

DIANJOU PLACE

BEING ALL OF DRAINAGE RIGHT-OF-WAY NEXT TO LOT 1, BLOCK 11,
 MESA DEL CASTILLO UNIT 3,
 A PORTION OF TRACT 14Z1, A.F. MILLER SURVEY NO. 210;
 AND A PORTION OF TRACT 3B3A, JOHN WHITTAKER SURVEY NO. 134,
 CITY OF EL PASO, EL PASO COUNTY, TEXAS
 CONTAINING: 2.717 ACRES

FINAL DEDICATION

Mario Ornelas, the owner of this land does hereby present this plot and dedicates to the use of the public, the streets, drives and utility easements as hereon laid down and designated, including easements for overhead of service wires for pole type utilities, and buried service wires, conduits and pipes for underground utilities, and the right to ingress and egress for service and construction, and the right to trim interfering trees and shrubs.

Witness our signature this _____ day of _____, 2010.

Mario Ornelas, Owner

ATTEST: NOT REQUIRED

ACKNOWLEDGEMENT

COUNTY OF EL PASO
 STATE OF TEXAS

Before me, the undersigned authority, on this day personally appeared Mario Ornelas, Owner, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same as the act and deed for the purpose and considerations herein expressed.

Given under my hand and seal of office this _____ day of _____, 2010.

Notary Public in and for El Paso County My Commission Expires _____

DEDICATION

The City of El Paso, owner of this land does hereby present this plot and dedicates, if not previously dedicated, its respective portion of said property to the use of the public, the streets, drives and utility easement, as herein laid down and designated, including easements for overhead of service wires, conduits and pipes for underground utilities, and the right to ingress and egress for service and construction, and the right to trim interfering trees and shrubs.

Witness our signature this _____ day of _____, 2010.

City Manager

ACKNOWLEDGEMENT

COUNTY OF EL PASO
 STATE OF TEXAS

Before me, the undersigned authority, on this day personally appeared Joyce Wilson, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that they executed the same as the act and deed for the purpose and considerations herein expressed.

Given under my hand and seal of office this _____ day of _____, 2010.

Notary Public in and for El Paso County My Commission Expires _____

CITY PLANNING COMMISSION

This subdivision is hereby approved as to the platting and as to the condition of the dedication in accordance with Chapter 212 of the Local Government Code of Texas this _____ day of _____, 2010.

Chairman Secretary

Development Services Director

Approved for filing this _____ day of _____, 2010.

FILING

Filed and recorded in the office of the County Clerk of El Paso County, Texas, this _____ day of _____, 2010, A.D. in Volume _____ of the Plat Record, Page _____ File No. _____

County Clerk By Deputy

Prepared by and under the supervision of:

ENRIQUE A. REY, P.E.
 Registered Professional Engineer, State of Texas
 Texas License No. 35606

This plat represents a survey made on the ground by me or under my supervision and complies with the current Texas Board of Professional Land Survey Professional and Technical Standards.

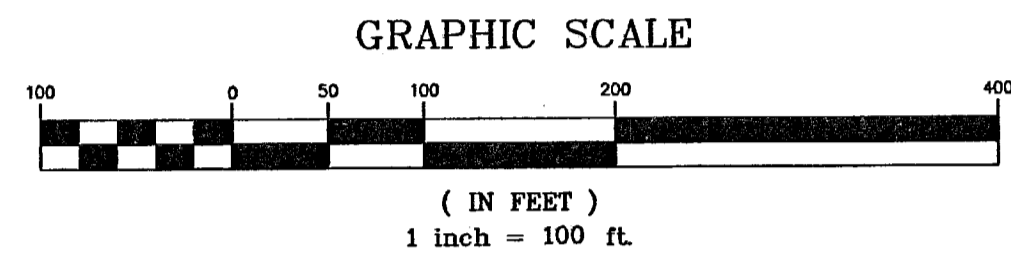
ENRIQUE A. REY, P.E.
 35606

Enrique A. Rey R.L.S. Texas, No. 3505

DATE OF PREPARATION:
 04-07-2010/REV 05-25-2010

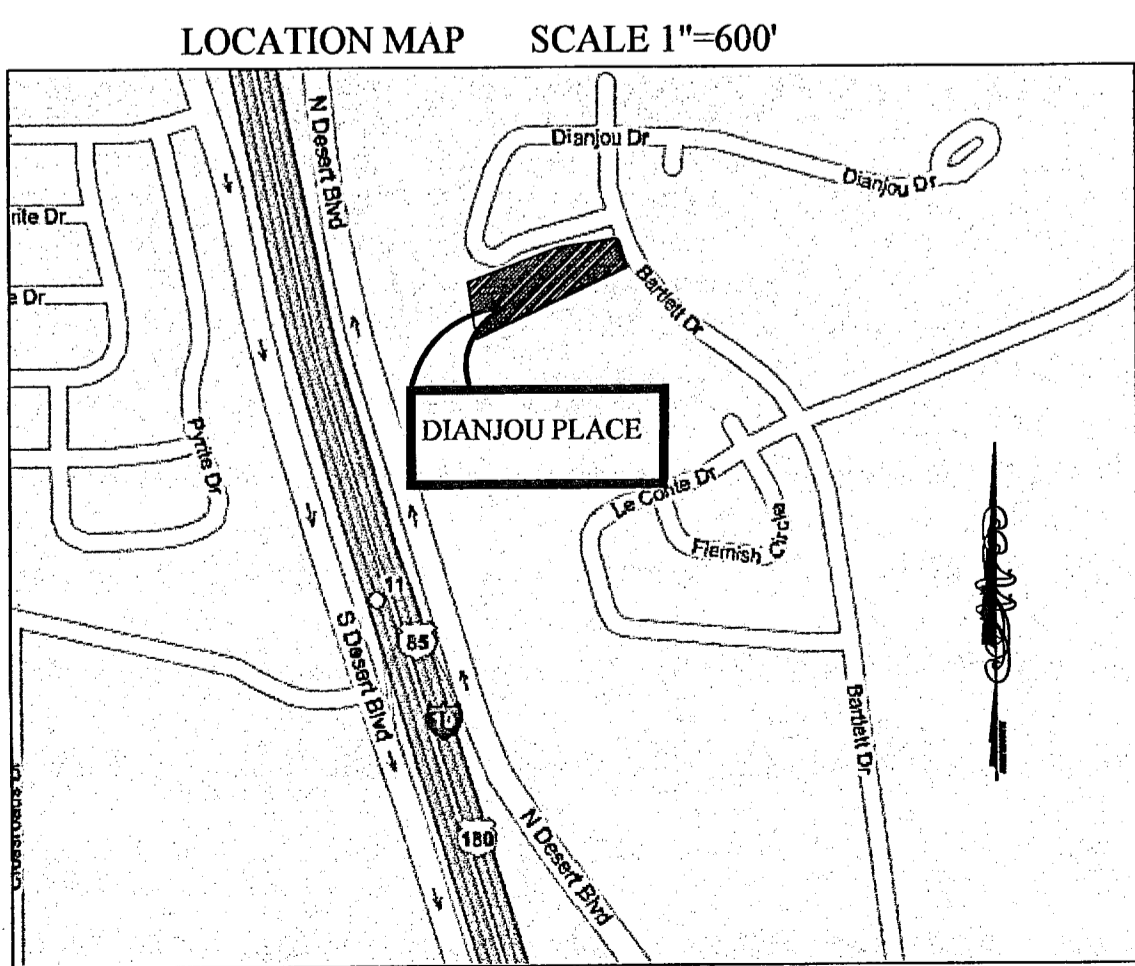
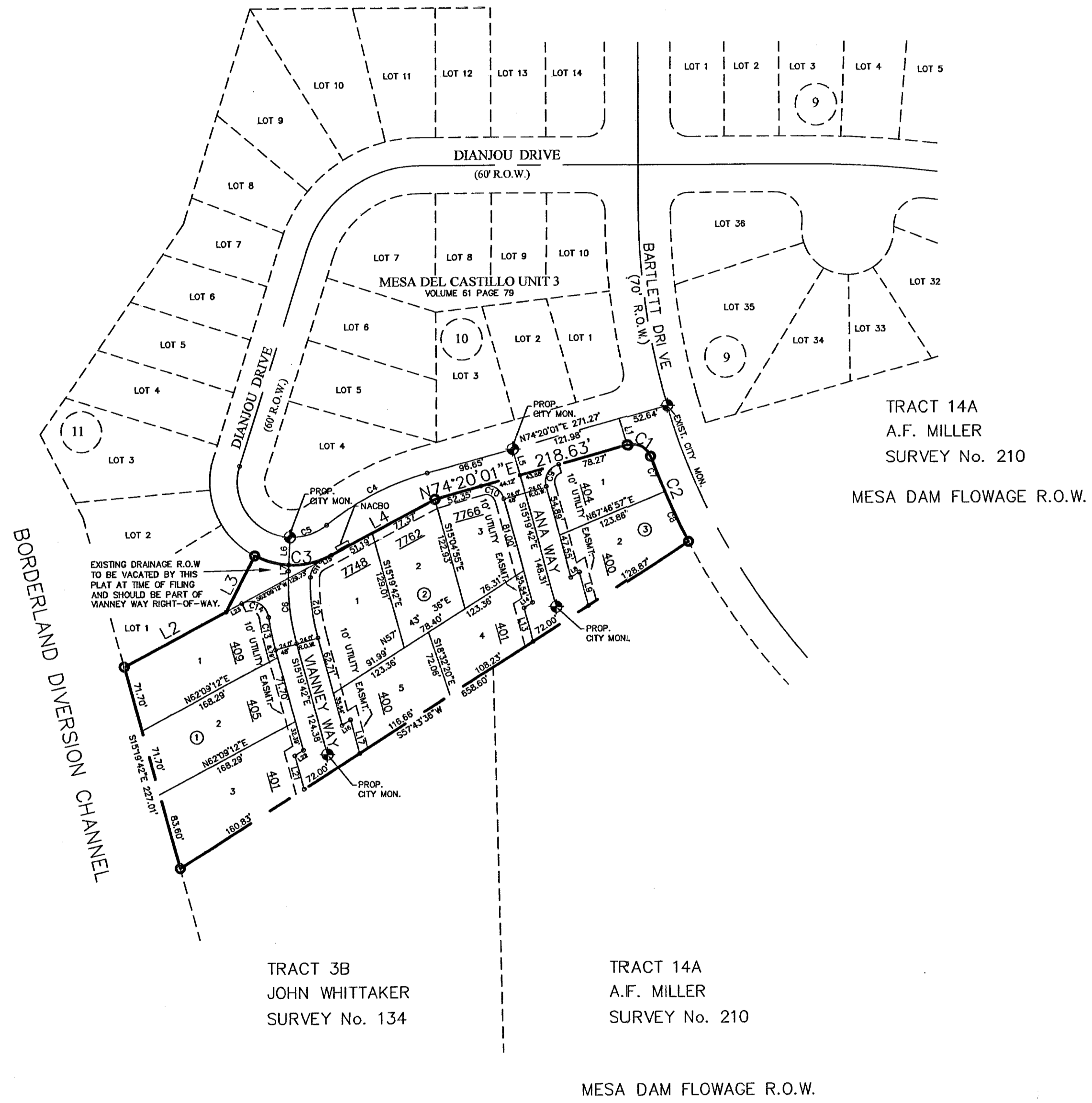
REY ENGINEERING
 Consulting Engineering & Surveying
 11348 808 MITCHELL DRIVE, EL PASO, TX 79936
 TEL. (915) 591-0097 MOBILE (915) 309-1889

SHEET 01 OF 14



NOTES:

- SET 5/8" REBAR AT ALL EXTERIOR BOUNDARY CORNERS.
- TAX CERTIFICATE FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION. INSTRUMENT No. _____ BOOK _____ PAGE _____ DATE _____
- LOT CORNERS WILL BE SET UPON COMPLETION OF CONSTRUCTION OF ROADWAYS AND UTILITIES.
- TIES SHOWN TO EXISTING CITY MONUMENTS ARE BASED ON RECORD INFORMATION ONLY. BEARINGS BY PLAT OF MESA DEL CASTILLO UNIT 3 RECORDED IN VOLUME 61, PAGE 79, PLAT RECORDS OF EL PASO COUNTY, TEXAS.
- EXISTING ZONING DESIGNATION IS R-4
- VEHICULAR ACCESS TO THOSE TO THOSE RESIDENTIAL LOTS ABUTTING BARTLETT SHALL BE FROM OTHER DEDICATED STREETS ONLY. THE INSTRUMENT ASSURING RELEASE OF ACCESS IS FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORDED SECTION. INSTRUMENT No. _____
- U.S. POSTAL SERVICE DELIVERY WILL BE PROVIDED THROUGH NEIGHBORHOOD DELIVERY COLLECTION BOX UNITS.
- SET 1" REBAR AT ALL EXTERIOR BOUNDARY CORNERS UNLESS OTHERWISE NOTED
- PROPOSED CITY MONUMENT



TOTAL RESIDENTIAL LOTS
 10

LOT	BLOCK	AREA
1	1	11,737 SQ.FT.
2	1	11,780 SQ.FT.
3	1	12,237 SQ.FT.
1	2	11,335 SQ.FT.
2	2	9,476 SQ.FT.
3	2	8,058 SQ.FT.
4	2	8,094 SQ.FT.
5	2	8,300 SQ.FT.
1	3	7,659 SQ.FT.
2	3	9,004 SQ.FT.

LINE	LENGTH	BEARING
L1	30.00	N15°30'59"W
L2	126.68	N62°09'12"E
L3	65.11	N22°12'04"E
L4	128.56	N62°09'12"E
L5	30.00	S15°14'42"E
L6	30.00	S02°54'44"W
L7	6.54	S02°54'44"W
L8	10.91	N57°43'38"E
L9	37.63	S15°14'42"E
L10	10.91	N57°43'38"E
L11	13.92	N62°09'12"E
L12	10.91	N57°43'38"E
L13	37.63	S15°14'42"E
L14	10.91	N57°43'38"E
L15	13.92	N62°09'12"E
L16	10.91	N57°43'38"E
L17	37.63	S15°14'42"E
L18	10.91	N57°43'38"E
L19	13.92	N62°09'12"E

CURVE	LENGTH	RADIUS	CHORD	TANGENT	CHORD BEARING	DELTA
C1	29.83	20.00	27.14	18.46	N62°30'54"W	65.2810°
C2	102.75	769.89	102.67	51.45	S24°01'13"E	7.29647°
C3	86.87	90.00	83.54	47.16	N69°48'18"E	50.1821°
C4	124.41	312.85	123.59	63.04	S67°36'26"W	22.4705°
C5	43.32	60.00	42.38	22.65	N72°13'50"E	41.2146°
C6	79.59	250.00	78.25	40.13	S08°12'28"E	181.426°
C7	42.47	769.89	42.46	21.24	S21°46'38"E	3.0637°
C8	60.28	769.89	60.26	30.16	S25°38'01"E	4.2510°
C9	31.30	20.00	28.20	16.88	S29°30'10"W	69.9843°
C10	31.53	20.00	28.37	20.17	N69°29'50"W	90.2017°
C11	21.19	20.00	20.21	11.71	S31°48'13"W	60.4159°
C12	66.20	276.00	65.96	33.34	S08°36'14"E	16.4635°
C13	36.04	274.00	36.01	18.04	S11°33'38"E	7.2309°
C14	38.42	20.00	32.78	28.59	N62°49'11"W	110.0314°

PROPOSED LAND USE
 RESIDENTIAL

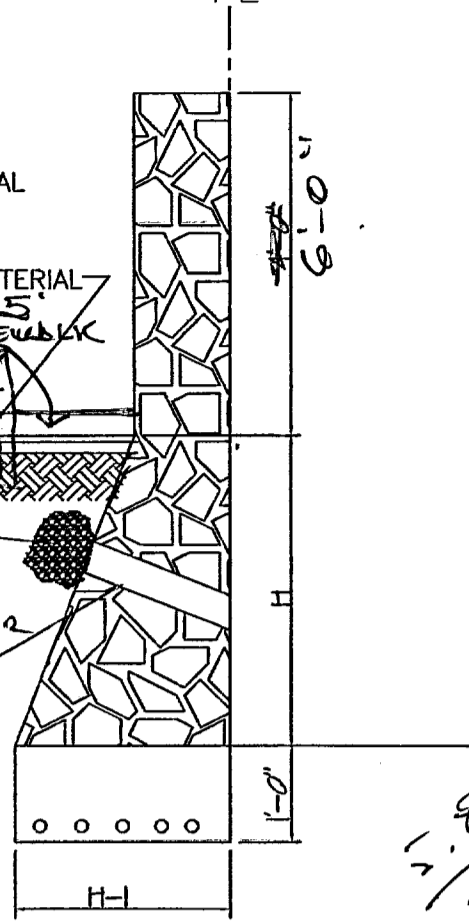
SCHOOL DISTRICT
 EL PASO INDEPENDENT SCHOOL DISTRICT

PROPERTY OWNERS
 MARIO ORNELAS IMPERIAL
 RIDGE EL PASO, TEXAS
 79912 MOBILE (915) 727-3267
 CITY OF EL PASO, TEXAS

DESCRIPTION	EXISTING	PROPOSED
EXISTING GROUND	---	---
PROPERTY LINE	---	---
CONTOUR LINE	---	---
ROCKWALL	---	---
SPOT ELEVATION	#47.50 OR	#49.73 W
TOP OF SIDEWALK ELEVATION	#47.50 SW	#49.73 SW
TOP OF CURB ELEVATION	#36.01 TC	#49.73 TC
TOP OF PAVEMENT ELEVATION	#36.51 P	#49.73 P
DRAINAGE FLOW	---	---
HIGH POINT	---	---
LOW POINT	---	---
POWER POLE	---	---
FIRE HYD	---	---
ELECTRIC BOX	---	---
WSA= WATER SHED AREAS	---	---

- NOTES:
- 1.- CONCRETE TO BE 3000 PSI COMPRESSION STRENGTH.
 - 2.- REINFORCING STEEL TO BE A36 STEEL
 - 3.- MORTAR TO MEET ASTM STANDARDS FOR CMU AND/OR ROCK
 - 4.- ROCK TO BE FRANKLIN MOUNTAIN ROCK OR APPROVED EQUAL.

SELECTED GRANULAR MATERIAL BACK FILL TO BE COMPACTED TO 95% DENSITY AS PER ASTM D2922 NUCLEAR METHOD OR APPROVED EQUAL. BACKFILLING TO BE DONE IN LAYERS NOT TO EXCEED 6" IN THICKNESS. LOOSE MATERIAL TO BE REMOVED FROM NEW PAVEMENT. NEW PAVEMENT TO BE 4" THICK. 4" PVC SCH. 40 @ 4'-0" O.C.



"H"	"H 1"	MAIN REINF.	TEMP REINF.
22'-0"	11'-0"	9-#5 CONT.	#3 @ 36" O.C.
21'-0"	10'-6"	9-#5 CONT.	#3 @ 36" O.C.
20'-0"	10'-0"	9-#5 CONT.	#3 @ 36" O.C.
19'-0"	9'-6"	8-#5 CONT.	#3 @ 36" O.C.
18'-0"	9'-0"	8-#5 CONT.	#3 @ 36" O.C.
17'-0"	8'-6"	8-#5 CONT.	#3 @ 36" O.C.
16'-0"	8'-0"	7-#5 CONT.	#3 @ 36" O.C.
15'-0"	7'-6"	7-#5 CONT.	#3 @ 36" O.C.
14'-0"	7'-0"	7-#5 CONT.	#3 @ 36" O.C.
13'-0"	6'-6"	6-#5 CONT.	#3 @ 36" O.C.
12'-0"	6'-0"	6-#5 CONT.	#3 @ 36" O.C.
11'-0"	5'-6"	6-#5 CONT.	#3 @ 36" O.C.
10'-0"	5'-0"	6-#5 CONT.	#3 @ 36" O.C.
9'-0"	4'-6"	5-#5 CONT.	#3 @ 36" O.C.
8'-0"	4'-0"	5-#5 CONT.	#3 @ 36" O.C.
7'-0"	3'-6"	4-#5 CONT.	#3 @ 36" O.C.
6'-0"	3'-0"	4-#5 CONT.	#3 @ 36" O.C.
5'-0"	2'-6"	3-#5 CONT.	#3 @ 36" O.C.
4'-0"	2'-0"	3-#5 CONT.	#3 @ 36" O.C.
3'-0"	1'-6"	2-#5 CONT.	#3 @ 36" O.C.

2 TYPICAL SECTION

WATERSHED AREAS 100 YEARS FREQUENCY $Q_{rate} = CIA$

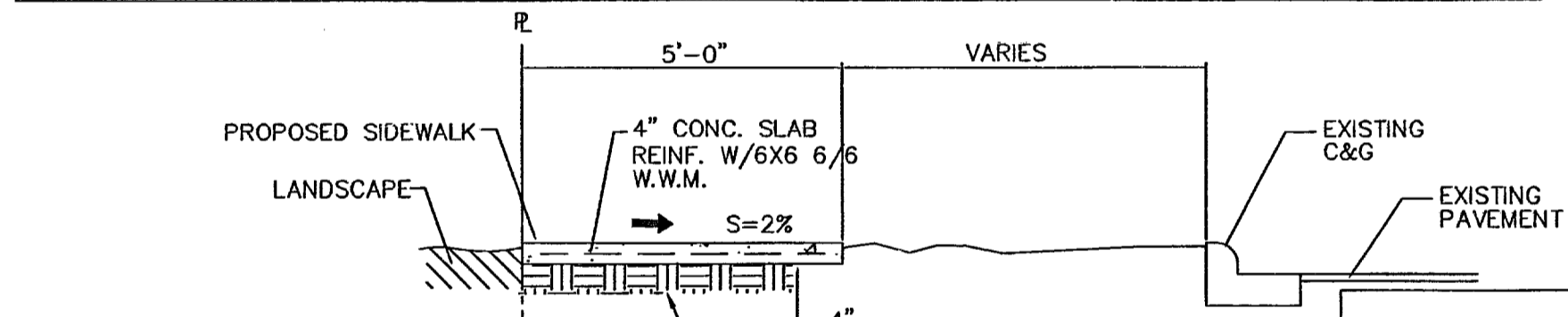
DRAINAGE AREA No.	DRAINAGE AREA (AC.)	DESIGN STORM INTENSITY	TIME OF CONCENTRATION	RUNOFF COEFF. (C)	Q (CFS)
WS-1	0.778	3.7 in/hr	21 MIN.	0.95	2.73
WS-2	0.6736	3.7 in/hr	21 MIN.	0.95	2.73
WS-3	1.87	3.3 in/hr	23 MIN.	0.95	5.86
SUB-TOTAL	11.32				
SUB-TOTAL	9.49				
SUB-TOTAL	18.08				

(DIANJOU PLACE)
(MESA DEL CASTILLO UNIT 3)
TOTAL FOR VIANEY WAY

STORM SEWER CALCULATIONS USING MANNING FORMULA
 $Q_{cap} = a \times 1.486 \times R^{2/3} \times S^{1/2}$

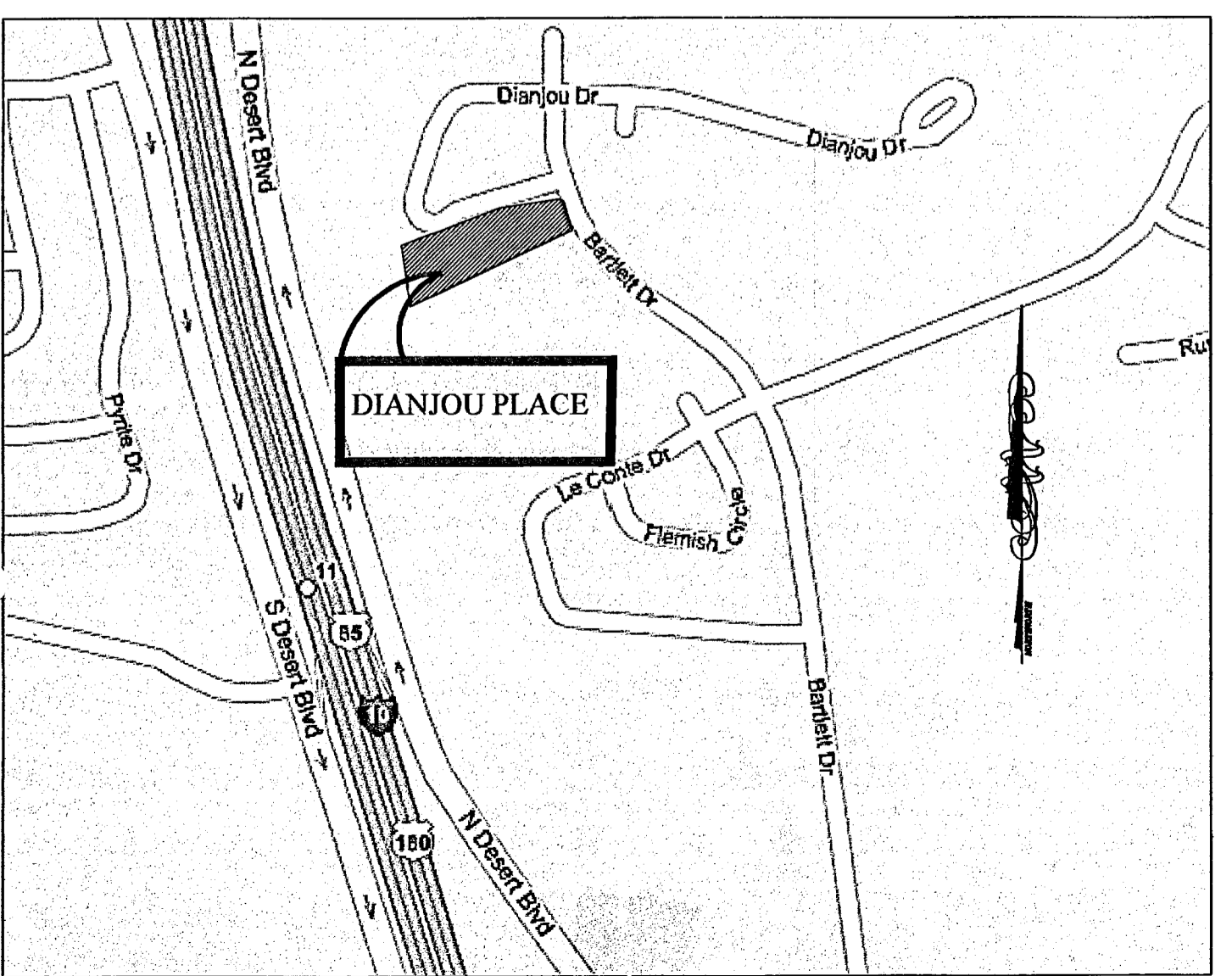
a (area-SF)	n coeff	R = a/p hydraulic radius p = wetted perimeter	R 2/3	S 1/2 Slope	Q_{rate} (req'd) cfs	Q_{rate} (prov) cfs
3.1416	0.013	0.5	0.6299	0.0141	18.08	22.62

24" Ø PIPE



3 TYPICAL SIDEWALK NOT TO SCALE

LOCATION MAP SCALE 1"=600'



CURVE	LENGTH	RADIUS	CHORD	TANGENT	CHORD BEARING	DELTA
C1	29.83	20.00	27.14	18.48	N62°55'54"W	85°28'10"
C2	102.75	769.89	102.67	51.45	S24°01'13"E	7°38'47"
C3	86.87	90.00	83.54	47.16	N89°48'18"E	55°18'21"
C4	124.41	312.85	123.59	63.04	S62°56'29"W	22°47'05"
C5	43.32	60.00	42.38	22.65	N72°13'50"E	41°21'48"
C6	79.59	250.00	79.25	40.13	S06°12'29"E	18°14'26"
C7	42.47	769.89	42.46	21.24	S21°46'38"E	3°09'37"
C8	60.28	769.89	60.26	30.16	S25°36'01"E	4°29'10"
C9	31.30	20.00	28.20	19.88	S29°30'10"W	89°39'43"
C10	31.53	20.00	28.37	20.12	N60°29'50"W	90°20'17"
C11	21.19	20.00	20.21	11.71	S31°48'13"W	60°41'59"
C12	66.20	226.00	65.96	33.34	S06°56'14"E	16°46'55"
C13	36.04	274.00	36.01	18.04	S11°33'38"E	7°32'08"
C14	38.42	20.00	32.78	28.59	N62°49'11"W	110°03'14"

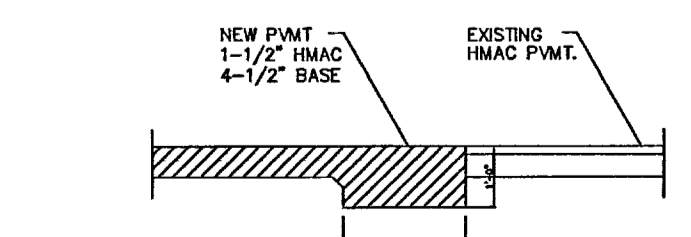
LOT AREA

LOT	BLOCK	AREA
1	1	11,737 SQ.FT.
2	1	11,780 SQ.FT.
3	1	12,227 SQ.FT.
1	2	11,335 SQ.FT.
2	2	9,476 SQ.FT.
3	2	8,058 SQ.FT.
4	2	8,094 SQ.FT.
5	2	8,390 SQ.FT.
1	3	7,959 SQ.FT.
2	3	9,004 SQ.FT.

BENCHMARK
EXIST. CITY MON. @ INTERSECTION OF BARTLETT DR. & DIANJOU DR. ELEVATION 3830.24

FLOOD ZONE DESIGNATION
THIS PROPERTY LIES IN ZONE "C", AS DESIGNATED BY THE F.I.A. FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 480214 0021 D, DATED, JANUARY 03, 1997, CITY OF EL PASO, EL PASO COUNTY.

BEFORE YOU DIG - CALL
EL PASO ELECTRIC COMPANY 1-800-344-8378
AT & T TELEPHONE 1-800-545-6005
TEXAS GAS SERVICE 1-800-344-8377
EMERGENCY HOT LINE 1-592-9411/592-2003
HORIZON MUNICIPAL UTILITY DISTRICT 1-800-545-6005
TIME WARNER COMMUNICATIONS 1-800-344-8378
TEXAS EXCAVATION SAFETY SYSTEM 1-800-344-8377



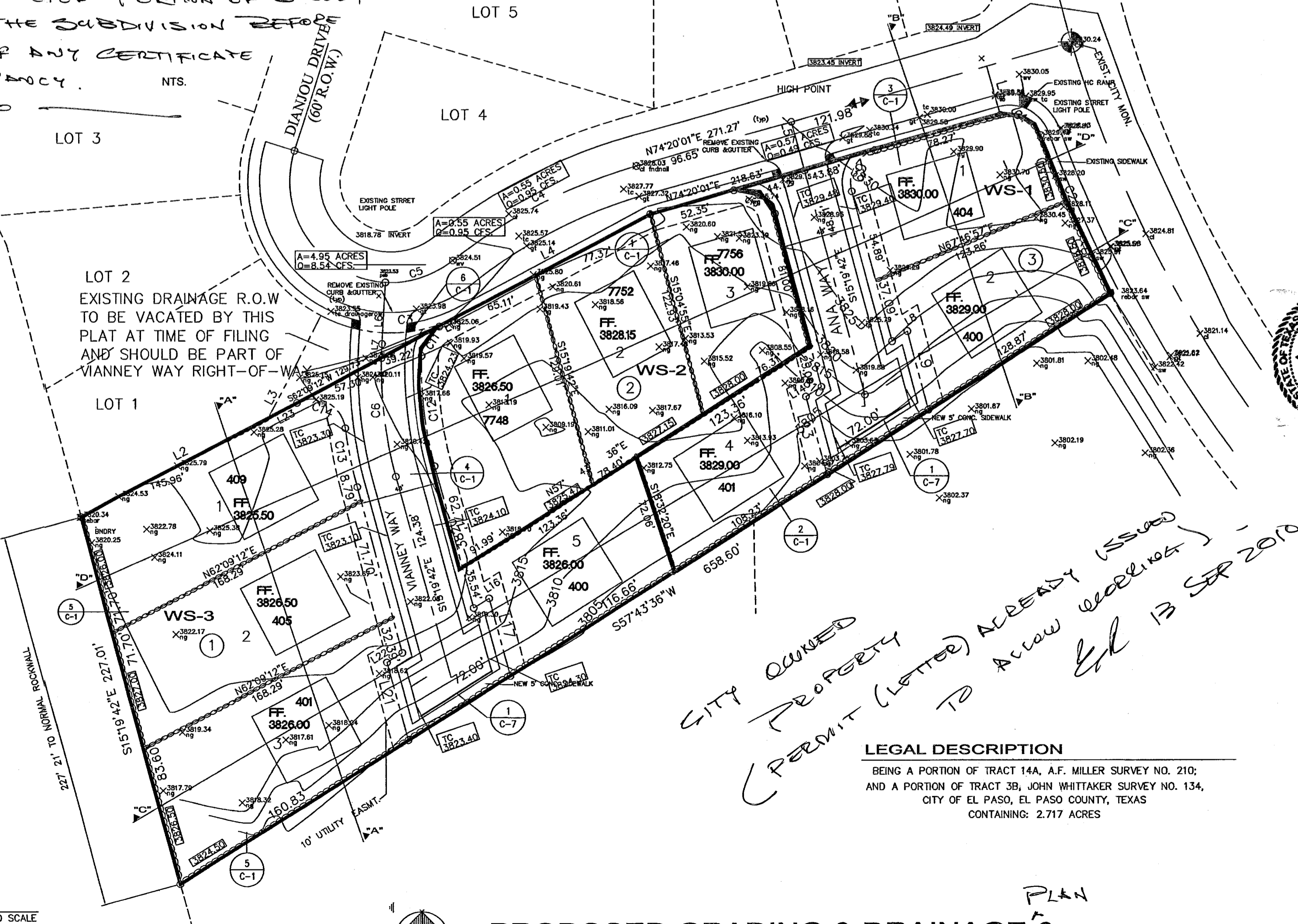
7 SECTION PVMT JOINT DETAIL NOT TO SCALE

4 CURB & GUTTER NTS.

NOTE: "EXCESSIVE PAVING CUTS" THE DEVELOPER SHALL COMPLY & REPAVE THE FULL WIDTH IMPACTED PORTION OF STREET FRONTING THE SUBDIVISION BEFORE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY.

5 H.C. RAMP DETAILS Scale: NTS

TRUNCATED DOME TILES ADA CERTIFIED "ARMOR-TILE" FACILE SYSTEMS OR APPROVED EQUAL



PROPOSED GRADING & DRAINAGE & RETAINING ROCKWALL Scale: 1"=50.0'

CITY OWNED PROPERTY (PERMIT LETTER) ALREADY ISSUED TO ALLOW REGRADING - EPL 13 SEP 2010

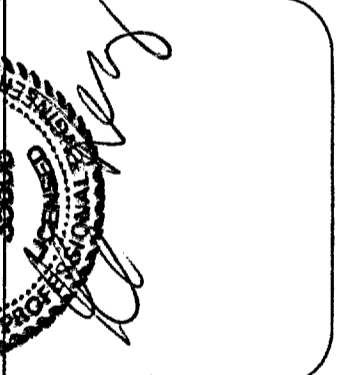
LEGAL DESCRIPTION
BEING A PORTION OF TRACT 14A, A.F. MILLER SURVEY NO. 210; AND A PORTION OF TRACT 3B, JOHN WHITTAKER SURVEY NO. 134, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING 2.717 ACRES

REVISIONS
03-29-10
05-05-10
07-21-10

PROJECT ARCHITECT: _____
PROJECT NUMBER: _____
DRAWING BY: _____
DATE: 10-17-09
FILE: _____

OWNER: _____
PROJECT NAME: _____
ADDRESS: _____
CITY: _____
STATE: _____
ZIP: _____

DIANJOU PLACE IMPROVEMENTS
DIANJOU DRIVE
EL PASO, TEXAS



REY ENGINEERING
CONSULTING ENGINEERS
1000 N. WILSON ST., SUITE 100
EL PASO, TEXAS 79906
PHONE: (915) 359-1886
FAX: (915) 359-1886
TEXAS FIRM REGISTRATION NUMBER F-3368

SHEET TITLE
PROPOSED GRADING + DRAINAGE

C-1

SHT. 02 OF 17

103169

STORM WATER POLLUTION CONTROL PLAN

SITE DESCRIPTION

PROJECT NAME & LIMITS: DIANJOU PLACE GRADING & RETAINING ROCKWALL

PROJECT DESCRIPTION: PROP. RETAINING ROCKWALL & GRADING

EXISTING CONDITIONS: EMPTY LOT

MAJOR SOIL DISTURBING ACTIVITIES: GRADING

TOTAL PROJECT AREA: 2.717 ACRES

TOTAL AREA TO BE DISTURBED: 2.717 ACRES

WEIGHTED RUNOFF COEFFICIENT (AFTER CONSTRUCTION): 0.95

EXISTING CONDITION OF SOIL + VEGETATIVE COVER: BARE SOIL

AND % OF EXISTING VEGETATIVE COVER: 3% VEGETATION

NAME OF RECEIVING WATERS: RIO GRANDE

EROSION AND SEDIMENT CONTROL

SOIL STABILIZATION PRACTICES

TEMPORARY SEEDING

PERMANENT PLANTING, SOODING OR SEEDING

MULCHING

SOIL RETENTION BLANKET

BUFFER ZONES

PRESERVATION OF NATURAL RESOURCES

OTHER: WATERING

STRUCTURAL PRACTICES

X SILT FENCES

HAY BALES

ROCK BERM

DIVERSION INTERCEPTOR, OR PERIMETER DIBER

DIVERSION INTERCEPTOR, OR PERIMETER SWALES

DIVERSION DIKE AND SWALE COMBINATIONS

PIPE SLOPE DRAINS

CONCRETE FLAMES

ROCK BEDDING AT CONSTRUCTION EXIT

TAMBER MATTING AT CONSTRUCTION EXIT

CHANNEL LINERS

SEDIMENT TRAPS

SEDIMENT BASINS

STORM INLET SEDIMENT TRAP

STONE OUTLET STRUCTURES

CURBS AND CUTTERS

STORM DRAINS

VELOCITY CONTROL DEVICES

VEGETATED SWALES + NATURAL DEPRESSIONS

OTHER:

BEST MANAGEMENT PRACTICES CONTROLS

I WASTE MATERIALS

ALL WASTE MATERIALS, INCLUDING CONSTRUCTION DEBRIS, SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. NO CONSTRUCTION WASTE MATERIAL SHALL BE BURIED ON SITE. THE TRUCK DUMPSTER SHALL COMPLY WITH ORDINANCE 8-02-09 (ENCLOSURE #) REMOVAL OF WASTE MATERIALS DURING CONSTRUCTION. THE DUMPSTER SHALL BE EMPTIED AS NECESSARY OR AS REQUIRED BY ORDINANCE 8-02-09 (WASTE MANAGEMENT) AND THE TRASH SHALL BE HAULED TO A LICENSED LANDFILL.

II HAZARDOUS WASTE

AT A MINIMUM, ANY PRODUCT IN THE FOLLOWING CATEGORIES SHALL BE CONSIDERED HAZARDOUS: PAINT, ACIDS FOR CLEANING MASONRY SURFACES, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SPILL STABILIZATION, CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL, WHICH MAY BE HAZARDOUS, THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION AND CONTACT THE FIRE DEPARTMENT AND TRICO.

III SANITARY WASTE

ALL SANITARY WASTE SHALL BE COLLECTED FROM THE CONSTRUCTION PORTABLE UNITS AS NECESSARY OR AS REQUIRED, CHAPTER 80R (BUILDING CODE), BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR. ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

IV SPILL PREVENTION

THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURES OF MATERIALS TO STORM WATER RUNOFF.

V GOOD HOUSEKEEPING

A. STORE ONLY ENOUGH PRODUCTS REQUIRED TO DO THE JOB.

B. NEATLY STORE MATERIALS ON-SITE IN AN ORDERLY MANNER.

C. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER.

D. DO NOT MIX SUBSTANCES WITH ONE ANOTHER, UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER.

E. USE ENTIRE CONTENTS OF A PRODUCT BEFORE DISPOSING OF THE CONTAINER.

F. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL.

VI HAZARDOUS PRODUCTS

PRACTICES USED TO REDUCE RISK:

A. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER, IF AT ALL POSSIBLE.

B. RETAIN ORIGINAL LABELS, PRODUCT INFORMATION ON MATERIAL SAFETY DATA SHEETS (MSDS).

C. DISPOSE SURPLUS PRODUCT IN ACCORDANCE WITH MANUFACTURER'S OR LOCAL + STATE RECOMMENDED METHODS.

VII PETROLEUM PRODUCTS

ALL ON-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS, WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON-SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

VIII SPILL CONTROL PRACTICES

A. MANUFACTURER'S RECOMMENDED METHOD FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES.

B. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE.

C. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

D. SPILL AREA SHALL BE WELL-VENTILATED AND APPROPRIATE CLOTHING WILL BE WORN.

E. ANY SPILL SHALL BE REPORTED TO THE APPROPRIATE GOVERNMENTAL AGENCY.

F. MEASURES SHALL BE TAKEN TO PREVENT A SPILL FROM REOCCURRING.

IX MAINTENANCE AND INSPECTION PROCEDURES

ALL POLLUTION PREVENTION MEASURES SHALL BE INSPECTED AT LEAST ONCE A MONTH, OR WITHIN 24 HOURS PRIOR TO ANTICIPATED STORM EVENT AND FOLLOWING A STORM EVENT OF 0.5 INCHES OR MORE. INSPECTION IN FINAL STABILIZED AREAS OR DURING AND PERIODS PROCEDURES SHALL BE DONE + RETAINED ALONG WITH THE LOGS.

X REPAIRS

DISPOSAL AREAS, STOCKPILES, AND HAUL ROADS SHALL BE CONTRACTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, WATERBODY OR STREAMBED. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RISK OF POLLUTANTS. ALL WATERWAYS SHALL BE CLEANED AS SOON AS PRACTICABLE OR TEMPORARY EMBANKMENT, TEMPORARY FENCES, MATTING, FALSE WORK, FILING DEBRIS OR OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT A PART OF THE FINISHED WORK.

XI OFF SITE VEHICLE TRACKING

IN ADDITION TO THE STABILIZED CONSTRUCTION ENTRANCES, THE FOLLOWING MEASURES SHALL BE OBSERVED DURING CONSTRUCTION:

HAIL ROADS SHALL BE DAMPENED FOR DUST CONTROL.

LOADED HAUL TRUCKS SHALL BE COVERED WITH TARP/AULIN.

EXCESS DIRT ON ROAD SHALL BE REMOVED DAILY.

STABILIZED CONSTRUCTION ENTRANCE

OTHER:

LOT AREA

LOT	BLOCK	AREA
1	1	11,737 SQ.FT.
2	1	11,780 SQ.FT.
3	1	12,227 SQ.FT.
1	2	11,335 SQ.FT.
2	2	9,476 SQ.FT.
3	2	8,058 SQ.FT.
4	2	8,094 SQ.FT.
5	2	8,390 SQ.FT.
1	3	7,959 SQ.FT.
2	3	9,004 SQ.FT.

LINE TABLE

LINE	LENGTH	BEARING
L1	30.00	N15°39'59"W
L2	126.68	N62°09'12"E
L3	68.11	N27°27'29"E
L4	128.56	N62°09'12"E
L5	30.00	S15°19'42"E
L6	30.00	S02°54'44"W
L7	6.54	S02°54'44"W
L8	10.91	N57°43'36"E
L9	37.63	S15°19'42"E
L13	37.63	S15°19'42"E
L14	10.91	N57°43'36"E
L15	13.92	N62°09'12"E
L16	10.91	N57°43'36"E
L17	37.63	S15°19'42"E
L21	37.63	S15°19'42"E
L22	10.91	N57°43'36"E
L23	19.28	N62°09'12"E

CURVE TABLE

CURVE	LENGTH	RADIUS	CHORD	TANGENT	CHORD BEARING	DELTA
C1	29.83	20.00	27.14	18.48	N62°55'54"W	85°28'10"
C2	102.75	769.89	102.67	51.45	S24°01'13"E	7°38'47"
C3	86.87	90.00	83.54	47.16	N89°48'18"E	55°18'21"
C4	124.41	312.85	123.59	63.04	S62°56'29"W	22°47'05"
C5	43.32	60.00	42.38	22.65	N72°13'50"E	41°21'48"
C6	79.59	250.00	79.25	40.13	S06°12'29"E	18°14'26"
C7	42.47	769.89	42.46	21.24	S21°46'38"E	3°09'37"
C8	60.28	769.89	60.26	30.16	S25°36'01"E	4°29'10"
C9	31.30	20.00	28.20	19.88	S29°30'10"W	89°39'43"
C10	31.53	20.00	28.37	20.12	N60°29'50"W	90°20'17"
C11	21.19	20.00	20.21	11.71	S31°48'13"W	60°41'59"
C12	66.20	226.00	65.96	33.34	S06°56'14"E	16°46'55"
C13	36.04	274.00	36.01	18.04	S11°33'38"E	7°32'08"
C14	38.42	20.00	32.78	28.59	N62°49'11"W	110°03'14"

REVISIONS

△	03-29-10
△	05-05-10
△	07-21-10
△	
△	
△	
△	

PROJECT ARCHITECT: _____

PROJECT NUMBER: _____

DRAWING BY: _____

DATE: 10-17-09

FILE: _____

OWNER: _____

PROJECT NAME: _____

EL PASO, TEXAS

DIANJOU PLACE IMPROVEMENTS

DIANJOU DRIVE

PROJECT NAME: _____

EL PASO, TEXAS

REY ENGINEERING

CONSULTING ENGINEERS, ARCHITECTS, PLANNING

1001 S. GARDNER STREET, SUITE 100, EL PASO, TEXAS 79906

TELEPHONE: (915) 389-1888

TELEFAX: (915) 389-1888

TEXAS FIRM REGISTRATION NUMBER: F-3368

SHEET TITLE: POLLUTION CONTROL

C-2

SHT. 04 OF 14

OWNER CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL, PROPERLY OBTAINED AND EVALUATED INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR OBTAINING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINES AND IMPROVEMENT FOR KNOWING VIOLATIONS.

OWNER SIGNED: _____ DATE: _____

OTHER SIGNED: _____ DATE: _____

TITLE: _____ DATE: _____

GENERAL CONTRACTOR CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT THAT AUTHORIZES STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNED: _____ COMPANY: _____

NAME: _____ ADDRESS: _____

TITLE: _____ TELEPHONE: _____

DATE: _____

SUB-CONTRACTOR CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I WILL COORDINATE, EITHER THROUGH THE GENERAL CONTRACTOR, OWNER, OR DIRECTLY WITH THE CONTRACTOR(S) AND/OR SUB-CONTRACTOR(S) IDENTIFIED IN THE POLLUTION PREVENTION PLAN, HAVING RESPONSIBILITY FOR IMPLEMENTING STORM WATER CONTROL MEASURES TO MINIMIZE ANY IMPACT MY ACTIONS MAY HAVE ON THE EFFECTIVENESS OF THESE STORM WATER CONTROL MEASURES.

SIGNED: _____ SIGNED: _____

NAME: _____ NAME: _____

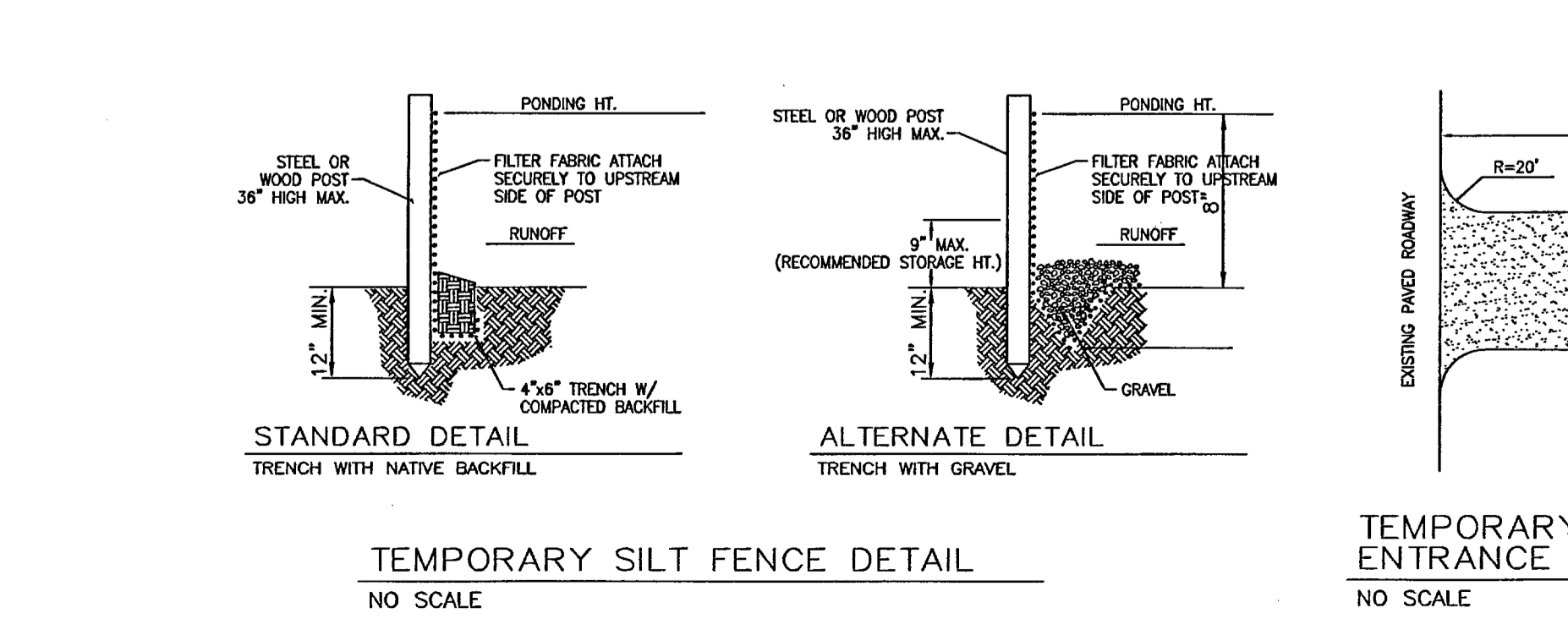
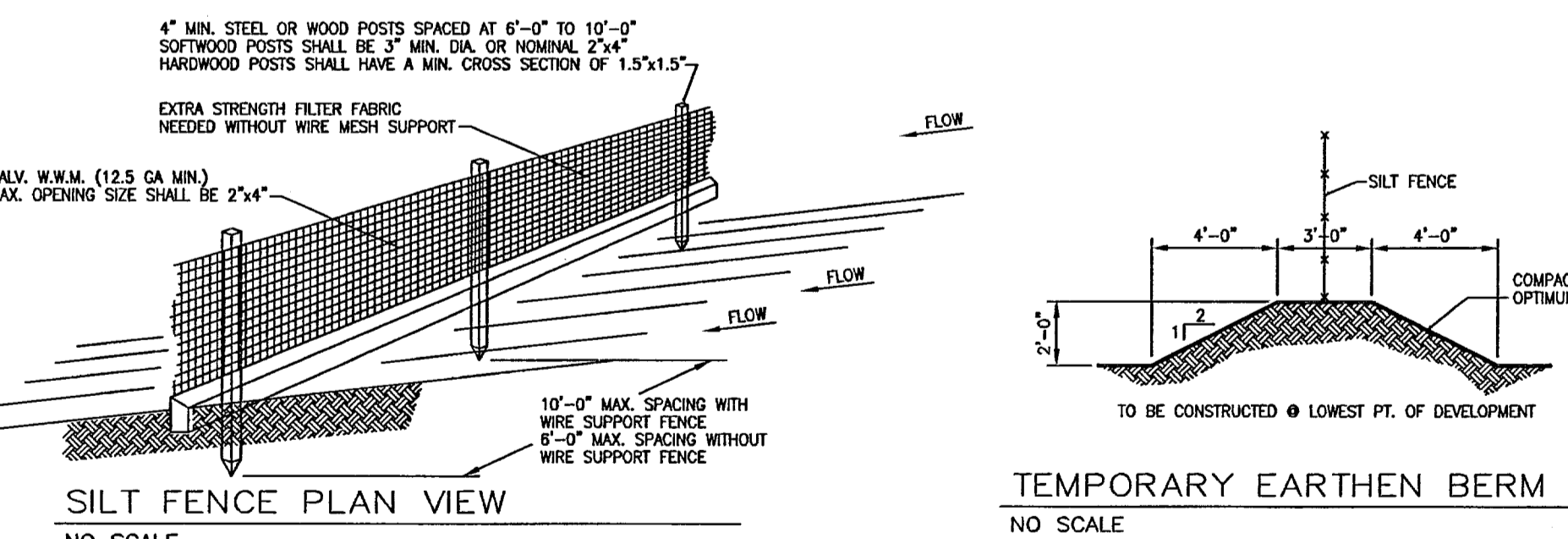
TITLE: _____ TITLE: _____

COMPANY: _____ COMPANY: _____

ADDRESS: _____ ADDRESS: _____

TELEPHONE: _____ TELEPHONE: _____

DATE: _____ DATE: _____



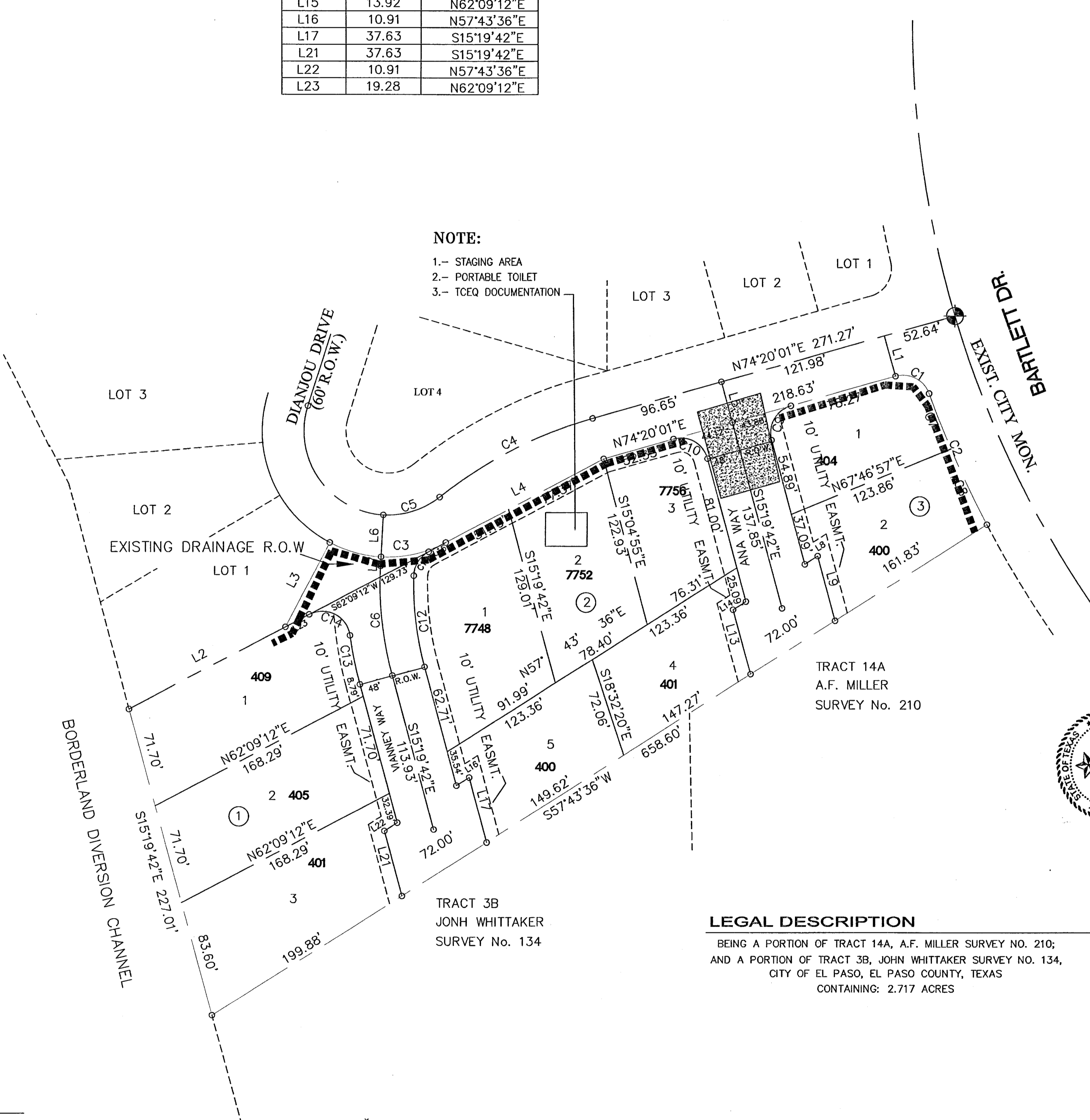
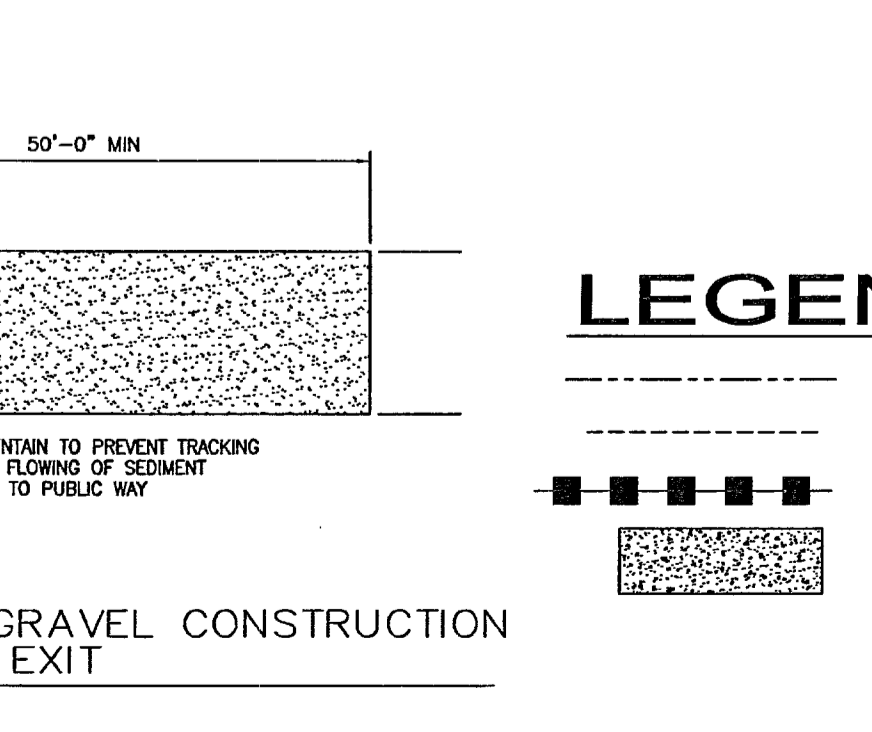
EROSION AND DUST CONTROL PLAN

EROSION AND SEDIMENT CONTROLS TEMPORARY STABILIZATION

A TEMPORARY BERM OR SILT FENCE (SEE DETAIL) WILL BE PLACED ALONG THE PERIMETER OF THE PROPERTY DURING CONSTRUCTION.

OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP DAILY TO REMOVE ANY EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE SITE.



