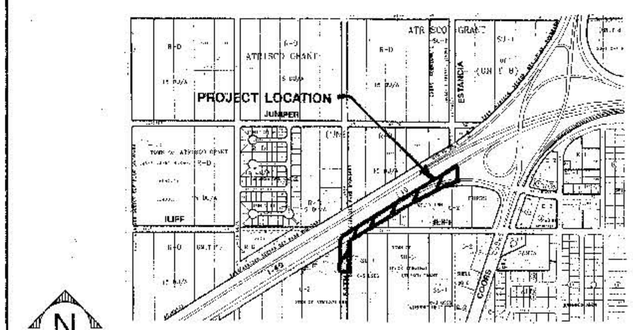
CITY OF
Albuquerque

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
PLANS FOR CONSTRUCTION

WEST MESA DIVERSION PROJECT
PHASE I

VICINITY MAP



GRAPHIC SCALE
MAP NO. H-10Z & H-11Z

NOTE: THE CONTRACTOR MUST CONTACT Ms. BENITA BECK OF THE NEW MEXICO STATE HIGHWAY & TRANSPORTATION DEPARTMENT (NMSH&TD) AT (505) 841-2764 OR FAX (505) 841-2790 TO NOTIFY THE NMSH&TD OF THE CONSTRUCTION START DATE. THE NMSH&TD MUST HAVE A FIVE (5) DAY ADVANCE NOTICE AND A FIVE (5) DAY NOTICE OF COMPLETION OF THIS PROJECT.

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
Ellis Chang
DATE 1-30-00

INDEX TO DRAWINGS

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19	TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES
20	SIGNING & CONSTRUCTION TRAFFIC CONTROL STANDARDS

UTILITY COMPANY CONTACTS

PNM
Jim Vorn
4201 Edith Blvd., NE
Albuquerque, New Mexico 87107
(505) 848-3426

GAS CO.
Debbie O'Callaghan
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AT&T
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(505) 842-2808

JONES INTERCABLE
Karen Shore
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P.O. Box 27138
Albuquerque, New Mexico 87125-7138
(505) 761-6220

US WEST COMMUNICATIONS
Norma Carrillo
201 Third Street
P.O. Box 1355, Sta. 952
Albuquerque, New Mexico 87103
(505) 245-8706

CALL BEFORE YOU DIG!
STATEWIDE
1-800-321-ALERT
ALBUQUERQUE
260-1990

SEC JOB # 1961050
Smith Engineering Company
A Pell Harbour Engineering Company
4525 Wyoma Boulevard, N.E. Suite 1000, Albuquerque, New Mexico 87113

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

ENGINEERS STAMP & SIGNATURE

DOUGLAS L. ANDERSON
NEW MEXICO
11777
PROFESSIONAL ENGINEER
5-26-98

APPROVED	ENGINEER	DATE
DRC Chairman	Gilbert A. Gonzales	5-28-98
Transportation	[illegible]	5/26/98
Water/Wastewater	[illegible]	5/26/98
Hydrology	Carlos A. Montoya	5-26-98
C I P		
Const. Mngmt.		
Const. Coordinator	[illegible]	5-28-98

APPROVED FOR CONSTRUCTION

[illegible] 5/21/98
CITY ENGINEER DATE

PROJECT NUMBER 5381.91

SHEET 1 OF 20

GENERAL NOTES:

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 NOT PLACE ANY EXCESS MATERIAL OVER ANY NEW REINFORCED CONCRETE PIPE HE/SHE HAS INSTALLED ABOVE OR OVER THE ELEVATIONS SHOWN ON THESE PLANS.

47 CONTRACTOR SHALL ONLY WORK BETWEEN THE HOURS OF 7:00 AM AND 8:00 PM.

48 CONTRACTOR SHALL "SEED" ALL NATURAL AREAS DISTRURBED DURING CONSTRUCTION. SEE SECTION 1012 OF CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS. 1986 EDITION, INCLUDING ALL UPDATES.

64TH STREET CONSTRUCTION CENTERLINE SURVEY CONTROL INFORMATION

STATION	NORTHING	EASTING
10+00.00	1493594.03	362328.75
11+00.00	1493494.03	362327.70
12+00.00	1493394.04	362326.64
13+00.00	1493294.04	362325.59
20+00.00	1492594.08	362318.20
30.00.000	1491594.14	362307.84

ILIFF ROAD CONSTRUCTION CENTERLINE SURVEY CONTROL INFORMATION

STATION	NORTHING	EASTING
15+00.00	1493660.75	363111.82
16+00.00	1493661.80	363011.82
17+00.00	1493662.86	362911.83
18+00.00	1493663.91	362811.83
19+00.00	1493664.96	362711.84
20+00.00	1493666.02	362611.85

DOUBLE 10' X 12' CBC CENTERLINE SURVEY CONTROL INFORMATION

STATION	NORTHING	EASTING
10+00.00	1494489.33	363369.91
11+00.00	1494389.34	363368.84
12+00.00	1494289.35	363367.77
13+00.00	1494189.35	363366.69
14+00.00	1494089.35	363365.62
14+26.00	1494063.36	363365.34

DRAINAGE EASEMENT CONSTRUCTION CENTERLINE SURVEY CONTROL INFORMATION

STATION	NORTHING	EASTING
10+00.00	1494086.86	363444.09
12+69.12	1494004.87	363189.23
13+98.46	1493945.84	363074.15
22+71.00	1493494.03	362327.70

LOCAL SURVEY CONTROL INFORMATION

POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION	DRAINAGE EASEMENT CONSTRUCTION CENTERLINE STATION AND OFFSET	64TH STREET CONSTRUCTION CENTERLINE STATION AND OFFSET	DOUBLE 10'X12' CBC CENTERLINE STATION AND OFFSET	ILIFF ROAD CONSTRUCTION CENTERLINE STATION AND OFFSET
CP-1	1494103.24	363222.47	5099.97	NO. 5 REBAR & PLASTIC CAP "CONTROL PT. NMPS 11599"	12+00.28, 74.70' RT	N/A	13+87.66, 143.29' RT	13+94.01, 443.63' RT
CP-2	1493542.47	362274.43	5107.02	NO. 5 REBAR & PLASTIC CAP "CONTROL PT. NMPS 11599"	N/A	10+52.13, 53.77' RT	N/A	N/A
CP-3	1492988.48	362175.55	5102.62	NO. 5 REBAR & PLASTIC CAP "CONTROL PT. NMPS 11599"	N/A	16+09.15, 146.78' RT	N/A	N/A

LEGEND:

- EXISTING CHAIN LINK FENCE
- EXISTING OVERHEAD ELECTRIC
- EXISTING 2" HP GAS
- EXISTING 48" SAS
- EXISTING SAS
- EXISTING WATER
- EXISTING STORMDRAIN
- EXISTING BLOCK WALL
- EXISTING WATER GATE VALVE
- EXISTING CATCH BASIN
- 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
- EXISTING SPOT ELEVATION
- EXISTING CONTOUR LINE
- EXISTING TREE
- NEW STORM DRAIN
- CENTERLINE
- TOP OF ASPHALT ELEVATION
- EXISTING BUILDING
- EXISTING CURB AND GUTTER
- SURVEY CONTROL POINT
- EXISTING SIGN
- ROW
- EXISTING EASEMENT LINE
- PROPERTY LINES
- PROPOSED EASEMENT LINE
- PROPOSED CONTOURS
- PROPOSED WATERLINE
- PROPOSED WATERLINE GATE VALVE
- PROPOSED WATERLINE BEND
- PROPOSED FIRE HYDRANT
- PROPOSED BUTTERFLY VALVE
- EXISTING BUTTERFLY VALVE

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK STAKED BY ALBQ. SURVDATE 5-99
INSPECTOR'S ACCEPTANCE BY E. Lovato, COA DATE 5-99
FIELD VERIFICATION BY COA/RMCI DATE 5-99
DRAWINGS CORRECTED BY L.LOPEZ DATE 11-99
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
I-40-18 NMSHC/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 NMSHC BRASS TABLET, STAMPED "STA I-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494859.08, E 364150.93)

SURVEY INFORMATION
FIELD NOTES
NO.	BY	DATE

ENGINEERS SEAL
DOUGLAS L. ANDREWS, NEW MEXICO, 8701, REGISTERED PROFESSIONAL ENGINEER
5-26-98

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN
DESIGNED BY CJR,DLA DATE 04/98
DRAWN BY CJR,DLA DATE 04/98
CHECKED BY DLA DATE 04/98

1961050
Smith Engineering Company
A Full Service Engineering Company

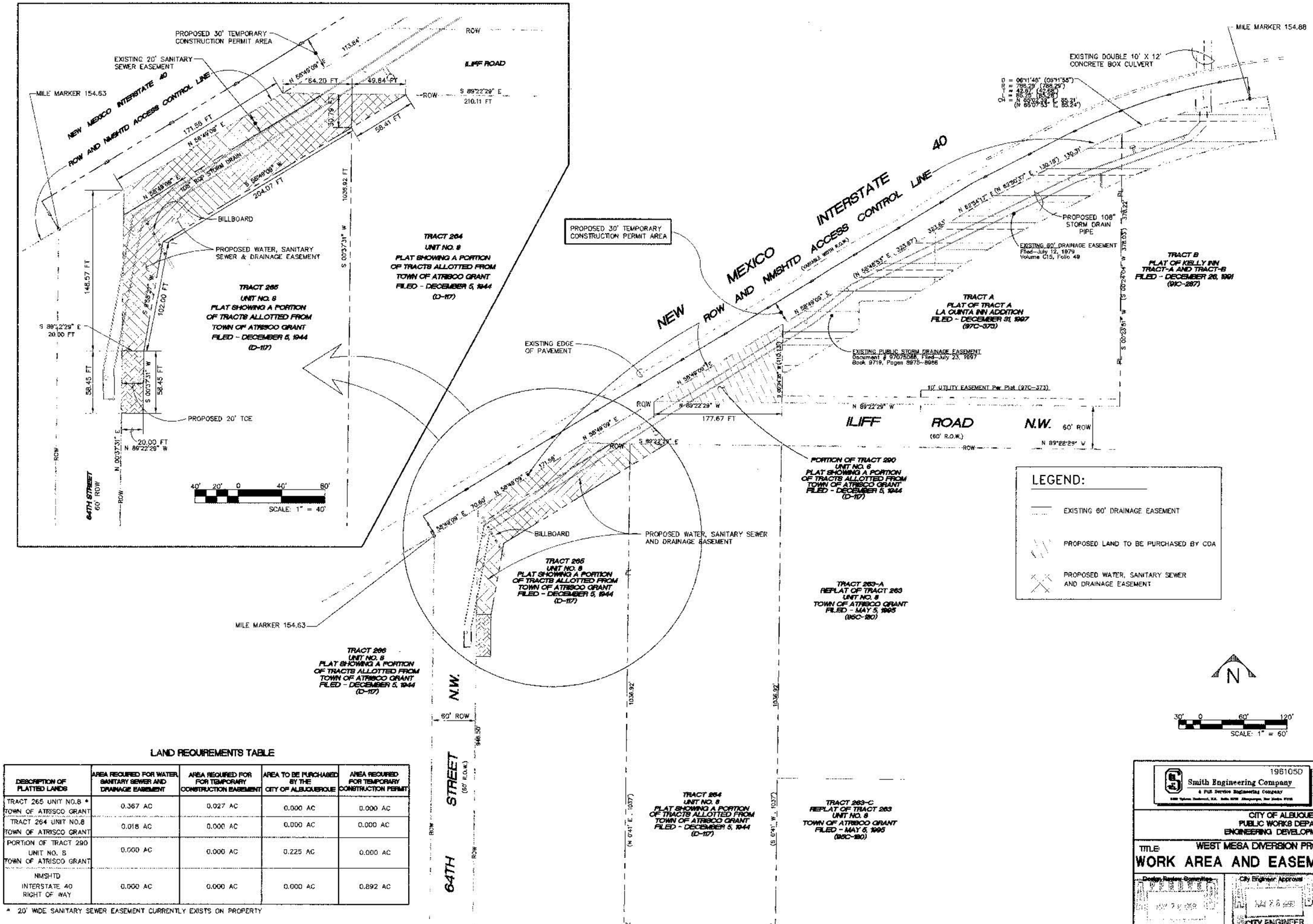
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: WEST MESA DIVERSION PROJECT PHASE I
GENERAL NOTES, LEGEND AND SURVEY CONTROL INFORMATION SHEET

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

[illegible] CITY ENGINEER

City Project No. 5381.91 | Zone Map No. H-10Z, H-11Z | Sheet 2 Of 20



LAND REQUIREMENTS TABLE

DESCRIPTION OF PLATTED LANDS	AREA REQUIRED FOR WATER, SANITARY SEWER AND DRAINAGE EASEMENT	AREA REQUIRED FOR FOR TEMPORARY CONSTRUCTION EASEMENT	AREA TO BE PURCHASED BY THE CITY OF ALBUQUERQUE	AREA REQUIRED FOR TEMPORARY CONSTRUCTION PERMIT
TRACT 265 UNIT NO.8 * TOWN OF ATRISCO GRANT	0.367 AC	0.027 AC	0.000 AC	0.000 AC
TRACT 264 UNIT NO.8 TOWN OF ATRISCO GRANT	0.018 AC	0.000 AC	0.000 AC	0.000 AC
PORTION OF TRACT 290 UNIT NO. 8 TOWN OF ATRISCO GRANT	0.000 AC	0.000 AC	0.225 AC	0.000 AC
NMSHTD INTERSTATE 40 RIGHT OF WAY	0.000 AC	0.000 AC	0.000 AC	0.892 AC

* 20' WIDE SANITARY SEWER EASEMENT CURRENTLY EXISTS ON PROPERTY

AS BUILT INFORMATION
CONTRACTOR Rio-T Inc.
WORK STAKED BY Angel Duran DATE 6-99
ACCEPTANCE BY Alex Gallegos DATE 6-99
FIELD VERIFICATION BY Carlos Lara DATE 5-99
DRAWING CORRECTED BY L. LOPEZ DATE 11-99
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
I-40-18 NMSHC/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 NMSHC BRASS TABLET, STAMPED "STA I-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494859.08, E 384150.93)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL
DOUGLAS L. ANDREWS NEW MEXICO 15 PROFESSIONAL ENGINEER
5-26-98

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN

		DATE
DESIGNED BY	C.R.DLA	04/98
DRAWN BY	C.R.DLA	04/98
CHECKED BY	DLA	04/98

Smith Engineering Company
& Full Service Engineering Company
5200 Uptown Boulevard, N.E. Suite 200 Albuquerque, New Mexico 87110
196105D

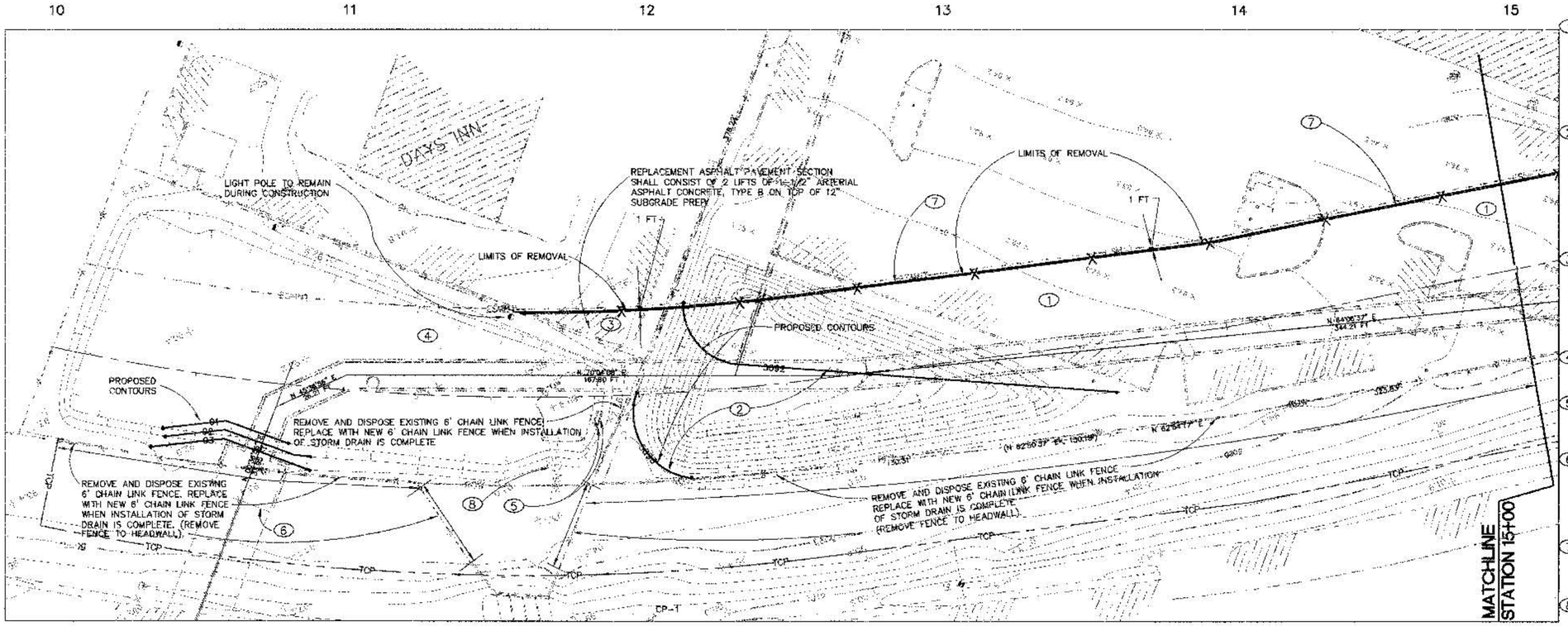
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: WEST MESA DIVERSION PROJECT PHASE I

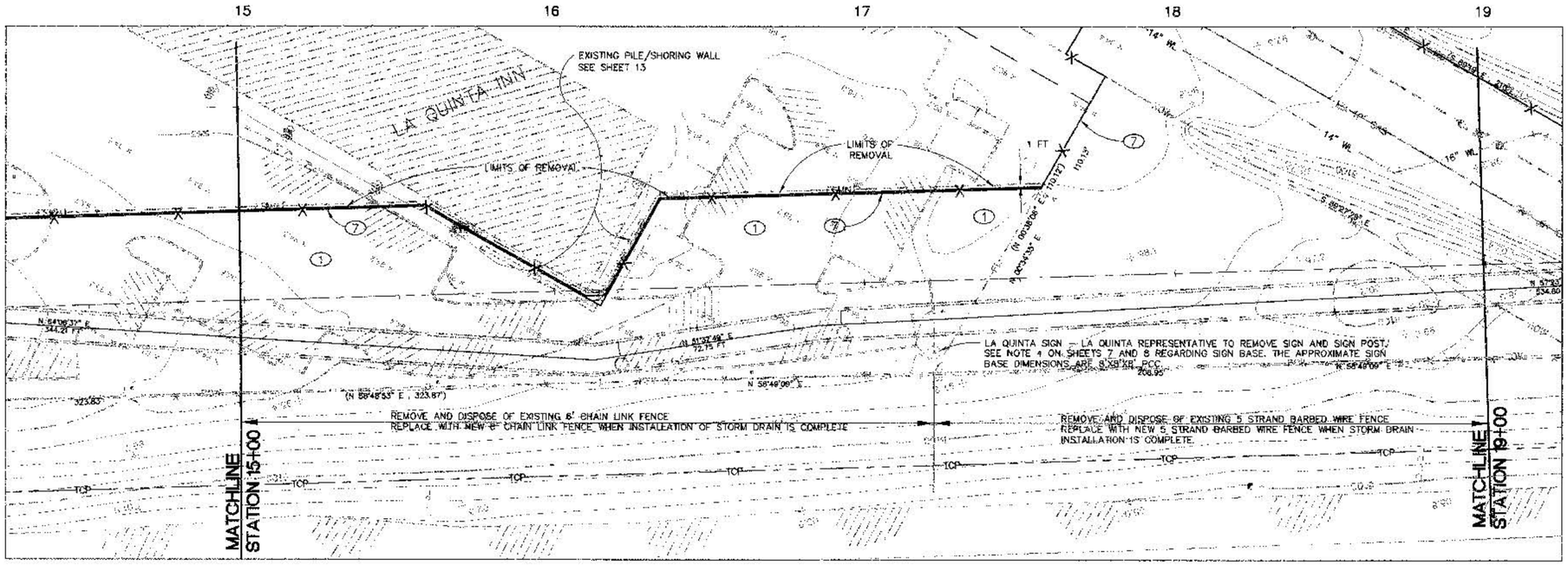
WORK AREA AND EASEMENT PLAN SHEET

Design Review Complete — MAY 26 1998
City Engineer Approval — MAY 26 1998 — CITY ENGINEER
Last Design Update — No. / Day / Yr — No. / Day / Yr

