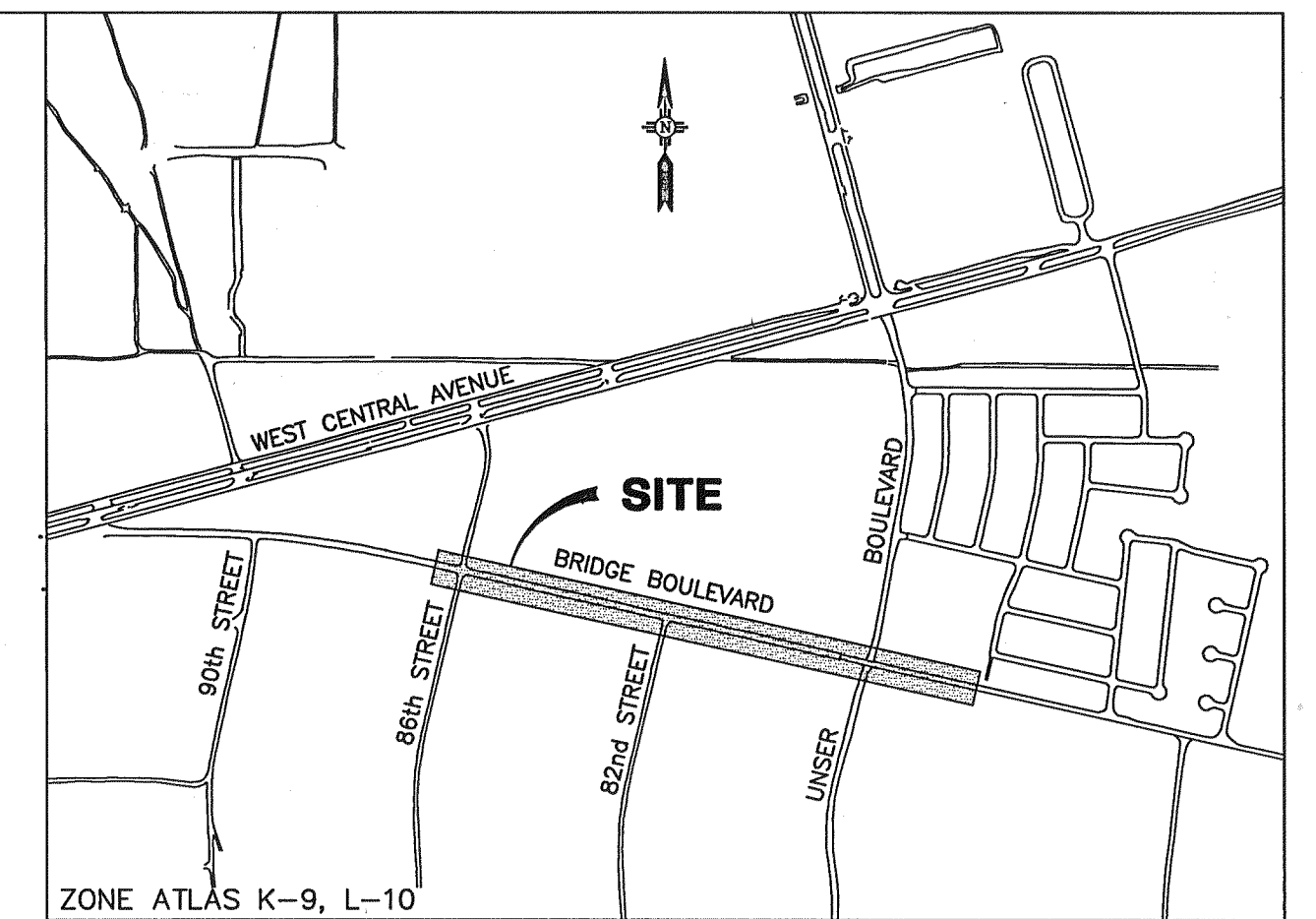


AMOLE DEL NORTE
STORM DIVERSION FACILITIES
TIERRA BAYITA DRAINAGE FACILITIES

CITY OF ALBUQUERQUE - PUBLIC WORKS DEPARTMENT

INDEX TO DRAWINGS



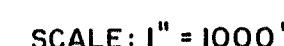
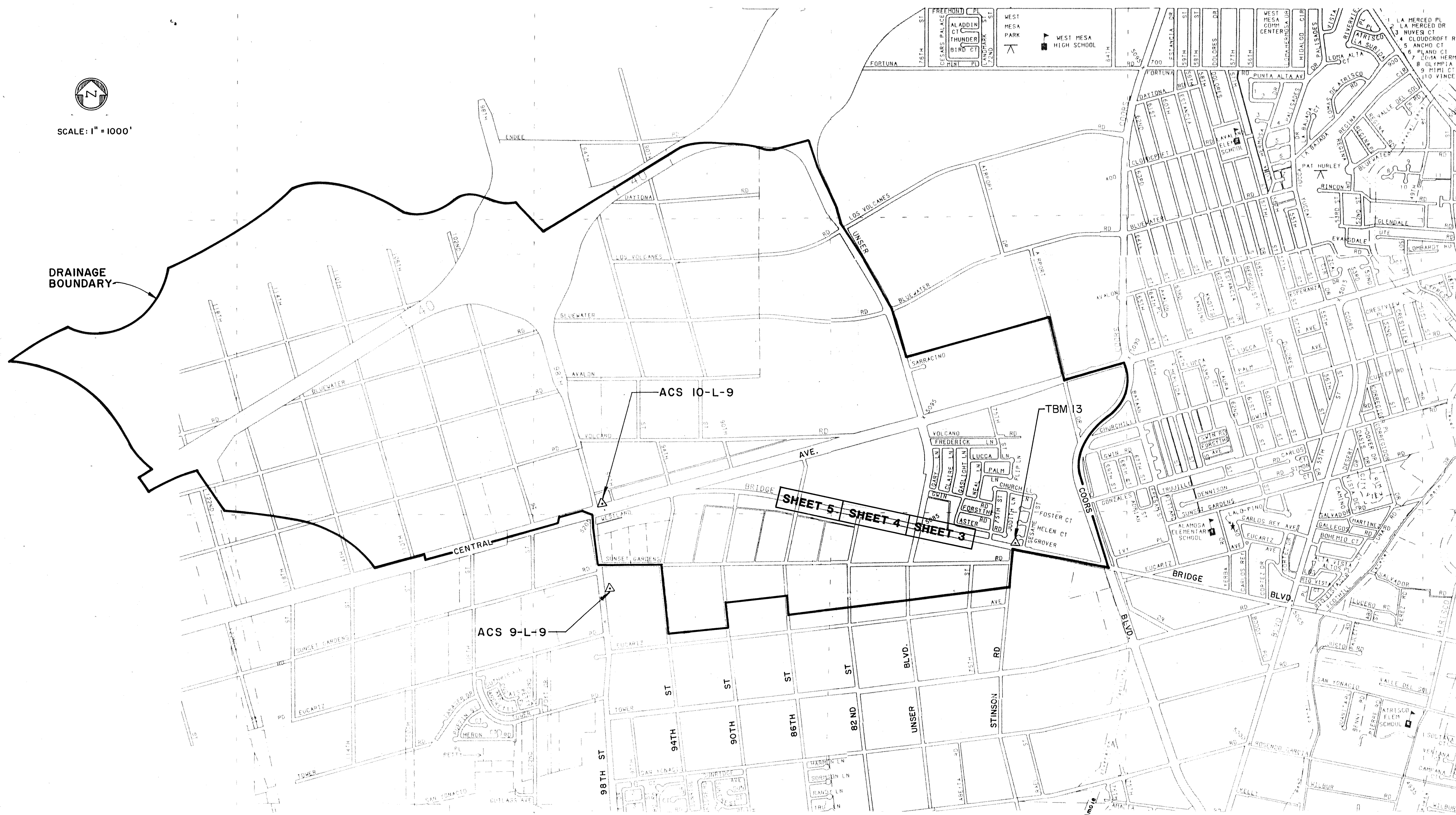
1. ALL WORK DETAILED ON THIS PROJECT SHALL BE DONE IN ACCORDANCE WITH "CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", 1986, INCLUDING AMENDMENT NO. 6, AND ANY REVISIONS AND ADDITIONS IN THE SUPPLEMENTAL SPECIFICATIONS IN THE CONTRACT DOCUMENTS.
2. ALL EXISTING UTILITIES SHOWN 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.
3. 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.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
5. 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.
6. REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK SHALL BE TO THE NEAREST JOINT OR SAW CUT.
7. 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.
8. 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.
9. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
10. ACCESS TO LOCAL BUSINESS AND RESIDENCES SHALL BE KEPT OPEN AT ALL TIMES. TEMPORARY ACCESS CLOSURES, IF REQUIRED, SHALL BE SCHEDULED AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE WITH PROPERTY OWNER AND APPROVED BY THE PROJECT MANAGER.
11. TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
12. REMOVALS SHALL BE DISPOSED OF OFF-SITE AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
13. 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.
14. DELETED

1	TITLE SHEET
2	OVERALL LAYOUT SHEET & LEGEND
3	BRIDGE BLVD. STA. 41+36 TO 44+21 STORM DRAIN
4	BRIDGE BLVD. STA. 44+21 TO 56+21 STORM DRAIN
5	BRIDGE BLVD. STA. 56+21 TO 64+52 STORM DRAIN
6	MISCELLANEOUS PROFILES
7	MISCELLANEOUS DETAILS
8	SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS
9	TYPICAL TRAFFIC CONTROL AND SIGNING EXAMPLES
10	DETOUR PLAN PHASE 1 AND 2
11	DETOUR PLAN PHASE 3

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

9-16-98

A	3				BKX			3-27-98						
REV.	SHEETS	CITY ENGINEER	DATE	ENGINEER DEPARTMENT						DATE	ENGINEER DEPARTMENT DATE			
ENGINEER'S STAMP & SIGNATURE				APPROVALS		ENGINEER		DATE	*****					
				DRC Chairman	Billy G. Hooley		3/26/98	APPROVED FOR CONSTRUCTION						
				Transportation	Steve Boring		3/25/98							
				Water/Wastewater	Veg D. Lee		3/10/98							
				Hydrology	Steve Boring		3/11/98							
				Parks										
				Constr. Mngmt.	Ron Jones		03/11/98							
				Constr. Coord.	John Lutz		3-20-98							
City Project No.				4076.93		Sheet Of 1 11								

