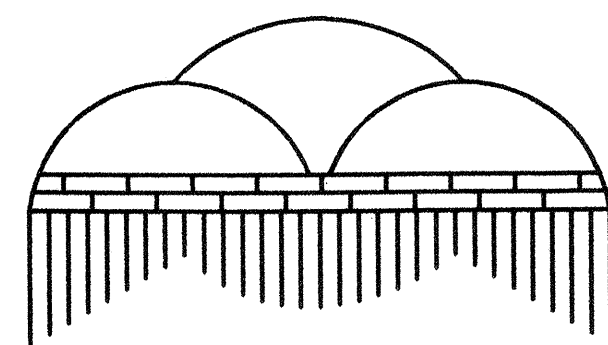
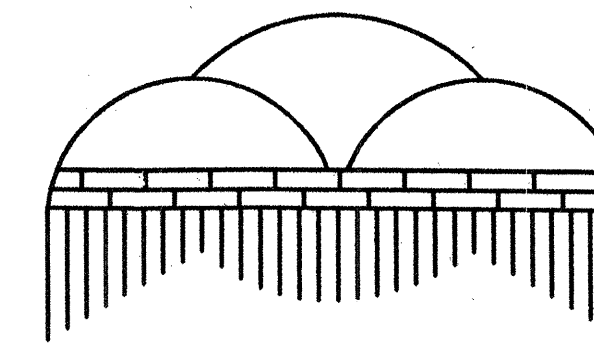
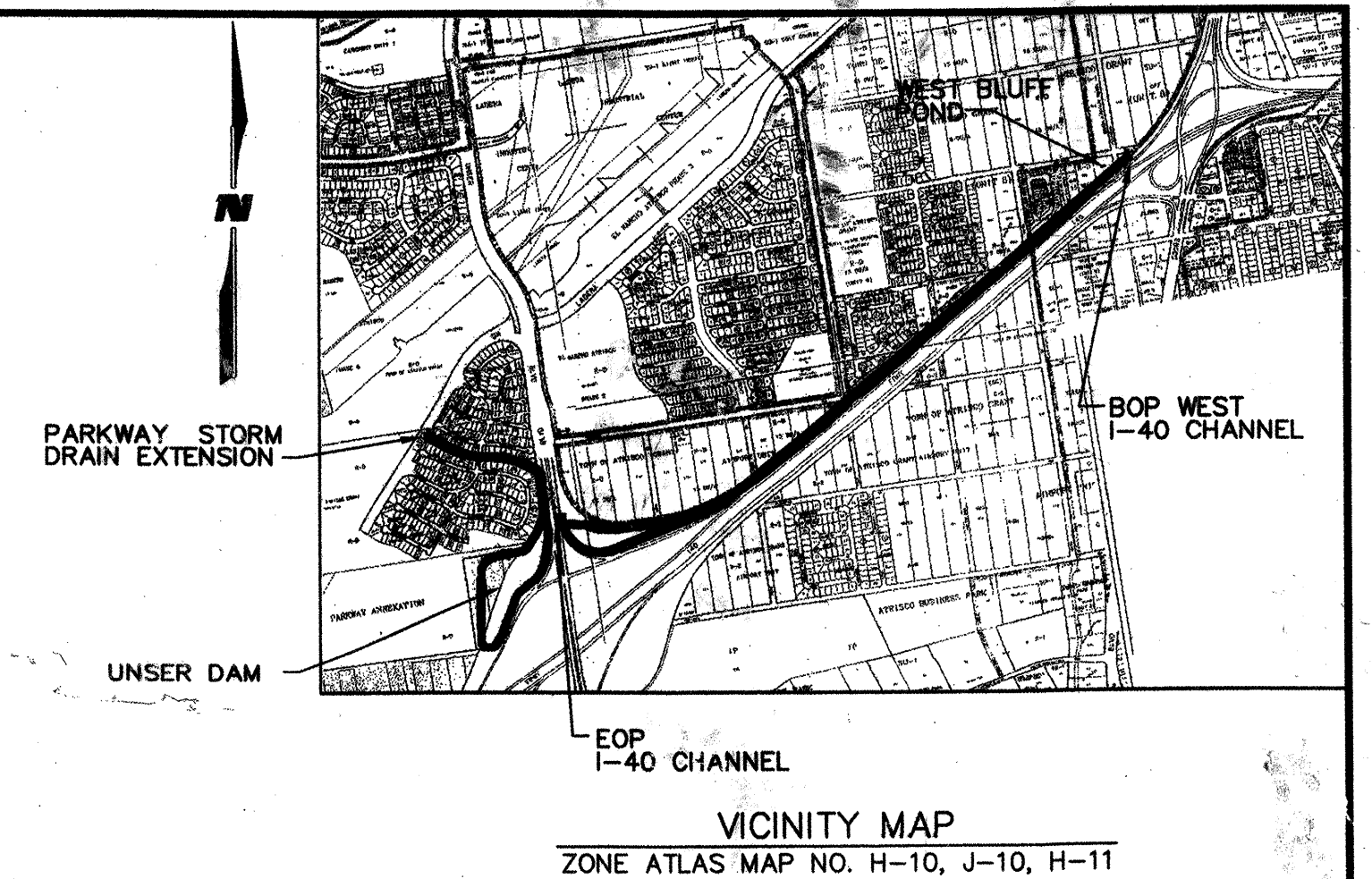




ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY



CONSTRUCTION PLANS FOR WEST I-40 DIVERSION CHANNEL



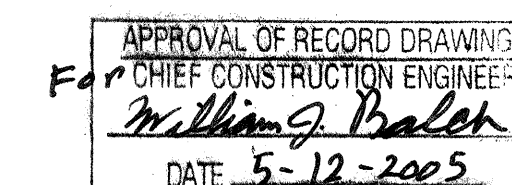
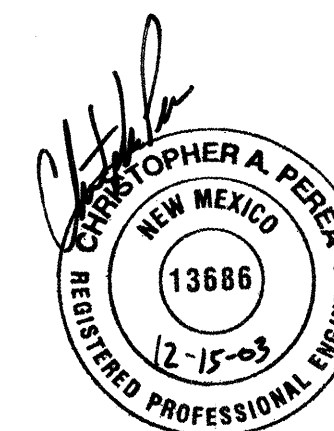
UTILITY WORK AT 64th STREET

INDEX

DESCRIPTION	SHEET NO.
COVER SHEET	1
OVERALL PROJECT MAP	2
GENERAL NOTES AND SUMMARY OF QUANTITIES	3
DEMOLITION PLAN	4
64th STREET PAVING PLAN	5
64th STREET SAS CONNECTION	6
ILIFF ROAD 24" SAS RELOCATION	7
TRAFFIC CONTROL SHEETS	8-9
JUNCTION BOX DETAILS	10-11

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Chris A. Perea of the firm of Wilson & Company, a Registered Professional Engineer in the state of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of the project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the city engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This certification is based on the site inspections by me or personnel under my direction and survey information provided by S.L. Youtsey, NMPS number 7248.



RECORD DRAWING
DATE 12-2003

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

APPROVED FOR BIDDING

John P. Kelly 6-10-2003
JOHN P. KELLY, P.E.
EXECUTIVE ENGINEER
ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

APPROVED FOR CONSTRUCTION

John P. Kelly 7-17-2003
JOHN P. KELLY, P.E.
EXECUTIVE ENGINEER
ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

LEGEND

EXISTING	PROPOSED
SAS	SANITARY SEWER
WL	WATER LINE
G	GAS LINE
SD	STORM DRAIN
T	TELEPHONE LINE
UT	UNDERGROUND TELEPHONE LINE
UE	UNDERGROUND ELECTRICAL LINE
TL	TRAFFIC SIGNAL CONDUIT
==	CURB & GUTTER
□	TELEPHONE BOX
—	EXISTING GROUND CENTER LINE
○	MANHOLE
⊗	WATER VALVE
WM	WATER METER
—	SAS SERVICE W/ CAP
—	STORM INLET
—	FIRE HYDRANT
PP	POWER POLE
PB	PULL BOX
○	LIGHT POLE
⊗	TREE/SHRUB
5094	INTERMEDIATE CONTOUR
5095	INDEX CONTOUR
—	PAVEMENT REMOVAL
—	BARBED WIRE FENCE
—	WOODEN FENCE
—	CHAINLINK FENCE
—	SANITARY SEWER
W	WATER LINE
G	GAS LINE
SD	STORM DRAIN
—	ELECTRICAL CONDUIT
—	WHEELCHAIR RAMP
—	CROWN REDUCTION
—	SIDEWALK
EOP	EDGE OF PAVEMENT
FOC	FACE OF CURB
—	CENTER LINE
●	MANHOLE
⊗	WATER VALVE
—	WATER METER
—	SAS SERVICE W/ CAP
—	STORM INLET
—	FIRE HYDRANT
☆	LIGHT POLE
—	RIGHT OF WAY
—	STORM DRAIN
—	BERM
—	RETAINING WALL
—	BIKE TRAIL

WILSON & COMPANY
2600 THE AMERICAN ROAD S.E.
SUITE 100
RIO RANCHO, NEW MEXICO
87124
(505) 898-8021

REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE	*****	APPROVED FOR CONSTRUCTION		
	DRC Chairman	<u>William G. Balch</u>	6-10-03				
	Transportation	<u>William G. Balch</u>	5/15/03				
	Water/Wastewater	<u>William G. Balch</u>	4-5-03				
	Hydrology	<u>William G. Balch</u>	4/4/03				
	Parks	<u>William G. Balch</u>	4/4/03				
	Constr. Mngmt.	<u>William G. Balch</u>	6-10-03				
	Constr. Coord.	<u>William G. Balch</u>	6-10-03				
City Project No. 695191				Sheet 1 of 11			

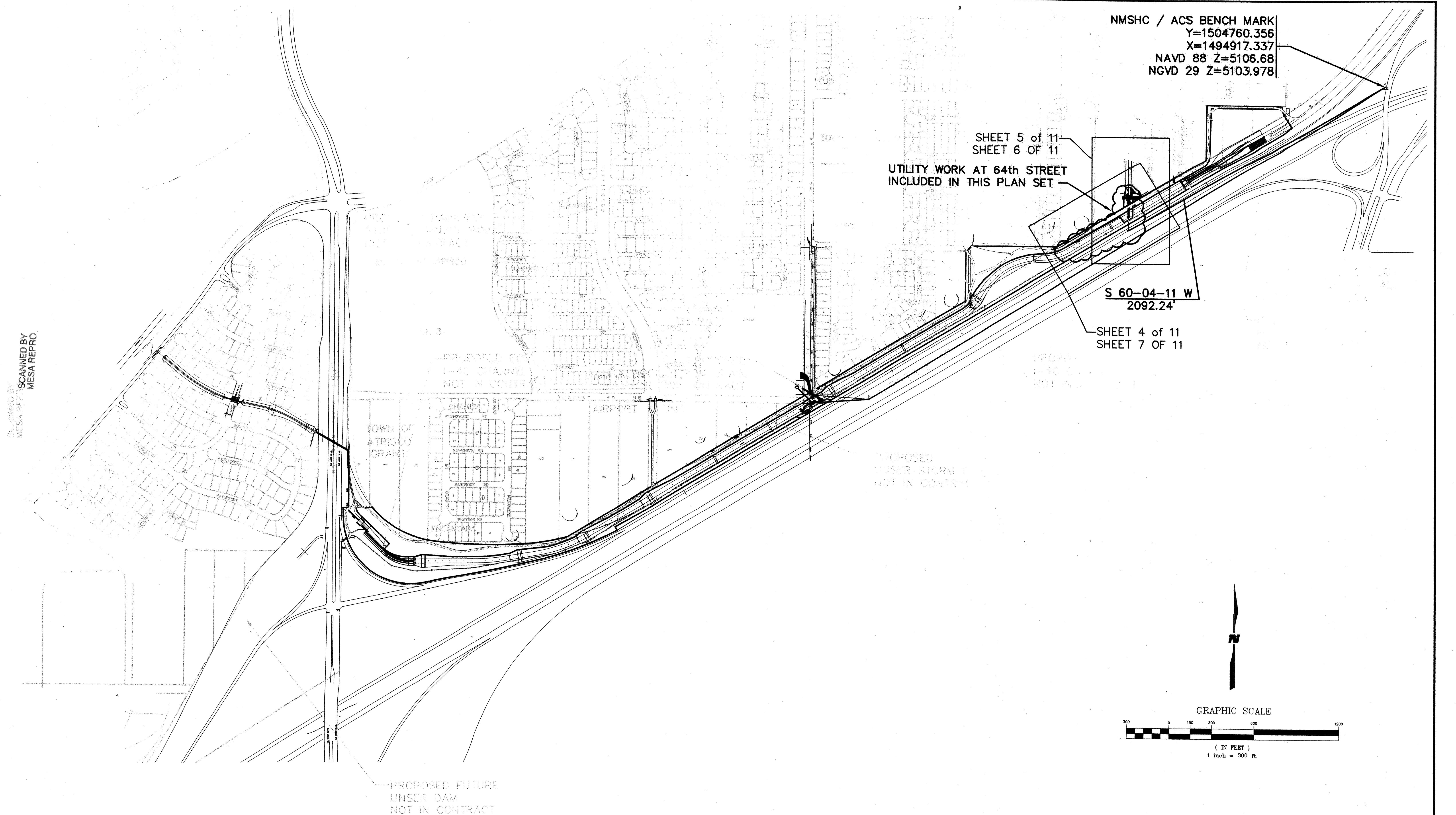
NMSHC / ACS BENCH MARK
Y=1504760.356
X=1494917.337
NAVD 88 Z=5106.68
NGVD 29 Z=5103.978

SHEET 5 of 11
SHEET 6 OF 11
UTILITY WORK AT 64th STREET
INCLUDED IN THIS PLAN SET

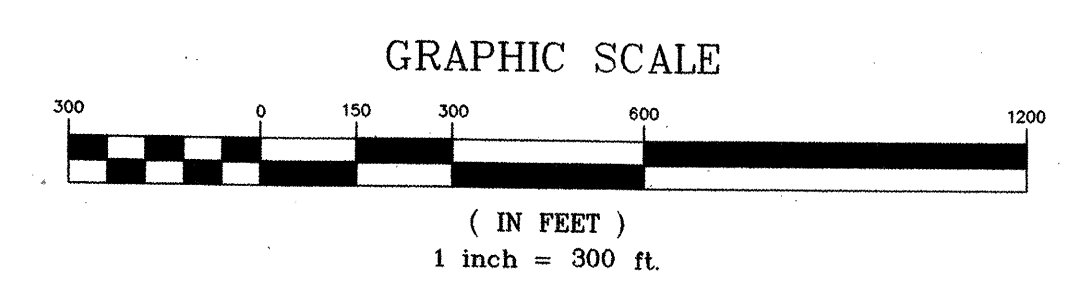
S 60-04-11 W
2092.24'

SHEET 4 of 11
SHEET 7 OF 11

SCANNED BY
MESA REPRO



PROPOSED FUTURE
UNDER DAM
NOT IN CONTRACT



RECORD DRAWING
DATE 12-2003

WILSON & COMPANY 2600 THE AMERICAN ROAD S.E. SUITE 100 RIO RANCHO, NEW MEXICO 87124 (505) 898-8021	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
	WEST I-40 CHANNEL OVERALL PROJECT MAP			
	Design Review Committee APPROVE JUN 10 2003 DESIGN	City Engineer Approval APPROVE JUL 21 2003 CITY ENGINEER	Mo./Day/Yr.	Mo./Day/Yr.
	Zone Map No. 695191 H-10,H-11,J-10		Sheet 2	Of 11

WCEA #X0218027
MAR. 2003

SCANNED BY
MESA REPRO

GENERAL NOTES:

- CITY OF ALBUQUERQUE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION, AND SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS THERE TO SHALL GOVERN CONSTRUCTION OF THIS PROJECT.
- ELEVATIONS ARE SHOWN IN FEET ABOVE MEAN SEA LEVEL DATUM. VERTICAL DATUM NAVD 1988. ALL CONVERSIONS WERE DONE USING CORPSCON V5.11.03.
- ALL STATIONING FOR THE ROADWAYS, EMBANKMENTS AND CHANNELS REFER TO THE MEASURED HORIZONTAL DISTANCE. LEFT AND RIGHT OF CENTERLINE ARE LOOKING IN THE DIRECTION OF INCREASING STATION.
- WHERE WIRE FENCES ARE SHOWN ALONG PROPERTY LINES, CONSTRUCT THE CENTERLINE OF THE FENCE POSTS SIX (6) INCHES TO THE INSIDE OF THE PROPERTY LINE.
- WHEN COORDINATES ARE SHOWN, HEREIN (N,E) THEY REFER TO GROUND COORDINATES. COORDINATES ARE BASED ON TRUE GROUND DISTANCES AND STATE GRID BEARINGS FROM PROJECT BENCHMARKS. SEE SHEET 1-2
- ADDITIONAL CONSTRUCTION AT WIRE GATES AND WALK GAPS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CONSTRUCTION OF THE FENCE.
- THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO WITHIN THE PROJECT RIGHT OF WAY OR TOP (LICENSE) BOUNDARY. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY AGREEMENTS NECESSARY OR DAMAGE BY HIS OPERATION TO PUBLIC OR PRIVATE PROPERTY INCLUDING UTILITIES. REFERENCE NOTE 25.
- FILL MATERIALS FROM EXCAVATION OR BORROW WHICH REQUIRES MORE THAN ONE HANDLING PRIOR TO FINAL PLACEMENT, INCLUDING STOCKPILING AND BLENDING TO MEET GRADATION REQUIREMENTS OR STOCKPILING FOR LATER DISPOSAL, WILL BE CONSIDERED INCIDENTAL TO THE CONTACT UNIT PRICE FOR UNCLASSIFIED EXCAVATION. NO SEPARATE PAYMENT SHALL BE MADE FOR BLENDING OR MULTIPLE HANDLING AND FINAL PAYMENT SHALL BE MADE ON THE BASIS OF QUANTITIES REMOVED FROM ORIGINAL LOCATION.
- ANY DISTURBED AREAS NOT INCLUDED ON THE PLANS SHALL BE TREATED WITH TYPE "A" SEEDING, AND NO MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE.
- WATERING, AS REQUIRED FOR CONSTRUCTION AND DUST CONTROL, SHALL BE CONSIDERED AN INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT OR PAYMENT SHALL BE MADE. CONSTRUCTION AREAS SHALL BE WATERED FOR DUST POLLUTION ABATEMENT AS DIRECTED BY THE ENGINEER AND SHALL BE PAID UNDER ITEM 6 DUST CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SUPPLYING WATER AS REQUIRED.
- TRAFFIC LANES PROVIDED DURING CONSTRUCTION SHALL BE MAINTAINED, IN SUCH A CONDITION UNDER ALL WEATHER CONDITIONS, SO AS TO PERMIT THE REASONABLE PASSAGE OF PASSENGER VEHICLES, AND SHALL BE KEPT GRADED AND SMOOTH, AND WATERED SEVERAL TIMES DAILY TO CONTROL DUST.
- THE CONTRACTOR WILL BE RESPONSIBLE TO REPLACE AT HIS OWN EXPENSE ANY AND ALL PROPERTY CORNERS OR MONUMENTS DESTROYED IN THE PROCESS OF CONSTRUCTION. ALL PROPERTY CORNERS OR MONUMENTS MUST BE RESET BY A REGISTERED PROFESSIONAL SURVEYOR.

- NO PAYMENT ABOVE THE COST OF EXCAVATION WILL BE MADE FOR PLACEMENT OF SURPLUS FILL AT DESIGNATED WASTE AREAS OR THE CONTRACTOR'S SELECTED DISPOSAL SITE.
- MINOR CHANGES IN ELEVATIONS AND SLOPES FOR EXCAVATION AND FILL MAY BE MADE TO SUIT FIELD CONDITIONS, AS APPROVED BY THE PROJECT ENGINEER.
- 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 SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE.
- AMAFCA SHALL SET TBM'S AND FLAG FOUND PROPERTY CORNERS AS REQUIRED TO ESTABLISH PROJECT CONTROL. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THESE MARKERS AND PROVIDE CONSTRUCTION STAKING REQUIRED FOR ESTABLISHING CORRECT LINE AND GRADES SHOWN ON THE PLANS. NO DIRECT PAYMENT WILL BE PROVIDED FOR THIS WORK AND IT WILL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS.
- BARRICADES AND TRAFFIC CONTROL SHALL BE ERECTED AND MAINTAINED BY THE CONTRACTOR. THE COST AND PAYMENT IS AN INCIDENTAL COST TO THE PROJECT, ALSO COSTS FOR CONSTRUCTION SIGNS SHALL BE AN INCIDENTAL COST TO THE PROJECT.
- CLEARING AND GRUBBING MATERIAL MAY BE DISPOSED OF ON-SITE ONLY AT THE DIRECTION OF THE PROJECT ENGINEER.
- ALL TRAFFIC CONTROL SIGNS TO COMPLY WITH THE LATEST EDITION OF M.U.T.C.D. SIGN LOCATIONS SUBJECT TO APPROVAL OF THE CITY CONSTRUCTION COORDINATOR JOE LUEHRING. (505)924-3400
- QUANTITIES SHOWN HEREIN FOR THE VARIOUS BID ITEMS ARE FOR THE CONTRACTOR'S INFORMATION ONLY. PAYMENT SHALL BE BASED ON ACTUAL QUANTITIES AS CONSTRUCTED.
- ALL SCARIFYING, EXCAVATION AND COMPACTION SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- THE CONTRACTOR SHALL INCLUDE IN HIS CONSTRUCTION SEQUENCE PROVISIONS WHICH WILL ALLOW FOR THE SAFE PASSAGE OF WATER FROM ARROYOS AND DITCHES THROUGH THE PROJECT SITE WITHOUT DAMAGE TO FACILITIES BEING CONSTRUCTED, COMPLETED FACILITIES, OR ADJACENT PRIVATE PROPERTY.
- ALL STORM WATER DISCHARGES FROM THE PROJECT SITE SHALL MEET THE REQUIREMENTS OF THE REGULATIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) AS WELL AS APPLICABLE STATE AND LOCAL REGULATIONS. DIRECT AND CONFINE ALL FLOW TO RETENTION POND.

SUMMARY OF QUANTITIES
CHANGE ORDERS QUANTITIES

Line No.	Item Description	Ext'd QTY	Unit	To Date Quantity
CHANGE ORDERS				
CHANGE ORDER #1				
8	RFO 4 EXTEND 8" PIPE NORTH @ J-BOX	20.00	LF	20.00
13	RFO 4 6" DIA MANHOLE	2.00	EA	2.00
15	14" WATERLINE INCL T/BF	13.00	LF	13.00
28	REMOVE / REPLACE 18" SD	3.00	LF	3.00
31	DUCTILE IRON MJ FITTINGS	1,000.00	LB	872.00
38	14" BUTTERFLY W/ DEEP VALVE BOX	1.00	EA	1.00
39	RFO 1 8" GATE VALVE W/ VALVE BOX	2.00	EA	1.00
40	RFO 1 2" AIR / VAC ASSEMBLY	1.00	EA	0.00
41	RFO 2 8" PRESS TAP @ 14" WL	1.00	EA	0.00
42	RFO 2 8" WATERLINE	1.00	EA	0.00
43	RFO 3 24" STORM DRAIN INCL T/BF	70.00	LF	84.00
44	RFO 4 24" SAS BY PASS 5' x 5' / 1'	100.00	LF	100.00
45	RFO 4 18" END CAP	1.00	EA	1.00
46	RFO 5 SUPPORT EXIST 40" RCP, SUPPORT & BACKFILL EXIST 14" WL & FH	1.00	EA	100.00%
47	RFO 6 TEMP RELACATION @ 12" SAS	1.00	EA	100.00%
48	REM & DISPOSE 4" DIA MH	2.00	EA	2.00
49	ADDITIONAL BOND	1.00	EA	1.00
50	6" DIA MFL W/ HOAS PIPE	1.00	EA	1.00

- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- ALL EXCAVATION, TRENCHING, & SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
- 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-PUBLIC WORKS CONSTRUCTION -1986 - UPDATE NO. 6.
- CONTRACTOR SHALL COORDINATE WITH THE WATER SYSTEM DIVISION FOR THE EXCAVATION OF THE VALVE SHUT OFF PLAN, NOT LESS THAN SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT THE EXISTING PUBLIC WATER UTILITIES. ONLY ONE SYSTEM DIVISION PERSONNEL SHALL OPERATE EXISTING VALVES. REFER TO SECTION 18 OF THE SPECIFICATIONS. THE WATER SYSTEM DIVISION PHONE NUMBER IS 857-8200.
- CONTRACTOR SHALL NOTIFY THE CITY SURVEYOR NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. 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 SPECIFICATIONS.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION CO-ORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION CO-ORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. CONTRACTOR MUST REFER TO SECTION 19 OF THE
- CONTRACTOR SHALL PREVENT ENTRY OF STORM WATER FLOW INTO THE SANITARY SEWER SYSTEM DURING CONSTRUCTION. THIS IS TO PREVENT FLOODING OF DOWNSTREAM RESIDENTS WITH SEWAGE.

SUMMARY OF QUANTITIES				
ITEM NO.	ITEM DESCRIPTION	UNIT	APPROX. QTY.	FINAL QTY.
General				
1	MOBILIZATION	LS	1	100%
2	CONSTRUCTION STAKING	LS	1	100%
3	CLEARING & GRUBBING	LS	1	100%
4	REMOVAL OF MISCELLANEOUS DEBRIS AND STRUCTURES (SUMMARY BELOW)	LS	1	100%
5	CPM SCHEDULE	LS	1	100%
6	DUST CONTROL	LS	1	100%
7	TRAFFIC CONTROL	LS	1	100%
Unser Detention Facility (Interim)				
8	60" SAS PIPE, C.I.P., INCLUDING TRENCH AND BACKFILL	LF	140	124 LF
9	24" SAS PIPE, C.I.P., INCLUDING TRENCH AND BACKFILL	LF	625	595.56 LF
10	12" SAS PIPE, C.I.P., INCLUDING TRENCH AND BACKFILL	LF	20	8
11	8" SAS PIPE, C.I.P., INCLUDING TRENCH AND BACKFILL	LF	20	5.0 LF
12	MH 8" DIA., TYPE E.	EA	2	1
13	MH 4" DIA., TYPE E.	EA	4	4
14	VERTICAL DROP AT MH	VF	10	17 VF
15	14" WL PIPE, C.I.P., INCLUDING TRENCH AND BACKFILL	LF	140	140
16	STRUCTURAL CONCRETE 4000 PSI (JUNCTION BOX)	CY	40	37.04
17	RESIDENTIAL PAVEMENT	SY	323	
18	STD. CURB AND GUTTER	LF	145	124
19	4" SIDEWALK	SY	55	49
20	WET CONNECTION, SAS	EA	7	6
21	PUMP SEWAGE, SAS	HR	500	51
22	48" RCP, C.I.P., INCLUDING TRENCH AND BACKFILL	LF	64	8
23	MODIFY EXISTING SAS BOX, INCLUDING NEW LID & GROUT	LS	1	100%
24	VALVE BOX ADJUST TO GRADE	EA	2	2
25	VALLEY GUTTER	SY	42	47
26	EXCAVATION	CY	450	450
27	REMOVE & RELOCATE FH & VALVE	EA	1	1
28	REMOVE & REPLACE 18" SD	LF	29	29
29	REMOVE & REPLACE FENCE	LS	1	50%
30	JOINT RESTRAINING HARNESS	EA	7	4
31	DUCTILE IRON MJ FITTINGS 250	LB	1800	1800
32	SD MH 6" DIA, TYPE 'E'	EA	1	1

SUMMARY OF REMOVALS

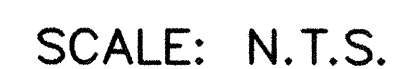
1	48" SAS REMOVE AND DISPOSE	LF	162	
2	24" SAS REMOVE AND DISPOSE	LF	20	
3	18" SAS REMOVE AND DISPOSE	LF	140	
4	12" SAS REMOVE AND DISPOSE	LF	93	
5	8" SAS REMOVE AND DISPOSE	LF	309	
6	36" RCP SD REMOVE AND DISPOSE	LF	172	
7	CONCRETE RUNDOWN REMOVE AND DISPOSE	SY	118	
8	SD MH REMOVE AND DISPOSE	EA	1	
9	SAS MH REMOVE AND DISPOSE	EA	8	
10	REMOVE ASPHALT	SY	311	
11	REMOVE CHAINLINK FENCE	LF	25	
12	REMOVE SIDEWALK	SY	55	
13	REMOVE CURB & GUTTER	LF	172	
14	REMOVE VALLEY GUTTER	SY	44	
15	REMOVE FH & VALVE	EA	1	1
16	REMOVE 18" SD	LF	29	29

NOTE: MISCELLANEOUS REMOVALS NOT SHOWN IN PLANS SHALL BE REMOVED AT THE DIRECTION OF THE PROJECT MANAGER

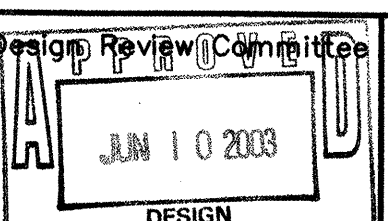
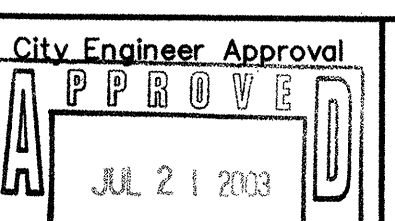
RECORD DRAWING
DATE 12-2003

WCEA #X0218027
MAR. 2003

WILSON & COMPANY 2600 THE AMERICAN ROAD S.E. SUITE 100 RIO RANCHO, NEW MEXICO 87124 (505) 898-8021	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
	WEST I-40 CHANNEL GENERAL NOTES	
	Design Review Committee APPROVE JUN 10 2003 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVE JUL 21 2003 CITY ENGINEER
	City Project No. 695191	Zone Map No. H-10,H-11,J-10
Sheet 3		Of 11

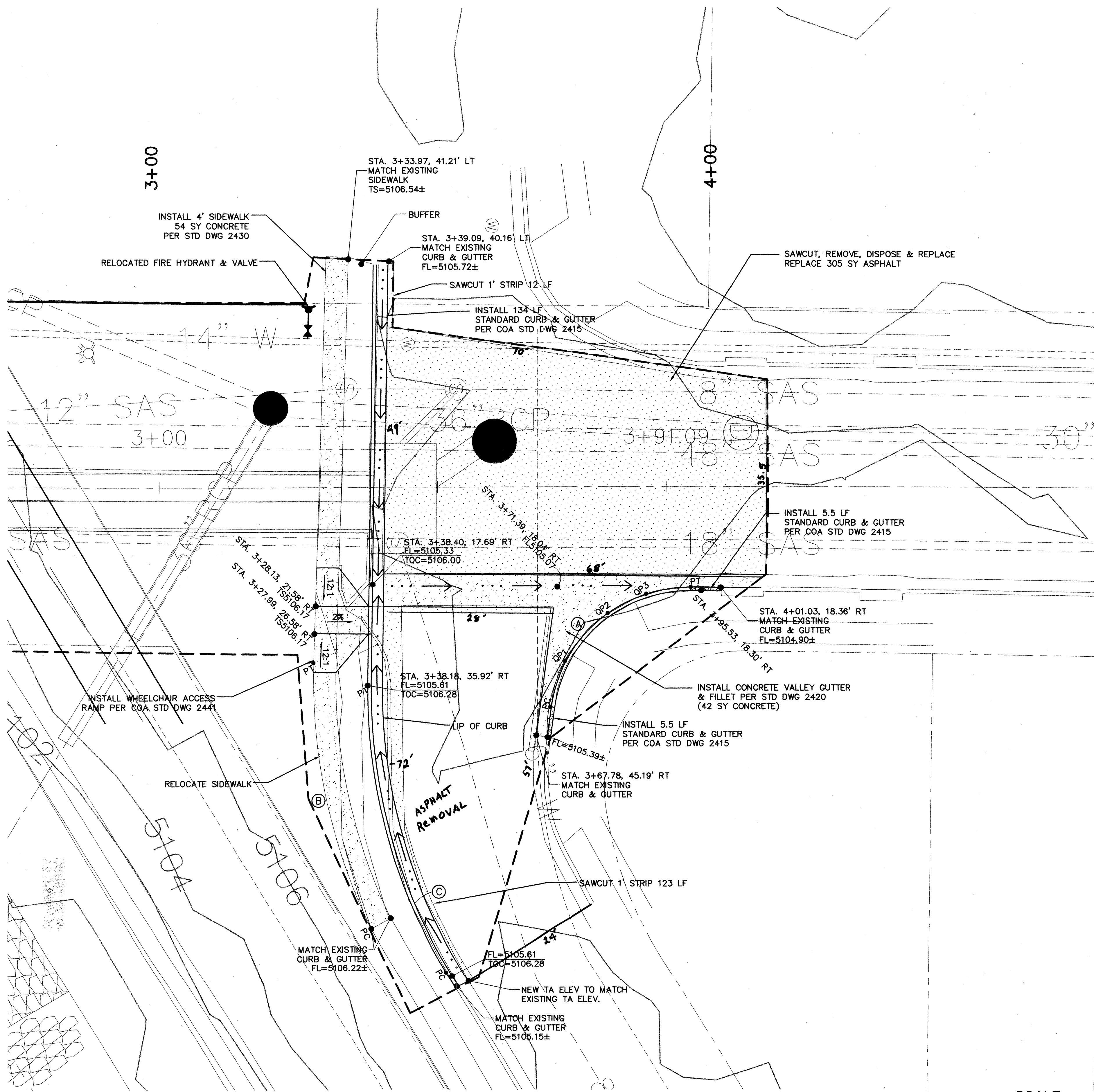


SCALE: 1" = 30'

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP															
WEST 1-40 CHANNEL DEMOLITION PLAN															
Design Review Committee 	City Engineer Approval 	Last Design Update	<table border="1"> <tr> <th>Mo./Day/Yr.</th> <th>Mo./Day/Yr.</th> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	Mo./Day/Yr.	Mo./Day/Yr.										
Mo./Day/Yr.	Mo./Day/Yr.														
City Project No. 695191		Zone Map No. H-10, H-11, J-10	Sheet 4 of 11												

[illegible]

SCANNED BY
MESA REPRO



CURVE DATA W/ QUTER POINTS

	PC	QP1	QP2	PT	PT
TC	5106.01	5105.91	5105.81	5105.71	5105.61
FL	5105.34	5105.24	5105.14	5105.04	5104.94

- Δ = 83°-01'-36"
L = 36.23'
R = 25.00'
- Δ = 27°-30'-24"
L = 49.93'
R = 104.00'
- Δ = 31°-25'-22"
L = 54.84'
R = 100.00'

- GENERAL NOTES
- ALL R/W AND PROPERTY LINES SHOWN ARE APPROXIMATE LOCATIONS.
 - CONTOUR INFORMATION PROVIDED IS LIDAR MAPPING DONE FOR BERNALILLO COUNTY BY THE ARMY CORPS OF ENGINEERS.
 - SPOT ELEVATIONS SHOW BASED ON FIELD SURVEYED BY WILSON & COMPANY INC.
 - DATUM ELEVATION
NGVD 29 Z=5103.978
NAVD 88 Z=5106.68

ELEVATIONS ARE IN INTERIM NAVD 88 DATUM.
TO CONVERT FROM INTERIM NAVD 88 TO NGVD 29
SUBTRACT 2.70 FEET. ALL ELEVATIONS IN () ARE NGVD 29.
ALL CONVERSIONS WERE DONE USING CORPSCON V5.11.03.

