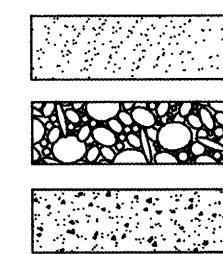


# LEGEND

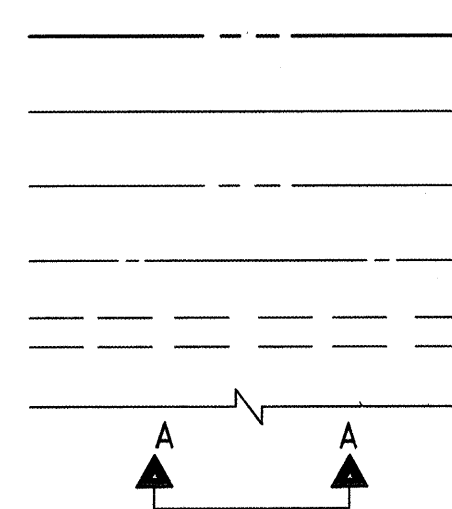
## MATERIALS

SOIL CEMENT  
RIP-RAP  
CONCRETE



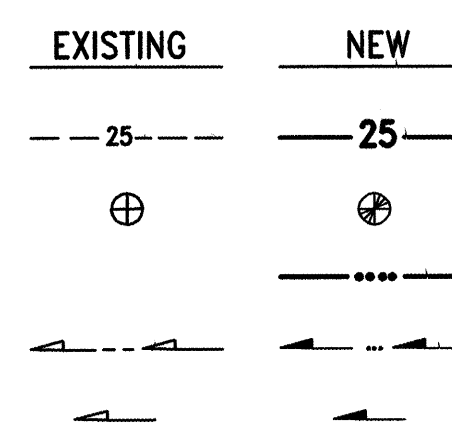
## LINES

SUBDIVISION BOUNDARY  
PROPERTY LINE (PLAN)  
PROPERTY LINE (SECTION)  
CENTERLINE  
EASEMENT LINE  
MATCH LINE  
SECTION CUT LINE



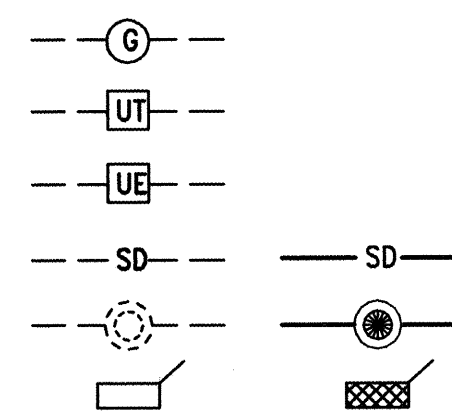
## EARTHWORK

CONTOUR LINE  
SPOT ELEVATION  
PROJECT / PHASE BOUNDARY  
FLOWLINE  
DIRECTION OF FLOW



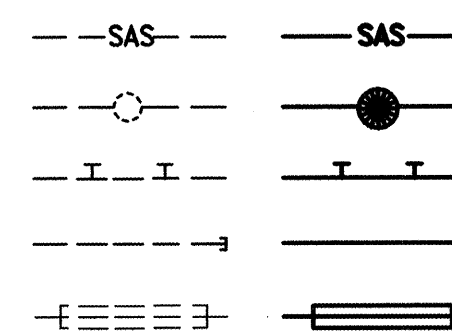
## MISCELLANEOUS UTILITIES

GAS LINE  
UNDERGROUND TELEPHONE  
UNDERGROUND ELECTRICAL  
STORM DRAIN  
STORM DRAIN MANHOLE  
STORM DRAIN INLET



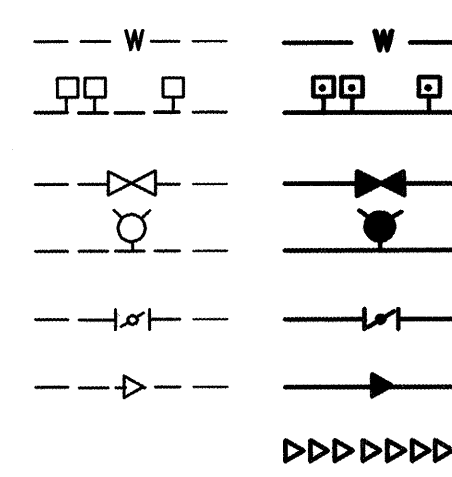
## SANITARY SEWER

SANITARY SEWER LINE  
SANITARY SEWER MANHOLE  
SAS SERVICE CONNECTIONS  
SAS CAP OR PLUG  
ENCASEMENT



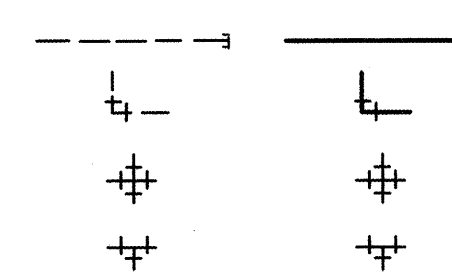
## WATER

WATER LINE  
WATER SERVICE CONNECTIONS  
GATE VALVE  
FIRE HYDRANT  
BUTTERFLY VALVE  
REDUCER  
WATER PRESSURE ZONE BOUNDARY



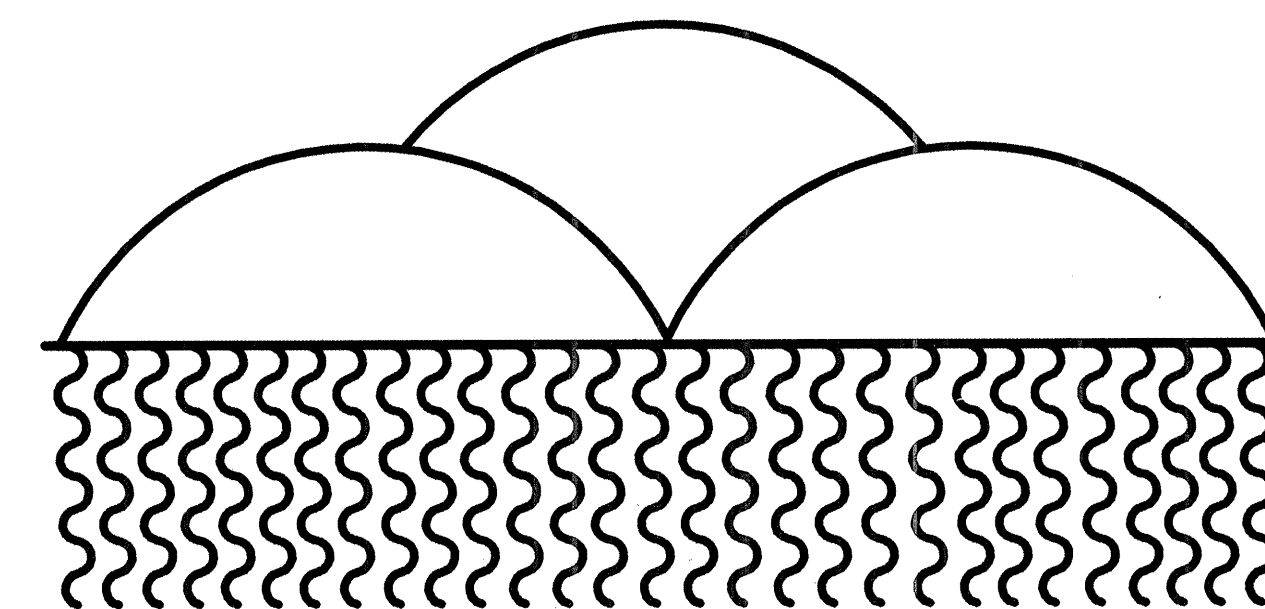
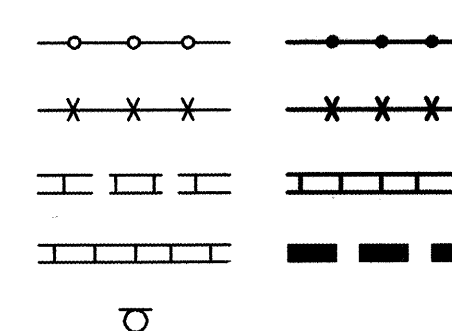
## WATER FITTINGS

CAPS AND PLUGS  
ELBOW  
CROSS  
TEE



## MISCELLANEOUS

CHAINLINK FENCE  
FIELD FENCE  
COMMON YARD WALL  
RETAINING WALL  
POWER OR TELEPHONE POLE



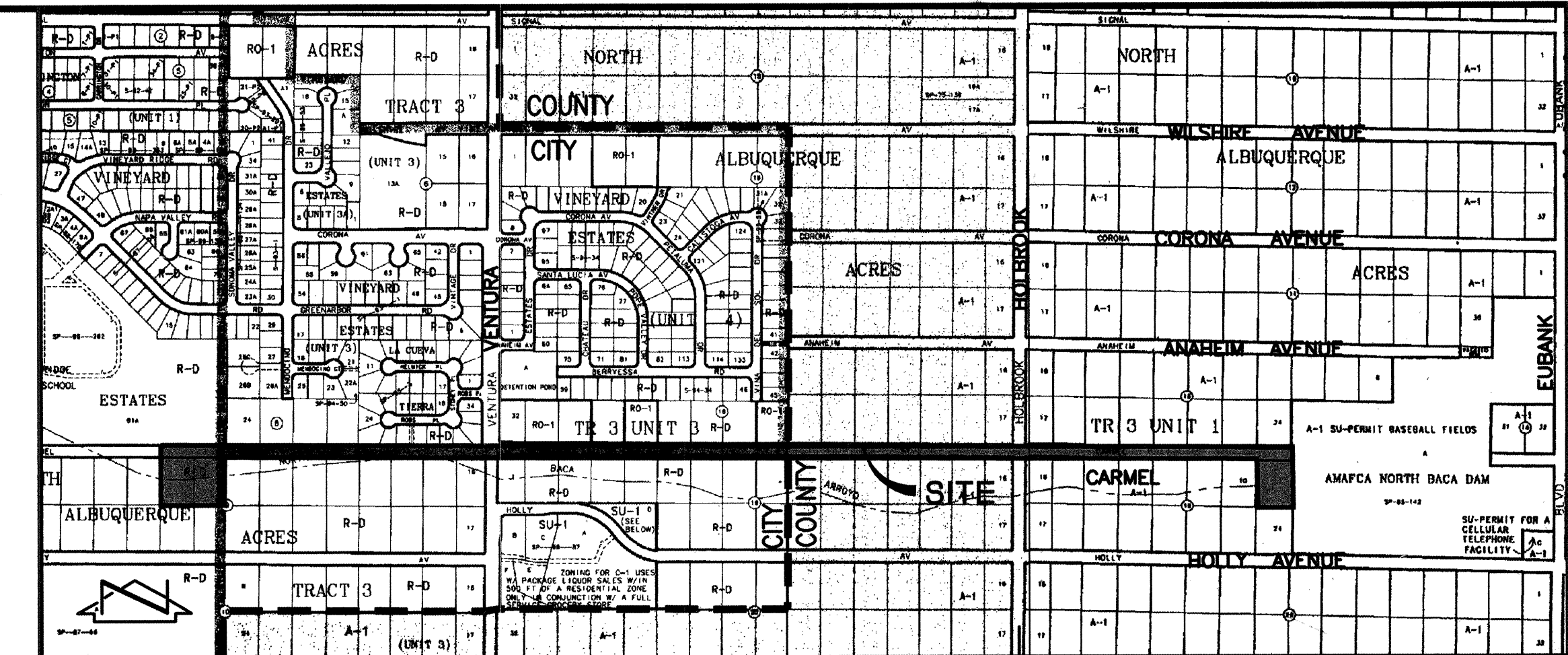
amafca

## CONSTRUCTION PLANS for

# NORTH DOMINGO BACA ARROYO/ CARMEL AVENUE N.E. PUBLIC STORM DRAIN EXTENSION ALBUQUERQUE, NEW MEXICO OCTOBER, 2002

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SCANNED BY  
MESA REPRO

PROJECT REFERENCES

| TITLE                                                                                                                                               | AUTHOR | DATE     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|
| NORTH AND SOUTH DOMINGO BACA ARROYO AND PASEO DEL NORTE CORRIDOR DRAINAGE MANAGEMENT PLAN                                                           | R.T.I. | 12/91    |
| MASTER DRAINAGE PLAN-NORTH ARROYO DE DOMINGO BACA (ALIGNMENT STUDY) FOR APS NORTHEAST HEIGHTS MIDDLE SCHOOL                                         | JMA    | 02/28/96 |
| NORTH DOMINGO BACA ARROYO--SOIL CEMENT CHANNEL WITHIN WINDOW G                                                                                      | JMA    | 12/96    |
| WINDOW G MASTER DRAINAGE PLAN                                                                                                                       | JMA    | 1/97     |
| WINDOW G L.O.M.R. FEMA # 98-06-990P                                                                                                                 | JMA    | 02/98    |
| HYDROLOGY REPORT FOR NORTH ALBUQUERQUE ACRES/SANDIA HEIGHTS DRAINAGE STUDY PHASES I AND II PREPARED FOR BERNALILLO COUNTY PUBLIC WORKS DIVISION     | R.T.I. | 11/98    |
| INFRASTRUCTURE PLAN-PHASE II, NORTH ALBUQUERQUE ACRES AND SANDIA HEIGHTS--SOUTH DRAINAGE STUDY PREPARED FOR BERNALILLO COUNTY PUBLIC WORKS DIVISION | R.T.I. | 11/99    |
| NORTH DOMINGO BACA ARROYO WINDOW K EXTENSION                                                                                                        | JMA    | 04/01    |
| FINAL NORTH ALBUQUERQUE ACRES MASTER DRAINAGE PLAN PREPARED FOR THE CITY OF ALBUQUERQUE                                                             | R.T.I. | 10/98    |
| NORTH DOMINGO BACA ARROYO WINDOW K EXTENSION LOMR (APPROVED 7/16/2002) FEMA CASE NO. 02-06-1261P                                                    | JMA    | 02/02    |
| DESERT RIDGE PLACE GRADING AND DRAINAGE REPORT FOR PRELIMINARY PLAT, FINAL PLAT, VACATION AND ROUGH GRADING APPROVALS                               | JMA    | 07/02    |
| NORTH DOMINGO BACA ARROYO CARMEL AVE. N.E. STORM DRAIN EXTENSION CLOMR FEMA CASE NO. 02-06-2145R                                                    | JMA    | 06/02    |

GENERAL NOTES:

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, BE CONSTRUCTED IN ACCORDANCE WITH THE "NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION," 1994 EDITION (NMSHTD SPECS), EXCEPT FOR WORK WITHIN CARMEL AVENUE N.E. PUBLIC RIGHT-OF-WAY WHICH IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS-- PUBLIC WORKS CONSTRUCTION-1986 -- UPDATE NO. 6 (CITY SPECS). TEE PIPE MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" PUBLISHED BY THE NEW MEXICO CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION (N.M.A.P.W.A.), SPECIFICATION 920.4.5 AND STANDARD DETAIL DRAWING 213.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
- IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SAID EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED REASONABLE INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION MAY NOT BE CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES. NO ADDITIONAL PAYMENT WILL BE MADE FOR POTHOLES EXISTING UTILITIES.
- SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
- THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET OR EXISTING STORM DRAIN SYSTEM.
- THE CONTRACTOR SHALL SECURE A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY THE CITY SURVEYOR NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED.
- ALL WORK WITHIN THE CITY OR COUNTY RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF ALBUQUERQUE OR BERNALILLO COUNTY STANDARDS, RESPECTIVELY.
- IF THE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK, AND/OR PAVING IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. WHEN ABUTTING NEW PAVEMENT TO EXISTING, THE CONTRACTOR SHALL CUT BACK THE EXISTING PAVING TO A STRAIGHT LINE IN ORDER TO REMOVE ANY BROKEN OR CRACKED PAVEMENT. CURB AND GUTTER AND/OR PAVEMENT SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT AND WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL (CONTAMINATED OR OTHERWISE), ASPHALTIC PAVING, CONCRETE PAVING, ETC. SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE REGULATIONS. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND IN HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT SHALL BE MADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY OBTAINING THE REQUIRED COMPACTION. THE CONTRACTOR SHALL SELECT AND USE METHODS WHICH SHALL NOT BE INJURIOUS OR DAMAGING TO THE EXISTING FACILITIES AND STRUCTURES WHICH SURROUND THE WORK AREAS.
- THE CONTRACTOR SHALL CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS IN ORDER TO PRESERVE THE EXISTING IMPROVEMENTS AND SO AS NOT TO INTERFERE WITH THE OPERATIONS OF THE EXISTING FACILITIES.
- TACK COAT REQUIREMENTS SHALL BE DETERMINED DURING CONSTRUCTION BY THE PROJECT MANAGER.
- ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- CONTRACTOR SHALL COORDINATE WITH THE WATER SYSTEM DIVISION FOR THE EXECUTION OF THE VALVE SHUT OFF PLAN, NOT LESS THAN SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT THE EXISTING PUBLIC WATER UTILITIES. ONLY WATER SYSTEM DIVISION PERSONNEL SHALL OPERATE EXISTING VALVES. REFER TO SECTION 18 OF THE CITY OF ALBUQUERQUE SPECIFICATIONS.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. CONTRACTOR MUST REFER TO SECTION 19 OF THE C.O.A. STANDARD SPECIFICATION FOR TRAFFIC CONTROL.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED STRIPING BY CONTRACTOR TO EXISTING LOCATION OR AS INDICATED BY THIS PLAN SET.
- CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- FOR STORM DRAIN CONSTRUCTION, ROP PIPE JOINTS SHALL NOT BE GROUDED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUDED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.
- ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY BE IT PRIVATE OR CITY OWNED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENT NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
- REFER TO PROJECT NOTES AT RIGHT FOR SPECIFIC PROJECT REQUIREMENTS

PROJECT NOTES:

- THE DESIGN OF THIS PROJECT IS BASED UPON THE DRAINAGE PLAN TITLED "NORTH DOMINGO BACA ARROYO CARMEL AVENUE N.E. STORM DRAIN EXTENSION" PREPARED BY JEFF MORTENSEN & ASSOCIATES, INC., ENGINEER'S STAMP DATED 06/14/2002
- THE C.L.O.M.R. FOR THIS PROJECT (CASE NO. 02-06-2145R) WAS IN F.E.M.A. REVIEW AT THE TIME OF PLAN PREPARATION.
- THE CONTRACTOR SHALL LIMIT ITS ACTIVITIES TO THE AREA SHOWN ON THE SITE PLAN. THE CONTRACTOR SHALL NOT UTILIZE ADJACENT PROPERTIES FOR CONSTRUCTION ACTIVITIES UNLESS PRIOR AUTHORIZATION IS RECEIVED FROM THE OWNER(S) OF SAID PROPERTIES.
- ALL BOULDERS (2' DIAMETER OR LARGER) EXCAVATED DURING THIS PROJECT SHALL BE STOCKPILED AT THE CITY PARK SITE (LOT 24, BLOCK 8, N.A.A.) AS DIRECTED BY THE PROJECT MANAGER. THIS SHALL BE CONSIDERED AN INCIDENTAL ITEM.
- ALL EXCESS CLEAN FILL MATERIAL GENERATED BY THIS PROJECT SHALL BE PLACED AND COMPACTED WITHIN THE EXISTING APS DESERT RIDGE MIDDLE SCHOOL DETENTION POND AS DIRECTED BY THE PROJECT MANAGER.
- UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXPENSE OF REPLACING ALL PROPERTY CORNERS WHICH MAY BE DAMAGED OR DESTROYED IN THE COURSE OF CONSTRUCTION. PROPERTY CORNER REPLACEMENT SHALL BE PERFORMED BY A PROFESSIONAL SURVEYOR LICENSED UNDER THE LAWS OF THE STATE OF NEW MEXICO.
- MATERIALS TESTING WITHIN AMAFCA PROPERTY AND CARMEL AVENUE RIGHT OF WAY WILL BE PERFORMED IN ACCORDANCE WITH SECTION 106 OF THE NMSHTD STANDARD SPECIFICATIONS AND THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS, RESPECTIVELY.
- BECAUSE THIS PROJECT LIES WITHIN EXISTING FLOODPLAIN, ALL FILL SHALL BE COMPACTED TO A MINIMUM DRY DENSITY OF 95% (A.S.T.M. D-1557).
- A SEPARATE CONTRACT FOR GRADING AND CONSTRUCTION OF DESERT RIDGE PLACE WILL BE EXECUTED FOR THE SAME TIME FRAME AS THE GRADING AND CONSTRUCTION OF THIS PROJECT. IN SOME CASES, THE INTERIM DIFFERENCE BETWEEN PROPOSED AND EXISTING GRADE AT THE COMMON PROPERTY LINE WILL BE AS MUCH AS TWO (2) VERTICAL FEET. THE CONTRACTOR FOR THIS PROJECT SHALL COORDINATE COMMON LOT LINE GRADING WITH THE ADJACENT CONTRACTOR TO AVOID LEAVING THE COMPLETED WORK WITH VERTICAL CUTS AND/OR FILLS. THE MAXIMUM UNSUPPORTED SLOPE SHALL BE 3:1.
- THE AIR POLLUTION CONTROL REGULATIONS OF THE ALBUQUERQUE-BERNALILLO COUNTY AIR QUALITY CONTROL BOARD (505)788-2800 LIMIT EMISSION OF PARTICULATE MATTER AND THE USE OF COLD BACK ASPHALT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CLARIFY THESE RESTRICTIONS WITH THE ENVIRONMENTAL HEALTH DEPARTMENT PRIOR TO SUBMITTAL OF BIDS TO AVOID CONFLICTS WITH THE REGULATIONS. ALL REQUIRED PERMITS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY, INCLUDING THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEMS (NPDES) PROGRAM. FOR INFORMATION, CONTACT THE EPA REGION 6 HOTLINE AT 1-800-245-6510.
- THE CONTRACTOR IS RESPONSIBLE FOR FILING A "NOTICE OF INTENT" UNDER THE "GENERAL PERMIT" FOR ALL STORM WATER DRAINAGE ACTIVITY DURING PROJECT CONSTRUCTION. SEE SECTION 603 OF THE NMSHTD STANDARD SPECIFICATIONS.
- NOISE SUPPRESSION DEVICES SHALL BE KEPT IN WORKING ORDER ON ALL EQUIPMENT THROUGHOUT THE COURSE OF CONSTRUCTION IN ACCORDANCE WITH ALL FEDERAL AND STATE REGULATIONS AND CITY ORDINANCES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPORTING AND CLEANUP OF SPILLS ASSOCIATED WITH PROJECT CONSTRUCTION AND SHALL REPORT AND RESPOND TO SPILLS OF HAZARDOUS MATERIALS SUCH AS GASOLINE, DIESEL, MOTOR OILS, SOLVENTS, CHEMICALS, TOXIC AND CORROSIVE SUBSTANCES, ETC. WHICH MAY BE A THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING DISCOVERIES OF PAST SPILLS AND OF CURRENT SPILLS NOT ASSOCIATED WITH CONSTRUCTION. SPILLS SHALL BE REPORTED IMMEDIATELY TO THE NEW MEXICO ENVIRONMENT DEPARTMENT 24-HOUR REPORTING NUMBER (505-827-9329).
- A GEOTECHNICAL INVESTIGATION WAS NOT PERFORMED FOR THIS PROJECT. CONTRACTORS MAY AND ARE ENCOURAGED TO PERFORM THEIR OWN LABORATORY TESTINGS TO OBTAIN ALL INFORMATION NECESSARY FOR THEIR BIDDING PURPOSES.
- IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO SECURE AND SUPPLY WATER FOR THE PROJECT. THE COST ASSOCIATED WILL BE INCIDENTAL TO COMPLETION OF THE PROJECT AND NO SEPARATE PAYMENT WILL BE MADE THEREFOR.
- THE USE OF HEAVY ROLLING EQUIPMENT AND/OR VIBRATORY ROLLERS TO OBTAIN THE REQUIRED DENSITIES IN EMBANKMENT, EMBANKMENT FOUNDATION, MISCELLANEOUS FILLS & SUBGRADE WILL NOT BE PERMITTED IN AREAS WHERE THE USE OF SUCH EQUIPMENT MAY DAMAGE UNREINFORCED MASONRY STRUCTURES, DWELLINGS, UNDERGROUND UTILITY FACILITIES OR OTHER PERMANENT INSTALLATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY OBTAINING THE REQUIRED COMPACTION. THE CONTRACTOR SHALL SELECT AND USE METHODS WHICH SHALL NOT BE INJURIOUS OR DAMAGING TO THE EXISTING FACILITIES AND STRUCTURES WHICH SURROUND THE WORK AREAS.
- THE CONTRACTOR SHALL NOT DAMAGE OR OTHERWISE DISTURB THE EXISTING LA CUEVA TIERRA PRIVATE SCOUR/RETAINING/YARD WALL LOCATED BETWEEN APPROXIMATE STATIONS 29+80 AND 36+00 (22.5 FT. LEFT). THE USE OF HEAVY ROLLING EQUIPMENT AND/OR VIBRATORY ROLLERS TO OBTAIN THE REQUIRED DENSITIES IN BACKFILL COMPACTION AND FILL CONSTRUCTION WILL NOT BE PERMITTED IN THE PROXIMITY OF THIS WALL. THE CONTRACTOR SHALL NOT OPEN MORE THAN 24 LINEAR FEET OF TRENCH AT ONE TIME FROM STA 29+80 TO STA 36+00. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY OBTAINING THE REQUIRED COMPACTION AND SHALL SELECT AND USE TRENCHING AND CONSTRUCTION METHODS THAT SHALL NOT BE INJURIOUS OR DAMAGING TO ALL EXISTING STRUCTURES.
- AS DESCRIBED IN SECTION 105 OF THE SUPPLEMENTAL GENERAL PROVISIONS, THE CONTRACTOR SHALL OBTAIN AND PAY FOR THE SERVICES OF A PROFESSIONAL SURVEYOR LICENSED UNDER THE LAWS OF THE STATE OF NEW MEXICO, TO PERFORM WALL MONITORING SURVEYS OF THE EXISTING LA CUEVA TIERRA PRIVATE SCOUR/RETAINING/YARD WALL LOCATED BETWEEN APPROXIMATE STATIONS 29+80 AND 36+00. THE MONITORING SURVEYS SHALL BE PERFORMED BEFORE, DURING, AND AFTER ADJACENT CONSTRUCTION ACTIVITIES TO DEMONSTRATE COMPLIANCE WITH PROJECT NOTE 18 ABOVE.
- THE CONTRACTOR SHALL NOT EXCEED LEGAL LOADS ON ROADWAYS.
- SEE SHEETS 17-20 FOR TRAFFIC CONTROL PLANS AND NOTES.
- FILL MATERIALS FROM EXCAVATION OR BORROW THAT REQUIRE MORE THAN ONE HANDLING PRIOR TO FINAL PLACEMENT, INCLUDING STOCKPILING AND BLENDING TO MEET GRADATION REQUIREMENTS OR STOCKPILING FOR LATER DISPOSAL, WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNIT PRICE FOR UNCLASSIFIED EXCAVATION. NO SEPARATE PAYMENT SHALL BE MADE FOR FILLING, BLENDING OR MULTIPLE HANDLING AND FINAL PAYMENT SHALL BE MADE ON THE BASIS OF QUANTITIES REMOVED FROM THE ORIGINAL LOCATION WITH NO ADJUSTMENTS FOR SHRINK OR SWELL.
- WATERING, AS REQUIRED FOR CONSTRUCTION AND DUST CONTROL, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT OR PAYMENT SHALL BE MADE THEREFORE. CONSTRUCTION AREAS SHALL BE WATERED WITH EQUIPMENT FOR DUST POLLUTION ABATEMENT AS DIRECTED BY THE PROJECT MANAGER. THE CONTRACTOR, SHALL BE RESPONSIBLE FOR LOCATING AND SUPPLYING WATER AS REQUIRED FOR CONSTRUCTION PURPOSES.
- LIQUIDATED DAMAGES (TRAFFIC CONTROL): A FULL CLOSURE OF VENTURA STREET NE BETWEEN ANAHEIM AVE NE AND HOLLY AVE NE WILL BE PERMITTED FOR A MAXIMUM OF 14 CONSECUTIVE CALENDAR DAYS AND A FULL CLOSURE HOLBROOK STREET NE WILL BE PERMITTED FOR A MAXIMUM OF 7 CONSECUTIVE CALENDAR DAYS. THE CONTRACTOR AGREES TO PAY AS LIQUIDATED DAMAGES THE AMOUNT OF SEVEN HUNDRED AND FIFTY DOLLARS (\$750.00) PER CALENDAR DAY FOR EACH DAY BEYOND THE ALLOWED TIME THAT CONTINUOUS TWO-WAY TRAFFIC IS NOT PROVIDED WITHIN VENTURA STREET NE, AND THE AMOUNT OF TWO HUNDRED AND FIFTY DOLLARS (\$250.00) PER CALENDAR DAY FOR EACH DAY BEYOND THE ALLOWED TIME THAT CONTINUOUS TWO-WAY TRAFFIC IS NOT PROVIDED WITHIN HOLBROOK STREET NE REPRESENTING MONETARY DAMAGE DUE TO LOSS OF TIME AND ADDITIONAL VEHICLE MILEAGE. LIQUIDATED DAMAGES PERTAINING TO TRAFFIC CONTROL ITEMS ARE ADDITIVE TO THOSE PERTAINING TO CONSTRUCTION TIME.
- THE CONTRACTOR SHALL NOT PARK OR STORE EQUIPMENT OR MATERIALS WITHIN EXISTING ROADWAYS.
- THE CONTRACTOR SHALL POTHOLE THE EXISTING 2" POLYETHYLENE GAS LINE AT APPROX. STA 74+40 TO 74+75 WITHIN 10 DAYS OF RECEIVING "NOTICE TO PROCEED" AND SHALL REPORT THE TOP OF PIPE ELEVATION TO THE PROJECT MANAGER TO DETERMINE IF RELOCATION OF THE GAS LINE OR REDESIGN OF THE STORM DRAIN WILL BE REQUIRED. THIS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO SEPARATE PAYMENT SHALL BE MADE.

