



CITY OF ALBUQUERQUE, NEW MEXICO

CONSTRUCTION PLANS FOR

INTEL SANITARY SEWER WESTERN TRAIL (PHASE II)

FROM ATRISCO TO
COORS BLVD.

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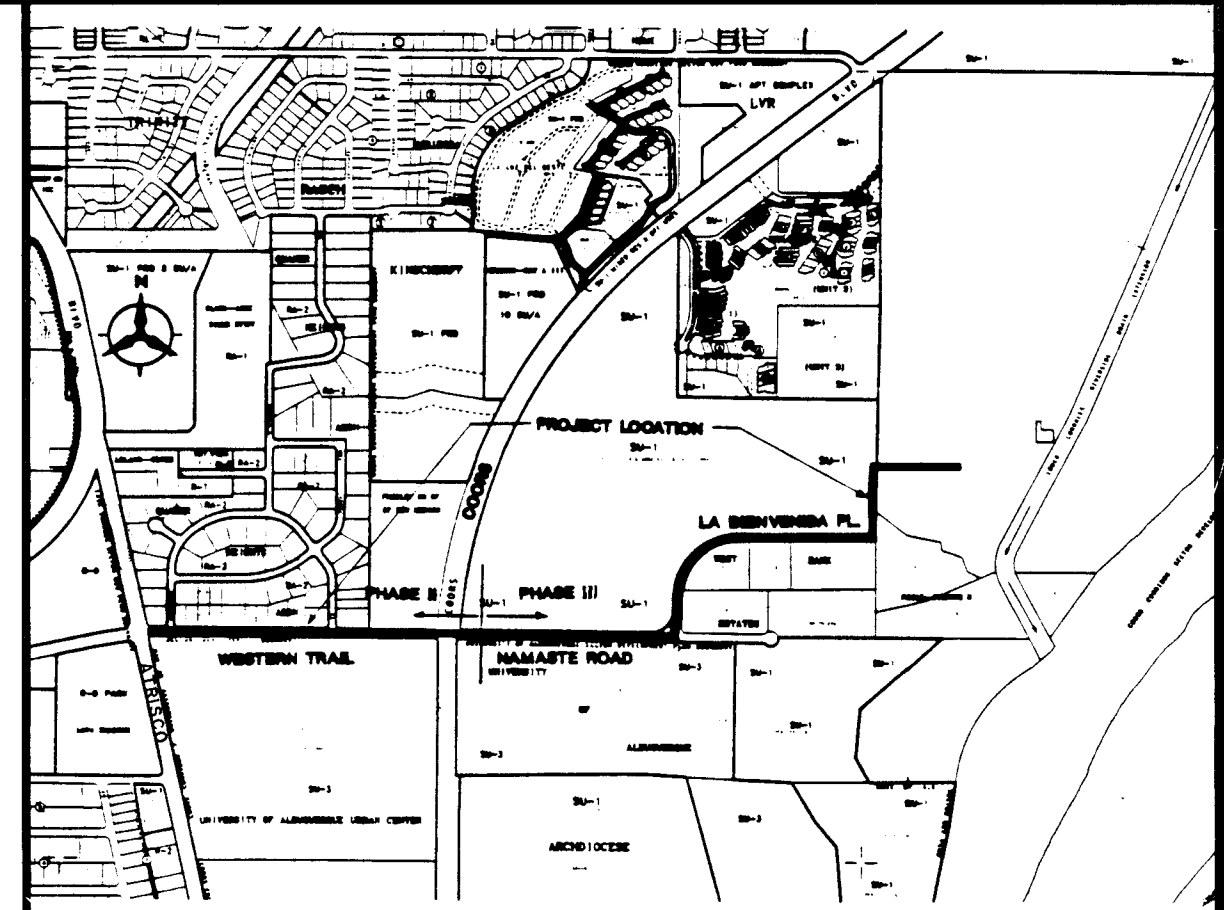
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RECORD DRAWING

Roger A. Green PE
NM # 6810
10-16-95

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26-9779.93 0195

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
[Signature]
DATE 10-16-95



VICINITY MAP

NOT TO SCALE
F-11, F-12

NOTICE TO CONTRACTORS

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION, WITH CURRENT UPDATES.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED IN KIND BY CONTRACTOR TO LOCATION AND IN KIND AS EXISTING OR AS INDICATED BY THIS PLAN SET.
- CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY CITY SURVEY SECTION. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

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

REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
APPROVAL OF REVISIONS							

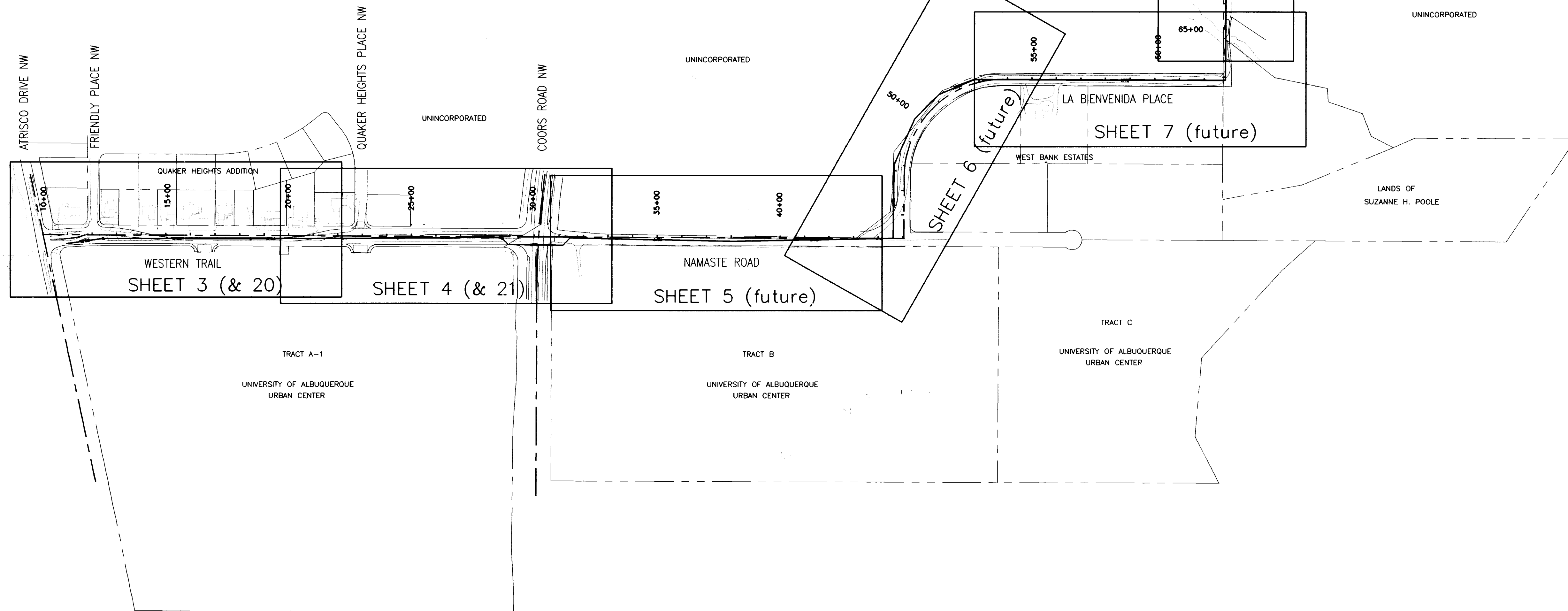
<i>David B. Heston</i> 7/27/94 only for sheets 1-19		BOHANNAN HUSTON, INC. ALBUQUERQUE, NEW MEXICO ENGINEERS PLANNERS PHOTOGRAMMETRISTS (ONLY FOR SHEETS 1 thru 19)	APPROVED FOR CONSTRUCTION <i>[Signature]</i> C.E.
		PROJECT NUMBER 4779.93	SHEET 1 OF 23

BHI JOB NO. 93252.21

SCANNED BY
BY LASON

TABLE 1	
RESTRAINED JOINT LENGTH	
FROM STATION (OFFSET)	TO STATION (OFFSET)
28+70 (7.01' RT.)	29+16 (31.97' RT.)
30+95 (33.79' RT.)	31+67 (4.5' RT.)
44+30 (-)	45+35 (43.0' LT.)
47+67 (41.0' LT.)	48+92 (23.5' LT.)
47+77 (41.0' LT.)	47+77 (26.0' LT.)
49+79 (27.0' LT.)	49+98 (27.0' LT.)
51+10 (24.0' LT.)	51+29 (23.0' LT.)
52+59 (14.0' LT.)	54+13 (-)
52+86 (10.0' LT.)	52+86 (5.0' RT.)
62+59 (2.0' RT.)	63+15 (-)
71+80 (-)	72+35 (3.5' LT.)
83+00 (-)	83+10 (10' RT.)*

*LIMITED BY PIPE CONFIGURATION, ADJUST FOR FIELD CONDITIONS

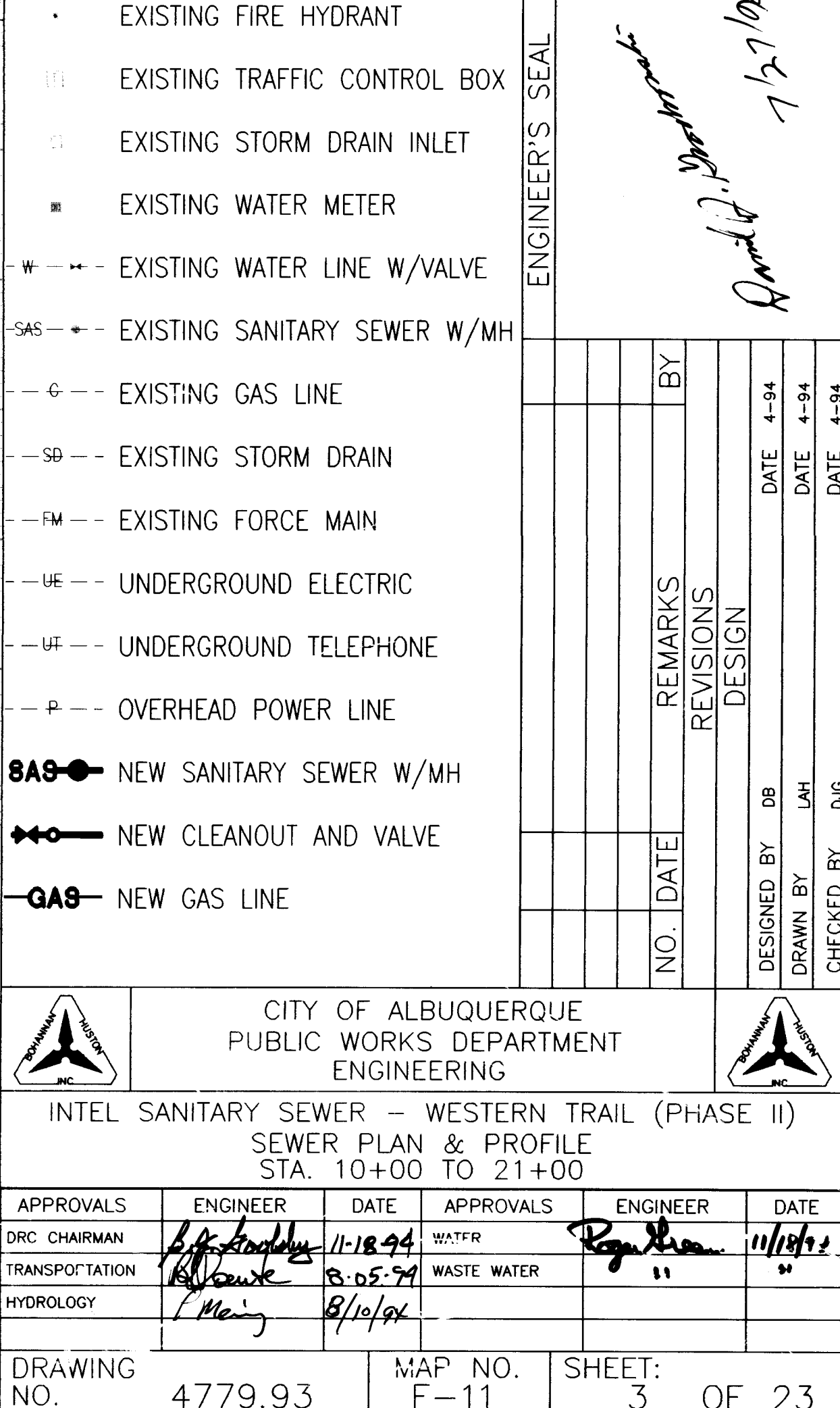
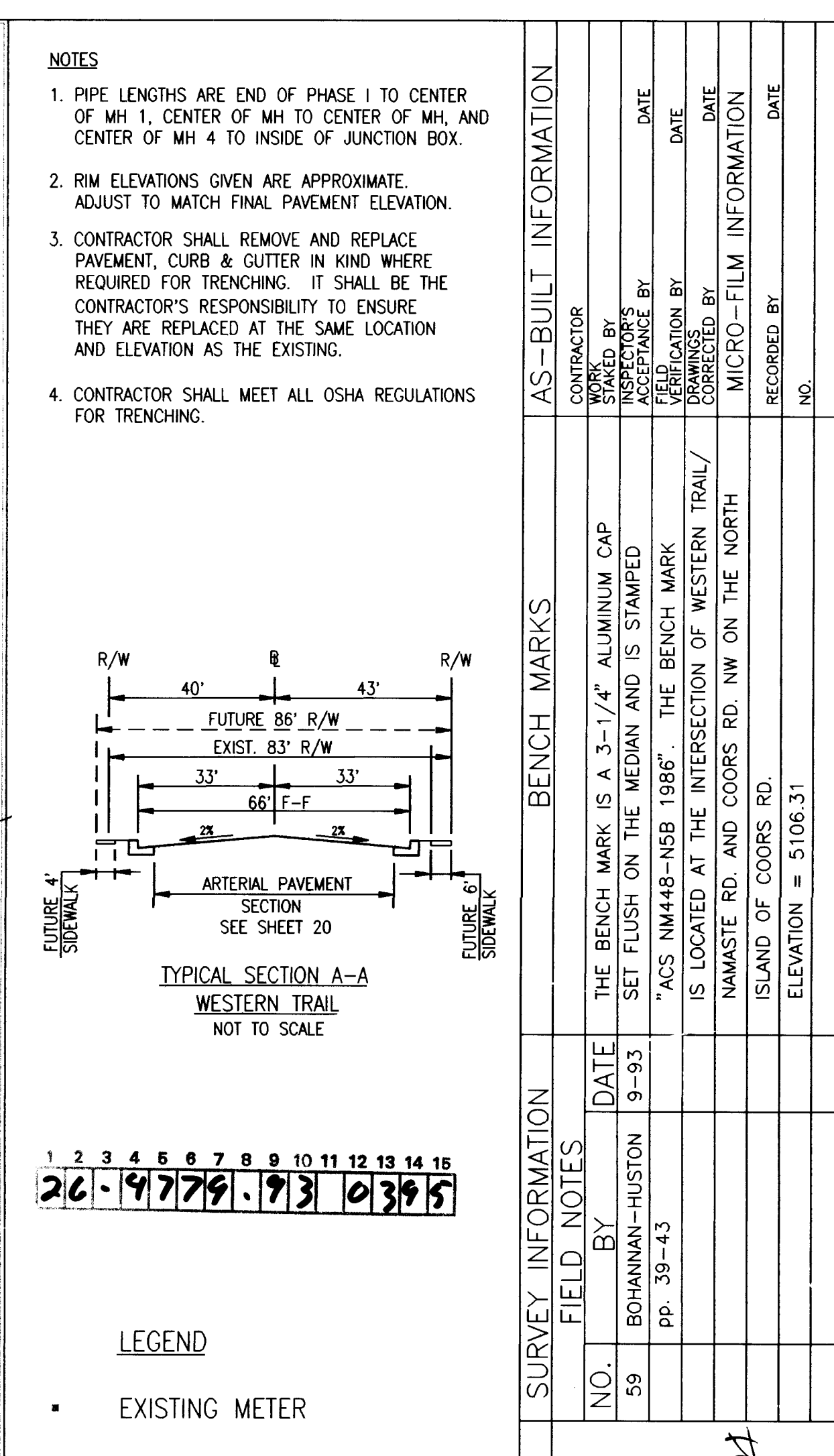


