



CONSTRUCTION PLANS FOR **MESA DEL RIO SUBDIVISION**

UTILITY & PAVING IMPROVEMENTS

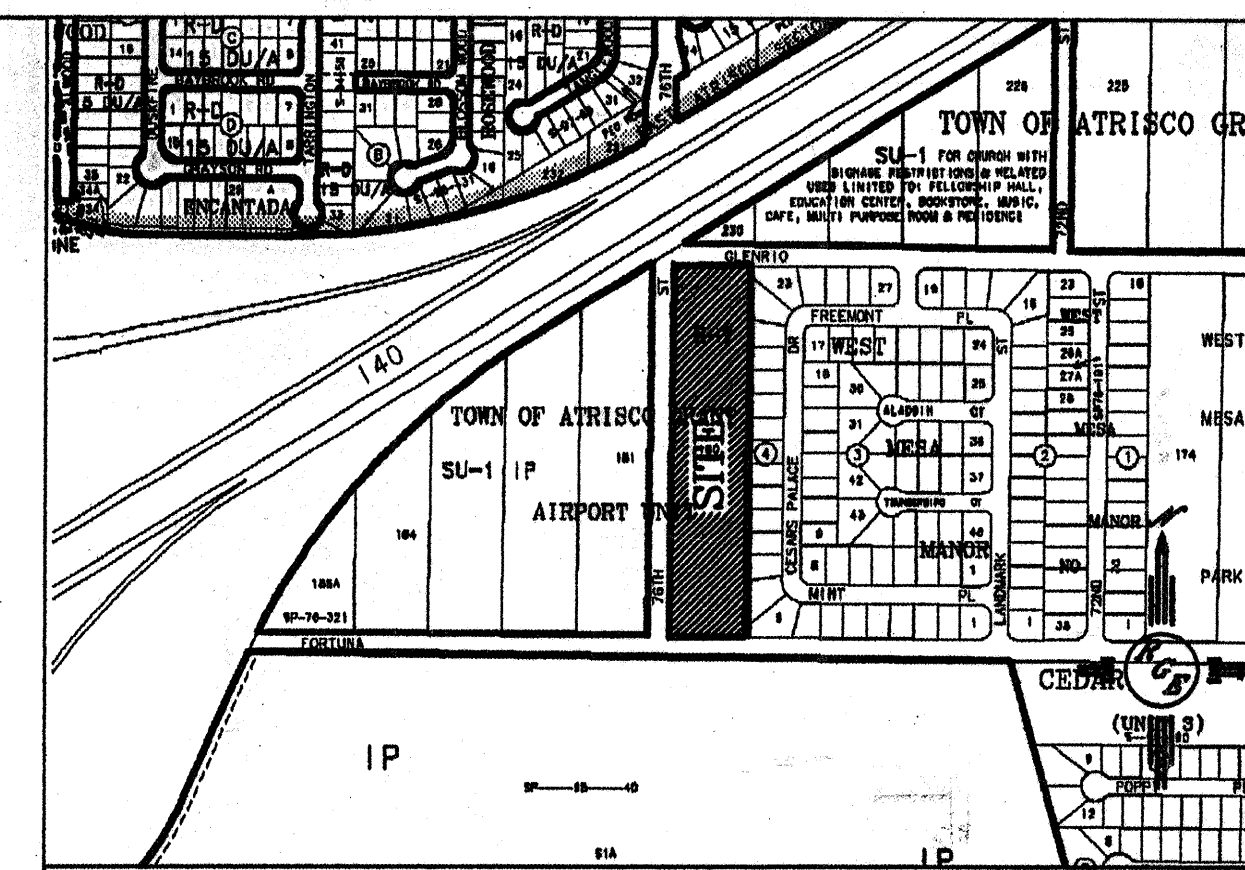
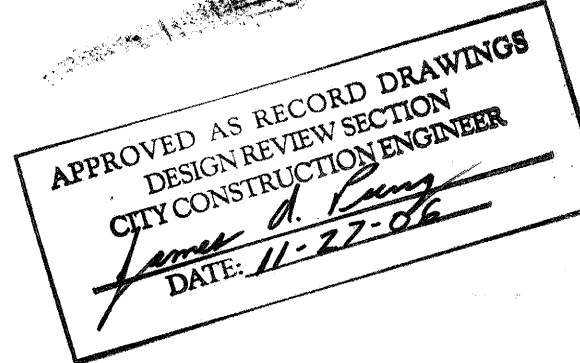
CITY OF ALBUQUERQUE
NEW MEXICO
SEPTEMBER 2005

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20-7742-81106

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VICINITY MAP: J-10-Z

NOTICE TO CONTRACTORS

1. 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 #7).

2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (280-1990) FOR LOCATION OF EXISTING UTILITIES.

3. ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES 24-HOUR CONSTRUCTION.

4. 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.

5. SEVEN (7) 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 BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO STANDARD SPECIFICATIONS.

6. 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.

7. 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 REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED 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 DESIGNER'S EXPENSE.

8. 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 FOLLOWING NOTES ALSO APPLY WHEN CHECKED

☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.

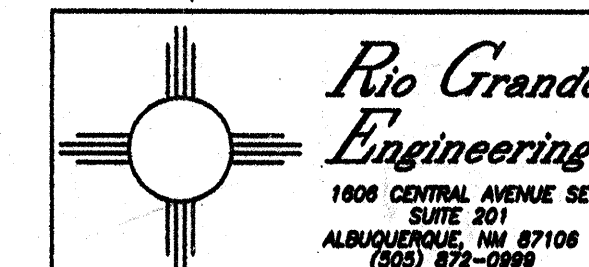
☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.

☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.

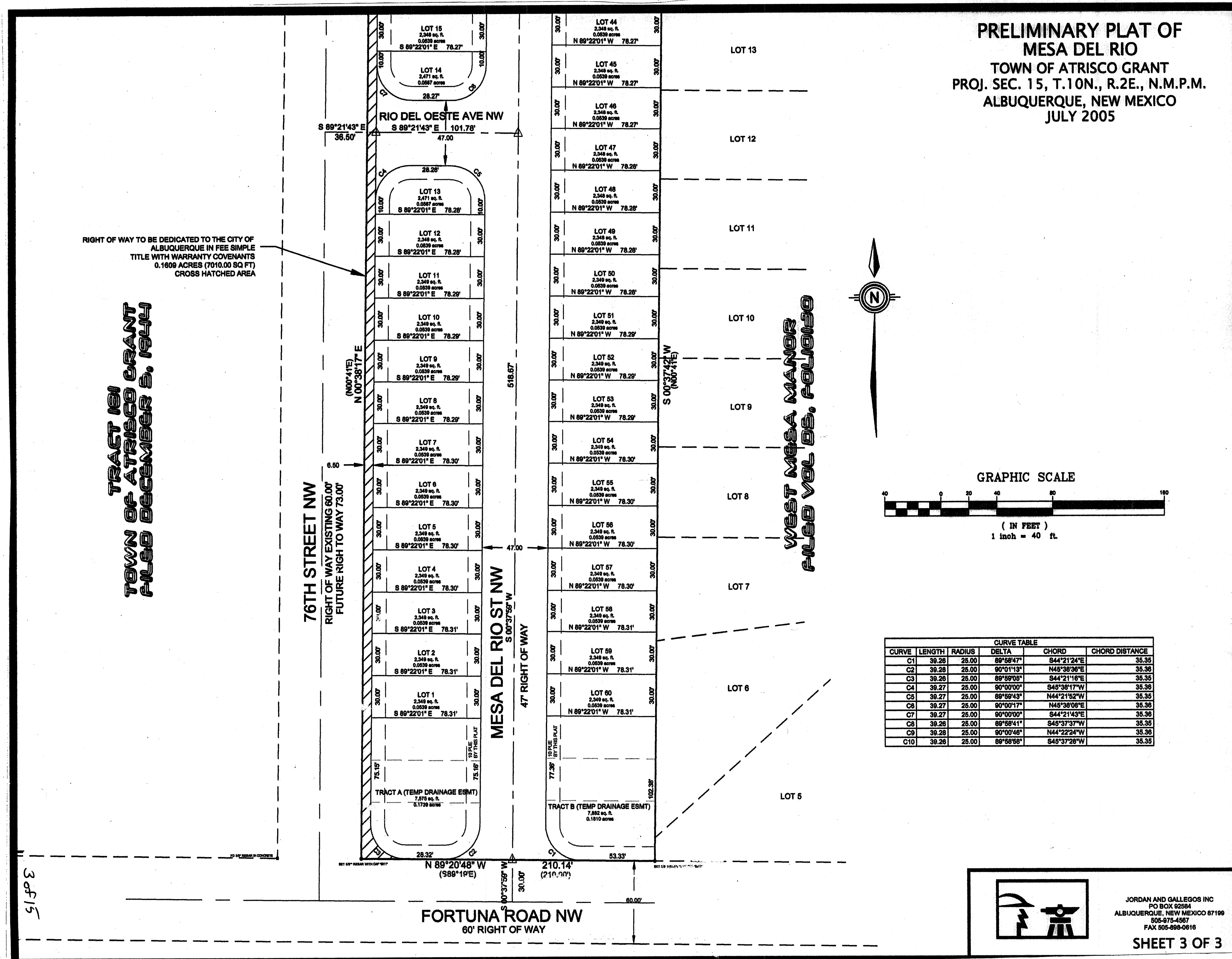
☐ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.

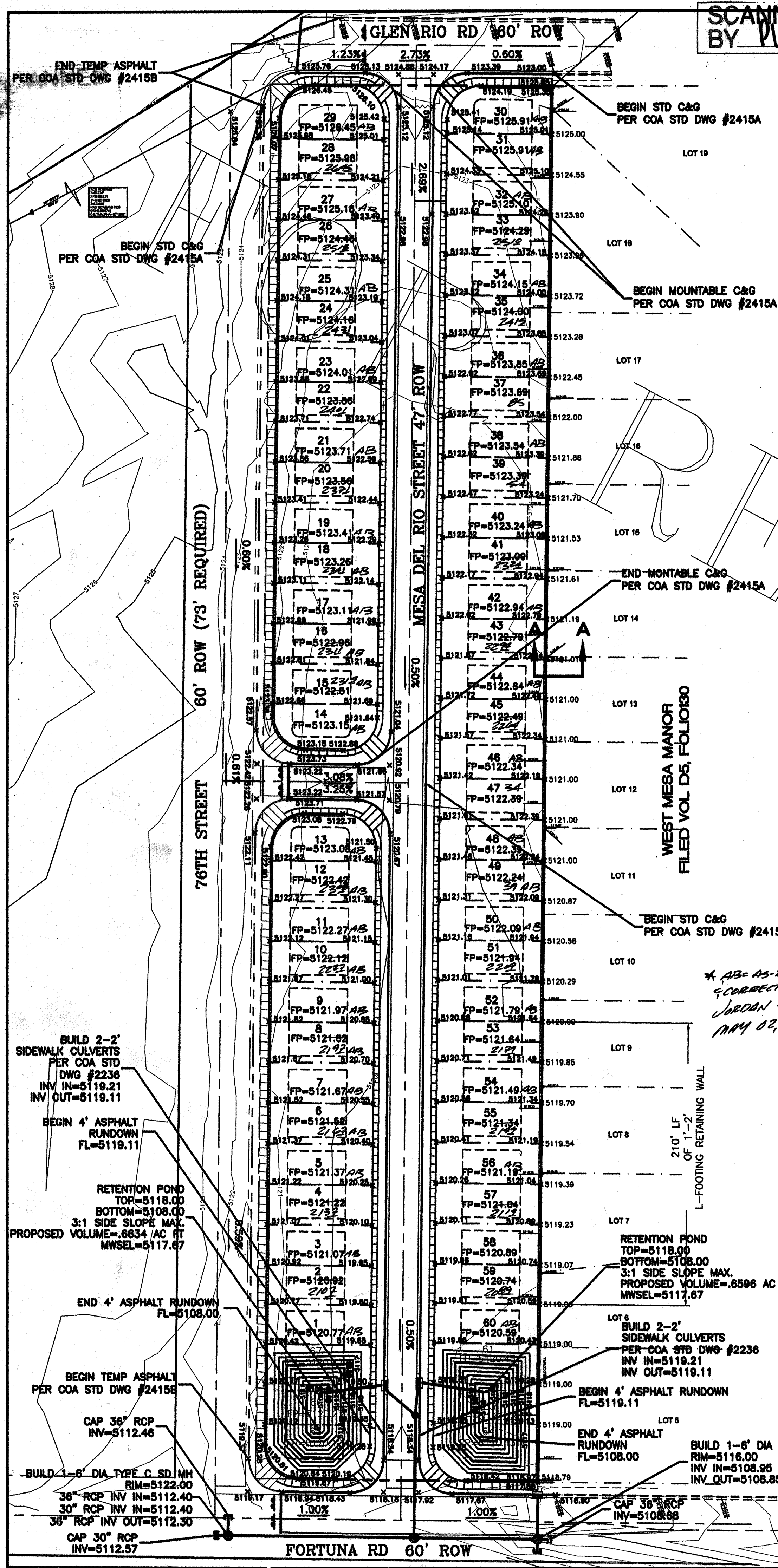
☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

DRB# -1004341



REV	SHEETS	CITY ENGINEER	DATE	USER DEPT.	DATE	USER DEPT.	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS	ENGINEER	DATE	*****		
		ORC Chairman	<i>[Signature]</i>	2-1-06	APPROVED FOR CONSTRUCTION		
		Transportation	<i>[Signature]</i>	1/23/06			
		Water/Wastewater	<i>[Signature]</i>	1/20/06			
		Hydrology	<i>[Signature]</i>	1/20/06			
		C.I.P.	<i>[Signature]</i>	2-1-06			
Constr. Mngmt.		<i>[Signature]</i>	2-1-06	<i>[Signature]</i> 7-03-06 City Engineer Date			
Constr. Coord.		<i>[Signature]</i>	2-1-06				
CITY PROJECT NO.		774281		SHEET : OF 16			





SCANNED BY PLAN

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

1~1.5" ASPHALT CONCRETE, 1500 LBS. STABILITY, TYPE C 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 D898 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 ACCOMMODATING THE EXISTING R-VALUE PER C.O.A. STANDARD SPECIFICATIONS.

