

CONSTRUCTION PLANS
FOR
CRESTVIEW AND GONZALES

PAVING & UTILITY
IMPROVEMENTS

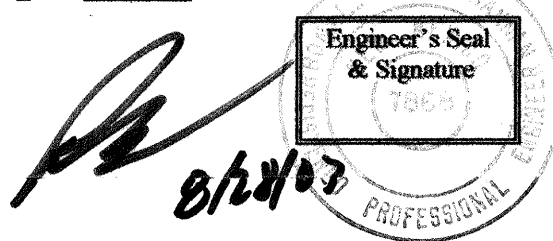
CITY OF ALBUQUERQUE
NEW MEXICO
JANUARY 2003

SCANNED BY
MESA REPRO

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Tierra West LLC, 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 accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Russ P. Hugg of Surv-Tek, NMPs number 9750.

RB



INDEX TO DRAWINGS

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2. GRADING AND DRAINAGE PLAN

3. GAS TREATMENT PLAN

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PAVING IMPROVEMENTS

5. 52ND STREET STA: 10+00 TO 15+16.73
PAVING IMPROVEMENTS

6. MASTER UTILITY PLAN

7. MASTER UTILITY PLAN DETAIL SHEET
8. CRESTVIEW DRIVE STA: 10+00 TO 18+30.00
UTILITY IMPROVEMENTS

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UTILITY IMPROVEMENTS

10. CRESTVIEW DRIVE STA: 10+00 TO 18+30.00
STORM SEWER IMPROVEMENTS

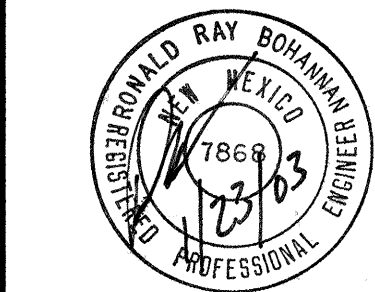
11. SIGNING AND CONSTRUCTION
TRAFFIC CONTROL STANDARDS

12. TYPICAL TRAFFIC CONTROL
& SIGNING EXAMPLES

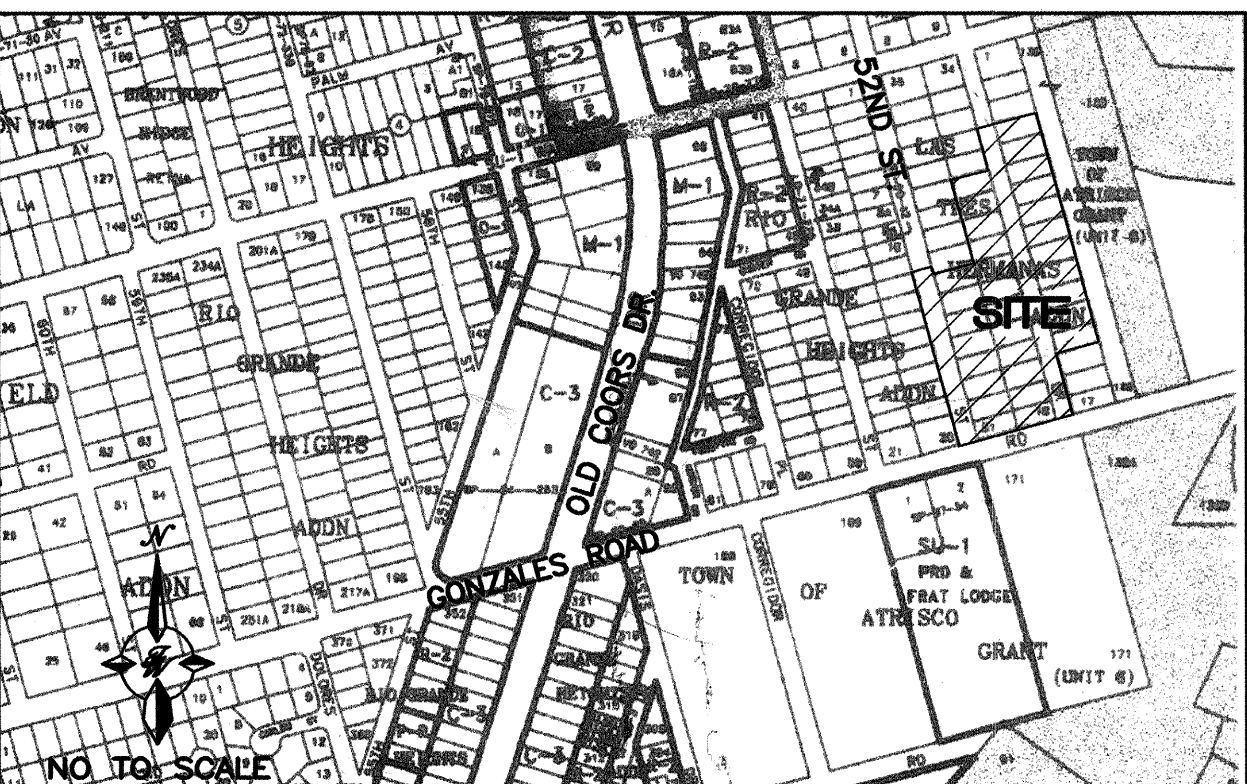
26 7002 81 0104

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
DATE: 4/23/04

TIERRA WEST, LLC
8509 JEFFERSON NE
ALBUQUERQUE, NEW MEXICO 87113
(505)858-3100



REV	SHEETS	CITY ENGINEER	DATE	USER DEPT.	DATE	USER DEPT.	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS	ENGINEER	DATE	APPROVED FOR CONSTRUCTION		
		DRC Chairman	<i>Bohannon</i>	4-1-03	<i>Paul J. Aguin</i> 4/2/03 City Engineer Date		
		Transportation	<i>Bohannon</i>	3-12-03			
		Water/Wastewater	<i>Bohannon</i>	2/28/2003			
		Hydrology	<i>Bohannon</i>	3-12-03			
		Env. Health	<i>Bohannon</i>	3-12-03			
		Constr. Mngmt.	<i>Bohannon</i>	4-1-03			
		Constr. Coord.	<i>Bohannon</i>	4-1-03			
CITY PROJECT NO.				700281	SHEET 1 OF 12		



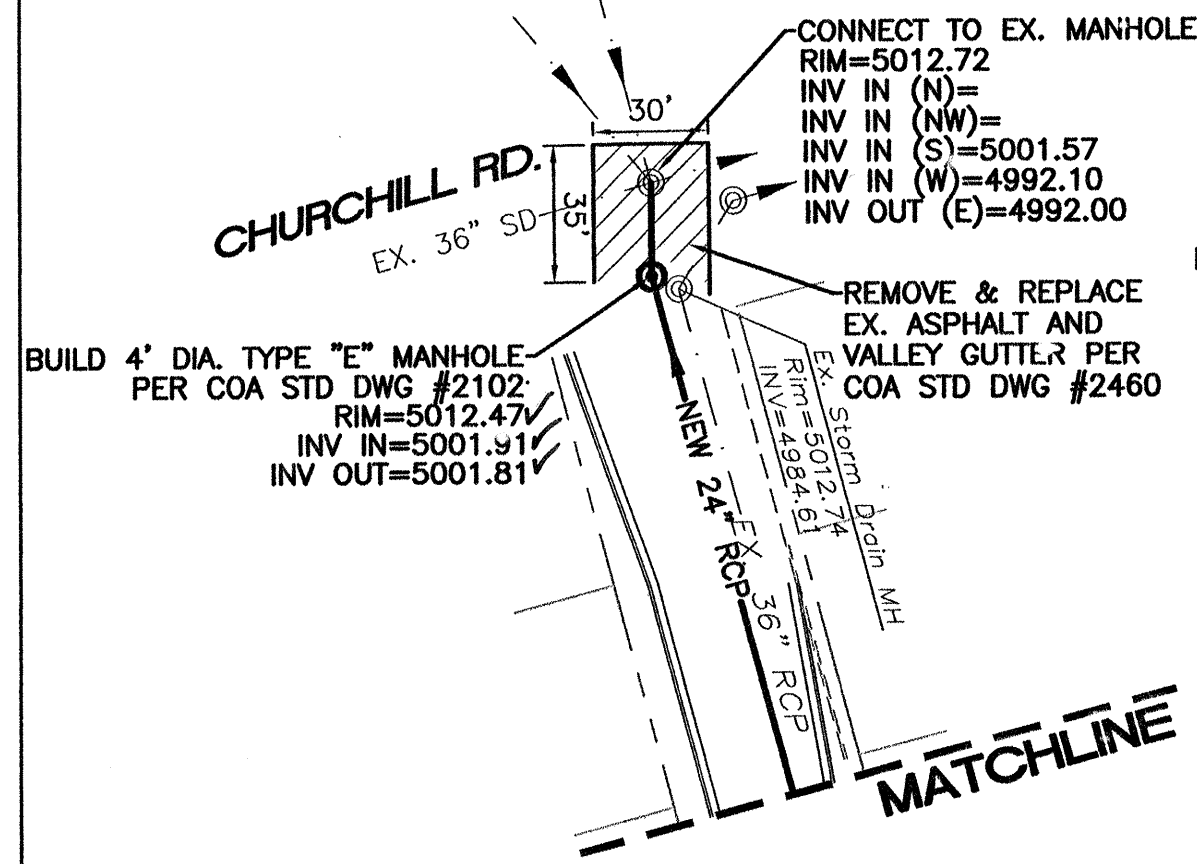
VICINITY MAP ZONE ATLAS K-11-Z

NOTICE TO CONTRACTORS

- 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 (UPDATE #6)
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (280-1990) FOR LOCATION OF EXISTING UTILITIES.
- ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES 24-HOUR CONSTRUCTION.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATIONS DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO STANDARD SPECIFICATIONS.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY THE CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
- CONTRACTOR SHALL NOTIFY THE 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 NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACEMENT IF ANY MONUMENT IS DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS. ANY PERMANENT SURVEY MONUMENT LOCATED WITHIN 50' OF THIS PROJECT THAT IS NOT SHOWN ON THE PLAN AND IS DESTROYED DURING CONSTRUCTION WILL BE REPLACED AT THE DESIGNERS EXPENSE.
- FOR STORM DRAIN CONSTRUCTION, RCP PIPE JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.
- THE SUBJECT PROPERTY IS LOCATED NEAR A FORMER LANDFILL. DUE TO THE SUBJECT PROPERTY BEING NEAR A FORMER LANDFILL, CERTAIN PRECAUTIONARY MEASURES MAY NEED TO BE TAKEN TO ENSURE THE HEALTH AND SAFETY OF THE PUBLIC. RECOMMENDATIONS MADE BY A PROFESSIONAL ENGINEER WITH EXPERTISE IN LANDFILLS AND LANDFILL GAS ISSUES (AS REQUIRED BY THE MOST CURRENT VERSION OF THE "INTERIM GUIDELINES FOR DEVELOPMENT WITHIN 1000 FEET OF LANDFILLS") SHALL BE CONSULTED PRIOR TO DEVELOPMENT OF THE SITE.
- ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART "P."

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

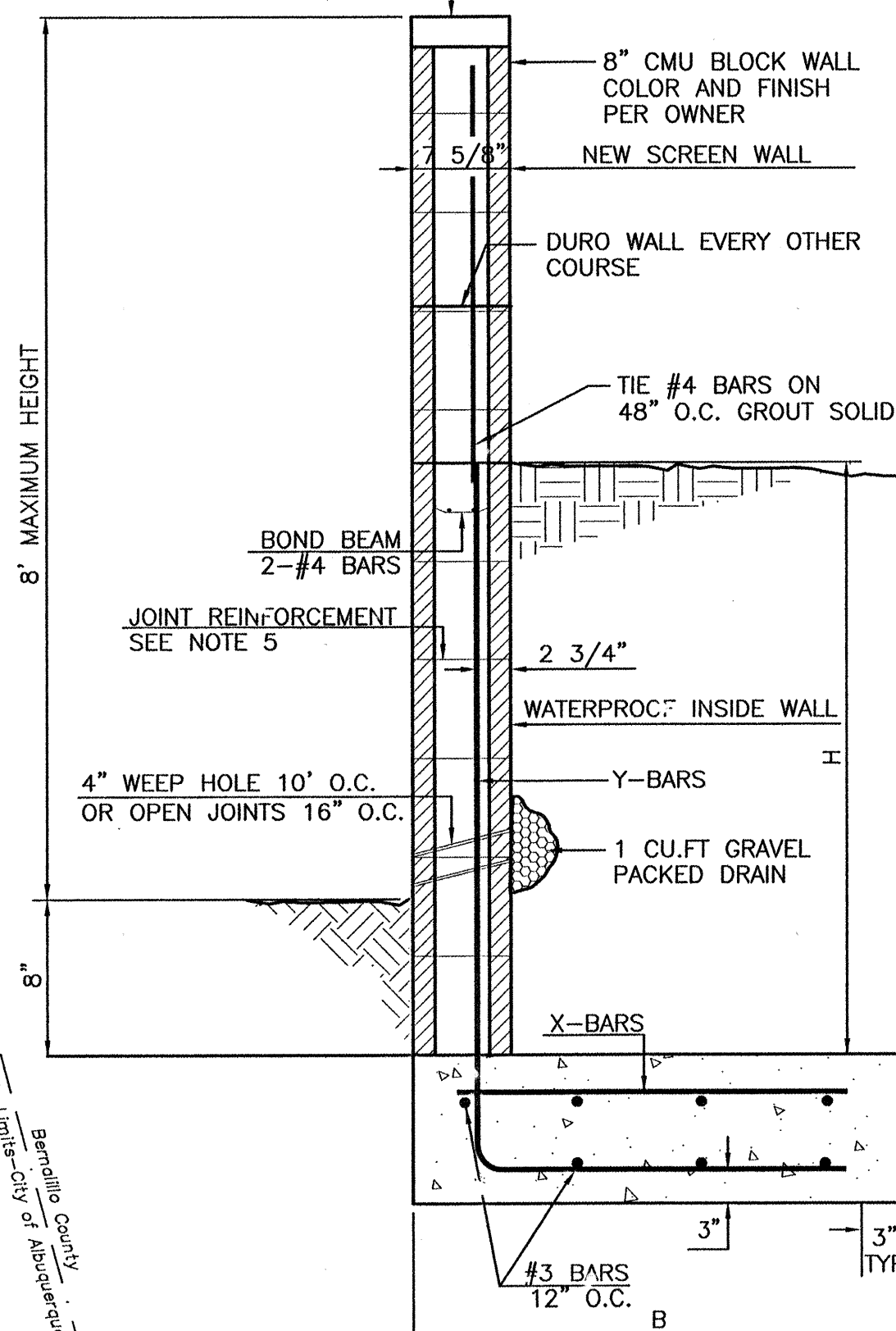
- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☒ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE PROJECT ENGINEER.
- ☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☒ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☐ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.



EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.

CEMENT MORTAR CAP OR OTHER
PER OWNER, COLOR TO MATCH
BUILDING



**L-FOOTING
RETAINING WALL DETAIL**
NTS

GENERAL NOTES:

1. ALL SPOT ELEVATIONS REPRESENT F.L.V. LINE ELEVATION UNLESS OTHERWISE NOTED.
2. CONSULT SOILS REPORT FOR ANY PAD PREPARATION REQUIREMENTS ON PAD DEVELOPMENT.
3. POSITIVE DRAINAGE AWAY FROM ALL HOUSE PADS WILL BE IN ACCORDANCE WITH SOILS REPORT. ANY CHANGE IN THE SLOPE AWAY FROM THE PAD LESS THAN 4% SHALL BE IMPERVIOUS TO INFILTRATION.

8 INCH REINFORCED CONCRETE MASONRY WALL
(FOR RETAINING PORTION ONLY)

H	B	T	Y-BARS	X-BARS
ft.-in.	ft.-in.	in.		
1'-4"	1'-9"	9"	#4 @ 24" O.C.	
2'-0"	2'-0"	9"	#4 @ 24" O.C.	
2'-8"	2'-6"	9"	#4 @ 24" O.C.	
3'-4"	2'-9"	12"	#4 @ 16" O.C.	#4 @ 16" O.C.
4'-0"	3'-3"	12"	#4 @ 16" O.C.	#4 @ 16" O.C.
4'-8"	4'-0"	12"	#4 @ 16" O.C.	#4 @ 16" O.C.
5'-4"	5'-0"	12"	#4 @ 8" O.C.	#4 @ 8" O.C.
6'-0"	5'-6"	12"	#4 @ 8" O.C.	#4 @ 8" O.C.

GENERAL NOTES:

1. ALL CONCRETE IS TO BE 3000 PSI @ 28 DAYS.
2. MINIMUM COMPACTION UNDER FOOTINGS IS TO BE 95% PER ASTM D 1557 FOR A DEPTH OF 12" MOISTURE CONTENT IS TO BE $\pm 2.0\%$.
3. BACK-FILL AGAINST WALLS IS TO BE HAND-PLACED AND COMPACTED.
4. ALL BARS ARE TO BE GRADE 60, ASTM 615.
5. TRUSS TYPE DUR-O-WALL EVERY OTHER COURSE.
6. USE EITHER EXPANSION JOINTS ON 20' CENTERS OR PILASTERS EVERY 12'.
7. 30 BAR DIAMETER LAPS TYPICAL.
8. DUR-O-WALL HORIZONTAL JOINT REINFORCEMENT 16" O.C.
9. OPEN JOINTS 16" O.C. TYPICAL AT FIRST COURSE.
10. OWNER TO SELECT MASONRY COLOR AND/OR FINISH.
11. SOLID MASONRY CAP COURSE TYPICAL.
12. WATER PROOF WALL.

CITY OF ALBUQUERQUE RESPONSIBLE
FOR CONSTRUCTION OF CURB &
GUTTER AND PAVEMENT IN THIS AREA
AND ALL OF THE STORM SEWER
IMPROVEMENTS

CITY OF ALBUQUERQUE RESPONSIBLE
FOR CONSTRUCTION OF CURB &
GUTTER AND PAVEMENT IN THIS AREA

DRAINAGE CERT. WORK BY OTHERS
12/28/01

1. I, RONALD R. BOHANNAN, N.M.P.S. #268, OF THE FIRM TIERRA WEST, L.L.C., HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 12/20/01. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY RUSS P. HUGG, N.M.P.S. #250, OF THE FIRM, SURVITEK.

I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 1/12/02 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR FINAL CERTIFICATION OF DRAINAGE AS REQUESTED BY CARLOS MONTOYA.

