

SANDIA GLOW

A 19 UNIT TOWNHOUSE DEVELOPMENT

CITY OF ALBUQUERQUE, NEW MEXICO

GRADING, PAVING, DRAINAGE, & CITY UTILITIES

PLANS JANUARY 1999

INDEX TO DRAWINGS

UTILITY COMPANY CONTACTS

CITY OF ALBUQUERQUE
(Water & Sanitary Sewer)
800 Old
P&E/Utility Development
P.O. Box 1293
Albuquerque, NM 87103
(505) 766-2719

PNM

4201 Edin Blvd N.E.
Albuquerque, New Mexico 87107
(505) 848-3486

GAS CO.

4625 Edin Blvd. N.E.
Albuquerque, New Mexico 87107
(505) 761-7703

US WEST COMMUNICATIONS

201 Third Street
P.O. Box 1306, Ste. 952
Albuquerque, New Mexico 87103
(505) 245-8705

AT&T

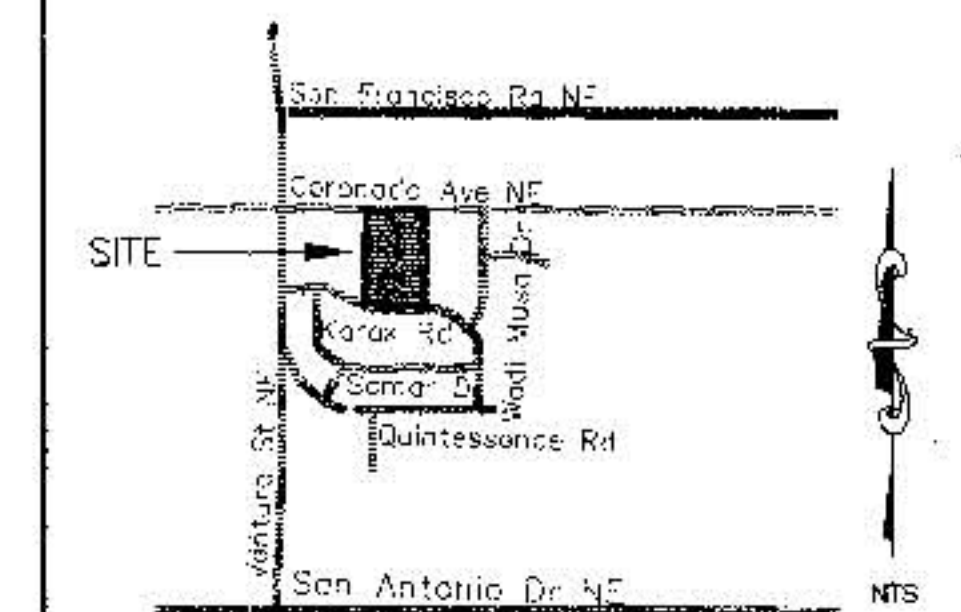
111 Third St. NW
Albuquerque, New Mexico 87103
(505) 842-2805

JONES INTERCABLE

Karen Shore
4811 Monetta Pl. NE
P.O. Box 27135
Albuquerque, NM 87125-7138
(505) 781-8220

ABBREVIATIONS:

AC - ASBESTOS CEMENT	DD - DEFLECT DOWN	FO - FIBER OPTIC CABLE	PRC - POINT OF REVERSE CURVATURE	SAS - SANITARY SEWER
ARY - AIR/VACUUM RELEASE VALVE	DIP - DUCTILE IRON PIPE	G - GAS	PRV - PRESSURE RELIEF VALVE	SD - STORM DRAIN
B - BASELINE	DU - DEFLECT UP	HP - HIGH PRESSURE	PT - POINT OF TANGENCY	TD - TOP OF CURVE
BCT - BEGIN CROWN TRANSITION	E - EXISTING	I - INSTALL	PUE - PUBLIC UTILITY EASEMENT	T - TELEPHONE
C - CONSTRUCT	ECT - END CROWN TRANSITION	LP - LIGHT POLE	R/REL - REMOVE & RELOCATE	TL - TRAFFIC LIGHT
CAV - COMBINATION AIR VALVE	ELEV - ELEVATION	NH - MANHOLE	R/RPLC - REMOVE & REPLACE	TP - TOP OF PIPE
CCP - CONCRETE CYLINDER PIPE	F-F - FACE TO FACE	NMUI - NEW MEXICO UTILITIES, INC.	PVC - POLY VINYL CHLORIDE	UE - UNDERGROUND ELECTRIC
CI - CAST IRON	F/F - FEET/FOOT	PC - POINT OF CURVATURE	REM - REMOVE	VCP - VITRIFIED CLAY PIPE
CL - CENTERLINE	PH - FIRE HYDRANT	PCC - POINT OF COMPOUND CURVATURE	REL - RELOCATE	VER - VERIFY LOCATION
COA - CITY OF ALBUQUERQUE	FL - FLOW LINE	PDC - POINT ON CURVE	ROW - RIGHT-OF-WAY	W OR WL - WATERLINE
		PP - POWER POLE		X - CROSSING



LOCATION MAP
ZONE ATLAS MAP NO. D-21-Z

GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FROM HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED WITH UPDATE NO. 6.
- CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER NOT LESS THAN (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 BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEY SECTION. WHEN A CHANGE IS MADE IN 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 GENERAL CONDITIONS OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (786-2551) PRIOR TO OCCUPANCY AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (280-1990) FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING PAVEMENT. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
- THE CONTRACTOR SHALL CONTACT WATER SYSTEMS DIVISION (257-8260) FIVE (5) WORKING DAYS PRIOR TO NEEDING SHUT-OFF OR TURN-ON OF VALVES. ONLY CITY WATER SYSTEMS PERSONNEL ARE AUTHORIZED TO OPERATE VALVES.
- RESTRAINED JOINTS ARE REQUIRED AT ALL WATER LINE BENDS, TEES, CAPS AND GATE VALVES.
- THE PUBLIC WATER LINE MUST BE A MINIMUM OF 12" ABOVE THE SEWER LINE AT ALL CROSSINGS.
- THE CONTRACTOR SHALL FURNISH EMO'S ON ALL WATER AND SEWER SERVICE STUDS, CAPS AND PLUGS.
- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURN SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- IF CURB IS DEPRESSIONED FOR A DRIVEPAD OR A MANICAP 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.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO EXISTING LOCATION OR AS INDICATED BY THIS PLAN SET.
- ANY WORK OCCURRING IN AN ARTERIAL ROADWAY REQUIRES TWENTY FOUR (24) HOUR NOTICE BEFORE CONSTRUCTION STARTS.
- THE CONTRACTOR SHALL SECURE A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.

GENERAL NOTES (CONT.)

- THE CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE OWNERS FOR PREPARATION OF "RECORD DRAWINGS". THE CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- WATERLINE CONNECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY DWG. 2301.
- WATER METERS ARE TO BE INSTALLED AT ALL SERVICES IN ACCORDANCE WITH CITY STD. DWG. 2362 AND 2363.
- ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY OR EASEMENT MUST BE DONE FROM APPROVED WORK ORDER DOCUMENTS FROM THE CITY OF ALBUQUERQUE AND PREPARED BY BOKAY CONSTRUCTION, INC.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING, IN ADVANCE OF HIS CONSTRUCTION, IF OVERHEAD UTILITY LINES SUPPORT STRUCTURES, POLES, GUYS, ETC., ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION TO CONSTRUCTION OPERATIONS IS EVIDENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COST ASSOCIATED WITH THIS EFFORT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR IS TO SUPPORT AND MAINTAIN THE INTEGRITY OF ALL UNDERGROUND TELEPHONE, ELECTRIC CABLES, AND CABLE TELEVISION UTILITIES AT NO ADDITIONAL COST TO THE OWNER. CABLE IS TO BE SUPPORTED EVERY 15' (MINIMUM). CONTRACTOR SHALL COORDINATE WITH AND MAKE NECESSARY PAYMENT (IF ANY) TO UTILITY OWNER FOR DE-ENERGIZATION OF CABLES OR SUPPORT OF CABLES BY THE UTILITY OWNER.
- DEVELOPER SHALL ACQUIRE DUST CONTROL PERMIT BEFORE START OF CONSTRUCTION. DEVELOPER SHALL REMOVE HOME BUILDER TO OBTAIN DUST CONTROL PERMIT BEFORE START OF HOME CONSTRUCTION.
- THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENT, PAVEMENT MARKINGS, C & G, DRIVEPADS, W.C. RAMPS AND S.W. DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE PER C.D.A. STANDARDS AT HIS OWN EXPENSE.

NOTICE

- THE ENGINEER HAS UNDERTAKEN LIMITED FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO RESPONSIBILITY PERTAINING THERETO AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

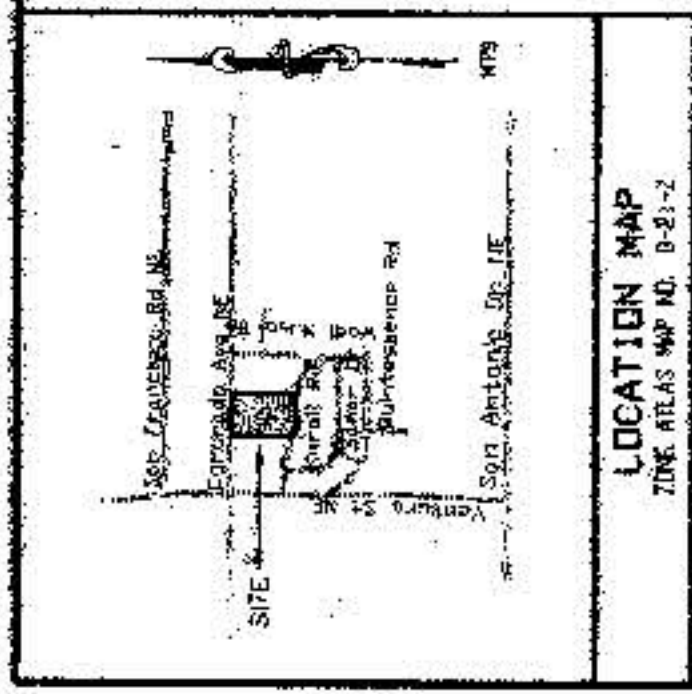
NOTICE

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE INTENDED FOR USE ON THIS PROJECT AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF BOKAY CONSTRUCTION, INC. IN THE EVENT OF UNAUTHORIZED USE, THE USER ASSUMES ALL RESPONSIBILITY AND LIABILITY WHICH RESULTS.

BOKAY CONSTRUCTION, INC.
ENGINEERING SERVICES • CONSTRUCTION MANAGEMENT
5905 AZULEJO CT. NW
ALBUQUERQUE, NM 87120
(505) 899-9556

APPROVAL OF AS BUILT DRAWINGS
CITY ENGINEER
Edin Chang
DATE 3/4/00

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEER'S STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE	*****			
	DRC Chairman	<i>Edin Chang</i>	7-15-99	APPROVED FOR CONSTRUCTION			
	Transportation	<i>Edin Chang</i>	7-15-99				
	Water/Wastewater	<i>Edin Chang</i>	6-16-99				
	Hydrology	<i>Edin Chang</i>	6-15-99				
	Perks	<i>Edin Chang</i>	6-15-99				
Contr. Mgmt.	<i>Edin Chang</i>	6-15-99					
Traffic	<i>Edin Chang</i>	6-15-99					
City Project No.	603181			SHEET 1 OF 13			



SUBDIVISION DATA

1.	LOT 1-19	19.00
2.	LOT 20-39	19.00
3.	LOT 40-59	19.00
4.	LOT 60-79	19.00
5.	LOT 80-99	19.00
6.	LOT 100-119	19.00
7.	LOT 120-139	19.00
8.	LOT 140-159	19.00
9.	LOT 160-179	19.00
10.	LOT 180-199	19.00
11.	LOT 200-219	19.00
12.	LOT 220-239	19.00
13.	LOT 240-259	19.00
14.	LOT 260-279	19.00
15.	LOT 280-299	19.00
16.	LOT 300-319	19.00
17.	LOT 320-339	19.00
18.	LOT 340-359	19.00
19.	LOT 360-379	19.00
20.	LOT 380-399	19.00
21.	LOT 400-419	19.00
22.	LOT 420-439	19.00
23.	LOT 440-459	19.00
24.	LOT 460-479	19.00
25.	LOT 480-499	19.00
26.	LOT 500-519	19.00
27.	LOT 520-539	19.00
28.	LOT 540-559	19.00
29.	LOT 560-579	19.00
30.	LOT 580-599	19.00
31.	LOT 600-619	19.00
32.	LOT 620-639	19.00
33.	LOT 640-659	19.00
34.	LOT 660-679	19.00
35.	LOT 680-699	19.00
36.	LOT 700-719	19.00
37.	LOT 720-739	19.00
38.	LOT 740-759	19.00
39.	LOT 760-779	19.00
40.	LOT 780-799	19.00
41.	LOT 800-819	19.00
42.	LOT 820-839	19.00
43.	LOT 840-859	19.00
44.	LOT 860-879	19.00
45.	LOT 880-899	19.00
46.	LOT 900-919	19.00
47.	LOT 920-939	19.00
48.	LOT 940-959	19.00
49.	LOT 960-979	19.00
50.	LOT 980-999	19.00

PLAT OF
LOTS 1-19
SANDIA GLOW
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
MARCH 1999