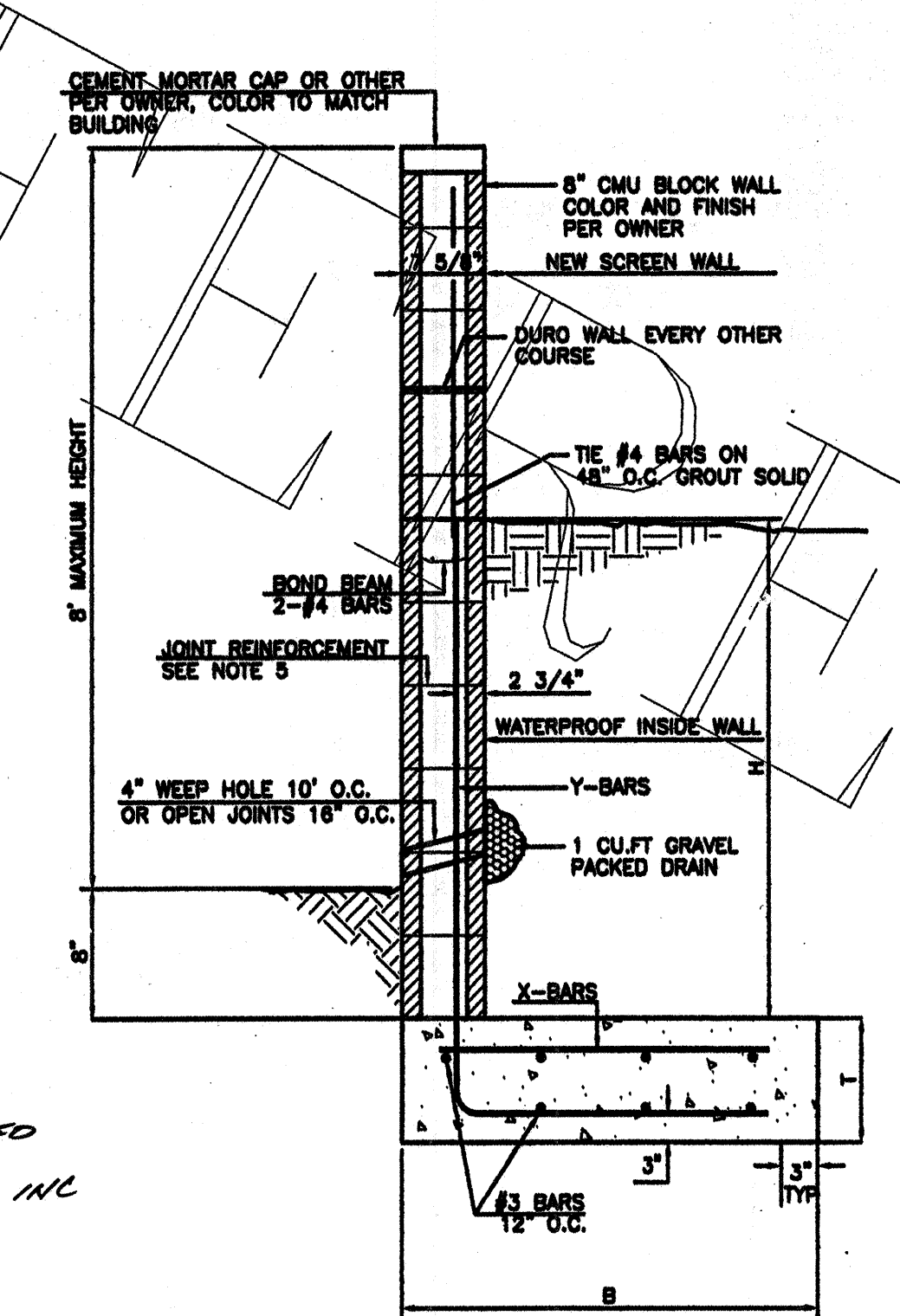
1~1.5" ASPHALT CONCRETE TYPICAL FINISH COURSE PLACED AFTER ALL MANHOLES, VALVES, COVERS/RINGS ARE SET TO GRADE. 1500 LBS. STABILITY TYPE C GRADATION.

STANDARD C&G PER C.O.A. STD DWG #2415A

CONSTRUCTION JOINT 90% MIN. COMPACTION. 2-6" LIFTS, SUBGRADE SOIL 95% MIN. COMPACTION TO ASTM D1557

COMPACTED SUBGRADE TO 95% ASTM D1557

RESIDENTIAL PAVING SECTION (STANDARD CURB) NTS



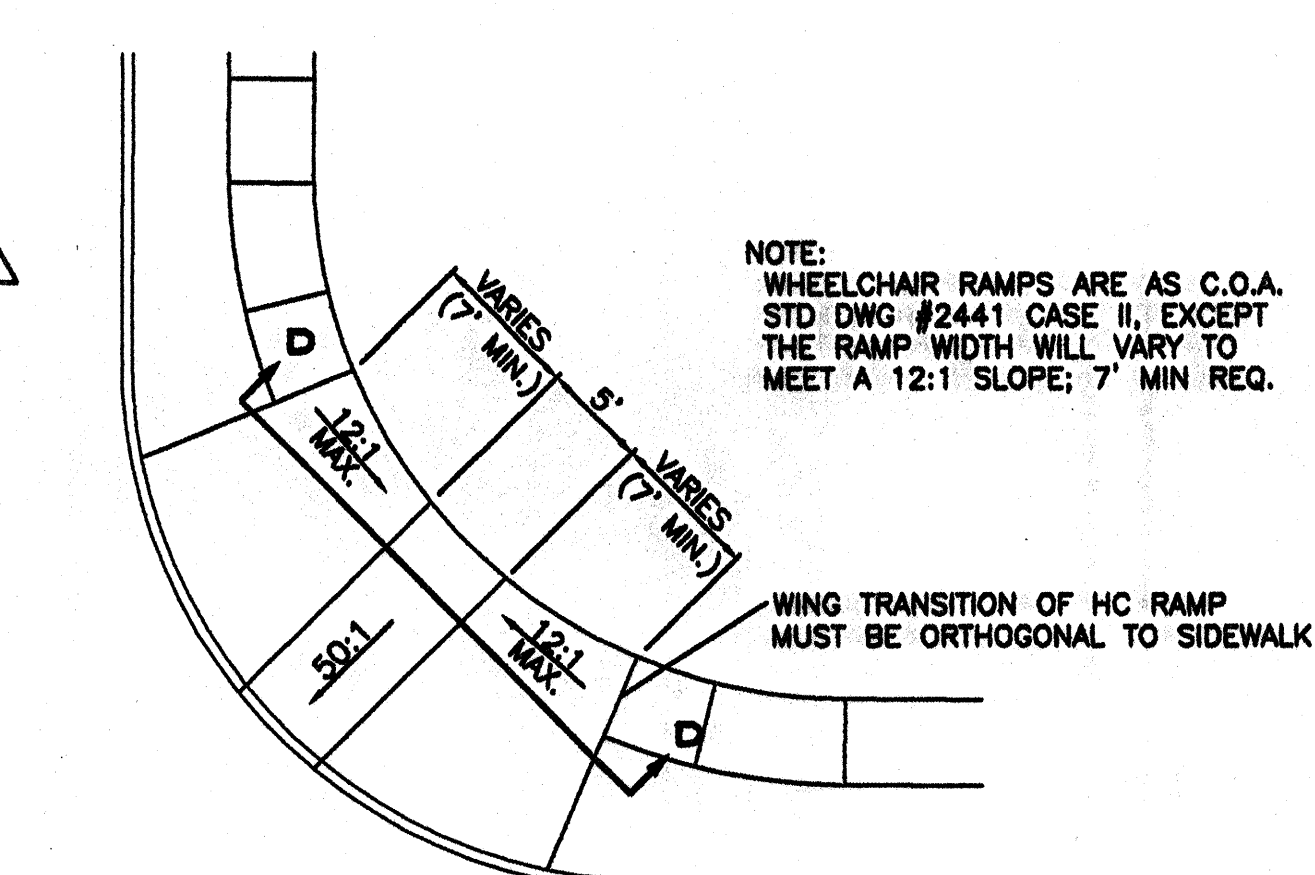
L-FOOTING RETAINING/SCREEN WALL DETAIL NTS

- GENERAL NOTES:**
1. ALL CONCRETE IS TO BE 3000 PSI @ 28 DAYS.
 2. MINIMUM COMPACTION UNDER FOOTINGS IS TO BE 95% PER 'STM. D 1557 FOR A DEPTH OF 1'2" MOISTURE CONTENT IS TO BE ± 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.

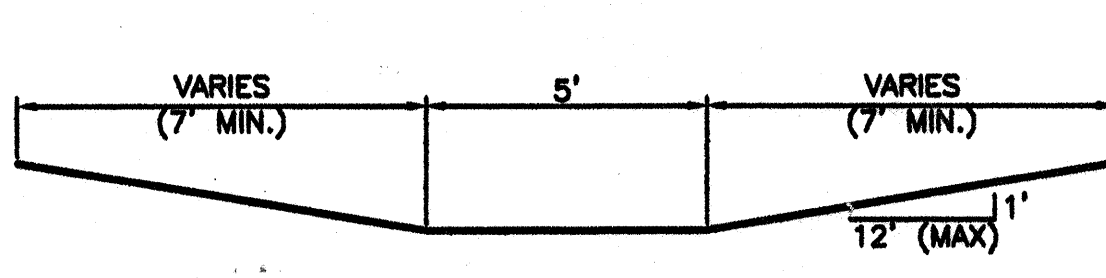
8 INCH REINFORCED CONCRETE MASONRY WALL (FOR RETAINING PORTION ONLY)

H	B	T	Y-BARS	Y-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.

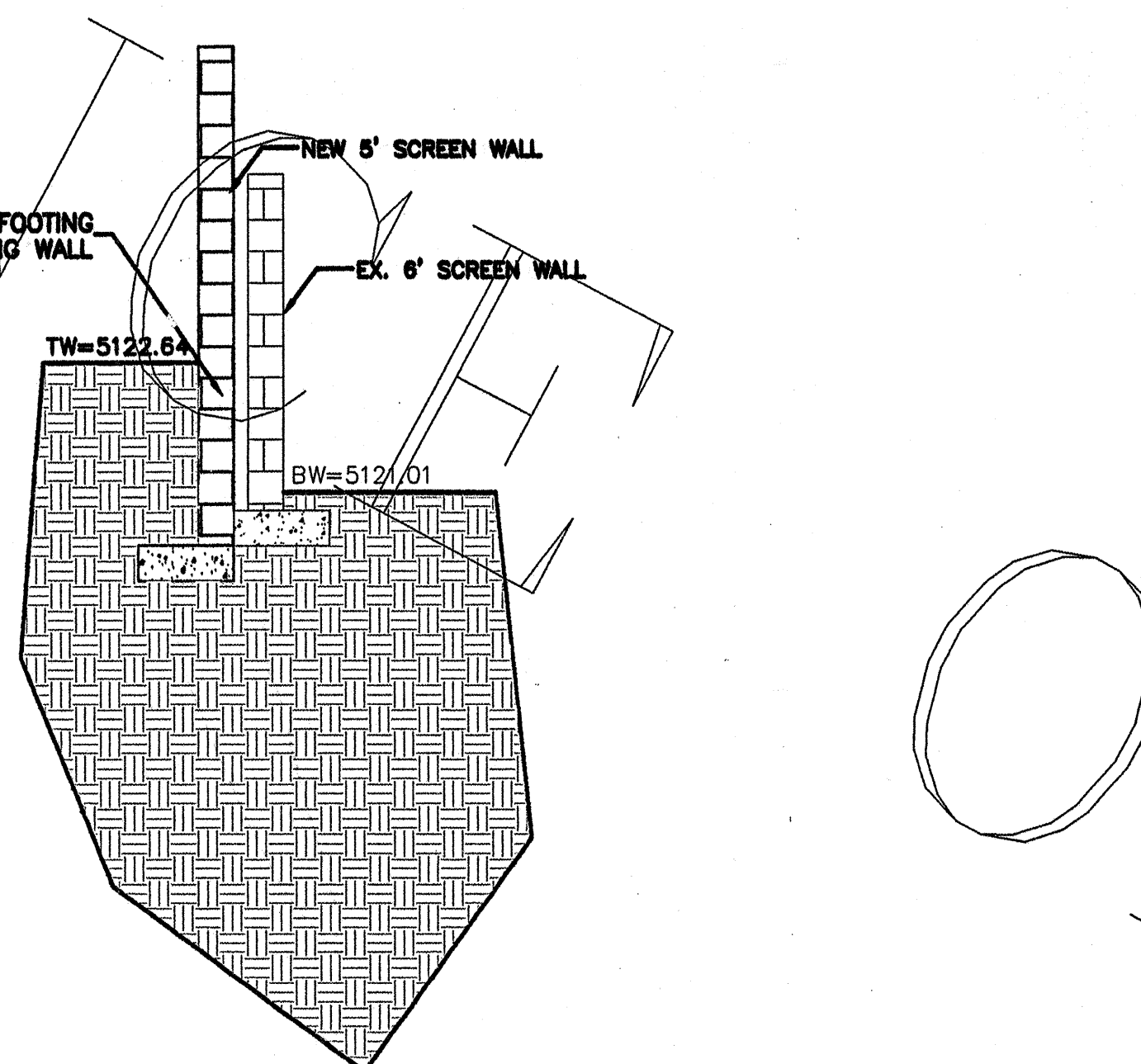
- EROSION CONTROL NOTES:**
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
 2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
 3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
 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.