RECORD DRAWING

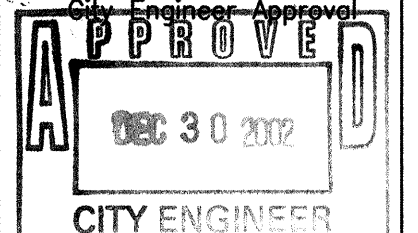
SEE SHEET 1 FOR CERT.



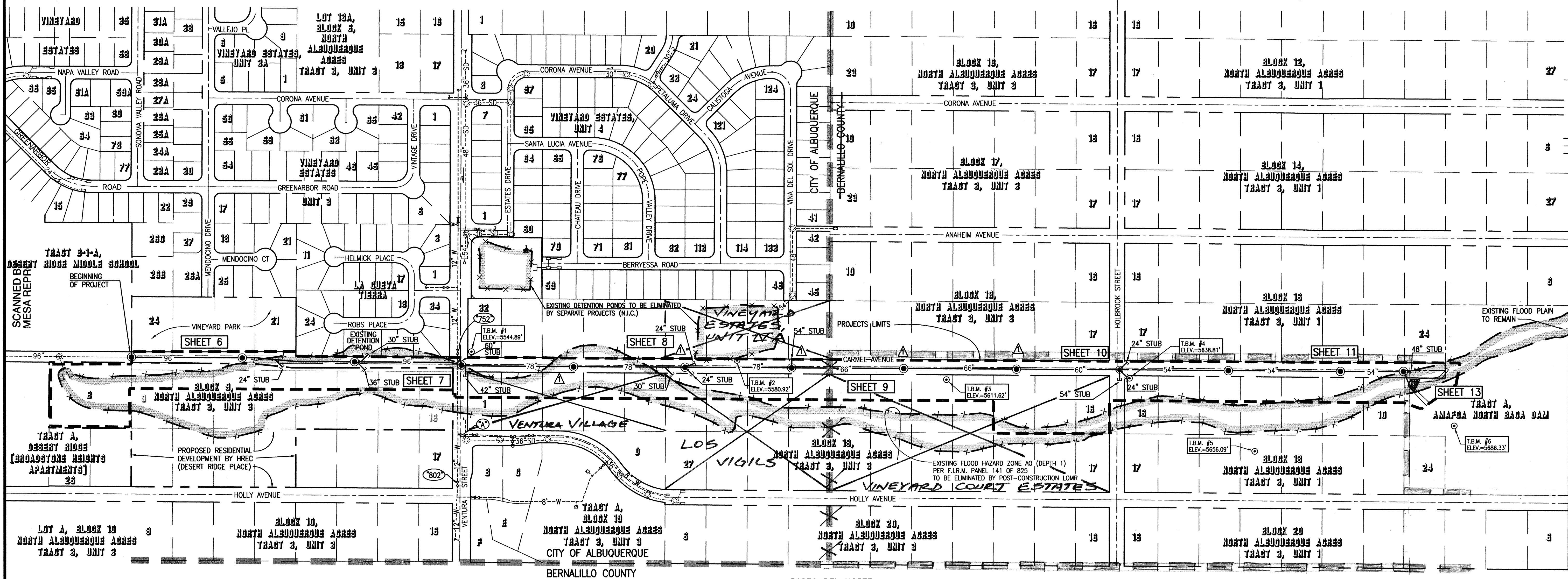
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JEFF MORTENSEN & ASSOCIATES, INC.  
600-B MIDWAY PARK BLVD. NE  
ALBUQUERQUE, NM 87109  
ENGINEERS & SURVEYORS (505) 345-4258  
FAX 505 345-4254 E-MAIL jmorris@jma-inc.com

2002.053.3

|                                                                                                                                             |                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING DIVISION                                                                      |                                                                                                                                  |
| TITLE: NORTH DOMINGO BACA ARROYO/<br>CARMEL AVENUE N.E. STORM DRAIN EXTENSION<br>GENERAL NOTES, PROJECT NOTES, AND PROJECT REFERENCES       |                                                                                                                                  |
| Design/Review Committee<br><br>DESIGN REVIEW COMMITTEE | City Engineer Approval<br><br>CITY ENGINEER |
| City Project No. 693481                                                                                                                     | Zone Map No. C20/21                                                                                                              |
| Sheet 2                                                                                                                                     | Of 20                                                                                                                            |





1. AT A MINIMUM, THE FOLLOWING VALVES SHALL BE CLOSED TO FACILITATE THE PROPOSED VENTURA STREET SHUTOFF AND CONNECTION:

- VALVE "802"
- VALVE "752"
- VALVE "A"

2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO WATER SYSTEMS (857-8250) A DETAILED CONSTRUCTION SCHEDULE OF WORK ANTICIPATED TO REQUIRE WATER VALVE SHUTOFFS. THE CONTRACTOR SHALL MAINTAIN WEEKLY CONTACT WITH WATER SYSTEMS AS REQUIRED TO UPDATE AND/OR VERIFY THE SCHEDULE.

3. WATER SYSTEMS PERSONNEL SHALL PERFORM ALL SHUTOFFS. THE CONTRACTOR SHALL NOT OPERATE ANY VALVES THAT MAY AFFECT SYSTEM OPERATION.

4. THE MAXIMUM DURATION OF SHUTOFF FOR THE 12" VENTURA LINE WILL BE 5 DAYS UNLESS OTHERWISE APPROVED BY WATER SYSTEMS. THIS SHUTOFF WILL NOT BE PERMITTED ON A WEEKEND.

5. WATER SYSTEMS SHALL NOT BE RESPONSIBLE FOR ANY PROJECT DELAYS ATTRIBUTABLE TO THE SCHEDULING OF WATER VALVE SHUTOFFS.

6. THE CONTRACTOR SHALL REQUEST A WATER SHUTOFF IN WRITING, A MINIMUM OF SEVEN (7) DAYS IN ADVANCE PER STANDARD CITY OF ALBUQUERQUE PROCEDURES.

7. WITHIN FIVE (5) DAYS AFTER RECEIPT OF CONTRACTOR'S SHUTOFF REQUEST, TRIAL SHUTOFFS WILL BE CONDUCTED. CITY TO FURNISH LABOR AND APPURTENANCES NECESSARY TO VERIFY COMPLETENESS OF SHUTOFFS.

8. THE CONTRACTOR SHALL HAVE ALL FITTINGS, MATERIALS AND EQUIPMENT ON SITE PRIOR TO VALVE SHUTOFF. ALL EXCAVATION SHALL BE COMPLETE EXCEPT AS NECESSARY TO MAINTAIN SAFE SYSTEM OPERATION WHILE UNDER PRESSURE.

9. THE CONTRACTOR SHALL PROVIDE ALL RESTRAINTS AND THRUST BLOCKS NECESSARY TO EFFECT ALL NECESSARY SHUTOFFS AND CONNECTIONS.

10. EXISTING WATER VALVE AND WATER LINE INFORMATION OBTAINED FROM CITY OF ALBUQUERQUE FACILITIES MAP C-20, GIS WEB PAGE, AND AS-BUILT DRAWINGS FOR CITY PROJECT #60198.

11. THE VENTURA STREET 12" WATER LINE SHUTOFF AS SHOWN HEREON WILL NOT TAKE ANY HYDRANTS OR WATER SERVICES OUT OF SERVICE, BUT MAY CAUSE A REDUCTION IN PRESSURE TO AREA HOMES AND BUSINESSES, PARTICULARLY EAST OF VENTURA STREET N.E.. DURING THE SHUTOFF, THE WATER LINES WITHIN AND EAST OF MENDOCINO DRIVE WILL BE SERVED BY THE EXISTING 8" LINE IN GREENARBOR ROAD AND THE EXISTING 12" LINE IN ASHTON PLACE N.E., BOTH OF WHICH ARE CONNECTED TO THE 18" MAIN IN BARSTOW STREET N.E.. THE WATER LINES WITHIN LA CUEVA TIERRA AND VINEYARD ESTATES UNIT 4 CONNECT TO THE VENTURA LINE WHICH WILL BE SERVED BY THE EXISTING 8" LINE IN CORONA AVE N.E.

ELEVATION =

EXISTING FLOOD PLAIN LIMITS

EXISTING FLOOD PLAIN TO BE ELIMINATED  
BY POST-CONSTRUCTION LOWMR  
CENTERLINE

BOUNDARY/ R.O.W.  
LOT LINE

PROPOSED STORM DRAIN MANHOLE

EXISTING STORM DRAIN MANHOLE

PROPOSED STORM DRAIN

EXISTING STORM DRAIN

EXISTING WATER LINE

MUNICIPAL LIMITS

PROJECT LIMITS

JEFF MORTENSEN & ASSOCIATES, INC.  
☐ 6010-B MIDWAY PARK BLVD. N.E.  
☐ ALBUQUERQUE ☐ NEW MEXICO 87109  
☐ ENGINEERS ☐ SURVEYORS (505) 345-4250  
☐ FAX: 505 345-4254 ☐ Email: jmainc@swcp.com

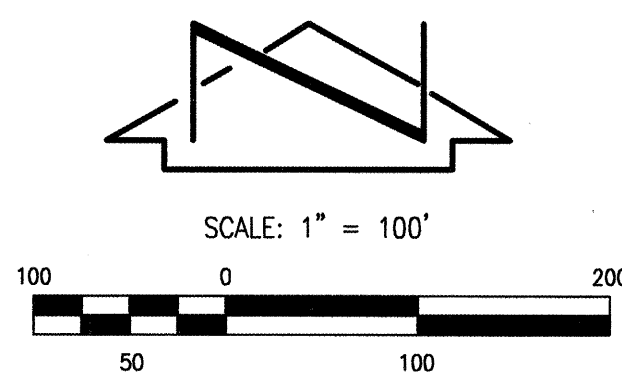
|                                                                                                                  |  |                                                                                                                 |  |                                                                                                             |  |
|------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------|--|
| Design Review Committee<br> |  | City Engineer Approval<br> |  | Last Design Update<br> |  |
| City Project No. 693481                                                                                          |  | Zone Map No. C20/21                                                                                             |  | Sheet 3 Of 20                                                                                               |  |

SEE SHEET 1 FOR CERT

|            |                          |            |            |
|------------|--------------------------|------------|------------|
| File Path: | E:\DATA\20014\2001.0597\ | Plot Date: | 12-17-2002 |
| File Name: | 10597SPG.DWG             | Plot Time: | 09:38 am   |



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MESA REPRO



PLATTING NOTE:

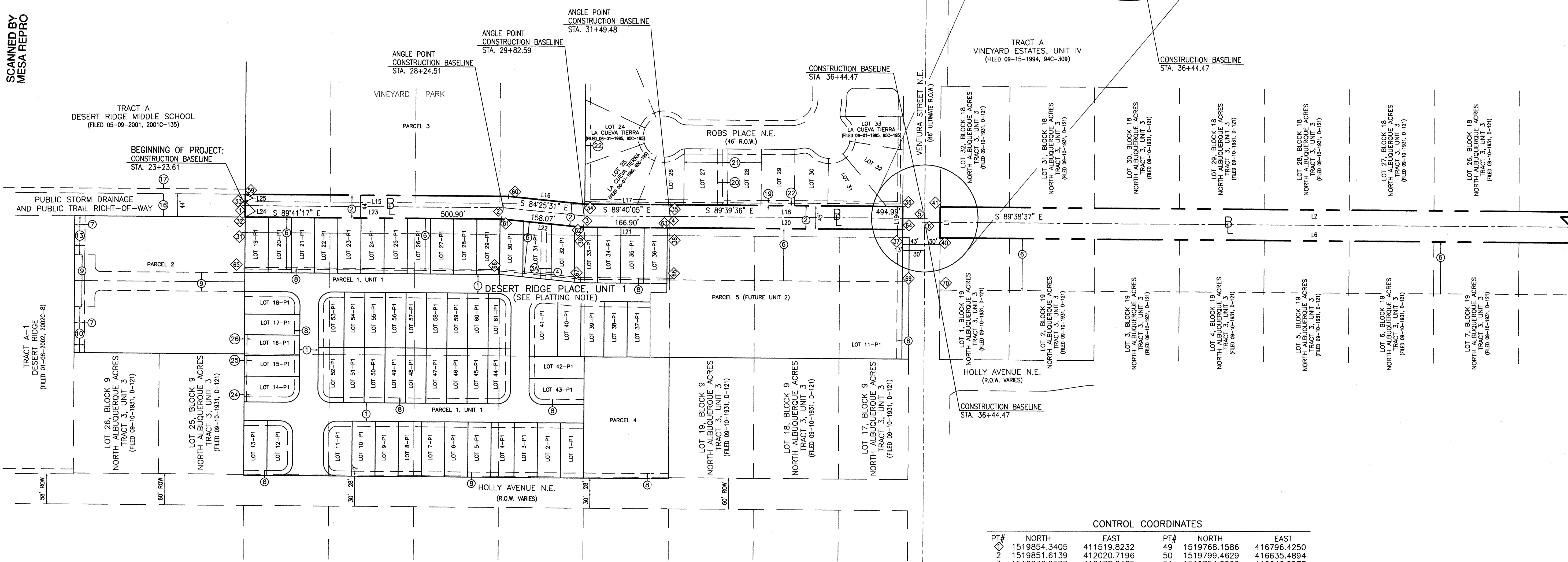
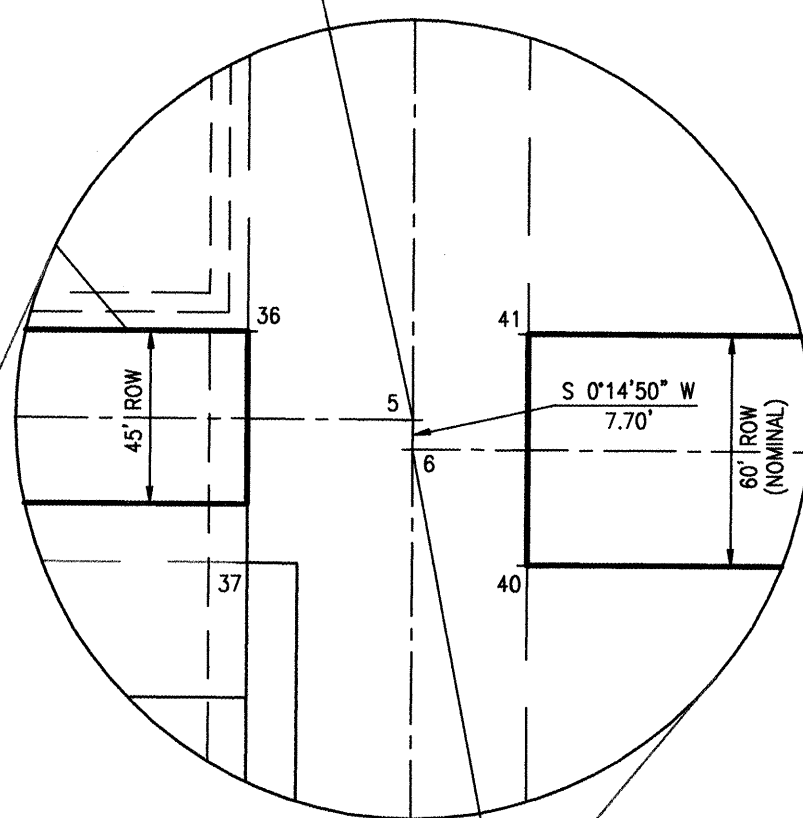
THE PLATTING CONFIGURATION OF DESERT RIDGE PLACE, UNIT 1 IS BASED UPON THE PROPOSED FINAL PLAT WHICH HAS NOT BEEN APPROVED AT THE TIME OF THIS PLAN PREPARATION. THIS CONFIGURATION MAY BE SUBJECT TO CHANGE.