NOTE EXCEPTIONS HERE: NO EXCEPTIONS TAKEN

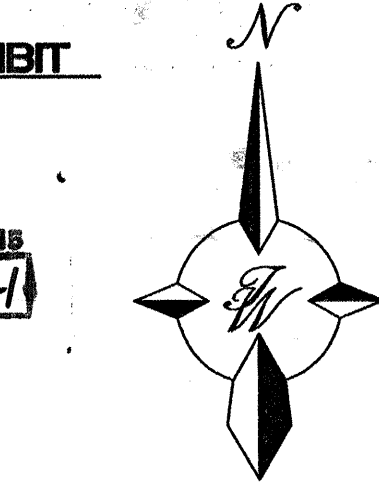
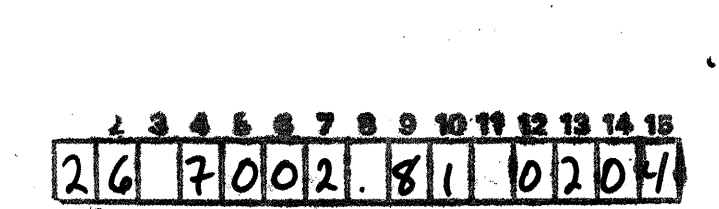
THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THE RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

N.M.P.S.

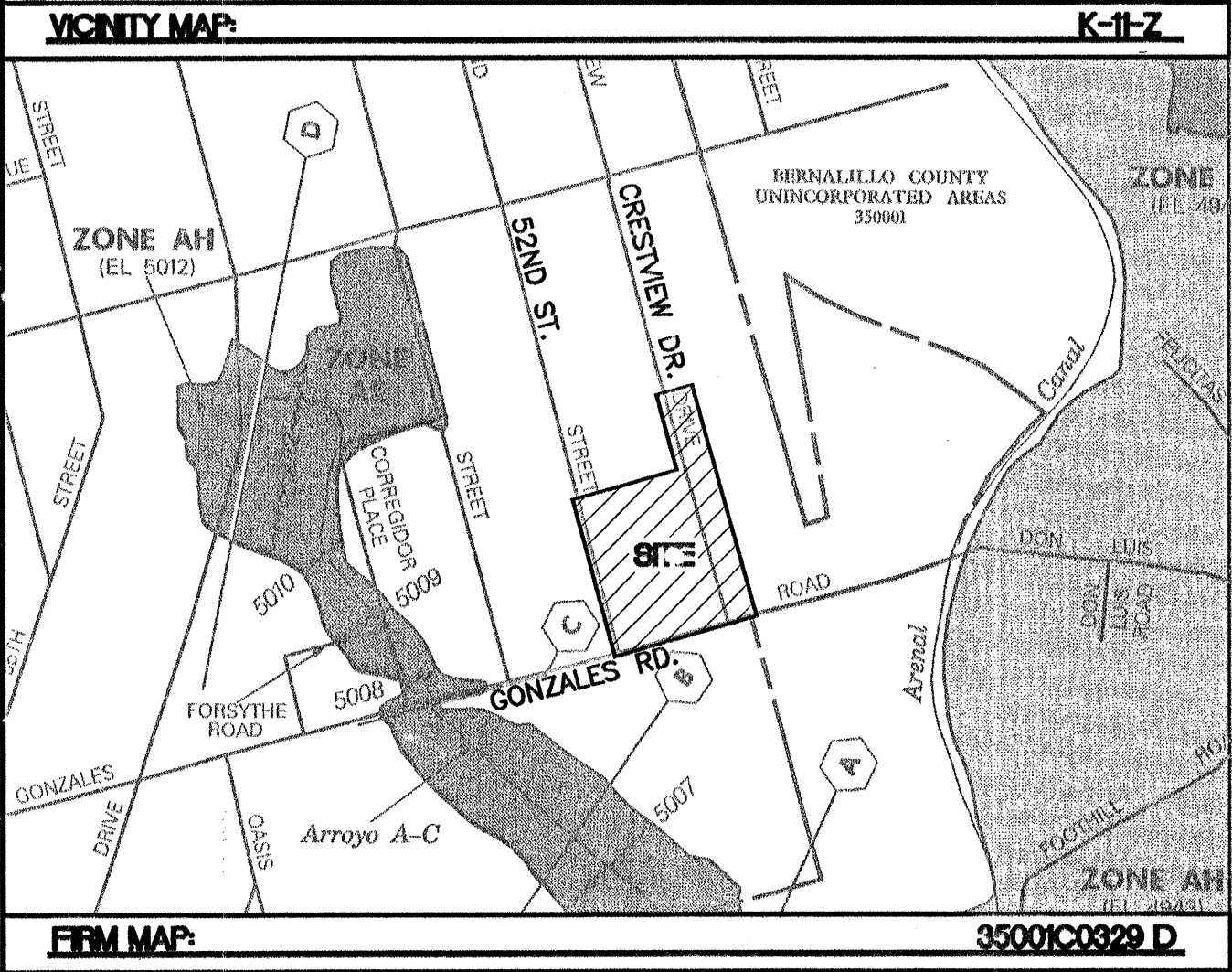
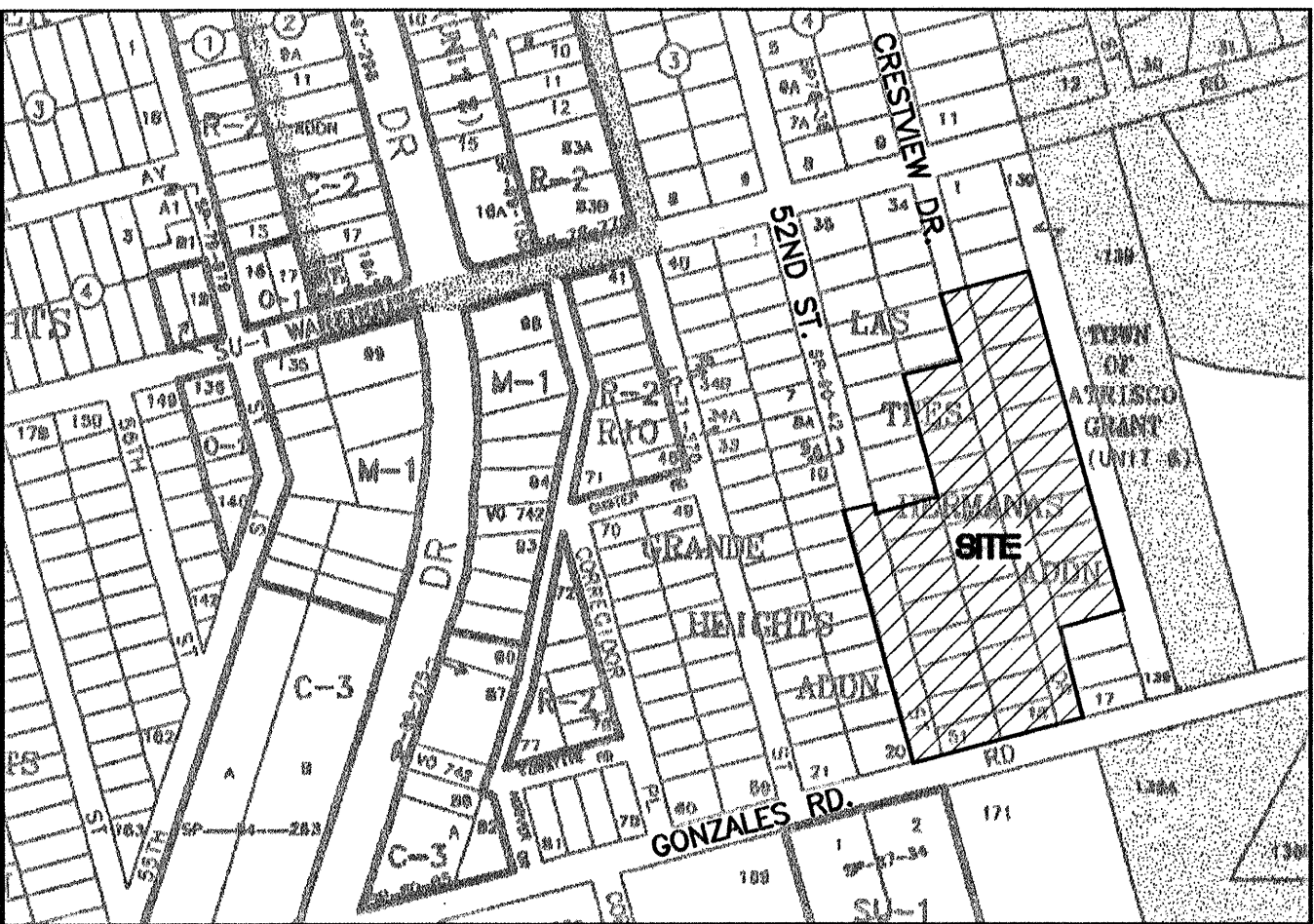
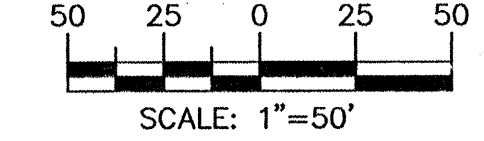
DATE: 1/12/02

CAUTION:
EXISTING UTILITIES ARE NOT SHOWN.
IT SHALL BE THE SOLE RESPONSIBILITY
OF THE CONTRACTOR TO CONDUCT ALL
NECESSARY FIELD INVESTIGATIONS PRIOR
TO ANY EXCAVATION TO DETERMINE THE
ACTUAL LOCATION OF UTILITIES & OTHER
IMPROVEMENTS.