WHEELCHAIR RAMP DETAIL (TYP.) NTS

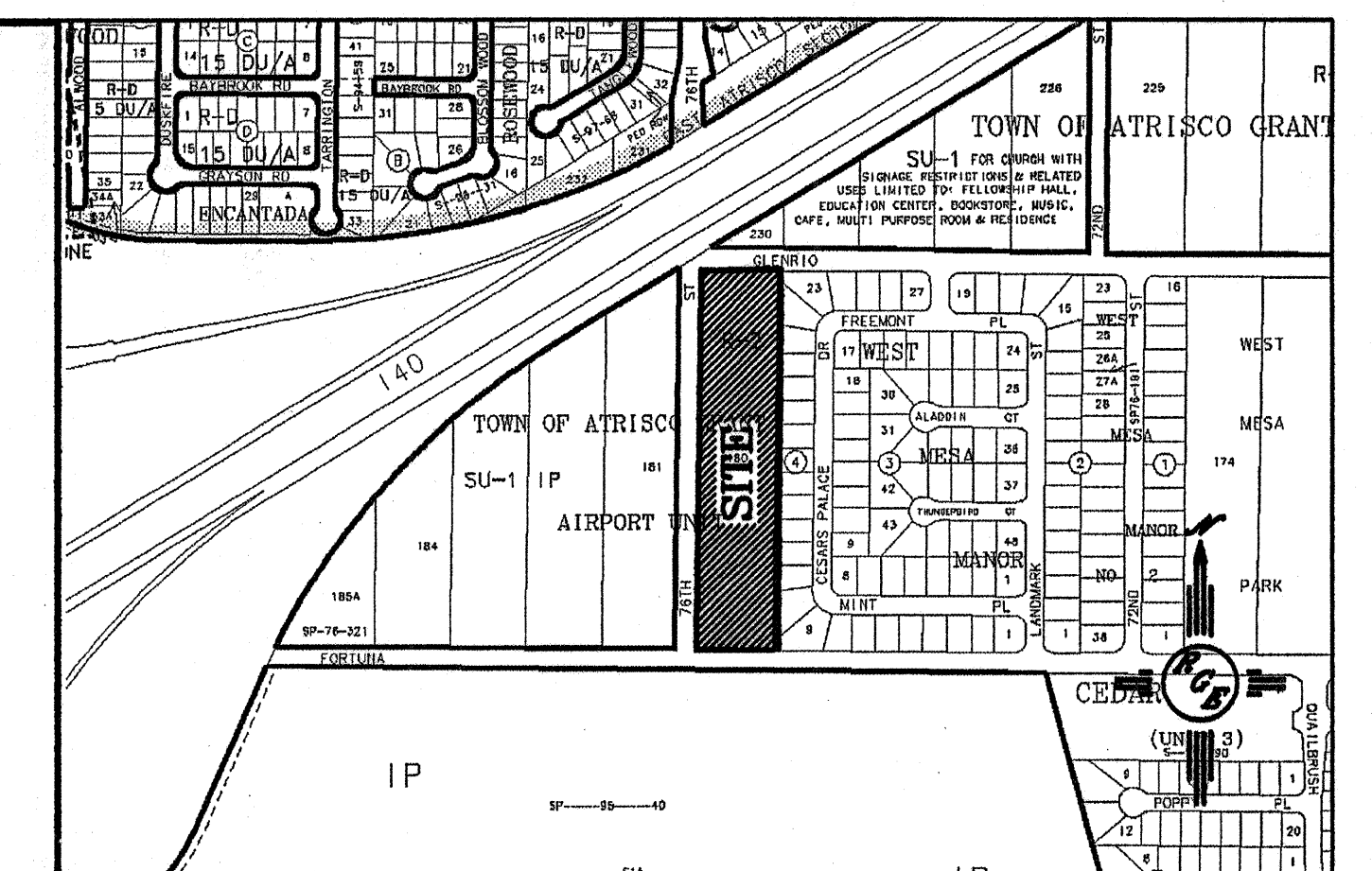


SECTION D-D NTS

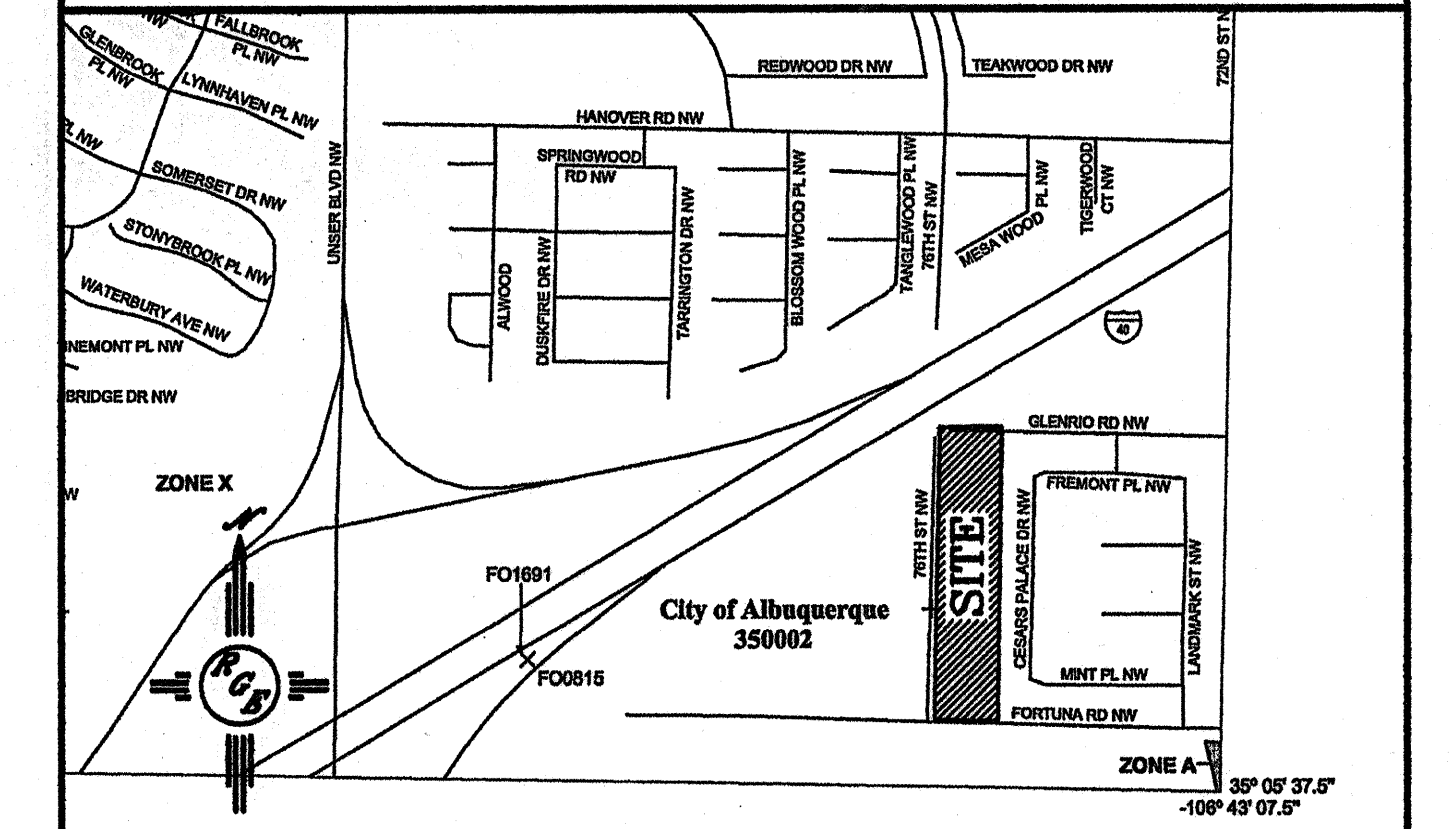


SECTION A-A NTS

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.



VICINITY MAP: J-10-Z



FIRM MAP: 35001C0326E

LEGAL DESCRIPTION:
LOT 180, TOWN OF ATRISCO GRANT, AIRPORT UNIT

- NOTES:**
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
 2. ALL CURB AND GUTTER TO BE STANDARD AND MOUNTABLE PER COA STD DWG #2415A UNLESS OTHERWISE NOTED.
 3. ALL PADS SHALL BE BUILT PER FOOTPRINT SHOWN.

LEGEND

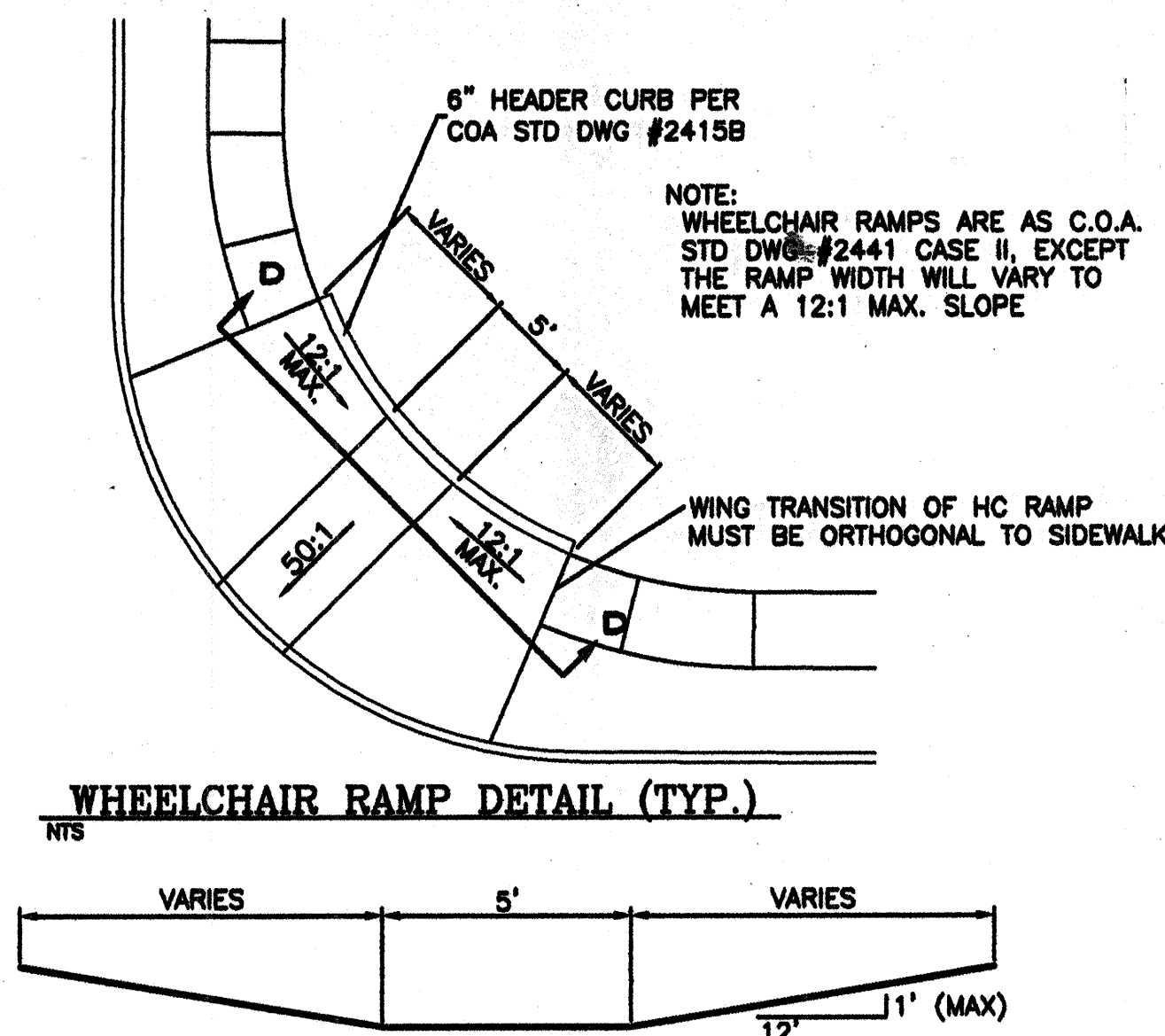
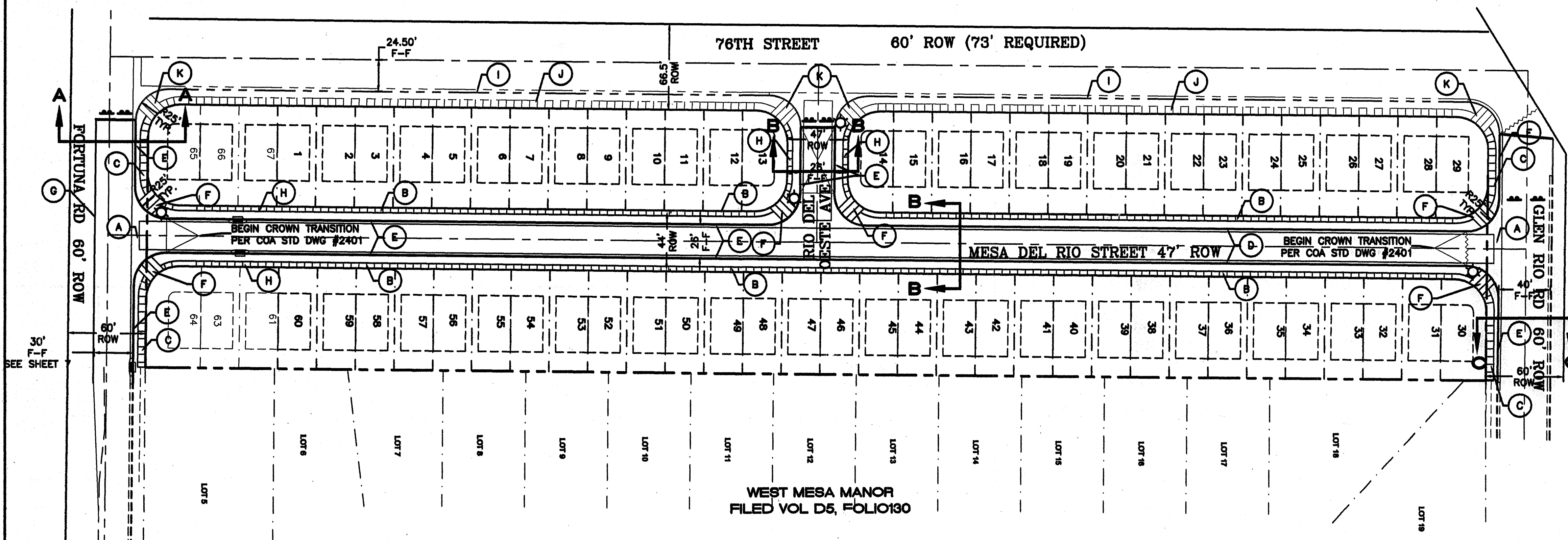
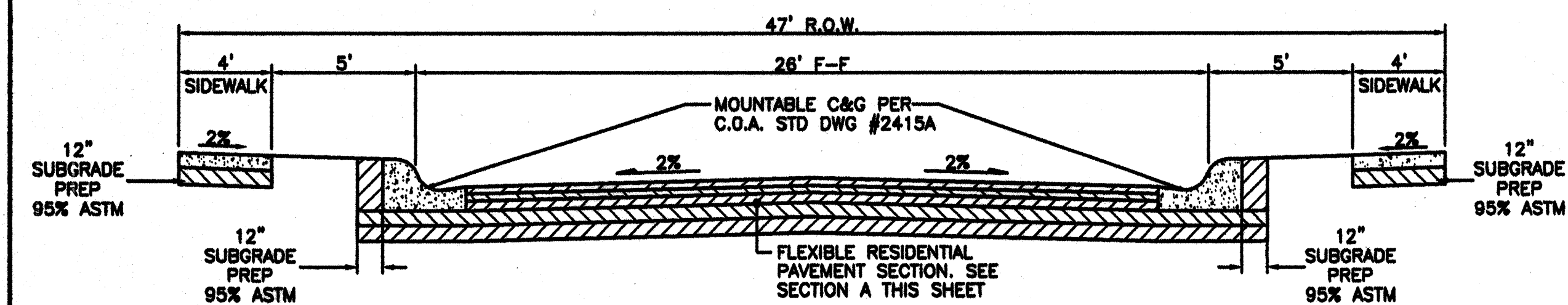
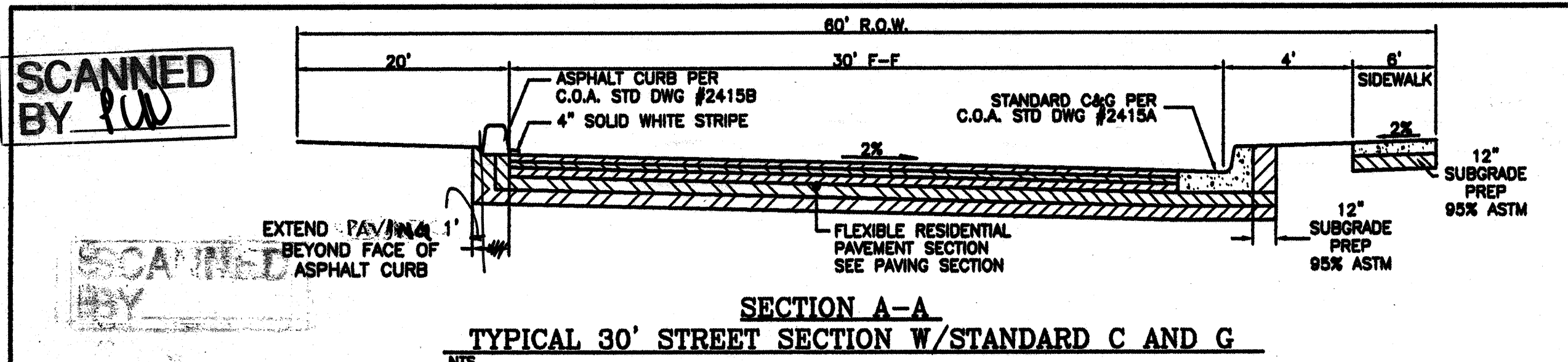
- PROPOSED STORM SEWER MANHOLE
- PROPOSED STORM SEWER LINE
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- BOUNDARY LINE
- EASEMENT
- PROPOSED SIDEWALK
- PROPOSED PERIMETER WALL
- PROPOSED RETAINING WALL
- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- FLOW ARROW
- PROPOSED SPOT ELEVATION
- EXISTING SPOT ELEVATION
- CENTERLINE
- RIGHT-OF-WAY
- LOT LINES
- SETBACK LINE
- PROPOSED CONTOUR
- PROPOSED INDEX CONTOUR