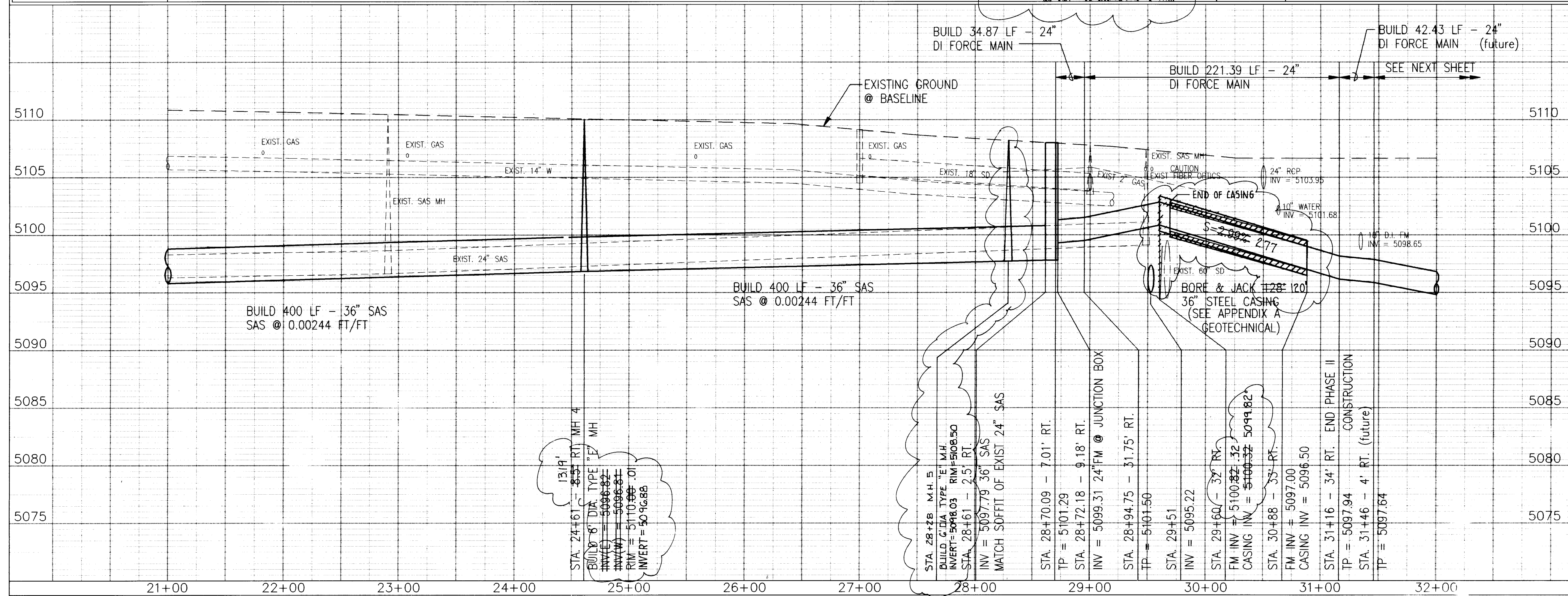
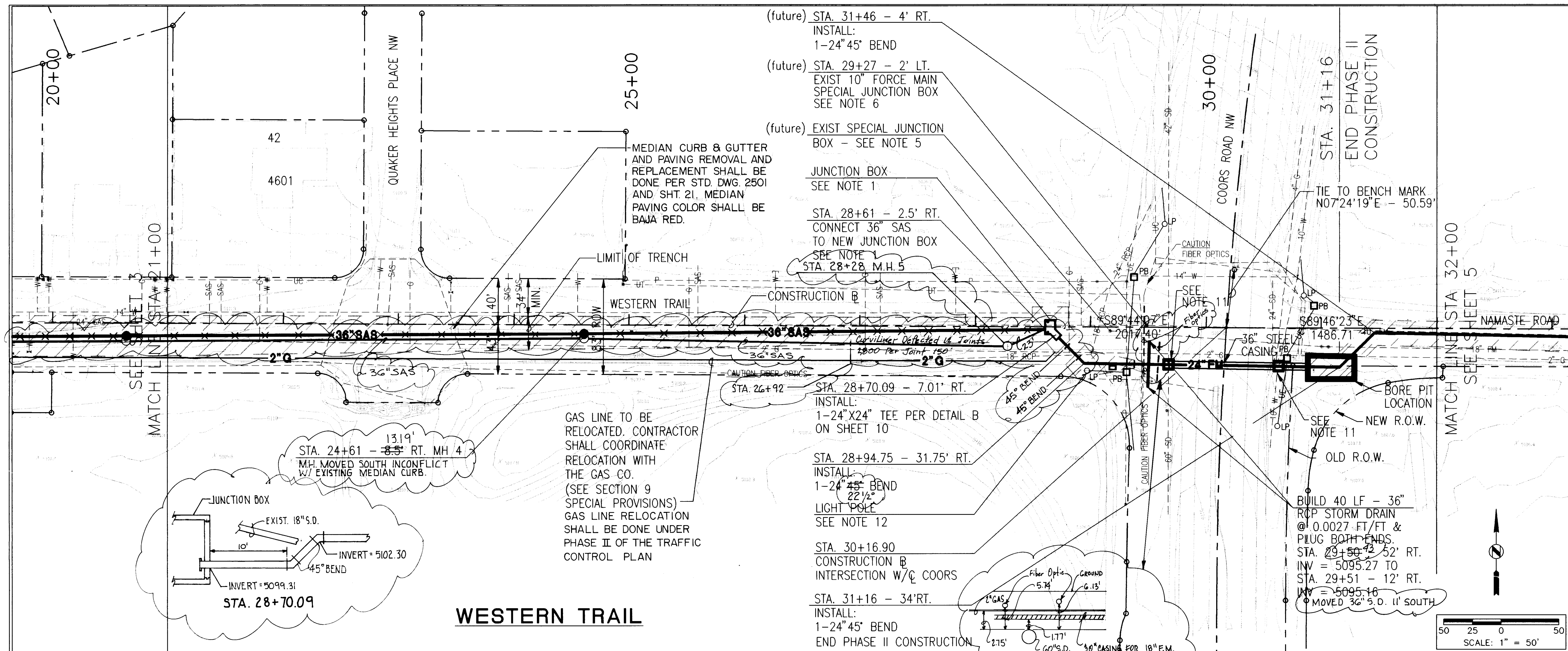
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
20-4779.93 0295

250 125 0 250
SCALE: 1" = 250'

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING					
INTEL SANITARY SEWER - WESTERN TRAIL (PHASE II) OVERALL PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>S. G. Gentry</i>	11-18-94	WATER	<i>R. J. H. H.</i>	11-18-94
TRANSPORTATION	<i>N/A RHO</i>	8-05-94	WASTE WATER	<i>R. J. H. H.</i>	11
HYDROLOGY	<i>UA LDM</i>	8/10/94			
DRAWING NO. 4779.93		MAP NO. F-11,12		SHEET: 2 OF 23	

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
		FIELD NOTES		BENCH MARKS		AS-BUILT INFORMATION	
		NO.	DATE	THE BENCH MARK IS A 3-1/4" ALUMINUM CAP SET FLUSH ON THE MEDIAN AND IS STAMPED "ACS NM448-NBB 1986". THE BENCH MARK IS LOCATED AT THE INTERSECTION OF WESTERN TRAIL/ NAMASTE RD. AND COORS RD. NW ON THE NORTH ISLAND OF COORS RD.		CONTRACTOR	NO.
		59	9-93	BOHANNAN-HUSTON pp. 39-43		INSPECTOR'S ACCEPTANCE BY	DATE
						VERIFICATION BY	DATE
DESIGNED BY DB		DATE 4-94		DRAWN BY LAH		MICRO-FILM INFORMATION	
CHECKED BY DSG		DATE 4-94					





NOTES

- SEE SHEETS 10 & 11 FOR JUNCTION BOX DETAILS. THE EXISTING 24" GRAVITY SAS SHALL REMAIN INTACT DURING CONSTRUCTION OF THE JUNCTION. IT SHALL BE REMOVED FROM THE INSIDE OF THE JUNCTION BOX AFTER COMPLETION OF ALL OTHER JUNCTION BOX ITEMS.
- PIPE LENGTHS ARE END OF PHASE I TO CENTER OF MH 1, CENTER OF MH TO CENTER OF MH, AND CENTER OF MH 4 TO INSIDE OF JUNCTION BOX.
- RIM ELEVATIONS GIVEN ARE APPROXIMATE. ADJUST TO MATCH FINAL PAVEMENT ELEVATION.
- CONTRACTOR SHALL REMOVE AND REPLACE PAVEMENT, CURB & GUTTER WHERE REQUIRED FOR TRENCHING. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THEY ARE REPLACED AT THE SAME LOCATION AND ELEVATION AS THE EXISTING.
- THE 24" GRAVITY SAS INLET AT THE EAST END OF THE EXISTING SPECIAL JUNCTION BOX WILL BE PLUGGED AFTER THE 10" FORCE MAIN IS SHUT OFF AND OUT OF SERVICE. (future)
- FIELD VERIFY AND NOTIFY ENGINEER OF EXISTING STEEL CASING DIAMETER PRIOR TO 10" FORCE MAIN REMOVAL & GROUTING OF CASING. REMOVE AND DISPOSE OF SPECIAL JUNCTION BOX AND 180 FEET OF 10" CAST IRON PIPE. GROUT & ABANDON STEEL CASING, AND PLUG EAST END OF 10" SAS. (future)
- ALL FORCE MAIN FITTINGS SHALL REQUIRE RESTRAINED JOINTS PER THE SCHEDULE ON SHEET 2.
- ALL FORCE MAIN PIPE SHALL BE D.I. PRESSURE CLASS 200 AND A TYPE 3 LAYING CONDITION EXCEPT WHERE INDICATED OTHERWISE.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING 10" FORCE MAIN AND APPURTENANCES. (future)
- CONTRACTOR SHALL MEET ALL OSHA REGULATIONS FOR TRENCHING.
- CONTRACTOR TO POT HOLE TO 60" STORM DRAIN & 10" WATERLINE BEFORE BORE AND JACK TO AVOID CONFLICT WITH CASING AND EXISTING UTILITIES (COST OF POT HOLES WILL BE INCIDENTAL TO COST OF BORE AND JACK).
- CAUTION - CONTRACTOR MUST SUPPORT AND PROTECT LIGHT POLE DURING CONSTRUCTION. COST IS INCIDENTAL, NO SEPARATE PAYMENT.

LEGEND

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

- SAS** - NEW SANITARY SEWER W/MH
- NEW CLEANOUT AND VALVE**
- GAS** - NEW GAS LINE



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

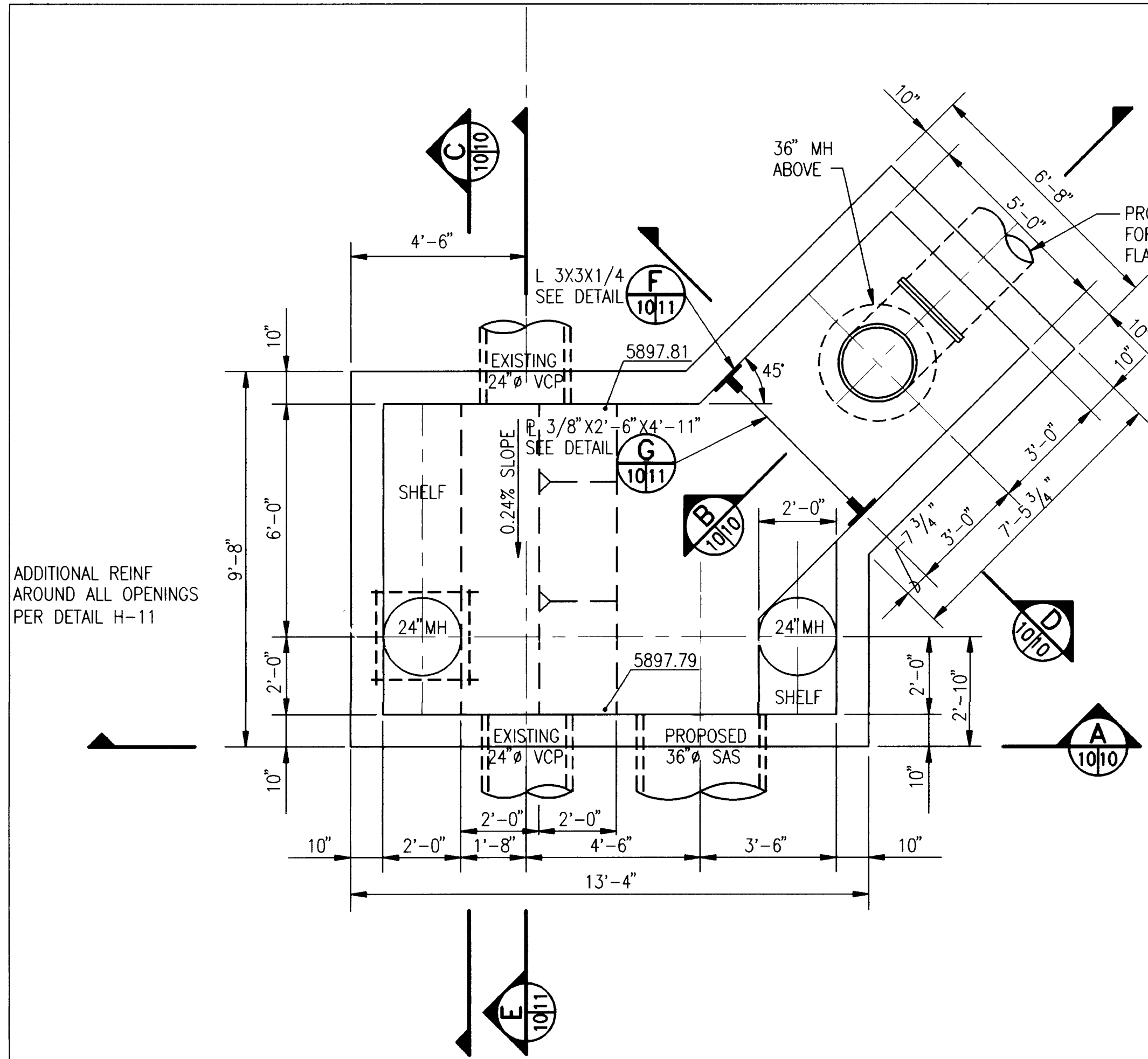
INTEL SANITARY SEWER - WESTERN TRAIL (PHASE II)
SEWER PLAN & PROFILE
STA. 21+00 TO 32+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	11-18-94	WATER	<i>[Signature]</i>	11/18/94
TRANSPORTATION	<i>[Signature]</i>	8-05-97	WASTE WATER	<i>[Signature]</i>	"
HYDROLOGY	<i>[Signature]</i>	8/1/94			

