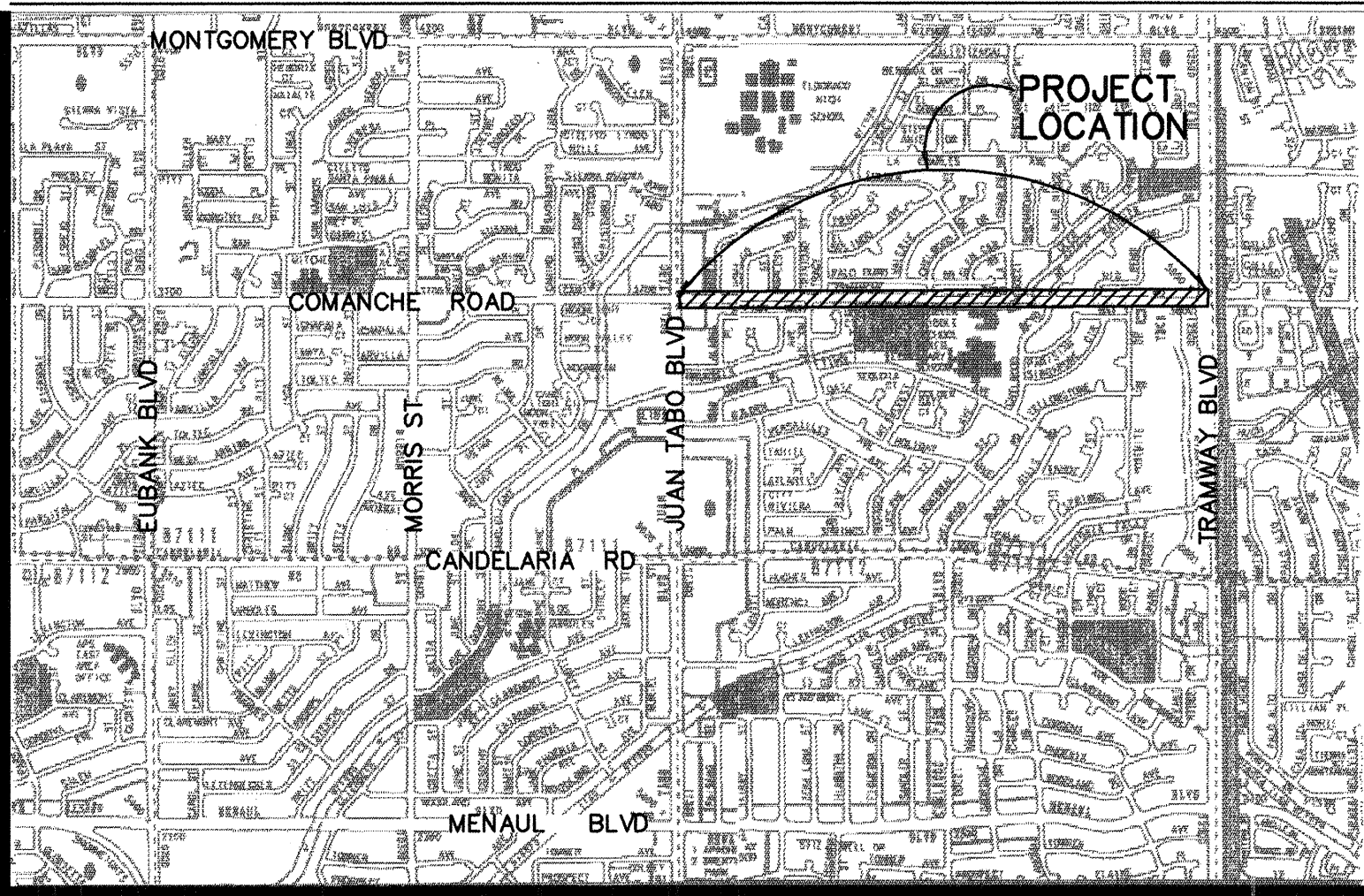


RECORD DRAWING CERTIFICATION
I, HEREBY CERTIFY THAT THE INFORMATION CONTAINED ON THESE DRAWINGS HAS BEEN REVISED IN ACCORDANCE WITH INFORMATION OBTAINED FROM FIELD CONSTRUCTION OBSERVATION BY ISAACSON & ARFMAN, P.A. AND REFLECTS THE CONSTRUCTION AS ACTUALLY ACCOMPLISHED. THESE PLANS, AS CONSTRUCTED, ARE IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS.

Thomas O. Isaacson
THOMAS O. ISAACSON, NMPE & LS NO. 3895

1/16/04
DATE

CONSTRUCTION PLANS
FOR
COMANCHE ROAD
MEDIAN RECONSTRUCTION
AND LANDSCAPING
PHASE II
PROJECT NO. 588293
PUBLIC WORKS DEPARTMENT
CITY OF ALBUQUERQUE



MAP 26 & 27, CITY ATLAS (G21 & G22)
LOCATION MAP

GENERAL NOTES

- All work detailed on these plans to be performed under contract shall, except as otherwise stated or provided for hereon, be constructed in accordance with the City of Albuquerque Standard Specifications for Public Works Construction 1986 Edition as amended with Update No. 6.
- Prior to construction, the Contractor shall excavate & verify the horizontal and vertical locations of all obstructions, including traffic signal conduit. Should a conflict exist, the Contractor shall notify the Engineer so that the conflict can be resolved with minimum delay.
- Two (2) working days prior to any excavation, Contractor must contact New Mexico One Call System @ 260-1990 for location of existing utilities.
- Contractor shall conduct his operations in a manner which will minimize interference with local traffic. Contractor shall comply with all applicable laws, ordinances, rules, regulations, and orders of any public body having jurisdiction for the safety of persons or property, and to protect them from damage, injury, or loss. Contractor shall erect and maintain, as required by the conditions and progress of the work, all necessary safeguards for safety continuously and not limited to normal working hours, throughout the duration of the project. Contractor shall adhere to Section 19 of the General Conditions of the City of Albuquerque Standard Specifications for Public Works Construction, 1986, as amended with Update No. 6.
- The Contractor agrees that he shall assume the sole and complete responsibility for the job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify, and hold harmless the Owner & Engineer from any and all liability real or alleged, in connection with the performance of work on this project, excepting liability arising from the sole negligence of the Owner or Engineer.
- TRAFFIC CONTROL: 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.
- 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 into any public drainage facility.
- Contractor shall assist the Engineer/Inspector in the recording of data on all utility lines and accessories as required by the City of Albuquerque for the preparation of record drawings. Contractor shall not cover utility lines and accessories until all data has been recorded. Record drawings shall be prepared by the consultant using information supplied by the contractor and the City Inspector.
- Existing curb and gutter, sidewalks and driveways not to be removed under the contract which are damaged or displaced by the Contractor, shall be removed and replaced by the Contractor at his expense.
- All work on this project shall be performed in accordance with applicable federal, state, and local laws, rules, and regulations concerning construction safety and health.
- The Contractor is responsible for protecting and maintaining all existing monumentation controls. In the event of inadvertent destruction or alteration, the Contractor must immediately notify the City Chief Surveyor.

INDEX TO DRAWINGS

SHEET	TITLE
1	COVER SHEET
2	COMANCHE ROAD - STA 110+15 TO 113+00
3	COMANCHE ROAD - STA 113+00 TO 121+00
4	COMANCHE ROAD - STA 121+00 TO 129+00
5	COMANCHE ROAD - STA 129+00 TO 137+00
6	COMANCHE ROAD - STA 137+00 TO 145+00
7	COMANCHE ROAD - STA 145+00 TO 153+00
8	COMANCHE ROAD - STA 153+00 TO END
9	MEDIAN DETAILS & STREET SECTIONS
10	SPECIAL WHEELCHAIR RAMP, SIDEWALK CULVERT DETAILS, TRAFFIC SIGNAL NOTES & FUNCTION CHART
11	LOOP DETECTOR & LARGE PULL BOX DETAILS
12	TYPICAL TRAFFIC STRIPING & MARKINGS PLANS
13	TRAFFIC CONTROL NOTES & STANDARDS
14	TYPICAL TRAFFIC CONTROL STREET CLOSURE PLANS
15-17	LANDSCAPING PLANS
18-20	IRRIGATION PLANS
21	PLANTING & IRRIGATION NOTES
22	PLANTING & IRRIGATION DETAILS

12. WARNING--EXISTING UTILITY LINE LOCATIONS are shown in an approximate manner only, and such lines may exist where none are shown. The location of any such existing lines is based upon information provided by the utility company, the Owner, or by others, and the information may be incomplete or may be obsolete by the time construction commences.
- The Engineer has undertaken no 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 therefor. 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.

Thomas O. Isaacson
10/29/03

WARNING
This is part of a record document. Record documents are based on reports submitted by others. Engineers cannot assure nor assume any responsibility or liability for the accuracy of record documents. Users of record documents are cautioned and advised to obtain independent verification of actual conditions.

UTILITY COMPANY CONTACTS

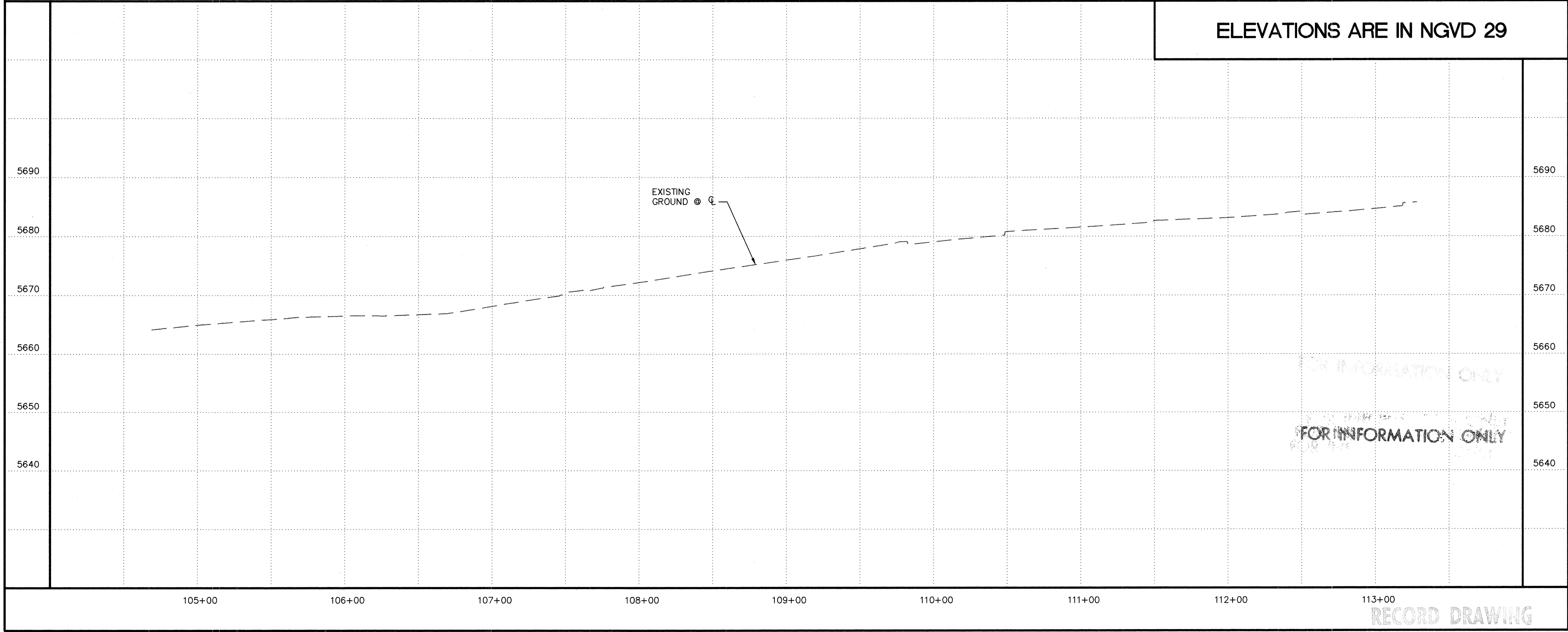
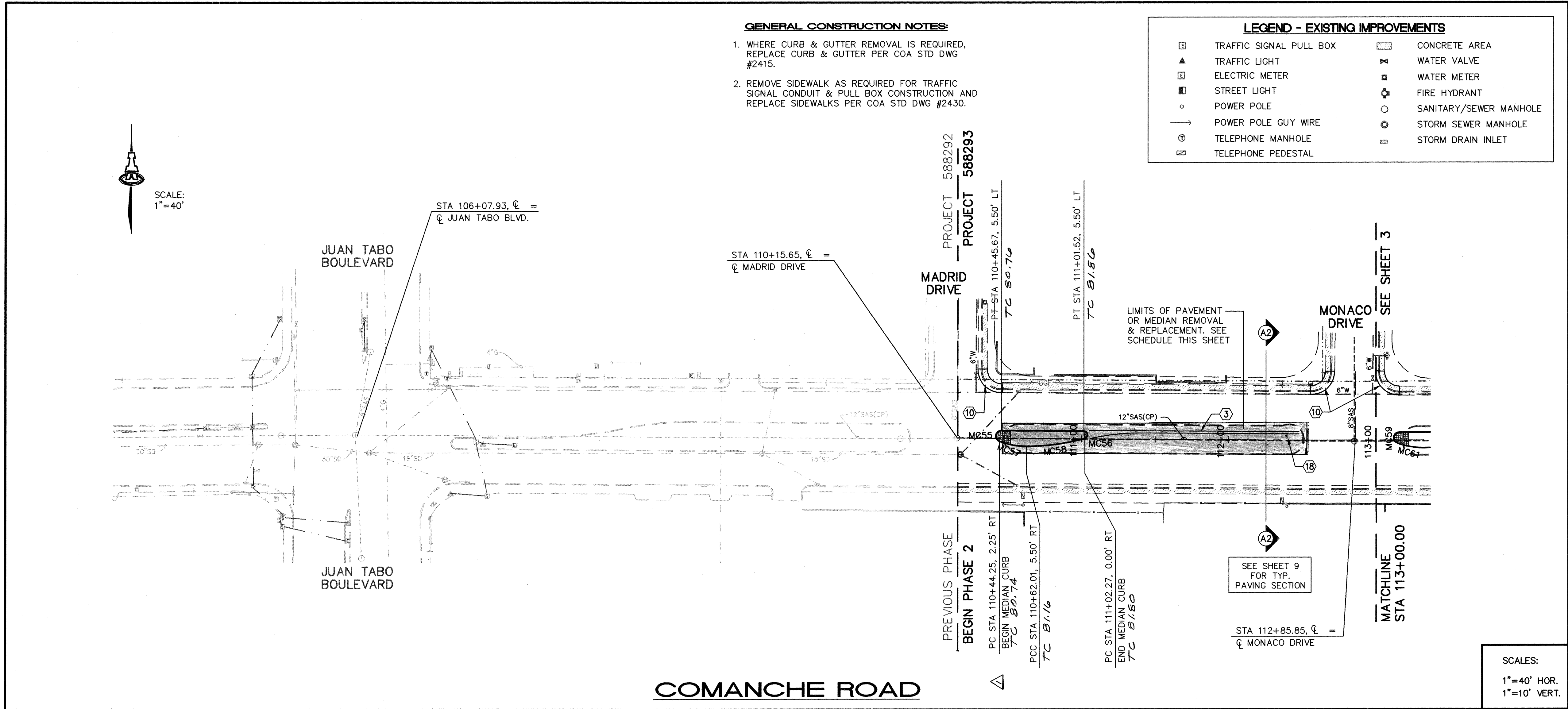
Crowel, David	Office phone: (505) 842-2911 Office fax: 842-2890 dcrowel@att.com	AT&T Resource Supervisor 111 3rd Street NW Albuquerque, NM 87103
Darnell, Andy	Office phone: (505) 346-4476 Office fax: 346-4481 andy.darnell@wcom.com	MCI Worldcom Operations Manager 3700 Singer NE, Suite A Albuquerque, NM 87109
Erickson, Rita	Office phone: (505) 761-6235 Office fax: (505) 761-0599 rita_erickson@cable.comcast.com	Comcast Planning and Design Supervisor 4611 Montbel Place NE Albuquerque, NM 87107
Gabel, Elisabeth	Office phone: (505) 241-7745 Office fax: (505) 241-7753 egabel@pnm.com	PNM - Gas Co. of NM Planning Engineer 4625 Edith Blvd. NE MS-GS66 Albuquerque, NM 87107
Garcia, Robert	Office Phone: (505) 241-3334 Office Fax: (505) 241-3620 rgarcia@pnm.com	PNM - Electric Engineering Representative 4201 Edith Blvd. NE Albuquerque, NM 87107
Gay, Bob	Office phone: (505) 898-2661 Office fax: 898-6379 bobgaynmui@yahoo.	New Mexico Utilities Operations Superintendent 4700 Irving Blvd. NW Suite 201 Albuquerque, NM 87114
Harrison, Royal	Office phone: (505) 838-7339 Office fax: 838-7380 Royal.Harrison@twtelecom.com	Time Warner Telecom Plant Manager 3830 Singer Blvd. NE Suite 1000 Albuquerque, NM 87109
Mares, John	Office phone: (505) 998-2274 Office fax: 998-9161 john.mares@espire.net	E. Spire 505 Marquette NW Suite 1605 Albuquerque, NM 87102
Mueller, Rick	Office phone: (505) 244-3161 Office fax: 244-0094 Mobile: 228-3329 rdmueller@mcleodusa.com	McLeod USA Supervisor of Outside Techs. 505 Marquette NW (Compass Bank) Suite 1600 Albuquerque, NM 87102
Muller, David	Office phone: (505) 245-8706 Office fax: 245-6831 or 245-6733 dmuller@uswest.com	Qwest/US West Capacity Provisioning Specialist 201 3rd Street NW (Bank of Albuquerque) Suite 700 Albuquerque, NM 87102
Nelson, Joshua	Mobile: (505) 991-2120 Office fax: (505) 217-0070 jhcocook_jn@att.net	CityNet Telecommunications Consultant 505 Marquette Ave. N.W. Suite 119-A Albuquerque, NM 87102
Olson, Greg	Office phone: (505) 768-2719 Office fax: (505) 768-3629 golson@cabq.gov	City Of Albuquerque Principal Engineer, Utility Development P.O. Box 1293 Albuquerque, NM 87103
Turley, Tom	Office phone: (636) 561-0339 Office fax: (636) 561-0355 tom.turley@genuity.com	Genuity Supervisor - OSP Maintenance 50 Centre on the Lake Lake Saint Louis, MO 63367

- Graded access for residents and businesses across the construction zone shall be maintained during construction.
- The Contractor shall be responsible for notifying utilities for any adjustment or relocation of existing utilities required by construction. The Contractor may be required to reschedule his activities to allow utility crews to perform their work. No additional costs will be allowed for delays or inconvenience caused by utility company crews.
- The Contractor shall confine his work within the street right-of-way. Overnight parking of the Contractor's equipment shall not obstruct access roads or traffic lanes.
- The contractor shall video tape the entire project work area prior to beginning construction work to record pre-construction conditions. Video-taping shall include traffic signals, school beacons, and traffic signs located in the medians. One set of videotapes shall be delivered to Ed Toledo, Traffic Engineering Operations prior to beginning construction.
- All excavation, trenching and shoring must be accomplished in accordance with OSHA 29CFR 1926.650 Subpart P.
- Contractor to notify residents 48 hours in advance of any road closures.
- Open excavations shall be tightly barricaded at the completion of each day and all open excavations shall be backfilled over weekends.
- All roadways shall be opened to traffic at the end of each day.
- Contractor shall maintain a graffiti-free work site. Contractor shall promptly remove any and all graffiti from equipment, whether permanent or temporary.
- The abbreviation "MUTCD" given in construction notes refers to the manual on Uniform Traffic Control Devices, latest addition.
- See "SPECIAL PROJECT TRAFFIC CONTROL NOTE", Sheet 13, for lane opening requirements.
- The contractor shall provide all required construction surveys including as-built surveys for record drawings.

FOR INFORMATION ONLY

△	All	Record Drawings	9/30/03						
REV.	SHEETS	CITY ENGINEER	DATE	USER	DEPARTMENT	DATE	USER	DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE				APPROVALS		ENGINEER		DATE	
				DRC Chairman		<i>John Darnell</i>		10-9-02	
				Transportation		<i>John Darnell</i>		9-25-02	
				Water/Wastewater		<i>John Darnell</i>		9-17-02	
				Hydrology		<i>John Darnell</i>		9-17-02	
				CIP		<i>John Darnell</i>		10-9-02	
City Project No.				588293		Sheet		1 Of 22	

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico
0172CVR-PH2.DWG.rh 09/16/02

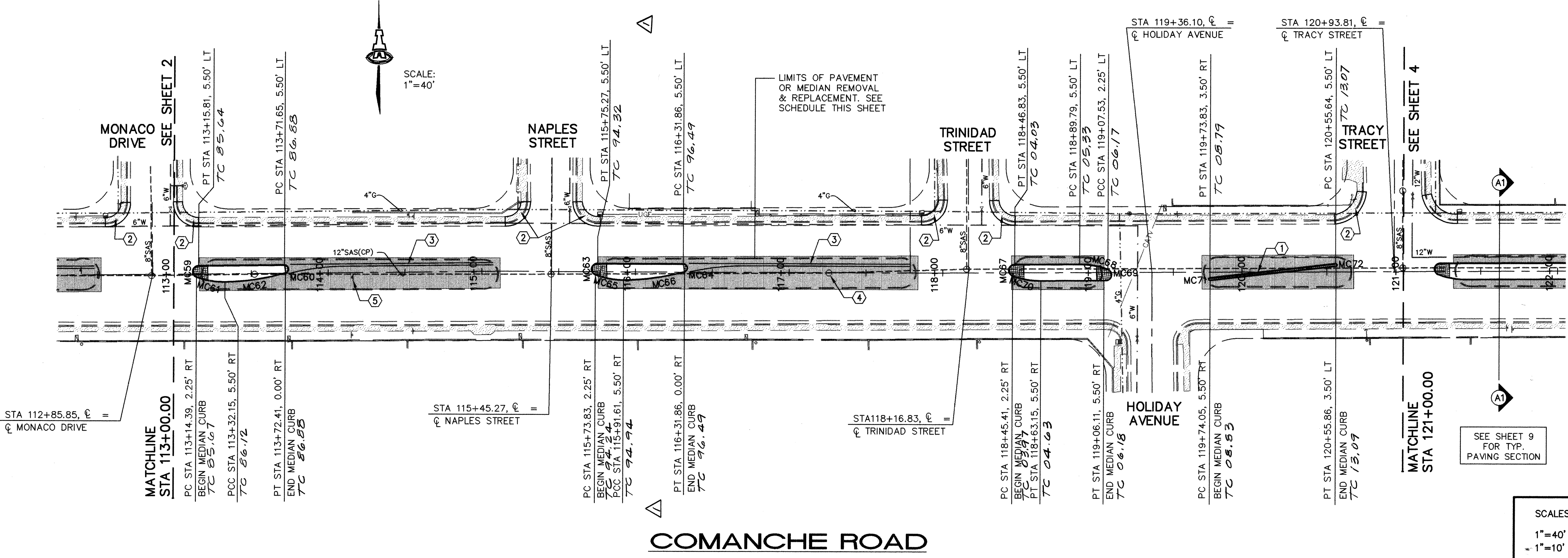


KEYED CONSTRUCTION NOTES				AS-BUILT INFORMATION			
1.	DELETED THIS PROJECT.			CONTRACTOR	Universal Constructors	DATE	7/03
2.	DELETED THIS PROJECT.			WORKED BY	Universal Constructors	DATE	7/03
3.	DOUBLE SOLID YELLOW LANE LINES PER TYPICAL DETAIL, SHEET 9.			ACCEPTANCE BY	EAR	DATE	7/03
4.	DELETED THIS PROJECT.			VERIFICATION BY	EAR	DATE	7/03
5.	DELETED THIS PROJECT.			DRAWING	7201	DATE	7/03
6.	DELETED THIS PROJECT.			MICRO-FILM INFORMATION			
7.	DELETED THIS PROJECT.			RECORDED BY		DATE	
8.	DELETED THIS PROJECT.						
9.	DELETED THIS PROJECT.						
10.	REMOVE & DISPOSE EXISTING CURB, GUTTER & SIDEWALK AND ADJACENT 1' STRIP OF PAVEMENT AND BUILD NEW CASE 1 WHEELCHAIR RAMP PER COA STD DWG #2441.						
11.	DELETED THIS PROJECT.						
12.	DELETED THIS PROJECT.						
13.	DELETED THIS PROJECT.						
14.	DELETED THIS PROJECT.						
15.	DELETED THIS PROJECT.						
16.	DELETED THIS PROJECT.						
17.	DELETED THIS PROJECT.						
18.	REMOVE AND INSTALL NEW "SPEED LIMIT" SIGN.						
19.	DELETED THIS PROJECT.						
20.	DELETED THIS PROJECT.						
SURVEY INFORMATION		FIELD NOTES		BENCH MARKS		ENGINEER'S SEAL	
1	SURV-TEK, INC.	2/99	12/01	STANDARD ACS BRASS TABLE STAMPED "9-021" DRILLED INTO THE TOP OF THE CONCRETE CURB ON THE EAST MEDIAN AT THE INTERSECTION OF COMANCHE RD NE AND EUBANK BLVD NE.			
1	ALS			NM STATE PLANE COORDINATES (NAD 1927)			
				X=415515.66, Y=1500259.11 G-G FACTOR: 0.9996434			
				ELEVATION = 5536.00 FEET (SLD 1929)			
7201 Record Drawings				NO.	DATE	REMARKS	BY
						DESIGN	
						REVISIONS	
						DESIGNED BY	TOI
						DRAWN BY	RFH
						CHECKED BY	TOI
						DATE	12/01
						DATE	12/01
						DATE	12/01

LEGEND - EXISTING IMPROVEMENTS

⊠	TRAFFIC SIGNAL PULL BOX	▤	CONCRETE AREA
▲	TRAFFIC LIGHT	⌵	WATER VALVE
⊞	ELECTRIC METER	⊠	WATER METER
■	STREET LIGHT	⊞	FIRE HYDRANT
○	POWER POLE	○	SANITARY/SEWER MANHOLE
→	POWER POLE GUY WIRE	○	STORM SEWER MANHOLE
⊞	TELEPHONE MANHOLE	⊞	STORM DRAIN INLET
⊞	TELEPHONE PEDESTAL		

- KEYED CONSTRUCTION NOTES
- BUILD TAPER MEDIAN, WIDTH= 2' F-F CURBS, W/ 4" THICK PATTERNED MEDIAN CONCRETE.
 - REMOVE & DISPOSE EXISTING CURB, GUTTER & SIDEWALK AND ADJACENT 1' STRIP OF PAVEMENT AND BUILD NEW CASE 1 WHEELCHAIR RAMP PER COA STD DWG #2441.
 - DOUBLE SOLID YELLOW LANE LINES PER TYPICAL DETAIL, SHEET 9.
 - EXISTING SAS MANHOLE. ADJUST EXISTING FRAME & COVER.
EXISTING COVER ELEV= 5699.99
PROPOSED COVER ELEV= 5699.12
 - REMOVE AND INSTALL NEW "SPEED LIMIT" SIGN.



PAVEMENT REMOVAL/REPLACEMENT SCHEDULE

FROM	TO	WIDTH
113+16	115+12	20'
115+75	117+84	20'
118+45	119+05	20'
119+68	120+68	20'

CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA
MC58	150.00	40.76	15°34'02"
MC59	4.00	11.11	159°11'35"
MC60	2.80	8.04	164°25'57"
MC61	50.00	18.16	20°48'26"
MC62	150.00	40.76	15°34'02"
MC63	4.00	11.11	159°11'35"
MC64	2.80	8.04	164°25'57"
MC65	50.00	18.16	20°48'26"
MC66	150.00	40.76	15°34'02"
MC67	4.00	11.11	159°11'35"
MC68	50.00	18.14	20°46'57"
MC69	4.00	11.11	159°11'35"
MC70	50.00	18.14	20°46'57"
MC71	1.00	3.14	180°00'00"
MC72	1.00	3.14	180°00'00"

FOR INFORMATION ONLY

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico 87102
0172P10.DWG 08/23/02

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: COMANCHE ROAD
MEDIAN RECONSTRUCTION & LANDSCAPING
STA 113+00.00 TO STA 121+00.00
PAVING PLAN & PROFILE

DESIGN REVIEW COMMITTEE
APPROVED
DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL
APPROVED
CITY ENGINEER

Last Design Update

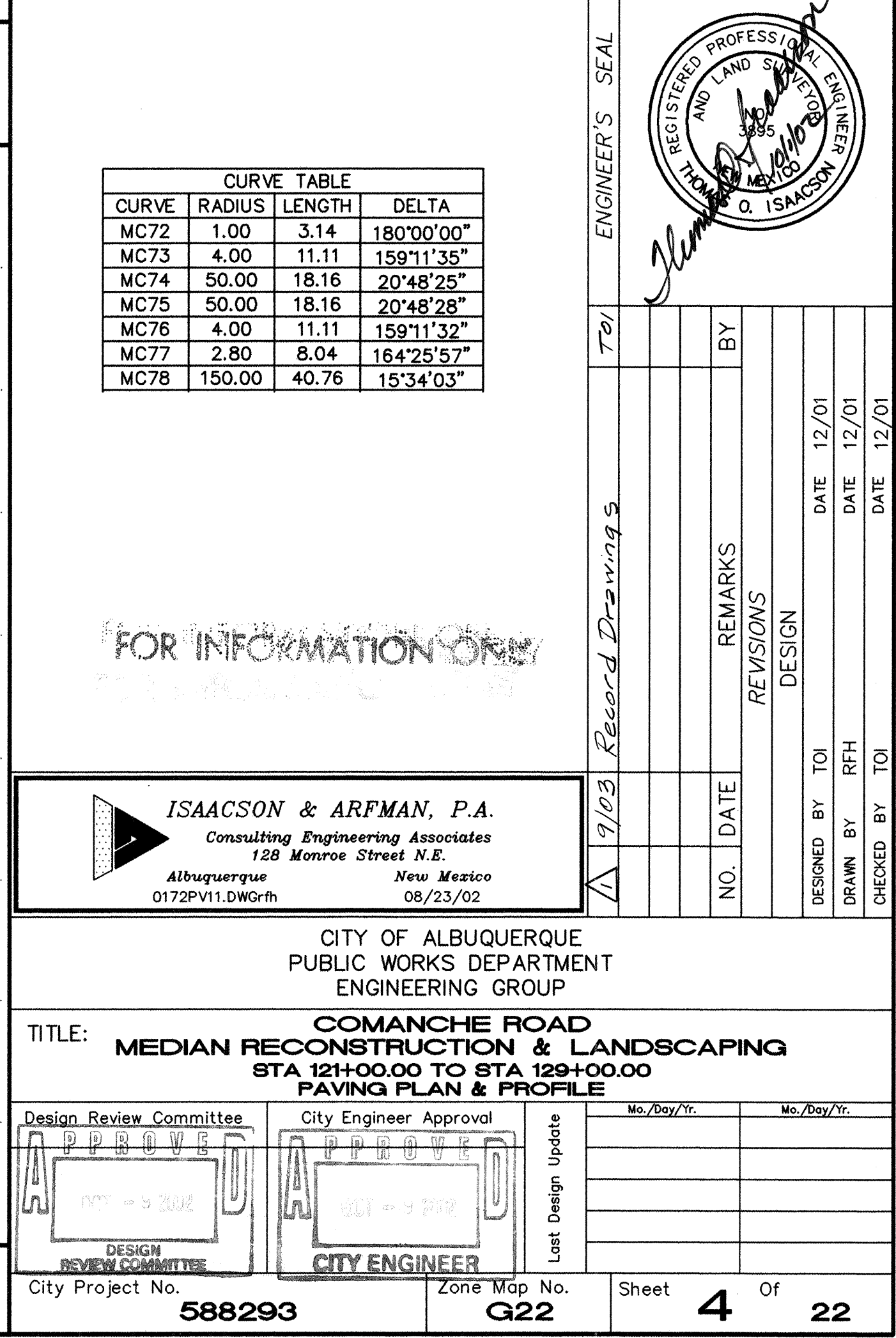
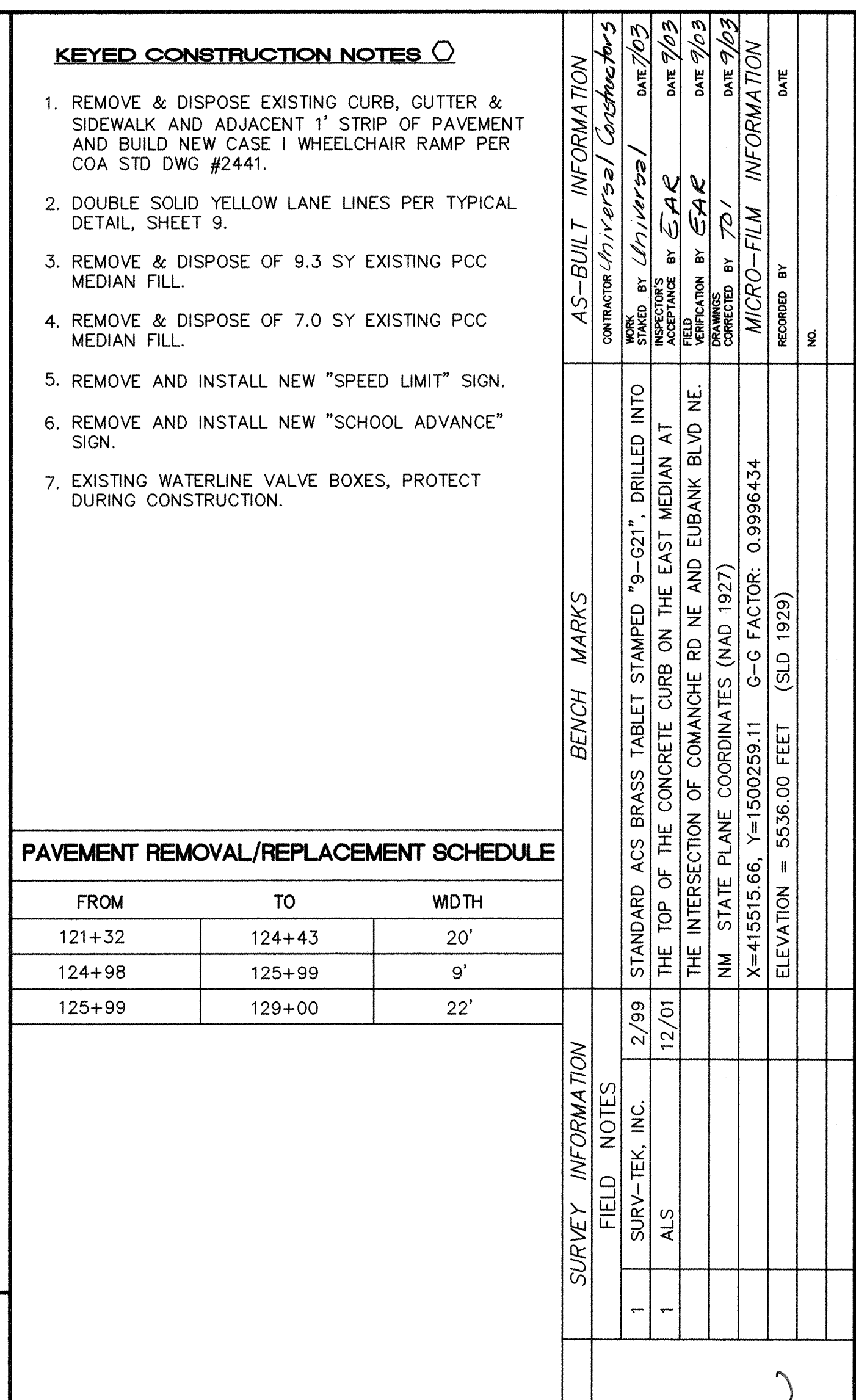
City Project No. 588293