ROUGH GRADING APPROVAL DATE

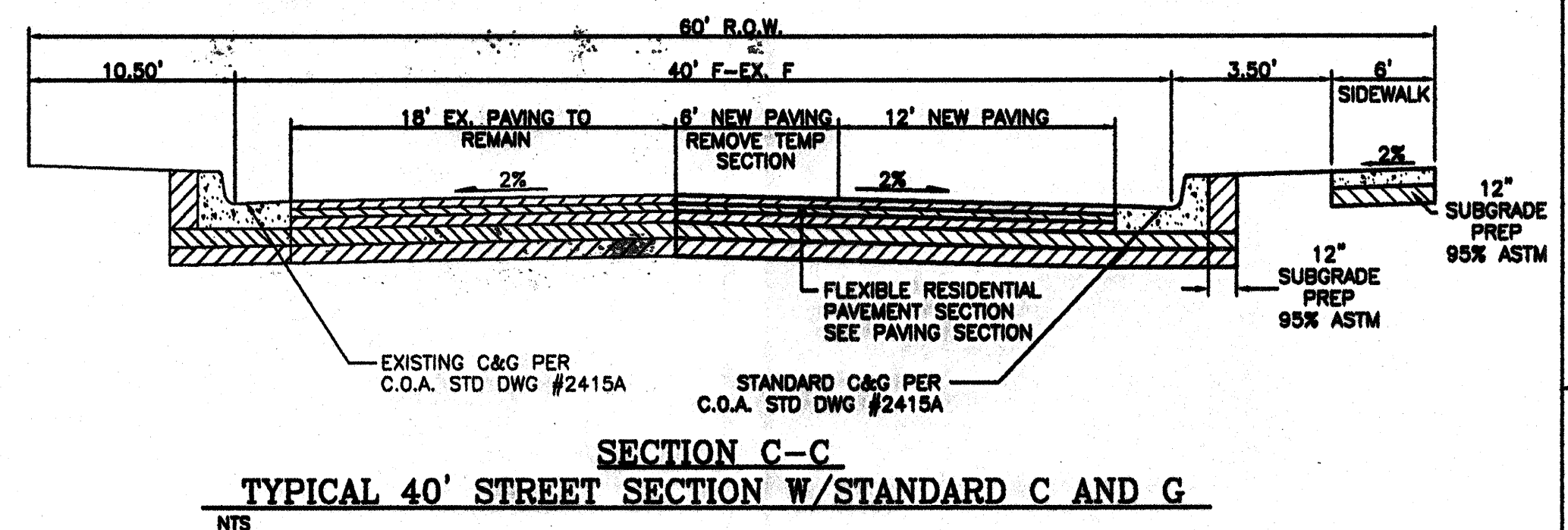
	ENGINEER'S SEAL	MESA DEL RIO	DRAWN BY WCUJ
			DATE
			11-27-05
			2514-GRS-9-15-06X
		GRADING AND DRAINAGE PLAN	SHEET #
			4 OF 16
		Rio Grande Engineering	JOB #
		1008 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87108 (505) 872-0996	2514

SCANNED BY 100

SCANNED BY 100



SECTION D-D

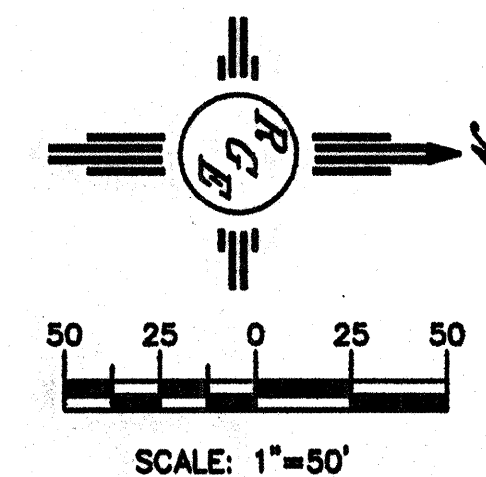


LEGEND

- PROPOSED SNGL. "A" INLET
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- BOUNDARY LINE
- EASEMENT
- PROPOSED SIDEWALK
- CENTERLINE
- RIGHT-OF-WAY
- LOT LINES
- STREET LIGHTS

KEYED NOTE:

- (A) 6" VALLEY GUTTER PER C.O.A. STD DWG #2420
- (B) 4" SIDEWALK TO BE DEFERRED
- (C) 6" SIDEWALK TO BE BUILT WITH THIS CONTRACT. PER C.O.A. STD DWG #2430
- (D) MOUNTABLE C&G PER C.O.A. STD DWG #2415A
- (E) STANDARD C&G PER C.O.A. STD DWG #2415A
- (F) HANDICAP RAMP SEE DETAIL THIS SHEET
- (G) ASPHALT CURB PER C.O.A. STD DWG #2415B
- (H) 4" SIDEWALK TO BE BUILT W/THIS PROJECT
- (I) DEFERRED STD CURB AND GUTTER PER C.O.A. STD DWG #2414A TO BE BONDED W/THIS PROJECT
- (J) DEFERRED 6" SIDEWALK TO BE BONDED W/THIS PROJECT PER C.O.A. STD DWG #2430
- (K) DEFERRED HANDICAP RAMP TO BE BONDED W/THIS PROJECT

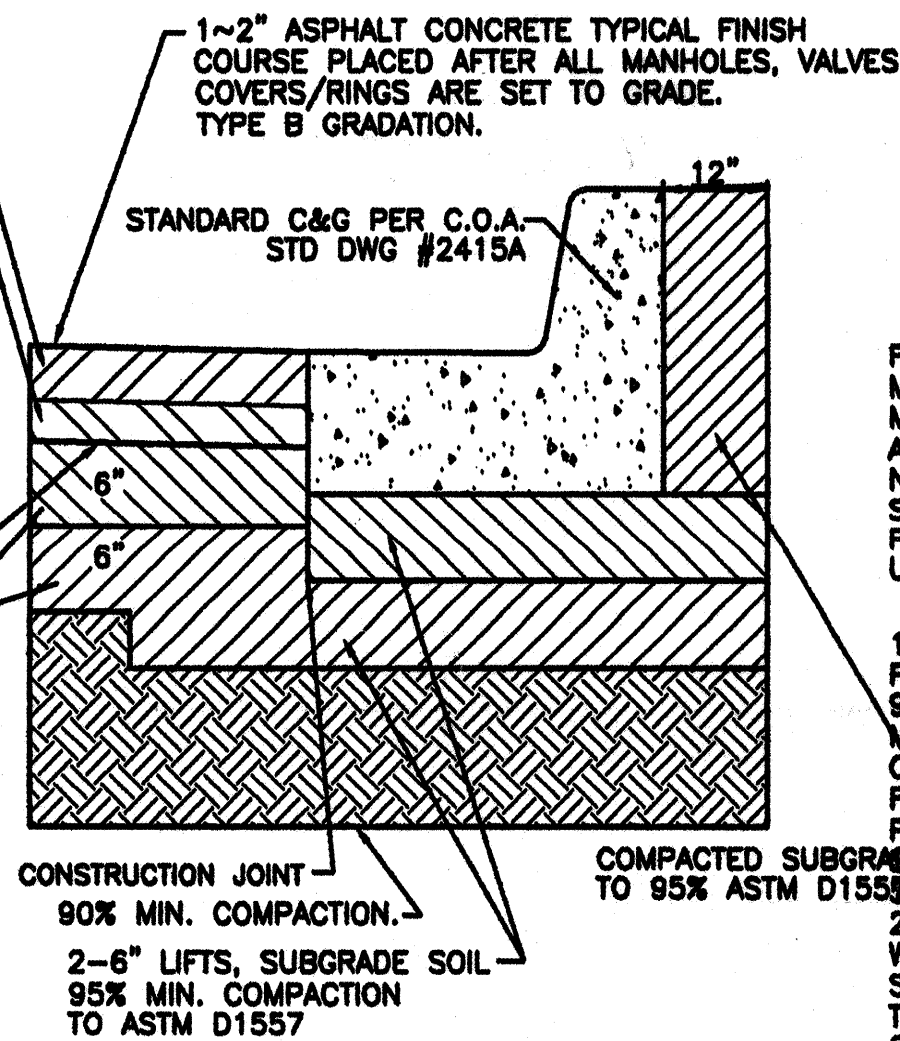


TACK COAT AS REQUIRED BY THE ENGINEER BETWEEN ALL ASPHALT/AGGREGATE MATERIAL LIFTS.

1~2" ASPHALT CONCRETE 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 ACCOMMODATING THE EXISTING R-VALUE PER C.O.A. STANDARD SPECIFICATIONS.



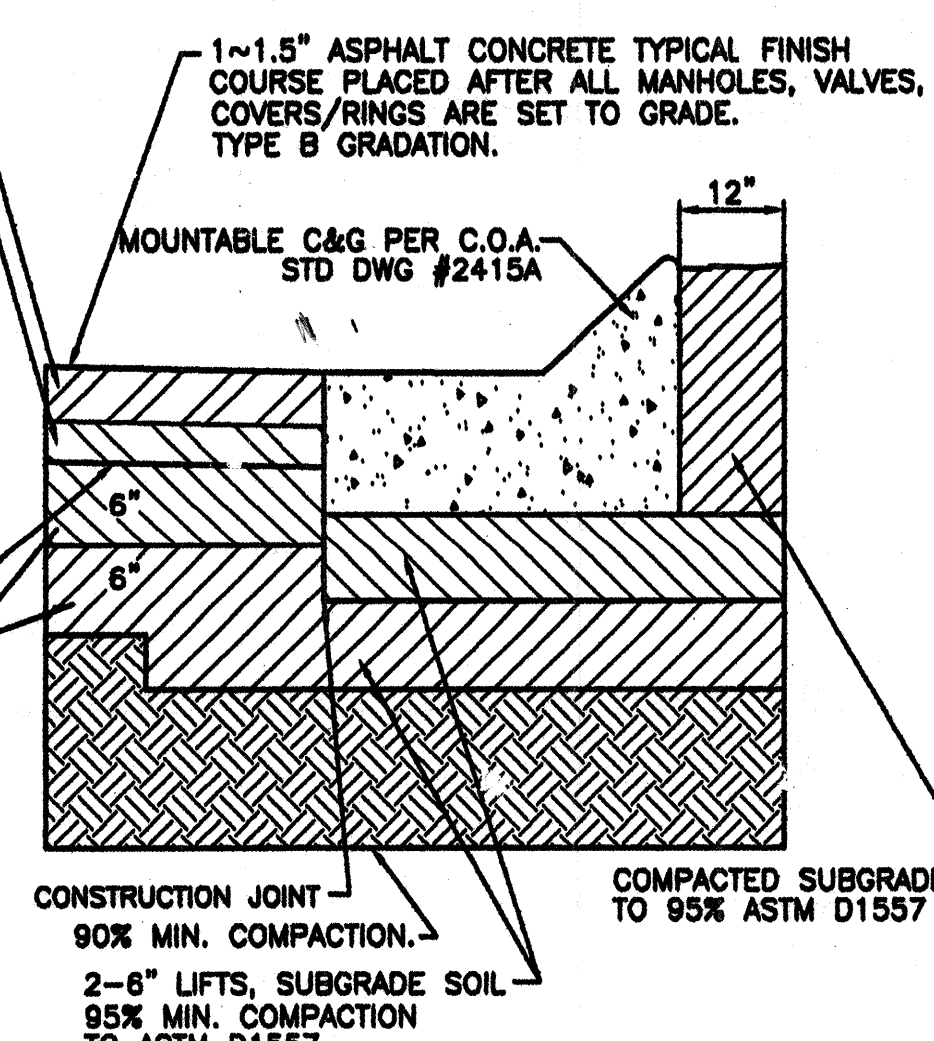
MAJOR LOCAL PAVING SECTION (STANDARD CURB)

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

1~2" ASPHALT CONCRETE TYPE B GRADATION.

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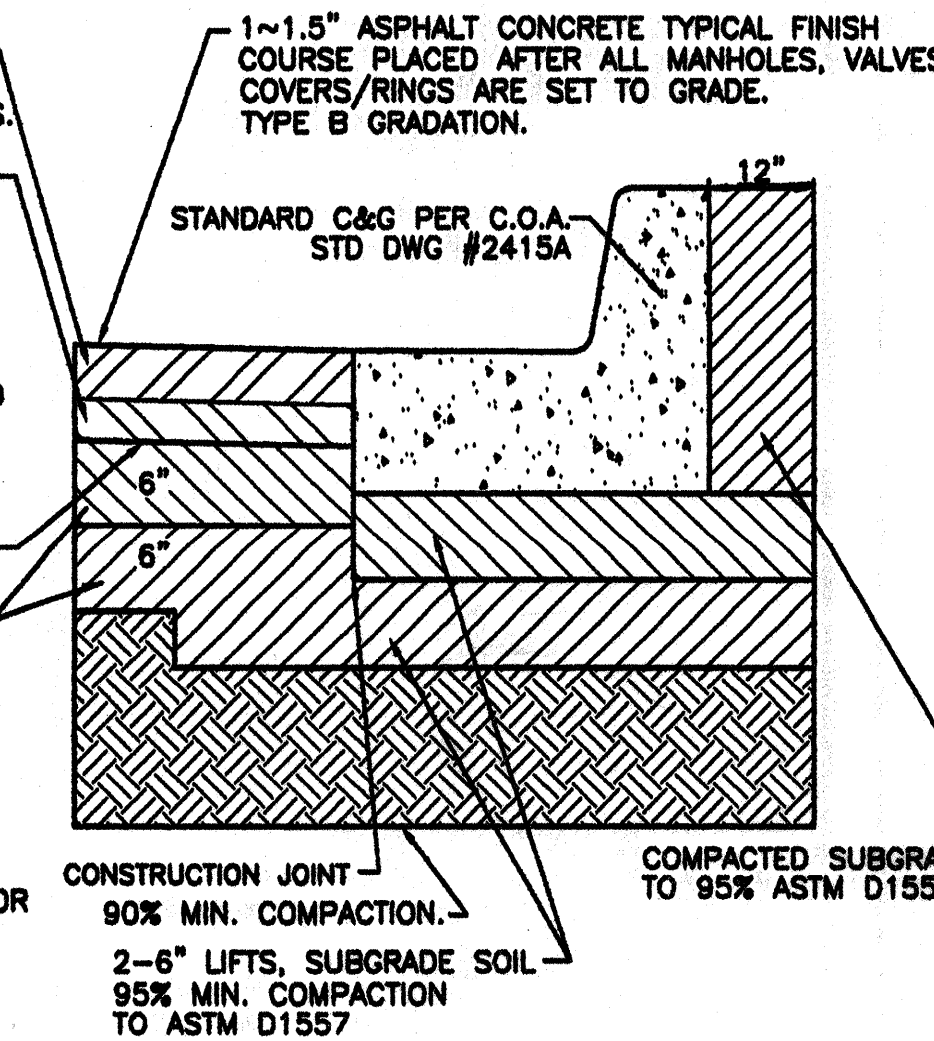
RESIDENTIAL PAVING SECTION (MOUNTABLE CURB)

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

1~2" ASPHALT CONCRETE 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.

