

LEGEND

MATERIALS	
CONCRETE	
RIP-RAP	
LINES	
SUBDIVISION BOUNDARY	
PROPERTY LINE (PLAN)	
PROPERTY LINE (SECTION)	
CENTERLINE	
EASEMENT LINE	
MATCH LINE	
SECTION CUT LINE	
EARTHWORK	
CONTOUR LINE	
SPOT ELEVATION	
PROJECT / PHASE BOUNDARY	
FLOWLINE	
DIRECTION OF FLOW	
MISCELLANEOUS UTILITIES	
GAS LINE	
UNDERGROUND TELEPHONE	
UNDERGROUND ELECTRICAL	
STORM DRAIN	
STORM DRAIN MANHOLE	
STORM DRAIN INLET	
SANITARY SEWER	
VACUUM SEWER LINE	
VACUUM VALVE PIT	
VACUUM DIVISION VALVE	
SANITARY SEWER LINE	
SANITARY SEWER MANHOLE	
SAS SERVICE CONNECTIONS	
SAS CAP OR PLUG	
ENCASEMENT	
WATER	
WATER LINE	
WATER SERVICE CONNECTIONS	
GATE VALVE	
FIRE HYDRANT	
BUTTERFLY VALVE	
REDUCER	
WATER PRESSURE ZONE BOUNDARY	
WATER FITTINGS	
CAPS AND PLUGS	
ELBOW	
CROSS	
TEE	
MISCELLANEOUS	
CHAINLINK FENCE	
FIELD FENCE	
COMMON YARD WALL	
RETAINING WALL	
POWER OR TELEPHONE POLE	

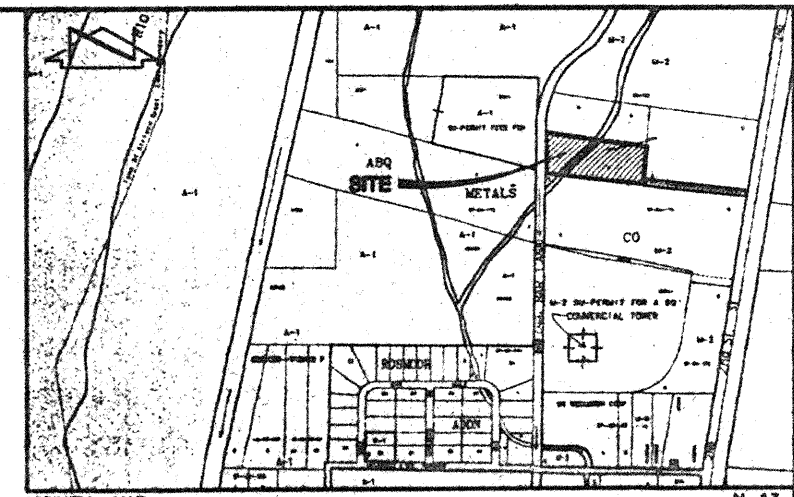
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26-6498-81-2011

SCANNED BY
PLANNING

CONSTRUCTION PLANS
for
LAFARGE SOUTH VALLEY SITE
PUBLIC WATER AND
SANITARY SEWER
LINE EXTENSIONS
BERNALILLO COUNTY, NEW MEXICO
NOVEMBER, 2000

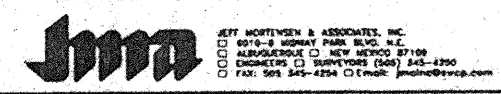
INDEX OF DRAWINGS

SHEET	DESCRIPTION
1	COVER SHEET, VICINITY MAP, GENERAL NOTES, LEGEND AND INDEX OF DRAWINGS
2, 3	SURVEY
4, 5	GRADING PLAN
6	SITE PLAN
7	LINE 'A' STA 9+23.88 TO STA 18+40.00 WATER AND SANITARY SEWER LINE EXTENSIONS PLAN AND PROFILE
8	LINE 'A' STA 18+40.00 TO STA 25+76.20 WATER AND SANITARY SEWER LINE EXTENSIONS PLAN AND PROFILE
9	LINE 'B' STA 9+23.70 TO STA 16+00.00 WATER LINE EXTENSION PLAN AND PROFILE
10	TRAFFIC CONTROL PLAN
11	SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS
12	TRAFFIC CONTROL & SIGNING EXAMPLES



- VICINITY MAP**
SCALE: 1" = 750'
- 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-PUBLIC WORKS CONSTRUCTION-1985 - UPDATE NO. 6, OR BERNALILLO COUNTY STANDARDS, WHICHEVER ARE MORE STRINGENT.
 - TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
 - IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF ANY EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
 - SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
 - THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
 - ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
 - ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
 - BACKFILL AND COMPACTION WITHIN COUNTY RIGHT-OF-WAY AND/OR EASEMENT SHALL BE 95% ASTM D-1557 FOR THE FULL DEPTH OF TRENCH PER COUNTY STANDARD DRAWING 2465.
 - TACK COAT REQUIREMENTS SHALL BE DETERMINED DURING CONSTRUCTION BY THE PROJECT ENGINEER.
 - SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
 - IF CURB IS DEEPENED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
 - ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
 - CONTRACTOR SHALL COORDINATE WITH THE WATER SYSTEM DIVISION FOR THE EXECUTION OF THE VALVE SHUT OFF PLAN, NOT LESS THAN FIVE (5) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT THE EXISTING PUBLIC WATER UTILITIES. ONLY WATER SYSTEM DIVISION PERSONNEL SHALL OPERATE EXISTING VALVES. REFER TO SECTION 18 OF THE SPECIFICATION. THE WATER SYSTEM DIVISION PHONE NUMBER IS 857-8200.
 - CONTRACTOR SHALL NOTIFY THE CITY SURVEYOR NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF 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 SPECIFICATIONS.
 - FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION CO-ORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE CONSTRUCTION CO-ORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. CONTRACTOR MUST REFER TO SECTION 19 OF THE STANDARD SPECIFICATION FOR TRAFFIC CONTROL.
 - ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED STRIPING BY CONTRACTOR TO EXISTING LOCATION OR AS INDICATED BY THIS PLAN SET.
 - THIS PROJECT IS TO BE CONSTRUCTED UNDER, AND IS SUBJECT TO THE TERMS AND CONDITIONS OF THE MASTER UTILITY EASEMENT AND RIGHT-OF-WAY AGREEMENT ENTERED INTO BETWEEN THE COUNTY OF BERNALILLO AND THE CITY OF ALBUQUERQUE, EFFECTIVE DATE 8/20/90.
 - CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
 - ALL WORK OCCURRING WITHIN AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
 - CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

2000.031.3

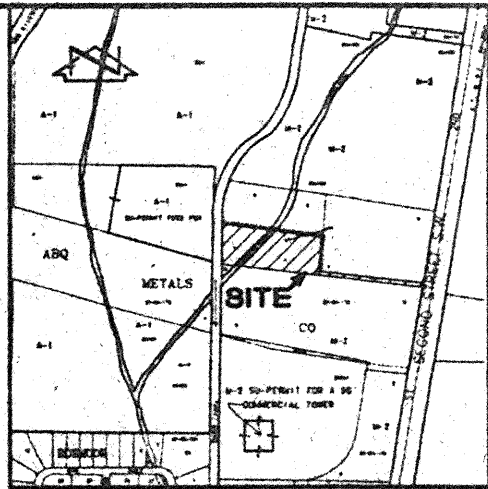


REV.	SHEETS	CITY ENGINEER	DATE	USER	DEPARTMENT	DATE	USER	DEPARTMENT	DATE
10	N/A	01/2001							
10	N/A	01/2001							
10	N/A	01/2001							
ENGINEERS STAMP & SIGNATURE									
01-75-2001 02-09-2001		APPROVALS		ENGINEER		DATE		*****	
		DRC Chairman		K. R. J. J.		2-4-01		APPROVED FOR CONSTRUCTION	
		Transportation		R. J. J.		2-11-00			
		Water/Wastewater		G. S. J.		12-11-00			
		Hydrology		B. J. J.		12-11-00			
		R.M.S.A.T.D.							
		Const. Mngmt.							
		Const. Coord.		N/A		2-4-01			
City Project No. 649881				SHEET 1 OF 12					

Plot Date: 11-27-2000
Plot Time: 08:21 am
File Path: \\wmsat\planning\2000\031\CVI.DWG
File Name: 031 CVI.DWG

PROJECT BENCHMARK
ACS 3 1/4" ALUMINUM CAP STAMPED "1-N14, 1987",
RIVETED TO A PIPE LOCATED 53.4' EAST OF SECOND
STREET S.W. NEAR THE FORK OF TWO RAILROAD TRACKS
APPROXIMATELY 1/2 MILE NORTH OF RIO BRAVO
BOULEVARD S.W. SEE THIS SHEET
ELEVATION = 4931.78 FEET (M.S.L.D.)
T.B.M.
TOP OF REBAR AND CAP STAMPED "LS 4078" AT THE
SOUTHWEST CORNER OF TRACT A, SEE SHEET TWO
ELEVATION = 4932.60 FEET (M.S.L.D.)

