CITY OF ALBUQUERQUE, NEW MEXICO

SOUTH ARROYO DE DOMINGO BACA

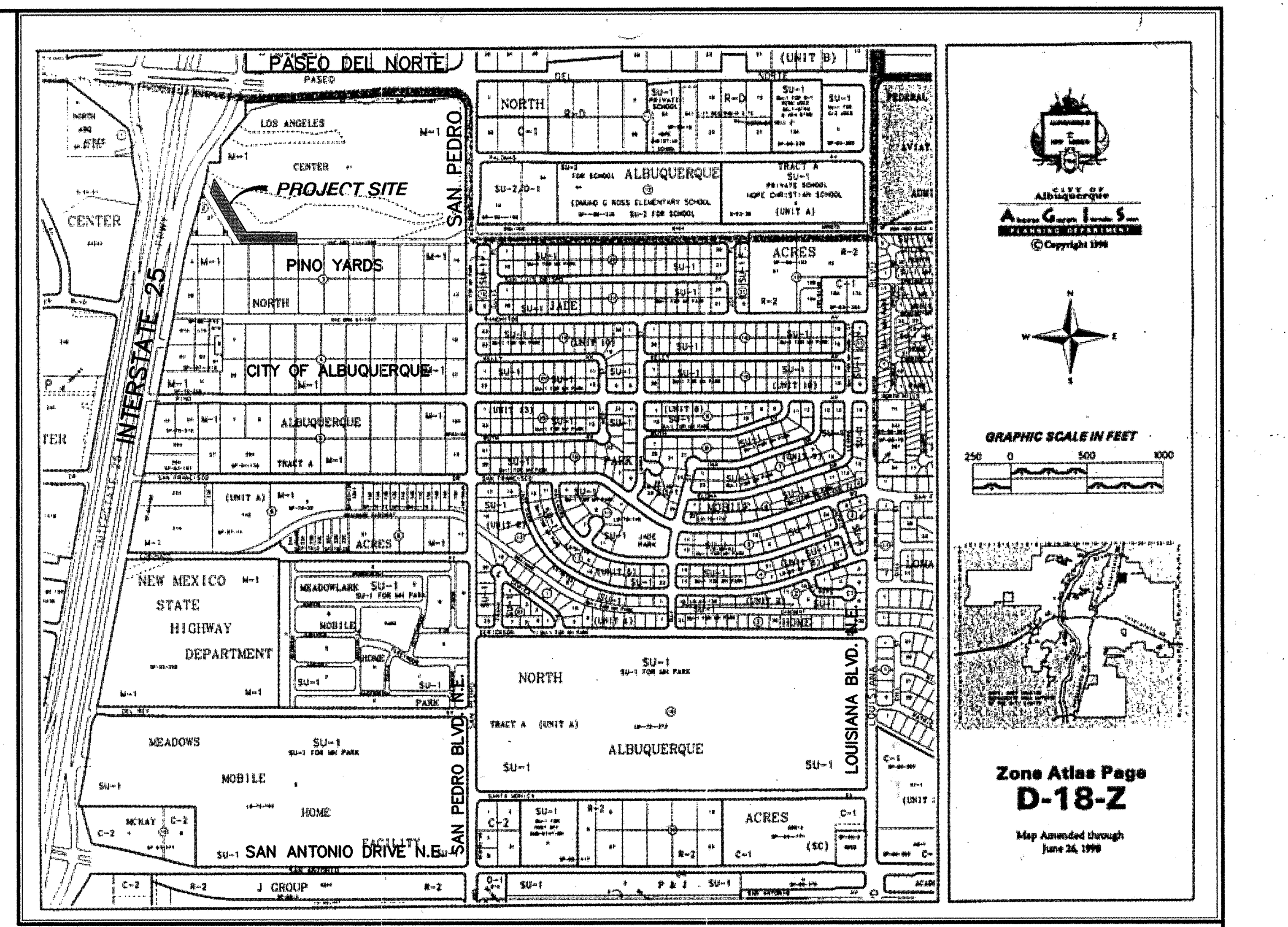
CHANNEL IMPROVEMENTS

(I-25 EAST TO STA. 18+75)

JULY 2003

SCANNED BY MESA REPRO

SCANNED BY MESA REPRO



VICINITY MAP

INDEX TO DRAWINGS

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GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED THRU UPDATE NO. 6.
2. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED OUT IN CONFORMANCE WITH OSHA 29CFR 1926.650, SUB-PART P.
3. CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER, AND SHALL BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEY SECTION. WHEN A CHANGE IS MADE IN ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF GENERAL CONDITIONS OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
4. 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 (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS.
5. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, INC. (260-1990) FOR LOCATION OF EXISTING UTILITIES.
6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING PAVEMENT. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
7. THE CONTRACTOR SHALL CONTACT WATER SYSTEMS DIVISION (857-8200) SEVEN (7) WORKING DAYS PRIOR TO NEEDING SHUT-OFF OR TURN-ON OF VALVES. ONLY CITY WATER SYSTEMS PERSONNEL ARE AUTHORIZED TO OPERATE VALVES.
8. RESTRAINED JOINTS ARE REQUIRED AT ALL WATER LINE BENDS, TEES, CAPS AND GATE VALVES. RESTRAINED JOINTS SHALL BE CONSIDERED INCIDENTAL TO OTHER ITEMS AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
9. THE PUBLIC WATER LINE MUST BE A MINIMUM OF 18" ABOVE THE SEWER LINE AT ALL CROSSINGS.
10. THE CONTRACTOR SHALL FURNISH EMD'S ON ALL WATER AND SEWER SERVICE STUBS, CAPS AND PLUGS.
11. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
12. BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
13. TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE PROJECT ENGINEER.
14. SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
15. IF CURB IS DEPRESSED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
16. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED BY CONTRACTOR WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS IN EXISTING STRIPING LOCATIONS UNLESS OTHERWISE INDICATED BY THIS PLAN SET.
17. ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES 24 HOUR CONSTRUCTION.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR, OR REMOVAL AND REPLACEMENT, OF ANY PAVEMENT, PAVEMENT MARKINGS, CURB AND GUTTER, DRIVEPADS, SIDEWALK, WHEELCHAIR RAMP OR ANY OTHER EXISTING IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS.
19. THE CONTRACTOR SHALL GRADE ALL AREAS DISTURBED BY THE CONSTRUCTION ACTIVITIES AND NOT SHOWN ON THESE PLANS TO RECEIVE OTHER SURFACE IMPROVEMENTS AS DIRECTED BY THE PROJECT ENGINEER, AND SHALL MULCH AND SEED ALL SUCH AREAS IN ACCORDANCE WITH SECTION 1012, "NATIVE GRASS SEEDING" OF THE STANDARD SPECIFICATIONS.

RECORD DRAWINGS

I, Charles M. Easterling, of the firm Easterling & Associates, Inc., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in general accordance with the plans and specifications approved by the City Engineer, except as noted herein, and that the original design intent of the approved plans has been met. Survey information provided by William W. Plotner Jr., NMPS number 14271.

CHARLES M. EASTERLING — NEW MEXICO — 6411 — REGISTERED PROFESSIONAL ENGINEER

6-11-04

FOR INFORMATION ONLY

SITE LOCATION:
LAT. 35° 10' 15" N
LONG. 106° 34' 55" W

UTILITY COMPANY CONTACTS

CITY OF ALBUQUERQUE
Principal Engineer, Utility Development
Greg Olson
P.O. Box 1293
Albuquerque, New Mexico 87103
Ph: (505) 768-2719
Fax: (505) 768-3629

PNM - Electric
Engineering Representative
Robert Garcia
420 Edith Blvd. NE
Albuquerque, New Mexico 87107
Ph: (505) 241-3334
Fax (505) 241-3620

PNM - GAS Co. of NM
Planning Engineer
Elisabeth Gabel
4625 Edith Blvd., NE MS-GS66
Albuquerque, New Mexico 87107
Ph: (505) 241-7745
Fax: (505) 241-7753

QWEST/US WEST
Capacity Provisioning Specialist
David Muller
201 Third Street NW, Suite 700
Albuquerque, New Mexico 87102
Ph: (505) 245-8706
Fax: (505) 245-6831

AT&T
Resource Supervisor
David Crowel
111 Third ST., NW
Albuquerque, New Mexico 87103
Ph: (505) 842-2911
Fax: (505) 842-2890

COMCAST
Planning and Design Supervisor
Rita Erickson
4611 Montbel Pl., NE
Albuquerque, NM 87107
Ph: (505) 761-6235
Fax: (505) 761-0599

MCI Worldcom
Operations Manager
Andy Darnell
3700 Singer Blvd. NE, Suite A
Albuquerque, New Mexico 87109
Ph: (505) 346-4476
Fax: (505) 346-4481

Time-Warner Telecom
Plant Manager
Roy Harrison
383 Singer Blvd. NE, Suite 1000
Albuquerque, New Mexico 87109
Ph: (505) 938-7339
Fax (505) 938-7380

Espire Communications
Engineering Representative
John Mares
505 Marquette Ave. NW, Suite 1605
Albuquerque, New Mexico 87102
Ph: (505) 998-2274
Fax: (505) 998-9161

McLeod USA
Supervisor of Outside Techs.
Rick Mueller
505 Marquette Ave. NW, Suite 1600
Albuquerque, New Mexico 87102
Ph: (505) 244-3161
Fax: (505) 244-0094

CityNet Telecommunications
Consultant
Joshua Nelson
505 Marquette Ave. NW, Suite 119-A
Albuquerque, New Mexico 87102
Ph: (505) 991-2120
Fax: (505) 217-0070

Genuity
Supervisor - OSP Maintenance
Tom Turley
50 Centre on the Lake
Lake Saint Louis, MO 63367
Ph: (636) 561-0339
Fax: (636) 561-0355

NOTE

THE ENGINEER HAS UNDERTAKEN LIMITED FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY 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. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.

NOTE

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

NOTE

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE INTENDED FOR USE ON THIS PROJECT AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF EASTERLING & ASSOCIATES, INC. IN THE EVENT OF UNAUTHORIZED USE, THE USER ASSUMES ALL RESPONSIBILITY AND LIABILITY WHICH RESULTS.

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

ENGINEER'S STAMP & SIGNATURE: REGISTERED ENGINEER — STATE OF NEW MEXICO — 5258 — HANS H. COUCHERON-AAMOT — 6-5-03

APPROVALS	ENGINEER	DATE
DRC CHAIR	[signature]	6-24-03
TRANSPORTATION	[signature]	6-11-03
WATER/WASTEWATER	[signature]	6-9-03
HYDROLOGY	[signature]	6-9-03
PARKS		
CONSTR. MGM'T.		
CONSTR. COORD.	[signature]	6-9-03

*************** APPROVED FOR CONSTRUCTION

[signature] 6/24/03
CITY ENGINEER

DATE

Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501
E-Mail: eai_engr@swcp.com

CITY PROJECT NO. 6050.92

SHEET 1 OF 10

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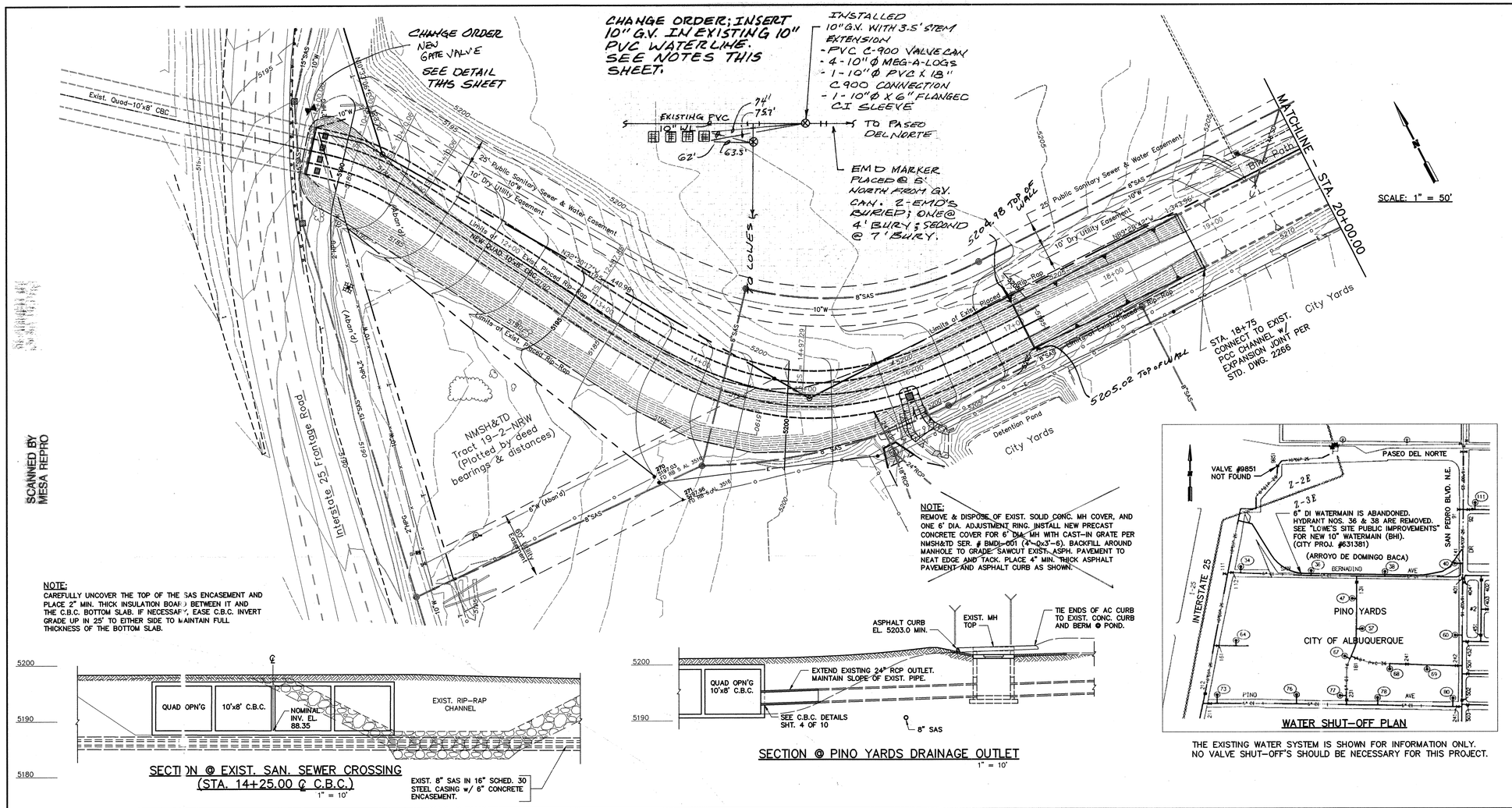


NOTE:
CAREFULLY UNCOVER THE TOP OF THE SAS ENCASEMENT AND PLACE 2" MIN. THICK INSULATION BOARD BETWEEN IT AND THE C.B.C. BOTTOM SLAB. IF NECESSARY, EASE C.B.C. INVERT GRADE UP IN 25' TO EITHER SIDE TO MAINTAIN FULL THICKNESS OF THE BOTTOM SLAB.

