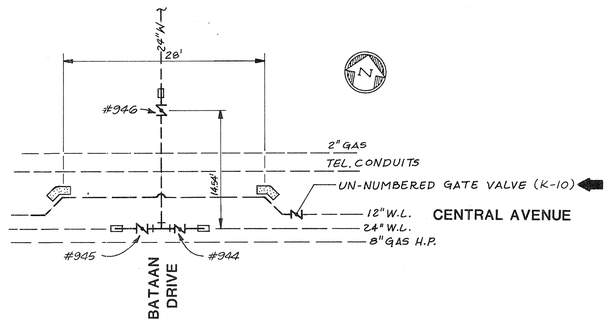
90th / CENTRAL AVE. WATER SHUT-OFF PLAN



UNSER BLVD. / CENTRAL AVE. WATER SHUT-OFF PLAN



DETAIL "A"
SCALE: 1" = 10'



DETAIL "B"
N.T.S.

NOTE: DETAILS A & B ARE REFERENCED IN UNSER/CENTRAL SHUT-OFF PLAN ABOVE AND ARE SHOWN ONLY TO CLARIFY THE VALVE LOCATIONS. THERE IS NO CONSTRUCTION INVOLVED WITH EITHER DETAIL.

SEQUENCE - WATER LINE SHUT DOWNS AT UNSER AND CENTRAL

1. TEST SHUT DOWN OF THE FOLLOWING WATER LINES IN CENTRAL SHALL BE REQUIRED PRIOR TO CONSTRUCTION OF THE STORM DRAIN UNDER THE WATER LINES:
   - 12" (ZONE 2WR)
   - 24" AND 42" (ZONE 1W)
2. THE 24" (ZONE 1W) MAY BE SHUT DOWN INDEFINITELY. THE 12" (ZONE 2WR) LINE AND 42" (ZONE 1W) LINE MAY BE SHUT DOWN A MAXIMUM OF 8 HOURS EACH AND ONLY FROM SEPTEMBER 1 TO APRIL 30.
3. 24" AND 42" LINES (ZONE 1W) MUST BE SHUT DOWN DURING CONSTRUCTION OF STORM DRAIN UNDER THE WATER LINES.
4. 12" (ZONE 2WR) AND 24" (ZONE 1W) CAST IRON WATER LINES MUST BE REPRESSURIZED AFTER STORM DRAIN CONSTRUCTION AND BACKFILL; AND TOP HALF OF JOINTS WITHIN THE TRENCH PRISM SHALL BE EXPOSED AND CHECKED FOR LEAKS.
5. SHUT DOWN AND DEWATERING OF THE 12" (ZONE 2WR) LINE IS ONLY REQUIRED IF THE LINE IS DAMAGED AND LEAKS DURING INSTALLATION OF THE STORM DRAIN.
6. ALBUQUERQUE FIRE DEPARTMENT SHALL BE ALERTED OF LOW PRESSURE IN THE SKYVIEW WEST SUBDIVISION IF 12" (ZONE 2WR) LINE IS SHUT DOWN.

AS BUILT INFORMATION
CONSTRUCTION BY MCC, INC. DATE 1994
AS-BUILTED BY COA DATE 7/94
ASSESSMENTS BY COA DATE 7/94
FIELD EXAMINATION BY COA DATE 7/94
CORRECTED BY GREINER DATE 7/94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
ACS 10-1-9 ALUMINUM CAP SET IN CONCRETE CURB ON THE NORTHEASTERLY TURN ISLAND IN THE INTERSECTION OF 98th STREET AND CENTRAL AVENUE.
N = 1,482,085.203 E = 352,792.376
ELEV = 5204.425

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1880	GREINER	6-7/90
1883	GREINER	7&9/90
1886	GREINER	12/90
1893	GREINER	12/90
1893	GREINER	1/91
1910	GREINER	9-10/91

ENGINEER'S SEAL

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
2 6 4 0 7 6 . 9 1 1 2 9 4

RECORD DRAWINGS 9/7/94

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT AS-CONSTRUCTED CONDITIONS IN ACCORDANCE WITH INFORMATION FURNISHED BY THE CONTRACTOR (MCC, INC.) AND THE CITY OF ALBUQUERQUE, WHICH PERFORMED ON-SITE INSPECTION DURING CONSTRUCTION AND CONSTRUCTION SURVEYS.

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DATE
		DESIGNED BY	DATE
		DRAWN BY	DATE
		CHECKED BY	DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: AMOLE DEL NORTE STORM DIVERSION FACILITIES - PHASE IIIB
TIERRA BAYITA DRAINAGE FACILITIES
WATER SHUT-OFF PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair		11-08-93	Water	William Dodd	10-29-93
Trans. Dev.	N/A R.H.P.	11-04-93	Wastewater	William Dodd	10-27-93
Hydrology		11-1-93			

DRAWING NO. 4076.91 MAP NO. K 10 SHEET 12 OF 19

128990

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.

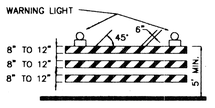
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

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

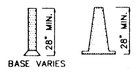
PROJECT CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

RECORD DRAWINGS 9/7/94

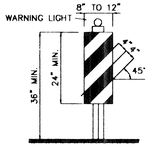
THESE DRAWINGS HAVE BEEN REVISED TO REFLECT AS-CONSTRUCTED CONDITIONS IN ACCORDANCE WITH INFORMATION FURNISHED BY THE CONTRACTOR (MCC, INC.) AND THE CITY OF ALBUQUERQUE, WHICH PERFORMED ON-SITE INSPECTION DURING CONSTRUCTION AND CONSTRUCTION SURVEYS.



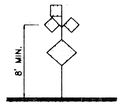
TYPE III BARRICADE



CONES



VERTICAL PANEL

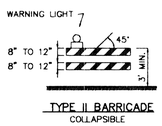


HIGH LEVEL WARNING DEVICE

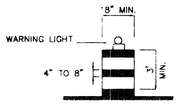
LEGEND

- WORK AREA
- BARRICADE - TYPE I, TYPE II, OR BARREL
- BARRICADE - TYPE III
- 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

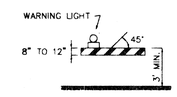
THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.