PUBLIC IMPROVEMENTS EXHIBIT



GRAPHIC SCALE



LEGEND

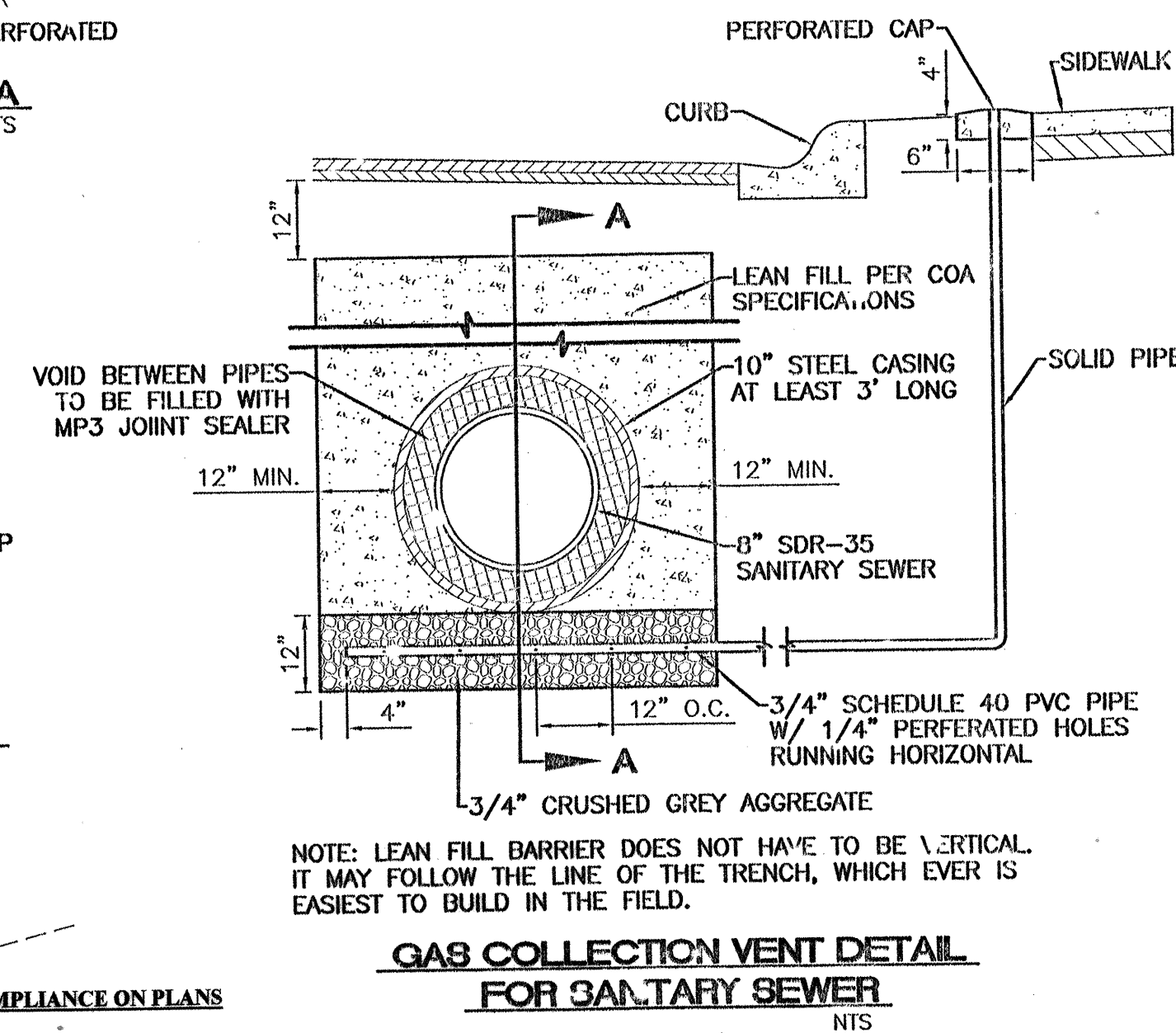
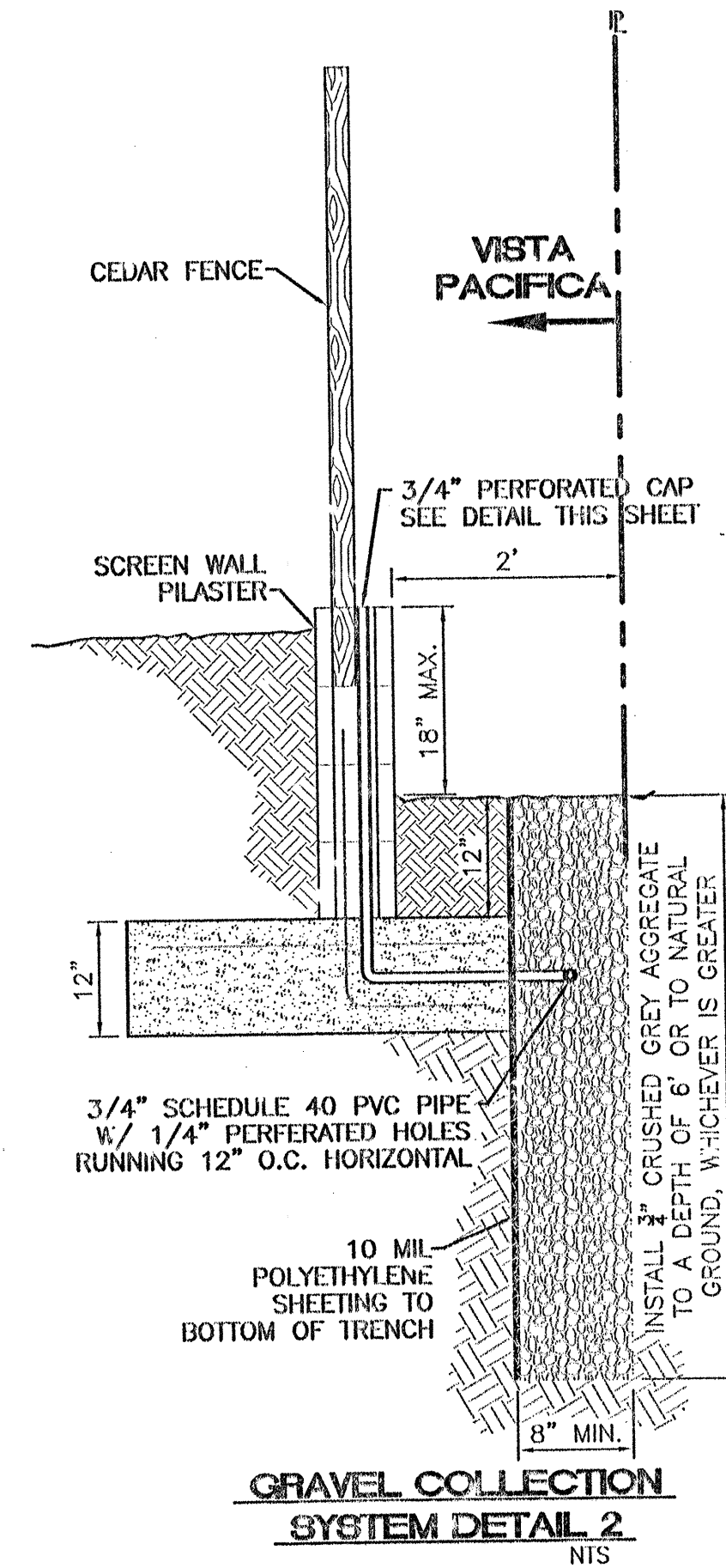
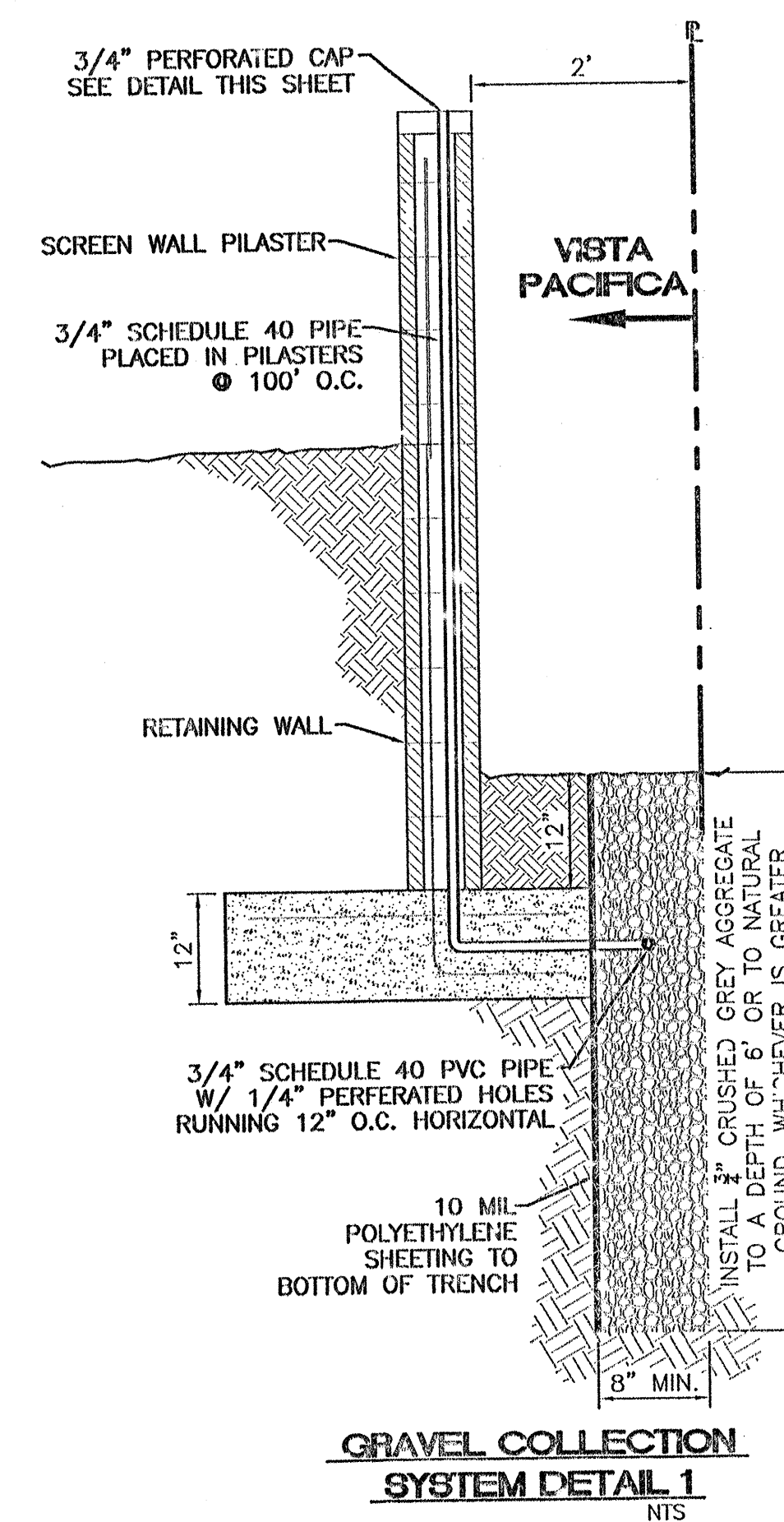
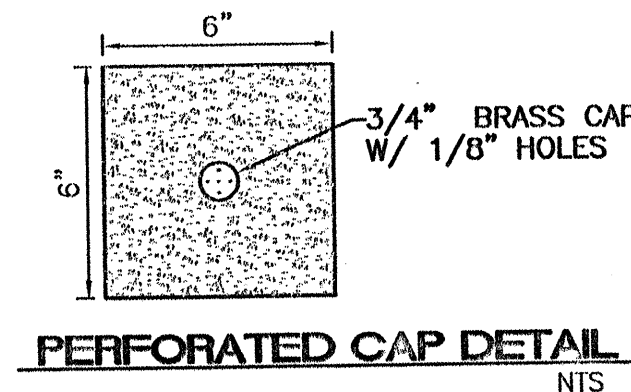
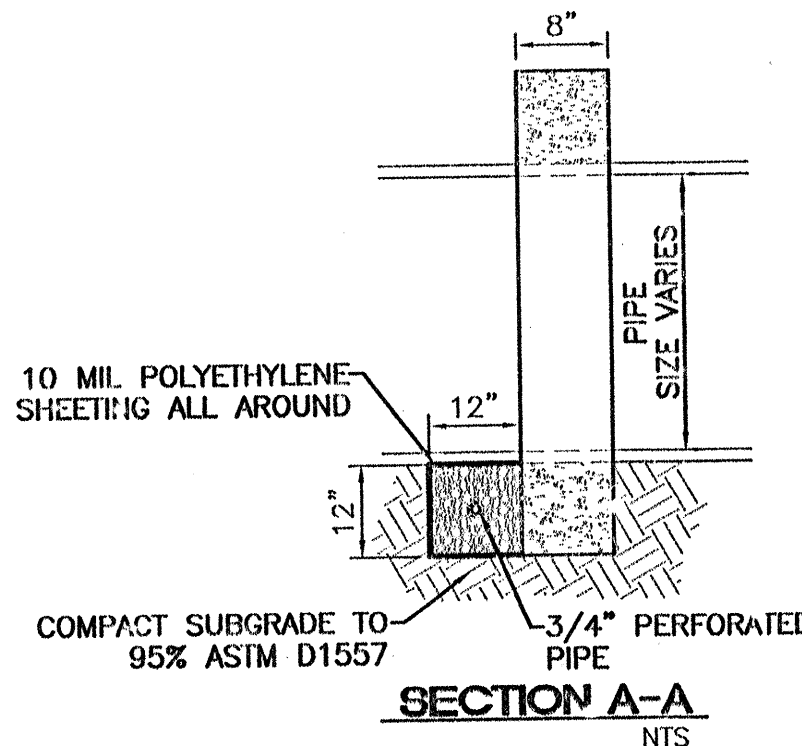
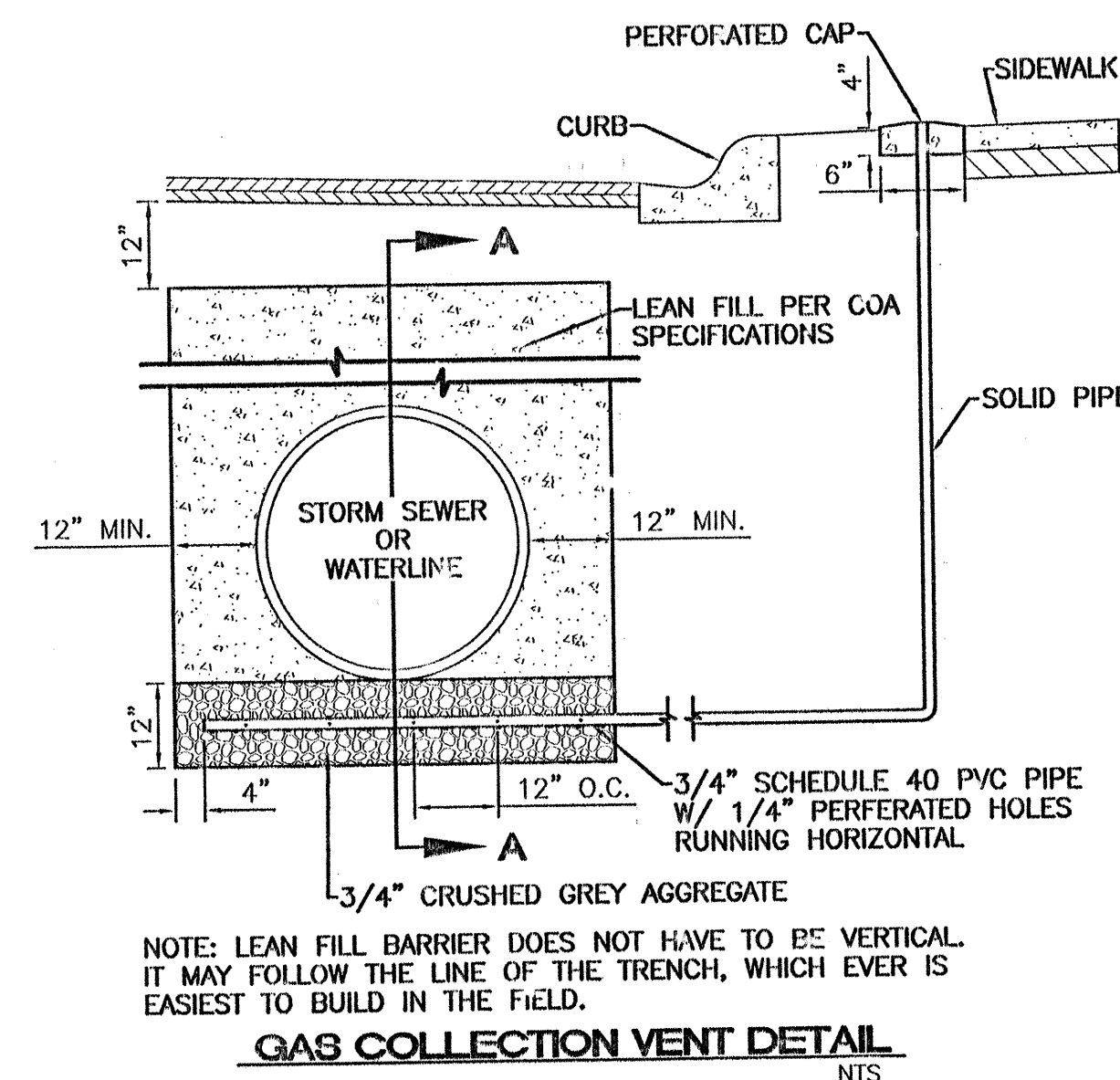
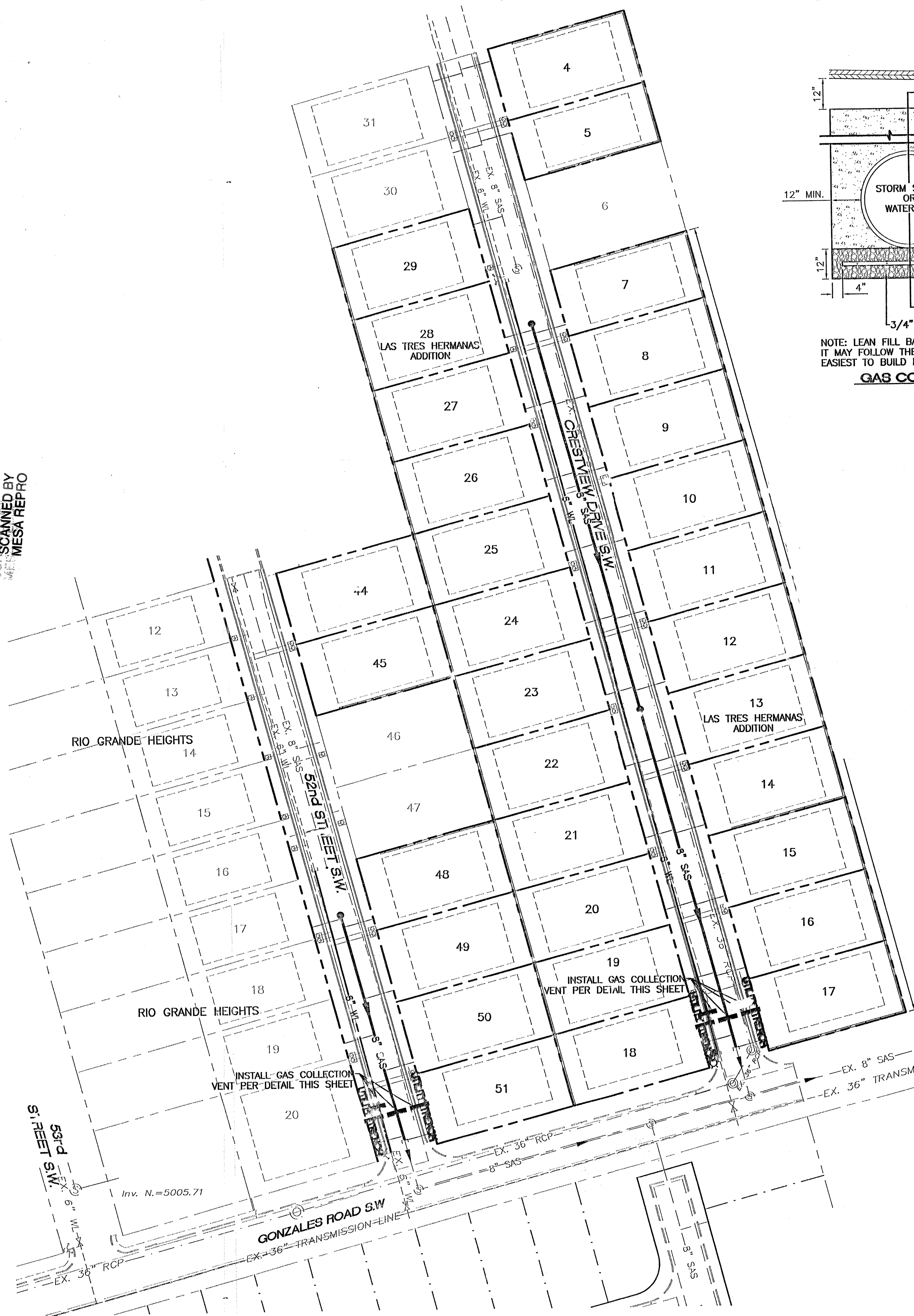
- EXISTING STORM SEWER MANHOLE
- EXISTING STORM SEWER INLET
- EXISTING STORM SEWER LINE
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- BOUNDARY LINE
- EXISTING BOUNDARY LINE
- EASEMENT
- PROPOSED SIDEWALK
- EXISTING SIDEWALK
- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- FLOW ARROW
- SLOPE TIE
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- CENTERLINE
- LOT LINES
- EXISTING LOT LINES
- SETBACK LINE

ROUGH GRADING APPROVAL

DATE

ENGINEER'S SEAL RONALD R. BOHANNAN P.E. #7868	CRESTVIEW AND GONZALES GRADING AND DRAINAGE PLAN	DRAWN BY JDN DATE 01-20-03 21117GR31A.DWG
	TIERRA WEST, L.L.C. 8509 JEFFERSON NE ALBUQUERQUE, NEW MEXICO 87113 (505)858-3100	SHEET # 2 OF 12
	JOB # 21117	
	700281	

SCANNED BY
MESA REPRO



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

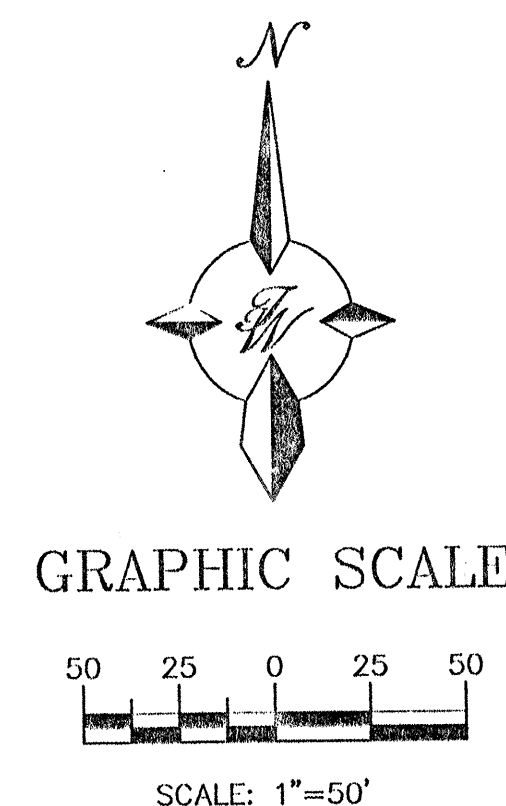
I, Ronald R. Bohannon, of the firm of Terra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Russ P. Hugg of Terra West LLC, NMP's number 9750.



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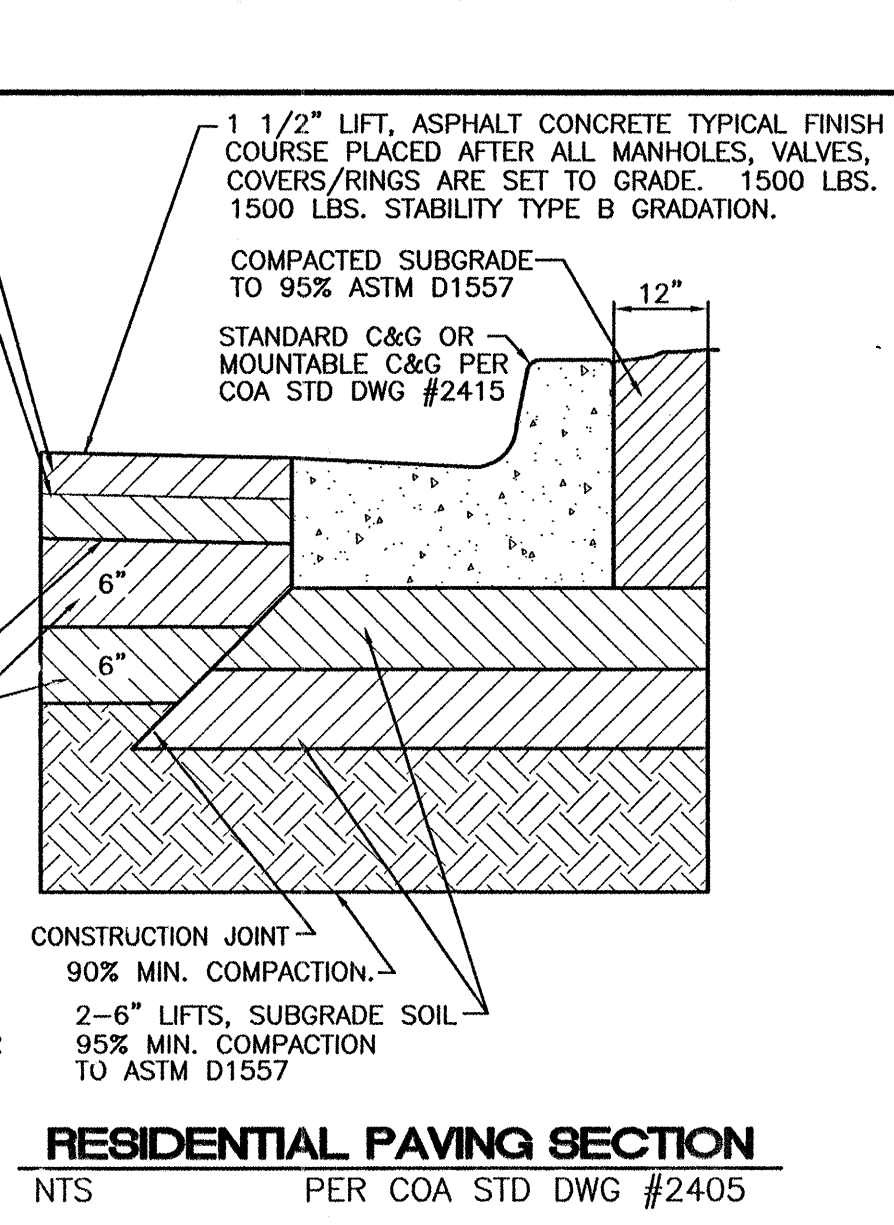
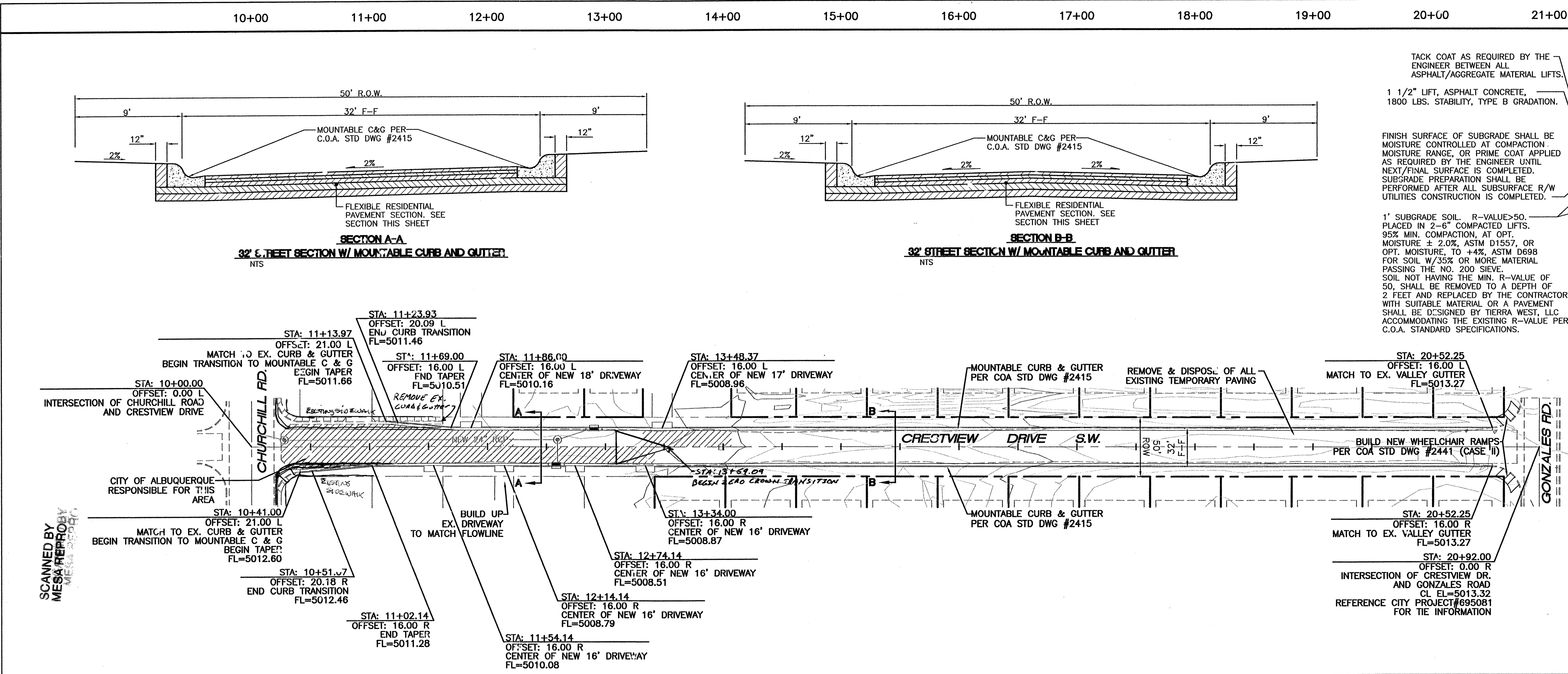
GENERAL NOTES:

- THE SUBJECT PROPERTY IS LOCATED NEAR A FORMER LANDFILL. DUE TO THE SUBJECT PROPERTY BEING NEAR, A FORMER LANDFILL, CERTAIN PRECAUTIONARY MEASURES MAY NEED TO BE TAKEN TO ENSURE THE HEALTH AND SAFETY OF THE PUBLIC. RECOMMENDATIONS MADE BY A PROFESSIONAL ENGINEER WITH EXPERTISE IN LANDFILLS AND LANDFILL GAS ISSUES (AS REQUIRED BY THE MOST CURRENT VERSION OF THE "INTERIM GUIDELINES FOR DEVELOPMENT WITHIN 1000 FEET OF LANDFILLS") SHALL BE CONSULTED PRIOR TO DEVELOPMENT OF THE SITE.
- DURING CONSTRUCTION, ALL PRECAUTION SHALL BE TAKEN TO AVOID RISK TO WORKERS. PERSONNEL ARE TO BE MONITORED OR AVOID ENTRY INTO THE TRENCH AREA.



TIERRA WEST, LLC
8509 JEFFERSON NE
ALBUQUERQUE, NEW MEXICO 87113
(505)858-3100

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: CRESTVIEW AND GONZALES GAS TREATMENT PLAN	
DESIGN REVIEW COMMITTEE APR - 2003	CITY ENGINEER APPROVAL APR - 2003
CITY PROJECT NO. 700281	ZONE-MAP NO. K-11-Z
SHEET 3 OF 12	



TACK COAT AS REQUIRED BY THE ENGINEER BETWEEN ALL ASPHALT/AGGREGATE MATERIAL LIFTS.

1 1/2" LIFT, ASPHALT CONCRETE, 1800 LBS. STABILITY, TYPE B GRADATION.

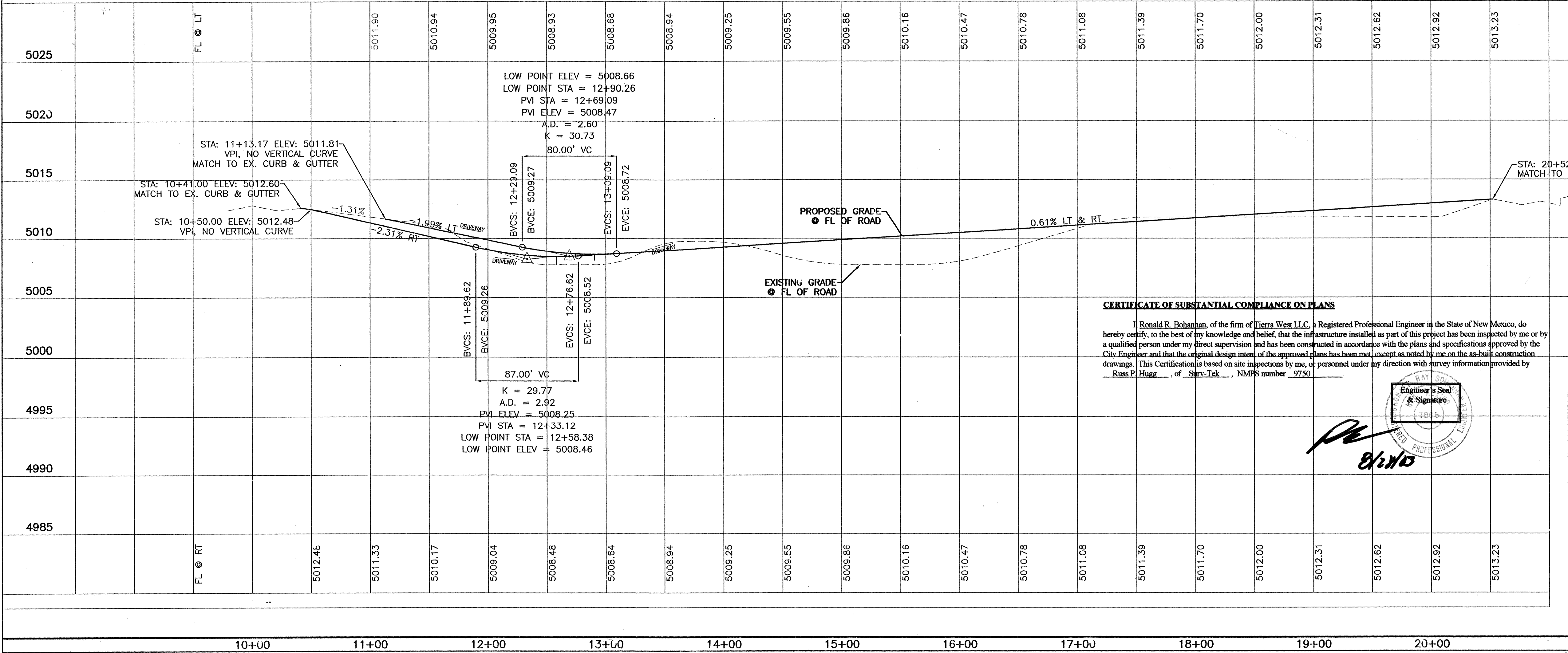
FINISH SURFACE OF SUBGRADE SHALL BE MOISTURE CONTROLLED AT COMPACTION. MOISTURE RANGE, OR PRIME COAT APPLIED AS REQUIRED BY THE ENGINEER UNTIL NEXT/FINAL SURFACE IS COMPLETED. SUBGRADE PREPARATION SHALL BE PERFORMED AFTER ALL SUBSURFACE R/W UTILITIES CONSTRUCTION IS COMPLETED.

1' SUBGRADE SOIL, R-VALUE > 50, PLACED IN 2-6" COMPACTED LIFTS. 95% MIN. COMPACTION, AT OPT. MOISTURE + 2.0% ASTM D1557, OR OPT. MOISTURE, TO +4%, ASTM D698 FOR SOIL W/35% OR MORE MATERIAL PASSING THE NO. 200 SIEVE. SOIL NOT HAVING THE MIN. R-VALUE OF 50, SHALL BE REMOVED TO A DEPTH OF 2 FEET AND REPLACED BY THE CONTRACTOR WITH SUITABLE MATERIAL OR A PAVEMENT SHALL BE DESIGNED BY TIERRA WEST, LLC ACCOMMODATING THE EXISTING R-VALUE PER C.O.A. STANDARD SPECIFICATIONS.

CONSTRUCTION JOINT - 90% MIN. COMPACTION.

2-6" LIFTS, SUBGRADE SOIL 95% MIN. COMPACTION TO ASTM D1557

RESIDENTIAL PAVING SECTION
NTS PER COA STD DWG #2405



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

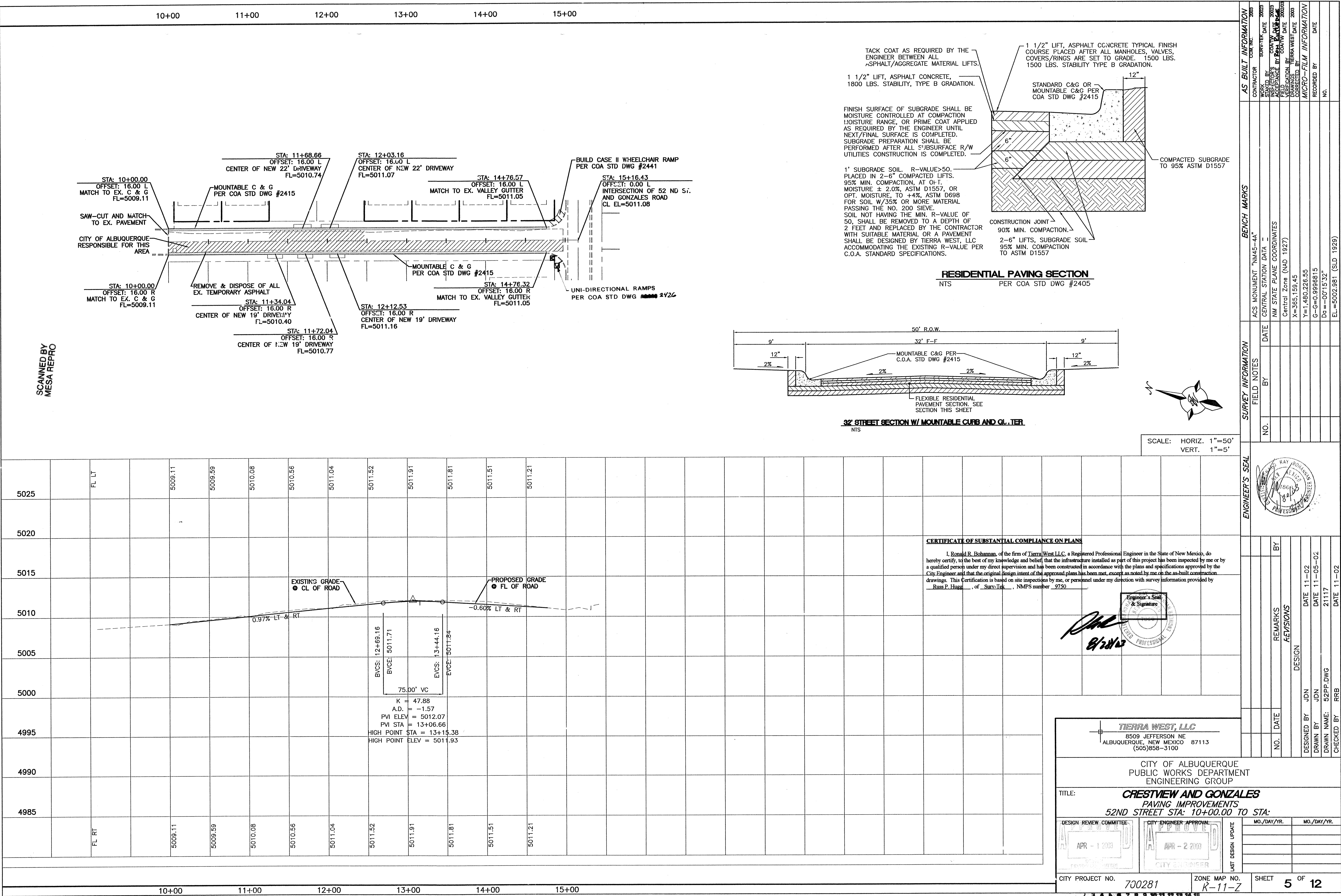
I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Russ P. Hugg, of Surv-Tek, NMPS number 9750.

Engineer's Seal & Signature

TIERRA WEST, LLC
8509 JEFFERSON NE
ALBUQUERQUE, NEW MEXICO 87113
(505)858-3100

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: CRESTVIEW AND GONZALES PAVING IMPROVEMENTS	
CRESTVIEW DR. STA: 10+00.00 TO STA: 18+69.97	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
APPROVED APR - 1 2003	APPROVED APR - 2 2003
CITY PROJECT NO. 700281	ZONE MAP NO. K-11-Z
SHEET 4 OF 12	

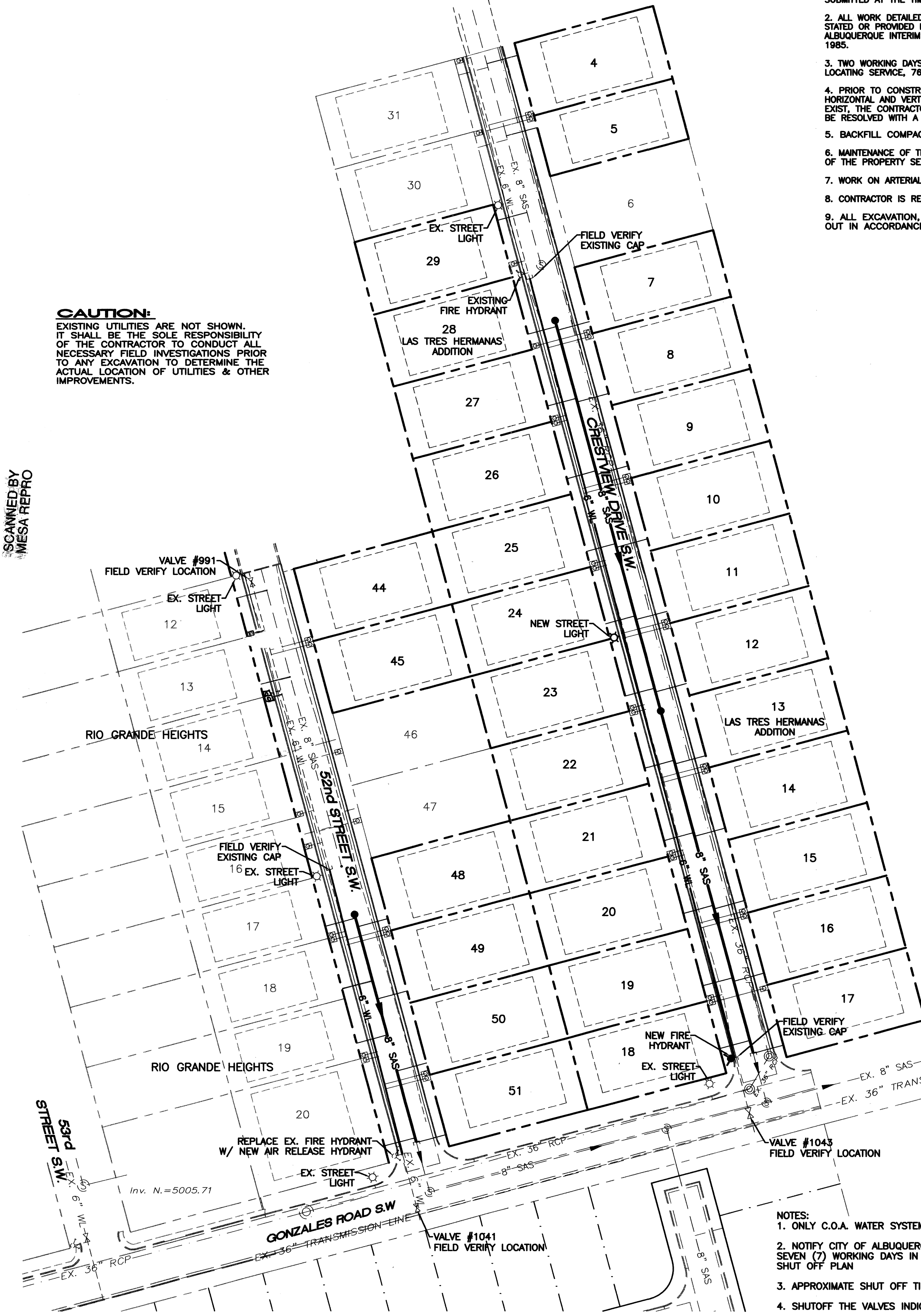
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	CCM INC.	AS MONUMENT	"NM45-4A"	FIELD NOTES	DATE	NO.	REMARKS
INSPECTOR	BY DATE	CENTRAL STATION DATA		BY			
VERIFICATION	DATE	NM STATE PLANE COORDINATES					
VERIFICATION	DATE	Central Zone (NAD 1927)					
VERIFICATION	DATE	X=365,159.4'					
VERIFICATION	DATE	Y=1,480,226.55					
VERIFICATION	DATE	G-C=0.9998815					
VERIFICATION	DATE	Da=-00'15"32"					
VERIFICATION	DATE	EL=5002.981' (SLD 1929)					