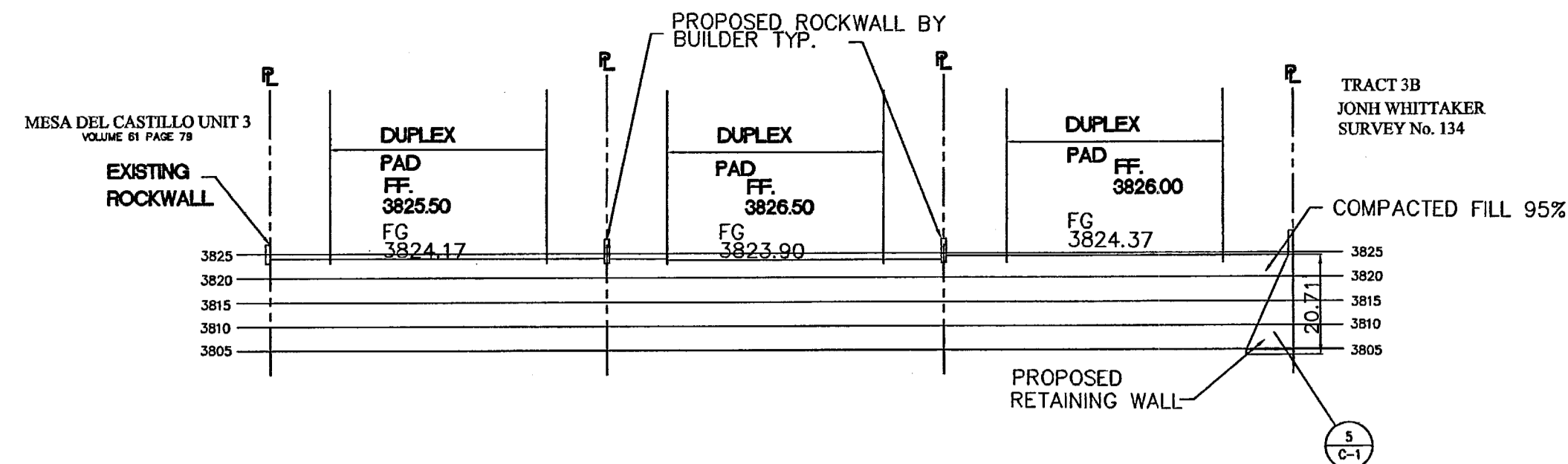
LEGAL DESCRIPTION

BEING A PORTION OF TRACT 14A, A.F. MILLER SURVEY NO. 210; AND A PORTION OF TRACT 3B, JONH WHITTAKER SURVEY NO. 134, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 2.717 ACRES

STORM WATER POLLUTION CONTROL PLAN

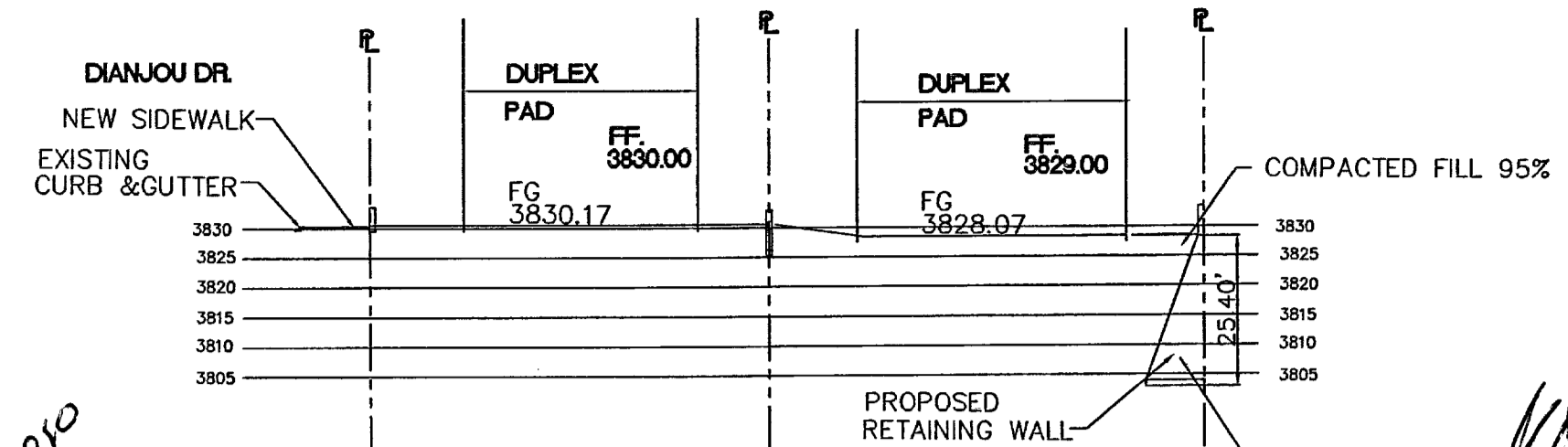
Scale: 1" = 50.0'

103169



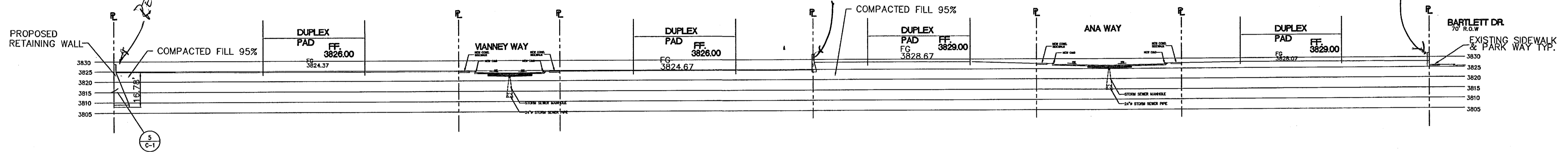
SECTION "A-A"

Horizontal Scale: 1" = 30.0'
Vertical Scale: 1" = 30.0'



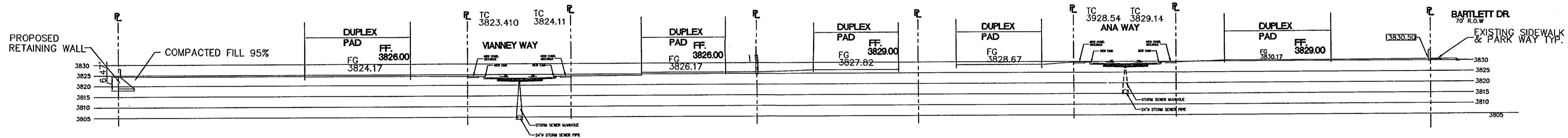
SECTION "B-B"

Horizontal Scale: 1" = 30.0'
Vertical Scale: 1" = 30.0'



SECTION "C-C"

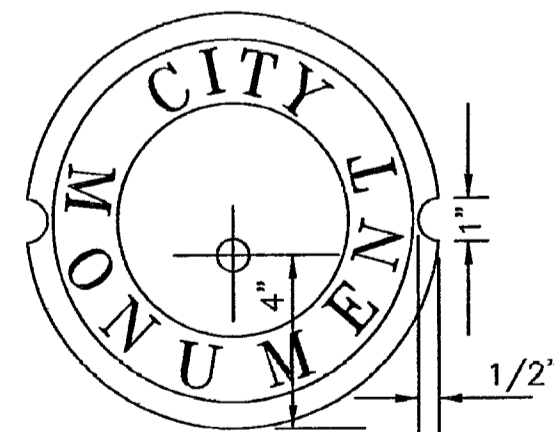
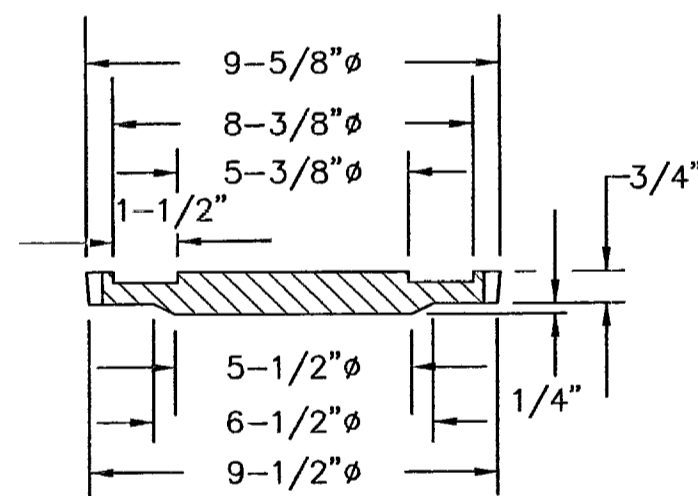
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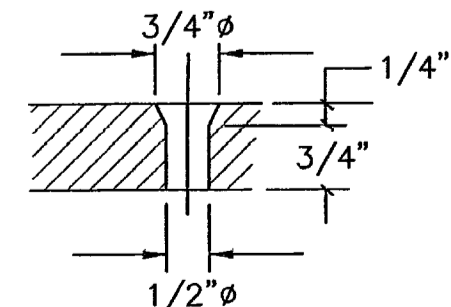
SECTION "D-D"

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Vertical Scale: 1" = 30.0'

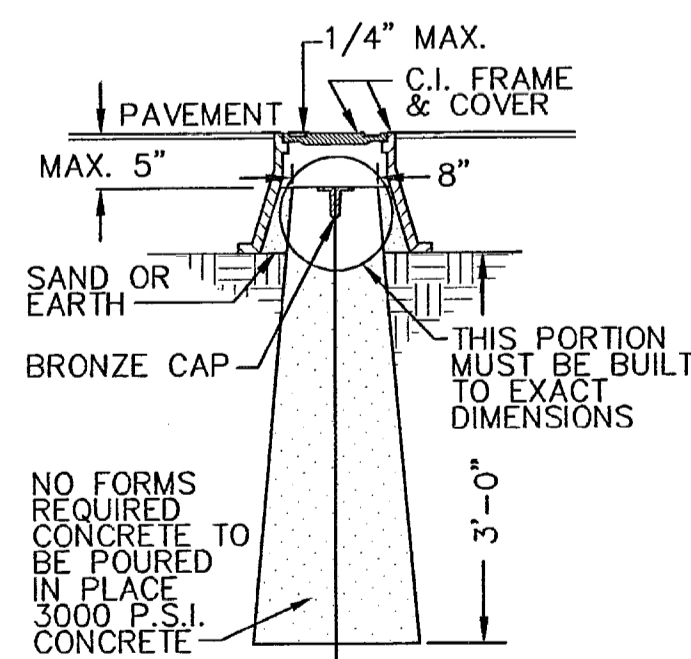
NOTES:
ROCKWALLS WITH FINISHED GRADES ELEVATIONS LARGER THAN 2' SHALL BE BUILT AS RETAINING WALLS



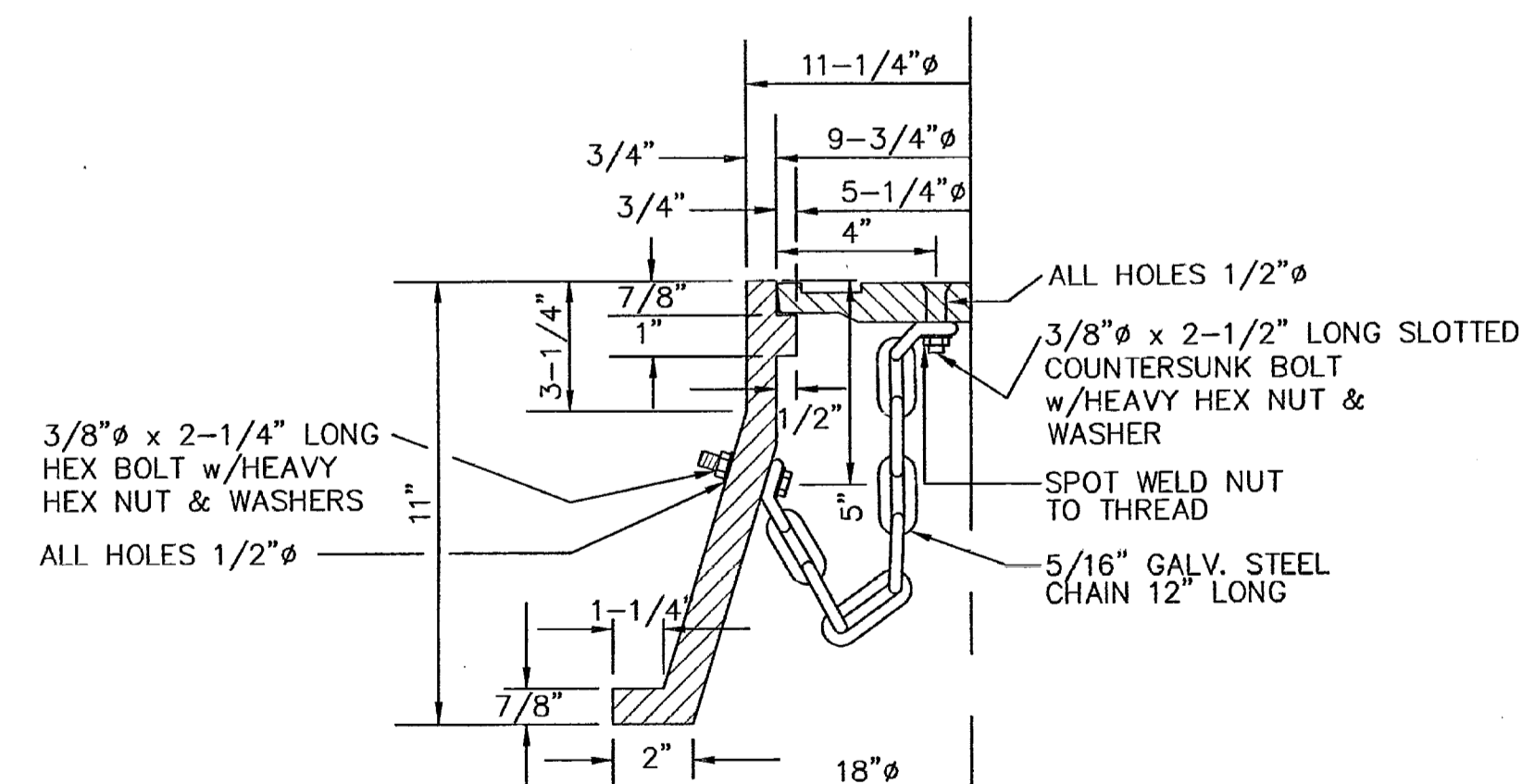
COVER
SCALE: 1" = 6"



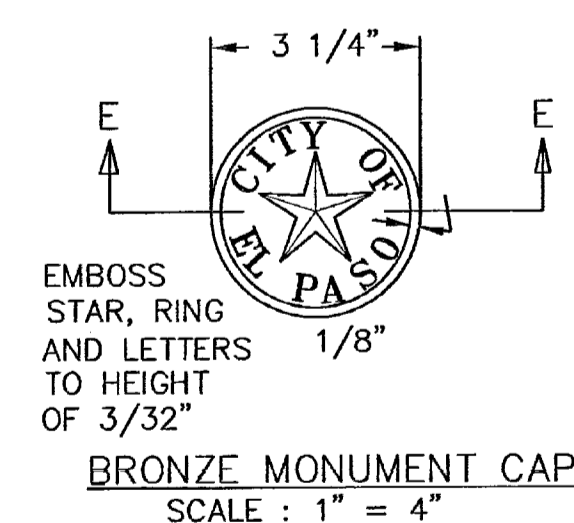
COUNTERSUNK DETAIL
SCALE: 1" = 3"



SCALE: 1" = 2"



FRAME SECTION
SCALE: 1" = 6"



SECTION E-E

OUTSIDE RADIUS OF STAR = 3/4"
INSIDE RADIUS OF STAR = 5/16"

HEIGHT OF LETTERS = 7/16"
WIDTH OF LETTER BODY = 3/16"
RADI FOR POSITION OF LETTERING = 13/16" AND 1-1/4"

SIZE AND CONSTRUCTION:

THE STANDARD CITY MONUMENT SHALL BE POURED-IN-PLACE CONCRETE CONE. EIGHT (8) INCHES MINIMUM DIAMETER AT THE TOP, EIGHTEEN (18) INCHES MINIMUM DIAMETER AT THE BOTTOM, THIRTY-SIX (36) INCHES MINIMUM IN DEPTH WITH THE MONUMENT CAP IN PLACE ON TOP. THE MONUMENT SHALL BE COVERED WITH A CAST IRON BOX AND COVER.

NUMBER AND LOCATIONS:

THE MONUMENTS SHALL BE INSTALLED WHERE SHOWN ON THE SUBDIVISION PLAT AS APPROVED BY THE CITY ENGINEER.

ANY MONUMENT MUST BE WITHIN THE LINE OF SIGHT OF ANY OTHER MONUMENT (2000 FEET MAXIMUM DISTANCE BETWEEN MONUMENTS). THE SIZE, TOPOGRAPHY AND LAYOUT OF THE SUBDIVISION SHALL GOVERN THE NUMBER OF MONUMENTS REQUIRED.

NO FEWER THAN TWO MONUMENTS SHALL BE PLACED IN A ONE STREET SUB-DIVISION.

AT LEAST ONE (1) MONUMENT SHALL BE PLACED ON EACH HORIZONTAL CURVE. TWO SHALL BE PLACED IF THE POINT OF INTERSECTION (P.I.) OF THE TANGENTS LEADING INTO THE CURVE FALLS OUTSIDE OF CITY RIGHT-OF-WAY. MONUMENTS SHALL BE INSTALLED SO THAT ALL FRONT PROPERTY CORNERS OF ALL LOTS IN THE SUBDIVISION ARE WITHIN LINE OF SIGHT OF A MONUMENT, OR WITHIN SIGHT OF LINE BETWEEN TWO ADJACENT MONUMENTS.

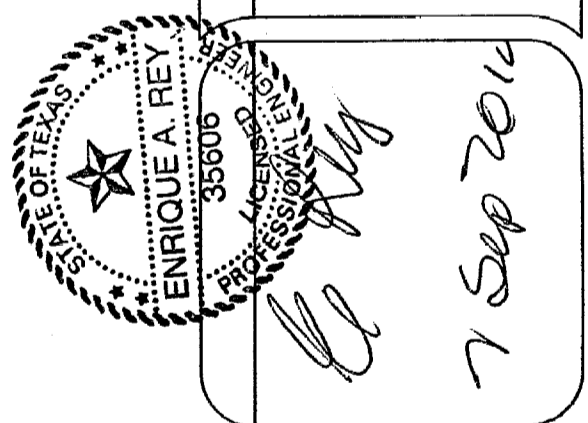
CITY MONUMENT DETAIL

REVISIONS	
△	03-29-10
△	05-05-10
△	07-21-10
△	
△	
△	
△	

PROJECT NUMBER:	10-17-09
DRAWING BY:	
DATE:	10-17-09
FILE:	

OWNER
XXXXXXXX

PROJECT NAME
DIANJOU PLACE IMPROVEMENTS
EL PASO, TEXAS
DIANJOU DRIVE



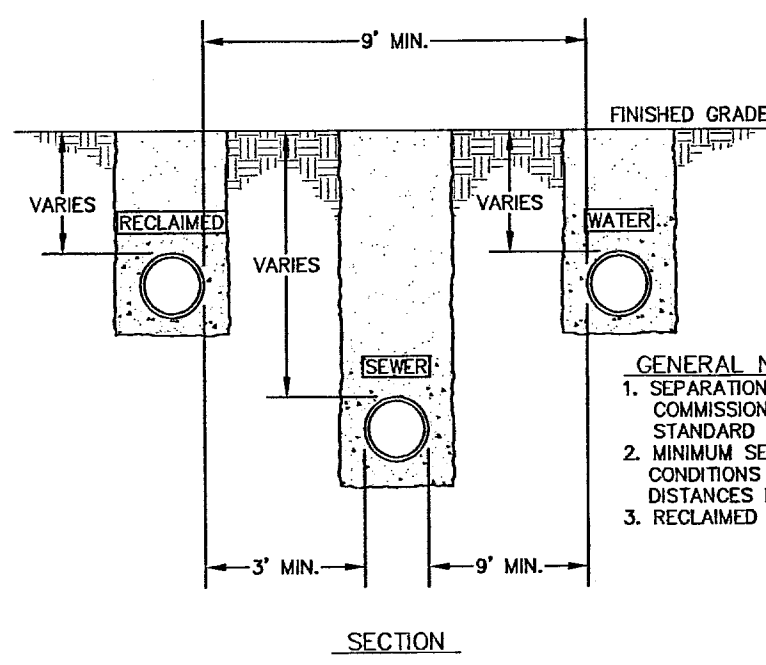
REY ENGINEERING
CONSULTING ENGINEERING-SURVEYING-LAND PLANNING
1518 B BOWEN DRIVE, EL PASO, TEXAS 79906
TEXAS FIRM REGISTRATION NUMBER
F-33668

SHEET TITLE
SECTIONS

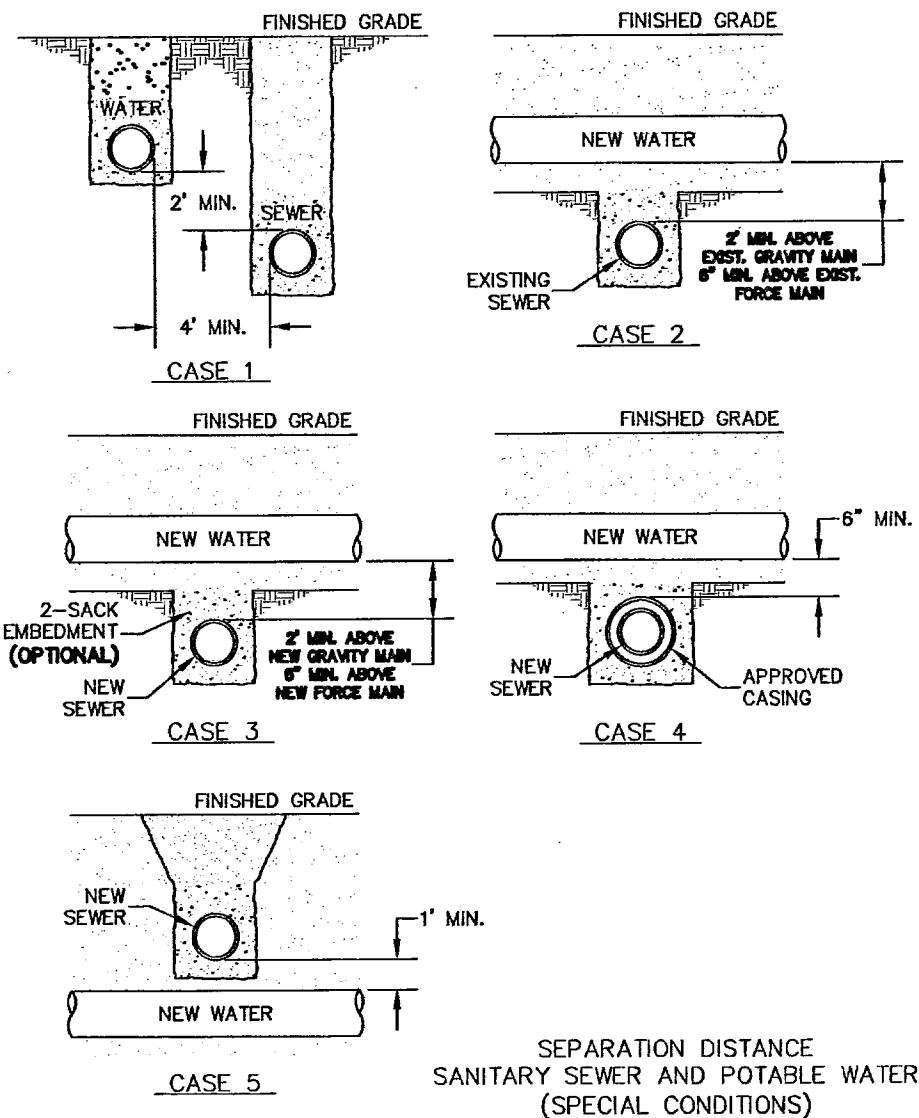
C-3

SHT. 05 OF 134

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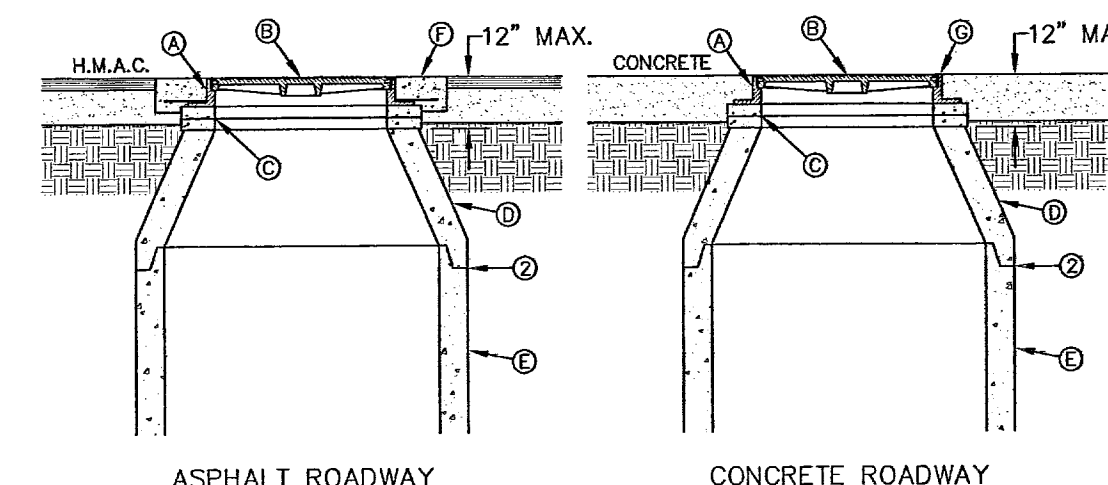


GENERAL NOTES:
 1. SEPARATION DISTANCES SHALL FOLLOW TEXAS COMMISSION ON ENVIRONMENTAL QUALITY STANDARD REQUIREMENTS.
 2. MINIMUM SEPARATION DISTANCES SHOWN, IF CONDITIONS DO NOT ALLOW FOR INDICATED DISTANCES REFER TO DETAILS 161, 162 & 163.
 3. RECLAIMED WATER LINE AT OR ABOVE SEWER LINE.



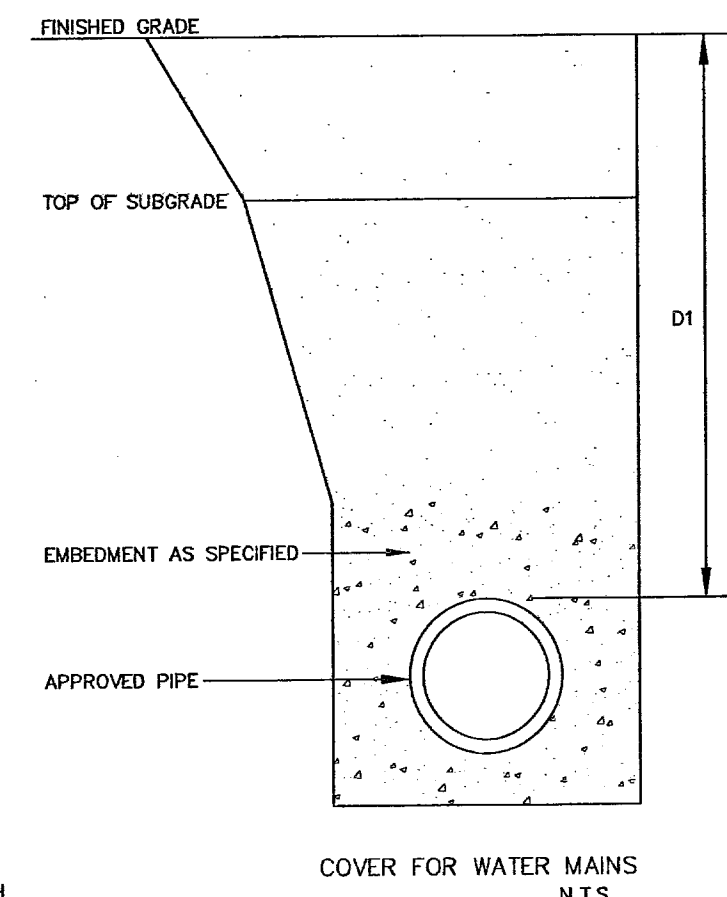
DETAIL C-7
 SCALE: N.T.S.

CONSTRUCTION KEY NOTES:
 WHEN STANDARD NINE (9) FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, SEPARATION SHALL BE DETERMINED ACCORDING TO THE FOLLOWING CONDITIONS:
 CASE 1. GRAVITY SANITARY SEWER MAIN OR FORCE MAIN PARALLEL TO POTABLE WATER MAIN (PER TCEQ §26.44(a)(3) & §26.44(a)(4)).
 • LOCATION: WATER ABOVE SEWER OR FORCE MAIN.
 • SEWER MATERIALS: EXISTING GRAVITY MAIN (PVC 60PSI OR CLAY) OR FORCE MAIN TO REMAIN IF NOT LEAKING; REPLACE WITH PVC (150 PSI) OR DI. NEW GRAVITY MAIN OR FORCE MAIN REQUIRES PVC (150 PSI) OR DI.
 • SEPARATE TRENCHES SHALL BE USED.
 CASE 2. NEW POTABLE WATER MAIN CROSSING EXISTING GRAVITY SANITARY SEWER MAIN OR EXISTING FORCE MAIN (PER TCEQ §26.44(a)(3) & §26.44(a)(4)).
 • LOCATION: WATER ABOVE SEWER OR FORCE MAIN.
 • SEWER MATERIALS: EXISTING GRAVITY MAIN (PVC 60PSI OR CLAY) OR FORCE MAIN TO REMAIN IF NOT LEAKING; REPLACE ONE PIPE SEGMENT PER CASE 1 REQUIREMENTS.
 • CENTER ONE SEGMENT OF WATER PIPE OVER SEWER MAIN OR FORCE MAIN.
 • MINIMUM PIPE SEGMENT LENGTH FOR WATER PIPE SHALL BE 18 FEET LONG.
 CASE 3. NEW POTABLE WATER MAIN CROSSING NEW GRAVITY SANITARY SEWER MAIN OR NEW FORCE MAIN (PER TCEQ §26.44(a)(3) & §26.44(a)(4)).
 • LOCATION: WATER ABOVE SEWER OR FORCE MAIN.
 • SEWER MATERIALS: NEW GRAVITY MAIN (PVC 150PSI OR DI) REQUIRED; FORCE MAIN TO BE EMBEDDED IN CEMENT STABILIZED BACKFILL THE TOTAL LENGTH OF ONE PIPE FLOR OF EACH END.
 • CENTER ONE SEGMENT OF WATER PIPE OVER SEWER PIPE OR FORCE MAIN.
 • MINIMUM PIPE SEGMENT LENGTH FOR WATER AND SEWER SHALL BE 18 FEET LONG.
 • FOR NEW GRAVITY SEWER ONLY: IN PLACE OF PVC (150PSI) OR DI, INSTALL ONE PIPE SEGMENT OF SEWER MAIN MUST BE EMBEDDED IN CEMENT STABILIZED BACKFILL THE TOTAL LENGTH OF ONE PIPE PLUS 12" BEYOND THE JOINT AT EACH END.
 CASE 4. NEW POTABLE WATER MAIN CROSSING NEW GRAVITY SANITARY SEWER MAIN OR NEW FORCE MAIN (PER TCEQ §26.44(a)(3) & §26.44(a)(4)).
 • LOCATION: WATER ABOVE SEWER OR FORCE MAIN.
 • SEWER MATERIALS: NEW GRAVITY MAIN (PVC 150PSI OR DI) REQUIRED; FORCE MAIN TO BE EMBEDDED IN CEMENT STABILIZED BACKFILL THE TOTAL LENGTH OF ONE PIPE PLUS 12" BEYOND THE JOINT AT EACH END.
 • CENTER ONE SEGMENT OF WATER PIPE OVER SEWER PIPE OR FORCE MAIN.
 • MINIMUM PIPE SEGMENT LENGTH FOR WATER AND SEWER SHALL BE 18 FEET LONG.
 • FOR NEW GRAVITY SEWER ONLY: IN PLACE OF PVC (150PSI) OR DI, INSTALL ONE PIPE SEGMENT OF SEWER MAIN MUST BE EMBEDDED IN CEMENT STABILIZED BACKFILL THE TOTAL LENGTH OF ONE PIPE PLUS 12" BEYOND THE JOINT AT EACH END.
 CASE 5. NEW GRAVITY SANITARY SEWER MAIN OR NEW FORCE MAIN CROSSING NEW POTABLE WATER MAIN (PER TCEQ §26.44(a)(3) & §26.44(a)(4)).
 • LOCATION: SEWER OR FORCE MAIN ABOVE WATER.
 • NEW GRAVITY MAIN OR FORCE MAIN REQUIRES ONE PIPE SEGMENT OF PVC (150 PSI) OR DI. IN ADDITION, WATER MAIN MUST BE 14" OR GREATER OR CLAY OR DI. STEEL, TWO REINFORCING RINGS LARGER THAN MAN AND AT LEAST 18 FEET LONG.
 • CENTER ONE SEGMENT OF SEWER PIPE ON WATER MAIN.



GENERAL NOTES:
 1. MANHOLE TYPE SHALL BE AS SHOWN ON THE PLANS.
 2. SEAL JOINTS PER SPECIFICATIONS.

CONSTRUCTION KEY NOTES:
 A. MANHOLE RING (SEE DETAIL 377).
 B. MANHOLE COVER (SEE DETAIL 378).
 C. CONCRETE ADJUSTMENT RINGS AS REQUIRED.
 D. MANHOLE CONE SECTION.
 E. MANHOLE BARREL SECTION.
 F. CONCRETE COLLAR (SEE DETAIL 184-1) FLUSH WITH TOP OF H.M.A.C.
 G. MANHOLE RING FLUSH WITH TOP OF CONCRETE, CONCRETE COLLAR NOT NEEDED.
 H. CONCRETE APRON (SEE DETAIL 184-2) FLUSH WITH MANHOLE RING AND 2" ABOVE NATURAL GROUND.



GENERAL NOTES:
 1. REFER TO UTILITY DETAIL FOR PAVEMENT REPLACEMENT AND BACKFILL REQUIREMENTS.
 2. TRENCH SAFETY SYSTEMS SHALL BE USED WHEN TRENCH DEPTH EXCEEDS 5 FEET.

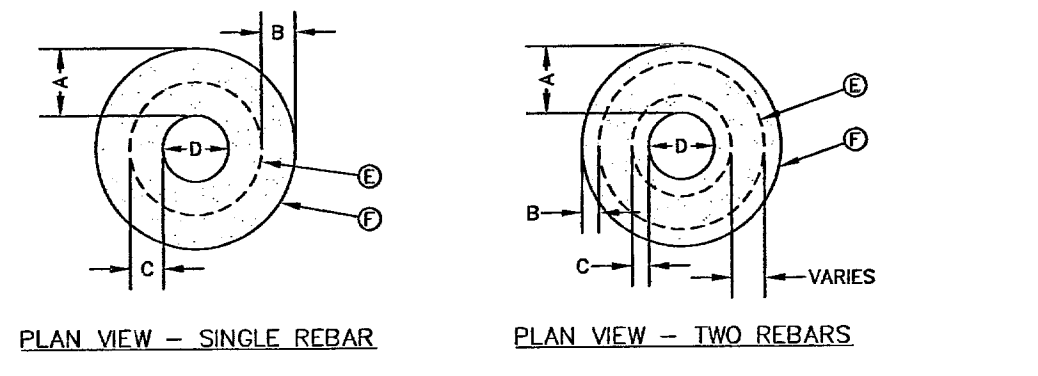
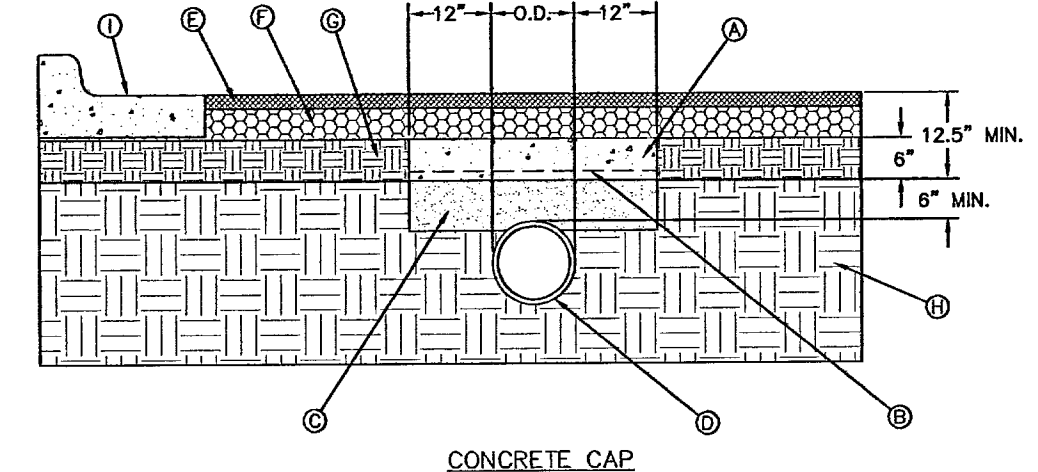
CONSTRUCTION KEY NOTES:
 A. COVER FOR WATER MAINS SHALL DEPEND ON THE PIPE SIZE AND THE FOLLOWING INSTALLATION CONDITIONS:
 CONDITION A - NORMAL LINE INSTALLATION, STREET AND DRAINAGE PROJECTS, WATERLINE RELOCATION
 CONDITION B - NEW SUBDIVISIONS, NON-PAVED AREA
 AND SHALL BE AS FOLLOWS:

PIPE SIZE	CONDITION	DIMENSION
6", 8"	A	D1 = 4"
6", 8"	B	D1 = 4"
12" & LARGER	A OR B	D1 = 5"

DETAIL C-7
 SCALE: N.T.S.

GENERAL NOTES:
 1. DETAIL USED WHEN STANDARD COVER CANNOT BE MET.
 2. NEW PAVEMENT ELEVATION, H.M.A.C. THICKNESS, BASE THICKNESS, AND SUB-BASE THICKNESS IS TO BE PROPOSED BY OTHERS.

CONSTRUCTION KEY NOTES:
 A. CONCRETE CAP 3000 P.S.I. CLASS "A"
 B. (6/8-10 W/M) WIRE MESH
 C. SAND CUSHION
 D. PROPOSED OR EXISTING PIPE
 E. H.M.A.C.
 F. BASE
 G. SUB-BASE
 H. COMPACTED BACKFILL
 I. CONCRETE CURB

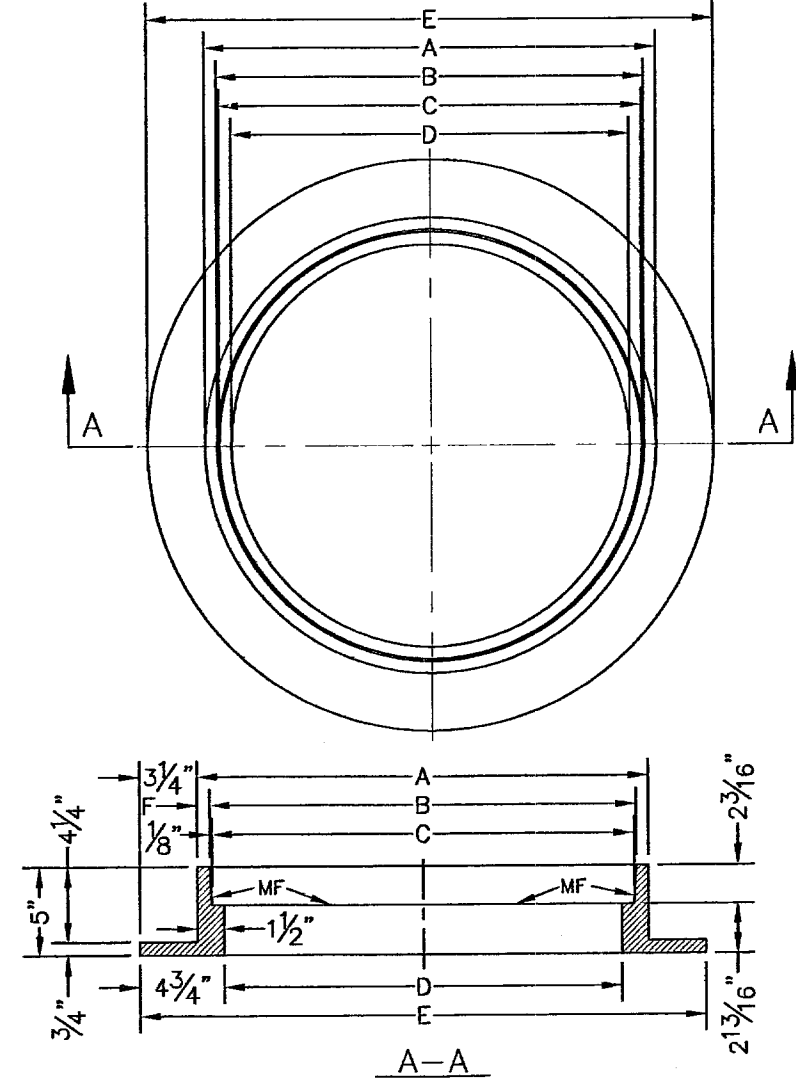


GENERAL NOTES:
 1. THE CONCRETE COLLAR SHOULD BE CAST IN-PLACE CONCRETE (MINIMUM 28 DAY COMPRESSIVE STRENGTH 4000 PSI. HIGH EARLY CONCRETE IS REQUIRED).
 2. TOPS OF CONCRETE COLLAR SHALL BE FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
 3. ANY DISTURBED SUBGRADE UNDER THE CONCRETE COLLAR SHALL BE COMPACTED TO 95% DENSITY ± 3% OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557.
 4. ANY DISTURBED BASE COURSE UNDER THE CONCRETE COLLAR SHALL BE COMPACTED TO 100% DENSITY ± 2% OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557.
 5. PROVIDE A MINIMUM OF 1 1/2" OF CONCRETE COVER FOR ALL REINFORCEMENT STEEL.
 6. REINFORCING SHALL MEET ASTM C-478 AND TRAFFIC LOADING (HS-20).
 7. NO. 3 REINFORCING STEEL HOOPS SHALL BE SPACED EQUALLY.

CONSTRUCTION KEY NOTES:
 E. #3 REINFORCING STEEL TYP.
 F. CONCRETE COLLAR.
 G. #3 REINFORCING STEEL EQUALLY SPACED.
 H. COMPACTED BASE COURSE.
 I. PAVEMENT.
 J. COMPACTED SUBGRADE.

"D" DIAMETER OF PENETRATION	NUMBER OF #3 REINFORCING STEEL BARS	"A" MINIMUM HORIZONTAL DIMENSION FROM FIBERATION	"B" MINIMUM CLEARANCE FROM EDGE OF COLLAR TO CENTER OF NEAREST REBAR	"C" MINIMUM CLEARANCE FROM CENTER OF COLLAR TO CENTER OF NEAREST REBAR
0" to 6"	1	6"	1 1/2"	4 1/2"
6 1/4" to 18"	2	6"	1 1/2"	1 1/2"
18 1/4" AND OVER	3	9"	1 1/2"	1 1/2"

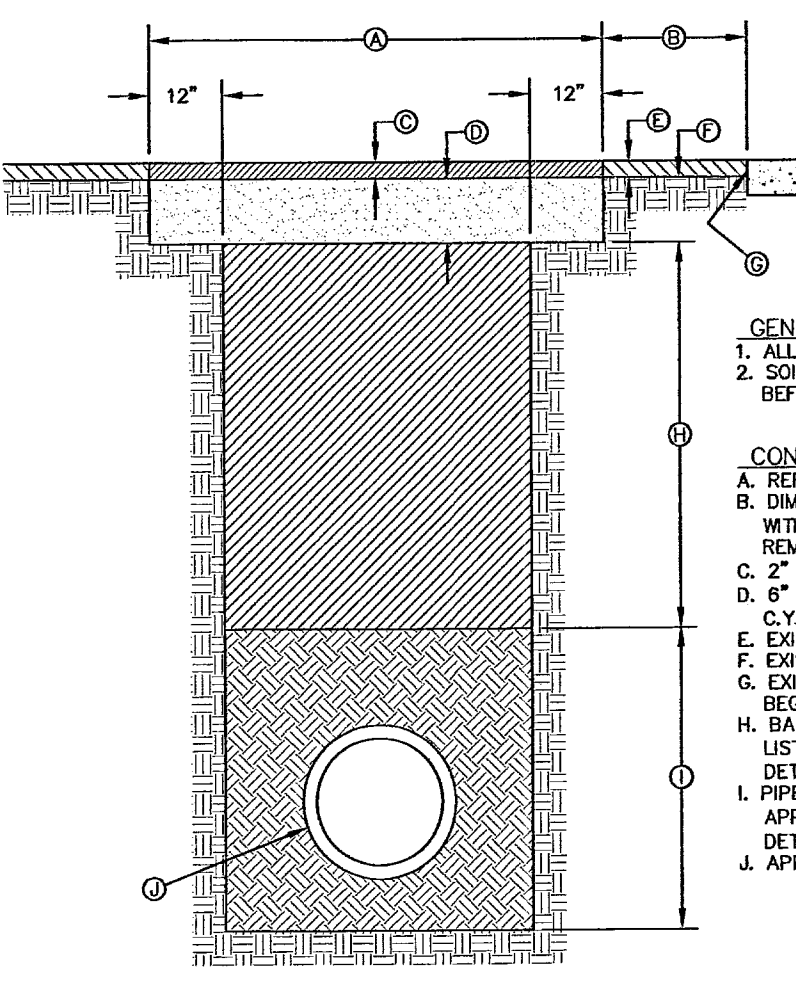
CONCRETE COLLAR INSTALLATION IN PAVED AREAS



GENERAL NOTES:
 1. MATCHING SURFACES MARKED "M" TO BE FINISHED TO ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
 3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
 4. AS-CAST DIMENSIONS MAY VARY 1/8" ± PER FOOT (AASHTO M306-07).
 5. WEIGHT MAY VARY 5% ± (AASHTO M306-07).

MANHOLE RING	MANHOLE - ALL TYPES	*MANHOLE TYPE A, A1, A2 & C
A	33"	25 1/2"
B	31 1/2"	24 1/2"
C	31 1/2"	23 1/2"
D	30"	22 1/2"
E	30 1/2"	32"
F	3 1/2"	1 1/2"
WEIGHT	220 lbs.	170 lbs.

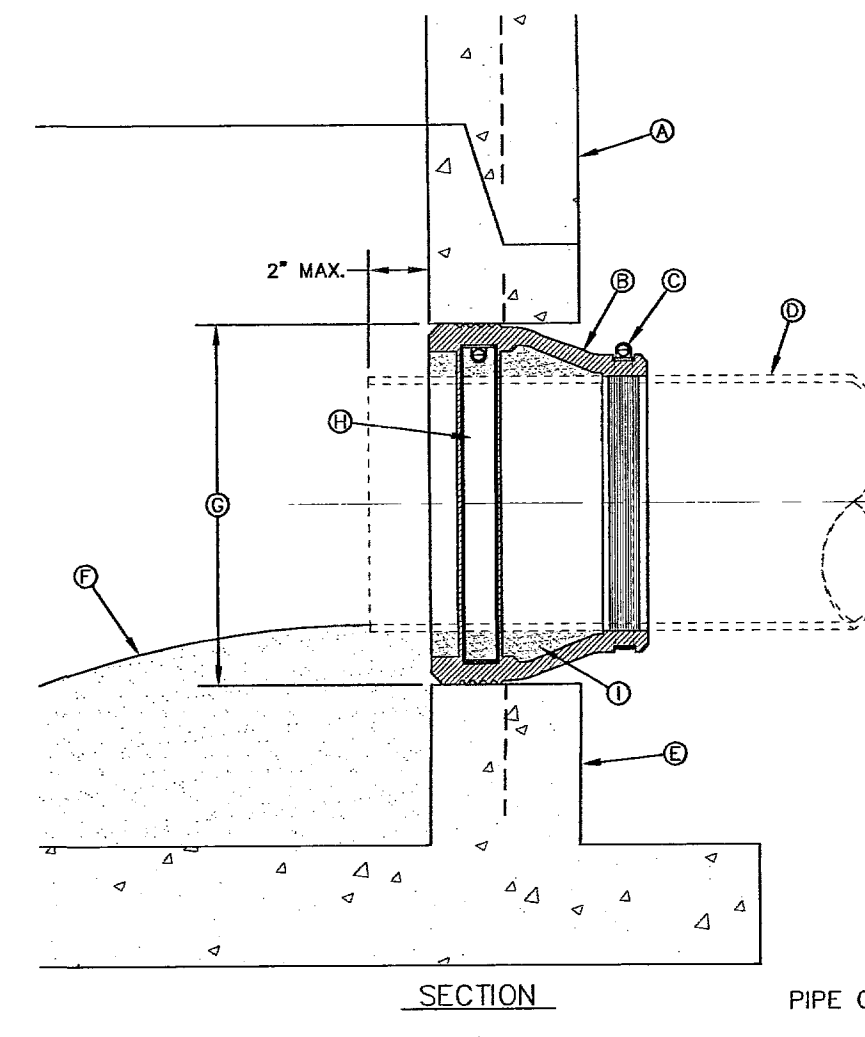
*OBSOLETE - DO NOT USE (FOR REFERENCE ONLY)



PAVEMENT REPLACEMENT

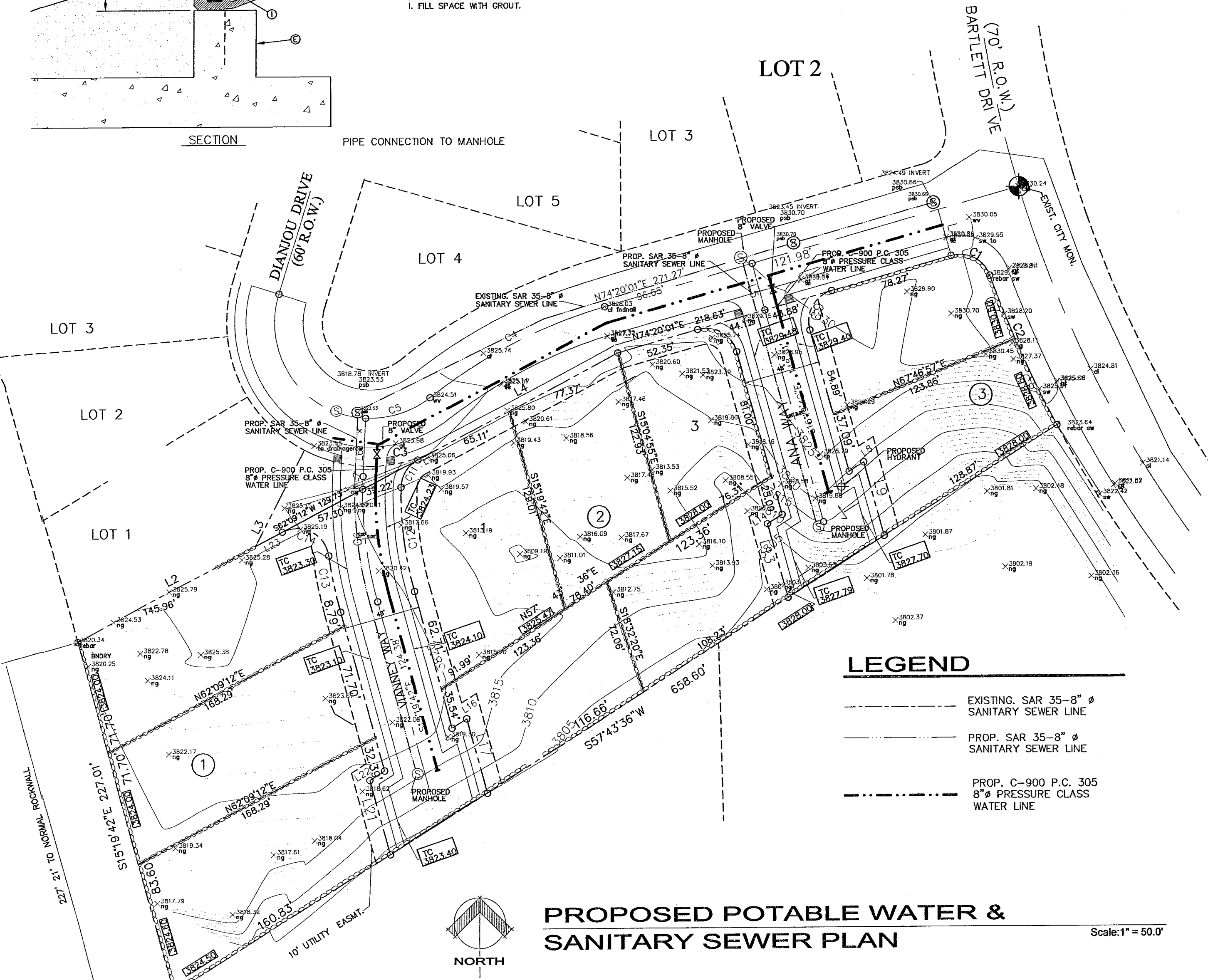
GENERAL NOTES:
 1. ALL ASPHALT CUTS MUST BE SAW CUT.
 2. SOIL CEMENT SLURRY SHALL BE ALLOWED TO CURE BEFORE PAVING OR OPENING TO ALL TRAFFIC.

CONSTRUCTION KEY NOTES:
 A. REFER TO SPECS FOR LIMIT OF PAVING WIDTH.
 B. DIMENSION VARIES, WHERE OUTER FACE, ETC. IS WITHIN 3" OF SAW CUT EDGE, CONTRACTOR SHALL REMOVE & REPLACE EXISTING H.M.A.C. IN THIS AREA.
 C. 2" ASPHALT MIN.
 D. 6" THICK SOIL CEMENT BACKFILL (2 SACK PER C.Y.).
 E. EXISTING H.M.A.C. THICKNESS MAY VARY.
 F. EXISTING BASE COURSE THICKNESS MAY VARY.
 G. EXISTING CUTTER FACE, EDGE OF PAVEMENT OR BEGINNING OF SHOULDER.
 H. BACKFILL DEPTH VARIES, REFER TO REQUIREMENTS LISTED IN EMBEDED DETAILS (DETAIL 171 THRU DETAIL 173).
 I. PIPE BEDDING AS SPECIFIED, REFER TO APPROPRIATE EMBEDED DETAIL (DETAIL 171 THRU DETAIL 173).
 J. APPROVED PIPE.



GENERAL NOTES:
 1. MANHOLE CONNECTOR SHALL BE KOR-N-SEAL OR EQUAL MEETING THE REQUIREMENTS OF ASTM C-923. CONNECTOR SHALL BE FURNISHED BY CONTRACTOR.

CONSTRUCTION KEY NOTES:
 A. PRECAST MANHOLE BARREL.
 B. FLEXIBLE CONNECTOR.
 C. PIPE CLAMP SS 316.
 D. APPROVED PIPE.
 E. PRECAST MANHOLE BASE.
 F. GROUT AS REQUIRED TO FORM SMOOTH CHANNEL TO MANHOLE INVERT.
 G. PIPE OPENING/KNOCKOUTS AS REQUIRED TO FIT PIPE SIZE.
 H. EXPANSION BAND SS 316.
 I. FILL SPACE WITH GROUT.



