

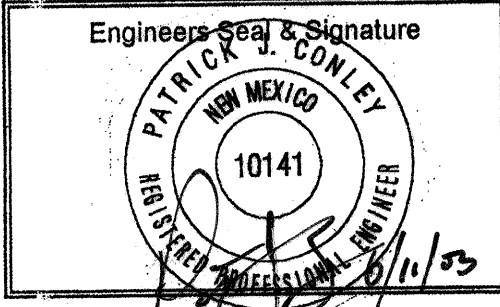
CONSTRUCTION PLANS FOR
RAINBOW BLVD. STREET IMPROVEMENTS
(A PORTION OF RAINBOW BLVD. FROM
LAS VENTANAS ROAD TO IRVING BLVD.)
ALBUQUERQUE, NEW MEXICO

INDEX

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7	UTILITY PLAN AND PROFILE SHEET RAINBOW BOULEVARD
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10	SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS
11	TYPICAL TRAFFIC CONTROL AND SIGNING EXAMPLES (REF. M.U.T.C.D.)
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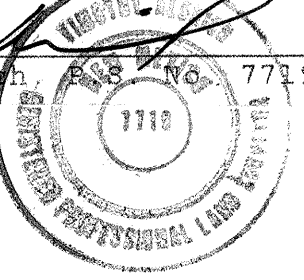
RECORD DRAWINGS

I, PATRICK J. CONLEY of the firm of SMITH ENG. CO.
A Registered Professional Engineer in the State of New Mexico, do hereby certify, to
the best of my knowledge and belief, that the infrastructure installed as part of this
project has been inspected by me or by a qualified person under my direct supervision
and has been constructed in accordance with the plans and specifications, while
someone from Smith Engineering Company was onsite, approved by the City Engineer
and that the original design intent of the approved plans has been met, except as noted
by me on the as-built construction drawings. This Certification is based on site
inspections by me or personnel under my direction and survey information provided by
ALDRICH LAND SURVEYING (Surveyor Name) NMPS number 7719 (PS #).
TIM ALDRICH, LS

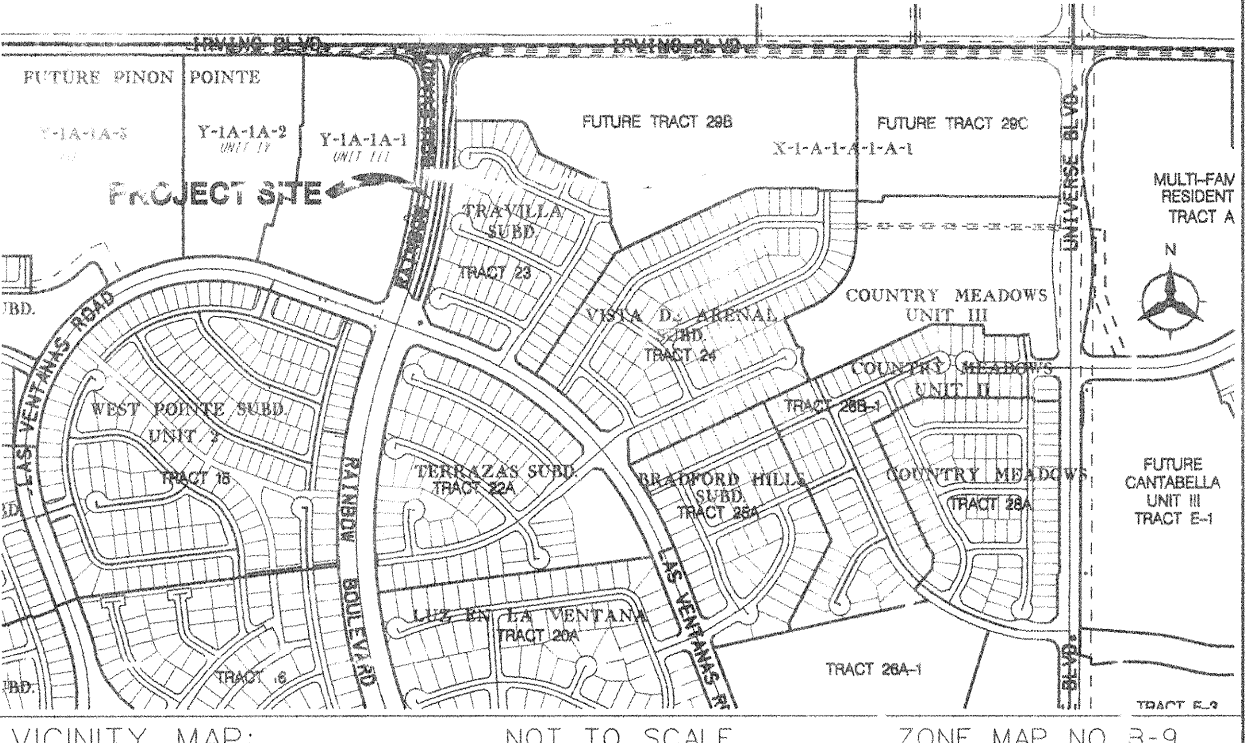


APPROVED AS RECORD DRAWINGS
DESIGN DIVISION
CITY ENGINEER
DATE: 5/1/02

SURVEYOR'S CERTIFICATION
"I, Timothy Aldrich, a duly qualified Registered Professional Land
Surveyor under the laws of the State of New Mexico, do hereby
certify that the 'as-built' information shown on these drawings was
obtained from field construction and 'as-built' surveys performed
by me or under my supervision, that the 'as-built' information
shown on these drawings was added by me or under my supervision,
and that this 'as-built' information is true and correct to the
best of my knowledge and belief." Aldrich Land Surveying is not
responsible for any of the design concepts, calculations,
engineering, or input of the record drawings.
Timothy Aldrich 06-06-03
Date



Bohannon & Huston
Court yard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS



- NOTICE TO CONTRACTORS
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AND SHALL INCLUDE UPDATE 10.6.
 - TWO WORKING DAYS PRIOR TO ANY EXCAVATION THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (261-1990) FOR LOCATION OF EXISTING UTILITIES.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS SHOULD A CONFLICT EXIST. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
 - FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
 - ALL PERMANENT STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED W/ PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
 - CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE 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 ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
 - ANY WORK WITHIN AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
 - ALL UTILITY WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH NEW MEXICO UTILITIES, INC. SPECIFICATIONS FOR WATER AND WASTEWATER FACILITIES (MOST RECENT REVISIONS).
 - THE CONTRACTOR SHALL NOTIFY NEW MEXICO UTILITIES: (898-2661) THREE WORKING DAYS PRIOR TO BEGINNING THE CONSTRUCTION OF THE UTILITIES.
 - CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
 - FOR STORM DRAIN CONSTRUCTION, RCP PIPE JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.
- THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED
- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
 - ☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
 - ☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY 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, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
 - ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
 - ☒ THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS	ENGINEER	DATE	*****		
		DRC Chairman	<u>Timothy Aldrich</u>	<u>8-17-02</u>	APPROVED FOR CONSTRUCTION		
		Transportation	<u>Timothy Aldrich</u>	<u>6/17/02</u>			
		Water/Wastewater	<u>Timothy Aldrich</u>	<u>6/17/02</u>			
		Hydrology	<u>Timothy Aldrich</u>	<u>6-17-02</u>			
		CIP	<u>Timothy Aldrich</u>	<u>6-17-02</u>			
		Const. Mngmt.	<u>Timothy Aldrich</u>	<u>8-17-02</u>			
DRB Case Number		City Project No.	687281		Sheet	1	Of 12

RAINBOW BLVD. PLAT

JANUARY 1998

IRVING BLVD.

UNIVERSE BLVD.

PARADISE BLVD.

PASEO DEL NORTE

RAINBOW BLVD.

Y-1A-1A-3

Y-1A-1A-2

Y-1A-1A-1

Y-1A-1A-4

UNIT VI

UNIT V

UNIT III

FUTURE PINON

POINTE

PINON POINT II SUBD.