DRAINAGE
BOUNDARY

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

BRASS CAP SET IN THE NORTH SIDE OF
BRIDGE BLVD. 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

PROJECT LEGEND

DESCRIPTION	EXISTING	NEW
RIGHT-OF-WAY LINE	---	---
CONTOUR		---
SPOT ELEVATION	X 89.5	
CONTROL POINT		
GUARD RAIL		
BUILDING		
SIGN	• S	
POWER POLE		
LIGHT POLE		
TRAFFIC LIGHT	TL	
FIRE HYDRANT		
TELEPHONE RISER		
FENCE	-X-X-	-o-o-
WALL	-W-W-	
WATER METER		
WATER VALVE		
SANITARY MANHOLE		
STORM DRAIN MANHOLE		
TELEPHONE MANHOLE		
SANITARY SEWER LINE	—SAS—	—SAS—
WATER LINE	—W—	—W—
STORM DRAIN LINE	—SD—	—SD—
GAS LINE	—G—	
CABLE TV LINE	—CATV—	
OVERHEAD ELECTRIC LINE	—OHE—	
UNDERGROUND TELEPHONE	—UGT—	
CONCRETE CHANNEL		

RECORD DRAWINGS

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MA816
9-16-98

URS Greiner

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

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SHEET LAYOUT & LEGEND

Design Review Committee		City Engineer Approval		Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
A P P R O V E D MAR 2 6 1998 DESIGN REVIEW COMMITTEE		A P P R O V E D MAR 2 6 1963 CITY ENGINEER				

City Project No.	4076.93	Zone Map No.	K-9, L-10	Sheet	2	Of	11
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COA INSPECTOR: BILL MCCALL

BENCH MARKS

SURVEY INFORMATION

ENGINEER'S SEAL

ACCEPTANCE BY <u>YK. MINCH/10/1</u> DATE <u>5/17/98</u>	
FIELD VERIFICATION BY <u>COA/10/10/98</u> DATE <u>1/99</u>	
DRAWINGS CORRECTED BY <u>MRS GREINER</u> DATE <u>8/98</u>	
MICRO-FILM INFORMATION	
RECORDED BY _____	DATE _____

INTERSECTION OF 98TH STREET AND CENTRAL AVENUE.
CURB ON THE NORTHEAST CORNER OF THE ISLAND IN THE
N N = 1,482,085.203 E = 352,792.376
ELEV = 5204.425

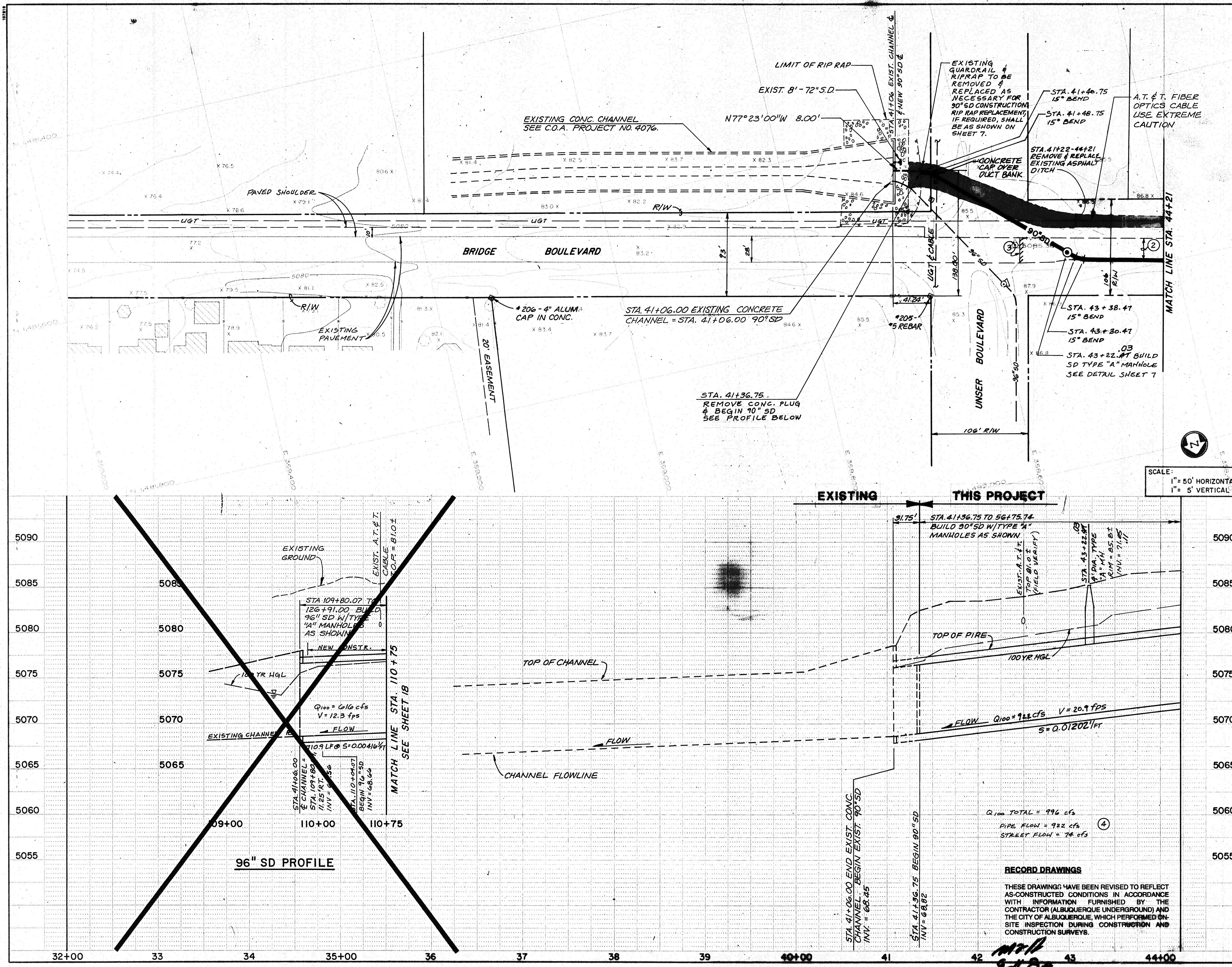
1880	GREINER	6-11/90
1883	GREINER	7&9/90
1886	GREINER	12/90
1893	GREINER	12/90
1893	GREINER	1/91
1910	GREINER	9-10/91
1910	LIPS GREINER	10/11/97

3/4/98
REGISTERED PROFESSIONAL ENGINEER
No. 7288
[Signature]

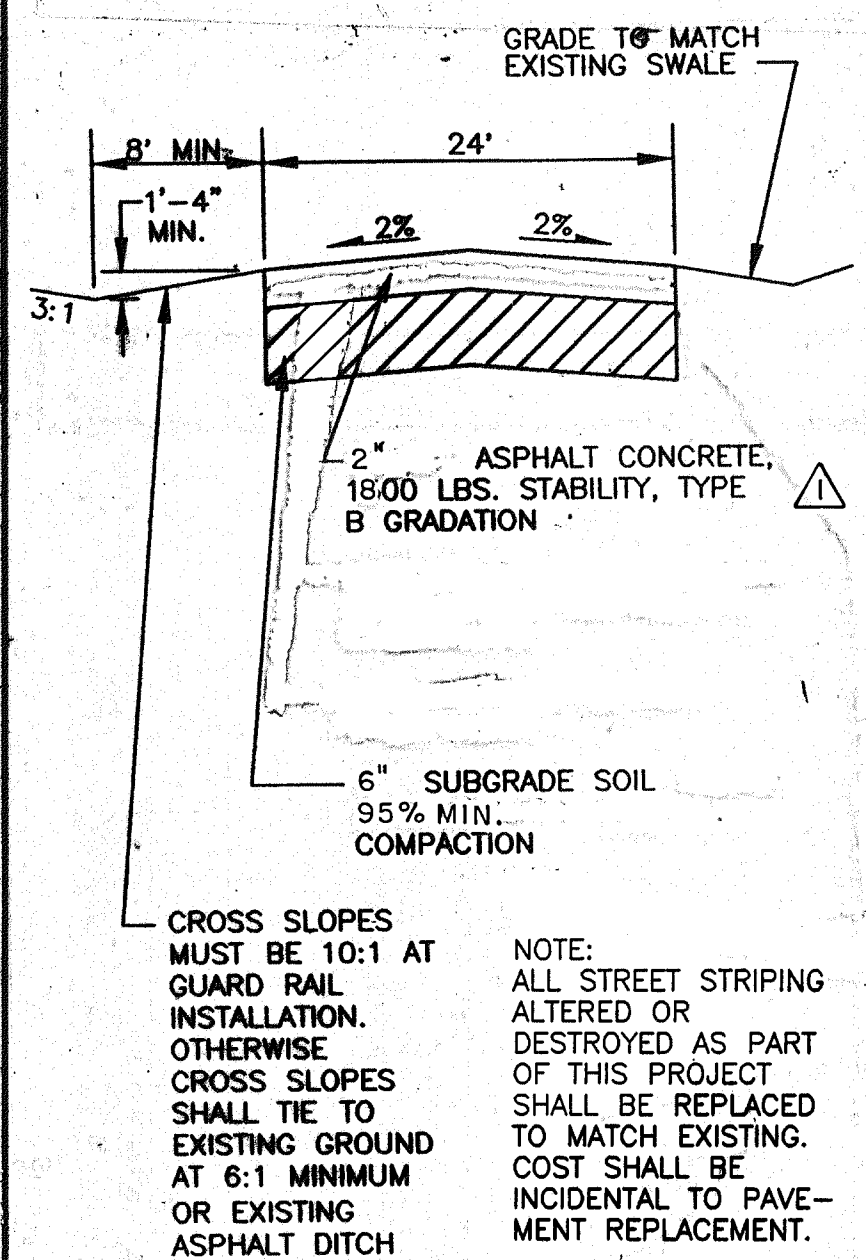
NO.	DATE	REMARKS	BY
REVISIONS			
DESIGN			
DESIGNED BY: SKJ		DATE: 12/97	
DRAWN BY: LAH, KM		DATE: 12/97	
CHECKED BY: MSH, JCI		DATE: 2/08	

1975
IBS CBEINER PROJECT NO E7000001 15

2001



- KEYED NOTES**
- AT GUARDRAIL LOCATIONS OVER A.T. & T. FIBER OPTICS CABLE, CONTRACTOR SHALL EITHER:
A) HAND DIG ALL POSTS.
B) HAND DIG A.T. & T. CABLE TO LOCATE, THEN ADJUST GUARDRAIL LOCATION SLIGHTLY (5' HORIZ. MAX.) TO MISS CABLE.
 - EXISTING ROAD CONSISTS OF MILLINGS PLACED OVER GRADED DIRT ROAD. WIDTH VARIES 21' TO 24'. REMOVE AND REPLACE PER PAVEMENT SECTION THIS SHEET. USE 8' TAPER TO TRANSITION FROM EXISTING BRIDGE BLVD. PAVEMENT TO NEW ROAD SECTION.
 - STA. 42+60, LIMIT OF PAVEMENT REPLACEMENT. SAWCUT EXISTING ASPHALT.
 - STREET FLOWS IN BRIDGE BLVD. ARE BASED ON ULTIMATE(DEVELOPED) FLOW RATES AND A FUTURE MINIMUM 48' F-F COLLECTOR STREET.
- NOTES**
- THE A.T. & T. FIBER OPTIC CABLE MUST BE COVERED AT NIGHT OR A.T. & T. SHALL BE CONTACTED TO PROVIDE A GUARD.
 - ALL STATIONING IS ALONG CENTERLINE OF 90" SD.



