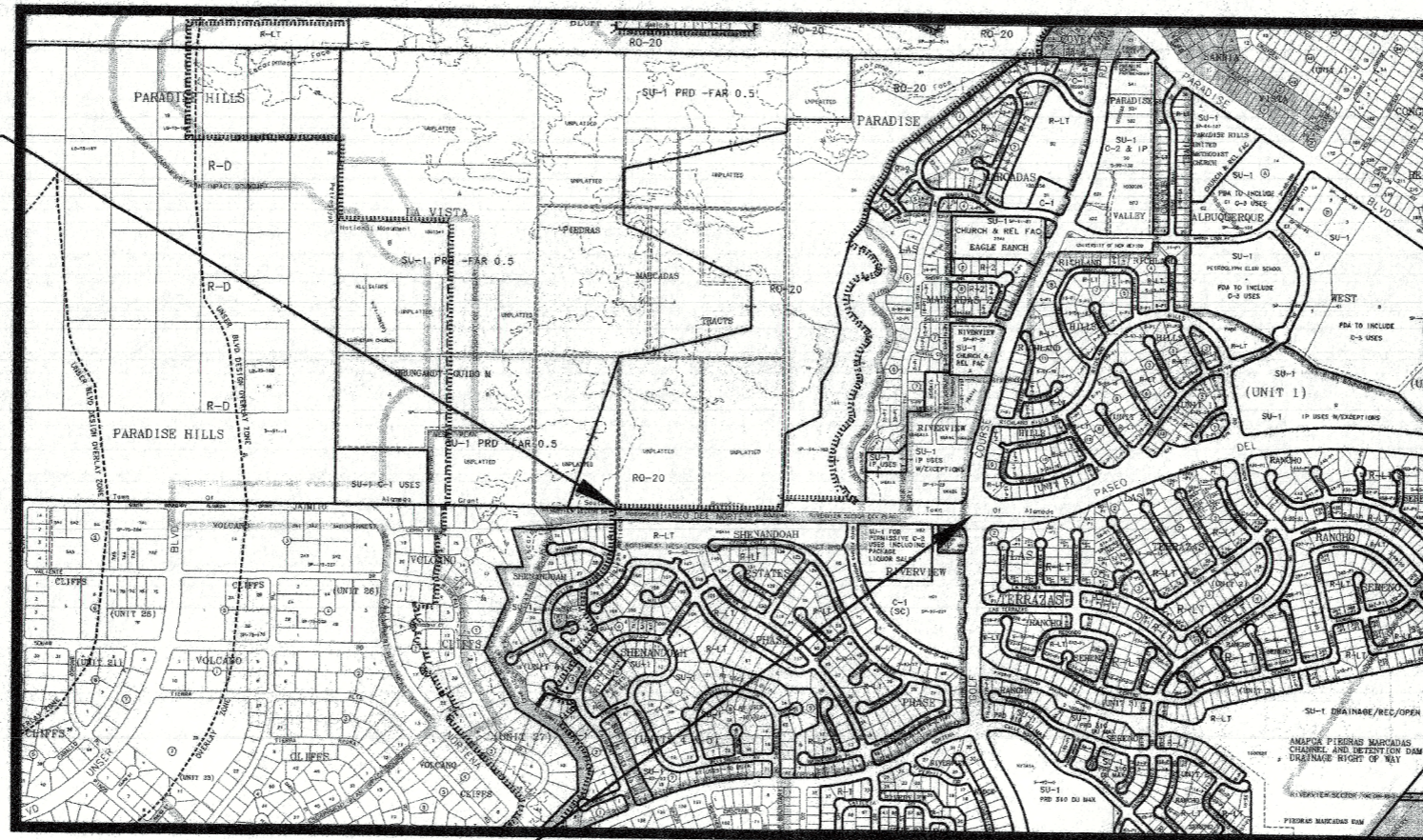


# CITY OF ALBUQUERQUE

## CONSTRUCTION PLANS

### PASEO DEL NORTE EXTENSION COA 704902

BEGINNING OF NEW  
CONSTRUCTION



END OF NEW  
CONSTRUCTION

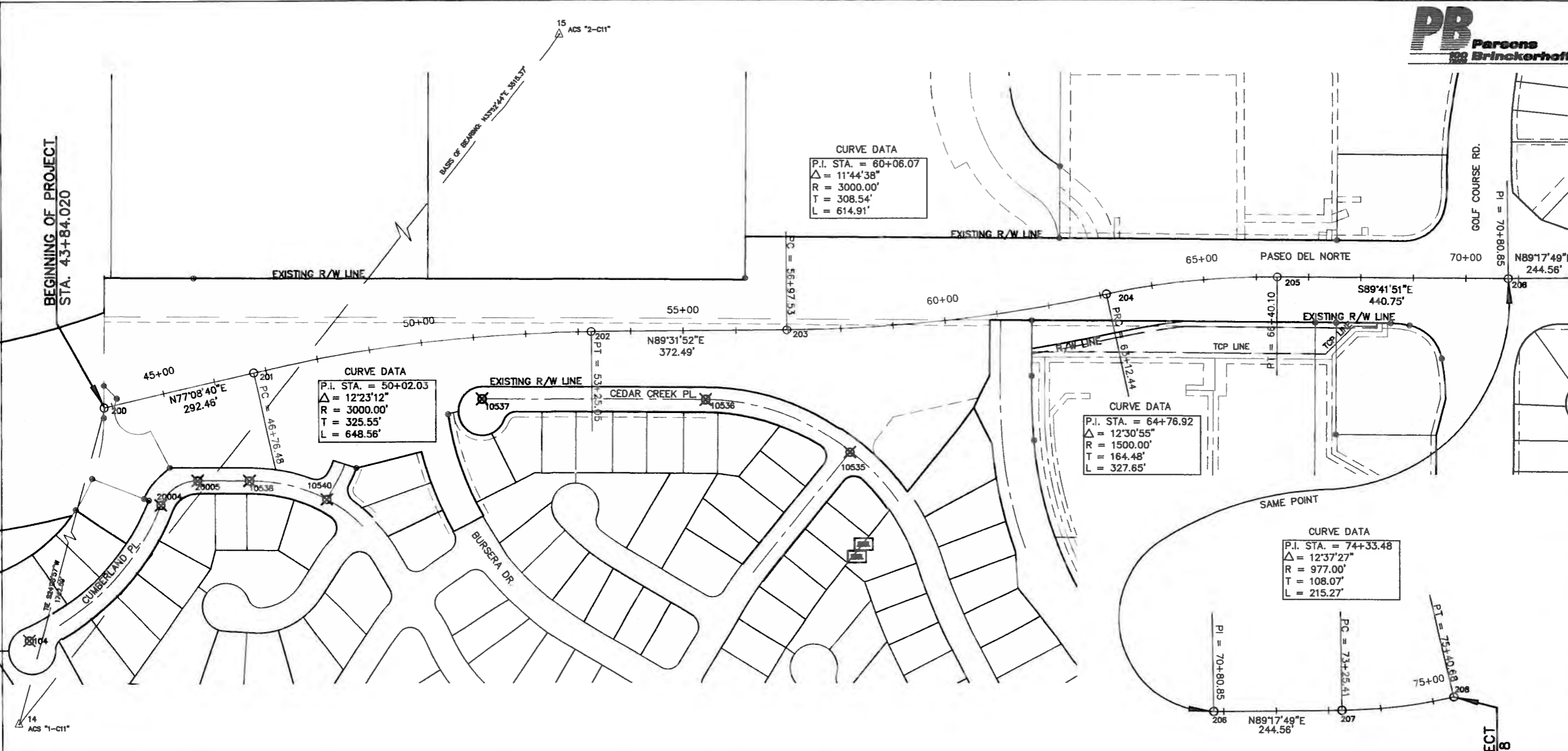


APPROVED FOR BIDDING: John P. Kelly 12/12/05  
A.M.A.F.C.A.

see transportation approval  
CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	
		DRC Chairman			12-12-05	APPROVED FOR CONSTRUCTION Date: 12-12-05	
		Transportation			11-21-05		
		Water/Wastewater			11-23-05		
		Hydrology			11-21-05		
		Parks			N/A		
		Constr. Coord.			11-21-05		
Traffic Eng.			N/A				
NMUI			12-3-05				
AMAFCA							
PROJECT NO.						SHEET	
704902						1 of 116	

11-16-05



**CURVE DATA**  
 P.I. STA. = 60+06.07  
 Δ = 11°44'38"  
 R = 3000.00'  
 T = 308.54'  
 L = 614.91'

**CURVE DATA**  
 P.I. STA. = 50+02.03  
 Δ = 12°23'12"  
 R = 3000.00'  
 T = 325.55'  
 L = 648.56'

**CURVE DATA**  
 P.I. STA. = 64+76.92  
 Δ = 12°30'55"  
 R = 1500.00'  
 T = 164.48'  
 L = 327.65'

**CURVE DATA**  
 P.I. STA. = 74+33.48  
 Δ = 12°37'27"  
 R = 977.00'  
 T = 108.07'  
 L = 215.27'

SURVEY CONTROL POINTS						
SURVEY POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
14			1519827.8700	366162.8700	5272.34	1-C11 COA GEODETIC
15	56+53.39	-1185.62	1522548.3900	368122.5800	0.00	2-C11 COA GEODETIC
104			1520775.8300	368731.5800	5168.24	CENTERLINE MONU
10535	58+07.43	232.69	1521131.6350	368296.7020	5117.63	ACS CL MON
10536	55+42.01	130.16	1521229.7440	368021.9750	5123.56	ACS CL MON
10537	51+07.11	116.49	1521232.3220	367595.6820	5145.66	ACS CL MON
10538	46+22.82	197.12	1521078.9090	367152.5650	5152.99	ACS CL MON
10540	47+65.74	264.32	1521042.2650	367299.4430	5147.07	ACS CL MON
20004	44+47.79	205.20	1521032.0910	366983.7180	5160.56	ACS CL MON
20005	45+26.75	174.59	1521079.5040	367053.8850	5157.05	ACS CL MON

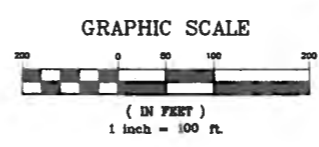
NOTE: COORDINATES SHOWN IN THIS BOX ARE LOCAL GROUND VALUES.

CONSTRUCTION CENTERLINE POINTS						
SURVEY POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
200	43+84.02	0	1521217.9573	368875.8883		CL B.O.P.
201	46+76.48	0	1521283.0288	367161.0210		PC
202	53+25.05	0	1521358.1265	367803.9494		PT
203	56+97.53	0	1521361.1754	368176.4249		PC
204	63+12.44	0	1521428.9701	368786.5048		PT
205	66+40.10	0	1521462.8968	369111.7405		PC
206	70+80.85	0	1521460.5701	369552.4922		PI
207	73+25.41	0	1521463.5711	369797.0334		PC
208	75+40.68	0	1521466.8088	370010.2556		PT - E.O.P.

NOTE: COORDINATES SHOWN IN THIS BOX ARE LOCAL GROUND VALUES.

**NOTE:**  
 BASIS OF BEARING: N33°52'44"E  
 BETWEEN CITY OF ALBUQUERQUE  
 GEODETIC CONTROL SURVEY MONUMENTS  
 "1-C11" AND "2-C11".

- LEGEND:**
- △ DENOTES FOUND CITY OF ALBUQUERQUE GEODETIC CONTROL SURVEY MONUMENT
  - ⊙ DENOTES FOUND PROPERTY CORNER
  - ⊕<sub>100</sub> DENOTES CONTROL POINT
  - <sub>101</sub> DENOTES CALCULATED POINT
  - DENOTES EXISTING EASEMENT



AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	WORK	DATE	NO.	BY	NO.	DATE
ACS 1-C11		Aluminum Cap attempted "ACS 1-C11"					
ACS 3 1/4"		Near intersection of Ridgeway Dr. & Calle Hartena					
		Geographic Position (NAD 27), in feet					
		N.M. Slope Plane Coordinates (Central Zone)					
		X=366,041.88, Y=1,519,125.33					
		Elevation=5272.34 NGVD28, in feet					



**CITY OF ALBUQUERQUE  
 DEPARTMENT OF MUNICIPAL DEVELOPMENT  
 TRANSPORTATION DIVISION**

**PASEO DEL NORTE EXTENSION  
 SURVEY CONTROL PLAN**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
DEC 1 2 2005	DEC 1 2 2005		
DESIGN	CITY ENGINEER		
REV. S.W. COMMITTEE			

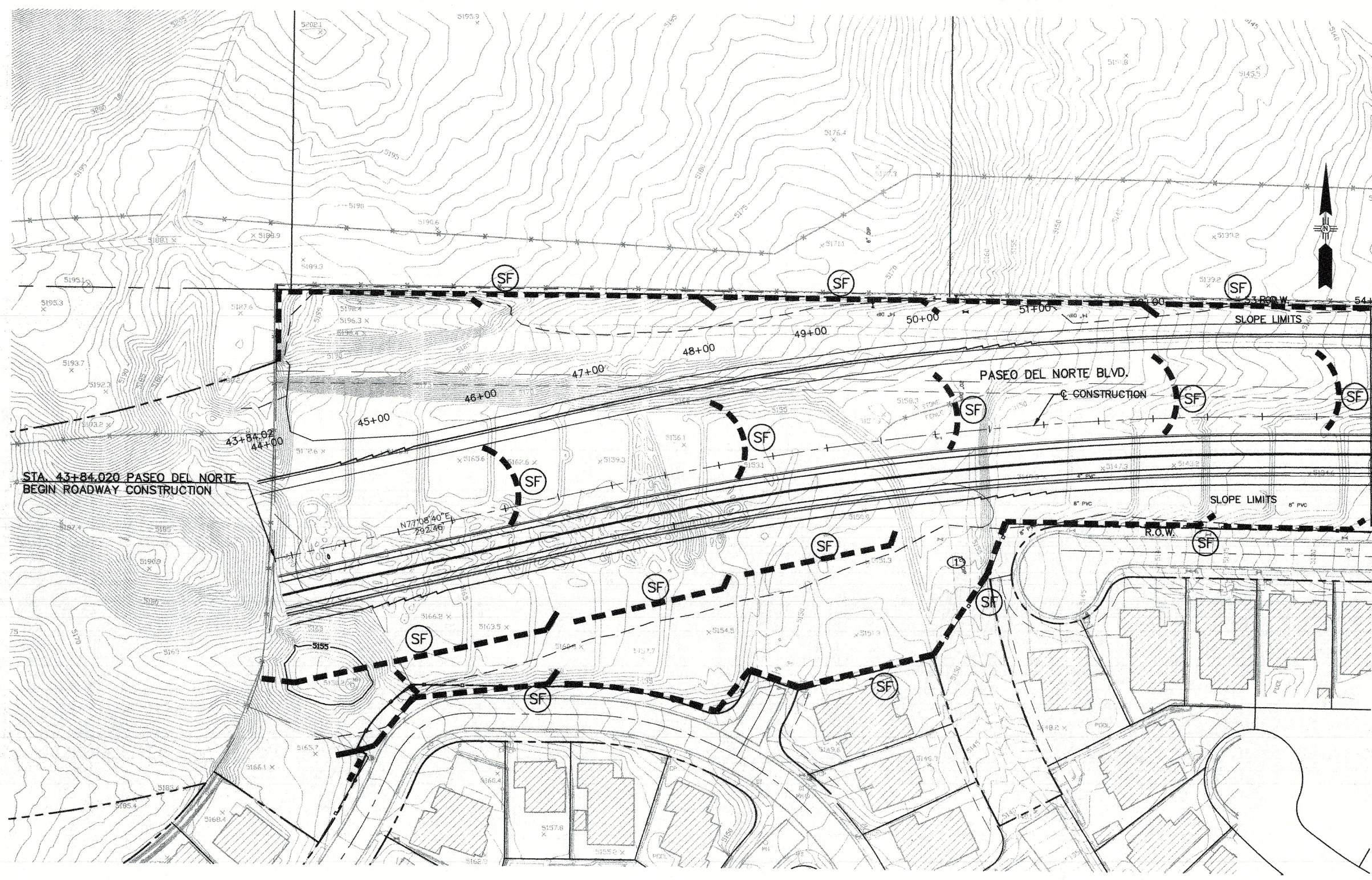
City Project No. COA 704902      Zone Map No. C - 11      Sheet 2 Of 116



**GENERAL NOTES:**

1. INSTALL SILT FENCE ALONG R.O.W. LINE.

**LEGEND**



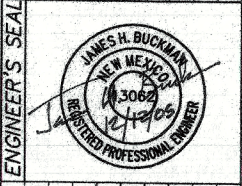
STA. 43+84.020 PASEO DEL NORTE  
BEGIN ROADWAY CONSTRUCTION

MATCHLINE STA. 54+00

AS BUILT INFORMATION	
CONTRACTOR	DATE
WORK STARTED BY	DATE
ACCEPTANCE BY	DATE
FIELD NOTES BY	DATE
DRAWINGS BY	DATE
CHECKED BY	DATE
CORRECTED BY	DATE
RECORDED BY	DATE

BENCH MARKS	
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	
Near Intersection of Ridgeway Dr. & Calle Nortena	
Geographic Position (NAD 27), in feet	
N.M. State Plane Coordinates (Central Zone)	
X=366,041.88, Y=1,519,125.33	
Elevation=5272.34 NGVD29, in feet	

SURVEY INFORMATION	
NO.	DATE
BY	



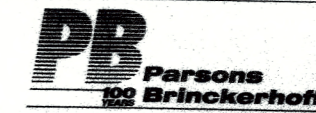
NO.	DATE	REMARKS	BY
		DESIGN	
		DRAWN BY	
		CHECKED BY	

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
**TEMPORARY EROSION & SEDIMENT CONTROL**

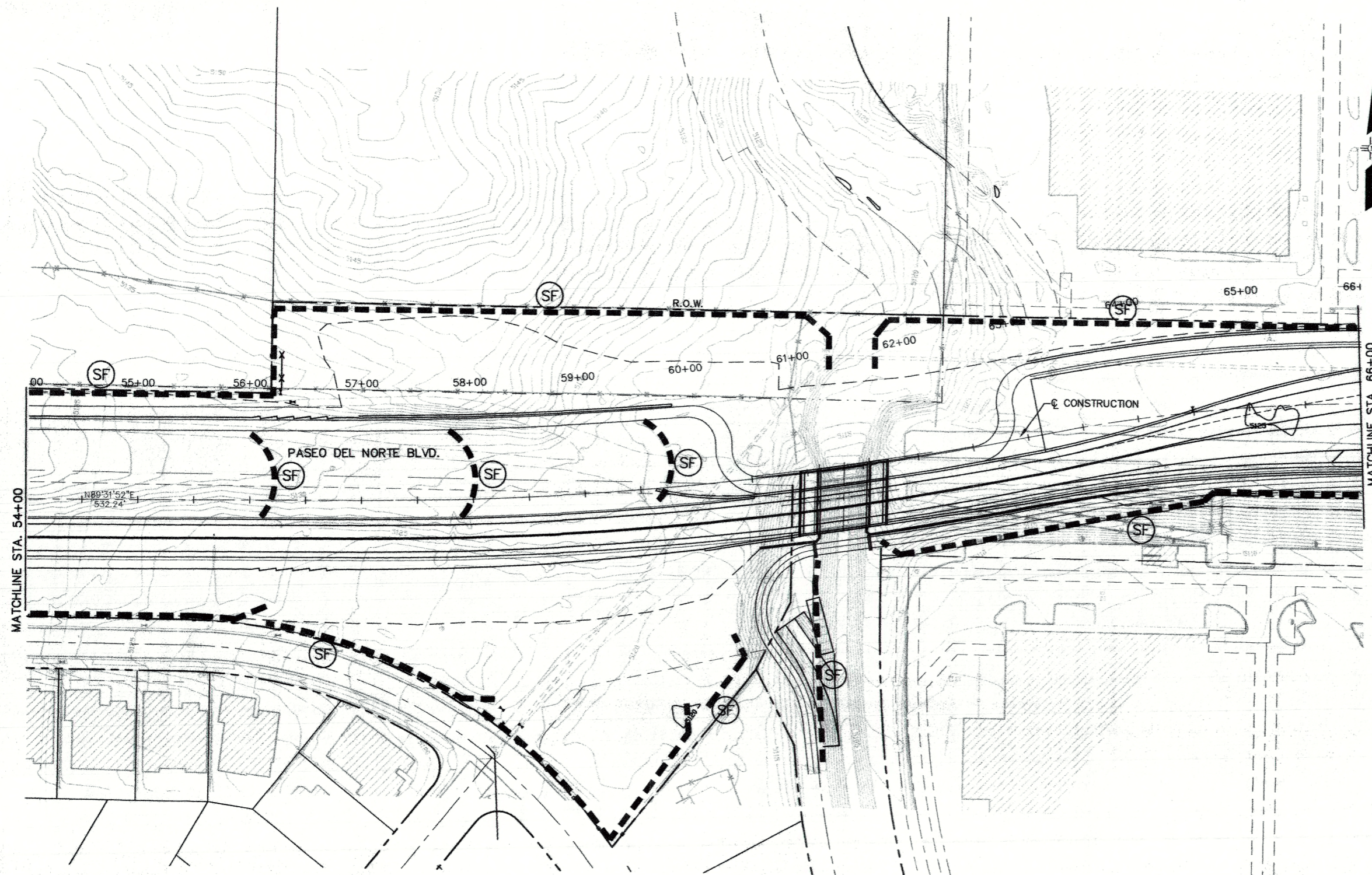
DESIGN REVIEW COMMITTEE APPROVAL DEC 1 2 2005	CITY ENGINEER APPROVAL DEC 1 2 2005	NO./DAY/YR.	NO./DAY/YR.

City Project No. COA 704902      Zone Map No. C - 11      Sheet 3      Of 116



**GENERAL NOTES:**  
 1. INSTALL SILT FENCE ALONG R.O.W. LINE.

**LEGEND**  
 SILT FENCE



AS BUILT INFORMATION	
CONTRACTOR	DATE
WORK STARTED BY	DATE
ACCEPTANCE BY	DATE
DESIGNATION BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE
RECORDED BY	DATE
NO.	DATE

BENCH MARKS	
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	DATE
Near Intersection of Ridgeway Dr. & Calle Norteno	DATE
Geographic Position (NAD 27), in feet	DATE
N.M. State Plane Coordinates (Central Zone)	DATE
X=388,041.88, Y=1,519,125.33	DATE
Elevation=5272.34 NGVD29, in feet	DATE
NO.	DATE

SURVEY INFORMATION	
NO.	DATE
BY	DATE
NO.	DATE
BY	DATE
NO.	DATE
BY	DATE

ENGINEER'S SEAL	
NO.	DATE
BY	DATE
NO.	DATE
BY	DATE
NO.	DATE
BY	DATE



CITY OF ALBUQUERQUE  
 DEPARTMENT OF MUNICIPAL DEVELOPMENT  
 TRANSPORTATION DIVISION

**PASEO DEL NORTE EXTENSION  
 TEMPORARY EROSION & SEDIMENT CONTROL**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MG./DAY/YR.	MG./DAY/YR.
DEC 1 2 2005	DEC 1 2 2005		
DESIGN COMMITTEE	CITY ENGINEER		

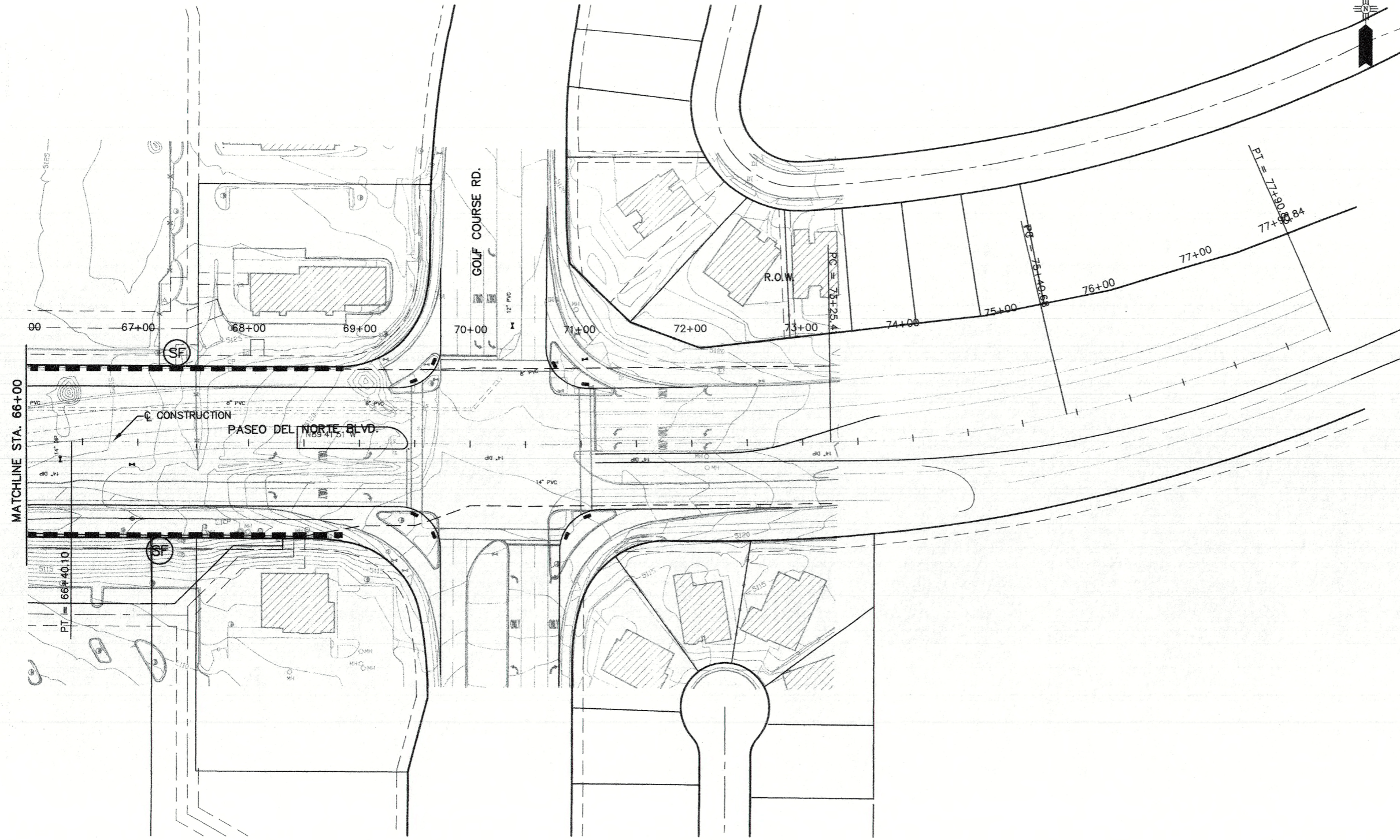
City Project No. COA 704902      Zone Map No. C - 11      Sheet 4      Of 116



**GENERAL NOTES:**

1. INSTALL SILT FENCE ALONG R.O.W. LINE.

**LEGEND**



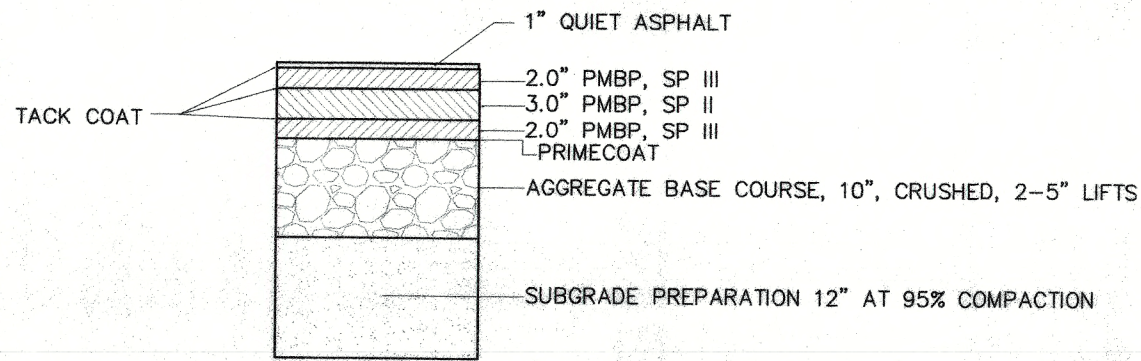
CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
**TEMPORARY EROSION & SEDIMENT CONTROL**

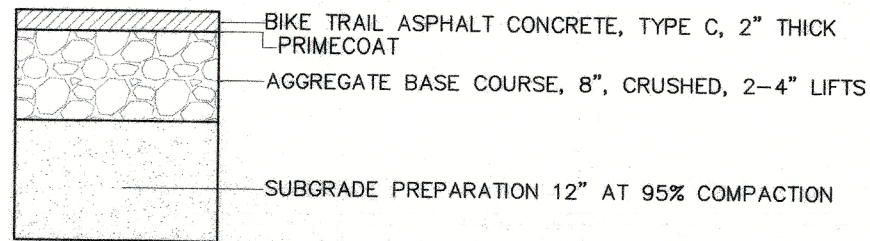
DESIGN REVIEW COMMITTEE APPROVED DEC 12 2005	CITY ENGINEER APPROVAL APPROVED DEC 12 2005 CITY ENGINEER	MO./DAY/YR.	MO./DAY/YR.
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City Project No. COA 704902      Zone Map No. C - 11      Sheet 5 Of 116

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		NO.	DATE	ACS 3 1/4" Aluminum Cap stamped "ACS 1-011"	CONTRACTOR	WORK	DATE
		BY	DATE	Near Intersection of Ridgeway Dr. & Calle Nortena	STAMPED BY	DATE	DATE
NO.	DATE	NO.	DATE	N.M. State Plane Coordinates (Central Zone)	FIELD ACCEPTANCE BY	DATE	DATE
REMARKS	DATE	NO.	DATE	X=366,041.88, Y=1,519,125.33	FIELD CORRECTION BY	DATE	DATE
DESIGNED BY	DATE	NO.	DATE	Elevation=5272.34 NGVD29, in feet	DRAWINGS	DATE	DATE
DRAWN BY	DATE	NO.	DATE		CORRECTED BY	DATE	DATE
CHECKED BY	DATE	NO.	DATE		RECORDED BY	DATE	DATE



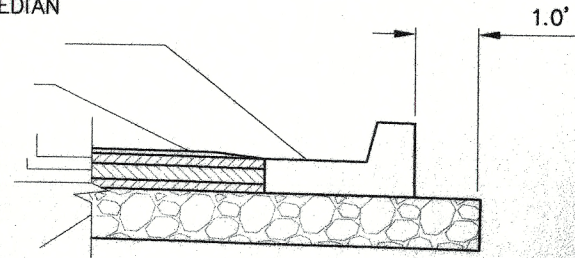
**PAVEMENT SECTION NO. 1**  
 PASEO DEL NORTE  
 GOLF COURSE ROAD



**PAVEMENT SECTION NO. 2**  
 RECREATIONAL TRAIL

CURB & GUTTER, STANDARD  
 (STD DWG 2415A)  
 OR  
 CURB & GUTTER, MEDIAN  
 (STD DWG 2415b)

1" QUIET ASPHALT  
 TAPER FLUSH AT  
 EDGE OF GUTTER  
 2.0" PMBP, SP III  
 3.0" PMBP, SP II  
 2.0" PMBP, SP III  
 AGGREGATE BASE  
 COURSE, 10", CRUSHED,  
 2-5" LIFTS



**PAVEMENT AT CURB DETAIL**

AS BUILT INFORMATION	
CONTRACTOR	DATE
INSPECTOR'S NAME	DATE
FIELD CHECKED BY	DATE
FIELD CALCULATED BY	DATE
CHECKED BY	DATE
RECORDED BY	DATE
NO.	

BENCH MARKS	
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	
Near Intersection of Ridgeway Dr. & Calle Mortena	
Geographic Position (NAD 27), in feet	
N.M. State Plane Coordinates (Central Zone)	
X=366,041.88, Y=1,519,125.33	
Elevation=5272.34, NAVD029, in feet	

SURVEY INFORMATION	
FIELD NOTES	DATE
BY	
NO.	

ENGINEER'S SEAL	
DAVID G. BRAUER NEW MEXICO 10617 REGISTERED PROFESSIONAL ENGINEER	11-16-05

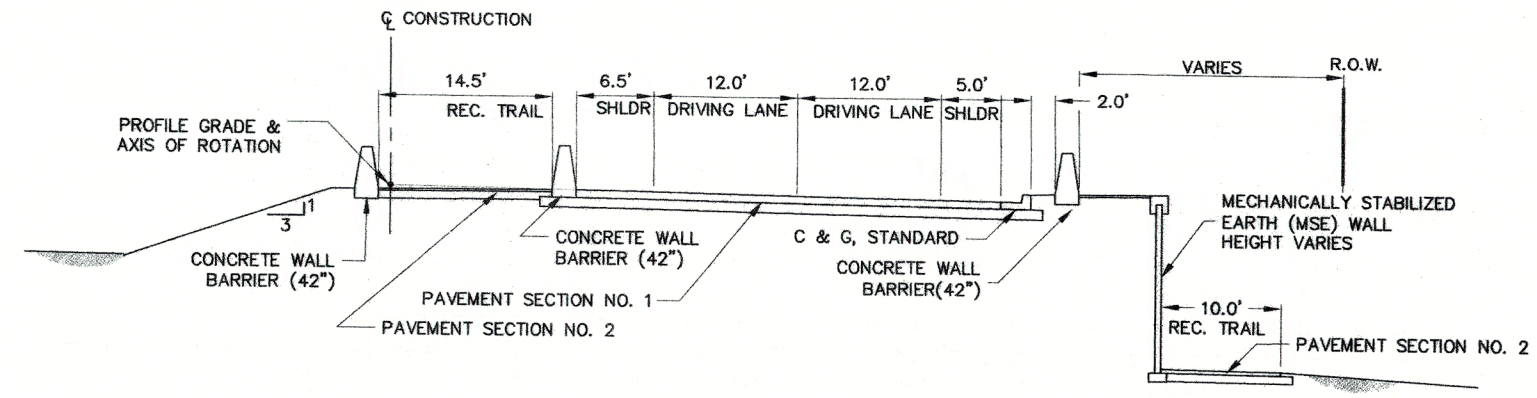
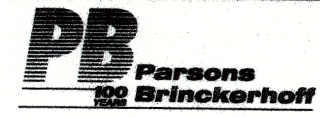
NO.	DATE	REMARKS	BY
	DESIGNED BY	DESIGN	
	DRAWN BY	DGB	11/13/05
	CHECKED BY	DGB	11/13/05
		DGB	11/15/05

CITY OF ALBUQUERQUE  
 DEPARTMENT OF MUNICIPAL DEVELOPMENT  
 TRANSPORTATION DIVISION

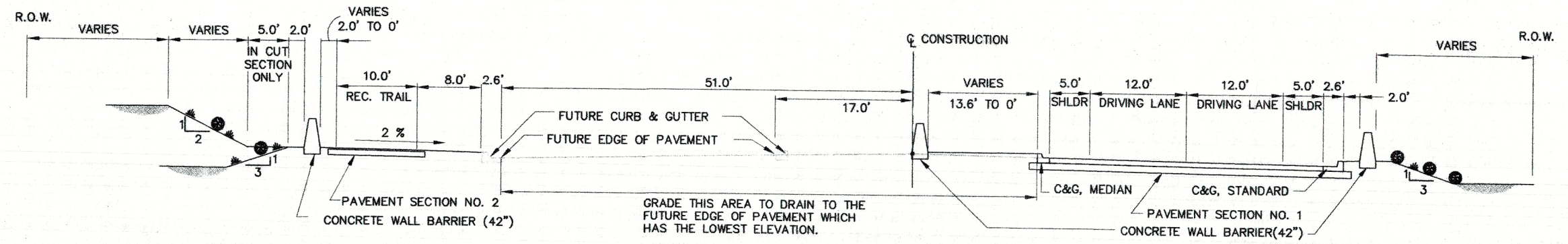
PASEO DEL NORTE EXTENSION  
**PROPOSED TYPICAL SECTIONS**

DESIGN REVIEW COMMITTEE APPROVAL DEC 1 2 2005	CITY ENGINEER APPROVAL DEC 1 3 2005	MO./DAY/YR.	MO./DAY/YR.
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City Project No. COA 704902      Zone Map No. C - 11      Sheet 6 Of 116



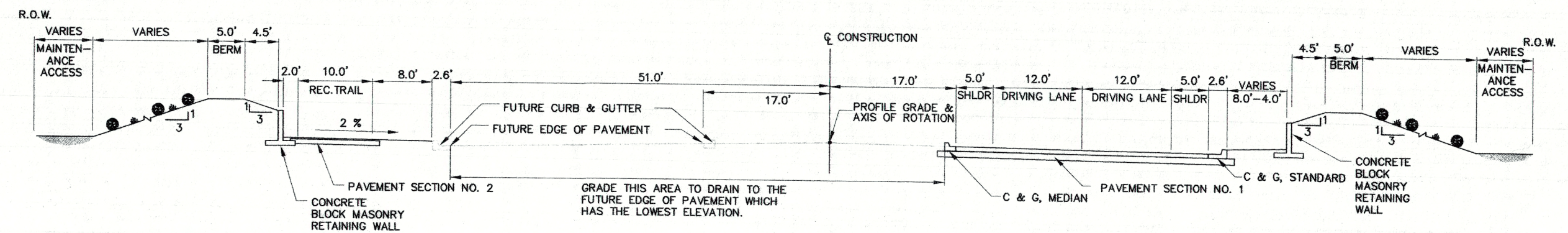
STATION 60+50.00 TO STATION 63+12.44  
(BRIDGE FROM STATION 60+93.42 TO STATION 61+73.05)



STATION 56+97.53 TO STATION 60+00.00

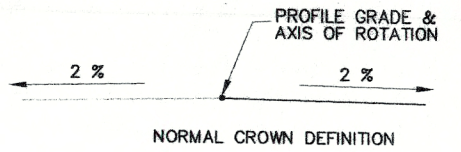
STATION 59+63 TO STATION 60+50.00

STATION 60+00.00 TO STATION 60+50.00



STATION 43+84.02 TO STATION 56+97.53

STATION 43+84.02 TO STATION 60+50.00  
\* BERM TRANSITIONS - STATION 60+00.00 TO STATION 60+50.00



PROPOSED TYPICAL SECTION NO. 1 PASEO DEL NORTE  
STATION 43+84.02 TO STATION 63+12.44

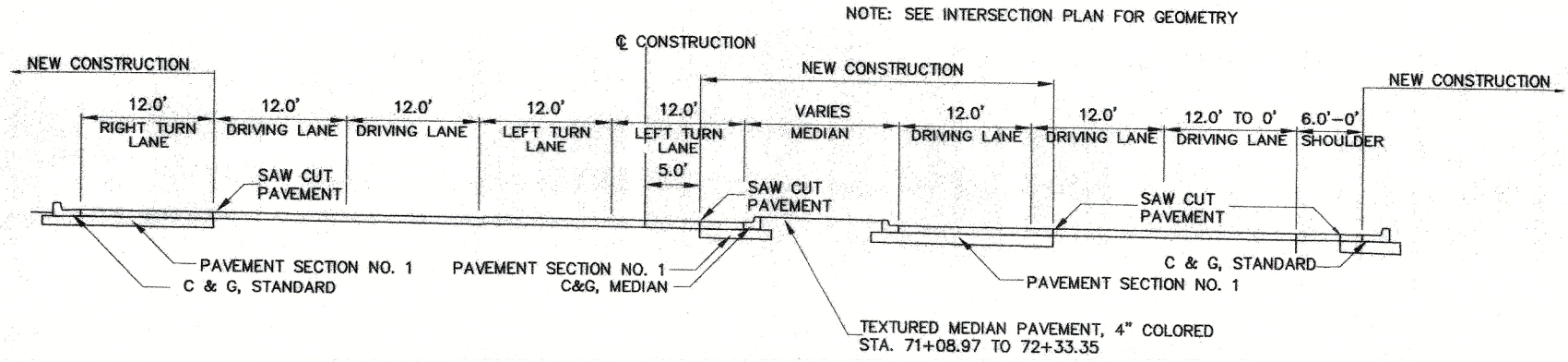
AS BUILT INFORMATION	
CONTRACTOR	NO.
WORK DATED BY	DATE
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE
RECORDED BY	DATE
BENCH MARKS	
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	
Near intersection of Ridgeway Dr. & Calle Norte	
Geographic Position (NAD 27), in feet	
N.M. State Plane Coordinates (Central Zone)	
X=366,041.88, Y=1,519,125.33	
Elevation=5272.34 NGVD29, in feet	
MICRO-FILM INFORMATION	
NO.	DATE
NO.	DATE
SURVEY INFORMATION	
FIELD NOTES	BY
NO.	DATE
NO.	DATE
NO.	DATE
ENGINEER'S SEAL	
DAVID G. BRAUER	11/15/05
REGISTERED PROFESSIONAL ENGINEER	
REMARKS	
DESIGN	11/13/05
DOB	11/13/05
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

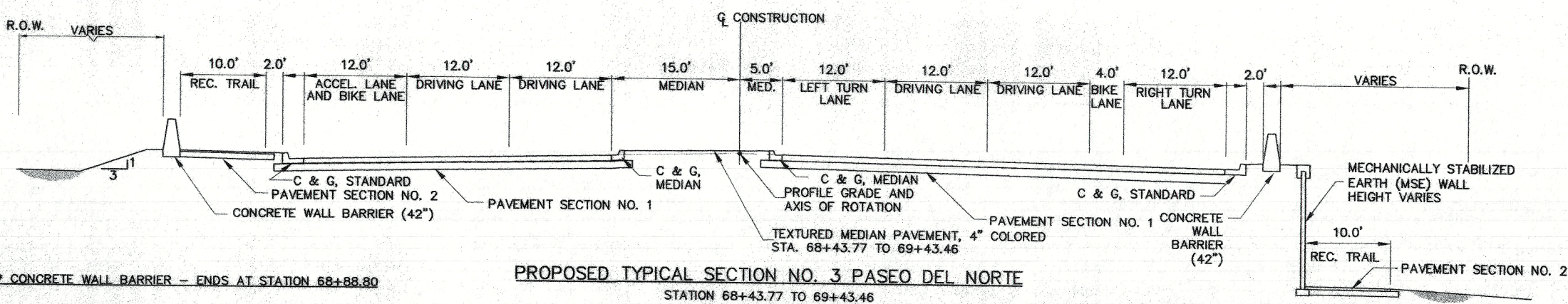
PASEO DEL NORTE EXTENSION  
PROPOSED TYPICAL SECTIONS

DESIGN REVIEW COMMITTEE APPROVED DEC 1 2 2005	CITY ENGINEER APPROVAL DEC 1 2 2005	MO./DAY/YR.	MO./DAY/YR.

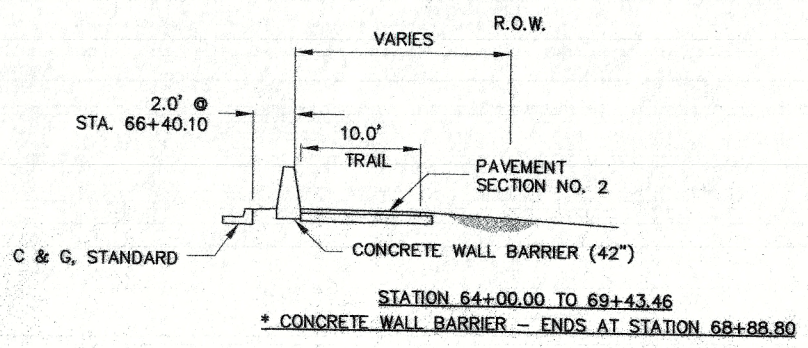
City Project No. COA 704902      Zone Map No. C - 11      Sheet 7      Of 116



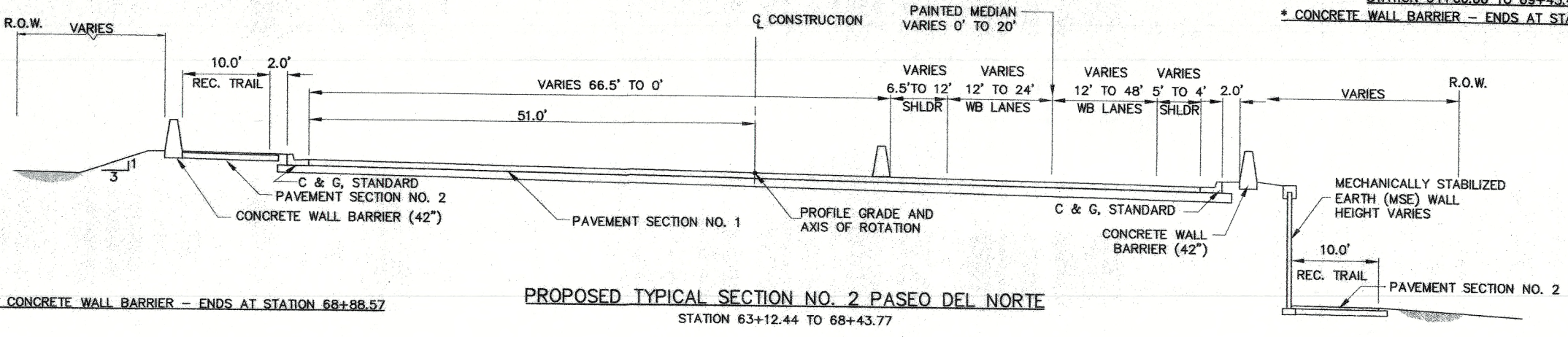
**PROPOSED TYPICAL SECTION NO. 4 PASEO DEL NORTE**  
STATION 71+00 TO E.O.P.



**PROPOSED TYPICAL SECTION NO. 3 PASEO DEL NORTE**  
STATION 68+43.77 TO 69+43.46  
STATION 69+43.46 TO 71+00 IS INTERSECTION WITH GOLF COURSE ROAD



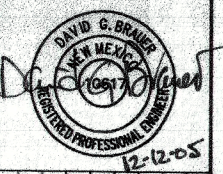
STATION 64+00.00 TO 69+43.46  
\* CONCRETE WALL BARRIER - ENDS AT STATION 68+88.80



**PROPOSED TYPICAL SECTION NO. 2 PASEO DEL NORTE**  
STATION 63+12.44 TO 68+43.77

STATION 63+12.44 TO STATION 64+00.00

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	DATE	NO.	BY	NO.	DATE
WORK STARTED BY	DATE	Near Intersection of Ridgeway Dr. & Calle Norlena	DATE	DESIGN	BY	DESIGN	DATE
FIELD ACCEPTANCE BY	DATE	Geographic Position (NAD 27), in feet	DATE	DRAWN	BY	DRAWN	DATE
FIELD CHECKER BY	DATE	N.M. State Plane Coordinates (Central Zone)	DATE	CHECKED	BY	CHECKED	DATE
DRAWN BY	DATE	X=366,041.88, Y=1,519,125.33	DATE	REMARKS	BY	REMARKS	DATE
CORRECTED BY	DATE	Elevation=5272.34 NGVD29, in feet	DATE		BY		DATE
RECORDED BY	DATE		DATE		BY		DATE
					BY		DATE

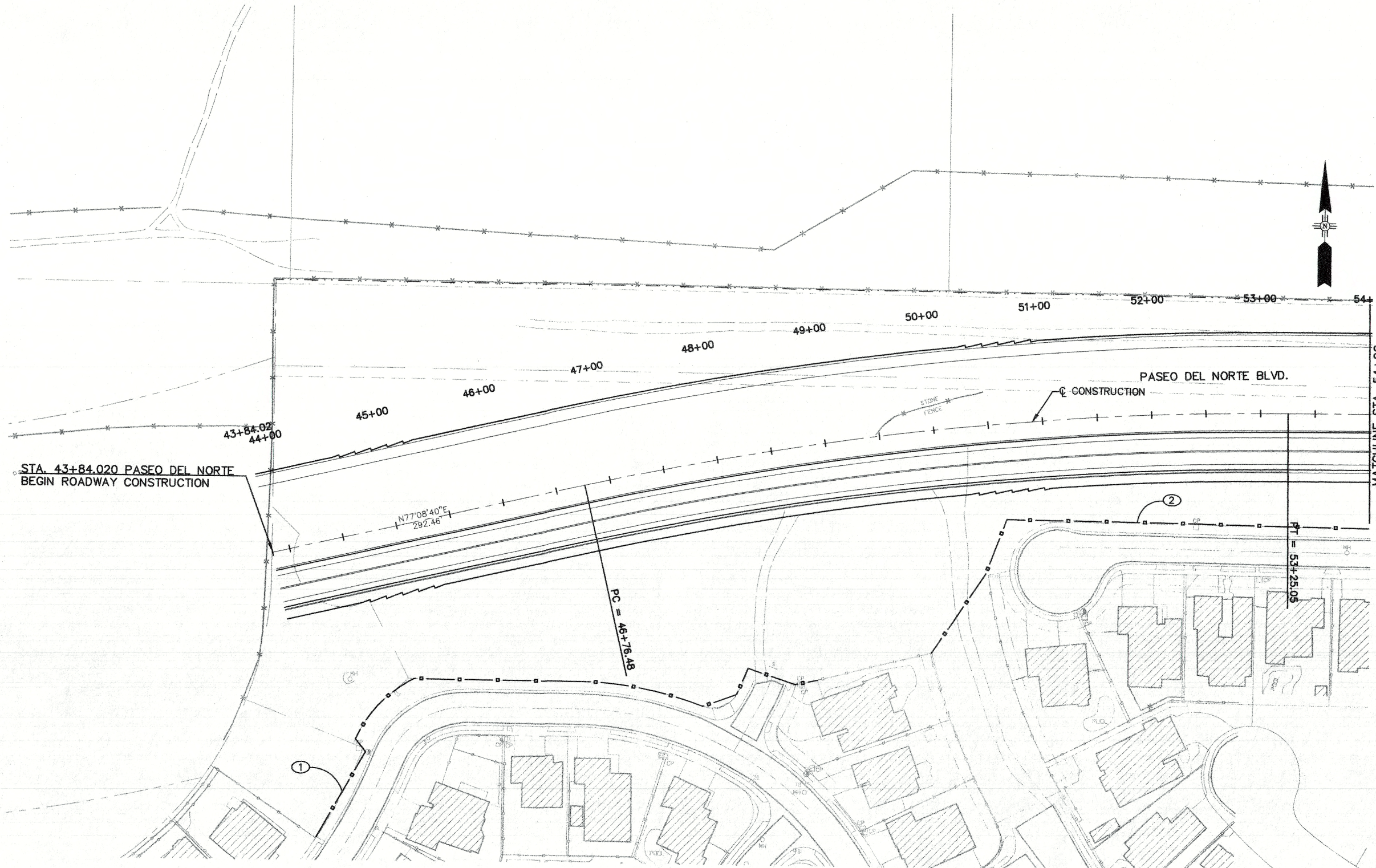


CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

**PASEO DEL NORTE EXTENSION**  
**PROPOSED TYPICAL SECTIONS**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVE DEC 12 2005	APPROVE DEC 12 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 8      Of 116



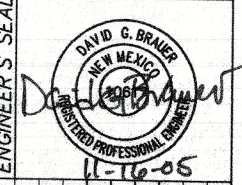
**KEYED NOTES:**

- ① STA. 43+84.02, 250' RT. TO STA. 48+59.71, 213' RT. BUILD 574' OF OPEN SPACE FENCE
- ② STA. 49+74.62', 202' RT. TO STA. 59+35.57, 278' RT. BUILD 1115' OF OPEN SPACE FENCE

**GENERAL NOTES:**

1. CONTRACTOR SHALL BUILD OPEN SPACE FENCE PRIOR TO COMMENCING CONSTRUCTION.
2. CONTRACTOR'S ACCESS TO THE PROJECT SHALL BE FROM PASEO DEL NORTE AND NO OTHER ACCESS SHALL BE USED.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	CONTRACTOR	DATE	NO.	BY	NO.	DATE
CONTRACTOR	DATE	ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	DATE				
INSPECTOR'S NAME	DATE	Near Intersection of Ridgeway Dr. & Calle Nortena	DATE				
INSPECTOR'S FIELD MARK BY	DATE	Geographic Position (NAD 27), in feet	DATE				
VERIFICATION BY	DATE	N.M. State Plane Coordinates (Central Zone)	DATE				
CORRECTED BY	DATE	X=366,041.86, Y=1,519,125.33	DATE				
MICRO-FILM INFORMATION	DATE	Elevation=5272.34 NGVD29, in feet	DATE				
RECORDED BY	NO.						



CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
**FENCING PLAN**

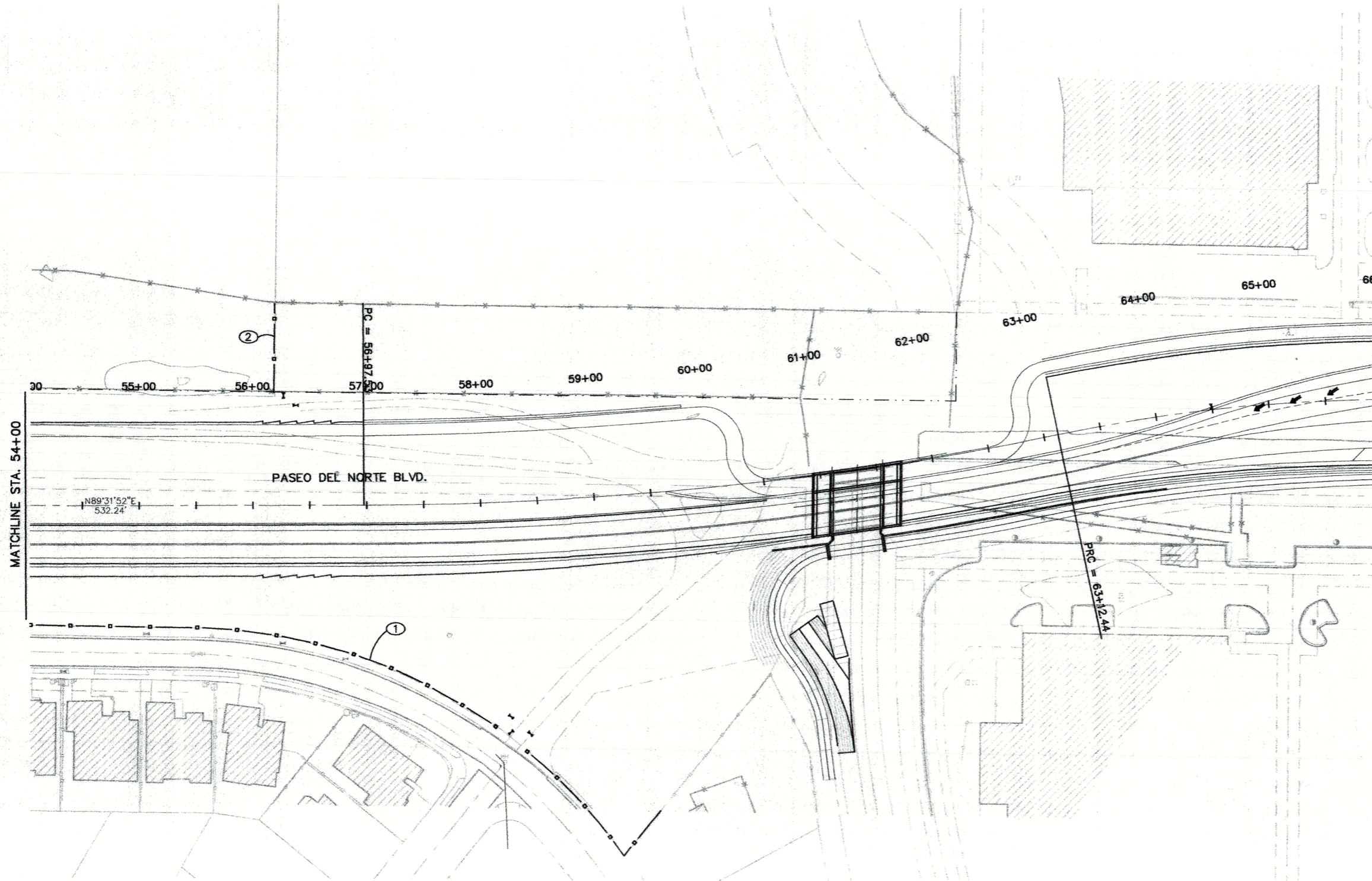
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
DEC 1 8 2005	DEC 1 8 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 9 Of 116



**KEYED NOTES:**

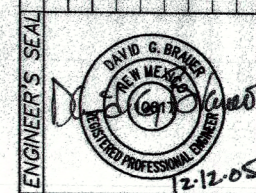
- ① STA. 49+74.62', 202' RT. TO STA. 59+35.57, 278' RT. BUILD 1115' OF OPEN SPACE FENCE
- ② STA. 56+18.85, BUILD 78.63' OF OPEN SPACE FENCE



AS BUILT INFORMATION	
CONTRACTOR	DATE
WORK STARTED BY	DATE
ASSISTANT BY	DATE
FIELD DRAWN BY	DATE
CHECKED BY	DATE
RECORDED BY	DATE
NO.	

BENCH MARKS	
ACS 3 1/4" Aluminum Cap stamped "ACS 1-011"	DATE
Near Intersection of Ridgeway Dr. & Calle Nortera	BY
Geographic Position (NAD 27), in feet	NO.
N.M. Sica Plane Coordinates (Central Zone)	
X=566,041.86, Y=1,519,126.33	
Elevation=5272.34 NGVD29, in feet	

SURVEY INFORMATION	
FIELD NOTES	DATE
BY	BY
NO.	NO.



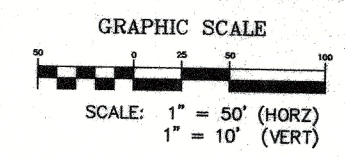
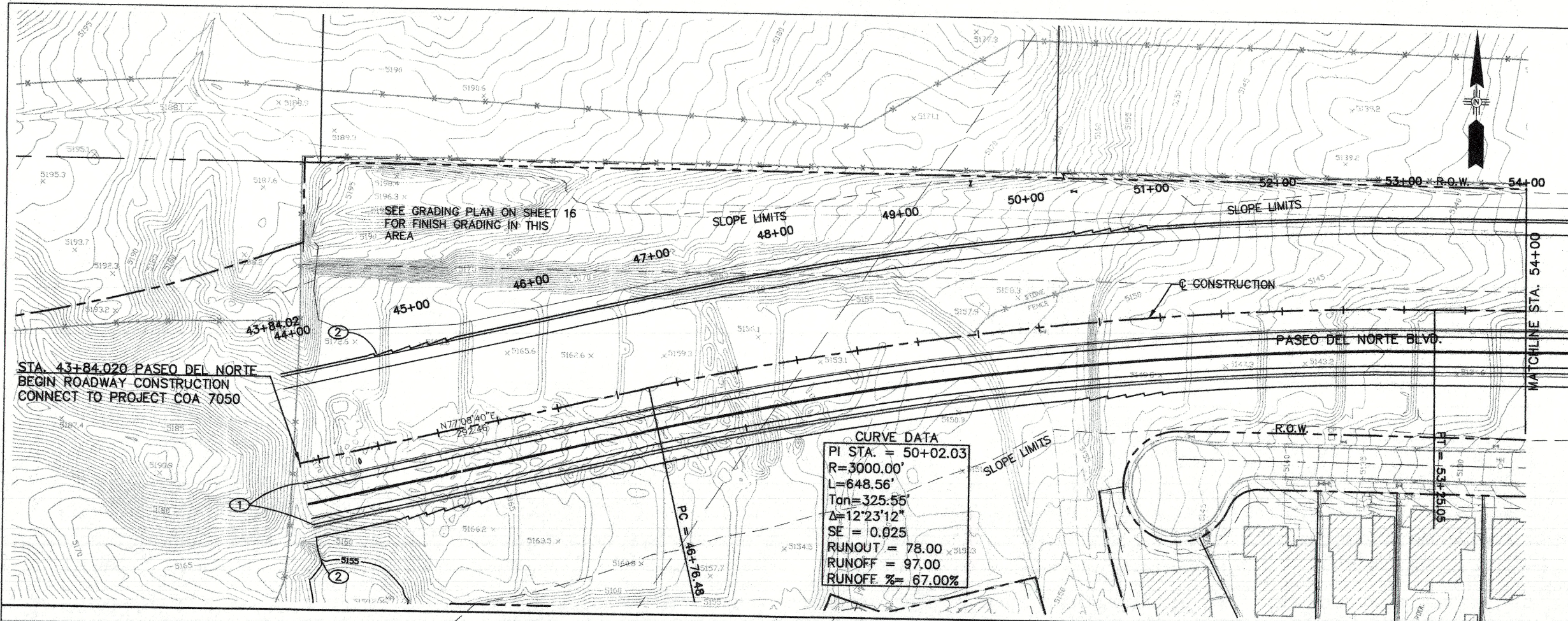
ENGINEER'S SEAL	
REMARKS	DATE
BY	DATE
DESIGN	DATE
DRAWN BY	DATE
CHECKED BY	DATE

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
FENCING PLAN

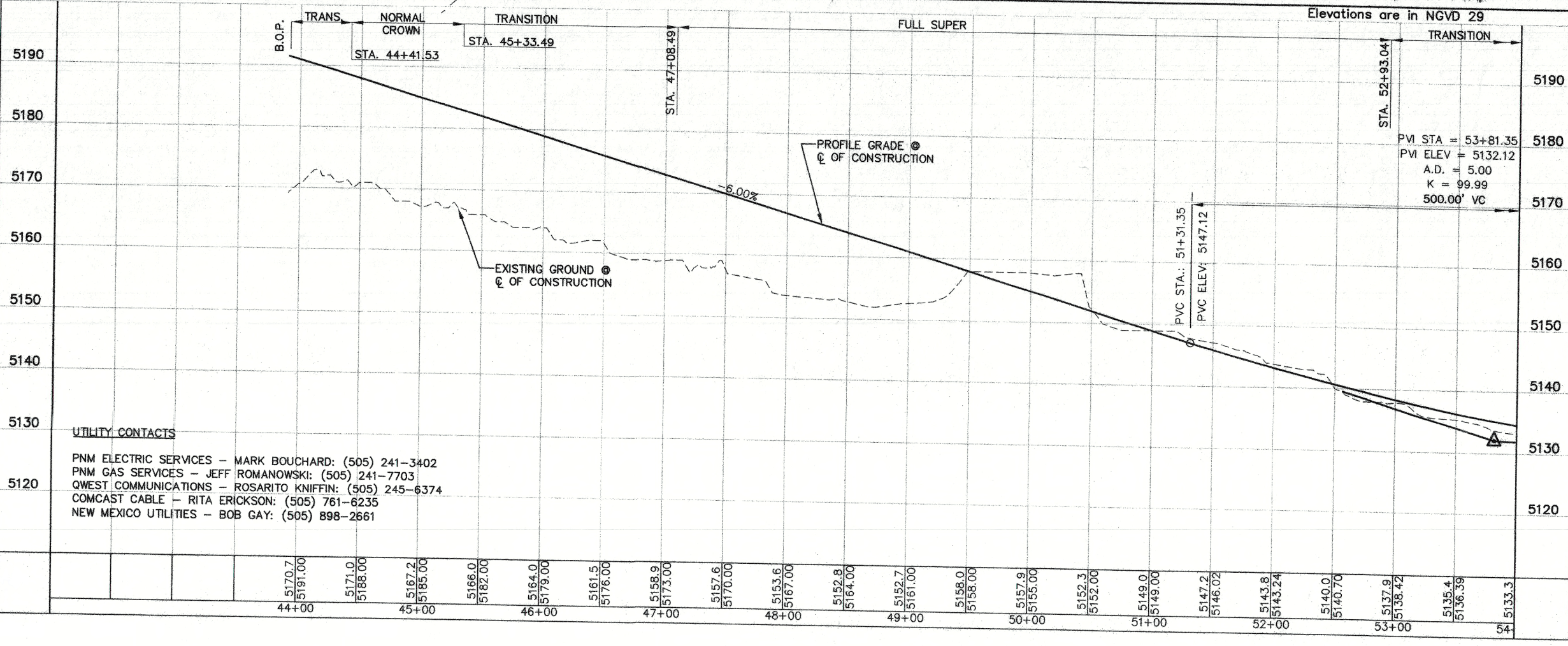
DESIGN REVIEW COMMITTEE APPROVAL DEC 1 2 2005	CITY ENGINEER APPROVAL DEC 1 2 2005	MO./DAY/YR.	MO./DAY/YR.
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 10 Of 116



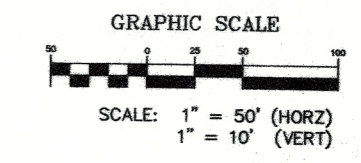
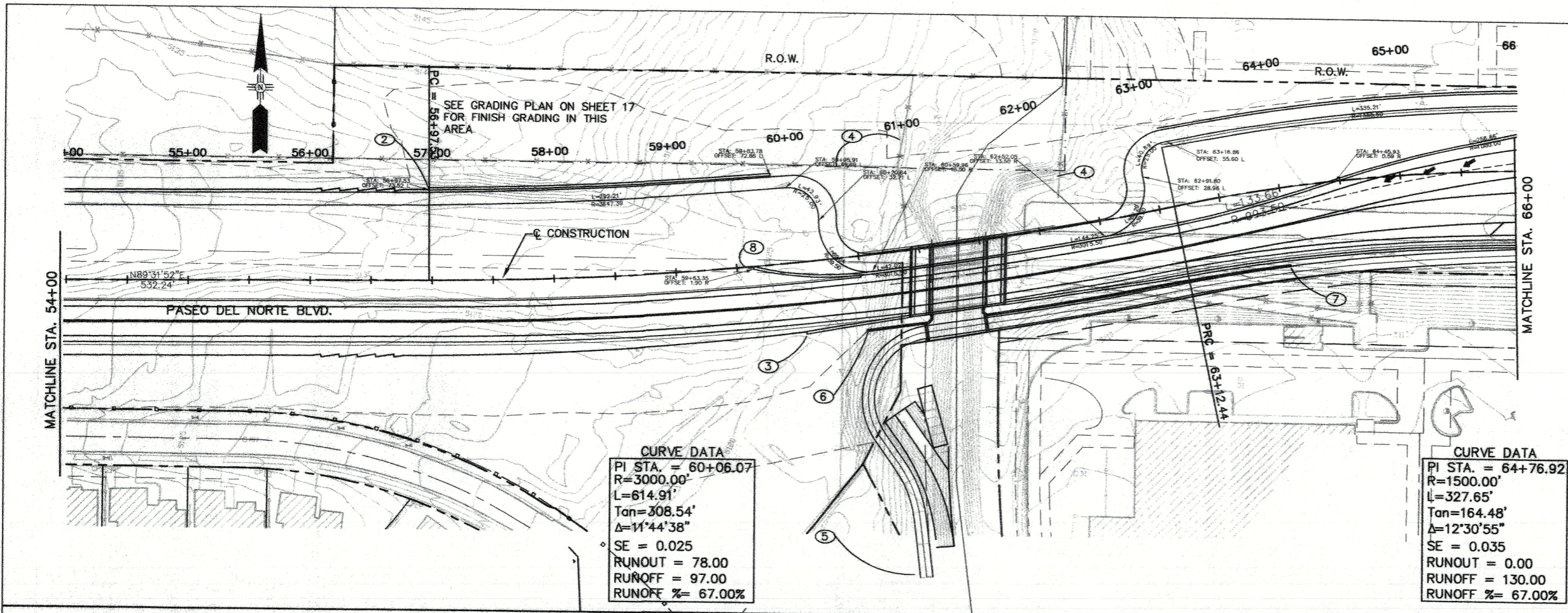
**KEYED NOTES:**

- ① STA. 43+84.02 BEGIN MEDIAN C&G, STANDARD C&G RT.
- ② STA. 43+84.02, 61.52' RT. & 73.6' LT. BEGIN RETAINING WALLS LT. & RT. SEE WALL SHEETS FOR DETAILS

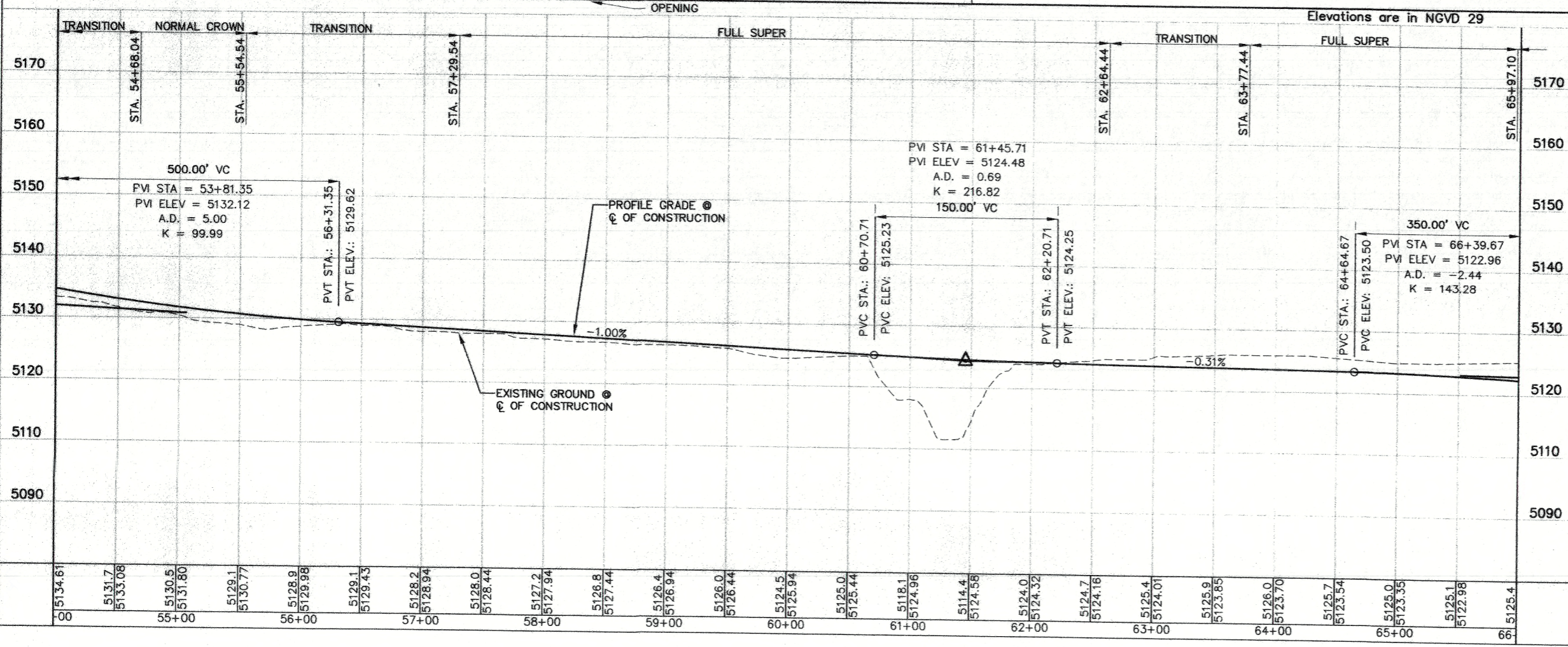


**UTILITY CONTACTS**  
 PNM ELECTRIC SERVICES - MARK BOUCHARD: (505) 241-3402  
 PNM GAS SERVICES - JEFF ROMANOWSKI: (505) 241-7703  
 QWEST COMMUNICATIONS - ROSARITO KNIFFIN: (505) 245-6374  
 COMCAST CABLE - RITA ERICKSON: (505) 761-6235  
 NEW MEXICO UTILITIES - BOB GAY: (505) 898-2661

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	WORK BY	ACS 3 1/8" Aluminum Cap stamped "ACS 1-C1"	INSPECTOR'S ACCEPTANCE BY	DATE	NO.	DATE	NO.
DATE	DATE	Near intersection of Ridgeway Dr. & Calle Nortena	VERIFICATION BY	DATE	REMARKS	DESIGN	11-17-05
DATE	DATE	N.M. State Plane Coordinates (Central Zone)	DATE	DATE	DESIGNED BY	DGS	11/16/05
DATE	DATE	X=266,041.86, Y=1,519,125.33	DATE	DATE	DRAWN BY	DGS	11/16/05
DATE	DATE	Elevation=5272.34 NGVD29, in feet	DATE	DATE	CHECKED BY	DGB	11/16/05
MICRO-FILM INFORMATION		ENGINEER'S SEAL		CITY OF ALBUQUERQUE		DEPARTMENT OF MUNICIPAL DEVELOPMENT	
RECORDED BY	NO.	DAVID G. BRANES		TRANSPORTATION DIVISION		PASEO DEL NORTE EXTENSION	
		REGISTERED PROFESSIONAL ENGINEER				PLAN AND PROFILE	
		NO. DATE		CITY ENGINEER APPROVAL		MO./DAY/YR.	
				APPROVED			
				DEC 1 2 2005			
				DESIGN REVIEW COMMITTEE			
				CITY ENGINEER			
				City Project No.		Zone Map No.	
				COA 704902		C - 11	
				Sheet		Of	
				11		116	



- KEYED NOTES:**
- ① NOT USED
  - ② STA. 56+97.53, 73.6' LT. END RETAINING WALL BEGIN CONCRETE WALL BARRIER
  - ③ STA. 60+00.00, 61.62' RT. END RETAINING WALL BEGIN CONCRETE WALL BARRIER
  - ④ REMOVE EXISTING FENCE
  - ⑤ STA. 60+72.99, 266.49' RT. BEGIN RECREATIONAL TRAIL SEE SHEET 14
  - ⑥ STA. 60+50.00, 61.35' RT. BEGIN MSE WALL SEE WALL SHEETS FOR DETAILS
  - ⑦ STA. 64+01.71, 63.13' RT. END MSE WALL SEE WALL SHEETS FOR DETAILS BEGIN CONCRETE WALL BARRIER
  - ⑧ STA. 59+63.85, 1.90' RT. BEGIN CWB



**AS BUILT INFORMATION**

CONTRACTOR	DATE
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	

**BENCH MARKS**

CONTRACTOR	DATE
Near Intersection of Ridgeway Dr. & Calle Norteno	
INSPECTOR	DATE
Geographic Position (NAD 27), in feet	
PERFORMED BY	DATE
N.M. State Plane Coordinates (Central Zone)	
APPROVED BY	DATE
X=366,041.86, Y=1,519,125.33	
CONTRACT NO.	DATE
Elevation=5272.34 NGVD29, in feet	

**MICRO-FILM INFORMATION**

RECORDED BY	DATE

**ENGINEER'S SEAL**

DAVID G. BRANER  
 CIVIL ENGINEER  
 LICENSE NO. 1091

**DESIGN**

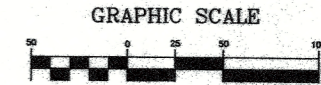
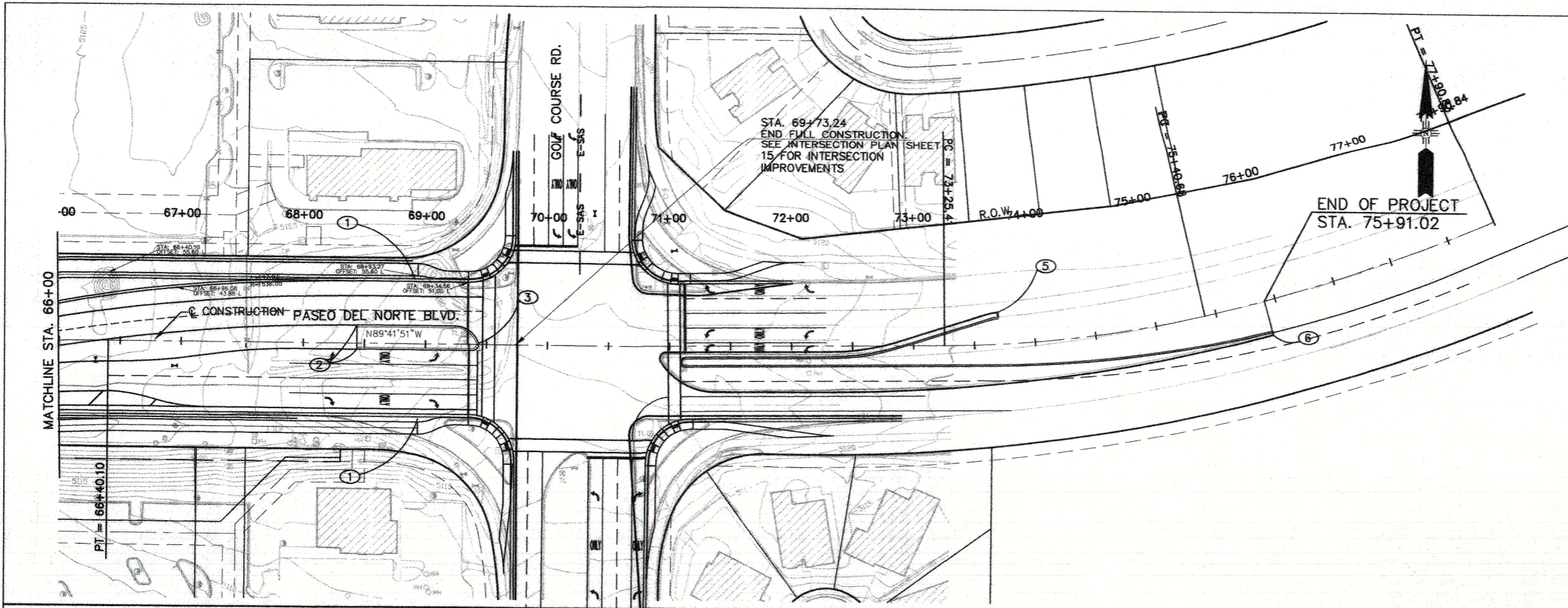
NO.	DATE	REMARKS	BY
	11/16/05	DESIGN	DGS
	11/16/05		DGS
	11/16/05		DGS

**CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT TRANSPORTATION DIVISION**

**PASEO DEL NORTE EXTENSION PLAN AND PROFILE**

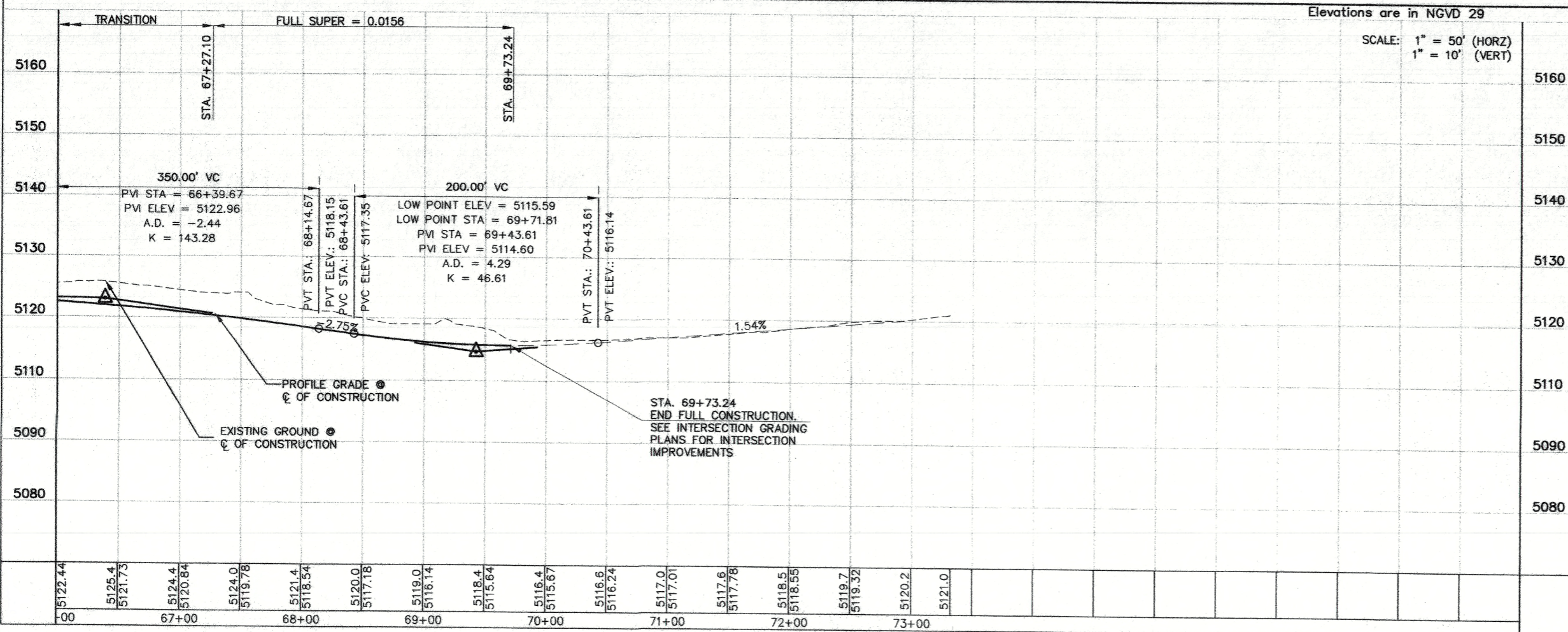
DESIGN REVIEW COMMITTEE: APPROVED DEC 1 2 2005  
 CITY ENGINEER APPROVAL: APPROVED DEC 1 2 2005

City Project No. COA 704902    Zone Map No. C - 11    Sheet 12 Of 116



**KEYED NOTES:**

- ① STA. 68+88.80  
END CONCRETE WALL BARRIER,  
LT. & RT.
- ② STA. 68+43.77, 5' RT., 15.50 LT.  
BEGIN MEDIAN CURB & GUTTER
- ③ STA. 69+42.55  
END MEDIAN CURB & GUTTER
- ④ STA. 71+09.92, 12.99' RT.  
END ASPHALT CURB.
- ⑤ STA. 73+70.54, 22.35' LT.  
END ASPHALT MEDIAN CURB &  
GUTTER
- ⑥ STA. 75+71.02, 25.50' RT.  
END ASPHALT MEDIAN CURB &  
GUTTER



**AS BUILT INFORMATION**

CONTRACTOR	DATE
WORK SUPERVISOR	DATE
INSPECTOR'S NAME	DATE
FIELD ENGINEER	DATE
DATE	DATE
DATE	DATE
DATE	DATE

**BENCH MARKS**

ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	DATE
Near Intersection of Ridgeway Dr. & Calle Nortena	DATE
Geographic Position (NAD 27), in feet	DATE
N.M. State Plane Coordinates (Central Zone)	DATE
X=366,041.86, Y=1,519,125.33	DATE
Elevation=5272.34 NGVD29, in feet.	DATE

**SURVEY INFORMATION**

NO.	BY	DATE

**ENGINEER'S SEAL**

DAVID G. BRANER  
NEW MEXICO  
REGISTERED PROFESSIONAL ENGINEER

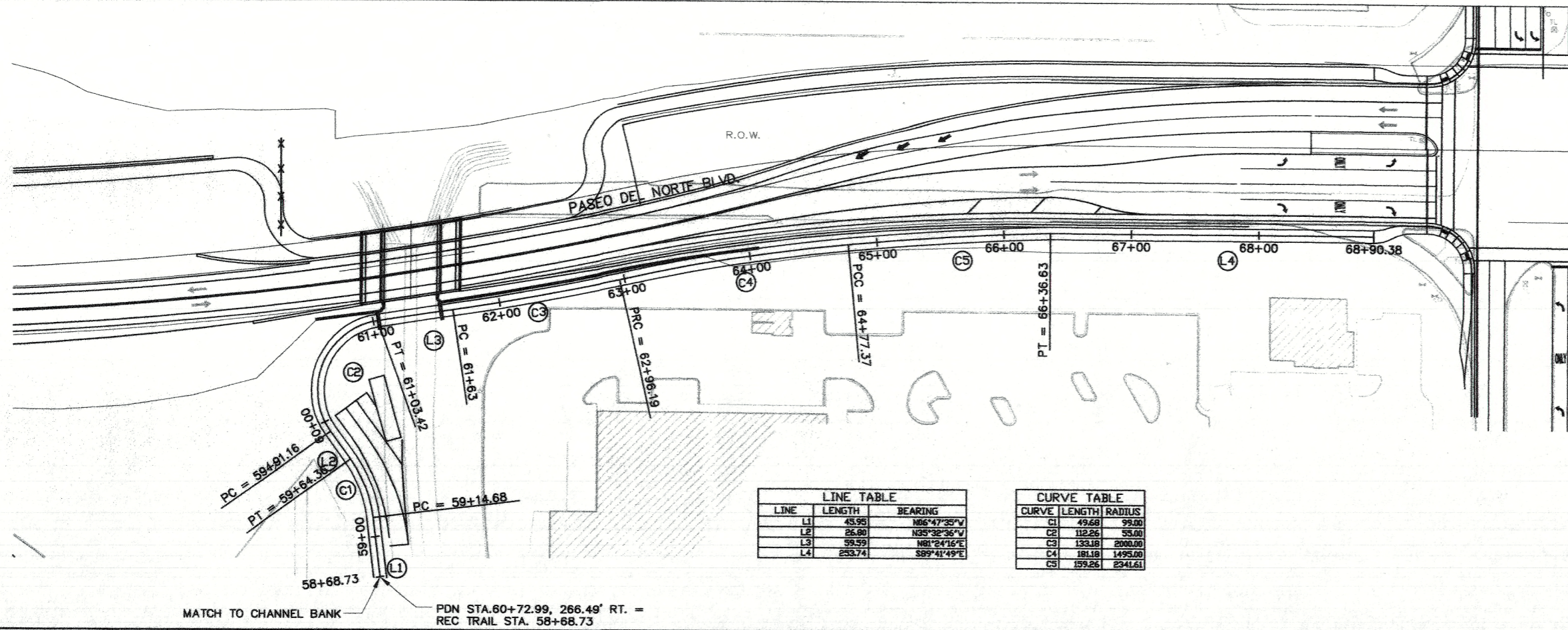
NO.	DATE

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

**PASEO DEL NORTE EXTENSION  
PLAN AND PROFILE**

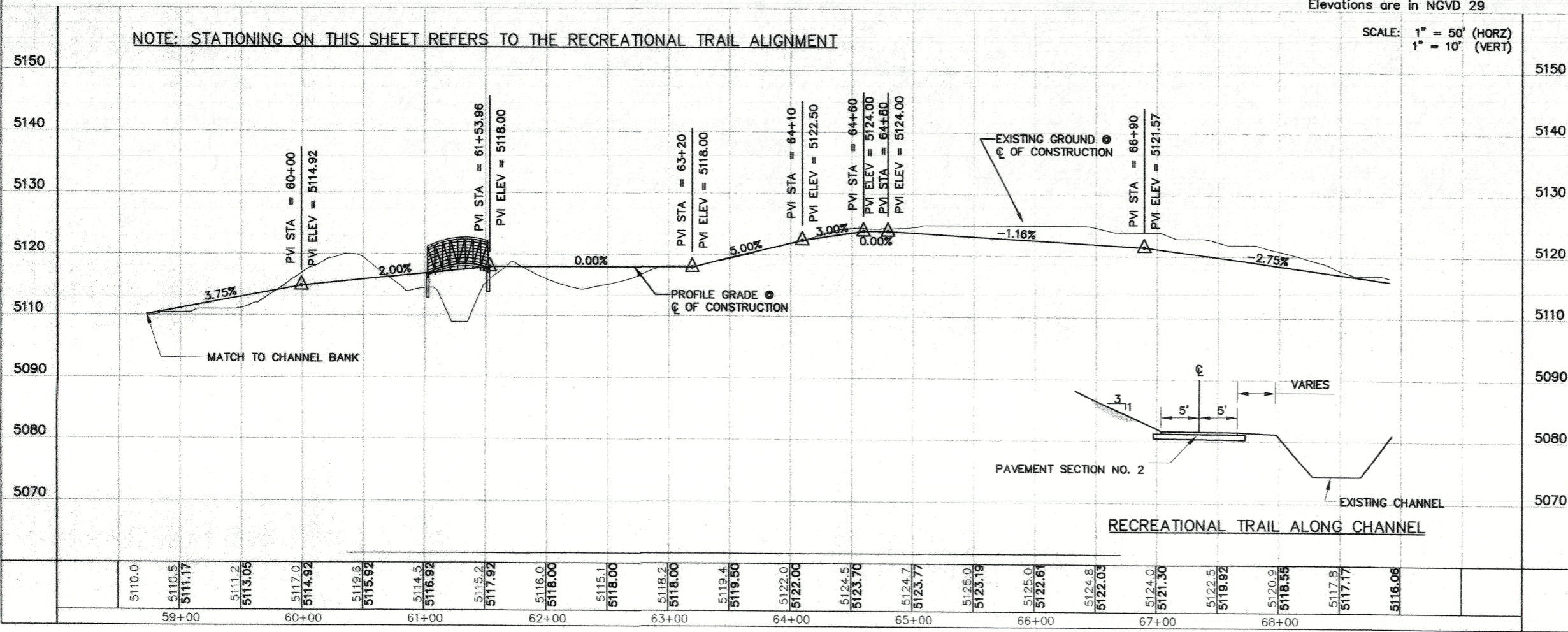
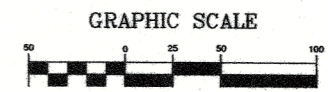
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DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 13      Of 116



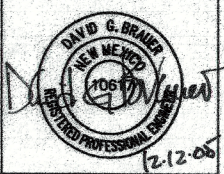
LINE TABLE		
LINE	LENGTH	BEARING
L1	45.95	N66°47'35"V
L2	26.80	N35°32'36"V
L3	39.59	N81°24'16"E
L4	23.74	S89°41'49"E

CURVE TABLE		
CURVE	LENGTH	RADIUS
C1	49.68	99.00
C2	112.26	55.00
C3	135.18	2000.00
C4	181.18	1495.00
C5	159.26	2341.61



SURVEY INFORMATION		FIELD NOTES	
NO.	BY	NO.	BY

ENGINEER'S SEAL		REMARKS	
NO.	DATE	BY	DATE



CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
**RECREATIONAL TRAIL PLAN AND PROFILE**

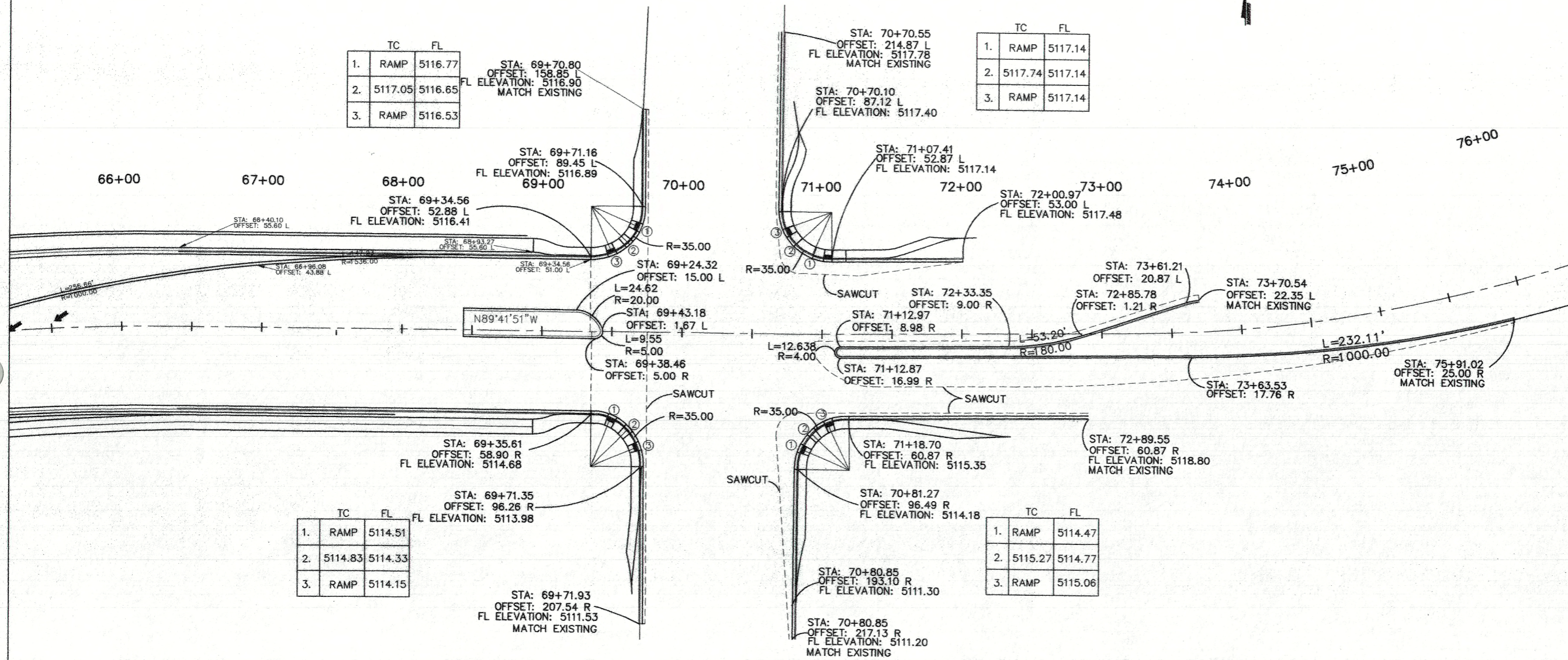
DESIGN REVIEW COMMITTEE APPROVAL DEC 1 2 2005	CITY ENGINEER APPROVAL DEC 1 2 2005	MO./DAY/YR.	MO./DAY/YR.
--	--	-------------	-------------

City Project No. COA 704902      Zone Map No. C - 11      Sheet 14 Of 116



**NOTES**

- EXISTING UTILITIES ARE SHOWN ON SHEET 22.
- CONTRACTOR TO ADJUST MAN HOLES AND VALVE BOXES TO FINISHED GRADE.



	TC	FL
1.	RAMP	5116.77
2.	5117.05	5116.65
3.	RAMP	5116.53

	TC	FL
1.	RAMP	5117.14
2.	5117.74	5117.14
3.	RAMP	5117.14

	TC	FL
1.	RAMP	5114.51
2.	5114.83	5114.33
3.	RAMP	5114.15

	TC	FL
1.	RAMP	5114.47
2.	5115.27	5114.77
3.	RAMP	5115.06

AS BUILT INFORMATION	
CONTRACTOR	WORK
DATE	DATE
INSPECTOR	DATE
FIELD ENGINEER	DATE
REVISIONS BY	DATE
APPROVED BY	DATE
CHECKED BY	DATE
RECORDED BY	DATE
NO.	NO.

BENCH MARKS	
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	
Near Intersection of Ridgeway Dr. & Calle Nortena	
Geographic Position (NAD 27), in feet	
N.M. State Plane Coordinates (Central Zone)	
X=966,041.86, Y=1,919,125.33	
Elevation=5272.34 NGVD29, in feet	

SURVEY INFORMATION	
DATE	DATE
BY	BY
NO.	NO.

ENGINEER'S SEAL	
DAVID G. BRANES	11-16-05
NEW MEXICO	
REGISTERED PROFESSIONAL ENGINEER	

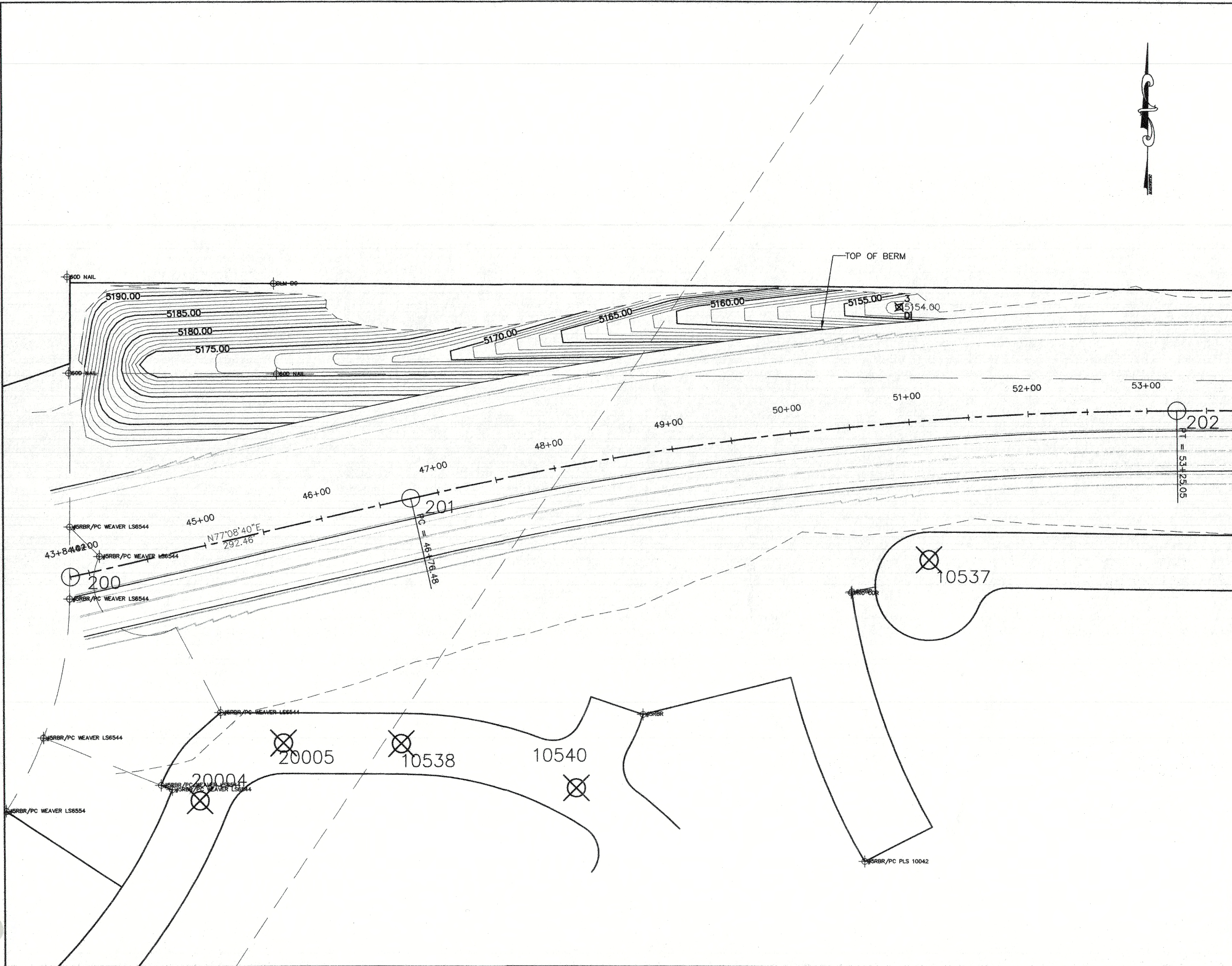
NO.	DATE	REMARKS	BY	DATE
		DESIGN		

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
INTERSECTION PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED DEC 12 2005	APPROVED DEC 12 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 15      Of 116



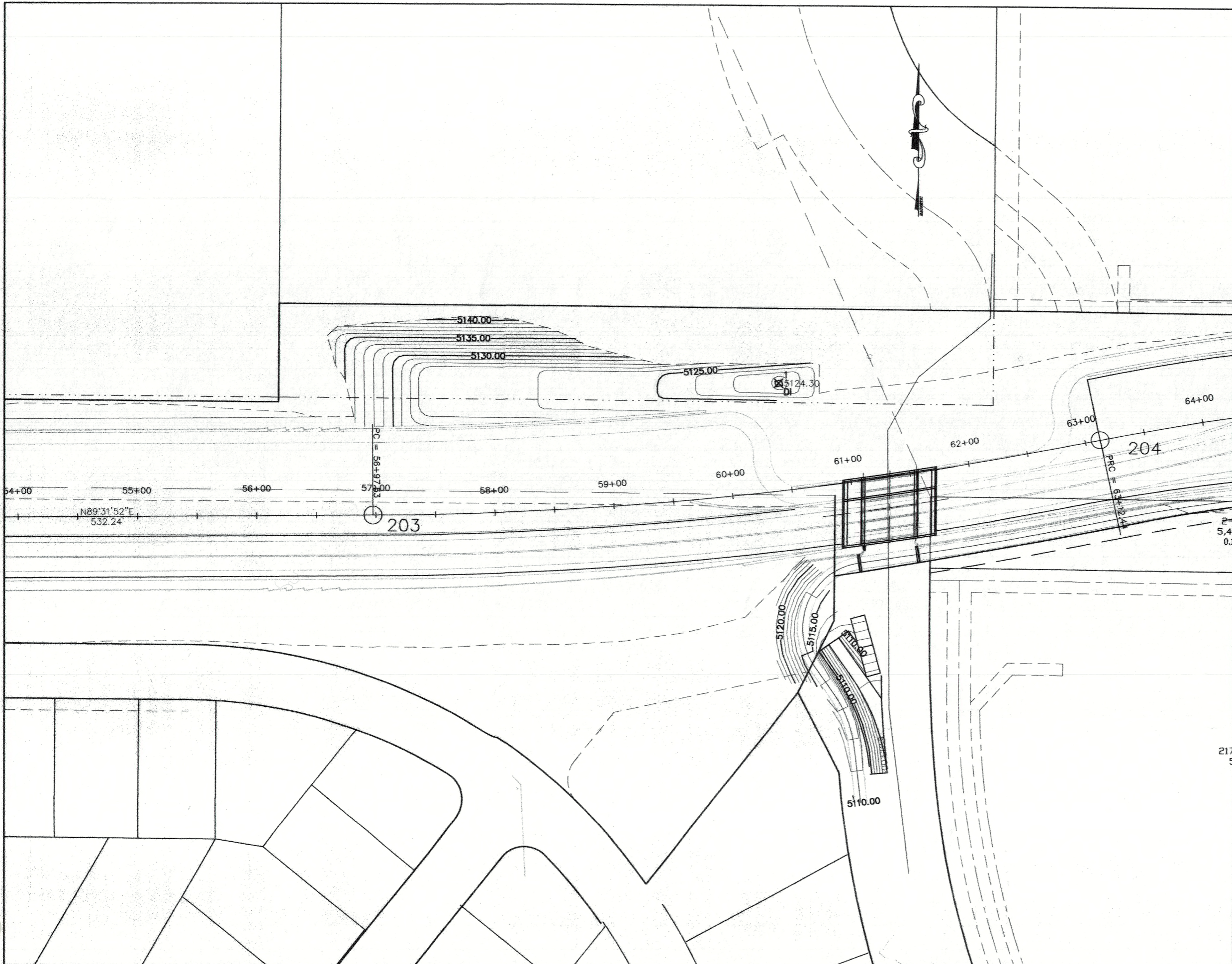
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	NEAR INTERSECTION OF RIDGWAY DR. & CALLE NORTENO	FIELD NOTES	NO.		REMARKS
WORKED BY	DATE	Geographic Position (NAD 27), in feet	Near Intersection of Ridgeway Dr. & Calle Norteno	BY	DATE		DESIGN
INSPECTOR'S ACCEPTANCE BY	DATE	N.M. State Plane Coordinates (Central Zone)	Elevation=5272.34, NGVD29, in feet	CHECKED BY	DATE	DRAWN BY	CHECKED BY
VERIFY/SCALE BY	DATE						
CONTRACTOR	DATE						

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

**PASEO DEL NORTE EXTENSION  
GRADING PLAN**

		MO./DAY/YR.	MO./DAY/YR.
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

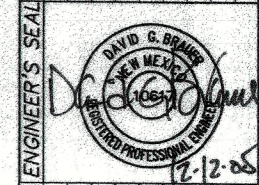
City Project No. COA 704902      Zone Map No. C - 11      Sheet 16      Of 116



AS BUILT INFORMATION	
CONTRACTOR	NO.
DATE	DATE
DESIGNED BY	DATE
CHECKED BY	DATE
DRAWN BY	DATE
RECORDED BY	DATE

**BENCH MARKS**  
 ACS 3 1/4" Aluminum Cap stamped "ACS 1-011"  
 Near Intersection of Ridgeway Dr. & Calle Nortena  
 Geographic Position (NAD 27), in feet  
 N.M. State Plane Coordinates (Central Zone)  
 X=366,041.88, Y=1,519,125.33  
 Elevation=5272.34 NOVD29, in feet

SURVEY INFORMATION	
FIELD NOTES	NO.
DATE	DATE



NO.	DATE	REMARKS	BY

CITY OF ALBUQUERQUE  
 DEPARTMENT OF MUNICIPAL DEVELOPMENT  
 TRANSPORTATION DIVISION

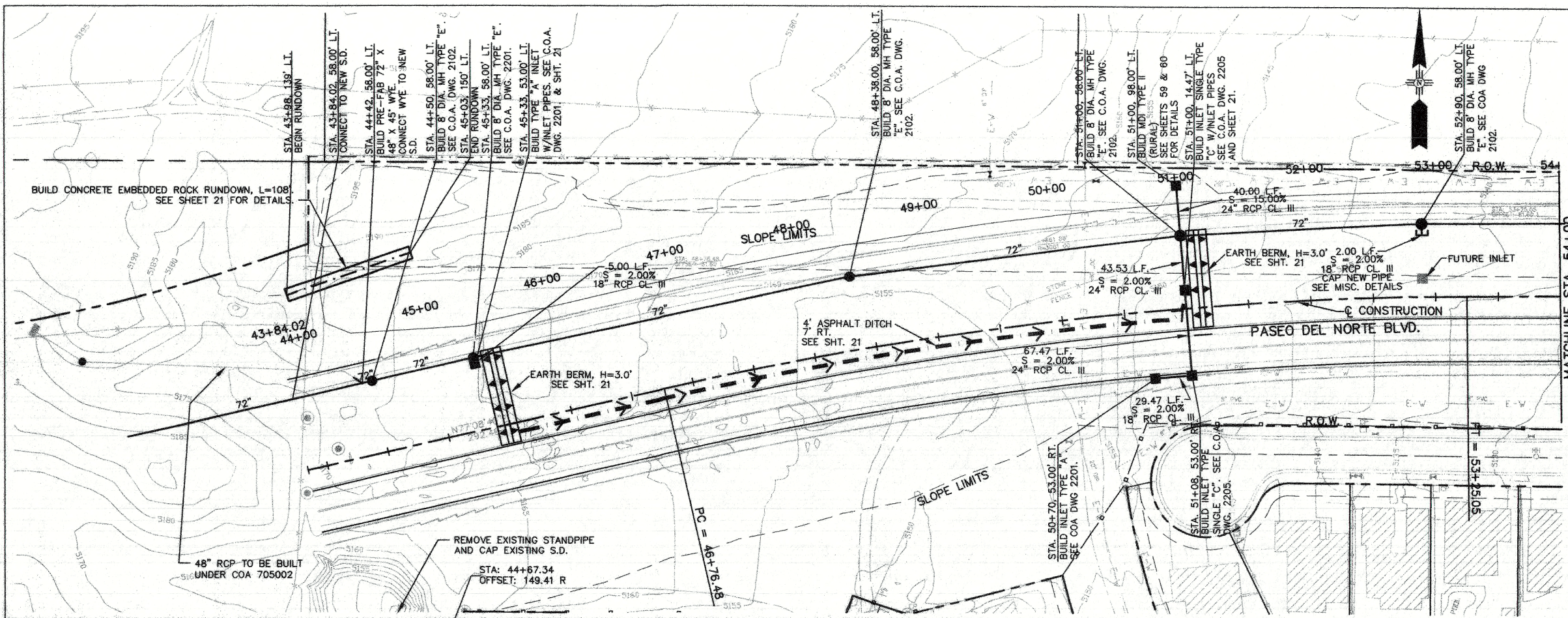
**PASEO DEL NORTE EXTENSION  
 PROPOSED GRADING PLAN**

DESIGN REVIEW COMMITTEE  
**APPROVED**  
 DEC 1 2 2005  
 DESIGN REVIEW COMMITTEE

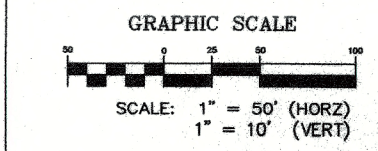
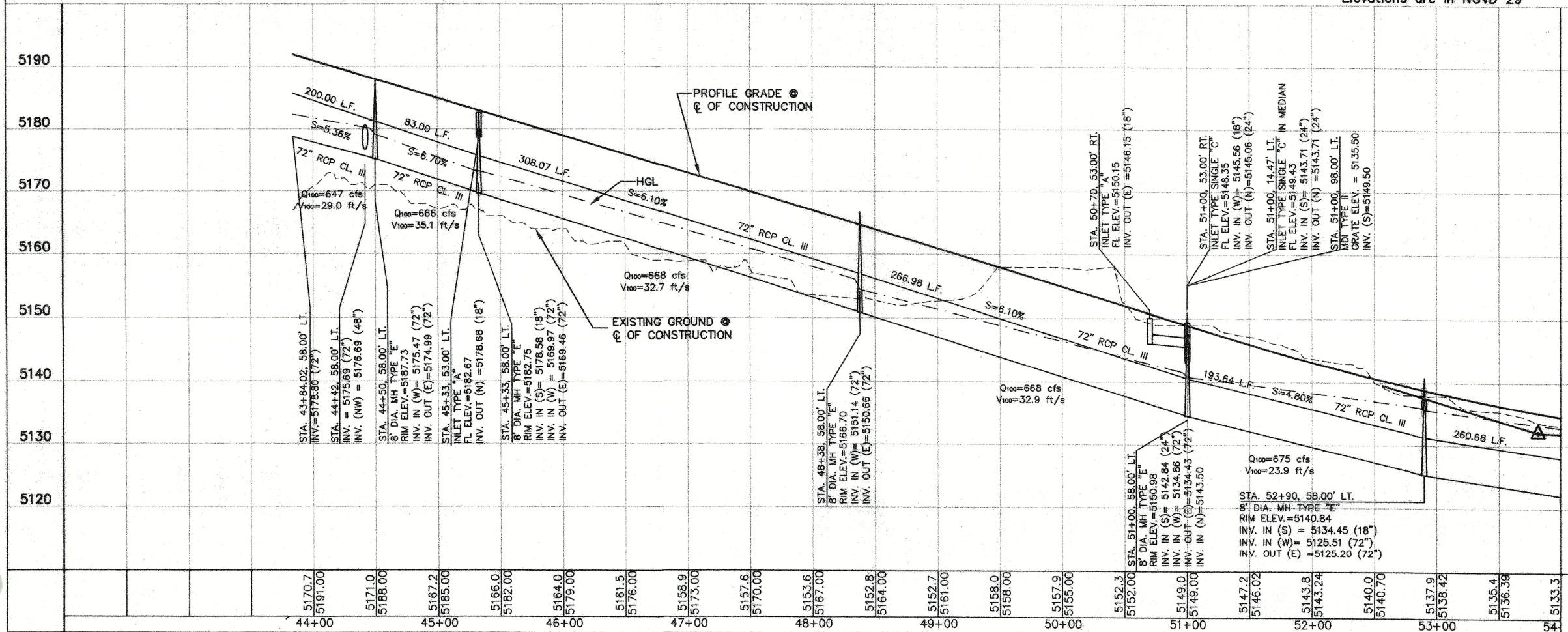
CITY ENGINEER APPROVAL  
**APPROVED**  
 DEC 1 2 2005  
 CITY ENGINEER

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

City Project No. COA 704902      Zone Map No. C - 11      Sheet 17 Of 116



Elevations are in NGVD 29



- GENERAL NOTES:
1. LINE LENGTHS ARE COMPUTED FROM  $\phi$  TO  $\phi$  OF STRUCTURE ALONG THE HORIZONTAL.
  2. SLOPES ARE COMPUTED  $\phi$  TO  $\phi$ .
  3. INLET FLOWLINE ELEVATIONS ARE AT NORMAL CURB FLOWLINE.
  4. CONTRACTOR IS TO VERIFY EXSITING UTILITY LOCATIONS PRIOR TO STORM DRAIN CONSTRUCTION. IF A CONFLICT EXISTS, THE CONTRACTOR SHALL NOTIFY THE P.M. FOR DIRECTION.
  5. STA. 44+67.34, 149.41' RT: EXTEND MANHOLE 6' TO MATCH FINISHED SLOPE.