City Project No. 5381.91 | Zone Map No. H-10Z, H-11Z | Sheet 3 Of 20



DRAINAGE EASEMENT



DRAINAGE EASEMENT

KEYED NOTES:

1. REMOVE AND DISPOSE OF LA QUINTA IMPROVEMENTS TO THE LIMITS SHOWN. THE CONTRACTOR SHALL NOT RESTORE ANY OF THE LA QUINTA IMPROVEMENTS THAT ARE SHOWN TO BE REMOVED. THE CONTRACTOR SHALL BACKFILL AND COMPACT THE TRENCH AREA TO THE ELEVATIONS SHOWN. THE BACKFILL SHALL BE COMPACTED TO 90% ASTM D-1557.
2. THE CONTRACTOR SHALL FILL THE LA QUINTA POND TO THE PROPOSED ELEVATIONS SHOWN, WHEN THE STORM DRAIN INSTALLATION IS COMPLETE. THE BACKFILL SHALL BE COMPACTED TO 90% ASTM D-1557. PRIOR TO BACKFILLING OF LA QUINTA POND, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL LARGE ROCKS, BARK, LANDSCAPING, ETC. THIS REMOVAL SHALL BE PAID FOR UNDER THE LA QUINTA REMOVAL BID ITEM.
3. REMOVE AND DISPOSE OF DAYS INN IMPROVEMNTS TO THE LIMITS SHOWN. CONTRACTOR SHALL REPLACE ALL IMPROVEMENTS TO DAYS INN SITE AFTER STORM DRAIN INSTALLATION IS COMPLETE. IT IS THE CONTRACTORS RESPONSIBILITY TO BUILD THE REPLACEMENT IMPROVEMENTS TO MATCH EXISTING HORIZONTAL GEOMETRY AND ELEVATION.
4. AFTER STORM DRAIN INSTALLATION IS COMPLETE, THE CONTRACTOR SHALL REGRADE THE DAYS INN DETENTION POND TO MATCH THE ELEVATIONS SHOWN.
5. REMOVE AND DISPOSE OF EXISTING 18" CMP WEIR/ORIFICE. REMOVE AND DISPOSE 30 LF OF 18" CMP. PLUG OR CAP EXISTING END OF 18" CMP. PLUGGING OF PIPE IS INCIDENTAL TO CONSTRUCTION.
6. REMOVE AND DISPOSE OF EXISTING RAILROAD TIES. THE RAILROAD TIES CURRENTLY ACT AS A PLUG/CAP FOR THE EXISTING DOUBLE 10' X 12' CBC. THE CONTRACTOR SHALL REMOVE ALL DIRT FROM EXISTING CBC. THE REMOVAL OF DIRT FROM THE EXISTING CBC WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
7. INSTALL TEMPORARY CHAINLINK FENCE, 5' HIGH, INCLUDING POSTS AND HARDWARE. REMOVE & DISPOSE WHEN CONTRACTOR CONSTRUCTION OF PERMANENT FENCING IS COMPLETE.
8. DAYS IN SIGN – SIGN, POST & FOUNDATION TO REMAIN IN PLACE DURING CONSTRUCTION. SEE GENERAL NOTE 4 OF THIS SHEET.

GENERAL NOTES:

1. THE CONTRACTOR SHALL CUT AND CAP ALL EXISTING WATER/IRRIGATION LINES IN THE EASEMENT WORK AREA ON THE LA QUINTA AND DAYS INN PROPERTY. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH LA QUINTA AND DAYS INN (SEE NOTE 4 ON SHEETS 7 AND 8 RELATIVE TO NOTIFYING LA QUINTA OF WORK ON LA QUINTA PROPERTY). THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE REMOVAL WORK REQUIRED ON THESE TWO PROPERTIES.
2. THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL SHUT DOWNS (RELATIVE TO PARKING LOT LIGHTING AND SIGN LIGHTING) WITH LA QUINTA AND DAYS INN. (SEE NOTE 4 ON SHEETS 7&8 RELATIVE TO NOTIFYING LA QUINTA OF WORK ON LA QUINTA PROPERTY). ANY WORK CORRELATED WITH EXISTING ELECTRICAL LINES RELATIVE TO DAYS INN OR LA QUINTA PROPERTIES WILL BE CONSIDERED INCIDENTAL TO THE REMOVAL WORK REQUIRED ON THESE TWO PROPERTIES.
3. REMOVE AND SALVAGE ALL PARKING LOT LIGHT POLES ON LA QUINTA PROPERTY TO LA QUINTA.

N

20' 10' 0 20' 40'

SCALE: 1" = 20'

AS BUILT INFORMATION
CONTRACTOR R.G.T. INC.
WORK STAKED BY DATE 5-11
ASBUILTS BY DATE 5-11
INSPECTOR DATE 5-11
FIELD VERIFICATION BY DATE 5-11
DRAWINGS CORRECTED BY DATE 11-11
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
I-40-18 NMSHC/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 NMSHC BRASS TABLET, STAMPED "STA I-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494859.08, E 364150.93)

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEERS' SEAL
ANDREW L. GARCIA NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 9672
5-26-98

REVISIONS
NO. DATE REMARKS BY

DESIGN
DESIGNED BY C.R. DLA DATE 04/98
DRAWN BY C.R. DLA DATE 04/98
CHECKED BY DLA DATE 04/98

196105D
Smith Engineering Company
A Full Service Engineering Company
825 Urban Boulevard, N.E. Suite 200 Albuquerque, New Mexico 87123

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

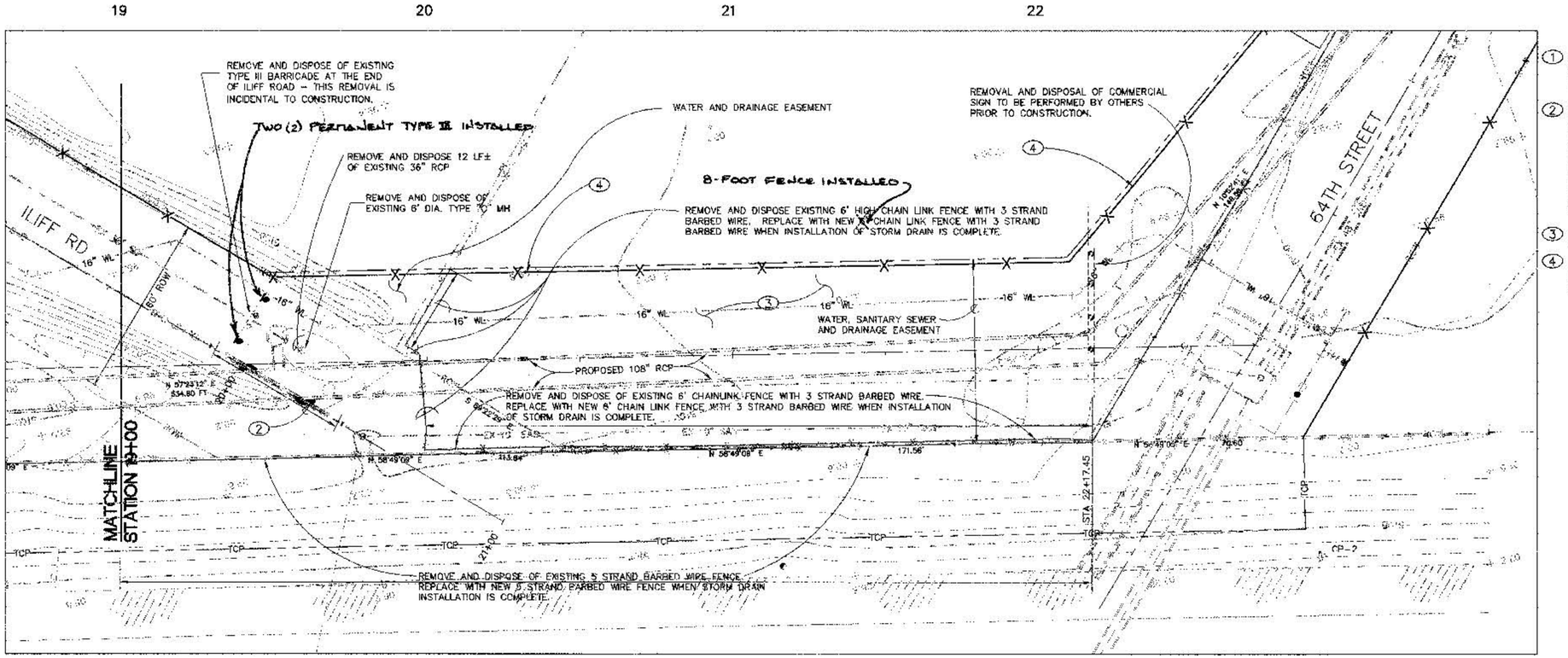
TITLE: WEST MESA DIVERSION PROJECT PHASE I

REMOVAL SHEET

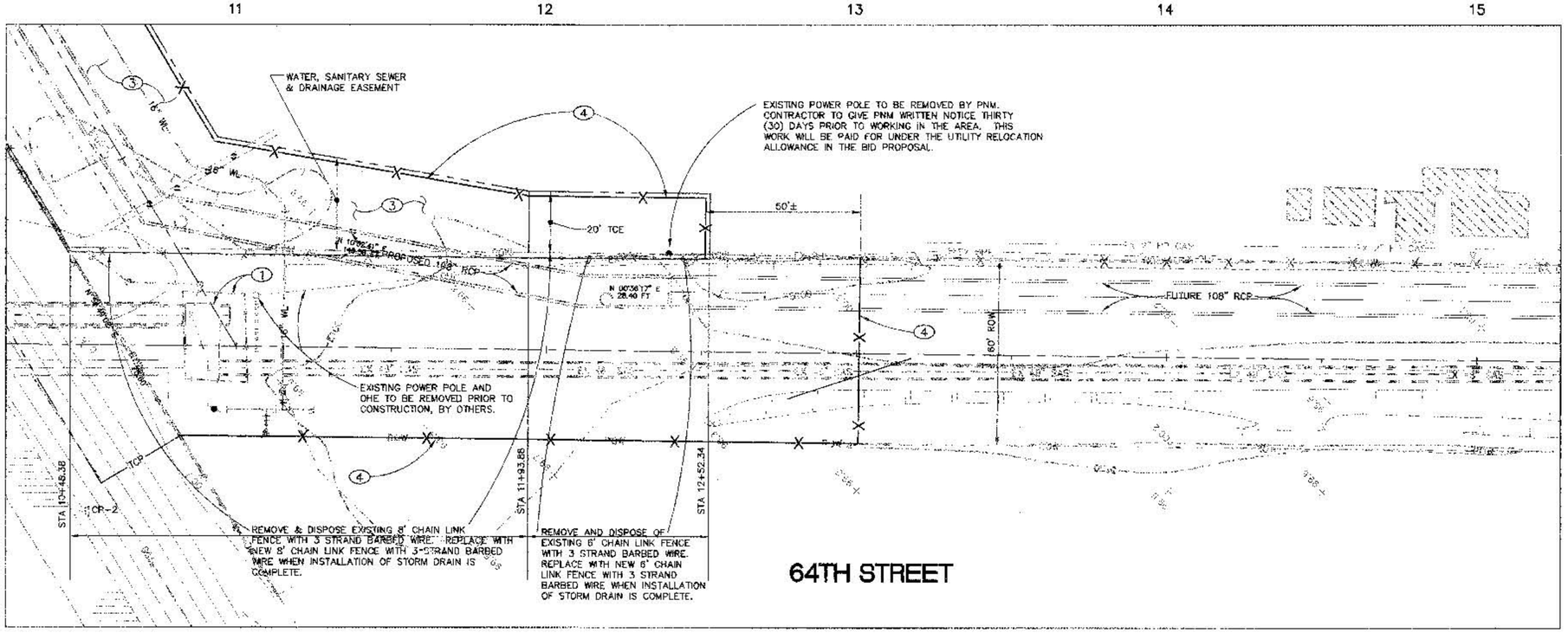
Design Review Committee | City Engineer Approval | Last Design Update | No. / Date / Dr. | No. / Date / Dr.

CITY ENGINEER

City Project No. 5381.91 | Zone Map No. H-10Z, H-11Z | Sheet 4 Of 20



DRAINAGE EASEMENT



KEYED NOTES:

1. HYDROGEN PEROXIDE STATION TO REMAIN IN SERVICE DURING CONSTRUCTION. CHAIN LINK FENCE AROUND THE HYDROGEN PEROXIDE STATION SHALL REMAIN IN PLACE AT ALL TIMES DURING CONSTRUCTION.
2. CONTRACTOR TO REMOVE AND DISPOSE OF 50 LF OF EXISTING 10" SAS PIPE. (SEE SHEET 9 FOR INSTALLATION OF NEW 10" SAS PIPE ALONG WITH 18" STEEL CASING PIPE THROUGH THE 108" RCP). DURING THIS WORK, THE CONTRACTOR SHALL PUMP THE EXISTING SEWAGE FROM THE FIRST UPSTREAM MH TO THE FIRST DOWN-STREAM MH ALONG THIS SAS LINE. THE CONTRACTOR WILL BE PAID BY THE HOUR FOR THE HANDLING OF THIS SEWAGE. HOWEVER, THE CONTRACTOR WILL NOT BE PAID FOR MORE THAN 72 HOURS FOR HANDLING THE SEWAGE.
3. EXISTING MOBILE HOMES TO BE REMOVED FROM WORK AREA PRIOR TO CONSTRUCTION, BY OTHERS.
4. INSTALL TEMPORARY CHAINLINK FENCE, 5' HIGH, INCLUDING POSTS AND HARDWARE. REMOVE & DISPOSE WHEN CONSTRUCTION OF PERMANENT FENCING IS COMPLETE.

N

20' 10' 0 20' 40'
SCALE: 1" = 20'

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A Full Service Engineering Company

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: WEST MESA DIVERSION PROJECT PHASE I

REMOVAL SHEET

Design Review Committee | City Engineer Approval | Last Design Update | No. / Date / By | No. / Date / By

City Project No. 5381.91 | Zone Map No. H-10Z, H-11Z | Sheet 5 Of 20

AS BUILT INFORMATION
CONTRACTOR R-N-S, I.NC. STARTED 5-11
SURVEY DATE 5-11
REDLINE BY DATE 5-11
FIELD VERIFICATION BY CON/ENG DATE 5-11
DRAWINGS CORRECTED BY L. LOPEZ DATE 11-11
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

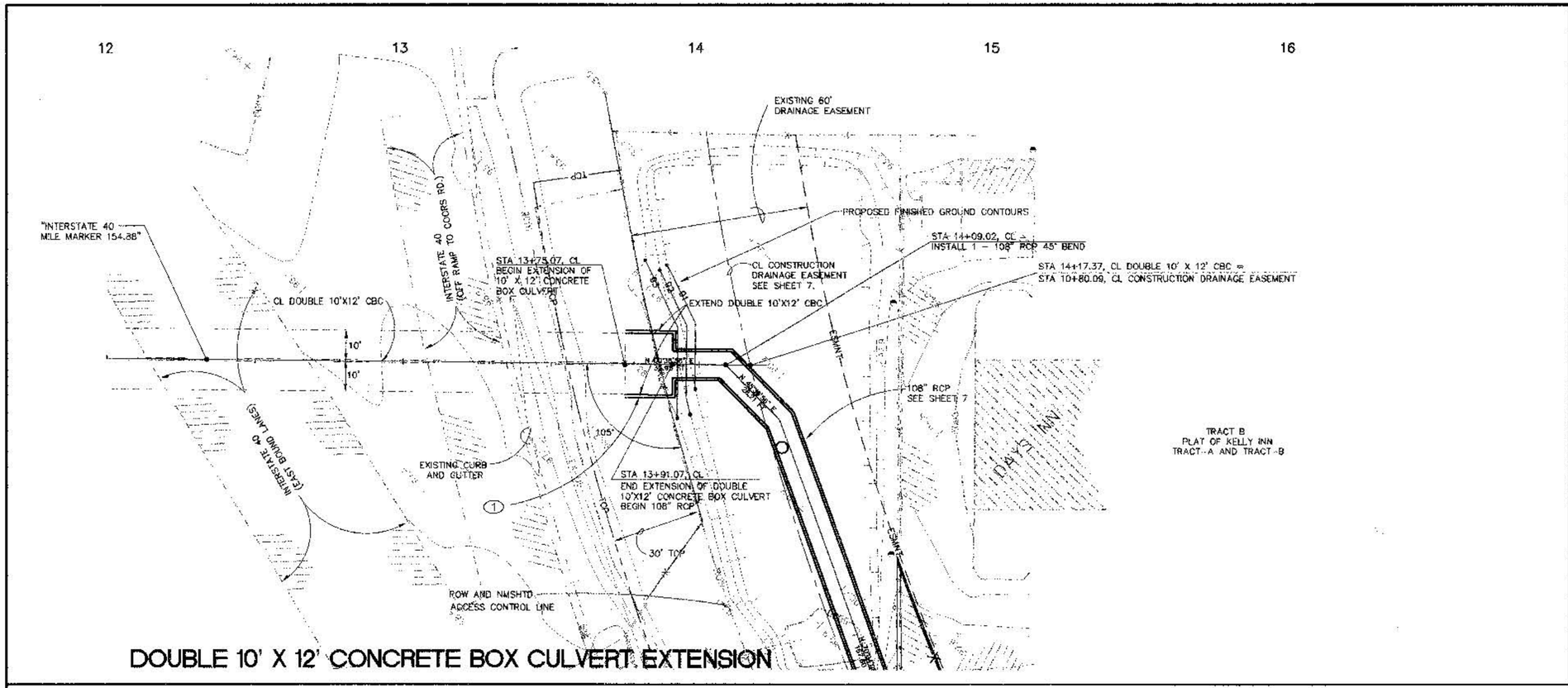
BENCH MARKS
I-40-18 NMSHC/ACS ELEV. 5103.98 FEET (SLD 1929)
STATION IS LOCATED 3.5 MILES NW OF DOWNTOWN ALBUQUERQUE, AT THE HIGHWAY I-40 AND STATE ROAD 448 (COORS RD., NW) INTERCHANGE. STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA I-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND.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

SURVEY INFORMATION
FIELD NOTES
NO. | DATE | BY

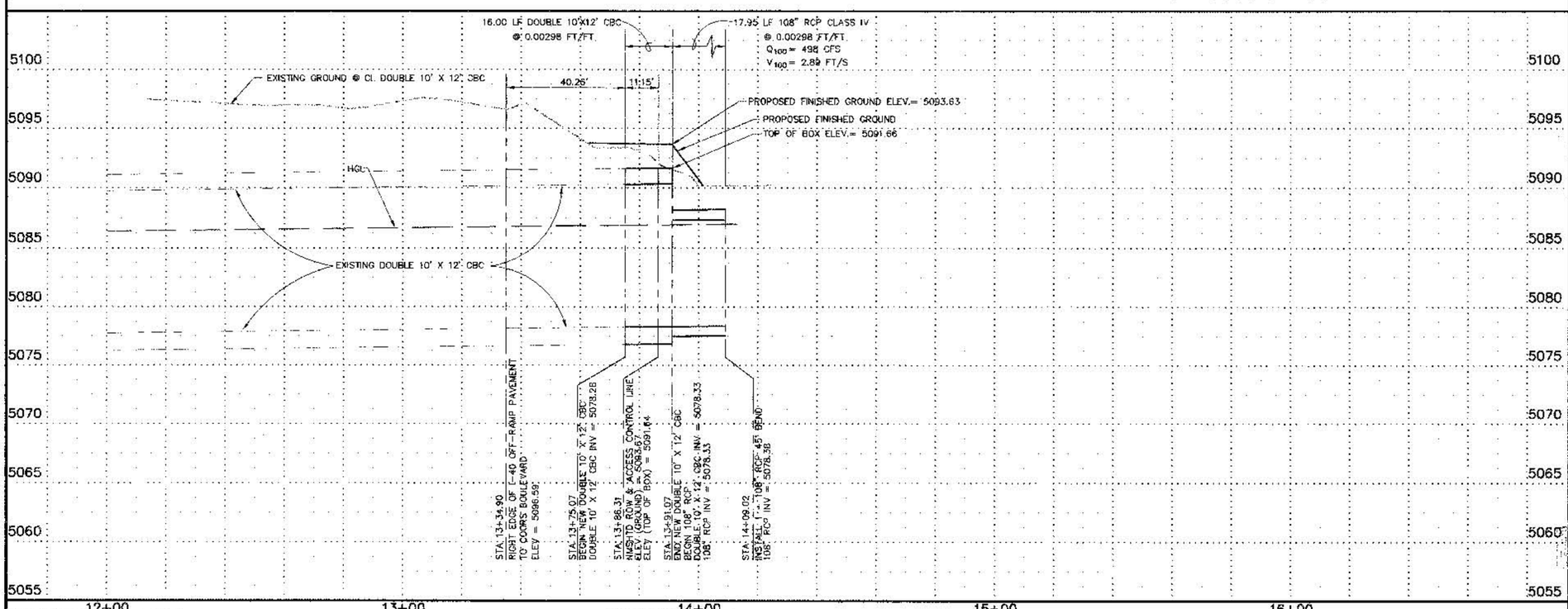
ENGINEERS' SEAL
DOUGLAS L. ANDREWS
NEW MEXICO
6171
5-26-98

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY C.R.D.L.A. DATE 04/98
DRAWN BY C.R.D.L.A. DATE 04/98
CHECKED BY D.L.A. DATE 04/98



DOUBLE 10' X 12' CONCRETE BOX CULVERT EXTENSION



KEYED NOTES:

1. SEE SHEETS 11 AND 12 FOR CONCRETE BOX CULVERT EXTENSION DETAILS.

GENERAL NOTES:

1. THE CONTRACTOR SHALL ABIDE BY SECTION 12.0 THRU 12.5 OF THE NMSH&TD UTILITIES MANUAL UNDER GENERAL UTILITY CONSTRUCTION REQUIREMENTS.
2. THE UTILITY OWNER SHALL ABIDE BY SECTION 18.0 THRU 18.6 OF THE NMSH&TD UTILITIES MANUAL UNDER SAFETY MARKERS FOR ABOVE GROUND APPURTENANCES.