LOCATION MAP
THE ALBUQUERQUE, NEW MEXICO

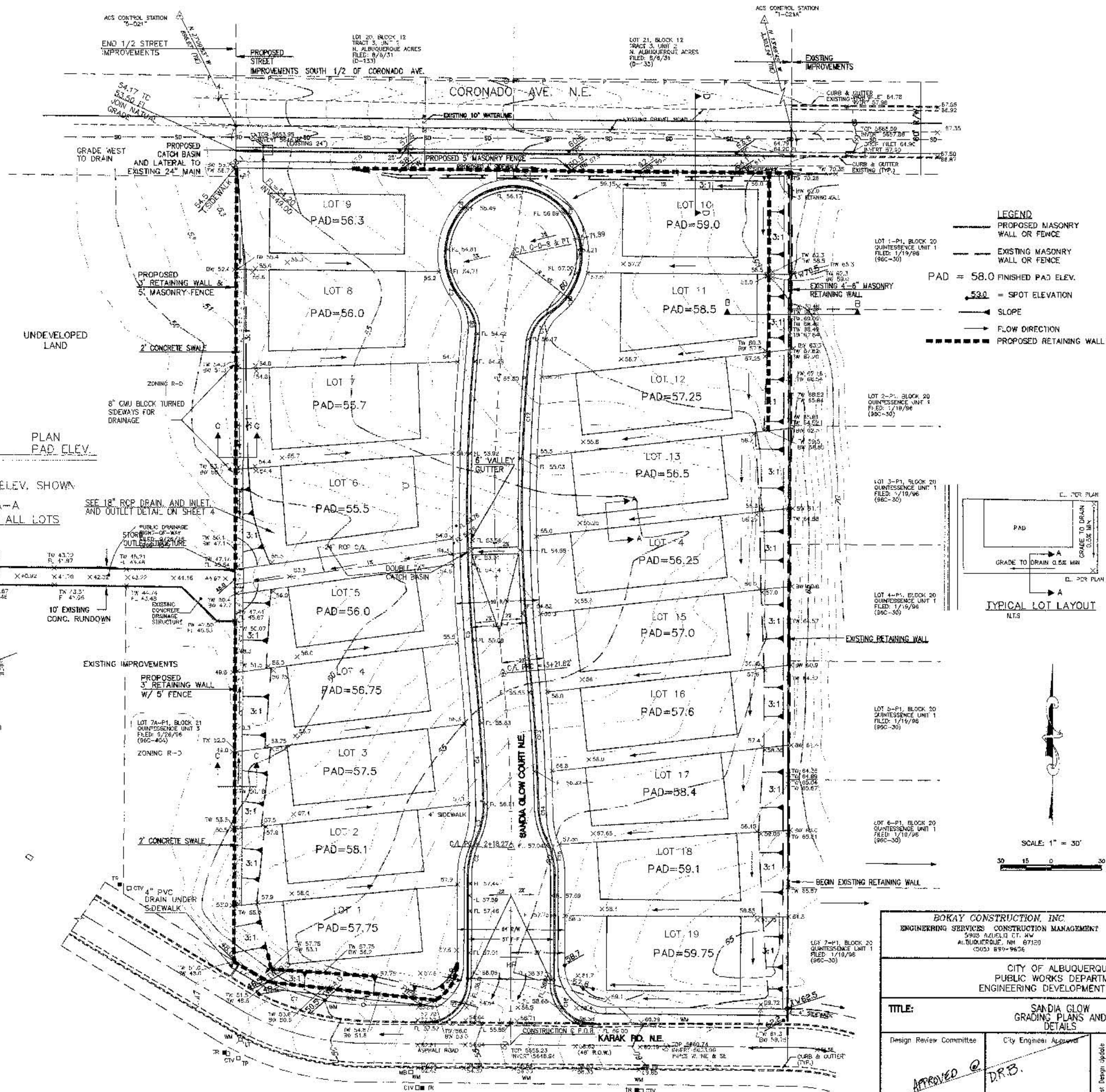
LEGAL DESCRIPTION
Being that certain parcel of land situated within the El Paso Valley, within Section 18, Township 1 North, Range 1 East, New Mexico Principal Meridian, Albuquerque, Bernalillo County, New Mexico, being identified as Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 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, 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578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 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LOT GRADING SPECIFICATIONS

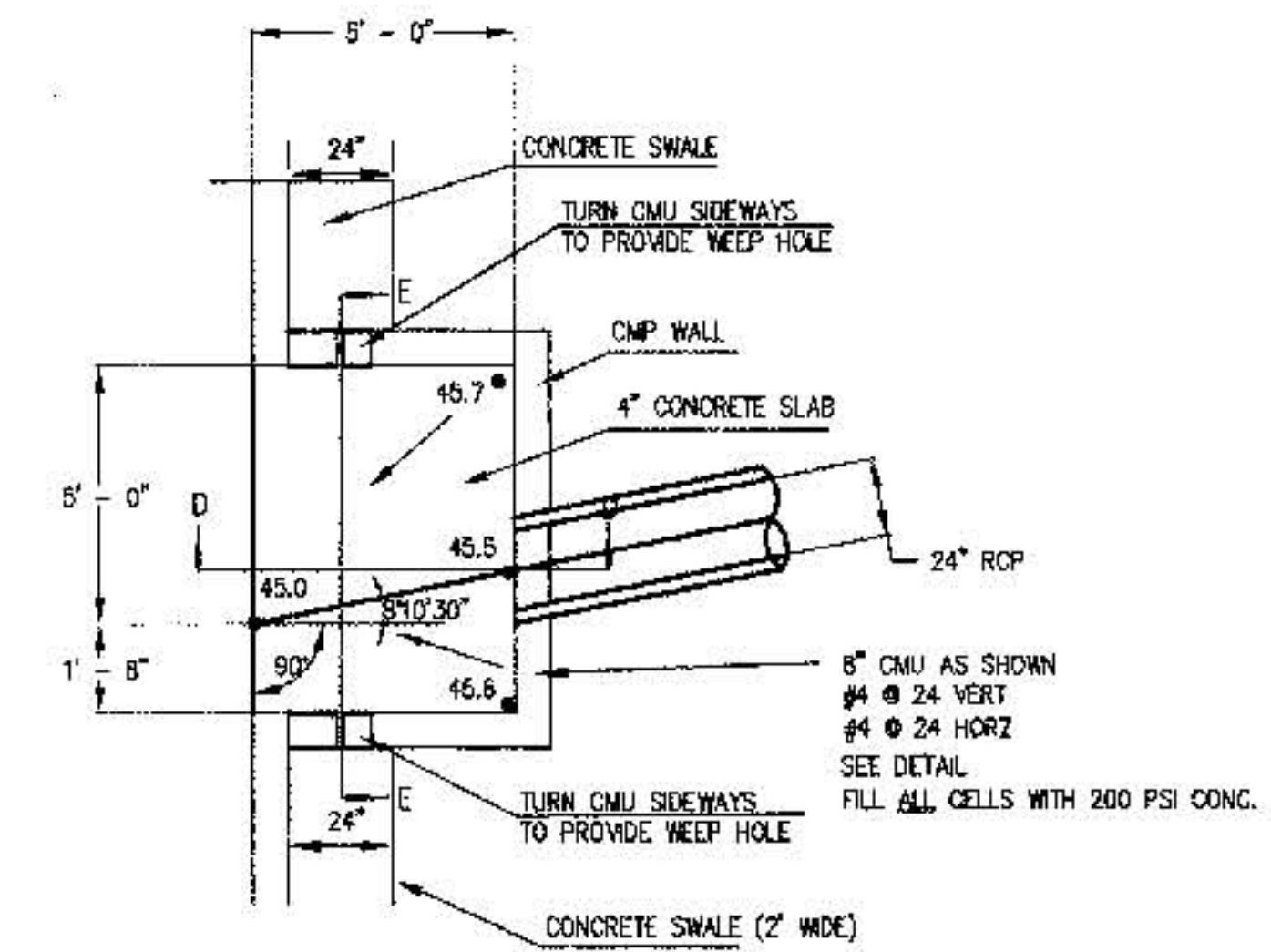
- CROSS LOT DRAINAGE WILL BE PERMITTED ON LOTS 1 THRU 8.
- CRITERIA FOR SETTING LOT ELEVATION CONTROL GRADES SHALL INCLUDE THE FOLLOWING:
 - ALL DRAINAGE SWALES AND YARD AREAS SHALL HAVE MINIMUM SLOPES OF 1% AND MAXIMUM SLOPES OF 3 HORIZONTAL TO 1 VERTICAL.
 - BUILDING PADS SHALL BE SET AT LEAST 0.25' ABOVE THE HIGHEST ELEVATION OF ADJACENT SWALES.
 - PAD ELEVATIONS WILL BE ASSUMED TO BE EQUAL TO FINISHED FLOOR OF GARAGE. LONGITUDINAL GRADIENT OF DRIVEWAY SHALL NOT BE LESS THAN ONE PERCENT (1%), NOT STEEPER THAN TEN PERCENT (10%), IF DRIVEWAY IS ALSO USED AS A REQUIRED SIDEWALK. IF USED ONLY AS A DRIVEWAY, THE LONGITUDINAL GRADIENT SHALL NOT EXCEED 12%.
 - USABLE YARD AREAS SHALL HAVE MINIMUM DIMENSIONS OF 20'x15', SHALL HAVE MINIMUM SLOPES OF 1% AND MAXIMUM SLOPES OF 4.1.
- WHERE YARD GRADES OF ADJACENT LOTS AT PROPERTY LINES CANNOT BE MATCHED USING THE ABOVE CRITERIA, RETAINING WALLS SHALL BE PROVIDED TO ACCOMMODATE GRADE DIFFERENTIALS.
- ALL GARDEN WALLS SHALL BE CONSTRUCTED OF MASONRY.
- CONTRACTOR SHALL OBTAIN A TOPSOIL DISTURBANCE PERMIT PRIOR TO GRADING.
- ALL ROOF DRAINAGE WILL BE TO THE FRONT OF THE LOT, TO THE STREET.
- ALL GRADING OPERATIONS WILL BE DONE AS PER THE RECOMMENDATIONS IN THE GEOTECHNICAL INVESTIGATION REPORT FOR THE SANDIA GLOW SUBDIVISION PREPARED BY VINYARD & ASSOC. INC. THEIR PROJECT NO. 97-1-221, DATED AUGUST 22, 1997 AND AS DIRECTED BY THE OWNER'S ENGINEER.
- MINIMUM PAD DEPTH IS 60'.
- ALL SIDE YARD SETBACKS ARE 10' MINIMUM OR AS SHOWN.
- ZONE MAP Z-21.

NOTE:

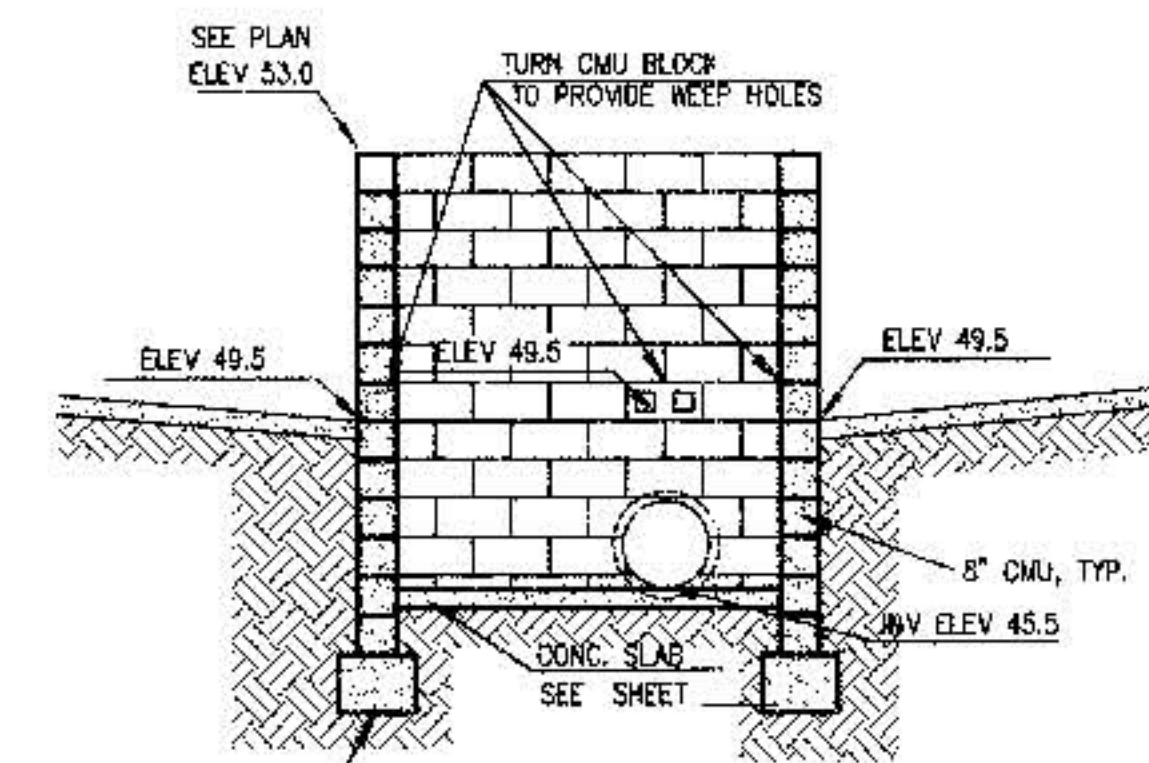
MASONRY FENCE AROUND ALL REAR PROPERTY LINES



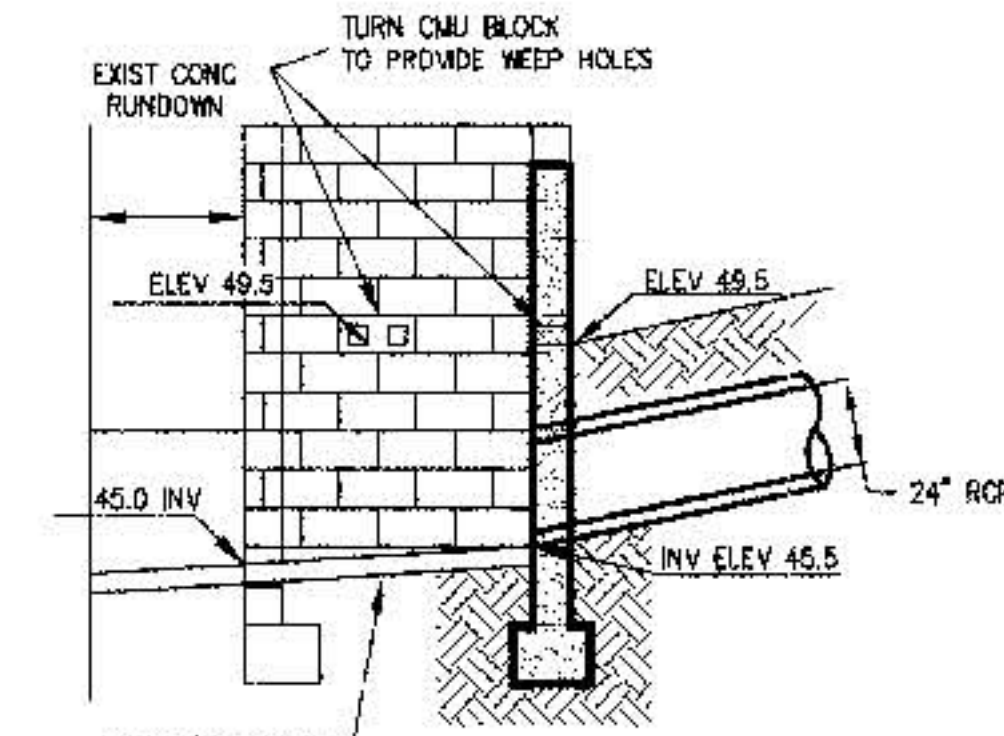
AS BUILT INFORMATION CONTRACT NO. <u>603181</u> DATE <u>8/99</u> DESIGNED BY <u>C.G.A.</u> CHECKED BY <u>U. France</u> DATE <u>8/99</u> PREPARED BY <u>U. France</u> DATE <u>8/99</u> MICRO-FILM INFORMATION RECORDED BY <u>NO.</u> DATE <u>NO.</u>																	
BENCH MARKS ELEVATIONS SHOWN ARE SLD 1929 DATUM ELEVATIONS BASED ON CITY OF ALBUQUERQUE BENCHMARK "5-021" ELEVATION = 5650.56 LOCATED EAST OF HOLBROOK STREET SOUTH OF PINK ARROYO																	
SURVEY INFORMATION FIELD NOTES NO. <u>NO.</u> BY <u>NO.</u> DATE <u>NO.</u>																	
ENGINEER'S SEAL 																	
REVISIONS <table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>By</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>XX-98</td> <td>BO K. JOHNSON</td> <td>Design</td> </tr> <tr> <td>2</td> <td>XX-98</td> <td>DONALD MCCLURY</td> <td>Check</td> </tr> <tr> <td>3</td> <td>XX-98</td> <td>BO K. JOHNSON</td> <td>Check</td> </tr> </tbody> </table>		No.	Date	By	Remarks	1	XX-98	BO K. JOHNSON	Design	2	XX-98	DONALD MCCLURY	Check	3	XX-98	BO K. JOHNSON	Check
No.	Date	By	Remarks														
1	XX-98	BO K. JOHNSON	Design														
2	XX-98	DONALD MCCLURY	Check														
3	XX-98	BO K. JOHNSON	Check														
TITLE: SANDIA GLOW GRADING PLANS AND DETAILS																	
Design Review Committee City Engineer Approved Approved @ <u>D.R.B.</u>	City Project No. <u>603181</u> Zone Map No. <u>D-21-Z</u> Sheet <u>3</u> of <u>13</u>																