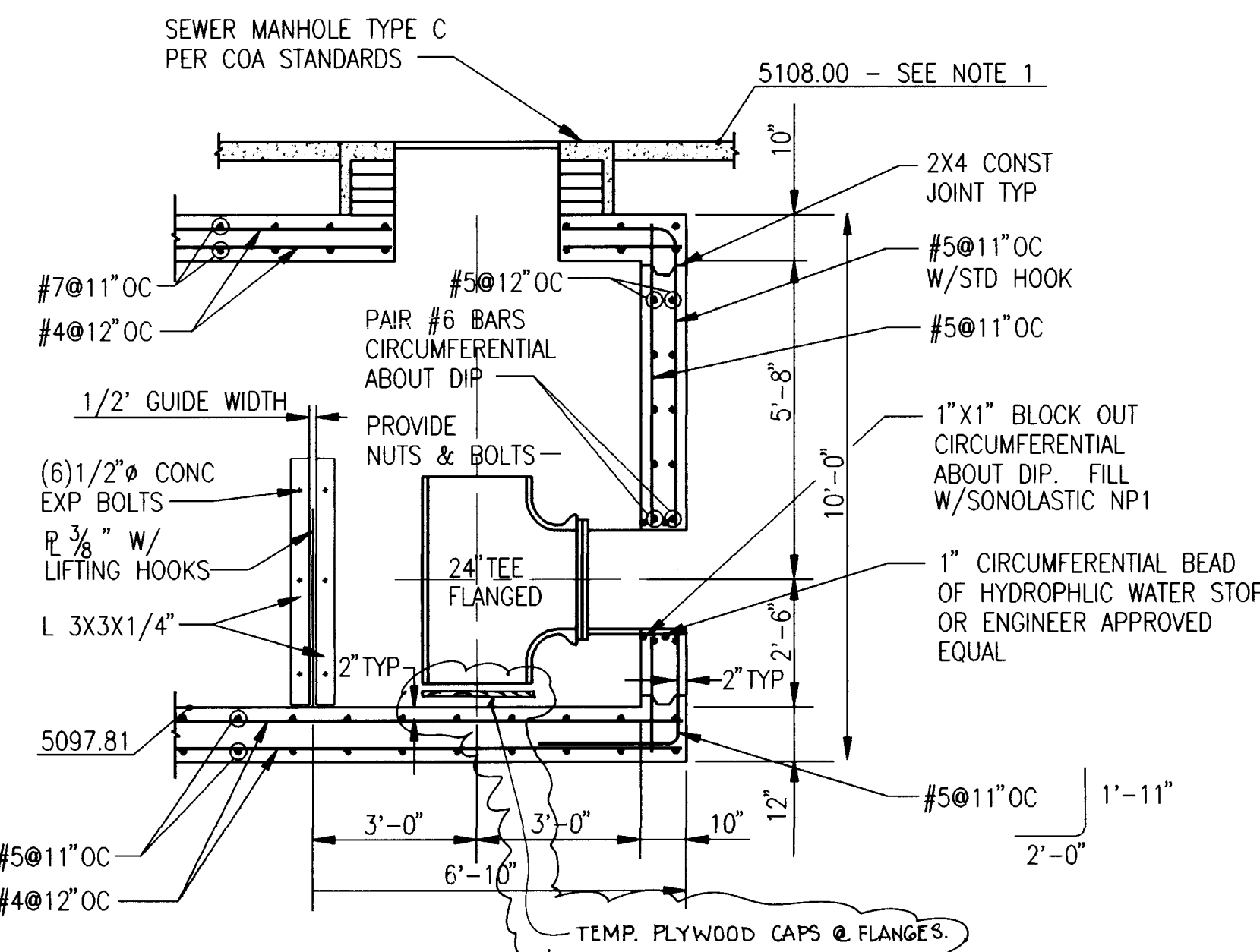
DRAWING NO.	4779.93	MAP NO.	F-11	SHEET:	4 OF 23
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SCANNED BY
BY LASON

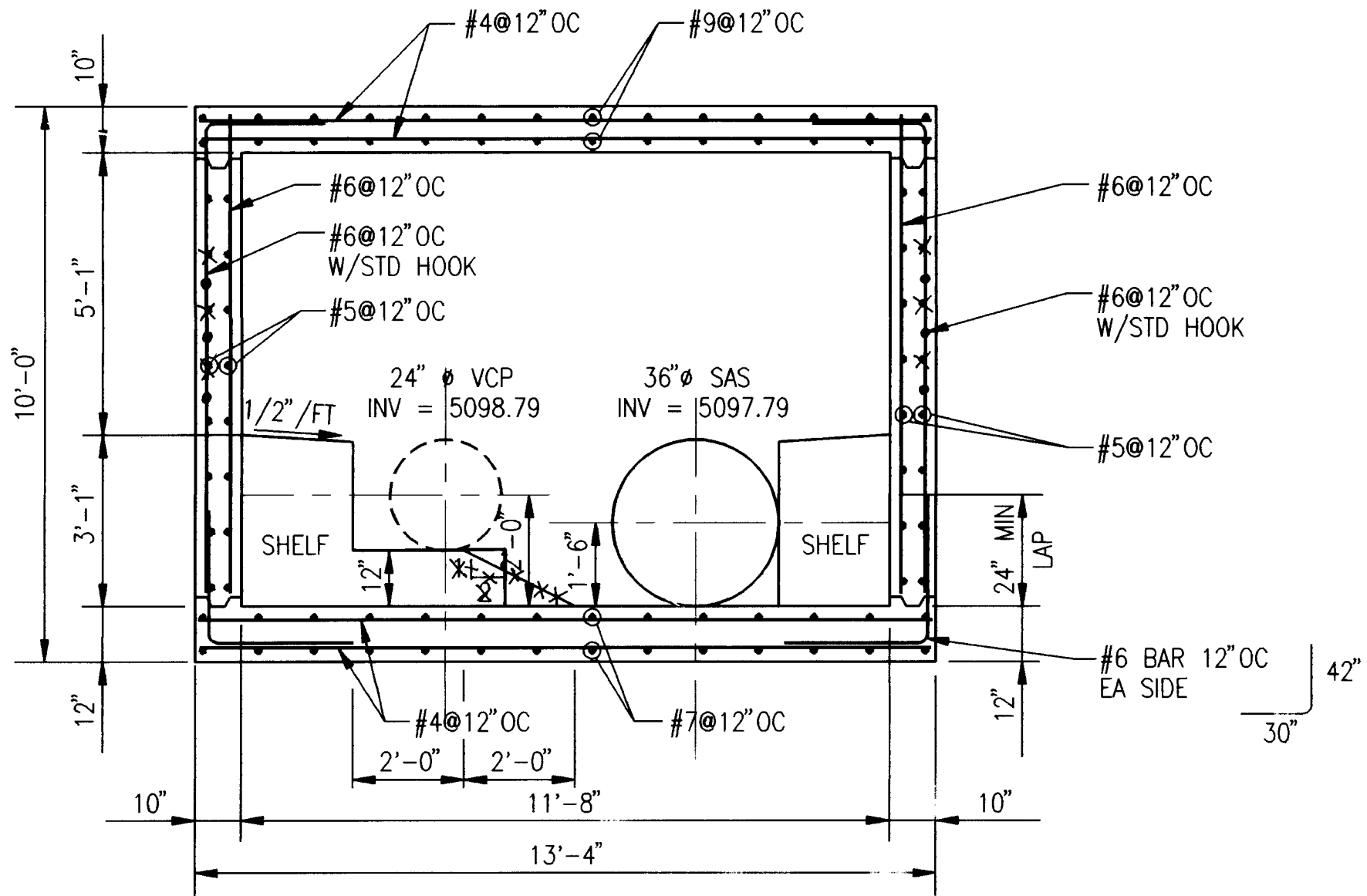
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20-4779.93 93 0495



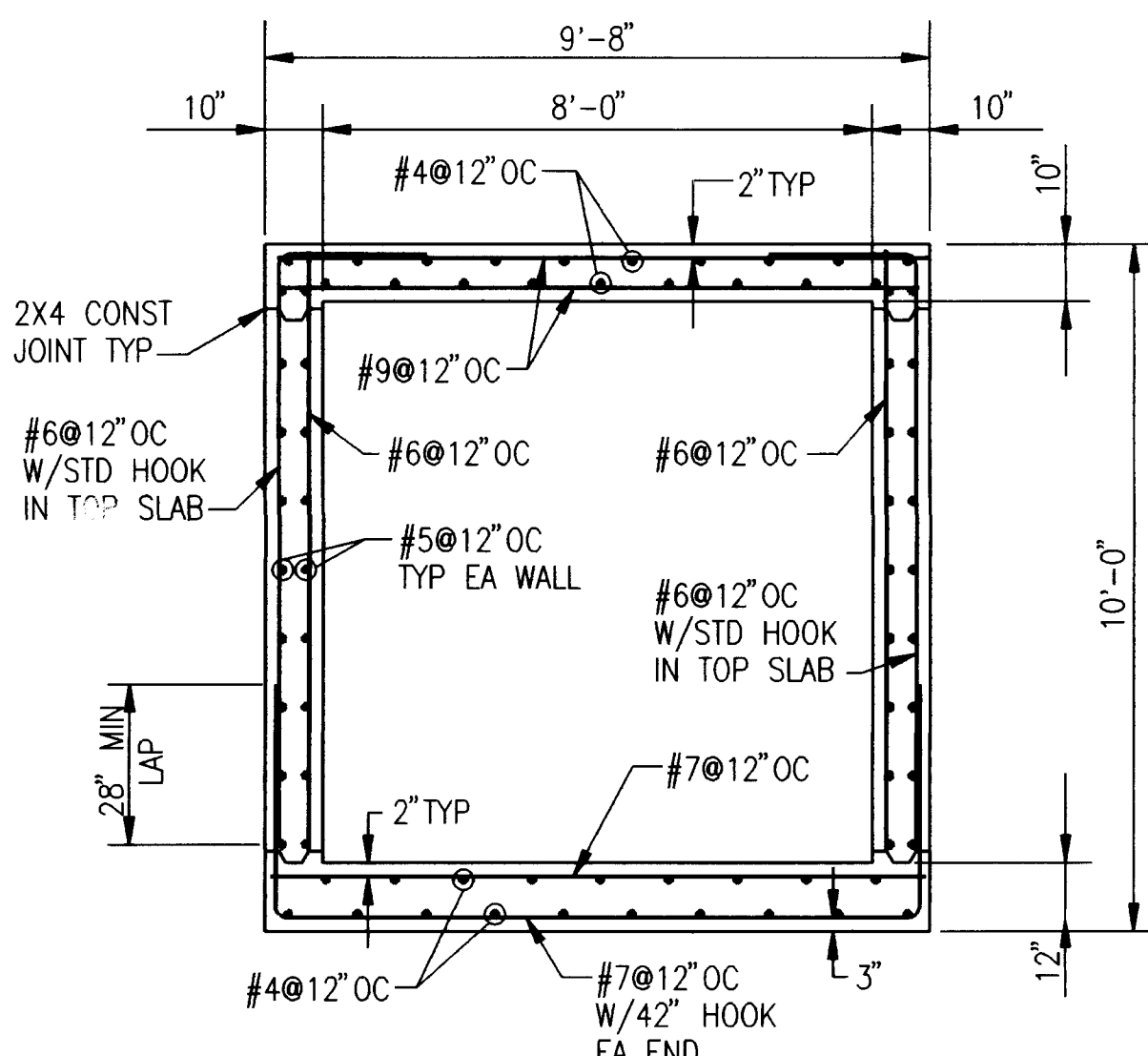
PLAN
SCALE: 3/8" = 1'-0"



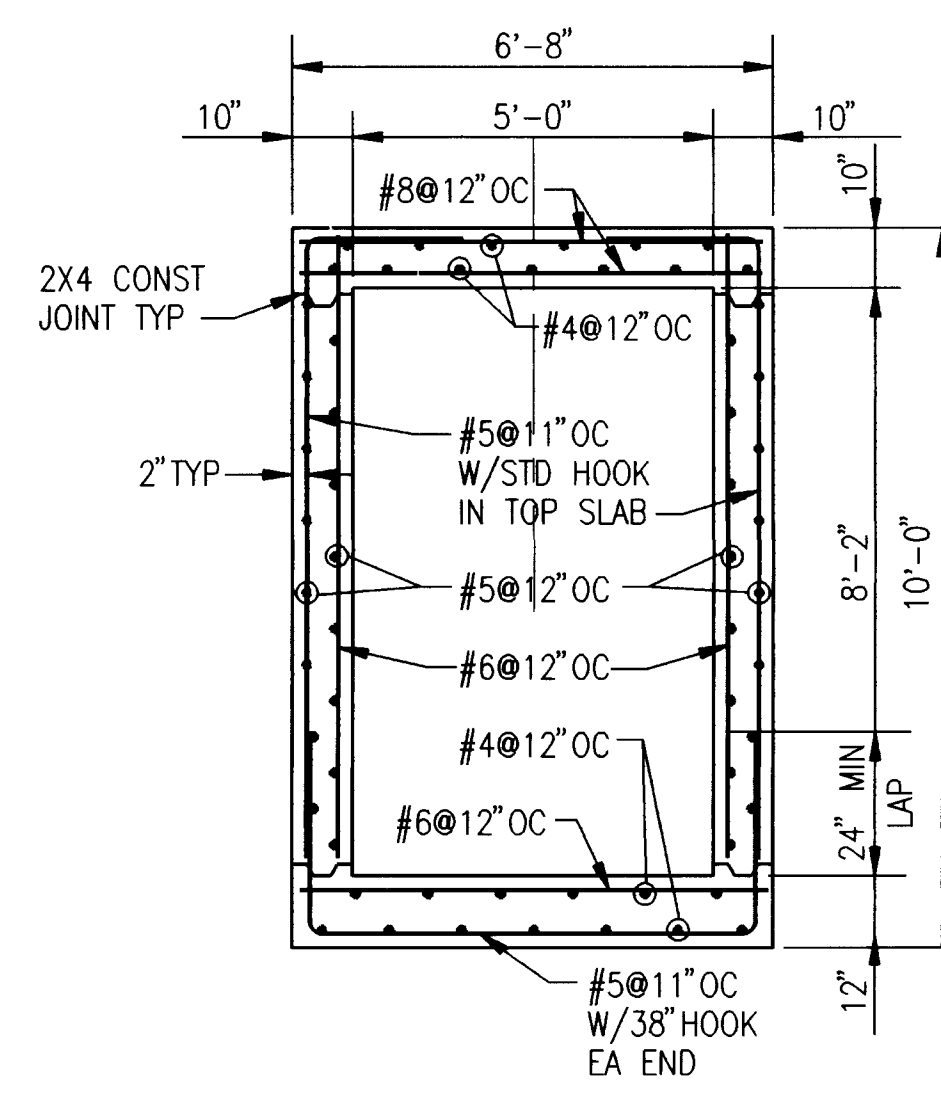
SECTION B
SCALE: 3/8" = 1'-0"



SECTION A
SCALE: 3/8" = 1'-0"



SECTION C
SCALE: 3/8" = 1'-0"



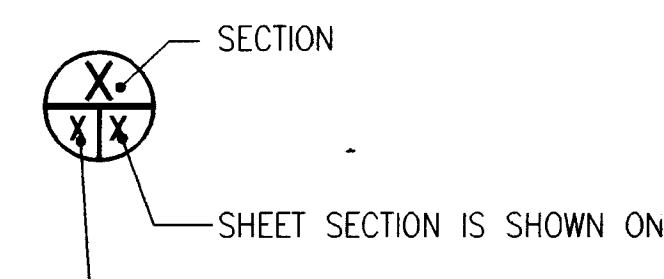
SECTION D
SCALE: 3/8" = 1'-0"

NOTES:
1. RIM ELEVATIONS GIVEN ARE APPROXIMATE. ADJUST TO MATCH FINAL PAVEMENT ELEVATION.