LEGEND

- EXISTING SAR 35-8" SANITARY SEWER LINE
- PROP. SAR 35-8" SANITARY SEWER LINE
- PROP. C-900 P.C. 305 8" PRESSURE CLASS WATER LINE

PROPOSED POTABLE WATER & SANITARY SEWER PLAN

Scale: 1" = 60'

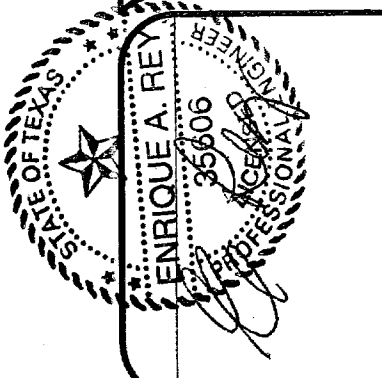
REVISIONS

03-29-10
05-05-10
07-21-10

PROJECT ARCHITECT: _____
 PROJECT NUMBER: _____
 DRAWING BY: _____
 DATE: 10-17-09
 FILE: _____

OWNER: _____
 PROJECT NAME: _____
 EL PASO, TEXAS

DIANJOU PLACE IMPROVEMENTS
 DIANJOU DRIVE



7 Sep 2010

REY ENGINEERING
 CONSULTING ENGINEERING - SURVEYING - LAND PLANNING
 11005 DSB HWY 101 (S) 3047-1886

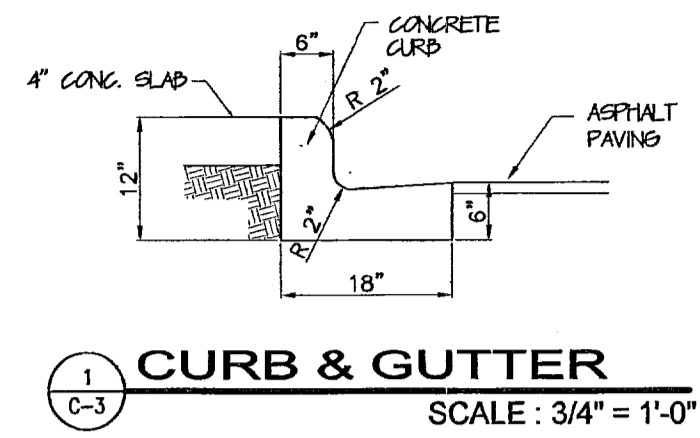
SHEET TITLE
PROPOSED POTABLE WATER + SANITARY SEWER PLAN + DETAILS

C-4

SHT. 06 OF 14

103169

DESCRIPTION	EXISTING	PROPOSED
EXISTING GROUND	---	---
PROPERTY LINE	---	---
CONTOUR LINE	---	---
ROCKWALL	---	---
SPOT ELEVATION	• 47.50 GR	• 49.73 W
TOP OF SIDEWALK ELEVATION	• 47.50 SW	• 49.73 SW
TOP OF CURB ELEVATION	• 36.01 TC	• 49.73 TC
TOP OF PAVEMENT ELEVATION	• 36.51 P	• 49.73 P
DRAINAGE FLOW	→	→
HIGH POINT	↑	↑
LOW POINT	↓	↓
POWER POLE	⊕	⊕
FIRE HYD	⊕	⊕
ELECTRIC BOX	⊕	⊕
WSA= WATER SHED AREAS	---	---



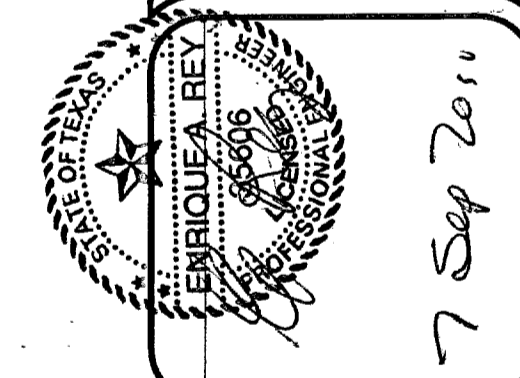
CURVE	LENGTH	RADIUS	CHORD	TANGENT	CHORD BEARING	DELTA
C1	29.83	20.00	27.14	18.48	N62°55'54"W	85°28'10"
C2	102.75	769.89	102.67	51.45	S24°01'13"E	7°38'47"
C3	86.87	90.00	83.54	47.16	N89°48'18"E	55°18'21"
C4	124.41	312.55	123.59	63.04	S62°56'29"W	22°47'05"
C5	43.32	60.00	42.38	22.65	N72°13'50"E	41°21'48"
C6	79.59	250.00	79.25	40.13	S08°12'29"E	18°14'26"
C7	42.47	769.89	42.46	21.24	S21°46'38"E	3°09'37"
C8	60.28	769.89	60.26	30.16	S25°36'01"E	4°28'10"
C9	31.30	20.00	28.20	19.88	S29°30'10"W	89°38'43"
C10	31.53	20.00	28.21	20.12	N60°29'50"W	90°20'17"
C11	21.19	20.00	20.21	11.71	S31°48'13"W	60°41'59"
C12	66.20	226.00	65.96	33.34	S06°56'14"E	16°46'55"
C13	36.04	274.00	36.01	18.04	S11°33'38"E	7°32'08"
C14	38.42	20.00	32.78	28.59	N62°49'11"W	110°03'14"

REVISIONS
△ 03-29-10
△ 05-05-10
△ 06-03-10
△ 06-11-10
△ 07-21-10
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PROJECT ARCHITECT: _____
 PROJECT NUMBER: _____
 DRAWING BY: _____
 DATE: 10-17-09
 FILE: _____

OWNER: _____
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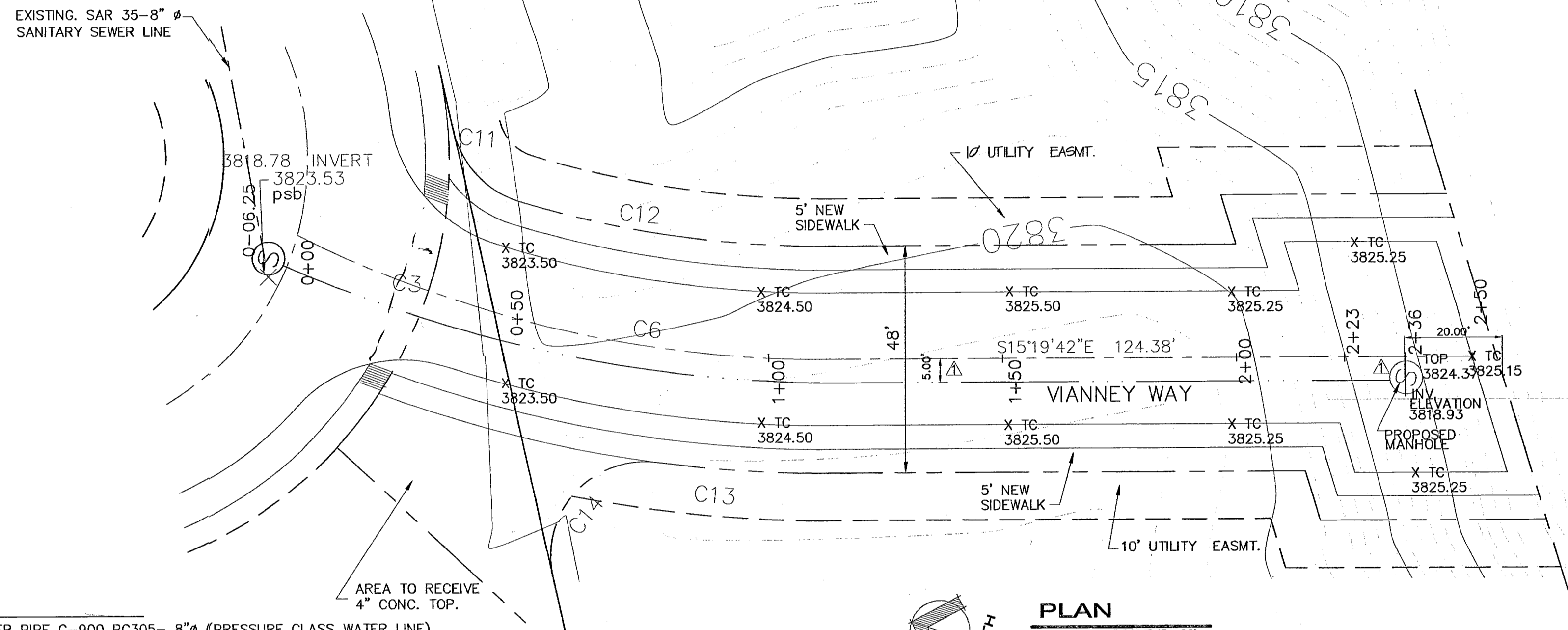
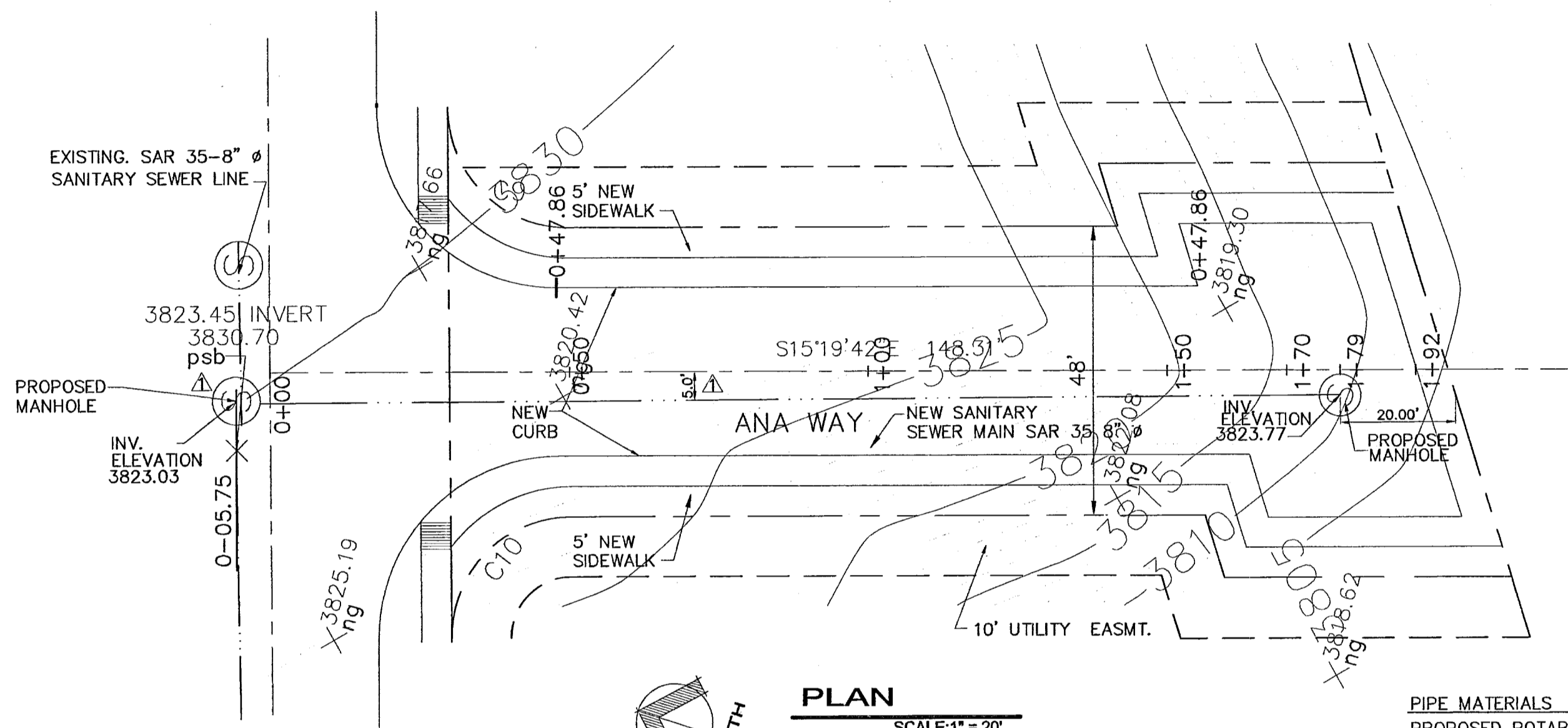
PROJECT NAME: **DIANJOU PLACE IMPROVEMENTS**
 EL PASO, TEXAS
 DIANJOU DRIVE



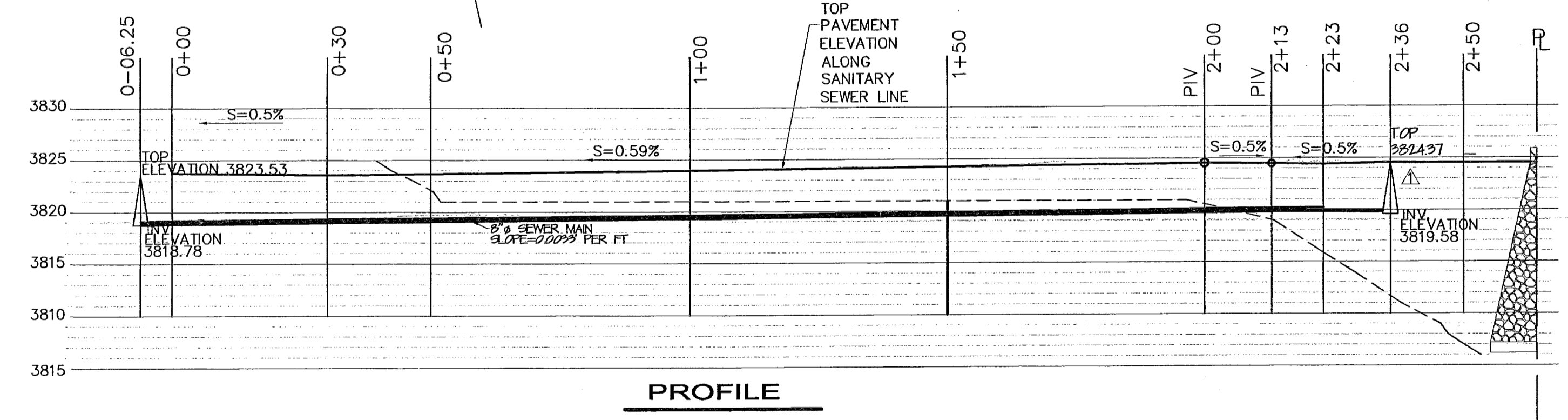
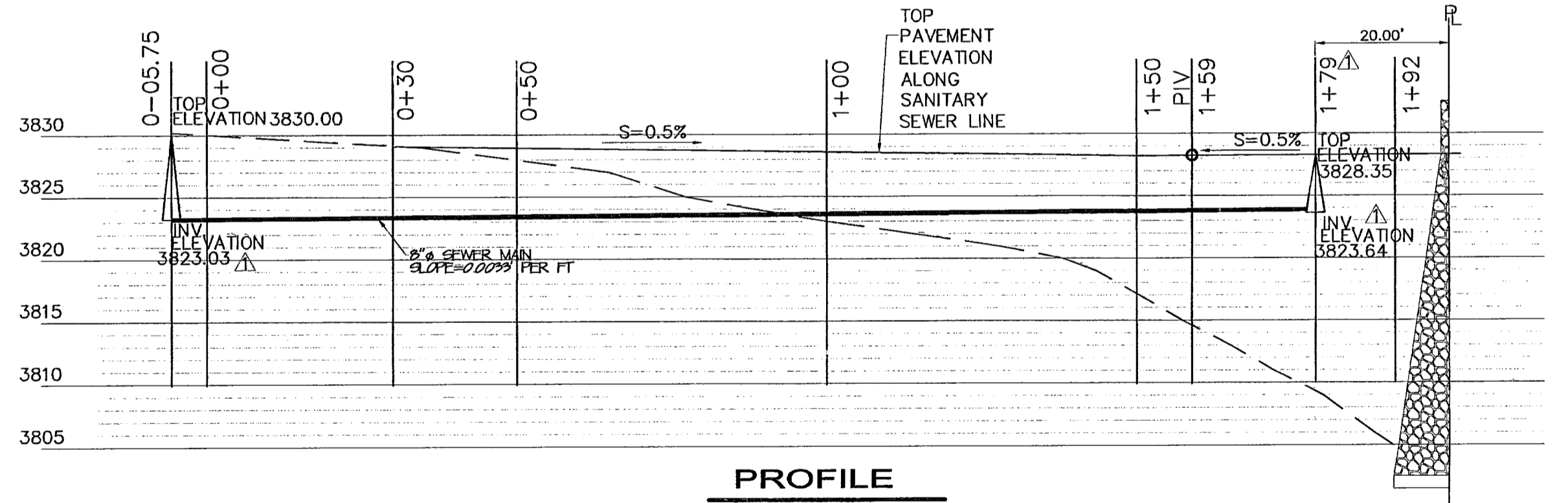
7 Sep 2010

REY ENGINEERING
 CONSULTING ENGINEERS ARCHITECTS PLANNING
 13148 BOB WITCHER DRIVE, EL PASO, TEXAS 79906
 (915) 394-1889
 TEXAS FIRM REGISTRATION NUMBER
 F-3368

SHEET TITLE
 STREETS SANITARY SEWER
 PLAN - PROFILE
 & SECTION
C-5
 SHT. 07 OF 13

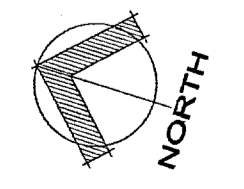


PIPE MATERIALS
 PROPOSED POTABLE WATER PIPE C-900 PC305- 8" (PRESSURE CLASS WATER LINE)
 PROPOSED SANITARY SEWER LINE SAR 35 - 8" (PRESSURE CLASS WATER LINE)
 PROPOSED STORM SEWER PIPE ADS N-12 - 24"

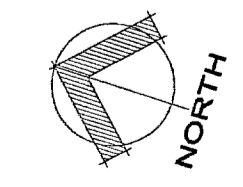


STA	MH INV. ELEVATION	TOP PAVEMENT ELEVATION ALONG SANITARY SEWER LINE
0-05.75	3823.03	3830.28
0+00		
0+30	3823.15	3828.90
0+50	3823.21	3828.90
1+00	3823.38	3828.55
1+50	3823.54	3828.30
1+50 PIV	3823.57	3828.25
1+59		
1+79	3823.64	3828.35
1+92		3828.42

STA	SEWER INV. ELEVATION	PWMT TOP OF SANITARY SEWER LINE
0-06.25	3818.78	3823.53
0+00	3818.60	3823.70
0+30	3818.89	3823.57
0+50	3818.97	3823.67
1+00	3819.31	3823.92
1+50	3819.30	3824.17
PIV 2+00	3819.47	3824.57
PIV 2+13	3819.51	3824.51
2+23	3819.54	
2+36	3819.58	3824.57
2+50		



NEW SANITARY SEWER LINE
 SCALE: HORIZ.-1" = 20"
 SCALE: VERT.-1" = 10"



NEW SANITARY SEWER LINE
 SCALE: HORIZ.-1" = 20"
 SCALE: VERT.-1" = 10"

103169

REVISIONS	
△	03-29-10
△	05-05-10
△	06-03-10
△	07-21-10
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△	

PROJECT ARCHITECT:	PROJECT NUMBER:
DRAWING BY:	DATE:
FILE:	10-17-09

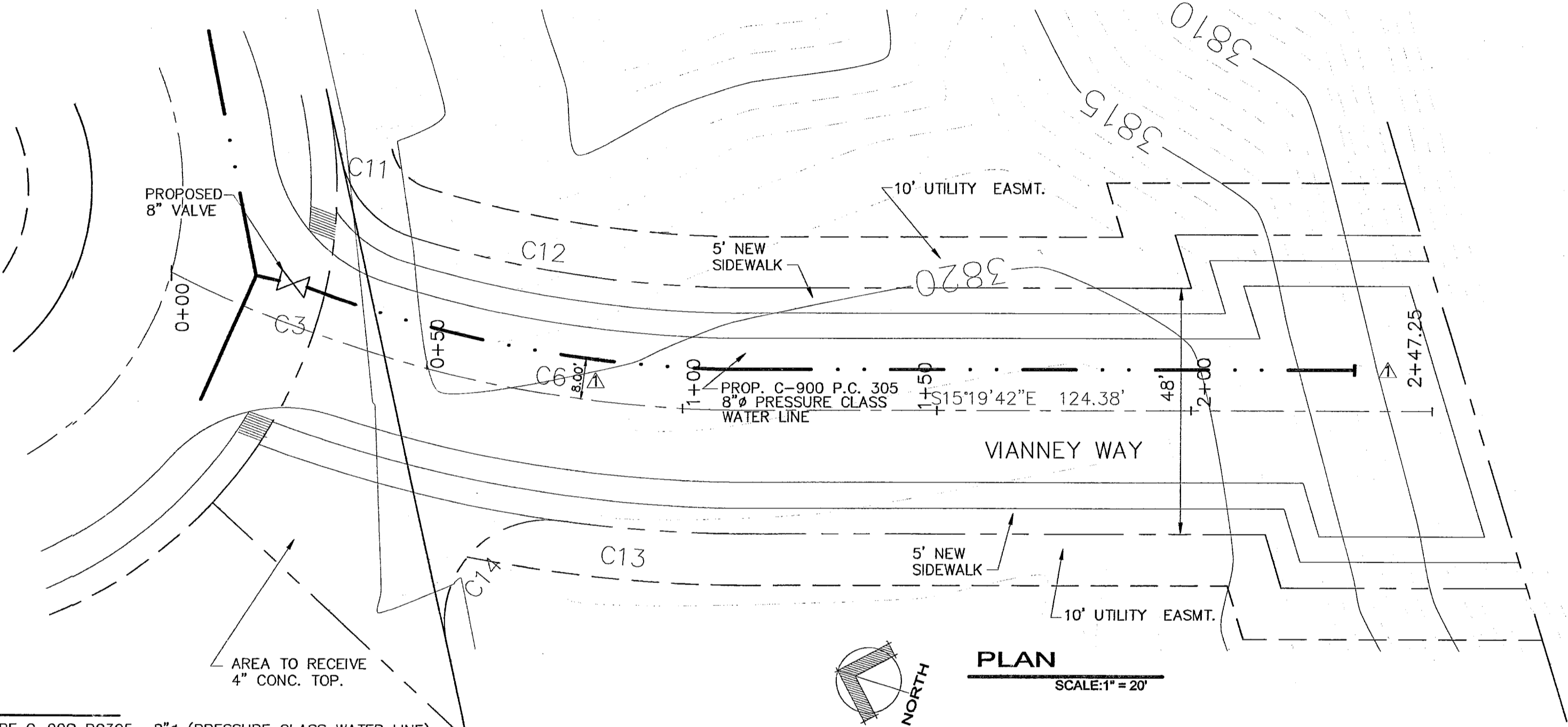
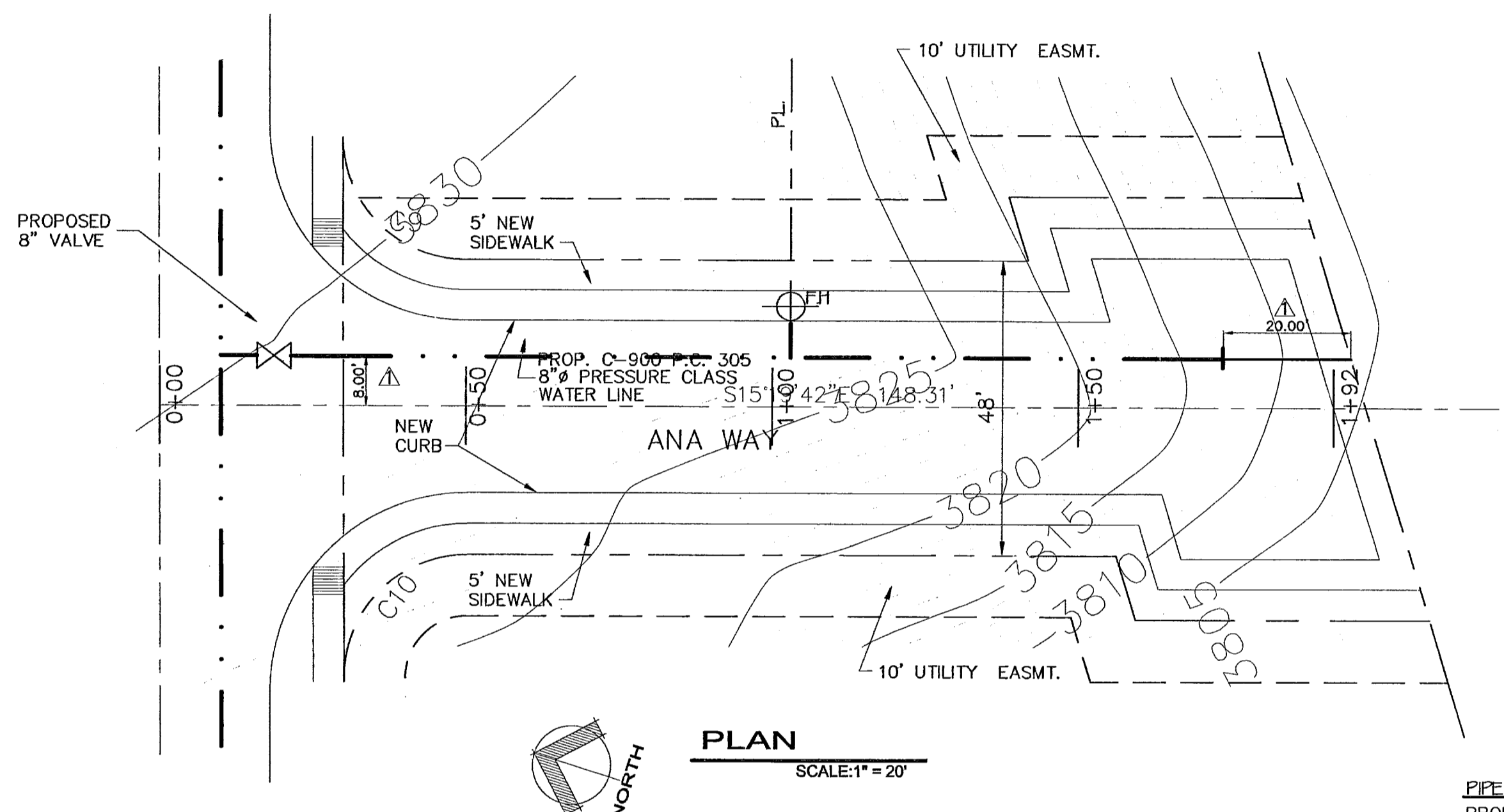
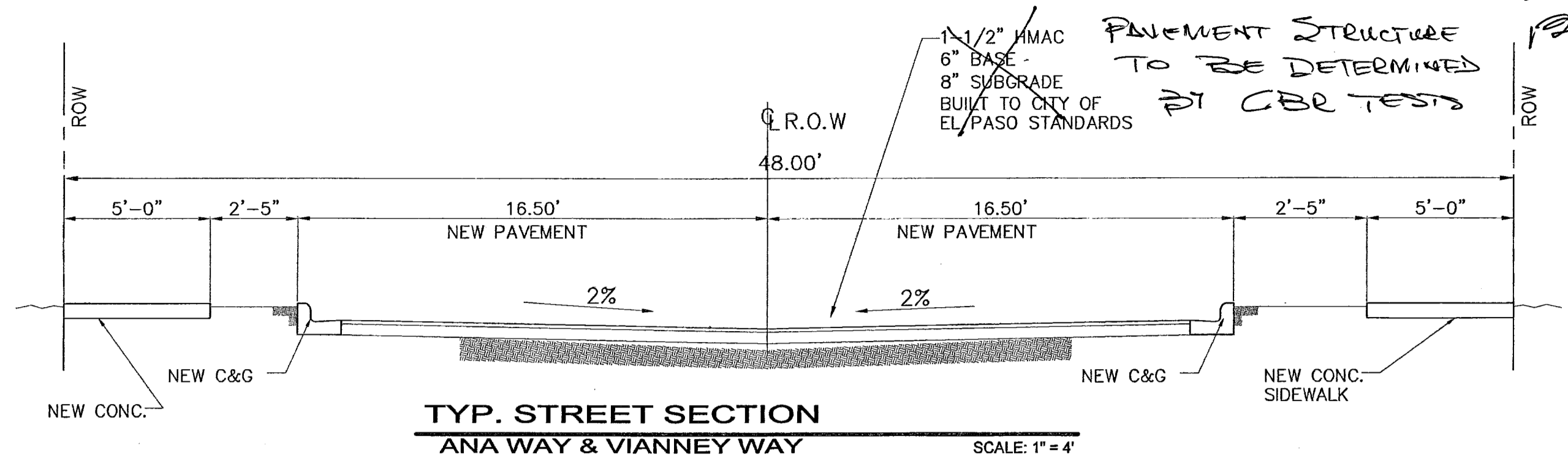
OWNER
XXXXXX

PROJECT NAME
DIANJOU PLACE IMPROVEMENTS
DIANJOU DRIVE
EL PASO, TEXAS

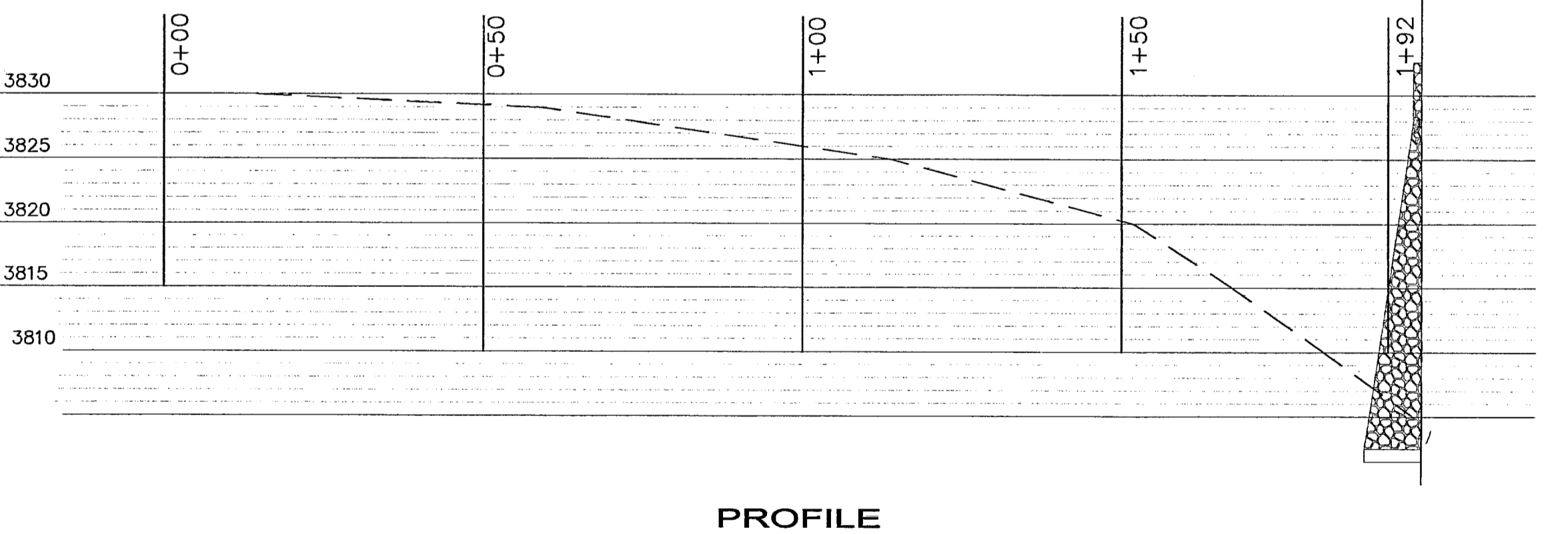
EMILIO A. REY
REGISTERED PROFESSIONAL ENGINEER
No. 35906
STATE OF TEXAS
7 Sep 2010

REY ENGINEERING
CONSULTING ENGINEERS, SURVEYING AND PLANNING
10328 BOB MITCHELL DR., EL PASO, TEXAS 79926
(915) 355-8859
TEXAS FIRM REGISTRATION NUMBER
F-3368

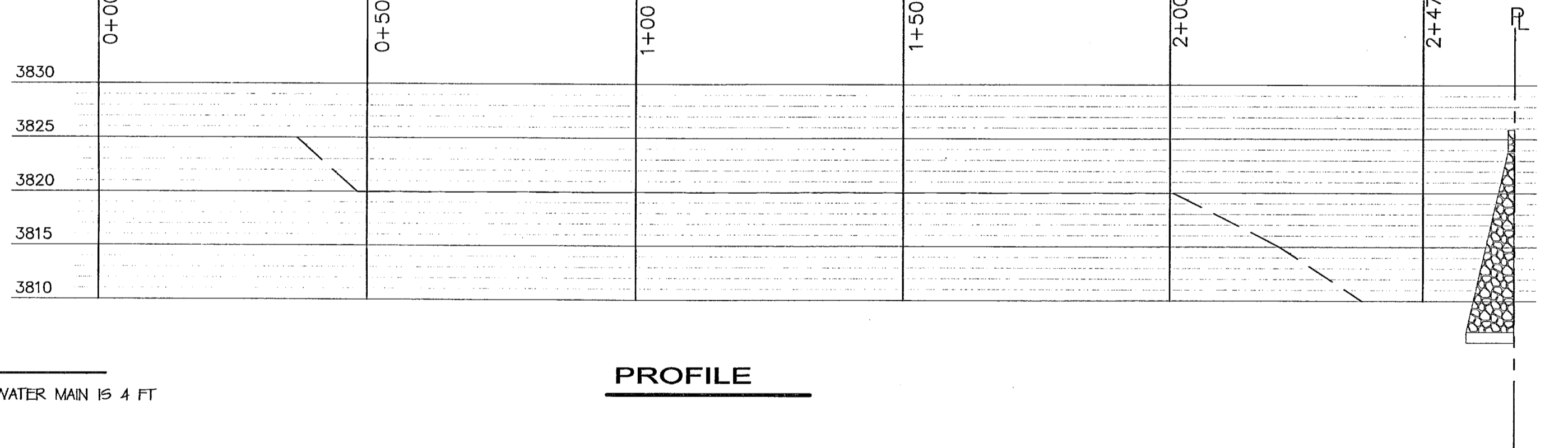
SHEET TITLE
STREETS WATER LINE
PLAN - PROFILE
& SECTION
C-6
SHT. 08 OF 14



PIPE MATERIALS
 PROPOSED POTABLE WATER PIPE C-900 PC305 - 8" (PRESSURE CLASS WATER LINE)
 PROPOSED SANITARY SEWER LINE SAR 35 - 8"
 PROPOSED STORM SEWER PIPE ADS N-12 - 24"



NOTES:
 -MINIMUM COVER FOR POTABLE WATER MAIN IS 4 FT



STA	EXISTING ELEVATION	TOP OF NEW CONC. CURB ELEVATION
0+00	3829.29	3829.29
0+50		
1+00		
1+50		
1+92		

STA	EXISTING ELEVATION	TOP OF NEW CONC. CURB ELEVATION
0+00	3823.55	3823.55
0+50		
1+00		
1+50		
2+00		
2+47.25		

NEW POTABLE WATER LINE
 SCALE: HORIZ.-1"=20'
 SCALE: VERT.-1"=10'

NEW POTABLE WATER LINE
 SCALE: HORIZ.-1"=20'
 SCALE: VERT.-1"=10'

103169

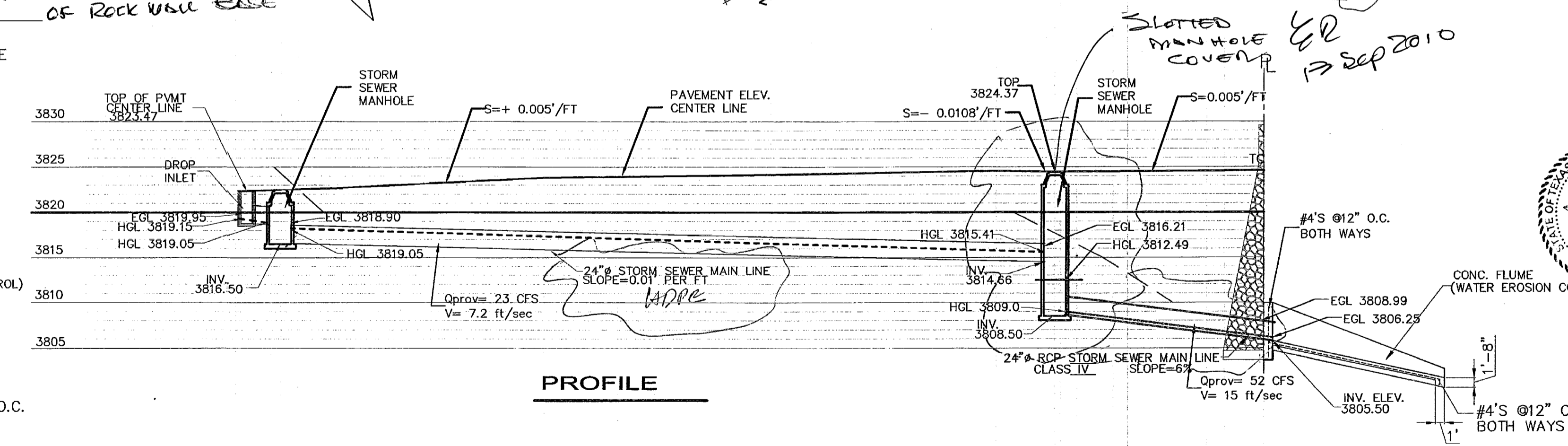
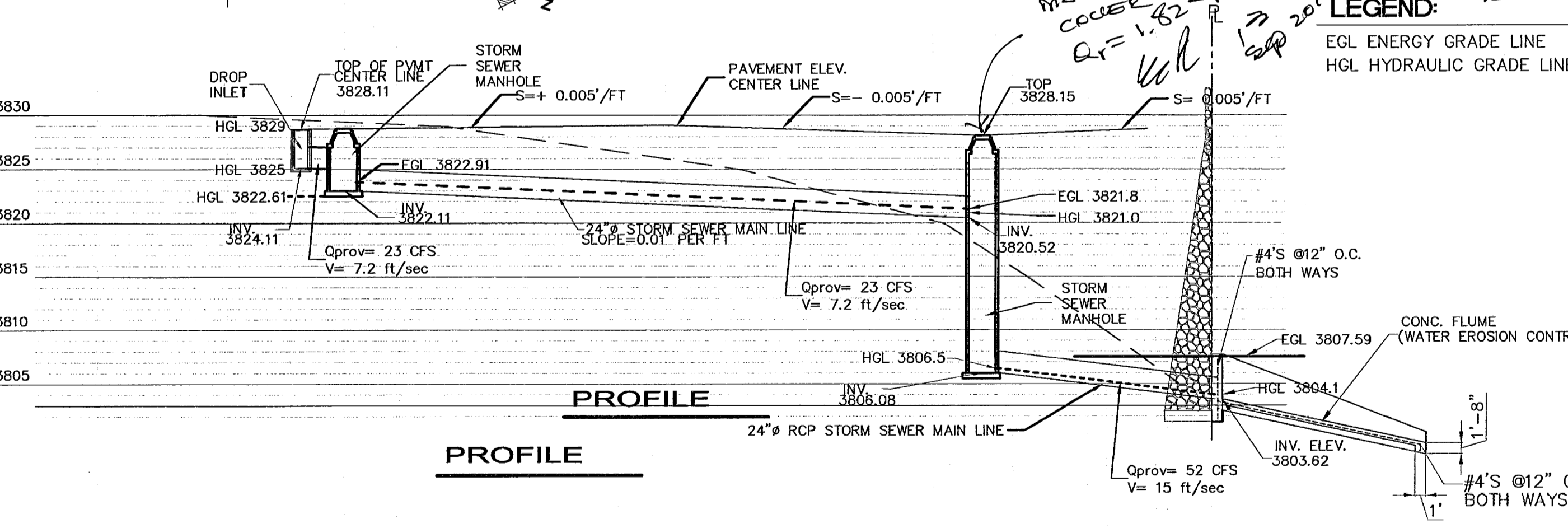
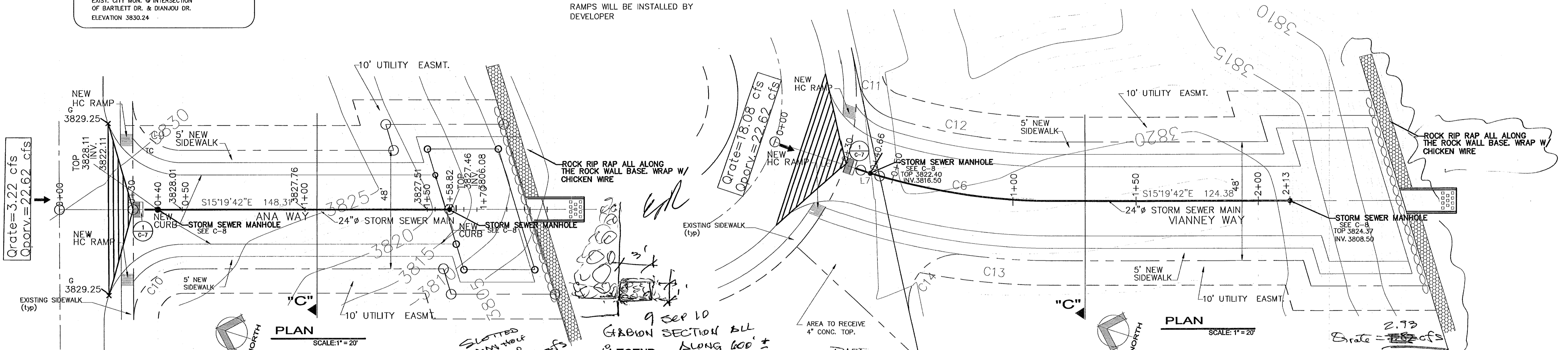
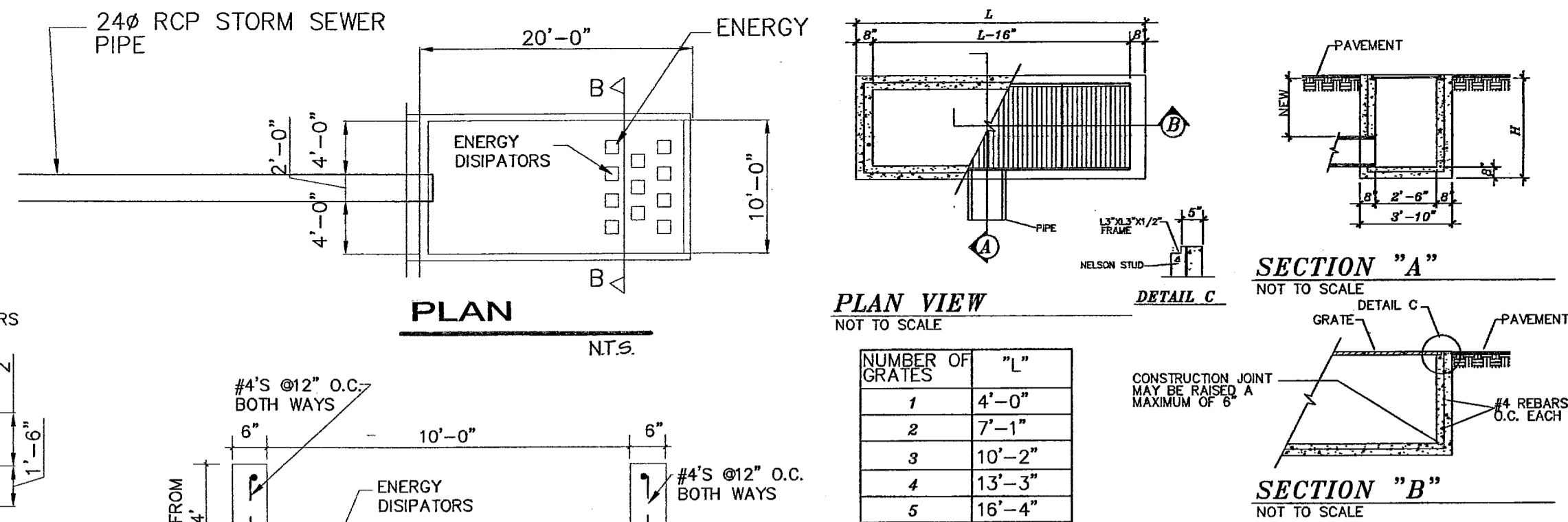
CURVE	LENGTH	RADIUS	CHORD	TANGENT	CHORD BEARING	DELTA
C1	29.83	20.00	27.14	18.48	N62°55'54"W	85°28'10"
C2	102.75	769.89	102.67	51.45	S24°01'13"E	7°38'47"
C3	86.87	90.00	83.54	47.16	N89°48'18"E	55°18'21"
C4	124.41	312.85	123.59	63.04	S62°56'29"W	22°47'05"
C5	43.32	60.00	42.38	22.65	N72°13'50"E	41°21'48"
C6	79.59	250.00	79.25	40.13	S06°12'29"E	18°14'26"
C7	42.47	769.89	42.46	21.24	S21°46'38"E	3°09'37"
C8	60.28	769.89	60.26	30.16	S25°36'01"E	4°29'10"
C9	31.30	20.00	28.20	19.88	S29°30'10"W	89°39'43"
C10	31.53	20.00	28.37	20.12	N60°29'50"W	90°20'17"
C11	21.19	20.00	20.21	11.71	S31°48'13"W	60°41'59"
C12	66.20	226.00	65.96	33.34	S06°56'14"E	16°46'55"
C13	36.04	274.00	36.01	18.04	S11°33'38"E	7°32'08"
C14	38.42	20.00	32.78	28.59	N62°49'11"W	110°03'14"

BENCHMARK

EXIST. CITY MON. @ INTERSECTION OF BARTLETT DR. & DIANJOU DR. ELEVATION 3830.24

NOTE:

ALL SIDEWALKS & HANDICAPPED RAMPS WILL BE INSTALLED BY DEVELOPER



CLASS IV SLOPE = 6%

STA	C.P.M. ELEVATION	STORM PIPE INVERT ELEVATION
0+00		
0+17.73		
0+18.27		
0+30	3828.80	3824.80
0+40	3828.11	3822.11
0+49.73	3828.89	
0+50.27		
PVI 1+00	3829.14	
1+49.89	3828.20	
1+53.00		
1+59.00	3828.15	3820.52
1+64.72		
1+78.72		3804.00
1+82.24		
1+91.42	3829.84	3829.84
1+93.61		
1+97.13		
2+01.91		

STA	C.P.M. ELEVATION	STORM PIPE INVERT ELEVATION
0+00		
0+10.64		
0+11.25		
0+30	3823.47	3816.50
0+38.33		
0+40.88		
0+44.88		
0+50	3823.57	
1+00	3823.87	
1+16.16		
1+50	3824.16	
2+00	3824.47	
2+12.23		
2+17.23	3824.37	3814.66
2+25.91		
2+29.16		
2+46.66	3824.65	
2+50.66		
2+59.36		

TOP OF ANA WAY EAST & WEST CURB & PVMT. ELEVATION

SCALE: HORIZ. 1"=20'
SCALE: VERT. 1"=10'

PIPE MATERIALS

PROPOSED POTABLE WATER PIPE C-900 PC305- 8" (PRESSURE CLASS WATER LINE)
 PROPOSED SANITARY SEWER LINE SAR 35 - 8"
 PROPOSED STORM SEWER PIPE ADS N-12 - 24"

TOP OF VIANNY EAST & WEST CURB & PVMT. ELEVATION

SCALE: HORIZ. 1"=20'
SCALE: VERT. 1"=10'

REVISIONS

03-29-10
05-05-10
07-21-10
09-07-10

PROJECT NUMBER: _____
 DRAWING BY: _____
 DATE: 10-17-09
 FILE: _____

OWNER: _____
 PROJECT NAME: _____
 EL PASO, TEXAS

DIANJOU PLACE IMPROVEMENTS
 DIANJOU DRIVE

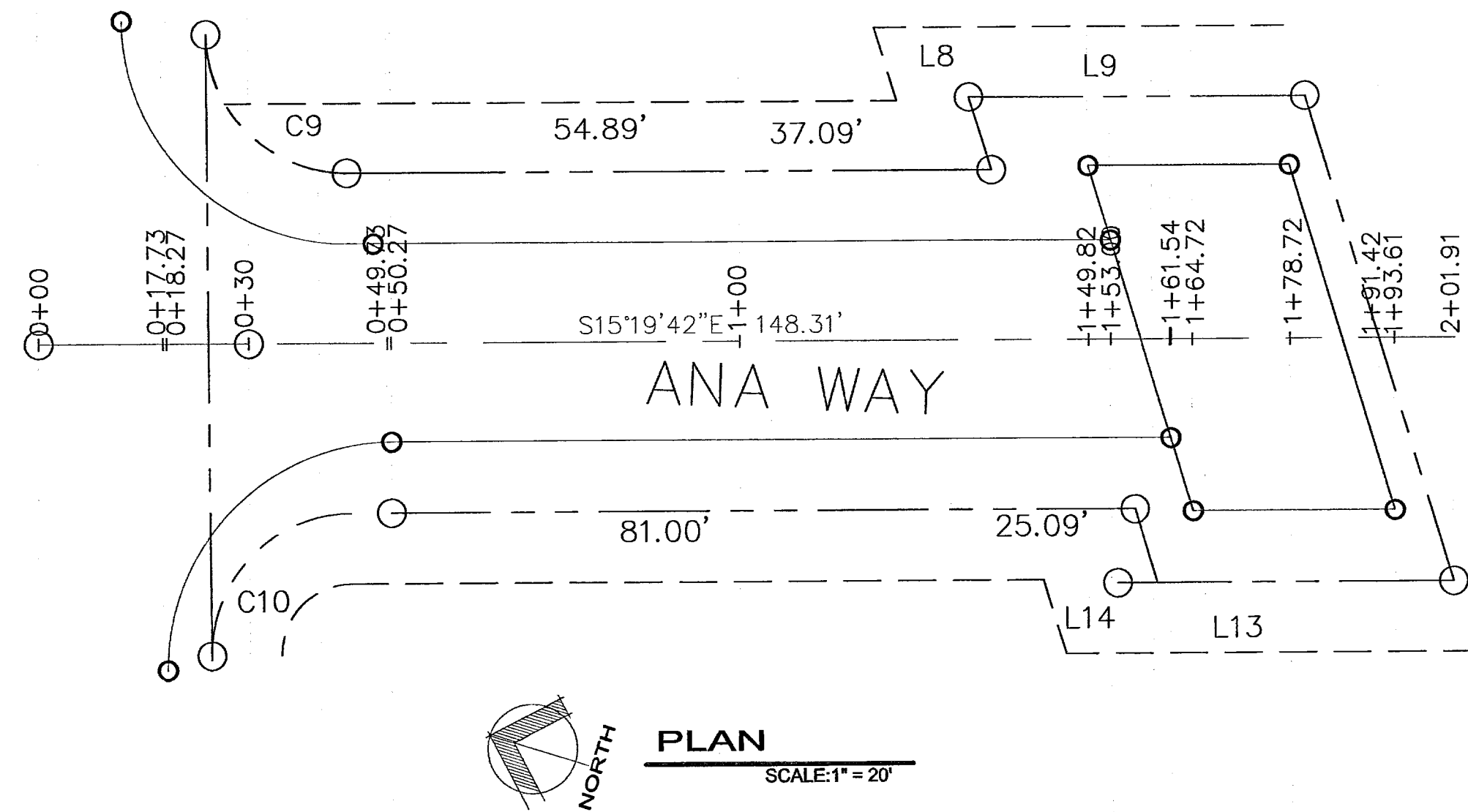
APPROVED BY: *[Signature]*
 9 SEP 2010

REY ENGINEERING
 CONSULTING ENGINEERS
 1343 BOB WITCHELL DR., EL PASO, TEXAS 79936
 (951) 309-1889
 TEXAS FIRM REGISTRATION NUMBER F-3568

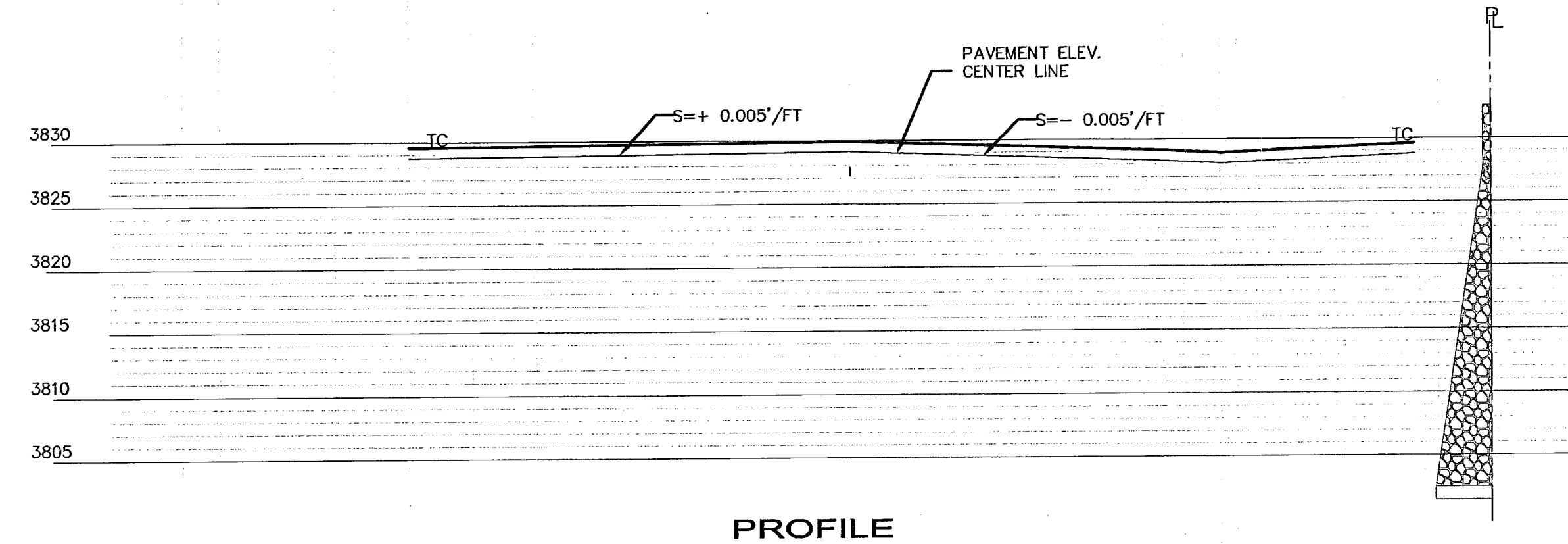
SHEET TITLE: PLAN PROFILE & STORM SEWER
C-7
 SHT. 09 OF 14

103169

CURVE TABLE						
CURVE	LENGTH	RADIUS	CHORD	TANGENT	CHORD BEARING	DELTA
C1	29.83	20.00	27.14	18.48	N62°55'54"W	85°28'10"
C2	102.75	769.89	102.67	51.45	S24°01'13"E	7°38'47"
C3	86.87	90.00	83.54	47.16	N89°48'18"E	55°18'21"
C4	124.41	312.85	123.59	63.04	S62°56'29"W	22°47'05"
C5	43.32	60.00	42.38	22.65	N72°13'50"E	41°21'48"
C6	79.59	250.00	79.25	40.13	S06°12'29"E	18°14'26"
C7	42.47	769.89	42.46	21.24	S21°46'38"E	3°09'37"
C8	60.28	769.89	60.26	30.16	S25°38'01"E	4°29'10"
C9	31.30	20.00	28.20	19.88	S29°30'10"W	89°39'43"
C10	31.53	20.00	28.37	20.12	N60°29'50"W	90°20'17"
C11	21.19	20.00	20.21	11.71	S31°48'13"W	60°41'59"
C12	66.20	226.00	65.96	33.34	S06°56'14"E	16°46'55"
C13	36.04	274.00	36.01	18.04	S11°33'38"E	7°32'08"
C14	38.42	20.00	32.78	28.59	N62°49'11"W	110°03'14"



PLAN
SCALE: 1" = 20'



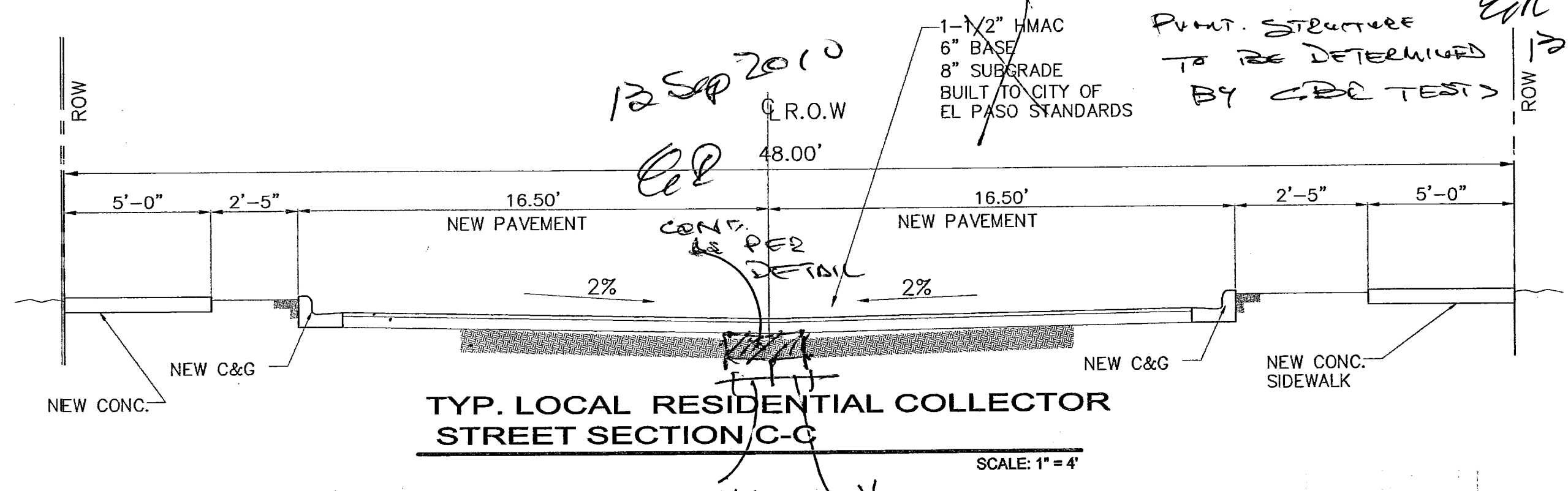
PROFILE

STA	EAST ELEVATION TC	WEST ELEVATION TC	C.M.M. ELEVATION
0+00			
0+17.73			
0+18.27			
0+30	3829.62	3829.62	3828.80
0+40			
0+49.73			
0+50.27	3829.72	3829.72	3828.89
1+00	3829.97	3829.97	3829.14
PVI			
1+49.82			
1+53.00			
1+59.00			
1+61.34			
1+64.72			
1+78.72			
1+91.42			
1+93.61	3829.84	3829.84	3828.20
2+01.91			
PVI			
1+59.00			
1+61.34			
1+64.72			
1+78.72			
1+91.42			
1+93.61			
2+01.91			

TOP OF ANA WAY EAST & WEST CURB & PVMT. ELEVATION

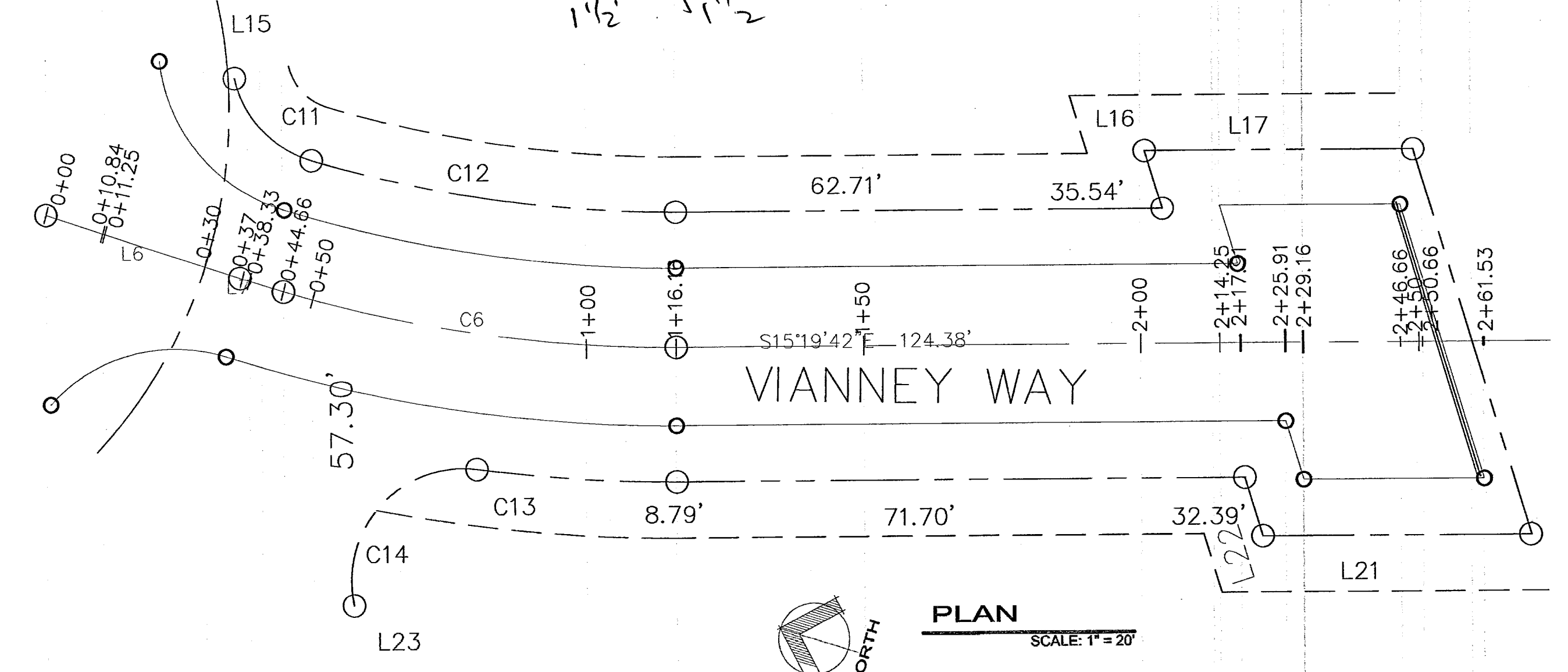
SCALE: HORIZ.-1" = 20'
SCALE: VERT.-1" = 10'

PIPE MATERIALS
PROPOSED POTABLE WATER PIPE C-900 PC305- 8" (PRESSURE CLASS WATER LINE)
PROPOSED SANITARY SEWER LINE SAR 35 - 8"
PROPOSED STORM SEWER PIPE ADS N-12 - 24"

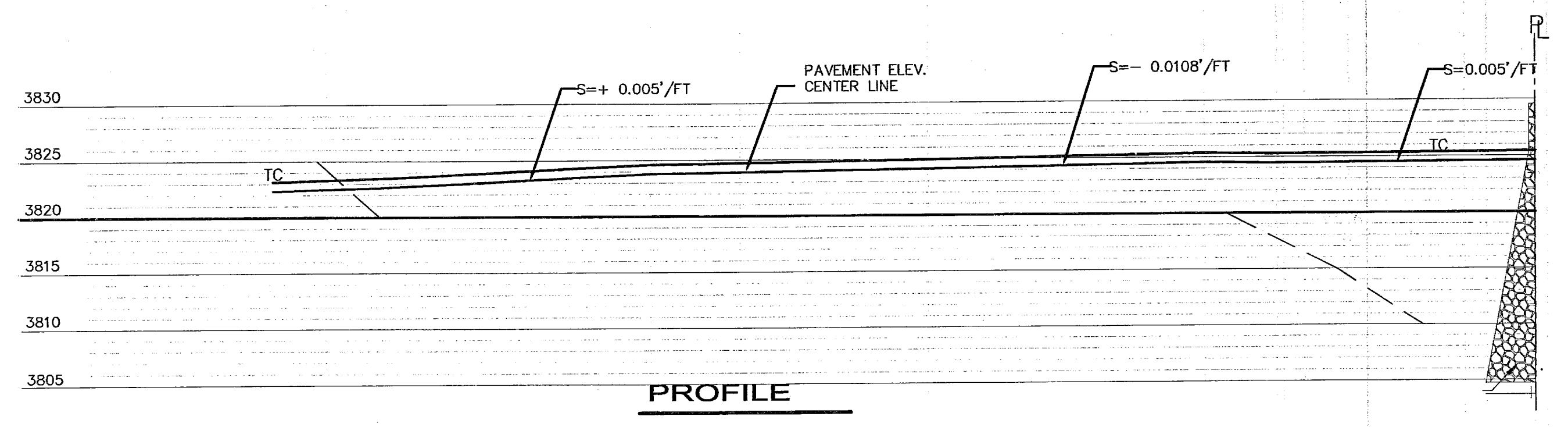


TYP. LOCAL RESIDENTIAL COLLECTOR STREET SECTION C-C

SCALE: 1" = 4'



PLAN
SCALE: 1" = 20'



PROFILE

STA	LEFT (EAST) T.C. ELEV.	RIGHT (WEST) T.C. ELEV.	P.V.M. ELEVATION
0+00	3823.55	3823.55	
0+10.84			
0+11.25			
0+30	3824.29	3824.29	3823.47
0+38.33			
0+40.66			
0+44.66			
0+50	3824.41	3824.41	3823.57
1+00	3824.70	3824.70	3823.87
1+16.16			
1+50	3824.99	3824.99	3824.16
2+00	3825.29	3825.29	3824.47
2+13			
2+14.25			
2+17.25	3825.15	3825.15	3824.37
2+25.91			
2+29.16			
2+46.66			
2+50.66	3825.32	3825.32	3824.65
2+50.66	3825.34	3825.34	3824.65
2+59.36			
2+61.53			

TOP OF VIANNEY EAST & WEST CURB & PVMT. ELEVATION

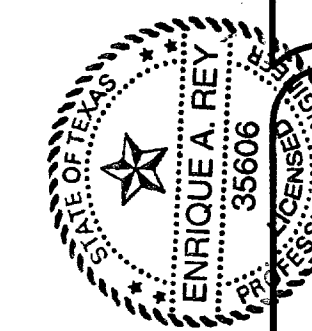
SCALE: HORIZ.-1" = 20'
SCALE: VERT.-1" = 10'

REVISIONS	
△	03-29-10
△	05-05-10
△	07-21-10
△	09-07-10
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PROJECT ARCHITECT:	
PROJECT NUMBER:	
DRAWING BY:	
DATE:	10-17-09
FILE:	

OWNER
XXXXXXXXXX

PROJECT NAME
DIANJOU PLACE IMPROVEMENTS
DIANJOU DRIVE
EL PASO, TEXAS



7 Sep 2010

REY ENGINEERING
CONSULTING ENGINEERING-SURVEYING-LAND PLANNING
1034 BOB MITCHELL BLVD SUITE 100
EL PASO, TEXAS 79906
TEXAS FIRM REGISTRATION NUMBER
F-5366

SHEET TITLE
PLAN PROFILE
CURBS, PVMT &

C-7.1
SHT. 10 OF 14

103169

REVISIONS	
△	03-29-10
△	05-05-10
△	07-21-10
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PROJECT ARCHITECT: _____
 PROJECT NUMBER: _____
 DRAWING BY: _____
 DATE: 10-17-09
 FILE: _____

OWNER: _____
 PROJECT NAME: _____
 ADDRESS: _____
 CITY: _____
 STATE: _____
 ZIP: _____

DIANJOU PLACE IMPROVEMENTS
 EL PASO, TEXAS
 DIANJOU DRIVE
 PROJECT NAME

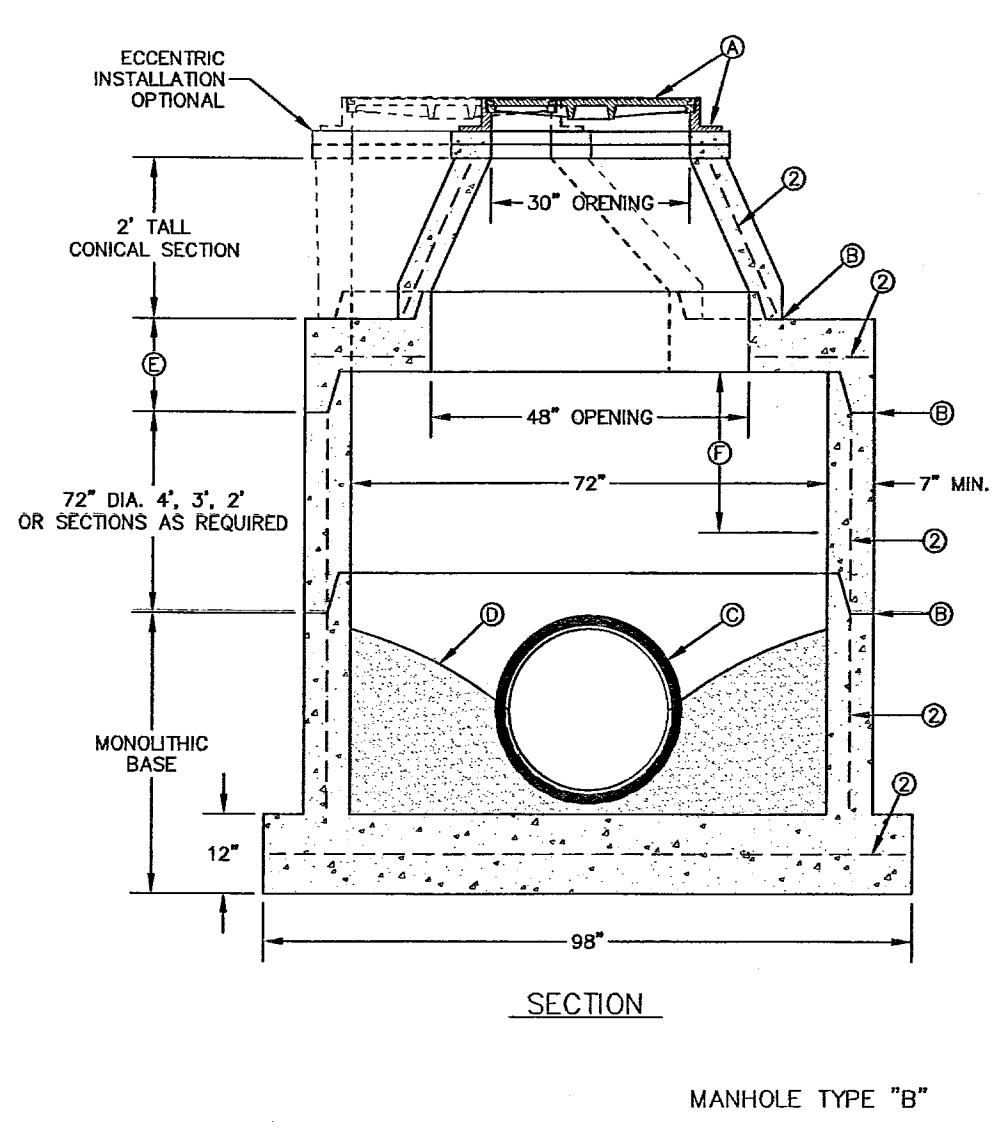
7 Sep 2010
 REY ENGINEERING
 CONSULTING ENGINEERS
 3506
 1148 N. DAVIS STREET, EL PASO, TEXAS 79906
 (915) 366-8899

REY ENGINEERING
 CONSULTING ENGINEERS
 1148 N. DAVIS STREET, EL PASO, TEXAS 79906
 (915) 366-8899

SHEET TITLE
PROPOSED POTABLE WATER + SANITARY SEWER PLAN + DETAILS
C-8
 SHT. 11 OF 14

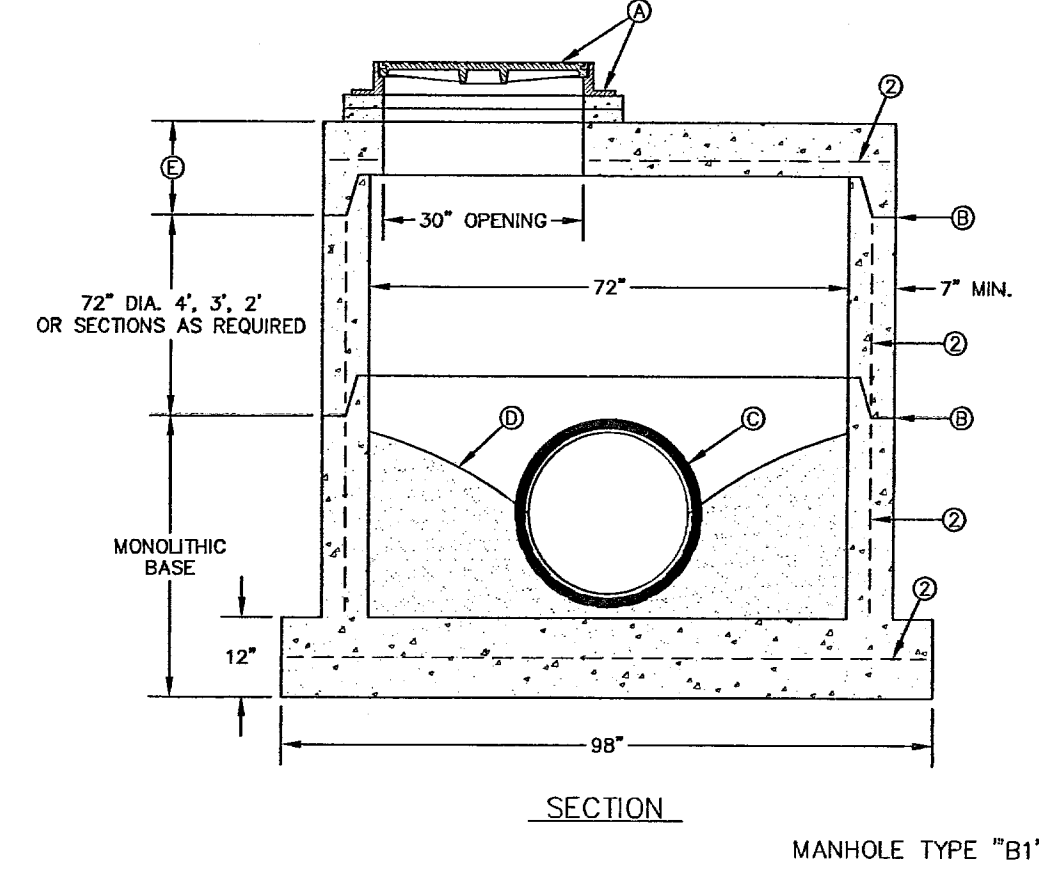
- GENERAL NOTES:**
- MANHOLE TYPE "B" SHALL BE USED FOR LINES 24" AND LARGER OR WHEN SEWER MONITORING EQUIPMENT IS REQUIRED.
 - PRE-CAST MANHOLE SECTIONS SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478 AND SHALL MEET HS-20 LOADING. PROVIDE REINFORCEMENT WITHIN 3" OF OPENINGS OR KNOCKOUTS, OPENINGS (UP TO 8") MADE IN FIELD SHALL BE CORE DRILLED.
 - CEMENT SHALL BE TYPE I-II, PER ASTM C-150, AND MUST CONTAIN A MINIMUM OF 4% FLY ASH OF THE TOTAL MANHOLE WEIGHT.
 - THE BASE & RISER SHALL BE INTEGRALLY CAST. CONCRETE SHALL BE MIN. 28 DAY COMPRESSIVE STRENGTH 4000psi.
 - MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
 - THE SUBGRADE UNDER THE BASE SHALL BE COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM D-1557.
 - MANHOLES BELOW GROUNDWATER TO BE EXTERNALLY AND INTERNALLY COATED WITH BITUMINOUS COATING.
 - CONCRETE SHALL BE MIN. 28 DAY COMPRESSIVE STRENGTH 4000psi.
 - OTHER UTILITIES SHALL NOT BE INSTALLED ADJACENT TO THE CONE SECTION AND DIRECTLY ABOVE THE MANHOLE.