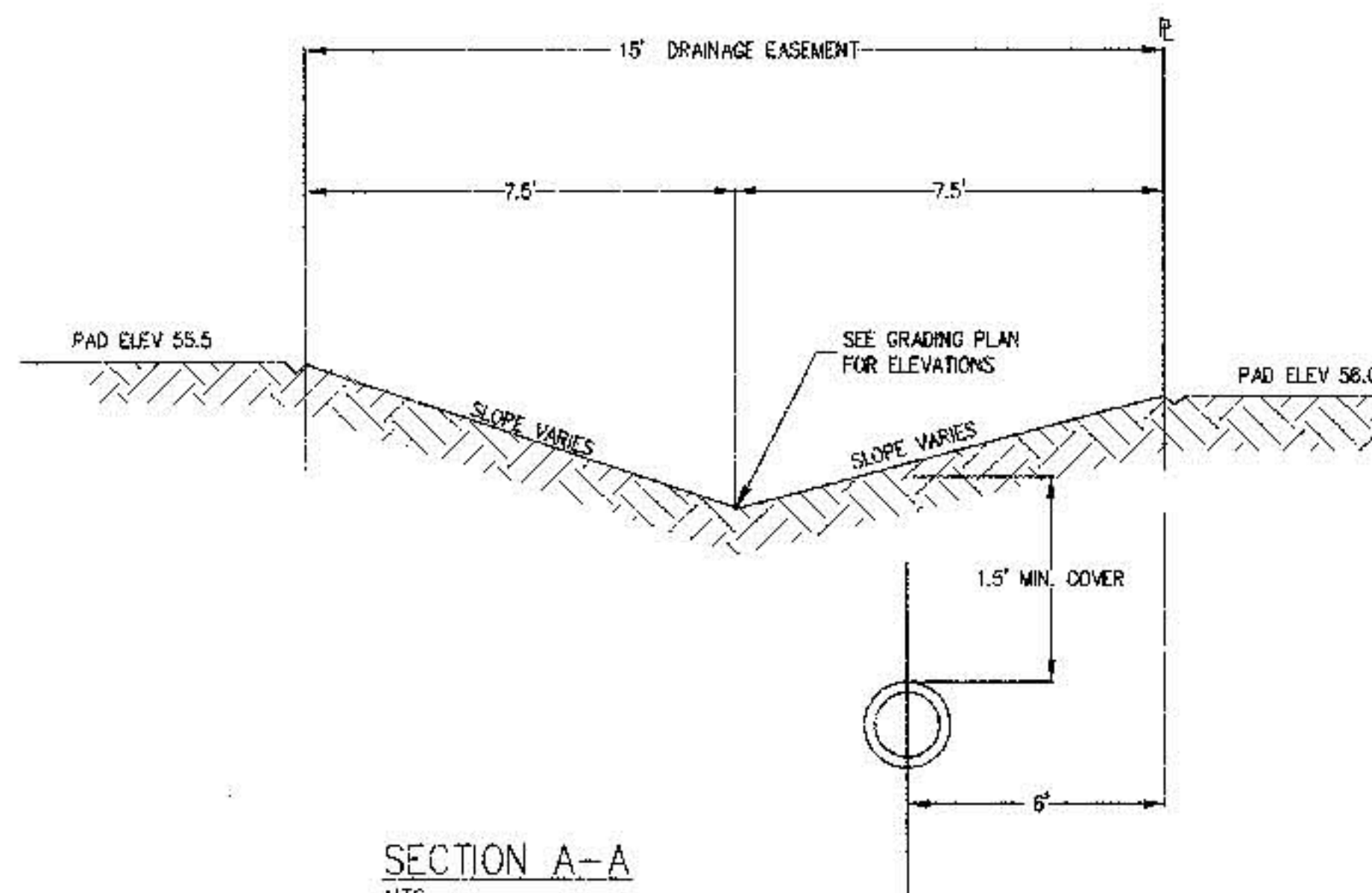
DETAIL B - OUTLET STRUCTURE
NTS



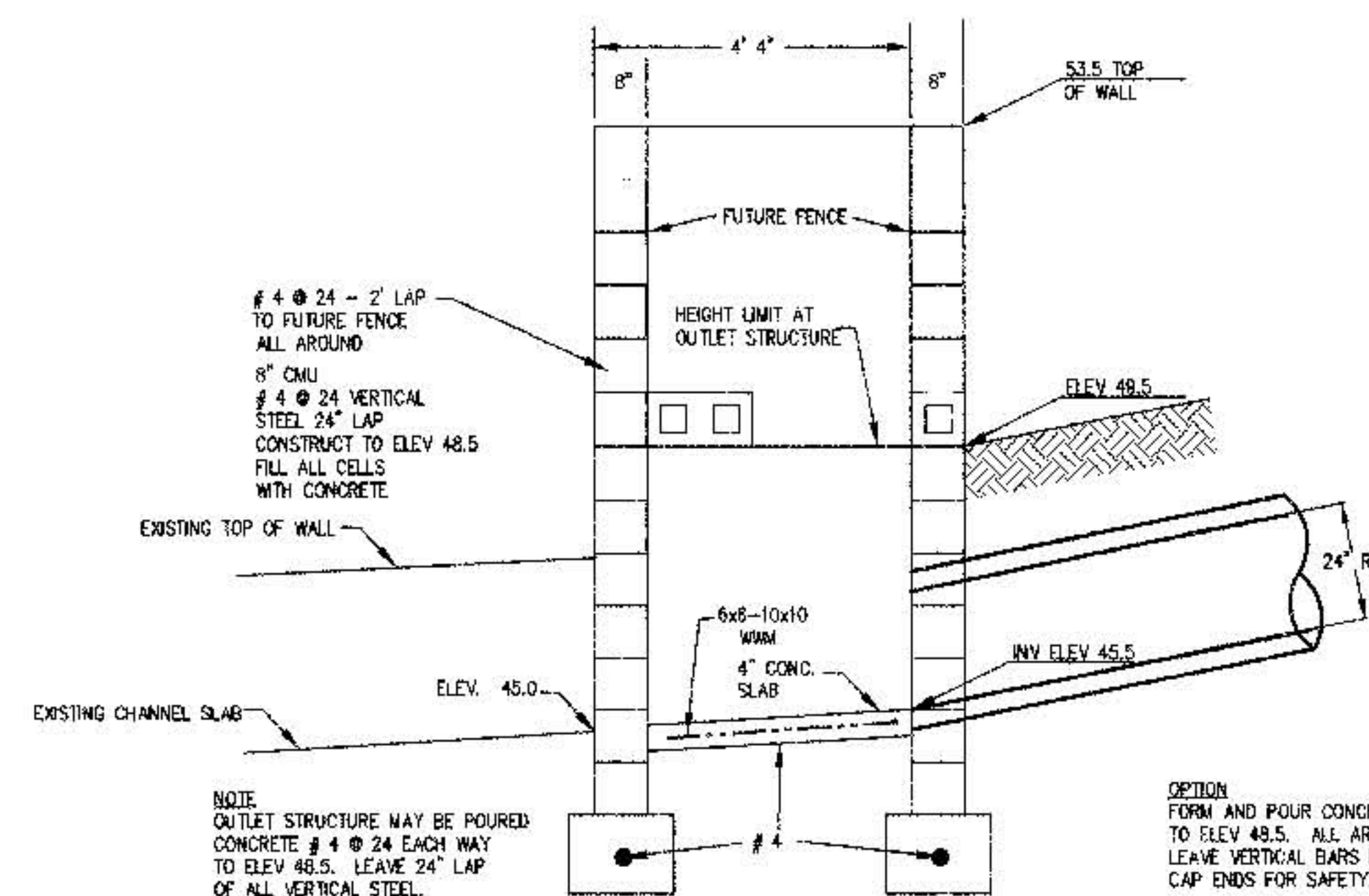
SECTION E-E
NTS



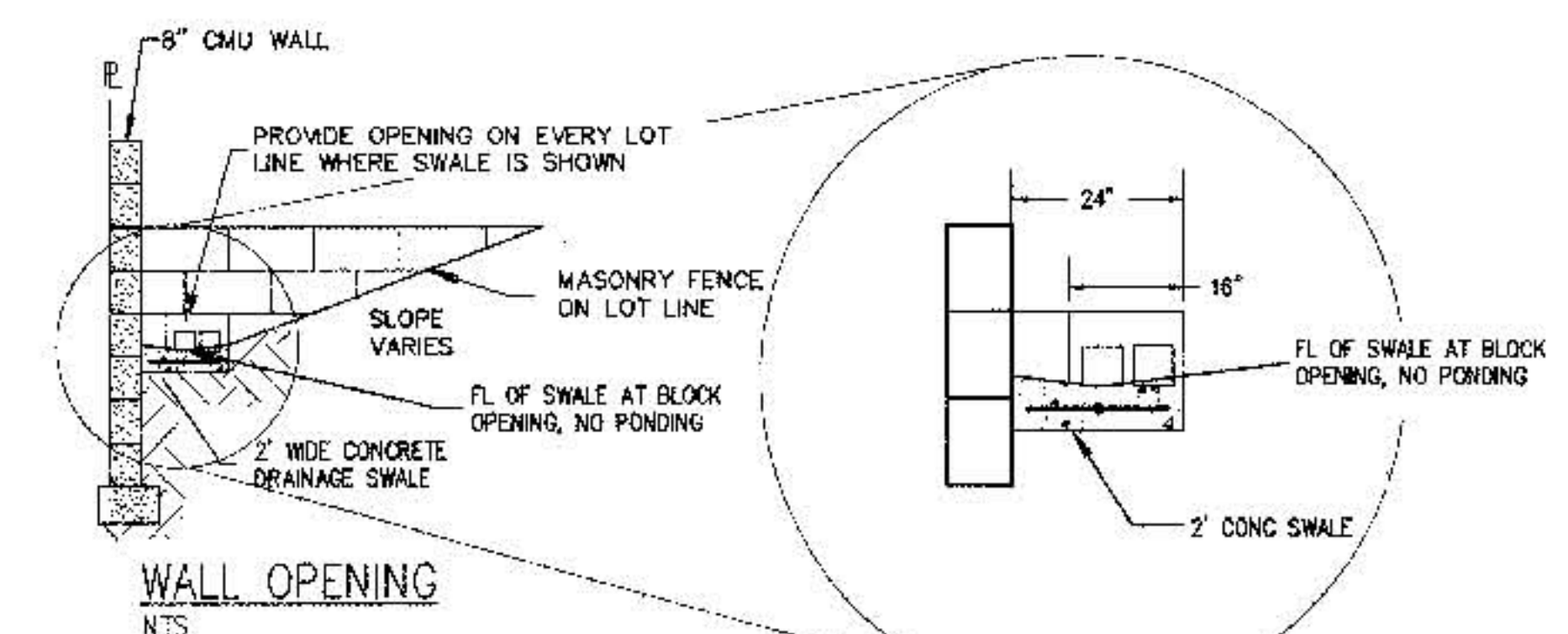
SECTION D-D
NTS

DRAINAGE RUNDOWN INTERSECTION
NTS

SECTION A-A
NTS



DETAIL C - STRUCTURAL DETAILS



WALL OPENING
NTS

BOKAY CONSTRUCTION, INC.
ENGINEERING SERVICES CONSTRUCTION MANAGEMENT
3905 AZULEO CT. NW
ALBUQUERQUE, NM 87120
(505) 879-3656

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: SANDIA GLOW
GRADING AND DRAINAGE DETAILS

Design Review Committee

City Engineer Approval

	3
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Spence

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
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Open Air

City Project No. 603181

Zone Map No.

