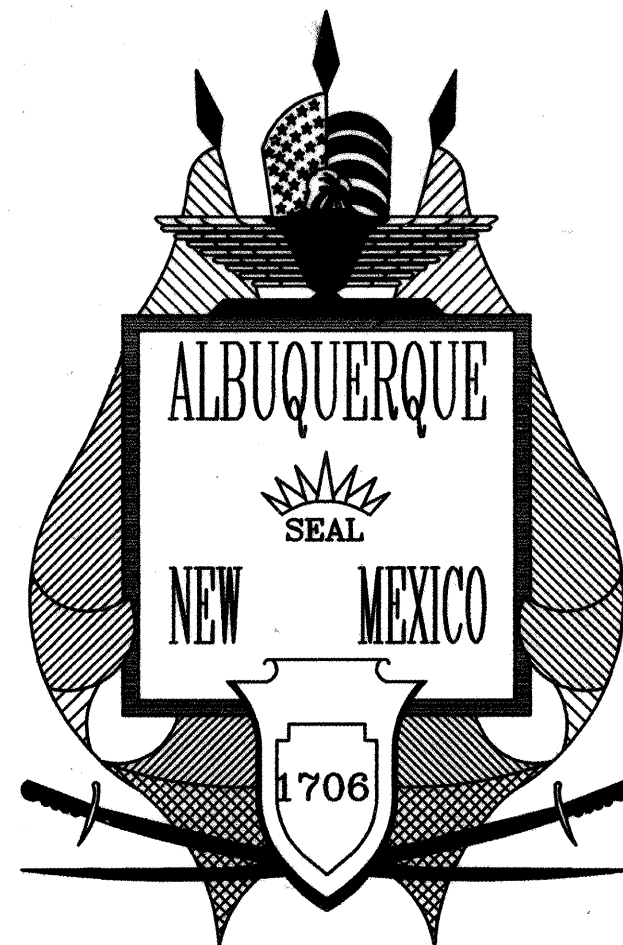


"RECORD DRAWINGS"

I CERTIFY THAT THE INFORMATION CONTAINED ON THESE DRAWINGS HAS BEEN REVISED IN ACCORDANCE WITH THE INFORMATION FURNISHED BY THE CONTRACTOR, RMCI INC. ALBUQUERQUE SURVEYING COMPANY PROVIDED THE CONSTRUCTION STAKING FOR THE PROJECT AND THIS SURVEY INFORMATION REFLECTS THE CONSTRUCTION AS ACTUALLY ACCOMPLISHED WHILE A CONSTRUCTION OBSERVER FROM THE CITY OF ALBUQUERQUE WAS PRESENT. THESE PLAN DRAWINGS, AS CONSTRUCTED, ARE IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLAN DRAWINGS.

*Douglas L. Andrews*  
DOUGLAS L. ANDREWS, PE NEW MEXICO CERTIFICATE NO. 11771

5-3-01  
DATE



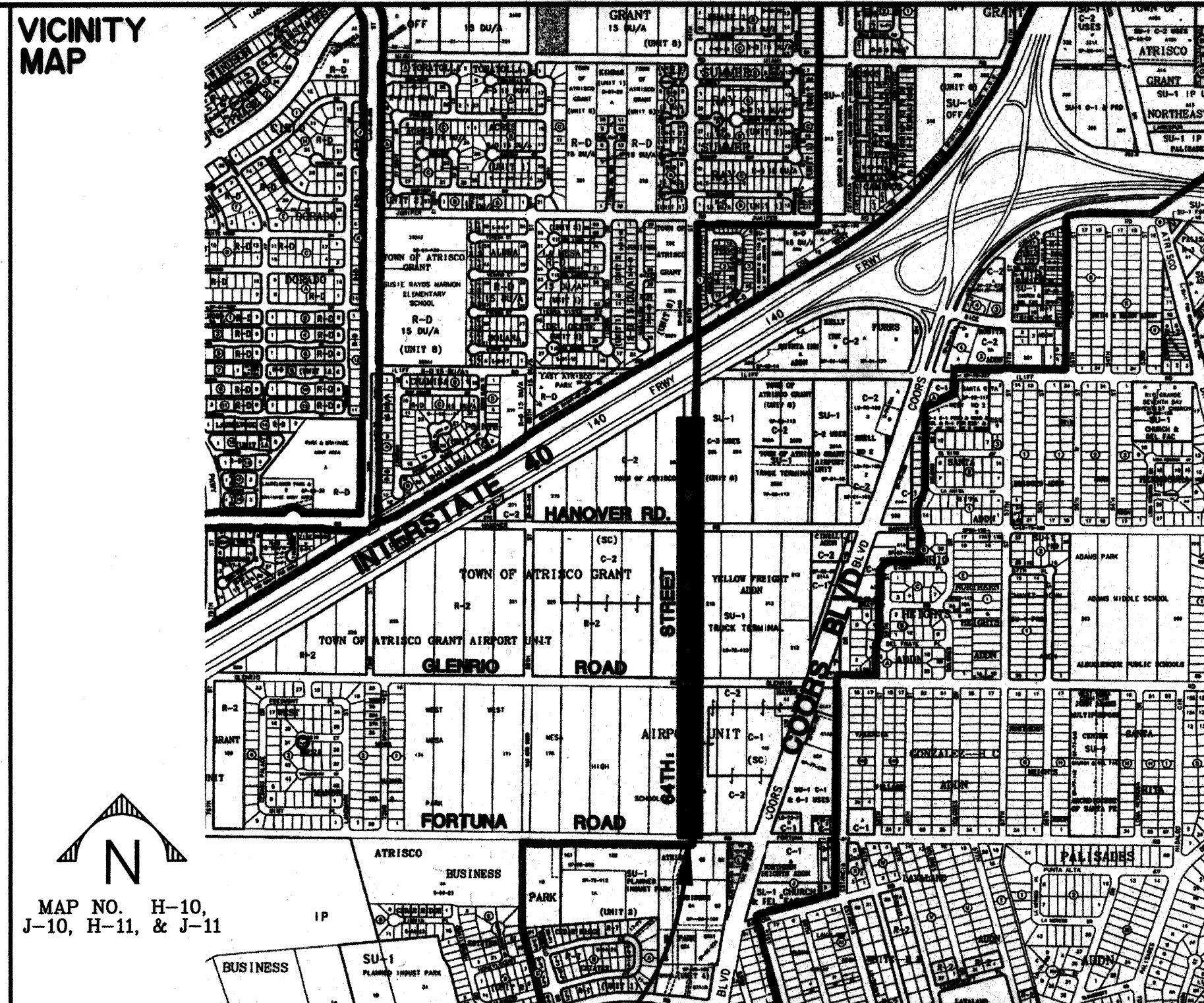
# CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT PLANS FOR CONSTRUCTION

## WEST MESA DIVERSION PROJECT PHASE 2A

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4	REMOVAL SHEET: 64TH STREET STA 19+50 TO 28+50	17	48" SAS INTERCEPTOR P & P: 64TH STREET STA 41+00 TO 41+94.61
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9	STORM DRAIN P & P: 64TH STREET STA 23+40 TO 27+80	22	TRAFFIC CONTROL PLAN PHASE 3
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11	STORM DRAIN P & P: HANOVER RD EAST	24	TRAFFIC CONTROL PLAN PHASE 5
12	STORM DRAIN P & P: HANOVER RD WEST	25	TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES
13	STORM DRAIN P & P: GLENRIO RD WEST	26	SIGNING & CONSTRUCTION TRAFFIC CONTROL STANDARDS

VICINITY  
MAP



PROJECT AREA

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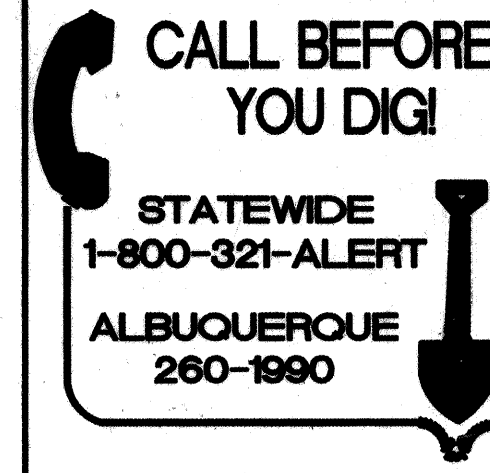
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FOR INFORMATION ONLY

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**Smith Engineering Company**  
A Full Service Engineering Company  
6000 Olympic Boulevard, S.E. Suite 2000 Albuquerque, New Mexico 87105

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVED	ENGINEER	DATE	APPROVED FOR CONSTRUCTION		
		DRG Chairman	<i>[Signature]</i>	5/10/00	<i>Roger A. Green</i> 8/10/00 CITY ENGINEER DATE		
		Transportation	<i>[Signature]</i>	8-2-00			
		Water/Wastewater	<i>[Signature]</i>	8-4-00			
		Hydrology	<i>[Signature]</i>	7-25-00			
		CIP	<i>[Signature]</i>	7-25-00			
		Constr. Mngmt.	<i>[Signature]</i>	7-27-00			
		Constr. Coord.	<i>[Signature]</i>	7-27-00			
PROJECT NUMBER				6410.91	SHEET 1 OF 26		



GENERAL NOTES:

SCANNED BY  
MEBA REPRO

- 1 FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A DETAILED CONSTRUCTION SCHEDULE TO THE CITY CONSTRUCTION COORDINATION DIVISION. TWO (2) DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF SPECIFICATIONS.
- 2 THE CONTRACTOR WILL NOTIFY THE FIELD ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK, IN ORDER THAT THE FIELD ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. THE CONTRACTOR WILL NOTIFY THE ENGINEER IF A MONUMENT IS DISTURBED. REPLACEMENT WILL BE DONE ONLY BY THE CITY OF ALBUQUERQUE SURVEY SECTION. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR WILL, AT HIS OWN EXPENSE, HAVE THE CITY SURVEY SECTION ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4 OF SPECIFICATIONS.
- 3 THE SPECIFICATIONS USED FOR THIS PROJECT ARE THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION INCLUDING ALL UPDATES THROUGH UPDATE NO. 6.
- 4 ALL NEW MANHOLES SHALL BE TYPE "E" (COA DWG. 2102) UNLESS OTHERWISE NOTED ON THE PLANS.
- 5 THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING, BUT NOT LIMITED TO HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS.
- 6 ALL EXISTING WATER VALVE BOXES AND MANHOLES IN THE STREET CONSTRUCTION ARE TO BE ADJUSTED TO FINISH GRADE AND WILL BE MEASURED AND PAID PER EACH.
- 7 SUBGRADE PREPARATION UNDER SIDEWALKS AND DRIVE PADS, AND SUBGRADE AND SUBBASE PREPARATION UNDER CURB AND GUTTER IS CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF SUCH, AND NO DIRECT PAYMENT SHALL BE MADE FOR THOSE ITEMS OF WORK.
- 8 ALL EXCAVATION WILL BE GOVERNED BY FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 9 ALL SIGNS AND CODING WILL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" CURRENT EDITION PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.
- 10 THE CONTRACTOR IS TO EXERCISE CARE TO AVOID DISTURBING ANY EXISTING UNDERGROUND UTILITIES. IT WILL BE HIS RESPONSIBILITY TO COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION. SEE SECTION 18 "UTILITIES", CITY OF ALBUQUERQUE, STANDARD SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS.
- 11 WHEN ABUTTING NEW PAVEMENT TO EXISTING PAVEMENT, SAW CUT EXISTING PAVEMENT TO A STRAIGHT LINE AND AT RIGHT ANGLES AND REMOVE ANY BROKEN OR CRACKED PAVEMENT. NO DIRECT PAYMENT WILL BE MADE FOR SAW CUTTING.
- 12 ALL GAS VALVES, GAS MANHOLES, ELECTRICAL MANHOLES, TELEPHONE MANHOLES, AND UTILITY POLES WILL BE ADJUSTED TO GRADE BY EACH UTILITY COMPANY. CONTRACTOR WILL COORDINATE THROUGH CITY UTILITY COORDINATOR.
- 13 WHEN REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK IS REQUIRED, REMOVE BACK TO NEAREST SUITABLE JOINT UNLESS OTHERWISE DIRECTED BY THE CITY FIELD ENGINEER.
- 14 THE CONTRACTOR WILL NOTIFY THE UTILITY COMPANIES BY CALLING NEW MEXICO ONE CALL SYSTEM 260-1990 TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK IN NEW AREAS.
- 15 CONTRACTOR WILL PLACE BITUMINOUS MATERIAL WITH THE USE OF A LAYDOWN MACHINE WHERE PAVEMENT IS 7 FEET IN WIDTH OR WIDER.
- 16 CONTRACTOR WILL NOT PAVE OVER ANY SURFACE FEATURE, I.E., GAS VALVE, MANHOLE COVER, ETC. WITHOUT PRIOR APPROVAL FROM THE CITY FIELD ENGINEER.
- 17 CONTRACTOR WILL CONFINE HIS WORK WITHIN THE CONSTRUCTION EASEMENT LIMITS AND/OR RIGHT-OF-WAY, OR PROVIDE COPIES OF AGREEMENTS WITH ADJACENT LANDOWNERS TO THE CITY OF ALBUQUERQUE.
- 18 MINIMUM BOTTOM WIDTH OF TRENCHES FOR RIGID PIPE SHALL BE EQUAL TO THE OUTSIDE DIAMETER PLUS 16 INCHES. BEDDING MATERIAL SHALL BE CLASS II, III, OR IV UNLESS OTHERWISE SPECIFICALLY NOTED ON THE PLANS.
- 19 MINIMUM BOTTOM WIDTH OF TRENCHES FOR NON-RIGID PIPE SHALL BE EQUAL TO THE OUTSIDE DIAMETER PLUS 12 INCHES. BEDDING MATERIAL SHALL BE CLASS I, II, OR III.
- 20 THE CONTRACTOR AGREES TO TAKE NECESSARY SAFETY PRECAUTIONS AS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES TO PROTECT PEDESTRIAN AND VEHICULAR TRAFFIC IN THE CONSTRUCTION AREA, WHICH INCLUDE BUT ARE NOT LIMITED TO: MAINTAINING ADEQUATE WARNING SIGNS, BARRICADES, LIGHTS, GUARD FENCES, WALKS AND BRIDGES.
- 21 THE CONTRACTOR SHALL CONSTRUCT CITY OF ALBUQUERQUE STANDARD WHEELCHAIR RAMPS THAT CONFORM TO CURRENT ADA REQUIREMENTS.

- 22 PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL CONFLICTING UTILITIES. SHOULD A CONFLICT EXIST BETWEEN THE FIELD INFORMATION AND THE PLANS, THE CONTRACTOR WILL NOTIFY THE CITY FIELD ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
- 23 THE REPLACEMENT OF THE EXISTING UTILITIES AND THE INSTALLATION OF NEW UTILITY LINES WILL BE COMPLETED IN ADVANCE OF STARTING THE PAVEMENT WORK. TEMPORARY PAVEMENT WILL BE PLACED IN ALL TRENCHES REQUIRED FOR THE UTILITY REPLACEMENTS IN THOSE AREAS THAT MUST MAINTAIN TRAFFIC UNTIL THE FINAL PAVEMENT WORK STARTS IN EACH AREA. TEMPORARY STRIPING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. MAINTENANCE OF THE TEMPORARY PAVING AND STRIPING WILL BE AT THE CONTRACTOR'S EXPENSE.
- 24 TACK COAT FOR SURFACE COURSE REQUIREMENTS WILL BE DETERMINED BY THE CITY FIELD ENGINEER.
- 25 BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- 26 ALL NEW STREET PAVING, DRIVEWAYS, SIDEWALKS, AND CURB AND GUTTERS, ABUTTING EXISTING AREAS SHALL MATCH THE ELEVATION OF THOSE AREAS.
- 27 PERMANENT PAVEMENT STRIPING AND MARKINGS WILL BE PLACED BY THE CONTRACTOR. ROAD SHALL NOT BE OPENED TO TRAFFIC UNTIL IT IS STRIPED. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, ARROWS AND LINE MARKINGS ARE TO BE CONSTRUCTED OF HOT PLASTIC OR COLD PLASTIC IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 28 ALL EXCAVATED MATERIAL THAT IS NOT REQUIRED TO BE REUSED MUST BE REMOVED FROM THE PROJECT AREA WITHIN FOUR DAYS OF EXCAVATION. SPOIL PILES WILL BE ALLOWED ONLY AS DIRECTED BY THE CITY FIELD ENGINEER.
- 29 THE CONTRACTOR WILL COORDINATE THE CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE THEIR ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCE CAUSED BY UTILITY COMPANY WORK CREWS. A CONTRACT EXTENSION MAY BE ALLOWED AS DELINEATED IN CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS.
- 30 EXISTING MEDIAN CURB AND GUTTER AND STANDARD CURB AND GUTTER, NOT DISTURBED BY CONTRACTOR, BUT OUT OF ALIGNMENT, DISPLACED VERTICALLY, BADLY BROKEN AND/OR DETERIORATED, WILL BE REPLACED AS DIRECTED BY THE CITY FIELD ENGINEER AND PAID FOR AT CONTRACT UNIT PRICES.
- 31 ALL TRAFFIC CONTROL DEVICES REQUIRED FOR DRIVEWAY CLOSURES, UTILITY CONSTRUCTION OR FOR OTHER REASONS AND NOT SHOWN ON THE SIGNING PLANS WILL BE FURNISHED BY THE CONTRACTOR AND WILL BE PAID AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS AND BID PROPOSAL. PRIOR TO PLACING THE TRAFFIC CONTROL DEVICES, THE CONTRACTOR WILL NOTIFY THE AFFECTED OWNERS IN ACCORDANCE WITH THE SPECIFICATIONS. CONTRACTOR MUST MAKE PROVISIONS TO PROVIDE ACCESS TO PROPERTIES. REFER TO SECTION 19 OF THE SPECIFICATIONS.
- 32 ALL UTILITY LINES WHICH ARE NOT SPECIFICALLY DESIGNATED TO BE REMOVED AND REPLACED ON THE PLANS, WILL BE MAINTAINED IN SERVICE. SHORING, SHEETING AND OTHER MEANS OF SUPPORT SHALL BE EMPLOYED BY THE CONTRACTOR TO PREVENT DAMAGE OR LOSS OF THESE EXISTING UTILITIES. BEAM AND CABLE OR OTHER ADEQUATE SUPPORTS WILL BE USED FOR TEMPORARY SUPPORT OF ALL UTILITY LINES WHICH CROSS THE TRENCH. ANY DAMAGE TO EXISTING UTILITIES WILL PROMPTLY BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR WILL NOTIFY THE ENGINEER IMMEDIATELY OF ANY SIGNIFICANT DEVIATION OF EXPOSED UTILITIES FROM THE LOCATIONS SHOWN ON THE PLANS SO THAT CONFLICTS CAN BE RESOLVED IN A TIMELY MANNER.
- 33 THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING COA INFRASTRUCTURE (C & G, PAVING, ETC.) DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND WILL REPAIR OR REPLACE SAME AT HIS OWN EXPENSE. HE WILL SUITABLY PROTECT THE CURB AND GUTTER FROM INCIDENTAL SPLASHING DURING THE TACK COAT APPLICATION AND WILL BE RESPONSIBLE FOR CLEANING SAME AT HIS OWN COST SHOULD SPLASHING OCCUR.
- 34 ALL INTERFERING PORTIONS OF ABANDONED UTILITY LINES WHICH ARE EXPOSED AS A RESULT OF CONSTRUCTION WILL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- 35 SHORING COSTS WILL BE CONSIDERED INCIDENTAL TO THE TRENCH AND BACKFILL COSTS.
- 36 THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURING NPDES PERMITS REQUIRED BY APPLICABLE CITY, STATE, AND FEDERAL REGULATIONS.
- 37 THE TERM REMOVE USED IN THIS PLAN SET INCLUDES THE DISPOSAL OF SAID MATERIAL IN ACCORDANCE WITH CITY OF ALBUQUERQUE SPECIFICATIONS, LATEST EDITION.
- 38 ALL ASPHALTIC CONCRETE SHALL BE MINIMUM 1800 LB. STABILITY AND COMPACTED TO 95% MODIFIED MARSHALL DENSITY UNLESS OTHERWISE NOTED ON THE PLANS.
- 39 ALL STRUCTURAL CONCRETE TO BE 4000 PSI UNLESS OTHERWISE NOTED ON PLANS.
- 40 ALL REINFORCING STEEL TO BE GRADE 60 UNLESS OTHERWISE NOTED ON PLANS.

- 41 STATIONS OF STORM DRAIN INLETS ARE TO THE CENTER OF GRATE. ALL STORM DRAIN INLETS WILL BE TYPE "A" UNLESS OTHERWISE NOTED ON THE PLANS.
- 42 ALL STORM DRAIN AND CONNECTOR PIPE WILL BE CLASS IV REINFORCED CONCRETE PIPE UNLESS OTHERWISE NOTED ON THE PLANS.
- 43 EXCESS EXCAVATION REQUIRED TO CONSTRUCT THE PROJECT THAT DOES NOT HAVE A CORRESPONDING BID ITEM (ie: EXCAVATION OF SUBGRADE OR DIRT) SHALL BE REMOVED AND DISPOSED OF AT NO ADDITIONAL COST TO THE OWNER AND WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- 44 EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650.
- 45 CONTRACTOR IS ADVISED TO VISIT THE PROJECT SITE PRIOR TO BIDDING AND FAMILIARIZE THEMSELVES WITH FIELD CONDITIONS INCLUDING THE LOCATION OF UTILITIES SHOWN ON THE PLANS AND OHER UTILITIES/ OBSTACLES CLEARLY VISIBLE IN THE FIELD. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PLAN THEIR CONSTRUCTION METHODS TO ADEQUATELY SUPPORT AND/OR AVOID ALL UTILITIES SHOWN ON THE PLANS AND ALL UTILITIES/OBSTRUCTIONS CLEARLY VISIBLE IN THE FIELD. ANY RELOCATION OF UTILITIES OBSTACLES SHOWN ON THE PLANS OR VISIBLE IN THE FIELD IN ORDER TO COMPLETE THE REQUIRED WORK WILL BE CONSIDERED TO BE CONTRACTOR CONVENIENCE AND BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS THE UTILITY/OBSTRUCTION IS IDENTIFIED ON THE PLANS AS BEING RELOCATABLE AS PART OF THE PROJECT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL REQUIRED RELOCATIONS WITH APPROPRIATE UTILITIES/INDIVIDUALS.
- 46 CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

HANOVER RD. CONSTRUCTION CL  
EAST OF 64TH STREET  
SURVEY CONTROL INFORMATION

STATION	NORTHING	EASTING
10+00.00	1492572.04	362317.97
15+00.00	1492566.71	362817.93
23+00.00	1492558.18	363617.89

HANOVER RD. CONSTRUCTION CL  
WEST OF 64TH STREET  
SURVEY CONTROL INFORMATION

STATION	NORTHING	EASTING
10+00.00	1492572.04	362317.97
15+00.00	1492577.37	361817.99
22+00.00	1492584.84	361118.03

GLENRIO RD. CONSTRUCTION CL  
WEST OF 64TH STREET  
SURVEY CONTROL INFORMATION

STATION	NORTHING	EASTING
10+00.00	1491474.35	362306.38
15+00.00	1491479.71	361806.41
27+00.00	1491492.57	360606.48

FORTUNA RD. CONSTRUCTION CL  
SURVEY CONTROL INFORMATION

STATION	NORTHING	EASTING
10+00.00	1490377.81	362294.81
20+00.00	1490389.48	361294.88
45+86.55	1490419.65	358708.50

64TH ST. CONSTRUCTION CL  
SURVEY CONTROL INFORMATION

STATION	NORTHING	EASTING
10+00.00	1493594.03	362328.75
20+00.00	1492594.08	362318.20
30+00.00	1491594.14	362307.64
42+16.39	1490377.81	362294.81

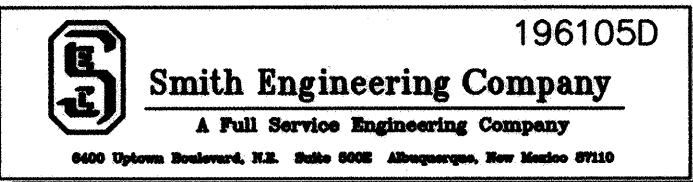
LOCAL SURVEY CONTROL INFORMATION

POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION	64TH ST. CONSTRUCTION CL STATION AND OFFSET	90' DRAINAGE EASEMENT CL STATION AND OFFSET	HANOVER RD. CONSTRUCTION CL EAST OF 64TH ST. STATION AND OFFSET	HANOVER RD. CONSTRUCTION CL WEST OF 64TH ST. STATION AND OFFSET	GLENRIO RD. CONSTRUCTION CL WEST OF 64 TH ST. STATION AND OFFSET	GLENRIO RD. CONSTRUCTION CL EAST OF 64TH ST. STATION AND OFFSET	FORTUNA RD. CONSTRUCTION CL STATION AND OFFSET	LOS VOLCANES RD. CONSTRUCTION CL STATION AND OFFSET
CP-2	1493542.47	362274.43	5107.02	NO. 5 REBAR & PLASTIC CAP "CONTROL PT. NMPS 11599"	10+52.13, 53.77' RT	N/A	N/A	10+53.88, 969.91' RT	N/A	N/A	N/A	N/A
CP-3	1492986.46	362175.55	5102.62	NO. 5 REBAR & PLASTIC CAP "CONTROL PT. NMPS 11599"	16+09.15, 146.78' RT	N/A	N/A	11+46.82, 412.87' RT	N/A	N/A	N/A	N/A
CP-4	1492546.11	362303.73	5100.55	NO. 5 REBAR & PLASTIC CAP "CONTROL PT. NMPS 11599"	20+48.12, 13.96' RT	N/A	N/A	10+13.96, 26.08' LT	N/A	N/A	N/A	N/A
CP-5	1491435.57	362333.26	5099.28	NO. 5 REBAR & PLASTIC CAP "CONTROL PT. NMPS 11599"	31+58.29, 27.29' LT	N/A	N/A	N/A	N/A	10+27.30, 38.49' RT	N/A	N/A
CP-6	1491503.45	361341.88	5100.74	NO. 5 REBAR & PLASTIC CAP "CONTROL PT. NMPS 11599"	31+00.87, 964.75' RT	N/A	N/A	N/A	19+64.75, 18.76' RT	N/A	N/A	N/A
CP-7	1490400.35	362339.69	5097.07	NO. 5 REBAR & PLASTIC CAP "CONTROL PT. NMPS 11599"	41+93.38, 44.65' LT	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CP-17	1492588.88	362900.08	5095.50	NO. 5 REBAR & PLASTIC CAP "CONTROL PT. NMPS 11599"	19+99.06, 581.91' LT	N/A	15+81.91, 23.04' LT	N/A	N/A	N/A	N/A	N/A

LEGEND:

- X—X— EXISTING CHAIN LINK FENCE
- OHE--- EXISTING OVERHEAD ELECTRIC
- EX 2" HP GAS— EXISTING 2" HP GAS
- ===== EXISTING 48" SAS
- EX 10" SAS— EXISTING SAS
- EX UT--- EXISTING UNDERGROUND TELEPHONE
- EX 10" WL--- EXISTING WATER
- EX 18" SD--- EXISTING STORMDRAIN
- EXISTING BLOCK WALL
- ⊗ EXISTING WATER VALVE
- EXISTING CATCH BASIN
- W.M. EXISTING WATER METER
- EXISTING MANHOLE
- NEW MANHOLE
- NEW JUNCTION BOX
- ⊙ EXISTING FIRE HYDRANT
- ⊙ EXISTING LIGHT POLE
- ||||| NEW ASPHALT PAVEMENT
- ⊗ EXISTING TRAFFIC LIGHT
- ||||| EXISTING ASPHALT PAVEMENT
- C.O.A. CITY OF ALBUQUERQUE
- x 06.8 EXISTING SPOT ELEVATION
- 5100--- EXISTING CONTOUR LINE
- ☁ EXISTING TREE
- ==== NEW STORM DRAIN
- CENTERLINE
- 85.00' TOP OF ASPHALT ELEVATION
- ▨ EXISTING BUILDING
- ===== EXISTING CURB AND GUTTER
- ▲ SURVEY CONTROL POINT
- ⊥ EXISTING SIGN
- ROW--- ROW
- ESMNT--- EXISTING EASEMENT LINE
- PL--- PROPERTY LINES
- PROPOSED EASEMENT LINE
- PROPOSED CONTOURS
- W— PROPOSED WATERLINE
- ⊗ PROPOSED WATERLINE VALVE
- PROPOSED WATERLINE BEND
- ⊙ PROPOSED FIRE HYDRANT

FOR INFORMATION ONLY



CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

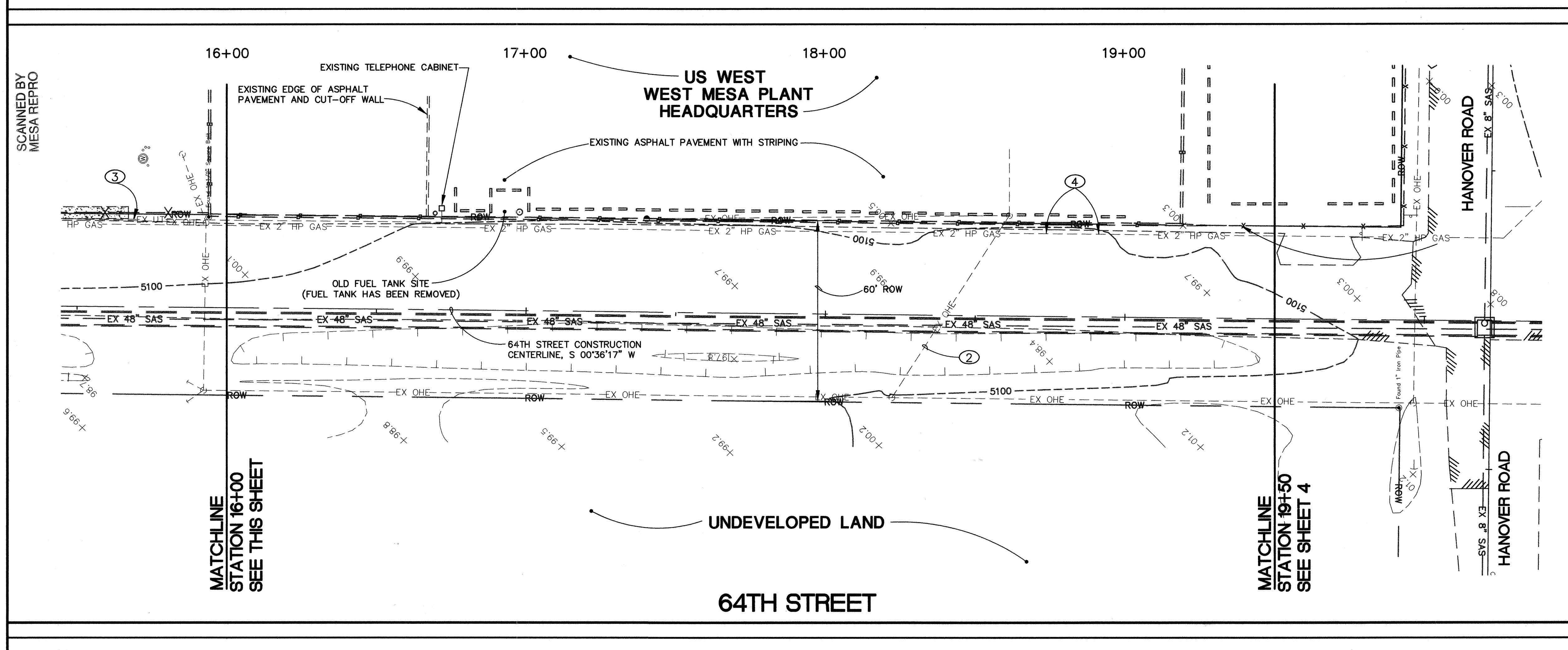
TITLE: WEST MESA DIVERSION PROJECT PHASE 2A

GENERAL NOTES, LEGEND

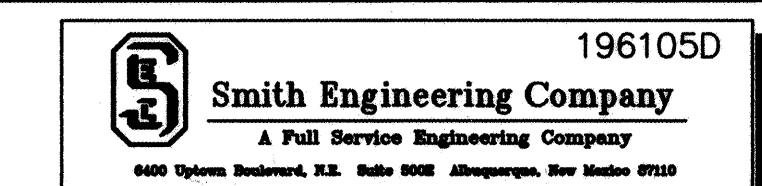
Design Review Committee APPROVED AUG 10 2000 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED AUG 10 2000 CITY ENGINEER	No. / Day / Yr. 	No. / Day / Yr. 

City Project No. 641091	Zone Map No. J-10	Sheet 2	Of 26
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1. CONTRACTOR SHALL PERFORM ALL REMOVAL WORK WITHIN CITY OF ALBUQUERQUE RIGHT OF WAY EXCEPT FOR MEL LAHR'S STORAGE PARK FROM 12+47.10 TO 14+00±.
2. ANY DAMAGE TO ITEMS ON PRIVATE PROPERTY DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

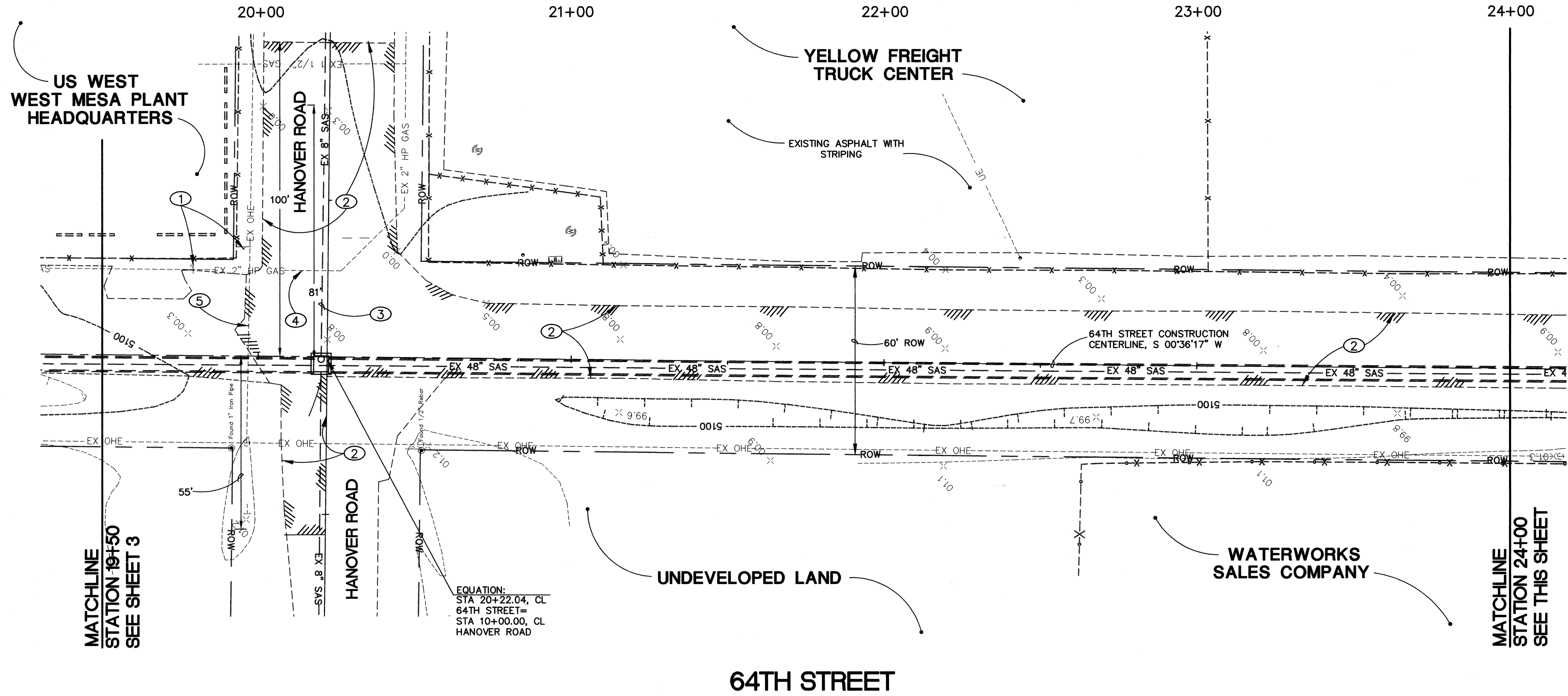


CITY OF ALBUQUERQUE									
PUBLIC WORKS DEPARTMENT									
ENGINEERING DEVELOPMENT GROUP									
TITLE: WEST MESA DIVERSION PROJECT PHASE 2A									
REMOVAL SHEET: 64TH STREET: STA. 12+47.10 TO 19+50									

<b>Design Review Committee</b> 		<b>City Engineer Approval</b> 		<b>Last Design Update</b>	No. / Day / Yr.	
<b>City Project No.</b> 641091		<b>Zone Map No.</b> J-10		<b>Sheet</b> 3		<b>Of</b> 26

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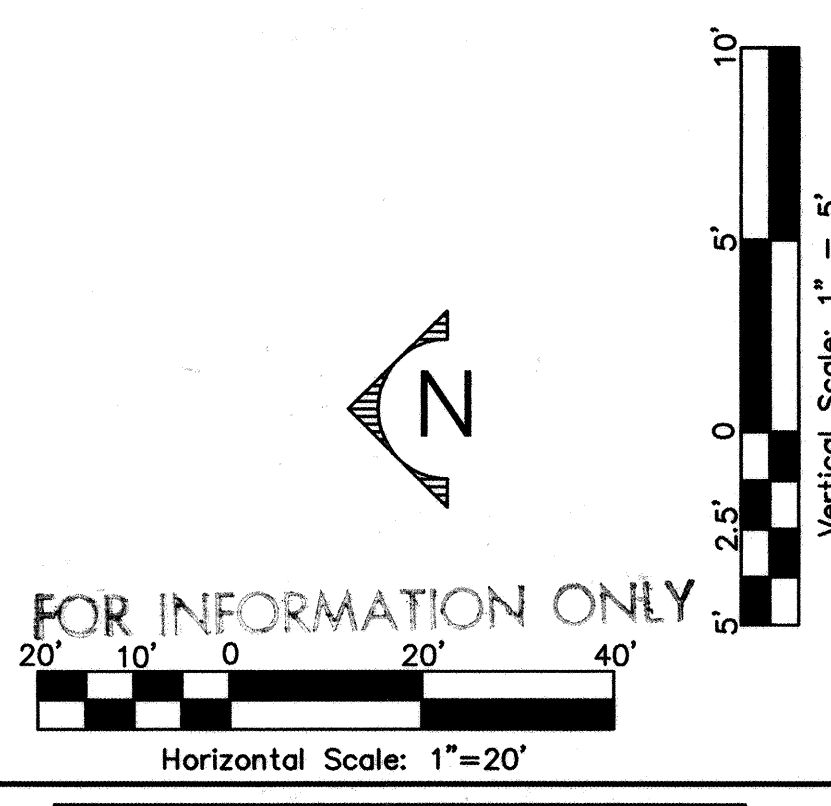
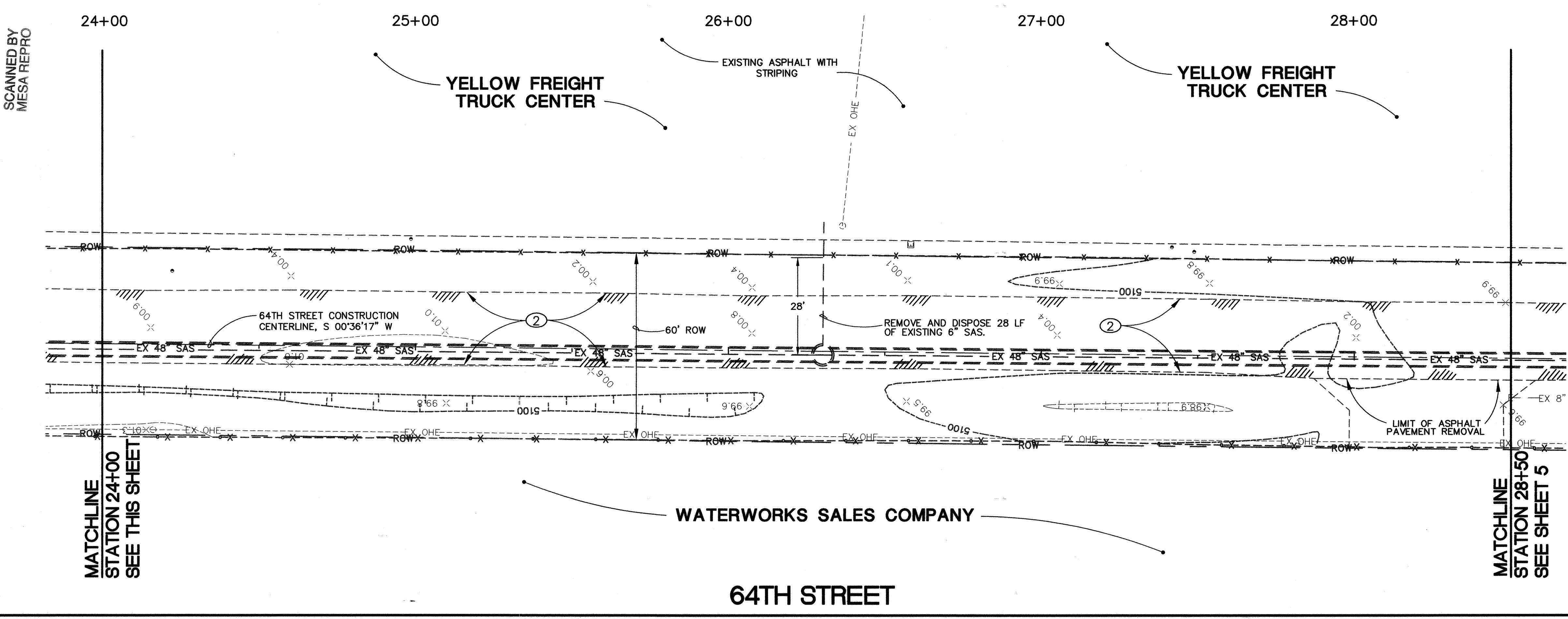


KEYED NOTES:

- 1 REMOVE AND STORE EXISTING STREET SIGN. REINSTALL SIGN WHEN TRENCHING AND BACKFILLING IS COMPLETE.
- 2 REMOVE AND DISPOSE EXISTING ASPHALT PAVEMENT TO LIMITS SHOWN. INSTALL NEW ASPHALT PAVEMENT (PER THE PAVEMENT SECTION SHOWN ON DETAIL SHEET 18) WHEN CONSTRUCTION IN THE AREA IS COMPLETE. CONTRACTOR TO MATCH EXISTING GRADES WHEN REPLACING EXISTING ASPHALT. ALL STRIPING SHALL BE REINSTALLED AND IS CONSIDERED INCIDENTAL TO ASPHALT REPLACEMENT.
- 3 REMOVE AND DISPOSE 81 LF 8" SAS. SEE HANOVER ROAD EAST PLAN AND PROFILE SHEET FOR REPLACEMENT OF 8" SAS.
- 4 PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH PNM-GAS (ALBERTO LANDAYAZO 241-7778) FOR TEMPORARY RELOCATION OF EXISTING UNDERGROUND GAS LINES.  
**NOTE PNM-GAS REQUIRES 4 WEEKS TO SCHEDULE CREWS TO PERFORM THE RELOCATION WORK.**
- 5 PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH PNM-ELECTRIC (WILLIE TORRES 241-3318) FOR TEMPORARY RELOCATION OF EXISTING OVERHEAD ELECTRICAL LINES AND POLES.  
**NOTE PNM-ELECTRIC REQUIRES 4 WEEKS TO SCHEDULE CREWS TO PERFORM THE RELOCATION WORK.**

GENERAL REMOVAL NOTES:

1. CONTRACTOR SHALL PERFORM ALL REMOVAL WORK WITHIN CITY OF ALBUQUERQUE RIGHT OF WAY.
2. ANY DAMAGE TO ITEMS ON PRIVATE PROPERTY DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

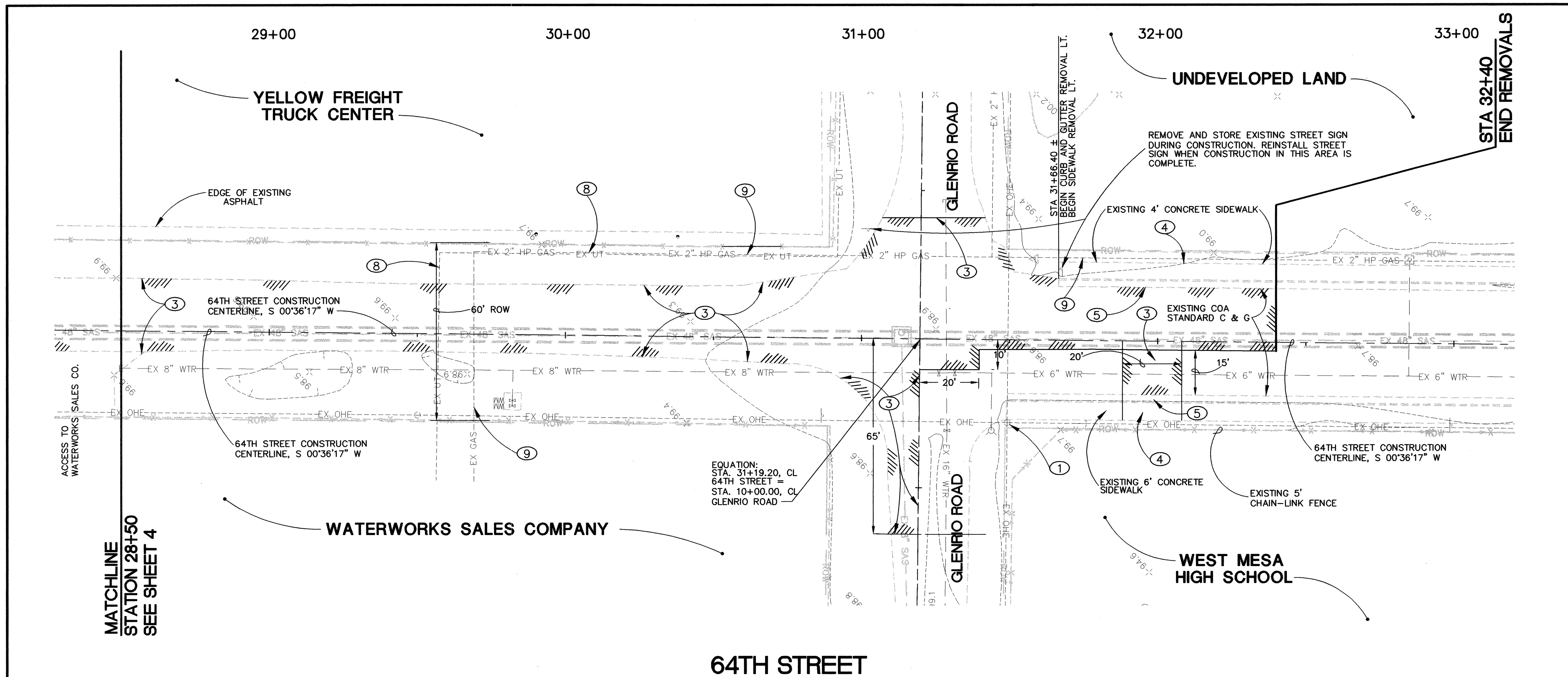


1961050  
Smith Engineering Company  
A Full Service Engineering Company  
6000 Optima Boulevard, N.E. Suite 2000 Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: WEST MESA DIVERSION PROJECT PHASE 2A REMOVAL SHEET: 64TH STREET: STA. 19+50 TO 28+50	
Design Review Committee APPROVED AUG 10 2000 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED AUG 10 2000 CITY ENGINEER
City Project No. 6410.91	Zone Map No. J-10
Sheet 4	Of 26



SCANNED BY  
MESA REPRO



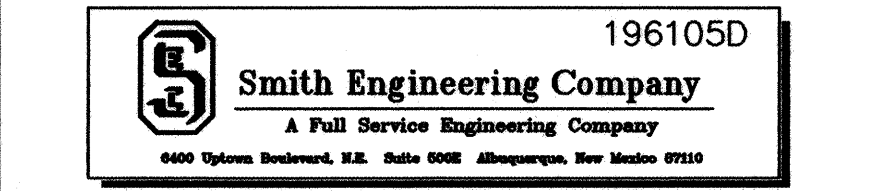
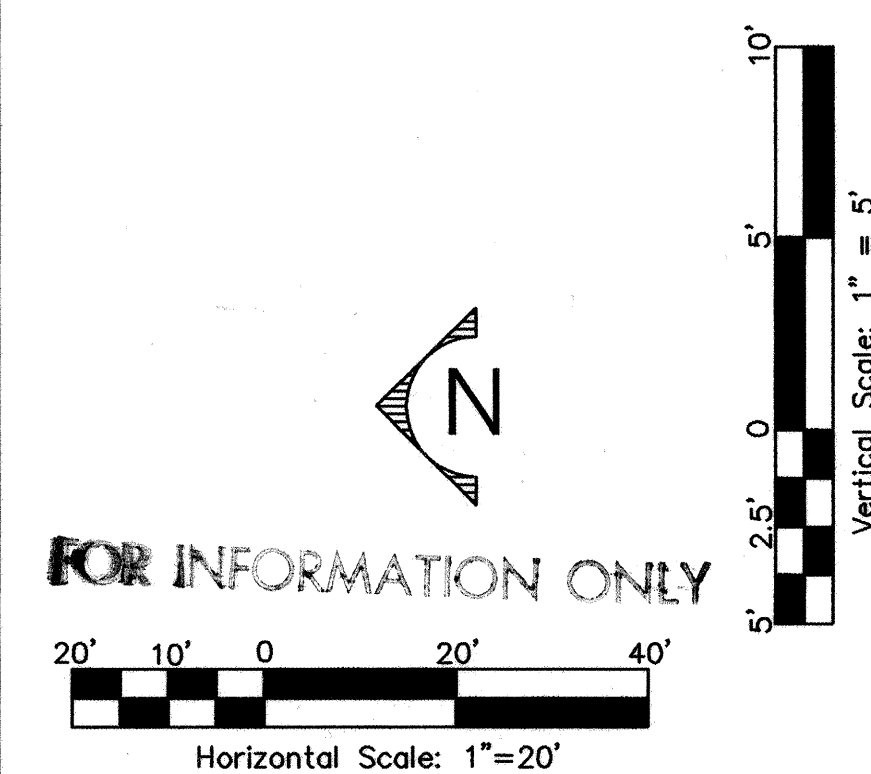
64TH STREET

# KEYED NOTES:

1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH PNM-ELECTRIC (WILLIE TORRES 241-3318) FOR TEMPORARY RELOCATION OF EXISTING OVERHEAD ELECTRICAL LINES AND POLES.  
**NOTE: PNM-ELECTRIC REQUIRES 4 WEEKS TO SCHEDULE CREWS TO PERFORM THE RELOCATION WORK.**
2. NOT USED
3. REMOVE AND DISPOSE EXISTING ASPHALT PAVEMENT TO LIMITS SHOWN. INSTALL NEW ASPHALT PAVEMENT PER THE PAVEMENT SECTION SHOWN ON SHEET 18 WHEN CONSTRUCTION IN THE AREA IS COMPLETE. CONTRACTOR TO MATCH EXISTING GRADES.
4. REMOVE AND DISPOSE EXISTING SIDEWALK TO LIMITS SHOWN. INSTALL NEW SIDEWALK (PER COA STD. DWG 2430) WHEN TRENCHING AND BACKFILLING IN THE AREA IS COMPLETE. CONTRACTOR TO MATCH EXISTING GRADES.
5. REMOVE AND DISPOSE EXISTING STANDARD CURB AND GUTTER TO LIMITS SHOWN. INSTALL NEW STANDARD CURB AND GUTTER (PER COA STD. DWG 2415) WHEN TRENCHING AND BACKFILLING IN THE AREA IS COMPLETE. CONTRACTOR TO MATCH EXISTING GRADES.
6. NOT USED
7. NOT USED
8. CONTRACTOR SHALL COORDINATE WITH US WEST (JOSEPH MARTINEZ 245-6984) FOR SUPPORT OF EXISTING TELEPHONE LINE.
9. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH PNM-GAS (ALBERTO LANDAYAZO 241-7778) FOR TEMPORARY RELOCATION OF EXISTING UNDERGROUND GAS LINES.  
**NOTE: PNM-GAS REQUIRES 4 WEEKS TO SCHEDULE CREWS TO PERFORM THE RELOCATION WORK.**

## GENERAL REMOVAL NOTES:

1. CONTRACTOR SHALL PERFORM ALL REMOVAL WORK WITHIN CITY OF ALBUQUERQUE RIGHT OF WAY.
2. ANY DAMAGE TO ITEMS ON PRIVATE PROPERTY DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
3. FOR WATERLINE REMOVAL INFORMATION, SEE PLAN AND PROFILE SHEETS.



