

• L E G E N D •

MATERIALS

CONCRETE

RIP-RAP

LINES

SUBDIVISION BOUNDARY

PROPERTY LINE (PLAN)

PROPERTY LINE (SECTION)

CENTERLINE

EASEMENT LINE

MATCH LINE

SECTION CUT LINE

EARTHWORK

EXISTING

NEW

CONTOUR LINE

SPOT ELEVATION

PROJECT / PHASE BOUNDARY

SVALE

DIRECTION OF FLOW

MISCELLANEOUS UTILITIES

GAS LINE

UNDERGROUND TELEPHONE

UNDERGROUND ELECTRICAL

STORM DRAIN

STORM DRAIN MANHOLE

STORM DRAIN INLET

SANITARY SEWER

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

CONSTRUCTION PLANS

FOR

ALAMEDA DEL NORTE

BERNALILLO COUNTY, NEW MEXICO

JANUARY, 1993

RECORD DRAWING

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

JEFFREY G. MORTENSEN

REGISTERED PROFESSIONAL ENGINEER

NEW MEXICO

8547

11-11-94

SHEET	DESCRIPTION
1.	COVER SHEET, VICINITY MAP, GENERAL NOTES, LEGEND AND INDEX OF DRAWINGS
2.	SUBDIVISION PLAT
3.	TERRAIN MANAGEMENT / GRADING AND DRAINAGE PLAN
4.	GRADING NOTES, SECTIONS AND DETAILS
5.	PAVING IMPROVEMENTS PLAN AND PROFILE
6.	WATER AND SANITARY SEWER EXTENSIONS PLAN AND PROFILE
7A	SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS
7B	TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES
6A	LIFT STATION DIMENSIONS, SPECIFICATIONS AND CALCULATIONS
6B	LIFT STATION PUMP CONTROL DIAGRAM
6C	LIFT STATION ELECTRICAL CABINETS WIRING DIAGRAMS

APPROVAL OF AS-BUILT DRAWINGS

CHIEF CONSTRUCTION ENGINEER

12-16-94

I, Jeffrey G. Mortensen, a registered Professional Engineer licensed under the Laws of the State of New Mexico do hereby certify that these plans comply with all applicable laws, ordinances and regulations to the best of my knowledge and belief.

JEFFREY G. MORTENSEN

REGISTERED PROFESSIONAL ENGINEER

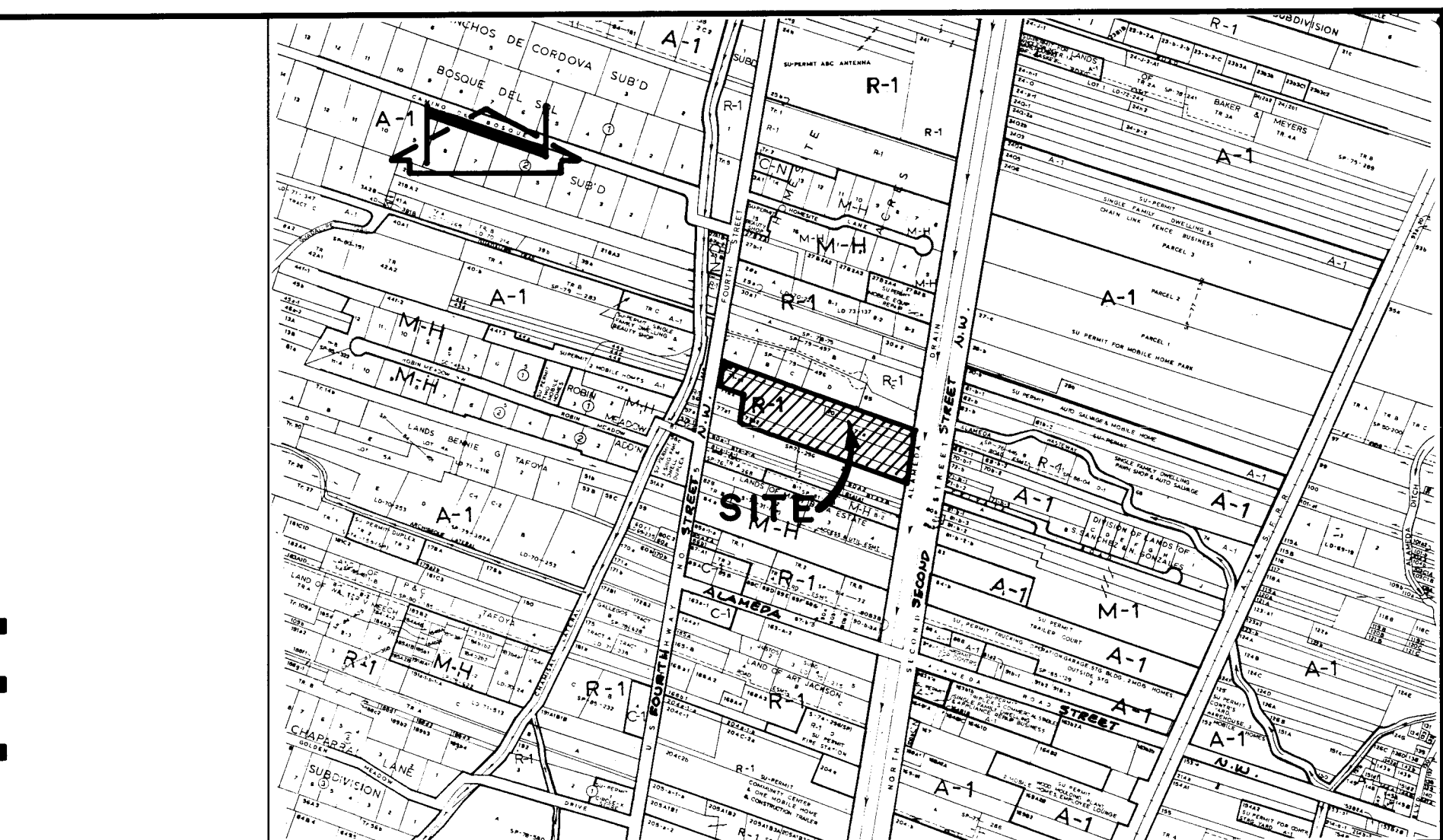
NEW MEXICO

8547

08-20-93

Date

24 4590.90 01 1994



VICINITY MAP

SCALE: 1" = 800' (APPROX.)

B - 16

- 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 - 1986 - UPDATE 4, 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. 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 AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, 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 COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE. (REFER TO NOTE 18).
 - 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 DEPRESSED 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 THREE (3) 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.
 - 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 ENGINEER. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION 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 SPECIFICATIONS.
 - CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES AND SCHEDULES WITH THE NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPT. (NMSHTD) AND THE BERNALILLO COUNTY PUBLIC WORKS DEPT. (BCPWD).
 - ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED IN KIND BY CONTRACTOR TO LOCATION AND IN KIND AS EXISTING OR AS INDICATED BY THIS PLAN SET.
 - CONTRACTOR SHALL SECURE AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
 - ALL 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.
 - 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.

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

APPROVED FOR CONSTRUCTION

C.E.

PROJECT NO.

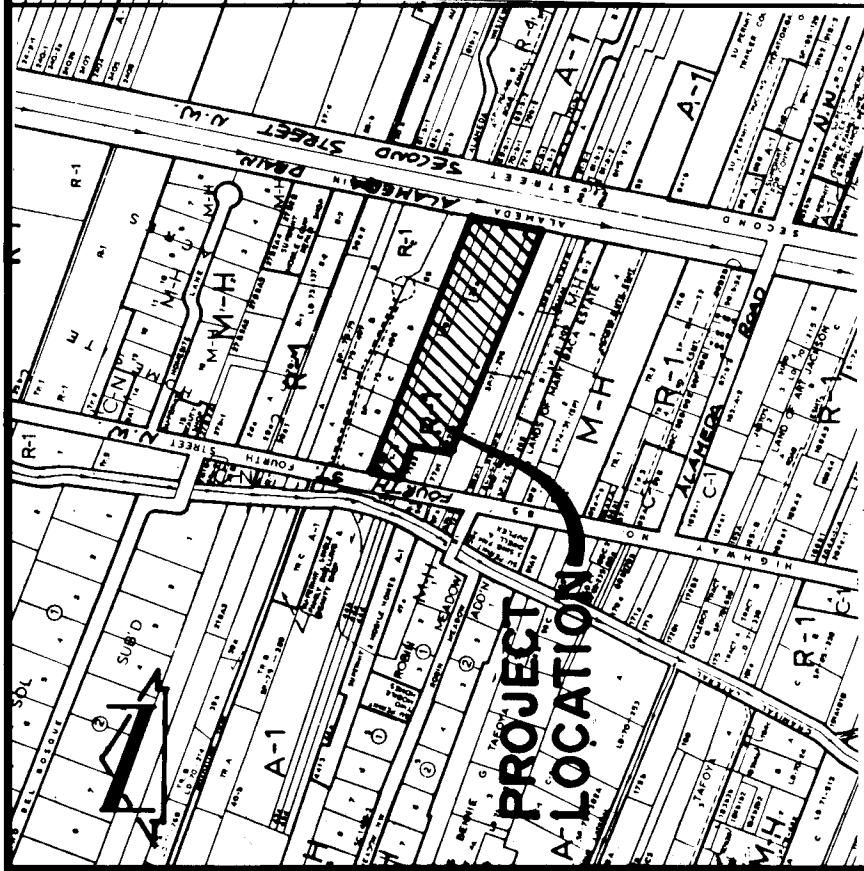
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SHEET 1 OF 7

CAUTION:

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

920302



VICINITY MAP
NO SCALE

B-16

NOTES:

1. A boundary survey was performed on October 29 and October 30, 1992. Property corners were found or set as indicated.
2. 0.16 miles full-width street mileage is being created by this plat.
3. All distances are ground distances.
4. Site located within Section 10, Township 11 North, Range 3 East, N.M.P.M. (as projected).
5. Bearings shown hereon are New Mexico State Plane Grid Bearings. Central Zone NAD-1983.
6. The purpose of this plat is to:
 - a. Subdivide the 5 NMGCD tracts of land into 14 residential lots.
 - b. Dedicate public street right-of-way to the County of Bernalillo.
 - c. Grant the various easements as shown.
7. Record bearings and distances shown in parentheses are based upon the survey prepared by C. H. Cole, NM Registered Professional Engineer and Land Surveyor No. 601 dated August 29, 1998.
8. Public street rights-of-way are dedicated to the County of Bernalillo, New Mexico, which will accept responsibility for maintenance upon completion and inspection.



JEFF MORTENSEN & ASSOCIATES, INC.
600-B MIDWAY PARK BLVD., NE.
ALBUQUERQUE, NM 87109
ENGINEERS & SURVEYORS (605) 345-4250