SCALE:
HORIZ: 1" = 10'

RECORD DRAWING
DATE 12-2003

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR: NEW MEXICO UNDERGROUND		A STANDARD STATE HIGHWAY COMMISSION DISK		FIELD NOTES		REGISTERED PROFESSIONAL ENGINEER	
DATE: 8-03		DATE STAMPED: STA 1-40-18, AND IS FLUSH WITH		DATE: 8-03		13686	
INSPECTOR: S.A. YOUTZ & CO.		THE GROUND.		BY: NEW MEXICO SURVEYING CO.		5-1-03	
DATE: 12-03		DATUM ELEVATION		NO. 1		REMARKS	
NGVD 29 Z=5103.978		NAVD 88 Z=5106.68		REVISIONS		DESIGNED BY: TJA	
MICRO-FILM INFORMATION		RECORDED BY: B.L.C. Balch		NO. DATE		DRAWN BY: JMB	
DATE: 12-03		DATE: 12-03		WILSON & COMPANY, ENGINEERS & ARCHITECTS		CHECKED BY: DSH	
DATE: 12-03		DATE: 12-03		DATE: OCT. 2002		DATE: OCT. 2002	

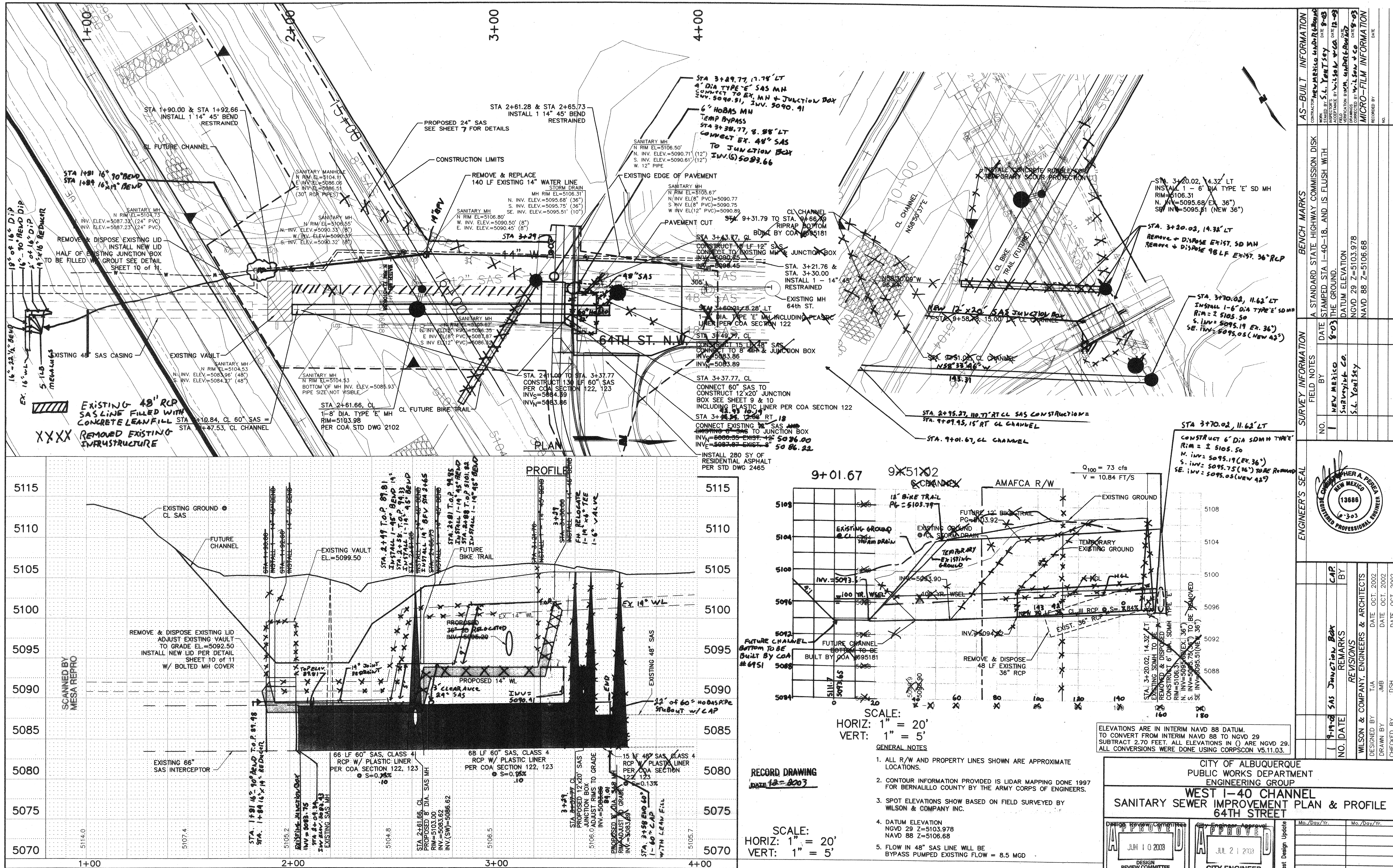
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

WEST I-40 CHANNEL
SANITARY SEWER IMPROVEMENT PAVING
PLAN 64TH STREET

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED JUN 10 2003	APPROVED JUL 21 2003		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. 695191 Zone Map No. H-10,H-11,J-10

Sheet 5 of 11



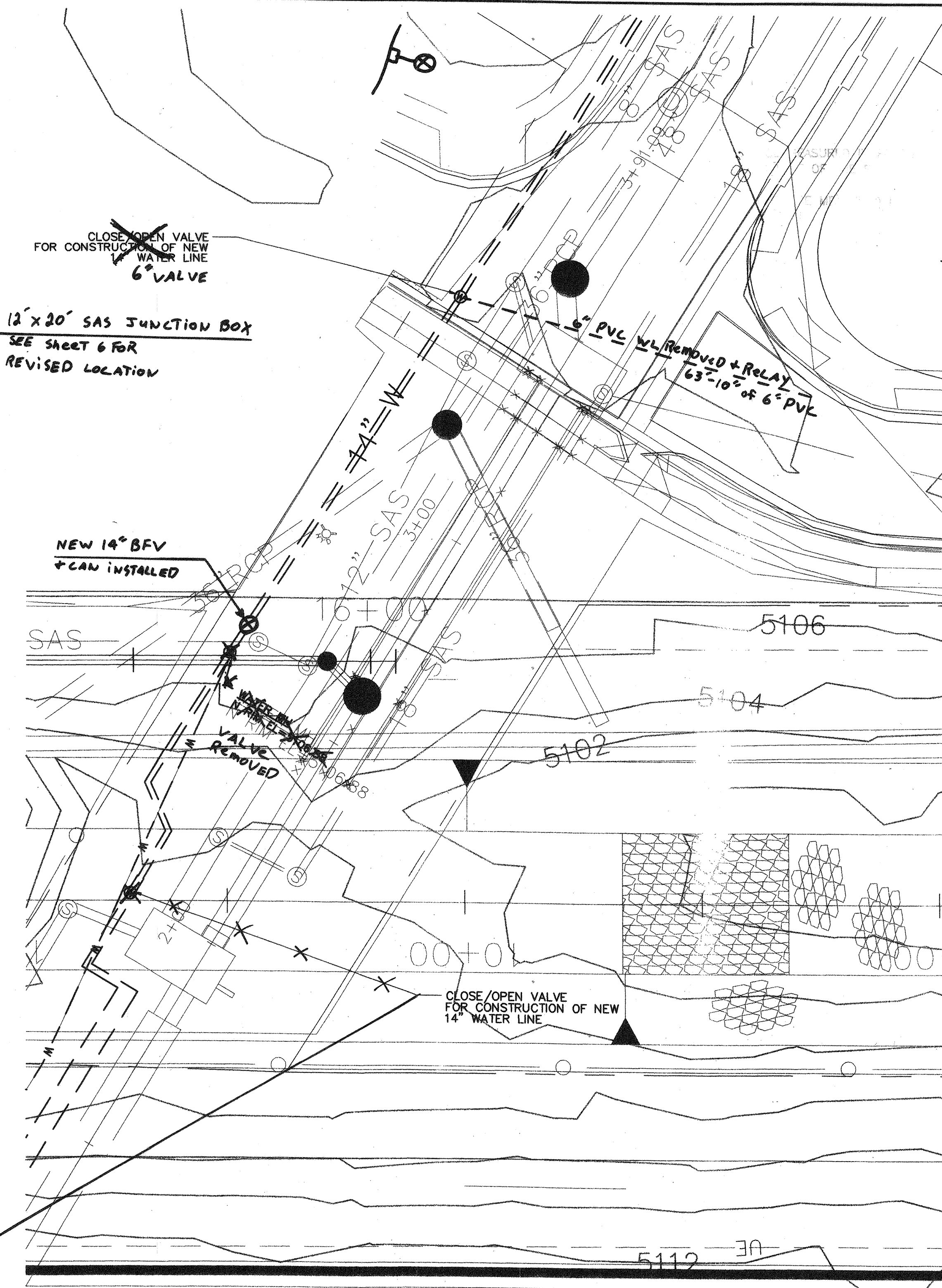
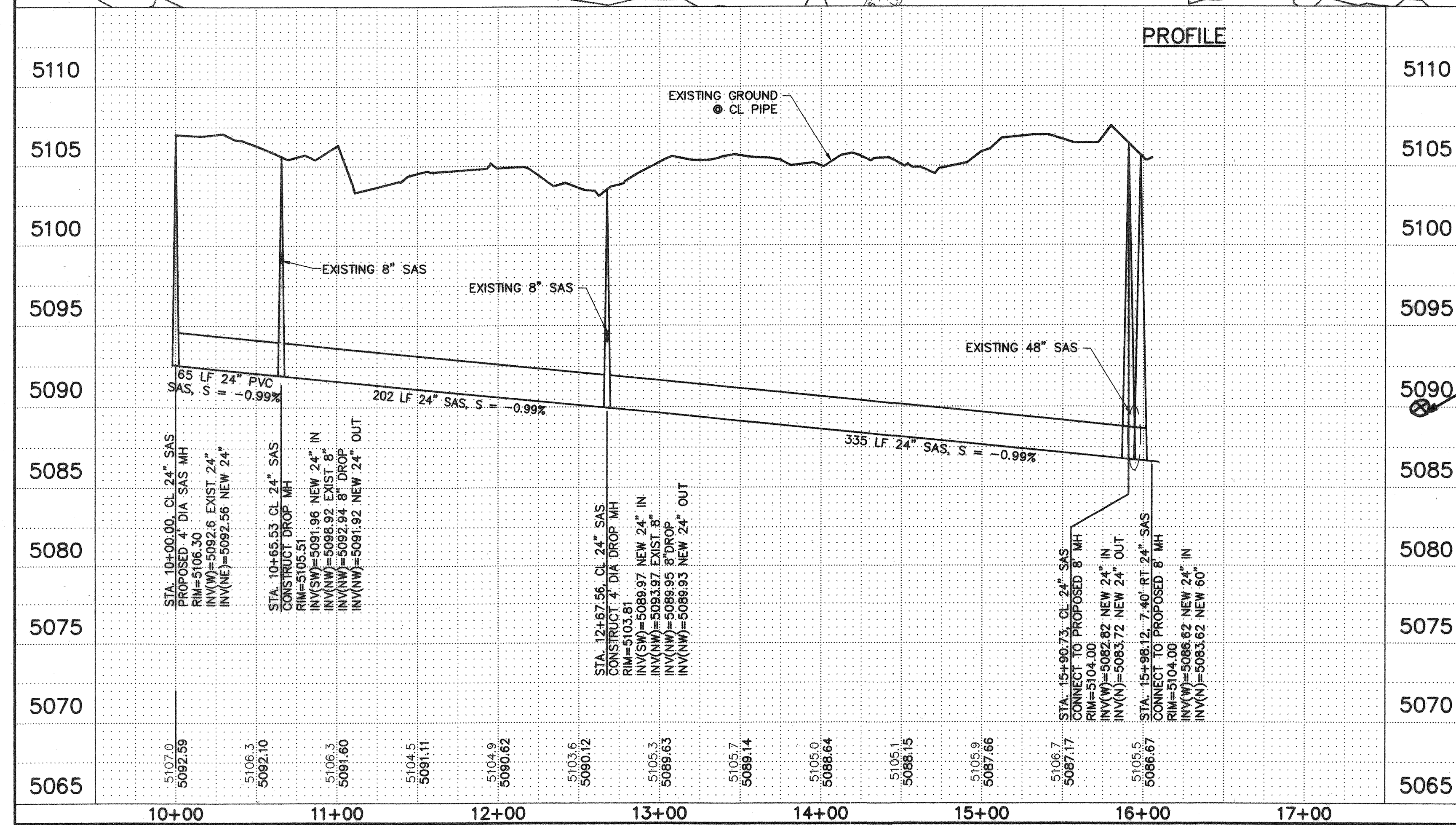
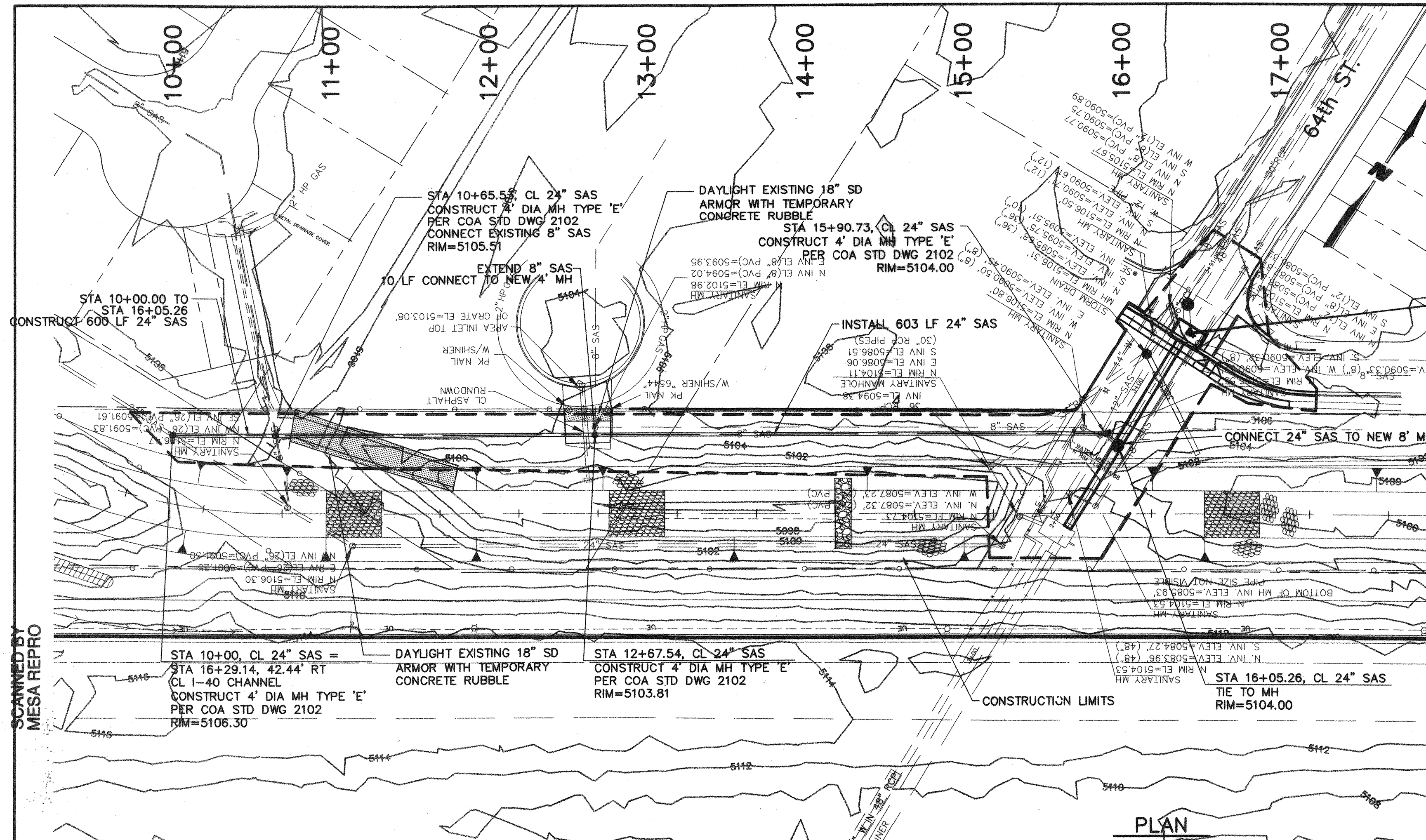
X:\Public\PROJECTS\X0218027\X0218027\SA\SAS\0275AS01.dwg 03/06/2003 03:47:59 PM MST

WCEA #X0218027
OCT. 2002

City Project No.
695191

Zone Map No.
H-10, H-11, J-10

Sheet
6 of 11



SCALE: N.T.S.