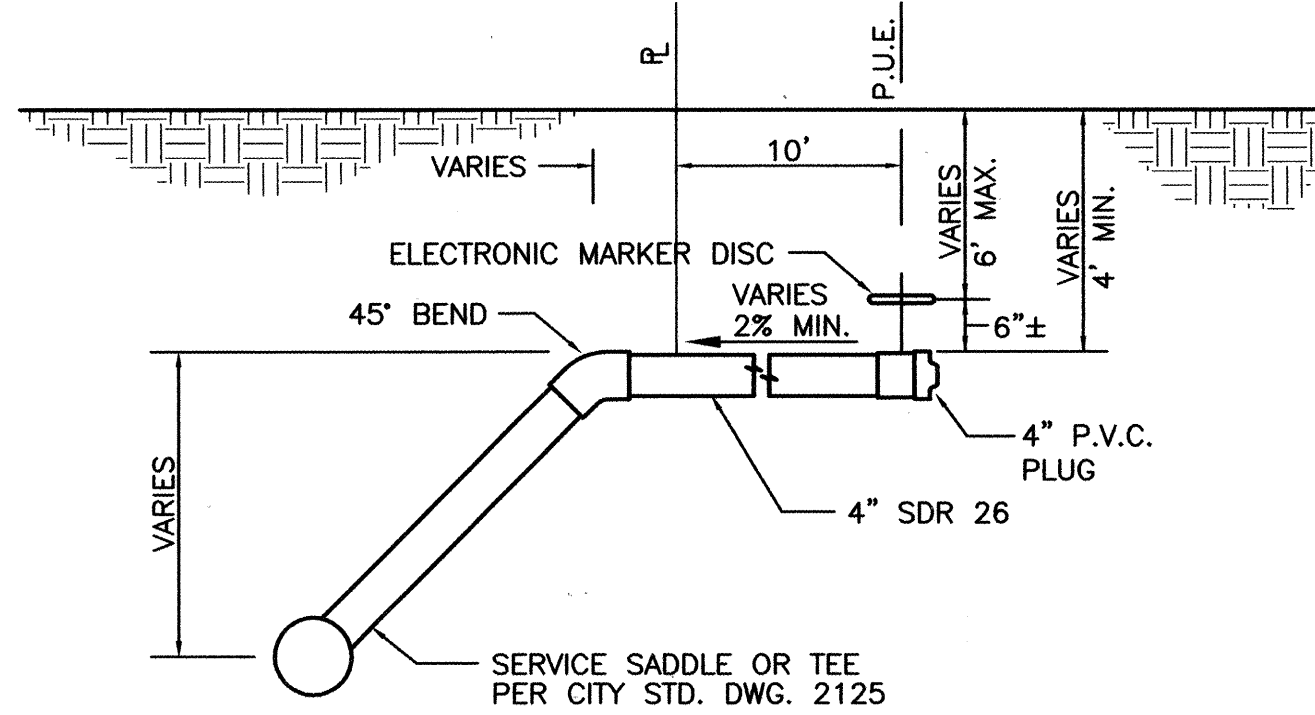
SCANNED BY
MESA REPRO

SCANNED BY
MESA REPRO

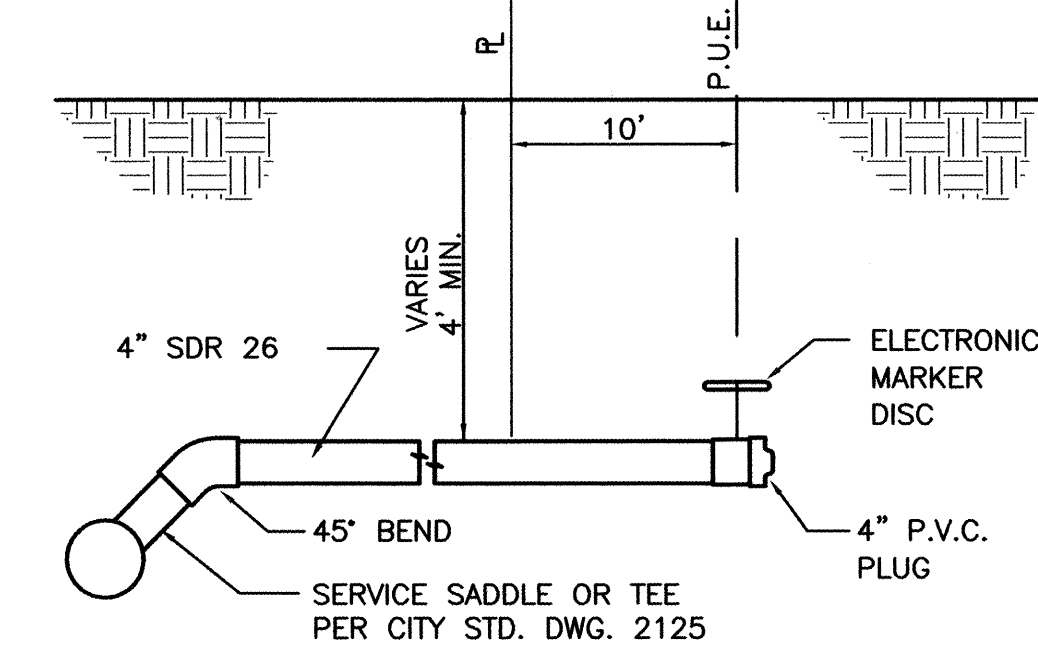
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TO ANY EXCAVATION TO DETERMINE THE
ACTUAL LOCATION OF UTILITIES & OTHER
IMPROVEMENTS.



- NOTICE TO CONTRACTORS**
1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
 2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
 3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 785-1234, FOR LOCATION OF EXISTING UTILITIES.
 4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
 5. BACKFILL COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE.
 6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
 7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.
 8. CONTRACTOR IS RESPONSIBLE TO PROVIDE UTILITY STUBS 5' FROM BUILDING
 9. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.



**SANITARY SERVICE CONNECTION
FOR DEEP SANITARY SEWERS**
NTS



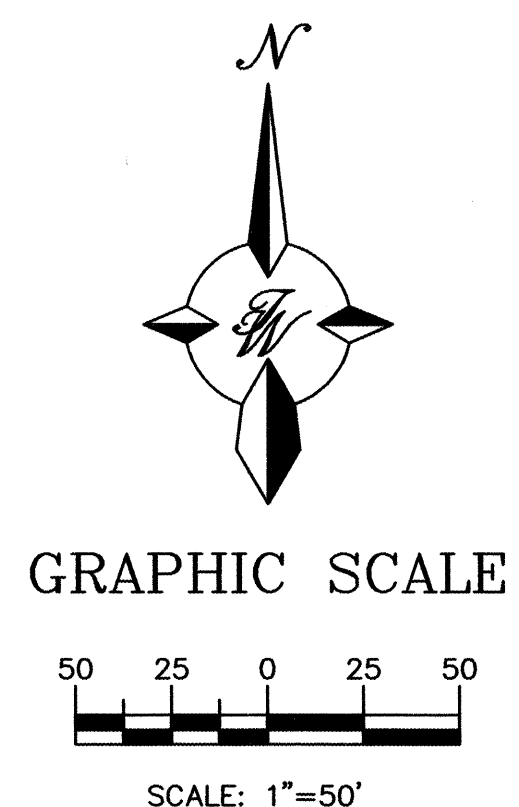
SANITARY SYSTEM SERVICE CONNECTION
NTS

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

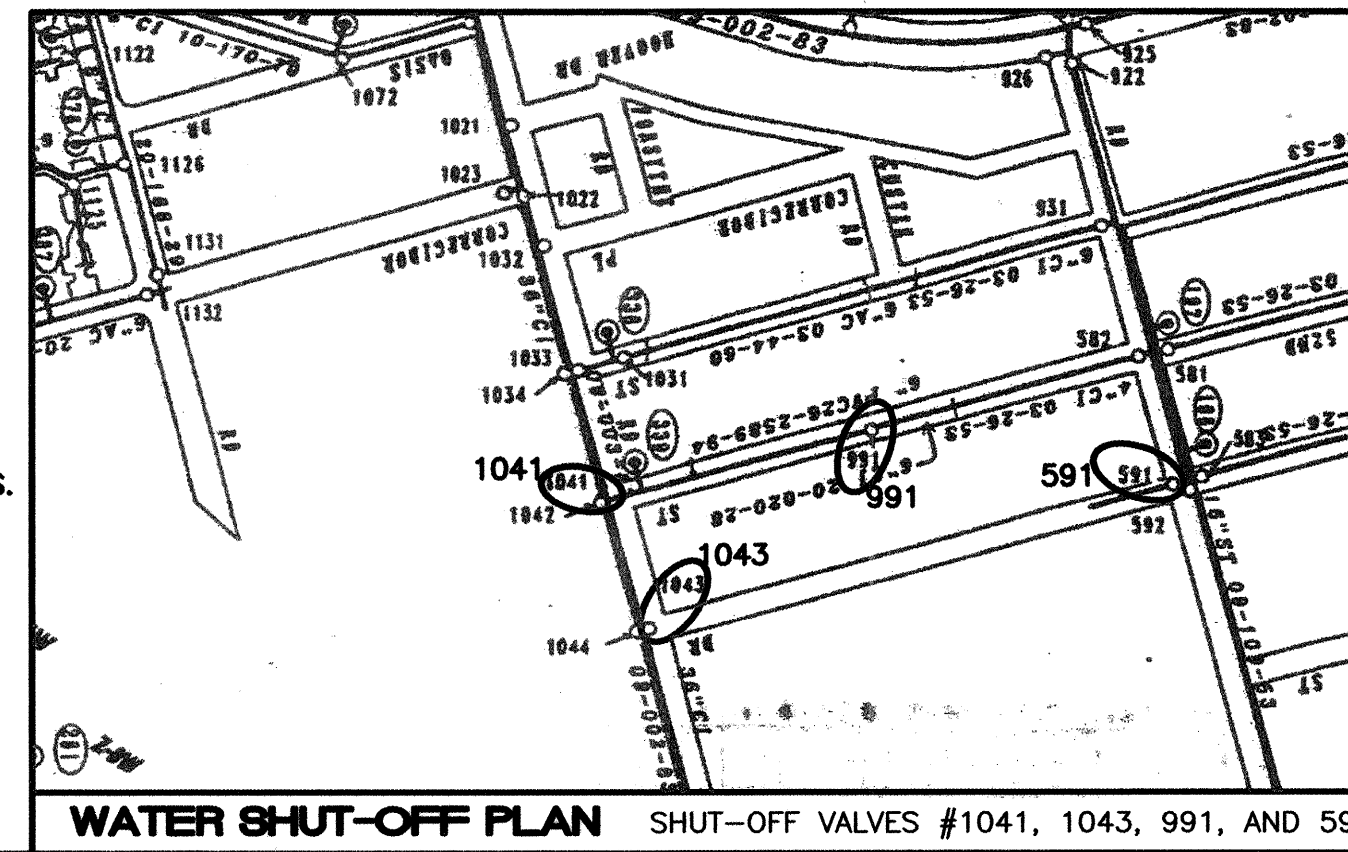
I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Russ P. Hugg, of Surv-Tek, NMPS number 9750.

Engineer's Seal
& Signature
RONALD R. BOHANNON
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
No. 12345
Exp. 12/31/2008

- LEGEND**
- ⊙ EXISTING SD MANHOLE
 - ⊙ EXISTING SAS MANHOLE
 - ⊙ EXISTING METER
 - ⊙ EXISTING VALVE W/BOX
 - ⊙ EXISTING FIRE HYDRANT
 - EX. 8" SAS --- EXISTING SANITARY SEWER LINE
 - EX. 16" WL --- EXISTING WATER LINE
 - EX. 16" SCL --- EXISTING STORM SEWER LINE
 - === EXISTING CURB & GUTTER
 - 4" SD --- PROPOSED STORM SEWER LINE
 - 8" SAS --- PROPOSED SANITARY SEWER LINE
 - 8" WL --- PROPOSED WATERLINE
 - BOUNDARY LINE
 - EASEMENT
 - ⊙ EXISTING STREET LIGHT
 - ⊙ PROPOSED STREET LIGHT



- NOTES:**
1. ONLY C.O.A. WATER SYSTEMS PERSONNEL ARE AUTHORIZED TO OPERATE VALVES.
 2. NOTIFY CITY OF ALBUQUERQUE, WATER SYSTEMS DIVISION (PHONE 857-8200) SEVEN (7) WORKING DAYS IN ADVANCE OF NEEDING EXECUTION OF THE WATER SHUT OFF PLAN
 3. APPROXIMATE SHUT OFF TIME WILL BE 24 HOURS.
 4. SHUTOFF THE VALVES INDICATED IN THE PLAN.



Tierra West, LLC
8509 JEFFERSON NE
ALBUQUERQUE, NEW MEXICO 87113
(505)858-3100

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

**CRESTVIEW AND GONZALES
MASTER UTILITY PLAN**

DESIGN REVIEW COMMITTEE: APPROVED APR - 1 2003
CITY ENGINEER APPROVAL: APPROVED APR - 2 2003
CITY ENGINEER

CITY PROJECT NO. 700281
ZONE MAP NO. K-11-Z

DESIGNED BY JDN DATE 01-03
DRAWN BY JDN DATE 01-08-03
DRAWN NAME: 21117UT31.DWG
CHECKED BY: RRB DATE 01-03

MO./DAY/YR. SHEET 6 OF 12

AS BUILT INFORMATION

CONTRACTOR: CON. INC.
SURVEYED DATE: 2003
STAKED BY: JDN
ACCEPTANCE BY: JDN
FIELD LOCATION BY: JDN
DRAWINGS BY: JDN
CORRECTED BY: JDN
MICRO-FILM INFORMATION: RECORDED BY: JDN
DATE: 2003
NO.:

BENCH MARKS

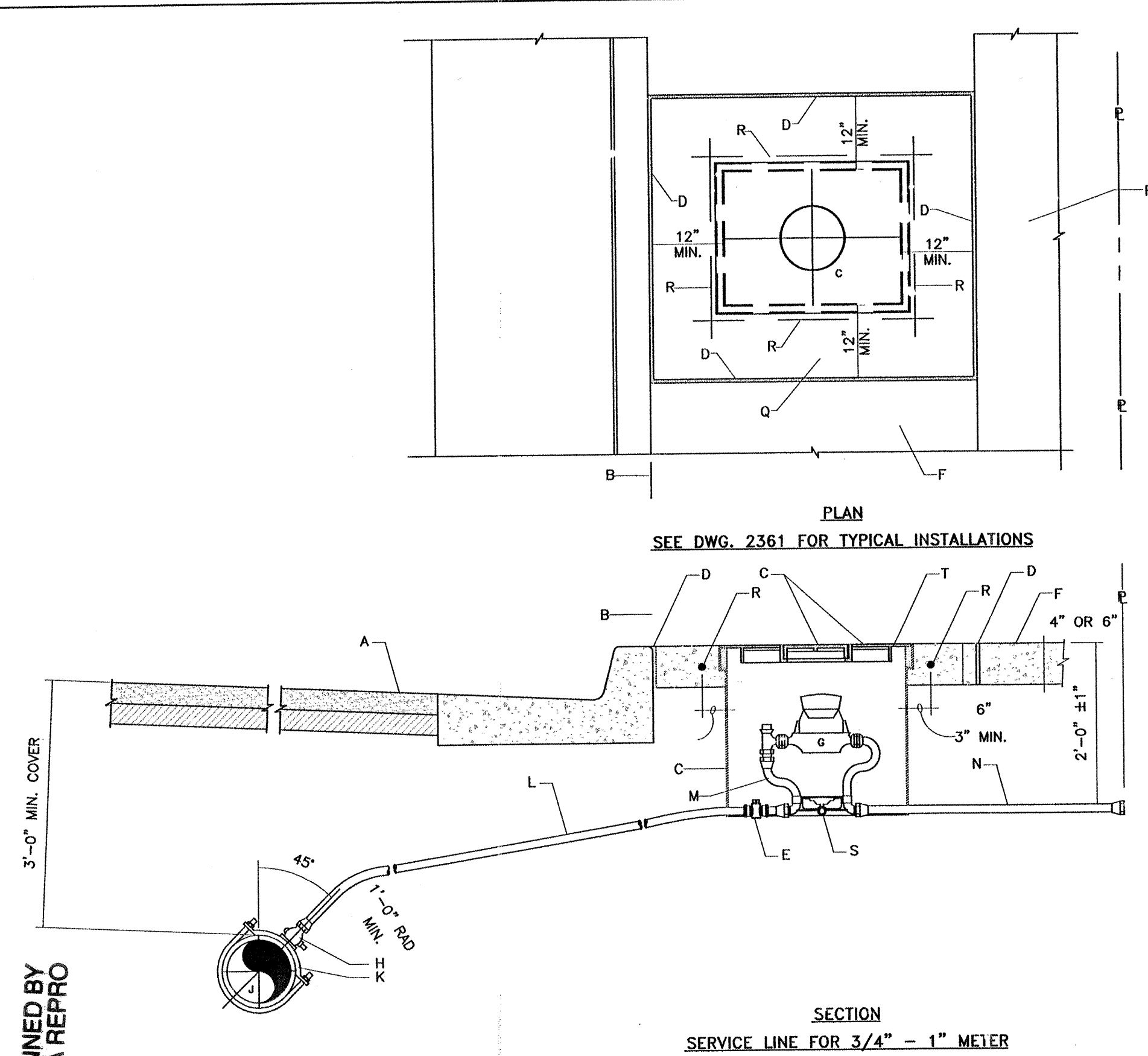
ACS MONUMENT "NM45-4A"
CENTRAL STATION DATA: NM STATE PLANE COORDINATES
Central Zone (NAD 1927)
X=365,159.45
Y=1,480,226.55
Do=0015'32"
EL=5002.981' (SLD 1929)