AS BUILT INFORMATION	
CONTRACTOR	ACCS 3 1/4" Aluminum Cap stamped "ACS 1-C11"
DATE	Near Intersection of Ridgeway Dr. & Calle Nortena
INSPECTOR'S	Geographic Position (NAD 27), in feet
DATE	N.M. State Plane Coordinates (Central Zone)
DATE	X=366,041.88, Y=1,519,125.33
DATE	Drawn by: [Name]
DATE	Checked by: [Name]
DATE	Micro-Film Information
DATE	Recorded by: [Name]
DATE	No. [ ]

SURVEY INFORMATION	
FIELD NOTES	NO. [ ]
BY	[ ]
DATE	[ ]

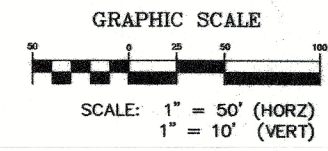
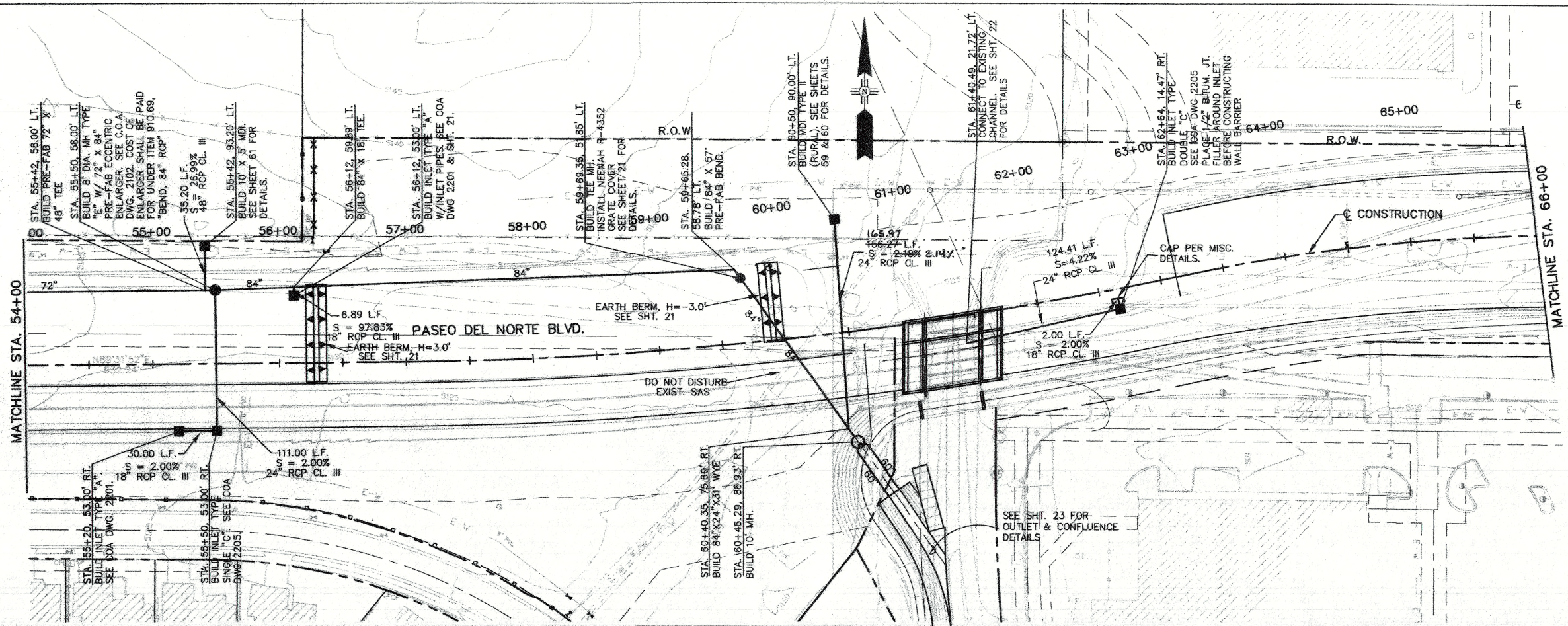
ENGINEER'S SEAL	
NO.	DATE
DATE	DATE
DATE	DATE

CITY OF ALBUQUERQUE  
 DEPARTMENT OF MUNICIPAL DEVELOPMENT  
 TRANSPORTATION DIVISION

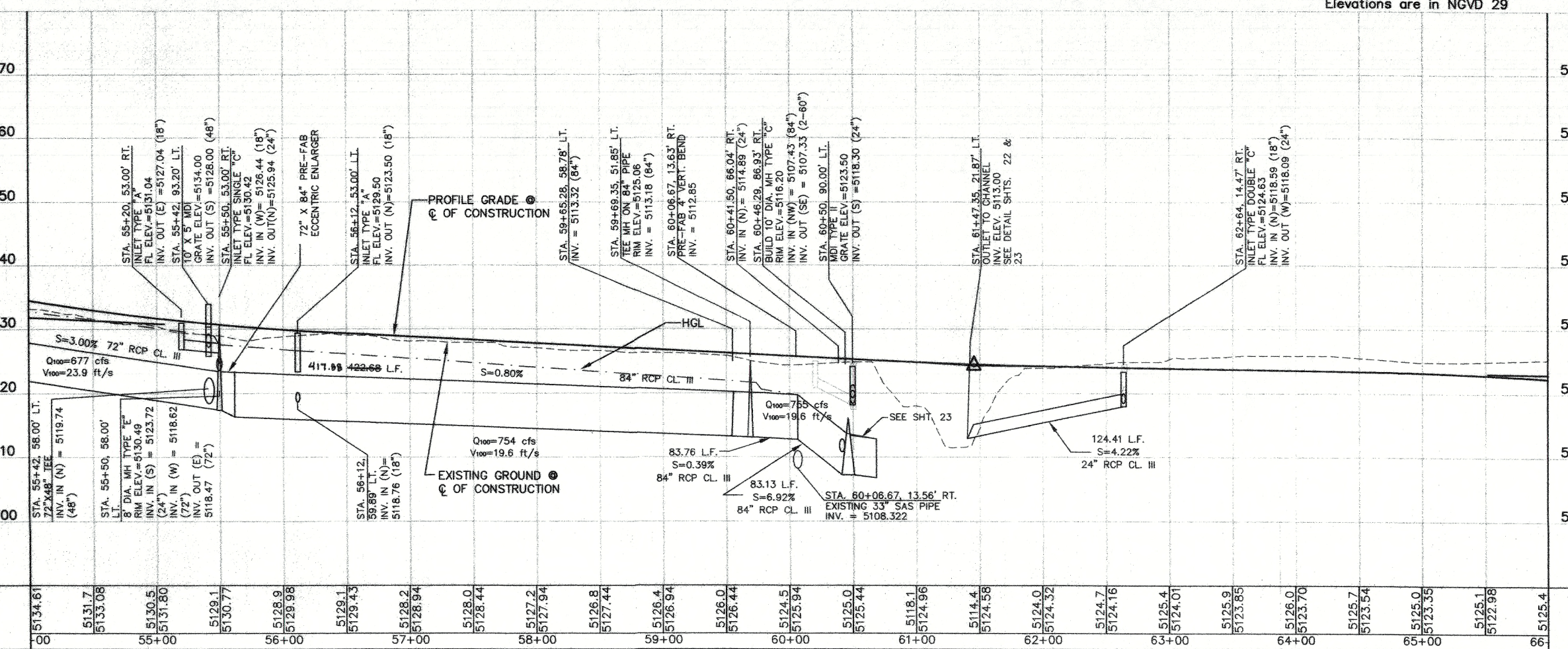
**PASEO DEL NORTE EXTENSION  
 DRAINAGE PLAN AND PROFILE**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVE DEC 1 2 2005	APPROVE DEC 1 2 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 18 Of 116



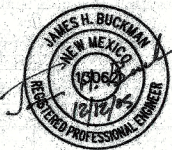
- GENERAL NOTES:
1. LINE LENGTHS ARE COMPUTED FROM Q TO Q OF STRUCTURE ALONG THE HORIZONTAL.
  2. SLOPES ARE COMPUTED Q TO Q.
  3. INLET FLOWLINE ELEVATIONS ARE AT NORMAL CURB FLOWLINE.
  4. CONTRACTOR IS TO VERIFY EXISTING UTILITY LOCATIONS PRIOR TO STORM DRAIN CONSTRUCTION. IF A CONFLICT EXISTS, THE CONTRACTOR SHALL NOTIFY THE P.M. FOR DIRECTION.



Elevations are in NGVD 29

AS BUILT INFORMATION	
CONTRACTOR	ACIS 3 1/4" Aluminum Cap stamped "ACIS 1-C11"
WORKED BY	Near Intersection of Ridgeway Dr. & Cais Northend
INSPECTOR'S APPROVAL BY	Geographic Position (NAD 27), in feet
DATE	N.M. State Plane Coordinates (Central Zone)
DATE	X=866,041.86, Y=1,515,125.33
DATE	Elevation=8272.34, NGVD28, in feet
DATE	RECORDED BY
DATE	NO.

ENGINEER'S SEAL	
NO. DATE	REMARKS
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE

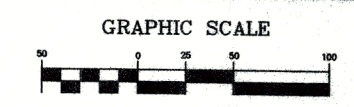
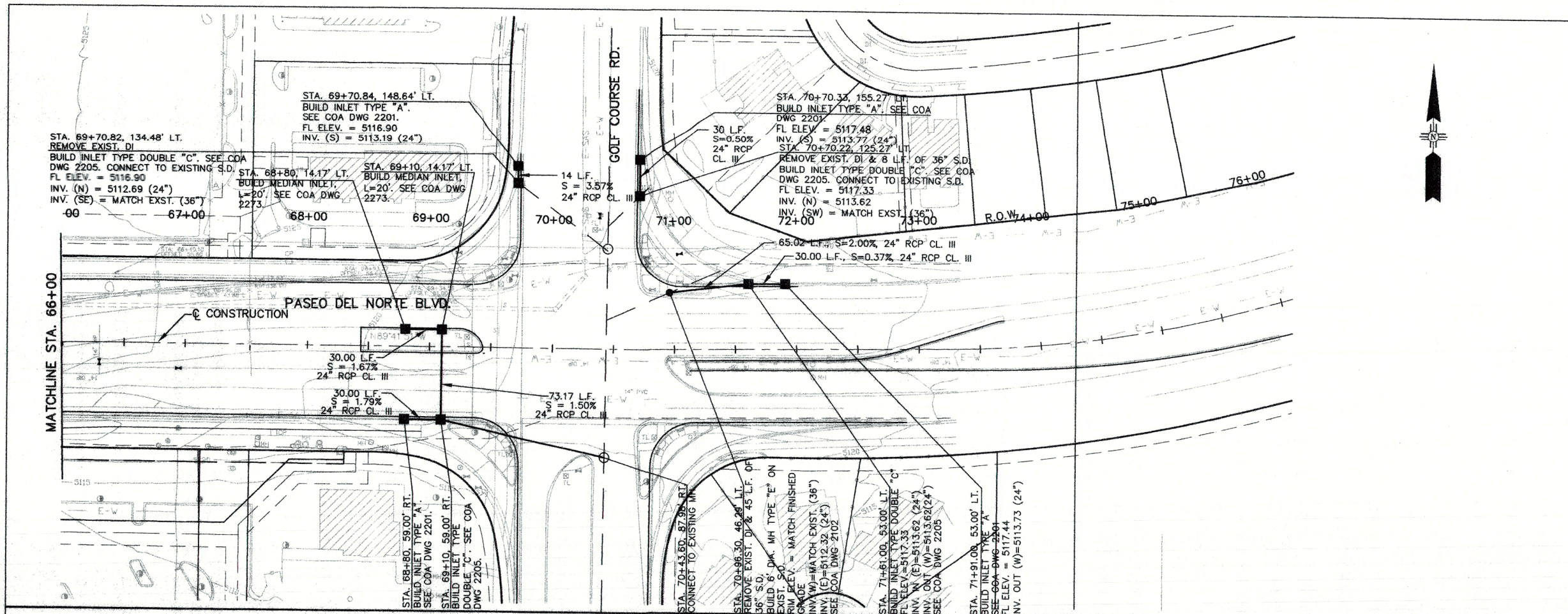


CITY OF ALBUQUERQUE  
 DEPARTMENT OF MUNICIPAL DEVELOPMENT  
 TRANSPORTATION DIVISION

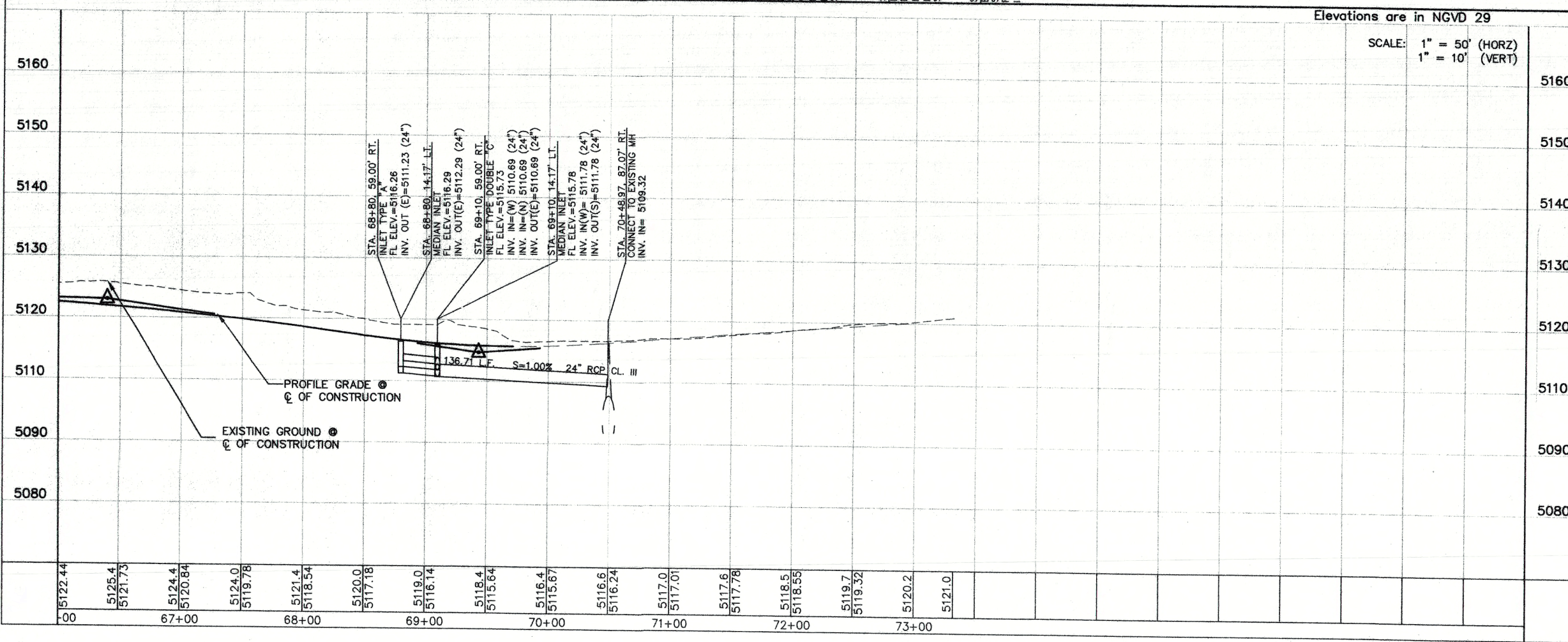
PASEO DEL NORTE EXTENSION  
 DRAINAGE PLAN AND PROFILE

DESIGN REVIEW COMMITTEE: DEC 1 2 2005  
 CITY ENGINEER APPROVAL: DEC 1 2 2005

City Project No. COA 704902      Zone Map No. C - 11      Sheet 19 Of 116

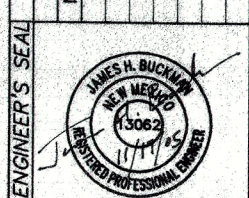


- GENERAL NOTES:**
1. LINE LENGTHS ARE COMPUTED FROM  $\phi$  TO  $\phi$  OF STRUCTURE ALONG THE HORIZONTAL.
  2. SLOPES ARE COMPUTED  $\phi$  TO  $\phi$
  3. INLET FLOWLINE ELEVATIONS ARE AT NORMAL CURB FLOWLINE.
  4. CONTRACTOR IS TO VERIFY EXISTING UTILITY LOCATIONS PRIOR TO STORM DRAIN CONSTRUCTION. IF A CONFLICT EXISTS, THE CONTRACTOR SHALL NOTIFY THE P.M. FOR DIRECTION.



Elevations are in NGVD 29  
SCALE: 1" = 50' (HORZ)  
1" = 10' (VERT)

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	DATE	CONTRACTOR	WORK	DATE	NO.
		ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"			
		Near Intersection of Ridgeway Dr. & Calle Martena			
		Geographic Position (NAD 27), in feet			
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		Elevation=5272.34 NGVD29, in feet			



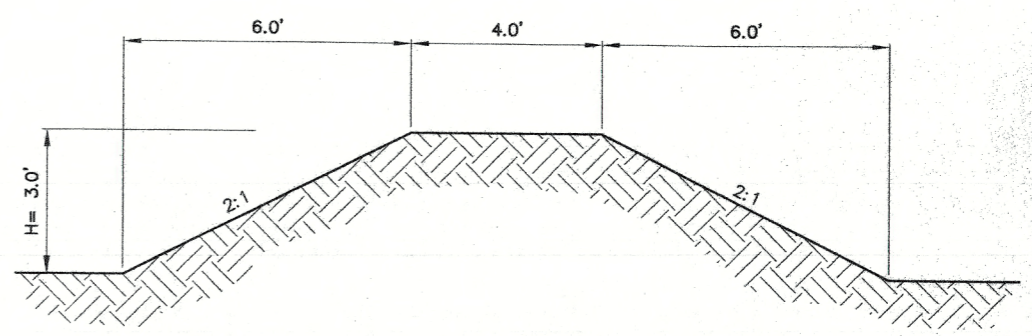
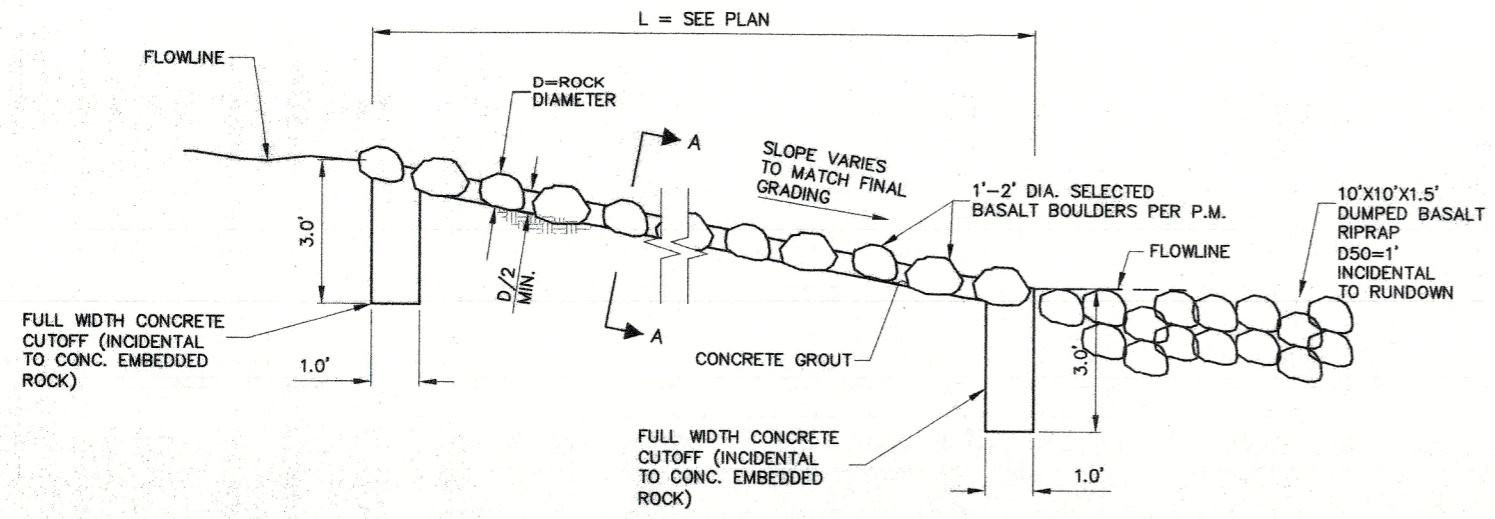
NO.	DATE	REMARKS	BY
		DESIGN	
	11/16/05	DESIGNED BY	DGS
	11/16/05	DRAWN BY	DGS
	11/16/05	CHECKED BY	DGS

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

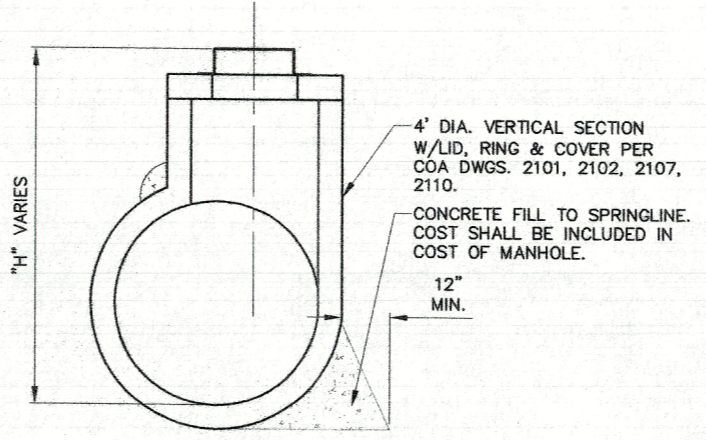
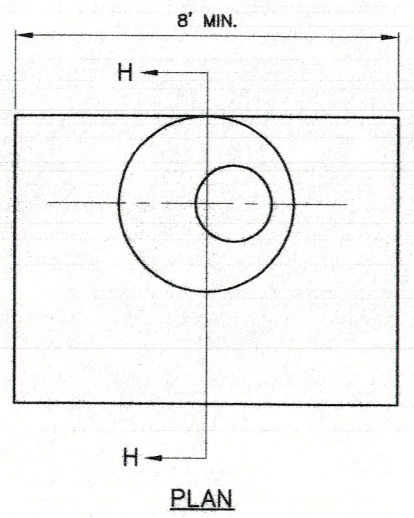
PASEO DEL NORTE EXTENSION  
**DRAINAGE PLAN AND PROFILE**

DESIGN REVIEW COMMITTEE: DEC 1 2 2005  
CITY ENGINEER APPROVAL: DEC 1 2 2005

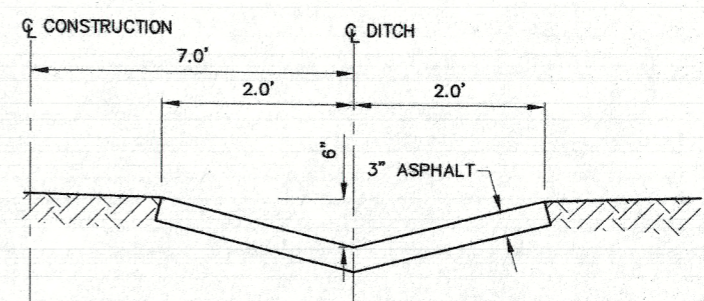
City Project No. COA 704902    Zone Map No. C - 11    Sheet 20 of 116



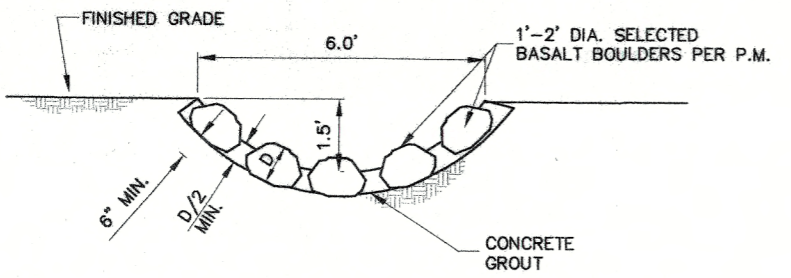
CONCRETE EMBEDDED ROCK RUNDOWN PROFILE



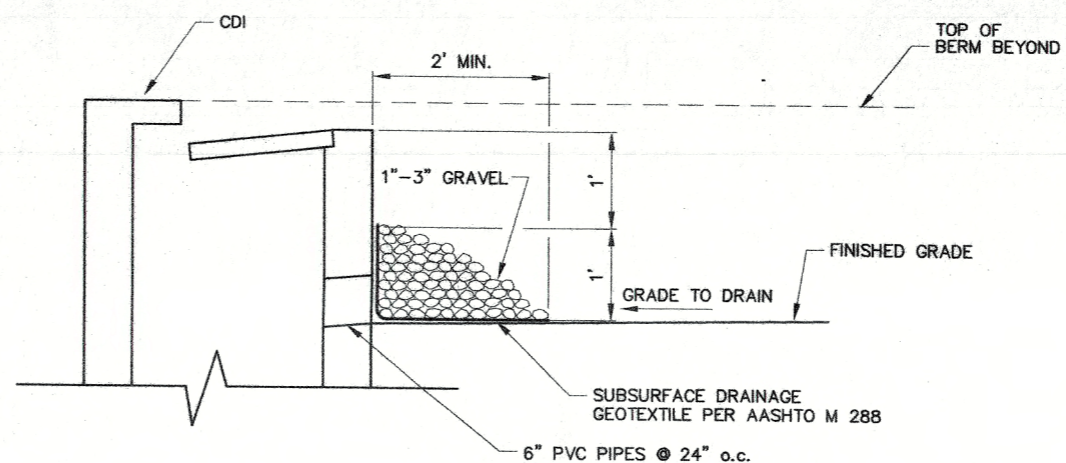
SECTION H-H  
PRECAST TEE PIPE MANHOLE



ASPHALT DITCH

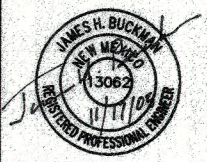


SECTION A-A



CDI W/INLET PIPES DETAIL  
SECTION THROUGH INLET

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	WORK	CONTRACTOR	DATE	NO.	BY	NO.	DATE
INSPECTOR'S	DATE	INSPECTOR'S	DATE	NO.	BY	NO.	DATE
FIELD	DATE	FIELD	DATE	NO.	BY	NO.	DATE
CORRECTED BY	DATE	CORRECTED BY	DATE	NO.	BY	NO.	DATE
RECORDED BY	DATE	RECORDED BY	DATE	NO.	BY	NO.	DATE
NO.		NO.		NO.		NO.	
MICRO-FILM INFORMATION		MICRO-FILM INFORMATION		MICRO-FILM INFORMATION		MICRO-FILM INFORMATION	
CONTRACTOR	NO.	CONTRACTOR	NO.	CONTRACTOR	NO.	CONTRACTOR	NO.
NO.		NO.		NO.		NO.	

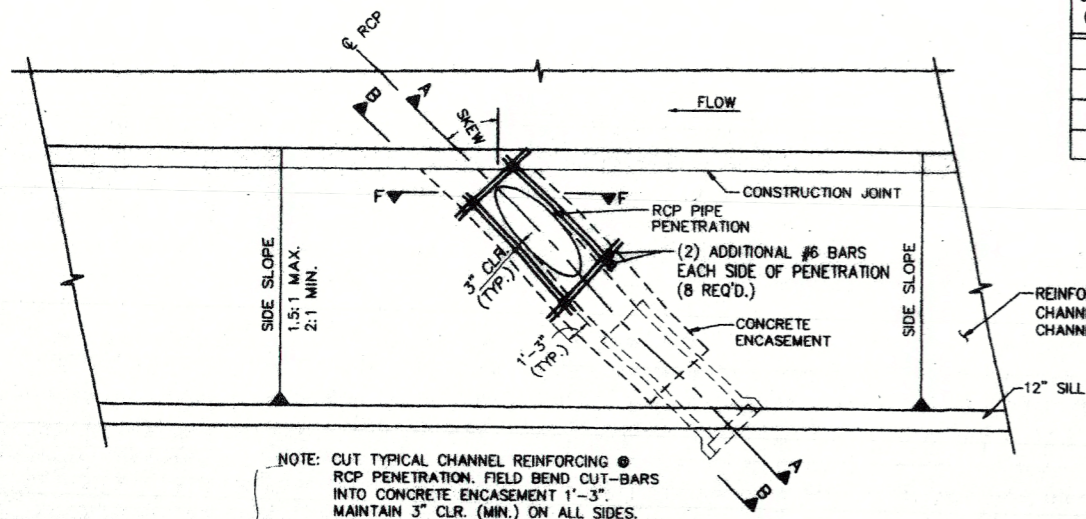


CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
DRAINAGE DETAILS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	NO./DAY/YR.	NO./DAY/YR.
APPROVED DEC 1 2 2005	APPROVED DEC 1 2 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 21      Of 116



SKEW ANGLE (DEGREES)	DIMENSION "A" FOR 1.5:1 SIDE SLOPE							
	PIPE DIAMETER (INCHES)							
0-10	4'-9"	5'-6"	6'-3"	7'-0"	7'-10"	8'-7"	9'-4"	10'-10"
>10-20	4'-11"	5'-8"	6'-5"	7'-3"	8'-1"	8'-11"	9'-8"	11'-3"
>20-30	5'-2"	6'-0"	6'-11"	7'-9"	8'-7"	9'-6"	10'-4"	12'-1"
>30-45	5'-11"	7'-0"	8'-1"	9'-2"	10'-2"	11'-3"	12'-4"	14'-5"

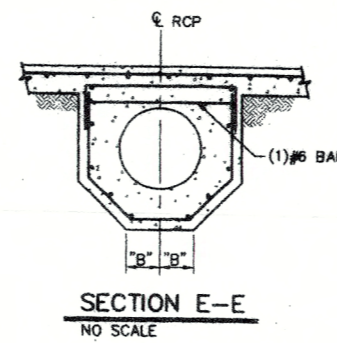
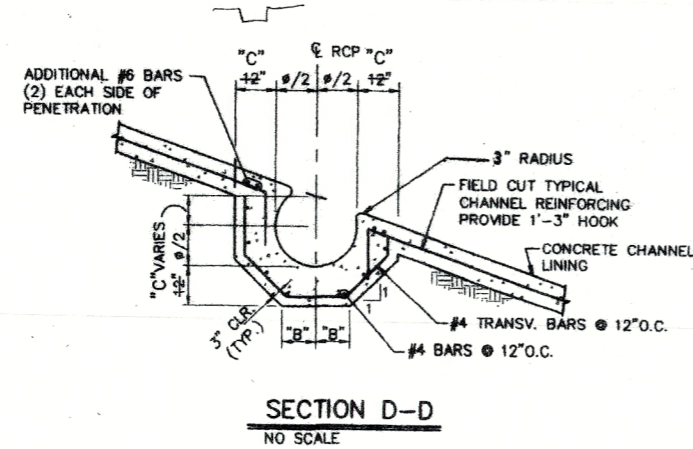
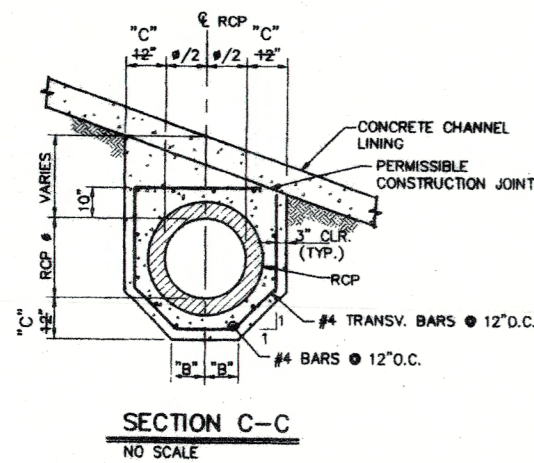
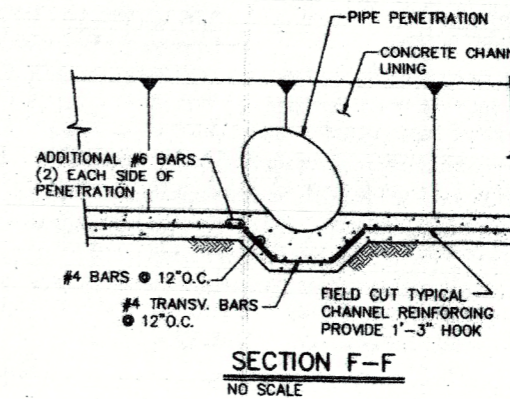
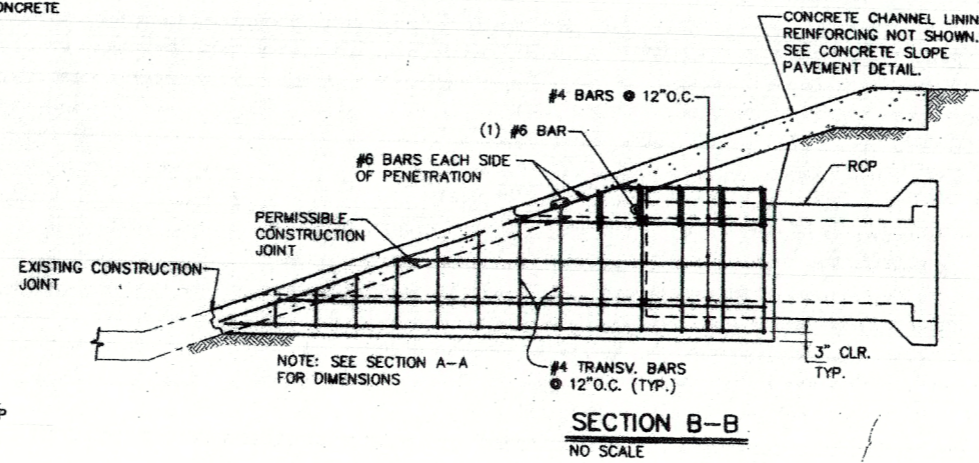
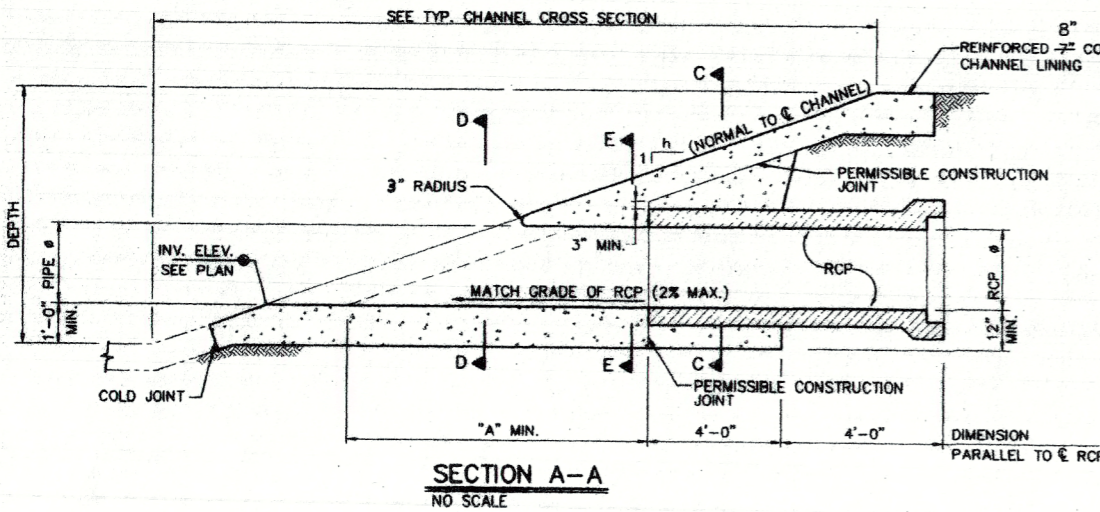
SKEW ANGLE (DEGREES)	DIMENSION "A" FOR 2:1 SIDE SLOPE								
	PIPE DIAMETER (INCHES)								
0-10	5'-9"	6'-9"	7'-10"	8'-10"	9'-10"	10'-10"	11'-11"	13'-11"	---
>10-20	5'-11"	7'-0"	8'-1"	9'-2"	10'-3"	11'-3"	12'-4"	14'-6"	---
>20-30	6'-4"	7'-6"	8'-7"	9'-9"	10'-11"	12'-1"	13'-3"	15'-7"	---
>30-45	7'-4"	8'-9"	10'-2"	11'-7"	13'-0"	14'-5"	15'-10"	18'-9"	21'-8"

DIMENSION "B"								
PIPE DIAMETER (INCHES)								
24	30	36	42	48	54	60	72	84
10"	11"	1'-1"	1'-2"	1'-3"	1'-4"	1'-6"	1'-8"	2'-0"

DIMENSION "C"	
PIPE DIAMETER (INCHES)	
24-72	84
12"	1'-3"

**GENERAL NOTES:**

1. THE PIPE PENETRATION DETAILED HEREIN SHALL BE PAID FOR UNDER LUMP SUM AND SHALL BE COMPENSATION FOR THE PENETRATION COMPLETE AND IN PLACE, INCLUDED IN THIS WORK (BUT NOT LIMITED TO) IS GRADING, SUBGRADE PREPARATION, REINFORCED CONCRETE, CONSTRUCTION JOINTS, CONCRETE PLACEMENT AND FINISHING. NOTE THE MEASUREMENT FOR 7" CHANNEL LINING IS CONTINUOUS AND UNINTERRUPTED AT THE PENETRATION LOCATION.
2. ALL CULVERT PIPE PLACED UNDER THE CHANNEL LINING OR WITHIN AMAFCA RIGHT-OF-WAY SHALL BE RCP CLASS III.



AS BUILT INFORMATION	
CONTRACTOR	DATE
INSPECTOR'S	DATE
FIELD VERIFICATION BY	DATE
CORRECTED BY	DATE
RECORDED BY	DATE
MICRO-FILM INFORMATION	
NO.	

BENCH MARKS	
ACS 3 1/4" Aluminum Cap stamped "AS 1-C11"	DATE
Near Intersection of Ridgeway Dr. & Calle Morteno	DATE
Geographic Position (NAD 27), in feet	DATE
N.M. State Plane Coordinates (Central Zone)	DATE
X=366,041.86, Y=1,519,125.33	DATE
Elevation=5272.34 NGVD29, in feet	DATE

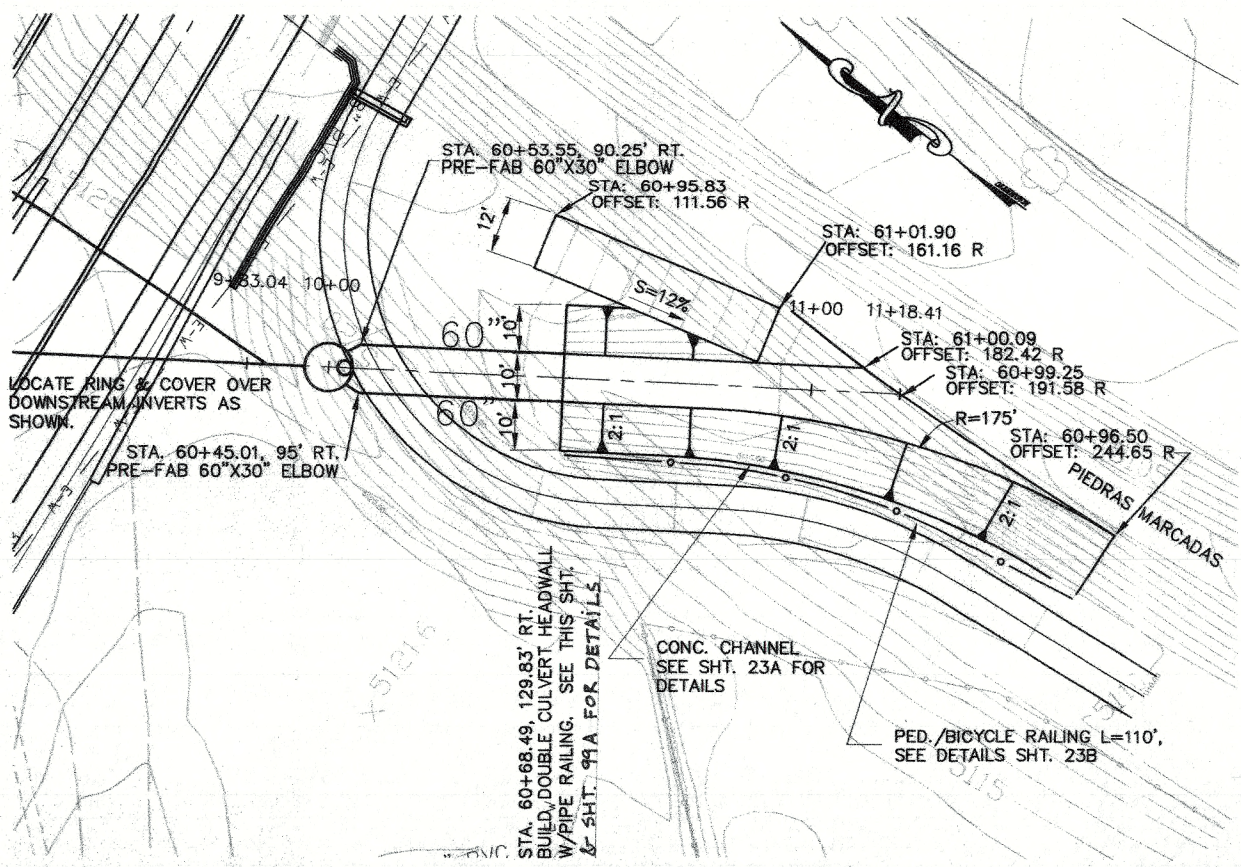
  

SURVEY INFORMATION	
FIELD NOTES	DATE
BY	DATE
NO.	DATE

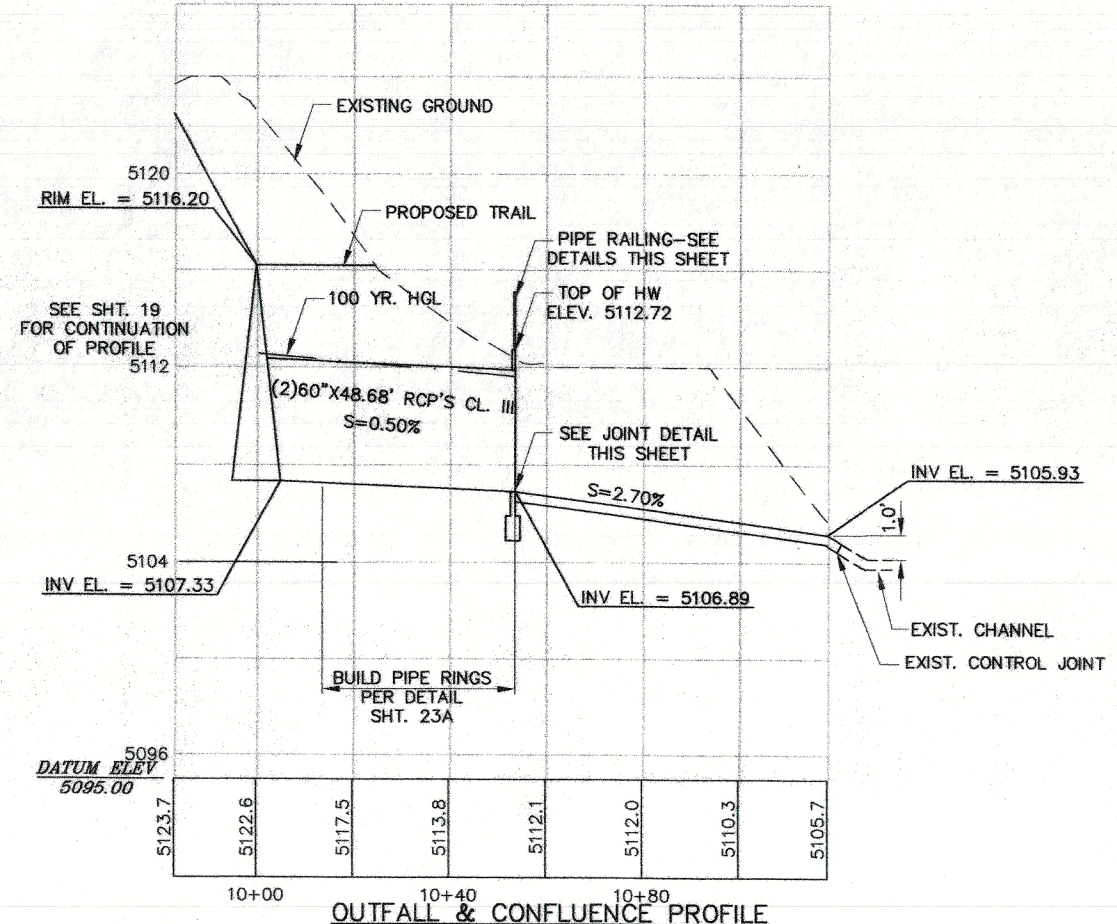
  

ENGINEER'S SEAL	
NO.	DATE
BY	DATE
REMARKS	DATE
DESIGN	DATE
DRAWN BY	DATE
CHECKED BY	DATE

CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT TRANSPORTATION DIVISION			
PASEO DEL NORTE EXTENSION DRAINAGE DETAILS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVE DEC 1 8 2005	APPROVE DEC 1 8 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
City Project No. COA 704902	Zone Map No. C - 11	Sheet 22	Of 116

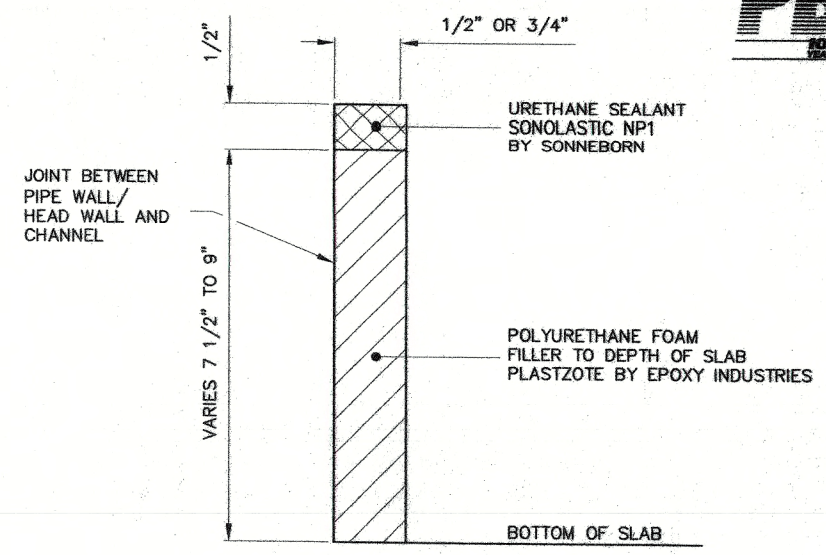


**OUTFALL & CONFLUENCE PLAN**  
SCALE :1"=20'

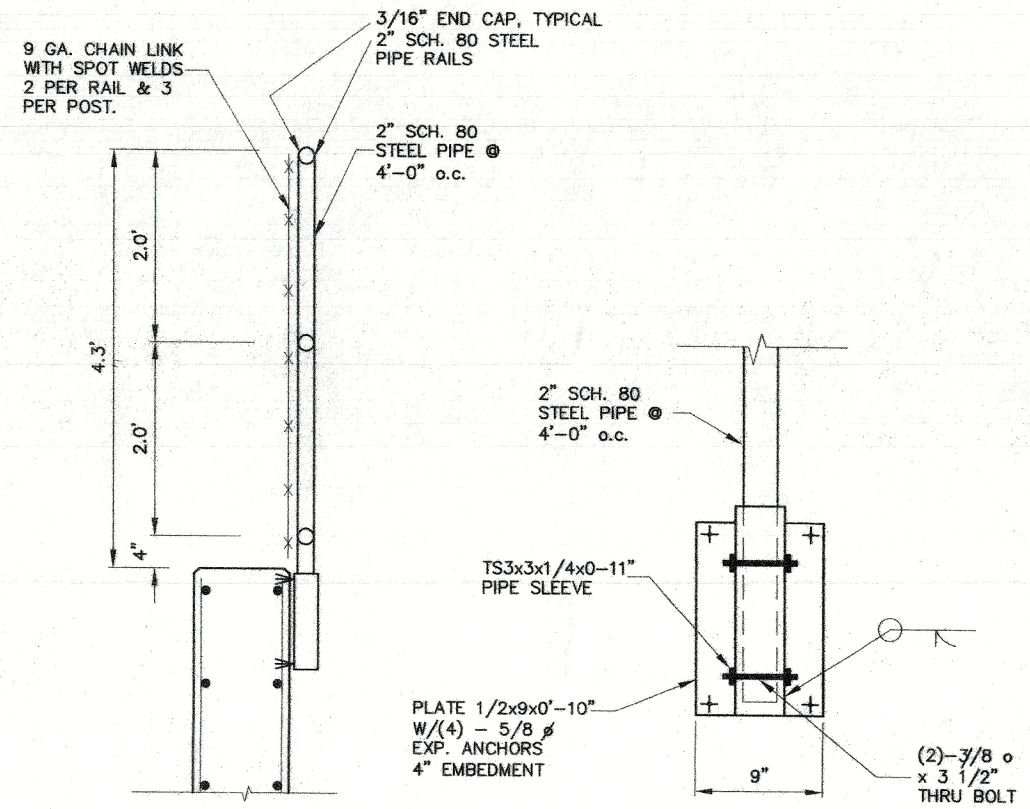


**OUTFALL & CONFLUENCE PROFILE**  
HORIZ. SCALE :1"=20'  
VERT. SCALE :1"=4'

**NOTE: NO REMOVALS ALLOWED  
IN CHANNEL BELOW EXISTING  
CONTROL JOINT.**



**EXPANSION JOINT DETAIL**  
NTS



**RAILING DETAIL**  
NTS

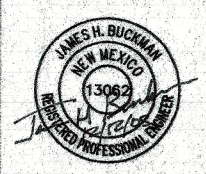
**BASE DETAIL**  
NTS



AS BUILT INFORMATION	
CONTRACTOR	NO.
WORK STARTED BY	DATE
INSPECTED BY	DATE
FIELD MEASUREMENTS BY	DATE
DESIGNED BY	DATE
CHECKED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE

BENCH MARKS	
ACS 3 1/4" Aluminum Cap stamped "ACS 1-011"	
Near Intersection of Ridgeway Dr. & Calle Norteno	
Geographic Position (NAD 27), in feet	
N.M. State Plane Coordinates (Central Zone)	
X=366,041.86, Y=1,518,125.33	
Elevation=5272.34, NGVD29, in feet	

FIELD NOTES	
NO.	DATE
BY	

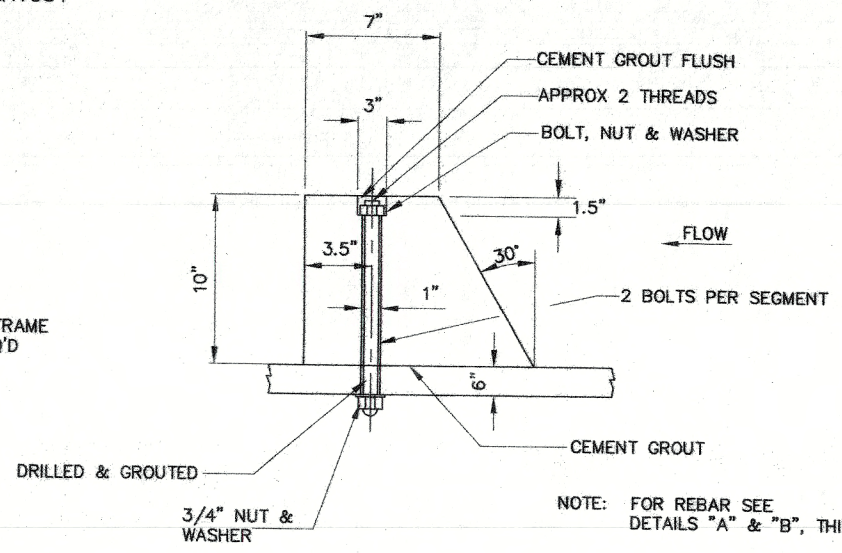
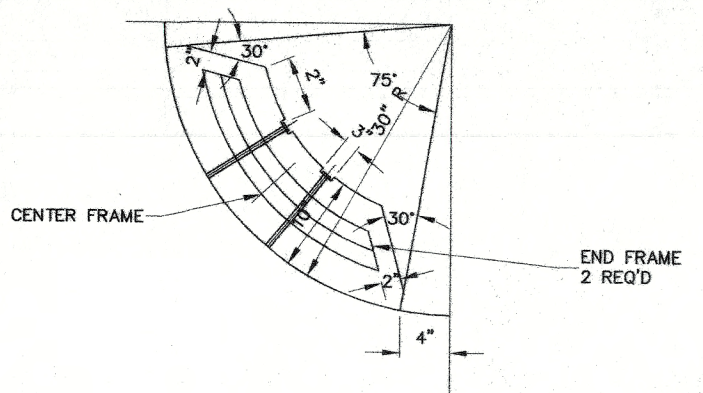
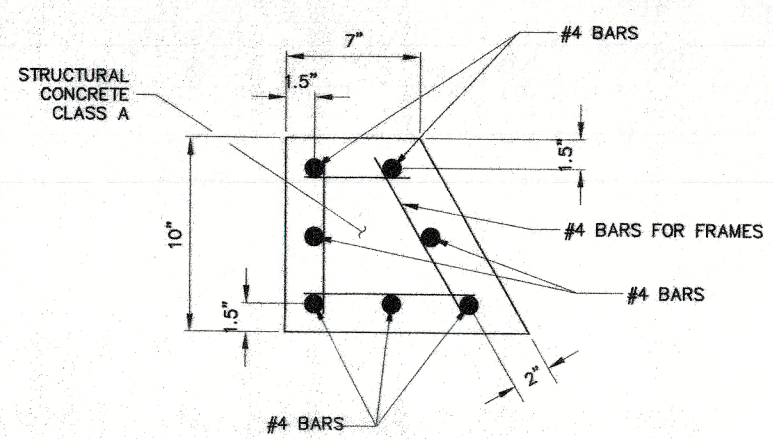
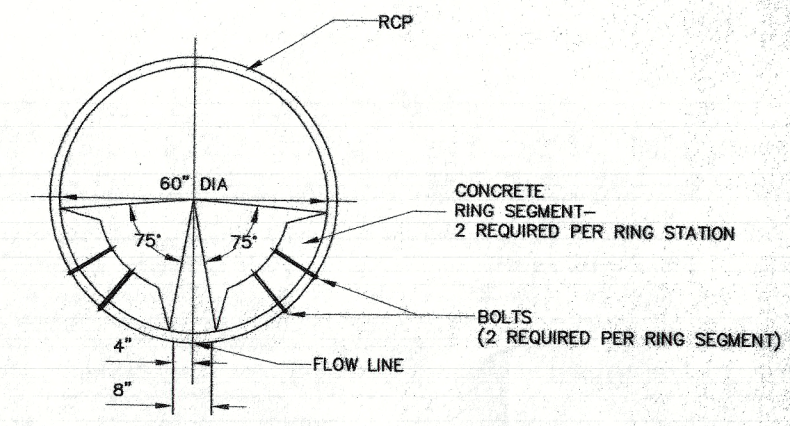
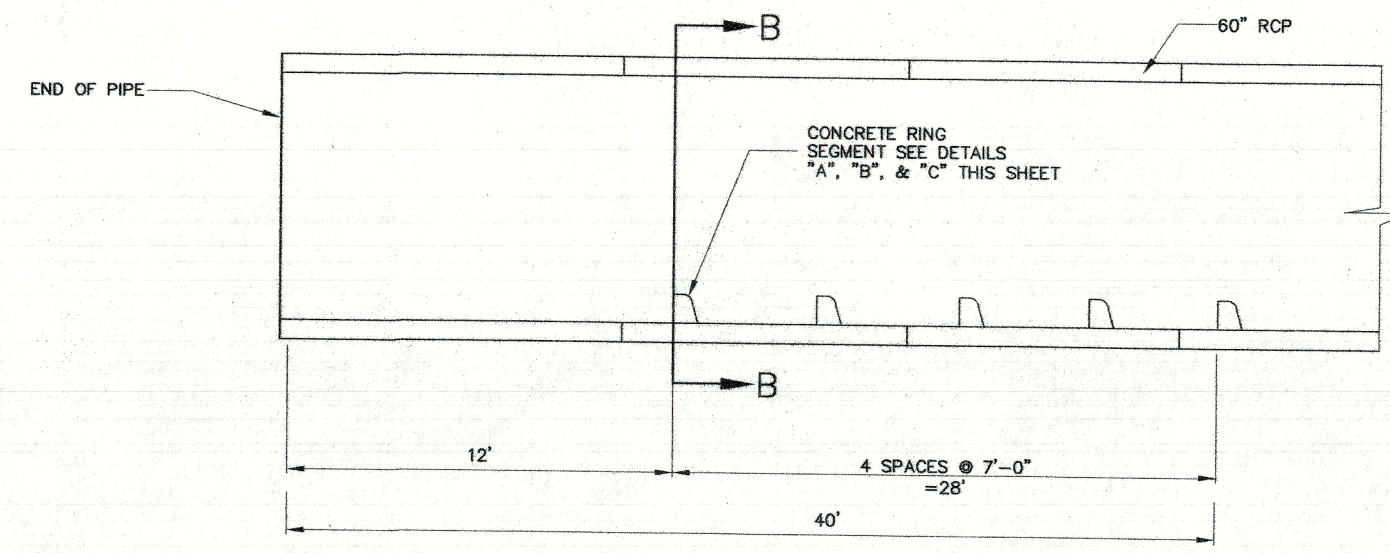
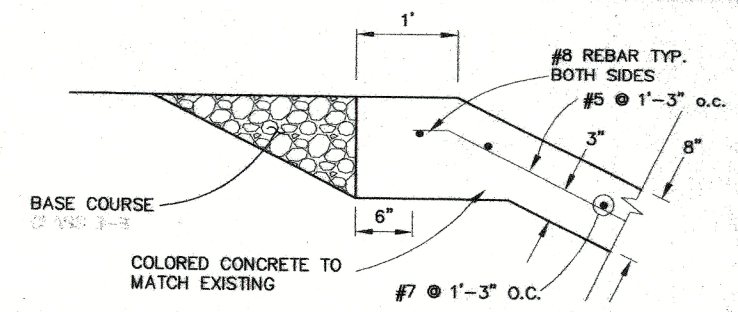
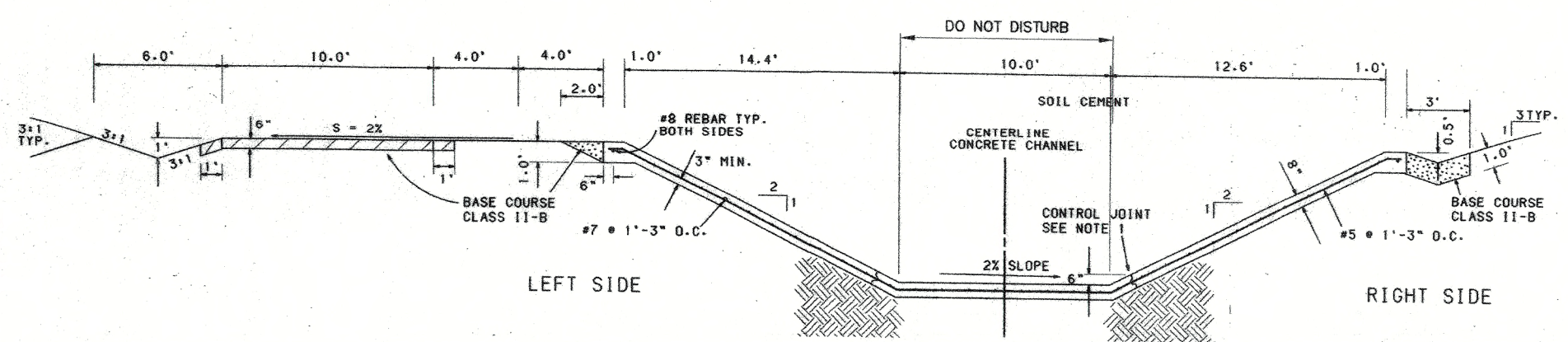


ENGINEER'S SEAL	
NO.	DATE
REMARKS	BY
DESIGN	DATE
DRAWN BY	DATE
CHECKED BY	DATE

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION  
PASEO DEL NORTE EXTENSION  
**DRAINAGE DETAILS**

DESIGN REVIEW COMMITTEE APPROVE DEC 1 2 2005  
CITY ENGINEER APPROVAL APPROVE DEC 1 2 2005

City Project No. COA 704902    Zone Map No. C - 11    Sheet 23 Of 116



- GENERAL NOTES:**
1. CONCRETE FOR RING SEGMENTS SHALL BE 5000 PSI MIN. COMPRESSIVE STRENGTH @ 28 DAYS.
  2. REINFORCING BARS SHALL BE GRADE 60.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REMARKS		DESIGN	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
CONTRACTOR: ACS 3 1/4" Aluminum Cap stamped "ACS 1-011"											
INSPECTOR'S NAME: Near Intersection of Ridgeway Dr. & Calle Martena											
INSPECTOR'S DATE: Geographic Position (NAD 27), in feet											
FIELD PLANS BY: N.M. State Plane Coordinates (Central Zone)											
REVISION BY: X=366,041.88, Y=1,519,126.33											
CHECKED BY: Elevation=5272.34 NAVD29, in feet											
RECORDED BY: MICRO-FILM INFORMATION											
NO.											

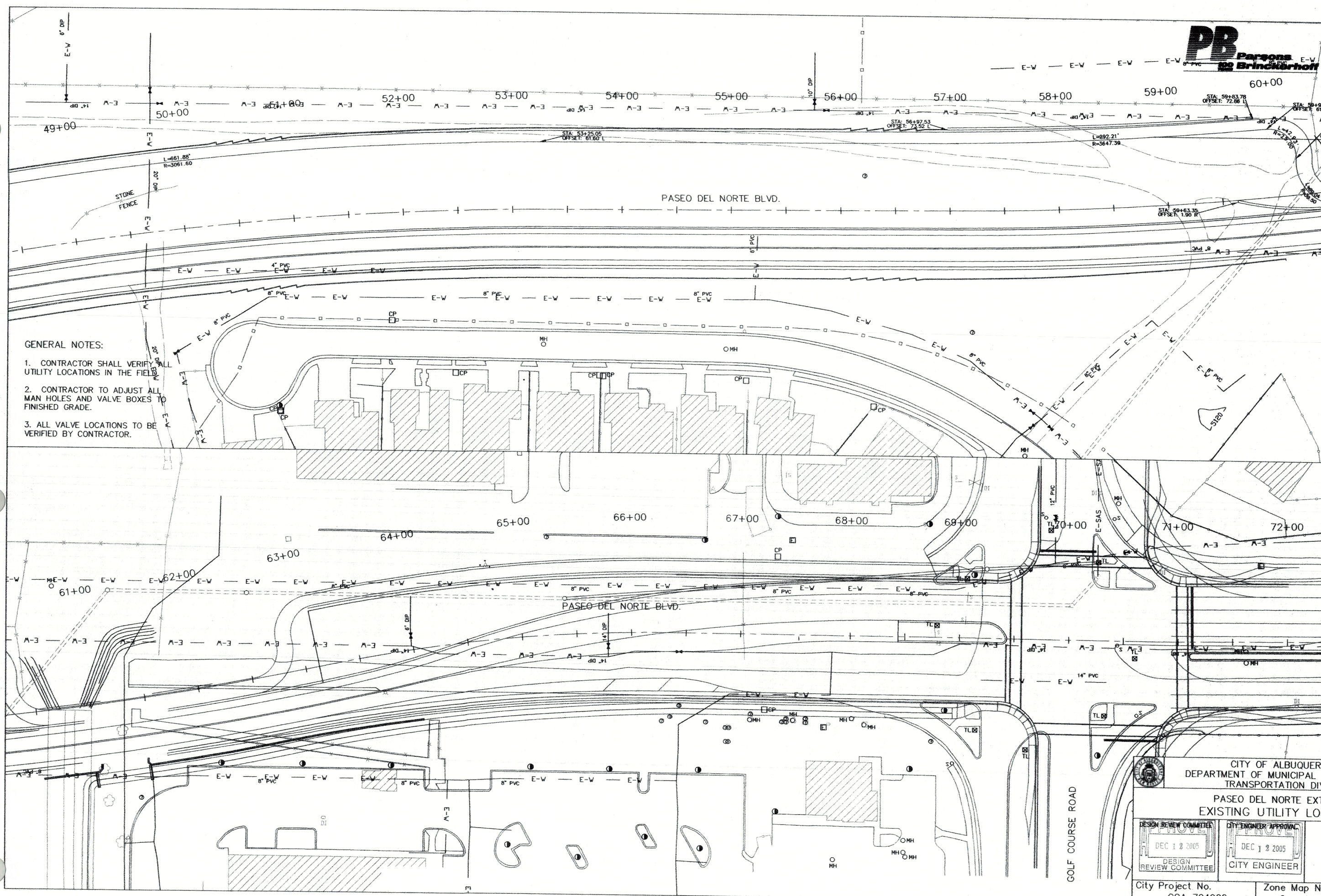
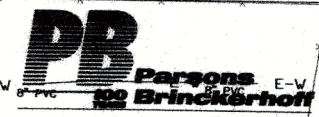
CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
**DRAINAGE DETAILS**

DESIGN REVIEW COMMITTEE APPROVED DEC 1 2 2005  
CITY ENGINEER APPROVED DEC 1 2 2005

City Project No. COA 704902      Zone Map No. C - 11      Sheet 23A Of 116





- GENERAL NOTES:**
1. CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS IN THE FIELD.
  2. CONTRACTOR TO ADJUST ALL MAN HOLES AND VALVE BOXES TO FINISHED GRADE.
  3. ALL VALVE LOCATIONS TO BE VERIFIED BY CONTRACTOR.

AS BUILT INFORMATION	
CONTRACTOR	ACS 1-C11
WORK STATIONED BY	Near Intersection of Ridgeway Dr. & Calle Nortena
DATE	
AS BUILT BY	Geographic Position (NAD 27), in feet
DATE	
FIELD CHECKED BY	N.M. State Plane Coordinates (Central Zone)
DATE	
DRAWN BY	X=368,041.88, Y=1,019,125.33
DATE	
CHECKED BY	Elevation=5272.34 NGVD29, in feet
DATE	
MICRO-FILM INFORMATION	
RECORDED BY	
NO.	

**ENGINEER'S SEAL**

ALLAN K. PORTER  
 P.E. No. 11230  
 STATE OF NEW MEXICO  
 REGISTERED PROFESSIONAL ENGINEER

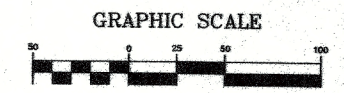
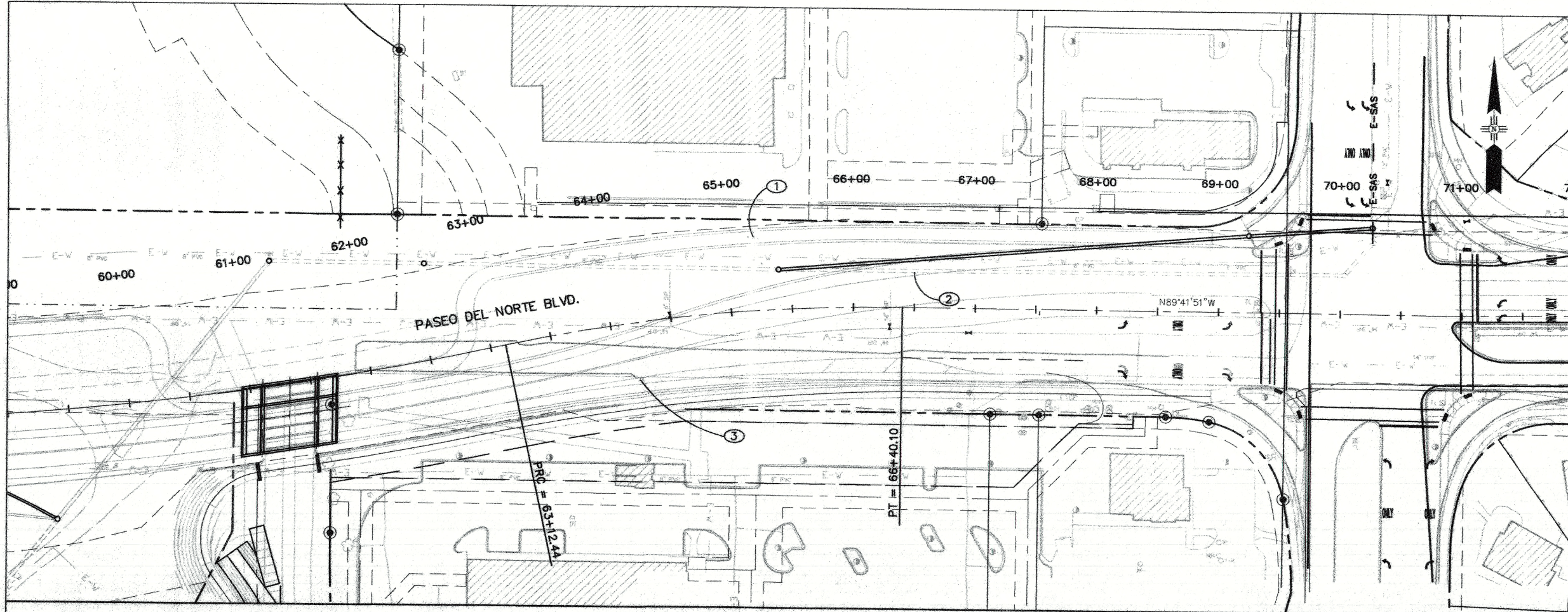
SURVEY INFORMATION	
FIELD NOTES	
NO.	
BY	
DATE	
REMARKS	
NO.	
DATE	
DESIGNED BY	
DRAWN BY	
CHECKED BY	

CITY OF ALBUQUERQUE  
 DEPARTMENT OF MUNICIPAL DEVELOPMENT  
 TRANSPORTATION DIVISION

**PASEO DEL NORTE EXTENSION  
 EXISTING UTILITY LOCATIONS**

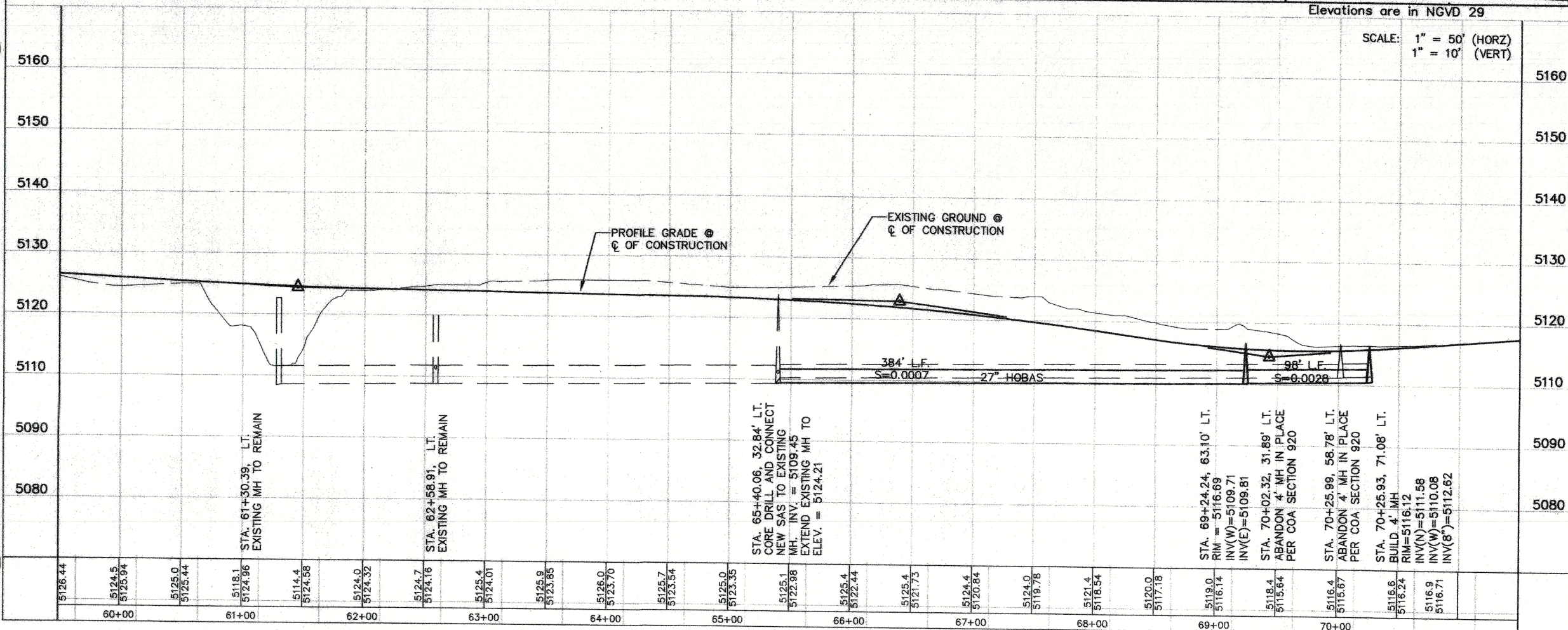
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
DEC 1 2 2005	DEC 1 2 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 24      Of 116



- KEYED NOTES:**
- STA. 65+21.10, 60.49 LT. REMOVE AND REPLACE EXISTING FH AND VALVE, INSTALL 25 LF NEW 6" C900.
  - APPROX. 482 LF OF 27" SEWERLINE TO BE REMOVED AND DISPOSED
  - STA. 64+18.87, 42.72' RT. REMOVE AND REPLACE EXISTING FH AND VALVE, INSTALL 25 LF NEW 6" C900.

- GENERAL NOTES:**
- ADJUST VERTICAL GRADE OF EXISTING WATER LINE AS NEEDED TO CROSS SEWER LINE UNDER WATER LINE AS PER COA CRITERIA.
  - CONTRACTOR SHALL COORDINATE WITH COA FOR SEWER BY-PASS PUMPING.
  - CONTRACTOR SHALL COORDINATE WITH COA & NMUI FOR ALL WATER SHUT OFFS.
  - CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS IN THE FIELD.
  - CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND ELEVATION OF ALL VALVE BOXES AND MANHOLES.
  - CONTRACTOR SHALL ADJUST ALL VALVE BOXES AND MANHOLE RIMS AND COLLARS TO NEW FINISHED GRADE.



AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	ACCS 3 1/4" Aluminum Cap stamped "ACCS 1-C11"	DATE	NO.	BY	NO.	DATE
INSPECTED BY	DATE	Near Intersection of Ridgeway Dr. & Calle Nortena	DATE				
INSPECTOR'S FIELD CHECK BY	DATE	Geographic Position (NAD 27), in feet	DATE				
VERIFICATION BY	DATE	N.M. State Plane Coordinates (Central Zone)	DATE				
CONTRACTED BY	DATE	X=366,041.86, Y=1,519,125.33	DATE				
RECORDED BY	DATE	Elevation=5272.34 NGVD28, in feet	DATE				
NO.							

DESIGNED BY	DATE	CHECKED BY	DATE
DESIGN	11/16/05		11/16/05
DGS		DGB	
DGS		DGB	
DGS		DGB	

<p>CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT TRANSPORTATION DIVISION</p> <p>PASEO DEL NORTE EXTENSION <b>SANITARY SEWER PLAN AND PROFILE</b></p>			
		MO./DAY/YR.	MO./DAY/YR.
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
City Project No.	Zone Map No.	Sheet	Of
COA 704902	C - 11	25	116





## GENERAL NOTES

WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 WITH UPDATES AND APPLICABLE SUPPLEMENTAL TECHNICAL SPECIFICATIONS.

DRILLED-HOLE INFORMATION: THE CITY OF ALBUQUERQUE IS NOT RESPONSIBLE FOR ANY INTERPRETATION OR ASSUMPTIONS MADE BY THE CONTRACTOR BASED ON THE DRILL HOLE INFORMATION SHOWN ON THE PLANS.

CONCRETE: THE DECK SLAB, APPROACH SLABS, APPROACH SLAB SLEEPERS, ABUTMENT DIAPHRAGMS AND WINGWALLS SHALL BE SUPERSTRUCTURE CONCRETE. SUBSTRUCTURE CONCRETE SHALL BE CLASS A. CHAMFER ALL EXPOSED EDGES OF STRUCTURES 3/4" UNLESS OTHERWISE NOTED.

STAY-IN PLACE DECK FORMS: PERMANENT STEEL DECK FORMS MAY BE UTILIZED FOR BRIDGE DECK CONSTRUCTION ON THIS STRUCTURE. DESIGN CALCULATIONS AND SPECIFICATIONS FOR THE PROPOSED FORMING SYSTEM MUST BE APPROVED BY THE PROJECT MANAGER PRIOR TO INSTALLATION.

DECK SLAB: THE TOP SURFACE OF THE DECK AND THE APPROACH SLABS SHALL BE MACHINE-GROOVED IN ACCORDANCE WITH THE SPECIFICATION REQUIREMENTS FOR GROOVING HARDENED CONCRETE. THE GROOVED PATTERN SHALL BE CUT LONGITUDINAL TO THE CENTERLINE OF THE ROADWAY. DECK SLAB CONCRETE SHALL BE PLACED IN ACCORDANCE WITH DECK SLAB PLACEMENT SEQUENCE SHOWN ON THE TOP OF DECK ELEVATIONS SHEET.

REINFORCING BARS: REINFORCING BARS SHALL BE GRADE 60. DIMENSIONS SHOWN REFER TO THE CENTERLINE OF BARS UNLESS NOTED OTHERWISE.

BRIDGE NUMBER PLATES: THE CONTRACTOR SHALL FURNISH 2 BRIDGE NUMBER PLATES CONFORMING TO THE DETAILS SHOWN. THE COST OF THE PLATES SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND WILL NOT BE PAID FOR DIRECTLY.

STRUCTURAL STEEL: STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE GRADE LISTED BELOW.

COMPONENT	GRADE
SOLE PLATES	M-183
DIAPHRAGMS	M-270

SHOP DRAWINGS SHALL BE REVIEWED BY THE PROJECT MANAGER BEFORE FABRICATION.

FINISHING CONCRETE SURFACES: THE CONCRETE SURFACES LISTED BELOW SHALL RECEIVE A CLASS 4, SPECIAL SURFACE FINISH. THE COLOR OF THE FINISH SHALL BE AS FOLLOWS:

SURFACE:  
1) CONCRETE BARRIER RAILING (ROADSIDE, TOP AND FAR SIDE): PER PROJECT MANAGER

A 1'x1' SAMPLE PANEL OF EACH COLOR OF THE PROPOSED FINISH MATERIALS SHALL BE SUBMITTED TO THE PROJECT MANAGER FOR APPROVAL. BRIDGE COLORS MAY BE CHANGED AT THE PROJECT MANAGER'S DISCRETION. (EQUIVALENT COLORS MANUFACTURED BY OTHER WILL BE ALLOWED BY APPROVAL OF THE PROJECT MANAGER.)

VERIFICATION OF GIRDER CAMBER: BEFORE SCREEDS ARE SET, A PROFILE SHALL BE TAKEN ALONG EACH COMPLETE LINE OF GIRDERS. IF THE ACTUAL CAMBER DIFFERS FROM THAT SHOWN ON THE PLANS SUCH THAT A DEFICIENT SLAB THICKNESS WOULD RESULT, ADJUSTMENTS WILL BE MADE BY THE PROJECT ENGINEER.

PERMANENT ANTI-GRAFFITI PROTECTION COATING SHALL BE APPLIED TO THE FOLLOWING SURFACES:

- BRIDGE BARRIER RAILING
- THE FIRST 15' OF EXTERIOR EDGES OF DECK SLAB CANTILEVER AT THE ABUTMENTS.
- THE FIRST 15' OF THE EXTERIOR SURFACES OF EXTERIOR GIRDERS AT THE ABUTMENTS.
- THE EXTERIOR SURFACES OF ABUTMENTS AND WINGWALLS.

PENETRATING WATER REPELLENT TREATMENT SHALL BE APPLIED TO ALL EXPOSED NEW CONCRETE SURFACES. TREATMENT SHALL EXTEND 1'-0" BELOW FINISHED GRADE, WHERE APPLICABLE.

POLYSTYRENE JOINT FILLER: POLYSTYRENE JOINT FILLER SHALL BE OWENS CORNING FOAMULAR 150 OR AN APPROVED EQUAL. FURNISHING AND PLACING THE MATERIAL WILL BE INCIDENTAL TO THE PROJECT.

## CAPACITY RATING

INVENTORY	HS24 (LFD)
OPERATING	HS40 (LFD)

## INCIDENTAL ITEMS

- BRIDGE NUMBER PLATES
- ALL POLYSTYRENE JOINT FILLER
- GALVANIZED SHEET METAL, 16 GA.
- ELASTOMERIC BEARING PADS
- EVAZOTE JOINT SEALS
- WATERSTOP AT ABUTMENT SEAT AND ITS APPURTENANCES
- DECK AND APPROACH SLAB SURFACE TEXTURING
- PENETRATING WATER REPELLENT TREATMENT
- PAINTING AND CLASS 4, SPECIAL SURFACE FINISH ON THE LISTED AREAS
- FURNISHING AND INSTALLING OF ELASTOMERIC BEARING PADS
- PERMANENT ANTI-GRAFFITI PROTECTIVE COATING

NOTE:  
ITEMS LISTED ABOVE ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY NOT BE COMPLETE. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIALS REQUIRED BY SPECIAL PROVISIONS, SERIALS (STANDARD DETAILS), SUPPLEMENTAL SPECIFICATIONS OR THE STANDARD SPECIFICATIONS.

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SYSTEM I BRIDGE JOINT STRIP SEALS TYPE "A" INSTALLATION	53

## DESIGN DATA

DESIGN IS IN ACCORDANCE WITH THE AASHTO STANDARD BRIDGE DESIGN SPECIFICATIONS 2002 EDITION.

DESIGN STRESSES:

REINFORCED CONCRETE:  
SUPERSTRUCTURE:  $F'_c = 4,000$  PSI AT 28 DAYS  
 $F_y = 60,000$  PSI GRADE 60  
SUBSTRUCTURE:  $F'_c = 3,000$  PSI AT 28 DAYS  
 $F_y = 60,000$  PSI GRADE 60

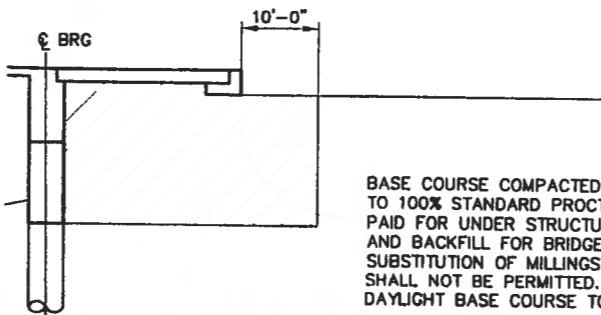
LIVE LOAD: HS-20

WEARING SURFACE: 30 PSF ALLOWANCE FOR FUTURE WEARING SURFACE.

STAY-IN-PLACE DECK FORM: 15 PSF

HORIZONTAL EARTH PRESSURE: 36 LBS./CU.FT. EQUIVALENT FLUID PRESSURE AND 2.0' SURCHARGE.

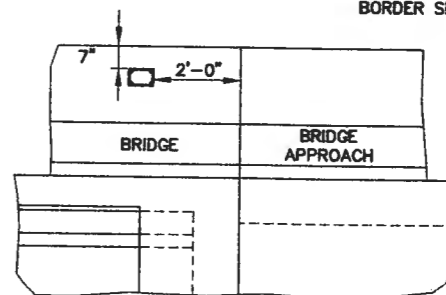
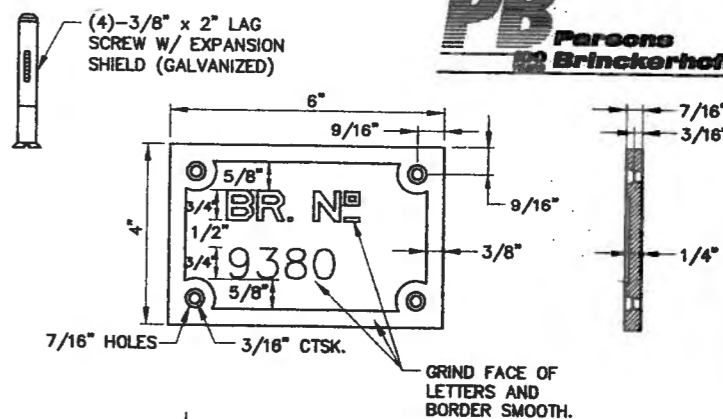
ACTIVE PRESSURE: 36 PCF  
AT REST: 55 PCF  
PASSIVE PRESSURE: 400 PCF  
WIND VELOCITY: 80 MPH



APPROACH EMBANKMENT COMPACTION DETAILS

## ESTIMATED QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNIT	SUPER STRUCTURE		SUBSTRUCTURE		APPR. SLAB NO.1	APPR. SLAB NO.2	TOTAL QUANTITY
					ABUTMENT NO.1	ABUTMENT NO.2			
102.01	REINFORCING BARS GRADE 60	LBS			18400.00	18400.00			36800.00
103.01	EPOXY COATED REINFORCING BARS-GR.60	LBS	24970.00				7060.00	7060.00	39090.00
504.01	DRILLED SHAFT FOUNDATION 36" D	LF			385.00	385.00			770.00
504.02	OBSTRUCTION REMOVAL	LF			5.00	5.00			5.00
505.01	CROSSHOLE SONIC LOGGING CONSULTANT TESTING	EACH			7.00	7.00			14.00
556.01	SUPERSTRUCTURE CONCRETE	CY	147.20				69.70	69.70	286.60
556.02	SUBSTRUCTURE CONCRETE CLASS A	CY		46.00	46.00				92.00
514.01	CONCRETE BARRIER RAILINGS 42"	LF	233.00						233.00
518.01	PRESTRESSED CONCRETE BRIDGE MEMBER-TYPE 36	LF	322.00						322.00
542.01	STRUCTURAL STEEL FOR CONCRETE BRIDGES	LBS	3238.00						3238.00
555.01	STRUCTURE EXCAVATION AND BACKFILL FOR BRIDGES	CY		613.00	639.00				1252.00
567.01	BRIDGE JOINT STRIP SEAL	LF	119.50						119.50



### NOTES:

- 1 PLATE WITH FLAT HEAD BOLTS IN EXPANSION SHIELDS (GALVANIZED) ARE REQUIRED FOR EACH BRIDGE. MATERIAL EQUALS CAST IRON. RAISED BLOCK LETTERS OF NEAT SQUARE CUT DESIGN. GRIND FACE, & HOT DIPPED GALVANIZED.
- 2 ONE PLATE IS TO BE PLACED AT THE APPROACH END OF EACH BRIDGE ON THE ROADWAY FACE OF THE CONCRETE BARRIER RAILING AT THE END OF THE DECK. LOCATE ON RIGHT SIDE AS ONE APPROACHES BRIDGE.

### BRIDGE NUMBER PLATE DETAILS

## SUPPLEMENTAL SPECIFICATIONS

- SECTION 556 - SUPERSTRUCTURE CONCRETE
- SECTION 504 - DRILLED SHAFT CONCRETE BEARING PILES
- SECTION 505 - PILE INTEGRITY TESTING
- SECTION 514 - CONCRETE BARRIER RAILINGS FOR BRIDGES
- SECTION 518 - PRESTRESSED CONCRETE MEMBERS
- SECTION 544 - PROTECTIVE COATING OF NEW STRUCTURAL STEEL
- SECTION 545 - PROTECTIVE COATING OF MISCELLANEOUS STRUCTURAL STEEL
- SECTION 566 - ELASTOMERIC BEARING PADS
- SECTION 567 - BRIDGE JOINT STRIP SEALS, SYSTEM I
- SECTION 555 - STRUCTURE EXCAVATION AND BACKFILL FOR BRIDGES
- SECTION 560 - MECHANICALLY STABILIZED EARTH RETAINING STRUCTURES
- SECTION 591 - CRACK SEALING USING HIGH MOLECULAR WEIGHT METHACRYLATE
- SECTION 592 - PERMANENT ANTI-GRAFFITI PROTECTIVE COATING
- SECTION 185 - PORTLAND CEMENT CONCRETE FOR BRIDGES
- SECTION 590 - PENETRATING WATER REPELLENT
- SECTION 557 - CONCRETE STRUCTURES
- SECTION 517 - PRECAST CONCRETE STRUCTURES
- SECTION 542 - STEEL STRUCTURES
- SECTION 543 - PREFABRICATED PEDESTRIAN BRIDGE
- SECTION 522 - CONCRETE CHEMICAL ANCHORS

BRIDGE NO. 9380  
STA. 61+28.70  
SKEW 9°00'00" R.F.

DESIGN REVIEW COMMENTS		CITY ENGINEER APPROVAL		NO.	DATE	NO.	DATE
APPROVED DEC 1 & 2005		APPROVED DEC 1 & 2005			11/05		11/05
DESIGN REVIEW COMMITTEE		CITY ENGINEER					
City Project No. COA 704902		Zone Map No. C - 11		Sheet 28		Of 116	

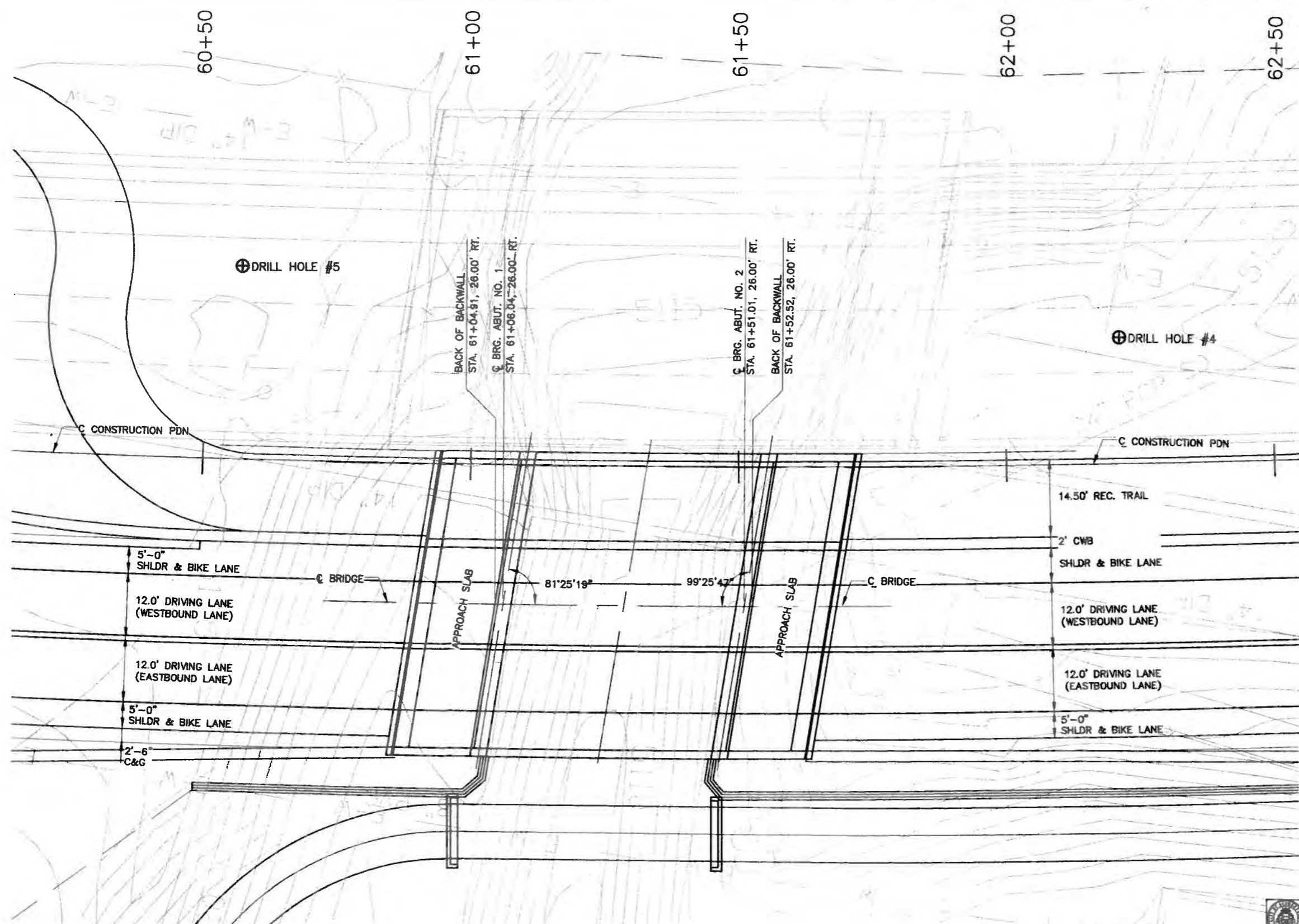
CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
GENERAL NOTES

NO.	DATE	REMARKS



AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR		ACOS 3 1/4" Aluminum Cap stamped "ACOS 1-C11"		NO.	DATE	NO.	DATE
DESIGNED BY		Near Intersection of Ridgeway Dr. & Calle Norberto		BY		BY	
CHECKED BY		Geographic Position (NAD 27), in feet		NO.	DATE	NO.	DATE
APPROVED BY		N.M. State Plane Coordinates (Central Zone)		DESIGNED BY	DB	CHECKED BY	MG
DATE		N=388,041.88; Y=1,819,125.33		DATE	11/05	DATE	11/05
DATE		Elevation=2722.34; NGVD29, in feet		DATE		DATE	
DATE				DATE		DATE	



**C CONSTRUCTION PDN CURVE DATA**

PI STA. 60+06.07  
 R = 3000.00'  
 L = 614.91'  
 TAN = 308.54'  
 DELTA = 11°44'38"  
 SE = 0.025

AS BUILT INFORMATION	
CONTRACTOR	
DATE	
DATE	
DATE	
DATE	
DATE	
DATE	
DATE	

BENCH MARKS	
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	
Near Intersection of Rippey Dr. & Calle Norbena	
Geographic Position (NAD 27), in feet	
N.M. State Plane Coordinates (Central Zone)	
X=365,041.88, Y=1,518,125.33	
Elevation=2872.34 NGVD83, in feet	

SURVEY INFORMATION	
FIELD NOTES	
NO.	
BY	
DATE	



NO.	DATE	REMARKS	BY
		DESIGN	
DESIGNED BY:	DB	DATE	11/05
DRAWN BY:	VRV	DATE	11/05
CHECKED BY:	MG	DATE	11/05

BRIDGE NO. 9380  
 STA. 61+28.70  
 SKEW 9°00'00" R.F.