She

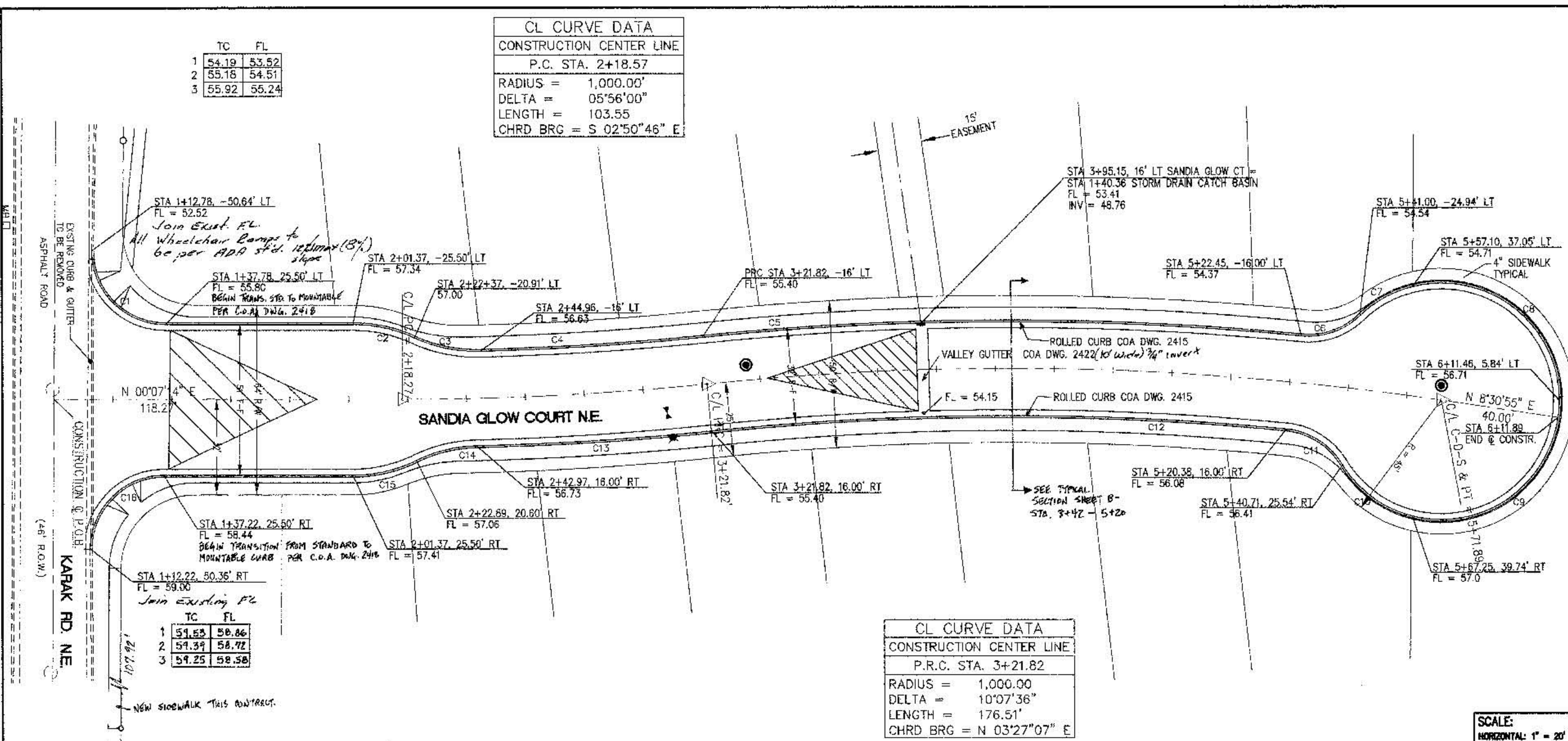
et

4

Qf 1 -

TC	FL
1	54.19
2	55.18
3	55.92

CL CURVE DATA	
CONSTRUCTION CENTER LINE	
P.C. STA.	2+18.57
RADIUS =	1,000.00'
DELTA =	05°56'00"
LENGTH =	103.55
CHRD BRG =	S 02°50'46" E

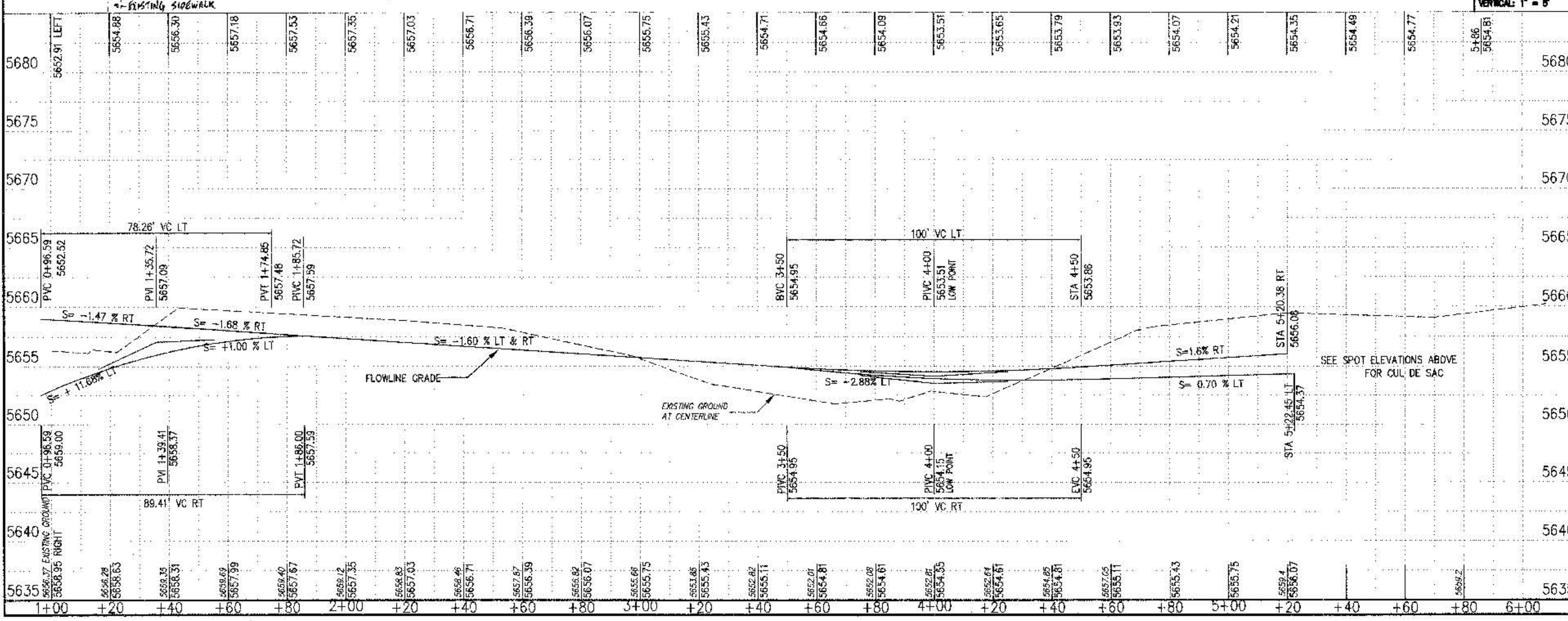


CL CURVE DATA	
CONSTRUCTION CENTER LINE	
P.R.C. STA.	3+21.82
RADIUS =	1,000.00
DELTA =	10°07'36"
LENGTH =	176.51'
CHRD BRG =	N 03°27'07" E

- LEGEND**
- ===== EXISTING CURB & GUTTER
 - ===== PROPOSED MOUNTABLE CURB & GUTTER
 - CENTERLINE OF STREET
 - PROPOSED CONCRETE VALLEY GUTTER
 - PROPOSED WHEELCHAIR RAMP
 - EXISTING PAVING
 - TRANSITION FROM CROWN TO NO-CROWN, 50' COA DWG. 2401
 - PROPOSED MANHOLE
 - PROPOSED FIRE HYDRANT
 - PROPOSED GATE VALVE
 - EXISTING MANHOLE

FLOWLINE OF CURB CURVE TABLE				
CURVE	RADIUS	DELTA	LENGTH	CHRD BEAR
C1	25.00	90°19'11"	35.45	N45°16'49"E
C2	50.00	24°43'29"	21.41	N12°28'58"E
C3	50.00	26°15'15"	23.71	N11°43'05"E
C4	984.00	04°24'13"	75.61	N03°36'39"E
C5	1016.00	11°29'43"	203.50	N00°03'54"W
C6	25.00	49°29'28"	20.93	N19°03'47"W
C7	40.00	28°55'22"	20.53	N28°55'22"E
C8	40.00	104°09'27"	63.11	N38°02'30"E
C9	40.00	104°47'53"	63.38	S27°28'49"E
C10	40.00	43°01'46"	29.34	S36°26'00"W
C11	25.00	52°23'03"	22.07	S31°45'21"W
C12	984.00	11°22'36"	193.06	S00°07'28"E
C13	1016.00	04°31'04"	80.09	S03°39'14"E
C14	50.00	24°11'45"	20.96	S13°23'34"E
C15	50.00	25°36'41"	22.16	S12°41'06"E
C16	25.00	89°40'49"	35.26	S44°43'11"E

SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'



ENGINEER'S SEAL

REVISIONS

No.	Date	By	Remarks

DESIGNED BY: BO KAY CONSTRUCTION, INC.
CHECKED BY: BO KAY CONSTRUCTION, INC.
DATE: 11/11/98

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: SANDIA GLOW
PAVING PLAN AND PROFILE
SANDIA GLOW COURT

City Project No. 603181 **Zone Map No.** D-21-Z **Sheet** 6 **Of** 13

STATION
N 27°08'53" W
896.67' (TL)

LOT 20, BLOCK 12
TRACT 3, UNIT 2
N. ALBUQUERQUE ACRES
FILED: 8/6/31
(D-133)

LOT 21, BLOCK 12
TRACT 3, UNIT 2
N. ALBUQUERQUE ACRES
FILED: 8/6/31
(D-133)

ACS CONTROL STATION
"1-C21A"

N 13°49'45" W
3303.24' (TL)

CORONADO AVE. N.E.

EXISTING 10" WATERLINE

EXISTING GRAVEL ROAD

EXISTING ASPHALT ROAD

EXIST SIDEWALK

CURB & GUTTER EXISTING (TYP.)

CURB & GUTTER EXISTING (TYP.)

STA: 0+00.10, 14.70' RT
TC ELEV = 5654.49

BEGIN CONSTRUCTION
OF HALF STREET PER
TYP. CORONADO ROAD
CROSS SECTION
SEE SHEET 8

LOT 9

LOT 10

LOT 11

LOT 8

C/L C-D-S & PT = 5+71.89

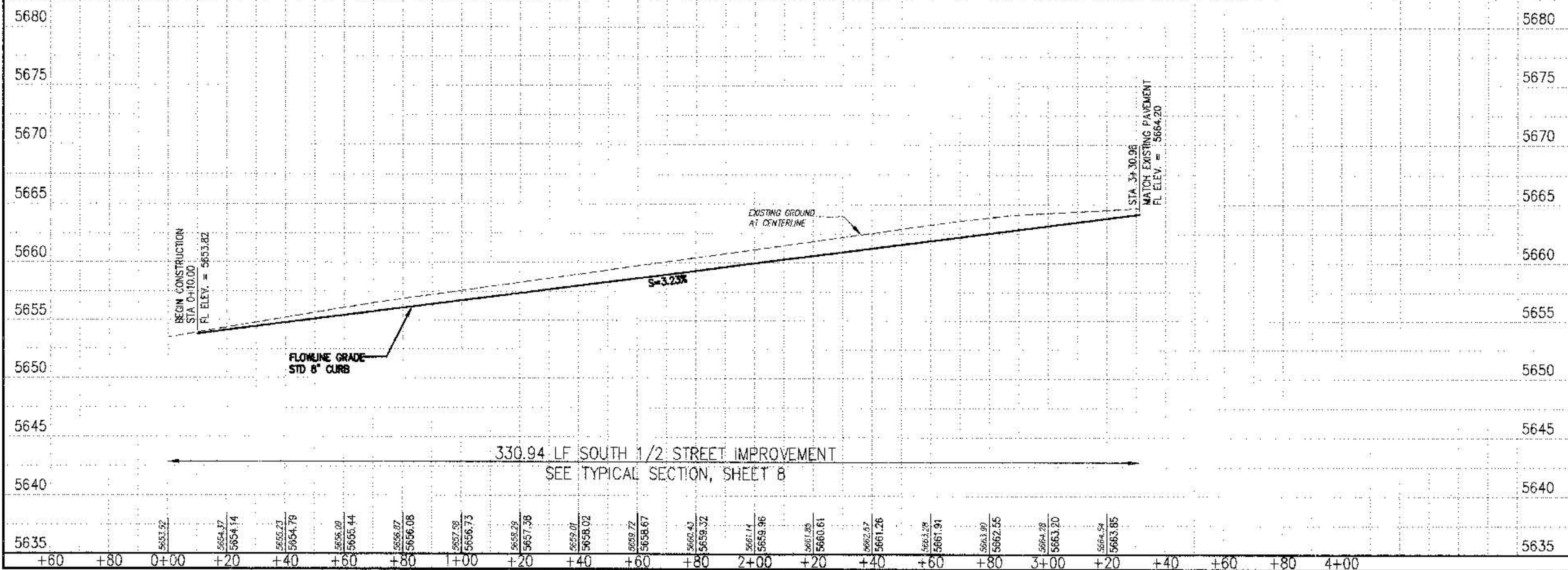
R = 45'

STA 3+31.03, 14.62' RT
TC ELEV = 5664.87

END CONSTRUCTION
MATCH EXISTING CURB & PAVEMENT

LOT 1-21, BLOCK 20
QUINTESSENCE UNIT 1
FILED: 1/19/96
(96C-30)

SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 8'



	EXISTING CURB & GUTTER
	PROPOSED MOUNTABLE CURB & GUTTER
	PROPOSED STANDARD CURB & GUTTER
	CENTERLINE OF STREET

 PROPOSED CONCRETE VALLEY GUTTER

 PROPOSED WHEELCHAIR RAMP

 EXISTING
PAYING

 PROPOSED
PAVING

 PROPOSED MANHOLE
 PROPOSED FIRE HYDRANT
 PROPOSED GATE VALVE
 EXISTING MANHOLE

AS BUILT INFORMATION		MEASUREMENT INFORMATION	
DATE	DATE	DATE	DATE
BY	BY	BY	BY
FOR	FOR	FOR	FOR
REVISION	REVISION	REVISION	REVISION

[illegible][illegible][illegible]

BOKAY CONSTRUCTION, INC.
ENGINEERING SERVICES CONSTRUCTION MANAGEMENT
5905 AZULEO ST. NW
ALBUQUERQUE, NM 87120
(505) 899-9656