SURVEY INFORMATION

FIELD NOTES: NO. BY DATE

ENGINEER'S SEAL

BY: JDN
REMARKS: REVISIONS
DATE: 01-03
DATE: 01-08-03
DATE: 21117
DATE: 01-03



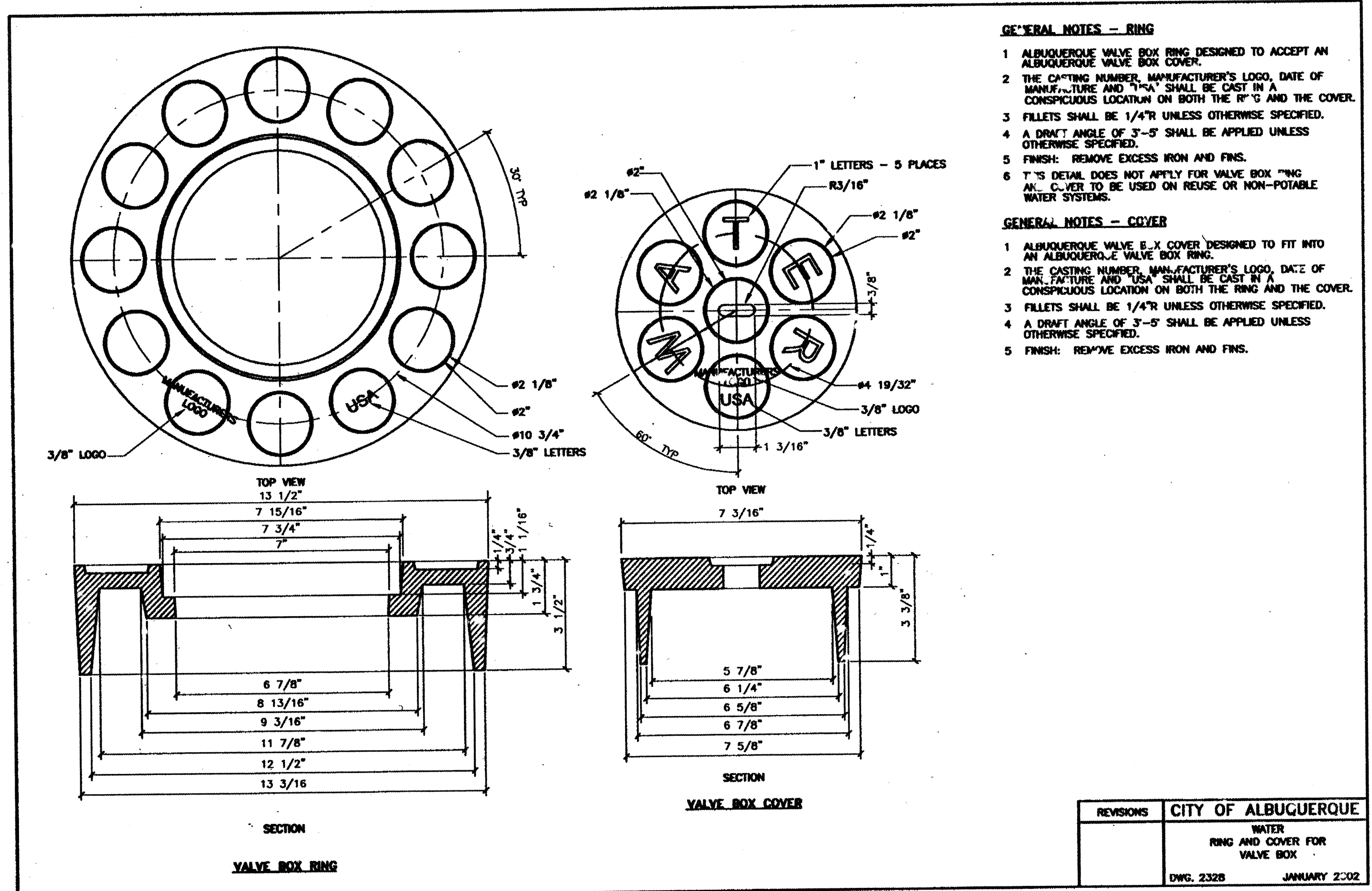
GENERAL NOTES:

- 1 THE METER SHALL BE SET UTILIZING A COPPER-SETTER. COPPER-SETTER HEIGHT 10" FOR 1" METER. 7" FOR 3/4" METER.
- 2 THE VALVE AND METER REGISTER BOX SHALL BE LOCATED UNDER THE LID OPENING. WHERE TWO METERS ARE TO BE INSTALLED IN A SINGLE METER BOX, THE METER REGISTERS SHALL BE WITHIN READING RANGE OF THE LID OPENING.
- 3 METER BOX LOCATION TO CONFORM TO DWG. 2361.
- 4 WHEN CONTRACTOR DOES NOT INSTALL METER, CONTRACTOR SHALL PROVIDE REMOVABLE PLUGS FOR END OF COPPER-SETTER.
- 5 EXISTING CONCRETE TO BE SAWCUT.

CONSTRUCTION NOTES:

- A STREET SURFACE.
- B BACK OF CURB.
- C CAST IRON METER BOX, COVER AND LID. SEE DWG. 2368 OR 2369.
- D 1/2" EXPANSION JOINT.
- E CURB STOP, LOCATE INSIDE METER BOX.
- F SIDEWALK OR DRIVEPAD.
- G METER. TOP OF METER TO BE 12"-18" BELOW COVER.
- H CORP STOP.
- J MAIN WATER LINE.
- K TAPPING SADDLE.
- L COPPER SERVICE LINE.
- M COPPER SETTER.
- N TAILPIECE TO PROPERTY LINE WITH INSTA-TITE I.P.T. CAPPED FITTING.
- Q CONCRETE PAD REQUIRED IN ALL AREAS.
- R #4 REBAR CONTINUOUS ALL AROUND METER BOX.
- S STABILIZER BAR. 12" LONG X 1/2" DIAMETER GALVANIZED STEEL PIPE.
- T METER BOX LID SHALL BE FLUSH WITH SURROUNDING SIDEWALK.

REVISIONS	CITY OF ALBUQUERQUE
	WATER
	3/4" - 1" METERED SERVICE LINE INSTALLATION
	DWG. 2362 MAR 2001

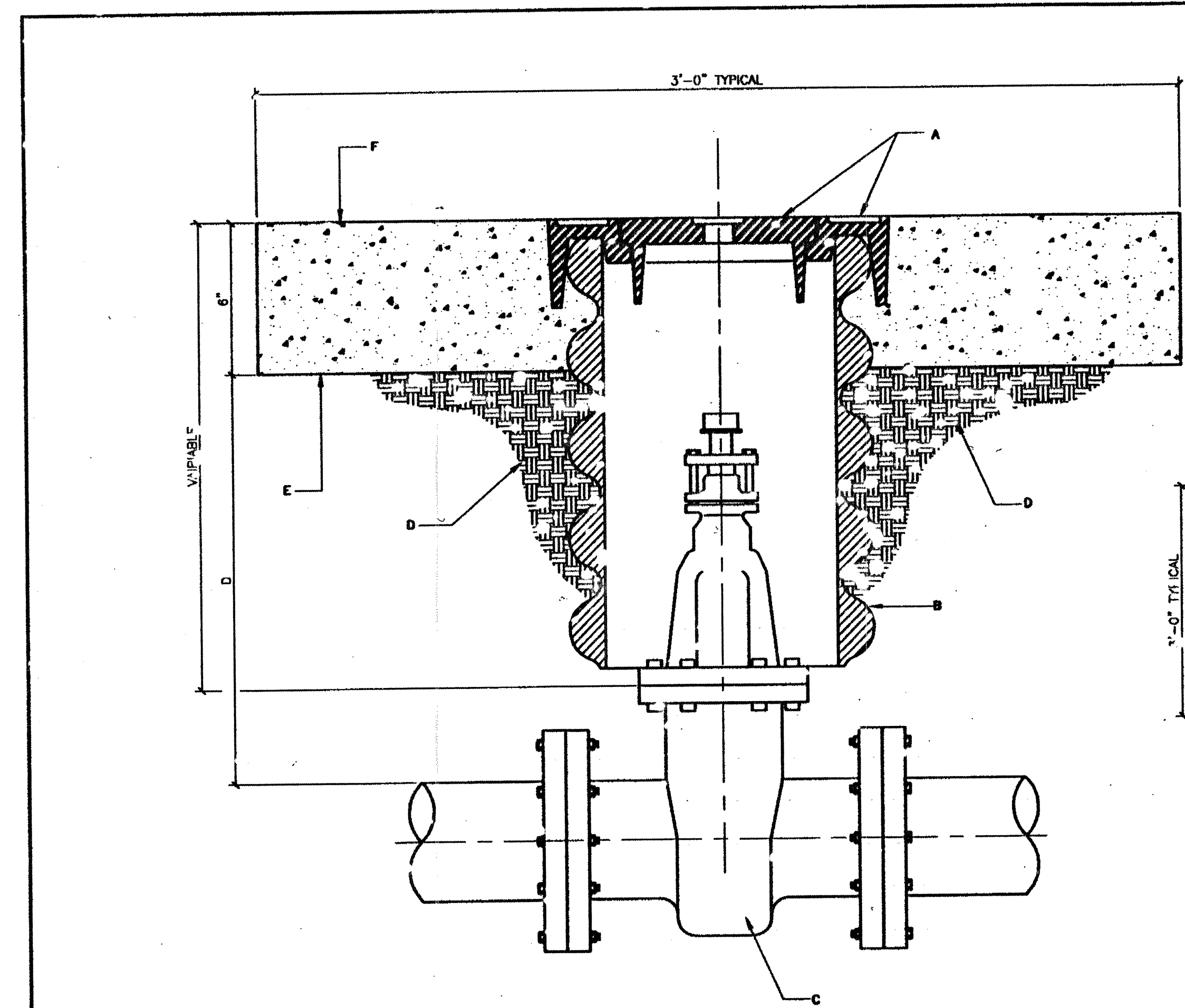


GENERAL NOTES - RING

- 1 ALBUQUERQUE VALVE BOX RING DESIGNED TO ACCEPT AN ALBUQUERQUE VALVE BOX COVER.
- 2 THE CASTING NUMBER, MANUFACTURER'S LOGO, DATE OF MANUFACTURE AND "USA" SHALL BE CAST IN A CONSPICUOUS LOCATION ON BOTH THE RING AND THE COVER.
- 3 FILLETS SHALL BE 1/4" UNLESS OTHERWISE SPECIFIED.
- 4 A DRAFT ANGLE OF 3-5° SHALL BE APPLIED UNLESS OTHERWISE SPECIFIED.
- 5 FINISH: REMOVE EXCESS IRON AND FIN.
- 6 T'S DETAIL DOES NOT APPLY FOR VALVE BOX "RING". ALL COVER TO BE USED ON REUSE OR NON-POTABLE WATER SYSTEMS.

GENERAL NOTES - COVER

- 1 ALBUQUERQUE VALVE BOX COVER DESIGNED TO FIT INTO AN ALBUQUERQUE VALVE BOX RING.
- 2 THE CASTING NUMBER, MANUFACTURER'S LOGO, DATE OF MANUFACTURE AND "USA" SHALL BE CAST IN A CONSPICUOUS LOCATION ON BOTH THE RING AND THE COVER.
- 3 FILLETS SHALL BE 1/4" UNLESS OTHERWISE SPECIFIED.
- 4 A DRAFT ANGLE OF 3-5° SHALL BE APPLIED UNLESS OTHERWISE SPECIFIED.
- 5 FINISH: REMOVE EXCESS IRON AND FIN.



GENERAL NOTES:

- A VALVE BOX RING AND COVER. SEE DWG. 2328.
- B 10" DIAMETER RIPPED OR CORRUGATED PVC OR PE PIPE WITH SMOOTH INTERIOR.
- C NEW OR EXISTING VALVE.
- D COMPACTED BACKFILL, 50% OR BASE COURSE MATERIAL (50% COMPACTION). SEE SECTION 701.
- E 3'-0" X 3'-0" OCTAGONAL CONCRETE COLLAR. COLLAR IS TO BE TAPERED IN UNPAVED ROADWAYS AND FLUSH IN PAVED ROADWAY. CONCRETE STRENGTH SHALL BE PER SECTION 101 OF THE STANDARD SPECIFICATIONS, LATEST EDITION.
- F TOP OF CONCRETE COLLAR SHALL BE STAMPED WITH LINE SIZE AND DIRECTION. MINIMUM LETTER SIZE SHALL BE 3" IN HEIGHT.

TOP PLAN

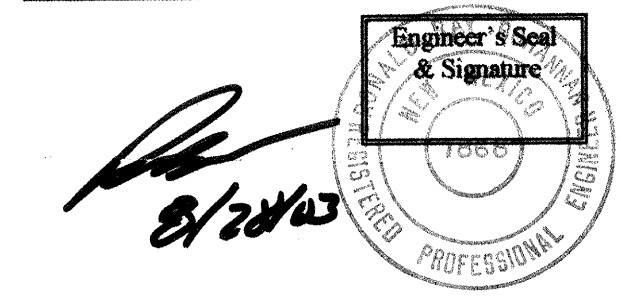
LINE SIZE, SEE NOTE F

LINE DIRECTION, SEE NOTE F

REVISIONS	CITY OF ALBUQUERQUE
	WATER
	VALVE BOX
	DWG. 2328 JANUARY 2002

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Tierra West LLC, 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 accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Russ P. Hugg, of Surv-Tek, NMP's number 9750.

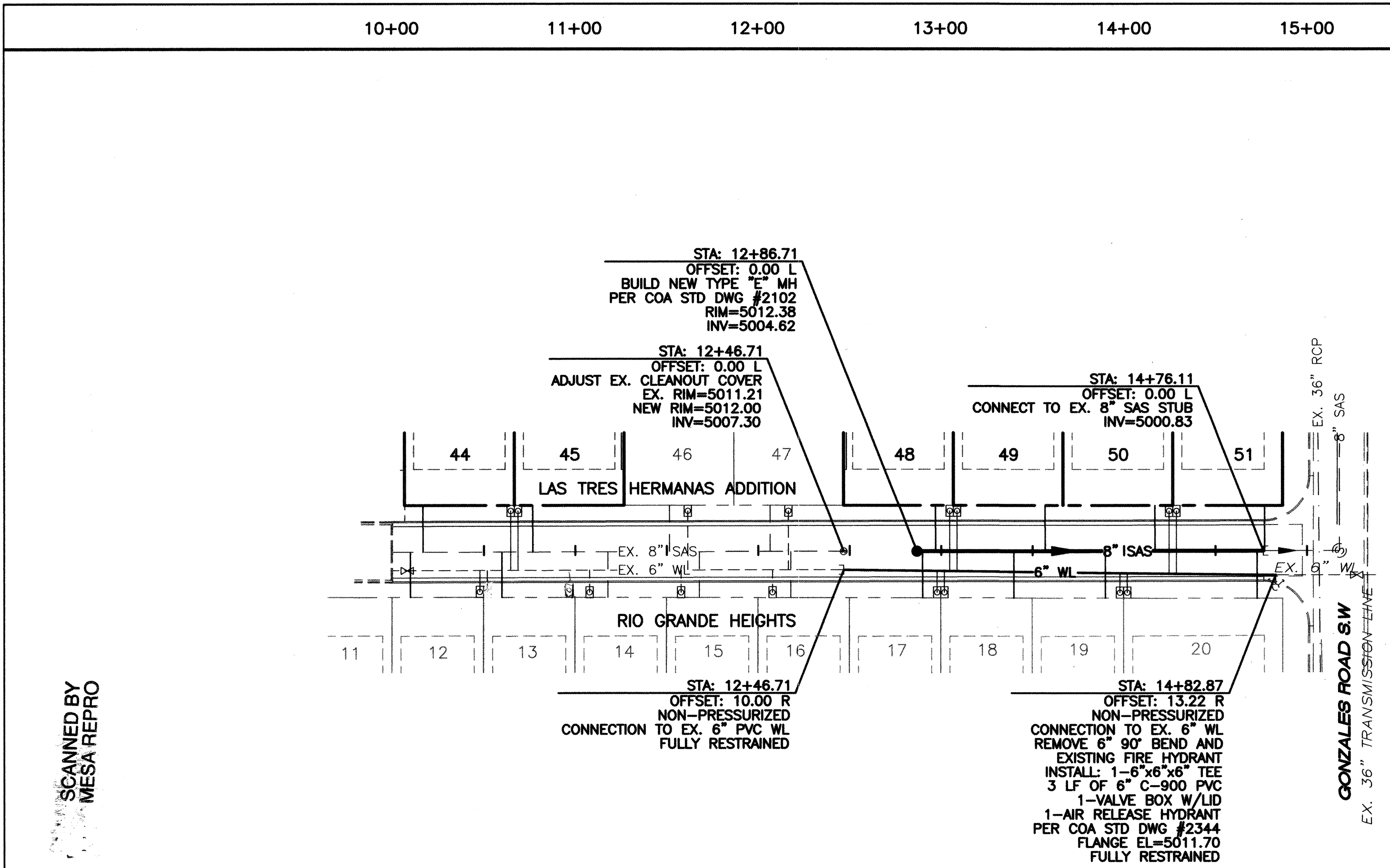


TIERRA WEST, LLC 8509 JEFFERSON NE ALBUQUERQUE, NEW MEXICO 87113 (505)858-3100	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: CRESTVIEW A.D. GONZALES MASTER UTILITY PLAN DETAIL SHEET	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
CITY STANDARD DRAWINGS (DRAFTS)	MO./DAY/YR.
CITY PROJECT NO. 700281	ZONE M.P. NO. K-11-Z
SHEET 7	OF 12

26 7002.81 0704

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	CONTRACT NO.	ACCS MONUMENT	"NMAS-44"	FIELD NOTES	NO.	NO.	NO.
WORK	DATE	CENTRAL STATION DATA	DATE	DATE	DATE	DATE	DATE
INSPECTED BY	DATE	NM STATE PLANE COORDINATES	DATE	BY	BY	BY	BY
ACCEPTANCE BY	DATE	Central Zone (NAD 1927)	DATE				
VELOCIMETER	DATE	X=355,159.45	DATE				
DRAWINGS	DATE	Y=1,480,226.55	DATE				
CORRECTED BY	DATE	G-G=0.9996815	DATE				
RECORDED BY	DATE	Do=00' 5'32"	DATE				
		EL=5002.981 (SLD 1929)					

CITY STANDARD DRAWINGS (DRAFTS)



- GENERAL NOTES:
- SEE MASTER UTILITY PLAN FOR ALL RESTRAINING.
 - SEE MASTER UTILITY PLAN FOR SANITARY SERVICE CONNECTIONS.