NOTE:
REMOVE & DISPOSE OF EXIST. SOLID CONC. MH COVER, AND ONE 6' DIA. ADJUSTMENT RING. INSTALL NEW PRECAST CONCRETE COVER FOR 6' DIA. MH WITH CAST-IN GRATE PER NMSH&TD SER. # BMD-001 (4'-0x3'-6). BACKFILL AROUND MANHOLE TO GRADE. SAWCUT EXIST. ASPH. PAVEMENT TO NEAT EDGE AND TACK. PLACE 4" MIN. THICK ASPHALT PAVEMENT AND ASPHALT CURB AS SHOWN.

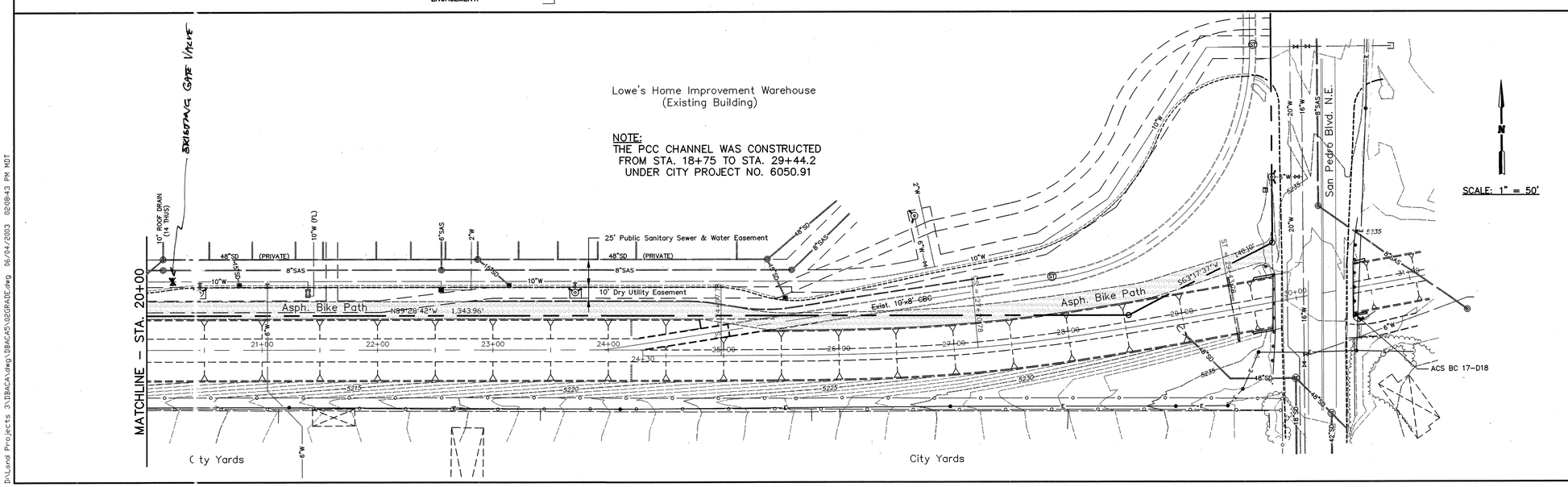
SECTION @ EXIST. SAN. SEWER CROSSING
(STA. 14+25.00 ℄ C.B.C.)
1" = 10'

SECTION @ PINO YARDS DRAINAGE OUTLET
1" = 10'

WATER SHUT-OFF PLAN

THE EXISTING WATER SYSTEM IS SHOWN FOR INFORMATION ONLY. NO VALVE SHUT-OFF'S SHOULD BE NECESSARY FOR THIS PROJECT.

NOTES
1. EXISTING GROUND ELEVATION = 5191.43 ABOVE EXISTING 10" PVC WATERLINE @ INSTALLED G.V.
2. EXISTING TOP OF 10" PVC WATERLINE ELEVATION = 5182.93 @ INSTALLED G.V..
3. TOP SOUTH CORNER OF EXISTING CBC PARRAPET WALL ELEVATION = 5189.40.



FOR INFORMATION ONLY

RECORD DRAWING 6-11-04

Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501
E-Mail: cmeasterling@wilsonco.com

AS BUILT INFORMATION
CONTRACTOR Moore & Cowart DATE 5-31-04
WORK STAKED BY Cartesian DATE 5-31-04
FIELD VERIFICATION BY Wilson & Co DATE 3-31-04
ACCEPTANCE BY Wilson & Co DATE 5-28-04
FIELD VERIFICATION BY Easterling DATE 6-11-04
DRAWINGS CORRECTED BY Easterling DATE 6-11-04
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS ALUM. CAP "9-C18 1985"
X= 402,255.61 Y= 1,521,435.09 (NAD 1927)
ELEV. 5229.79 (SLD 1929)
ACS BC 17-D18
X= 402,438.55 Y= 1,518,290.84 (NAD 1927)
ELEV. 5236.58 (SLD 1929)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
	BOHANNAN-HUSTON, INC.	
	TOPOGRAPHIC MAP OF	
	PLAZA DEL PASEO - 7/98	
	ADD'L POINTS AS REQUIRED	
	BY SURV-TEK. - 12/98	

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER 5258 NEW MEXICO CHRIS A. COUCHMAN 6-5-03

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY HC-A DATE 6-04-03
DRAWN BY HC-A DATE 6-04-03
CHECKED BY CME DATE 6-04-03

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SOUTH ARROYO DE DOMINGO BACA
(I-25 EAST TO STA. 18+75)
GRADING PLAN

DESIGN REVIEW COMMITTEE: APPROVED JUN 2 4 2003 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED JUN 2 4 2003 CITY ENGINEER
LAST DESIGN UPDATE | Mo./DAY/YR. | Mo./DAY/YR.

CITY PROJECT No.	ZONE MAP NO.	SHEET	OF
6050.92	D-18	2	10

SCANNED BY MESA REPRO
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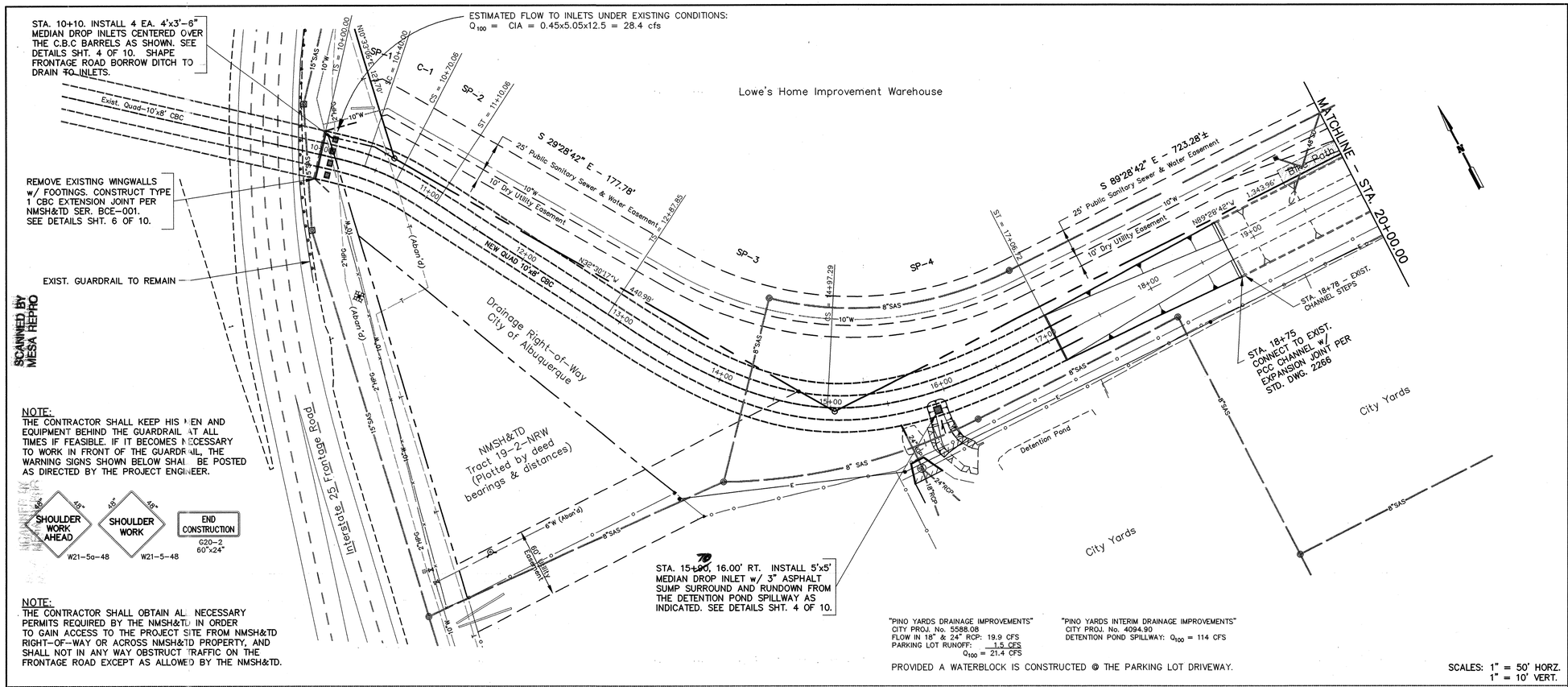
STA. 10+10. INSTALL 4 EA. 4'x3'-6" MEDIAN DROP INLETS CENTERED OVER THE C.B.C BARRELS AS SHOWN. SEE DETAILS SHT. 4 OF 10. SHAPE FRONTAGE ROAD BORROW DITCH TO DRAIN TO INLETS.

ESTIMATED FLOW TO INLETS UNDER EXISTING CONDITIONS:
Q_{100} = CIA = 0.45x5.05x12.5 = 28.4 cfs

REMOVE EXISTING WINGWALLS w/ FOOTINGS. CONSTRUCT TYPE 1 CBC EXTENSION JOINT PER NMSH&TD SER. BCE-001. SEE DETAILS SHT. 6 OF 10.

EXIST. GUARDRAIL TO REMAIN



STA. 15+00, 16.00' RT. INSTALL 5'x5' MEDIAN DROP INLET w/ 3" ASPHALT SUMP SURROUND AND RUNDOWN FROM THE DETENTION POND SPILLWAY AS INDICATED. SEE DETAILS SHT. 4 OF 10.

"PINO YARDS DRAINAGE IMPROVEMENTS"
CITY PROJ. No. 5588.08
FLOW IN 18" & 24" RCP: 19.9 CFS
PARKING LOT RUNOFF: 1.5 CFS
Q_{100} = 21.4 CFS

"PINO YARDS INTERIM DRAINAGE IMPROVEMENTS"
CITY PROJ. No. 4094.90
DETENTION POND SPILLWAY: Q_{100} = 114 CFS

PROVIDED A WATERBLOCK IS CONSTRUCTED @ THE PARKING LOT DRIVEWAY.

SCALES: 1" = 50' HORZ.
1" = 10' VERT.

SCANNED BY MESA REPRO

NOTE:
THE CONTRACTOR SHALL KEEP HIS MEN AND EQUIPMENT BEHIND THE GUARDRAIL AT ALL TIMES IF FEASIBLE. IF IT BECOMES NECESSARY TO WORK IN FRONT OF THE GUARDRAIL, THE WARNING SIGNS SHOWN BELOW SHALL BE POSTED AS DIRECTED BY THE PROJECT ENGINEER.

NOTE:
THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED BY THE NMSH&TD IN ORDER TO GAIN ACCESS TO THE PROJECT SITE FROM NMSH&TD RIGHT-OF-WAY OR ACROSS NMSH&TD PROPERTY, AND SHALL NOT IN ANY WAY OBSTRUCT TRAFFIC ON THE FRONTAGE ROAD EXCEPT AS ALLOWED BY THE NMSH&TD.