- CONSTRUCTION KEY NOTES:**
- MANHOLE RING AND COVER (SEE DETAILS 377 & 378). SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 185).
 - ALL JOINTS TO BE TONGUE, GROOVE AND SEALED WITH RAM-NEK OR APPROVED EQUAL.
 - PIPE OPENINGS/KNOCKOUTS AS REQUIRED TO FIT PIPE SIZE AND SHALL HAVE FLEXIBLE PIPE TO MANHOLE CONNECTORS (COMPRESSION TYPE ASTM-923), "KOR-N-SEAL" OR APPROVED EQUAL. D. GROUT AS REQUIRED.
 - ECCENTRIC/CONCENTRIC LID (CONCENTRIC SHOWN BOLD) WITH KEYS TOP, 8" THICK (SEE DETAIL 379-2).
 - MINIMUM 24" DISTANCE FROM BOTTOM OF LID TO TOP OF PIPE FOR DROP CONNECTION.



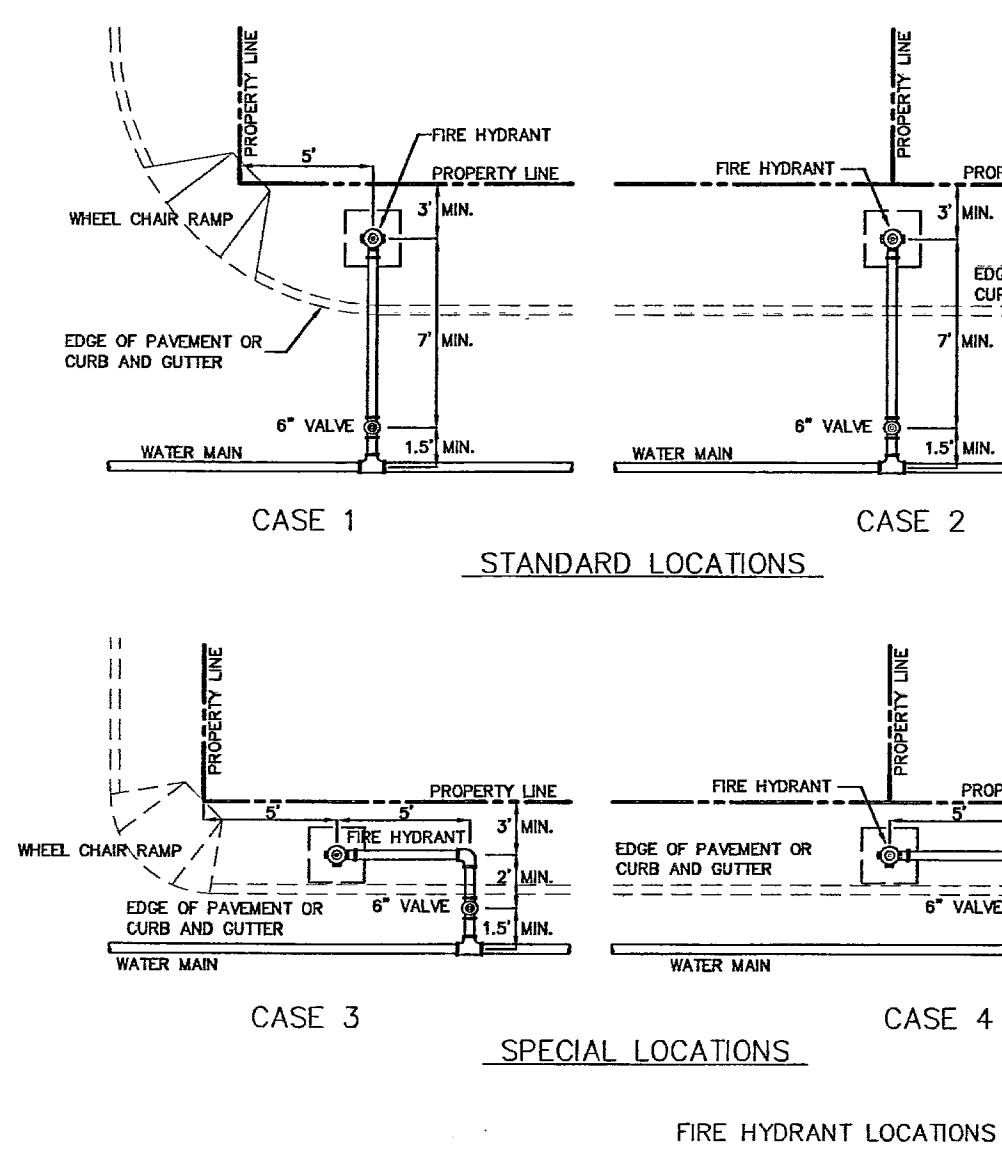
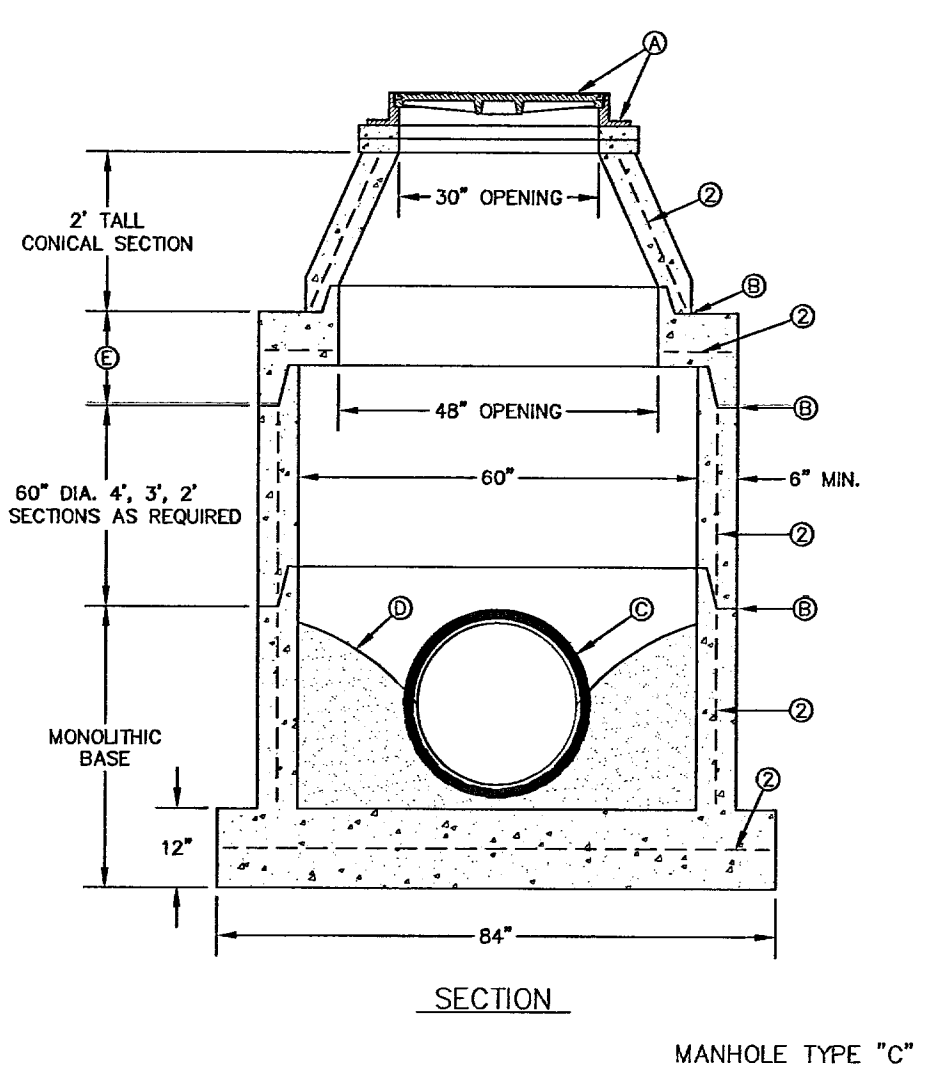
- GENERAL NOTES:**
- MANHOLE TYPE "B1" SHALL BE USED FOR LINES 24" AND LARGER AND SPECIAL LOADING CONDITIONS.
 - PRE-CAST MANHOLE SECTIONS SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478 AND SHALL MEET HS-20 LOADING. PROVIDE REINFORCEMENT WITHIN 3" OF OPENINGS OR KNOCKOUTS, OPENINGS (UP TO 8") MADE IN FIELD SHALL BE CORE DRILLED.
 - CEMENT SHALL BE TYPE I-II, PER ASTM C-150, AND MUST CONTAIN A MINIMUM OF 4% FLY ASH OF THE TOTAL MANHOLE WEIGHT.
 - THE BASE & RISER SHALL BE INTEGRALLY CAST. CONCRETE SHALL BE MIN. 28 DAY COMPRESSIVE STRENGTH 4000psi.
 - MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
 - THE SUBGRADE UNDER THE BASE SHALL BE COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM D-1557.
 - MANHOLES BELOW GROUNDWATER TO BE EXTERNALLY AND INTERNALLY COATED WITH BITUMINOUS COATING.

- CONSTRUCTION KEY NOTES:**
- MANHOLE RING AND COVER (SEE DETAILS 377 & 378). SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 185).
 - ALL JOINTS TO BE TONGUE, GROOVE AND SEALED WITH RAM-NEK OR APPROVED EQUAL.
 - PIPE OPENINGS/KNOCKOUTS AS REQUIRED TO FIT PIPE SIZE AND SHALL HAVE FLEXIBLE PIPE TO MANHOLE CONNECTORS (COMPRESSION TYPE ASTM-923), "KOR-N-SEAL" OR APPROVED EQUAL. D. GROUT AS REQUIRED.
 - ECCENTRIC/CONCENTRIC LID (ECCENTRIC SHOWN BOLD) WITH KEYS TOP, 8" THICK (SEE DETAIL 379-1).



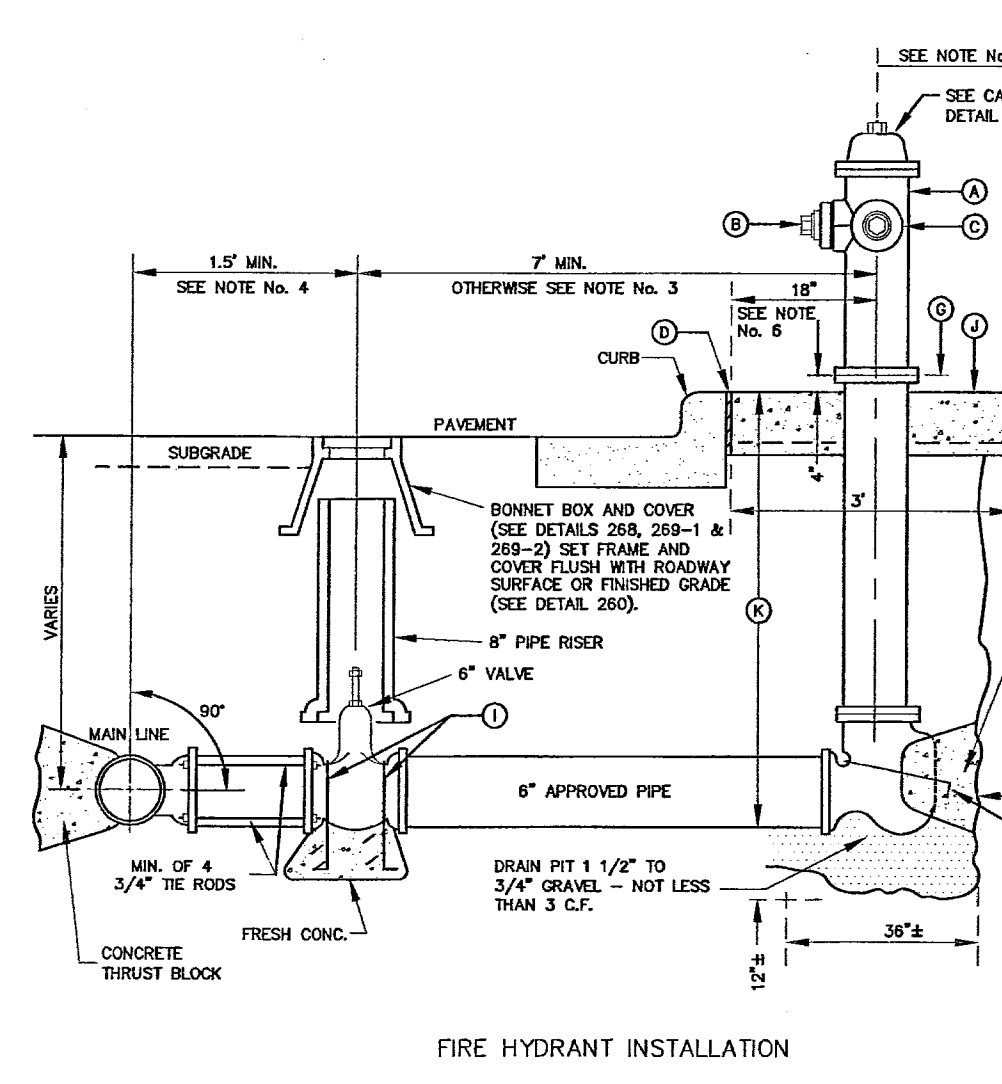
- GENERAL NOTES:**
- MANHOLE TYPE "C" SHALL BE USED FOR LINES 24" AND LARGER WITHIN 1500' ROW. TYPE "C" SHALL BE LARGEST ALLOWABLE MANHOLE SIZE WITHIN 1500' ROW.
 - PRE-CAST MANHOLE SECTIONS SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478 AND SHALL MEET HS-20 LOADING. PROVIDE REINFORCEMENT WITHIN 3" OF OPENINGS OR KNOCKOUTS, OPENINGS (UP TO 8") MADE IN FIELD SHALL BE CORE DRILLED.
 - CEMENT SHALL BE TYPE I-II, PER ASTM C-150, AND MUST CONTAIN A MINIMUM OF 4% FLY ASH OF THE TOTAL MANHOLE WEIGHT.
 - THE BASE & RISER SHALL BE INTEGRALLY CAST. CONCRETE SHALL BE MIN. 28 DAY COMPRESSIVE STRENGTH 4000psi.
 - MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
 - THE SUBGRADE UNDER THE BASE SHALL BE COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM D-1557.
 - MANHOLES BELOW GROUNDWATER TO BE EXTERNALLY AND INTERNALLY COATED WITH BITUMINOUS COATING.
 - DEPTHS OVER 14' SHALL HAVE STRENGTHENED WALLS (REFER TO CONTRACT DRAWINGS OR SPECIFICATIONS).

- CONSTRUCTION KEY NOTES:**
- MANHOLE RING AND COVER (SEE DETAILS 377 & 378). SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 185).
 - ALL JOINTS TO BE TONGUE, GROOVE AND SEALED WITH RAM-NEK OR APPROVED EQUAL.
 - PIPE OPENINGS/KNOCKOUTS AS REQUIRED TO FIT PIPE SIZE AND SHALL HAVE FLEXIBLE PIPE TO MANHOLE CONNECTORS (COMPRESSION TYPE ASTM-923), "KOR-N-SEAL" OR APPROVED EQUAL. D. GROUT AS REQUIRED.
 - ECCENTRIC LID WITH KEYS TOP, 8" THICK (SEE DETAIL 379-2).



- GENERAL NOTES:**
- FOR CASE 1 FIRE HYDRANT SHALL BE LOCATED AT A DISTANCE OF 5 FT. MINIMUM FROM THE PROPERTY LINE OR AT THE BEGINNING OF CURB RETURN.
 - FOR CASE 2 FIRE HYDRANT SHALL BE LOCATED AT THE PROPERTY LINE COMMON TO ADJOINING LOTS.
 - FOR CASE 3 AND 4 WHERE THE DISTANCE BETWEEN THE VALVE AND THE HYDRANT IS LESS THAN 7 FT., PLACE HYDRANT AS SHOWN.
 - INSTALLATION OF FIRE HYDRANT SEE DETAIL 280-1 OR 280-2.
 - A MINIMUM CLEARANCE OF 3 FT. WILL BE PROVIDED BETWEEN A FIRE HYDRANT AND A PERMANENT OBSTRUCTION (UTILITY POLE, LIGHT STANDARDS, TRAFFIC SIGNAL, WHEEL CHAIR RAMP, FENCE PROTECTIVE POSTS, ETC.).
 - WHEN INSTALLATION IS WITHIN 1500' RIGHT OF WAY, HYDRANT SHALL NOT BE PLACED IN SIDEWALK AREA OR ANY CLOSER THAN 5' FROM BACK OF CURB.

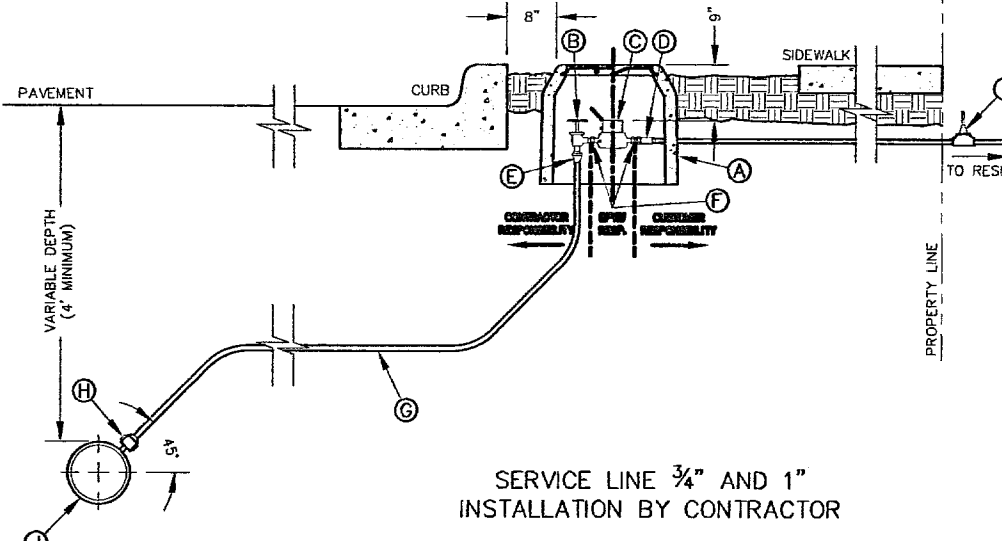
- GENERAL NOTES:**
- NO OBSTRUCTIONS WILL BE PERMITTED WITHIN 5 FT. IN ALL DIRECTIONS OF FIRE HYDRANT (PER EL PASO MUNICIPAL CODE, TITLE 12). FIRE HYDRANT SHALL NOT BE PLACED IN WHEEL CHAIR RAMP OR DRIVEWAY.
 - FIRE HYDRANT SHALL BE LOCATED AT THE BEGINNING OF CURB RETURN OR AT THE PROPERTY LINE COMMON TO ADJOINING LOTS, UNLESS OTHERWISE SHOWN ON PLANS. REFER TO DETAIL No. 282 FOR SPECIAL CASES.
 - WHERE DISTANCE IS LESS THAN 7', HYDRANT SHALL BE INSTALLED IN ACCORDANCE WITH DETAIL No. 282.
 - VALVE MAY BE CONNECTED TO TEE AT MAIN LINE. USE FLANGED MECHANICAL JOINT ENDS, WHERE SPOKE IS REQUIRED BETWEEN TEE AND VALVE, USE FLANGED MECHANICAL ENDS WITH 3/4" DIAMETER TEE RODS.
 - COMPLY WITH REQUIREMENTS OF AWWA C-502, DRY BARREL FIRE HYDRANTS AND AWWA C-550, PROTECTIVE EPOXY INTERIOR COATINGS FOR VALVES AND HYDRANTS.
 - PROTECTION IS WITHIN 1500' RIGHT OF WAY, HYDRANT SHALL NOT BE PLACED IN SIDEWALK AREA OR ANY CLOSER THAN 5' FROM BACK OF CURB.



- CONSTRUCTION KEY NOTES:**
- FIRE HYDRANT PER SPECS.
 - PRIMER NOZZLE 4x2" TO BE FACING THE TRAVELED WAY, UNLESS OTHERWISE NOTED IN THE PLANS.
 - MOUSE NOZZLE 2x2".
 - PRE-WOLDED EXPANSION JOINT WITH 1" TOP FILLER.
 - 3"x3" CONC. SQ. PAD, TO BE CONSTRUCTED AROUND FIRE HYDRANT'S CENTER LINE WHEN NOT LOCATED WITHIN SIDEWALK OR CONC. AREA.
 - 6" O.C. 6" W/8.
 - CONTROLLED ELEVATION LINE, LEVEL IN ALL DIRECTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING TOP FLANGE OF THE HYDRANT TO CONTROLLED ELEVATION.
 - CONC. THRUST BLOCK, APPROX. 2'x2'x3' TO BE FOUNDED AGAINST UNDISTURBED EARTH, F.H. WEEP HOLE MUST BE UNOBSTRUCTED.
 - 2"x1/4" STEEL ANCHOR PINS.
 - TOP OF SLAB SHALL BE AT CURB LEVEL 4" BELOW THE BREAK LINE OF THE HYDRANT, UNDER SPECIAL CONDITIONS THE ENGINEER MAY ALLOW VARIATIONS TO THIS CONSTRUCTION.
 - CONTRACTOR IS TO PROVIDE ADDITIONAL SPOOLS IF NEEDED TO MAINTAIN THE 4" MIN. CLEARANCE FROM THE CONTROLLED ELEV. LINE TO TOP OF SLAB.

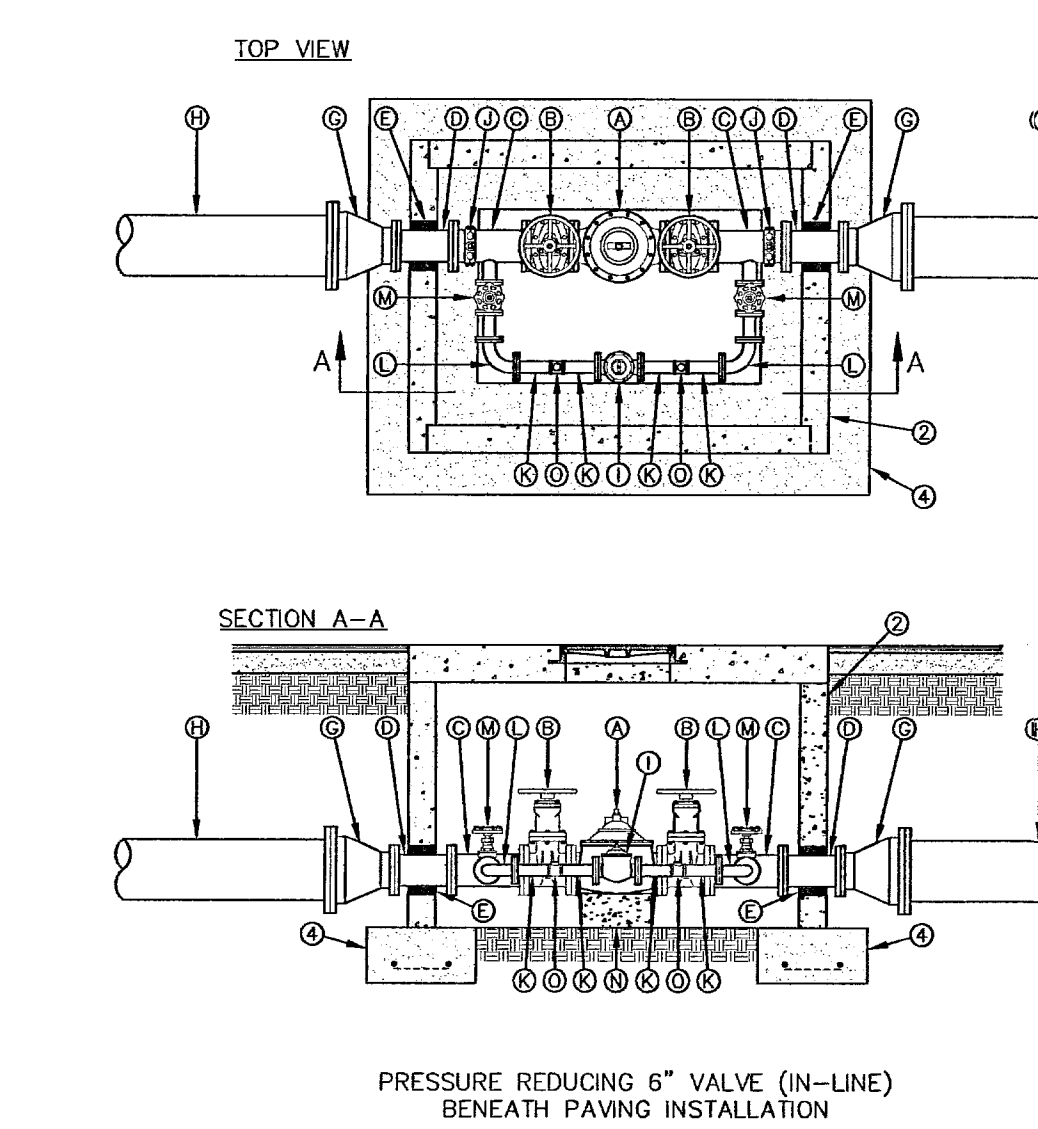
- GENERAL NOTES:**
- DETAIL SHOWN FOR A 3/4" SERVICE, 1" SERVICE INSTALLATION IS SIMILAR EXCEPT FOR SIZES OF PIPE, FITTING, METER AND BOX (TYPE "B").
 - WHERE NO CURB EXISTS, METER IS TO BE SET NEAR PROPERTY LINE OR AT DESIGNATED LOCATION.
 - THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY PIPE, FITTINGS, AND METER BOXES REQUIRED. IT SHALL BE THE RESPONSIBILITY OF THE PRIVATE OWNER TO HAVE A CERTIFIED PLUMBER INSTALL A BACKFLOW PREVENTER AND EXTEND SERVICE LINE ON DISCHARGE SIDE OF METER.
 - NO SPLICING SHALL BE ALLOWED. FULL LENGTH OF PIPING SERVICE SHALL BE INSTALLED.
 - THE EPWU WILL FURNISH AND INSTALL THE METER.

- CONSTRUCTION KEY NOTES:**
- METER BOX TYPE "A" (SEE DETAILS 300 & 301) SHALL BE SET SLIGHTLY HIGHER THAN SURROUNDING GROUND OR AT CURB LEVEL.
 - 3/4" ANGLE SERVICE VALVE.
 - WATER METER (CENTER INSIDE METER BOX).
 - WHEN REQUIRED BY EPWU, A DUAL CHECK BACKFLOW PREVENTER SHALL BE INSTALLED ON THE OUTLET SIDE OF THE METER.
 - END FLARE OF SERVICE LINE.
 - INLET AND OUTLET COUPLING.
 - 3/4" COPPER SERVICE LINE (SEE NOTE 4).
 - 5/8" x 3/4" CORPORATION STOP.
 - PRESSURE REGULATOR SOMETIMES LOCATED NEAR THE RESIDENCE.
 - WATER MAIN.



- GENERAL NOTES:**
- INSTALLATION SHALL GENERALLY BE FOR A MAIN LINE 12" AND SMALLER. INSTALLATION OF OTHER SIZED VALVES IS SIMILAR.
 - VALVE VAULT SHALL BE TYPE "F", SEE DETAIL 285-2. FOR PRESSURE REDUCING VALVES LARGER THAN 6", VAULT SIZE SHALL BE INCREASED TO ACCOMMODATE LARGER APPURTENANCES. LARGER VAULT DIMENSIONS MUST BE APPROVED BY THE EPWU.
 - PRESSURE RELIEF VALVE MAY BE LOCATED EITHER UPSTREAM OR DOWNSTREAM OF PRESSURE REDUCING VALVE DEPENDING ON A SUITABLE DISCHARGE LOCATION. WHEN RELIEF VALVE IS LOCATED DOWNSTREAM REDUCING VALVE SHALL BE EQUIPPED WITH A PRESSURE RELIEF PILOT AS NOTED IN A AND N. RELIEF VALVE SIZE IS GENERALLY ONE OR TWO SIZES SMALLER THAN THE SIZE OF THE MAINLINE. SEE EPWU STANDARD DETAILS 265-1 THROUGH 265-8 FOR INSTALLATION.
 - 12"x24" FOOTING WITH No.5 REBAR AT 12" ON CENTER EACH WAY IS REQUIRED.
 - TEST OUTLETS TO BE PLACED BEFORE AND AFTER PRESSURE REDUCERS. SEE DETAIL 264-5 FOR TEST OUTLET DETAIL.

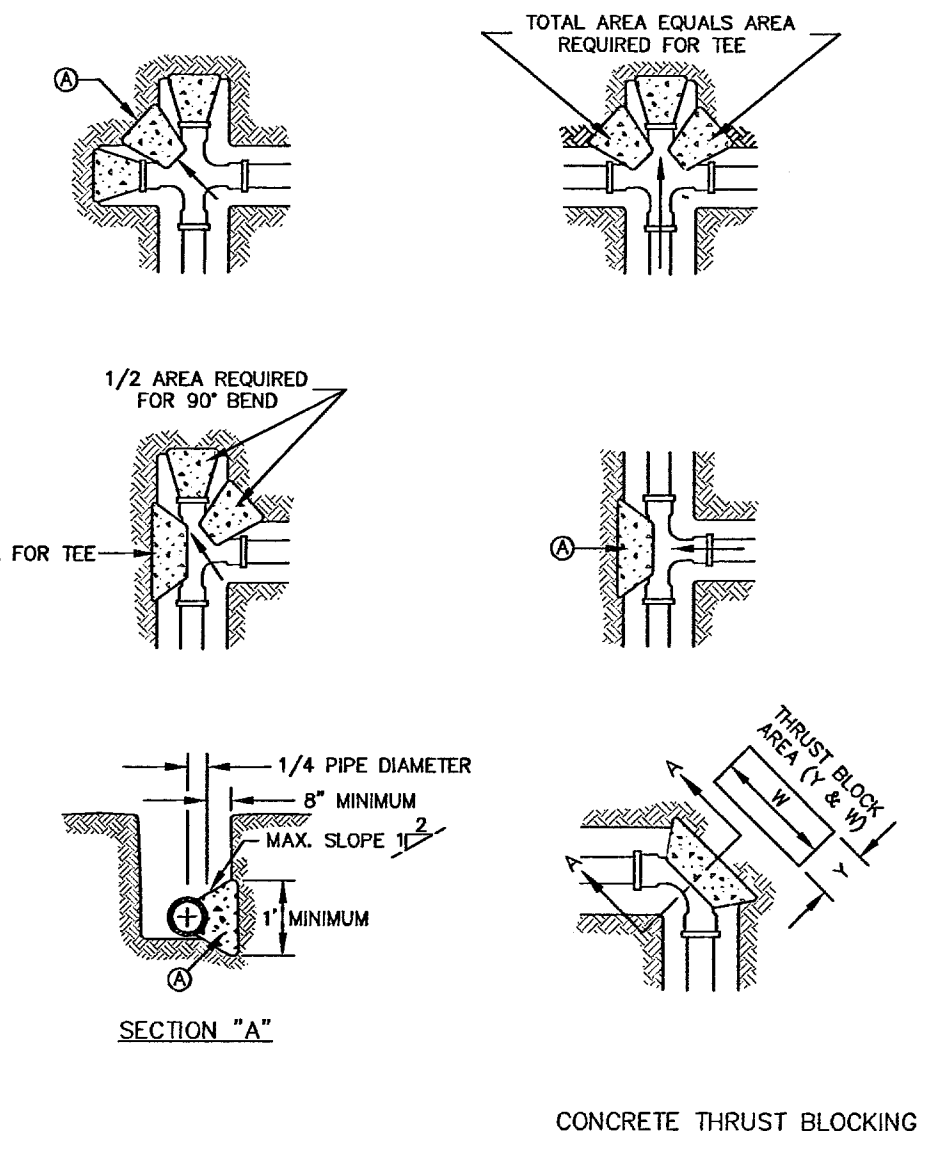
- CONSTRUCTION KEY NOTES:**
- 6" FLANGED PRESSURE REDUCING VALVE, WITH SURGE RELIEF PILOT, FOR HIGH FLOWS.
 - 6" FLANGED GATE VALVE WITH HANDWHEEL.
 - 6"x2" FLANGED TEE.
 - 6" DUCTILE IRON FLANGED SPOOL.
 - 6" WALL SLEEVES AND/OR GROUT.
 - FLANGED REDUCER (6" X MAINLINE SIZE AS SPECIFIED).
 - MAINLINE, SIZE AS SPECIFIED.
 - 2" FLANGED PRESSURE REDUCING VALVE, WITH SURGE RELIEF PILOT, FOR LOW FLOW.
 - 6"x3/4" TAPPING SADDLE & 3/4" TEST OUTLET WITH CORPORATION STOP.
 - 2" FLANGED BRASS OR DUCTILE IRON SPOOL.
 - 2" FLANGED 90° BEND.
 - 2" GATE VALVE WITH HANDWHEEL.
 - VALVES INSTALLED ON NATURAL GROUND WITH CONCRETE SUPPORTS AS REQUIRED.
 - 2"x1" BRONZE TEE WITH 1" TO 3/4" ADAPTER & 3/4" TEST OUTLET WITH CORPORATION STOP.



- GENERAL NOTES:**
- TABLE IS BASED ON 2000#/SQ. FT. SOIL. IF CONDITIONS ARE FOUND TO INDICATE SOIL BEARING IS LESS, THE AREAS SHALL BE INCREASED ACCORDINGLY.
 - AREAS FOR PIPE LARGER THAN 18" SHALL BE CALCULATED.
 - CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
 - THRUST BLOCK TO EXTEND TO UNDISTURBED SOIL.
 - SIZE MAY BE DECREASED FOR LESSER DEGREE BENDS AS DETERMINED BY ENGINEER.
 - KEEP CONCRETE CLEAR OF M.J. OR BELL AND SPOUT JOINTS.
 - BLOCK IN A SIMILAR MANNER AT TEES, HYDRANTS, PLUG OR OTHER LOCATIONS AS REQUIRED.
 - WHEN NECESSARY ADDITIONAL THRUST RESTRAINT METHODS MAY BE USED, SUCH AS MECHANICAL JOINT RESTRAINTS, TEE-RODS (INSTALLED PER MANUFACTURERS' RECOMMENDATIONS) OR OTHER APPROVED METHODS.

- CONSTRUCTION KEY NOTES:**
- LENGTH "Y" & "W" AS REQUIRED TO OBTAIN BEARING AREA AGAINST UNDISTURBED SOIL.
 - ADDITIONAL EXCAVATION IF NECESSARY TO OBTAIN REQUIRED BEARING AREA.
 - MINIMUM THRUST BLOCK AREA REQUIREMENTS FOR (Y & W) AS FOLLOWS:

PIPE SIZE	WATER PIPE	
	TEE, DEAD END	45° AND 90° BEND
4" & LESS	3 SQ. FEET	22 1/2' BENDS
6"	4 SQ. FEET	3 SQ. FEET
8"	5 SQ. FEET	3 SQ. FEET
10"	9 SQ. FEET	5 SQ. FEET
12"	13 SQ. FEET	7 SQ. FEET
16"	23 SQ. FEET	12 SQ. FEET
18"	29 SQ. FEET	15 SQ. FEET



103169

REVISIONS
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△ 05-05-10
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PROJECT ARCHITECT:	PROJECT NUMBER:	DRAWING BY:	DATE:	FILE:
			10-17-09	

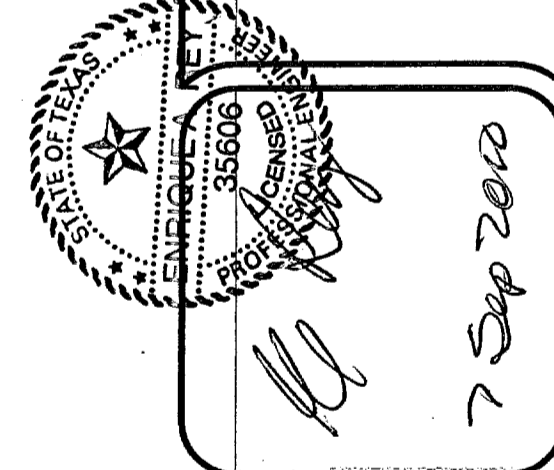
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PROJECT NAME

DIANJOU PLACE IMPROVEMENTS

DIANJOU DRIVE EL PASO, TEXAS



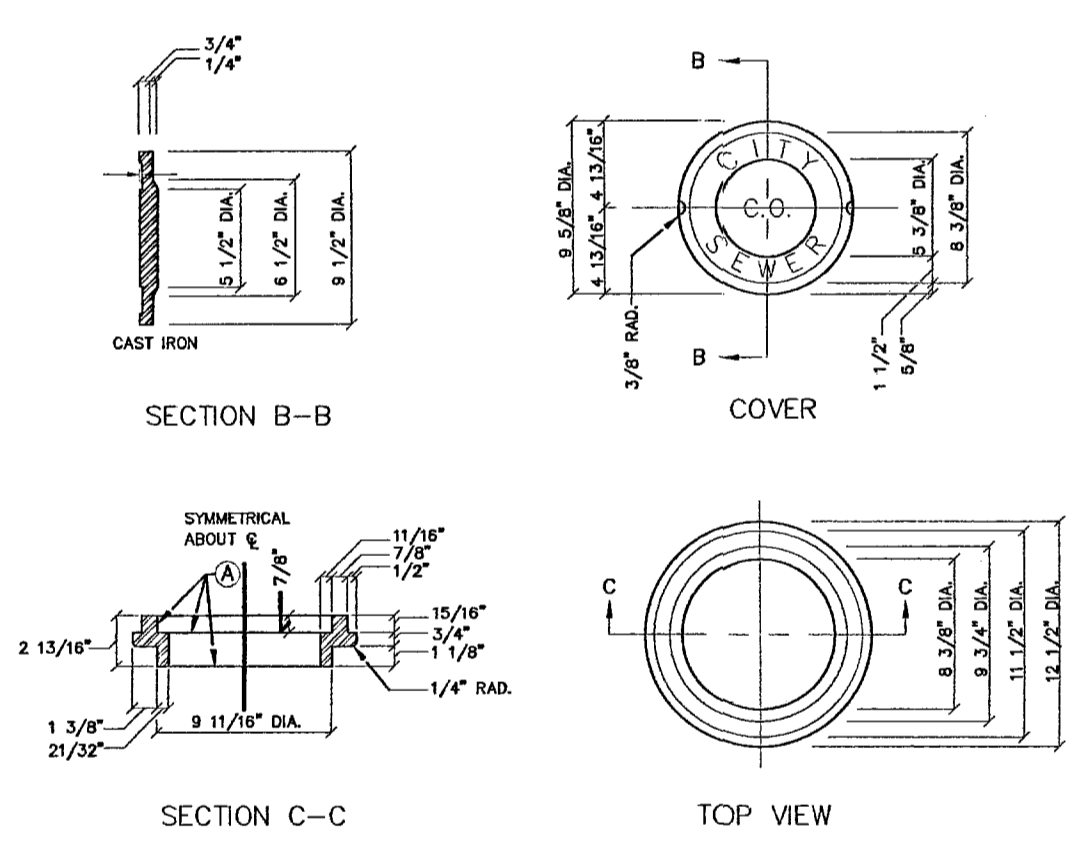
REY ENGINEERING
CONSULTING ENGINEERS, SURVEYORS AND PLANNING
10318 BOB NITCHFIELD BLVD., EL PASO, TEXAS 79926
(915) 555-8807

SHEET TITLE

PROPOSED POTABLE WATER + SANITARY SEWER PLAN + DETAILS

C-9

SHT. 12 OF 14



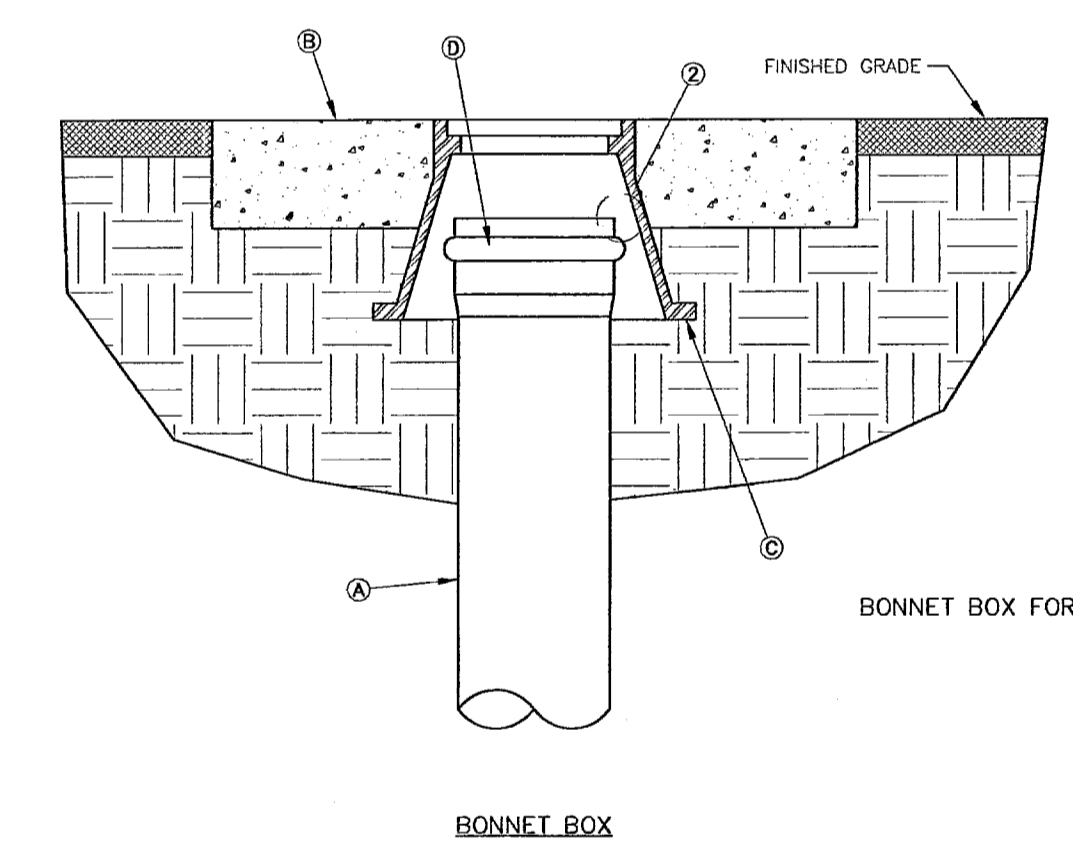
GENERAL NOTES:

- CASTINGS TO BE SMOOTH AND VOID OF AIR HOLES.
- WEIGHT OF BONNET BOX EXTENSION IS 25 POUNDS.
- WEIGHT OF COVER IS 10 POUNDS.

CONSTRUCTION KEY NOTES:

A. TO BE ROUGH GROUND OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.

BONNET BOX COVER AND EXTENSION FOR CLEANOUT



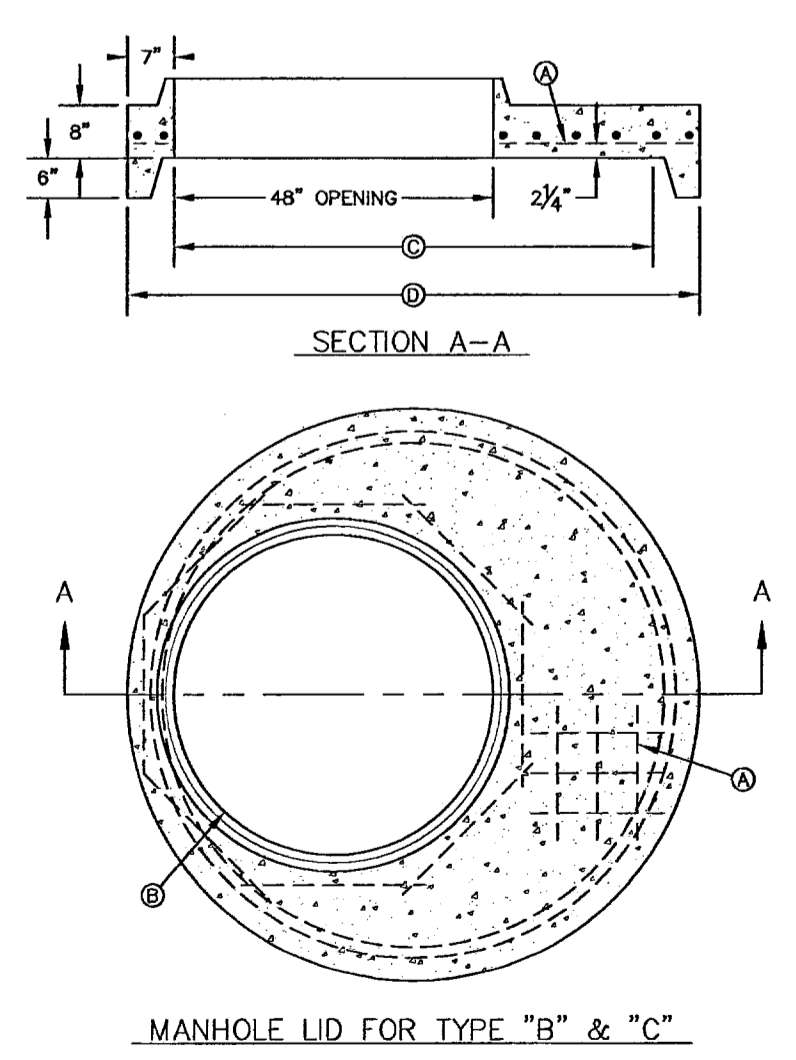
GENERAL NOTES:

- FOR BONNET BOX DIMENSIONS SEE DET 268.
- PIPE BELL END TO FIT SNUGLY AGAINST INTERIOR OF BONNET BOX.

CONSTRUCTION KEY NOTES:

A. 8\" P.V.C. SDR 35
B. 3'x3'x6\" CONCRETE COLLAR
C. BONNET BOX
D. 8\" BELL END

BONNET BOX FOR CLEANOUT



GENERAL NOTES:

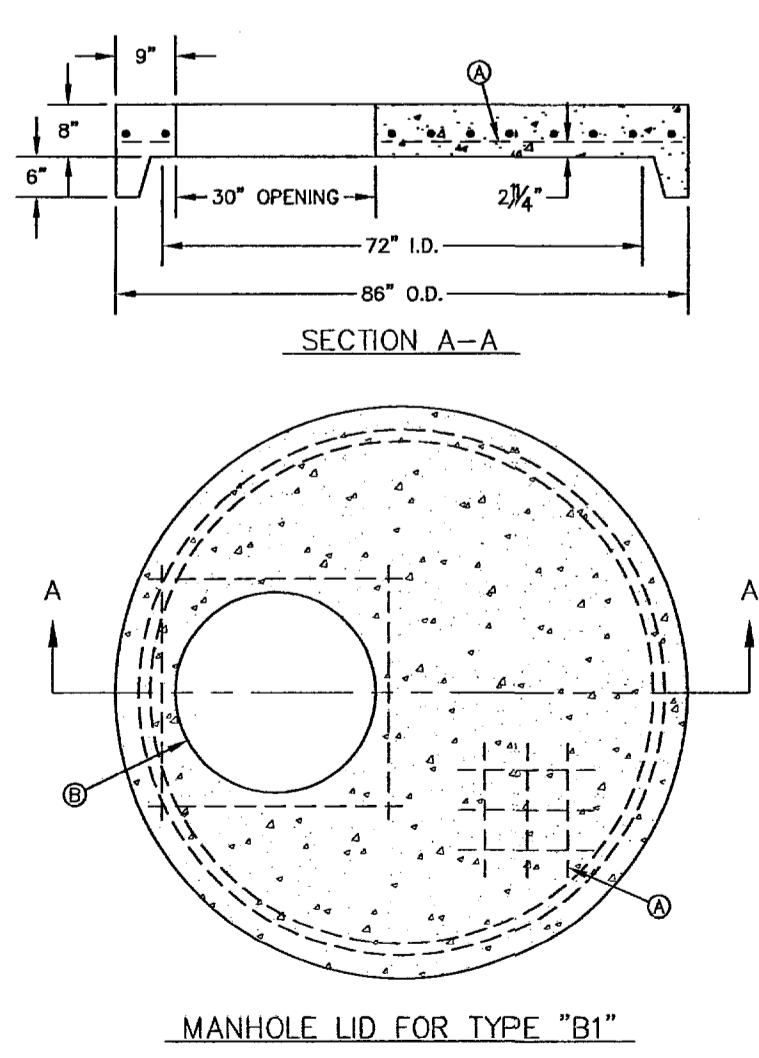
- FLAT TOP MANHOLE LID WITH KEYS TOP SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478. CEMENT SHALL BE TYPE I-III, PER ASTM C-150, AND MUST CONTAIN A MINIMUM OF 4% FLY ASH OF THE TOTAL LID WEIGHT.
- CONCRETE SHALL BE MIN. 28 DAY COMPRESSIVE STRENGTH 4000psi.
- MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
- REINFORCING SHALL MEET A.S.T.M. C478-87 AND TRAFFIC LOADING (HS-20).

CONSTRUCTION KEY NOTES:

A. #5 REBAR 8\" O.C./E.W.
B. 48\" OPENING, OPTIONAL PLACEMENT OF OPENING MAY BE ECCENTRIC (SHOWN) OR CONCENTRIC.

MANHOLE LID	MANHOLE TYPE "B"	MANHOLE TYPE "C"
C	72\" I.D.	60\" I.D.
D	86\" O.D.	72\" O.D.

MANHOLE ECCENTRIC/CENTRIC CONCRETE LID FOR TYPE "B" & "C" MANHOLES



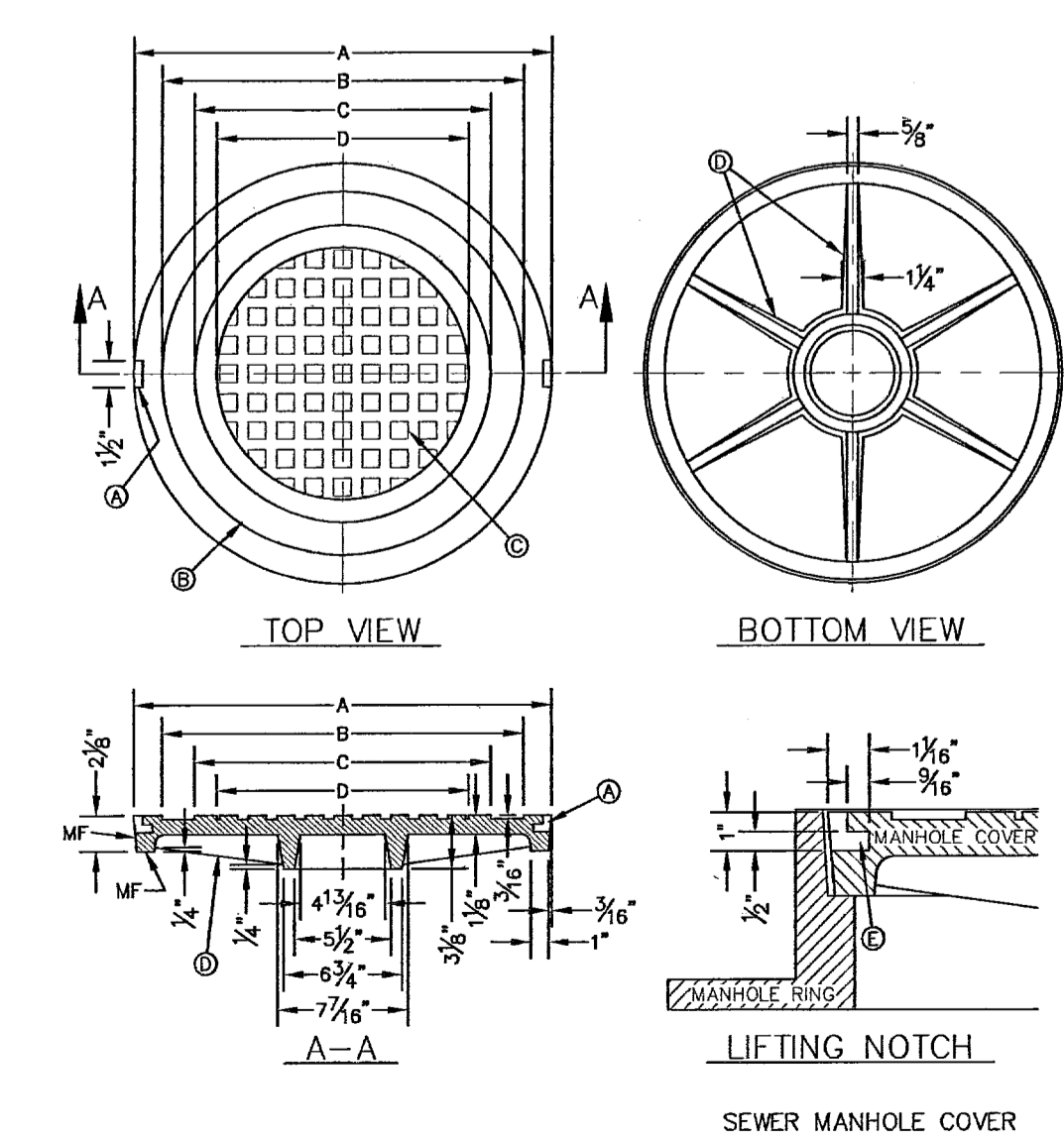
GENERAL NOTES:

- FLAT TOP MANHOLE LID SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478. CEMENT SHALL BE TYPE I-III, PER ASTM C-150, AND MUST CONTAIN A MINIMUM OF 4% FLY ASH OF THE TOTAL LID WEIGHT.
- CONCRETE SHALL BE MIN. 28 DAY COMPRESSIVE STRENGTH 4000psi.
- MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
- REINFORCING SHALL MEET A.S.T.M. C478-87 AND TRAFFIC LOADING (HS-20).
- RING & COVER OR SPECIAL LIDS TO MEET REQUIREMENTS, MAY BE CAST IN PLACE.

CONSTRUCTION KEY NOTES:

A. #5 REBAR 8\" O.C./E.W.
B. 30\" OPENING, SIZE TO ACCOMMODATE MANHOLE RING (SEE DETAIL 377). OPTIONAL PLACEMENT OF OPENING MAY BE ECCENTRIC (SHOWN) OR CONCENTRIC.

MANHOLE ECCENTRIC/CENTRIC CONCRETE LID FOR TYPE "B1" MANHOLE



GENERAL NOTES:

- MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
- CASTING TO BE SMOOTH & VOID OF AIR HOLES.
- CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
- AS-CAST DIMENSIONS MAY VARY 1/8\" PER FOOT (AASHTO M306-07).
- WEIGHT MAY VARY 5% (AASHTO M306-07).

CONSTRUCTION KEY NOTES:

A. LIFTING NOTCH.
B. 1/4\" RISED LETTERING.
C. 1\" SQUARES (1/4\" TALL) WITH 1/2\" SPACE BETWEEN.
D. REINFORCING RBBS.
E. SLOT.

MANHOLE COVER	MANHOLE - ALL TYPES	*MANHOLE TYPE A, A1, A2 & C
A	31 3/4"	23 3/4"
B	28 3/4"	20 3/4"
C	24 3/4"	16 3/4"
D	21 3/4"	14 3/4"
WEIGHT	265 lbs.	165 lbs.

