

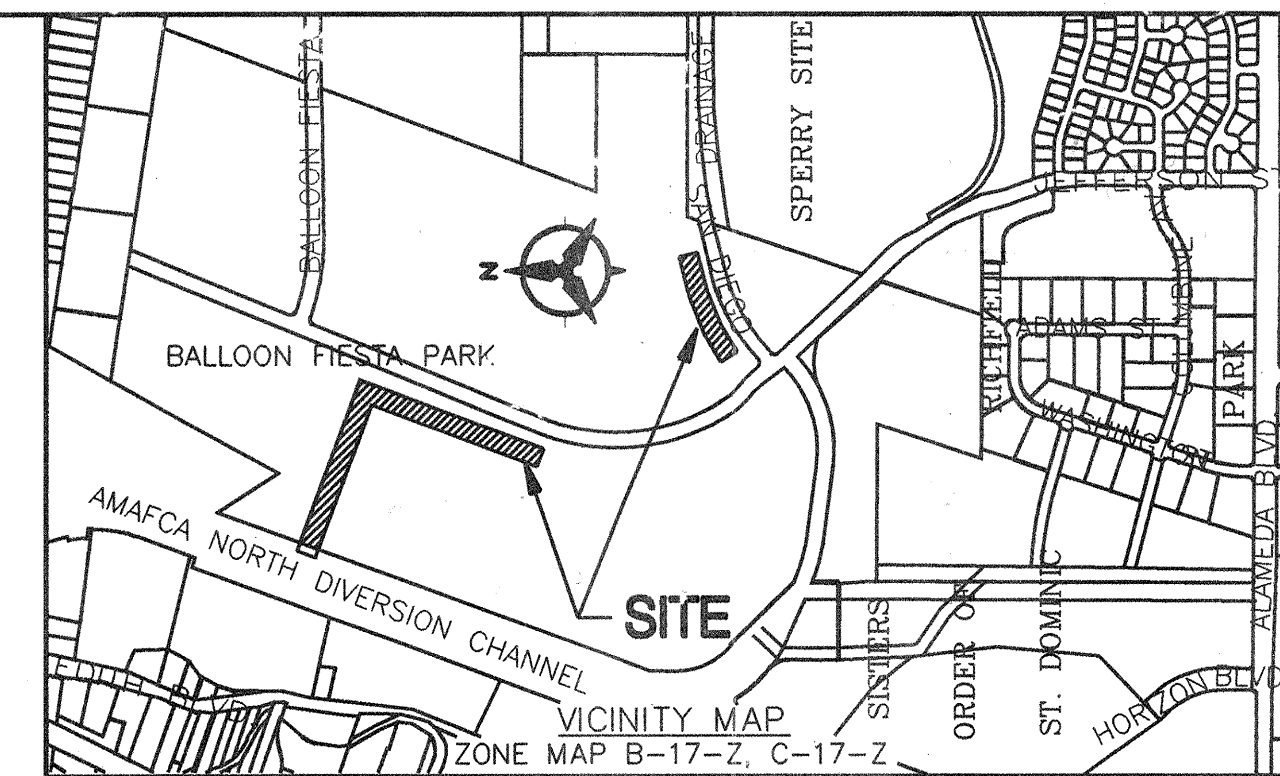
CONSTRUCTION PLANS FOR BALLOON FIESTA PARK PHASE 3 - LAUNCH FIELD INFRASTRUCTURE ALBUQUERQUE, NEW MEXICO INDEX

SHEET NUMBER	DESCRIPTION
1	COVER SHEET
2	SITE PLAN
3	STORM DRAIN PLAN & PROFILE STA. 2+11.05 TO 12+00
4	STORM DRAIN PLAN & PROFILE STA. 12+00 TO 24+00
5	STORM DRAIN PLAN & PROFILE STA. 24+00 TO 25+80.90
6	ADDITIVE ALTERNATE #1 - 30" STORM DRAIN
7	LAUNCH FIELD ROADS
8	LAUNCH FIELD ROADS
9	CITICORP BERM
10	UPPER POND GRADING AND STORM DRAIN PLAN AND PROFILE
11	LOWER POND GRADING AND STORM DRAIN PLAN AND PROFILE
12	PIPE PENETRATION DETAILS
13	MISCELLANEOUS DETAILS
E1	ELECTRICAL PLAN

RECORD DRAWING CERTIFICATION

I, Alan R. Benham, a Registered New Mexico Professional Engineer, certify that the record drawings for Balloon Fiesta Park Phase 3 Launch Field Infrastructure have been revised in accordance with information furnished by Bohannon Huston, Inc. in order to reflect the construction as actually accomplished, and is true and correct to the best of my knowledge and belief.

Alan R. Benham, P.E.
P.E. No. 14940



NOTICE TO CONTRACTORS

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED, OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AND SHALL INCLUDE UPDATE No.6
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. THE CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED W/ PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
- CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE, UNLESS OTHERWISE SPECIFIED, REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- ANY WORK WITHIN AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI - FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- "FOR STORM DRAIN CONSTRUCTION, RCP PIPE JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION."

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☒ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- ☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☒ IF CURB IS DERESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- ☒ THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

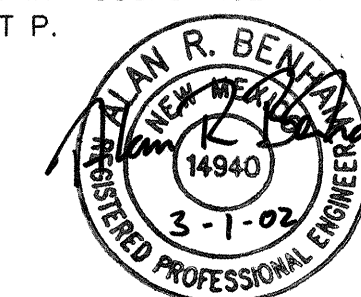
FOR INFORMATION ONLY

APPROVED FOR CONSTRUCTION

Donald S. Ship 3/10/2001
FOR JOHN KELLY, P.E. DATE
EXECUTIVE ENGINEER
AMAFCA

CONSTRUCTION NOTES:

- THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR CONSTRUCTION OBSERVER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
- A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE CONSTRUCTION OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
- CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY COSTS INCURRED FOR REPAIRS SHALL BE THE COST OF THE CONTRACTOR.
- OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT OF WAY.
- THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E. BARRICADING, SURFACE DISTURBANCE)
- THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE AT HIS EXPENSE ANY AND ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
- ALL PERMANENT PAVEMENT MARKING AND TRAFFIC SIGNING SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR PER PLAN.
- ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.
- ALL SAWCUT PAVEMENT SHALL HAVE A UNIFORM EDGE AND BE SPRAYED WITH TACK.
- WHEN ABUTTING NEW CURB AND GUTTER TO EXISTING PAVEMENT, A 1' WIDE SECTION OF EXISTING PAVEMENT ADJACENT TO THE CURB AND GUTTER SHALL BE SAWCUT, REMOVED, AND REPLACED AS PER THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB & GUTTER, DRIVE PADS, WHEELCHAIR RAMPS, AND SIDEWALK DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE PER COA STANDARDS, AT HIS OWN EXPENSE.
- ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.



RECORD DRAWING

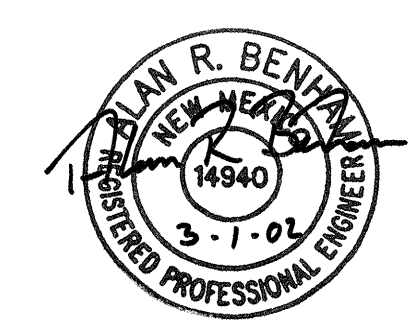
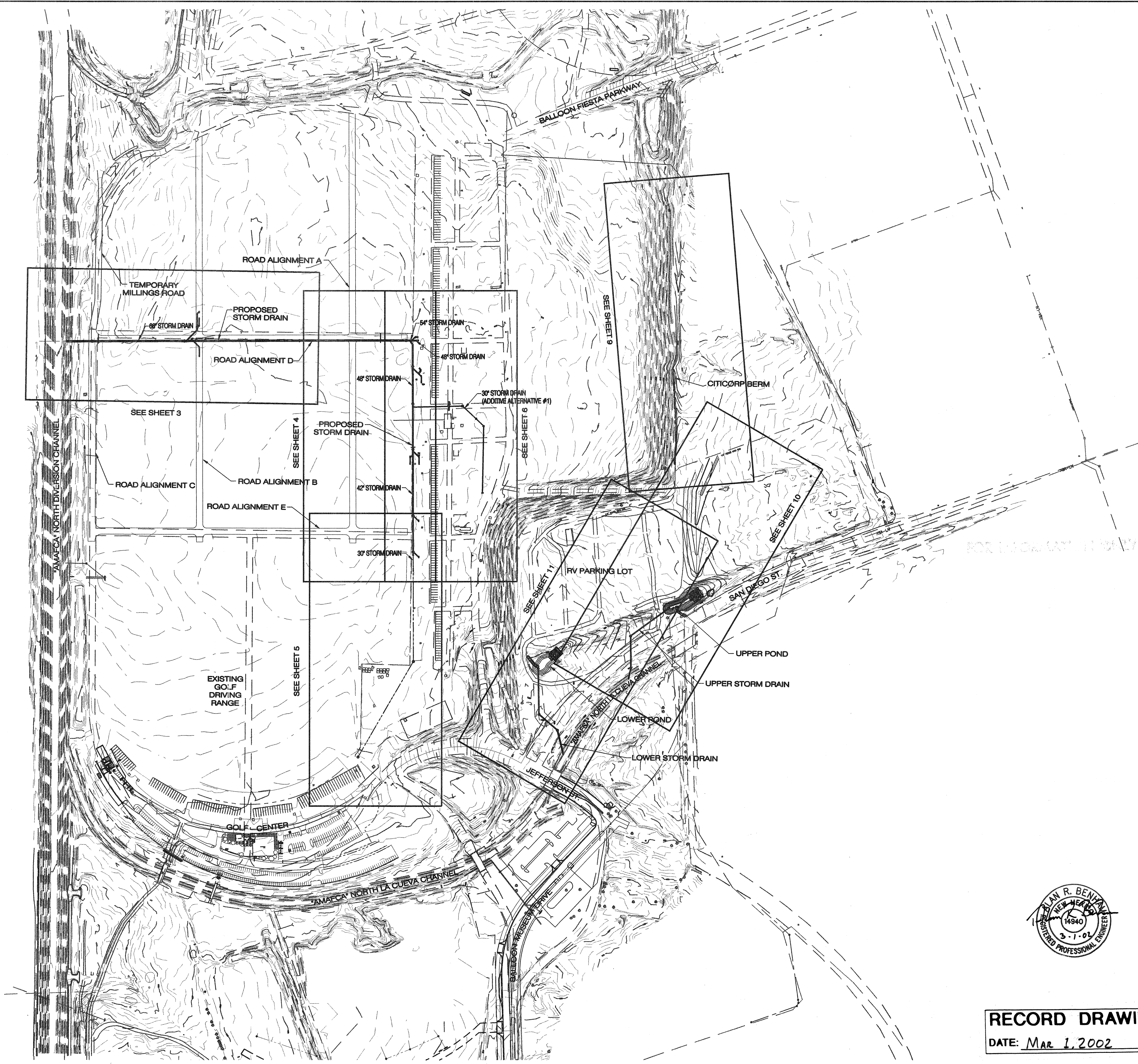
DATE: MAR 1, 2002

Bohannon - Huston

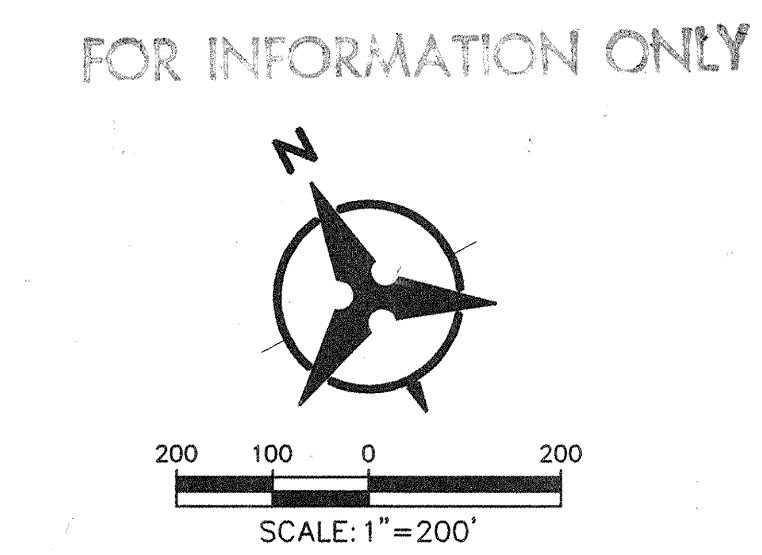
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS	ENGINEER	DATE	*****		
		DRC Chairman	<i>[Signature]</i>	3-12-01	APPROVED FOR CONSTRUCTION <i>[Signature]</i> 3/13/01 City Engineer Date		
		Transportation	<i>[Signature]</i>	3-12-01			
		Water/Wastewater	<i>[Signature]</i>	3-12-01			
		Hydrology	<i>[Signature]</i>	3-12-01			
		Public CIP	<i>[Signature]</i>	3-12-01			
		Const. Mgmt.					
		Const. Coord.	<i>[Signature]</i>	3-12-01			
City Project No.				6581.91	Sheet 1 of 14		