Horizontal Scale: 1"=20'

Vertical Scale: 1" = 5'

Smith Engineering Company
& FGR Service Engineering Company
196105D

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: WEST MESA DIVERSION PROJECT PHASE I

STORM DRAIN P&P: DOUBLE 10' X 12' CBC EXTENSION: STA 12+00 TO 16+00

Design Review Committee | City Engineer Approval | Last Design Update

City Project No. 5381.91 | Zone Map No. H-10Z, H-11Z | Sheet 6 Of 20

AS BUILT INFORMATION
CONTRACTOR Rhcl, Inc.
WORK STAKED BY Rhcl, Inc. DATE 5-98
INSPECTOR ACCEPTANCE BY Bill Smith DATE 5-98
FIELD VERIFICATION BY Carlos Lopez DATE 5-98
DRAWINGS CORRECTED BY L. Lopez DATE 11-98
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

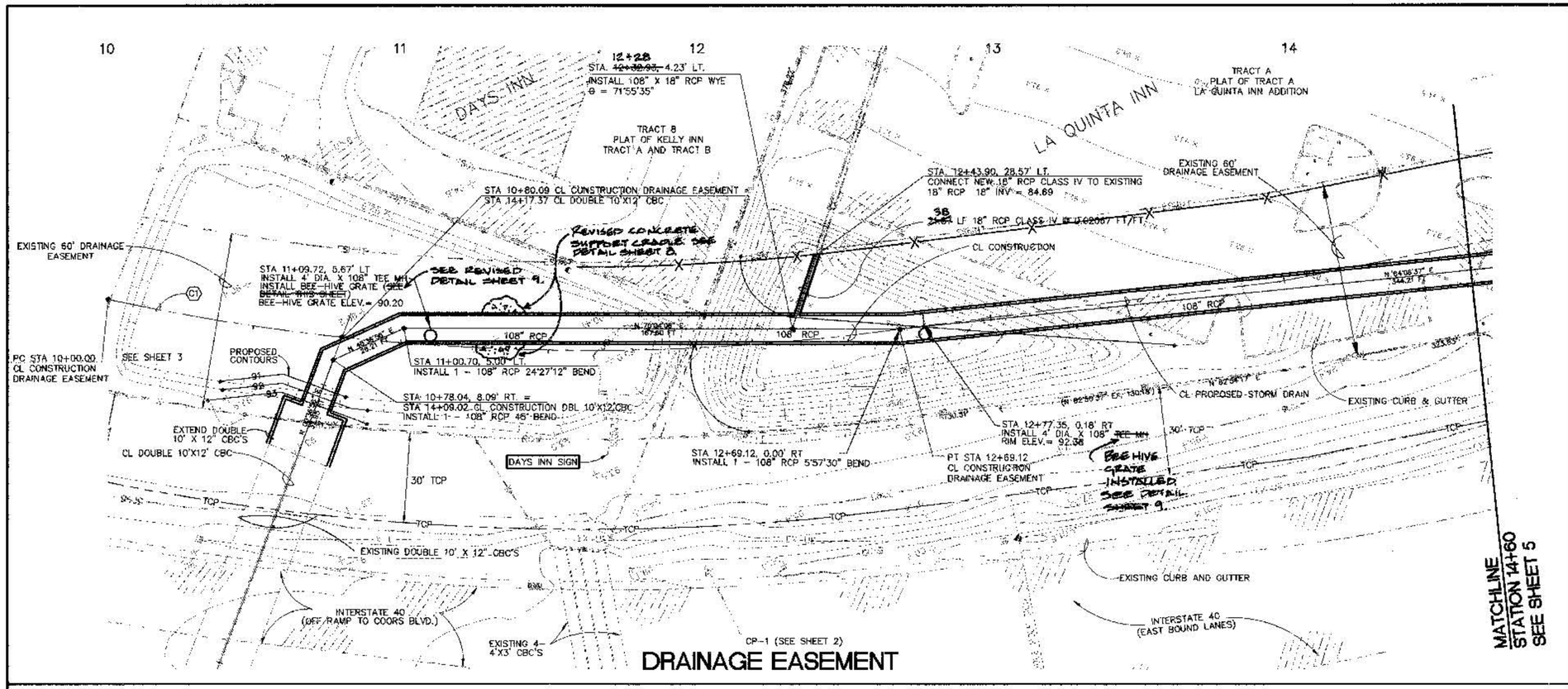
BENCH MARKS
I-40-18 NMSHC/ACS ELEV. 5103.98 FEET (SLD 1929)
STATION IS LOCATED 3.5 MILES NW OF DOWNTOWN ALBUQUERQUE, AT THE HIGHWAY I-40 AND STATE ROAD 448 (COORS RD., NW) INTERCHANGE. STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA I-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494359.08, E 384150.93)

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

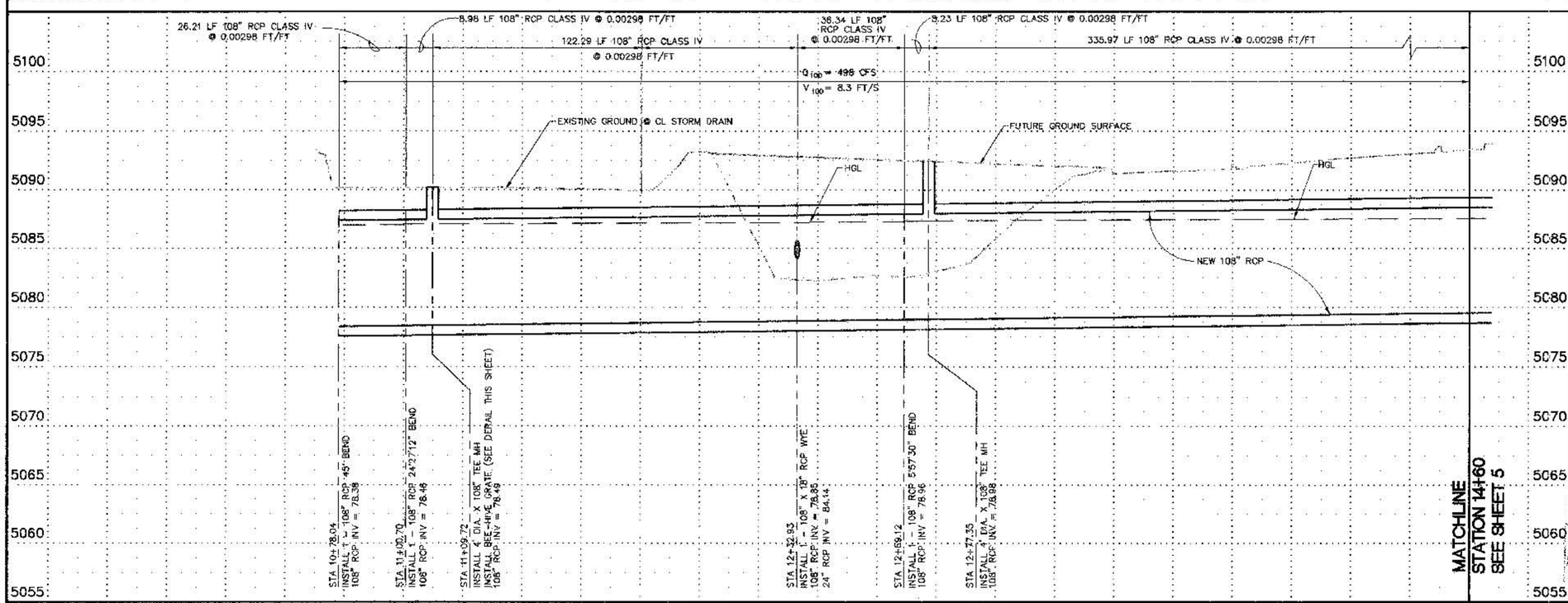
ENGINEERS SEAL
NEW MEXICO LICENSED PROFESSIONAL ENGINEER
5-28-98

REVISIONS
NO. | DATE | REMARKS | BY

DESIGN
DESIGNED BY CJR/DLA DATE 04/98
DRAWN BY CJR/DLA DATE 04/98
CHECKED BY DLA DATE 04/98



DRAINAGE EASEMENT

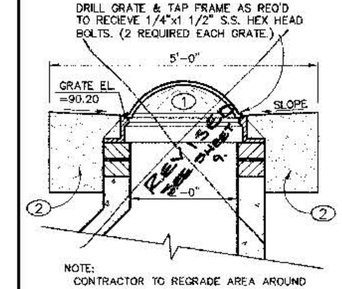


GENERAL NOTES RELATIVE TO LA QUINTA SITE

1. AT ALL TIMES DURING CONSTRUCTION, AT LEAST ONE-THIRD OF THE EASEMENT PROPERTY ON THE LA QUINTA SITE SHALL BE MAINTAINED BY THE CONTRACTOR SO IT CAN BE USED BY LA QUINTA.
2. THE CONTRACTOR SHALL HAVE NO MORE THAN 200 FEET OF OPEN TRENCH ON THE LA QUINTA EASEMENT PROPERTY AT ANY ONE TIME.
3. AT NO TIME SHALL LA QUINTA'S CERFIFICATE OF OCCUPANCY BE SUSPENDED DUE TO THE CONSTRUCTION OF THE DRAINAGE IMPROVEMENTS.
4. THE CONTRACTOR SHALL GIVE LA QUINTA AT LEAST THIRTY (30) DAYS PRIOR WRITTEN NOTICE PRIOR TO COMMENCING CONSTRUCTION OF THE DRAINAGE IMPROVEMENTS. THE CONTRACTOR SHALL COORDINATE THE TRENCHING OF THE EASEMENT PROPERTY IN THE VICINITY OF THE LA QUINTA SIGN TO AFFORD LA QUINTA WITH THE OPPORTUNITY TO PROVIDE SHORING (IF POSSIBLE) TO PROTECT THE SIGN FOUNDATION, IF POSSIBLE, IT MAY BE DETERMINED (IN THE FIELD) THAT THE SIGN FOUNDATATION CAN NOT BE "SAVED", IF THE SIGN FOUNDATION CAN NOT BE SAVED, IT SHALL BE REMOVED.

KEYED NOTES:

1. PROVIDE NEENAH "HIGH BEEHIVE GRATE & FRAME", R-2561, OR APPROVED EQUAL IN LIEU OF STANDARD CITY OF ALBUQUERQUE MANHOLE FRAME & COVER. SEE DETAIL BELOW.
2. INSTALL A 5'x5' CONCRETE PAD.



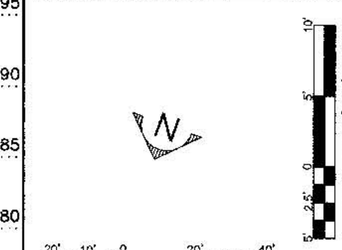
NOTE:
CONTRACTOR TO REGRADE AREA AROUND BEEHIVE GRATES AS REQUIRED TO DIRECT DRAINAGE TOWARDS INLET.

BEEHIVE GRATE DETAIL

NOT TO SCALE REVISED. SEE SHEET 9

CURVE DATA

NUMBER	DELTA	RADIUS	TANGENT	ARC LENGTH
C1	20°16'36"	760.44	135.98	269.12



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6400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110
1961050

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: WEST MESA DIVERSION PROJECT PHASE I

STORM DRAIN P & P: DRAINAGE EASEMENT: STA 10+00 TO 14+60

Design Review Committee | City Engineer Approval | Last Design Update | Rev. / Date / Yr. | Rev. / Date / Yr.

City Project No. 538191 | Zone Map No. H-10Z, H-11Z | Sheet 7 of 20

AS BUILT INFORMATION
CONTRACTOR R.G.T. Inc. DATE 5-11
WORK STAKED BY Kricer DATE 5-11
WORK INSPECTED BY A. Sanchez DATE 5-11
ACCEPTANCE BY C.A. Armijo DATE 5-11
FIELD LOCATION BY C.A. Armijo DATE 5-11
DRAWINGS CORRECTED BY L. Lopez DATE 5-11
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

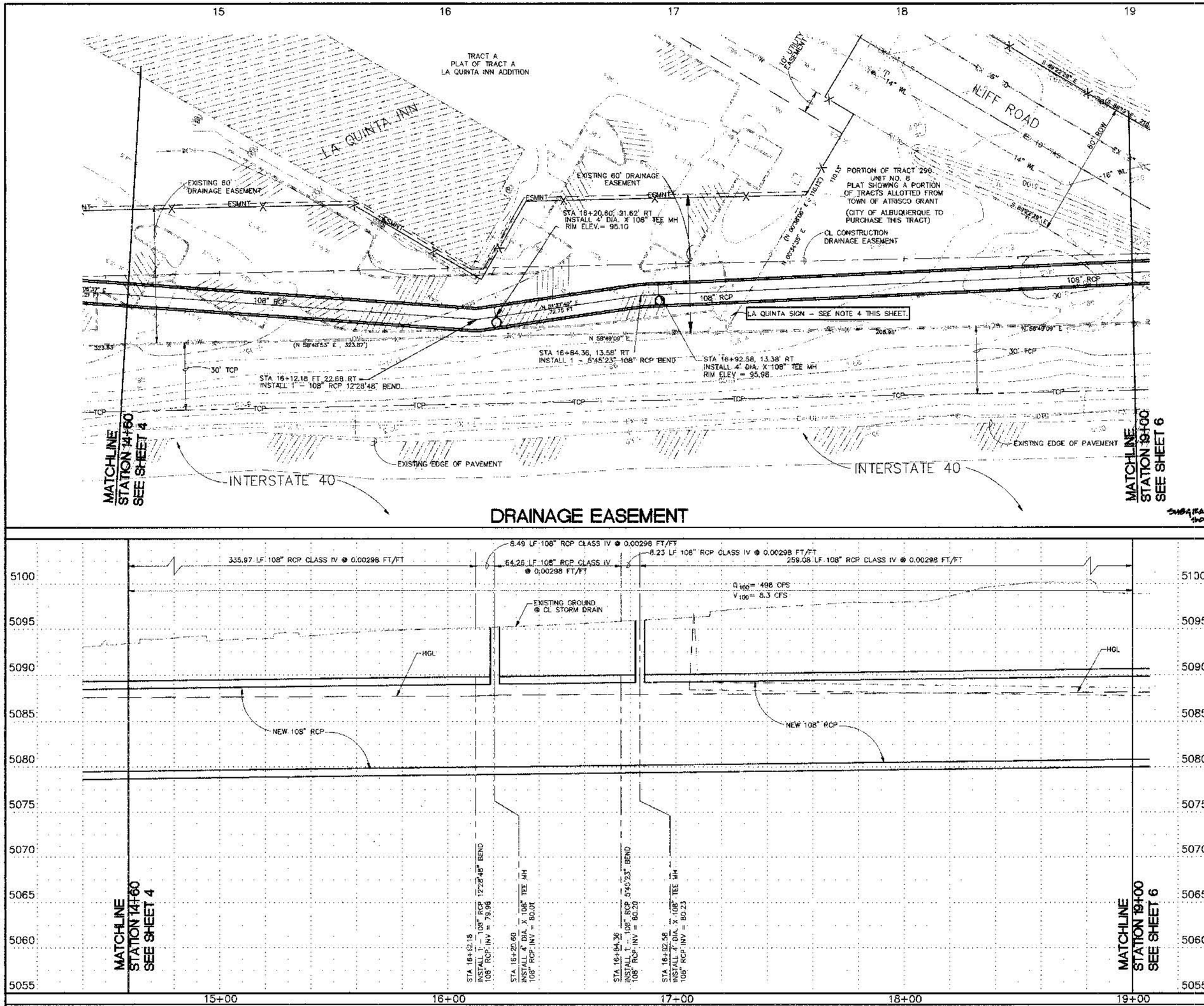
BENCH MARKS
I-40-18 NMSHC/ACS ELEV. 5103.98 FEET (SLD 1929)
STATION IS LOCATED 3.5 MILES NW OF DOWNTOWN ALBUQUERQUE, AT THE HIGHWAY I-40 AND STATE ROAD 448 (COORS RD., NW) INTERCHANGE. STATION MARK IS A STANDARD NNSHC BRASS TABLET, STAMPED "STA I-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND.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

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEERS SEAL
DOUGLAS L. MORRIS NEW MEXICO 5-26-98

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN
DESIGNED BY C.R.D.L.A. DATE 04/98
DRAWN BY C.R.D.L.A. DATE 04/98
CHECKED BY D.L.A. DATE 04/98



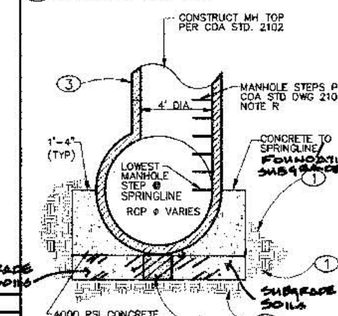
DRAINAGE EASEMENT

GENERAL NOTES RELATIVE TO LA QUINTA SITE

1. AT ALL TIMES DURING CONSTRUCTION, AT LEAST ONE-THIRD OF THE EASEMENT PROPERTY ON THE LA QUINTA SITE SHALL BE MAINTAINED BY THE CONTRACTOR SO IT CAN BE USED BY LA QUINTA.
2. THE CONTRACTOR SHALL HAVE NO MORE THAN 200 FEET OF OPEN TRENCH ON THE LA QUINTA EASEMENT PROPERTY AT ANY ONE TIME.
3. AT NO TIME SHALL LA QUINTA'S CERRIFICATE OF OCCUPANCY BE SUSPENDED DUE TO THE CONSTRUCTION OF THE DRAINAGE IMPROVEMENTS.
4. THE CONTRACTOR SHALL GIVE LA QUINTA AT LEAST THIRTY (30) DAYS PRIOR WRITTEN NOTICE PRIOR TO COMMENCING CONSTRUCTION OF THE DRAINAGE IMPROVEMENTS. THE CONTRACTOR SHALL COORDINATE THE TRENCHING OF THE EASEMENT PROPERTY IN THE VICINITY OF THE LA QUINTA SIGN TO AFFORD LA QUINTA WITH THE OPPORTUNITY TO PROVIDE SHORING (IF POSSIBLE) TO PROTECT THE SIGN FOUNDATION, IF POSSIBLE. IT MAY BE DETERMINED (IN THE FIELD) THAT THE SIGN FOUNDATION CAN NOT BE "SAVED". IF THE SIGN FOUNDATION CAN NOT BE SAVED, IT SHALL BE REMOVED.