BOUNDARY TABLES

| LINE | DIRECTION     | DISTANCE | LINE | DIRECTION     | DISTANCE |
|------|---------------|----------|------|---------------|----------|
| L1   | N 00°13'51" E | 60.00'   | L13  | N 79°38'33" E | 45.72'   |
| L2   | S 89°38'37" E | 1453.75' | L14  | N 39°24'23" E | 92.27'   |
| L3   | S 89°39'24" E | 1124.71' | L15  | S 89°39'10" E | 510.79'  |
| L4   | S 00°06'30" W | 60.00'   | L16  | S 84°25'31" E | 149.21'  |
| L5   | N 89°39'24" W | 1124.63' | L17  | S 89°40'05" E | 165.87'  |
| L6   | N 89°38'37" W | 1453.96' | L18  | S 89°39'36" E | 451.95'  |
| L7   | N 00°06'43" E | 60.07'   | L19  | S 00°14'50" W | 45.00'   |
| L8   | S 89°31'28" E | 1288.34' | L20  | N 89°39'36" W | 452.02'  |
| L9   | S 00°20'41" W | 59.81'   | L21  | N 89°40'05" W | 167.93'  |
| L10  | N 89°32'10" W | 1288.10' | L22  | N 84°25'31" W | 160.19'  |
| L11  | S 20°03'35" E | 48.20'   | L23  | N 89°39'10" W | 497.75'  |
| L12  | S 65°03'35" E | 40.44'   | L24  | N 00°16'48" E | 30.00'   |
|      |               |          | L25  | N 00°13'41" E | 14.00'   |

| CURVE | RADIUS | LENGTH | CHORD BEARING | CHORD  | DELTA     |
|-------|--------|--------|---------------|--------|-----------|
| C1    | 35.00' | 21.56' | S 82°42'31" E | 21.22' | 35°17'53" |
| C2    | 75.00' | 52.67' | N 59°31'28" E | 51.59' | 40°14'10" |

CONSTRUCTION BASELINE  
STA. 36+44.47



KEYED NOTES:

- PRIVATE ACCESS, PRIVATE STORM DRAINAGE, AND CITY OF ALBUQUERQUE PUBLIC WATERLINE AND PUBLIC SANITARY SEWER EASEMENTS GRANTED BY PLAT 2002C-355
- PUBLIC (CITY OF ALBUQUERQUE) STORM DRAINAGE RIGHT-OF-WAY DEDICATED BY PLAT 2002C-355
- 20' PRIVATE STORM DRAINAGE EASEMENT GRANTED BY PLAT 2002C-355
- NOT USED
- 10' PRIVATE TRAIL ACCESS EASEMENT GRANTED BY PLAT 2002C-355
- NOT USED
- NOT USED
- TEMPORARY CONSTRUCTION LICENSE BY SEPARATE DOCUMENT. HELD BY AMAFCA (LICENSEE) TO BE TERMINATED UPON COMPLETION OF THIS PROJECT (UNRECORDED).
- 20' PUBLIC (CITY OF ALBUQUERQUE) STORM DRAINAGE EASEMENT GRANTED BY PLAT 2002C-355
- 10' PUBLIC UTILITY EASEMENT GRANTED BY PLAT 2002C-355
- PRIVATE ACCESS AND PRIVATE STORM DRAINAGE EASEMENT GRANTED BY PLAT 2002C-355
- 20' PUBLIC SANITARY SEWER EASEMENT GRANTED BY PLAT 2002C-355
- PUBLIC (AMAFCA) DRAINAGE EASEMENT GRANTED BY DOCUMENT FILED 11-19-2002, BOOK A45, PAGE 1565, DOC. #2002151975
- PUBLIC ROAD EASEMENT GRANTED BY DOCUMENT FILED 11-18-2002, BOOK A45, PAGE 600, DOC. #2002151009
- 20' PRIVATE PEDESTRIAN ACCESS EASEMENTS GRANTED BY PLAT 2002C-355
- NOT USED
- NOT USED
- PUBLIC (CITY OF ALBUQUERQUE) STORM DRAINAGE AND PUBLIC TRAIL RIGHT-OF-WAY DEDICATED BY PLAT 2001C-135
- 10' PUBLIC UTILITY EASEMENT GRANTED BY PLAT 2001C-135
- 10' PUBLIC UTILITY EASEMENT GRANTED BY PLAT 93C-140
- 5' FLOODWALL EASEMENT GRANTED BY PLAT 95C-195
- 20' DRAINAGE EASEMENT GRANTED BY PLAT 95C-195
- TEMPORARY DRAINAGE EASEMENT GRANTED BY PLAT 95C-195
- 10' PUBLIC UTILITY EASEMENT GRANTED BY PLAT 95C-195
- NOT USED
- 5' PRIVATE DRAINAGE EASEMENT GRANTED BY PLAT 2002C-355
- 5' PRIVATE DRAINAGE EASEMENT GRANTED BY PLAT 2002C-355
- 5' PRIVATE DRAINAGE EASEMENT GRANTED BY PLAT 2002C-355

CONTROL COORDINATES

| PT# | NORTH        | EAST        | PT# | NORTH        | EAST        |
|-----|--------------|-------------|-----|--------------|-------------|
| 1   | 1519854.3405 | 411519.8232 | 49  | 1519768.1586 | 416796.4250 |
| 2   | 1519851.6139 | 412020.7196 | 50  | 1519799.4629 | 416635.4894 |
| 3   | 1519836.2577 | 412178.0465 | 51  | 1519754.2292 | 416646.2573 |
| 4   | 1519835.2908 | 412344.9394 | 52  | 1519737.1768 | 416682.9259 |
| 5   | 1519832.3523 | 412839.9172 | 53  | 1519768.9130 | 416697.6845 |
| 6   | 1519824.6554 | 412839.8639 | 54  | 1519734.4833 | 416703.9772 |
| 7   | 1519815.4237 | 414323.7908 | 55  | 1519742.7032 | 416748.9513 |
| 8   | 1519808.5069 | 415478.2749 | 56  | 1519816.4811 | 416735.4669 |
| 9   | 1519808.8344 | 415478.2756 | 57  | 1519768.8698 | 416793.4166 |
| 10  | 1519798.1581 | 416796.6055 | 58  | 1519840.1622 | 416851.9902 |
| 11  | 1519802.3411 | 41519.5735  | 59  | 1519876.3404 | 411519.9225 |
| 12  | 1519832.3408 | 41519.7201  | 60  | 1519873.2460 | 412030.7076 |
| 13  | 1519862.3404 | 41519.8667  | 61  | 1519829.3254 | 412017.4573 |
| 14  | 1519858.7514 | 412179.2070 | 62  | 1519813.7641 | 412176.8860 |
| 15  | 1519857.7904 | 412345.0730 | 63  | 1519812.7912 | 412344.8091 |
| 16  | 1519855.1074 | 412797.0150 | 64  | 1519810.1078 | 412796.8208 |
| 17  | 1519795.1080 | 412796.7560 | 65  | 1519732.3419 | 411519.2316 |
| 18  | 1519797.7914 | 412344.7211 | 66  | 1519729.3549 | 412012.2864 |
| 19  | 1519798.7524 | 412178.8594 | 67  | 1519713.7923 | 412171.7282 |
| 20  | 1519794.4695 | 412869.6766 | 68  | 1519712.7929 | 412344.2226 |
| 21  | 1519854.4691 | 412869.9183 | 69  | 1519710.1086 | 412796.3890 |
| 22  | 1519845.4251 | 414323.6382 | 70  | 1519694.4701 | 412869.2779 |
| 23  | 1519838.6868 | 415448.3319 | 71  | 1519685.4261 | 414322.9970 |
| 24  | 1519778.6864 | 415448.2186 | 72  | 1519544.8818 | 415447.6660 |
| 25  | 1519785.4242 | 414323.6076 | 73  | 1519678.5887 | 415508.0843 |
| 26  | 1519778.5897 | 415508.3691 | 74  | 1519669.4918 | 416631.3943 |
| 27  | 1519838.6604 | 415508.4867 | 75  | 1519547.7395 | 414982.1966 |
| 28  | 1519827.9656 | 416796.7848 | 76  | 1519681.4732 | 414982.7739 |

**RECORD DRAWING**  
**SEE SHEET 1 FOR CERT.**

MATCH LINE STA 49+00 - FOR CONTINUATION SEE SHEET 5

| SURVEY INFORMATION                                                                                 |      | BENCH MARKS (NGVD 1929) |                                                                                                                                                                                                                                                                                                                                                                | AS BUILT INFORMATION   |      |
|----------------------------------------------------------------------------------------------------|------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------|
| NO.                                                                                                | DATE | TIME                    | REMARKS                                                                                                                                                                                                                                                                                                                                                        | CONTRACTOR             | DATE |
| 10602                                                                                              | JMA  | 11/01                   | NOTE: THE ELEVATION OF THIS STATION "5-C" IS 5376.78 FEET (NGVD 1929).                                                                                                                                                                                                                                                                                         | CONTRACTOR             | DATE |
| 10592                                                                                              | JMA  | 01/02                   | NOTED TO THE TOP OF A CONCRETE STORM INLET AT THE N.W. CORNER RETURN AT THE INTERSECTION OF VENTURA ST. N.E. AND WAREH. AVE. N.E.                                                                                                                                                                                                                              | INSPECTOR              | DATE |
|                                                                                                    |      |                         | N.E. QUADRANT OF THE INTERSECTION OF VENTURA ST. N.E. AND WAREH. AVE. N.E. BASED ON THE "PROJECT DATUM" IS 5552.84 FEET (NGVD 1929). THE C.O.A. PUBLISHED ELEVATION FOR STA "5-C" IS 5552.71 FEET (NGVD 1929) AND THEREFORE VARIES BY 0.13 FEET VERTICALLY FROM THE "PROJECT DATUM". FOR THE PURPOSES OF THIS PROJECT, USE "PROJECT DATUM" AS DESCRIBED ABOVE. | REVISIONS              | DATE |
| DESIGNER'S SEAL                                                                                    |      | RECORD DRAINAGE         |                                                                                                                                                                                                                                                                                                                                                                | MICRO-FILM INFORMATION |      |
| CHARLES S. CALIA, JR.<br>REGISTERED PROFESSIONAL ENGINEER<br>NO. 11184<br>EXPIRATION DATE 11-20-02 |      | BY<br>JMA               |                                                                                                                                                                                                                                                                                                                                                                | DATE<br>12/12/03       |      |
| DATE<br>08-2002                                                                                    |      | BY<br>JMA               |                                                                                                                                                                                                                                                                                                                                                                | DATE<br>12/12/03       |      |
| DRAWN BY<br>T.N.T.                                                                                 |      | BY<br>JMA               |                                                                                                                                                                                                                                                                                                                                                                | DATE<br>12/12/03       |      |
| CHECKED BY<br>C.C.C.                                                                               |      | BY<br>JMA               |                                                                                                                                                                                                                                                                                                                                                                | DATE<br>12/12/03       |      |

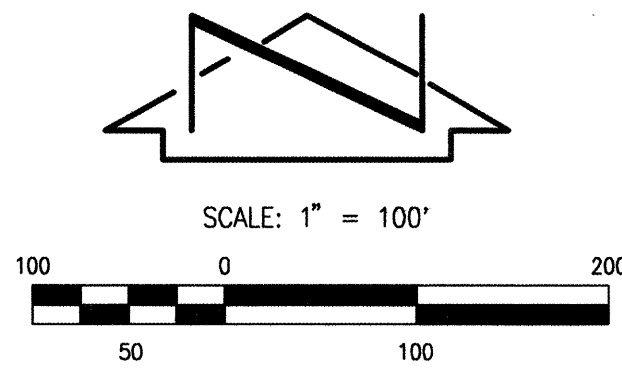
**JMA**  
2001.059.7  
2002.053.3

|                                                                                                                                                             |                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING DEVELOPMENT GROUP                                                                             |                               |
| TITLE:<br><b>NORTH DOMINGO BACA ARROYO/<br/>CARMEL AVENUE N.E. STORM DRAIN EXTENSION BASELINE<br/>AND HORIZONTAL CONTROL PLAN STA 23+23.61 TO STA 49+00</b> |                               |
| Design Review Committee<br>DEC 2 6 2002                                                                                                                     | City Engineer<br>DEC 3 0 2002 |
| City Project No. 693481                                                                                                                                     | Zone Map No. C20/21           |
| Sheet 4                                                                                                                                                     | Of 20                         |



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MATCH LINE STA 49+00 - FOR CONTINUATION SEE SHEET 4



NOTE: SEE SHEET 4 OF 20 FOR KEYED NOTES

ANGLE POINT  
CONSTRUCTION BASELINE  
STA. 51+28.41

CONSTRUCTION BASELINE  
STA. 62+82.91

CONSTRUCTION BASELINE  
STA. 62+82.91

CONSTRUCTION BASELINE  
STA. 62+82.91

CONSTRUCTION BASELINE  
STA. 62+82.91

EQUATION:  
STA. 74+40.16 CONSTRUCTION BASELINE  
= STA. 74+40.16 INLET BASELINE

CONSTRUCTION BASELINE  
STA. 76+01.28

END OF PROJECT:  
INLET BASELINE  
STA. 77+39.32

INLET BASELINE  
PT STA. 76+47.05

INLET BASELINE  
PC STA. 75+94.38

INLET BASELINE  
PT STA. 75+48.66

INLET BASELINE  
PC STA. 75+27.10

#### BOUNDARY TABLES

| LINE | DIRECTION     | DISTANCE |
|------|---------------|----------|
| L1   | N 00°13'51" E | 60.00'   |
| L2   | S 89°38'37" E | 1453.75' |
| L3   | S 89°39'24" E | 1124.71' |
| L4   | S 00°06'30" W | 60.00'   |
| L5   | N 89°39'24" W | 1124.63' |
| L6   | N 89°38'37" W | 1453.96' |
| L7   | N 00°06'43" E | 60.07'   |
| L8   | S 89°31'28" E | 1288.34' |
| L9   | S 00°20'41" W | 59.81'   |
| L10  | N 89°32'10" W | 1288.10' |
| L11  | S 13°23'24" E | 46.50'   |
| L12  | S 65°03'35" E | 40.44'   |
| L13  | N 79°38'33" E | 45.72'   |
| L14  | N 39°24'23" E | 92.27'   |
| L15  | S 89°39'10" E | 510.79'  |
| L16  | S 84°25'31" W | 149.21'  |
| L17  | S 89°40'05" E | 165.87'  |
| L18  | S 89°39'36" E | 451.95'  |
| L19  | S 00°14'50" W | 45.00'   |
| L20  | N 89°39'36" W | 452.02'  |
| L21  | N 89°40'05" W | 167.93'  |
| L22  | N 84°25'31" W | 160.19'  |
| L23  | N 89°39'10" W | 497.75'  |
| L24  | N 00°16'48" E | 30.00'   |
| L25  | N 00°13'41" E | 14.00'   |

| CURVE | RADIUS | LENGTH | CHORD BEARING | CHORD  | DELTA     |
|-------|--------|--------|---------------|--------|-----------|
| C1    | 35.00' | 21.56' | S 82°42'31" E | 21.22' | 35°17'53" |
| C2    | 75.00' | 52.67' | N 59°31'28" E | 51.59' | 40°14'10" |

| CONTROL COORDINATES |              |             |       |              |             |
|---------------------|--------------|-------------|-------|--------------|-------------|
| PT#                 | EAST         |             | NORTH |              | EAST        |
| ①                   | 1519854.3405 | 411519.8232 | 49    | 1519768.1586 | 416796.4250 |
| 2                   | 1519851.6139 | 412020.7196 | 50    | 1519799.4629 | 416635.4894 |
| 3                   | 1519836.2577 | 412178.0465 | 51    | 1519754.2292 | 416646.2573 |
| 4                   | 1519835.2908 | 412344.9394 | 52    | 1519737.1768 | 416682.9259 |
| 5                   | 1519832.3523 | 412839.9172 | 53    | 1519768.9130 | 416697.6845 |
| 6                   | 1519824.6554 | 412839.8839 | 54    | 1519734.4833 | 416703.9772 |
| 7                   | 1519815.4237 | 414323.7908 | 55    | 1519742.7032 | 416748.9513 |
| 8                   | 1519808.5069 | 415478.2749 | 56    | 1519816.4811 | 416735.4669 |
| 9                   | 1519808.8344 | 415478.2756 | 57    | 1519768.8698 | 416793.4166 |
| 10                  | 1519798.1581 | 416796.6055 | 58    | 1519840.1622 | 416851.9902 |
| 31                  | 1519802.3411 | 411519.5735 | 59    | 1519876.3404 | 411519.9225 |
| 32                  | 1519832.3408 | 411519.7201 | 60    | 1519873.2460 | 412030.7076 |
| 33                  | 1519862.3404 | 411519.8667 | 61    | 1519829.3254 | 412017.4573 |
| 34                  | 1519858.7514 | 412179.2070 | 62    | 1519813.7641 | 412176.8860 |
| 35                  | 1519857.7904 | 412345.0730 | 63    | 1519812.7912 | 412344.8091 |
| 36                  | 1519855.1074 | 412797.0150 | 64    | 1519810.1078 | 412796.8208 |
| 37                  | 1519795.1080 | 412796.7560 | 65    | 1519732.3419 | 411519.2316 |
| 38                  | 1519797.7914 | 412344.7211 | 66    | 1519729.3549 | 412012.2864 |
| 39                  | 1519798.7524 | 412178.8594 | 67    | 1519713.7923 | 412171.7282 |
| 40                  | 1519794.4695 | 412869.6766 | 68    | 1519712.7929 | 412344.2226 |
| 41                  | 1519854.4691 | 412869.9183 | 69    | 1519710.1086 | 412796.3890 |
| 42                  | 1519845.4251 | 414323.6382 | 70    | 1519694.4701 | 412865.2779 |
| 43                  | 1519838.6868 | 415448.3319 | 71    | 1519685.4261 | 414323.6970 |
| 44                  | 1519778.6864 | 415448.2186 | 72    | 1519544.8818 | 415447.6660 |
| 45                  | 1519785.4242 | 414323.6076 | 73    | 1519678.5887 | 415508.0843 |
| 46                  | 1519778.5897 | 415508.3691 | 74    | 1519669.4918 | 416631.3943 |
| 47                  | 1519838.6604 | 415508.4866 | 75    | 1519547.7395 | 414982.1966 |
| 48                  | 1519827.9656 | 416796.7848 | 76    | 1519681.4732 | 414982.7739 |

SEE SHEET 1 FOR CERT.

RECORD DRAWING

**Jim**  
2001.059.7  
2002.053.3

JEFF MORTENSEN & ASSOCIATES, INC.  
6800-9 MIDWAY PARK BLVD. NE  
ALBUQUERQUE, NM 87109  
PHONE: 505-345-4250  
FAX: 505-345-4254  
E-MAIL: jmort@jma-inc.com

|                                                                                                                                                 |                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING DEVELOPMENT GROUP                                                                 |                                        |
| TITLE: NORTH DOMINGO BACA ARROYO/<br>CARMEL AVENUE N.E. STORM DRAIN EXTENSION BASELINE<br>AND HORIZONTAL CONTROL PLAN STA 49+00 TO STA 77+39.32 |                                        |
| Design Review Committee<br>DEC 2 6 2002                                                                                                         | City Engineer Approval<br>DEC 3 0 2002 |
| City Project No. 693481                                                                                                                         | Zone Map No. C20/21                    |
| Sheet 5                                                                                                                                         | Of 20                                  |

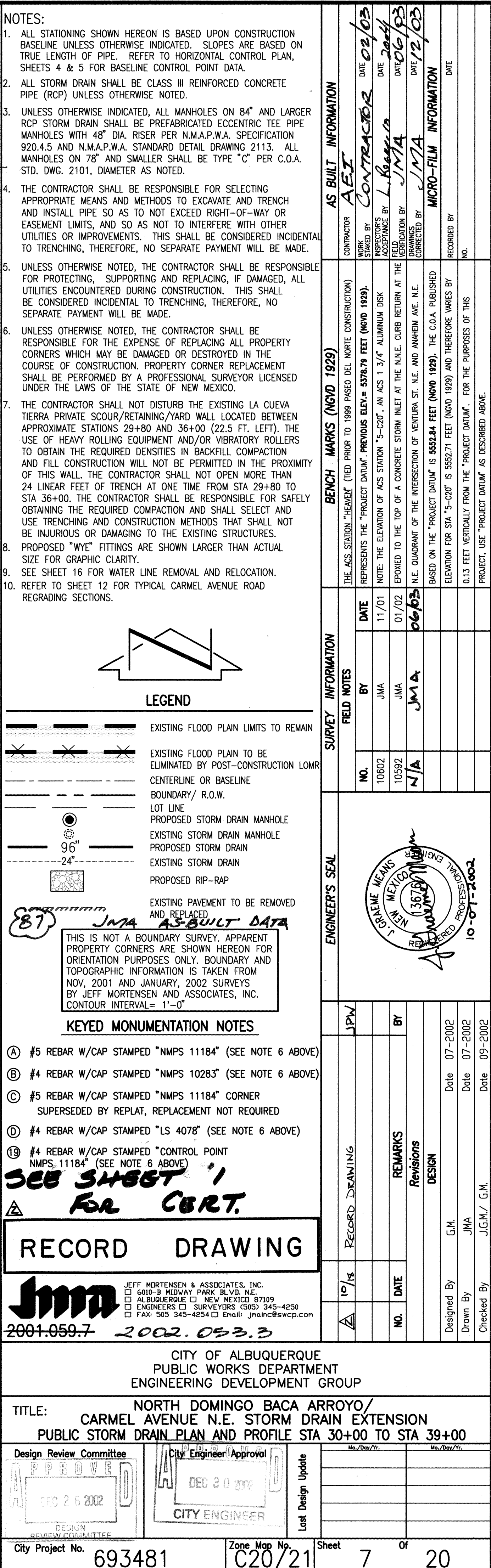














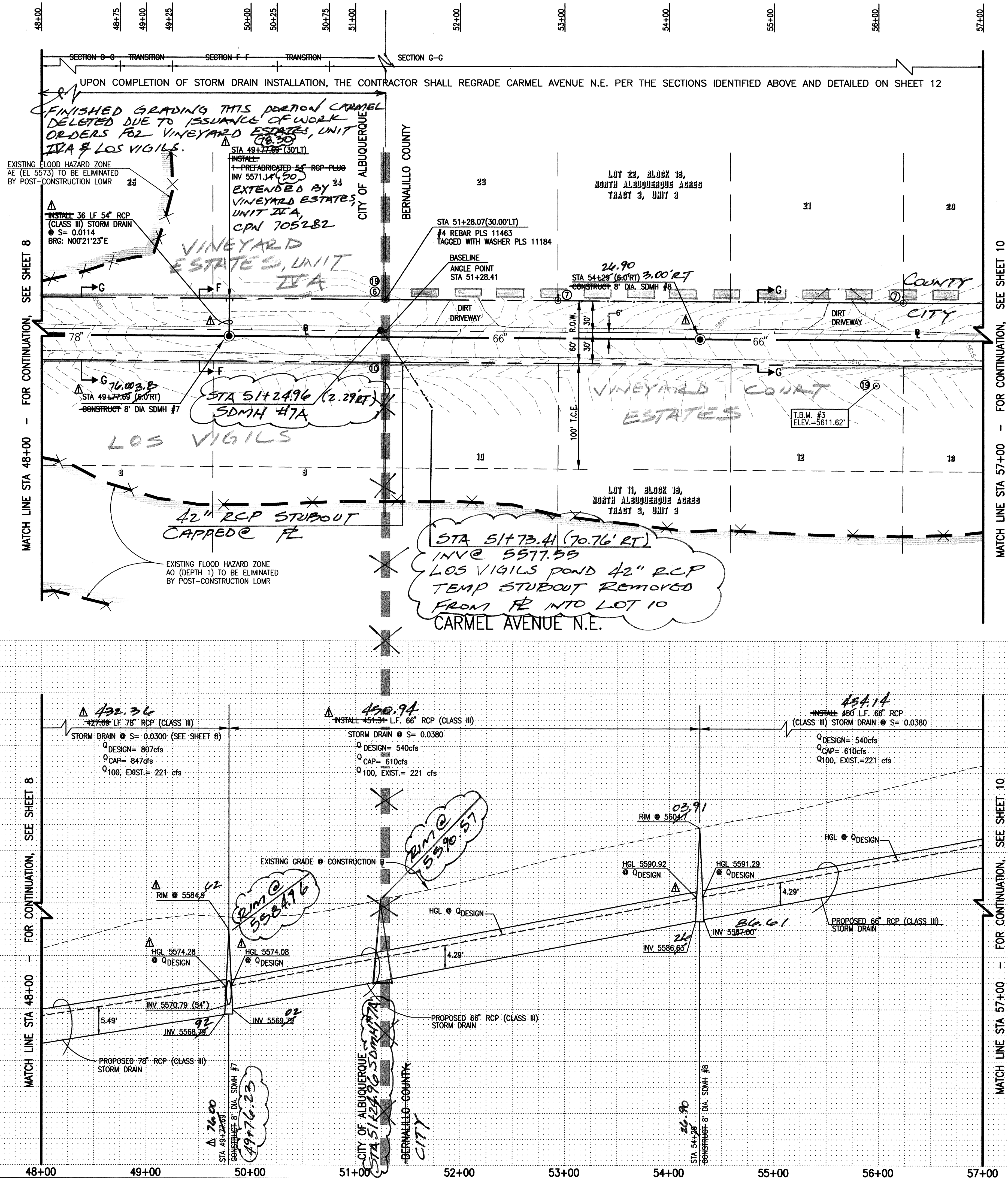


|                  |         |              |       |
|------------------|---------|--------------|-------|
| City Project No. | 69.3481 | Zone Map No. | C20/2 |
|------------------|---------|--------------|-------|

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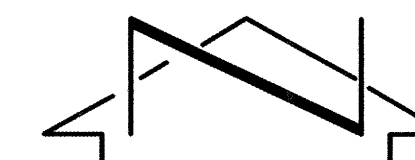


SCANNED BY  
MESA REPRO



SCALE:  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 10'

- NOTES:
- ALL STATIONING SHOWN HEREON IS BASED UPON CONSTRUCTION BASELINE UNLESS OTHERWISE INDICATED. SLOPES ARE BASED ON TRUE LENGTH OF PIPE. REFER TO HORIZONTAL CONTROL PLAN, SHEETS 4 & 5 FOR BASELINE CONTROL POINT DATA.
  - ALL STORM DRAIN SHALL BE CLASS III REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE NOTED.
  - UNLESS OTHERWISE INDICATED, ALL MANHOLES ON 8" AND LARGER RCP STORM DRAIN SHALL BE PREFABRICATED ECCENTRIC TEE PIPE MANHOLES WITH 48" DIA. RISER PER N.M.A.P.W.A. SPECIFICATION 920.4.5 AND N.M.A.P.W.A. STANDARD DETAIL DRAWING 2113. ALL MANHOLES ON 78" AND SMALLER SHALL BE TYPE "C" PER C.O.A. STD. DWG. 2101, DIAMETER AS NOTED.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES OR IMPROVEMENTS. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
  - UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING SUPPORTING AND REPLACING, IF DAMAGED, ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
  - UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXPENSE OF REPLACING ALL PROPERTY CORNERS WHICH MAY BE DAMAGED OR DESTROYED IN THE COURSE OF CONSTRUCTION. PROPERTY CORNER REPLACEMENT SHALL BE PERFORMED BY A PROFESSIONAL SURVEYOR LICENSED UNDER THE LAWS OF THE STATE OF NEW MEXICO.
  - REFER TO SHEET 12 FOR CARMEL AVENUE ROAD REGRADING SECTIONS.