TRACT 11

WEST POINT SUBD

UNIT 2

TRACT 15

TRACT 16

TRACT 17

TRACT 18

TRACT 19A

TRACT 20A

TRACT 21A

TRACT 22A

TRACT 23

TRACT 24

TRACT 25A

TRACT 26A-1

TRACT 26B-1-A

TRACT 27A

TRACT 28A

TRACT 28B-1

TRACT 29A

TRACT 30A

TRACT 31A

TRACT 32A

TRACT 33A

TRACT 34A

TRACT 35A

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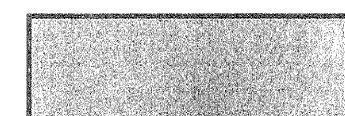
TRACT 280A

TRACT 281A

TRACT 282A

TRACT 283A

TRACT 2



NOT TO SCALE

ROAD / UTILITY
IMPROVEMENTS
THIS PROJECT[illegible]

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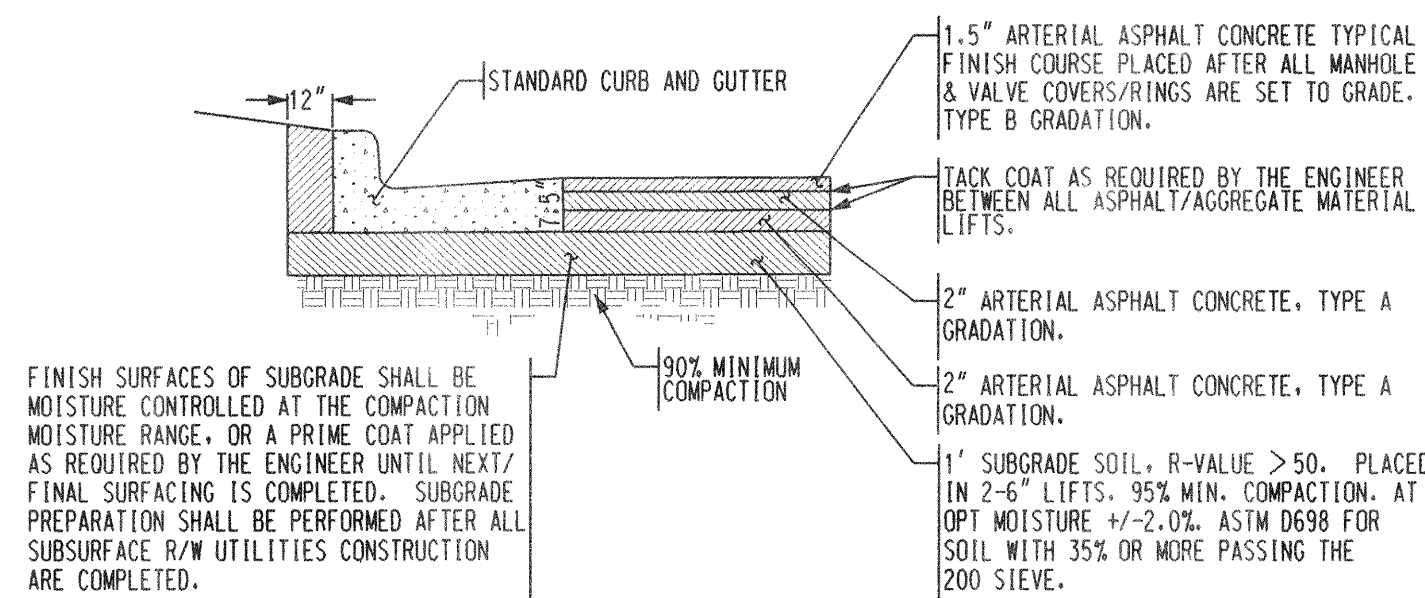
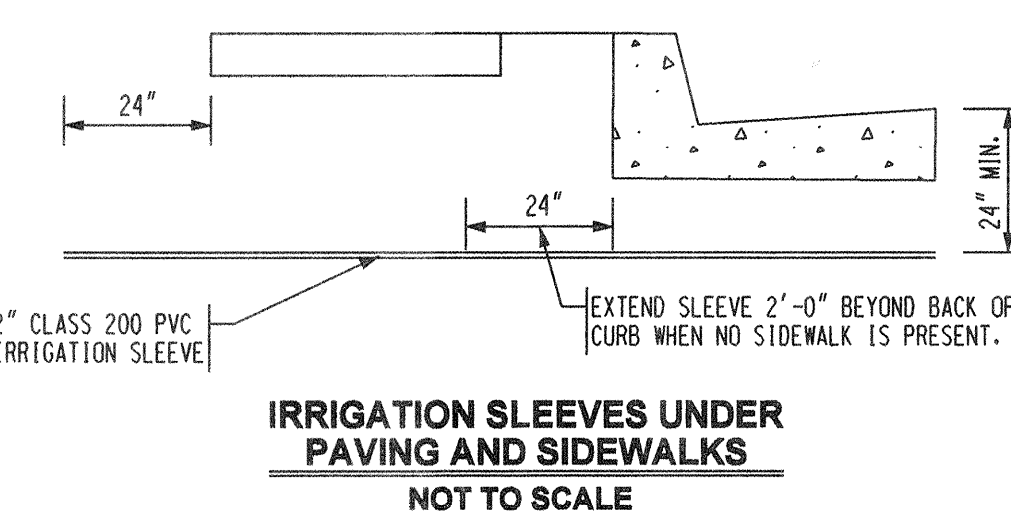
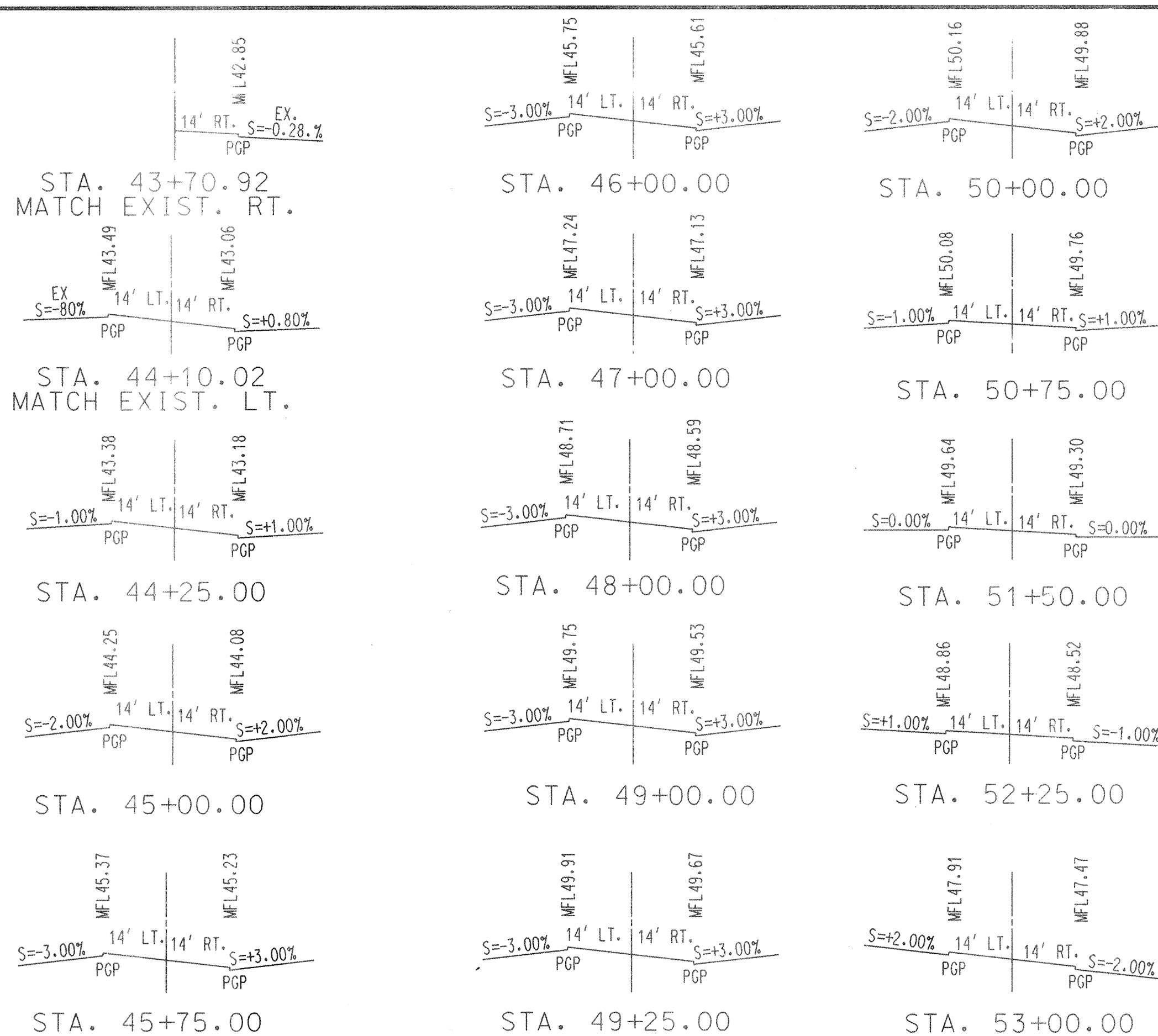
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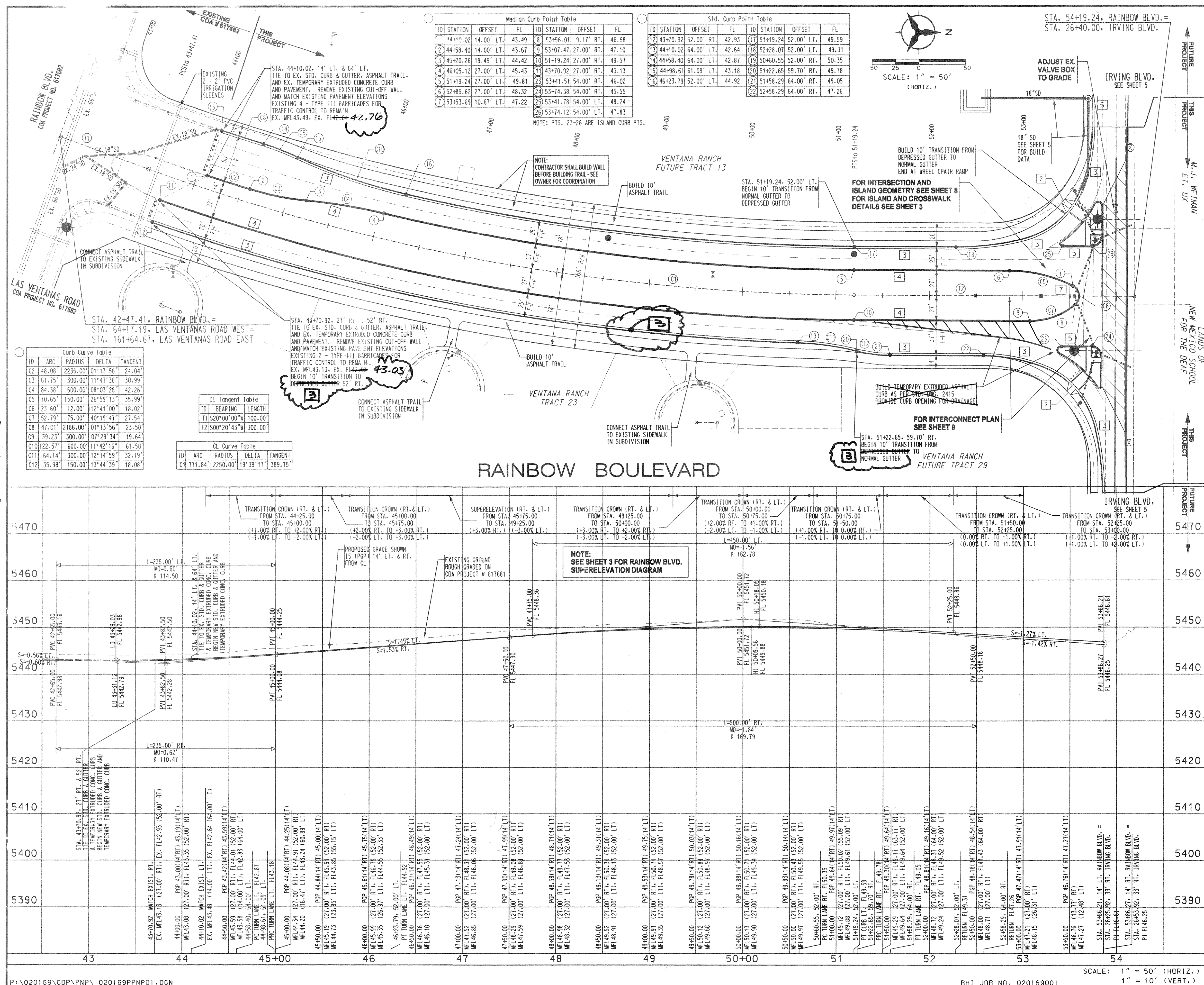
ZONE MAP NO.
B-9