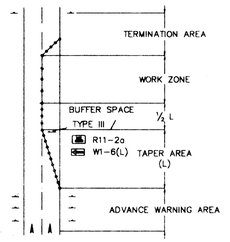
TYPE II BARRICADE
COLLAPSIBLE



BARRICADE



TYPE I BARRICADE
COLLAPSIBLE



TRAFFIC CONTROL ELEMENTS

TAPER REQUIREMENTS

SPEED LIMIT (MPH)	TAPER LENGTH (FEET) 10' LANE	11' LANE	12' LANE	MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET 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

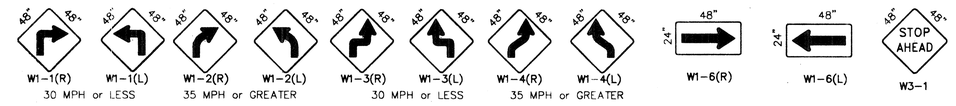
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	½ L MINIMUM
SHOULDER TAPER	½ L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

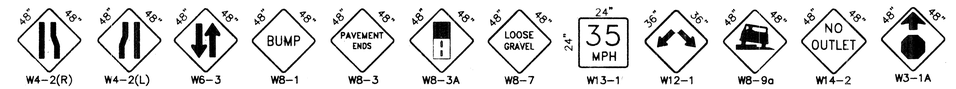
TAPER LENGTH COMPUTATION

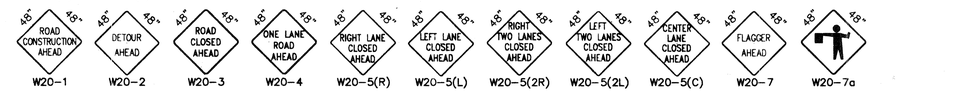
SPEED LIMIT	
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR GREATER	L = W x S

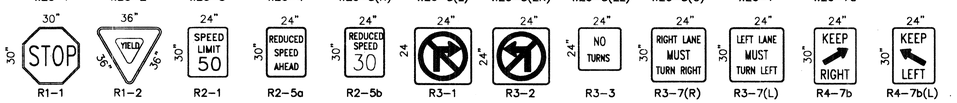
L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

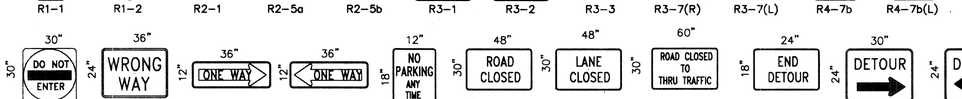
SIGN FACE DETAILS

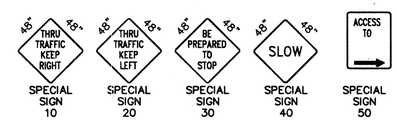






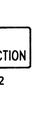






ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

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.



AS BUILT INFORMATION
CONTRACTOR MCC, INC. DATE
RVSD BY DATE 1994
MKD BY COA DATE 1994
INSPECTOR'S ACCEPTANCE BY COA DATE 1994
VERIFICATION BY COA DATE 1994
SURVEYED BY GREINER DATE 1994
CORRECTED BY MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES BY DATE
NO.

ENGINEER'S SEAL
RICARDO ROYBAL
NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		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: AMOLE DEL NORTE STORM DIVERSION FACILITIES - PHASE IIIB
TIERRA BAYITA DRAINAGE FACILITIES

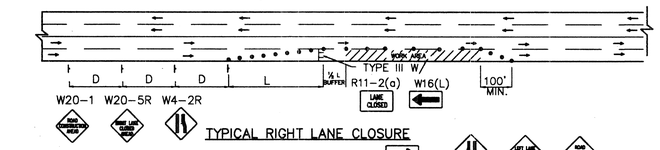
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.G.A.	11-08-93	WATER	N.A.	11-29-93
TRANSPORTATION	N/A RMD	11-09-93	WASTE WATER	N.A.	11-29-93
HYDROLOGY		11-1-93			

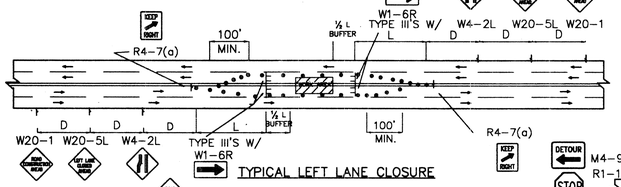
PROJECT NO. 4076.91
MAP NO.
SHEET OF 14 ~~15~~ 19

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 4076.91 11494

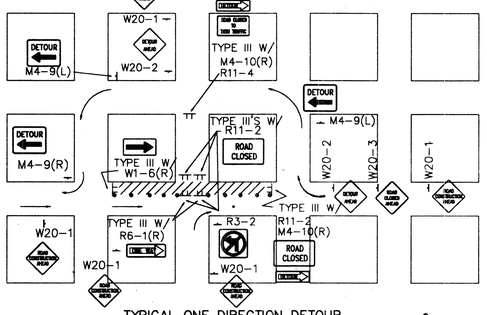
08-11-92
CTCSTD1.DWG (1=1)



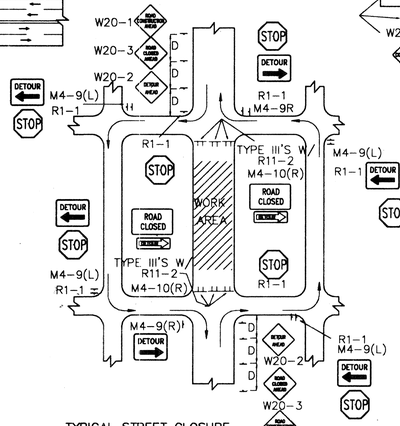
TYPICAL RIGHT LANE CLOSURE



TYPICAL LEFT LANE CLOSURE

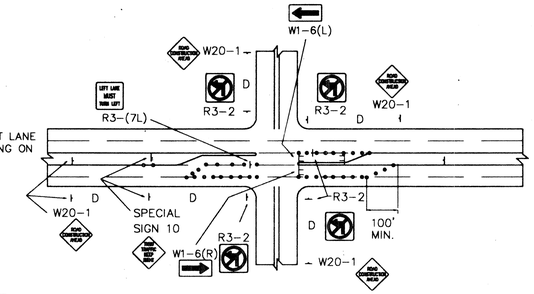


TYPICAL ONE DIRECTION DETOUR



TYPICAL STREET CLOSURE

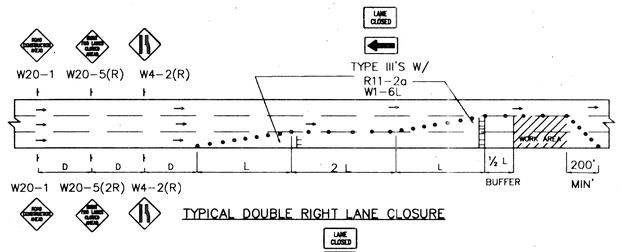
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



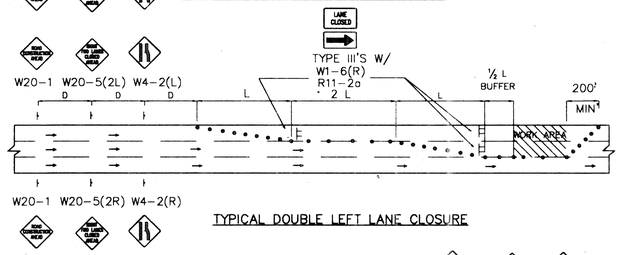
NOTE:
MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.