*OBSOLETE - DO NOT USE (FOR REFERENCE ONLY)

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SPECIFICATIONS FOR ALUMINUM SIGN BLANKS

THESE SPECIFICATIONS DESCRIBE DETAILS AND MINIMUM REQUIREMENTS FOR ALUMINUM SIGN BLANKS, TO WHICH REFLECTIVE SHEETING WILL BE APPLIED.

1. ALL MATERIALS SHALL BE NEW AND UNWEATHERED AND SHALL BE OF DOMESTIC ORIGIN, MILLLED, ROLLED, AND FINISHED IN DOMESTIC MILLS.

2. SIGN BLANKS SHALL BE 0.080 GAUGE ALODIZED-TREATED ALUMINUM, 5052-H38 ALLOY, FREE OF BURRS, CORROSION, WHITE RUST, AND DIRT, SUITABLE FOR APPLICATION OF REFLECTIVE SHEETING WITHOUT FURTHER PREPARATION.

3. EDGES OF BLANKS SHALL BE CUT TRUE AND SQUARE. CORNER RADII, HOLE DIAMETERS AND HOLE LOCATIONS SHALL BE AS DESCRIBED IN THE ALUMINUM SIGN BLANK BID D.P.T. STANDARDS.

4. ALL SIGN BLANKS WILL BE TREATED AS FOLLOWS:

A. DEGREASING

(1) VAPOR DEGREASING - BY TOTAL IMMERSION OF THE SIGN BLANK IN A SATURATED VAPOR OF TRICHOETHYLENE OR PERCHLOROETHYLENE. TRADEMARK PRINTING SHALL BE REMOVED WITH LACQUER THINNER, BEFORE DEGREASING.

OR

(2) ALKALINE DEGREASING - BY TOTAL IMMERSION OF THE SIGN BLANK IN A TANK CONTAINING ALKALINE SOLUTIONS, CONTROLLED AND TITRATED TO THE SOLUTION MANUFACTURER'S SPECIFICATIONS FOR TIME, TEMPERATURE, AND CONCENTRATION. IMMERSION TIME SHALL DEPEND UPON THE AMOUNT OF SOIL PRESENT, GAUGE OF THE METAL AND SOLUTION STRENGTH. RINSE THOROUGHLY WITH RUNNING WATER.

B. ETCHING

(1) ACID ETCH - ETCH WELL IN 6-8% PHOSPHORIC ACID SOLUTION AT 100 DEGREES FAHRENHEIT OR PROPRIETARY ACID ETCHING SOLUTION. RINSE THOROUGHLY WITH RUNNING WATER.

OR

(2) ALKALINE ETCH - ETCH WELL THE PRE-CLEANED ALUMINUM SURFACE IN AN ALKALINE ETCHING MATERIAL THAT IS CONTROLLED BY TITRATION. USE TIME, TEMPERATURE, AND CONCENTRATION SPECIFIED BY THE SOLUTION MANUFACTURER. RINSE THOROUGHLY. REMOVE SMUT WITH AN ACIDIC CHROMIUM COMPOUND-TYPE SOLUTION AS SPECIFIED BY THE SOLUTION MANUFACTURER AND THEN RINSE THOROUGHLY.

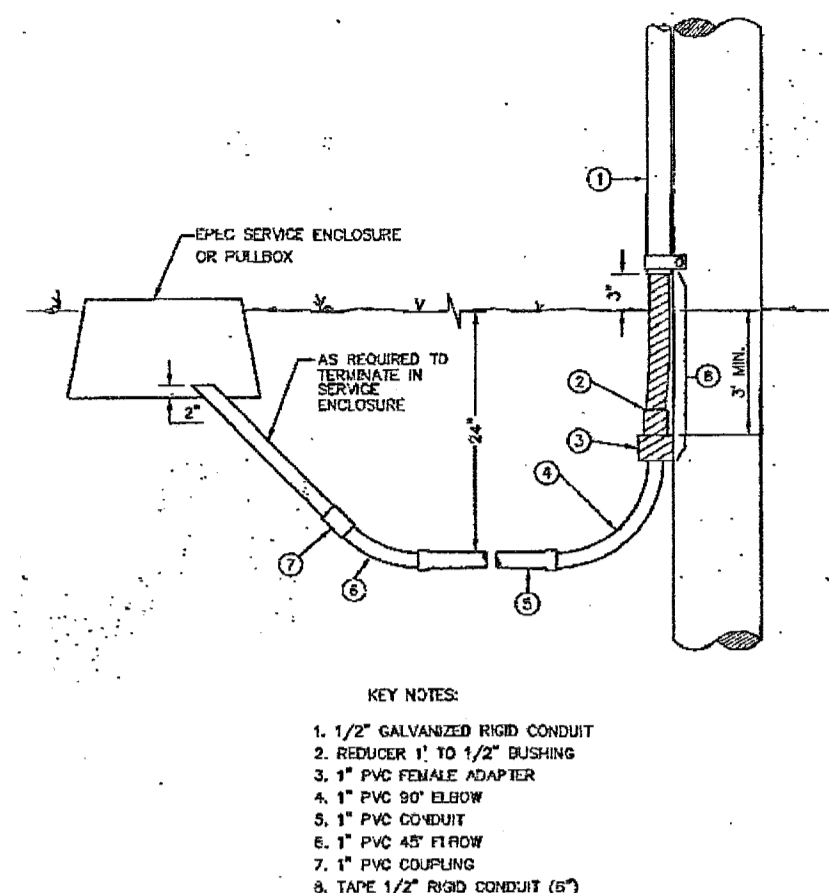
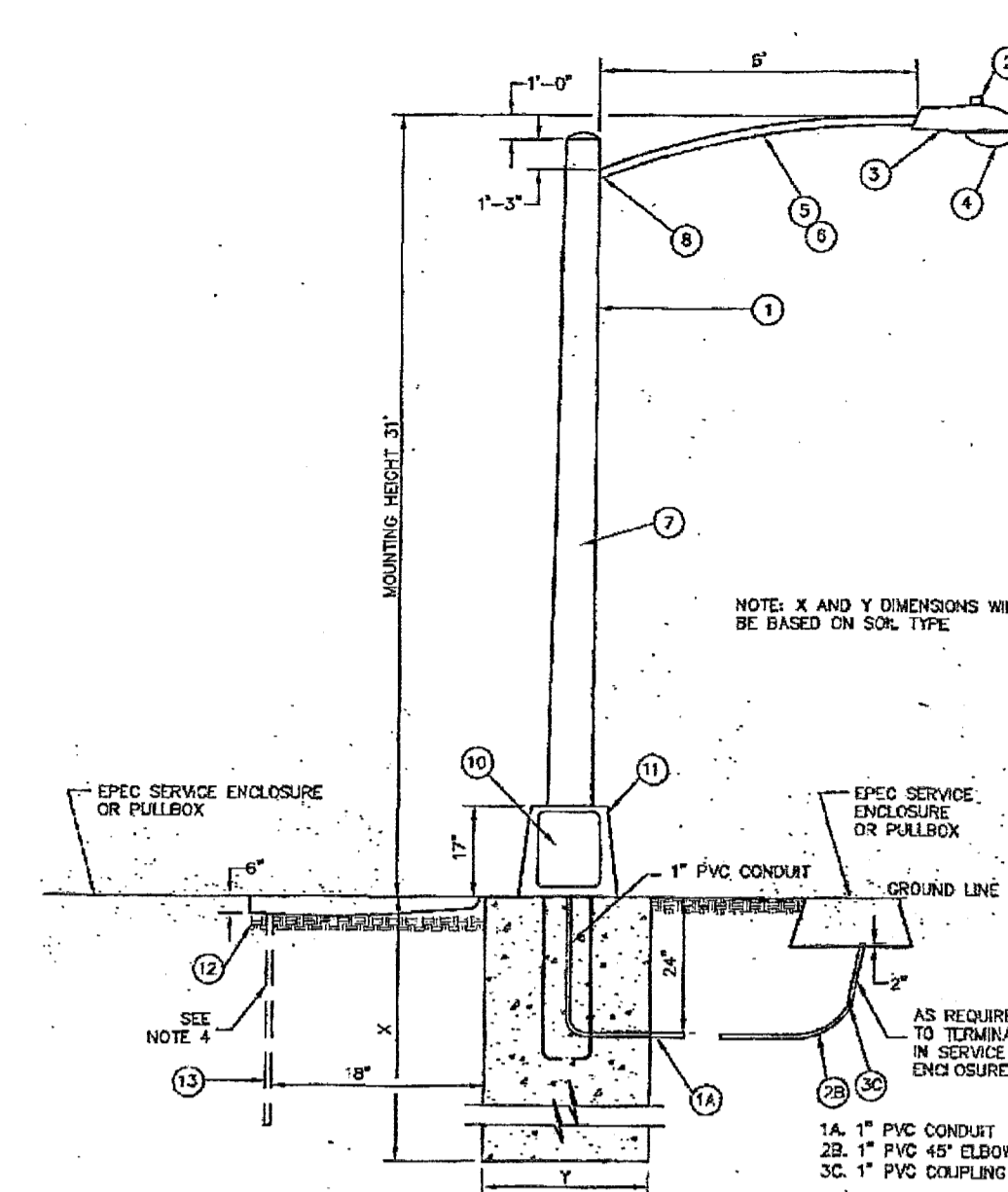
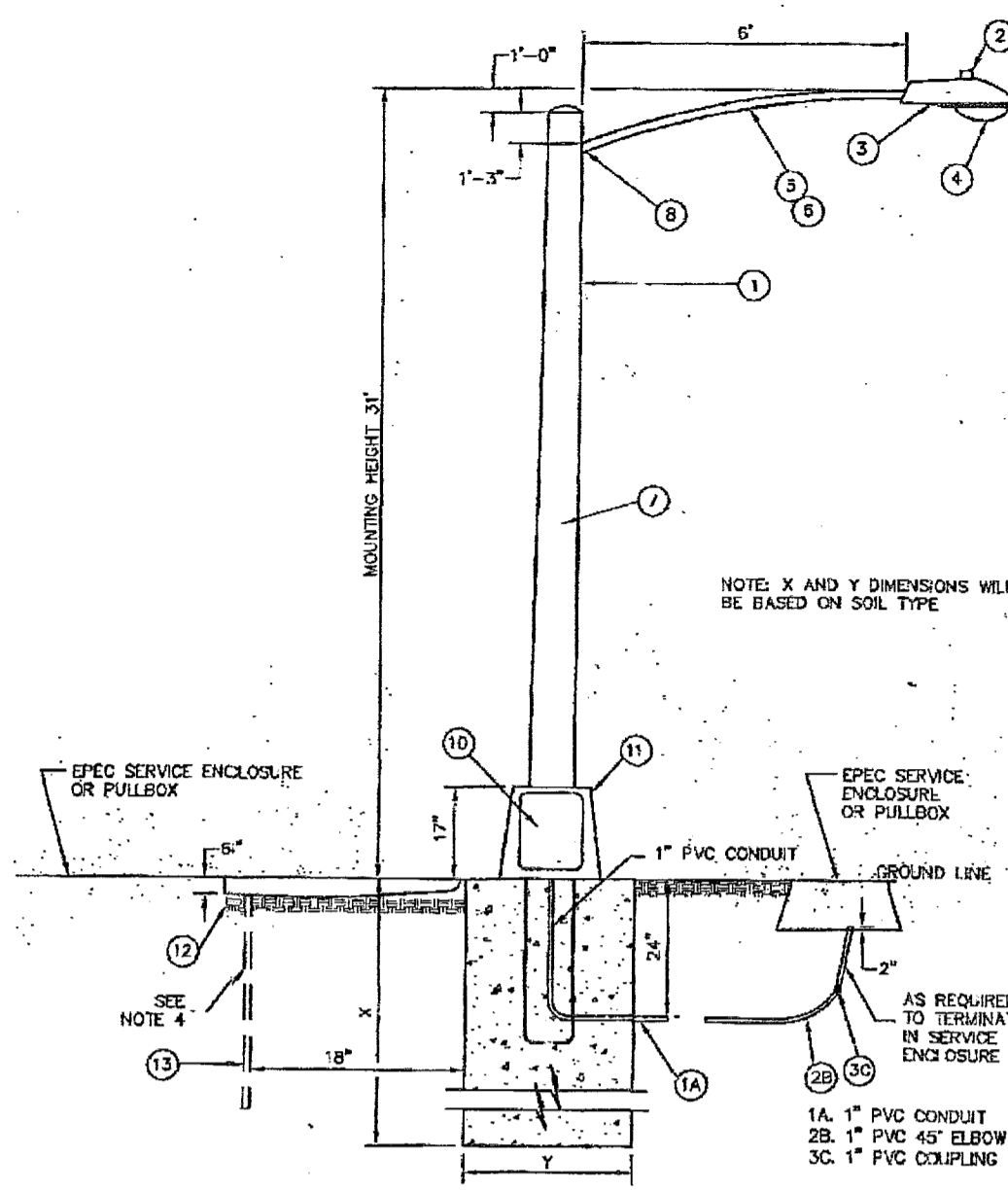
C. CHROMATE CONVERSION COATING

COAT THE ALUMINUM BLANKS ACCORDING TO THE CHROMATE CONVERSION COATING MANUFACTURER'S INSTRUCTIONS. THE COATING SHALL CONFORM TO ASTM B449, CLASS 2, AND SHALL RANGE IN COLOR FROM SILVERY IRIDESCENT TO PALE YELLOW. THE COATING WEIGHT SHALL BE 10 TO 35 MG. PER SQ. FT. WITH A MEDIAN OF 25 MG. PER SQ. FT. AS THE OPTIMUM COATING WEIGHT.

ITEM No.	DESCRIPTION	STOCK No.	QTY.
1	POLE, 35 FT.-CLASS IV	009-035	1
2	CALVATED ROD 1/2" CONDUIT	017-292	3
3	PVC STRAP FOR 1/2" CONDUIT, 2-HOLE	017-334	2
4	LAG BOLT, 1/2" x 2"	002-330	6
5	WEATHERHEAD, 1/2" CONDUIT	017-293	1
6	PHOTOCELL, 240V-SEE NOTE 1	021-225	1
7	LAG BOLT, 1/2" x 4"	002-370	2
8	MACHINE BOLT, 5/8" x 8"	002-450	1
9	SQUARE GALV. WASHER, 2-1/4"x1-1/4"	002-760	1
10	COR.-SPRING WASHER, 5/8"	002-758	1
11	LOOKOUT, 5/8"	002-759	1
12	LUMINAIRE, 100W H.P.S.	021-335	1
13	HPS LAMP, 100W	021-085	1
14	MAST ARM, 6" x 1-1/4"	015-202	1
15	MAST ARM, 6" x 1-1/4"	015-200	1
16	COPPER CABLE, #12, 18 STRAND, 500 V	015-665	1
17	COPPER CABLE, #12, SOLID, 600 V, GREEN	015-701	1
18	CABLE, #10, 2 CONDUCTOR, 600 V, UF	015-690	8
19	SLEEVES, #12	005-142	2
20	GROUNDING CLAMP	021-215	1

REVISIONS

1. MOUNT SO THAT CONTROL FACES NORTH.
 2. ITEM 17 SHALL NOT BE SPACED INSIDE ITEM 14.
- DESIGN NOTES**
1. INSTALLATION SHALL COMPLY WITH ALL LOCAL CODE REQUIREMENTS.
 2. FOR ANY CLARIFICATION, EXCEPTIONS OR QUESTIONS REGARDING CODE INTERPRETATION, CALL EL PASO ELECTRIC CO. DISTRIBUTION DEVELOPMENT DEPARTMENT.



- KEY NOTES:**
1. 1/2" GALVANIZED ROD CONDUIT
 2. RIGID 1" TO 1 1/2" BUSHING
 3. 1" PVC FEMALE ADAPTER
 4. 1" PVC 90° ELBOW
 5. 1" PVC COUPLER
 6. 1" PVC 45° ELBOW
 7. 1" PVC COUPLING
 8. 1" PVC 1/2" ROD CONDUIT (1')

DETAIL 1 SCALE: N.T.S.

DETAIL 2 SCALE: N.T.S.

DETAIL 3 SCALE: N.T.S.

DETAIL 4 SCALE: N.T.S.

DETAIL 5 SCALE: N.T.S.

DETAIL 6 SCALE: N.T.S.

ITEM No.	DESCRIPTION	STOCK No.	QTY.
1	POLE, 35 FT.-CLASS IV	009-035	1
2	PHOTOCELL, 240V-SEE NOTE 1	021-225	1
3	LUMINAIRE, 100W H.P.S.	021-335	1
4	HPS LAMP, 100W	021-085	1
5	MAST ARM, 6" x 1-1/4"	015-202	1
6	#12 SOLID CABLE 600 V	015-701	1
7	CABLE, #10, 2 CONDUCTOR, 600 V, UF	015-690	40' PLUS
8	SLEEVES, #12	005-145	AS REQ'D.
9	ROADWAY LUMINAIRE HPS 100 WATTS	21-340	1
10	BREAK-A-WAY FUSES 30 AMP.	21-250	2
11	ALUMINUM TRANSFORMER BASE	21-605	1
12	5/8" GROUND ROD CLAMP	07-561	1
13	5/8" x 10" CJ BENDED GROUND ROD	08-426	1

CITY OF EL PASO SPECIFICATIONS FOR REFLECTORIZED STREET NAME SIGNS

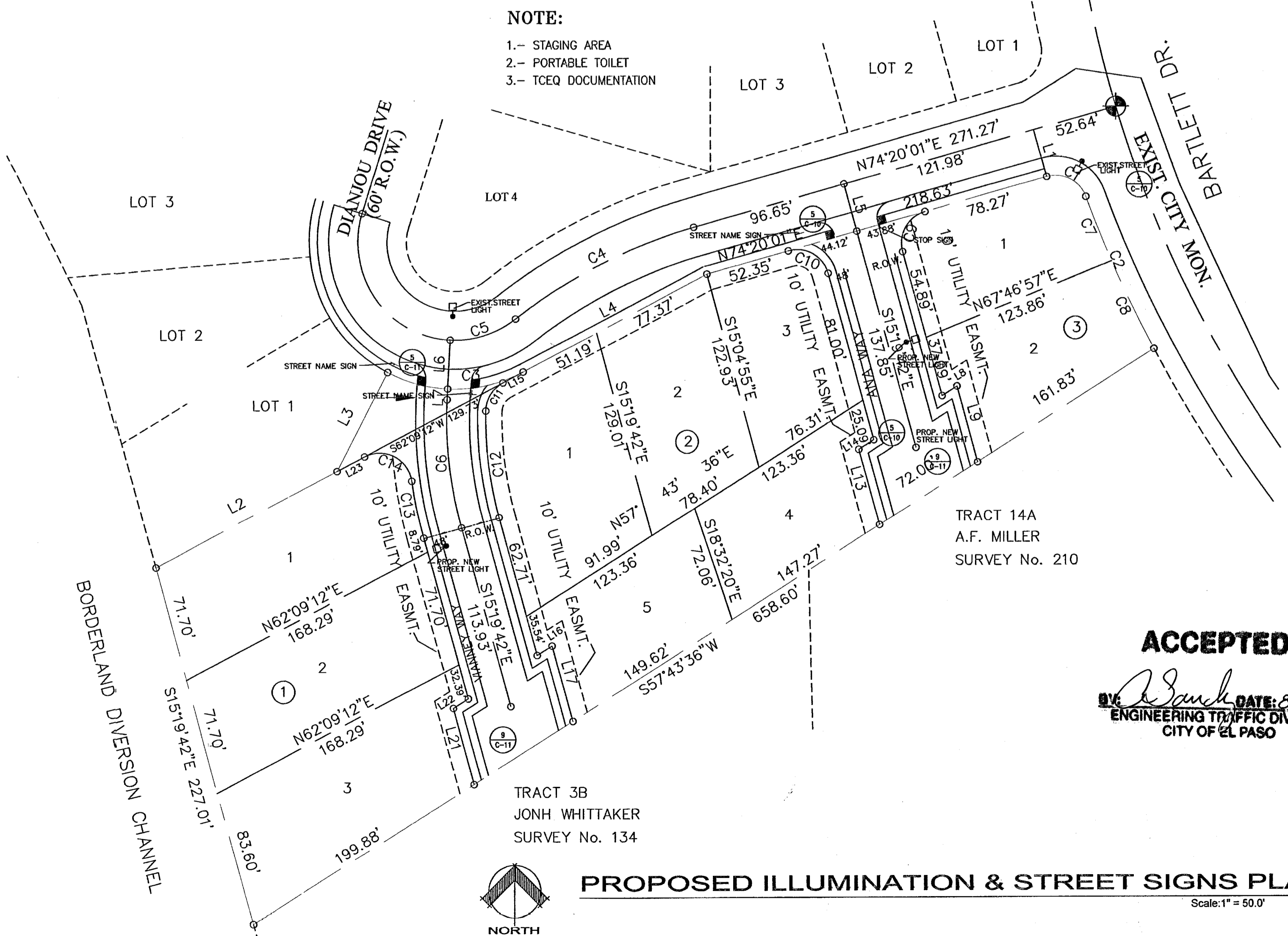
1. COLOR OF SIGNS: THE FINISHED SIGN MUST HAVE A REFLECTORIZED GREEN BACKGROUND. THE GREEN MUST CONFORM WITH THE BUREAU OF PUBLIC ROADS HIGHWAY GREEN. THE LEGEND MUST BE REFLECTORIZED SILVER WHITE (GREEN REVERSE SCREENED BACKGROUND WITH SILVER COPY).
2. LETTER DESIGN: THE LETTERING OF ALL SIGNS MUST BE LETTER CASE LETTERS IN ACCORDANCE WITH "STANDARD ALPHABETS FOR HIGHWAY SIGNS" PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION.
3. LETTER SPACING: THE CONTROL FOR THE SPACING VALUES IN TRAFFIC LAYOUT IS THE DISTANCE RECOGNIZED AS AESTHETIC SPACING BETWEEN TWO STRAIGHT LETTERS ONLY. A SPACING CONTROL OF TWO TIMES THE WIDTH OF THE STROKE OF THE LETTER SERIES TO BE USED MUST BE THE AESTHETIC CONTROL (100%). TWO AND ONE-HALF TIMES (150%) THIS CONTROL MUST BE USED AS THE AESTHETIC WORD SPACE BETWEEN ELEMENTS IN THE PRIMARY LEGEND.
4. LAYOUT: THE MAXIMUM NUMBER OF LETTERS TO BE ACCOMMODATED ON A GIVEN LENGTH STREET NAME FACE MUST BE DETERMINED BY THE WIDEST LETTER SERIES POSSIBLE FOR THAT LEGEND AND THE SPACING CONTROL (100%) FOR THE SERIES USED MUST BE EXPANDED OR CONDENSED UP TO 25% IN 5% INCREMENTS.
5. THE SPACING CONTROL (100%) FOR THE SERIES USED MUST BE EXPANDED OR CONDENSED UP TO 25% IN 5% INCREMENTS FOR THE END MARGIN WITH MINIMUM OF 1".
6. THE WORD SPACE MUST BE EXPANDED UP TO 25% IN 5% INCREMENTS BUT NOT CONDENSED.

REVISIONS

1. MOUNT SO THAT CONTROL FACES NORTH.
 2. ITEM 7 SHALL NOT BE SPACED INSIDE ITEM 5.
- DESIGN NOTES**
1. INSTALLATION SHALL COMPLY WITH ALL LOCAL CODE REQUIREMENTS.
 2. FOR ANY CLARIFICATION, EXCEPTIONS OR QUESTIONS REGARDING CODE INTERPRETATION, CALL EL PASO ELECTRIC CO. DISTRIBUTION DEVELOPMENT DEPARTMENT.
 3. A GROUND ROD MUST BE USED.

DETAIL 7 SCALE: N.T.S.

DETAIL 8 SCALE: N.T.S.



PROPOSED ILLUMINATION & STREET SIGNS PLAN

Scale: 1" = 50.0'

REVISIONS
△ 03-29-10
△ 05-05-10
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△
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△
△
△

PROJECT ARCHITECT:	PROJECT NUMBER:	DATE:	FILE:
		10-17-09	

OWNER: XXXXXX

PROJECT NAME: DIANJOU PLACE IMPROVEMENTS
EL PASO, TEXAS

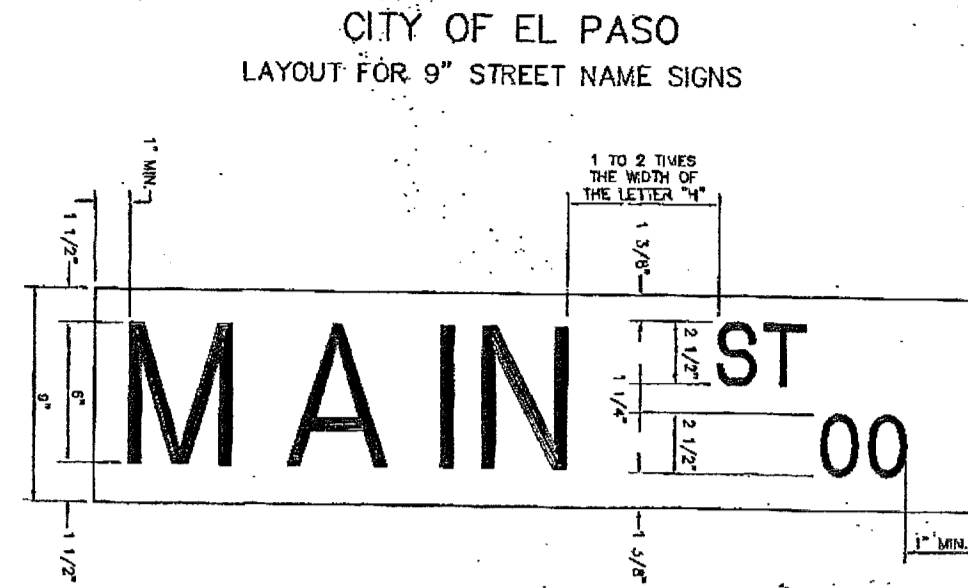
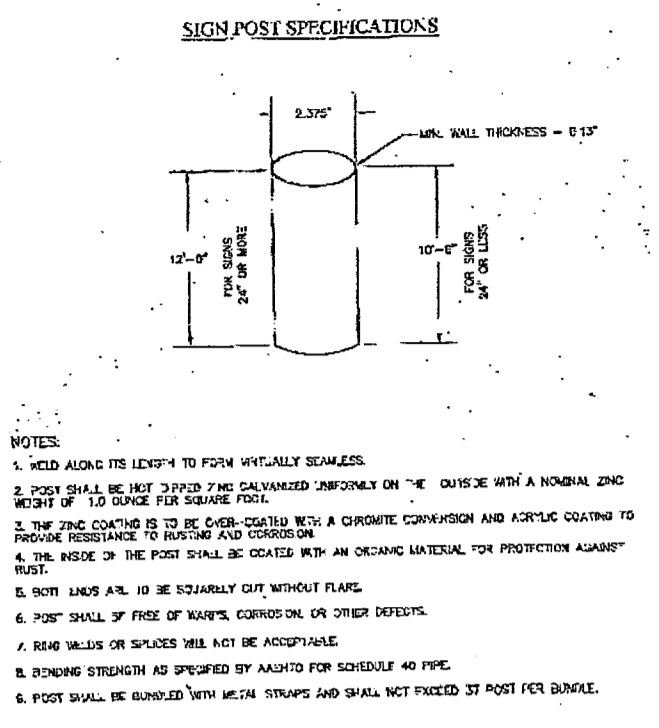
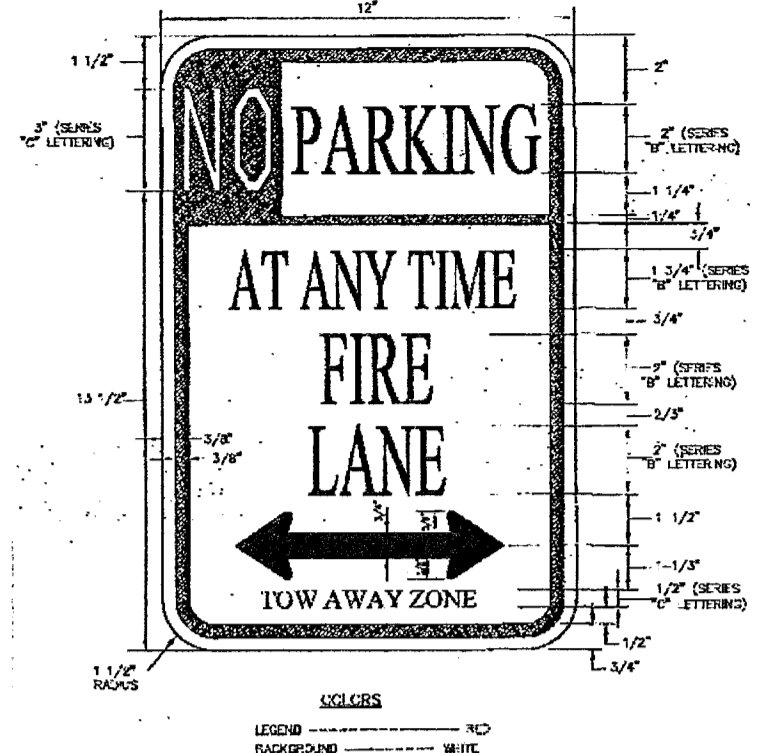
ENRIQUE A. REYES
35506
7 Sep 2010

REY ENGINEERING
CONSULTING ENGINEERS SURVEYORS AND PLANNERS
11348 BOB PITCHER BLVD. SUITE 100
EL PASO, TEXAS 79936

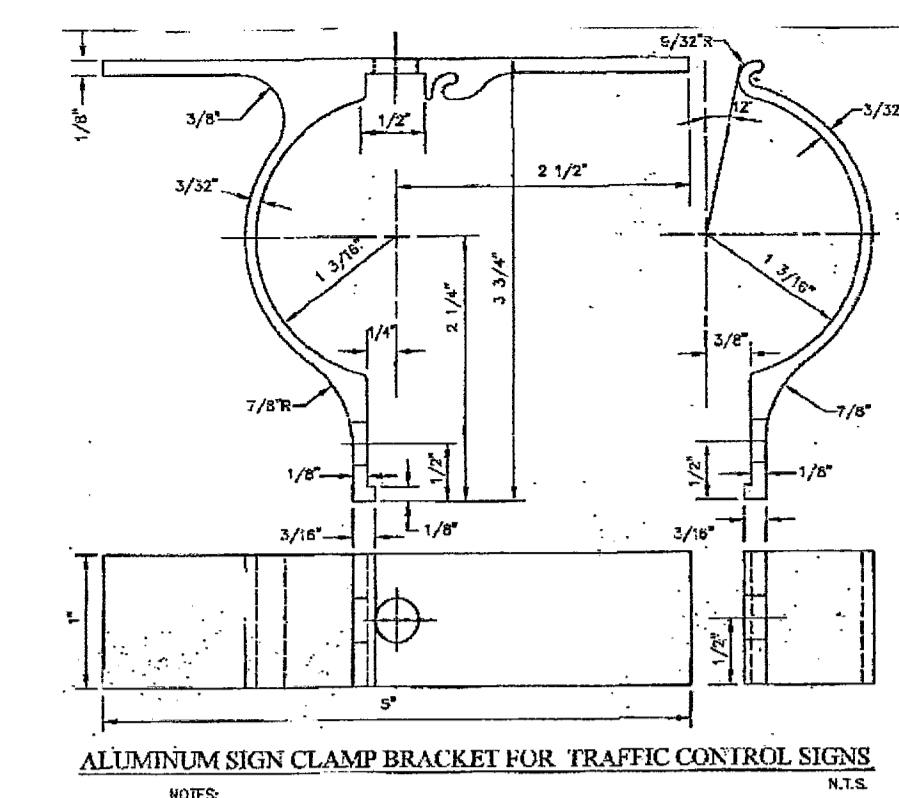
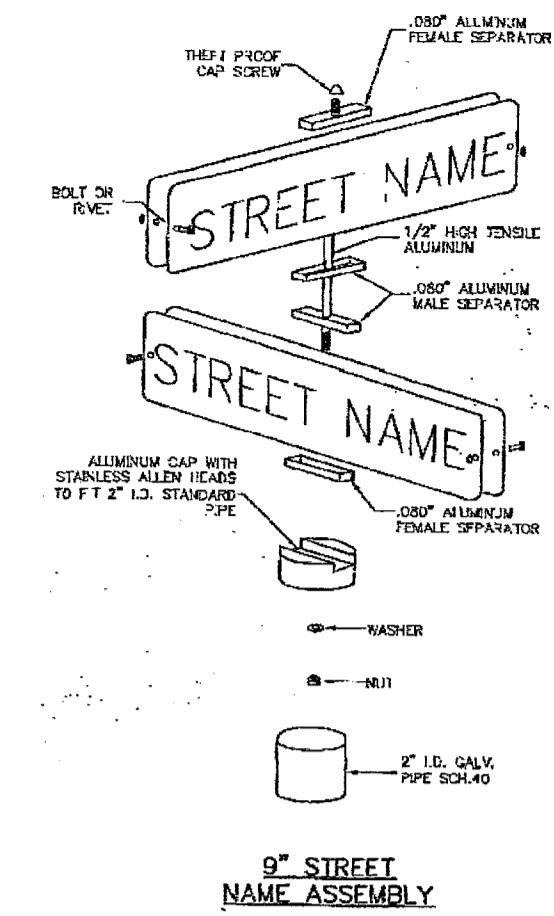
SHEET TITLE: PROPOSED ILLUMINATION, STREET SIGNS & DETAILS.
C-10
SHT. 13 OF 14

103169

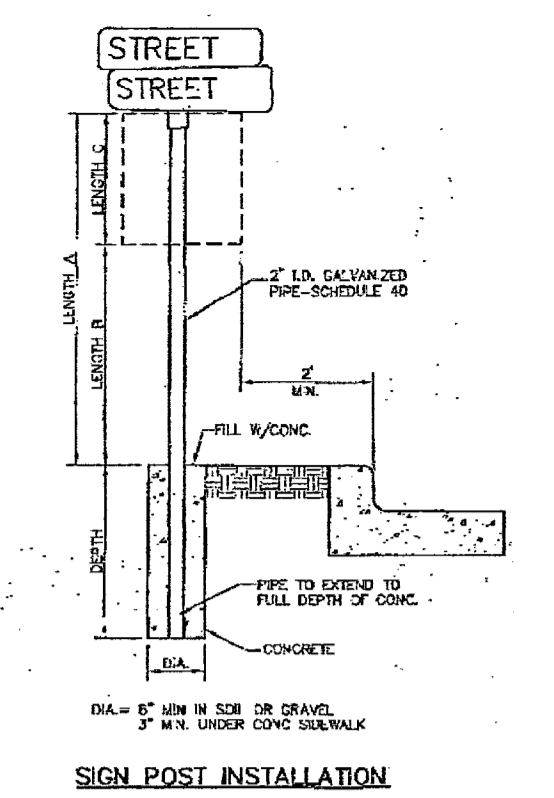
- SPACE BETWEEN PRIMARY AND BLOCK NUMBER AREA MUST BE 1/2 THE AESTHETIC WORK SPACE USED IN THE PRIMARY LEGEND.
- SUFFIX LETTER SIZE FOR ALL LENGTHS MUST BE 2" CAPITALS, "C" SERIES, EXCEPT THAT SUFFIX "A" OR "B" WHICH SUFFIX ABBREVIATION EXCEEDS TWO LETTERS, MAY BE USED.
- SIZE OF LEGEND: FOR 9" STREET NAME SIGNS, THE PRIMARY LEGEND OR STREET NAME MUST HAVE CAPITAL LETTERS SIX INCHES OF HEIGHT AND ALL SECONDARY LEGENDS, INCLUDING THE SUFFIX, DO NOT EXCEED 1 1/2" HEIGHT.
- SUFFIX LETTER SIZE FOR ALL LENGTHS MUST BE 2" CAPITALS, "C" SERIES, EXCEPT THAT SUFFIX "A" OR "B" WHICH SUFFIX ABBREVIATION EXCEEDS TWO LETTERS, MAY BE USED.
- POSITION OF LEGEND: EACH SIGN FACE WILL CONSIST OF THE STREET NAME, SUFFIX AND TWO ZEROS OF THE BLOCK NUMBER. THE ADDITIONAL NUMBERS OF THE BLOCK NUMBER WILL BE APPLIED BY THE CITY OF EL PASO. THE SUFFIX WILL BE LOCATED IN THE UPPER RIGHT CORNER AND THE BLOCK NUMBER IN THE LOWER RIGHT CORNER OF THE SIGN FACE AND THE STREET NAME CENTERED IN THE REMAINING SPACE.
- SIGN FABRICATION: THE SIGN FACE MUST BE FABRICATED BY REVERSE SCREENING GREEN, TRANSPARENT COLOR OVER SILVER REFLECTIVE SURFACING. FRAGMENT PROCESS COLORS MUST BE AS RECOMMENDED BY THE SIGNING MANUFACTURER. CUT-OUT OR APPLIED LEGENDS ARE NOT PERMITTED. SIGN FACES MUST BE COMPOSED OF ONE PANELED OR PANEL OF REFLECTIVE SHEETING.
- TYPE OF SHEETING: ENOUGH GRADE REFLECTIVE SHEETING MUST BE USED IN THE FABRICATION OF THE STREET NAME SIGN FACES.



SIGN CLASS	SIGN LENGTH	PRIMARY LETTERS SIZE & SERIES	SUFFIX & BLOCK NUMBER SIZE & SERIES
ARTERIAL STREETS	36"	1" C SERIES	1" C SERIES
	42"	1" C SERIES	1" C SERIES
	48"	1" C SERIES	1" C SERIES



- NOTES:
- ALL HOLES 3/8" DIA.
 - HOLES & FINISHES "A" FINISH.
 - FINISH THE FOLLOWING HYPOTENUSE FOR EACH BRACKET:
 - 1 - 5/8" 3/4" HOLES
 - 1 - 3/8" 1 1/4" HOLES
 - 2 - 5/8" HOLES & LOCK WASHERS
 - 2 - FLAT WASHERS
 - THE BRACKET IS TO BE MADE FROM 6061 T6 ALUMINUM ALLOY. THE BRACKET IS TO HAVE AN EXTRUSION ANGLE FEATURE OFFERING A POSITIVE MEANS OF ATTACHING A FLAT SIGN TO A STANDARD 2" (2 1/8" O.D.) TUBULAR POST.



SIGN POST INSTALLATION

LENGTH A	LENGTH B	LENGTH C	DEPTH
10 FT	2 FT	10 FT	2 FT
9 FT	2 FT	9 FT	1 1/2 FT

1 DETAIL SCALE: N.T.S.

2 DETAIL SCALE: N.T.S.

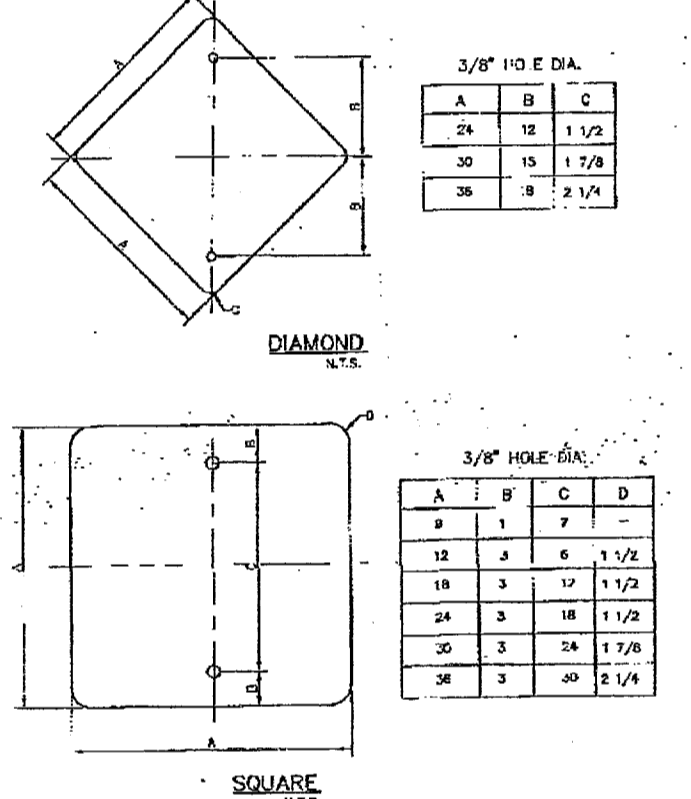
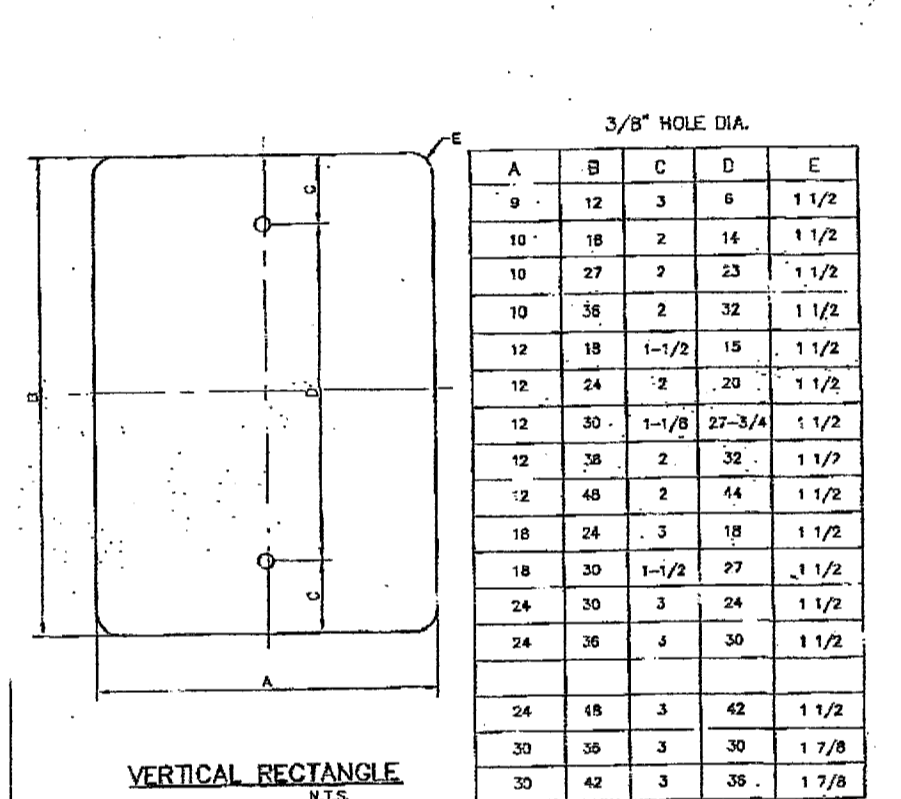
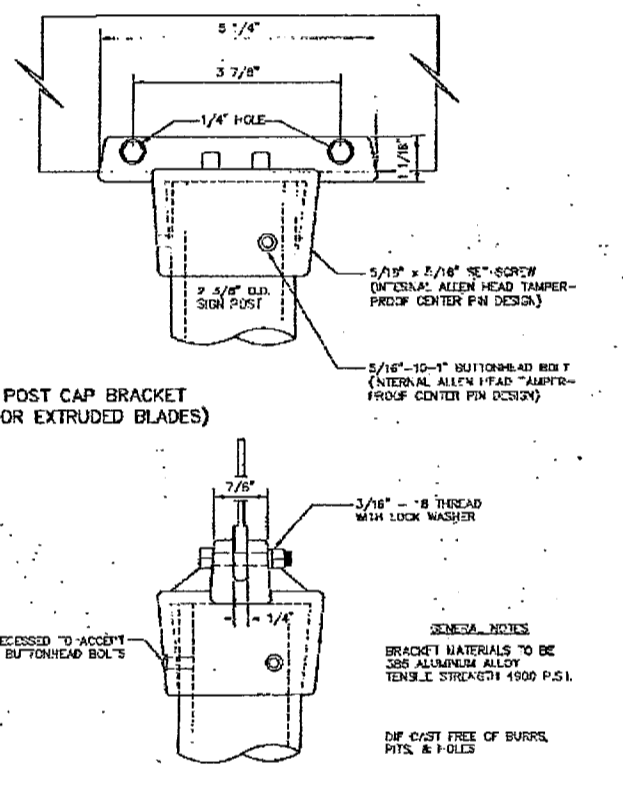
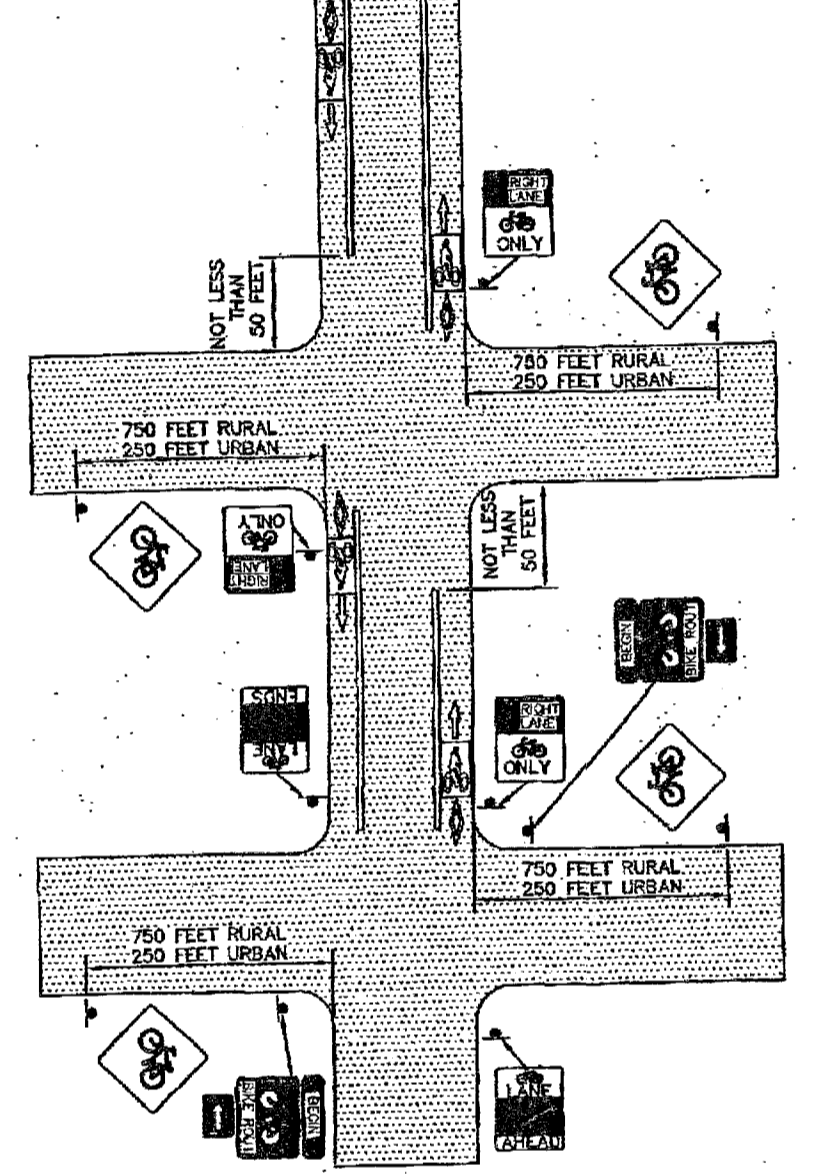
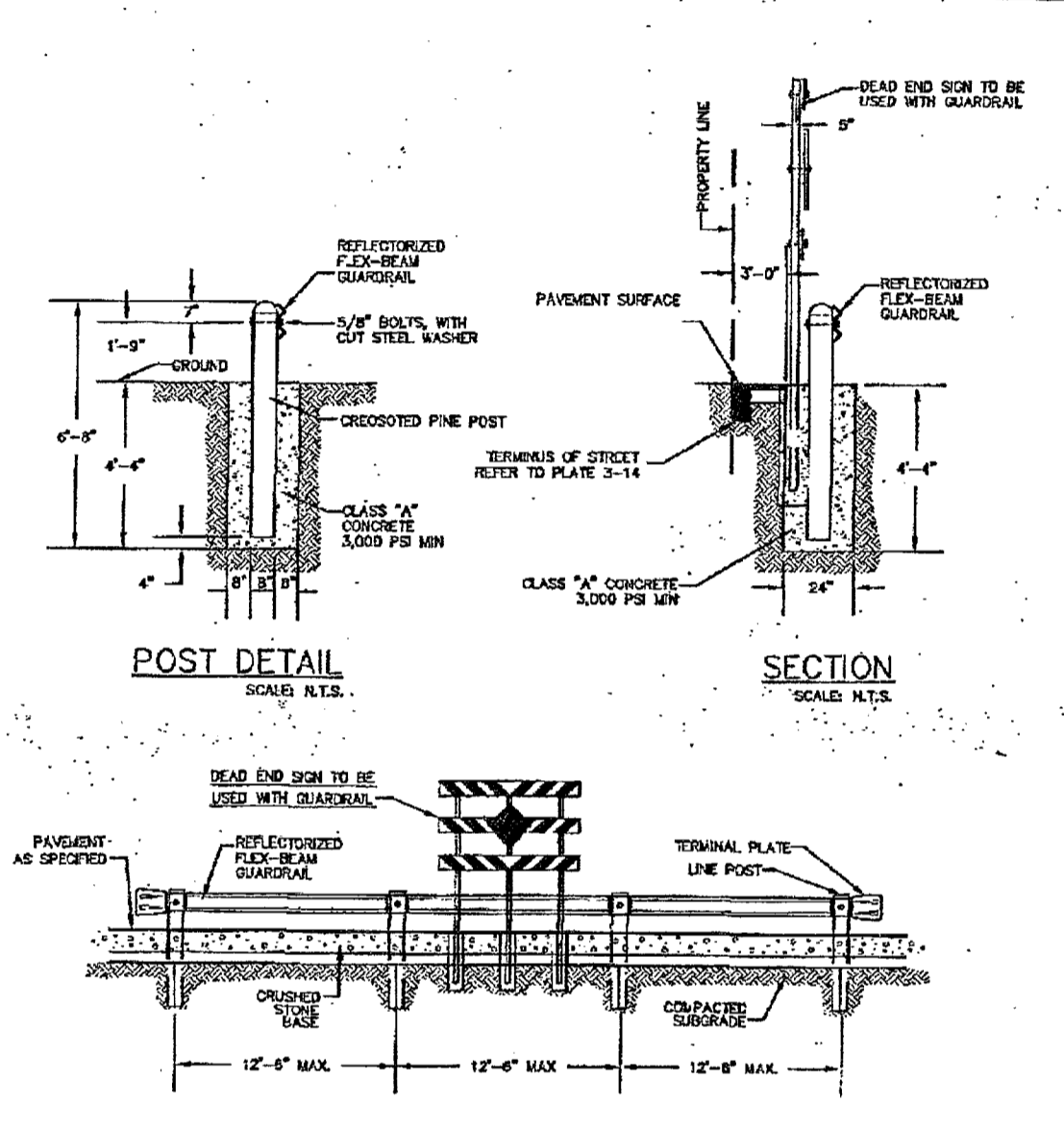
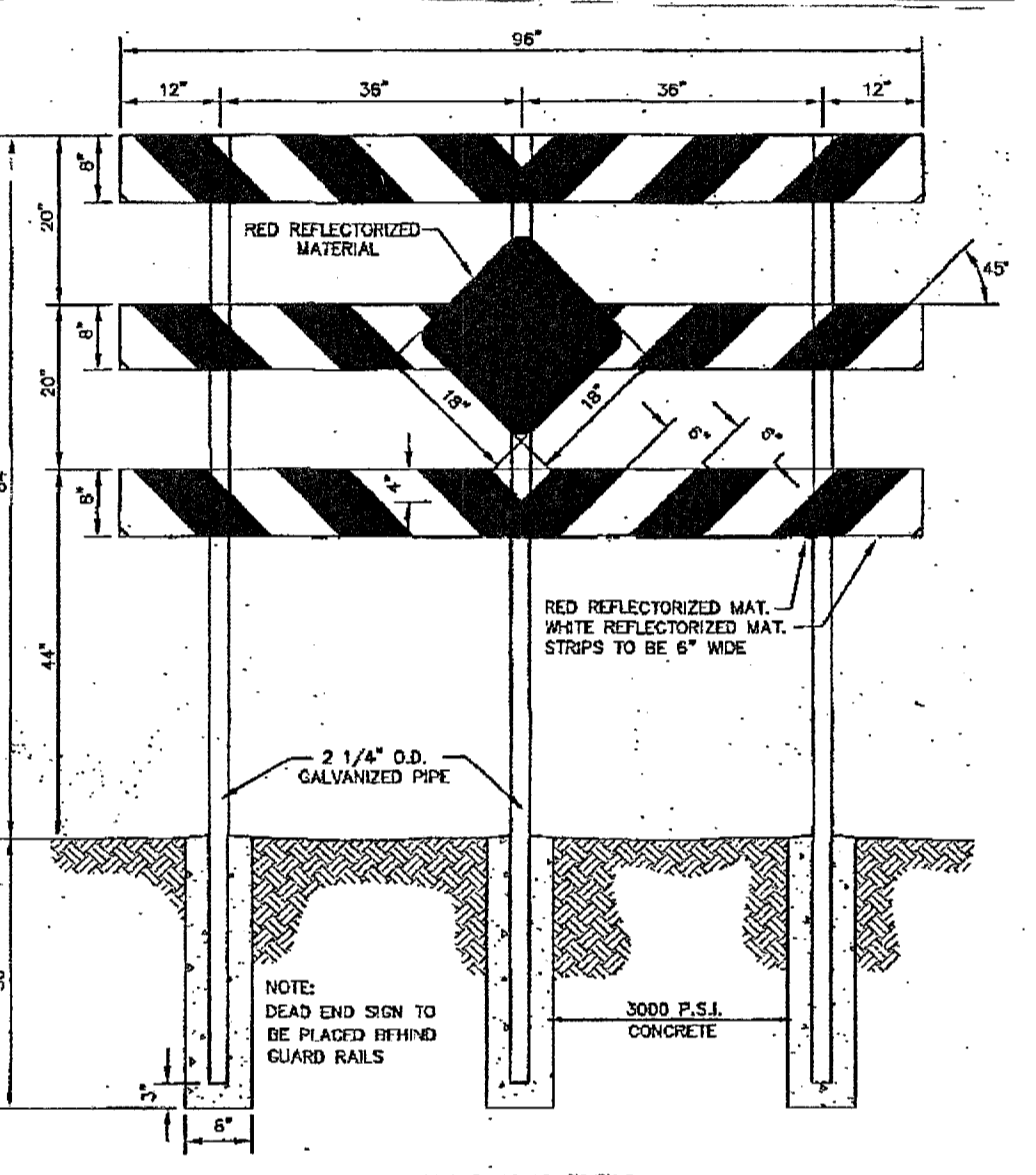
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4 DETAIL SCALE: N.T.S.

5 DETAIL SCALE: N.T.S.

6 DETAIL SCALE: N.T.S.

7 DETAIL SCALE: N.T.S.



8 DETAIL SCALE: N.T.S.

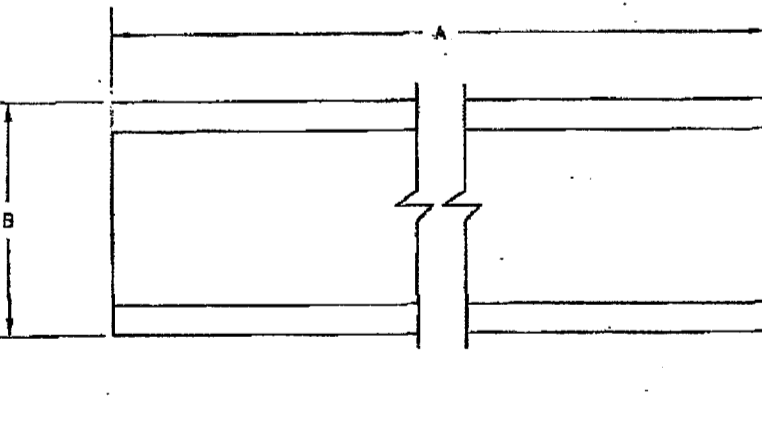
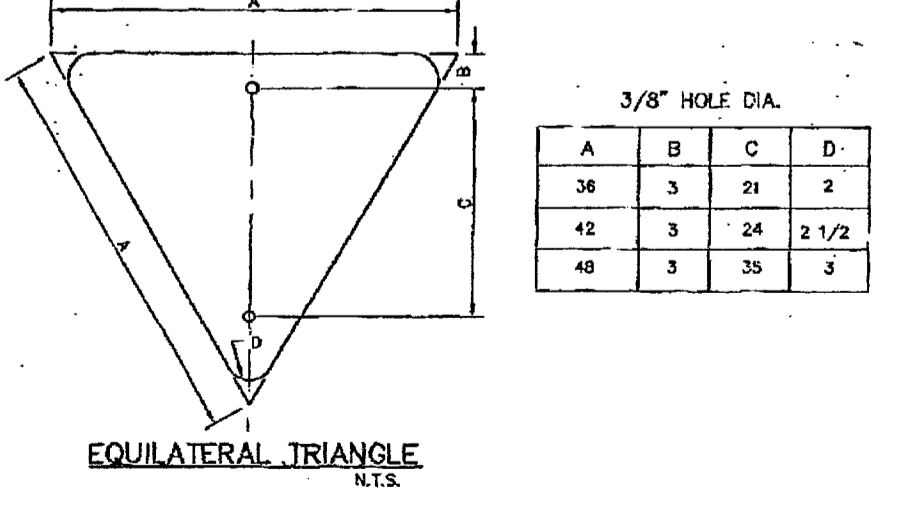
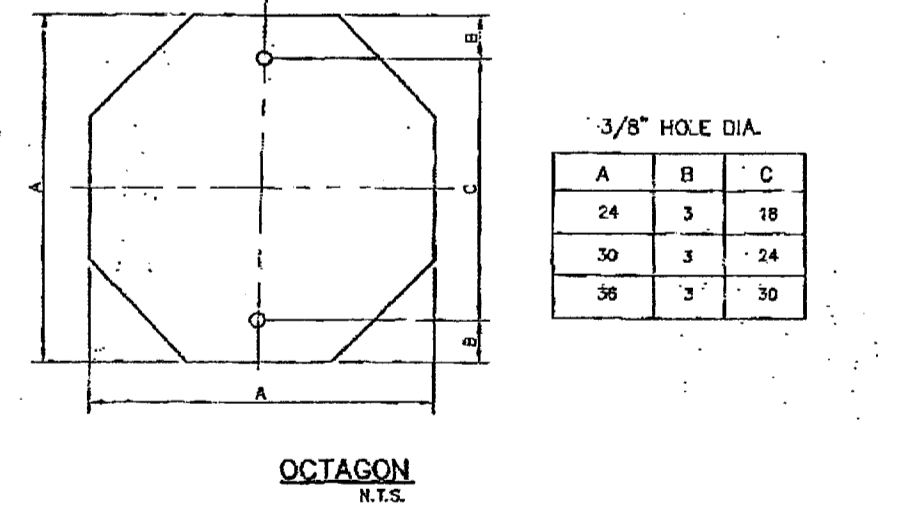
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10 DETAIL SCALE: N.T.S.