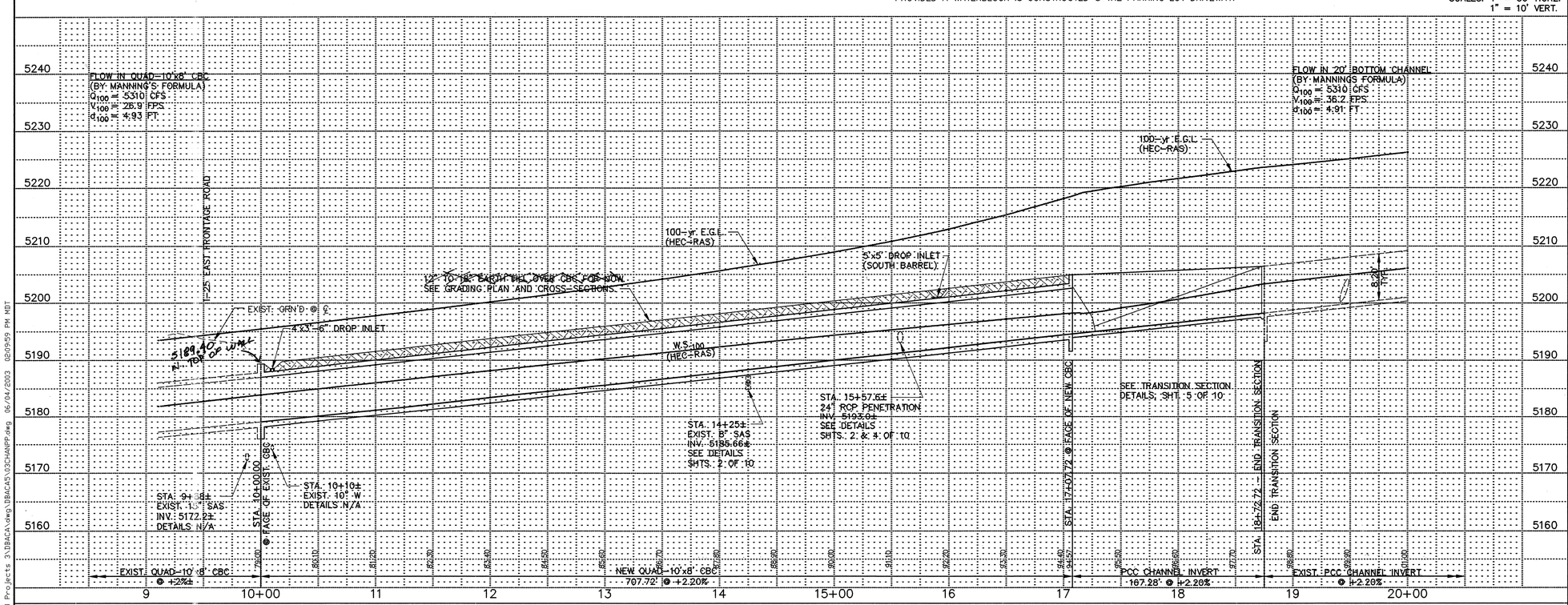
SP-1 (Clothoid)		
TS . . .	North: 1518709.19	East: 400605.73
SPI. . . .	North: 1518691.88	East: 400626.04
SC . . .	North: 1518682.25	East: 400635.28
K : 19.99		P : 0.33
A : 89.44		Tau : 0.10
Xs: 39.96		Ys: 1.33
Long Tan : 26.68		Course: S 49-33-00 E
Short Tan: 13.35		Course: S 43-49-14 E
Length: 40.00	Radius: 200.00	Theta: 5-43-46

C-1		
Begin	North: 1518659.08	East: 400654.39
Radial Point. .	North: 1518543.77	East: 400490.97
End	North: 1518682.25	East: 400635.28
PI	North: 1518671.39	East: 400645.70
Tangent: 15.06	Chord: 30.04	Course: N 39-30-51 W
Arc Length: 30.06	Radius: 200.00	Delta: 8-36-45

SP-2 (Clothoid)		
TS . . .	North: 1518624.95	East: 400675.21
SPI. . . .	North: 1518648.18	East: 400662.08
SC . . .	North: 1518659.08	East: 400654.39
K : 19.99		P : 0.33
A : 89.44		Tau : 0.10
Xs: 39.96		Ys: 1.33
Long Tan : 26.68		Course: N 29-28-42 W
Short Tan: 13.35		Course: N 35-12-28 W
Length: 40.00	Radius: 200.00	Theta: 5-43-46

SP-3 (Clothoid)		
TS . . .	North: 1518470.18	East: 400762.70
SPI. . . .	North: 1518346.84	East: 400832.42
SC . . .	North: 1518310.43	East: 400894.17
K : 103.77		P : 9.05
A : 204.67		Tau : 0.52
Xs: 203.77		Ys: 35.84
Long Tan : 141.69		Course: S 29-28-42 E
Short Tan: 71.69		Course: S 59-28-42 E
Length: 209.44	Radius: 200.00	Theta: 30-00-00

SP-4 (Clothoid)		
TS . . .	North: 1518272.74	East: 401097.61
SPI. . . .	North: 1518274.03	East: 400955.93
SC . . .	North: 1518310.43	East: 400894.17
K : 103.77		P : 9.05
A : 204.67		Tau : 0.52
Xs: 203.77		Ys: 35.84
Long Tan : 141.69		Course: N 89-28-42 W
Short Tan: 71.69		Course: N 59-28-42 W
Length: 209.44	Radius: 200.00	Theta: 30-00-00



AS BUILT INFORMATION
CONTRACTOR Moore & Company DATE 3-31-04
STAKED BY Castesian DATE 3-31-04
INSPECTOR'S ACCEPTANCE BY Wilson & Co DATE 5-28-04
FIELD VERIFICATION BY Wilson & Co DATE 3-31-04
DRAWINGS CORRECTED BY Easterling DATE 6-11-04
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS ALUM. CAP "9-C18 1985"
X= 402,255.61 Y= 1,521,435.09 (NAD 1927)
ELEV. 5229.79 (SLD 1929)
ACS BC 17-D18
X= 402,438.55 Y= 1,518,290.84 (NAD 1927)
ELEV. 5236.58 (SLD 1929)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
	BOHANNAN-HUSTON, INC.	
	TOPOGRAPHIC MAP OF	
	PLAZA DEL PASEO - 7/98	
	ADD'L POINTS AS REQUIRED	
	BY SURV-TEK - 12/98	

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER No. 5258 NEW MEXICO HANS A. COUCHMAN
6-11-04

FOR INFORMATION ONLY

RECORD DRAWING 6-11-04

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY HC-A DATE 6-04-03
DRAWN BY HC-A DATE 6-04-03
CHECKED BY CME DATE 6-04-03

Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501
E-Mail: eal_engr@swcp.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SOUTH ARROYO DE DOMINGO BACA (I-25 EAST TO STA. 18+75)
PLAN & PROFILE - STA. 10+00 TO STA. 20+00

DESIGN REVIEW COMMITTEE: JUN 2 4 2003 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: JUN 2 4 2003 CITY ENGINEER
LAST DESIGN UPDATE: Mo./DAY/YR. Mo./DAY/YR.

CITY PROJECT No.	ZONE MAP NO.	SHEET	OF
6050.92	D-18	3	10

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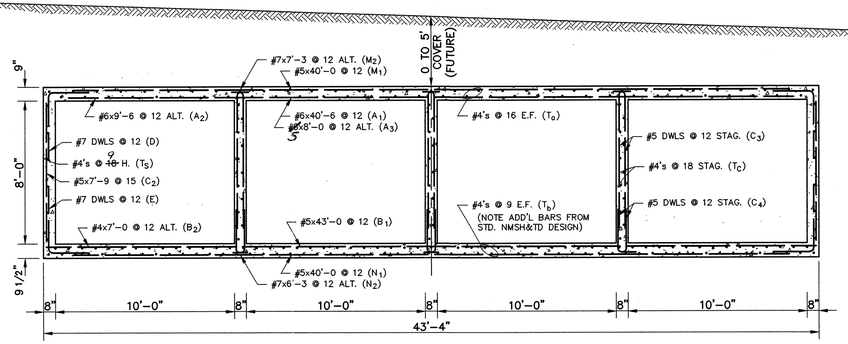
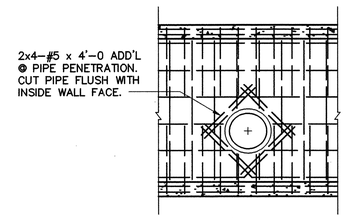


TYPICAL SECTION THRU QUAD-10'x8' CBC
1/4" = 1'-0"

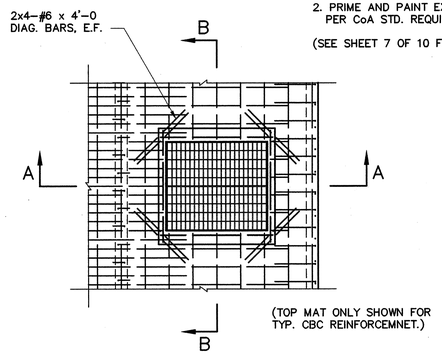
NOTES:
1. THE CONCRETE BOX CULVERT SHALL BE CONSTRUCTED IN ACCORDANCE WITH NMSH&TD SERIAL CB-34, SHEETS 1 & 2 OF 5 (DESIGN No. 1) EXCEPT AS OTHERWISE INDICATED HEREIN.
2. CAREFULLY MAINTAIN SPACING OF TRANSVERSE BARS @ THE C.B.C. CENTERLINE AND PLACE BARS RADIALLY AROUND CURVES, SUCH THAT THE REINFORCING STEEL WILL BE MAINTAINED WITHIN ±10% OF THE NOMINAL DESIGN.
3. ADD SINGLE CURTAIN #4 BARS @ 9" O.C. IN OUTSIDE WALLS (HORIZONTAL) PER AMAFCA REQUEST



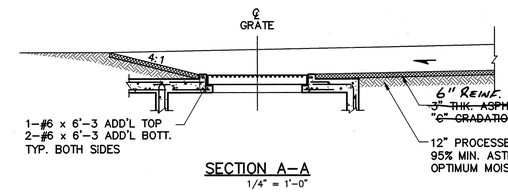
CBC WALL ELEVATION
@ 24" RCP PIPE PENETRATION
(SEE SHT. 2 OF 10)
1/4" = 1'-0"

NOTES:
1. FURNISH AND INSTALL GRATES AND SEAT ANGLES PER NMSH&TD SER. BMDI-006.
2. PRIME AND PAINT EXPOSED STEEL PER CoA STD. REQUIREMENTS.

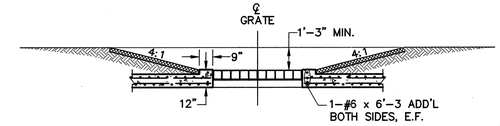
(SEE SHEET 7 OF 10 FOR GRATE DETAILS.)



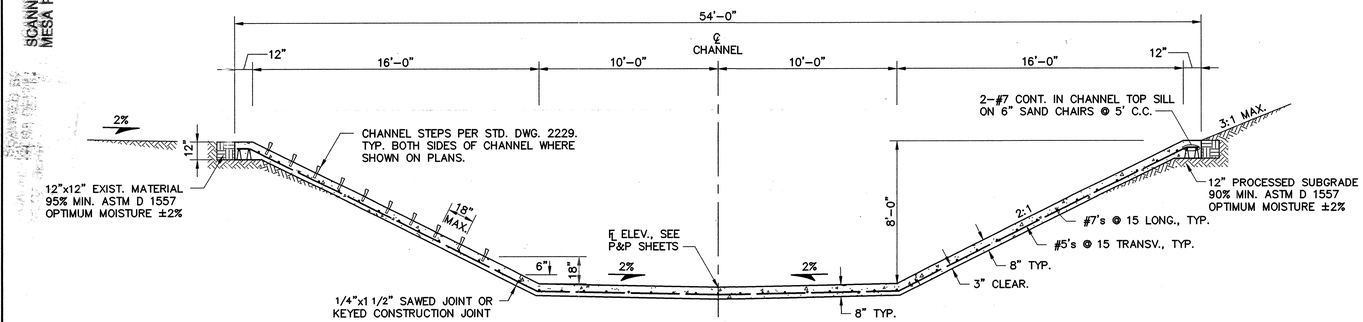
PLAN SECTION @ 5'x5' MEDIAN DROP INLET
IN C.B.C. ROOF SLAB @ STA. 15+~~90~~ 70, 16' RT.
1/4" = 1'-0"



SECTION A-A
1/4" = 1'-0"

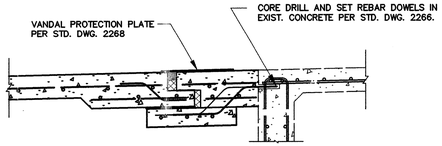


SECTION B-B
1/4" = 1'-0"

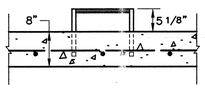


TYPICAL SECTION @ 20' BOTTOM CHANNEL
1/4" = 1'-0"

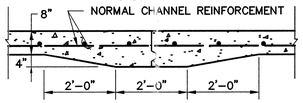
NOTE:
SEE STD. DWG'S 2265 & 2268 FOR GENERAL NOTES AND DIMENSIONS.
BOTTOM FILLER (KB) = 2" WIDE x 6" DEEP.
TOP FILLER (KT) = 3" WIDE x 3 3/4" DEEP.
SEALANT BLOCK-OUT = 3" WIDE x 2 1/2" DEEP.
SEALANT ORDER SIZE = 3 3/4" WIDE x 2 1/2" DEEP.