RECORD DRAWING
DATE: MAR 1, 2002



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

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

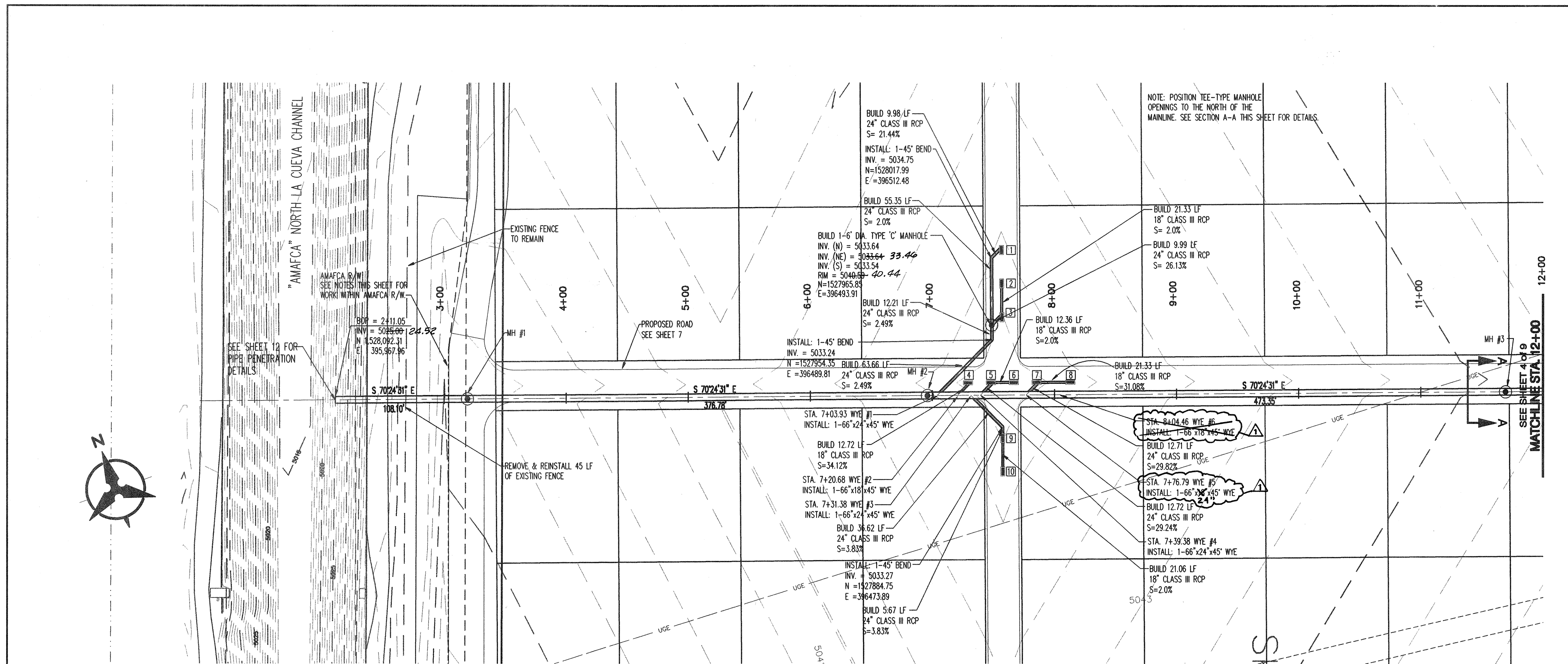
Project Title
PHASE 3 - LAUNCH FIELD INFRASTRUCTURE
SITE PLAN

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No.	Zone Map No.	Sheet	Of

6581.91 B-17-Z 2 14

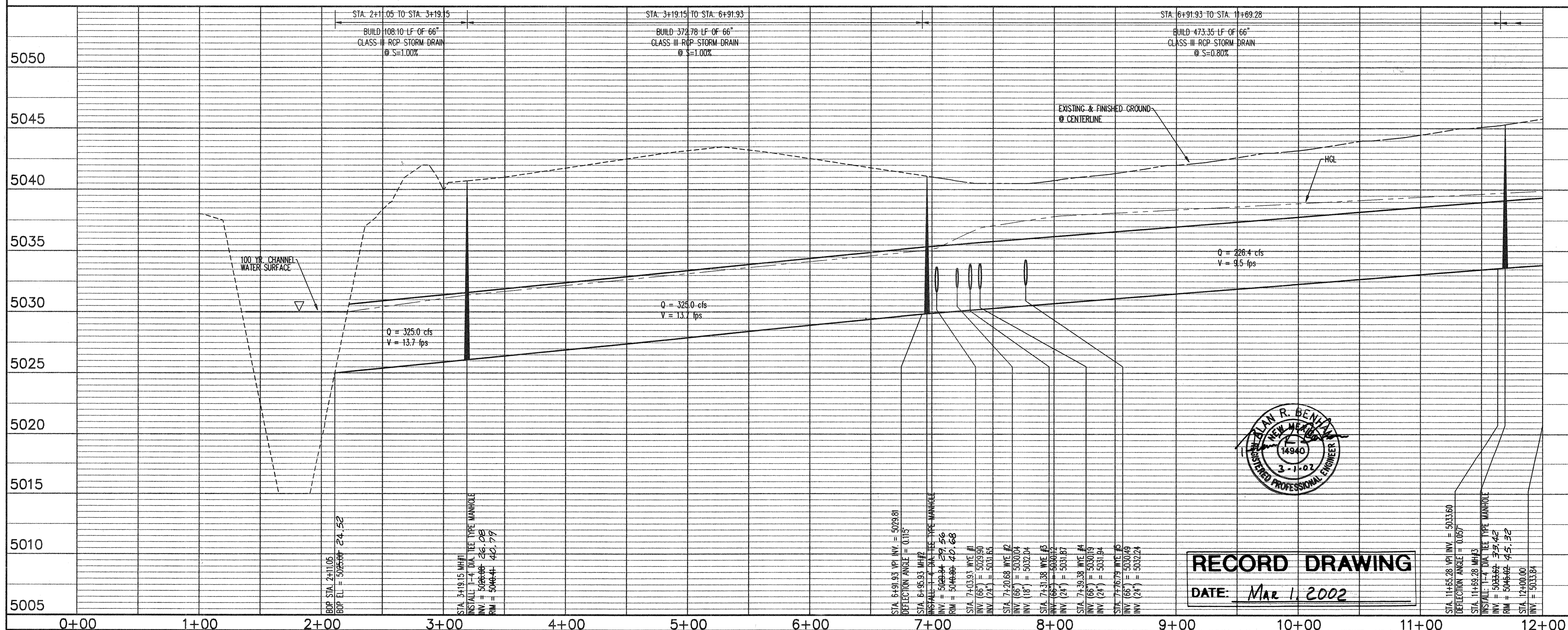
SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
NO.	BY	DATE	CONTRACTOR	DATE	NO.
	DATE				
			BY BH	DATE 10/01	
			INSPECTOR'S	DATE	
			FIELD	DATE	
			CORRECTION BY BH	DATE 10/01	
			MICRO-FILM INFORMATION		
			RECORDED BY		
			NO.		

ENGINEER'S SEAL		REMARKS		By	
		REVISIONS		DATE: 2/27/01	
		DESIGN		DATE: 2/27/01	
		Drawn By: J.M.G./TONYM		DATE: 2/27/01	
		Checked By: J.M.G./C.W.H.		DATE: 2/27/01	



STORM DRAIN: STA. 2+11.05 TO STA. 12+00

FOR INFORMATION ONLY



- NOTES:
- STATIONING IS ALONG CENTERLINE OF STORM DRAIN, UNLESS OTHERWISE NOTED.
 - ALL MANHOLE FRAMES AND COVERS SHALL BE PER CITY STANDARDS DRAWINGS 2110.
 - SEE DETAIL SHEET 13 FOR TEE TYPE MANHOLE DETAILS. SEE DETAIL SHEET 13 FOR WYE DETAIL.
 - ALL HORIZONTAL AND VERTICAL BENDS SHALL BE CONSTRUCTED WITH PRECAST BENDS OR BEVELED PIPE. DEFLECTIONS OF JOINTS ARE ALLOWED ONLY WHERE INDICATED.
 - SEE DETAIL SHEET 13 FOR TYPICAL TRENCH SECTION.
 - CONSTRUCT 66" PIPE PENETRATION TO EXISTING NORTH LA CUEVA CHANNEL. SEE SHEET 12 FOR DETAILS.
 - MANHOLE, BEND, AND WYE COORDINATES ARE AT CENTER OF STORM DRAIN.
 - ALL DOUBLE "D" STORM INLETS SHALL BE PER CITY STANDARDS DRAWINGS 2206.

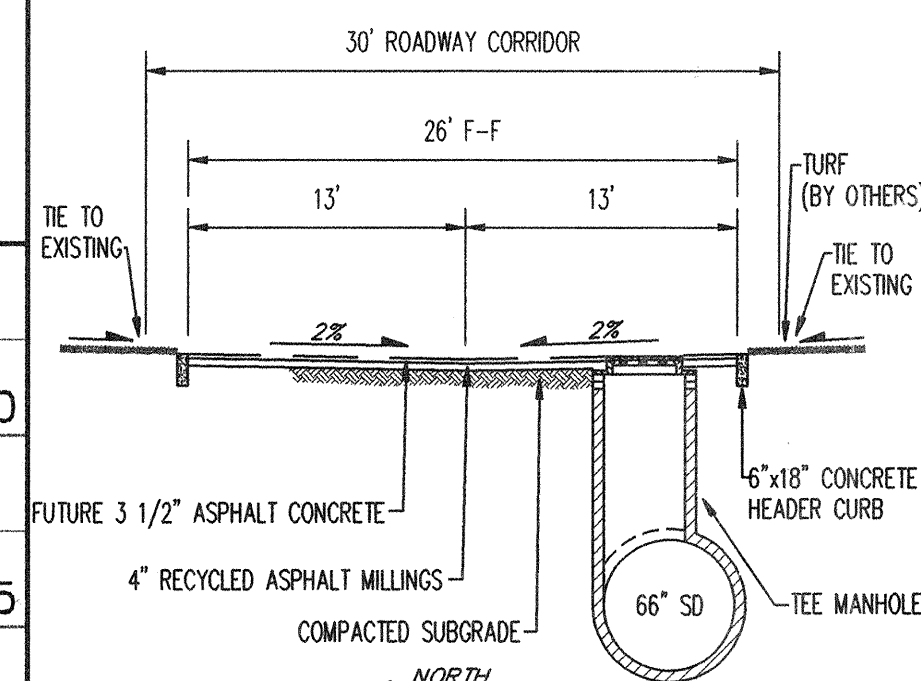
FOR WORK WITHIN AMAFCA R/W:

- AMAFCA FIELD ENGINEER SHALL BE NOTIFIED 48-HOURS PRIOR TO ANY WORK WITHIN THE AMAFCA R/W. TEL: JERRY LOVATO 884-2215.
- NO WORK WILL BE PERFORMED IN THE AMAFCA R/W BETWEEN MAY 15 AND OCTOBER 15 WITHOUT WRITTEN PERMISSION FROM AMAFCA.
- ALL SUBGRADE, BACKFILL AND EMBANKMENT SHALL BE COMPACTED TO 95% (MODIFIED PROCTOR) WITHIN THE AMAFCA R/W. TESTING REPORTS SHALL BE PROVIDED TO AMAFCA FIELD ENGINEER.
- AMAFCA FIELD ENGINEER WILL BE NOTIFIED 48-HOURS PRIOR TO FINAL INSPECTION OF ANY FACILITIES WITHIN THE AMAFCA R/W.

BUILD NOTES FOR DOUBLE "D" INLETS

INLET #	GRATE EL.	PIPE INVERT	NORTHING *	EASTING *
1	5040.60	5036.69	1528021.41	396522.52
2	5040.39	5036.68	1527995.34	396513.24
3	5040.18	5036.25 (N)	1527969.27	396503.96
4	5040.09	5036.38 (SW)	1527928.22	396459.56
5	5039.89	5035.93 (E)	1527921.95	396477.18
6	5039.89	5036.18	1527915.68	396494.79
7	5039.99	5036.28	1527909.40	396512.41
8	5040.37	5036.66	1527900.12	396538.48
9	5040.21	5035.74 (N)	1527876.43	396470.92
10	5040.40	5036.69	1527850.62	396461.73

* NORTHING & EASTING COORDINATES ARE TO CENTER OF GRATE
** MODIFIED "SMOUT" DOUBLE "D" INLET, SEE SHEET 4 FOR DETAILS.