11 DETAIL SCALE: N.T.S.

12 DETAIL SCALE: N.T.S.

13 DETAIL SCALE: N.T.S.



9" STREET NAME SIGN EXTRUSION ALUMINUM SIGN BLANK

DIMENSIONS (INCHES)

A	B	C	D	E	F
30	9	0.800	1/4"	0.091	0.25
36	9	0.800	1/4"	0.091	0.25
42	9	0.800	1/4"	0.091	0.25
48	9	0.800	1/4"	0.091	0.25

14 DETAIL SCALE: N.T.S.

15 DETAIL SCALE: N.T.S.

REVISIONS

05-05-10	

OWNER PROJECT NAME

DIANJOU PLACE IMPROVEMENTS

REVISIONS

05-05-10

10-17-09

DIANJOU PLACE IMPROVEMENTS

EL PASO, TEXAS

DIANJOU DRIVE

ENRIQUE A. REY

35809

7 Sep 2010

REY ENGINEERING

CONSULTING ENGINEERS ARCHITECTS AND PLANNING

11424 BOB WITCHELL BLVD., EL PASO, TEXAS 79936

(951) 309-8889

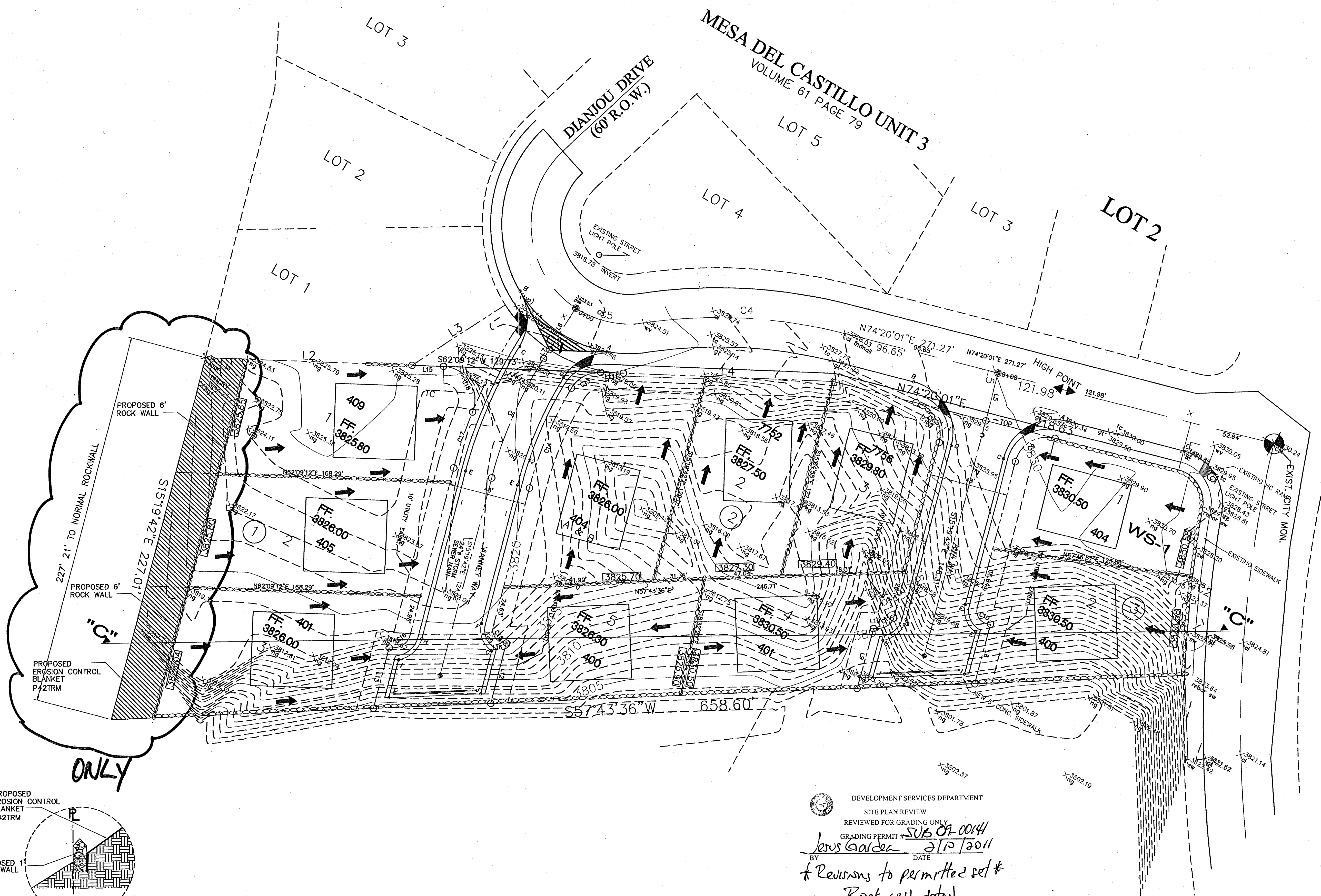
SHEET TITLE

SIGNS DETAILS

C-11

SHT. 14 OF 14

103169



REVISIONS	
△	01-27-11
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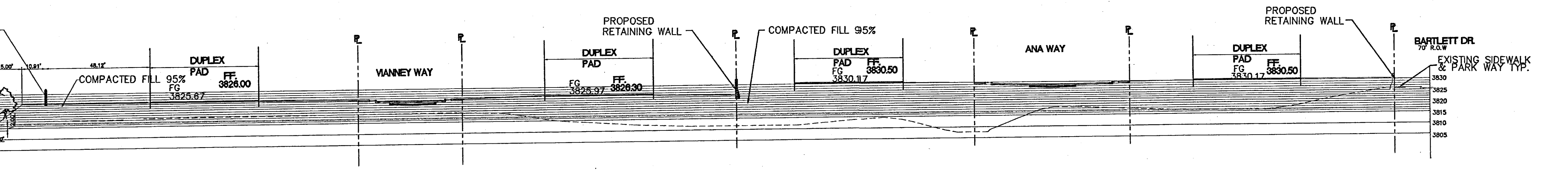
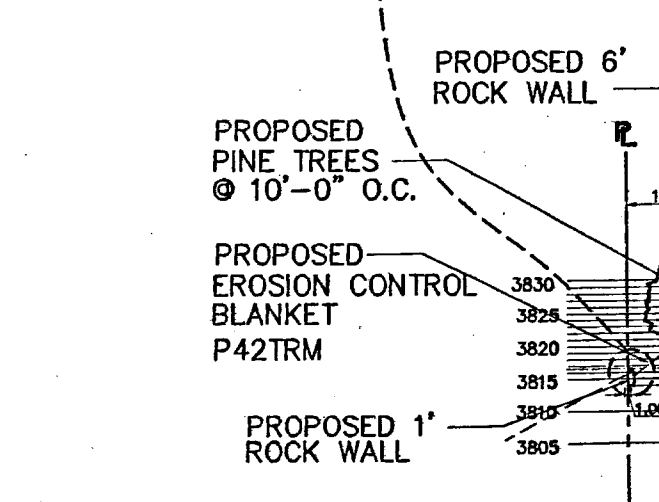
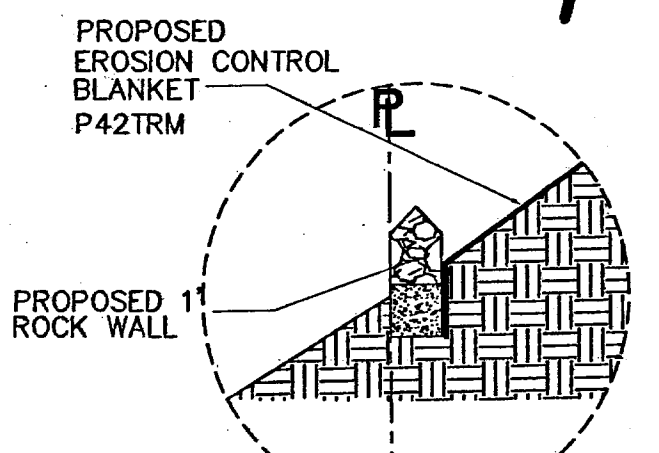
PROJECT ARCHITECT:	PROJECT NUMBER:	DRAWING BY:	DATE:	FILE:

OWNER
XXXXXX

PROJECT NAME
DIANJOU PLACE IMPROVEMENTS
DIANJOU DRIVE
EL PASO, TEXAS



DEVELOPMENT SERVICES DEPARTMENT
SITE PLAN REVIEW
REVIEWED FOR GRADING ONLY
GRADING PERMIT # SUB 07 0014
BY Jesus Garcia DATE 2/12/2011
* Revisions to permitted set *
Rock wall detail



SECTION "C-C"
Horizontal Scale: 1" = 30.0'
Vertical Scale: 1" = 30.0'

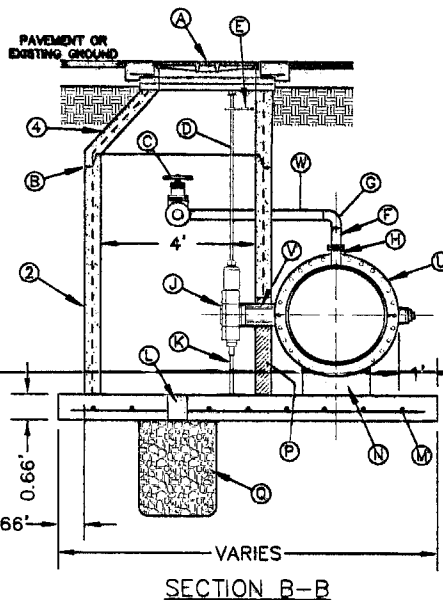
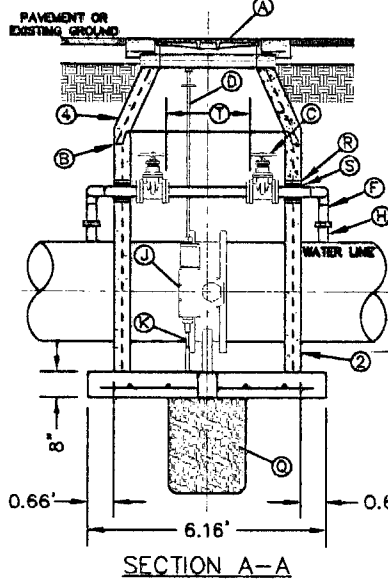
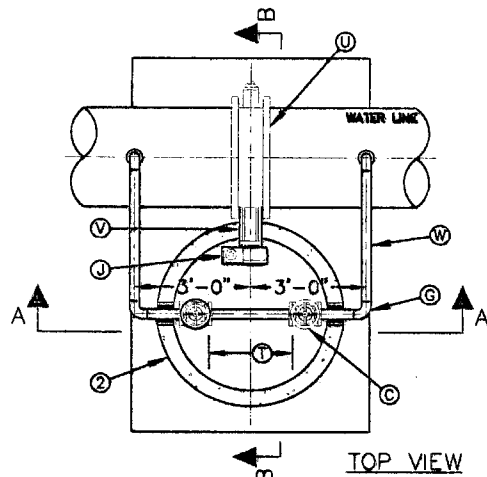
REY ENGINEERING
Consulting Engineering & Surveying
TEXAS FIRM REGISTRATION F-33658
2287 TRAWOOD B-3, EL PASO, TX 79936
TEL OFFICE (915) 633-0880 MOBILE (915) 309-1888

SHEET TITLE
ROCK WALL DETAIL

D-1
SHT. 03 OF 13

103169

17100-LOGS



BUTTERFLY VALVE IN MANHOLE INSTALLATION
FOR 24" AND LARGER WATER LINES N.T.S.

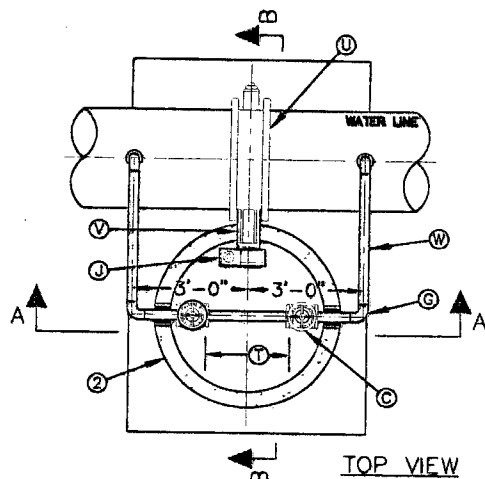
GENERAL NOTES:

1. INSTALLATION APPLICABLE TO S.C.C.P. & STEEL WATER MAINS ONLY. INSTALLATION FOR OTHER PIPE MATERIALS REQUIRE E.P.W.U. APPROVAL.
2. PRE-CAST MANHOLE SECTIONS SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478 AND SHALL MEET HS-20 LOADING. PROVIDE REINFORCEMENT WITHIN 3" @ OPENINGS OR KNOCKOUTS. OPENINGS (UP TO 8") MADE IN FIELD SHALL BE CORE DRILLED.
3. MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
4. ECCENTRIC CONE SECTION REINFORCEMENT IN ACCORDANCE WITH ASTM C-478.

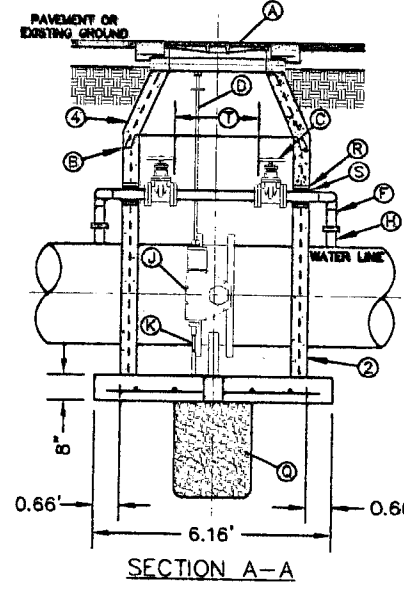
CONSTRUCTION KEY NOTES:

- A. MANHOLE RING AND COVER (SEE DETAILS 377 & 378). SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 185).
- B. ALL JOINTS TO BE TONGUE, GROOVE AND SEALED WITH RAM-NEK OR APPROVED EQUAL.
- C. 3" FLANGED GATE VALVE (NORMALLY CLOSED) WITH REMOVABLE HAND-WHEEL.
- D. 1 1/4" DIAMETER SOLID STEEL EXTENSION STEM WITH SQUARE SOCKET ON BOTTOM TO FIT 2" SQUARE VALVE NUT AND 2" SQUARE OPERATOR NUT ON TOP.
- E. ADJUSTABLE EXTENSION STEM GUIDE (AS PER DETAIL 261-3) @ 6' MAX. INTERVALS.
- F. 3" SCH. 40 STEEL PIPE (FLxPE) WRAPPED WITH APPROVED POLYKEN TAPE (MIN. 80 MILS) COATING.
- G. 3"-90° WELDED (PExPE) ELBOW (TYP.).
- H. 3" WELDED FLANGE OUTLET (INSTALLED BY PIPE MANUFACTURER).
- J. BUTTERFLY VALVE OPERATOR.
- K. ADJUSTABLE SUPPORT OR APPROVED EQUAL.
- L. 6" DIAMETER DRAIN HOLE FILLED WITH GRAVEL.
- M. #5 @ 12" O.C.E.W.
- N. CONCRETE SUPPORT.
- P. NOTCH MANHOLE SECTION FOR VALVE OPERATOR. FILL WITH BRICK AND MORTAR AFTER VALVE INSTALLATION.
- Q. 24" DIAMETER BY 2'-6" DEEP GRAVEL SUMP.
- R. CEMENT GROUT.
- S. 1" PREMOULDED ASPHALT EXPANSION JOINT.
- T. INSTALL A 3" DIA. DUCTILE IRON SPOOL PIECE WITH FLANGED ENDS. UNI-FLANGE NOT ACCEPTABLE. ONE SPOOL PIECE TO BE PROVIDED FOR EACH BUTTERFLY VALVE LOCATION. PROVIDE A 1" THREADED OUTLET WITH PLUG ON SPOOL PIECE. ALL SPOOL PIECES TO BE PROVIDED WITH FULL FACE GASKETS.
- U. BUTTERFLY VALVE.
- V. VALVE OPERATOR EXTENSION - 12" LONG.
- W. 3" SCH. 40 STEEL PIPE (PExPE) WRAPPED WITH APPROVED POLYKEN TAPE (MIN. 80 MILS) COATING.

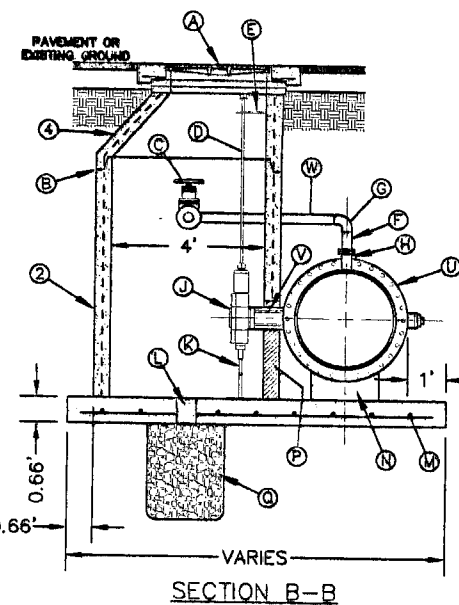




TOP VIEW



SECTION A-A



SECTION B-B

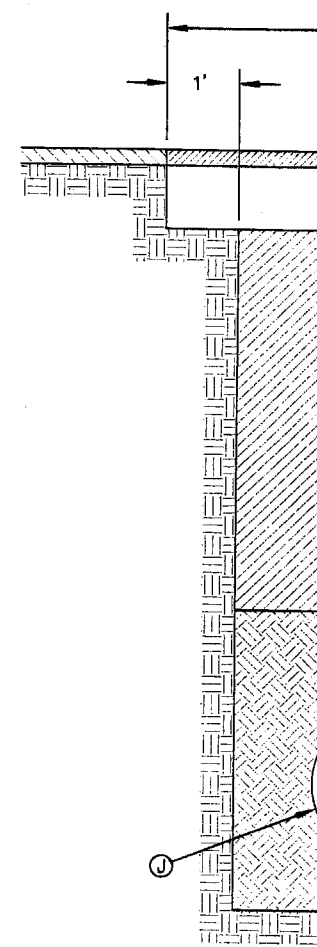
BUTTERFLY VALVE IN MANHOLE INSTALLATION FOR 24" AND LARGER WATER LINES N.T.S.

GENERAL NOTES:

1. INSTALLATION APPLICABLE TO S.C.C.P. & STEEL WATER MAINS ONLY. INSTALLATION FOR OTHER PIPE MATERIALS REQUIRE E.P.W.U. APPROVAL.
2. PRE-CAST MANHOLE SECTIONS SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478 AND SHALL MEET HS-20 LOADING. PROVIDE REINFORCEMENT WITHIN 3" @ OPENINGS OR KNOCKOUTS. OPENINGS (UP TO 8") MADE IN FIELD SHALL BE CORE DRILLED.
3. MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
4. ECCENTRIC CONE SECTION REINFORCEMENT IN ACCORDANCE WITH ASTM C-478.

CONSTRUCTION KEY NOTES:

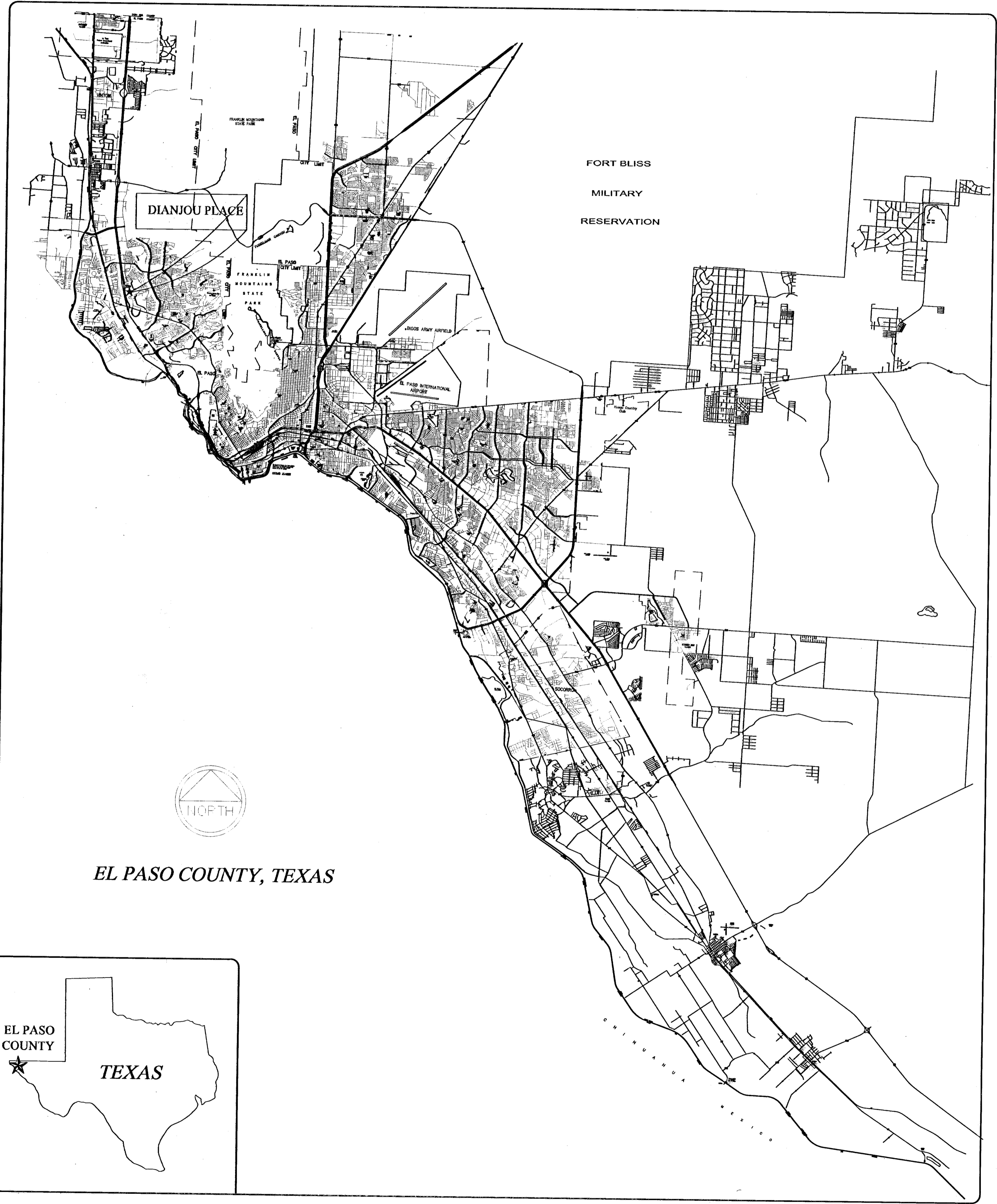
- A. MANHOLE RING AND COVER (SEE DETAILS 377 & 378). SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 185).
- B. ALL JOINTS TO BE TONGUE, GROOVE AND SEALED WITH RAM-NEK OR APPROVED EQUAL.
- C. 3" FLANGED GATE VALVE (NORMALLY CLOSED) WITH REMOVABLE HAND-WHEEL.
- D. 1 1/2" DIAMETER SOLID STEEL EXTENSION STEM WITH SQUARE SOCKET ON BOTTOM TO FIT 2" SQUARE VALVE NUT AND 2" SQUARE OPERATOR NUT ON TOP.
- E. ADJUSTABLE EXTENSION STEM GUIDE (AS PER DETAIL 261-3) @ 6' MAX. INTERVALS.
- F. 3" SCH. 40 STEEL PIPE (FLXPE) WRAPPED WITH APPROVED POLYKEN TAPE (MIN. 80 MILS) COATING.
- G. 3"-90° WELDED (PEXPE) ELBOW (TYP.).
- H. 3" WELDED FLANGE OUTLET (INSTALLED BY PIPE MANUFACTURER).
- J. BUTTERFLY VALVE OPERATOR.
- K. ADJUSTABLE SUPPORT OR APPROVED EQUAL.
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- P. NOTCH MANHOLE SECTION FOR VALVE OPERATOR. FILL WITH BRICK AND MORTAR AFTER VALVE INSTALLATION.
- Q. 24" DIAMETER BY 2'-6" DEEP GRAVEL SUMP.
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- S. 1" PREMOULDED ASPHALT EXPANSION JOINT.
- T. INSTALL A 3" DIA. DUCTILE IRON SPOOL PIECE WITH FLANGED ENDS. UNI-FLANGE NOT ACCEPTABLE. ONE SPOOL PIECE TO BE PROVIDED FOR EACH BUTTERFLY VALVE LOCATION. PROVIDE A 1" THREADED OUTLET WITH PLUG ON SPOOL PIECE. ALL SPOOL PIECES TO BE PROVIDED WITH FULL FACE GASKETS.
- U. BUTTERFLY VALVE.
- V. VALVE OPERATOR EXTENSION - 12" LONG.
- W. 3" SCH. 40 STEEL PIPE (PEXPE) WRAPPED WITH APPROVED POLYKEN TAPE (MIN. 80 MILS) COATING.



DIANJOU PLACE
EL PASO, TEXAS.

AS BUILT PLANS

VICINITY MAP

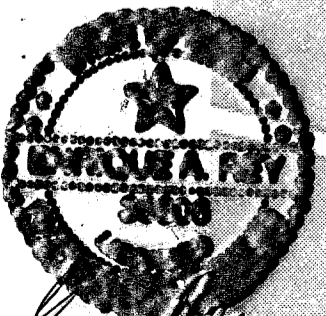
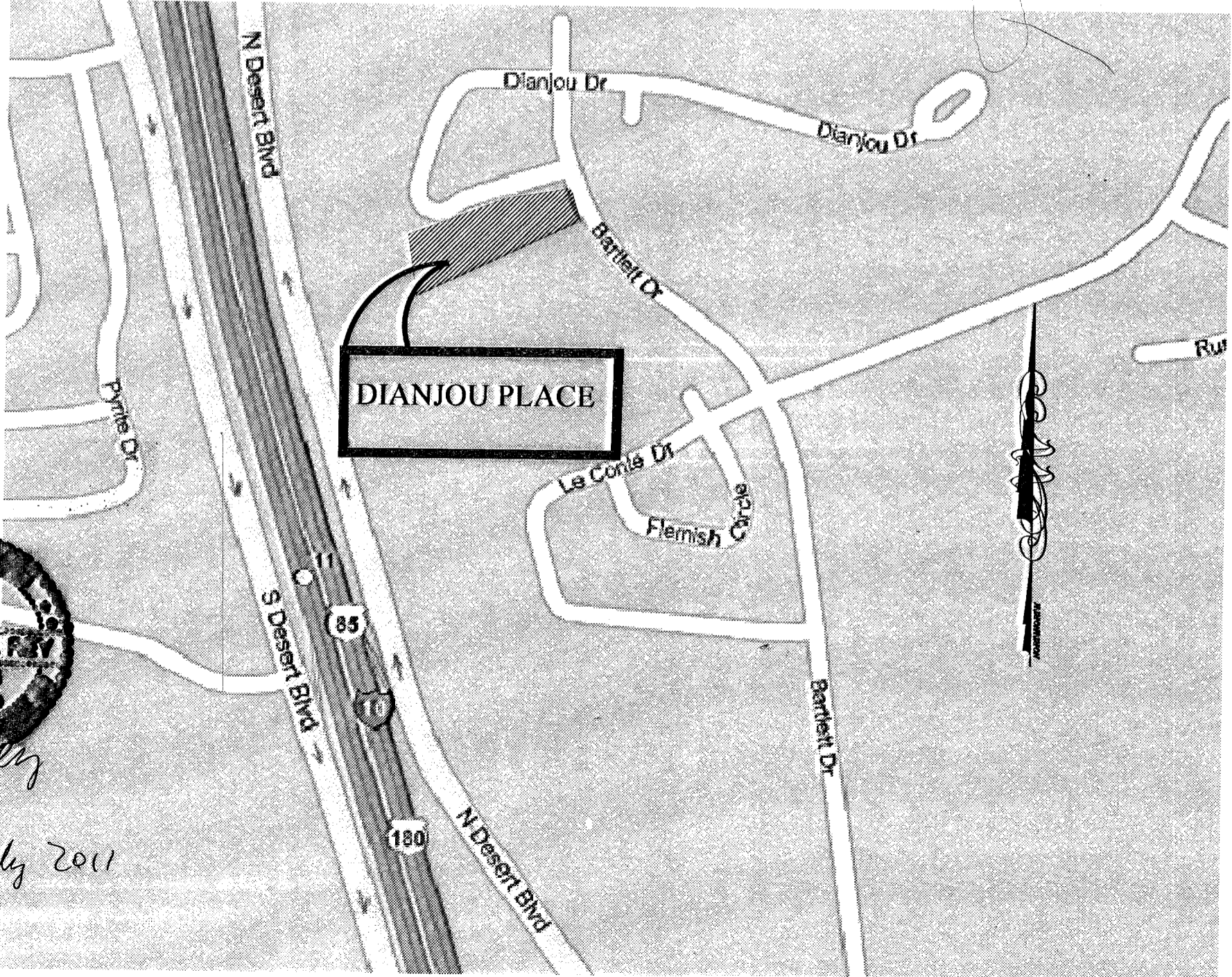


SHEET

TITLE

SHEET	TITLE
1 OF 15	PLAT
2 OF 15	C-1 GRADING & DRAINAGE PLAN
3 OF 15	C-1.1 DRAINAGE PLAN AND DETAILS
4 OF 15	C-2 POLLUTION CONTROL PLAN
5 OF 15	C-3 SECTIONS AND DETAILS
6 OF 15	D-1 ROCK WALL PLAN AND DETAILS
7 OF 15	C-4 AS BUILT WATER PLAN AND DETAILS
8 OF 15	C-5 STREET SANITARY SEWER PLAN-PROFILE AND SECTIONS
9 OF 15	C-6 STREET POTABLE WATER PLAN- PROFILE AND SECTIONS
10 OF 15	C-7 AS BUILT STREET STORM WATER PLAN-PROFILE
11 OF 15	C-7.1 AS BUILT CURBS, PAVEMENT & RETAINING WALL PLAN-PROFILE
12 OF 15	C-8 PROPOSED POTABLE WATER & SANITARY SEWER DETAILS
13 OF 15	C-9 PROPOSED POTABLE WATER & SANITARY SEWER DETAILS
14 OF 15	C-10 PROPOSED ILLUMINATION, STREET SIGNS PLAN AND DETAILS
15 OF 15	C-11 SIGNS DETAILS

LOCATION MAP SCALE 1"=600'



28 July 2011

REY ENGINEERING CONSULTING ENGINEERING-SURVEYING-LAND PLANNING
11348 BOB MITCHELL DR. EL PASO, TEXAS 79936 PH. 915-309-1989

DIANJOU PLACE

BEING ALL OF DRAINAGE RIGHT-OF-WAY NEXT TO LOT 1, BLOCK 11,
MESA DEL CASTILLO UNIT 3,
A PORTION OF TRACT 1421, A.F. MILLER SURVEY NO. 210;
AND A PORTION OF TRACT 3B3A, JOHN WHITTAKER SURVEY NO. 134,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING: 2.762 ACRES

DEDICATION

Mario Ornelas, the owner of this land does hereby present this plot and dedicates to the use of the public, the streets, drives and utility easements as hereon laid down and designated, including easements for overhead of service wires for pole type utilities, and buried service wires, conduits and pipes for underground utilities, and the right to ingress and egress for service and construction, and the right to trim interfering trees and shrubs.

Witness our signature this 8 day of APRIL, 2011.

Mario Ornelas
Mario Ornelas, Owner

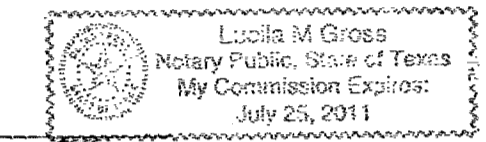
ATTEST: NOT REQUIRED

ACKNOWLEDGEMENT

COUNTY OF EL PASO
STATE OF TEXAS

Before me, the undersigned authority, on this day personally appeared Mario Ornelas, Owner, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same as the act and deed for the purpose and considerations herein expressed.

Given under my hand and seal of office this 8th day of April, 2011.



Lucille M. Gross
Notary Public in and for El Paso County My Commission Expires

DEDICATION

The City of El Paso, owner of this land does hereby present this plot and dedicates, if not previously dedicated, its respective portion of said property to the use of the public, the streets, drives and utility easement, as hereon laid down and designated, including easements for overhead of service wires, conduits and pipes for underground utilities, and the right to ingress and egress for service and construction, and the right to trim interfering trees and shrubs.

Witness our signature this 28 day of April, 2011.

Paul Wilson
City Manager

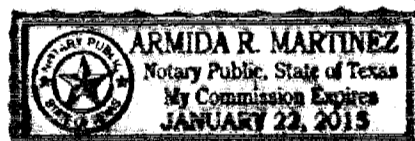
ACKNOWLEDGEMENT

COUNTY OF EL PASO
STATE OF TEXAS

Before me, the undersigned authority, on this day personally appeared Joyce Wilson, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that they executed the same as the act and deed for the purpose and considerations herein expressed.

Given under my hand and seal of office this 27 day of April, 2011.

Armida R. Martinez
Notary Public in and for El Paso County My Commission Expires January 22, 2015



CITY PLANNING COMMISSION

This subdivision is hereby approved as to the platting and as to the condition of the dedication in accordance with Chapter 212 of the Local Government Code of Texas this 28 day of April, 2011.

Araceli
City Person

Philip Stearns
Secretary

City Engineer

Approved for filing this 25th day of APRIL, 2011.

FILING

Filed and recorded in the office of the County Clerk of El Paso County,

Texas, this 16 day of JUNE, 2011 A.D. in Volume

of the Plat Record, Page 20110041505 File No. 20110041505

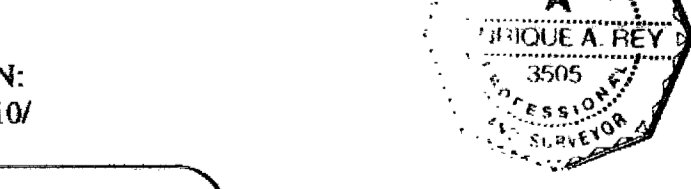
Doris Bunch *Verissa Morales*
County Clerk By Deputy

Prepared by and under the supervision of:

ENRIQUE A. REY, P.E.
Registered Professional Engineer
No. 35608

Enrique A. Rey
Enrique A. Rey, P.E.

This plot represents a survey made on the ground by me or under my supervision and complies with the current Texas Board of Professional Land Surveyors and Technical Standards.
Enrique A. Rey R.P.L.S. Texas, No. 35608



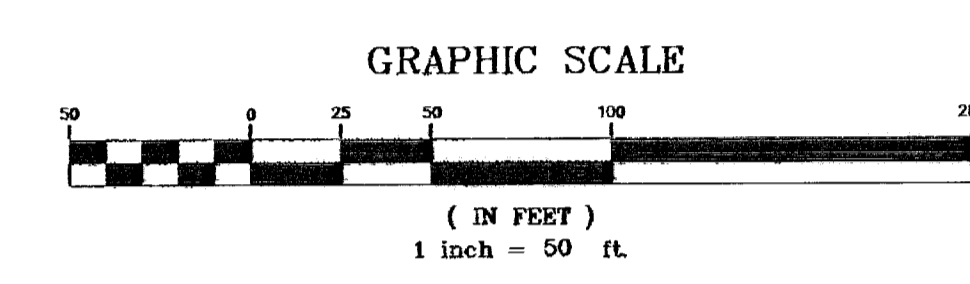
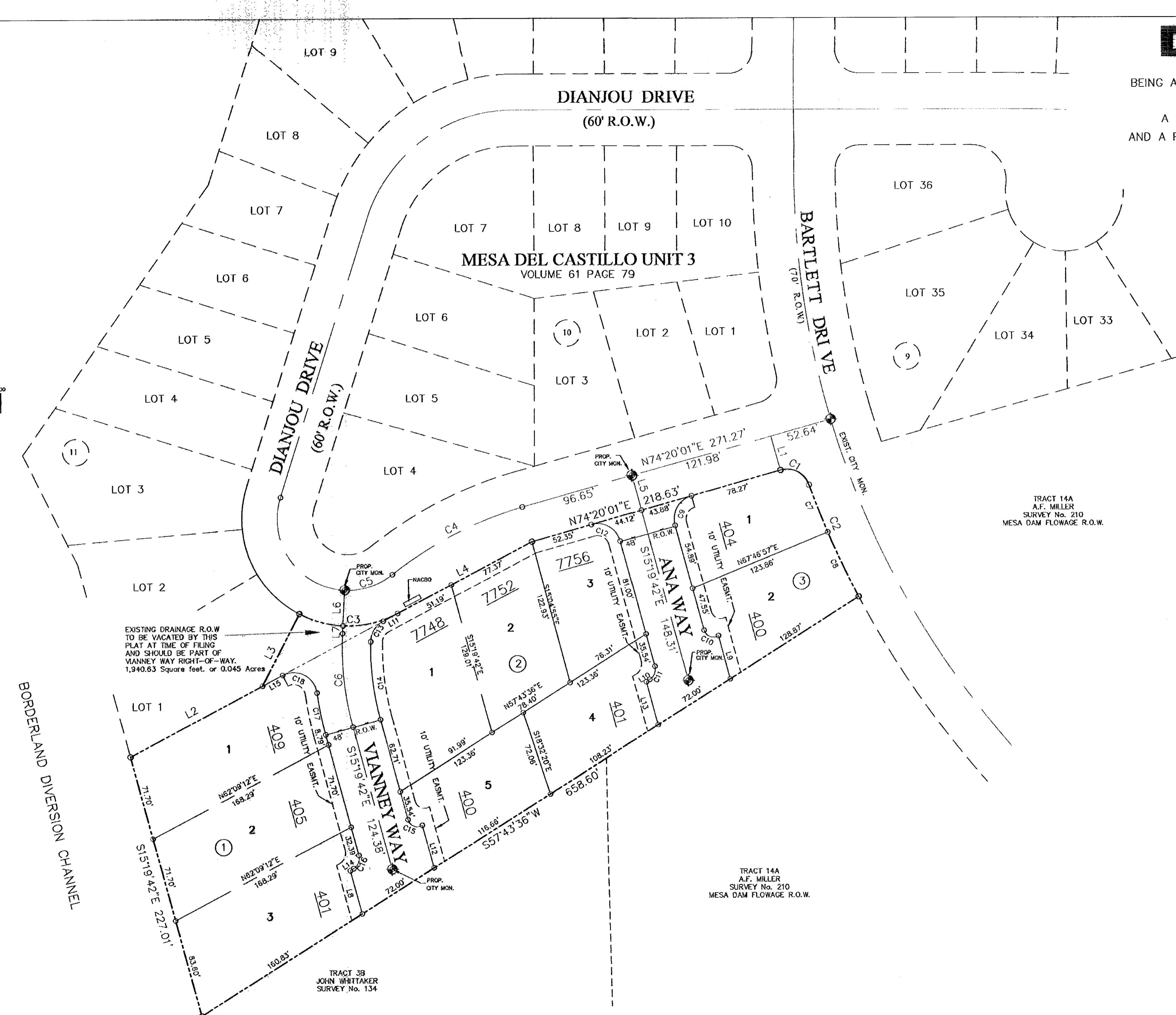
DATE OF PREPARATION:
04-07-2010/REV 05-25-2010/
REV 04-06-11

REY ENGINEERING
Consulting Engineering & Surveying
11348 BOB MITCHELL DRIVE, EL PASO, TX 79936
TEL. (915) 591-0097 MOBILE (915) 309-1889

PROPOSED LAND USE
RESIDENTIAL

SCHOOL DISTRICT
EL PASO INDEPENDENT SCHOOL DISTRICT

PROPERTY OWNER
MARIO ORNELAS
6813 IMPERIAL RIDGE
EL PASO, TEXAS 79912
(915) 727-3267 cell



NOTES:

SET 5/8" REBAR AT ALL EXTERIOR BOUNDARY CORNERS.

TAX CERTIFICATE FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.
DATE: 4/11/11
INSTRUMENT NO. 20110041506
20110041507

LOT CORNERS WILL BE SET UPON COMPLETION OF CONSTRUCTION OF ROADWAYS AND UTILITIES.

TIES SHOWN TO EXISTING CITY MONUMENTS ARE BASED ON RECORD INFORMATION ONLY. BEARINGS BY PLAT OF MESA DEL CASTILLO UNIT 3 RECORDED IN VOLUME 61, PAGE 79, PLAT RECORDS OF EL PASO COUNTY, TEXAS.

VEHICULAR ACCESS TO THOSE RESIDENTIAL LOTS ADJOINING BARTLETT SHALL BE FROM OTHER DEDICATED STREETS ONLY. THE INSTRUMENT ASSURING RELEASE OF ACCESS IS FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.
INSTRUMENT NO. _____

U.S. POSTAL SERVICE DELIVERY WILL BE PROVIDED THROUGH NEIGHBORHOOD DELIVERY COLLECTION BOX UNITS.

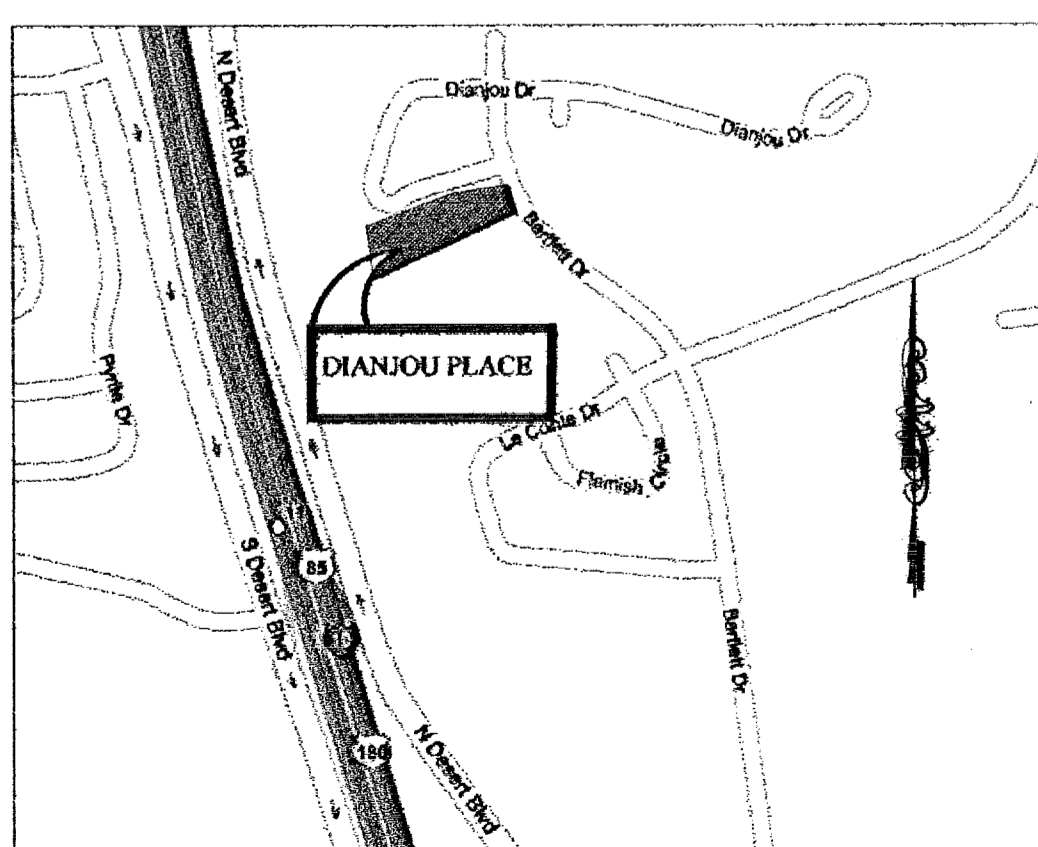
SET 1/2" REBAR AT ALL EXTERIOR BOUNDARY CORNERS UNLESS OTHERWISE NOTED

PROPOSED CITY MONUMENT

THIS PROPERTY LIES IN ZONE "C", AS DESIGNATED BY THE F.T.A. FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 48074-0021 D, DATED, JANUARY 03, 1997, CITY OF EL PASO, EL PASO COUNTY.

POTABLE WATER AND WASTE WATER SERVICE TO BE PROVIDED BY EL PASO WATER UTILITIES

LOCATION MAP SCALE 1"=600'



TOTAL RESIDENTIAL LOTS
10

LOT	AREA	AREA
1	11,737 SQ.FT.	0.270 ACRES
2	11,090 SQ.FT.	0.254 ACRES
3	14,418 SQ.FT.	0.330 ACRES
4	11,335 SQ.FT.	0.260 ACRES
5	8,419 SQ.FT.	0.193 ACRES
6	6,058 SQ.FT.	0.139 ACRES
7	8,084 SQ.FT.	0.185 ACRES
8	8,389 SQ.FT.	0.191 ACRES
9	7,789 SQ.FT.	0.178 ACRES
10	6,877 SQ.FT.	0.157 ACRES

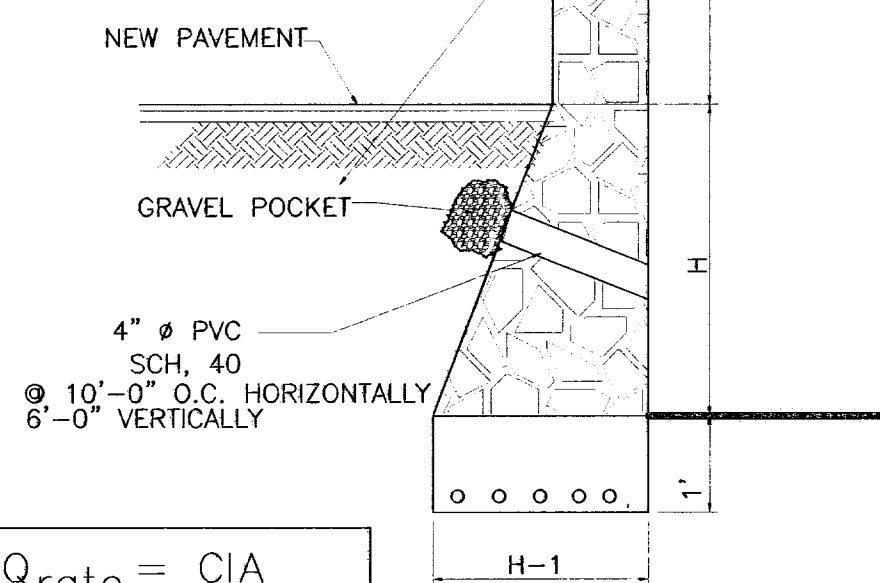
LINE	BEARING	LENGTH
L1	N15°28'39"W	30.00
L2	N82°09'12"E	128.68
L3	N27°27'29"E	68.11
L4	N62°09'12"E	128.58
L5	S15°19'42"E	30.00
L6	S02°24'44"W	30.00
L7	S02°24'44"W	6.54
L8	S15°19'42"E	37.63
L9	S15°19'42"E	37.63
L10	N57°43'36"W	3.50
L11	N62°09'12"E	13.92
L12	S15°19'42"E	37.63
L13	S15°19'42"E	37.63
L14	N57°43'36"W	3.50
L15	N62°09'12"E	18.28

CURVE	LENGTH	RADIUS	CHORD	TANGENT	CHORD BEARING	DELTA
C1	29.83	20.00	27.14	18.48	N62°35'54"W	85°28'10"
C2	102.75	769.89	102.67	31.45	S24°01'13"E	7°38'47"
C3	86.67	60.00	83.54	47.16	N89°48'09"E	55°19'01"
C4	124.41	312.85	123.59	63.04	S82°58'29"W	22°47'05"
C5	43.32	60.00	42.38	22.65	N72°13'50"E	41°21'48"
C6	73.58	250.00	73.25	40.13	S08°12'29"E	18°14'28"
C7	42.47	769.89	42.46	21.24	S01°48'38"E	1°02'17"
C8	60.28	769.89	60.26	30.16	S29°38'01"E	4°29'10"
C9	31.30	20.00	28.20	19.88	S29°30'09"W	89°39'43"
C10	15.68	8.58	12.29	10.91	S68°48'03"E	108°36'42"
C11	12.75	10.00	11.90	7.41	N21°11'57"E	7°03'18"
C12	31.53	20.00	28.37	20.12	N62°29'50"W	90°20'17"
C13	21.19	20.00	20.21	11.71	S31°48'13"W	60°41'59"
C14	69.20	238.00	65.96	33.34	S28°58'14"E	18°48'55"
C15	15.08	8.08	12.99	10.91	S68°48'03"E	106°58'42"
C16	12.75	10.00	11.90	7.41	N21°11'57"E	7°03'18"
C17	35.04	274.00	35.01	18.04	S11°33'38"E	7°32'08"
C18	38.42	20.00	32.78	28.59	S62°49'11"W	110°03'14"

DESCRIPTION	EXISTING	PROPOSED
EXISTING GROUND	---	---
PROPERTY LINE	---	---
CONTOUR LINE	3747	3735.50
ROCKWALL	---	---
SPOT ELEVATION	+47.50 GR	49.73 W
TOP OF SIDEWALK ELEVATION	+47.50 SW	49.73 SW
TOP OF CURB ELEVATION	36.01 TC	49.73 TC
TOP OF PAVEMENT ELEVATION	36.51 P	49.73 P
DRAINAGE FLOW	→	→
HIGH POINT	▲	▲
LOW POINT	▼	▼
POWER POLE	⊕	⊕
FIRE HYD	⊕	⊕
ELECTRIC BOX	⊕	⊕
WSA= WATER SHED AREAS		

- NOTES:
- 1.- CONCRETE TO BE 3000 PSI COMPRESSION STRENGTH.
 - 2.- REINFORCING STEEL TO BE A36 STEEL
 - 3.- MORTAR TO MEET ASTM STANDARDS FOR CMU AND/OR ROCK
 - 4.- ROCK TO BE FRANKLIN MOUNTAIN ROCK OR APPROVED EQUAL.

SELECTED GRANULAR MATERIAL BACK FILL TO BE COMPACTED TO 95% DENSITY AS PER ASTM D2922 NUCLEAR METHOD OR APPROVED EQUAL BACKFILLING TO BE DONE IN LAYERS NOT TO EXCEED 8" IN THICKNESS LOOSE MATERIAL.



"H"	"H 1"	MAIN REINF.	TEMP REINF.
22'-0"	11'-0"	9-#5 CONT.	#3 @ 36" O.C.
21'-0"	10'-6"	9-#5 CONT.	#3 @ 36" O.C.
20'-0"	10'-0"	9-#5 CONT.	#3 @ 36" O.C.
19'-0"	9'-6"	8-#5 CONT.	#3 @ 36" O.C.
18'-0"	9'-0"	8-#5 CONT.	#3 @ 36" O.C.
17'-0"	8'-6"	8-#5 CONT.	#3 @ 36" O.C.
16'-0"	8'-0"	7-#5 CONT.	#3 @ 36" O.C.
15'-0"	7'-6"	7-#5 CONT.	#3 @ 36" O.C.
14'-0"	7'-0"	7-#5 CONT.	#3 @ 36" O.C.
13'-0"	6'-6"	6-#5 CONT.	#3 @ 36" O.C.
12'-0"	6'-0"	6-#5 CONT.	#3 @ 36" O.C.
11'-0"	5'-6"	6-#5 CONT.	#3 @ 36" O.C.
10'-0"	5'-0"	6-#5 CONT.	#3 @ 36" O.C.
9'-0"	4'-6"	5-#5 CONT.	#3 @ 36" O.C.
8'-0"	4'-0"	5-#5 CONT.	#3 @ 36" O.C.
7'-0"	3'-6"	4-#5 CONT.	#3 @ 36" O.C.
6'-0"	3'-0"	4-#5 CONT.	#3 @ 36" O.C.
5'-0"	2'-6"	3-#5 CONT.	#3 @ 36" O.C.
4'-0"	2'-0"	3-#5 CONT.	#3 @ 36" O.C.
3'-0"	1'-6"	2-#5 CONT.	#3 @ 36" O.C.

2 TYPICAL SECTION C-1

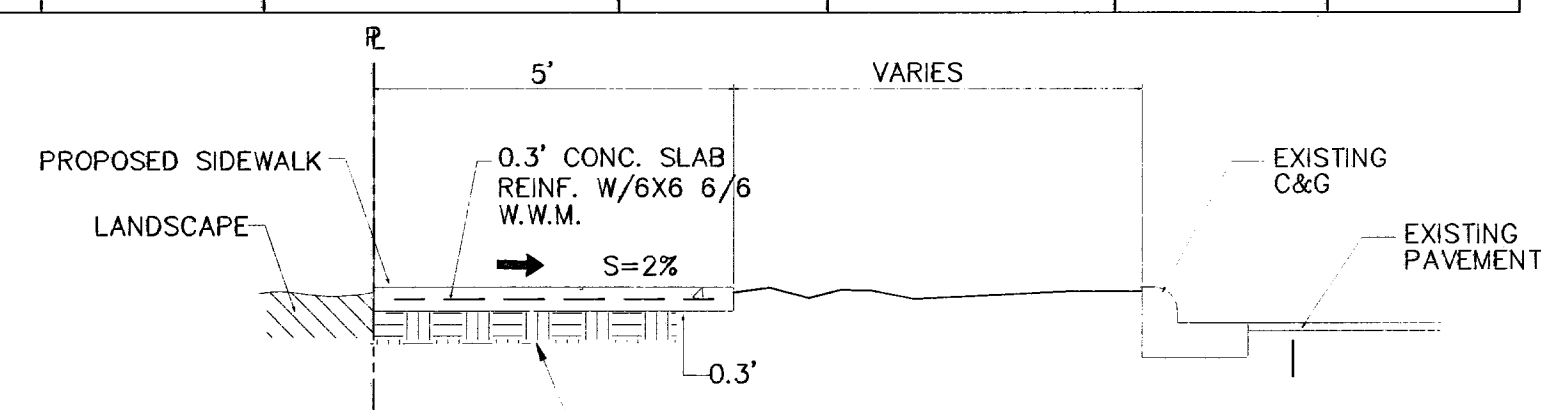
WATERSHED AREAS 100 YEARS FREQUENCY $Q_{rate} = CIA$

DRAINAGE AREA No.	DRAINAGE AREA (AC.)	DESIGN STORM INTENSITY	TIME OF CONCENTRATION	RUNOFF COEFF.(C)	Q (CFS)
WS-1	0.778	3.7 in/hr	21 MIN.	0.95	2.73
WS-2	0.6736	3.7 in/hr	21 MIN.	0.95	2.73
WS-3	1.87	3.3 in/hr	23 MIN.	0.95	5.86
SUB-TOTAL					11.32 (DIANJOU PLACE)
SUB-TOTAL					9.49 (MESA DEL CASTILLO UNIT 3)
SUB-TOTAL					18.08 TOTAL FOR VIANNEY WAY

STORM SEWER CALCULATIONS USING MANNING FORMULA $Q_{cap} = a X 1.486 X R^{2/3} X S^{1/2}$

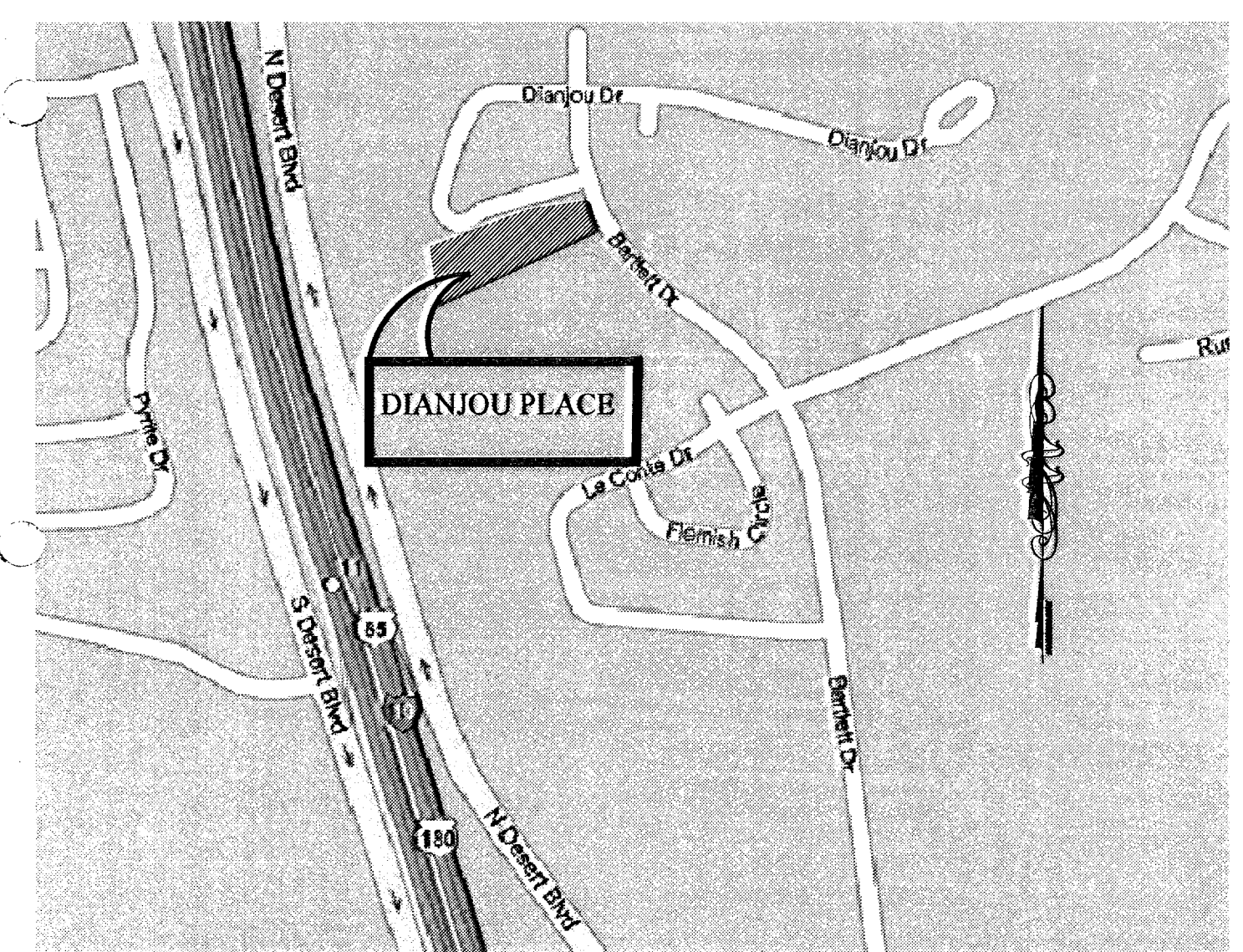
a (area-SF)	n coeff	R = a/p hydraulic radius p= wetted perimeter	R 2/3	S 1/2 Slope	Q_{rate} (req'd) cfs	Q_{rate} (prov) cfs
3.1416	0.013	0.5	0.6299	0.0141	18.08	22.62

24" Ø PIPE



- 3 TYPICAL SIDEWALK C-1 NOT TO SCALE
- LANDSCAPE: 0.3' CONC. SLAB REINF. W/6X6 6/6 W.W.M. S=2% EXISTING PAVEMENT
- 90% COMPACTION FOR NON-COHESIVE 85% FOR COHESIVE
- SIDEWALK:
- 1.- CONCRETE SHALL BE 3000 P.S.I. MIN.
 - 2.- DUMMY JOINT REQUIRED AT 10' O.C. FOR CURB & GUTTER AND 5' O.C. FOR SIDEWALK.
 - 3.- EXPANSION MATERIAL REQUIRED AT CURB RETURNS. WITH 1/2" PREMOLDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.
 - 4.- EXPANSION JOINTS REQUIRED AT 50' O.C. WHEN FORMING FOR CURBS.

LOCATION MAP SCALE 1"=600'



BENCHMARK
EXIST. CITY MON. @ INTERSECTION OF BARTLETT DR. & DIANJOU DR. ELEVATION 3830.24

FLOOD ZONE DESIGNATION
THIS PROPERTY LIES IN ZONE "C", AS DESIGNATED BY THE F.I.A. FLOOD INSURANCE RATE MAP, COMMUNITY PANEL No. 480214 0021 D, DATED, JANUARY 03,1997, CITY OF EL PASO, EL PASO COUNTY.