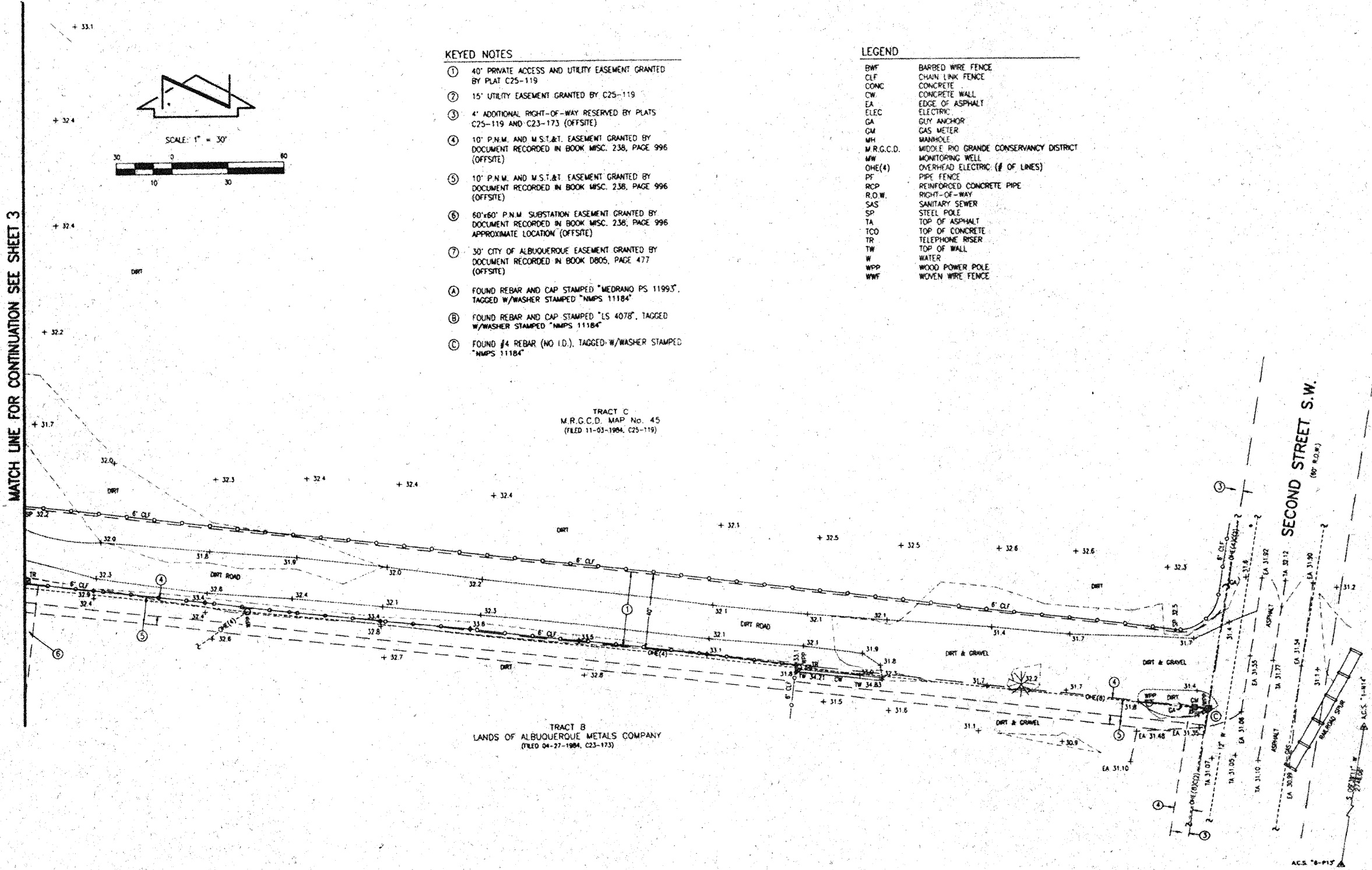
BOUNDARY TABLES		
LINE	DIRECTION	DISTANCE
L1	N 00°16'04" W	50.88'
(L1)	N 00°20'45" W	50.84'
L2	S 89°46'12" W	19.95'
(L2)	S 89°39'15" W	20.00'



VICINITY MAP
SCALE: 1" = 750'
N-13

LEGAL DESCRIPTION
Tract A, M.R.G.C.D. Map No. 45, Bernalillo County, New Mexico as the same is
shown and designated on the Replot of Tract 25-A-2, M.R.G.C.D. Map No. 45, filed
in the Office of the County Clerk of Bernalillo County, New Mexico on
November 13, 1984, Book C25, Page 119.

- Notes:
- A boundary and topographic survey was performed in June and July, 2000. Property corners were found as indicated.
 - All distances are ground distances.
 - Site located within Section 6, Township 9 North, Range 3 East, N.M.P.M.
 - Bearings shown hereon are New Mexico State Plane Grid Bearings, Central Zone (NAD-1927).
 - Record bearings and distances are shown in parenthesis and are based upon the survey referenced in Note 7a.
 - Utility information shown hereon is based upon onsite surface evidence. Utility lines shown on this drawing are shown in an approximate manner only and such lines may exist where none are shown. If any such existing lines are shown, the location is based upon information provided by the owner of said utility, and the information may be incomplete, or may be obsolete by the time construction commences. The surveyor has conducted only preliminary investigation of the location, depth, size, or type of existing utility lines, pipelines, or underground utility lines. This investigation is not conclusive and may not be complete, therefore, makes no representation pertaining thereto, and assumes no responsibility or liability therefor. The property owner, developer, or contractor shall inform itself of the location of any utility line, pipeline, or underground utility line in or near the area of the work in advance of and during excavation work. The property owner, developer, or contractor is fully responsible for any and all damage caused by its failure to locate, identify and preserve any and all existing utilities, pipelines, and underground utility lines. In planning and conducting excavation, the contractor shall comply with state statutes, municipal and local ordinances, rules and regulations, if any, pertaining to the location of these lines and facilities.
 - The following documents and instruments were used for the performance and preparation of this survey:
 - Plot of M.R.G.C.D. Map No. 45, filed 11-03-1984, Book C25, Page 119, Records of Bernalillo County, New Mexico.
 - Plot of Lands of Albuquerque Metals Company, filed 04-27-1984, Book C23, Page 173, Records of Bernalillo County, New Mexico.
 - ALTA/ACSM Land Title Survey prepared by Precision Surveys, Inc. dated July, 2000 (unrecorded).
 - Commitment No. 02333 prepared by Rio Grande Title Company, Inc. dated March 01, 2000.
 - The property surveyed hereon may be subject to the Logunitas Ditch as depicted on Bernalillo County Zone Atlas N-13. No physical evidence of said ditch was observed during this survey.



SURVEYOR'S CERTIFICATION
I, Charles G. Colo, Jr., a registered Professional Surveyor under the laws of the State of New Mexico
do hereby certify that I conducted and am responsible for this survey; that the survey shows all easements
made known to me by this owner, utility companies, or other parties expressing an interest; that the
survey complies with the minimum standards for surveying in the State of New Mexico, and is true and
correct to the best of my knowledge and belief.



Charles G. Colo, Jr., NMPS 11184

8-14-2000
Date

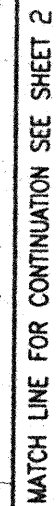
BOUNDARY AND TOPOGRAPHIC SURVEY
TRACT A, M.R.G.C.D. MAP No. 45

NO.	DATE	BY	REVISIONS	JOB NO.
1				2000.031.2
2				08-2000
3				2 12



NOTE: FOR LEGEND, BOUNDARY TABLE
AND KEYED NOTES SEE SHEET 1 OF 2

TRACT B
M.R.G.C.D. MAP No. 45
(FILED 11-03-1984, C25-119)



Imma

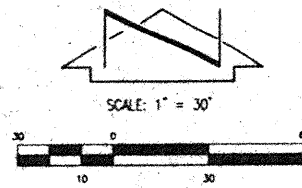
JEFF HERTENSEN & ASSOCIATES, INC.
☐ 6010-B MIDWAY PARK BLVD. N.E.
☐ ALBUQUERQUE ☐ NEW MEXICO 87109
☐ ENGINEERS ☐ SURVEYORS (NMS) 345-4255

BOUNDARY AND TOPOGRAPHIC SURVEY
TRACT A, M.R.G.C.D. MAP No. 45

SURVEYED BY RJE
DRAWN BY TNT
APPROVED BY CGC

NO.	DATE	BY	REVISIONS	JOB NO.
				2000.031.2
				DATE
				08-2000
				SHEET
				3 OF 12

C.O.A. PR/ NG 649931



BOUNDARY TABLES

LINE	DIRECTION	DISTANCE
L1	N 00°16'04" W	50.88'
L2	S 89°46'12" W	19.95'

CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA
C1	45.00'	68.03'	86°36'56"
C2	33.00'	49.89'	86°36'56"
C3	57.00'	86.17'	86°36'56"
C4	45.00'	69.34'	88°16'47"
C5	33.00'	50.85'	88°16'47"
C6	57.00'	87.82'	88°16'47"

LEGEND

BWF	BARBED WIRE FENCE
CLT	CHAIN LINK FENCE
CONC	CONCRETE
CW	CONCRETE WALL
EA	EDGE OF ASPHALT
ELEC	ELECTRIC
FG	FINISHED GRADE
GA	GUY ANCHOR
GM	GAS METER
WH	WATER
M.R.G.C.D.	MIDDLE RIO GRANDE CONSERVANCY DISTRICT
MW	MONITORING WELL
OHE(4)	OVERHEAD ELECTRIC (# OF LINES)
PF	PIPE FENCE
RCP	REINFORCED CONCRETE PIPE
R.O.W.	RIGHT-OF-WAY
SAS	SANITARY SEWER
SP	STEEL POLE
TA	TOP OF ASPHALT
TCO	TOP OF CONCRETE
TR	TELEPHONE RISER
TM	TOP OF MALL
W	WATER
WPP	WOOD POWER POLE
WWF	WOVEN WIRE FENCE
-32-	EXISTING CONTOUR
+32.3	EXISTING ELEVATION
32.75	PROPOSED ASPHALT PAVING
33	PROPOSED CONTOUR
32.75	PROPOSED SPOT ELEVATION