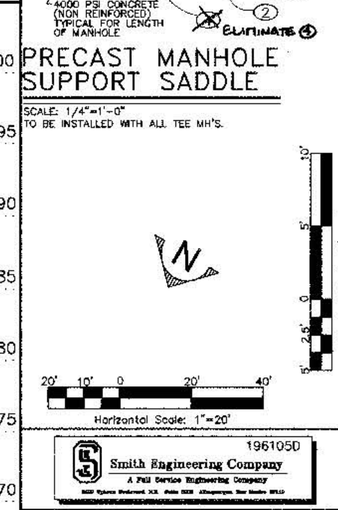
KEYED NOTES:

1. BACKFILL COMPACTED PER COA STD SPECIFICATIONS.
2. 24" SUBGRADE COMPACTED TO 95% ASTM D-1557. COMPACT IN LIFTS NOT EXCEEDING 8" LOOSE.
3. 4' DIA. MANHOLE RISERS AS REQUIRED.
4. 8" X 8" X 16" SOLID CMU.



PRECAST MANHOLE SUPPORT SADDLE

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



Smith Engineering Company
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196105D

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK STAKED BY: RMCI DATE 5-98
ACCEPTANCE BY: B.G. SUBMITTAL DATE 5-98
FIELD VERIFICATION BY: CON/ENG DATE 5-98
DRAWINGS CORRECTED BY: L. LOPEZ DATE 11-98
MICRO-FILM INFORMATION
RECORDED BY: DATE:
NO.

BENCH MARKS
I-40-18 (NMSHC/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 NMSHC BRASS TABLET, STAMPED "STA I-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494559.08, E 364150.93)

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEERS SEAL
NEW MEXICO LICENSED PROFESSIONAL ENGINEER
5-26-98

REVISIONS
NO. DATE BY REMARKS

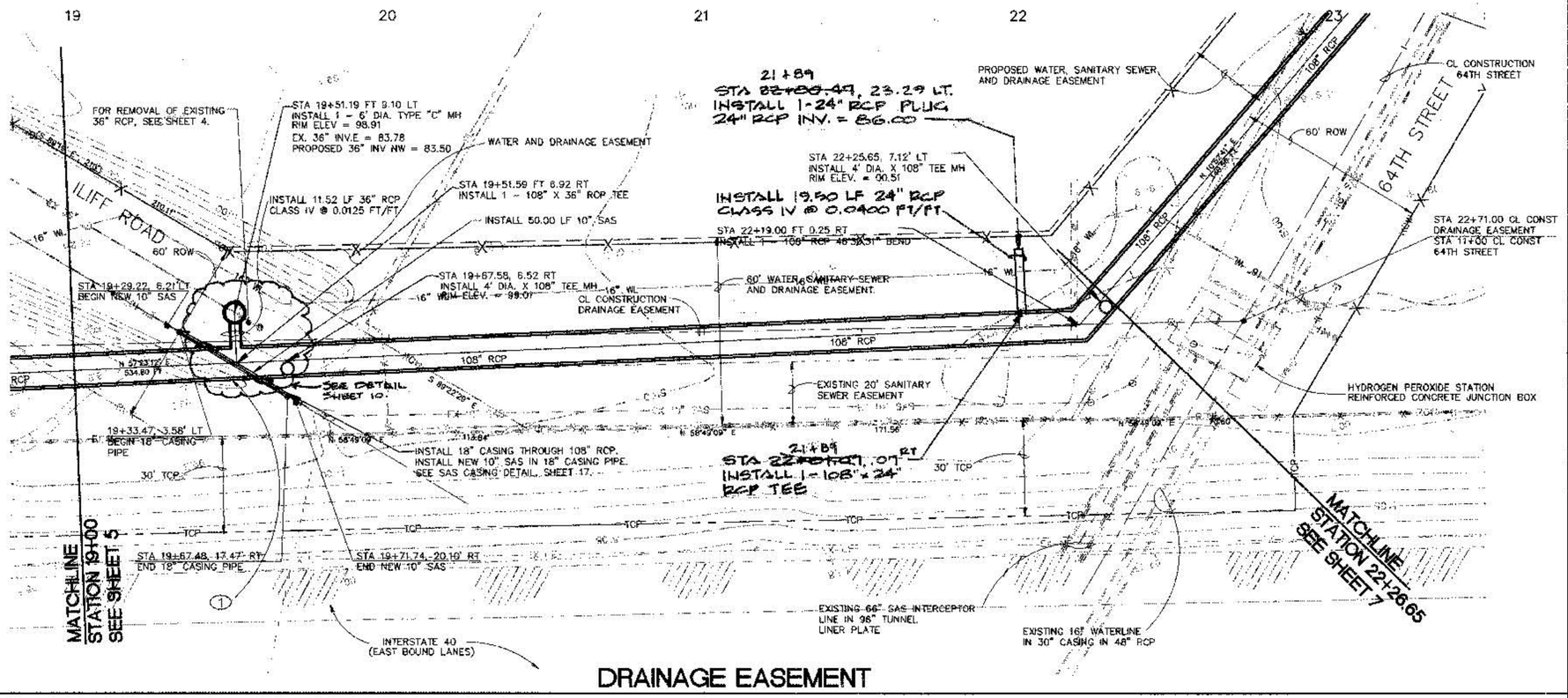
DESIGN
DESIGNED BY C.R.DILA DATE 04/98
DRAWN BY C.R.DILA DATE 04/98
CHECKED BY D.L.A DATE 04/98

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

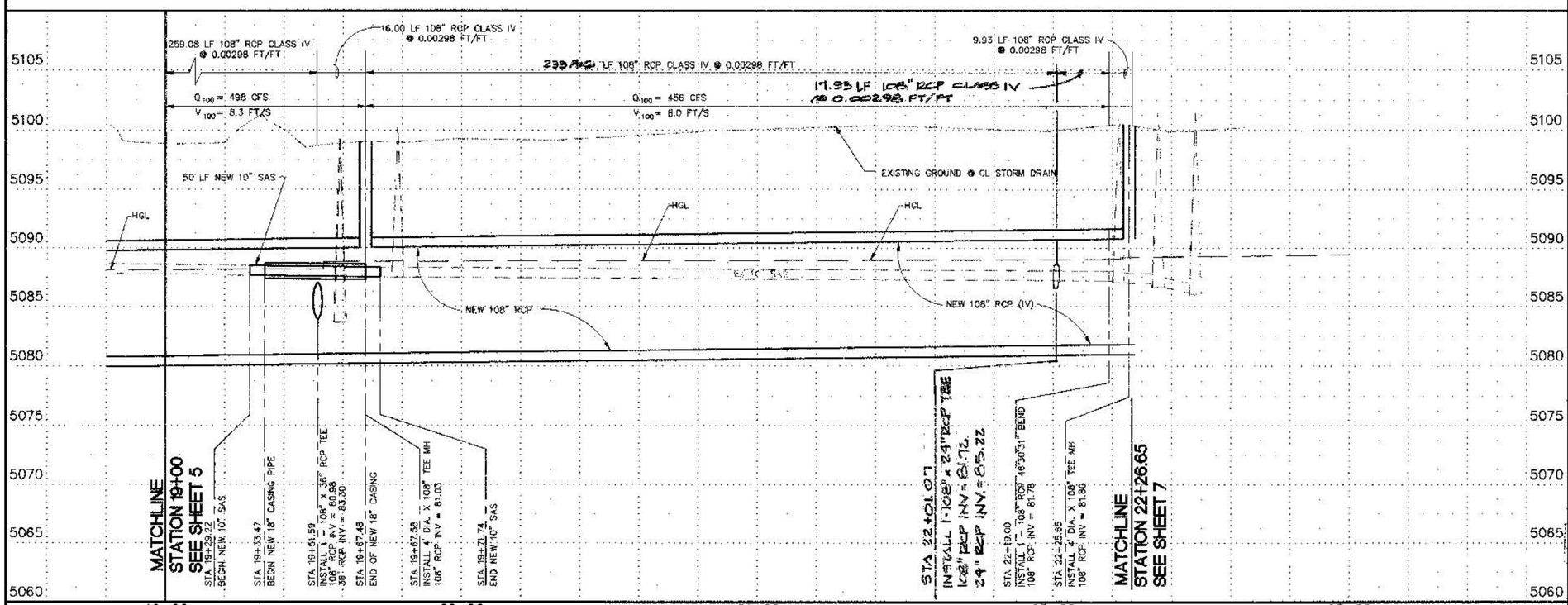
TITLE: WEST MESA DIVERSION PROJECT PHASE I
STORM DRAIN P & P: DRAINAGE EASEMENT: STA 14+60 TO 19+00

Design Review Committee | City Engineer Approval | Last Design Update

City Project No. 538191 | Zone Map No. H-10Z, H-11Z | Sheet 8 Of 20

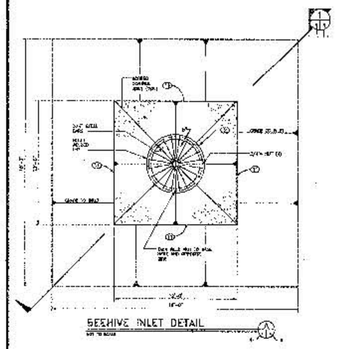


DRAINAGE EASEMENT

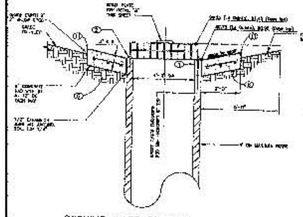


KEYED NOTES:

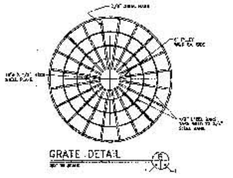
1. NO TRENCHING AND BACKFILLING WILL BE PAID FOR IN SANITARY SEWER CONSTRUCTION. ALL TRENCHING AND BACKFILLING FOR SAS WILL BE CONSIDERED INCIDENTAL TO STORM DRAIN CONSTRUCTION.



BEEHIVE INLET DETAIL



BEEHIVE INLET SECTION



GRATE DETAIL

Vertical Scale: 1" = 5'

Horizontal Scale: 1"=20'

AS BUILT INFORMATION		
CONTRACTOR	R.T.C. INC.	DATE 5-98
WORK STAKED BY	R.O. MARSHALL	DATE 5-98
ACCEPTANCE BY	R. LENTHE	DATE 5-98
FIELD VERIFICATION BY	C. CONLEY	DATE 5-98
DRAWINGS CORRECTED BY	L. LOPEZ	DATE 11-98
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

BENCH MARKS

I-40-18 NGS/HC/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 NGS/HC BRASS TABLET, STAMPED "STA I-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494359.08, E 364150.93)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

L. ANDREWS, JR. NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 7977
5-26-98

REVISIONS		
NO.	BY	REMARKS

DESIGN		
DESIGNED BY	C.R.D.L.A	DATE 04/98
DRAWN BY	C.R.D.L.A	DATE 04/98
CHECKED BY	D.L.A.	DATE 04/98

Smith Engineering Company
A Full Service Engineering Company
1961050

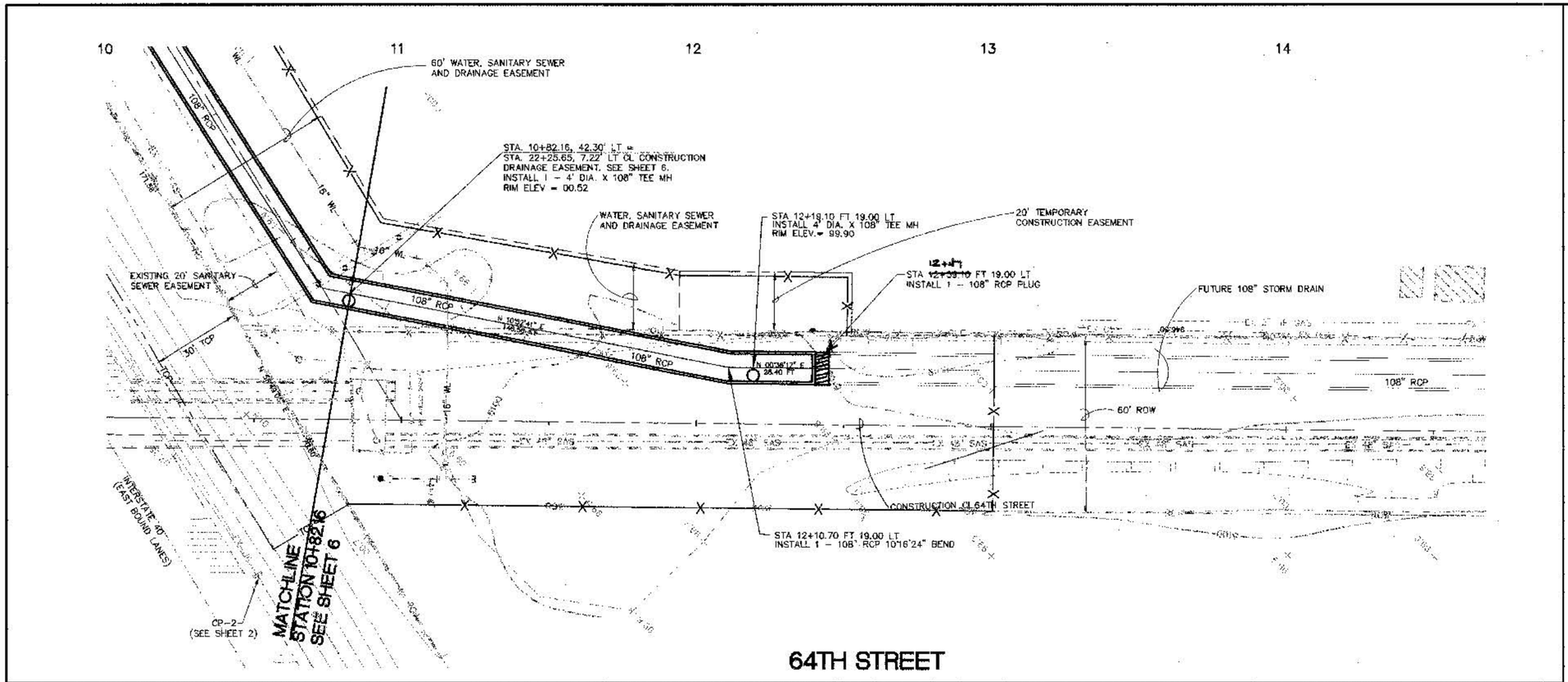
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

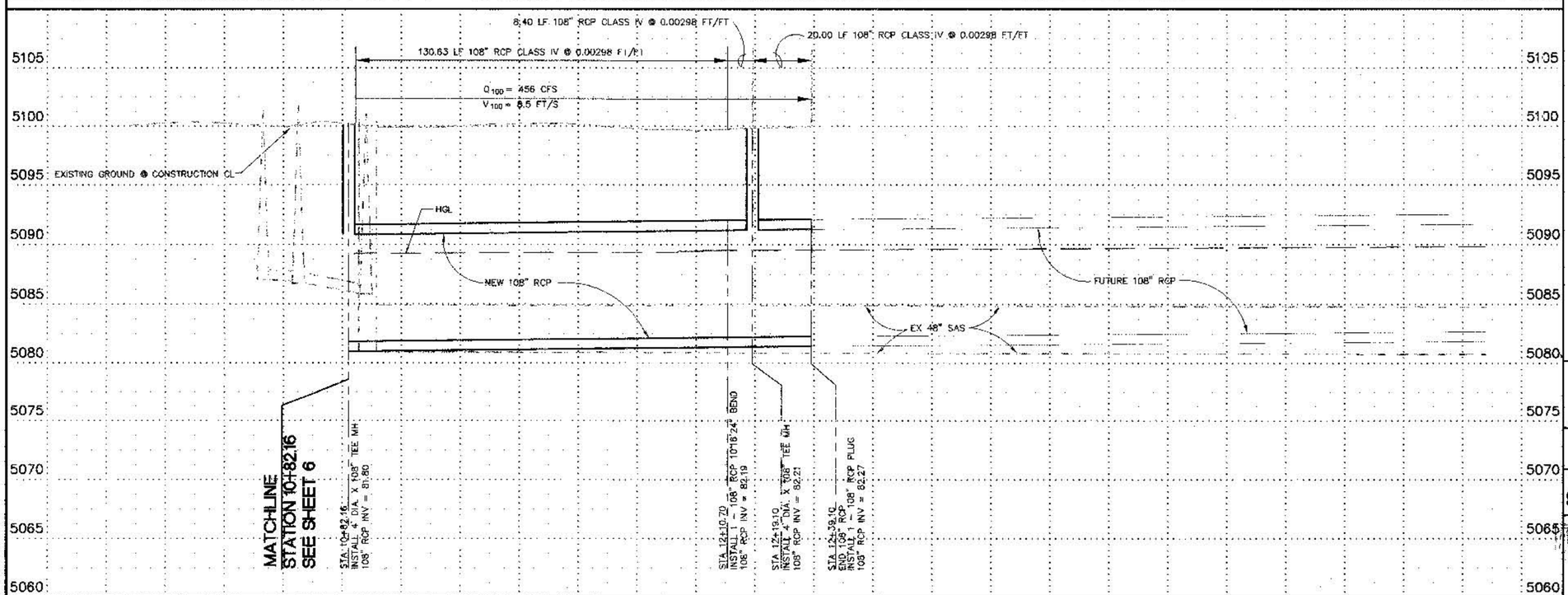
TITLE: WEST MESA DIVERSION PROJECT PHASE I

STORM DRAIN P & P: DRAINAGE EASEMENT: STA 19+00 TO 22+26.65

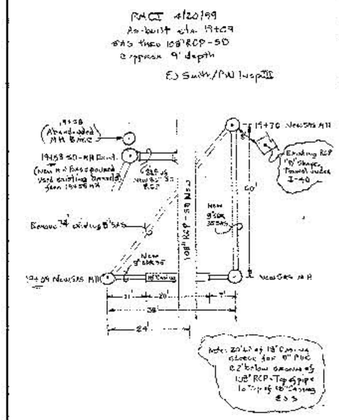
Design Review Concurrence — Engineer Approval — CITY ENGINEER — Last Design Update

City Project No.	Zone Map No.	Sheet	Of
538191	H-10Z, H-11Z	9	20





KEYED NOTES:



AS BUILT INFORMATION	
CONTRACTOR	R.M.C., INC.
WORK STAKED BY	FIELD ENGINEERING DATE 5-99
WORK INSPECTED BY	ARCO INSPECTOR DATE 5-99
ACCEPTANCE BY	BOARD OF CITY DATE 5-99
FIELD VERIFICATION BY	CONTROL DATE 5-99
DRAWINGS CORRECTED BY	L. LOPEZ DATE 11-99
RECORDED BY	MICRO-FILM INFORMATION
NO.	DATE

BENCH MARKS

1-40-18 NMSHC/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 NMSHC BRASS TABLET, STAMPED "STA 1-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494959.08, E 364150.93)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