BEFORE YOU DIG - CALL

EL PASO ELECTRIC COMPANY 1-800-344-8378
AT & T TELEPHONE 1-800-545-6005
TEXAS GAS SERVICE 1-800-344-8377
EMERGENCY HOT LINE 1-562-8411/562-2003
HORIZON MUNICIPAL UTILITY DISTRICT 1-800-545-6005
TIME WARNER COMMUNICATIONS 1-800-344-8378
TEXAS EXCAVATION SAFETY SYSTEM 1-800-344-8377

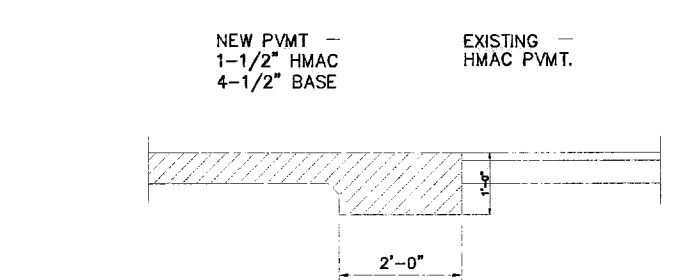
LINE	BEARING	LENGTH
L1	N15°39'59"W	30.00
L2	N62°09'12"E	126.68
L3	N27°27'29"E	68.11
L4	N62°09'12"E	128.56
L5	S15°19'42"E	30.00
L6	S02°54'44"W	30.00
L7	S02°54'44"W	6.54
L8	S15°19'42"E	37.63
L9	S15°19'42"E	37.63
L10	N57°43'38"E	3.50
L11	N62°09'12"E	13.92
L12	S15°19'42"E	37.63
L13	S15°19'42"E	37.63
L14	N57°43'38"E	3.50
L15	N62°09'12"E	19.28

4 CURB & GUTTER C-1 NTS

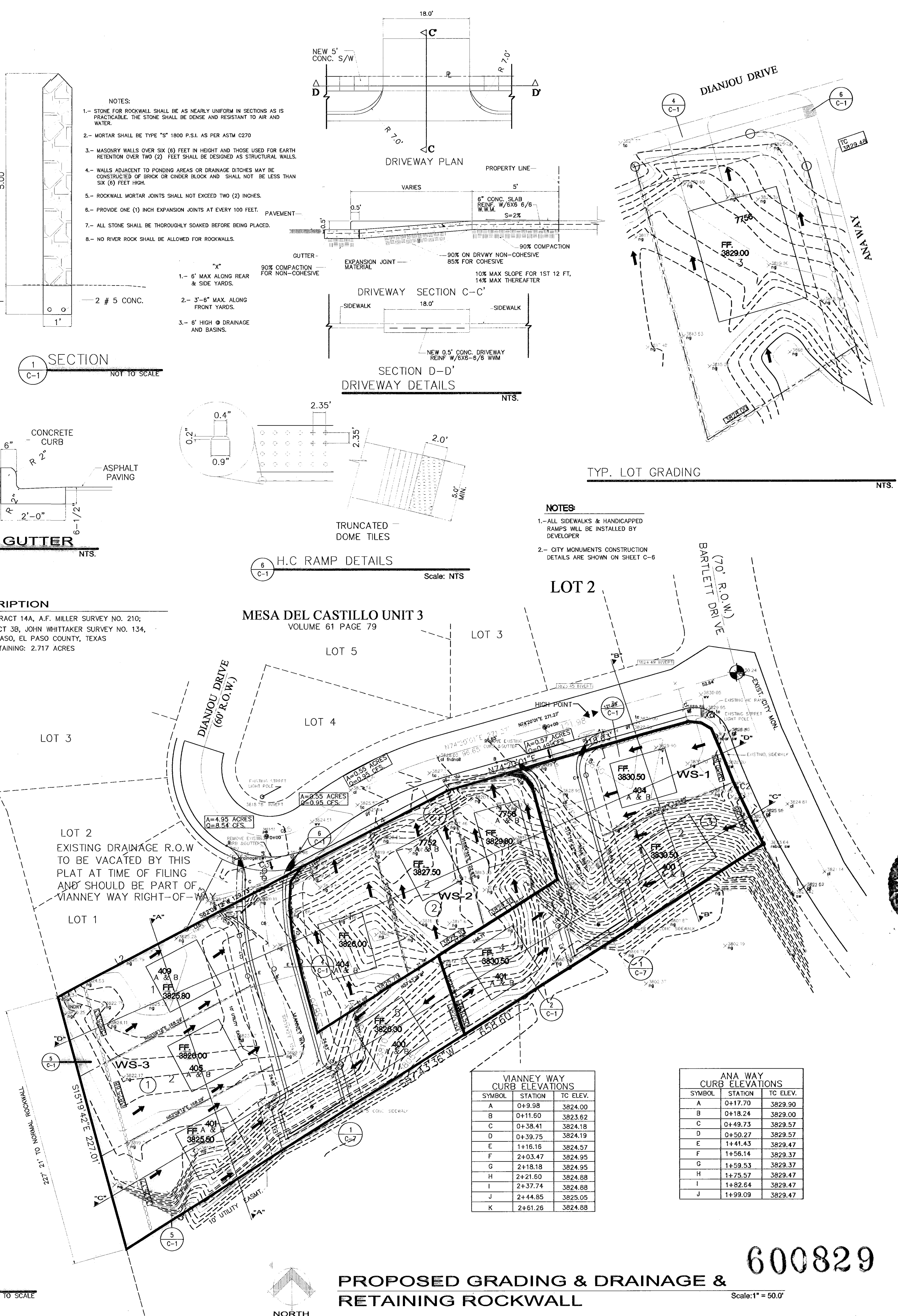
LEGAL DESCRIPTION
BEING A PORTION OF TRACT 14A, A.F. MILLER SURVEY NO. 210; AND A PORTION OF TRACT 3B, JOHN WHITTAKER SURVEY NO. 134, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 2.717 ACRES

CURVE	LENGTH	RADIUS	CHORD	TANGENT	CHORD BEARING	DELTA
C1	29.83	20.00	27.14	18.48	N62°55'4"W	85°28'10"
C2	102.75	769.89	102.87	51.45	S24°01'13"E	7°38'47"
C3	66.87	90.00	83.54	47.16	N89°48'18"E	55°18'21"
C4	124.41	312.85	123.59	63.04	S62°56'29"W	22°47'05"
C5	43.32	60.00	42.38	22.85	N72°13'50"E	41°21'48"
C6	79.59	250.00	78.25	40.13	S06°12'29"E	181°4'26"
C7	42.47	769.89	42.46	21.24	S21°46'38"E	3°09'37"
C8	60.28	769.89	60.26	30.16	S25°36'01"E	4°29'10"
C9	31.30	20.00	28.20	19.88	S29°30'09"W	89°39'43"
C10	15.08	8.08	12.99	10.91	S68°48'03"E	106°56'42"
C11	12.75	10.00	11.90	7.41	N21°11'52"E	73°03'18"
C12	31.53	20.00	28.37	20.12	N60°29'50"W	90°20'17"
C13	21.19	20.00	20.21	11.71	S31°48'13"W	60°41'59"
C14	66.20	226.00	65.96	33.34	S06°56'14"E	16°46'55"
C15	15.08	8.08	12.99	10.91	S68°48'03"E	106°56'42"
C16	12.75	10.00	11.90	7.41	N21°11'52"E	73°03'18"
C17	36.04	274.00	36.01	18.04	S11°33'39"E	73°02'09"
C18	38.42	20.00	32.78	28.59	N62°49'11"W	110°03'14"

LOT	BLOCK	AREA
1	1	11,737 SQ.FT.
2	1	11,780 SQ.FT.
3	1	12,227 SQ.FT.
1	2	11,335 SQ.FT.
2	2	9,476 SQ.FT.
3	2	8,058 SQ.FT.
4	2	8,094 SQ.FT.
5	2	8,390 SQ.FT.
1	3	7,959 SQ.FT.
2	3	9,004 SQ.FT.



7 SECTION PVMT JOINT DETAIL C-1 NOT TO SCALE



SYMBOL	STATION	TC ELEV.
A	0+9.98	3824.00
B	0+11.60	3829.62
C	0+38.41	3824.18
D	0+39.75	3824.19
E	1+16.16	3824.57
F	2+03.47	3824.95
G	2+18.18	3824.95
H	2+21.60	3824.88
I	2+37.74	3824.88
J	2+44.85	3825.05
K	2+61.26	3824.88

SYMBOL	STATION	TC ELEV.
A	0+17.70	3829.90
B	0+18.24	3829.00
C	0+49.73	3829.57
D	0+50.27	3829.57
E	1+41.43	3829.47
F	1+56.14	3829.37
G	1+59.53	3829.37
H	1+75.27	3829.47
I	1+82.64	3828.47
J	1+99.09	3829.47

PROPOSED GRADING & DRAINAGE & RETAINING ROCKWALL Scale: 1"=50.0'

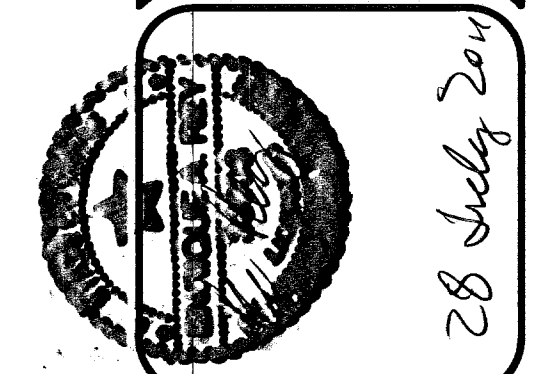
600829

03-29-10
05-05-10
07-21-10
01-28-11
02-11-11

PROJECT ARCHITECT: REY ENGINEERING
PROJECT NUMBER: 600829
DRAWING BY: J. B. HICKS
DATE: 10-17-09
PLS

OWNER: X X X X X

PROJECT NAME: DIANJOU PLACE IMPROVEMENTS
EL PASO, TEXAS
DIANJOU DRIVE



REY ENGINEERING
CONSULTING ENGINEERING, SURVEYING AND PLANNING
1135 BOB HITCHCOCK BLVD., EL PASO, TEXAS 79926
TEXAS FIRM REGISTRATION NUMBER: F-33468

SHEET TITLE: PROPOSED GRADING AND DRAINAGE
C-1
SHT. 02 OF 15

MESA DEL CASTILLO UNIT 3
VOLUME 61 PAGE 79

LOT 2

BARTLETT DRIVE
(70' R.O.W.)

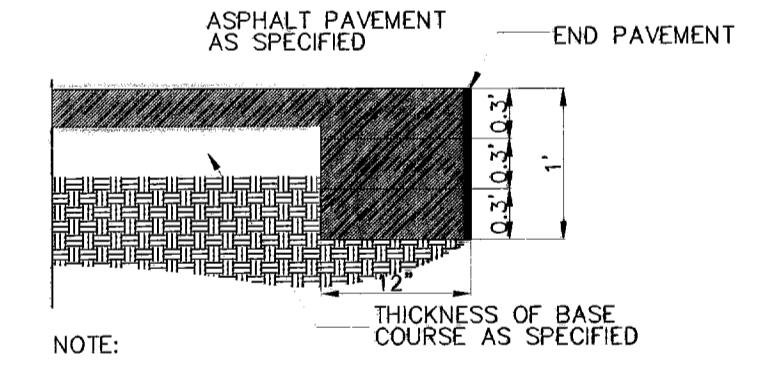
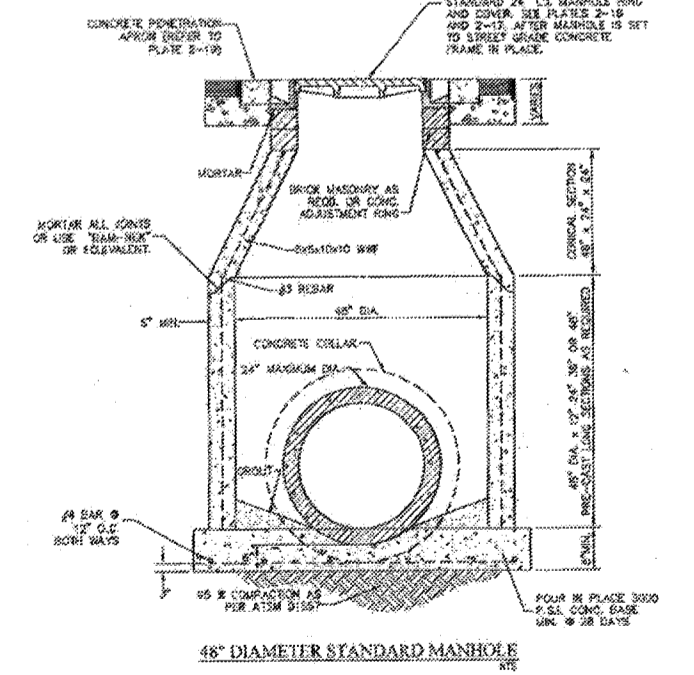
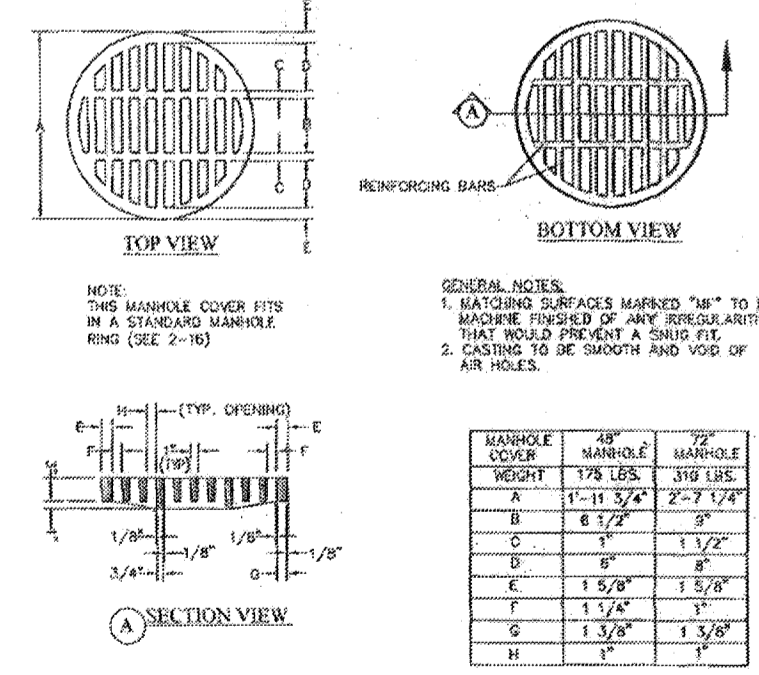
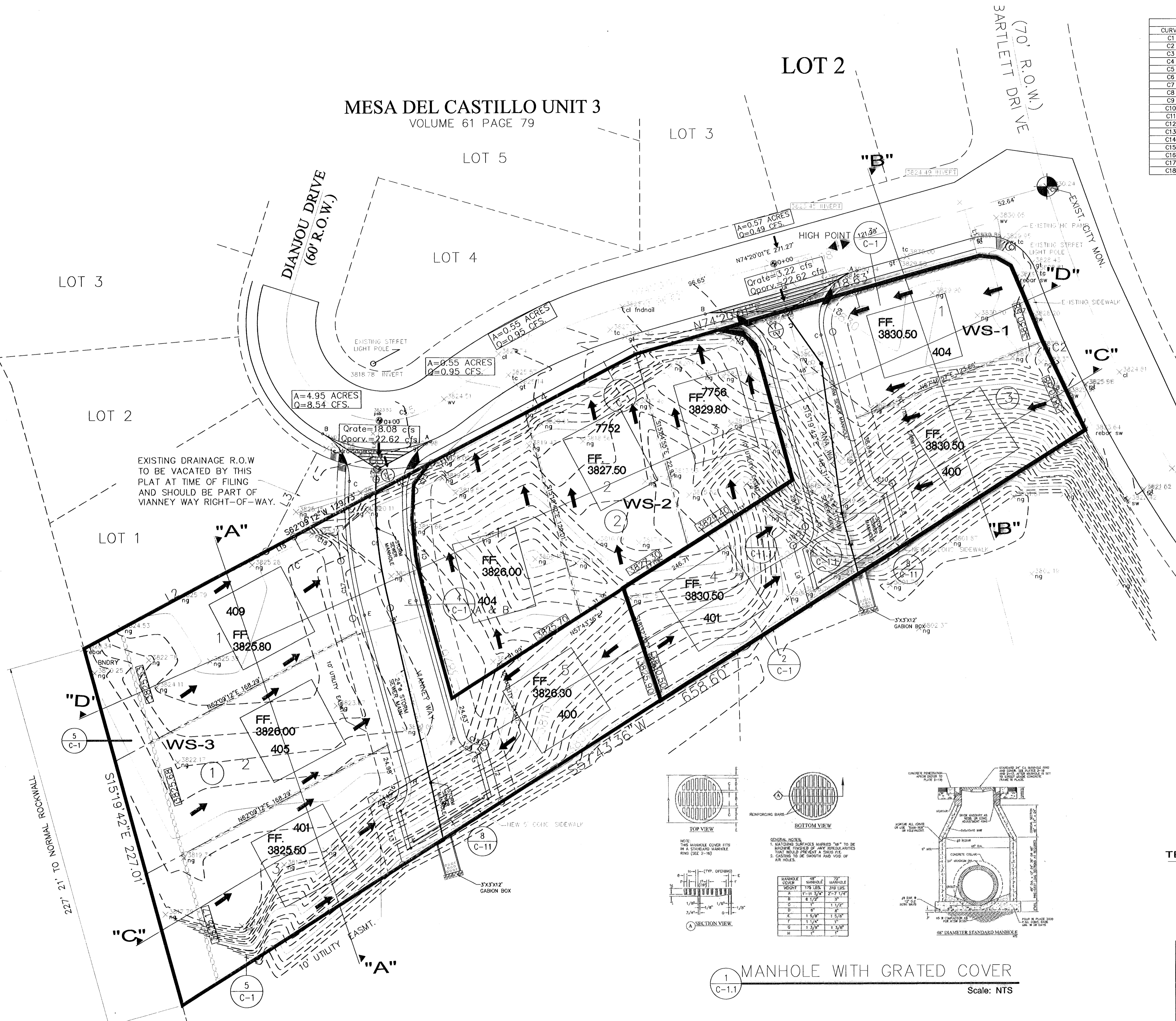
DIANJOU DRIVE
(60' R.O.W.)

CURVE	LENGTH	RADIUS	CHORD	TANGENT	CHORD BEARING	DELTA
C1	29.83	20.00	27.14	18.48	N62°55'54"W	85°28'10"
C2	102.75	769.89	102.87	51.45	S24°01'13"E	7°38'47"
C3	86.87	90.00	83.54	47.16	N89°48'18"E	55°18'21"
C4	124.41	312.85	123.59	63.04	S62°56'29"W	22°47'09"
C5	43.32	60.00	42.38	22.65	N72°13'50"E	41°21'48"
C6	79.59	250.00	79.25	40.13	S06°12'29"E	18°14'26"
C7	42.47	769.89	42.46	21.24	S21°48'38"E	3°09'37"
C8	60.28	769.89	60.26	30.16	S23°38'01"E	4°29'10"
C9	31.30	20.00	28.20	19.88	S29°30'09"W	89°39'43"
C10	15.08	8.08	12.99	10.91	S68°48'03"E	106°56'42"
C11	12.75	10.00	11.90	7.41	N21°11'57"E	73°03'18"
C12	31.53	20.00	28.37	20.12	N60°29'50"W	90°20'17"
C13	21.19	20.00	20.21	11.71	S31°48'13"W	60°41'59"
C14	66.20	226.00	63.96	33.34	S08°51'14"E	18°48'55"
C15	15.08	8.08	12.99	10.91	S68°48'03"E	106°56'42"
C16	12.75	10.00	11.90	7.41	N21°11'57"E	73°03'18"
C17	36.04	274.00	36.01	18.04	S11°33'38"E	7°32'08"
C18	38.42	20.00	32.78	28.59	N62°49'11"W	110°03'14"

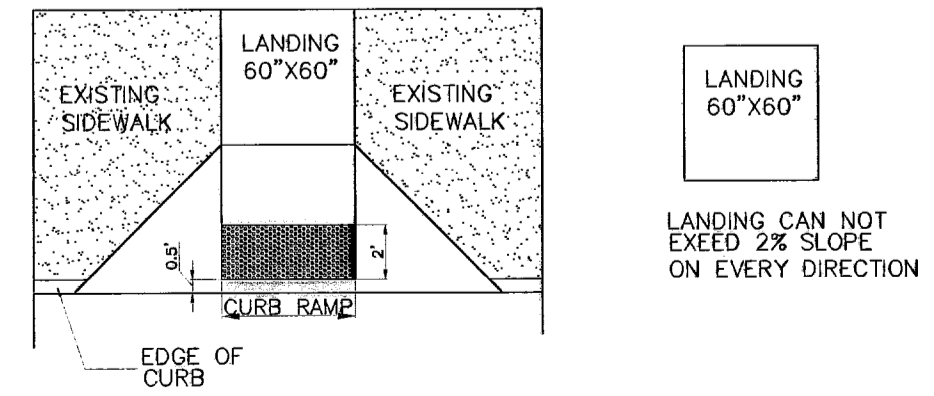
LINE	BEARING	LENGTH
L1	N15°39'59"W	30.00
L2	N62°09'12"E	126.68
L3	N27°27'29"E	68.11
L4	N62°09'12"E	123.56
L5	S15°19'42"E	30.00
L6	S02°54'44"W	30.00
L7	S02°54'44"W	6.54
L8	S15°19'42"E	37.63
L9	S15°19'42"E	37.63
L10	N57°43'36"E	3.50
L11	N62°09'12"E	13.92
L12	S15°19'42"E	37.63
L13	S15°19'42"E	37.63
L14	N57°43'36"E	3.50
L15	N62°09'12"E	19.28

SYMBOL	STATION	TC ELEV.
A	0+17.70	3829.90
B	0+18.24	3829.00
C	0+49.73	3829.57
D	0+50.27	3829.57
E	1+41.43	3829.47
F	1+56.14	3829.37
G	1+59.53	3829.37
H	1+75.57	3829.47
I	1+82.64	3829.47
J	1+99.09	3829.47

SYMBOL	STATION	TC ELEV.
A	0+9.98	3824.00
B	0+11.60	3823.62
C	0+38.41	3824.18
D	0+39.75	3824.19
E	1+16.16	3824.57
F	2+03.47	3824.95
G	2+18.18	3824.95
H	2+21.60	3824.88
I	2+37.74	3824.88
J	2+44.85	3825.05
K	2+61.26	3824.88

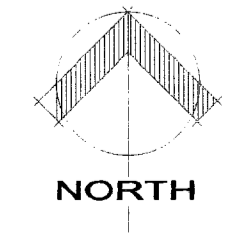


TERMINUS OF STREET N.T.S.



LANDING 60"x60"
LANDING CAN NOT EXCEED 2% SLOPE ON EVERY DIRECTION

WIDTH: THE MINIMUM WIDTH OR CURB RAMP SHALL BE 60" EXCLUSIVE OF FLARED SIDES, IN AREAS WHERE SPACE DOES NOT PERMIT A 60" WIDTH, THE MINIMUM WIDTH SHALL BE NOT LESS THAN 36" AS DETERMINED BY THE OWNER. (NOTE: LANDING CAN NOT EXCEED 2% SLOPE ON EVERY DIRECTION) SEE FIGURE.



DRAINAGE PLAN

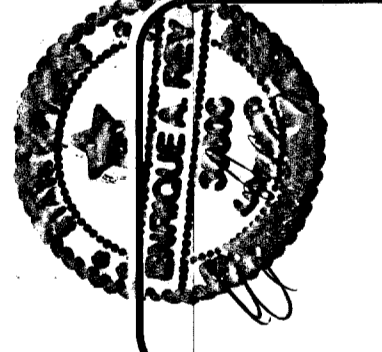
Scale: 1" = 30.0'

REVISIONS
03-29-10
05-05-10
07-21-10
01-28-11
02-11-11

PROJECT ARCHITECT:	PROJECT NUMBER:	DRAWING BY:	DATE:	FILE:
			10-17-09	

OWNER
X X X X X

PROJECT NAME
DIANJOU PLACE IMPROVEMENTS
DIANJOU DRIVE
EL PASO, TEXAS



28 July 2010

REY ENGINEERING
CONSULTING ENGINEERING SURVEYING LAND PLANNING
1324 BOB WITT CIRCLE SUITE 100 EL PASO, TEXAS 79906
TEXAS FIRM REGISTRATION NUMBER
E-3468

SHEET TITLE
DRAINAGE PLAN AND DETAILS

C-1.1

SHT. 03 OF 15

600829

STORM WATER POLLUTION CONTROL PLAN

PROJECT NAME & LIMITS
DIANJOU PLACE
GRADING & RETAINING ROCKWALL

PROJECT DESCRIPTION
PROP. RETAINING ROCKWALL
& GRADING

EXISTING CONDITIONS
EMPTY LOT

MAJOR SOIL DISTURBING ACTIVITIES
GRADING

TOTAL PROJECT AREA
2.717 ACRES

TOTAL AREA TO BE DISTURBED
2.717 ACRES

WEIGHTED RUNOFF COEFFICIENT
(AFTER CONSTRUCTION)
0.95

EXISTING CONDITION OF SOIL & VEGETATIVE COVER
AND % OF EXISTING VEGETATIVE COVER:
BARE SOIL
3% VEGETATION

NAME OF RECEIVING WATERS
RIO GRANDE

EROSION AND SEDIMENT CONTROL

SOIL STABILIZATION PRACTICES

TEMPORARY SEEDING
PERMANENT PLANTING, BODDING OR WEEDING
MULCHING
SOIL RETENTION BLANKET
BUFFER ZONES
PRESERVATION OF NATURAL RESOURCES

OTHER:
WATERING

STRUCTURAL PRACTICES

X SILT FENCES
HAY BALES
ROCK BERMS
DIVERSION INTERCEPTOR OR PERIMETER DIKES
DIVERSION INTERCEPTOR OR PERIMETER SWALES
DIVERSION DIKE AND SWALE COMBINATIONS
PIPE SLOPE DRAINS
CONCRETE FLUMES
ROCK BEDDING AT CONSTRUCTION EXIT
TIMBER MATTING AT CONSTRUCTION EXIT
CHANNEL LINERS
SEDIMENT TRAPS
SEDIMENT BASINS
STORM MUD SEDIMENT TRAP
STONE OUTLET STRUCTURES
CURBS AND OUTLETS
STORM DRAINS
VELOCITY CONTROL DEVICES
VEGETATED SWALES & NATURAL DEPRESSIONS

OTHER:

NARRATIVE - SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT ACTIVITIES)
SILT FENCE
CONSTRUCTION ENTRANCE
GRADING

OWNER CERTIFICATION
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED INFORMATION SUBMITTED BASED ON MY HONOR OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINES AND IMPROVEMENT FOR KNOWING VIOLATIONS.

OWNER SIGNED _____ **DATE** _____

OWNER SIGNED _____ **DATE** _____

TITLE _____ **DATE** _____

GENERAL CONTRACTOR CERTIFICATION
I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT THAT AUTHORIZES STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNED _____ **COMPANY** _____

NAME _____ **ADDRESS** _____

TITLE _____ **TELEPHONE** _____

DATE _____

SUB-CONTRACTOR CERTIFICATION
I CERTIFY UNDER PENALTY OF LAW THAT I WILL COORDINATE, EITHER THROUGH THE GENERAL CONTRACTOR, OWNER, OR DIRECTLY WITH THE CONTRACTOR(S) AND/OR SUB-CONTRACTOR(S) IDENTIFIED IN THE POLLUTION PREVENTION PLAN HAVING RESPONSIBILITY FOR IMPLEMENTING STORM WATER CONTROL MEASURES TO MINIMIZE ANY IMPACT MY ACTIONS MAY HAVE ON THE EFFECTIVENESS OF THESE STORM WATER CONTROL MEASURES.

SIGNED _____ **SIGNED** _____

NAME _____ **NAME** _____

TITLE _____ **TITLE** _____

COMPANY _____ **COMPANY** _____

ADDRESS _____ **ADDRESS** _____

TELEPHONE _____ **TELEPHONE** _____

DATE _____ **DATE** _____

WASTE MANAGEMENT PRACTICES CONTROLS

I. WASTE MATERIALS
ALL WASTE MATERIALS, INCLUDING CONSTRUCTION DEBRIS, SHALL BE COLLECTED AND STORED IN A SECURELY LOCKED METAL DUMPSTER. NO CONSTRUCTION WASTE MATERIAL SHALL BE BURIED ON SITE. THE TRUCK DUMPSTER SHALL COMPLY WITH OPERANCE 82.001 (EXPOSURE & REMOVAL OF WASTE MATERIALS DURING CONSTRUCTION). THE DUMPSTER SHALL BE EMPTIED AS NECESSARY OR AS REQUIRED BY ORDINANCE 844 (SOLID WASTE MANAGEMENT) AND THE TRASH SHALL BE HAULED TO A LICENSED LANDFILL.

II. HAZARDOUS WASTE
AT A MINIMUM ANY PRODUCT IN THE FOLLOWING CATEGORIES SHALL BE CONSIDERED HAZARDOUS: PAINT, ACIDS FOR CLEANING MASONRY SURFACES, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SPILL STABILIZATION, CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION AND CONTACT THE FIRE DEPARTMENT AND TRICO.

III. SANITARY WASTE
ALL SANITARY WASTE SHALL BE COLLECTED FROM THE CONSTRUCTION PORTABLE UNITS AS NECESSARY OR AS REQUIRED, CHAPTER 108 (BUILDING CODE), BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR. ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

IV. SPILL PREVENTION
THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURES OF MATERIALS TO STORM WATER RUNOFF:

V. GOOD HOUSEKEEPING
A. STORE ONLY ENOUGH PRODUCTS REQUIRED TO DO THE JOB.
B. NEATLY STORE MATERIALS ON-SITE IN AN ORDERLY MANNER.
C. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINERS.
D. DO NOT MIX SUBSTANCES WITH ONE ANOTHER, UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER.
E. USE ENTIRE CONTENTS OF A PRODUCT BEFORE DISPOSING OF THE CONTAINER.
F. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL.

VI. HAZARDOUS PRODUCTS
PRACTICES USED TO REDUCE RISK:
A. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER IF AT ALL POSSIBLE.
B. RETAIN ORIGINAL LABELS, PRODUCT INFORMATION OR MATERIAL SAFETY DATA SHEETS (MSDS).
C. DISPOSE SURPLUS PRODUCT IN ACCORDANCE WITH MANUFACTURER'S OR LOCAL + STATE RECOMMENDED METHODS.

VI. PETROLEUM PRODUCTS
ALL ON-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS, WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON-SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

VII. SPILL CONTROL PRACTICES
A. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES.
B. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE.
C. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
D. SPILL AREA SHALL BE WELL-VENTILATED AND APPROPRIATE CLOTHING WILL BE WORN.
E. ANY SPILL SHALL BE REPORTED TO THE APPROPRIATE GOVERNMENTAL AGENCY.
F. MEASURES SHALL BE TAKEN TO PREVENT A SPILL FROM REOCCURRING.

IX. MAINTENANCE AND INSPECTION PROCEDURES
ALL POLLUTION PREVENTION MEASURES SHALL BE INSPECTED AT LEAST ONCE A MONTH OR WITHIN 24 HOURS PRIOR TO ANTICIPATED STORM EVENT AND FOLLOWING A STORM EVENT OF 0.5 INCHES OR MORE. INSPECTION IN FINAL STABILIZED AREAS OR DURING AND PERIOD PROCEDURES SHALL BE DONE & RETAINED ALONG WITH THE EQUIP.

X. REMAINS
DISPOSAL AREAS, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, WATERBODY OR STREAMBED. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. ALL WATERSHEDS SHALL BE CLEANED AS SOON AS PRACTICABLE ON TEMPORARY EMBANKMENT, TEMPORARY BRIDGE MATTING, FALSE WORK, PILING DEBRIS OR OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT A PART OF THE FINISHED WORK.

XI. OFF-SITE VEHICLE TRACKING
IN ADDITION TO THE STABILIZED CONSTRUCTION ENTRANCES, THE FOLLOWING MEASURES SHALL BE OBSERVED DURING CONSTRUCTION:
HAUL ROADS SHALL BE DAMPENED FOR DUST CONTROL.
LOADED HAUL TRUCKS SHALL BE COVERED WITH TARP/AULIN.
EXCESS DIRT ON ROAD SHALL BE REMOVED DAILY.
STABILIZED CONSTRUCTION ENTRANCE

OTHER:

LOT AREA

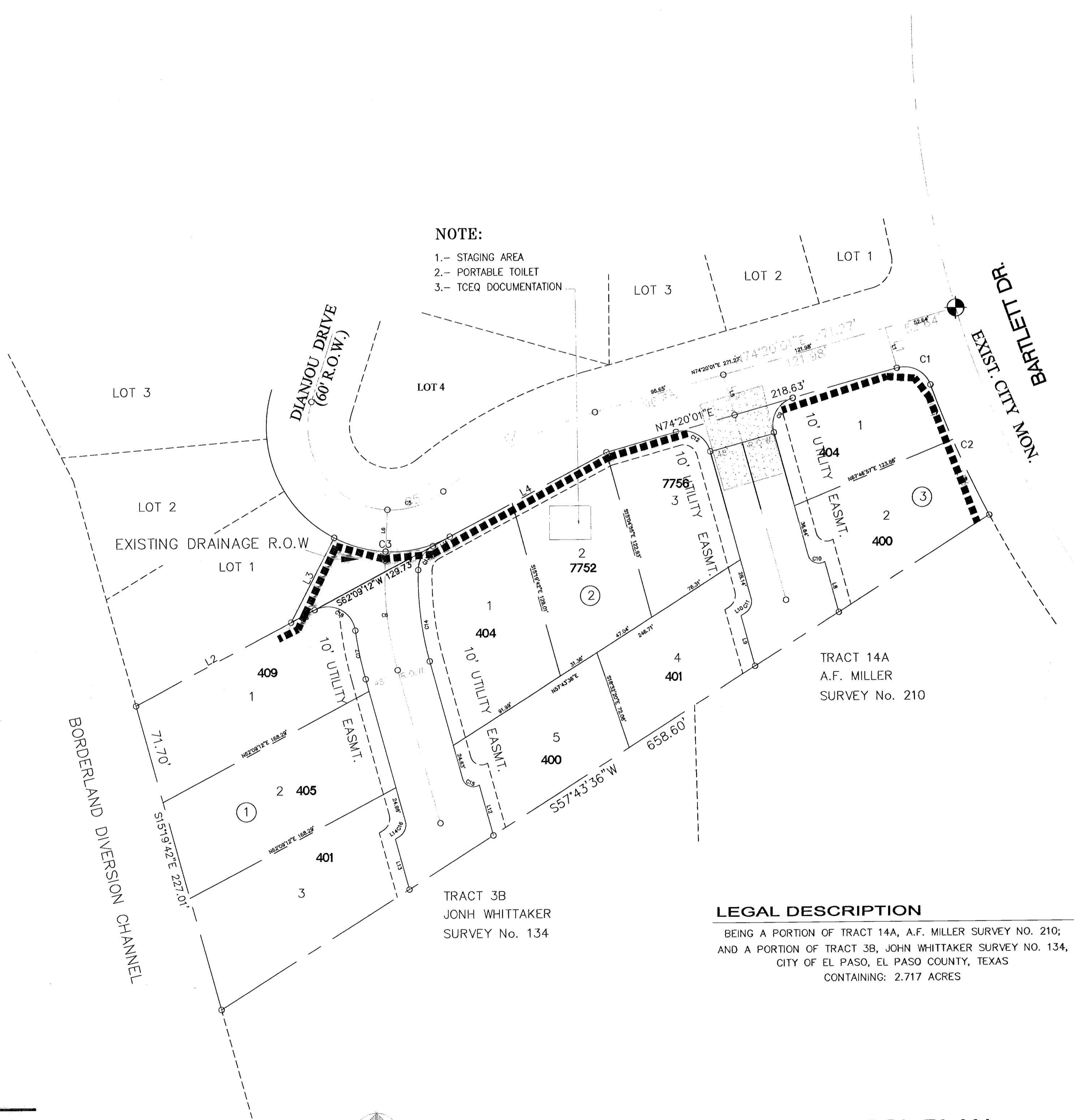
LOT	BLOCK	AREA
1	1	11,737 SQ.FT.
2	1	11,780 SQ.FT.
3	1	12,227 SQ.FT.
1	2	11,335 SQ.FT.
2	2	9,476 SQ.FT.
3	2	8,058 SQ.FT.
4	2	8,094 SQ.FT.
5	2	8,390 SQ.FT.
1	3	7,959 SQ.FT.
2	3	9,004 SQ.FT.

LINE TABLE

LINE	BEARING	LENGTH
L1	N15°39'59"W	30.00
L2	N62°09'12"E	128.58
L3	N22°27'29"E	68.11
L4	N62°09'12"E	128.58
L5	S15°19'42"E	30.00
L6	S02°54'44"W	30.00
L7	S02°54'44"W	6.54
L8	S15°19'42"E	37.63
L9	S15°19'42"E	37.63
L10	N57°43'36"E	3.50
L11	N62°09'12"E	13.92
L12	S15°19'42"E	37.63
L13	S15°19'42"E	37.63
L14	N27°43'36"E	3.50
L15	N62°09'12"E	19.28

CURVE TABLE

CURVE	LENGTH	RADIUS	CHORD	TANGENT	CHORD BEARING	DELTA
C1	29.83	20.00	27.14	18.48	N62°55'54"W	85°28'10"
C2	102.75	769.89	102.67	51.45	S24°01'13"E	7°38'47"
C3	88.87	90.00	83.54	47.16	N89°48'18"E	53°18'21"
C4	124.41	312.85	123.59	63.04	S62°58'29"W	22°47'05"
C5	43.32	60.00	42.38	22.65	N72°13'50"E	41°21'48"
C6	79.59	250.00	79.25	40.13	S06°12'23"E	18°14'26"
C7	42.47	769.89	42.46	21.24	S21°46'39"E	3°09'37"
C8	60.28	769.89	60.26	30.16	S23°38'01"E	4°29'10"
C9	31.30	20.00	29.20	19.88	S29°20'09"W	89°39'43"
C10	15.08	8.08	12.99	10.91	S68°48'03"E	106°56'42"
C11	12.75	10.00	11.90	7.41	N21°11'57"E	73°03'18"
C12	31.53	20.00	28.37	20.12	N60°29'50"W	90°20'17"
C13	21.19	20.00	20.21	11.71	S31°48'13"W	60°41'59"
C14	66.20	228.00	65.96	33.34	S08°58'14"E	18°48'53"
C15	15.08	8.08	12.99	10.91	S68°48'03"E	106°56'42"
C16	12.75	10.00	11.90	7.41	N21°11'57"E	73°03'18"
C17	36.04	274.00	36.01	18.04	S11°33'38"E	7°32'08"
C18	38.42	20.00	32.78	28.59	N62°49'11"W	110°03'14"



NOTE:

- 1.- STAGING AREA
- 2.- PORTABLE TOILET
- 3.- TCEQ DOCUMENTATION

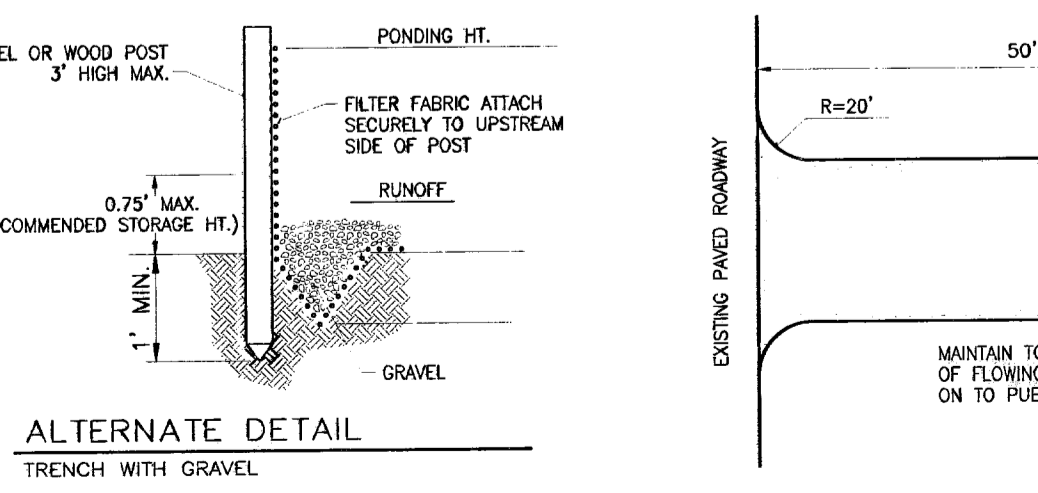
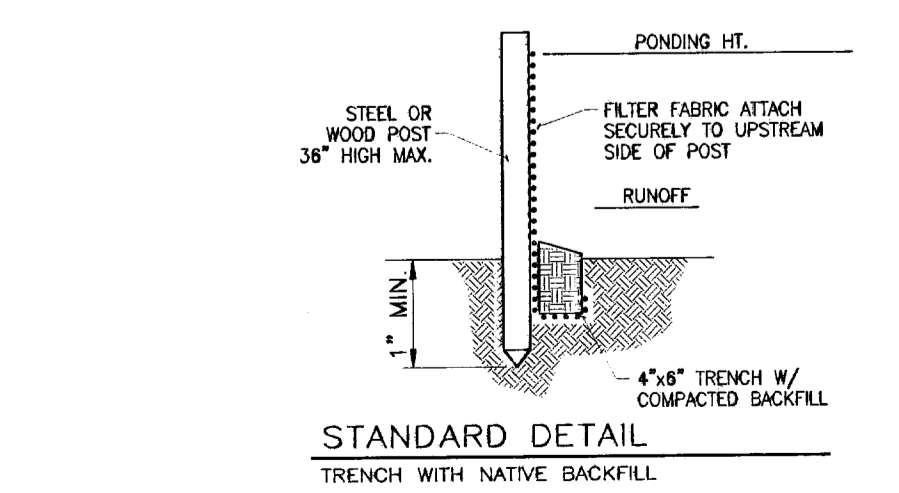
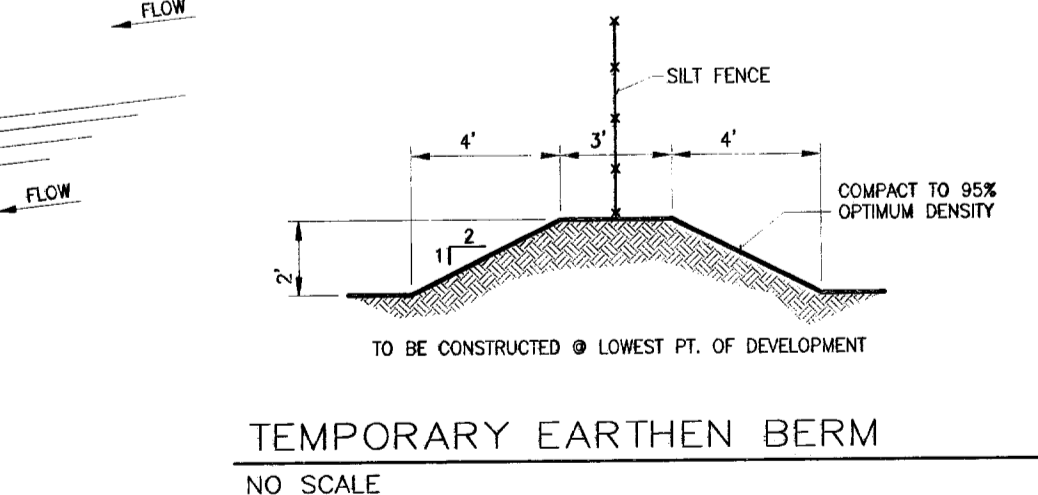
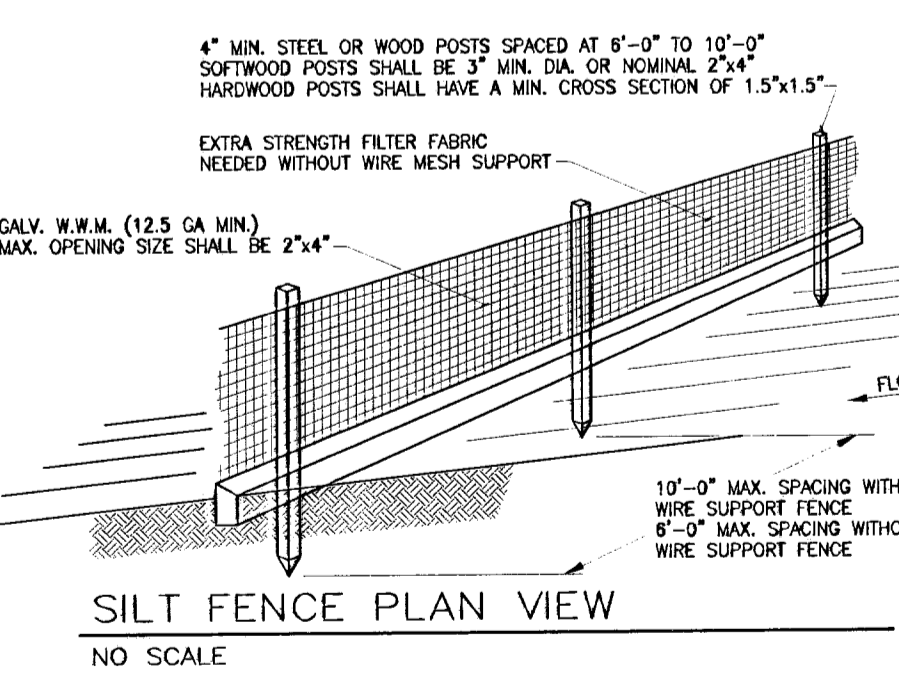
EROSION AND DUST CONTROL PLAN

EROSION AND SEDIMENT CONTROLS TEMPORARY STABILIZATION
A TEMPORARY BERM OR SILT FENCE (SEE DETAIL) WILL BE PLACED ALONG THE PERIMETER OF THE PROPERTY DURING CONSTRUCTION.

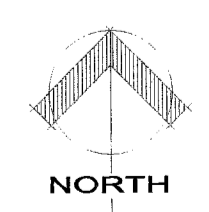
OFFSITE VEHICLE TRACKING
A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEPED DAILY TO REMOVE ANY EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE SITE.

LEGEND

- FINISHED GRADE
- EXISTING GRADE
- SILT CONTROL FENCE
- CONST. ENTRANCE



STORM WATER POLLUTION CONTROL PLAN



Scale: 1" = 50.0'

LEGAL DESCRIPTION

BEING A PORTION OF TRACT 14A, A.F. MILLER SURVEY No. 210; AND A PORTION OF TRACT 3B, JOHN WHITTAKER SURVEY No. 134, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: 2.717 ACRES

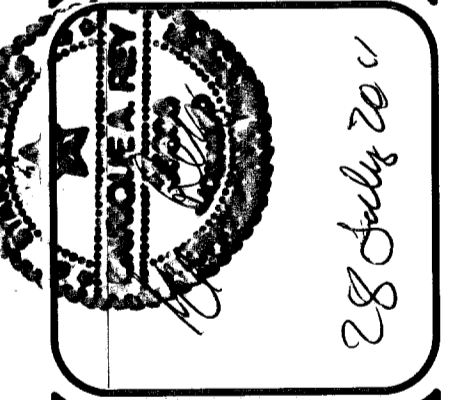
REVISIONS

03-29-10	
05-05-10	
07-21-10	
01-28-11	

OWNER
PROJECT NAME
DIANJOU PLACE IMPROVEMENTS
EL PASO, TEXAS

PROJECT NAME
DIANJOU PLACE IMPROVEMENTS
EL PASO, TEXAS

OWNER
PROJECT NAME
DIANJOU PLACE IMPROVEMENTS
EL PASO, TEXAS

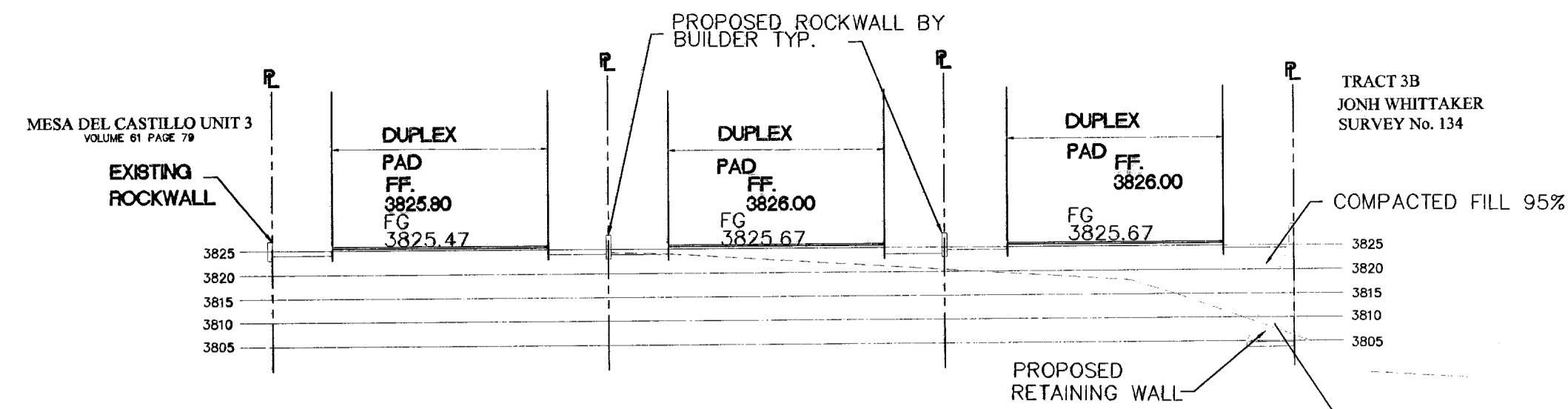


REY ENGINEERING
CONSULTING ENGINEERS - SURVEYING - LAND PLANNING
10488 BOB WITTE BLVD., EL PASO, TEXAS 79936
TEL: (915) 562-1866 FAX: (915) 562-1867
TEXAS FIRM REGISTRATION NUMBER
E-3348

SHEET TITLE
POLLUTION CONTROL PLAN

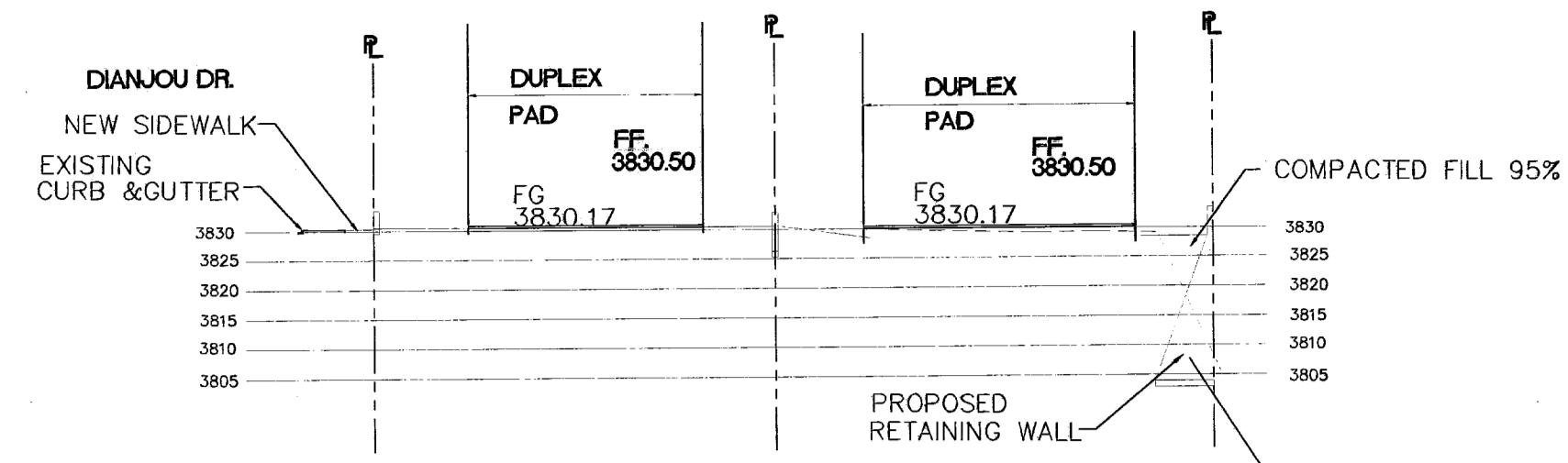
C-2
SHT. 04 OF 15

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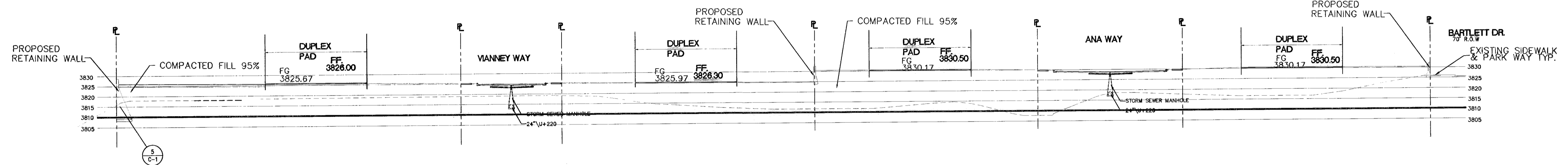
SECTION "A-A"

Horizontal Scale: 1" = 30.0'
Vertical Scale: 1" = 30.0'



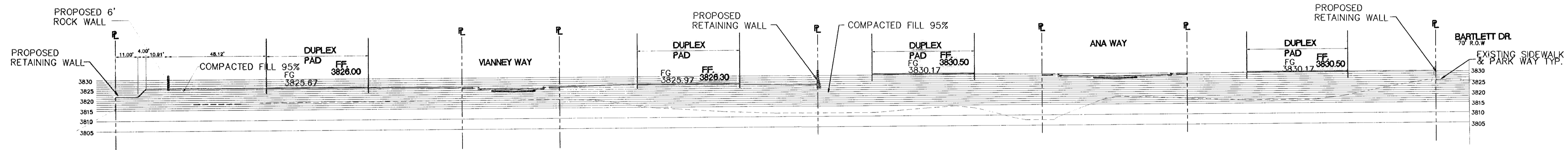
SECTION "B-B"

Horizontal Scale: 1" = 30.0'
Vertical Scale: 1" = 30.0'



SECTION "C-C"

Horizontal Scale: 1" = 30.0'
Vertical Scale: 1" = 30.0'

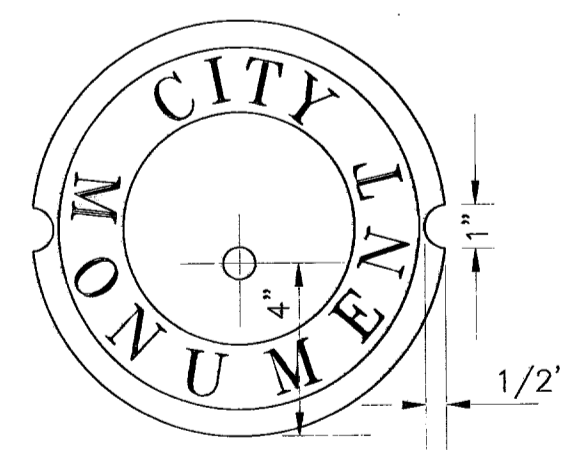
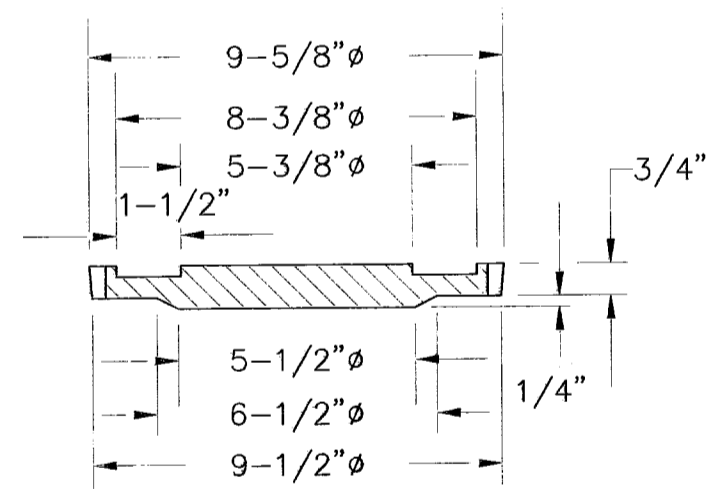


SECTION "C-C"

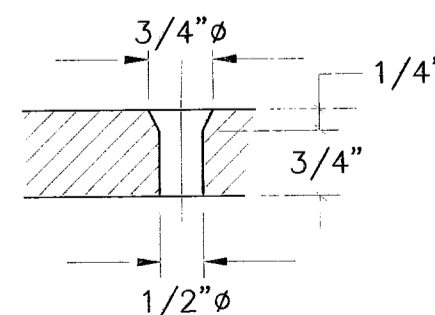
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Vertical Scale: 1" = 30.0'

NOTES:

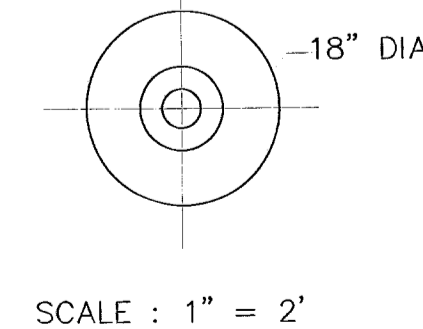
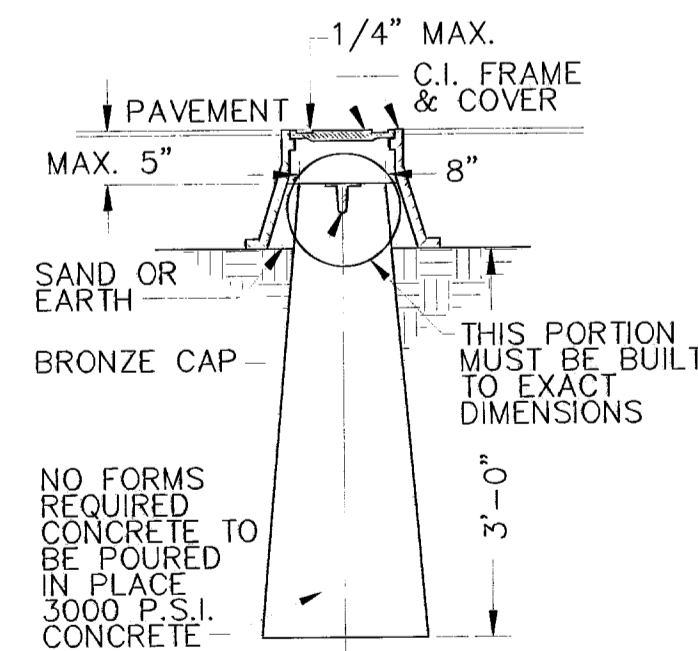
ROCKWALLS WITH FINISHED GRADES ELEVATIONS LARGER THAN 2' SHALL BE BUILT AS RETAINING WALLS



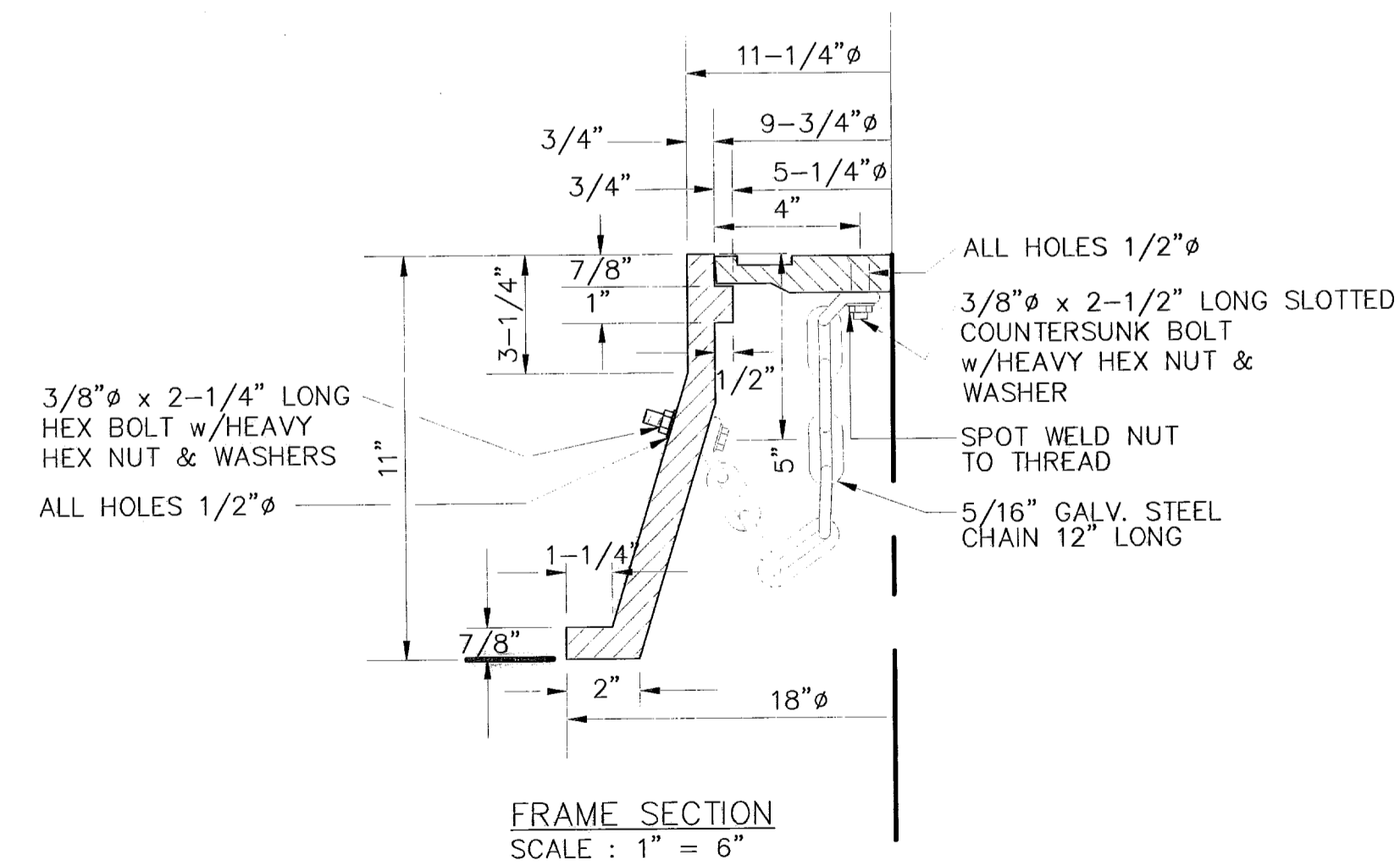
COVER
SCALE: 1" = 6"



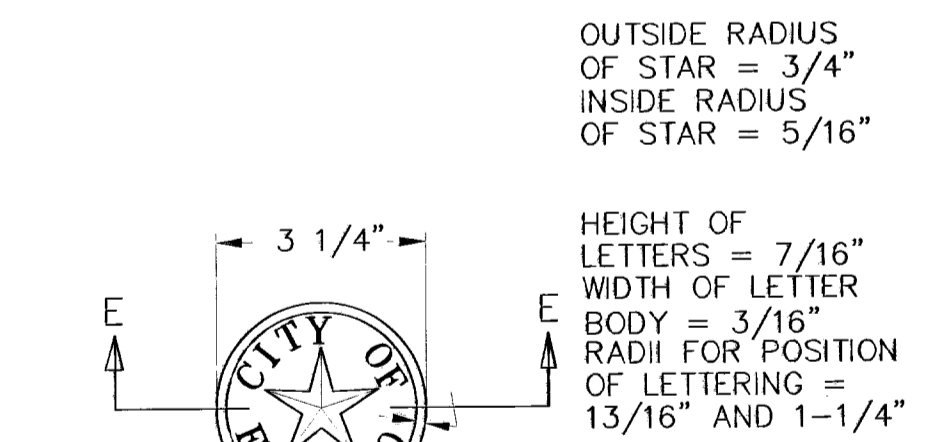
COUNTERSUNK DETAIL
SCALE: 1" = 3"



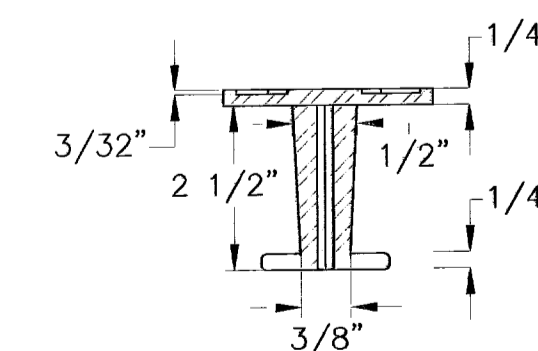
SCALE: 1" = 2"



FRAME SECTION
SCALE: 1" = 6"



EMBOSS STAR, RING AND LETTERS TO HEIGHT OF 3/32"
BRONZE MONUMENT CAP
SCALE: 1" = 4"



SECTION E-E

SIZE AND CONSTRUCTION:

THE STANDARD CITY MONUMENT SHALL BE POURED-IN-PLACE CONCRETE CONE. EIGHT (8) INCHES MINIMUM DIAMETER AT THE TOP, EIGHTEEN (18) INCHES MINIMUM DIAMETER AT THE BOTTOM, THIRTY-SIX (36) INCHES MINIMUM IN DEPTH WITH THE MONUMENT CAP IN PLACE ON TOP. THE MONUMENT SHALL BE COVERED WITH A CAST IRON BOX AND COVER.