BRIDGE BOULEVARD REPLACEMENT SECTION
NTS

URS Greiner
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(505) 345-3999

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

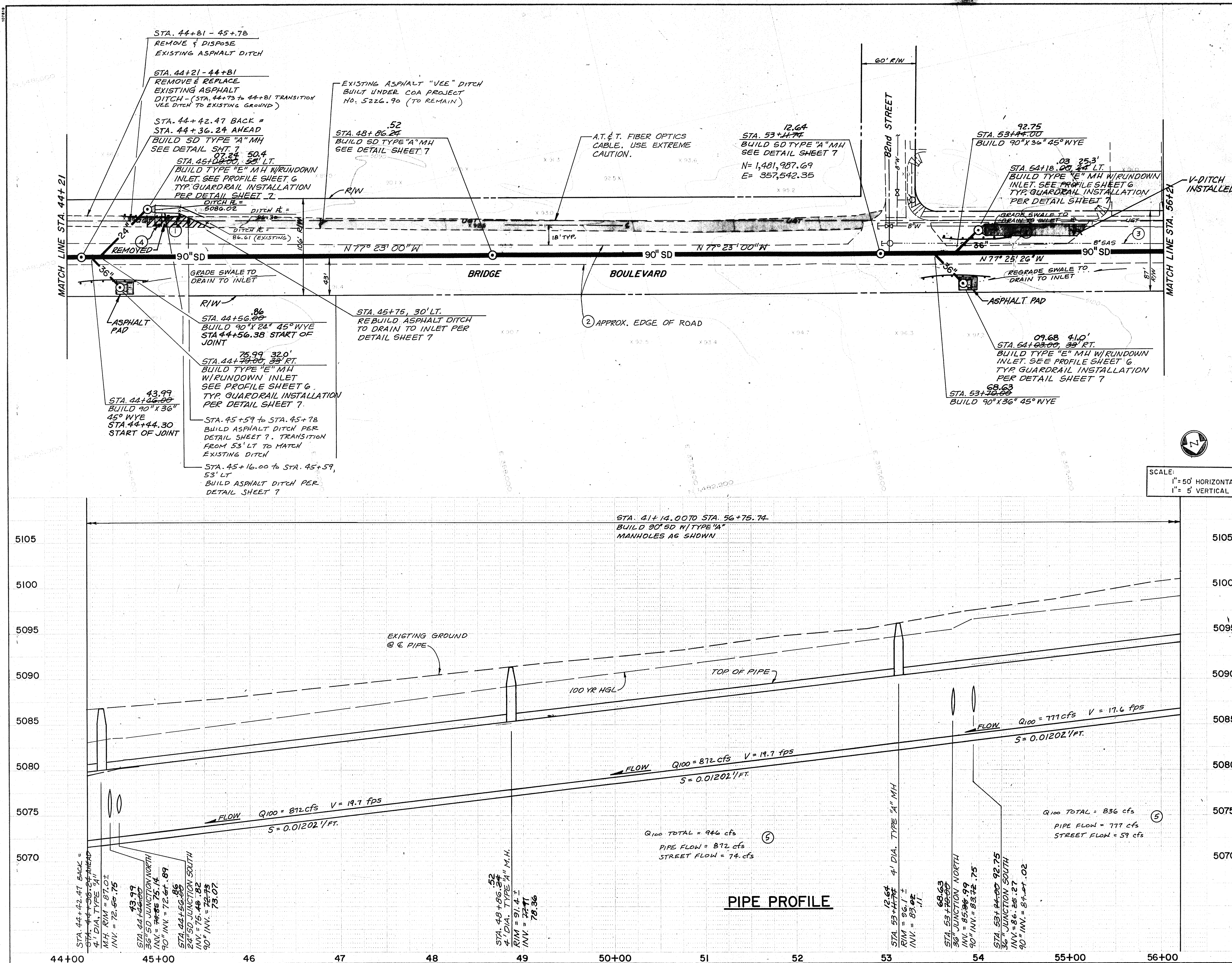
**TITLE: AMOLE DEL NORTE STORM DRAINAGE FACILITIES - PHASE III
TERRA BATTA DRAINAGE FACILITIES**

BRIDGE BOULEVARD STA. 41+36 TO STA. 44+21 STORM DRAIN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED MAR 26 1998 DESIGN REVIEW COMMITTEE	APPROVED MAR 26 1998 CITY ENGINEER		

City Project No. **4076.93** Zone Map No. **K-9, L-10** Sheet **3** Of **11**

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN	
CONTRACTOR	DATE	NO.	BY	NO.	BY	NO.	BY	NO.	DATE	NO.	DATE
ALB. UNDERGROUND	7/98	1880	GREINER	1880	GREINER	3/27/98	REVIS	3/27/98	12/97	SKJ	12/97
CONTRACTOR	7/98	1881	GREINER	1881	GREINER	3/27/98	REVIS	3/27/98	12/97	LAH, KM	12/97
STAKED BY	7/98	1882	GREINER	1882	GREINER	3/27/98	REVIS	3/27/98	12/97	MSJ, LJSJ	12/97
FIELD NOTES	7/98	1883	GREINER	1883	GREINER	3/27/98	REVIS	3/27/98	12/97		
DESIGNED BY	7/98	1884	GREINER	1884	GREINER	3/27/98	REVIS	3/27/98	12/97		
CHECKED BY	7/98	1885	GREINER	1885	GREINER	3/27/98	REVIS	3/27/98	12/97		
RECORDED BY	7/98	1886	GREINER	1886	GREINER	3/27/98	REVIS	3/27/98	12/97		
DATE	7/98	1887	GREINER	1887	GREINER	3/27/98	REVIS	3/27/98	12/97		



KEYED NOTES

- AT GUARDRAIL LOCATIONS OVER A.T. & T. FIBER OPTICS CABLE, CONTRACTOR SHALL EITHER:
 - HAND DIG ALL POSTS.
 - HAND DIG A.T. & T. CABLE TO LOCATION, THEN ADJUST GUARDRAIL LOCATION SLIGHTLY (5' HORIZ. MAX.) TO MISS CABLE.
- EXISTING ROAD CONSISTS OF MILLINGS PLACED OVER GRADED DIRT ROAD. WIDTH VARIES 21' TO 24'. REMOVE AND REPLACE PER PAVEMENT SECTION ON SHEET 3. MATCH EXISTING LOCATION.
- FUTURE SAS LINE SHOWN FOR INFORMATION ONLY. PRIOR TO CONSTRUCTION OF SAS, CONFLICT AND COMPATIBILITY WITH OTHER EXISTING OR PLANNED SERVICES SHOULD BE VERIFIED.
- 8' ASPHALT TRANSITION FROM RUNDOWN INLET TO TYPICAL ASPHALT DITCH (PER DETAIL SHEET 7).
- STREET FLOWS IN BRIDGE BLVD. ARE BASED ON ULTIMATE(DEVELOPED) FLOW RATES AND A FUTURE MINIMUM 48' F-F COLLECTOR STREET.