- GENERAL NOTES
1. ALL R/W AND PROPERTY LINES SHOWN ARE APPROXIMATE LOCATIONS.
 2. CONTOUR INFORMATION PROVIDED IS LIDAR MAPPING DONE FOR BERNALILLO COUNTY BY THE ARMY CORPS OF ENGINEERS.
 3. SPOT ELEVATIONS SHOW BASED ON FIELD SURVEYED BY WILSON & COMPANY INC.
 4. DATUM ELEVATION
NGVD 29 Z=5103.978
NAVD 88 Z=5106.68

ELEVATIONS ARE IN INTERIM NAVD 88 DATUM.
TO CONVERT FROM INTERIM NAVD 88 TO NGVD 29
SUBTRACT 2.70 FEET. ALL ELEVATIONS IN () ARE NGVD 29.
ALL CONVERSIONS WERE DONE USING CORPSCON V5.11.03.

RECORD DRAWING
DATE 12-2003

SCALE:
HORIZ: 1" = 50'
VERT: 1" = 5'

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

**WEST I-40 CHANNEL
ILIFF ROAD 24" SAS RELOCATION PLAN & PROFILE
STA. 10+00 TO STA. 16+05**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	Mo./Day/Yr.
APPROVED JUN 10 2003	APPROVED JUL 21 2003	
DESIGN REVIEW COMMITTEE	CITY ENGINEER	

City Project No. **695191** Zone Map No. **H-10,H-11,J-10**

Sheet **7** of **11**

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
		NO.	DATE	STAMPED STA	COMMISSION DISK	WORK	DATE
		1	8-03	1-40-18	DISK	CONTRACTOR	DATE
REVISIONS		BY		DATE		DATE	
WILSON & COMPANY, ENGINEERS & ARCHITECTS		TJA		DATE		DATE	
DESIGNED BY		JMB		DATE		DATE	
DRAWN BY		DSH		DATE		DATE	
CHECKED BY				DATE		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. 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 WORK SITE 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 7:00 A.M. OR END WORK AFTER 7:00 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 TRAVELED 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.

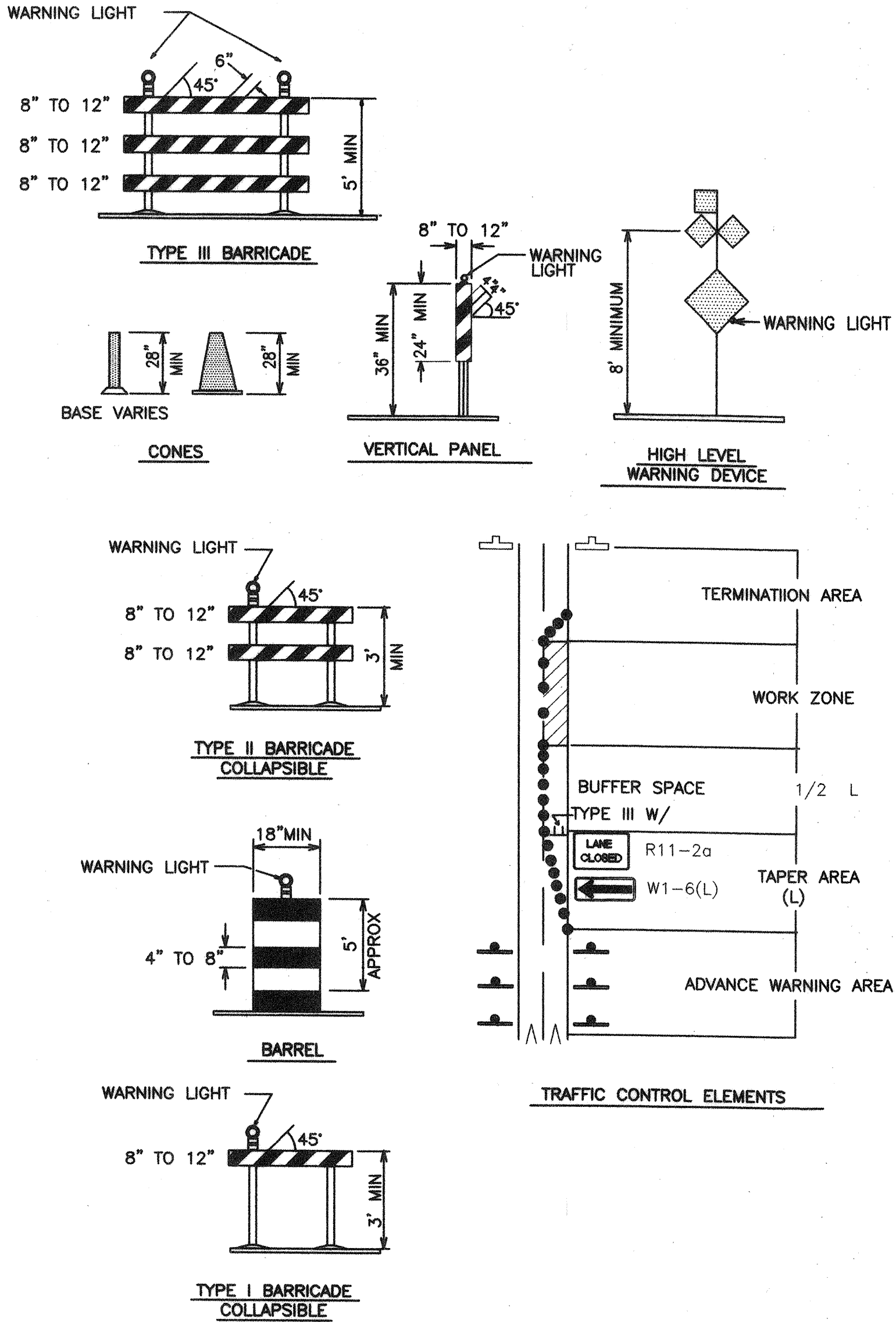
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

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

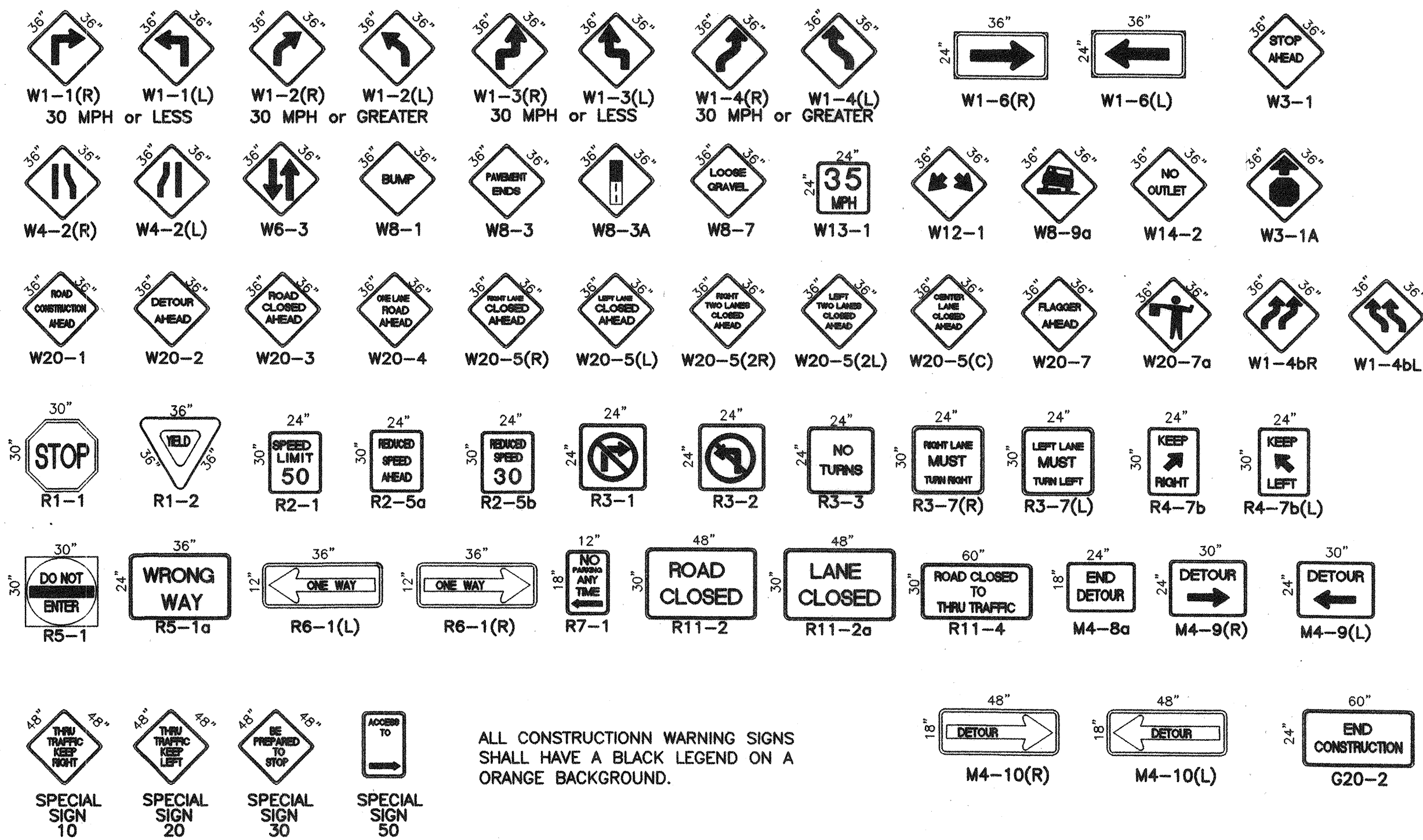
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" WITH SUPER ENGINEERING GRADE SHEETING OR BETTER.

SPECIAL PROJECT TRAFFIC CONTROL NOTES



SIGN FACE DETAILS



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

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 STREET LIMIT OF THE STREET
TAPER LENGTH - SEE CHART BELOW
THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