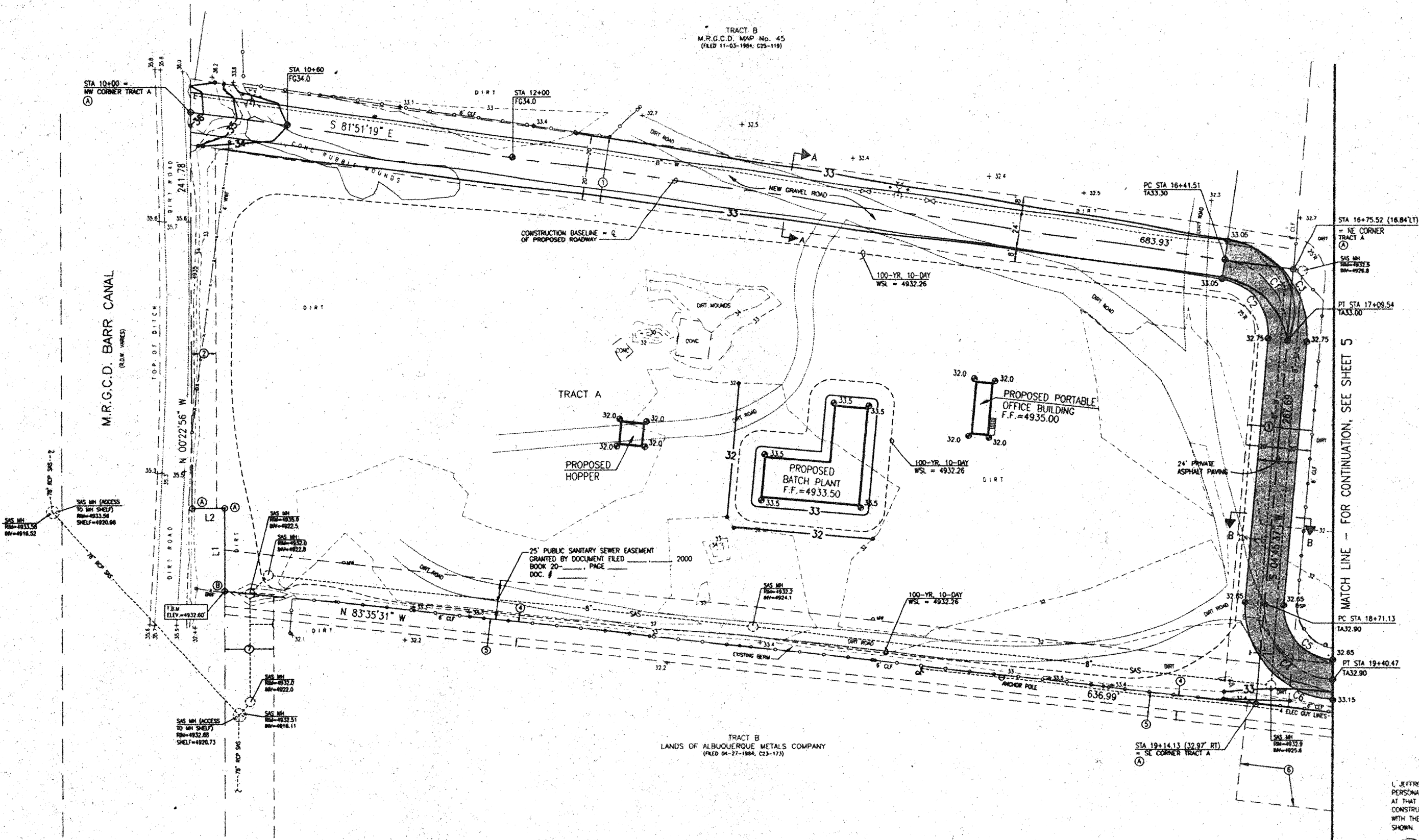
KEYED NOTES

- 40' PRIVATE ACCESS AND UTILITY EASEMENT GRANTED BY PLAT C25-119
- 15' UTILITY EASEMENT GRANTED BY C25-119
- 4' ADDITIONAL RIGHT-OF-WAY RESERVED BY PLATS C25-119 AND C73-173 (OFFSITE)
- 10' P.N.M. AND M.S.T.B.T. EASEMENT GRANTED BY DOCUMENT RECORDED IN BOOK MISC. 238, PAGE 996 (OFFSITE)
- 10' P.N.M. AND M.S.T.B.T. EASEMENT GRANTED BY DOCUMENT RECORDED IN BOOK MISC. 238, PAGE 996 (OFFSITE)
- 60'x60' P.N.M. SUBSTATION EASEMENT GRANTED BY DOCUMENT RECORDED IN BOOK MISC. 238, PAGE 996 APPROXIMATE LOCATION (OFFSITE)
- 30' CITY OF ALBUQUERQUE EASEMENT GRANTED BY DOCUMENT RECORDED IN BOOK DB05, PAGE 477 (OFFSITE)
- REBAR AND CAP STAMPED "MEDRANO PS 111993", W/WASHER STAMPED "NMP 11184"
- REBAR AND CAP STAMPED "S 4078", W/WASHER STAMPED "NMP 11184"
- #4 REBAR (NO I.D.), W/WASHER STAMPED "NMP 11184"

CERTIFICATION

I, JEFFREY G. MORTENSEN, N.M.P.E. 8547, DO HEREBY CERTIFY THAT I PERSONALLY VISITED THE SUBJECT PROJECT SITE ON AUGUST 25, 2000. AT THAT TIME, THERE WAS NO EVIDENCE OF RECENT SITE GRADING OR CONSTRUCTION ACTIVITY. THE CONTOUR OF THE LAND APPEARED CONSISTENT WITH THE OVERALL DRAINAGE PATTERN OF THE AREA AND THE TOPOGRAPHY AS SHOWN.

JEFFREY G. MORTENSEN, N.M.P.E. 8547
DATE 11-27-2000



SCANNED BY
PLANNING

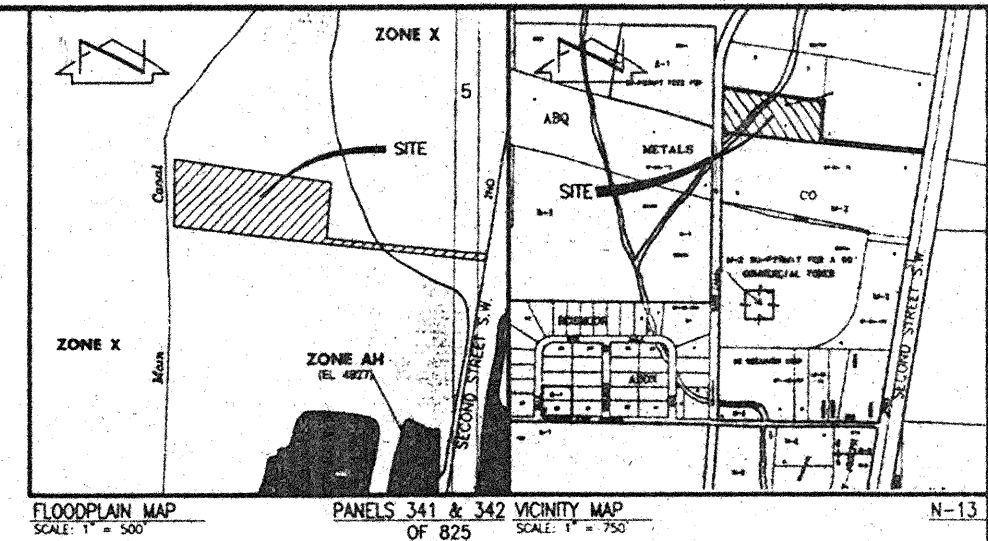
LINE	DIRECTION	DISTANCE
L1	N 00°16'04" W	50.88'
L2	S 89°46'12" W	19.95'

LEGEND

BWF
 CLF
 CONCO
 CW
 EA
 ELEC
 FG
 GA
 OM
 WH
 M.R.G.C.D
 MW
 ONE(4)
 PC
 PIP
 R.O.W.
 SAS
 SP
 TA
 TCO
 TR
 TW
 W
 WPF
 WWF
 -- 32 --
 + 32 S

CHAIN WIRE FENCE
 CHAIN LINK FENCE
 CONCRETE
 CONCRETE WALL
 EDGE OF ASPHALT
 ELECTRIC
 FINISHED GRADE
 GUY ANCHOR
 GAS METER
 MANHOLE
 MIDDLE PRO GRANDE CONSERVANCY DISTRICT
 MONITORING WELL
 OVERHEAD ELECTRIC (# OF LINES)
 PIPE
 REINFORCED CONCRETE PIPE
 RIGHT-OF-WAY
 SANITARY SEWER
 STEEL POLE
 TOP OF ASPHALT
 TOP OF CONCRETE
 TELEPHONE RISER
 TOP OF WALL
 WATER
 WOOD POWER POLE
 WOMEN WIRE FENCE
 EXISTING CONTOUR
 EXISTING ELEVATION

 PROPOSED ASPHALT PAVING
33 PROPOSED CONTOUR
 32.60 PROPOSED SPOT ELEVATION



LEGAL DESCRIPTION

TRACT A, M.R.G.C.D. MAP NO. 45, BERNALILLO COUNTY, NEW MEXICO AS THE SAME IS SHOWN AND DESIGNATED ON THE REPLAT OF TRACT 25-A-2, M.R.G.C.D. MAP NO. 45, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON NOVEMBER 13, 1984, BOOK C25, PAGE 119:

PROJECT BENCHMARK

ACS 3 1/4" ALUMINUM CAP STAMPED "1-N14, 1987", RIVETTED TO A PIPE LOCATED 53.4' EAST OF SECOND STREET S.W. NEAR THE FORK OF TWO RAILROAD TRACKS APPROXIMATELY 1/2 MILE NORTH OF RIO BRAVO BOULEVARD S.W. SEE THIS SHEET ELEVATION = 4931.78 FEET (M.S.L.)