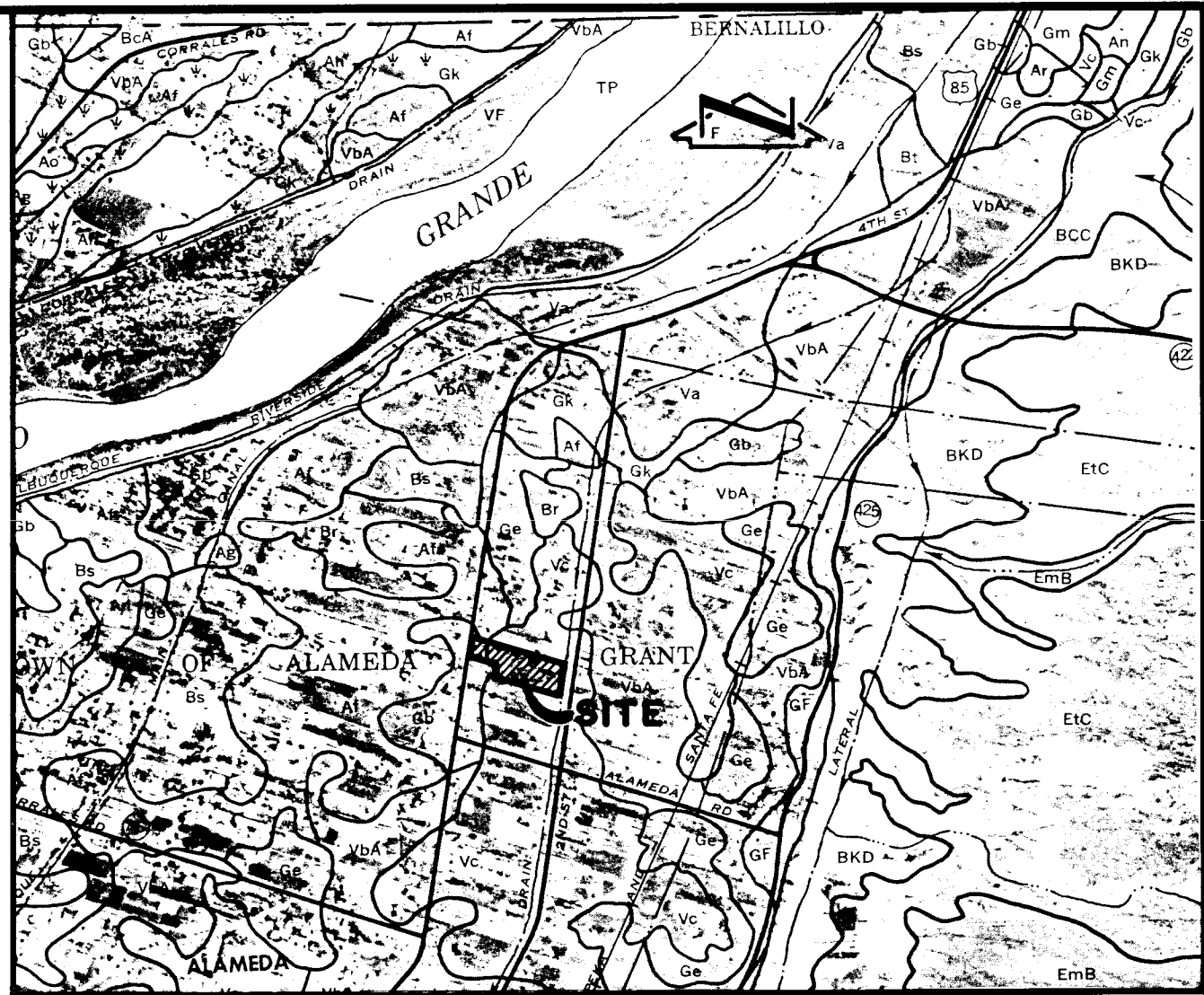
JOB #920302A

DESCRIPTION

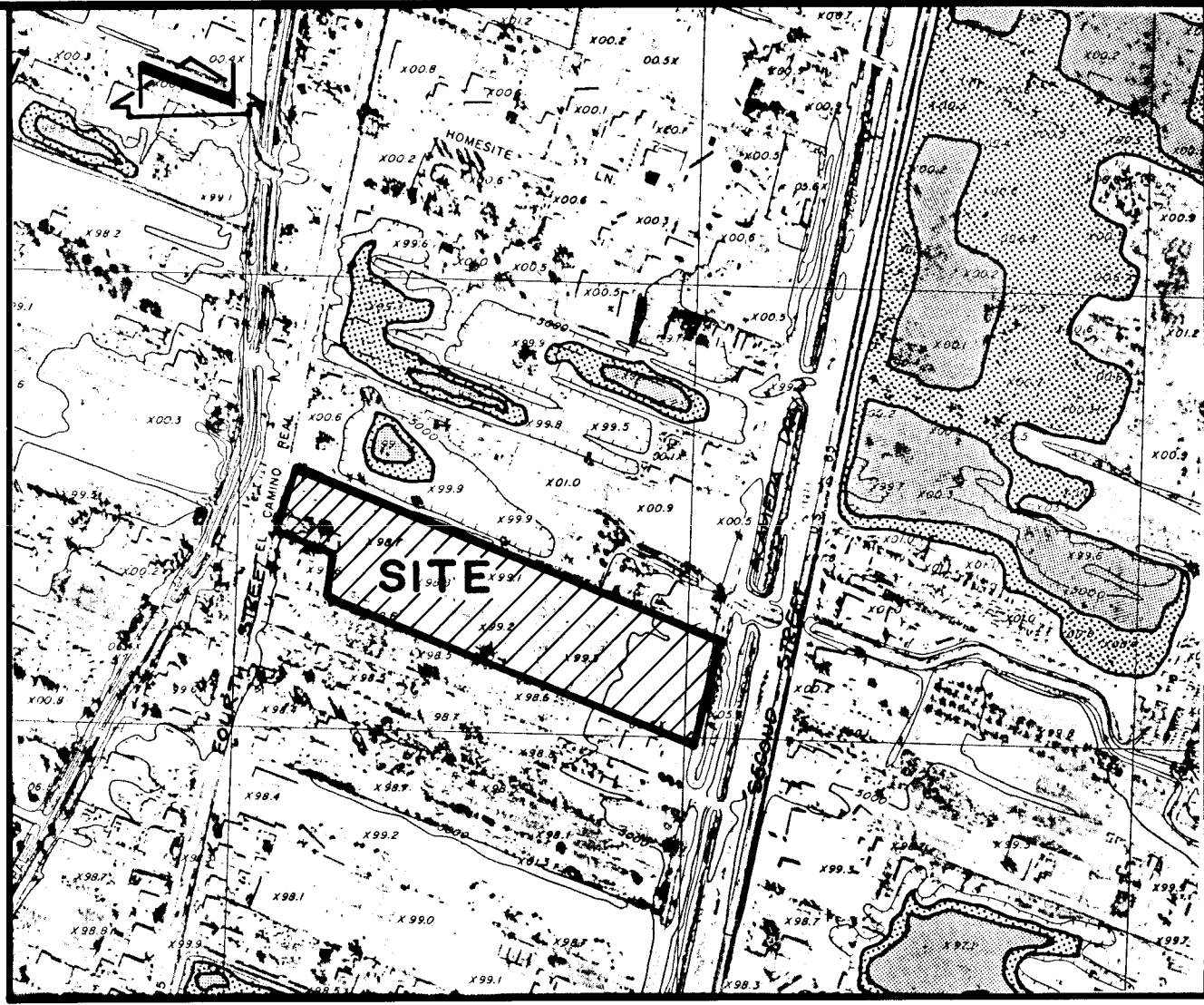
A certain tract of land located within Bernalillo County, New Mexico, comprising Tract 69a, 78a, 71a, 72a, 73a, 74a, 75a, 76a, 77a, 78a, 79a, 80a, 81a, 82a, 83a, 84a, 85a, 86a, 87a, 88a, 89a, 90a, 91a, 92a, 93a, 94a, 95a, 96a, 97a, 98a, 99a, 100a, 101a, 102a, 103a, 104a, 105a, 106a, 107a, 108a, 109a, 110a, 111a, 112a, 113a, 114a, 115a, 116a, 117a, 118a, 119a, 120a, 121a, 122a, 123a, 124a, 125a, 126a, 127a, 128a, 129a, 130a, 131a, 132a, 133a, 134a, 135a, 136a, 137a, 138a, 139a, 140a, 141a, 142a, 143a, 144a, 145a, 146a, 147a, 148a, 149a, 150a, 151a, 152a, 153a, 154a, 155a, 156a, 157a, 158a, 159a, 160a, 161a, 162a, 163a, 164a, 165a, 166a, 167a, 168a, 169a, 170a, 171a, 172a, 173a, 174a, 175a, 176a, 177a, 178a, 179a, 180a, 181a, 182a, 183a, 184a, 185a, 186a, 187a, 188a, 189a, 190a, 191a, 192a, 193a, 194a, 195a, 196a, 197a, 198a, 199a, 200a, 201a, 202a, 203a, 204a, 205a, 206a, 207a, 208a, 209a, 210a, 211a, 212a, 213a, 214a, 215a, 216a, 217a, 218a, 219a, 220a, 221a, 222a, 223a, 224a, 225a, 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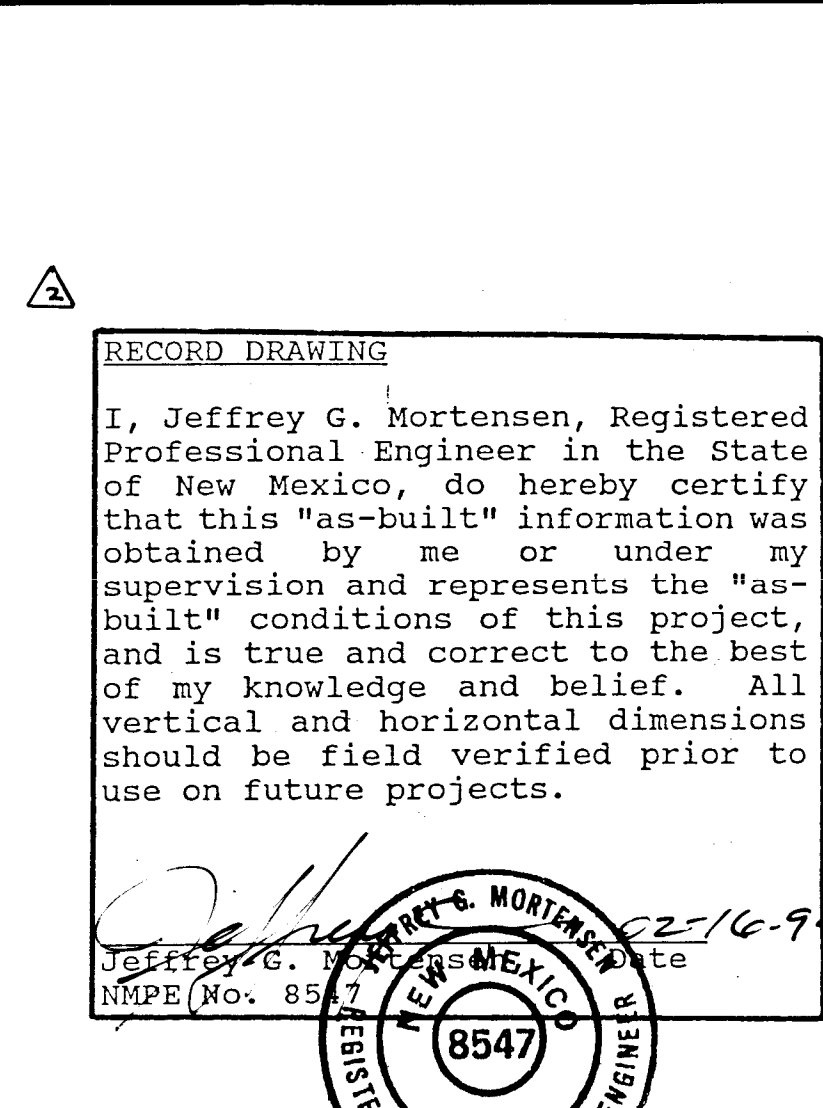
VICINITY MAP
SCALE: 1" = 800' ±