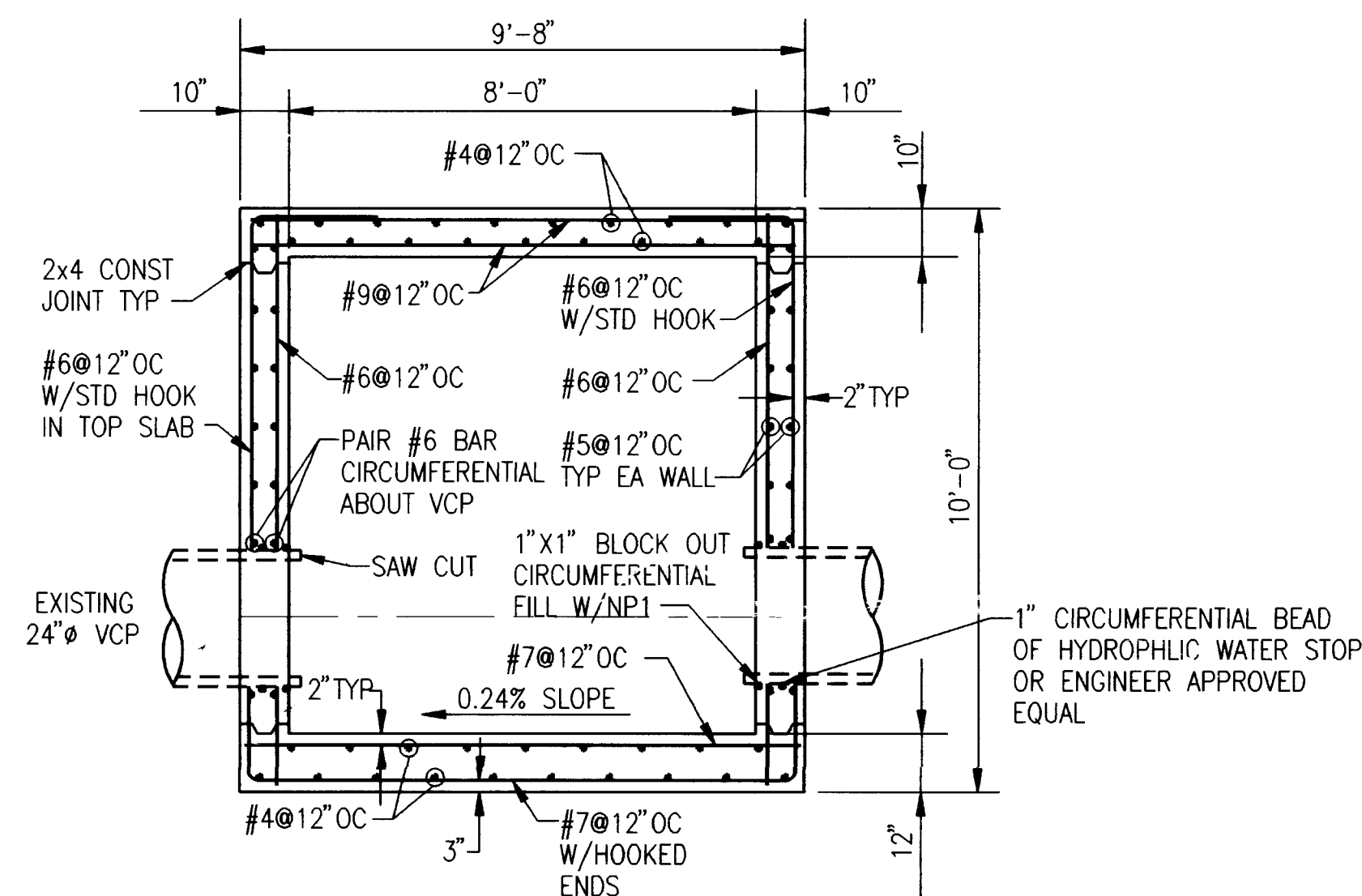
GENERAL STRUCTURAL NOTES

- This work shall be done in accordance with City of Albuquerque Standard Specifications for Public Works Construction.
- CODES AND MANUALS:
Uniform Building Code, 1991 Edition
ACI 318, Latest Edition, Building Code Requirements for Reinforced Concrete.
- DESIGN LOADS:
A. Live Loads:
Soil Weight = 106 pcf
Soil Weight = 106 pcf
Equiv lateral = 32 pcf
B. Maximum Allowable soil bearing pressure: 1500psf
- GENERAL:
A. The Contractor shall verify all dimensions in the field.
B. Shop drawings shall be furnished for review before any fabrication and erection is started. Poorly executed shop drawings shall be rejected and re-submitted.
C. The Contractor shall be responsible for providing safe and adequate shoring for all parts of the wall and adjacent structures during construction, as well as worker safety and compliance with OSHA or other agency safety guidelines.
D. The Contractor shall field verify all existing utility locations and notify the Engineer immediately of any discrepancies.
E. The Contractor is responsible for repair and/or replacement of all utility conduits and existing lines.
F. The contractor shall park equipment and vehicles as not to interfere with normal activities of residents or other Contractors on site.
G. Any damage to existing facilities (curb and gutter, pavement, conduits, landscaping, utilities, etc.) during construction shall be replaced at the Contractors expense.
H. Chamfer all exposed corners 3/4" TYP.
- MATERIALS:
A. Cast-in-Place Concrete:
(1) All concrete shall conform to the City of Albuquerque specifications for Structural Concrete, Section 101 and Table 101.C, Concrete for Sanitary Sewer Structures.
B. Reinforcing Steel:
(1) All reinforcing steel shall conform to ASTM A615 Grade 60.
(2) Reinforcing shall be stored in such a manner as to inhibit rusting or the deposit of oils or other bond inhibiting deposits.
(3) Reinforcing steel shall be fabricated and placed in accordance with the Building Code Requirements for Reinforced Concrete (ACI 318) and the CRSI Standard Manual.
(4) Bar supports and spacers for rebar shall be provided in accordance with ACI and CRSI.
(5) All lap splices shall be class B.
(6) Concrete cover for reinforcing shall be as follows:
a. Concrete poured against earth 3 inches
b. Concrete poured in forms but exposed to weather or earth:
1. If bars are larger than No. 5 2 inches
2. If bars are No. 5 or smaller 1-1/2 inches
(7) The Contractor shall be responsible to see that all rebar is properly aligned and tied in place before placing concrete. All column, wall dowels and vertical steel shall be accurately located and secured in place so that it remains in the position shown during the concrete placing operation. Any rebar found to be improperly installed shall be removed at no additional cost to the Owner.
(8) Form ties shall be either of the threaded or snap-off type or other approved equal so that no metal will be left within 1 inch of the surface of the wall. Following removal of form ties, recesses are to be carefully filled and pointed with mortar.
(9) Exposed wall surfaces shall be finished with Class I Ordinary Surface Finish

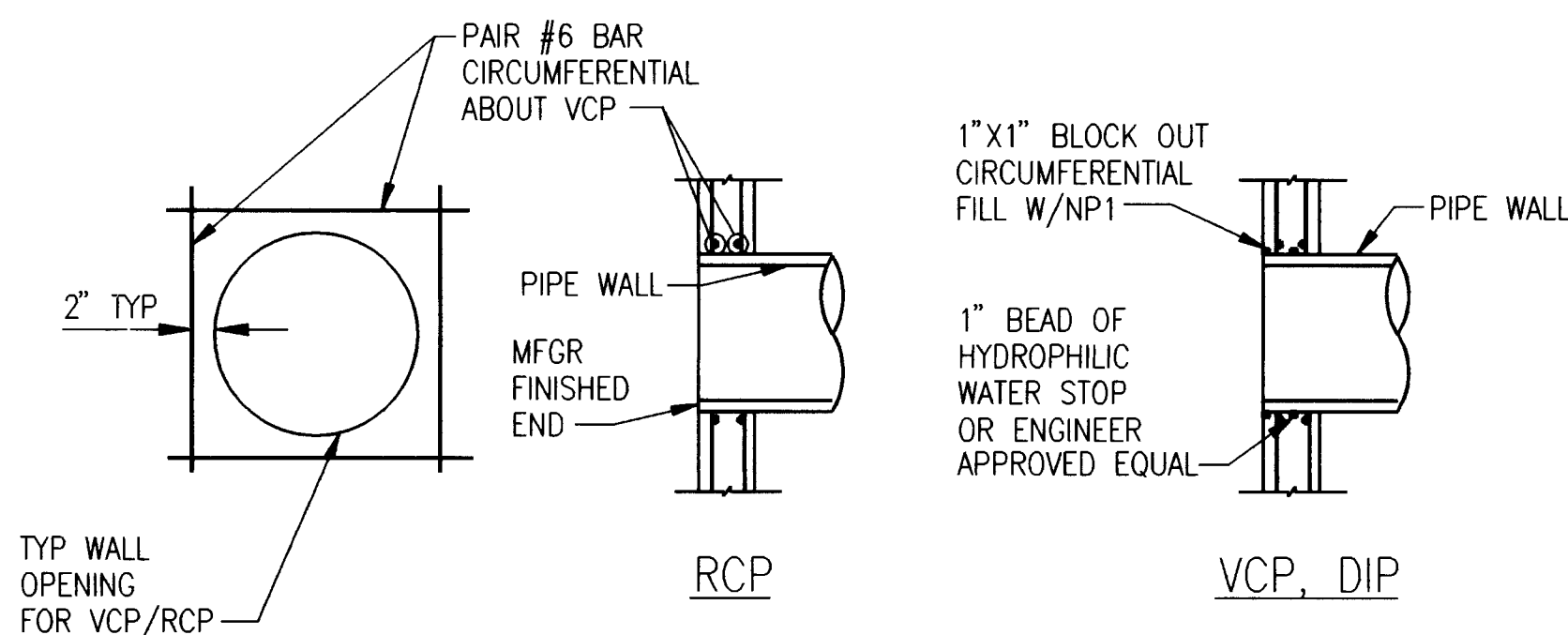
26-4779-93 10/95



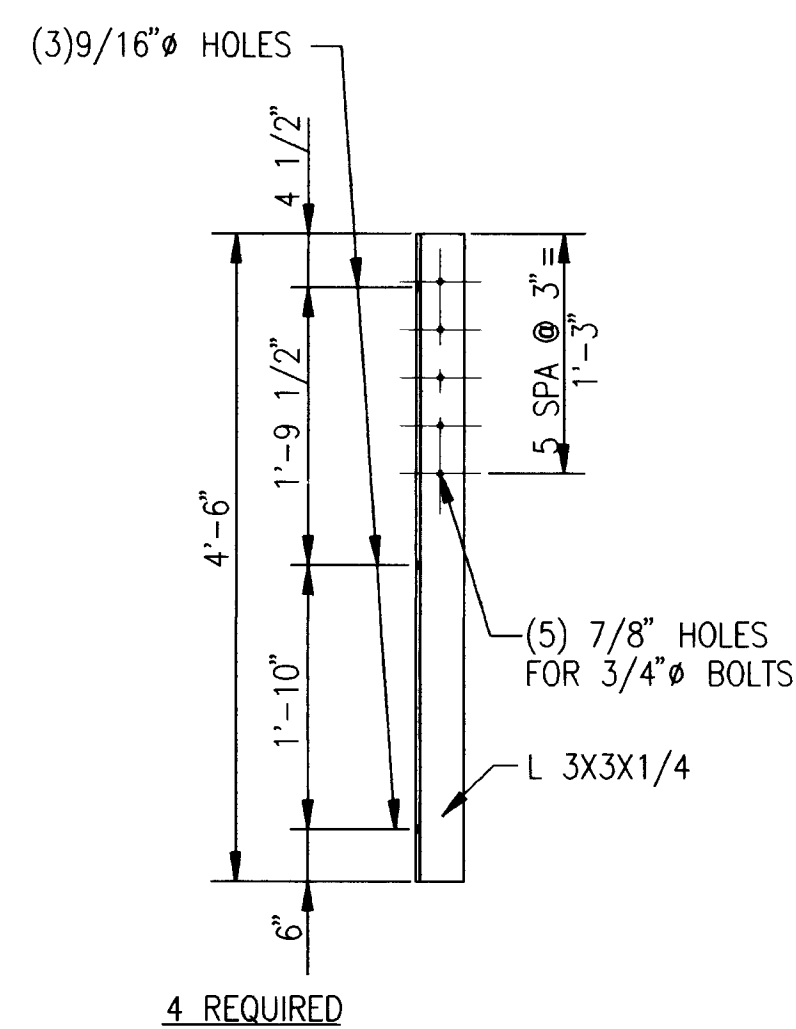
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT			
INTEL (SANITARY SEWER) WESTERN TRAIL (PHASE II)			
APPROVALS	ENGINEER	DATE	APPROVED
DRC CHAIRMAN	<i>[Signature]</i>	11/18/94	WATER
TRANSPORTATION	<i>[Signature]</i>	8-05-94	WASTE WATER
HYDROLOGY	<i>[Signature]</i>	8/10/94	
DESIGNED BY	JCA	DATE	4-94
DRAWN BY	LAM	DATE	4-94
CHECKED BY	CAW	DATE	4-94
DRAWING NO. 4779-93		SHEET 10 OF 23	



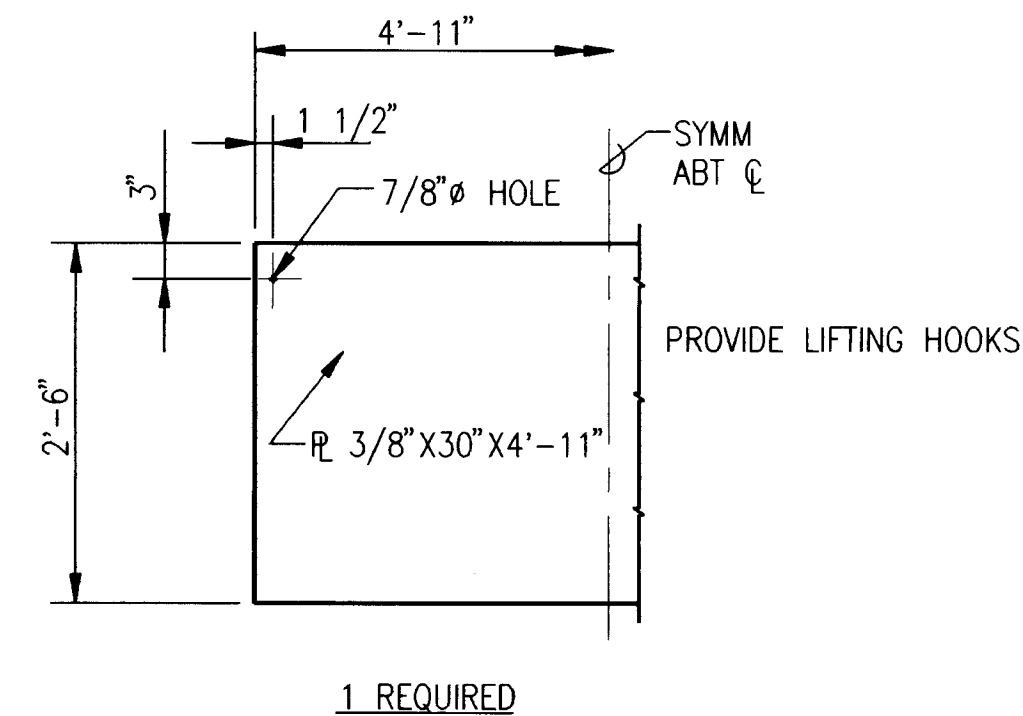
E SECTION
SCALE: 3/8" = 1'-0"