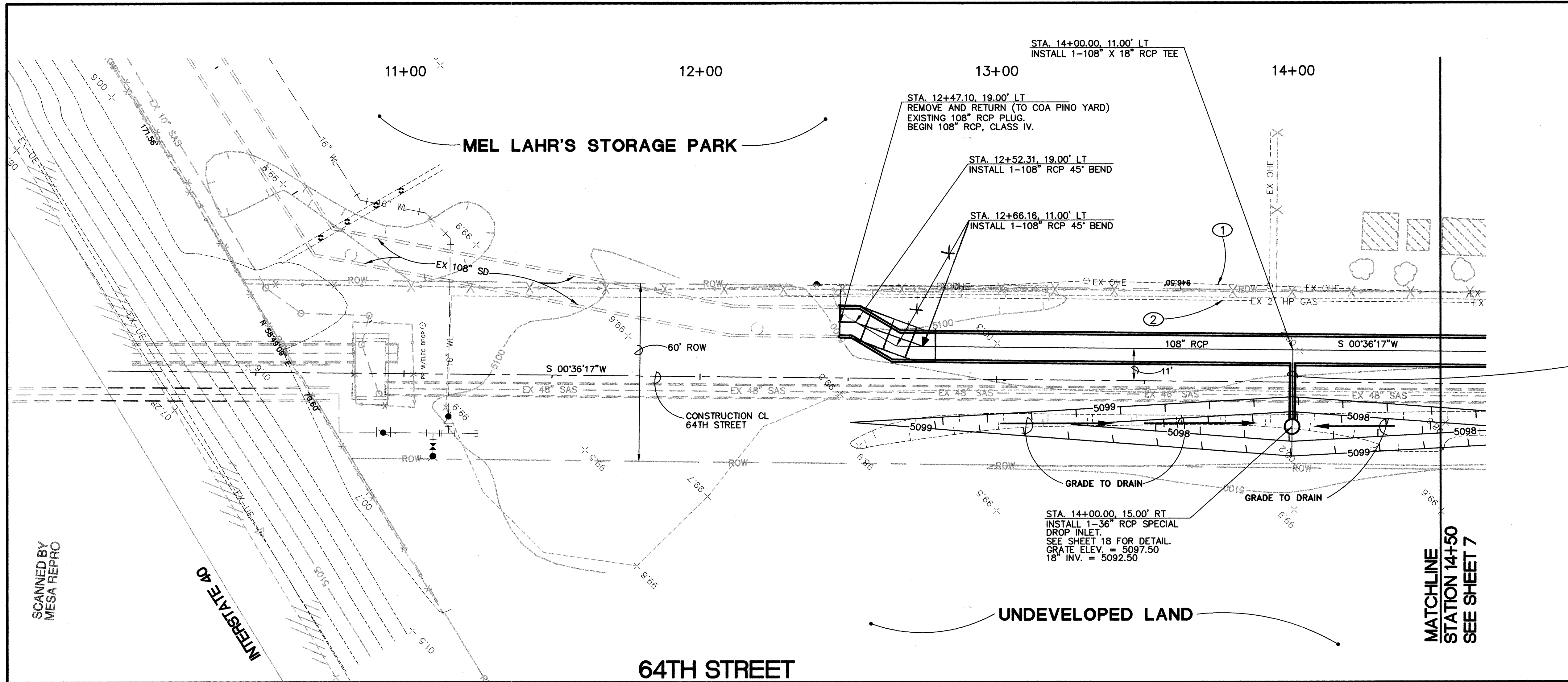
CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

TITLE: WEST MESA DIVERSION PROJECT PHASE 2A  
REMOVAL SHEET: 64TH STREET: STA. 28+50 TO 32+40

Design Review Committee	City Engineer Approval	No. / Day / Yr.	No. / Day / Yr.
APPROVED AUG 10 2000	APPROVED AUG 10 2000		
Design	Design		
City Project No. 641091	Zone Map No. J-10	Sheet 5	OF 26

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL	
CONTRACTOR	DATE	STATION	ELEV.	NO.	DATE	NO.	DATE
CONTRACTOR: RDC, INC.	DATE: 4-01	STATION: 3.5 MILES NW OF DOWNTOWN ALBUQUERQUE, AT THE HIGHWAY I-40 AND STATE ROAD 448 (COORS RD., NW) INTERCHANGE.	ELEV. 5103.98 FEET (SLD 1929)				
INSPECTOR'S NAME: [Signature]	DATE: 4-01	STANDARD: STANDARD NMHC BRASS TABLET, STAMPED "STA 1-40-18" SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494859.08, E 364150.93)					
VERIFICATION BY: [Signature]	DATE: 4-01						
CORRECTED BY: [Signature]	DATE: 4-01						
RECORDED BY: [Signature]	DATE: 4-01						
NO.							





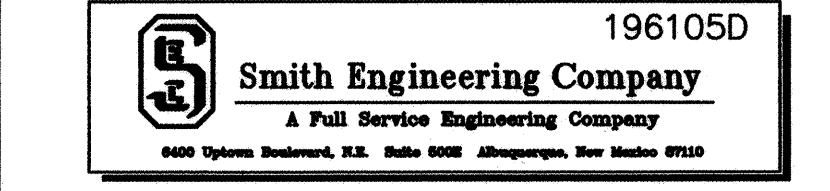
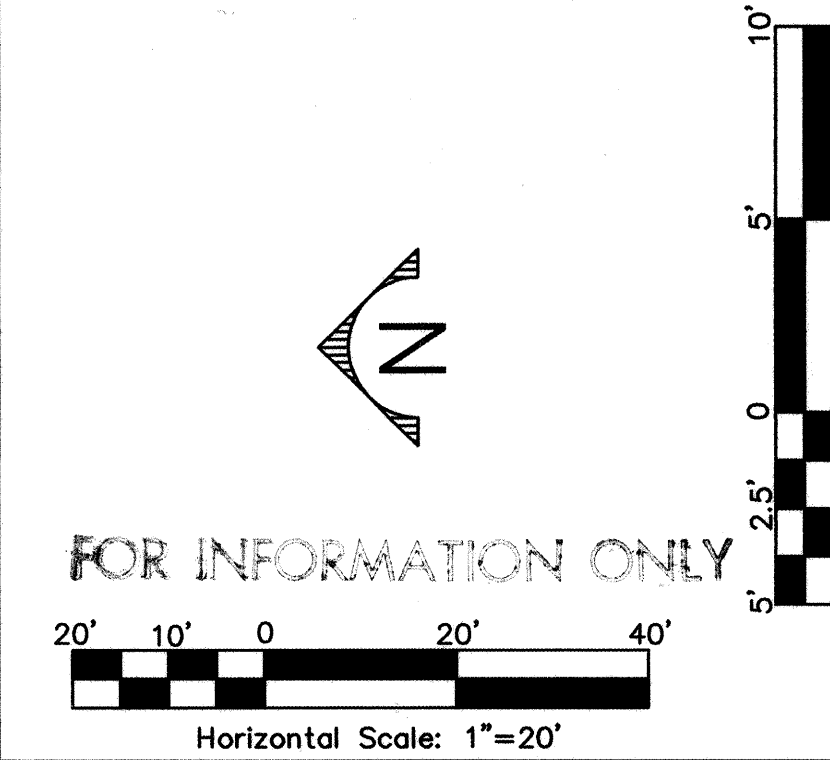
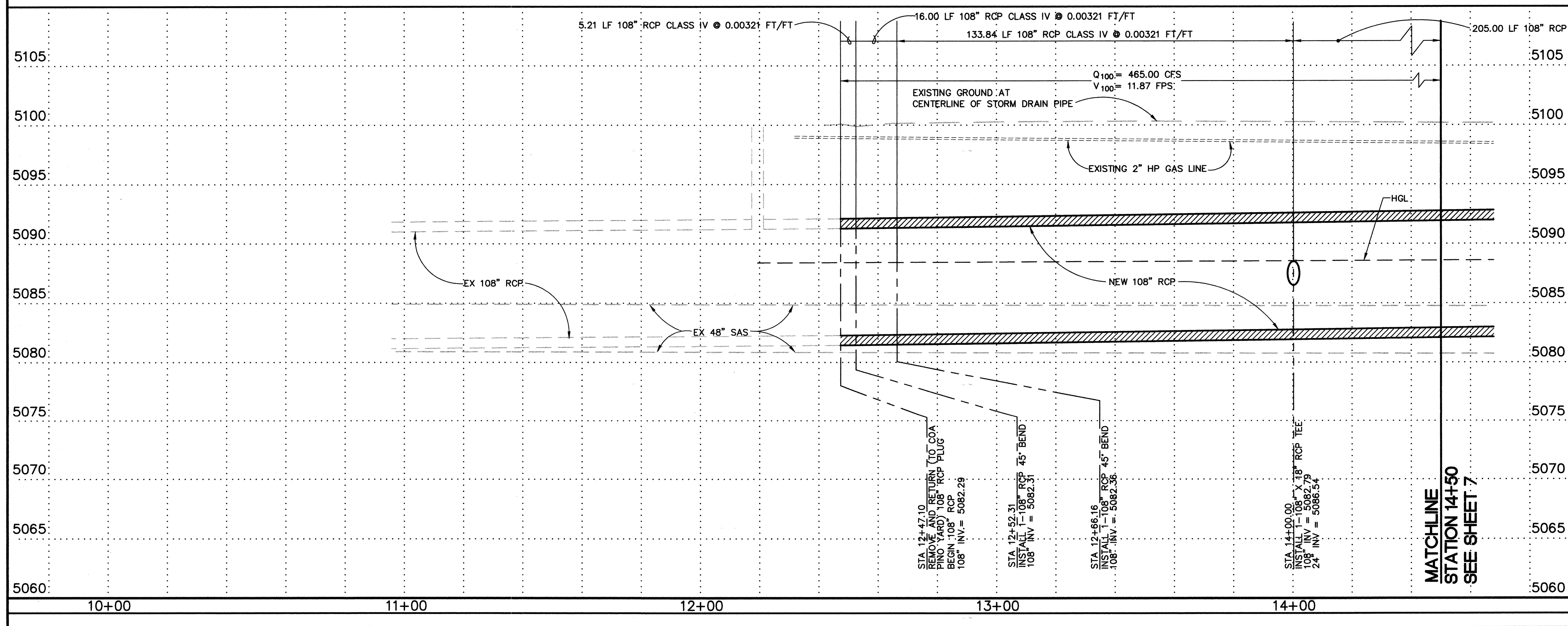
KEYED NOTES:

- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH PNM-ELECTRIC (WILLIE TORRES 241-3318) FOR TEMPORARY RELOCATION OF EXISTING OVERHEAD ELECTRICAL LINES AND POLES. **NOTE PNM-ELECTRIC REQUIRES 4 WEEKS TO SCHEDULE CREWS TO PERFORM THE RELOCATION WORK.** RELOCATED TO FENCE LINE AT EAST EDGE OF ROW
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH PNM-GAS (ALBERTO LANDAYAZO 241-7778) FOR TEMPORARY RELOCATION OF EXISTING UNDERGROUND GAS LINES. **NOTE PNM-GAS REQUIRES 4 WEEKS TO SCHEDULE CREWS TO PERFORM THE RELOCATION WORK.** RELOCATED TO LOCATION SHOWN ON DRAWINGS (± 4' FROM FENCE)

INSTALL 26.00 LF OF 18" RCP CLASS IV @ 0.2292 FT/FT.

GENERAL NOTES

- ALL CONSTRUCTION MUST TAKE PLACE WITHIN CITY OF ALBUQUERQUE RIGHT OF WAY. THE CONTRACTOR SHALL USE SHORING, TRENCH BOXES, ETC. DURING THE TRENCHING AND BACKFILLING PROCESS SO AS NOT TO DAMAGE ANY FACILITIES, UTILITIES, FENCES, WALLS, PAVEMENT, ETC. THAT EXIST ON PRIVATE PROPERTY. ANY DAMAGE TO ITEMS LOCATED ON PRIVATE PROPERTY WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE AT NO ADDITIONAL COST TO THE OWNER.
- GRADING FOR AREAS AROUND SPECIAL DROP INLETS IS TO BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: WEST MESA DIVERSION PROJECT PHASE 2A STORM DRAIN P & P: 64TH STREET: STA 12+47.10 TO 14+50	
Design Review Committee APPROVED AUG 10 2000	City Engineer Approval APPROVED AUG 10 2000 CITY ENGINEER
City Project No. 6410.91	Zone Map No. J-10
Sheet 6	of 26

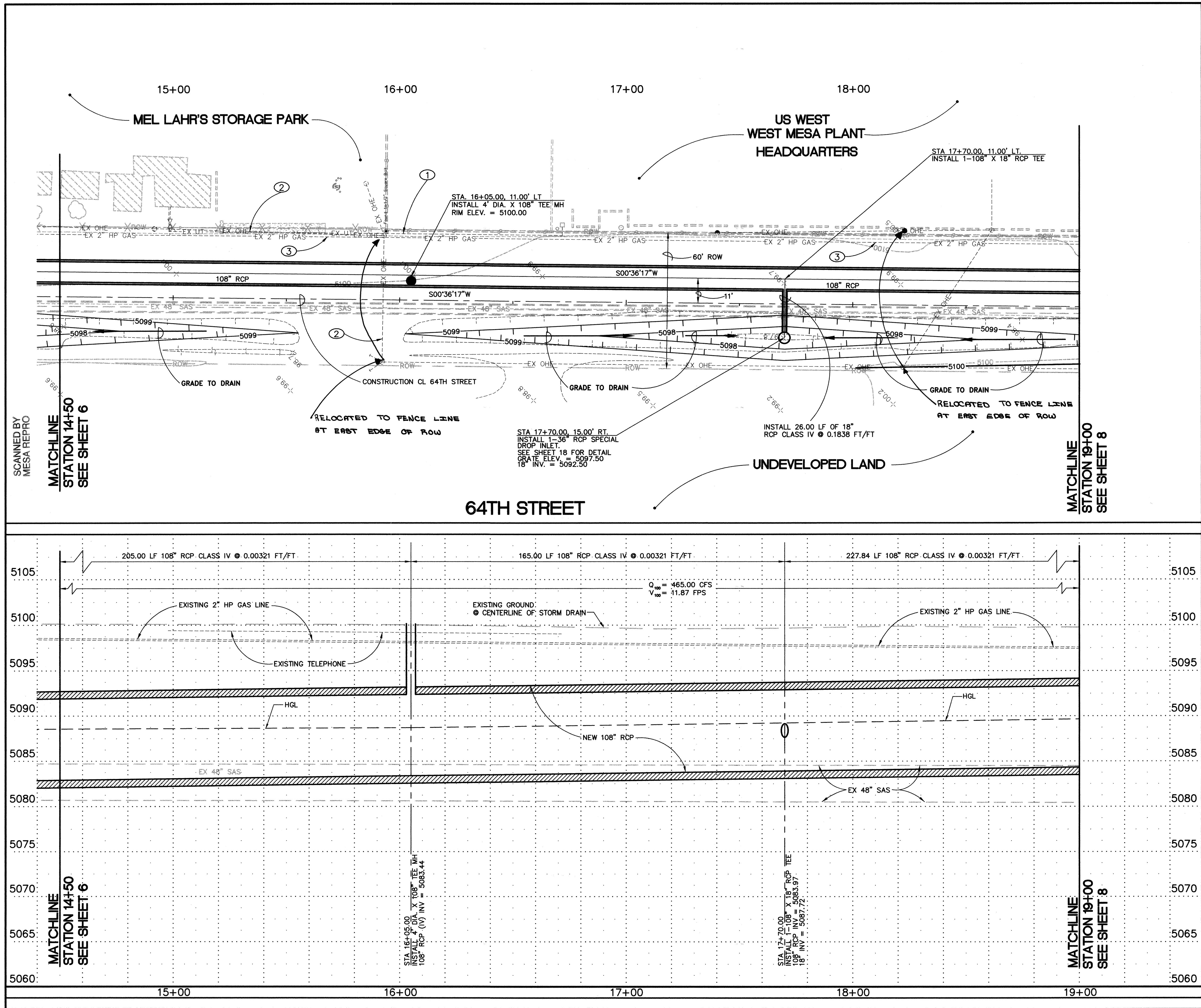
AS-BUILT INFORMATION			
CONTRACTOR	ROCK INC.	DATE	4-01
INSPECTOR	ALBUQUERQUE	DATE	4-01
FIELD VERIFICATION	STATION MARK IS A	DATE	4-01
CORRECTION	STANDARD NMHC BRASS TABLET, STAMPED	DATE	4-01
RECORDED BY	NO.	DATE	4-01
MICRO-FILM INFORMATION			
RECORDED BY	NO.	DATE	4-01

BENCH MARKS			
1-40-18	NMHC/ACS	ELEV. 5103.98 FEET (SLD 1929)	
STATION IS LOCATED 3.5 MILES NW OF DOWNTOWN ALBUQUERQUE, AT THE HIGHWAY I-40 AND STATE ROAD 448 (COORS RD., NW) INTERCHANGE. STATION MARK IS A STANDARD NMHC BRASS TABLET, STAMPED "STA 1-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494859.08, E 364150.93)			

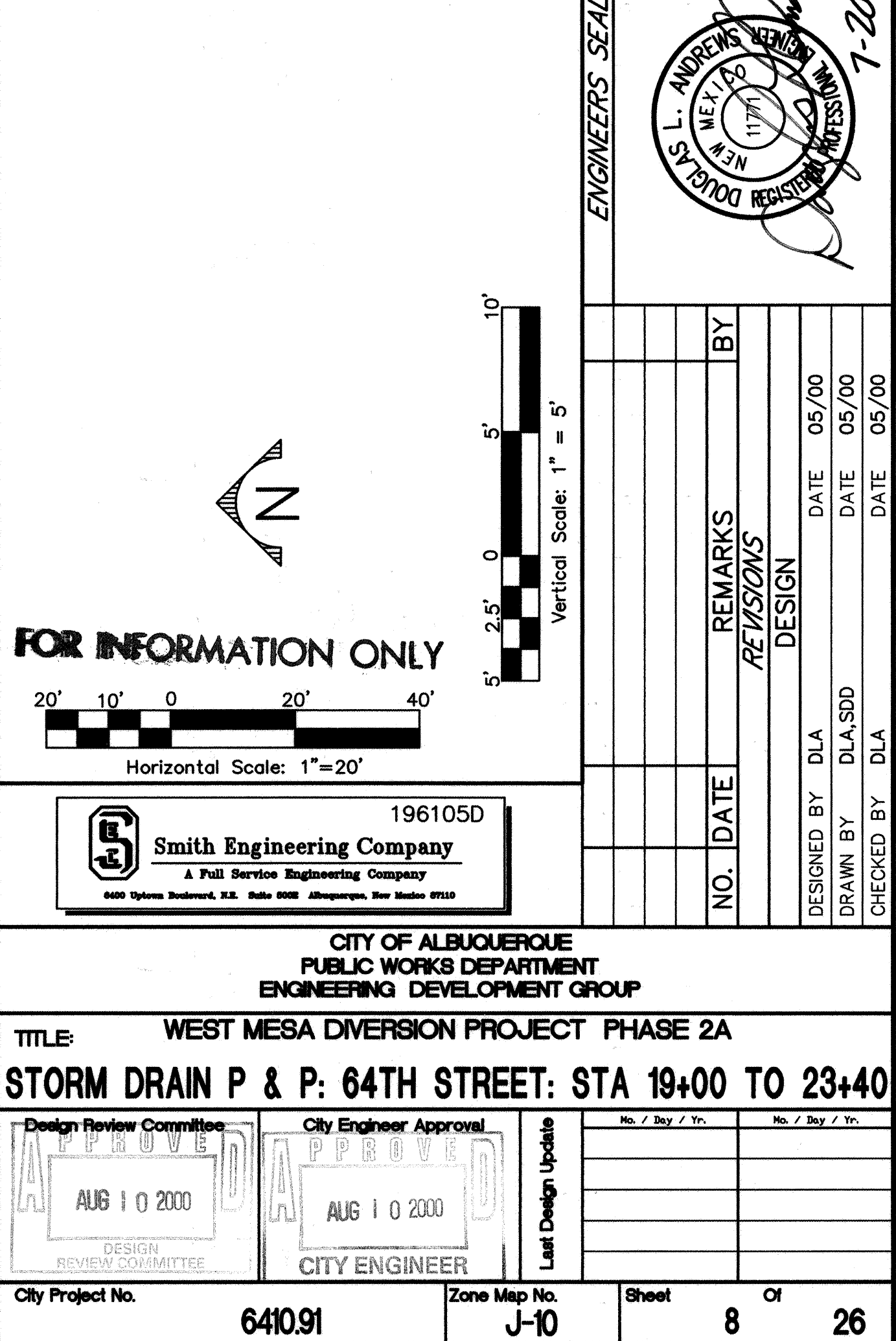
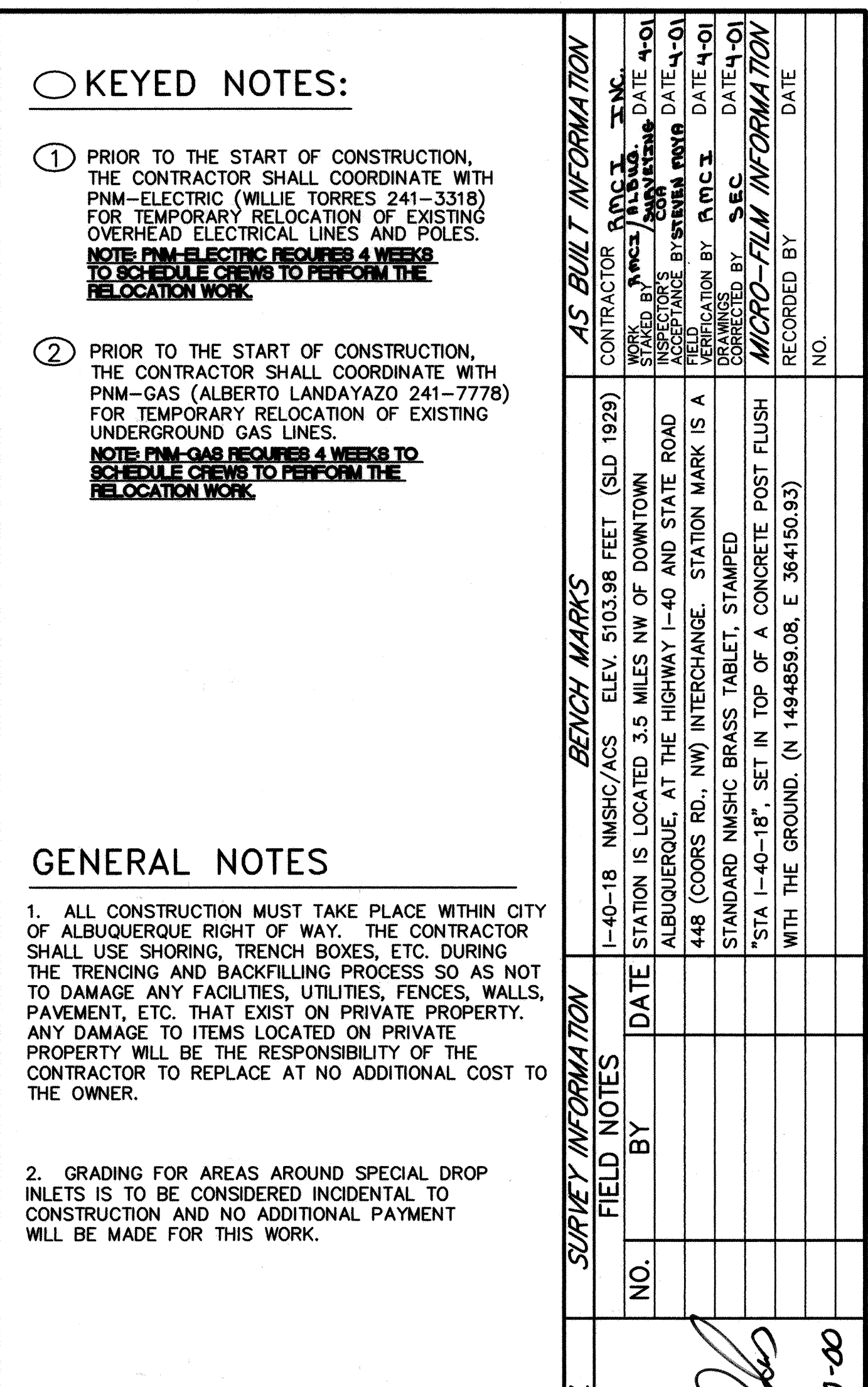
SURVEY INFORMATION			
FIELD NOTES	DATE	BY	NO.