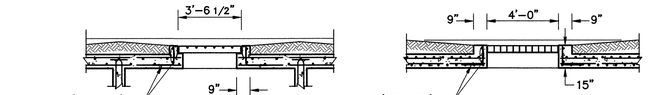
EXPANSION JOINT @ STA. 18+72.72
AND CONNECTION TO THE EXIST. CHANNEL
1/2" = 1'-0"



SECTION @ SIDESLOPE LADDER
3/4" = 1'-0"

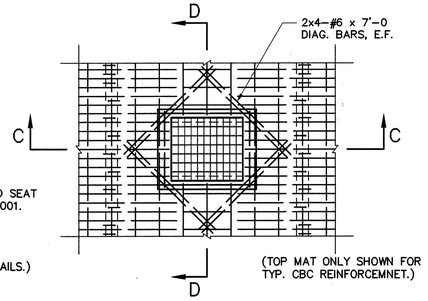


CONSTRUCTION JOINT DETAIL
1/2" = 1'-0"



SECTION D-D
1/4" = 1'-0"

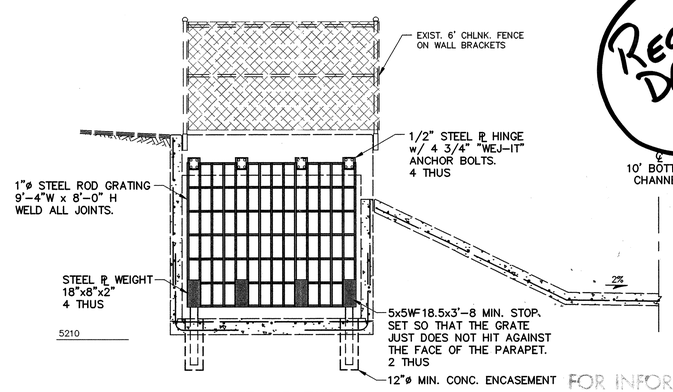
SECTION C-C
1/4" = 1'-0"



NOTES:
1. FURNISH AND INSTALL GRATES AND SEAT ANGLES PER NMSH&TD SER. BMDI-001.
2. PRIME AND PAINT EXPOSED STEEL PER CoA STD. REQUIREMENTS.

(SEE SHEET 7 OF 10 FOR GRATE DETAILS.)

TYP. PLAN SECTION @ 4'x3'-6" MEDIAN DROP INLET
IN C.B.C. ROOF SLAB @ STA. 10+10 (4 THUS)
1/4" = 1'-0"



RECORD DRAWING 6-11-04

SAFETY GRATING
@ EXIST. 10x8 C.B.C. OUTLET
(CHANNEL ℄ STA. 25+04±)
1/4" = 1'-0"

NOTE:
ALL EXPOSED STEEL SHALL BE THOROUGHLY CLEANED AND DEBURRED, AND PAINTED WITH ONE SHOPCOAT OF RED OXIDE PRIMER AND TWO FINISH COATS ALUMINUM PAINT (AASHTO M 69).

NOTES:
1. PORTLAND CEMENT CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 101 FOR USE IN DRAINAGE STRUCTURES. (4000#, 6-BAG MIX W/ CLASS F FLYASH.)
2. REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF ASTM A 615, GRADE 40 or 60.
3. REINFORCING DETAILS NOT SHOWN SHALL CONFORM TO C.R.S.I. RECOMMENDED PRACTICE.
4. #6 BARS AND SMALLER SHALL BE DETAILED FOR 30 BAR DIAMETERS MINIMUM LAPS. 20 BAR DIAMETERS WILL BE THE MINIMUM ACCEPTABLE LAP @ SPLICES IN THE FIELD.
5. EXPOSED CONCRETE SURFACES SHALL BE GIVEN A CLASS I SURFACE FINISH.

AS BUILT INFORMATION
CONTRACTOR Moore & Cowart DATE 3-31-04
WORK STAKED BY Cartesian DATE 3-31-04
INSPECTOR ACCEPTANCE BY Wilson/Co DATE 5-28-04
FIELD VERIFICATION BY Wilson/Co DATE 3-31-04
DRAWINGS CORRECTED BY Easterling DATE 6-11-04
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO 5258 JOHN T. SMITH
6-5-03

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY HC-A DATE 6-04-03
DRAWN BY HC-A DATE 6-04-03
CHECKED BY CME DATE 6-04-03

FOR INFORMATION ONLY

Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501
E-Mail: eai_engr@swcp.com

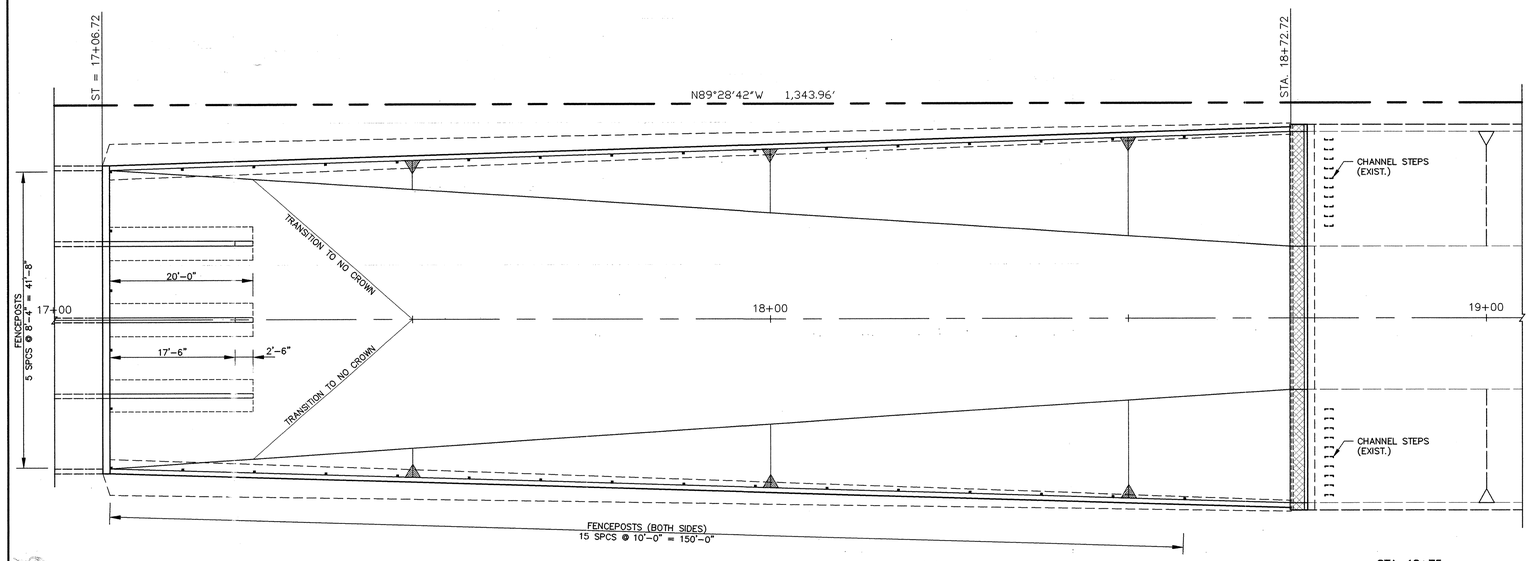
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SOUTH ARROYO DE DOMINGO BACA
(I-25 EAST TO STA. 18+75)
TYPICAL CHANNEL & C.B.C. DETAILS

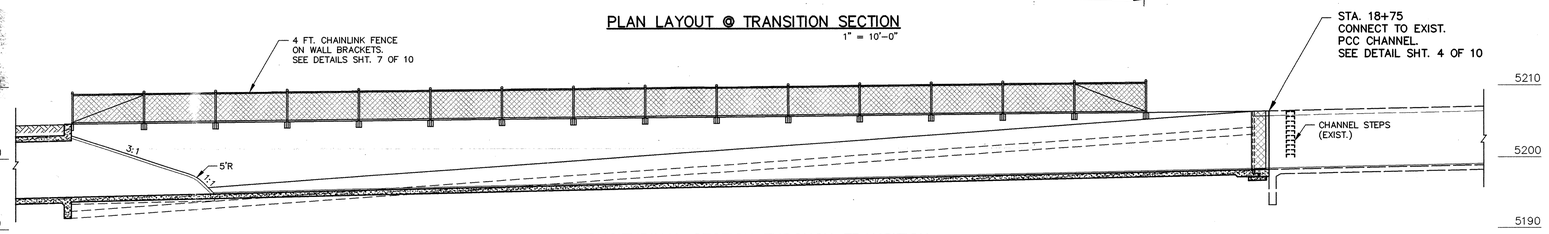
DESIGN REVIEW COMMITTEE: APPROVED JUN 2 4 2003 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED JUN 2 4 2003 CITY ENGINEER
LAST DESIGN UPDATE Mo./DAY/YR. Mo./DAY/YR.

CITY PROJECT No.	ZONE MAP NO.	SHEET	OF
6050.92	D-18	4	10

SCANNED BY MESA REPRO
D:\Land Projects 3\DBACA\dwg\DBACA5\DACHDETS.dwg 06/04/2003 02:11:01 PM MDT

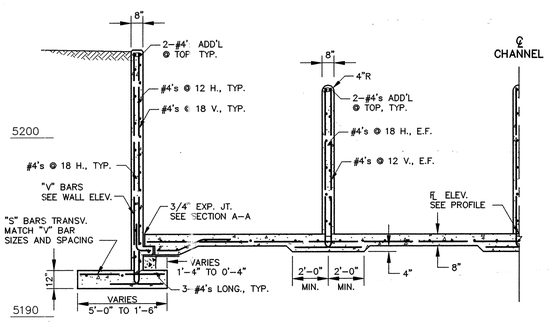


PLAN LAYOUT @ TRANSITION SECTION
1" = 10'-0"

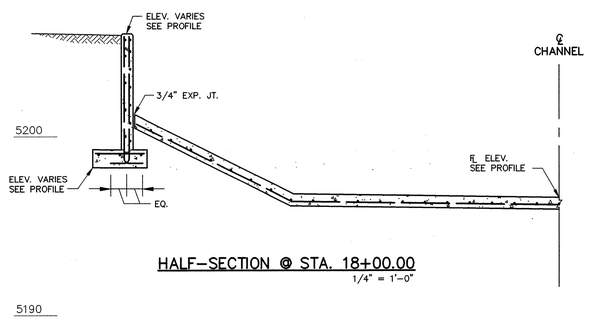


LONGITUDINAL SECTION THROUGH TRANSITION
1" = 10'-0"

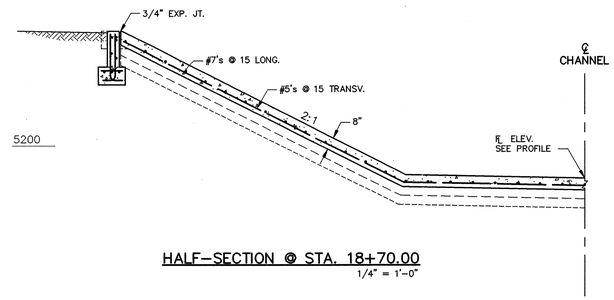
NOTE:
EXTEND OR DOWEL HORIZONTAL RETAINING WALL AND NOSE BARS 18" MIN. INTO C.B.C. WALLS.
EXTEND OR DOWEL LONGITUDINAL CHANNEL SLAB BARS 24" MIN. INTO C.B.C. FLOORSLAB.



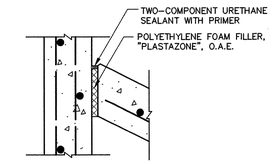
HALF-SECTION @ STA. 17+08.00
1/4" = 1'-0"



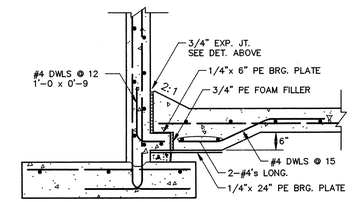
HALF-SECTION @ STA. 18+00.00
1/4" = 1'-0"



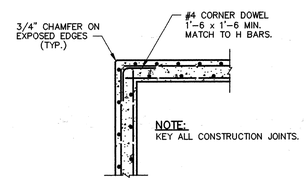
HALF-SECTION @ STA. 18+70.00
1/4" = 1'-0"



TYP. 3/4" EXPANSION JOINT @ RET. WALLS
(STD. DWG. 2260 SIM.)
1" = 1'-0"

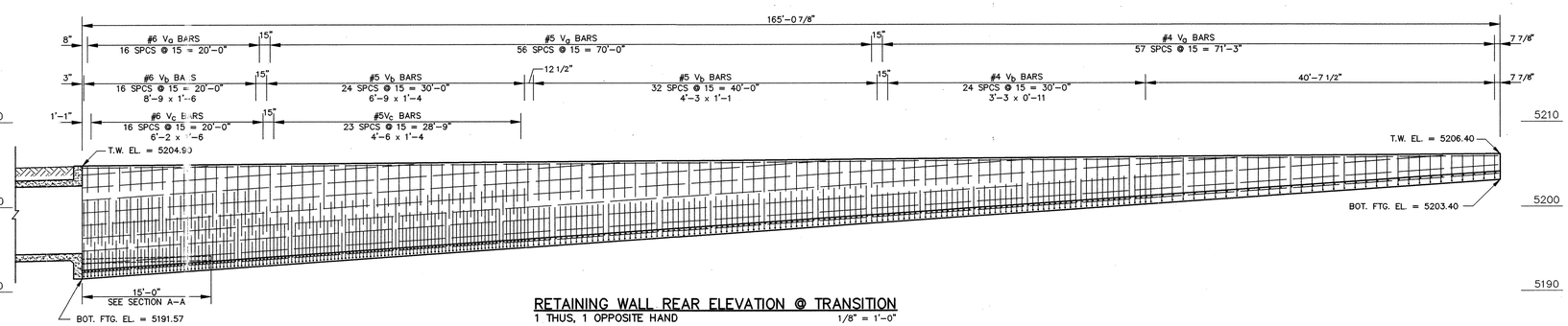


3/4" EXPANSION JOINT @ SECTION A-A
(STD. DWG. 2266 SIM.)
1/2" = 1'-0"

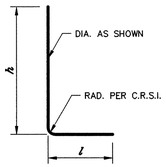


NOTE:
KEY ALL CONSTRUCTION JOINTS.