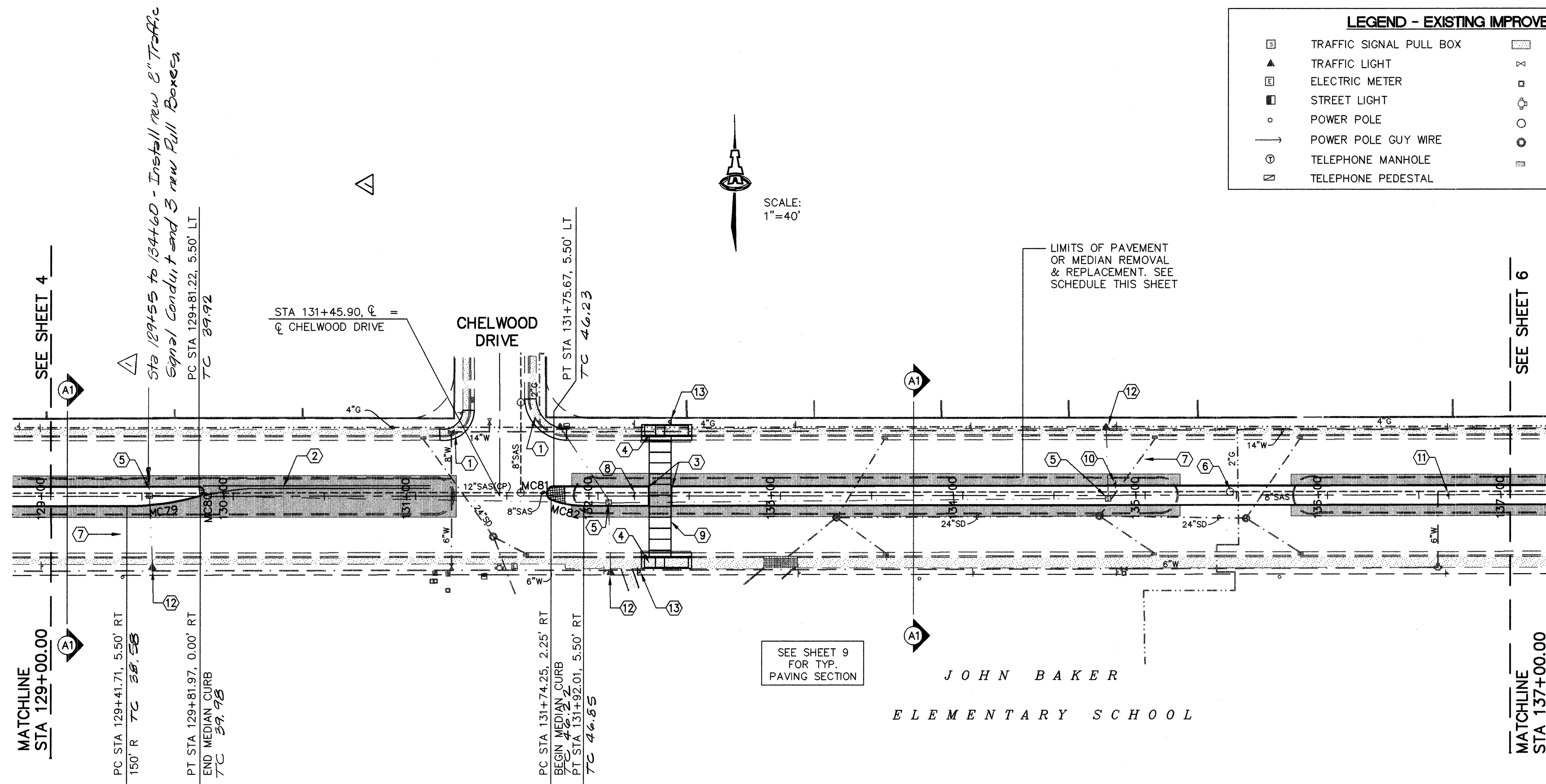
Zone Map No. G22

Sheet 3 of 22



NO.	DATE	REMARKS	BY
1	12/01	DESIGN	TOI
2	12/01	REVISIONS	TOI
3	12/01	REVISIONS	TOI
4	12/01	REVISIONS	TOI
5	12/01	REVISIONS	TOI
6	12/01	REVISIONS	TOI
7	12/01	REVISIONS	TOI
8	12/01	REVISIONS	TOI
9	12/01	REVISIONS	TOI
10	12/01	REVISIONS	TOI





LEGEND - EXISTING IMPROVEMENTS			
□	TRAFFIC SIGNAL PULL BOX	■	CONCRETE AREA
▲	TRAFFIC LIGHT	⋈	WATER VALVE
■	ELECTRIC METER	□	WATER METER
■	STREET LIGHT	⊕	FIRE HYDRANT
○	POWER POLE	○	SANITARY/SEWER MANHOLE
—○—	POWER POLE GUY WIRE	○	STORM SEWER MANHOLE
⊕	TELEPHONE MANHOLE	■	STORM DRAIN INLET
⊕	TELEPHONE PEDESTAL		

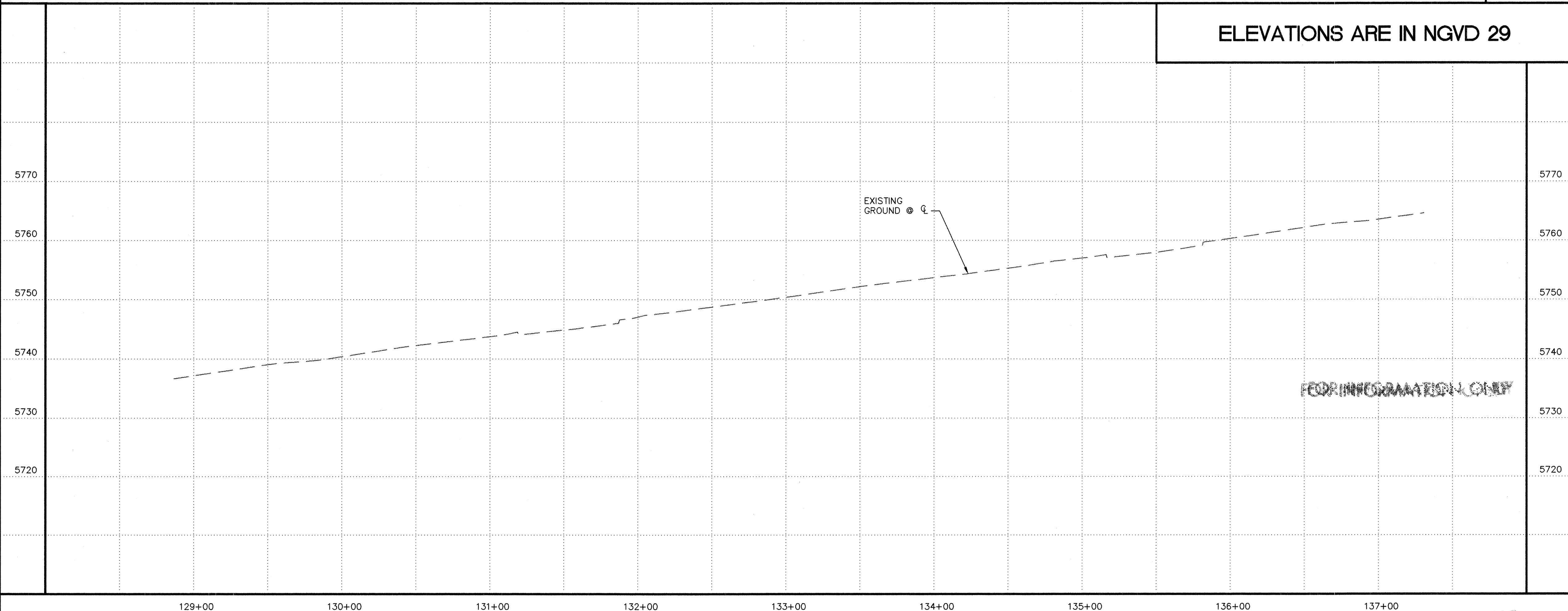
- KEYED CONSTRUCTION NOTES**
- REMOVE EXISTING CURB, GUTTER & SIDEWALK AND ADJACENT 1' STRIP OF PAVEMENT AND BUILD CASE 1 TYPE WHEELCHAIR RAMP PER STD DWG #2441.
 - DOUBLE SOLID YELLOW LANE LINES PER TYPICAL DETAIL, SHEET 9.
 - STA 132+28.0, 5.5' LT/RT TO STA 132+40.0, 5.5' LT/RT, BUILD 12' WIDE (F/F OF CURBS) OPENING IN MEDIAN FOR PEDESTRIAN CROSSWALK TO JOHN BAKER ELEMENTARY SCHOOL.
 - STA 132+34.0 LT & RT = CENTER OF LANDING FOR NEW WHEELCHAIR RAMP, SEE DETAILS ON SHEET 17.
 - EXISTING PULL BOX TO REMAIN.
 - EXISTING SAS MANHOLE, CONTRACTOR SHALL FIELD VERIFY LOCATION AND ADJUST FRAME & COVER TO NEW MEDIAN GRADE. PROPOSED COVER ELEV= 5758.58
 - INSTALL "SCHOOL/XING XING" MARKINGS PER MUTCD SPECIFICATIONS.
 - REMOVE, STOCKPILE, & RE-INSTALL "SCHOOL CROSSING" SIGN.
 - CONSTRUCT PEDESTRIAN CROSSWALK MARKINGS W/ SOLID 12" WIDE LINES SPACED 12' APART & LONGITUDINAL LINES AT 90° TO LINE OF CROSSWALK SPACED AT 6' ON CENTER.
 - REMOVE AND INSTALL NEW "U-TURN PROHIBITION" SIGN.
 - REMOVE AND INSTALL NEW "SCHOOL ADVANCE" SIGN.
 - EXISTING SCHOOL BEACON.
 - INSTALL NEW CROSSING SIGN, W11A-2, PER MUTCD STANDARD.

CURVE TABLE			
CURVE	RADIUS	LENGTH	DELTA
MC79	150.00	40.76	15°34'03"
MC80	2.80	8.04	164°25'57"
MC81	4.00	11.11	159°11'35"
MC82	50.00	18.16	20°48'25"

SCALES:
1"=40' HOR.
1"=10' VERT.

COMANCHE ROAD

ELEVATIONS ARE IN NGVD 29



PAVEMENT REMOVAL/REPLACEMENT SCHEDULE

FROM	TO	WIDTH
129+00	131+22	22'
131+85	135+19	22'
135+19	135+80	8'
135+80	137+00	22'

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, NM 87102
0172PV12.DWG-rh 08/24/02

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **COMANCHE ROAD
MEDIAN RECONSTRUCTION & LANDSCAPING
STA 129+00.00 TO STA 137+00.00
PAVING PLAN & PROFILE**

Design Review Committee: **APPROVE**
City Engineer Approval: **APPROVE**
Last Design Update: _____

City Project No. **588293** Zone Map No. **G22**

AS-BUILT INFORMATION
CONTRACTOR: Universal Construction
WORK ORDER: 1000000000
DATE: 7/03
ACCEPTED BY: E.A.R.
DATE: 7/03
DRAWING NO.: 1000000000
DATE: 7/03
MICRO-FILM INFORMATION
RECORDED BY: 701
DATE: 7/03

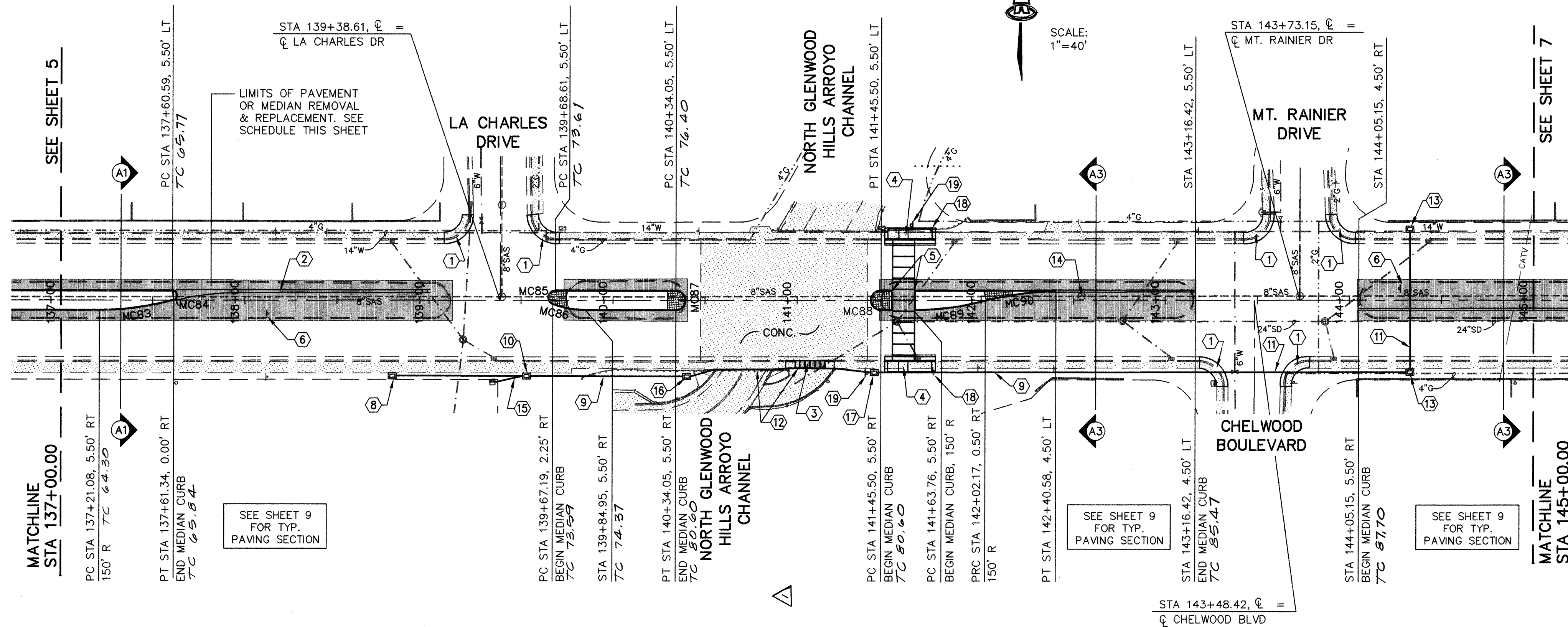
ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER
AND LAND SURVEYOR
STATE OF NEW MEXICO
ISAACSON & ARFMAN, P.A.
0172PV12.DWG-rh

REVISIONS

NO.	DATE	REMARKS
1	12/01	DESIGN
2	12/01	RFH
3	12/01	TOI

DESIGNED BY: TOI DATE: 12/01
DRAWN BY: RFH DATE: 12/01
CHECKED BY: TOI DATE: 12/01

Sheet **5** Of **22**

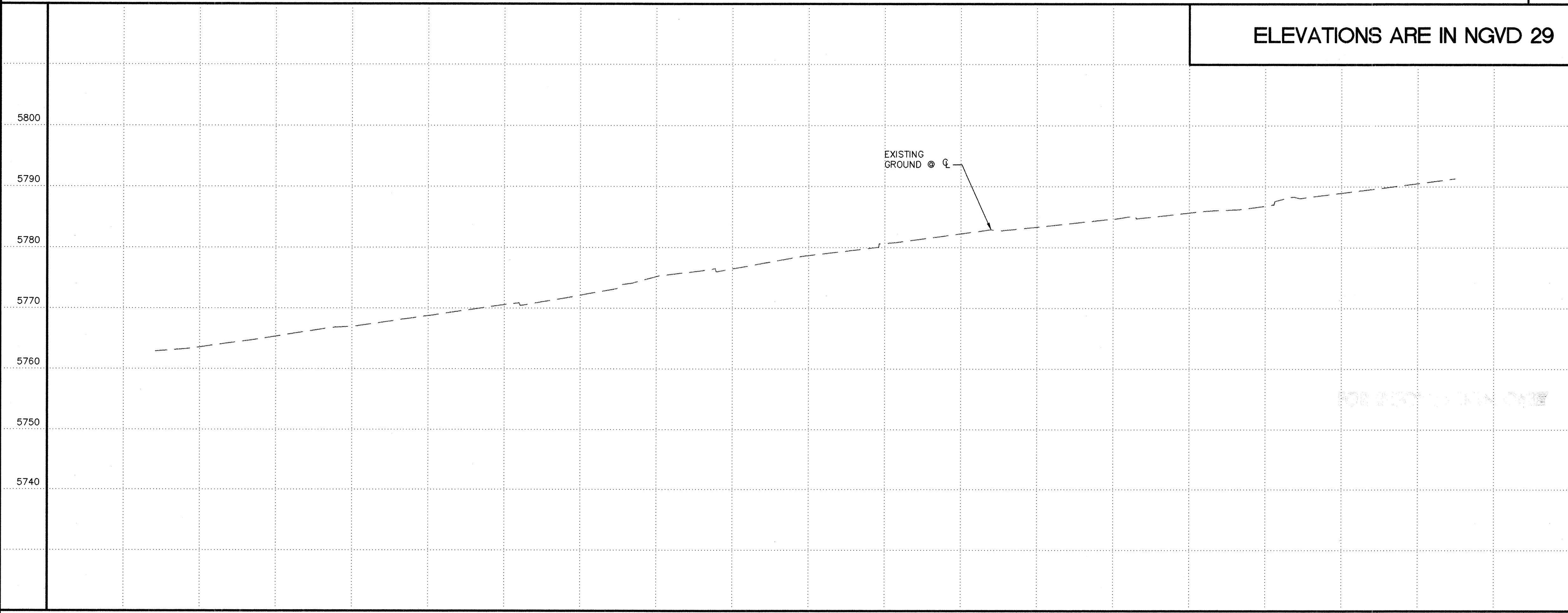


LEGEND - EXISTING IMPROVEMENTS			
□	TRAFFIC SIGNAL PULL BOX	□	CONCRETE AREA
▲	TRAFFIC LIGHT	⊗	WATER VALVE
□	ELECTRIC METER	□	WATER METER
■	STREET LIGHT	⊗	FIRE HYDRANT
○	POWER POLE	○	SANITARY/SEWER MANHOLE
—	POWER POLE GUY WIRE	⊗	STORM SEWER MANHOLE
⊗	TELEPHONE MANHOLE	⊗	STORM DRAIN INLET
⊗	TELEPHONE PEDESTAL		

- KEYED CONSTRUCTION NOTES**
- REMOVE & DISPOSE EXISTING CURB, GUTTER & SIDEWALK AND ADJACENT 1' STRIP OF PAVEMENT AND BUILD NEW CASE 1 WHEELCHAIR RAMP PER COA STD DWG #2441.
 - DOUBLE SOLID YELLOW LANE LINES PER TYPICAL DETAIL, SHEET 9.
 - NEW 6 SECTION, 24" SIDEWALK CULVERT STRUCTURE. SEE DETAILS SHEET 10.
 - STA 141+57.76 LT & RT = CENTER OF LANDING FOR NEW WHEELCHAIR RAMP, SEE DETAILS ON SHEET 9.
 - STA 141+51.76, 5.50' LT/RT TO STA 141+63.76, 5.50' LT/RT, BUILD 12' WIDE (F/F OF CURBS) OPENING IN MEDIAN FOR PEDESTRIAN CROSSWALK.
 - REMOVE AND INSTALL NEW "SPEED LIMIT" SIGN.
 - CONSTRUCT PEDESTRIAN CROSSWALK MARKINGS W/ SOLID 12" WIDE LINES SPACED 12' APART & LONGITUDINAL LINES AT 90° TO LINE OF CROSSWALK SPACED AT 6' ON CENTER.
 - STA 138+80 INSTALL STANDARD PULL BOX PER COA STD DWG #2520.
 - INSTALL 2" CONDUIT FOR FUTURE SCHOOL BEACON SERVICE.
 - STA 139+53 INSTALL STANDARD PULL BOX PER COA STD DWG #2520.
 - INSTALL 2" CONDUIT BY PUSHING BORING OR JACKING UNDER ROADWAY.
 - INSTALL 2" RIGID CONDUIT AT BRIDGE CROSSING & SUSPEND CONDUIT FROM BRIDGE DECK W/ APPROVED ANCHORS. BORE OPENINGS THRU CHANNEL SIDEWALKS TO RECEIVE CONDUIT. AT SIDE CHANNEL REMOVE & DISPOSE EXISTING SIDEWALK & INSTALL RIGID CONDUIT AT SIDEWALK LOCATION. SIDEWALK REPLACEMENT TO BE ACCOMPLISHED WITH SIDEWALK CULVERT CONSTRUCTION. TRANSITION CONDUIT LOCATION BEHIND SIDEWALK AT BRIDGE APPROACHES TO EAST & WEST. BRIDGE CROSSING PAY ITEM TO INCLUDE ALL WORK & MATERIALS EXCEPT CONDUIT, SIDEWALK REMOVAL, AND SIDEWALK CULVERT.
 - STA 144+33 INSTALL STANDARD PULL BOXES PER COA STD DWG #2520.
 - EXISTING SAS MANHOLE. CONTRACTOR SHALL FIELD VERIFY LOCATION & ADJUST FRAME & COVER TO NEW MEDIAN GRADE. PROPOSED COVER ELEV= 5682.94
 - PROVIDE METERED ELECTRICAL SERVICE.
 - STA 140+40 INSTALL STANDARD PULL BOX PER COA STD DWG #2520.
 - STA 141+42 INSTALL STANDARD PULL BOX PER COA STD DWG #2520.
 - REMOVE AND INSTALL NEW TRAFFIC SIGN.
 - INSTALL NEW CROSSING SIGN, W11A-2, PER MUTCD STANDARD.

SCALES:
1"=40' HOR.
1"=10' VERT.

ELEVATIONS ARE IN NGVD 29



CURVE TABLE			
CURVE	RADIUS	LENGTH	DELTA
MC83	150.00	40.76	15°34'04"
MC84	2.80	8.04	164°25'56"
MC85	4.00	11.11	159°11'35"
MC86	50.00	18.16	20°48'25"
MC87	5.50	17.28	180°00'00"
MC89	150.00	38.84	14°50'06"
MC90	150.00	38.84	14°50'06"

PAVEMENT REMOVAL/REPLACEMENT SCHEDULE

FROM	TO	WIDTH
137+00	139+13	20'
139+73	140+41	21'
141+84	142+52	21'
144+04	145+00	21'

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Consulting Engineering Associates
122 Monroe Street N.E.
Albuquerque, New Mexico 87102
0172PV13.DWG
08/24/02

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **COMANCHE ROAD
MEDIAN RECONSTRUCTION & LANDSCAPING
STA 137+00.00 TO STA 145+00.00
PAVING PLAN & PROFILE**

Design Review Committee: [Signature]
City Engineer Approval: [Signature]
Last Design Update: [Date]

City Project No. **588293** Zone Map No. **G22**

AS-BUILT INFORMATION

CONTRACTOR: Universal Constructors
WORK STARTED BY: Universal Constructors
DATE: 7/03
ACCEPTANCE BY: [Signature]
DATE: 7/03
REVISIONS BY: [Signature]
DATE: 7/03
DRAWINGS CORRECTED BY: [Signature]
DATE: 7/03
MICRO-FILM INFORMATION
RECORDED BY: [Signature]
DATE: [Signature]

BENCH MARKS

STANDARD ACS BRASS TABLE STAMPED "9-021", DRILLED INTO THE TOP OF THE CONCRETE CURB ON THE EAST MEDIAN AT THE INTERSECTION OF COMANCHE RD NE AND EUBANK BLVD NE. NM STATE PLANE COORDINATES (NAD 1927) X=415515.66, Y=1500259.11 G-G FACTOR: 0.9996434 ELEVATION = 5536.00 FEET (SLD 1929)

SURVEY INFORMATION

FIELD NOTES

1	2/99	SURV-TEK, INC.
1	12/01	ALS

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER
AND LAND SURVEYOR
STATE OF NEW MEXICO
JAMES Q. ISAACSON
10107

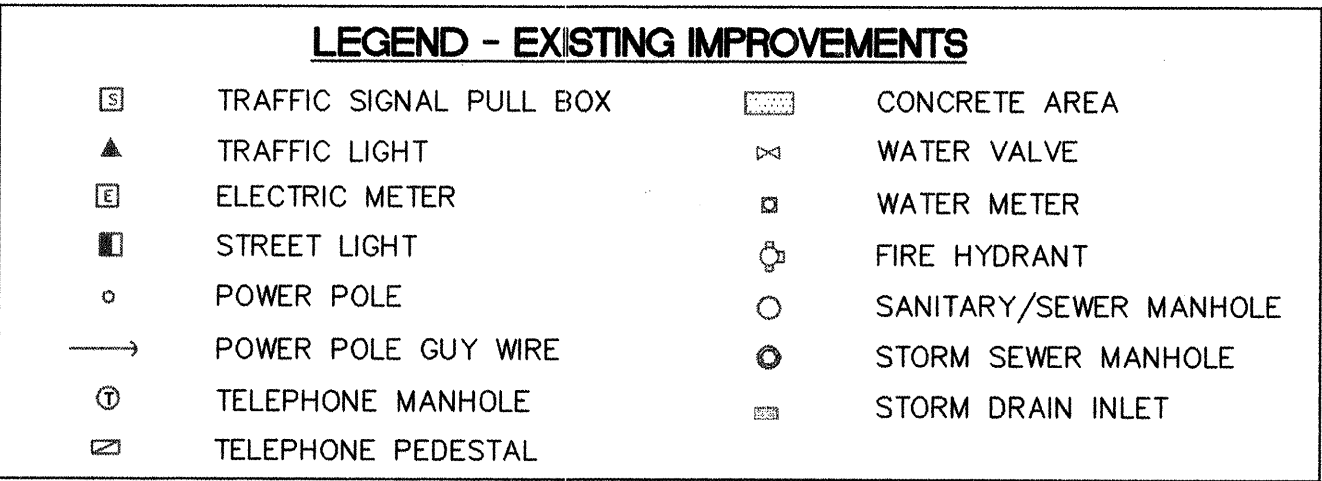
9/03 Record Drawings

REVISIONS

NO.	DATE	REMARKS
1	12/01	DESIGN
2	12/01	DESIGN
3	12/01	DESIGN

DESIGNED BY: TOI
DRAWN BY: RFH
CHECKED BY: TOI

Sheet **6** Of **22**



1. REMOVE & DISPOSE EXISTING CURB, GUTTER & SIDEWALK AND ADJACENT 1' STRIP OF PAVEMENT AND BUILD NEW CASE 1 WHEELCHAIR RAMP PER COA STD DWG #2441.
2. REMOVE AND INSTALL NEW "SCHOOL ADVANCE" SIGN.
3. REMOVE AND INSTALL NEW "SPEED LIMIT" SIGN.
4. EXISTING SAS MANHOLE. ADJUST EXISTING FRAME & COVER.
EXISTING COVER ELEV= 5794.49
PROPOSED COVER ELEV= 5793.64

FROM	TO	WIDTH
145+00	147+92	20'
148+59	151+12	20'
151+75	153+00	20'

ENGINEER'S SEAL



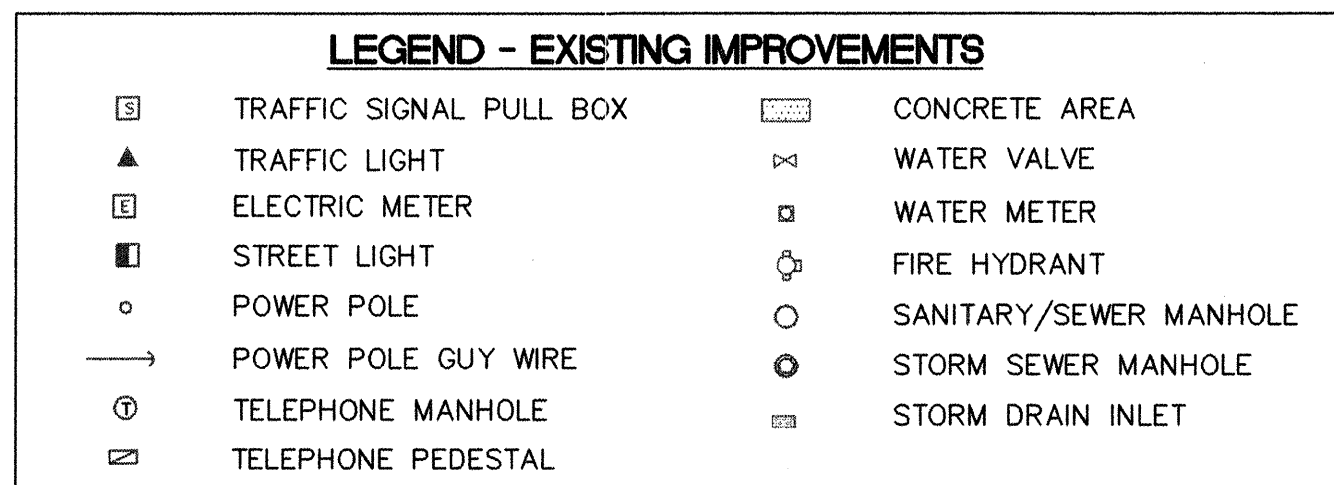
ELEVATIONS ARE IN NGVD 29

CURVE TABLE			
CURVE	RADIUS	LENGTH	DELTA
MC90	150.00	38.84	14°50'06"
MC91	150.00	38.84	14°50'06"
MC92	150.00	38.84	14°50'06"
MC93	150.00	38.84	14°50'06"
MC94	150.00	38.84	14°50'06"
MC95	4.00	11.15	159°45'07"
MC96	50.00	18.14	20°47'29"
MC97	50.00	18.16	20°48'25"
MC98	4.00	11.11	159°11'35"
MC99	150.00	38.84	14°50'11"
MC100	150.00	38.84	14°50'12"
MC101	150.00	38.84	14°50'10"

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **COMANCHE ROAD
MEDIAN RECONSTRUCTION & LANDSCAPING
STA 145+00.00 TO STA 153+00.00
PAVING PLAN & PROFILE**

153+00
RECORD DRAWING



1. STA 156+23.0 TO 158+81.1 LT & 156+23.0 TO 158+08.1 RT, MILL GUTTER PAN AND ADJACENT ASPHALT PAVEMENT. BUILD 3.5' BIKE LANE PER SECTION A2, SHEET 9.
2. STA 158+74.6, 5.9' LT, REMOVE EXISTING TRAFFIC SIGNAL & RELOCATE TO STA 158+74.6, 5.0' LT. REMOVE & DISPOSE EXISTING PEDESTAL FOUNDATION & BUILD NEW PEDESTAL FOUNDATION PER C&A STD DWG #825.
EXISTING TOP OF FOUNDATION= 5846.84
NEW TOP OF FOUNDATION= 5846.84
3. STA 158+78.7, 6.1' LT, REMOVE & DISPOSE EXISTING PULL BOX, INSTALL NEW LARGE PULL BOX AT STA 158+78.7, 5.0' LT., SEE DETAILS SHEET 12.
4. BUILD NEW 6'X40' LOOP DETECTOR AND CONNECT TO PULL BOX. SEE LOOP DETECTOR DETAILS SHEET 11.
5. REMOVE & DISPOSE OF 30 SY EXISTING PCC MEDIAN FILL.
6. REMOVE & DISPOSE OF 88.8 SY EXISTING PATTERNED CONC. MEDIAN FILL.
7. STA 158+81.3, 5.6' LT, REMOVE EXISTING ELECTRIC PULL BOX & RELOCATE TO STA 158+81.3, 5.0' LT.