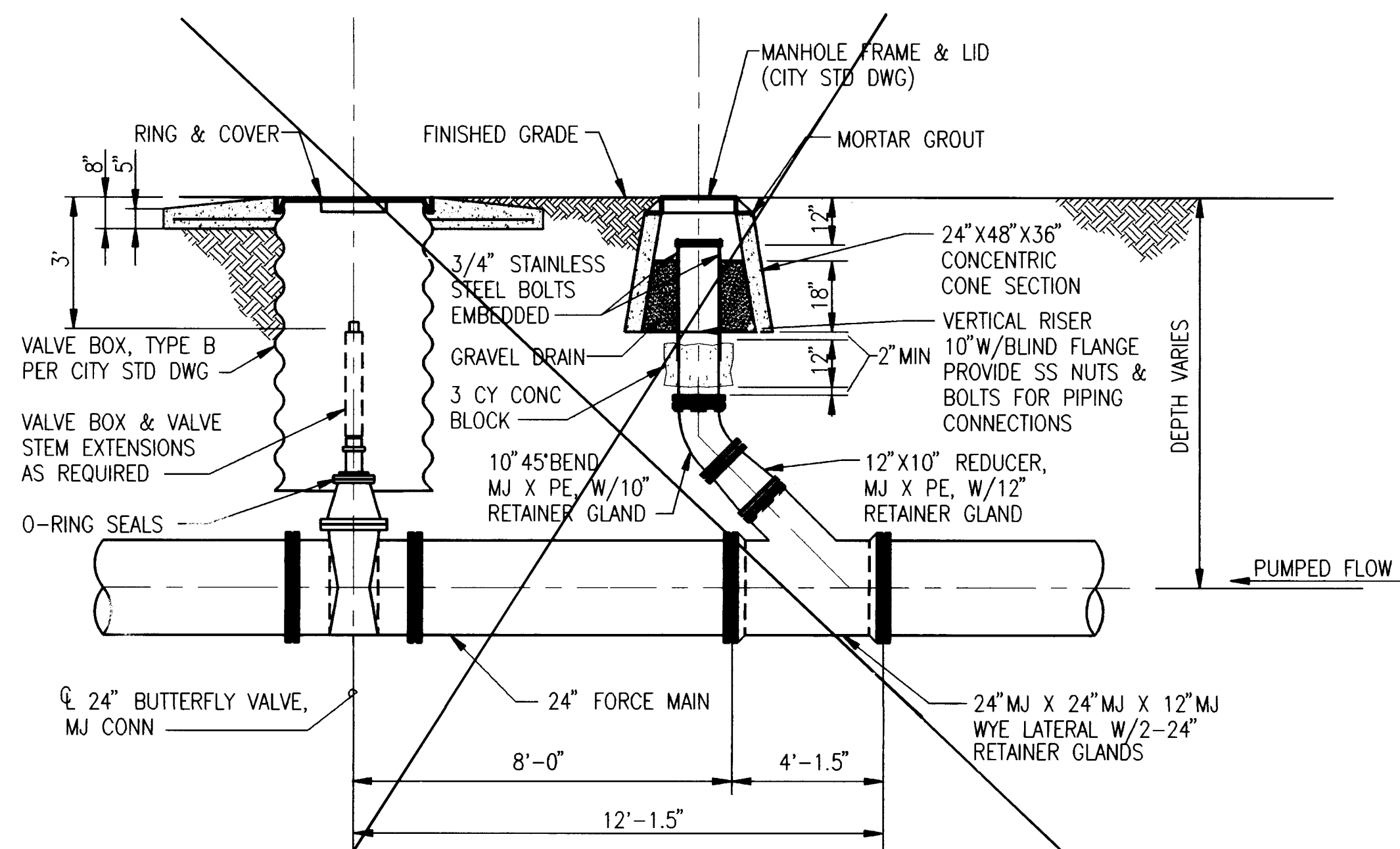
H WALL OPENING DETAILS
SCALE: 3/8" = 1'-0"



F ANGLE GUIDE DETAIL
SCALE: 3/4" = 1'-0"



G PLATE DETAIL
SCALE: 3/4" = 1'-0"



K CLEANOUT AND GATE VALVE DETAIL (future)
NOT TO SCALE

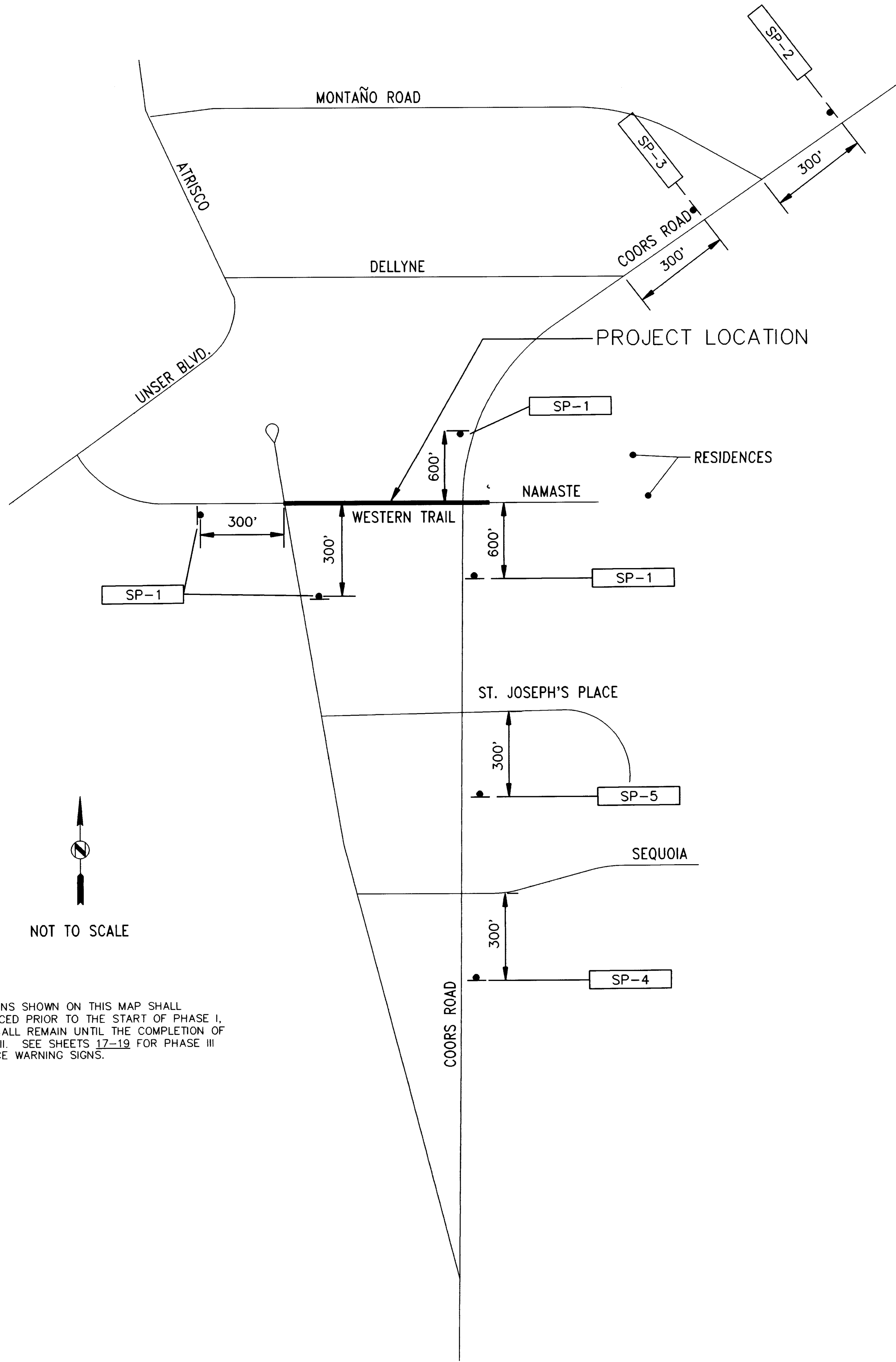
- NOTES:**
- FOR CLEANOUT, PROVIDE REMOVABLE "T" HANDLE BAR LOCKING STYLE MH LID, NEENAH TYPE J OR EQUAL.
 - COST OF BAFFLE PLATE AND ANGLE GUIDE IS INCIDENTAL TO THE COST OF THE JUNCTION BOX.

26-47779-193 11/95

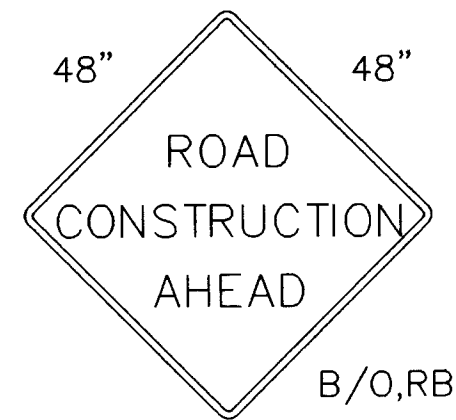
SECTION
SHEET SECTION IS SHOWN ON
SHEET SECTION IS CUT ON

AS-BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	WORKED BY	INSPECTED BY	ACCEPTANCE BY	DATE	NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE	NO.	BY
THE BENCH MARK IS A 3-1/4" ALUMINUM CAP SET FLUSH ON THE MEDIAN AND IS STAMPED "ACS NM448-NSB 1986". THE BENCH MARK IS LOCATED AT THE INTERSECTION OF WESTERN TRAIL/ NAMASTE RD. AND COORS RD. NW ON THE NORTH ISLAND OF COORS RD.															
MICRO-FILM INFORMATION															
RECORDED BY	NO.														
ELEVATION = 5106.31															

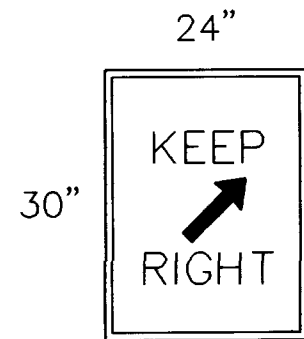
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING				INTEL SANITARY SEWER - WESTERN TRAIL (PHASE II) MISCELLANEOUS DETAILS			
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE		
DRC CHAIRMAN	B.G. Boudry	11-18-94	WASTE	Ryan Shree	11/21/94		
TRANSPORTATION	M.P. RHO	8-05-99	WASTE WATER	"	"		
HYDROLOGY	NA COM	8/2/04					
DRAWING NO.	47779-3	MAP NO.	F-11,12	SHEET:	11 OF 23		



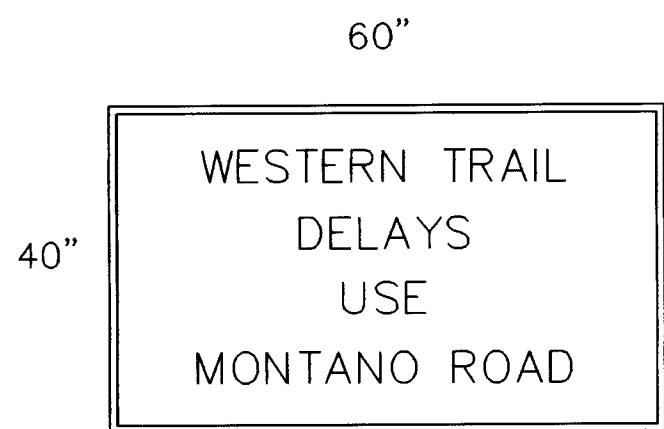
OVERALL TRAFFIC CONTROL MAP



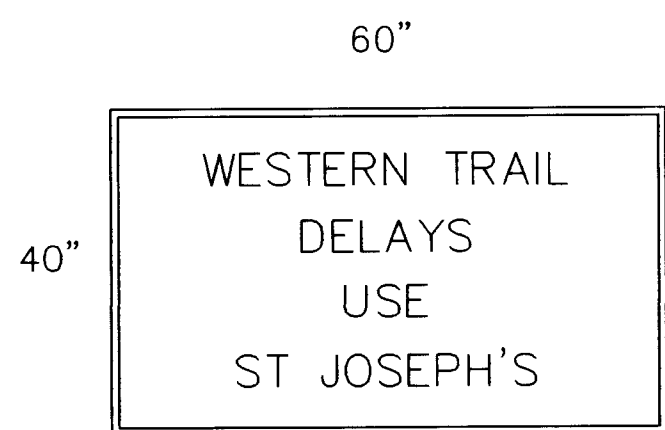
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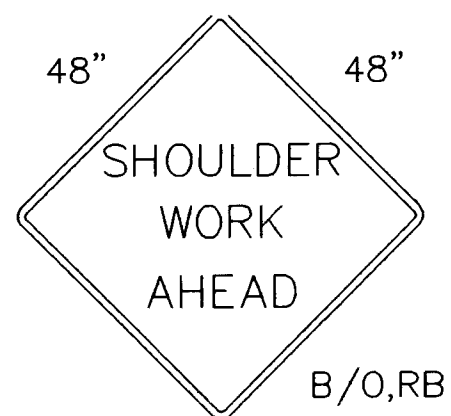
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R4-7b-24



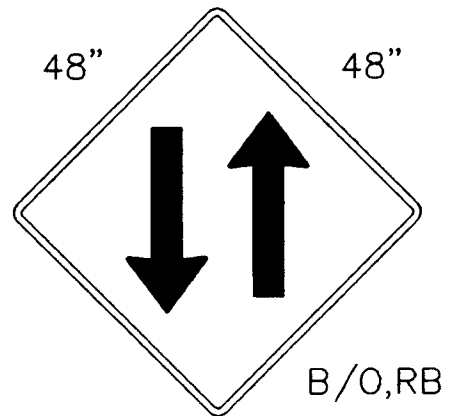
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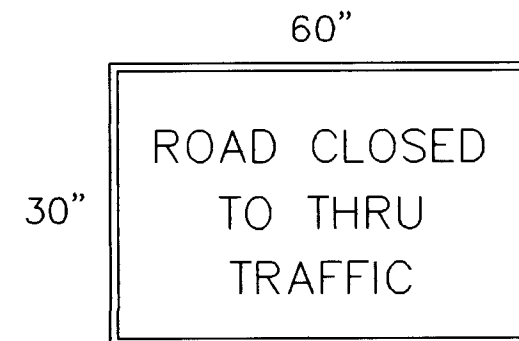
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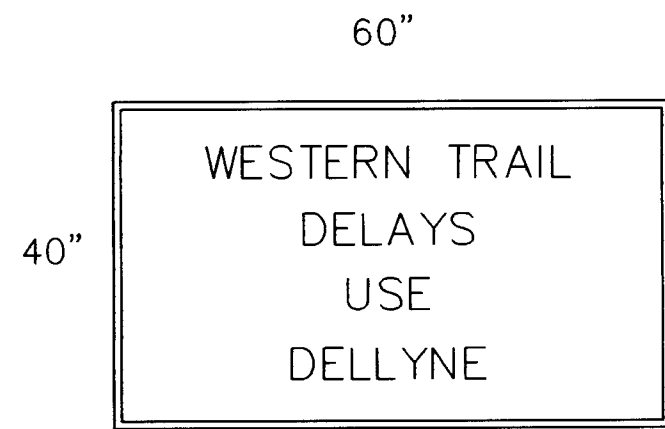
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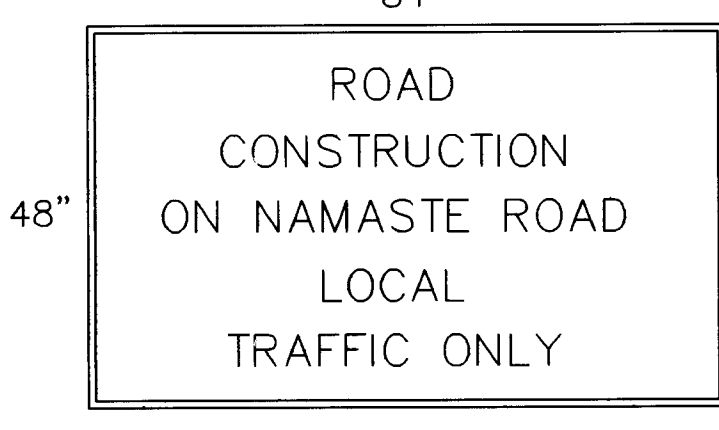
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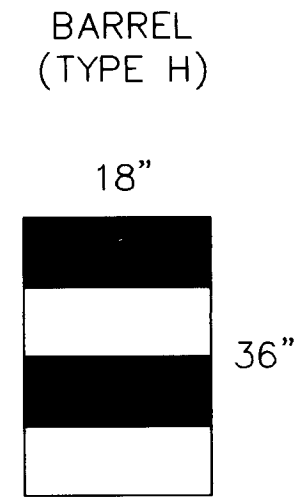
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R11-4-60