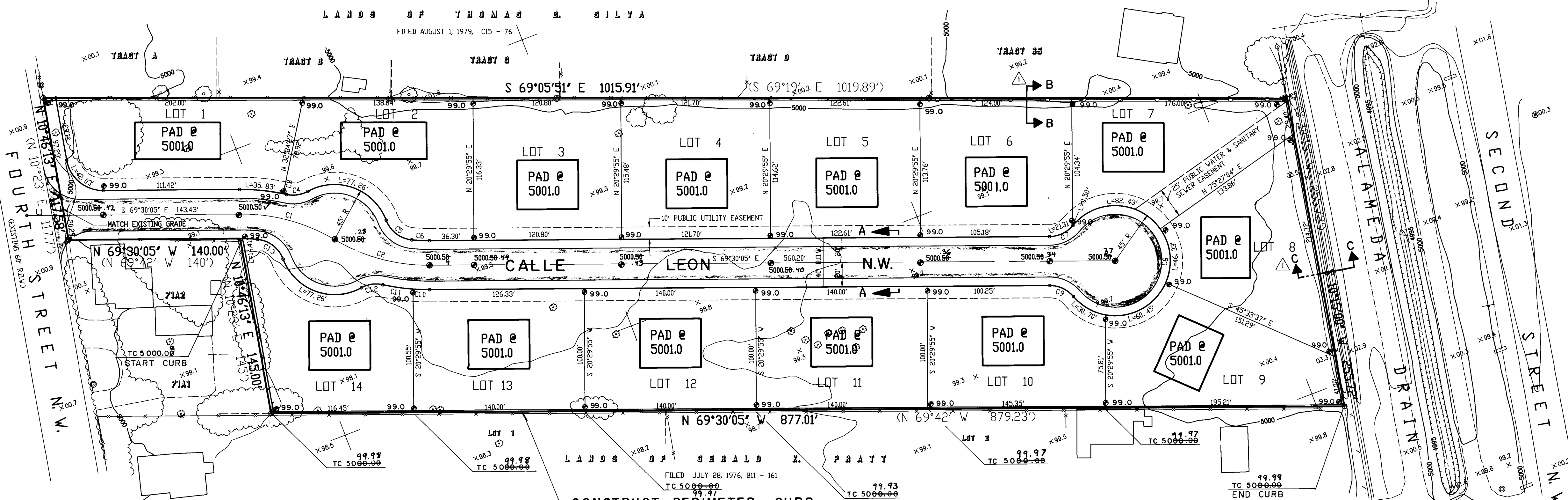
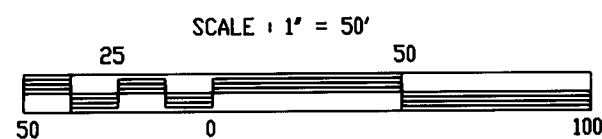
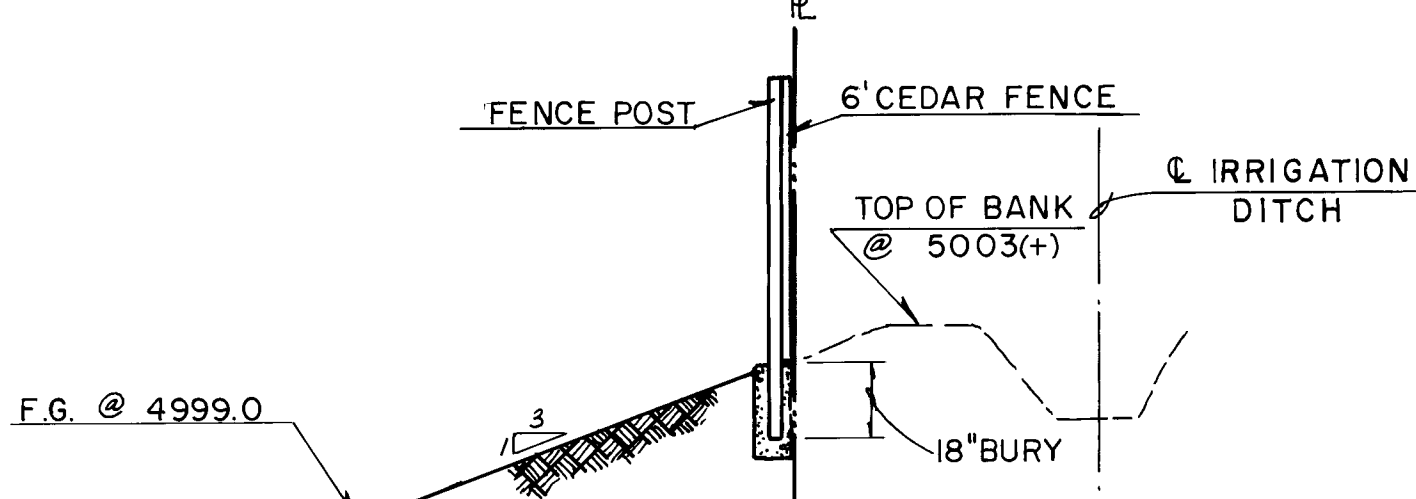
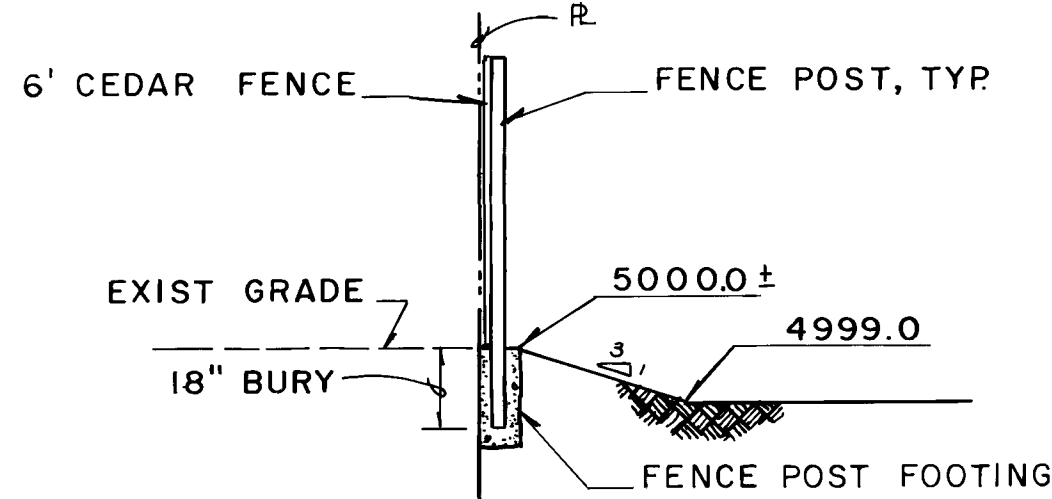
SOILS MAP
SCALE: 1" = 2000'



WATERSHED / FLOODPLAIN MAP
SCALE: 1" = 400'



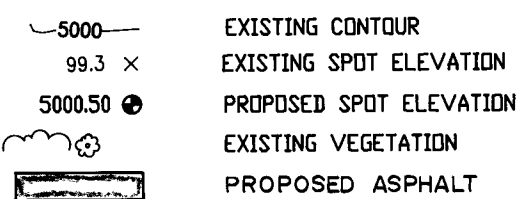
RECORD DRAWING



LINE	BEARING	DISTANCE
L1	S 69°30'05" E	30.44
L2	S 69°05'51" E	10.16

CURVE	ARC	DELTA	RADIUS	CHORD LENGTH	CHORD BEARING	TAN LENGTH
C1	81.22	31°01'27"	150.00	80.23	S 53°59'22" E	41.63
C2	81.22	31°01'27"	150.00	80.23	S 53°59'22" E	41.63
C3	2.70	0°54'40"	170.00	2.70	S 56°58'13" E	1.35
C4	18.14	41°34'05"	25.00	17.74	S 77°17'55" E	9.49
C5	27.68	63°25'51"	25.00	26.29	S 31°25'53" E	15.45
C6	14.42	6°21'17"	130.00	14.41	S 66°19'27" E	7.22
C7	21.81	49°59'41"	25.00	21.13	N 85°30'04" E	11.66
C8	219.90	279°59'23"	45.00	57.86	S 20°29'55" W	6.85
C9	21.81	49°59'41"	25.00	21.13	N 44°30'14" W	11.66
C10	13.68	4°36'42"	170.00	13.68	N 67°11'44" W	6.85
C11	24.85	8°22'31"	170.00	24.83	N 60°42'08" W	12.45
C12	18.14	41°34'05"	25.00	17.74	N 77°17'55" W	9.49
C13	27.68	63°25'51"	25.00	26.29	N 31°25'53" W	15.45

LEGEND



NOTE
ALL LOTS SHALL BE GRADED FLAT AT A CONSTANT ELEVATION OF 4999.0 WITH THE EXCEPTION OF THE BUILDING PADS AND "CALLE LEON"

- VICINITY MAP
A Vicinity Map at an approximate scale of 1" = 800' is provided hereon.
- SUBDIVISION MAP
The boundaries of the proposed subdivision have been superimposed with the topography. The topography is expressed by contours at one foot contours. No grades exceed 8%. The plan also shows proposed, lots, roads, utility easements, approximate house pad locations and elevations. Areas outside the roadway and house pads will not be disturbed.
- SOIL SURVEY
The soils present on site, per Sheet 11 of the "Soil Survey of Bernalillo County and Parts of Sandoval and Valencia Counties, New Mexico", prepared by the Soil Conservation Service, 1977, indicates the presence of two soil types. Of the two types present, the Vc (Vinton clay loam) unit is more prevalent. The Gb (Gila loam) unit is less prevalent and is found only on the westerly portion of the site.
Based upon the review of the "Soil Survey" and the predominance of residential development surrounding the site, the site soils are suitable for residential use without seasonal restriction.
- GRADING AND DRAINAGE PLAN
As shown by Panel 3 of 50 of the National Flood Insurance Program Flood Insurance Rate Maps (FIRM) for the City of Albuquerque, Bernalillo County, New Mexico, October 14, 1983, this site does not lie within a designated Flood Hazard Zone. None of the subdivision lots lie within designated floodways, flood fringes or floodplains.
The topography of the site is flat with very little relief. No lots have slopes in excess of 8%.
As shown by the grading plan hereon, the site will require minimal grading to construct the new road and to build house pads. Otherwise, existing grades will not be significantly altered. Offsite flows from the north will be accepted and will not be blocked by walls or curbs. Instead, a wood fence will be constructed at existing grade. Post construction grading at the property line will undermine the fence thereby preventing careless alteration to this plan. An existing irrigation ditch and associated berm lie along the east property line. Similarly, a wood fence is proposed at this boundary. Runoff from the site will not discharge from the property to the south. A concrete curb is proposed at the south property line to contain runoff on the site. A typical section of the curb is shown on the following page. Structural improvements such as this are not required on the other sides of the site due to the elevation of the existing terrain and the grade control provided by the wood fence construction. The roadway will be elevated and drained into the lots.
No storm drainage systems are required.
- SUBSURFACE DRAINAGE
The seasonal high water table lies between 4 and 12 feet below the ground surface for the entire site. The Alameda Drain lies to the east of the site at an average 8 feet below the ground surface of the site. No subsurface drainage structures are proposed.
- ROADS
Roadway locations are shown on the Grading Plan. Section A-A illustrates more detailed construction detail. The road will be complete prior to the sale of the first lot.
- LEGAL DESCRIPTION
A certain tract of land located within Bernalillo County, New Mexico, comprising Tract 69a, 70a, 71a, 72a, 77a, of the Middle Rio Grande Conservancy District Map No. 23, as conveyed by Warranty Deed filed 6-10-1970 in Book D-877, Page 769, Doc. # 79764, and being more particularly described as follows:
Beginning at the northwest corner of the parcel herein described, being the northwest corner of said Tract 69a, and also being a point on the east right-of-way of Fourth Street N.W.; thence S 69°05'51" E a distance of 1015.91 feet to the northeast corner of the parcel herein described, being the northeast corner of said Tract 69a, and also being a point on the west right-of-way line of the Alameda Drain; thence S 10°15'00" W a distance of 255.72 feet along said right-of-way line to the southeast corner of the parcel herein described, being the southeast corner of said Tract 77a2; thence N 69°30'05" W a distance of 877.01 feet to the southwest corner of said Tract 77a2; thence N 10°46'13" E a distance of 145.00 feet; thence N 69°30'05" W a distance of 140.00 feet to a point on the east right-of-way line of Fourth Street N.W.; thence N 10°46'13" E a distance of 117.58 feet along said right-of-way line to the point of beginning and containing 5.4925 acres more or less.

8. SUBDIVISION DATA
a. Number of Lots = 14
b. Smallest Parcel = 0.3214 Acre

9. DRAINAGE CALCULATIONS
The calculations which appear hereon analyze both the existing and developed conditions for the 100-year, 6-hour rainfall event. These calculations have been performed in accordance with the Interim Drainage Design Criteria for Bernalillo County dated April 1990 and more specifically outlined in the "Procedure for 10-acre Basins". As shown by these calculations, minor increases in runoff from this site are anticipated due to development.

CALCULATIONS

Site Characteristics

1. Precipitation Zone	2
2. $P_{100} = P_{160} =$	2.35
3. Total Area (A_T)	5.49 Ac
4. Existing Land Treatment	

Treatment	Area (sf/aci)	%
A	239,200/5.49	100%

5. Developed Land Treatment

Treatment	Area (sf/aci)	%
B	167,200/3.84	70%
(Based upon fully landscaped yards)		
D	72,000/1.65	30%
(Based upon 2000 sf per house, 1000 sf driveway and patio per lot and 30,000 sf of street paving)		

Existing Condition

1. Volume
 $V_{100} = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$
 $E_A = 0.4$
 $E_B = 0.5$
 $E_C = 0.6$
 $E_D = 0.7$
 $V_{100} = 0.24$ Ac. Ft.

2. Peak Discharge
 $Q_p = Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D$
 $Q_{pA} = 1.88(5.49) = 10.3$ cfs

Developed Condition

1. Volume
 $V_{100} = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$
 $E_A = 0.4$
 $E_B = 0.5$
 $E_C = 0.6$
 $E_D = 0.7$
 $V_{100} = 1.09$ ac. ft. (0.08 ac. ft./lot)

2. Peak Discharge
 $Q_p = Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D$
 $Q_{pA} = 1.88(5.49) = 10.3$ cfs
 $Q_{pB} = 9.8 + 8.5 = 18.3$ cfs

Comparison

1. $\Delta V_{100} = 1.09 - 0.24 = 0.85$ ac. ft. (increase)
 $\Delta V_{100}/lot = 0.85/14 = 0.06$ ac. ft./lot

2. $\Delta Q_{100} = 18.3 - 10.3 = 8.0$ cfs (increase)
 $\Delta Q_{100}/lot = 8.0/14 = 0.6$ cfs/lot

10 DAY WSL = 4999.0 + 0.4 = 4999.4
BOTTOM OF SG = 5000.50 - 0.02(13) - 0.5 = 4999.7
BOTTOM OF SB ABOVE 10 DAY WSL

CERTIFICATION

I, Jeffrey G. Mortensen, NMPE No. 8547, do hereby certify that I personally visited the subject project site and that the information contained herein is true and correct to the best of my knowledge and belief. The contour of the land appeared consistent with the overall drainage pattern and the area, as well as the topography illustrated hereon.