CITY OF ALBUQUERQUE  
 DEPARTMENT OF MUNICIPAL DEVELOPMENT  
 TRANSPORTATION DIVISION

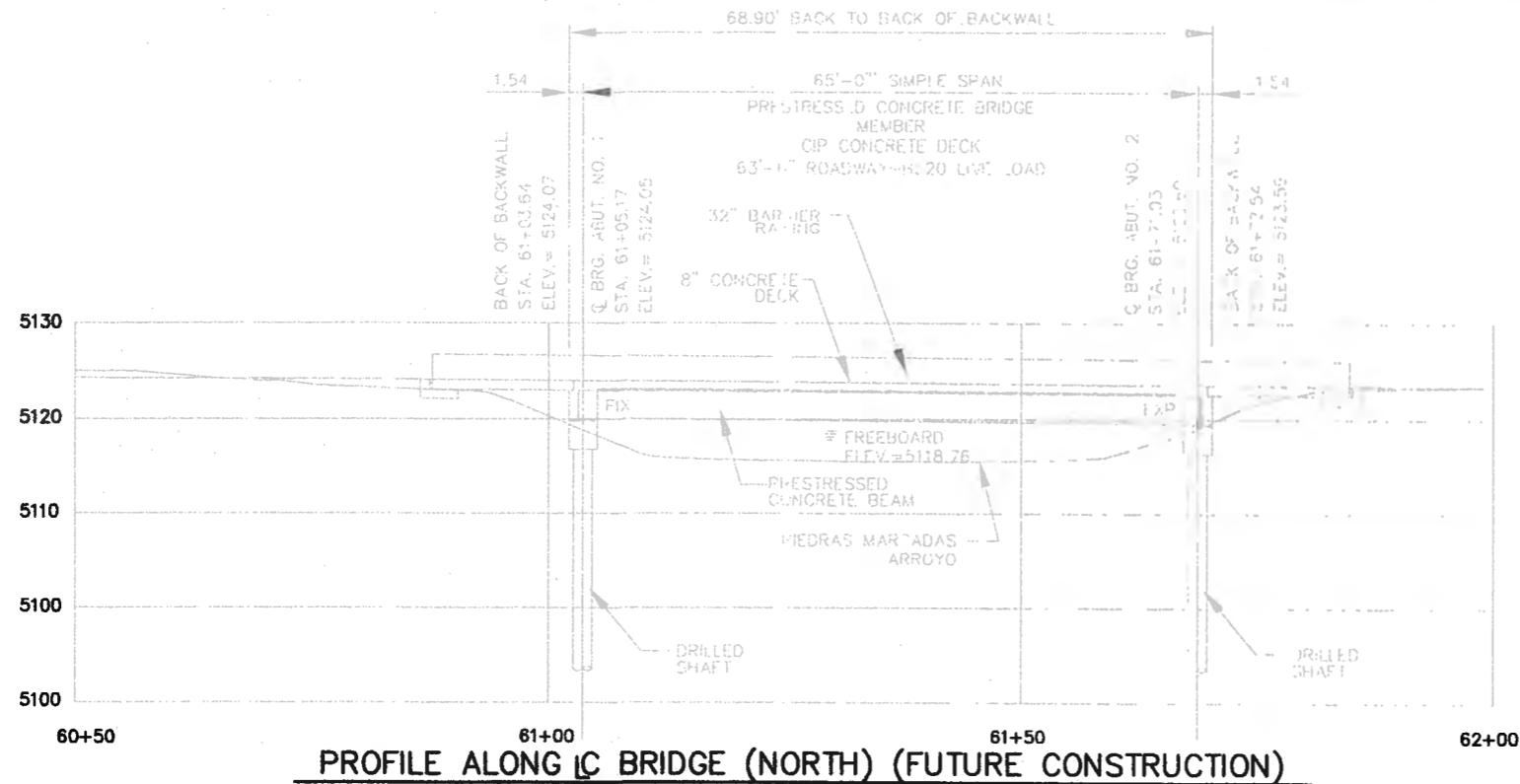
**PASEO DEL NORTE EXTENSION  
 BRIDGE PLAN**

DESIGN REVIEW COMMITTEE APPROVAL DEC 1 2 2005	CITY ENGINEER APPROVAL DEC 1 2 2005	MO./DAY/YR.	MO./DAY/YR.
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City Project No. COA 704902      Zone Map No. C - 11      Sheet 29      Of 116

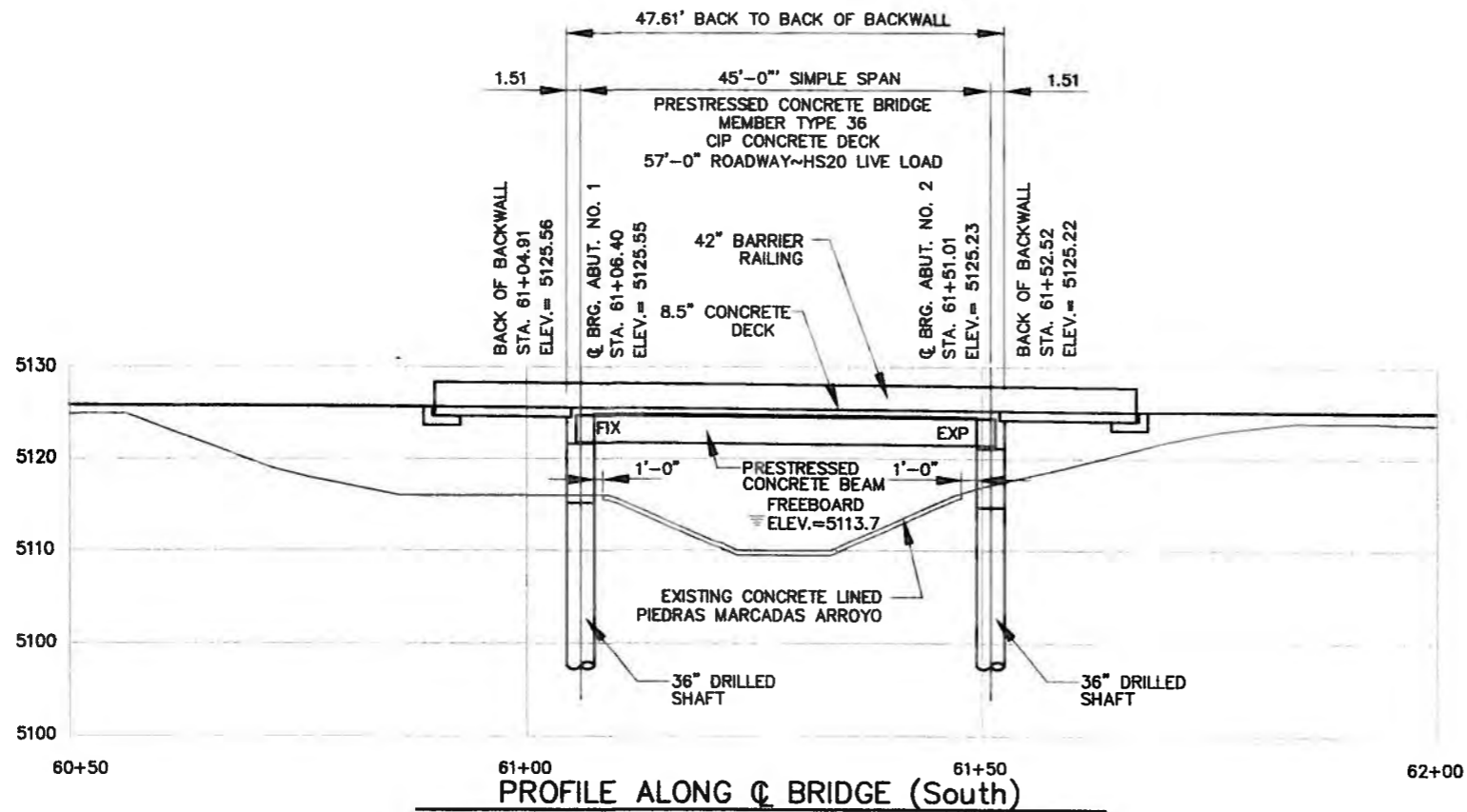
NOTE:  
 1. ABUTMENT CENTERLINES ARE  
 PARALLEL AND BEAR N00°18'00"E

**PLAN VIEW**  
 SCALE - 1:10



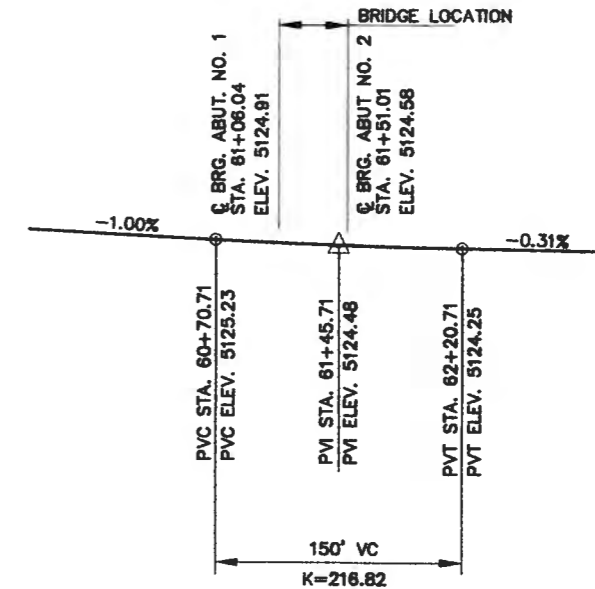
**PROFILE ALONG Q BRIDGE (NORTH) (FUTURE CONSTRUCTION)**

SCALE - 1:10  
NOTE: STATIONS AND ELEVATIONS SHOWN ARE ALONG Q BRIDGE.



**PROFILE ALONG Q BRIDGE (South)**

SCALE - 1:10  
NOTE: STATIONS AND ELEVATIONS SHOWN ARE ALONG Q BRIDGE.



**PDN ROADWAY PROFILE GRADE**

NOT TO SCALE  
NOTE: ELEVATIONS ARE ON Q CONSTRUCTION

BRIDGE NO. 9380  
STA. 61+28.70  
SKEW 9°00'00" R.F.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	DATE	NO.	BY		REMARKS
WORK STARTED BY	DATE	Near Intersection of Ridgeway Dr. & Calle Hartana	DATE	NO.	BY		DESIGN
ACCURACY BY	DATE	Geographic Position (NAD 27), in feet	DATE	NO.	BY	DESIGNED BY: DB	DATE 11/05
PERFORMED BY	DATE	N.M. State Plane Coordinates (Central Zone)	DATE	NO.	BY	DRAWN BY: VRV	DATE 11/05
CHECKED BY	DATE	X=366,041.88, Y=1,519,125.33	DATE	NO.	BY	CHECKED BY: MG	DATE 11/05
RECORDED BY	DATE	Elevation=5272.34 NAVD83, in feet	DATE	NO.	BY		
	DATE		DATE	NO.	BY		

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
BRIDGE PROFILE

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	M/JAY/ML	M/JAY/ML
APPROVE DEC 1 3 2005	APPROVE DEC 1 3 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 30 Of 116

**LOG OF TEST HOLE NO. 4**

Project: Paseo del Norte Extension Project No.: 03-1-449  
 Elevation - Top of Test Hole: N/A Date Drilled: 12/16/2003  
 Depth to Groundwater: Not Encountered Drilling Method: 7" H.S.A.

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
							3" asphalt over 4" base course
5	22	R	115	9.0	1,2	SM	FILL - SAND, very silty, fine to medium grained, trace gravel, medium dense, moist, yellowish brown, blended with clay balls
10	24	R	118	9.4	1		
15	13	R	98	22.1	1,2,5	SM	NATURAL GROUND - SAND, very silty, fine grained, medium dense, moist, light brown
						ML	SILT, very sandy, fine grained, stiff, very moist, pink, with saturated lenses of sand
20	10	S		24.7		CH	CLAY, slightly sandy, fine grained, stiff, very moist, pink
25	14	S		27.9	1,2		Trace sand
30	21	S		25.1			Very stiff, with thin saturated lenses of sand
35							

ADDITIONAL TESTS: 1=Sieve Analysis 2=Atterberg Limits 3=Direct Shear 4=R-Value 5=Other  
Figure: 6

**LOG OF TEST HOLE NO. 4 cont'd**

Project: Paseo del Norte Extension Project No.: 03-1-449  
 Elevation - Top of Test Hole: N/A Date Drilled: 12/16/2003  
 Depth to Groundwater: Not Encountered Drilling Method: 7" H.S.A.

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
40	25	S		25.1	1,2		Pink to reddish brown
45	51	S		22.1			Hard, moist, pink, with occasional thin lenses of silt
50	43	S		24.2	1,2		Pink to reddish brown
55							Bottom of hole at 51 1/2'
60							
65							
70							

ADDITIONAL TESTS: 1=Sieve Analysis 2=Atterberg Limits 3=Direct Shear 4=R-Value 5=Other  
Figure: 5 cont'd

**LOG OF TEST HOLE NO. 5**

Project: Paseo del Norte Extension Project No.: 03-1-449  
 Elevation - Top of Test Hole: N/A Date Drilled: 12/30/2003  
 Depth to Groundwater: Not Encountered Drilling Method: 7" H.S.A.

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
5		B		15.6	1,2	CL	FILL - CLAY, very sandy, fine to medium grained, trace gravel, moist, medium brown, blended with silty sand, cobbles and concrete debris
10	23	R	115	5.2	1,2,5	SM	NATURAL GROUND - SAND, silty, fine grained, medium dense, medium moist, medium brown
						SP-SM	SAND, slightly silty, fine to medium grained, trace gravel, medium dense, medium moist, light brown
15	14	S		24.6		CL	CLAY, sandy, fine grained, stiff, very moist, light pinkish brown, with thin lenses of silt and sand
20	26	S		19.6	1,2		Slightly sandy, very stiff, moist
25	18	S		19.3			
30	38	S		19.4		ML	SILT, sandy, fine grained, stiff, moist, pink
35							

ADDITIONAL TESTS: 1=Sieve Analysis 2=Atterberg Limits 3=Direct Shear 4=R-Value 5=Other  
Figure: 6

**LOG OF TEST HOLE NO. 5 cont'd**

Project: Paseo del Norte Extension Project No.: 03-1-449  
 Elevation - Top of Test Hole: N/A Date Drilled: 12/30/2003  
 Depth to Groundwater: Not Encountered Drilling Method: 7" H.S.A.

Depth, feet	Blows/foot	Sample Type	Dry Density pcf	Water Content, %	Additional Testing	Unified Classification	Material Description
40	33	S		21.1		ML	SILT, sandy, fine grained, stiff, moist, pink
						CH	CLAY, trace sand, fine grained, very stiff, moist, pink to reddish brown
45	39	S		3.6	1	SM	SAND, very silty, fine to medium grained, dense, medium moist, light brown, with thin lenses of red clay
50	48	S		1.2		SP-SM	SAND, slightly silty, fine to coarse grained, slight gravel, dense, slightly moist, light brown
55							Bottom of hole at 51 1/2'
60							
65							
70							

ADDITIONAL TESTS: 1=Sieve Analysis 2=Atterberg Limits 3=Direct Shear 4=R-Value 5=Other  
Figure: 6 cont'd



NOTE:  
 DRILL HOLE INFORMATION - THE CITY OF ALBUQUERQUE IS NOT RESPONSIBLE FOR ANY INTERPRETATION OR ASSUMPTIONS MADE BY THE CONTRACTOR BASED ON THE DRILL-HOLE INFORMATION SHOWN ON THE PLANS.

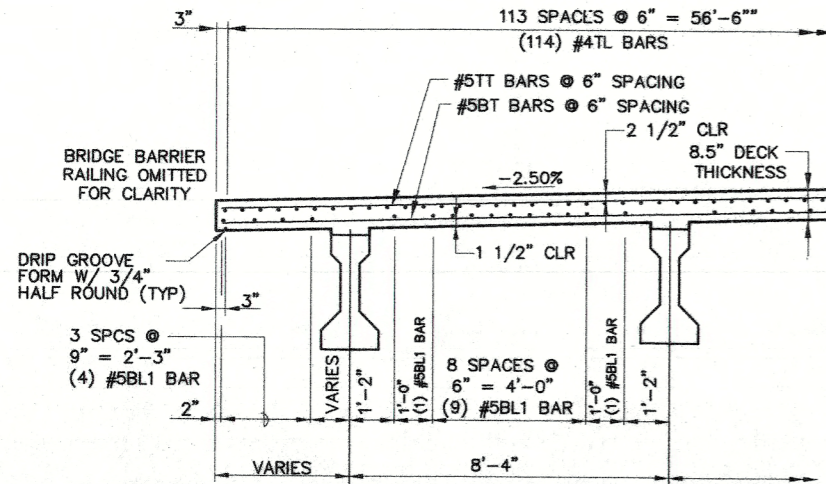
BRIDGE NO. 9380  
 STA. 61+28.70  
 SKEW 9°00'00" R.F.

CITY OF ALBUQUERQUE  
 DEPARTMENT OF MUNICIPAL DEVELOPMENT  
 TRANSPORTATION DIVISION

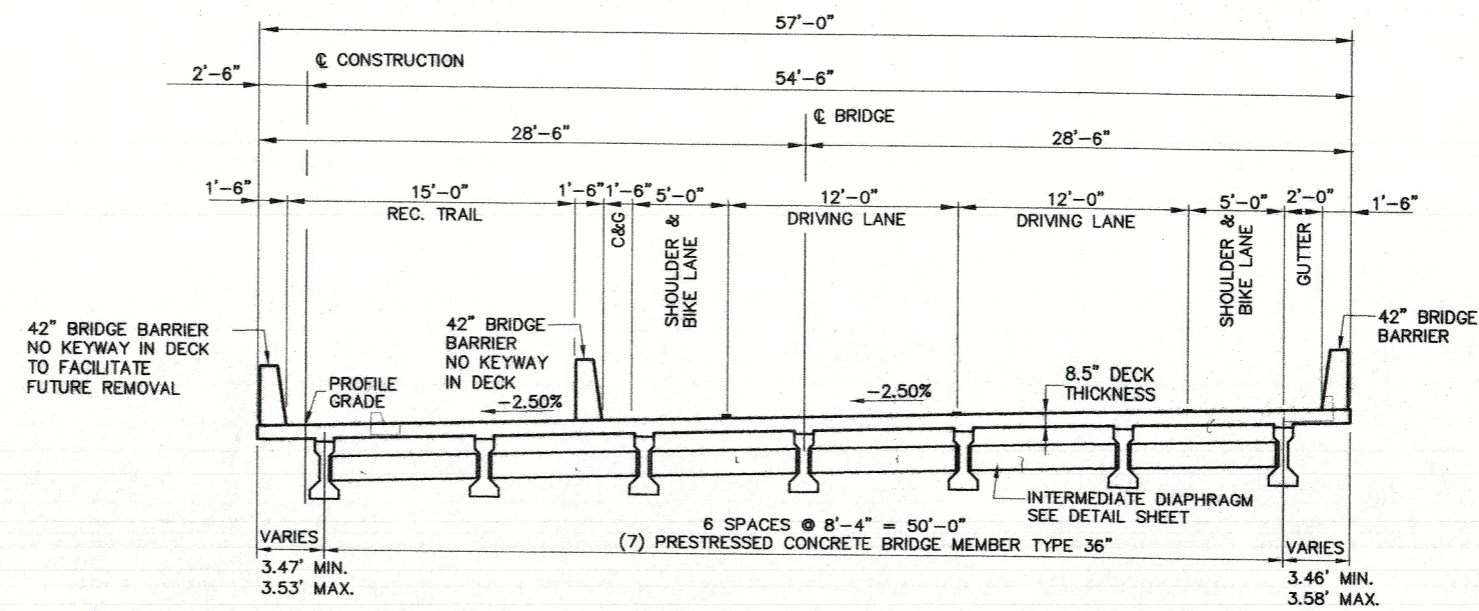
PASEO DEL NORTE EXTENSION  
 BORING LOG SUMMARY

DESIGN REVIEW COMMITTEE APPROVE DEC 18 2005 DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL APPROVE DEC 18 2005 CITY ENGINEER	NO. / DAY / YR.	NO. / DAY / YR.
City Project No. COA 704902	Zone Map No. C - 11	Sheet 31	Of 110

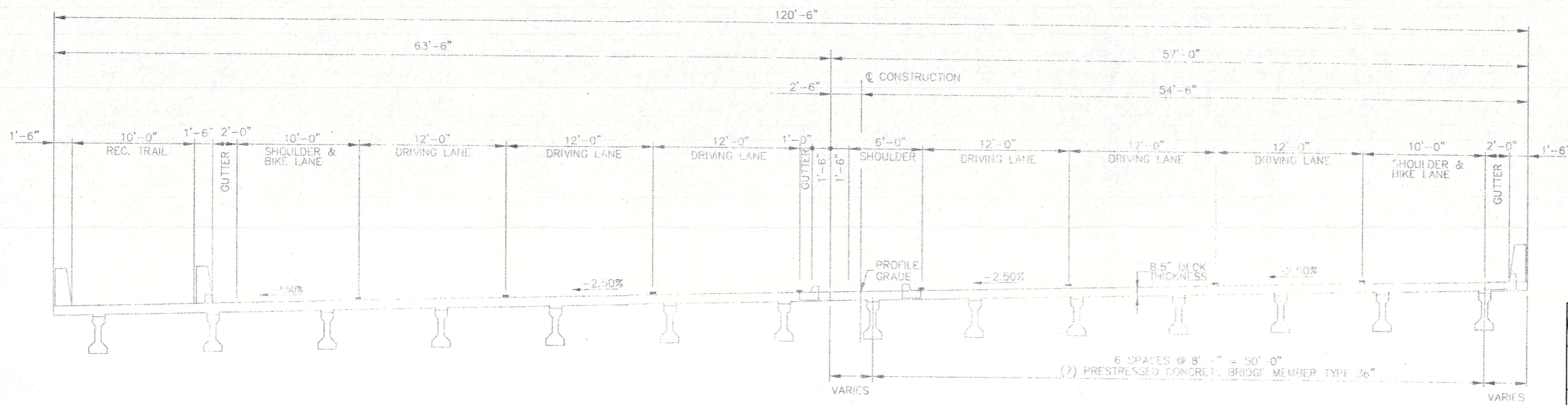
AS BUILT INFORMATION	
CONTRACTOR	DATE
WORK	DATE
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE
BENCH MARKS	
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	DATE
Near Intersection of Ridgeway Dr. & Calle Nortena	DATE
Geographic Position (NAD 27), in feet	DATE
N.M. State Plane Coordinates (Central Zone)	DATE
X=368,041.86, Y=1,919,125.33	DATE
Elevation=5272.34 NGVD28, in feet	DATE
SURVEY INFORMATION	
FIELD NOTES	DATE
BY	DATE
NO.	DATE
ENGINEER'S SEAL	
REMARKS	BY
DESIGN	DATE 11/05
DRAWN BY: VRY	DATE 11/05
CHECKED BY: MC	DATE 11/05



**PARTIAL TYPICAL TRANSVERSE SECTION**  
SCALE = 1:10



**INTERIM TYPICAL TRANSVERSE SECTION**  
SCALE = 1:5



**ULTIMATE TYPICAL TRANSVERSE SECTION**  
SCALE = 1:5

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	CONTRACTOR	DATE	FIELD NOTES	NO.		NO. DATE BY DATE REMARKS DATE DESIGN DATE DESIGNED BY: DB DATE 11/05 DRAWN BY: VRV DATE 11/05 CHECKED BY: MG DATE 11/05
WORK ORDER NO.	DATE	ACROSS THE BOARD	DATE	NO.	NO.		
ACCEPTANCE BY	DATE	ACROSS THE BOARD	DATE	NO.	NO.		
VERIFICATION BY	DATE	ACROSS THE BOARD	DATE	NO.	NO.		
DRAWN BY	DATE	ACROSS THE BOARD	DATE	NO.	NO.		
RECORDED BY	DATE	ACROSS THE BOARD	DATE	NO.	NO.		
MICRO-FILM INFORMATION	NO.	ACROSS THE BOARD	DATE	NO.	NO.		

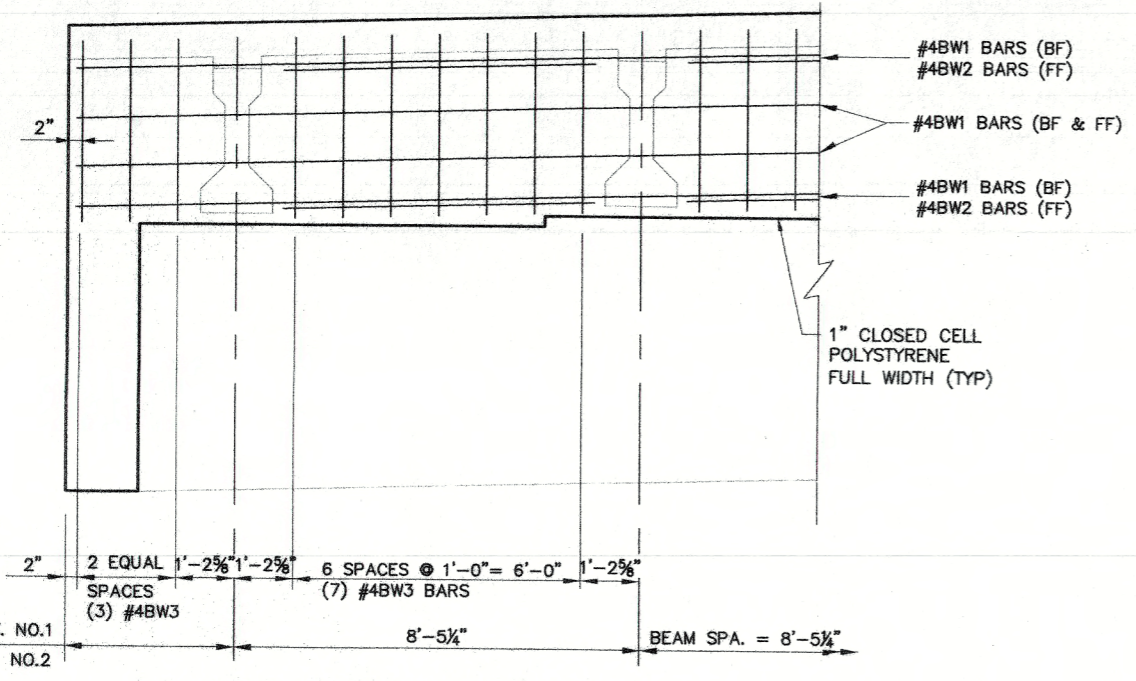
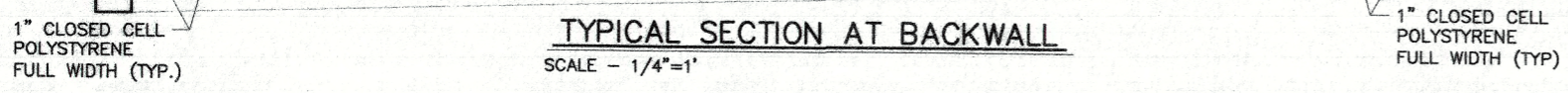
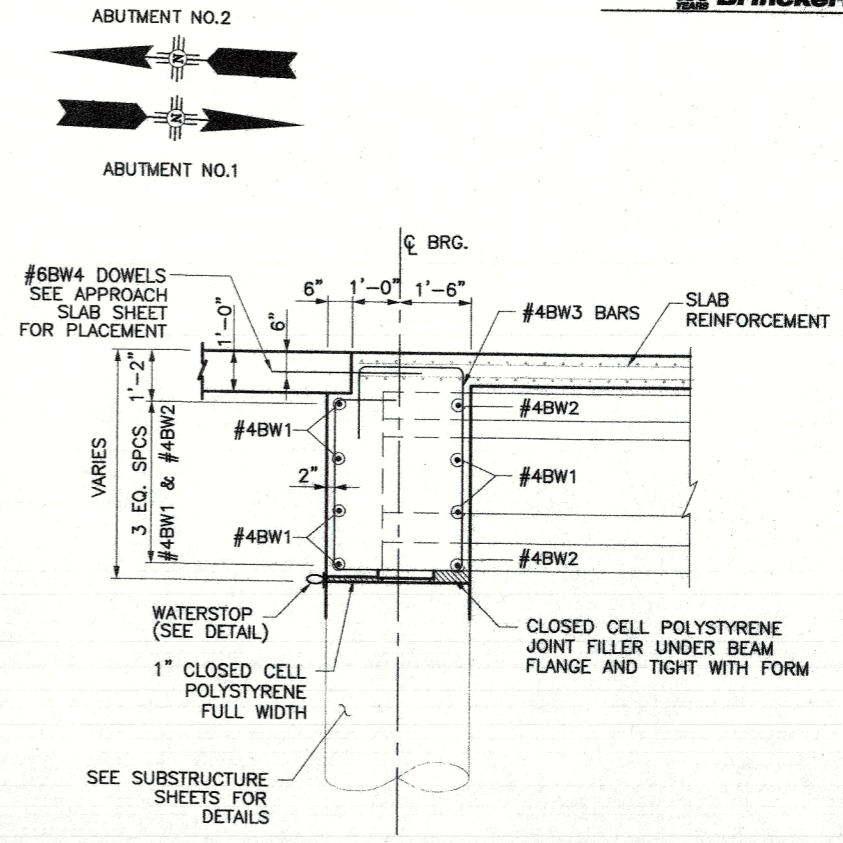
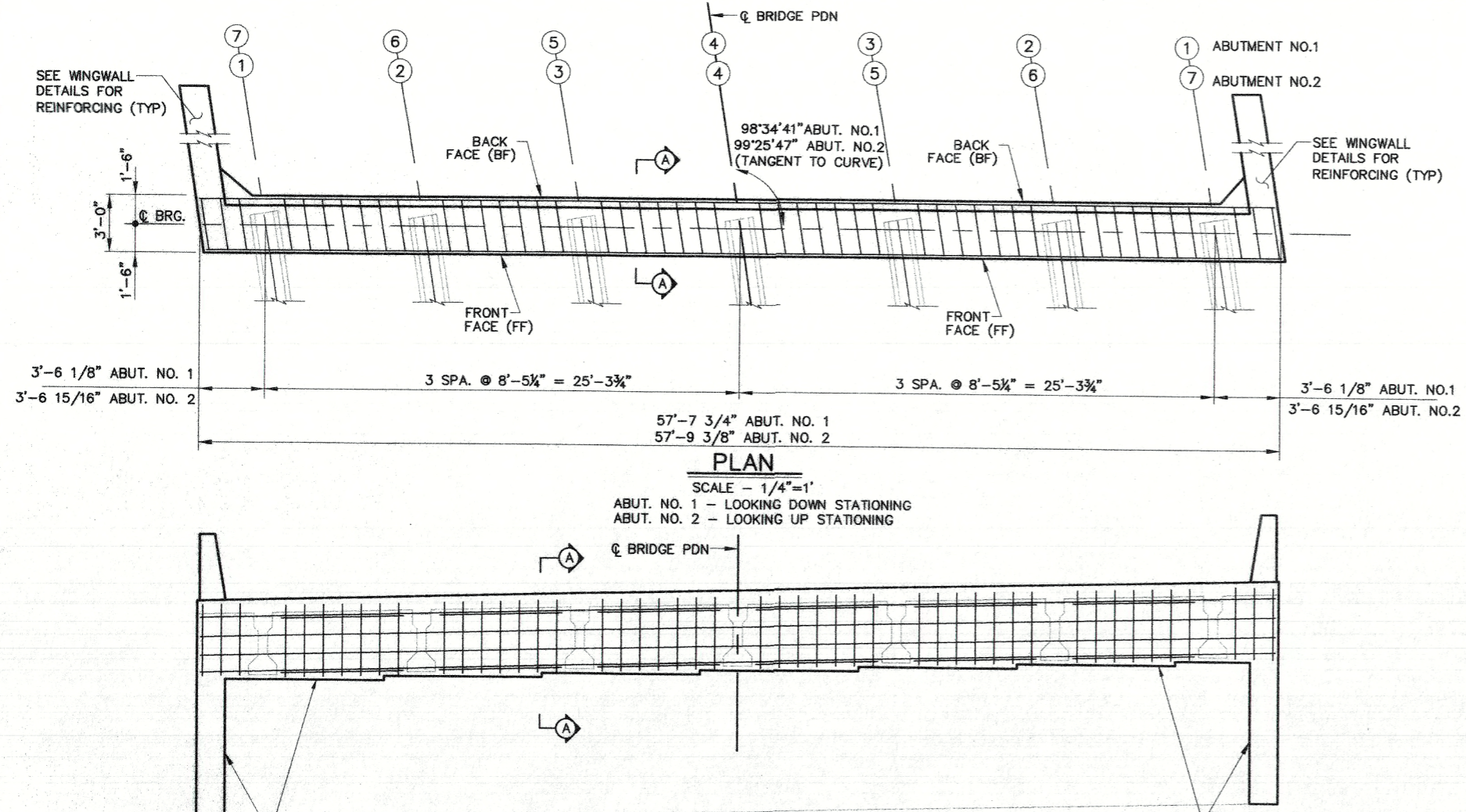
BRIDGE NO. 9380  
STA. 61+28.70  
SKEW 9°00'00" R.F.

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
TRANSVERSE SECTION

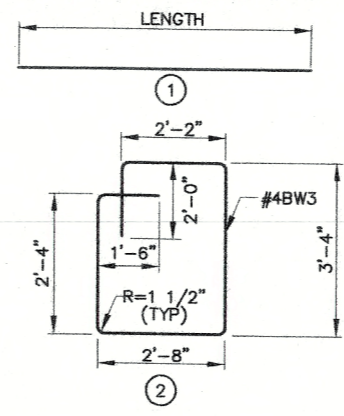
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVE DEC 1 & 2005 DESIGN REVIEW COMMITTEE	APPROVE DEC 1 & 2005 CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 32 Of 116

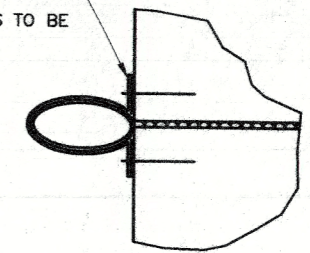


EPOXY COATED GRADE 60 BARS				
BAR	TYPE	SIZE	LENGTH	NO. REQ'D
#4BW1	1	4	57'-3"	6
#4BW2	1	4	6'-6"	12
#4BW3	2	4	14'-0"	48
#6BW4	1	6	6'-0"	68

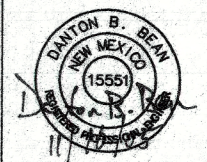
REINFORCEMENT SHOWN IS FOR ABUTMENT NO.1 BACKWALL  
ABUTMENT NO.2 BACKWALL SIMILAR



WATERSTOP, GREENSTEAK TEAR WEB STYLE 700 OR APPROVED EQUAL. ANCHOR TO DIAPHRAGM AND ABUTMENT 1/2" X 3/8" PLATES AND 1/2" GALVANIZED. EMBED BOLTS 6" INTO CONCRETE AND EPOXY GROUT AS PER SECTION 522. INSTALLATION OF THE WATERSTOP, (INCLUDING FURNISHING OF THE WATERSTOP, THE STEEL PLATES AND BOLTS) WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION. THE 4" X 3/8" PLATES ARE TO BE CONTINUOUSLY PLACED ALONG THE LENGTH OF THE ABUTMENT BUT MAY BE BUTT JOINED AT INTERVALS NOT TO EXCEED 20'.



AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	CONTRACTOR	DATE	NO.	BY	NO.	DATE
INSPECTOR'S SIGNATURE	DATE	ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	DATE				
FIELD VERIFICATION BY	DATE	Near Intersection of Ridgeway Dr. & Calle Nortena	DATE				
RECORDED BY	DATE	Geographic Position (NAD 27), in feet	DATE				
		N.M. State Plane Coordinates (Central Zone)	DATE				
		X=366,041.86, Y=1,919,125.33	DATE				
		Elevation=5272.34 NGVD29, in feet	DATE				
MICRO-FILM INFORMATION		MICRO-FILM INFORMATION		MICRO-FILM INFORMATION		MICRO-FILM INFORMATION	
RECORDED BY	NO.	RECORDED BY	NO.	RECORDED BY	NO.	RECORDED BY	NO.



BRIDGE NO. 9380  
STA. 61+28.70  
SKEW 9'00'00" R.F.

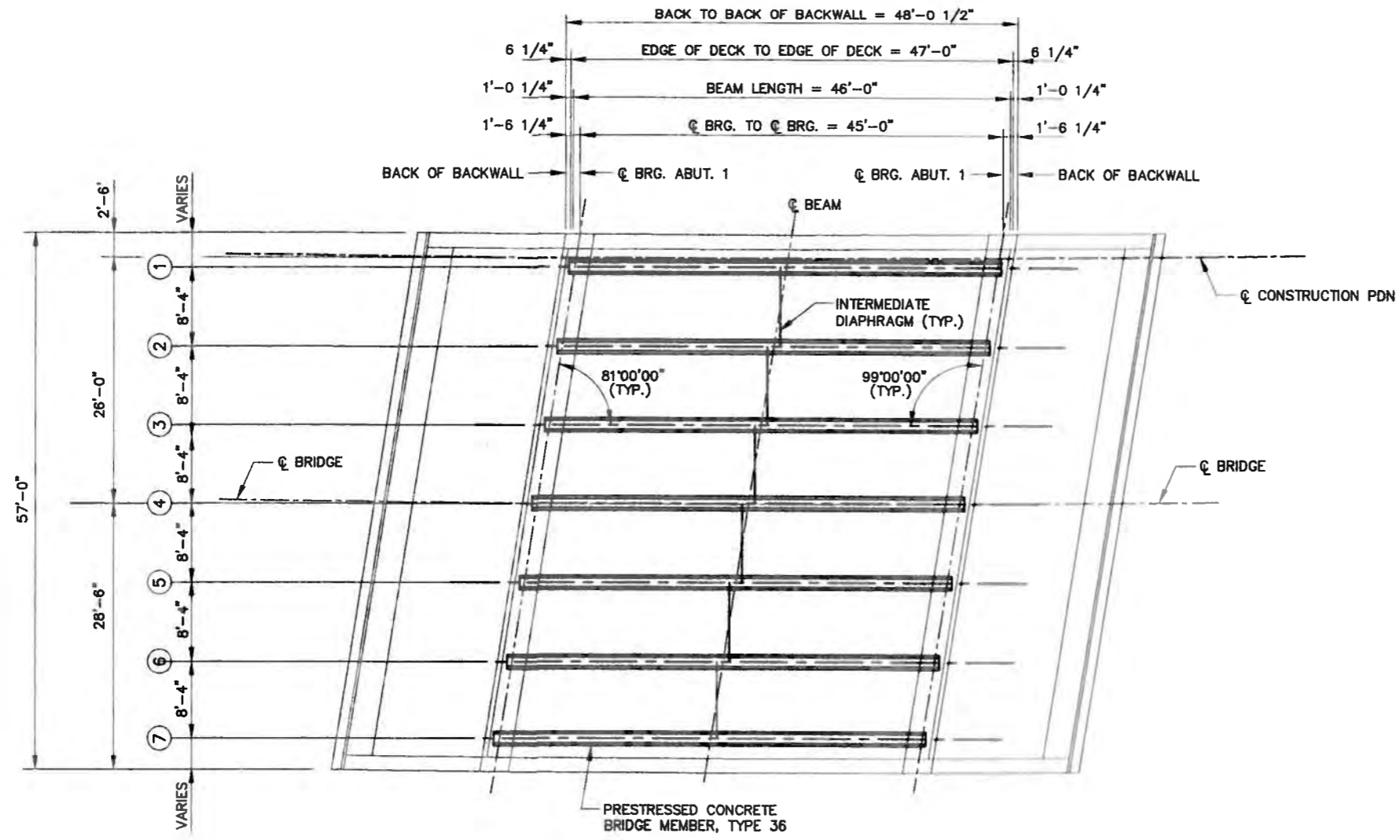
CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
ABUTMENT BACKWALL

DESIGNED BY: DB DATE 11/05  
DRAWN BY: VRY DATE 11/05  
CHECKED BY: MG DATE 11/05

DESIGN REVIEW COMMITTEE: DEC 1 2 2005  
CITY ENGINEER APPROVAL: DEC 1 2 2005

City Project No. COA 704902  
Zone Map No. C - 11  
Sheet 33 Of 116



**FRAMING PLAN**  
SCALE: 1/8" = 1'

AS BUILT INFORMATION	
CONTRACTOR	NO.
WORK	DATE
STARTED BY	DATE
INSPECTED BY	DATE
FIELD CHECKED BY	DATE
APPROVED BY	DATE
CORRECTED BY	DATE
RECORDED BY	DATE

BENCH MARKS	
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	
Near Intersection of Ridgeway Dr. & Calle Nortena	
Geographic Position (NAD 27), in feet	
N.M. State Plane Coordinates (Central Zone)	
X=386,041.88, Y=1,519,125.33	
Elevation=5272.34-NOV029, in feet	

SURVEY INFORMATION	
FIELD NOTES	DATE
BY	BY
NO.	NO.

ENGINEER'S SEAL	
REMARKS	BY
DESIGN	DB
DATE	DATE
11/05	11/05
DRAWN BY: VRY	CHECKED BY: MG
DATE	DATE
11/05	11/05

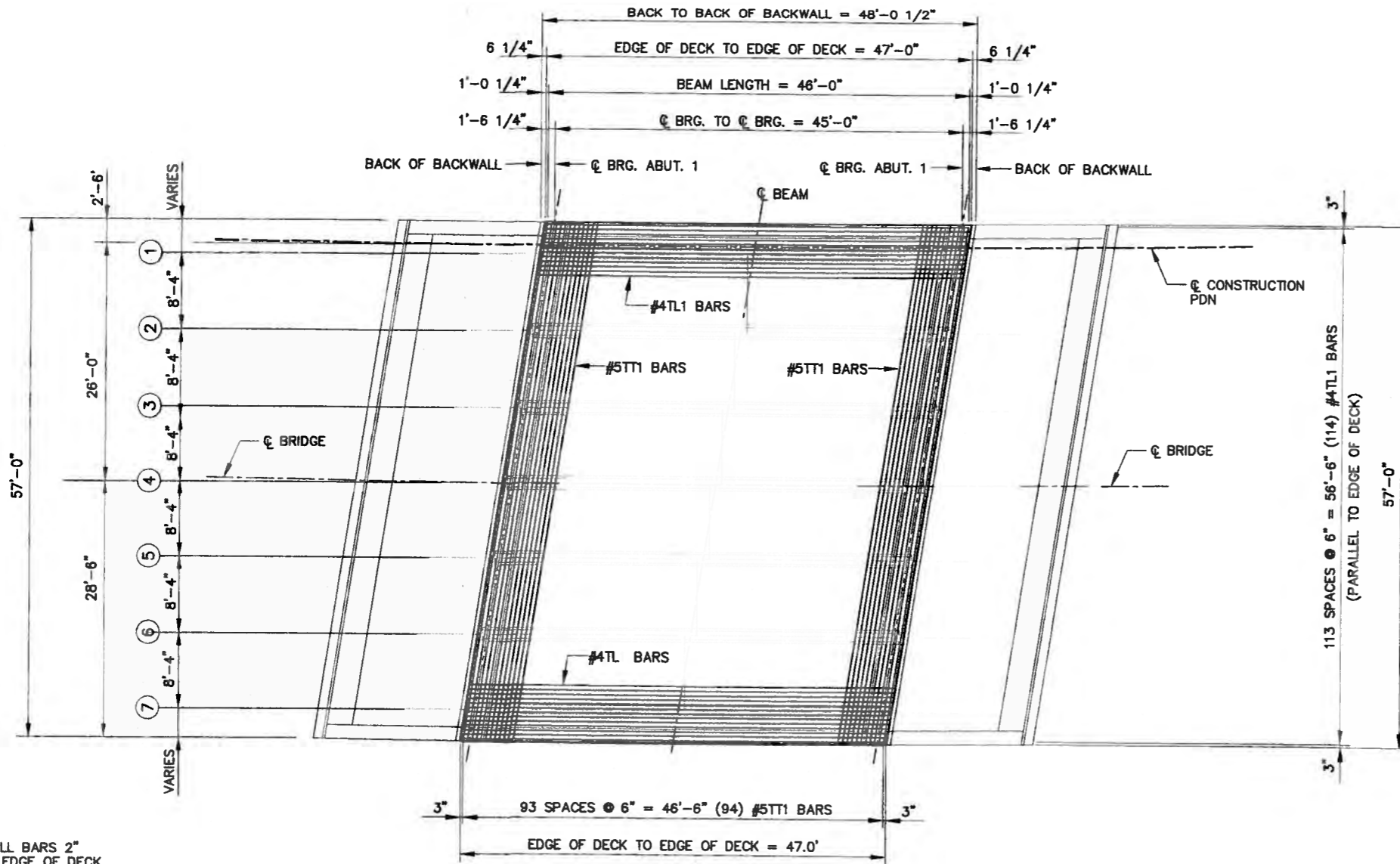
BRIDGE NO. 9380  
STA. 61+28.70  
SKEW 9'00'00" R.F.

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
FRAMING PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER

City Project No. COA 704902	Zone Map No. C - 11	Sheet 34	Of 116
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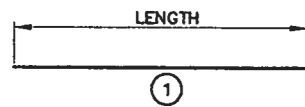


**NOTE:**  
1. BEGIN ALL BARS 2"  
FROM THE EDGE OF DECK.

EPOXY COATED GRADE 60 BARS				
BAR	TYPE	SIZE	LENGTH	NO. REQ'D
#4TL1	1	4	46'-8"	114
#5TT1	1	5	57'-4"	94

**DECK REINFORCING PLAN - TOP MAT STEEL (EPOXY COATED)**

SCALE: 1/8" = 1'



AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	CONTRACTOR	DATE	NO.	BY	NO.	DATE
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"		Near Intersection of Ridgeway Dr. & Calle Narteno					
INSPECTOR'S ACCEPTANCE BY	DATE	Geographic Position (NAD 27), in feet					
DRAWINGS BY	DATE	N.M. State Plane Coordinates (Central Zone)					
RECORDED BY	DATE	X=366,041.86, Y=1,519,125.33					
		Elevation=5272.34 NGVD28, in feet					



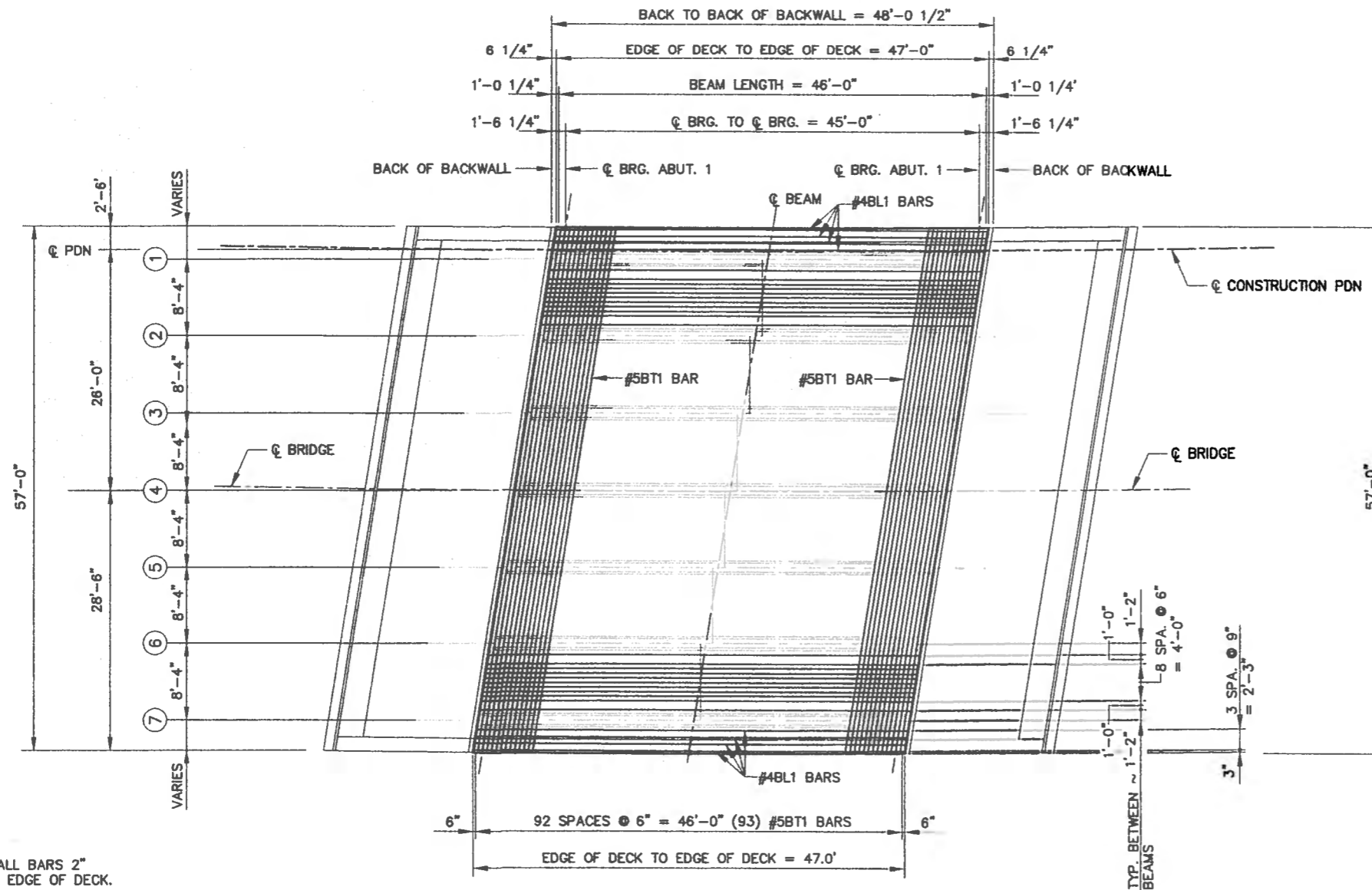
BRIDGE NO. 9380  
STA. 61+28.70  
SKEW 9'00"00" R.F.

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
DECK REINFORCING PLAN - TOP MAT

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	NO. / DAY / YR.	NO. / DAY / YR.
APPROVE DEC 1 2 2005	APPROVE DEC 1 2 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

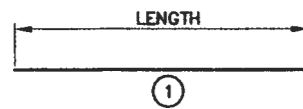
City Project No. COA 704902      Zone Map No. C - 11      Sheet 35 Of 116



NOTE:  
1. BEGIN ALL BARS 2"  
FROM THE EDGE OF DECK.

EPOXY COATED GRADE 60 BARS				
BAR	TYPE	SIZE	LENGTH	NO. REQ'D
#4BL1	1	4	48'-8"	114
#5BT1	1	5	57'-4"	93

**DECK REINFORCING PLAN - BOTTOM MAT STEEL (EPOXY COATED)**  
SCALE: 1/8" = 1'



AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION	
CONTRACTOR	DATE	ACCS 3 1/4" Aluminum Cap stamped "ACS 1-011"	NEAR INTERSECTION OF RIDGWAY DR. & CILIA MARTINEZ	FIELD NOTES	NO.
BY	DATE	Geographic Position (NAD 27), in feet		BY	DATE
BY	DATE	N.M. State Plane Coordinates (Central Zone)		BY	DATE
BY	DATE	X=368,041.88, Y=1,518,125.33		BY	DATE
BY	DATE	Elevation=6272.34 NAVD83, in feet		BY	DATE
MICRO-FILM INFORMATION					
RECORDED BY	DATE				
NO.					



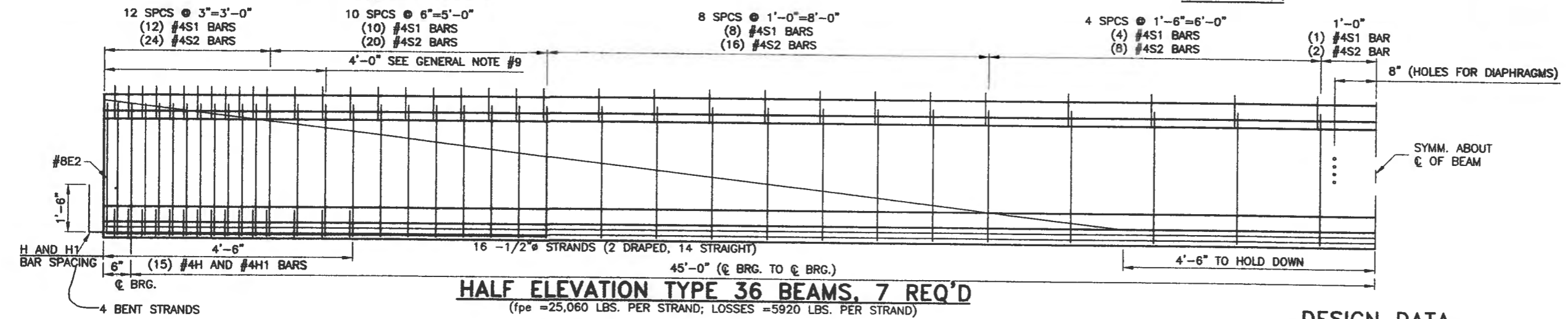
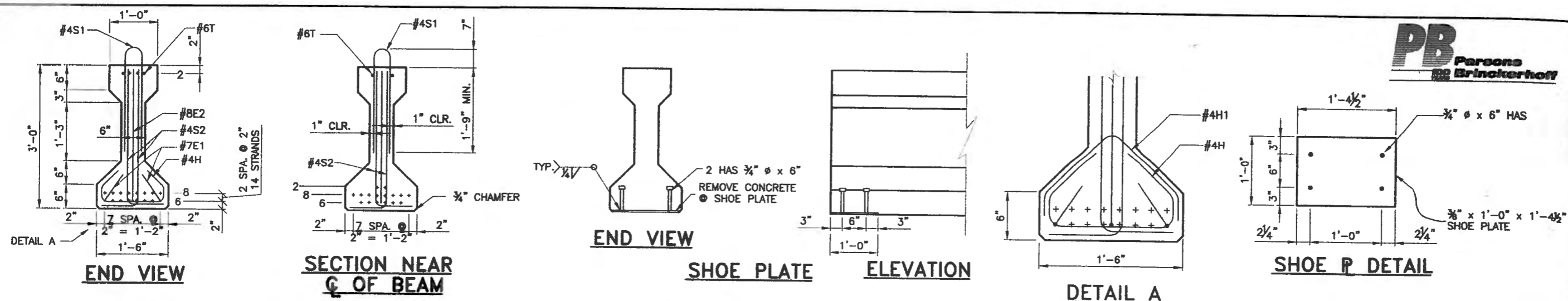
BRIDGE NO. 9380  
STA. 61+28.70  
SKEW 9'00"00" R.F.

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
DECK REINFORCING PLAN - BOTTOM MAT

APPROVE DEC 1 2 2005 DESIGN REVIEW COMMITTEE	APPROVE DEC 1 2 2005 CITY ENGINEER	NO. / DATE / FILE	NO. / DATE / FILE
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WEIGHT	CAMBER @ RELEASE	CAMBER @ ERECTION	DEAD LOAD DEFLECTION
8.9 TONS	0.70 in.	1.20 in.	0.40 in.

**BEAM DATA**

BAR	TYPE	BEAM				NO. REQ'D	BAR BENDING DIAGRAM
		SIZE	"R"	"X"	LENGTH		
E1	(2)	#7	3/8"	8'-0"	8'-8"	4	
E2	(2)	#8	3/8"	2'-8"	10'-8"	2	
S1	(4)	#4	1 1/4"	2'-3"	4'-11"	69	
S2	(2)	#4	1 1/2"	2'-9"	3'-4"	137	
H	(3)	#4	1 1/2"		3'-1 1/2"	15	
H1	(5)	#4	1 1/2"		2'-4"	15	
T	(1)	#4			45'-8"	2	

**REINFORCING BARS REQ'D FOR ONE BEAM**

**GENERAL NOTES**

- COST OF REINFORCING BARS AND STRUCTURAL STEEL EMBEDDED IN BRIDGE BEAMS IS TO BE INCLUDED IN THE UNIT PRICE BID FOR PRESTRESSED CONCRETE BRIDGE MEMBER TYPE 36.
- BEAMS TO BE LIFTED BY MEANS OF DEVICES SATISFACTORY TO THE FABRICATOR. BEAMS TO BE CAST, STORED, AND HAULED IN UPRIGHT POSITION. LIFTING DEVICES MUST BE APPROVED BY THE ENGINEER PRIOR TO USE.
- THE TOP SURFACES OF THE BEAMS ARE TO BE THOROUGHLY WIRE BRUSHED AND SCORED TRANSVERSELY AFTER INITIAL SET (MIN. DEPTH = 1/4" ACROSS ENTIRE FLANGE WIDTH).
- THE CAMBER AT ERECTION DIMENSION LISTED IS THE CALCULATED VALUE DUE TO THE EFFECT OF PRESTRESSING WITH THE WEIGHT OF THE BEAM ACTING, WITH AN ALLOWANCE FOR CAMBER GROWTH TO 90 DAYS. THE CONTRACTOR SHALL LIMIT THE CAMBER GROWTH TO A VALUE NOT TO EXCEED THE PREDICTED CAMBER AT ERECTION DIMENSION BY 1 INCH AT THE TIME OF DECK SLAB PLACEMENT. CAMBER GROWTH IS TO BE LIMITED BY WEIGHTING, FABRICATION SCHEDULING OR OTHER APPROVED MEANS.
- DEAD LOAD DEFLECTION IS THE COMPUTED DEFLECTION DUE TO WEIGHT OF SLAB, DIAPHRAGMS, AND SUPERIMPOSED DEAD LOAD.
- THE DESIGN SHOWN IS BASED ON THE USE OF 1/2" DIAMETER LOW-RELAXATION STRANDS MEETING THE REQUIREMENTS OF AASHTO M-203 (GRADE 270). INITIAL PRESTRESSING FORCE SHALL BE 30,975 LBS. PER STRAND. SLIGHT OVERSTRESSING UP TO 33,000 LBS. PER STRAND WILL BE ALLOWED TO OFFSET SEATING LOSSES. THE DESIGN IS BASED ON 1/2" Ø STRAND.
- TYPE III CEMENT MAY BE USED AT THE FABRICATOR'S OPTION.
- SHOE PLATES MUST BE STRAIGHTENED PRIOR TO CASTING INTO BEAM.
- REINFORCING BARS PROJECTING FROM THE TOP OF THE GIRDER AND ALL REINFORCING LOCATED WITHIN FOUR FEET OF GIRDER ENDS DECK SHALL BE GALVANIZED OR UNCOATED CORROSION RESISTANT STEEL.

**DESIGN DATA**

DESIGN ACCORDING TO A.A.S.H.T.O. STANDARD SPECIFICATIONS DATED 2002 AND CURRENT INTERIMS.

BEAMS:  
 $f'_{ci}$  (MIN. COMPRESSIVE STRENGTH OF CONCRETE AT TIME OF INITIAL PRESTRESS) = 5.50 ksi.  
 $f'_c$  = 6.5 ksi (ULTIMATE COMPRESSIVE STRENGTH)

PRESTRESSING STEEL:  
 1/2" DIAMETER SEVEN WIRE LOW RELAXATION STRANDS.  
 $f_{pu}$  = 41.3 KIPS PER STRAND;  
 $f_{py}$  = 37.2 KIPS PER STRAND.

CONVENTIONAL REINFORCING BARS:  
 $f_y$  = 60 KSI

COMPOSITE SLAB:  
 $f'_c$  = 4.0 KSI  
 ALLOWANCE FOR FUTURE WEARING SURFACE = 30 psf  
 LIVE LOAD = HS20-44.  
 STAY-IN-PLACE DECK FORM = 15 psf.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	CONTRACTOR	DATE	NO.	BY	REMARKS	DESIGN
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"		Near Intersection of Rialway Dr. & Coda Northing					DATE 11/05
CONSTRUCTION BY	DATE	CONSTRUCTION BY	DATE				DATE 11/05
INSPECTION BY	DATE	INSPECTION BY	DATE				DATE 11/05
MICRO-FILM INFORMATION				NO. DATE			
RECORDED BY				DESIGNED BY: DB			
NO.				DRAWN BY: WRV			
				CHECKED BY: MC			

BRIDGE NO. 9380  
 STA. 61+28.70  
 SKEW 9'00"00" R.F.

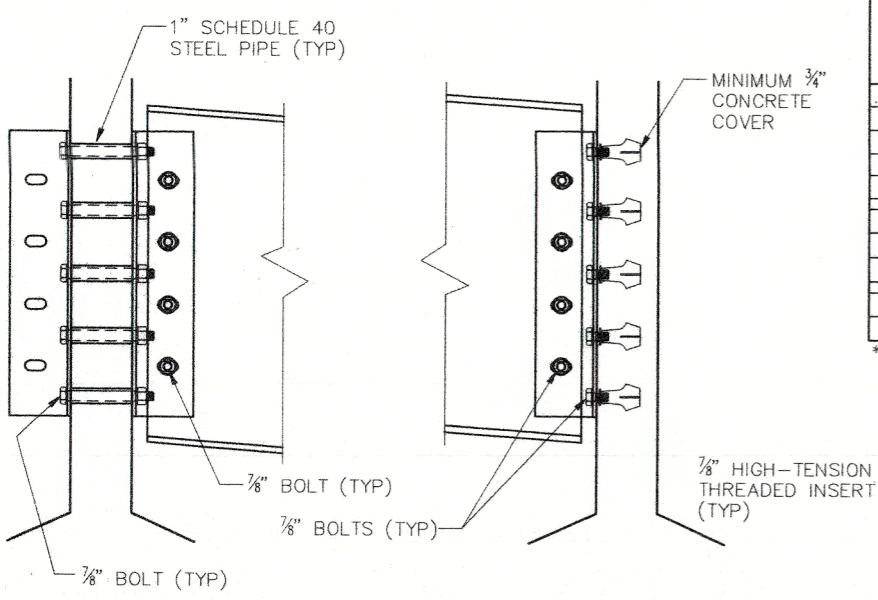
CITY OF ALBUQUERQUE  
 DEPARTMENT OF MUNICIPAL DEVELOPMENT  
 TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
 PRESTRESSED CONCRETE BRIDGE MEMBER TYPE 36

APPROVE DEC 1 2 2005 DESIGN REVIEW COMMITTEE

APPROVE DEC 1 2 2005 CITY ENGINEER

City Project No. COA 704902 Zone Map No. C - 11 Sheet 38 Of 116



**INTERIOR GIRDER CONNECTION DETAIL**

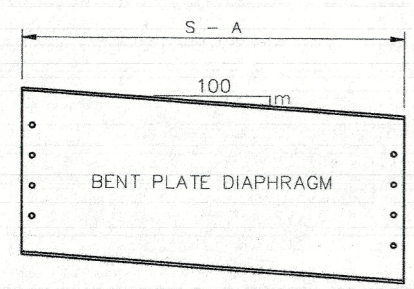
**EXTERIOR GIRDER CONNECTION DETAIL**

PRESTRESSED CONCRETE BEAM TYPE	H (in)	A (in)	B (in)	C (in)	D (in)	L (in)	N	S1 (in)	DIAPHRAGM UNIT WEIGHT (lb/ft)*	CLIP ANGLE WEIGHT (lb)	BACK PLATE WEIGHT (lb)
TYPE 36	15	9	4 1/2	12	3 1/2	13	3	3	28	16	7
TYPE 45	15	10	4 1/2	16 1/2	3 1/2	13	3	3	28	16	7
TYPE 54	21	11	6 1/2	19 1/2	4	16	3	4	36	20	9
TYPE 63	33	11	7 1/2	16 1/2	5	28	4	6	51	35	15
TYPE 72	33	11	7 1/2	21	5	28	4	6	51	35	15
TYPE BT-54	33	9	7 1/2	13 1/2	5	28	4	6	51	35	15
TYPE BT-63	33	9	7 1/2	18	5	28	4	6	51	35	15
TYPE BT-72	33	9	7 1/2	22 1/2	5	28	4	6	51	35	15
TYPE 63-MODIFIED	33	9	7 1/2	16 1/2	5	28	4	6	51	35	15
TYPE 72-MODIFIED	33	9	7 1/2	21	5	28	4	6	51	35	15

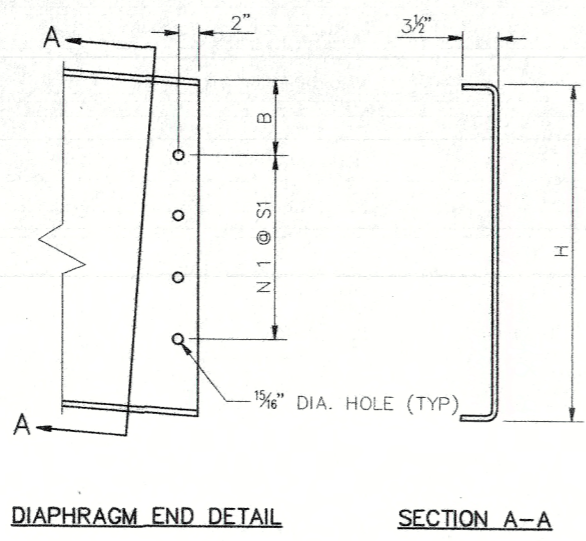
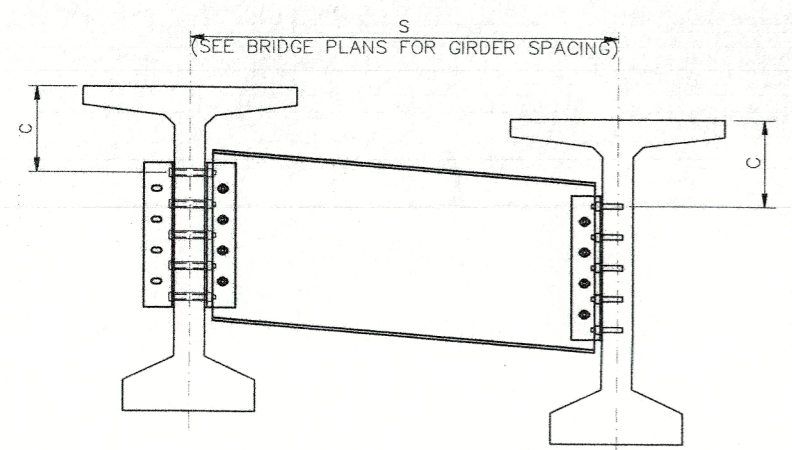
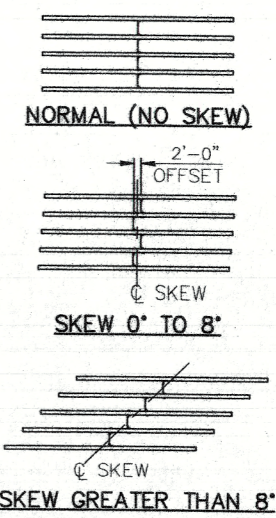
\* MULTIPLY BY DIAPHRAGM LENGTH (S - A) TO OBTAIN TOTAL DIAPHRAGM WEIGHT.

**GENERAL NOTES**

- 1) ALL STRUCTURAL STEEL ELEMENTS IN THIS DETAIL SHALL BE COMPOSED OF WEATHERING STEEL CONFORMING TO AASHTO M 270, GRADE 50W, OR HOT-DIPPED GALVANIZED STEEL CONFORMING TO AASHTO M 270, GRADE 36. IF WEATHERING STEEL IS USED, ALL ELEMENTS SHALL BE SAND BLASTED TO SSPC SP-6 AND WET PRIOR TO SHIPPING. PAINTING OF THESE ELEMENTS IS NOT REQUIRED.
- 2) BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A 307. IF WEATHERING STEEL IS USED FOR THIS DETAIL, TYPE 3 WEATHERING STEEL BOLTS SHALL BE USED. IF GALVANIZED STEEL ELEMENTS ARE USED, BOLTS SHALL BE GALVANIZED AS PER AASHTO M 298.
- 3) FOR BRIDGES WITHOUT SKEW, THE INTERIOR GIRDER CONNECTION DETAIL SHALL BE USED AS SHOWN. FOR SKEWED BRIDGES, THE OPPOSING CLIP ANGLE SHALL BE REPLACED WITH THE BACK PLATE SHOWN BELOW. DIAPHRAGMS SHALL BE OFFSET ON ALL SKEWED BRIDGES TO FACILITATE THE INSTALLATION OF THE BACK PLATES.
- 4) THE VERTICAL DISTANCE BETWEEN ANY TWO HOLES OR INSERTS SHALL NOT VARY FROM THE SPECIFIED DISTANCE BY MORE THAN 1/8". ALSO, THE TOTAL LENGTH OF THE GROUP OF HOLES OR INSERTS SHALL NOT VARY FROM THE DESIGN LENGTH BY MORE THAN 1/8". THE PRESTRESSED GIRDER FABRICATOR SHALL TAKE APPROPRIATE MEASURES TO ENSURE PROPER PLACEMENT OF INSERTS DURING THE GIRDER FABRICATION PROCESS.
- 5) CLIP ANGLES AND BACK PLATES SHALL BE ATTACHED TO THE PRESTRESSED GIRDER AT THE GIRDER FABRICATION SITE PRIOR TO TRANSPORT. DIAPHRAGM INSTALLATION SHALL BE COMPLETED PRIOR TO DECK PLACEMENT.
- 6) BENT PLATE DIAPHRAGMS, CLIP ANGLES AND BACK PLATES SHALL BE PAID FOR UNDER ITEM 541000 - STRUCTURAL STEEL FOR CONCRETE BRIDGES. BOLTS, NUTS AND WASHERS ARE INCIDENTAL TO ITEM 541000 - STRUCTURAL STEEL FOR CONCRETE BRIDGES. THREADED INSERTS AND PIPE INSERTS ARE INCIDENTAL TO THE PRESTRESSED CONCRETE BEAMS.
- 7) AT LOCATIONS WHERE STEEL IS BEING FASTENED TO CONCRETE, THE MAXIMUM INSTALLATION TENSION FOR THE BOLTS SHALL NOT EXCEED 10 KIPS. TESTS SHALL BE PERFORMED TO DETERMINE THE TORQUE NECESSARY TO ACHIEVE THE SPECIFIED INSTALLATION TENSION.

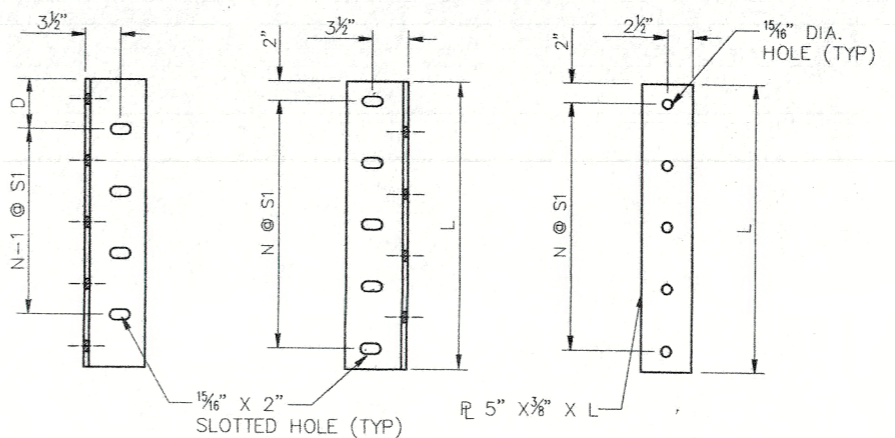


- m = SLOPE OF BENT PLATE DIAPHRAGM (SEE BRIDGE PLANS FOR ELEVATIONS AT CONNECTION POINTS).
- A = THICKNESS OF GIRDER WEB PLUS 3" (SEE TABLE).
- B = DISTANCE FROM TOP OF STEEL DIAPHRAGM TO CENTER OF FIRST HOLE.
- C = DISTANCE FROM TOP OF BEAM TO CENTER OF FIRST INSERT.
- D = DISTANCE FROM CLIP ANGLE EDGE TO CENTER OF FIRST HOLE (CLIP ANGLE/DIAPHRAGM CONNECTION).
- H = DEPTH OF BENT PLATE DIAPHRAGM.
- L = LENGTH OF BACK PLATES AND CLIP ANGLES.
- N = NUMBER OF BOLT SPACES IN GIRDER/CLIP ANGLE CONNECTION.
- S1 = HOLE SPACING.

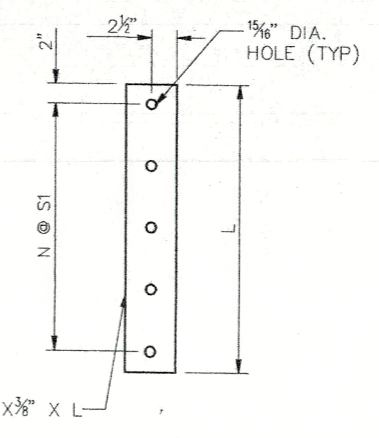


**DIAPHRAGM END DETAIL**

**3/8" BENT PLATE DIAPHRAGM**  
SEE TABLE FOR HEIGHT "H"



**CLIP ANGLE DETAILS**  
L 6 X 6 X 3/8"



**BACK PLATE DETAIL**  
(SEE NOTE 3)

BRIDGE NO. 9380  
STA. 61+28.70  
SKEW 9'00"00" R.F.

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
INTERMEDIATE DIAPHRAGM DETAILS

DESIGN REVIEW COMMITTEE APPROVAL DEC 1 2 2005	CITY ENGINEER APPROVAL DEC 1 2 2005	NO./DAY/YR.	NO./DAY/YR.
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902    Zone Map No. C - 11    Sheet 39 Of 116

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	AC 3 1/4" Aluminum Cap stamped "AC 1-C11"	DATE	FIELD NOTES	NO.		BY: DB DATE: 11/05 VRY: VRY DATE: 11/05 MG: MG DATE: 11/05
INSPECTOR'S SIGNATURE	DATE	Near Intersection of Ridgeway Dr. & Calle Nortena	DATE	NO.	NO.		
FIELD OFFICE BY	DATE	Geographic Position (NAD 27), in feet					
LABORATORY BY	DATE	N.M. State Plane Coordinates (Central Zone)					
CORRECTED BY	DATE	X=366,041.88, Y=1,519,125.33					
MICRO-FILM INFORMATION	DATE	Elevation=5272.34 NGVD29, in feet					
RECORDED BY	DATE						
NO.							

**BEAM SEAT ELEVATIONS**

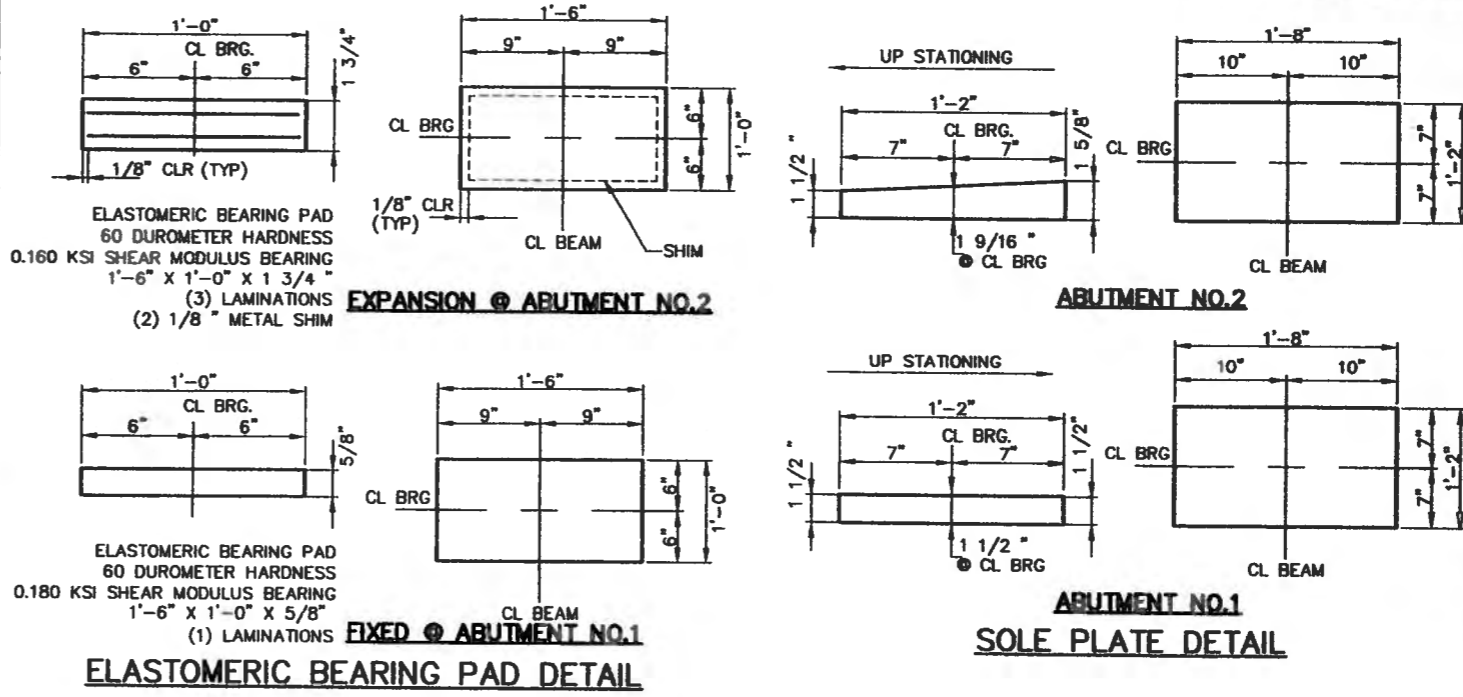


LOCATION	DESCRIPTION	BEAM LINE						
		1	2	3	4	5	6	7
ABUT. NO.1	SLAB ELEV.	5124.890	5125.110	5125.330	5125.550	5125.770	5125.990	5126.210
	SLAB TH.	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	HAUNCH	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	BEAM	36.00	36.00	36.00	36.00	36.00	36.00	36.00
	SOLE PL.	1.50	1.50	1.50	1.50	1.50	1.50	1.50
	BEARING PAD	0.625	0.625	0.625	0.625	0.625	0.625	0.625
	SEAT ELEV.	5120.755	5120.975	5121.195	5121.415	5121.635	5121.855	5122.075

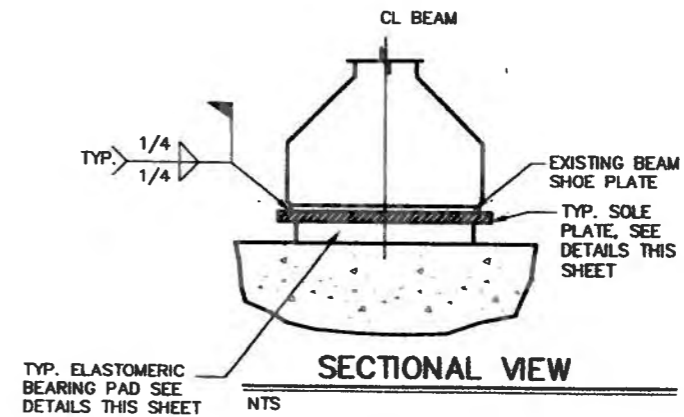
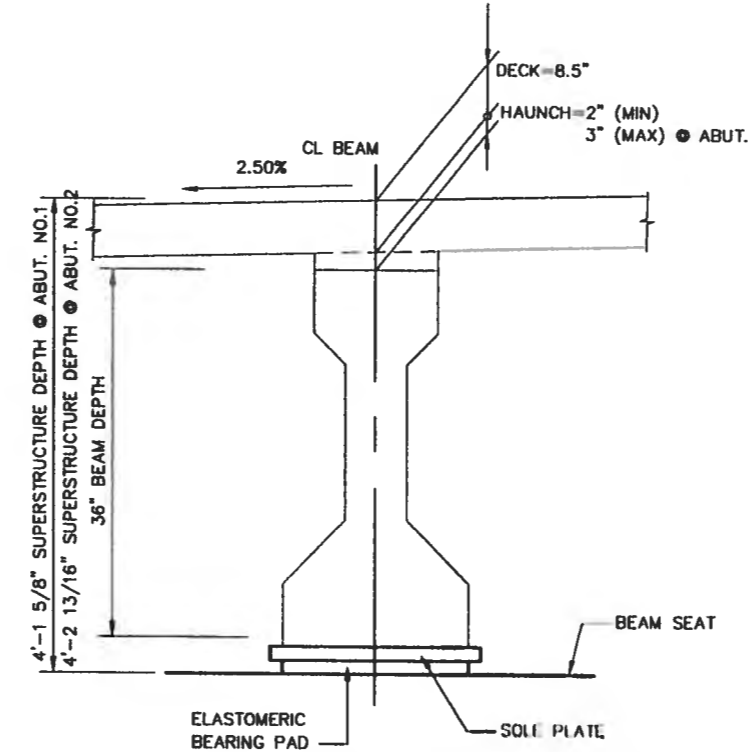
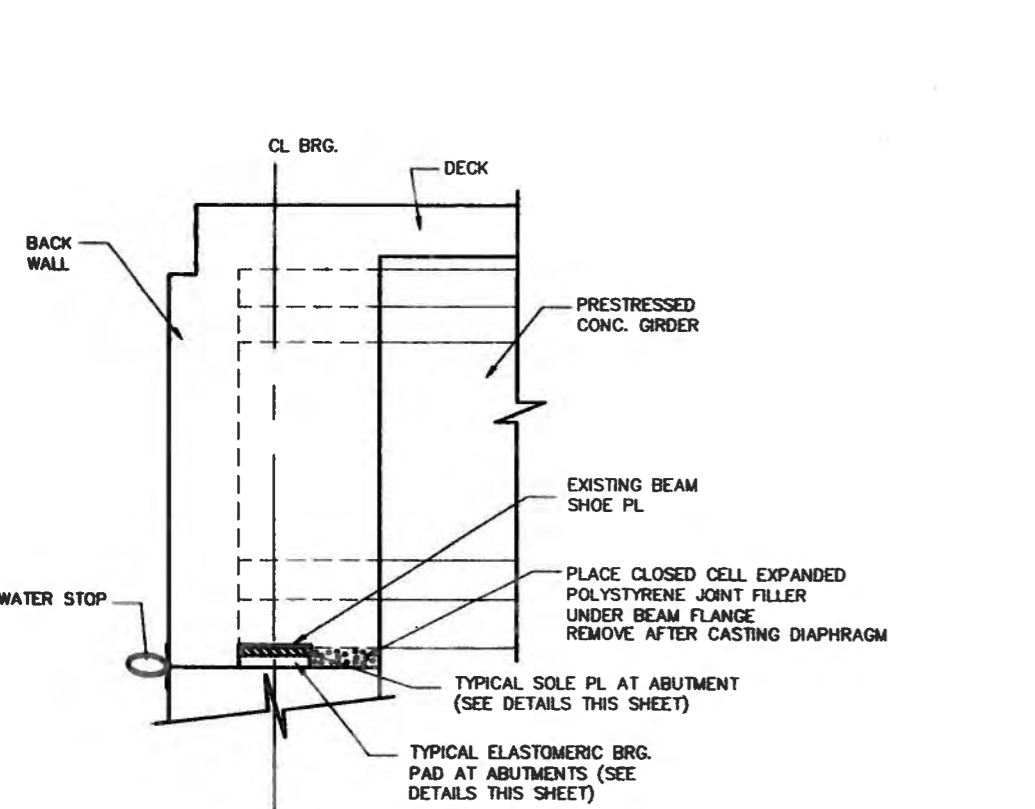
LOCATION	DESCRIPTION	BEAM LINE						
		1	2	3	4	5	6	7
ABUT. NO.2	SLAB ELEV.	5124.580	5124.790	5125.010	5125.230	5125.440	5125.660	5125.870
	SLAB TH.	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	HAUNCH	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	BEAM	36.00	36.00	36.00	36.00	36.00	36.00	36.00
	SOLE PL.	1.56	1.56	1.56	1.56	1.56	1.56	1.56
	BEARING PAD	1.75	1.75	1.75	1.75	1.75	1.75	1.75
	SEAT ELEV.	5120.346	5120.556	5120.776	5120.996	5121.206	5121.426	5121.636

**BEARING INFORMATION TABLE**

LOCATION	NO. LAMS	THICKNESS OF EXTERIOR LAM.	THICKNESS OF INTERIOR LAM.	NO. SHIMS	TOTAL THICKNESS	DES DL (K)	DES LL (K)	NO. REQ'D
ABUTMENT NO. 1	1	0"	5/8"	0	5/8"	61.7	56	7
ABUTMENT NO. 2	3	3/8"	3/4"	2	1 3/4"	61.7	56	7



**ELASTOMERIC BEARING PAD DETAIL**



BRIDGE NO. 9380  
STA. 61+28.70  
SKEW 9'00"00" R.F.

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
BEARING DETAILS

DESIGN REVIEW COMMITTEE: APPROVE DEC 1 2005  
CITY ENGINEER APPROVAL: APPROVE DEC 1 2005  
CITY ENGINEER

City Project No. COA 704902    Zone Map No. C - 11    Sheet 40 Of 116

**AS BUILT INFORMATION**

**BENCH MARKS**

ACS 3 1/4" Aluminum Cap stamped "ACS 1-011"

CONTRACTOR: Near Intersection of Highway Dr. & Calle Norte

**ENGINEER'S SEAL**

DANTON B. BEAS  
P.E.  
15890  
11/05

**FIELD NOTES**

**NO. DATE**

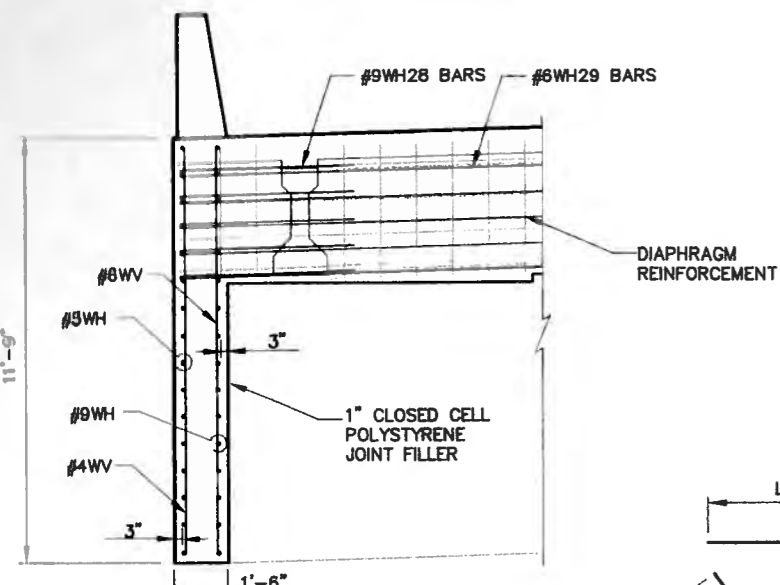
**REMARKS**

**DESIGN**

DESIGNED BY: DB    DATE: 11/05  
DRAWN BY: WYV    DATE: 11/05  
CHECKED BY: WYV    DATE: 11/05

**MICRO-FILM INFORMATION**

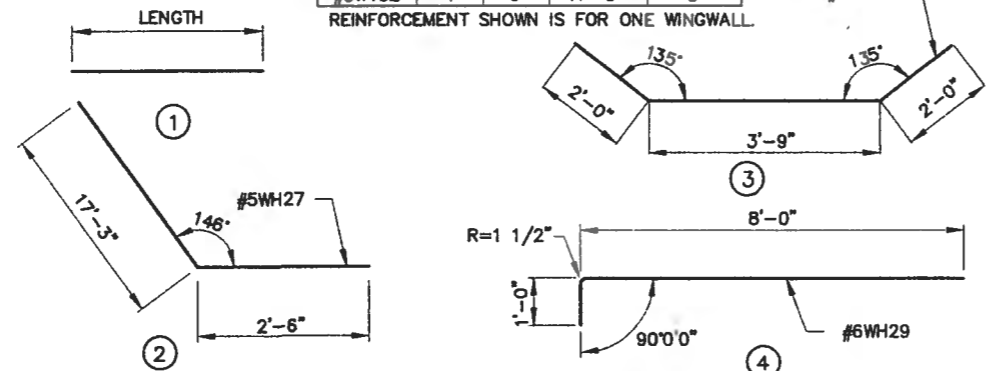
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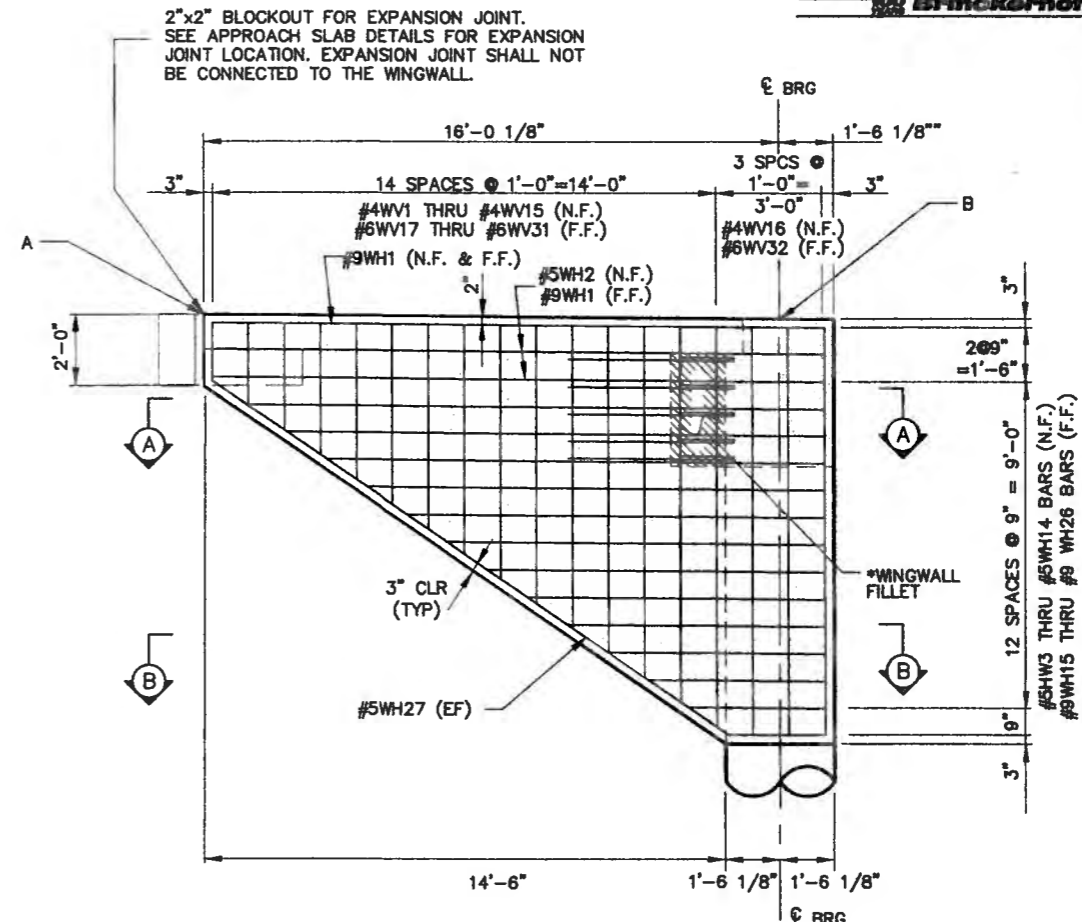
**ABUTMENT END SECTION**  
SCALE - 3/8"=1'

EPOXY COATED GRADE 60 BARS				
BAR	TYPE	SIZE	LENGTH	NO. REQ'D.
#9WH1	1	9	17'-0"	4
#5WH2	1	5	17'-0"	2
#5WH3	1	5	16'-0"	1
THRU INC.=1'-1 1/2" 12 TOTAL BARS				
#5WH14	1	5	3'-7 1/2"	1
#9WH15	1	9	16'-0"	1
THRU INC.=1'-1 1/2" 12 TOTAL BARS				
#9WH26	1	9	3'-7 1/2"	1
#5WH27	4	5	19'-9"	2
#9WH28	4	9	8'-0"	5
#6WH29	4	6	9'-0"	5
#4WV1	1	4	1'-6"	1
THRU INC.=8" 15 TOTAL BARS				
#4WV15	1	4	10'-10"	1
#4WV16	1	4	11'-3"	3
#6WV17	1	6	1'-6"	1
THRU INC.=8" 15 TOTAL BARS				
#6WV31	1	6	10'-10"	1
#6WV32	1	6	11'-3"	3

REINFORCEMENT SHOWN IS FOR ONE WINGWALL



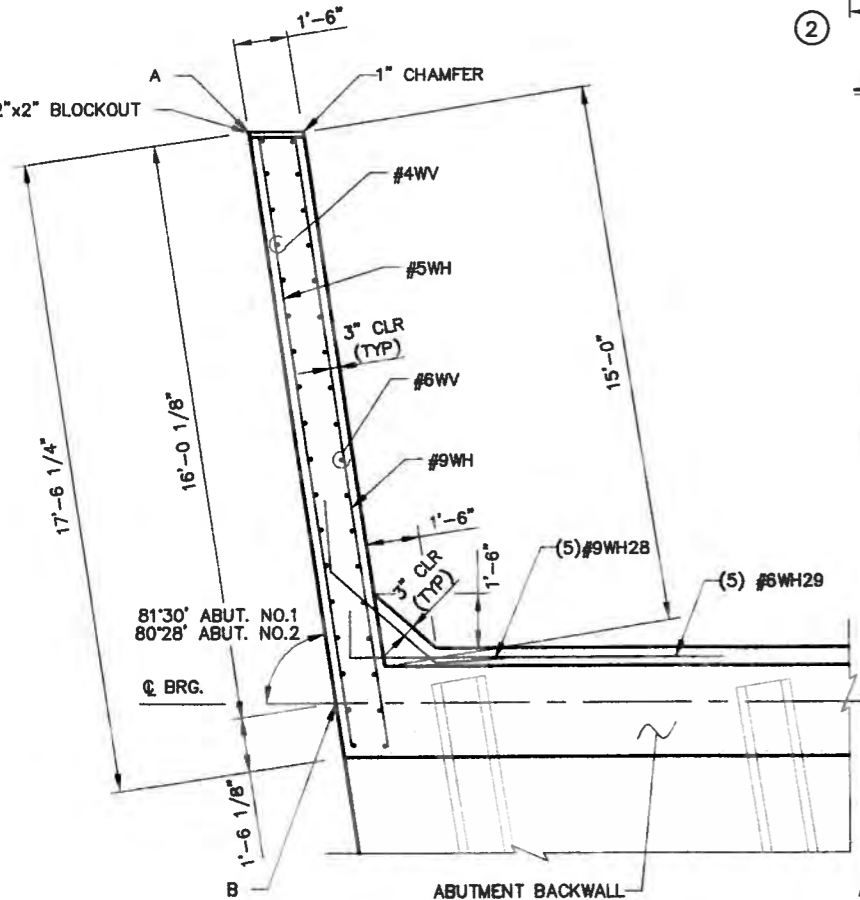
**REINFORCING BARS FOR WINGWALL**



**TYPICAL WINGWALL ELEVATION**

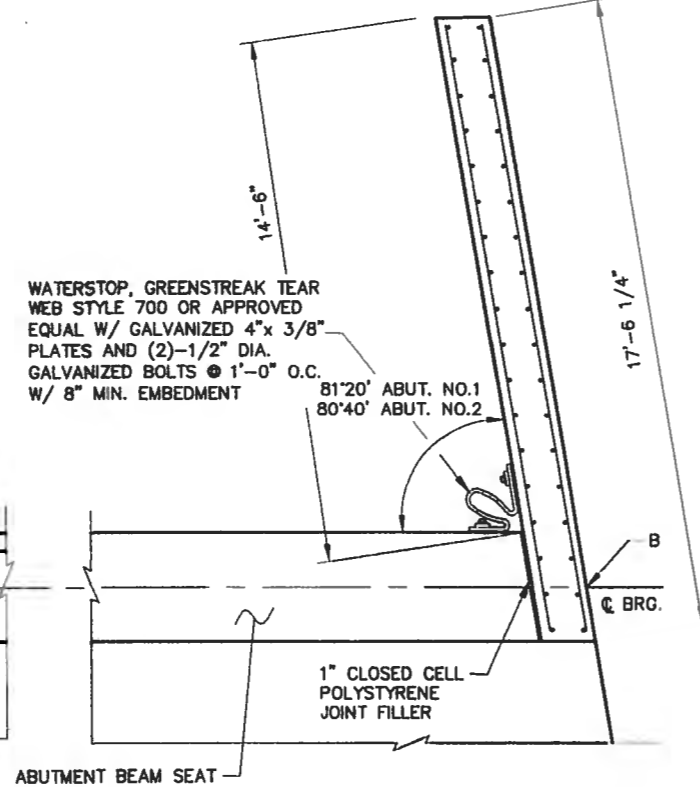
SCALE - 3/8"=1' (ABUT. NO.1-RT. WINGWALL SHOWN  
ABUT. NO.2-LT. WINGWALL SHOWN  
OTHERS OPPOSITE HAND)

NOTE:  
\* BEGIN WINGWALL FILLETS AT TOP OF  
APPROACH SLAB SHELF. END FILLETS AT  
TOP OF ABUTMENT DIAPHRAGM.



**SECTION A-A THRU BACKWALL**

SCALE - 3/8"=1' ABUT. NO.1-RT. WINGWALL SHOWN  
ABUT. NO.2-LT. WINGWALL SHOWN



**SECTION B-B THRU ABUTMENT SEAT**

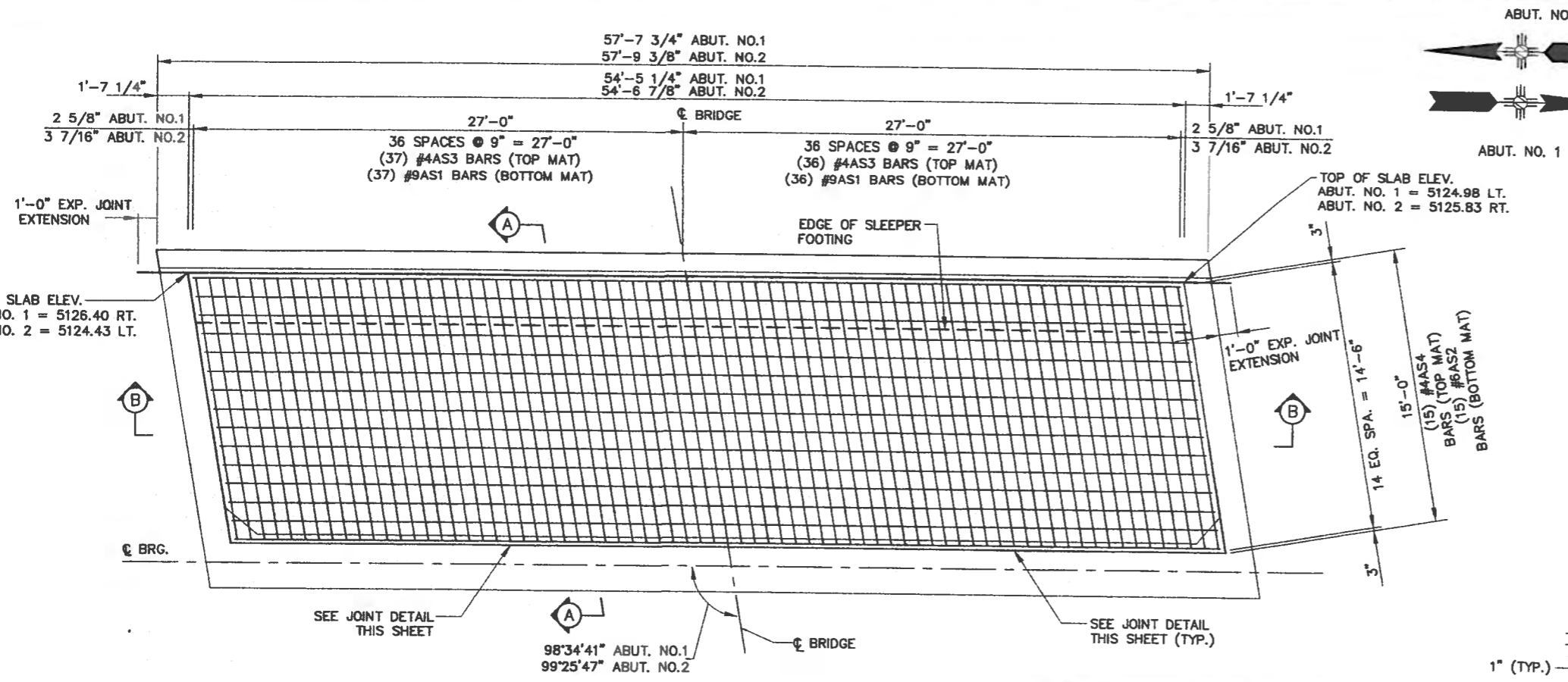
SCALE - 3/8"=1' ABUT. NO.1-LT. WINGWALL SHOWN  
ABUT. NO.2-RT. WINGWALL SHOWN

WINGWALL	LOCATION	STATION	OFFSET	ELEVATION
ABUT. NO.1	A	60+94.69	-2.50	5124.94
	B	61+10.71	-2.50	5124.81
ABUT. NO.1	A	60+86.45	54.50	5126.44
	B	61+02.19	54.50	5126.30
ABUT. NO.2	A	61+71.78	-2.50	5124.39
	B	61+55.75	-2.50	5124.49
ABUT. NO.2	A	61+62.09	54.50	5125.87
	B	61+46.37	54.50	5125.97

AS BUILT INFORMATION	
CONTRACTOR	ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"
WORK BY	Near Intersection of Ridgeway Dr. & Calle Nortena
DATE	
DISPATCH BY	Geographic Position (NAD 27), in feet
DATE	
FIELD BY	N.M. State Plane Coordinates (Central Zone)
DATE	
DESIGNED BY	X=366,041.88, Y=1,519,123.33
DATE	
CHECKED BY	Elevation=5272.34 NGVD29, in feet
DATE	
RECORDED BY	
DATE	

ENGINEER'S SEAL	
DATE	11/05
DATE	11/05
DATE	11/05

CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT TRANSPORTATION DIVISION			
PASEO DEL NORTE EXTENSION			
DESIGNED BY: DB	DATE: 11/05	CHECKED BY: MG	DATE: 11/05
DRAWN BY: VRY	DATE: 11/05	CITY ENGINEER	DATE: 11/05
City Project No. COA 704902	Zone Map No. C - 11	Sheet 41	Of 116

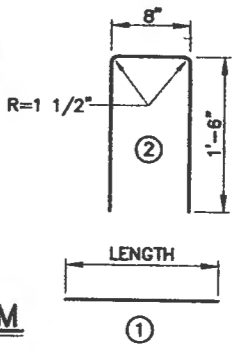


**REINFORCING STEEL FOR ABUT. NO. 1 & 2 APPROACH SLAB**

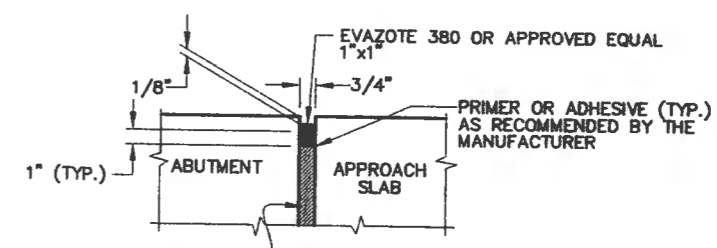
EPOXY COATED GRADE 60 BARS

BAR	TYPE	SIZE	LENGTH	NO. REQ'D
#9AS1	1	9	14'-8"	73
#6AS2	1	6	54'-1"	15
#4AS3	1	4	14'-8"	73
#4AS4	1	4	54'-1"	15
#4AS5	1	4	57'-3"	6
#4AS6	2	4	3'-8"	70
#4AS7	1	4	3'-8"	132
#4AS8	1	4	54'-1"	6

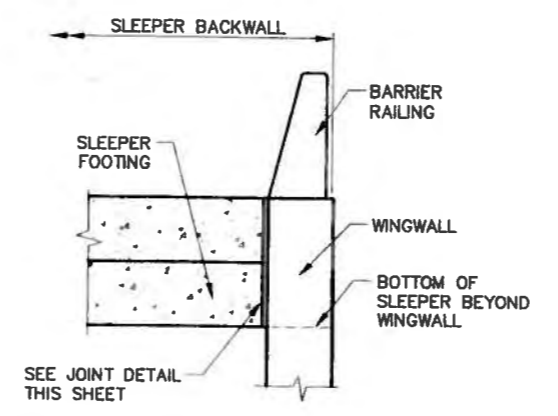
REINFORCEMENT SHOWN IS FOR ONE APPROACH SLAB



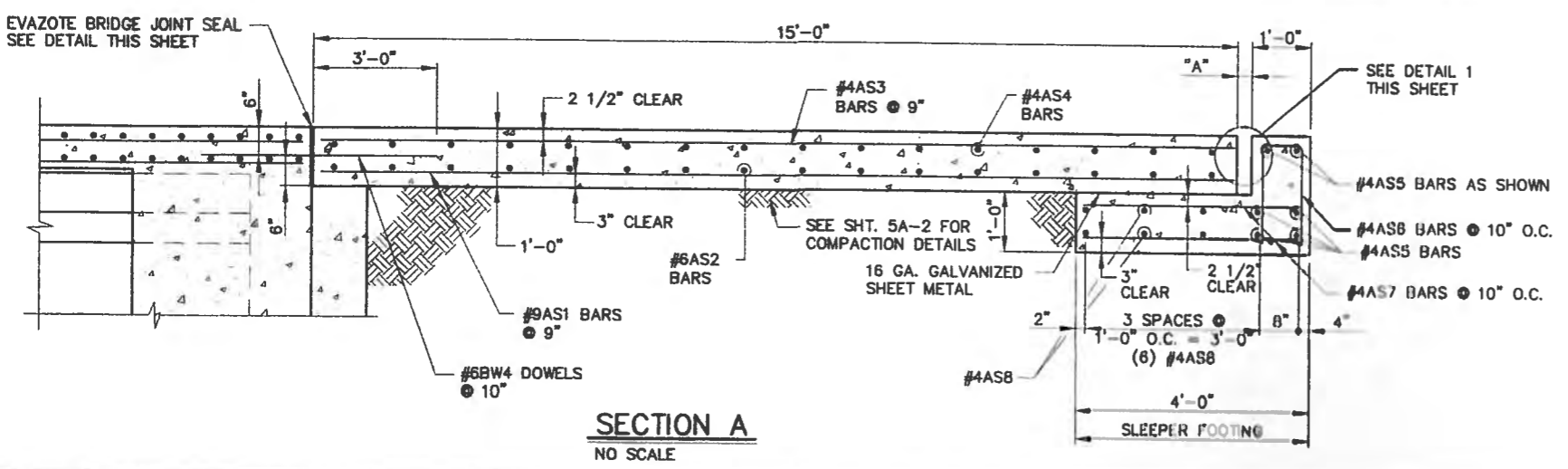
**BAR BENDING DIAGRAM**  
NO SCALE



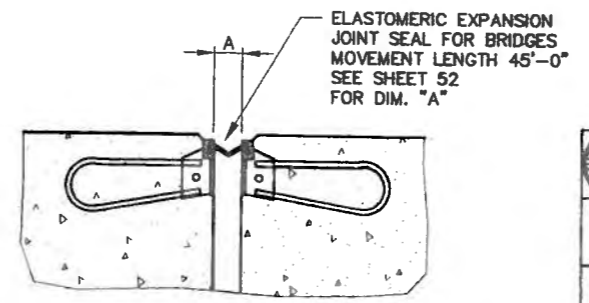
**JOINT DETAIL AT BACKWALL & WINGWALL**  
NO SCALE



**SLEEPER END DETAIL (ELEVATION)**



**SECTION A**  
NO SCALE



**DETAIL 1**  
NO SCALE

BRIDGE NO. 9380  
STA. 61+28.70  
SKEW 9°00'00" R.F.