SHEET 2 OF 12

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SCANNED BY
MESA REPRO



NOTES

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES, LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
- GRADE ELEVATIONS, WHERE NOTED, ARE ALONG FLOWLINE OF STANDARD CURB UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
- ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
- CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
- CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
- ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER), PAVEMENT, CONDUIT, LANDSCAPING, UTILITY LINES, ETC., DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
- WHEELCHAIR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.

KEYED GENERAL NOTES

- INSTALL WHEELCHAIR RAMP AS PER STD. DWG. 2441, CASE 1
- INSTALL WHEELCHAIR RAMP AS PER MODIFIED STD. DWG. 2441, CASE 1 WITH ALTERNATE SECTION AA AND AS PER DETAIL SHEET 3
- STD. CURB AND GUTTER AS PER STD. DWG. 2415 DEPRESS GUTTER WHERE SHOWN
- TEMPORARY EXTRUDED CONCRETE CURB AS PER STD. DWG. 2415
- MEDIAN CURB AND GUTTER AS PER STD. DWG. 2415
- FUTURE CURB AND GUTTER
- 10' BACK FROM FACE OF MEDIAN INSTALL 4" PORTLAND CEMENT PATTERNED CONCRETE SIDEWALK AS PER STD. DWG. 2408. NOSE TO BE PAINTED REFLECTIVE YELLOW SEE DETAIL SHEET 3

Bohannon & Huston
Courtyard One 7500 JEFFERSON NE ALBUQUERQUE NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

RAINBOW BLVD. STREET IMPROVEMENTS
PAVING PLAN & PROFILE
RAINBOW BOULEVARD

DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL

DESIGN REVIEW COMMITTEE CITY ENGINEER

LAST DESIGN UPDATE

CITY PROJECT NO. 687281

ZONE MAP NO. B-9

SHEET 4 OF 12

Tangent Table

ID	BEARING	LENGTH
T1	S89°47'00"W	2640.00'
T2	S89°47'00"E	2648.69'

STORM DRAIN FLOW TABLE

NUMBER	Q(cfs)	V(cfs)	DEPTH	LENGTH	SIZE	SLOPE
SD1	8.4	5.46	1.22'	114.62'	18"	0.65%
SD2	8.4	5.46	1.22'	94.52'	18"	0.65%

SD TANGENT TABLE

ID	BEARING	LENGTH
T1	S00°20'43"W	114.62'
T2	N89°47'00"W	81.47'
T3	N67°09'17"W	13.05'

SD DETAIL

INSTALL 1-SINGLE GRATE, DOUBLE WING TYPE "A" SD INLET AS PER COA STD. DWG. 2201

STA. 24+28.88, 50' RT. (IRVING BLVD)
BUILD 4" DIA. TYPE "E" SD MH

STA. 24+28.63, 164.62' RT. (IRVING BLVD)
END 18" SD INTO TEMPORARY POND
INV. 42.68

TEMPORARY POND

IRVING BOULEVARD

VENTANA RANCH FUTURE TRACT 13

VENTANA RANCH FUTURE TRACT 29

VENTANA RANCH TRACT X-1-A-1-A

LANDS OF NEW MEXICO SCHOOL FOR THE DEAF

M. J. WEIMAN ET. UX

ADJUST EX. VALVE BOXES TO GRADE

ADJUST EX. VALVE BOX TO GRADE

FOR INTERCONNECT PLAN SEE SHEET 9

FOR INTERSECTION AND ISLAND GEOMETRY SEE SHEET 8

FOR ISLAND AND CROSSWALK DETAILS SEE SHEET 3

TEMPORARY POND

TEMPORARY EXTRUDED CONCRETE CURB AS PER COA STD. DWG. 2415

EDGE OF FUTURE R/W

EX. 20' WATERLINE EASEMENT

EX. 43' PUBLIC ROADWAY DRAINAGE & UTILITY EASEMENT

PROPERTY LINE IS CENTERLINE OF IRVING BLVD.

EX. 20' TEMPORARY ACCESS EASEMENT FOR WELL SITE

STA. 24+92.59 TO 25+42.59 50' TRANSITION FROM FULL CROWN TO HALF CROWN

STA. 25+45.98, 8.00' RT. END MEDIAN CURB & GUTTER BEGIN TEMPORARY EXTRUDED CONCRETE CURB

STA. 26+40.00, IRVING BLVD. = STA. 54+19.24, RAINBOW BLVD.