ENGINEERS SEAL			
REMARKS	BY	DATE	DESIGNED BY
REVISIONS			DRAWN BY
DESIGN			CHECKED BY





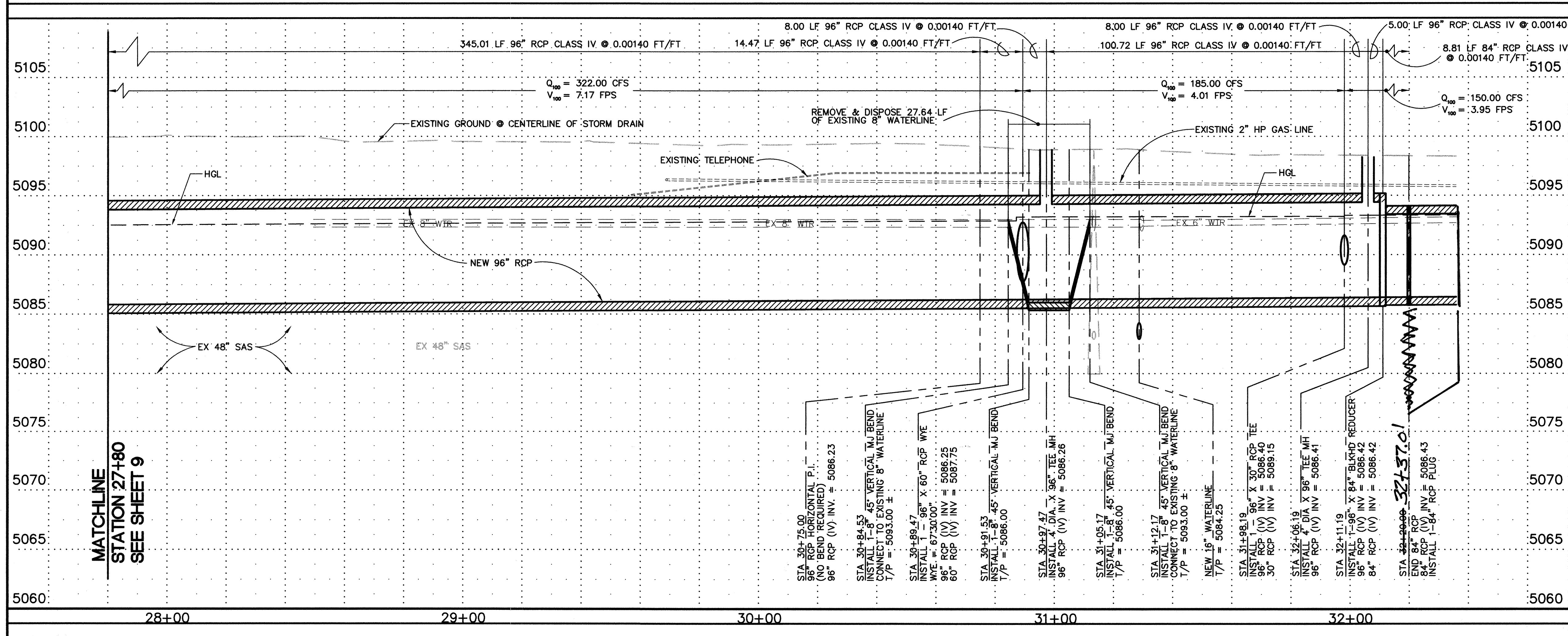
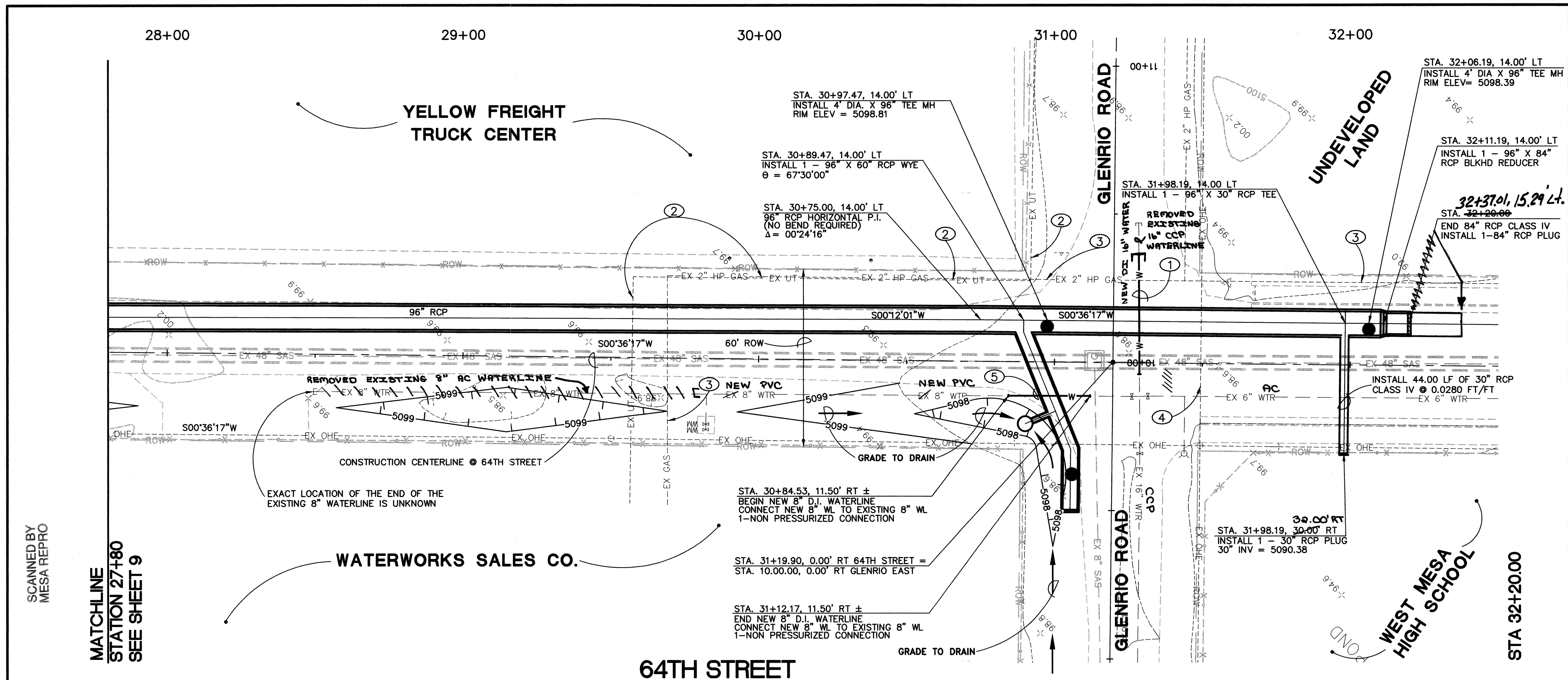












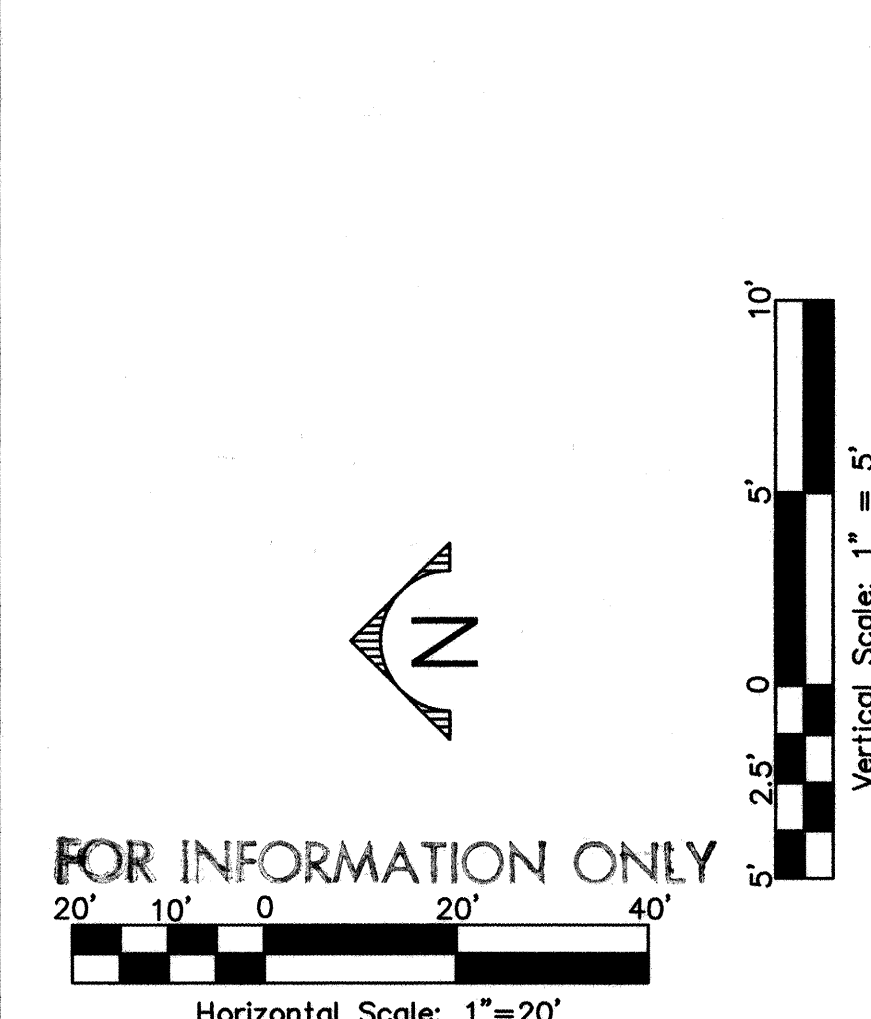
# KEYED NOTES:

- SEE GLENRIO ROAD STORM DRAIN PLAN AND PROFILE SHEET 13 FOR INSTALLATION OF NEW 16" WATERLINE
- CONTRACTOR SHALL COORDINATE WITH US WEST (JOSEPH MARTINEZ 245-6984) FOR SUPPORT OF EXISTING TELEPHONE LINE.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH PNM-GAS (ALBERTO LANDAYAZO 241-7778) FOR TEMPORARY RELOCATION OF EXISTING UNDERGROUND GAS LINES.  
**NOTE PNM-GAS REQUIRES 4 WEEKS TO SCHEDULE CREWS TO PERFORM THE RELOCATION WORK.**
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH PNM-ELECTRIC (WILLIE TORRES 241-3318) FOR TEMPORARY RELOCATION OF EXISTING OVERHEAD ELECTRICAL LINES AND POLES.  
**NOTE PNM-ELECTRIC REQUIRES 4 WEEKS TO SCHEDULE CREWS TO PERFORM THE RELOCATION WORK.**
- INSTALL 33.50 LF OF 8" D.I. WATERLINE PIPE TO LIMITS SHOWN.

## GENERAL NOTES

- ALL CONSTRUCTION MUST TAKE PLACE WITHIN CITY OF ALBUQUERQUE RIGHT OF WAY. THE CONTRACTOR SHALL USE SHORING, TRENCH BOXES, ETC. DURING THE TRENCHING AND BACKFILLING PROCESS SO AS NOT TO DAMAGE ANY FACILITIES, UTILITIES, FENCES, WALLS, PAVEMENT, ETC. THAT EXIST ON PRIVATE PROPERTY. ANY DAMAGE TO ITEMS LOCATED ON PRIVATE PROPERTY WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE AT NO ADDITIONAL COST TO THE OWNER.
- GRADING FOR AREAS AROUND SPECIAL DROP INLETS IS TO BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.

FOR INFORMATION ONLY



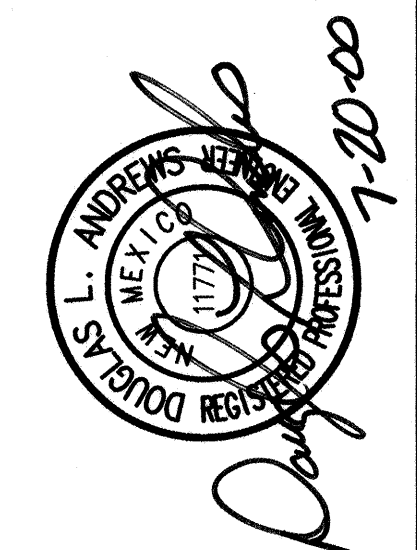
1961050  
Smith Engineering Company  
A Full Service Engineering Company  
6000 Optima Boulevard, N.E. Suite 2000 Albuquerque, New Mexico 87113

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

TITLE: WEST MESA DIVERSION PROJECT PHASE 2A  
STORM DRAIN P & P: 64TH STREET: STA 27+80 TO 32+20

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	NO.	DATE	REVISIONS	DESIGNED BY	DRAWN BY	CHECKED BY
APPROVED AUG 10 2000	APPROVED AUG 10 2000				DLA	DLA	DLA
DESIGN REVIEW COMMITTEE	CITY ENGINEER						
City Project No.	Zone Map No.	Sheet	Of				
641091	J-10	10	26				

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL	
CONTRACTOR PROJECT NO.	DATE	CONTRACTOR PROJECT NO.	DATE	NO.	DATE	NO.	DATE
1-40-18	MSHC/ACS	ELEV. 5103.98 FEET (SLD 1929)					
STATION IS LOCATED 3.5 MILES NW OF DOWNTOWN							
ALBUQUERQUE, AT THE HIGHWAY I-40 AND STATE ROAD							
448 (COORS RD., NW) INTERCHANGE. STATION MARK IS A							
STANDARD NMHC BRASS TABLET, STAMPED							
"STA 1-40-18" SET IN TOP OF A CONCRETE POST FLUSH							
WITH THE GROUND. (N 1494859.08, E 364150.03)							



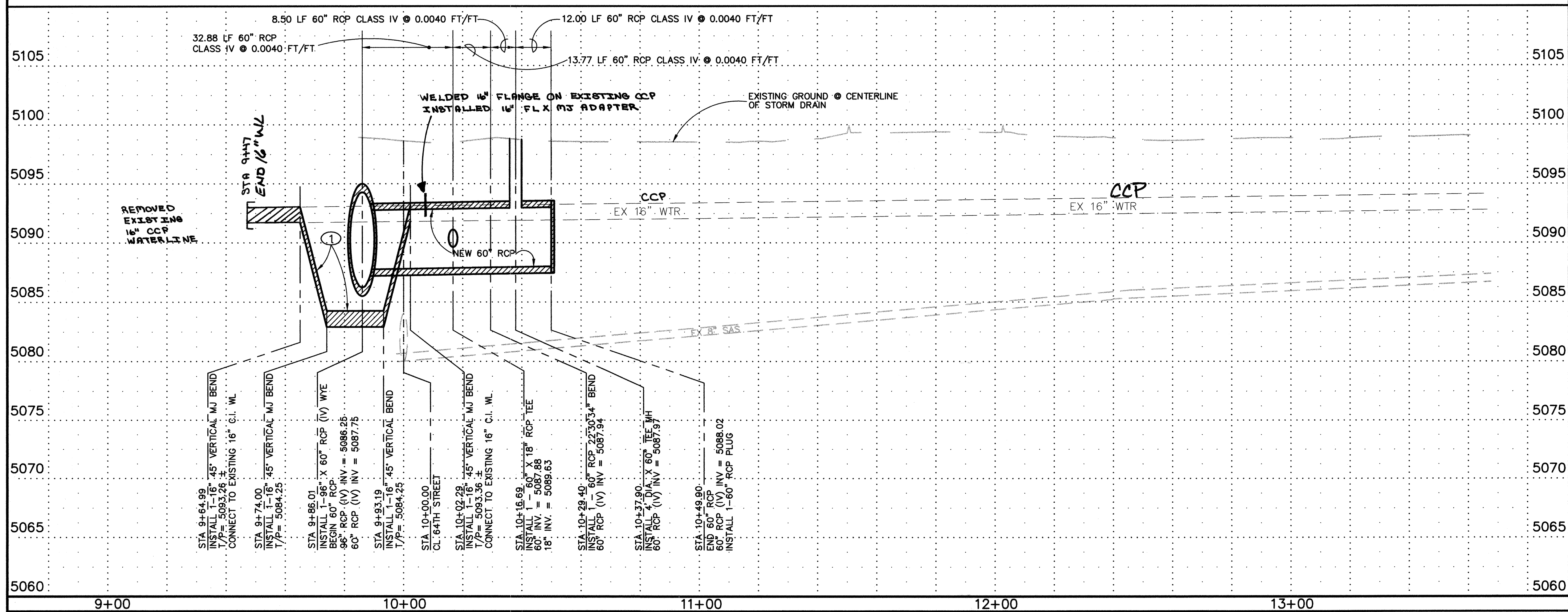
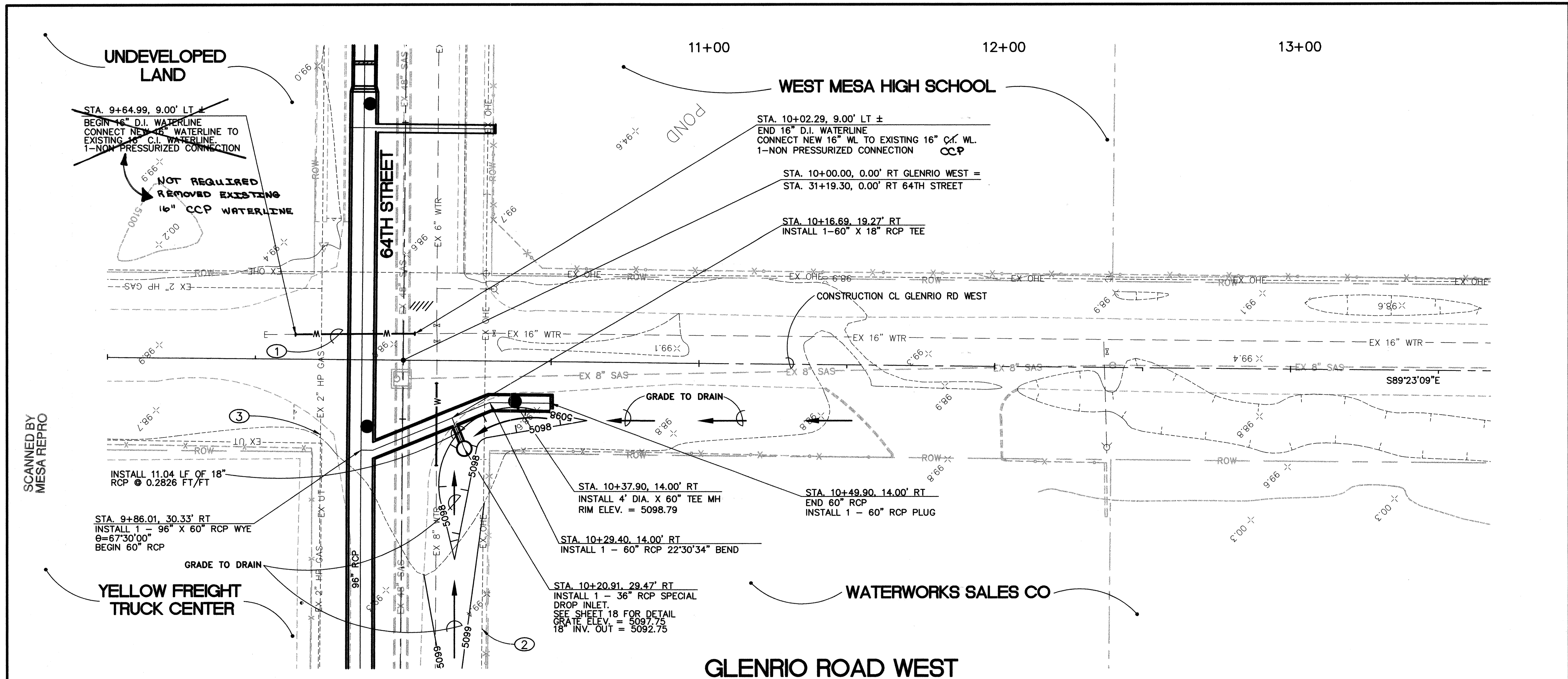












KEYED NOTES:

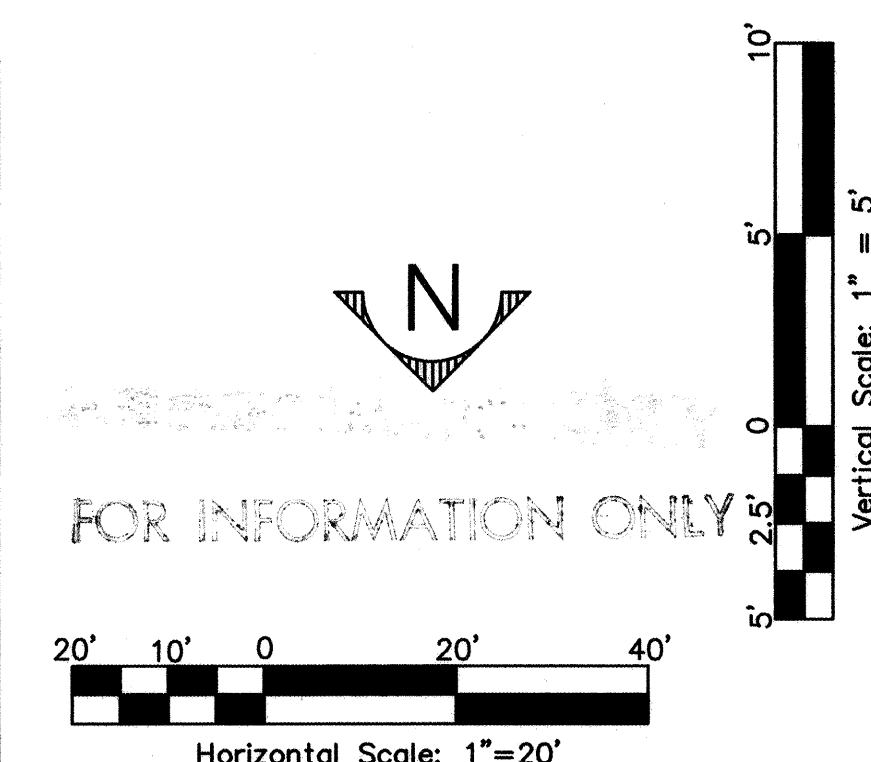
1. INSTALL 48 LF ± OF 16" D.I. WATERLINE TO THE LIMITS SHOWN.
2. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH PNM-ELECTRIC (WILLIE TORRES 241-3318) FOR TEMPORARY RELOCATION OF EXISTING OVERHEAD ELECTRICAL LINES AND POLES. **NOTE PNM-ELECTRIC REQUIRES 4 WEEKS TO SCHEDULE CREWS TO PERFORM THE RELOCATION WORK.**
3. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH PNM-GAS (ALBERTO LANDAYAZO 241-7778) FOR TEMPORARY RELOCATION OF EXISTING UNDERGROUND GAS LINES. **NOTE PNM-GAS REQUIRES 4 WEEKS TO SCHEDULE CREWS TO PERFORM THE RELOCATION WORK.**

GENERAL NOTES

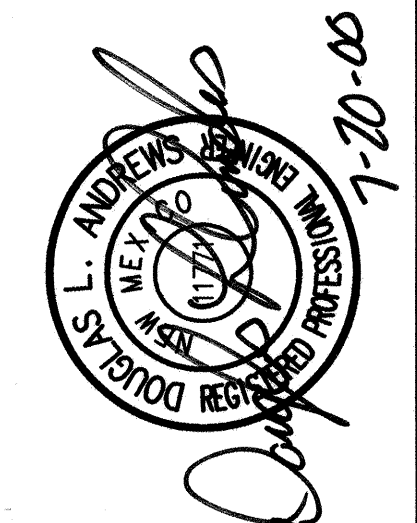
1. ALL CONSTRUCTION MUST TAKE PLACE WITHIN CITY OF ALBUQUERQUE RIGHT OF WAY. THE CONTRACTOR SHALL USE SHORING, TRENCH BOXES, ETC. DURING THE TRENCHING AND BACKFILLING PROCESS SO AS NOT TO DAMAGE ANY FACILITIES, UTILITIES, FENCES, WALLS, PAVEMENT, ETC. THAT EXIST ON PRIVATE PROPERTY. ANY DAMAGE TO ITEMS LOCATED ON PRIVATE PROPERTY WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE AT NO ADDITIONAL COST TO THE OWNER.
2. GRADING FOR AREAS AROUND SPECIAL DROP INLETS IS TO BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.

WATER LINE RESTRAINT LENGTHS

LENGTH OF RESTRAINED PIPE (FEET) FOR VERTICAL BENDS					
PIPE SIZE	90°	45°	22-1/2°	11-1/4°	VALVE
16"	N/A	40'	N/A	N/A	N/A



AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL	
CONTRACTOR	DATE	STATION	ELEV.	NO.	DATE	NO.	DATE
INSPECTOR	DATE	STATION	ELEV.	NO.	DATE	NO.	DATE
VERIFICATION BY	DATE	STATION	ELEV.	NO.	DATE	NO.	DATE
CORRECTED BY	DATE	STATION	ELEV.	NO.	DATE	NO.	DATE
RECORDED BY	DATE	STATION	ELEV.	NO.	DATE	NO.	DATE

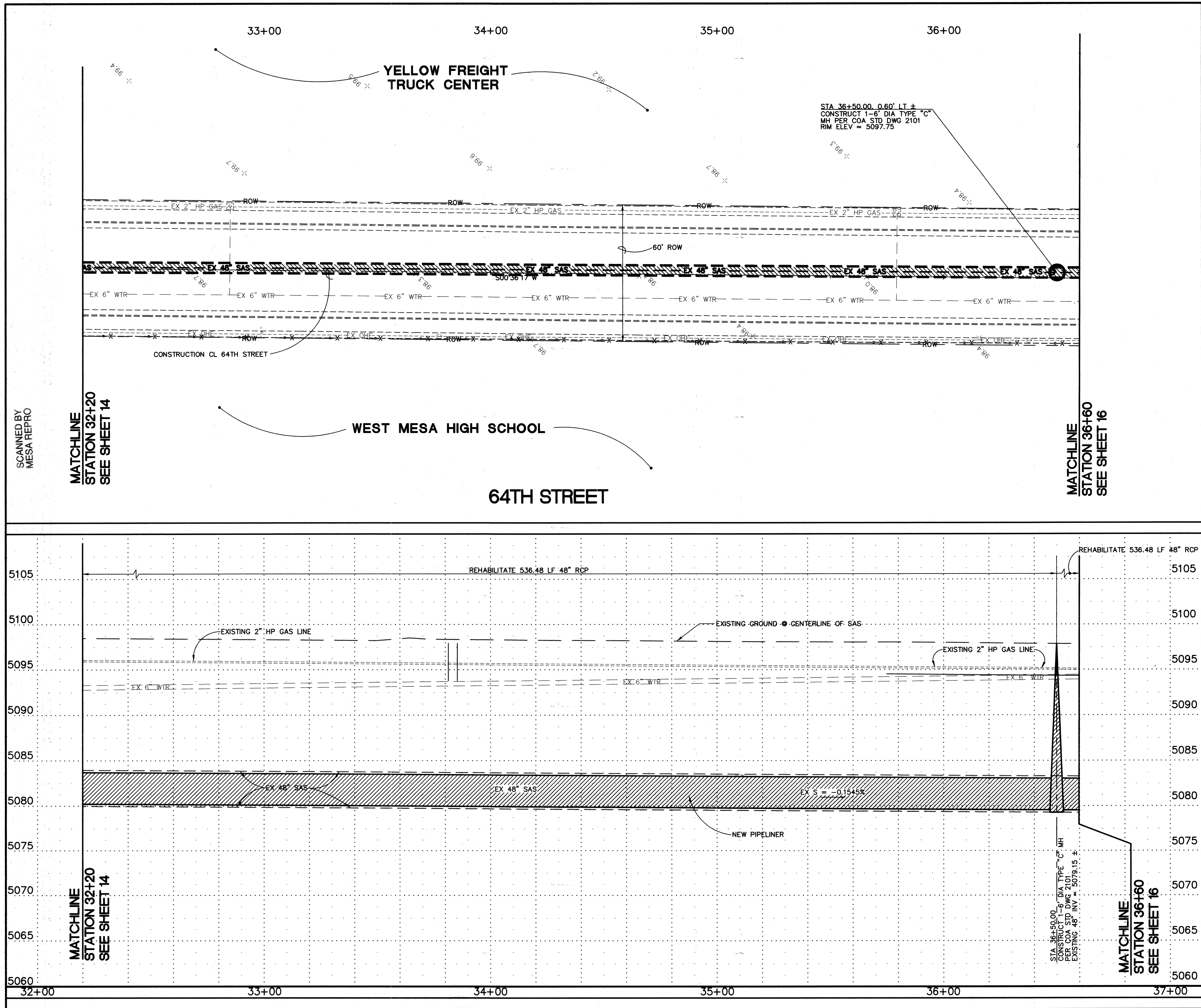


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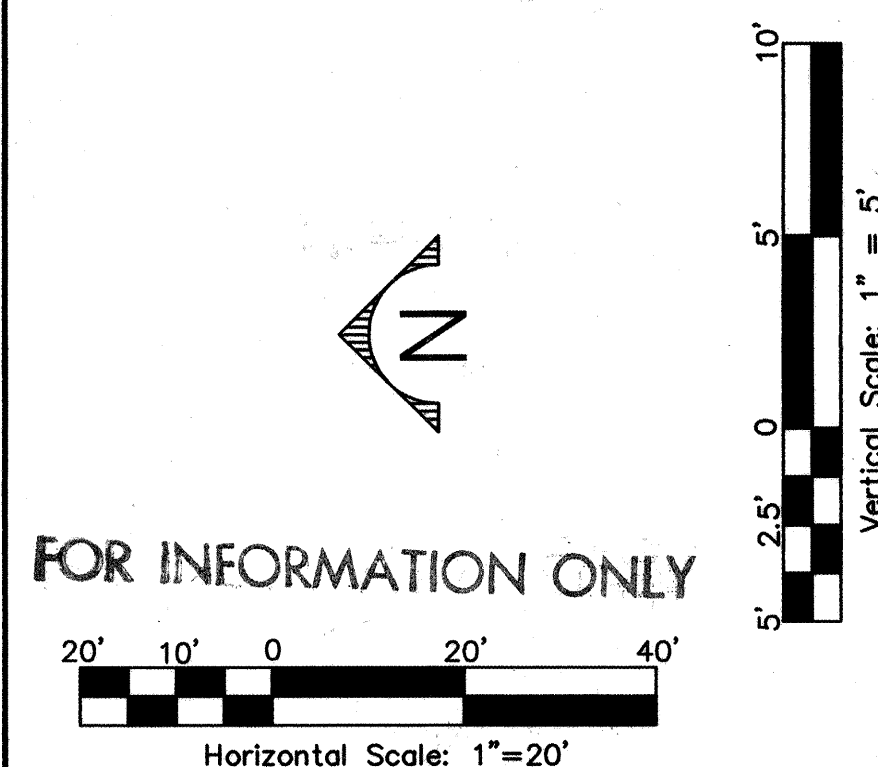






# NOTES:

- THE CONTRACTOR SHALL SUPPORT AND MAINTAIN ALL OPERATIONAL EXISTING UTILITIES AS REQUIRED. ALL COSTS ASSOCIATED WITH THE SHORING, BRACING AND/OR SUPPORT OF EXISTING UTILITIES FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT PRICE.
- PAVEMENT REMOVAL AND REPLACEMENT AS REQUIRED FOR INSERTION PIT EXCAVATIONS, GROUTING OPERATIONS, OR OTHER REPAIRS SHALL BE IN ACCORDANCE WITH THE CITY STANDARDS DRAWING 2465. ALL PAVEMENT CUT EDGES SHALL BE SAWCUT TO PRESENT AN EVEN LINE PRIOR TO REPLACEMENT OF PAVING MATERIALS.
- TRENCH CUT WIDTHS FOR INSERTION PITS, GROUTING OPERATIONS OR OTHER REPAIRS SHALL BE THE MINIMUM WIDTHS REQUIRED FOR UTILITY INSTALLATION, BACKFILL AND COMPACTION, AND COMPLIANCE WITH CURRENT AND APPLICABLE OSHA SAFETY REGULATIONS. ALL COSTS ASSOCIATED WITH INSERTION PIT EXCAVATIONS, BACKFILL, & COMPACTION GROUTING OPERATIONS OR OTHER REPAIRS INCLUDING PAVEMENT REMOVAL AND REPLACEMENT AS REQUIRED FOR THE 48" SEWER REHAB OF THIS PROJECT SHALL BE INCIDENTAL TO THE CONTRACT PRICE.
- ALL TRENCH BACKFILL SHALL BE COMPACTED TO 90% MINIMUM COMPACTION AT OPTIMUM MOISTURE CONTENT  $\pm 2\%$  PER ASTM D-1557.
- A CCTV INSPECTION WAS PERFORMED IN 1996 FOR THE 48" INTERCEPTOR IN 64TH STREET WITHIN THE SEGMENT SCHEDULED FOR REHABILITATION. THE CCTV INSPECTIONS ARE AVAILABLE. TO REVIEW A COPY OF THE TAPE PRIOR TO BIDDING, REFER TO SECTION 10, SPECIAL PROVISIONS OF THE SPECIFICATIONS.
- CONTRACTOR SHALL TERMINATE LINER PIPE AT MANHOLE INSIDE FACE AND INSTALL A BULKHEAD IN ASSOCIATION WITH ANNULAR SPACE GROUTING. SEE SUPPLEMENTAL TECHNICAL SPECIFICATION SECTION 930.14 FOR MANHOLE REHABILITATION.
- PAVEMENT REMOVAL AND REPLACEMENT SHALL BE CONSIDERED INCIDENTAL TO 48" SEWER LINE REHABILITATION AS SUCH NO SEPARATE PAYMENT WILL BE MADE.
- THE CONTRACTOR IS CAUTIONED THAT THE INSIDE OF THE 48" RCP MAY BE UNSTABLE AND MAY COLLAPSE DURING CONSTRUCTION ACTIVITIES. ANY DAMAGE TO THE EXISTING RCP CAUSED BY THE INSTALLATION OF THE REHAB LINER THAT REQUIRES A POINT REPAIR IN ORDER TO COMPLETE THE WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE REHAB LINER IS REQUIRED TO WITHSTAND ALL VERTICAL AND LATERAL LOADS, INCLUDING BUT NOT LIMITED TO, ANY SOIL, LIVE AND HYDROSTATIC LOADS IN ACCORDANCE WITH SECTION 930 OF THE SUPPLEMENTAL TECHNICAL SPECIFICATIONS.
- DUE TO THE EXISTING CONDITION OF THE 48" RCP, THE CONTRACTOR IS REMINDED THAT SAFETY IS THE CONTRACTOR'S RESPONSIBILITY IN ACCORDANCE WITH SECTION 6.11 OF THE GENERAL CONDITIONS.