Jeffrey G. Mortensen, NMPE No. 8547

NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
8547

04-28-93
#4590.90



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

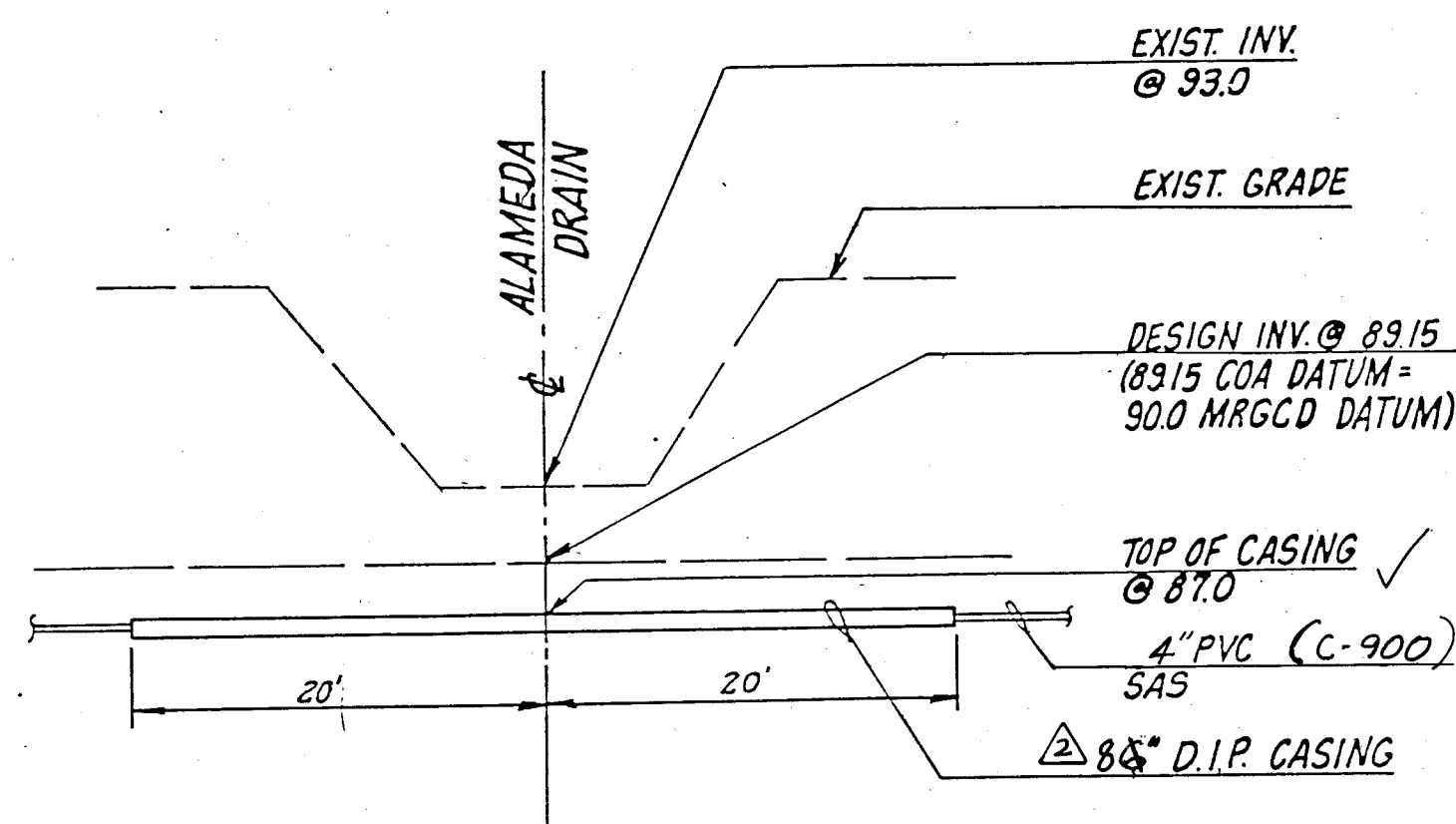
TERRAIN MANAGEMENT / GRADING PLAN
ALAMEDA DEL NORTE

TM - 1

		NO.	DATE	BY	REVISIONS	JOB NO.
DESIGNED BY	J. G. M.	△	01/93	JGM	ADD PERIMETER CURB & VIO - DAY, GRADE LOTS FLAT	920302
DRAWN BY	S. G. H.	△		GM	AS-BUILT & CERTIFY	DATE 12 / 92
APPROVED BY	J. G. M.					SHEET 3 OF 7

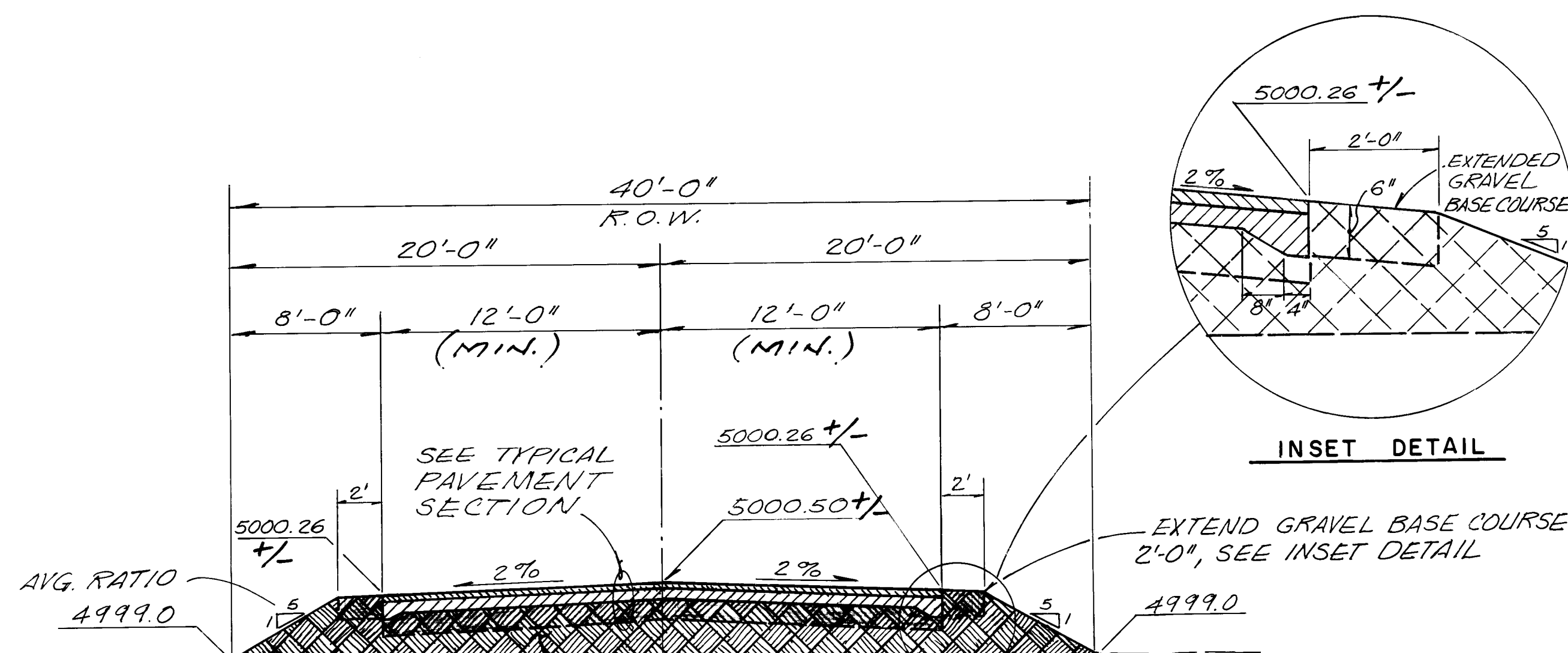
-
- 2" CLR
6"
TC @ 5000.0 (MIN.)
3000 P.S.I. CONC.
F.G. @ 4999.0
EXIST. GRADE 4998.0

△ TYPICAL PERIMETER CURB SECTION
NTS



DRAIN CROSSING SECTION

SCALE: 1" = 10' - 0"



SECTION A - A

NTS

EXISTING GRADE:
CLEAR, GRUB, SCARIFY &
COMPACT @ 90%, ASTM D-1557

- CLEAN FILL, COMPACTED @ $\checkmark$
95% ASTM, D-1557

1" ASPHALTIC CONCRETE SURFACE ✓
COURSE, 1800# STABILITY

EMULSIFIED ASPHALT TACK COAT ✓

2" ASPHALTIC CONCRETE BASE
COURSE, 1800# STABILITY

6" GRAVEL BASE COURSE
COMPACTED @ 95% ASTM - D-1557

CLEAN FILL (SUBGRADE) COMPACTED
@ 95% ASTM ~ D 1557 ✓

TYPICAL PAVEMENT SECTION

NTS

RECORD DRAWING

RECORD DRAWING

I, Jeffrey C. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

JEFFREY G. MORTENSEN
NEW MEXICO
JEFFREY G. MORTENSEN
WMPE No. 48547
02-16-94
STATE

TM-2

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE	ALAMEDA DEL NORTE
GRADING NOTES, SECTIONS & DETAILS	

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>M. G.</i>	9-24-93	WATER	N/A RWK	8-18-93
TRANSPORTATION	<i>N/A H. B.</i>	8-26-93	WASTE WATER	N/A RWK	8-18-93
HYDROLOGY	N/A PM	5/11/93	BCPWD	<i>CR Bowman</i>	9/6/93

PROJECT NO.	4590 90	MAP NO.	B-16	SHEET	4	OF	7
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920302

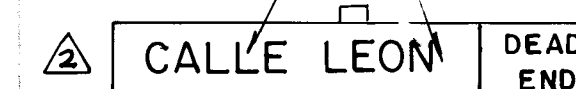
LINE	BEARING	DISTANCE
L1	S 69°30'05" E	30.44
L2	S 69°05'51" E	10.16



1. ALL SLOPES AS SHOWN ON PROFILES ARE
BASED ON STREET CENTERLINE
STATIONING EXCEPT CUL-DE-SACS WHERE
STATIONING IS ALONG FACE OF CURB.
2. WHERE REMOVAL OF EXISTING CURB AND
GUTTER, SIDEWALK OR PAVEMENT IS
REQUIRED, THE CONTRACTOR SHALL
SAWCUT AND/OR REMOVE TO THE NEAREST
JOINT. CURB AND GUTTER SHOWN AS
EXISTING AND NOT TO BE REMOVED UNDER
THIS CONTRACT WHICH IS DAMAGED OR
DISPLACED BY THE CONTRACTOR SHALL BE
REMOVED AND REPLACED BY THE
CONTRACTOR AT THE CONTRACTOR'S
EXPENSE.
3. ALL DIMENSIONS OF PAVING AND RETURNS
ARE GIVEN TO EDGE OF PAVING.

Sign faces are installed on any of four sides.

Street name sign
green backing with
white letters,
sign tubing is 1 1/2
x 18"



Holes 1"
o.c. four sides

Bending Design Breakway

 Cross Section

Anchor sleeve sizes is 2" x 30"

Anchor post is driven into ground: Leave 1 inch above ground

NOTE: PRIOR TO INSTALLATION, CONTRACTOR SHALL CONTACT BCPWD (843-6120) TO VERIFY EXACT LOCATION.