CURVE TABLE			
CURVE	RADIUS	LENGTH	DELTA
MC99	150.00	38.84	14°50'11"
MC100	150.00	38.84	14°50'12"
MC101	150.00	38.84	14°50'10"
MC102	150.00	38.84	14°50'12"
MC103	150.00	40.75	15°33'49"
MC104	150.00	40.75	15°33'49"
MC105	150.00	36.83	14°04'12"
MC106	150.00	36.83	14°04'12"
MC107	1.50	4.71	180°00'05"

ELEVATIONS ARE IN NGVD 29



FROM	TO	WIDTH
153+00	153+17	20'
153+17	153+96	8'
154+57	155+55	5'
156+06	156+98	5'
156+58	157+58	16'
157+58	158+85	5'



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 Albuquerque New Mexico
 0172Pv15.DWG/rfh 08/23/02

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: COMANCHE ROAD
MEDIAN RECONSTRUCTION & LANDSCAPING
STA 153+00.00 TO END
PAVING PLAN & PROFILE

Design Review Committee

APPROVED

DATE: 9/1/88

DESIGN REVIEW COMMITTEE

City Engineer Approval

APPROVE

CET - 9 2012

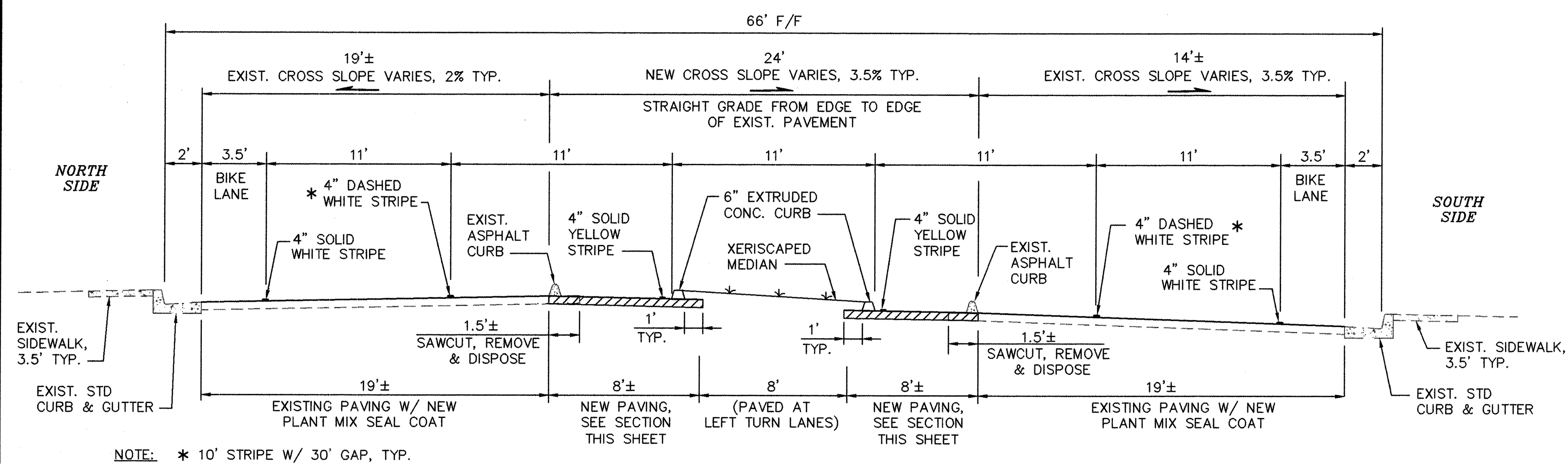
CITY ENGINEER


 Last Design Update

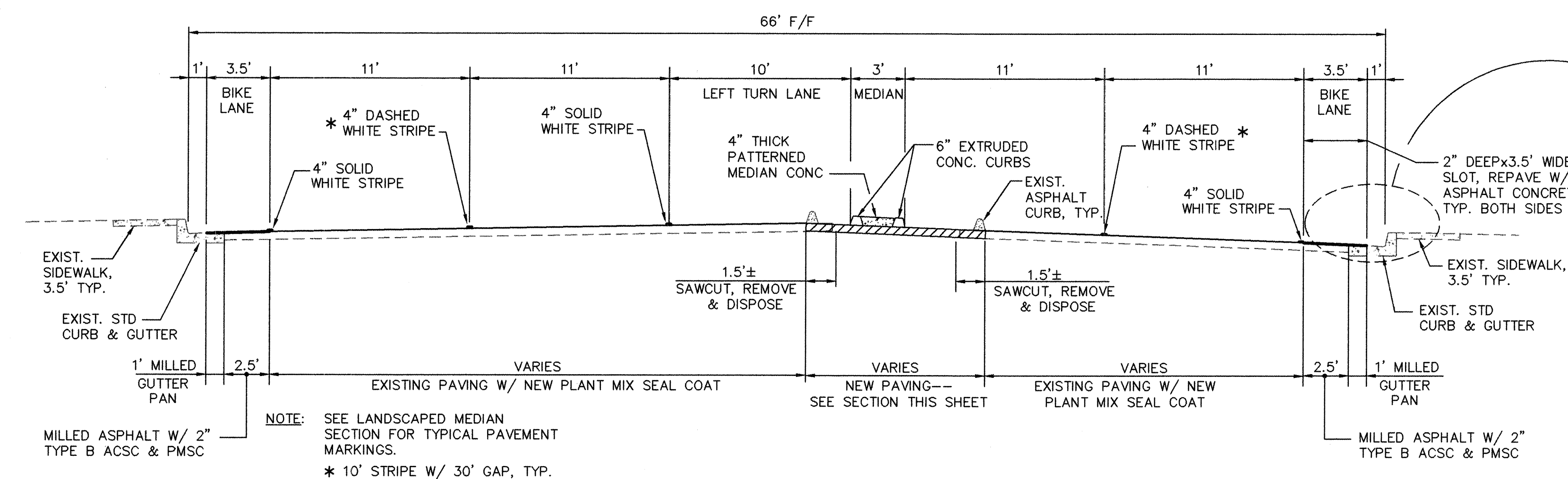
City Project No. **588293**

Zone Map No.
G22

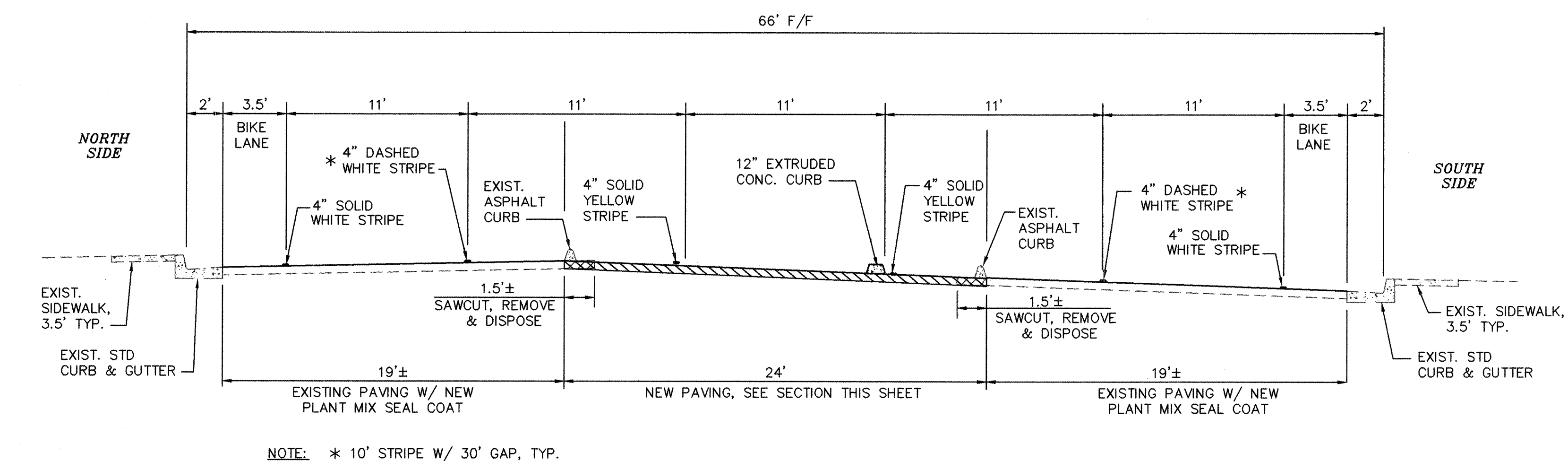
Sheet **8** Of **22**



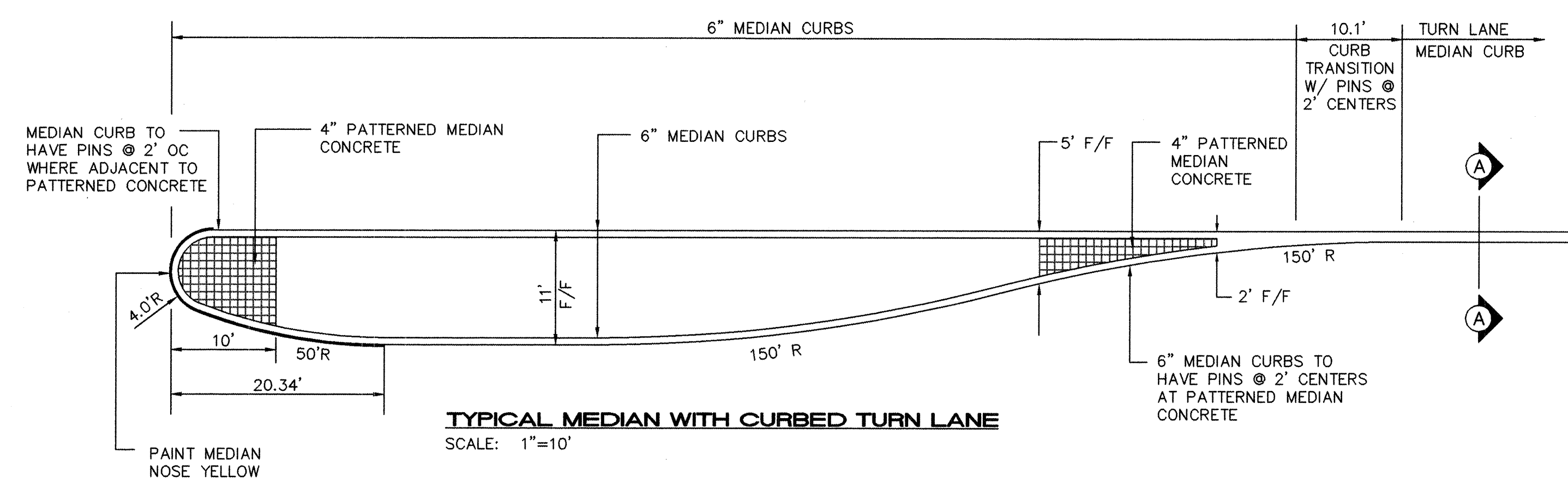
SECTION A1 - STREET SECTION AT LANDSCAPED MEDIAN
SCALE: 1"=5'



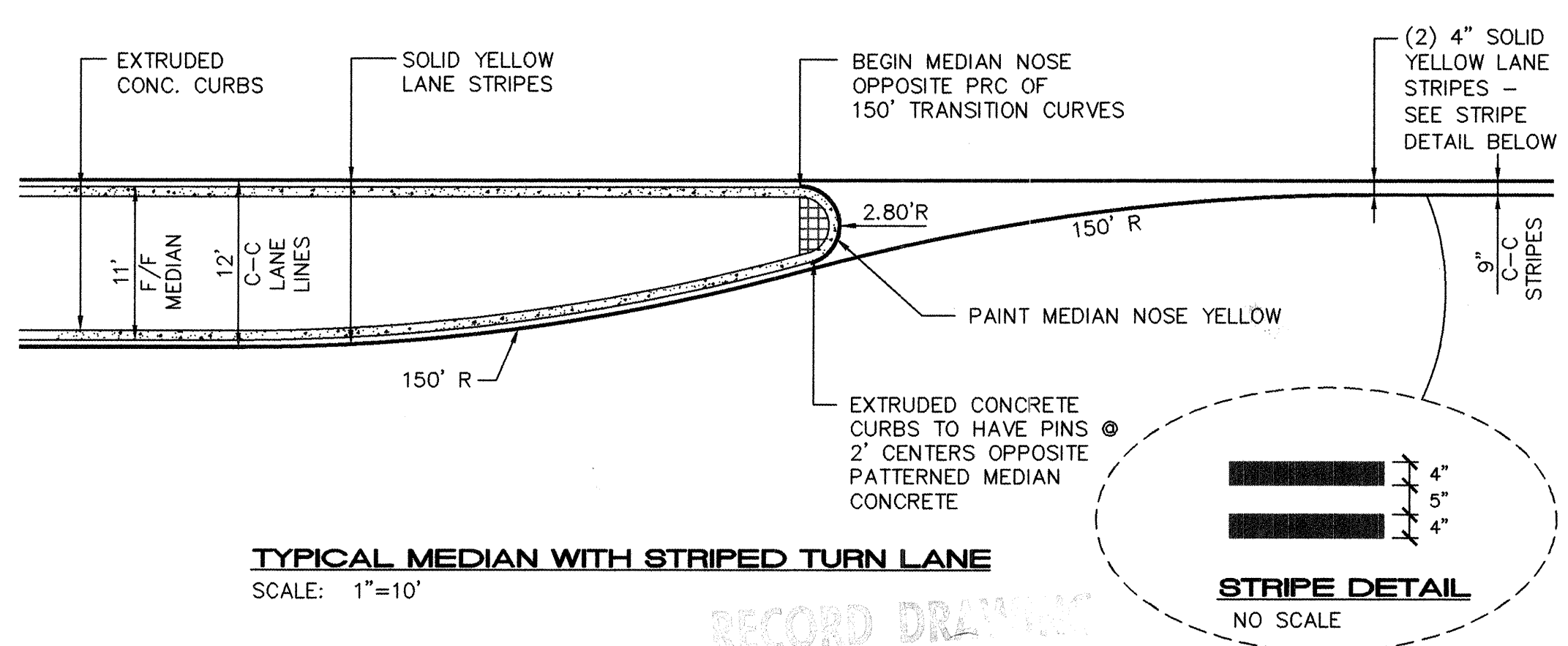
SECTION A2 - STREET SECTION AT MEDIAN WITH TRAFFIC SIGNAL
SCALE: 1"=5'



SECTION A3 - STREET SECTION AT LEFT TURN LANE
SCALE: 1"=5'

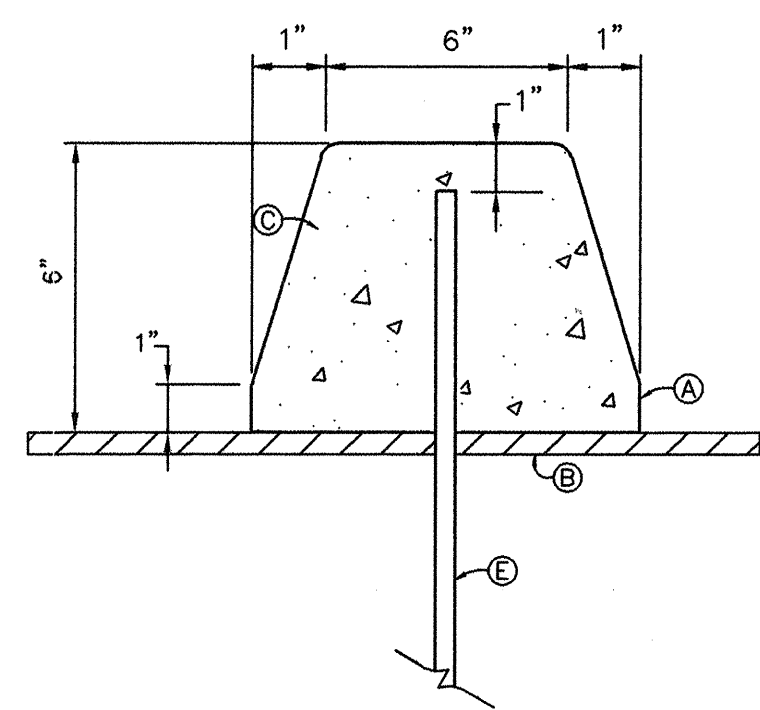


TYPICAL MEDIAN WITH CURBED TURN LANE
SCALE: 1"=10'

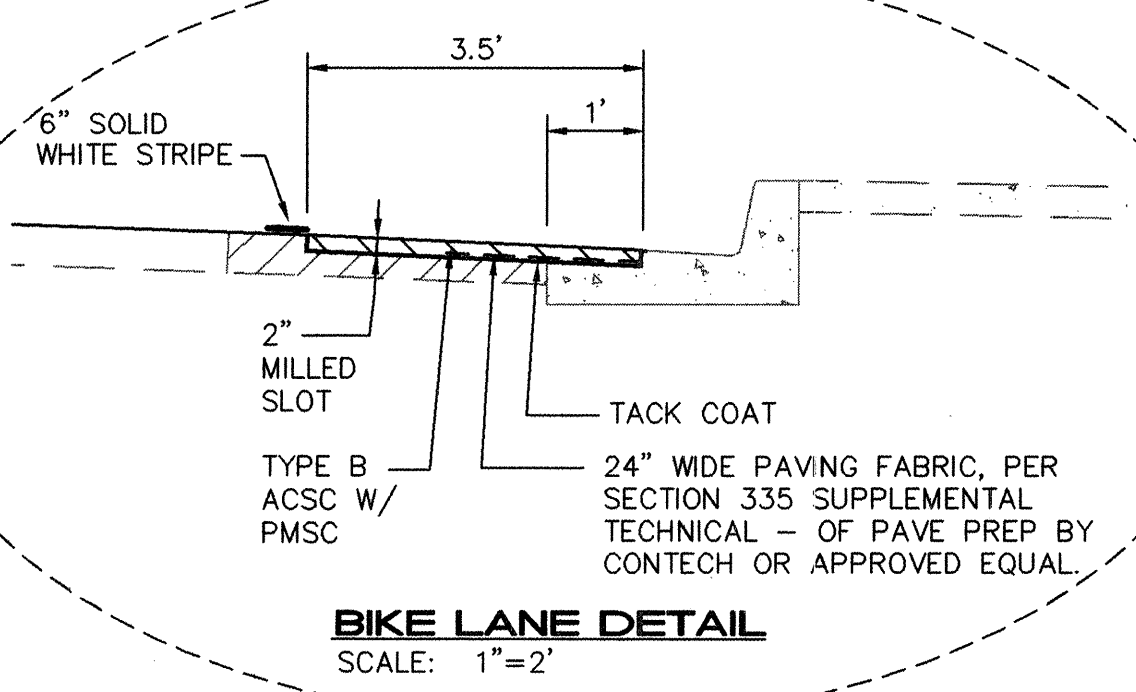


TYPICAL MEDIAN WITH STRIPED TURN LANE
SCALE: 1"=10'

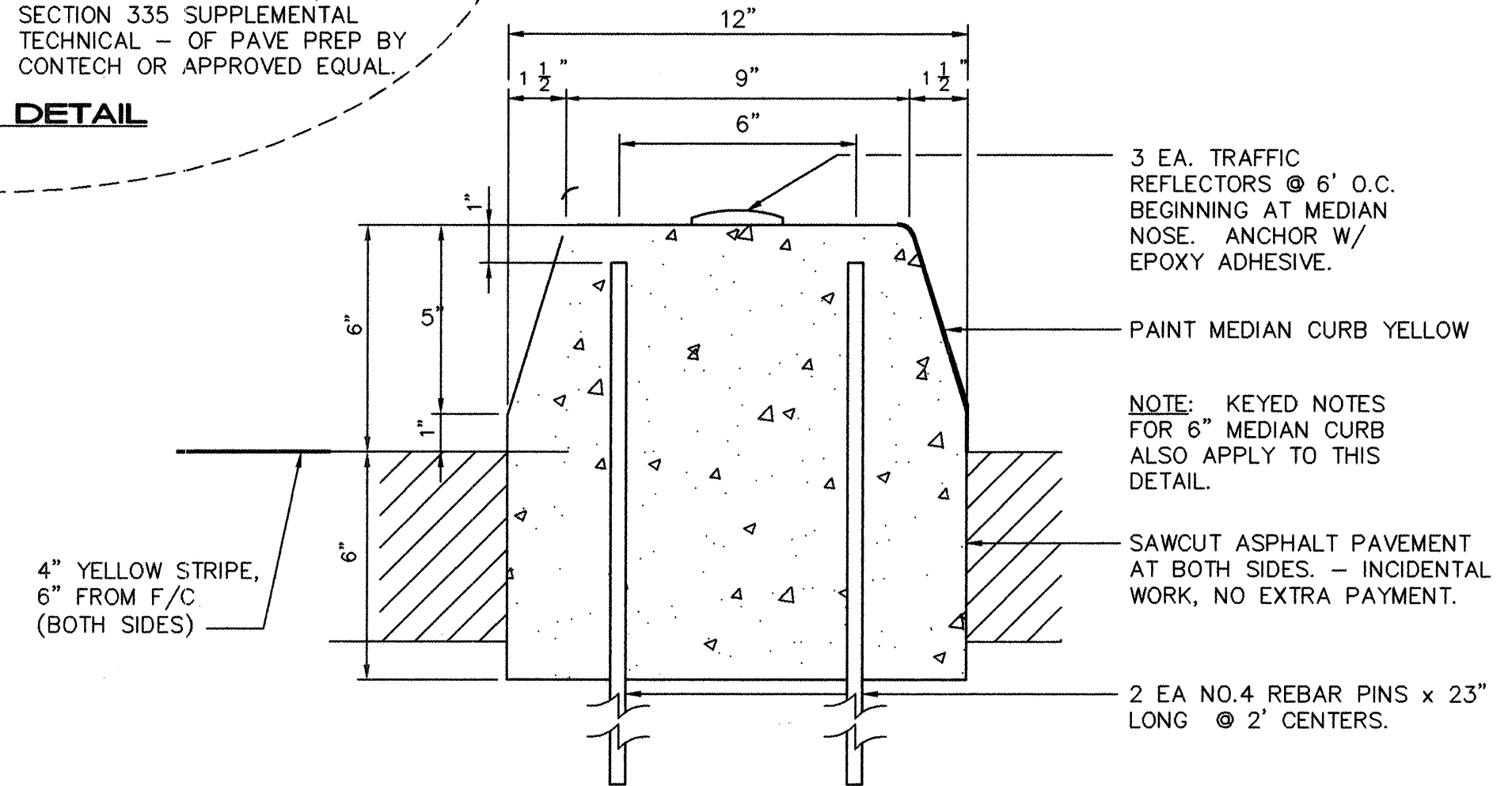
MEDIAN CONCRETE
TYPE: BOMANITE* PATTERN, ASHLER SLATE
COLOR HARDENER: BOMANITE* BASE COLOR, DESERT TAN B-12
ACCENT COLORS: BOMANITE* COLORS, COBBLESTONE B-19, MEXICAN TILE B-7 AND HARVEST AMBER B-9. PROPORTIONS TO BE DETERMINED IN FIELD.
APPLICATION: BASE COLOR TO BE APPLIED EVENLY AND WORKED INTO SURFACE. ACCENT COLORS TO BE APPLIED AND BLENDED INTO SURFACE TO CREATE AN EVEN, NOT SPOTTY TONE. WORK TO BE DONE PER MANUFACTURERS RECOMMENDATION.
FIELD SAMPLE: A FIELD SAMPLE SHALL BE CONSTRUCTED AND ONCE APPROVED SERVE AS A CONTROL FOR THE PROJECT.
* OR APPROVED EQUAL.



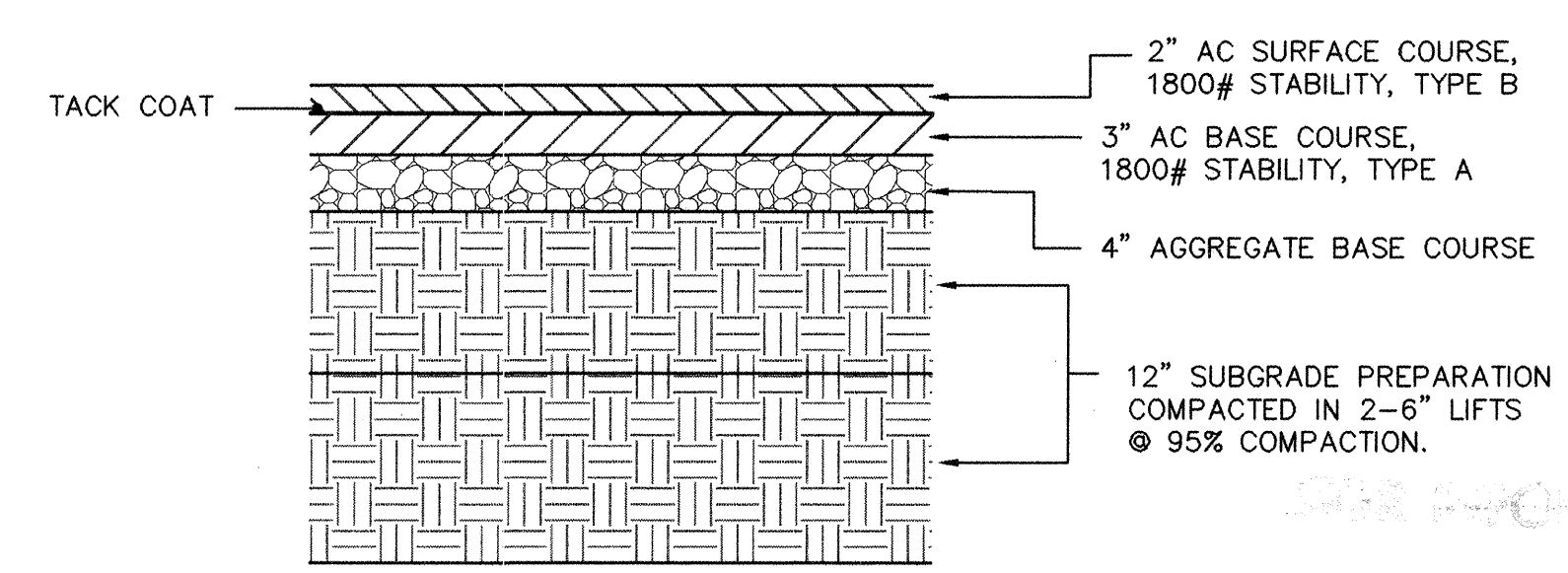
6\"/>



BIKE LANE DETAIL
SCALE: 1"=2'



SECTION A - TURN LANE MEDIAN CURB
SCALE: 3\"/>



PAVEMENT SECTION
NO SCALE

- KEYED NOTES**
- SEAL SURFACES WITH TROWEL PRIOR TO CURING
 - CSS I BITUMENS ON ASPHALTIC PAVEMENT EPOXY RESIN ON CONCRETE PAVEMENT (PROBOND 820 SERIES OR APPROVED EQUAL).
 - EXTRUDED CONCRETE CURB PER COA STANDARD SPEC. 101 & 340 WITH FOLLOWING EXCEPTIONS:
--1.5 # PER CY OF POLYPROPYLENE, COLLATED FIBRILLATED FIBERS (FIBER MESH OR APPROVED EQUAL)
--NON-CHLORIDE RETARDER PER MANUFACTURERS RECOMMENDATION
 - CONSTRUCTION JOINTS SHALL BE INSTALLED EVERY 15 LINEAL FEET.
 - NO. 4 REBAR PINS x 23" LONG DRIVEN 18" INTO PAVEMENT & SUBGRADE. DRILL HOLES IN PAVEMENT & SUBGRADE IF NECESSARY TO DRIVE PINS TO DEPTH AND SEAL WITH EPOXY. PLACE PINS AT 2 FOOT CENTERS AT THE LOCATION SHOWN ON TYPICAL MEDIAN DETAILS.

AS-BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	UNIVERSAL CONSTRUCTORS	DATE	7/02	STANDARD ACS BRASS TABLET STAMPED "9-021", DRILLED INTO THE TOP OF THE CONCRETE CURB ON THE EAST MEDIAN AT THE INTERSECTION OF COMANCHE RD NE AND EUBANK BLVD NE.	DATE	7/02	DATE	7/02	DATE	7/02	DATE	DATE	DATE	DATE	DATE
WORK SHOWN BY	Universal	DATE	7/02	DATE	7/02	DATE	7/02	DATE	7/02	DATE	7/02	DATE	7/02	DATE	7/02
FIELD ACCEPTANCE BY	EAKE	DATE	7/02	DATE	7/02	DATE	7/02	DATE	7/02	DATE	7/02	DATE	7/02	DATE	7/02
REVISIONS		DATE		REVISIONS		DATE		REVISIONS		DATE		REVISIONS		DATE	
DESIGNED BY	TOI	DATE	01/02	DESIGNED BY	TOI	DATE	01/02	DESIGNED BY	TOI	DATE	01/02	DESIGNED BY	TOI	DATE	01/02
DRAWN BY	RFH	DATE	01/02	DRAWN BY	RFH	DATE	01/02	DRAWN BY	RFH	DATE	01/02	DRAWN BY	RFH	DATE	01/02
CHECKED BY	TOI	DATE	01/02	CHECKED BY	TOI	DATE	01/02	CHECKED BY	TOI	DATE	01/02	CHECKED BY	TOI	DATE	01/02

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Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico 87102
0172MDTL1-PH2.DWG/rh 08/23/02

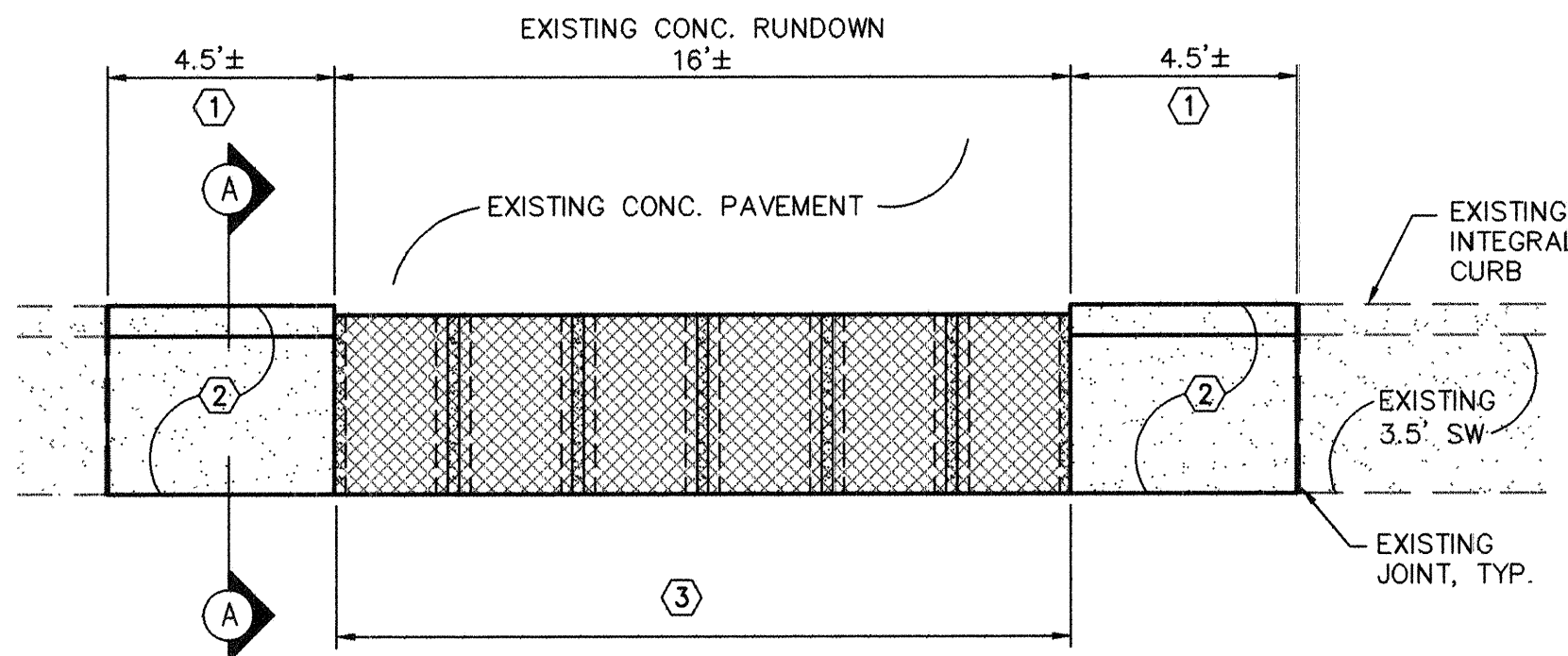
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **COMANCHE ROAD
MEDIAN RECONSTRUCTION & LANDSCAPING
MEDIAN DETAILS & STREET SECTIONS**

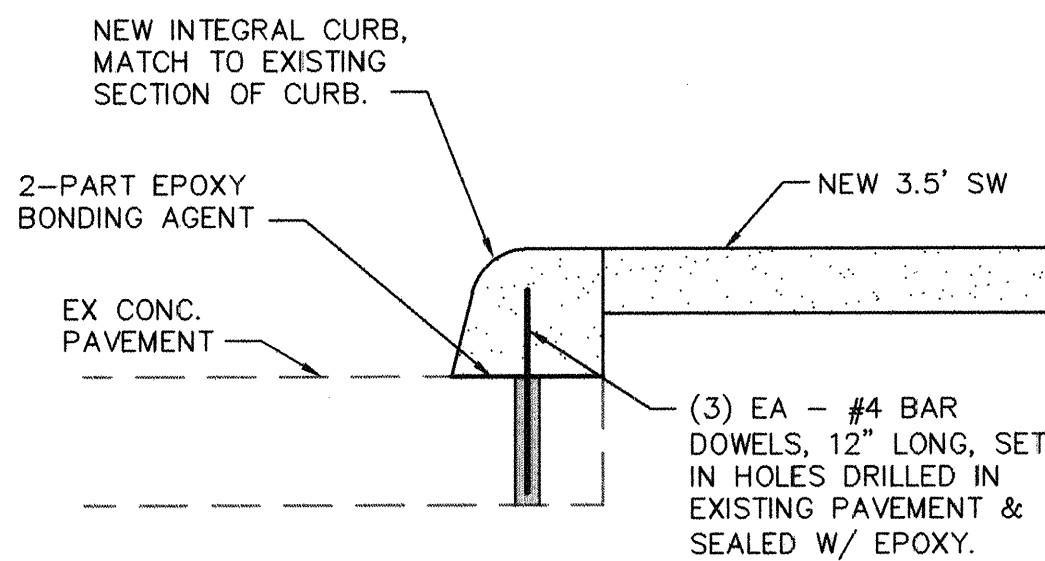
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED	APPROVED			
DESIGN REVIEW COMMITTEE	CITY ENGINEER			
City Project No.	Zone Map No.	Sheet	9	Of 22
588293	G22			

KEYED NOTES:

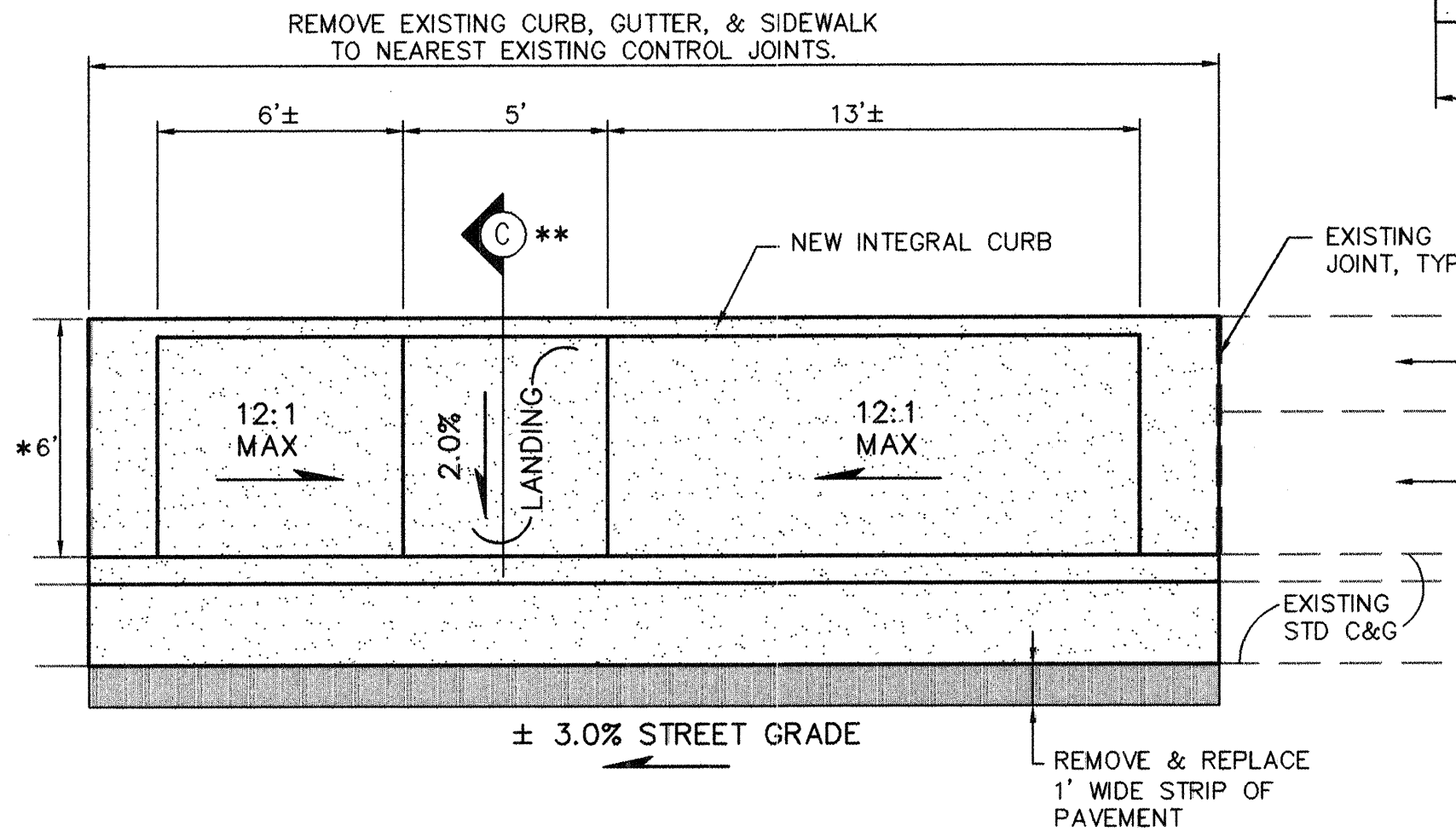
1. REMOVE & DISPOSE OF EXISTING SIDEWALK & INTEGRAL CURB - SAWCUT @ FLOWLINE.
2. BUILD SIDEWALK & INTEGRAL CURB.
3. BUILD 6 SECTION, 24" WIDE SIDEWALK CULVERTS. REMOVE & DISPOSE EXISTING SIDEWALK AND REPLACE WITH NEW SIDEWALK PER COA STD DWG #2236.