**FOR INFORMATION ONLY**

196105D  
Smith Engineering Company  
A Full Service Engineering Company  
6000 Olympic Boulevard, S.E. Suite 1000 Albuquerque, New Mexico 87120

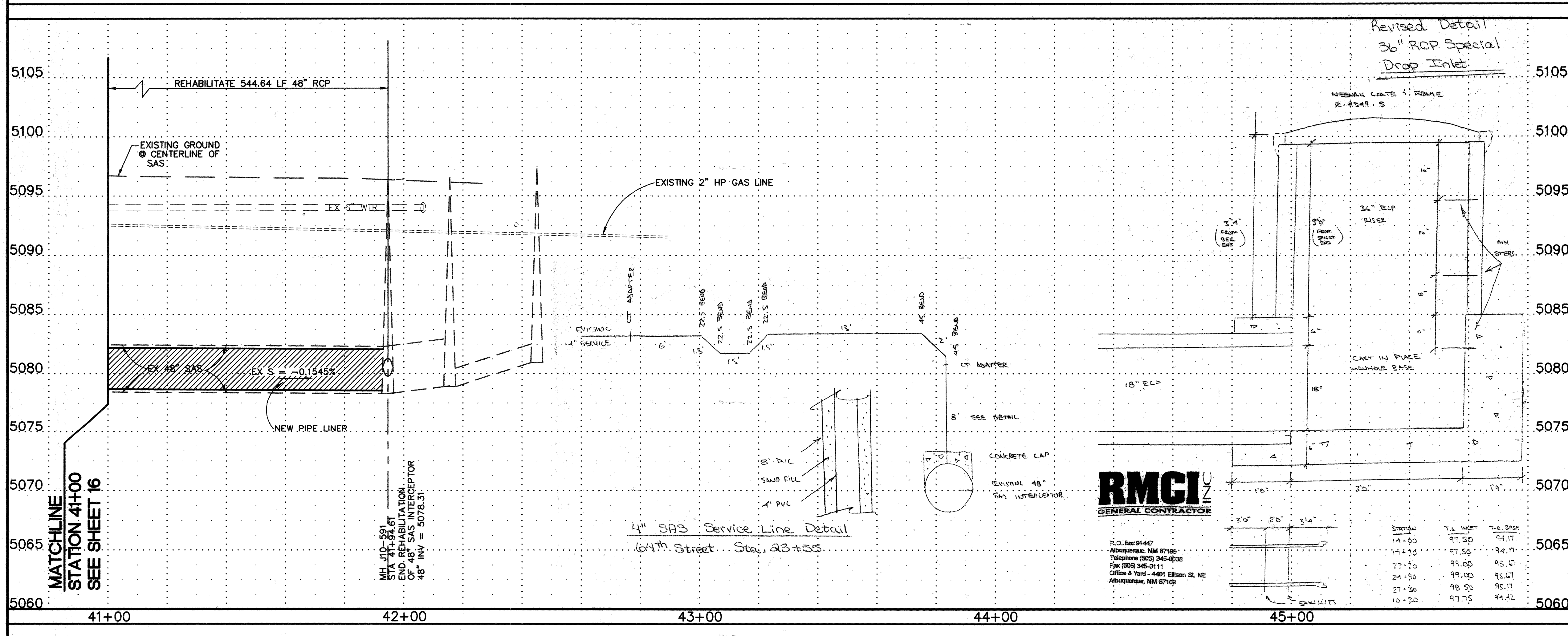
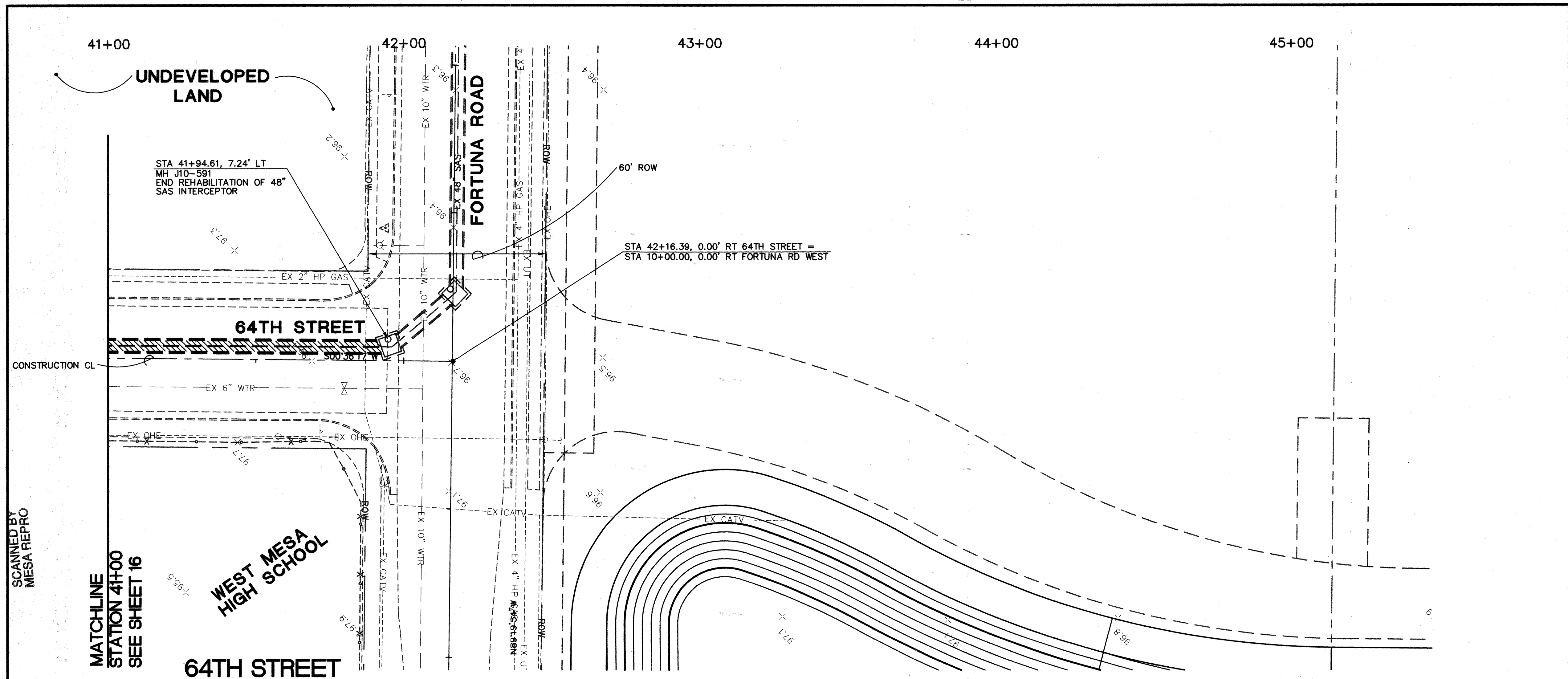
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: WEST MESA DIVERSION PROJECT PHASE 2A			
48" SAS INTERCEPTOR: STA 32+20 TO 36+60			
Design Review Committee	City Engineer Approval	Last Design Update	
APPROVED AUG 10 2000	APPROVED AUG 10 2000	CITY ENGINEER	
City Project No.	Zone Map No.	Sheet	Of
6410.91	J-10	15	26

AS-BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEERS SEAL			
CONTRACTOR	DATE	BY	NO.	CONTRACTOR	DATE	BY	NO.	CONTRACTOR	DATE	BY	NO.	CONTRACTOR	DATE	BY	NO.
1-40-18 NMHC/KCS	ELEV. 5103.98 FEET (SLD 1929)	STATION IS LOCATED 3.5 MILES NW OF DOWNTOWN ALBUQUERQUE, AT THE HIGHWAY I-40 AND STATE ROAD 148 (COORS RD., NW) INTERCHANGE. STATION MARK IS A STANDARD NMHC BRASS TABLET, STAMPED "STA 1-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494859.08, E 364150.93)		1-40-18 NMHC/KCS	ELEV. 5103.98 FEET (SLD 1929)	STATION IS LOCATED 3.5 MILES NW OF DOWNTOWN ALBUQUERQUE, AT THE HIGHWAY I-40 AND STATE ROAD 148 (COORS RD., NW) INTERCHANGE. STATION MARK IS A STANDARD NMHC BRASS TABLET, STAMPED "STA 1-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494859.08, E 364150.93)		1-40-18 NMHC/KCS	ELEV. 5103.98 FEET (SLD 1929)	STATION IS LOCATED 3.5 MILES NW OF DOWNTOWN ALBUQUERQUE, AT THE HIGHWAY I-40 AND STATE ROAD 148 (COORS RD., NW) INTERCHANGE. STATION MARK IS A STANDARD NMHC BRASS TABLET, STAMPED "STA 1-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494859.08, E 364150.93)		1-40-18 NMHC/KCS	ELEV. 5103.98 FEET (SLD 1929)	STATION IS LOCATED 3.5 MILES NW OF DOWNTOWN ALBUQUERQUE, AT THE HIGHWAY I-40 AND STATE ROAD 148 (COORS RD., NW) INTERCHANGE. STATION MARK IS A STANDARD NMHC BRASS TABLET, STAMPED "STA 1-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494859.08, E 364150.93)	



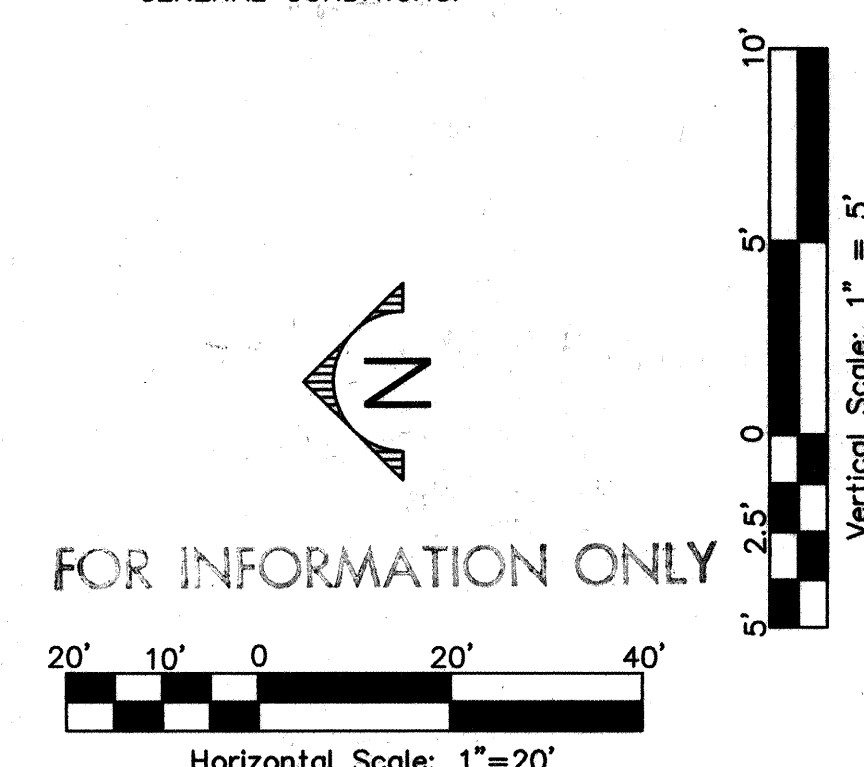






NOTES:

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10. DUE TO THE EXISTING CONDITION OF THE 48" RCP, THE CONTRACTOR IS REMINDED THAT SAFETY IS THE CONTRACTOR'S RESPONSIBILITY IN ACCORDANCE WITH SECTION 6.11 OF THE GENERAL CONDITIONS.

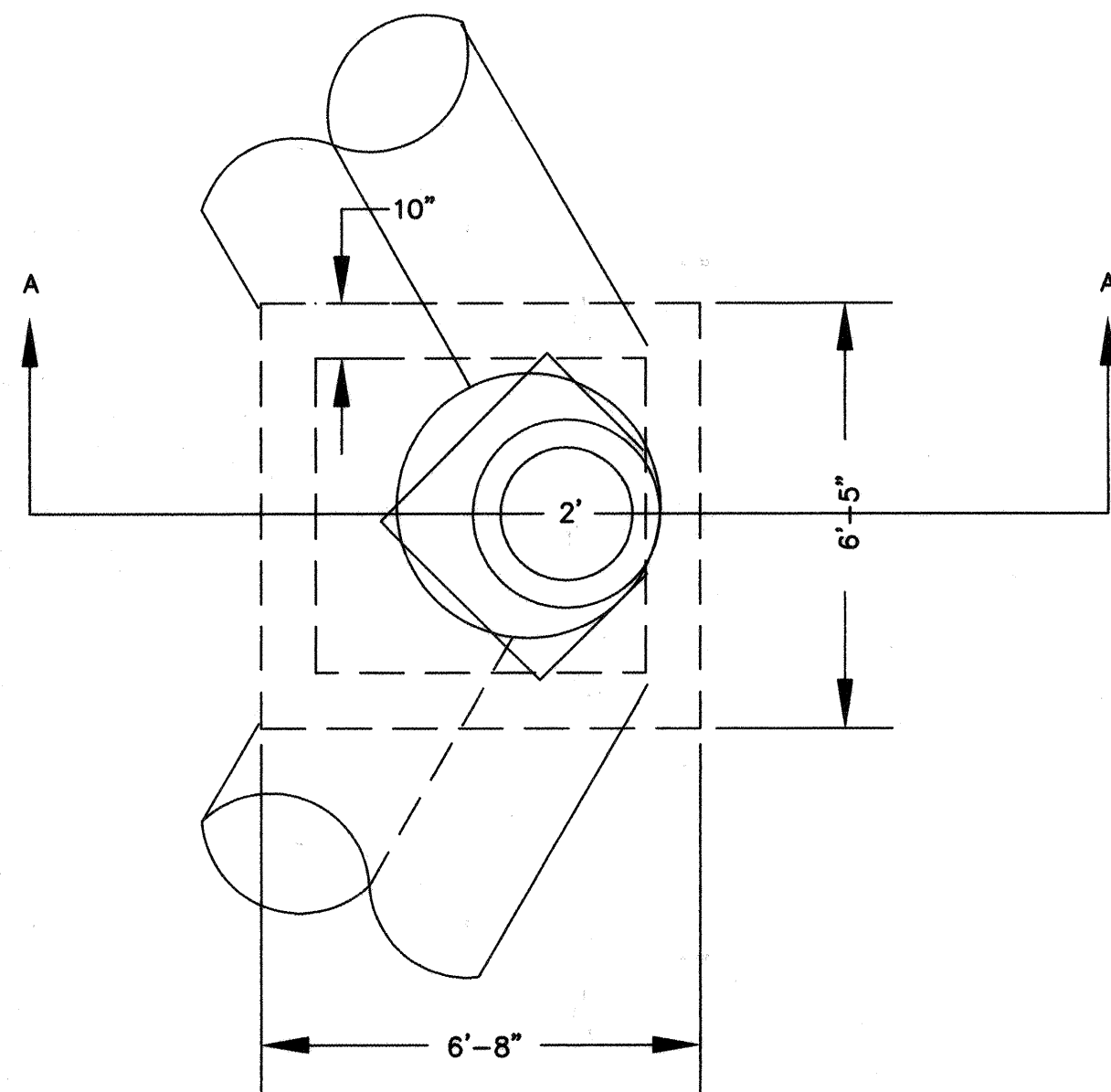


CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

TITLE: WEST MESA DIVERSION PROJECT PHASE 2A  
48" SAS INTERCEPTOR: STA 41+00 TO 42+00

Design Review Committee	City Engineer Approval	No. / Day / Yr.	No. / Day / Yr.
APPROVED AUG 10 2000	APPROVED AUG 10 2000		
City Project No.	Zone Map No.	Sheet	of
6410.91	J-10	17	26

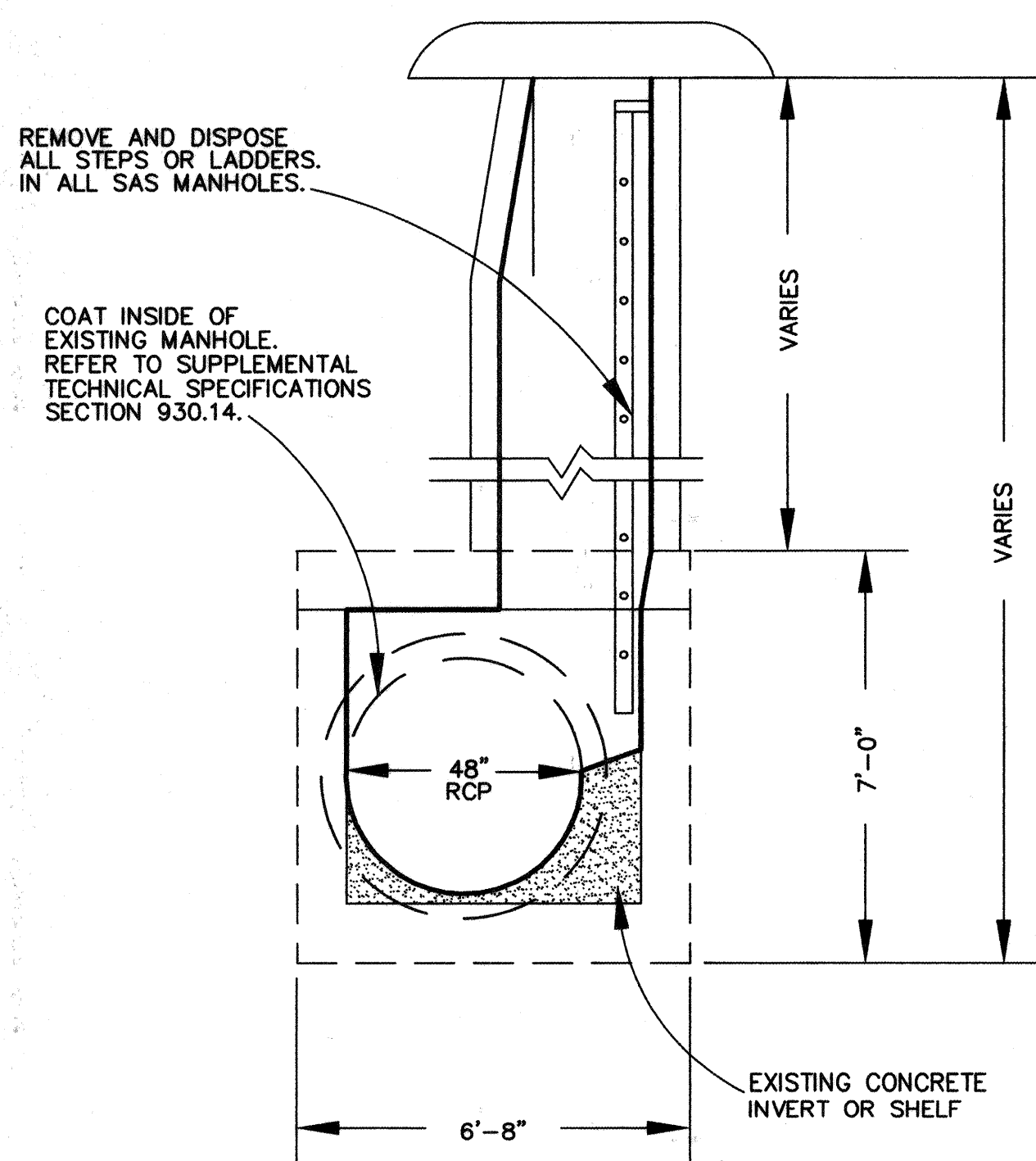




EXISTING 6'-5"X6'-8" SINGLE MH VAULT  
48" SAS INTERCEPTOR

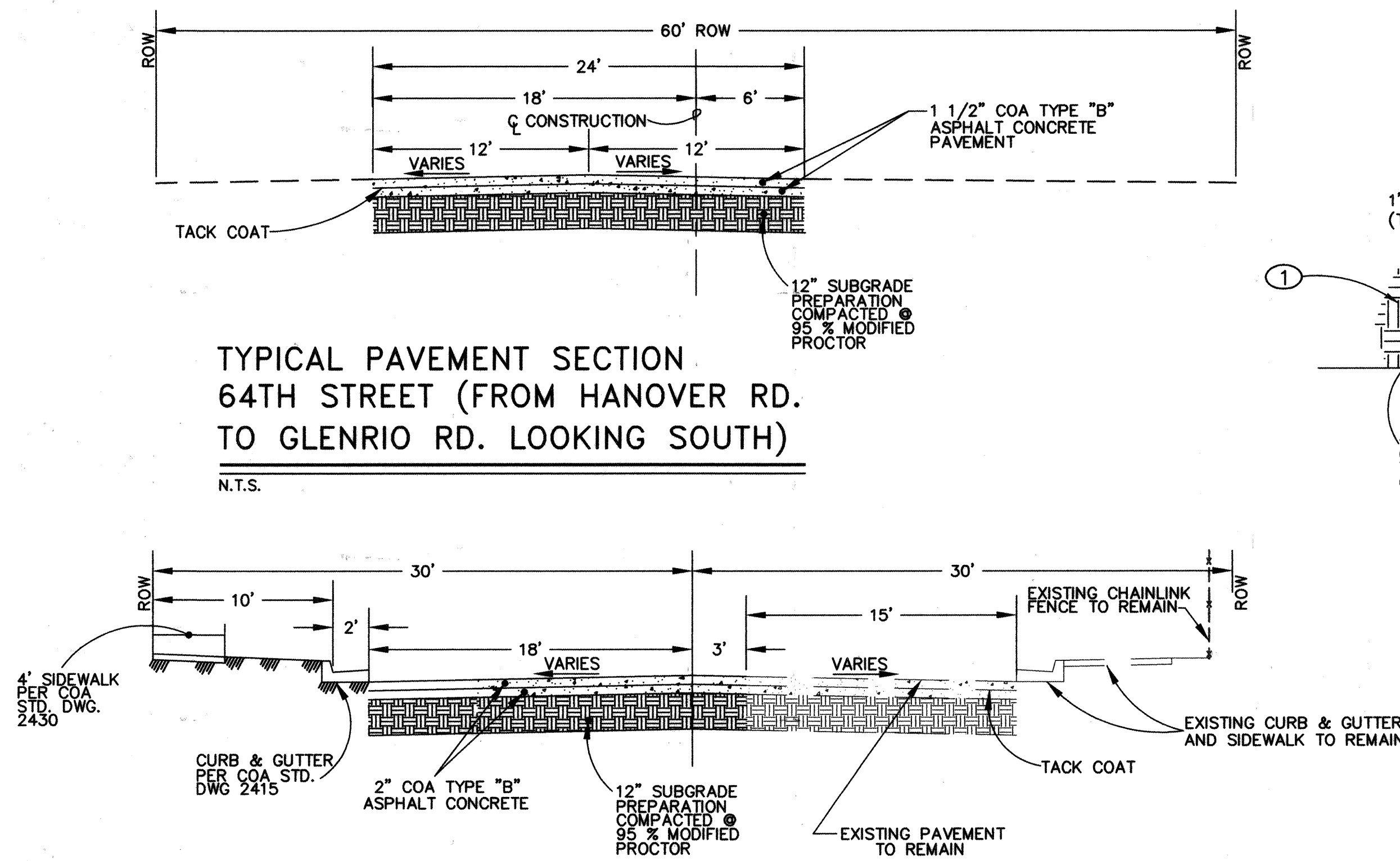
SCALE: 3/8"=1'-0"