WL TABLE

LOT #	STATION	SERVICE
44&45	10+66.66	DOUBLE
48&49	13+06.66	DOUBLE
50&51	14+26.66	DOUBLE
12	10+49.78	DOUBLE
17&18	12+99.76	DOUBLE
19&20	13+99.76	DOUBLE

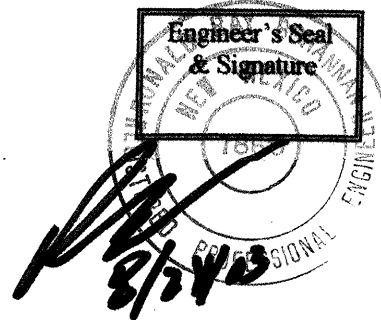
SAS TABLE

LOT #	STATION*	LF	INV.*	ELEV. ● PL
44	10+16.66	25	1.00	5009.13
45	10+76.66	25	1.00	5009.62
48	12+96.80	25	1.00	5012.55
49	13+56.80	25	1.00	5012.13
50	14+16.80	25	1.00	5011.71
51	14+76.80	25	1.00	5011.50
12	10+09.76	25	1.00	5009.10
13	10+59.76	25	1.00	5009.55
17	12+89.76	25	1.00	5012.55
18	13+39.76	25	1.00	5012.13
19	13+89.76	25	1.00	5011.71
20	14+72.76	25	1.00	5011.50

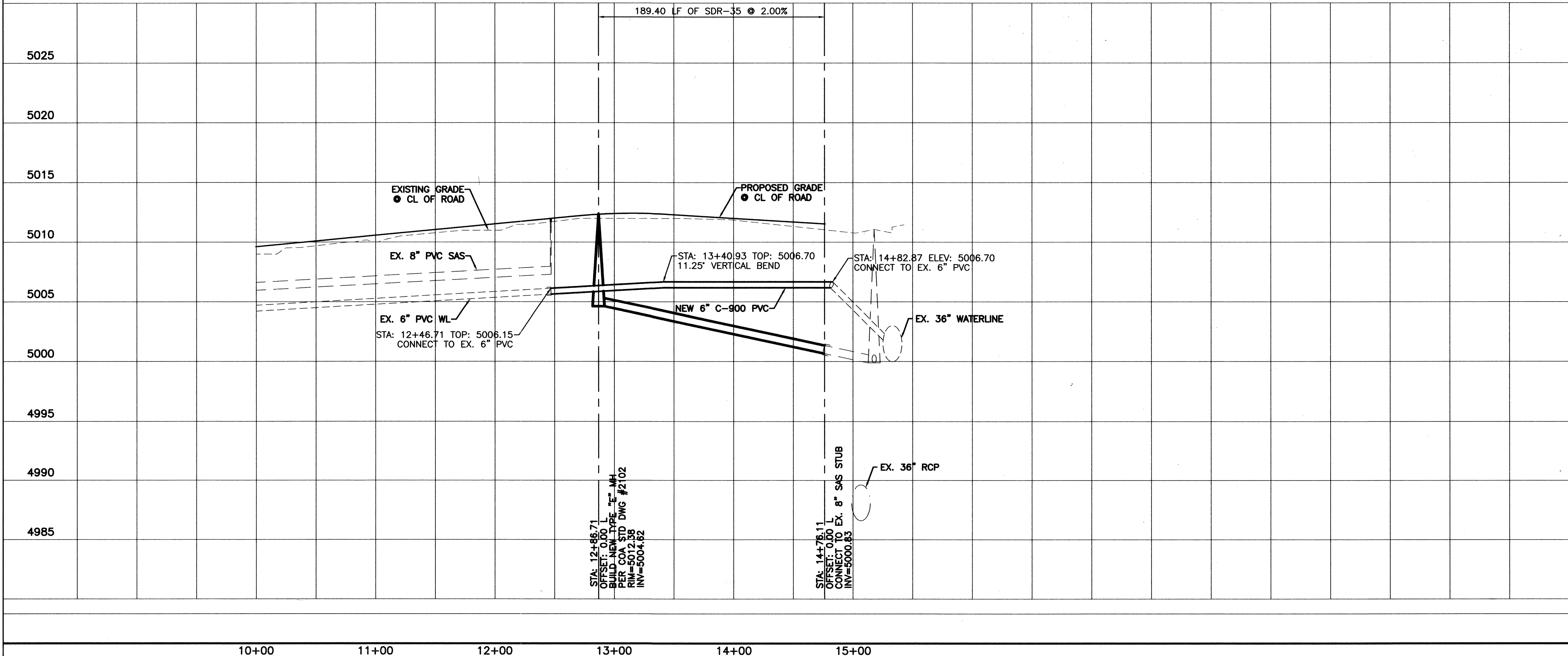
* ● END OF SERVICE LINE

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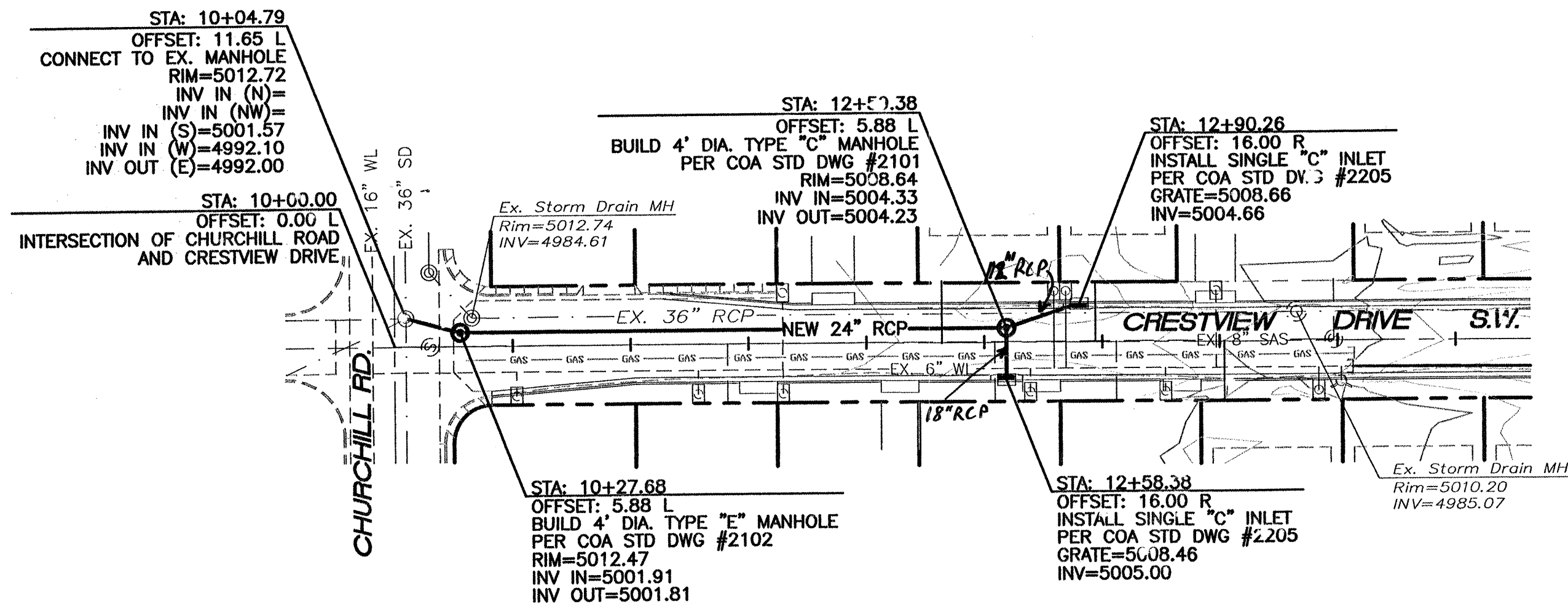


SCALE: HORIZ. 1"=50'
VERT. 1"=5'



TIERRA WEST, LLC 8509 JEFFERSON NE ALBUQUERQUE, NEW MEXICO 87113 (505)858-3100	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: CRESTVIEW AND GONZALES UTILITY IMPROVEMENTS 52ND STREET STA: 10+00.00 TO STA:	
DESIGN REVIEW COMMITTEE APR - 1 2003	CITY ENGINEER APPROVAL APR - 2 2003
CITY PROJECT NO. 700281	ZONE MAP NO. K-11-Z
SHEET 9 OF 12	

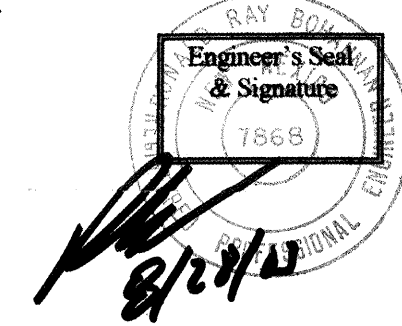
SCANNED BY
MESA REPRO



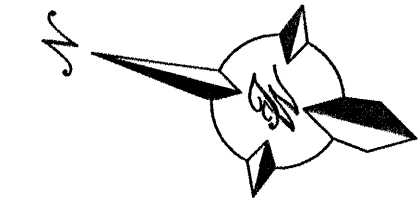
CITY OF ALBUQUERQUE RESPONSIBLE
FOR ALL STORM SEWER IMPROVEMENTS

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Tierra West LLC, 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 accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Russ P. Hugg, of Surv-Tek, NMPS number 9750



SCALE: HORIZ. 1"=50'
VERT. 1"=5'



23.72 LF OF 18" TYPE III RCP @ 1.00%
Q=19.60 cfs V=6.24 fps

231.69 LF OF 24" TYPE III RCP @ 1.00%
Q=19.60 cfs V=6.24 fps

32.44 LF OF 18" TYPE III RCP @ 1.00%
Q=9.80 cfs V=5.55 fps

5015

5010

5005

5000

4995

4990

4985

4980

4975

4965

STA: 10+04.79
OFFSET: 11.65 L
CONNECT TO EX. MANHOLE
RIM=5012.72
INV IN (N)=
INV IN (S)=5001.57
INV IN (W)=4992.10
INV OUT (E)=4992.00

STA: 10+27.68
OFFSET: 5.88 L
BUILD 4" DIA. TYPE "E" MANHOLE
PER COA STD DWG #2102
RIM=5012.47
INV IN=5001.91
INV OUT=5001.81

STA: 12+50.38
OFFSET: 5.88 L
BUILD 4" DIA. TYPE "C" MANHOLE
PER COA STD DWG #2101
RIM=5008.64
INV IN=5004.33
INV OUT=5004.23

STA: 12+90.26
OFFSET: 16.00 R
INSTALL SINGLE "C" INLET
PER COA STD DWG #2205
GRATE=5008.66
INV=5004.66

TIERRA WEST, LLC 8509 JEFFERSON NE ALBUQUERQUE, NEW MEXICO 87113 (505)858-3100	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: CRESTVIEW AND GONZALES STORM SEWER IMPROVEMENTS CRESTVIEW DR. STA: 10+00.00 TO STA: 18+69.97	
DESIGN REVIEW COMMITTEE APPROVED APR - 1 2003	CITY ENGINEER APPROVAL APPROVED APR - 2 2003 CITY ENGINEER
CITY PROJECT NO. 700281	ZONE MAP NO. K-11-Z
SHEET 10 OF 12	

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	CSM INC.	ACS MONUMENT	NM45-44"	FIELD NOTES	NO.	ENGINEER'S SEAL	REVISIONS
STARTED BY	CONTRACTOR	CENTRAL STATION DATA		DATE	BY		REMARKS
INSPECTED BY	CONTRACTOR	NM STATE PLANE COORDINATES					DESIGN
FIELD VERIFICATION	CONTRACTOR	Central Zone (NAD 1927)					DATE 01-03
CORRECTED BY	CONTRACTOR	X=365,159.45					DRAWN BY JDN
		Y=1,480,228.55					DATE 01-14-03
		G-G=0.999815					DRAWN NAME: CRESTSDPP.DWG
		Dc=-00'15'32"					CHECKED BY RRB
		EL=5002.581 (SLD 1929)					DATE 01-03

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

19. 48 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

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

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

22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:

1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

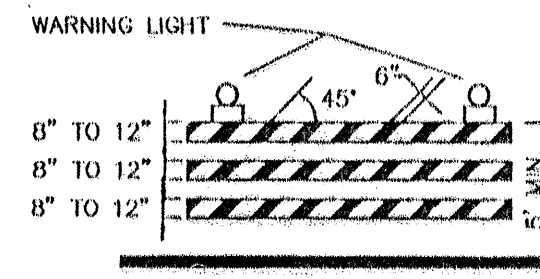
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

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

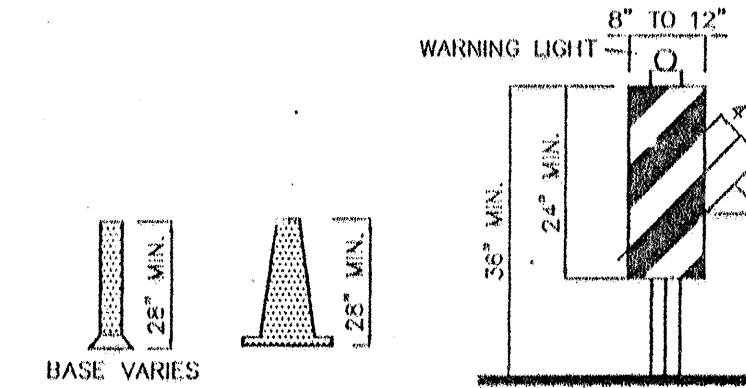
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

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

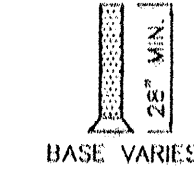
27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.



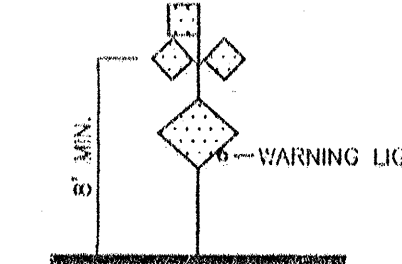
TYPE III BARRICADE



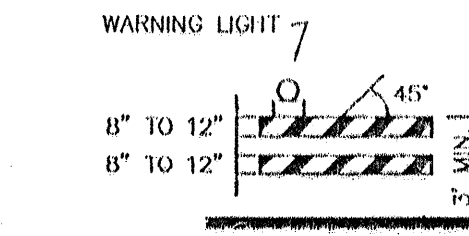
VERTICAL PANEL



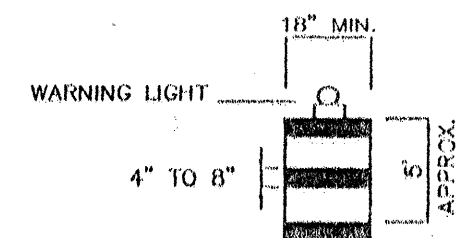
CONES



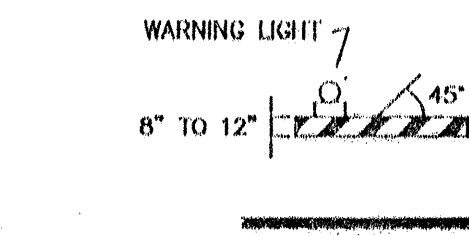
HIGH LEVEL WARNING DEVICE



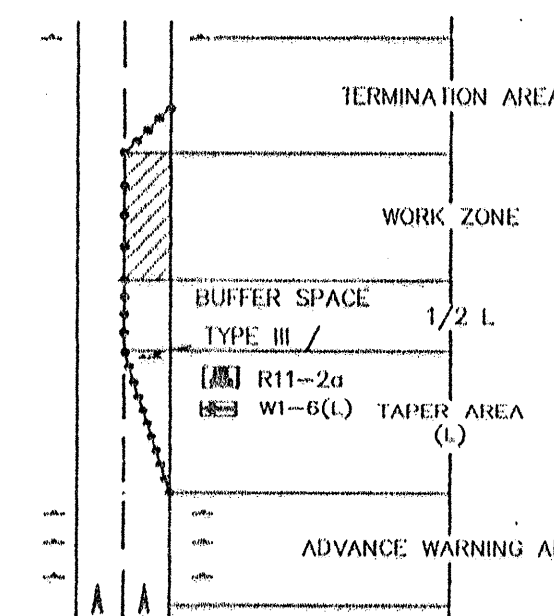
TYPE II BARRICADE



BARREL



TYPE I BARRICADE



TRAFFIC CONTROL ELEMENTS

LEGEND

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

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

TAPER REQUIREMENTS

SPEED LIMIT (MPH)	TAPER LENGTH (L) (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		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)	MINIMUM DISTANCE IN FEET	
	BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

TAPER CRITERIA

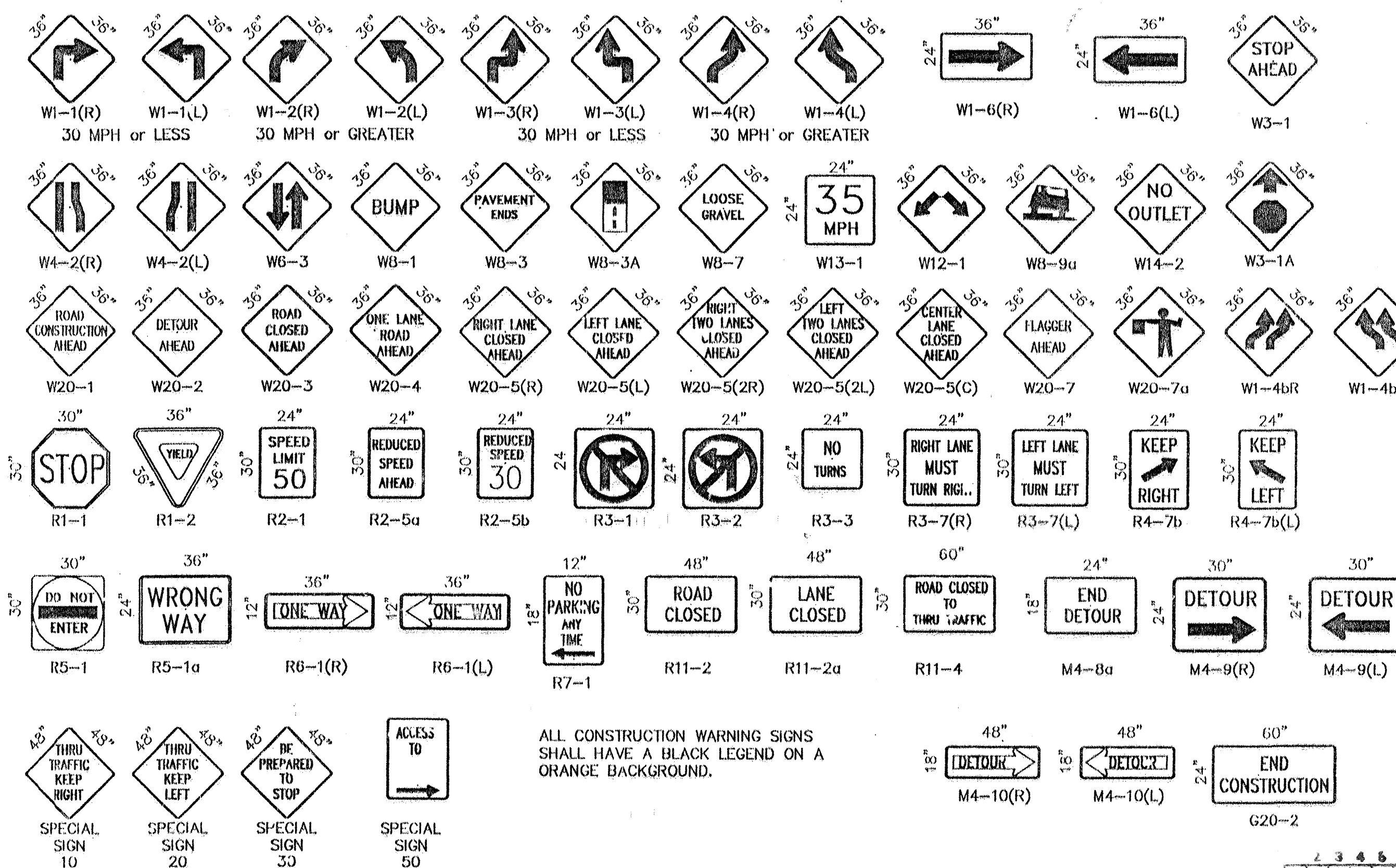
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
JERGING TAPER	L MINIMUM
SHIFTER TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