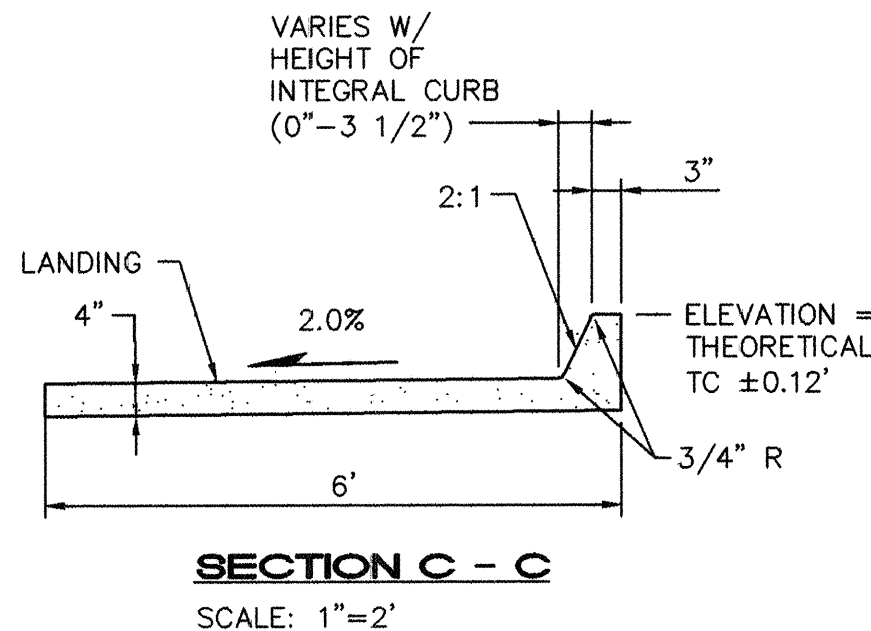
**24" SIDEWALK CULVERTS AT
NORTH GLENWOOD HILLS CHANNEL**
SCALE: 1"=4'



SECTION A - A
SCALE: 1"=1'



TYPICAL MID-BLOCK WHEELCHAIR RAMP
SCALE: 1"=2'



- NOTES:
- * REDUCE TO 3.5' WHERE REQUIRED BY EXISTING IMPROVEMENTS.
 - ** SECTION 'C' REFERS TO CENTER OF LANDING AS STATIONED ON P & P SHEETS.

FOR INFORMATION ONLY

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Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico 87102
0172MDTL2-PH2.DWG/rh 08/02/02

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **COMANCHE ROAD
MEDIAN RECONSTRUCTION & LANDSCAPING
SPECIAL WHEELCHAIR RAMP, SIDEWALK CULVERT DETAILS,
TRAFFIC SIGNAL NOTES & FUNCTION CHART**

Design Review Committee:
City Engineer Approval:

City Project No. **588293** Zone Map No. **G22**

Sheet **10** Of **22**

AS-BUILT INFORMATION			
CONTRACTOR	Universal Constructors	DATE	7/02
WORK STAMPED BY	Universal	DATE	7/02
FIELD ACCEPTANCE BY	EPAC	DATE	9/02
DESIGNED BY	EPAC	DATE	9/02
DRAWN BY	701	DATE	9/02
CHECKED BY	701	DATE	9/02
MICRO-FILM INFORMATION			
RECORDED BY		DATE	
NO.			

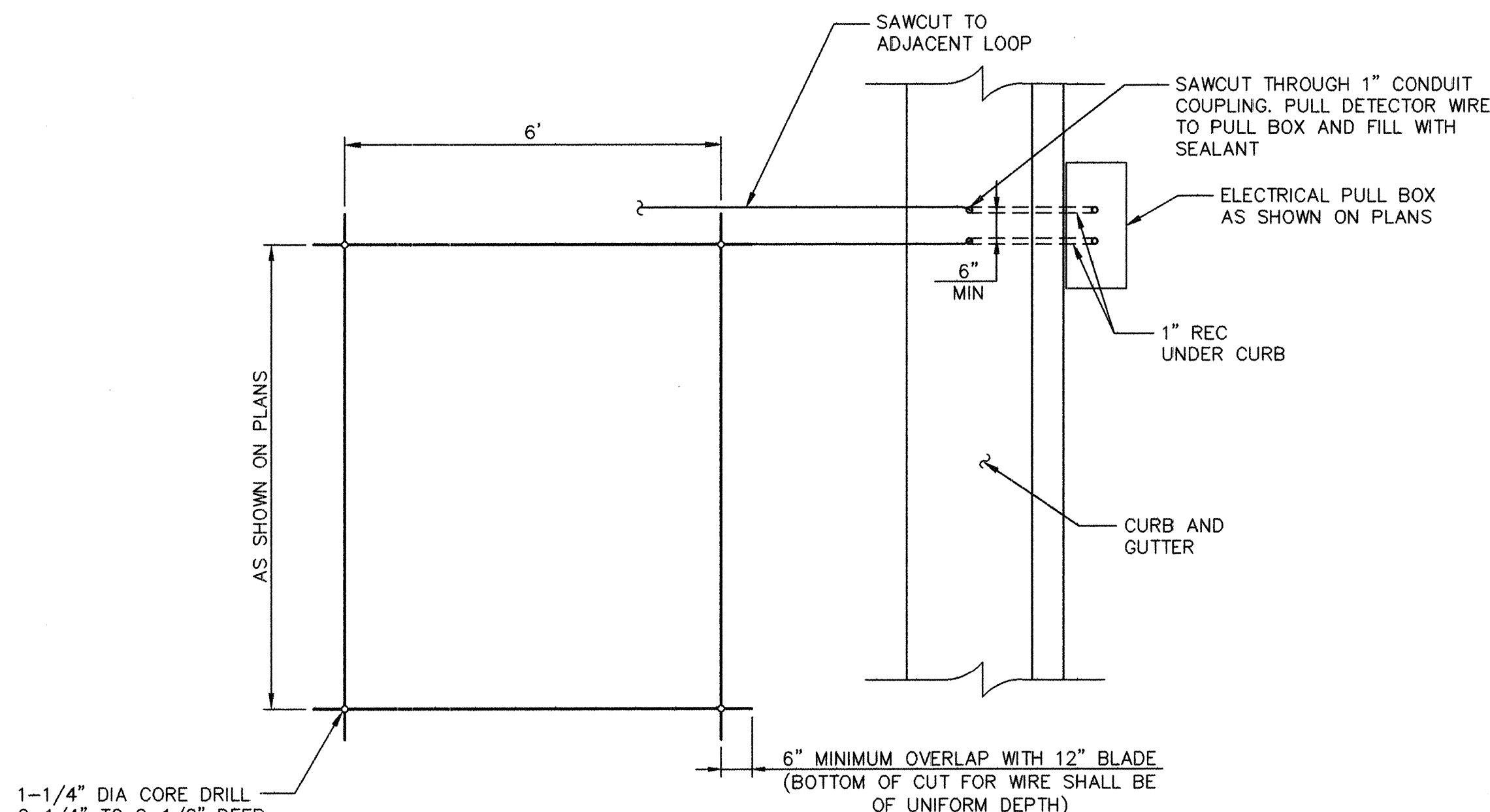
BENCH MARKS	
STANDARD ACS BRASS TABLET STAMPED "9-G21", DRILLED INTO THE TOP OF THE CONCRETE CURB ON THE EAST MEDIAN AT THE INTERSECTION OF COMANCHE RD NE AND EUBANK BLVD NE.	
NM STATE PLANE COORDINATES (NAD 1927)	
X=415515.66; Y=1500259.11	
G-G FACTOR: 0.9996434	
ELEVATION = 5536.00 FEET (SLD 1929)	

SURVEY INFORMATION	
FIELD NOTES	
1 SURV-TEK, INC.	2/99
1 ALS	12/01

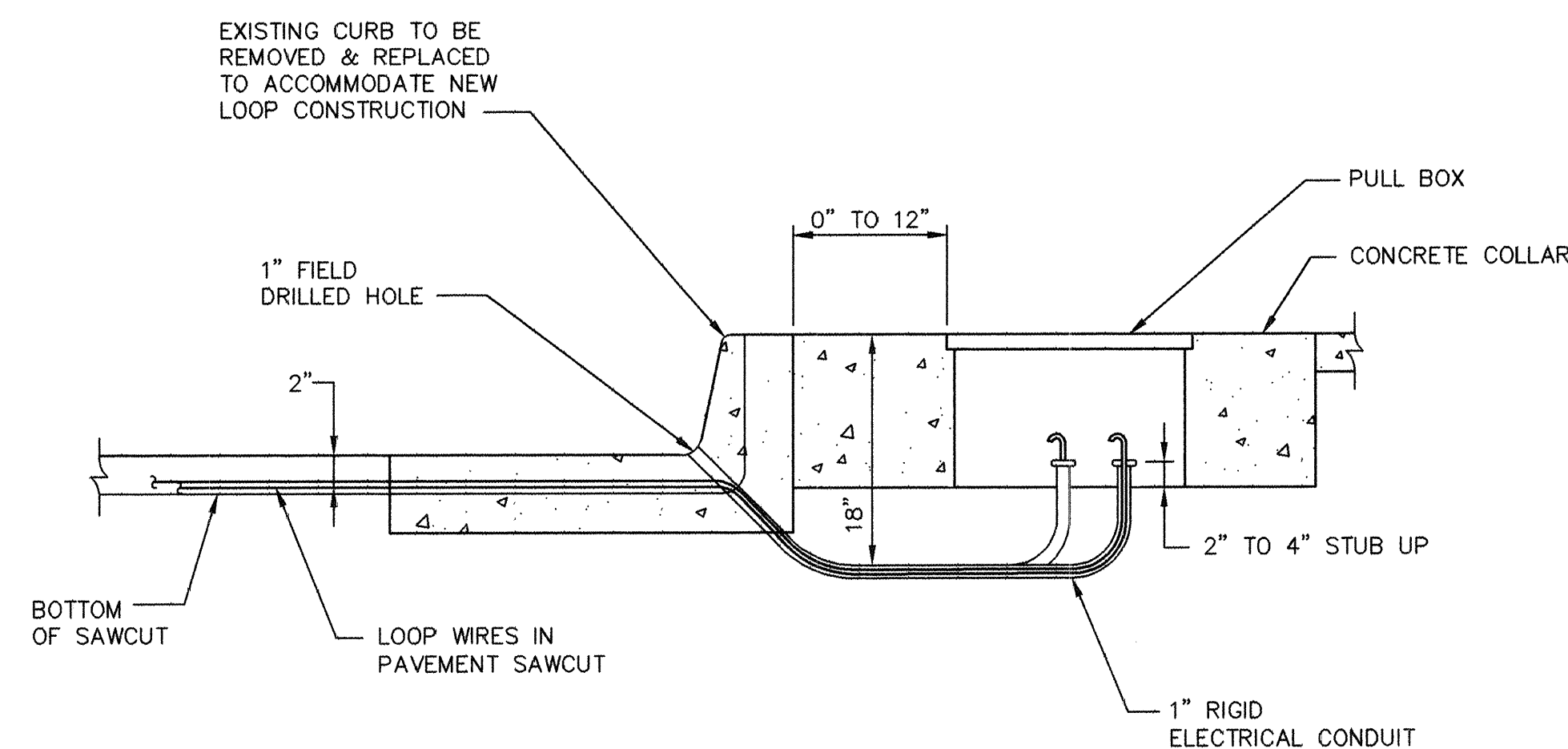
ENGINEER'S SEAL

REVISIONS	
NO.	DATE
1	01/02
2	01/02
3	01/02
4	01/02
5	01/02
6	01/02
7	01/02
8	01/02
9	01/02
10	01/02

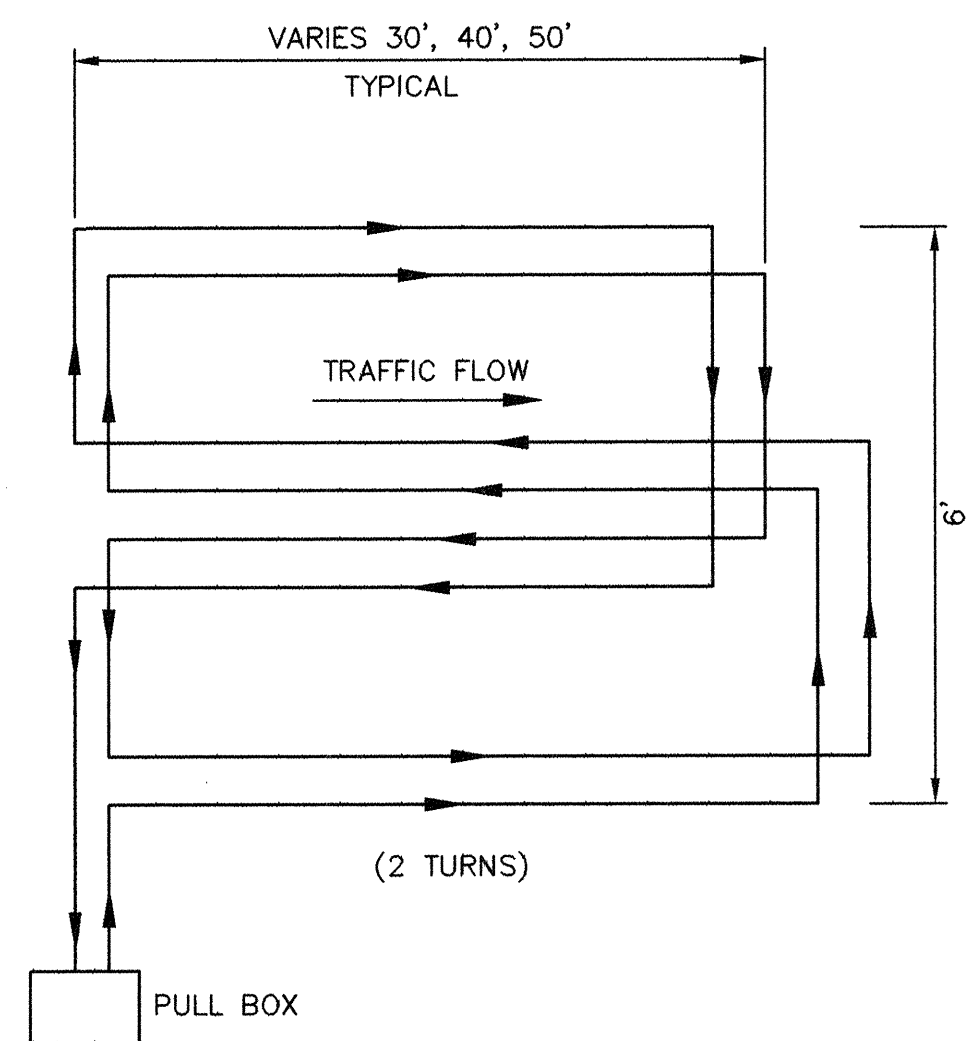
DESIGNED BY	TOI
DRAWN BY	RFH
CHECKED BY	TOI



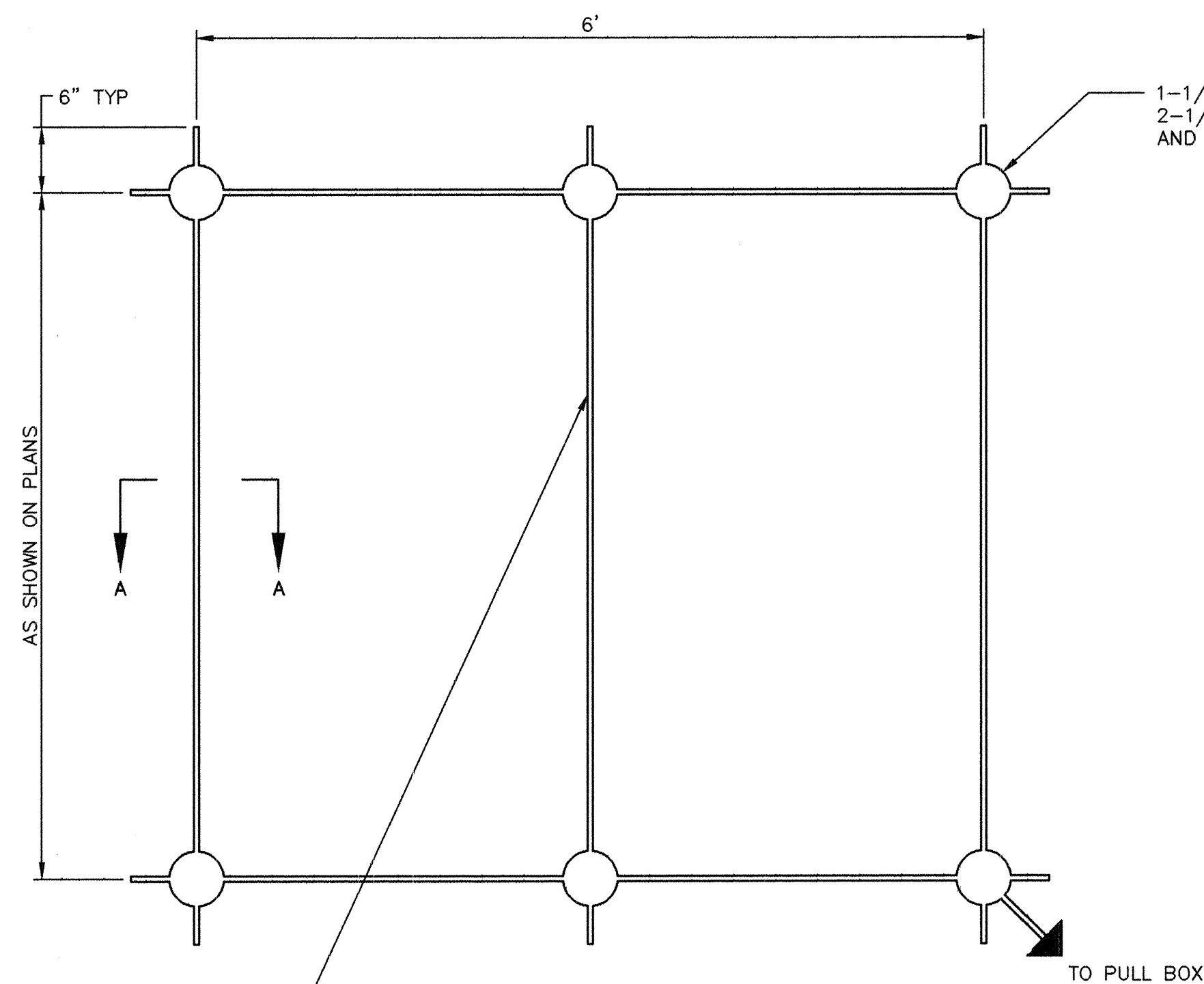
PLAN VIEW
SCALE: 1"=2'



SECTION
SCALE: 1"=1'

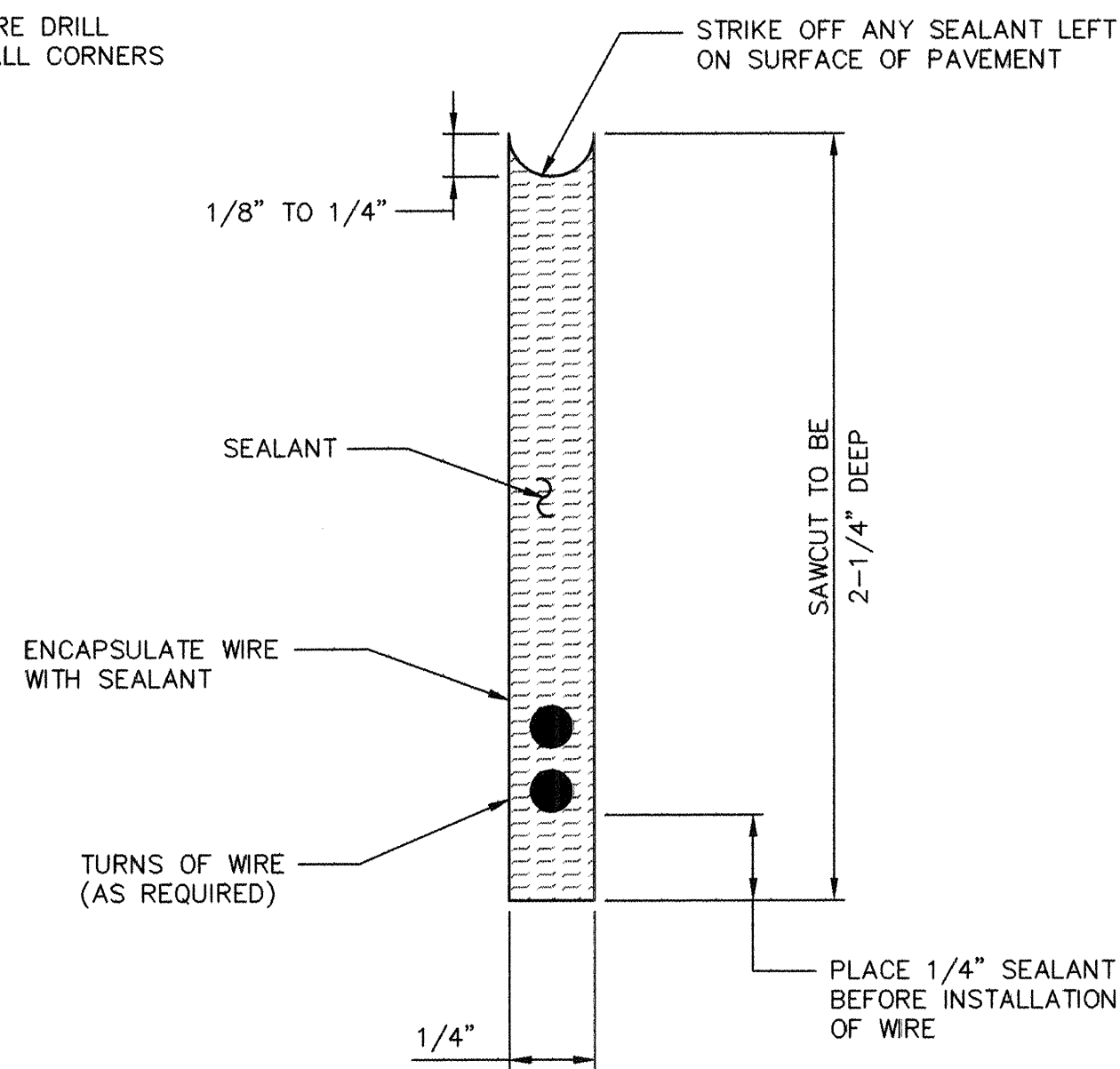


QUADRUPLE LOOP WIRING DETAIL
SCALE: 1"=2'

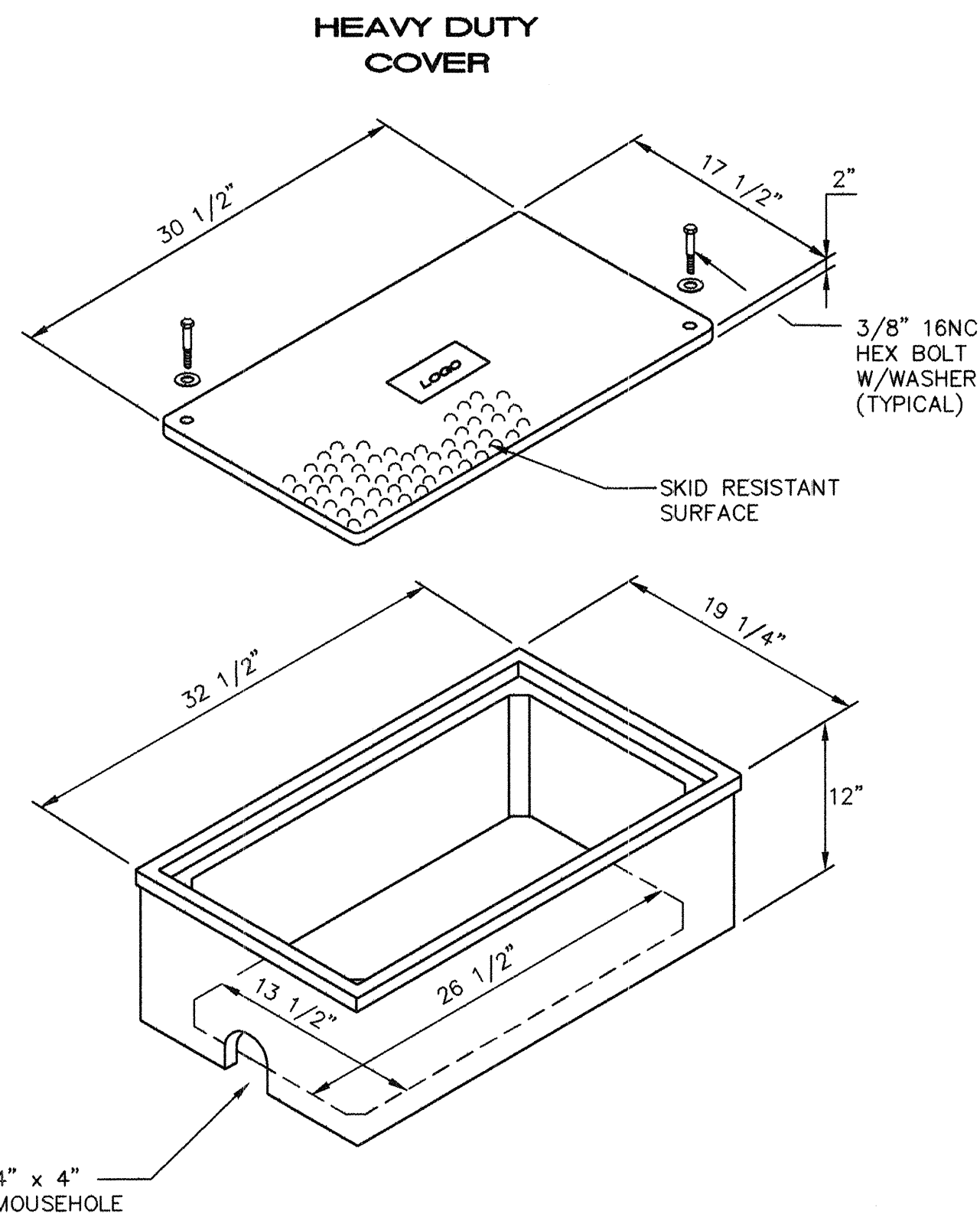


PLAN VIEW
SCALE: NONE

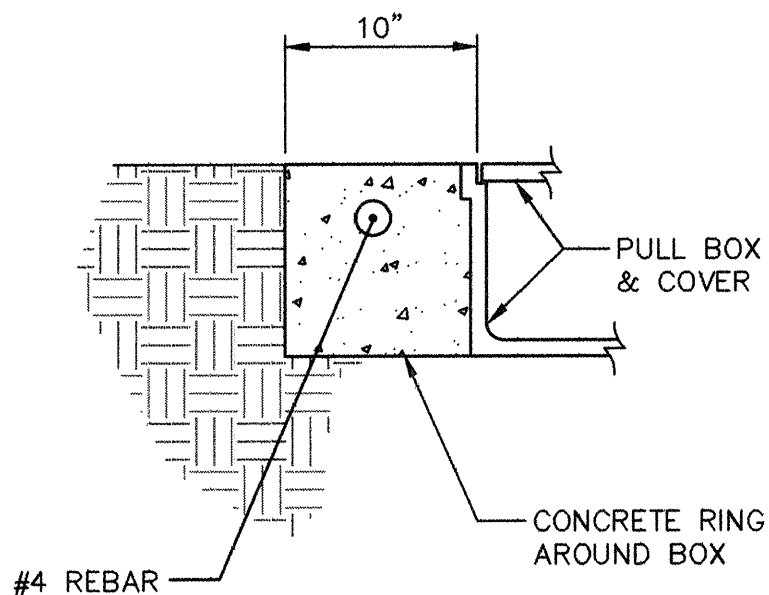
TYPICAL ROADWAY LOOP SAWCUT DETAIL



SECTION A - A
SCALE: 2:1



LARGE PULL BOX
SCALE: 1"=1'



CONCRETE COLLAR DETAIL
NOTE: THE CONCRETE COLLAR FOR THE PULL BOXES WILL BE CONSIDERED INCIDENTAL TO THE PULL BOX BID ITEMS.

LOOP DETECTOR NOTES

1. ALL LOOP DETECTOR WIRE SHALL BE #14 AGW STRANDED COPPER WIRE WITH CROSS LINKED POLYETHYLENE INSULATION (INDUSTRY TYPE XHHW) CONFORMING TO THE REQUIREMENTS OF IMSA SPECIFICATIONS #51-3 1984. BACKER ROD SHALL NOT BE USED IN THE INSTALLATION OF LOOP (EXCEPT PIECES LESS THAN 12" WHICH MAY BE PLACED OVER THE WIRE AT THE SAWCUT CORNERS TO HOLD THE WIRE). A 1/4" LAYER OF SEALANT SHALL BE PLACED IN THE SAWCUT BEFORE PLACEMENT OF THE WIRE AND THEN THE WIRE SHALL BE ENCAPSULATED WITH SEALANT. HOT-MELT RUBBERIZED ASPHALT LOOP DETECTOR SEALANT MANUFACTURED BY CRAFCO SHALL BE AN ACCEPTABLE SEALANT ALTERNATE.
2. ALL LOOP LEAD IN CABLES SHALL BE TAGGED AT CABINET TO IDENTIFY EACH CABLE BY LOOP AND PHASE NUMBER.
3. GROUND LOOP LEAD IN CABLE SHIELDING IN CONTROL CABINET.
4. SEPARATE 1" RIGID ELECTRICAL CONDUITS ARE REQUIRED FOR EACH PAIR OF DETECTOR WIRES.