TYPICAL CORNER DETAIL
NO SCALE



RETAINING WALL REAR ELEVATION @ TRANSITION
1 THUS, 1 OPPOSITE HAND
1/8" = 1'-0"



Vb BAR
h x l

FOR INFORMATION ONLY

AS BUILT INFORMATION
CONTRACTOR Moore & Cenvart DATE 3-31-04
WORK STAKED BY Cartesian DATE 3-31-04
INSPECTOR ACCEPTANCE BY Wilson & Co DATE 5-28-04
FIELD VERIFICATION BY Wilson & Co DATE 5-31-04
DRAWINGS CORRECTED BY Easterling DATE 6-11-04
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS ALUM. CAP "9-C18 1985"
X= 402,255.61 Y= 1,521,435.09 (NAD 1927)
ELEV. 5229.79 (SLD 1929)
ACS BC 17-D18
X= 402,438.55 Y= 1,518,290.84 (NAD 1927)
ELEV. 5236.58 (SLD 1929)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
	BOHANNAN-HUSTON, INC.	
	TOPOGRAPHIC MAP OF	
	PLAZA DEL PASEO - 7/98	
	ADD'L POINTS AS REQUIRED	
	BY SURV-TEK - 12/98	

ENGINEER'S SEAL
REGISTERED ENGINEER NO. 5258 NEW MEXICO SUNN H. COUCHMAN
Record Drawing 6-11-04

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY HC-A DATE 6-04-03
DRAWN BY HC-A DATE 6-04-03
CHECKED BY CME DATE 6-04-03

Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501
E-Mail: eai_engr@swcp.com

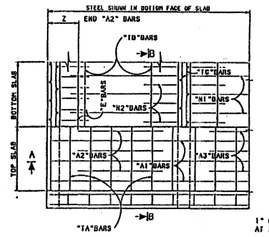
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SOUTH ARROYO DE DOMINGO BACA
(I-25 EAST TO STA. 18+75)
TRANSITION SECTION DETAILS

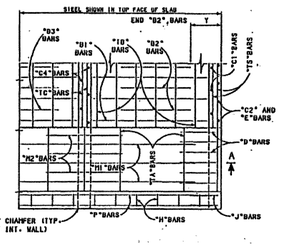
DESIGN REVIEW COMMITTEE: APPROVED JUN 24 2003 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED JUN 24 2003
LAST DESIGN UPDATE Mo./DAY/YR. Mo./DAY/YR.

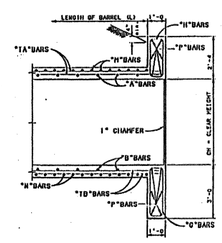
CITY PROJECT No. 6050.92 | ZONE MAP NO. D-18 | SHEET 5 OF 10

SCANNED BY MESA REPRO
D:\Land Projects 3\DBACA\dwg\DBACAS\DSTRANS.dwg 06/04/2003 02:12:06 PM MDT

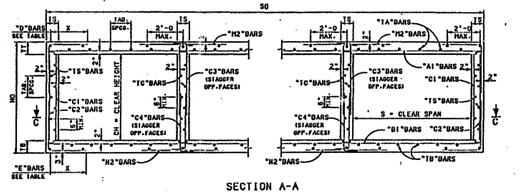


PART PLAN AND PART SECTION C-C

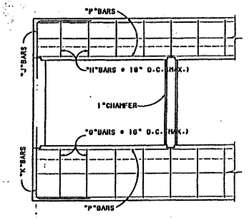




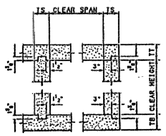
PART SECTION B-B



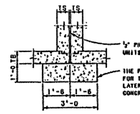
SECTION A-A



PART END ELEVATION



CONSTRUCTION JOINT DETAIL



"V" PREFORMED BITUMINOUS JOINT FILLER SHALL BE USED BETWEEN ADJACENT UNITS AND IT SHALL EXTEND BETWEEN BARRELS, PARAPETS, AND CUT-OFF WALLS.

THE FOUNDATION BLOCK SHALL BE PLACED IN NEAT EXCAVATION AND EXTENDED FOR THE ENTIRE LENGTH OF BARREL UNDER JOINT BETWEEN UNITS. PLACE ONE LAYER OF TAR PAPER OVER THE ENTIRE TOP SURFACE OF THE FOUNDATION BLOCK. CONCRETE QUANTITY = 0.111 CU. YDS. PER LIN. FT. OF BLOCK.

JOINT DETAIL FOR MULTIPLE UNIT BOXES

GENERAL NOTES

1. ALL CONCRETE SHALL BE CLASS "A". CHAMFER ALL THE EXPOSED EDGES 3/4".
2. ALL REINFORCING STEEL TO BE DEFORMED BARS, CONFORMING TO AASHTO M-31, GRADE 60. ALL DIMENSIONS REFER TO THE CENTERLINE OF BAR.
3. WHEN NECESSARY, "1" BARS MAY BE SPLICED BY LAPPING AT LEAST 30 BAR DIAMETERS. PAY WEIGHT FOR REINFORCING STEEL DOES NOT INCLUDE SPLICES. THE COST OF THE SPLICE MATERIAL IS TO BE INCLUDED IN THE UNIT PRICE BID FOR REINFORCING STEEL.
4. VOLUME OF CONCRETE = (L)(S)(CONCRETE QUANTITY/LIN. FT.) PLUS CONCRETE AT ENDS.
5. WEIGHT OF REINFORCING STEEL = (L)(WEIGHT OF REINF./LIN.FT.) PLUS WEIGHT AT ENDS.
6. PLACE "1A" BARS ON "A" BARS AND "1B" BARS UNDER "B" BARS, SPACED AS SHOWN IN THE TABLE. THE REMAINING "1A" BARS, AND "1B" BARS ARE TO BE PLACED ADJACENT TO THE "D", "E", "F", AND "H" BARS AS INDICATED IN "SECTION A-A", AT 2'-0 MAX.
7. PLACE "1S" BARS NEXT TO "C1" BARS. SPACED AS SHOWN IN THE TABLE. THE REMAINING "1S" BARS SHALL BE PLACED IN SIDEWALL NEXT TO "C2", "D", AND "E" BARS. WHEN "C1" BARS ARE NOT REQUIRED, PLACE ALL "1S" BARS NEXT TO "C2", "D", AND "E" BARS.
8. PLACE "A1", "A3", "B1", "B3", "H1", AND "H1" BARS SYMMETRICAL TO THE CENTERLINE OF THE BOX. PLACE "H2" AND "B2" BARS SYMMETRICAL TO THE CENTERLINE OF THE WALLS.
9. "COVER" IS HEIGHT OF FILL FROM TOP OF THE BOX TO THE FINISHED GRADE.

DESIGN DATA

DESIGN ACCORDING TO A.A.S.H.T.O. SPECIFICATIONS, 1957. LIVE LOAD= H20-S16-44 & INTERSTATE ALTERNATE LOADING WEIGHT OF FILL ON TOP OF BOX= 240/CU.FT. HORIZONTAL EARTH PRESSURE= 30#/SQ.FT./. 2' SURCHARGE DESIGN STRESSES: f'c = 3000 psi. fs = 1200 psi. fv = 20,000 psi. n = 10.

NO.	REVISION DESCRIPTION	DATE	BY
1	REVISED NOTE #2	1-2-91	JM

REVISIONS FOR CHANGE NOTICES

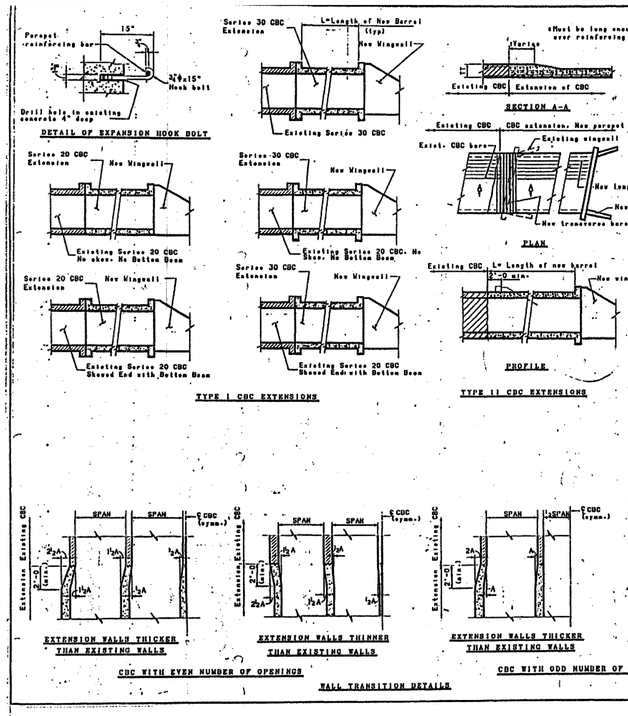
NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

CONCRETE BOX CULVERT BARRELS QUADRUPLE OPENING - NORMAL ALL DESIGNS

GENERAL DATA

SERIAL CB-34 SHEET 1 OF 5

D. M. P. ..... SHEET.....



GENERAL NOTES

1. FOR TYPE I CBC EXTENSION, USE SERIES 20 WHEN THE SPAN AND RISE OF THE EXISTING SERIES 20 CBC DOES NOT MATCH ANY SERIES 30 CBC SHOWN IN THE STANDARDS.
2. REMOVE WINGS AND APRONS (WHERE PRESENT) FROM THE EXISTING CBC. LONGITUDINAL BARS EXPOSED BY REMOVAL OF EXISTING CONCRETE ARE TO BE CLEANED AND STRAIGHTENED AND BENDED INTO CBC. EXTENSION.
3. FOR TYPE I CBC EXTENSIONS, HOOK BOLTS SHALL BE INSTALLED ONLY IN THE EXISTING PARAPET UNIT IN VERTICAL WALLS OR BOTTOM SLAB AND SPACED AT 1'-0 CENTERS.
4. FOR TYPE II CBC EXTENSION REMOVE ENOUGH OF EXISTING CBC CONCRETE TO EXPOSE THE LARGER OF 2'-0 OF LONGITUDINAL STEEL OR A MINIMUM LENGTH OF TRANSVERSE REINFORCING NEAR MID-SPAN EQUAL TO THE FOLLOWING:
   - #4 BARS = 12"
   - #5 BARS = 14"
   - #6 BARS = 19"
   - #7 BARS = 26"
   - #8 BARS = 33"
   - #9 BARS = 41".
5. THERE WILL NOT BE A PARAPET OR A CUTOFF WALL AT THE CONNECTION OF THE EXISTING AND THE EXTENDED TYPE II CBC. THE REINFORCING FOR A PARAPET AND CUTOFF WALL CAN BE OMITTED AT THE CONNECTION END OF THE CBC. FOR ESTIMATED QUANTITIES THE EXTENDED BARREL LENGTH WILL BE BASED ON REMOVING A MINIMUM 2'-0 OF EXISTING CBC. PAY QUANTITIES WILL BE BASED ON THE ACTUAL REMOVAL.
6. COST OF FURNISHING AND PLACING EXPANSION BOLTS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO DIRECT PAYMENT WILL BE MADE THEREFOR.
7. WATERPROOFING MEMBRANE SHALL BE USED ON THE TOP SLAB, PARAPETS, EXTERIOR SIDE WALLS OR ALL CBC EXTENSIONS, AND AT THE LONGITUDINAL JOINT BETWEEN MULTIPLE UNIT BOXES. COST OF FURNISHING AND PLACING THE MEMBRANE SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO DIRECT PAYMENT WILL BE MADE THEREFOR.