TYPICAL LANE CLOSURE AT INTERSECTION

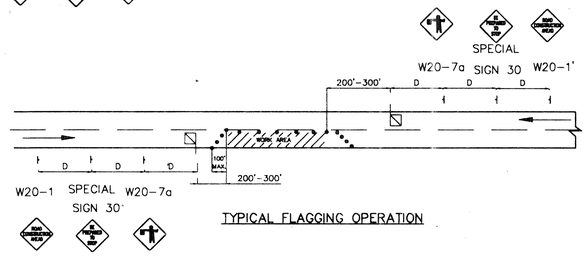
NOTE: DEPENDING ON WORK ZONE LOCATION



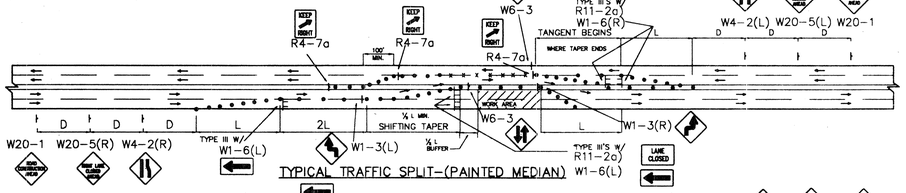
TYPICAL DOUBLE RIGHT LANE CLOSURE



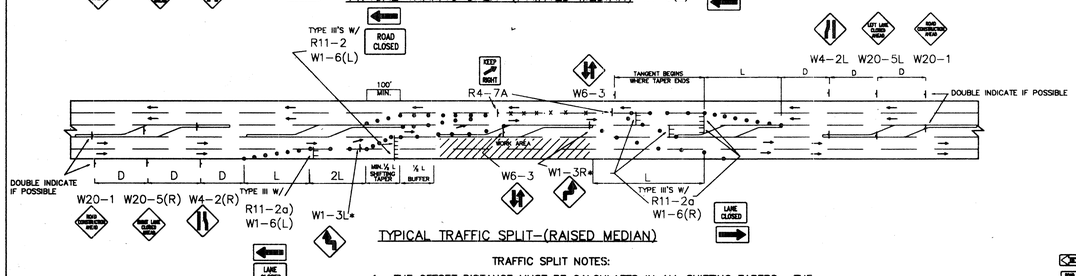
TYPICAL DOUBLE LEFT LANE CLOSURE



TYPICAL FLAGGING OPERATION



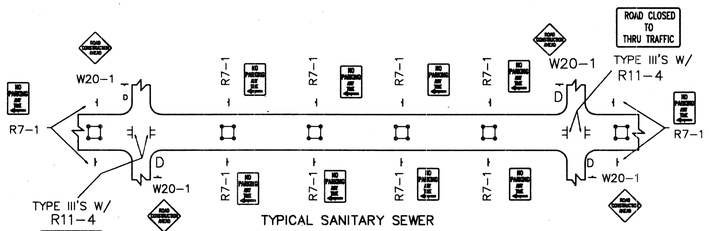
TYPICAL TRAFFIC SPLIT-(PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT-(RAISED MEDIAN)

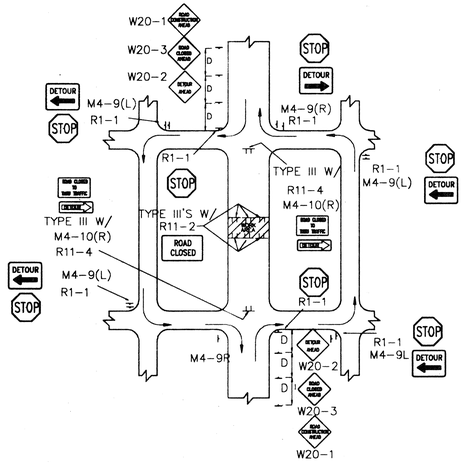
TRAFFIC SPLIT NOTES:

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.



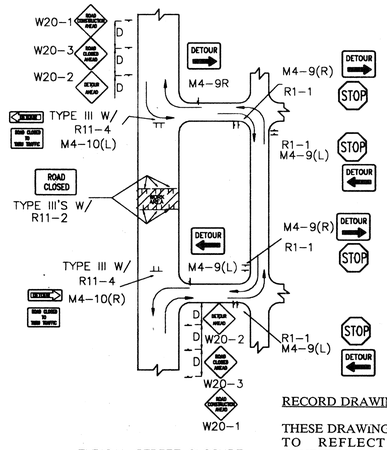
TYPICAL SANITARY SEWER SLIPLINING OPERATION

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



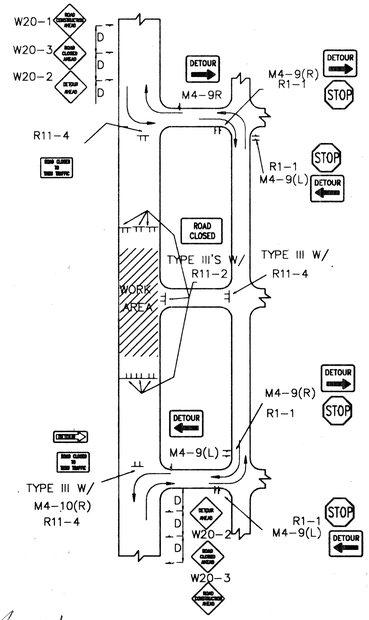
TYPICAL MID-BLOCK CLOSURE

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



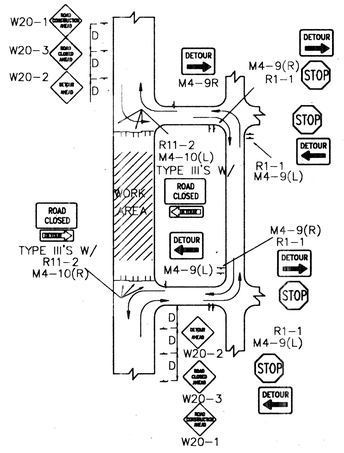
TYPICAL STREET CLOSURE

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



TYPICAL STREET CLOSURE

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



TYPICAL STREET CLOSURE

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

RECORD DRAWINGS

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 40 76.911594

AS BUILT INFORMATION
CONTRACTOR MCC, INC. DATE
SURVEYED BY COA DATE 7/94
INSPECTOR'S SIGNATURE BY COA DATE 7/94
FIELD VERIFICATION BY COA DATE 7/94
CORRECTION BY GREINER DATE 7/94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REMARKS
REVISIONS
DESIGN
NO. DATE BY
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

ENGINEER'S SEAL
RICARDO B. ROYBAL
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