SECTION A-A

N.T.S.	AS-BUILTS
Inlet	Grate El. Pipe Invert
1	5040.59 5036.19
2	5040.36 5036.71
3	5040.13 5036.20 (N)
4	5040.01 5035.76 (SW)
5	5039.89 5035.17
6	5039.92 5036.06
7	5040.04 5036.12
8	5040.28 5036.28
9	5039.80 5035.95 (N)
10	5040.07 5036.62

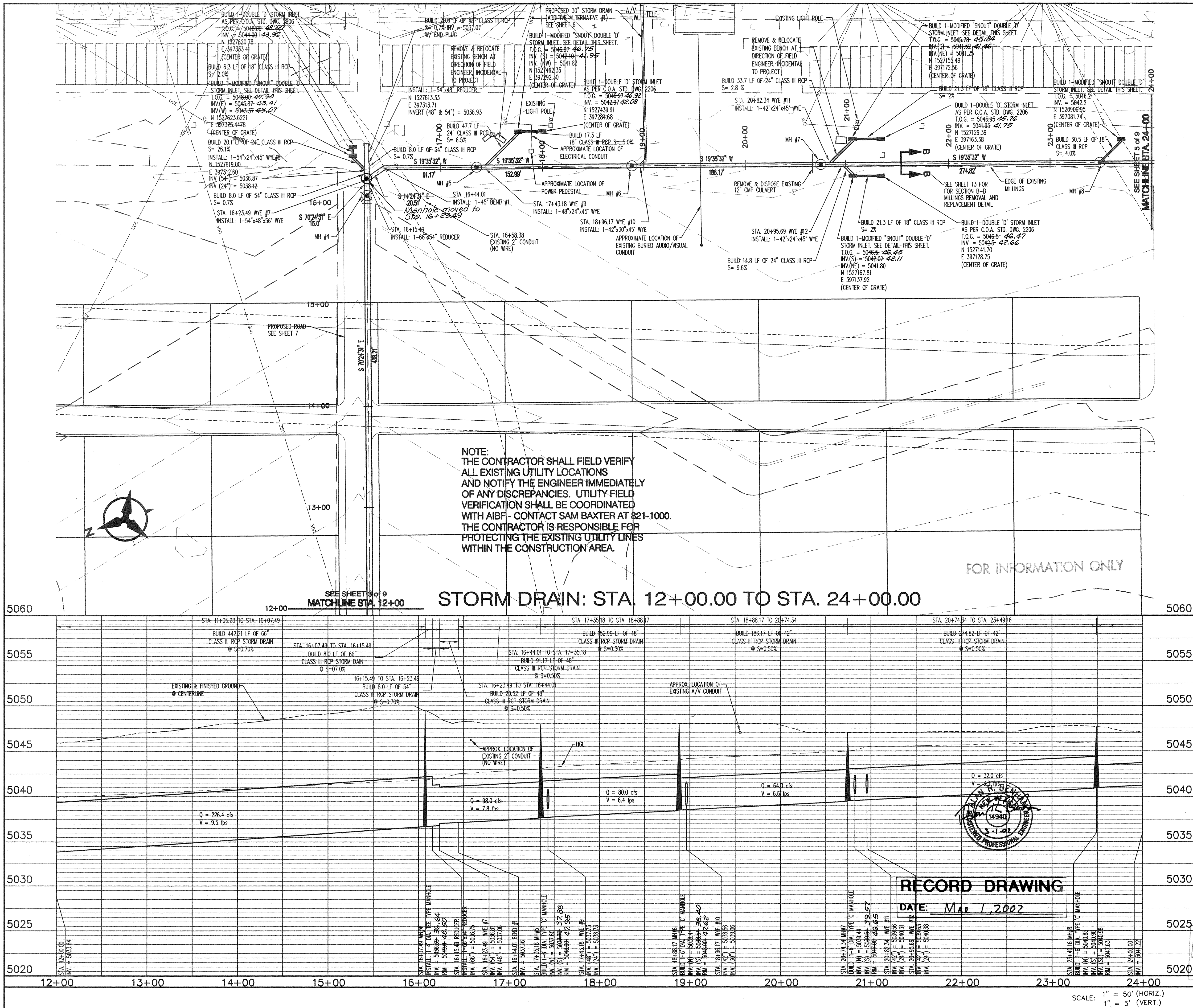
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Courtyard One 7500 JEFFERSON NE ALBUQUERQUE NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

BALLOON FIESTA PARK
PHASE 3 - LAUNCH FIELD STORM DRAIN
PLAN & PROFILE STA. 2+11.05 TO 12+00

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED MAR 1 2 2001	APPROVED MAR 1 2 2001		
CITY PROJECT NO.	CITY ENGINEER	Sheet	Of
6581.91	B-17-Z	3	14



NOTES:

- STATIONING IS ALONG CENTERLINE OF STORM DRAIN, UNLESS OTHERWISE NOTED.
- ALL MANHOLE FRAMES AND COVERS SHALL BE PER CITY STANDARDS DRAWINGS 2110.
- SEE DETAIL SHEET 13 FOR TEE TYPE MANHOLE DETAILS. SEE DETAIL SHEET 13 FOR WYE DETAIL.
- ALL HORIZONTAL AND VERTICAL BENDS SHALL BE CONSTRUCTED WITH PRECAST BENDS OR BEVELED PIPE. DEFLECTIONS OF JOINTS ARE ALLOWED ONLY WHERE INDICATED.
- SEE DETAIL SHEET 13 FOR TYPICAL TRENCH SECTION.
- MANHOLE, BEND, AND WYE COORDINATES ARE AT CENTER OF STORM DRAIN.
- SEE SHEET 13 FOR MILLINGS REMOVAL AND REPLACEMENT DETAILS.
- ALL DOUBLE "D" STORM INLETS SHALL BE PER CITY STANDARDS DRAWINGS 2206.

ENGINEER'S SEAL

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

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

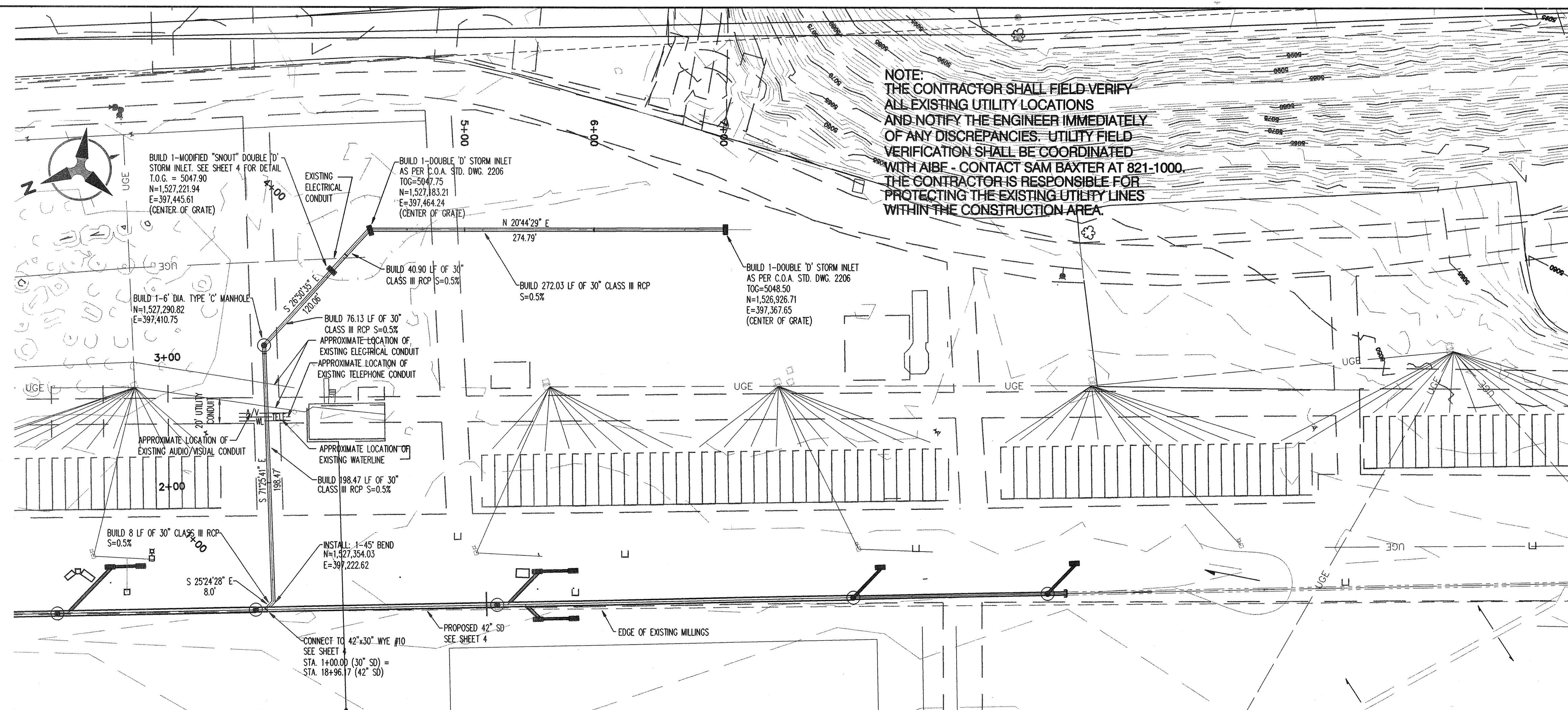
BALLOON FIESTA PARK
PHASE 3 - LAUNCH FIELD STORM DRAIN
PLAN & PROFILE STA. 12+00 TO STA. 24+00

DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL
DATE: MAR 12 2002

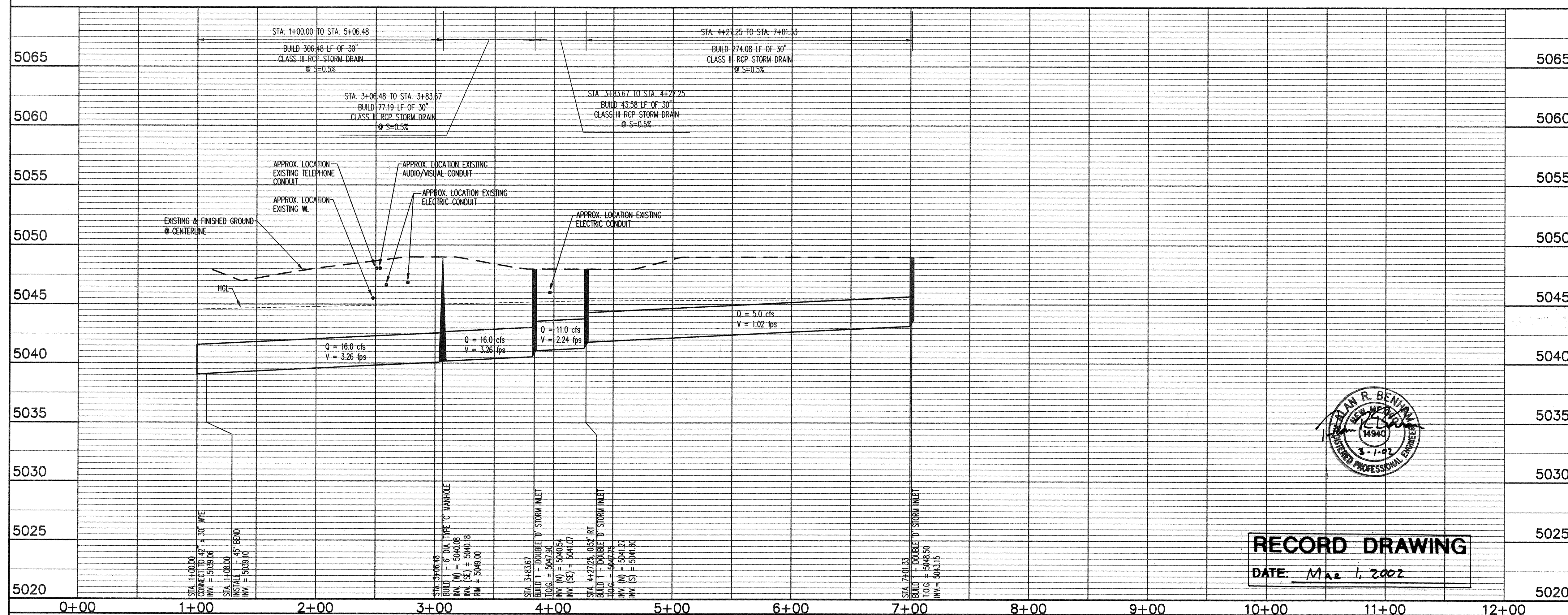
REMARKS
REVISIONS
DESIGN

DATE: 12/07/00
DATE: 12/07/00
DATE: 12/07/00

City Project No. 6581.91
Zone Map No. B-17-Z
Sheet 4 of 14
Date: 01.30.01



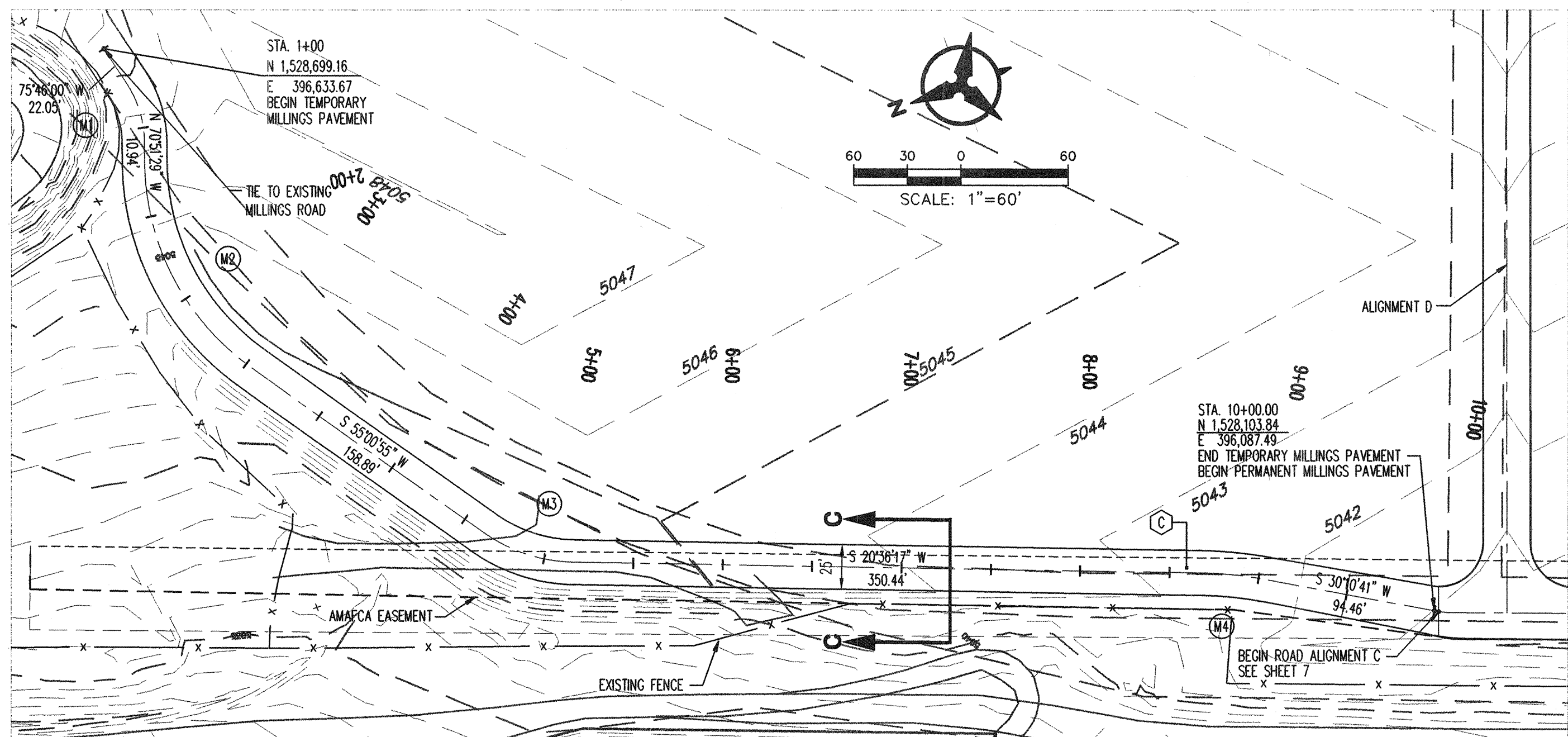
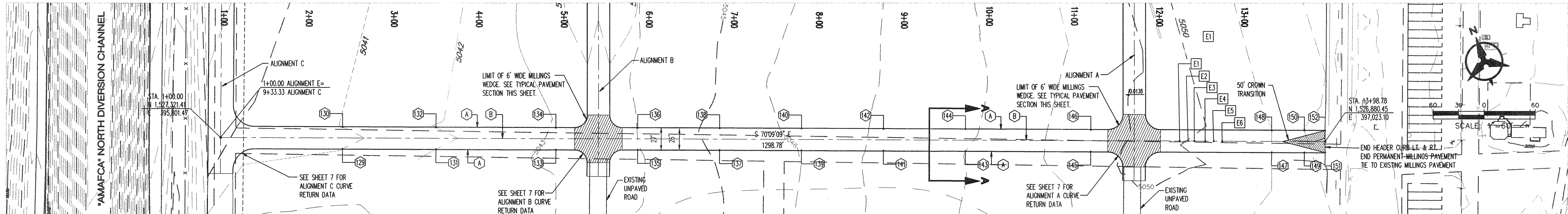
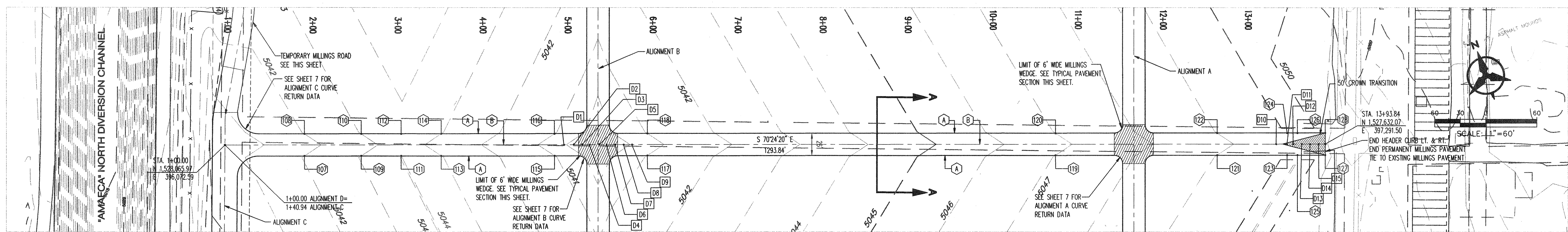
ADDITIVE ALTERNATE #1 - 30" LATERAL STORM DRAIN



NOTES:

1. STATIONING IS ALONG CENTERLINE OF STORM DRAIN, UNLESS OTHERWISE NOTED.
2. ALL MANHOLE FRAMES AND COVERS SHALL BE PER CITY STANDARDS DRAWINGS 2110.
3. ALL HORIZONTAL AND VERTICAL BENDS SHALL BE CONSTRUCTED WITH PRECAST BENDS OR BEVELED PIPE. DEFLECTIONS OF JOINTS ARE ALLOWED ONLY WHERE INDICATED.
4. SEE DETAIL SHEET 13 FOR TYPICAL TRENCH SECTION.
5. MANHOLE, BEND, AND WYE COORDINATES ARE AT CENTER OF STORM DRAIN.

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
		FIELD NOTES		BM#1 APPROX. 72' NORTH AND EAST OF INTERSECTION OF SAN DIEGO AND JEFFERSON BETWEEN TWO TIMBER POWER POLES; 8" ALUMINUM CAP IN CONCRETE STAMPED "B#27, LS6544, 1984". X=397188.8841, Y=1525924.7813 ELEV. =5092.93. BM#2 APPROX. 117' NORTH OF NORTHERN MOST HORIZONTAL P.I. IN BOUNDARY FENCE AT MIDDLE N. DIVERSION CHANNEL RUNDOWN, APPROX. 3' EAST OF BOUNDARY FENCE. 2" UNMARKED ALUMINUM CAP.		CONTRACTOR <i>J.R. Hale</i>	
		NO.	BY	DATE	WORK STARTED BY <i>BH</i>	DATE <i>10/10/01</i>	
No.	Date	REMARKS	By	INSPECTOR'S FIELD VERIFICATION BY <i>BH</i>		DATE <i>10/10/01</i>	
DESIGNED BY: 01/30/01		DATE: J.M.G.		MICRO-FILM INFORMATION		RECORDED BY	
DRAWN BY: S.F.G.		DATE: 01/30/01				NO	
CHECKED BY: J.M.G./C.W.H.		DATE: 01/30/01					



TEMPORARY MILLINGS ROAD

- NOTES:**
- SEE SHEET 7 FOR LAUNCH FIELD ROADS CURVE DATA.
 - ALL ELEVATIONS ARE TOP OF CURB UNLESS OTHERWISE NOTED.
 - TOP OF PAVEMENT ELEVATIONS WILL BE USED TO DETERMINE TOP OF MILLINGS ELEVATIONS (i.e. TP - 3.5' = TM).

ALIGNMENT D* D* VERTICAL CURVE DATA

#	STATION	OFFSET	TP ELEVATION	NOTE
D1	4+98.82	0	5040.54	VPC
D2	5+08.82	0	5040.38	
D3	5+18.82	0	5040.27	
D4	5+28.82	0	5040.19	
D5	5+38.82	0	5040.16	
D6	5+48.82	0	5040.18	
D7	5+58.82	0	5040.20	
D8	5+68.82	0	5040.28	
D9	5+78.82	0	5040.41	VPT
D10	13+36.12	0	5049.47	VPC
D11	13+48.98	0	5049.54	VPI
D12	13+56.12	0	5049.52	
D13	13+66.12	0	5049.42	
D14	13+76.12	0	5049.24	
D15	13+86.12	0	5049.10	VPT

ALIGNMENT D

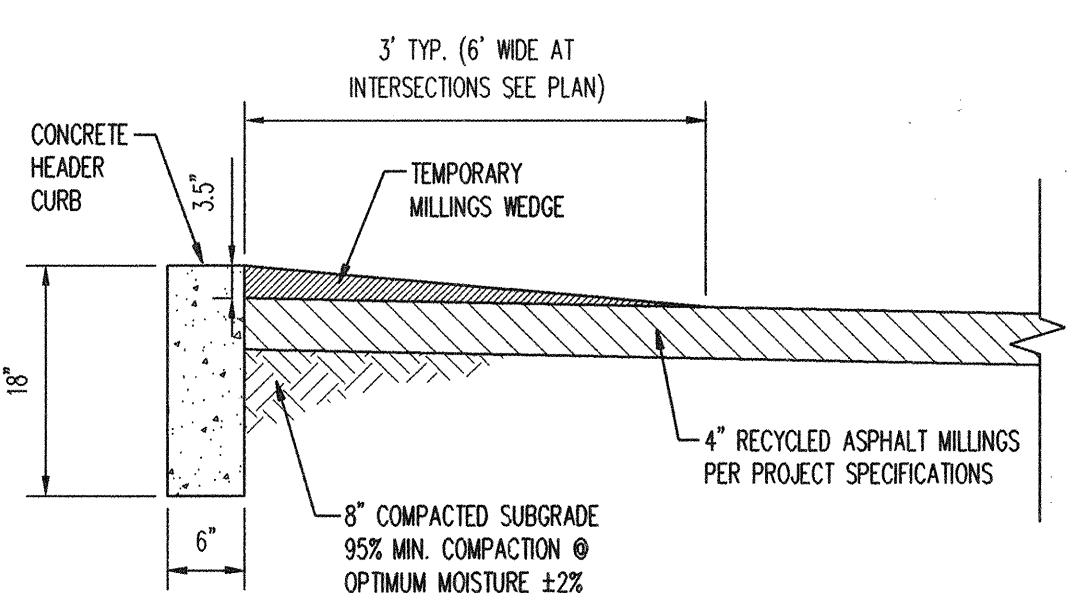
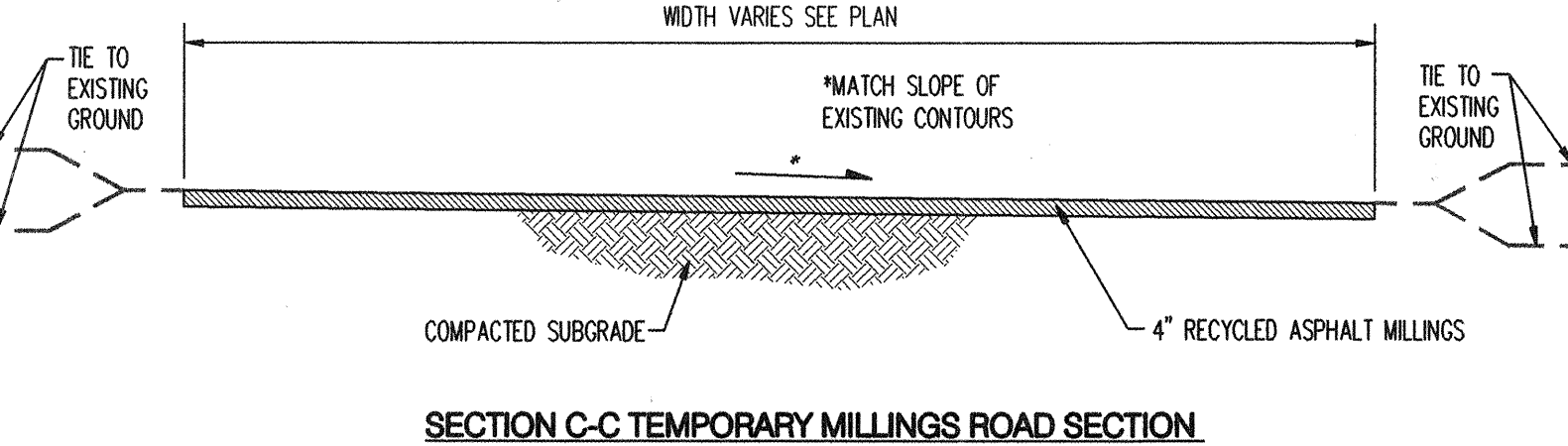
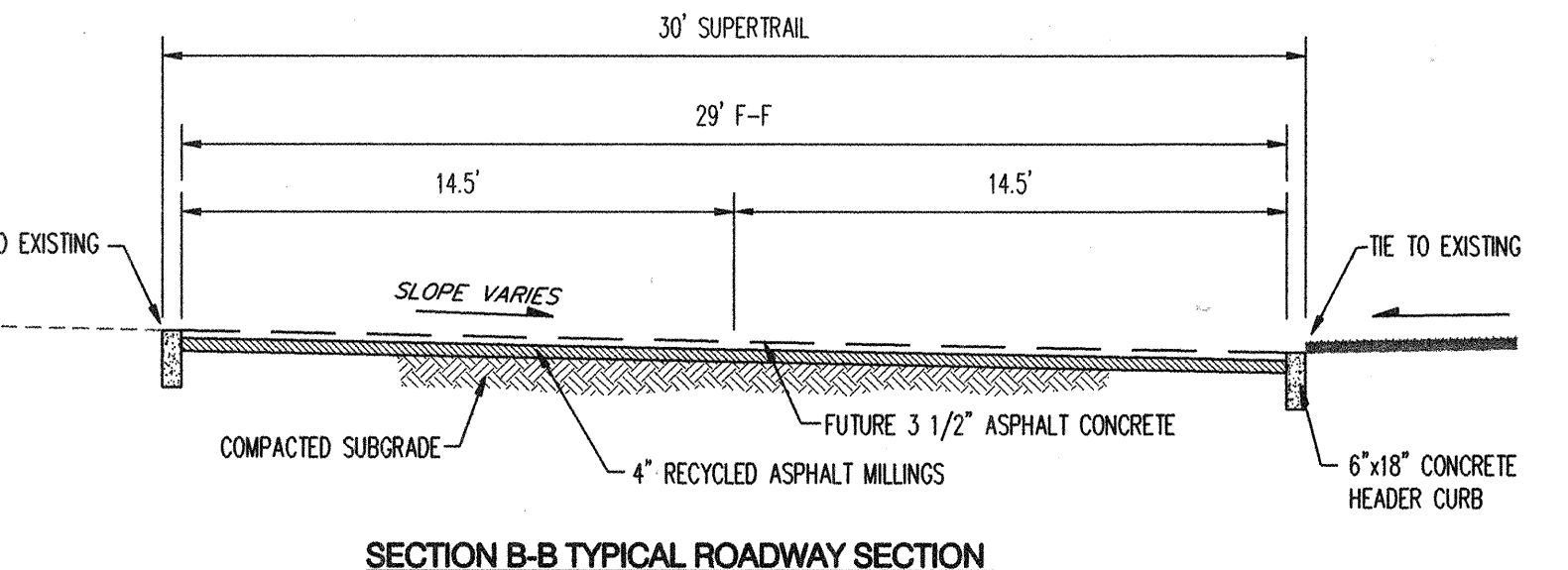
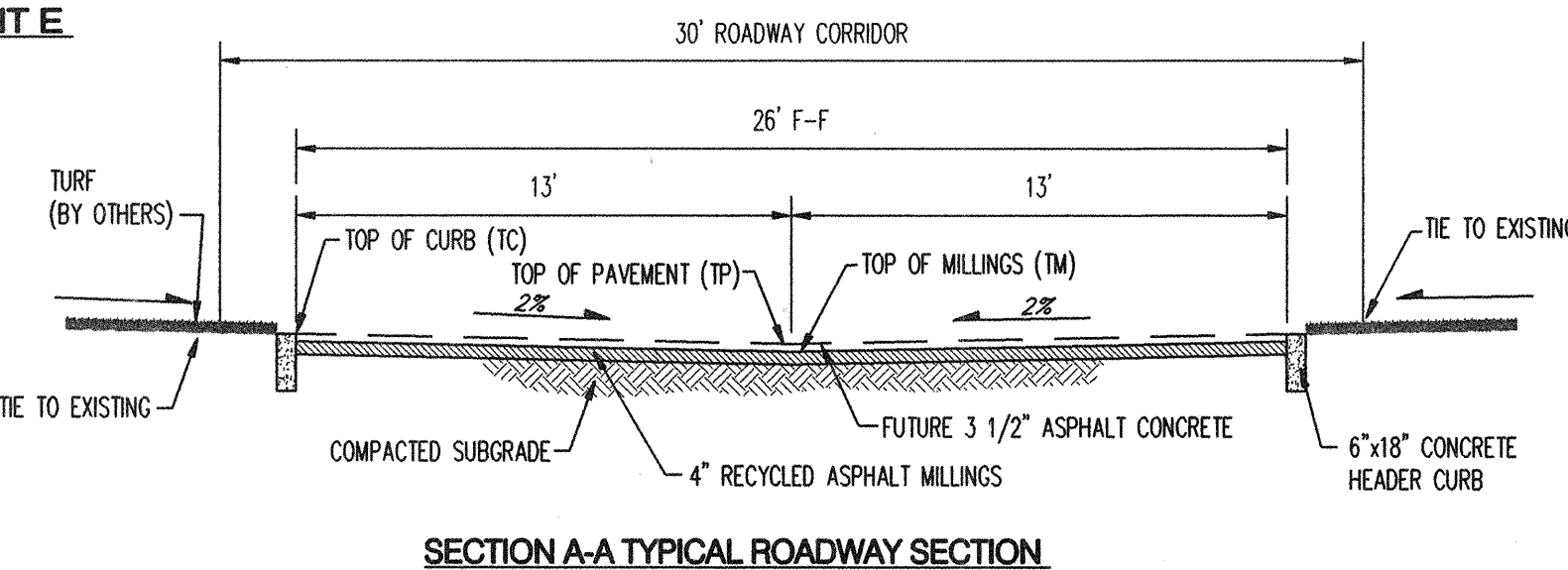
#	STATION	OFFSET	ELEVATION
107	1+93.47	13.00' RT.	5042.00
108	1+93.47	13.00' LT.	5042.00
109	2+60.15	13.00' RT.	5043.00
110	2+60.15	13.00' LT.	5043.00
111	3+07.15	13.00' RT.	5043.50
112	3+07.15	13.00' LT.	5043.50
113	3+54.17	13.00' RT.	5043.00
114	3+54.17	13.00' LT.	5043.00
115	4+87.49	13.00' RT.	5043.00
116	4+87.49	13.00' LT.	5043.00
117	5+96.82	13.00' RT.	5041.00
118	5+96.82	13.00' LT.	5041.00
119	10+76.83	13.00' RT.	5047.00
120	10+76.83	13.00' LT.	5047.00
121	12+66.80	13.00' RT.	5049.00
122	12+66.80	13.00' LT.	5049.00
123	13+48.98	13.00' RT.	5049.80
124	13+48.98	13.00' LT.	5049.80
125	13+61.12	13.00' RT.	5050.00
126	13+61.12	13.00' LT.	5050.00
127	13+83.84	13.00' RT.	5048.00
128	13+83.84	13.00' LT.	5048.00