TAPER REQUIREMENT

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

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

SPEED LIMIT (MPH)	MINIMUM DISTANCE BETWEEN SIGNS	MINIMUM DISTANCE 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

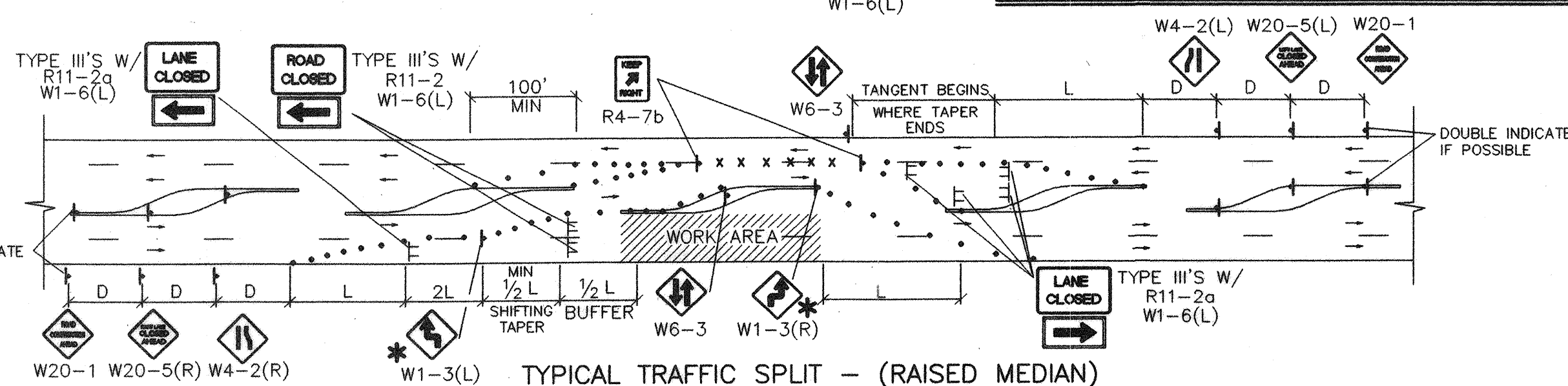
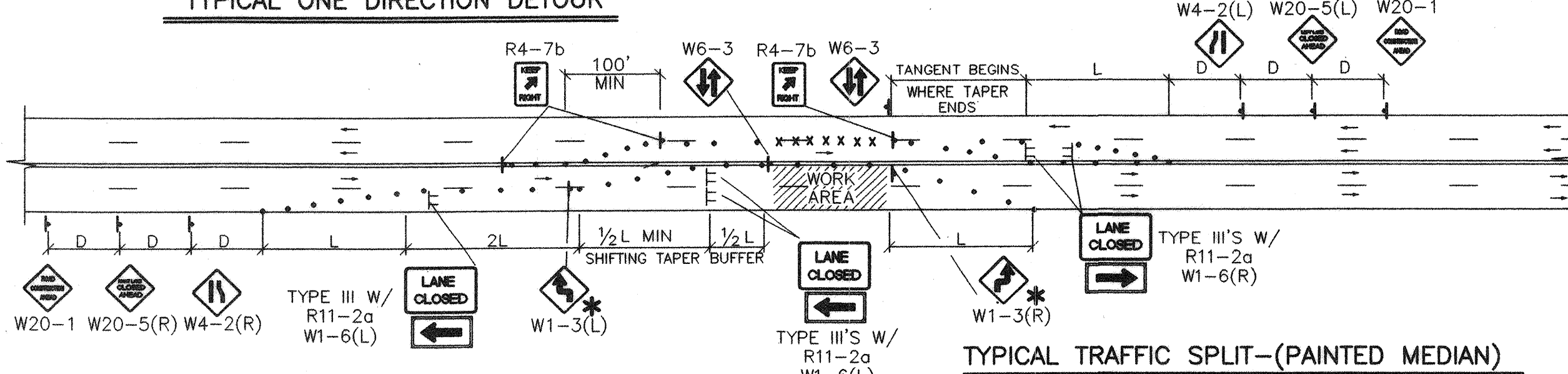
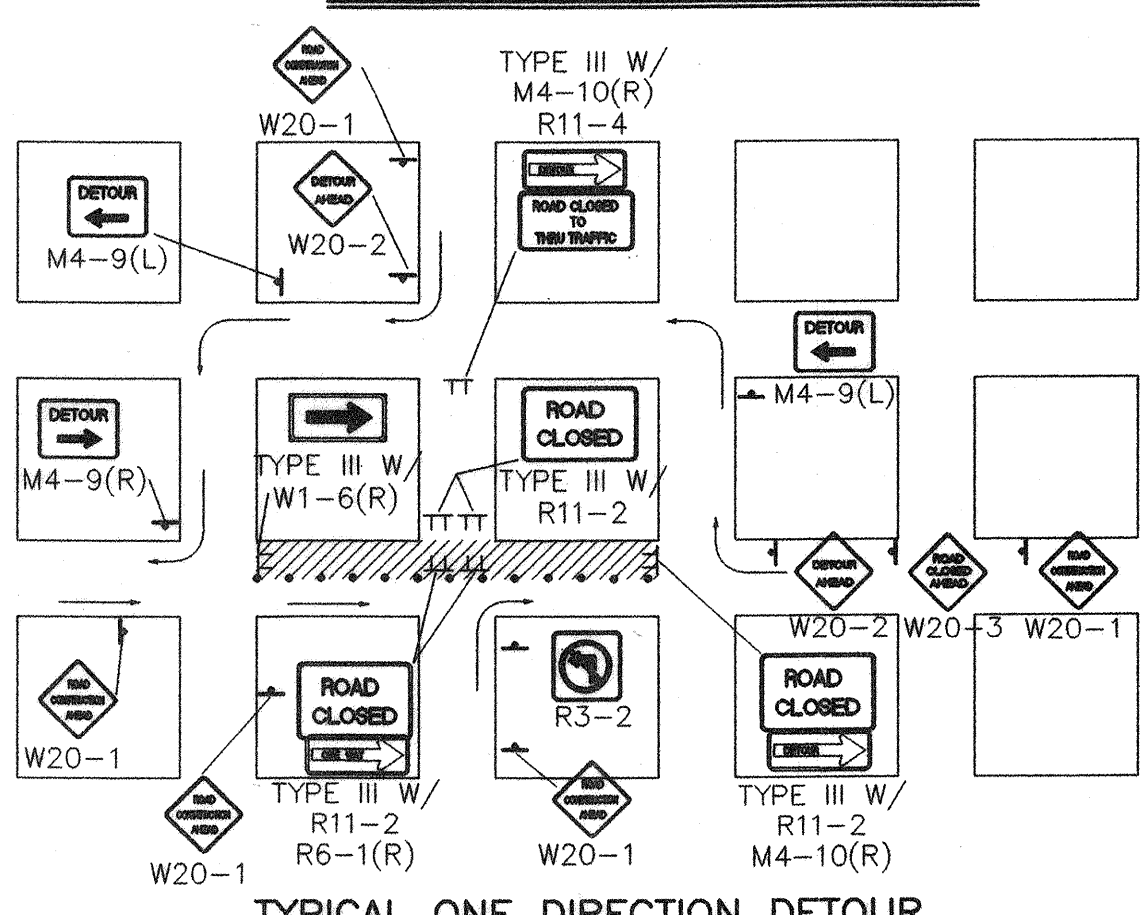
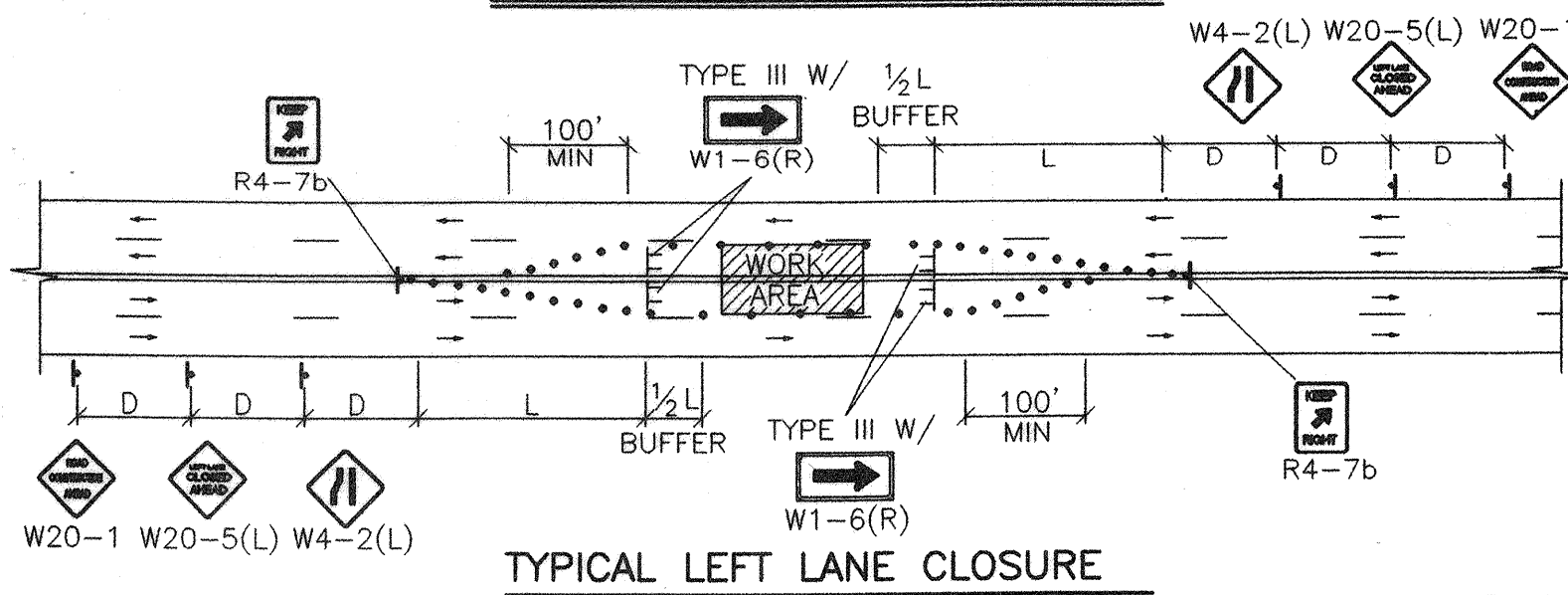
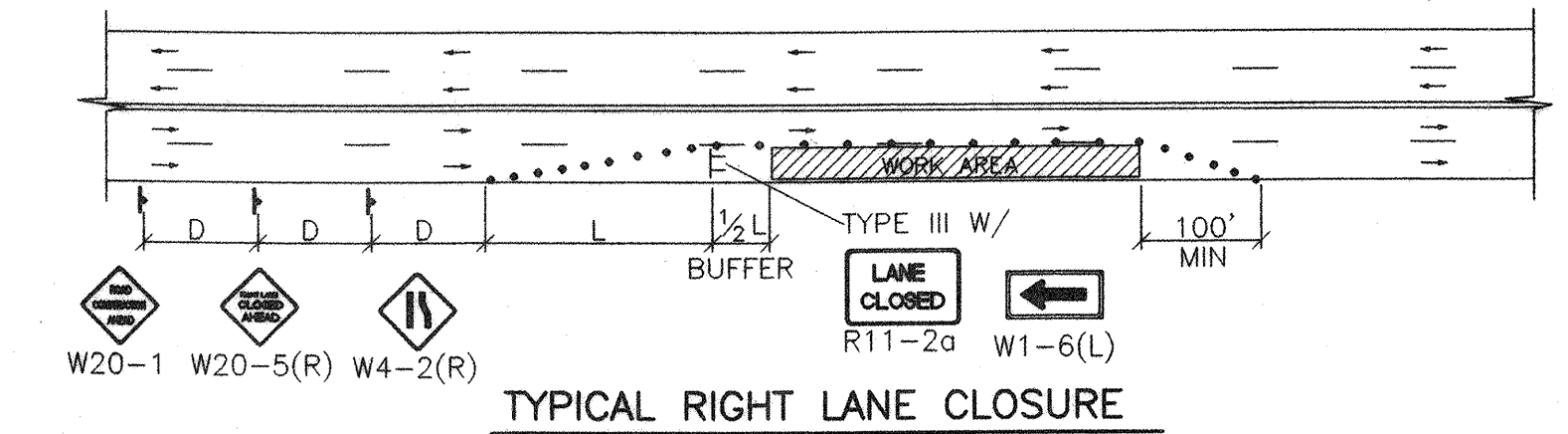
TAPER LENGTH COMPUTATION

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

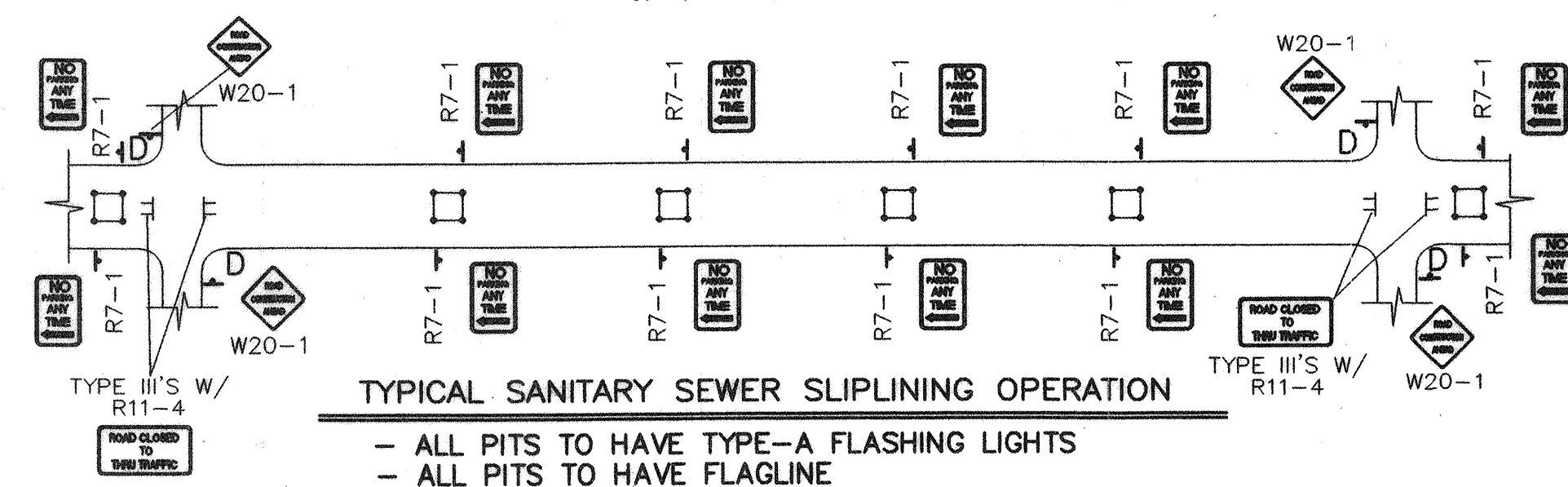
RECORD DRAWING
DATE 12-2003

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP				
WEST I-40 CHANNEL SANITARY SEWER IMPROVEMENT 64TH STREET				
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER
DRC CHAIRMAN			WATER	
TRANSPORTATION			WASTE WATER	
HYDROLOGY				
Project No.		Map No.	Sheet Of	
695191			8 OF 11	

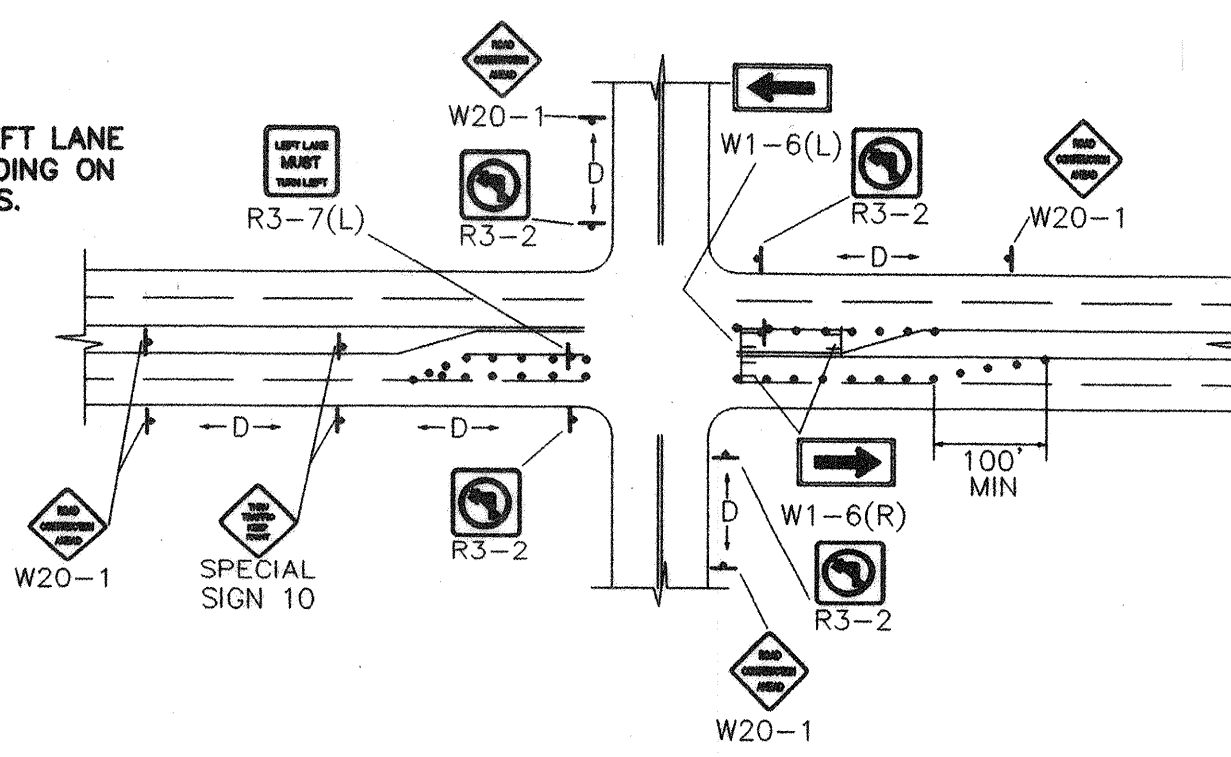
SCANNED BY
MESA REPRO



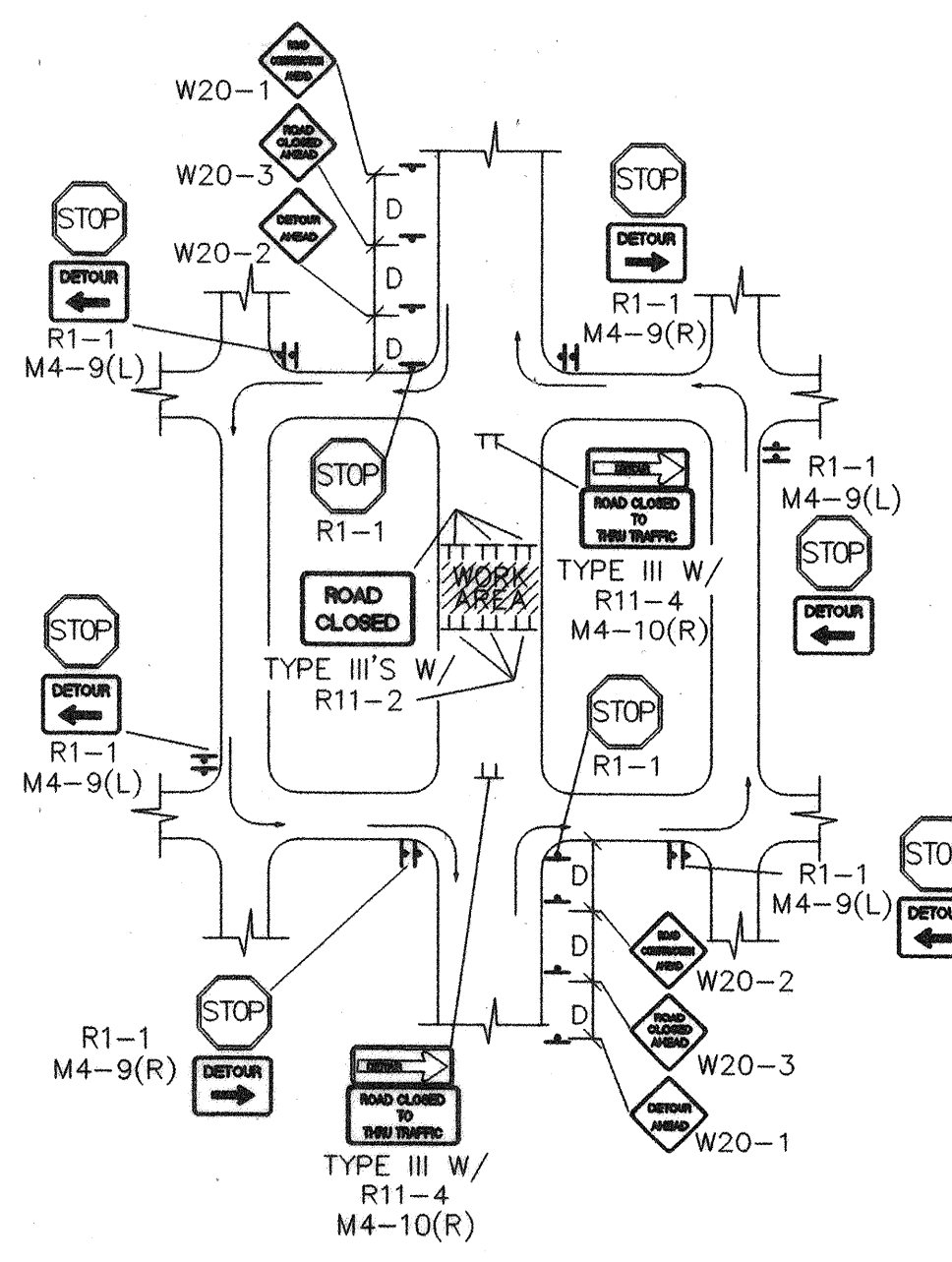
- TRAFFIC SPLIT NOTES:**
1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
 2. 1/2 L IS THE MINIMUM DISTANCE FOR SHIFTING TAPERS.
 3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
 4. MEDIAN REMOVAL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