DOUGLAS L. ANDREWS — NEW MEXICO — 8571 — PROFESSIONAL ENGINEER

5-26-98

NO.	DATE	REMARKS / REVISIONS	BY

DESIGN		
DESIGNED BY	C.R.D.L.A.	DATE 04/98
DRAWN BY	C.R.D.L.A.	DATE 04/98
CHECKED BY	D.L.A.	DATE 04/98

N

Vertical Scale: 1" = 5'

Horizontal Scale: 1"=20'

196105D

Smith Engineering Company
A Full Service Engineering Company

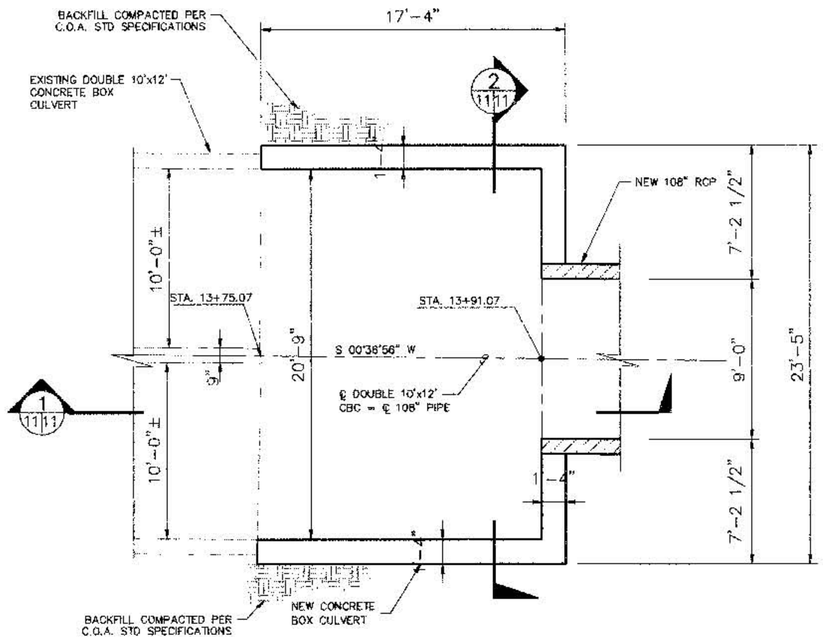
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: WEST MESA DIVERSION PROJECT PHASE I

STORM DRAIN P & P: 64TH STREET: STA 10+00 TO 12+22.34

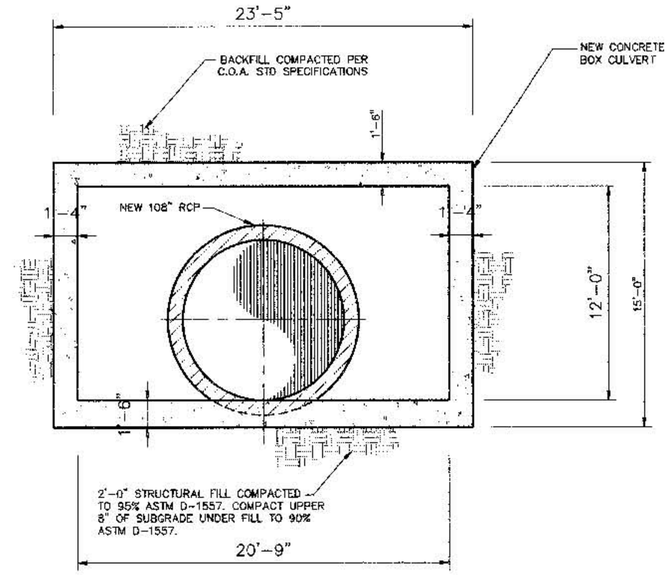
Design Review Committee | City Engineer Approval | Last Design Update | No. / Date / By | No. / Date / By

City Project No. 538191 | Zone Map No. H-10Z, H-11Z | Sheet 10 of 20



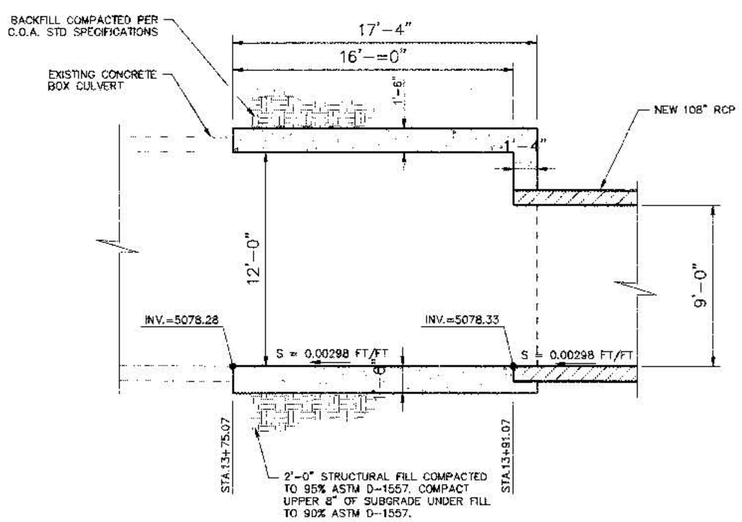
PLAN SECTION AT ℄ PIPE

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



CROSS SECTION (2/1111)

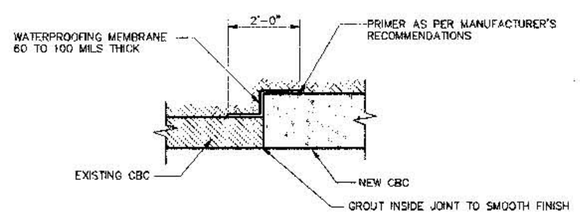
SCALE: 1/4" = 1'-0"



LONGITUDINAL SECTION (1/1111)

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

NOTE: WATERPROOFING MEMBRANE SHALL BE USED TO WATERPROOF THE JOINTS BETWEEN THE EXISTING CBC AND THE NEW EXTENSION, ALL CONSTRUCTION JOINTS USED TO BUILD THE EXTENSION, AND THE JOINT BETWEEN THE 108" RCP AND THE NEW CBC EXTENSION. SEE DETAIL "A" BELOW.



ACCEPTABLE WATERPROOFING MEMBRANES:
MEL-ROL SHEET AS MANUFACTURED BY W.R. MEADOWS, INC.
CONWRAP BARRIER CS-212 AS MANUFACTURED BY CONCRETE SEALANT,

WATERPROOFING DETAIL

N.T.S.

DESIGN CRITERIA

SOIL LOADS:
- WEIGHT = 120 PCF
- LATERAL ACTIVE PRESSURE = 36 PCF
- LATERAL AT-REST PRESSURE = 50 PCF

LIVE LOAD: HS-20
DESIGN SOIL HEIGHT OVER TOP OF BOX = 8'-0"
CONCRETE 28-DAY COMPRESSIVE STRENGTH = 4000 PSI
STEEL YIELD STRENGTH = 36000 PSI

AS BUILT INFORMATION
CONTRACTOR RICI, INC.
WORK STAKED BY RICI DATE 5-99
STAKES CHECKED BY [illegible] DATE 5-99
ACCEPTANCE BY [illegible] DATE 5-99
FIELD VERIFICATION BY L. LOPEZ DATE 1-99
DRAWINGS CORRECTED BY L. LOPEZ DATE 1-99
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
I-40-18 NMSHC/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 44B (COORS RD., NW) INTERCHANGE. STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA I-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494859.08, E 364150.93)

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEERS SEAL
NEW MEXICO LICENSED PROFESSIONAL ENGINEER DOUGLAS L. MEADOWS 10141
5-26-98

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN

		DATE
DESIGNED BY	C.R.D.L.A.	03/98
DRAWN BY	C.R.D.L.A.	03/98
CHECKED BY	D.L.A.	03/98

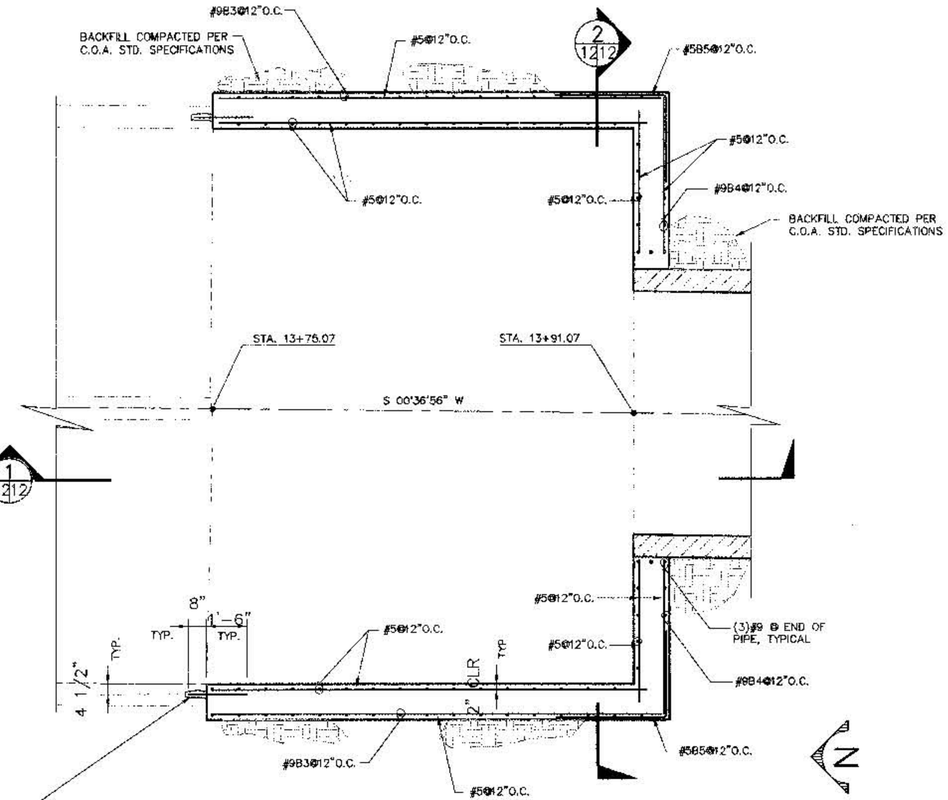
1961050
Smith Engineering Company
A Full Service Engineering Company
5440 Syracuse Boulevard, N.E. Suite 0000 Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: WEST MESA DIVERSION PROJECT PHASE I
DOUBLE 10'X12' CONCRETE BOX CULVERT EXTENSION PLAN AND DETAILS

Design Review Committee | City Engineer Approval | Last Design Update | No. / Day / Yr. | No. / Day / Yr.
CITY ENGINEER

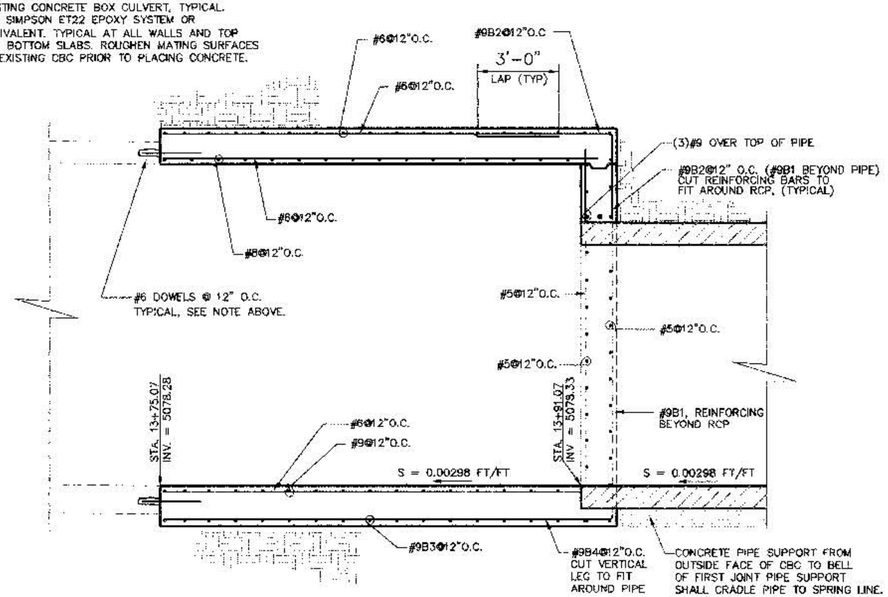
City Project No. 5381.91 | Zone Map No. H-10Z, H-11Z | Sheet 11 Of 20



PLAN SECTION AT ℄ PIPE

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

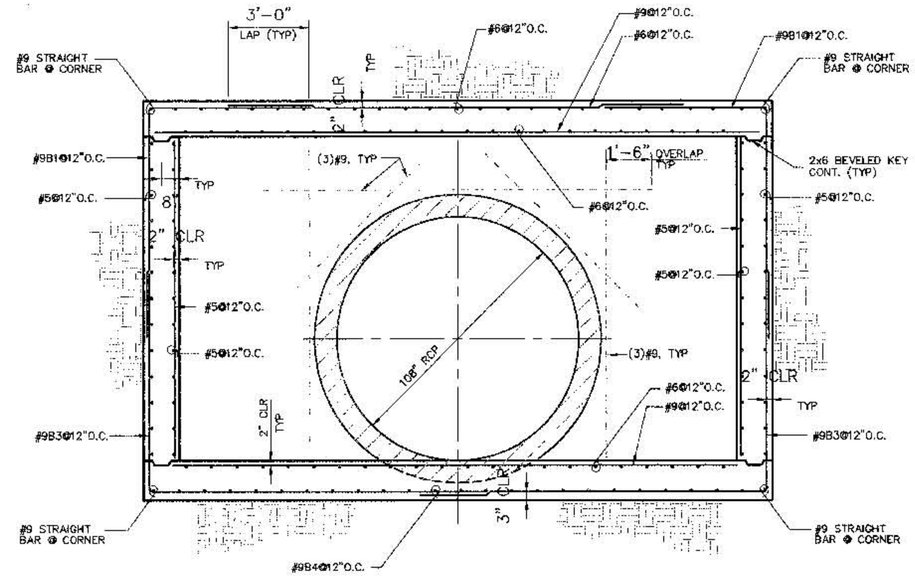
#6 DOWEL @ 12"O.C., EPOXY INTO EXISTING CONCRETE BOX CULVERT, TYPICAL. USE SIMPSON ET22 EPOXY SYSTEM OR EQUIVALENT. TYPICAL AT ALL WALLS AND TOP AND BOTTOM SLABS. ROUGHEN MATING SURFACES OF EXISTING CBC PRIOR TO PLACING CONCRETE.



SECTION

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

1 1212



SECTION

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

2 1212

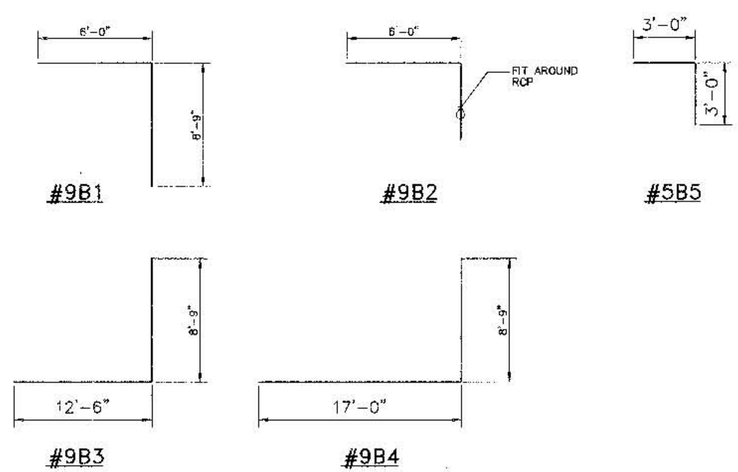
NOTE

ALL RADIUS DIMENSIONS ARE FROM CENTER OF BAR TO CENTER OF BAR

MAIN REINFORCEMENT	
BAR	R
#4	1 3/4"
#5	2 3/16"
#6	2 5/8"
#7	3 1/16"
#8	3 1/2"
#9	5 5/16"

BAR BENDING RADII

BENDING BAR DIAGRAMS



AS BUILT INFORMATION

CONTRACTOR: RHCI, INC.
WORK STAKED BY: RHCI DATE 5-11
ACCEPTANCE BY: R.A. Gurney DATE 5-11
FIELD VERIFICATION BY: R.A. Gurney DATE 5-11
FIELD ACCEPTANCE BY: C.D. Garcia DATE 5-11
DRAWINGS CORRECTED BY: L. LOPEZ DATE 11-11
MICRO-FILM INFORMATION
RECORDED BY: DATE
NO.

BENCH MARKS

I-40-18 NMSHC/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 NMSHC BRASS TABLET, STAMPED "STA I-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494859.08, E 364150.93)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

NEW MEXICO L. ANDREW MEDINA 10771 REGISTERED PROFESSIONAL ENGINEER
5-26-98

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN

		DATE
DESIGNED BY	C.R.D.L.A.	03/98
DRAWN BY	C.R.D.L.A.	03/98
CHECKED BY	D.L.A.	03/98

1961105D

Smith Engineering Company
A Full Service Engineering Company
5400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87109

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

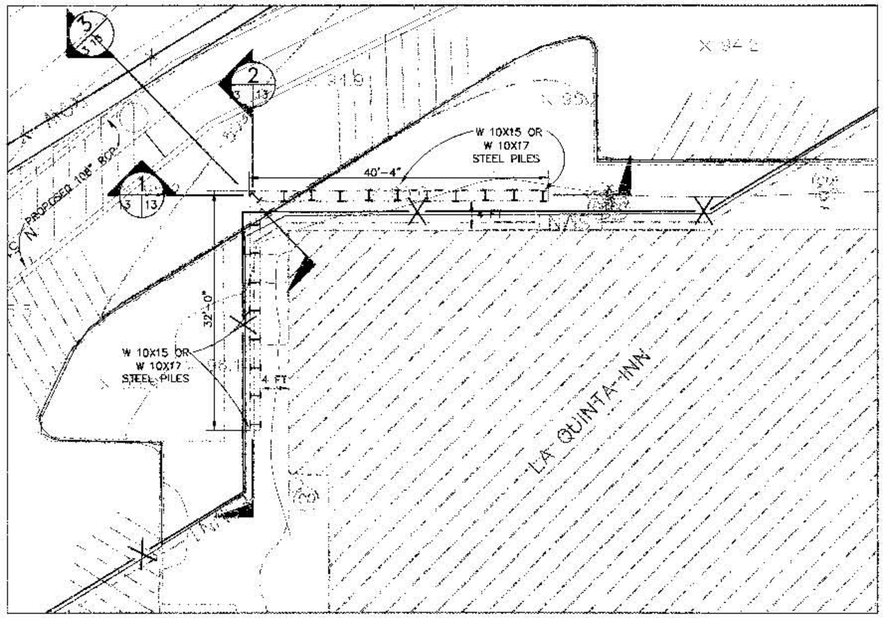
TITLE: WEST MESA DIVERSION PROJECT PHASE I

DOUBLE 10'X12' CONCRETE BOX CULVERT EXTENSION STRUCTURAL DETAILS

Design Review Approval MAY 28 1998 CITY ENGINEER

Last Design Update

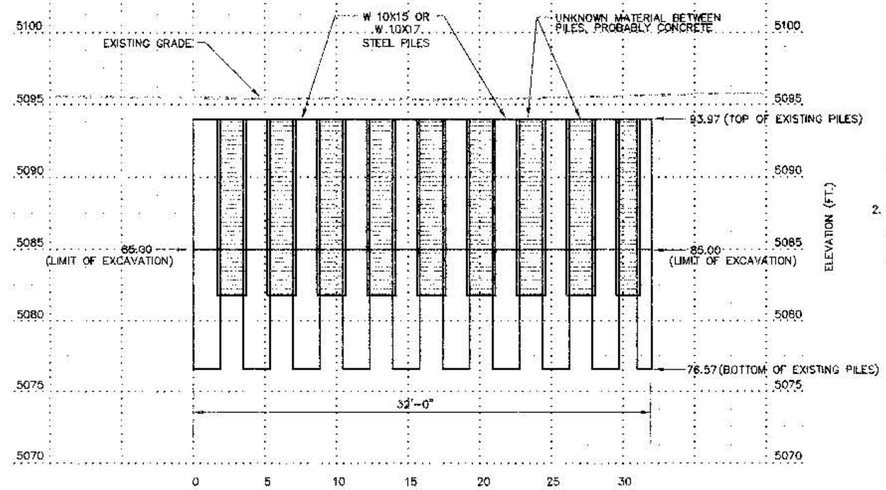
City Project No.	Zone Map No.	Sheet	Of
538191	H-10Z, H-11Z	12	20