ALIGNMENT E

#	STATION	OFFSET	ELEVATION
129	2+43.25	13.00' RT.	5041.00
130	2+43.25	13.00' LT.	5041.00
131	3+53.14	13.00' RT.	5042.00
132	3+53.14	13.00' LT.	5042.00
133	4+94.27	13.00' RT.	5043.00
134	4+94.27	13.00' LT.	5043.00
135	5+90.47	13.00' RT.	5044.00
136	5+90.47	13.00' LT.	5044.00
137	6+86.81	13.00' RT.	5045.00
138	6+86.81	13.00' LT.	5045.00
139	7+83.15	13.00' RT.	5046.00
140	7+83.15	13.00' LT.	5046.00
141	8+79.49	13.00' RT.	5047.00
142	8+79.49	13.00' LT.	5047.00
143	9+75.83	13.00' RT.	5048.00
144	9+75.83	13.00' LT.	5048.00
145	11+23.29	13.00' RT.	5049.00
146	11+23.29	13.00' LT.	5049.00
147	13+35.96	13.00' RT.	5049.00
148	13+35.96	13.00' LT.	5049.00
149	13+74.34	13.00' RT.	5048.00
150	13+74.34	13.00' LT.	5048.00
151	13+98.78	13.00' RT.	5047.88
152	13+98.78	13.00' LT.	5047.88

TEMPORARY MILLINGS ROAD CENTERLINE CURVE DATA

LEGEND	KEYED NOTES
PROPOSED ROAD	(A) BUILD 6"x18" CONCRETE HEADER CURB
EXISTING CONTOURS	(B) BUILD PERMANENT MILLINGS PAVEMENT, PER SECTION A-A TYPICAL ROADWAY SECTION SHEET 8.
EXISTING BALLOON PARK FEATURES	(C) BUILD TEMPORARY MILLINGS PAVEMENT
CURVE DATA	
VERTICAL CURVE DATA	
ALIGNMENT STATION & OFFSET	
KEYED NOTE	
TP	TOP OF PAVEMENT (ASPHALT PAVEMENT)
TM	TOP OF MILLINGS (MILLINGS PAVEMENT)
TC	TOP OF CURB



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PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

BALLOON FIESTA PARK
PHASE 3 - LAUNCH FIELD INFRASTRUCTURE
EAST-WEST ROAD LAYOUT & TEMPORARY MILLINGS ROAD

Design Review Committee City Engineer Approval
APPROVED MAR 12 2001 APPROVED MAR 12 2001
DESIGN REVIEW COMMITTEE CITY ENGINEER

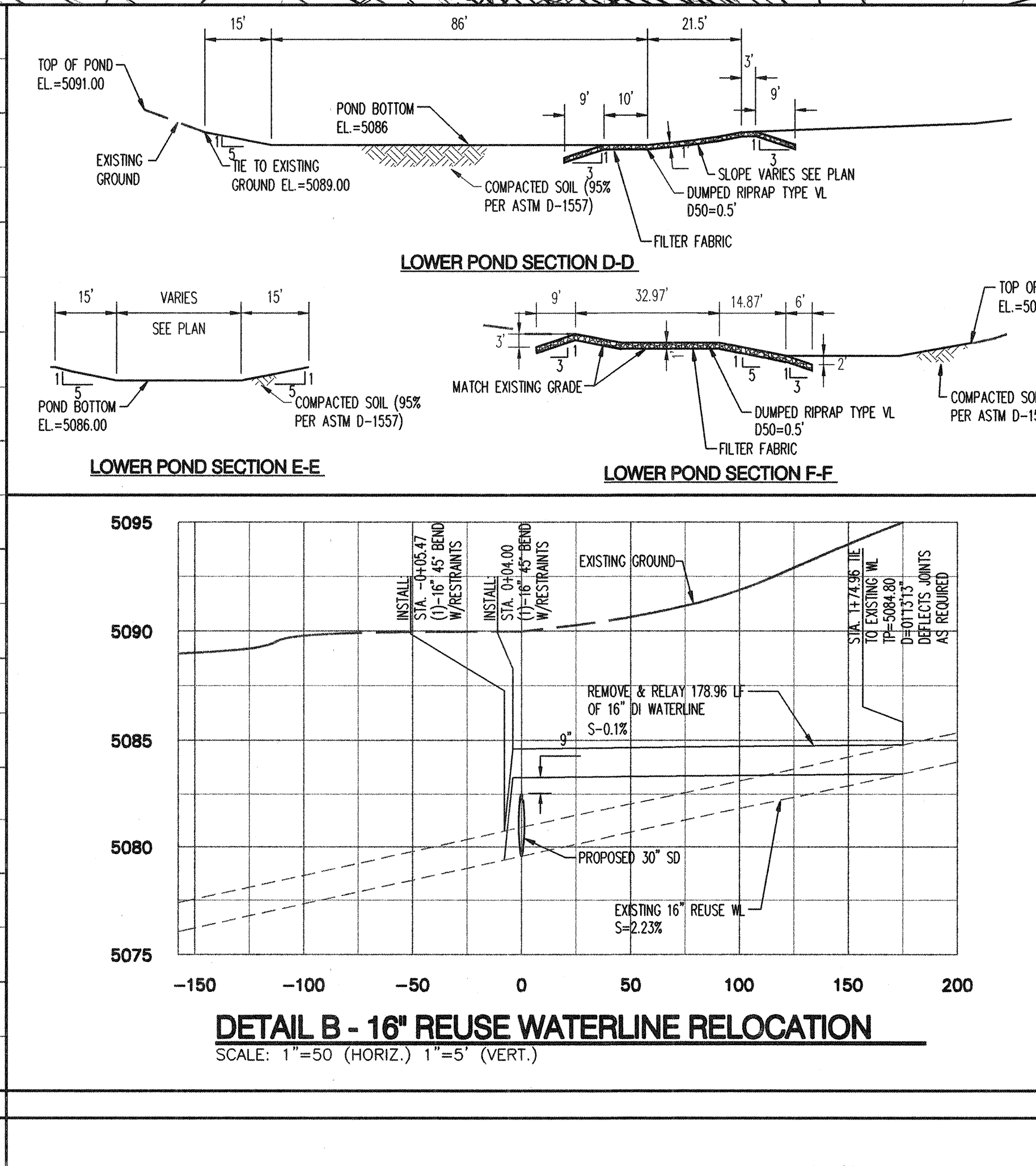
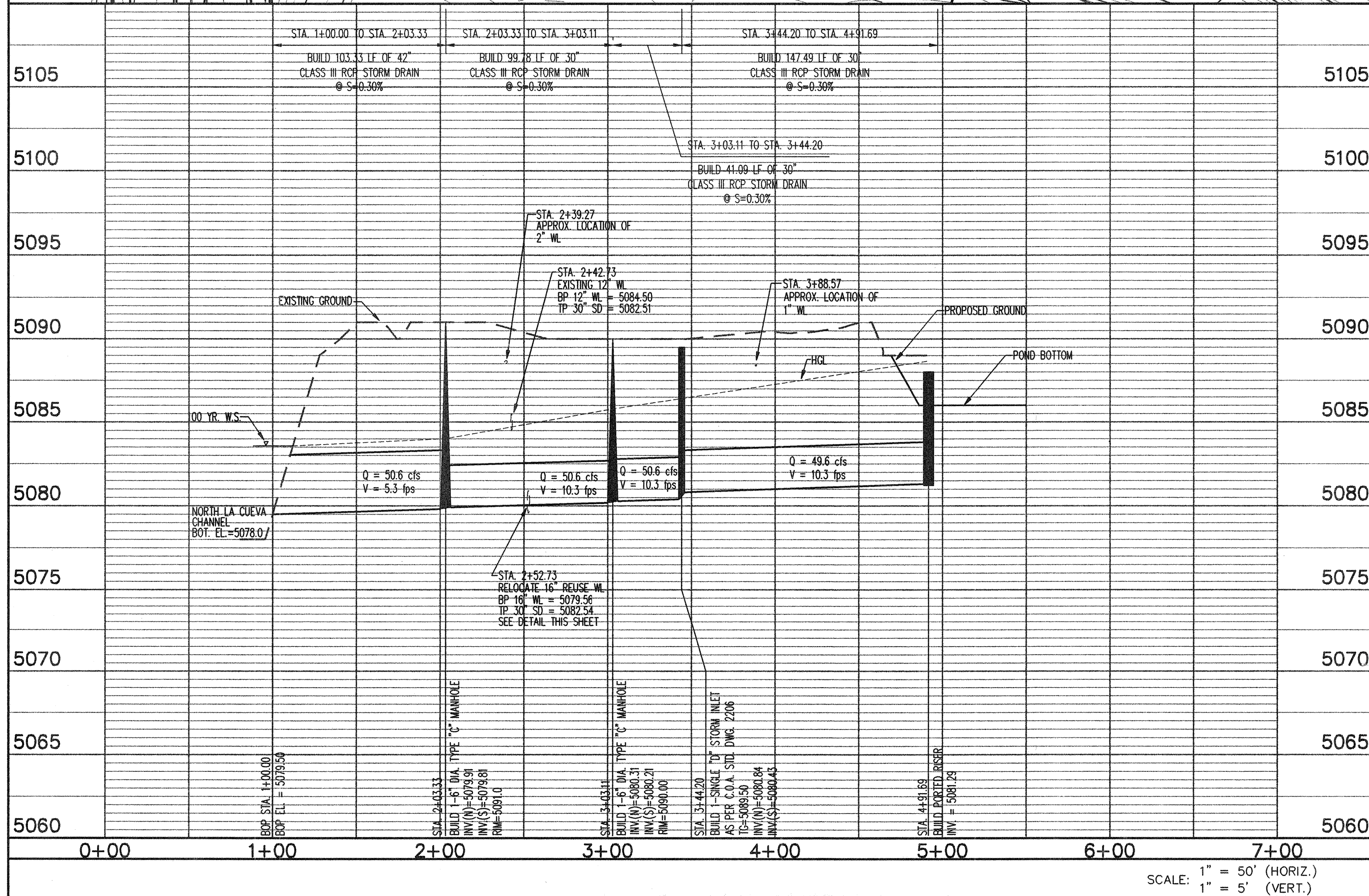
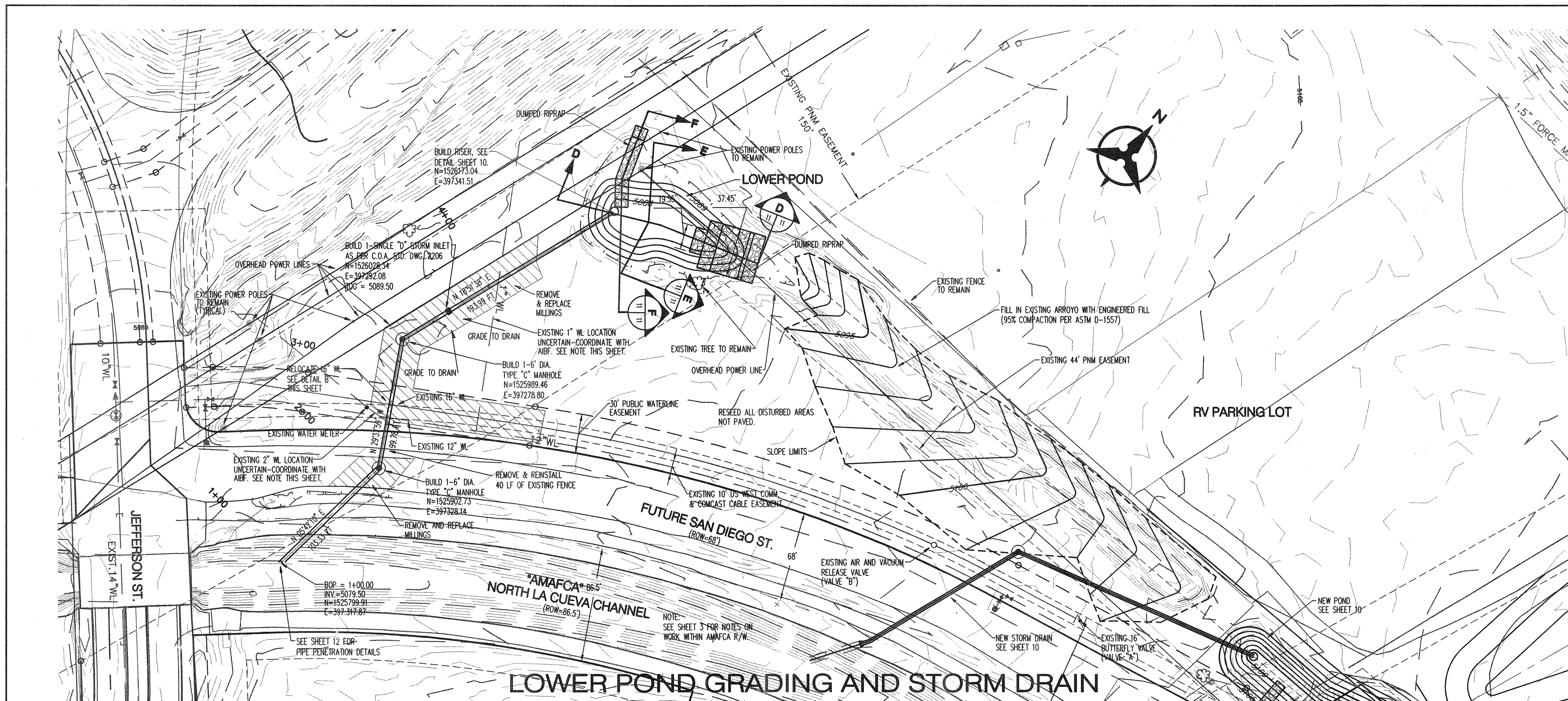
City Project No. 6581.91 Zone Map No. B-17-Z Sheet 8 Of 14