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

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

SIGN FACE DETAILS



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

26 7002 81 1104

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

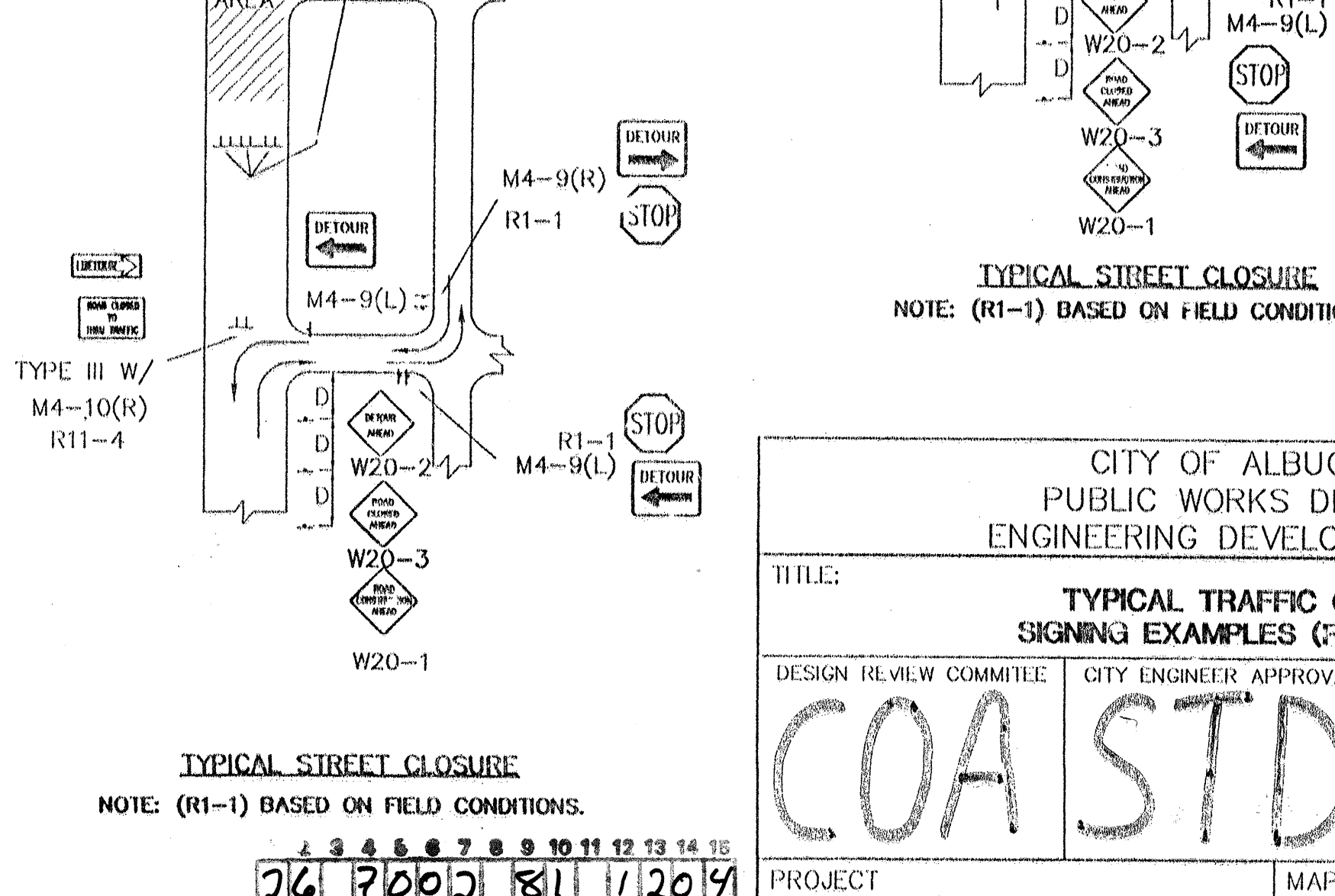
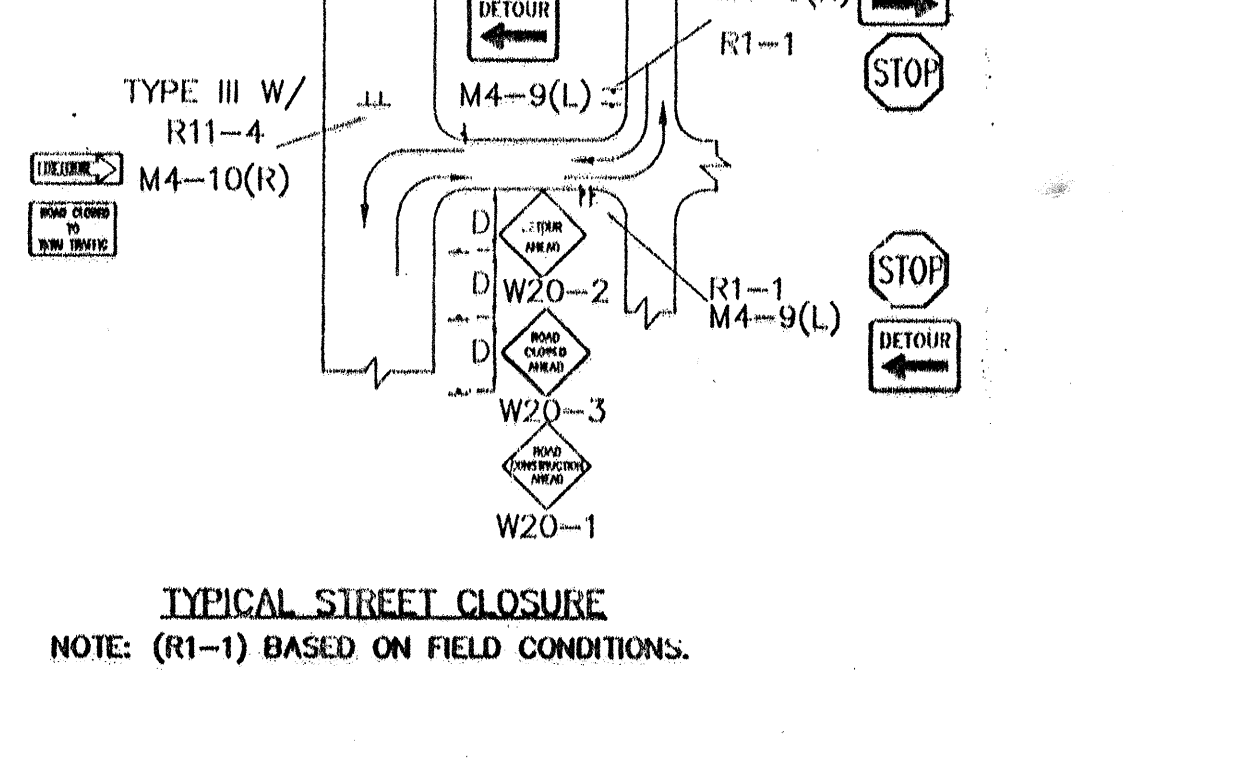
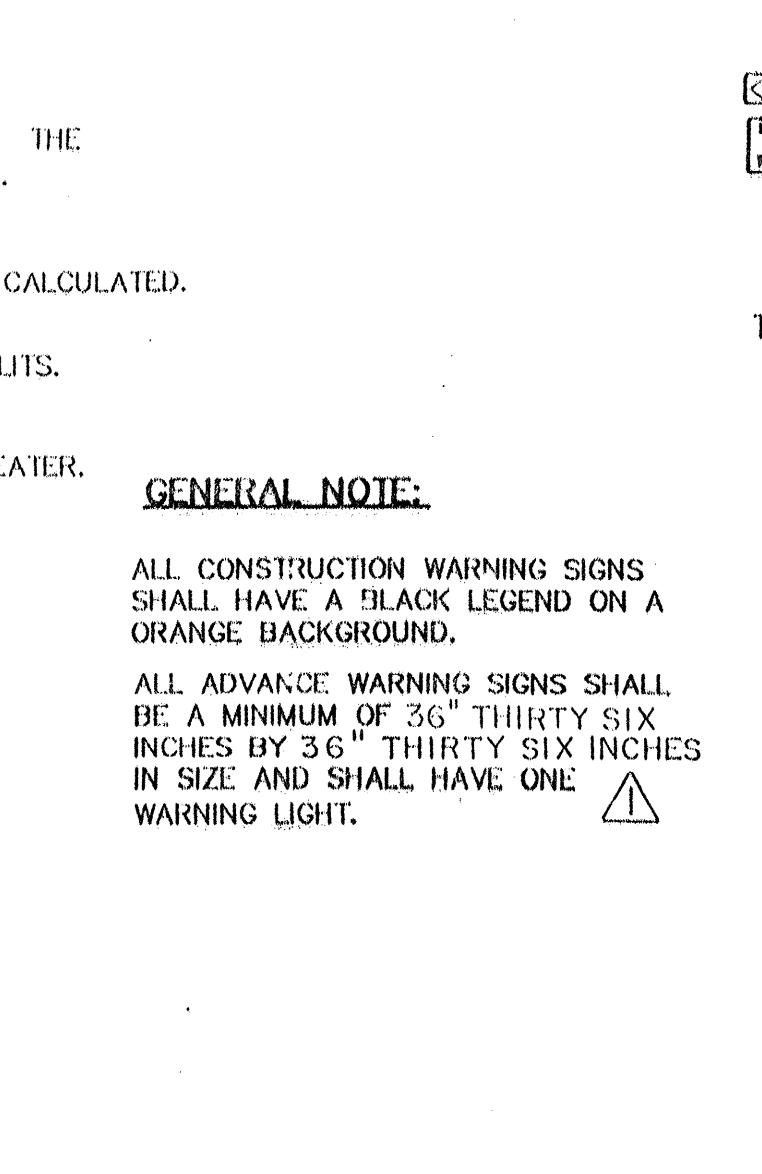
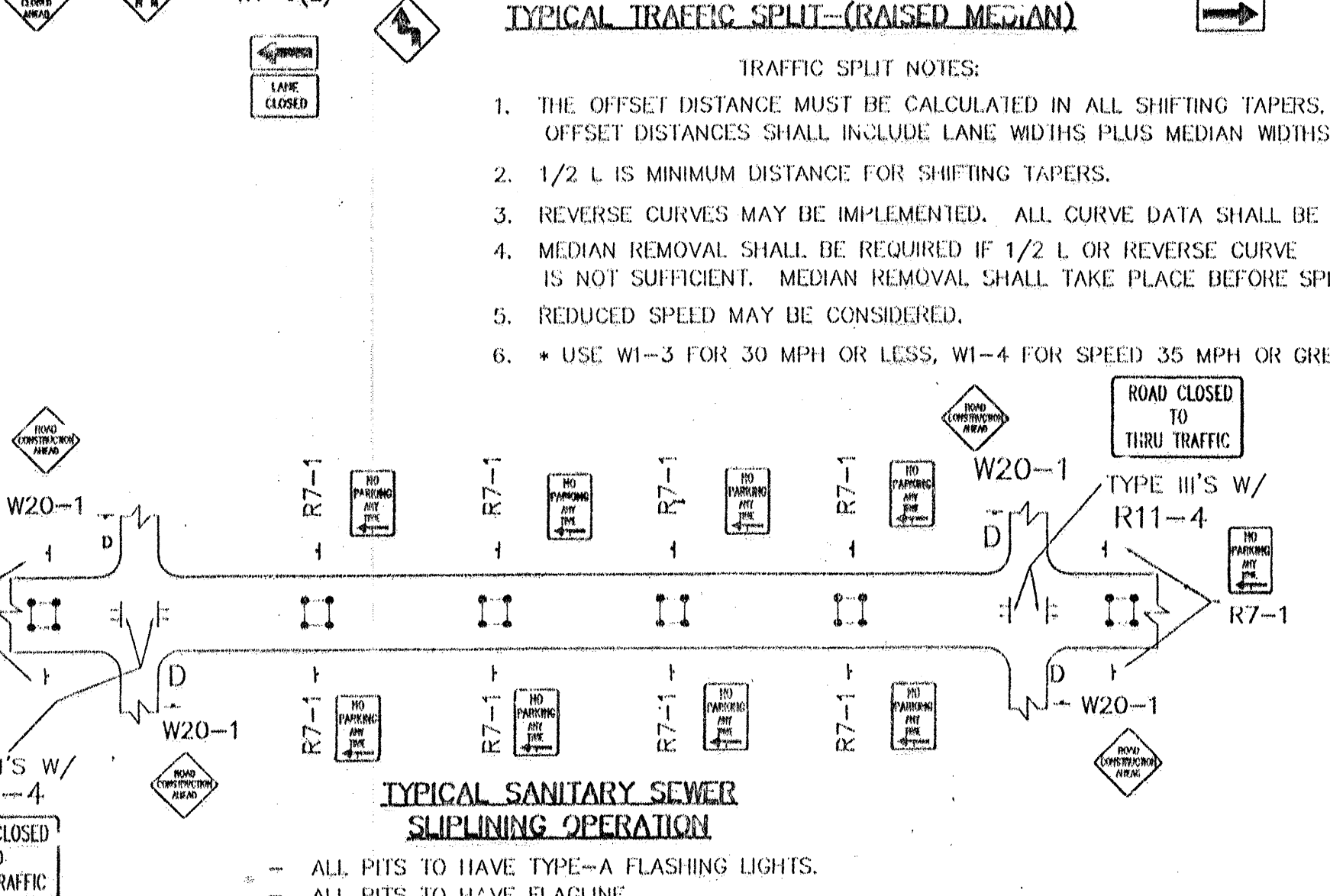
TITLE: **SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS**

DESIGN REVIEW COMMITTEE: **COASTD**

CITY ENGINEER APPROVAL: **COASTD**

PROJECT NO. **11 OF 12**

MAP NO. **11 OF 12**



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 36" THIRTY SIX INCHES BY 36" THIRTY SIX INCHES IN SIZE AND SHALL HAVE ONE

WARNING LIGHT.



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

PROJECT NAME		ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
NO.		DATE		NO.		BY		CONTRACTOR	
DESIGNED BY		C.O.A. STANDARDS		DATE		NO.		SURV/TECH DATE 2003	
DRAWN BY		DATE		DATE		NO.		CONTRACT DATE 2003	
CHECKED BY		DATE		DATE		NO.		COMPL/DATE 2003	
REVISIONS		REMARKS		J.D.L.		DATE		NO.	
DESIGN		REVISIONS		PY		DATE		NO.	
DESIGNED BY		C.O.A. STANDARDS		DATE		DATE		NO.	
DRAWN BY		DATE		DATE		DATE		NO.	
CHECKED BY		DATE		DATE		DATE		NO.	
REVISIONS		REMARKS		J.D.L.		DATE		NO.	
DESIGN		REVISIONS		PY		DATE		NO.	
DESIGNED BY		C.O.A. STANDARDS		DATE		DATE		NO.	
DRAWN BY		DATE		DATE		DATE		NO.	
CHECKED BY		DATE		DATE		DATE		NO.	
REVISIONS		REMARKS		J.D.L.		DATE		NO.	
DESIGN		REVISIONS		PY		DATE		NO.	
DESIGNED BY		C.O.A. STANDARDS		DATE		DATE		NO.	
DRAWN BY		DATE		DATE		DATE		NO.	
CHECKED BY		DATE		DATE		DATE		NO.	
REVISIONS		REMARKS		J.D.L.		DATE		NO.	
DESIGN		REVISIONS		PY		DATE		NO.	
DESIGNED BY		C.O.A. STANDARDS		DATE		DATE		NO.	
DRAWN BY		DATE		DATE		DATE		NO.	
CHECKED BY		DATE		DATE		DATE		NO.	
REVISIONS		REMARKS		J.D.L.		DATE		NO.	
DESIGN		REVISIONS		PY		DATE		NO.	
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DRAWN BY		DATE		DATE		DATE		NO.	
CHECKED BY		DATE		DATE		DATE		NO.	
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CHECKED BY		DATE		DATE		DATE		NO.	
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DESIGN		REVISIONS		PY		DATE		NO.	
DESIGNED BY		C.O.A. STANDARDS		DATE		DATE		NO.	
DRAWN BY		DATE		DATE		DATE		NO.	
CHECKED BY		DATE		DATE		DATE		NO.	
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REVISIONS		REMARKS		J.D.L.		DATE		NO.	
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DRAWN BY		DATE		DATE		DATE		NO.	
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DESIGNED BY		C.O.A. STANDARDS		DATE		DATE		NO.	
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CHECKED BY		DATE		DATE		DATE		NO.	
REVISIONS		REMARKS		J.D.L.		DATE		NO.	
DESIGN		REVISIONS							