STA. 27+19.98, 8.00' RT. END TEMPORARY EXTRUDED CONCRETE CURB BEGIN MEDIAN CURB & GUTTER

STA. 27+35.83 TO 27+85.83 50' TRANSITION FROM HALF CROWN TO FULL CROWN

STA. 28+49.55, 33.00' RT. & 8.00' RT. END STD. CURB & GUTTER, 8' ASPHALT TRAIL, MEDIAN CURB & GUTTER AND PAVEMENT BUILD CUT-OFF WALL AS PER COA STD. DWG. 2415

STA. 24+59.37, 45.00' RT. & 8.00' RT. BEGIN STD. CURB & GUTTER, & 8' ASPHALT TRAIL, MEDIAN CURB & GUTTER AND PAVEMENT BUILD CUT-OFF WALL AS PER COA STD. DWG. 2415

RAINBOW BLVD. SEE SHEET 4

VENTANA RANCH FUTURE TRACT 13

VENTANA RANCH FUTURE TRACT 29

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STA. 26+40.00, IRVING BLVD. = STA. 54+19.24, RAINBOW BLVD.

STA. 27+19.98, 8.00' RT. END TEMPORARY EXTRUDED CONCRETE CURB BEGIN MEDIAN CURB & GUTTER

STA. 27+35.83 TO 27+85.83 50' TRANSITION FROM HALF CROWN TO FULL CROWN

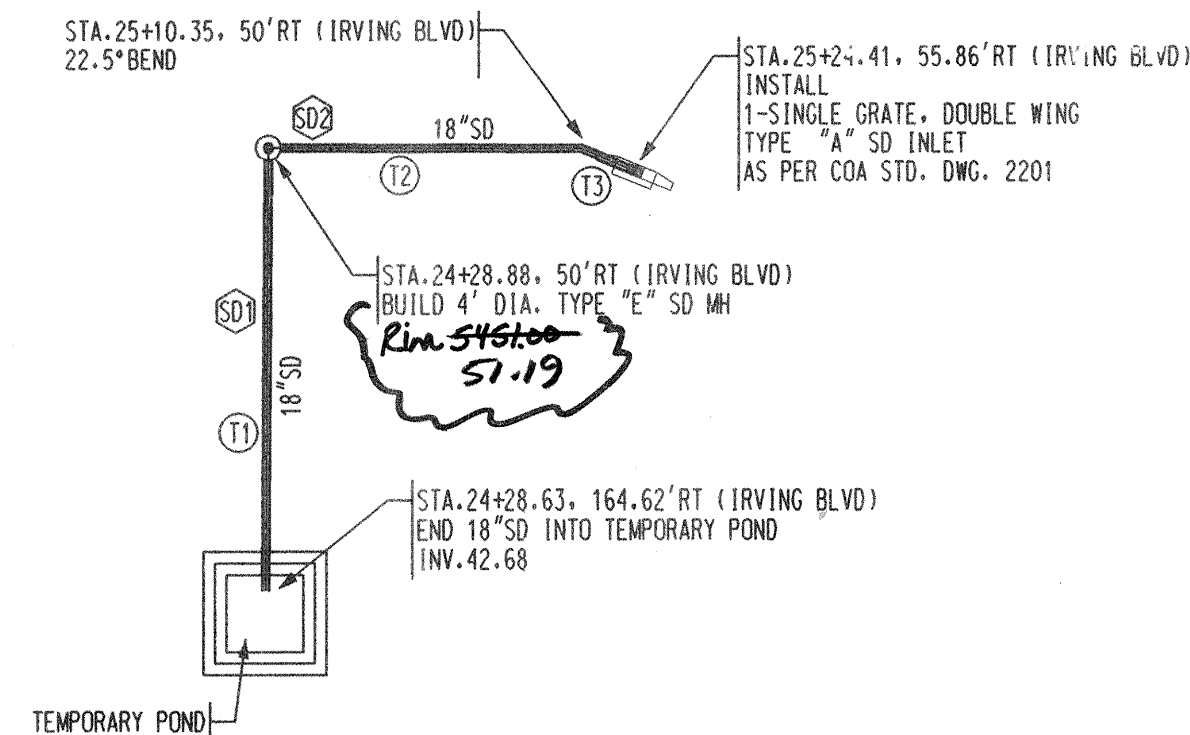
STA. 28+49.55, 33.00' RT. & 8.00' RT. END STD. CURB & GUTTER, 8' ASPHALT TRAIL, MEDIAN CURB & GUTTER AND PAVEMENT BUILD CUT-OFF WALL AS PER COA STD. DWG. 2415

STA. 24+59.37, 45.00' RT. & 8.00' RT. BEGIN STD. CURB & GUTTER, & 8' ASPHALT TRAIL, MEDIAN CURB & GUTTER AND PAVEMENT BUILD CUT-OFF WALL AS PER COA

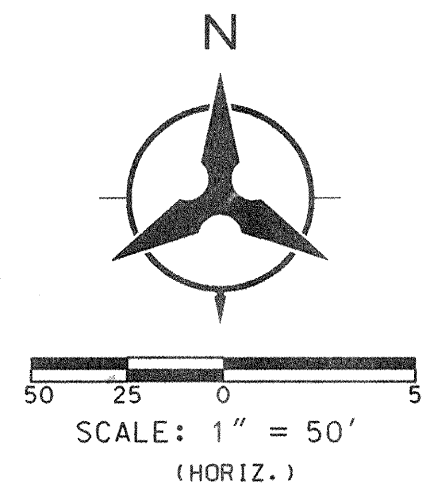
ID	BEARING	LENGTH
T1	S89°47'00"E	2640.00'
T2	S89°47'00"E	2648.69'

NUMBER	Q(cfs)	V(cfs)	DEPTH	LENGTH	SIZE	SLOPE
SD1	8.4	5.46	1.22'	114.62'	18"	0.65%
SD2	8.4	5.46	1.22'	94.52'	18"	0.65%

ID	BEARING	LENGTH
T1	S00°20'43"W	114.62
T2	N89°47'00"W	81.47
T3	N67°09'17"W	13.05



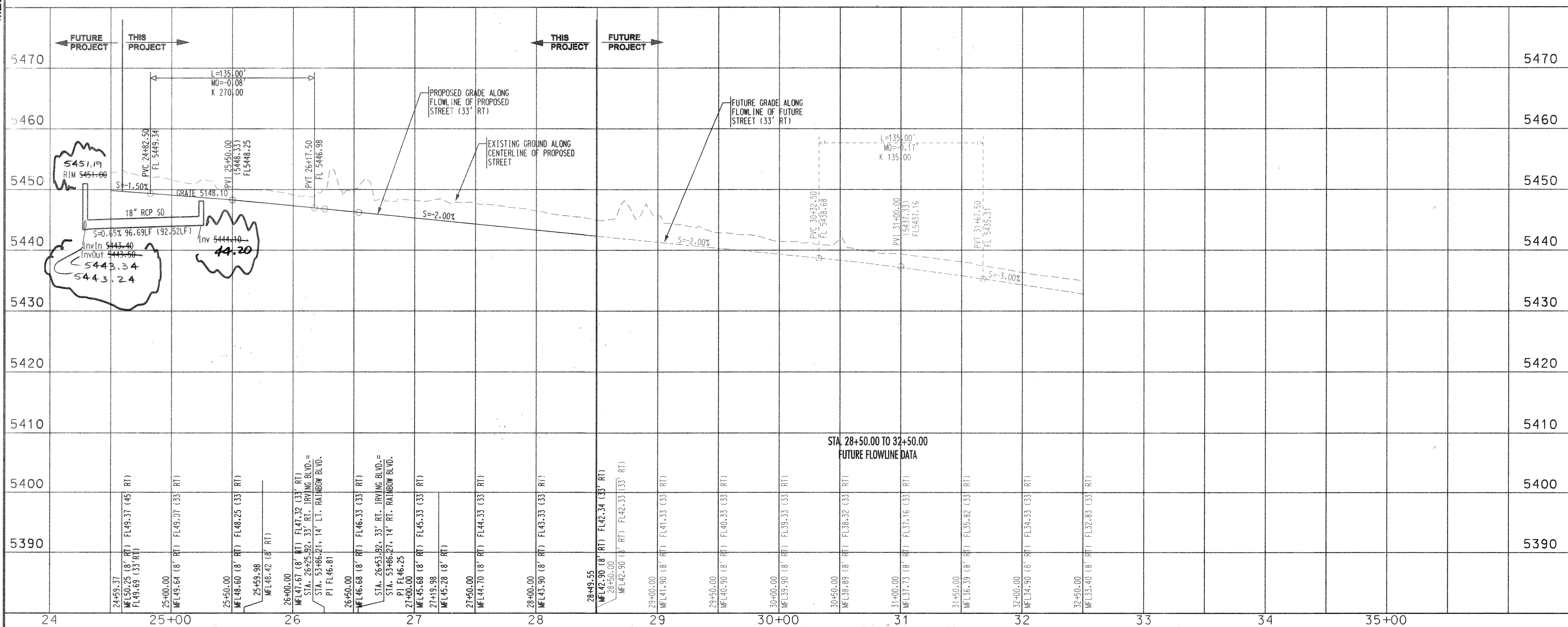
SD DETAIL



NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY CONDITIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
2. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
3. GRADE ELEVATIONS, WHERE NOTED, ARE ALONG FLOWLINE OF STANDARD CURB UNLESS OTHERWISE SPECIFIED.
4. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
5. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
6. CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
7. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
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9. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.