NOTES

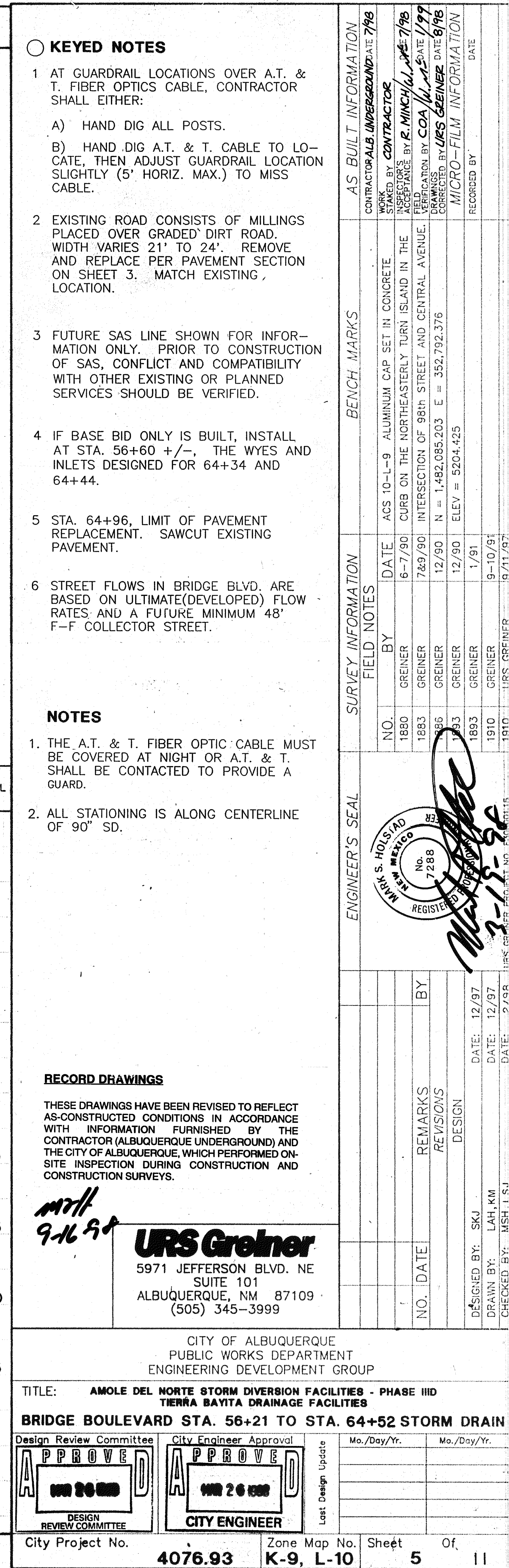
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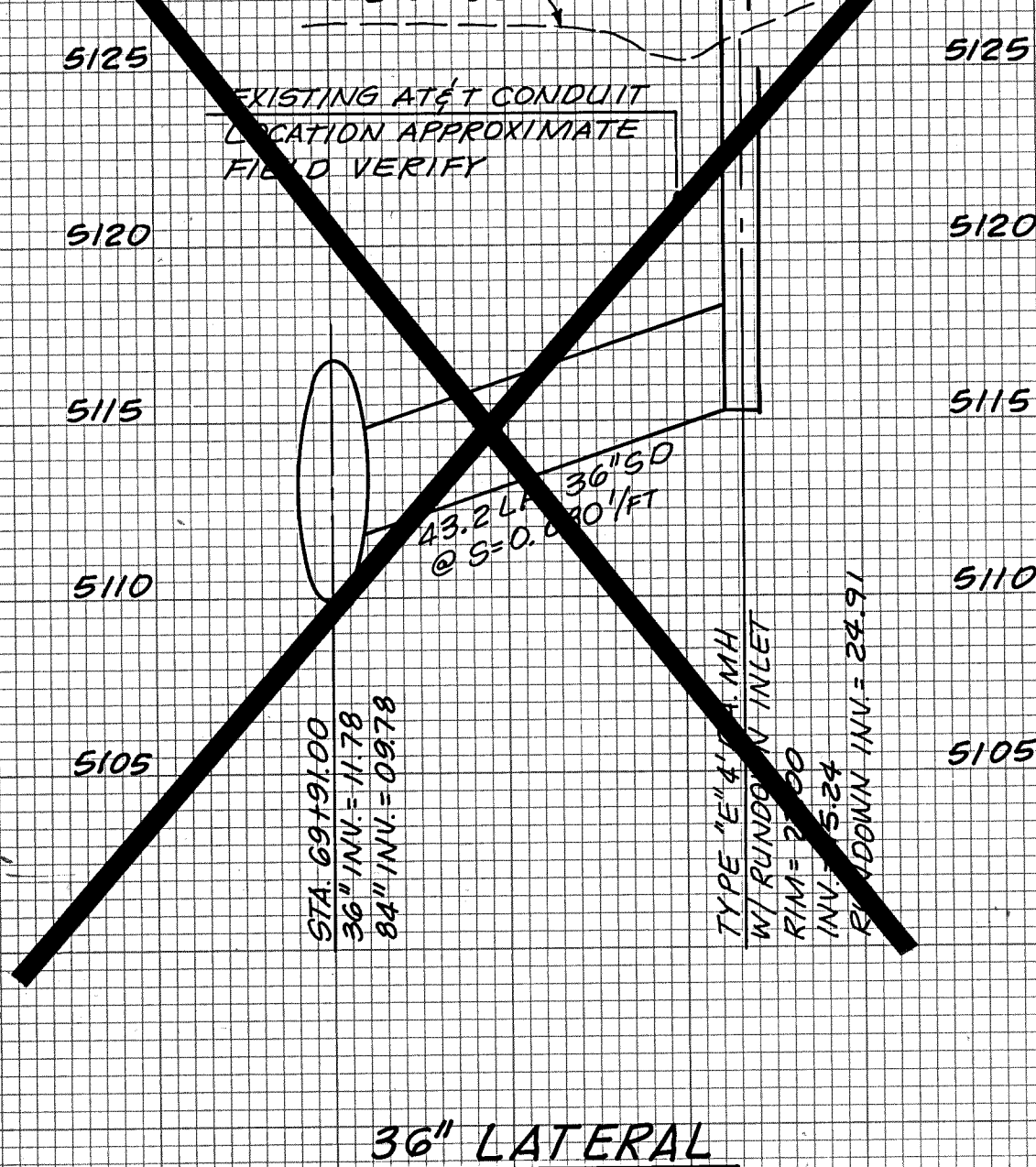
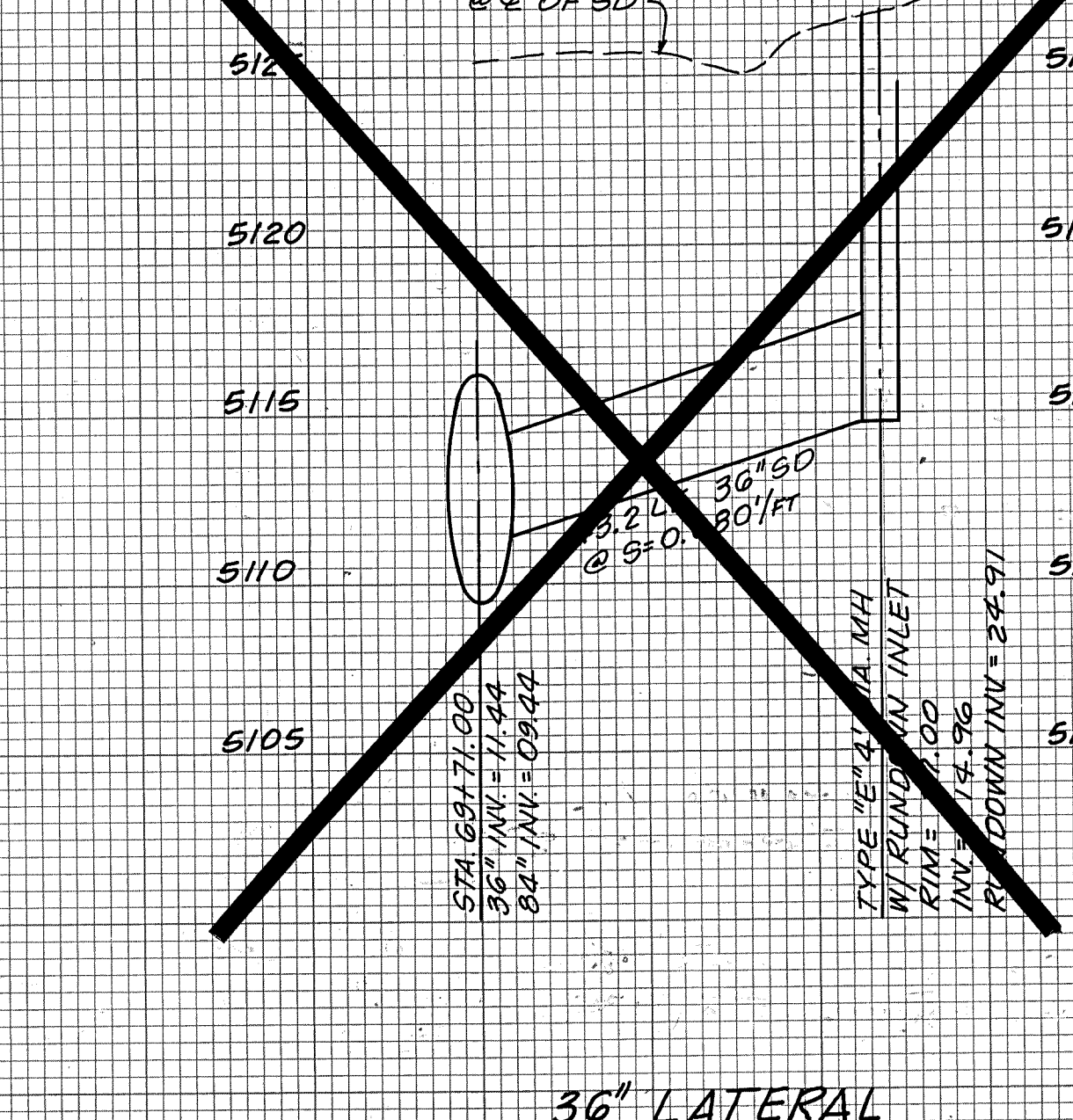
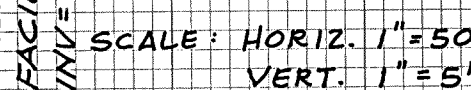
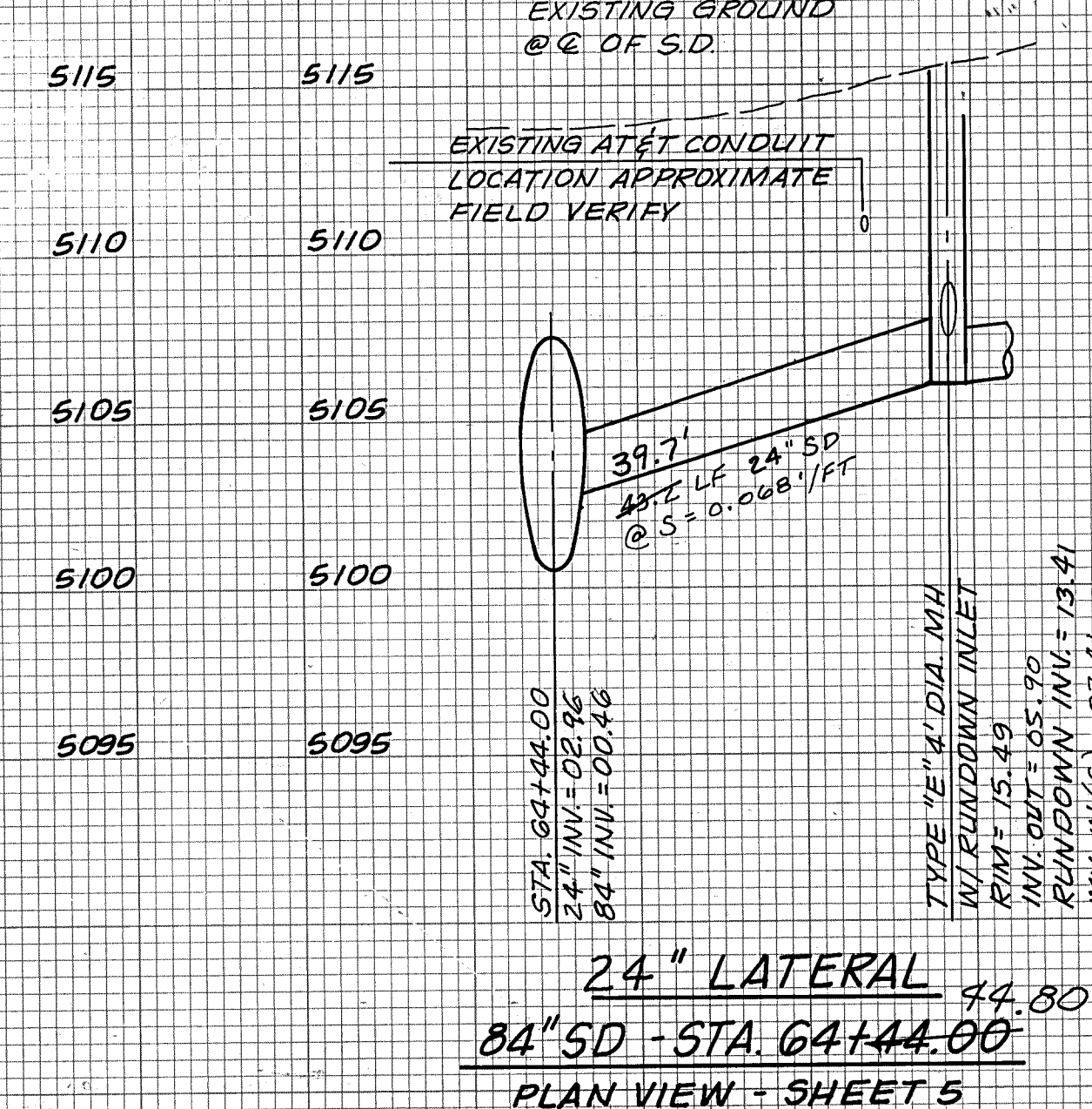
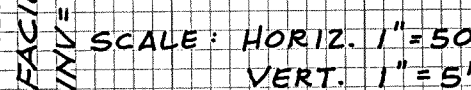
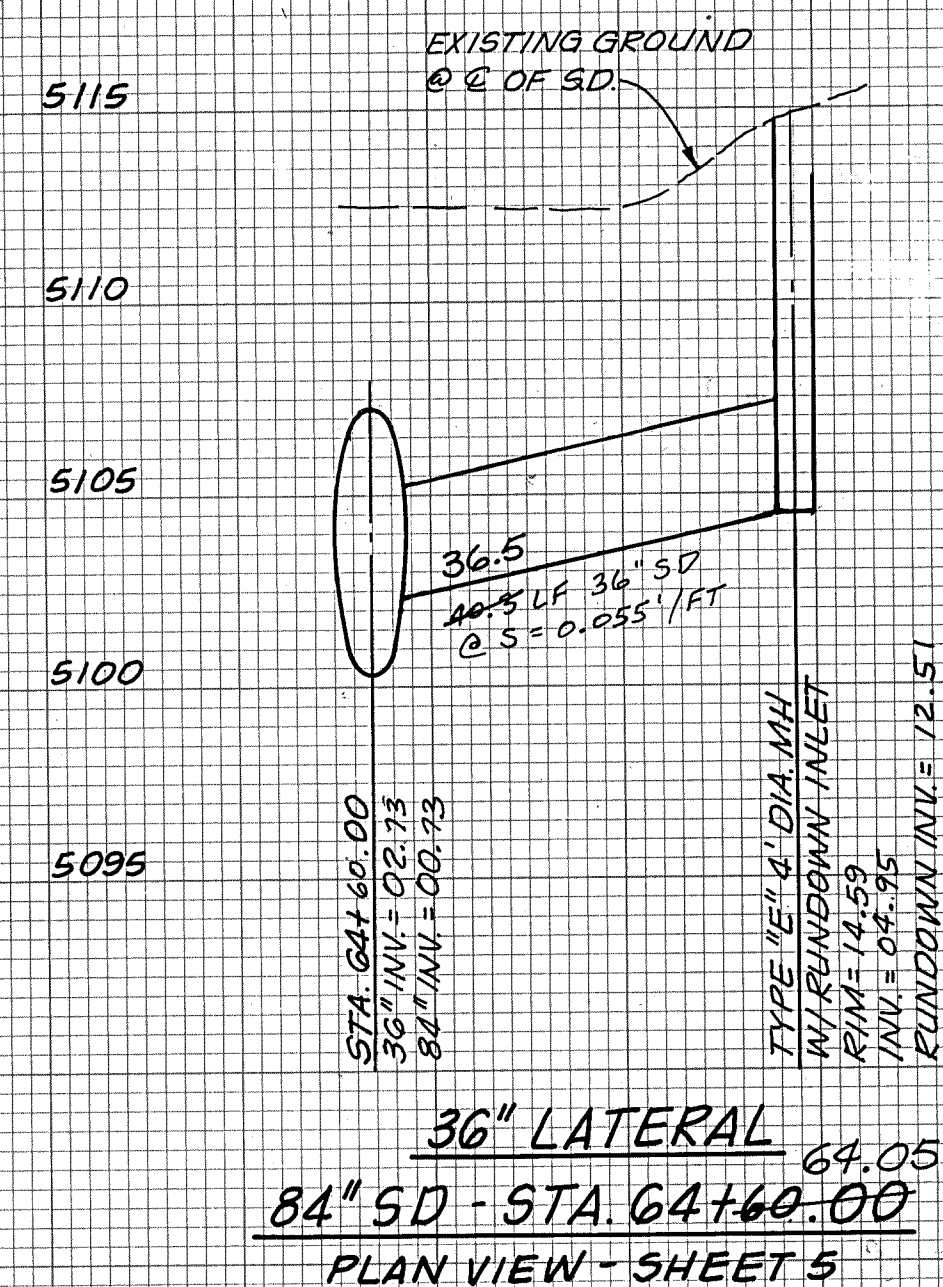
URS Greiner
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(505) 345-3999