PILE/SHORING WALL PLAN VIEW

SCALE: 1" = 10'-0"

N



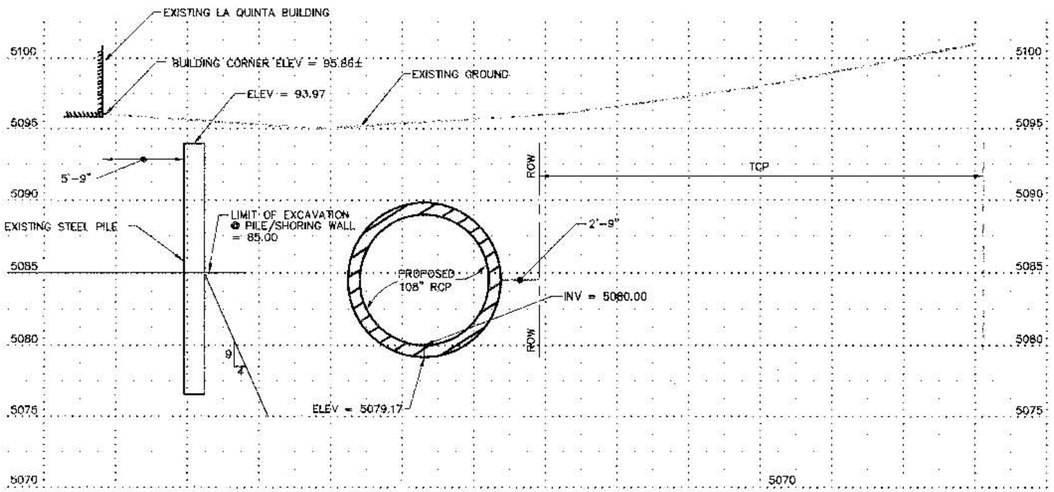
WEST PILE/SHORING WALL

(2 / 13)

SCALE: 1" = 5'-0" VERTICAL
1" = 5'-0" HORIZONTAL

GENERAL NOTES:

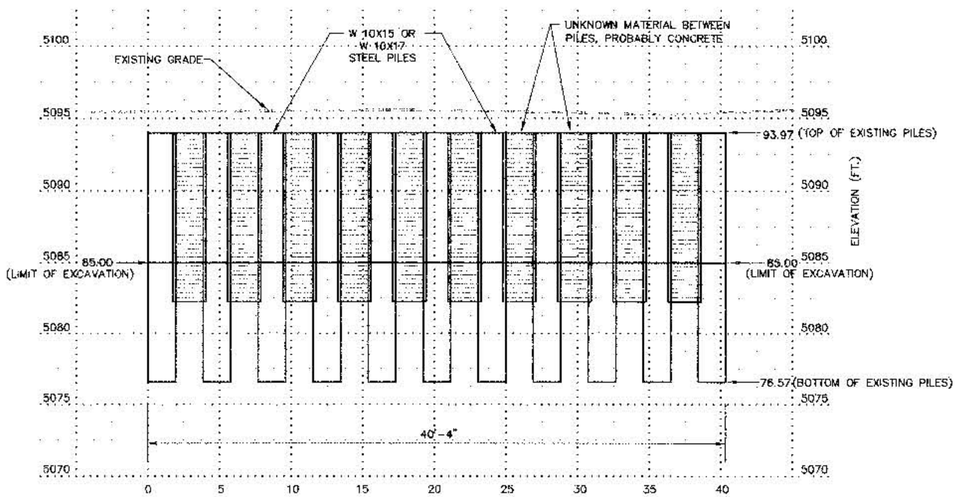
1. BURIED SHEET PILING (ACTING AS SHORING) IS LOCATED IN THE VICINITY OF THE NORTHWEST CORNER OF THE LA QUINTA STRUCTURE. THE LOCATION OF THE SHORING SHOWN ON THIS DRAWING WAS TAKEN FROM THE PERMANENT EASEMENT AGREEMENT BETWEEN THE CITY OF ALBUQUERQUE AND LA QUINTA. THE SHORING WAS CONSTRUCTED TO A DEPTH TO ALLOW A VERTICAL CUT AT THE SHORING FACE TO AN ELEVATION 5085. THE SHORING WAS DESIGNED BASED UPON A TRENCH SLOPE OF 4 FEET HORIZONTAL TO 9 FEET VERTICAL (STARTING @ 5085) AND THE SOIL BEING COMPOSED OF EXISTING MATERIALS. SHOULD OVER EXCAVATION OF THE STORM DRAIN TRENCH BE REQUIRED FOR ANY REASON, THE CONTRACTOR MUST PROVIDE THE ADDITIONAL SUPPORT AT HIS EXPENSE. ANY DAMAGE TO THE LA QUINTA IMPROVEMENTS DUE TO THIS OVEREXCAVATION WILL BE THE CONTRACTORS RESPONSIBILITY.
2. CONTRACTOR MUST LOCATE THE SHORING PRIOR TO TRENCHING IN THE AREA OF THE SHORING, TO VERIFY ITS LOCATION. IF THE SHORING IS NOT IN THE LOCATION SHOWN ON THIS SHEET, THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER AS SOON AS POSSIBLE.



SHORING DETAIL

(3 / 13)

SCALE: 1" = 5'-0"



NORTH PILE/SHORING WALL

(1 / 13)

SCALE: 1" = 5'-0" VERTICAL
1" = 5'-0" HORIZONTAL

THIS SHEET IS FOR INFORMATION PURPOSES ONLY

AS BUILT INFORMATION

CONTRACTOR R.C.T. S.J.C.
WORK STAKED BY R.C.T. DATE 5-98
FIELD INSPECTOR ACCEPTANCE BY R. GARCIA DATE 5-98
FIELD VERIFICATION BY L. LOPEZ DATE 5-98
DRAWINGS CORRECTED BY L. LOPEZ DATE 11-98
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

I-40-18 NMSHC/ACS ELEV. 5103.98 FEET (GLD 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 I-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494859.06, E 384150.93)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

NEW MEXICO DONALD L. ANDREWS 10771 REGISTERED PROFESSIONAL ENGINEER
5-21-98

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN

		DATE
DESIGNED BY:	C.R.D.L.A.	04/98
DRAWN BY:	C.R.D.L.A.	04/98
CHECKED BY:	D.L.A.	04/98

196105D
Smith Engineering Company
A Full Service Engineering Company

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: WEST MESA DIVERSION PROJECT PHASE I

LA QUINTA EXISTING PILE/SHORING DETAIL SHEET

Design Review Committee
City Engineer Approval
APPROVED CITY ENGINEER
Last Design Update

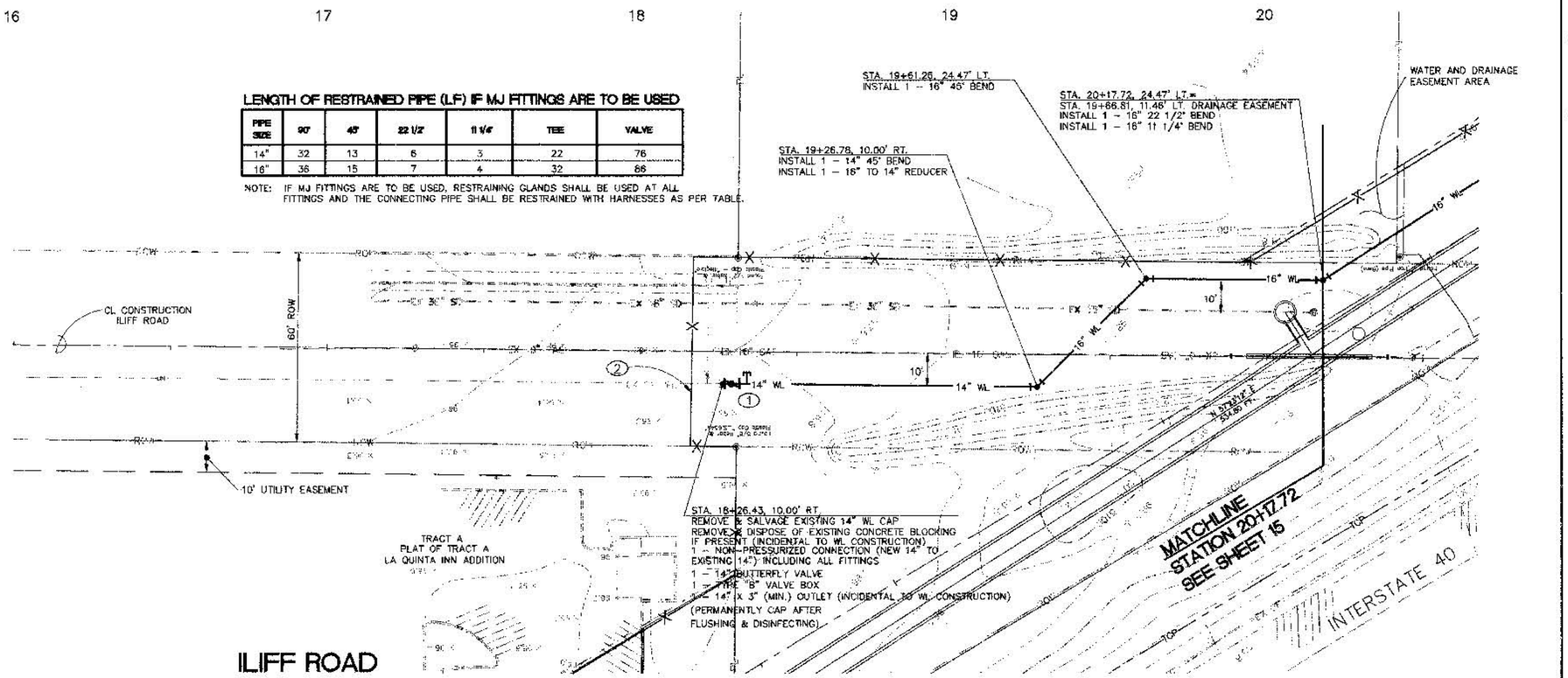
	Yr. / Day / Yr.	Yr. / day / Yr.

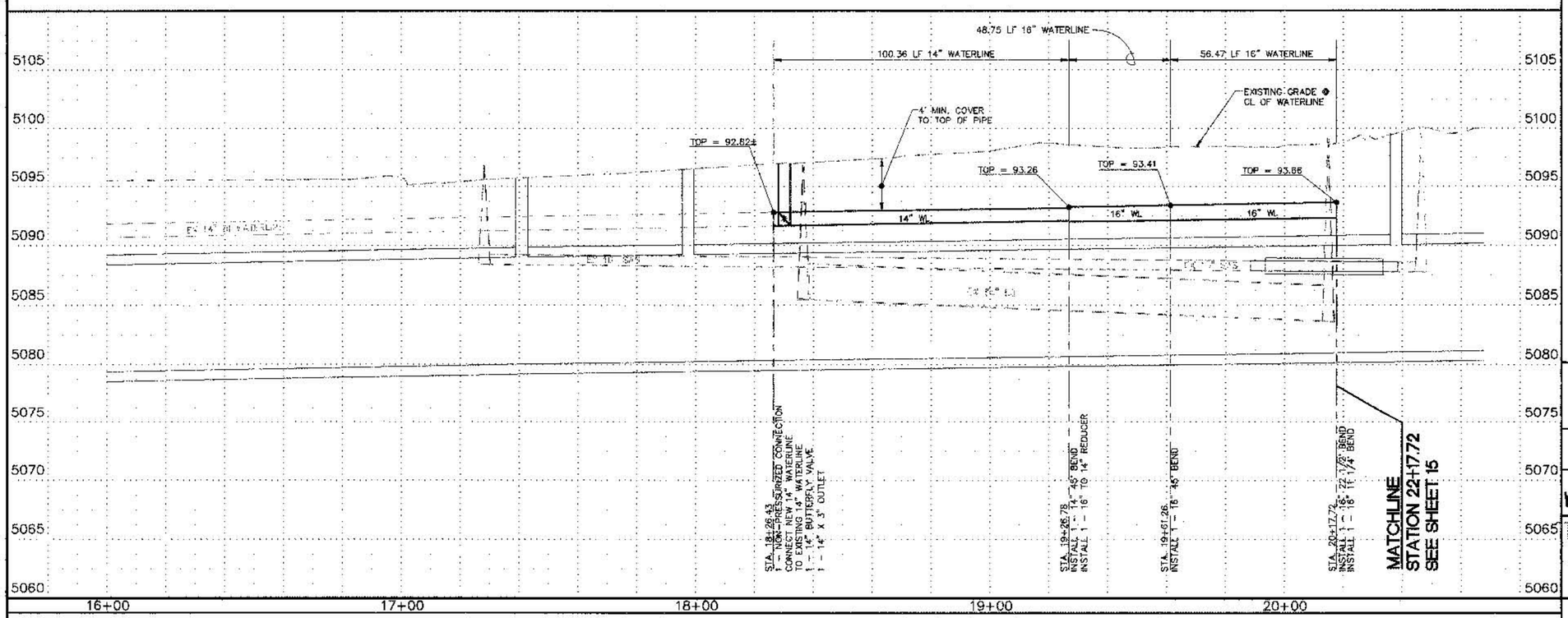
City Project No. 5381.91 | Zone Map No. H-10Z, H-11Z | Sheet 13 Of 20

LENGTH OF RESTRAINED PIPE (LF) IF MJ FITTINGS ARE TO BE USED

PIPE SIZE	90°	45°	22 1/2°	11 1/4°	TEE	VALVE
14"	32	13	6	3	22	76
16"	36	15	7	4	32	86

NOTE: IF MJ FITTINGS ARE TO BE USED, RESTRAINING GLANDS SHALL BE USED AT ALL FITTINGS AND THE CONNECTING PIPE SHALL BE RESTRAINED WITH HARNESSES AS PER TABLE.





KEYED NOTES:

1. FILLING, FLUSHING, AND DISINFECTION VIA EXISTING FIREHYDRANT. USE OWNER PROVIDED 3" BACKFLOW PREVENTOR. SCHEDULE AND COORDINATE THE USE WITH KEITH REED, COA/PUBLIC WORKS, AT 768-2713. USE CONTRACTOR FURNISHED HYDRANT METER TO ACCOUNT FOR WATER.
2. INSTALL TEMPORARY CHAIN-LINK FENCE, 5' HIGH, INCLUDING POSTS & HARDWARE. REMOVE & DISPOSE WHEN CONSTRUCTION OF PERMANENT FENCING IS COMPLETE.

AS BUILT INFORMATION
CONTRACTOR Enci, Inc.
WORK STAKED BY Enci DATE 5-99
ACCEPTANCE BY Burton DATE 5-99
FIELD VERIFICATION BY Lopez DATE 5-99
DRAWINGS CORRECTED BY L. Lopez DATE 5-99
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
1-40-16 NMSHC/ACS ELEV. 5103.98 FEET (S.D 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. I-40-16", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494859.08, E 364150.93)

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEERS SEAL
MEXICO, NEW — CHARLES L. ANDREWS — REGISTERED PROFESSIONAL ENGINEER
5-26-98

N

Vertical Scale: 1" = 5'

Horizontal Scale: 1"=20'

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN
DESIGNED BY CJR/DLA DATE 04/98
DRAWN BY CJR/DLA DATE 04/98
CHECKED BY DLA DATE 04/98

1961050
Smith Engineering Company
A Full Service Engineering Company
4400 Sylvan Boulevard, N.E. Suite 3000 Albuquerque, New Mexico 87109

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: WEST MESA DIVERSION PROJECT PHASE I

WATERLINE P & P: ILIFF ROAD: STA 16+00 TO 22+17.72

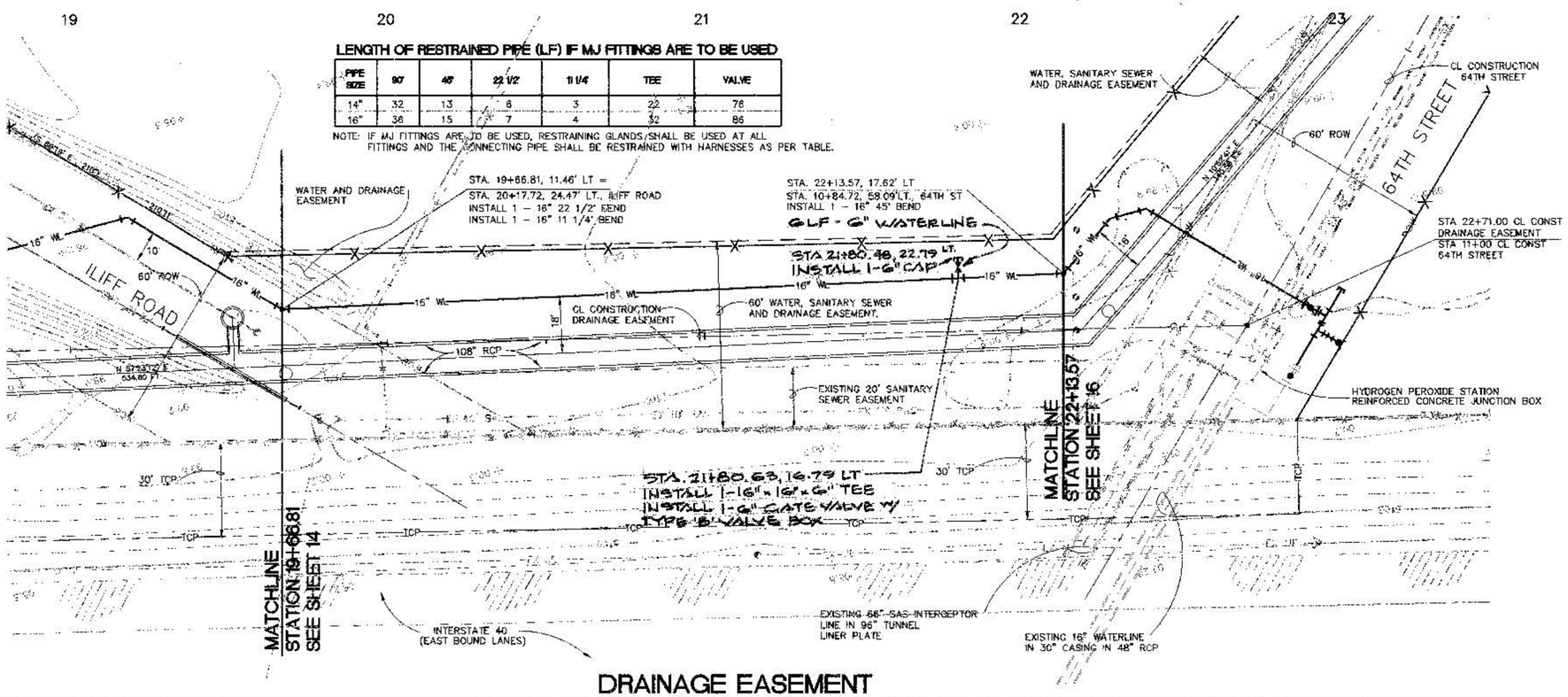
Design Review Committee
City Engineer Approval
CITY ENGINEER
Last Design Update
No. / Day / Yr.