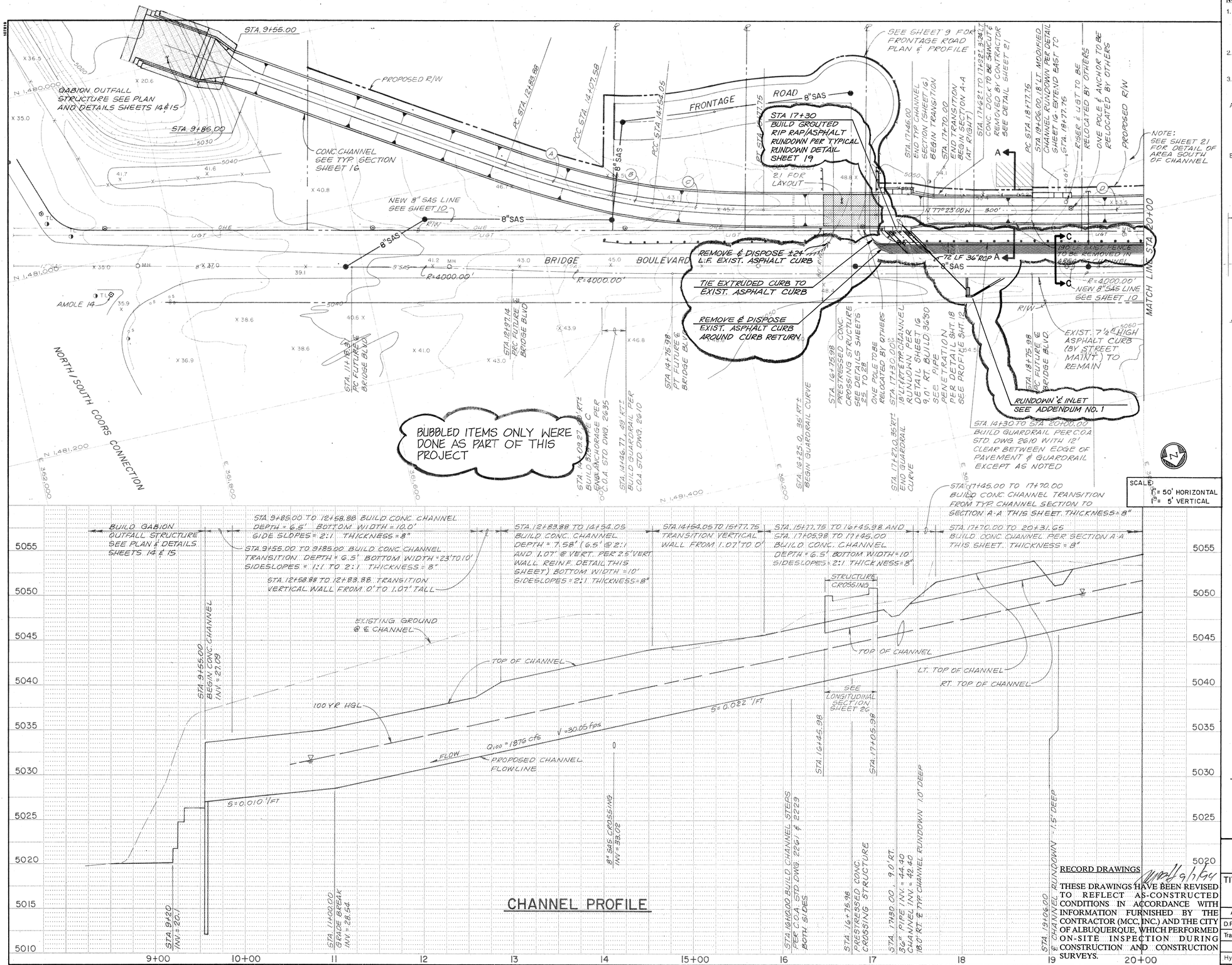
TITLE: AMOLE DEL NORTE STORM DIVERSION FACILITIES - PHASE III & TIERRA BAYITA DRAINAGE FACILITIES

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

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.G.L.	11-08-93	WATER	N.A. NGB	10-29-93
TRANSPORTATION	N/A RBR	11-09-93	WASTE WATER	N.A. NGB	10-29-93
HYDROLOGY	N/A				

PROJECT NO. 4076.91 | MAP NO. | SHEET 15 OF ~~15~~ 19

06-15-92
CTCSTD12.DWG



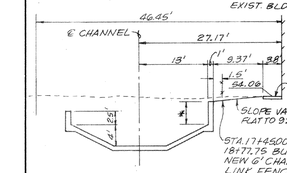
CHANNEL PROFILE

NOTES:

1. CONTRACTOR TO CONTACT PNM AT LEAST THREE WORKING DAYS PRIOR TO EXCAVATING ADJACENT TO POWER POLES. CONTRACTOR SHALL COORDINATE WITH PNM IN SUPPORTING THESE POLES INCLUDING ANY PAYMENT REQUIRED BY PNM.
2. THE AT&T FIBER OPTIC CABLE MUST BE COVERED AT NIGHT OR AT&T SHALL BE CONTACTED TO PROVIDE A GUARD.
3. ALL STATIONING IS ALONG CENTERLINE OF CHANNEL.

CENTER LINE CURVE DATA:

A	Δ = 07°05'15"	C	Δ = 07°05'15"
	R = 1000.00'		R = 1000.00'
	L = 123.70'		L = 123.70'
	T = 61.93'		T = 61.93'
B	Δ = 05°19'30"	D	Δ = 02°33'45"
	R = 500.00'		R = 4000.00'
	L = 46.47'		L = 178.90'
	T = 23.25'		T = 83.47'



℄ WALL HEIGHT - SOUTH (LEFT) SIDE ONLY
STA. 17+70.00 TO 18+77.75 - 0'-3"
SEE REINFORCING DETAIL BELOW
STA. 18+77.76 TO 19+02.00 - TRANSITION FROM 0'-3" TO 2'-6" SEE REINFORCING DETAIL BELOW
STA. 19+02.00 TO 20+31.65 - 2'-6"
SEE REINFORCING DETAIL BELOW

SECTION A-A

NTS

NOTE: CONTRACTOR MAY SUBSTITUTE TWO-BAR LAP CONFIGUERATION FOR A SINGLE BENT BAR.