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

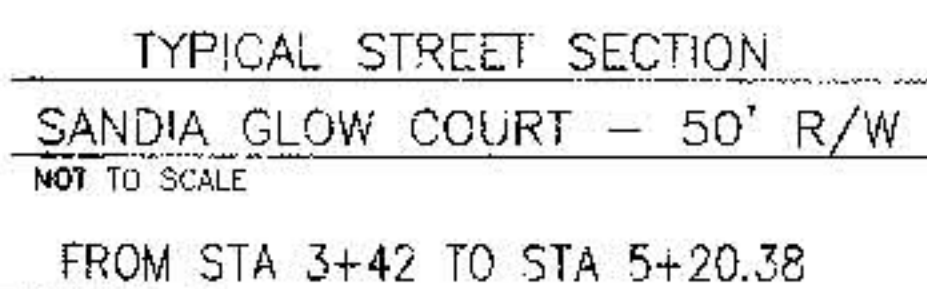
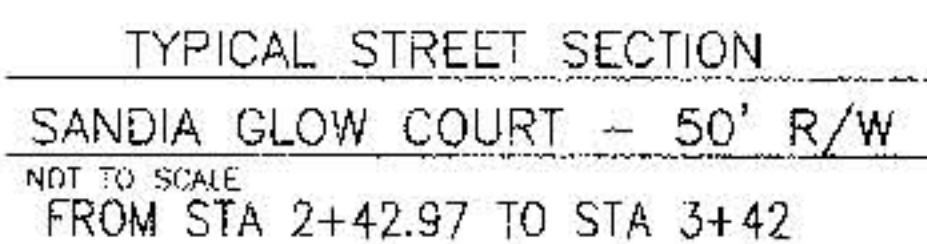
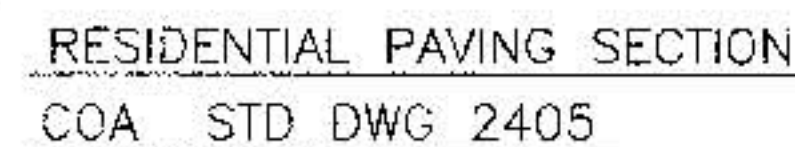
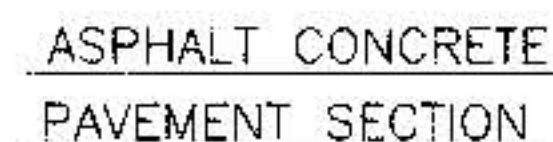
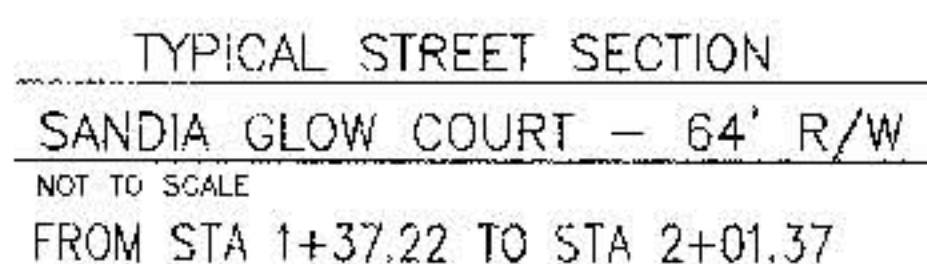
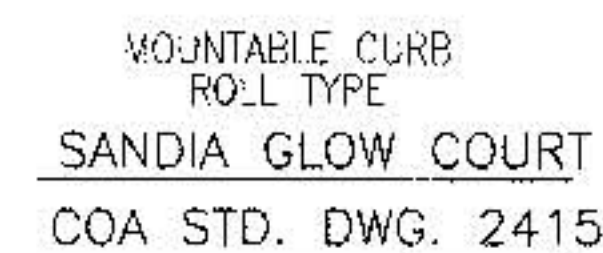
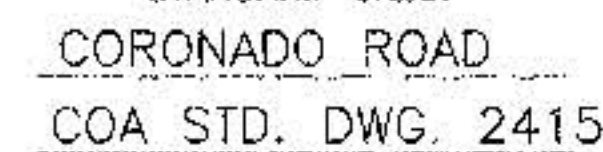
TITLE: SANDIA GLOW
PAVING PLAN AND PROFILE
CORONADO ROAD

Design Review Committee

City Engineer Approval

	No. Spots	No. Vendors

City Project No.	603181	Zone Map No.	D-21-Z	Sheet	7	Of	13
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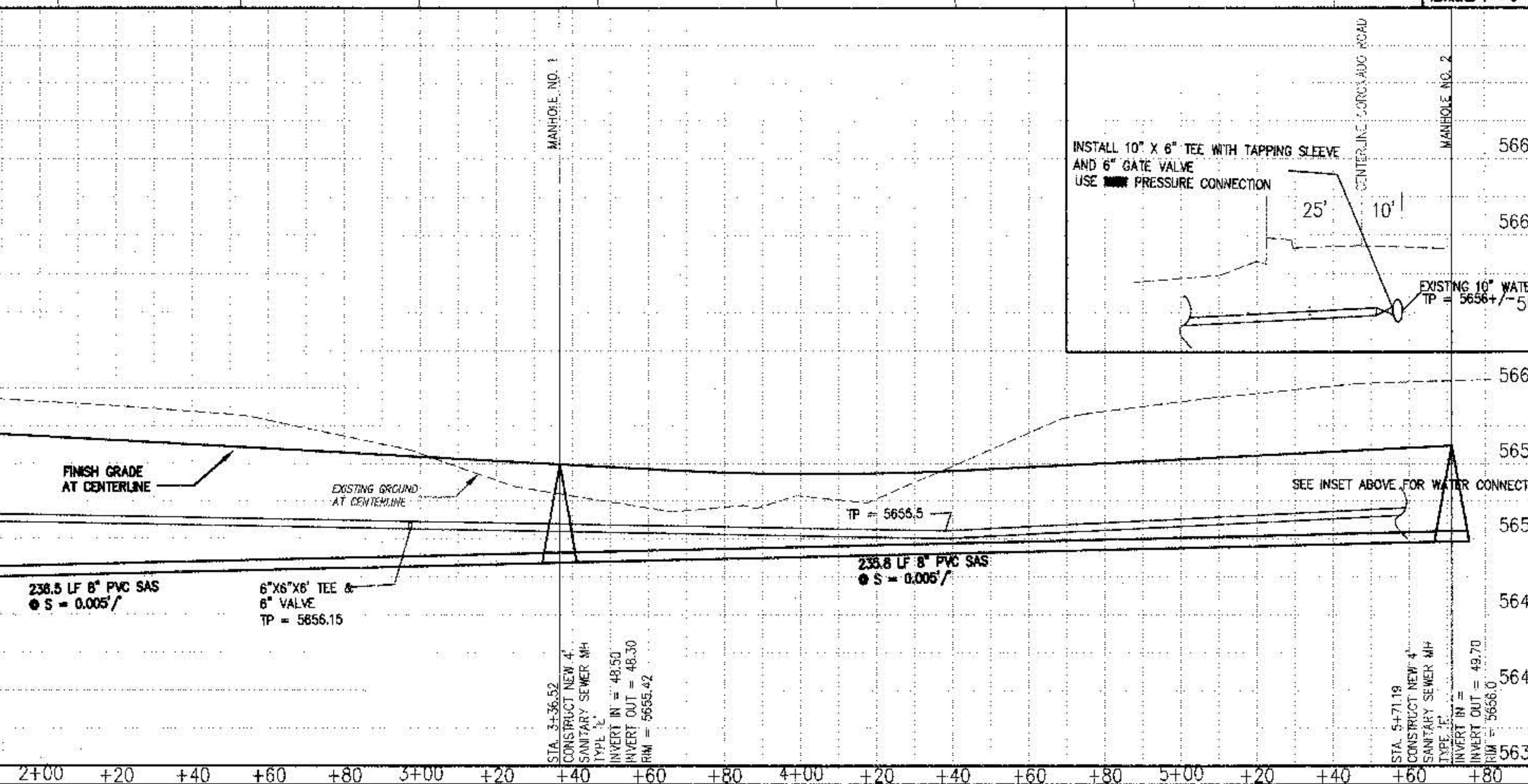
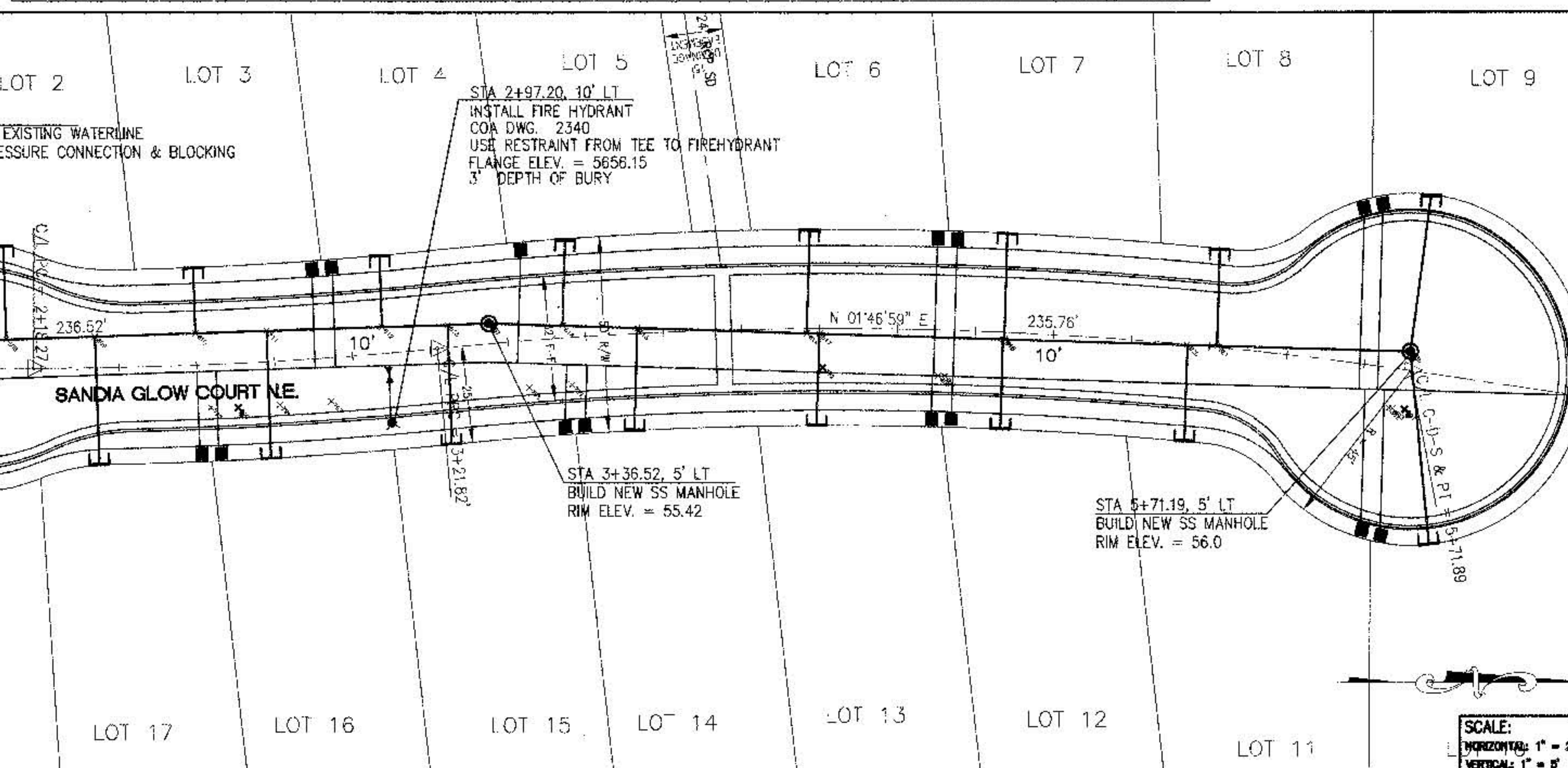


1. CURBS, GUTTERS & CUT-OFF WALL TO BE CONSTRUCTED OF P.C.C.
2. FOR STANDARD A/C MEDIUM C. & G. PROVIDE CONTRACTION JTS. B' 0" C.C. MAX. ALSO PROVIDE 1/2" EXP. JTS. 48" O.C. MAX. AT CURB RETURNS & AT EACH SIDE OF DRIVEWAY.
3. FOR ALL OTHER C. & G. PROVIDE CONTR. JTS. AT 10' O.C. PROVIDE EXP. JTS. 50" O.C. & ADJACENT TO BUILDINGS & WALLS.
4. EDGES NOT SPECIF. DIMENSIONED SHALL BE EDGED WITH A 3/8" EDGING TOOL.
5. STD. C. & G. SHALL BE USED FOR NEW CONSTR. UNLESS OTHERWISE APPROVED BY THE ENGINEER.
6. REMOVE & REPLACE 12" WIDE STRIP OF PAVEMENT BEYOND 12" OF GUTTER WHEN CONSTRUCTING C. & G. ADJACENT TO EXIST. P.C.C. PAVEMENT.
7. STD. C. & G. REQUIRE FULL FORM ON ALL FACES EXCEPT WITH PRIOR APPROVAL OF ENGINEER.

- A. REG. CONC. CHANNEL LINING, OR CUT-OFF WALL.
PROVIDE 1/2" EXP. JT. BETWEEN BACK OF CURB & CONC. LINING OR WALL.
- B. VARIABLE DEPRESS AS NEEDED.
- C. DRIVE NO.4 BARS 18" DEEP IN FLOES DRILLED 2' O.C. IN EXIST. PAVEMENT, SEAL WITH EPOXY.
- D. EXIST. A.C. OR P.C.C. PAVEMENT.
- E. THEORETICAL FACE OF CURB OR FLOWLINE.
- F. TRAFFIC SIDE.
- G. 3/4" RADIUS.
- H. 1 1/2" RADIUS.
- J. 2" RADIUS.
- K. 24" RADIUS.
- L. TACK COAT.
- M. DIMENSIONS AT ROUNDED CORNERS MEASURED TO INTERSECTION OF STRAIGHT LINES.
- N. 2" A.C. SURFACE COURSE 1500 LBS. STABILITY.
- P. 6" COMPACTED SUBGRADE 90% COMPACTION.