LEGEND

- EXISTING FLOOD PLAIN LIMITS TO REMAIN
- EXISTING FLOOD PLAIN TO BE ELIMINATED BY POST-CONSTRUCTION LOMR
- CENTERLINE OR BASELINE
- BOUNDARY/ R.O.W.
- LOT LINE
- PROPOSED STORM DRAIN MANHOLE
- EXISTING STORM DRAIN MANHOLE
- EXISTING STORM DRAIN
- PROPOSED RIP-RAP

THIS IS NOT A BOUNDARY SURVEY. APPARENT PROPERTY CORNERS ARE SHOWN HEREON FOR ORIENTATION PURPOSES ONLY. BOUNDARY AND TOPOGRAPHIC INFORMATION IS TAKEN FROM A JANUARY, 2002 SURVEY BY JEFF MORTESENSEN AND ASSOCIATES, INC. CONTOUR INTERVAL=1'-0"

MONUMENTATION KEYED NOTES

- #4 REBAR W/CAP STAMPED "LS 11463" AND TAGGED W/WASHER STAMPED "NMPS 11184" (SEE NOTE 6 ABOVE)
- #4 REBAR W/CAP STAMPED "NMPS 8127" (SEE NOTE 6 ABOVE)
- #5 REBAR W/CAP STAMPED "NEW MEXICO PS 11184" (SEE NOTE 6 ABOVE)
- #5 REBAR W/CAP STAMPED "CONTROL POINT NMPS 11184" (SEE NOTE 6 ABOVE)

SEE SHEET 1  
FOR CERT.

RECORD DRAWING

**JMA**  
JEFF MORTESENSEN & ASSOCIATES, INC.  
5000-B MIDWAY PARK BLVD. N.E.  
ALBUQUERQUE, N.M. 87109  
TELEPHONE: (505) 345-4250  
FAX: (505) 345-4254  
E-MAIL: jma@jma-inc.com

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

TITLE:  
NORTH DOMINGO BACA ARROYO/  
CARMEL AVENUE N.E. STORM DRAIN EXTENSION  
PUBLIC STORM DRAIN PLAN AND PROFILE STA 48+00 TO STA 57+00

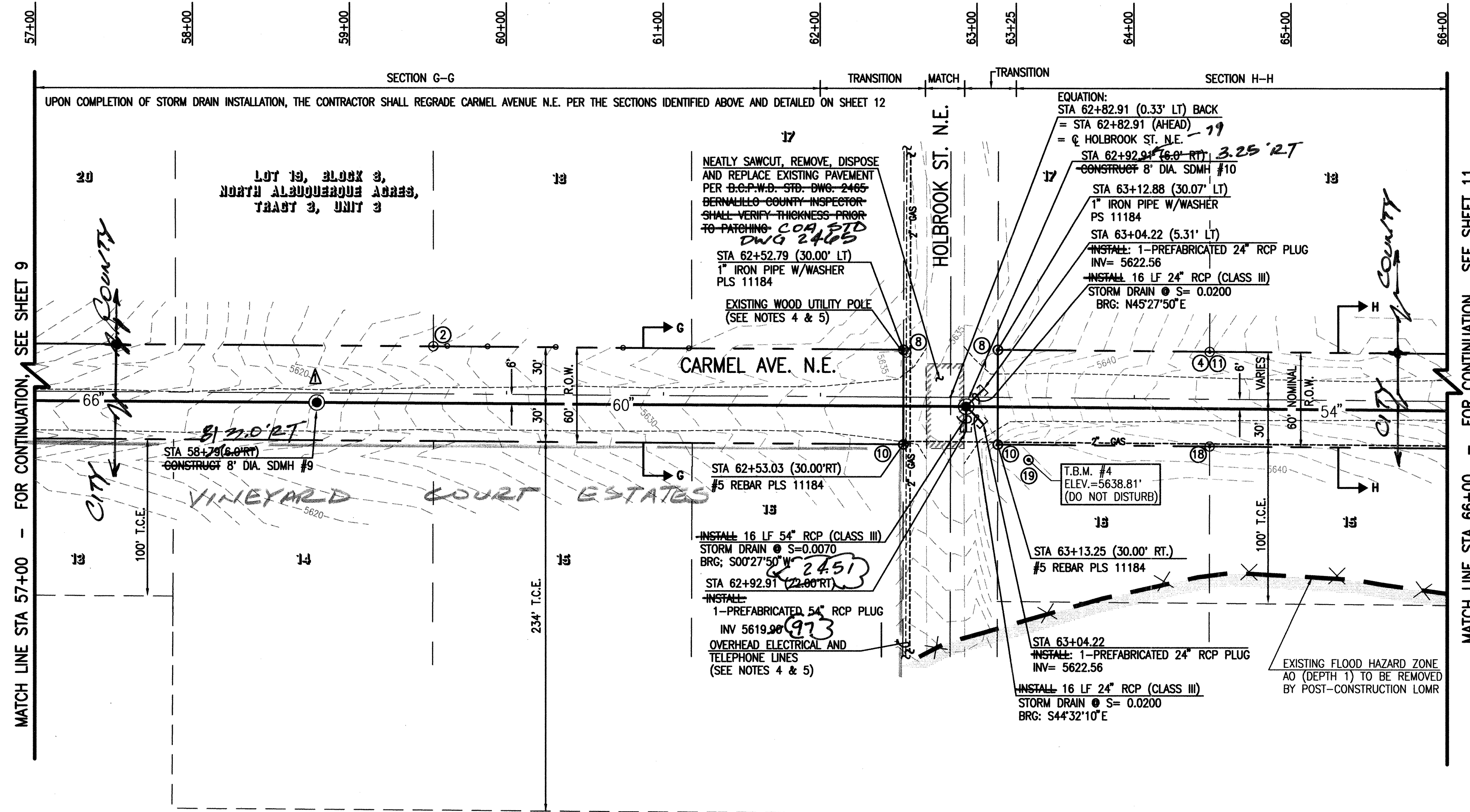
Design/Review Committee  
DEC 2 6 2002  
CITY ENGINEER APPROVAL  
DEC 3 0 2002  
CITY ENGINEER

City Project No. 693481  
Zone Map No. C20/21  
Sheet 9 of 20

| AS BUILT INFORMATION |      | BENCH MARKS (NGVD 1929)                                                        |      | SURVEY INFORMATION |       | ENGINEER'S SEAL |         |
|----------------------|------|--------------------------------------------------------------------------------|------|--------------------|-------|-----------------|---------|
| CONTRACTOR           | DATE | LINE AND STATION "HEAD" (TIED PRIOR TO 1989 PASO DEL NORTE CONSTRUCTION)       | DATE | NO.                | DATE  | BY              | DATE    |
| CONTRACTOR           | DATE | REPRESENTS THE "PROJECT DATUM" (PREVIOUS ELEVATION = 5376.74 FEET (NGVD 1929)) | DATE | 10602              | 11/01 | JMA             | 07-2002 |
| INSPECTOR            | DATE | NOTE: THE ELEVATION OF THIS STATION "5-C20" AN ACS 1 3/4" ALUMINUM DISK        | DATE | 10602              | 01/02 | JMA             | 07-2002 |
| INSPECTOR            | DATE | EXPLORED TO THE TOP OF A CONCRETE STORM INLET AT THE N.E. CORNER RETURN AT THE | DATE | 10602              | 01/02 | JMA             | 07-2002 |
| INSPECTOR            | DATE | N.E. QUADRANT OF THE INTERSECTION OF VENTURA ST. N.E. AND WAREH AVE. N.E.      | DATE | 10602              | 01/02 | JMA             | 07-2002 |
| INSPECTOR            | DATE | BASED ON THE "PROJECT DATUM" IS 5524.44 FEET (NGVD 1929). THE C.O.A. PUBLISHED | DATE | 10602              | 01/02 | JMA             | 07-2002 |
| INSPECTOR            | DATE | ELEVATION FOR STA "5-C20" IS 5527.71 FEET (NGVD 1929) AND THEREFORE LINES BY   | DATE | 10602              | 01/02 | JMA             | 07-2002 |
| INSPECTOR            | DATE | 0.13 FEET VERTICALLY FROM THE "PROJECT DATUM" FOR THE PURPOSES OF THIS         | DATE | 10602              | 01/02 | JMA             | 07-2002 |
| INSPECTOR            | DATE | PROJECT USE "PROJECT DATUM" AS DESCRIBED ABOVE.                                | DATE | 10602              | 01/02 | JMA             | 07-2002 |

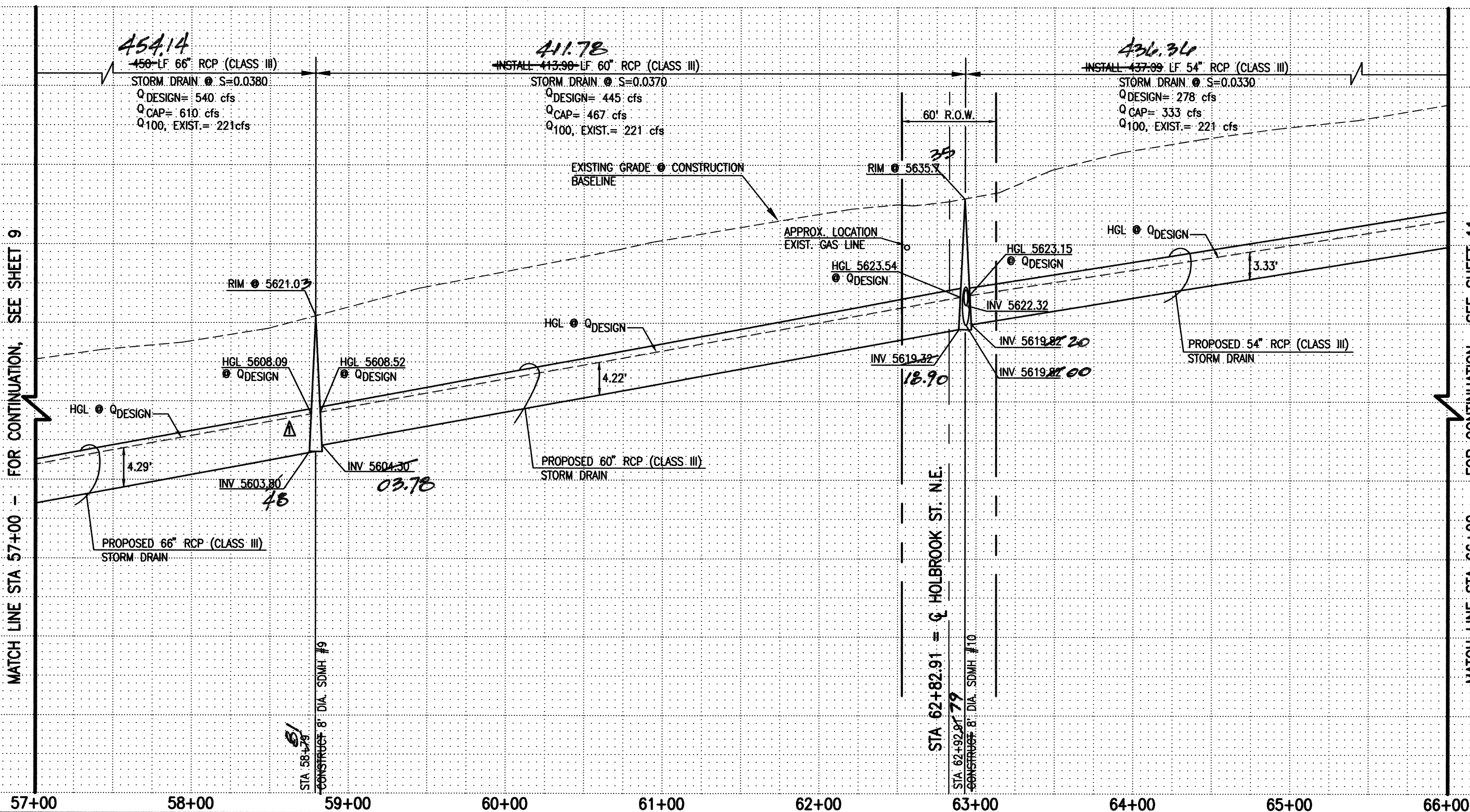


SCANNED BY  
MESA REPRO



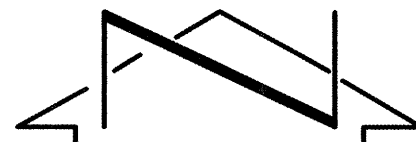
CARMEL AVENUE N.E.

SCALE:  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 10'

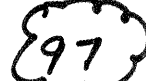


ELEVATIONS ARE IN NGVD 1929

- NOTES:
- ALL STATIONING SHOWN HEREON IS BASED UPON CONSTRUCTION BASELINE UNLESS OTHERWISE INDICATED. SLOPES ARE BASED ON TRUE LENGTH OF PIPE. REFER TO HORIZONTAL CONTROL PLAN, SHEETS 4 & 5 FOR BASELINE CONTROL POINT DATA.
  - ALL STORM DRAIN SHALL BE CLASS III REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE NOTED.
  - UNLESS OTHERWISE INDICATED, ALL MANHOLES ON 8" AND LARGER RCP STORM DRAIN SHALL BE PREFABRICATED ECCENTRIC TEE PIPE MANHOLES WITH 48" DIA. RISER PER N.M.A.P.W.A. SPECIFICATION 920.4.5 AND N.M.A.P.W.A. STANDARD DETAIL DRAWING 2113. ALL MANHOLES ON 8" AND SMALLER SHALL BE TYPE "C" PER C.O.A. STD. DWG. 2101, DIAMETER AS NOTED.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES OR IMPROVEMENTS. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
  - UNLESS OTHERWISE NOTED THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
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  - REFER TO SHEET 12 FOR TYPICAL CARMEL AVENUE ROAD REGRADING SECTIONS.



LEGEND

|                                                                                      |                                       |
|--------------------------------------------------------------------------------------|---------------------------------------|
|   | EXISTING FLOOD PLAIN LIMITS TO REMAIN |
|   |                                       |
|   | EXISTING FLOOD PLAIN TO BE            |
|   | ELIMINATED BY POST-CONSTRUCTION LOW   |
|   | CENTERLINE OR BASELINE                |
|   | BOUNDARY/ R.O.W.                      |
|   | LOT LINE                              |
|   | PROPOSED STORM DRAIN MANHOLE          |
|   | EXISTING STORM DRAIN MANHOLE          |
|   | PROPOSED STORM DRAIN                  |
|   | EXISTING STORM DRAIN                  |
|   | PROPOSED RIP-RAP                      |
|   |                                       |
|   | EXISTING PAVEMENT TO BE REMOVED       |
|   | AND REPLACED                          |
|  | JMA AS-BUILT DATA                     |

MONUMENTATION KEYED NOTES

- #4 REBAR W/CAP STAMPED "WAYJOHN RLS 6540" (SEE NOTE 6 ABOVE)
- #4 REBAR, NO I.D. (SEE NOTE 6 ABOVE)
- 1" IRON PIPE TAGGED W/WASHER STAMPED "NMPS 11184" (SEE NOTE 6 ABOVE)
- #5 REBAR W/CAP STAMPED "NMPS 11184" (SEE NOTE 6 ABOVE)
- #5 REBAR W/CAP STAMPED "TYREE PS 3516" (SEE NOTE 6 ABOVE)
- #4 REBAR W/CAP STAMPED "WAYJOHN PS 14269" (SEE NOTE 6 ABOVE)
- #5 REBAR W/CAP STAMPED "CONTROL POINT NMPS 11184" (SEE NOTE 6 ABOVE)

SEE SHEET 1  
FOR CERT.

RECORD DRAWING

JMA  
2001.059.7 2002.053.3

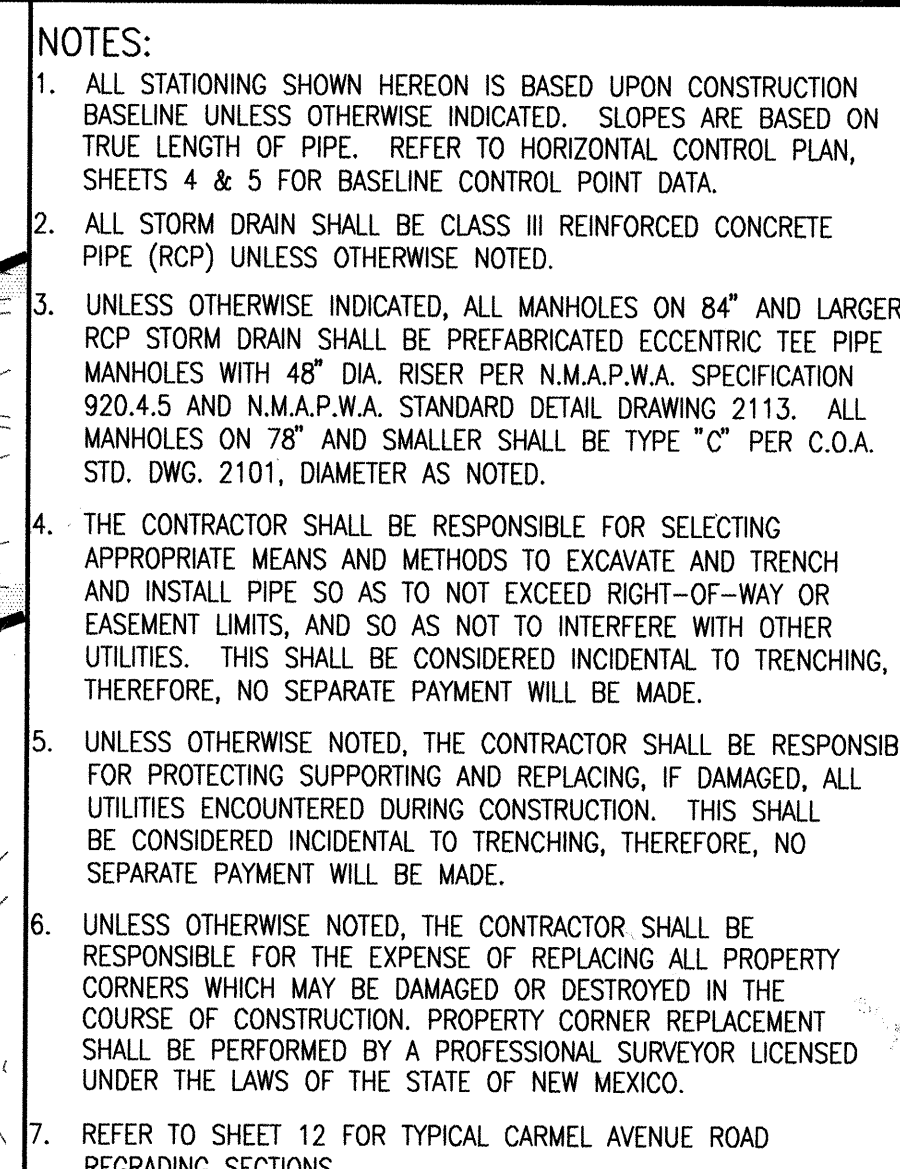
CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

TITLE:  
NORTH DOMINGO BACA ARROYO/  
CARMEL AVENUE N.E. STORM DRAIN EXTENSION  
PUBLIC STORM DRAIN PLAN AND PROFILE STA 57+00 TO STA 66+00

| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | DATE     |
|-------------------------|------------------------|----------|
| DEC 2 6 2002            | DEC 3 0 2002           | 12/16/02 |

City Project No. 693481 Zone Map No. C20/21 Sheet 10 of 20





### LEGEND

|                                                                                     |                                                                                                        |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
|  | EXISTING FLOOD PLAIN LIMITS TO REMAIN                                                                  |
|  | EXISTING FLOOD PLAIN TO BE ELIMINATED BY POST-CONSTRUCTION LOW CENTERLINE OR BASELINE BOUNDARY/ R.O.W. |
|  | LOT LINE                                                                                               |
|  | PROPOSED STORM DRAIN MANHOLE                                                                           |
|  | EXISTING STORM DRAIN MANHOLE                                                                           |
|  | PROPOSED STORM DRAIN                                                                                   |
|  | EXISTING STORM DRAIN                                                                                   |
|  | PROPOSED RIP-RAP                                                                                       |

THIS IS NOT A BOUNDARY SURVEY. APPARENT PROPERTY CORNERS ARE SHOWN HEREON FOR ORIENTATION PURPOSES ONLY. BOUNDARY AND TOPOGRAPHIC INFORMATION IS TAKEN FROM A JANUARY, 2002 SURVEY BY JEFF MORTENSEN AND ASSOCIATES, INC. CONTOUR INTERVAL=1'-0"

MONUMENTATION KEYED NOTES

- 4) #4 REBAR, NO I.D. (SEE NOTE 6 ABOVE)
- 10) #5 REBAR W/CAP STAMPED "NEW MEXICO PS 11184"  
(SEE NOTE 6 ABOVE)
- 12) #5 REBAR W/CAP STAMPED "MARQUEZ LS 10283"  
(SEE NOTE 6 ABOVE)
- 13) 1 1/2" IRON PIPE (SEE NOTE 6 ABOVE)
- 14) #4 REBAR W/CAP, ILLEGIBLE (SEE NOTE 6 ABOVE)
- 15) #4 REBAR W/CAP STAMPED "LS 7903"  
(SEE NOTE 6 ABOVE)
- 16) AMAFCA BRASS CAP SET IN CONCRETE  
(SEE NOTE 6 ABOVE)
- 17) #3 REBAR, NO I.D. (SEE NOTE 6 ABOVE)
- 18) #4 REBAR W/CAP STAMPED "WAYJOHN PS 14269"  
(SEE NOTE 6 ABOVE)
- 19) #5 REBAR W/CAP STAMPED "CONTROL POINT NMPS 11184"

SEE SHEET 1  
FOR CERT.