SCANNED BY  
MESA REPRO



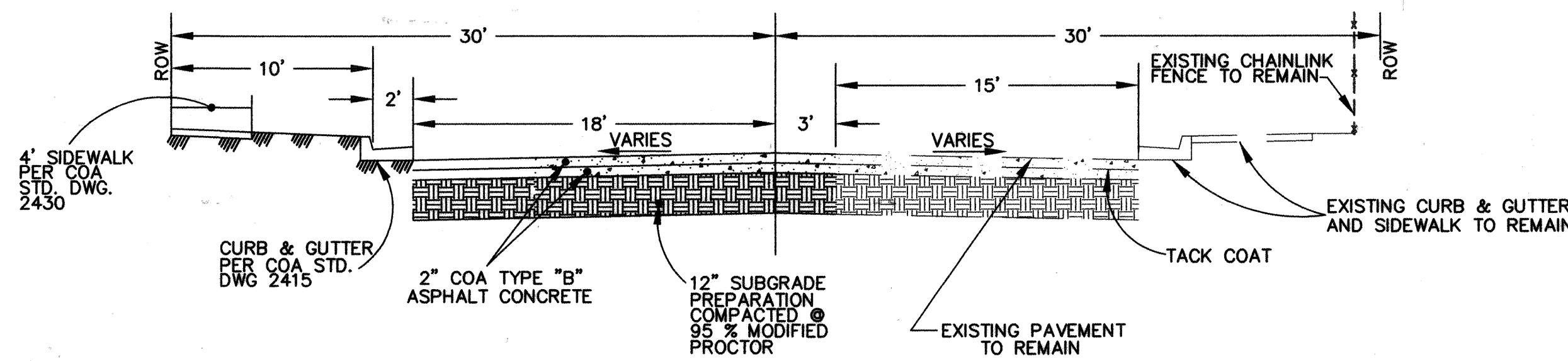
EXISTING 6'-5"X6'-8" SINGLE MH VAULT  
48" SAS INTERCEPTOR  
SECTION A-A

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



TYPICAL PAVEMENT SECTION  
64TH STREET (FROM HANOVER RD.  
TO GLENRIO RD. LOOKING SOUTH)

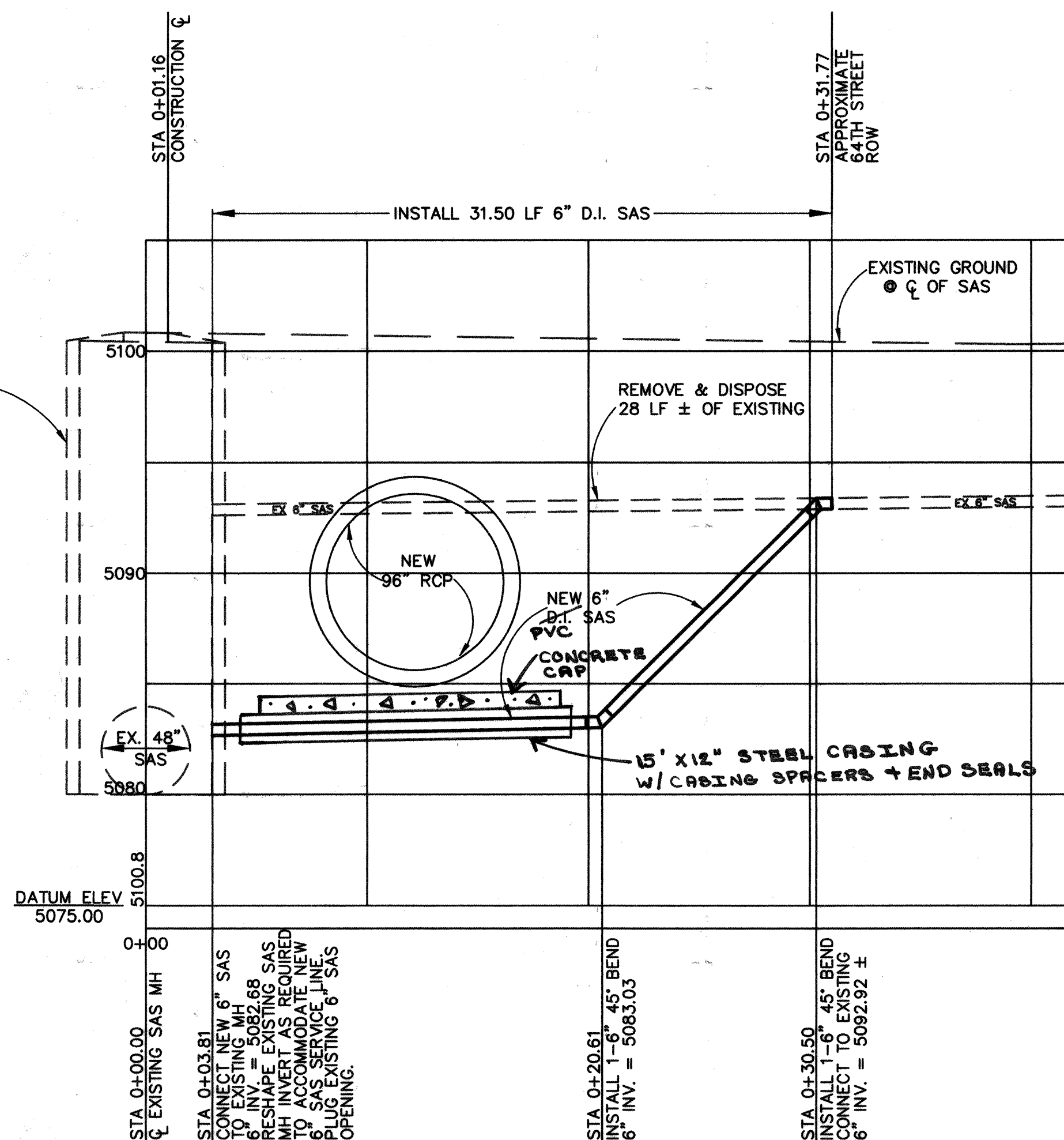
N.T.S.



TYPICAL PAVEMENT SECTION  
64TH STREET (31+66.40 TO 32+40.00)  
LOOKING SOUTH

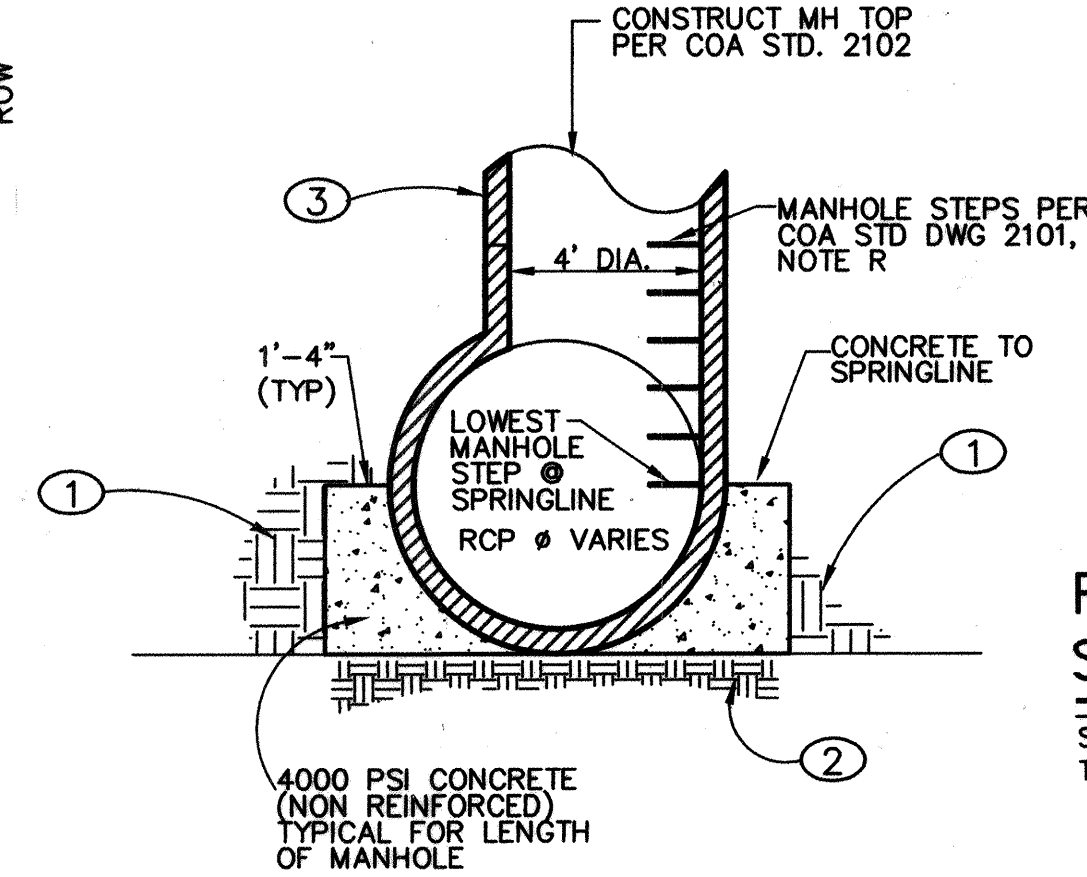
N.T.S.

PAVEMENT SECTION TAKEN  
FROM CITY OF ALBUQUERQUE  
PROJECT S.A.D. 188



6" SAS SERVICE RELOCATION  
STA 26+30.22 64TH STREET (LOOKING NORTH)

SCALE 1"=5'

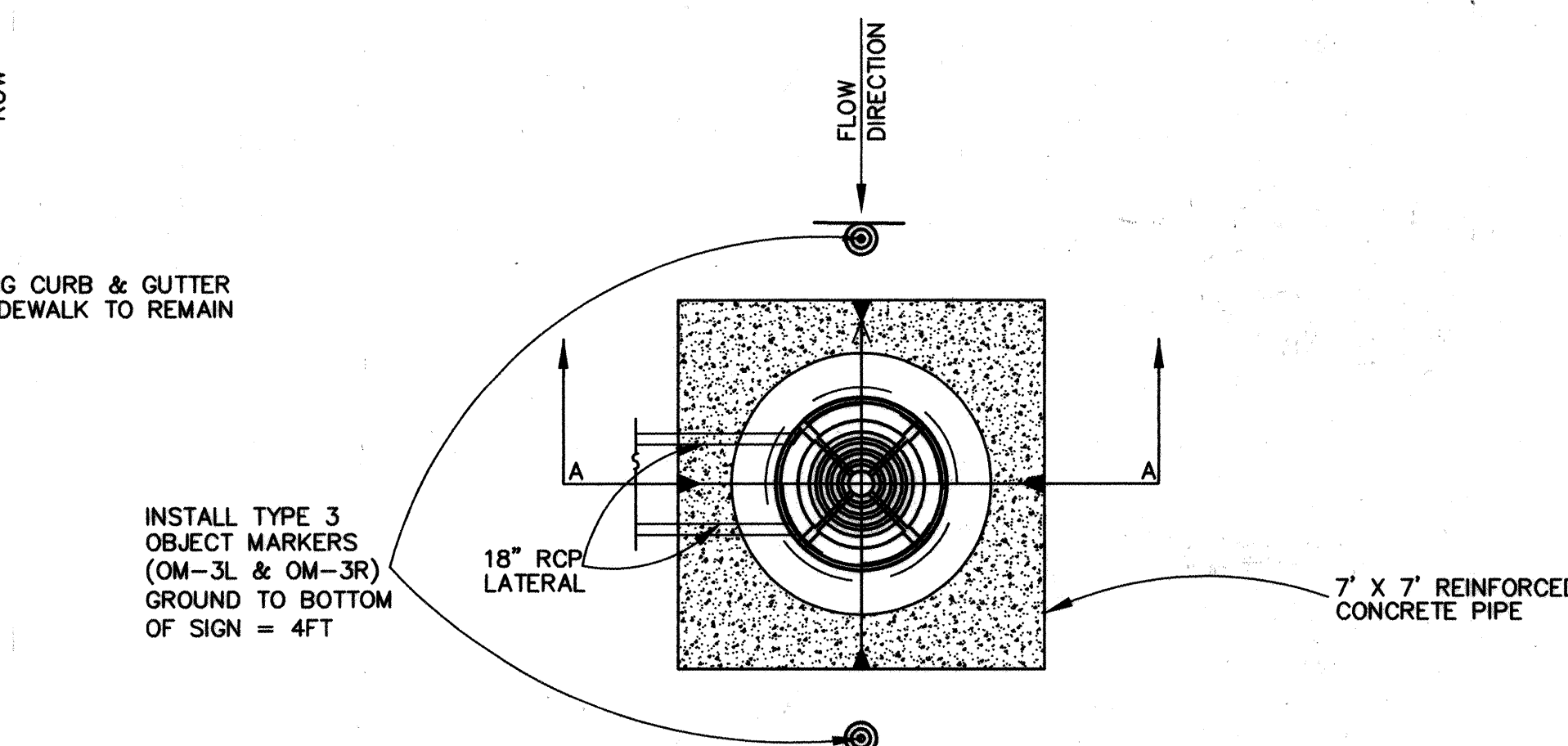


PRECAST MANHOLE  
SUPPORT SADDLE

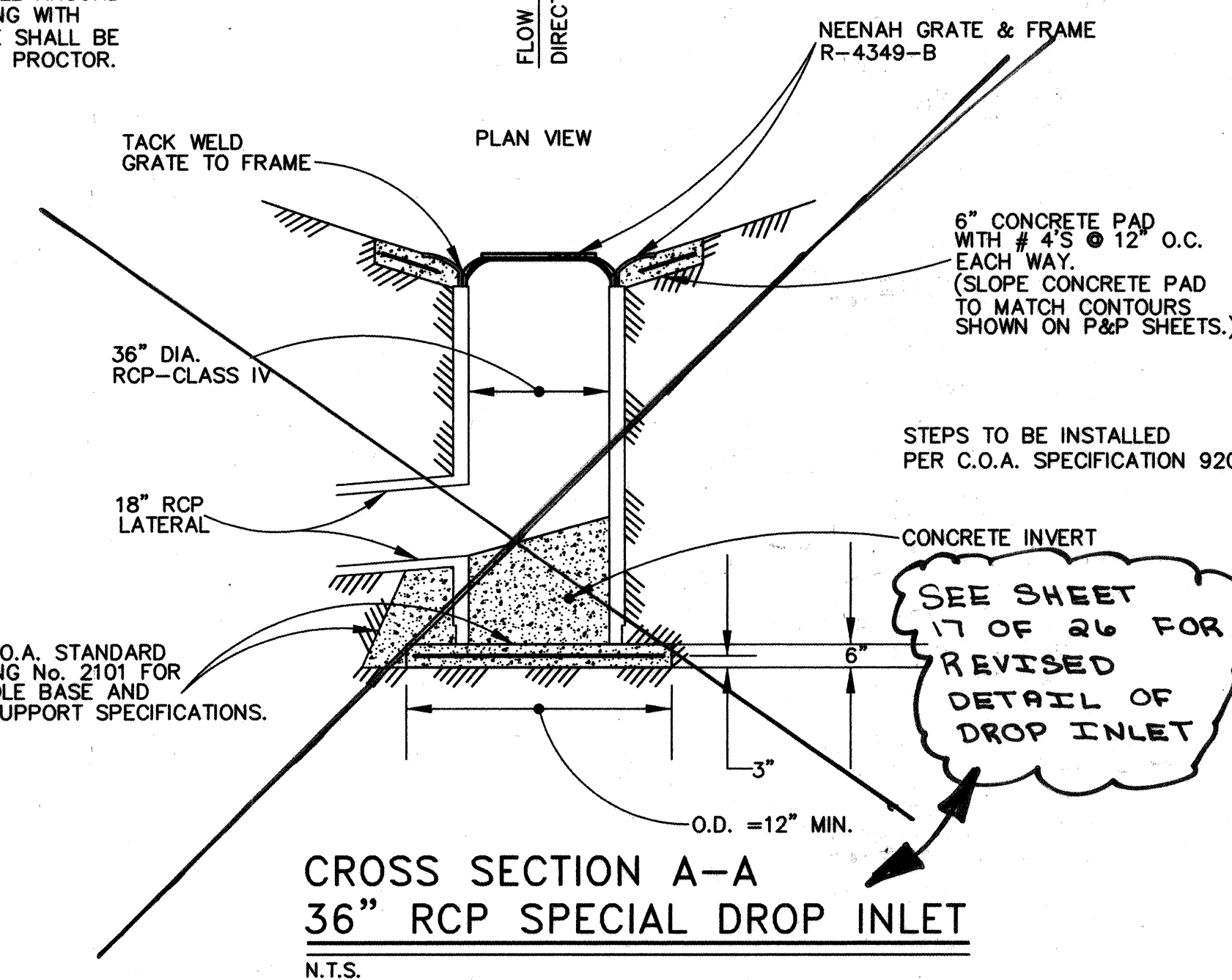
SCALE: 1/4"=1'-0"  
TO BE INSTALLED WITH ALL TEE MH'S.

# KEYED NOTES:

- BACKFILL COMPACTED PER COA STD SPECIFICATIONS.
- 24" SUBGRADE COMPACTED TO 95% ASTM D-1557. COMPACT IN LIFTS NOT EXCEEDING 8" LOOSE.
- 4" DIA. MANHOLE RISERS AS REQUIRED.



NOTE: ALL BACKFILL AROUND  
DROP INLET ALONG WITH  
UNDER THE BASE SHALL BE  
95% OF MODIFIED PROCTOR.



CROSS SECTION A-A  
36" RCP SPECIAL DROP INLET

N.T.S.

## HANDLING OF SEWAGE

THE CONTRACTOR WILL BE REQUIRED TO HANDLE THE  
EXISTING SEWAGE FLOW IN ORDER TO INSTALL THE  
NEW 6" SAS SERVICE LINE AS SHOWN ON THIS SHEET.

FOR INFORMATION ONLY

		196105D Smith Engineering Company A Full Service Engineering Company 6000 Olympic Boulevard, N.E. Suite 5000 Albuquerque, New Mexico 87110	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: WEST MESA DIVERSION PROJECT PHASE 2A DETAIL SHEET			
Design Review Committee APPROVED AUG 10 2000	City Engineer Approval APPROVED AUG 10 2000	No. / Day / Yr. 18 / 05 / 00	No. / Day / Yr. 26 / 05 / 00
City Project No. 6410.91	Zone Map No. J-10	Sheet 18	Of 26

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

SURVEY INFORMATION		FIELD NOTES	
NO.	DATE	NO.	DATE

ENGINEER'S SEAL  

 7-21-00

REVISIONS	DATE	BY
DESIGN	05/00	DLA



GENERAL NOTES:

1. DISINFECTION AND FILLING OF WATER LINES SHALL CONFORM TO THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS 801.17 EXCEPT AS MODIFIED HEREIN. THIS WORK IS INCIDENTAL TO THE WATERLINE CONSTRUCTION. NO ADDITIONAL PAYMENT WILL BE MADE.
2. ALL NECESSARY MEASURES SHALL BE TAKEN TO PREVENT CONTAMINATED MATERIALS FROM ENTERING THE WATER LINE DURING STORAGE, CONSTRUCTION, OR REPAIR INCLUDING CAPPING THE WATER LINE AT NIGHT AND DURING ALL BREAKS IN PIPE LAYING.
3. REMOVE ANY MATERIALS, DIRT OR DEBRIS THAT MAY HAVE ENTERED THE WATER LINE PRIOR TO DISINFECTION.
4. ADD A FLUSHING/DRAINING PORT TO ALL DEAD END LINES DISCHARGE POINTS AND FILLING POINTS WHICH ARE NOT FIRE HYDRANTS. PORT SHALL BE 2" MIN. UNLESS SHOWN OTHERWISE. PORT SHALL ALLOW PIPE TO FULLY DRAIN.
5. FILL THE WATER LINE PER THE PLAN SHOWN ON THIS SHEET THROUGH AN APPROVED BACK FLOW PREVENTION DEVICE. CONTRACTOR SHALL USE NECESSARY METHODS TO ALLOW ALL AIR IN THE WATER LINE TO RELEASE WITHOUT CONTAMINATING ANY EXISTING WATER LINES OR FIELD TAPPING CONCRETE CYLINDER PIPE.
6. PRESSURE TEST IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATION 801.16.
7. DISINFECT THE WATER LINE PER CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS 801.17 AND AWWA C651 (LATEST EDITION). SODIUM OR CALCIUM HYPOCHLORITE ARE THE ONLY PERMISSIBLE FORMS OF CHLORINE TO BE USED. GRANULES OR TABLETS SHALL NOT BE PLACED IN THE WATER LINE, HOWEVER THEY MAY BE USED TO PREMIX A HIGHLY CHLORINATED SOLUTION. CONTRACTOR SHALL ENSURE THAT GRANULES OR TABLETS NOT DISSOLVED ARE NOT INTRODUCED INTO THE WATER LINE FROM THE HIGHLY CHLORINATED WATER BY SCREENING THE DISCHARGE FROM THE PRE-MIXING VESSEL OR BY OTHER PROVEN MEANS.
8. THE SLUG OR CONTINUOUS-FEED METHOD SHALL BE USED (WITH PRELIMINARY FLUSHING ON LINES LESS THAN 24" IN DIAMETER AND BROOM SWEEPING ON LINES 24" AND LARGER).
9. AFTER THE REQUIRED RETENTION PERIOD, HEAVILY CHLORINATED WATER SHALL BE FLUSHED FROM THE WATER LINE PER THIS PLAN. INTRODUCE FLUSH WATER THROUGH AN APPROVED BACK FLOW DEVICE. DECHLORINATION IS REQUIRED WHEN NOTED ON THIS PLAN.
10. FLUSH THE WATER LINE BY CAREFULLY THROTTLING THE VALVE AT THE DISCHARGE END TO PREVENT A VACUUM IN THE WATER LINE AND TO PREVENT INUNDATING THE DISCHARGE STRUCTURE.
11. IF FLUSHING INTO A SANITARY SEWER NOTIFY THE WASTEWATER UTILITY DIVISION AT 873-7015 PRIOR TO FLUSHING. IF FLUSHING TO A CITY OF ALBUQUERQUE STORM SEWER OR DRAINAGE CHANNEL NOTIFY THE HYDROLOGY DIVISION AT 768-3654. IF FLUSHING TO AN AMAFCA STRUCTURE NOTIFY AMAFCA AT 884-2215 PRIOR TO FLUSHING. FLUSHING LINE SHALL BE SUPPORTED BY A STAND TO MAINTAIN AN 18" SEPARATION BETWEEN THE FLUSHING LINE AND THE DISCHARGE POINT OR MANHOLE RIM.
12. WHEN THE FLUSH WATER RESIDUAL CHLORINE IS LESS THAN 2.0 mg/L, THE CITY WILL TAKE A POTABILITY TEST. UPON PASSING THE CONTRACTOR SHALL REMOVE THE METER AND BACK FLOW PREVENTION DEVICE. IF LINE DOES NOT PASS, CONTRACTOR SHALL REPEAT DISINFECTION AND/OR FLUSHING UNTIL LINE PASSES.
13. PROVIDE CITY WITH A RECORD OF THE WATER VOLUME USED TO FILL AND FLUSH THE WATER LINE BASED ON WATER METER READINGS.
14. CONTRACTOR MAY SUBMIT AN ALTERNATE FILLING, DISINFECTING, AND FLUSHING PLAN FOR REVIEW AND APPROVAL AT LEAST 5 WORKING DAYS PRIOR TO FILLING.
15. THROTTLING SHALL BE PERFORMED USING VALVES NOT FIRE HYDRANTS.
16. THE CONTRACTOR SHALL BE GRANTED FREE WATER FOR TESTING AND FLUSHING. IF THE WATER LINE FAILS THE HYDROSTATIC OR POTABILITY TEST, THE CONTRACTOR SHALL PAY FOR THE ADDITIONAL WATER REQUIRED FOR RETESTING.

WATER SHUTOFF GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR TIMING AND COORDINATION OF THE WATER SHUT-OFF REQUIREMENTS IN CONJUNCTION WITH THE COMPLETION OF THIS PROJECT.
2. AT LEAST FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CONTACT THE PUBLIC WORKS DEPARTMENT WATER SYSTEMS DIVISION (857-8200) TO INITIATE IMPLEMENTATION OF THIS WATER SHUT-OFF PLAN.
3. ALL EFFECTED PROPERTY OWNERS OF A WATER-SHUT OFF SHALL BE NOTIFIED ONE WEEK PRIOR TO WATER-SHUT OFF.

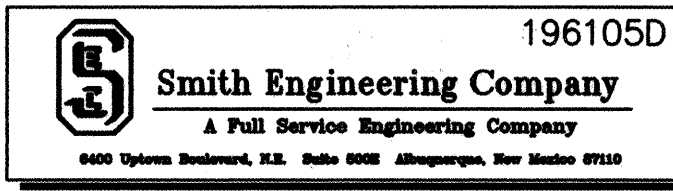
WATER SHUT OFF REQUIREMENTS

WORK ITEM	VALVES TO BE CLOSED DURING WORK ITEM	FIRE HYDRANTS OUT OF SERVICE DURING WORK ITEM
LOWERING OF 16" WL IN GLENRIO RD. AT 64TH STREET.	491, 492, 493	NONE
LOWERING OF 8" WL IN 64TH STREET AT GLENRIO ROAD.	492	NONE

THIS SHEET GENERATED FROM CITY OF ALBUQUERQUE G.I.S. INFORMATION

FOR INFORMATION ONLY

200' 0 400' 800'  
SCALE: 1" = 400'

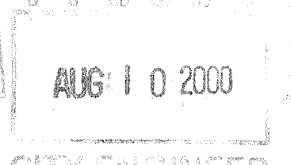


CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

TITLE: WEST MESA DIVERSION PROJECT PHASE 2A  
WATER SHUT OFF PLAN

Design Review Committee

City Engineer Approval



City Project No.

6410.91

Zone Map No.