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RESIDENTIAL PAVING SECTION (STANDARD CURB)

AS BUILT INFORMATION									
BENCH MARKS				SURVEY INFORMATION			ENGINEER'S SEAL		
ACS MONUMENT CENTRAL STATION				FIELD NOTES					
"6-J10"				DATE					
X=360389.13				NO.			BY		
Y=1492117.53				DATE			DATE		
DELTA/ALPHA=001608"				DATE			DATE		
ELEV=5117.133 NAVD 1929				DATE			DATE		
G/G=0.99967760				DATE			DATE		
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

**MESA DEL RIO SUBDIVISION
MASTER PAVING PLAN**

TITLE:

DESIGN REVIEW COMMITTEE
FEB - 1 2006
DESIGN REVIEW COMMITTEE

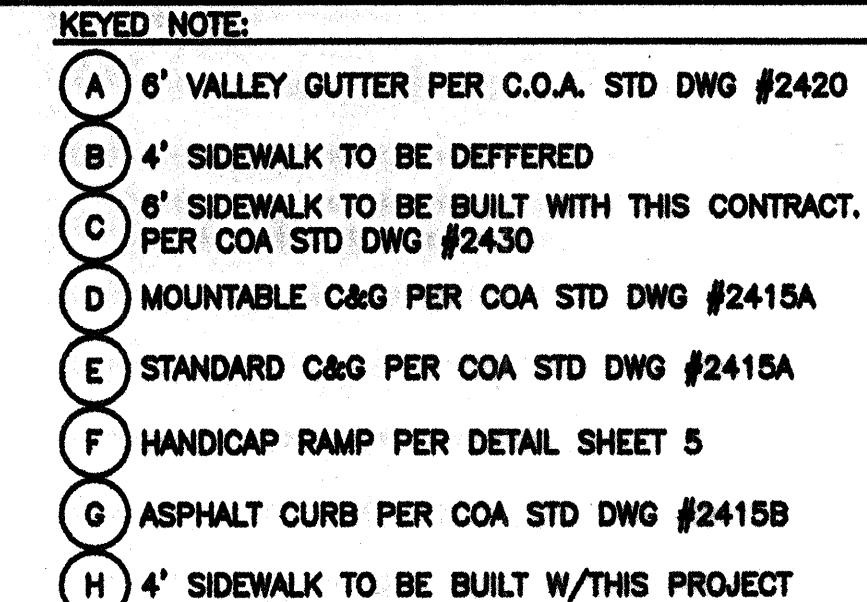
CITY ENGINEER APPROVAL
FEB 03 2006
CITY ENGINEER

CITY PROJECT NO. 774281

ZONE MAP NO. J-10-2

SHEET 5 OF 16

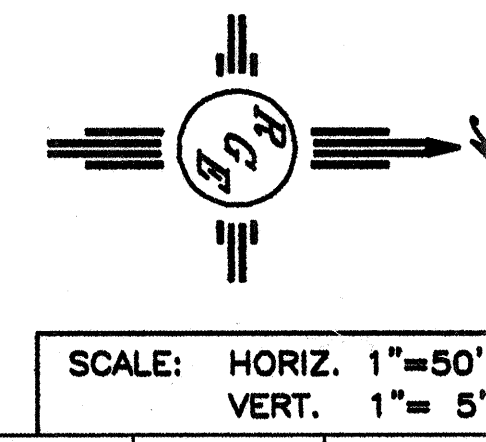
SCANNED
BY PCP



QUARTER POINTS			
C1	FL	ELEV.	
	1	5117.84	
	2	5118.01	
C3	3	5118.18	
	FL	ELEV.	
	7	5124.82	
C5	8	5124.86	
	9	5124.90	
	FL	ELEV.	
	13	5121.35	
C7	14	5121.12	
	15	5120.89	
	FL	ELEV.	
	18	5121.51	
C2	FL	ELEV.	
	4	5118.24	
	5	5118.36	
C4	6	5118.36	
	FL	ELEV.	
	10	5124.45	
C6	11	5124.10	
	12	5123.75	
	FL	ELEV.	
	16	5121.00	
C8	17	5121.35	
	18	5121.51	
	FL	ELEV.	
	19	5121.51	

NOTE: FL= 5125.16

1. SEE MASTER PAVING PLAN FOR STREET SECTIONS AND WHEELCHAIR RAMP TYPES.
2. TRANSITIONS FROM MOUNTABLE C&G TO STANDARD C&G IS THRU THE HC RAMPS UNLESS OTHERWISE NOTED PER C.O.A. STD DWG #2418.

[illegible][illegible]

	<i>Rio Grande Engineering</i>						DESIGNED BY _____
	1806 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87109 (505) 762-0882					NO.	DRAWN BY: _____ DRAWN NAME: _____ CHECKED BY: _____
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP							
TITLE:	MESA DEL RIO SUBDIVISION MESA DEL RIO STREET PAVING IMPROVEMENTS						
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.			
 DESIGN REVIEW COMMITTEE	 CITY ENGINEER						
CITY PROJECT NO. —	ZONE MAF NO. J-10-Z	SHEET 6	OF 16				

LINE	LENGTH	BEARING
L9	465.65	N00°38'17"E
L10	1042.80	S00°38'17"W
L11	464.64	N00°38'17"E

NOTE:

1. SEE MASTER PAVING PLAN FOR STREET SECTIONS AND WHEELCHAIR RAMP TYPES.
2. TRANSITIONS FROM MOUNTABLE C&G TO STANDARD C&G IS THRU THE HC RAMPS UNLESS OTHERWISE NOTED PER C.O.A. STD DWG #2418.

KEYED NOTE:

- (A) 6' VALLEY GUTTER PER C.O.A. STD DWG #2420
- (B) 4' SIDEWALK TO BE DEFERRED
- (C) DEFERRED 6' SIDEWALK TO BE BUILT WITH THIS CONTRACT.
PER COA STD DWG #2430
- (D) MOUNTABLE C&G PER COA STD DWG #2415A
- (E) DEFERRED STANDARD C&G PER COA STD DWG #2415A
- (F) HANDICAP RAMP PER SHEET 5
- (G) ASPHALT CURB PER COA STD DWG #2415B
- (H) 4' SIDEWALK TO BE BUILT W/THIS PROJECT
- (I) STANDARD C&G PER COA STD DWG #2415A

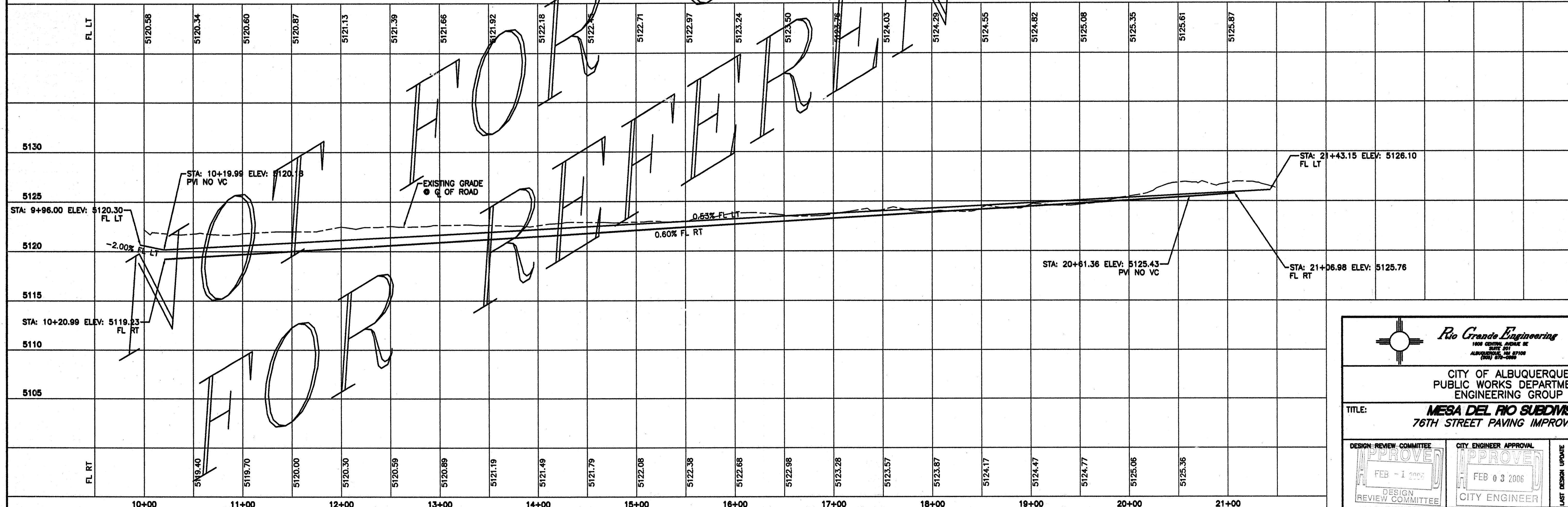
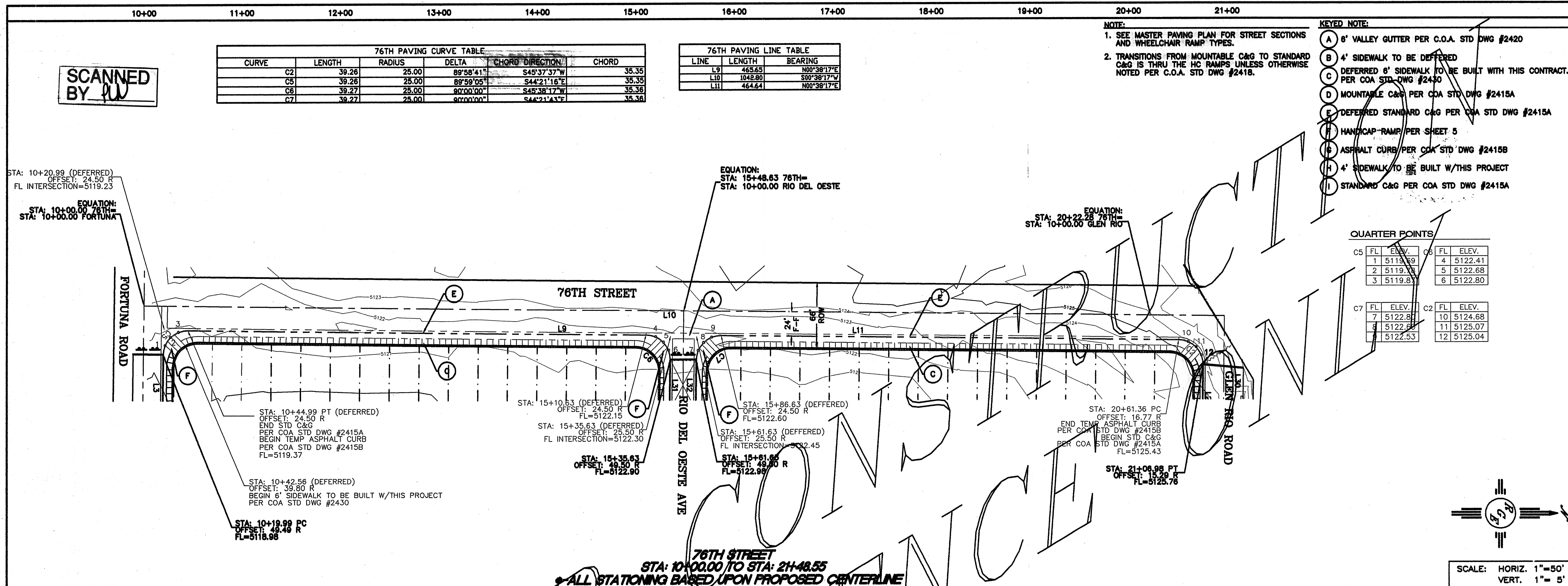
QUARTER POINTS

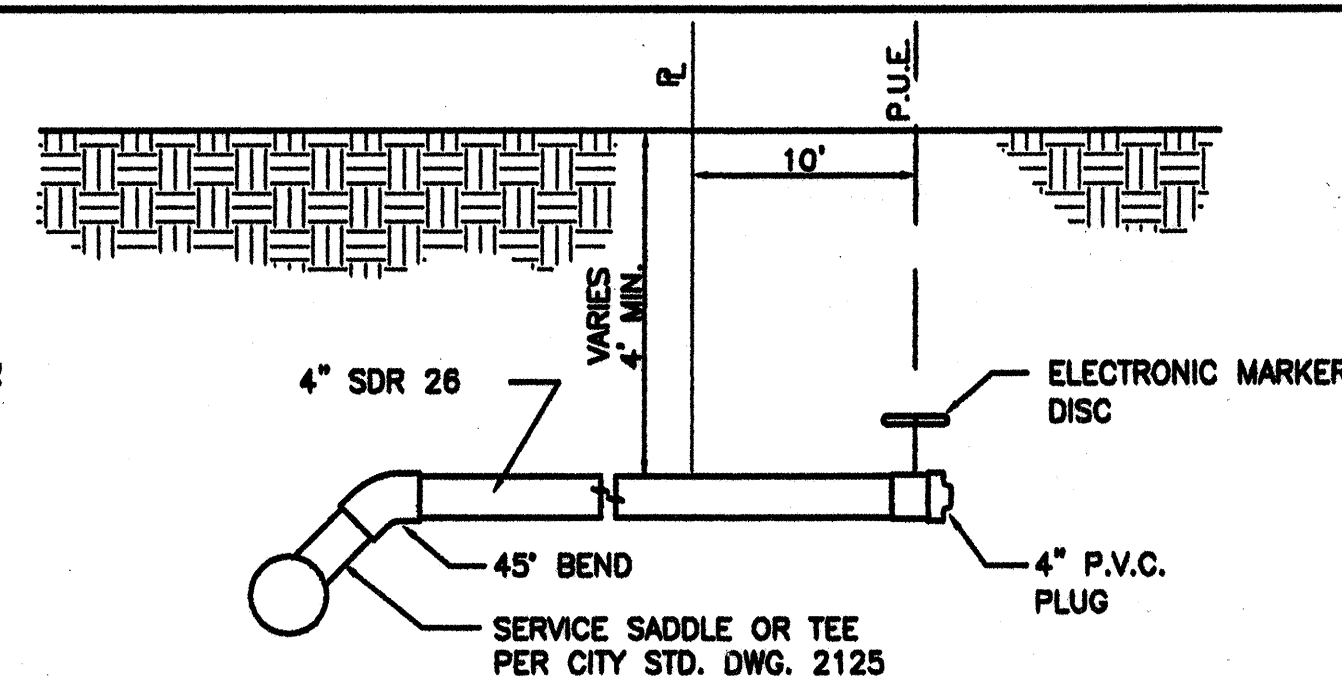
C5	FL	ELEV.
	1	5119.69
	2	5119.78
	3	5119.87

C6	FL	ELEV.
	4	5122.4
	5	5122.68
	6	5122.8

C7	FL	ELEV.
	7	5122.8
	8	5122.6
	9	5122.53

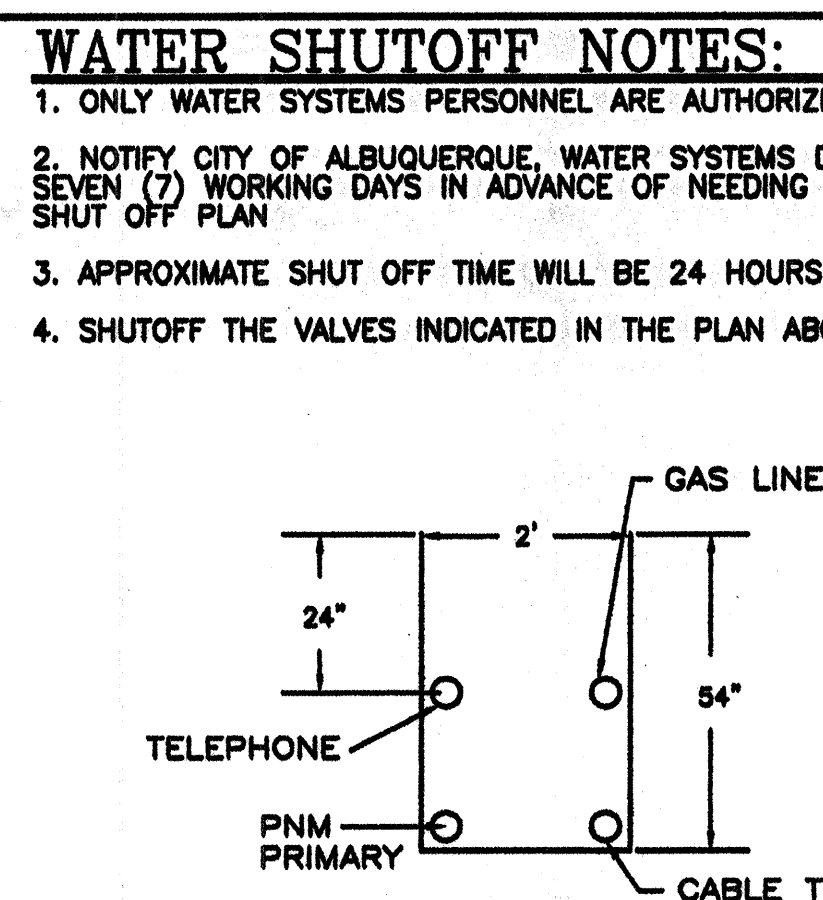
C2	FL	ELEV.
	10	5124.68
	11	5125.07
	12	5125.04

[illegible]