IRVING BOULEVARD



KEYED GENERAL NOTES

- 1 INSTALL WHEELCHAIR RAMP AS
PER STD. DWG. 2441. CASE 1
- 2 INSTALL WHEELCHAIR RAMP AS
PER MODIFIED STD. DWG. 2441.
CASE 1 WITH ALTERNATE SECTION
AA AND AS PER DETAIL SHEET 3
- 3 STD. CURB AND GUTTER
AS PER STD. DWG. 2415
DEPRESS GUTTER WHERE SHOWN
- 4 TEMPORARY EXTRUDED CONCRETE
CURB AS PER STD. DWG. 2415
- 5 MEDIAN CURB AND GUTTER
AS PER STD. DWG. 2415
- 6 FUTURE CURB AND GUTTER
- 7 10' BACK FROM FACE OF MEDIAN
INSTALL 4" PORTLAND CEMENT
PATTERNED CONCRETE SIDEWALK
AS PER STD. DWG. 2408. NOSE
TO BE PAINTED TO BE EFFECTIVE YELLOW
SEE DETAIL SHEET 3

Bohannon ▲ Huston

 Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

 CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

RAINBOW BLVD. STREET IMPROVEMENTS
PAVING PLAN & PROFILE
IRVING BOULEVARD

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
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A	APPROVED	A	APPROVED	LAST DESIGN UPDATE		
	AUG 19 2002		SEP 17 2002			
	DESIGN REVIEW COMMITTEE		CITY ENGINEER			

CITY PROJECT NO.	687281	ZONE MAP NO.	B-9	SHEET	5	OF	12
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P:\020169\CDP\PNP\ 020169PPNP02.DGN

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24-MAY-2002
09:07

BHI JOB NO. 020169001

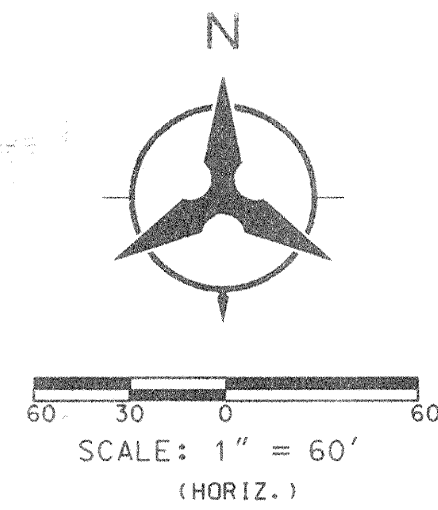
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1" = 10' (VERT.)

CITY PROJECT NO.

687281

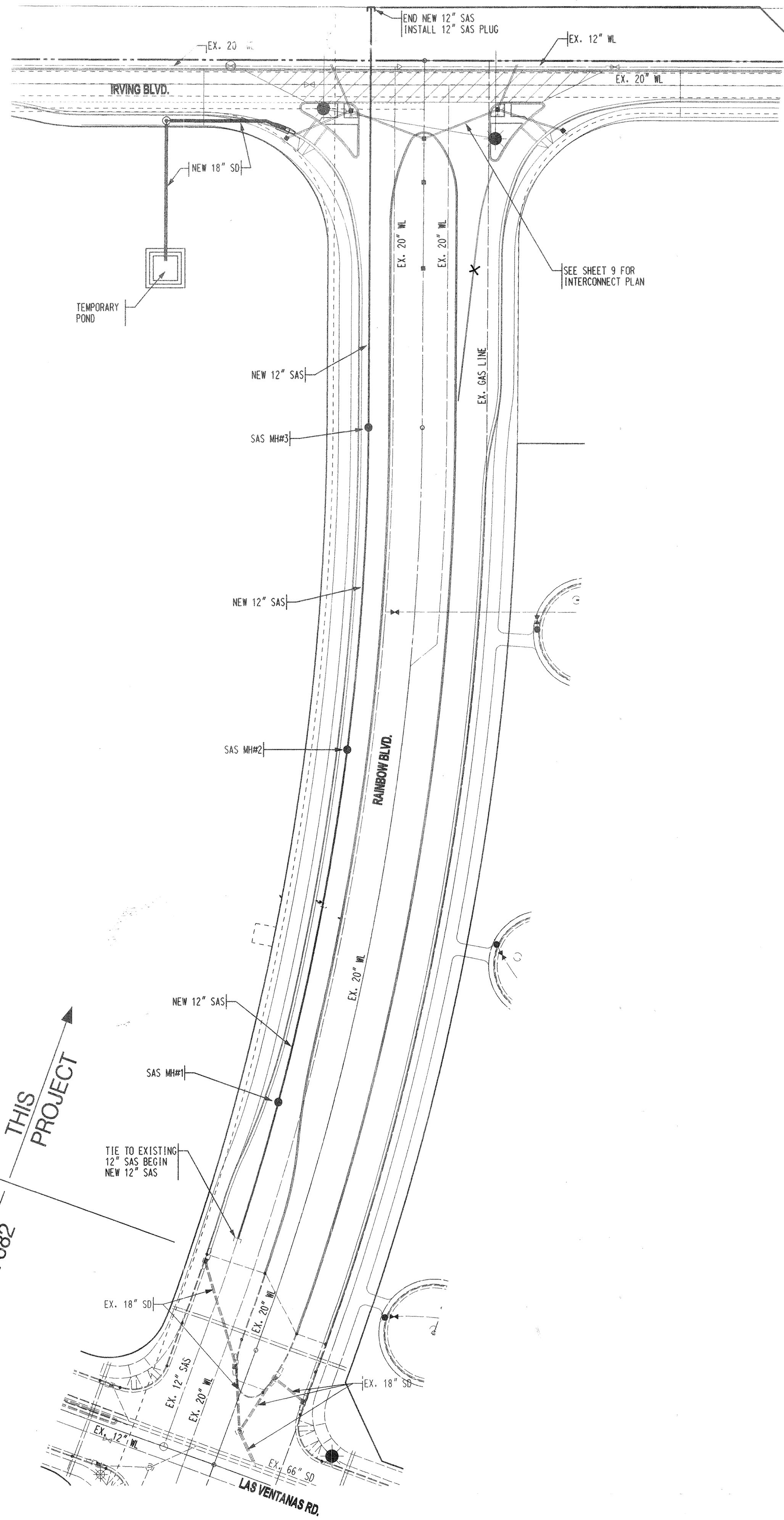
ZONE MAP NO.
B-9

SHEET 5 OF 12



EXISTING PROJECT
COA PROJECT #617682

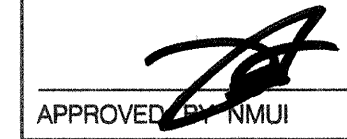
THIS
PROJECT



FUTURE
PROJECT

THIS
PROJECT

LEGEND	
PROPOSED SANITARY SEWER MANHOLE	●
EXISTING SANITARY SEWER MANHOLE	○
PROPOSED FIRE HYDRANT	⊙
EXISTING FIRE HYDRANT	⊙
PROPOSED GATE VALVE	⋈
EXISTING GATE VALVE	⋈
PROPOSED SANITARY SEWER LINE	— SAS —
EXISTING SANITARY SEWER LINE	- - - SAS - - -
PROPOSED WATER LINE	— W —
EXISTING WATER LINE	- - - W - - -
PROPOSED STORM DRAIN LINE	— SD —
EXISTING STORM DRAIN LINE	- - - SD - - -
PROPOSED STORM DRAIN INLET	⊕
PROPOSED STREET LIGHT	★