TYPICAL SIGN DETAIL

ALAMEDA DEL NORTE
PAVING IMPROVEMENTS, PLAN & PROFILE

C Montoya 8-21-93
N/A CAD 5-20-93
N/A PM 5/11/93

N/A RWK 8-18-93
N/A RWK 8-18-93
CR Bowman 9/6/93

BCPWD

920302

PROJECT NO	4590.90	MAP NO	B16	SHEET	5	OF	7
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[illegible]

DATE 10/92/11 2ND ST. & ALAMEDA RD NW, APPROX 24'E. OF 2ND ST & 17'N. OF ALAMEDA RD
THE BENCHMARK IS A STD NM5HC BRASS TABLET STAMPED "STA M47-1A" SET IN CONC. POST, FLUSH W/ THE GROUND ELEVATION = 4999.28

SURVEY INFORMATION		FIELD NOTES	
NC	RV		
N/A	WWP		

[illegible]

92
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12/12/12

DATE DATE

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TIFY MARK DNS N	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521
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NORTE

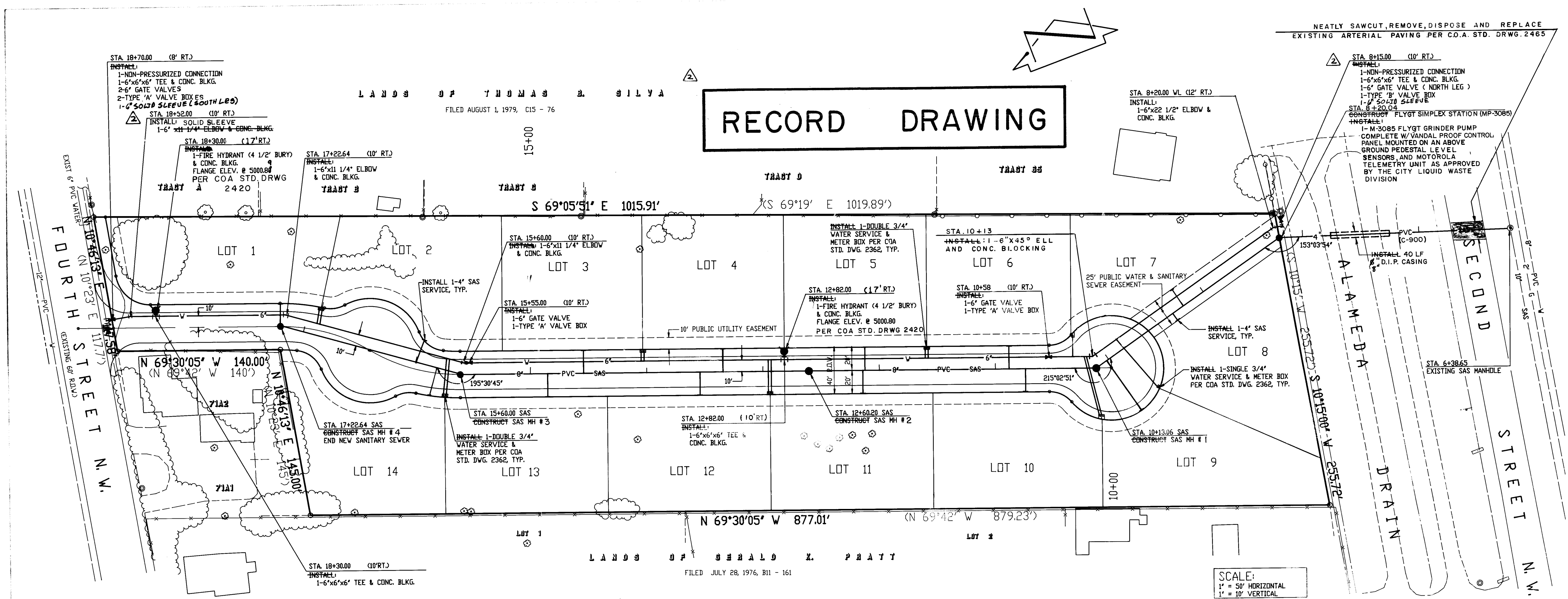
S, PLAN & PROFIL

N/A RWK 8-18

N/A RWF 8-18
CR Bowman 9/6

— SHEET — OF —

6 5 7

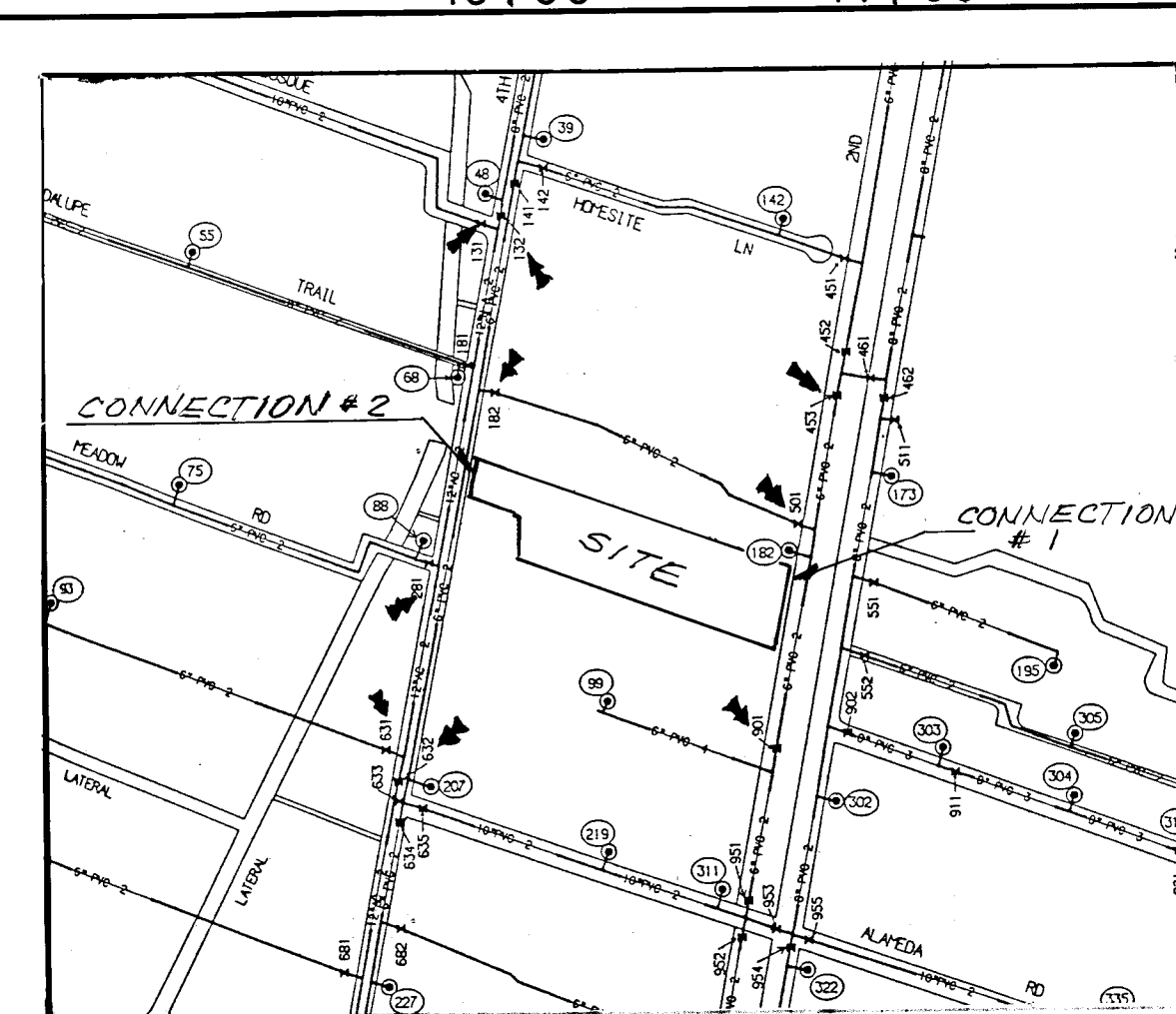


SANITARY SEWER SERVICE SCHEDULE				
LOT	STATION	SIZE	INV. @ P.L.	
1	17+22.64	4"	4997.5	
2	16+00.00	4"	4997.4	
3	14+54.00	4"	4996.8	
4	13+34.00	4"	4996.3	
5	12+12.00	4"	4995.8	
6	10+88.00	4"	4995.5	
7	9+20.00	4"	4994.7	
8	9+30.00	4"	4994.4	
9	10+00.00	4"	4995.3	
10	10+74.00	4"	4995.4	
11	12+14.00	4"	4995.8	
12	13+54.00	4"	4996.4	
13	14+85.00	4"	4996.9	
14	15+80.00	4"	4997.3	

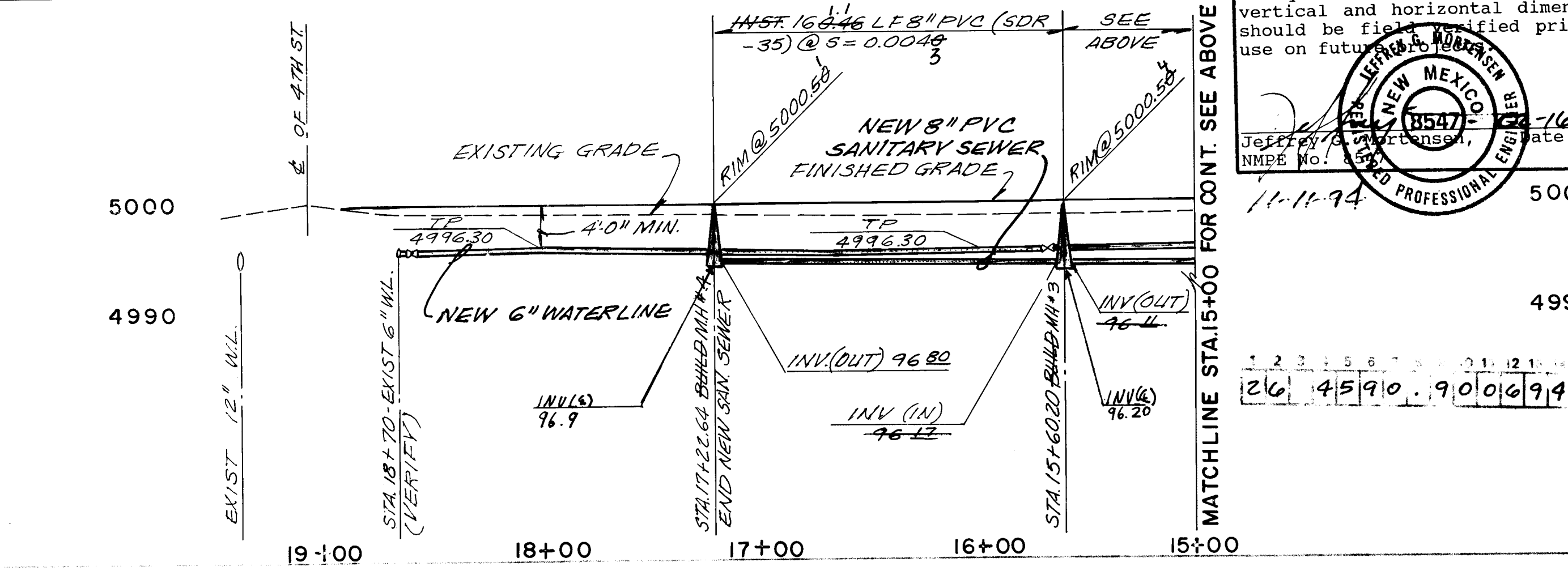
WATER SERVICE SCHEDULE		
LOTS	STATION	TYPE
1/2	AS SHOWN	DOUBLE
3/4	14+03.1	DOUBLE
5/6	11+58.79	DOUBLE
7	AS SHOWN	SINGLE
8	AS SHOWN	SINGLE
9/10	AS SHOWN	DOUBLE
11/12	12+93.87	DOUBLE
13/14	AS SHOWN	DOUBLE

- SANITARY SEWER CONSTRUCTION NOTES:**
- ALL STATIONING IS BASED ON SEWER CENTERLINE UNLESS INDICATED OTHERWISE.
 - ALL SEWER PIPE SHALL BE PVC (SDR 35).
 - 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 UNLESS OTHERWISE NOTED.
 - SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102. END 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.
 - 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 CONCRETE ENCASED FOR A DISTANCE OF 10 FEET EACH SIDE OF THE CROSSING IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.

- WATERLINE CONSTRUCTION NOTES:**
- ALL STATIONING IS BASED ON SANITARY SEWER CENTERLINE.
 - FOR ALL LINES 12" AND SMALLER, WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. FOR ALL LINES 12" AND LARGER, WATER MAIN SHALL BE CONCRETE CYLINDER OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC AND CONCRETE CYLINDER.
 - WATERLINE SHALL HAVE A MINIMUM COVER OF 4'-0" (FINISHED GRADE TO TOP OF PIPE). EXTRA DEPTH TRENCHING, IF REQUIRED, 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.