City Project No. 538191
Zone Map No. H-10Z, H-11Z
Sheet 14 of 20

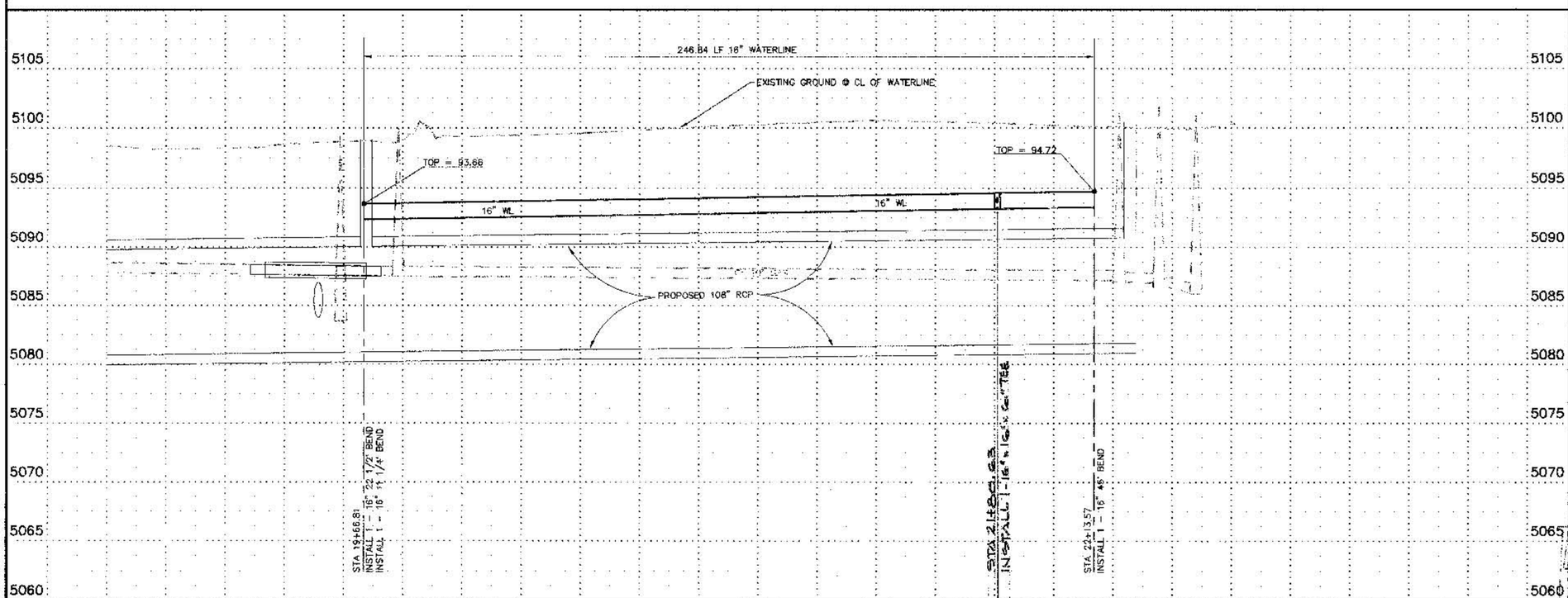
LENGTH OF RESTRAINED PIPE (LF) IF MJ FITTINGS ARE TO BE USED

PIPE SIZE	90°	45°	22 1/2°	11 1/4°	TEE	VALVE
14"	32	13	6	3	22	76
16"	36	15	7	4	32	86

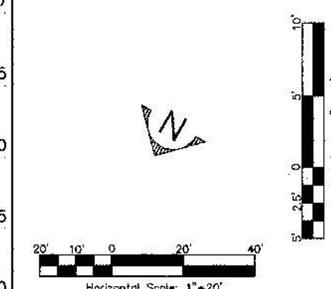
NOTE: IF MJ FITTINGS ARE TO BE USED, RESTRAINING GLANDS SHALL BE USED AT ALL FITTINGS AND THE CONNECTING PIPE SHALL BE RESTRAINED WITH HARNESSES AS PER TABLE.



DRAINAGE EASEMENT



KEYED NOTES:



196105D

Smith Engineering Company
A Full Service Engineering Company

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: WEST MESA DIVERSION PROJECT PHASE I

WATERLINE P & P: DRAINAGE EASEMENT: STA 19+66.81 TO 22+13.57

Design Review Committee — DESIGN REVIEW COMMITTEE

City Engineer Approval — CITY ENGINEER

Last Design Update | No. / Day / Yr. | No. / Day / Yr.

City Project No. 5381.91 | Zone Map No. H-10Z, H-11Z | Sheet 15 Of 20

AS BUILT INFORMATION

CONTRACTOR BRICE, INC.

WORK STAKED BY	BRICE	DATE 5-11
INSPECTED BY	[illegible]	DATE 5-11
ACCEPTANCE BY	[illegible]	DATE 5-11
FIELD VERIFICATION BY	[illegible]	DATE 5-11
DRAWINGS CORRECTED BY	L. LOPEZ	DATE 11-99
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

BENCH MARKS

1-40-18 NMSHC/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 NMSHC BRASS TABLET, STAMPED "STA. I-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494959.08, E 364150.93)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

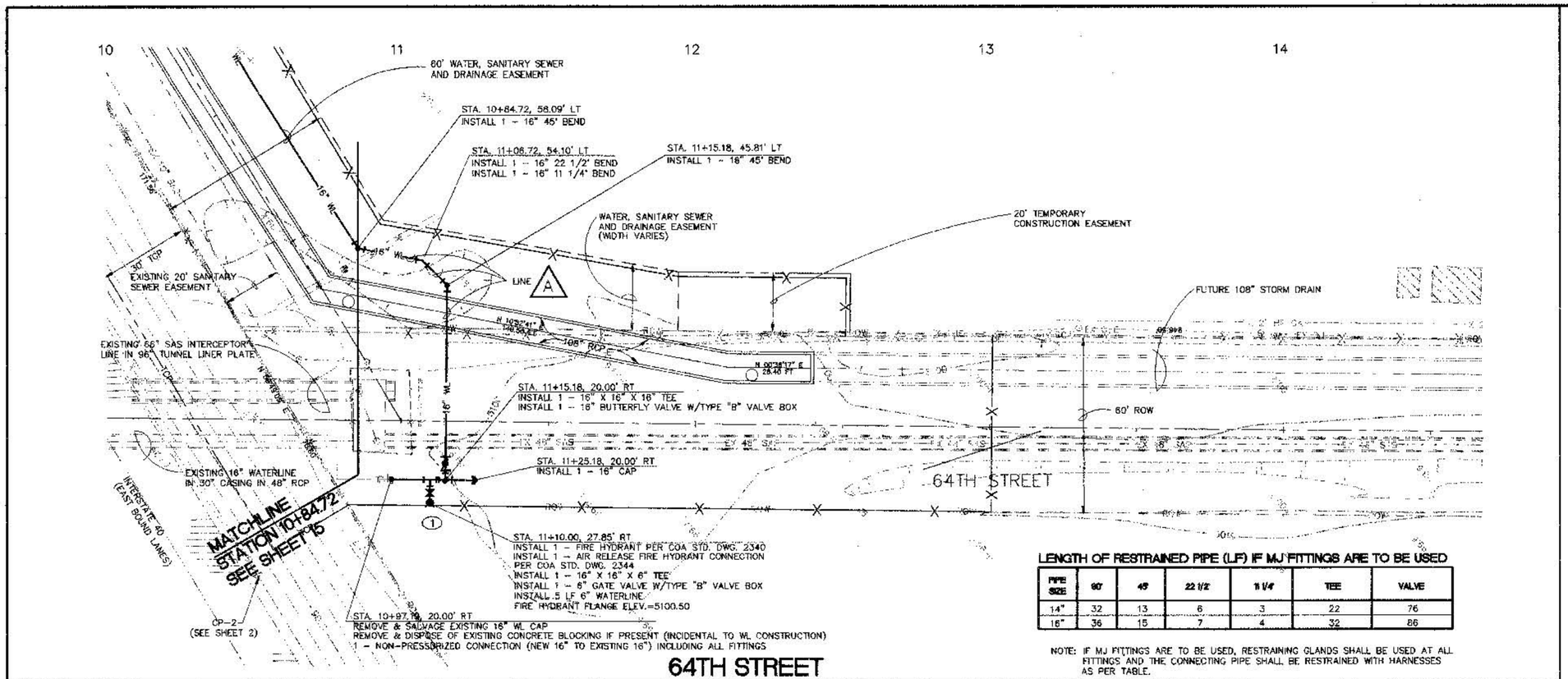
ENGINEERS SEAL

DOUGLAS L. MOREWS — NEW MEXICO — REGISTERED PROFESSIONAL ENGINEER

5-26-98

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGNED BY	CJR,DLA	04/98
DRAWN BY	CJR,DLA	04/98
CHECKED BY	DLA	04/98



64TH STREET

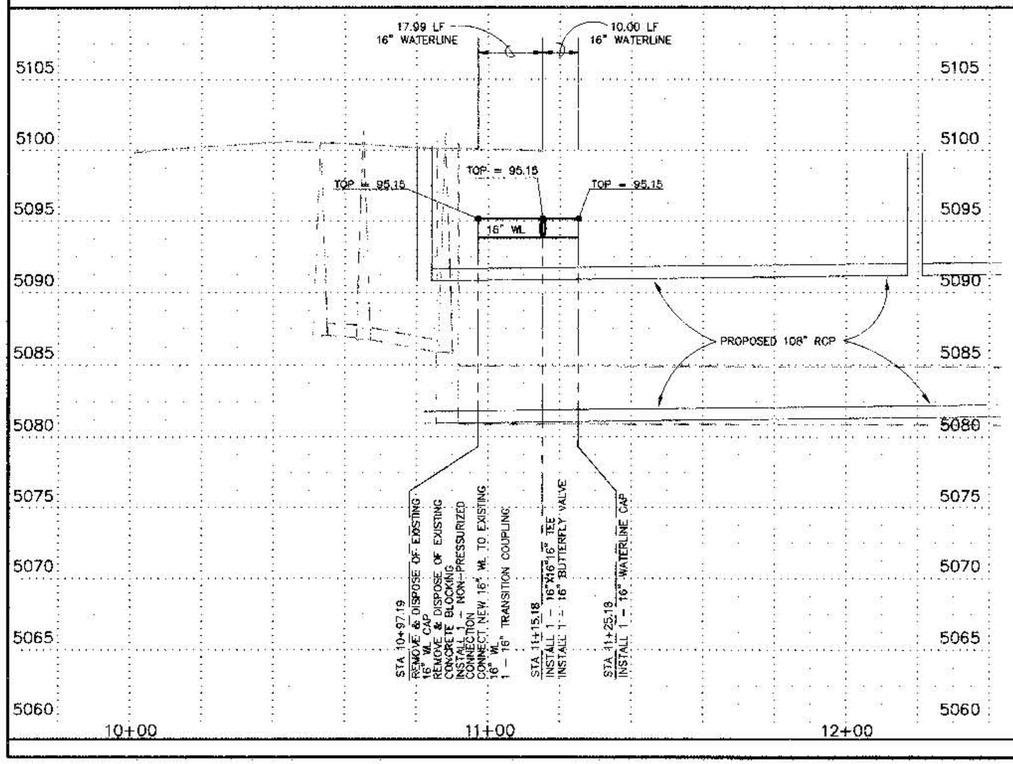
LENGTH OF RESTRAINED PIPE (LF) IF MJ FITTINGS ARE TO BE USED

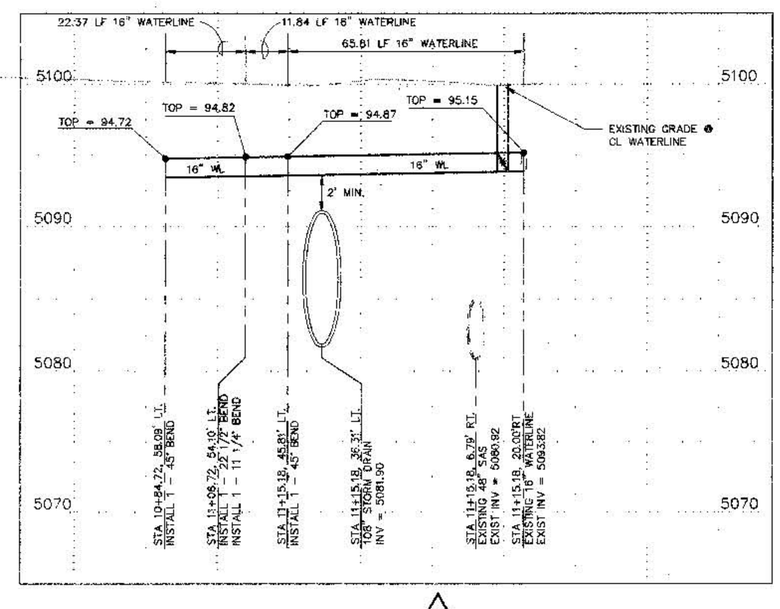
PIPE SIZE	90°	45°	22 1/2°	11 1/4°	TEE	VALVE
14"	32	13	6	3	22	76
16"	36	15	7	4	32	86

NOTE: IF MJ FITTINGS ARE TO BE USED, RESTRAINING GLANDS SHALL BE USED AT ALL FITTINGS AND THE CONNECTING PIPE SHALL BE RESTRAINED WITH HARNESSES AS PER TABLE.

KEYED NOTES:

1. USE NEW FIRE HYDRANT AS OUTLET FOR FLUSHING. DRAIN WATER TO STORM DRAIN OR SANITARY SEWER.





PROFILE OF LINE A

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

AS BUILT INFORMATION
CONTRACTOR: FEC, Inc.
WORK STAKED BY: A.S.L. Survey DATE 5-11
ACCEPTANCE BY: E.Martin DATE 5-11
FIELD VERIFICATION BY: C.Romero DATE 5-11
DRAWINGS CORRECTED BY: L.Lopez DATE 5-11
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
1-40-18 NMSHC/ACS ELEV. 5103.98 FEET (USD 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)

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEERS SEAL
NEW MEXICO REGISTERED PROFESSIONAL ENGINEER DOUGLAS L. ANDREWS 9698
5-26-98

Horizontal Scale: 1"=20'
Vertical Scale: 1" = 5'

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY CJR/DLA DATE 03/98
DRAWN BY CJR/DLA DATE 03/98
CHECKED BY DLA DATE 03/98

Smith Engineering Company
A Full Service Engineering Company
1961050

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: WEST MESA DIVERSION PROJECT PHASE I
WATERLINE P & P: 64TH STREET: STA 10+00 TO 14+00

Design Review Committee: APPROVED
City Engineer Approval: APPROVED CITY ENGINEER
Last Design Update

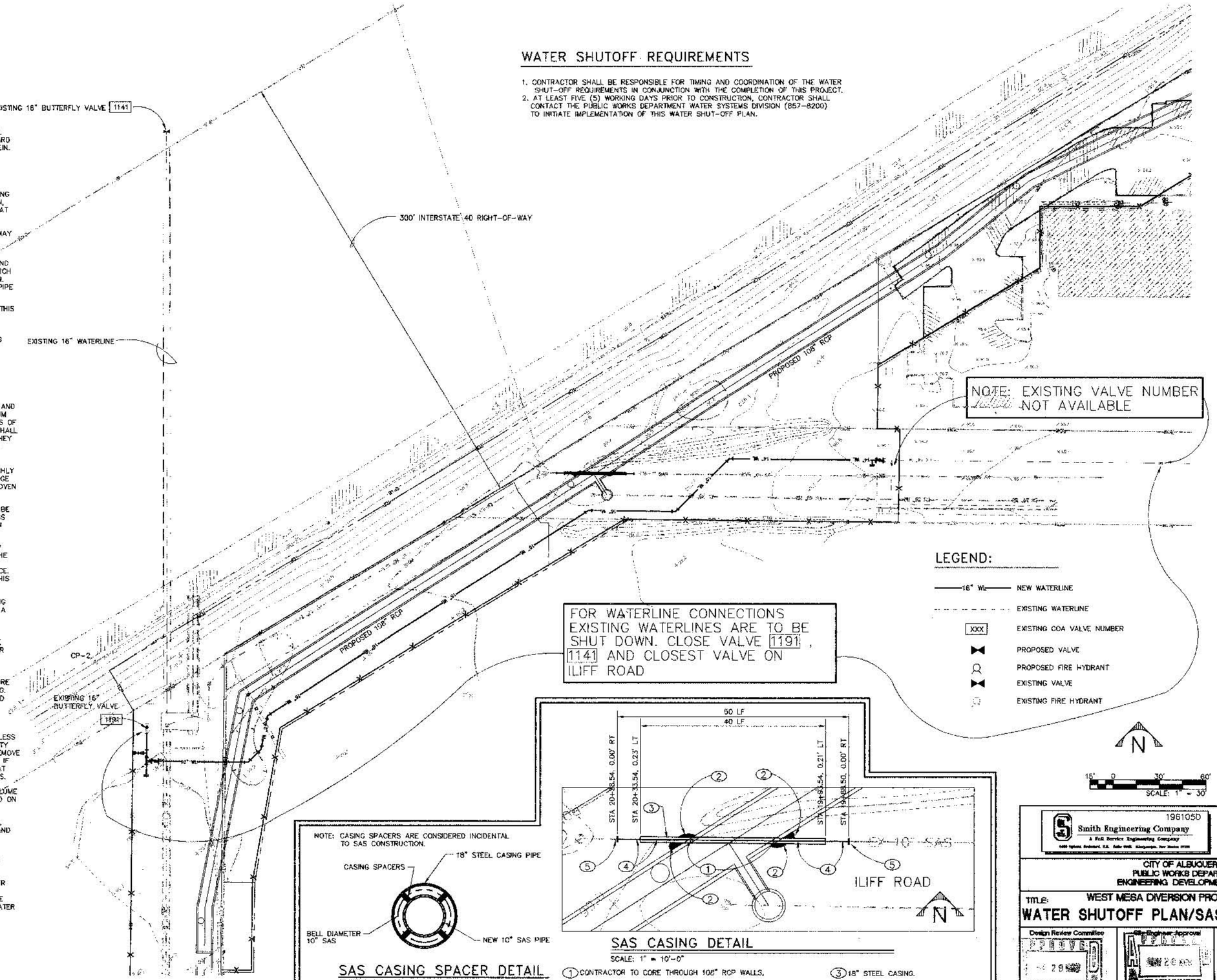
City Project No. 5381.91 | Zone Map No. H-10Z, H-11Z | Sheet 16 Of 20

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 DISHCARGE 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 DIINFECTION 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 REQUIREMENTS

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.