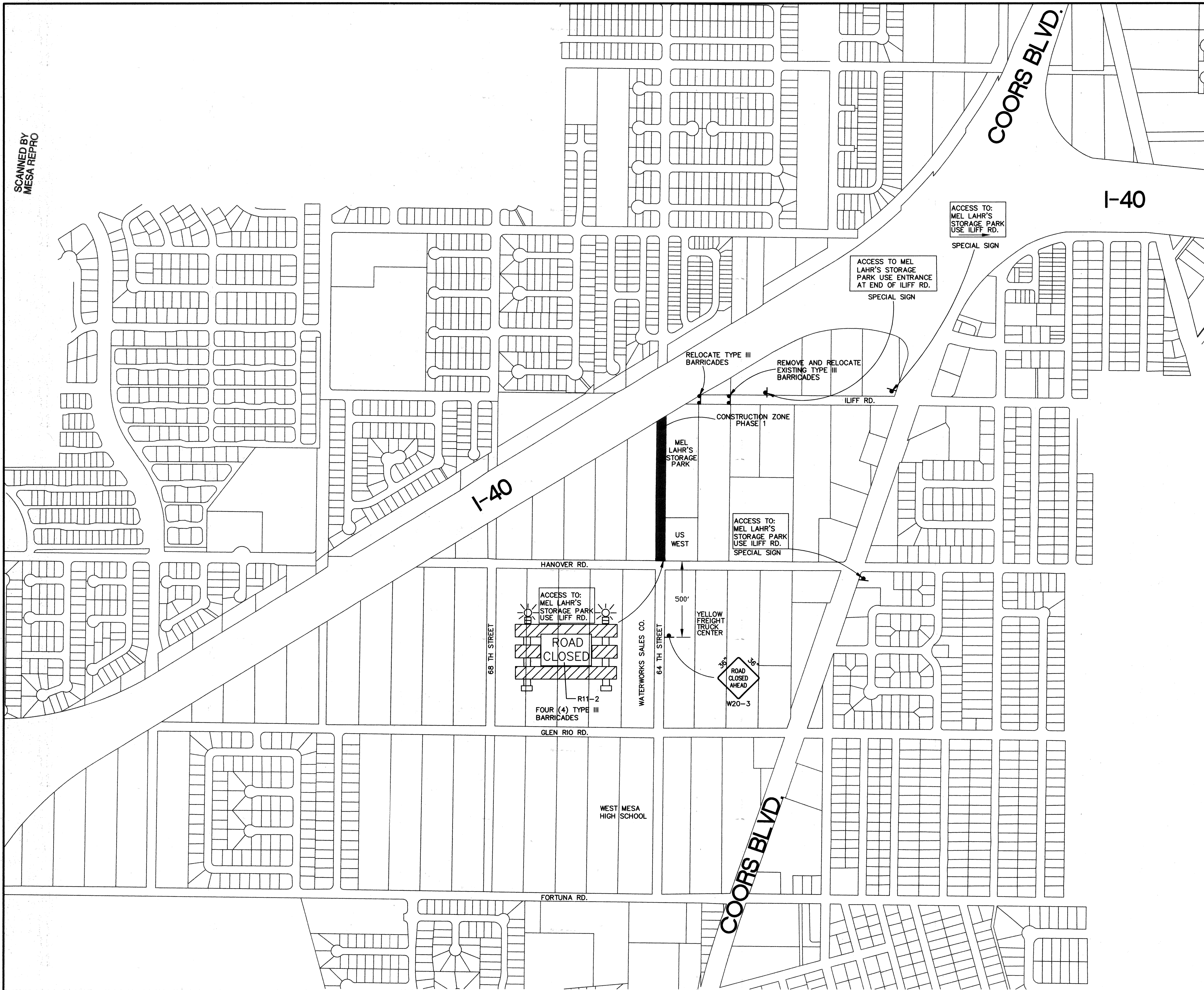
J-10

Sheet

19

26





GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE ACCESS TO MEL LAHR'S STORAGE PARK AT ALL TIME DURING CONSTRUCTION.
2. TRAFFIC CONTROL PHASES 2 AND 4 CAN NOT BE UTILIZED BY THE CONTRACTOR AT THE SAME TIME.

FOR INFORMATION ONLY  
200' 0 400' 800'  
SCALE: 1" = 400'

196105D  
Smith Engineering Company  
A Full Service Engineering Company  
6000 Uptown Boulevard, N.E. Suite 2000 Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

TITLE: WEST MESA DIVERSION PROJECT PHASE 2A  
TRAFFIC CONTROL PLAN PHASE 1

Design Review Committee  
AUG 10 2000

City Engineer Approval  
AUG 10 2000

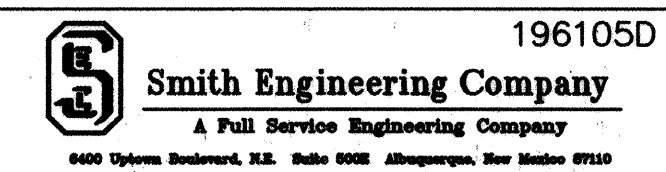
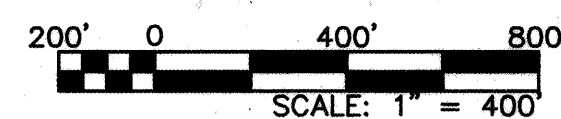
Last Design Update

City Project No. 6410.91 Zone Map No. J-10 Sheet 20 of 26

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	DATE	NO.	DATE	NO.	DATE
		1-40-18	NMSHC/AGS ELEV. 5103.98 FEET (SLD 1929)	CONTRACTOR	DATE
		ALBUQUERQUE, AT THE HIGHWAY I-40 AND STATE ROAD		WORKED BY	DATE
		448 (COORS RD., NW) INTERCHANGE. STATION MARK IS A		INSPECTOR'S	DATE
		STANDARD NMSHC BRASS TABLET, STAMPED		ACCEPTANCE BY	DATE
		"STA 1-40-18", SET IN TOP OF A CONCRETE POST FLUSH		VERIFICATION BY	DATE
		WITH THE GROUND. (N 1494859.08 E 364150.93)		COMMANDED BY	DATE
				NO.	DATE



ENGINEER'S SEAL	REMARKS	BY	DATE
	DESIGN		05/00
	REVISIONS		05/00
	DESIGNED BY	DATE	05/00
	DRAWN BY	DATE	05/00
	CHECKED BY	DATE	05/00





CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

**TITLE: WEST MESA DIVERSION PROJECT PHASE 2A**  
**TRAFFIC CONTROL PLAN PHASE 2**

<b>Design Review Committee</b> 		<b>City Engineer Approval</b> 		<b>Last Design Update</b>	<b>No. / Day / Yr.</b> <div></div>		<b>No. / Day / Yr.</b> <div></div>	
<b>City Project No.</b> <div>641091</div>		<b>Zone Map No.</b> <div>J-10</div>		<b>Sheet</b> <div>21</div>	<b>Of</b> <div>26</div>			

1. CONTRACTOR SHALL PROVIDE ACCESS TO MEL LAHR'S STORAGE PARK AT ALL TIME DURING CONSTRUCTION.
2. TRAFFIC CONTROL PHASES 2 AND 4 CAN NOT BE UTILIZED BY THE CONTRACTOR AT THE SAME TIME.

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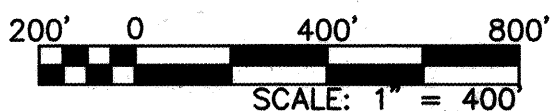




1. TRAFFIC CONTROL PHASES 2 AND 4 CAN NOT BE UTILIZED BY THE CONTRACTOR AT THE SAME TIME

[illegible]

FOR INFORMATION ONLY



**Smith Engineering Company**  
A Full Service Engineering Company

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

**TITLE: WEST MESA DIVERSION PROJECT PHASE 2A  
TRAFFIC CONTROL PLAN PHASE 3**

Design Review Committee

City Engineer Approval

**APPROVE**

**AUG 10 2000**

CITY ENGINEER

## Last Design Update

No. / Day / Yr.	No. / Day / Yr.

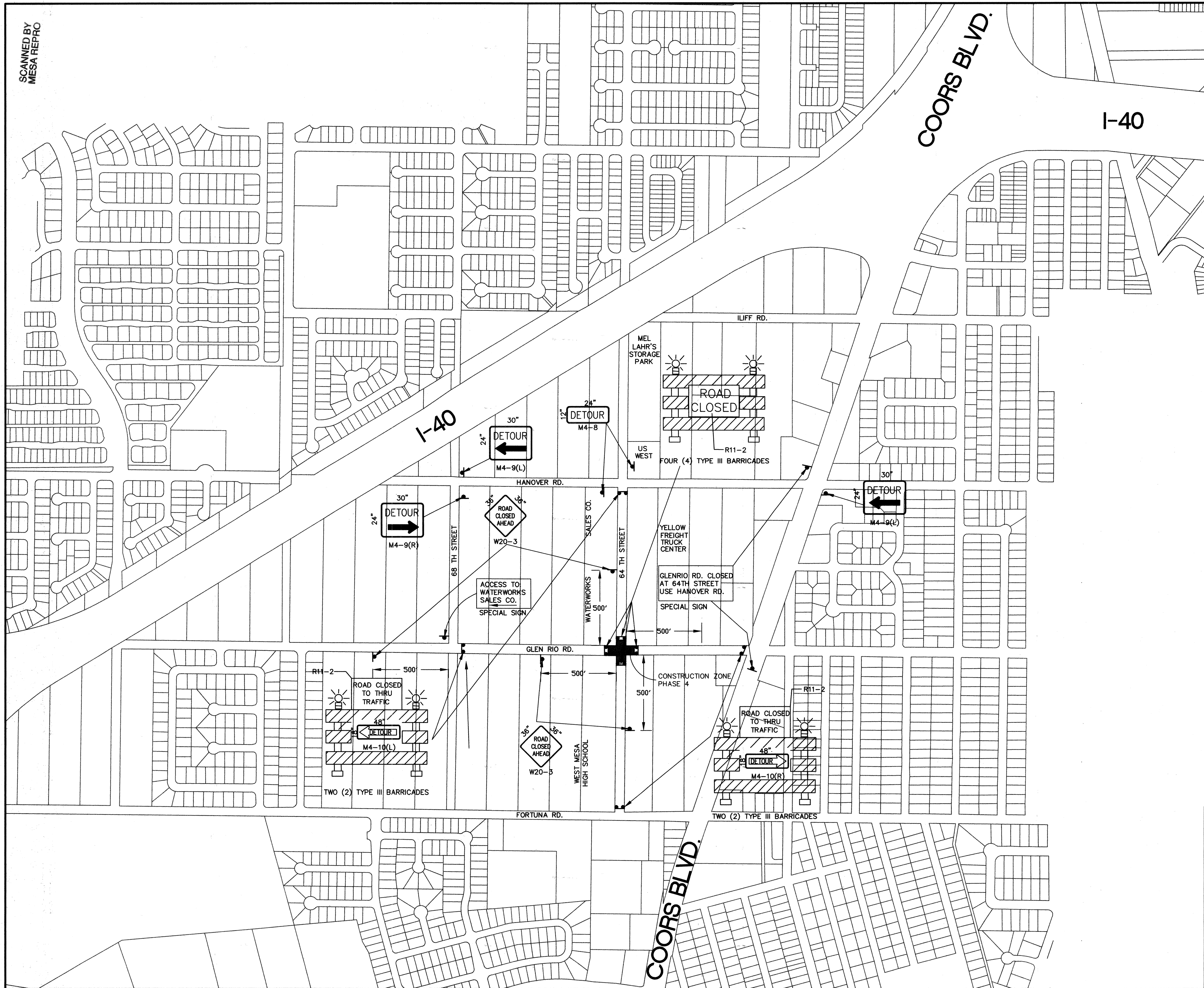
City Project No. 6410.91

Zone Map No.  
J-10

Sheet 22 of 26



SCANNED BY  
MESA REPRO



GENERAL NOTES:

1. TRAFFIC CONTROL PHASES 2 AND 4 CAN NOT BE UTILIZED BY THE CONTRACTOR AT THE SAME TIME.

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200' 0 400' 800'  
SCALE: 1" = 400'

1961050  
Smith Engineering Company  
A Full Service Engineering Company  
5000 Uptown Boulevard, N.E. Suite 1000 Albuquerque, New Mexico 87110

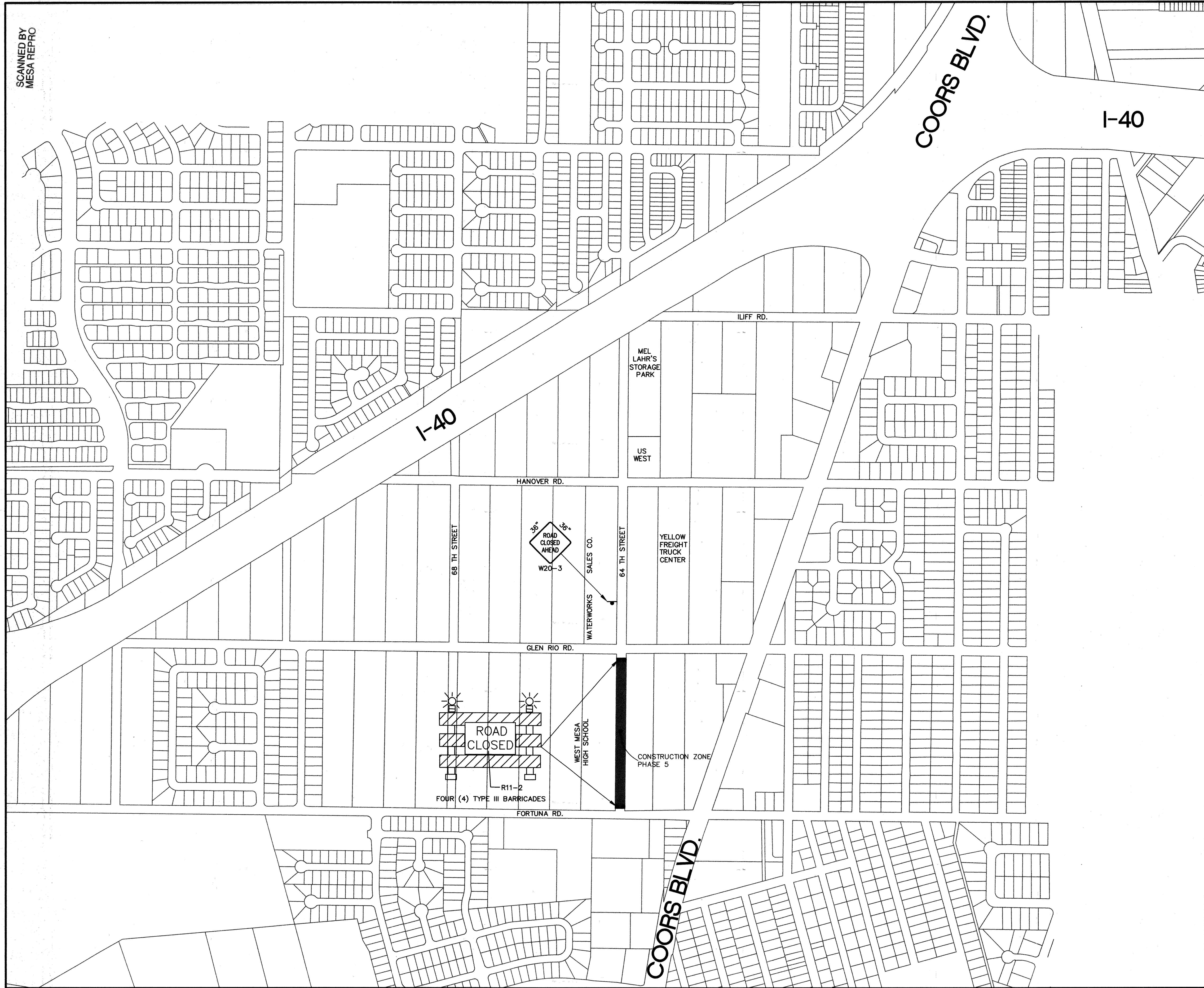
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: WEST MESA DIVERSION PROJECT PHASE 2A TRAFFIC CONTROL PLAN PHASE 4	
Design Review Committee APPROVED AUG 10 2000	City Engineer Approval APPROVED AUG 10 2000
City Project No. 6410.91	Zone Map No. J-10
Sheet 23	Of 26

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL	
CONTRACTOR	DATE	STATION	ELEV.	NO.	DATE	REMARKS	BY
1-40-18 NMSHC/ACS	5103.98 FEET (SLD 1929)	STATION IS LOCATED 3.5 MILES NW OF DOWNTOWN ALBUQUERQUE, AT THE HIGHWAY I-40 AND STATE ROAD 448 (COORS RD., NW) INTERCHANGE. STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA 1-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494859.08, E 364150.93)					
INSPECTOR'S SIGNATURE	DATE	INSPECTOR'S SIGNATURE	DATE	NO.	DATE	REVISIONS	BY
						DESIGN	
VERIFICATION BY	DATE	VERIFICATION BY	DATE	DESIGNED BY	DATE	DRAWN BY	DATE
CHECKED BY	DATE	CHECKED BY	DATE	CHECKED BY	DATE	CHECKED BY	DATE



N:\1961050\Phase2A\Traffic Control\Option1\TC-PHASE 5.dwg Fr1 Jul 21 07:30:14 2000 Stephanie D. Dubois

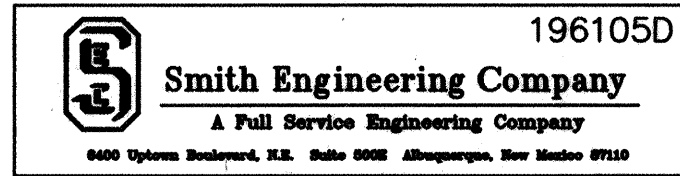
SCANNED BY  
MESA REPRO



GENERAL NOTES:

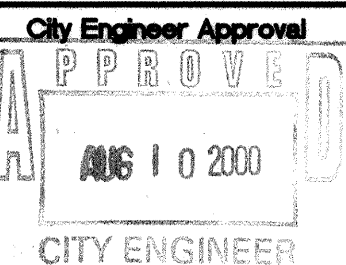
1. TRAFFIC CONTROL PHASES 2 AND 4 CAN NOT BE UTILIZED BY THE CONTRACTOR AT THE SAME TIME.

FOR INFORMATION ONLY  
200' 0 400' 800'  
SCALE: 1" = 400'



CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

TITLE: WEST MESA DIVERSION PROJECT PHASE 2A  
TRAFFIC CONTROL PLAN PHASE 5

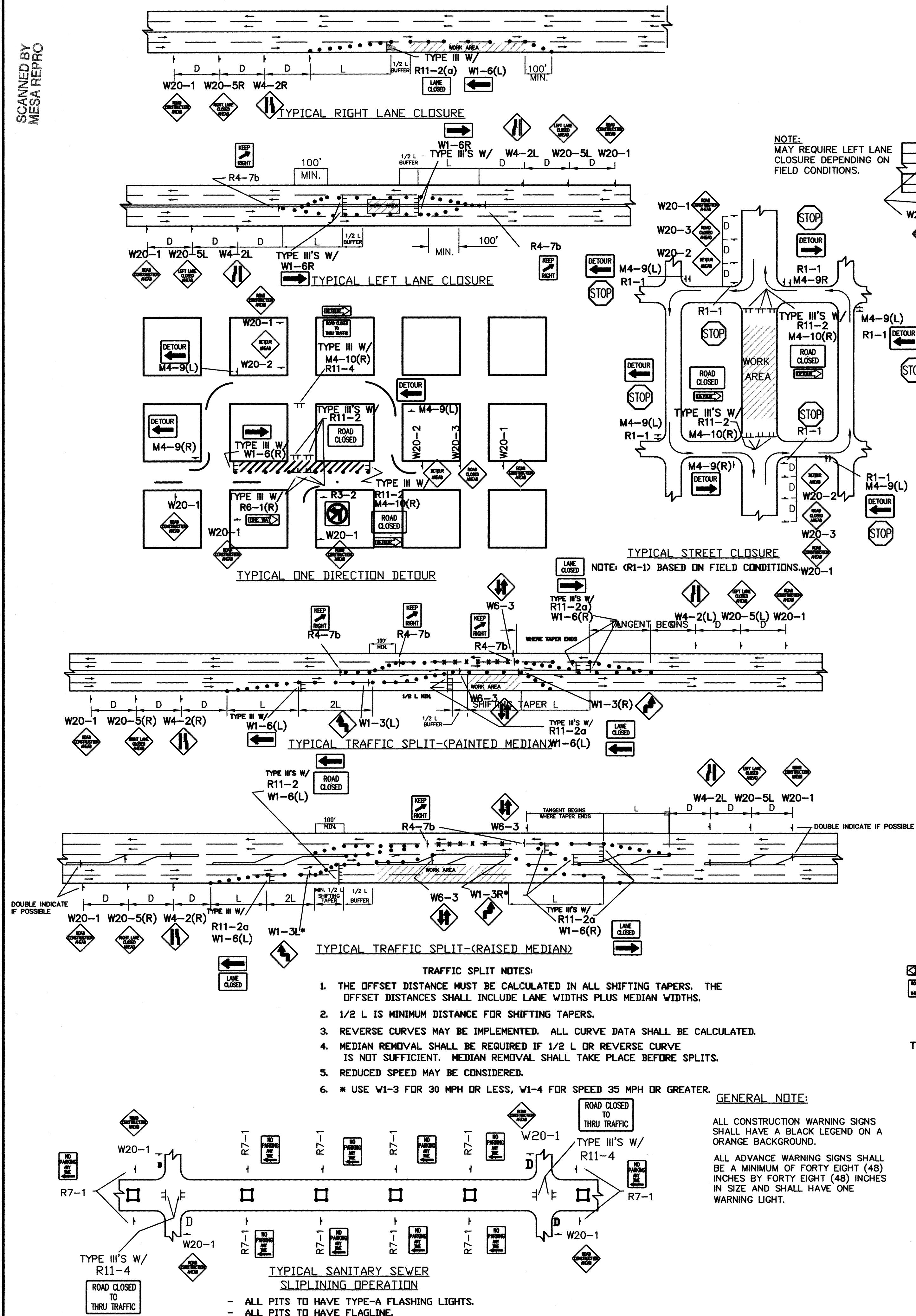


Last Design Update

City Project No. 6410.91 Zone Map No. J-10 Sheet 24 of 26

ENGINEERS SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
	REVISIONS	NO.	DATE	BY	FIELD NOTES	CONTRACTOR	DATE
						1-40-18 NMHC/ACS	ELEV. 5103.98 FEET (SLD 1929)
						STATION IS LOCATED 3.5 MILES NW OF DOWNTOWN	
						ALBUQUERQUE, AT THE HIGHWAY I-40 AND STATE ROAD	
						448 (COORS RD., NW) INTERCHANGE. STATION MARK IS A	
						STANDARD NMHC BRASS TABLET, STAMPED	
						"STA 1-40-18" SET IN TOP OF A CONCRETE POST FLUSH	
						WITH THE GROUND. (N 1494859.08, E 364150.93)	
						RECORDED BY	DATE
						NO.	