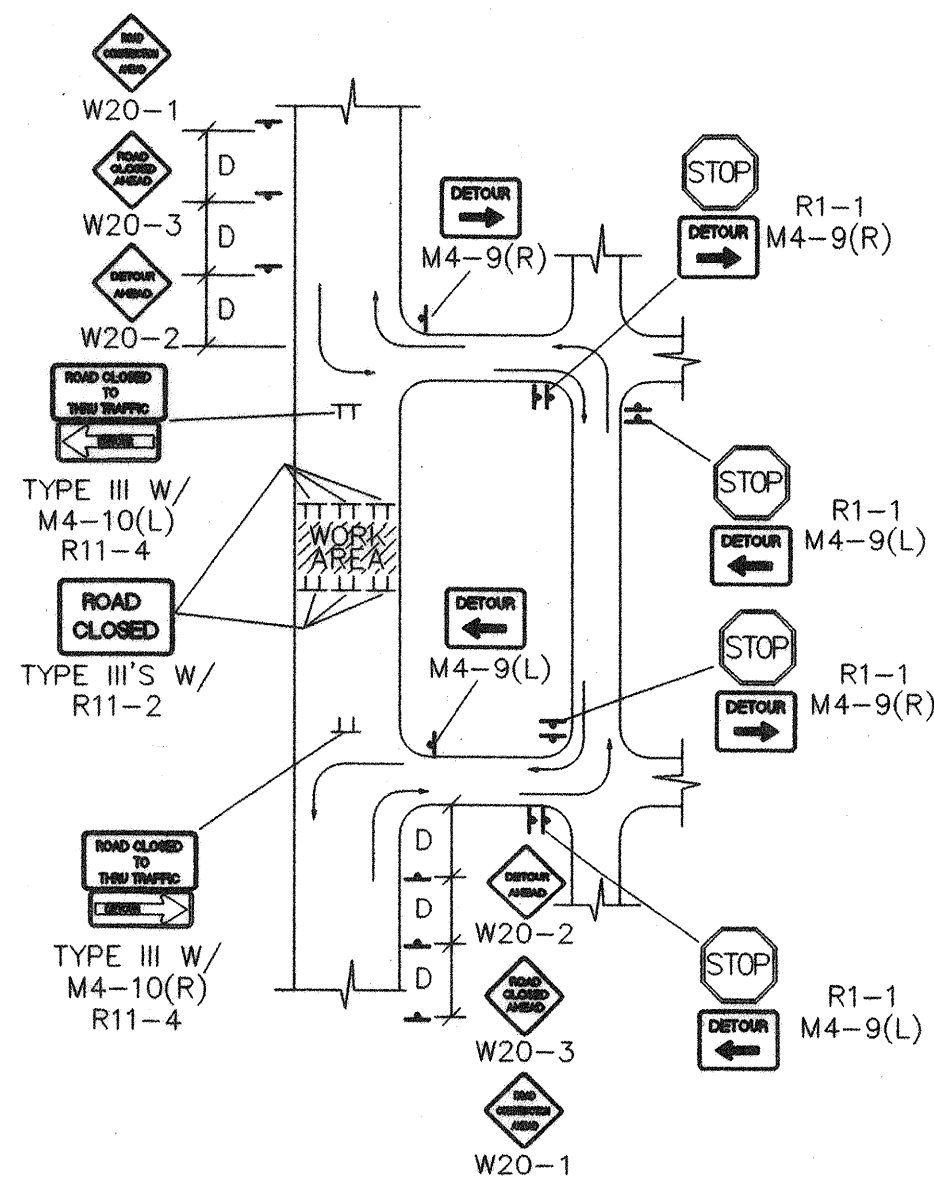
NOTE:
MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.



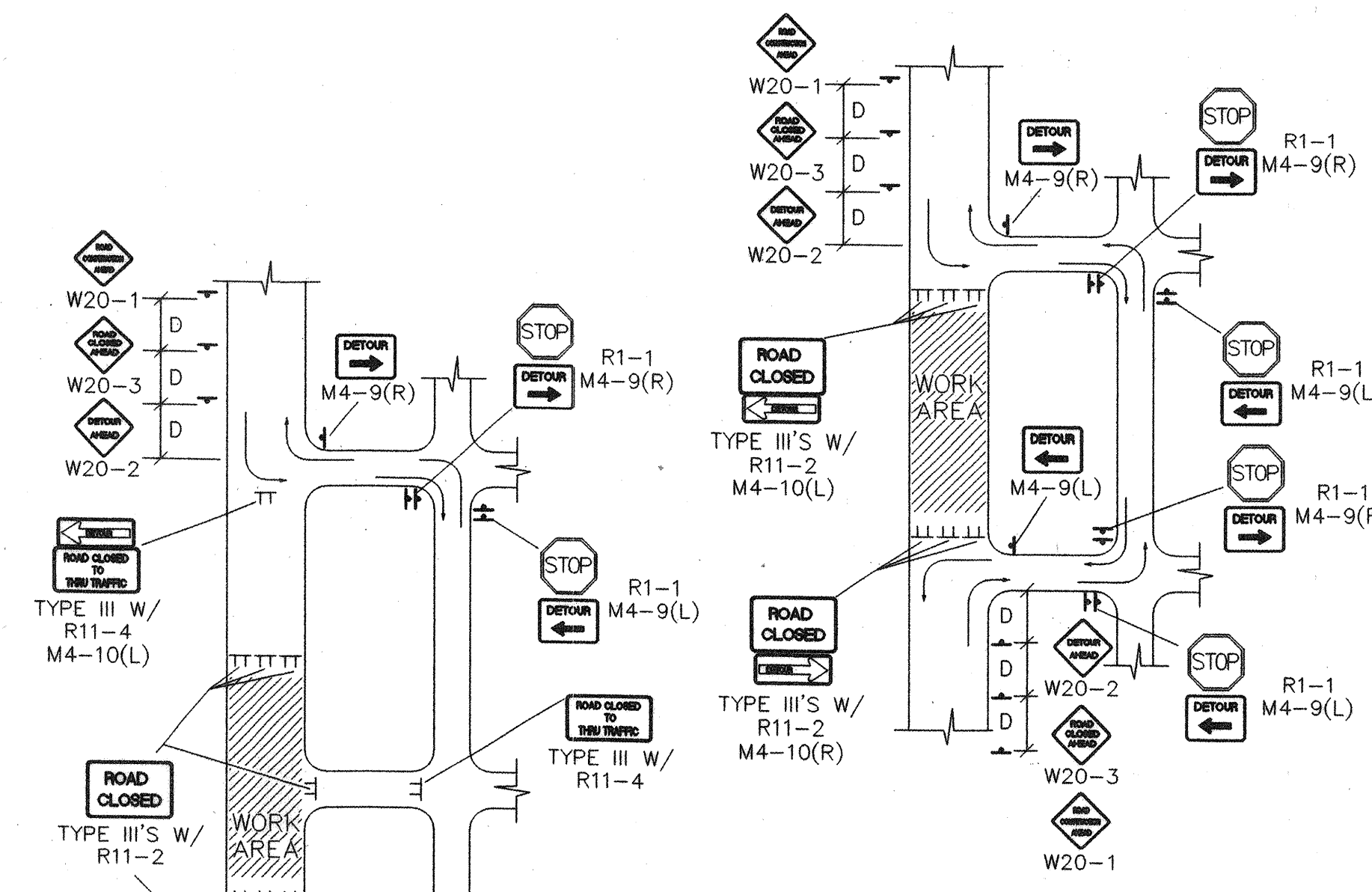
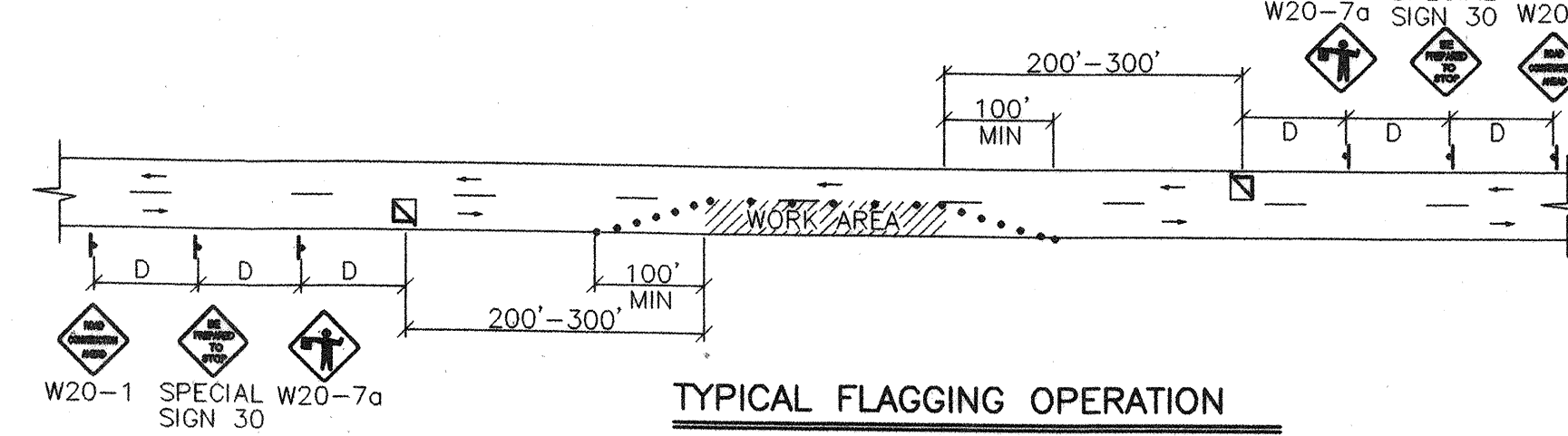
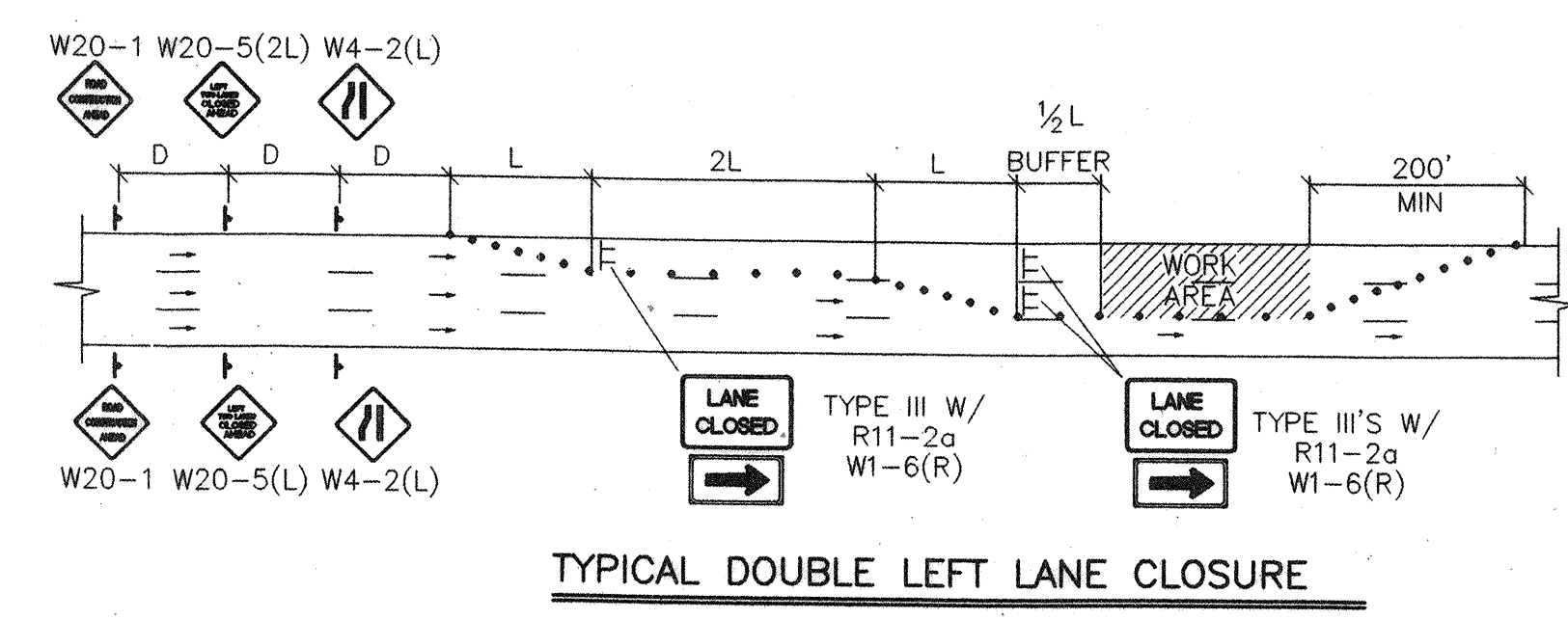
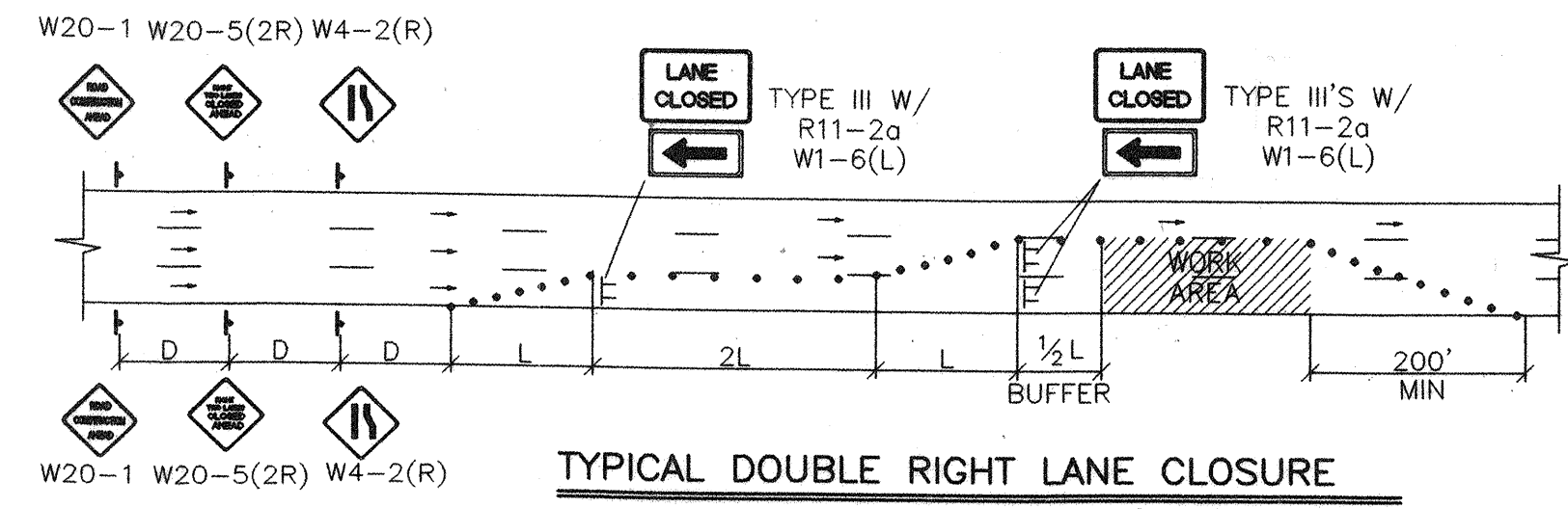
NOTE: DEPENDING ON WORK ZONE LOCATION.