AS-BUILT INFORMATION
CONTRACTOR: J.R. Hale DATE: 10/01/01
INSPECTOR: BH DATE: 10/01/01
FIELD VERIFICATION BY: BH DATE: 10/01/01
CORRECTED BY: BH DATE: 10/01/01
MICRO-FILM INFORMATION
RECORDED BY: DATE: 10/01/01
NO. 1

FIELD NOTES
NO. BY DATE
BM#1 APPROX. 72' NORTH AND EAST OF INTERSECTION OF SAN DIEGO AND JEFFERSON BETWEEN TWO TIMBER POWER POLES: 8" ALUMINUM CAP IN CONCRETE STAMPED "BH27".
LS6544, 1984" X=397188.8841, Y=1525924.7813 ELEV. =5092.93. BM#2 APPROX. 117' NORTH OF NORTHERN MOST HORIZONTAL P.I. IN BOUNDARY FENCE AT MIDDLE N. DIVERSION CHANNEL RUNDOWN, APPROX. 3' EAST OF BOUNDARY FENCE. 2" UNMARKED ALUMINUM CAP X=395759.6322, Y=1527318.8546, ELEV.=5044.55

ENGINEER'S SEAL
J. R. BOHANN
REGISTERED PROFESSIONAL ENGINEER
11889

REVISIONS
No. Date By
DESIGN DATE: 01/09/01
REVISIONS DATE: 01/09/01
DATE: 01/09/01



NOTES:

- ALL MANHOLE FRAMES AND COVERS SHALL BE PER CITY STANDARDS DRAWINGS 2110.
- ALL HORIZONTAL AND VERTICAL BENDS SHALL BE CONSTRUCTED WITH PRECAST BENDS OR BEVELED PIPE. DEFLECTIONS OF JOINTS ARE ALLOWED ONLY WHERE INDICATED.
- SEE DETAIL SHEET 13 FOR TYPICAL TRENCH SECTION.
- MANHOLE, BEND, AND WYE COORDINATES ARE AT CENTER OF STORM DRAIN.
- CONTRACTOR SHALL USE CAUTION WHILE WORKING UNDER HIGH VOLTAGE POWER LINES AND AROUND POWER POLES.

RESTRAINED JOINT TABLE

MECHANICAL JOINT	16" DI	NOTE
45° BEND	27"	UPPER BEND
45° BEND	12"	LOWER BEND

RESTRAINED JOINT NOTES:

- ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
- THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 15 LF FROM ALL MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 15 LF OF A M.J. SHALL BE RESTRAINED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ABOVE.

16" REUSE WATERLINE SHUT-OFF PLAN

- CLOSE 16" BUTTERFLY VALVE (VALVE "A") LOCATED APPROXIMATELY 550 FEET EAST OF 16" REUSE WATERLINE RELOCATION (SEE THIS SHEET FOR 16" BUTTERFLY VALVE LOCATION).
- RELIEVE PRESSURE ON LINE BY ACTIVATING GOLF RANGE SPRINKLER SYSTEM. CONTRACTOR TO COORDINATE WITH NEW MEXICO GOLF ACADEMY (NMGA) - CONTACT DALE SCOTT AT 259-2229.
- REMOVE AND REPLACE 16" REUSE WATERLINE AS SHOWN ON THIS SHEET.
- SLOWLY OPEN 16" BUTTERFLY VALVE (VALVE "A") AND OPEN VACUUM RELEASE VALVE ASSEMBLY (VALVE "B") LOCATED APPROXIMATELY 430 FEET EAST OF 16" REUSE WATERLINE RELOCATION (SEE THIS SHEET FOR AIR AND VACUUM RELEASE VALVE LOCATION) TO RELIEVE AIR IN WATERLINE.
- TEST - AS PER C.O.A. STANDARD SPECIFICATIONS - THE RECONSTRUCTED 16" REUSE WATERLINE.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMING AND COORDINATION OF WATER SHUT-OFF REQUIREMENTS IN CONJUNCTION WITH THE COMPLETION OF THE PROJECT.

AT LEAST THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT PWD/WATER SYSTEM DIVISION (857-8200) AND NMGA (259-2229) TO INITIATE IMPLEMENTATION OF THIS WATER SHUT-OFF PLAN.

THIS CONSTRUCTION SEQUENCE IS ONLY A RECOMMENDED CONSTRUCTION ORDER. THE CONTRACTOR RETAINS FULL RESPONSIBILITY FOR DEVELOPING AN ACCEPTABLE CONSTRUCTION SCHEDULE.

NOTE:

THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES. UTILITY FIELD VERIFICATION SHALL BE COORDINATED WITH AIBF - CONTACT SAM BAXTER AT 821-1000. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA.

FOR INFORMATION ONLY

RECORD DRAWING

DATE: MAR 1, 2002

Bohannon & Huston

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CITY OF ALBUQUERQUE

PUBLIC WORKS DEPARTMENT

ENGINEERING DEVELOPMENT GROUP

BALLOON FIESTA PARK

LOWER POND STORM DRAIN PLAN AND PROFILE

STA. 1+00.00 TO STA. 4+91.69

Design Review Committee: **APPROVED** MAR 1 2 2001
City Engineer: **APPROVED** MAR 1 2 2001

City Project No. **6581.91** Zone Map No. **B-17-Z** Sheet **11** of **14**

AS-BUILT INFORMATION

CONTRACTOR: **J.R. Hob** DATE: **10/01**

STANDARD BY: **BH** DATE: **10/01**

INSPECTOR'S NAME: **BY** DATE: **10/01**

FIELD VERIFICATION BY: **BH** DATE: **10/01**

CORRECTED BY: **BH** DATE: **10/01**

RECORDED BY: **NO** DATE: **10/01**

NO. **NO**

SURVEY INFORMATION

FIELD NOTES

NO. **NO** BY **NO** DATE **NO**

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER

DATE: **02/26/01**

DATE: **02/26/01**

DATE: **02/26/01**

REMARKS

REVISIONS

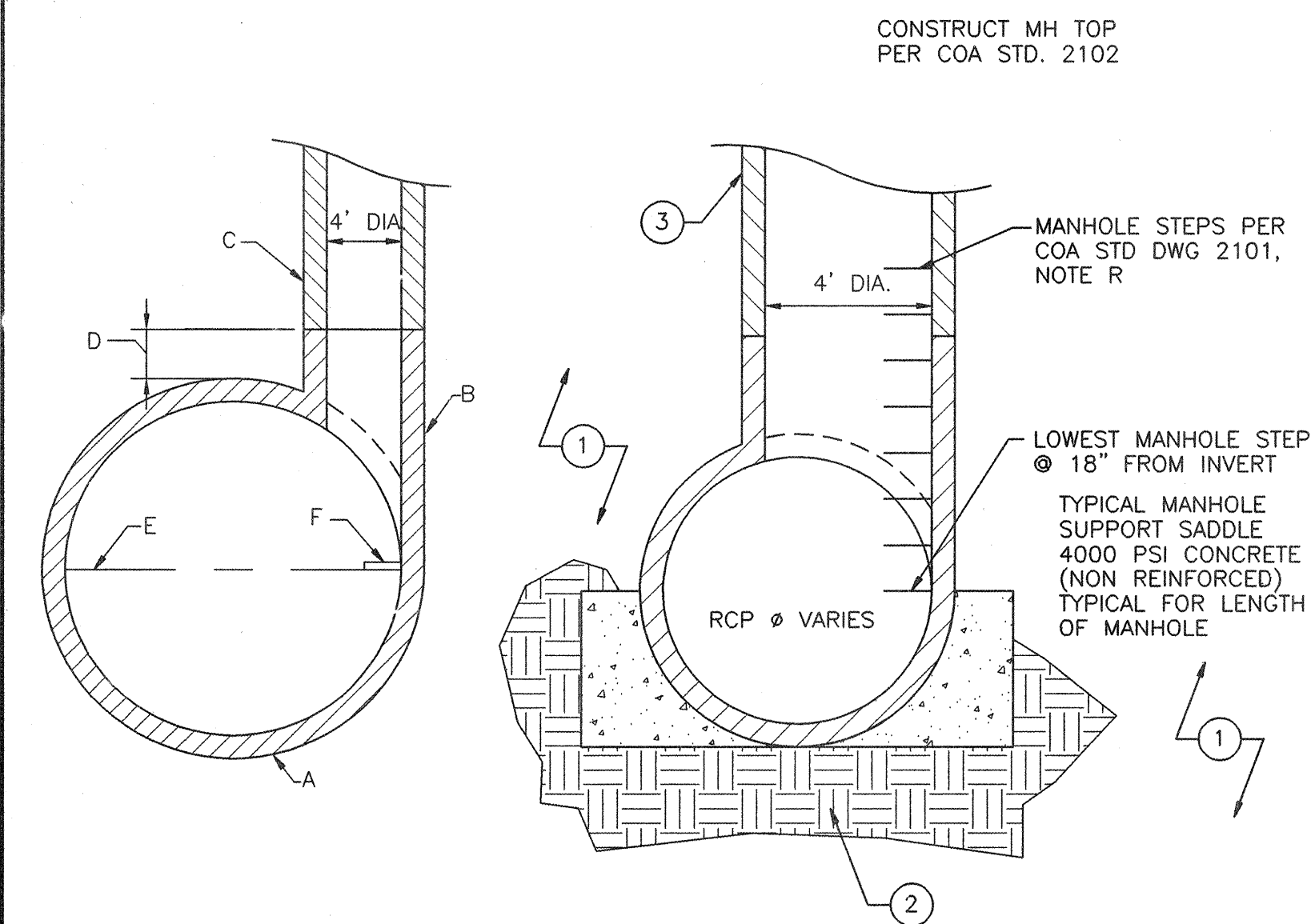
DESIGN

No. **NO** Date **NO**

Designed By: **J.M.G.** DATE: **02/26/01**

Drawn By: **S.F.C.** DATE: **02/26/01**

Checked By: **J.M.G./C.W.H.** DATE: **02/26/01**



TEE TYPE MANHOLE
N.T.S.