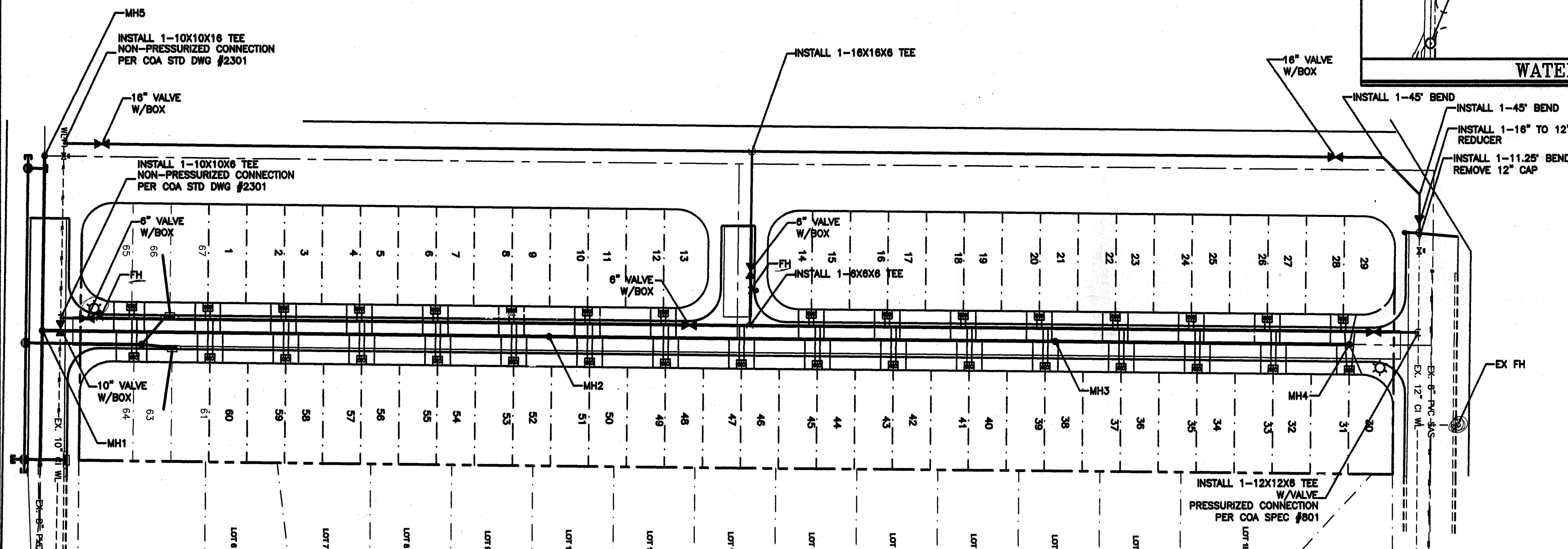


**TYP. SANITARY SYSTEM
SERVICE CONNECTION**

SCANNED
BY PLW



UTILITY TRENCH DETAIL



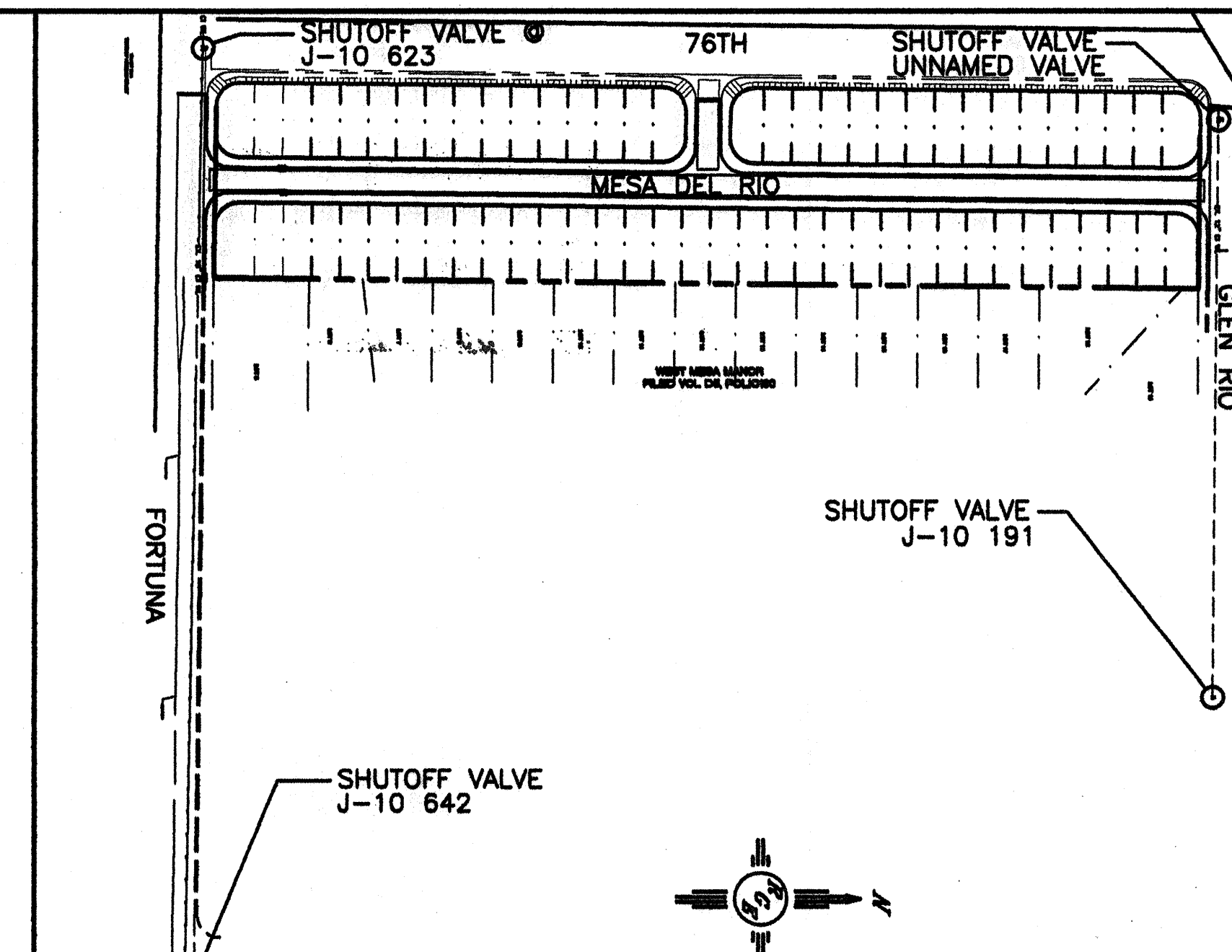
NOTICE TO CONTRACTORS

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, 1986, INCLUDING UPDATES 1 THROUGH 7.
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 SHALL DETERMINE LOCATION OF ANY UNDERGROUND FACILITY IN OR NEAR WORK AREAS, INCLUDING REQUESTS TO OWNERS/OPERATORS OF SAID FACILITIES PER SECTION 62-14-5 NMSA 1978.
9. CONTRACTOR SHALL PLAN ALL EXCAVATION TO MINIMIZE INTERFERENCE OR DAMAGE OF UNDERGROUND FACILITIES.
10. CONTRACTOR SHALL PROVIDE ADVANCE TELEPHONE NOTICE OF COMMENCEMENT, EXTENT AND DURATION OF ALL EXCAVATION WORK TO THE ONE-CALL NOTIFICATION SYSTEM, OR TO OWNERS/OPERATORS OF ANY EXISTING UNDERGROUND FACILITY IN OR NEAR THE EXCAVATION AREA THAT ARE NOT MEMBERS OF THE ONE-CALL NOTIFICATION CENTER, IN ORDER THAT OWNERS/OPERATORS MAY LOCATE AND MARK UNDERGROUND FACILITY PER SECTION 62-14-5 NMSA 1978 PRIOR TO ANY COMMENCEMENT OF WORK. CONTRACTOR SHALL REQUEST REAFFIRMATION OF LOCATION EVERY TEN (10) WORKING DAYS AFTER INITIAL REQUEST.

11. CONTRACTOR SHALL MAINTAIN EIGHTEEN (18) INCHES BETWEEN EXISTING UNDERGROUND FACILITIES THAT HAVE BEEN PREVIOUSLY IDENTIFIED AND MARKED BY THE OWNERS/OPERATORS OF SAID FACILITIES. CUTTING EDGE OR POINT OF ANY MECHANICAL EXCAVATING EQUIPMENT UTILIZED IN EXCAVATION AREA WILL BE USED IN A MANNER NECESSARY TO PREVENT DAMAGE TO EXISTING UNDERGROUND FACILITIES.
12. CONTRACTOR SHALL PROVIDE SUPPORT FOR EXISTING UNDERGROUND FACILITIES IN OR NEAR EXCAVATION AREA AS NECESSARY TO PREVENT DAMAGE TO SAID FACILITIES.
13. CONTRACTOR SHALL BACKFILL ALL EXCAVATIONS IN A MANNER AND WITH MATERIALS AS MAY BE NECESSARY TO PREVENT DAMAGE TO AND PROVIDE RELIABLE SUPPORT DURING AND FOLLOWING BACK FILLING ACTIVITIES FOR PREEXISTING UNDERGROUND FACILITIES IN OR NEAR EXCAVATION AREA.
14. CONTRACTOR SHALL IMMEDIATELY NOTIFY BY TELEPHONE THE OWNER/OPERATOR OF ANY UNDERGROUND FACILITY WHICH MAY HAVE BEEN DAMAGED OR DISLODGED DURING EXCAVATION WORK.
15. CONTRACTOR SHALL NOT MOVE OR OBLITERATE MARKINGS MADE PURSUANT TO CHAPTER 62, ARTICLE 14 NMSA 1978, OR FABRICATE MARKINGS IN A UNMARKED LOCATION FOR THE PURPOSE OF CONCEALING OR AVOIDING LIABILITY FOR VIOLATION OF OR NONCOMPLIANCE WITH THE PROVISIONS OF CHAPTER 62, ARTICLE 11 NMSA 1978.
16. EMD'S SHALL BE INSTALLED ON WATER LINE AND SANITARY SEWER LINE FACILITIES PER SECTION 170 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS 1986 EDITION AS REVISED THROUGH UPDATE #7.
17. THE WATER SYSTEMS DIVISION (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES, REFER TO SECTION 18 OF THE STANDARD SPECIFICATIONS.
18. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.6450 SUBPART P.

WATER SHUTOFF NOTES:

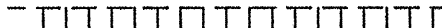
1. ONLY WATER SYSTEMS PERSONNEL ARE AUTHORIZED TO OPERATE VALVES.
2. NOTIFY CITY OF ALBUQUERQUE, WATER SYSTEMS DIVISION (PHONE 857-8200) SEVEN (7) WORKING DAYS IN ADVANCE OF NEEDING EXECUTION OF THE WATER SHUT OFF PLAN
3. APPROXIMATE SHUT OFF TIME WILL BE 24 HOURS.
4. SHUTOFF THE VALVES INDICATED IN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



WATER SHUTOFF PLAN:

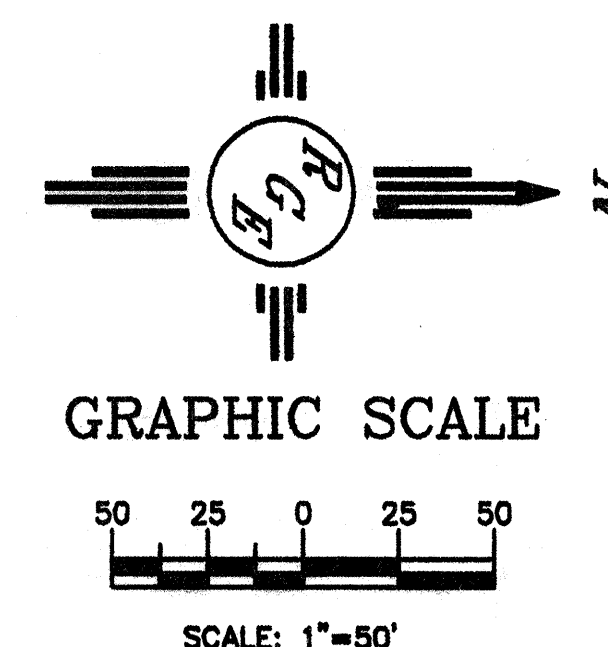
SHUTOFF VALVES
CIRCLED VALVES

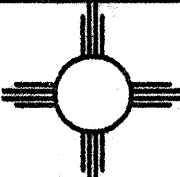
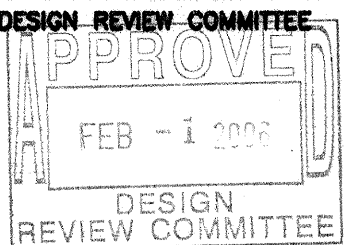
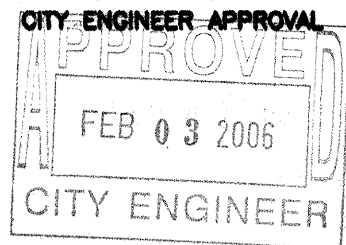
LEGEND

- | | |
|---|------------------------------|
|  | EXISTING SAS MANHOLE |
| --- -EX. 8" SAS--- | EXISTING SANITARY SEWER LINE |
|  | PROPOSED SAS MANHOLE |
|  | DIRECTION OF FLOW |
|  8" SAS | PROPOSED SANITARY SEWER LINE |
|  | SANITARY SEWER SERVICE LINE |
|  | EXISTING VALVE W/BOX |
|  | EXISTING FIRE HYDRANT |
| --- -EX. 12" WL--- | EXISTING WATER LINE |
|  | PROPOSED METER |
|  | PROPOSED VALVE W/BOX |
|  | PROPOSED FIRE HYDRANT |
|  8" WL | PROPOSED WATER LINE |
|  | WATER SERVICE LINE |
| ===== | EXISTING CURB & GUTTER |
| ===== | PROPOSED CURB & GUTTER |
|  | BOUNDARY LINE |
| ----- | EASEMENT |
|  | PROPOSED SIDEWALK |
|  | EXISTING SIDEWALK |
| ----- | CENTERLINE |
|  | RIGHT-OF-WAY |
|  | LOT LINES |
|  | STREET LIGHTS |