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: AMOLE DEL NORTE STORM DIVERSION FACILITIES - PHASE III TIERRA BATTA DRAINAGE FACILITIES	
BRIDGE BOULEVARD STA. 44+21 TO STA. 56+21 STORM DRAIN	
Design Review Committee	City Engineer Approval
APPROVE MAR 26 1993 DESIGN REVIEW COMMITTEE	APPROVE MAR 26 1993 CITY ENGINEER
City Project No. 4076.93	Zone Map No. K-9, L-10
Sheet 4	Of 11



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP																	
TITLE: AMOLE DEL NORTE STORM DIVERSION FACILITIES - PHASE IIID TIERRA BATITA DRAINAGE FACILITIES																	
BRIDGE BOULEVARD STA. 56+21 TO STA. 64+52 STORM DRAIN																	
Design Review Committee APPROVED DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED CITY ENGINEER	Last Design Update	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; padding: 5px;">Mo./Day/Yr.</th> <th style="width: 50%; padding: 5px;">Mo./Day/Yr.</th> </tr> <tr><td style="height: 30px;"></td><td></td></tr> <tr><td style="height: 30px;"></td><td></td></tr> <tr><td style="height: 30px;"></td><td></td></tr> <tr><td style="height: 30px;"></td><td></td></tr> <tr><td style="height: 30px;"></td><td></td></tr> <tr><td style="height: 30px;"></td><td></td></tr> </table>	Mo./Day/Yr.	Mo./Day/Yr.												
Mo./Day/Yr.	Mo./Day/Yr.																
City Project No. 4076.93		Zone Map No. K-9, L-10	Sheet 5 Of 11														

ORIGINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
	TEMPLATE		
NOTE BOOK	AREAS		



Design Review Committee APPROVED MAR 26 1998 DESIGN REVIEW COMMITTEE		City Engineer Approval APPROVED CITY ENGINEER		Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 4076.93		Zone Map No. K-9, L-10		Sheet 6	Of 11	

ENGINEER'S SEAL				SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
MARK S. HOLSTAD MEXICO No. 7288 REGISTERED PROFESSIONAL ENGINEER 				FIELD NOTES		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 = 1,492,085.203 E = 352,792.376 ELEV = 5204.425		CONTRACTOR: A.B. UNDERGRUNN DATE: 7/98 DESIGNED BY: <i>CONTRACTOR</i> DRAWN BY: <i>E. MINICHILL</i> DATE: 7/98 CHECKED BY: <i>COA</i> DATE: 1/99 CORRECTED BY: <i>URS GREENEDGE</i> DATE: 6/98 MICRO-FILM INFORMATION RECORDED BY: _____ DATE: _____	
				NO.	BY				
				REMARKS					
				REVISIONS					
				DESIGN					
DESIGNED BY: SKJ	DATE: 12/97								
DRAWN BY: LAH, KM	DATE: 12/97								
CHECKED BY: MSH, L.S.J.	DATE: 2/98								
URS GREENEDGE PROJECT NO. E30000115									

Technical drawing of a manhole structure showing a cross-section. The drawing includes the following labels and dimensions:

- Top Dimensions:**
 - 5'-2 1/2"
 - 10' EARTH TRANSITION FROM DITCH BOTTOM TO FIT INLET OPENING
- Left Side Labels:**
 - CAST IN PLACE SLAB AND WALL
 - MH I.D.
 - MH (I.D. PER PLANS)
- Reinforcement Details:**
 - #4 "a" REBAR @ 6" O.C. BOTH SIDES
 - #4 "c" REBAR @ 6" O.C.
 - #4 "b" REBAR @ 6" O.C.
- Right Side Label:**
 - VARIES WITH LOCATION
- Bottom Labels:**
 - 12" 12" 12"
 - 3 #4 "b" REBAR
- Other Labels:**
 - 10' @ 4" DIA. M.H.

Diagram illustrating the assembly of a manhole structure. The components shown are:

- CONCRETE PAD (5'-0" SQUARE PER C.O.A. STD. DWG. 2101)
- STANDARD MANHOLE FRAME & COVER
- CONC. CRADLE
- PIPE
- CONE

Dimensions for the riser are provided:

- 6'-0" FOR 4' RISER
- 8'-0" FOR 6' RISER
- 10'-0" FOR 8' RISER

A note indicates a minimum dimension of 3" MIN. for the concrete pad.

Diagram illustrating the cross-section of a manhole assembly, showing the following components and dimensions:

- MH BARREL & TOP PER DWG. 2101. OR SLAB TOP INLET DETAIL, THIS SHEET 4' I.D., TYP.
- 5" WALL TYP.
- MANHOLE STEPS PER SPEC. 920.4.7
- PREFABRICATED R.C.P. TEE
- CONC. CRADLE 4000 P.S.I. CONCRETE
- 2'-6" MAX.
- PIPE DIA. VARIES (SEE PLANS)
- LADDER RUNGS @ 12" TO 16" O.C.
- 3" MIN.