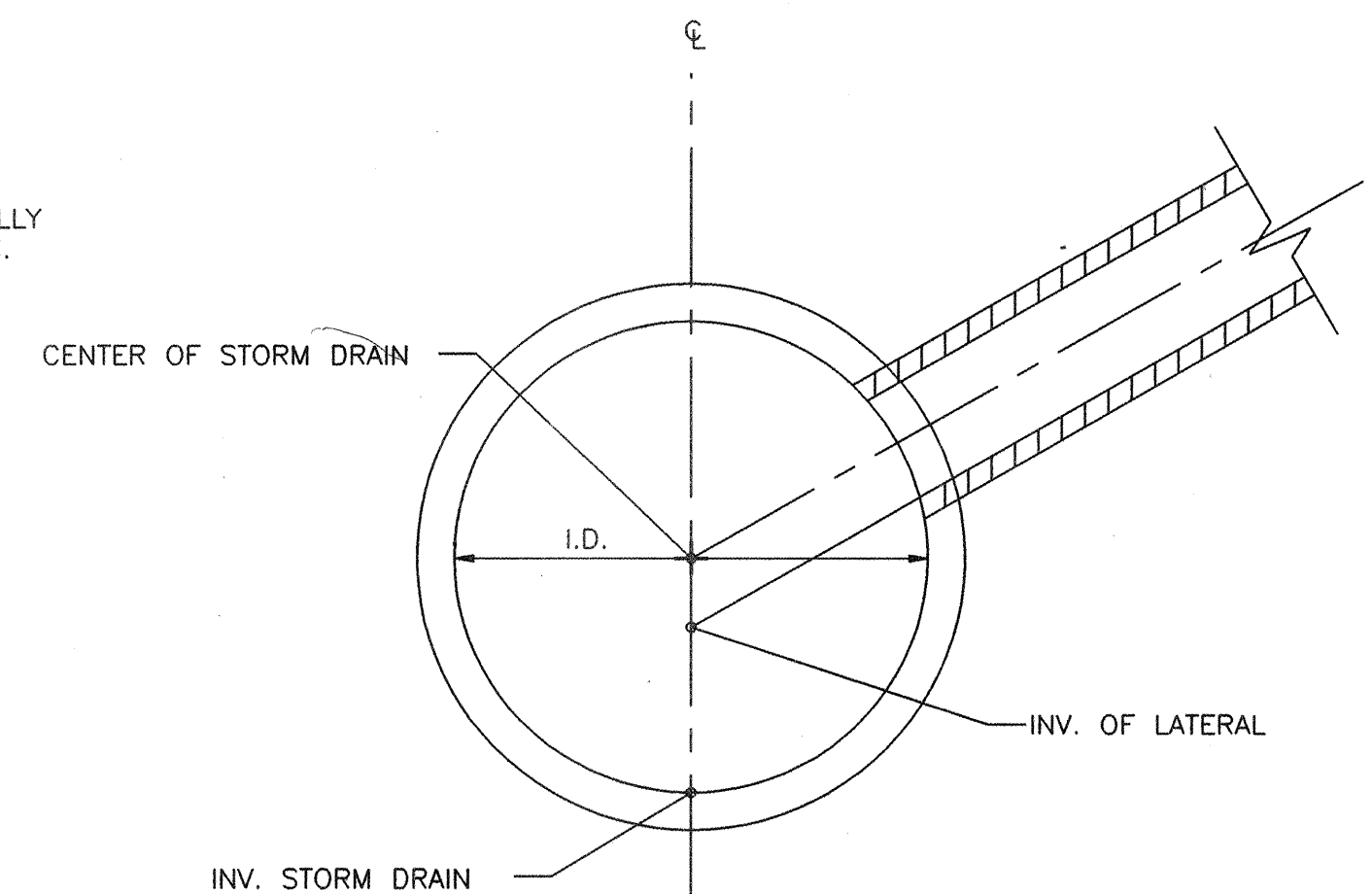
- GENERAL NOTES:**
- MANHOLE STEPS ARE REQUIRED FOR MANHOLES DEEPER THAN 6 FEET. LOWEST STEP SHOULD BE AT THE SPRINGLINE OF THE PIPE OR 18" FROM INVERT, WHICHEVER IS LOWER.
 - FIELD FABRICATION OF TEE OR ECCENTRIC PIPE UNIT WILL NOT BE ACCEPTED.
 - VERTICAL PIPE SHALL BE CENTERED LONGITUDINALLY WITHIN HORIZONTAL STORM SEWER PIPE SECTION.

CONSTRUCTION NOTES:

- STORM SEWER PIPE
- PRECAST VERTICAL PIPE
- PRECAST MANHOLE RISERS
- TOP OF VERTICAL PIPE MINIMUM 18" ABOVE SPRINGLINE
- LOWEST MANHOLE STEP

KEYED NOTES:

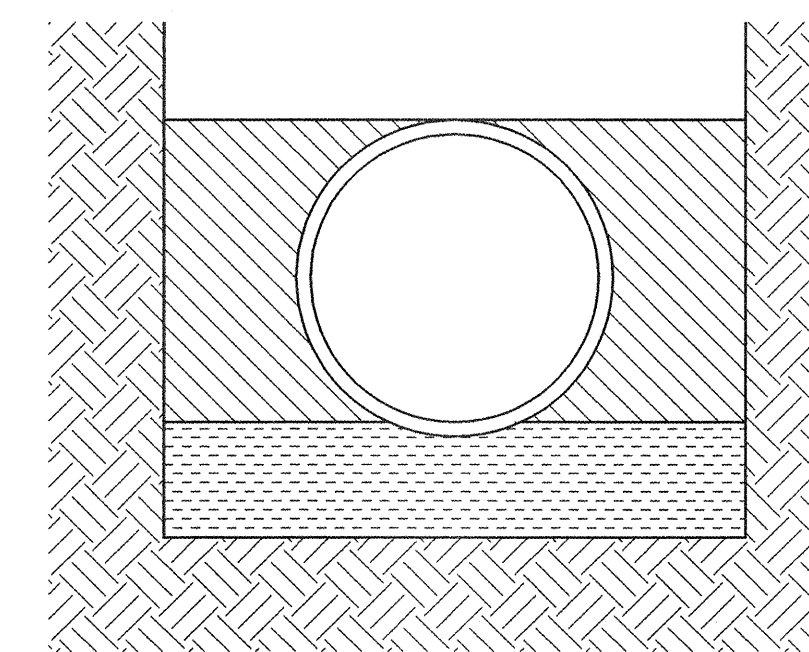
- BACKFILL COMPACTED PER COA STD SPECIFICATIONS
- 24" SUBGRADE COMPACTED TO 95% ASTM D-1557. COMPACT IN LIFTS NOT EXCEEDING 8" LOOSE.
- 4' DIA. MANHOLE RISERS AS REQUIRED.



TYPICAL WYE DETAIL SECTION
N.T.S.

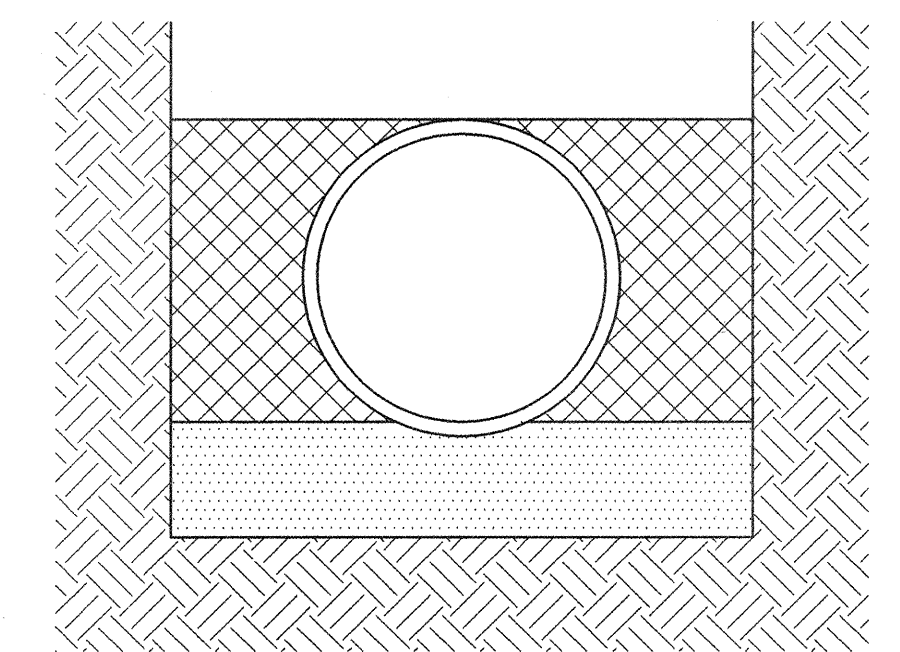
STANDARD PIPE LAYING CONDITIONS PER AWWA C150, FIG. 50.1 AND TABLE 50.2

TYPE 3 - PIPE BEDDED IN 4-IN. MINIMUM NATIVE SOIL EXCAVATED FROM THE TRENCH, FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE.



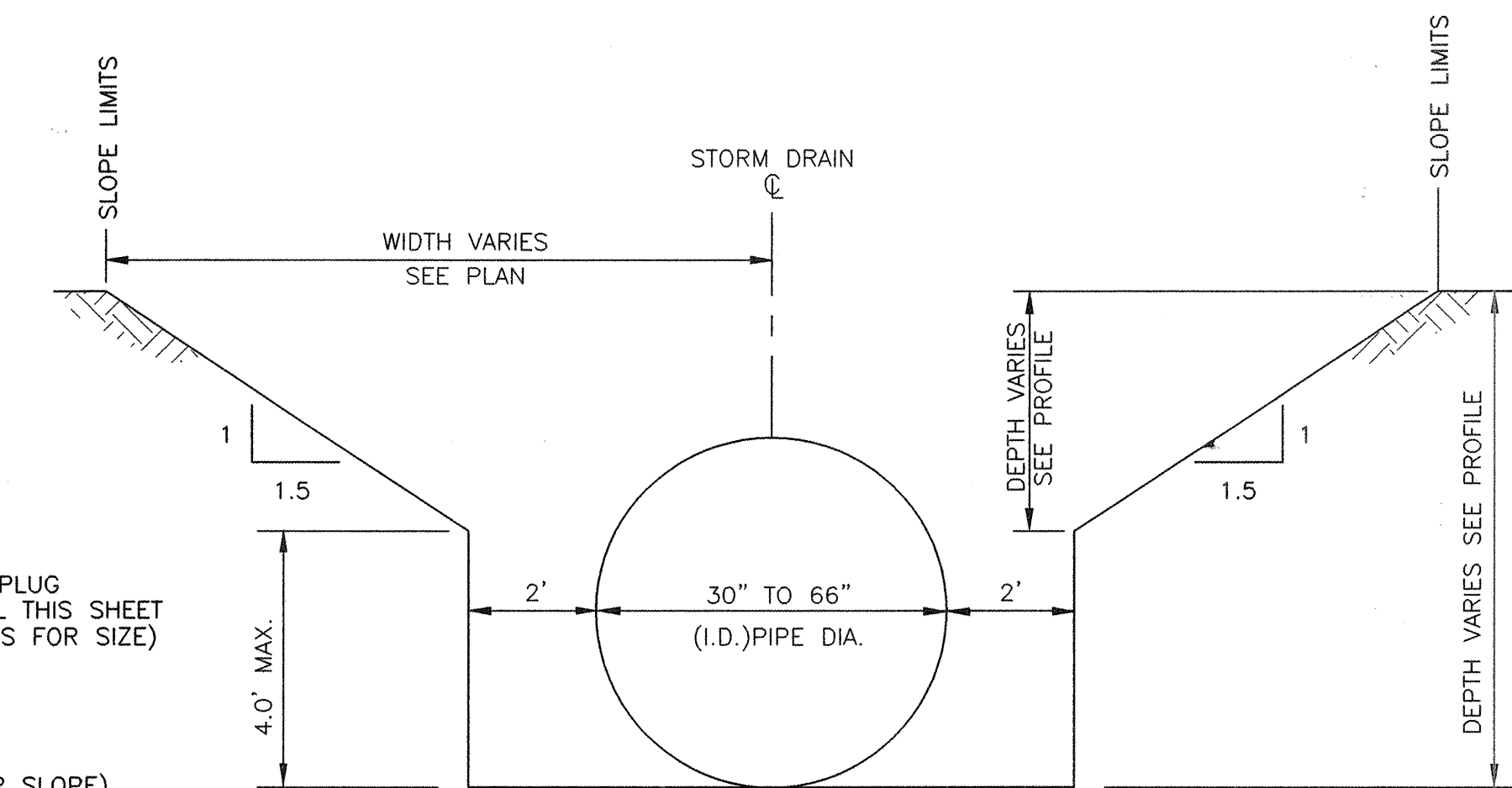
AWWA TYPE 3 TRENCH
N.T.S.