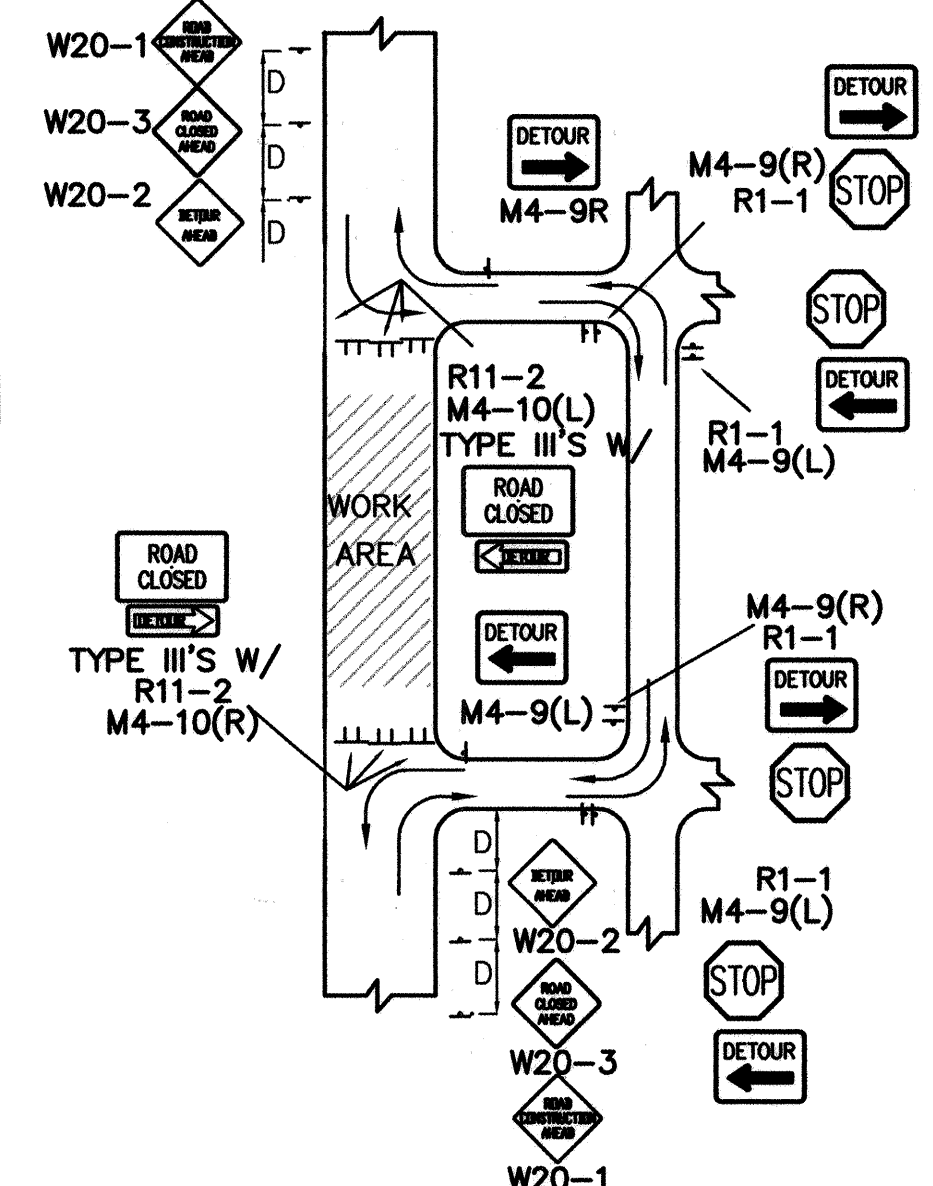
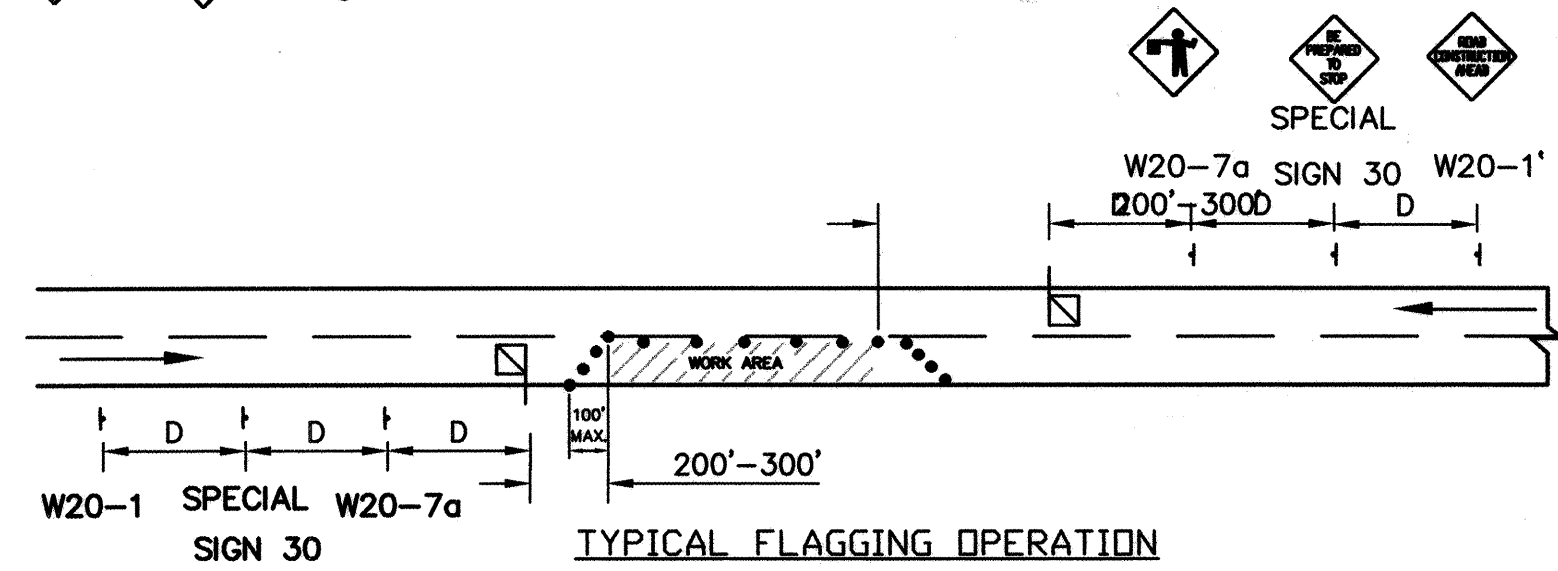
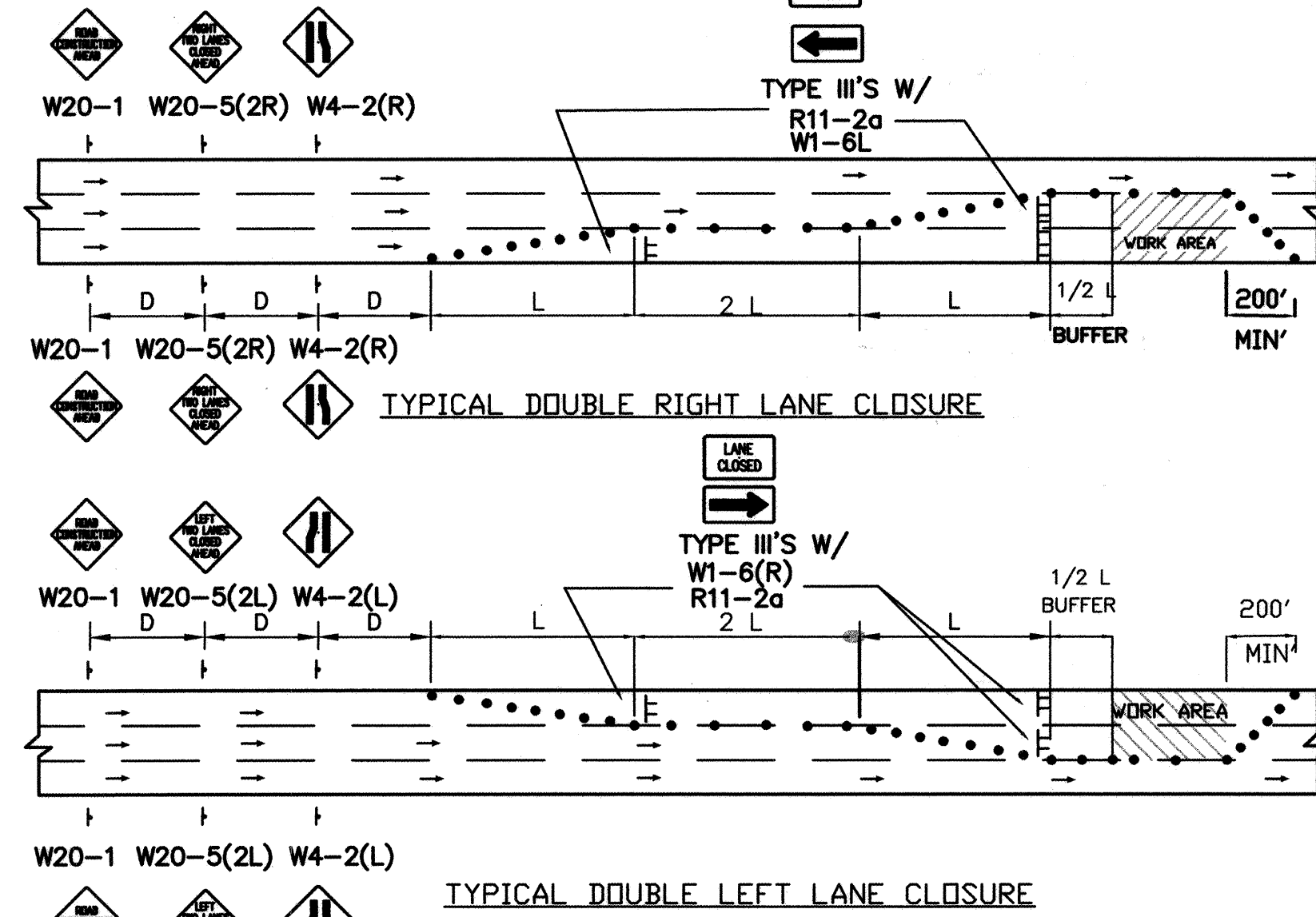
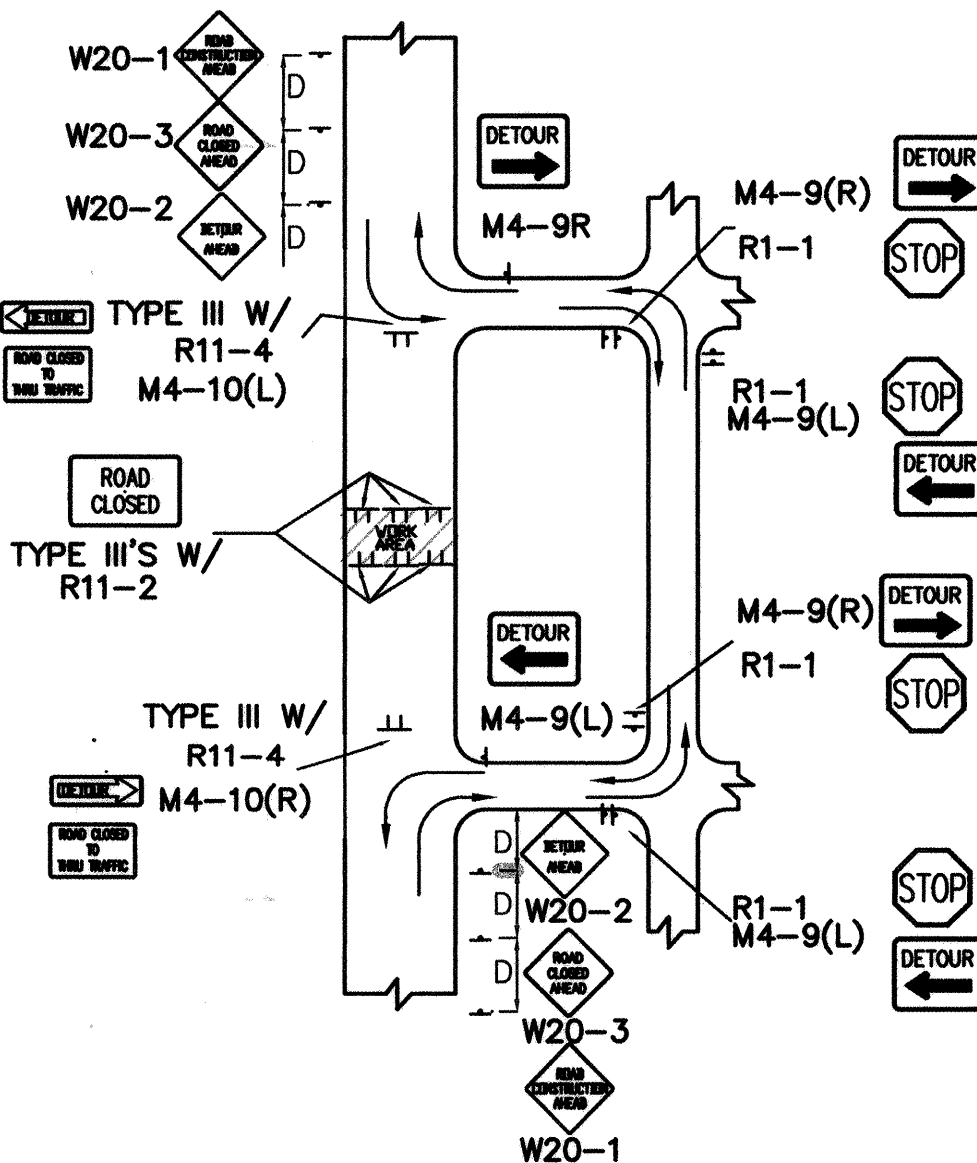
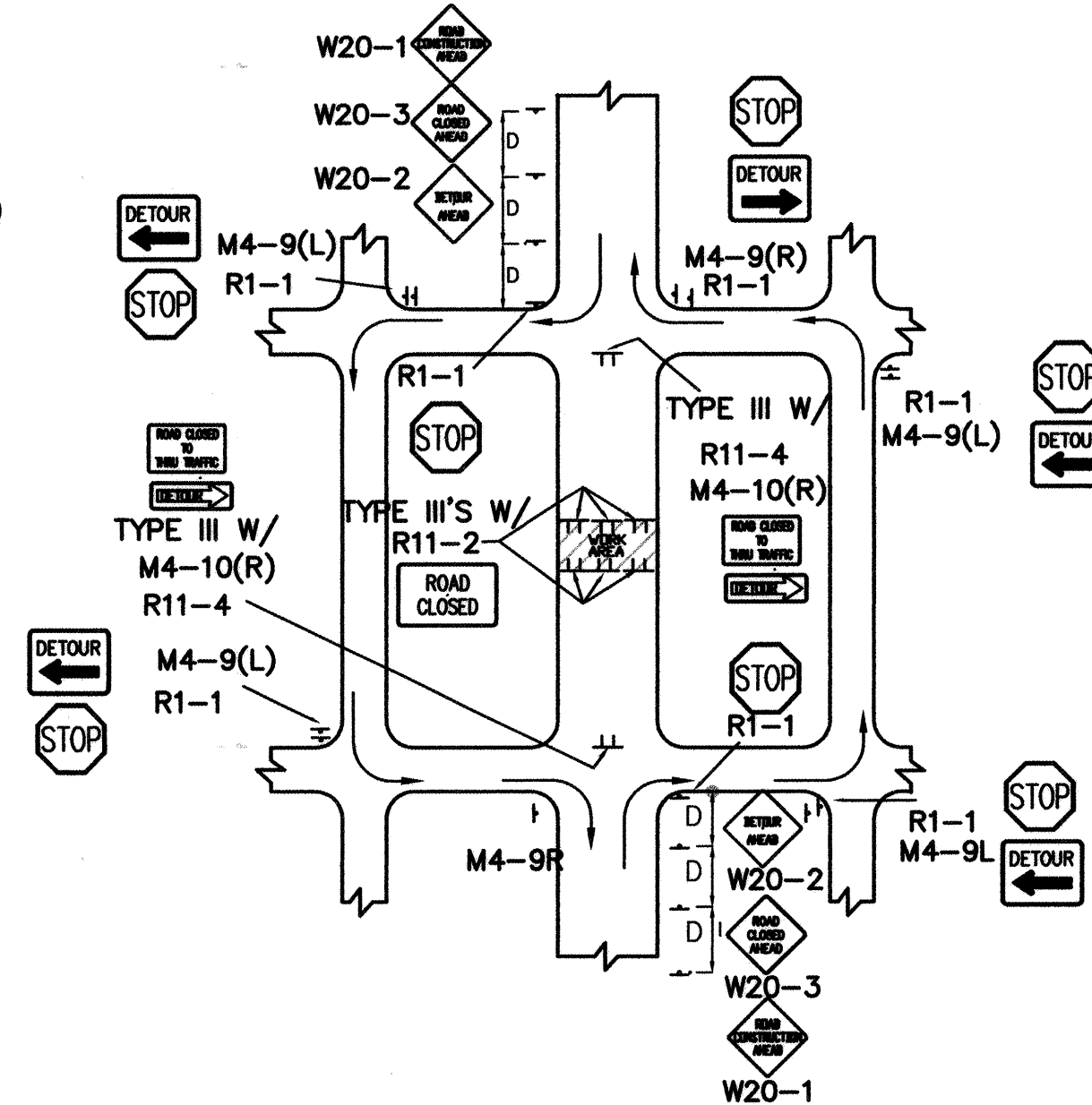
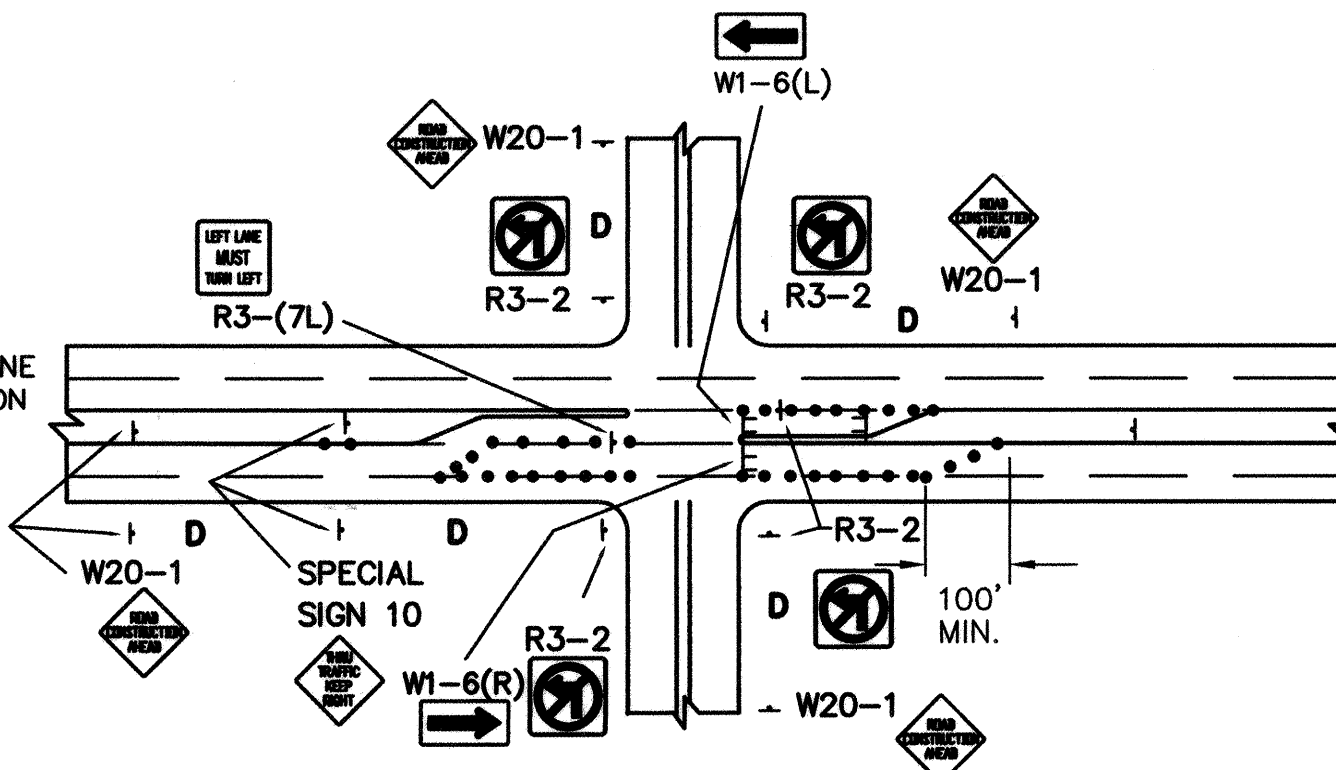
- TRAFFIC SPLIT NOTES:**
1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
  2. 1/2 L IS MINIMUM DISTANCE FOR SHIFTING TAPERS.
  3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
  4. MEDIAN REMOVAL 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.

**GENERAL NOTE:**

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

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



FOR INFORMATION ONLY

Smith Engineering Company  
196105D  
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6000 Sycamore Boulevard, N.E. Suite 2000 Albuquerque, New Mexico 87110

**CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP**

**TITLE: WEST MESA DIVERSION PROJECT PHASE 2A  
TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES**

Design Review Committee	City Engineer Approval	No. / Day / Yr.	No. / Day / Yr.
NR	conf		
City Project No.	Zone Map No.	Sheet	Of
6410.91	J-10	25	26

**AS BUILT INFORMATION**

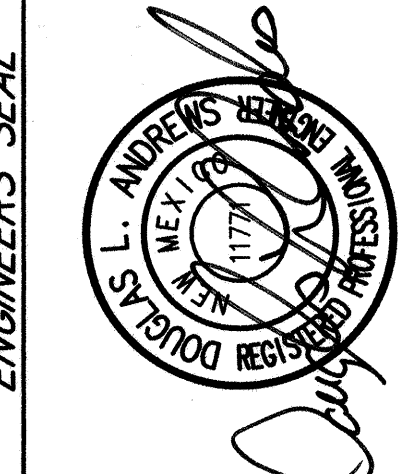
CONTRACTOR: RMC, INC.  
STATION: 3.5 MILES NW OF DOWNTOWN ALBUQUERQUE, AT THE HIGHWAY I-40 AND STATE ROAD 448 (COORS RD., NW) INTERCHANGE. STATION MARK IS A STANDARD NMSSC BRASS TABLET, STAMPED "STA I-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494859.08, E 364150.93)

**REVISIONS**

NO.	DATE	BY	REMARKS

**DESIGNED BY** DLA  
**DRAWN BY** DLA  
**CHECKED BY** DLA

**DATE** 05/00  
**DATE** 05/00  
**DATE** 05/00





## CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

11. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24-HOUR PER DAY BASIS UNTIL COMPLETED.

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, 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. 48-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.

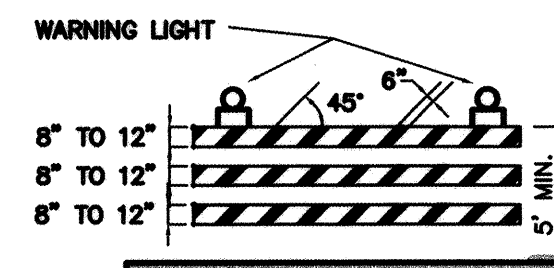
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.

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

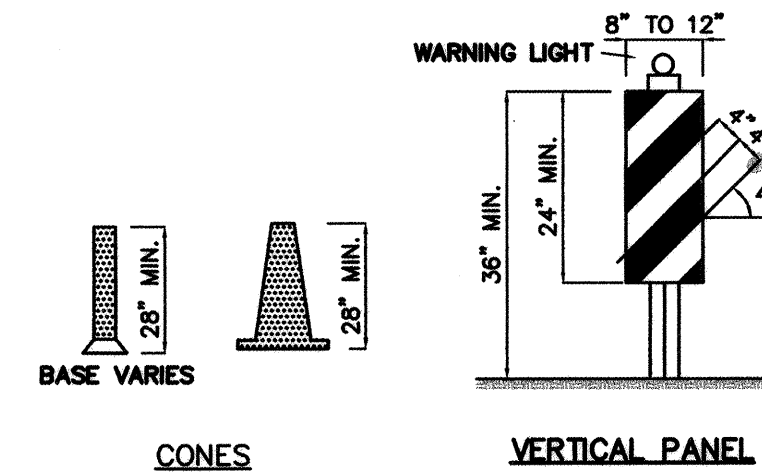
26. ADVANCE WARNING SIGNS SHALL BE 36"x36" WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48-INCH SIGN AS INDICATED IN THE MUTCD.

27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

28. CONSTRUCTION COORDINATION DIVISION RESERVES THE RIGHT TO WITHHOLD BARRICADE AND EXCAVATION PERMITS IN ORDER TO ELIMINATE CONFLICTS WITH OTHER ON-GOING PROJECTS IN THE VICINITY OR OTHER SPECIAL EVENTS. BARRICADING PERMITS EFFECTING LANES OF TRAFFIC ON EITHER GOLF COURSE ROAD OR IRVING BOULEVARD WILL NOT BE ISSUED FOR THE PERIOD BETWEEN DECEMBER 8, 1997 UNTIL DECEMBER 28, 1997.



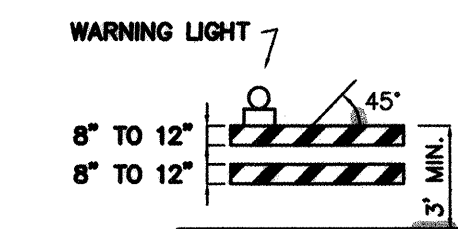
TYPE III BARRICADE



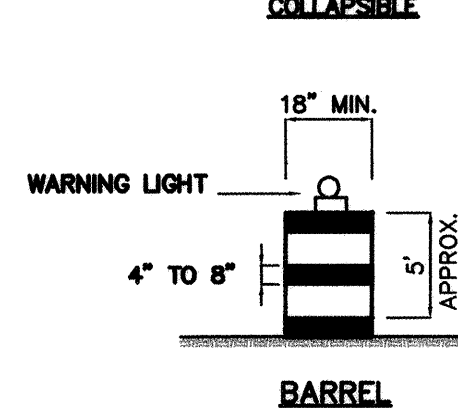
CONES

VERTICAL PANEL

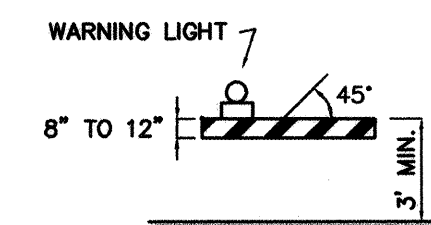
HIGH LEVEL WARNING DEVICE



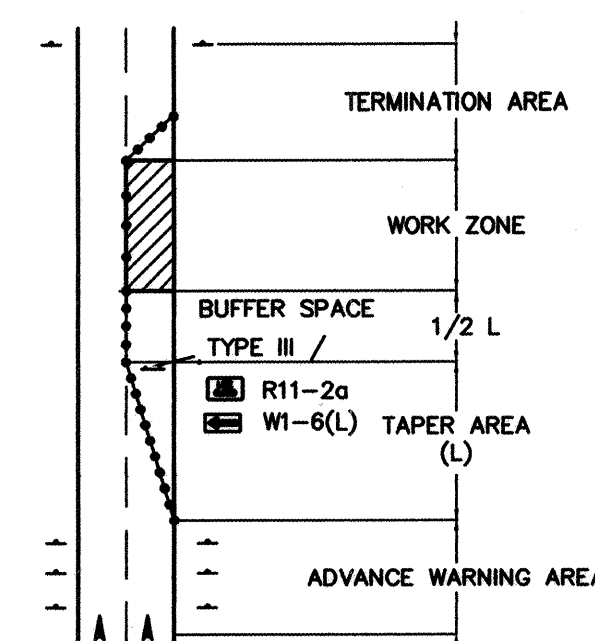
TYPE II BARRICADE COLLAPSIBLE



BARREL



TYPE I BARRICADE COLLAPSIBLE



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 (L) (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		BEFORE 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 MILES PER HOUR	MINIMUM DISTANCE 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

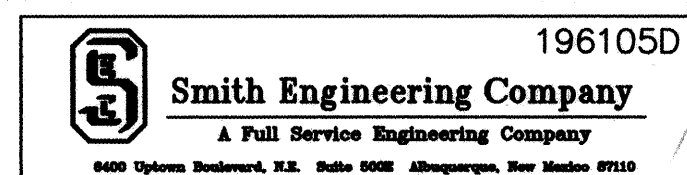
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

## TAPER LENGTH COMPUTATION

SPEED LIMIT	L = W <sup>2</sup> / 60
40 MPH OR LESS	L = W <sup>2</sup> / 60
45 MPH OR GREATER	L = W x S

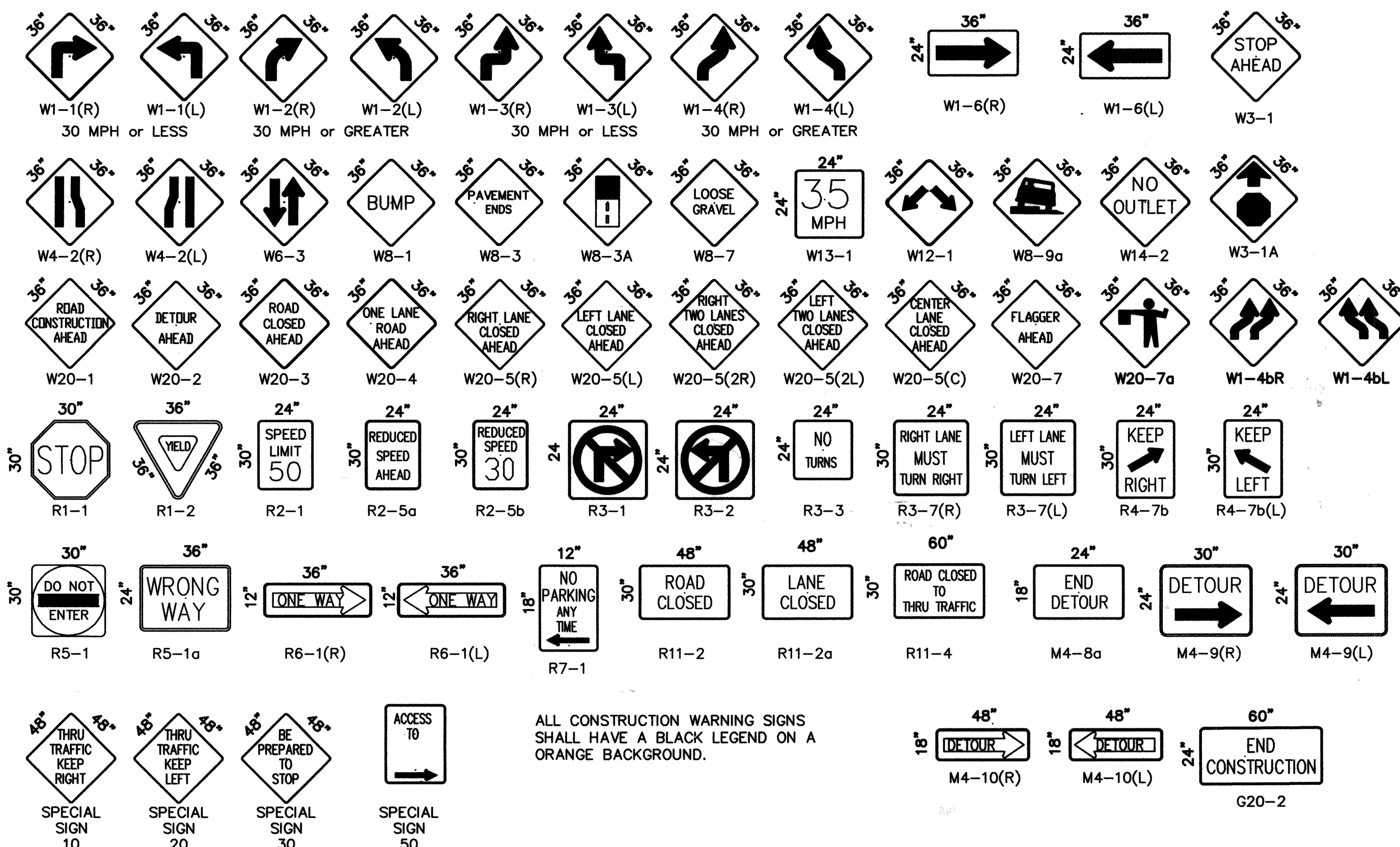
L = TAPER LENGTH  
W = WIDTH OF OFFSET IN FEET  
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

## FOR INFORMATION ONLY



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: WEST MESA DIVERSION PROJECT PHASE 2A SIGNING & CONSTRUCTION TRAFFIC CONTROL STANDARDS	
Design Review Committee	City Engineer Approval
NO. DATE	REVISIONS
DESIGNED BY DLA	DATE 05/00
DRAWN BY DLA	DATE 05/00
CHECKED BY DLA	DATE 05/00
City Project No. 641091	Zone Map No. J-10
Sheet 26	26

## SIGN FACE DETAILS



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