NO.	DESCRIPTION	DATE	BY
1			

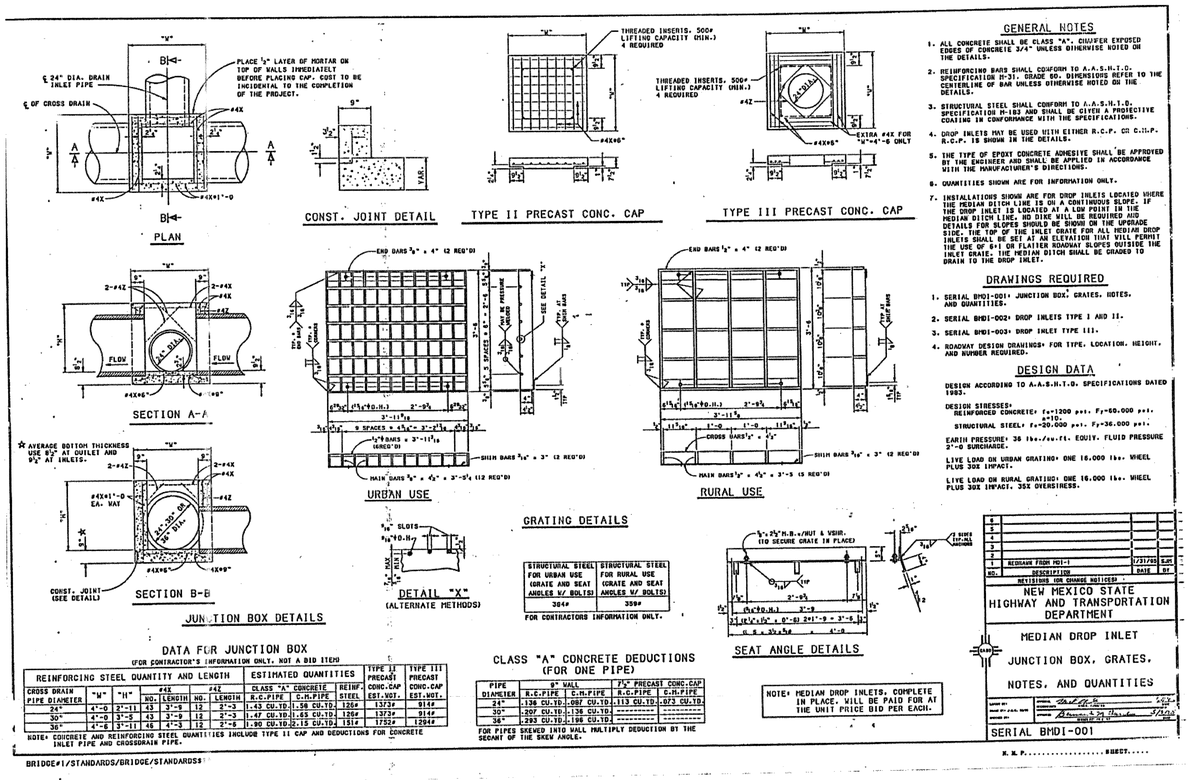
REVISIONS FOR CHANGE NOTICES

NEW MEXICO STATE HIGHWAY DEPARTMENT

CONCRETE BOX CULVERT EXTENSION

SERIAL BCE-001

| CLEAR SPAN | CLEAR HEIGHT | T1 | TS | TD | SO | HO | Y | Z | QUANTITIES PER L.F. OF BARREL: REINFORCING STEEL (POUNDS PER L.F.) | CONCRETE (CU. YDS. PER L.F.) | AT ONE END *: REINFORCING STEEL (POUNDS PER L.F.) | CONCRETE (CU. YDS.) | "A" BARS "A1" SIZE | "A1" LENGTH | "A2" SIZE | "A2" LENGTH | "A3" SIZE | "A3" LENGTH | "A3" SPACING | "B" BARS "B1" SIZE | "B1" LENGTH | "B2" SIZE | "B2" LENGTH | "B3" SIZE | "B3" LENGTH | "B3" SPACING | "C" BARS "C1" SIZE | "C1" SPACING | "C2" SIZE | "C2" SPACING | "C3" SIZE | "C3" LENGTH | "C4" SIZE | "C4" LENGTH | "C4" SPACING | "H" BARS "H1" SIZE | "H1" LENGTH | "H2" SIZE | "H2" LENGTH | "H2" SPACING | "N" BARS "N1" SIZE | "N1" LENGTH | "N2" SIZE | "N2" LENGTH | "N2" SPACING | "D" SIZE | "D" LENGTH | "D" "X" | "D" SPACING | "E" SIZE | "E" LENGTH | "E" "X" | "E" SPACING | "1A" NO. | "1A" SIZE | "1A" SPACING | "1B" NO. | "1B" SIZE | "1B" SPACING | "1C" NO. | "1C" SIZE | "1C" SPACING | "1S" NO. | "1S" SIZE | "1S" SPACING | S-H |
|---|---|---|---



DATA FOR JUNCTION BOX
(FOR CONTRACTOR'S INFORMATION ONLY. NOT A BID ITEM)

REINFORCING STEEL QUANTITY AND LENGTH						ESTIMATED QUANTITIES				TYPE II PRECAST CONC.CAP EST.WGT.	TYPE III PRECAST CONC.CAP EST.WGT.
CROSS DRAIN PIPE DIAMETER	"W"	"H"	#4X NO.	#4X LENGTH	#4Z NO.	#4Z LENGTH	CLASS "A" CONCRETE R.C.PIPE	CLASS "A" CONCRETE C.M.PIPE	REINF. STEEL		
24"	4'-0	3'-11	43	3'-9	12	3'-3	1.43 CU.YD.	1.58 CU.YD.	126#	137#	91#
30"	4'-0	3'-5	43	3'-9	12	3'-3	1.47 CU.YD.	1.63 CU.YD.	126#	137#	91#
36"	4'-6	3'-11	46	4'-3	12	3'-6	1.90 CU.YD.	2.15 CU.YD.	151#	175#	129#

NOTE: CONCRETE AND REINFORCING STEEL QUANTITIES INCLUDE TYPE II CAP AND DEDUCTIONS FOR CONCRETE INLET PIPE AND CROSSDRAIN PIPE.

CLASS "A" CONCRETE DEDUCTIONS
(FOR ONE PIPE)

PIPE DIAMETER	9" WALL R.C.PIPE	9" WALL C.M.PIPE	7½" PRECAST CONC.CAP R.C.PIPE	7½" PRECAST CONC.CAP C.M.PIPE
24"	.126 CU.YD.	.087 CU.YD.	.113 CU.YD.	.073 CU.YD.
30"	.207 CU.YD.	.136 CU.YD.	--------	--------
36"	.293 CU.YD.	.196 CU.YD.	--------	--------

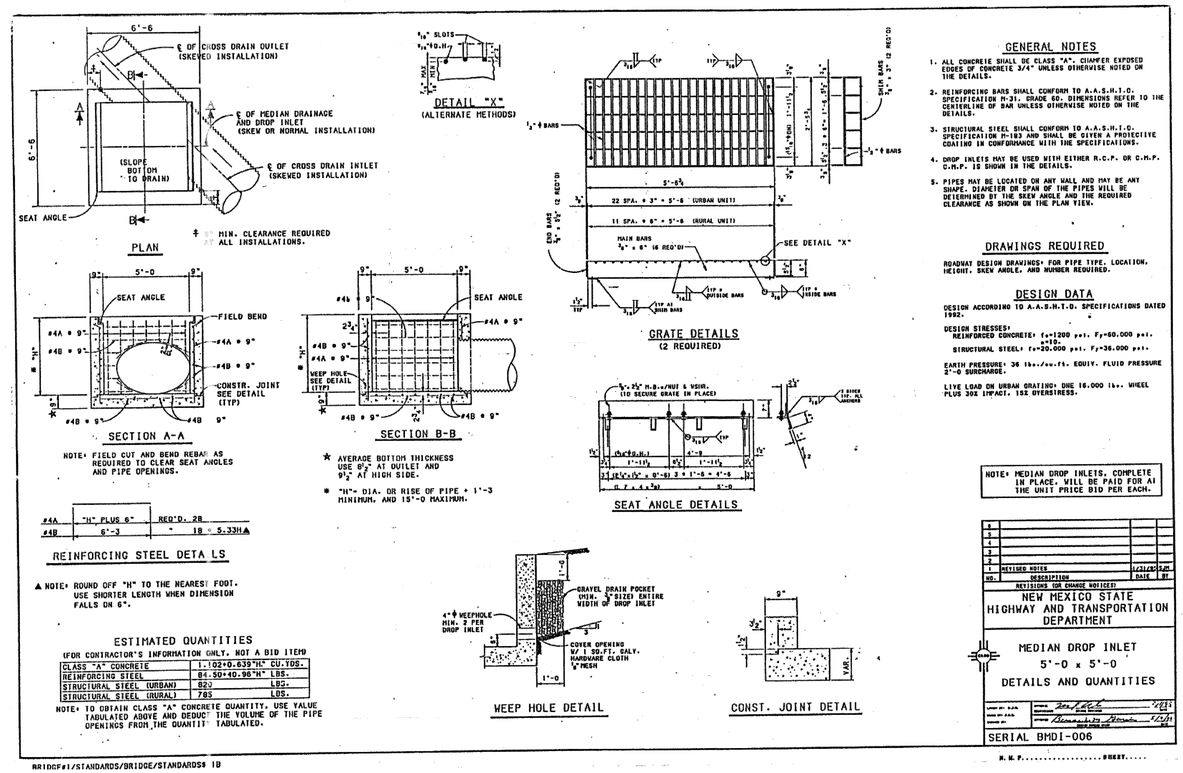
FOR PIPES SKEWED INTO WALL MULTIPLY DEDUCTION BY THE SECANT OF THE SKEW ANGLE.

STRUCTURAL STEEL FOR URBAN USE (GRATE AND SEAT ANGLES W/ BOLTS) 326#
STRUCTURAL STEEL FOR RURAL USE (GRATE AND SEAT ANGLES W/ BOLTS) 359#
FOR CONTRACTORS INFORMATION ONLY.

NOTE: MEDIAN DROP INLETS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE UNIT PRICE BID PER EACH.

NO.	DESCRIPTION	DATE	BY
1	REDRAWN FROM MDI-1	1/31/95	S.M.

REVISIONS FOR CHANGE NOTICES



NOTE: FIELD CUT AND BEND REBAR AS REQUIRED TO CLEAR SEAT ANGLES AND PIPE OPENINGS.

★ AVERAGE BOTTOM THICKNESS USE 8½" AT OUTLET AND 9½" AT HIGH SIDE.

* "H"= DIA. OR RISE OF PIPE + 1'-3 MINIMUM, AND 15'-0 MAXIMUM.

	"H" PLUS 6"	REQ'D. 28
#4A	6'-3	" 18 = 5.33H▲
#4B		

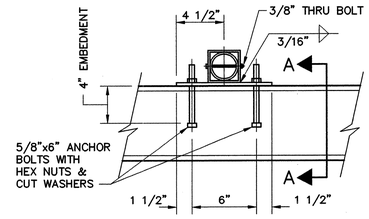
REINFORCING STEEL DETAILS

▲ NOTE: ROUND OFF "H" TO THE NEAREST FOOT. USE SHORTER LENGTH WHEN DIMENSION FALLS ON 6".

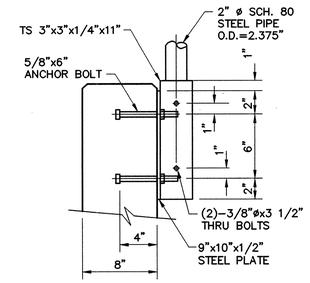
ESTIMATED QUANTITIES
(FOR CONTRACTOR'S INFORMATION ONLY. NOT A BID ITEM)

CLASS "A" CONCRETE	1.02+0.639"H" CU.YDS.
REINFORCING STEEL	84.50+40.96"H" LBS.
STRUCTURAL STEEL (URBAN)	820 LBS.
STRUCTURAL STEEL (RURAL)	785 LBS.

NOTE: TO OBTAIN CLASS "A" CONCRETE QUANTITY, USE VALUE TABULATED ABOVE AND DEDUCT THE VOLUME OF THE PIPE OPENINGS FROM THE QUANTITY TABULATED.



FENCE POST
WALL BRACKET DETAIL
NOT TO SCALE



SECTION A-A
NOT TO SCALE

FENCE NOTES:

1. ALL PLATES, ANGLES, BOLTS, ETC. SHALL BE STRUCTURAL STEEL AND GALVANIZED PER CoA STANDARD SPECIFICATIONS.
2. ALL FENCE MATERIALS SHALL CONFORM TO CoA STANDARD SPECIFICATIONS AND DETAILS, EXCEPT THAT FENCE POSTS SHALL BE 2" DIA., SCHED. 80 PIPE.
3. INSTALL CHAINLINK FABRIC ON THE OUTSIDE OF THE PIPE RAILING WITH TENSION BARS AND THREE (3) CLAMPS AT EACH CORNER POST.
4. PAINT ALL FIELD WELDS WITH GALVANIZING COATING.

AS BUILT INFORMATION
CONTRACTOR Monte J. Carmony DATE 3-31-04
WORK STAKED BY Carlson DATE 3-31-04
WORK STAKED ACCEPTANCE BY Wilson & Co DATE 3-31-04
FIELD VERIFICATION BY Wilson & Co DATE 3-31-04
DRAWINGS CORRECTED BY Easterling DATE 6-11-04
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

ACS ALUM. CAP "9-C18 1985"	
X= 402,255.61	Y= 1,521,435.09 (NAD 1927)
ELEV. 5229.79 (SLD 1929)	
ACS BC 17-D18	
X= 402,438.55	Y= 1,518,290.84 (NAD 1927)
ELEV. 5236.58 (SLD 1929)	

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
	BOHANNAN-HUSTON, INC.	
	TOPOGRAPHIC MAP OF	
	PLAZA DEL PASEO - 7/98	
	ADD'L POINTS AS REQUIRED	
	BY SURV-TEK - 12/98	

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER 5258 STATE OF NEW MEXICO JAMES A. EASTERLING
6-11-04

FOR INFORMATION ONLY

RECORD DRAWING 6-11-04

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY HC-A DATE 6-04-03
DRAWN BY HC-A DATE 6-04-03
CHECKED BY CME DATE 6-04-03

Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501
E-Mail: eai_engr@swcp.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SOUTH ARROYO DE DOMINGO BACA
(I-25 EAST TO STA. 18+75)
FENCE AND INLET GRATE DETAILS

DESIGN REVIEW COMMITTEE — JUN 2 4 2003 — DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL — JUN 2 4 2003 — CITY ENGINEER
LAST DESIGN UPDATE | Mo./DAY/YR. | Mo./DAY/YR.