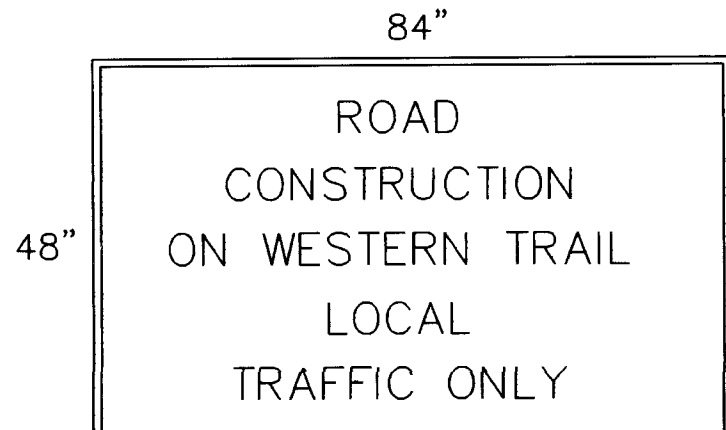
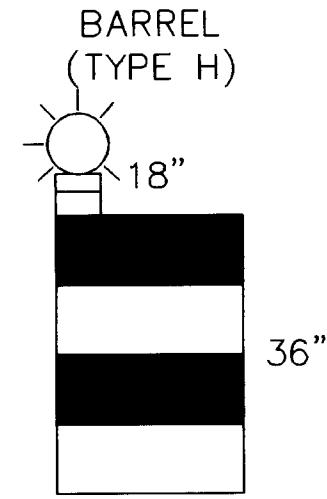
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SP-3



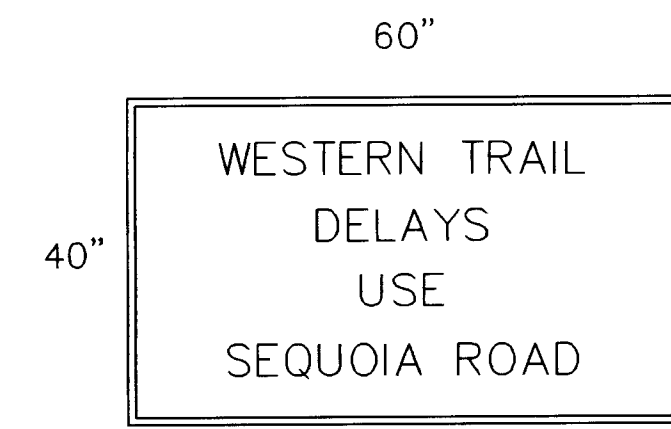
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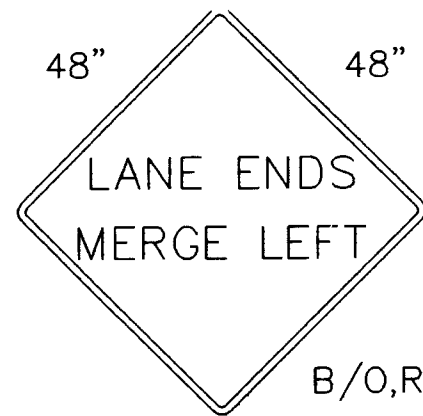
TYPE "B" BARRELS SHALL BE BALLASTED WITH SAND BAGS.
A MAXIMUM OF 100 LBS. OF BALLAST SHALL BE USED.
REFLECTIVITY III SHEETING SHALL BE USED ON TYPE
"H" BARRELS. FOR NIGHT TIME USE, WARNING LIGHTS
WILL BE REQUIRED ONLY ON CHANNELIZING TAPERS.



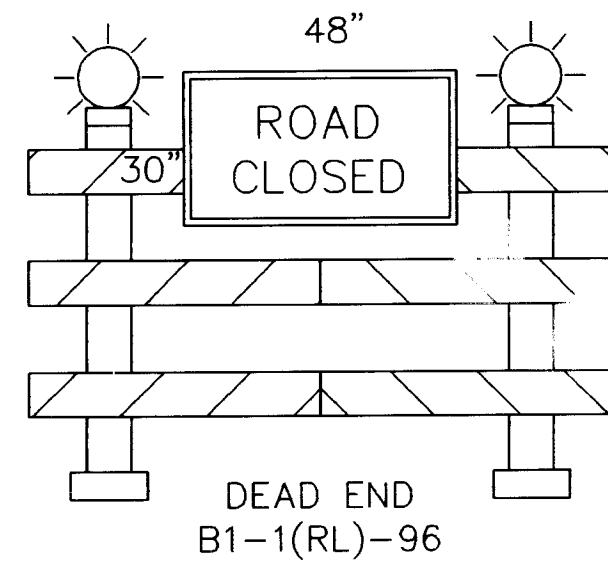
B/O,RB
SP-1



B/O,RB
SP-4



W9-2L-48



8 FT. TYPE III BARRICADES

(COST OF R11-2-48 SHALL BE INCLUDED IN UNIT
BID PRICE FOR BARRICADE)

BH JOB NO. 4779.93

SEQUENCE OF CONSTRUCTION

- PHASE I
- KEEP TRAFFIC ON EXISTING WESTERN TRAILS PAVING. (SEE SHEETS 13-14).
 - BUILD ARTERIAL PAVEMENT ON NORTH SIDE OF WESTERN TRAIL (SEE SHEETS 20-21).

- PHASE II
- DIVERT TRAFFIC TO NEW PAVEMENT CONSTRUCTED IN PHASE I.
BUILD NEW SAS LINES IN WESTERN TRAIL.
 - SEE SHEETS 15-16 FOR DETAILS.

- PHASE III
- CLOSE NORTH SIDE OF NAMASTE ROAD.
BUILD NEW SAS ACROSS COORS.
 - SEE SHEETS 17-19 FOR DETAILS.

GENERAL NOTES

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

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
24-4779.93 1/2/94

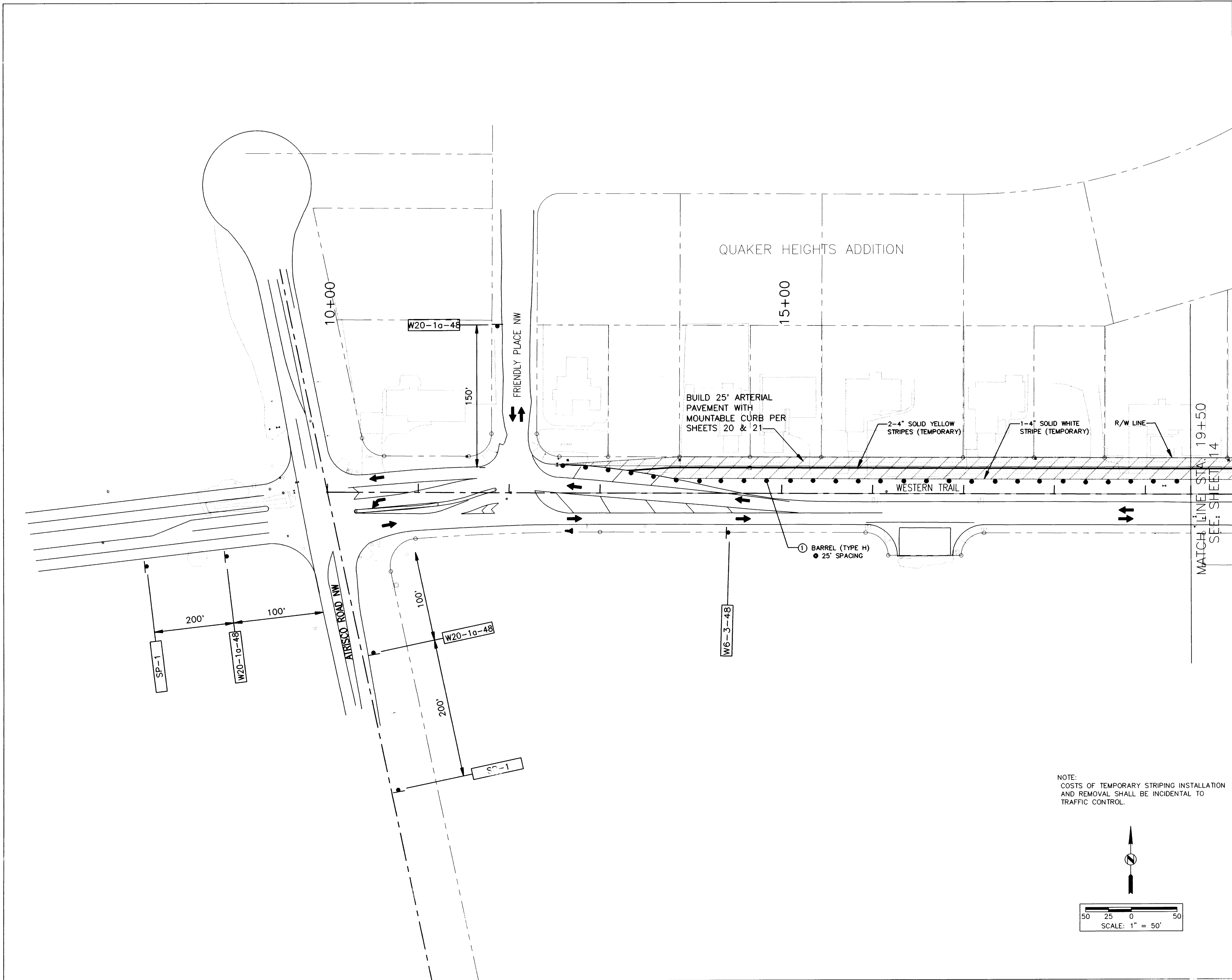


CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING



APPROVALS				APPROVALS			
TC CHAIRMAN	DATE	ENGINEER	DATE	WATER	ENGINEER	DATE	DATE
TRANSPORTATION	8-05-94	8-05-94	8-05-94	WASTE WATER	8-05-94	8-05-94	8-05-94
HYDROLOGY	8-05-94	8-05-94	8-05-94	CE	8-05-94	8-05-94	8-05-94
DRAWING NO.	4779.93	MAP NO.	F-11,12	SHEET	2	OF	23

SCANNED BY
BY LASON



PHASE 1 NOTES

- KEEP TRAFFIC ON EXISTING WESTERN TRAIL PAVING (SEE SHEETS 13-14).
- BUILD ARTERIAL PAVEMENT ON NORTH SIDE OF WESTERN TRAIL (SEE SHEETS 20-21).
- INSTALL TEMPORARY DOUBLE 4" YELLOW STRIPING AND 4" WHITE STRIPING ON NEW PAVING.

LEGEND

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

ENGINEER'S SEAL

20-4779-97 11/95

BY: [Signature] DATE: 4-94

REMARKS: REVISIONS DESIGN

DESIGNED BY: [Signature] FT DATE: 4-94

DRAWN BY: [Signature] LH DATE: 4-94

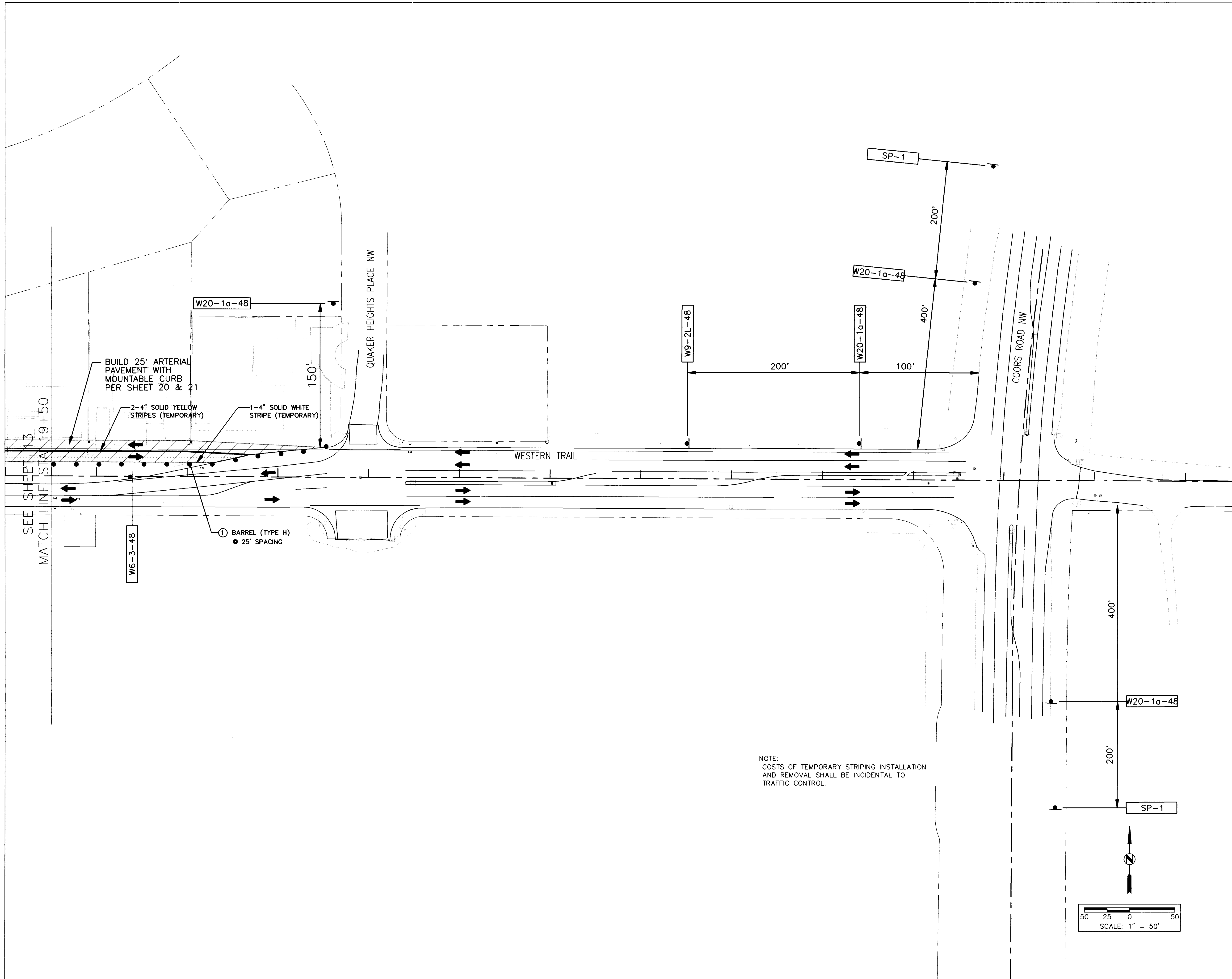
CHECKED BY: [Signature] DG DATE: 4-94

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

WITEL SANITARY SEWER - WESTERN TRAIL (PHASE II)
TRAFFIC CONTROL PLAN

APPROVAL	ENGINEER	DATE	ENGINEER	DATE
DRC CHAIRMAN	[Signature]	11-18-94	[Signature]	11/18/94
TRANSPORTATION	[Signature]	8-05-94	WASTE WATER	[Signature]
HYDROLOGY	[Signature]	9/10/94	CE	[Signature]

DRAWING: 4/79-03 MAP: F-11,12 SHEET: 13 OF 23



NOTE:
COSTS OF TEMPORARY STRIPING INSTALLATION
AND REMOVAL SHALL BE INCIDENTAL TO
TRAFFIC CONTROL.