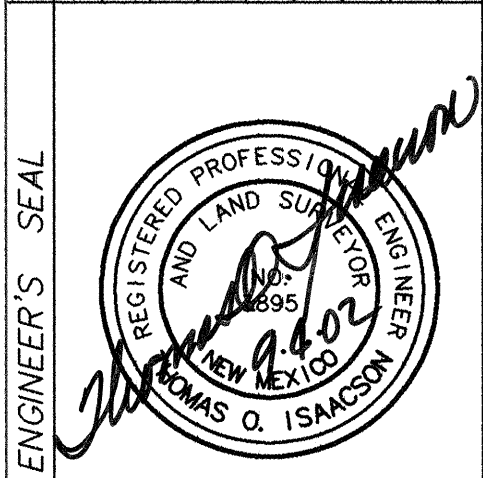
NOTES FOR HEAVY DUTY REINFORCED
POLYMER MORTAR PULL BOX AND COVERS

1. MATERIAL TO BE AGGREGATE CONSISTING OF SAND AND GRAVEL BOND TOGETHER WITH A POLYMER AND REINFORCED WITH CONTINUOUS WOVEN GLASS STRANDS. THE MATERIAL MUST HAVE THE FOLLOWING MECHANICAL PROPERTIES: COMPRESSIVE STRENGTH - 11,000 PSI, TENSILE STRENGTH - 1,700 PSI, FLEXURAL STRENGTH - 7,500 PSI.
2. ALL PULL BOX COVERS SHALL BE HEAVY DUTY REINFORCED POLYMER MORTAR, HAVING A SERVICE LOAD OF 22,568 LBS. OVER 10" SQUARE (225 PSI).
3. PULL BOX TYPE AND LOGO SHALL BE APPROVED BY THE PROJECT MANAGER.
4. THE DIMENSIONS OF THE PULL BOXES SHOWN NOMINAL DIMENSIONS AND MAY VARY AS TO THE MANUFACTURER'S RECOMMENDATIONS. ALL DIMENSIONS SHALL BE VERIFIED BY THE PROJECT MANAGER.

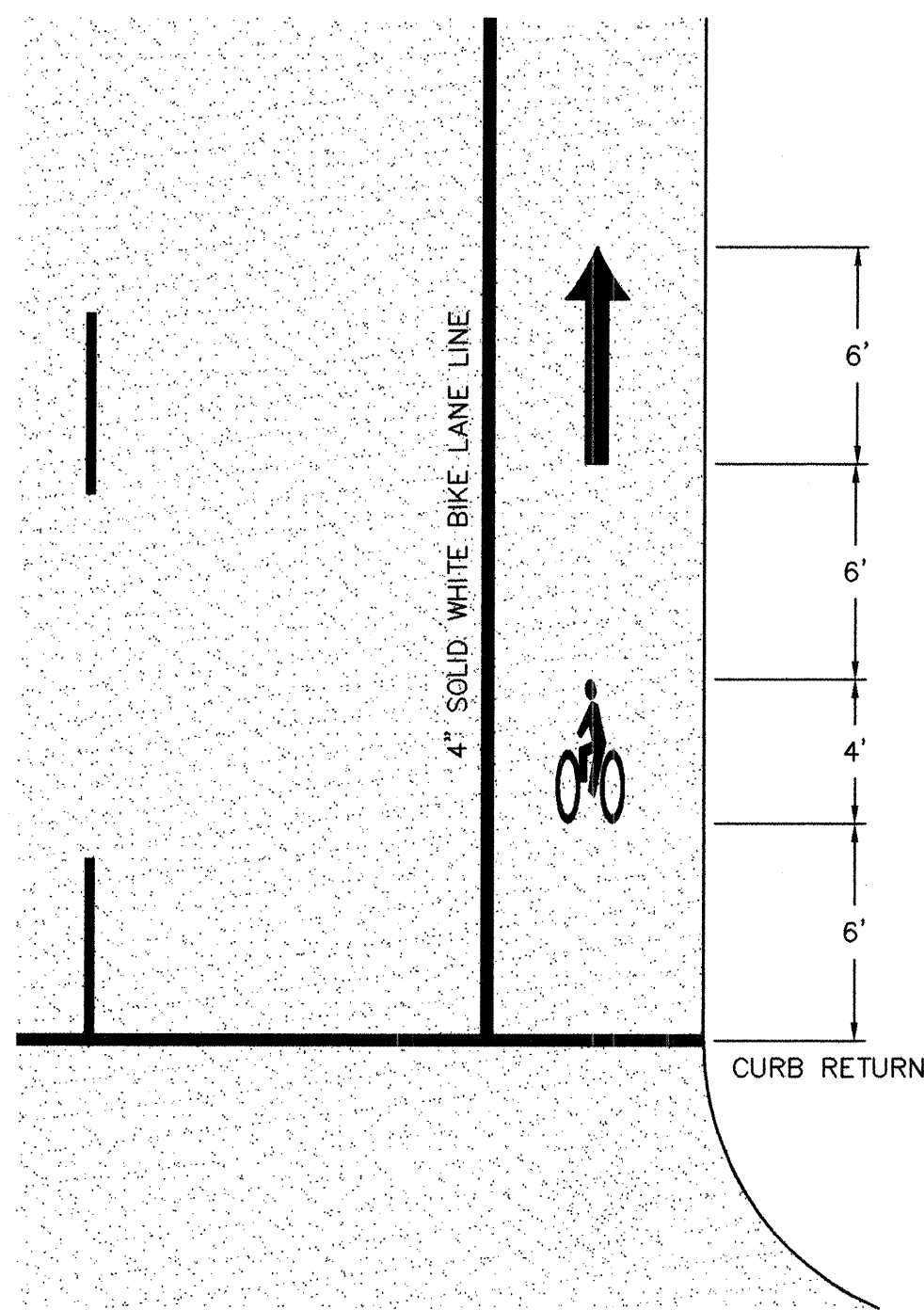
RECORD DRAWING

 ISAACSON & ARFMAN, P.A. Consulting Engineering Associates 128 Monroe Street N.E. Albuquerque, New Mexico 87102 0172MDTL3-PH2.DWG/rh 08/02/02		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: COMANCHE ROAD MEDIAN RECONSTRUCTION & LANDSCAPING LOOP DETECTOR & LARGE PULL BOX DETAILS			
Design Review Committee APPROVED DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED CITY ENGINEER	Mo./Day/Yr. Mo./Day/Yr.	
City Project No. 588293	Zone Map No. G22	Sheet 11	Of 22

SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
FIELD NOTES	2/99	STANDARD ACS BRASS TABLET STAMPED "9-G21", DRILLED INTO THE TOP OF THE CONCRETE CURB ON THE EAST MEDIAN AT THE INTERSECTION OF COMANCHE RD NE AND EUBANK BLVD NE.	CONTRACTOR Universal Constructors	WORK STARTED BY J. Wilson	DATE 7/03
1	1	ALS		FIELD ACCEPTANCE BY EPAR	DATE 9/03
				DRAWING BY EPAR	DATE 9/03
				CORRECTED BY 7701	DATE 9/03
				MICRO-FILM INFORMATION	
				RECORDED BY	DATE
				NO.	



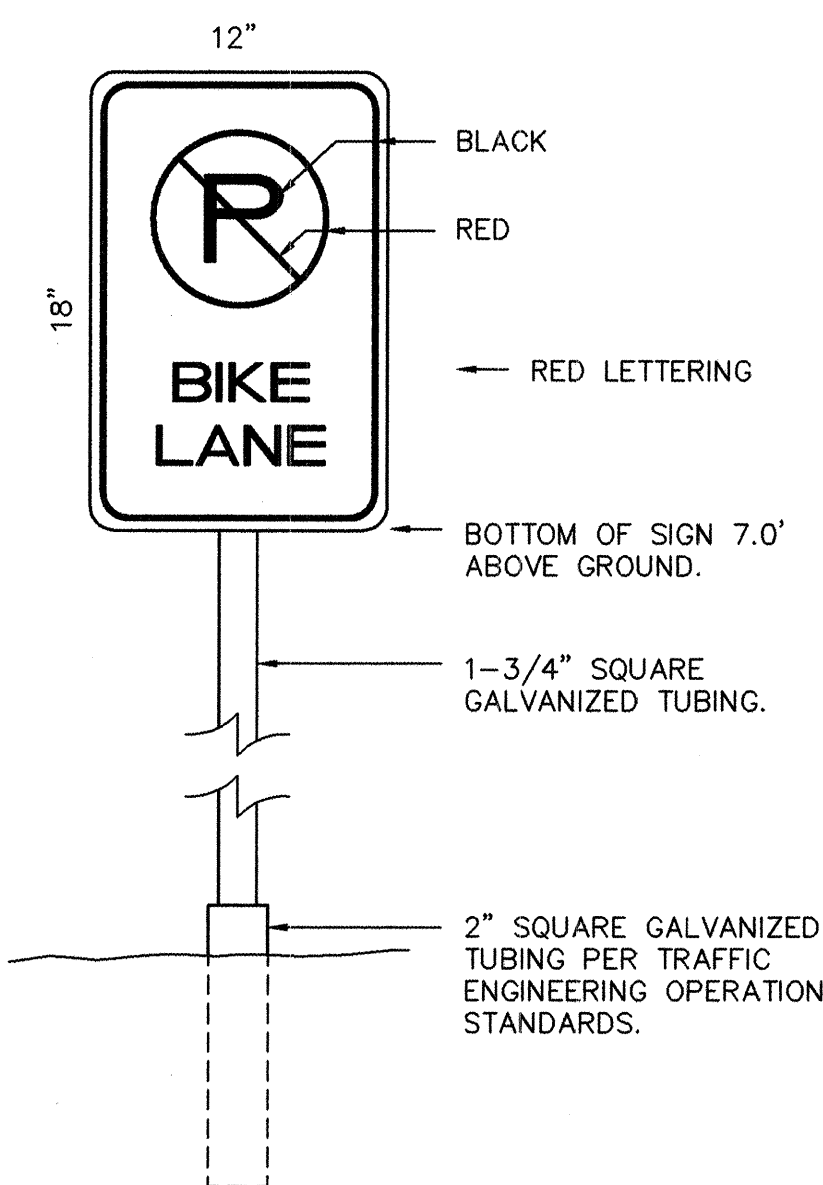
REVISIONS		DESIGN	
NO.	DATE	DESIGNED BY	CHECKED BY
		TOI	RFH
		DATE 01/02	DATE 01/02
		DATE 01/02	DATE 01/02



NOTE: MARKINGS PER MUTCD

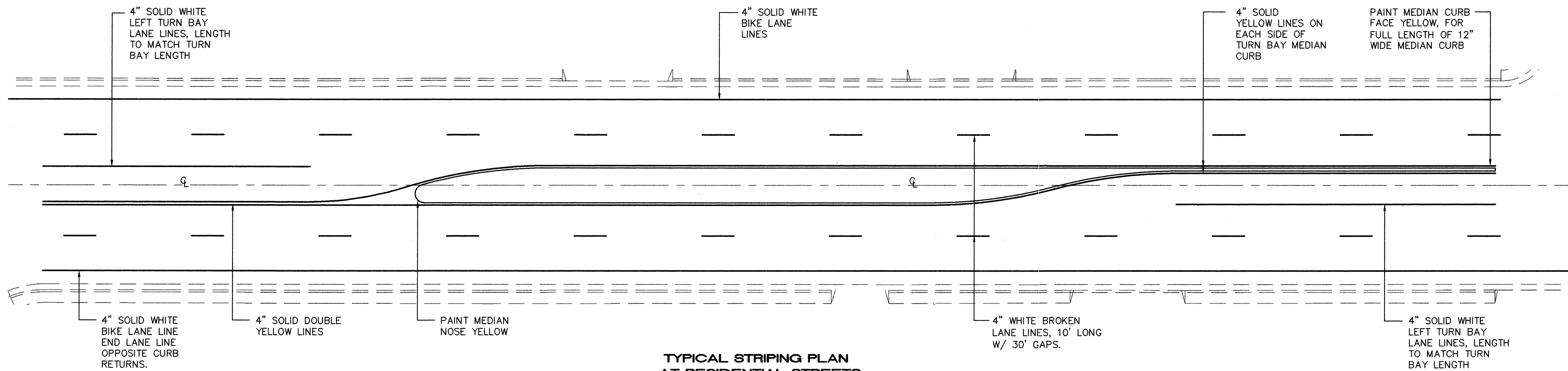
BIKE LANE MARKINGS

SCALE: 1"=5'



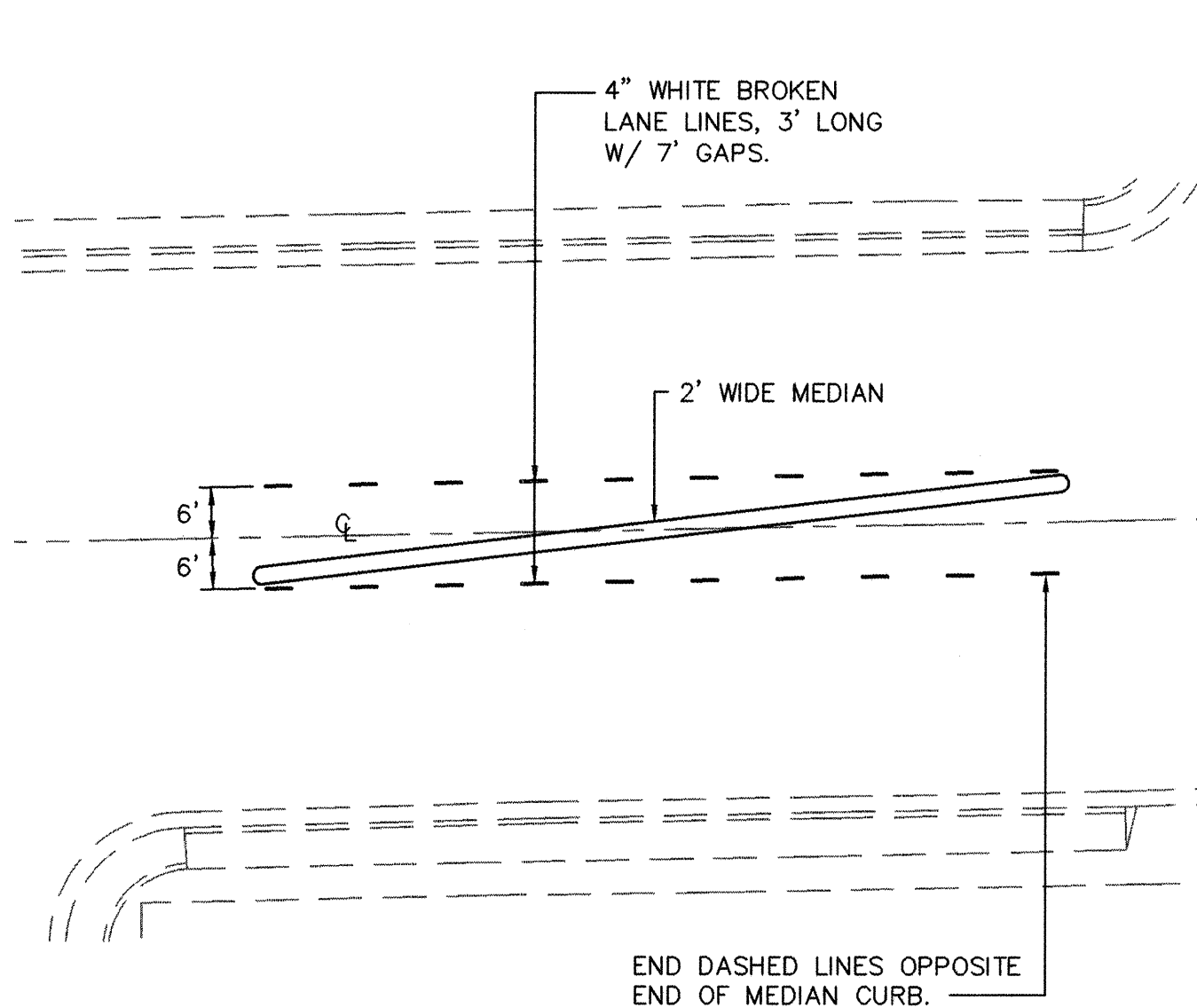
BIKE LANE SIGN AND POST

NO SCALE



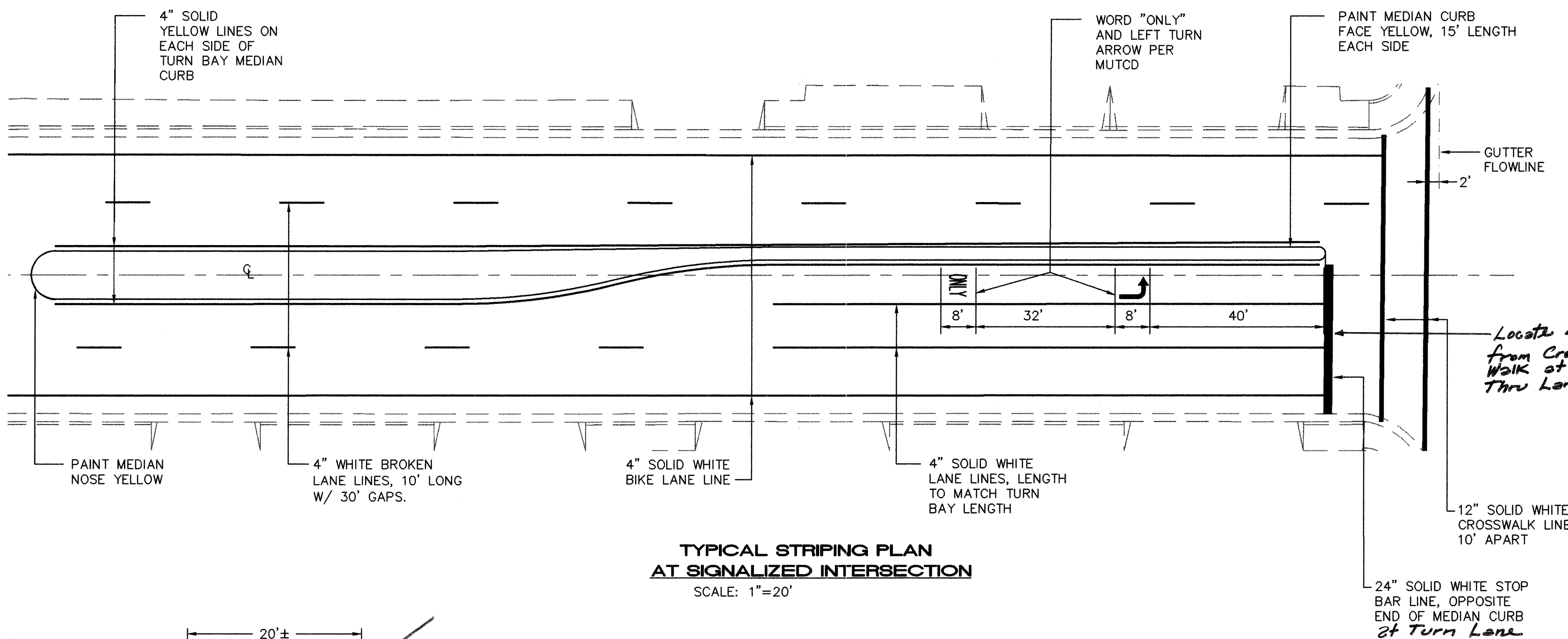
TYPICAL STRIPING PLAN AT RESIDENTIAL STREETS

SCALE: 1"=20'



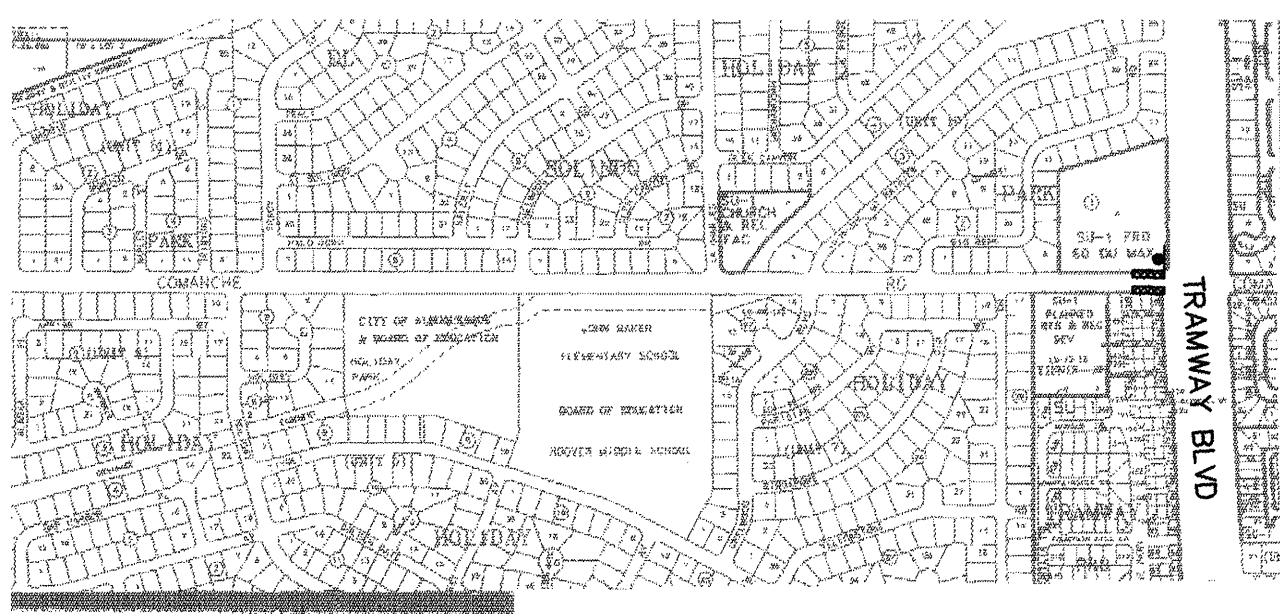
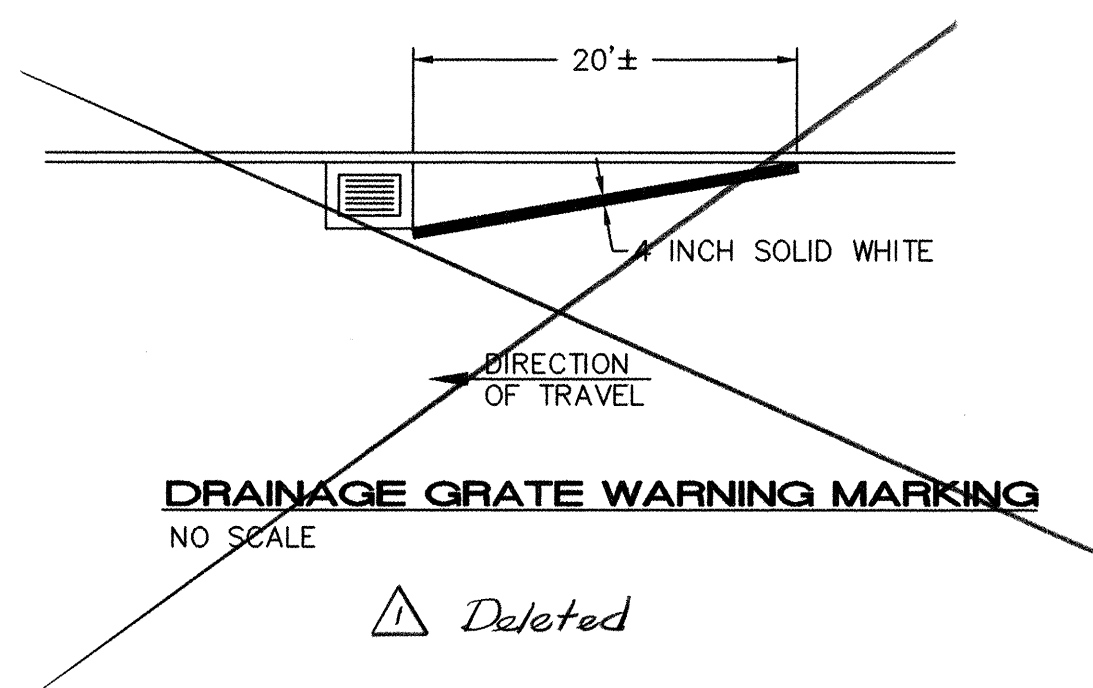
TYPICAL STRIPING AT TAPERED MEDIANS

SCALE: 1"=20'



TYPICAL STRIPING PLAN AT SIGNALIZED INTERSECTION

SCALE: 1"=20'



BIKE LANE SIGNS & MARKINGS LOCATION MAP

NO SCALE

LEGEND

- BIKE LANE SIGN
- BIKE LANE MARKINGS

TRAFFIC SIGN REMOVALS AND INSTALLATION:

ALL EXISTING TRAFFIC SIGNS AND POSTS LOCATED IN MEDIANS SHALL BE REMOVED AND DELIVERED TO TRAFFIC ENGINEERING OPERATION AT PINO YARDS. NEW SIGNS AND POSTS SHALL BE INSTALLED AT LOCATIONS DETERMINED IN THE FIELD BY TRAFFIC ENGINEERING OPERATION PER THEIR INSTALLATION STANDARDS. PAYMENT FOR NEW SIGNS SHALL INCLUDE COORDINATION WITH TRAFFIC ENGINEERING OPERATION.

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08/23/02

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PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

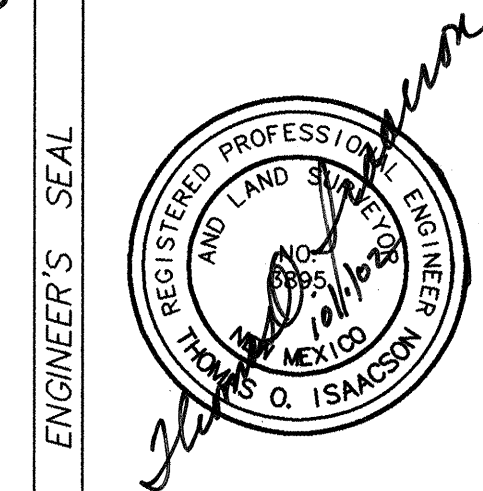
TITLE: **COMANCHE ROAD MEDIAN RECONSTRUCTION & LANDSCAPING**
TYPICAL TRAFFIC STRIPING & MARKING PLANS

Design-Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED DESIGN REVIEW COMMITTEE	APPROVED CITY ENGINEER		
City Project No. 588293	Zone Map No. G22	Sheet 12 Of 22	

AS-BUILT INFORMATION	
CONTRACTOR	Universal Contractors
WORK STARTED BY	Universal
DATE	7/03
FIELD ACCEPTANCE BY	STAR
DATE	9/03
DRAWINGS CORRECTED BY	STAR
DATE	9/03
MICRO-FILM INFORMATION	
RECORDED BY	
DATE	

BENCH MARKS	
STANDARD ACS BRASS TABLET STAMPED "9-G21", DRILLED INTO THE TOP OF THE CONCRETE CURB ON THE EAST MEDIAN AT THE INTERSECTION OF COMANCHE RD NE AND EUBANK BLVD NE.	
NM STATE PLANE COORDINATES (NAD 1927)	
X=415515.66, Y=1500259.11	
O-G FACTOR: 0.99996434	
ELEVATION = 5536.00 FEET (SLD 1929)	

SURVEY INFORMATION	
FIELD NOTES	
1 SURV-TEK, INC.	2/99
1 ALS	12/01



ENGINEER'S SEAL	
7/01	7/03
RECORD DRAWINGS	
NO.	DATE
REVISIONS	BY
DESIGN	DATE
TOI	01/02
RFH	01/02
TOI	01/02

RECORD DRAWING

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 SEPERATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.
3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.
4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.
5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.
6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.
8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.
9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.
10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.
11. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.
12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.
13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.
15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.
16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.
17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.
18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
19. 48 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.
20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.
21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

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

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

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

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

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" 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.

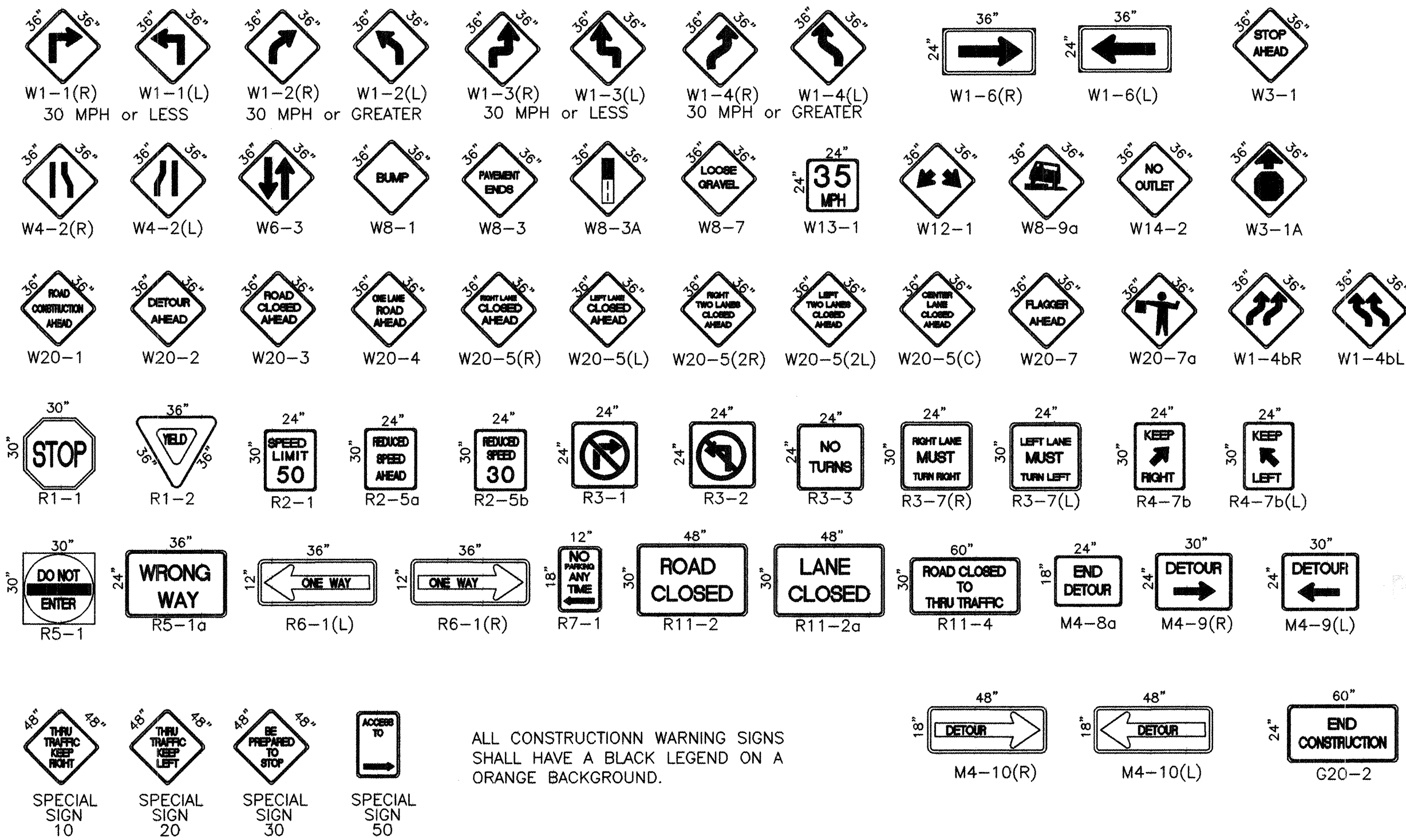
27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.