VENTED COVER
(PER C.O.A. STD. DWG. 2110) & PAD (5'x5')
(PER C.O.A. STD. DWG. 2101)

CAST IN PLACE SLAB (8")

#4 "c" REBAR AT 6" O.C.
EMBEDDED 12" MIN. EACH END.

12"

9"

20%

8"

120°

RUNDOWN INV. PER PLANS

5'-2 1/2"

#4 @ 12" O.C.
EACH WAY

EARTH DITCH

STD. MH BARREL SECTIONS
PER C.O.A. STD. DWG. 2101 AND 2102.

REMOVE PORTION OF
PRECAST MH BARREL,
BEND REINF. STEEL &
CAST IN PLACE MH
WALL.

NOT TO SCALE

CL TYPE "E" MH
W/RUNDOWN INLET

VARIES

8'

2.5'

STA. & OFFSET
SHOWN ON PLANS

TYP. GUARDRAIL SPACING = 6'-3" O.C.

37.5' TYPE C END ANCHORAGE
PER C.O.A. STD. DWG. 2635

12.5' *
GUARDRAIL PER
C.O.A. STD.
DWG. 2610

37.5' TYPE C END ANCHORAGE
PER C.O.A. STD. DWG. 2635

EXISTING
BRIDGE BLVD.
PAVEMENT EDGE

ON-COMING TRAFFIC

* 12.5' TANGENT GUARDRAIL IS TO BE OMITTED
AT INLET STA. 54+18 AND INLET STA. 64+77

[illegible][illegible]

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP													
TITLE: AMOLE DEL NORTE STORM DIVERSION FACILITIES - PHASE IIID TIERRA BATITA DRAINAGE FACILITIES													
MISCELLANEOUS DETAILS													
Design Review Committee APPROVED MAR 26 1998 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED MAR 26 1998 CITY ENGINEER	Last Design Update	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Mo./Day/Yr.</th> <th style="width: 50%;">Mo./Day/Yr.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	Mo./Day/Yr.	Mo./Day/Yr.								
Mo./Day/Yr.	Mo./Day/Yr.												
City Project No. 4076.93		Zone Map No. K-9, L-10											
Sheet 7		Of 11											

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES				CONTRACTOR A.L.B. UNDERGROUND DATE 7/98	
		NO.	BY	DATE			WORK DONE BY CONTRACTOR
		1880	GREINER	6-7/90	ACS 10-L-9 ALUMINUM CAP SET IN CONCRETE		WORK DONE BY CONTRACTOR
		1883	GREINER	7/83/90	CURB ON THE NORTHEASTERLY TURN ISLAND IN THE INTERSECTION OF 98TH STREET AND CENTRAL AVENUE.		INSPECTOR'S ACCEPTANCE BY R. MINCH/6/90 DATE 7/98
		1886	GREINER	12/90	N = 1,482.085.203 E = 352,792.376		FIELD VERIFICATION BY COB/6/90 DATE 1/99
		1893	GREINER	12/90	ELEV = 5204.425		DRAWINGS CORRECTED BY JAS GREINER DATE 8/98
		1893	GREINER	1/91			MICRO-FILM INFORMATION
		1910	GREINER	9-10/91			RECORDED BY
		1910	UPS GREINER	9-11/92			DATE

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. 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 WITH 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 FOR EACH PHASE 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 IS 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. EXTENDED HOUR CONSTRUCTION IS REQUIRED. WORK HOURS SHALL BE 7:00 AM TO 10:00 PM, MONDAY THROUGH SATURDAY EXCEPT AS NOTED IN PHASE 3.

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 TRAVELING 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, ORANGE LETTERING ON WHITE BACKGROUND. 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. 48 HOURS PRIOR TO OCCUPANCY 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, UNLESS OTHERWISE SPECIFIED IN THE PLANS, 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 WORKS 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.

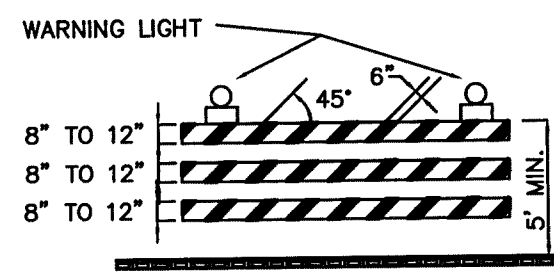
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.

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

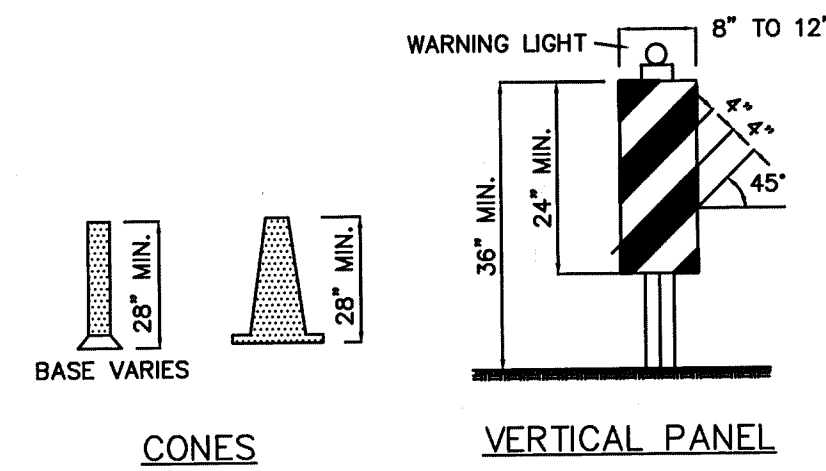
26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MINIMUM WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE MUTCD.

27. CONTRACTOR SHALL MAINTAIN A GRAFTITI FREE WORKSITE. ALL GRAFTITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.

28. IMPACT ATTENUATORS SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT PRICE FOR ITEM NUMBER 0019.01-CONSTRUCTION TRAFFIC CONTROL AND BARRICADING AND NO ADDITIONAL MEASUREMENT OR PAYMENT WILL BE MADE.



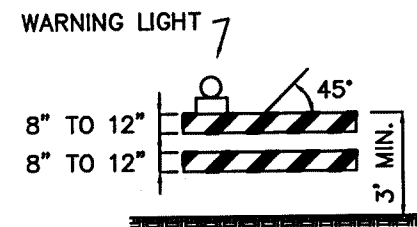
TYPE III BARRICADE



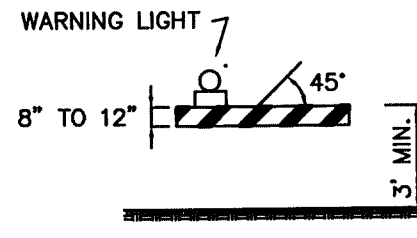
CONES

VERTICAL PANEL

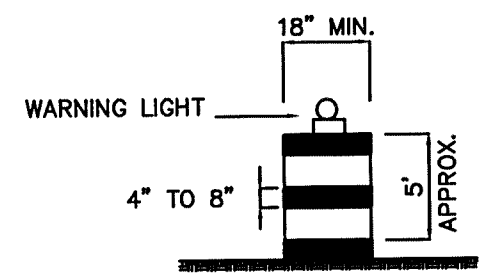
HIGH LEVEL WARNING DEVICE



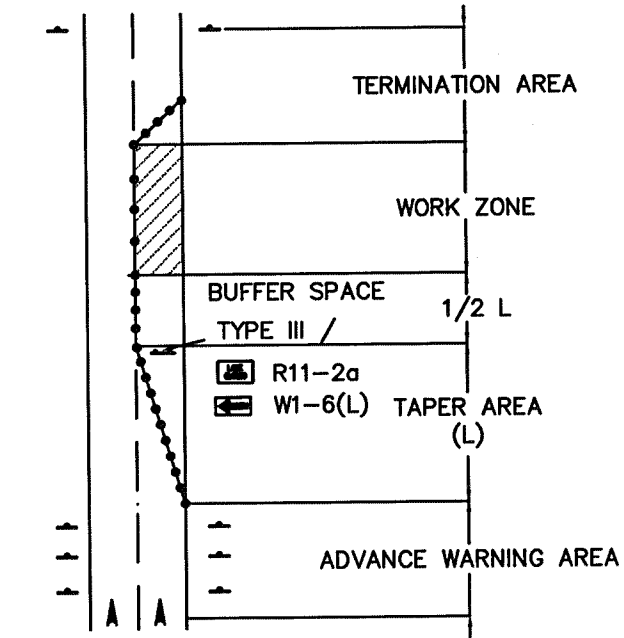
TYPE II BARRICADE COLLAPSIBLE



TYPE I BARRICADE COLLAPSIBLE



DRUM
TYPE DRUM W/
REFLECTIVITY III-A
SHEETING



TRAFFIC CONTROL ELEMENTS

LEGEND

- WORK AREA
- BARRICADE - TYPE I, TYPE II, OR TYPE 'H' DRUM W/ REFLECTIVITY III-A SHEETING
- BARRICADE - TYPE III
- VERTICAL PANEL
- WARNING SIGN
- DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
- FLAGMAN POSITION
- SPACING BETWEEN BARRICADES- A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
- 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 (L) (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM 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(D) FOR ADVANCE WARNING SIGN SERIES

SPEED LIMIT (MPH)	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	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