26-4779.93 11495

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



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING



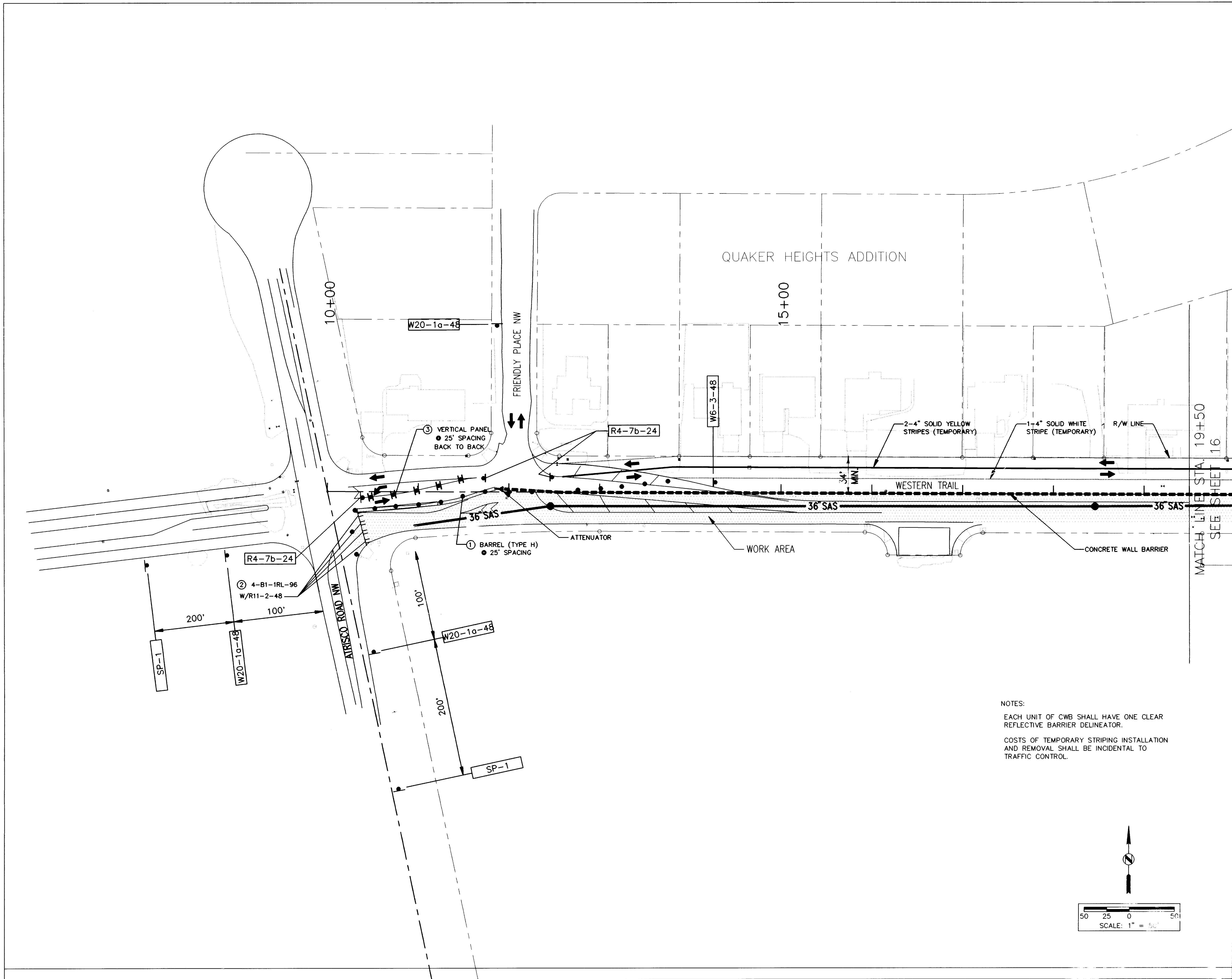
INTERMEDIATE SANITARY SEWER - WESTERN TRAIL (PHASE II)
TRAFFIC CONTROL PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
CHAIRMAN	<i>[Signature]</i>	11/18/94	CHAIRMAN	<i>[Signature]</i>	11/18/94
TRANSPORTATION	<i>[Signature]</i>	8-05-99	TRANSPORTATION	<i>[Signature]</i>	"
HYDROLOGY	<i>[Signature]</i>	8/10/94	HYDROLOGY	<i>[Signature]</i>	"

DRAWING NO.	4779.93	MAP NO.	F-1, 12	SHEET	14 OF 23
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SCANNED BY
BY LASON

SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
NO.	BY	DATE	THE BENCH MARK IS A 3-1/4" ALUMINUM CAP SET FLUSH ON THE MEDIAN AND IS STAMPED "ACS NM448-NSB 1986". THE BENCH MARK IS LOCATED AT THE INTERSECTION OF WESTERN TRAIL/ NAMASTE RD. AND COORS RD. NW ON THE NORTH ISLAND OF COORS RD.	CONTRACTOR	NO.
				SIGNED BY	
				INSPECTOR'S	
				ACCEPTANCE BY	DATE
				VERIFICATION BY	DATE
				DRAWINGS	DATE
				REVISIONS	DATE
				MICRO-FILM INFORMATION	DATE
				RECORDED BY	DATE
				ELEVATION = 5106.31	NO.



PHASE II NOTES

1. REMOVE CONFLICTING STRIPING AT ATRISCO/WESTERN TRAIL AND FRIENDLY PLACE/WESTERN TRAIL. PROVIDE NEW STRIPING TO CONNECT DETOUR TO EXISTING PAVEMENT.
2. DIVERT TRAFFIC ONTO NEW ARTERIAL PAVEMENT. CLOSE SOUTH SIDE OF WESTERN TRAIL. BUILD NEW SAS LINE IN WESTERN TRAIL.

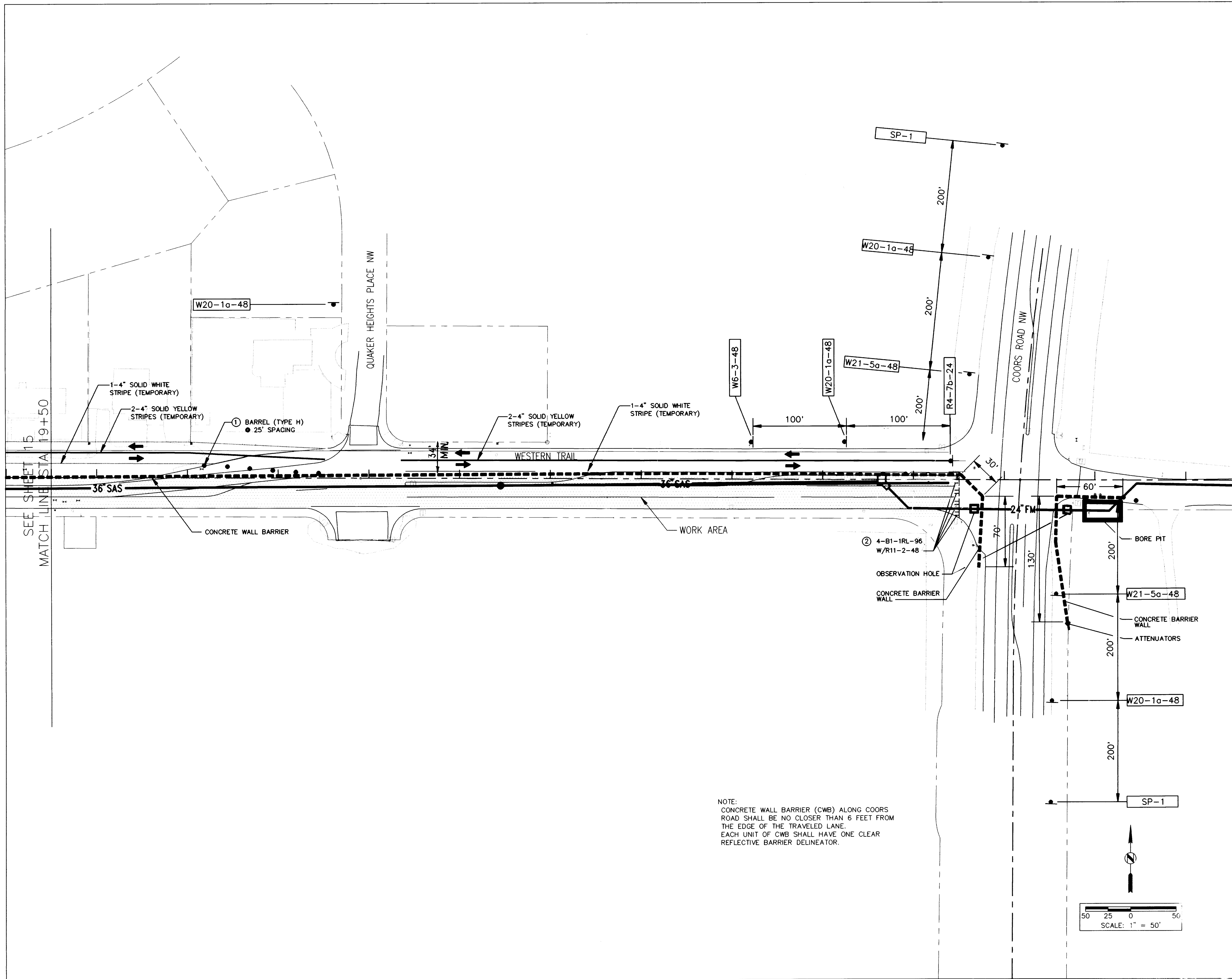
AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	NO.	THE BENCH MARK IS A 3-1/4" ALUMINUM CAP SET FLUSH ON THE MEDIAN AND IS STAMPED "ACS NM448-NSB 1986". THE BENCH MARK IS LOCATED AT THE INTERSECTION OF WESTERN TRAIL/ NAMASTE RD. AND COORS RD. NW ON THE NORTH ISLAND OF COORS RD.	DATE	NO.	BY	NO.	DATE
INSPECTOR'S ACCEPTANCE BY	DATE						
VERIFICATION BY	DATE						
DRAWING NO.	DATE						
DRAWING DATE	DATE						
MICRO-FILM INFORMATION	NO.						
RECORDED BY	DATE						
NO.							

26-4779-193 11595

LEGEND

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

OF ALBUQUERQUE WORKS DEPARTMENT			
INTEL. CONTROL PLAN PHASE II			
APPROVALS	DATE	APPROVALS	DATE
DRC CHAIRMAN	8/9/94	ENGINEER	8/9/94
TRANSPORTATION	8-0599	WATER	
HYDROLOGY	8/9/94	WASTE WATER	
DRAWING NO.	4/79.93	MAP NO.	11-12
SHEET: 15		OF 23	



ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
DATE		FIELD NOTES		DATE		DATE	
BY		NO.		NO.		NO.	
20-4779-93		1695		1695		1695	
REMARKS		REVISIONS		REVISIONS		REVISIONS	
DESIGNED BY		DRAWN BY		CHECKED BY		DATE	
DATE		DATE		DATE		DATE	
4-94		4-94		4-94		4-94	

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

INTEL SANITARY SEWER - WESTERN TRAIL (PHASE II)
AFFIDAVIT OF CONSTRUCTION

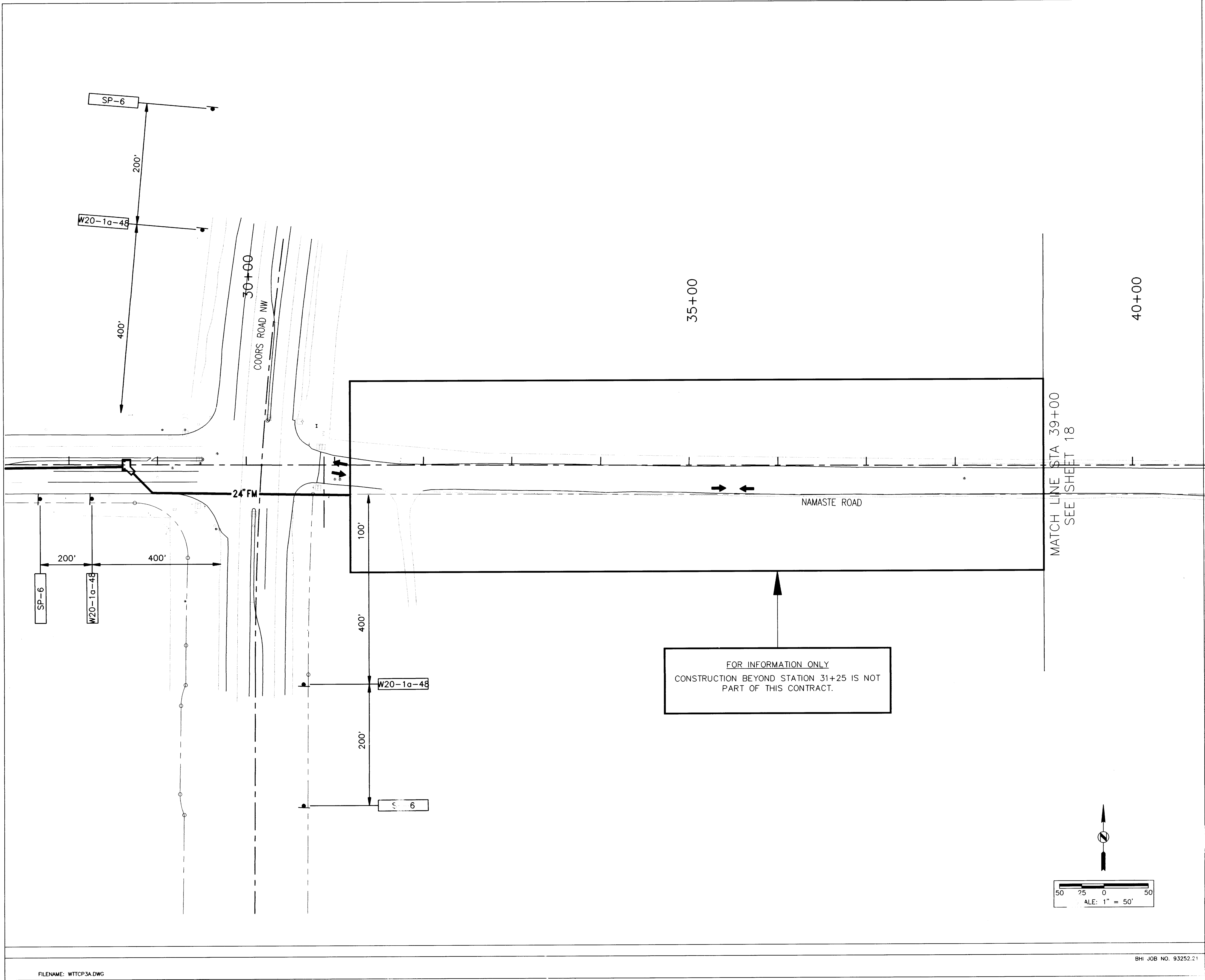
PHASE II

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	NA	11-18-94	WASTE WTLR	NA	11-18-94
TRANSPORTATION	NA	8-05-94	WASTE WTLR	NA	8-05-94
HYDROLOGY	NA	8-05-94	WASTE WTLR	NA	8-05-94