VERTICAL WALL REINFORCING

NTS

1 2 3 4 5 6 7 8 9 10 11 12 13 14
2 6 4 0 7 6 . 9 1 1 6 9 4

RECORD DRAWINGS

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9-7-94

SURVEY INFORMATION — FIELD NOTES

NO.	BY	DATE
1880	GREINER	6-7/90
1883	GREINER	7&9/90
1886	GREINER	12/90
1893	GREINER	12/90
1903	GREINER	1/91
1910	GREINER	9-10/91

AS BUILT INFORMATION

BENCH MARKS

TBM-AMOLE 13 - BRASS CAP SET IN THE NORTH SIDE OF BRIDGE BOULEVARD APPROXIMATELY 30' NORTH OF THE EDGE OF PAVEMENT AND APPROXIMATELY 125' WEST OF SESAME STREET. N = 1,481,594.909 E = 360,370.080 ELEV = 5072.064

TBM-AMOLE 14 - BRASS CAP ON THE NORTHWESTERLY TURN ISLAND IN THE INTERSECTION OF NORTH/SOUTH COORS CONNECTION AND BRIDGE BOULEVARD. N = 1,481,037.480 E = 361,880.107 ELEV = 5035.731

CONTRACTOR MCC, INC.

WORK PERFORMED BY COA DATE 1994

INSPECTORS ACCEPTANCE BY COA DATE 7/94

FIELD VERIFICATION BY COA DATE 7/94

DRAWINGS PREPARED BY GREINER DATE 7/94

COMPUTER FILE MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

ENGINEER'S SEAL

MARK S. HOLSTAD — NEW MEXICO — No. 7288 — REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
1	2-94	CO #1	GREI

REVISIONS

DESIGNED BY MSH — DATE 8/90 8/91

DRAWN BY PRW — DATE 8/90 8/91

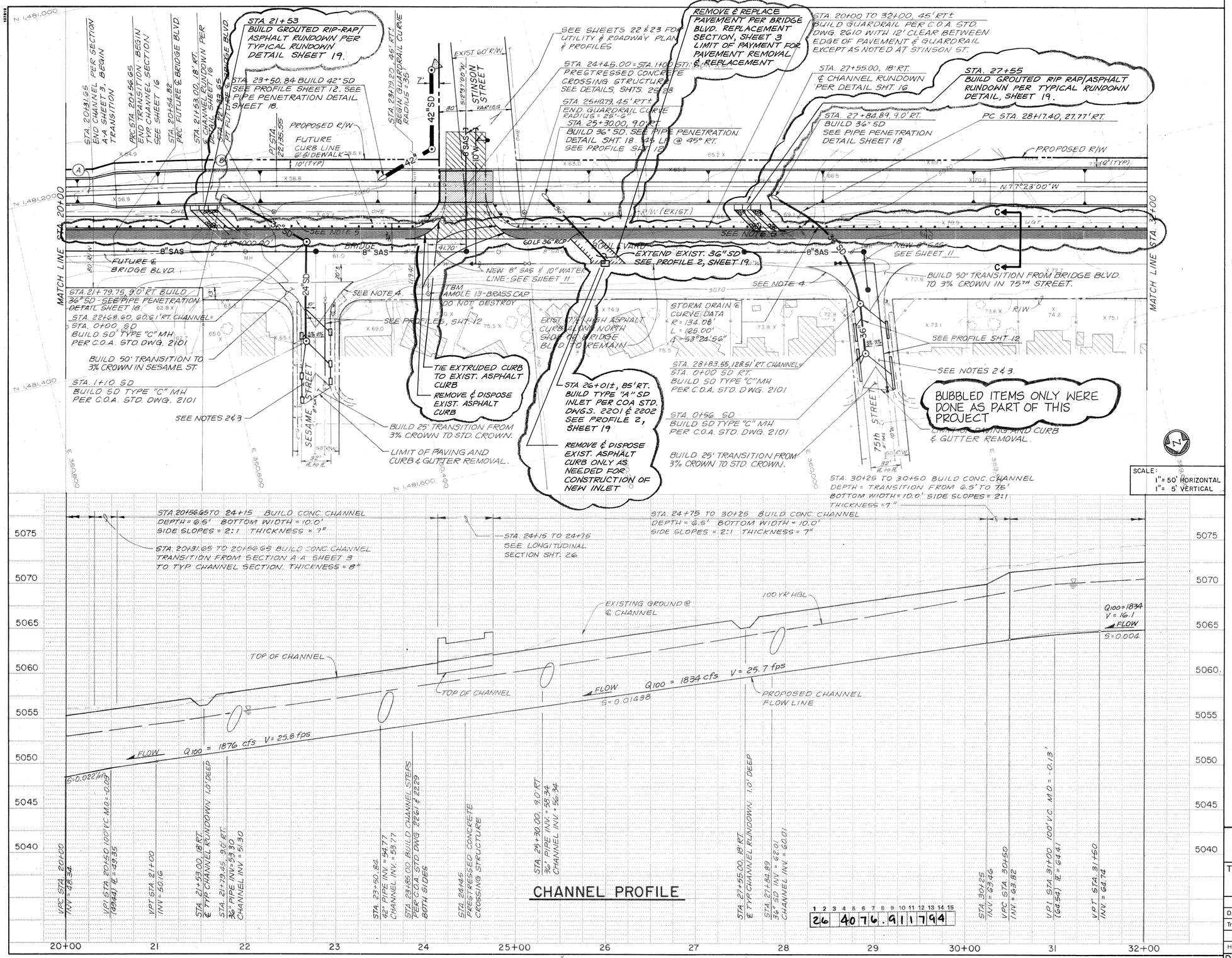
CHECKED BY MSH/JJB/LGJ — DATE 8/90 8/91

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: AMOLE DEL NORTE STORM DIVERSION FACILITIES - PHASE III
TIERRA BAYITA DRAINAGE FACILITIES
BRIDGE BOULEVARD - STA. 9+00 TO STA. 20+00
CHANNEL & STORM DRAIN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	B.J. Brodsky	3-30-94	Water	William Baker	3-25-94
Trans. Dev.	K. Brown	3-25-94	Wastewater	William Baker	3-25-94
Hydrology	C. Shen	3/23/94			

DRAWING NO. 4076.91 | MAP NO. L-10 | SHEET 16 OF 19



CHANNEL PROFILE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 40 76 . 91 17 94

SCALE:
1"= 50' HORIZONTAL
1"= 5' VERTICAL

CENTER LINE CURVE DATA:

A Δ = 02°33'45"
R = 4000.00'
L = 178.90'
T = 83.47'

B Δ = 02°33'45"
R = 4000.00'
L = 178.90'
T = 83.47'

NOTES:

1. CONTRACTOR TO CONTACT PNM AT LEAST THREE WORKING DAYS PRIOR TO EXCAVATING ADJACENT TO POWER POLES. CONTRACTOR SHALL COORDINATE WITH PNM IN SUPPORTING THESE POLES INCLUDING ANY PAYMENT REQUIRED BY PNM.
2. SESAME STREET & 75th STREET SHALL BE PAVED AS SHOWN IN C.O.A. STD. DWG. 2405 FOR RESIDENTIAL STREETS, ASPHALT CONCRETE PAVEMENT SECTION - USING A 3% PAVEMENT SLOPE INSTEAD OF 2%.
3. CURB & GUTTER SHALL BE REMOVED AS NECESSARY FOR CONSTRUCTION AND REPLACED WITH STANDARD CURB & GUTTER PER C.O.A. STD. DWG. 2415.
4. ASPHALT CURB EXISTS ALONG THE NORTH SIDE OF BRIDGE BLVD. AND SHALL BE REMOVED ONLY AS NECESSARY FOR CONSTRUCTION AND REPLACED WITH ASPHALT CURB PER C.O.A. STD. DWG. 2415.
5. THE AT&T FIBER OPTIC CABLE MUST BE COVERED AT NIGHT OR AT&T SHALL BE CONTACTED TO PROVIDE A GUARD.
6. ALL STATIONING IS ALONG CENTERLINE OF CHANNEL EXCEPT AT SESAME ST. & 75th ST.