T.B.M.

TOP OF REBAR AND CAP STAMPED "S 4078" AT THE SOUTHWEST CORNER OF TRACT A. SEE SHEET THREE
ELEVATION = 4932.60 FEET (M.S.L.D.)

KEYED NOTES

- ① 40' PRIVATE ACCESS AND UTILITY EASEMENT GRANTED BY PLAT C25-119
- ② 15' UTILITY EASEMENT GRANTED BY C25-119
- ③ 4' ADDITIONAL RIGHT-OF-WAY RESERVED BY PLATS C25-119 AND C23-173 (OFFSITE)
- ④ 10' P.N.W. AND W.S.T.&T. EASEMENT GRANTED BY DOCUMENT RECORDED IN BOOK MISC. 238, PAGE 995 (OFFSITE)
- ⑤ 10' P.N.W. AND W.S.T.&T. EASEMENT GRANTED BY DOCUMENT RECORDED IN BOOK MISC. 238, PAGE 995 (OFFSITE)
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- ⑧ REBAR AND CAP STAMPED "MEDRANO PS 11993", W/WASHER STAMPED "NMP5 11184"
- ⑨ REBAR AND CAP STAMPED "LS 4078", W/WASHER STAMPED "NMP5 11184"
- ⑩ #4 REBAR (NO I.D.), W/WASHER STAMPED "NMP5 11184"

CERTIFICATION

1. JEFFREY G. WORTENSEN, NMPE 8547, DO HEREBY CERTIFY THAT I PERSONALLY VISITED THE SUBJECT PROJECT SITE ON AUGUST 25, 2000. AT THAT TIME, THERE WAS NO EVIDENCE OF RECENT SITE GRADING OR CONSTRUCTION ACTIVITY. THE CONTOUR OF THE LAND APPEARED CONSISTENT WITH THE OVERALL DRAINAGE PATTERN OF THE AREA AND THE TOPOGRAPHY AS SHOWN.

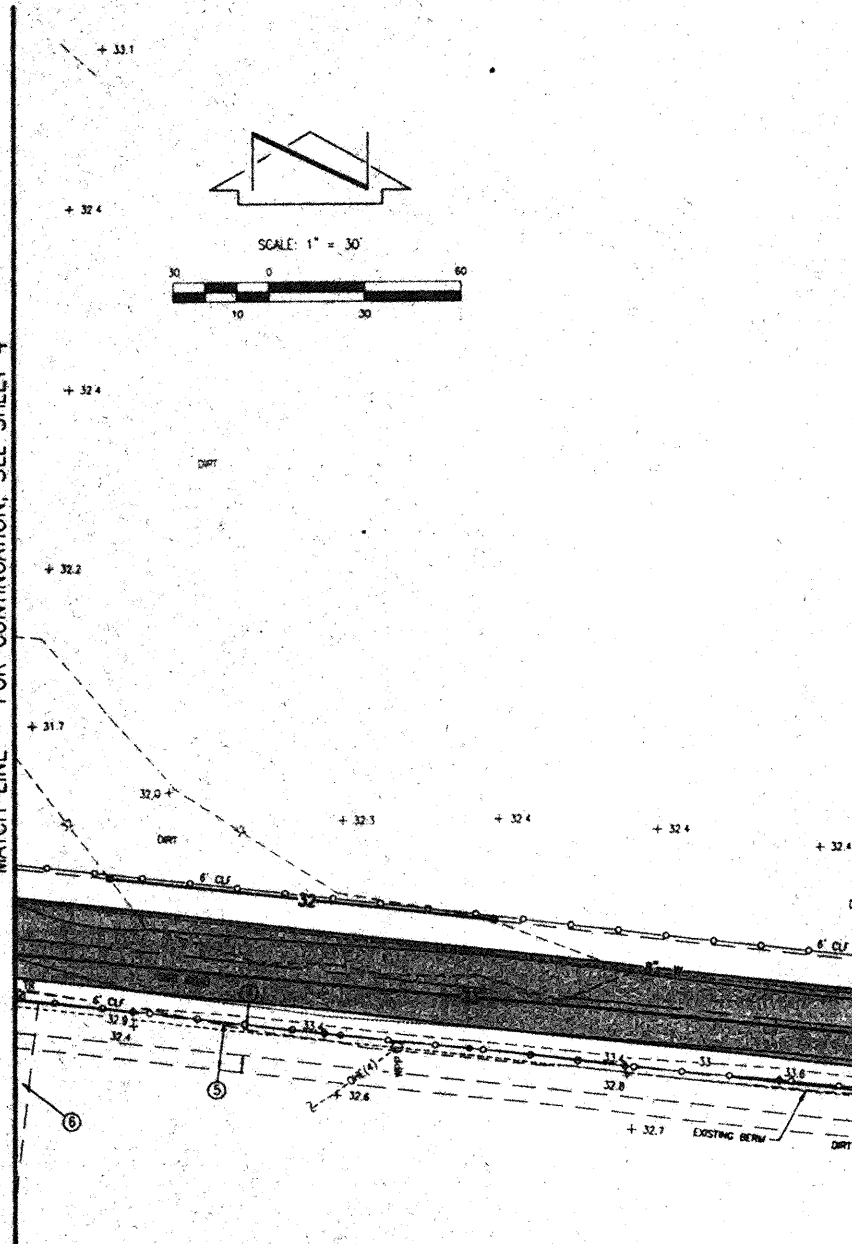
JEFFREY G. MORTENSEN, NUPE 8547

JEFFREY G. MORTENSEN
NEW MEXICO
8547
REGISTERED PROFESSIONAL

11-27-2000

DATE

MATCH LINE - FOR CONTINUATION, SEE SHEET 4



TRACT C
M.R.G.C.D. MAP No. 45
(FILED 11-03-1984, C25-119)

TRACT B
LANDS OF ALBUQUERQUE METALS COMPANY
(FILED 04-27-1984; C23-173)

PC STA 25+80.31 (12' LT)
TA 32.60
+ 32.6

TRANSITION FROM SUPER
ELEVATION TO NO CROWN

PC STA 25+77.11 (12' RT)
TA32.60

SECOND STREET S.W.

ATCH EXISTING
VEMENT, GRAD

2

11

10

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DRAYN

GRADING PLAN
LAFARGE SOUTH VALLEY SITE

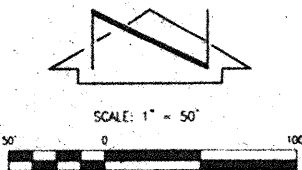
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APPROVED BY	JGM					SHEET	5 OF 12

COA DRI NO 640881

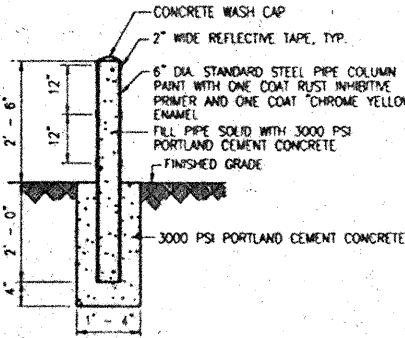
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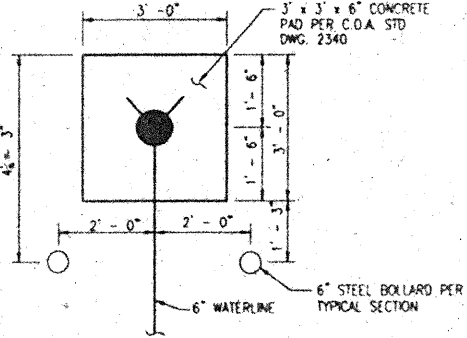
JEFF MORTENSEN & ASSOCIATES, INC.
☐ 6010-B MIDWAY PARK BLVD. NE
☐ ALBUQUERQUE ☐ NEW MEXICO 87109
☐ ENGINEERS ☐ SURVEYORS (505) 345-4250