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

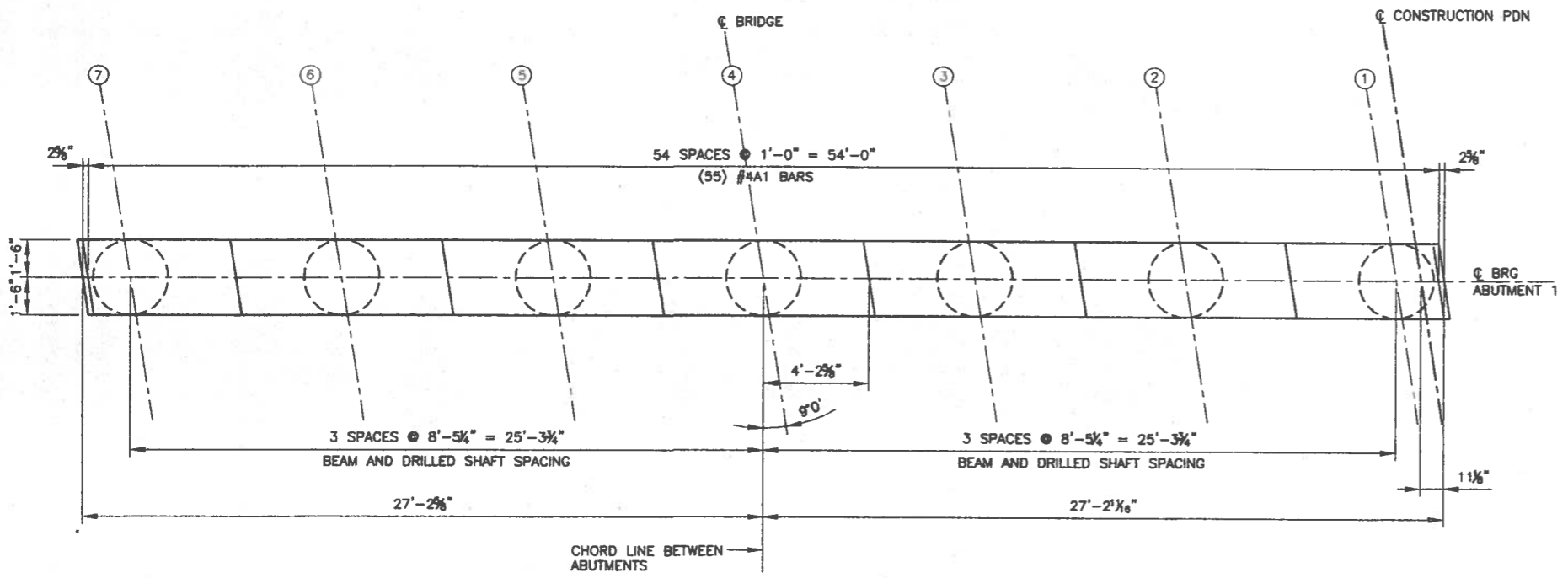
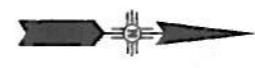
PASEO DEL NORTE EXTENSION  
APPROACH SLAB

DESIGNED BY: DB DATE 11/05  
DRAWN BY: VRV DATE 11/05  
CHECKED BY: MC DATE 11/05

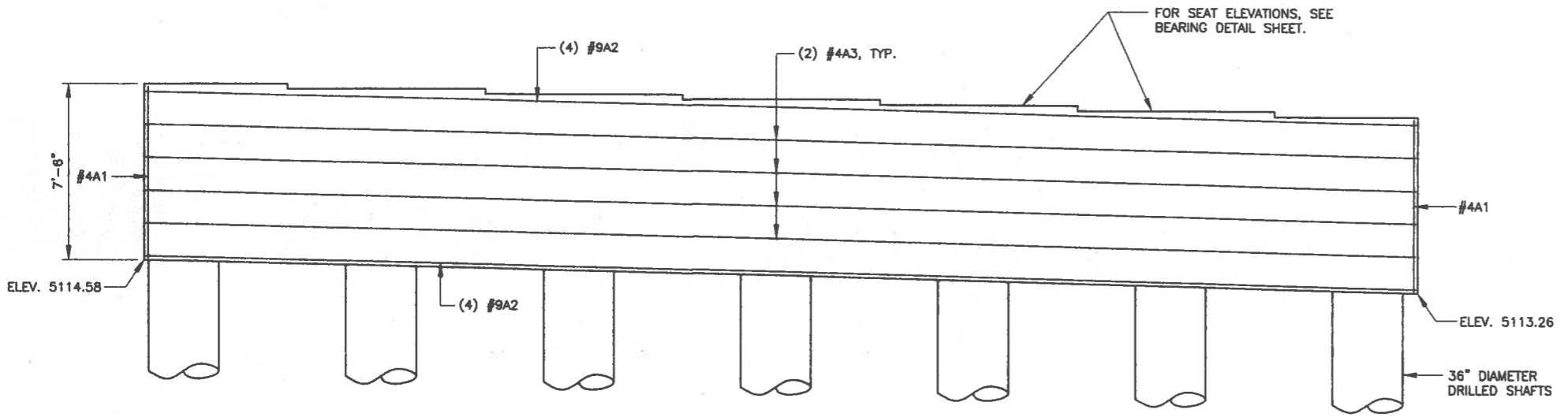
DESIGN REVIEW COMMITTEE APPROVE  
CITY ENGINEER APPROVAL APPROVE  
DEC 1 2 2005  
CITY ENGINEER

City Project No. COA 704902  
Zone Map No. C - 11  
Sheet 42 Of 116

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	NO.	DATE	BY	NO.	BY	NO.	DATE
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"							
Near Intersection of Ridgeway Dr. & Cade Nortena							
N.M. State Plane Coordinates (Central Zone)							
X=968,041.88, Y=1,519,125.33							
Elevation=5279.34 NOV29, in feet							

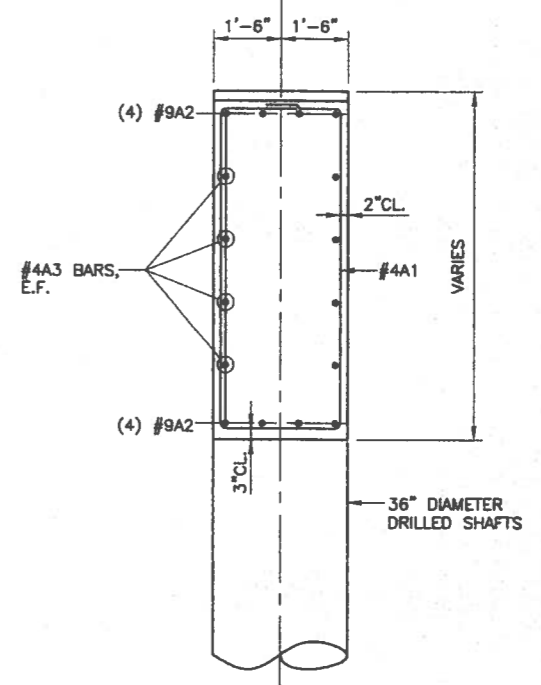
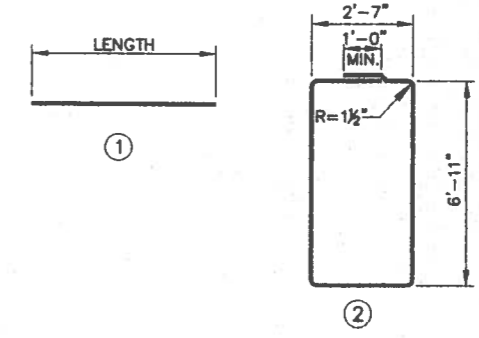


PLAN



ELEVATION

ABUTMENT 1 REINFORCING BARS				
REGULAR GRADE 60 BARS				
BAR	TYPE	SIZE	LENGTH	NO. REQ'D
#4A1	2	4	20'-0"	55
#9A2	1	9	54'-2"	8
#4A3	1	4	54'-2"	8



END VIEW

AS BUILT INFORMATION	
CONTRACTOR	DATE
ACS 3 1/2" Aluminum Cap atopped "ACS 1-C11"	
Near Intersection of Ridgeway Dr. & Calle Nertena	
Geographic Position (NAD 27), in feet	
N.M. State Plane Coordinates (Central Zone)	
X=398,041.88, Y=1,518,123.33	
Elevation=5272.34-NGVD29, in feet	

BENCH MARKS	
NO.	DATE

SURVEY INFORMATION	
NO.	DATE

ENGINEER'S SEAL	
NO.	DATE



BRIDGE NO. 9380  
STA. 61+28.70  
SKEW 9'00"00" R.F.

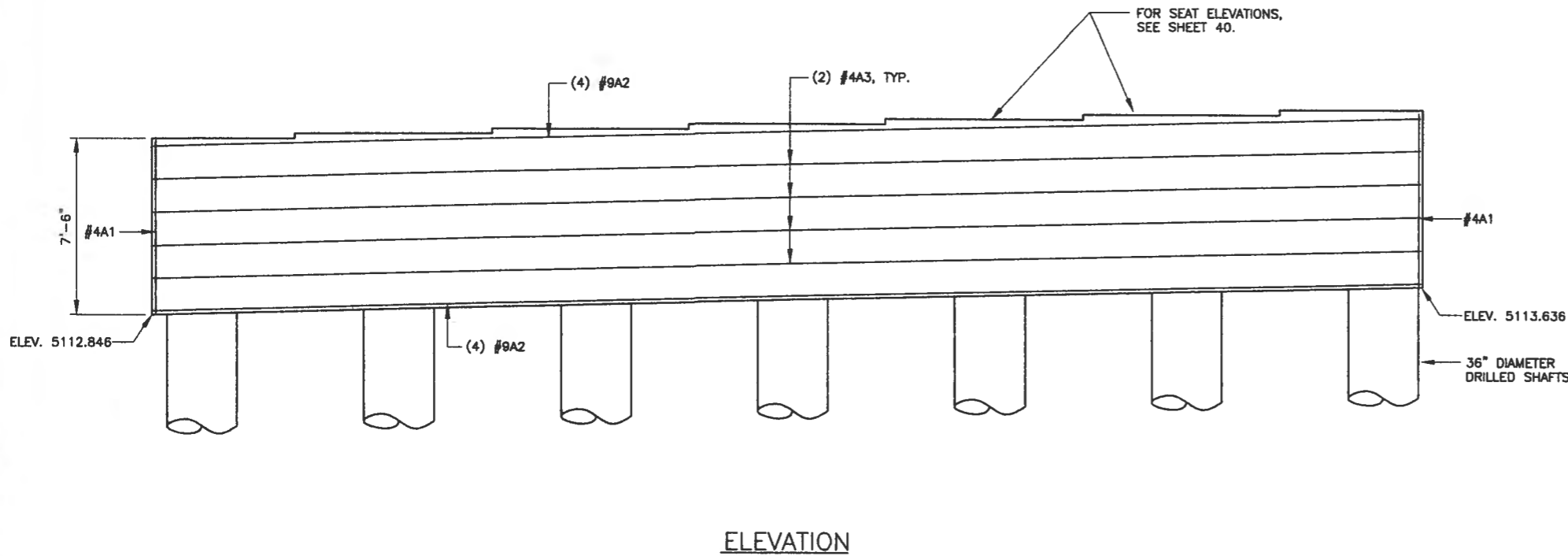
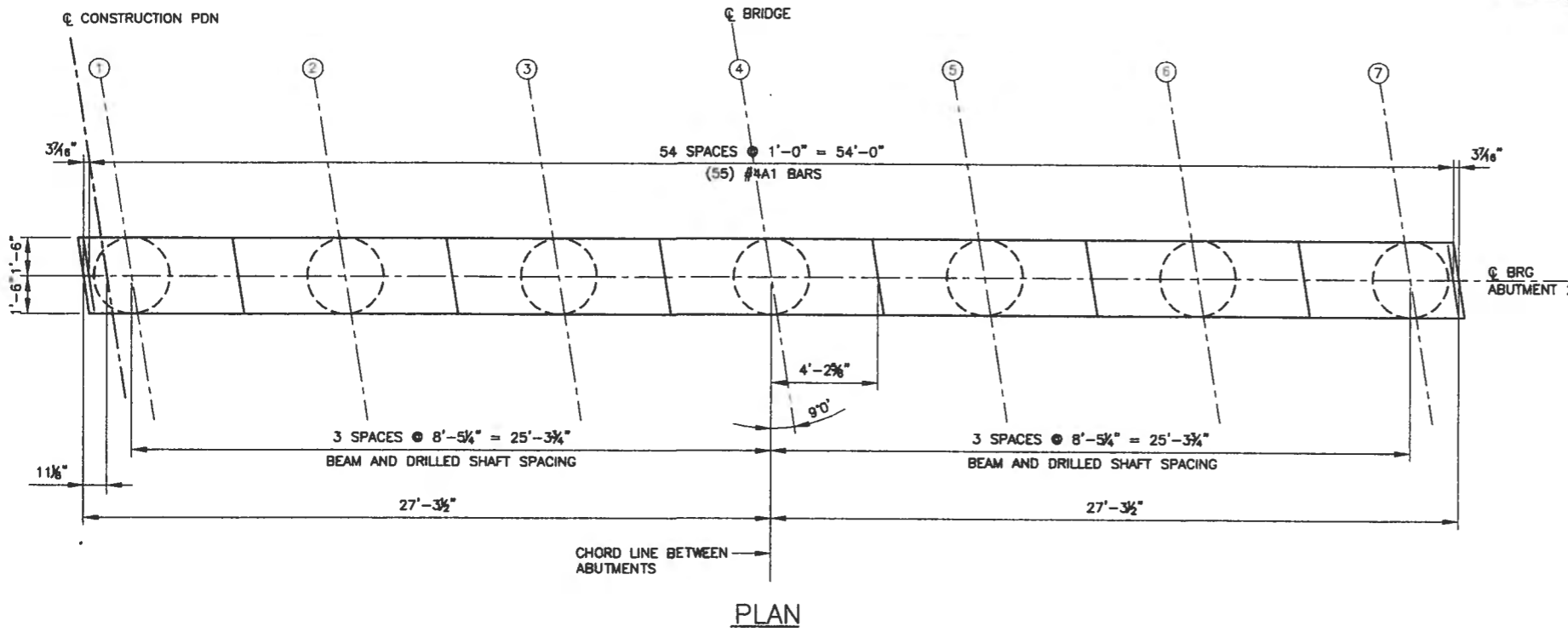
CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
ABUTMENT NO.1 DETAILS

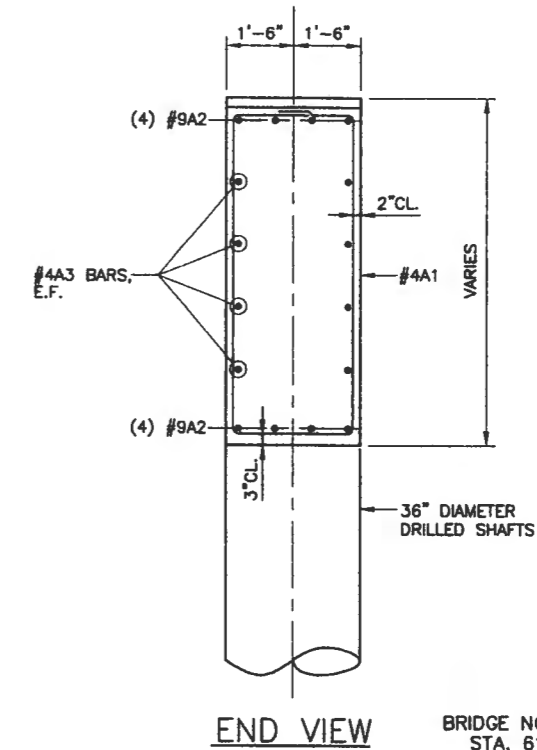
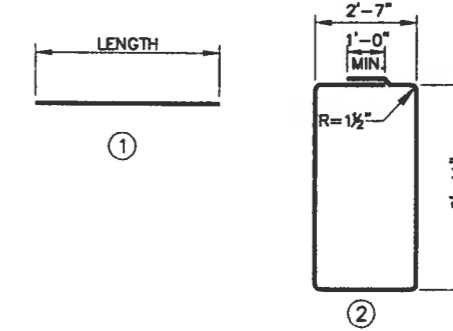
APPROVE  
DEC 13 2005  
DESIGN  
REVIEW COMMITTEE

APPROVE  
DEC 13 2005  
CITY ENGINEER

City Project No. COA 704902  
Zone Map No. C - 11  
Sheet 45 Of 116  
43



ABUTMENT 2 REINFORCING BARS				
REGULAR GRADE 60 BARS				
BAR	TYPE	SIZE	LENGTH	NO. REQ'D.
#4A1	2	4	20'-0"	55
#9A2	1	9	54'-2"	8
#4A3	1	4	54'-2"	8



BRIDGE NO. 9380  
STA. 61+28.70  
SKEW 9°00'00" R.F.

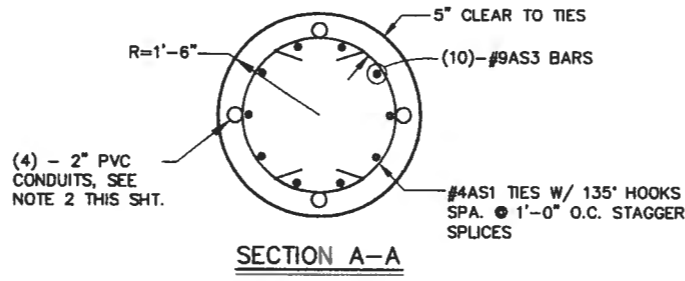
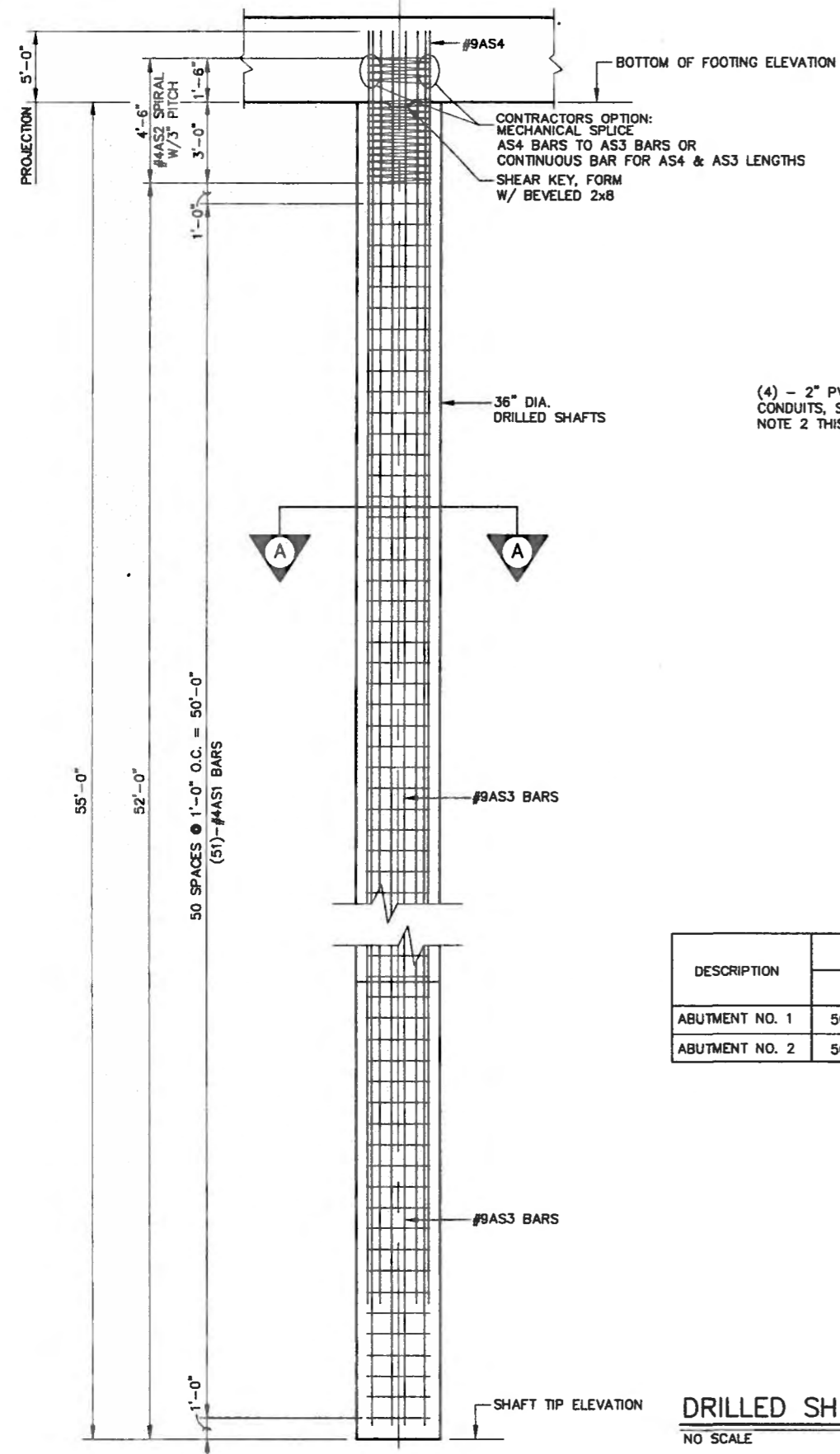
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION	
CONTRACTOR	DATE	NO.	BY	NO.	DATE
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"					
Near Intersection of Ridgeway Dr. & Collis Noriega					
Geographic Position (NAD 27), in feet					
N.M. State Plane Coordinates (Central Zone)					
X=368,041.88, Y=1,519,128.33					
Elevation=5272.34 NGVD28, in feet					
MICRO-FILM INFORMATION		REMARKS		DESIGN	
RECORDED BY	DATE	NO.	DATE	DATE	DATE



CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION  
PASEO DEL NORTE EXTENSION  
ABUTMENT NO. 2 DETAILS

DESIGN REVIEW COMMITTEE <b>APPROVED</b> DEC 1 9 2005	CITY ENGINEER APPROVAL <b>APPROVE</b> DEC 1 9 2005 CITY ENGINEER	NO. / DAY / YR.	NO. / DAY / YR.
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City Project No. COA 704902      Zone Map No. C - 11      Sheet 44 Of 116



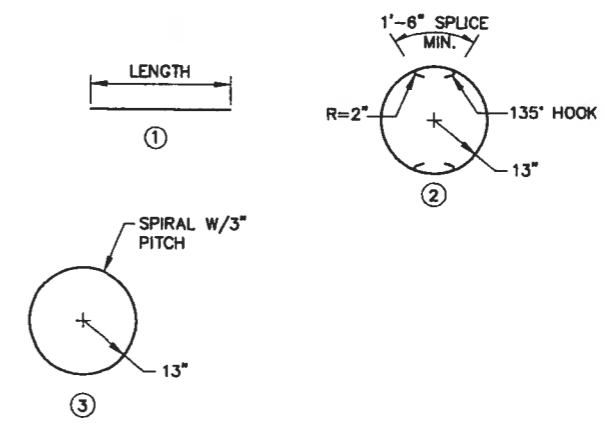
**SHAFT TIP ELEVATIONS**

DESCRIPTION	SHAFTS						
	1	2	3	4	5	6	7
ABUTMENT NO. 1	5065.8	5066.0	5066.2	5066.5	5066.7	5066.9	5067.1
ABUTMENT NO. 2	5065.3	5065.4	5065.6	5065.7	5065.8	5065.9	5066.1

**DRILLED SHAFT AT ABUTMENTS NO. 1 & 2**  
NO SCALE

**FOUNDATION NOTES:**

- 2" I.D. PVC SCHEDULE 40 ELECTRICAL CONDUIT SHALL BE PLACED AS SHOWN IN THE SHAFT SECTIONS FROM BOTTOM OF CAGE TO 1'-0" ABOVE TOP OF DRILLED SHAFT CONSTRUCTION JOINT WITH GLUED CAP BOTTOM AND THREADED CAP TOP END. CONDUIT SHALL BE SECURELY FASTENED TO ALTERNATE TIES. THE CONTRACTOR SHALL INSURE THAT THE CONDUIT IS TIED IN A PLUMB AND STRAIGHT POSITION TO THE REINFORCING CAGE SO THAT THE ULTRASONIC PROBE MAY BE LOWERED FREELY TO THE BOTTOM OF THE SHAFTS. ALL SHAFTS SHALL HAVE THE CONDUIT INSTALLED AND SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM FOR DRILLED SHAFTS. ALL PVC CONDUITS SHALL BE FILLED WITH WATER IMMEDIATELY AFTER CONCRETE PLACEMENT. ADDITIONAL INTEGRITY TESTING REQUIRED DUE TO CONTRACTOR NOT FILLING PVC CONDUITS AS SPECIFIED RESULTING IN INCONCLUSIVE READINGS, OR DUE TO BROKEN OR BLOCKED PVC TUBES, WILL BE AT THE CONTRACTOR'S COST.
- PILE INTEGRITY TESTING OF THE DRILLED SHAFTS WILL BE PERFORMED AFTER 24 HOURS OF THE PLACEMENT OF THE CONCRETE. THE CROSSHOLE SONIC TEST WILL BE CONDUCTED THROUGH ALL OF THE 2" PVC CONDUITS. SHOULD THE PILE INTEGRITY TESTING INDICATE A LOSS OF STRUCTURAL INTEGRITY OF THE DRILLED SHAFT DUE TO SLOUGHING OF THE SOIL INTO THE SPECIFIED DIAMETER OF THE SHAFT OR LACK OF CONSOLIDATION OF THE CONCRETE, THE SHAFT SHALL BE CONSIDERED DEFECTIVE. THE CONTRACTOR SHALL PROPOSE REMEDIAL MEASURES TO CORRECT SUCH DEFECTIVE SHAFTS, INCLUDING IF NECESSARY, CONSTRUCTION OF ADDITIONAL SHAFTS ADJACENT TO THE DEFECTIVE SHAFT WITH A TRANSFER BEAM CAST OVER THE SHAFTS BELOW GRADE. ALL ADDITIONAL SHAFTS, STRUCTURAL CONCRETE, AND LABOR SHALL BE AT NO ADDITIONAL COST AND NO EXTENSION OF THE CONTRACT TIME WILL BE ALLOWED.



**BAR BENDING DIAGRAM**

DRILLED SHAFT @ ABUTMENT REINFORCING STEEL (QUANTITIES ARE FOR ONE SHAFT)

GRADE 60 REBAR				
BAR	TYPE	SIZE	LENGTH	NO. REQ'D
#4AS1	2	4	9'-4"	51
#4AS2	3	4	122'-0"	1
#9AS3	1	9	54'-9"	10
#9AS4	1	9	5'-0"	10

BRIDGE NO. 9380  
STA. 61+28.70  
SKEW 9'00"00" R.F.

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
DRILLED SHAFT DETAILS

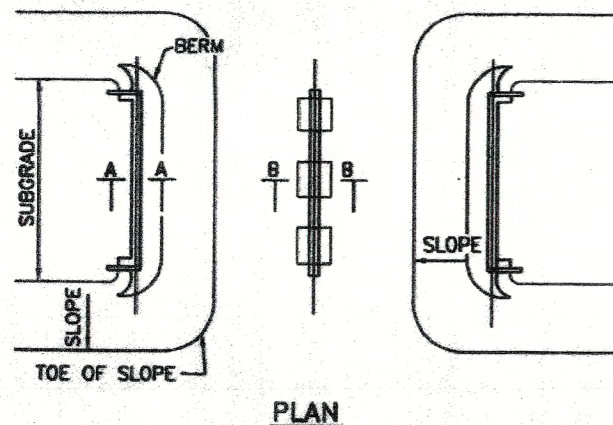
DESIGN REVIEW COMMITTEE <b>APPROVE</b> DEC 13 2005	CITY ENGINEER APPROVAL <b>APPROVE</b> DEC 13 2005	NO. / DAY / YR. ____ / ____ / ____	NO. / DAY / YR. ____ / ____ / ____
DESIGN REVIEW COMMITTEE		CITY ENGINEER	

City Project No. COA 704902      Zone Map No. C - 11      Sheet 48 of 45      116

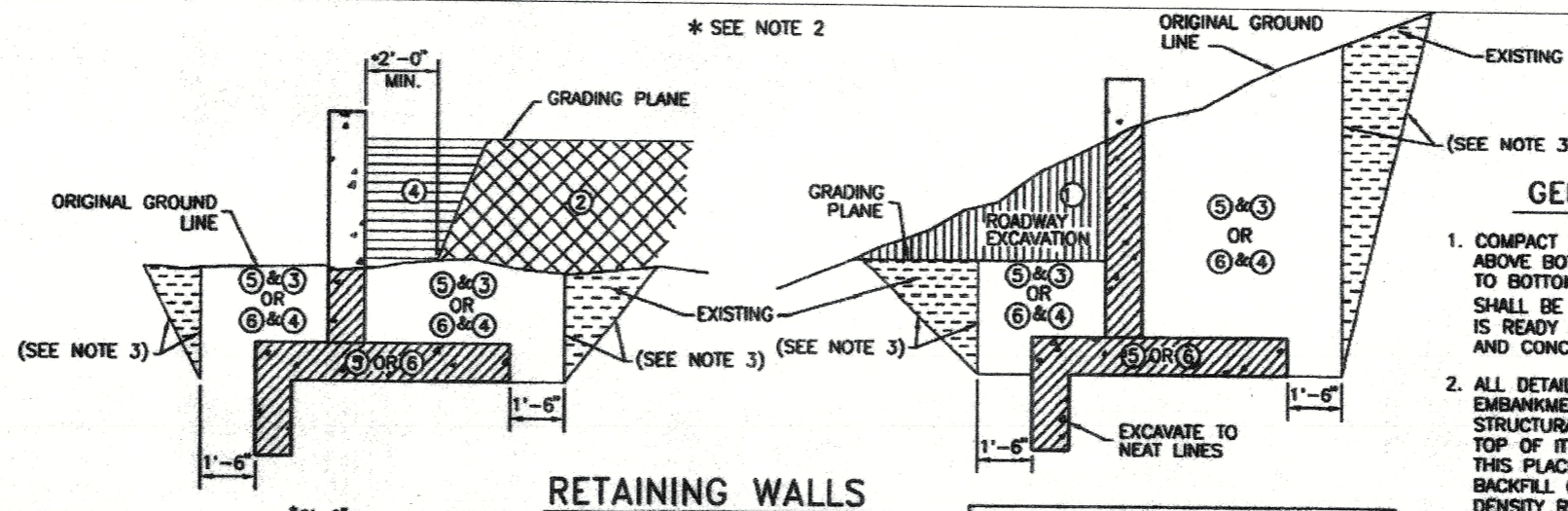
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	CONTRACTOR	DATE	NO.	BY		REMARKS DESIGN DATE 11/05 DRAWN BY: WRY CHECKED BY: MG DATE 11/05
INSPECTOR	DATE	INSPECTOR	DATE	NO.	BY		
ACCEPTANCE BY	DATE	Geographic Position (NAD 27), in feet		NO.	BY		
DATE		N.M. State Plane Coordinates (Central Zone)		NO.	BY		
DATE		X=366,041.88, Y=1,519,125.33		NO.	BY		
DATE		Elevation=5272.34 NGVD29, in feet		NO.	BY		
DATE		MICRO-FILM INFORMATION		NO.	BY		
DATE		RECORDED BY		NO.	BY		
DATE		NO.		NO.	BY		



\* SEE NOTE 2



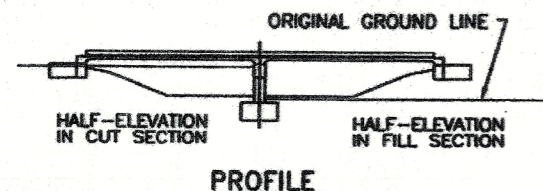
PLAN



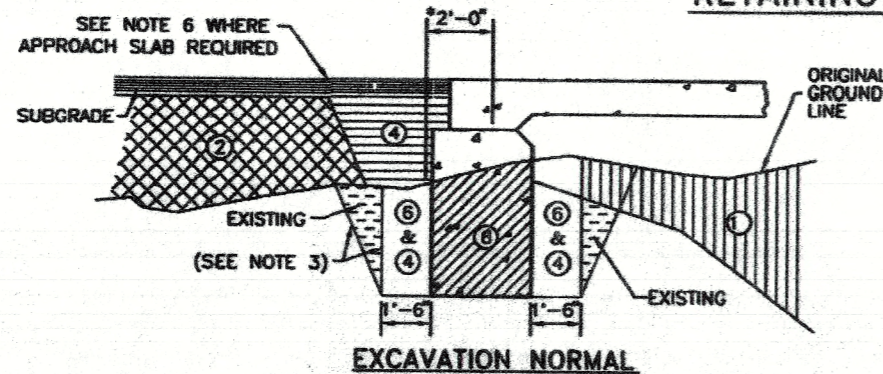
RETAINING WALLS

GENERAL NOTES

1. COMPACT ROADWAY EMBANKMENT 10'-0" (MIN) ABOVE BOTTOM OF ABUTMENT. EXCAVATION TO BOTTOM OF ABUTMENT ELEVATION SHALL BE DELAYED UNTIL THE CONTRACTOR IS READY TO PLACE THE ABUTMENT FORMS AND CONCRETE.
2. ALL DETAILS ARE SHOWN WITH THE ROADWAY EMBANKMENT PLACED FIRST AND THE STRUCTURAL BACKFILL MATERIAL PLACED ON TOP OF IT. THE CONTRACTOR SHALL USE THIS PLACEMENT ORDER SO THE STRUCTURAL BACKFILL CAN BE COMPACTED TO THE MAXIMUM DENSITY REQUIRED. NO EMBANKMENT MATERIAL SHALL BE WITHIN 2'-0" OF THE CONCRETE STRUCTURE.
3. WHERE THE SITE OF WORK OR CHARACTER OF MATERIAL TO BE EXCAVATED REQUIRES A SLOPE LESS THAN VERTICAL AND THE CONTRACTOR OBTAINS APPROVAL FROM THE ENGINEER TO MAKE A CUT LESS THAN VERTICAL, INSTEAD OF USING COFFERDAMS, THE SLOPE OF THE CUT SHALL NOT BE STEEPER THAN THE STABILITY OF THE MATERIAL PERMITS AS DETERMINED BY THE PROJECT MANAGER. THIS ADDITIONAL EXCAVATION AND BACKFILL, BEYOND A VERTICAL CUT, SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE WORK AND NO ADDITIONAL PAYMENT WILL BE MADE THEREFORE.
4. GRADING PLANE IS THE SURFACE TO WHICH PRECISE GRADING IS FINISHED SUCH AS SUBGRADE UNDER THE TEMPLATE SECTION OF A ROAD, ROADWAY SIDE SLOPES, DITCHES ADJACENT TO PIERS, DITCH SLOPES AT WINGWALLS, SUBGRADE UNDER ABUTMENTS AND RETAINING WALLS.
5. EARTHWORK FOR CBC'S TO BE IN ACCORDANCE WITH SECTION 206 OR SECTION 210 OF THE NEW MEXICO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
6. STRUCTURE BACKFILL AT APPROACH SLABS SHALL CONFORM TO AASHTO A-1-g.



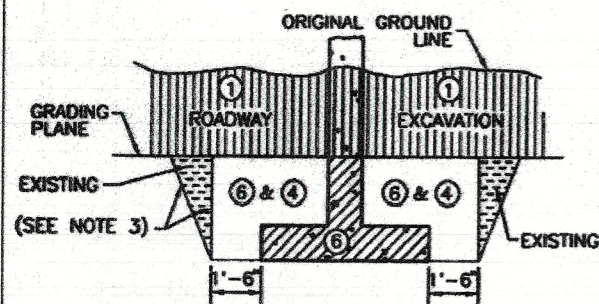
PROFILE



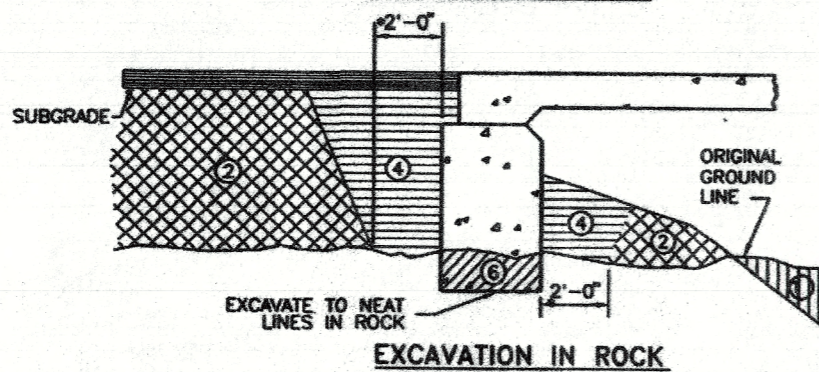
EXCAVATION NORMAL

KEY No.	SECTION DESCRIPTION
1	ROADWAY EXCAVATION
2	ROADWAY EMBANKMENT
3	STRUCTURE BACKFILL
4	210
5	STRUCTURE EXCAVATION
6	210

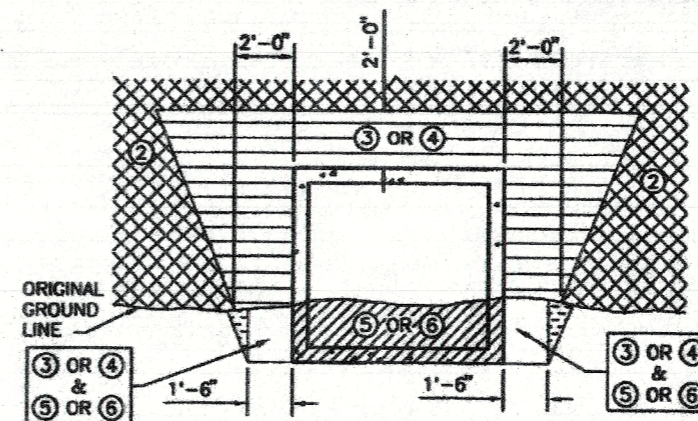
NOTE: SECTION 206 = MINOR STRUCTURES  
SECTION 210 = MAJOR STRUCTURES



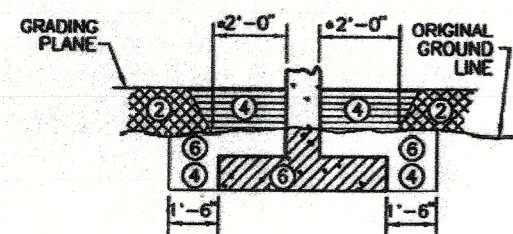
CUT SECTION



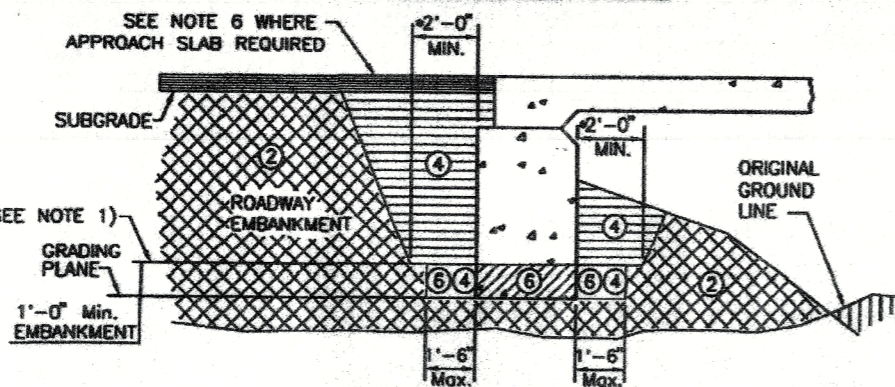
EXCAVATION IN ROCK



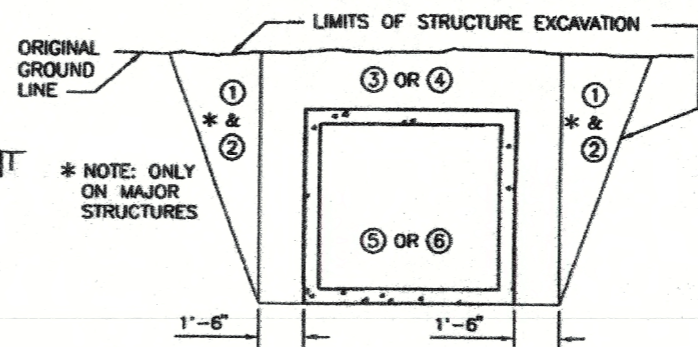
METHOD OF PLACING BACKFILL AROUND CBC'S



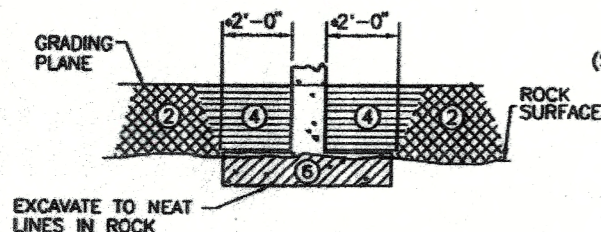
FILL SECTION



EXCAVATION IN FILL SECTION



METHOD OF EXCAVATION AROUND CBC'S



EXCAVATION IN ROCK

SECTION B-B DETAILS

SECTION A-A DETAILS

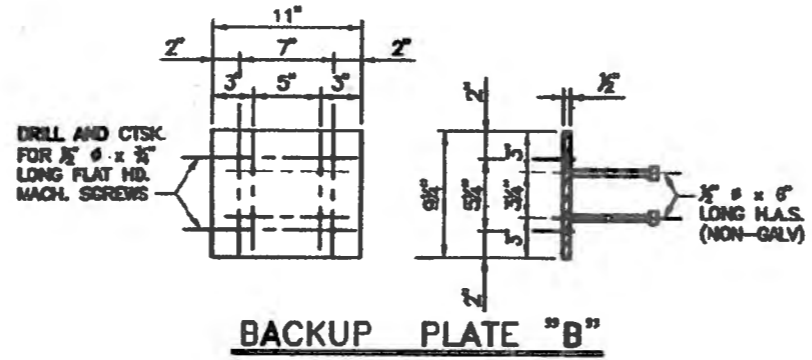
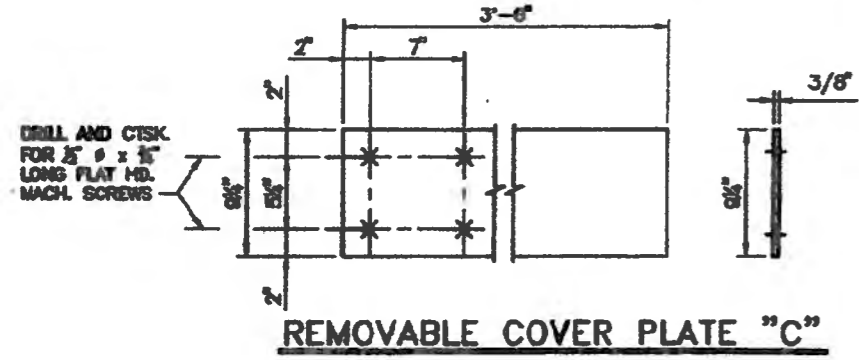
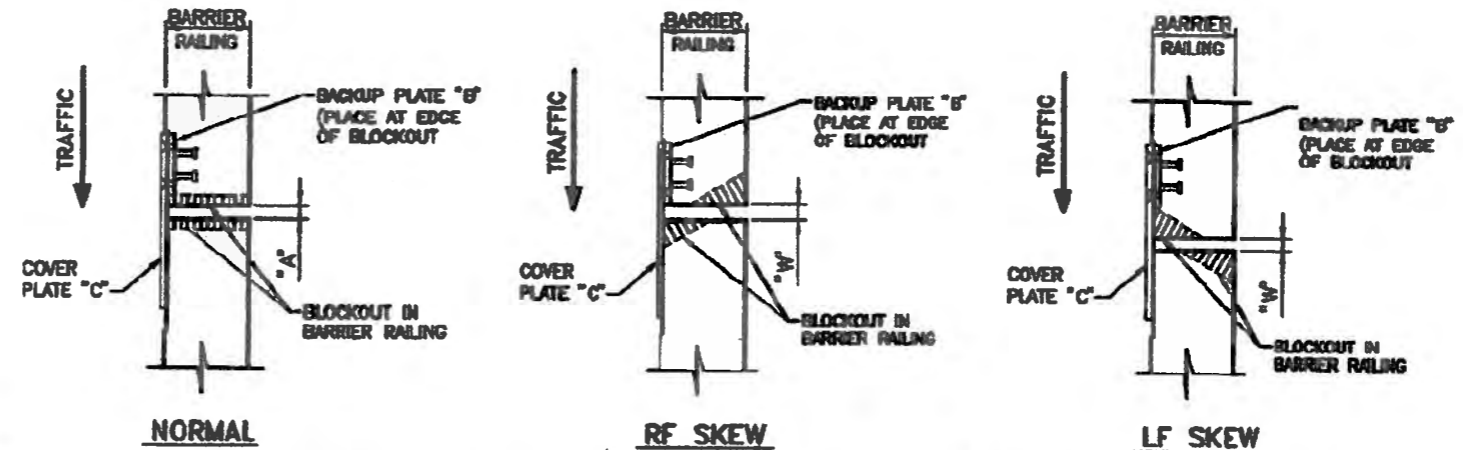
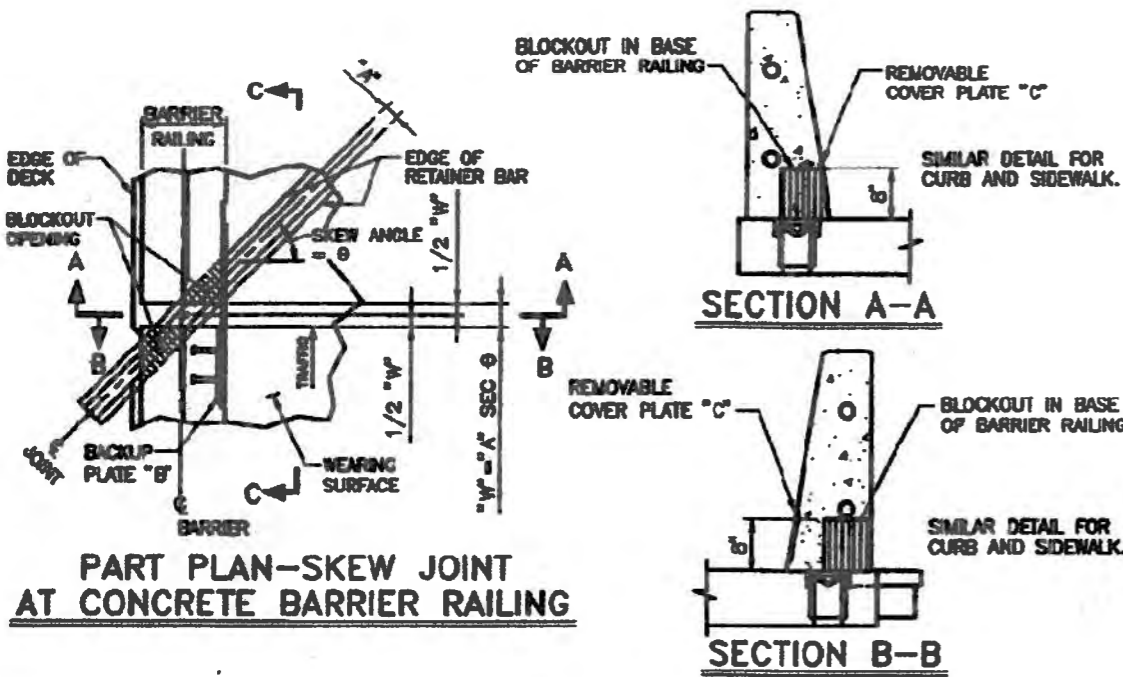
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	DATE	BY	NO.	DATE	NO.	DATE
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"							
Work Stationed by: Cap stamped "ACS 1-C11"							
Geographic Position (NAD 27), in feet							
N.M. State Plane Coordinates (Central Zone)							
X=86,041.85, Y=1,519,125.33							
Elevation=5272.34 NGVD29, in feet							
RECORDED BY							
NO.							
DESIGNED BY: DB	DATE: 11/05	DESIGNED BY: VRY	DATE: 11/05	CHECKED BY: MG	DATE: 11/05		
<p>BRIDGE NO. 9380 STA. 61+28.70 SKEW 9'00"00" R.F.</p> <p>CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT TRANSPORTATION DIVISION</p> <p>PASEO DEL NORTE EXTENSION EXCAVATION &amp; BACKFILL FOR BRIDGES</p>							
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.				
APPROVED DEC 1 8 2005	APPROVED DEC 1 8 2005						
DESIGN REVIEW COMMITTEE	CITY ENGINEER						
City Project No. COA 704902	Zone Map No. C-11	Sheet 46	Of 116				



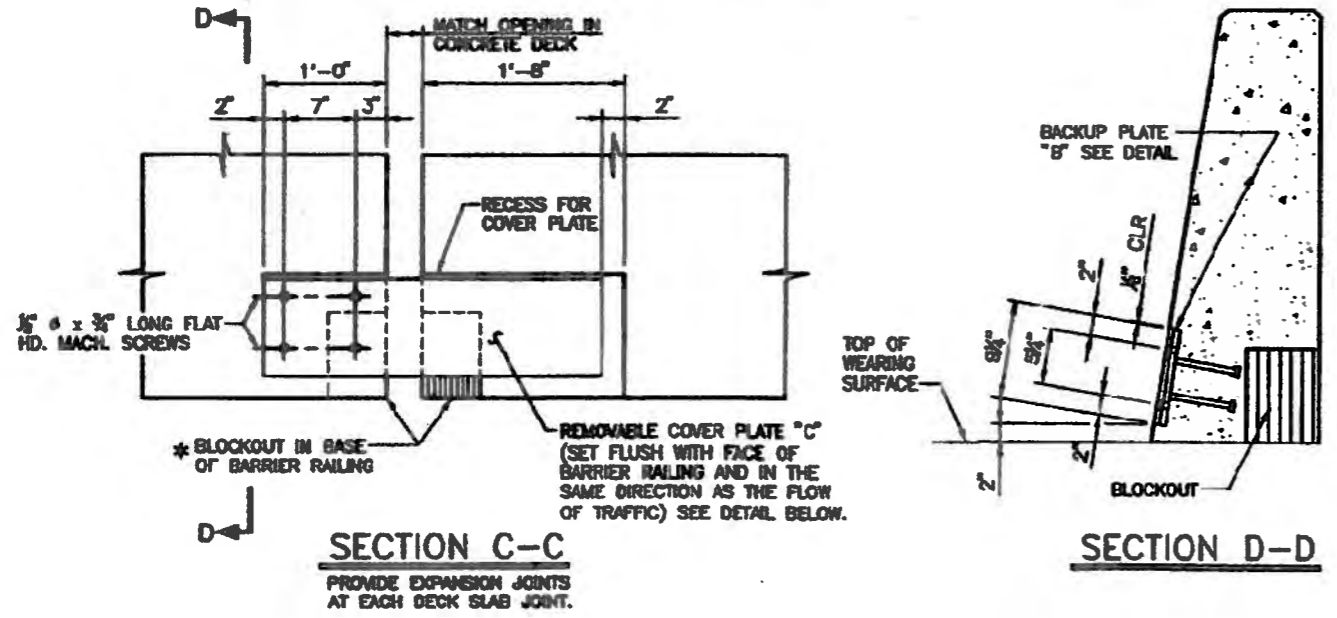








**NOTES**  
1. ALL METAL PLATES AND SCREWS SHALL BE GALVANIZED UNLESS NOTED OTHERWISE.



**\*\* ESTIMATED QUANTITIES**  
(FOR ONE ASSEMBLY)

ITEM	UNIT	TOTAL
STRUCTURAL STEEL	LB	57

\*\*FOR CONTRACTOR'S INFORMATION ONLY

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
42" BRIDGE BARRIER DETAILS AT JOINT SEALS

DESIGN REVIEW COMMITTEE <b>APPROVED</b> DEC 13 2005	CITY ENGINEER APPROVAL <b>APPROVED</b> DEC 12 2005	NO./DAY/HR.	NO./DAY/HR.
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 50 Of 116

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	CONTRACTOR	DATE	FIELD NOTES	NO.	BY	DATE
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"		Near intersection of Ridgeway Dr. & Calle Nortena					
		Geographic Position (NAD 27), in feet					
		N.M. State Plane Coordinates (Central Zone)					
		X=366,041.86, Y=1,519,125.33					
		Elevation=8272.34 NGVD29, in feet					
MICRO-FILM INFORMATION		REMARKS		DESIGN		NO. DATE	
RECORDED BY	DATE			DESIGNED BY: DB	DATE: 11/05		
				DRAWN BY: VRY	DATE: 11/05		
				CHECKED BY: MG	DATE: 11/05		

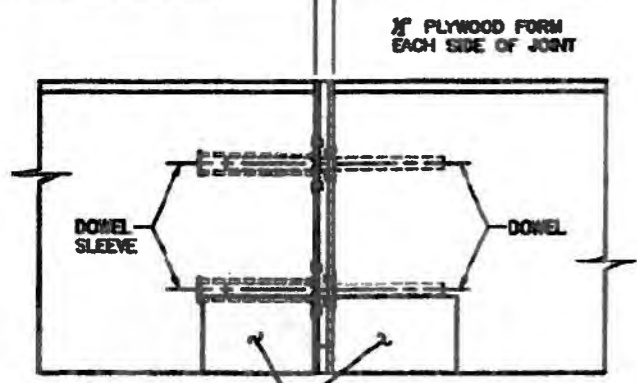




**GENERAL NOTES**

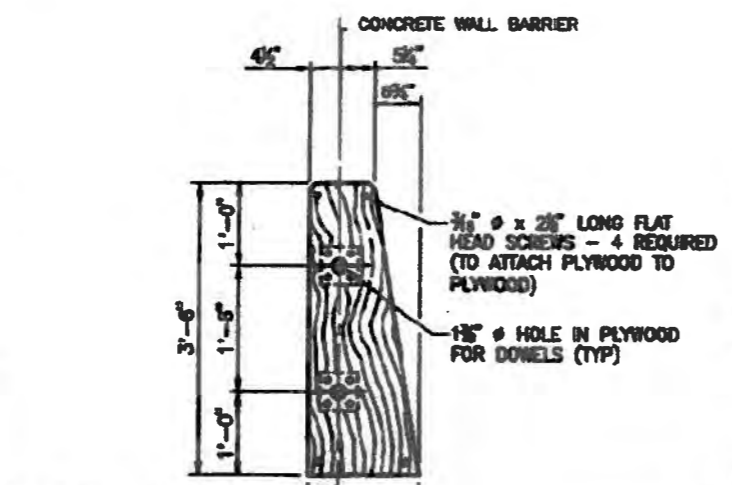
1. WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION.
2. STRUCTURAL STEEL SHALL CONFORM TO AASHTO M 183 UNLESS OTHERWISE NOTED ON THE DETAILS, AND SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 548.23 OF THE STANDARD SPECIFICATIONS.
3. THE SLEEVE ASSEMBLY SHALL BE SET PARALLEL TO THE BRIDGE DECK GRADE AND THE OUTSIDE FACE OF THE CONCRETE BARRIER RAILING.
4. AFTER CONCRETE HAS TAKEN INITIAL SET, REMOVE STYROFOAM FILLER, 1/4" Ø HEX. HD. CAP SCREWS, AND THE PLYWOOD FORMS FROM THE JOINT. (CUT THE 1/2" Ø SCREWS TO FACILITATE THE PLYWOOD FORM REMOVAL).
5. PLYWOOD FORMS AND STYROFOAM FILLER SHALL BE CUT TO THE CROSS SECTION OF THE CONCRETE BARRIER RAILING. PLYWOOD FORMS SHALL BE COATED WITH AN APPROVED BOND-BREAKER.
6. FOR MOVEMENT LENGTHS IN EXCESS OF 300 FEET INCREASE JOINT OPENING (s) AS REQUIRED.
7. THE COST OF ALL MATERIALS AND INSTALLATION FOR THE JOINTS SHALL BE CONSIDERED INCIDENTAL TO THE COST TO THE BRIDGE BARRIER RAILING OR CONCRETE WALL BARRIER AND, THEREFORE, NO DIRECT PAYMENT WILL BE MADE.

SEE "SYSTEM 1. BRIDGE JOINT STRIP SEALS, GENERAL DATA" FOR CONCRETE BARRIER RAILING  
 "W" = 2" MIN. JOINT FOR CONCRETE WALL BARRIER



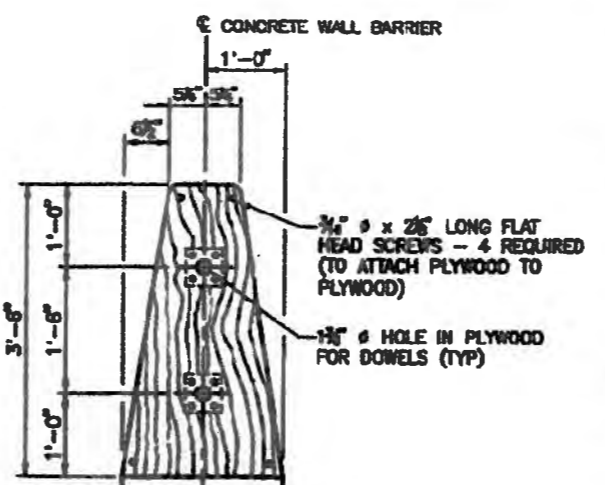
RECESS FOR COVER PLATE (COVER PLATE NOT SHOWN FOR CLARITY)

**ASSEMBLY DETAIL**



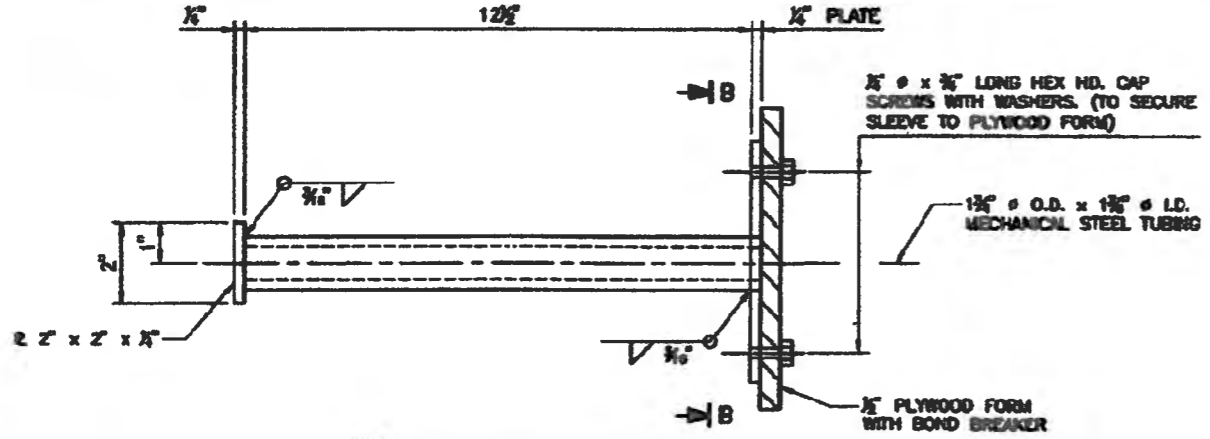
CENTERLINE OF DOWELS AND CUT LINE FOR PLYWOOD (TO FACILITATE REMOVAL)

**SECTION A-A  
BRIDGE BARRIER RAILING**

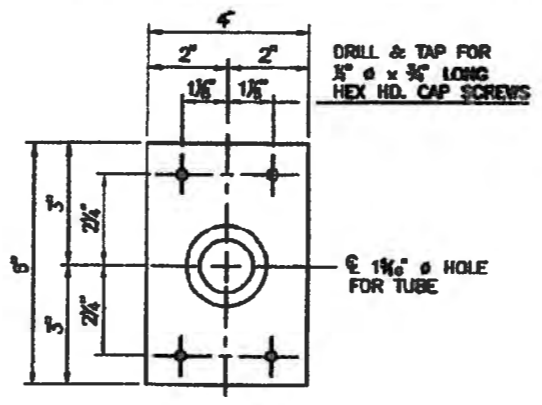


CENTERLINE OF DOWELS AND CUT LINE FOR PLYWOOD (TO FACILITATE REMOVAL)

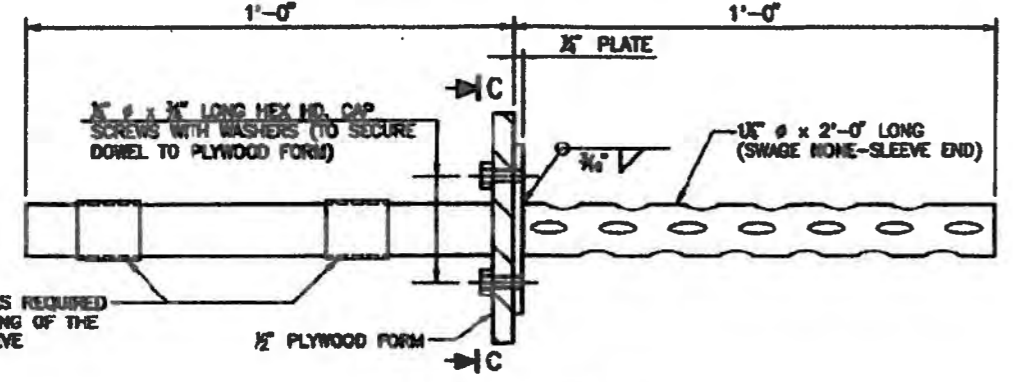
**SECTION A-A  
CONCRETE WALL BARRIER**



**DOWEL SLEEVE DETAIL**

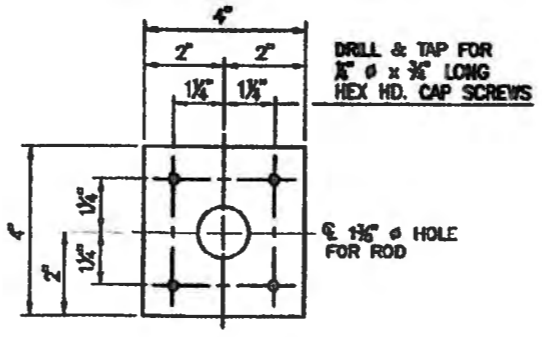


**SECTION B-B  
1/4 IN. THICK PLATE**



ELECTRICAL TAPE (AS REQUIRED) TO INSURE CENTERING OF THE DOWEL IN THE SLEEVE

**DOWEL DETAIL**



**SECTION C-C  
1/4 IN. THICK PLATE**

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	BY	NO.	BY	NO.	DATE
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"							
Near Intersection of Ridgeway Dr. & Cole Norton							
Geographic Position (NAD 27), in feet							
N.M. State Plane Coordinates (Central Zone)							
X=568,041.88, Y=1,519,125.33							
Elevation=5272.34 NOV029, in feet							
MICRO-FILM INFORMATION							
RECORDED BY							
NO.							



BRIDGE NO. 9380  
 STA. 61+28.70  
 SKEW 9°00'00" R.F.

CITY OF ALBUQUERQUE  
 DEPARTMENT OF MUNICIPAL DEVELOPMENT  
 TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
 42" DOWEL ASSEMBLY FOR BARRIER

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MS./DAY/YR.	MS./DAY/YR.
APPROVE DEC 1 3 2005	APPROVE DEC 1 2 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 51      Of 116

### TABLE OF ALLOWABLE MOVEMENT LENGTHS AND ACCEPTABLE JOINT SEALS

SKEW	MOVEMENT LENGTH (FEET)				MANUFACTURER				JOINT MOVEMENT (in.)	* "A" [DIMENSION @ MID TEMP T <sub>0</sub> ] (in.)
	CONCRETE BRIDGE		STEEL BRIDGE		WATSON-BOMAN AND ACME "STRIP SEAL" MODEL NO.	D.S. BROWN CO., INC. "STEELFLEX" MODEL NO.	STRUCTURAL ACCESSORIES INC. "ONFLEX" MODEL NO.	R.J. WATSON "STRIP SEAL" MODEL NO.		
	SEVERE CLIMATE (-10' TO 120' F) T <sub>0</sub> = 120' F	MODERATE CLIMATE (20' TO 120' F) T <sub>0</sub> = 70' F	SEVERE CLIMATE (-30' TO 120' F) T <sub>0</sub> = 45' F	MODERATE CLIMATE (0 TO 120' F) T <sub>0</sub> = 60' F						
0' to 15'	0-427	0-556	0-342	0-427	SE-400	SSA2	40SEQ	RJ-400	0 TO 4	2
15' to 30'	0-442	0-575	0-354	0-442	SE-400	SSA2	40SEQ	RJ-400	0 TO 4	2
30' to 45'	0-493	0-642	0-395	0-493	SE-400	SSA2	40SEQ	RJ-400	0 TO 4	2

\* MAXIMUM "A" IS EQUAL TO TOTAL JOINT MOVEMENT

### GENERAL NOTES

- JOINT SEALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SEALS HAVING EQUAL PERFORMANCE CHARACTERISTICS TO THOSE SHOWN MAY BE SUBSTITUTED IF THE ENGINEER'S WRITTEN APPROVAL IS OBTAINED AT LEAST TWO WEEKS PRIOR TO THE DAY OF THE BID OPENING.
- JOINT SEAL SIZES ARE BASED ON AN INSTALLATION TEMPERATURE OF T<sub>0</sub> (DEGREES F, MIDPOINT TEMPERATURE) AND JOINT MOVEMENTS FOR A RANGE OF TEMPERATURES AS NOTED IN THE TABLE ON THIS SHEET. FOR INSTALLATION TEMPERATURES BELOW T<sub>0</sub> INCREASE DIMENSION "A" BY THE AMOUNT SHOWN BELOW. FOR INSTALLATION TEMPERATURES ABOVE T<sub>0</sub> DECREASE DIMENSION "A" BY THE AMOUNT SHOWN BELOW.

#### FOR CONCRETE BRIDGES:

$$\text{CHANGE IN "A"} = 0.000072 \times L \times \cos \phi \times \Delta T$$

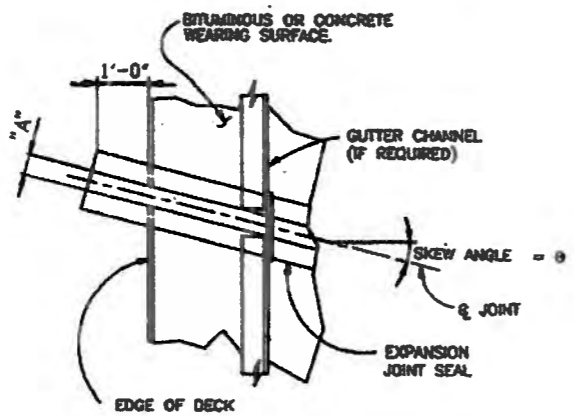
#### FOR STEEL BRIDGES:

$$\text{CHANGE IN "A"} = 0.000078 \times L \times \cos \phi \times \Delta T$$

WHERE:  
CHANGE IN "A" IS IN INCHES  
L = MOVEMENT LENGTH IN FEET (SEE SUPERSTRUCTURE DETAILS)  
φ = SKEW ANGLE  
ΔT = CHANGE IN TEMPERATURE FROM T<sub>0</sub> IN DEGREES F.

**EXAMPLE:** (CONCRETE BRIDGE IN SEVERE CLIMATE T<sub>0</sub> = 55' F)  
FOR T = 73' F, L = 100 FT. φ = 28'  
CONCRETE BRIDGE, ΔT = 73' F - 55' F = 18' F  
CHANGE IN "A" = 0.000072 x 100 x 0.8829 x 18  
= 0.1144 INCHES; SAY 1/8 INCH

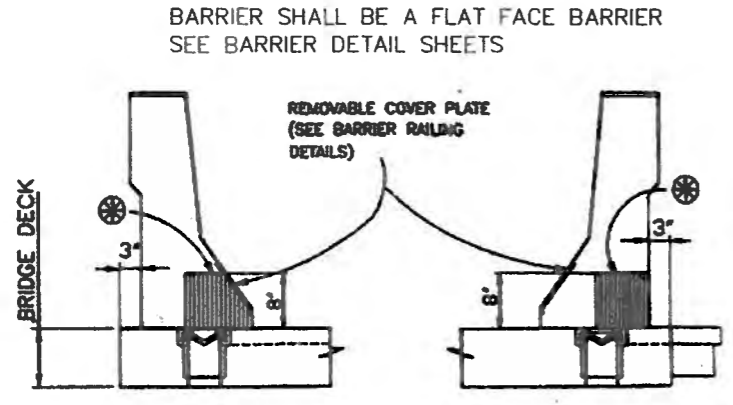
- UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR HAS THE OPTION OF INSTALLING EITHER TYPE "A" OR TYPE "B" JOINTS.
- UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL STRUCTURES SHALL BE CONSIDERED TO BE SUBJECTED TO A SEVERE CLIMATE.
- ALL SURFACES OF STEEL COMPONENTS OF THE SEAL, EXCEPT THOSE WHICH WILL BE IN CONTACT WITH THE ELASTOMERIC SEALING ELEMENT, SHALL BE GIVEN A PROTECTIVE COATING IN CONFORMANCE WITH THE SPECIFICATIONS. IN LIEU OF PAINTING, ALL COMPONENTS OF THE SEAL MAY BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH AASHTO SPECIFICATION M-111.



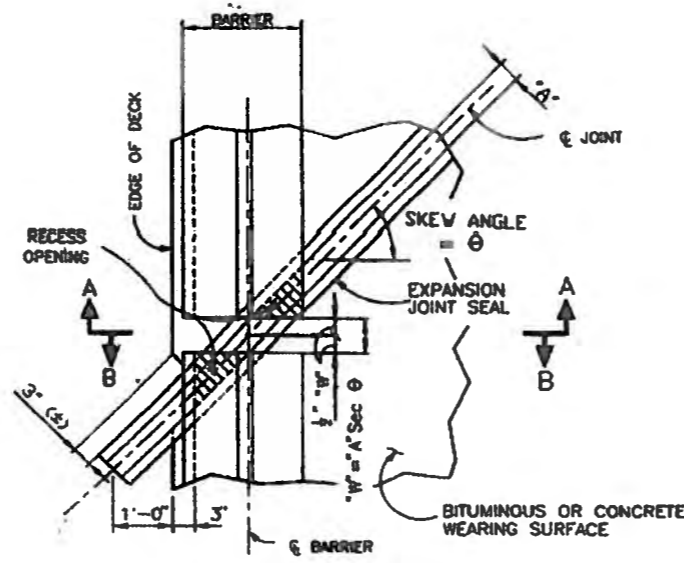
**PART PLAN - SKEWED JOINT WITH METAL RAILING**

### REQUIRED DRAWINGS

- BJS-001 GENERAL DATA
- BJS-002 TYPE A INSTALLATION
- BJS-003 TYPE B INSTALLATION



SIMILAR DETAIL FOR CURB AND SIDEWALK.  
 RECESS IN BASE OF WALL BARRIER



**PART PLAN - SKEW JOINT WITH CONCRETE BARRIER RAILING**

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	CONTRACTOR	DATE	NO.	BY	NO.	DATE
ACS 1-C11*		ACS 3 1/4" Aluminum Cop stamped ACS 1-C11*					
Near Intersection of Ridgeway Dr. & Calle Noriega		Near Intersection of Ridgeway Dr. & Calle Noriega					
Geographic Position (NAD 27), in feet		Geographic Position (NAD 27), in feet					
INSPECTED BY	DATE	N.M. State Plane Coordinates (Central Zone)					
FIELD NO.		X=366,041.88, Y=1,519,125.33					
APPROVED BY	DATE	Elevation=5272.34 NGVD29, in feet					
DESIGNED BY	DATE						
DRAWN BY	DATE						
CHECKED BY	DATE						



BRIDGE NO. 9380  
STA. 61+28.70  
SKEW 9'00"00" R.F.

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
SYSTEM I BRIDGE JOINT STRIP SEALS GENERAL DATA

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
<b>APPROVED</b> DEC 1 8 2005	<b>APPROVED</b> DEC 1 8 2005		
REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 52 Of 116





## GENERAL NOTES

1. WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986 EDITION WITH UPDATES AND APPLICABLE SUPPLEMENTAL TECHNICAL SPECIFICATIONS.
2. THE PREFABRICATED PEDESTRIAN BRIDGE SHALL CONFORM TO THE DETAILS SHOWN ON THESE PLANS AND THE REQUIREMENTS CONTAINED IN THE SPECIAL PROVISIONS FOR SECTION 541A- PREFABRICATED PEDESTRIAN BRIDGE.
3. CONCRETE SHALL BE CLASS A. CHAMFER ALL EXPLODED EDGES OF STRUCTURES 3/4" UNLESS OTHERWISE NOTED.
4. REINFORCING BARS SHALL BE GRADE 60. DIMENSIONS SHOWN REFER TO THE CENTERLINE OF BARS UNLESS NOTED OTHERWISE.

ESTIMATED BRIDGE QUANTITIES						
ITEM	DESCRIPTION	UNIT	SUPERSTRUCTURE	ABUTMENT 1	ABUTMENT 2	TOTAL
555.01	STRUCTURE EXCAVATION AND BACKFILL FOR BRIDGES	CU. YD.		7	7	14
510.02	SUBSTRUCTURE CONCRETE CLASS A	CU. YD.		3	3	6
102.01	REINFORCING BARS GRADE 60	LBS.		340	340	680
541.02	PREFABRICATED PEDESTRIAN BRIDGE	L.S.	L.S.			L.S.

## DESIGN DATA

DESIGN IS IN ACCORDANCE WITH AASHTO SPECIFICATIONS 17<sup>TH</sup> EDITION AND CURRENT INTERIMS.

DESIGN STRESSES:

REINFORCED CONCRETE:  
 SUBSTRUCTURE: F'C= 3000 PSI AT 28 DAYS  
 FY= 60,000 PSI

LIVE LOAD: 85 PSF

EARTH PRESSURE:

ACTIVE PRESSURE: 36 PSF  
 AT REST: 55 PSF  
 PASSIVE PRESSURE: 400 PSF

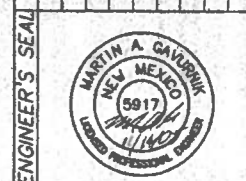
WIND VELOCITY: 80 MPH

## SPECIAL PROVISIONS

SECTION 541 A--SPECIAL PROVISIONS FOR PREFABRICATED PEDESTRIAN BRIDGE, DATED FEBRUARY 18, 2003.

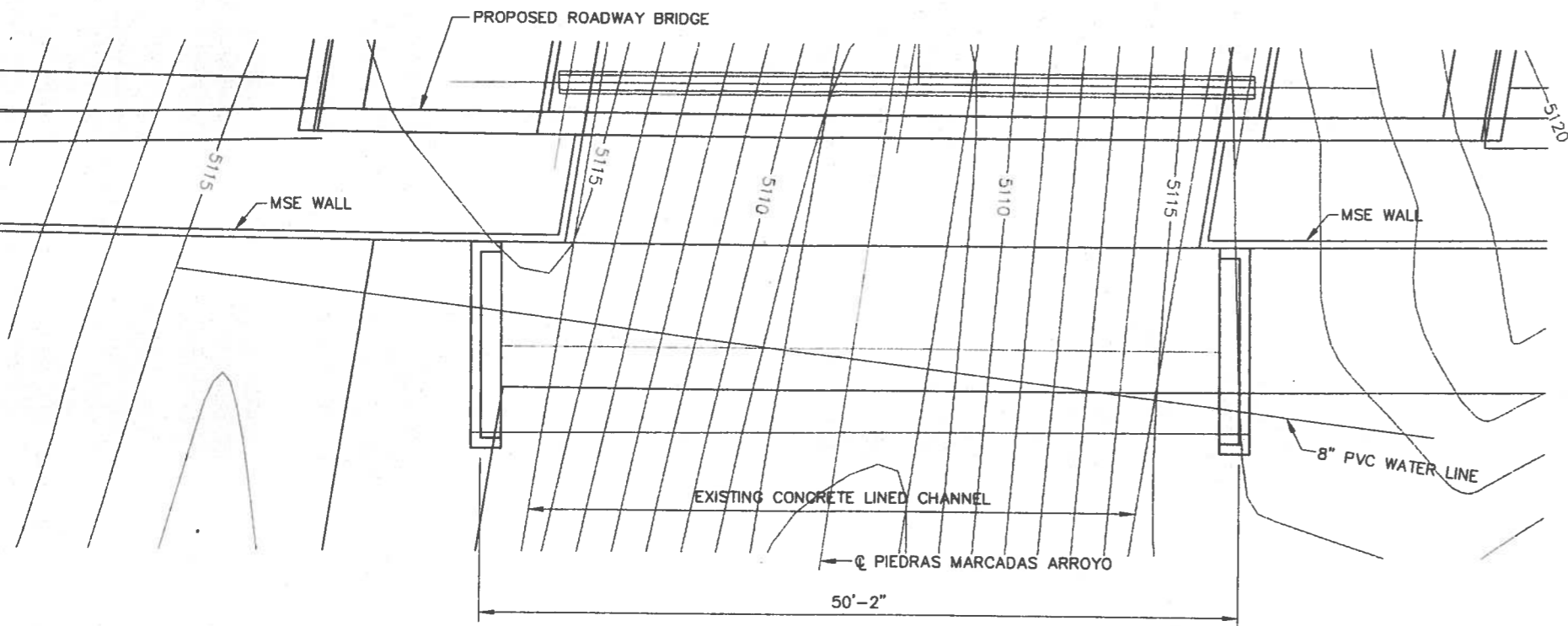
CONTRACTOR		DATE	
INSPECTOR'S NAME		DATE	
FIELD NO.		DATE	
DRAWN BY		DATE	
CHECKED BY		DATE	
DESIGNED BY		DATE	
DRAWN BY		DATE	
CHECKED BY		DATE	
DESIGNED BY		DATE	
DRAWN BY		DATE	
CHECKED BY		DATE	

NO.	DATE
BY	BY

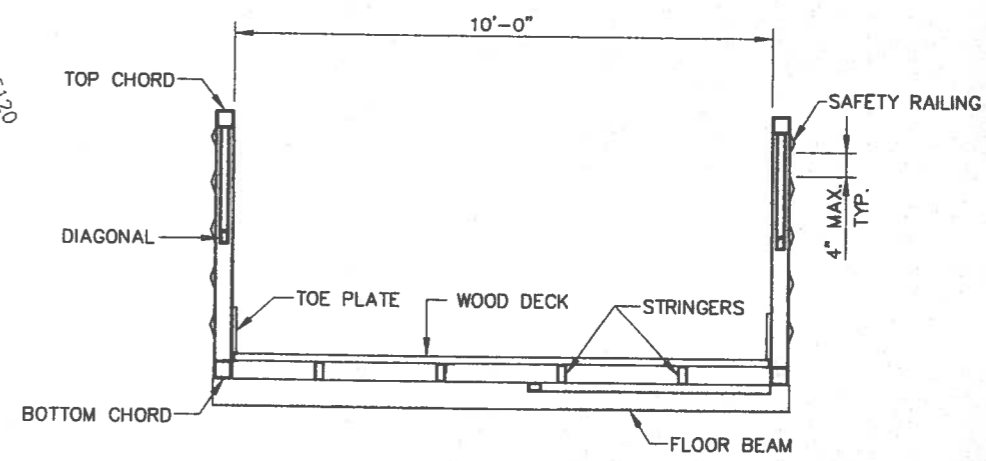


NO.	DATE
BY	BY
REMARKS	REMARKS
DESIGN	DESIGN
DATE 11/05	DATE 11/05
DATE 11/05	DATE 11/05

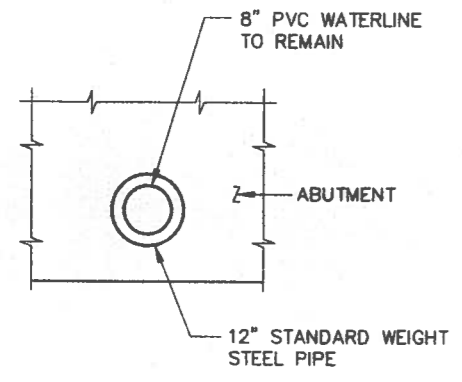
CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT TRANSPORTATION DIVISION			
PASEO DEL NORTE EXTENSION PEDESTRIAN BRIDGE OVER PIEDRAS MARCADAS ARROYO			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	NO./DAY/YR.	NO./DAY/YR.
APPROVE DEC 1 8 2005 DESIGN REVIEW COMMITTEE	APPROVE DEC 1 8 2005 CITY ENGINEER		
City Project No. COA 704902	Zone Map No. C - 11	Sheet 54	Of 116



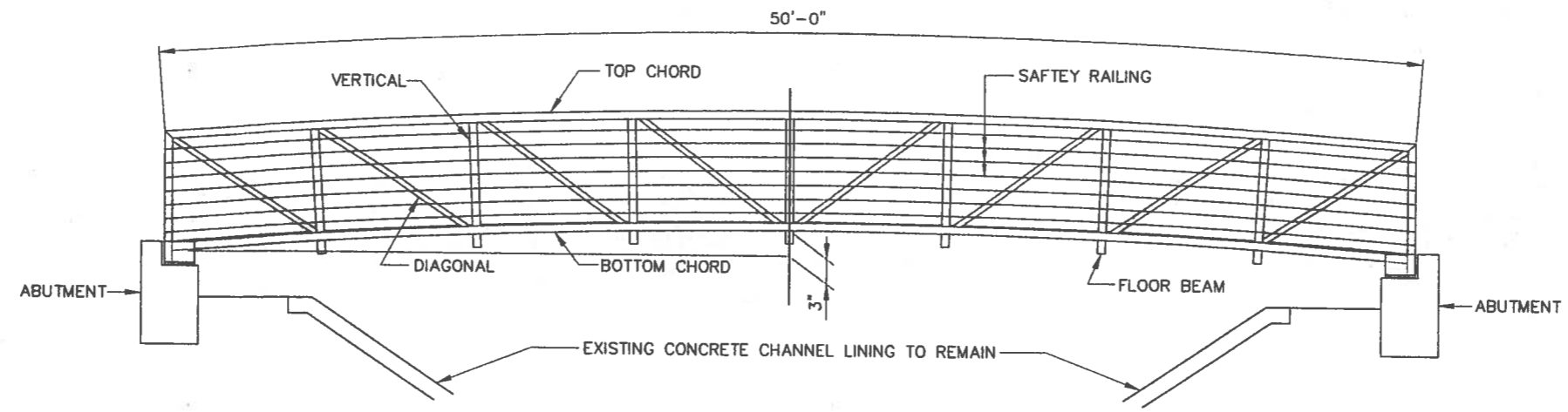
PLAN



BRIDGE SECTION



WATERLINE PENETRATION DETAIL



BRIDGE ELEVATION

PEDESTRIAN BRIDGE OVER PIEDRAS MARCADAS ARROYO

AS BUILT INFORMATION	
CONTRACTOR	DATE
DESIGNED BY	DATE
CHECKED BY	DATE
RECORDED BY	DATE
NO.	DATE

BENCH MARKS	
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	DATE
Near Intersection of Ridgeway Dr. & Calle Nortena	DATE
Geographic Position (NAD 27), in feet	DATE
N.M. State Plane Coordinates (Central Zone)	DATE
X=368,041.88, Y=1,519,126.33	DATE
Elevation=5272.34, NGVD28, in feet	DATE
RECORDED BY	DATE
NO.	DATE

SURVEY INFORMATION	
FIELD NOTES	DATE
BY	DATE
NO.	DATE



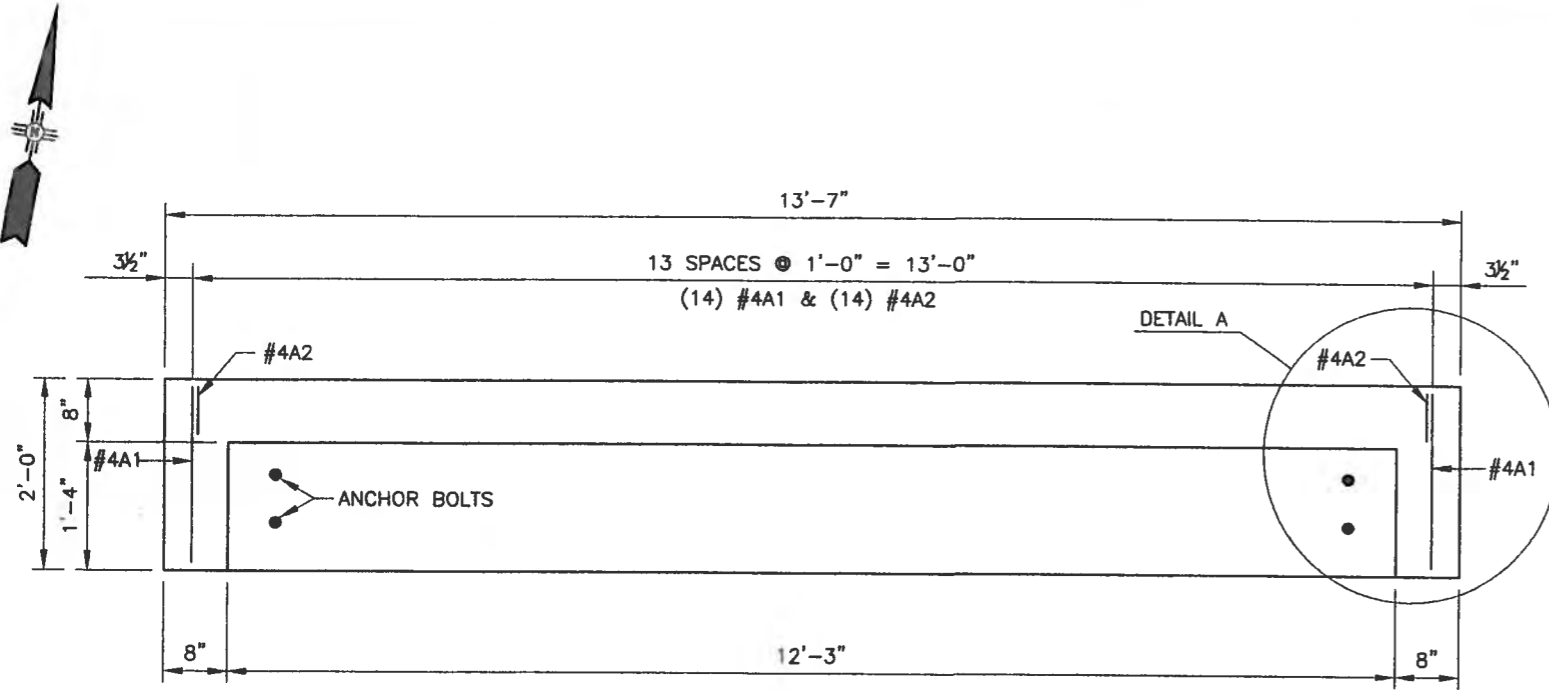
NO.	DATE	REMARKS	BY
	XX/XX/XX	DESIGN	
	XX/XX/XX		
	XX/XX/XX		
	XX/XX/XX		

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

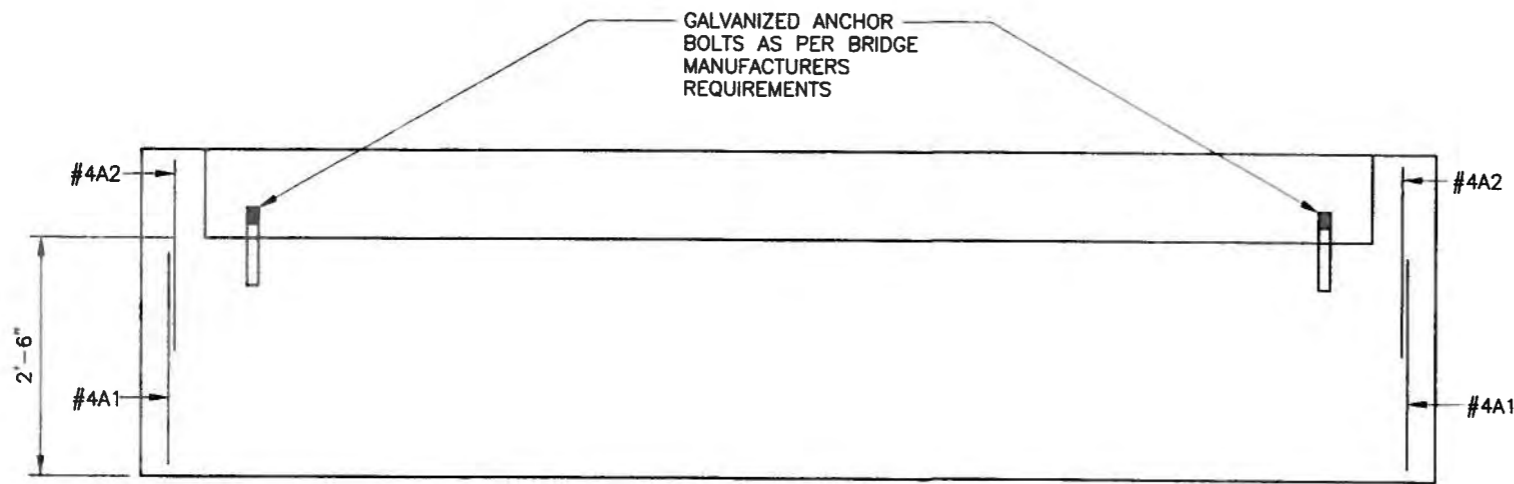
PASEO DEL NORTE EXTENSION  
BRIDGE DETAILS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	NO./DAY/YR.	NO./DAY/YR.
<b>APPROVED</b> DEC 1 2 2005	<b>APPROVED</b> DEC 1 3 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

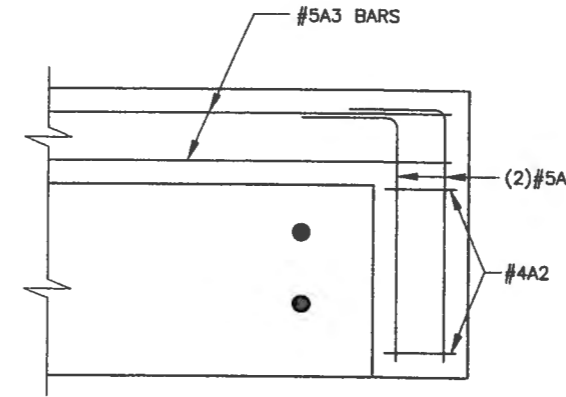
City Project No. COA 704902      Zone Map No. C - 11      Sheet 55 Of 116



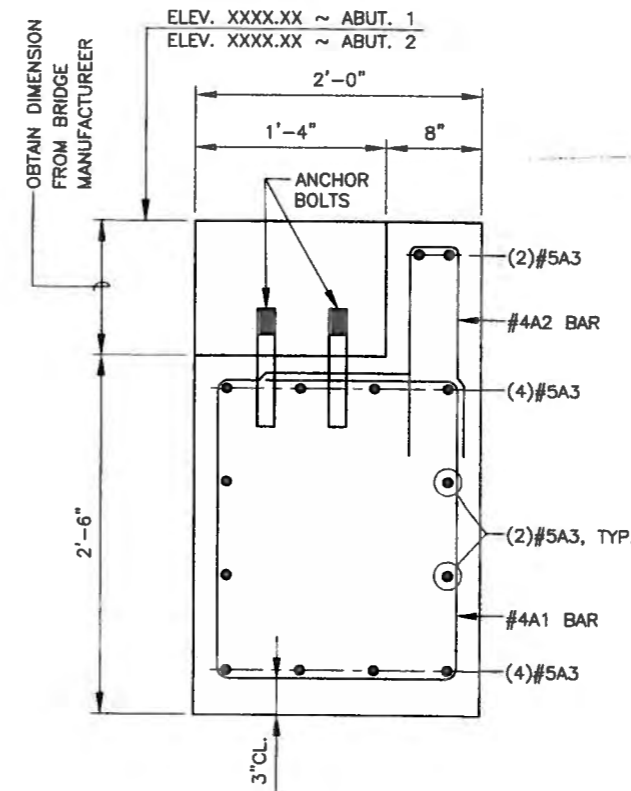
PLAN



ELEVATION

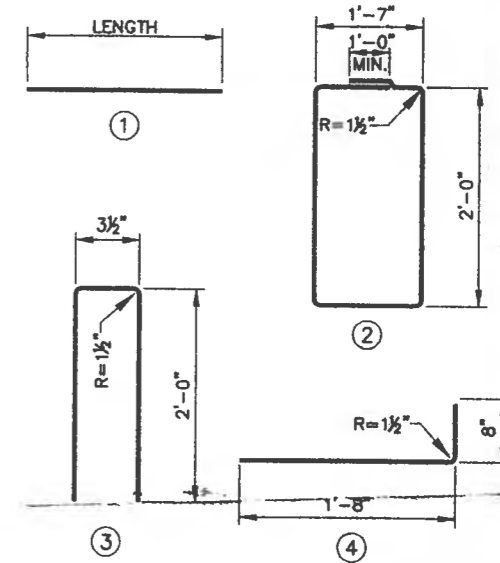


DETAIL A



SECTION A-A

REINFORCING BARS FOR ONE ABUTMENT				
REGULAR GRADE 60 BARS				
BAR	TYPE	SIZE	LENGTH	NO. REQ'D.
#4A1	2	4	8'-3"	14
#4A2	3	4	4'-7"	18
#5A3	1	5	13'-3"	14
#5A4	4	5	2'-4"	4



NOTE:  
THE DIMENSIONS SHOWN MAY NEED TO BE MODIFIED DEPENDING ON THE GEOMETRY OF THE BRIDGE SELECTED FOR CONSTRUCTION. ABUTMENT CONSTRUCTION IS NOT TO BEGIN UNTIL SHOP PLANS FOR THE BRIDGE ARE APPROVED.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	CONTRACTOR	DATE	NO.	BY	NO.	DATE
DESIGNED BY	DATE	ACCS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	DATE	BY	REMARKS	DESIGNED BY	DATE
DRAWN BY	DATE	Near Intersection of Ridgeway Dr. & Celia Nortera	DATE	BY	DESIGN	DRAWN BY	DATE
CHECKED BY	DATE	Geographic Position (NAD 27), in feet	DATE	BY		CHECKED BY	DATE
RECORDED BY	DATE	N.M. State Plane Coordinates (Central Zone)	DATE	BY			DATE
		X=398,041.88, Y=1,519,125.33	DATE	BY			DATE
		Elevation=5272.34, NGVD'28, in feet	DATE	BY			DATE
			DATE	BY			DATE

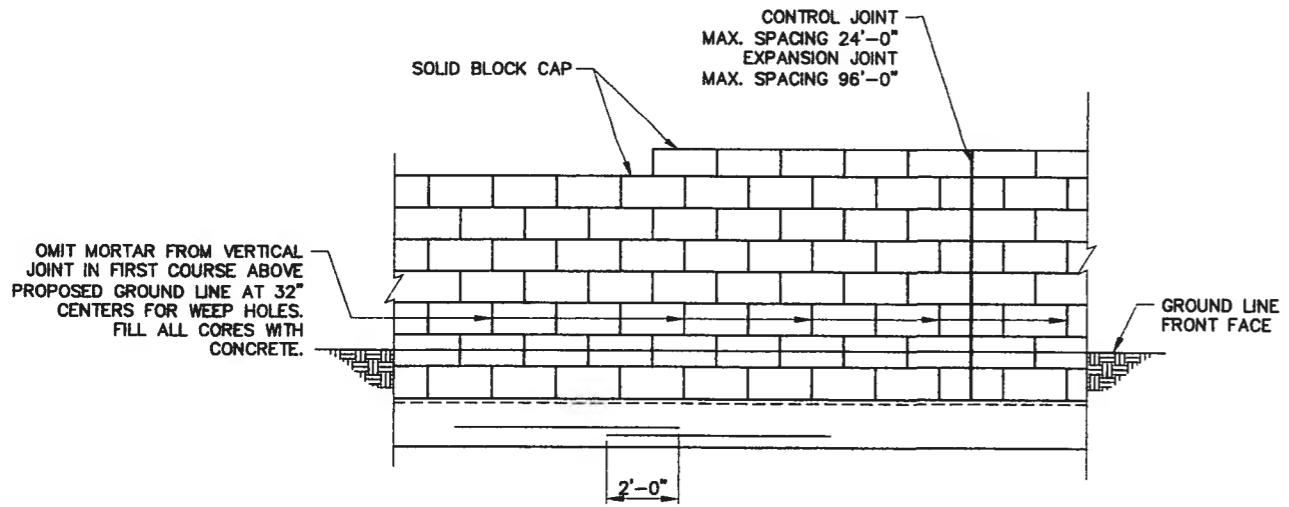


CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
ABUTMENT NO.1 DETAILS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVE DEC 1 2 2005	APPROVE DEC 1 2 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone, Map No. C - 11      Sheet 56      Of 116

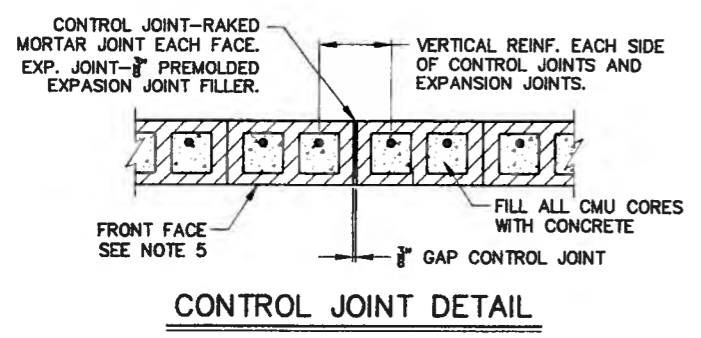


**TYPICAL ELEVATION**

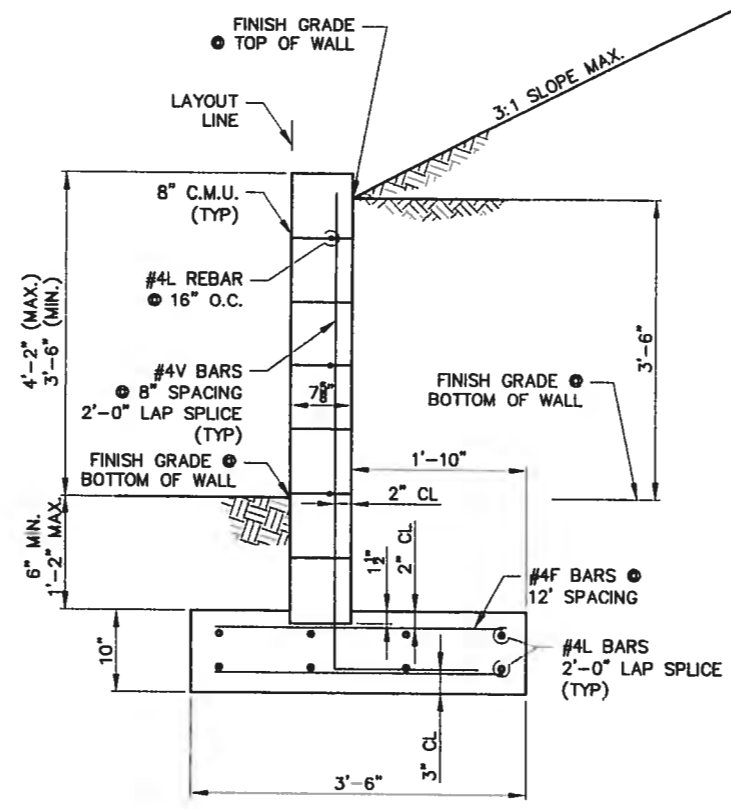
**GENERAL NOTES**

- RETAINING WALL. CONCRETE BLOCK MASONRY RETAINING WALL SHALL CONFORM TO THE REQUIREMENTS OF SECTION 540, CONCRETE BLOCK MASONRY STRUCTURES, OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. RETAINING WALLS SHALL BE PAID FOR UNDER ITEM 540.020, CONCRETE BLOCK MASONRY RETAINING WALL, CONCRETE-FILLED CORE, CIP.
- CONCRETE FOR FOOTINGS. CONCRETE SHALL BE PAID UNDER ITEM #0510.110-STRUCTURAL, REINFORCED PC CONCRETE, 4000 PSI, INCL. FORM WORK, CIP.
- MORTAR. MORTAR SHALL BE TYPE S
- REINFORCING BARS. BARS SHALL BE GRADE 60 UNLESS A DIFFERENT GRADE IS SPECIFIED ELSEWHERE IN THE PLANS. DIMENSIONS SHOWN REFER TO THE CENTERLINES OF BARS UNLESS NOTED OTHERWISE.
- CONCRETE MASONRY UNIT, BLOCK STYLE AND PATTERN SHALL BE AS SPECIFIED IN PLANS FOR PROJECT COA 705002 - SECTION 7.