RECORD DRAWINGS 4/6/94

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT AS-CONSTRUCTED CONDITIONS IN ACCORDANCE WITH INFORMATION FURNISHED BY THE CONTRACTOR (MCC, INC.) AND THE CITY OF ALBUQUERQUE, WHICH PERFORMED ON-SITE INSPECTION DURING CONSTRUCTION AND CONSTRUCTION SURVEYS.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1880	GREINER	6-7/90
1883	GREINER	7&9/90
1886	GREINER	12/90
1893	GREINER	12/90
1893	GREINER	1/91
1910	GREINER	9-10/91

BENCH MARKS

TBM AMOLE 13 - BRASS CAP SET IN THE NORTH SIDE OF BRIDGE BOULEVARD APPROXIMATELY 30' NORTH OF THE EDGE OF PAVEMENT AND APPROXIMATELY 125' WEST OF SESAME STREET. N = 1,481,394.909 E = 360,370.080 ELEV = 5072.054

TBM AMOLE 14 - BRASS CAP ON THE NORTHWESTERLY TURN ISLAND IN THE INTERSECTION OF NORTH/SOUTH COORS CONNECTION AND BRIDGE BOULEVARD. N = 1,481,037.480 E = 361,880.107 ELEV = 5035.731

AS BUILT INFORMATION

CONTRACTOR MCC, INC.

WORK STAKED BY COA DATE 7/94
CONSTRUCTION ACCEPTANCE BY COA DATE 7/94
FIELD INSPECTION BY COA DATE 7/94
DRAWINGS CORRECTED BY GREINER DATE 7/94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

ENGINEER'S SEAL
MARK S. HOLSTAD NEW MEXICO No. 7288 REGISTERED PROFESSIONAL ENGINEER
3-25-94

NO.	DATE	REMARKS	BY
1	2-94	CO#1	GREI

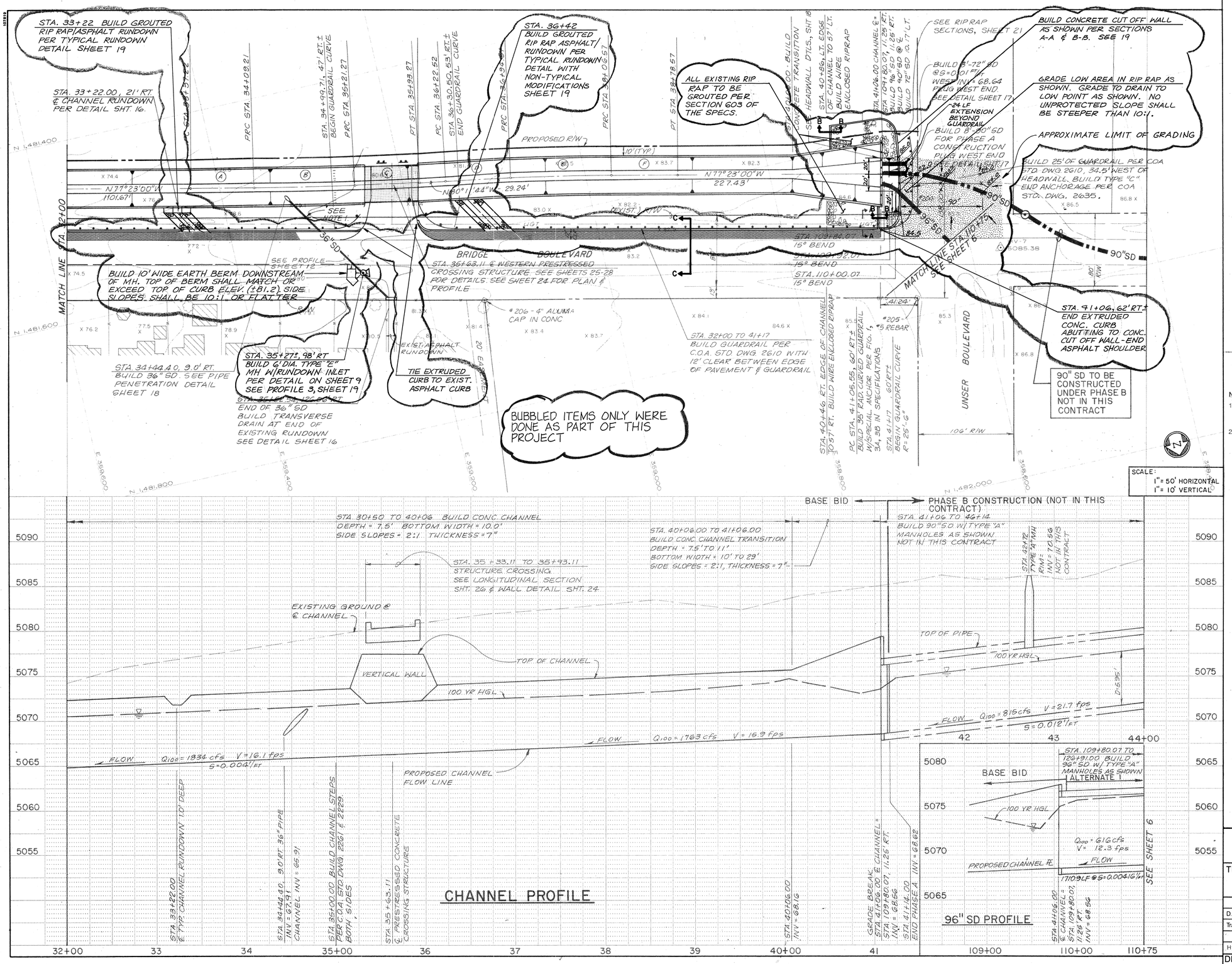
REVISIONS
DESIGN
DESIGNED BY MSH/SKD DATE 3/93
DRAWN BY YA HP2W DATE 8 91
CHECKED BY LGBU DATE 3/93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: AMOLE DEL NORTE STORM DIVERSION FACILITIES - PHASE III
TIERRA BAYITA DRAINAGE FACILITIES
BRIDGE BOULEVARD-STA. 20+00 TO STA. 32+00
CHANNEL & STORM DRAIN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	B.J. Goldberg	3-30-94	Water	William Baldi	3-25-94
Trans. Dev.	[illegible]	3-25-94	Wastewater	William Baldi	3-25-94
Hydrology	[illegible]	3/25/94			

DRAWING NO. 4076.91
MAP NO. L-10
SHEET 17 OF 19



NOTES:

1. THE AT&T FIBER OPTIC CABLE MUST BE COVERED AT NIGHT OR AT&T SHALL BE CONTACTED TO PROVIDE GUARD.
2. ALL STATIONING IS ALONG CENTERLINE OF CHANNEL

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1880	GREINER	6-7/90
1883	GREINER	7&9/90
1886	GREINER	12/90
1893	GREINER	12/90
1893	GREINER	1/91
1910	GREINER	9-10/91

AS BUILT INFORMATION

CONTRACTOR MCC, INC.