RECORD DRAWING

**JMA** JEFF MORTENSEN & ASSOCIATES, INC.  
☐ 6010-B MIDWAY PARK BLVD. N.E.  
☐ ALBUQUERQUE □ NEW MEXICO 87109  
☐ ENGINEERS □ SURVEYORS (505) 345-4250  
☐ FAX: 505 345-4254 □ Email: jmort@swcp.com

**2001.059.7** **2002.053.3**

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT

|        |                                                                                                |
|--------|------------------------------------------------------------------------------------------------|
| TITLE: | NORTH DOMINGO BACA A<br>CARMEL AVENUE N.E. STORM DR<br>PUBLIC STORM DRAIN PLAN AND PROFILE STA |
|--------|------------------------------------------------------------------------------------------------|

Design Review Committee

DEC 2 6 2002

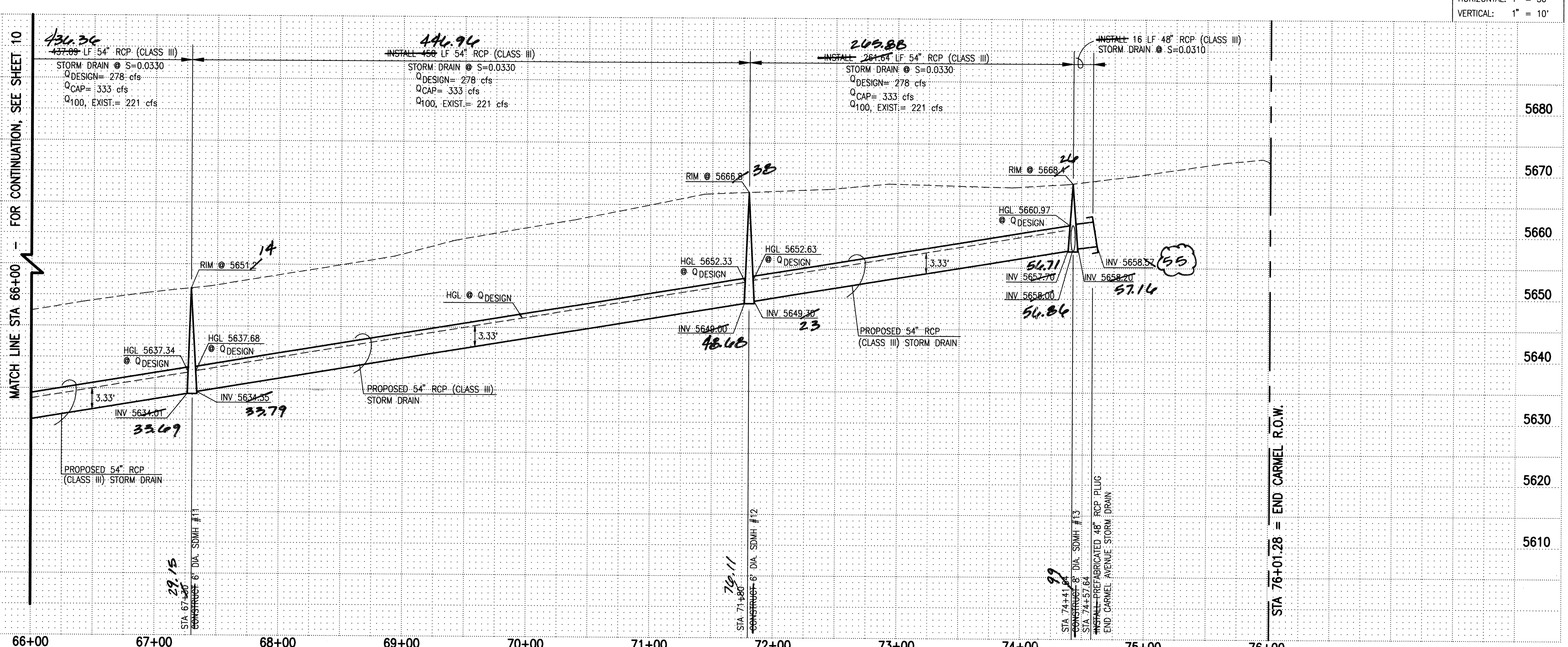
CITY ENGINEER APPROVAL

DEC 3 0 2002

CITY ENGINEER

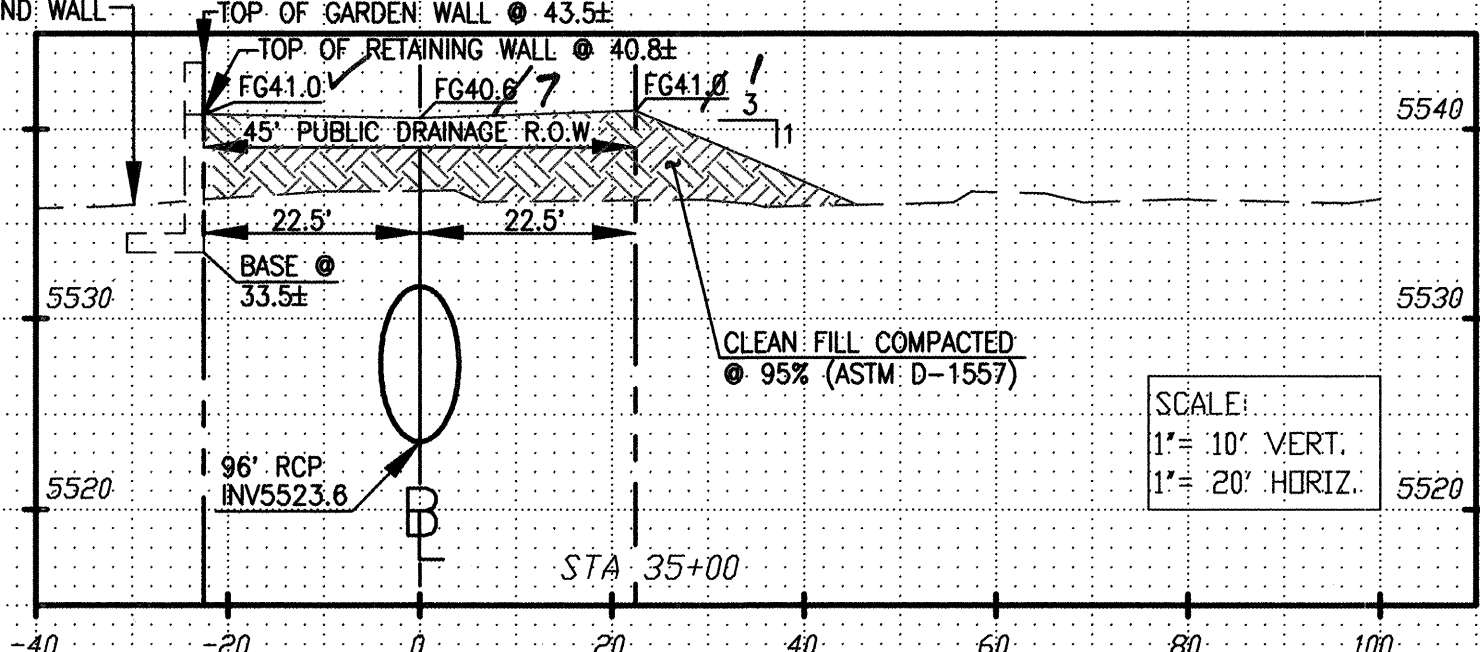
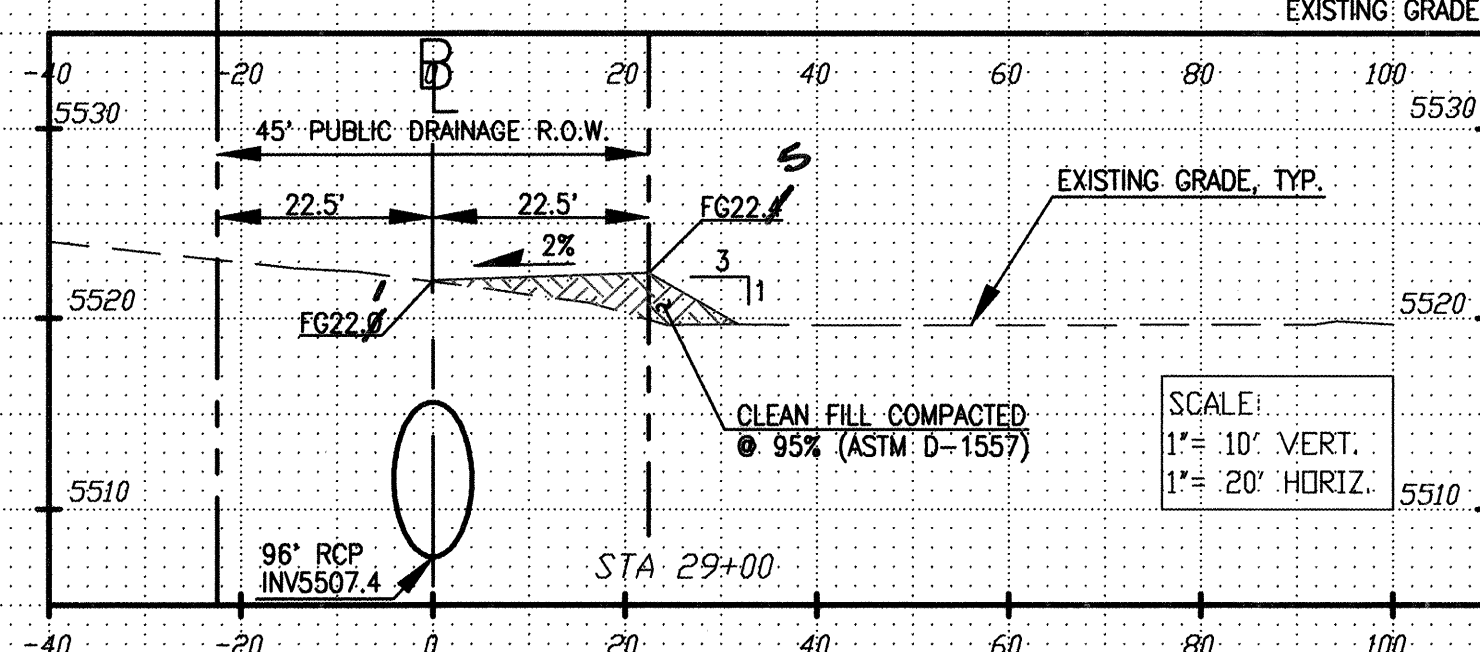
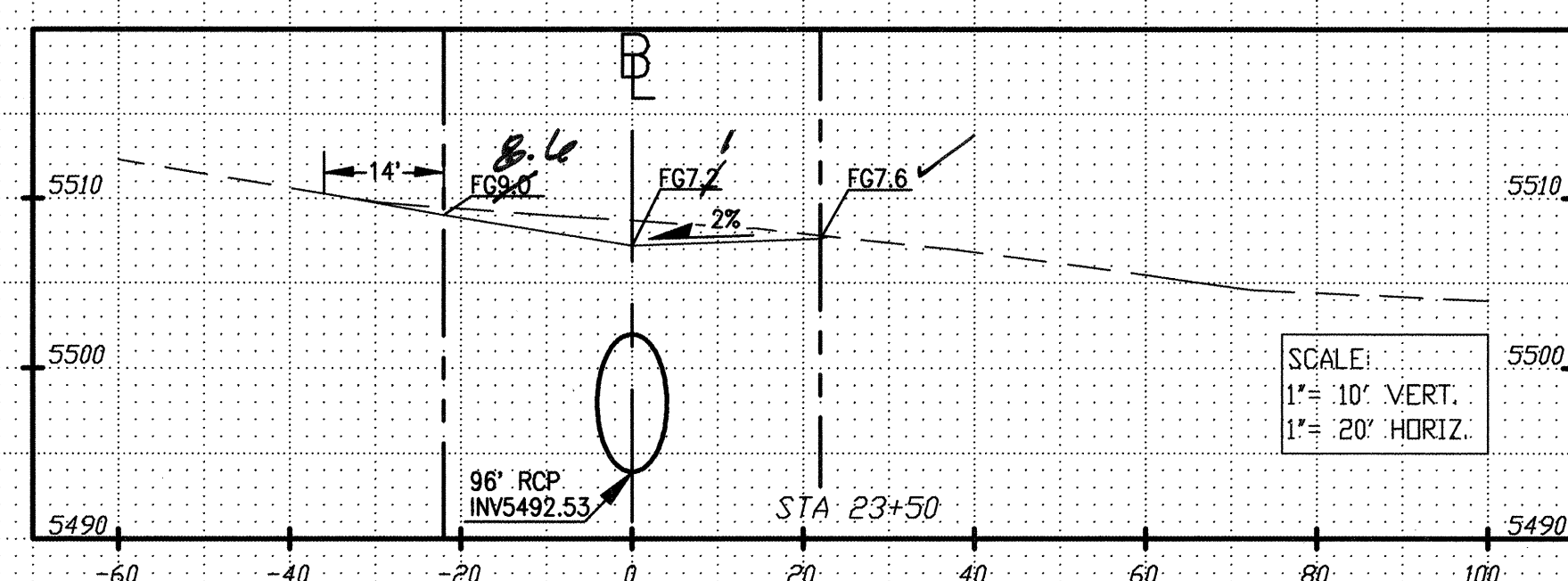
Just Design Update

|                                |  |                            |
|--------------------------------|--|----------------------------|
| City Project No. <b>693481</b> |  | Zone Map No. <b>620/21</b> |
|--------------------------------|--|----------------------------|



|                                |  |                            |
|--------------------------------|--|----------------------------|
| City Project No. <b>693481</b> |  | Zone Map No. <b>620/21</b> |
|--------------------------------|--|----------------------------|





- SEE SHEET 1  
FOR CERT.

RECORD DRAWING

**Jma**  
2001.059.7

JEFF MORTENSEN & ASSOCIATES, INC.  
☐ 6010-B MIDWAY PARK BLVD. N.E.  
☐ ALBUQUERQUE ☐ NEW MEXICO 87109  
☐ ENGINEERS ☐ SURVEYORS (505) 345-4250  
☐ FAX: 505 345-4254 ☐ Email: jmainc@swcp.com

2002.053.3

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT

TITLE: NORTH DOMINGO BACA AR  
CARMEL AVENUE N.E. STORM DRA  
STORM DRAIN AND STREET GRADING (

Design Review Committee  
APPROVE  
DEC 26 2002

tee City Engineer Approval  
APPROVED  
DEC 30 2002  
Design Update

| BENCH MARKS (NGVD 1929)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AS BUILT INFORMATION                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>THE "A-5 STATION 'HEAVY'" TIED FROM TO 1989 PASSED DEL NORTE CONSTRUCTION) REPRESENTS THE "PROJECT DATUM". PREVIOUS ELEV. = 5378.79 FEET (NGVD 1929).</p> <p>NOTE: THE ELEVATION OF A-5 STATION "5'-000", AN A-5 1 3/4" ALUMINUM DISK EXPOSED TO THE TOP OF A CONCRETE STORM INLET AT THE N.E. CURB RETURN AT THE N.E. QUADRANT OF THE INTERSECTION OF VENURA ST. AVE. AND ANHEIM AVE. N.E.</p> <p>BASED ON THE "PROJECT DATUM" IS 5582.84 FEET (NGVD 1929). THE C.O.A. PUBLISHED ELEVATION FOR STA "5'-000" IS 5582.71 FEET (NGVD 1929) AND THEREFORE VARIES BY 0.13 FEET VERTICALLY FROM THE "PROJECT DATUM". FOR THE PURPOSES OF THIS PROJECT, USE "PROJECT DATUM" AS DESCRIBED ABOVE.</p> | <p>CONTRACTOR <b>A-E-I</b></p> <p>DRAWN BY <b>Contractor</b> DATE <b>04/03</b></p> <p>INSPECTED BY <b>L. Rasmussen</b> DATE <b>2006</b></p> <p>APPROVED BY <b>Robert Sussell</b> DATE <b>05-14-03</b></p> <p>DRAWINGS CORRECTED BY <b>JMA</b> DATE <b>12-03</b></p> <p>RECORDED BY DATE</p> <p>NO.</p> |

| <b>SURVEY INFORMATION</b> |           |             |
|---------------------------|-----------|-------------|
| <b>FIELD NOTES</b>        |           |             |
| <b>NO.</b>                | <b>BY</b> | <b>DATE</b> |
| 10602                     | JMA       | 11/01       |
|                           |           |             |
|                           |           |             |
|                           |           |             |
|                           |           |             |
|                           |           |             |

ENGINEER'S SEAL

10-07-2002

138766

J. GARIBAY MEANS  
NEW MEXICO  
REGISTERED PROFESSIONAL ENGINEER

*[Signature]*

|  |              |      |                |     |
|--|--------------|------|----------------|-----|
|  |              |      |                | JAN |
|  |              |      | RECORD DRAWING |     |
|  |              |      |                |     |
|  |              |      |                |     |
|  |              |      | REMARKS        | BY  |
|  |              |      | Revisions      |     |
|  |              |      | DESIGN         |     |
|  | G.M.         | Date | 07-2002        |     |
|  | J.P.JR       | Date | 07-2002        |     |
|  | J.G.M./ G.M. | Date | 09-2002        |     |

[illegible]

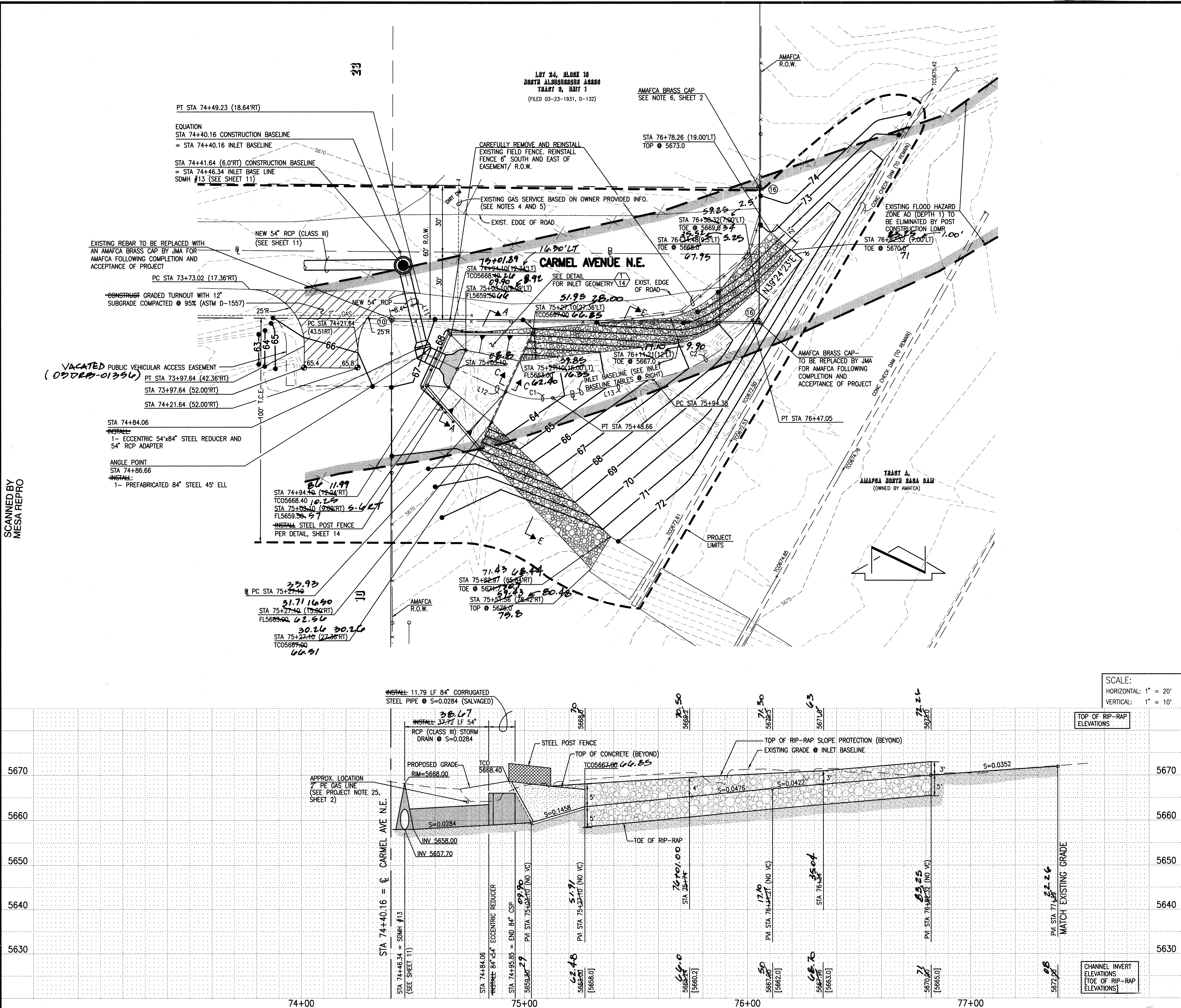
ELEVATIONS ARE IN NGVD 1929

City Project No. 693481

|              |       |    |
|--------------|-------|----|
| Zone Map No. | Sheet | Of |
| C20/21       | 12    | 20 |



SCANNED BY  
MESA REPHO



**NOTES:**

- ALL STATIONING SHOWN HEREON IS BASED UPON CONSTRUCTION BASELINE UNLESS OTHERWISE INDICATED. SLOPES ARE BASED ON TRUE LENGTH OF PIPE. REFER TO HORIZONTAL CONTROL PLAN, SHEETS 4 & 5 FOR BASELINE CONTROL POINT DATA.
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- SEE SHEET 14 FOR INLET SECTIONS AND DETAILS.
- ALL CORRUGATED STEEL PIPE (CSP) JOINTS SHALL BE WATER TIGHT CONNECTIONS WITH O-RING GASKETS AND COUPLING (HUGGER) BANDS CONFORMING TO SECTION 570.223 AND 570.224 OF THE STANDARD SPECIFICATIONS.
- UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXPENSE OF REPLACING ALL PROPERTY CORNERS WHICH MAY BE DAMAGED OR DESTROYED IN THE COURSE OF CONSTRUCTION. PROPERTY CORNER REPLACEMENT SHALL BE PERFORMED BY A PROFESSIONAL SURVEYOR LICENSED UNDER THE LAWS OF THE STATE OF NEW MEXICO.

**LEGEND**

- EXISTING FLOOD PLAIN LIMITS TO REMAIN
- EXISTING FLOOD PLAIN TO BE ELIMINATED BY POST CONSTRUCTION LOWR CENTERLINE OR BASELINE BOUNDARY/ R.O.W.
- LOT LINE
- PROPOSED STORM DRAIN MANHOLE
- EXISTING STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN
- EXISTING STORM DRAIN
- PROPOSED RIP-RAP
- PROJECT LIMITS

**KEYED MONUMENTATION NOTES**

⑩ #5 REBAR W/ CAP STAMPED "NEW MEXICO PS 11184" (SEE NOTE 8 ABOVE)

⑪ AMAFCA BRASS CAP SET IN CONCRETE (SEE NOTE 8 ABOVE)

**INLET BASELINE LINE TABLE**

| LINE | DIRECTION   | DISTANCE |
|------|-------------|----------|
| L11  | S13°23'24"E | 46.50'   |
| L12  | S85°03'35"E | 40.44'   |
| L13  | N79°38'33"E | 45.72'   |

**INLET BASELINE CURVE TABLE**

| CURVE | R      | L      | BEARING     | CHORD  | DELTA     |
|-------|--------|--------|-------------|--------|-----------|
| C1    | 35.00' | 21.56' | S82°42'31"E | 21.22' | 35°17'53" |
| C2    | 75.00' | 52.67' | N59°31'28"E | 51.59' | 40°14'10" |

**SEE SHEET 1 FOR CERT.**

**RECORD DRAWING**

**JMA** 2001.059.7

JEFF MORTENSEN & ASSOCIATES, INC.  
6000-B MIDWAY PARK BLVD. N.E.  
ALBUQUERQUE, N.M. 87109  
ENGINEERS & SURVEYORS (505) 345-4250  
FAX: 505 345-4254 Email: jma@jma-inc.com

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

TITLE: NORTH DOMINGO BACA ARROYO/  
CARMEL AVENUE N.E. STORM DRAIN EXTENSION  
INLET PLAN AND PROFILE STA 74+46.34 TO STA 77+39

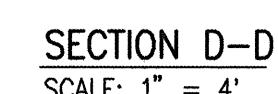
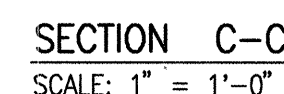
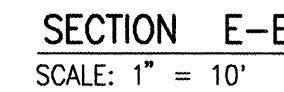
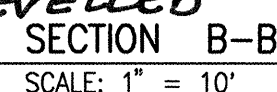
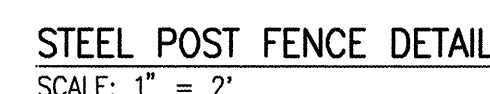
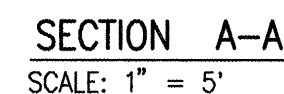
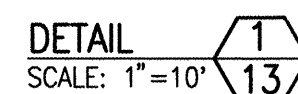
Design Review Committee: DEC 2 6 2002  
City Engineer Approval: DEC 3 0 2002

City Project No. 693481 Zone Map No. C20/21 Sheet 13 of 20



1000

MESA REPRO

TYPE "1" RIP-RAP GRADATION

0 ... = 331 cfs

$$Y_s/Y = 0.73 + 0.14 \pi Fr^{-1} \quad (\text{eq. 3.89, SEDIMENT AND EROSION DESIGN GUIDE})$$

| SECTION | Y(ft) | Fr   | Ys (ft) |
|---------|-------|------|---------|
| 286     | 1.24  | 1.76 | 2.59    |
| 287     | 1.28  | 1.90 | 2.97    |
| 288     | 1.46  | 2.43 | 4.86    |
| 289     | 2.89  | 1.01 | 3.41    |
| 290     | 2.06  | 1.21 | 2.83    |

MAX. SCOUR=4.86': USE 5.0' DEPTH OF RIP-RAP (SECTION D-D) AND TURN-DOWN (SECTION C-C)