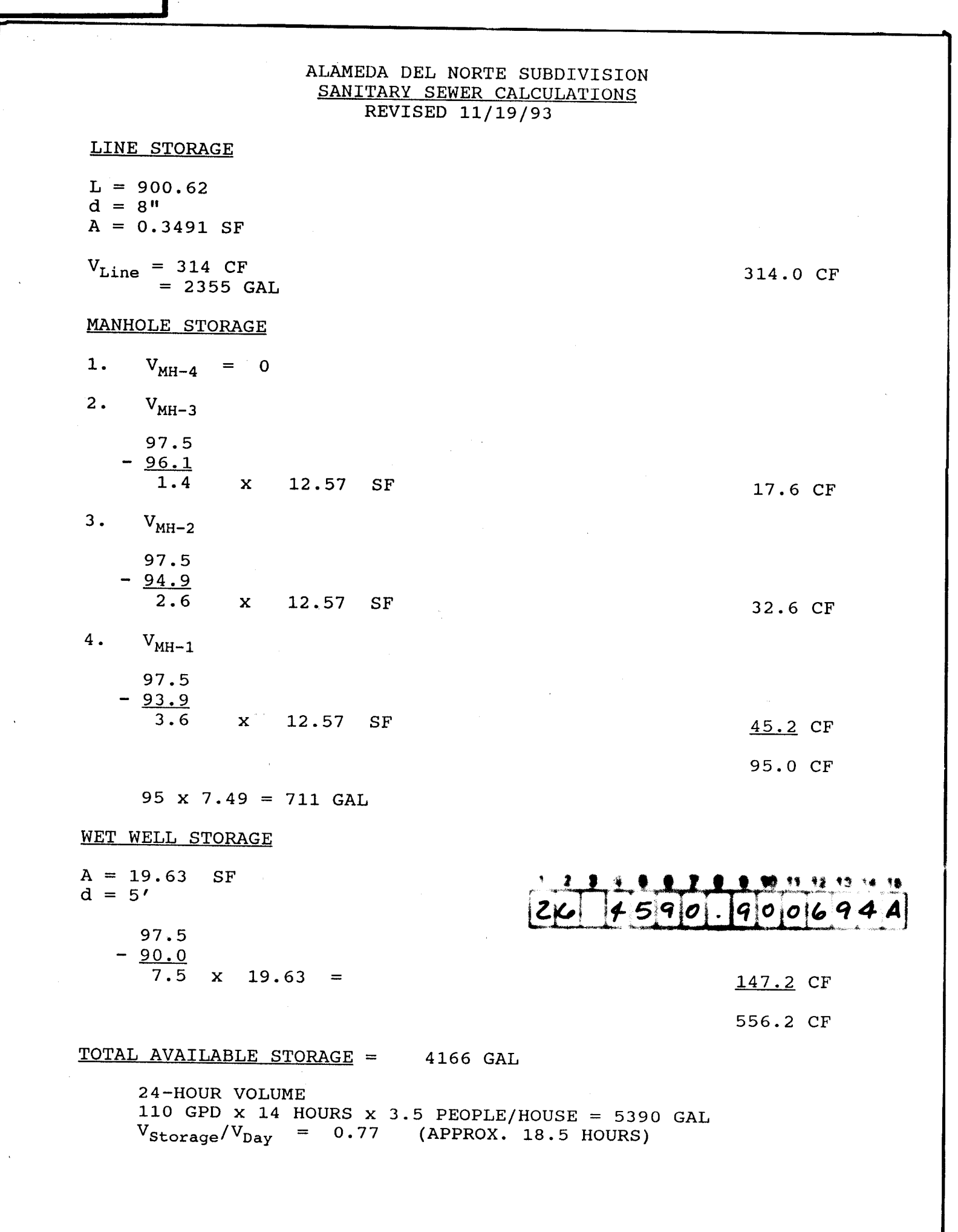
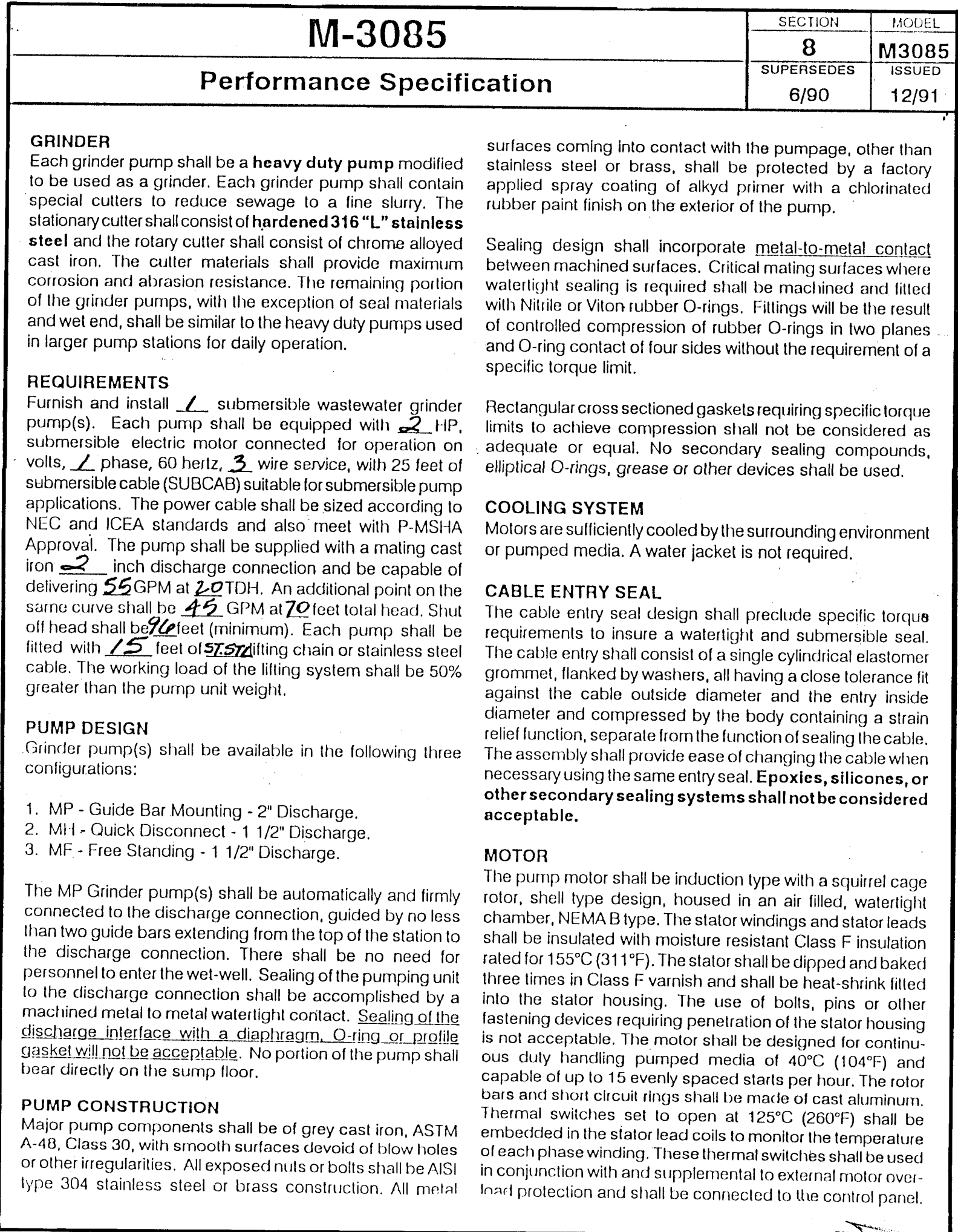
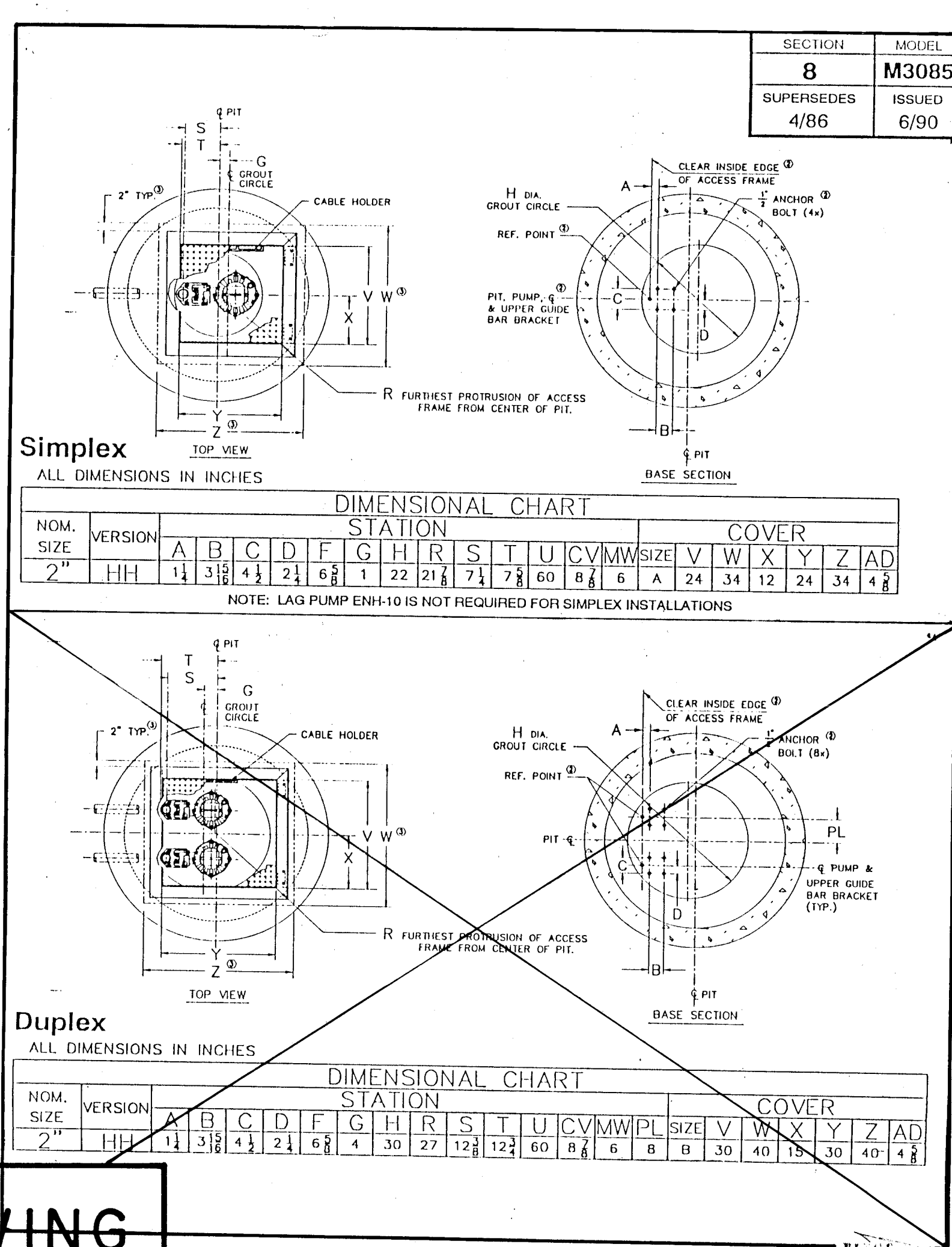
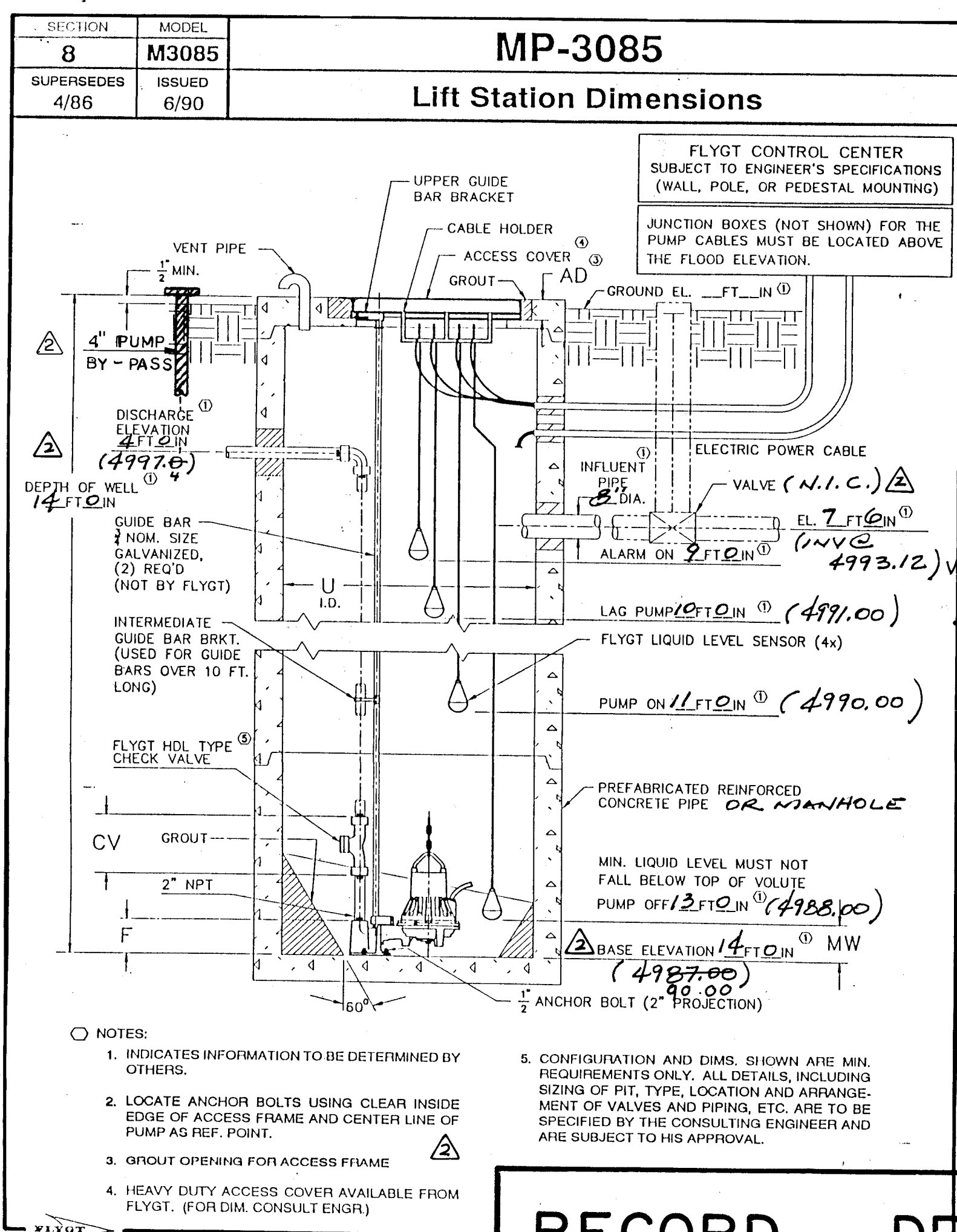
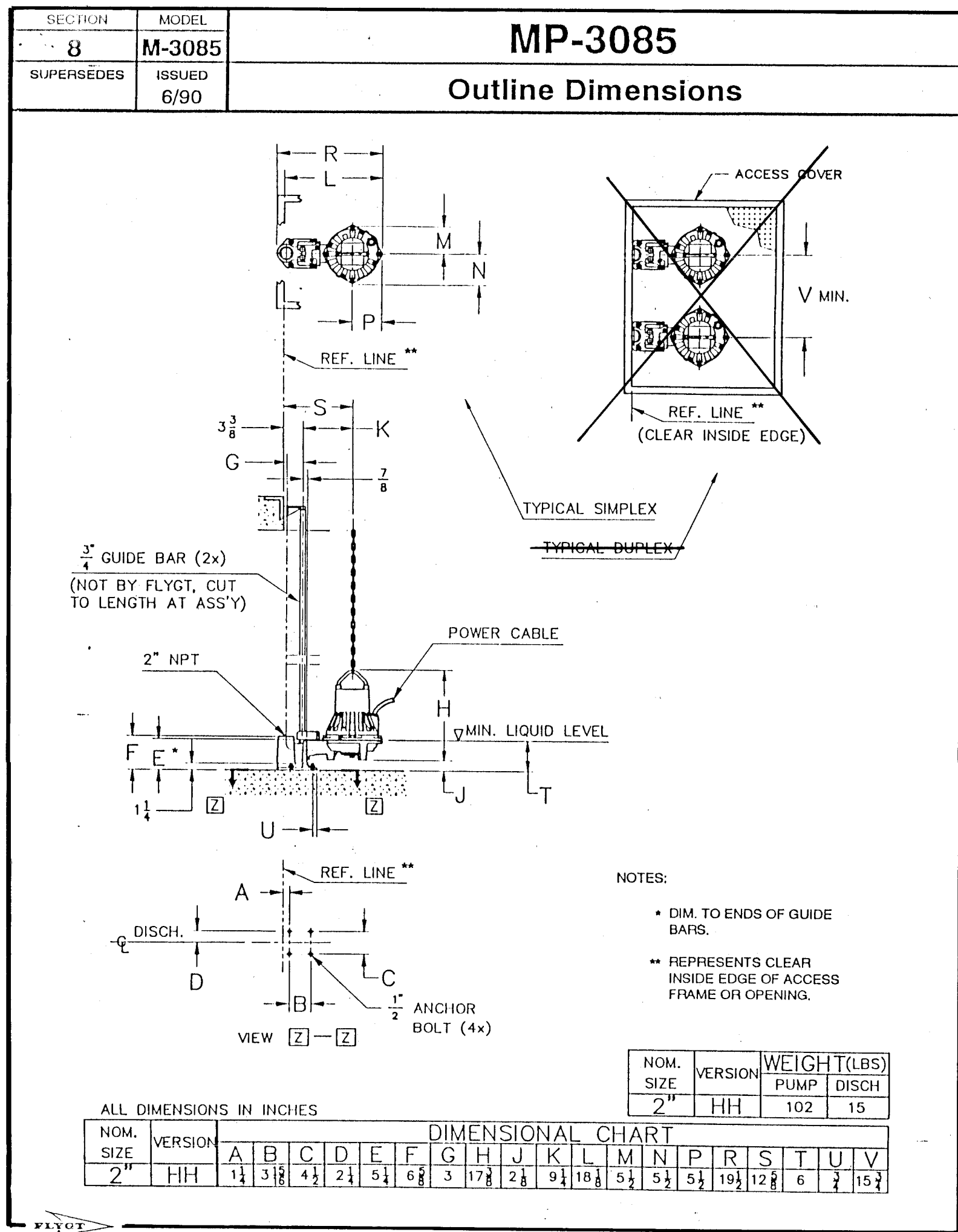
- WATER VALVE SHUTOFF PLAN NOTES:**
- AS A MINIMUM, THE FOLLOWING VALVES SHALL BE CLOSED TO FACILITATE THE FOLLOWING CONNECTIONS:
 - CONNECTION #1
453, 501, 901
 - CONNECTION #2
131, 132, 181, 182, 281, 631, 632
 - THE CONTRACTOR SHALL NOTIFY WATER SYSTEMS, THREE (3) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING WATERLINE; ALL SHUTOFFS SHALL BE PERFORMED BY THE WATER SYSTEM DIVISION PERSONNEL (847-8200).
 - THE CONTRACTOR SHALL PROVIDE ALL RESTRAINTS AND THRUST BLOCKS NECESSARY TO EFFECT THE NECESSARY SHUTOFFS AND CONNECTIONS.
 - EXISTING WATER VALVE AND WATERLINE INFORMATION OBTAINED FROM CITY OF ALBUQUERQUE AUTOMATED WATER DISTRIBUTION SYSTEM SECTIONAL MAPS, PLATE B-16.
 - AT THE TIME OF WATER SHUTOFF APPLICATION, THE CONTRACTOR SHALL REQUEST THAT THE WATER SYSTEM DIVISION NOTIFY ALL AFFECTED PROPERTY OWNERS AT LEAST 24 HOURS IN ADVANCE OF THE RESPECTIVE SHUTOFFS.