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



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

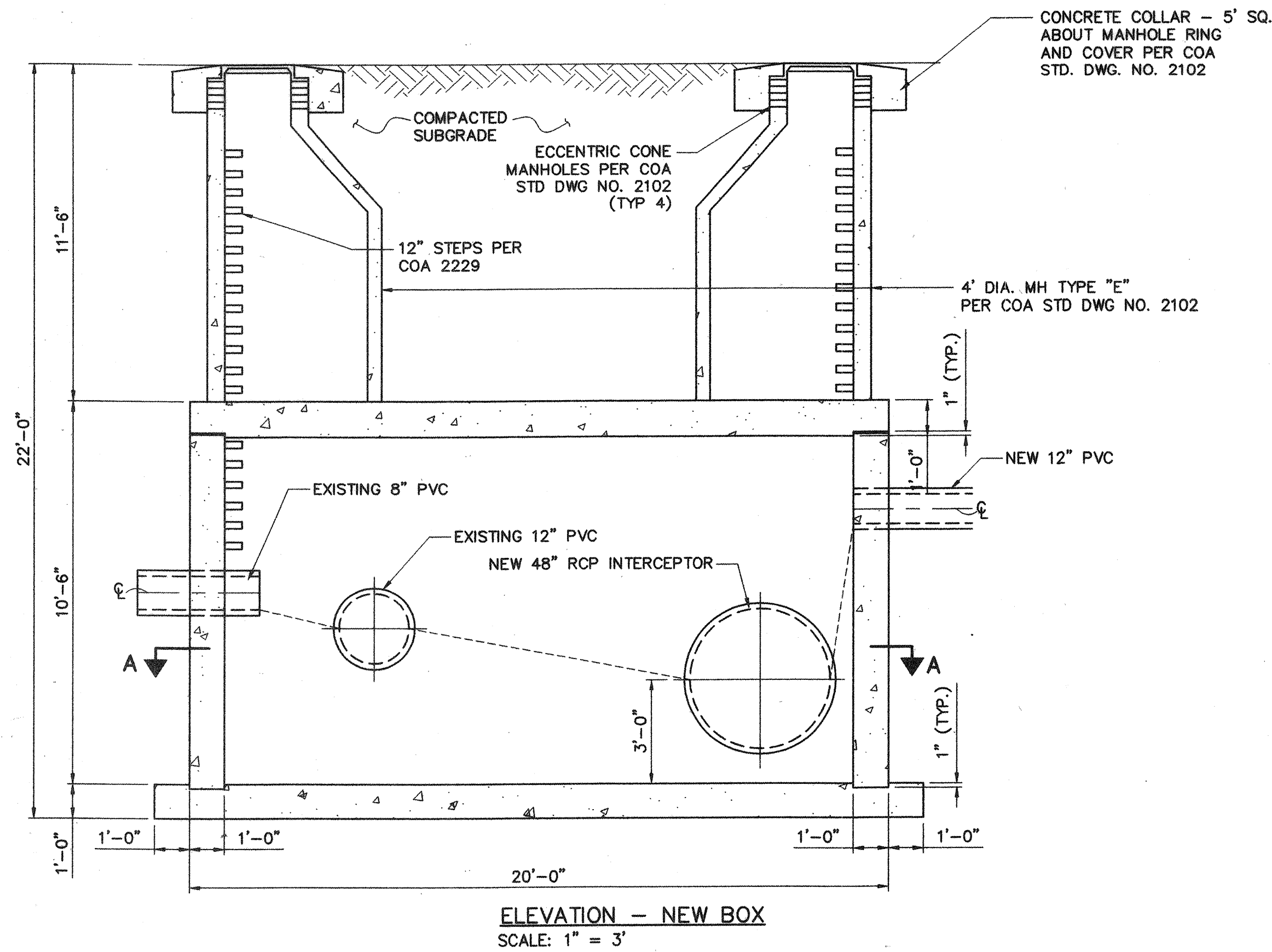


NOTE: (R1-1) BASED ON FIELD CONDITIONS.

RECORD DRAWING
DATE 12-2003

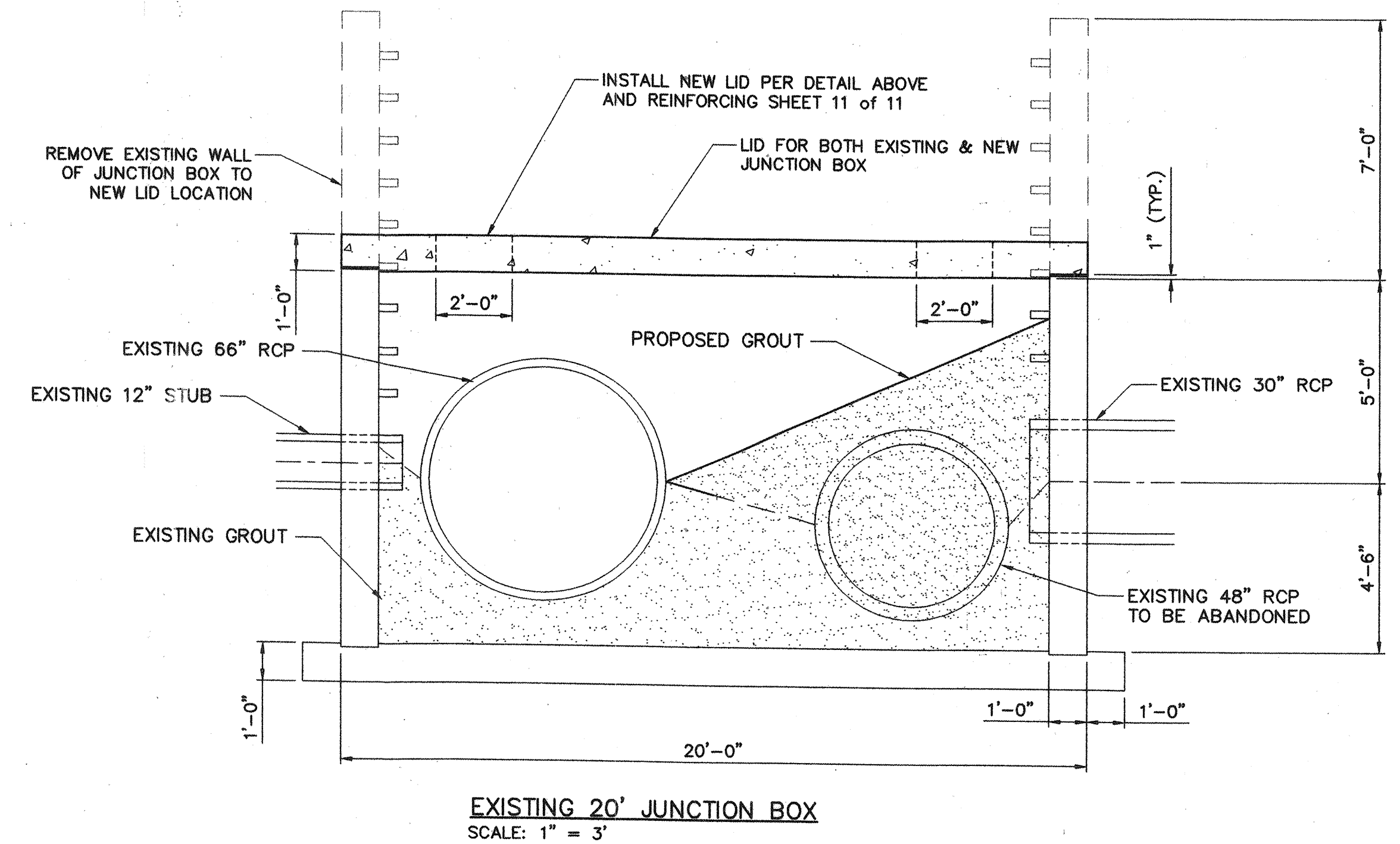
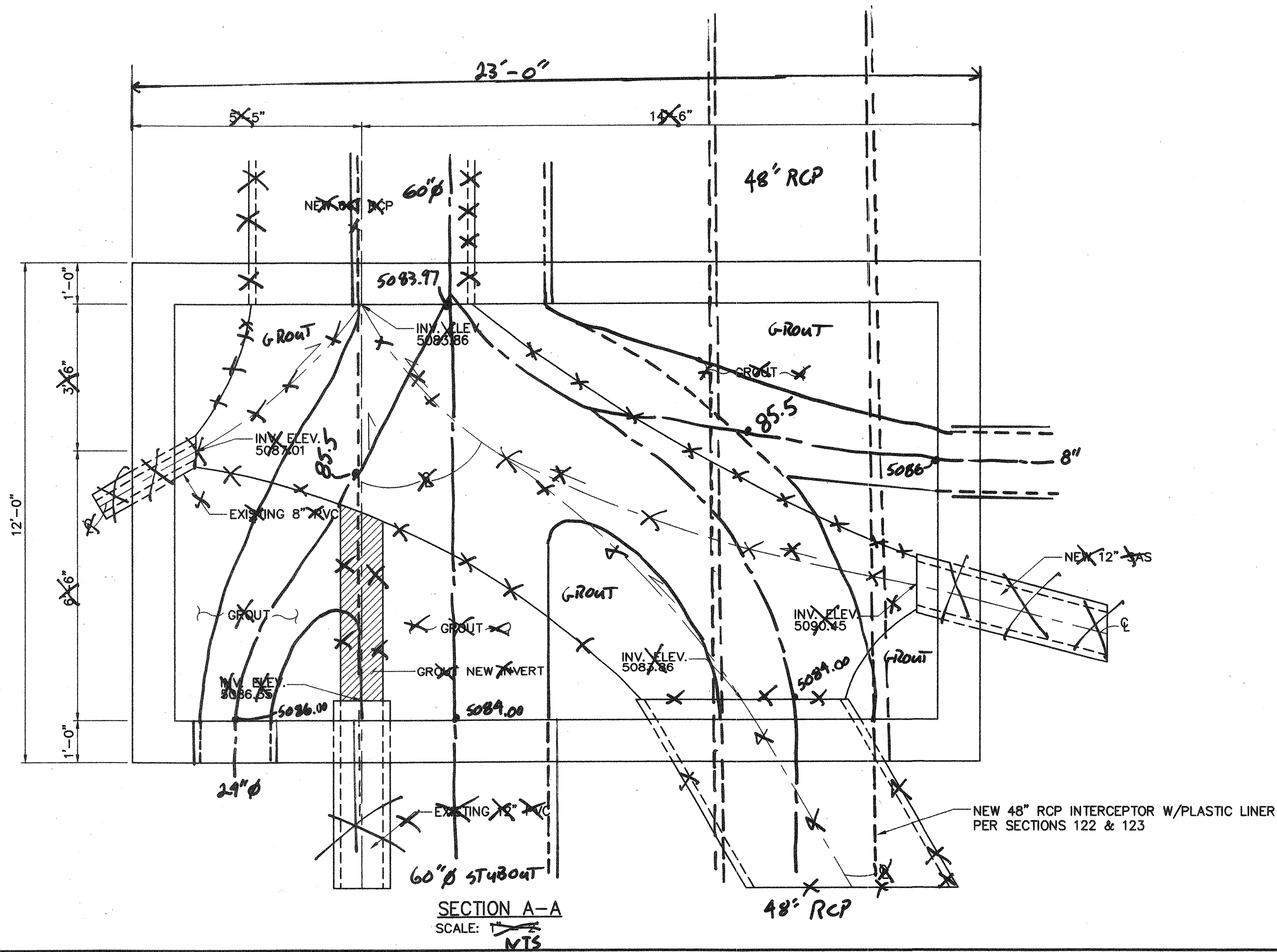
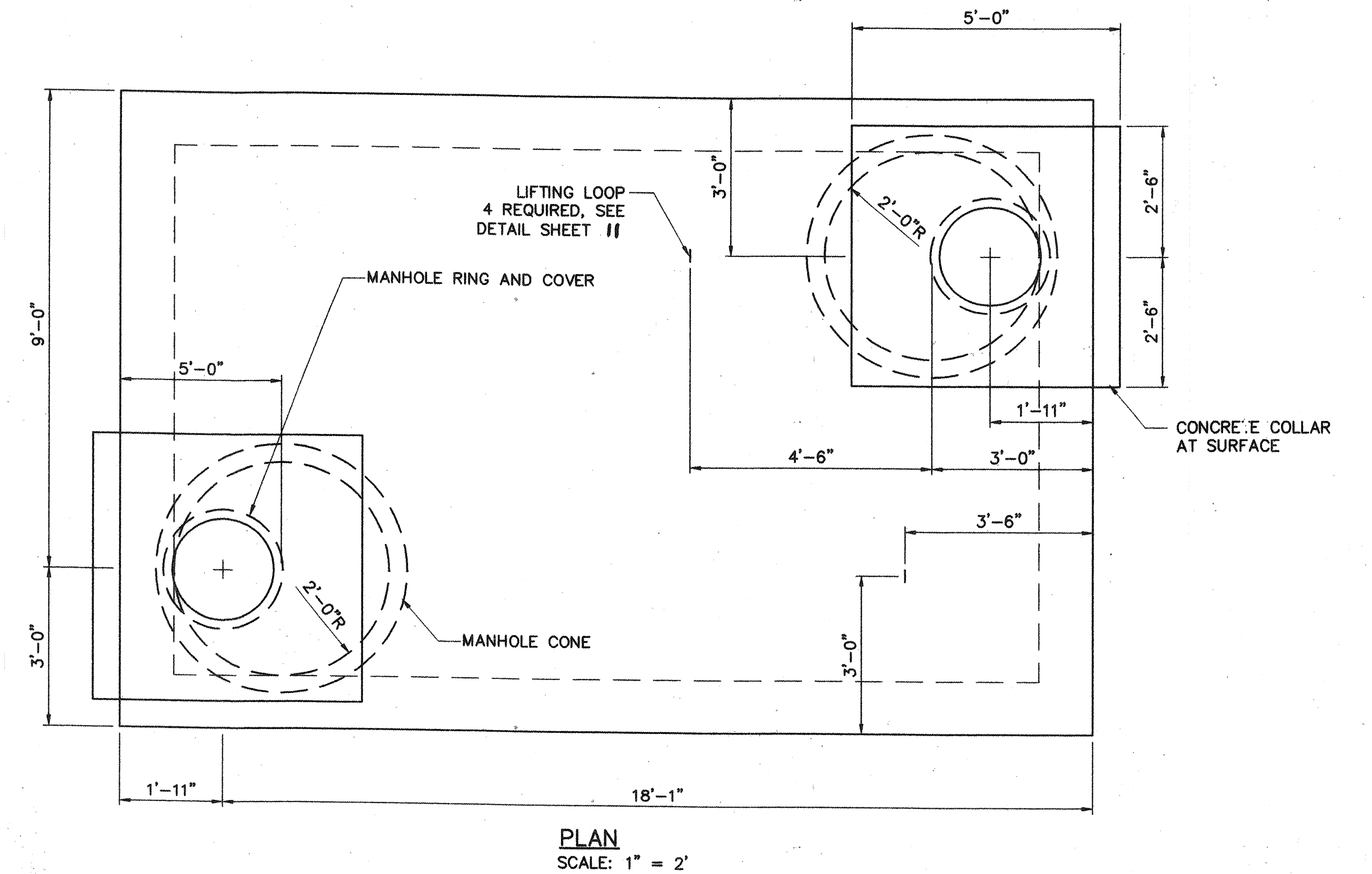
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
WEST I-40 CHANNEL SANITARY SEWER IMPROVEMENT 64TH STREET			
APPROVALS	ENGINEER	DATE	APPROVALS
DRC CHAIRMAN			WATER
TRANSPORTATION			WASTE WATER
HYDROLOGY			
Project No.	Map No.	Sheet	Of
695191		9	OF 11

COA STD



NOTES:

1. ALL NEW RCP PER COA SECTION 123 WITH PLASTIC LINER PER COA SECTION 122.
2. NEW JUNCTION BOX & EXISTING JUNCTION BOX SHALL BE PLASTIC LINED PER COA SECTION 122.
3. EXISTING ELEVATIONS ARE BASED ON EXISTING AS BUILT AND SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
4. ALL INVERT ELEVATIONS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION OF NEW JUNCTION BOX AND PIPE CONNECTION.
5. ALL CONCRETE FOR JUNCTION BOXES SHALL BE 4000 PSI.