SPECIAL PROJECT TRAFFIC CONTROL NOTES

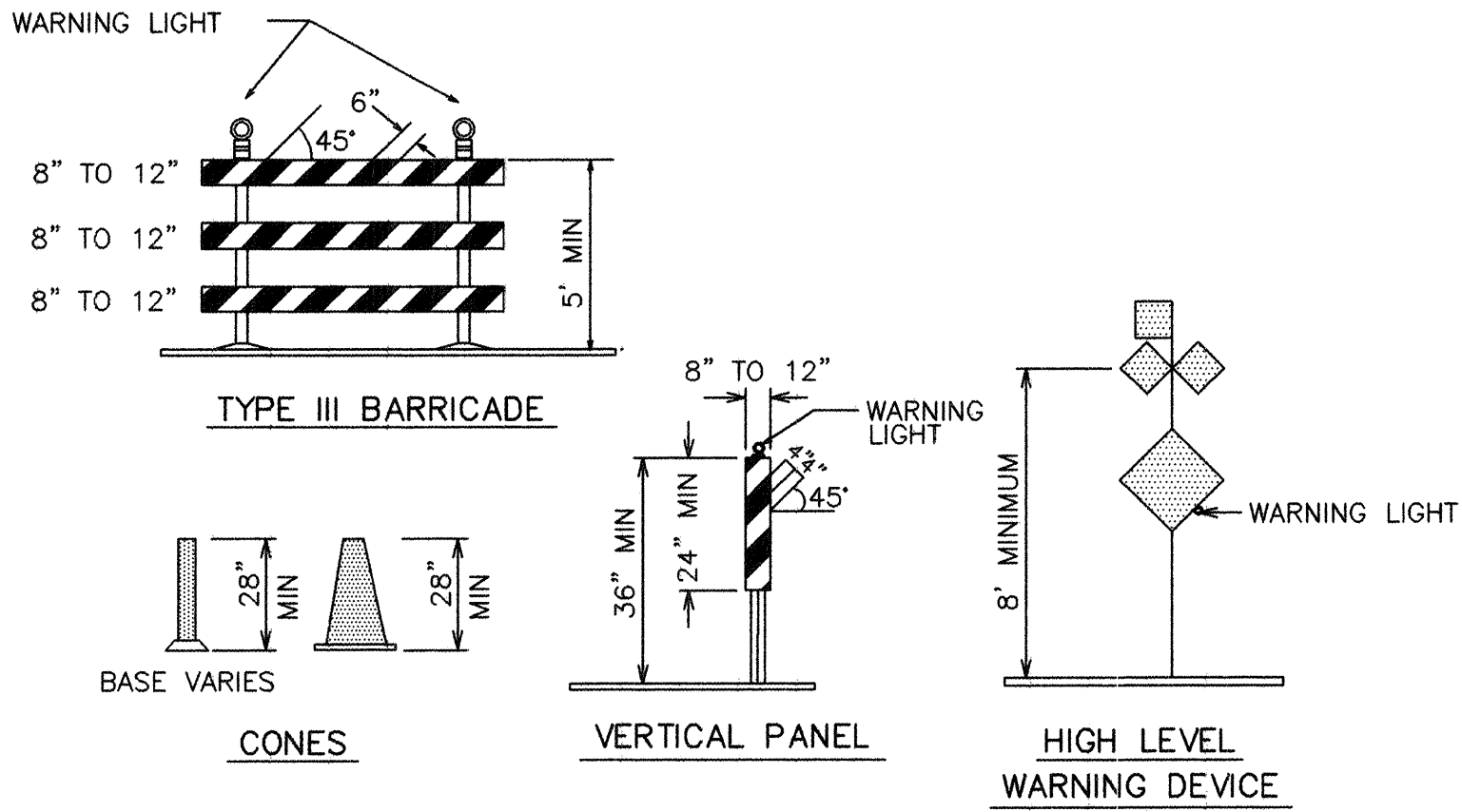
1. CONTRACTOR MUST MAINTAIN A MINIMUM OF ONE LANE IN EACH DIRECTION ON COMANCHE ROAD AT ALL TIMES. NO TRAFFIC SPILTS SHALL BE ALLOWED.
2. CONTRACTOR MUST ATTEMPT TO MAINTAIN TWO LANES OPEN TO TRAFFIC ON WESTBOUND COMANCHE ROAD BETWEEN THE HOURS FROM 6:00 A.M. TO 9:00 A.M., MONDAY THROUGH FRIDAY; AND MUST ATTEMPT TO MAINTAIN TWO LANES OPEN ON EASTBOUND COMANCHE ROAD BETWEEN THE HOURS FROM 4:00 P.M. TO 7:00 P.M., MONDAY THROUGH FRIDAY. IF THE CONTRACTOR IS NOT ABLE TO MAINTAIN TWO LANES OPEN DURING THESE TIMEFRAMES, THE CONTRACTOR MUST WORK A MINIMUM OF TWELVE HOUR DAYS (7:00 A.M. TO 7:00 P.M.), MONDAY THROUGH SATURDAYS.
3. CONTRACTOR MUST REMOVE ALL BARRICADES AND OPEN ALL AVAILABLE LANES TO TRAFFIC UPON COMPLETION OF EACH WORK SHIFT.



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 REQUIREMENT

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

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

SPEED LIMIT (MPH)	MILES PER HOUR	MINIMUM DISTANCE IN FEET BETWEEN SIGNS		FROM LAST SIGN TO TAPER
		0-20	25-30	30-35
10	10	10 X SPEED LIMIT	10 X SPEED LIMIT	10 X SPEED LIMIT
15	15	10 X SPEED LIMIT	10 X SPEED LIMIT	10 X SPEED LIMIT
20	20	10 X SPEED LIMIT	10 X SPEED LIMIT	10 X SPEED LIMIT
25	25	10 X SPEED LIMIT	10 X SPEED LIMIT	10 X SPEED LIMIT
30	30	10 X SPEED LIMIT	10 X SPEED LIMIT	10 X SPEED LIMIT
35	35	10 X SPEED LIMIT	10 X SPEED LIMIT	10 X SPEED LIMIT
40	40	10 X SPEED LIMIT	10 X SPEED LIMIT	10 X SPEED LIMIT
45	45	10 X SPEED LIMIT	10 X SPEED LIMIT	10 X SPEED LIMIT
50	50	10 X SPEED LIMIT	10 X SPEED LIMIT	10 X SPEED LIMIT
55	55	10 X SPEED LIMIT	10 X SPEED LIMIT	10 X SPEED LIMIT

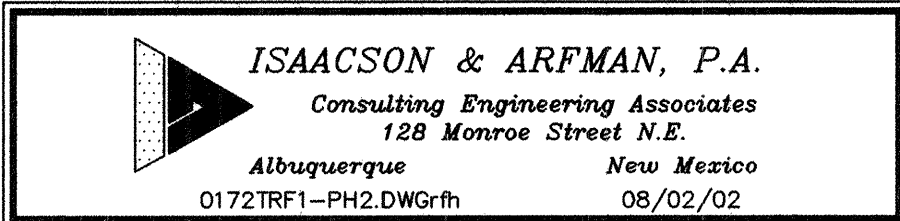
TAPER CRITERIA

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

TAPER LENGTH COMPUTATION

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

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



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **COMANCHE ROAD
MEDIAN RECONSTRUCTION & LANDSCAPING
TRAFFIC CONTROL NOTES & STANDARDS**

Design Review Committee City Engineer Approval

**COA STD
DRAWING**

City Project No. **588293**

Zone Map No. **G22**

Sheet **13** Of **22**

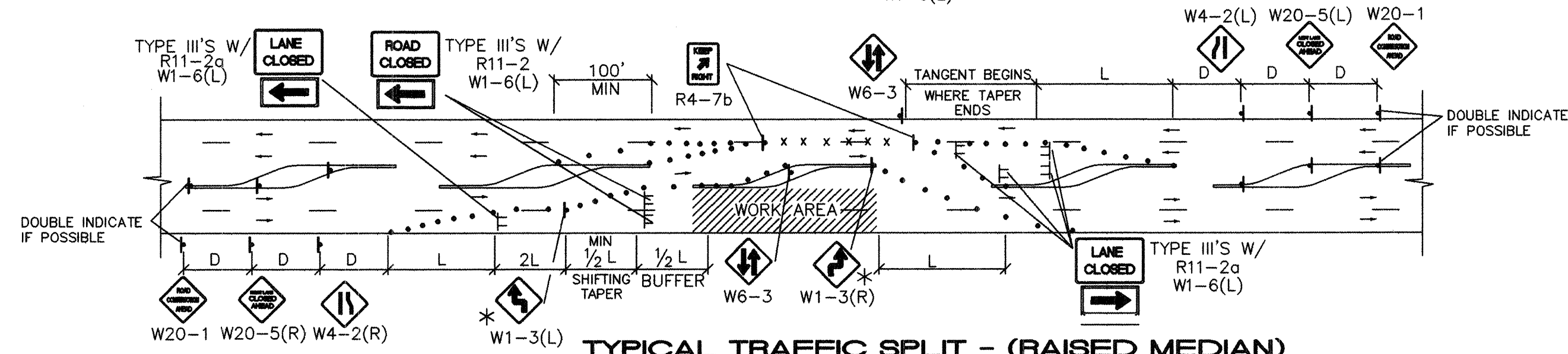
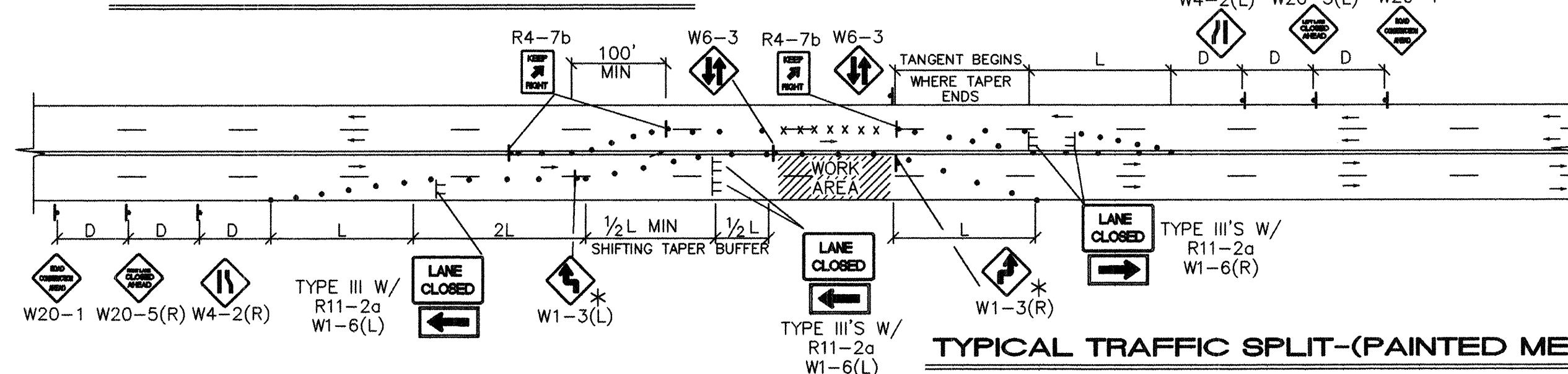
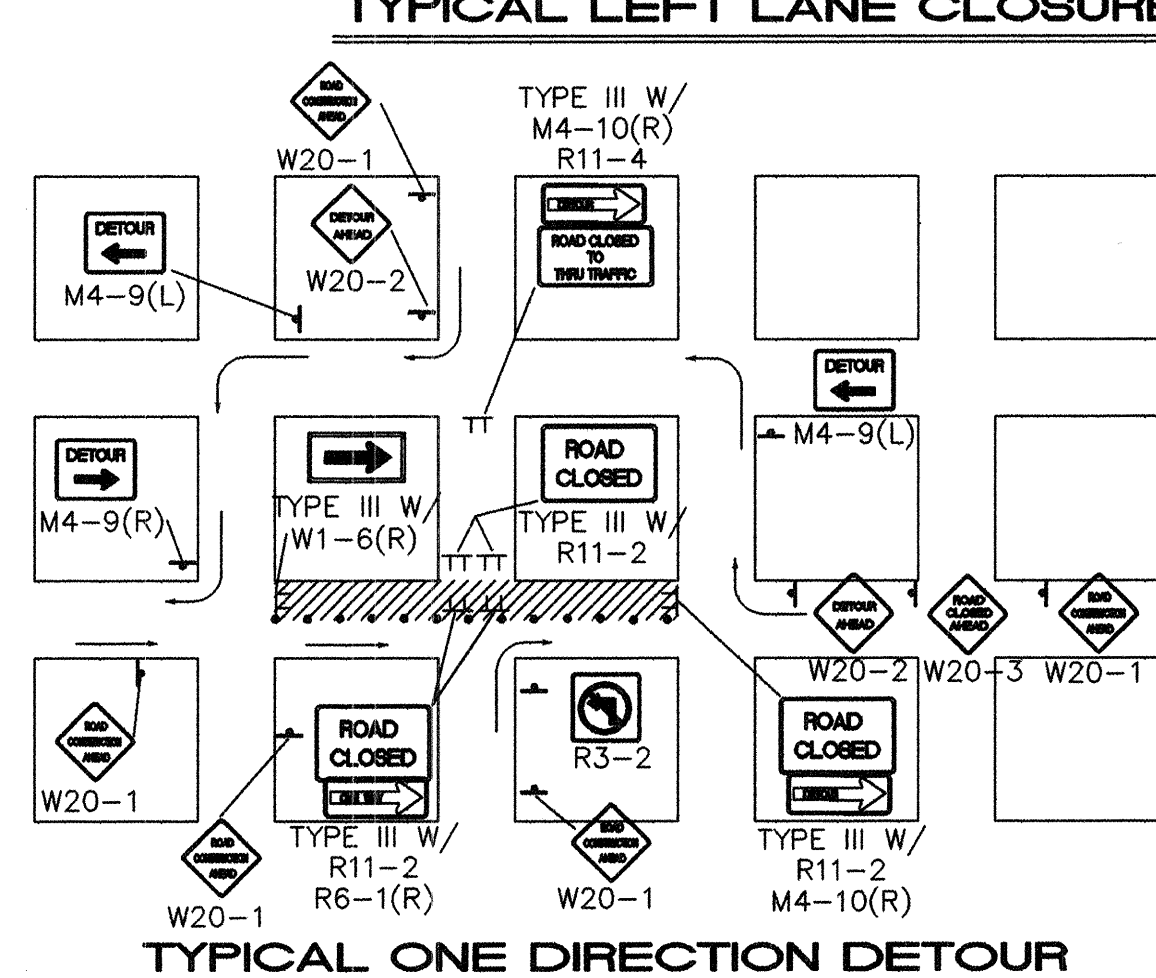
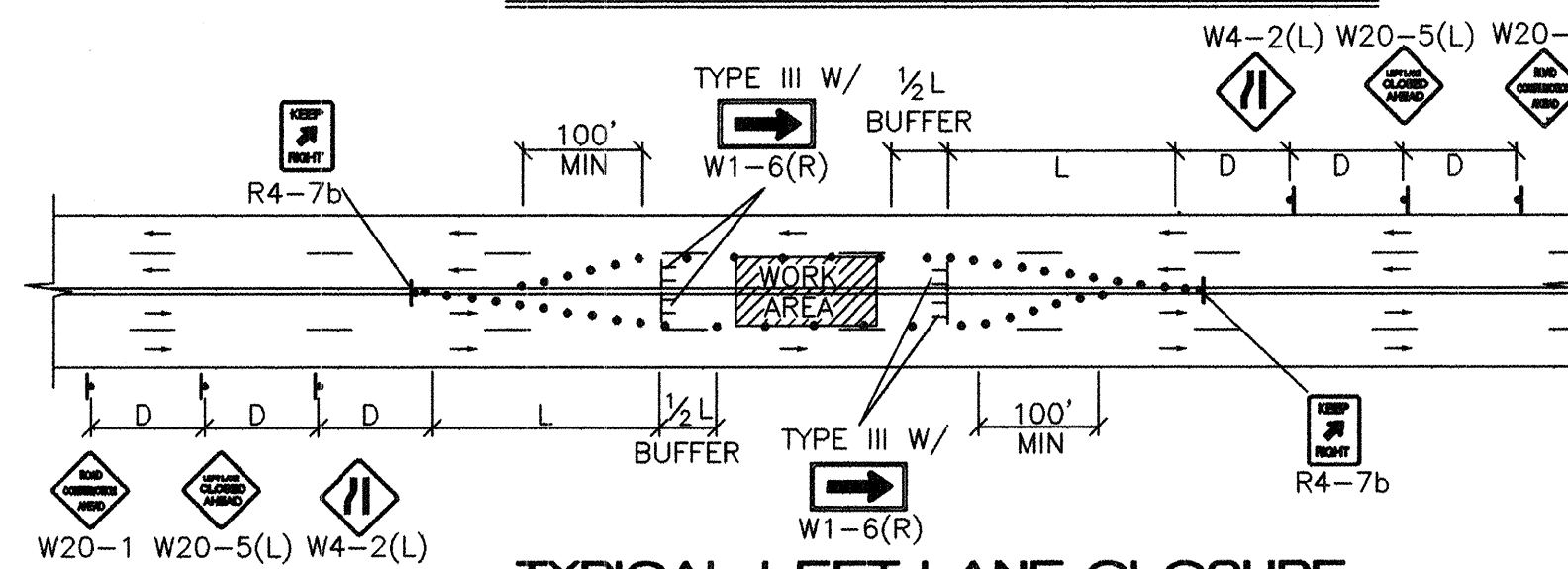
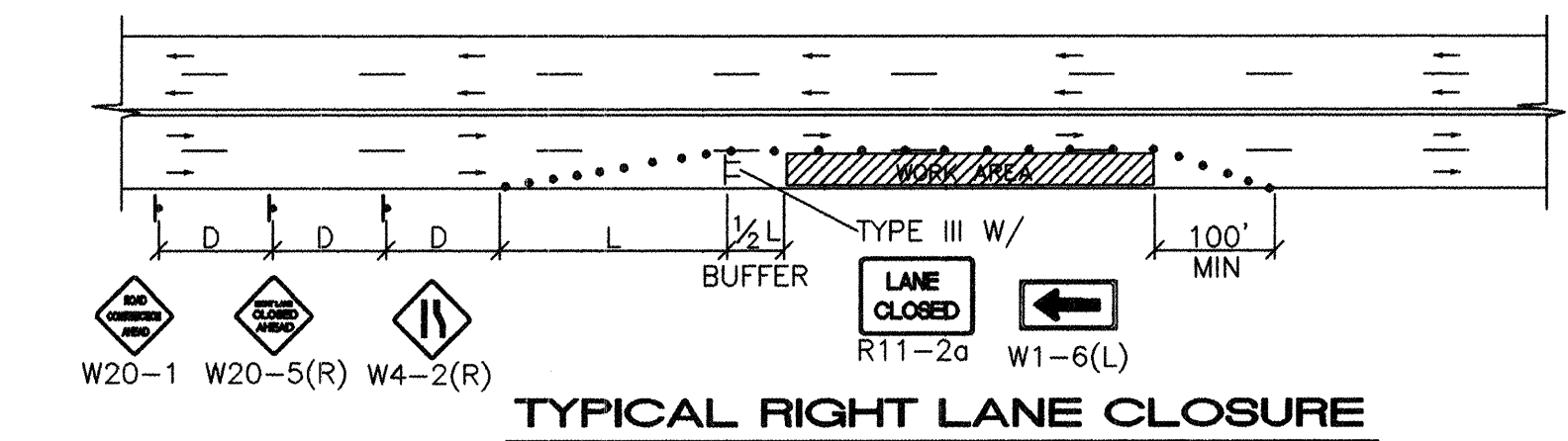
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CONTRACTOR	
WORK STARTED BY	
FIELD ACCEPTANCE BY	
FIELD ADJUSTMENT BY	
DRAWINGS CORRECTED BY	
MICRO-FILM INFORMATION	
RECORDED BY	
NO.	

BENCH MARKS	
STANDARD ACS BRASS TABLE STAMPED "9-021", DRILLED INTO THE TOP OF THE CONCRETE CURB ON THE EAST MEDIAN AT THE INTERSECTION OF COMANCHE RD NE AND EUBANK BLVD NE.	
NM STATE PLANE COORDINATES (NAD 1927)	
X=4151515.66, Y=1500259.11 G-G FACTOR: 0.9996434	
ELEVATION = 5536.00 FEET (SLD 1929)	

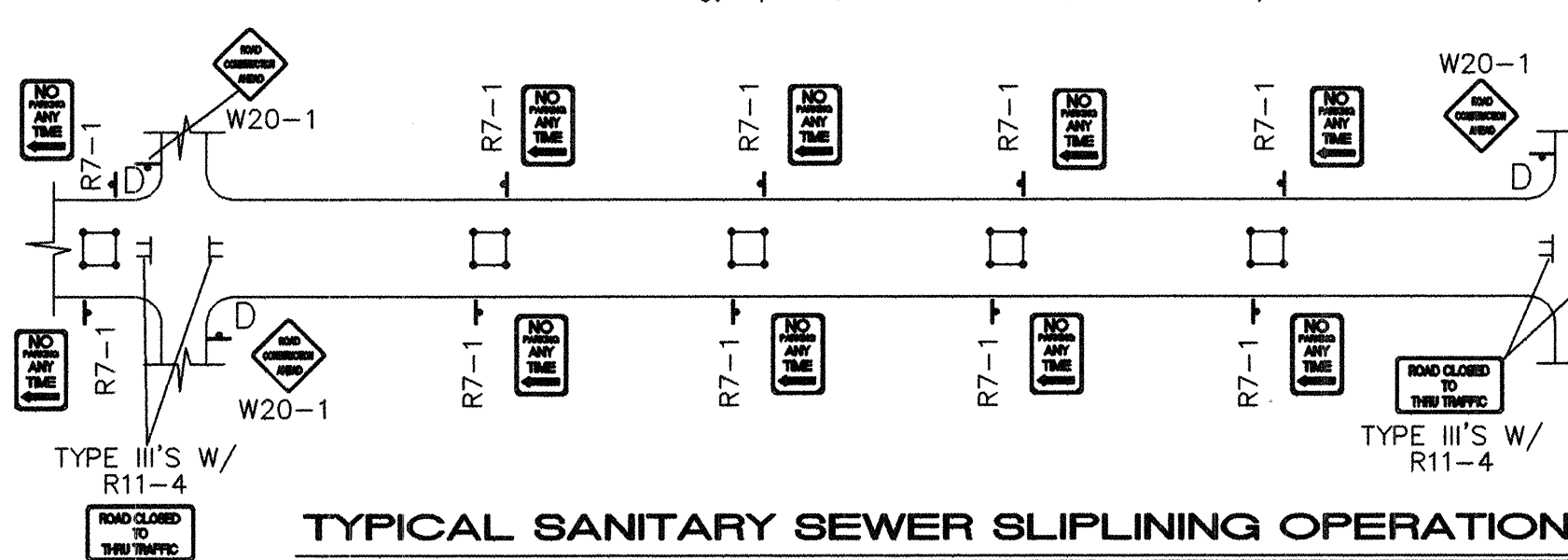
SURVEY INFORMATION	
FIELD NOTES	
1 SURV-TEK, INC.	2/99
1 ALS	12/01

CITY STANDARD DRAWING

ENGINEER'S SEAL	
NO.	DATE
REVISIONS	
DESIGN	
DATE 01/02	
DRAWN BY KSH	
CHECKED BY TOI	
DATE 01/02	



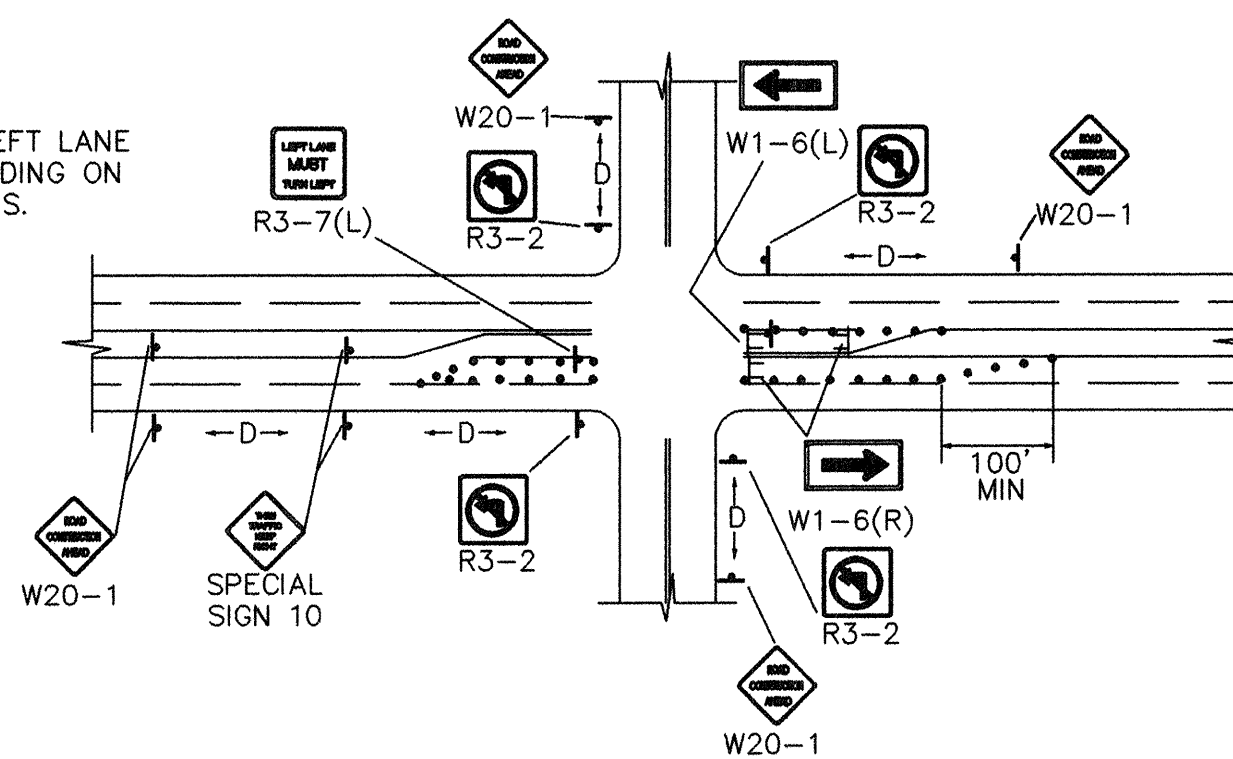
- TRAFFIC SPLIT NOTES:**
1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
 2. 1/2 L IS THE MINIMUM DISTANCE FOR SHIFTING TAPERS.
 3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
 4. MEDIAN REMOVAL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



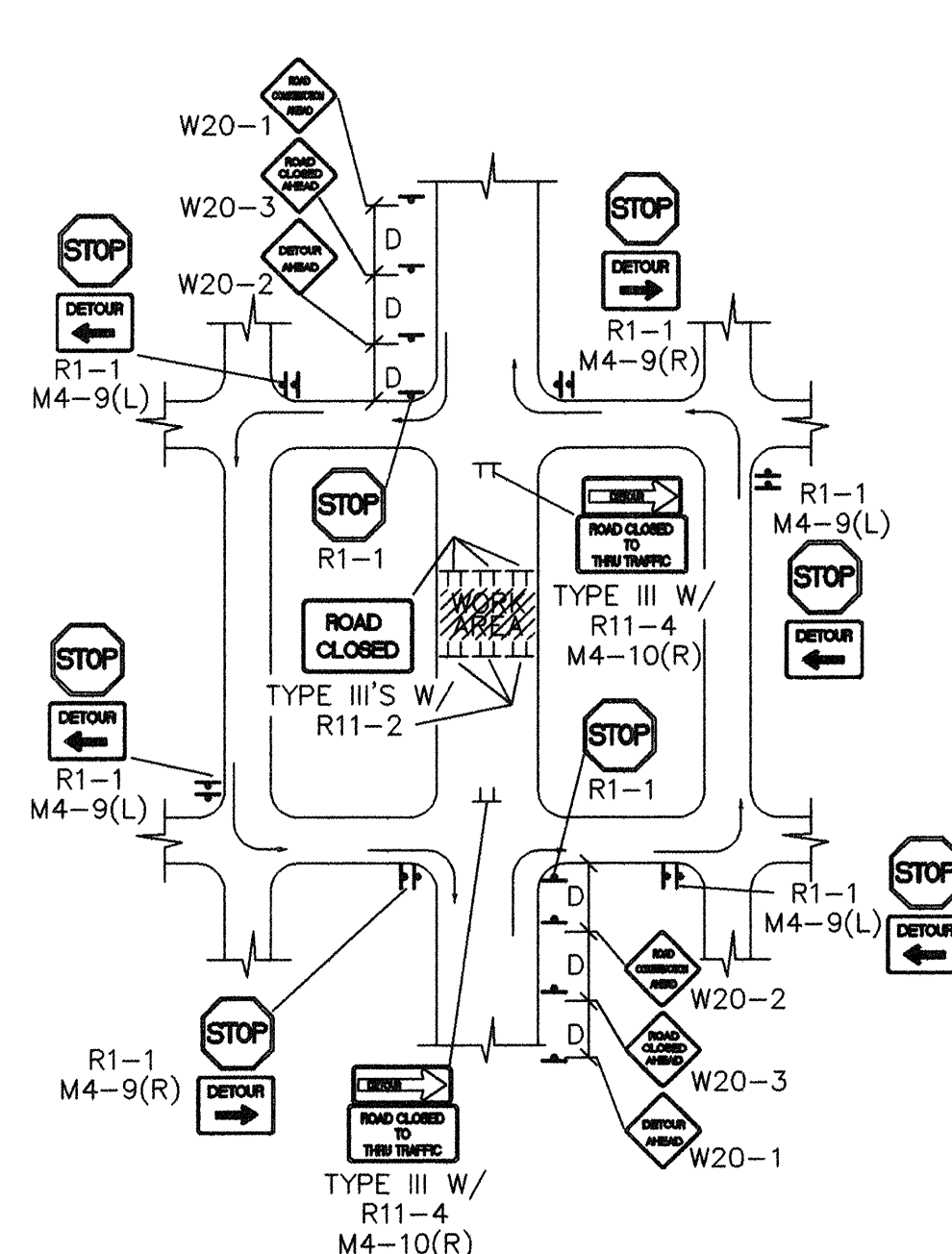
- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS
- ALL PITS TO HAVE FLAGLINE

- GENERAL NOTE:**
- ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON AN 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.

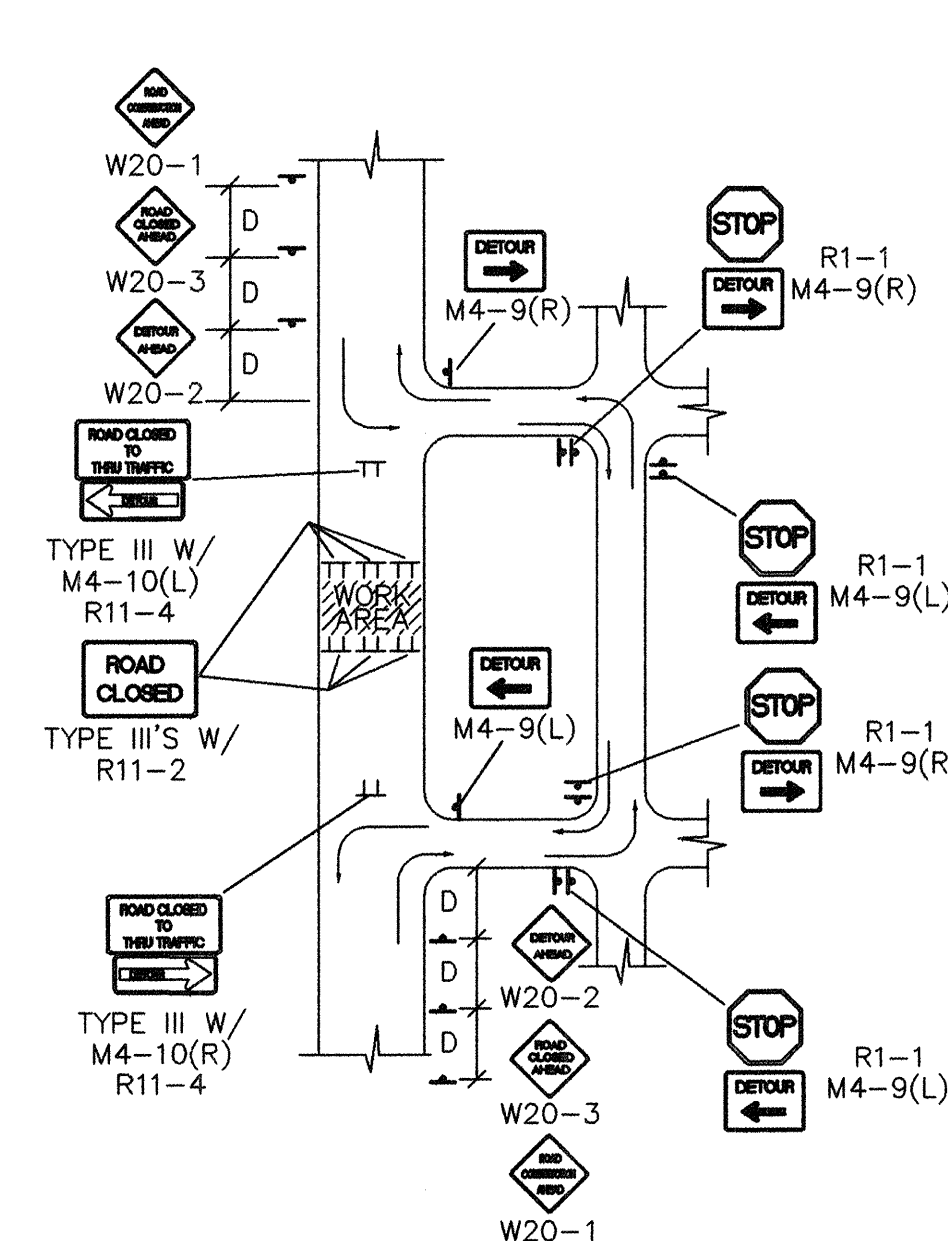
NOTE:
MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.