WORK PERFORMED BY COA DATE 1994

INSPECTIONS

ACCEPTANCE BY COA DATE 7/94

FIELD

FINAL APPLICATION BY COA DATE 7/94

DRAWINGS

CORRECTIONS & AS BUILT BY GREINER DATE 7/94

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

TBM-AMOLE 13 - BRASS CAP SET IN THE NORTH SIDE OF BRIDGE BOULEVARD APPROXIMATELY 30' NORTH OF THE EDGE OF PAVEMENT AND APPROXIMATELY 125' WEST OF SESAME STREET. N = 1,481,394.909 E = 360,370.080 ELEV = 5072.054

TBM-AMOLE 14 - BRASS CAP ON THE NORTHWESTERLY TURN ISLAND IN THE INTERSECTION OF NORTH/SOUTH COORS CONNECTION AND BRIDGE BOULEVARD. N = 1,481,037.480 E = 361,880.107 ELEV = 5035.731

ENGINEER'S SEAL

MARK S. HOLSTAD NEW MEXICO No. 7238 REGISTERED PROFESSIONAL ENGINEER

2-4-94

NO.	DATE	REMARKS	BY
1	2-94	CO #1 RUNDOWNS/HEADWALL REVISIONS	GREI
CO#1	1-94	REVISIONS	GREI

DESIGN

DESIGNED BY SKT DATE 10-90

DRAWN BY AH DATE 10-90

CHECKED BY LSJ DATE 8-91

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

2 1 6 4 0 7 6 . 9 1 1 8 9 4

RECORD DRAWINGS 9/7/94

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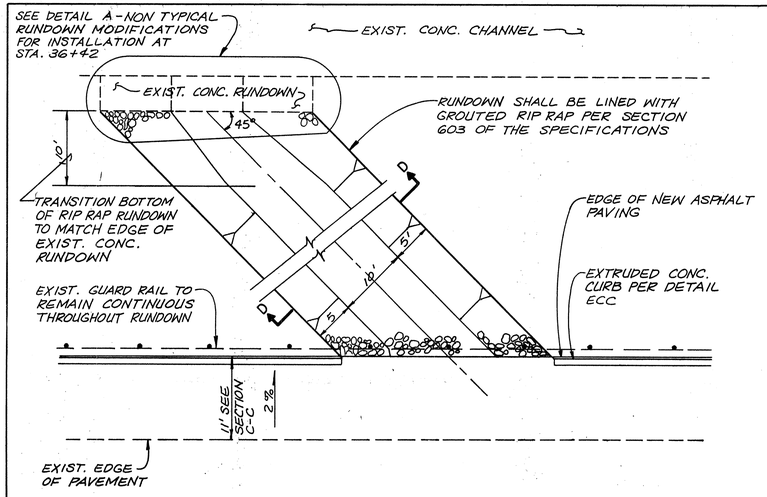
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: AMOLE DEL NORTE STORM DIVERSION FACILITIES - PHASE III
TIERRA BAYITA DRAINAGE FACILITIES
BRIDGE BOULEVARD - STA 32+00 TO STA. 41+06
CHANNEL & STORM DRAIN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	B.G. Goodaby	3-30-94	Water	William Brakh	3-25-94
Trans. Dev.	R. Venn	3-25-94	Wastewater	William Brakh	3-25-94
Hydrology	R. Orrin	3/23/94			

DRAWING NO. 4076.91 MAP NO. L-10 SHEET 18 OF 19

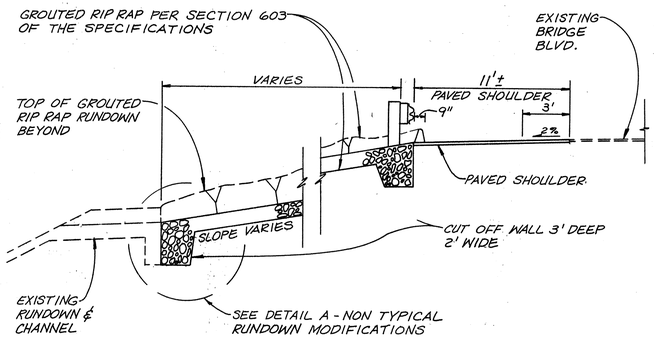


BRIDGE BLVD.

SEE TYPICAL PROFILE I BELOW

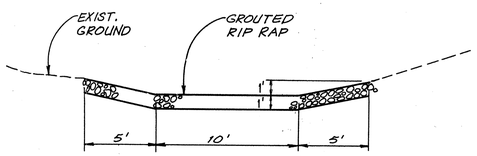
TYPICAL RUNDOWN PLAN

SCALE: 1"=10'



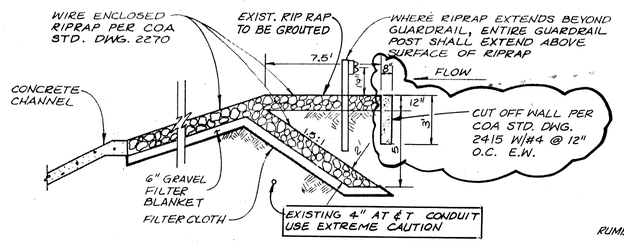
TYPICAL RUNDOWN PROFILE I

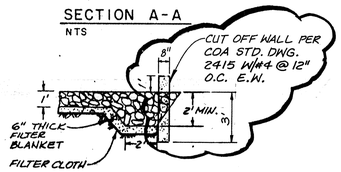
SCALE: 1"=5'



SECTION D-D

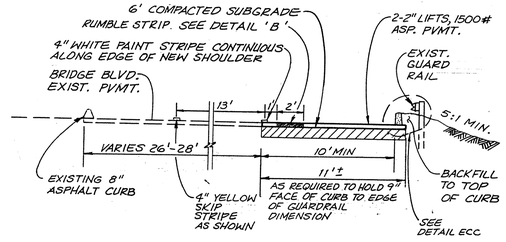
SCALE: 1"=5'