CITY PROJECT No.	ZONE MAP NO.	SHEET	OF
6050.92	D-18	7	10

SCANNED BY MESA REPRO
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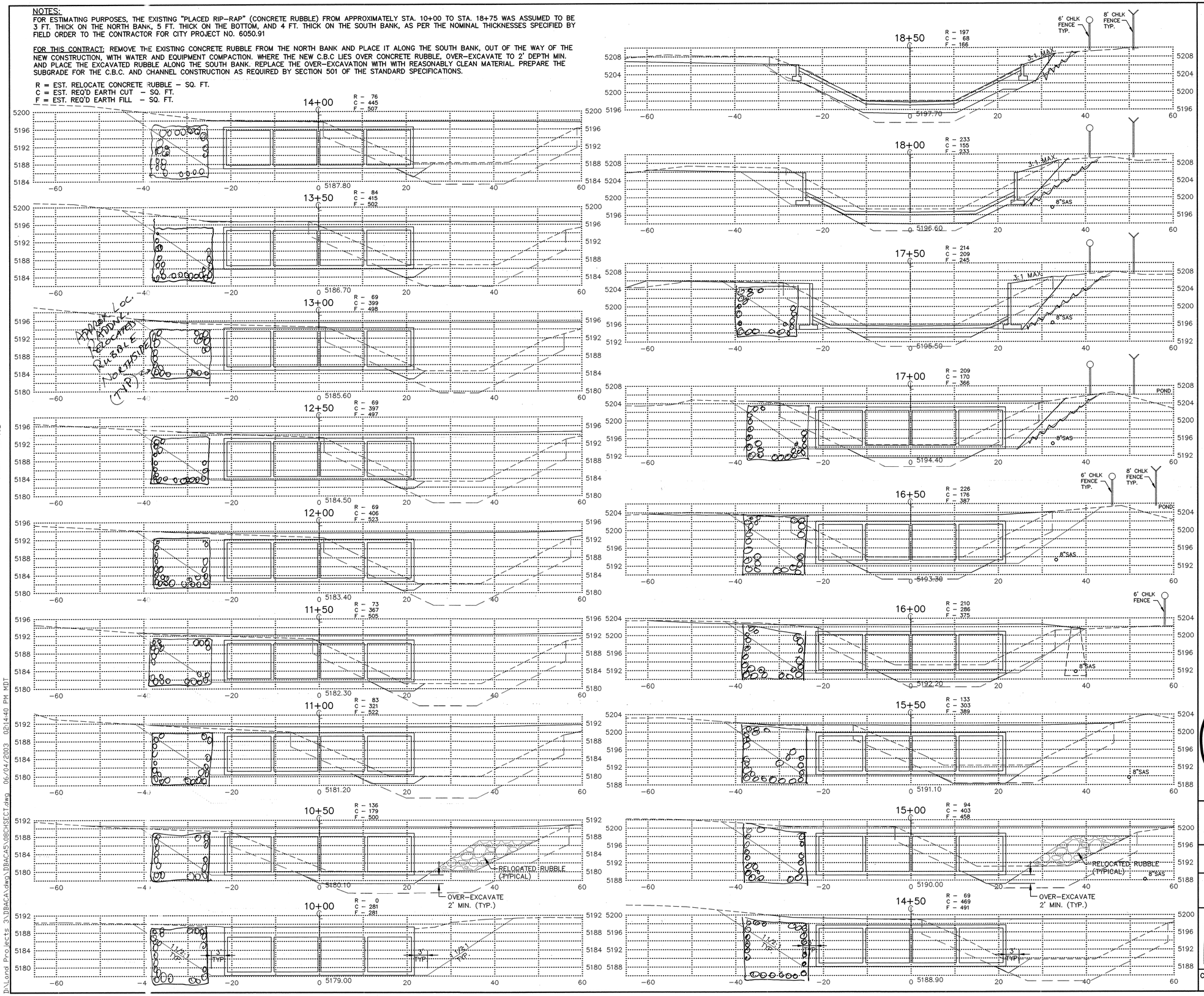
NOTES:
FOR ESTIMATING PURPOSES, THE EXISTING "PLACED RIP-RAP" (CONCRETE RUBBLE) FROM APPROXIMATELY STA. 10+00 TO STA. 18+75 WAS ASSUMED TO BE 3 FT. THICK ON THE NORTH BANK, 5 FT. THICK ON THE BOTTOM, AND 4 FT. THICK ON THE SOUTH BANK, AS PER THE NOMINAL THICKNESSES SPECIFIED BY FIELD ORDER TO THE CONTRACTOR FOR CITY PROJECT NO. 6050.91

FOR THIS CONTRACT: REMOVE THE EXISTING CONCRETE RUBBLE FROM THE NORTH BANK AND PLACE IT ALONG THE SOUTH BANK, OUT OF THE WAY OF THE NEW CONSTRUCTION, WITH WATER AND EQUIPMENT COMPACTION. WHERE THE NEW C.B.C LIES OVER CONCRETE RUBBLE, OVER-EXCAVATE TO 2' DEPTH MIN. AND PLACE THE EXCAVATED RUBBLE ALONG THE SOUTH BANK. REPLACE THE OVER-EXCAVATION WITH WITH REASONABLY CLEAN MATERIAL. PREPARE THE SUBGRADE FOR THE C.B.C. AND CHANNEL CONSTRUCTION AS REQUIRED BY SECTION 501 OF THE STANDARD SPECIFICATIONS.

R = EST. RELOCATE CONCRETE RUBBLE – SQ. FT.
C = EST. REQ'D EARTH CUT – SQ. FT.
F = EST. REQ'D EARTH FILL – SQ. FT.



AS BUILT INFORMATION
CONTRACTOR Moore & Company DATE 3-31-04
WORK STAKED BY Cartesian DATE 3-31-04
INSPECTOR ACCEPTANCE BY Wilson & Co DATE 5-12-04
FIELD VERIFICATION BY Wilson & Co DATE 5-31-04
DRAWINGS CORRECTED BY Easterling DATE 6-11-04
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS ALUM. CAP "9-C18 1985"
X= 402,255.61 Y= 1,521,435.09 (NAD 1927)
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NO.	BY	DATE
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ADD'L POINTS AS REQUIRED
BY SURV-TEK – 12/98

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO 5258 HANS H. COCKERHAM

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
			DATE 6-04-03
			DATE 6-04-03
			DATE 6-04-03

DESIGNED BY HC-A
DRAWN BY HC-A
CHECKED BY CME

FOR INFORMATION ONLY

RECORD DRAWING 6-11-04

Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501
E-Mail: eai_engr@swcp.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SOUTH ARROYO DE DOMINGO BACA
(I-25 EAST TO STA. 18+75)
CROSS-SECTIONS

DESIGN REVIEW COMMITTEE APPROVED JUN 24 2003 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL APPROVED JUN 24 2003 CITY ENGINEER
LAST DESIGN UPDATE Mo./DAY/YR. Mo./DAY/YR.

CITY PROJECT No.	ZONE MAP NO.	SHEET	OF
6050.92	D-18	8	10

SCANNED BY MESA REPRO
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CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

11. CONTRACTOR SHALL NOT BEGIN WORK BEFORE 7:00 A.M. OR END WORK AFTER 7:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELLED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

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

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

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

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

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

19. 24 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

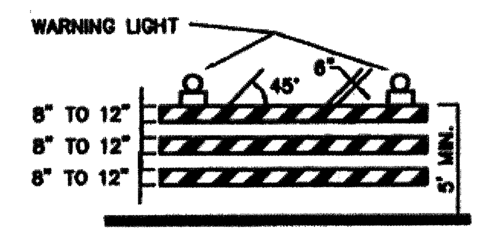
22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
   1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
   2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
   3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

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

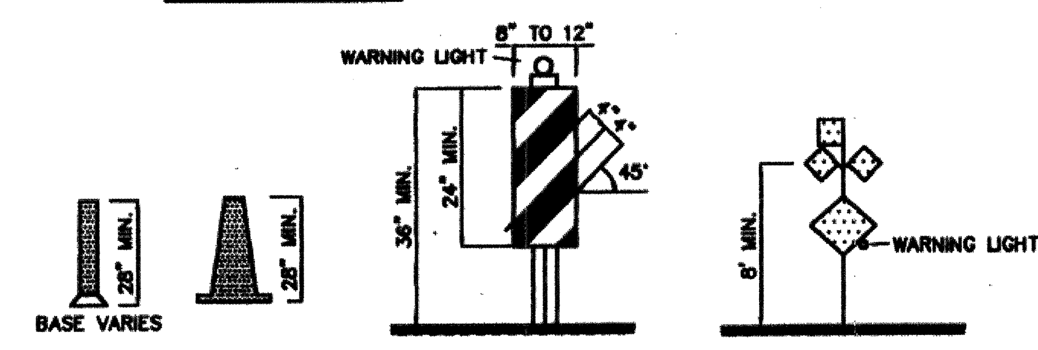
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

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

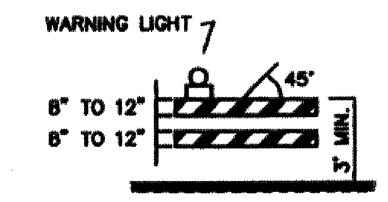
26. ADVANCE WARNING SIGNS SHALL BE 36"x36" WITH SUPER ENGINEERING GRADE SHEETING OR BETTER.



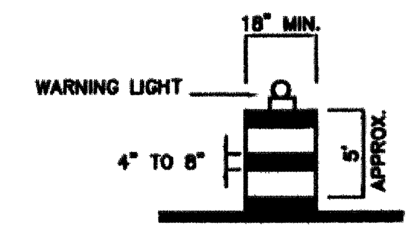
TYPE III BARRICADE



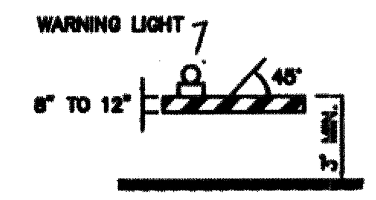
CONES VERTICAL PANEL HIGH LEVEL WARNING DEVICE



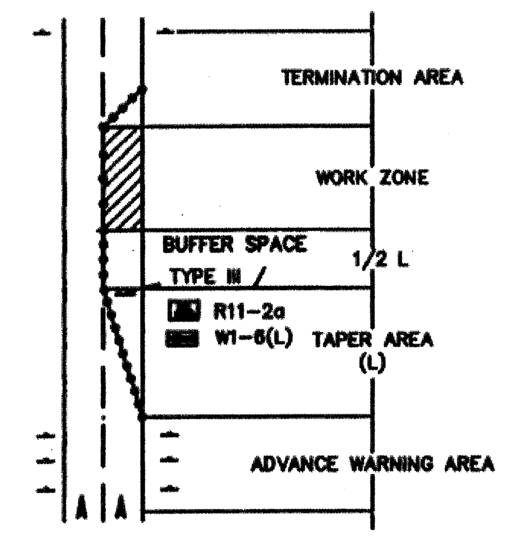
TYPE II BARRICADE COLLAPSIBLE



BARREL



TYPE I BARRICADE COLLAPSIBLE



TRAFFIC CONTROL ELEMENTS

LEGEND

- WORK AREA
- ● BARRICADE – TYPE I, TYPE II, OR BARREL
- BARRICADE – TYPE III
- X VERTICAL PANEL
- WARNING SIGN
- D DISTANCE BETWEEN SIGNS – A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
- FLAGMAN POSITION
- S SPACING BETWEEN BARRICADES– A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
- L TAPER 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	MINIMUM DISTANCE IN FEET FROM LAST SIGN TO TAPER
0–20	10 X SPEED LIMIT	10 X SPEED LIMIT
25–30	10 X SPEED LIMIT	10 X SPEED LIMIT
30–35	10 X SPEED LIMIT	10 X SPEED LIMIT
40–45	10 X SPEED LIMIT	10 X SPEED LIMIT
50–60	10 X SPEED LIMIT	10 X SPEED LIMIT

TAPER CRITERIA

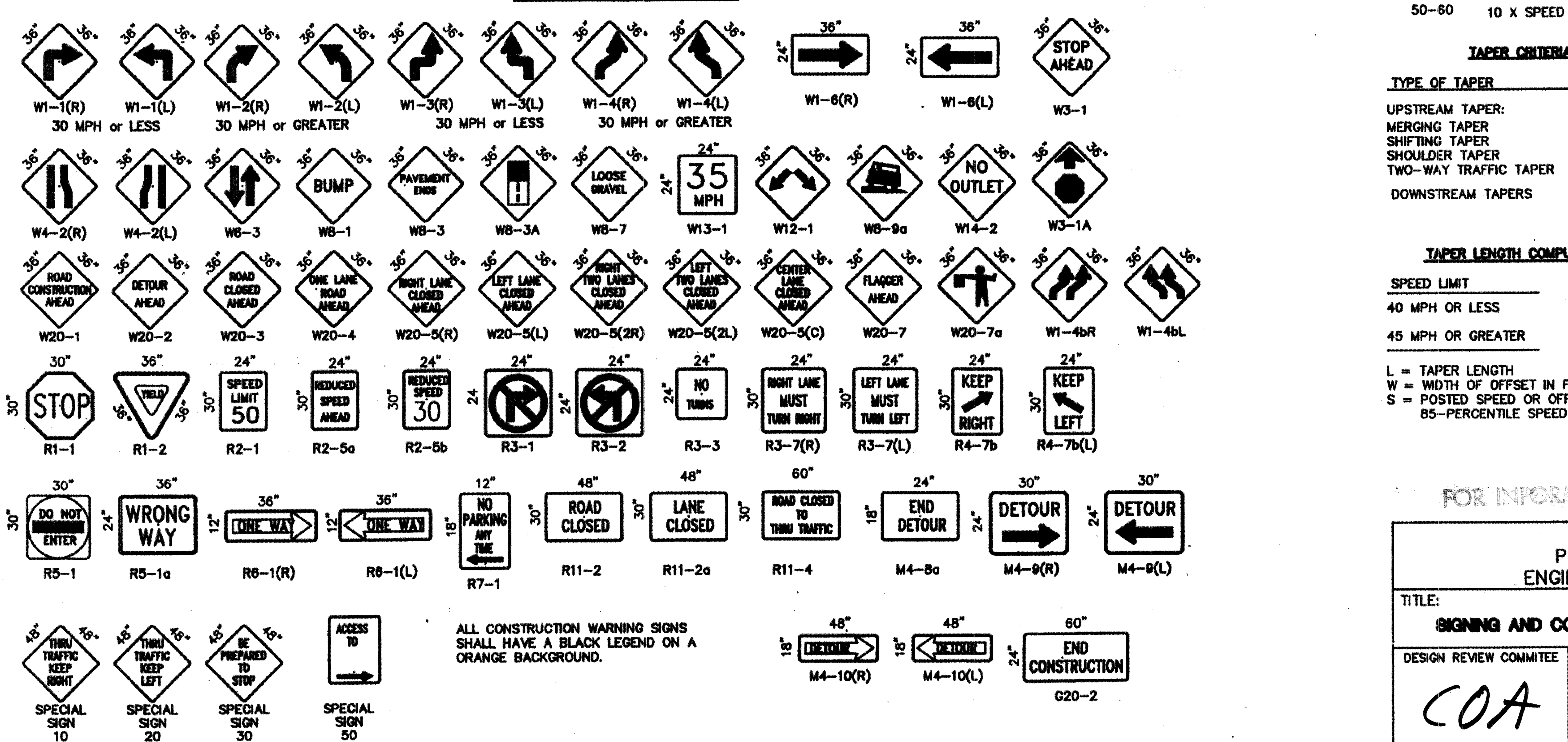
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