TYPE 4 - PIPE BEDDED IN SAND, GRAVEL, OR CRUSHED STONE TO DEPTH OF 1/8 PIPE DIAMETER, 4-IN. MINIMUM. BACKFILL COMPACTED TO TOP OF PIPE. (APPROXIMATELY 80 PERCENT STANDARD PROCTOR, AASHTO T-99)

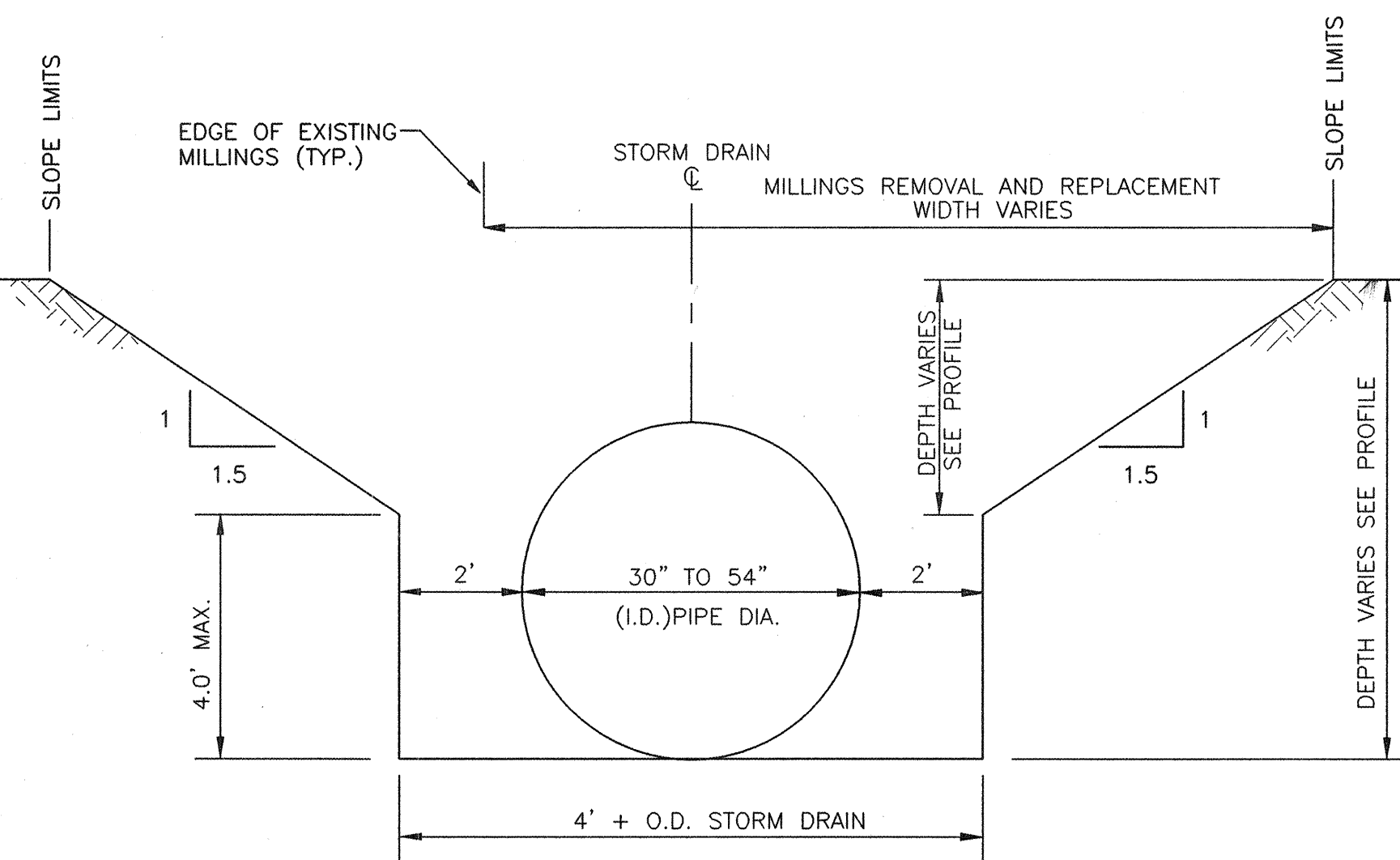


AWWA TYPE 4 TRENCH
N.T.S.

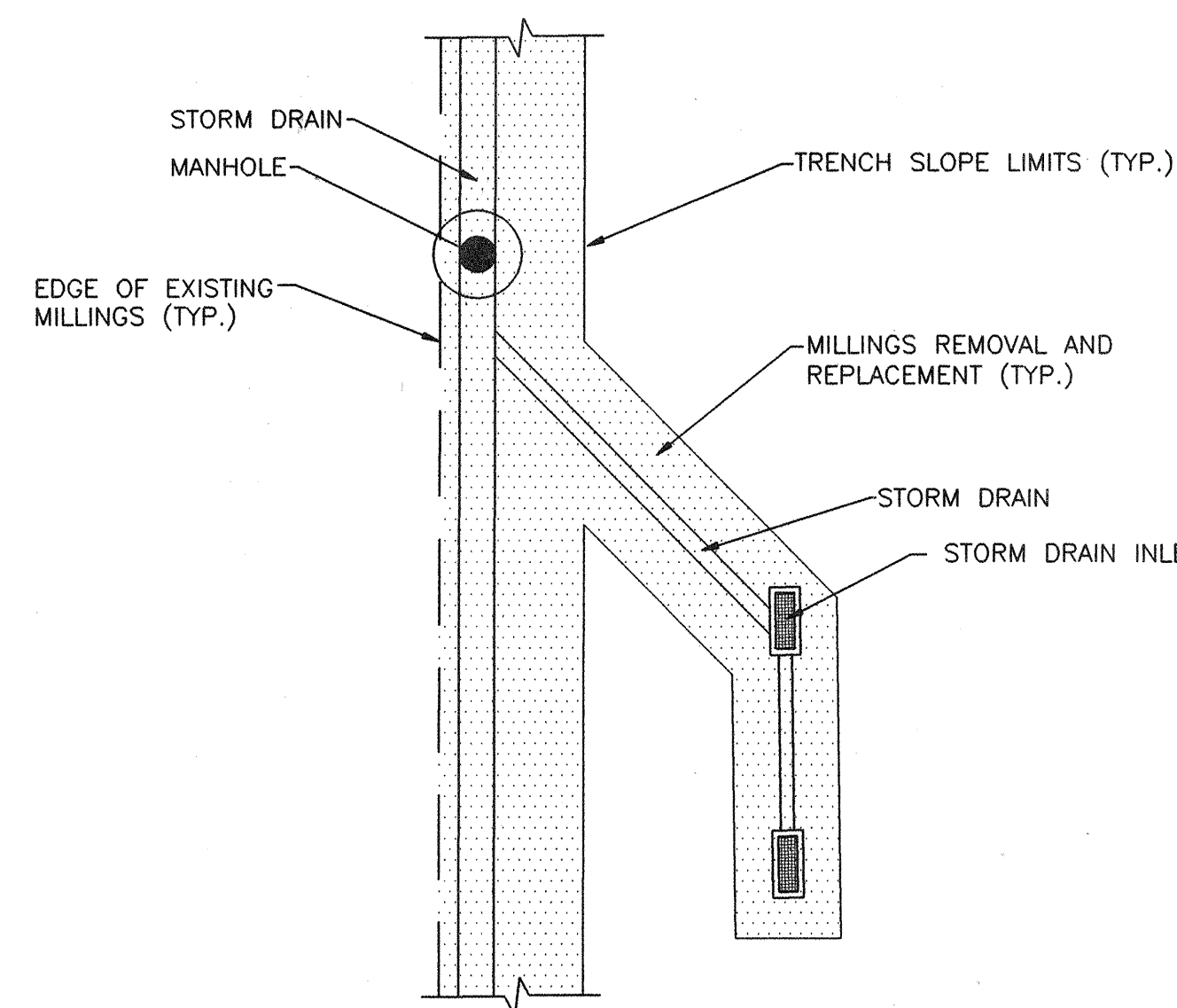
PIPE INSTALLATION SHALL MEET THE REQUIREMENTS OF SECTIONS 129, 701 AND 801 OF THE SPECIFICATIONS.



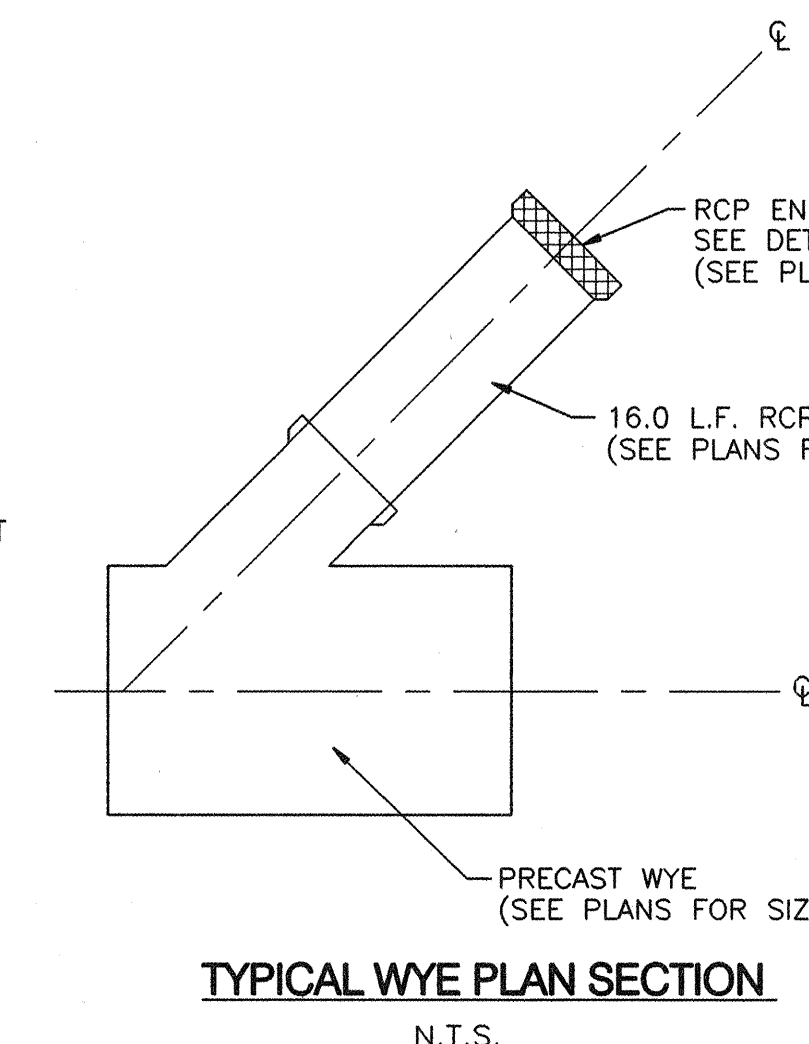
TYPICAL CROSS-SECTION
N.T.S.



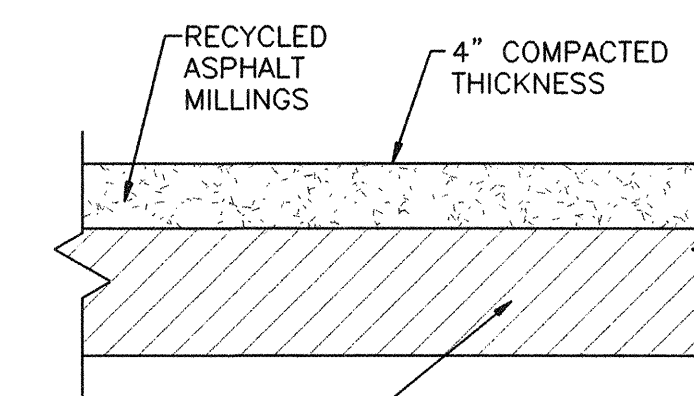
TYPICAL MILLINGS REMOVAL AND REPLACEMENT CROSS-SECTION SECTION B-B
N.T.S.



MILLINGS REMOVAL AND REPLACEMENT LIMITS (TYP.)
N.T.S.



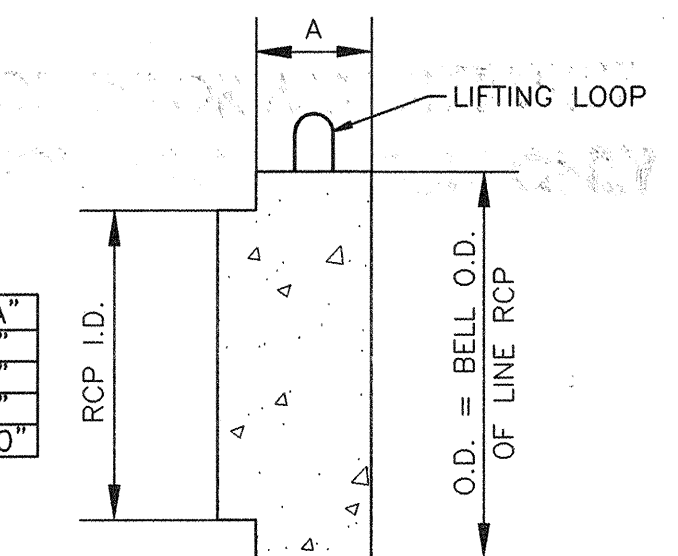
TYPICAL WYE PLAN SECTION
N.T.S.



TYPICAL RECYCLED ASPHALT
MILLINGS PAVEMENT SECTION
N.T.S.

RCP I.D.	"A"
24" & SMALLER	3"
30"-42"	6"
48"-72"	8"
78"-96"	10"

RCP END PLUG
N.T.S.



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BALLOON FIESTA PARK
PHASE 3 - LAUNCH FIELD INFRASTRUCTURE
MISCELLANEOUS DETAILS

City Project No.	Zone Map No.	Sheet	Of
6581.91	B-17-Z	13	14

RECORD DRAWING
DATE: MAR 1, 2002

DETAIL A
NOT TO SCALE

NEW TO EXISTING CONSTRUCTION JOINT DETAILS
SCALE: 1" = 1'-0"