[illegible]

WATER & SANITARY SEWER SERVICES					WATER & SANITARY SEWER SERVICES				
LOT NUMBER	WL STATION & OFFSET	WL TYPE	SAS STATION & OFFSET	SAS LENGTH	INV. OF PIPE AT PLUG	LOT NUMBER	WL STATION & OFFSET	WL TYPE	SAS STATION & OFFSET
1	1+95.3 3.0' RT	DOUBLE	1+59.0 5.5' LT	26.5'	5647.70	10	5+68.8 6.0' RT	DOUBLE	5+71.2 5.0' LT
2		DOUBLE	2+11.2 7.4' LT	23.8'	5647.84	11		DOUBLE	5+14.3 0.1' RT
3	2+93.7 2.5' RT	DOUBLE	2+60.0 8.3' LT	16.7'	5648.11	12	4+52.4 11.9' RT	DOUBLE	4+84.0 1.8' RT
4		DOUBLE	3+09.2 6.9' LT	18.2'	5648.35	13		DOUBLE	4+20.0 1.3' RT
5	3+44.5 5.5' RT	SINGLE	3+84.2 3.1' LT	22.0'	5648.81	14	3+55.6 7.0' RT	DOUBLE	3+73.3 1.4' LT
6	4+50.8 11.8' RT	DOUBLE	4+16.7 1.2' RT	28.2'	5649.16	15		DOUBLE	3+25.1 5.8' LT
7		DOUBLE	4+67.4 1.8' RT	26.9'	5649.42	16	2+63.2 2.0' RT	DOUBLE	2+76.4 8.0' LT
8	5+57.8 8.5' RT	DOUBLE	5+21.9 0.4' LT	24.7'	5649.67	17		DOUBLE	2+34.0 8.1' LT
9		DOUBLE	5+71.2 5.0' LT	40.0'	5650.10	18	1+77.2 4.0' RT	DOUBLE	1+90.9 6.7' LT
						19		DOUBLE	1+57.4 5.5' LT



- LEGEND**
- PROPOSED MANHOLE
 - PROPOSED FIRE HYDRANT
 - PROPOSED GATE VALVE
 - PROPOSED CAP OR PLUG
 - PROPOSED SINGLE METER, WATER SERVICE LINE
 - PROPOSED DOUBLE METER, WATER SERVICE LINES
 - PROPOSED SANITARY SEWER SERVICE LINE
 - PROPOSED CROSS, TEE, OR ELBOW
 - EXISTING CURB & GUTTER
 - PROPOSED MOUNTABLE CURB & GUTTER
 - PROPOSED STANDARD CURB & GUTTER
 - CENTERLINE OF STREET
 - EXISTING MANHOLE

ENGINEER'S SEAL

[Signature]

REVISIONS

No.	Date	By	Remarks
1	XX-98	BE K. JOHANSEN	Design
2	XX-98	DEWALD MCCLURDY	Drawn By
3	XX-98	BE K. JOHANSEN	Checked By

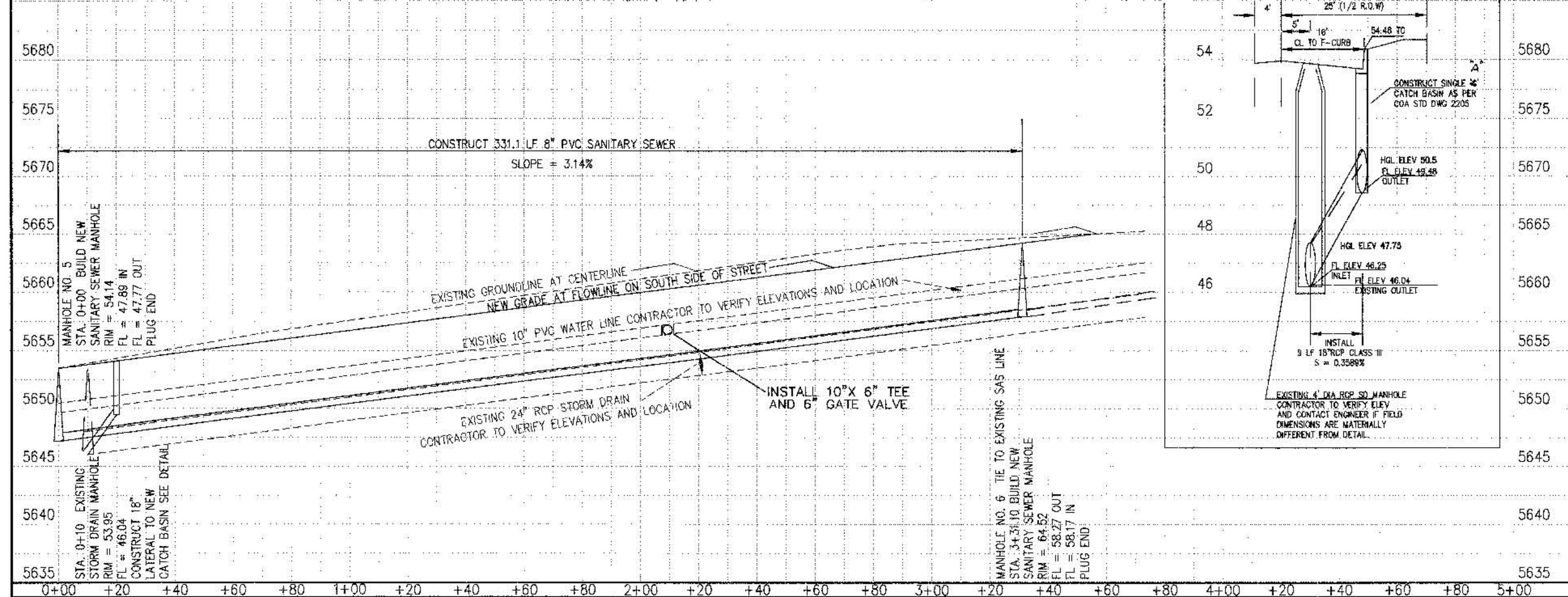
BOKAY CONSTRUCTION, INC.
ENGINEERING SERVICES - CONSTRUCTION MANAGEMENT
3908 AZUL CT. NW
ALBUQUERQUE, NM 87120
(505) 899-9656

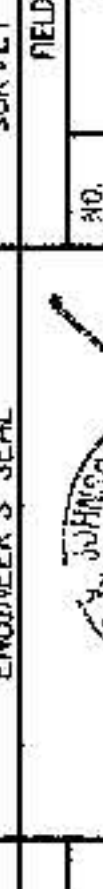
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: SANDIA GLOW
UTILITY PLAN AND PROFILE
SANDIA GLOW COURT

City Project No. 603181 Zone Map No. D-21-Z Sheet 10 of 13

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LOCAL DESIGN UPDATE



ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES		ELEVATIONS SHOWN ARE SLD 1929 DATUM		CONTRACTOR	
		BY	DATE	ELEVATIONS BASED ON CITY OF ALBUQUERQUE		STARTED BY	
No.	Date	BY	DATE	BENCHMARK "5-021"		DATE	
Remarks				ELEVATION = 5950.56		DATE	
Revisors				LOCATED EAST OF HOLBROOK STREET		DATE	
Design				SOUTH OF PINE ARROYO		MICRO-FILM INFORMATION	
Designed By		Date XX-98				RECORDED BY	
Drawn By		Date XX-98				DATE	
Checked By		Date XX-98					
By R. K. JOHNSON		By R. K. JOHNSON					
By DONALD MCCURRY		By DONALD MCCURRY					
By R. K. JOHNSON		By R. K. JOHNSON					

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

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

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

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

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

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

5. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL 04 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 MUTCO 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 5A-4 OF THE MUTCD, LATEST EDITION.

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

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

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

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

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

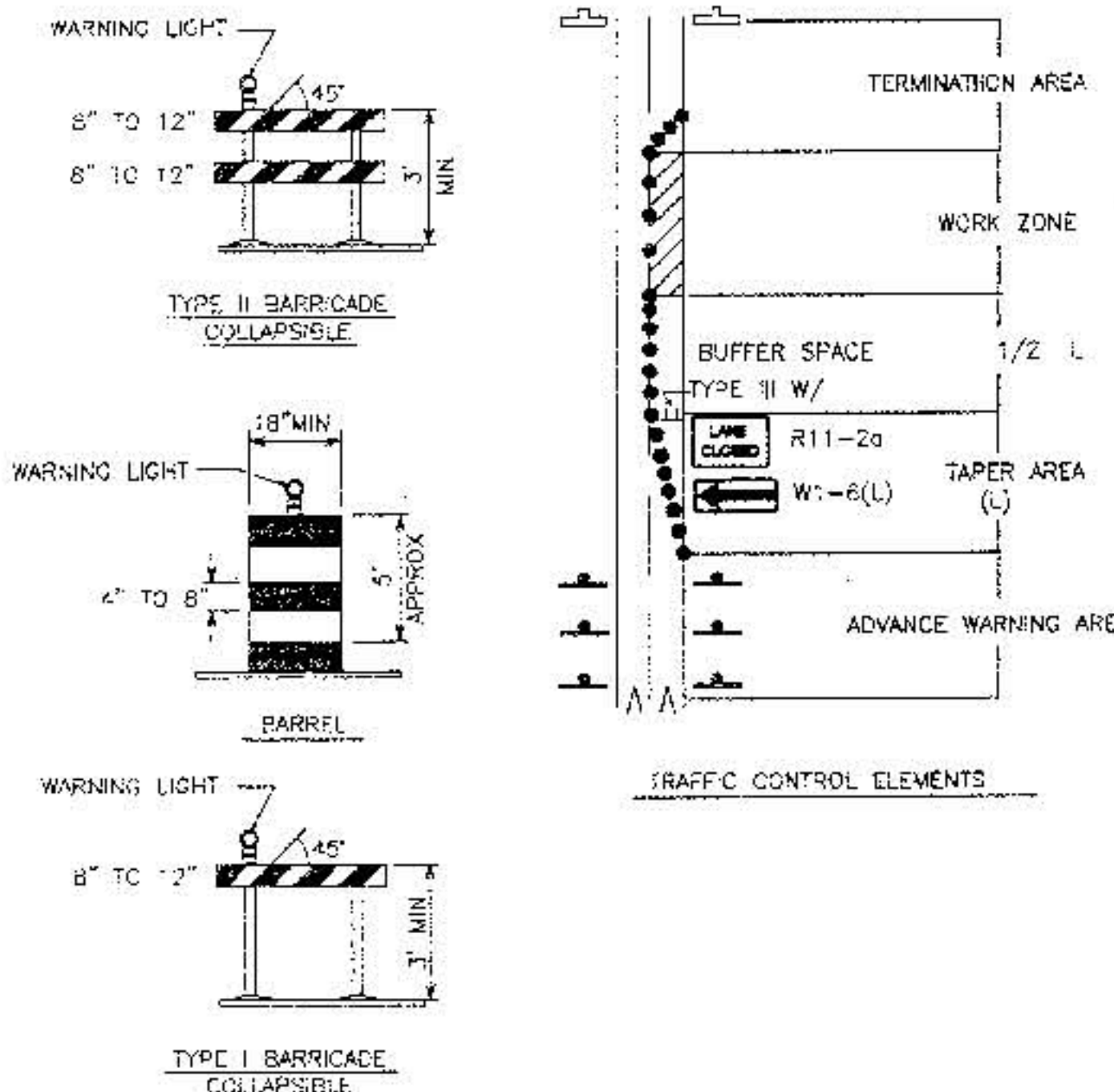
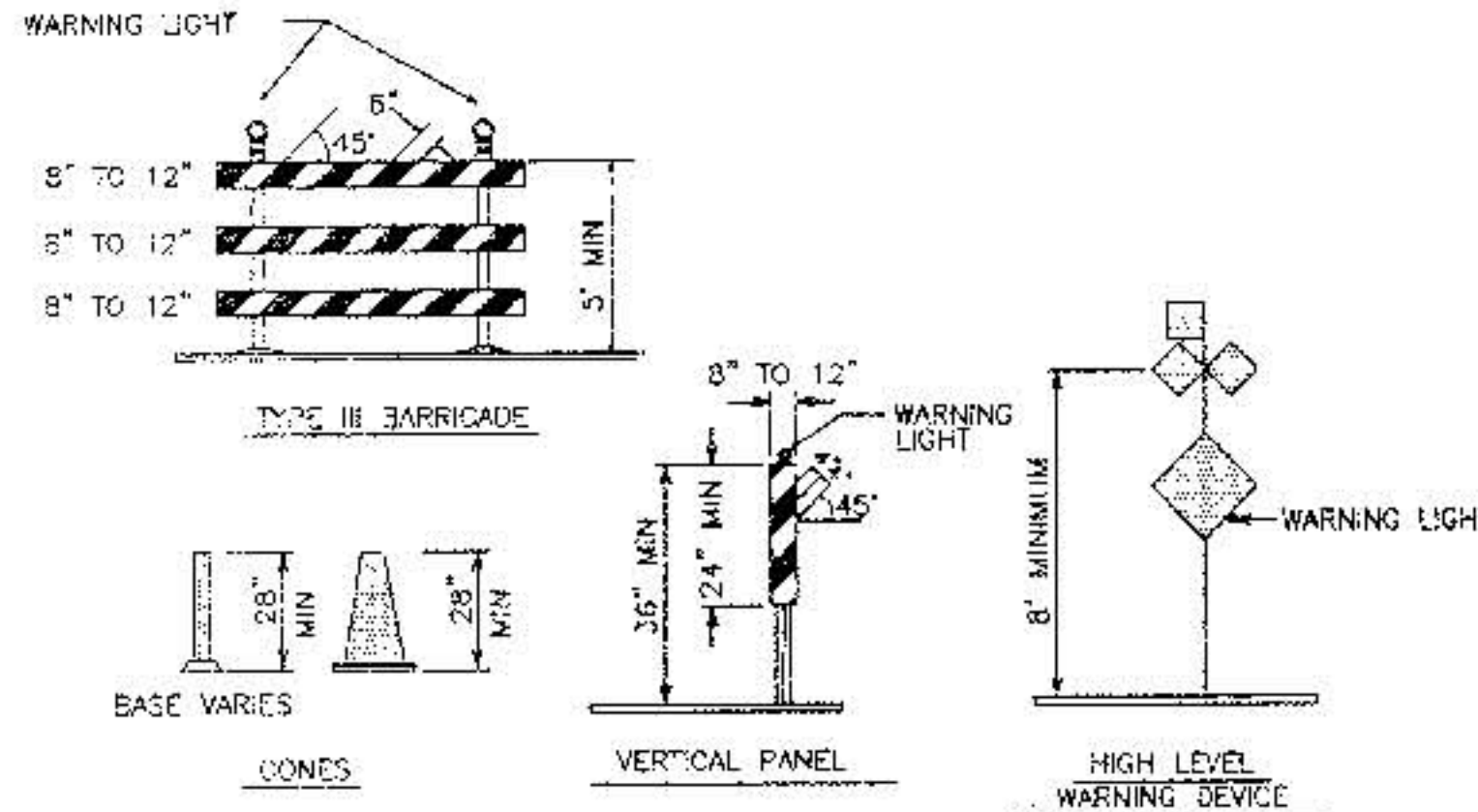
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