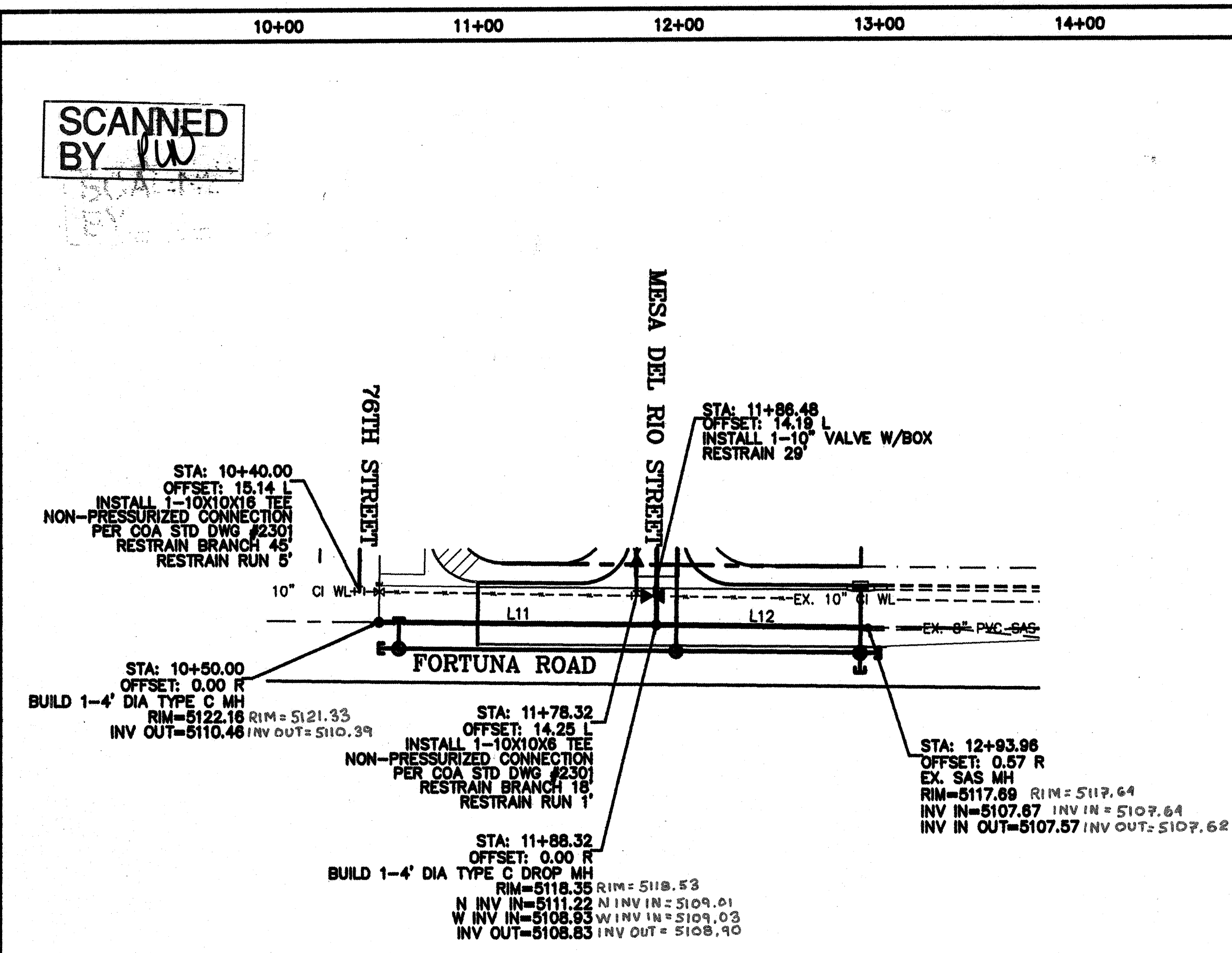


AFD PLANS CHECKING OFFICE
024 3611
APPROVED/DISAPPROVED
HYDRAINT(S) ONLY
Steven Williams - 1-29-06
SIGNATURE & DATE



	<i>Rio Grande Engineering</i> 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87108 (505) 276-5088		DATE _____ NO. _____	DESIGNED BY _____ DRAWN BY _____ DRAWN NAME _____
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP				
TITLE: <i>MESA DEL RIO SUBDIVISION</i> <i>MASTER UTILITY PLAN</i>				
DESIGN REVIEW COMMITTEE 	CITY ENGINEER APPROVAL 	LAST DESIGN UPDATE _____ _____ _____ _____	MO./DAY/YR. _____ _____ _____ _____	MO./DAY/YR. _____ _____ _____ _____
CITY PROJECT NO. 774281	ZONE MAP NO. 1-10-7	SHEET 10 OF 16		

SCANNED BY *WU*

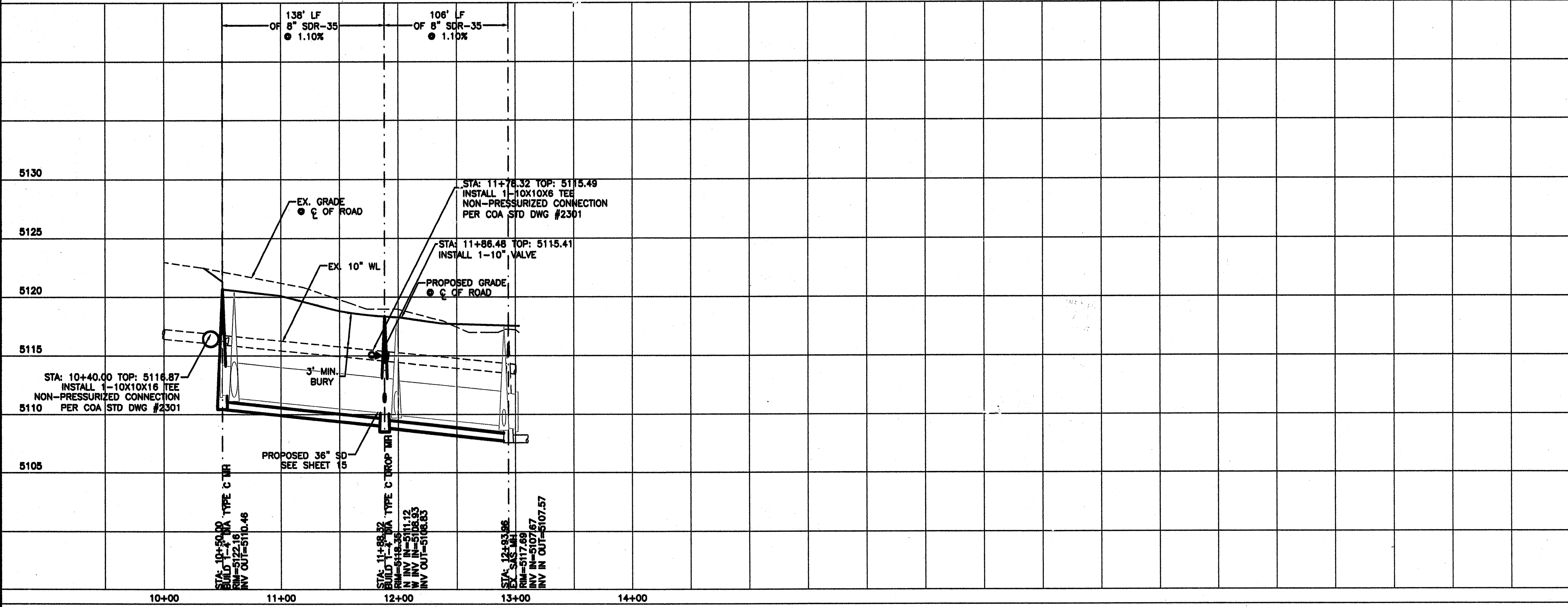


FORTUNA UTILITY LINE TABLE		
LINE	LENGTH	BEARING
L11	138.38	S89°20'48"E
L12	105.64	S89°02'17"E

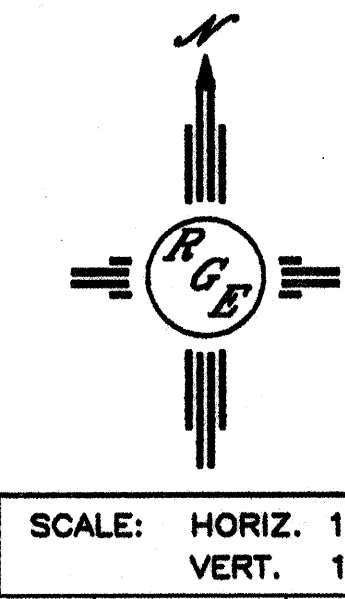
NOTE:
1. SEE MASTER UTILITY PLAN FOR SANITARY SEWER SERVICE CONNECTION DETAILS.
2. ALL FIRE HYDRANTS ARE TO BE BUILT PER C.O.A. STD DWG #2340 FULLY RESTRAINED
3. ALL EXISTING UTILITY CONNECTION LOCATIONS AND INVERTS MUST BE FIELD VERIFIED PRIOR TO AND CONSTRUCTION OF UTILITIES.

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.

FORTUNA ROAD
STA: 10+00.00 TO STA: 13+03.21
•ALL STATIONING BASED UPON PROPOSED CENTERLINE



I, CHRISTOPHER A. MEDINA, N.M.E.L.S. NO. 15702, DO HEREBY CERTIFY THAT THE AS-BUILT INFORMATION SHOWN AND THE ACTUAL SURVEY WHICH IT WAS DERIVED FROM WAS PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THE INFORMATION SHOWN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
Christopher A. Medina 4/26/06
CHRISTOPHER A. MEDINA, N.M.E.L.S. NO. 15702 DATE



AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
TERRA LAND SURVEYS, L.L.C.	ACS MONUMENT CENTRAL STATION	NO.	BY	DATE	DATE		REVISIONS
P.O. BOX 2552	"6-J10"	DATE	DATE	DATE	DATE		
CORRALES, NM 87049	X=360388.13					NO.	DATE
	Y=1492117.53					DESIGNED BY: WCMU	DATE: 9-16-05
	DELTA/ALPHA=-0016'06"					DRAWN BY: WCMU	DATE: -16-05
	ELEV=5117.133 NAVD 1929					DRAWN NAME: 2514-DRC-8-15-05X.DWG	JOB NO.: 2514
	G/G=0.99967760					CHECKED BY: DS	DATE: 9-16-05

		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE:		MESA DEL RIO SUBDIVISION FORTUNA ROAD UTILITY IMPROVEMENTS	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
FEB - 1 2006	FEB 03 2006		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
CITY PROJECT NO. 774281	ZONE MAP NO. J-10-Z	SHEET 12	OF 16

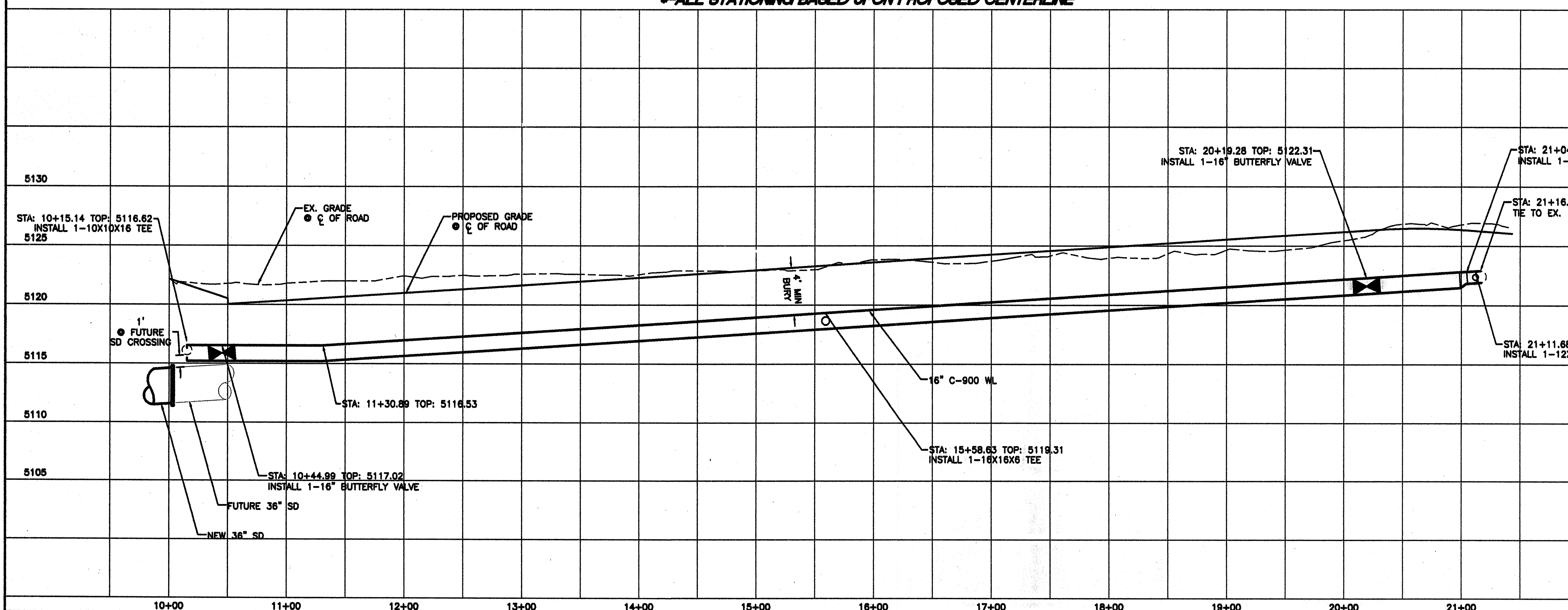
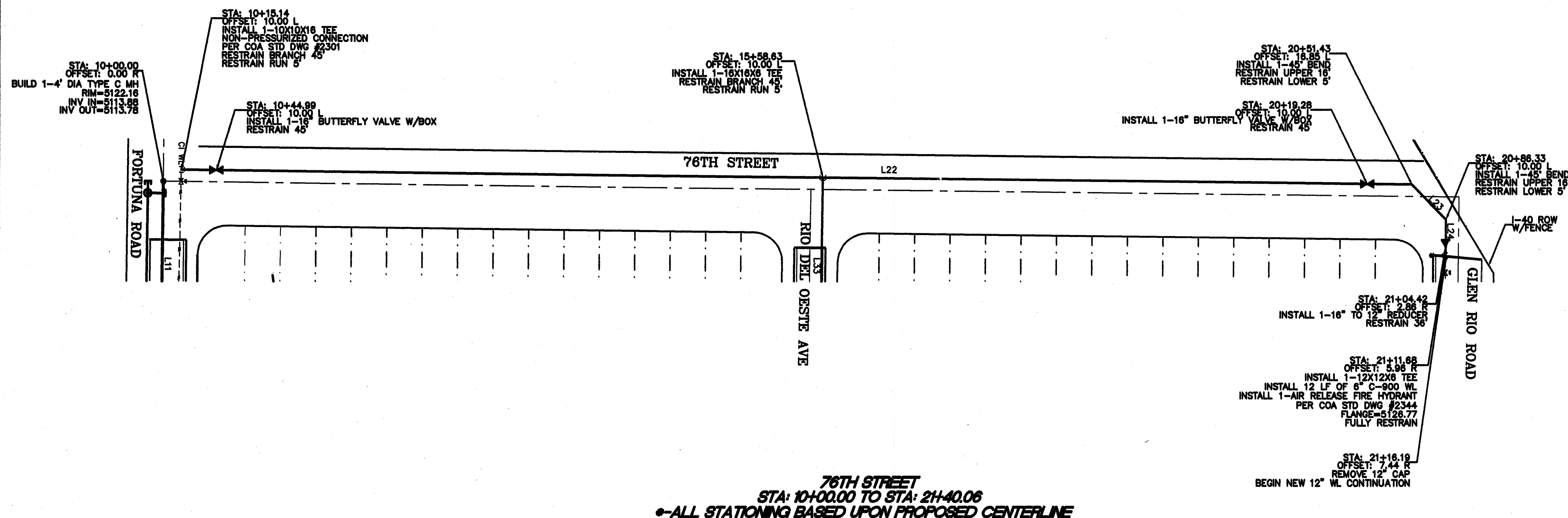
SCANNED BY PLN

LINE	LENGTH	BEARING
L22	1061.37	N00°38'17"E
L23	41.32	S45°31'05"W
L24	44.67	N89°28'55"W

CAUTION:
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NECESSARY FIELD INVESTIGATIONS PRIOR
TO ANY EXCAVATION TO DETERMINE THE
ACTUAL LOCATION OF UTILITIES & OTHER
IMPROVEMENTS.