ALAMEDA DEL NORTE
WATER & SAN. SEWER EXTENSIONS
PLAN AND PROFILE

PROJECT NO. 4590.90
MAP NO. B16
SHEET 6 OF 7

DATE 12/92
BY JGM
TEW JGM
DESIGN DATE 12/92
REVISIONS
11-11-94



AS BUILT INFORMATION

CONTRACT NO. RUSS PITNEY
DATE 10/93
DESIGNED BY JMA
CHECKED BY JMA
FIELD BY JMA
REVISIONS BY G.M.
DATE 1/94
STAMPED "STA. NM 47-14" SET IN CONC. POST, FLUSH WITH THE GROUND.
CORRECTED BY G.M.
DATE 1/94
MICRO-FILM INFORMATION
RECORDED BY
DATE

BENCH MARKS

THE BENCHMARK IS LOCATED ON THE NE CORNER OF THE INTERSECTION OF N. 2nd ST. & ALAMEDA RD. N.W. APPROX. 24' EAST OF 2nd ST. & 17' NORTH OF ALAMEDA RD. THE BENCHMARK IS A STANDARD NMSHC BRASS TABLET STAMPED "STA. NM 47-14" SET IN CONC. POST, FLUSH WITH THE GROUND.
ELEVATION: 4599.28

SURVEY INFORMATION

FIELD NOTES

NO. BY DATE

NO. BY DATE

ENGINEER'S SEAL

GM BY

AS-BUILT & CERTIFY

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field checked prior to use on future projects.

NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
JEFFREY G. MORTENSEN
NO. 8547
EXPIRATION 8/94

OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: ALAMEDA DEL NORTE
LIFT STATION DIMENSIONS, SPECIFICATIONS AND CALCULATIONS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG. CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY					

PROJECT NO. 4590.90

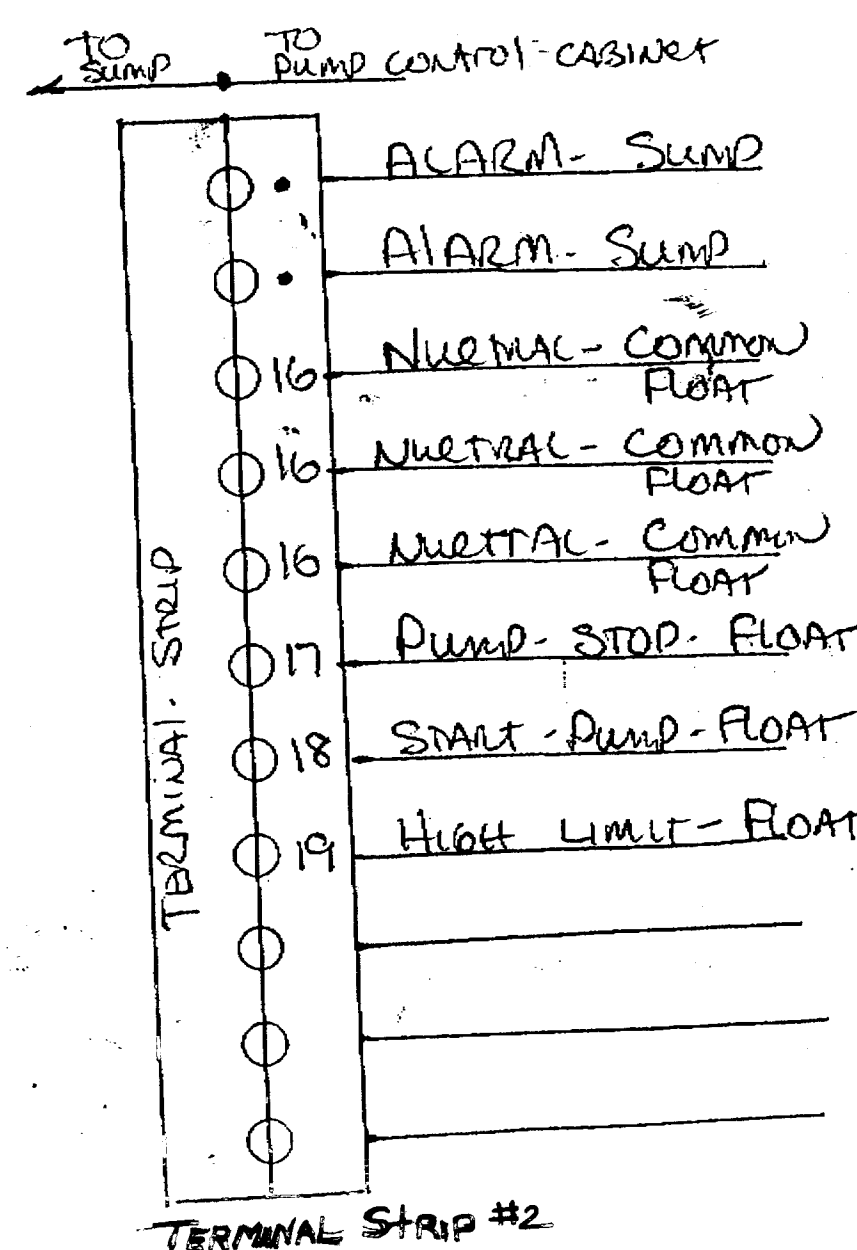
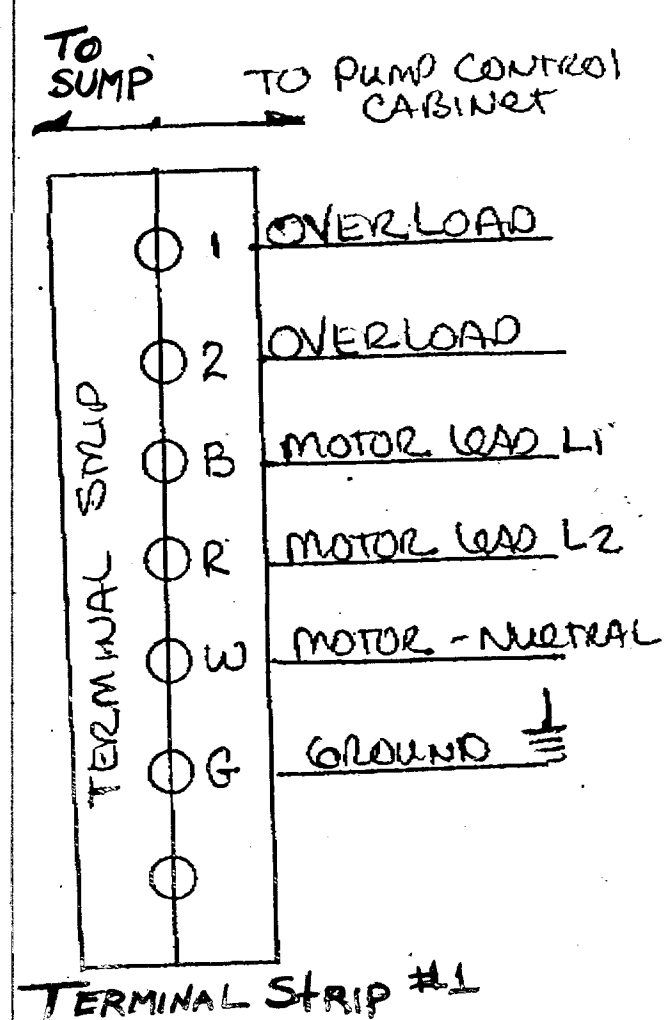
MAP NO. B-16

SHEET 6A OF 7

PROJECT NO. 4576.70	MAP NO. B-11c	SHEET 40 OF 7
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RECORD DRAWING

QUICK DISCONNECT BOX
AT SUMP ACCESS HOLE.