APPROVED BY NMUI

7-17-02
DATE

Bohannon & Huston
 Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

RAINBOW BLVD. STREET IMPROVEMENTS
OVERALL UTILITY PLAN

DESIGN REVIEW COMMITTEE
APPROVED
AUG 19 2002

CITY ENGINEER APPROVAL
APPROVED
SEP 17 2002
CITY ENGINEER

LAST DESIGN UPDATE

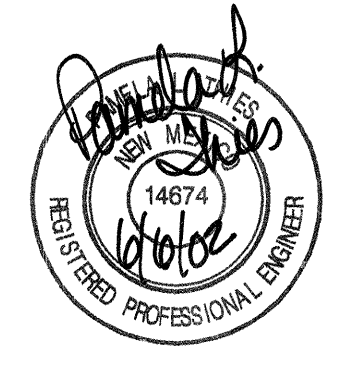
CITY PROJECT NO. 687281

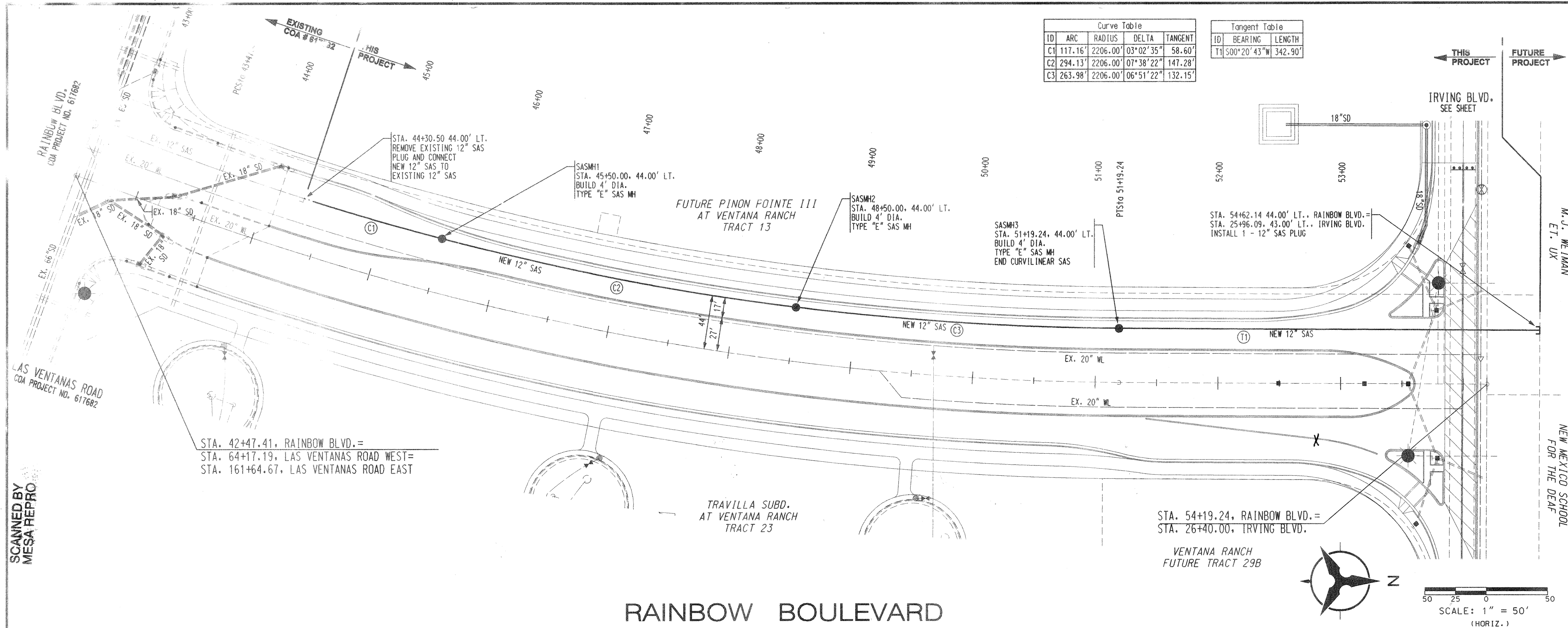
ZONE MAP NO. B-9

SHEET 6 OF 12

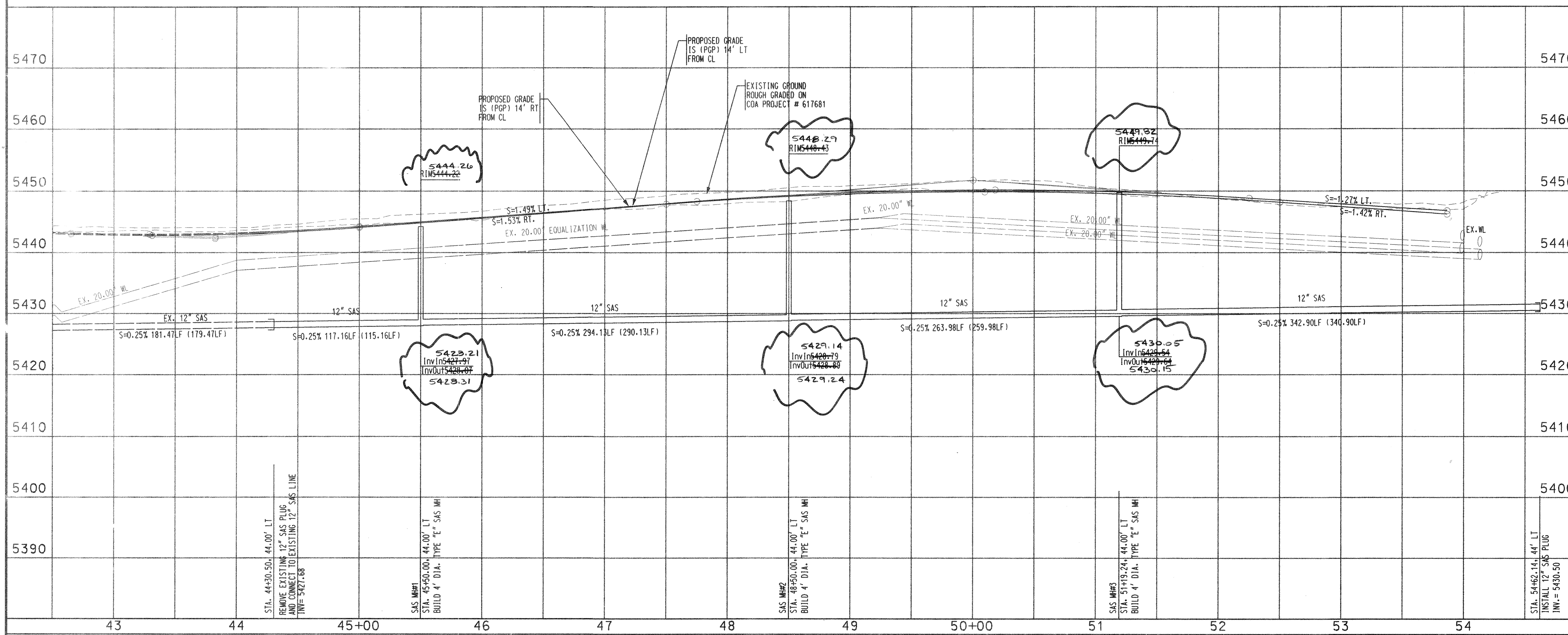
MO./DAY/YR.

MO./DAY/YR.