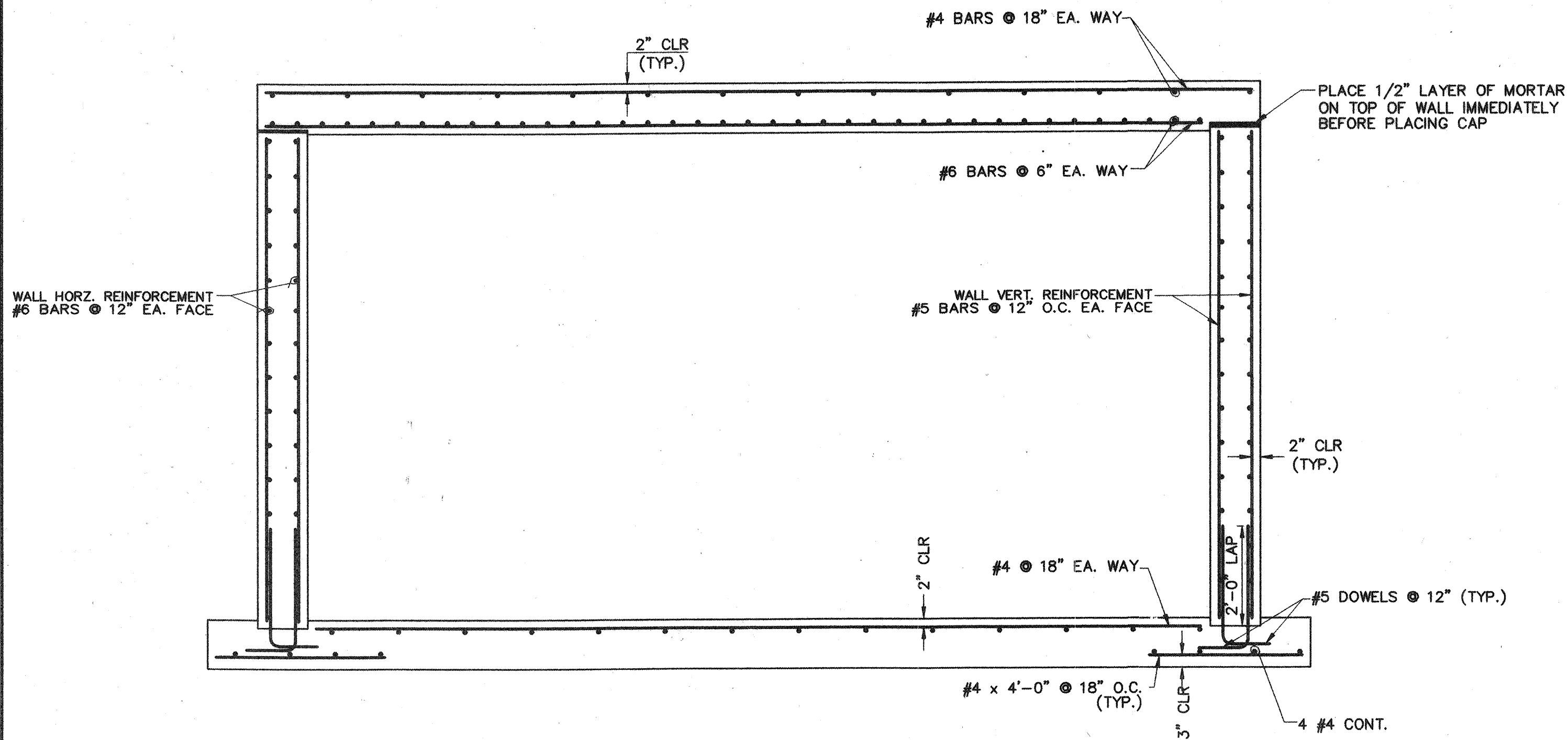


WILSON & COMPANY 2600 THE AMERICAN ROAD S.E. SUITE 100 RIO RANCHO, NEW MEXICO 87124 (505) 898-8021		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
WEST I-40 CHANNEL JUNCTION BOX		Design Review Committee City Engineer Approval Last Design Update Mo./Day/Yr. Mo./Day/Yr.	
APPROVED JUN 10 2003 DESIGN REVIEW COMMITTEE		APPROVED JUL 21 2003 CITY ENGINEER	
City Project No. 695191		Zone Map No. H-10,H-11,J-10	
Sheet 10		Of 11	

RECORD DRAWING
DATE 12-2003

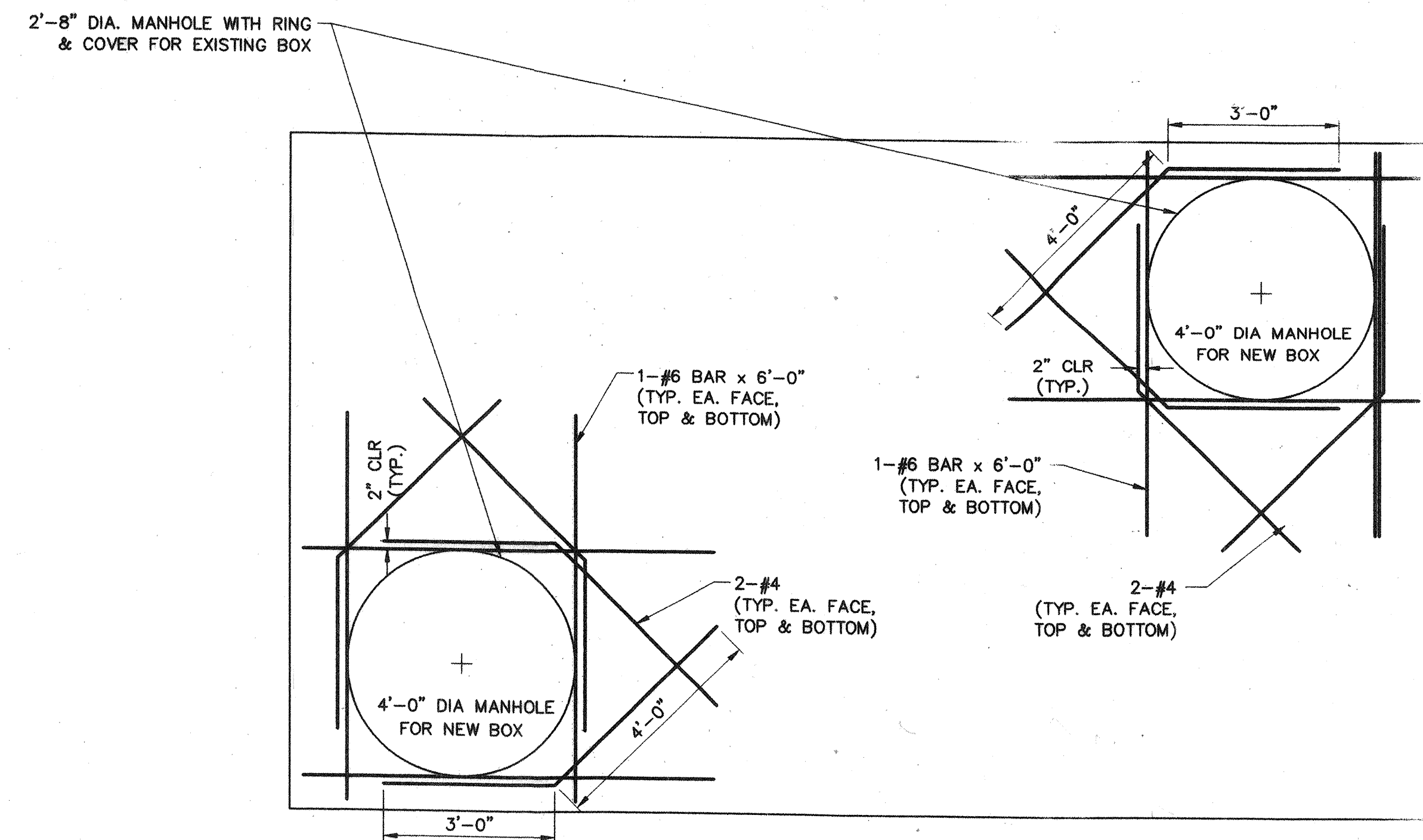
WCEA #X0218027
MAR. 2003

SCANNED BY
MESA REPRO



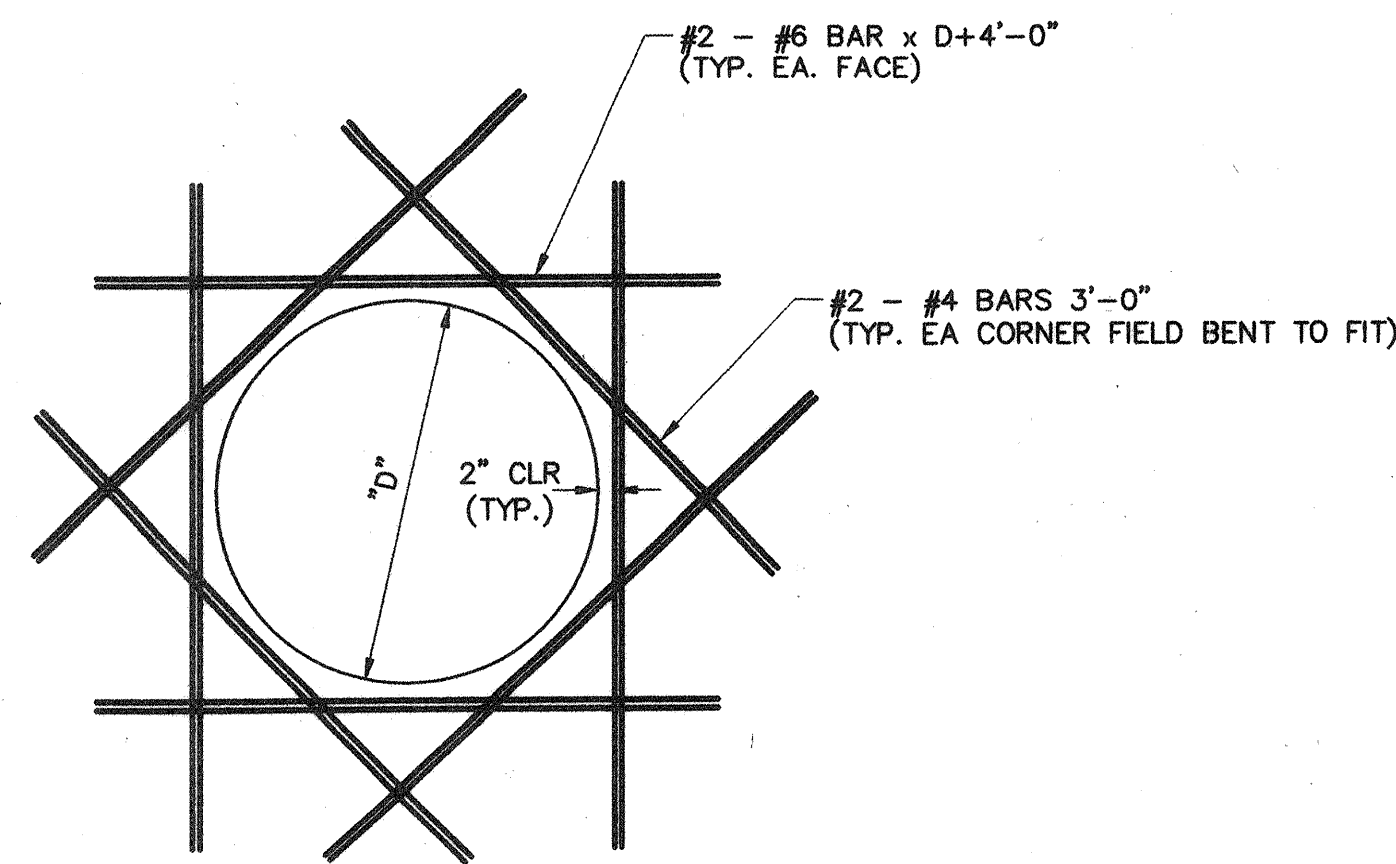
SECTION SHOWING REINFORCING

SCALE: 1"=2'



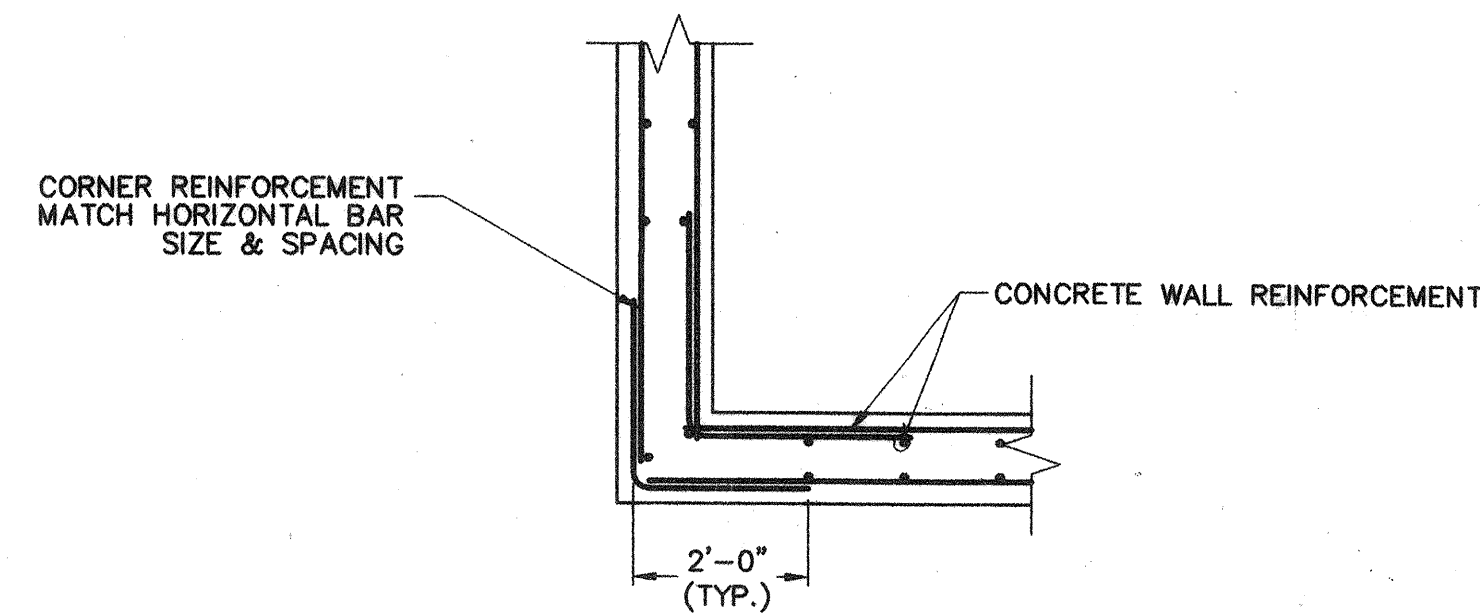
ADDITIONAL REINFORCEMENT AT MANHOLE OPENINGS DETAIL FOR NEW BOX

SCALE: 1"=2'



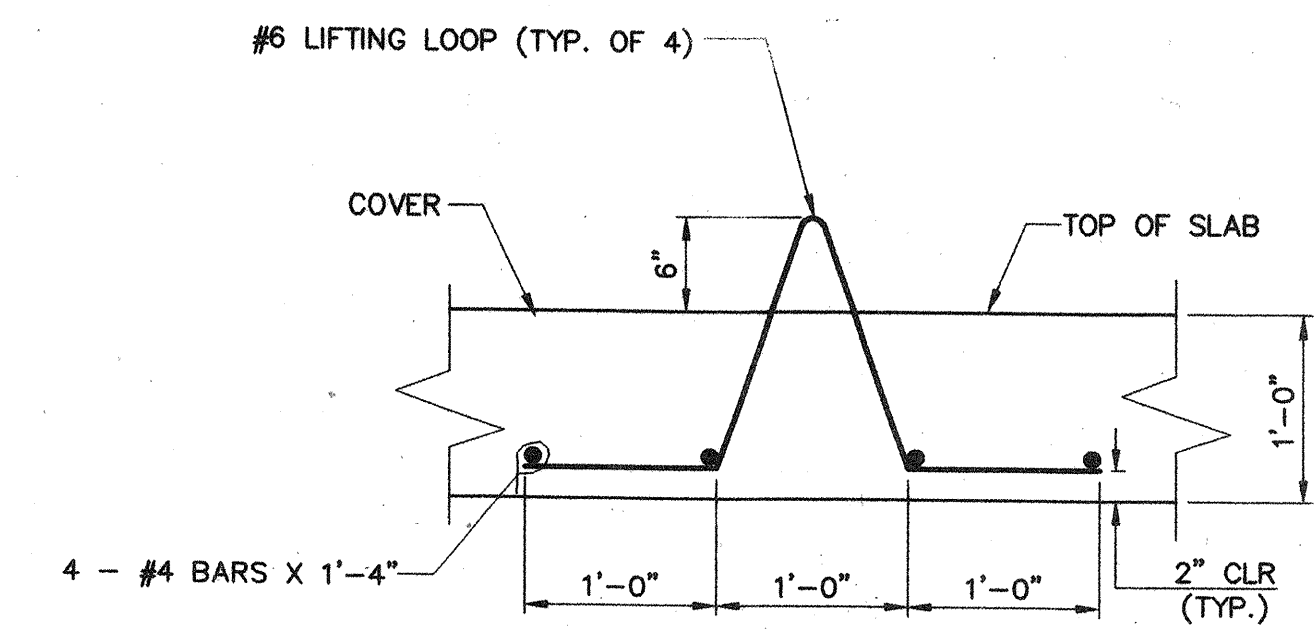
ADDITIONAL REINFORCEMENT AT PIPES DETAIL

SCALE: 1"=2'



CORNER BAR DETAIL

SCALE: 1"=2'



LIFTING LOOP

SCALE: 1"=1'

SEE PLAN SHEET 9 FOR LOCATIONS

WILSON & COMPANY 2600 THE AMERICAN ROAD S.E. SUITE 100 RIO RANCHO, NEW MEXICO 87124 (505) 898-8021	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
	WEST I-40 CHANNEL REINFORCEMENT DETAILS	
APPROVED JUN 10 2003 DESIGN REVIEW COMMITTEE	APPROVED JUL 21 2003 CITY ENGINEER	Mo./Day/Yr.
	City Project No. 695191	Zone Map No. H-10,H-11,J-10

RECORD DRAWING
DATE 12-2003

WCEA #X0218027
MAR. 2003