AS BUILT INFORMATION
CONTRACTOR R.T.C., INC.
WORK STAKED BY ARO SURVEY DATE 5-11
WORK INSPECTED BY E. SALTIER DATE 5-11
FIELD VERIFICATION BY CDA/ERG DATE 5-11
DRAWINGS CORRECTED BY L. LOPEZ DATE 11-99
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
1-40-18 NMSHC/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 NMSHC BRASS TABLET, STAMPED "STA I-40-18", SET IN TOP OF A CONCRETE POST, FLUSH WITH THE GROUND. (N 1494559.08, E 364150.93)

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEERS SEAL
MEXICO DOUGLAS L. ANDREWS 5-26-98

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY CJR/DLA DATE 04/98
DRAWN BY CJR/DLA DATE 04/98
CHECKED BY DLA DATE 04/98

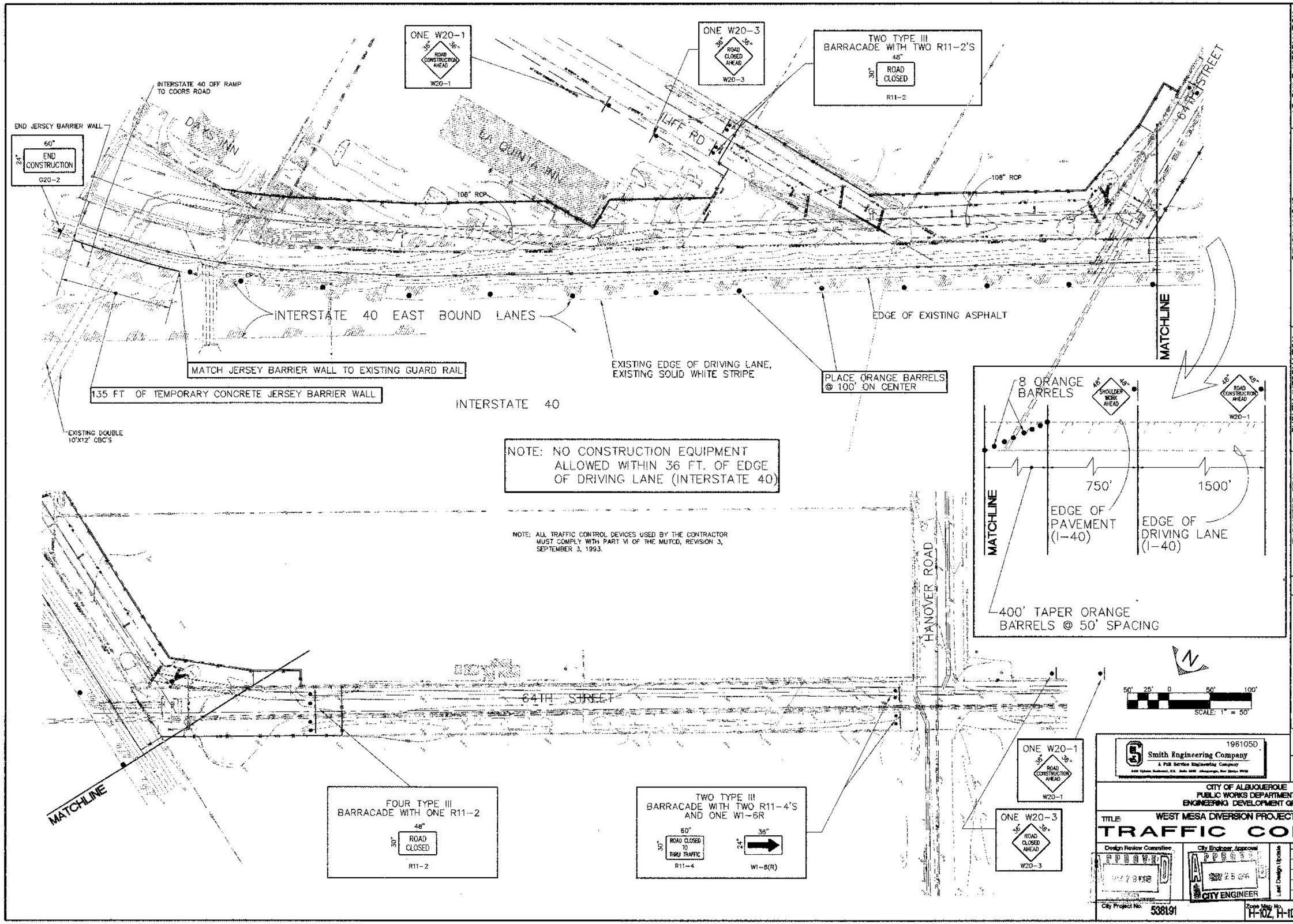
196105D
Smith Engineering Company
A Full Service Engineering Company

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: WEST MESA DIVERSION PROJECT PHASE I
WATER SHUTOFF PLAN/SAS CASING DETAILS

Design Review Committee: APPROVED 29 MAY 1998
City Engineer Approval: APPROVED 28 MAY 1998 CITY ENGINEER
Last Design Update
No. / Date / Sig. | No. / Date / Sig.

City Project No. 538191
Zone Map No. H-10Z, H-11Z
Sheet 17 of 20



AS BUILT INFORMATION
CONTRACTOR BNCI, Inc.
WORK STAKED BY BNCI DATE 5-99
ACCEPTANCE BY DATE 5-99
FIELD VERIFICATION BY DATE 5-99
DRAWINGS CORRECTED BY L. LOPEZ DATE 1-99
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
I-40-18 NMSHC/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 NMSHC BRASS TABLET, STAMPED "STA I-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494359.08, E 384150.93)

SURVEY INFORMATION
FIELD NOTES

NO.	DATE	BY

ENGINEERS SEAL
NEW MEXICO REGISTERED PROFESSIONAL ENGINEER
5-26-98

NO.	DATE	REMARKS	BY

REVISIONS

		DATE
DESIGNED BY	C.R. DLA	04/98
DRAWN BY	C.R. DLA	04/98
CHECKED BY	DLA	04/98

196105D
Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 500W Albuquerque, New Mexico 87110

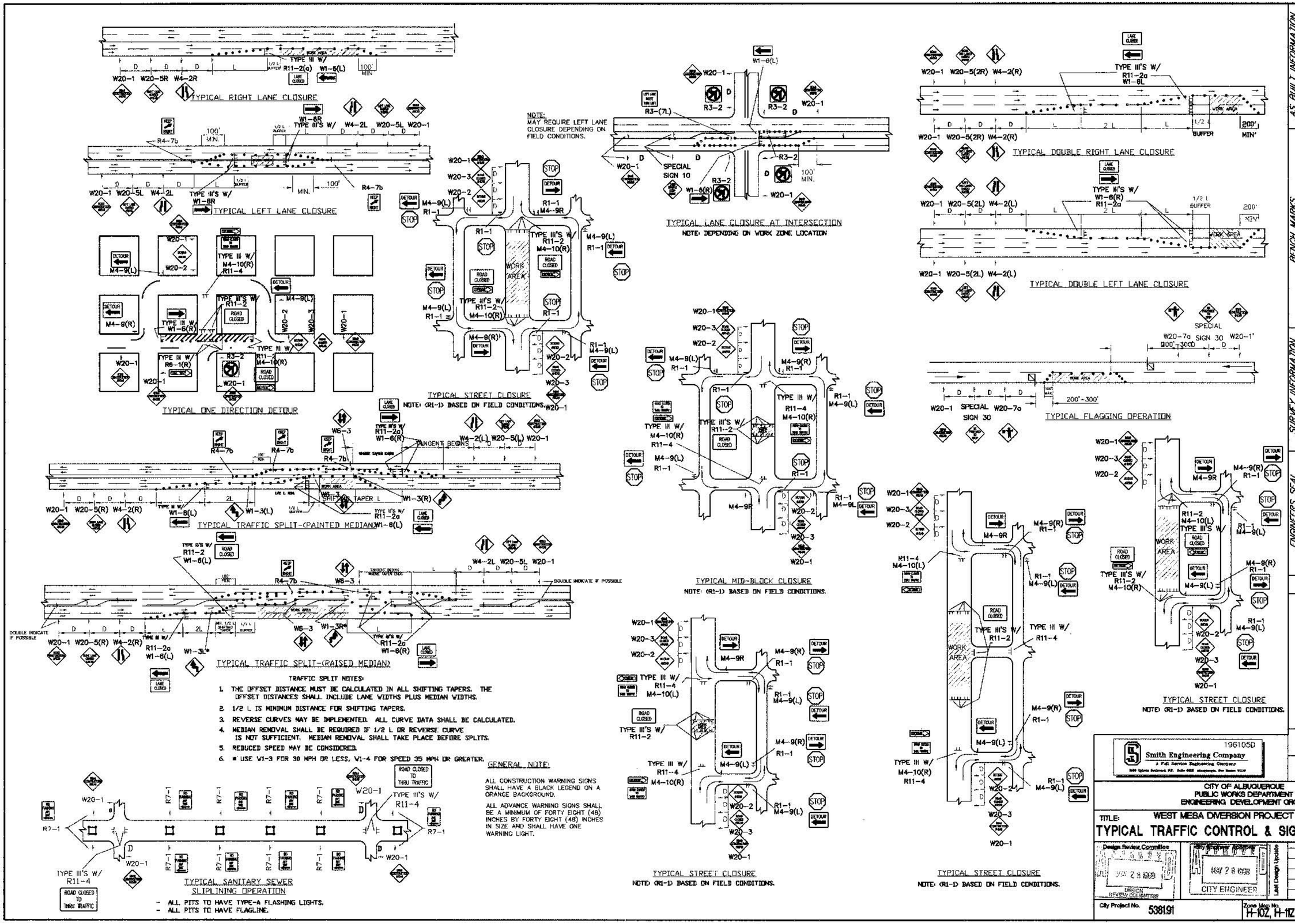
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: WEST MESA DIVERSION PROJECT PHASE I

TRAFFIC CONTROL

Design Review Committee: APPROVED 6/23/98
City Engineer Approval: APPROVED 6/25/98 CITY ENGINEER
Last Design Update
No. / Reg. / Yr.
No. / Reg. / Yr.

City Project No. 538191
Zone Map No. H-10Z, H-11Z
Sheet 18 Of 20


TYPICAL RIGHT LANE CLOSURE
TYPICAL LEFT LANE CLOSURE
TYPICAL ONE DIRECTION DETOUR
TYPICAL STREET CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.
NOTE: MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.
TYPICAL LANE CLOSURE AT INTERSECTION
NOTE: DEPENDING ON WORK ZONE LOCATION
TYPICAL DOUBLE RIGHT LANE CLOSURE
TYPICAL DOUBLE LEFT LANE CLOSURE
TYPICAL FLAGGING OPERATION
TYPICAL TRAFFIC SPLIT-(PAINTED MEDIAN)
TYPICAL TRAFFIC SPLIT-(RAISED MEDIAN)
TYPICAL MID-BLOCK CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.
TYPICAL STREET CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.
TYPICAL STREET CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.
TYPICAL STREET CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.
TYPICAL SANITARY SEWER SLIPLINING OPERATION
- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS.
- ALL PITS TO HAVE FLAGLINE.
GENERAL NOTE:
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.
ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF FORTY EIGHT (48) INCHES BY FORTY EIGHT (48) INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.
AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY
ACCEPTANCE BY
FIELD VERIFICATION BY
DRAWINGS CORRECTED BY
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.
BENCH MARKS
1-40-18 NMSHC/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 NMSHC BRASS TABLET, STAMPED "STA. I-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494859.08, E 384150.93)
SURVEY INFORMATION
FIELD NOTES
NO. BY DATE
ENGINEERS SEAL
REVISIONS
NO. DATE REMARKS BY
DESIGN
DESIGNED BY C.R.D.L.A. DATE 04/98
DRAWN BY C.R.D.L.A. DATE 04/98
CHECKED BY D.L.A. DATE 04/98
196105D
Smith Engineering Company
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
TITLE:
WEST MESA DIVERSION PROJECT PHASE I
TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES
Design Review Committee
DESIGN REVIEW COMMITTEE
CITY ENGINEER
Last Design Update
City Project No. 538191
Zone Map No. H-10Z, H-11Z
Sheet 19 Of 20

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 TRAVELLED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

19. 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.

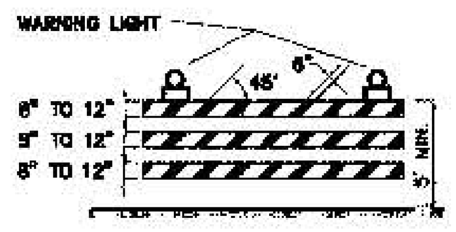
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

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

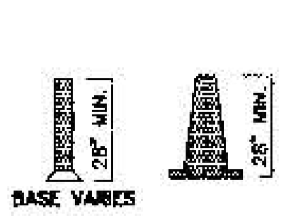
26. ADVANCE WARNING SIGNS SHALL BE 36"x36" WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48-INCH SIGN AS INDICATED IN THE MUTCD.

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

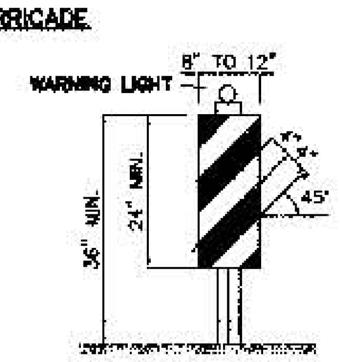
28. CONSTRUCTION COORDINATION DIVISION RESERVES THE RIGHT TO WITHHOLD BARRICADE AND EXCAVATION PERMITS IN ORDER TO ELIMINATE CONFLICTS WITH OTHER ON-GOING PROJECTS IN THE VICINITY OR OTHER SPECIAL EVENTS. BARRICADING PERMITS EFFECTING LANES OF TRAFFIC ON EITHER GOLF COURSE ROAD OR IRVING BOULEVARD WILL NOT BE ISSUED FOR THE PERIOD BETWEEN DECEMBER 6, 1997 UNTIL DECEMBER 28, 1997.



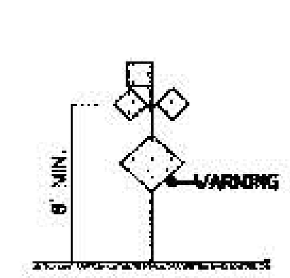
TYPE III BARRICADE



CONES



VERTICAL PANEL

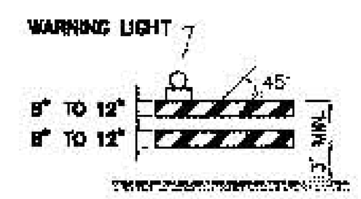


HIGH LEVEL WARNING DEVICE

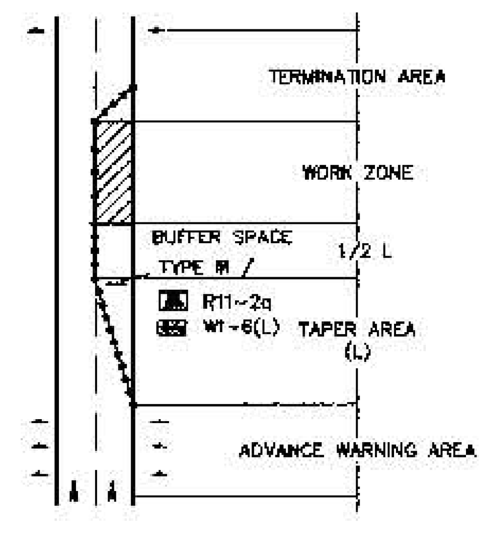
LEGEND

- WORK AREA
- BARRICADE - TYPE I, TYPE II, OR BARREL
- BARRICADE - TYPE III
- X VERTICAL PANEL
- WARNING SIGN
- D DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
- FLAGMAN POSITION
- S SPACING BETWEEN BARRICADES- A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
- L TAPER LENGHT - SEE CHART BELOW

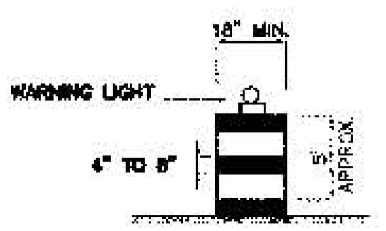
THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.



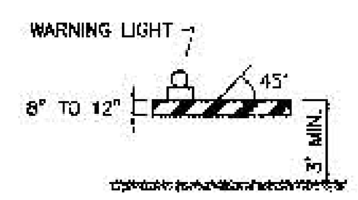
TYPE II BARRICADE
COLLAPSIBLE



TRAFFIC CONTROL ELEMENTS



BARREL



TYPE I BARRICADE
COLLAPSIBLE

TAPER REQUIREMENTS

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

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

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

TAPER CRITERIA

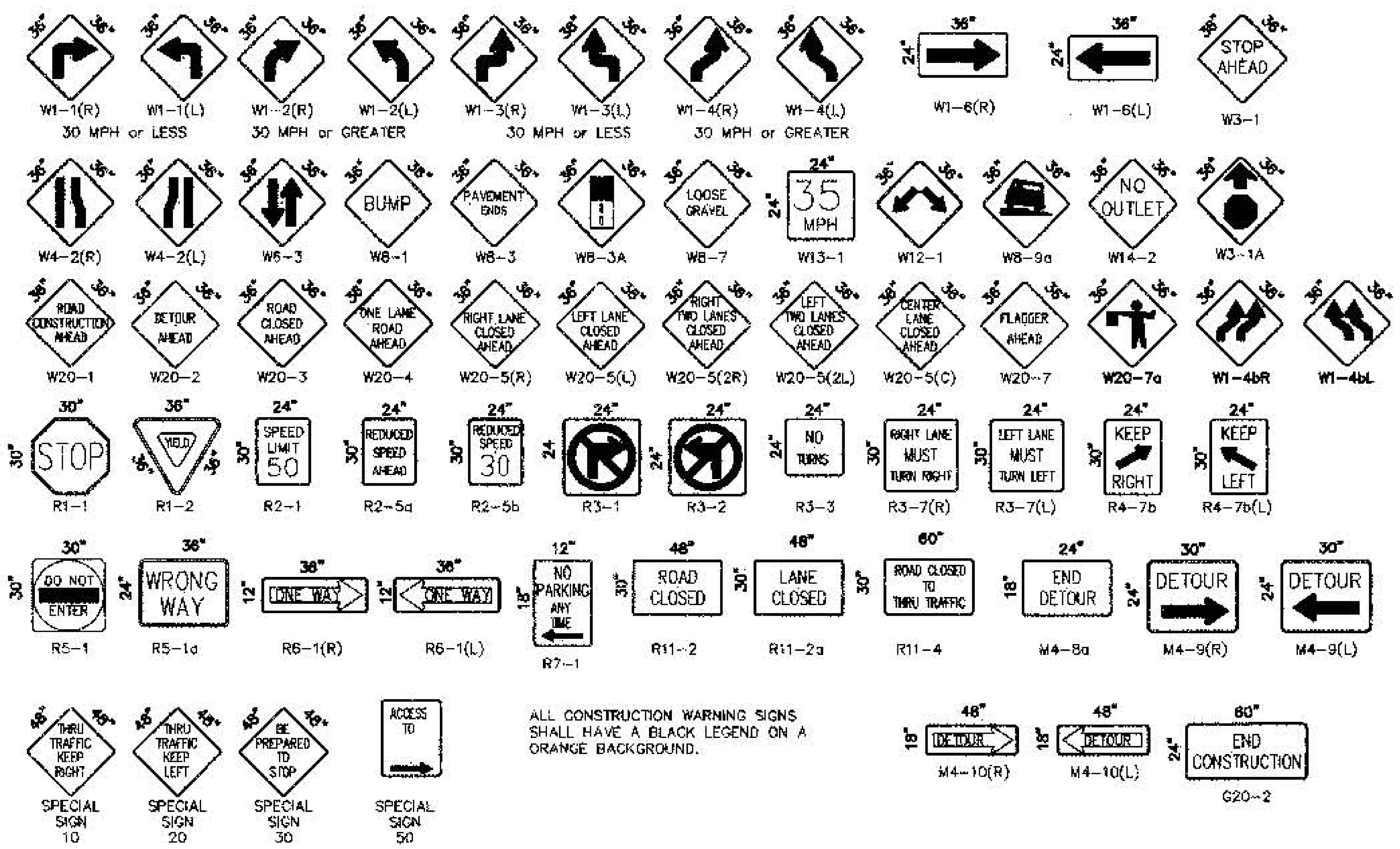
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

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

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

SIGN FACE DETAILS



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

AS BUILT INFORMATION
CONTRACTOR RMCI, INC
WORK STAKED BY ABQ SURVEY DATE 5-99
INSPECTOR'S ACCEPTANCE BY ELOTERRIO COA DATE 5-99
FIELD VERIFICATION BY COA DATE 5-99
DRAWINGS CORRECTED BY L. LOPEZ DATE 11-99

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
I-40-18 NMSHC/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 NMSHC BRASS TABLET, STAMPED "STA I-40-18", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. (N 1494859.08, E 364150.93)

SURVEY INFORMATION
FIELD NOTES
NO.	BY	DATE

ENGINEERS SEAL
DOUGLAS L. ANDREWS NEW MEXICO REGISTERED PROFESSIONAL ENGINEER
5-26-98

NO.	DATE	BY	REMARKS

REVISIONS
DESIGN
DESIGNED BY CJR,DLA DATE 04/98
DRAWN BY CJR,DLA DATE 04/98
CHECKED BY DLA DATE 04/98

196105D
Smith Engineering Company
A Full Service Engineering Company

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: WEST MESA DIVERSION PROJECT PHASE I
SIGNING & CONSTRUCTION TRAFFIC CONTROL STANDARDS

Design Review Committee: APPROVED MAY 28 1998 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED CITY ENGINEER
Last Design Update

City Project No. 538191
Zone Map No. H-10Z, H-11Z
Sheet 20 of 20