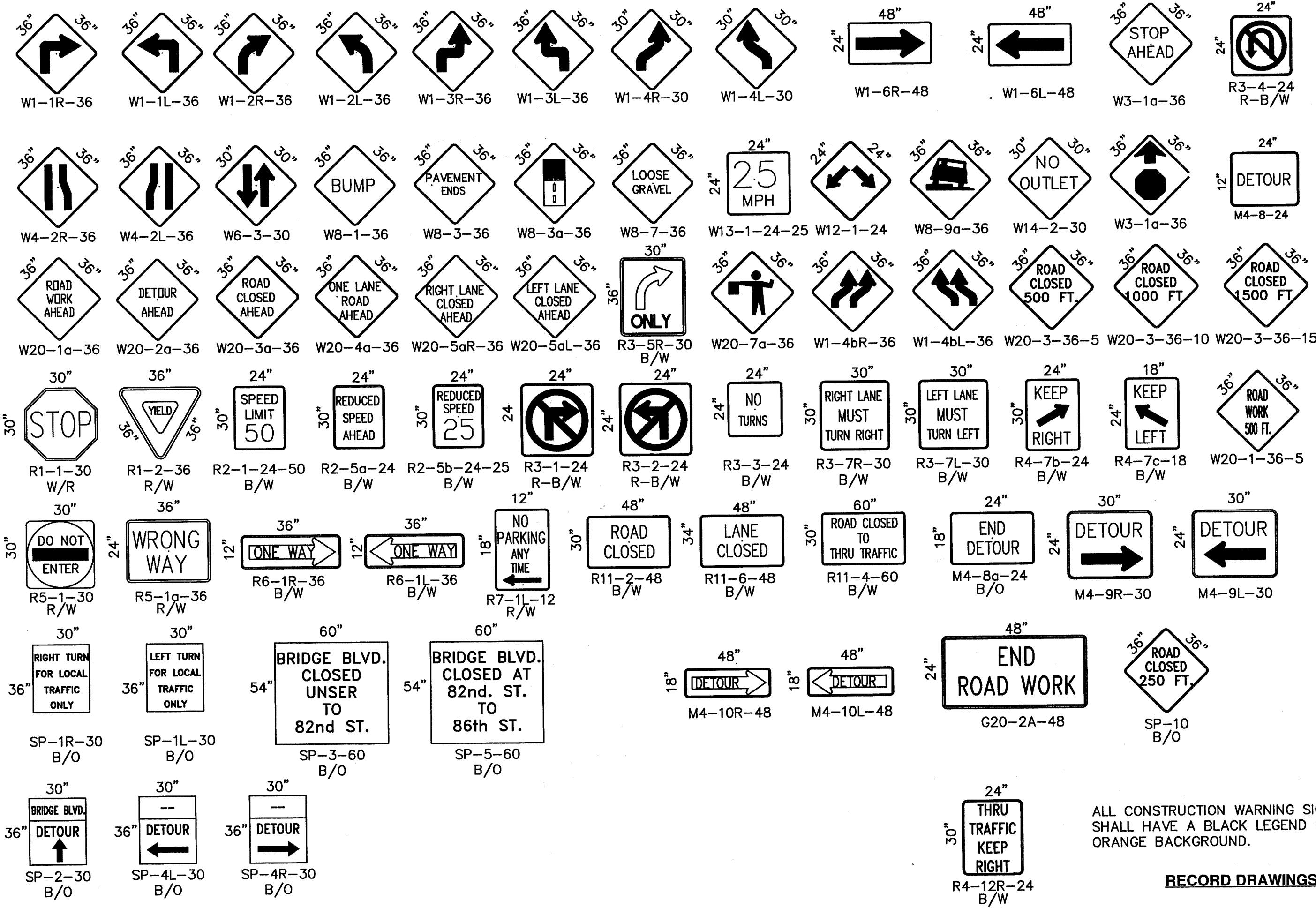
TAPER LENGTH COMPUTATION

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

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SIGN FACE DETAILS



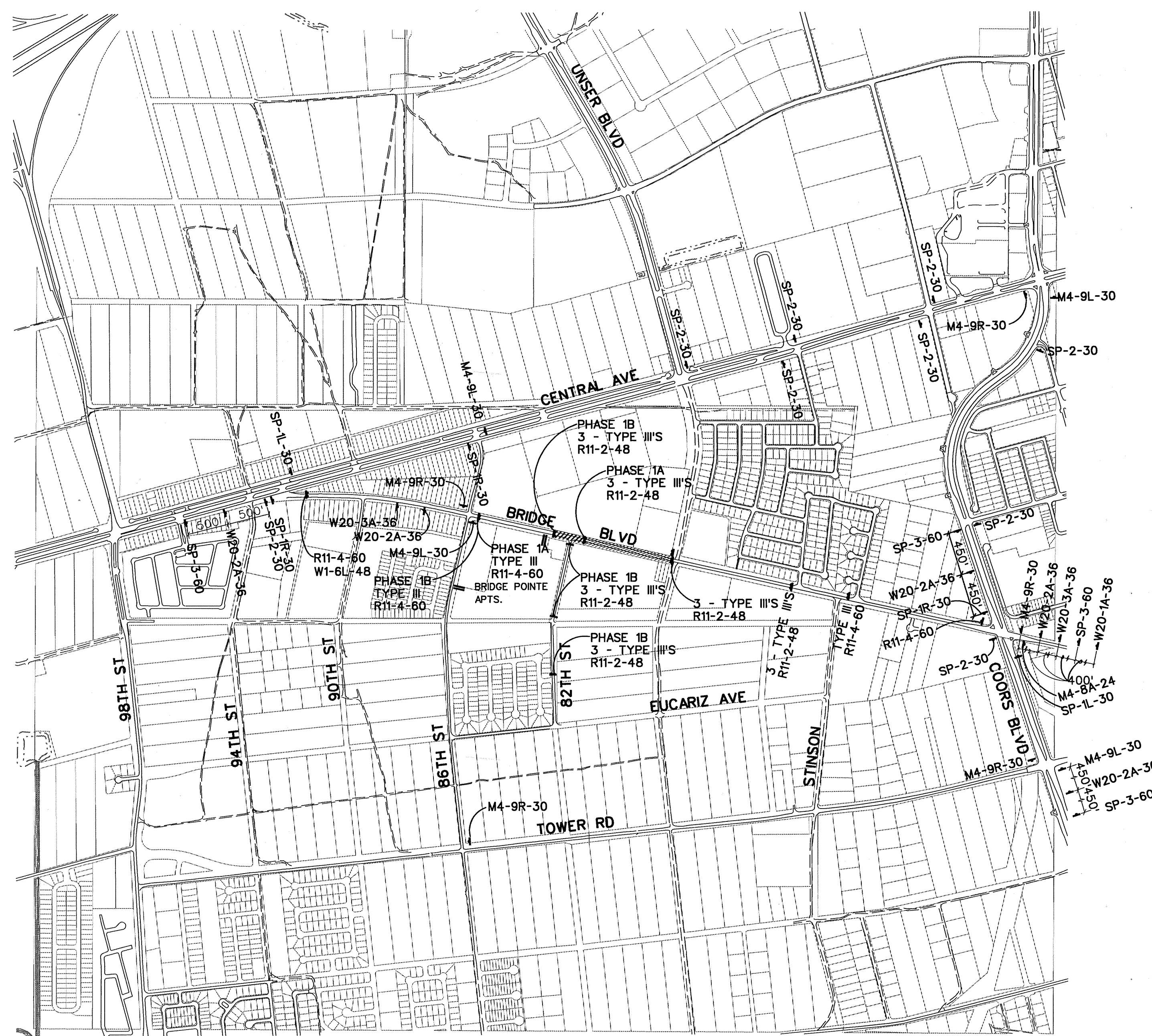
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON AN ORANGE BACKGROUND.

RECORD DRAWINGS

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

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: AMOLE DEL NORTE STORM DIVERSION FACILITIES - PHASE III TIERRA BATYA DRAINAGE FACILITIES			
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS			
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED MAR 26 1998 DESIGN REVIEW COMMITTEE	APPROVED MAR 26 1998 CITY ENGINEER		
City Project No. 4076.93		Zone Map No. K-9,10, L-9,10	Sheet 8 Of 11

E30000115 P:\E000115\CADD\TPLAN1.DGN



SCALE: 1" = 800'

PHASE 1 DETOUR PLAN

PHASE 1A - CLOSE BRIDGE BLVD. FROM UNSER TO 82ND ST. LEAVING 82ND STREET OPEN.

PHASE 1B - WHEN WORK HAS PROCEEDED TO 82ND ST., EXTEND BRIDGE BLVD. CLOSURE TO EAST SIDE OF BRIDGE POINTE APTS. DRIVEWAY

ALL SIGNS MUST BE IN USE THROUGHOUT PHASE I EXCEPT AS NOTED SPECIFICALLY FOR PHASE 1A OR 1B.

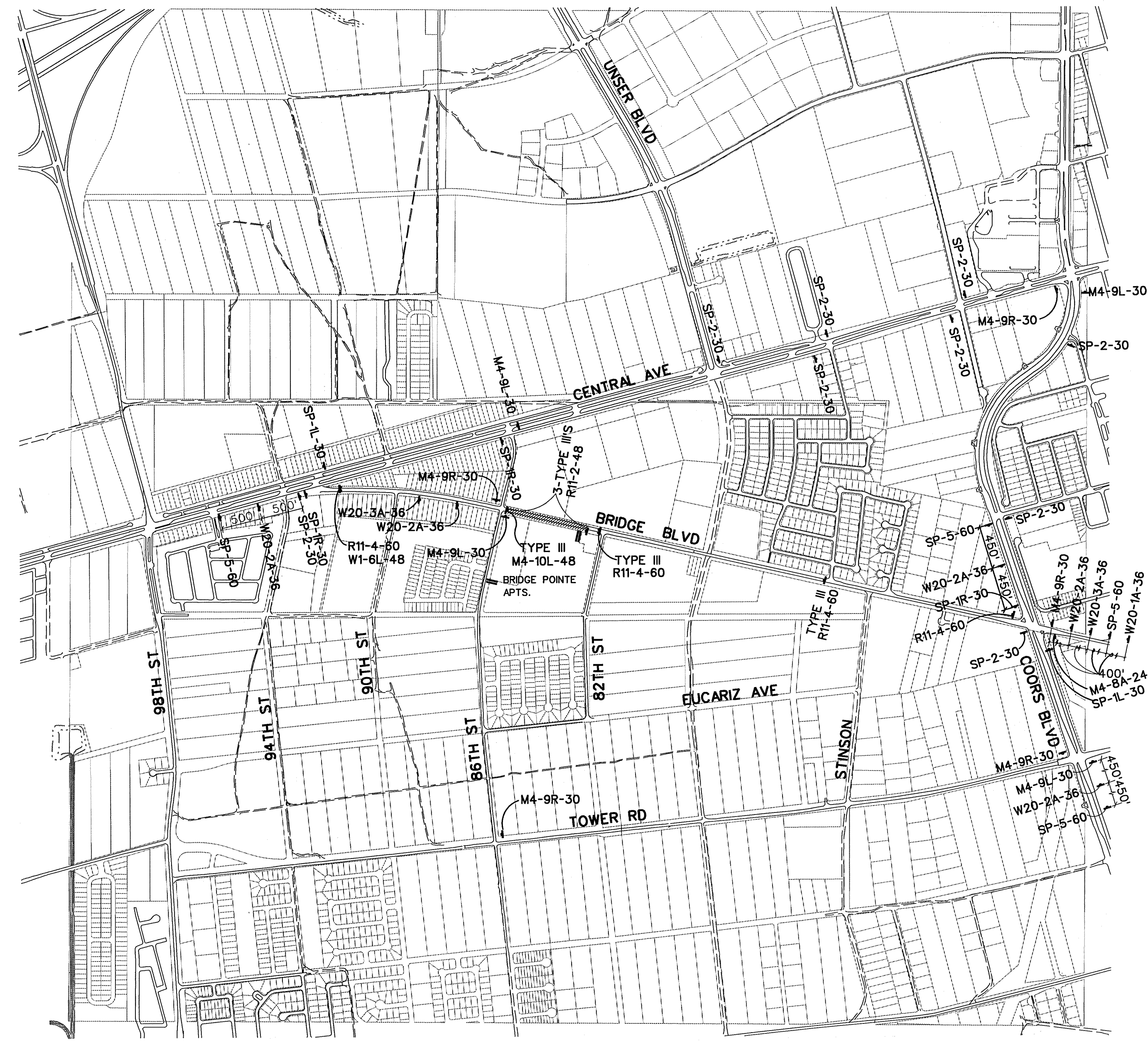
DETOUR PLAN SIGNS SHALL BE PLACED PRIOR TO THE MORNING RUSH HOUR.