ESTIMATED QUANTITIES				
STATION	LOCATON	LENGTH	ITEM NO. 510.110	ITEM NO. 540.020
			STRUCTURAL REINFORCED PC CONCRETE (CY)	CONCRETE BLOCK MASONRY RETAINING WALL (SF)
43+84.02 TO 44+55.50	LT.	75	8.1	350
43+84.02 TO 44+55.50	RT.	75	8.1	350
45+30.50 TO 50+28.50	LT.	500	54.1	2335
45+30.50 TO 50+28.50	RT.	500	54.1	2335
51+01.80 TO 56+01.50	LT.	500	54.1	2335
51+05.00 TO 56+01.50	RT.	500	54.1	2335
56+78.50 TO 56+67.53	LT.	20	2.2	83
56+78.50 TO 80+01.68	RT.	325	35.1	1518
TOTAL =			269.8	11651.7
USE =			270.0	11660.0

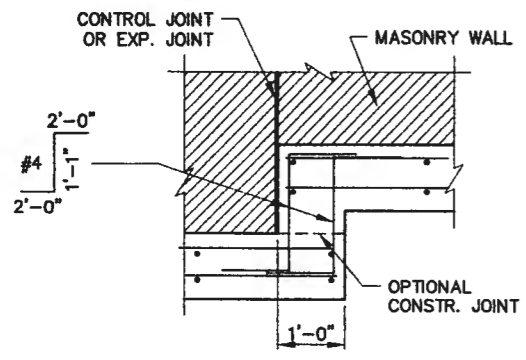


**CONTROL JOINT DETAIL**

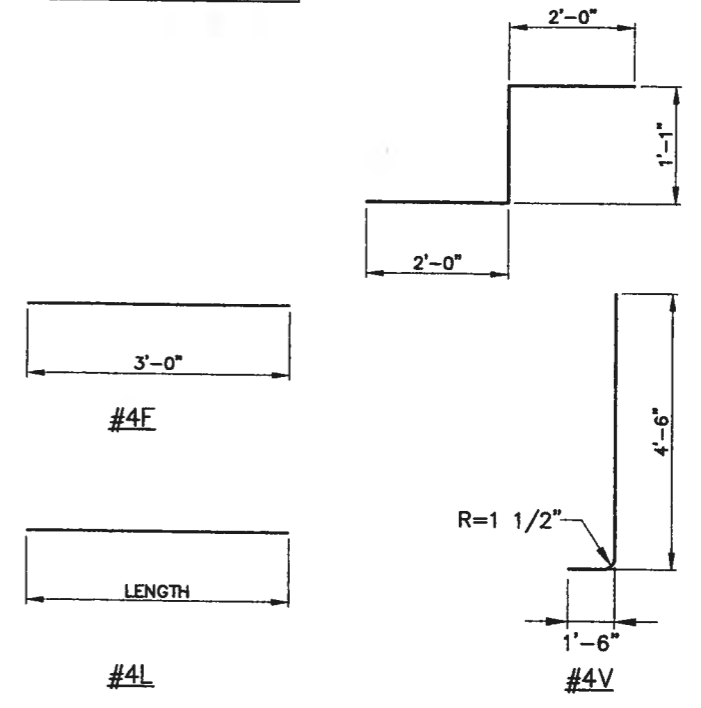


**WALL TYPICAL SECTION**

ESTIMATED QUANTITIES FOR WALL:  
 ITEM #0510.110-STRUCTURAL, REINFORCED PC CONCRETE= 2.92 cu.ft./ft  
 ITEM #540.020-CONCRETE BLOCK MASONRY RETAINING WALL = 4.67 sq.ft./ft.  
 REINFORCING BARS GRADE 60 = 17.4 lbs/ft. (CONTRACTORS INFORMATION ONLY,  
 COST INCLUDED IN ITEM #0510.110)  
 MINIMUM SPLICE LENGTH FOR #4L BARS IS 2.0'



**FOOTING STEP DETAIL**



**REINFORCING BAR DETAILS**

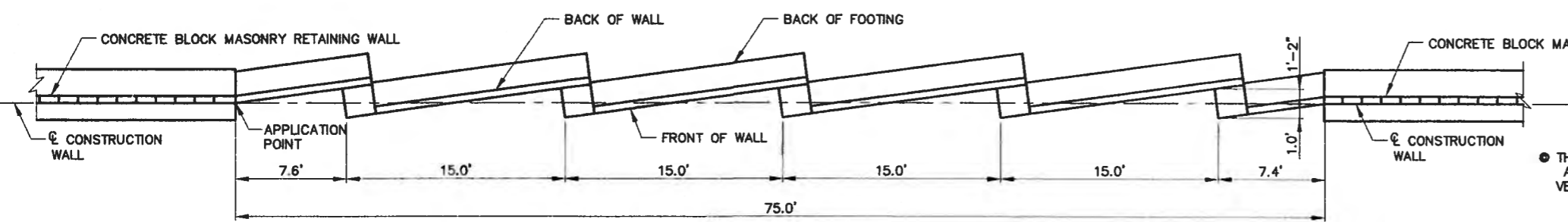
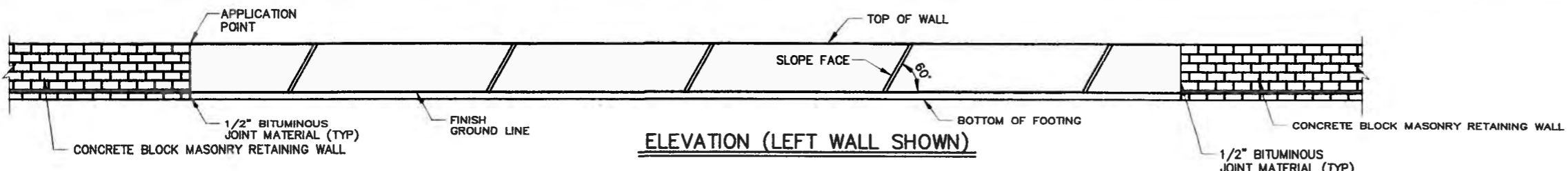
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	BY	NO.	BY	NO.	BY
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"		ACS 1-C11					
Near Intersection of Ridgeway Dr. & Calle Martano							
Geographic Position (NAD 27), in feet							
N.M. State Plane Coordinates (Central Zone)							
X=368,041.88, Y=1,515,125.33							
Elevation=5272.34 NOVD28, in feet							
RECORDED BY	DATE	NO.	BY	NO.	BY	NO.	BY
DESIGNED BY: DDB	10/2004						
DRAWN BY: ST	10/2004						
CHECKED BY: DGB	10/2004						

CITY OF ALBUQUERQUE  
 DEPARTMENT OF MUNICIPAL DEVELOPMENT  
 TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
 CONCRETE BLOCK MASONRY RETAINING WALL DETAILS

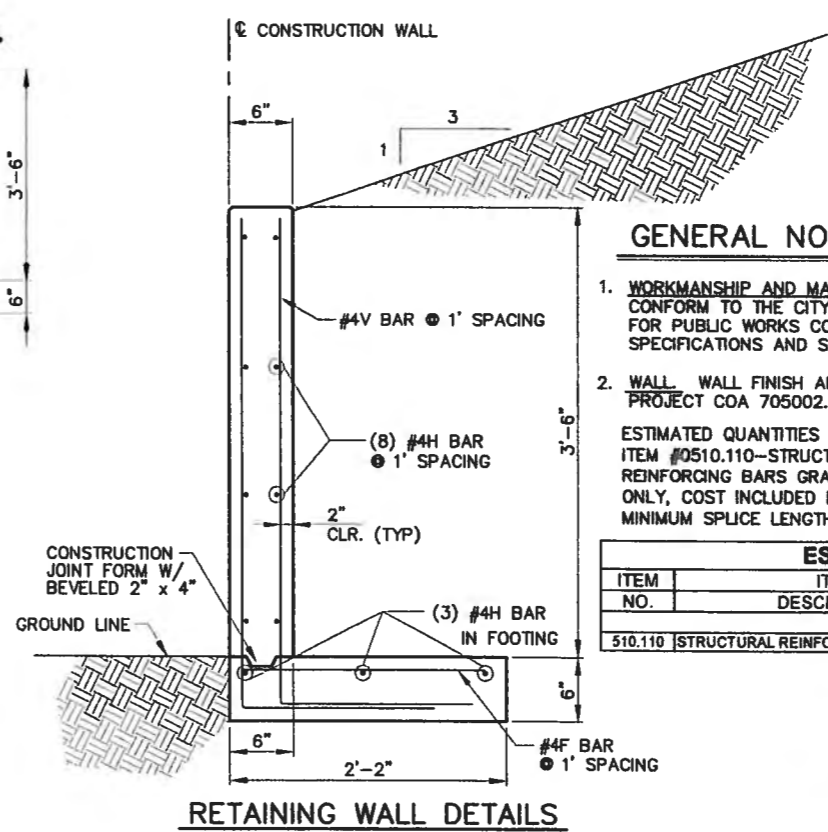
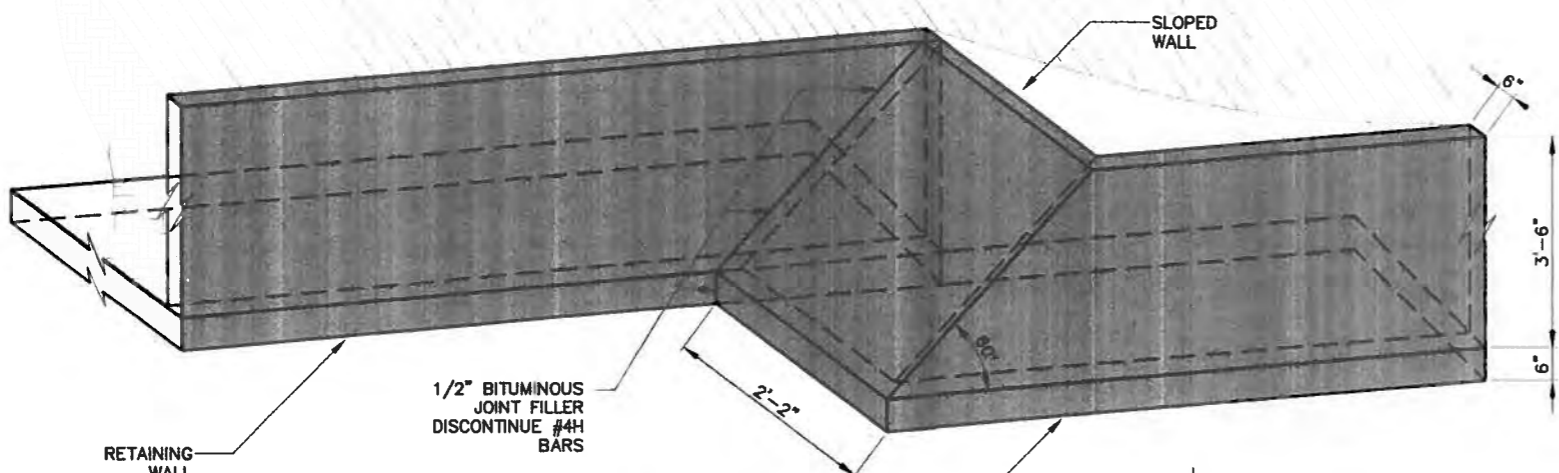
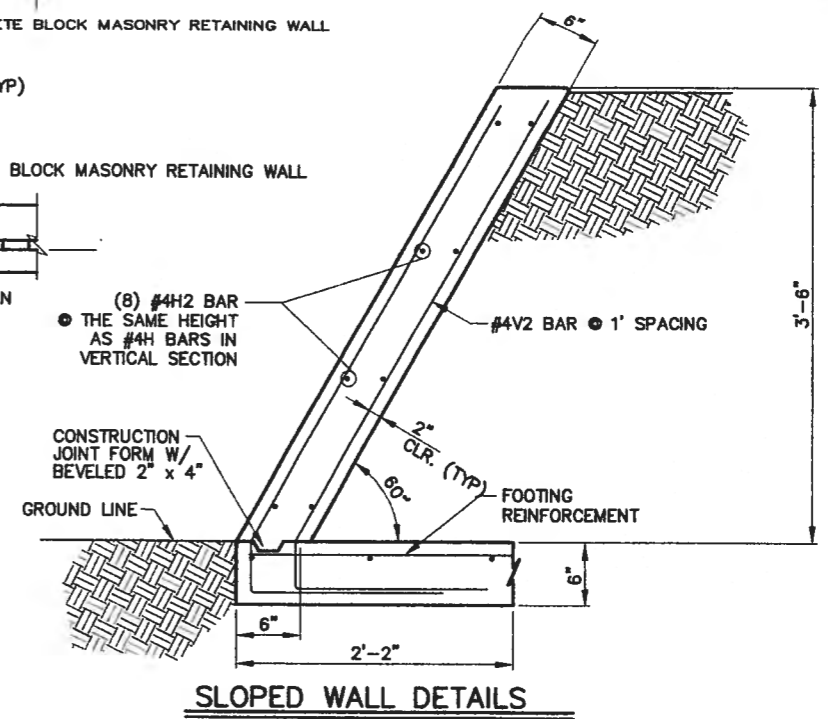
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	NO. 704902	NO. 704902
APPROVE DEC 1 8 2005	APPROVE DEC 1 8 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 57 Of 116



APPLICATION POINTS (PDN STA.)

LEFT WALL	RIGHT WALL
44+55.50	44+55.50
50+28.50	50+28.50
56+01.50	56+01.50
OFFSET 73.60' LT	OFFSET 61.62' RT

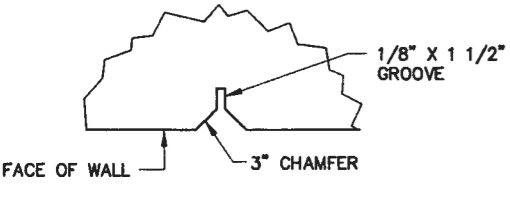


**GENERAL NOTES**

1. WORKMANSHIP AND MATERIALS. WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.
  2. WALL FINISH AND COLOR SHALL BE AS SPECIFIED IN PLANS FOR PROJECT COA 705002.
- ESTIMATED QUANTITIES FOR WALL:  
 ITEM #0510.110-STRUCTURAL REINFORCED PC CONCRETE= 2.83 cu.ft./ft  
 REINFORCING BARS GRADE 60 = 15.1 lbs/ft. (CONTRACTORS INFORMATION ONLY, COST INCLUDED IN ITEM #0510.110)  
 MINIMUM SPLICE LENGTH FOR #4H BARS IS 2.0'

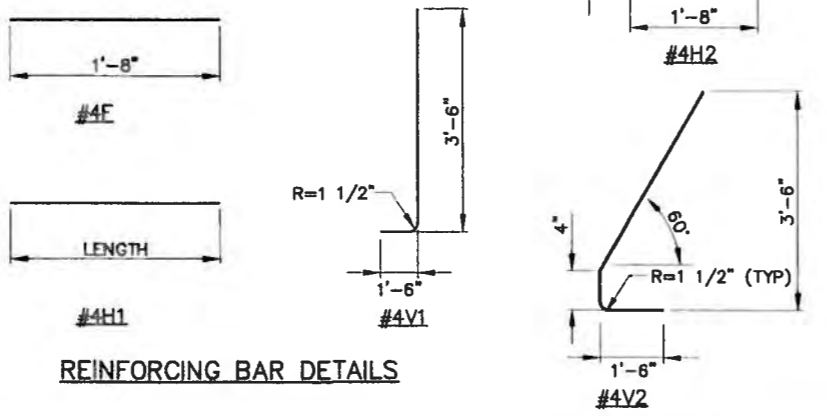
**ESTIMATED QUANTITIES**

ITEM NO.	ITEM DESCRIPTION	UNIT	LOCATION	TOTAL QUANTITY
510.110	STRUCTURAL REINFORCED PC CONCRETE	CY	270 CY/LOCATION	1620.0



**CONTRACTION JOINT DETAIL**

PLACE CONTRACTION JOINTS AT 30.0 FOOT INTERVALS.



**REINFORCING BAR DETAILS**

**AS BUILT INFORMATION**

CONTRACTOR: ACS 3 1/4" Aluminum Cap attempted "ACS 1-G11" Near Intersection of Ridgeway Dr. & Cole Northside

**BENCH MARKS**

Geographic Position (NAD 27), in feet: X=368,041.88, Y=1,619,125.33, Elevation=5272.34 NGVD29, in feet

**ENGINEER'S SEAL**

DATON B. BEAN  
 NEW MEXICO  
 15531  
 11/19/05

**DESIGN REVIEW COMMITTEE**  
 APPROVED  
 DEC 1 2 2005  
 DESIGN REVIEW COMMITTEE

**CITY ENGINEER APPROVAL**  
 APPROVED  
 DEC 1 2 2005  
 CITY ENGINEER

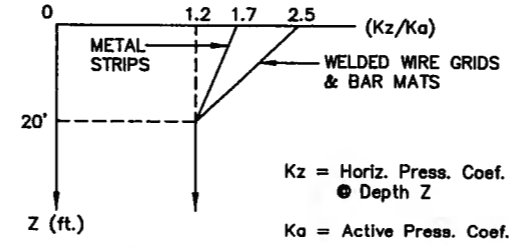
City Project No. COA 704902      Zone Map No. C - 11      Sheet 58 Of 116

### GENERAL NOTES

- EARTH RETAINING WALLS.** MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 506, INTERNALLY REINFORCED EARTH RETAINING STRUCTURES OF THE APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS. ALL PORTIONS OF THE MSE WALLS WILL BE DESIGNED BY THE WALL FABRICATOR. ANY DETAILS SHOWN ARE FOR INFORMATION ONLY. CONTRACTOR SHALL SELECT EARTH RETAINING WALLS BY THE QUALIFIED PRODUCTS LIST SHOWN ON THIS SHEET. MSE RETAINING WALLS SHALL BE CONCRETE FACE PANEL AND SOIL REINFORCEMENT TYPE. MSE RETAINING WALLS SHALL BE PAID FOR UNDER ITEM 560.001 MECHANICALLY STABILIZED EARTH (MSE) WALL, CIP.
- WORKMANSHIP AND MATERIALS.** WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.
- DIMENSIONING.** ALL DIMENSIONS ARE GIVEN IN FEET UNLESS OTHERWISE NOTED.
- CONCRETE FOR LEVELING PADS AND COPINGS.** CONCRETE SHALL BE CLASS A. CHAMFER ALL EXPOSED EDGES OF STRUCTURES 1", UNLESS OTHERWISE NOTED.
- REINFORCING BARS.** REINFORCING BARS SHALL BE GRADE 60 UNLESS A DIFFERENT GRADE IS SPECIFIED ELSEWHERE IN THE PLANS. DIMENSIONS SHOWN REFER TO THE CENTERLINES OF BARS UNLESS NOTED OTHERWISE.
- STRUCTURAL BACKFILL MATERIAL.** STRUCTURAL BACKFILL MATERIAL WITHIN THE REINFORCED EARTH ZONE IS INCIDENTAL TO MSE WALLS AND NO ADDITIONAL PAYMENT IS MADE THEREFOR. FOR THE PURPOSE OF COMPUTING EARTHWORK THE WIDTH OF THE REINFORCED EARTH ZONE IS ASSUMED TO BE EQUAL TO 0.7 TIMES THE RETAINED HEIGHT AND IS NOT INCLUDED IN THE ESTIMATED ROADWAY EARTHWORK.
- COPING.** CONCRETE WALL COPING SHALL BE CAST-IN-PLACE. THE USE OF PRE-CAST WALL COPING WILL NOT BE ALLOWED. CAST-IN-PLACE COPING SHALL BE INCIDENTAL TO THE COST OF THE MSE WALL.
- MSE WALL PANEL.** MSE WALL PANEL STYLE AND PATTERN SHALL BE AS SPECIFIED IN PLANS FOR PROJECT COA 705002 - SECTION 8.

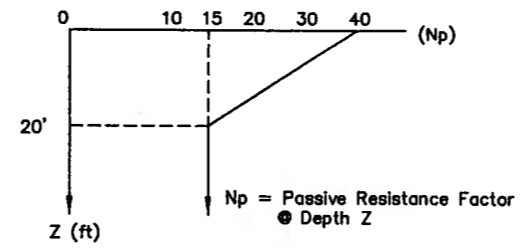
### DESIGN DATA

- DESIGN IN ACCORDANCE WITH AASHTO SPECIFICATIONS 1996 AND CURRENT INTERIMS.  
DESIGN STRESSES:  
 REINFORCED CONCRETE:  $F'_c = 3.0$  KSI AT 28 DAYS  
 MAXIMUM ALLOWABLE BEARING PRESSURE: 1.5 KSF  
 COEFFICIENT OF SLIDING: 0.4
- DESIGN OF MSE WALLS SHALL BE AS PER AASHTO REQUIREMENTS EXCEPT AS FOLLOWS:  
 A. THE DESIGN HORIZONTAL PRESSURE ON THE PANEL FACES SHALL BE DETERMINED USING HORIZONTAL EARTH PRESSURE COEFFICIENTS WHICH ARE DEPENDENT ON THE SOIL REINFORCEMENT SYSTEM AS SHOWN IN THE DIAGRAM BELOW. THE HORIZONTAL PRESSURES SHALL BE COMPUTED BASED ON THE APPLICABLE PRESSURE COEFFICIENT  $K_z$  MULTIPLIED BY THE SUM OF THE WEIGHT OF THE OVERBURDEN AT A GIVEN MESH DEPTH Z PLUS ALL APPLICABLE LIVE LOAD SURCHARGE AND OTHER REQUIRED DESIGN SURCHARGE. MEYERHOFF VERTICAL PRESSURES ARE NOT REQUIRED FOR INTERNAL STABILITY COMPUTATIONS.

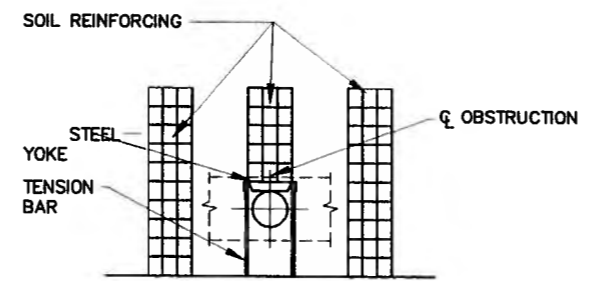


HORIZONTAL EARTH PRESSURE COEFFICIENTS

- FOR GRID STEEL REINFORCEMENT SYSTEMS WITH TRANSVERSE BAR SPACING OF, OR GREATER THAN 0.5' (6"), THE PULLOUT FACTORS FOR USE IN THE PASSIVE RESISTANCE COMPUTATION OF THE CROSSBARS SHALL BE AS SHOWN IN THE DIAGRAM BELOW.

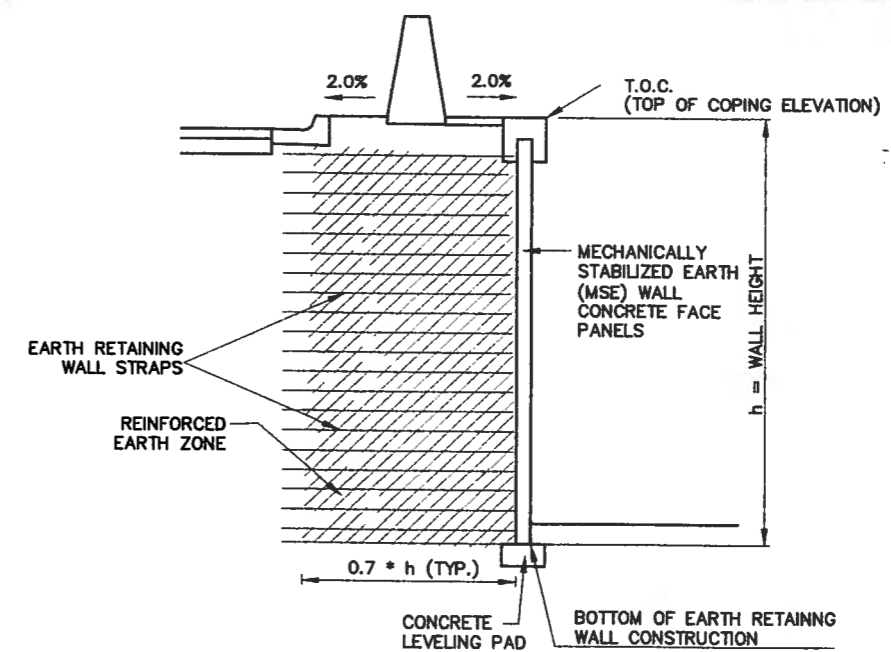


MESH REINFORCEMENT PULLOUT FACTORS

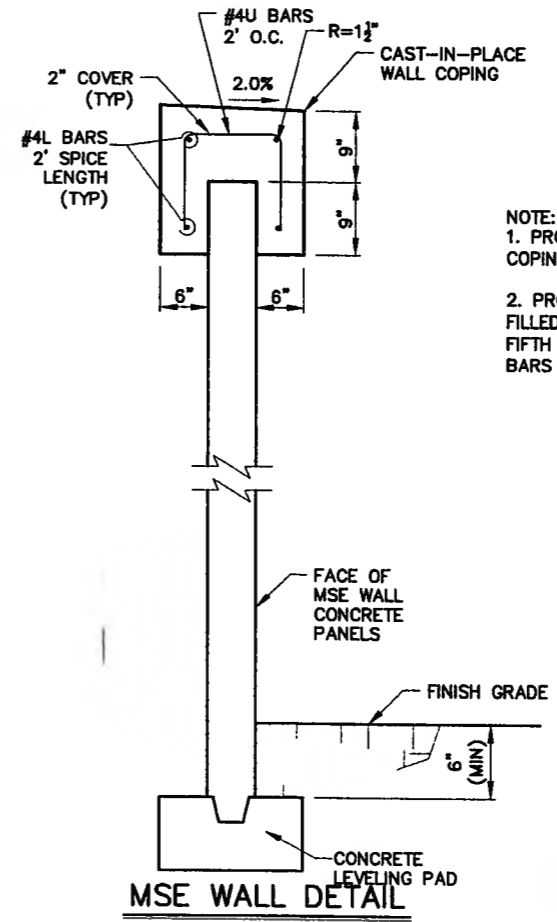


NOTE: TO AVOID CONFLICTS WITH OBSTRUCTIONS & SOIL REINFORCEMENT, THE REINFORCING MESH WILL BE FASTENED TO A YOKE BEYOND THE OBSTRUCTION USING A DETAIL SIMILAR TO THAT SHOWN. ALL PORTIONS OF THE YOKE EXTENSION WILL BE DESIGNED BY THE WALL FABRICATOR.

PLACEMENT OF SOIL REINFORCEMENT AT OBSTRUCTIONS



EARTH RETAINING WALL, REINFORCED EARTH ZONE, SCHEMATIC



NOTE:  
 1. PROVIDE CONTRACTION JOINT IN THE COPING AT 10' O.C.  
 2. PROVIDE 1/2" PREFORMED BITUMINOUS FILLED EXPANSION JOINT @ 50' O.C. (EVERY FIFTH JOINT) DISCONTINUE #4 LONGITUDINAL BARS 2" FROM EXPANSION JOINTS.

MSE WALL DETAIL

### INCIDENTAL ITEMS

- STRUCTURAL BACKFILL MATERIAL WITHIN THE REINFORCED EARTH ZONE
- CAST-IN-PLACE CONCRETE WALL COPING
- CAST-IN-PLACE CONCRETE LEVELING PAD

NOTE:  
 ITEMS LISTED ABOVE ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY NOT BE COMPLETE. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIALS REQUIRED BY SPECIAL PROVISIONS, SERIALS (STANDARD DETAILS), SUPPLEMENTAL SPECIFICATIONS OR THE STANDARD SPECIFICATIONS.

ESTIMATED QUANTITIES							
ITEM NO.	ITEM DESCRIPTION	UNIT	WALL				TOTAL QUANTITY
			NO.3	NO.4	NO.5	NO.6	
560.001	MSE WALLS	SF	625.0	1990.0	570.0	530.0	3715.0

NOTE:  
 WALL NO. 3 AND NO.4 SHALL BE A FLEXIBLE FACE MSE WALL.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	ACCS 1-C11*	DATE	NO.	BY	NO.	DATE
CONTRACTOR	DATE	ACCS 1-C11* Aluminum Cop stamped "ACS 1-C11"	DATE				
INSPECTOR'S	DATE	Near Intersection of Ridgeway Dr. & Calle Martena	DATE				
APPROVED BY	DATE	Geographic Position (NAD 27), in feet	DATE				
VERIFICATION BY	DATE	N.M. State Plane Coordinates (Central Zone)	DATE				
DRAWN BY	DATE	X=366,041.88, Y=1,819,125.33	DATE				
CHECKED BY	DATE	Elevation=5272.34, NAD29, in feet	DATE				
RECORDED BY	DATE		DATE				

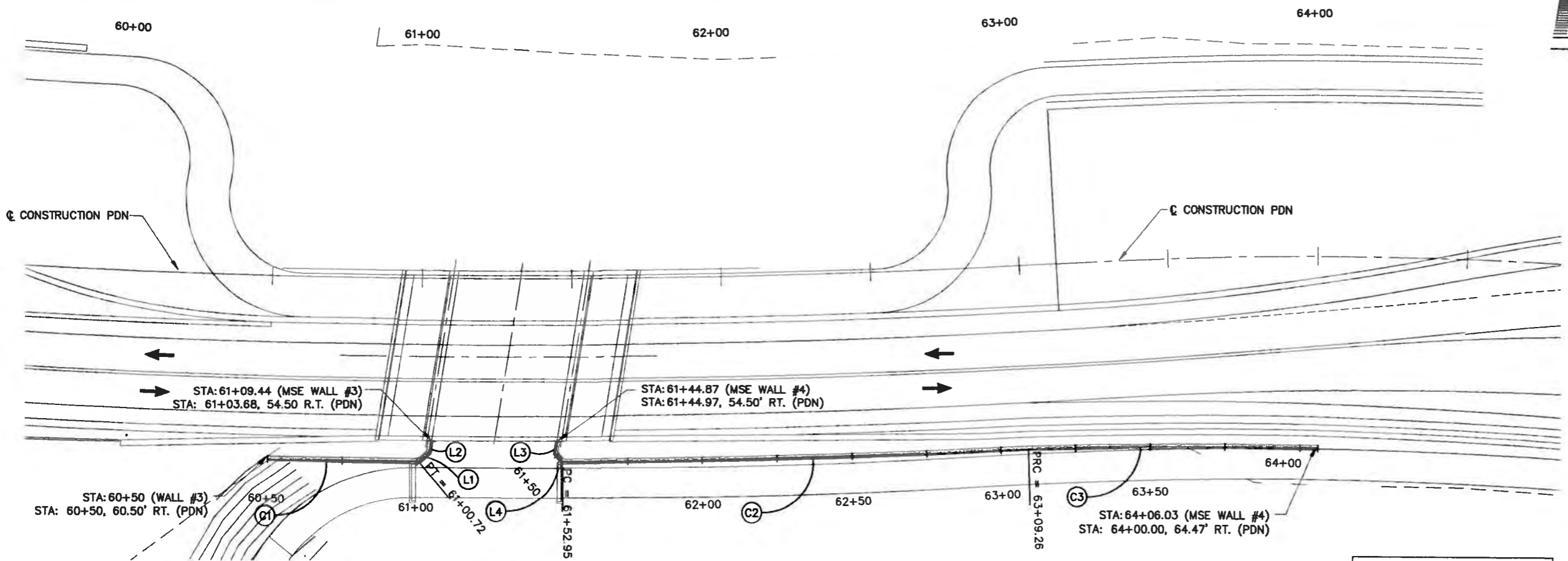


CITY OF ALBUQUERQUE  
 DEPARTMENT OF MUNICIPAL DEVELOPMENT  
 TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
 MECHANICALLY STABILIZED EARTH (MSE) WALL DETAILS

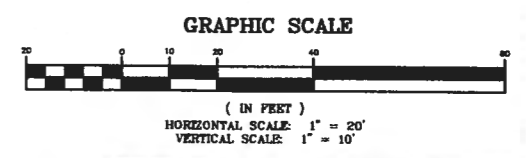
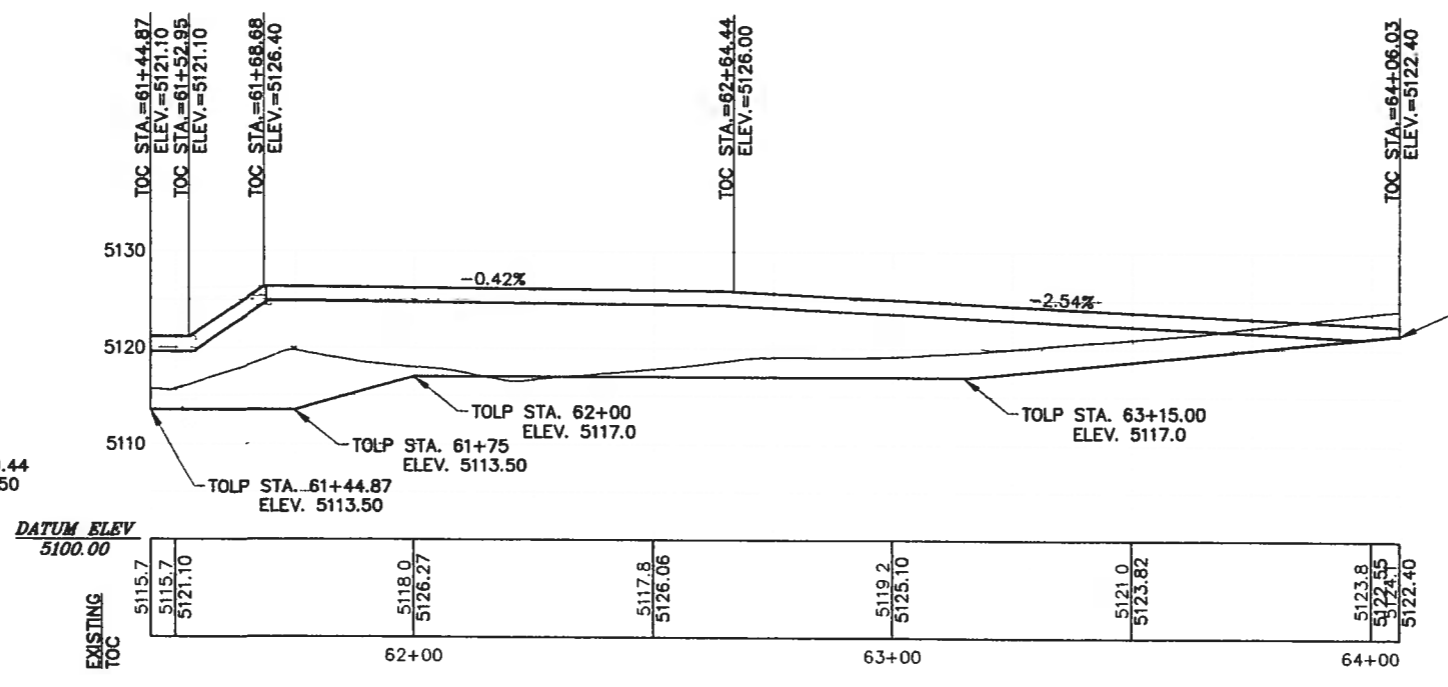
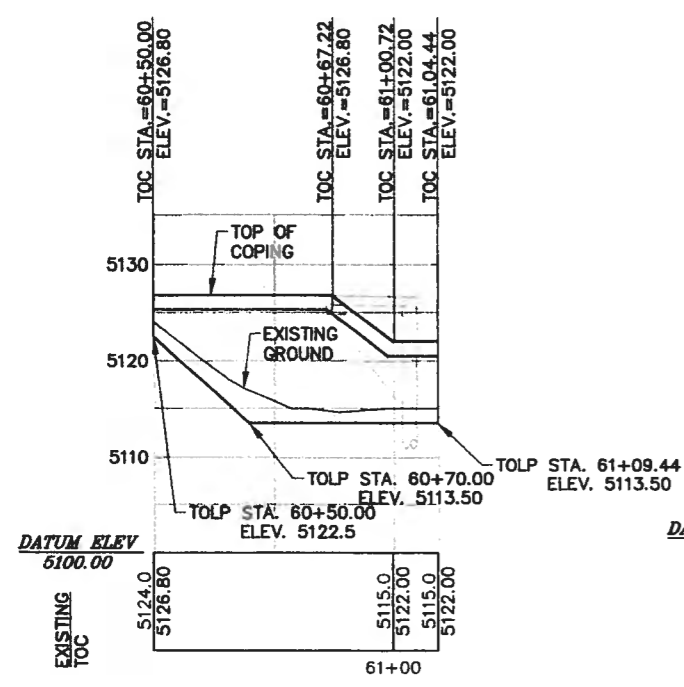
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	NO. / DAY / YR.	NO. / DAY / YR.
APPROVE DEC 1 9 2005	APPROVE DEC 1 2 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 59 Of 116



LINE TABLE		
	BEARING	LENGTH
L1	N41°03'40"E	4.54'
L2	N00°18'00"E	4.18'
L3	S00°18'00"W	4.19'
L4	S49°21'33"E	3.88'

CURVE TABLE					
CURVE	DELTA	LENGTH	RADIUS	TANGENT	PI STA:
C1	2°59'39"	96.77'	1851.82'	48.40	60+75.36
C2	2°55'26"	156.31'	3063.02'	78.17	62+31.12
C3	0°56'55"	50.72'	3063.02'	50.72	63+57.65



TOP = TOP OF COPING  
TOLP = TOP OF LEVELING PAD

AS BUILT INFORMATION	
CONTRACTOR	PARSONS BRINCKERHOFF
DATE	
DESIGNED BY	ST
CHECKED BY	DOB
DATE	10/2004
NO.	10/2004

BENCH MARKS	
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	
Geographic Position (NAD 27), in feet	
N.M. State Plane Coordinates (Central Zone)	
X=568,041.88, Y=1,519,125.33	
Elevation=5272.34 NGVD29, in feet	

SURVEY INFORMATION	
FIELD NOTES	
BY	
DATE	

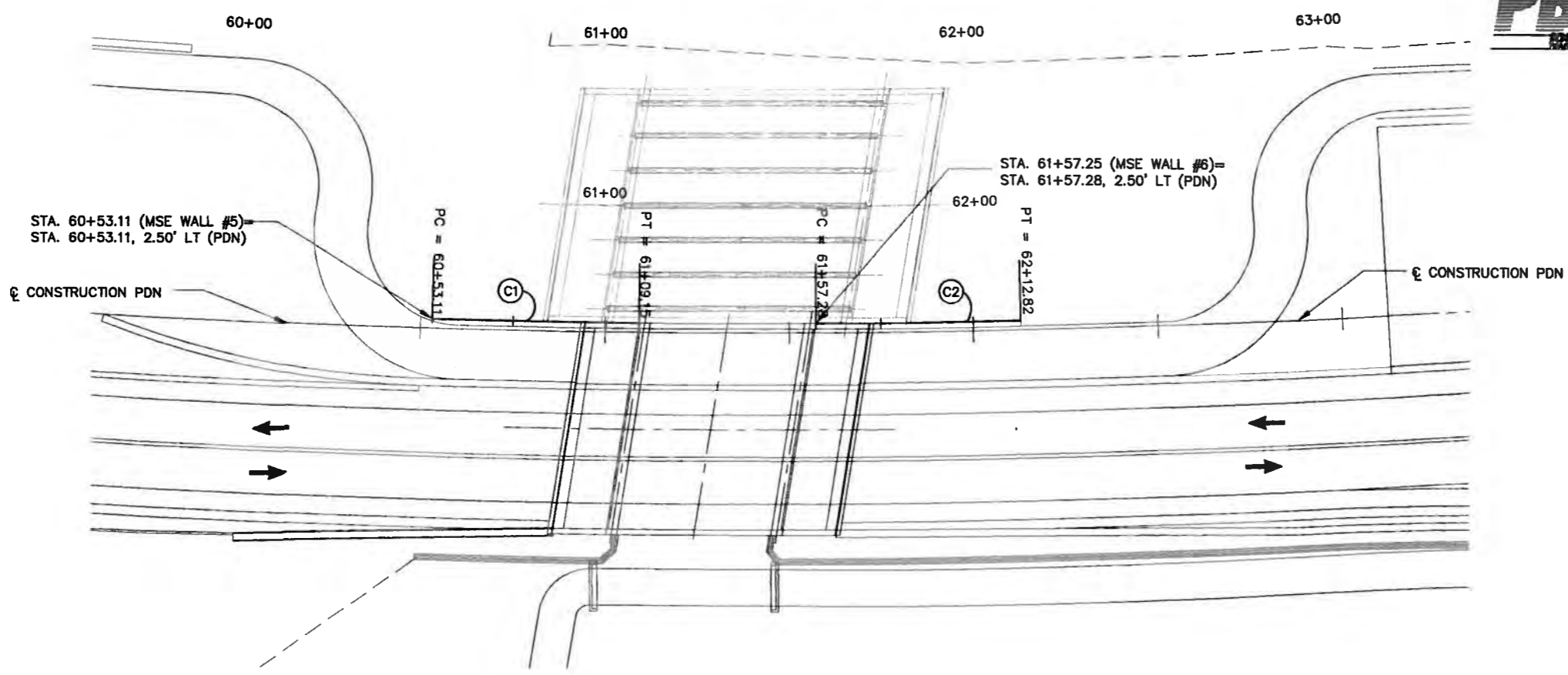
ENGINEER'S SEAL	
NO.	
DATE	
REMARKS	DESIGN
BY	DOB
DATE	10/2004
CHECKED BY	DOB
DATE	10/2004



CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

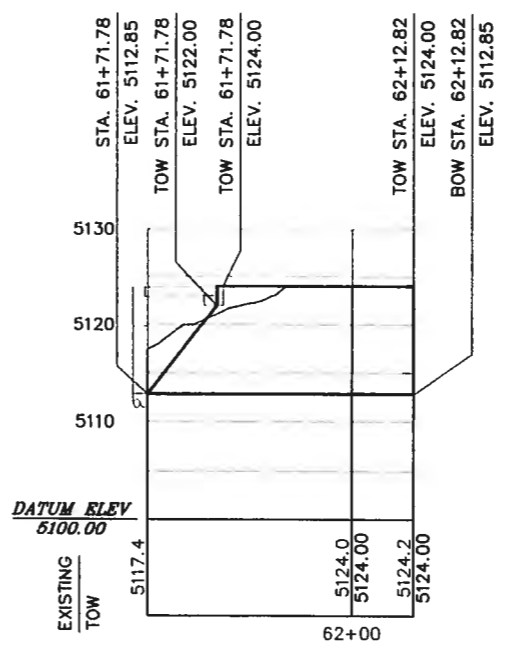
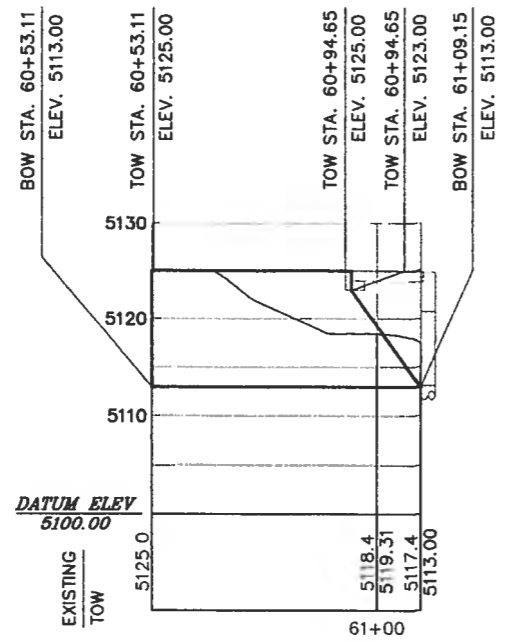
**PASEO DEL NORTE EXTENSION  
WALL #3 & #4 LAYOUT**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	NO. / DAY / YR.	NO. / DAY / YR.
APPROVE DEC 1 2 2005 DESIGN REVIEW COMMITTEE	APPROVE DEC 1 2 2005 CITY ENGINEER		
City Project No. COA 704902	Zone Map No. C - 11	Sheet 60	Of 116

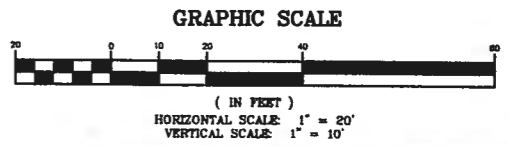


**NOTE:**  
1. MSE WALL #5 AND #6 SHALL BE A FLEXIBLE FACE TYPE WALL.

**LEGEND**  
TOW=TOP OF COPING  
BOW=TOP OF LEVELING PAD



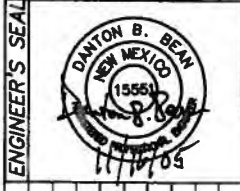
CURVE TABLE				
CURVE	DELTA	LENGTH	RADIUS	TANGENT
C1	1°04'16"	56.04'	2997.50'	28.02
C2	1°03'42"	55.54'	2997.50'	27.77



AS BUILT INFORMATION	
CONTRACTOR	DATE
STARTED BY	DATE
ACCEPTANCE BY	DATE
FIELD NOTES BY	DATE
DESIGNED BY	DATE
CHECKED BY	DATE
RECORDED BY	DATE
NO.	NO.

BENCH MARKS	
ACS 3 1/4" Aluminum Cap atopped "ACS 1-C11"	DATE
Near Intersection of Ridgeway Dr. & Calle Verdona	DATE
Geographic Position (NAD 27), in feet	DATE
N.M. State Plane Coordinates (Central Zone)	DATE
X=398,041.86, Y=1,519,125.33	DATE
Elevation=5272.34 NGVD28, in feet	DATE

SURVEY INFORMATION	
FIELD NOTES	DATE
BY	DATE
NO.	DATE



NO.	DATE	REMARKS	BY
		DESIGN	
	10/2004	DESIGNED BY: DBB	
	10/2004	DRAWN BY: ST	
	10/2004	CHECKED BY: DGB	

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
**WALL #5 & #6 LAYOUT**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MS./DAY/YR.	MS./DAY/YR.
APPROVED DEC 1 2 2005	APPROVED DEC 1 2 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 61 Of 116

SIGNING QUANTITIES



ITEM NO.	BID ITEM	UNITS	TOTAL
0440.0015	REFLECTORIZED PAINTING FOR MEDIAN NOSES	SQ. FT.	40
0441.001	REFLECTORIZED PLASTIC PAVEMENT MARKINGS 4"	LIN. FT.	12408
0441.002	REFLECTORIZED PLASTIC PAVEMENT MARKINGS 6"	LIN. FT.	349
0441.004	REFLECTORIZED PLASTIC PAVEMENT MARKINGS 12"	LIN. FT.	898
0441.005	REFLECTORIZED PLASTIC PAVEMENT MARKINGS 24"	LIN. FT.	210
0441.010	REFLECTORIZED PLASTIC RIGHT ARROW	EA.	6
0441.011	REFLECTORIZED PLASTIC LEFT ARROW	EA.	12
0441.012	REFLECTORIZED PLASTIC THRU ARROW	EA.	5
0441.0125	REFLECTORIZED PLASTIC THRU ARROW BIKE LANE	EA.	5
0441.025	REFLECTORIZED PLASTIC WORD (BIKE) BIKE LANE	EA.	1
0441.026	REFLECTORIZED PLASTIC WORD (LANE) BIKE LANE	EA.	1
0441.027	REFLECTORIZED PLASTIC WORD (ENDS) BIKE LANE	EA.	1
0441.020	REFLECTORIZED PLASTIC WORD (ONLY)	EA.	9
0441.031	REFLECTORIZED PLASTIC SYMBOL (BIKE) BIKE LANE	EA.	5
0450.001	ALUMINUM PANEL SIGNS	SQ. FT.	185
0450.010	STEEL POST & BASE POST FOR PANEL SIGN	LIN. FT.	347

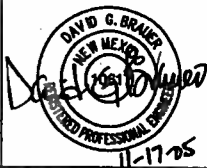
SUMMARY OF SIGNING AND STRIPING QUANTITIES

SIGN CODE	NO. OF SIGNS	SIGN AREA (SQ. FT.)	TOTAL SIGN AREA (SQ. FT.)	POST LENGTH (LIN. FT.)				MOUNTING REQUIREMENTS SQUARE TUBING (12 GA.)			BASE POSTS		
				LEFT	CTR.	RIGHT	TOTAL	1.75 LB/FT	2.0 LB/FT	2.5 LB/FT	NO.	TOTAL LENGTH (LIN. FT.)	
D11-1-24	3	3.0	9.0		8		24		X		3	10.5	
M4-11-12	2	0.3	0.7	MOUNTED WITH ANOTHER SIGN									
M7-2-12	1	0.8	0.8	MOUNTED WITH ANOTHER SIGN									
M7-5-12	1	0.8	0.8	MOUNTED WITH ANOTHER SIGN									
R2-1-36	3	12.0	36.0		10		30		X		3	10.5	
R3-7R-30	4	6.3	25.0		9		36		X		4	14.0	
R3-17-30	4	5.0	20.0		10		40		X		4	14.0	
R3-17b-30	1	2.5	2.5	MOUNTED WITH ANOTHER SIGN									
W1-1-18	2	2.3	4.5		8		16		X		2	7.0	
W1-2-36	2	9.0	18.0		10		20		X		2	7.0	
W1-3-18	2	2.3	4.5		8		16		X		2	7.0	
W1-4-36	2	9.0	18.0		10		20		X		2	7.0	
W4-2-36	2	9.0	18.0		10		10		X		2	3.5	
W6-1-36	1	9.0	9.0		10		20		X		2	7.0	
W6-2-36	1	9.0	9.0		10		10		X		2	3.5	
W6-3-36	1	9.0	9.0		10		10		X		2	3.5	
			185.0				252					94.5	

NOTES:

- ALL SIGNS, UNLESS OTHERWISE SPECIFIED, SHALL HAVE SUPER ENGINEERING GRADE SHEETING FOR THE LEGEND AND BORDER AND BACKGROUND. ONLY ALUMINUM PANEL SIGNS ARE PERMITTED.
- QUANTITIES MAY VARY AS FIELD CONDITIONS DICTATE. THE CONTRACTOR WILL BE PAID FOR ACTUAL QUANTITIES USED.
- ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE CURRENT EDITION, WITH REVISIONS, OF THE M.U.T.C.D. AND THE SUPPLEMENTAL TECHNICAL SPECIFICATIONS.
- EACH SIGN FACE SHOWN ON PLANS SHALL MEET THE SPECIFICATIONS IN THE STANDARD HIGHWAY SIGNS MANUAL (1979 EDITION) FOR PROPER ARRANGEMENT. SPACING OF LETTERS, LETTER HEIGHT, LETTER SERIES, SYMBOLS AND BORDERS FOR THE SPECIFIED SIZE AND MESSAGE AS SHOWN ON PLANS.
- THE LATERAL CLEARANCE OF SIGNS SHALL BE NO LESS THAN 2 FEET FROM FACE OF CURB.
- ALL SIGNING HARDWARE, INCLUDING BRACKETS (FOR MOUNTING ALL STREET NAME SIGNS) ARE CONSIDERED INCIDENTAL TO SIGN INSTALLATION AND NO PAYMENT WILL BE MADE THEREFOR.
- ALL WORD AND LANE USE PAVEMENT MARKINGS MUST BE PREFORMED PLASTIC. ALL LANE LINE MARKINGS MUST BE 3M-380 SERIES PREFORMED TAPE. ALL CROSSWALK MARKINGS MUST BE 90 MIL TAPE.
- PAVEMENT MARKINGS SHALL NOT BE PLACED DIRECTLY ON THE CONCRETE JOINTS.
- SEE NMDOT STANDARD SERIAL SN-75-1 (SHEETS 1 AND 2) FOR ADDITIONAL INFORMATION.

CONTRACTOR		AS BUILT INFORMATION	
DATE	DATE	DATE	DATE
INSPECTOR'S	INSPECTOR'S	INSPECTOR'S	INSPECTOR'S
FIELD BY	FIELD BY	FIELD BY	FIELD BY
NO.	NO.	NO.	NO.
BENCH MARKS		MICRO-FILM INFORMATION	
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"		RECORDED BY	
Near Intersection of Ridgeway Dr. & Calle Martena		NO.	
Geographic Position (NAD 27), in feet		DATE	
N.M. State Plane Coordinates (Central Zone)		DATE	
X=368,041.88, Y=1,516,125.33		DATE	
Elevation=5272.34 NGVD29, in feet		DATE	

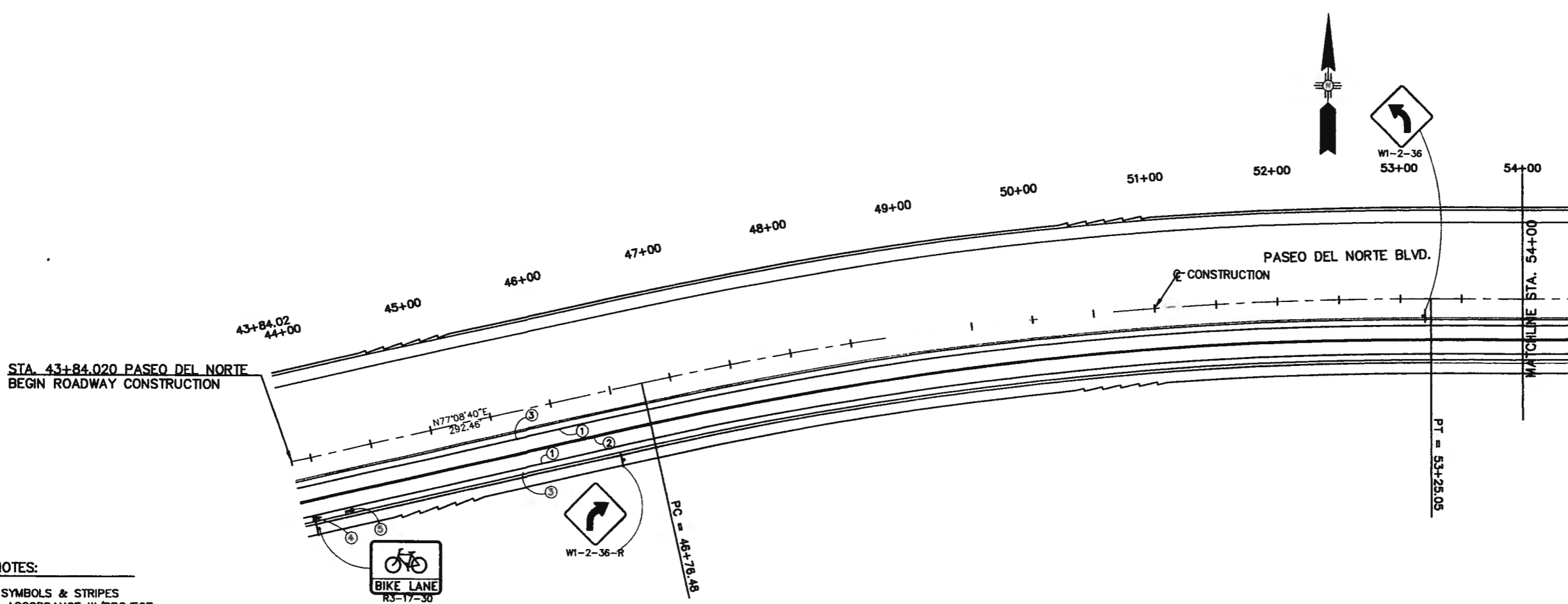
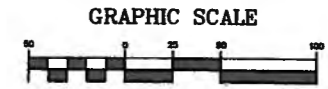


CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
**SIGNING AND STRIPING NOTES AND QUANTITIES**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVE DEC 1 2 2005	APPROVE DEC 1 2 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 62      Of 116



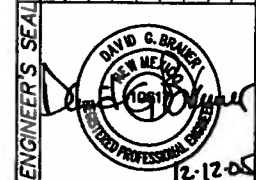
STA. 43+84.020 PASEO DEL NORTE  
BEGIN ROADWAY CONSTRUCTION

**GENERAL NOTES:**

1. BICYCLE SYMBOLS & STRIPES SHALL BE IN ACCORDANCE W/PROJECT 705002.

- LEGEND:**
- ① REFLECTORIZED PLASTIC PAVEMENT MARKINGS (4" SOLID WHITE)
  - ② REFLECTORIZED PLASTIC PAVEMENT MARKINGS (4" SOLID DOUBLE YELLOW)
  - ③ SEE SHEET 66 FOR DETAIL SHOWING BIKE LANE STRIPING
  - ④ REFLECTORIZED PLASTIC BIKE SYMBOL
  - ⑤ REFLECTORIZED PLASTIC THRU ARROW BIKE LANE SYMBOL

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	NO.	DATE	BY	NO.	DATE	BY	REMARKS
ACS 3 1/4" Aluminum Cap stamped "ACS 1-011"							
Near Intersection of Ridgeway Dr. & Cole Mortens							
Geographic Position (NAD 27), in feet							
N.M. State Plane Coordinates (Central Zone)							
X=366,041.68, Y=1,516,125.33							
Elevation=5272.34 NGVD29, in feet							
MICRO-FILM INFORMATION							
RECORDED BY							
DATE							
NO.							
DESIGNED BY							
DATE							
DRAWN BY							
DATE							
CHECKED BY							
DATE							

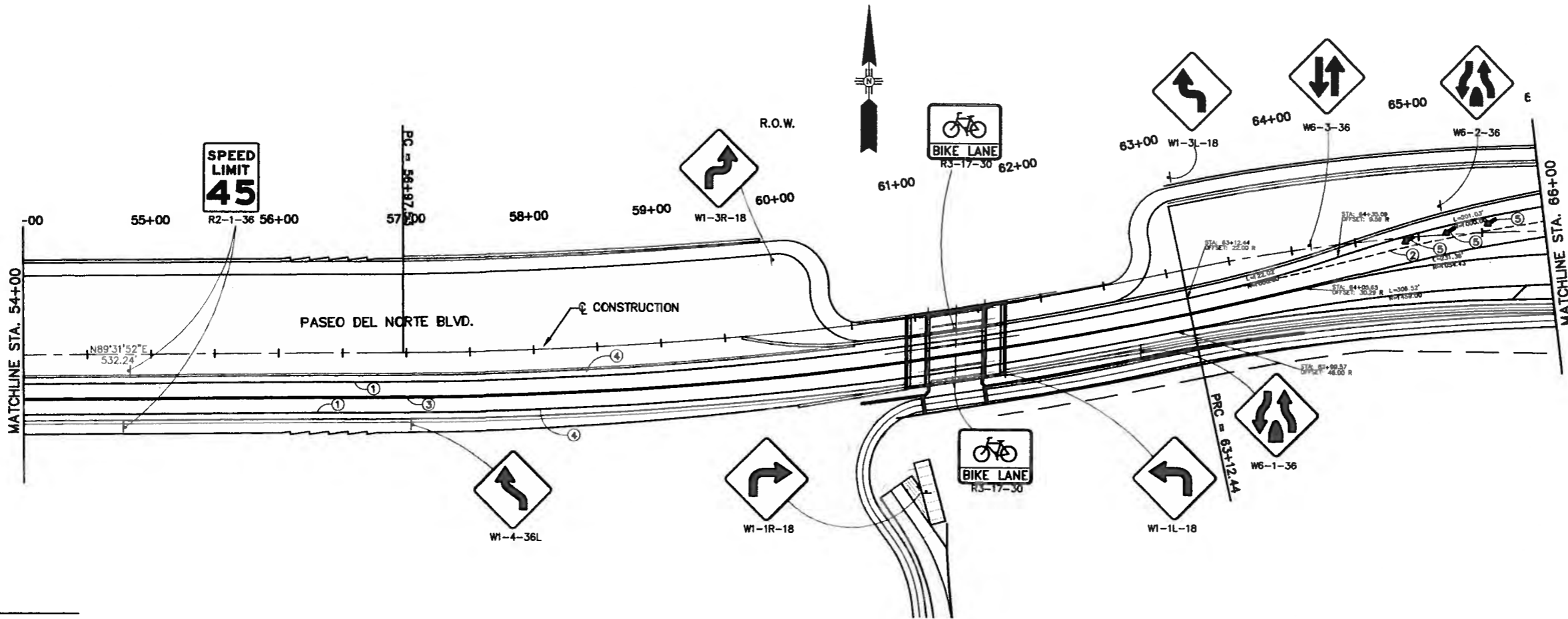
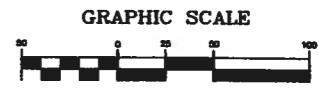


CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
SIGNING AND STRIPING PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MG./DAY/YR.	MG./DAY/YR.
APPROVE DEC 1 2 2005	APPROVE DEC 1 2 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 63      Of 116



**GENERAL NOTES:**

1. BICYCLE SYMBOLS & STRIPES SHALL BE IN ACCORDANCE W/PROJECT 705002.

**LEGEND:**

- ① REFLECTORIZED PLASTIC PAVEMENT MARKINGS (4" SOLID WHITE)
- ② REFLECTORIZED PLASTIC PAVEMENT MARKINGS (4" BROKEN WHITE-2' STRIPE, 6' SKIP)
- ③ REFLECTORIZED PLASTIC PAVEMENT MARKINGS (4" SOLID DOUBLE YELLOW)
- ④ SEE SHEET 66 FOR DETAIL SHOWING BIKE LANE STRIPING
- ⑤ REFLECTORIZED PLASTIC ARROW, THROUGH

AS BUILT INFORMATION	
CONTRACTOR	
WORK	
APPROVED BY	
DATE	
DESIGNED BY	
DATE	
FIELD CHECKED BY	
DATE	
REVISIONS	
CONTRACT NO.	
DATE	
RECORDED BY	
DATE	
NO.	

BENCH MARKS	
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	
Near Intersection of Ridgeway Dr. & Calle Martena	
Geographic Position (NAD 27), in feet	
N.M. State Plane Coordinates (Central Zone)	
X=368,041.88, Y=1,518,125.33	
Elevation=5272.34 NGVD29, in feet	

SURVEY INFORMATION	
FIELD NOTES	
NO.	
BY	
DATE	

ENGINEER'S SEAL	
DAVID G. BRANER	
Professional Engineer	
2.12.05	

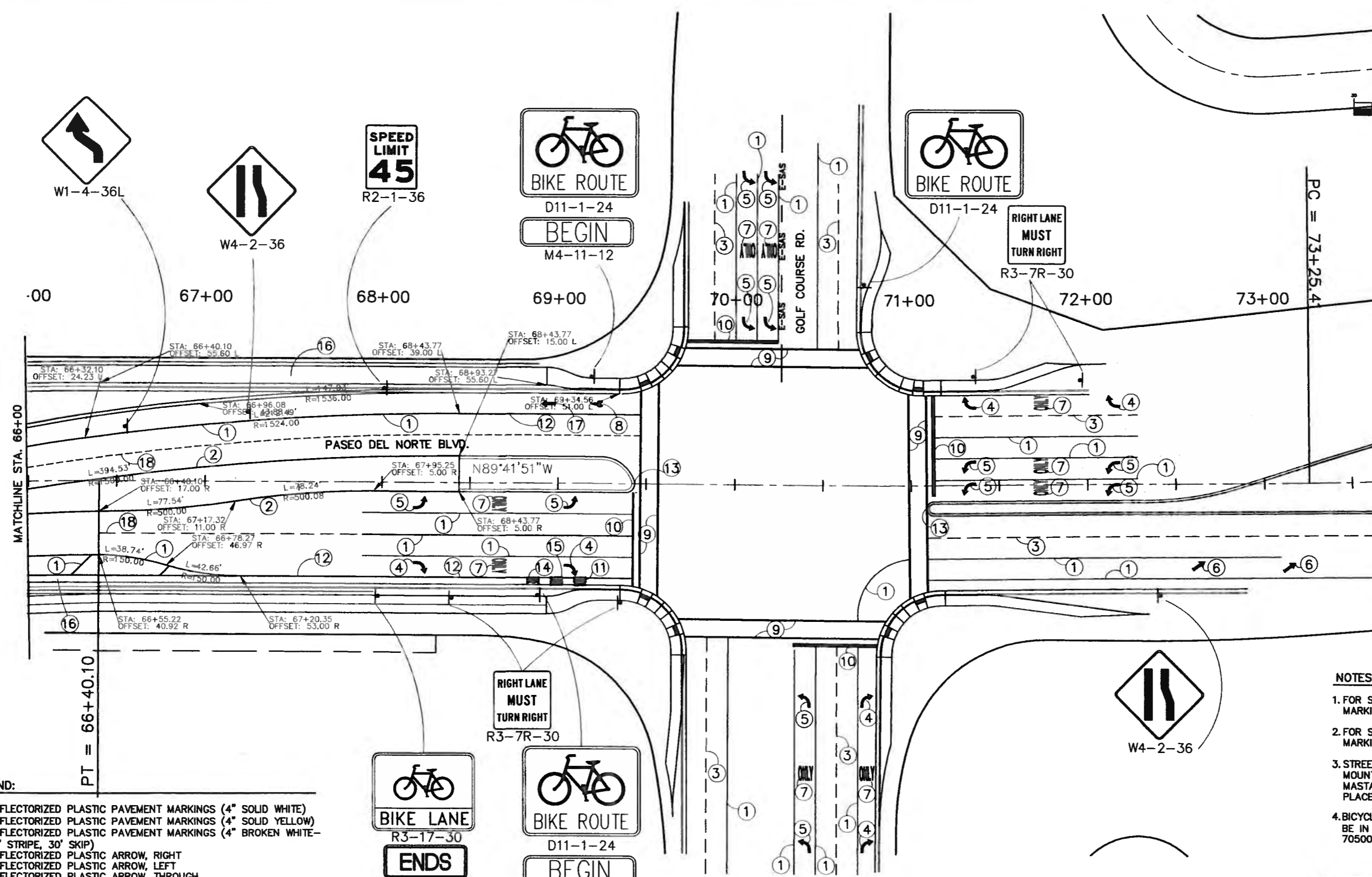
CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

**PASEO DEL NORTE EXTENSION  
SIGNING AND STRIPING PLAN**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MSL/DAY/YR.	MSL/DAY/YR.
APPROVE DEC 1 8 2005	APPROVE DEC 1 8 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 64      Of 116

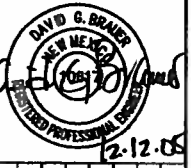
GRAPHIC SCALE



- LEGEND:**
- ① REFLECTORIZED PLASTIC PAVEMENT MARKINGS (4" SOLID WHITE)
  - ② REFLECTORIZED PLASTIC PAVEMENT MARKINGS (4" SOLID YELLOW)
  - ③ REFLECTORIZED PLASTIC PAVEMENT MARKINGS (4" BROKEN WHITE - 10' STRIPE, 30' SKIP)
  - ④ REFLECTORIZED PLASTIC ARROW, RIGHT
  - ⑤ REFLECTORIZED PLASTIC ARROW, LEFT
  - ⑥ REFLECTORIZED PLASTIC ARROW, THROUGH
  - ⑦ REFLECTORIZED PLASTIC WORD, ONLY
  - ⑧ REFLECTORIZED PLASTIC BIKE SYMBOL
  - ⑨ REFLECTORIZED PLASTIC PAVEMENT MARKINGS, 12" WHITE
  - ⑩ REFLECTORIZED PLASTIC PAVEMENT MARKINGS, 24" WHITE
  - ⑪ REFLECTORIZED PLASTIC WORD, ENDS
  - ⑫ REFLECTORIZED PLASTIC PAVEMENT MARKINGS, 6" WHITE
  - ⑬ PAINT MEDIAN NOSE YELLOW
  - ⑭ REFLECTORIZED PLASTIC WORD, BIKE
  - ⑮ REFLECTORIZED PLASTIC WORD, LANE
  - ⑯ SEE SHEET 66 FOR DETAIL SHOWING BIKE LANE STRIPING
  - ⑰ REFLECTORIZED PLASTIC THRU ARROW BIKE LANE
  - ⑱ REFLECTORIZED PLASTIC PAVEMENT MARKINGS (4" BROKEN WHITE - 2' STRIPE, 6' SKIP)

- NOTES:**
1. FOR SPACING OF TURN LANE MARKINGS, SEE SHEET 66
  2. FOR SPACING OF BIKE LANE MARKINGS, SEE SHEET 66
  3. STREET NAME SIGNS CURRENTLY MOUNTED ON TRAFFIC SIGNAL MASTARMS SHALL REMAIN IN PLACE.
  4. BICYCLE SYMBOLS & STRIPES SHALL BE IN ACCORDANCE W/PROJECT 705002.

AS BUILT INFORMATION	
CONTRACTOR	DATE
BENCH MARKS	
ACI 3 1/4" Aluminum Cap stamped "ACI 1-C11"	
Near Intersection of Ridgeway Dr. & Calle Nortena	
SURVEY INFORMATION	
FIELD NOTES	DATE
ENGINEER'S SEAL	
MICRO-FILM INFORMATION	
RECORDED BY	DATE




CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

**PASEO DEL NORTE EXTENSION  
SIGNING AND STRIPING PLAN**

DESIGN REVIEW COMMITTEE <b>APPROVE</b> DEC 1 2 2005	CITY ENGINEER APPROVAL <b>APPROVE</b> DEC 1 2 2005	NO./DAY/YR.	NO./DAY/YR.
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 65 Of 116

# SIGN LEGEND

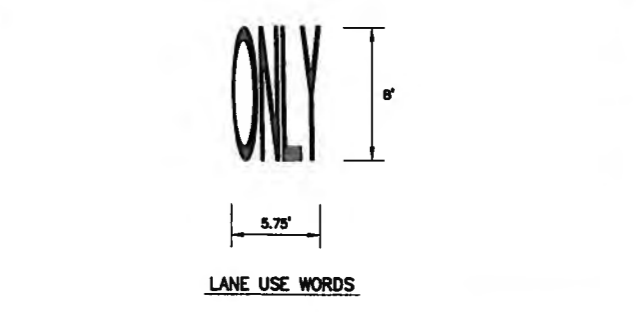
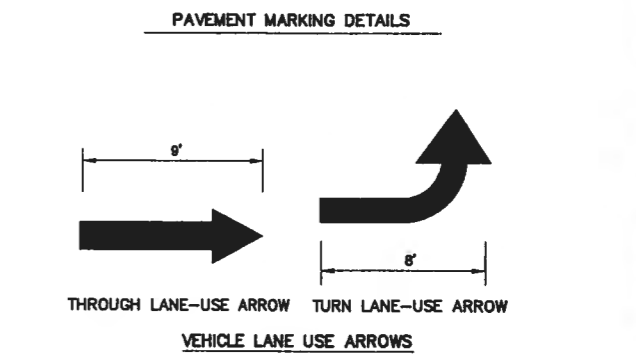
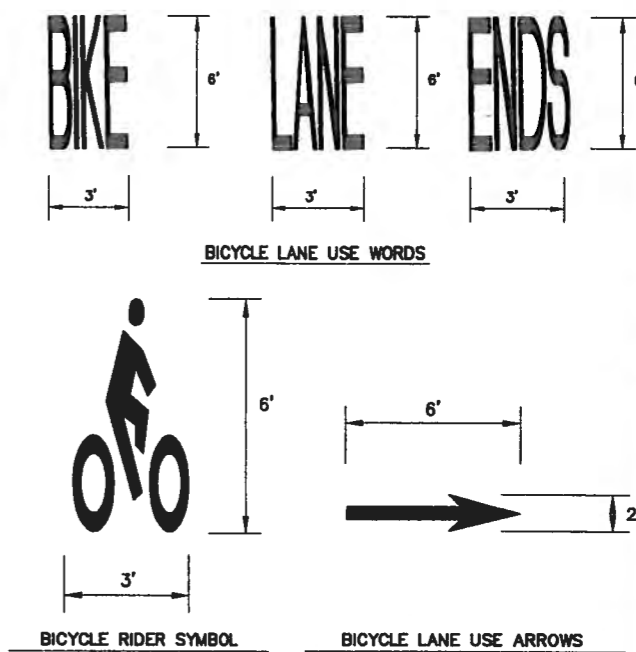
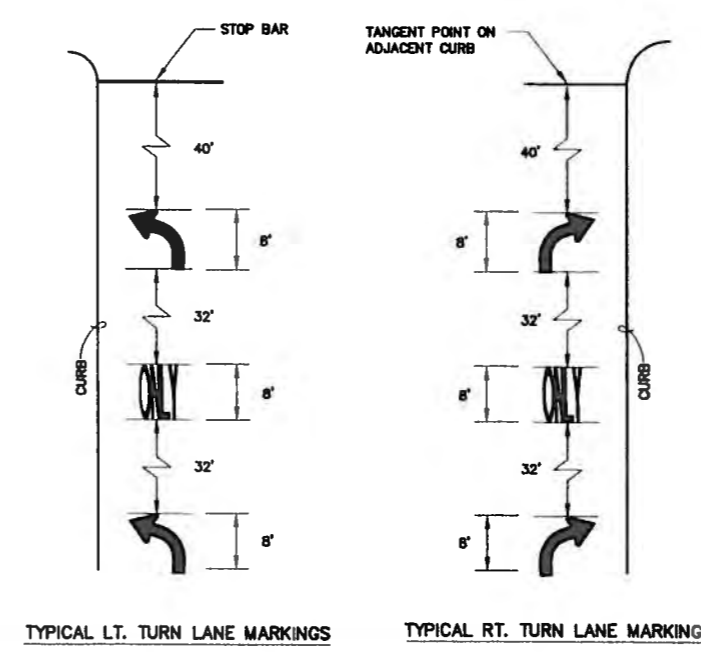
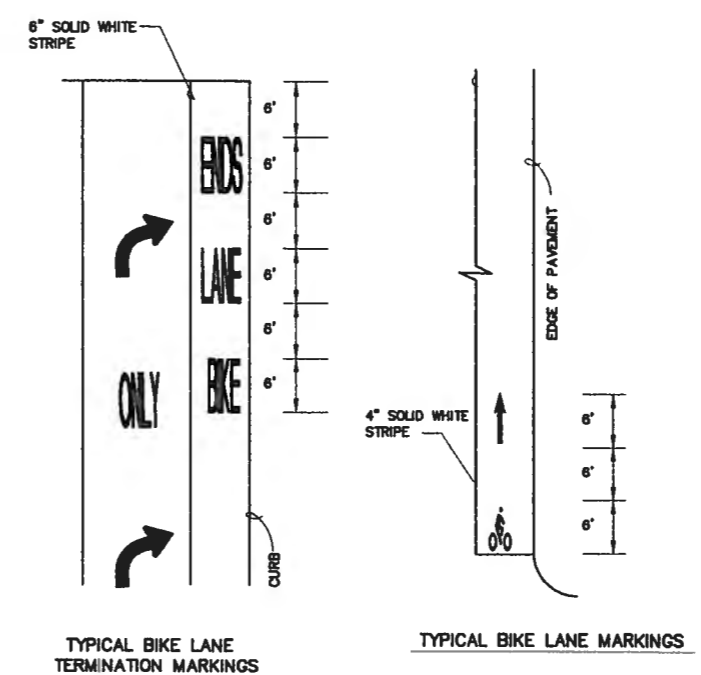
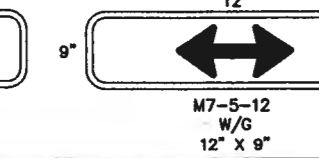
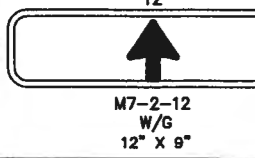
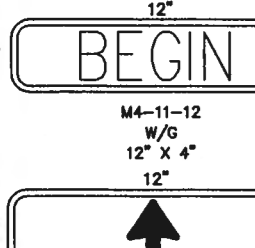
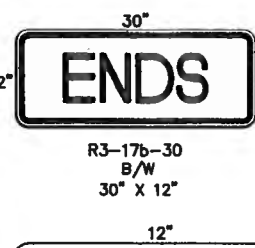
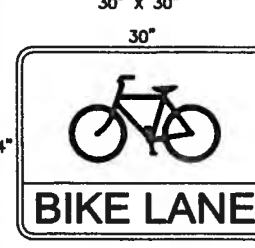
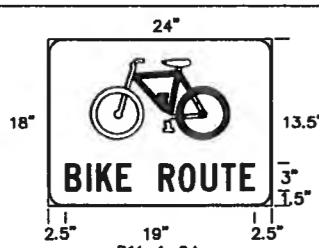
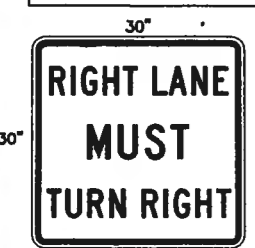
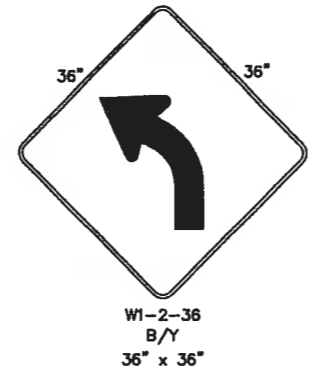
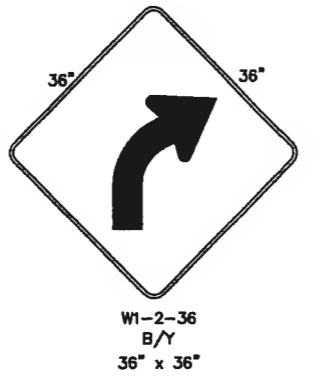
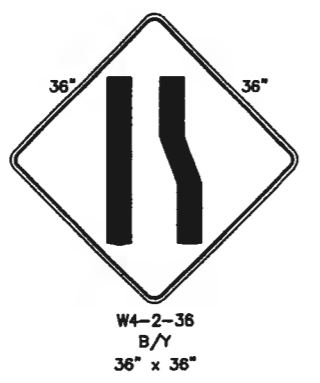
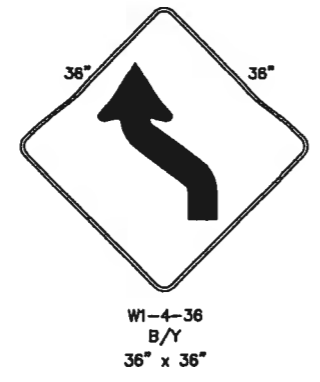

  
 D3-3c-42 ← SIGN CODE
   
 W/G ← SIGN COLOR
   
 42" X 12" ← OVERALL SIGN DIMENSION


MUTCD SIGN CODE
   
 MESSAGE VARIATION
   
 HORIZONTAL DIMENSION

D3-3c-42

**COLOR DESIGNATION**  
 (LEGEND/BACKGROUND)


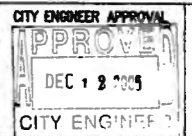
W - WHITE    B - BLACK    R - RED  
 Y - YELLOW    BL - BLUE    G - GREEN  
 O - ORANGE    BR - BROWN    S - SILVER

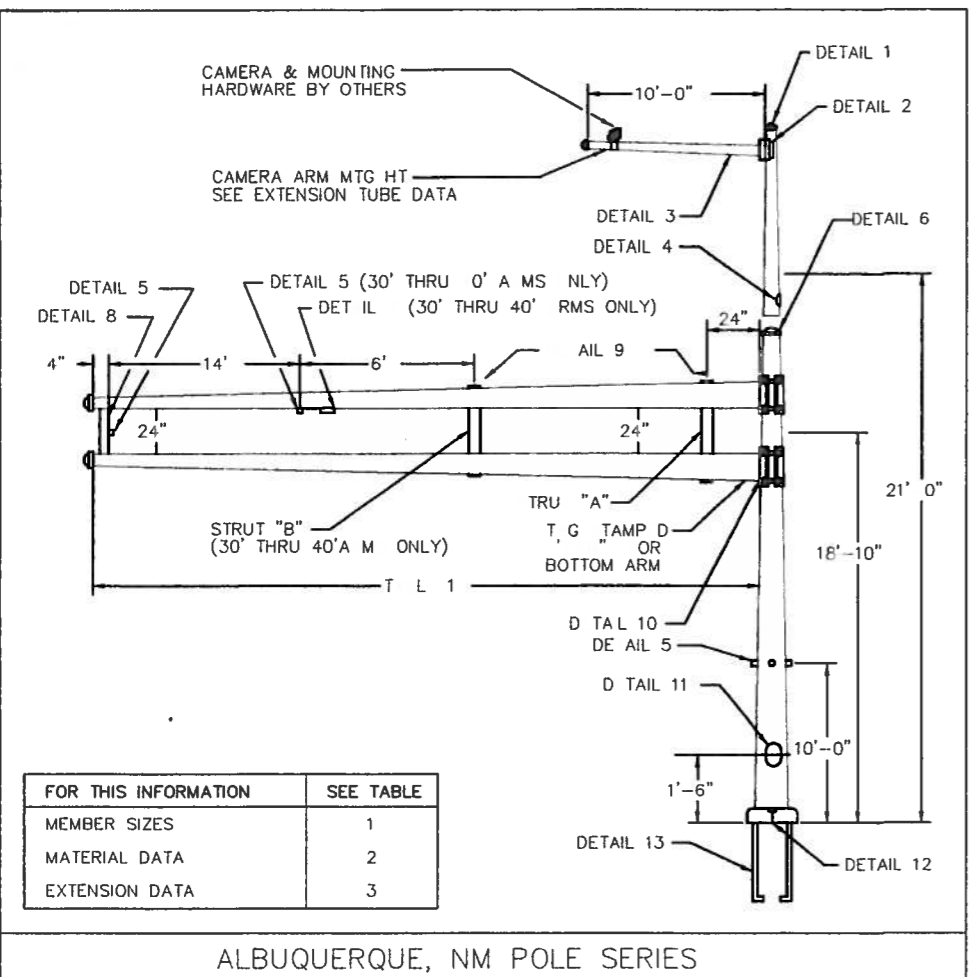


AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	ACCS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	DATE	NO.	BY		DESIGNED BY DRAWN BY CHECKED BY
INSPECTOR'S STAND BY	DATE	Near Intersection of Ridgeway Dr. & Calle Noriega	DATE	NO.	BY		
FIELD ENGINEER	DATE	Geographic Position (NAD 27), in feet	DATE	NO.	BY	REMARKS	DESIGN
VERIFIED BY	DATE	N.M. State Plane Coordinates (Central Zone)	DATE	NO.	BY	DESIGNED BY	DATE
CHECKED BY	DATE	X=366,041.88, Y=1,518,125.33	DATE	NO.	BY	DRAWN BY	DATE
MICRO-FILM INFORMATION	DATE	Elevation=5272.34 NGVD29, in feet	DATE	NO.	BY	CHECKED BY	DATE

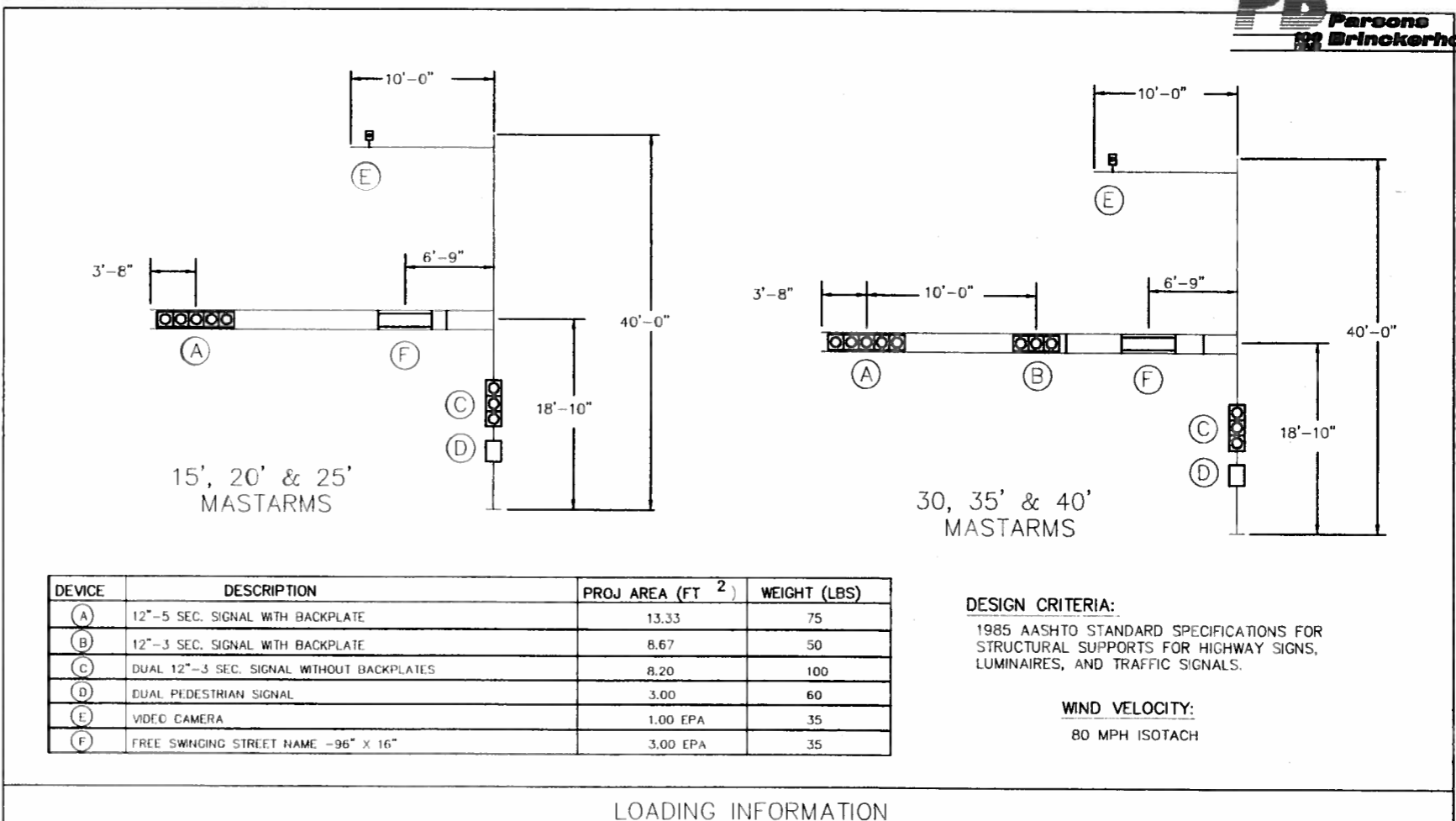
CITY OF ALBUQUERQUE  
 DEPARTMENT OF MUNICIPAL DEVELOPMENT  
 TRANSPORTATION DIVISION

**PASEO DEL NORTE EXTENSION  
 SIGNING AND STRIPING DETAILS**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
			
City Project No. COA 704902	Zone Map No. C - 11	Sheet 66	Of 116



ALBUQUERQUE, NM POLE SERIES



LOADING INFORMATION

TABLE 1: POLE AND MASTARM SCHEDULE L

POLE SERIES	POLE TYPE	SIGNAL ARM SPAN (FT)	CAMERA MOUNTING HEIGHT (0=NO CAMERA)	POLE DATA				BASE PLATE DATA			ANCHOR BOLT DATA				MASTARM DATA				ARM ATTACHMENT DATA					
				BASE DIA	TOP DIA	LENGTH	GA	CIRCLE "C"	THK "G"	BC RANGE		BOLT CIRCLE	DIAMETER "K"	LENGTH "J"	HOOK "H"	FIXED END DIA	FREE END DIA	GA	LENGTH (FT)	"A"	"B"	"C"	"D"	"E"
										BC1	BC2													
ALB	2	15	0, 30, 35, 40	10.00"	7.06"	21'-0"	7	23.00"	1.50"	16 00"	19 00"	16 00"	1.50"	54"	6"	5.80"	3.70"	11	15	7.25"	9.44"	10.81"	10.38"	1.00"-BUNC X 8.00"
ALB	2	20	0, 30, 35, 40	10.00"	7.06"	21'-0"	7	23.00"	1.50"	16 00"	19 "	6 "	1.50"	54"	6"	6.50"	3.70"	11	20	7.25"	9.44"	10.81"	10.38"	1.00"-BUNC X 8.00"
LB	2	5	0, 30, 35, 40	10.00"	7.06"	21'-0"	7	23.00"	1.50"	16 00"	19 "	6 "	1.50"	54"	6"	7.00"	3.50"	11	25	7.25"	9.44"	10.81"	10.38"	1.00"-BUNC X 8.00"
ALB	2	3	0, 30, 35, 40	12.00"	9.06"	21'-0"	5	23.00"	1.50"	16 00"	19 00"	16 "	1.50"	54"	6"	7.72"	3.52"	7	30	9.25"	11.44"	13.81"	12.38"	1.00"-BUNC X 9.00"
ALB	2	35	0, 30, 35, 40	12.00"	9.06"	21'-0"	5	23.00"	1.50"	16 00"	19 "	16 "	1.50"	54"	6"	8.30"	3.40"	7	35	9.25"	11.44"	13.81"	12.38"	1.00"-BUNC X 9.00"
LB	2	40	0, 30, 35, 40	12.00"	9.06"	21'-0"	5	2.00"	1.50"	16 00"	19 0 "	6 "	1.50"	54"	6"	9.00"	3.40"	7	40	9.25"	11.44"	13.81"	12.38"	1.00"-BUNC X 9.00"

TABLE 2: MATERIAL DATA

COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)	COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
POLE TUBE	A595 GR A	55	SIGNAL ARM CLAMP	A 6	36
BASE PLATE	A36	36	SIGNAL ARM CONN BOLTS	A325*	
MAST ARM TUB	A595 GR A	55	CAMERA ARM PLATES	6	36
CAME ARM TUB	A595 GR A	55	GALVANIZING	A123 & A153	
POL EXTENSION	A595 GR A	55			

ANCHOR BOLTS AASHTO M314 GR. 55  
\* LUBRICATE IN FIELD IF NECESSARY IN LI U OF REQUIR M N IN

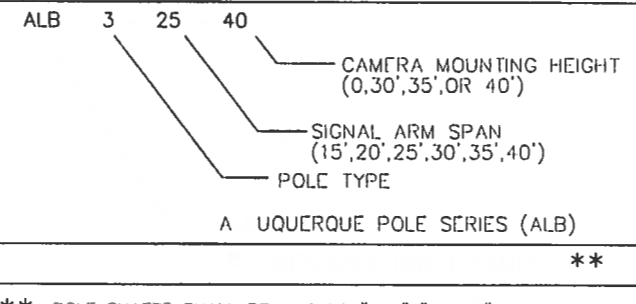


TABLE 3: EXTENSION TUBE DATA

MASTARM LENGTH (FT)	CAMERA MTG HT (FT)	EXTENSION TUBE			
		BASE DIA	TOP DIA	LENGTH (FT)	GAUGE
15-20	30	7.00	5.74	9.0	11
	35	7.00	5.04	14.0	11
	40	7.00	4.34	19.0	11
30-40	30	9.00	7.74	9.0	11
	35	9.00	7.04	14.0	11
	40	9.00	6.34	19.0	11

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
MASTARM DETAILS-TYPE III STANDARD

DESIGN REVIEW COMMITTEE APPROVED DEC 1 2 2005  
CITY ENGINEER APPROVED DEC 1 2 2005

City Project No. COA 704902  
Zone Map No. C - 11  
Sheet 67 Of 116

AS BUILT INFORMATION

CONTRACTOR: ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"

WORK ORDER NO.: Near intersection of Ridgeway Dr. & Calle Norterna

INSPECTOR'S ACCEPTANCE BY: [Signature]

DATE: [ ]

DESIGNED BY: [Signature]

DATE: [ ]

DRAWN BY: [Signature]

DATE: [ ]

CHECKED BY: [Signature]

DATE: [ ]

RECORDED BY: [Signature]

DATE: [ ]

NO. DATE

FIELD NOTES

NO. DATE

ENGINEER'S SEAL

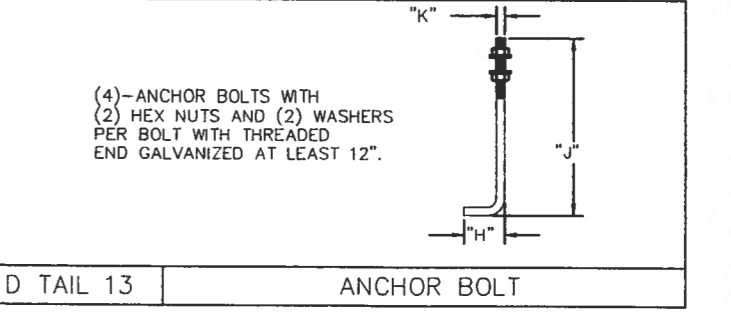
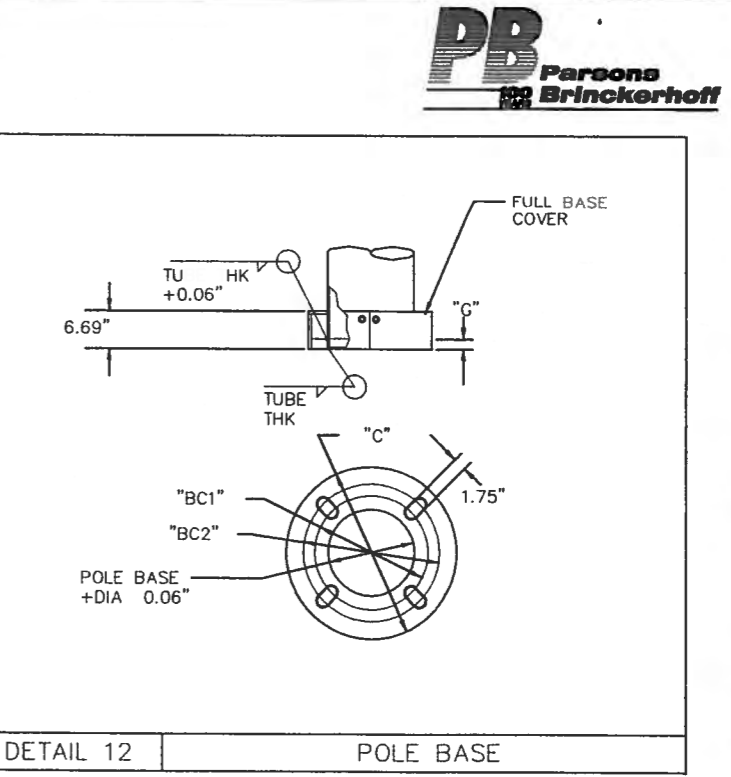
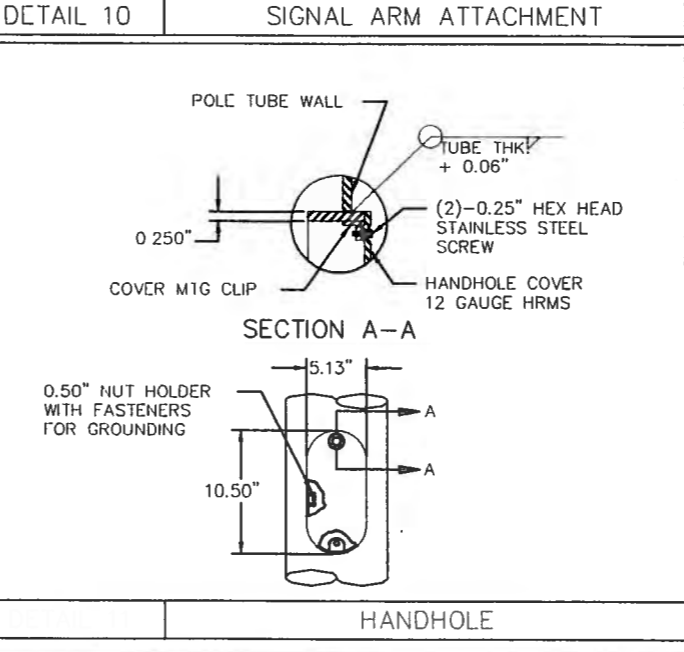
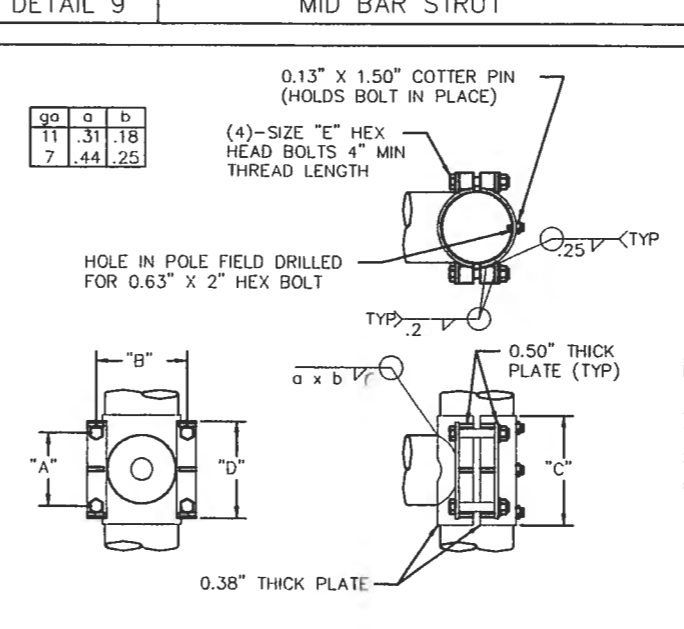
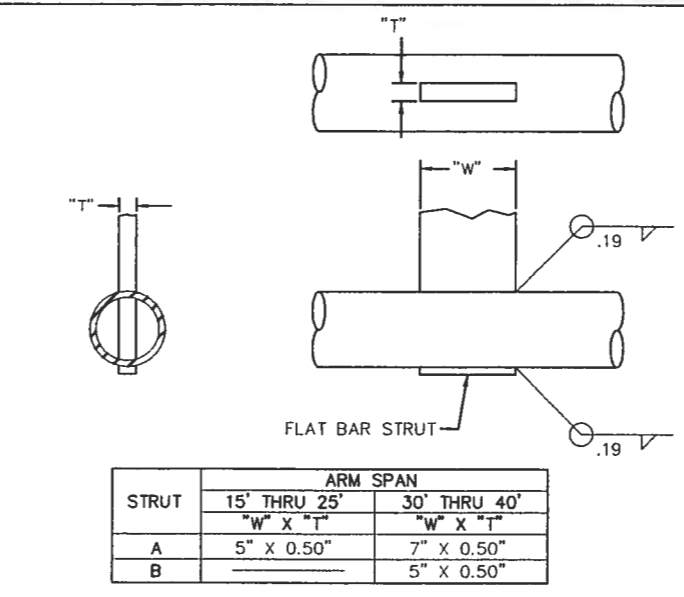
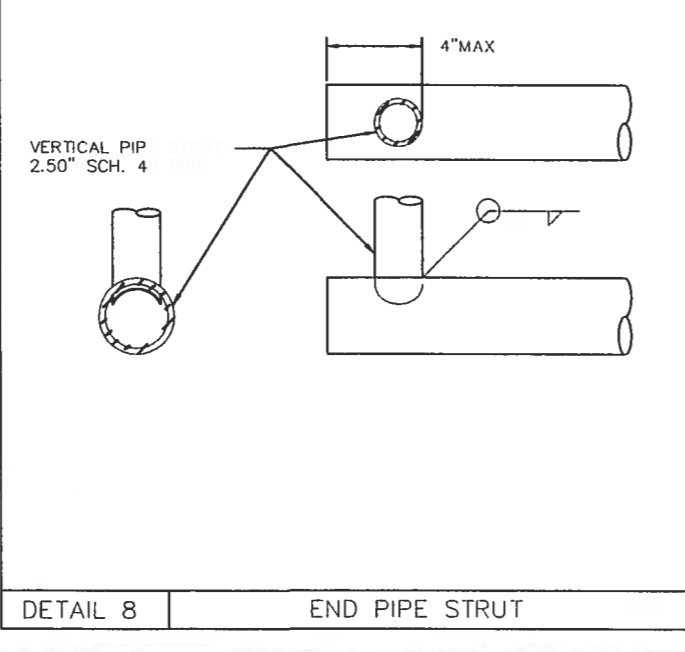
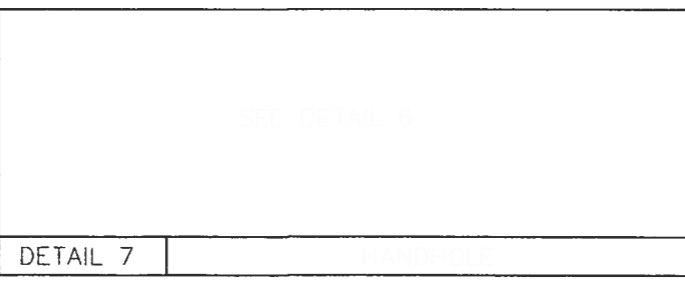
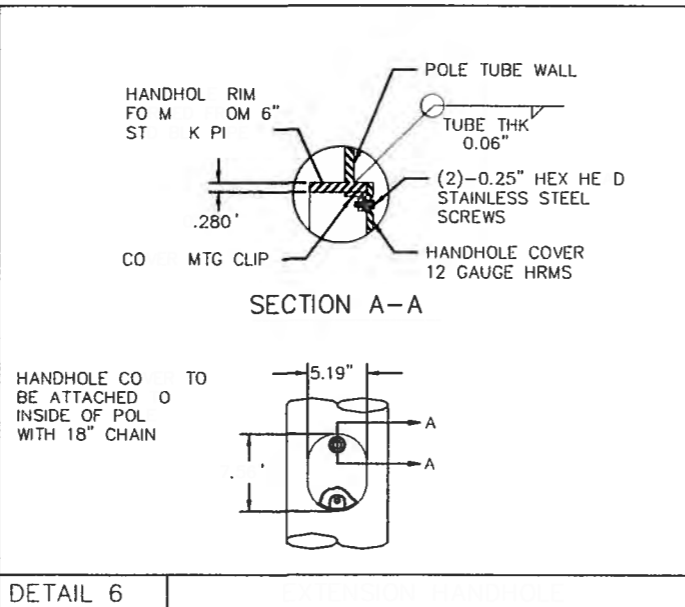
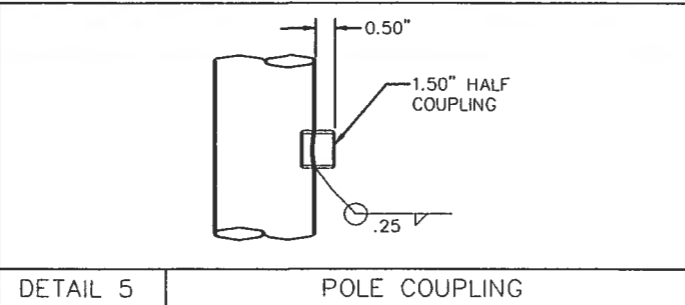
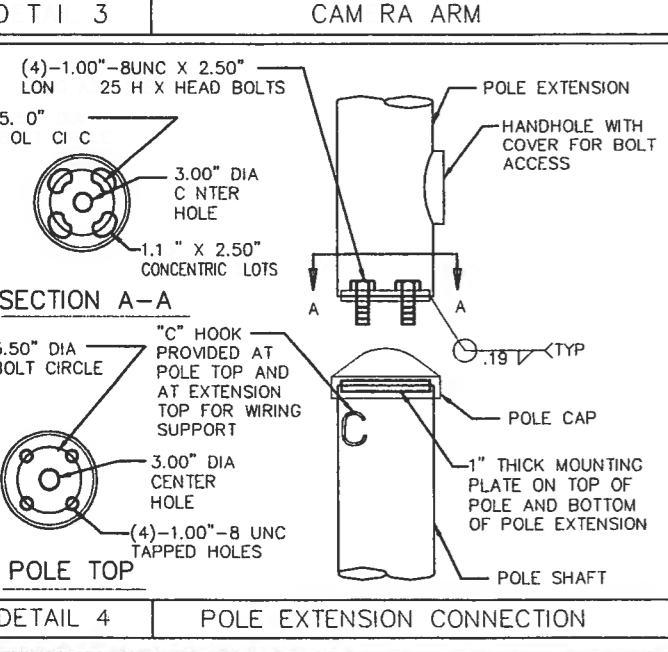
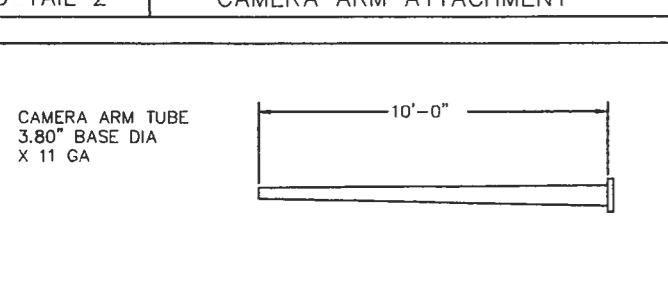
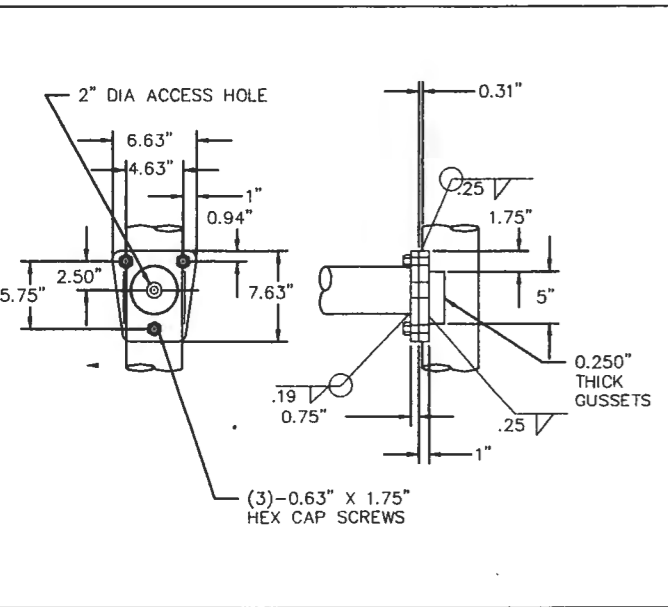
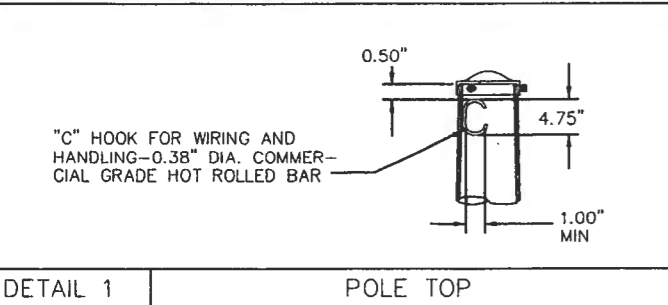
DAVID G. BRAUER  
REGISTERED PROFESSIONAL ENGINEER  
NO. 11-16-05

REMARKS

DESIGN DATE

DRAWN BY DATE

CHECKED BY DATE



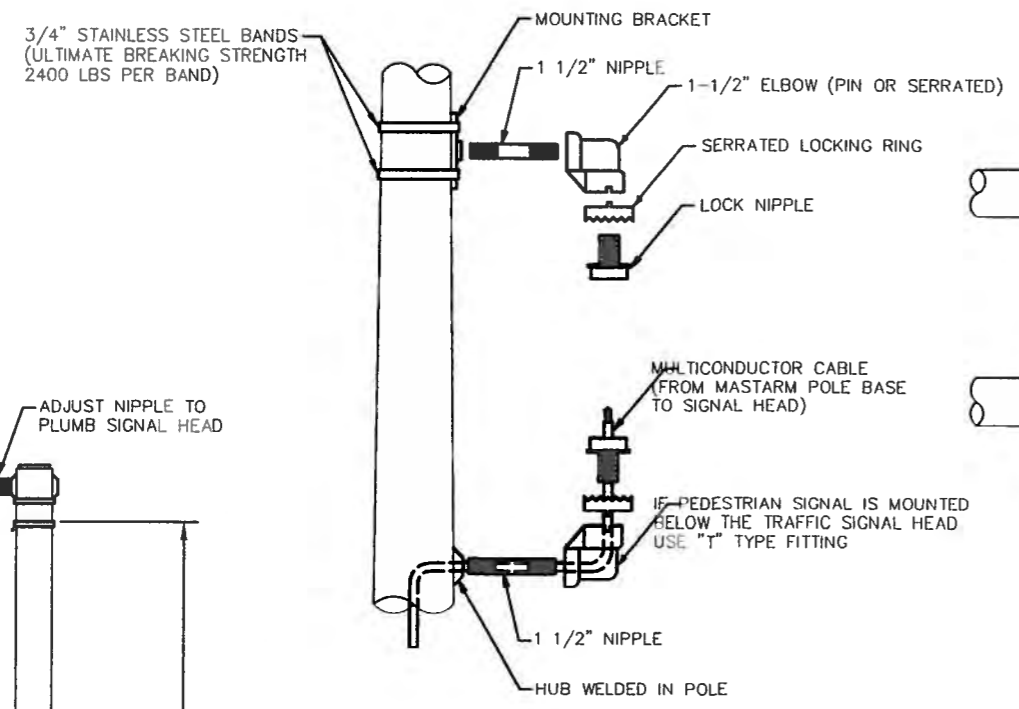
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CONTRACTOR	DATE	ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	Near Intersection of Ridgeway Dr. & Calle Norte	DATE	BY		BY: _____ DATE: _____ CHECKED BY: _____ DATE: _____
WORK STARTED BY	DATE	Geographic Position (NAD 27), in feet	N.M. State Plane Coordinates (Central Zone)	NO.	REMARKS		
ACCEPTANCE BY	DATE	X=306,041.88, Y=1,519,125.33	Elevation=6272.34 NGVD28, in feet	NO.	DESIGN	DESIGNED BY	DATE
FIELD CHECKER BY	DATE			NO.	DRAWN BY	DRAWN BY	DATE
DRAWN BY	DATE			NO.	CHECKED BY	CHECKED BY	DATE
RECORDED BY	DATE			NO.			
				NO.			