MOTOR - LEAD - L1
MOTOR - LEAD - L2
MOTOR - LEAD - NUMBER
MOTOR - LEAD - END. $\frac{1}{2}$

HIGH - LIMIT - TO TELE.CAS

HIGH - LIMIT - TO TELE.CAS

PUMP. RUN - TO TELE. CAS

PUMP. RUN - TO TELE. CAS

PUMP FAIL - TO TELE. CAS

PUMP FAIL - TO TELE. CAS

COMMON - FLOATS

STOP - PUMP - FLOAT

START - PUMP - FLOAT

HIGHT LIMIT - FLOAT

Sump Alarm-Cont.
11-02-14
Sump Alarm-Cont.

RADIO ALARM-CONT.
-# 20 -#
RADIO ALARM- CONT.

Pump Control Panel
Alarm Contact
-1- or -#-
Pump Control Panel
Alarm Contact

GROUND - EARTH

L2-Nuetaal-120V

L1 - HOT - 120V

High Limit 11W17

High Limit
7/11

Primo Primo

11 fund fund

Primo Fall

TF Pump Fail

Jeffrey G. Mort
NMPE NO. 854

OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **ALAMEDA DEL NORTE**
LIFT STATION ELECTRICAL CABINETS
WIRING DIAGRAMS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY					
PROJECT NO. 4590.90			MAP NO. B-16		SHEET 6C OF 7

TERMINAL-STRIP- Pump Control CABINET

ALL CONNECTIONS BY PUMP
MANUFACTURER.

RADIO TELEMETRY CABINET

WIRING-BY- CITY OF ALBUQ.
OR. BERN, CO.

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was provided by Northridge Electric as representation of the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief and should be field verified prior to use on future projects.

Jeffrey G. Mortensen
NMPE NO. 8547

OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **ALAMEDA DEL NORTE**
LIFT STATION ELECTRICAL CABINETS
WIRING DIAGRAMS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY					
PROJECT NO. 4590.90			MAP NO. B-16		SHEET 6C OF 7

SURVEY INFORMATION	BENCH MARKS	AS BUILT INFORMATION
NO.	FIELD NOTES BY DATE	N/A N/A RUSSELL PITNEY
	N/A	DRAWN BY MDS DATE 11/94
		CHECKED BY MDS DATE 11/94
		VERIFICATION BY MDS DATE 11/94
		DRAWINGS BY MICRO-FILM INFORMATION
		RECORDED BY NO DATE

ENGINEER'S SEAL

MDS	
BY	

DATE 11/94
DATE 11/94
DATE 11/94

AS-BUILT & CERTIFY	
NO	DATE
REMARKS	
REVISIONS	
DESIGN	
DESIGNED BY	NORTHRIIDGE ELECTRIC D
DRAWN BY	NORTHRIIDGE ELECTRIC D
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VALS	ENGINEER	DATE
ATER		
SHEET	OF	7

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 ACCESSSES. 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 ACCESSSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.

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

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

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

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

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

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

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

11. CONTRACTOR SHALL NOT BEGIN WORK BEFORE 8:30 A.M. OR END WORK AFTER 4:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

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

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

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

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

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

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

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

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

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

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

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

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

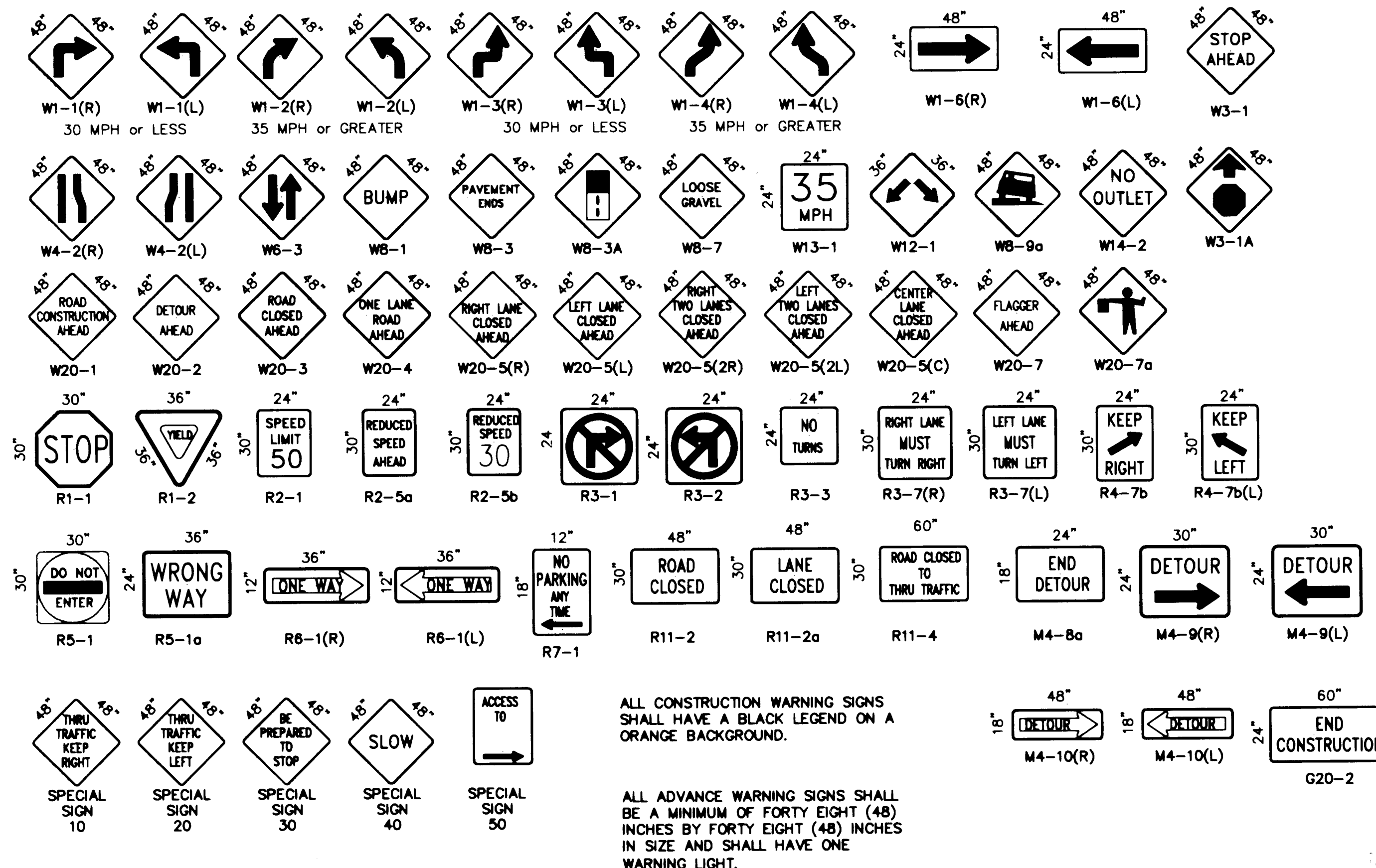
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.

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

PROJECT CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

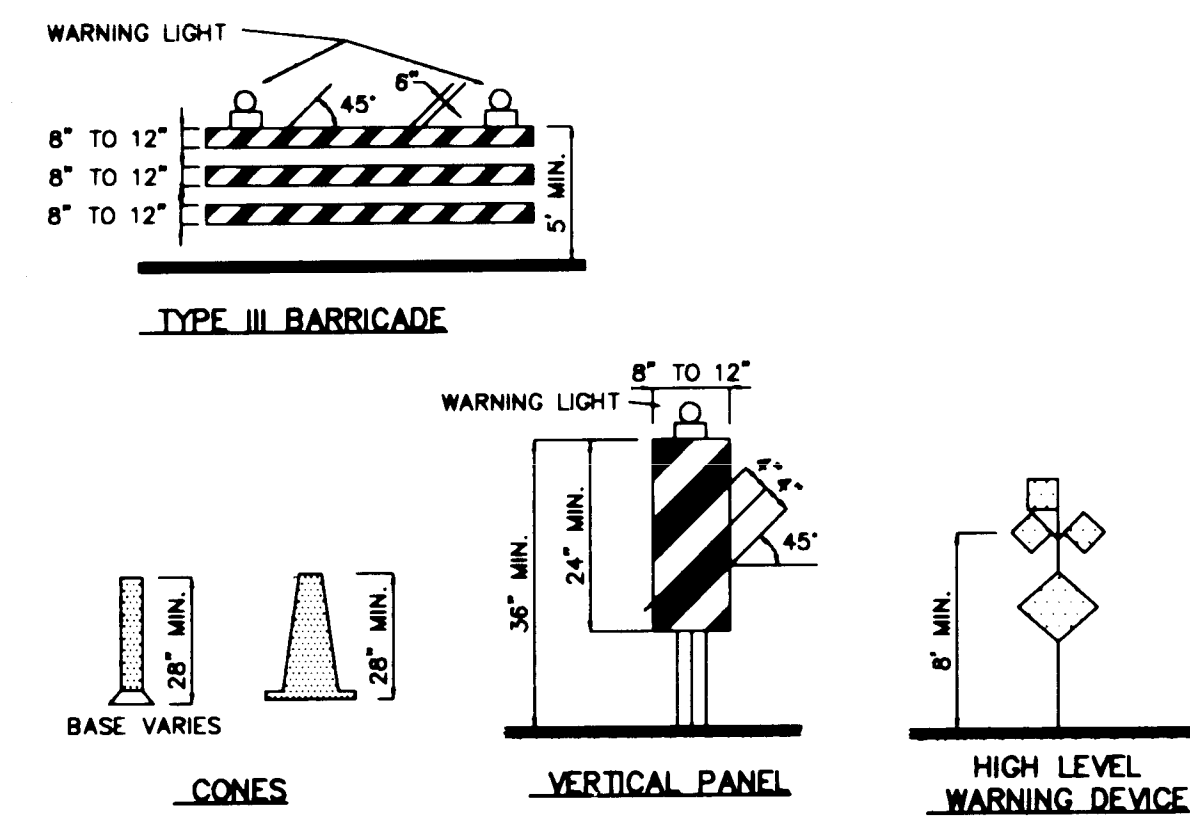
RECORD DRAWING

SIGN FACE DETAILS



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

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



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 (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 FOR ADVANCE WARNING SIGN SERIES

SPEED MILES PER HOUR	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:	
MERGING 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	
40 MPH OR LESS	$L = \frac{W^2}{80}$
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	

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: ALAMEDA DEL NORTE					
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	C.M.P.	8-18-97	WATER	N/A. R.W.	8-18-97
TRANSPORTATION	N/A. R.W.	8-18-97	WASTE WATER	N/A. R.W.	8-18-97
HYDROLOGY			BCPWD	AR Bowman	9/6/93
PROJECT NO. 4590.90		MAP NO. B-16		SHEET OF 7A 7	