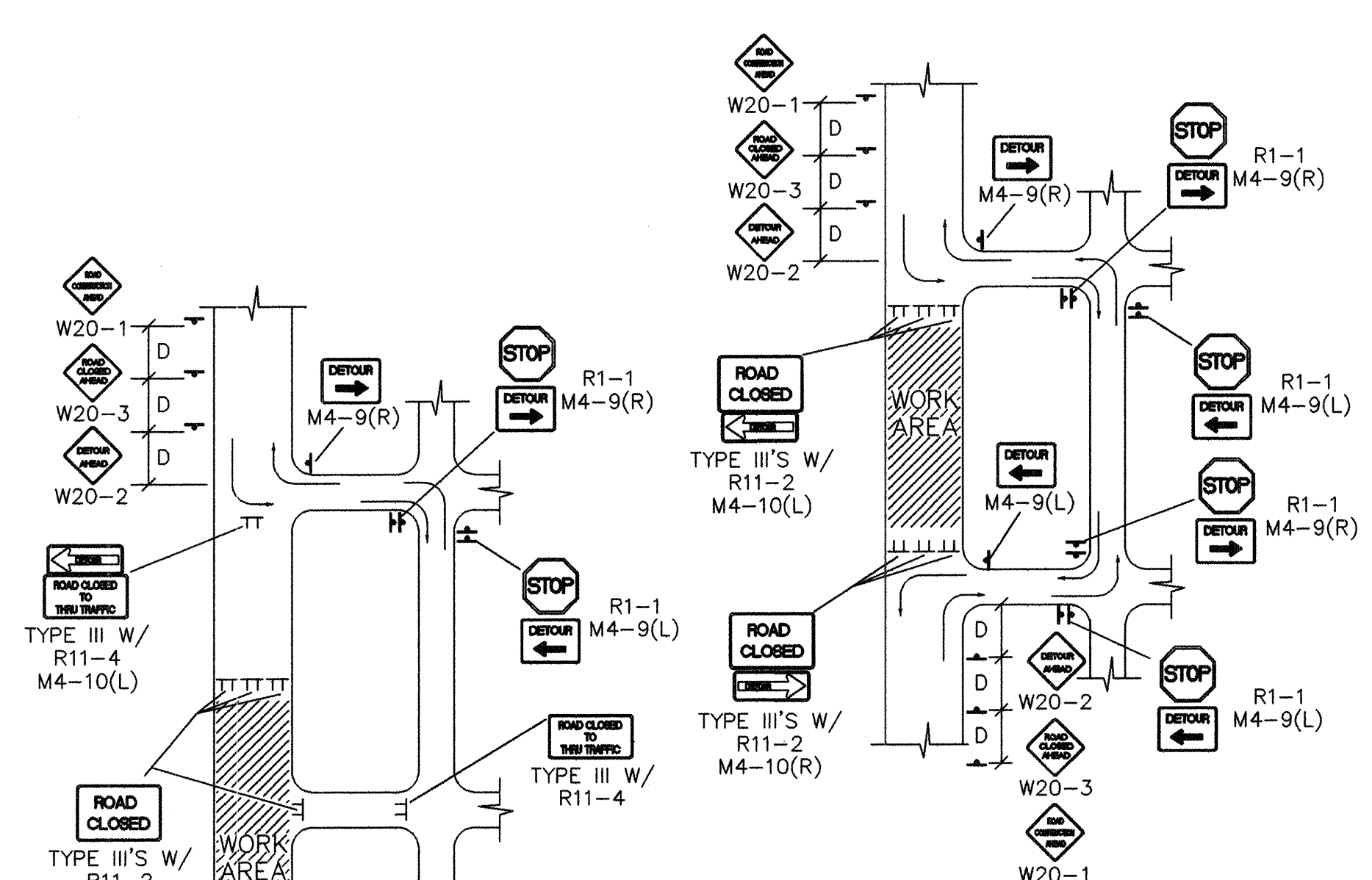
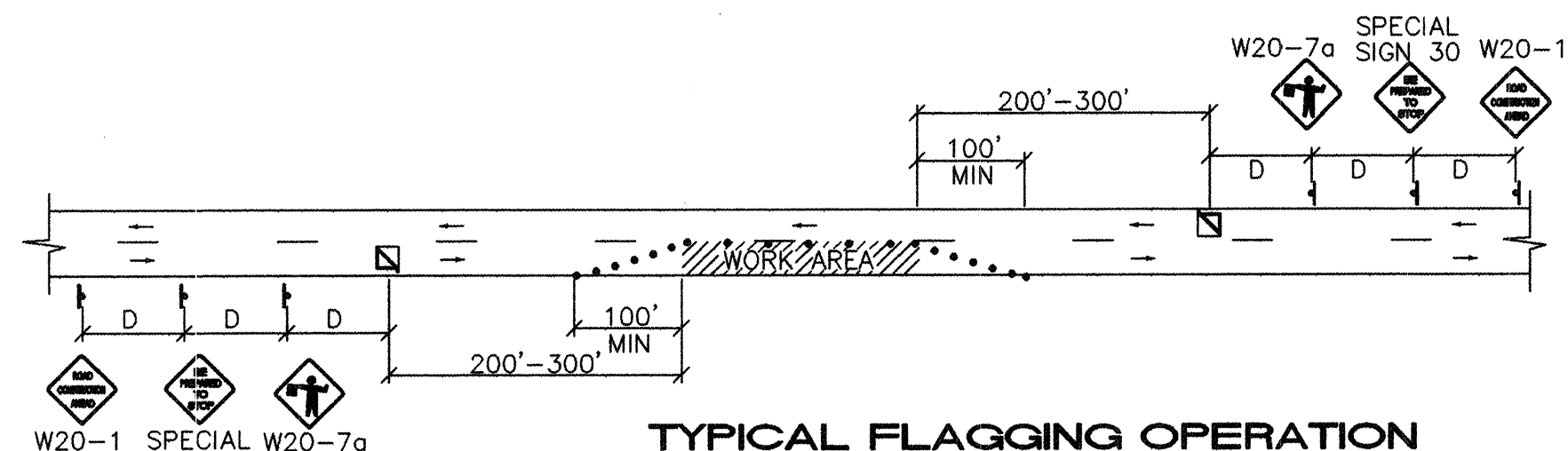
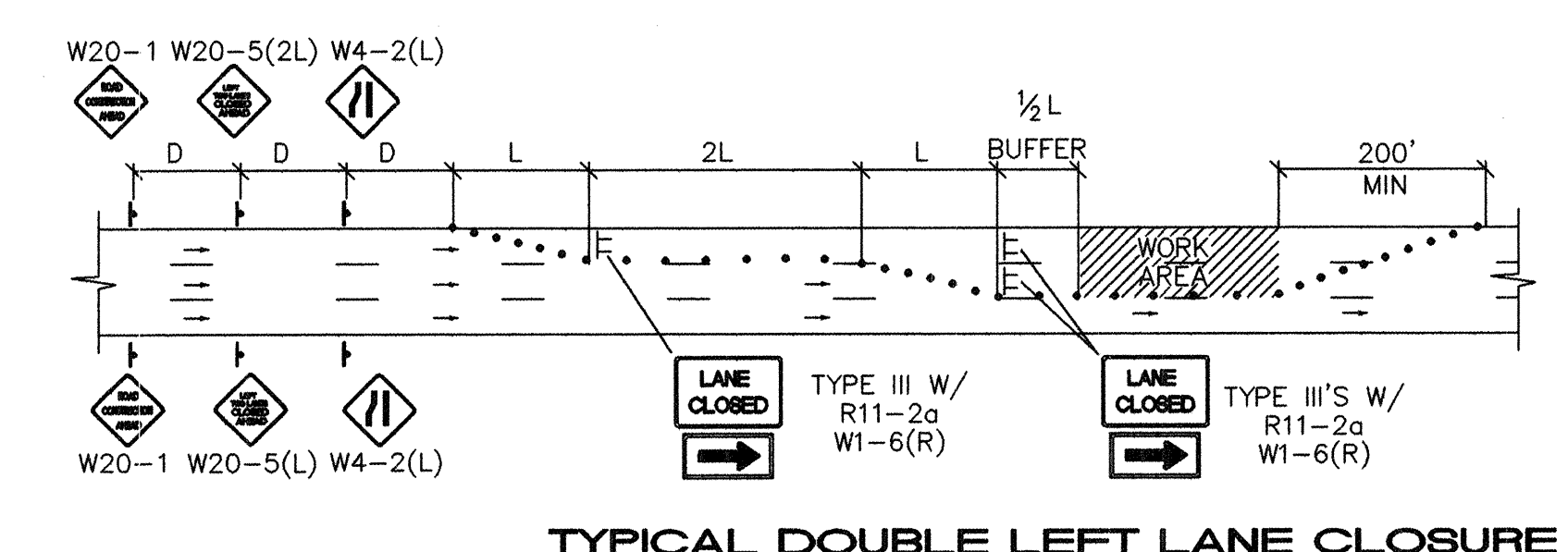
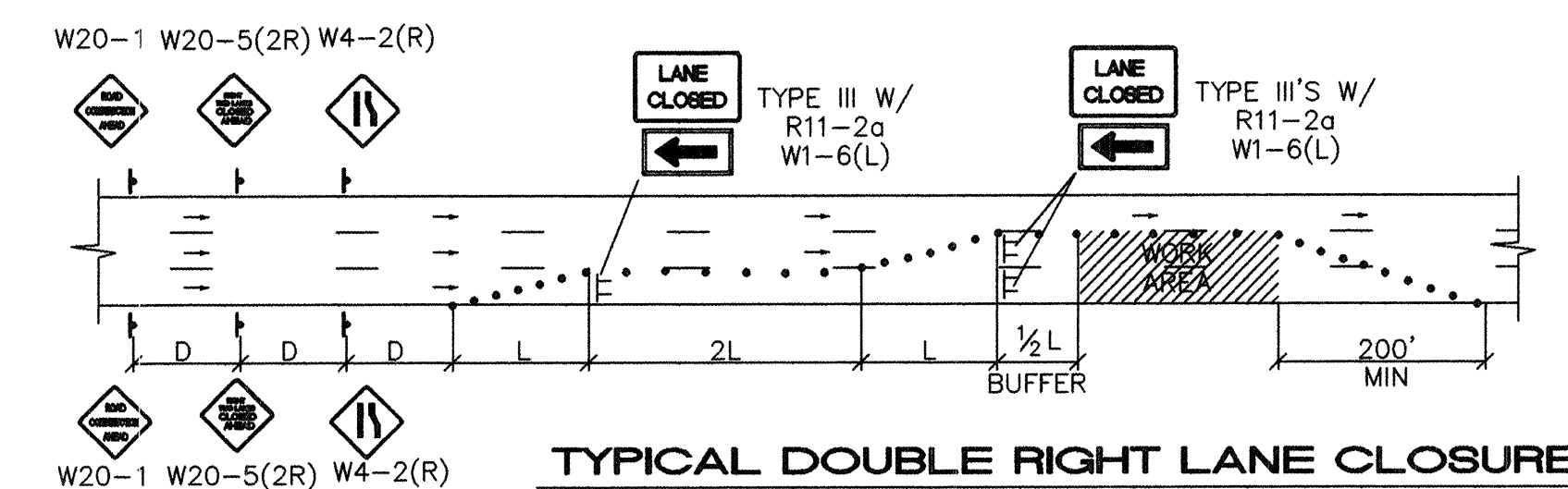
NOTE: DEPENDING ON WORK ZONE LOCATION.



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



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



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

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico 87102
0172TRF2-PH2.DWG
08/02/02

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

**TITLE: MEDIAN RECONSTRUCTION & LANDSCAPING
TYPICAL TRAFFIC CONTROL & STREET CLOSURE PLAN**

Design Review Committee City Engineer Approval

COA STD DRAWING

City Project No. 588293 Zone Map No. G22 Sheet 14 Of 22

AS-BUILT INFORMATION	
CONTRACTOR	
WORK STARTED BY	
DATE	
FIELD ACCEPTANCE BY	
DATE	
DESIGNED BY	
DATE	
CHECKED BY	
DATE	
RECORDED BY	
DATE	

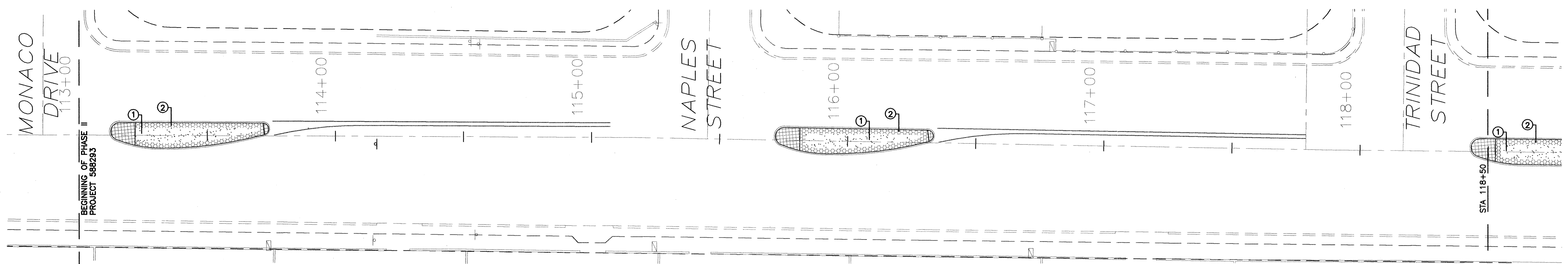
BENCH MARKS	
STANDARD ACS BRASS TABLET STAMPED "9-G21", DRILLED INTO THE TOP OF THE CONCRETE CURB ON THE EAST MEDIAN AT THE INTERSECTION OF COMANCHE RD NE AND EUBANK BLVD NE.	
NM STATE PLANE COORDINATES (NAD 1927)	
X=415515.66, Y=1500259.11	
G-G FACTOR: 0.9996434	
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SURVEY INFORMATION	
FIELD NOTES	
1	2/99
1	12/01
1	ALS

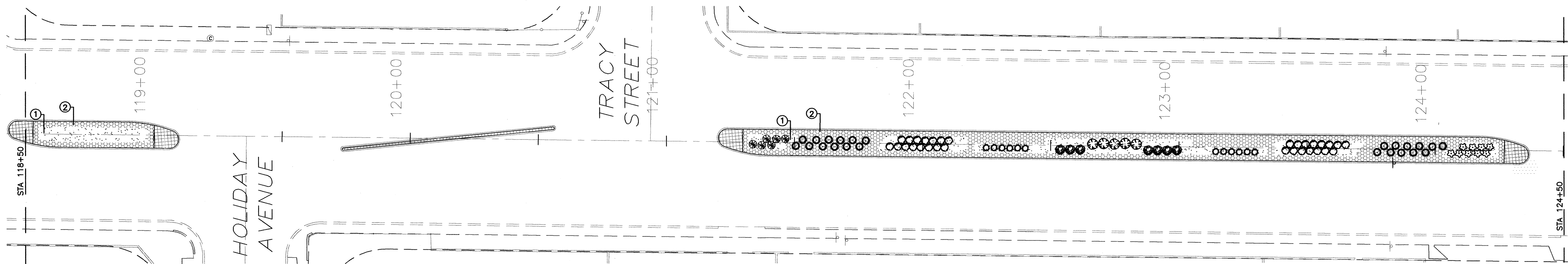
ENGINEER'S SEAL	
CITY STANDARD DRAWING	

REVISIONS	
NO.	DATE
DESIGNED BY	TOI
DATE	01/02
DRAWN BY	KSH
DATE	01/02
CHECKED BY	TOI
DATE	01/02

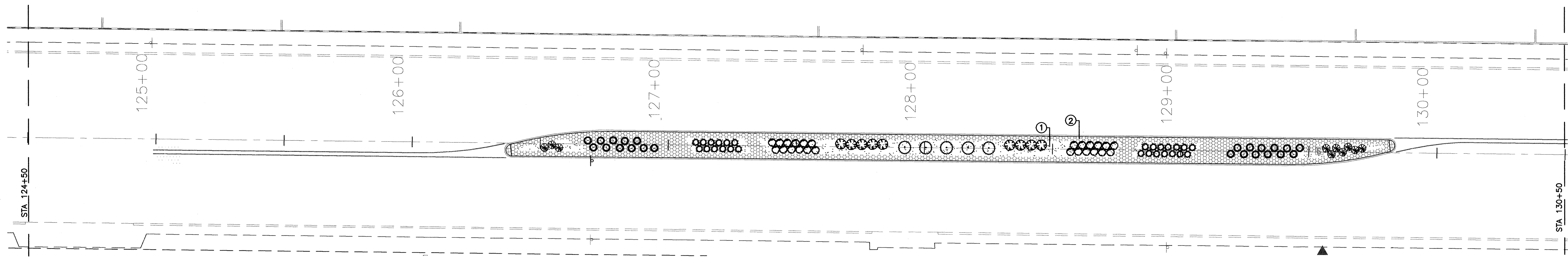
RECORD DRAWING



PLANTING PLAN STA 113+00.00 TO 118+50.00



PLANTING PLAN STA 118+50.00 TO 124+50.00

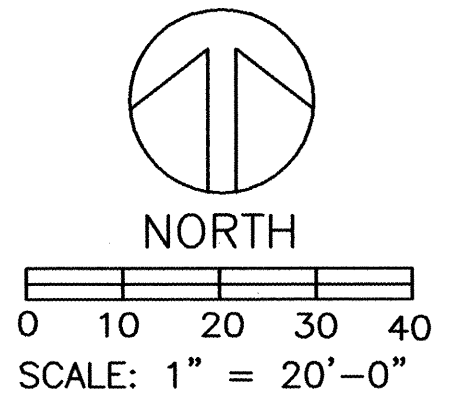


PLANTING PLAN STA 124+50.00 TO 130+50.00

PLANT LEGEND						
SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	INSTALLED SIZE	MATURE SIZE	MINIMUM SPACING
SHRUBS						
	Berberis haematocarpa	ALGERITA	5	5 GAL.	60" X 48" HT.	8' O.C.
	Rhus trilobata	THREE LEAF SUMAC	14	5 GAL.	60" X 36" HT.	5' O.C.
	Fallugia paradoxa	APACHE PLUME	7	5 GAL.	60" X 48" HT.	5' O.C.
	Eurotia lanata	WINTERFAT	54	5 GAL.	24" X 24" HT.	3' O.C.
	Nolana texana	LITTLE BEARGRASS	46	5 GAL.	24" X 24" HT.	4' O.C.
	Artemisia filifolia	THREADLEAF SAGE	38	5 GAL.	36" X 36" HT.	3' O.C.
ORNAMENTAL GRASSES						
	Miscanthus sinensis, "Yakujima"	DWARF MAIDENGRASS	16	5 GAL.	36" X 36" HT.	3' O.C.
	Muhlenbergia capillaris	REGAL MIST MUHLY	9	5 GAL.	36" X 36" HT.	3'-4' O.C.

MATERIALS SCHEDULE	
	2"-4" SANTA ANA TAN COBBLESTONE
	SANTA FE BROWN CRUSHER FINES (60%) 1/2" CRUSHED GRAVEL (40% GRAVEL) CUSTOM BLEND
	TEXTURED MEDIAN CONCRETE (SEE CIVIL PLANS)

G. Robert Johns, ASLA
LANDSCAPE ARCHITECTS
3218 SILVER AVENUE SE
ALBUQUERQUE, NEW MEXICO 87106
PHONE: (505)266-8027
FAX: (505)266-6234



- KEYED NOTES**
- ① 2" - 3" DEPTH MULCH MIX: SANTA FE CRUSHER FINES (60%) AND 1/2" GREY CRUSHED GRAVEL (40%) (LAFARGE 343-7800 OR EQUAL). NO FILTER FABRIC REQUIRED. MULCH SHALL BE MIXED THOROUGHLY AND SHALL BE RAKED AND BROUGHT TO A UNIFORM SURFACE. RECLAMATION SEED MIX (SEE NOTES SHEET 36) SHALL BE BROADCAST ACCORDING TO CITY SPECIFICATION 1011.5.4.
- ② A MINIMUM 2" DEPTH OF 4" - 2" SANTA ANA TAN COBBLESTONE (LAFARGE 343-7800 OR EQUAL).

FOR INFORMATION ONLY

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: COMANCHE ROAD & LANDSCAPING
PLANTING PLAN STA 113+00.00 TO STA 130+50.00

DESIGN REVIEW COMMITTEE APPROVE OCT - 9 2012
CITY ENGINEER APPROVE OCT - 9 2012

City Project No. 588293 Zone Map No. G22 Sheet 15 Of 22

SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
1	SURV-TEK, INC.	2/99	STANDARD ACS BRASS TABLET STAMPED "9-C21", DRILLED INTO THE TOP OF THE CONCRETE CURB AT THE INTERSECTION OF COMANCHE ROAD NE AND EUBANK BOULEVARD NE. ELEVATION = 5536.00 FEET	CONTRACTOR Universal Constructors	WORK STAGED BY Universal Constructors
				DATE 7/03	DATE 7/03
				ACCEPTANCE BY EAP	DATE 7/03
				REVISION BY EAP	DATE 7/03
				REVISION BY 771	DATE 7/03
				MICRO-FILM INFORMATION	RECORDED BY
					DATE
					NO.

ENGINEER'S SEAL

RECORD DRAWING

9/02

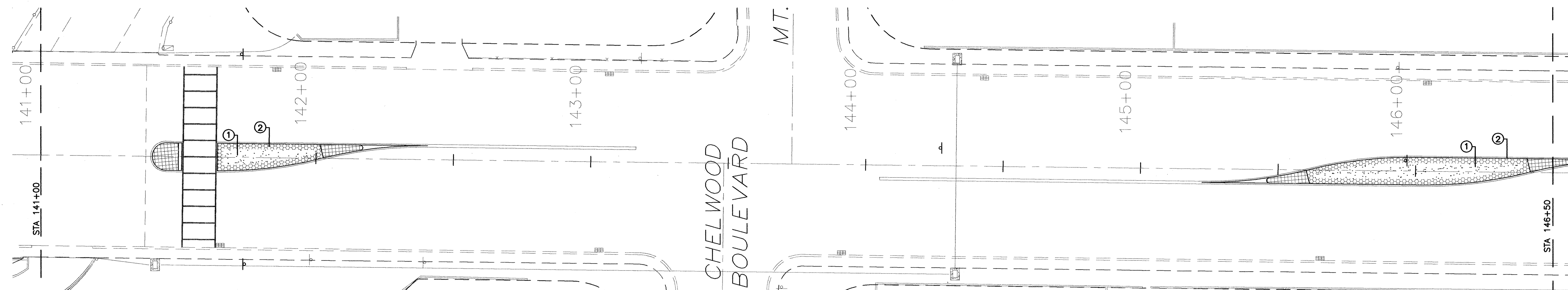
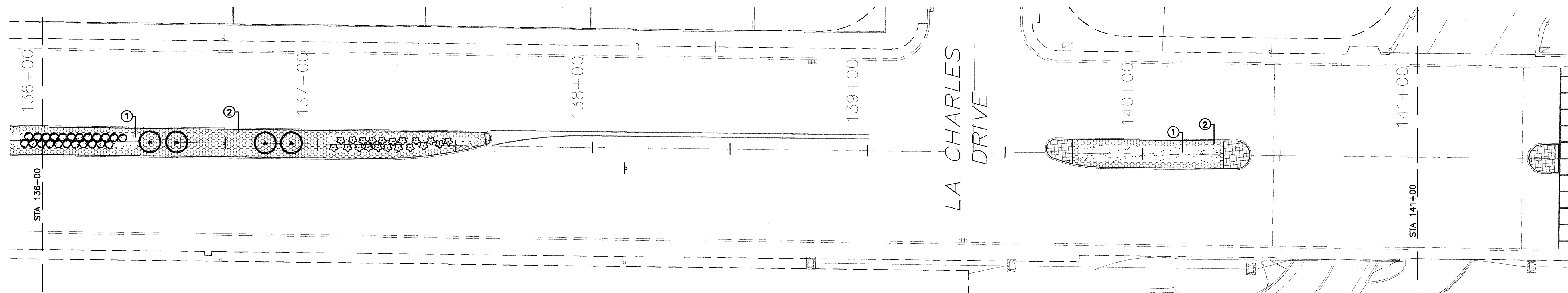
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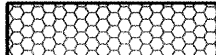
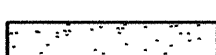
DESIGN

DESIGNED BY GRJ/ml DATE 9/06/02

DRAWN BY ML DATE 9/06/02

CHECKED BY GRJ DATE 9/06/02

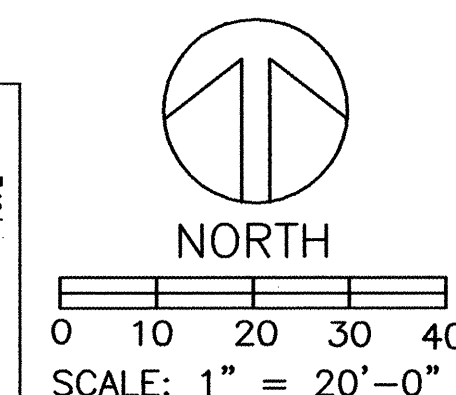


PLANT LEGEND							MATERIALS SCHEDULE	
SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	INSTALLED SIZE	MATURE SIZE	MINIMUM SPACING		
<u>SHRUBS</u>								2"-4" SANTA ANA TAN COBBLESTONE
	<i>Cercocarpus montanus</i>	MOUNTAIN MAHOGANY	20	5 GAL.	60" X 36" HT.	8' O.C.		
	<i>Eurotia lanata</i>	WINTERFAT	42	5 GAL.	24" X 24" HT.	3' O.C.		SANTA FE BROWN CRUSHER FINES (60%) 1/2" CRUSHED GRAVEL (40% GRAVEL) CUSTOM BLEND
	<i>Dalea formosa</i>	FEATHER DALEA	40	5 GAL.	24" X 24" HT.	2' O.C.		
<u>ORNAMENTAL GRASSES</u>								TEXTURED MEDIAN CONCRETE (SEE CIVIL PLANS)
	<i>Muhlenbergia capillaris</i>	REGAL MIST MUHLY	38	5 GAL.	36" X 36" HT.	3'-4' O.C.		

NOTE:
SEE SHEETS 21 AND 22 FOR NOTES AND DETAILS.

C:\PROJECTS\COMANCHE MEDIAN\DWGS\100%\03015-ph2\03015-pl-ph2.dwg 9-05-02 03:57:49 PM mlewiecki

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KEYED NOTES

- ① 2" - 3" DEPTH MULCH MIX: SANTA FE CRUSHER FINES (60%) AND 1/2" GREY CRUSHED GRAVEL (40%) (LAFARGE 343-7800 OR EQUAL) NO FILTER FABRIC REQUIRED. MULCH SHALL BE MIXED THOROUGHLY AND SHALL BE RAKED AND BROUGHT TO A UNIFORM SURFACE. RECLAMATION SEED MIX (SEE NOTES SHEET 36) SHALL BE BROADCAST ACCORDING TO CITY SPECIFICATION 1011.5.4.
- ② A MINIMUM 2" DEPTH OF 4" - 2" SANTA ANA TAN COBBLESTONE (LAFARGE 343-7800 OR EQUAL).

RECORD DRAWING

FOR INFORMATION ONLY



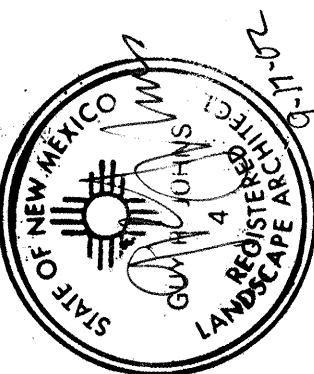
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:	COMANCHE ROAD MEDIAN RECONSTRUCTION & LANDSCAPING PLANTING PLAN STA 130+50.00 TO STA 146+50.00
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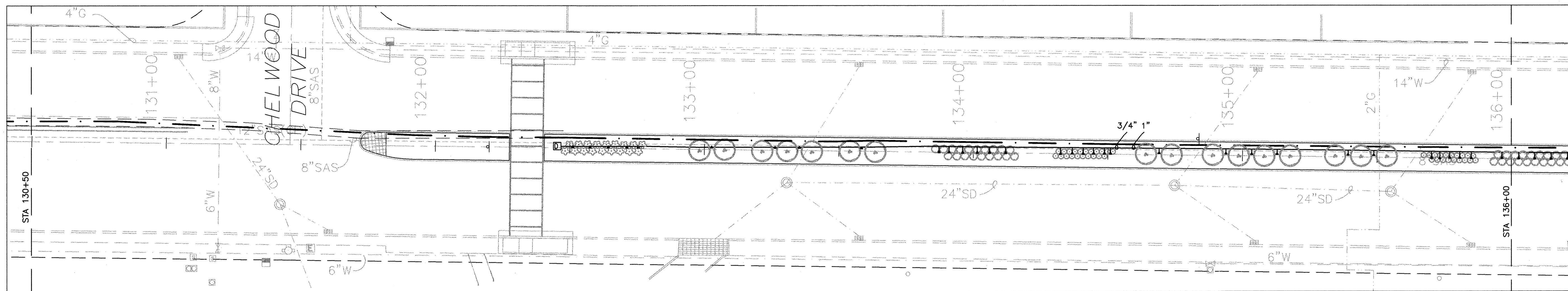
Design Review Committee	City Engineer Approval		Mo./Day/Yr.	Mo./Day/Yr.
APPROVE	APPROVE			
A MAY - 9 2002 DESIGN REVIEW COMMITTEE	A OCT - 9 2002 CITY ENGINEER	Last Design Update		

City Project No.	588293	Zone Map No.	G22	Sheet	16	Of	22
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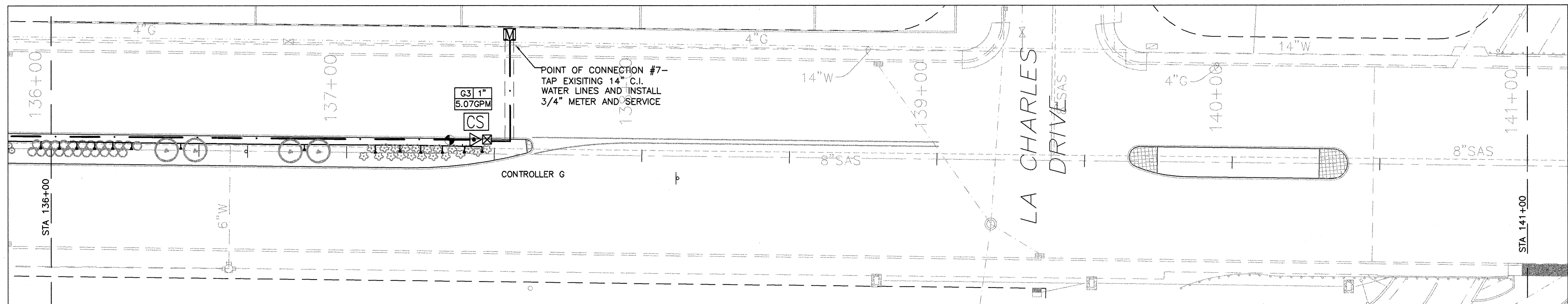
SURVEY INFORMATION		BENCH MARKS	AS-BUILT INFORMATION	
FIELD	NOTES		CONTRACTOR	DATE
1	SURV-TEK, INC.	2/99	STANDARD ACS BRASS TABLET STAMPED "9-G-21", DRILLED INTO THE TOP OF THE CONCRETE CURB AT THE INTERSECTION OF COMANCHE ROAD NE AND EUBANK BOULEVARD NE. ELEVATION = 5536.00 FEET	CONTRACTOR <u>Universal Construction</u> STAKED BY <u>Universal</u> DATE <u>7/03</u> INSPECTOR'S VERIFICATION BY <u>ETAR</u> DATE <u>9/03</u> FIELD VERIFICATION BY <u>ETAR</u> DATE <u>9/03</u> CORRECTED BY <u>TD</u> DATE <u>7/03</u> <u>MICRO-FILM</u> INFORMATION RECORDED BY _____ DATE _____ NO. _____



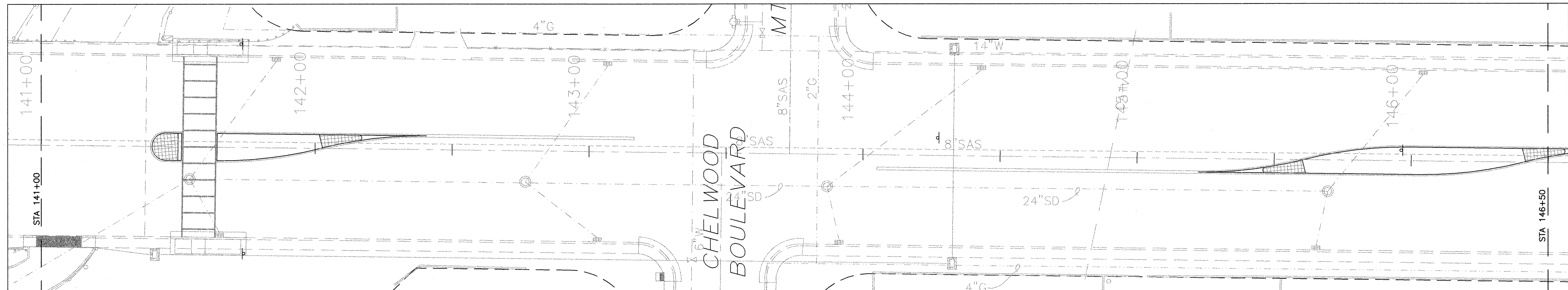
<u>A</u>	9/13	<i>Record Drawings</i>		Tot.
NO.	DATE	REMARKS	BY	
DESIGN REVISIONS				
DESIGN				
DESIGNED BY	GRJ/ML	DATE	9/06/02	
DRAWN BY	ML	DATE	9/06/02	
CHECKED BY	GRJ	DATE	9/06/02	



IRRIGATION PLAN STA 130+50.00 TO 136+00.00



IRRIGATION PLAN STA 136+00.00 TO 141+00.00

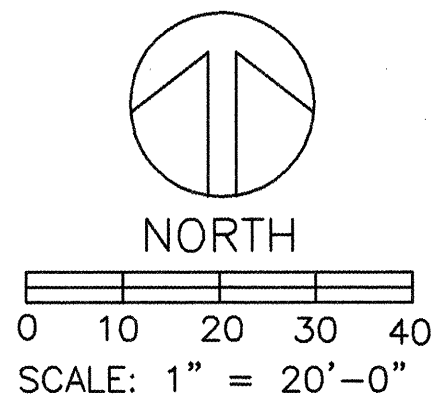


IRRIGATION PLAN STA 141+00.00 TO 146+50.00

NOTE: A SANITARY SEWER LINE RUNS DOWN THE CENTER OF THE MEDIANS. TO AVOID CONFLICTS, MAINLINES SHALL BE LOCATED 3' NORTH OF ISLAND CENTERLINE. LATERALS AND RISERS SHALL BE INSTALLED NORTH OF THE ISLAND CENTERLINE. PLACEMENT OF IRRIGATION EQUIPMENT AND LINES ARE SHOWN FOR GRAPHIC PURPOSES ONLY. ALL EQUIPMENT AND LINES SHALL BE PLACED WITHIN THE MEDIAN ISLANDS PER NOTES AND CITY STANDARDS.

NOTE:
SEE SHEETS 21 AND 22 FOR LEGEND, NOTES AND DETAILS.