PHASE 1A - ALLOWABLE DURATION IS 18 DAYS

PHASE 1B - ALLOWABLE DURATION IS 5 DAYS

LEGEND

- DRIVEWAY ACCESS
- WORK AREA PHASE 1A OR PHASE 2
- WORK AREA PHASE 1B
- PAVED ROAD



SCALE: 1" = 800'

PHASE 2 DETOUR PLAN

CLOSE BRIDGE BOULEVARD FROM BRIDGE POINTE APARTMENTS DRIVEWAY TO 86TH STREET LEAVING 86TH STREET OPEN. PLACE NEW SIGNS AS REQUIRED FOR PHASE 2 CLOSURE.

WHEN WORK HAS PROCEEDED PAST THE BRIDGE POINTE APARTMENTS DRIVEWAY, PAVE THE AREA USING TEMPORARY COLD MIX ASPHALT AND REOPEN.

ALL SIGNS MUST BE IN USE THROUGHOUT PHASE 2.

DETOUR PLAN SIGNS SHALL BE PLACED PRIOR TO THE MORNING RUSH HOUR.

PHASE 2 - ALLOWABLE DURATION IS 17 DAYS.

RECORD DRAWINGS

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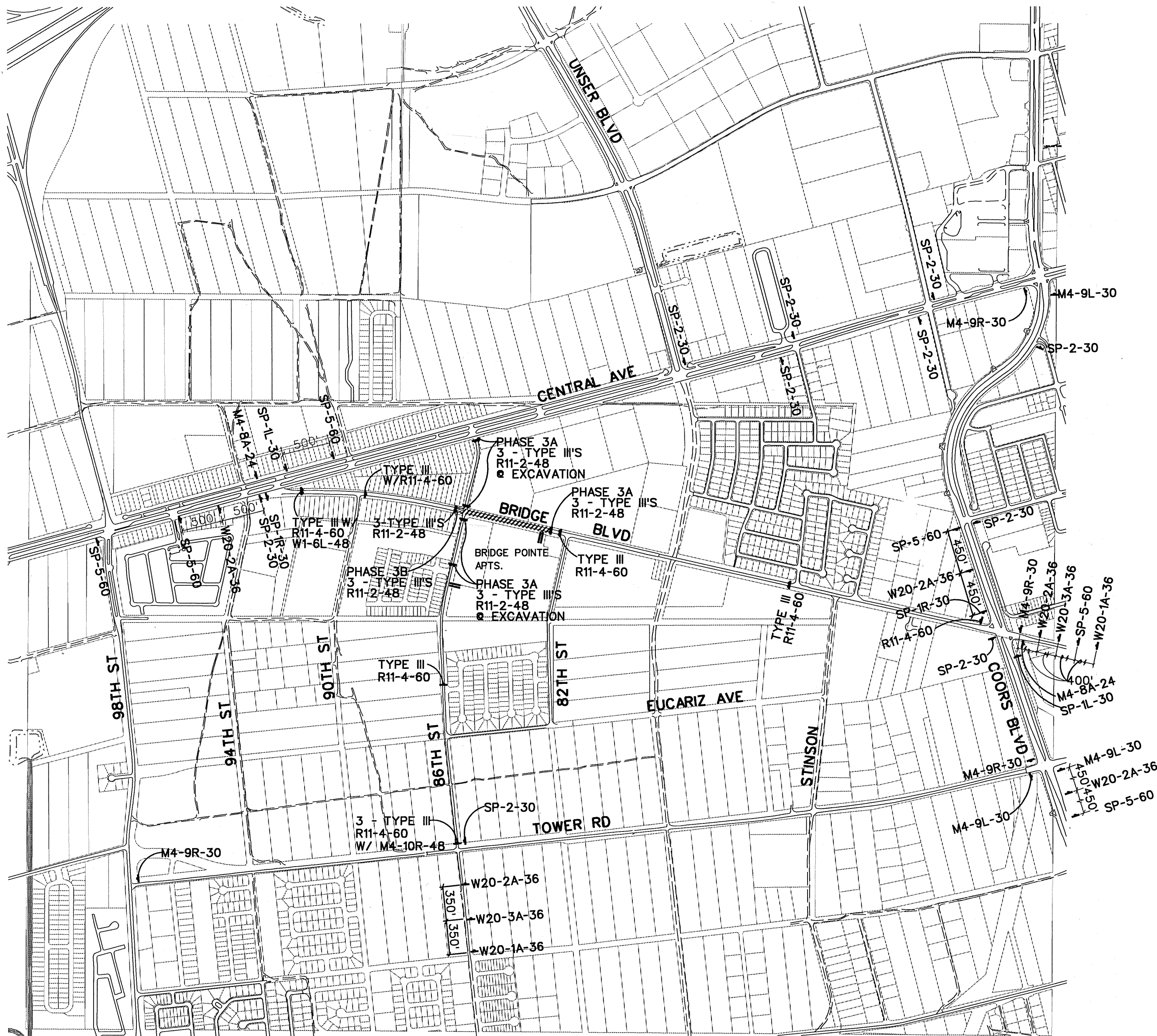
9-16-98

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: AMOLE DEL NORTE STORM DIVERSION FACILITIES - PHASE III TERRA BATTA DRAINAGE FACILITIES	
DETOUR PLAN PHASE 1 AND 2	
Design Review Committee APPROVED MAR 26 1998 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED MAR 26 1998 CITY ENGINEER
City Project No. 4076.93	Zone Map No. K-9,10, L-9,10
Sheet 10	Of 11

30" 30" 60" 60" 30" 30" 30"
RIGHT TURN FOR LOCAL TRAFFIC ONLY
LEFT TURN FOR LOCAL TRAFFIC ONLY
BRIDGE BLVD. CLOSED UNDER TO 82nd ST.
BRIDGE BLVD. CLOSED AT 82nd ST. TO 86th ST.
BRIDGE BLVD. DETOUR
BRIDGE BLVD. DETOUR
BRIDGE BLVD. DETOUR

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	DATE	NO.	DATE	WORK	DATE
				CONTRACTOR	DATE
				STAKED BY	DATE
				INSPECTED BY	DATE
				FIELD	DATE
				ADJUSTED BY	DATE
				REVISIONS	DATE
				CORRECTED BY	DATE
				MICRO-FILM INFORMATION	DATE
				RECORDED BY	DATE



PHASE 3 DETOUR PLAN

PHASE 3A

EXTEND PHASE 2 CLOSURE TO INCLUDE 86TH STREET INTERSECTION. EXTEND PIPE IMPROVEMENTS THROUGH INTERSECTION. PLACE NEW SIGNS AS REQUIRED FOR PHASE 3A CLOSURE.

CLOSE BRIDGE POINTE APARTMENT DRIVEWAY, REMOVE COLD MIX ASPHALT AND INSTALL PERMANENT PAVEMENT THROUGHOUT PHASE 2 AND 3.

ALL SIGNS MUST BE IN USE THROUGHOUT PHASE 3 EXCEPT AS NOTED SPECIFICALLY FOR PHASE 3A OR 3B.

DETOUR PLAN SIGNS SHALL BE PLACED PRIOR TO THE MORNING RUSH HOUR.

ALL WORK IN THIS PHASE SHALL BE PERFORMED ON A CONTINUOUS 24 HOUR PER DAY BASIS STARTING AT 7:00 PM FRIDAY THROUGH 7:00 PM MONDAY (FOR 86TH STREET CLOSURE).

PHASE 3B

OPEN 86TH STREET AS SOON AS POSSIBLE (3 DAYS MAXIMUM).

CLOSE BRIDGE BOULEVARD IF NECESSARY, FROM 86TH ST. TO THE WEST (APPROXIMATELY 80') TO THE END OF PROJECT TO COMPLETE THE INLET, LATERAL AND GUARDRAIL WORK.

PHASE 3 - ALLOWABLE DURATION IS 5 DAYS. THE 86TH STREET CLOSURE (PHASE 3A) MUST BE COMPLETED IN 3 DAYS, AND PHASE 3B IN THE REMAINING 2 DAYS.

LEGEND

- DRIVEWAY ACCESS
- //// WORK AREA PHASE 3A
- //// WORK AREA PHASE 3B
- PAVED ROAD

RECORD DRAWINGS

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: AMOLE DEL NORTE STORM DIVERSION FACILITIES - PHASE IID TIERRA BAYITA DRAINAGE FACILITIES			
DETOUR PLAN PHASE 3			
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED MAR 26 1998 DESIGN REVIEW COMMITTEE	APPROVED MAR 26 1998 CITY ENGINEER		
City Project No. 4076.93		Zone Map No. K-9,10, L-9,10	Sheet 11 Of 11

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO. DATE		FIELD NOTES		CONTRACTOR		CONTRACTOR ALB. UNDERGROUND DATE 7/98	
REMARKS		BY		DATE		WORK	
REVISIONS		NO.		DATE		STAKED BY CONTRACTOR	
DESIGN		BY		DATE		FIELD ACCEPTANCE BY DATE 7/98	
DESIGNED BY: SKJ		DATE: 2/98		DATE: 7/98		FIELD ACCEPTANCE BY COA 11/98	
DRAWN BY: JAK		DATE: 2/98		DATE: 7/98		DRAWINGS	
CHECKED BY: MSH/TS		DATE: 2/98		DATE: 7/98		CORRECTED BY URS GREINER DATE 8/98	
						MICRO-FILM INFORMATION	
						RECORDED BY	
						DATE	