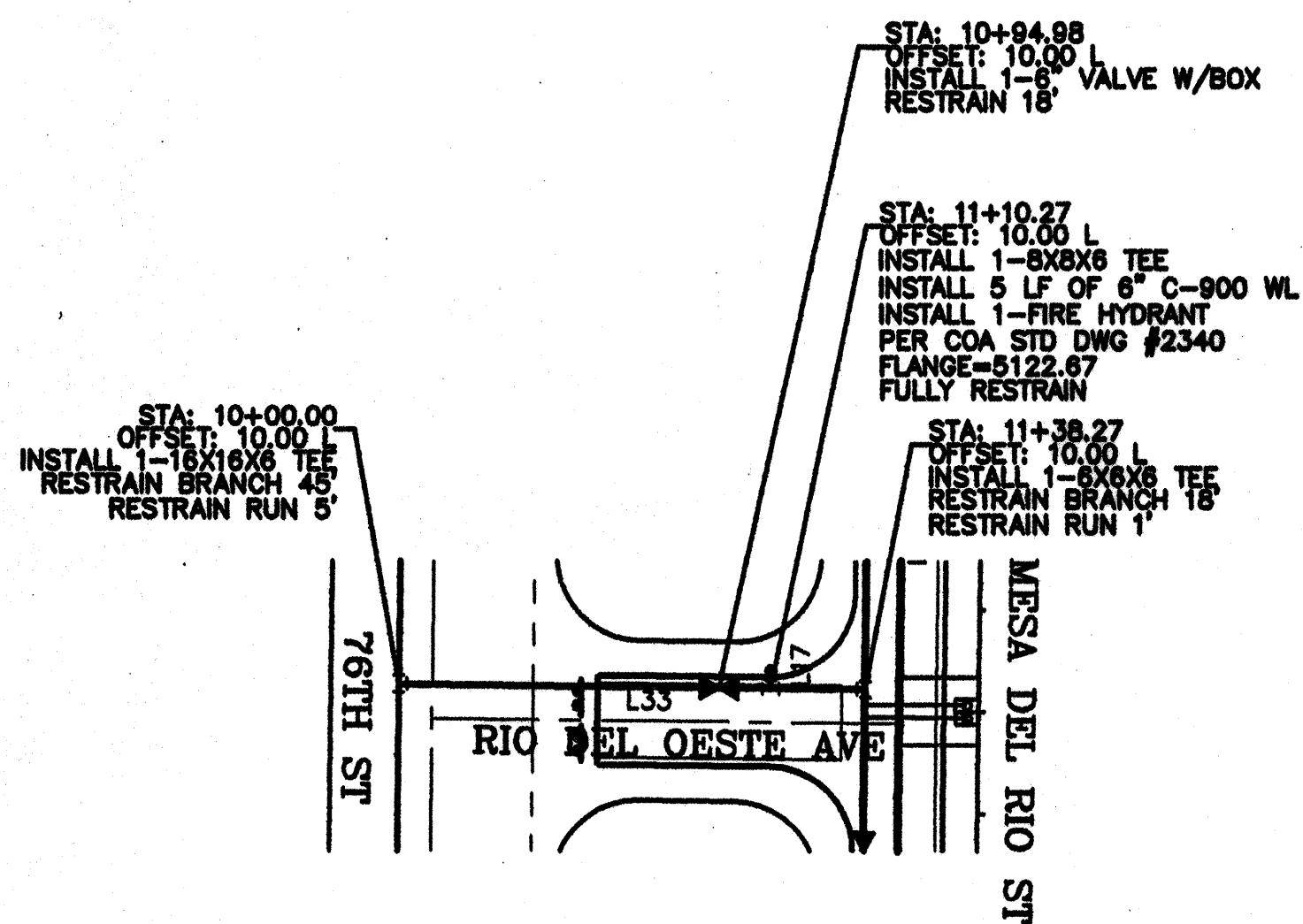
NOTE:

1. SEE MASTER UTILITY PLAN FOR SANITARY SEWER SERVICE CONNECTION DETAILS.
2. ALL FIRE HYDRANTS ARE TO BE BUILT PER C.O.A. STD DWG #2340 FULLY RESTRAINED
3. ALL EXISTING UTILITY CONNECTION LOCATIONS AND INVERTS MUST BE FIELD VERIFIED PRIOR TO AND CONSTRUCTION OF UTILITIES.



	Rio Grande Engineering 1004 CENTRAL AVENUE SE SUITE 301 ALBUQUERQUE, NM 87106 (505) 675-3986															
									DESIGNED BY:							
									DRAWN BY:							
									CHECKED BY:							
									DRAWN NAME:							
									CHECKED NAME:							
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP																
TITLE: <i>MESA DEL RIO SUBDIVISION</i> <i>76TH STREET UTILITY IMPROVEMENTS</i>																
DESIGN REVIEW COMMITTEE 				CITY ENGINEER APPROVAL 				LAST DESIGN UPDATE		MO./DAY/YR.			MO./DAY/YR.			
CITY PROJECT NO. 274281				ZONE MAP NO. J-10-N				SHEET		13			OF		16	

SCANNED
BY *PLN*



RIO DEL OESTE UTILITY LINE TABLE		
LINE	LENGTH	BEARING
L33	138.27	S89°21'43"E
L17	5.00	N00°38'17"E

ARISTOTELIS MEDINA N.M.E.L.S. NO 15702

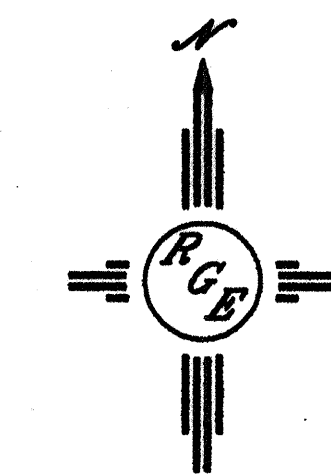
NOTE:

1. ALL EXISTING UTILITY CONNECTION LOCATIONS
AND INVERTS MUST BE FIELD VERIFIED PRIOR TO
AND CONSTRUCTION OF UTILITIES.

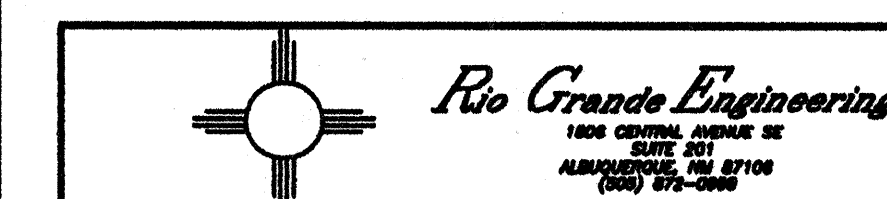
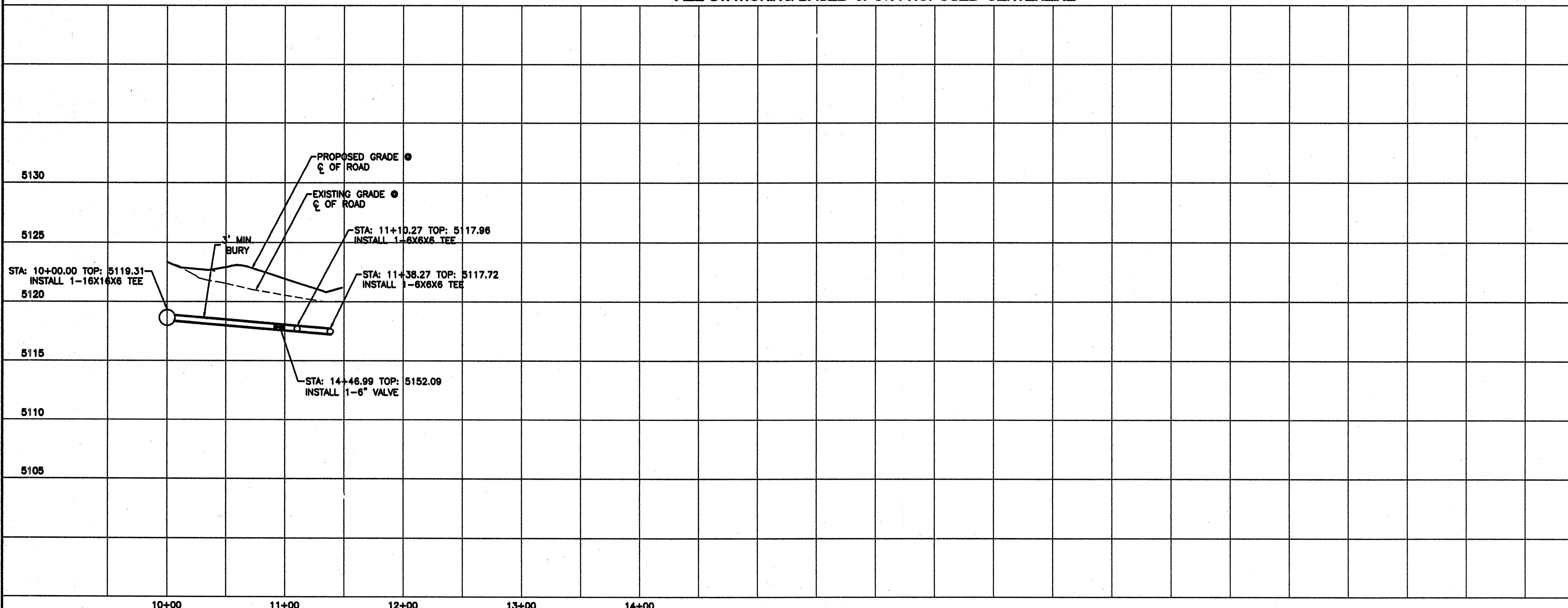
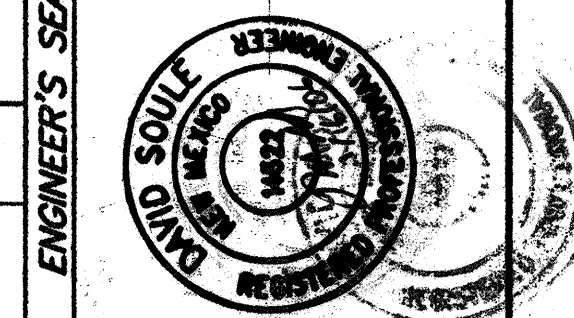
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ACTUAL LOCATION OF UTILITIES & OTHER
IMPROVEMENTS.

RIO DEL OESTE AVENUE
STA: 10+00.00 TO STA: 11+48.28
•-ALL STATIONING BASED UPON PROPOSED CENTERLINE

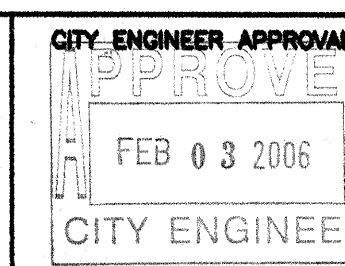
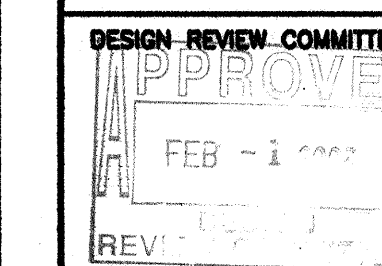


SCALE: HORIZ. 1"=50'
VERT. 1"= 5'



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **MESA DEL RIO SUBDIVISION**
RIO DEL OESTE AVENUE UTILITY IMPROVEMENTS



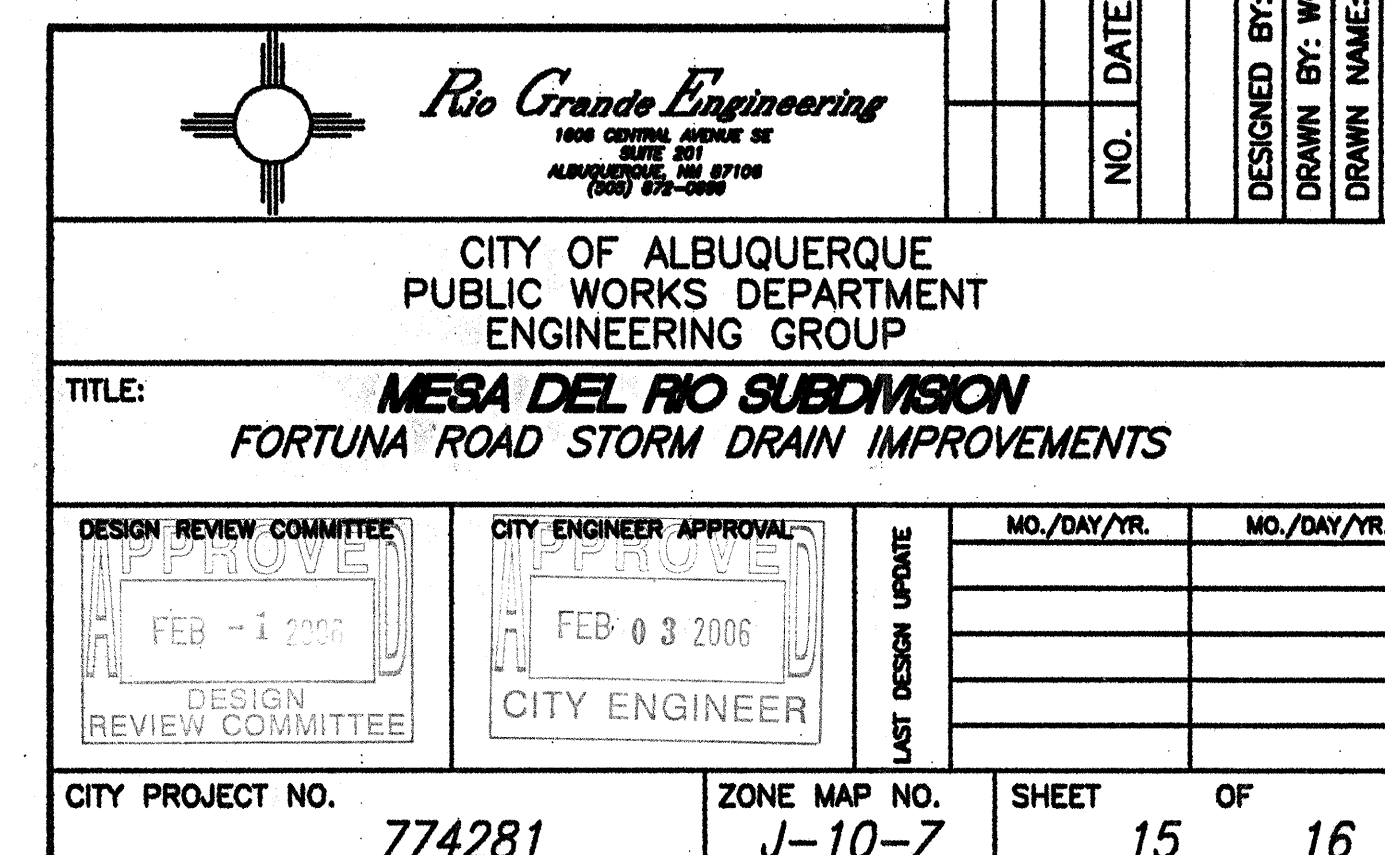
NO./DAY/YR.	NO./DAY/YR.

CITY PROJECT NO. **774281** ZONE MAP NO. **J-10-Z** SHEET **14** OF **16**

10+00	11+00	12+00	13+00
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I, CHRISTOPHER A. MEDINA, N.M.P.L.S. NO. 15702, DO HEREBY CERTIFY THAT THE AS-BUILT INFORMATION SHOWN AND THE ACTUAL SURVEY WHICH IT WAS DERIVED FROM WAS PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THE INFORMATION SHOWN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

FORTUNA ROAD
STA: 10+00.00 TO STA: 13+00.00
•-ALL STATIONING BASED UPON PROPOSED CENTERLINE



10+00	11+00	12+00	13+00
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I, CHRISTOPHER A. MEDINA, N.M.P.L.S. NO. 15702, DO HEREBY CERTIFY THAT THE AS-BUILT INFORMATION SHOWN AND THE ACTUAL SURVEY WHICH IT WAS DERIVED FROM WAS INFORMED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THE INFORMATION SHOWN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Christopher A. Medina 4/26/06
CHRISTOPHER A. MEDINA, N.M.P.L.S. NO. 15702 DATE

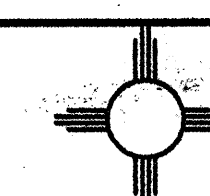


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TO ANY EXCAVATION TO DETERMINE THE
ACTUAL LOCATION OF UTILITIES & OTHER
IMPROVEMENTS.



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

91' LF	24' LF
OF 24" CLASS IV RCP	OF 18" CLASS IV RCP
● 3.44%	● 0.60%
Q=13 CFS	Q=8.5 CFS
V=5.32 FPS	V=3.65 FPS

[illegible]

Pio Grande Engineering
1808 CENTRAL AVENUE SE
SUITE 201
ALBUQUERQUE, NM 87106
(505) 872-0888

CITY OF ALBUQUERQUE	
PUBLIC WORKS DEPARTMENT	
ENGINEERING GROUP	
TITLE:	MESA DEL RIO SUBDIVISION <i>MESA DEL RIO STREET STORM DRAIN IMPROVEMENTS</i>

			MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO.	774281	ZONE MAP NO.	J-10-7	SHEET	16	OF	16
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