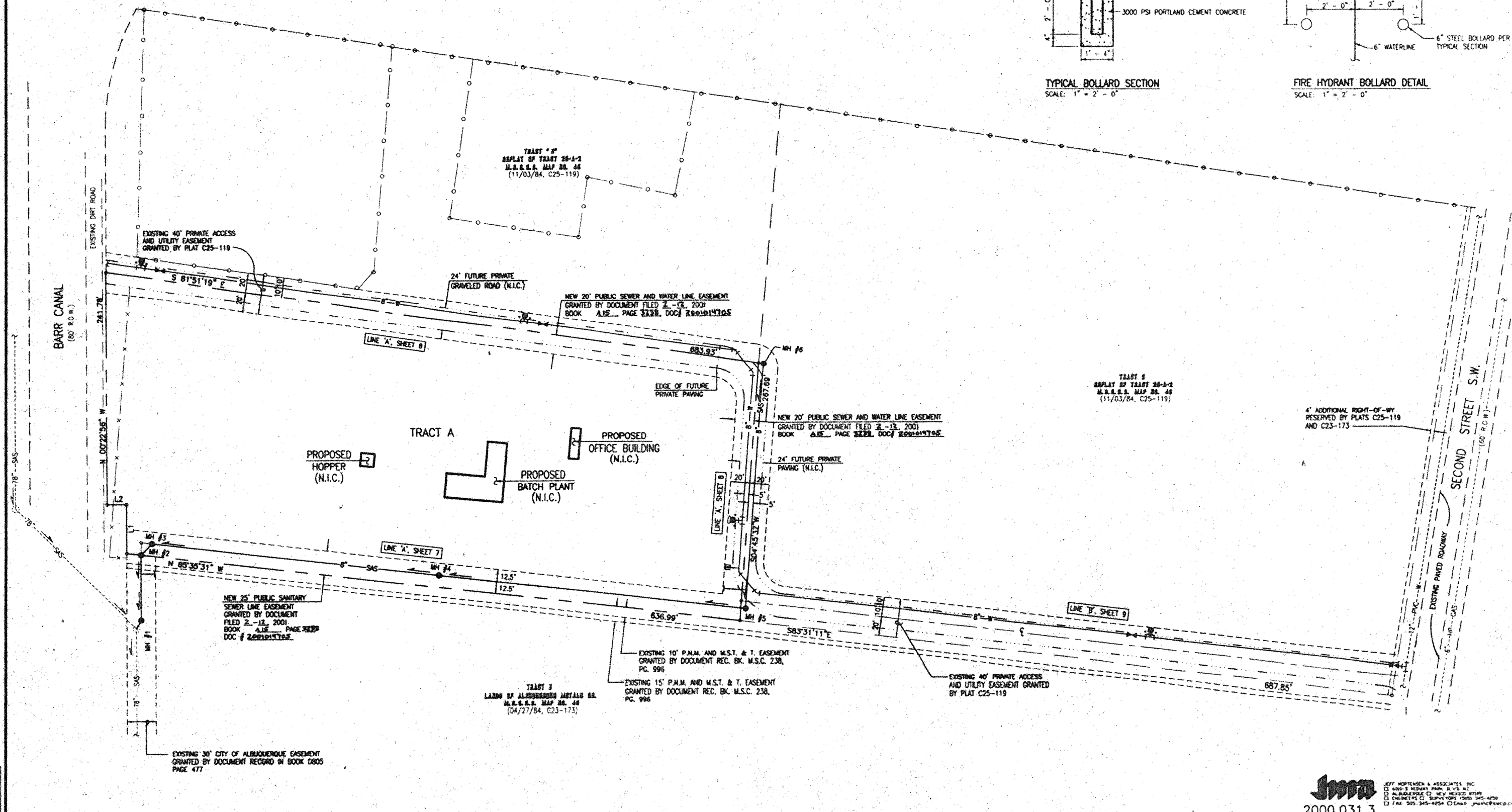
BOUNDARY TABLE		
LINE	DIRECTION	DISTANCE
L1	N00°16'04"W	50.88'
L2	S89°46'12"W	19.95'



TYPICAL BOLLARD SECTION
SCALE: 1" = 2' - 0"



FIRE HYDRANT BOLLARD DETAIL
SCALE: 1" = 2' - 0"



TRACT 1
REPLAT OF TRACT 28-1-2
M.S.S.S. MAP NO. 48
(11/03/84, C25-119)

TRACT 3
LANDS OF ALBUQUERQUE METALS CO.
M.S.S.S. MAP NO. 48
(04/27/84, C25-173)

NOTE:
THIS IS NOT A BOUNDARY SURVEY. BOUNDARY DATA
WAS TAKEN FROM A SURVEY PREPARED BY JMA, INC.,
DATED AUGUST 2000 AND IS SHOWN FOR ORIENTATION
ONLY.

Jma
2000.031.3
JEFF MORTENSEN & ASSOCIATES, INC.
4400-3 HENRY PARK, S.W. N.E.
ALBUQUERQUE, N.M. 87105
ENGINEERS & ARCHITECTS
TEL: 505.345-4254 FAX: 505.345-4255

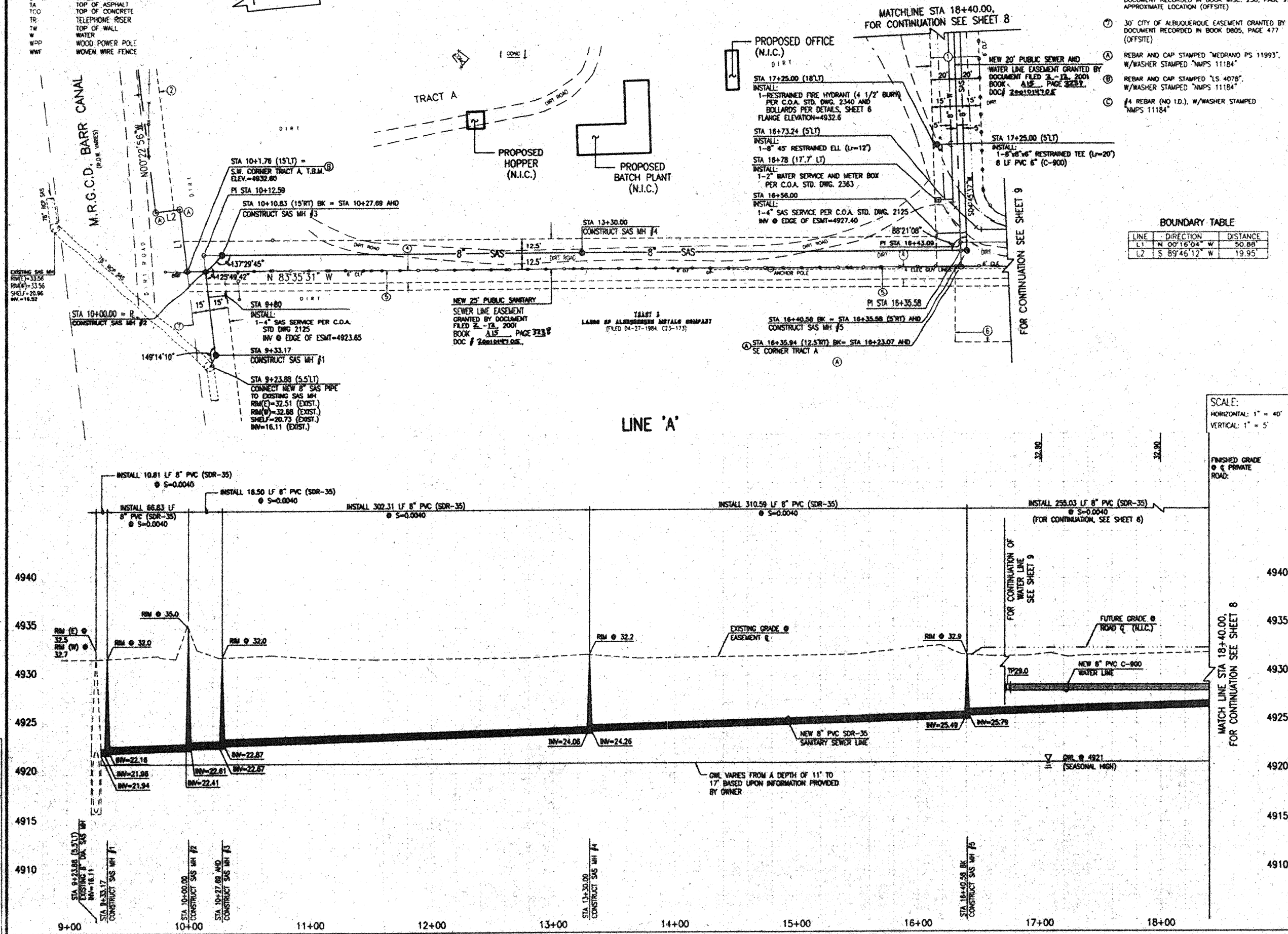
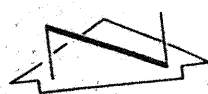
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: LAFARGE SOUTH VALLEY SITE PUBLIC WATER AND SANITARY SEWER LINE EXTENSIONS SITE PLAN	
Design-Review Committee	City Engineer Approval
City Project No. 649881	Zone Map No. N-13
Sheet 6	Of 12

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS	
CONTRACTOR	DATE	AS BUILT TO	DATE	NO.	BY	NO.	BY	NO.	DATE
		ACS 3 1/4" ALUMINUM CAP STAMPED "1-N14 1987" BENT TO	08/00	2000.012	JMA				
		A PIPE LOCATED 53.4' EAST OF SECOND STREET S.W. NEAR THE							
		FORM OF TWO RAILROAD TRACKS APPROXIMATELY 1/2 MILE NORTH							
		OF RIO GRANDE BOULEVARD S.W. SEE THIS SHEET							
		ELEVATION = 4931.78 FEET (M.S.L.D.)							
MICRO-FILM INFORMATION		REVISIONS		DESIGN		DATE		BY	
RECORDED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE

LEGEND

BWF	BARBED WIRE FENCE
CLF	CHAIN LINK FENCE
CONC	CONCRETE
CW	CONCRETE WALL
EA	EDGE OF ASPHALT
ELEC	ELECTRIC
GA	GUY ANCHOR
GM	GAS METER
GWL	GROUND WATER LEVEL
WH	WATER
M.R.G.C.D.	MIDDLE RIO GRANDE CONSERVANCY DISTRICT
MW	MONITORING WELL
ONE(4)	OVERHEAD ELECTRIC (4 OF LINES)
PF	PIPE FENCE
RCP	REINFORCED CONCRETE PIPE
R.O.W.	RIGHT-OF-WAY
SAS	SANITARY SEWER
SP	STEEL POLE
TA	TOP OF ASPHALT
TCO	TOP OF CONCRETE
TR	TELEPHONE ROSE
TW	TOP OF WALL
WDP	WOOD POWER POLE
WWT	WOVEN WIRE FENCE

SCANNED BY
PLANNING



KEYED NOTES

- 40' PRIVATE ACCESS AND UTILITY EASEMENT GRANTED BY PLAT C25-119
- 15' UTILITY EASEMENT GRANTED BY C25-119
- 4' ADDITIONAL RIGHT-OF-WAY RESERVED BY PLATS C25-119 AND C23-173 (OFFSITE)
- 10' P.N.M. AND M.S.T.&T. EASEMENT GRANTED BY DOCUMENT RECORDED IN BOOK MISC. 238, PAGE 996 (OFFSITE)
- 15' P.N.M. AND M.S.T.&T. EASEMENT GRANTED BY DOCUMENT RECORDED IN BOOK MISC. 238, PAGE 996 (OFFSITE)
- 60'x60' P.N.M. SUBSTATION EASEMENT GRANTED BY DOCUMENT RECORDED IN BOOK MISC. 238, PAGE 996 APPROXIMATE LOCATION (OFFSITE)
- 30' CITY OF ALBUQUERQUE EASEMENT GRANTED BY DOCUMENT RECORDED IN BOOK DBOS, PAGE 477 (OFFSITE)
- REBAR AND CAP STAMPED "MEDANO PS 11993", W/WASHER STAMPED "NAPS 11184"
- REBAR AND CAP STAMPED "LS 4078", W/WASHER STAMPED "NAPS 11184"
- #4 REBAR (NO I.D.), W/WASHER STAMPED "NAPS 11184"

BOUNDARY TABLE

LINE	DIRECTION	DISTANCE
L1	N 00°16'04" W	50.88
L2	S 89°46'12" W	19.95

WATER LINE CONSTRUCTION NOTES:

- ALL STATIONING IS BASED ON EASEMENT CENTERLINE UNLESS INDICATED OTHERWISE
- FOR ALL LINES 12" AND SMALLER, WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.
- FOR ALL LINES 14" AND LARGER, WATER MAIN SHALL BE DUCTILE IRON OR PVC C905 OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. CONCRETE CULVERT IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF DUCTILE IRON.
- WATERLINE SHALL HAVE A MINIMUM COVER OF 4'0" (FINISHED GRADE TO TOP OF PIPE). EXTRA DEPTH TRENCHING, IF REQUIRED BY THESE PLANS, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION; THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
- IN ACCORDANCE WITH SECTION 801 OF THE "STANDARD SPECIFICATIONS", METALLIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
- VALVE STEM AND FIRE HYDRANT EXTENSIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COST OF EACH EXTENSION SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION; THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- JOINT RESTRAINT SHALL BE CONSIDERED INCIDENTAL TO WATERLINE CONSTRUCTION; THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE HYDRANT LEGS FROM TEE TO FIRE HYDRANT INCLUDING THE TEE AND FIRE HYDRANT.
- FOR THE PURPOSES OF THIS PROJECT, ALL RESTRAINED JOINTS AND JOINT RESTRAINT SHALL BE MECHANICALLY RESTRAINED. JOINT RESTRAINT LENGTHS SPECIFIED HEREON ARE THE LENGTHS TO BE RESTRAINED EACH SIDE OF THE FITTING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING; THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING; THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE INSTALLED AS PRESSURE PIPE BETWEEN MANHOLES IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.
- ALL FIRE HYDRANTS SHALL BE SECURELY WRAPPED IN BLACK PLASTIC UNTIL SUCH TIME AS THE NEW WATERLINE IS PUT INTO SERVICE BY WATER SYSTEM DIVISION PERSONNEL.

SANITARY SEWER CONSTRUCTION NOTES:

- ALL STATIONING IS BASED ON EASEMENT CENTERLINE UNLESS INDICATED OTHERWISE
- ALL SEWER PIPE SHALL BE PVC (SDR-35), UNLESS OTHERWISE NOTED.
- SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
- ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE 'E' AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 OTHERWISE NOTED. MANHOLE STEPS SHALL BE DELETED FROM THIS CONTRACT.
- SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS (EMD) AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. EMD SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING; THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
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T.B.M.

TOP OF REBAR AND CAP STAMPED "LS 4078" AT THE SOUTHWEST CORNER OF TRACT A, STA 10+17.76 (15' LT) ELEVATION = 4932.60 FEET (M.S.L.D.)

2000.031.3

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: LAFARGE SOUTH VALLEY SITE
PUBLIC WATER AND SANITARY SEWER LINE EXTENSIONS
LINE 'A' STA 9+23.88 TO STA 18+40.00 PLAN AND PROFILE

Design Review Committee	City Engineer Approval
APPROVED	APPROVED
DATE: MAY 7 2001	DATE: MAY 7 2001

City Project No. 649881 Zone Map No. N-13 Sheet 7 of 12

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REMARKS	
CONTRACTOR	DATE	CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE
ALC'S 3/4" ALUMINUM CAP STAMPED "N-114, 1987"	DATE	ALC'S 3/4" ALUMINUM CAP STAMPED "N-114, 1987"	DATE	2000.0182	DATE	2000.0182	DATE	2000.0182	DATE
A PIPE LOCATED 53.4' EAST OF SECOND STREET S.W. NEAR THE FORK OF TWO RAILROAD TRACKS APPROXIMATELY 1/2 MILE NORTH OF RIO BRANCO BOULEVARD S.W. SEE THIS SHEET	DATE	A PIPE LOCATED 53.4' EAST OF SECOND STREET S.W. NEAR THE FORK OF TWO RAILROAD TRACKS APPROXIMATELY 1/2 MILE NORTH OF RIO BRANCO BOULEVARD S.W. SEE THIS SHEET	DATE		DATE		DATE		DATE
ELEVATION = 4931.78 FEET (M.S.L.D.)	DATE	ELEVATION = 4931.78 FEET (M.S.L.D.)	DATE		DATE		DATE		DATE

LEGEND

BWF	BARBED WIRE FENCE
CLF	CHAIN LINK FENCE
CONC	CONCRETE
CW	CONCRETE WALL
EA	EDGE OF ASPHALT
ELEC	ELECTRIC
GA	GUY ANCHOR
GM	GAS METER
MH	MANHOLE
M.R.G.C.D.	MIDDLE RIO GRANDE CONSERVANCY DISTRICT
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T.B.M.

TOP OF REBAR AND CAP STAMPED "LS 4078" AT THE SOUTHWEST CORNER OF TRACT A, STA 10+176 (15'11") ELEVATION = 4932.60 FEET (M.S.L.D.)

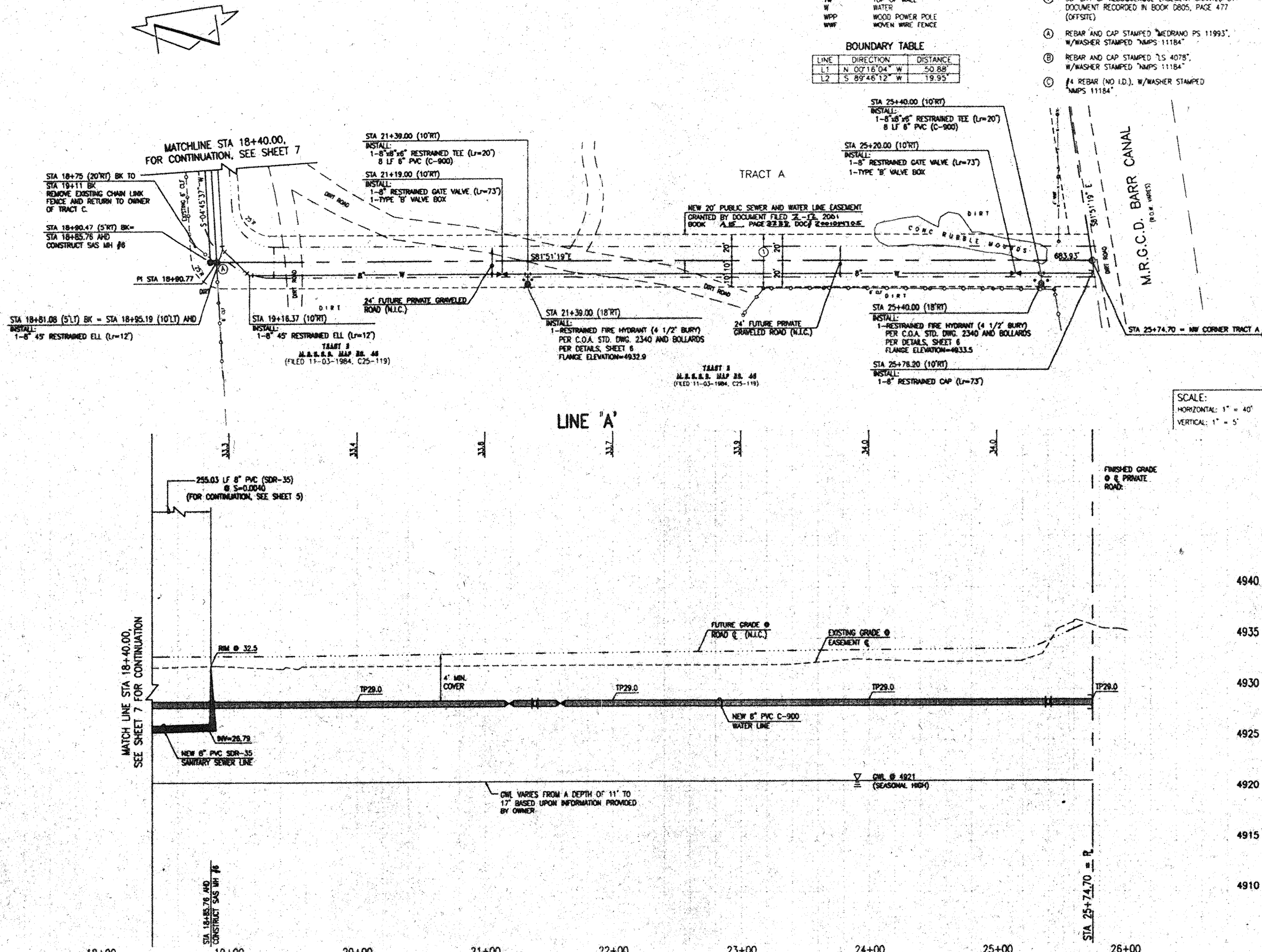
Jeff Mortensen & Associates, Inc.
2000.031.3
11-27-2000