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

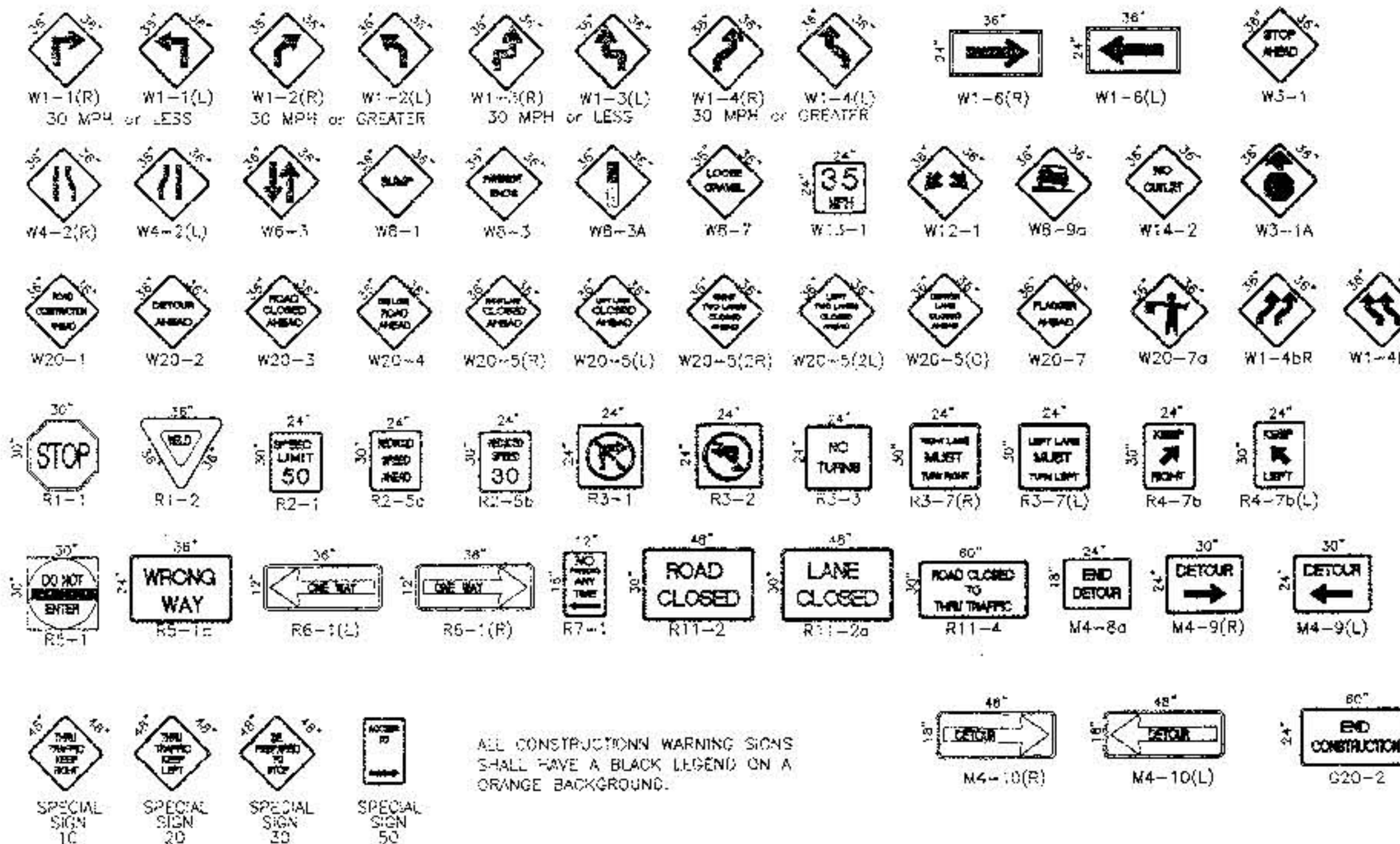
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 45" SIGN AS INDICATED IN THE M.U.T.O.D.

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



SIGN FACE DETAILS



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

LEGEND

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

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

TAPER REQUIREMENT

SPEED LIMIT (MPH)	TAPE LENGTH(1.) (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPE	MAXIMUM SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		ALONG TAPE	AFTER TAPE
20	70	75	80	5	23	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 MILES PER HOUR	MINIMUM DISTANCE IN FEET BETWEEN SIGNS	FROM LAST SIGN TO TAPE
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
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

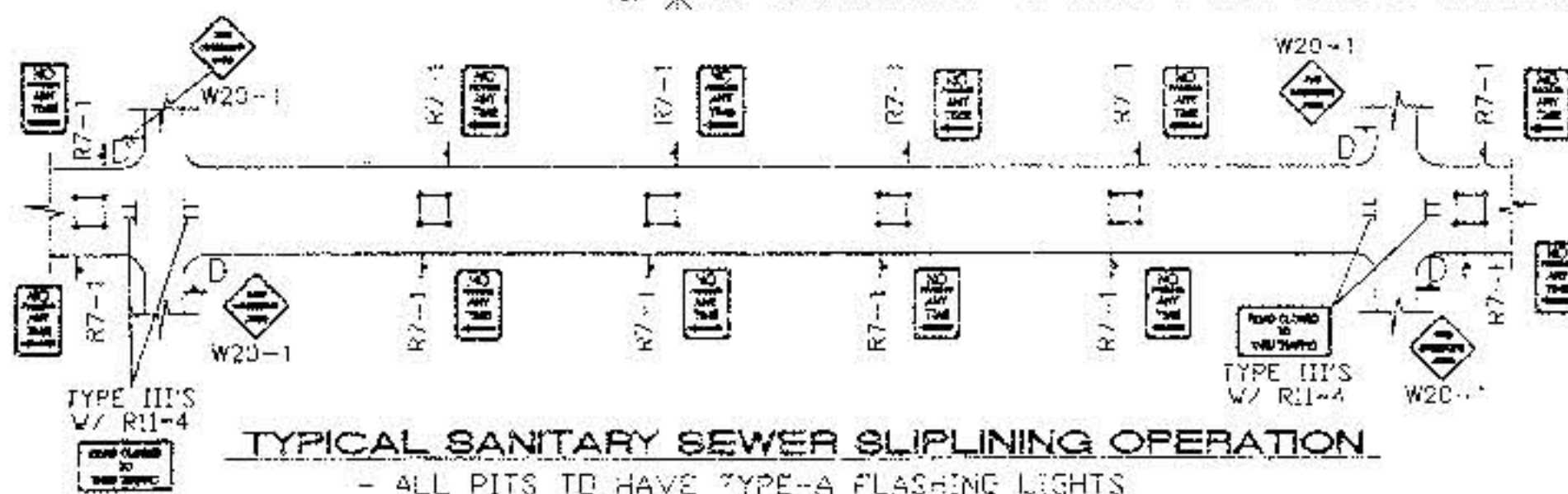
SPEED LIMIT

40 MPH OR LESS $L = \frac{WS^2}{60}$

40 MPH OR GREATER $L = W \times S$

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

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
SANDIA GLOW SUBDIVISION TRAFFIC CONTROL STANDARDS			
Design Review Committee	City Engineer Approval	Lead Design Update	Mo./Day/Yr.
City Project No. 603181	Zone Map No.	Sheet	Of 13



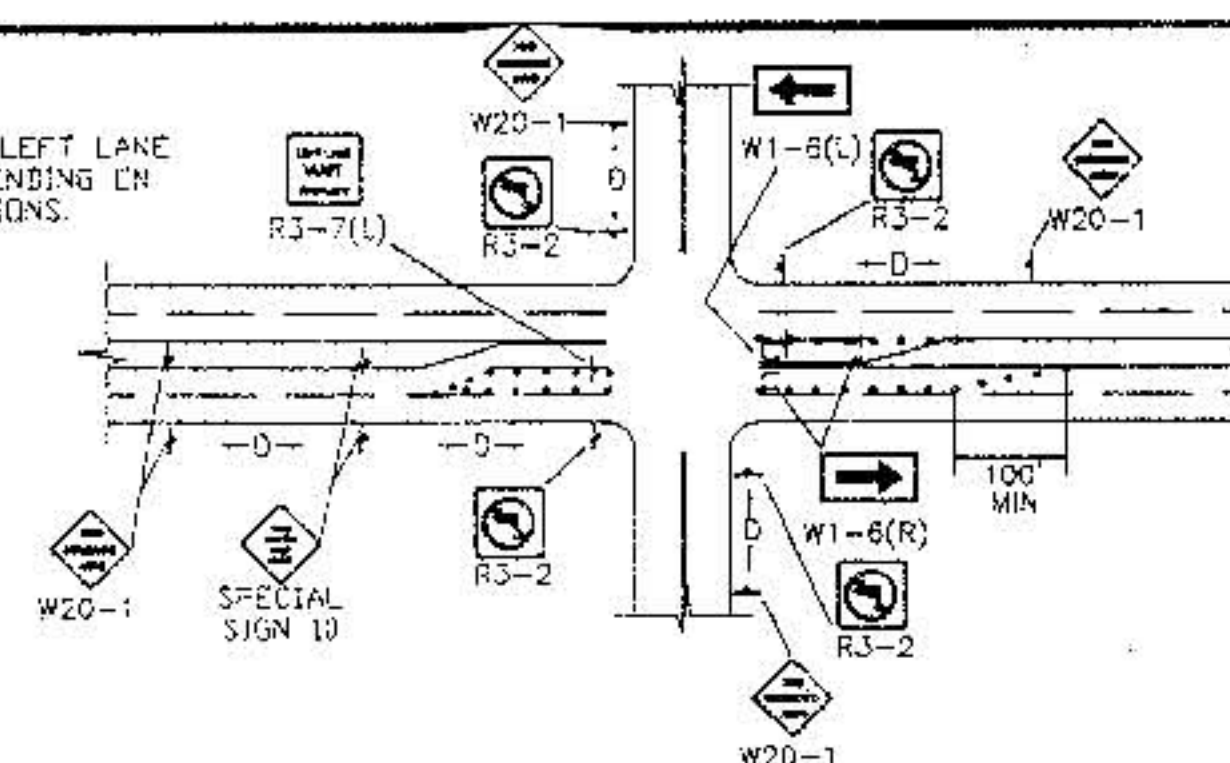
TYPICAL SANITARY SEWER SLIPLINING OPERATION

- TRAFFIC SPLIT NOTES:
1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCE SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
 2. 1/2 L IS THE MINIMUM DISTANCE FOR SHIFTING TAPERS.
 3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
 4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L OR REVERSE CURVE IS NOT SUFFICIENT. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
 5. REDUCED SPEED MAY BE CONSIDERED.
 6. USE $W_1 = 4$ FOR 30 MPH OR LESS, $W_1 = 4$ FOR SPEED 35 MPH OR GREATER.

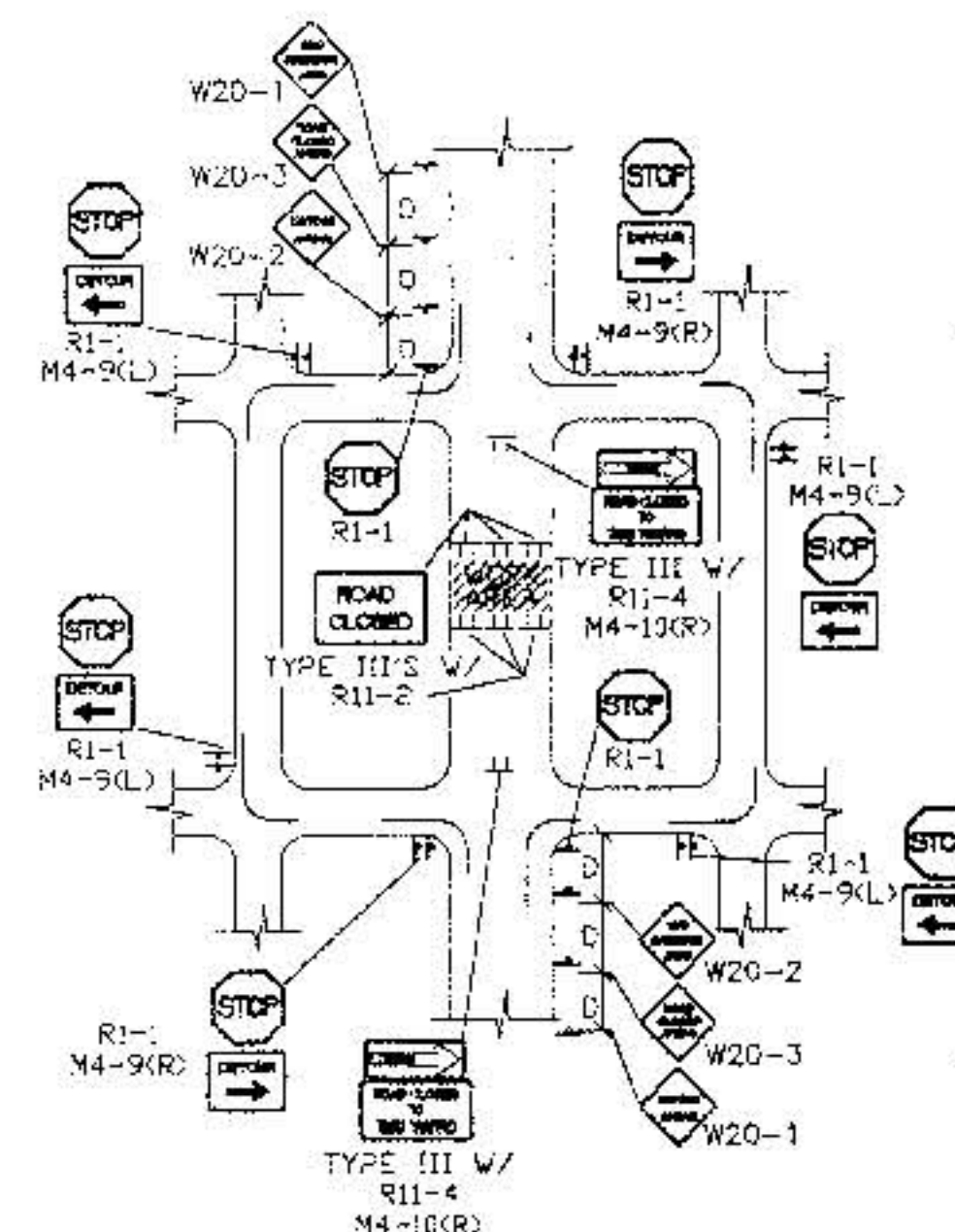
GENERAL NOTE:

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

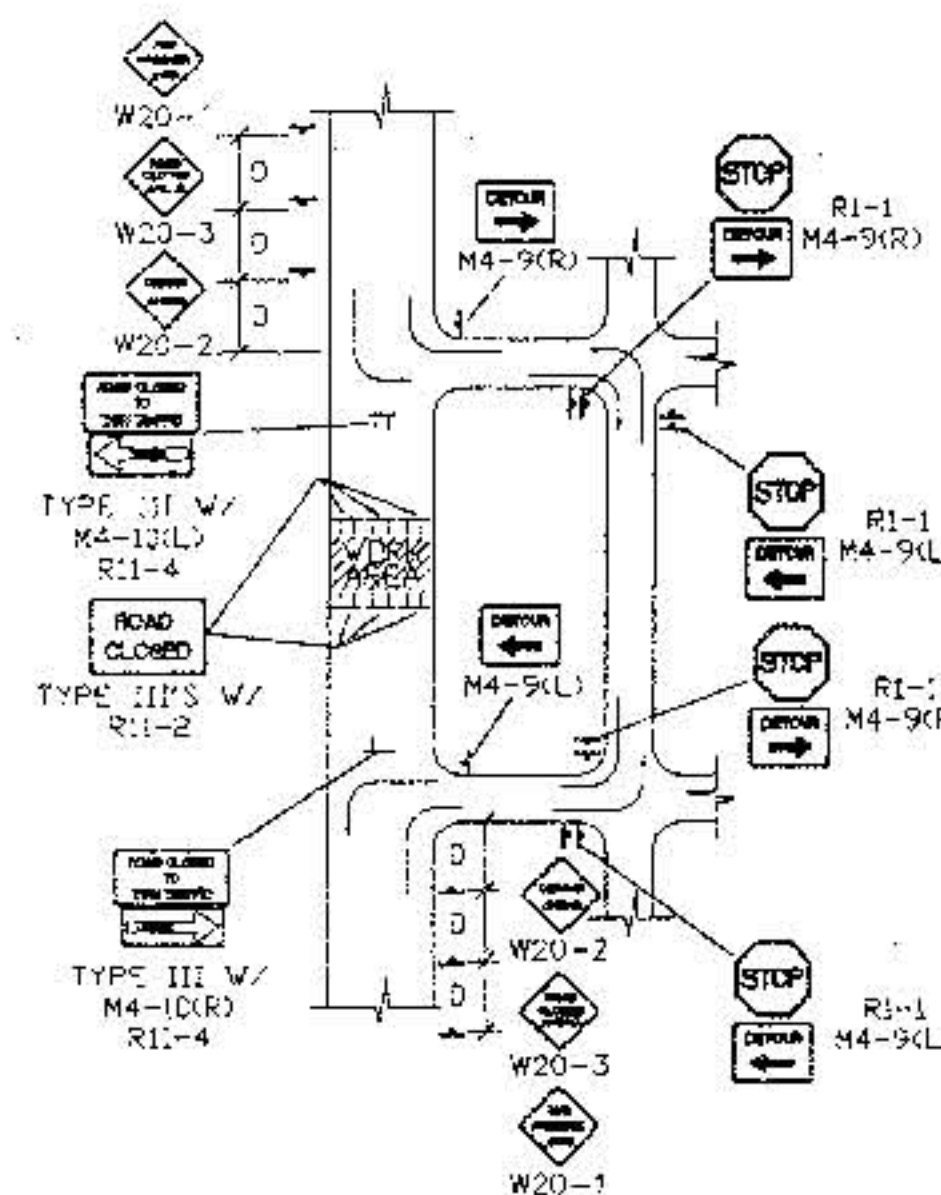
ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF 36" THIRTY SIX INCHES BY 36" THIRTY SIX INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.



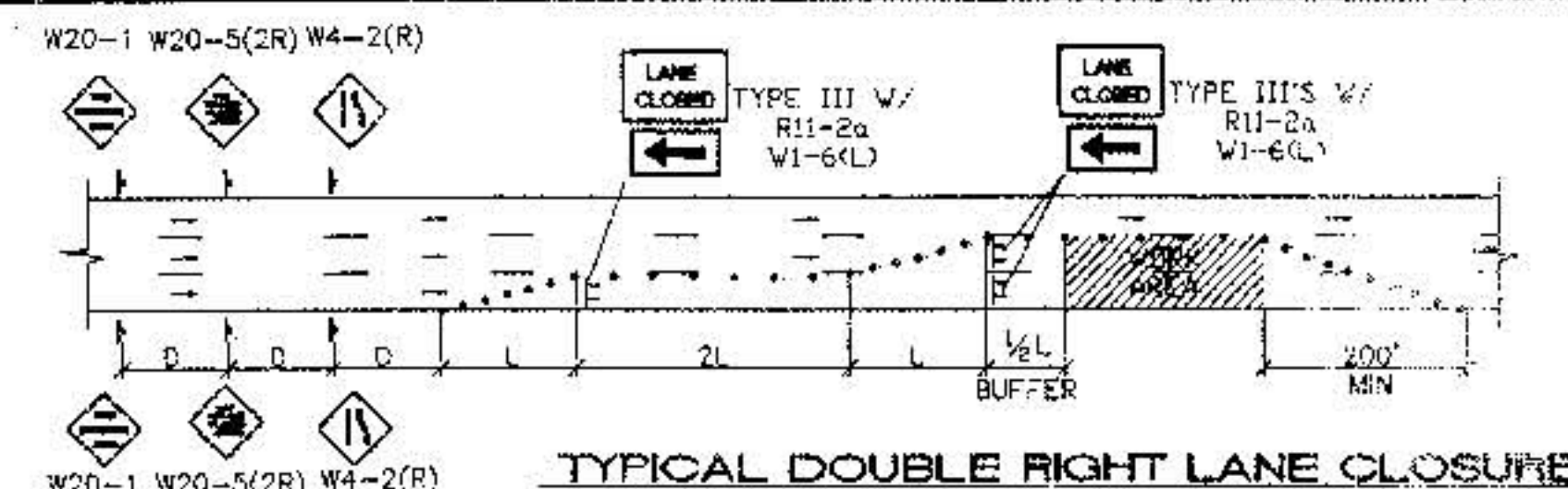
NOTE DEPENDING ON WORK ZONE LOCATION



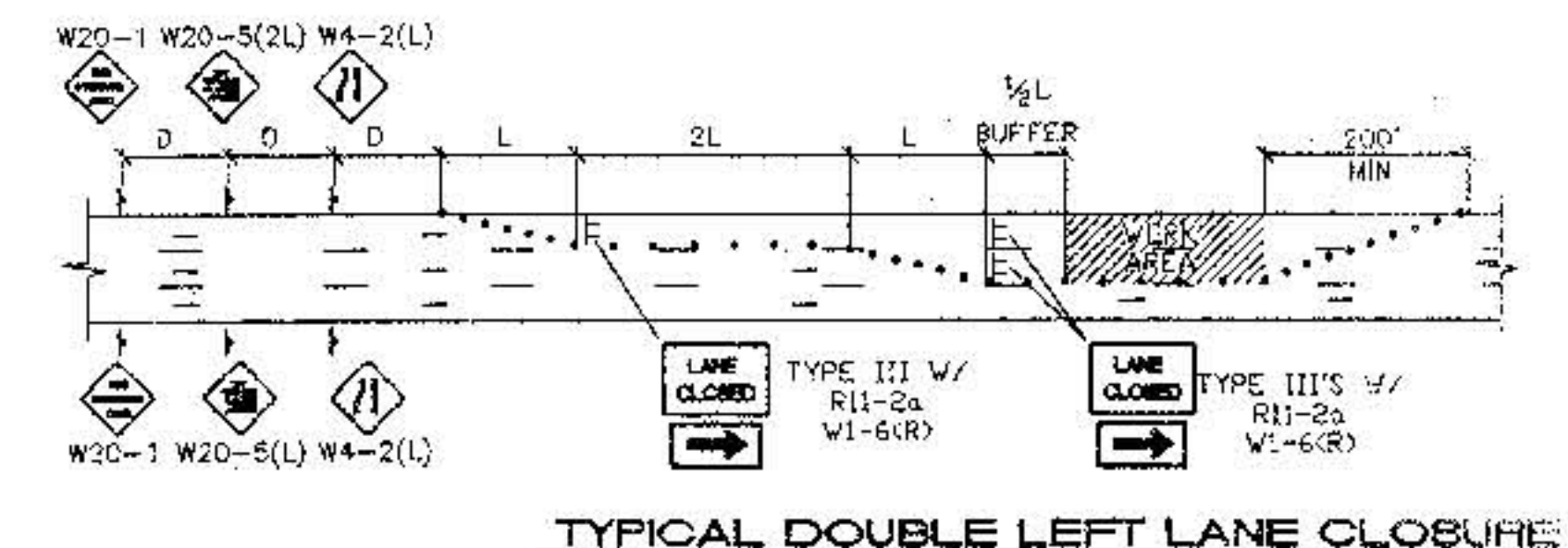
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



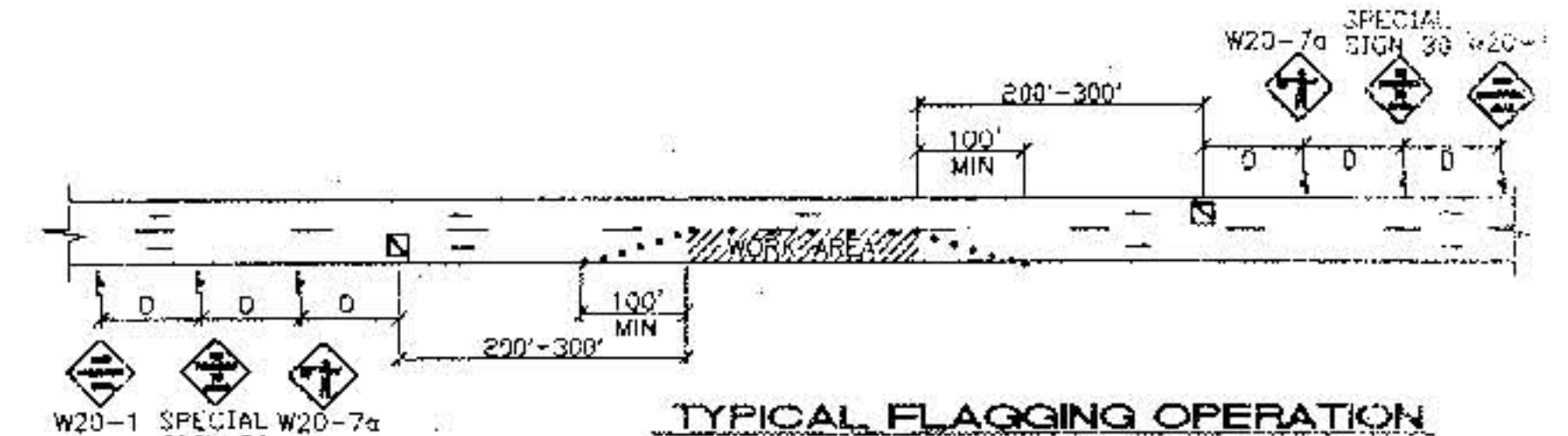
NOTE: (R1-D) BASED ON FIELD CONDITIONS



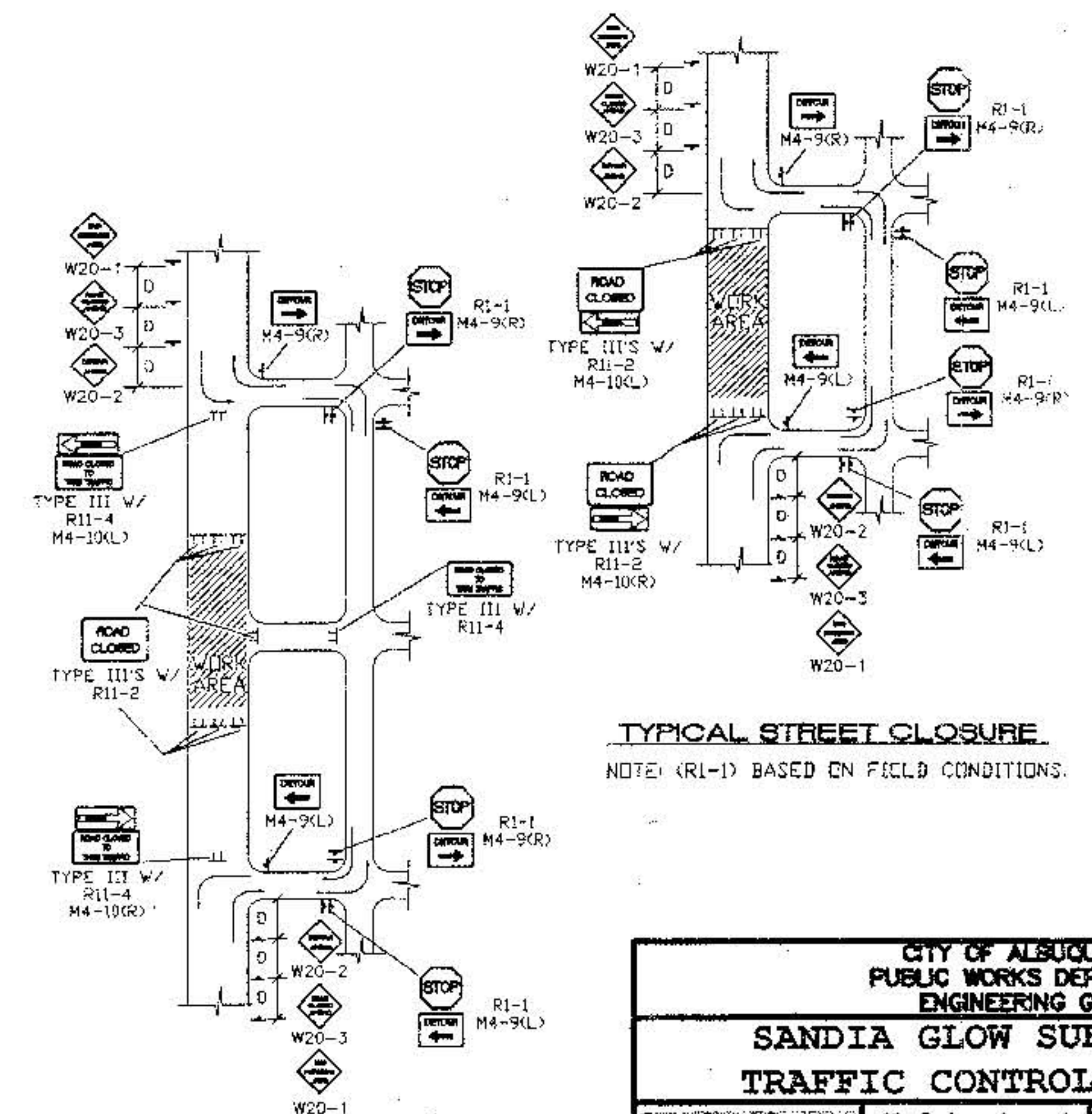
TYPICAL DOUBLE RIGHT LANE CLOSURE



TYPICAL DOUBLE LEFT LANE CLOSURE



TYPICAL FLAGGING OPERATION



NOTE: (RI-1) BASED ON FIELD CONDITIONS

TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS

BUREAU OF REVENUE DEPARTMENT OF THE TREASURY		DIVISION OF EXAMPLARS		ENGINEER'S SEAL		SURVEY INFORMATION FIELD NOTES		BENCH MARKS		AS-BUILT INFORMATION	
NO.	DATE	REMARKS	BY	NO.	DATE	CONTRACTOR	DATE	BANK	DATE	CLOSING TIME BY	DATE
											
REVISIONS											
DESIGNED BY _____ DATE _____											
DRAWN BY _____ DATE _____											
CHECKED BY _____ DATE _____											
APPROVED BY _____ DATE _____											
MICRO-FILM INFORMATION											
RECORDED BY _____ DATE _____											
MA _____											