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
		NO.	BY	DATE	ACQ. BRASS TABLET STAMPED "1-B9 1980"	CONTRACTOR	DATE
REMARKS		1	BOHANNAN-HUSTON INC.	8/95	GEOGRAPHIC POSITION (NAD 1927)	INSPECTOR'S NAME	DATE
REVISIONS					N.M. STATE PLANE COORDINATES	FIELD VERIFICATION BY	DATE
DESIGN					(CENTRAL ZONE) X=355,077.00	CORRECTED BY	DATE
DESIGNED BY					Y=1,529,056.93	RECORDED BY	DATE
DRAWN BY					GROUND-TO-GRID FACTOR = .99966334	MICRO-FILM INFORMATION	
CHECKED BY					DELTA ALPHA -00'16'47"		
					N.SVD 1929 ELEVATION = 5450.51		



- NOTES
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ENGINEER'S SEAL

BOHANNAN & HUSTON

Courtesy One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

APPROVED 7-17-02

DATE

DESIGNED BY TS6/PLT

DRAWN BY BUG

CHECKED BY PLT

REVISIONS

DESIGN

NO. DATE

BY

REMARKS

CITY OF ALBUQUERQUE

PUBLIC WORKS DEPARTMENT

ENGINEERING DEVELOPMENT GROUP

RAINBOW BLVD. STREET IMPROVEMENTS

UTILITY PLAN & PROFILE

RAINBOW BOULEVARD

DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL

APPROVED AUG 19 2002

APPROVED SEP 17 2002

CITY ENGINEER

LAST DESIGN UPDATE

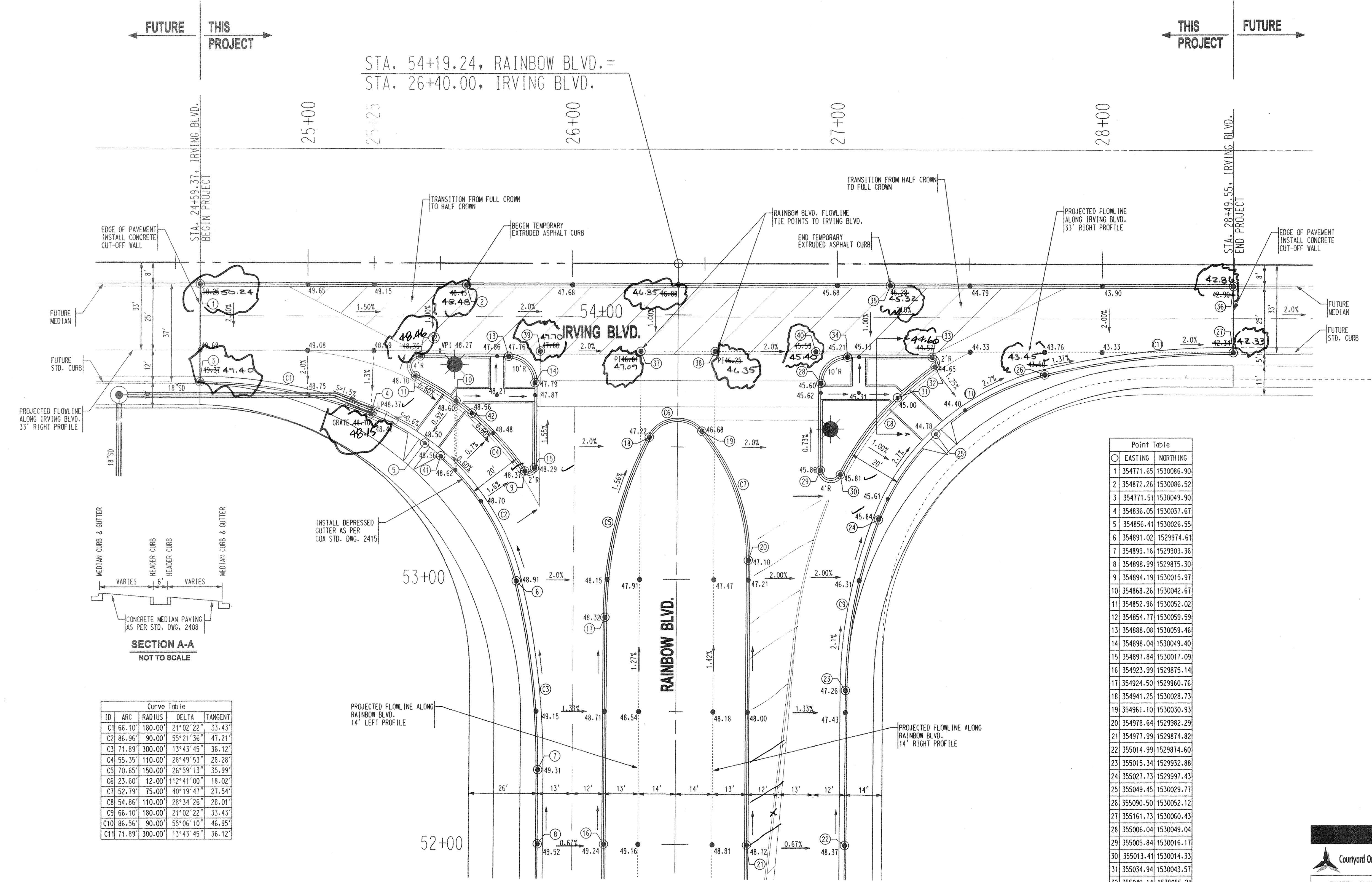
MO./DAY/YR.

MO./DAY/YR.

CITY PROJECT NO. 687281

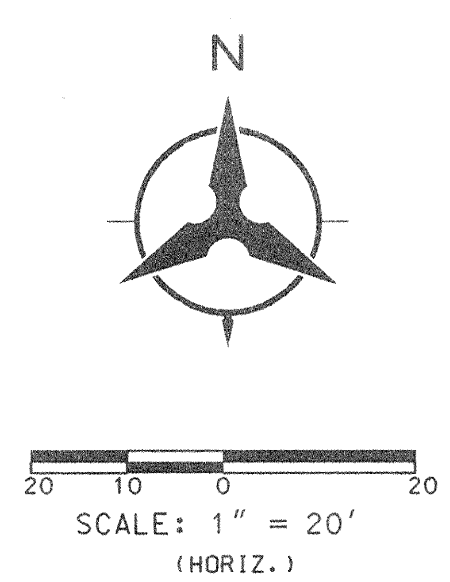
ZONE MAP NO. B-9

SHEET 7 OF 12



Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C1	66.10'	180.00'	21°02'22"	33.43'
C2	86.96'	90.00'	55°21'36"	47.21'
C3	71.89'	300.00'	13°43'45"	36.12'
C4	55.35'	110.00'	28°49'53"	28.28'
C5	70.65'	150.00'	26°59'13"	35.99'
C6	23.60'	12.00'	112°41'00"	18.02'
C7	52.79'	75.00'	40°19'47"	27.54'
C8	54.86'	110.00'	28°34'26"	28.01'
C9	66.10'	180.00'	21°02'22"	33.43'
C10	86.96'	90.00'	55°06'10"	46.95'
C11	71.89'	300.00'	13°43'45"	36.12'

Point Table		
NO.	EASTING	NORTHING
1	354771.65	1530086.90
2	354872.26	1530086.52
3	354771.51	1530049.90
4	354836.05	1530037.67
5	354856.41	1530026.55
6	354891.02	1529974.61
7	354899.16	1529903.36
8	354898.99	1529875.30
9	354894.19	1530015.97
10	354868.26	1530042.67
11	354852.96	1530052.02
12	354854.77	1530059.59
13	354888.08	1530059.46
14	354898.04	1530049.40
15	354897.84	1530017.09
16	354923.99	1529875.14
17	354924.50	1529960.76
18	354941.25	1530028.73
19	354961.10	1530030.93
20	354978.64	1529982.29
21	354977.99	1529874.82
22	355014.99	1529874.60
23	355015.34	1529932.88
24	355027.73	1529997.43
25	355049.45	1530029.77
26	355090.50	1530052.12
27	355161.73	1530060.43
28	355006.04	1530049.04
29	355005.84	1530016.17
30	355013.41	1530014.33
31	355034.94	1530043.57
32	355049.14	1530055.21
33	355048.01	1530058.86
34	355016.08	1530058.98
35	355032.26	1530085.92
36	355161.83	1530085.43
37	354938.11	1530061.27
38	354966.11	1530061.17
39	354900.11	1530061.42
40	355004.11	1530061.02
41	354862.43	1530021.77
42	354874.31	1530037.92



SECTION A-A
NOT TO SCALE

Bohannon & Huston
Courtesy One 7500 JEFFERSON NE ALBUQUERQUE NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

RAINBOW BLVD. STREET IMPROVEMENTS
CONTROL PLAN
RAINBOW BLVD./IRVING BLVD.