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VALVE LEGEND

VALVE AND STATION NO. 11 1" VALVE SIZE
TOTAL GPM 2.33GPM

RECORD DRAWING

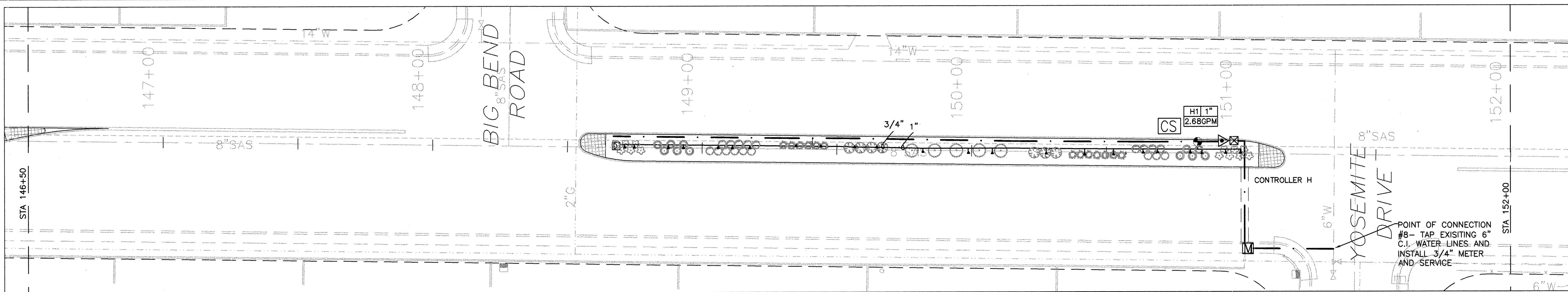
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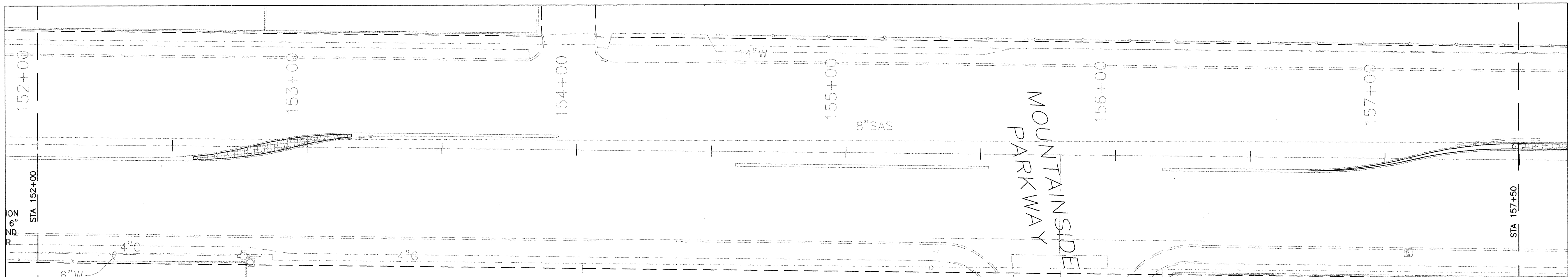
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
COMANCHE ROAD TITLE: MEDIAN RECONSTRUCTION & LANDSCAPING IRRIGATION PLAN STA 130+50.00 TO STA 146+50.00	
DESIGNED BY GRJ/JT	DATE 9/06/02
DRAWN BY ML	DATE 9/06/02
CHECKED BY GRJ/JT	DATE 9/06/02
City Project No. 588293	Zone Map No. G22
Sheet 19	Of 22

SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
1	FIELD NOTES	STANDARD ACS BRASS TABLET STAMPED "9-021", DRILLED INTO THE TOP OF THE CONCRETE CURB AT THE INTERSECTION OF COMANCHE ROAD NE AND EUBANK BOULEVARD NE.		CONTRACTOR'S NAME	Universal Architects
				DATE	9/03
				INSPECTOR'S NAME	EAH
				DATE	9/03
				FIELD REVISION BY	EAH
				DATE	9/03
				CHECKED BY	TDI
				DATE	9/03
				MICRO-FILM INFORMATION	
				RECORDED BY	
				NO.	

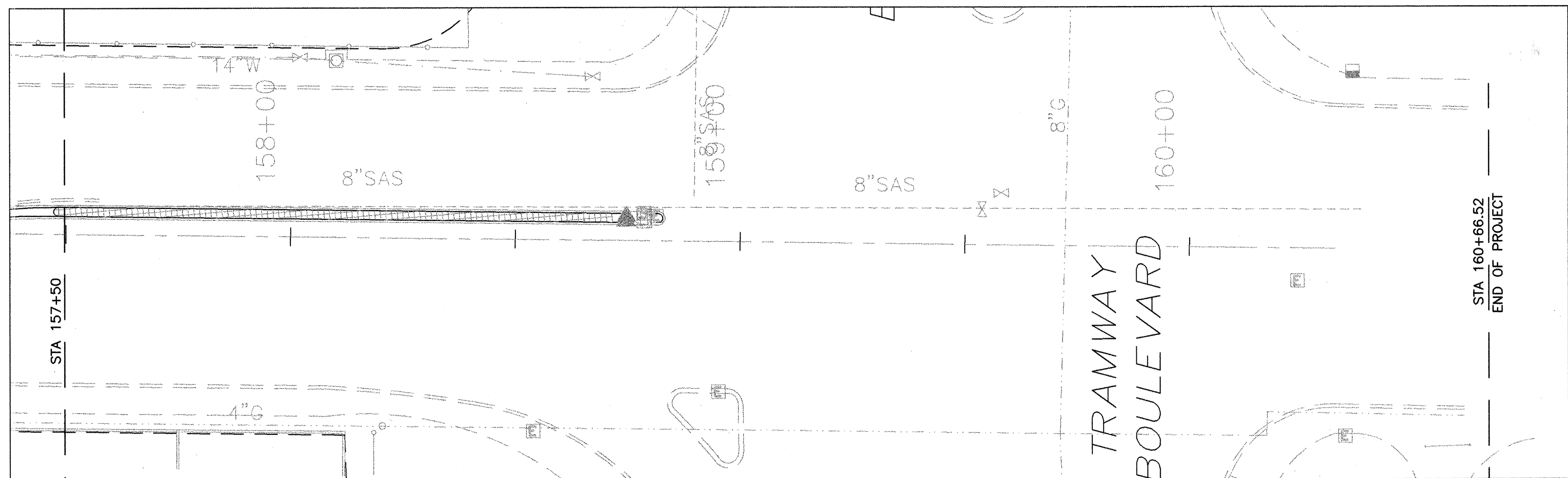




IRRIGATION PLAN STA 146+50.00 TO 152+00.00



IRRIGATION PLAN STA 152+00.00 TO 157+00.00

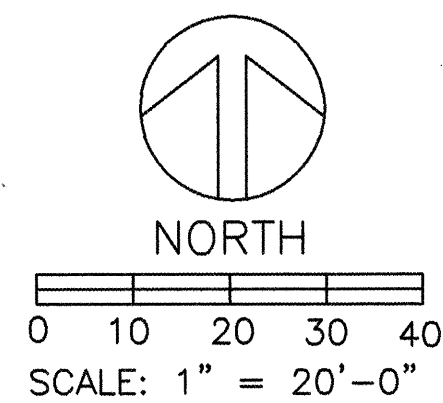


IRRIGATION PLAN STA 157+00.00 TO END

NOTE: A SANITARY SEWER LINE RUNS DOWN THE CENTER OF THE MEDIANS. TO AVOID CONFLICTS, MAINLINES SHALL BE LOCATED 3' NORTH OF ISLAND CENTERLINE. LATERALS AND RISERS SHALL BE INSTALLED NORTH OF THE ISLAND CENTERLINE. PLACEMENT OF IRRIGATION EQUIPMENT AND LINES ARE SHOWN FOR GRAPHIC PURPOSES ONLY. ALL EQUIPMENT AND LINES SHALL BE PLACED WITHIN THE MEDIAN ISLANDS PER NOTES AND CITY STANDARDS.

NOTE:
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VALVE LEGEND

VALVE AND STATION NO. 11 1" VALVE SIZE
TOTAL GPM 2.33GPM

RECORD DRAWING

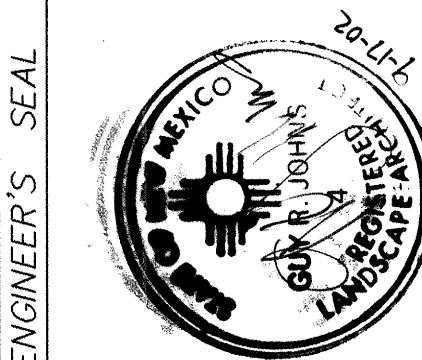
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP
TITLE: MEDIAN RECONSTRUCTION & LANDSCAPING
IRRIGATION PLAN STA 146+50.00 TO STA 161+50.00

Design Review Committee: APPROVE OCT - 9 2002
City Engineer Approval: APPROVE OCT - 9 2002
Last Design Update: APPROVE OCT - 9 2002

City Project No. 588293 Zone Map No. G22 Sheet 20 Of 22



NO.	DATE	REMARKS	BY
1	9/03	DESIGN	GRJ/JT
2	9/03	DESIGN	GRJ/JT
3	9/03	DESIGN	GRJ/JT
4	9/03	DESIGN	GRJ/JT
5	9/03	DESIGN	GRJ/JT
6	9/03	DESIGN	GRJ/JT
7	9/03	DESIGN	GRJ/JT
8	9/03	DESIGN	GRJ/JT
9	9/03	DESIGN	GRJ/JT
10	9/03	DESIGN	GRJ/JT

AS-BUILT INFORMATION	BENCH MARKS	SURVEY INFORMATION	FIELD NOTES
CONTRACTOR: Universal Construction WORK STATED BY: Universal Construction DATE: 9/03 REVISIONS: BY: EHR DATE: 9/03 CORRECTED BY: TDI DATE: 9/03 MICRO-FILM INFORMATION RECORDED BY: NO. DATE:	STANDARD ACS BRASS TABLET STAMPED "9-021" DRILLED INTO THE TOP OF THE CONCRETE CURB AT THE INTERSECTION OF COMANCHE ROAD NE AND EUBANK BOULEVARD NE. ELEVATION = 5536.00 FEET	1 SURV-TEK, INC. 2/99	

PROJECT NOTES

THE NUMBERING OF POINTS OF CONNECTION, CONTROLLERS AND VALVES ARE CONTINUATIONS FROM THE PREVIOUS PROJECT (FROM WYOMING TO EUBANK) FOR CONSISTENCY AND EASE IN MAINTENANCE

THE LOCATIONS FOR THE POINTS OF CONNECTION ARE SHOWN AS DIRECTED BY THE DEVELOPMENT SERVICES OF THE CITY PUBLIC WORKS DEPARTMENT.

UEC CHARGES SHALL BE PAID BY THE CITY OF ALBUQUERQUE PER THE CITY PROJECT MANAGER'S DIRECTIVE.

PLANTING NOTES

1 THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING PLANTING OPERATIONS AND SHALL NOTIFY THE CITY'S PROJECT MANAGER OF ANY CONDITIONS THAT CONFLICT WITH THE PROPOSED WORK.

2 PLANTING INSTALLATION SHALL BE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS AND DETAILS UNLESS OTHERWISE NOTED.

3 WEED REMOVAL - ALL PLANTING AREAS ARE TO HAVE ALL WEEDS AND COMPETITIVE VEGETATION REMOVED PRIOR TO BEGINNING ANY PREPARATION FOR PLANTING.

4 IN CASE OF A DISCREPANCY IN THE PLANT QUANTITIES SHOWN ON THE PLANT SCHEDULE AND THOSE ILLUSTRATED ON THE PLANTING PLAN, THE QUANTITIES ON THE PLANTING PLAN SHALL GOVERN. THE BOTANICAL NAME WILL TAKE PRECEDENCE OVER THE COMMON NAME IF A DISCREPANCY OCCURS.

5 ALL PLANT SPECIMENS OF THE SAME SPECIES SHALL BE MATCHING IN PROPER AND APPROPRIATE SIZE AND CHARACTER AS PER THE AMERICAN NURSERYMEN'S ASSOCIATION STANDARDS.

6 SHRUBS AND ORNAMENTAL GRASSES SHALL BE PLANTED PER CITY OF ALBUQUERQUE STANDARD DRAWING 2718. C.O.A. DWG. 2718 SHALL BE REVISED AS FOLLOWS: a) REFERENCE TO REMOVAL OF EXISTING SOIL AND INSTALLATION OF PLANTING SOIL MIXTURE SHALL BE DELETED. PRIOR TO PLANTING THE CONTRACTOR SHALL INSTALL 4" DEPTH OF RIO GRAND COMPOST AVAILABLE FROM WESTERN ORGANICS, OR APPROVED EQUAL, THROUGHOUT THE PLANTING AREA AND SHALL ROTOTILL TO A TOTAL MINIMUM DEPTHS OF 10". BACKFILL AT SHRUBS WILL REQUIRE NO ADDITIONAL AMENDMENTS. b) DELETE REFERENCES TO BARK MULCH; ADD CRUSHER FINES/GRAVEL MULCH. c) ADJUST SETTING HEIGHT/ LEVEL OF SHRUBS, PERENNIALS AND GRASSES SO THAT THE TOP OF THE ROOTBALL WILL BE COVERED BY 1" MAXIMUM DEPTH OF MULCH.

7 ALL PLANTING AREAS SHALL BE COVERED WITH MULCH. SEE PLANS AND KEYED NOTES FOR TYPE OF MULCH REQUIRED.

8 ALL AREAS MULCHED WITH CRUSHER FINES SHALL RECEIVE RECLAMATION SEEDING (SEE TABLE BELOW FOR MIXTURE). SEEDING SHALL BE IN ACCORDANCE WITH THE CITY SPECIFICATION FOR BROADCAST SEEDING (1011.5.4).

9 FOR SECTION ACROSS MEDIAN SEE DETAIL A/22.

CROSS SLOPE

RANGE: MINIMUM 0.80%

RANGE: MAXIMUM 3.27%

IRRIGATION NOTES

1 THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING INSTALLATION, AND SHALL NOTIFY CITY'S PROJECT MANAGER OF ANY CONDITIONS THAT CONFLICT WITH THE PROPOSED WORK.

2 THE IRRIGATION LAYOUT SHOWN IS SCHEMATIC. ACTUAL INSTALLATION MAY VARY SLIGHTLY TO ACCOMMODATE FIELD CONDITIONS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONDITIONS WHICH SEEM TO WARRANT SUBSTANTIAL DEVIATION FROM THE PLANS.

3 STATIC WATER PRESSURE AT THE SITE VARIES ALONG THE +/- 2 MILE LENGTH (RANGES FROM 100 TO 40 PSI). VERIFY PRIOR TO BEGINNING IRRIGATION WORK AT EACH ISLAND. REQUIRED DESIGN/OPERATING PRESSURE AT EMITTERS SHALL BE AS INDICATED ON IRRIGATION LEGEND.

4 ALL IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS AND DETAILS, UNLESS OTHERWISE NOTED.

5 SLEEVING - ALL IRRIGATION LINES BENEATH PAVING OR OTHER RIGID STRUCTURES SHALL BE LOCATED WITHIN A PVC CLASS 200 SLEEVE. ALL SLEEVES SHALL EXTEND A MINIMUM OF 1'-0" BEYOND THE PAVING. THE SLEEVE SIZE FOR THE IRRIGATION LINE SHALL BE A MINIMUM OF 2 SIZES LARGER THAN THE LINE SIZE. 24-VOLT WIRE SHALL BE IN A COMMON TRENCH WITH THE MAINLINE AND SHALL BE SLEEVED UNDER ALL PAVING AND RIGID STRUCTURES IN A 1-1/4" CLASS 200 PVC PIPE.

6 ALL 24-VOLT WIRE SHALL BE MARKED WITH A 4" WIDE YELLOW MARKER TAPE AND MARKED "WARNING ELECTRICAL". LAY MARKER TAPE HORIZONTALLY 6" ABOVE WIRE. MARK ALL 24-VOLT WIRE ENDS WITH 3M STD-09 WIRE MARKER TAPE AT THE VALVE BOX AND CONTROLLER LOCATIONS.

7 VALVE BOXES SHALL BE INSTALLED A MINIMUM OF 12" FROM CURBS OR WALKS.

8 WHERE PROPOSED PIPING CROSSES EXISTING ASPHALT AND/OR CONCRETE WHICH IS NOT BEING REPLACED AS PART OF THIS PROJECT, THE CONTRACTOR SHALL SAW CUT, REMOVE AND PROPERLY DISPOSE OF WASTE. THEN EXCAVATE, INSTALL SLEEVE PIPING, MAINS AND LATERALS, BACKFILL AND COMPACT. CONTRACTOR SHALL THEN REPLACE PAVEMENT AS PER CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS AND DETAILS.

9 THE CONTRACTOR SHALL ADJUST ALL VALVES AND EMITTERS FOR OPTIMUM COVERAGE.

10 CONTRACTOR SHALL EXTEND 120 VOLT AC FROM EXISTING POWER WHERE IDENTIFIED AS AVAILABLE TO PROPOSED CONTROLLERS AND BACKFLOW PREVENTER LOCATIONS. ALL ELECTRICAL WORK SHALL BE PER LOCAL CODES AND N.E.C. STANDARDS. SOLAR CONTROLLERS SHALL BE LOCATED WHERE IDENTIFIED ON PLANS.

11 CONTRACTOR SHALL INSTALL THE 1/4" DRIP TUBING WITH A 4" DEPTH COVERAGE TO THE PLANT. A 3" LENGTH OF TUBING SHALL BE EXPOSED ABOVE THE MULCH. NO EMITTER SHALL REST PAST THE ROOT BALL OF THE PLANT. MAXIMUM LENGTH OF 1/4" TUBING SHALL BE 8'. EMITTERS SHALL BE LOCATED ON THE UPHILL SIDE OF PLANTS AND SHALL BE LOCATED ON EITHER SIDE OF PLANT SO THAT WHOLE ROOT AREA OF PLANT WILL GET WATER.

12 CONTRACTOR SHALL INSTALL THE 1/4" DRIP EMITTER TUBING UNDER 4" - 5" DEPTH OF COVERAGE THROUGHOUT PLANTER AREA.

13. A MANUAL DRAIN SHALL BE INSTALLED AT THE END (AT THE LOW POINT) OF EACH LATERAL. EACH DRAIN SHALL BE INSTALLED IN A BOX PER DETAIL. DRAIN MAY BE INSTALLED IN A BOX WITH A RISER IN A 10" ROUND BOX IF DRAIN AND RISER ARE IN THE SAME LOCATION.

14. LOCATION OF METERS SHOWN IS SCHEMATIC. FINAL LOCATION OF METERS SHALL BE COORDINATED WITH THE COA WATER DEPARTMENT.

15. ALL INTERSPEC BOXES SHALL BE TAN IN COLOR.

16. PURPOSED CONTROLLER LOCATIONS INDICATED ON THE PLANS ARE APPROXIMATE. ACTUAL LOCATION OF THE CONTROLLERS SHALL BE DETERMINED BY THE OWNER'S REPRESENTATIVE.

17. APPROVED EQUALS MAY BE USED.

RECLAMATION SEEDING		LBS PLS/ACRE
<i>Oryzopsis hymenoides</i> "Paloma"	PALOMA INDIAN RICEGRASS	8.0
<i>Hilaria jamesii</i> "Viva"	VIVA GALLETA GRASS	6.0
<i>Bouteloua curtipendula</i> "Niner"	NINER SIDEOTS GRAMA	4.0
<i>Bouteloua gracilis</i> "Hatchita"	HATCHITA BLUE GRAMA	4.0
<i>Sporobolus cryptandrus</i>	SAND DROPSEED	1.0
<i>Baileya multiradiata</i>	DESERT MARIGOLD	.50
<i>Eschscholzia californica</i>	CALIFORNIA POPPY	2.0
<i>Penstemon ambiguus</i>	SAND PENSTEMON	.50
<i>Oenothera speciosa</i>	MEXICAN EVENING PRIMROSE	.50
		26.5 LBS PLS/ACRE

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: COMANCHE ROAD
MEDIAN RECONSTRUCTION & LANDSCAPING
PLANTING AND IRRIGATION NOTES

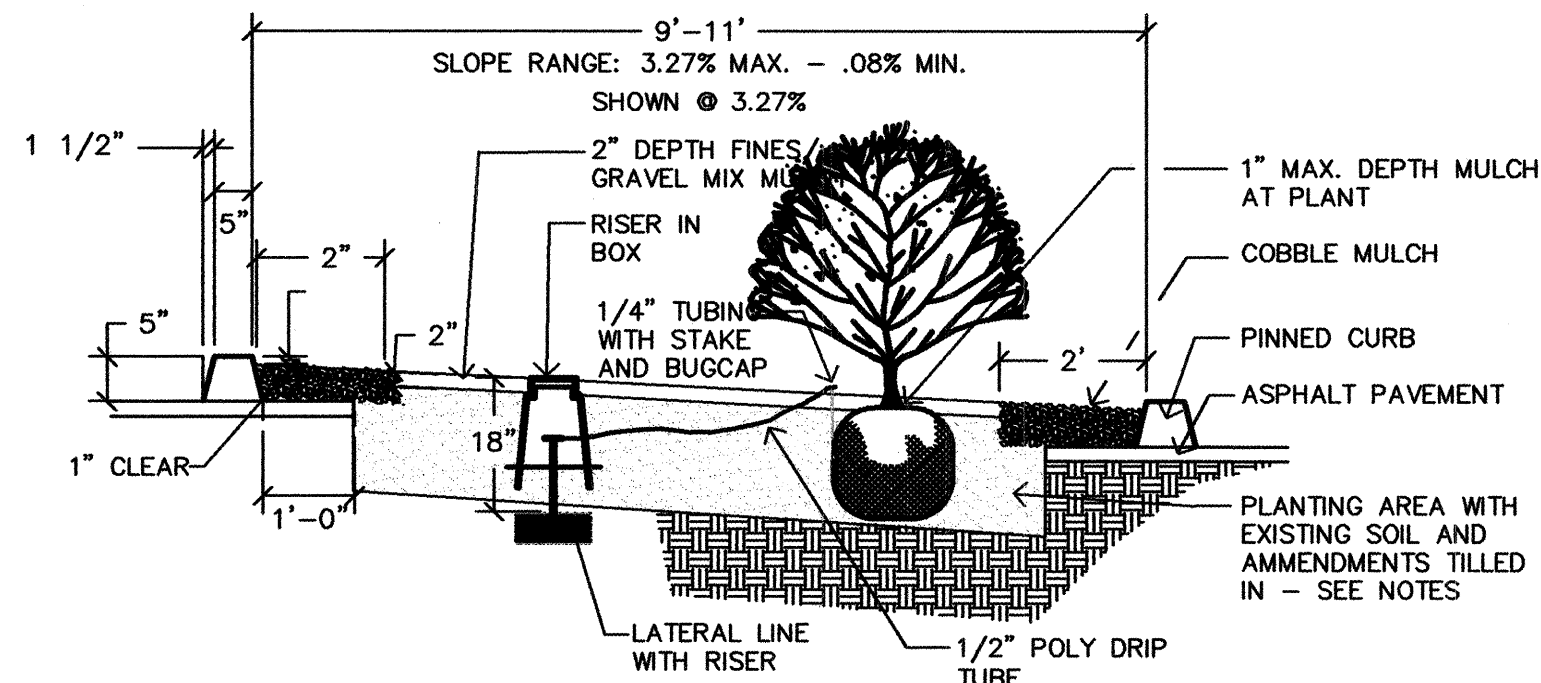
DESIGNED BY GRJ/ML
DRAWN BY ML
CHECKED BY GRJ

DATE 9/06/02
DATE 9/06/02
DATE 9/06/02

City Project No. 588293

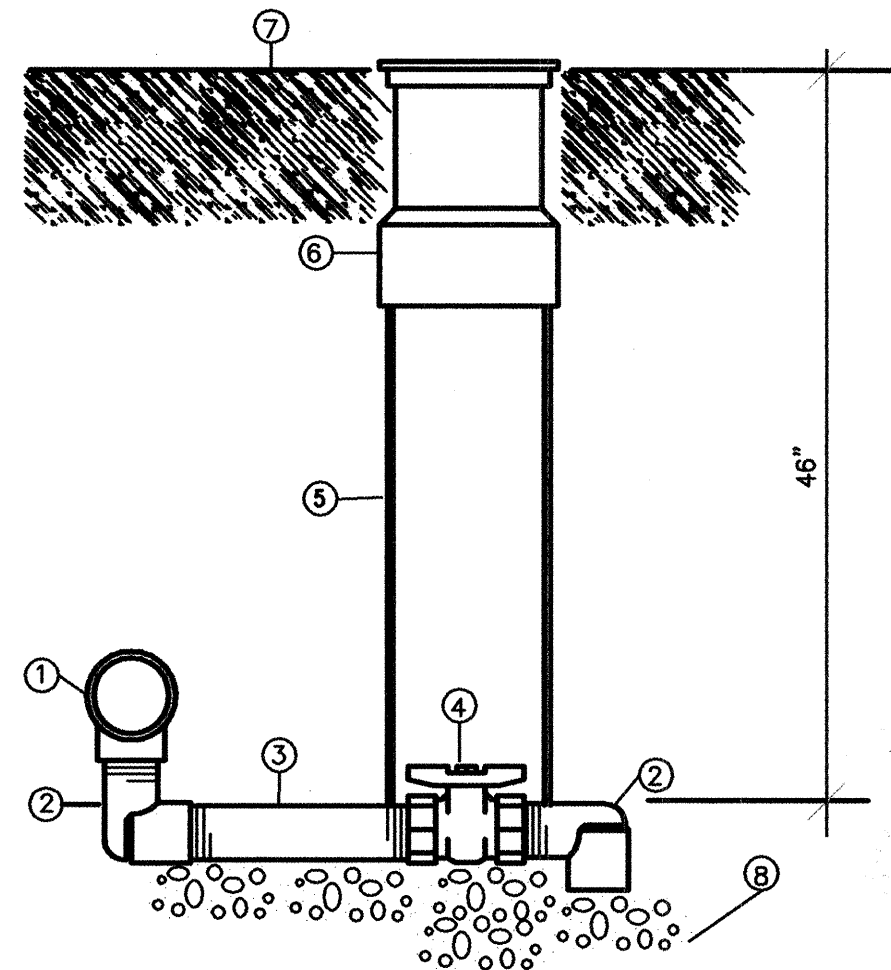
Zone Map No.

Sheet 21 of 22



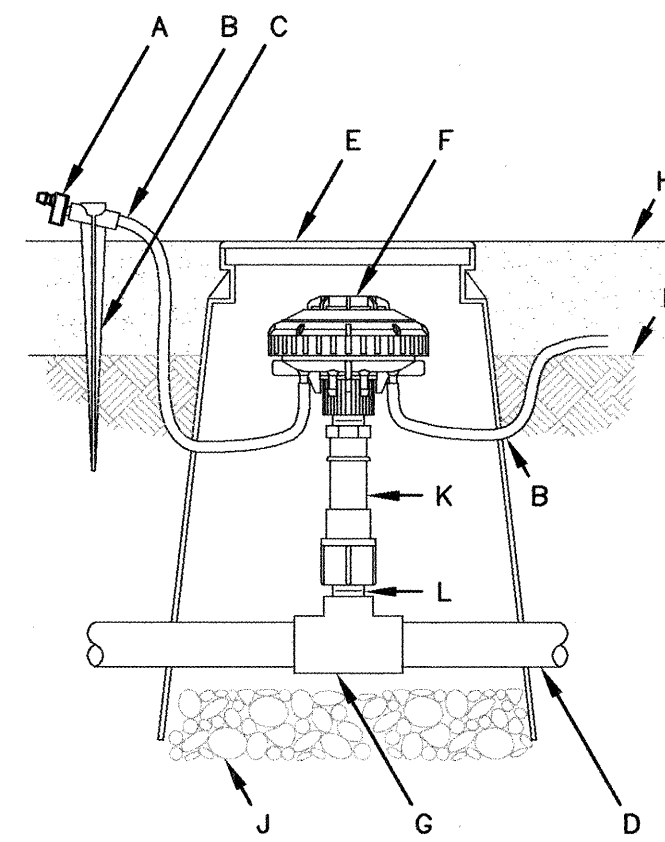
A
22 ISLAND SECTION

N.T.S.



C
22 MANUAL DRAIN ASSEMBLY @ MAINLINE

N.T.S.



B
22 MULTI-OUTLET EMITTER

N.T.S.

- A SINGLE-OUTLET EMITTER: RAIN BIRD XERI-BUG EMITTERS XB-20
- B 1/4-INCH VINYL DISTRIBUTION TUBING: RAIN BIRD DT-025
- C 1/4-INCH TUBING STAKE: RAIN BIRD TS-025
- D PVC LATERAL PIPE
- E SUBTERRANEAN EMITTER BOX: RAIN BIRD SEB-6X
- F MULTI-OUTLET EMISSION DEVICE: RAIN BIRD XERI-BIRD-8 XBD-80
- G PVC SCH 40 TEE OR ELL
- H TOP OF MULCH
- I FINISH GRADE
- J 3-INCH MIN. DEPTH OF 3/4 -INCH WASHED GRAVEL
- K RETROFIT PRESSURE REGULATOR: RAIN BIRD PRS-050
- L PVC SCH 80 CLOSE NIPPLE

VALVING LEGEND-REMAINDER OF PROJECT

STATION	VALVE NO.	VALVE SIZE	TOTAL GPM
CONTROLLER G (SOLAR)G1		1"	3.15
	G2	1"	3.46
	G3	1"	5.07
CONTROLLER H (SOLAR)H1		1"	2.68

EMITTER SCHEDULE

THE FOLLOWING PLANTS SHALL RECEIVE THREE (3) 1 GPH EMITTERS

NEW MEXICO OLIVE
MOUNTAIN MAHOGANY
THREE LEAF SUMAC
ALGERITA

THE FOLLOWING PLANTS SHALL RECEIVE TWO (2) 1 GPH EMITTERS

POWIS CASTLE
APACHE PLUME
WINTERFAT
LITTLE BEARGRASS
THREADLEAF SAGE
FEATHER DALEA
BLUE AVENA GRASS
FOUNTAIN GRASS
AUTUMN GLOW
DWARF MAIDENGRASS
REGAL MIST MUHLY

IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL#	DESCRIPTION	DETAIL	SYMBOL	MANUFACTURER/MODEL#	DESCRIPTION	DETAIL
	3/4" WATER METER AND TAP	WATER METER (4 METERS)	COA DWGS 2363		SCHEDULE 40 PVC	1" MAINLINE UNLESS OTHERWISE NOTED ON PLAN	
	FEBCO MODEL 765.1" PRESSURE VACUUM BREAKER IN PVB-1 MANUFACTURED BY HOT BOX, WITH EXPANSION COLLAR AS REQUIRED WITH 1" MASTER METER AND 1" MASTER VALVE IN TAN BROOKS 1730 PB-18 BODY (ABS) BOX WITH 1730 BOLT DOWN COVER. BOX TO SIT ON 8"x8" X 16" SOLID CMU BLOCKS AND BALL VALVE IN 7" ROUND TAN BROOKS BOX.	1" PVB IN BOX WITH MASTER METER (FLOW METER) AND 1" MASTER VALVE IN BOX. 1" PVB INSTALLED 12" MINIMUM ABOVE THE HIGHEST EMITTER.	COA DWG 2702-A WITH MASTER METER AND MASTER METER INSTEAD OF BERMAD FLOW METER		SCHEDULE 40 PVC	3/4" LATERAL LINE	
	RAINBIRD 1" 100-PB-PRS-D SERIES ELECTRIC VALVE WITH TBOSPOL RAINBIRD POTTED LATCHING SOLENOID AND 1" HMB 25 PSI PRESSURE REGULATOR AND RBY 200 DRIP FILTER IN TAN BROOKS 1730 PB-18 BODY (ABS) BOX WITH 1730 BOLT DOWN COVER. BOX TO SIT ON 8"x8"x16" SOLID CMU BLOCKS.	AUTOMATIC VALVE WITH PRESSURE REGULATOR AND DRIP FILTER, IN BOX.	COA DWG 2703		CLASS 200 PVC SLEEVE	SLEEVE SIZE 2 SIZES LARGER THAN PIPE BEING SLEEVED.	
	1/2" SCHEDULE 80 NIPPLE RISER - LENGTH AS REQUIRED, WITH RAINBIRD XBD-80 XERI-BIRD 8 MULTI-OUTLET EMISSION DEVICE IN 10" ROUND TAN BROOKS BOX WITH CAP.	RISER WITH CHECK VALVE AT BASE AND POLY TUBING. IN BOX (CHECK VALVE SHALL BE ADJUSTED AS REQUIRED TO ALLOW PROPER GPH - SEE PLANT SCHEDULE.)	DETAIL B/22		MOTOROLA SCORPIO V-2 CONTROLLER, IS-S1D-RW-SS-J 8 STATION CONTROLLER.	8 STATION SATELLITE CONTROLLER IN AN INTERSPEC BOX. INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND MUST MEET ALL COA STANDARD REQUIREMENTS CENTRAL IRRIGATION SYSTEM. SOLAR PANEL AND ACCESSORIES MUST BE INCLUDED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.	
	GATE/ISOLATION VALVE IN BROOKS BOX	MAINLINE ISOLATION VALVE ASSEMBLY IN BOX; SIZE TO MATCH MAINLINES.	COA DWG. 2707		MANUAL BRASS DRAIN VALVE IN 10" TAN ROUND VALVE BOX.	TO BE INSTALLED AT END OF EACH LATERAL LINE.	DETAIL C/22

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: COMANCHE ROAD
MEDIAN RECONSTRUCTION & LANDSCAPING
PLANTING AND IRRIGATION DETAILS

DESIGNED BY GRJ/ML
DRAWN BY MLT
CHECKED BY GRJ

DATE 9/06/02
DATE 9/06/02
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REVISIONS
NO. DATE
BY

RECORD DRAWING

City Project No. 588293
Zone Map No.
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