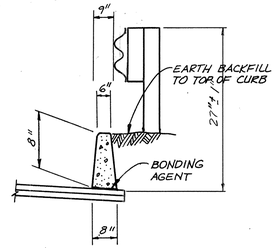
SECTION B-B

NTS



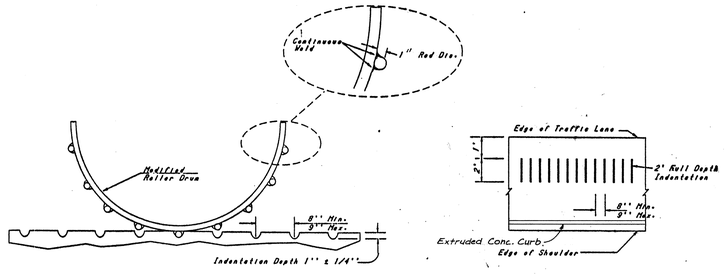
SECTION C-C

NTS



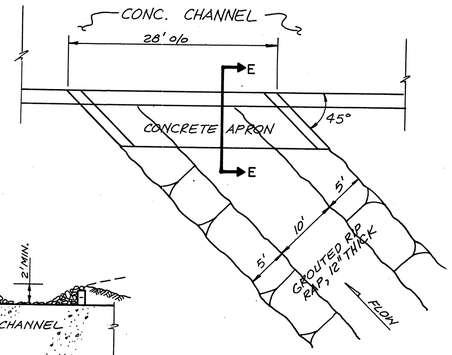
EXTRUDED CONC. CURB DETAIL ECC

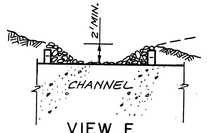
NTS



RUMBLE STRIP DEPTH AND PATTERN DETAIL

N.T.S. DETAIL B

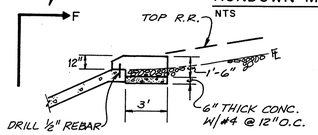




VIEW F

DETAIL A - NON TYPICAL RUNDOWN MODIFICATIONS

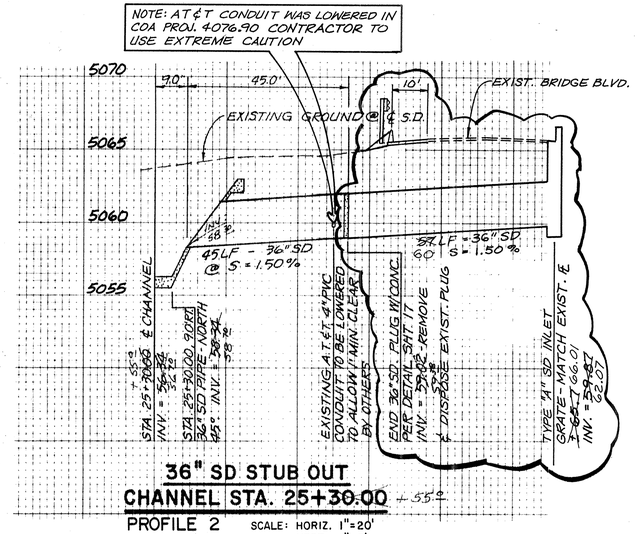
NTS



SECTION E-E

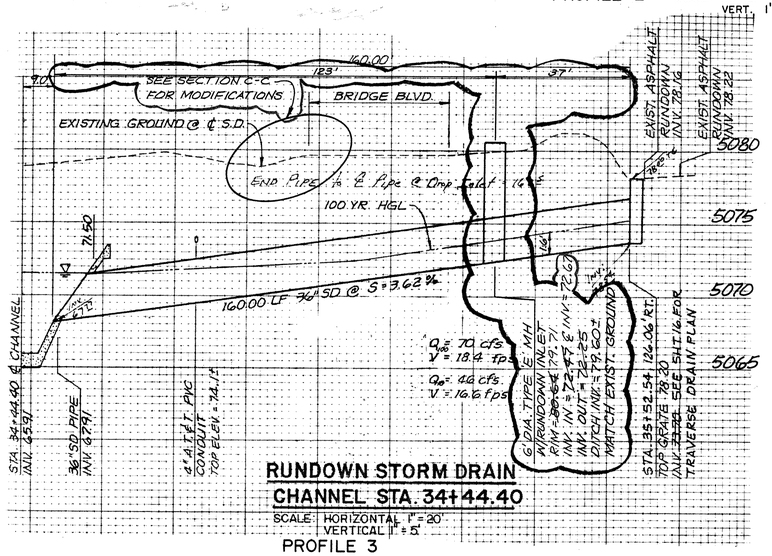
NTS

BUBBLED ITEMS ONLY WERE DONE AS PART OF THIS PROJECT



36" SD STUB OUT CHANNEL STA. 25+30.00 + 55.0

PROFILE 2 SCALE: HORIZ. 1"=20' VERT. 1"=5'



RUNDOWN STORM DRAIN CHANNEL STA. 34+44.40

SCALE: HORIZONTAL 1"=20' VERTICAL 1"=5'

PROFILE 3

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

26 4076.91 1994

RECORD DRAWINGS

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT AS-CONSTRUCTED CONDITIONS IN ACCORDANCE WITH INFORMATION FURNISHED BY THE CONTRACTOR (MCC, INC.) AND THE CITY OF ALBUQUERQUE, WHICH PERFORMED ON-SITE INSPECTION DURING CONSTRUCTION AND CONSTRUCTION SURVEYS. 9/7/94

Greiner, Inc.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: AMOLE DEL NORTE STORM DIVERSION FACILITIES – PH. IIIB

DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chairman	B.A. Goldsby	3-30-94	Water	William Brolach	3-25-94
Transportation	[illegible]	3-25-94	Waste Water	William Brolach	3-25-94
Hydrology	[illegible]	3/23/94			

PROJECT NO. 4076.91 | MAP NO. L-10 | SHEET 19 OF 19

AS BUILT INFORMATION
CONTRACTOR MCC, INC. DATE 1994
STAKED BY COA DATE 7/94
INSPECTOR'S FIELD CHANGES BY COA DATE 7/94
FIELD VERIFICATION BY COA DATE 7/94
MARKINGS CORRECTED BY GREINER DATE 7/94
MICRO-FILM INFORMATION
RECORDED BY DATE

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

MARK S. HOLSAPPLE NEW MEXICO NO. 9078 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY	DATE
1	2-94	CO#1	GREI	
		REVISIONS		
		DESIGN		DATE 1/94
			DESIGNED BY: SKJ	DATE 1/94
			DRAWN BY: JAK	DATE 1/94
			CHECKED BY: MSH	PROJECT NO. ED12900

G0110001