RECORD      DRAWING

~~2001.059.7~~

2002.053.3

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT

TITLE: NORTH DOMINGO BACA ARROYO/  
CARMEI AVENUE N.E. STORM DRAIN EXTENSION

[illegible]

|        |        |    |
|--------|--------|----|
| 693481 | C20/21 | 14 |
|--------|--------|----|

ELEVATIONS ARE IN NGVD 1929

|        |    |
|--------|----|
| C20/21 | 14 |
|--------|----|



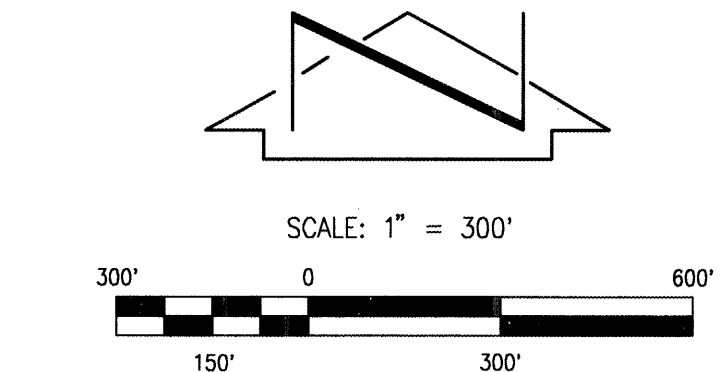
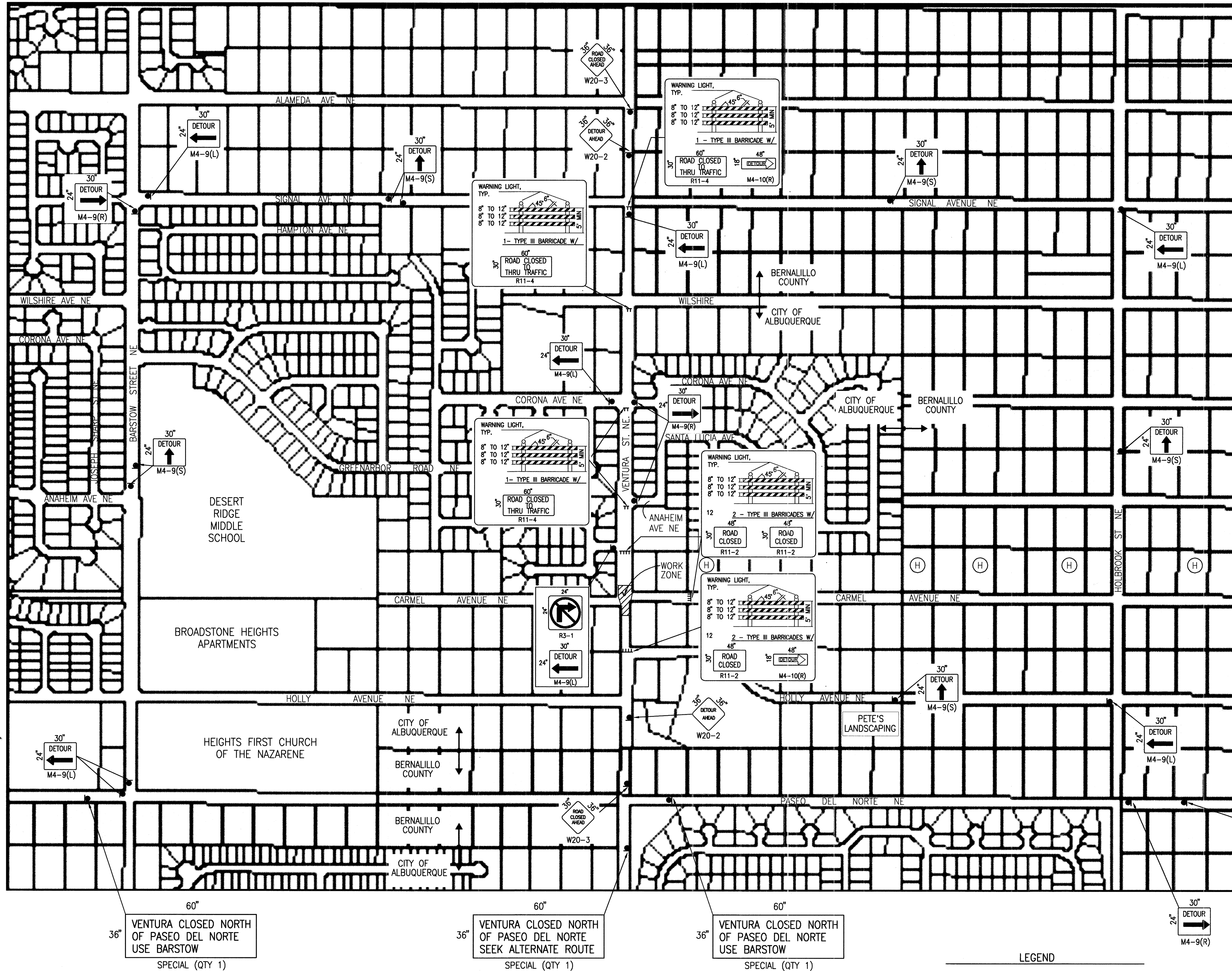








SCANNED BY  
MESA REPRO



60"  
36"  
VENTURA CLOSED NORTH  
OF PASEO DEL NORTE  
USE HOLBROOK  
SPECIAL (QTY 1)

- LEGEND
- (H) = EXISTING HOME ON CARMEL AVENUE N.E. IMPACTED BY CONSTRUCTION - SEE NOTES 37-38, SHEET 19
  - [ ] INCORPORATED AREA (CITY)
  - [ ] UNINCORPORATED AREA (COUNTY)

**RECORD DRAWING**

*SEE SHEET 1 FOR CERT.*

2002.063.3  
2001.059.7

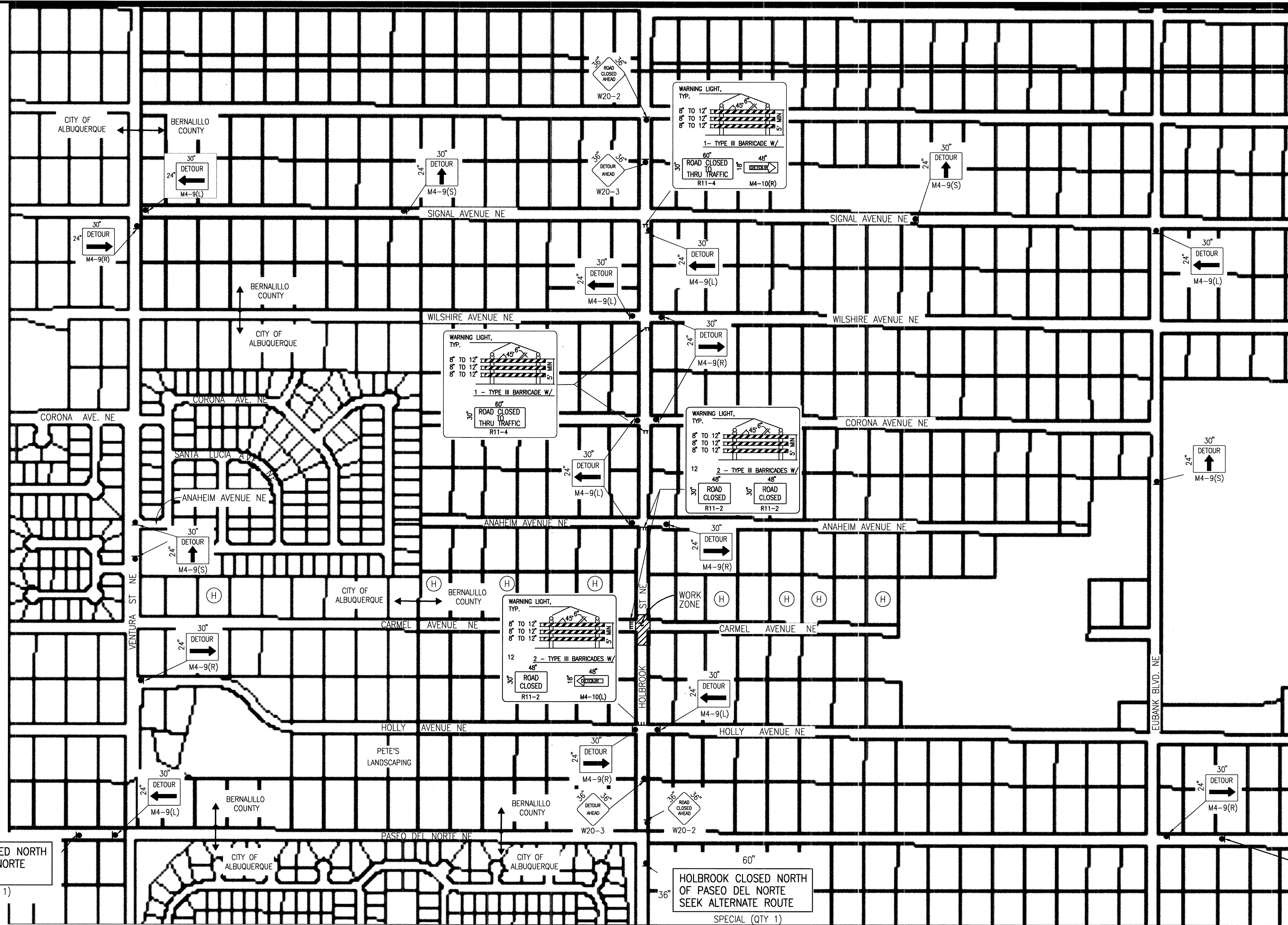
**JMA** JEFF MORTENSEN & ASSOCIATES, INC.  
1000 B. HIGHWAY PARK BLVD. N.E.  
ALBUQUERQUE, N.M. 87109  
TELEPHONE: 505-345-4254 FAX: 505-345-4254 E-MAIL: jma@jma-inc.com

|                                                                                                                          |                                                 |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING DEVELOPMENT GROUP                                          |                                                 |
| TITLE:<br>NORTH DOMINGO BACA ARROYO<br>CARMEL AVENUE N.E. STORM DRAIN EXTENSION<br>VENTURA ST. N.E. TRAFFIC CONTROL PLAN |                                                 |
| Design Review Committee<br><b>APPROVED</b>                                                                               | City Engineer Approval<br><b>APPROVED</b>       |
| Design By: C.J.S.<br>Drawn By: S.C.H.<br>Checked By: E.M.V./L.G.M.                                                       | Date: 07-2002<br>Date: 07-2002<br>Date: 09-2002 |
| Zone Map No. 693481                                                                                                      | Sheet 17 Of 20                                  |

|                 |     |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                        |  |
|-----------------|-----|--------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| ENGINEER'S SEAL |     | SURVEY INFORMATION |  | BENCH MARKS (NGVD 1929)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | AS BUILT INFORMATION   |  |
|                 | JPM | FIELD NOTES        |  | THE A.S. STATION "HEAVEN" (TIED PRIOR TO 1989 PASEO DEL NORTE CONSTRUCTION) REPRESENTS THE "PROJECT DATUM". PREVIOUS ELEV. = 5376.79 FEET (NGVD 1929). NOTE: THE ELEVATION OF A.S. STATION "S-C-207" AN A.S. 1 3/4" ALUMINUM DISK EXPOSED TO THE TOP OF A CONCRETE STORM INLET AT THE N.M.E. CURB RETURN AT THE N.E. QUADRANT OF THE INTERSECTION OF VENTURA ST. N.E. AND ANAHEIM AVE. N.E. BASED ON THE "PROJECT DATUM" IS 5353.84 FEET (NGVD 1929). THE C.O.A. PUBLISHED ELEVATION FOR STA "S-C-207" IS 5352.71 FEET (NGVD 1929) AND THEREFORE VARIES BY 0.13 FEET VERTICALLY FROM THE "PROJECT DATUM". FOR THE PURPOSES OF THIS PROJECT, USE "PROJECT DATUM" AS DESCRIBED ABOVE. |  | CONTRACTOR<br>A.E.T.   |  |
|                 |     | DATE               |  | DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | DATE                   |  |
|                 |     | BY                 |  | BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | BY                     |  |
|                 |     | NO.                |  | NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | NO.                    |  |
|                 |     | REMARKS            |  | REVISIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | REVISIONS              |  |
|                 |     | DESIGN             |  | DESIGN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | DESIGN                 |  |
|                 |     | Date 07-2002       |  | Date 07-2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | Date 12/03             |  |
|                 |     | S.G.H.             |  | S.G.H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | MICRO-FILM INFORMATION |  |
|                 |     | Checked By         |  | Checked By                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | MICRO-FILM INFORMATION |  |
|                 |     | Date 09-2002       |  | Date 09-2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | MICRO-FILM INFORMATION |  |

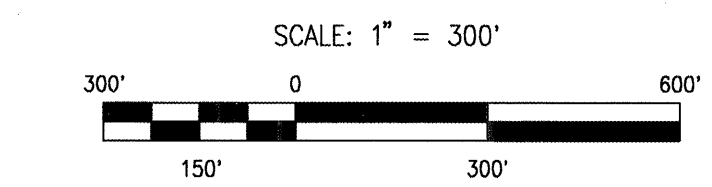


SCANNED BY  
MESA REPRO



SPECIAL (QTY 1)

SPECIAL (QTY 1)



60"  
HOLBROOK CLOSED NORTH  
OF PASEO DEL NORTE  
USE EUBANK  
SPECIAL (QTY 1)

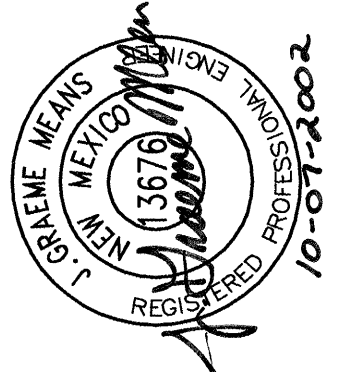
LEGEND

- (H) = EXISTING HOME ON CARMEL AVENUE N.E.  
IMPACTED BY CONSTRUCTION - SEE NOTES 37-38,  
SHEET 19
- INCORPORATED AREA (CITY)
- UNINCORPORATED AREA (COUNTY)

RECORD DRAWING

SEE SHEET 1 FOR CERT

| SURVEY INFORMATION |      | BENCH MARKS (NVD 1929)                                                          |       | AS BUILT INFORMATION                                                            |       |
|--------------------|------|---------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------|-------|
| NO.                | DATE | CONTRACTOR                                                                      | DATE  | CONTRACTOR                                                                      | DATE  |
| 10602              | JMA  | THE ASSOCIATION "HEADQUARTERS" (TIED PRIOR TO 1999 PASO DEL NORTE CONSTRUCTION) | 11/14 | THE ASSOCIATION "HEADQUARTERS" (TIED PRIOR TO 1999 PASO DEL NORTE CONSTRUCTION) | 11/14 |
| 10592              | JMA  | REPRESENTS THE "PROJECT DATUM", PREVIOUS ELEVATION = 5378.79 FEET (NVD 1929).   | 11/14 | REPRESENTS THE "PROJECT DATUM", PREVIOUS ELEVATION = 5378.79 FEET (NVD 1929).   | 11/14 |
|                    |      | NOTE: THE ELEVATION OF "AS STATION" 5+00' IS 5378.79 FEET (NVD 1929).           |       | NOTE: THE ELEVATION OF "AS STATION" 5+00' IS 5378.79 FEET (NVD 1929).           |       |
|                    |      | EXPLORED TO THE TOP OF A CONCRETE STORM INLET AT THE N.E. CORNER RETURN AT THE  |       | EXPLORED TO THE TOP OF A CONCRETE STORM INLET AT THE N.E. CORNER RETURN AT THE  |       |
|                    |      | N.E. QUADRANT OF THE INTERSECTION OF VENTURA ST. N.E. AND ANAHEIM AVE. N.E.     |       | N.E. QUADRANT OF THE INTERSECTION OF VENTURA ST. N.E. AND ANAHEIM AVE. N.E.     |       |
|                    |      | BASED ON THE "PROJECT DATUM" IS 5382.84 FEET (NVD 1929). THE C.O.A. PUBLISHED   |       | BASED ON THE "PROJECT DATUM" IS 5382.84 FEET (NVD 1929). THE C.O.A. PUBLISHED   |       |
|                    |      | ELEVATION FOR STA 5+00' IS 5382.71 FEET (NVD 1929) AND THEREFORE VARIES BY      |       | ELEVATION FOR STA 5+00' IS 5382.71 FEET (NVD 1929) AND THEREFORE VARIES BY      |       |
|                    |      | 0.13 FEET VERTICALLY FROM THE "PROJECT DATUM". FOR THE PURPOSES OF THIS         |       | 0.13 FEET VERTICALLY FROM THE "PROJECT DATUM". FOR THE PURPOSES OF THIS         |       |
|                    |      | PROJECT, USE "PROJECT DATUM" AS DESCRIBED ABOVE.                                |       | PROJECT, USE "PROJECT DATUM" AS DESCRIBED ABOVE.                                |       |



**JMA**  
2001.059.7  
2002.053.3  
JEFF MORTENSEN & ASSOCIATES, INC.  
400-B MIDWAY PARK BLVD. N.E.  
ALBUQUERQUE, N.M. 87109  
ENGINEERS (S) SURVEYORS (S) 345-4250  
FAX: 505 345-4254 Email: jmort@awcp.com

|                                                                                                                            |                        |
|----------------------------------------------------------------------------------------------------------------------------|------------------------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING DEVELOPMENT GROUP                                            |                        |
| TITLE:<br>NORTH DOMINGO BACA ARROYO/<br>CARMEL AVENUE N.E. STORM DRAIN EXTENSION<br>HOLBROOK ST. N.E. TRAFFIC CONTROL PLAN |                        |
| Design Review Committee                                                                                                    | City Engineer Approval |
| Mo./Day/Yr.                                                                                                                | Mo./Day/Yr.            |
| City Project No. 693481                                                                                                    | Zone Map No. C20/21    |
| Sheet 18                                                                                                                   | Of 20                  |



CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

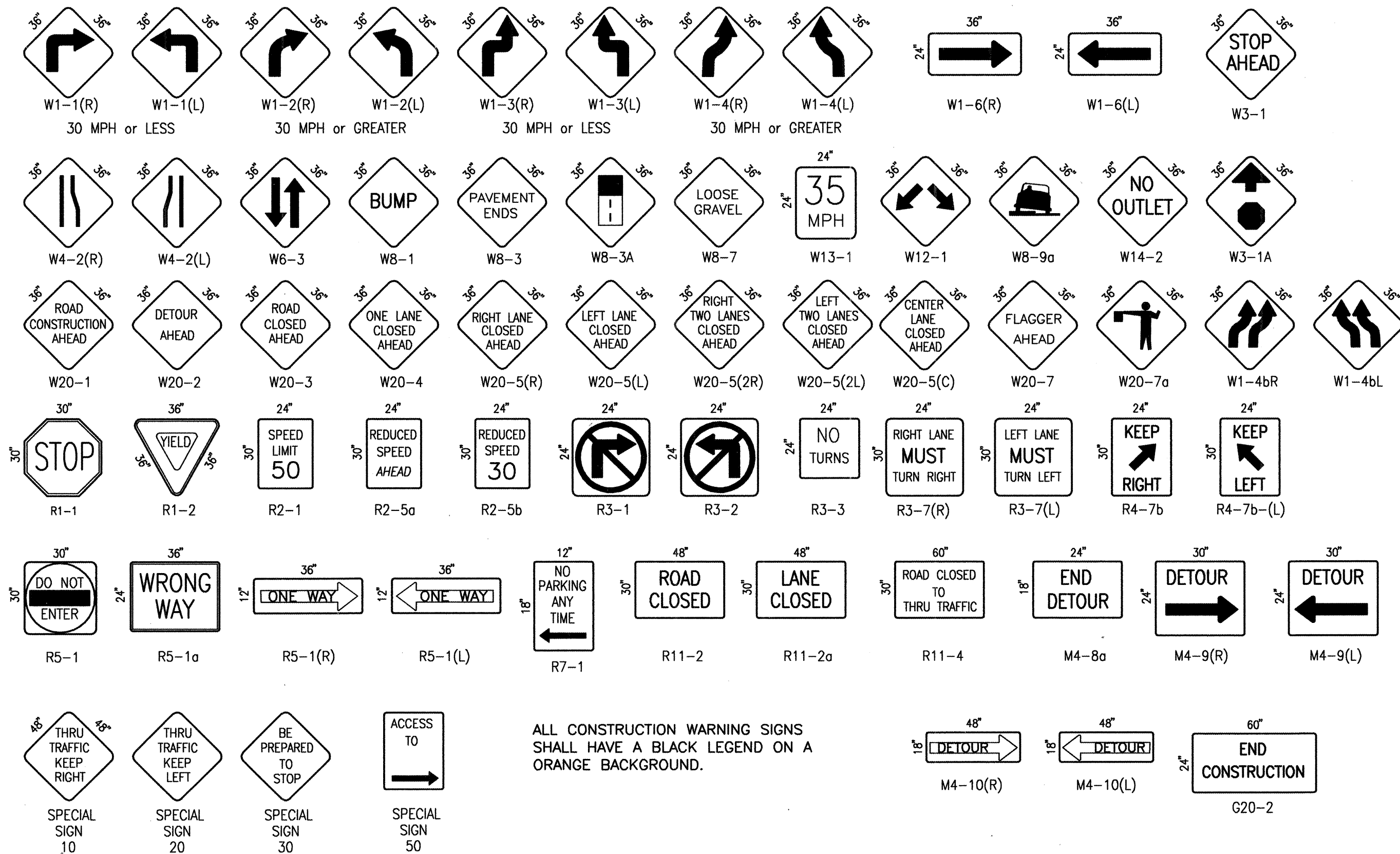
- CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.
- CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.
- THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.
- CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.
- CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.
- ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) 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 5A 4 OF THE MUTCD, LATEST EDITION.
- THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.
- CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.
- ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.
- ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACES 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.
- ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.
- EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.
- CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.
- CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.
- ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
- 48 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITAL, TRANSIT AUTHORITY, BUSINESSES AN/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.
- ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.
- EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHES OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.
- CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
  - STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
  - THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
  - SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.
- FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.
- ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

- TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.
- ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.
- THIS PROJECT IS SUBJECT TO ARTERIAL/COLLECTOR ROAD USAGE FEES OF \$0.01 PER SQUARE FOOT PER DAY OF BARRICADED AREA ON VENTURA STREET.
- FOR THE BERNALILLO COUNTY PORTIONS OF THIS PROJECT, "CONSTRUCTION COORDINATION" SHALL BE REPLACED WITH "TRAFFIC CONTROL MANAGER"
- THE PARKING OF CONSTRUCTION EQUIPMENT OR VEHICLES WITHIN PUBLIC RIGHT-OF-WAY SHALL NOT BE PERMITTED.
- LIQUIDATED DAMAGES (TRAFFIC CONTROL): A FULL CLOSURE OF VENTURA STREET NE BETWEEN ANAHEIM AVE NE AND HOLLY AVE NE WILL BE PERMITTED FOR A MAXIMUM OF 14 CONSECUTIVE CALENDAR DAYS AND A FULL CLOSURE HOLBROOK STREET NE WILL BE PERMITTED FOR A MAXIMUM OF 7 CONSECUTIVE CALENDAR DAYS. THE CONTRACTOR AGREES TO PAY AS LIQUIDATED DAMAGES THE AMOUNT OF SEVEN HUNDRED AND FIFTY DOLLARS (\$750.00) PER CALENDAR DAY FOR EACH DAY BEYOND THE ALLOWED TIME THAT CONTINUOUS TWO-WAY TRAFFIC IS NOT PROVIDED WITHIN VENTURA STREET NE, AND THE AMOUNT OF TWO HUNDRED AND FIFTY DOLLARS (\$250.00) PER CALENDAR DAY FOR EACH DAY BEYOND THE ALLOWED TIME THAT CONTINUOUS TWO-WAY TRAFFIC IS NOT PROVIDED WITHIN HOLBROOK STREET NE REPRESENTING MONETARY DAMAGE DUE TO LOSS OF TIME AND ADDITIONAL VEHICLE MILEAGE. LIQUIDATED DAMAGES PERTAINING TO TRAFFIC CONTROL ITEMS ARE ADDITIVE TO THOSE PERTAINING TO CONSTRUCTION TIME.
- THE CONTRACTOR SHALL PROVIDE 2 VARIABLE MESSAGE BOARDS ON VENTURA STREET, ONE IN EACH DIRECTION, FOR 7 DAYS PRIOR TO THE CLOSURE. THE MESSAGE SHALL NOTIFY THE PUBLIC OF THE CLOSURE AND SHALL INCLUDE THE EXPECTED DURATION OF THE CLOSURE.