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

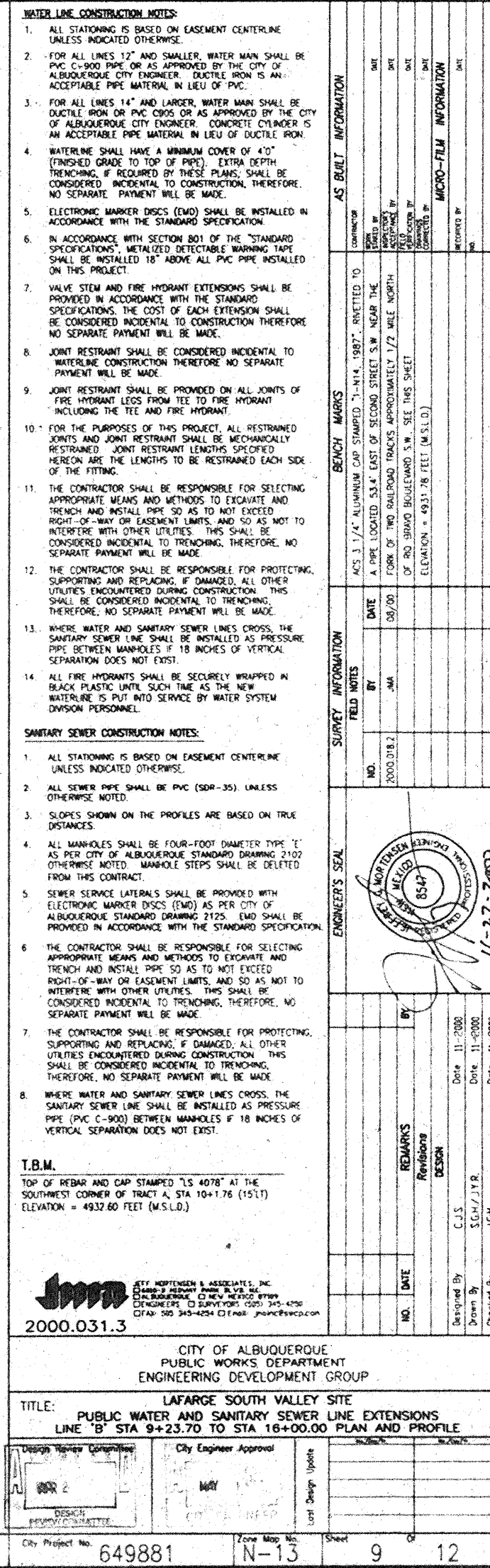
TITLE: LAFARGE SOUTH VALLEY SITE
PUBLIC WATER AND SANITARY SEWER LINE EXTENSIONS
LINE 'A' STA 18+40.00 TO STA 25+76.20 PLAN AND PROFILE

DESIGN	REVIEW	APPROVE
DATE	DATE	DATE
BY	BY	BY

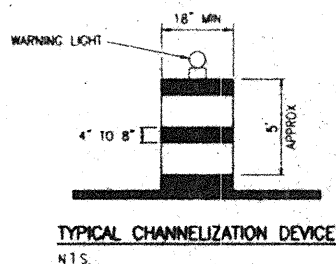
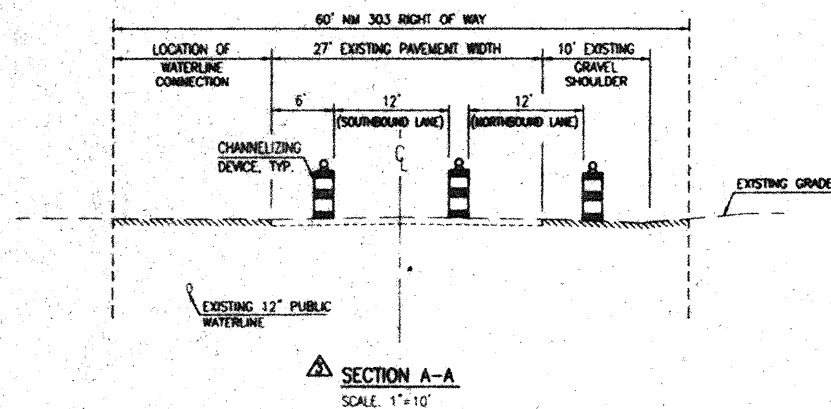
City Project No. 649881 Zone Map No. N-13 Sheet 8 of 12



Plot Date:	11-27-2000
Plot Time:	08:47 am



WATER LINE CONSTRUCTION NOTES:		AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REMARKS	
		CONTRACTOR	DATE			NO.	DATE	BY		NO.	DATE
1. ALL STATIONING IS BASED ON EASEMENT CENTERLINE UNLESS INDICATED OTHERWISE.						2000.018.2	09/00				
2. FOR ALL LINES 12" AND SMALLER, WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.				A PIPE LOCATED 53.4' EAST OF SECOND STREET S.W. NEAR THE FORK OF RIO RAILROAD TRACKS APPROXIMATELY 1/2 MILE NORTH OF RIO GRAND BOULEVARD S.W. SEE THIS SHEET ELEVATION = 4935.78 FEET (M.S.L.D.)							
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T.B.M.											
TOP OF REBAR AND CAP STAMPED "S 4078" AT THE SOUTHWEST CORNER OF TRACT A, STA 10+1.76 (1511) ELEVATION = 4932.60 FEET (M.S.L.D.)											
 2000.031.3		JEFF HORTENBERG & ASSOCIATES, INC. 6500 S. 10TH AVENUE, SUITE 100 ALBUQUERQUE, NM 87105 (505) 243-4254 FAX (505) 243-4255 WWW.JHMA.COM		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP		TITLE: LAFARGE SOUTH VALLEY SITE PUBLIC WATER AND SANITARY SEWER LINE EXTENSIONS LINE "B" STA 9+23.70 TO STA 16+00.00 PLAN AND PROFILE		City Engineer Approval:  City Engineer: 		Design:  DESIGNED: 	
City Project No. 649881		Zone Map No. N-13		Sheet 9		12					



TAPER LENGTH COMPUTATION

45 MPH OR GREATER Δ $L = \frac{1}{2} W \times S$

WHERE:

Δ $W = 5'$

$S = 45$ MPH (POSTED SPEED)

THEN:

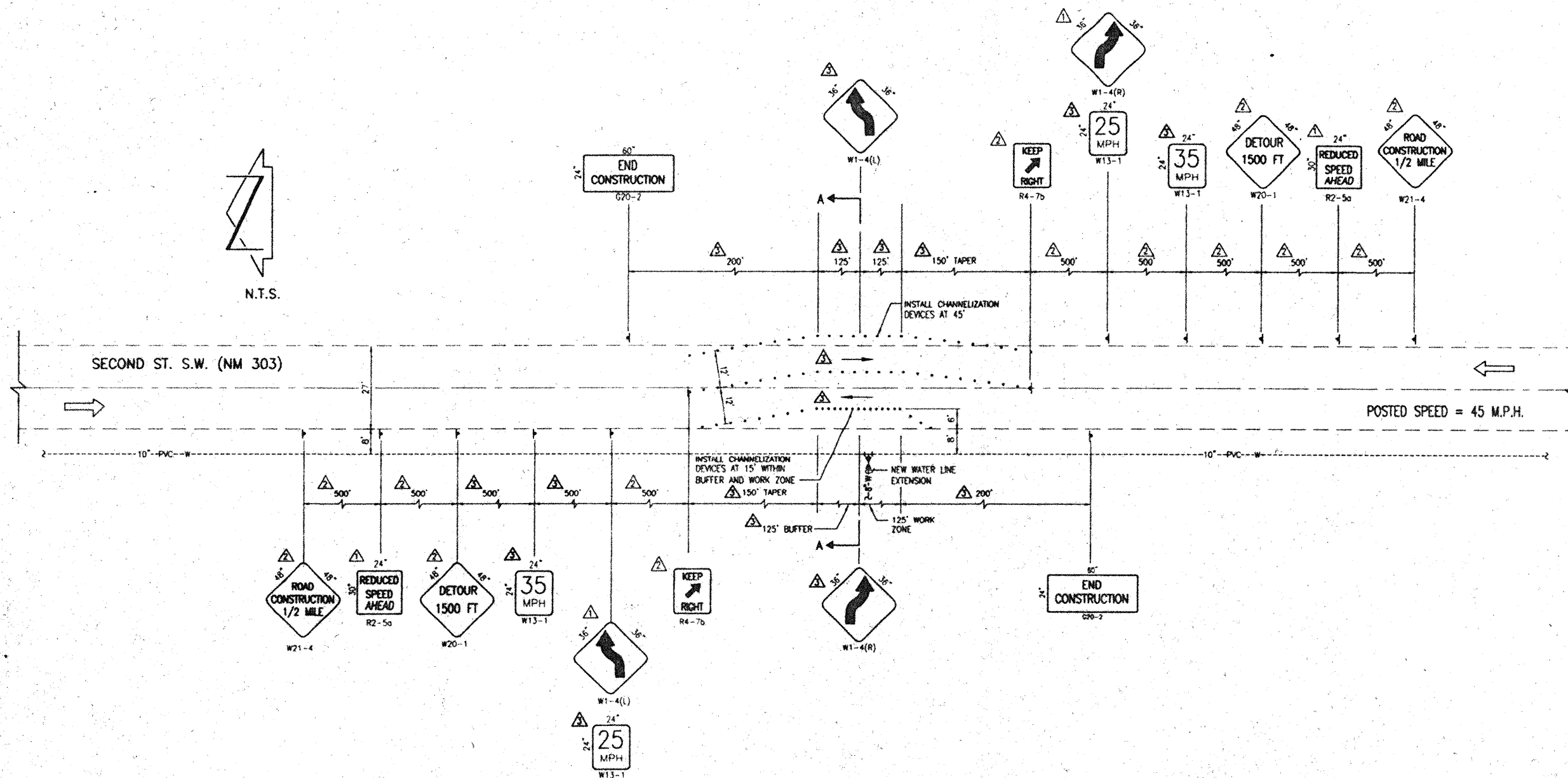
Δ $L = 135'$, USE 150'

LEGEND

	EXISTING TRAFFIC DIRECTION
	TYPICAL CHANNELIZATION DEVICE PER TYPICAL DETAIL THIS SHEET
	TRAFFIC CONTROL SIGN (AS LABELED)

TRAFFIC CONTROL NOTES

1. SIGNAGE, CHANNELIZING DEVICES AND TRAFFIC CONTROL IMPLEMENTATION SHALL COMPLY WITH PART VI OF THE M.U.T.C.D., LATEST EDITION.
2. CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
3. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE STANDARDS AND REQUIREMENTS SET FORTH IN THE M.U.T.C.D. PART VI.
4. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
5. ALL SIGNS AND BARRICADES SHALL BE REMOVED DURING NON-WORKING HOURS.



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CITY OF ALBUQUERQUE PARKS AND GENERAL SERVICES DESIGN & DEVELOPMENT DIVISION				
TITLE: LAFARGE SOUTH VALLEY SITE PUBLIC WATER AND SANITARY SEWER LINE EXTENSIONS TRAFFIC CONTROL PLAN				
Design Review Committee	City Engineer Approval	Last Design Update	Revised	Revised
N/A	County			
City Project No.	Zone Map No.	Sheet	Of	
649881	N-13	10	10	

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADE 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 (M.U.T.C.D.) LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 5A.4 OF THE MUTCD, LATEST EDITION.

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

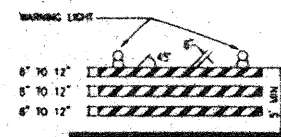
22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC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

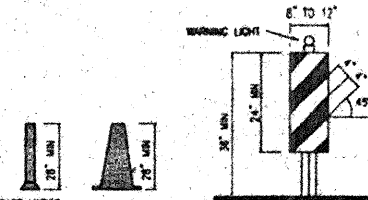
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.

25. 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.



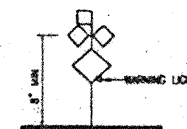
TYPE III BARRICADE



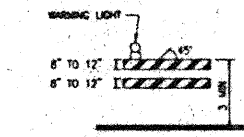
VERTICAL PANEL



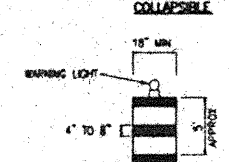
CONES



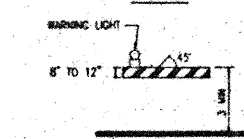
HIGH LEVEL WARNING DEVICE



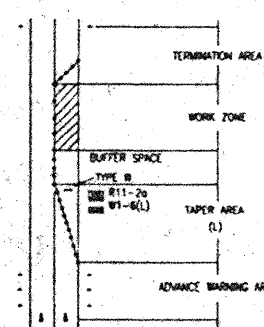
TYPE III BARRICADE COLLAPSIBLE



BARREL



TYPE I BARRICADE COLLAPSIBLE



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

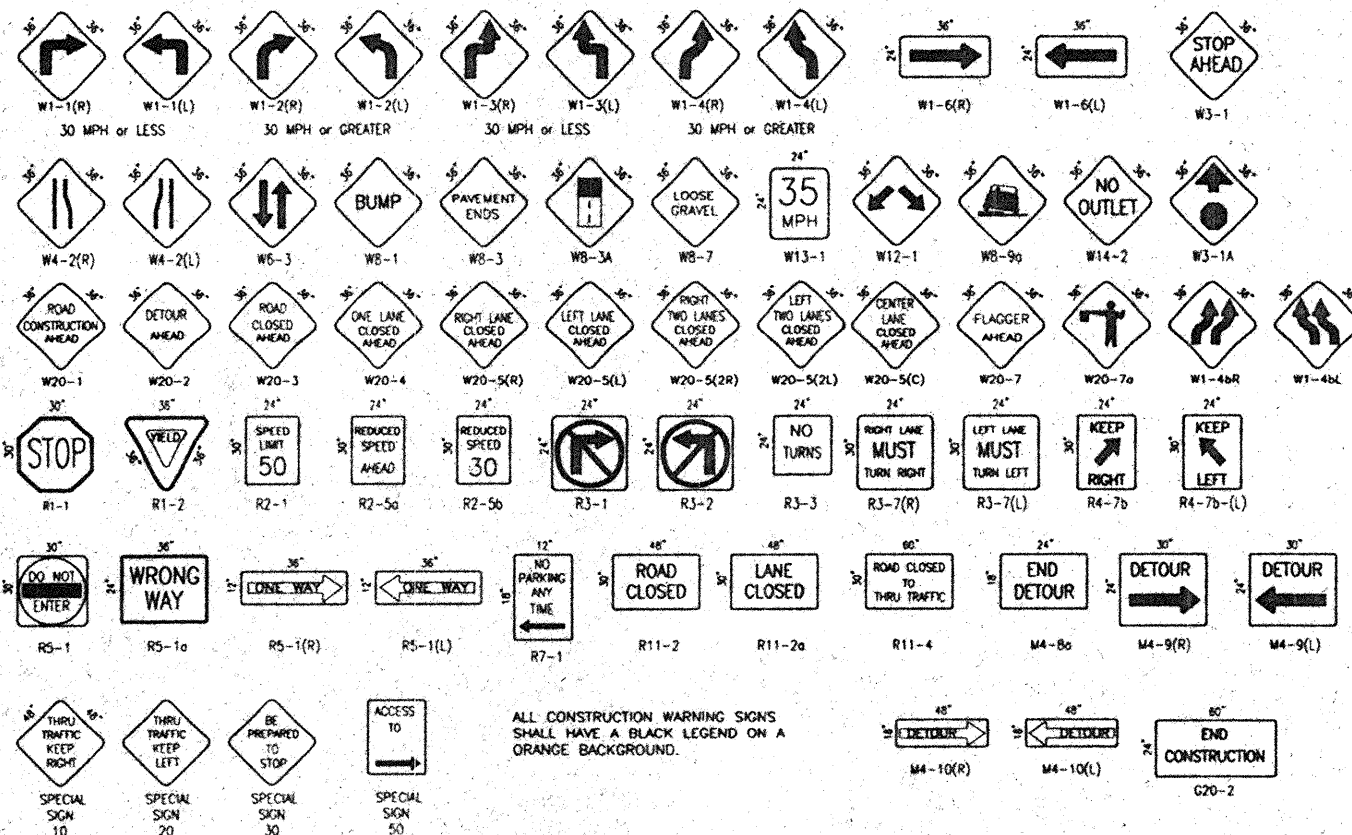
TAPER CRITERIA

TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER	L MINIMUM
MERGING 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
45 MPH OR GREATER
 $L = W \times S$
L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85 PERCENTILE SPEED IN MPH

SIGN FACE DETAILS



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

2000.031.3

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
LAFARGE SOUTH VALLEY SITE	
TITLE: PUBLIC WATER AND SANITARY SEWER LINE EXTENSIONS SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS	
Design Review Committee	City Engineer Approval
C.O.A. STD.	C.O.A. STD.
649881	N-13
11	12

Plot Date:	06-02-2000
Plot Time:	12:58 pm