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

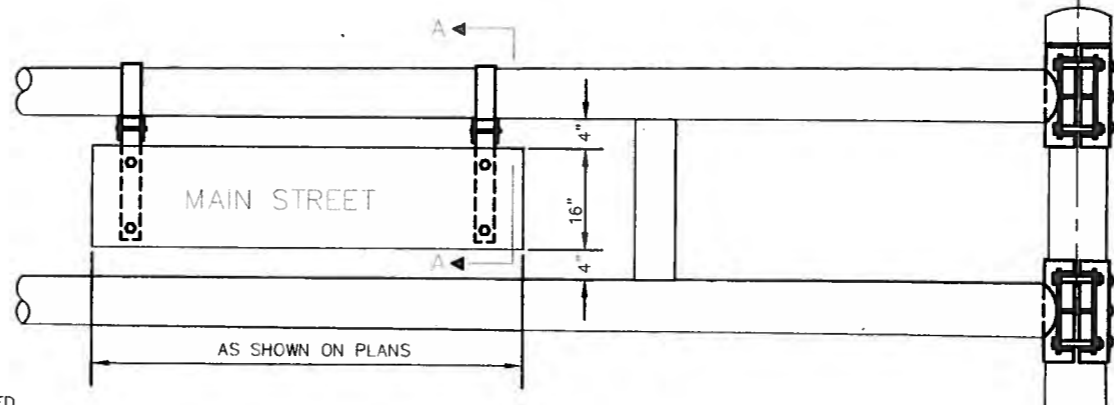
PASEO DEL NORTE EXTENSION  
**TYPE III STANDARD MISCELLANEOUS DETAILS**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MS. 7/24/7/14	MS. 7/24/7/14
APPROVE DEC 1 2 2005	APPROVE DEC 1 2 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

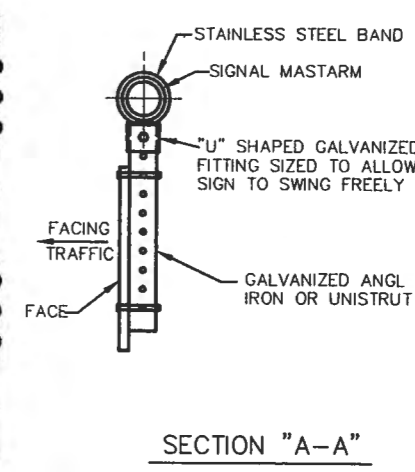
City Project No. COA 704902      Zone Map No. C - 11      Sheet 68      Of 116



SIDE VIEW  
MOUNTING DETAIL

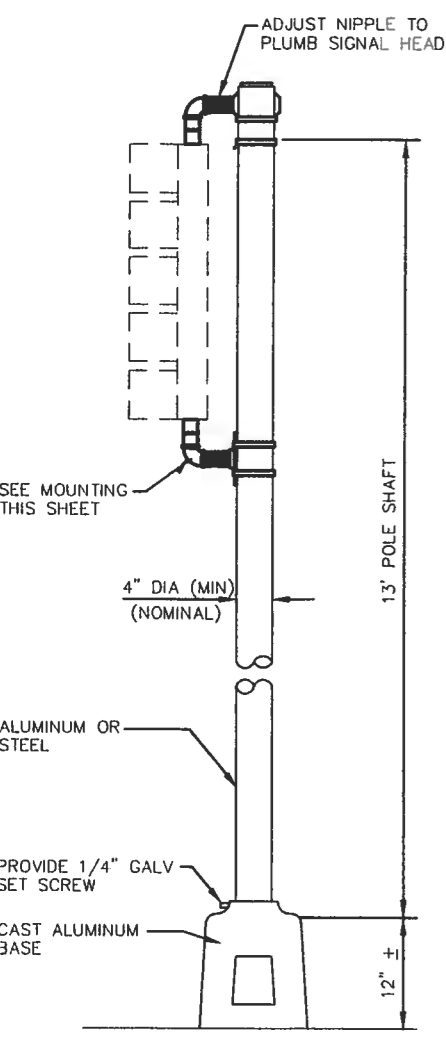
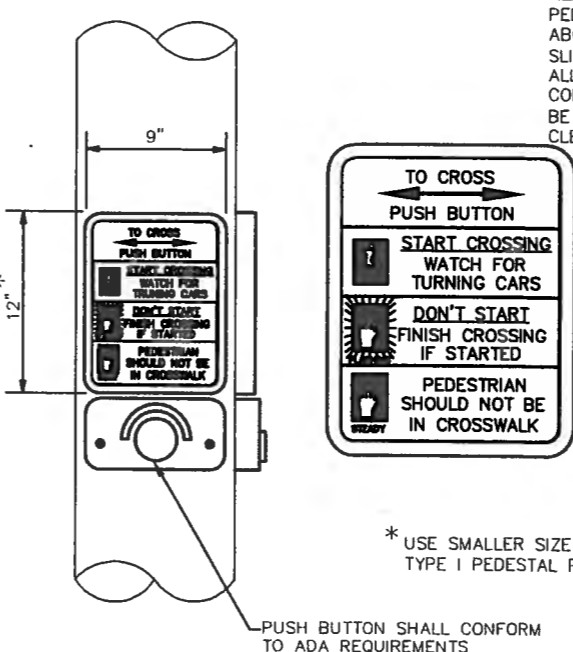


- NOTES:
1. STREET NAME SIGNS REQUIRED AS SHOWN ON SIGN PLAN SHEETS.
  2. SIGN SHALL BE 16" WIDE WITH 8" SERIES "C" LETTERS UP TO 12 SQUARE FEET TOTAL AREA AND SHALL HAVE HIGH INTENSITY REFLECTIVE LEGEND, BORDER AND BACKGROUND COLORS: WHITE ON GREEN, SIGN PANELS SHALL BE SINGLE SHEET 6061-T6 ALUMINUM .120 MINIMUM THICKNESS.



STREET NAME SIGN DETAILS

NOTE:  
PEDESTRIAN ACTUATED CROSSING SHALL BE A MAXIMUM OF 42" ABOVE THE FINISHED PUBLIC SIDEWALK. A STABLE, FIRM, AND SLIP-RESISTANT AREA - 30"x48" - SHALL BE PROVIDED TO ALLOW FOR A FORWARD OR A PARALLEL APPROACH TO THE CONTROLS. WHERE A PARALLEL IS PROVIDED, CONTROLS SHALL BE WITHIN 10" HORIZONTALLY OF AND CENTERED ON THE CLEAR GROUND SPACE.



NOTE:  
14" MINIMUM FROM BOTTOM OF BASE (ASSEMBLED LENGTH)

3/4" STAINLESS STEEL BANDS (ULTIMATE BREAKING STRENGTH 2400 LBS PER BAND)

AS BUILT INFORMATION	
CONTRACTOR	ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"
WORK STARTED BY	Near Intersection of Ridgeway Dr. & Calle Morfano
DATE	
DESIGNED BY	N.M. Site Plans Coordinator (Central Zone)
DATE	X=366,041.88, Y=1,519,125.33
FIELD CHECKED BY	Elevation=5272.34 NOV029, in feet
DATE	
RECORDED BY	
DATE	
NO.	

SURVEY INFORMATION	
FIELD NOTES	
BY	
DATE	
NO.	

ENGINEER'S SEAL	
BY	DAVID G. BRAUER
DATE	12-16-05
DESIGNED BY	
DRAWN BY	
CHECKED BY	
DATE	
DATE	
DATE	

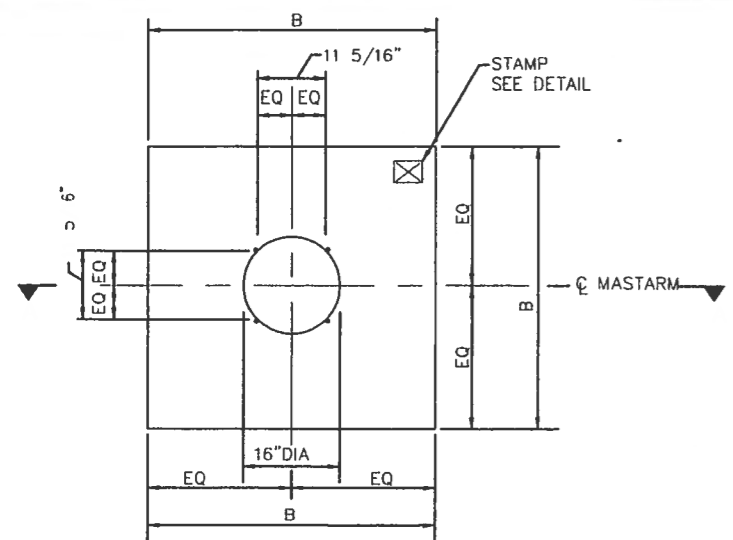
  

MISCELLANEOUS DETAILS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MS 7/8Y/YR	MS 7/8Y/YR
APPROVE DEC 18 2005 DESIGN REVIEW COMMITTEE	APPROVE DEC 18 2005 CITY ENGINEER		
City Project No. COA 704902	Zone Map No. C - 11	Sheet 69	Of 116

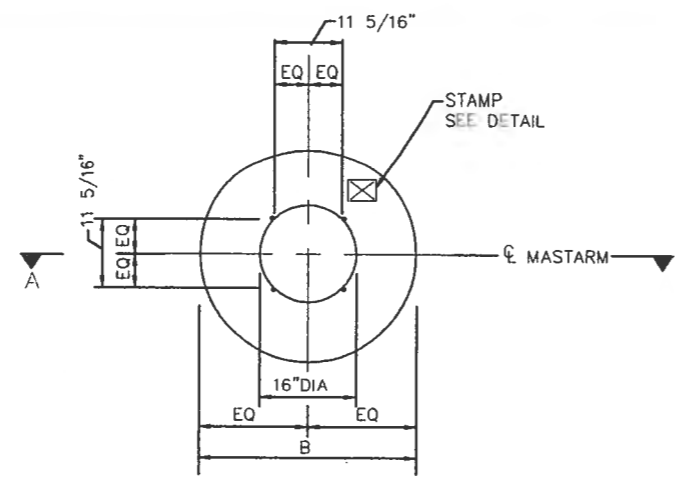


### TRAFFIC SIGNAL MASTARM FOUNDATION

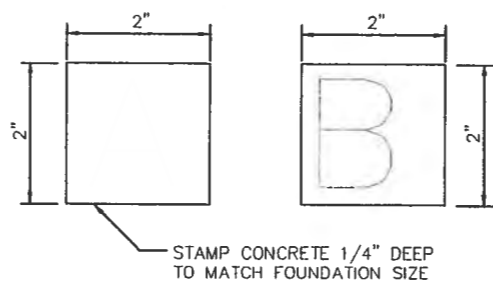
- REFER TO THE PLANS FOR LOCATIONS OF TRAFFIC SIGNAL MASTARM FOUNDATIONS.
- FINISHED GRADE FOR THE FOUNDATIONS SHALL BE ESTABLISHED IN THE FIELD BY THE PROJECT MANAGER.
- THE FOUNDATIONS SHOWN HERE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT REVISION.
- CONCRETE SHALL BE 3500 PSI FOR EXTERIOR STRUCTURES. REFER TO TABLE 101.C OF THE SPECIFICATIONS.
- REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60.
- THE TOP 6 INCHES OF THE FOUNDATION PEDESTAL SHALL BE FORMED TO THE DIMENSIONS SHOWN ON THIS SHEET TO FORM NEAT LINES. CONCRETE BELOW 6 INCHES MAY BE CAST AGAINST THE EARTH.
- THE CONCRETE SHALL GAIN 80% OF THE DESIGN STRENGTH PRIOR TO INSTALLING THE TRAFFIC SIGNAL MASTARM.
- ALL FOUNDATIONS SHALL INCLUDE COPPERWELD GROUND RODS. ALL GROUND RODS SHALL BE 3/4" DIA X 10'-0" AND WILL BE CONSIDERED INCIDENTAL TO THE FOUNDATIONS BID ITEMS.
- ALL FOUNDATIONS SHALL BE STAMPED EITHER "A" OR "B" TO SHOW TYPE CONSTRUCTED (SEE STAMP DETAIL).



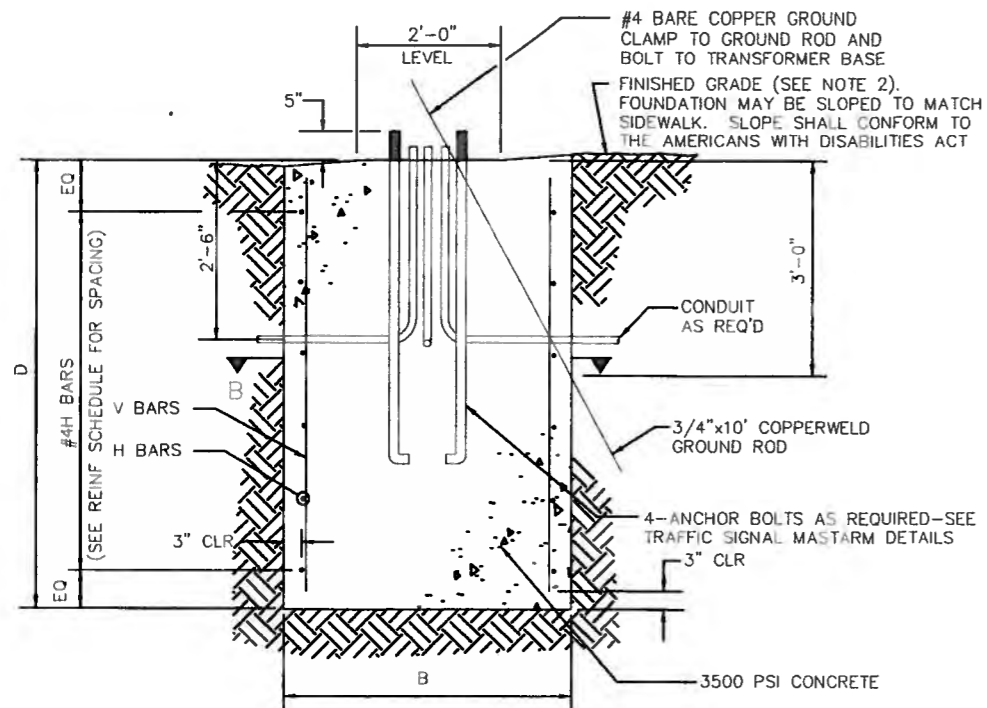
PLAN VIEW (SQUARE)  
NO SCALE



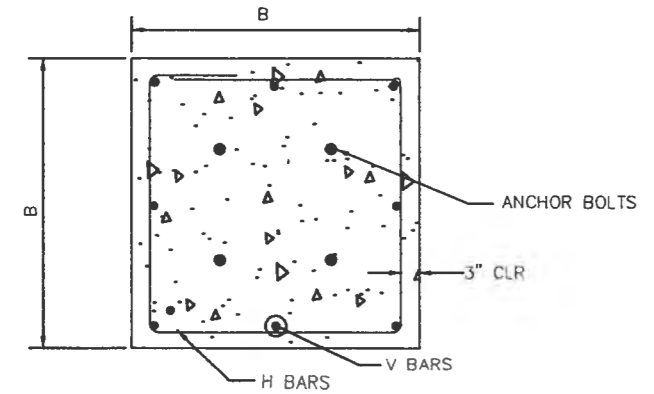
PLAN VIEW (ROUND)  
NO SCALE



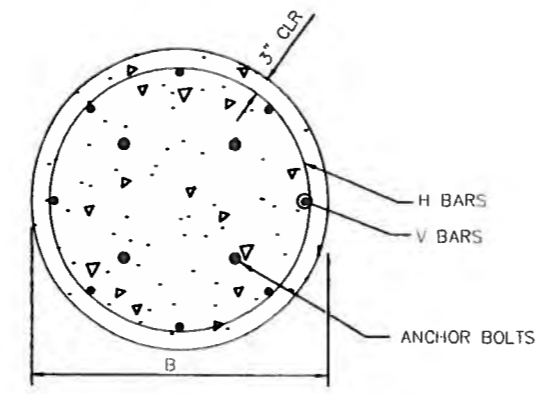
STAMP DETAIL  
NO SCALE



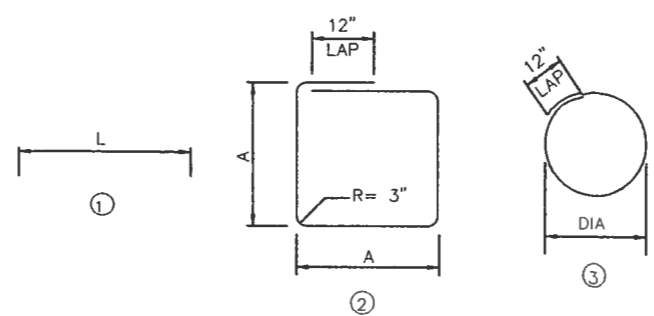
SECTION A-A (ROUND OR SQUARE)  
NO SCALE



SECTION B-B (SQUARE)  
NO SCALE



SECTION B-B (ROUND)  
NO SCALE



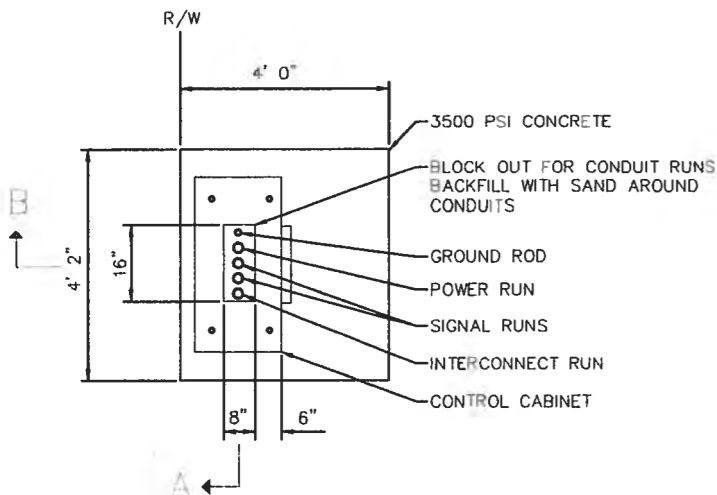
BAR BENDING DIAGRAM  
NO SCALE

FOUNDATION DIMENSIONS AND QUANTITIES								
FOUNDATION TYPE	SIGNAL ARM SPAN (FT)	DIMENSION		REINFORCING		REBAR POUNDS	3500 PSI CONCRETE CUBIC YARDS	NOTES
		B (WIDTH)	D (DEPTH)	V BARS MARK	H BARS MARK			
TYPE A (SQUARE)	15	3'-6"	5'-0"	#4V2	#3H2	49.1	2.27	
	20	"	"	"	"	"	"	
	25	"	"	"	"	"	"	
TYPE B (SQUARE)	30	4'-0"	6'-3"	#5V1	#3H1	82.6	3.70	
	35	"	"	"	"	"	"	
	40	"	"	"	"	"	"	
TYPE A (ROUND)	15	2'-6"	8'-6"	#6V4	#3H4	98.1	1.55	
	20	"	"	"	"	"	"	
	25	"	"	"	"	"	"	ROUND SHAPE TO BE USED ONLY WHERE SPECIFICALLY NOTED ON PLANS OR WHEN APPROVED BY THE PROJECT MANAGER.
TYPE B (ROUND)	30	3'-0"	11'-9"	#7V3	#3H3	179.7	3.08	
	35	"	"	"	"	"	"	
	40	"	"	"	"	"	"	

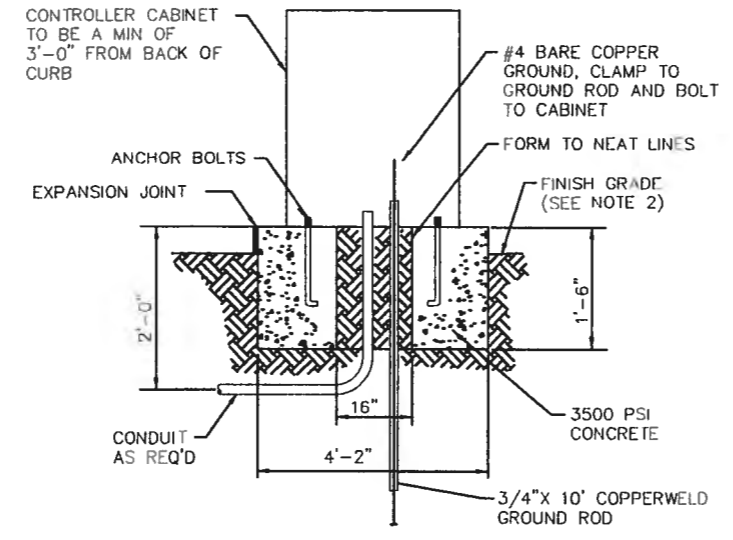
REINFORCING SCHEDULE (GRADE 60 BARS)						
MARK	QUANT	TYPE	SIZE	LENGTH	COMMENTS	
#5V1	8	1	5	5'-9"		
#4V2	8	1	4	4'-6"		
#7V3	6	1	7	11'-3"		
#6V4	6	1	6	8'-0"		
#3H1	6	2	3	15'-4"	A = 42", TIES AT 14" OC	
#3H2	5	2	3	13'-4"	A = 36", TIES AT 12" OC	
#3H3	12	3	3	9'-3"	DIA = 30", TIES AT 12" OC	
#3H4	9	3	3	7'-8"	DIA = 24", TIES AT 12" OC	

AS BUILT INFORMATION		CONTRACTOR	DATE
BENCH MARKS		INSPECTOR'S ACCEPTANCE BY	DATE
SURVEY INFORMATION		INSPECTOR'S ACCEPTANCE BY	DATE
FIELD NOTES		NO. DATE	NO. DATE
ENGINEER'S SEAL		DESIGNED BY	DATE
REMARKS		DRAWN BY	DATE
DESIGN		CHECKED BY	DATE
NO. DATE		DESIGNED BY	DATE
REMARKS		DRAWN BY	DATE
DESIGN		CHECKED BY	DATE

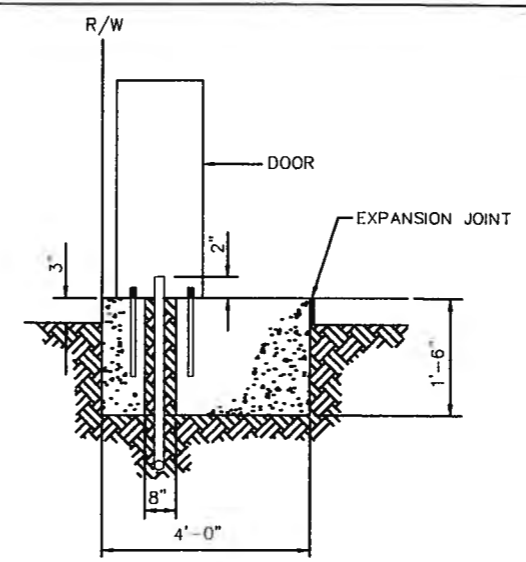
CITY OF ALBUQUERQUE  
 DEPARTMENT OF MUNICIPAL DEVELOPMENT  
 TRANSPORTATION DIVISION  
 PASEO DEL NORTE EXTENSION  
 TRAFFIC SIGNAL FOUND. DETAILS TYPE II & III  
 DESIGN REVIEW COMMITTEE APPROVE DEC 1 2 2005  
 CITY ENGINEER APPROVE DEC 1 2 2005  
 City Project No. COA 704902 Zone Map No. C - 11 Sheet 70 Of 116



PLAN



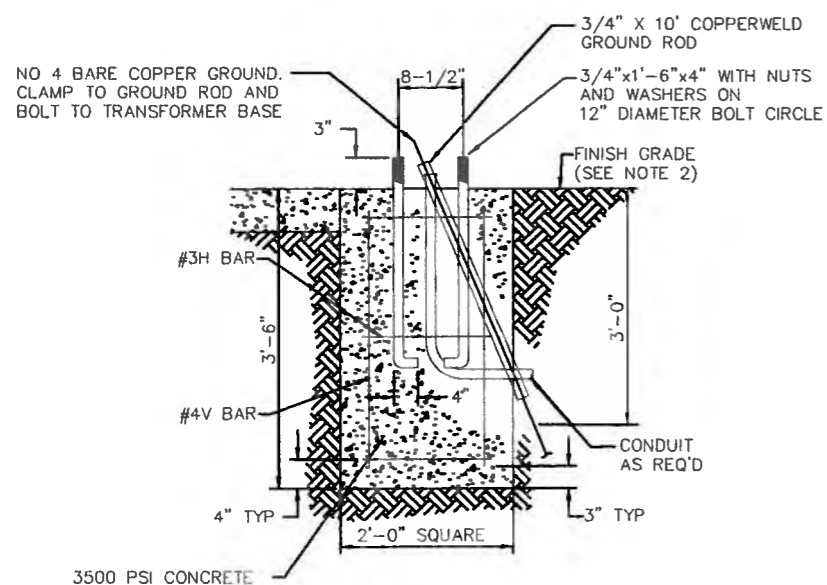
SECTION A



SECTION B

CONTROLLER FOUNDATION DETAIL

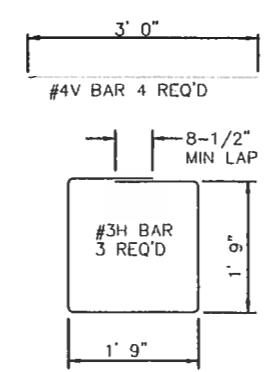
IN THE EVENT THE SUPPLIED CABINET WOULD OVERLAP THE SIDES OF ABOVE FOUNDATION, THE FOUNDATION SHALL BE INCREASED IN SIZE AS DIRECTED BY THE ENGINEER.



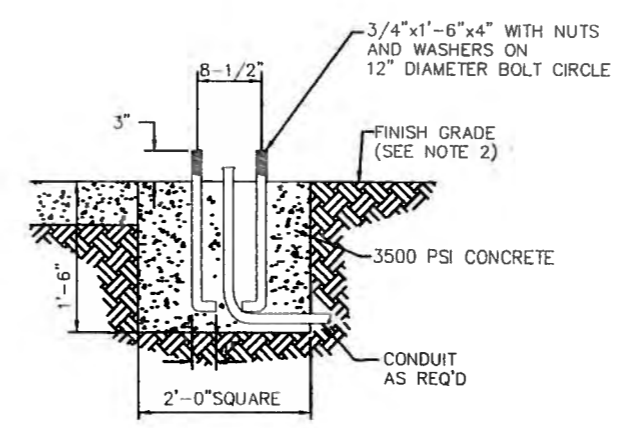
PEDESTAL FOUNDATION DETAIL

ESTIMATED QUANTITIES

FOUNDATION TYPE	3500 PSI CONCRETE CU YD	REINFORCING BARS POUNDS
PEDESTAL FOUNDATION	0.52	17
CONTROLLER FOUNDATION (TYPE M & P)	0.88	--
SPLICE CABINET FOUNDATION	0.13	--



REINFORCING STEEL



SPLICE CABINET FOUNDATION DETAIL

TRAFFIC SIGNAL FOUNDATION NOTES

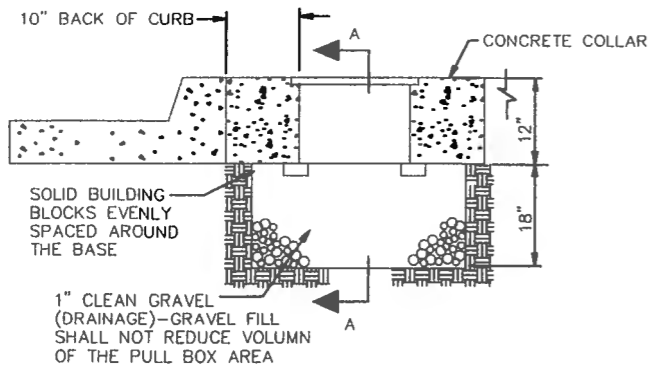
- ALL FOUNDATIONS SHALL INCLUDE COPPERWELD GROUND RODS. ALL GROUND RODS SHALL BE 3/4" OR 10'-0" AND WILL BE CONSIDERED INCIDENTAL TO THE FOUNDATION BID ITEMS.
- FINISHED GRADE FOR ALL FOUNDATIONS TO BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. FOUNDATIONS MAY BE SLOPED TO MATCH SIDEWALKS. SLOPES SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT REQUIREMENTS.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	NEAR INTERSECTION OF RITIGNEY DR. & CALLE NORTENA	NO.	BY		16-05
WORK STARTED BY	DATE	Geographic Position (NAD 27), in feet		NO.	BY		
INSPECTOR'S FIELD VERIFICATION BY	DATE	N.M. State Plane Coordinates (Central Zone)		NO.	BY	REMARKS	DATE
APPLICATOR BY	DATE	X=266,041.88, Y=1,518,125.33		NO.	BY	DESIGN	DATE
CORRECTED BY	DATE	Elevation=5272.34 NGVD29, in feet		NO.	BY	CHECKED BY	DATE
MICRO-FILM INFORMATION	NO.						

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

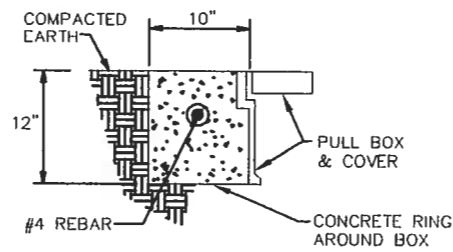
PASEO DEL NORTE EXTENSION  
TRAFFIC SIGNAL CONTROL FOUNDATION DETAILS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	NO./DAY/YR.	NO./DAY/YR.
APPROVE DEC 1 2 2005	APPROVE DEC 1 2 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
City Project No. COA 704902	Zone Map No. C - 11	Sheet 71	Of 116

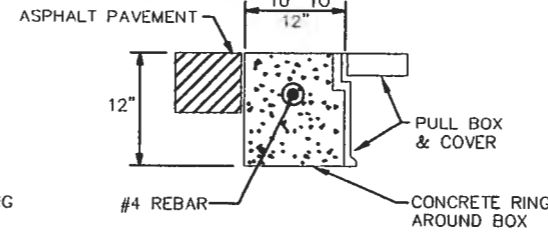


TYPICAL PULLBOX INSTALLATION

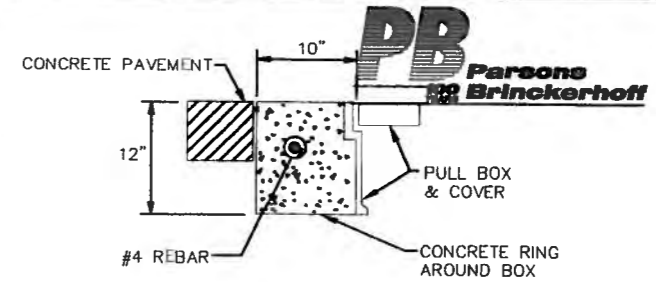
NOTE: SEE "CONCRETE COLLAR DETAIL"



IN COMPACTED EARTH



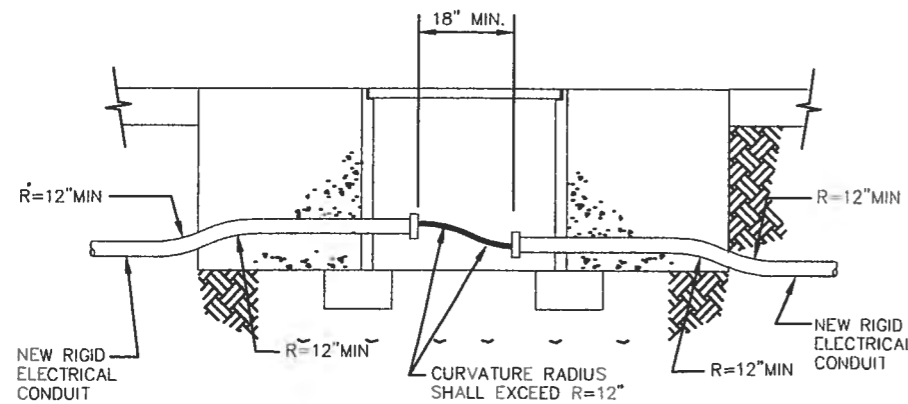
IN ASPHALT PAVEMENTS



IN CONCRETE PAVEMENTS

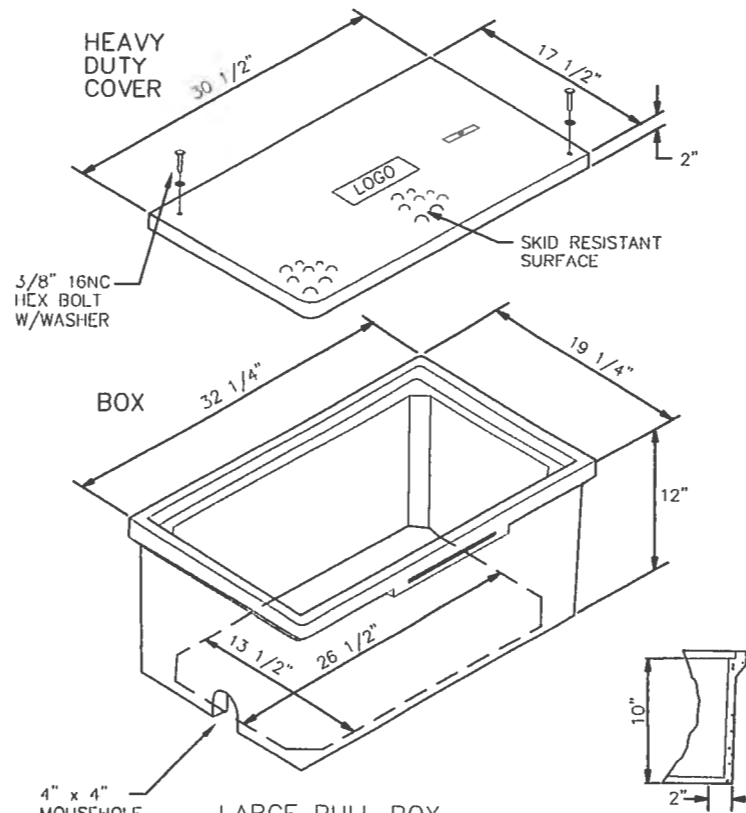
CONCRETE COLLAR DETAILS

NOTE: THE CONCRETE COLLAR FOR THE PULL BOXES WILL BE CONSIDERED INCIDENTAL TO THE PULL BOX BID ITEMS

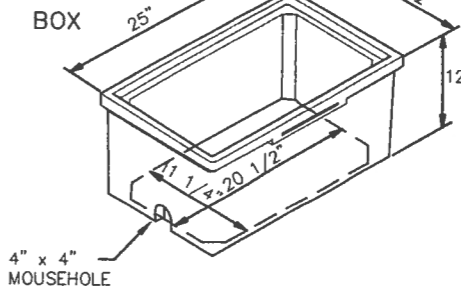
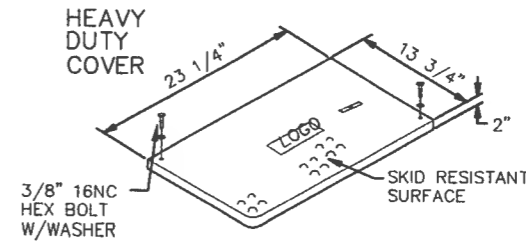


TRAFFIC SIGNAL PULL BOX (TYPICAL)

NEW CONDUIT INSTALLATION



LARGE PULL BOX

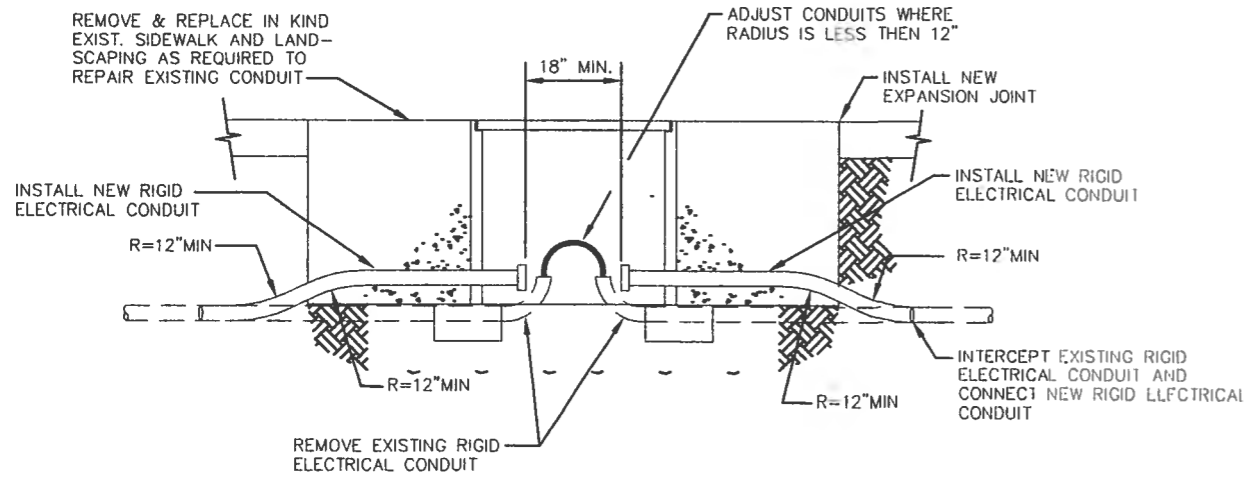


STANDARD PULL BOX

PULL BOX DETAILS

NOTES FOR HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOX AND COVERS

- MATERIAL TO BE AN AGGREGATE CONSISTING OF SAND AND GRAVEL BOUND TOGETHER WITH A POLYMER AND REINFORCED WITH CONTINUOUS WOVEN GLASS STRANDS. THE MATERIAL MUST HAVE THE FOLLOWING MECHANICAL PROPERTIES: COMPRESSIVE STRENGTH - 11,000 PSI, TENSILE STRENGTH - 1,700 PSI, FLEXURAL STRENGTH - 7,500 PSI.
- ALL PULL BOX COVERS SHALL BE HEAVY DUTY REINFORCED POLYMER MORTAR, HAVING A SERVICE LOAD OF 22,568 LBS. OVER 10" SQUARE (225 PSI).
- PULL BOX TYPE AND LOGO SHALL BE APPROVED BY THE PROJECT MANAGER.
- THE DIMENSIONS OF THE PULL BOXES SHOWN ARE NOMINAL DIMENSIONS AND MAY VARY AS TO THE MANUFACTURER'S RECOMMENDATIONS. ALL DIMENSIONS SHALL BE VERIFIED BY THE PROJECT MANAGER.
- ELECTRICAL PULL BOX (STANDARD) SHALL BE A HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOX AND COVER MEASURING 13 3/4" x 23 1/4" x 2".



TRAFFIC SIGNAL PULL BOX (TYPICAL)

RETROFIT INSTALLATION

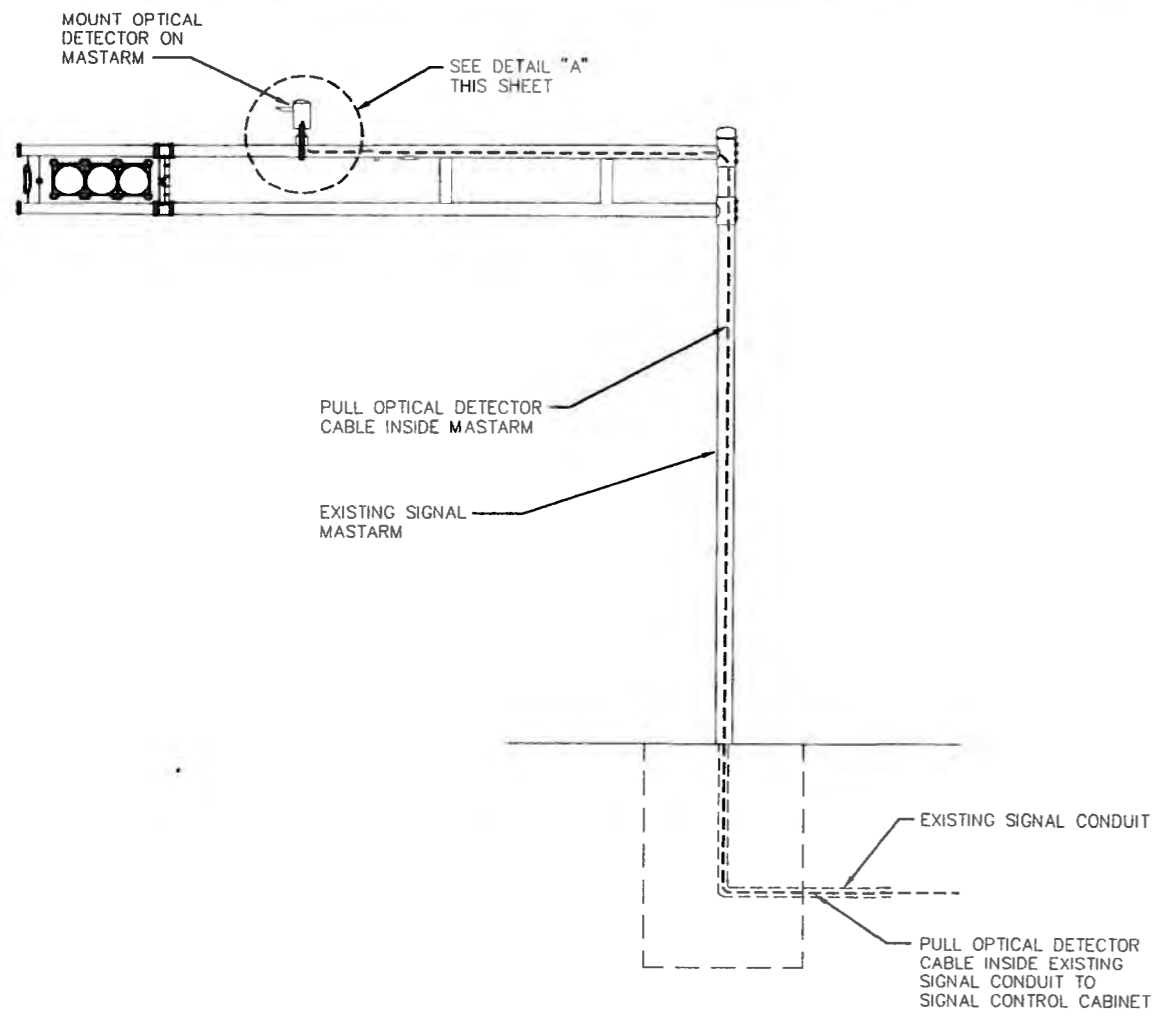
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	ACS 3 1/4" Aluminum Cap stamped "ACS 1-G11"	DATE	NO.	BY		DATE
WORK STARTED BY	DATE	Near Intersection of Ridgeway Dr. & Calle Nortena	DATE	NO.	BY		DATE
APPROVED BY	DATE	Geographic Position (NAD 27), in feet	DATE	NO.	BY	REMARKS	DATE
FIELD DESIGN BY	DATE	N.M. State Plane Coordinates (Central Zone)	DATE	NO.	BY	DESIGN	DATE
APPROVED BY	DATE	X=386,041.88, Y=1,519,125.33	DATE	NO.	BY	CHECKED BY	DATE
APPROVED BY	DATE	Elevation=5272.34 NGVD29, in feet	DATE	NO.	BY	CHECKED BY	DATE
MICRO-FILM INFORMATION							
NO.	DATE						

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

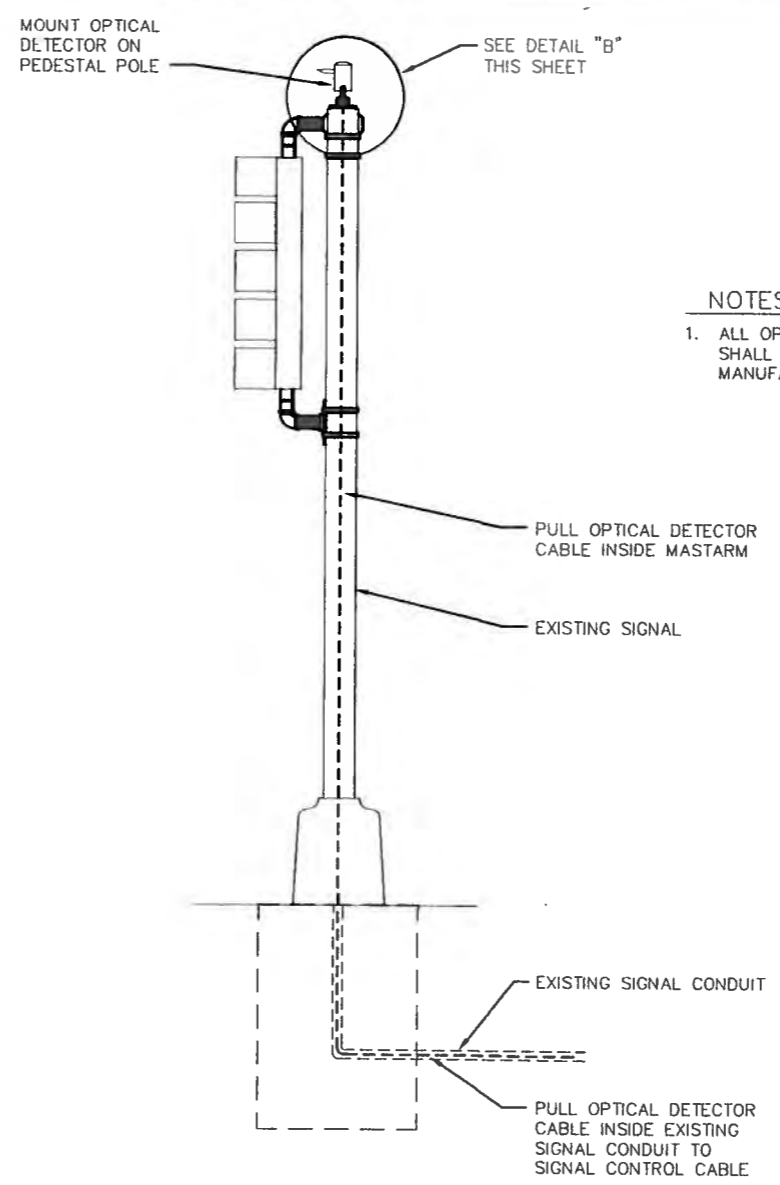
PASEO DEL NORTE EXTENSION  
PULL BOX DETAILS

DESIGN REVIEW COMMITTEE	DATE	NO./DAY/YR.	NO./DAY/YR.
APPROVE	DEC 1 2 2005		
DESIGN REVIEW COMMITTEE			
APPROVE	DEC 1 3 2005		
CITY ENGINEER			

City Project No. COA 704902      Zone Map No. C - 11      Sheet 72 Of 116

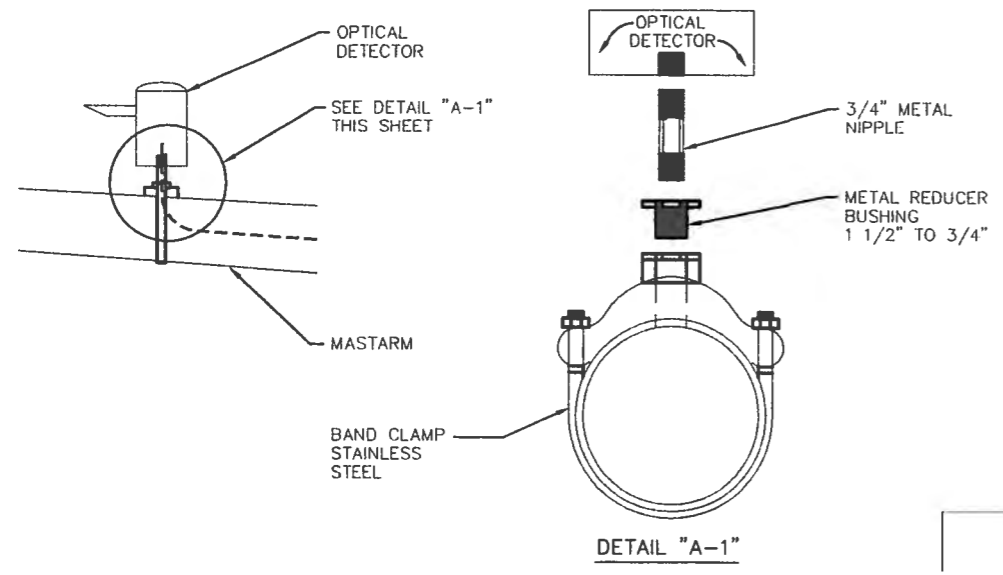


TYPICAL OPTICAL DETECTOR INSTALLATION - MASTARM

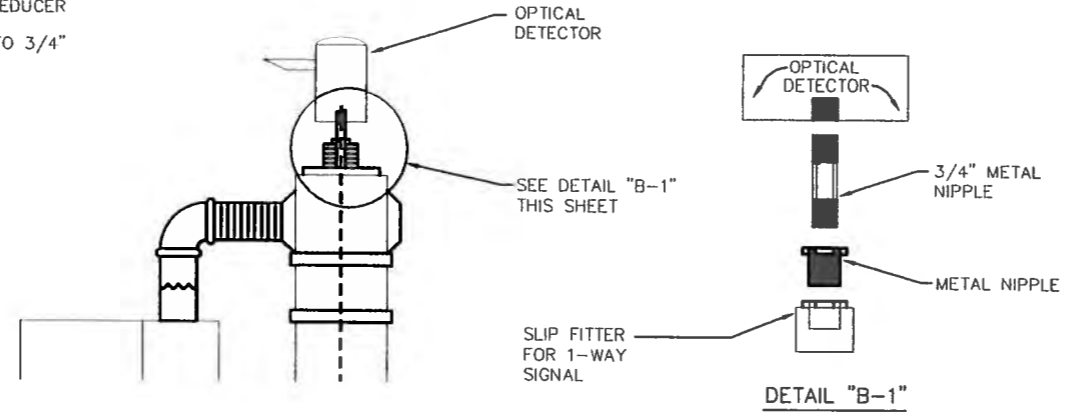


TYPICAL OPTICAL DETECTOR INSTALLATION - PEDESTAL POLE

NOTE: OPTICAL DETECTOR SHALL ONLY BE MOUNTED ON PEDESTAL POLES WHEN THERE IS NO MASTARM.



OPTICAL DETECTOR MOUNTING - DETAIL "A"



OPTICAL DETECTOR MOUNTING - DETAIL "B"

NOTES:  
1. ALL OPTICAL DETECTOR MOUNTING HARDWARE SHALL CONFORM TO OPTICAL DETECTOR MANUFACTURER'S REQUIREMENTS.

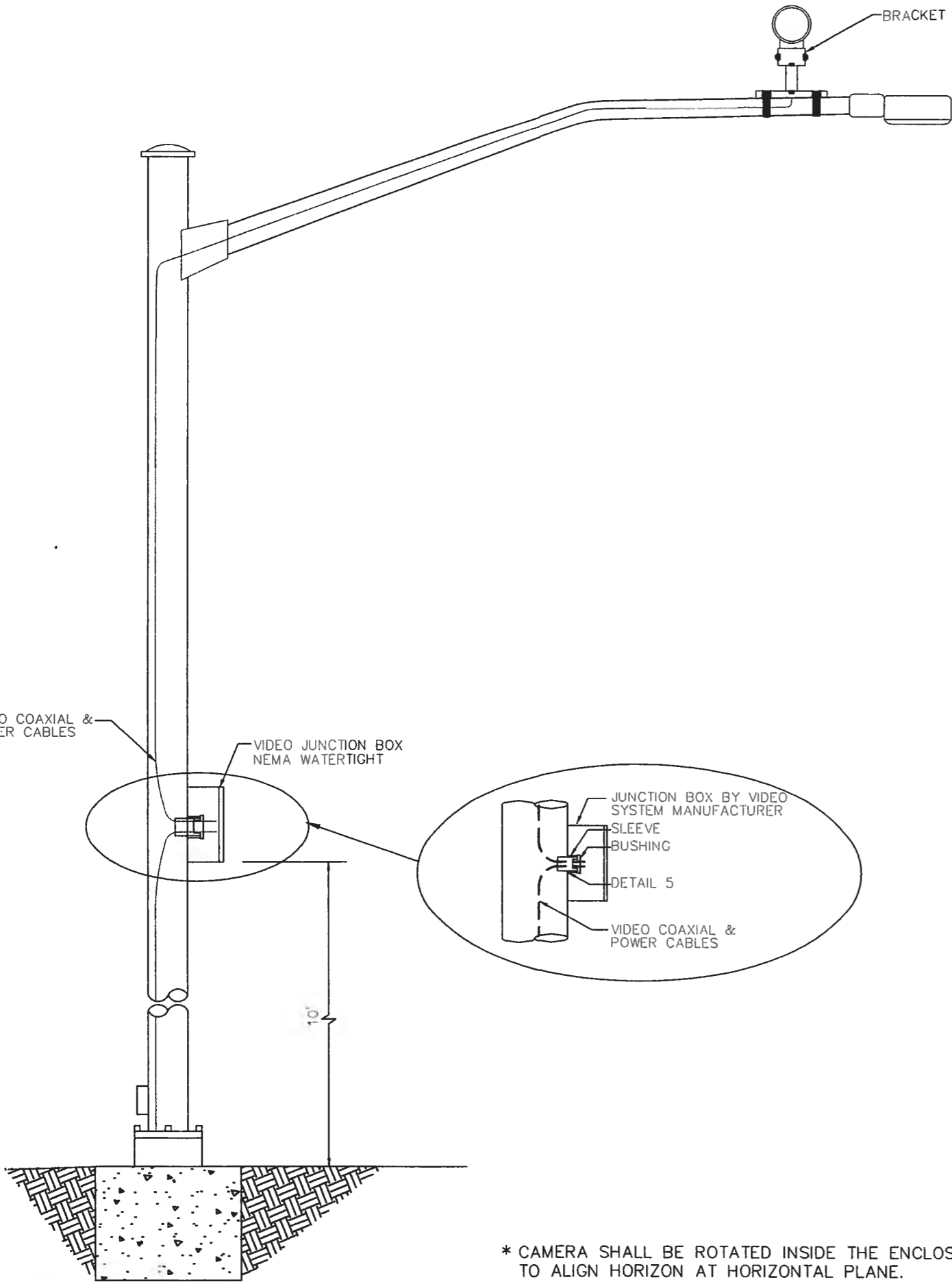
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	DATE	NO.	BY		NO. DATE REMARKS DESIGN DATE DRAWN BY DATE CHECKED BY DATE
WORK STARTED BY	DATE	Near Intersection of Ridgeway Dr. & Calle Norte	DATE				
ACCEPTANCE BY	DATE	Geographic Position (NAD 27), in feet					
FIELD ENGINEER BY	DATE	N.M. State Plane Coordinates (Central Zone)					
DRAWN BY	DATE	X=366,041.86, Y=1,619,125.33					
CHECKED BY	DATE	Elevation=6272.34 NGVD29, in feet					
MICRO-FILM INFORMATION	DATE						
RECORDED BY	DATE						
H.C.							

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

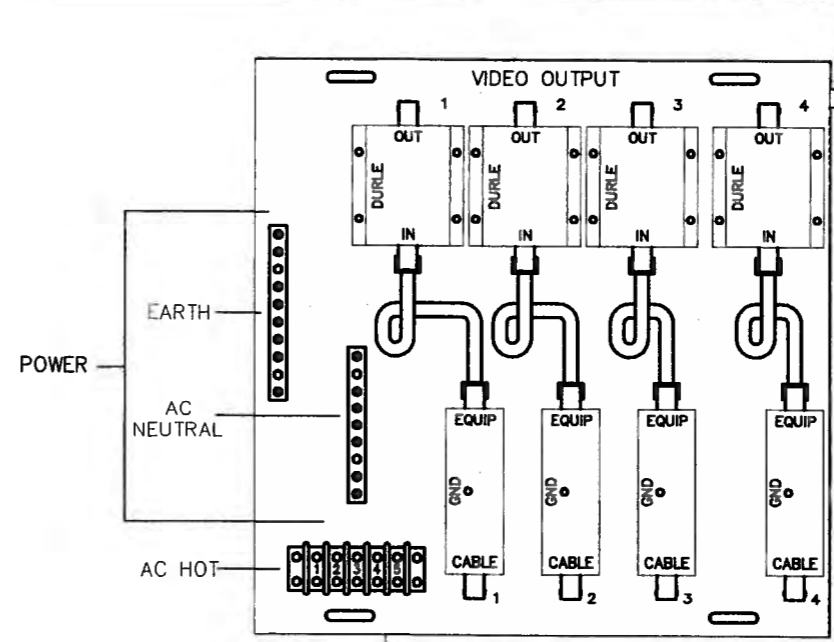
PASEO DEL NORTE EXTENSION  
**OPTICAL DETECTOR INSTALLATION DETAILS**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVE DEC 1 2 2005	APPROVE DEC 1 2 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

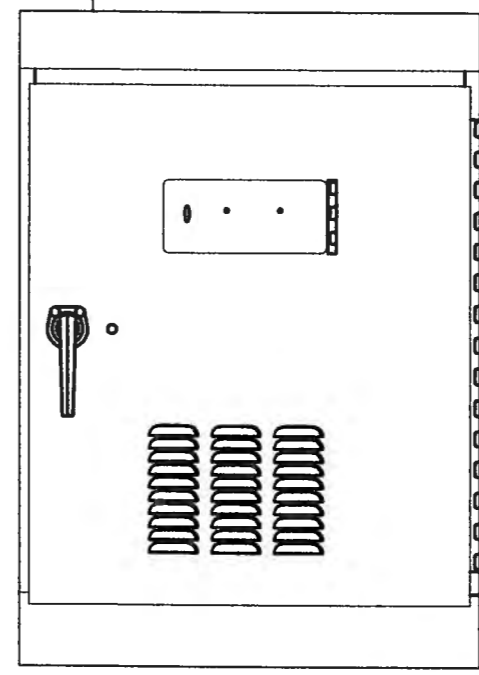
City Project No. COA 704902      Zone Map No. C - 11      Sheet 73 Of 116



\* CAMERA SHALL BE ROTATED INSIDE THE ENCLOSURE AFTER INSTALLATION, TO ALIGN HORIZON AT HORIZONTAL PLANE.



CAMERA INTERFACE PANEL



AS BUILT INFORMATION	
CONTRACTOR	DATE
WORK STAMPED BY	DATE
INSPECTOR'S VERIFICATION BY	DATE
FIELD CORRECTION BY	DATE
RECORDED BY	DATE
MICRO-FILM INFORMATION	
NO.	DATE

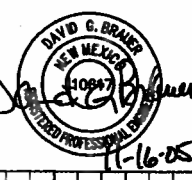
BENCH MARKS	
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	DATE
Near Intersection of Ridgeway Dr. & Calle Mortena	DATE
Geographic Position (NAD 27), in feet	DATE
N.M. State Plane Coordinates (Central Zone)	DATE
X=386,041.86, Y=1,519,125.33	DATE
Elevation=5272.34 NGVD29, in feet	DATE

SURVEY INFORMATION	
FIELD NOTES	DATE
BY	DATE
NO.	DATE

ENGINEER'S SEAL	
NO. DATE	REMARKS
BY	DESIGN
DATE	DATE
DRAWN BY	DATE
CHECKED BY	DATE



CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
**MACHINE VISION VEHICLE DETECTOR SYSTEMS**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED DEC 1 2 2005	APPROVED DEC 1 3 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 74 Of 116

**TRAFFIC SIGNAL NOTES**

- THIS PROJECT INCLUDES INSTALLATION OF NEW EQUIPMENT, MODIFICATIONS TO THE EXISTING SIGNAL SYSTEM, RELOCATIONS OF EXISTING EQUIPMENT, REMOVALS OF EXISTING EQUIPMENT, AND INSTALLATION OF NEW CONDUIT AND WIRING.
- ALL WORK ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT NATIONAL ELECTRIC CODE, THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS FOR ELECTRICAL WIRING AND APPARATUS, AND THE MOST CURRENT CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS SPECIFICATIONS.
- LOCATIONS OF CONDUITS, FOUNDATIONS, CONTROL CABINETS, POLES, PULL BOXES, MANHOLES, AND SPLICE CABINETS SHOWN ON THE PLANS ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD TO MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICAN WITH DISABILITIES ACT. THE CONTRACTOR SHALL MEET WITH THE CITY'S TRAFFIC ENGINEERING OPERATIONS PERSONNEL IN THE FIELD AT ALL LOCATIONS TO SPOT EQUIPMENT BEFORE BEGINNING THE WORK. ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
- THE CONTRACTOR IS WARNED THAT EXISTING CONDUITS MAY CONTAIN AC POWER AND CAUTION SHALL BE EXERCISED IN INTERCEPTING OR INSTALLING CABLE IN EXISTING CONDUIT.
- THE CONTRACTOR SHALL BORE, DRILL OR PUSH WHEN CROSSING EXISTING PAVEMENTS AND ANY DRIVEWAYS FOR SIDE STREET CROSSINGS. BEFORE CONDUIT CAN BE BORED, DRILLED OR PUSHED THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES. THE CONTRACTOR SHALL LOCATE AND EXPOSE GAS LINES WHICH CROSS ANY PROPOSED BORES. THESE EXCAVATIONS SHALL REMAIN OPEN UNTIL AFTER THE BORE IS COMPLETE. CONTRACTOR SHALL REMOVE AND REPLACE IN KIND ANY SIDEWALK OR PAVEMENT REQUIRED TO EXPOSE SUCH LINES. THE CONTRACTOR MAY CUT, TRENCH, AND REPLACE EXISTING PAVEMENT ONLY WHEN APPROVED BY THE PROJECT MANAGER.
- SPLICING OF TRAFFIC SIGNAL MCC WILL BE PERMITTED IN LARGE PULL BOXES INCLUDING LARGE MEDIAN PULL BOXES. SPLICING OF VIDEO DETECTION COAXIAL CABLE WILL NOT BE PERMITTED FROM THE MASTARM BASE TO THE CONTROLLER CABINET. SPLICING OF OPTICAL DETECTOR CABLE WILL NOT BE PERMITTED FROM THE DETECTOR TO THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS (857-8000) THREE WORKING DAYS IN ADVANCE OF ANY ANTICIPATED WORK ON SIGNALS, LIGHTING, AND POWER SERVICES. TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL ASSIST THE CONTRACTOR IN THE FIELD LOCATION OF EQUIPMENT, COLOR CODING OF WIRING, AND MUST BE PRESENT WHEN SIGNALS AND LIGHTING ARE SHUTOFF OR TURNED ON. THE CONTRACTOR SHALL ALSO NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS EACH TIME A TRAFFIC SIGNAL CONTROL DOOR IS OPEN.
- THE CONTRACTOR SHALL NOTIFY PNM 30 DAYS IN ADVANCE OF ANY ANTICIPATED POWER SERVICE CONNECTIONS OR MODIFICATIONS. THE CONTRACTOR SHALL COORDINATE WITH PNM TO MAINTAIN ELECTRICAL SERVICE IN THE CITY'S NAME. THE CITY WILL CONTINUE TO PAY THE PNM MONTHLY COSTS OF ELECTRICAL SERVICE.
- THE CONTRACTOR SHALL REMOVE ALL CONFLICTING SIGNING WITHIN THE CITY LIMITS AND DELIVER TO THE CITY TRAFFIC ENGINEERING YARD WHEN PROJECT IS COMPLETE.
- LIVE UNUSED CONDUCTORS WILL NOT BE ALLOWED AT MASTARM POLES AND PEDESTAL POLES. ALL SUCH UNUSED CONDUCTORS SHALL BE DISCONNECTED AT THE LARGE PULL BOX ADJACENT TO THE POLE.
- IF TRENCH WIDTHS LESS THAN 12" ARE PROPOSED BY THE CONTRACTOR, APPROVED COMPACTION METHODS SHALL BE USED DURING BACKFILL TO PREVENT LATENT TRENCH FAILURES. THE CONTRACTOR SHALL USE GROUTIL OR LEAN FILL AS APPROVED BY THE PROJECT MANAGER IN LIEU OF EARTH BACKFILL.
- THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS WILL PROVIDE TRAFFIC SIGNAL TIMING PLANS AND WILL PROGRAM TRAFFIC SIGNAL CONTROLLERS.
- EXISTING CONDUITS TO BE REMOVED OR ABANDONED SHALL HAVE ALL WIRING REMOVED.
- THE CONTRACTOR SHALL PROVIDE OFF-DUTY POLICE OFFICERS TO DIRECT TRAFFIC WHEN SIGNALS ARE TURNED OFF.
- ALL DATA SHOWN HEREIN CONCERNING EXISTING UTILITIES HAS BEEN OBTAINED FROM "AS-BUILT" DRAWINGS AND FROM FIELD OBSERVATIONS WHICH MAY OR MAY NOT BE ACCURATE. THE CONTRACTOR WILL BE RESPONSIBLE FOR EXPLORATORY TRENCHING, IF NECESSARY, TO MORE SPECIFICALLY LOCATE UTILITY LINES. COST OF LOCATING LINES INCLUDING EXPLORATORY TRENCHING WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- THE CONTRACTOR SHALL VIDEO TAPE THE EXISTING TRAFFIC SIGNAL EQUIPMENT IN VHS FORMAT AND PROVIDE A COPY OF THE TAPE TO THE CITY OF ALBUQUERQUE AND REVIEW THE TAPE WITH CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS PERSONNEL PRIOR TO BEGINNING ANY REMOVALS OF SIGNAL EQUIPMENT. THE TAPE SHALL BECOME THE PROPERTY OF THE CITY AND MAY BE USED TO RESOLVE ANY QUESTIONS RELATED TO THE ORIGINAL CONDITION AND QUALITY OF EXISTING EQUIPMENT. ANY REMOVED TRAFFIC SIGNAL EQUIPMENT INCLUDING POLES, CONTROLLER CABINETS, CONFLICT MONITORS, AND DETECTORS SHALL BE DELIVERED TO THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING YARD ON PINO ROAD NE.
- MASTARMS SHALL BE PLACED 90' TO THE CENTERLINE UNLESS OTHERWISE NOTED.
- MOUNT ALL CONTROLLER CABINETS SO DOORS FACE AWAY FROM TRAFFIC, UNLESS OTHERWISE SHOWN ON PLANS OR DIRECTED BY THE PROJECT MANAGER.
- SHOWN DISTANCES TO TRAFFIC SIGNAL POLES TO BE MEASURED FROM PASEO DEL NORTE CENTERLINE, UNLESS OTHERWISE NOTED.
- SIGNAL HEADS SHALL BE COVERED WHEN NECESSARY WITH SIGNAL COVERS APPROVED BY THE PROJECT MANAGER.
- FLASHING OPERATION IS NOT CONSIDERED THE BEGINNING OF THE FIELD TESTING PERIOD.
- ACCEPTABLE TYPE II AND TYPE III STANDARDS ARE VALMONT, UNION METAL, JEM, OR APPROVED EQUAL.
- ALL VIDEO DETECTION COAXIAL AND POWER CABLES SHALL BE TAGGED AT THE CONTROLLER CABINET TO IDENTIFY EACH CABLE BY CAMERA NUMBER AND LOCATION. ALL OPTICAL DETECTOR CABLES SHALL BE TAGGED AT THE CONTROLLER CABINET TO IDENTIFY EACH BY DIRECTION AND LOCATION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF THE POWER AND MAINTENANCE UNTIL SUCH TIME AS THE SIGNAL IS ACCEPTED FOR MAINTENANCE BY THE CITY OF ALBUQUERQUE.
- EXISTING CONDUITS SHALL BE REPAIRED, ADJUSTED, OR REPLACED AS DIRECTED BY THE PROJECT MANAGER WHERE ELECTRICAL PULL BOXES OR TRAFFIC MANHOLES ARE INSTALLED OR REPLACED.

**TRAFFIC SIGNAL EQUIPMENT NOTES**

- THIS PROJECT IS AN EXPANSION OF AN EXISTING SIGNAL SYSTEM; THEREFORE, THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:
  - ALL TRAFFIC INSTALLED CONTROLLERS SUPPLIED FOR THIS PROJECT SHALL BE 8-PHASE TS2 TYPE I. CONTRACTOR SHALL CONSULT WITH CITY OF ALBUQUERQUE TRAFFIC SIGNAL STAFF TO VERIFY CONTROLLER TYPE PRIOR TO ORDERING.
  - THE EIGHT PHASE DUAL RING CONTROLLER CABINET SUPPLIED FOR THIS PROJECT SHALL BE A "P" SIZE CABINET WIRED FOR FULL 8 PHASE SYSTEM OPERATION WITH TS2 TYPE I, TELEMETRY BOARDS, "IT" TRANSIENT VOLTAGE SURGE SUPPRESSOR AND ALL CONNECTING HARNESSSES.
- EMERGENCY VEHICLE PRE-EMPT EQUIPMENT SHALL BE 3M "OPTICOM" MODEL 762, PHASE SELECTORS MOUNTED ON 3M "OPTICOM" MODEL 560 RACKS. ALL RACKS SHALL BE CAPABLE OF PROVIDING FOUR CHANNELS OF DETECTION. PHASE SELECTOR MODULES SHALL BE CAPABLE OF TWO CHANNELS OF DETECTION EACH. OPTICAL DETECTORS SHALL BE 3M "OPTICOM" MODEL 511, 1 CHANNEL, 1 DIRECTION OR APPROVED EQUAL. OPTICAL DETECTOR CABLE SHALL BE 3M "OPTICOM" MODEL 138 OR APPROVED EQUAL. A MANUFACTURER'S REPRESENTATIVE SHALL ASSIST IN SETTING UP, TURNING ON, PROGRAMMING, AND FIELD TESTING PREEMPTION EQUIPMENT TO INSURE THAT EQUIPMENT IS OPERATIONAL.
- ALL SIGNAL ASSEMBLIES, PEDESTRIAN SIGNALS, PEDESTRIAN PUSH BUTTONS, CABINETS, AND FITTINGS SHALL COMPLY WITH CITY OF ALBUQUERQUE STANDARD TYPE AND COLOR REQUIREMENTS. ALL SIGNAL FACES (RED, YELLOW, AND GREEN) SHALL BE L.E.D. PEDESTRIAN SIGNALS SHALL BE L.E.D. WITH FULL COUNTDOWN.
- ALL BACKPLATES SHALL BE LOUVERED.
- LOAD SWITCHES AND SIGNAL FLASHER SHALL BE CUBE TYPE.
- "ALL OR NONE" BIDS BY SIGNAL EQUIPMENT MANUFACTURERS WILL NOT BE ALLOWED. MANUFACTURERS (AS A MINIMUM) SHALL PREPARE SEPARATE BIDS FOR TWO GROUPS OF EQUIPMENT AS FOLLOWS:
  - TRAFFIC SIGNAL CONTROL EQUIPMENT SUCH AS CONTROLLERS, CONTROLLER CABINETS, MONITORS, TELEMETRY, MODEMS, HARNESSSES, AND FIELD ASSISTANCE DURING INSTALLATION.
  - SIGNAL HARDWARE EQUIPMENT SUCH AS SIGNAL HEADS, PEDESTRIAN SIGNALS, PEDESTRIAN PUSH BUTTONS, BACKPLATES, AND ASSOCIATED FITTINGS.
- MACHINE VISION DETECTION SYSTEM SHALL BE AUTOSCOPE SOLO-PRO. SYSTEM SHALL BE COMPLETE AND IN PLACE WITH ALL COMPONENTS NEEDED TO BE FULLY OPERATIONAL.
- FINAL LOCATION OF CAMERAS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- TRAINING SESSIONS SHALL BE HELD FOR ALL ASPECTS OF THE SIGNAL SYSTEM.



**TRAFFIC SIGNAL LEGEND**

NEW	EXISTING	ITEM
■		TRAFFIC SIGNAL PULL BOX
●		SERVICE POLE
□		METER PEDESTAL
□		CONTROLLER CABINET
---		CONDUIT RUN (SIGNALS)
---		CONDUIT RUN (INTERCONNECT)
●		TRAFFIC SIGNAL PEDESTAL POLE
△		CONDUIT RUN NUMBER (SIGNAL)
△		CONDUIT RUN NUMBER (POWER SERVICE)
△		CONDUIT RUN NUMBER (INTERCONNECT)
△		LIGHTING RUN NUMBER
⌚		TYPE II STANDARD WITH MASTARM, TRAFFIC SIGNAL(S), BACKPLATE(S) AND OPTICAL DETECTOR
⌚		TYPE III STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, OPTICAL DETECTOR, LUMINAIRE, AND VIDEO CAMERA
●		PEDESTRIAN PUSH BUTTON (MOUNTED TO SIDE OF POLE WHERE INDICATED)
⌚		PEDESTRIAN SIGNALS (MOUNTED TO SIDE OF POLE WHERE INDICATE)
□		SPLICE CABINET
●	○	TRAFFIC MANHOLE
■		VIDEO CAMERA
■		LIGHTING PULL BOX

**DEFINITIONS**

"ENGINEER" - FOR THE PURPOSES OF THIS PROJECT, THE TERM "ENGINEER" IS SYNONYMOUS WITH THE TERM "PROJECT MANAGER".

NOT TO SCALE

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	AKS 3 1/4"	DATE	NO.	BY	NO. DATE	REMARKS
WORK SHOWN BY	DATE	Aluminum Cap stamped "AKS 1-C11"	DATE				
ACCEPTANCE BY	DATE	Near Intersection of Ridgeway Dr. & Calle Martena	DATE				
FIELD	DATE	Geographic Position (NAD 27), in feet	DATE				
MAINTAINED BY	DATE	N.M. State Plane Coordinate (Central Zone)	DATE				
MAINTAINED BY	DATE	X=368,041.68, Y=1,516,125.33	DATE				
MICRO-FILM INFORMATION	DATE	Elevation=5272.34 NOV029, in feet	DATE				
RECORDED BY	DATE		DATE				
NO.							



CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

**PASEO DEL NORTE EXTENSION  
TRAFFIC SIGNAL NOTES & LEGEND**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	NO. DATE	NO. DATE
APPROVE DEC 1 2 2005	APPROVE DEC 1 2 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
City Project No. COA 704902	Zone Map No. C - 11	Sheet 75	Of 116

SUMMARY OF QUANTITIES



ITEM NO.	BID ITEM	UNITS	TOTAL
422.002	TRAFFIC SIGNAL PEDESTAL POLE, 10', CIP.	EA.	4
422.017	TRAFFIC SIGNAL MASTARM, 30' ARM, TYPE III, TROMBONE, CIP.	EA.	1
422.019	TRAFFIC SIGNAL MASTARM, 35' ARM, TYPE III, TROMBONE, CIP.	EA.	1
422.021	TRAFFIC SIGNAL MASTARM, 40' ARM, TYPE III, TROMBONE, CIP.	EA.	2
422.102	TRAFFIC SIGNAL PEDESTAL POLE, ANY SIZE, REMOVE & RELOCATE, COMPL.	EA.	2
422.110	TRAFFIC SIGNAL MASTARM, ANY SIZE, REMOVE & SALVAGE, COMPL.	EA.	4
423.001	TRAFFIC SIGNAL FOUNDATION FOR PEDESTAL POLE, CIP.	EA.	6
423.002	TRAFFIC SIGNAL MASTARM FOUNDATION, CIP.	EA.	4
423.003	TRAFFIC SIGNAL CONTROLLER FOUNDATION, (TYPE M & P CABINET), CIP.	EA.	1
423.101	TRAFFIC SIGNAL FOUNDATION FOR MASTARM, REMOVE & DISPOSE, COMPL.	EA.	4
423.102	TRAFFIC SIGNAL FOUNDATION, FOR PEDESTAL POLE & SPLICE CABINET, REMOVE & DISPOSE, COMPL.	EA.	2
424.006	ELECTRICAL CONDUIT, 2", INCL. TRENCHING, BACKFILL, PATCHING, PUSHING, BORING, & JACKING, CIP.	LIN. FT.	788
424.011	ELECTRICAL CONDUIT, 3", INCL. TRENCHING, BACKFILL, PATCHING, PUSHING, BORING, & JACKING, CIP.	LIN. FT.	886
425.003	ELECTRICAL PULL BOX, (LARGE), CIP.	EA.	6
425.101	ELECTRICAL PULL BOX, ANY TYPE, REMOVE & DISPOSE, CIP.	EA.	13
426.001	SINGLE CONDUCTOR, #2, CIP.	LIN. FT.	1,780
426.003	SINGLE CONDUCTOR, #6, CIP.	LIN. FT.	779
426.010	MULTI-CONDUCTOR CABLE, #5, CIP.	LIN. FT.	2,139
426.011	MULTI-CONDUCTOR CABLE, #7, CIP.	LIN. FT.	138
426.014	MULTI-CONDUCTOR CABLE, #20, CIP.	LIN. FT.	1,450
427.002	3 SECTION TRAFFIC SIGNAL ASSEMBLY, CIP.	EA.	21
427.004	5 SECTION TRAFFIC SIGNAL ASSEMBLY, CIP.	EA.	3
427.024	PEDESTRIAN SIGNAL, FULL COUNTDOWN, LED, CIP	EA.	8
427.031	3 SECTION BACKPLATE, CIP.	EA.	8
427.101	TRAFFIC SIGNAL ASSEMBLY, ANY TYPE, REMOVE & SALVAGE, COMPL.	EA.	5
427.121	PEDESTRIAN SIGNAL, ANY TYPE, REMOVE & SALVAGE, COMPL.	EA.	6
428.010	PUSH BUTTON STATION, CIP.	EA.	2
428.070	PHASE SELECTOR RACK, 4 CHANNELS, CIP.	EA.	1
428.075	OPTICAL DETECTOR 1D/1C, CIP.	EA.	4
428.078	OPTICAL DETECTOR CABLE, CIP.	LIN. FT.	1,125
428.090	MACHINE VISION VEHICLE DETECTION SYSTEM, CIP.	EA.	1
428.092	VIDEO COAXIAL CABLE, CIP.	LIN. FT.	1,157
428.093	VIDEO POWER CABLE, CIP.	LIN. FT.	1,157
428.094	VIDEO CAMERA, CIP.*	EA.	4
429.001	TRAFFIC ACTUATED CONTROLLER, CIP.	EA.	1
429.021	8 PHASE DUAL RING CONTROLLER CABINET, CIP.	EA.	1
429.101	SIGNAL CONTROLLER, ANY TYPE, REMOVE & SALVAGE, COMPL.	EA.	1
429.121	CONTROLLER CABINET, ANY TYPE, REMOVE & SALVAGE, COMPL.	EA.	1
432.002	ROADWAY LUMINAIRE, TYPE 400S, CIP.	EA.	4

\*ALL CAMERAS SHALL BE AUTOSCOPE SOLO-PRO

INCIDENTAL ITEMS \*

- REMOVAL OF EXISTING PULL BOXES, CONDUITS, CABLES, OR OTHER SIGNAL AND LIGHTING EQUIPMENT NOT SPECIFICALLY ENUMERATED AS BID ITEMS FOR INSTALLATION OF NEW SIGNAL AND LIGHTING EQUIPMENT.
- CABLE TESTING AND DIAGRAMS.
- BORING, DRILLING, PUSHING, AND TRENCHING, INCLUDING REMOVAL AND REPLACEMENT OF PAVEMENT, SIDEWALKS, DRIVE PADS, VALLEY GUTTERS, RAMPS, CURB & GUTTER, AND LANDSCAPING (INCLUDING SPRINKLERS). FOR INSTALLATION OF PULL BOXES, CONDUITS, AND SIGNAL FOUNDATIONS, EXCEPT AS NOTED ON THE PLANS.
- LOCATION OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING AND EXPOSING OF GAS LINES WHEN BORING.
- DESIGN, MATERIALS, INSTALLATION AND REMOVAL OF SAFETY BARRIER FOR SHIELDING EQUIPMENT OR MATERIAL.
- APPRISSING PUBLIC THROUGH THE LOCAL NEWS MEDIA.
- HAULING OF MATERIAL TO BE DISPOSED TO CITY LANDFILL.
- LEAN FILL FOR CONDUIT TRENCHES.
- PULL BOX ADJUSTMENTS TO GRADE.
- OFF-DUTY POLICE OFFICER FOR TRAFFIC CONTROL.
- REMOVAL AND RELOCATION OF EXISTING PEDESTRIAN SIGNALS AND PUSH BUTTONS AS SHOWN IN THE PLANS.
- REMOVAL AND REPLACEMENT IN KIND OR BETTER LANDSCAPING INCLUDING SPRINKLERS, FOR INSTALLATIONS OF PULL BOXES, CONDUITS, AND SIGNAL FOUNDATIONS.
- COST FOR PNM TO PROVIDE ELECTRICAL SERVICE.
- COST FOR QWEST TO PROVIDE TELEPHONE SERVICE.
- EQUIPMENT MANUFACTURER'S ASSISTANCE TO INSTALL, SET-UP, PROGRAM, TURN ON, FIELD TEST, AND PROVIDE TRAINING FOR TRAFFIC SIGNAL EQUIPMENT INCLUDING THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT AND SYSTEM MASTER.
- ANCHOR BOLTS FOR FOUNDATIONS.
- GROUND RODS FOR FOUNDATIONS.
- CONCRETE COLLAR FOR PULL BOX.
- VIDEO TAPING EXISTING TRAFFIC SIGNAL EQUIPMENT AND PROVIDING THE TAPE TO CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS SIGNAL PERSONNEL.
- TRANSPORTATION OF REMOVED OR SALVAGED SIGNAL EQUIPMENT TO THE CITY TRAFFIC ENGINEERING OPERATIONS YARD.

\* ITEMS LISTED ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY NOT BE COMPLETE. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIALS REQUIRED BY THE SPECIAL PROVISIONS SERIALS (STANDARD DETAILS). SUPPLEMENTAL SPECIFICATIONS, OR THE STANDARD SPECIFICATIONS.

CONTRACTOR		DATE	
WORK ORDER NO.		DATE	
INSPECTOR'S ACCEPTANCE BY		DATE	
VERIFICATION BY		DATE	
DRAWINGS CORRECTED BY		DATE	
MICRO-FILM INFORMATION		DATE	
RECORDED BY		DATE	
NO.		NO.	

BENCH MARKS		DATE	
ACS 3 1/4" Aluminum Cap atop road "ACS 1-C11"		DATE	
Near Intersection of Ridgeway Dr. & Calle Norbano		DATE	
Geographic Position (NAD 27), in feet		DATE	
N.M. State Plane Coordinates (Central Zone)		DATE	
X=868,041.88, Y=1,818,125.33		DATE	
Elevation=5272.34 Nov029, in feet		DATE	

ENGINEER'S SEAL		DATE	
NO.		DATE	
BY		DATE	
REMARKS		DATE	
DESIGNED BY		DATE	
DRAWN BY		DATE	
CHECKED BY		DATE	

NOT TO SCALE

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
TRAFFIC SIGNAL QUANTITIES & INCIDENTAL ITEMS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVE DEC 1 2 2005	APPROVE DEC 1 2 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
City Project No. COA 704902	Zone Map No. C - 11	Sheet 76	Of 116



**CONDUIT AND CONDUCTOR REQUIREMENTS**

RUN ID ##	CONDUIT LENGTH, SIZE, AND TYPE			REMARKS	CONDUCTOR LENGTH AND TYPE						
	2"	3"	TYPE		MCC 5 (# @ FT.)	MCC 7 (# @ FT.)	MCC 20 (# @ FT.)	SC 2 (# @ FT.)	SC 6 (# @ FT.)	VIDEO POWER/ COAXIAL (# @ FT.)	ODC* (# @ FT.)
S1	11'		REC	POWER PEDESTAL TO METER PEDESTAL				3 @ 16'			
1	13'		REC	METER PEDESTAL TO CONTROL CABINET					3 @ 18'		
2	47'		REC	CONTROL CABINET TO PB3						4 @ 52'	4 @ 52'
3		47'	REC	CONTROL CABINET TO PB3	1 @ 52'		2 @ 52'	2 @ 52'	1 @ 52'		
4	20'		REC	PB1 TO MA1						1 @ 25'	1 @ 25'
5		20'	REC	PB1 TO MA1	4 @ 25'	1 @ 25'		2 @ 25'			
6		29'	REC	PB1 TO PP1	2 @ 34'						
7	92'		REC	PB1 TO PB2						1 @ 97'	1 @ 97'
8		92'	REC	PB1 TO PB2	1 @ 97'		2 @ 97'	2 @ 97'	1 @ 97'		
9		8'	REC	PB2 TO PPEX1	2 @ 10'						
10	68'		REC	PB2 TO PB3						1 @ 73'	1 @ 73'
11		68'	REC	PB2 TO PB3	1 @ 73'		2 @ 73'	2 @ 73'	1 @ 73'		
12	24'		REC	PB3 TO MA2						1 @ 29'	1 @ 29'
13		24'	REC	PB3 TO MA2	4 @ 29'	1 @ 29'		2 @ 29'			
14		21'	REC	PB3 TO PP2	2 @ 26'						
15	72'		REC	PB3 TO PBEX2						2 @ 77'	2 @ 77'
16		72'	REC	PB3 TO PBEX2	1 @ 77'		2 @ 77'	2 @ 77'	1 @ 77'		
17	18'		REC	PBEX2 TO PBEX3						2 @ 23'	2 @ 23'
18		18'	REC	PBEX2 TO PBEX3	1 @ 23'		2 @ 23'	2 @ 23'	1 @ 23'		
19		5'	REC	PBEX3 TO PPEX2	2 @ 10'						
20	70'		REC	PBEX3 TO PB4						2 @ 75'	2 @ 75'
21		70'	REC	PBEX3 TO PB4	1 @ 75'		2 @ 75'	2 @ 75'	1 @ 75'		
22	26'		REC	PB4 TO MA3						1 @ 31'	1 @ 31'
23		26'	REC	PB4 TO MA3	4 @ 31'			2 @ 31'			
24		17'	REC	PB4 TO PP3	2 @ 22'						
25	83'		REC	PB4 TO PB5						1 @ 88'	1 @ 88'
26		83'	REC	PB4 TO PB5	1 @ 88'		2 @ 88'		1 @ 88'		
27		9'	REC	PB5 TO PPEX3	2 @ 14'						
28	75'		REC	PB5 TO PB6						1 @ 80'	1 @ 80'
29		75'	REC	PB5 TO PB6	1 @ 80'		2 @ 80'		1 @ 80'		
30	19'		REC	PB6 TO MA4						1 @ 24'	1 @ 24'
31		19'	REC	PB6 TO MA4	4 @ 24'	1 @ 24'		2 @ 24'			
32		24'	REC	PB6 TO PP4	2 @ 29'						
33	89'		REC	PB6 TO PBEX1							
34		89'	REC	PB6 TO PBEX1	1 @ 94'		2 @ 94'	2 @ 94'	1 @ 94'		
35		9'	REC	PBEX1 TO PPEX4	2 @ 14'						
36	61'		REC	PBEX1 TO PB1							
37		61'	REC	PBEX1 TO PB1	1 @ 66'		2 @ 66'	2 @ 66'	1 @ 66'		
SUBTOTAL-THIS SHEET	788'	886'			1479'	78'	1450'	1380'	779'	1005'	1005'

\*ODC = OPTICAL DETECTOR CABLE

CONTRACTOR		DATE	
INSPECTOR'S NAME		DATE	
INSPECTOR'S TITLE		DATE	
DRAWN BY		DATE	
CHECKED BY		DATE	
DESIGNED BY		DATE	
DRAWN BY		DATE	
CHECKED BY		DATE	

AS BUILT INFORMATION	BENCH MARKS	SURVEY INFORMATION
CONTRACTOR	ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	FIELD NOTES
INSPECTOR'S NAME	Near Intersection of Ridgeway Dr. & Calle Nortena	BY
INSPECTOR'S TITLE	Geographic Position (NAD 27), in feet	DATE
DRAWN BY	N.M. State Plane Coordinates (Central Zone)	NO.
CHECKED BY	X=368,041.86, Y=1,519,125.33	
DESIGNED BY	Elevation=5272.34 NGVD29, in feet	
DRAWN BY		
CHECKED BY		



NOT TO SCALE

CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT TRANSPORTATION DIVISION			
PASEO DEL NORTE EXTENSION TRAFFIC SIGNAL QUANTITIES			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	NO./DAY/YR.	NO./DAY/YR.
APPROVE DEC 1 2 2005	APPROVE DEC 1 2 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
City Project No. COA 704902	Zone Map No. C - 11	Sheet 77	Of 116

CONDUIT AND CONDUCTOR REQUIREMENTS CONTINUED



AS BUILT INFORMATION		CONTRACTOR	DATE
BENCH MARKS		WORK STARTED BY	DATE
SURVEY INFORMATION		INSPECTOR'S	DATE
FIELD NOTES		FIELD ENGINEER BY	DATE
ENGINEER'S SEAL		APPROVED BY	DATE
REMARKS		DESIGNED BY	DATE
BY		DRAWN BY	DATE
NO. DATE		CHECKED BY	DATE

NOT TO SCALE

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
TRAFFIC SIGNAL QUANTITIES

DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL  
DEC 1 22 5  
CITY ENGINEER

City Project No. COA 704902

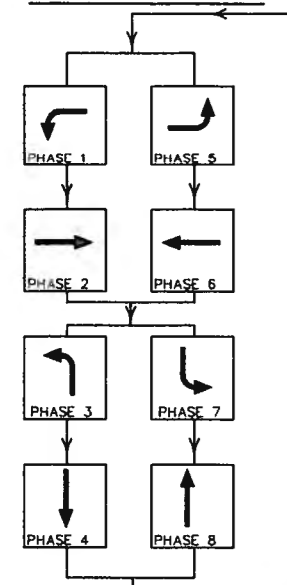
Zone Map No. C - 11

Sheet 78 Of 116

RUN ID #	CONDUIT LENGTH, SIZE, AND TYPE		TYPE	REMARKS	CONDUCTOR LENGTH AND TYPE						
	2"	3"			MCC 5 (# @ FT.)	MCC 7 (# @ FT.)	MCC 20 (# @ FT.)	SC 2 (# @ FT.)	SC 6 (# @ FT.)	VIDEO POWER/ COAXIAL (# @ FT.)	ODC* (# @ FT.)
MA1				BASE TO SIGNAL 1A		1 @ 15'					
MA1				BASE TO SIGNAL 2C	1 @ 15'						
MA1				BASE TO SIGNAL 1M1	1 @ 40'						
MA1				BASE TO SIGNAL 1M2	1 @ 50'						
MA1				BASE TO PED SIGNAL P1	1 @ 10'						
MA1				BASE TO PPB1	1 @ 5'						
MA1				BASE TO OPTICAL DETECTOR OP1						1 @ 30'	
MA1				BASE TO CAMERA CAM1					1 @ 38'		
MA1				BASE TO LUM1			2 @ 50'				
MA2				BASE TO SIGNAL 2A		1 @ 15'					
MA2				BASE TO SIGNAL 3C	1 @ 15'						
MA2				BASE TO SIGNAL 2M1	1 @ 40'						
MA2				BASE TO SIGNAL 2M2	1 @ 50'						
MA2				BASE TO PED SIGNAL P3	1 @ 10'						
MA2				BASE TO PPB3	1 @ 5'						
MA2				BASE TO OPTICAL DETECTOR OP2						1 @ 30'	
MA2				BASE TO CAMERA CAM2					1 @ 38'		
MA2				BASE TO LUM2			2 @ 50'				
MA3				BASE TO SIGNAL 3A		1 @ 15'					
MA3				BASE TO SIGNAL 4C	1 @ 15'						
MA3				BASE TO SIGNAL 3M1	1 @ 40'						
MA3				BASE TO SIGNAL 3M2	1 @ 50'						
MA3				BASE TO PED SIGNAL P5	1 @ 10'						
MA3				BASE TO PPB5	1 @ 5'						
MA3				BASE TO OPTICAL DETECTOR OP3						1 @ 30'	
MA3				BASE TO CAMERA CAM3					1 @ 38'		
MA3				BASE TO LUM3			2 @ 50'				
MA4				BASE TO SIGNAL 4A		1 @ 15'					
MA4				BASE TO SIGNAL 1C	1 @ 15'						
MA4				BASE TO SIGNAL 4M1	1 @ 40'						
MA4				BASE TO SIGNAL 4M2	1 @ 50'						
MA4				BASE TO PED SIGNAL P7	1 @ 10'						
MA4				BASE TO PPB7	1 @ 5'						
MA4				BASE TO OPTICAL DETECTOR OP4						1 @ 30'	
MA4				BASE TO CAMERA CAM4					1 @ 38'		
MA4				BASE TO LUM4			2 @ 50'				
PP1				BASE TO PED SIGNAL P2	1 @ 10'						
PP1				BASE TO PPB2	1 @ 5'						
PP2				BASE TO PED SIGNAL P4	1 @ 10'						
PP2				BASE TO PPB4	1 @ 5'						
PP3				BASE TO PED SIGNAL P6	1 @ 10'						
PP3				BASE TO PPB6	1 @ 5'						
PP4				BASE TO PED SIGNAL P8	1 @ 10'						
PP4				BASE TO PPB8	1 @ 5'						
PPEX1				BASE TO SIGNAL 2B	1 @ 15'						
PPEX1				BASE TO SIGNAL 4D	1 @ 15'						
PPEX2				BASE TO SIGNAL 3B	1 @ 15'						
PPEX2				BASE TO SIGNAL 1D	1 @ 15'						
PPEX3				BASE TO SIGNAL 4B	1 @ 15'						
PPEX3				BASE TO SIGNAL 2D	1 @ 15'						
PPEX4				BASE TO SIGNAL 1B	1 @ 15'						
PPEX4				BASE TO SIGNAL 3D	1 @ 15'						
SUBTOTAL-THIS SHEET	0'	0'			660'	60'	0'	400'	0'	152'	120'
SUBTOTAL-PREVIOUS SHEET	788'	886'			1479'	78'	1450'	1380'	779'	1005'	1005'
TOTAL	788'	886'			2139'	138'	1450'	1780'	779'	1157'	1125'

\*ODC = OPTICAL DETECTOR CABLE

**SIGNAL PHASING**



**VIDEO POWER AND COAXIAL CABLE**

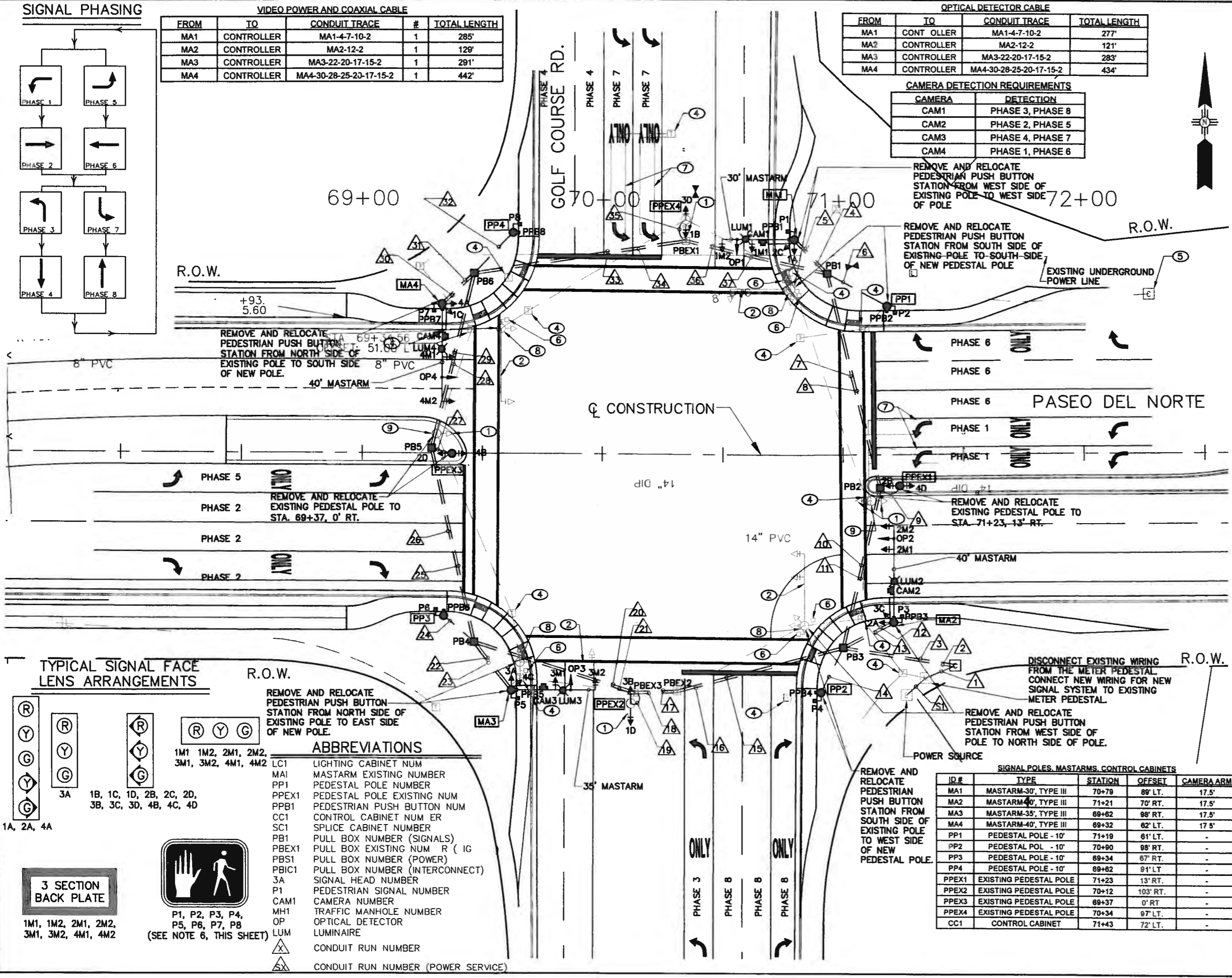
FROM	TO	CONDUIT TRACE	#	TOTAL LENGTH
MA1	CONTROLLER	MA1-4-7-10-2	1	285'
MA2	CONTROLLER	MA2-12-2	1	129'
MA3	CONTROLLER	MA3-22-20-17-15-2	1	291'
MA4	CONTROLLER	MA4-30-28-25-20-17-15-2	1	442'

**OPTICAL DETECTOR CABLE**

FROM	TO	CONDUIT TRACE	TOTAL LENGTH
MA1	CONTROLLER	MA1-4-7-10-2	277'
MA2	CONTROLLER	MA2-12-2	121'
MA3	CONTROLLER	MA3-22-20-17-15-2	283'
MA4	CONTROLLER	MA4-30-28-25-20-17-15-2	434'

**CAMERA DETECTION REQUIREMENTS**

CAMERA	DETECTION
CAM1	PHASE 3, PHASE 8
CAM2	PHASE 2, PHASE 5
CAM3	PHASE 4, PHASE 7
CAM4	PHASE 1, PHASE 6



**KEYED NOTES:**

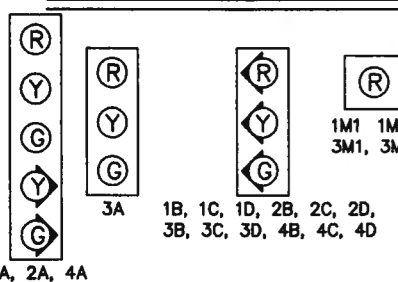
- REMOVE & SALVAGE EXISTING 3-SECTION SIGNAL ASSEMBLY (BACKPLATE SHALL REMAIN IN PLACE)
- REMOVE & SALVAGE EXISTING MASTARM
- REMOVE & RELOCATE EXISTING MASTARM
- REMOVE & DISPOSE EXISTING PULL BOX
- REMOVE AND SALVAGE EXISTING CONTROLLER AND CABINET. REMOVE FOUNDATION AND CONDUIT OF CONTROLLER. LEVEL EXISTING GROUND TO MATCH SURROUNDING GROUND AREA OF EXISTING CONTROLLER AND CABINET.
- REMOVE AND SALVAGE PEDESTRIAN SIGNAL
- DISCONNECT LOOP DETECTOR AND REMOVE WIRING FROM CONDUIT
- REMOVE & DISPOSE OF TRAFFIC SIGNAL FOUNDATION FOR MASTARM
- REMOVE & DISPOSE OF TRAFFIC SIGNAL FOUNDATION FOR PEDESTAL POLE

**NOTES:**

- ALL DATA SHOWN HEREIN CONCERNING EXISTING SIGNAL EQUIPMENT (MASTARMS, SIGNAL HEADS, CONDUIT RUNS, ETC.) HAS BEEN OBTAINED FROM "AS-BUILT" DRAWINGS AND FROM FIELD OBSERVATIONS.
- EXISTING CONDUIT RUNS SHOWN HEREIN ARE SHOWN FOR CLARITY OF RUNS AND MAY NOT REPRESENT ACTUAL ALIGNMENT OF CONDUIT RUNS.
- THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALBUQUERQUE FOR REPROGRAMMING OF THE EXISTING SIGNAL CONTROLLER LOCATED AT THE INTERSECTION OF PASEO DEL NORTE AND GOLF COURSE ROAD.
- REMOVAL AND RESETTING OF EXISTING PEDESTRIAN SIGNALS AND PUSH BUTTONS AS SHOWN IN THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
- ALL PULL BOXES ARE LARGE PULL BOXES.
- ALL PEDESTRIAN SIGNALS SHALL BE L.E.D. WITH A FULL COUNTDOWN.

SCALE: 1"=20'

**TYPICAL SIGNAL FACE LENS ARRANGEMENTS**



REMOVE AND RELOCATE PEDESTRIAN PUSH BUTTON STATION FROM NORTH SIDE OF EXISTING POLE TO EAST SIDE OF NEW POLE.