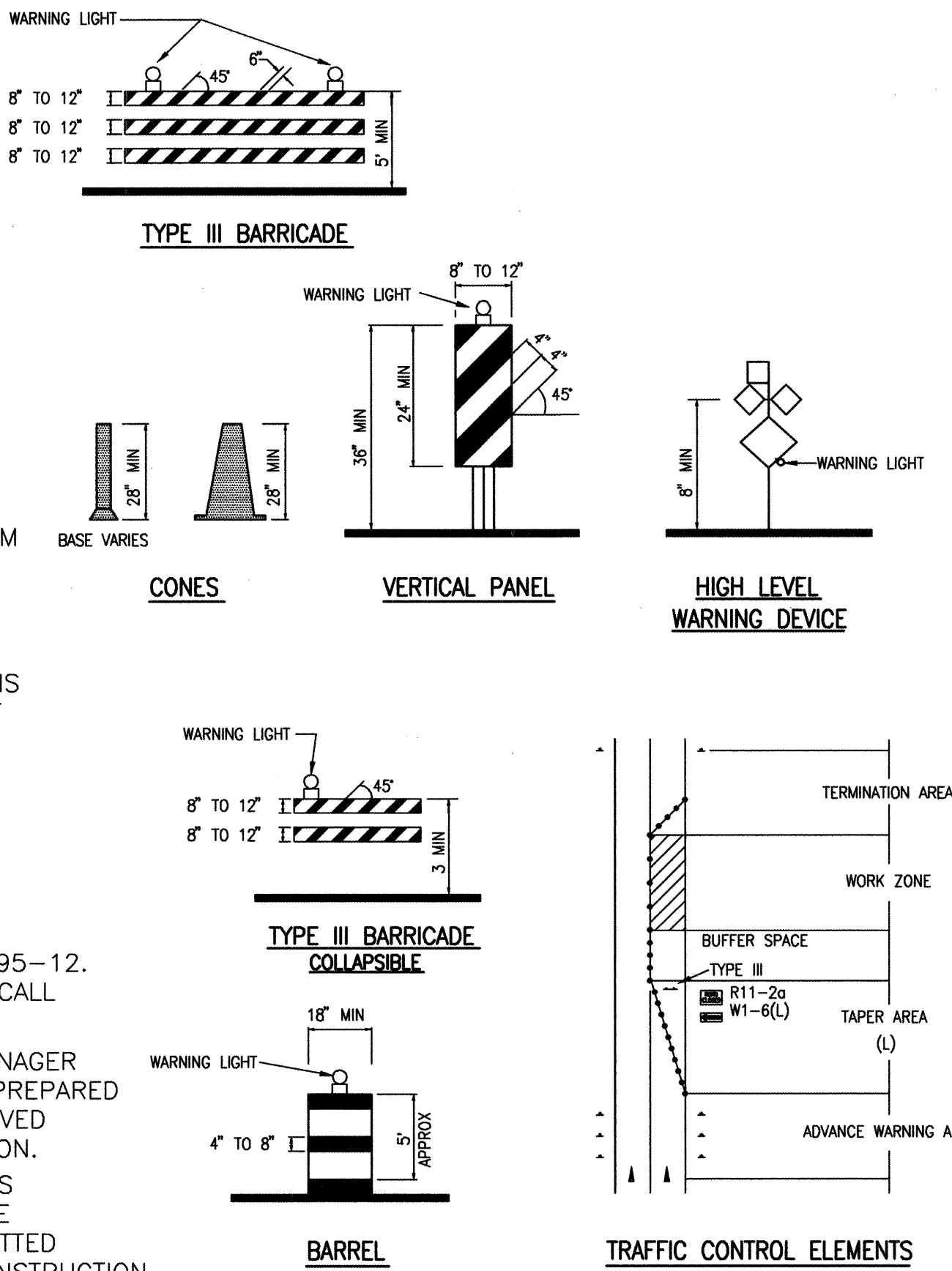
SPECIAL COUNTY TRAFFIC CONTROL NOTES

- PROJECT IS SUBJECT TO THE REQUIREMENTS OF COUNTY ORDINANCE NO. 96-3 AND ORDINANCE 95-12. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PERMITS NECESSARY. CONTRACTOR SHALL CALL 848-1500 FOR MORE INFORMATION.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE COUNTY TRAFFIC CONTROL MANAGER AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK. TRAFFIC CONTROL PLANS SHALL BE PREPARED IN ACCORDANCE WITH MUTCD REQUIREMENTS AND BY CERTIFIED PERSONNEL AND MUST BE APPROVED PRIOR TO COMMENCEMENT OF WORK ON THE PROJECT. CALL 848-1504 FOR FURTHER INFORMATION.
- A DAILY TRAFFIC CONTROL LOG SHALL BE MAINTAINED BY THE CONTRACTOR REFLECTING THE TYPES AND LOCATIONS OF ALL TRAFFIC CONTROL DEVICES, SIGNS, BARRICADES, ETC. BEING USED ON THE PROJECT IN COMPLIANCE WITH THE APPROVED TRAFFIC CONTROL PLAN THIS LOG SHALL BE SUBMITTED TO THE BERNALILLO COUNTY TRAFFIC CONTROL MANAGER UPON COMPLETION OF THE PROJECT CONSTRUCTION OR WHEN SO REQUESTED BY THE PROJECT OR THE BERNALILLO COUNTY TRAFFIC CONTROL MANAGER.
- CONTRACTOR SHALL PROVIDE A WEEKLY CONSTRUCTION ACTIVITY SCHEDULE TO BERNALILLO COUNTY PUBLIC WORKS DIVISION ATTN: TRAFFIC ENGINEERING MANAGER.
- THE CONTRACTOR SHALL FILE WEEKLY WRITTEN REPORT TO THE TRAFFIC CONTROL MANAGER DESCRIBING THE TRAFFIC CONTROL PLAN THAT WILL BE IN EFFECT FOR THE FOLLOWING WEEK.
- SUBJECT TO THE APPROVED TRAFFIC CONTROL PLAN, AT LEAST ONE LANE SHALL BE OPEN TO TRAFFIC AT ALL TIMES. CONTRACTOR SHALL PROVIDE PROPER SIGNAGE AND FLAGMAN AND SHALL MAINTAIN THE TRAFFIC LANE IN SUCH A MANNER AS TO ASSURE PROPER SAFETY TO THE TRAVELING PUBLIC ON ALL AFFECTED ROADS. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL PRIVATE AND PUBLIC PROPERTY AT ALL TIMES, EXCEPT WHEN GRADING, EXCAVATION AND BACKFILL OPERATIONS ARE BEING CONDUCTED IMMEDIATELY IN FRONT OF THE PROPERTY, IN WHICH CASE ACCESS WILL NOT BE DENIED FOR MORE THAN 4 HOURS WITHOUT PRIOR WRITTEN APPROVAL BY THE COUNTY.
- TRAFFIC LANES PROVIDED DURING CONSTRUCTION SHALL BE MAINTAINED IN SUCH A CONDITION UNDER ALL WEATHER CONDITIONS, SO AS TO PERMIT THE REASONABLE PASSAGE OF PASSENGER VEHICLES, AND SHALL BE KEPT GRADED AND SMOOTH AND WATERED SEVERAL TIMES DAILY TO CONTROL DUST.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL HOME OWNERS ON CARMEL AVE. N.E. WHICH ARE IMPACTED BY THE CONSTRUCTION OF THIS PROJECT, AND SHALL ENSURE THAT ACCESS TO EACH OF THESE PROPERTIES IS CONTINUALLY MAINTAINED.

SIGN FACE DETAILS



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



LEGEND

- WORK AREA
- BARRICADE - TYPE I, TYPE II OR BARREL
- BARRICADE - TYPE III
- VERTICAL PANEL
- WARNING SIGN
- DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
- FLAGMAN POSITION
- SPACING BETWEEN BARRICADES - A DISTANCE MEASURED IN FEET EQUAL TO THE 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 |                                     | 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                                          | $W \cdot S^2$    |
| 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 |                  |

SEE SHEET 1 FOR CONT.

RECORD DRAWING

2001.059.7 2002.053.3

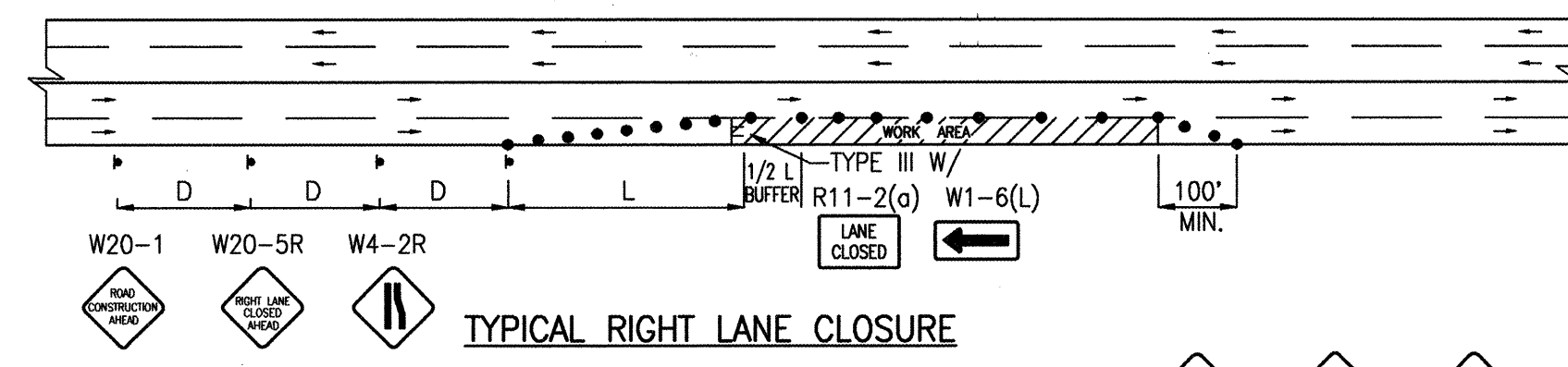
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|-------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING DEVELOPMENT GROUP                                                     |                        |
| TITLE: NORTH DOMINGO BACA ARROYO/<br>CARMEL AVENUE N.E. STORM DRAIN EXTENSION<br>SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS |                        |
| Design Review Committee                                                                                                             | City Engineer Approval |
| C.O.A. STD.                                                                                                                         | C.O.A. STD.            |
| City Project No. 693481                                                                                                             | Zone Map No. C20/21    |
| Sheet 19                                                                                                                            | Of 20                  |

SCANNED BY  
MESA REPRO

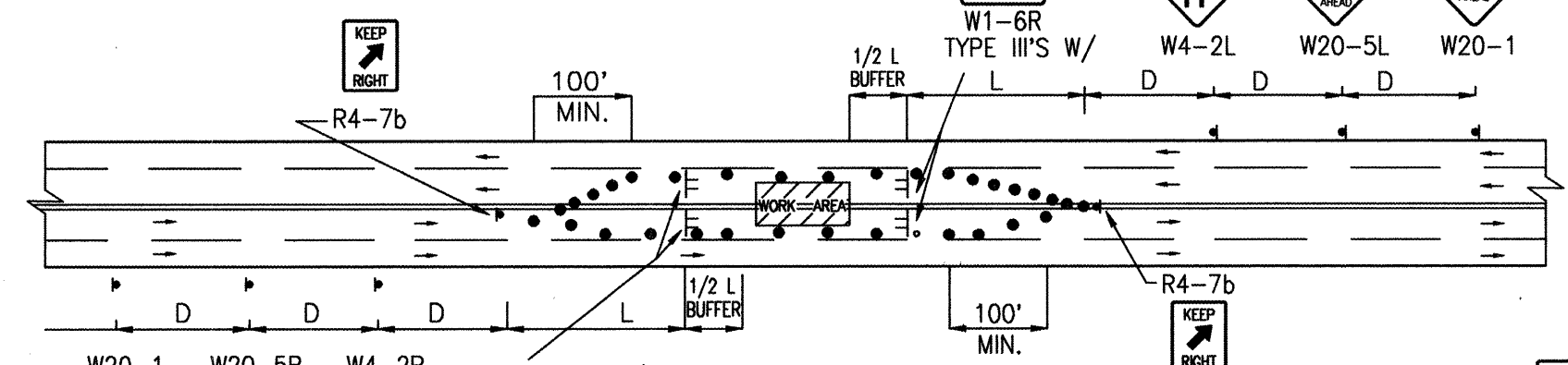
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Plot Name: 10597TR1.DWG  
Plot Date: 10-04-2002  
Plot Time: 2:50 pm



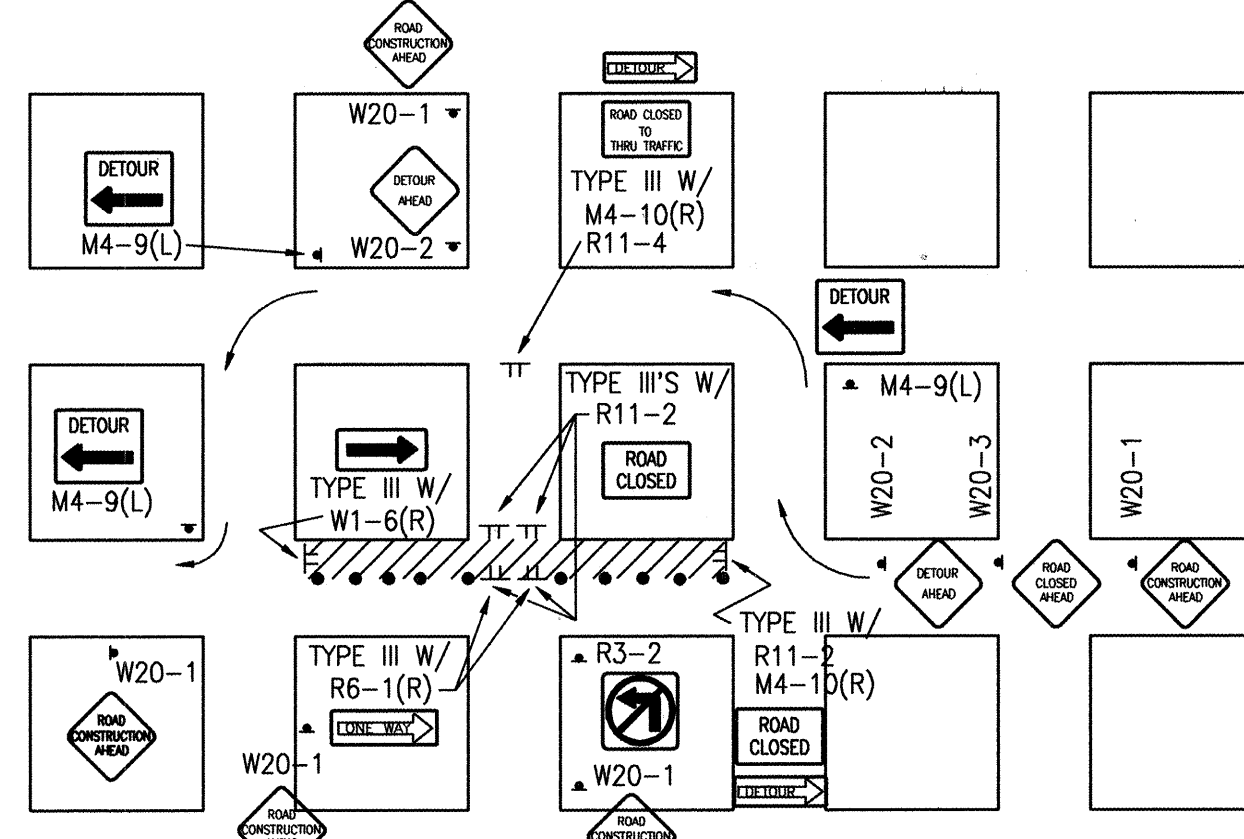
SCANNED BY  
MESA REPRO



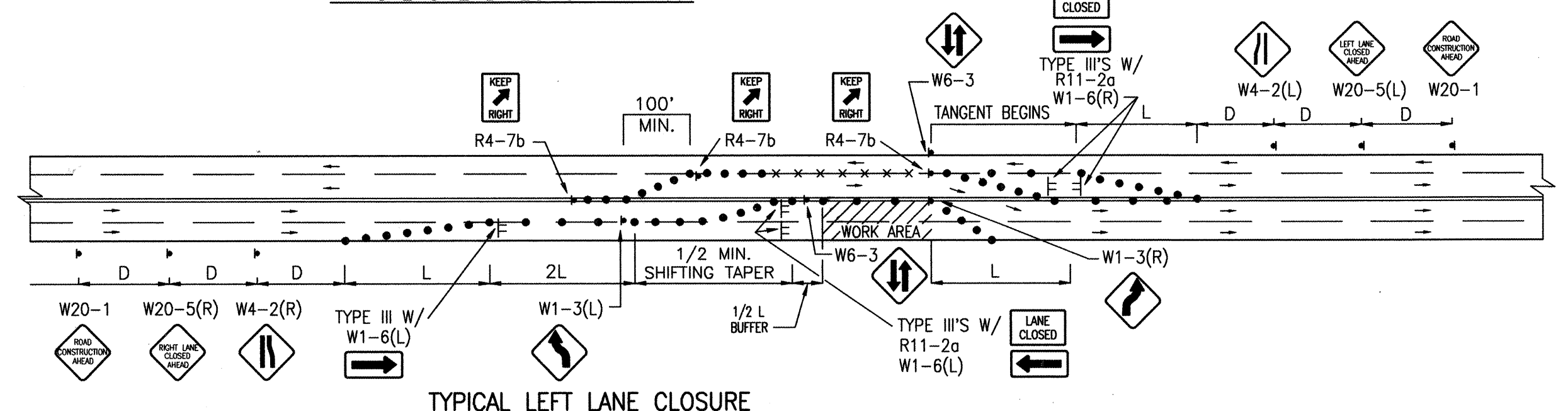
TYPICAL RIGHT LANE CLOSURE



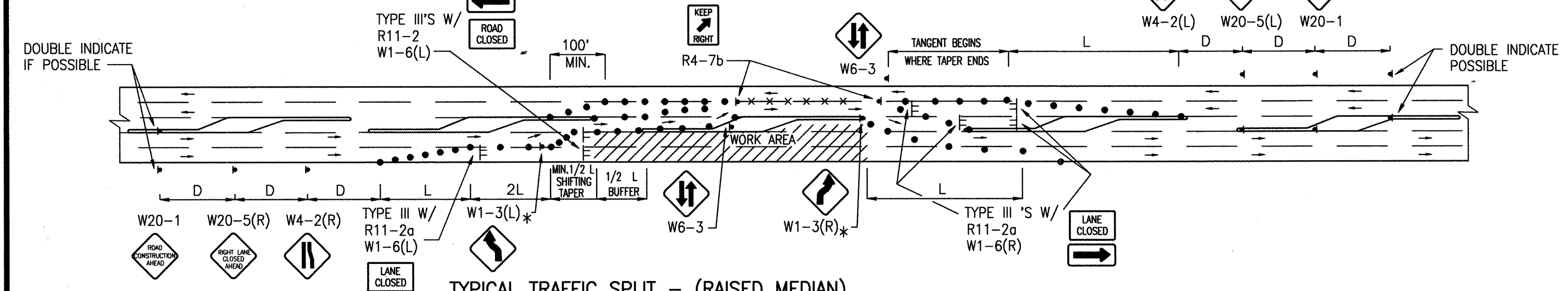
TYPICAL LEFT LANE CLOSURE



TYPICAL ONE DIRECTION DETOUR



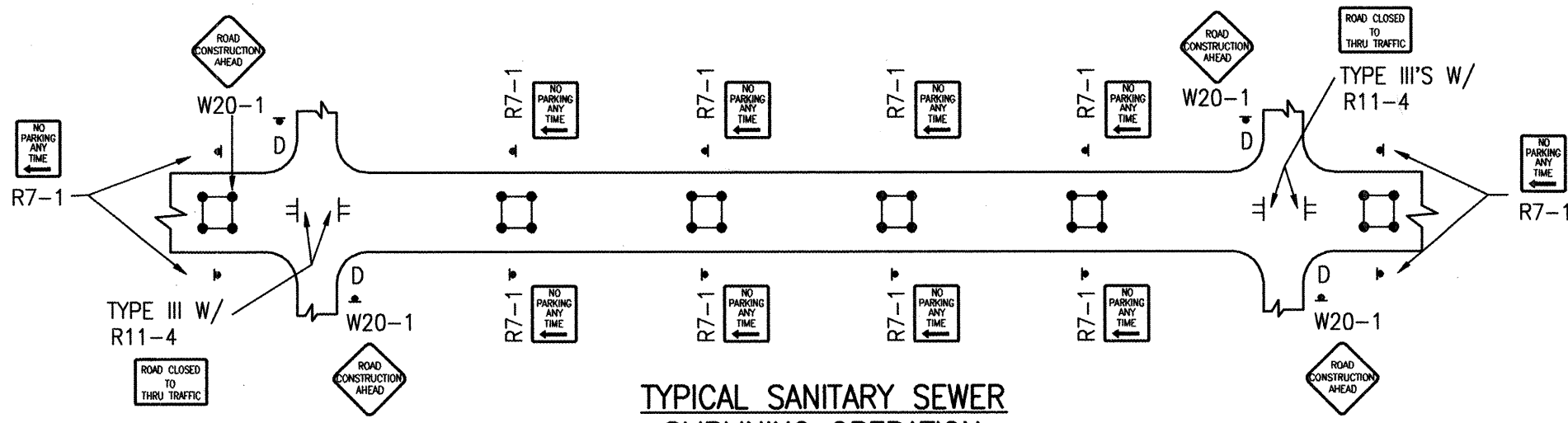
TYPICAL LEFT LANE CLOSURE



TYPICAL TRAFFIC SPLIT - (RAISED MEDIAN)

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.