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED AUG 19 2002	APPROVED SEP 17 2002		
DESIGN REVIEW COMMITTEE	CITY ENGINEER	LAST DESIGN UPDATE	

CITY PROJECT NO. 687281 ZONE MAP NO. B-9 SHEET 8 OF 12

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
NO.	DATE	BY	DATE	ACS BRASS TABLE STAMPED 1-B9 1980	CONTRACTOR	STAMPED BY	DATE
1	8/95	BOHANNAN-HUSTON INC.	8/95	GEOGRAPHIC POSITION (NAD 1927)	Bohannon & Huston	STAMPED BY	DATE
				N.M. STATE PLANE COORDINATES		STAMPED BY	DATE
				(CENTRAL ZONE) X=355,077.00		STAMPED BY	DATE
				Y=1,529,056.93		STAMPED BY	DATE
				GROUND-TO-GRID FACTOR = .99966334		STAMPED BY	DATE
				DELTA ALPHA -00°16'47"		STAMPED BY	DATE
				NGVD 1929 ELEVATION = 5450.51		STAMPED BY	DATE

REMARKS
REVISIONS
DESIGN

DESIGNED BY TSG/PLT DATE 02/2002
DRAWN BY BUG DATE 02/2002
CHECKED BY PLT DATE 02/2002

SCANNED BY
MESA REPRO

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, IDENTICAL 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.

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

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.

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.

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.

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.

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

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

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.

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

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.

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

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.

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



	WORK AREA
•	BARRICADE - TYPE I, TYPE II, OR BARREL
⊥	BARRICADE - TYPE III
×	VERTICAL PANEL
	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

TAPER REQUIREMENT

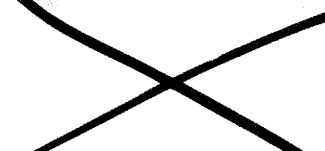
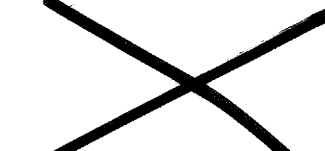
RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

TAPER CRITERIA

TAPER LENGTH COMPUTATION

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

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS	AS-BUILT INFORMATION	
J.D.L.	ADD NOTE NO. 27	FIELD NOTES			CONTRACTOR	DATE
☒	9/25/97	NO.	BY		Sundance	03
☒	9/24/97	J.D.L.			INSPECTOR'S SHARED BY	DATE
☒	9/24/97	J.D.L.			FIELD CHIEF BY	DATE
☒	9/24/97	J.D.L.			VERIFICATION BY	DATE
☒	9/24/97	BY			CORRECTED BY	DATE
					MICRO-FILM INFORMATION	
DESIGNED BY BOHANNAN HUSTON					RECORDED BY	DATE
DRAWN BY BOHANNAN HUSTON					NO.	
CHECKED BY BOHANNAN HUSTON						

 CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
RAINBOW BLVD. STREET IMPROVEMENTS TRAFFIC CONTROL			
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.
			MO./DAY/YR.
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
687281	B-9	10	12



- GENERAL NOTE:

TYPICAL SANITARY SEWER SLIPLINING OPERATION

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



NOTE: DEPENDING ON WORK ZONE LOCATION.



NOTE: (R1-1) BASED ON FIELD CONDITIONS



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

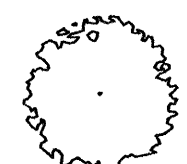
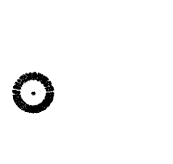
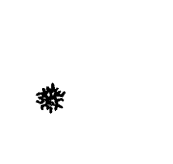
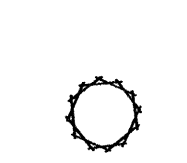
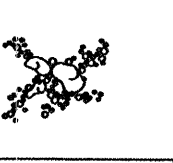
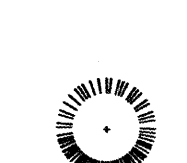
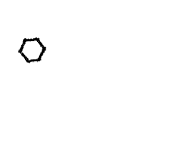
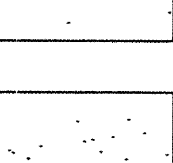
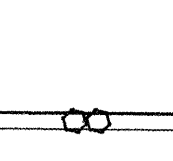


NOTE: (R1-1) BASED ON FIELD CONDITIONS.



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

PLANT LEGEND

	AMERICAN SYCAMORE (H) Platanus wrightii 2 1/2 - 3" Cal	10		MUGHO PINE Pinus mugho 7 gal	4		COTONEASTER CL (M) Cotoneaster buxifolius 5 gal	44
	PAGODA TREE (M) Koiwreuteria paniculata 2" Cal	8		PALM YUCCA (L)	14		MAIDEN GRASS (L) Miscanthus sinensis 5 gal	58
	DESERT WILLOW (L) Chilopsis linearis 15 GAL	19		BLUE MIST (M) Caryopteris x clandonensis 5 gal	57		WILDFLOWER 1 gal	78
	AUSTRIAN PINE(H) Pinus nigra 6"-8"	5		RUSSIAN SAGE (M) Perovskia atriplicifolia 5 gal	45		OVERSIZED GRAVEL & BOULDERS	
	NEW MEXICO OLIVE (M) Forestiera neomexicana	3		SUMMER BROOM (M) Spartium junceum 5 gal	21		3/4" SANTA ANA TAN WITH FILTER FAB	
				APACHE PLUME (L) Fallugia paradoxa 5 gal	50		SF BROWN GRAVEL WITH FILTER FAB	
				CHAMISA (L) Chrysothamnus nauseosus 1 gal	56			

SCANNED BY
MESA REPRO

IRVING BLVD.

RAINBOW BLVD.

PINON POINTE III

TRAVILLA

VENTANA LOOP

645 VENTANA RD.

Point of connection for irrigation is at Irrigation Valve No. 10. See Ventana Ranch overall AsBuilt.

LANDSCAPE NOTES:

Landscaping maintenance shall be the responsibility of the Property Owner.

It is the intent of this plan to comply with the City Of Albuquerque, water conservation Landscaping and waste water ordinance, planting restriction approach.

Approval of this plan does not constitute or imply exemption from water waste provisions of the water conservation landscaping and water waste ordinance. Water management is the sole responsibility of the Property Owner.

IRRIGATION NOTES:

Irrigation shall be a complete underground system with Trees to receive (5) 1.0 GPH Drip Emitters Shrubs to receive (2) 1.0 GPH Drip Emitters Drip and Bubbler systems to be tied to 1/2" poly pipe with flush caps at each end

Run time per each drip valve will be approximately 15 minutes per day, to be adjusted according to the season.

Point of connection for irrigation system is unknown at current time and will be coordinated in the field.

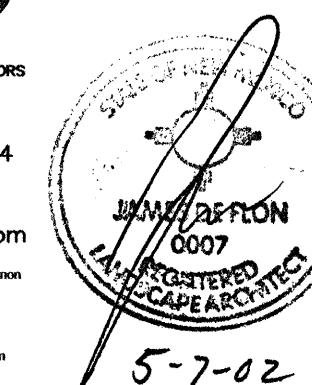
Irrigation will be operated by automatic controller. Location of controller to be field determined and power source for controller to be provided by others.

Irrigation maintenance shall be the responsibility of the Property Owner.

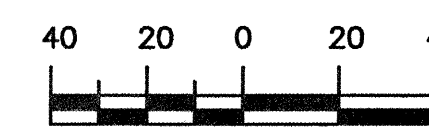
The Hilltop

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GRAPHIC SCALE



SCALE: 1"=40'

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
RAINBOW ROAD AT VENTANA RANCH
LANDSCAPE PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED AUG 19 2002 DESIGN REVIEW COMMITTEE	APPROVED SEP 17 2002 CITY ENGINEER		
CITY PROJECT NO. 687281	ZONE MAP NO. B-9	SHEET 12	OF 12

AS-BUILT INFORMATION	BENCH MARKS	SURVEY INFORMATION	ENGINEER'S SEAL	REVISIONS	DESIGN	DATE	DATE	DATE
CONTRACTOR: Sundance		NO.		NO.	DATE	DATE	DATE	DATE
WORKED BY: AJS		BY		REMARKS	DESIGN	DATE	DATE	DATE
INSPECTOR'S ACCEPTANCE BY: JSE		DATE		REVISIONS	DESIGN	DATE	DATE	DATE
VERIFICATION BY: AJS		DATE		DESIGN	DESIGN	DATE	DATE	DATE
DRAWINGS CORRECTED BY: AJS		DATE				DATE	DATE	DATE
MICRO-FILM INFORMATION						DATE	DATE	DATE
RECORDED BY						DATE	DATE	DATE
NO.						DATE	DATE	DATE