**ABBREVIATIONS**

- 1M1, 1M2, 2M1, 2M2, 3M1, 3M2, 4M1, 4M2
- LC1 LIGHTING CABINET NUM
- MA1 MASTARM EXISTING NUMBER
- PP1 PEDESTAL POLE NUMBER
- PPEX1 PEDESTAL POLE EXISTING NUM
- PPB1 PEDESTRIAN PUSH BUTTON NUM
- CC1 CONTROL CABINET NUM ER
- SC1 SPLICE CABINET NUMBER
- PB1 PULL BOX NUMBER (SIGNALS)
- PBEX1 PULL BOX EXISTING NUM R (IG)
- PBS1 PULL BOX NUMBER (POWER)
- PBIC1 PULL BOX NUMBER (INTERCONNECT)
- 3A SIGNAL HEAD NUMBER
- P1 PEDESTRIAN SIGNAL NUMBER
- CAM1 CAMERA NUMBER
- MH1 TRAFFIC MANHOLE NUMBER
- OP OPTICAL DETECTOR
- LUM LUMINAIRE
- CONDUIT RUN NUMBER
- CONDUIT RUN NUMBER (POWER SERVICE)

3 SECTION BACK PLATE



P1, P2, P3, P4, P5, P6, P7, P8 (SEE NOTE 6, THIS SHEET)

**SIGNAL POLES, MASTARMS, CONTROL CABINETS**

ID#	TYPE	STATION	OFFSET	CAMERA ARM
MA1	MASTARM-30', TYPE III	70+79	89' LT.	17.5'
MA2	MASTARM-40', TYPE III	71+21	70' RT.	17.5'
MA3	MASTARM-35', TYPE III	69+62	98' RT.	17.5'
MA4	MASTARM-40', TYPE III	69+32	62' LT.	17.5'
PP1	PEDESTAL POLE - 10'	71+19	61' LT.	-
PP2	PEDESTAL POL - 10'	70+90	98' RT.	-
PP3	PEDESTAL POLE - 10'	69+34	67' RT.	-
PP4	PEDESTAL POLE - 10'	69+62	91' LT.	-
PPEX1	EXISTING PEDESTAL POLE	71+23	13' RT.	-
PPEX2	EXISTING PEDESTAL POLE	70+12	103' RT.	-
PPEX3	EXISTING PEDESTAL POLE	69+37	0' RT.	-
PPEX4	EXISTING PEDESTAL POLE	70+34	97' LT.	-
CC1	CONTROL CABINET	71+43	72' LT.	-

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

**PASEO DEL NORTE EXTENSION TRAFFIC SIGNAL MODIFICATIONS**

DESIGN REVIEW COMMITTEE APPROVAL: DEC 1 8 2005

CITY ENGINEER APPROVAL: DEC 1 8 2005

City Project No. COA 704902      Zone Map No. C - 11      Sheet 79 Of 116

**Traffic Control Plan**

Phase I may be concurrent with Phases II, III, and IV.

**Phase I - Build open space fence prior to starting any construction activities.**

- Place barricades across PDN on west side of intersection, preventing access from all but construction related traffic. Prohibit all turning and through movements onto PDN west of the intersection.
- Build Paseo del Norte extension.

**Phase II - Traffic Signal & Utility Construction - NW Quadrant of Intersection**

- Build Traffic Signal
- Build new SAS line from west to new MH at approx. Sta 69+20
- Bypass pump from first SAS MH upstream of the intersection to the existing MH @ approx. Sta. 70+25 - 60' Lt.
- Build new MH @ Sta. 70+25 - 70' Lt. w/stub out to west. Close innermost turn lane while maintaining traffic on the 2<sup>nd</sup> turn lane. Convert Lane 3 to Left Turn Only. Maintain Lane 4 as south bound through lane.
- Night time construction only (9 PM to 5 AM):
  - Construct remainder of SAS line across south bound Lanes. Maintain one (1) left turn lane and one through lane during construction. All trenches must be covered and drivable by 5 AM each weekday morning.
- Restore two left turn lanes from south bound Golf Course to east bound PDN.

**Phase III - NE Quadrant of Intersection**

- Build Traffic Signal
- Close free right turn lane from westbound PDN to northbound Golf Course.
- Close inner left turn lane to southbound Golf Course.
- Allow left turn movement from lane 3 west bound PDN to south bound Golf Course.
- Remove free-right island, construct new curb/sidewalk/ramps on NE corner of the intersection.

**Phase IV - SE Quadrant of Intersection**

- Build Traffic Signal
- Night time construction only (9 PM to 5 AM)
  - Close inside left turn lane from south bound Golf Course to east bound PDN.
  - Close inside east bound lane on PDN from intersection east to Sta. 74+00.
  - Remove existing median curb on PDN east of the intersection.
  - Patch existing asphalt surface in median area in order to provide adequate driving surface for east bound traffic on PDN.
  - Restore double left turn movement from south bound Golf Course to east bound PDN by 5 AM each work day.
- Close free right turn lane from north bound Golf Course to east bound PDN. Allow right turns from north bound Golf Course to east bound PDN from
- Remove existing island. Construct new curb/sidewalk/ramps on SE corner. Divert through traffic as needed using existing left turn lane on Golf Course.

AS BUILT INFORMATION	
CONTRACTOR	DATE
STAKED BY	DATE
INSPECTOR'S APPROVAL BY	DATE
VERIFICATION BY	DATE
RECORDED BY	DATE
MICRO-FILM INFORMATION	
NO.	DATE

BENCH MARKS	
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	DATE
Near Intersection of Ridgeway Dr. & Calle Nariena	
Geographic Position (NAD 27), in feet	
N.M. State Plane Coordinates (Central Zone)	
X=366,041.86, Y=1,518,125.33	
Elevation=5272.34 NAVD29, in feet	

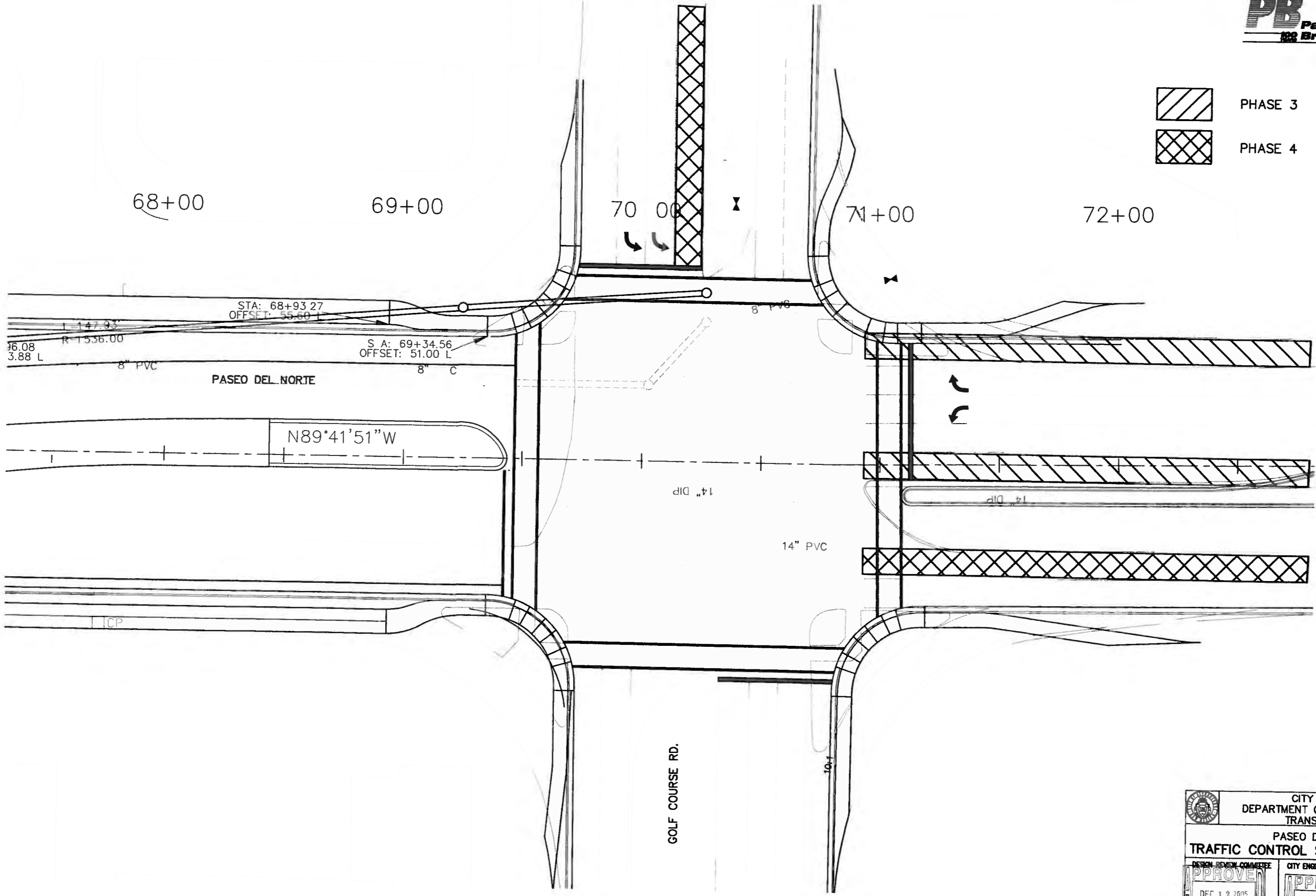
SURVEY INFORMATION	
FIELD NOTES	DATE
BY	
NO.	

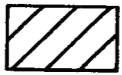



REMARKS	BY
DESIGN	DATE
DRAWN BY	DATE
CHECKED BY	DATE

CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT TRANSPORTATION DIVISION			
PASEO DEL NORTE EXTENSION TRAFFIC CONTROL SEQUENCING			
DESIGN REVIEW COMMITTEE APPROVED DEC 1 8 2005 DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL APPROVED DEC 1 8 2005 CITY ENGINEER	MO./DAY/YR.	MO./DAY/YR.
City Project No. COA 704902	Zone Map No. C - 11	Sheet 80	Of 116





 PHASE 3  
 PHASE 4

AS BUILT INFORMATION	
CONTRACTOR	
WORK STARTED BY	
DATE	
ACCEPTANCE BY	
DATE	
FIELD NO. BY	
DATE	
DRAWING NO.	
CHECKED BY	
DATE	
MICRO-FILM INFORMATION	
RECORDED BY	
DATE	
NO.	

SURVEY INFORMATION	
FIELD NOTES	
BY	
DATE	
NO.	



NO.	DATE	REMARKS	BY
		DESIGN	
	DATE		
	DATE		
	DATE		

CITY OF ALBUQUERQUE  
 DEPARTMENT OF MUNICIPAL DEVELOPMENT  
 TRANSPORTATION DIVISION  
 PASEO DEL NORTE EXTENSION  
**TRAFFIC CONTROL SEQUENCING PHASE 3 AND 4**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVE DEC 1 2 2005	APPROVE DEC 1 2 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 82 Of 116

**GENERAL NOTES**

ALL QUANTITIES SHOWN IN PLANT LIST AND IRRIGATION PARTS LIST ARE FOR CONVENIENCE. CONTRACTOR SHALL BE RESPONSIBLE FOR HIS/HER QUANTITY TAKE OFFS. IN SITUATIONS WHERE PLANS CONFLICT WITH QUANTITIES SHOWN IN PLANT LIST OR IRRIGATION PARTS LIST THE QUANTITIES IN THE PLANS SHALL GOVERN.

CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS.

**PLANTING NOTES**

ALL WORK TO BE PERFORMED WITHIN THE RIGHT-OF-WAY.

CONTRACTOR SHALL BE FAMILIAR WITH PLANS, DETAILS AND SPECIFICATIONS AS THEY PERTAIN TO THE SITE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNER'S REPRESENTATIVE IF ANY ITEMS CONTAINED WITHIN THE SCOPE OF WORK DEFINED HEREIN, ARE IN CONFLICT WITH PROPOSED CONTRACT.

EXISTING UTILITY LINES ARE TO BE BLUE STAKED PRIOR TO EXCAVATION FOR PLANT MATERIALS. CHECK AND FIELD VERIFY ALL SITE CONDITIONS, UTILITIES AND SERVICES PRIOR TO EXCAVATION. CALL N.M ONE CALL AT 260-1990 FOR BLUE STAKING.

**SYSTEM MAINTENANCE AND WARRANTY**

MAINTENANCE AND PROTECTING OF TREES, SHRUBS, AND GROUND COVER SHALL BEGIN IMMEDIATELY FOLLOWING THE FINAL INSPECTION AND ACCEPTANCE OF THE PROJECT AND CONTINUE FOR A PERIOD OF TWO YEARS. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, CULTIVATING, REMOVAL OF DEAD MATERIAL AND DEBRIS, RESETTING OF TREES TO UPRIGHT POSITIONS, RESTORATION OF EARTH BASINS, AND SUCH OTHER OPERATIONS AS MAY BE NECESSARY FOR THE HEALTH OF THE PLANTED STOCK AND THE GENERAL APPEARANCE OF THE LANDSCAPED AREAS. PROTECTION SHALL INCLUDE CARE OF THE PLANTED STOCK FROM DAMAGES RESULTING FROM TRESPASS, EROSION (INCLUDING WATERING), WEATHER, VANDALISM, DISEASE AND THE LIKE.

**GRADING**

PERFORM GRADING AND EXCAVATION WORK IN COMPLIANCE WITH APPLICABLE SPECIFICATIONS, REQUIREMENTS, CODES AND ORDINANCES OF THE CITY OF ALBUQUERQUE AND OTHER GOVERNING BODIES HAVING JURISDICTION.

FINE GRADING: FINAL GRADES SHALL BE AS SHOWN ON THE PLANS AND DETAILS. SURFACE SHALL BE RAKED FREE OF STONES AND EXTRANEIOUS MATERIALS AND DEBRIS TO A SMOOTH AND EVEN TEXTURE. PRIOR TO THE START OF PLANTING, MULCHING, OR SEEDING, ALL FINISH GRADES SHALL BE ESTABLISHED AND APPROVED BY THE OWNER'S REPRESENTATIVE. ALL EXTRANEIOUS MATTER WILL BE DISPOSED OF BY CONTRACTOR.

SEE DETAIL A/L-11 FOR TYPICAL MEDIAN SECTION.

**NATIVE GRASS SEEDING**

ON SEEDED SLOPES 3:1 OR STEEPER, APPLY 2"-8" BASALT AGGREGATE AS A GRAVEL MULCH, ALSO APPLY ALL OTHER SLOPES 40-50% COVERAGE WITH RANDOM CONCENTRATION TO SIMULATE THE ESCARPMENT. BASALT SHALL BE OBTAINED FROM PROJECT SITE.

SEED MIX AND RATE SHALL BE AS NOTED ON THIS SHEET.

PROTECT AND MAINTAIN ALL REVEGETATED AREAS UNTIL A DENSE UNIFORM STAND OF NATIVE PLANT MATERIAL HAS BEEN ESTABLISHED AND FOR A PERIOD NOT LESS THAN TWO YEARS FROM FINAL INSPECTION AND ACCEPTANCE OF THE PROJECT. A DENSE UNIFORM STAND SHALL BE DEFINED AS WHEN THE DENSITY OF THE REVEGETATED AREA IS SUCH THAT THERE ARE NO BARE AREAS OF SOIL GREATER THAN 8" IN DIAMETER.

THE CONTRACTOR SHALL PROVIDE A TEMPORARY WATER DELIVERY SYSTEM WHICH MAY BE A SPRINKLER SYSTEM, WATER TRUCK WITH A SPRAY BOOM, OR ANY OTHER METHOD SATISFACTORY TO DISTRIBUTE A UNIFORM COVERAGE OF CLEAN WATER TO PREVIOUSLY SEEDED AREAS.

THE WATER DISTRIBUTED SHALL BE FREE OF OIL, ACID, SLAT, OR OTHER SUBSTANCES HARMFUL TO PLANTS. THE WATER SOURCE SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE.

IF A TEMPORARY SPRINKLER SYSTEM IS USED, ALL PIPE CONNECTIONS SHALL BE KEPT TIGHT TO AVOID LEAKAGE AND LOSS OF WATER AND TO PRECLUDE WASHING OR EROSION OF GROWING AREAS. ALL SPRINKLERS SHALL BE MAINTAINED IN PROPER WORKING ORDER DURING THE 2 YEAR WARRANTY WATERING PERIOD.

TRUCKS WITH SPRAY SYSTEMS SHALL NOT BE DRIVEN ON SEEDED AREAS, AND THE WATER FORCE SHALL NOT BE OF SUCH VOLUME OR PRESSURE TO CAUSE MOVEMENT OF THE MULCH/TREES AND GROWERS. IN NATIVE GRASS SEED AREA WILL BE IRRIGATED WITH A TEMPORARY WATER DELIVERY SYSTEM.

INSTALL ALL PLANT MATERIAL AS PER C.O.A. STANDARD DETAILS 2714, 2715, 2716, OR 2717.

**PLANT LEGEND**

Symbol	Botanical Name	Common Name	Qty	Size/Notes	Ht x Spr
<b>TREES</b>					
	<i>Chilopsis linearis</i>	DESERT WILLOW	13	24" BOX 7' MIN HT.	20' x 20'
	<i>Yucca elata</i>	SOAP TREE YUCCA	4	7' MIN HT.	10' x 6'
<b>SHRUBS AND ORNAMENTAL GRASSES</b>					
	<i>Oryzopsis hymenoides</i>	INDIAN RICEGRASS	47	1 GAL.	2' x 2'
	<i>Sphaeralcea ambigua 'Louis Hamilton'</i>	GLOBE MALLOW	48	1 GAL.	2' x 3'
	<i>Dasyliirion wheeleri</i>	SOTOL	40	5 GAL.	4' x 4'
	<i>Chrysothamnus depressus</i>	DWARF CHAMISA	60	5 GAL.	2' x 3'
	<i>Artemisia filifolia</i>	SAND SAGE	30	5 GAL.	4' x 6'
	<i>Atriplex confertifolia</i>	SHADESCALE	37	5 GAL.	3' x 3'
	<i>Bouteloua curtipendula (SG)</i>	SIDEQATS GRAMA	16	1 GAL.	2' x 2'

**RECLAMATION TREES, SHRUBS, AND GRASSES (2 YEAR WARRANTY)**

Symbol	Botanical Name	Common Name	Qty	Size/Notes	Ht x Spr
<b>TREES</b>					
	<i>Chrysothamnus nauseosus (c)</i>	CHAMISA	41	10 CI TUBE PACK	5' x 6'
	<i>Artemisia filifolia (S)</i>	SANDSAGE	20	10 CI TUBE PACK	4' x 6'
	<i>Atriplex canescens (FWS)</i>	FOUR WING SALT BUSH	28	10 CI TUBE PACK	5' x 6'
	<i>Chilopsis linearis (DW)</i>	DESERT WILLOW	13	10 CI TUBE PACK	20' x 20'
	<i>Juniperus monosperma (OSJ)</i>	ONE SEED JUNIPER	9	10 CI TUBE PACK	10' x 12'

		LBS PLS/ACRE	
	<i>Oryzopsis hymenoides "Paloma"</i>	PALOMA INDIAN RICEGRASS	8.0
	<i>Hilaria jamesii "Viva"</i>	VIVA GALLETIA GRASS	4.0
	<i>Bouteloua curtipendula "Niner"</i>	NINER SIDEQATS GRAMA	6.0
	<i>Bouteloua gracilis "Hatchita"</i>	HATCHITA BLUE GRAMA	6.0
	<i>Sporobolus cryptandrus</i>	SAND DROPSEED	1.5
	<i>Baileya multiradiata</i>	DESERT MARI GOLD	.05
	<i>Gaillardia aristata</i>	FIRE WHEEL	0.5
	<i>Penstemon ambiguus</i>	SAND PENSTEMON	0.5
	<i>Atriplex canescens</i>	FOURWING SALT BUSH	1.0
		<b>28.0 LBS PLS/ACRE</b>	

**MATERIALS LEGEND**

Symbol	Botanical Name
	CRUSHER FINES : PLUM ROSE
	BASALT COBBLE : 2" -8" EXISTING OBTAINED ON-SITE
	GRAVEL : 1" CRUSHED PLUM ROSE
	FRACTURED CONCRETE : DARK WALNUT COLOR (CS-14) LITHOCHROME CHEMSTAIN FINISH SCOFIELD SYSTEMS, www.scofield.com

ALL AGGREGATE MULCH SHALL BE PLACED OVER DE WITT PRO 5 FILTER FABRIC OR APPROVED EQUAL.

ALL TREES AND SHRUBS IN RECLAMATION AREA WILL BE IRRIGATED WITH A TEMPORARY WATER DELIVERY SYSTEM. SEE NOTES. ALL TUBE PACKS SHALL BE INSTALLED AS PER DETAIL B/L-11.

DATE	DATE	DATE	DATE	DATE	DATE
CONTRACTOR	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	RECORDED BY

NO.	BY	DATE

NO.	BY	DATE



NO.	DATE	REVISIONS	BY



**CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT**

TITLE: **PASEO DEL NORTE EXTENSION LANDSCAPE NOTES AND LEGENDS L-1**

Design Review Committee: **APPROVE** DEC 1 & 2005

City Engineer: **APPROVE** DEC 1 & 2005

City Project No. **COA 7049** Zone Map No. **C-11** Sheet **83 OF 116**

AS-BUILT INFORMATION	
CONTRACTOR	DATE
WORK	DATE
DESIGNED BY	DATE
APPROVED BY	DATE
REVISIONS BY	DATE
CONDUCTED BY	DATE
RECORDED BY	DATE
MICRO-FILM INFORMATION	
NO.	DATE

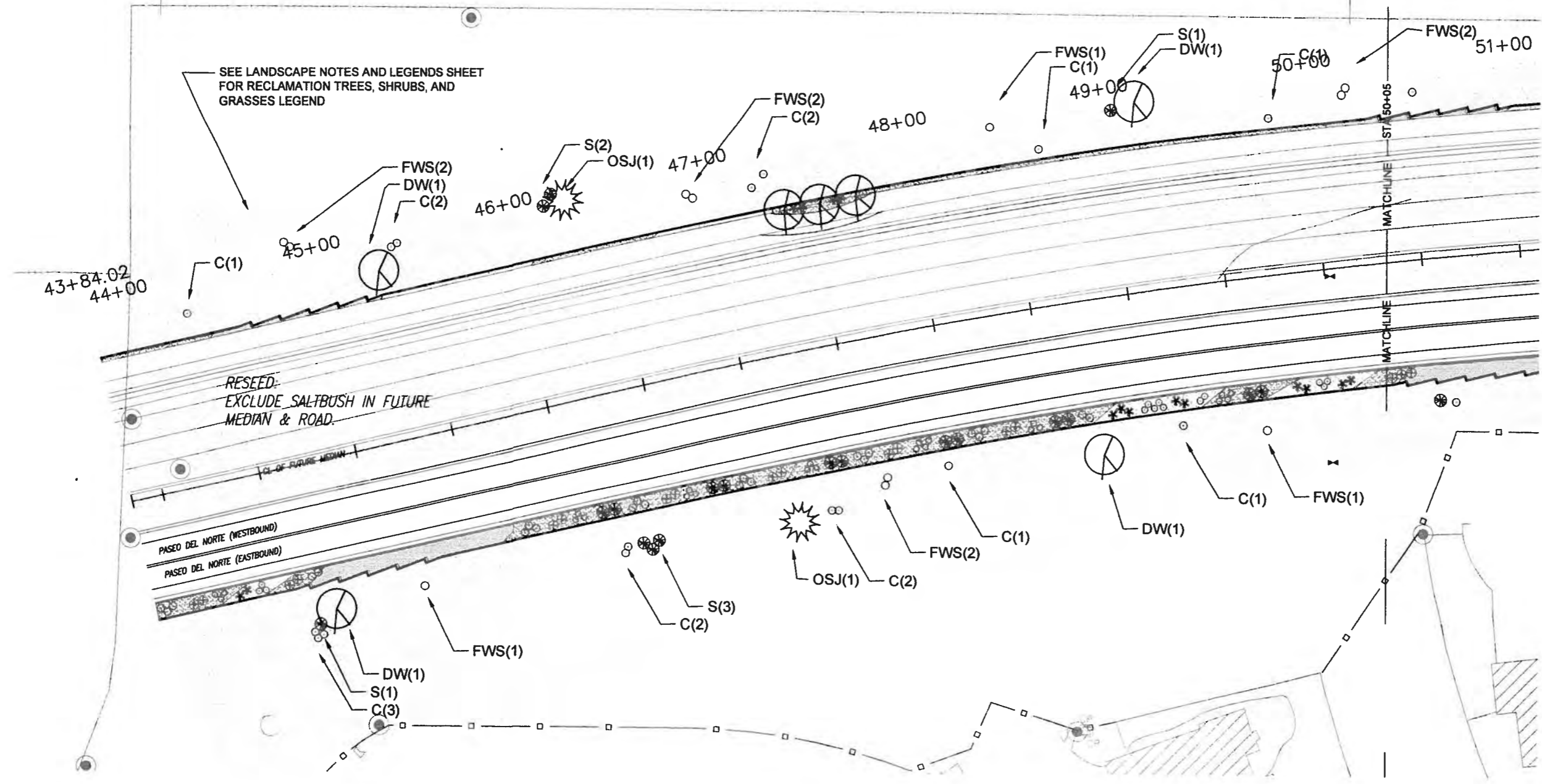
BENCH MARKS	
NO.	DATE

SURVEY INFORMATION	
NO.	DATE

ENGINEER'S SEAL

NO.	DATE	REVISIONS	BY
		DESIGN	

DESIGNED BY TAG	DATE 11.16.05
DRAWN BY AM	DATE 11.16.05



**PLANT LEGEND**

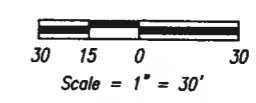
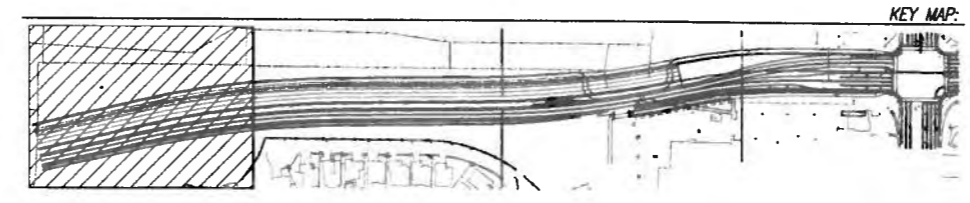
FOR COMPLETE PLANT LEGEND, SEE LANDSCAPE NOTES AND LEGENDS SHEET

Symbol	Botanical Name	Common Name
	<i>Chilopsis linearis</i>	DESERT WILLOW
	<i>Juniperus monosperma</i>	ONE SEED JUNIPER
	<i>Yucca elata</i>	SOAP TREE YUCCA
	<i>Oryzopsis hymenoides</i>	INDIAN RICEGRASS
	<i>Sphaeralcea spp.</i>	GLOBE MALLOW
	<i>Dasyliion wheeleri</i>	SOTOL
	<i>Chrysothamnus depressus</i>	DWARF CHAMISA
	<i>Artemisia filifolia</i>	SAND SAGE
	<i>Atriplex confertifolia</i>	SHADESCALE
	<i>Bouteloua curtipendula</i>	SIDEOATS GRAMA

**MATERIALS LEGEND**

FOR COMPLETE MATERIALS LEGEND, SEE LANDSCAPE NOTES AND LEGENDS SHEET

Symbol	Name
	CRUSHER FINES : PLUM ROSE
	BASALT COBBLE : 2" -8" EXISTING OBTAINED ON-SITE
	GRAVEL : 1" CRUSHED PLUM ROSE
	FRACTURED CONCRETE : DARK WALNUT COLOR (CS-14) LITHOCHROME CHEMSTAIN FINISH SCOFIELD SYSTEMS, www.scofield.com
	NATIVE GRASS SEEDING

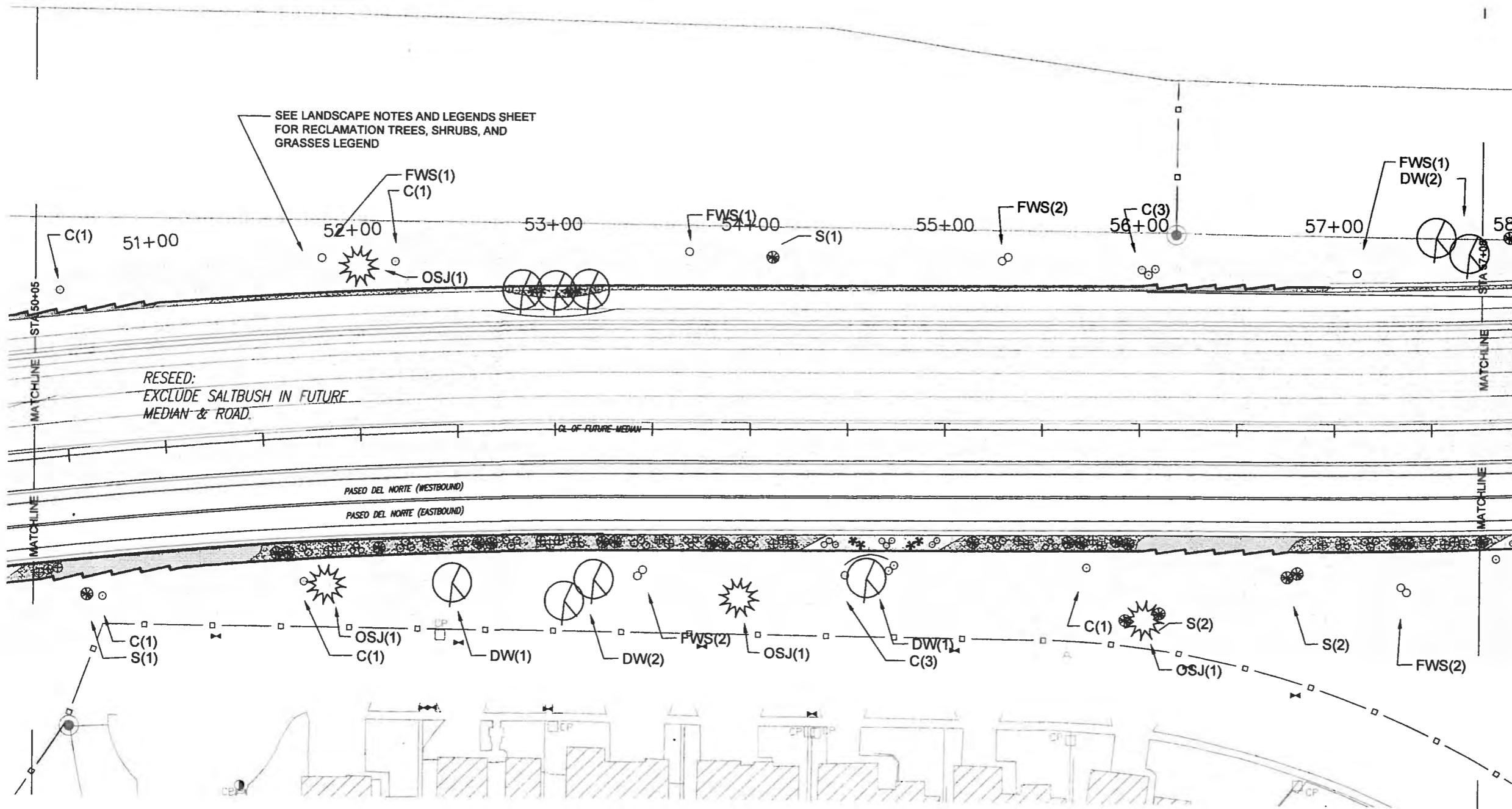
**CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT**

TITLE: PASEO DEL NORTE EXTENSION PLANTING PLAN L-2

Design Review Committee APPROVED DEC 1 2 2005

City Engineer Approval APPROVED DEC 1 2 2005

City Project No. COA 7049 Zone Map No. C-11 Sheet 84 of 116



SEE LANDSCAPE NOTES AND LEGENDS SHEET FOR RECLAMATION TREES, SHRUBS, AND GRASSES LEGEND

RESEED:  
EXCLUDE SALTBUSH IN FUTURE  
MEDIAN & ROAD.

**PLANT LEGEND**

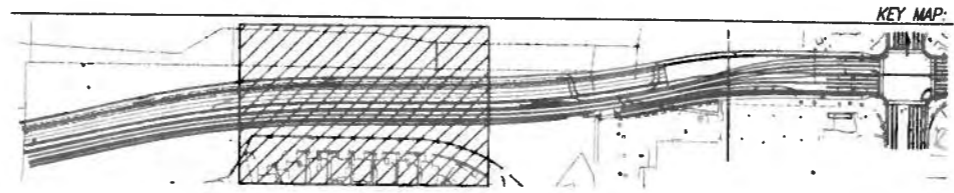
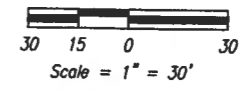
FOR COMPLETE PLANT LEGEND, SEE LANDSCAPE NOTES AND LEGENDS SHEET

Symbol	Botanical Name	Common Name
	<i>Chilopsis linearis</i>	DESERT WILLOW
	<i>Juniperus monosperma</i>	ONE SEED JUNIPER
	<i>Yucca elata</i>	SOAP TREE YUCCA
	<i>Oryzopsis hymenoides</i>	INDIAN RICEGRASS
	<i>Sphaeralcea spp.</i>	GLOBE MALLOW
	<i>Dasyliion wheeleri</i>	SOTOL
	<i>Chrysothamnus depressus</i>	DWARF CHAMISA
	<i>Artemisia filifolia</i>	SAND SAGE
	<i>Atriplex confertifolia</i>	SHADESCALE
	SG <i>Bouteloua curtipendula</i>	SIDEQATS GRAMA

**MATERIALS LEGEND**

FOR COMPLETE MATERIALS LEGEND, SEE LANDSCAPE NOTES AND LEGENDS SHEET

Symbol	Name
	CRUSHER FINES : PLUM ROSE
	BASALT COBBLE : 2" -8" EXISTING OBTAINED ON-SITE
	GRAVEL : 1" CRUSHED PLUM ROSE
	FRACTURED CONCRETE : DARK WALNUT COLOR (CS-14) LITHOCHROME CHEMSTAIN FINISH SCOFIELD SYSTEMS, www.scofield.com
	NATIVE GRASS SEEDING



**AS BUILT INFORMATION**

CONTRACTOR	DATE
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE
RECORDED BY	DATE
MICRO-FILM INFORMATION	DATE

**BENCH MARKS**

NO.	BY	DATE



**REVISIONS**

NO.	DATE	REMARKS	BY

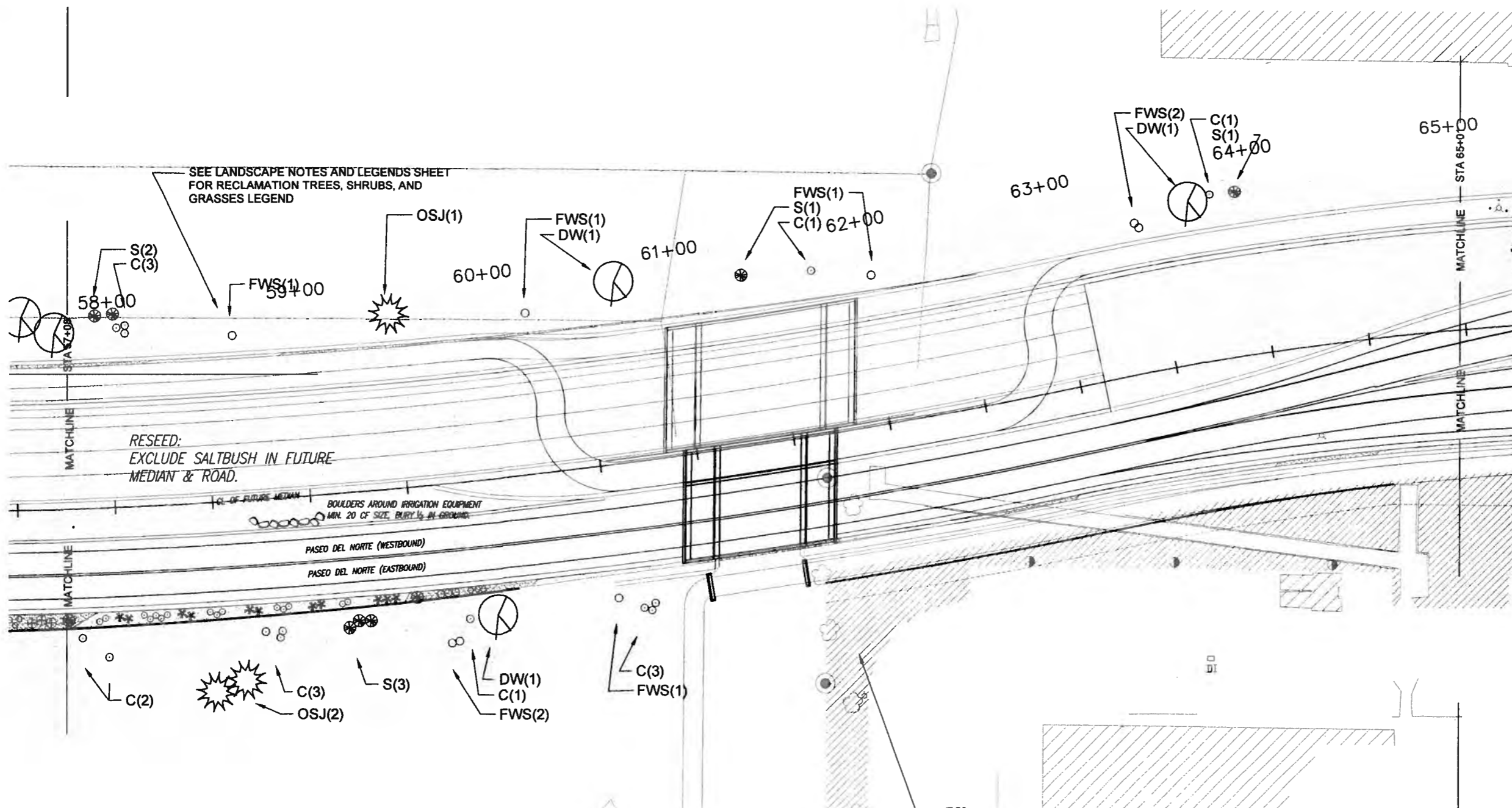
DESIGNED BY TAG DATE 11.16.05  
DRAWN BY AML DATE 11.16.05  
CHECKED BY TAG DATE 11.16.05

**CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT**

TITLE: **PASEO DEL NORTE EXTENSION PLANTING PLAN** L-3

Design Review Committee: **APPROVE** DEC 1 2 2005  
City Engineer Approval: **APPROVE** DEC 1 2 2005  
CITY ENGINEER

City Project No. **COA 7049** Zone Map No. **C-11** Sheet **85 of 116**



SEE LANDSCAPE NOTES AND LEGENDS SHEET FOR RECLAMATION TREES, SHRUBS, AND GRASSES LEGEND

RESEED:  
EXCLUDE SALT BUSH IN FUTURE  
MEDIAN & ROAD.

BOULDERS AROUND IRRIGATION EQUIPMENT  
MIN. 20" CF SIZE, BURY 1/2" IN GROUND

CONTRACTOR SHALL MAINTAIN EXISTING LANDSCAPE THROUGHOUT THE PROJECT. CONTRACTOR SHALL REPAIR AND REPLACE EXISTING LANDSCAPE AND IRRIGATION TO ITS ORIGINAL CONDITION AT SMITH'S, CIRCLE K & McDONALDS. CONTRACTOR SHALL ADJUST EXISTING LANDSCAPE AND IRRIGATION TO FIT PROPOSED ROAD AND TRAIL ALIGNMENT. ALL WORK SHALL BE INCIDENTAL TO THE CONTRACT. CONTRACTOR SHALL PROVIDE PHOTOS AND/OR VIDEO OF ALL EXISTING LANDSCAPE TO C.O.A. PROJECT MANAGER PRIOR TO CONSTRUCTION.

**PLANT LEGEND**

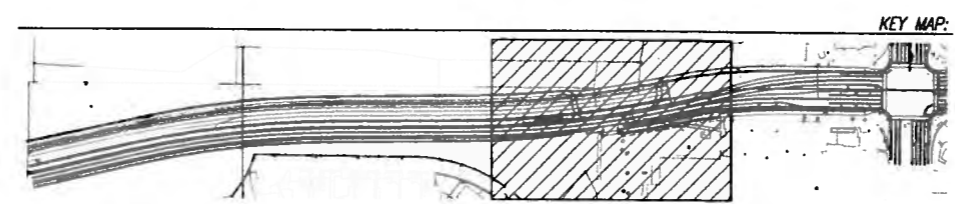
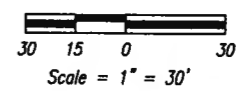
FOR COMPLETE PLANT LEGEND, SEE LANDSCAPE NOTES AND LEGENDS SHEET

Symbol	Botanical Name	Common Name
	<i>Chilopsis linearis</i>	DESERT WILLOW
	<i>Juniperus monosperma</i>	ONE SEED JUNIPER
	<i>Yucca elata</i>	SOAP TREE YUCCA
	<i>Oryzopsis hymenoides</i>	INDIAN RICEGRASS
	<i>Sphaeralcea spp.</i>	GLOBE MALLOW
	<i>Dasyliirion wheeleri</i>	SOTOL
	<i>Chrysothamnus depressus</i>	DWARF CHAMISA
	<i>Artemisia filifolia</i>	SAND SAGE
	<i>Atriplex confertifolia</i>	SHADESCALE
	<i>Bouteloua curtipendula</i>	SIDECATS GRAMA

**MATERIALS LEGEND**

FOR COMPLETE MATERIALS LEGEND, SEE LANDSCAPE NOTES AND LEGENDS SHEET

Symbol	Name
	CRUSHER FINES : PLUM ROSE
	BASALT COBBLE : 2" - 8" EXISTING OBTAINED ON-SITE
	GRAVEL : 1" CRUSHED PLUM ROSE
	FRACTURED CONCRETE : DARK WALNUT COLOR (CS-14) LITHOCHROME CHEMSTAIN FINISH SCOFIELD SYSTEMS, www.scofield.com
	NATIVE GRASS SEEDING



AS BUILT INFORMATION

CONTRACTOR	DATE	REVISIONS	DATE	REVISIONS	DATE
DESIGNED BY	DATE	REVISIONS	DATE	REVISIONS	DATE
DRAWN BY	DATE	REVISIONS	DATE	REVISIONS	DATE
CHECKED BY	DATE	REVISIONS	DATE	REVISIONS	DATE
APPROVED BY	DATE	REVISIONS	DATE	REVISIONS	DATE
RECORDED BY	DATE	REVISIONS	DATE	REVISIONS	DATE

BENCH MARKS

SURVEY INFORMATION

NO.	FIELD NOTES	BY	DATE

ENGINEER'S SEAL



REVISIONS

NO.	DATE	REMARKS	BY	DATE

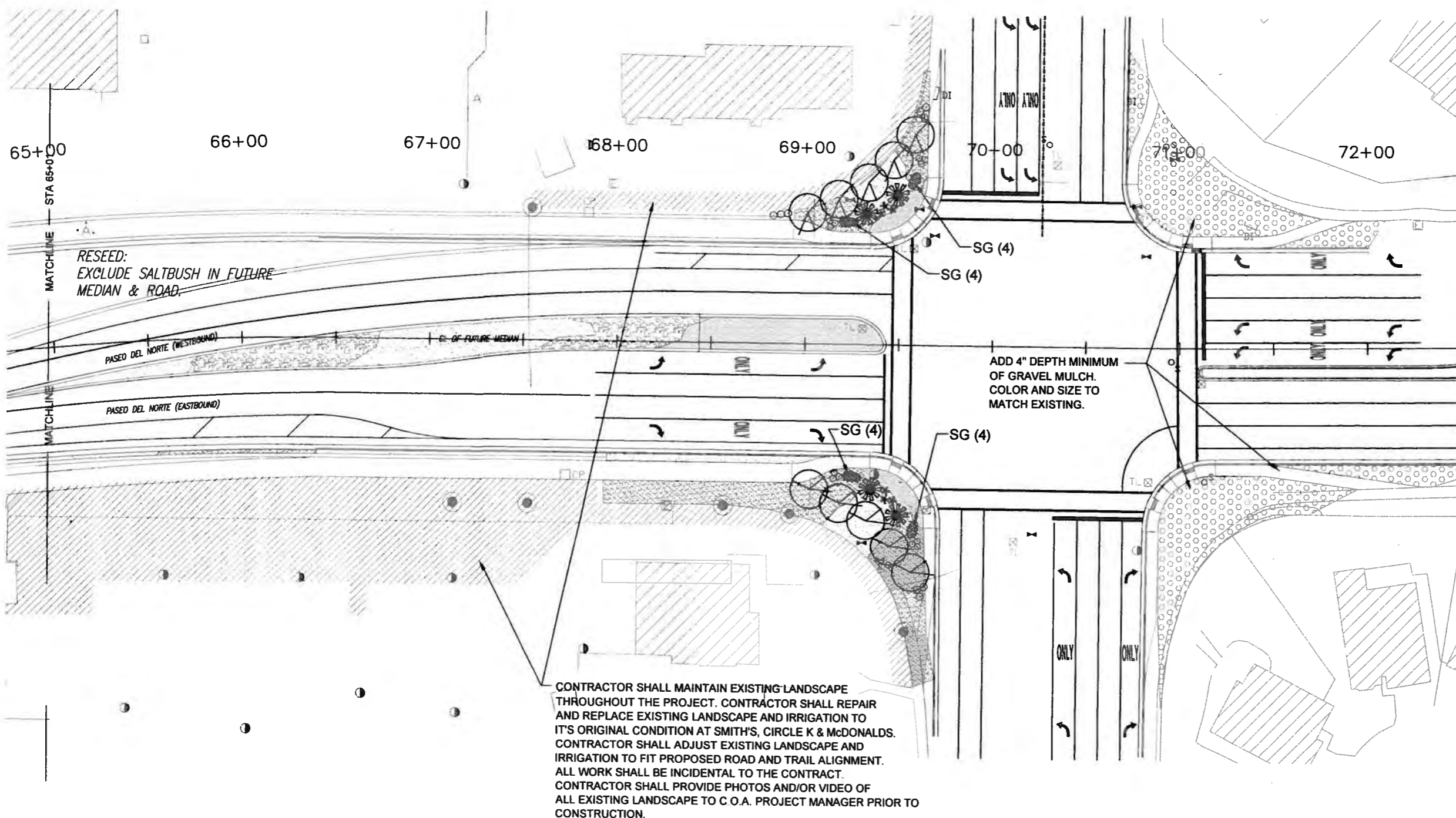
**CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT**

TITLE: **PASEO DEL NORTE EXTENSION PLANTING PLAN**

City Project No. **COA 7049** Zone Map No. **C-11** Sheet **86 of 116**

Design Review Committee: **APPROVED DEC 1 2 2005**

City Engineer Approval: **APPROVED DEC 1 2 2005**



RESEED:  
EXCLUDE SALTBUSH IN FUTURE  
MEDIAN & ROAD.

CONTRACTOR SHALL MAINTAIN EXISTING LANDSCAPE THROUGHOUT THE PROJECT. CONTRACTOR SHALL REPAIR AND REPLACE EXISTING LANDSCAPE AND IRRIGATION TO IT'S ORIGINAL CONDITION AT SMITH'S, CIRCLE K & McDONALDS. CONTRACTOR SHALL ADJUST EXISTING LANDSCAPE AND IRRIGATION TO FIT PROPOSED ROAD AND TRAIL ALIGNMENT. ALL WORK SHALL BE INCIDENTAL TO THE CONTRACT. CONTRACTOR SHALL PROVIDE PHOTOS AND/OR VIDEO OF ALL EXISTING LANDSCAPE TO C.O.A. PROJECT MANAGER PRIOR TO CONSTRUCTION.

**PLANT LEGEND**

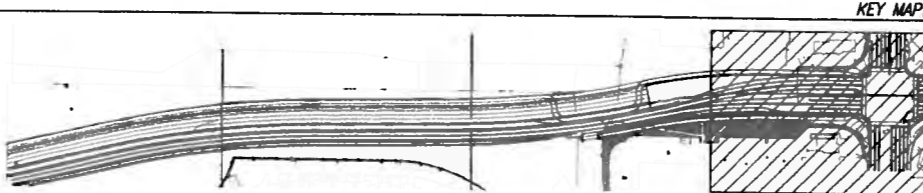
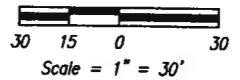
FOR COMPLETE PLANT LEGEND, SEE LANDSCAPE NOTES AND LEGENDS SHEET

Symbol	Botanical Name	Common Name
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	<i>Juniperus monosperma</i>	ONE SEED JUNIPER
	<i>Yucca elata</i>	SOAP TREE YUCCA
	<i>Oryzopsis hymenoides</i>	INDIAN RICEGRASS
	<i>Sphaeralcea spp.</i>	GLOBE MALLOW
	<i>Dasyliion wheeleri</i>	SOTOL
	<i>Chrysothamnus depressus</i>	DWARF CHAMISA
	<i>Artemisia filifolia</i>	SAND SAGE
	<i>Atriplex confertifolia</i>	SHADESCALE
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**MATERIALS LEGEND**

FOR COMPLETE MATERIALS LEGEND, SEE LANDSCAPE NOTES AND LEGENDS SHEET

Symbol	Name
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AS BUILT INFORMATI	
CONTRACTOR	DATE
DESIGNED BY	DATE
REVISIONS BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
RECORDED BY	DATE
MICRO-FILM INFORMATI	
DATE	NO.

BENCH MARKS

SURVEY INFORMATION

NO.	FIELD NOTES	BY	DATE

ENGINEER'S SEAL



REVISIONS

NO.	DATE	REMARKS	BY

**CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT**

TITLE: **PASEO DEL NORTE EXTENSION  
PLANTING PLAN** L-5

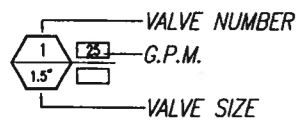
Design Review Committee  DEC 1 9 2005 DESIGN REVIEW COMMITTEE	City Engineer Approval  DEC 1 9 2005 CITY ENGINEER
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City Project No. **COA 7049** Zone Map No. **C-11** Sheet **87** of **116**

IRRIGATION NOTES

- ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE ENGINEER.
- THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
- THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
- THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE ENGINEER.
- INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
- ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO THE LAST RCV ON EACH AND EVERY LEG OF MAIN LINE. LABEL SPARE WIRES AT BOTH ENDS.
- ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
- ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS.
- ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
- THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURERS SPECIFICATIONS.
- MANUAL DRAIN VALVES SHALL BE INSTALLED AT ALL LOW POINTS OF MAINLINE PIPING, OR AT ANY OTHER POINTS THAT MAY BE INDICATED ON THE IRRIGATION SYSTEM PLANS PER CITY OF ALBUQUERQUE.
- FOR A PERIOD OF TWO YEARS FROM FINAL ACCEPTANCE OF THE SYSTEM, THE CONTRACTOR WILL PROMPTLY FURNISH AND INSTALL, WITHOUT COST TO THE OWNER, ANY AND ALL PARTS OR MATERIALS WHICH PROVE DEFECTIVE IN MATERIAL OR WORKMANSHIP. ALL DAMAGE DUE TO IRRIGATION SYSTEM LINE BREAKS CAUSED BY DEFECTIVE MATERIAL OR WORKMANSHIP SHALL BE REPAIRED AND BROUGHT TO ORIGINAL CONDITION BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. THE CONTRACTOR SHALL COMPLETE ALL REPAIRS WITHIN 24 HOURS OF RECEIPT OF NOTIFICATION FROM THE OWNER OF SYSTEM FAILURE.
- MAINTENANCE OF THE SYSTEM SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR A TWO YEAR PERIOD FROM THE FINAL ACCEPTANCE OF THE SYSTEM.
- FOR A PERIOD OF TWO YEARS FROM FINAL ACCEPTANCE OF SYSTEM, THE CONTRACTOR SHALL REPAIR ANY SETTLEMENT OF THE TRENCHES BY ONE OF THE FOLLOWING METHODS AS DIRECTED BY THE ENGINEER AND THE OWNER.

NOTE:  
CONTRACTOR IS RESPONSIBLE FOR THE COST OF PROVIDING THE ELECTRICAL POWER SOURCE AND ALL COORDINATION WITH PNM. THIS WORK SHALL BE INCIDENTAL TO THE COMPLETION OF THE IRRIGATION SYSTEM-COMplete IN PLACE.



SYMBOL

MANUFACT.	MODEL NO. / DESCRIPTION	GPM	PSI	RADIUS	DETAIL	COA STANDARD/
RAIN BIRD	1401 SERIES FLOOD BUBBLER INSTALLED WITH A PA-BS SHRUB ADAPTER ON RISER, EACH SYMBOL REPRESENTS ONE BUBBLER PER SHRUB	.25	30	N/A	COA	
RAIN BIRD	1402 SERIES FLOOD BUBBLER INSTALLED WITH A PA-BS SHRUB ADAPTER ON RISER, EACH SYMBOL REPRESENTS THREE BUBBLERS PER TREE PLACED ADJACENT TO ROOTBALL ON OPPOSITE SIDES OF TREE TYPICAL	.50 (1.0)	30	N/A	COA	
P.O.C.	2" DOMESTIC WATER METER WITH A 2" SERVICE LINE, VERIFY SIZE, LOCATION, AND STATIC WATER PRESSURE IN FIELD 825YA SERIES,				COA	
P.O.C.	1" DOMESTIC WATER METER WITH A 1" SERVICE LINE, VERIFY SIZE, LOCATION,				COA	
FEBCO	1 1/2" R/P BACKFLOW PREVENTION ASSEMBLY W/ MODEL FEBCO 650 1 1/2" WYE STRAINER AND WITH INSULATED HOT ROCK ENCLOSURE.				COA	
FEBCO	1" R/P BACKFLOW PREVENTION ASSEMBLY W/ MODEL FEBCO 650 1" WYE STRAINER AND WITH INSULATED HOT ROCK ENCLOSURE.				COA	
AS APPROVED	BOOSTER PUMP - WATERTRONICS WATER MAX MODEL #LSTBV-3-240-1-50-25 HORIZONTAL CENTRIFUGAL PUMPSTATION DESIGNED TO DELIVER 50 GPM @ 25 PSI BOOST.				COA	
RAINBIRD	MODEL PEB 1 1/2" MASTER CONTROL VALVE				COA	
RAINBIRD	MODEL PEB 1" MASTER CONTROL VALVE				COA	
AS APPROVED	1 1/2" MASTER METER FLOW METER PER CITY STANDARD				COA	
AS APPROVED	1" MASTER METER FLOW METER PER CITY STANDARD				COA	
NIBCO	T-113 GATE VALVE, LINE SIZE, WITH BRONZE WHEEL HANDLE UP TO 2" AND BRONZE CROSS HANDLE OVER 2" IN SIZE				COA	
RAIN BIRD	33 DLRC (3/4") QUICK COUPLER VALVE				COA	
RAIN BIRD	PEB SERIES (1" OR 1 1/2") PLASTIC REMOTE CONTROL VALVE, SIZE AS SHOWN				COA	
MOTOROLA	IS-S4A-RN-SS, 32 STATION AC SCORPIO CONTROLLER WITH STAINLESS STEEL ENCLOSURE				N/A	
N/A	120 VOLT ELECTRICAL POWER, PROVIDED BY ELECTRICIAN, VERIFY ACTUAL LOCATION IN FIELD (FOR CONTROLLER AND HEAT SOURCE)				N/A	
N/A	230 VOLT (SINGLE/THREE) PHASE ELECTRICAL POWER FOR PUMP SYSTEM, PROVIDED BY ELECTRICIAN, VERIFY ACTUAL LOCATION IN FIELD				N/A	
AS APPROVED	PVC PIPE 3/4" - 3" SCH. 40 AS LATERAL LINES				D	
AS APPROVED	PVC PIPE 2" - 2 1/2" ALL MAINLINE TO BE SCH. 40 PVC WITH SOLVENT WELD JOINTS				D	
AS APPROVED	PVC PIPE CL. 200 AS SLEEVING, TWICE THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED PLACE BELOW ALL PAVING, HARDSCAPE, ETC. AND AS DIRECTED BY ENGINEER				E	
NO SYMBOL	AS APPROVED IRRIGATION CONTROL WIRE #12UF AWG DIRECT BURIAL (U.L. APPROVED)				D,E,F	
NO SYMBOL	3M DBY DIRECT BURIAL WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE CONNECTIONS				F	

POC NUMBER	POC SIZE	POC ELEVATION	STATIC WATER PRESSURE (PSI)
1	1 1/2"	5126	75
HYDRAULIC GRADE LINE			
ELEVATION DIFFERENCE			
REMOTE CONTROL VALVE #	11	REMOTE CONTROL VALVE SIZE	1 1/2"
R.C.V. DEMAND (GPM)	27	TOTAL DEMAND (GPM)	27
RCV. ELEVATION	5176	STATIC PRESSURE AT R.C.V.	53
SIZE	DESCRIPTION	PSI LOSS	
2"	SERVICE LINE	1	0.3
1 1/2"	WATER METER	2	1.6
1 1/2"	BACKFLOW PREVENTER	3	12.0
2"	ISOLATION VALVES	4	0.5
1 1/2"	MASTER CONTROL VALVE	5	3.8
2 1/2"	1370 FEET OF MAINLINE TYPE CL 315	6	3.5
	FEET OF MAINLINE TYPE	7	0
1 1/2"	REMOTE CONTROL VALVE	8	3.8
10%	LATERAL LINE LOSS	9	3.0
10%	FITTING LOSS	10	2.9
74	ELEVATION CHANGE (P.O.C. TO HIGHEST HEAD)	11	32.0
TOTAL SYSTEM PRESSURE LOSS (SUM OF #1 THRU #11)		12	63.4
PRESSURE REQUIRED AT HEAD		13	30.0
TOTAL PRESSURE REQUIRED (SUM OF #12 AND #13)		14	93.4
STATIC WATER PRESSURE (FROM ABOVE)		15	75.0
RESIDUAL PRESSURE (SUBTRACT # 14 FROM # 15)		16	-18.4
SET PRV OR MCV AT (# 14 PLUS 10 PSI)		17	-
PRESSURE BOOST, IF REQUIRED (#14-#15 + 20 PSI)		18	40

IRRIGATION MATERIAL LEGEND

GPM	PSI	RADIUS	DETAIL	COA STANDARD/
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DATE	DATE	DATE	DATE	DATE	DATE
AS BUILT	INFORMATIC	REVISIONS	BY	DATE	DATE
DESIGNED BY	DATE	REVISIONS	BY	DATE	DATE
DRAWN BY	DATE	REVISIONS	BY	DATE	DATE
CHECKED BY	DATE	REVISIONS	BY	DATE	DATE
APPROVED BY	DATE	REVISIONS	BY	DATE	DATE
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BENCH MARKS

SURVEY INFORMATION

ENGINEER'S SEAL

NO.	DATE	REVISIONS	BY	DATE	DATE	DATE
		DESIGN		11.16.05	11.16.05	11.16.05

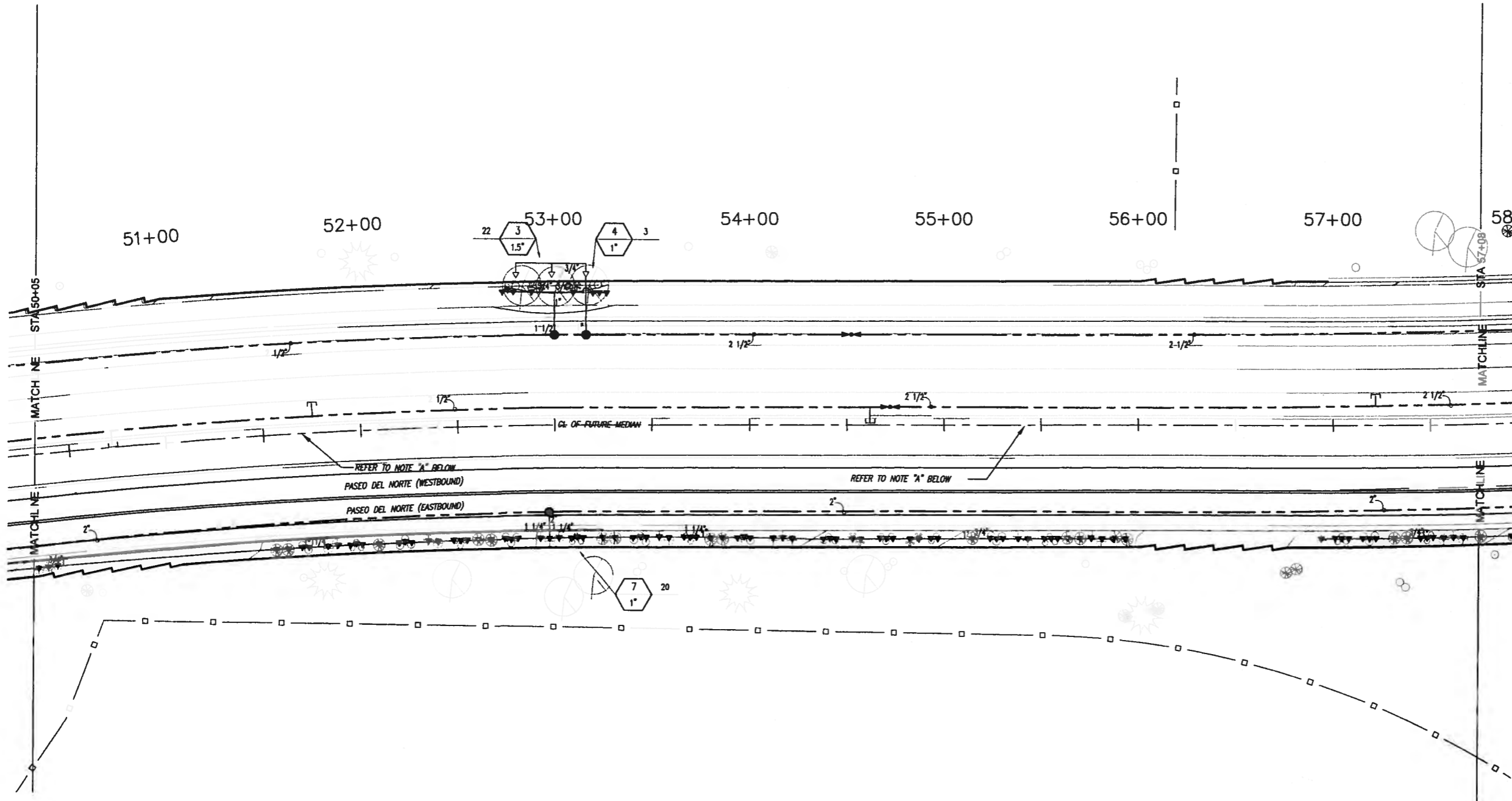


CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT

TITLE: PASEO DEL NORTE EXTENSION IRRIGATION DETAILS L-6

Design Review Committee	City Engineer Approval	Ms./Bsr./Fr.	Ms./Bsr./Fr.
APPROVED DEC 1 8 2005	APPROVED DEC 1 8 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER	Least Design Updates	
City Project No. COA 7049	Zone Map No. C-11	Sheet 88	of 116





**NOTE A:**  
ALL MEDIAN IRRIGATION EQUIPMENT SHALL BE INSTALLED WITHIN 4' OF THE FUTURE MEDIAN CENTER LINE. ALL IRRIGATION EQUIPMENT SHOWN FURTHER THAN 4' FROM THE FUTURE MEDIAN CENTER LINE IS FOR CLARITY ONLY.

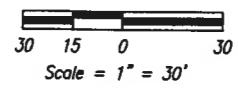
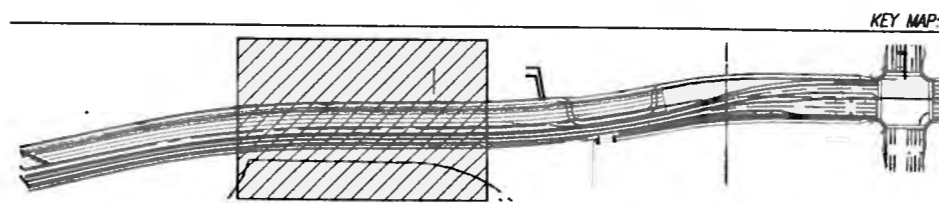
**NOTE B:**  
MAINLINE SHOWN WITHIN PAVING FOR CLARITY ONLY, ACTUAL MAINLINE LOCATION TO BE WITHIN 3' OF THE FUTURE MEDIAN CENTER LINE.

**NOTE C:**  
CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, ETC. VERIFY ALL HEAD LAYOUT WITH ENGINEER PRIOR TO COMMENCING WORK.

**NOTE D:**  
BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN PAVING FOR CLARITY ONLY, ACTUAL LOCATION TO BE WITHIN PLANTER. BUBBLERS SHALL BE ALIGNED WITH TREES AND SHRUBS AND AS DIRECTED BY ENGINEER. CONFIRM ALL LAYOUT IN FIELD WITH ENGINEER PRIOR TO COMMENCING WORK.

**NOTE E:**  
SEE SHEET L-6 FOR IRRIGATION MATERIALS LEGEND.

**NOTE F:**  
CONTRACTOR SHALL EXTEND 8 ADDITIONAL CONTROL VALVE WIRES TO THE MAINLINE STUB OUT. THE CONTRACTOR SHALL ALSO EXTEND AN EXTRA MASTER METER COMMUNICATION WIRE AND MASTER VALVE WIRE TO THE MAINLINE STUB OUT.



AS BUILT INFORMATI	
CONTRACTOR	DATE
DESIGNED BY	DATE
CHECKED BY	DATE
RECORDED BY	DATE

BENCH MARKS

SURVEY INFORMATION	
FIELD NOTES	DATE



NO.	DATE	REVISIONS	BY

**CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT**

**TITLE: PASEO DEL NORTE EXTENSION IRRIGATION PLAN**

**Sheet No. L-8**

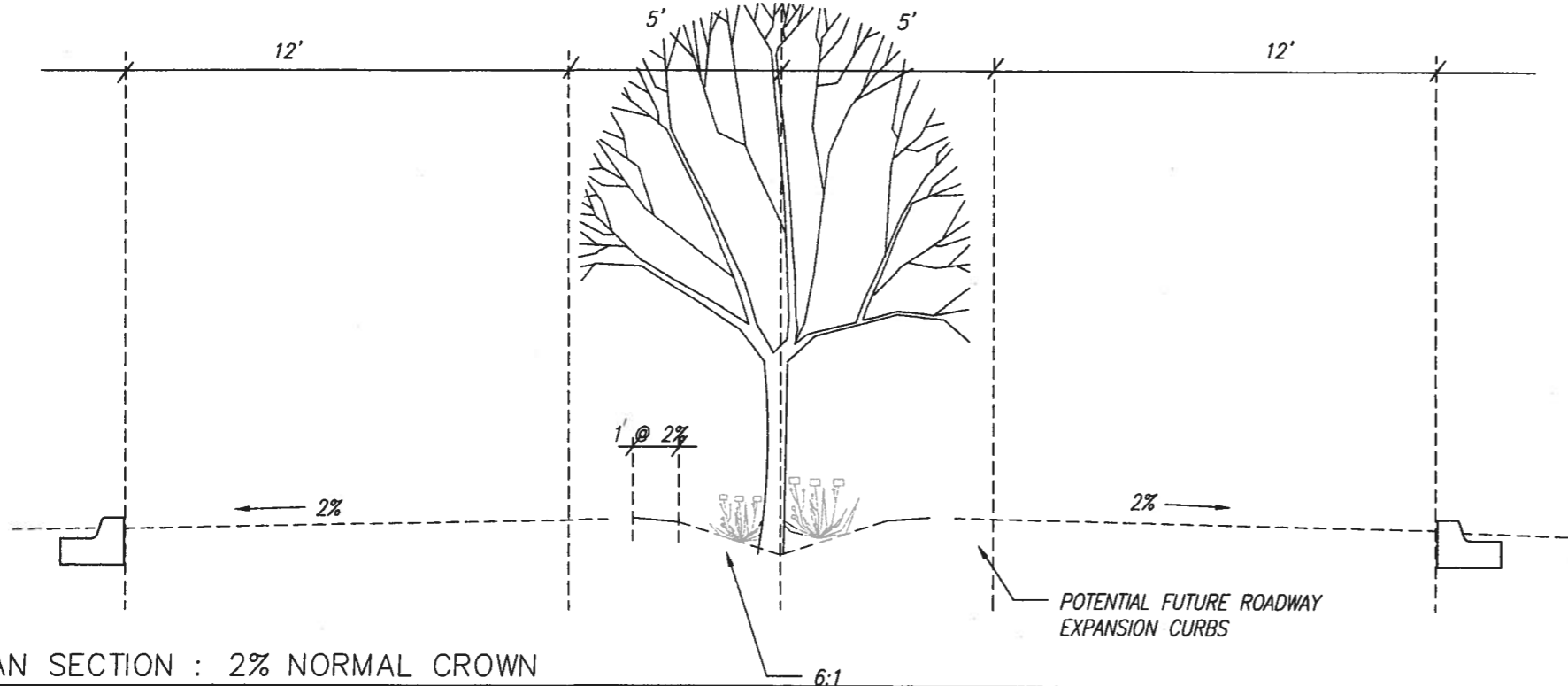
City Project No. **COA 7049**      Zone Map No. **C-11**      Sheet **90** OF **116**

DESIGN REVIEW COMMITTEE: DEC 18 2005

CITY ENGINEER: [Signature]

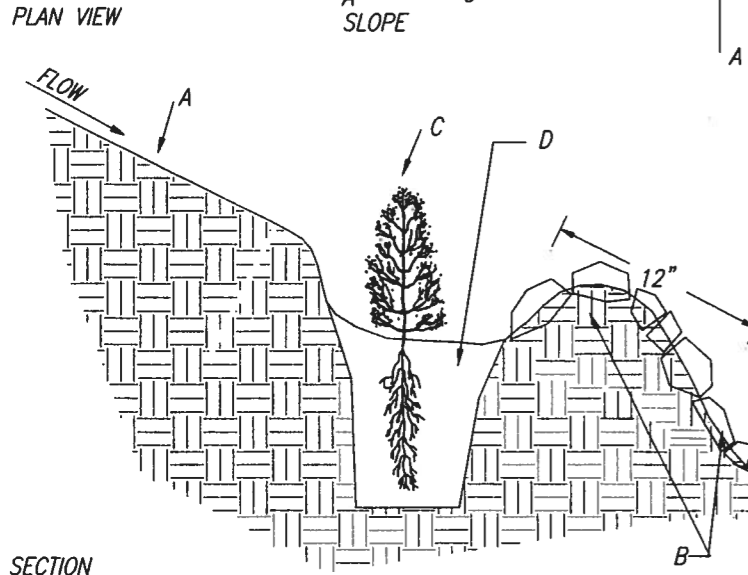
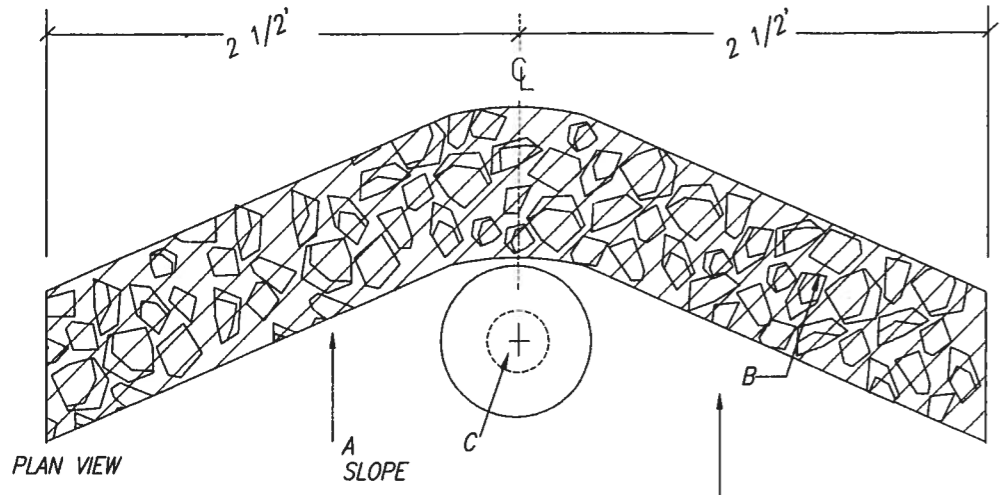






**(A) MEDIAN SECTION : 2% NORMAL CROWN**

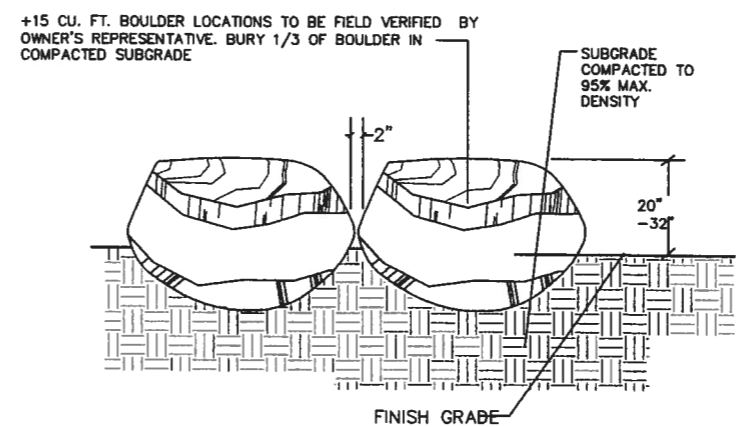
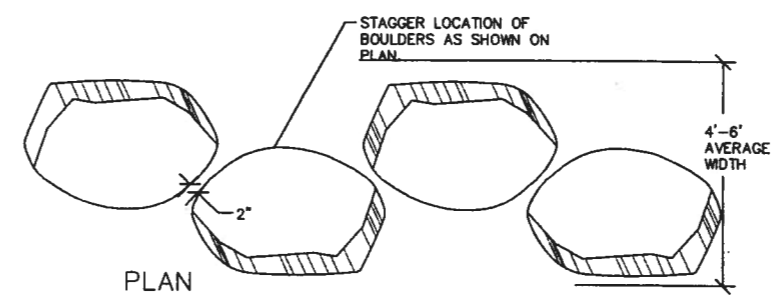
1" = 1/2"



- A CUT/FILL SLOPE
- B 12" WIDE X 6" HIGH EARTHEN BERM LINED WITH BASALT COBBLE AND SMALL BOULDERS
- C PLANT IN RECLAMATION AREA - SEE PLANTING PLAN
- D 2" MIN. DEPTH OF BASALT AGGREGATE MULCH

**(B) TUBE PACK PLANTING DETAIL**

N.T.S.



+15 CU. FT. BOULDER LOCATIONS TO BE FIELD VERIFIED BY OWNER'S REPRESENTATIVE. BURY 1/3 OF BOULDER IN COMPACTED SUBGRADE

**(C) BOULDER PROTECTION**

N.T.S.

AS BUILT INFORMATION	
CONTRACTOR	DATE
DESIGNED BY	DATE
APPROVED BY	DATE
FIELD VERIFICATION BY	DATE
REVISIONS BY	DATE
CHECKED BY	DATE
RECORDED BY	DATE
MICRO-FILM INFORMATION	
NO.	DATE

BENCH MARKS

SURVEY INFORMATION	
NO.	DATE

ENGINEER'S SEAL

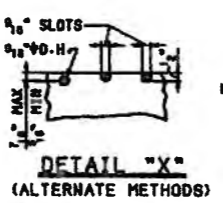
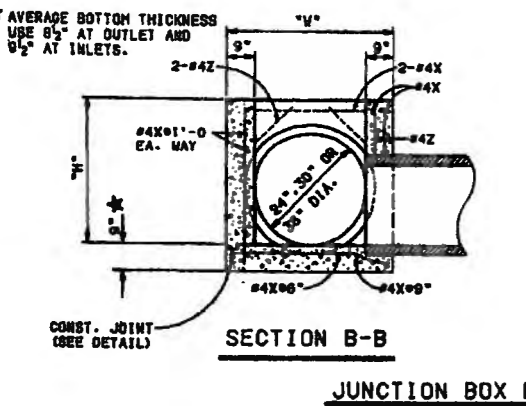
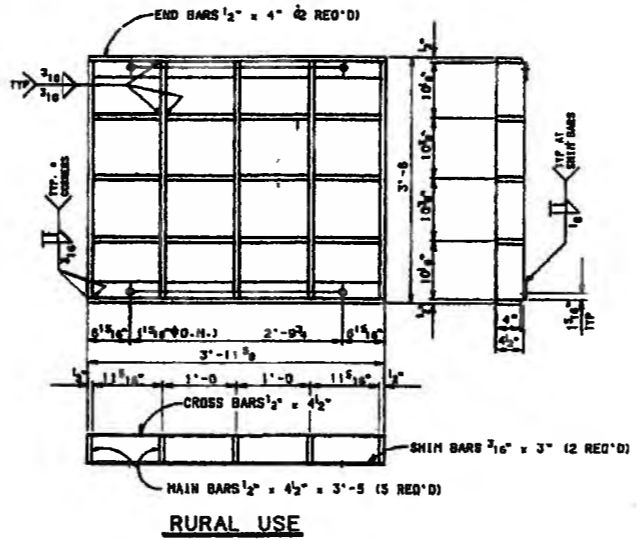
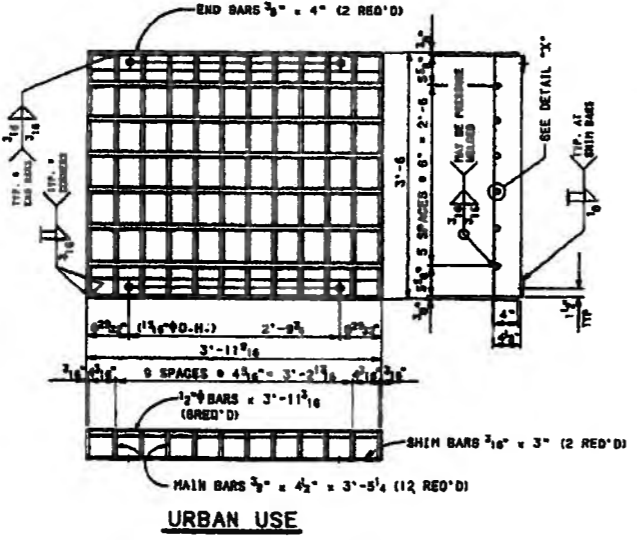
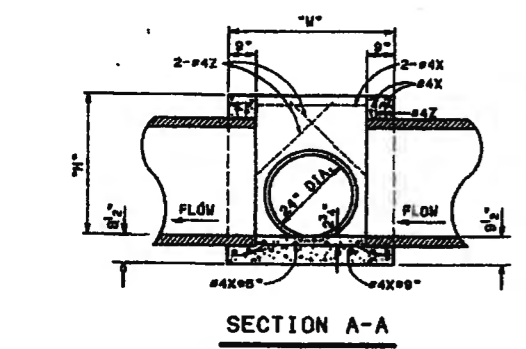
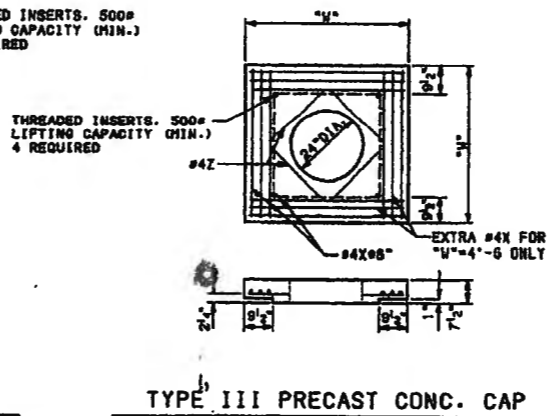
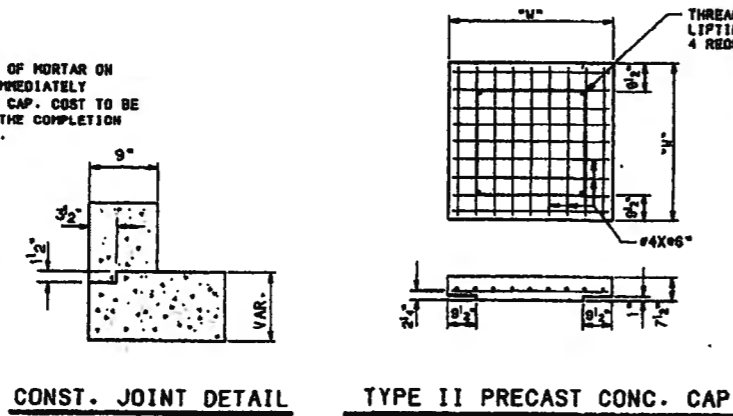
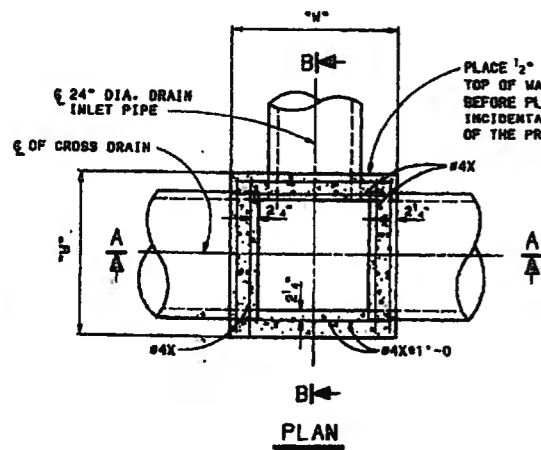


NO.	DATE	REVISIONS	BY	DATE
		DESIGN		11.16.05
				11.16.05



<b>CITY OF ALBUQUERQUE</b>	
<b>PUBLIC WORKS DEPARTMENT</b>	
TITLE: <b>PASEO DEL NORTE EXTENSION</b>	
<b>LANDSCAPE DETAILS</b>	
<b>L-11</b>	
Design <b>APPROVED</b> DEC 1 2 2005 DESIGN REVIEW COMMITTEE	City Engineer Approval <b>APPROVED</b> DEC 1 2 2005 CITY ENGINEER
City Project No. <b>COA 7049</b>	Zone Map No. <b>C-11</b>
Sheet <b>93</b>	of <b>116</b>

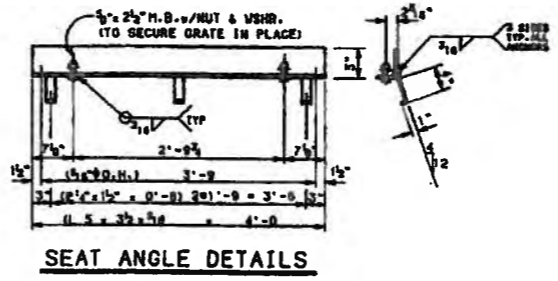




**GRATING DETAILS**

STRUCTURAL STEEL FOR URBAN USE (GRATE AND SEAT ANGLES W/ BOLTS)	STRUCTURAL STEEL FOR RURAL USE (GRATE AND SEAT ANGLES W/ BOLTS)
384#	388#

FOR CONTRACTORS INFORMATION ONLY.



**DESIGN DATA**

DESIGN ACCORDING TO A.A.S.H.T.O. SPECIFICATIONS DATED 1983.

DESIGN STRESSES:  
REINFORCED CONCRETE:  $f_c=1200$  psi,  $f_y=80,000$  psi,  $n=10$ .  
STRUCTURAL STEEL:  $f_c=20,000$  psi,  $f_y=36,000$  psi.

EARTH PRESSURE: 36 lbs./cu.ft. EQUIV. FLUID PRESSURE 2'-0" BURCHARGE.

LIVE LOAD ON URBAN GRATING: ONE 16,000 lbs. WHEEL PLUS 30X IMPACT.

LIVE LOAD ON RURAL GRATING: ONE 16,000 lbs. WHEEL PLUS 30X IMPACT, 35X OVERSTRESS.

**DATA FOR JUNCTION BOX**  
(FOR CONTRACTOR'S INFORMATION ONLY. NOT A BID ITEM)

CROSS DRAIN PIPE DIAMETER	REINFORCING STEEL QUANTITY AND LENGTH		ESTIMATED QUANTITIES		TYPE II PRECAST CONC. CAP		TYPE III PRECAST CONC. CAP	
	"W"	"H"	#4X NO.	#4Z LENGTH	R.C. PIPE	C.M. PIPE	EST. VOL.	EST. VOL.
24"	4'-0"	2'-11"	43	3'-9"	1.43 CU.YD.	1.58 CU.YD.	128#	1373#
30"	4'-0"	3'-6"	43	3'-9"	1.47 CU.YD.	1.65 CU.YD.	128#	1373#
36"	4'-0"	3'-11"	46	4'-3"	1.90 CU.YD.	2.15 CU.YD.	151#	1752#

NOTE: CONCRETE AND REINFORCING STEEL QUANTITIES INCLUDE TYPE II CAP AND DEDUCTIONS FOR CONCRETE INLET PIPE AND CROSSRAIN PIPE.

**CLASS "A" CONCRETE DEDUCTIONS (FOR ONE PIPE)**

PIPE DIAMETER	9" WALL		7 1/2" PRECAST CONC. CAP	
	R.C. PIPE	C.M. PIPE	R.C. PIPE	C.M. PIPE
24"	.138 CU.YD.	.087 CU.YD.	.113 CU.YD.	.073 CU.YD.
30"	.207 CU.YD.	.136 CU.YD.	-----	-----
36"	.293 CU.YD.	.196 CU.YD.	-----	-----

FOR PIPES SKEWED INTO WALL MULTIPLY DEDUCTION BY THE SECANT OF THE SKEW ANGLE.

- NOTES**
- ALL CONCRETE SHALL BE AS SPECIFIED IN SECTION 101 OF THE COA STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. CHAMFER EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.
  - REINFORCING BARS SHALL CONFORM TO AASHTO SPECIFICATION M-31, GRADE 60. DIMENSIONS REFER TO THE CENTER OF BAR UNLESS OTHERWISE NOTED.
  - STRUCTURAL STEEL SHALL CONFORM TO AASHTO SPECIFICATION 183 AND SHALL BE GIVEN A PROTECTIVE COATING IN CONFORMANCE WITH THE SPECIFICATIONS.
  - THE TYPE OF EPOXY CONCRETE ADHESIVE SHALL BE APPROVED BY THE ENGINEER AND SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS.
  - QUANTITIES SHOWN ARE FOR INFORMATION ONLY.

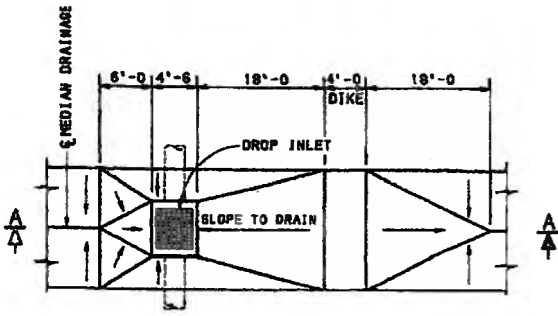
<b>AS BUILT INFORMATION</b>		<b>BENCH MARKS</b>		<b>SURVEY INFORMATION</b>		<b>ENGINEER'S SEAL</b>		<b>REMARKS</b>		<b>DESIGN</b>	
CONTRACTOR	DATE	ACCS 3 1/4" Aluminum Cap stamped "ACCS 1-C11"	DATE	FIELD NO.	BY			NO.	DATE	DESIGNED BY	DATE
STARTED BY	DATE	Geographic Position of Rileyway Dr. & Calle Nortona	DATE	NO.	DATE			CHECKED BY	DATE		
INSPECTOR'S FIELD LABEL BY	DATE	N.M. State Plane Coordinates (Central Zone)	DATE								
APPROVED BY	DATE	X=366,041.88, Y=1,519,125.33	DATE								
APPROVED BY	DATE	Elevation=5272.34, NGVD28, in feet	DATE								
MICRO-FILM INFORMATION	NO.										

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
MISCELLANEOUS DETAILS

DESIGN REVIEW COMMITTEE APPROVAL DEC 1 2 2005	CITY ENGINEER APPROVAL DEC 1 2 2005	NO. / DAY / YR.	NO. / DAY / YR.
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 95 Of 116



PART PLAN

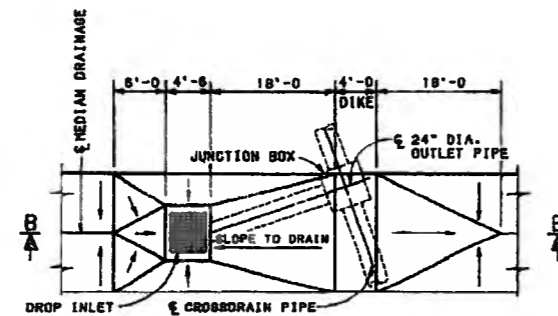


SECTION A-A

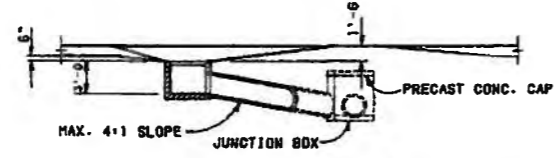
**TYPE I INSTALLATION**

NOTE: IF DROP INLET IS TO SERVE AS MEDIAN DRAIN ONLY AND IS NOT TO BE CONNECTED TO A CROSS DRAINAGE STRUCTURE USE H = 3'-0" AND A 24" DIA. PIPE AT OUTLET SIDE OF DROP INLET ONLY.

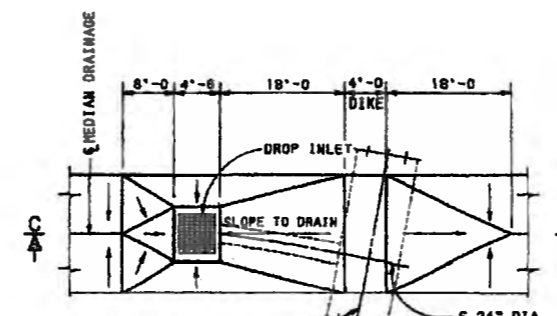
MIN. H = PIPE DIA. + 1'-0"  
MAX. H = 15'-0"



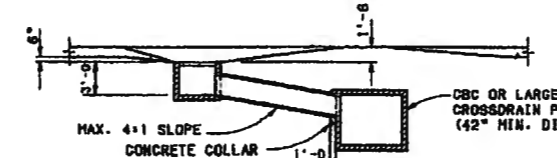
PART PLAN



SECTION B-B

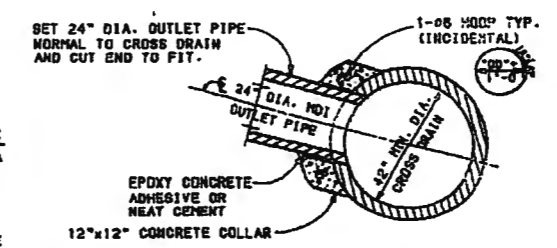


PART PLAN



SECTION C-C

**TYPE II INSTALLATIONS**



PART SECTION CONNECTION TO LARGE CROSS DRAIN PIPE

NOTE: WHEN THE DROP INLET IS CONSTRUCTED IN CONJUNCTION WITH A NEW BOX CULVERT THE 24" DRAIN OUTLET PIPE SHALL BE SET IN PLACE AND THE CULVERT WALL FORMED AROUND IT. IF THE DROP INLET IS TO BE USED WITH AN EXISTING BOX CULVERT OR PIPE CULVERT A HOLE SHALL BE BROKEN THRU THE WALL AND ALL EXPOSED REINFORCING STEEL CUT OFF. CEMENT PIPE INTO CULVERT WALL SIMILAR TO THE CONNECTION SHOWN ABOVE.

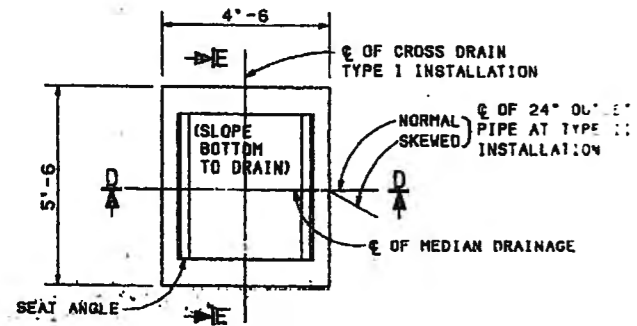
#4A	"H" PLUS 6"	REQ'D. 14
#4B	4'-3"	11+2H $\Delta$
#4C	5'-3"	5+2H $\Delta$

**TYPE I INSTALLATION**

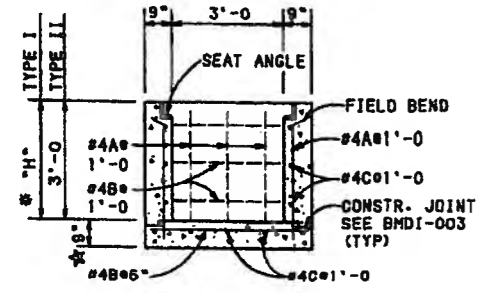
#4A	3'-6"	REQ'D. 14
#4B	4'-3"	17
#4C	5'-3"	11

**TYPE II INSTALLATION REINFORCING STEEL DETAILS**

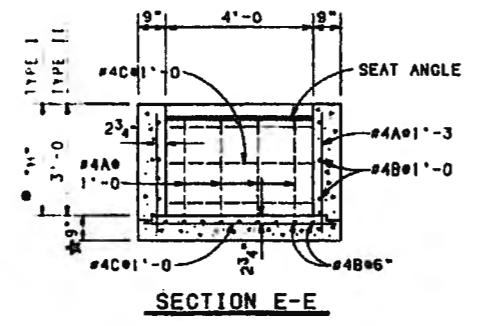
$\Delta$ NOTE: ROUND OFF "H" TO THE NEAREST FOOT. USE SHORTER LENGTH WHEN DIMENSION FALLS ON 6".



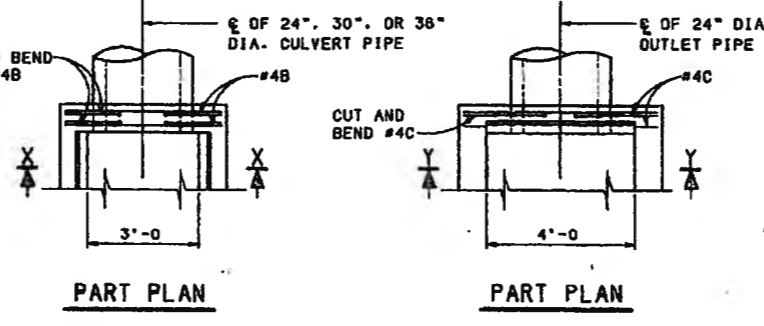
PLAN



SECTION D-D



SECTION E-E



PART PLAN

PART PLAN

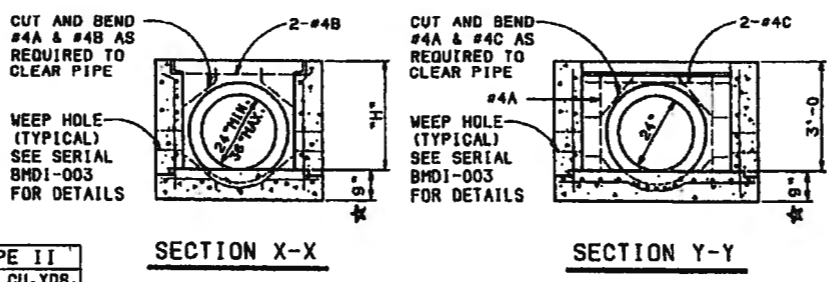
\* AVERAGE BOTTOM THICKNESS USE 8 1/2" AT OUTLET AND 9 1/2" AT HIGH SIDE.  
\* "H" = DIA. OF PIPE + 1'-0" MINIMUM, AND 15'-0" MAXIMUM.

**ESTIMATED QUANTITIES**

(FOR CONTRACTOR'S INFORMATION ONLY, NOT A BID ITEM)

	TYPE I	TYPE II
CLASS "A" CONCRETE	.652+.4722"H" CU.YDS.	2.07 CU.YDS.
REINFORCING STEEL	53.44+22.04"H" LBS.	120 LBS.
STRUCTURAL STEEL (URBAN)	384 LBS.	384 LBS.
STRUCTURAL STEEL (RURAL)	389 LBS.	389 LBS.

NOTE: TO OBTAIN CLASS "A" CONCRETE QUANTITY, USE VALUE TABULATED ABOVE AND DEDUCT THE AMOUNT SHOWN ON BMDI-003 FOR EACH PIPE OPENING.



SECTION X-X

SECTION Y-Y

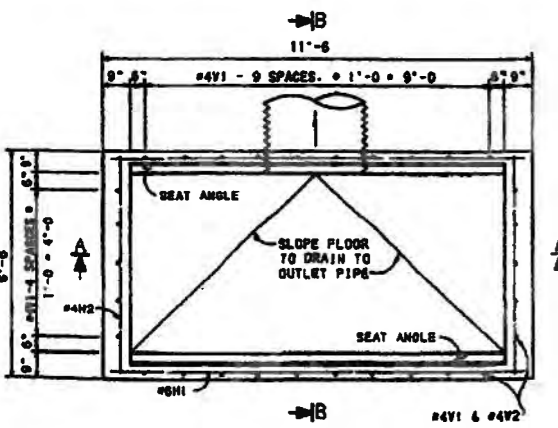
DETAILS OF REINFORCEMENT AROUND PIPE

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	CONTRACTOR	DATE	NO.	DATE	NO.	DATE
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"		Near Intersection of Ridgeway Dr. & Calle Norte					
INSPECTOR'S WORK		Geographic Position (NAD 27), in feet					
VERIFICATION BY		N.M. State Plane Coordinates (Central Zone)					
DATE		X=386,041.86, Y=1,519,125.33					
DATE		Elevation=8272.34 NGVD29, in feet					
DATE							
DATE							

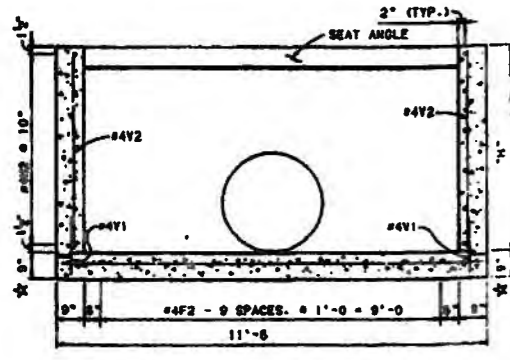
CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
MISCELLANEOUS DETAILS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	NO./DAY/YR.	NO./DAY/YR.
APPROVE DEC 1 8 2005	APPROVE DEC 1 8 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
City Project No. COA 704902	Zone Map No. C - 11	Sheet 96	Of 116



**PLAN**

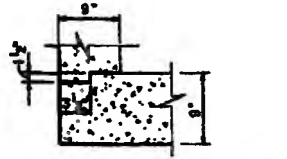


**SECTION A-A**

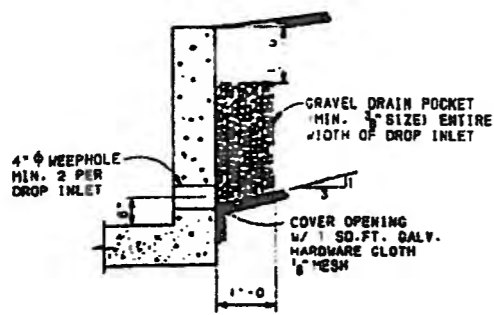
NOTE: FIELD CUT AND BEND REBAR AS REQUIRED TO CLEAR SEAT ANGLES AND PIPE OPENINGS (2" MINIMUM CLEARANCE).

DIAMETERS AND RISES UP TO AND INCLUDING 48"	DIAMETERS AND RISES GREATER THAN 48"
1'-3"	2'-0"

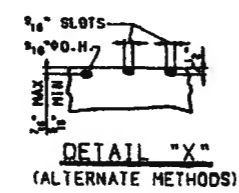
NOTE: IF R.C.P. IS USED, ADD WALL THICKNESS TO DIMENSION "Y".



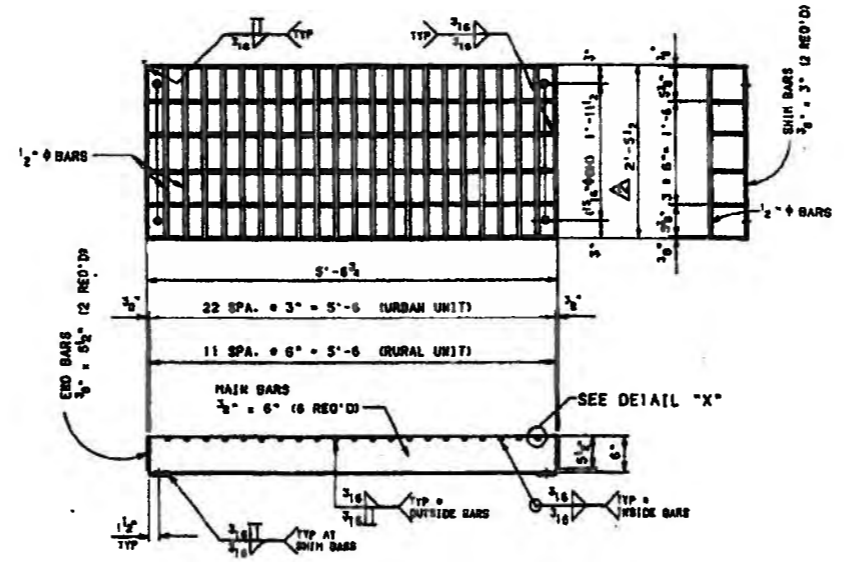
**CONSTRUCTION JOINT DETAIL**



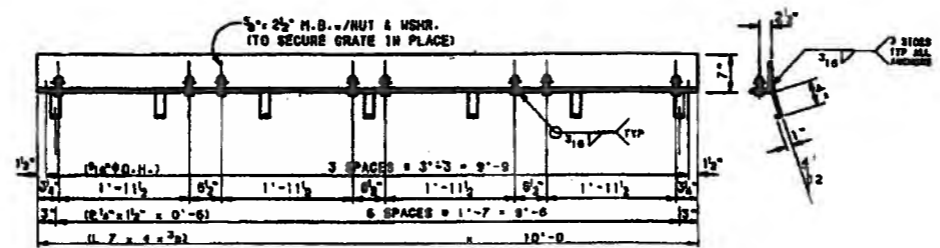
**WEEP HOLE DETAIL**



**DETAIL "X"**  
(ALTERNATE METHODS)



**GRATE DETAILS**  
(4 REQUIRED)



**SEAT ANGLE DETAILS**  
(2 REQUIRED)

MARK	LENGTH	NO. REqd
#4H1	11'-3"	2 @ 2.4" H
#4H2	6'-3"	2 @ 2.4" H
#4V1	1'-9"	30
#4V2	4'-3"	30
#4F1	11'-2"	8
#4F2	6'-3"	10

**REINFORCING BAR SCHEDULE**

\* NOTE: ROUND OFF NUMBER REQUIRED TO THE NEAREST EVEN NUMBER.

**ESTIMATED QUANTITIES**  
(FOR CONTRACTOR'S INFORMATION ONLY, NOT A BID ITEM)

CLASS "A" CONCRETE	1.932 @ 0.917" H" CU. YDS.
REINFORCING STEEL	151.53 @ 70.61" H" LBS.
STRUCTURAL STEEL (URBAN)	1640 LBS.
STRUCTURAL STEEL (RURAL)	1570 LBS.

NOTE: TO OBTAIN CLASS "A" CONCRETE QUANTITY, USE VALUE TABULATED ABOVE AND DEDUCT THE VOLUME OF THE PIPE OPENINGS FROM THE QUANTITY TABULATED.

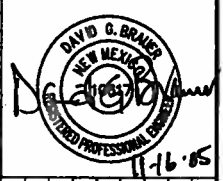
**DESIGN DATA**

DESIGN ACCORDING TO A.A.S.H.T.O. SPECIFICATIONS DATED 1992.  
 DESIGN STRESSES:  
 REINFORCED CONCRETE:  $f_c=1200$  psi,  $F_y=60,000$  psi,  $n=10$ .  
 STRUCTURAL STEEL:  $f_s=20,000$  psi,  $F_y=36,000$  psi.  
 EARTH PRESSURE: 35 lbs./sq.-ft. EQUIV. FLUID PRESSURE 2'-0" SURCHARGE.  
 LIVE LOAD ON GRATING: ONE 16,000 lbs. WHEEL PLUS 30X IMPACT. 1.5X OVERSTRESS.