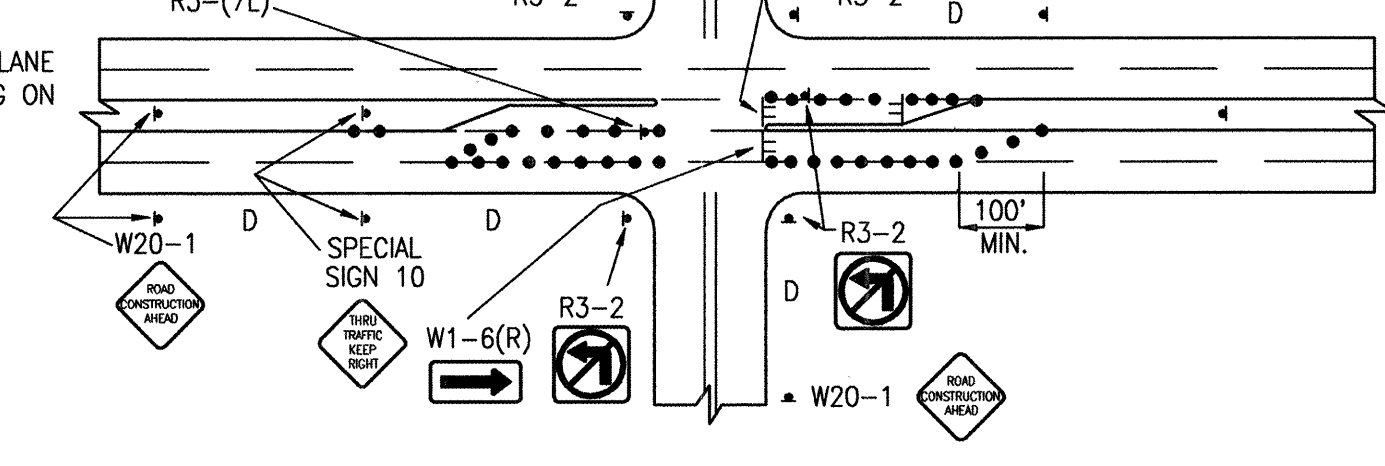


TYPICAL SANITARY SEWER SLIPLINING OPERATION

- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS
- ALL PITS TO HAVE FLAGLINE

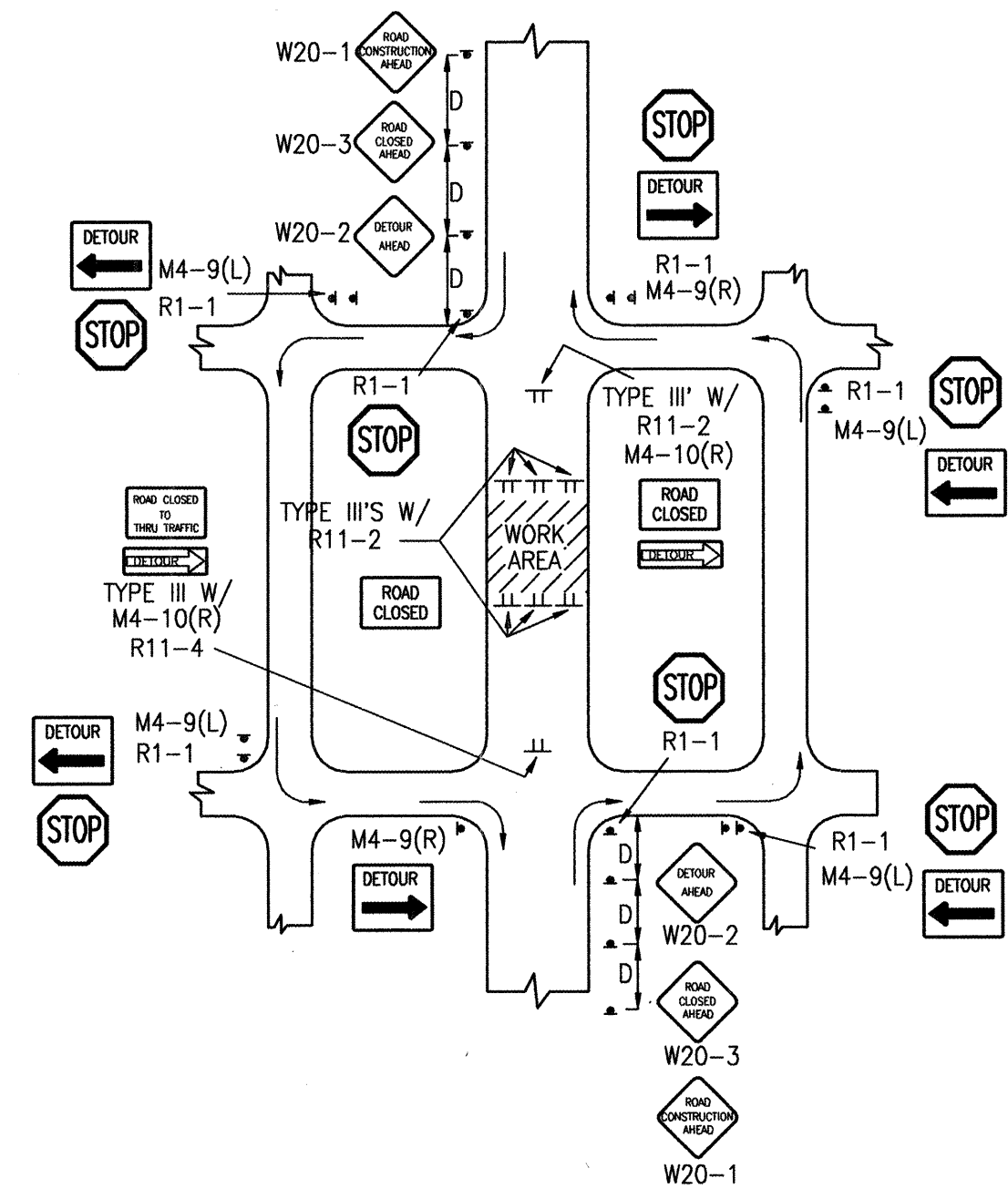
TYPICAL STREET CLOSURE

ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.  
ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF 36" THIRTY SIX INCHES BY 36" THIRTY SIX INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.



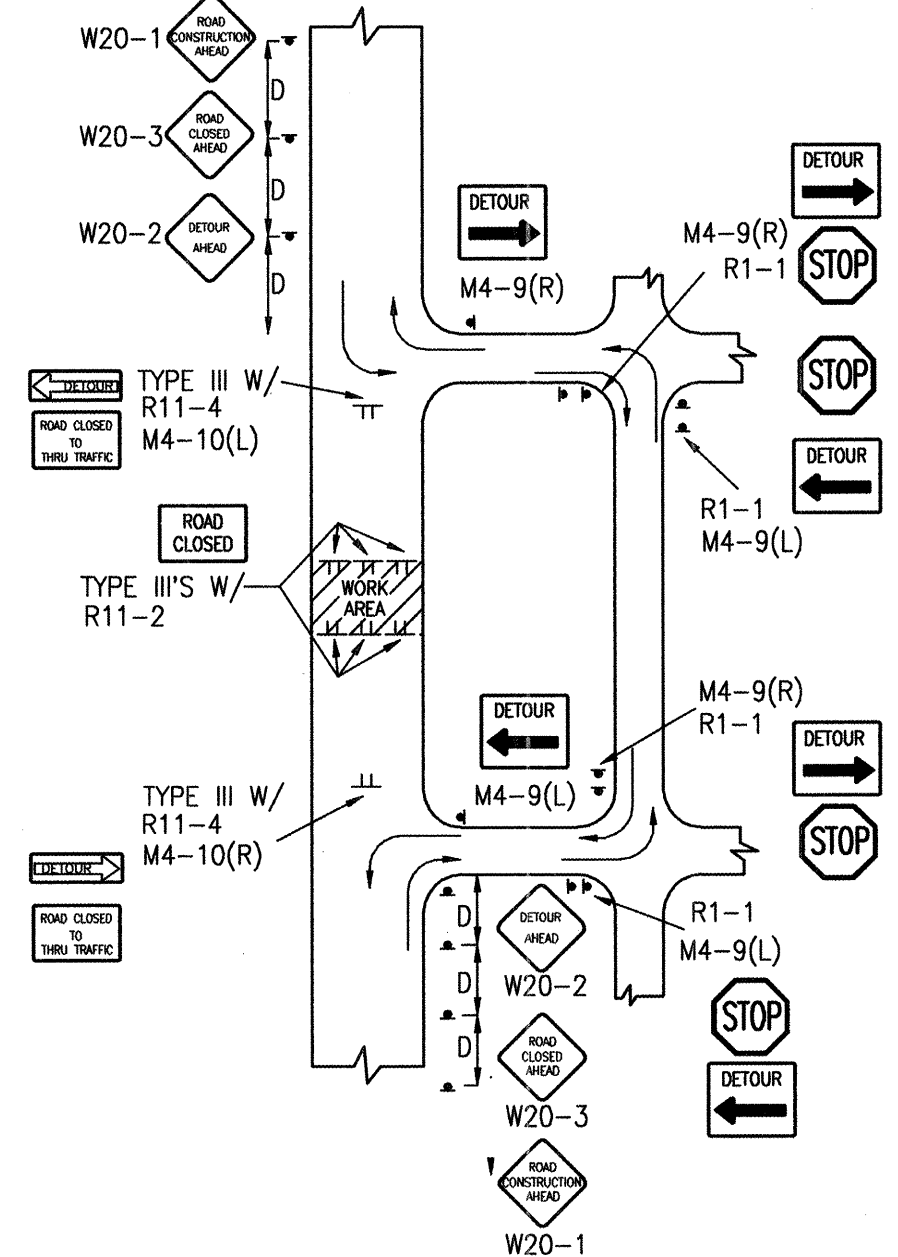
TYPICAL LANE CLOSURE AT INTERSECTION

NOTE: DEPENDING ON WORK ZONE LOCATION



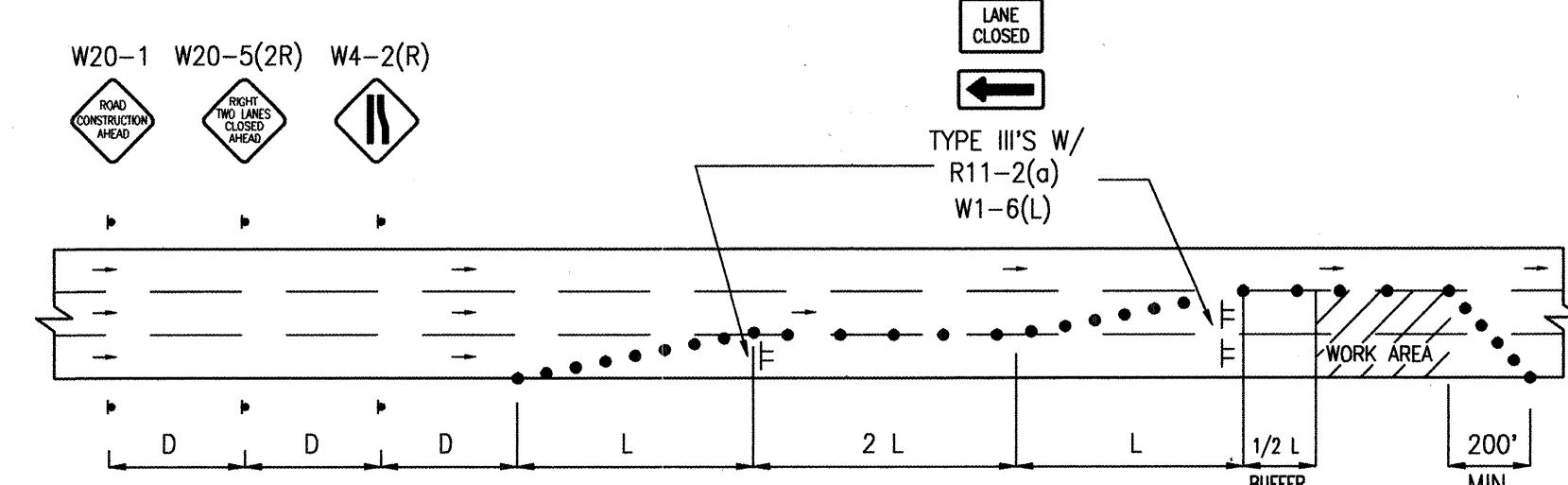
TYPICAL MID-BLOCK CLOSURE

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

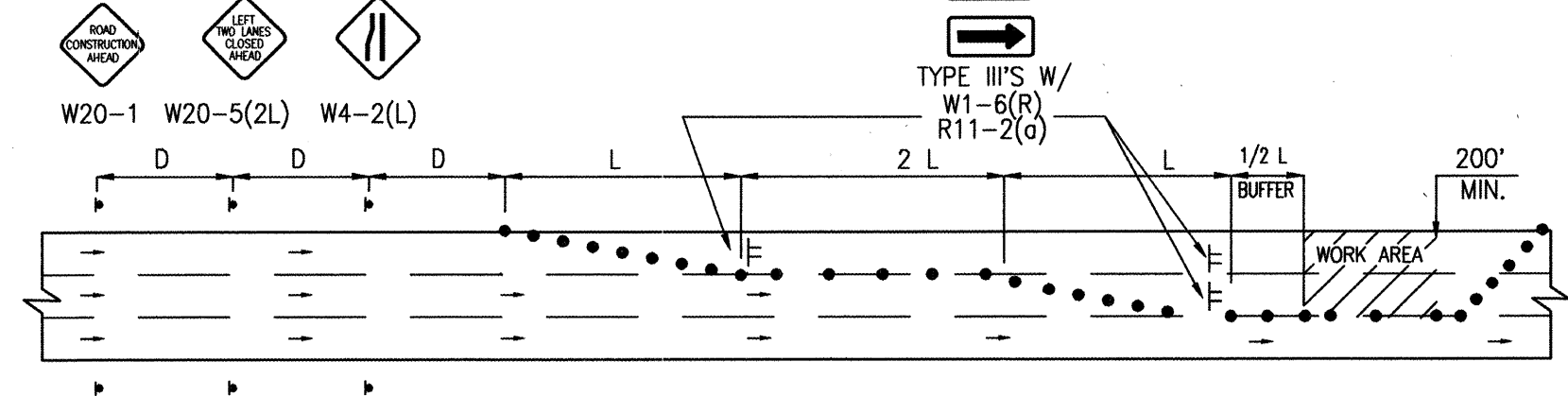


TYPICAL STREET CLOSURE

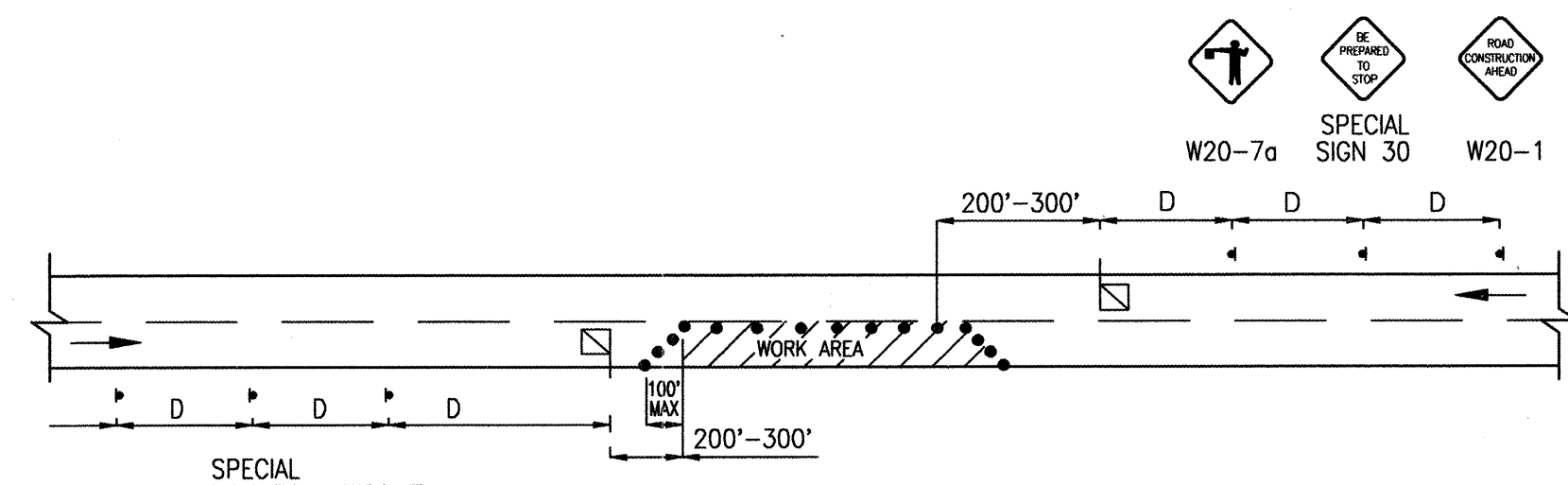
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



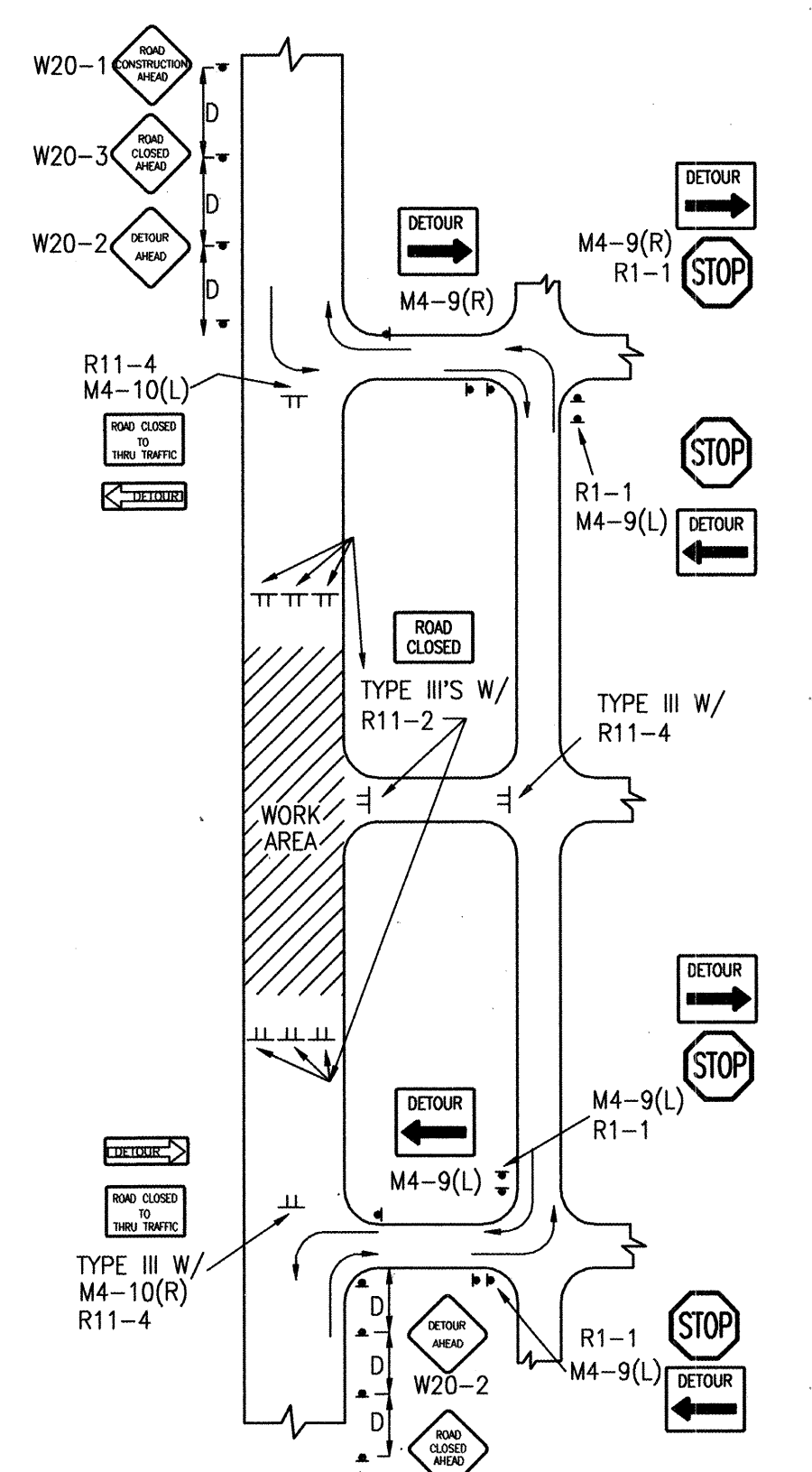
TYPICAL DOUBLE RIGHT LANE CLOSURE



TYPICAL DOUBLE RIGHT LANE CLOSURE

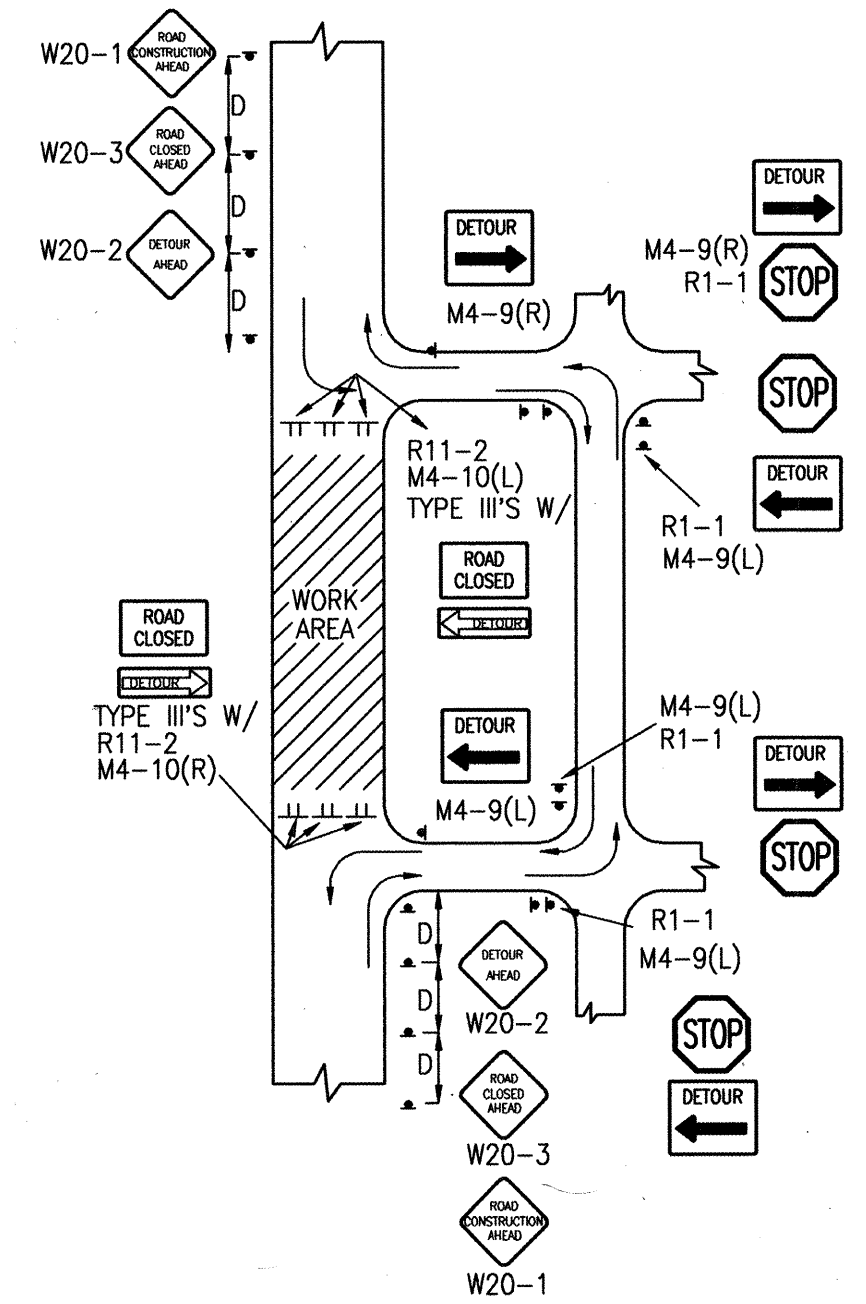


TYPICAL FLAGGING OPERATION



TYPICAL STREET CLOSURE

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



TYPICAL STREET CLOSURE

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

RECORD DRAWING

SEE SHEET 1 FOR CERT.

|                                                                                                                                               |                        |                    |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------|-------|
| 2001.059.7                                                                                                                                    |                        | 2002.053.3         |       |
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING DEVELOPMENT GROUP                                                               |                        |                    |       |
| TITLE: NORTH DOMINGO BACA ARROYO/<br>CARMEL AVENUE N.E. STORM DRAIN EXTENSION<br>TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.) |                        |                    |       |
| Design Review Committee                                                                                                                       | City Engineer Approval | Last Design Update |       |
| C.O.A. STD.                                                                                                                                   | C.O.A. STD.            |                    |       |
| City Project No. 693481                                                                                                                       | Zone Map No. C20/21    | Sheet 20           | Of 20 |

|                        |      |                        |      |                        |      |                        |      |
|------------------------|------|------------------------|------|------------------------|------|------------------------|------|
| AS BUILT INFORMATION   |      | BENCH MARKS            |      | SURVEY INFORMATION     |      | ENGINEER'S SEAL        |      |
| CONTRACTOR             | DATE | INSPECTOR              | DATE | NO.                    | BY   | DATE                   | DATE |
| ASB                    | 11/1 | ASB                    | 11/1 |                        |      |                        |      |
| REVISIONS              |      | REVISIONS              |      | REVISIONS              |      | REVISIONS              |      |
| NO.                    | DATE | NO.                    | DATE | NO.                    | DATE | NO.                    | DATE |
|                        |      |                        |      |                        |      |                        |      |
| MICRO-FILM INFORMATION |      | MICRO-FILM INFORMATION |      | MICRO-FILM INFORMATION |      | MICRO-FILM INFORMATION |      |
| RECORDED BY            | DATE | RECORDED BY            | DATE | RECORDED BY            | DATE | RECORDED BY            | DATE |
|                        |      |                        |      |                        |      |                        |      |

C.O.A. STANDARDS