DRAWING NO. 4779-93

M/P NO. F-112

SHEET 6 OF 23



PHASE III NOTES

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

ENGINEER'S SEAL

26-4779.93 1795

LEGEND

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

CITY OF BOQUERONE
WORKS DEPARTMENT
INTEL SANITARY WESTERN TRAIL (PHASE II)
SIGNAL PLAN

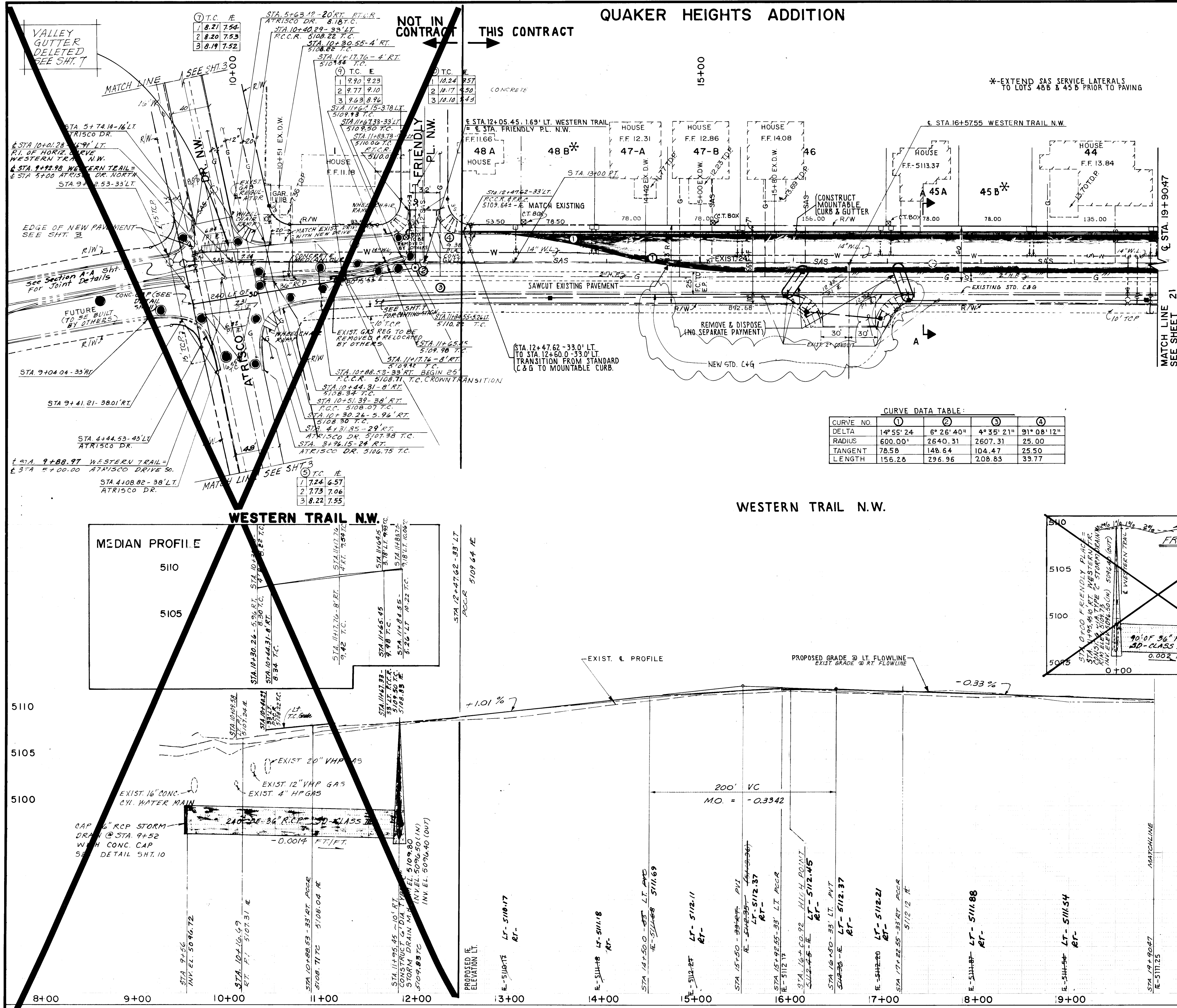
APPROVALS	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	BA [Signature] 11-18-94			
TRANSPORTATION	WA 240 8-05-94	WATER		
HYDROLOGY	WA 240 8/10/94			

NO.	DATE	REMARKS	BY
		DESIGN	
		REVISIONS	

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
	4-94	LAM	4-94		4-94

AS-BUILT INFORMATION	
CONTRACTOR	NO.
DATE	
INSPECTOR'S	DATE
ACCEPTANCE BY	DATE
VERIFICATION BY	DATE
DATE	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	NO.

SCANNED BY LASON



CURVE DATA TABLE:

CURVE NO.	1	2	3	4
DELTA	14° 55' 24"	6° 26' 40"	4° 35' 21"	91° 08' 12"
RADIUS	600.00'	2640.31	2607.31	25.00
TANGENT	78.58	148.64	104.47	25.50
LENGTH	156.26	296.96	208.83	33.77

SCALE: Horz. 1" = 50'
Vert. 1" = 5'

LEGEND

- MOUNTABLE C&G
- NEW PAVEMENT
- MATCH EXISTING

NOTES

- UTILITY LOCATION IS APPROXIMATE. BEFORE COMMENCING ANY EXCAVATIONS, ALL EXISTING UTILITY LINES MUST BE FIELD LOCATED AND VERIFIED BY PROPER UTILITY OWNERS BY CALLING THEM TWO WORKING DAYS IN ADVANCE.
- EXIST. TRAFFIC SIGNAL PULL BOX UNLESS OTHERWISE LABELED.
- SEE TYPICAL SECTIONS FOR MATERIAL TYPES.
- CABLE BOX LOCATIONS ARE GENERAL AND FOR CONTRACTOR'S INFO ONLY.
- DIRT AREAS BEHIND NEW CURB WILL BE BROUGHT TO GRADE & COMPACTED. COST IS INCIDENTAL TO CURB & GUTTER.
- FILL MATERIAL NEEDED AS SUBGRADE OF PAVEMENT SECTION SHALL BE INCIDENTAL TO COST OF PAVING.

AS BUILT INFORMATION

CONTRACTOR	DATE
WORKED BY	
INSPECTOR'S	
FIELD	
VERIFICATION BY	
DATE	

MICRO-FILM INFORMATION

RECORDED BY	DATE

ENGINEER'S SEAL

20-4779.193-2095

TYPICAL SECTION A-A

ARTERIAL PAVEMENT SECTION

RESIDENTIAL PAVEMENT SECTION

CITY OF ALBUQUERQUE
TRANSPORTATION DEPARTMENT

TITLE: WESTERN TRAIL N.W.
PLAN AND PROFILE

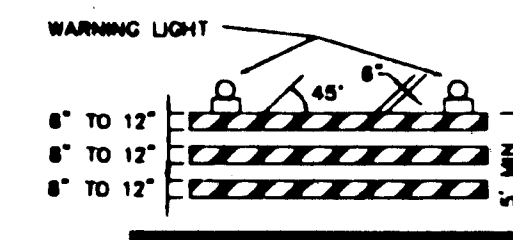
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	3/2/2014	11/18/94	Liquid Waste	3/2/2014	11/18/94
A.C.E. - Design	3/2/2014	8/25/94	Traffic	3/2/2014	8/25/94
A.C.E. - Hydrology	3/2/2014	8/25/94	Water	3/2/2014	8/25/94

DRAWING NO. 4779.93 **MAP NO.** F-11-2 **SHEET** 20 **OF** 23

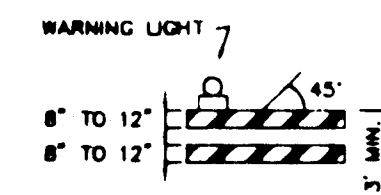
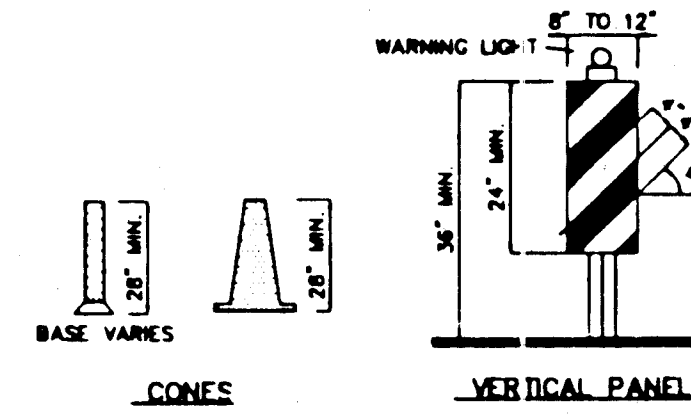
CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

- 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.
- 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.
- 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.
- CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- CONTRACTOR SHALL NOT BEGIN WORK BEFORE 8:30 A.M. OR END WORK AFTER 4:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
- 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.
- 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.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.
- CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.
- 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.
- 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.
- 24 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.
- ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

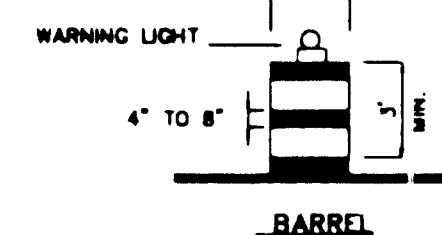
- EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.
- CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
 - STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
 - THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
 - SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.
- 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.
- ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.
- TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.



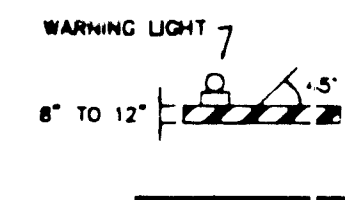
TYPE II BARRICADE



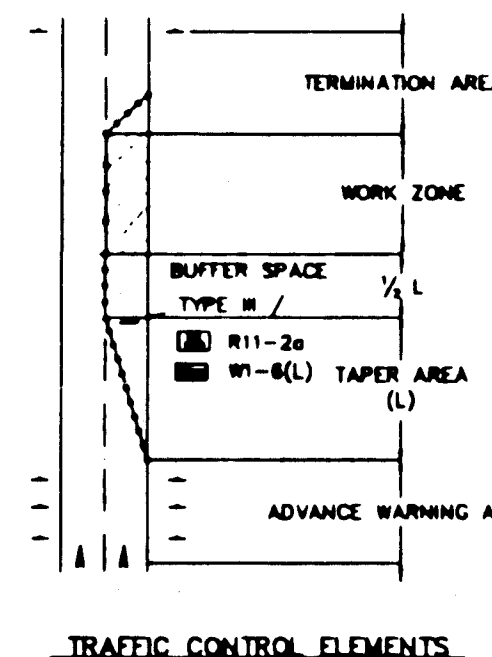
TYPE II BARRICADE



BARREL



TYPE I BARRICADE



TRAFFIC CONTROL ELEMENTS

LEGEND

- WORK AREA
- BARRICADE - TYPE I, TYPE II, OR BARREL
- 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 (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 FOR ADVANCE WARNING SIGN SERIES

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

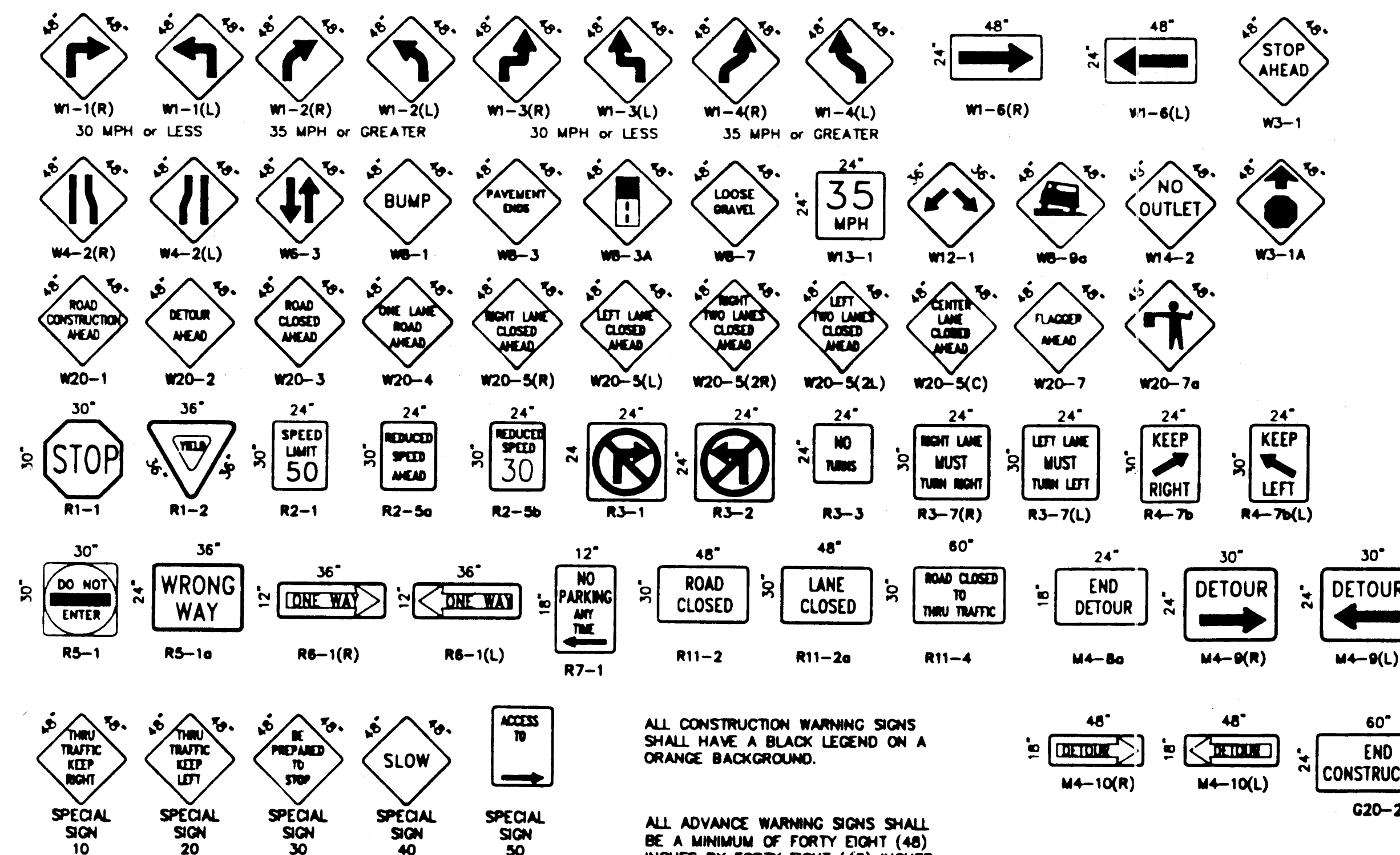
TAPER CRITERIA

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

TAPER LENGTH COMPUTATION

SPEED LIMIT	
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR GREATER	$L = W \times S$
L = TAPER LENGTH	
W = WIDTH OF OFFSET IN FEET	
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH	

SIGN FACE DETAILS



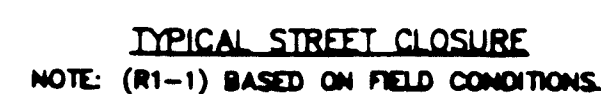
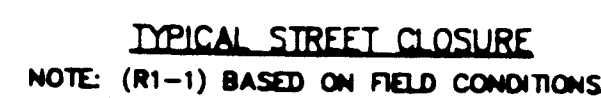
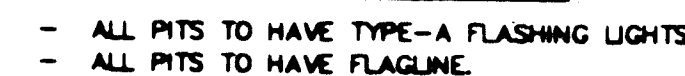
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

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

26-4779.93 2295

AS BUILT INFORMATION			
CONTRACTOR	DATE	REVISIONS	DATE
DESIGNED BY	DATE	REVISIONS	DATE
CHECKED BY	DATE	REVISIONS	DATE
APPROVED BY	DATE	REVISIONS	DATE
MICRO-FILM INFORMATION			
RECORDED BY	DATE	REVISIONS	DATE
INDEXED BY	DATE	REVISIONS	DATE

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE:			
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS			
APPROVALS	ENGINEER	DATE	APPROVALS
DRG CHAIRMAN	R. P. Bailey	11/19/94	WATER
TRANSPORTATION	N. B. RHO	8-05-94	WASTE WATER
HYDROLOGY	A. A. LAM	8/10/94	
PROJECT NO.	4779.93	MAP NO.	
SHEET	22	OF	23



SCANNED BY
BY LASON