**NOTES**

- ALL CONCRETE SHALL BE AS SPECIFIED IN SECTION 101 OF THE COA STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. CHAMFER EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.
- REINFORCING BARS SHALL CONFORM TO AASHTO SPECIFICATION M-31, GRADE 60. DIMENSIONS REFER TO THE CENTER OF BAR UNLESS OTHERWISE NOTED.
- STRUCTURAL STEEL SHALL CONFORM TO AASHTO SPECIFICATION 183 AND SHALL BE GIVEN A PROTECTIVE COATING IN CONFORMANCE WITH THE SPECIFICATIONS.
- QUANTITIES SHOWN ARE FOR INFORMATION ONLY.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	MARK	DATE	NO.	BY	NO.	DATE
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"		Near Intersection of Ridgeway Dr. & Calle Noriega					
INSPECTOR'S STAMP		Geographic Position (NAD 27), in feet					
FIELD MARK BY		N.M. State Plane Coordinates (Central Zone)					
DATE		X=366,041.88, Y=1,519,125.33					
DATE		Elevation=5272.34, NVD28, in feet					
DATE							
DATE							

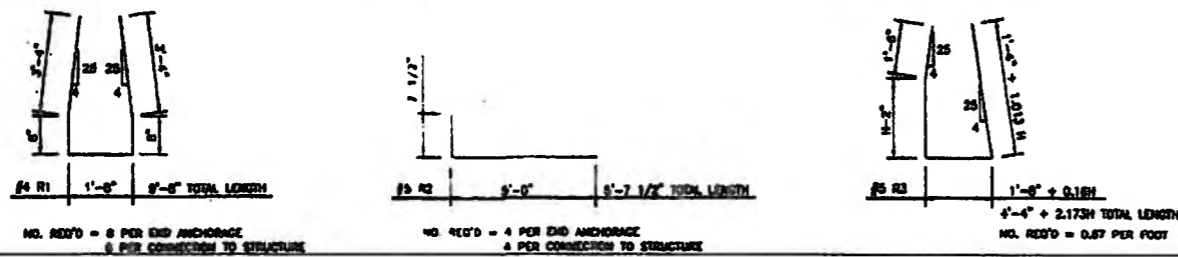
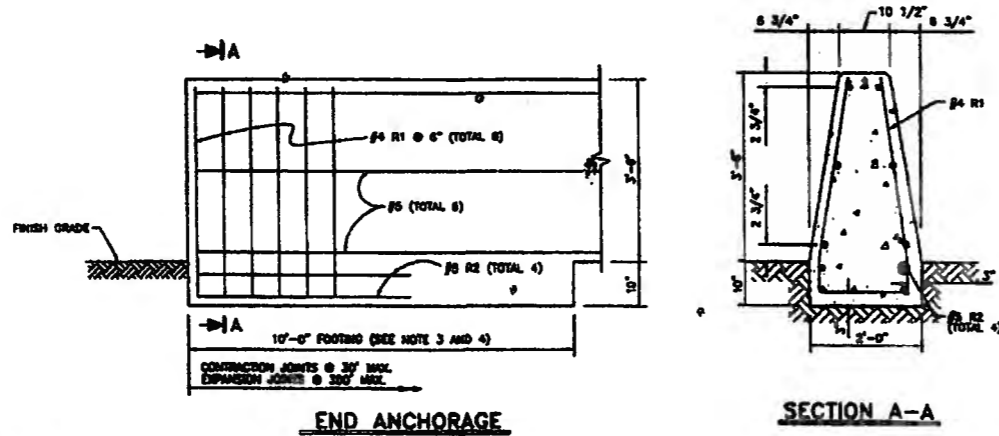


CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
MISCELLANEOUS DETAILS

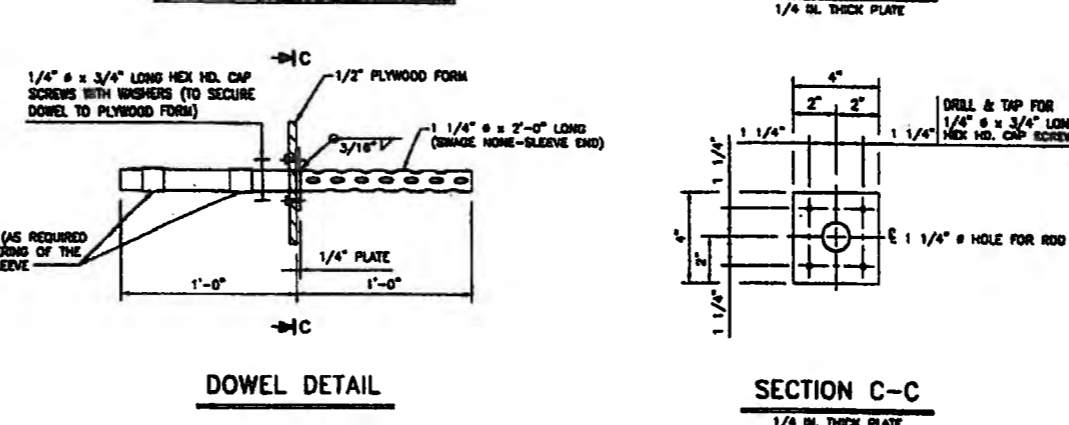
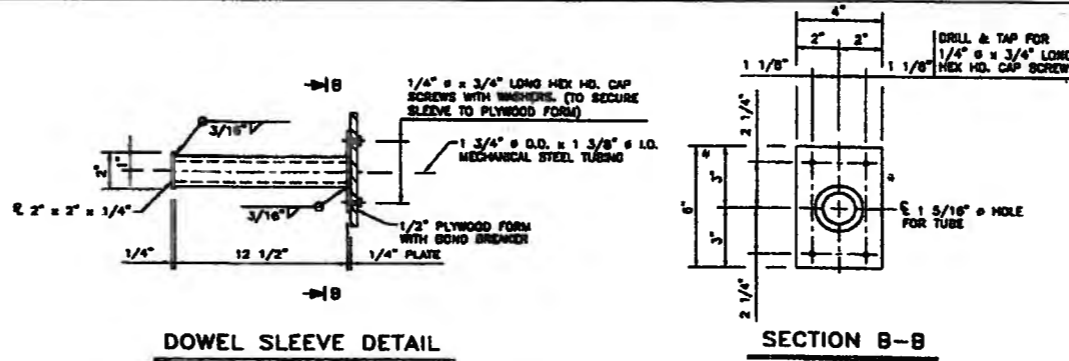
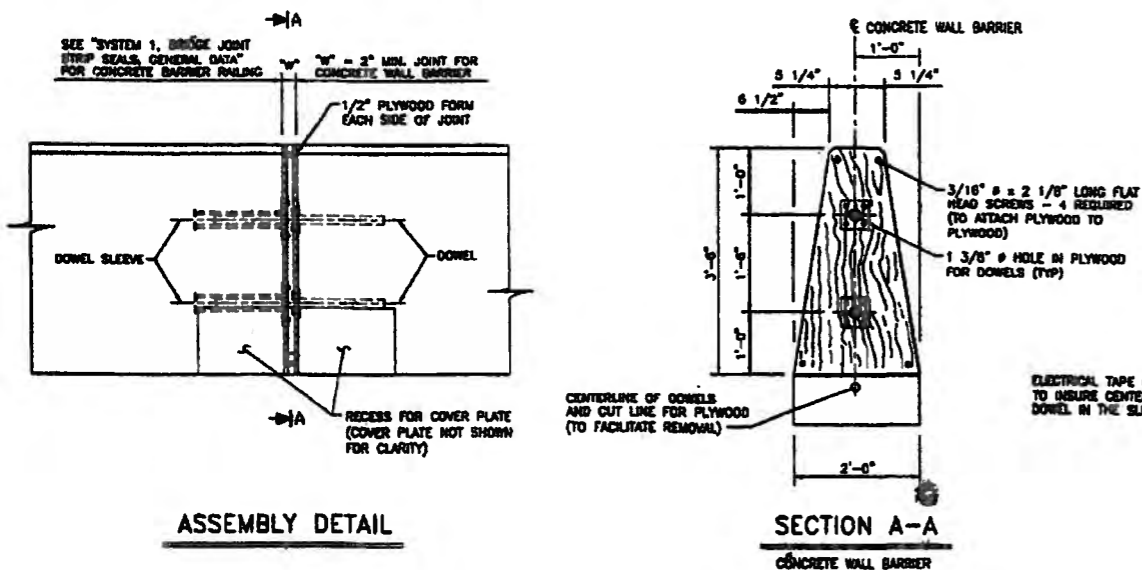
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVE DEC 1 8 2005 DESIGN REVIEW COMMITTEE	APPROVE CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 97      Of 116



**NOTES**

1. ALL CONCRETE SHALL BE AS SPECIFIED IN SECTION 101 OF THE COA STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. CHAMFER EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.
2. REINFORCING BARS SHALL CONFORM TO AASHTO SPECIFICATION M-31, GRADE 60. DIMENSIONS REFER TO THE CENTER OF BAR UNLESS OTHERWISE NOTED. STRUCTURAL STEEL SHALL CONFORM TO AASHTO SPECIFICATION 183 AND SHALL BE GIVEN A PROTECTIVE COATING IN CONFORMANCE WITH THE SPECIFICATIONS.
3. FOOTING IS REQUIRED AT CONCRETE BARRIER ENDS AND AT INTERRUPTIONS IN CONCRETE BARRIER.
4. EXPANSION JOINTS IN CONCRETE WALL BARRIER SHALL BE LOCATED AT 300 FT. MAX INTERVALS. PROVIDE CONTRACTION JOINTS AT 30 FT. INTERVALS. CONTRACTION JOINTS SHALL BE MADE USING COLD JOINTS, TOOLED JOINTS, OR SAW CUTS. SAW CUT JOINTS SHALL BE SEALED WITH A SILICON SEALANT APPROVED BY THE PROJECT MANAGER.
5. CWB SHALL BE CONSTRUCTED BY SLIP FORMING, OR CAST IN PLACE. PRECAST SECTION INSTALLATION IS NOT PERMITTED.



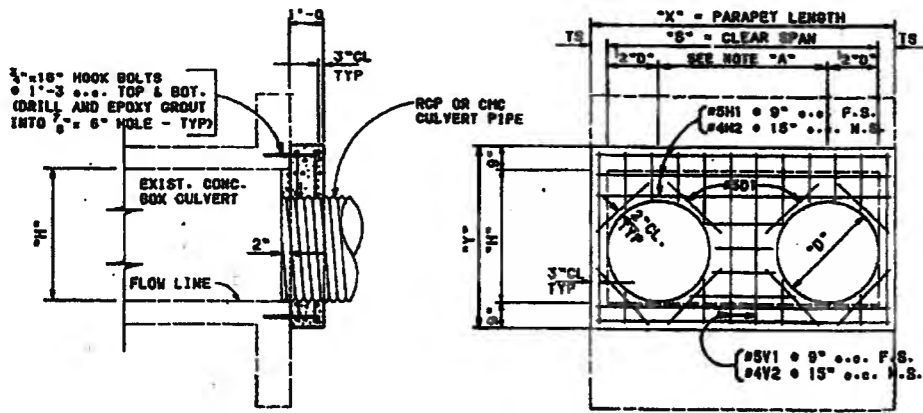
CONCRETE WALL BARRIER, (42")

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	WORK STAGED BY	CONTRACTOR	DATE	NO.	BY	NO.	DATE
ACCEPTANCE BY	FIELD CONTROL BY	ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	DATE				
DRAWINGS	CORRECTED BY	Near Intersection of Ridgeway Dr. & Calle Mortera	DATE				
MICRO-FILM INFORMATION		N.M. State Plane Coordinates (Central Zone)	DATE				
RECORDED BY		X=368,041.88, Y=1,519,125.33	DATE				
NO.		Elevation=5272.34 NOVD29, in feet	DATE				

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

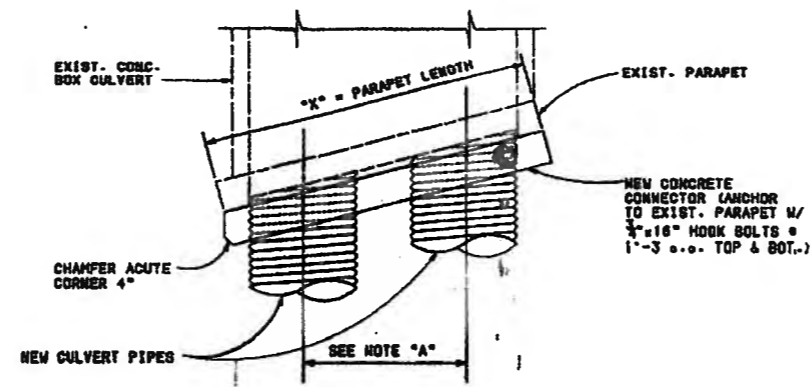
PASEO DEL NORTE EXTENSION  
MISCELLANEOUS DETAILS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	NO. / DAY / YR.	NO. / DAY / YR.
APPROVE DEC 1 2 2005 DESIGN REVIEW COMMITTEE	APPROVE DEC 1 2 2005 CITY ENGINEER		
City Project No. COA 704902	Zone Map No. C - 11	Sheet 98	Of 116

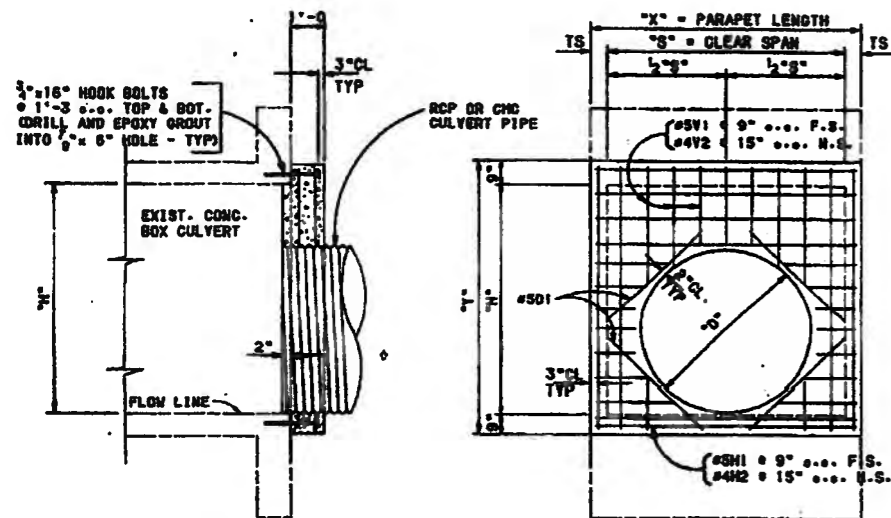


**CONNECTION CBC TO CULVERT PIPE  
(MULTIPLE CULVERT PIPE INSTALLATION)**

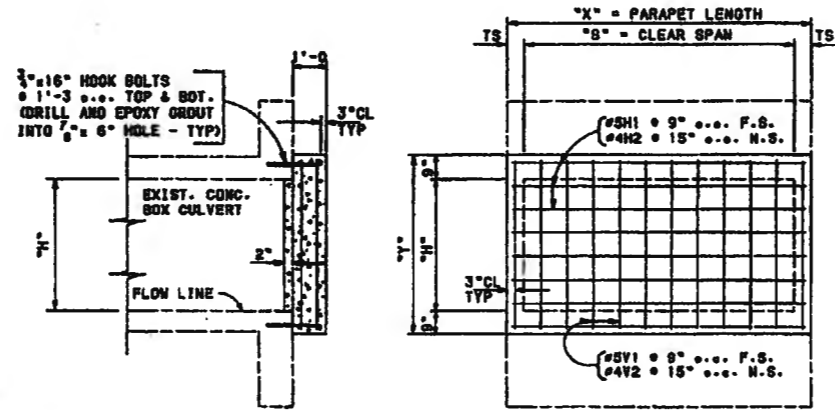
NOTE "A": TO PROVIDE FOR PROPER COMPACTION, THE MINIMUM DISTANCE BETWEEN CULVERT PIPES SHALL BE:  
 "D" = 2'-0" FOR DIAMETERS UP TO AND INCLUDING 48".  
 "D" = 3'-0" FOR DIAMETERS GREATER THAN 48".



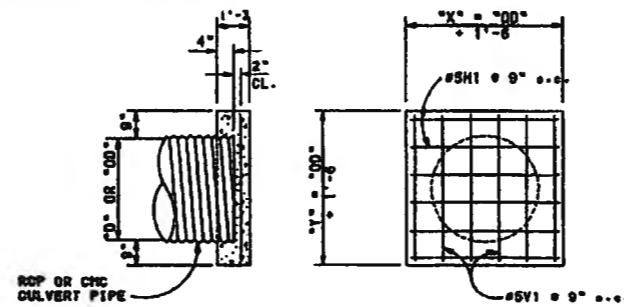
**CONNECTION CBC TO CULVERT PIPE  
PLAN VIEW OF SKEWED INSTALLATION**



**CONNECTION CBC TO CULVERT PIPE  
(SINGLE CULVERT PIPE INSTALLATION)**



**CBC BARREL PLUG**

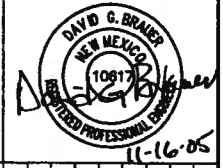


**CULVERT PIPE PLUG**

#5H1	"X" - 3"	REQ'D [ ("Y" - 6") ÷ 9" ] + 1	#5V1	"Y" - 3"	REQ'D [ ("X" - 6") ÷ 9" ] + 1
#4H2	"X" - 3"	REQ'D [ ("Y" - 6") ÷ 15" ] + 1	#4V2	"Y" - 3"	REQ'D [ ("X" - 6") ÷ 15" ] + 1
#5D1	"D" - 3"	REQ'D B PER CULVERT PIPE			

**REINFORCING BAR DETAILS**

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION	
CONTRACTOR	DATE	CONTRACTOR	DATE	FIELD NOTES	NO.
INSPECTOR'S NAME	DATE	ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"		BY	
INSPECTOR'S DATE	DATE	Near Intersection of Ridgeway Dr. & Calle Norte		DATE	
INSPECTOR'S BY	DATE	Geographic Position (NAD 27), in feet			
INSPECTOR'S DATE	DATE	N.M. State Plane Coordinates (Central Zone)			
INSPECTOR'S BY	DATE	X=368,041.86, Y=1,519,125.33			
INSPECTOR'S DATE	DATE	Elevation=5272.34 NGVD29, in feet			
INSPECTOR'S BY	DATE				
INSPECTOR'S DATE	DATE				
INSPECTOR'S BY	DATE				
INSPECTOR'S DATE	DATE				

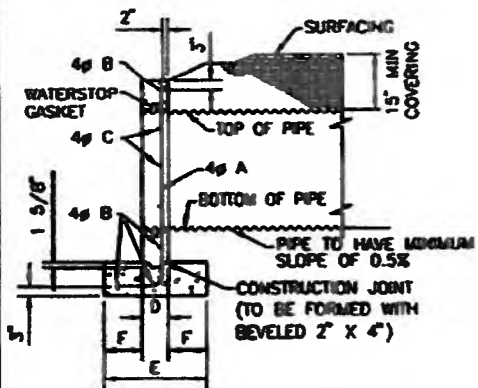


CITY OF ALBUQUERQUE  
 DEPARTMENT OF MUNICIPAL DEVELOPMENT  
 TRANSPORTATION DIVISION

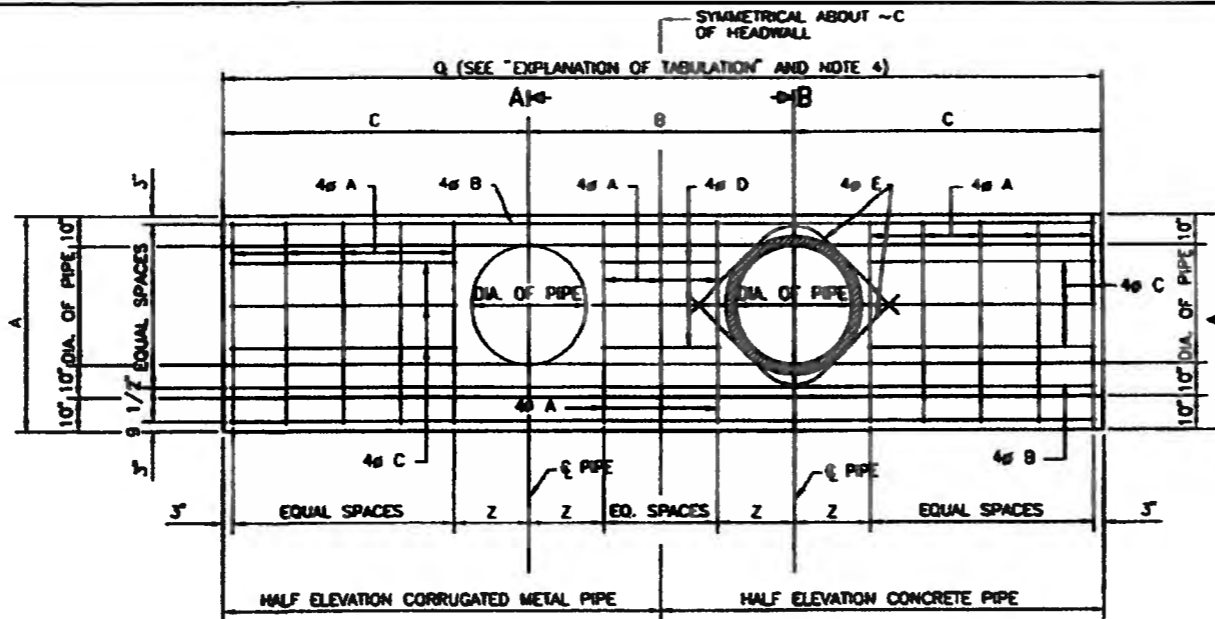
PASEO DEL NORTE EXTENSION  
 MISCELLANEOUS DETAILS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED DEC 1 2 2005 DESIGN REVIEW COMMITTEE	APPROVED DEC 1 2 2005 CITY ENGINEER		

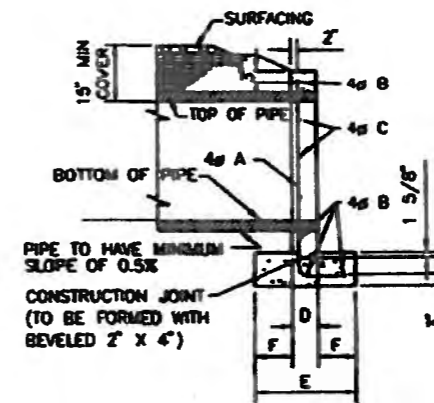
City Project No. COA 704902      Zone Map No. C - 11      Sheet 99 Of 116



**SECTION A-A**  
(TYP. ALONG Q OF CORRUGATED METAL PIPE)



**ELEVATION - HEADWALL FOR DOUBLE CULVERT**



**SECTION B-B**  
(TYP. ALONG Q OF CONCRETE PIPE)

**GENERAL NOTES:**

1. ALL CONCRETE SHALL BE AS SPECIFIED IN SECTION 101 OF THE COA STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.
2. REINFORCING BARS SHALL CONFORM TO AASHTO SPECIFICATION M-31, GRADE 60. DIMENSIONS REFER TO THE CENTER OF BAR UNLESS OTHERWISE NOTED.
3. WHILE THE DETAILS ON THESE DRAWINGS ARE FOR A TYPICAL CULVERT WITH 2 PIPES, THIS DRAWING APPLIES TO CULVERT HEADWALLS WITH ANY NUMBER OF PIPES. THE CENTRAL PORTION OF THE WALL OF LENGTH "B" IS REPEATED AS MANY TIMES AS REQUIRED BY THE NUMBER OF PIPES.
4. INSTALL A WATERSTOP GASKET ON THE PIPE IN THE HEADWALL MEETING ASTM C923 REQUIREMENTS.

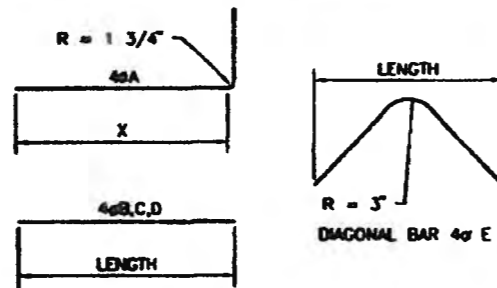
PIPE DIAM.		DIMENSIONS							CONCRETE HEADWALLS												QUANTITIES SHOWN ARE FOR TWO HEADWALLS																	
		A	B	C	D	E	F	O <sub>1</sub>	REQUIRED FOR TWO HEADWALLS WITH ONE PIPE				ADD FOR EACH ADDITIONAL PIPE								REINFORCING STEEL - LBS		CONCRETE (CIP) - CU. YD.															
									A BARS				B BARS				C BARS				E DIAG.				A		D BARS		E DIAG.		REINFORCING STEEL - LBS		CONCRETE (CIP) - CU. YD.					
									NO.	LENGTH	X	SPACING	Z	NO.	LENGTH	NO.	LENGTH	SPACING	NO.	LENGTH	NO.	LENGTH	SPACING	NO.	LENGTH	NO.	LENGTH	SPACING	NO.	LENGTH	NO.	LENGTH	SPACING	NO.	LENGTH	NO.	LENGTH	SPACING
18"	4'-0"	3'-0"	3'-5"	8"	2'-2"	9"	8'-6"	12	4'-6"	3'-5"	1'-0"	1'-1"	8	0 <sub>1</sub> -3"	4	2'-0"	1'-4"	4	4'-0"	85	1.74	1.80	4	2	1'-0"	1'-6"	4	4'-0"	40	0.73	0.78							
24"	4'-6"	4'-0"	4'-0"	8"	2'-2"	9"	8'-0"	12	5'-0"	3'-11"	1'-3"	1'-4 1/2"	8	0 <sub>1</sub> -3"	4	2'-6"	1'-7"	4	5'-0"	101	2.28	2.36	4	2	1'-3"	1'-7"	4	5'-0"	49	1.02	1.10							
30"	5'-0"	5'-0"	4'-8"	8"	2'-6"	11"	9'-6"	12	5'-0"	4'-5"	1'-5"	1'-8"	8	0 <sub>1</sub> -3"	8	3'-3"	1'-5"	4	6'-0"	129	3.05	3.18	4	4	1'-9"	1'-5"	4	6'-0"	63	1.43	1.56							
36"	5'-6"	5'-0"	5'-5"	8"	2'-8"	1'-0"	11'-6"	16	6'-3"	4'-11"	1'-2"	1'-11 1/2"	8	0 <sub>1</sub> -3"	8	4'-0"	1'-5"	4	7'-0"	167	4.02	4.19	6	4	2'-3"	1'-5"	4	7'-0"	82	1.85	2.02							
42"	6'-0"	7'-0"	6'-6"	10"	3'-0"	1'-1"	13'-0"	16	7'-0"	5'-5"	1'-4"	2'-3"	8	0 <sub>1</sub> -3"	8	4'-6"	1'-6"	4	8'-0"	188	5.68	5.96	6	4	2'-8"	1'-6"	4	8'-0"	94	2.65	2.93							
48"	6'-6"	7'-0"	7'-3"	10"	3'-4"	1'-3"	14'-6"	20	7'-8"	5'-11"	1'-2"	2'-6 1/2"	8	0 <sub>1</sub> -3"	12	4'-9"	1'-5"	4	9'-0"	242	6.92	7.28	6	6	3'-0"	1'-5"	4	9'-0"	110	3.31	3.67							
54"	7'-0"	7'-0"	8'-0"	10"	3'-6"	1'-4"	16'-0"	24	8'-3"	6'-5"	1'-0"	2'-10"	8	0 <sub>1</sub> -3"	12	5'-0"	1'-5"	4	10'-0"	284	8.12	8.57	8	6	3'-6"	1'-5"	4	10'-0"	133	3.95	4.39							
60"	7'-6"	10'-0"	8'-9"	10"	3'-9"	1'-5 1/2"	17'-6"	28	9'-0"	8'-11"	0'-11"	3'-1 1/2"	8	0 <sub>1</sub> -3"	12	5'-6"	1'-6 1/2"	4	11'-0"	334	9.51	10.04	10	6	3'-9"	1'-6 1/2"	4	11'-0"	158	4.68	5.22							

**EXPLANATION OF TABULATION**

O<sub>1</sub> = 2C  
 O<sub>2</sub> = 2C + B  
 O<sub>3</sub> = 2C + 2B  
 O<sub>4</sub> = 2C + (n-1)B  
 WHERE n = NUMBER OF PIPES

**DESIGN DATA**

DESIGN ACCORDING TO AASHTO SPECIFICATIONS CURRENT EDITION.  
 UNIT STRESSES: REINFORCED CONCRETE: f<sub>c</sub> = 1200 PSI  
 f<sub>s</sub> = 24,000 PSI; n = 9  
 HORIZONTAL EARTH PRESSURE = 44.5LB PER CU. YD. EQUIVALENT FLUID PRESSURE (SLOPING SURCHARGE)



**BAR BENDING DIAGRAMS**  
(SEE TABLE FOR BARS REQUIRED)

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	CONTRACTOR	DATE	NO.	BY	NO.	DATE
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"		ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"					
Geographic Position (NAD 27), in feet		Geographic Position (NAD 27), in feet					
Geographic Position (Central Zone)		Geographic Position (Central Zone)					
Checked By	DATE	Checked By	DATE				
Micro-Film Information	DATE	Micro-Film Information	DATE				

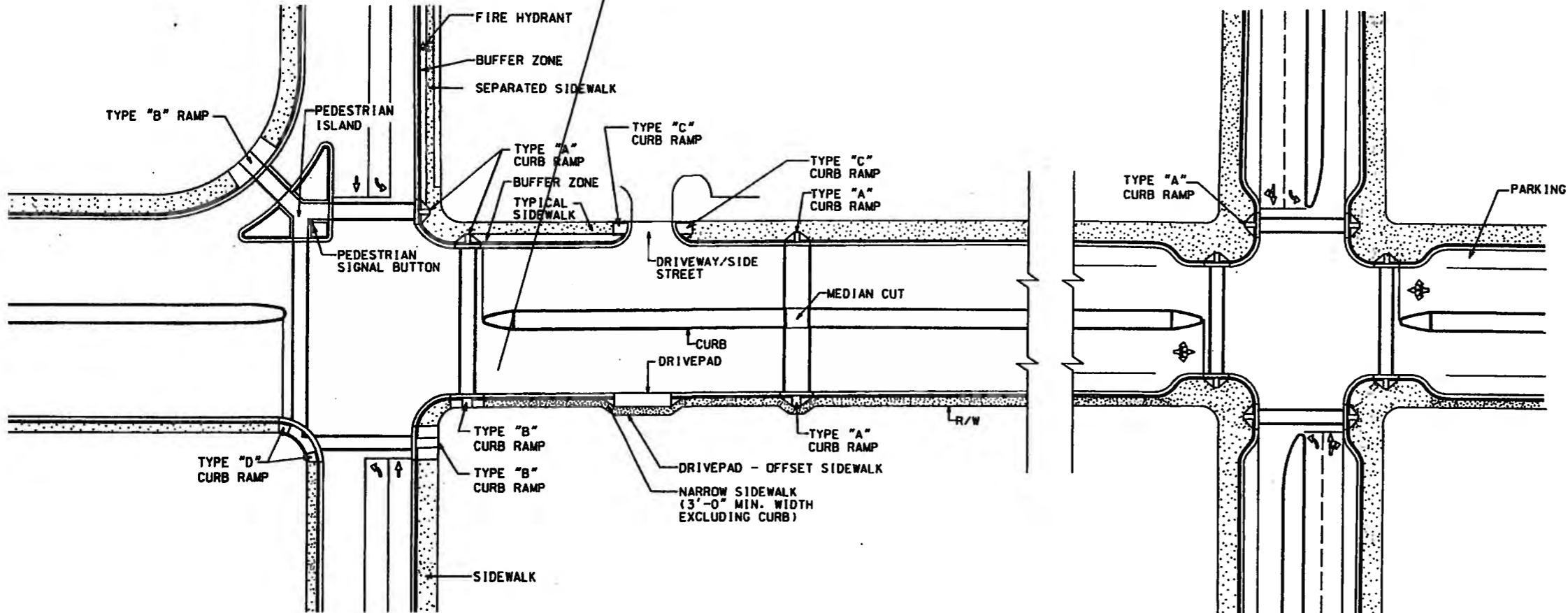
CITY OF ALBUQUERQUE  
 DEPARTMENT OF MUNICIPAL DEVELOPMENT  
 TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
 MISCELLANEOUS DETAILS

DESIGN REVIEW COMMITTEE: DEC 1 & 2005  
 CITY ENGINEER APPROVAL: [Signature]

City Project No. COA 704902  
 Zone Map No. C - 11  
 Sheet 99A Of 1

TYPE B  
USED IN  
THIS  
PROJECT



AS BUILT INFORMATION	
CONTRACTOR	NO.
WORK STARTED BY	DATE
INSPECTOR'S FIELD CHECK BY	DATE
APPROVAL BY	DATE
CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	NO.
DATE	

BENCH MARKS	
ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	DATE
Near Intersection of Ridgeway Dr. & Calle Norte	BY
Geographic Position (NAD 27), in feet	
N.M. State Plane Coordinates (Central Zone)	
X=365,041.88, Y=1,518,125.33	
Elevation=5272.34 NGVD29, in feet	

SURVEY INFORMATION	
FIELD NOTES	DATE
NO.	BY

ENGINEER'S SEAL	
NO. DATE	REMARKS
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE



CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
PEDESTRIAN ACCESS DETAILS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVE DEC 12 2005 DESIGN REVIEW COMMITTEE	APPROVE DEC 12 2005 CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 100 Of 116

**NEW CONSTRUCTION - GENERAL NOTES:**

- 1.) THESE DRAWINGS PROVIDE GUIDANCE FOR COMPLIANCE WITH THE CURRENT AMERICANS WITH DISABILITIES ACT (ADA) AND STATE CODE. THESE STANDARDS SHALL APPLY TO ALL NEW AND ALTERED SIDEWALKS.
- 2.) ANY DESIGN DEVIATION FROM THESE STANDARDS SHALL BE APPROVED BY THE NMDOT ADA COMPLIANCE COMMITTEE.
- 3.) SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT. SIDEWALK AND CURB RAMP SURFACES SHALL PROVIDE CONSISTENT SLOPES WITHIN EACH SECTION.
- 4.) ALL BROOM FINISHES SHALL BE PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL.
- 5.) A VERTICAL CHANGE OF 1/4 INCH (6mm) OR LESS IS ALLOWED. IF BETWEEN 1/4 INCH AND 1/2 INCH (6mm AND 13mm), THEN IT NEEDS TO BE BEVELED 2:1. CHANGES GREATER THAN 1/2 INCH SHALL BE RAMPED.
- 6.) OPENINGS OR CRACKS IN SIDEWALK SURFACES SHALL NOT EXCEED 1/2 INCH (13mm). ELONGATED OPENINGS SHOULD BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR OR DIAGONAL TO THE DOMINANT DIRECTION OF TRAVEL.

**SIDEWALKS**

- 7.) SIDEWALKS, CURB AND GUTTER CONSTRUCTION SHALL BE IN ACCORDANCE WITH COA STANDARD SPECIFICATIONS.
- 8.) THE LEAST POSSIBLE SLOPES SHALL BE USED FOR SIDEWALKS. SIDEWALK RUNNING SLOPE SHALL NOT EXCEED 5% (20:1). AT LOCATIONS WHERE THE RIGHT-OF-WAY IS RESTRICTIVE, THE SIDEWALK RUNNING SLOPE MAY FOLLOW THE ROAD PROFILE.
- 9.) SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% (50:1).
- 10.) SIDEWALKS SHALL HAVE A MINIMUM WIDTH OF 60", EXCLUDING THE CURB. EXCEPTION: A 36" WIDE SIDEWALK MAY BE USED WHERE THE RIGHT-OF-WAY IS RESTRICTED. WHERE THE SIDEWALK IS LESS THAN 60" WIDE, A PASSING SPACE SHALL BE PROVIDED EVERY 200 LINEAR FEET, WHEREVER FEASIBLE. PASSING SPACES SHALL BE A MINIMUM OF 60"x60" WITH 45 DEGREE TRANSITION TAPERS, 5% (20:1) MAXIMUM RUNNING SLOPES, AND 2% (50:1) MAXIMUM CROSS SLOPES.
- 11.) ANY SIGN POSTS, UTILITY POLES, FIRE HYDRANTS, TRAFFIC SIGNAL STANDARDS, LIGHT POLES, ETC. IN THE SIDEWALK SHALL NOT REDUCE THE CLEAR WIDTH TO LESS THAN 32" FOR MORE THAN 24" LENGTH.

**CURB RAMPS**

- 12.) THE LEAST POSSIBLE CURB RAMP SLOPE SHALL BE USED. CURB RAMP RUNNING SLOPE SHALL NOT EXCEED 6.7% (15:1), WHERE EXISTING TERRAIN IS STEEP. CURB RAMPS NEED NOT EXCEED 15 FEET IN LENGTH.
- 13.) PROVIDE A FLUSH TRANSITION BETWEEN RAMPS, SIDEWALKS, GUTTER, AND EDGE OF PAVEMENT, FREE OF DRAINAGE LIP, ABRUPT GRADE CHANGES, DROP-OFFS, OR ANY SURFACE IRREGULARITIES. A 5% (20:1) OR FLATTER TRANSITION TAPER SHALL BE PROVIDED FROM THE STREET TO THE GUTTER FOR CURB RAMP LOCATIONS (THIS MAY REQUIRE SPECIAL TREATMENT OF THE EDGE OF D.G.F.C.) WHEN DIAGONAL (NOT IN LINE WITH CROSSWALKS) RAMPS ARE NECESSARY. A 2% (50:1) TRANSITION OR "LOWER LANDING" SHALL BE PROVIDED. THE GUTTER RUNNING SLOPE (FLOW LINE) SHALL NOT EXCEED 2% MEASURED ALONG THE BOTTOM OF THE RAMP.
- 14.) CURB RAMPS SHALL BE LOCATED TO PROVIDE THE MOST DIRECT ROUTE OF TRAVEL ACROSS THE TRAFFIC LANES.
- 15.) TWO DIRECTIONAL (IN LINE WITH THE CROSSWALKS) RAMPS PER CORNER ARE USED IN ORDER TO PROVIDE SHORT AND DIRECT CROSSINGS FOR THE USER.
- 16.) SIGN POSTS, UTILITY POLES, FIRE HYDRANTS, TRAFFIC SIGNAL STANDARDS, LIGHT POLES, PULL BOXES, METERS, VALVES, ETC., SHALL NOT BE LOCATED IN THE CURB RAMP INCLUDING SIDE FLARES AND LANDINGS.
- 17.) IN ORDER TO BETTER ACCOMMODATE CONDITIONS IN THE FIELD, THE CONTRACTOR SHALL OBTAIN FINAL APPROVAL OF CURB RAMP LOCATIONS FROM THE PROJECT MANAGER WHEN NECESSITATED BY EXISTING PHYSICAL CONDITIONS. ALTERNATE CURB RAMPS MUST BE SUBMITTED TO THE PROJECT MANAGER FOR APPROVAL.

**LANDINGS**

- 18.) LANDINGS SHALL BE A MINIMUM OF 60"x60". SLOPES SHALL NOT EXCEED 2% (50:1) IN ALL DIRECTIONS.

**CROSSWALKS**

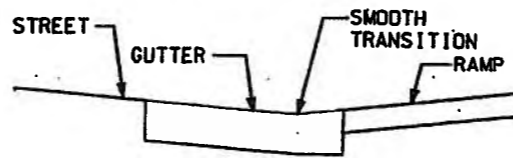
- 19.) ACCESSIBLE PEDESTRIAN CROSSINGS SHALL BE WITHIN THE MARKED CROSSWALK.

**DETECTABLE WARNINGS**

- 20.) DETECTABLE WARNINGS ARE REQUIRED AT ALL STREET INTERSECTIONS, SIGNALIZED DRIVEWAYS, COMMERCIAL DRIVEWAYS 30' WIDE OR GREATER, AND MARKED MID-BLOCK CROSSWALKS.

**PEDESTRIAN SIGNALS**

- 21.) A PARALLEL OR FORWARD APPROACH OF 30" WIDE BY 48" LONG WITH SLOPES IN ALL DIRECTIONS NOT EXCEEDING 2% (50:1) SHALL BE PROVIDED FOR ACCESS TO THE PEDESTRIAN SIGNAL BUTTON(S).
- 22.) PEDESTRIAN SIGNAL BUTTONS SHALL BE CENTERED EITHER IN FRONT OF OR ADJACENT TO THE APPROACH AREA DESCRIBED ABOVE.
- 23.) PEDESTRIAN SIGNAL BUTTONS SHALL BE LOCATED IN ACCORDANCE WITH ACCESSIBILITY REQUIREMENTS OF THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES WITHIN A HORIZONTAL REACH OF 0" TO 10" AND SHALL BE WITHIN 36" TO 46" ABOVE THE SIDEWALK SURFACE.

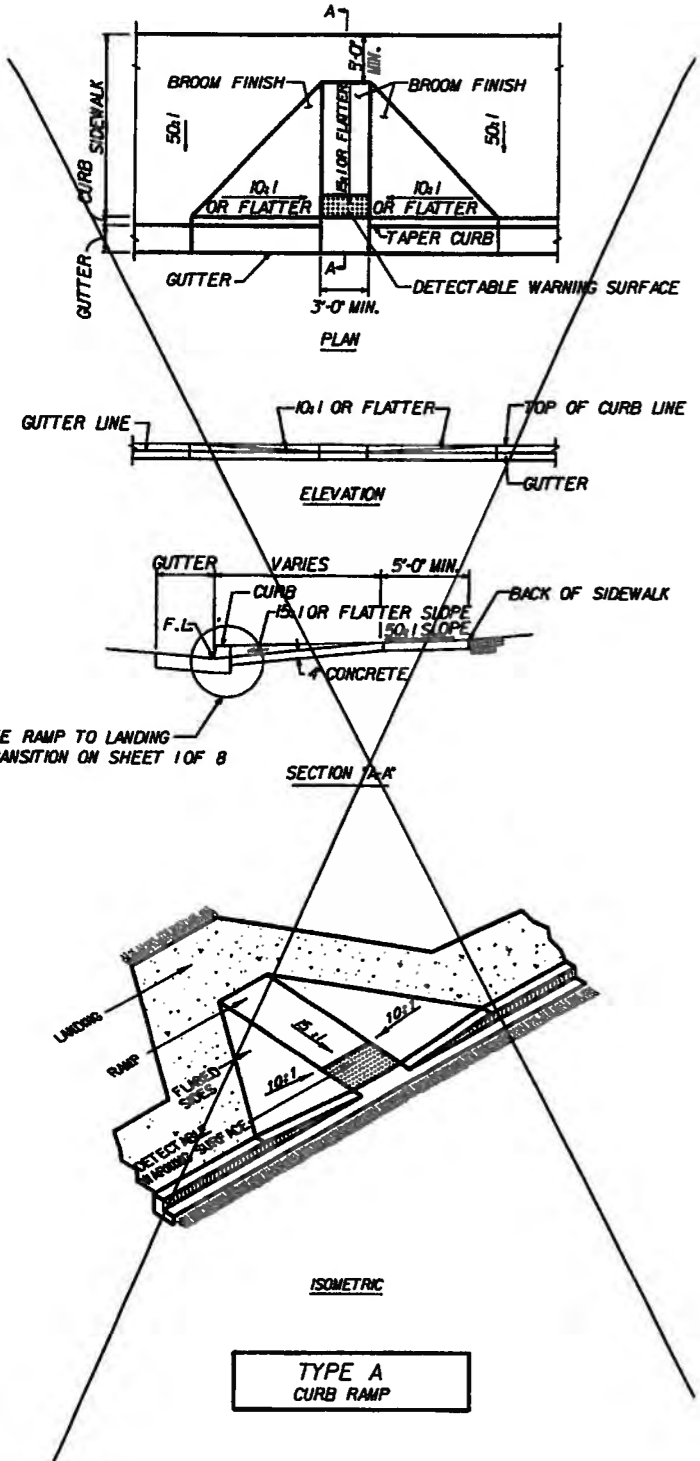


**RAMP TO LANDING TRANSITION**

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	CONTRACTOR	DATE	NO.	BY		NO. DATE DESIGN
INSPECTED BY	DATE	Geographic Position (NAD 27), in feet	DATE	NO.	BY		
ACCEPTANCE BY	DATE	N.M. State Plane Coordinates (Central Zone)	DATE				
DRAWINGS	DATE	X=363,041.88, Y=1,519,125.33	DATE				
RECORDED BY	DATE	Elevation=5272.34 NGVD29, in feet	DATE				
MICRO-FILM INFORMATION	DATE		DATE				
	DATE		DATE				

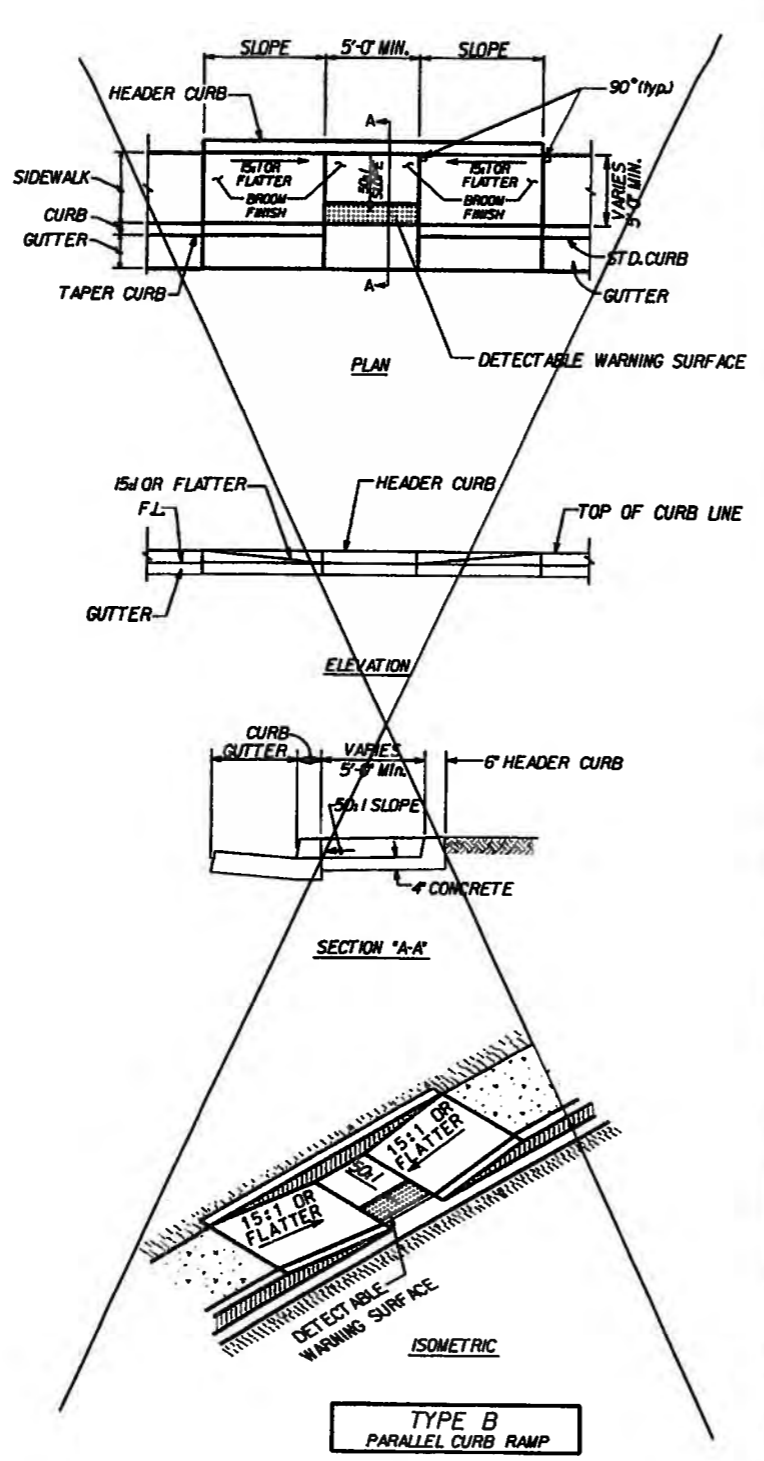
**CITY OF ALBUQUERQUE**  
 DEPARTMENT OF MUNICIPAL DEVELOPMENT  
 TRANSPORTATION DIVISION  
**PASEO DEL NORTE EXTENSION**  
**PEDESTRIAN ACCESS DETAILS**

DESIGN REVIEW COMMITTEE <b>APPROVE</b> DEC 1 2 2005 DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL <b>APPROVE</b> DEC 1 2 2005 CITY ENGINEER	MO./DAY/YR. _____	MO./DAY/YR. _____
City Project No. COA 704902	Zone Map No. C - 11	Sheet 101	Of 116



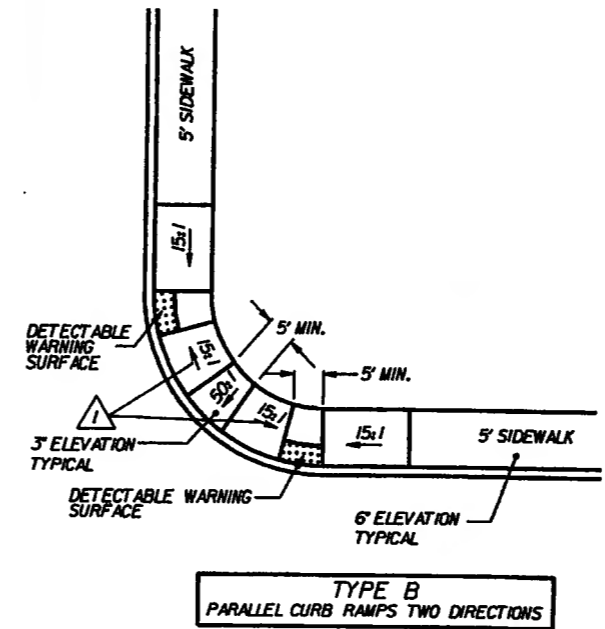
**TYPE A CURB RAMP**

N.I.C.



**TYPE B PARALLEL CURB RAMP**

N.I.C.



TYPE B  
USED IN  
THIS  
PROJECT

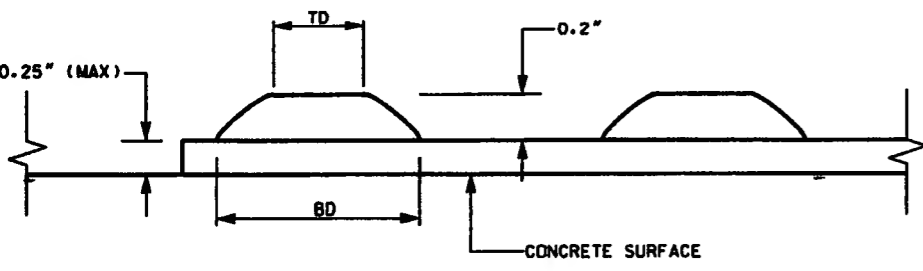
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CONTRACTOR	DATE	CONTRACTOR	DATE	NO.	BY		NO. DATE REMARKS DESIGN DATE DRAWN BY DATE CHECKED BY DATE
INSPECTOR'S NAME	DATE	INSPECTOR'S NAME	DATE	NO.	BY		
ASPECT RANGER BY	DATE	Geographic Position (NAD 27), in feet					
VERIFICATION BY	DATE	N.M. State Plane Coordinates (Central Zone)					
DRAWINGS	DATE	X=366,041.88, Y=1,519,125.33					
DATE	DATE	Elevation=5272.34 NOV029, in feet					
MICRO-FILM INFORMATION	DATE						
RECORDED BY	DATE						
NO.							

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
PEDESTRIAN ACCESS DETAILS

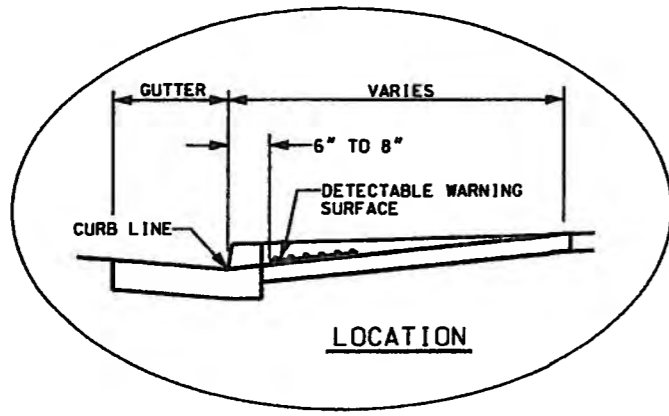
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVE DEC 1 3 2005	APPROVE DEC 1 2 2005		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 102 Of 116



**DOME SECTION**

BD - BASE DIAMETER  
0.9" MIN TO 1.4" MAX  
TD - TOP DIAMETER  
50% OF BD MIN TO 65% OF BD MAX



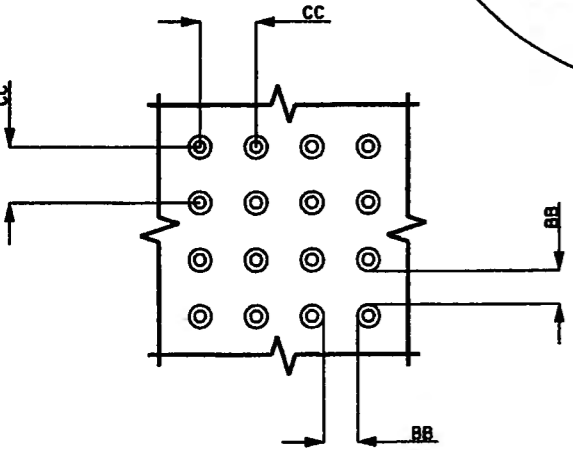
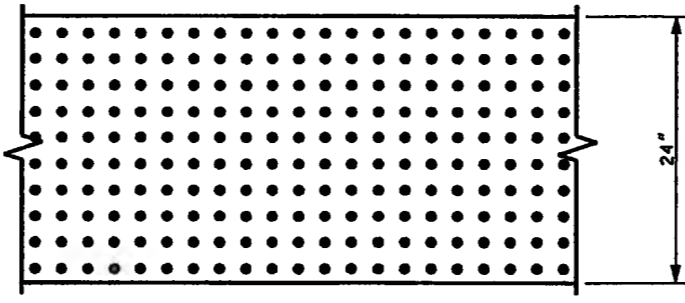
**LOCATION**

**DEFINITIONS:**  
DETECTABLE WARNINGS. A SURFACE FEATURE BUILT IN OR APPLIED TO WALKING SURFACES OR OTHER ELEMENTS TO WARN OF HAZARDS ON A CIRCULATION PATH TO AID PERSONS WITH VISUAL IMPAIRMENTS.

**CURB LINE.** A LINE AT THE FACE OF THE CURB THAT MARKS THE TRANSITION BETWEEN THE SIDEWALK AND THE GUTTER OR ROADWAY.

- LOCATION:**
- DETECTABLE WARNING SURFACES SHALL BE PROVIDED WHERE A CURB RAMP OR LANDING CONNECTS TO A CROSSWALK AND OR PEDESTRIAN ROUTE CROSSING A ROADWAY.
  - DETECTABLE WARNING SURFACE SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS 6 INCHES (150 MM) MINIMUM AND 8 INCHES (205 MM) MAXIMUM FROM THE CURB LINE.
  - MEDIAN AND REFUGE ISLANDS SHALL HAVE DETECTABLE WARNINGS. DETECTABLE WARNINGS AT CUT THROUGH ISLANDS SHALL BE SEPARATED BY A 24 INCH (610 MM) MINIMUM LENGTH OF WALKWAY WITHOUT WARNINGS.  
EXCEPTION: DETECTABLE WARNINGS SHALL NOT BE REQUIRED ON CUT THROUGH ISLANDS WHERE THE CROSSINGS ARE CONTROLLED BY SIGNALS AND ARE TIMED FOR FULL CROSSING ON MEDIANS LESS THAN 7' WIDE.

- NOTES:**
- DETAILS SPECIFIED ON THIS PLAN APPLY TO ALL CONSTRUCTION OR RECONSTRUCTION OF STREETS, CURBS, OR SIDEWALKS BY ALL PUBLIC AGENCIES AND BY ALL PRIVATE ORGANIZATIONS CONSTRUCTING FACILITIES FOR PUBLIC USE.
  - SIDEWALKS RAMPS ARE TO BE LOCATED AS SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
  - THE TOP OF THE JOINT FILLER FOR ALL RAMP TYPES SHALL BE FLUSH WITH THE ADJACENT CONCRETE.
  - ALL PRODUCTS USED FOR DETECTABLE WARNING SURFACES SHALL BE ON THE DEPARTMENT'S APPROVED PRODUCT LIST.



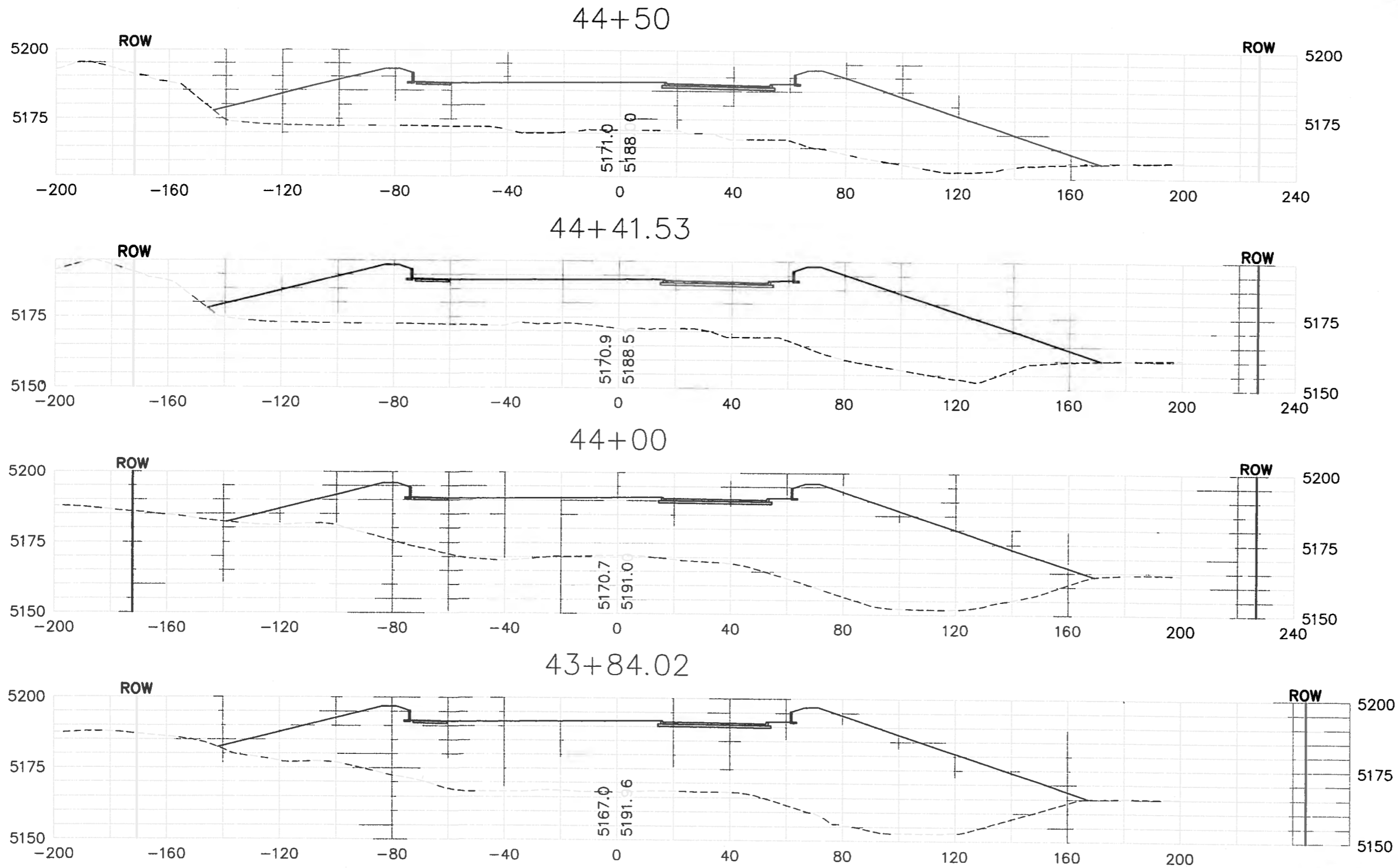
**DOME ALIGNMENT**

DETECTABLE WARNING SURFACES SHALL EXTEND 24" MIN. IN THE DIRECTION OF TRAVEL AND FULL WIDTH OF THE CURB RAMP, LANDING, OR TRANSITION. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF THE CROSSWALK TO PERMIT WHEELS TO ROLL BETWEEN DOMES.

**DOME SPACING**

CC - CENTER TO CENTER SPACING  
1.6" MIN TO 2.4" MAX  
BB - BASE TO BASE SPACING  
0.65" MIN

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE
INSPECTOR'S NAME	DATE	BY	DATE	BY	DATE
INSPECTOR'S ADDRESS	DATE	REMARKS	DESIGN	DRAWN BY	DATE
INSPECTOR'S PHONE	DATE	NO. DATE	CHECKED BY	DATE	DATE
INSPECTOR'S SIGNATURE	DATE				
INSPECTOR'S TITLE	DATE				
INSPECTOR'S ORGANIZATION	DATE				
INSPECTOR'S LICENSE NO.	DATE				
INSPECTOR'S EXPIRATION DATE	DATE				
INSPECTOR'S PHOTO	DATE				
INSPECTOR'S SIGNATURE	DATE				
INSPECTOR'S TITLE	DATE				
INSPECTOR'S ORGANIZATION	DATE				
INSPECTOR'S LICENSE NO.	DATE				
INSPECTOR'S EXPIRATION DATE	DATE				
INSPECTOR'S PHOTO	DATE				
INSPECTOR'S SIGNATURE	DATE				
INSPECTOR'S TITLE	DATE				
INSPECTOR'S ORGANIZATION	DATE				
INSPECTOR'S LICENSE NO.	DATE				
INSPECTOR'S EXPIRATION DATE	DATE				
INSPECTOR'S PHOTO	DATE				
INSPECTOR'S SIGNATURE	DATE				
INSPECTOR'S TITLE	DATE				
INSPECTOR'S ORGANIZATION	DATE				
INSPECTOR'S LICENSE NO.	DATE				
INSPECTOR'S EXPIRATION DATE	DATE				
INSPECTOR'S PHOTO	DATE				
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INSPECTOR'S LICENSE NO.	DATE				
INSPECTOR'S EXPIRATION DATE	DATE				
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INSPECTOR'S LICENSE NO.	DATE				
INSPECTOR'S EXPIRATION DATE	DATE				
INSPECTOR'S PHOTO	DATE				
INSPECTOR'S SIGNATURE	DATE				
INSPECTOR'S TITLE	DATE				
INSPECTOR'S ORGANIZATION	DATE				
INSPECTOR'S LICENSE NO.	DATE				
INSPECTOR'S EXPIRATION DATE	DATE				
INSPECTOR'S PHOTO	DATE				
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INSPECTOR'S TITLE	DATE				
INSPECTOR'S ORGANIZATION	DATE				
INSPECTOR'S LICENSE NO.	DATE				
INSPECTOR'S EXPIRATION DATE	DATE				
INSPECTOR'S PHOTO	DATE				
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INSPECTOR'S PHOTO	DATE				
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INSPECTOR'S LICENSE NO.	DATE				
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INSPECTOR'S LICENSE NO.	DATE				
INSPECTOR'S EXPIRATION DATE	DATE				
INSPECTOR'S PHOTO	DATE				
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INSPECTOR'S ORGANIZATION	DATE				
INSPECTOR'S LICENSE NO.	DATE				
INSPECTOR'S EXPIRATION DATE	DATE				
INSPECTOR'S PHOTO	DATE				
INSPECTOR'S SIGNATURE	DATE				
INSPECTOR'S TITLE	DATE				
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INSPECTOR'S EXPIRATION DATE	DATE				
INSPECTOR'S PHOTO	DATE				
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INSPECTOR'S LICENSE NO.	DATE				
INSPECTOR'S EXPIRATION DATE	DATE				
INSPECTOR'S PHOTO	DATE				
INSPECTOR'S SIGNATURE	DATE				
INSPECTOR'S TITLE	DATE				
INSPECTOR'S ORGANIZATION	DATE				
INSPECTOR'S LICENSE NO.	DATE				
INSPECTOR'S EXPIRATION DATE	DATE				
INSPECTOR'S PHOTO	DATE				
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INSPECTOR'S TITLE	DATE				
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INSPECTOR'S PHOTO	DATE				
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INSPECTOR'S EXPIRATION DATE	DATE				
INSPECTOR'S PHOTO	DATE				
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INSPECTOR'S PHOTO	DATE				
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INSPECTOR'S ORGANIZATION	DATE				
INSPECTOR'S LICENSE NO.	DATE				
INSPECTOR'S EXPIRATION DATE	DATE				
INSPECTOR'S PHOTO	DATE				
INSPECTOR'S SIGNATURE	DATE				
INSPECTOR'S TITLE	DATE				
INSPECTOR'S ORGANIZATION	DATE				
INSPECTOR'S LICENSE NO.	DATE				



AS BUILT INFORMATION	
CONTRACTOR	DATE
STARTED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
VERIFICATION BY	DATE
DRAWN BY	DATE
RECORDED BY	DATE
MICRO-FILM INFORMATION	
NO.	

**BENCH MARKS**  
 ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"  
 Near Intersection of Ridgeway Dr. & Calle Marteno  
 Geographic Position (NAD 27), in feet  
 N.M. State Plane Coordinates (Central Zone)  
 X=365,041.63, Y=1,519,125.33  
 Elevation=8272.34 NGVD29, in feet

SURVEY INFORMATION	
FIELD NOTES	DATE
BY	
NO.	



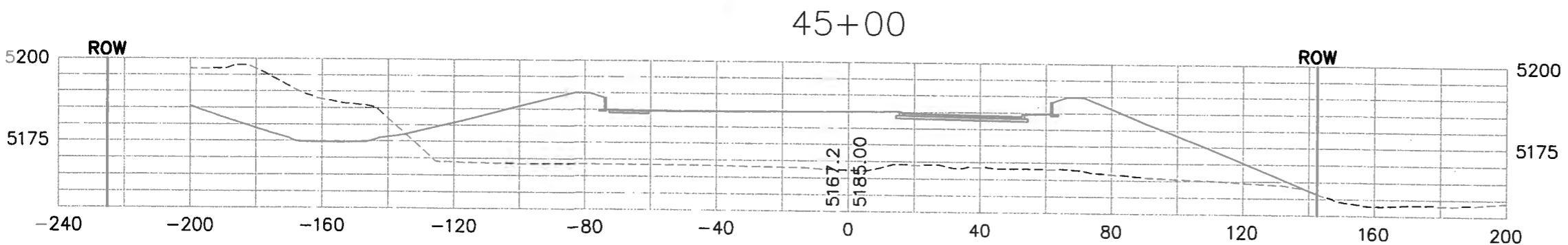
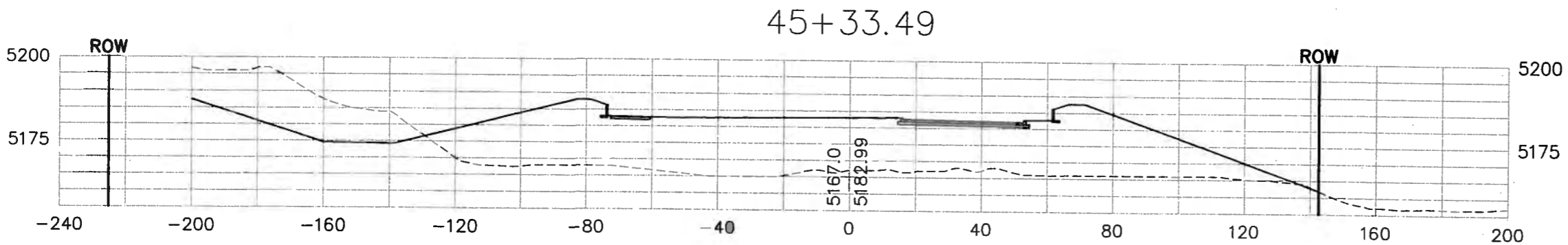
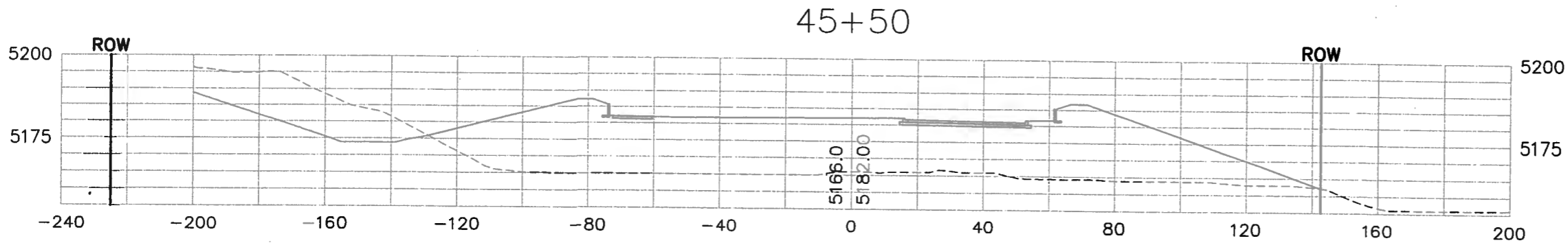
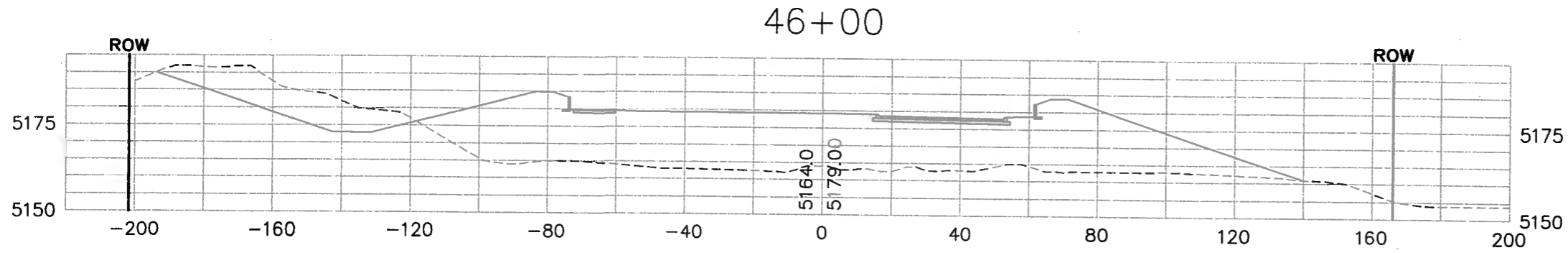
NO.	DATE	REMARKS	BY
	11/13/05	DESIGN	
	11/13/05	DESIGNED BY	DOB
	11/13/05	DRAWN BY	DOB
	11/15/05	CHECKED BY	DOB

CITY OF ALBUQUERQUE  
 DEPARTMENT OF MUNICIPAL DEVELOPMENT  
 TRANSPORTATION DIVISION

**PASEO DEL NORTE EXTENSION  
 ROADWAY CROSS SECTIONS**

DESIGN REVIEW COMMITTEE APPROVAL DEC 1 2 2005	CITY ENGINEER APPROVAL DEC 1 2 2005	NO./DAY/YR.	NO./DAY/YR.

City Project No. COA 704902      Zone Map No. C - 11      Sheet 104 Of 116



<b>AS BUILT INFORMATION</b>	
CONTRACTOR	DATE
WORK	DATE
DESIGNED BY	DATE
ACCEPTANCE BY	DATE
REVISION BY	DATE
<b>MICRO-FILM INFORMATION</b>	
RECORDED BY	NO.

<b>BENCH MARKS</b>	
ACS 3 1/4" Aluminum Cap atopped "ACS 1-C11"	
Near Intersection of Ridgeway Dr. & Calle Norbana	
Geographic Position (NAD 27), in feet	
N.M. State Plane Coordinates (Central Zone)	
X=366,041.88, Y=1,518,125.33	
Elevation=8272.34 NOV020, in feet	

<b>SURVEY INFORMATION</b>	
FIELD NOTES	DATE
BY	DATE
NO.	DATE

<b>ENGINEER'S SEAL</b>	
NO. DATE	BY
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE

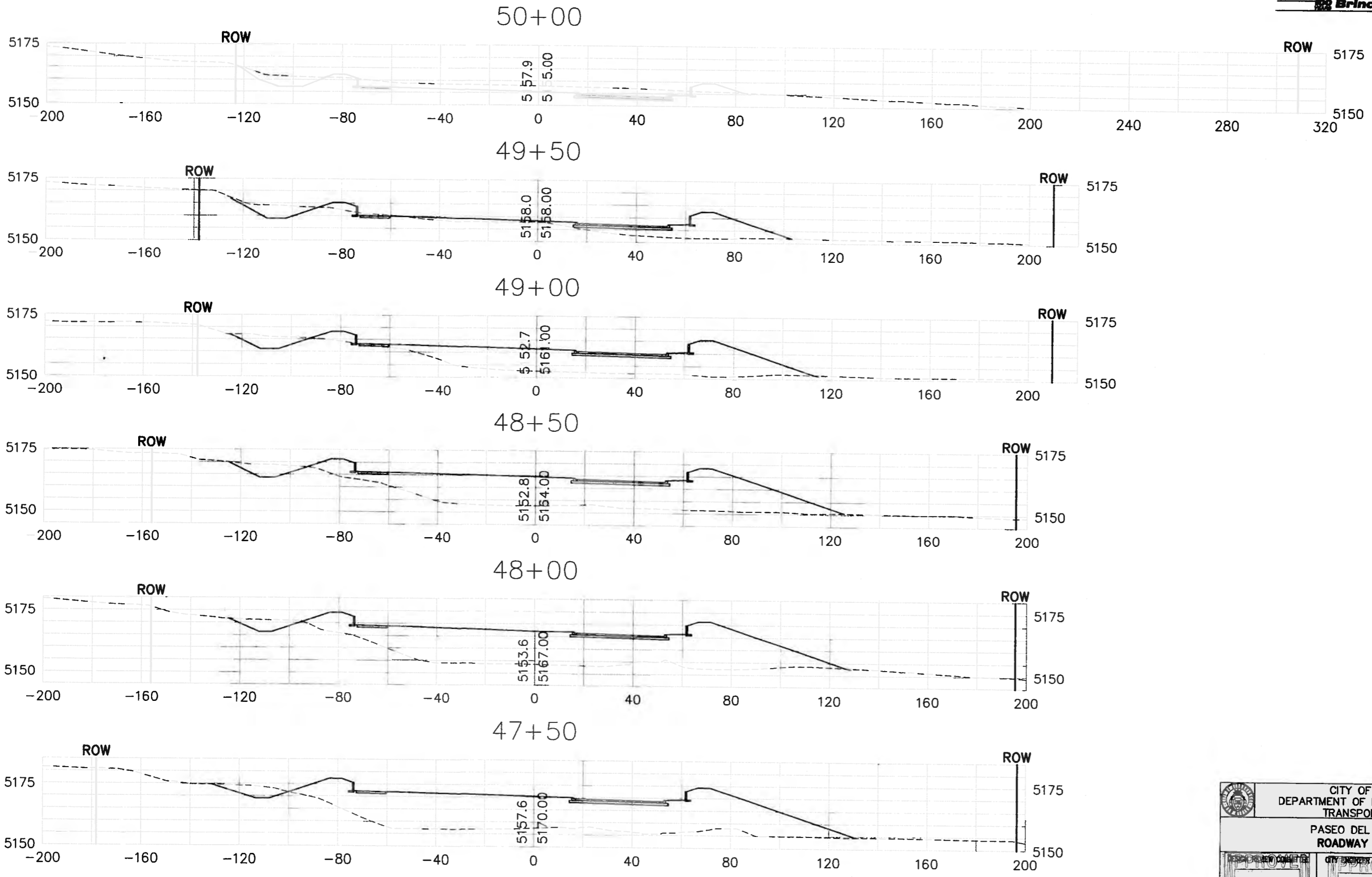
CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

**PASEO DEL NORTE EXTENSION  
ROADWAY CROSS SECTIONS**

		NO. DAY/YR.	NO. DAY/YR.
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 105      Of 116





AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	WORK ORDER NO.	DATE	NO.	BY	NO.	DATE
PARSONS BRINCKERHOFF		ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"					
		Near Intersection of Ridgeway Dr. & Cole Martine					
		Geographic Position (NAD 27), in feet					
		N.M. State Plane Coordinates (Central Zone)					
		X=368,041.88, Y=1,919,128.33					
		Elevation=5272.34 NGVD29, in feet					
MICRO-FILM INFORMATION		FIELD NOTES		REMARKS		DESIGN	
RECORDED BY	DATE	NO.	BY	NO.	DATE	DESIGNED BY	DATE
						DRAWN BY	DATE
						CHECKED BY	DATE

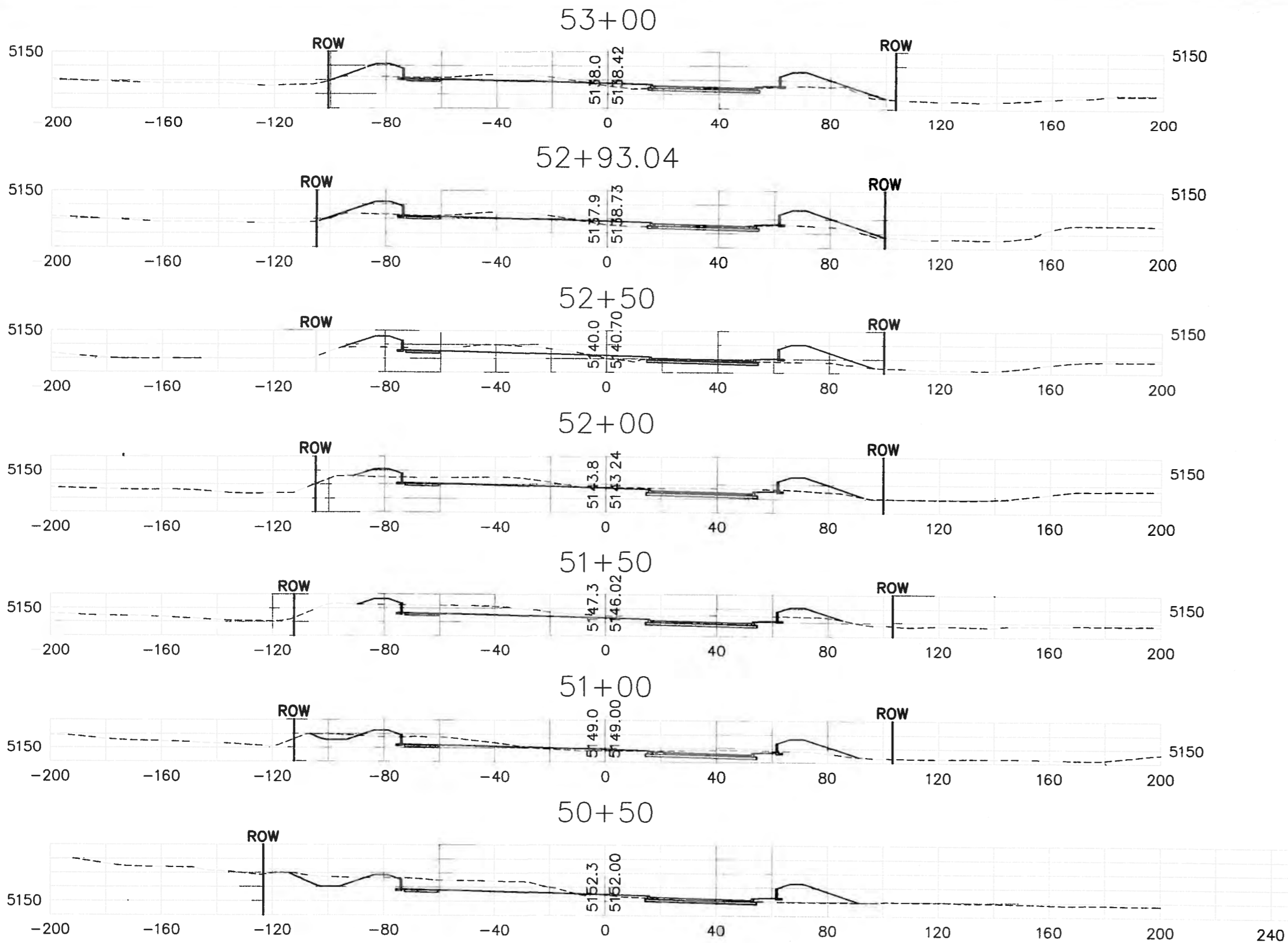


CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
ROADWAY CROSS SECTIONS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	NO. / DAY / YR.	NO. / DAY / YR.
APPROVE DEC 1 2 2005 DESIGN REVIEW COMMITTEE	APPROVE DEC 1 2 2005 CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 107 Of 116



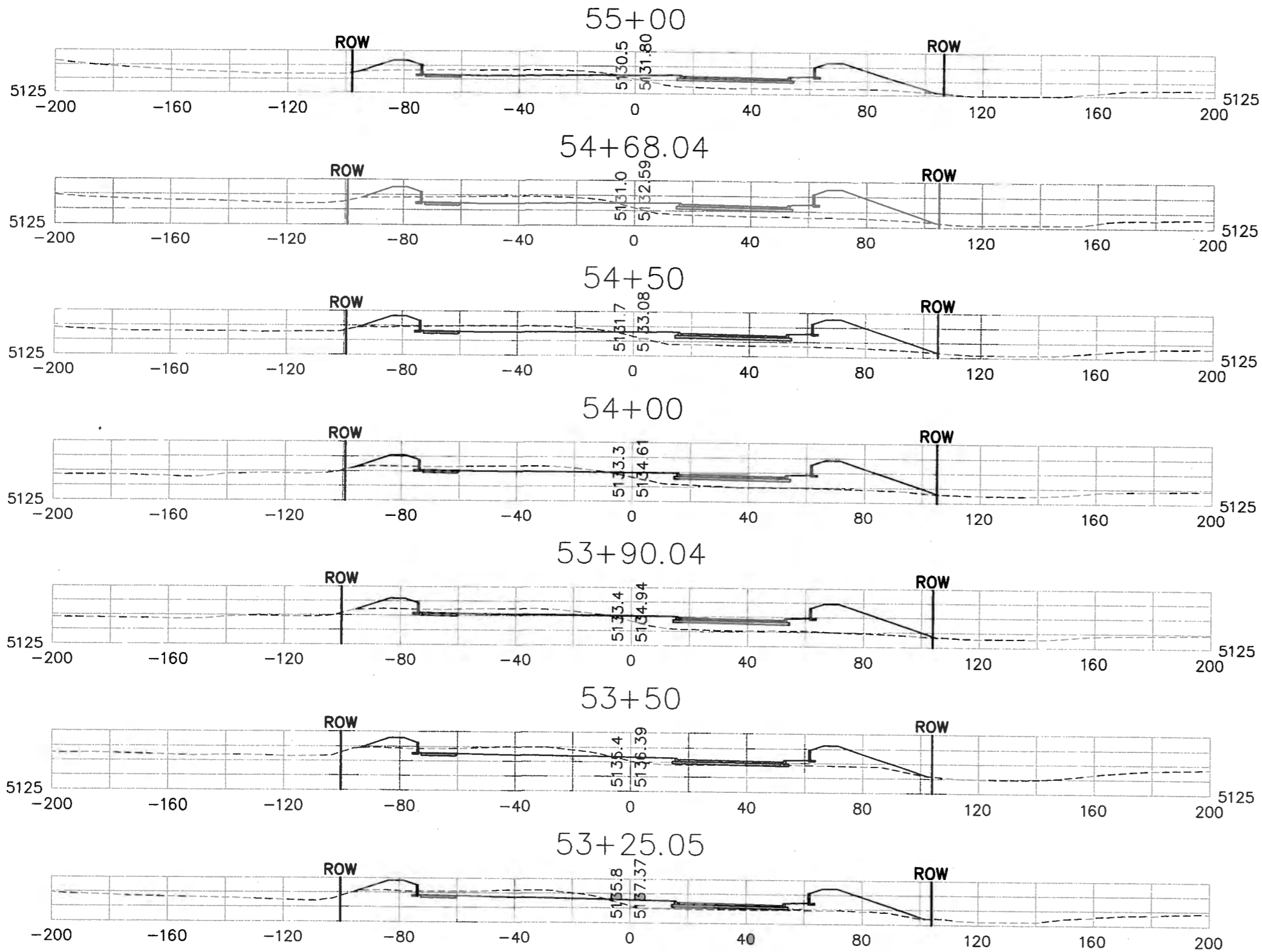
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	DATE	NO.	BY		M-16-05
WORK PERFORMED BY	DATE	Near Intersection of Ridgeway Dr. & Calle Montana	DATE	NO.	BY		
INSPECTOR'S ACCEPTANCE BY	DATE	Geographic Position (NAD 27), in feet	DATE	NO.	BY	DESIGN DATE 11/13/05 DRAWN BY DATE 11/13/05 CHECKED BY DATE 11/15/05	
REVISIONS	DATE	N.M. State Plane Coordinates (Central Zone)	DATE	NO.	BY		
DATE	DATE	X=366,041.88, Y=1,919,125.33	DATE	NO.	BY		
DATE	DATE	Elevation=5272.34 NGVD29, in feet	DATE	NO.	BY		
DATE	DATE		DATE	NO.	BY		

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
ROADWAY CROSS SECTIONS

DESIGN REVIEW COMMITTEE DEC 1 2 2005	CITY ENGINEER APPROVAL DEC 1 2 2005	NO. / DAY / YR.	NO. / DAY / YR.
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 108      Of 116



AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	NO.	ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	DATE	NO.	BY		11-16-05
WORK BY	DATE	Near Intersection of Ridgeway Dr. & Calle Montano	DATE	NO.	BY		
SURVEYOR'S ASSOCIATION	DATE	Geographic Position (NAD 27), in feet	DATE	NO.	BY	REMARKS	DESIGN
FIELD NO.	DATE	N.M. State Plane Coordinates (Central Zone)	DATE	NO.	BY	DESIGNED BY	DDB
DATE	DATE	X=366,041.88, Y=1,519,125.33	DATE	NO.	BY	DRAWN BY	DDB
DATE	DATE	Elevation=5272.34 NOV029, in feet	DATE	NO.	BY	CHECKED BY	DDB
DATE	DATE		DATE	NO.	BY		

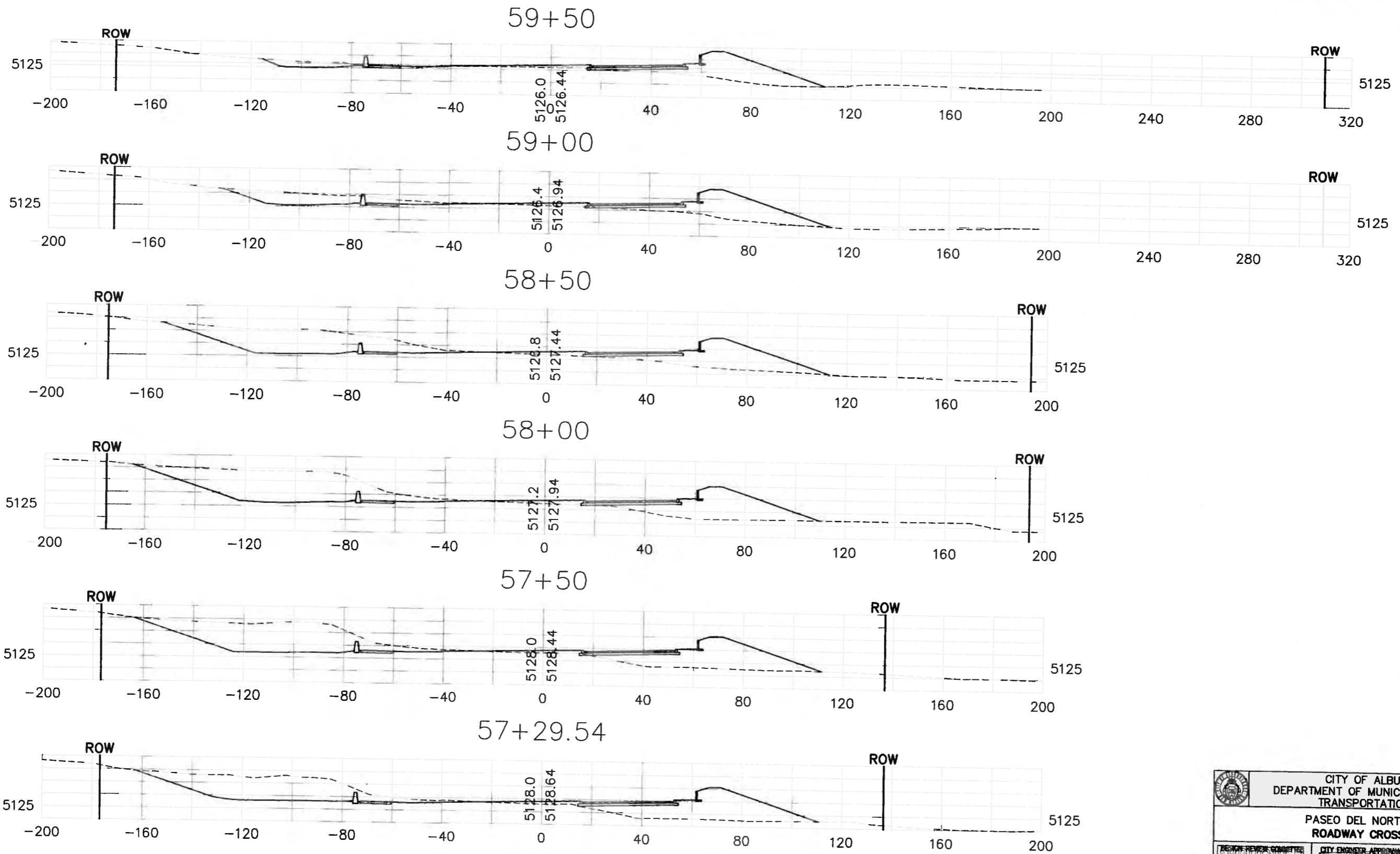
CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

**PASEO DEL NORTE EXTENSION  
ROADWAY CROSS SECTIONS**

		MC/DAY/YR	MC/DAY/YR
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 109      Of 116





AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	DATE	NO.	BY		REMARKS
STARTED BY	DATE	Near Intersection of Ridgeway Dr. & Calle Nortena	DATE	NO.	BY		DESIGN
INSPECTOR'S ACCEPTANCE BY	DATE	Geographic Position (NAD 27), in feet					DESIGNED BY
VERIFICATION BY	DATE	N.M. State Plane Coordinates (Central Zone)					DRAWN BY
DRAWINGS BY	DATE	X=366,041.85, Y=1,519,125.33					CHECKED BY
MICRO-FILM INFORMATION	DATE	Elevation=8272.34 NGVD29, in feet					
RECORDED BY	DATE						
NO.							

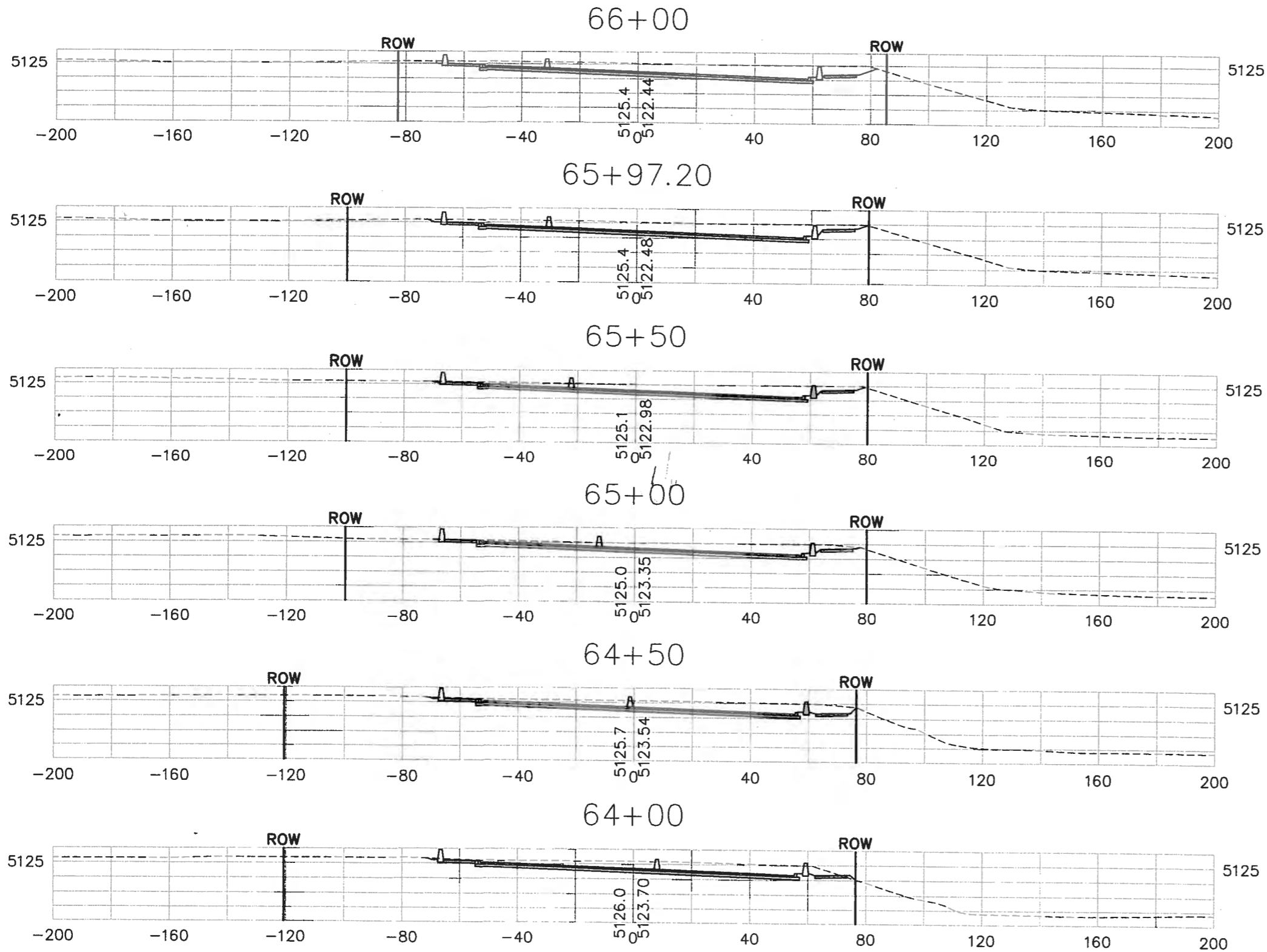
CITY OF ALBUQUERQUE  
 DEPARTMENT OF MUNICIPAL DEVELOPMENT  
 TRANSPORTATION DIVISION  
**PASEO DEL NORTE EXTENSION  
 ROADWAY CROSS SECTIONS**

		MO./DAY/YR.	MO./DAY/YR.
DESIGNED BY	DRAWN BY	CHECKED BY	
DATE 11/13/05	DATE 11/13/05	DATE 11/15/05	

City Project No. COA 704902      Zone Map No. C - 11      Sheet 111 Of 116







AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	CONTRACTOR	DATE	NO.	BY	NO.	DATE
CONTRACTOR		ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"					
WORK STATIONED BY		Near Intersection of Ridgeway Dr. & Calle Nortena					
INSPECTOR'S DATE		Geographic Position (NAD 27), in feet					
FIELD CHECKER BY		N.M. State Plane Coordinates (Central Zone)					
VERIFICATION BY		X=386,041.86, Y=1,519,125.33					
DATE		Elevation=5272.34 NOV029, in feet					
CORRECTED BY							
MICRO-FILM INFORMATION							
RECORDED BY							
NO.							

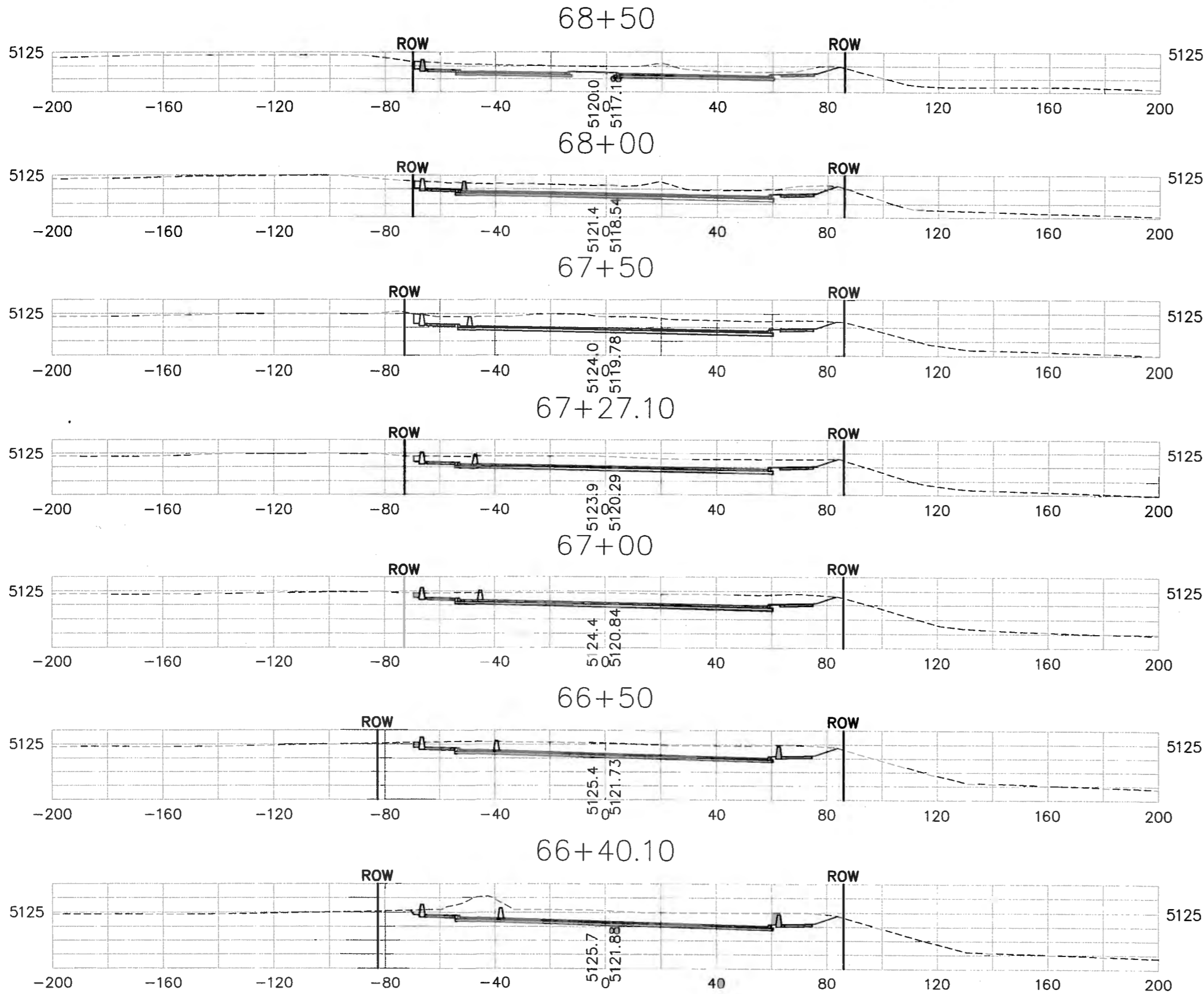


CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

**PASEO DEL NORTE EXTENSION  
ROADWAY CROSS SECTIONS**

DESIGN REVIEW COMMITTEE	CITY ENGINEER	NO. / DAY / YR.	NO. / DAY / YR.
APPROVE	APPROVE		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

City Project No. COA 704902      Zone Map No. C - 11      Sheet 114      Of 116



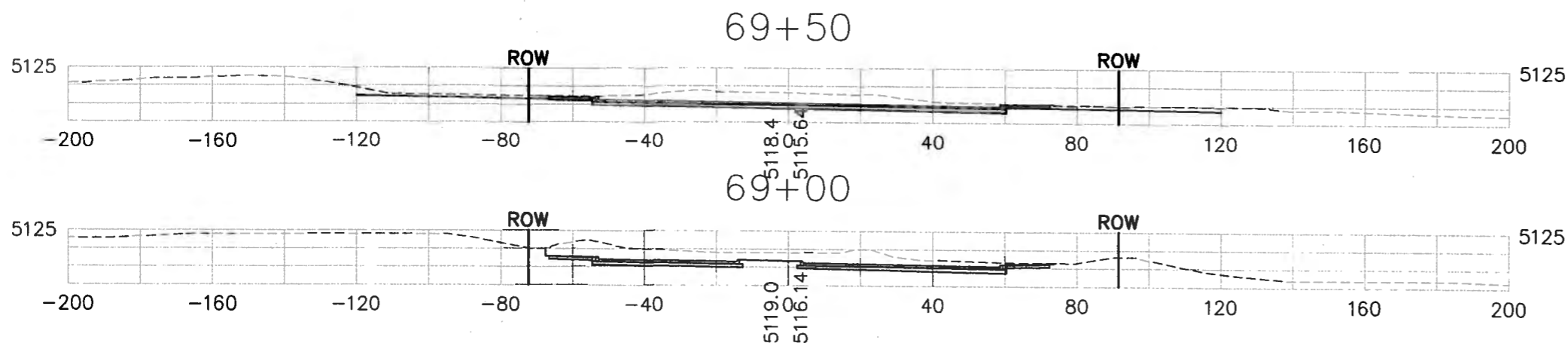
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"	DATE	NO.	BY		11-16-05
WORK BY	DATE	Near Intersection of Ridgeway Dr. & Calle Nortena	DATE	NO.	BY		
INSPECTOR'S ACCEPTANCE BY	DATE	Geographic Position (NAD 27), in feet	DATE	NO.	BY	REMARKS	DESIGN
FIELD ACCEPTANCE BY	DATE	N.M. State Plane Coordinates (Central Zone)	DATE	NO.	BY	DESIGNED BY	DCB
FIELD DRAWINGS	DATE	X=368,041.88, Y=1,519,123.33	DATE	NO.	BY	DRAWN BY	DCB
CORRECTED BY	DATE	Elevation=5272.34 NGVD29, in feet	DATE	NO.	BY	CHECKED BY	DCB
MICRO-FILM INFORMATION	DATE		DATE	NO.	BY		

CITY OF ALBUQUERQUE  
DEPARTMENT OF MUNICIPAL DEVELOPMENT  
TRANSPORTATION DIVISION

PASEO DEL NORTE EXTENSION  
ROADWAY CROSS SECTIONS

DESIGN REVIEW COMMITTEE	CITY ENGINEER	MO./DAY/YR.	MO./DAY/YR.
APPROVE	APPROVE		
DEC 1 2 2005			

City Project No. COA 704902      Zone Map No. C - 11      Sheet 115 Of 116



CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT TRANSPORTATION DIVISION			
PASEO DEL NORTE EXTENSION ROADWAY CROSS SECTIONS			
		NO. / DAY / YR.	NO. / DAY / YR.
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
City Project No. COA 704902	Zone Map No. C - 11	Sheet 116	Of 116

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	NO.	BY	NO.	DATE	NO.	DATE
				ACS 3 1/4" Aluminum Cap stamped "ACS 1-C11"		CONTRACTOR	
				Near Intersection of Ridgeway Dr. & Calle Martena		DATE	
				Geographic Position (NAD 27), in feet		INSPECTOR'S	
				N.M. Slope Plane Coordinates (Central Zone)		DATE	
				X=368,041.88, Y=1,519,125.33		ACCEPTANCE BY	
				Elevation=5272.34 NGVD29, in feet		DATE	
						RECORDED BY	
						DATE	
						MICRO-FILM INFORMATION	
						RECORDED BY	
						DATE	
						NO.	

11-16-05