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

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

SIGN FACE DETAILS



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

FOR INFORMATION ONLY

AS BUILT INFORMATION
CONTRACTOR Moore & Gavins DATE
WORK STAKED BY Cartesian DATE 3-31-04
INSPECTOR'S ACCEPTANCE BY Wilson & Co DATE 5-28-04
FIELD VERIFICATION BY Wilson & Co DATE 3-31-04
DRAWINGS CORRECTED BY Easterling DATE 6-11-04

MICRO-FILM INFORMATION
RECORDED BY | DATE | NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
RICARDO B. ROYBAL, NEW MEXICO, REGISTERED PROFESSIONAL ENGINEER

REVISIONS
NO. | DATE | REMARKS | BY

DESIGN
DESIGNED BY | DATE
DRAWN BY C.O.A. STANDARDS | DATE
CHECKED BY | DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

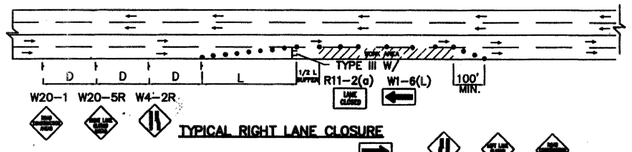
TITLE:
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

DESIGN REVIEW COMMITEE	CITY ENGINEER APPROVAL	LAST UPDATE	MO./DAY/YR.	MO./DAY/YR.
COA	STD			

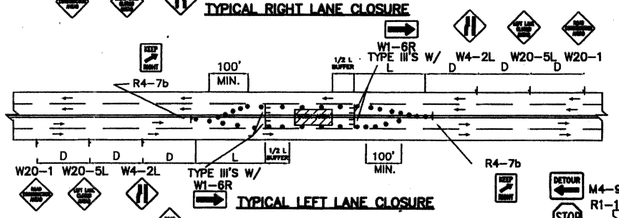
CITY PROJECT No.	ZONE MAP NO.	SHEET	OF
6050.92	D-18	9	10

SCANNED BY MESA REPRO

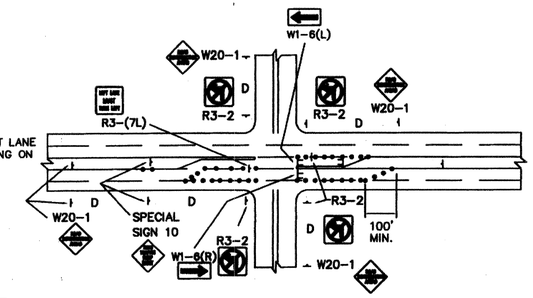
D:\Land Projects 3\DBACA\dwg\DBACA5\09TRAFFIC.dwg 06/04/2003 02:15:21 PM MDT



TYPICAL RIGHT LANE CLOSURE



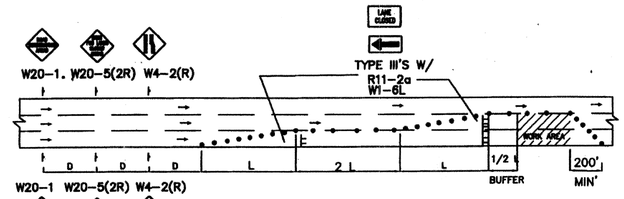
TYPICAL LEFT LANE CLOSURE



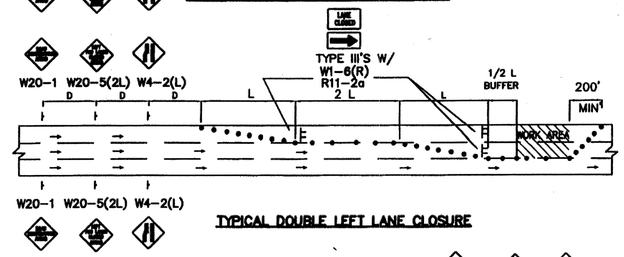
NOTE:
MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.

TYPICAL LANE CLOSURE AT INTERSECTION

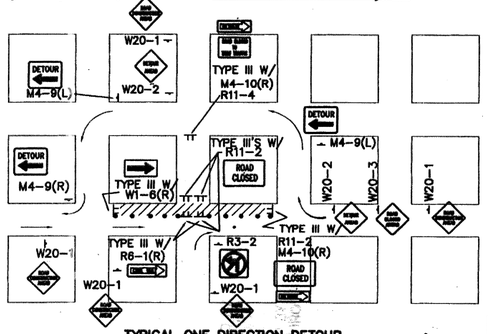
NOTE: DEPENDING ON WORK ZONE LOCATION



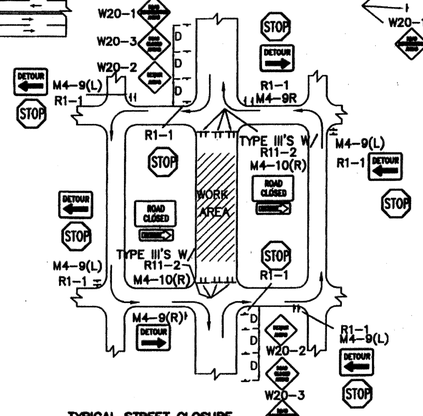
TYPICAL DOUBLE RIGHT LANE CLOSURE



TYPICAL DOUBLE LEFT LANE CLOSURE

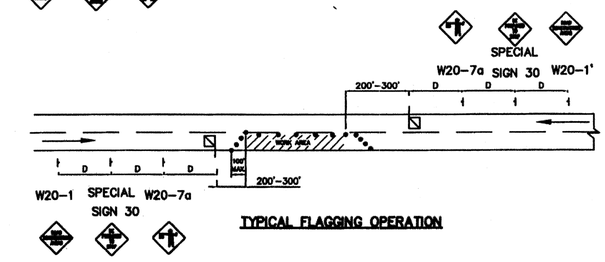


TYPICAL ONE DIRECTION DETOUR

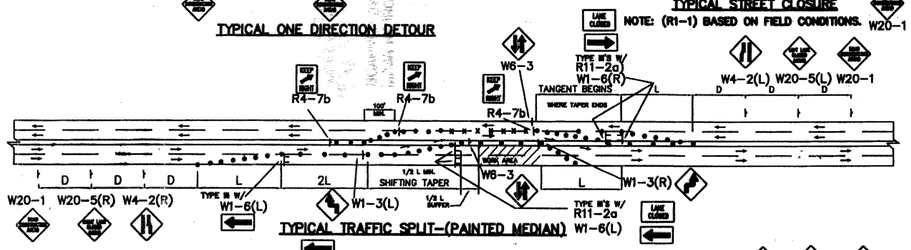


TYPICAL STREET CLOSURE

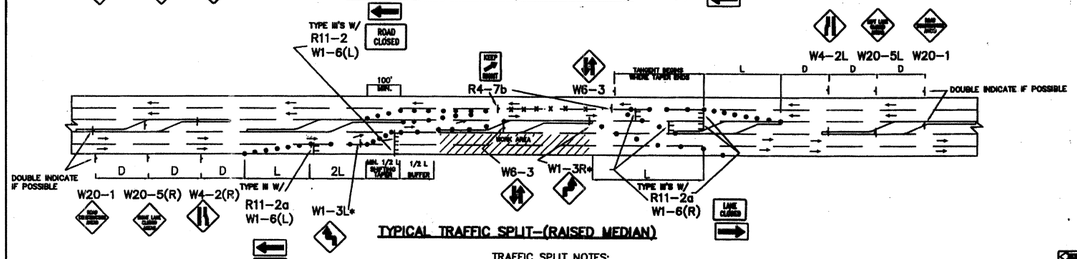
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



TYPICAL FLAGGING OPERATION



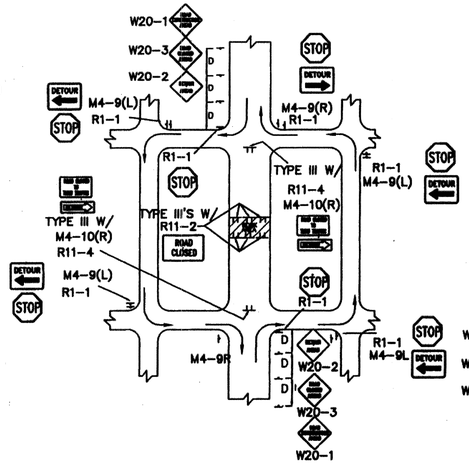
TYPICAL TRAFFIC SPLIT-(PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT-(RAISED MEDIAN)

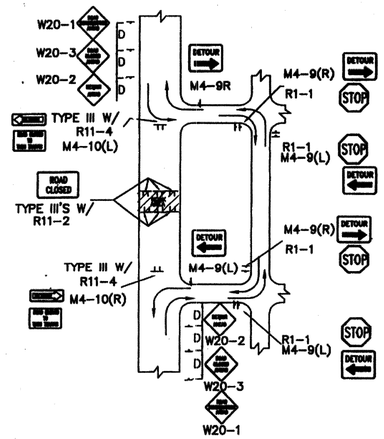
TRAFFIC SPLIT NOTES:

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.



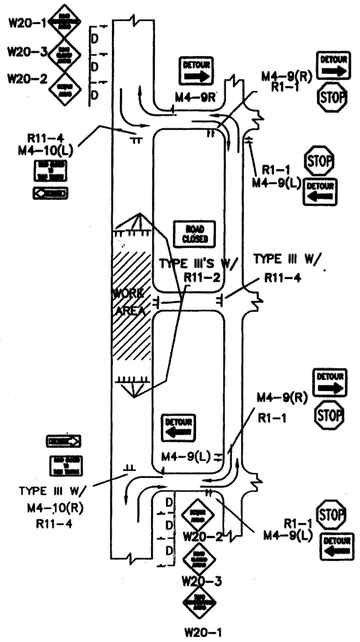
TYPICAL MID-BLOCK CLOSURE

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



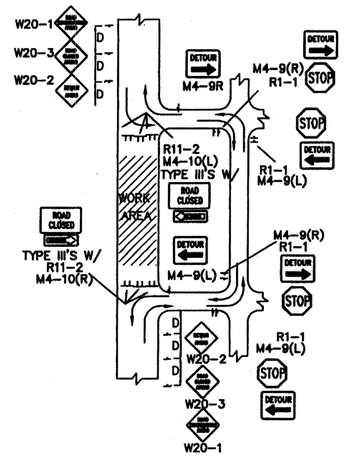
TYPICAL STREET CLOSURE

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



TYPICAL STREET CLOSURE

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



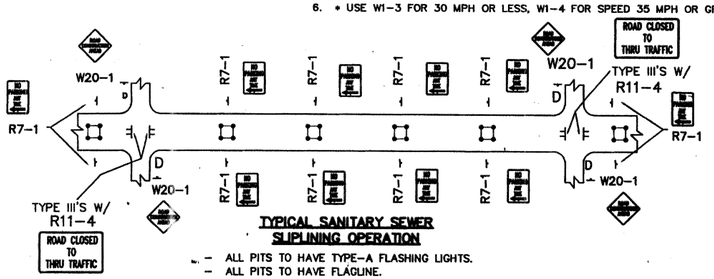
TYPICAL STREET CLOSURE

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

GENERAL NOTE:

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

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



TYPICAL SANITARY SEWER SLIPLINING OPERATION

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

SCANNED BY MESA REPRO

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AS BUILT INFORMATION

CONTRACTOR	MORES / GAMMT	DATE 3-30-04
STAKED BY	CMOTES/NV	DATE 3-30-04
INSPECTOR'S		
REVISIONS BY	LL/LSB.W/LC	DATE 5-28-04
FIELD		
VERIFICATION BY	LWISTM & CO	DATE 3-31-04
DRAWING		
CORRECTED BY	CATERLINA	DATE 6-1-04

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY	C.O.A. STANDARDS	DATE
DRAWN BY		DATE
CHECKED BY		DATE

FOR INFORMATION ONLY

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.)**

DESIGN REVIEW COMMITEE	CITY ENGINEER APPROVAL	LAST UPDATE	MO./DAY/YR.	MO./DAY/YR.
CO A STD				

CITY PROJECT No.	ZONE MAP NO.	SHEET	OF
6050.92	D-18	10	10