NUMBER AND LOCATIONS:

THE MONUMENTS SHALL BE INSTALLED WHERE SHOWN ON THE SUBDIVISION PLAT AS APPROVED BY THE CITY ENGINEER.

ANY MONUMENT MUST BE WITHIN THE LINE OF SIGHT OF ANY OTHER MONUMENT (2000 FEET MAXIMUM DISTANCE BETWEEN MONUMENTS). THE SIZE, TOPOGRAPHY AND LAYOUT OF THE SUBDIVISION SHALL GOVERN THE NUMBER OF MONUMENTS REQUIRED.

NO FEWER THAN TWO MONUMENTS SHALL BE PLACED IN A ONE STREET SUB-DIVISION.

AT LEAST ONE (1) MONUMENT SHALL BE PLACED ON EACH HORIZONTAL CURVE. TWO SHALL BE PLACED IF THE POINT OF INTERSECTION (P.I.) OF THE TANGENTS LEADING INTO THE CURVE FALLS OUTSIDE OF CITY RIGHT-OF-WAY. MONUMENTS SHALL BE INSTALLED SO THAT ALL FRONT PROPERTY CORNERS OF ALL LOTS IN THE SUBDIVISION ARE WITHIN LINE OF SIGHT OF A MONUMENT, OR WITHIN SIGHT OF LINE BETWEEN TWO ADJACENT MONUMENTS.

CITY MONUMENT DETAIL

REVISIONS	
03-29-10	
05-05-10	
07-21-10	
01-28-11	

PROJECT ARCHITECT	PROJECT NUMBER	DRAWING BY	DATE	FILE
			10-17-09	

OWNER
X X X X X

PROJECT NAME
DIANJOU PLACE IMPROVEMENTS
DIANJOU DRIVE
EL PASO, TEXAS

28 July 2011
lll

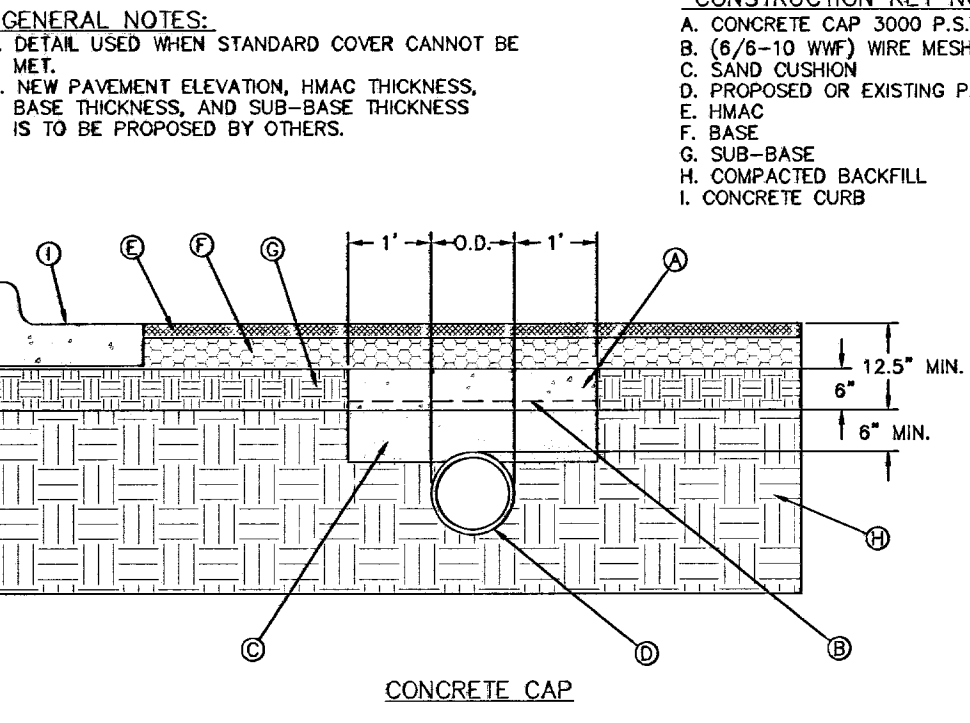
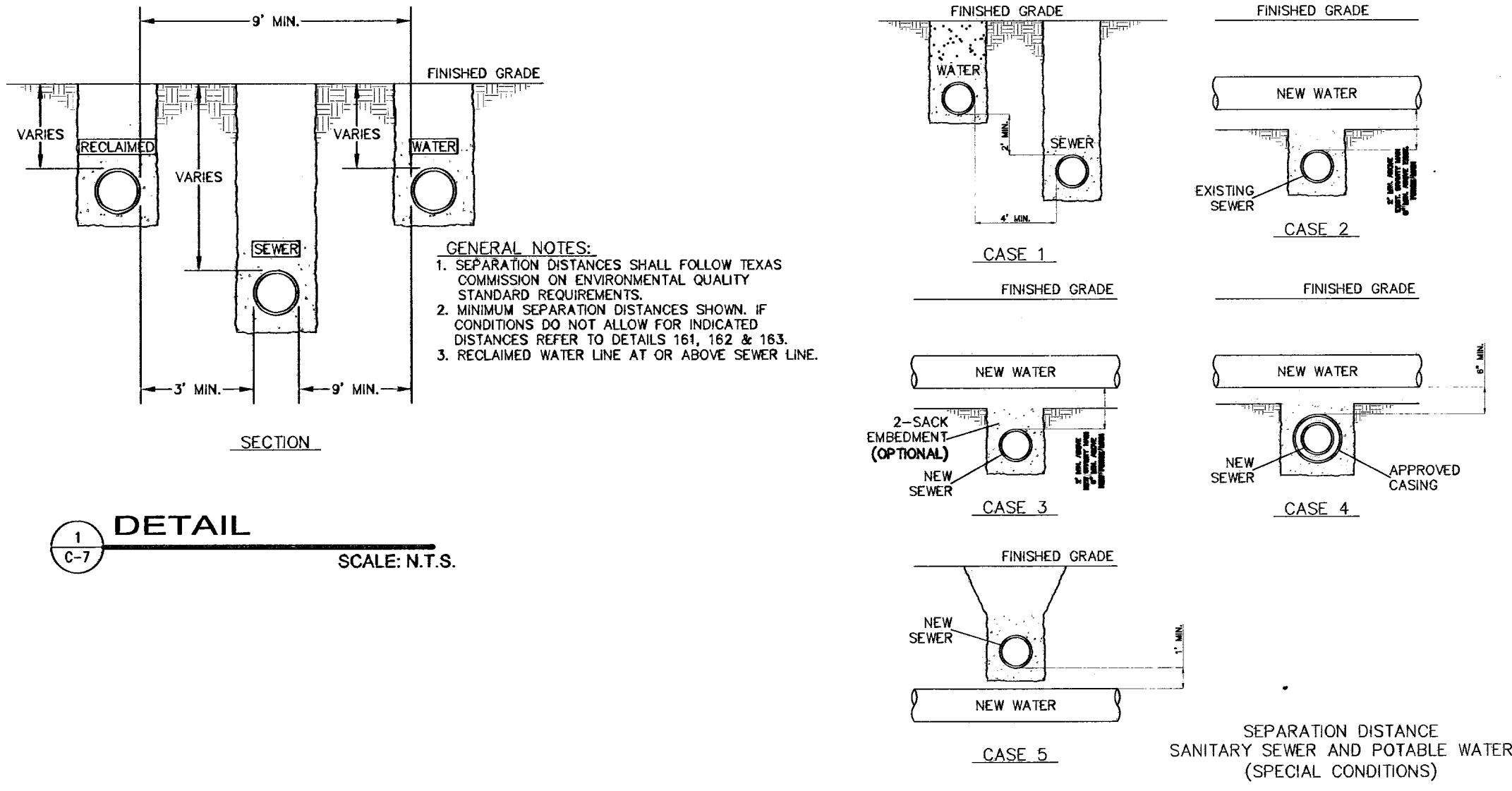
REY ENGINEERING
CONSULTING ENGINEERS
1000 W. UNIVERSITY BLVD., SUITE 1000
EL PASO, TEXAS 79906
(915) 306-1889
F-1368
TEXAS FIRM REGISTRATION NUMBER

SHEET TITLE
SECTIONS AND DETAILS

C-3

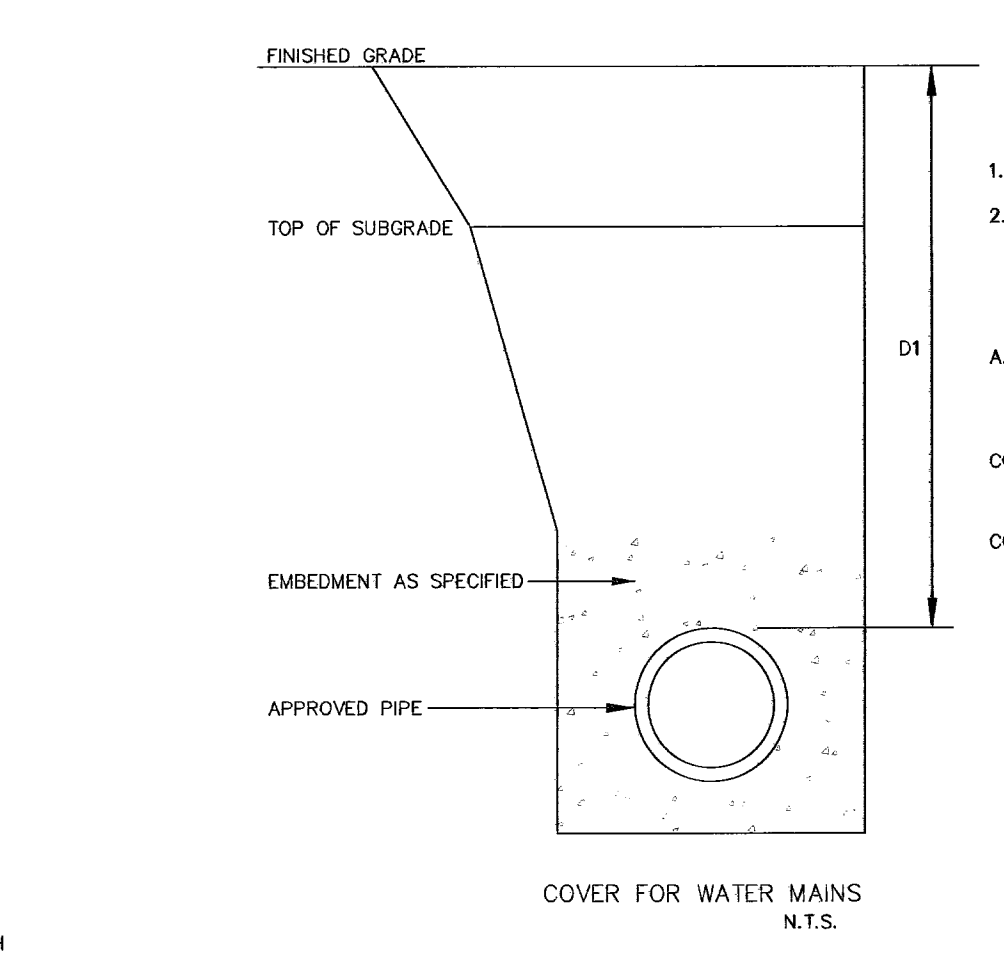
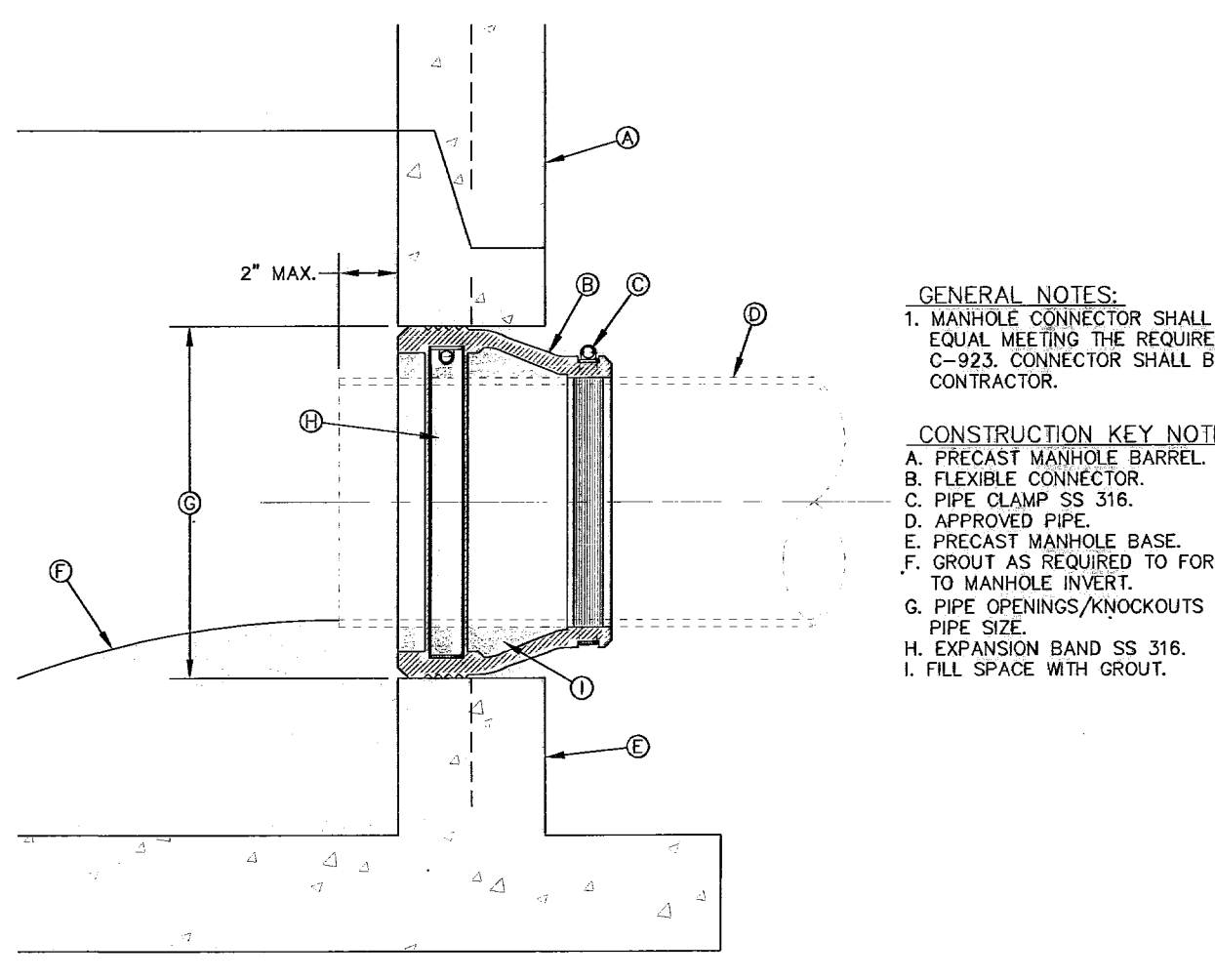
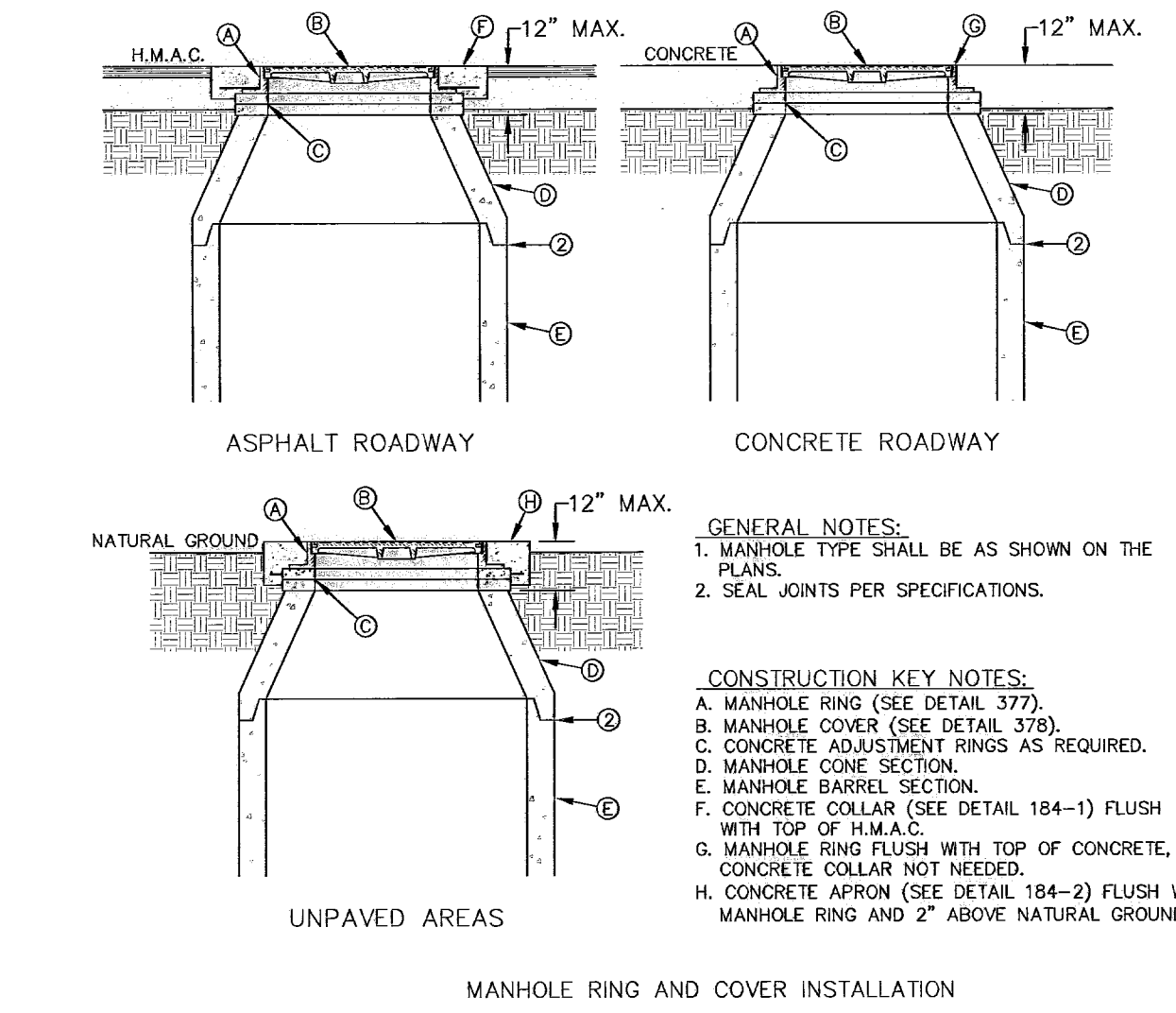
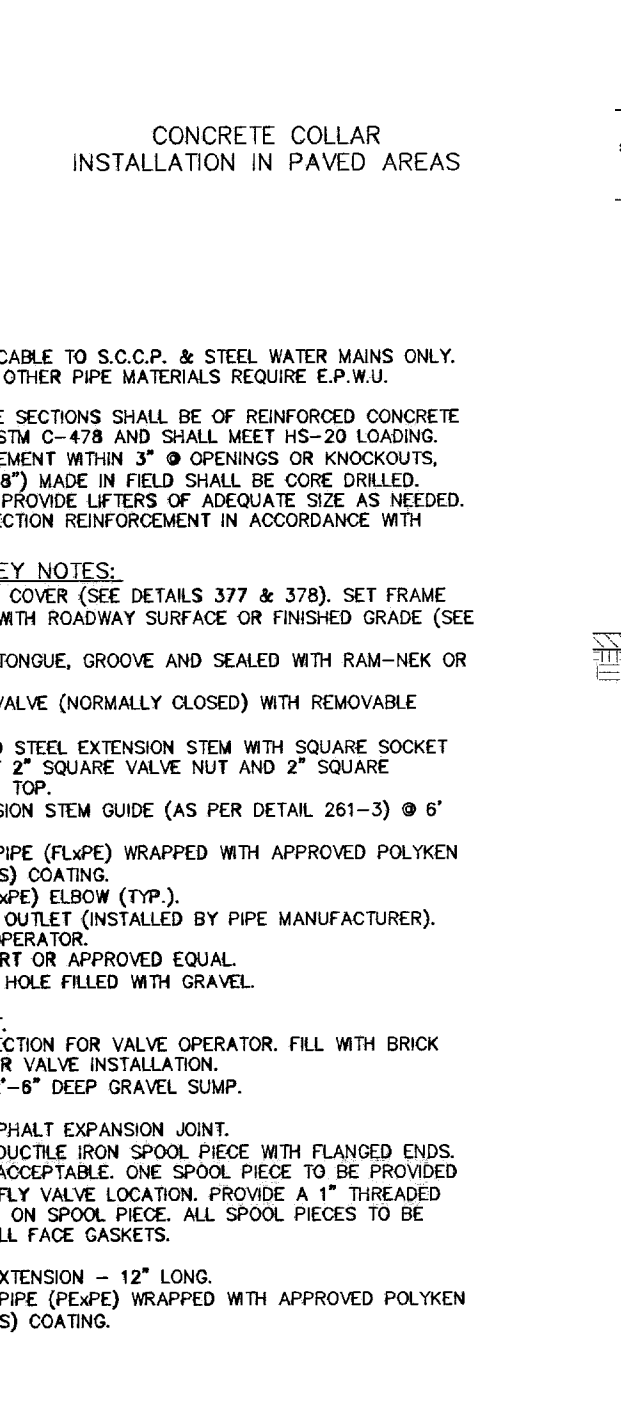
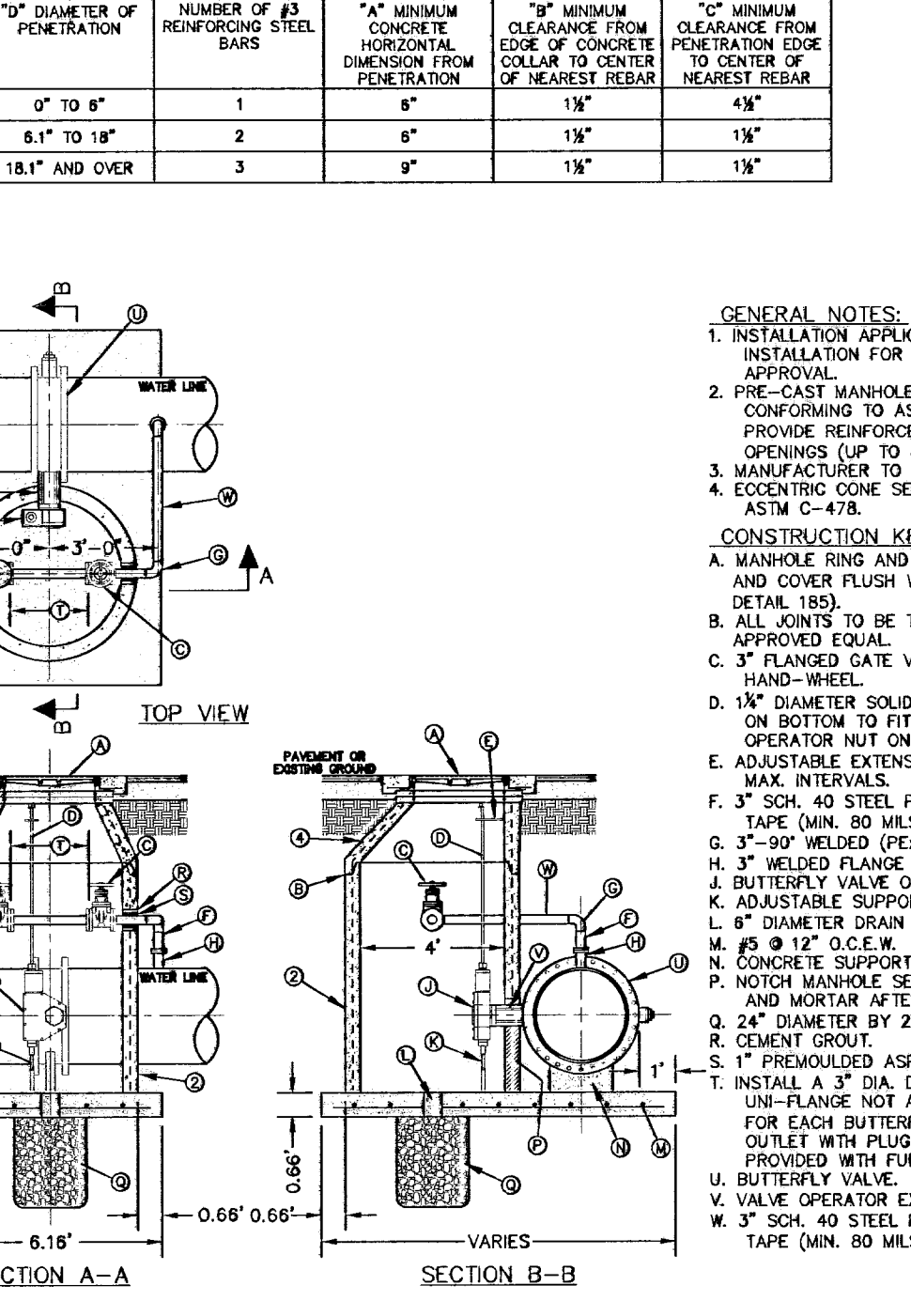
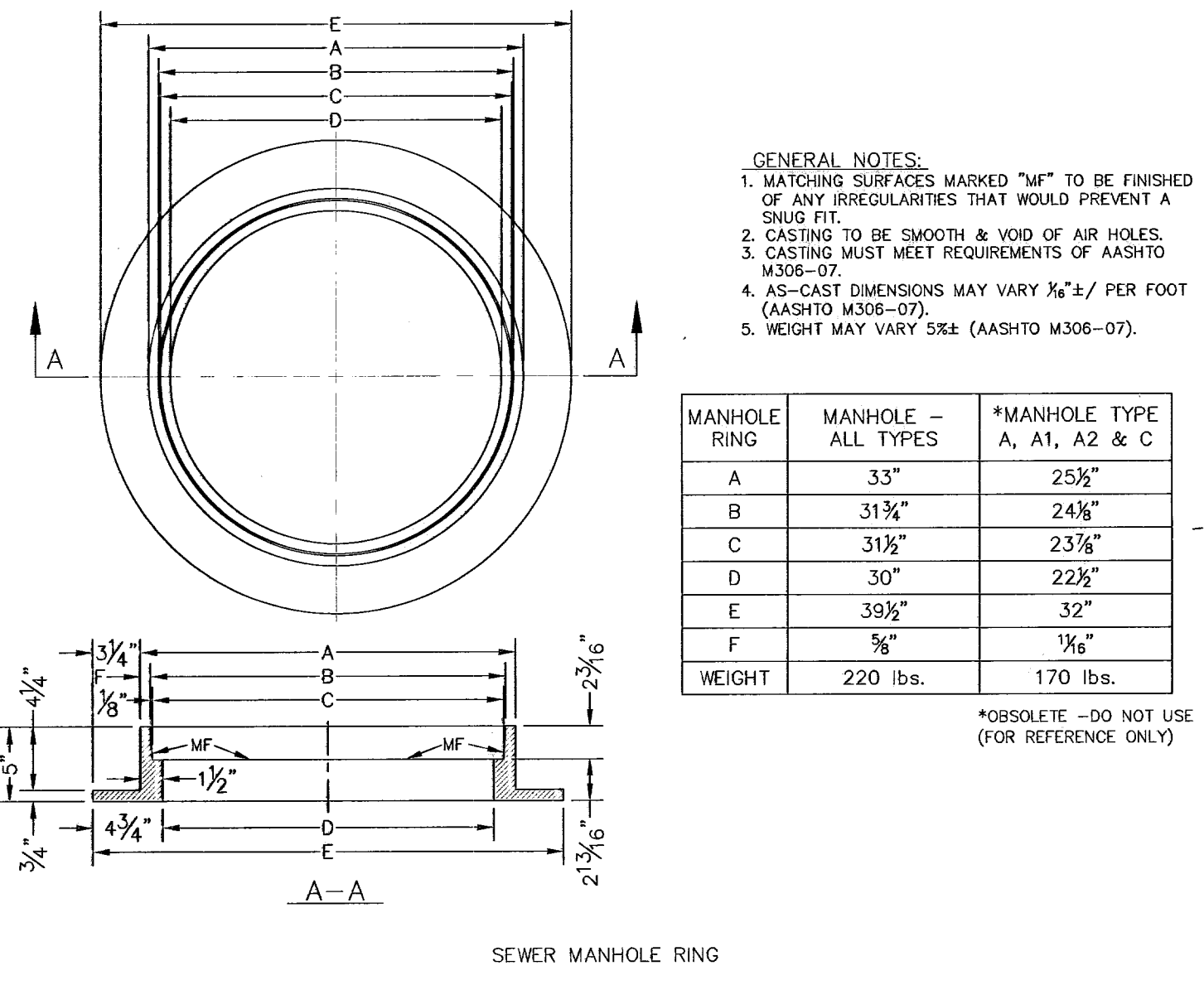
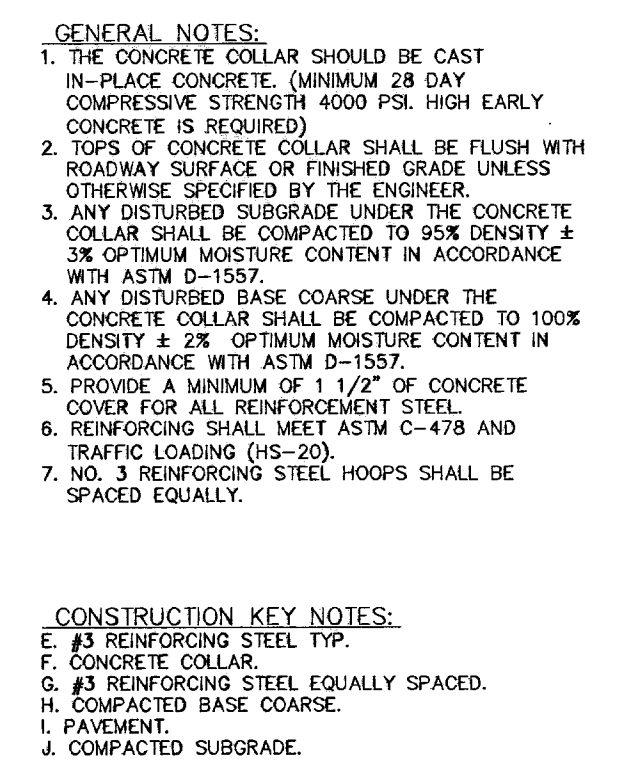
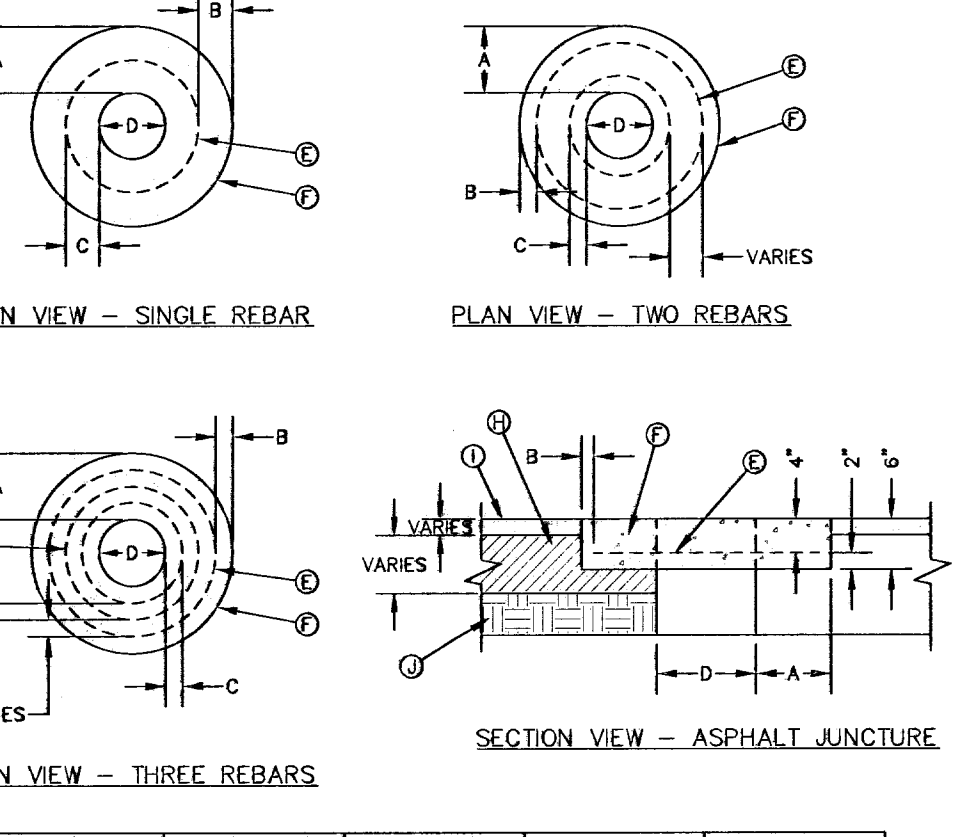
SHT. 05 OF 15

600829



DETAIL 2
SCALE: N.T.S.

CURVE	LENGTH	RADIUS	CHORD	TANGENT	CHORD BEARING	DELTA
C1	29.83	20.00	27.14	18.48	N62°55'54"W	85°28'10"
C2	102.75	769.89	102.67	51.45	S24°01'13"E	7°38'47"
C3	86.87	90.00	83.54	47.16	N89°48'18"E	55°18'21"
C4	124.41	312.85	123.59	63.04	S62°56'29"W	22°47'05"
C5	43.32	60.00	42.38	22.65	N72°13'50"E	41°21'48"
C6	79.59	250.00	79.25	40.13	S21°22'20"E	18°14'28"
C7	42.47	769.89	42.46	21.24	S21°46'38"E	3°09'37"
C8	60.28	769.89	60.26	30.16	S25°36'01"E	4°29'10"
C9	31.30	20.00	28.20	19.88	S29°30'09"W	89°39'43"
C10	15.08	8.08	12.99	10.91	S68°48'03"E	106°56'42"
C11	12.75	10.00	11.90	7.41	N21°11'57"E	73°03'18"
C12	31.53	20.00	28.37	20.12	N62°29'12"E	90°20'12"
C13	21.19	20.00	20.21	11.71	S31°48'13"W	60°41'59"
C14	66.20	226.00	65.96	33.34	S06°56'14"E	16°46'55"
C15	15.08	8.08	12.99	10.91	S68°48'03"E	106°56'42"
C16	12.75	10.00	11.90	7.41	N21°11'57"E	73°03'18"
C17	36.04	274.00	36.01	18.04	S11°33'38"E	7°32'08"
C18	38.42	20.00	32.78	28.59	N62°49'11"W	110°03'14"



GENERAL NOTES:
 1. REFER TO UTILITY DETAIL FOR PAVEMENT REPLACEMENT AND BACKFILL REQUIREMENTS.
 2. TRENCH SAFETY SYSTEMS SHALL BE USED WHEN TRENCH DEPTH EXCEEDS 5 FEET.

CONSTRUCTION KEY NOTES:
 A. COVER FOR WATER MAINS SHALL DEPEND ON THE PIPE SIZE AND THE FOLLOWING INSTALLATION CONDITIONS.
 CONDITION A - NORMAL LINE INSTALLATION, STREET AND DRAINAGE PROJECTS, WATERLINE RELOCATION
 CONDITION B - NEW SUBDIVISIONS, NON-PAVED AREA AND SHALL BE AS FOLLOWS.

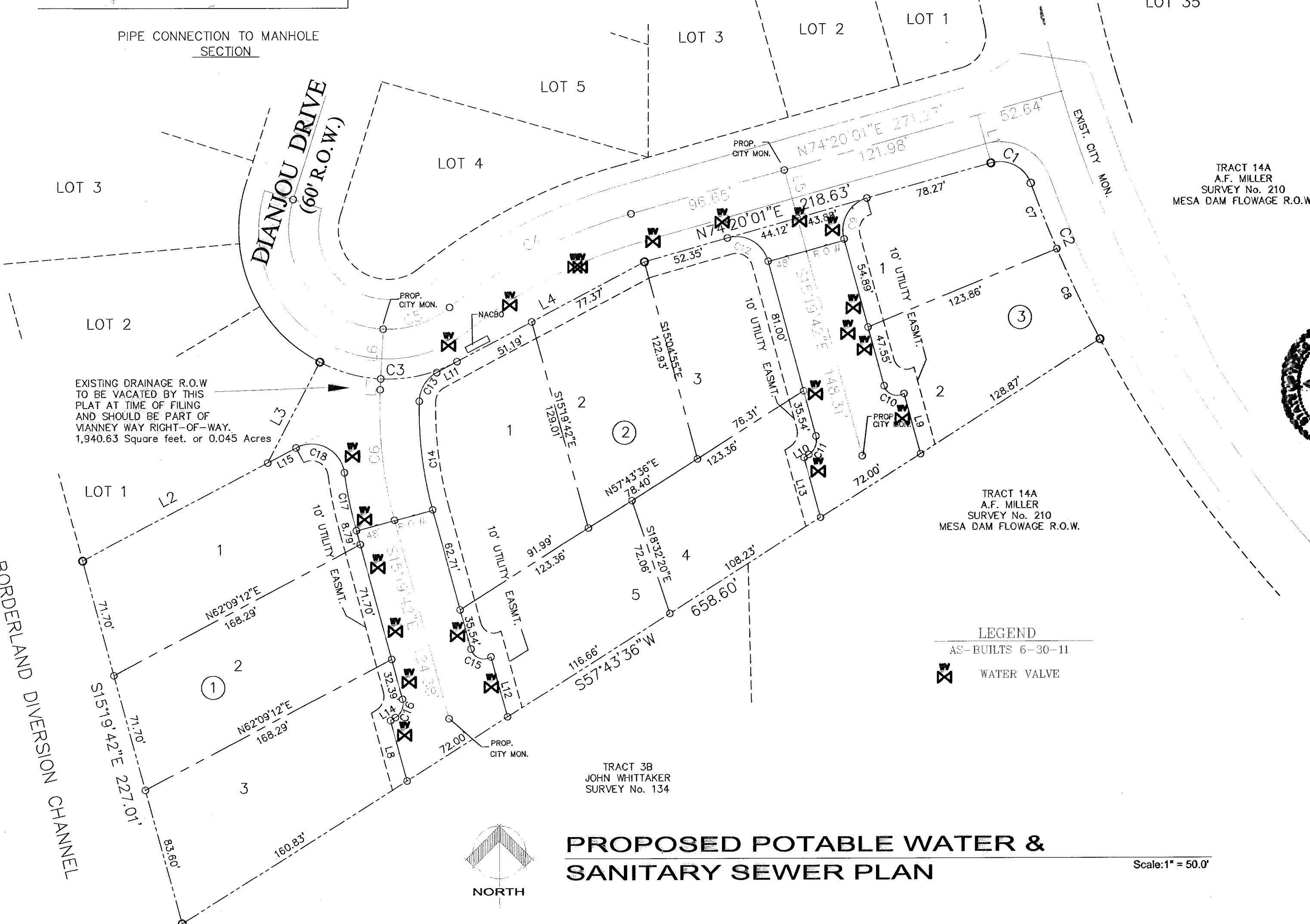
PIPE SIZE	CONDITION	DIMENSION
6", 8"	A	DI = 4"
6", 8"	B	DI = 4"
12" & LARGER	A OR B	DI = 5"

ANA WAY CURB ELEVATIONS

SYMBOL	STATION	TC ELEV.
A	0+17.70	3829.90
B	0+18.24	3829.00
C	0+49.73	3829.57
D	0+50.27	3829.57
E	1+41.43	3829.47
F	1+56.14	3829.37
G	1+59.53	3829.37
H	1+75.57	3829.47
I	1+82.64	3829.47
J	1+99.09	3829.47

MANNEY WAY CURB ELEVATIONS

SYMBOL	STATION	TC ELEV.
A	0+9.98	3824.00
B	0+11.60	3823.62
C	0+38.41	3824.18
D	0+39.75	3824.18
E	1+16.16	3824.57
F	2+03.47	3824.95
G	2+18.18	3824.95
H	2+21.60	3824.88
I	2+37.74	3824.88
J	2+44.85	3825.05
K	2+61.26	3824.88



REVISIONS

03-29-10	
05-05-10	
07-21-10	
09-29-10	
12-22-10	
01-28-11	
01-11-11	

PROJECT ARCHITECT: _____
 PROJECT NUMBER: _____
 DRAWING BY: _____
 DATE: 10-17-09
 FILE: _____

OWNER: _____
 PROJECT NAME: _____
 EL PASO, TEXAS

DIANJOU PLACE IMPROVEMENTS
 DIANJOU DRIVE

TRACT 14A
 A.F. MILLER
 SURVEY No. 210
 MESA DAM FLOWAGE R.O.W.

TRACT 3B
 JOHN WHITTAKER
 SURVEY No. 134

28 July 2011

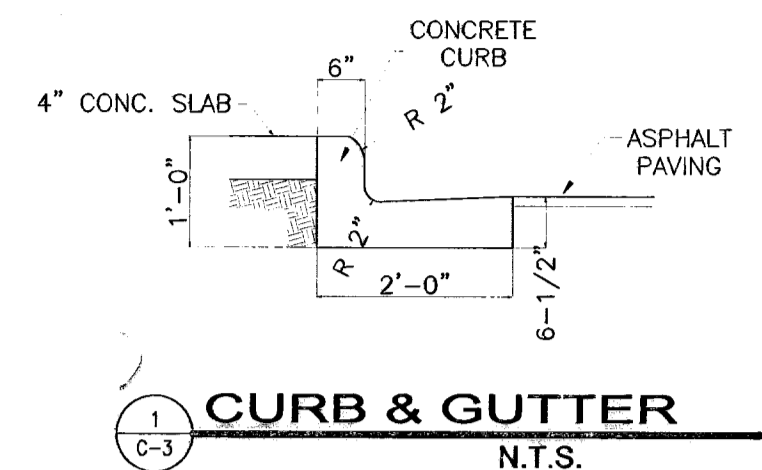


REY ENGINEERING
 Consulting Engineering & Surveying
 TEXAS FIRM REGISTRATION F-3668
 2267 IRVING BLVD., EL PASO, TX 79936
 TEL. OFFICE (915) 635-7866 MOBILE (915) 309-1889

SHEET TITLE
AS-BUILTS WATER PLAN AND DETAILS
C-4
 SHT. 07 OF 15

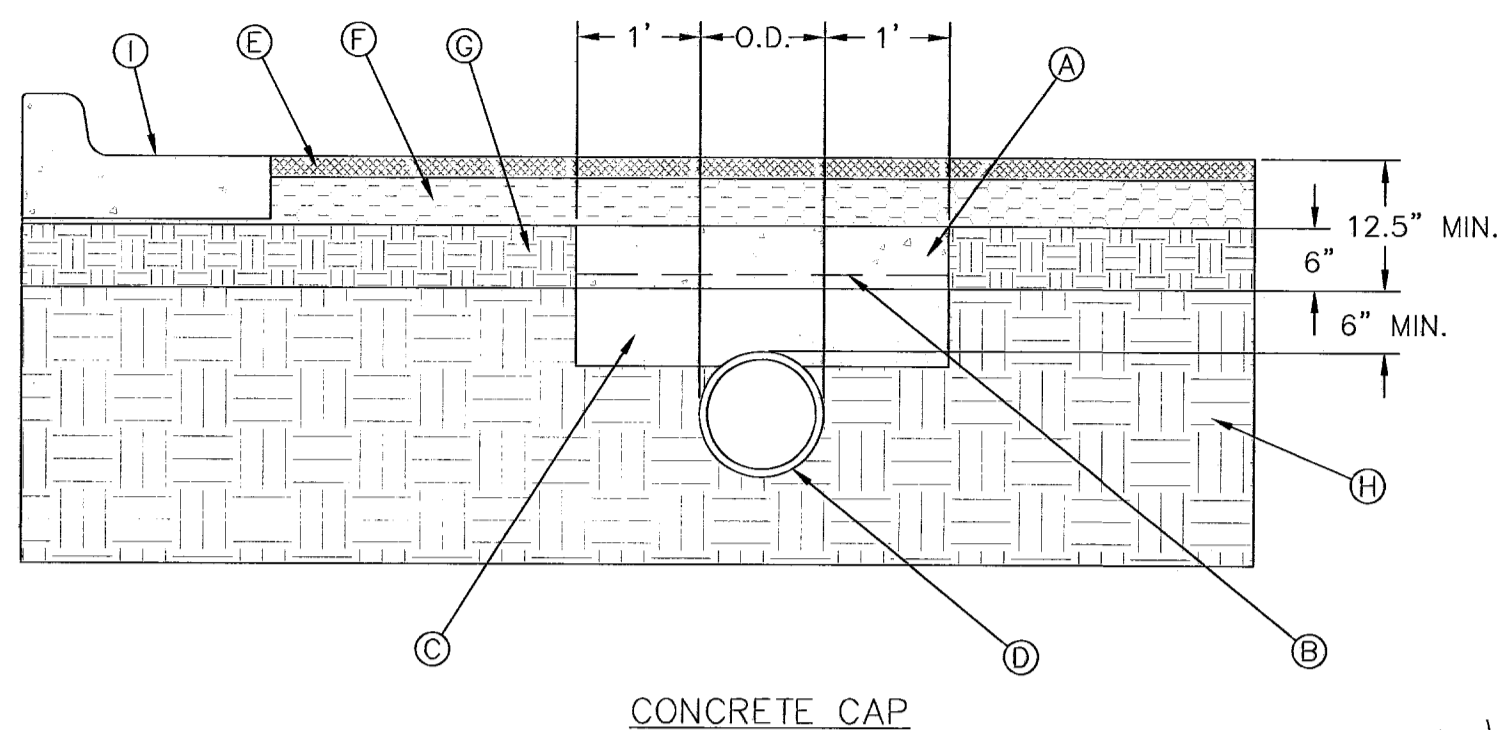
600829

DESCRIPTION	EXISTING	PROPOSED
EXISTING GROUND	---	---
PROPERTY LINE	---	---
CONTOUR LINE	---	---
ROCKWALL	---	---
SPOT ELEVATION	+	+
TOP OF SIDEWALK ELEVATION	+	+
TOP OF CURB ELEVATION	+	+
TOP OF PAVEMENT ELEVATION	+	+
DRAINAGE FLOW	---	---
HIGH POINT	+	+
LOW POINT	+	+
POWER POLE	+	+
FIRE HYD	+	+
ELECTRIC BOX	+	+
WSA= WATER SHED AREAS	---	---



GENERAL NOTES:
 1. DETAIL USED WHEN STANDARD COVER CANNOT BE MET.
 2. NEW PAVEMENT ELEVATION, HMAc THICKNESS, BASE THICKNESS, AND SUB-BASE THICKNESS IS TO BE PROPOSED BY OTHERS.

CONSTRUCTION KEY NOTES:
 A. CONCRETE CAP 3000 P.S.I. CLASS "A"
 B. (6/8-10 WWF) WIRE MESH
 C. SAND CUSHION
 D. PROPOSED OR EXISTING PIPE
 E. HMAc
 F. BASE
 G. SUB-BASE
 H. COMPACTED BACKFILL
 I. CONCRETE CURB



LINE	BEARING	LENGTH
L1	N15°39'59"W	30.00
L2	N62°09'12"E	126.68
L3	N27°27'29"E	68.11
L4	N62°09'12"E	128.56
L5	S15°19'42"E	30.00
L6	S02°54'44"W	30.00
L7	S02°54'44"W	6.54
L8	S15°19'42"E	37.63
L9	S15°19'42"E	37.63
L10	N57°43'36"E	3.50
L11	N62°09'12"E	13.92
L12	S15°19'42"E	37.63
L13	S15°19'42"E	37.63
L14	N57°43'36"E	3.50
L15	N62°09'12"E	19.28

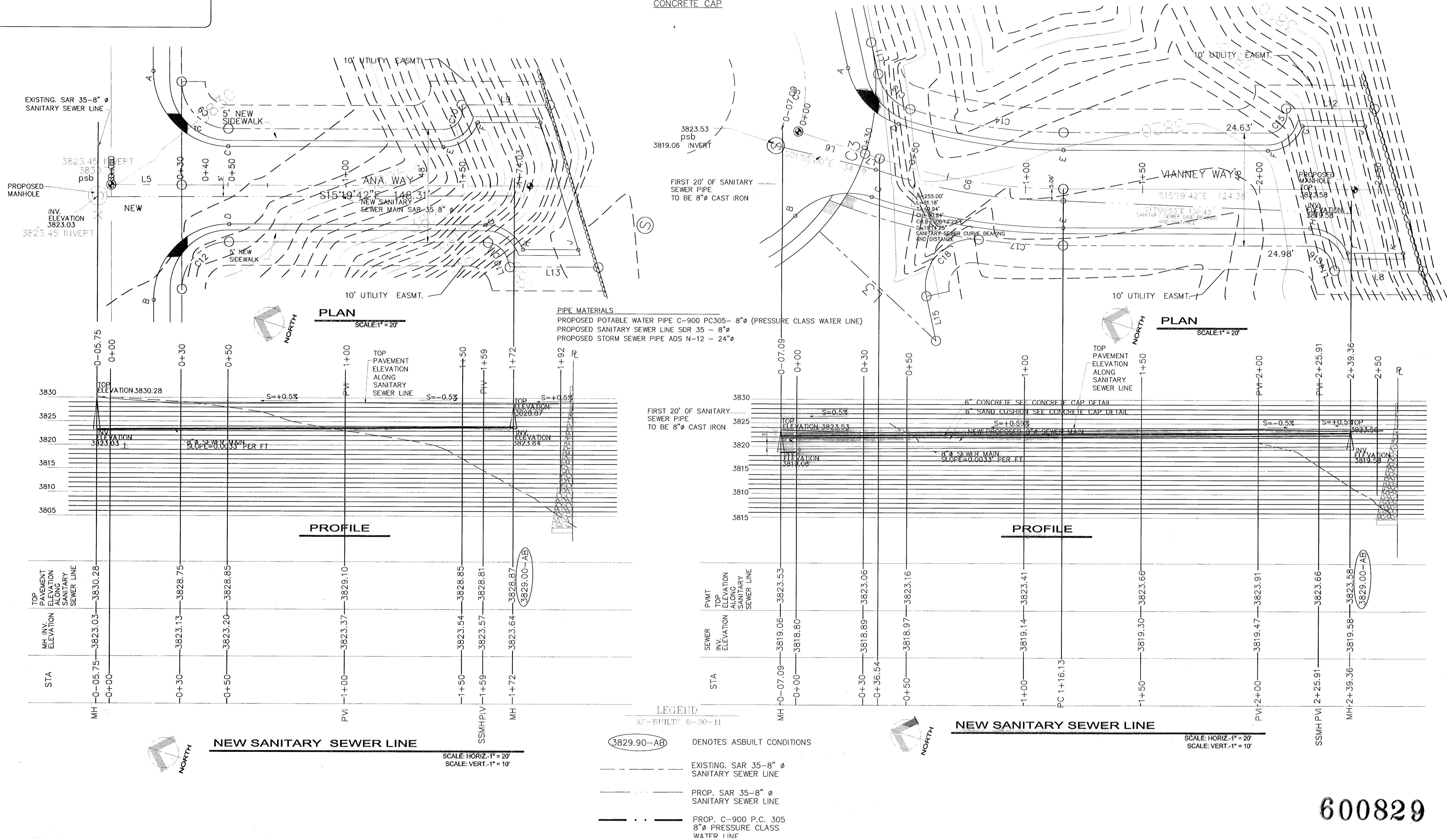
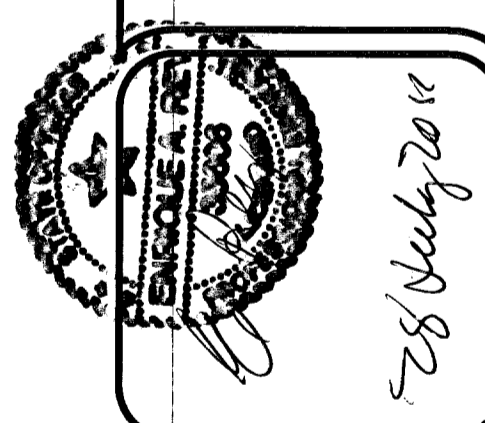
CURVE	LENGTH	RADIUS	CHORD	TANGENT	CHORD BEARING	DELTA
C1	29.83	20.00	27.14	18.48	N62°55'54"W	85°28'10"
C2	102.75	769.89	102.67	51.45	S24°01'13"E	7°38'47"
C3	86.87	90.00	83.54	47.16	N89°48'18"E	55°18'21"
C4	124.41	312.85	123.59	63.04	S62°56'29"W	22°47'05"
C5	43.32	60.00	42.38	22.65	N72°13'50"E	41°21'48"
C6	79.59	250.00	79.25	40.13	S06°12'29"E	18°14'26"
C7	42.47	769.89	42.46	21.24	S21°46'38"E	3°09'37"
C8	60.28	769.89	60.26	30.16	S25°36'01"E	4°29'10"
C9	31.30	20.00	28.20	19.88	S29°30'09"W	89°39'43"
C10	15.08	8.08	12.99	10.91	S68°48'03"E	106°56'42"
C11	12.75	10.00	11.90	7.41	N21°11'57"E	4°29'10"
C12	31.53	20.00	28.37	20.12	N60°29'50"W	90°20'17"
C13	21.19	20.00	20.21	11.71	S31°48'13"W	60°41'59"
C14	66.20	226.00	65.96	33.34	S06°56'14"E	16°46'55"
C15	15.08	8.08	12.99	10.91	S68°48'03"E	106°56'42"
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C17	36.04	274.00	36.01	18.04	S11°33'38"E	7°32'08"
C18	38.42	20.00	32.78	28.59	N62°49'11"W	110°03'14"

REVISIONS
03-29-10
05-05-10
06-03-10
06-11-10
07-21-10
09-29-10
12-03-10
12-22-10
1-28-11

PROJECT NUMBER	DRAWING BY	DATE	FILE
XXXXXX		10-17-09	

OWNER
 XXXXX

PROJECT NAME
DIANJOU PLACE IMPROVEMENTS
 EL PASO, TEXAS
 DIANJOU DRIVE



600829

REV. ENGINEERING
 Consulting Engineering & Surveying
 2287 TRAWOOD B-3, EL PASO, TX 79936
 TEL. OFFICE (915) 633-7080 MOBILE (915) 309-1889

SHEET TITLE
 STREETS SANITARY SEWER
 PLAN - PROFILE
 & SECTIONS
C-5
 SHT. 08 OF 15

REVISIONS	
03-29-10	
05-05-10	
06-03-10	
07-21-10	
09-29-10	
12-22-10	
1-28-11	
5-18-11	

PROJECT ARCHITECT:	PROJECT NUMBER:	DATE:
DRAWING BY:	DATE:	10-17-09
FILE:		

OWNER

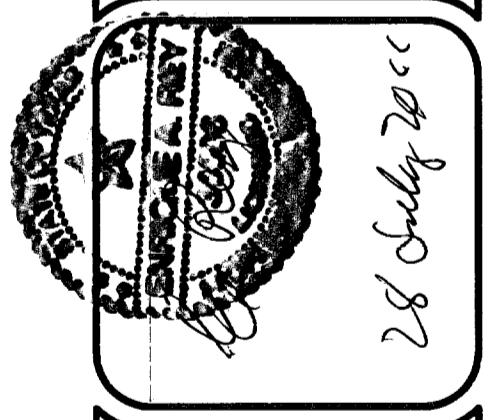
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PROJECT NAME

DIANJOU PLACE IMPROVEMENTS

DIANJOU DRIVE

EL PASO, TEXAS



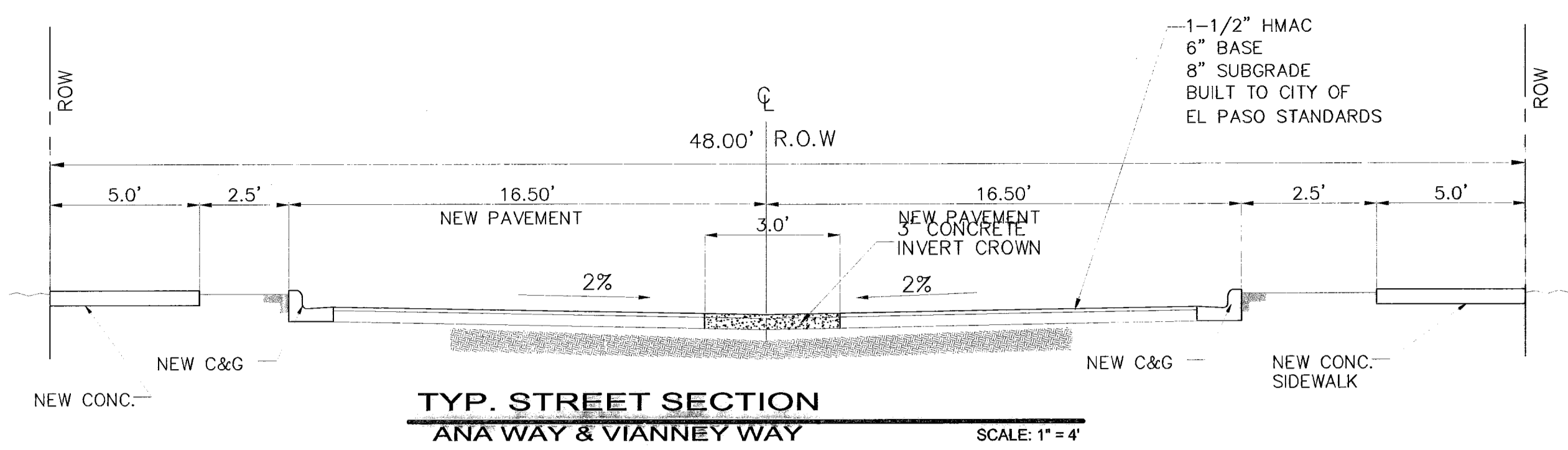
REY ENGINEERING
 Consulting Engineering & Surveying
 TEXAS FIRM REGISTRATION F-3286
 2287 TRAWOOD B-S, EL PASO, TX 79936
 TEL. OFFICE (915) 635-7080 MOBILE (915) 309-1889

SHEET TITLE

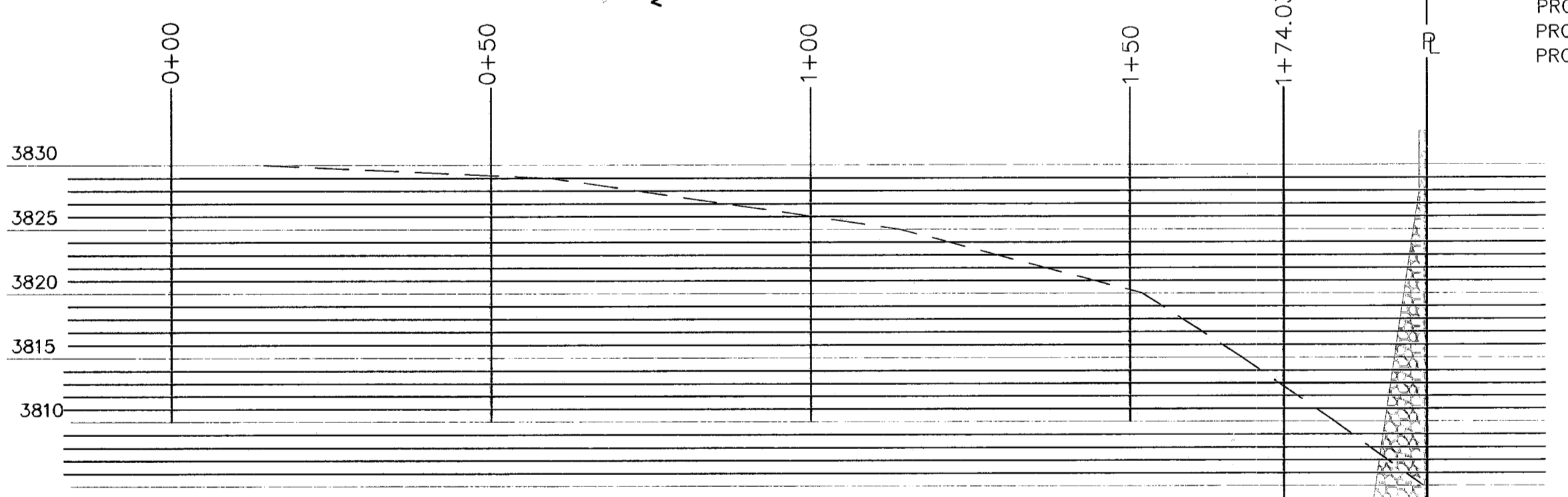
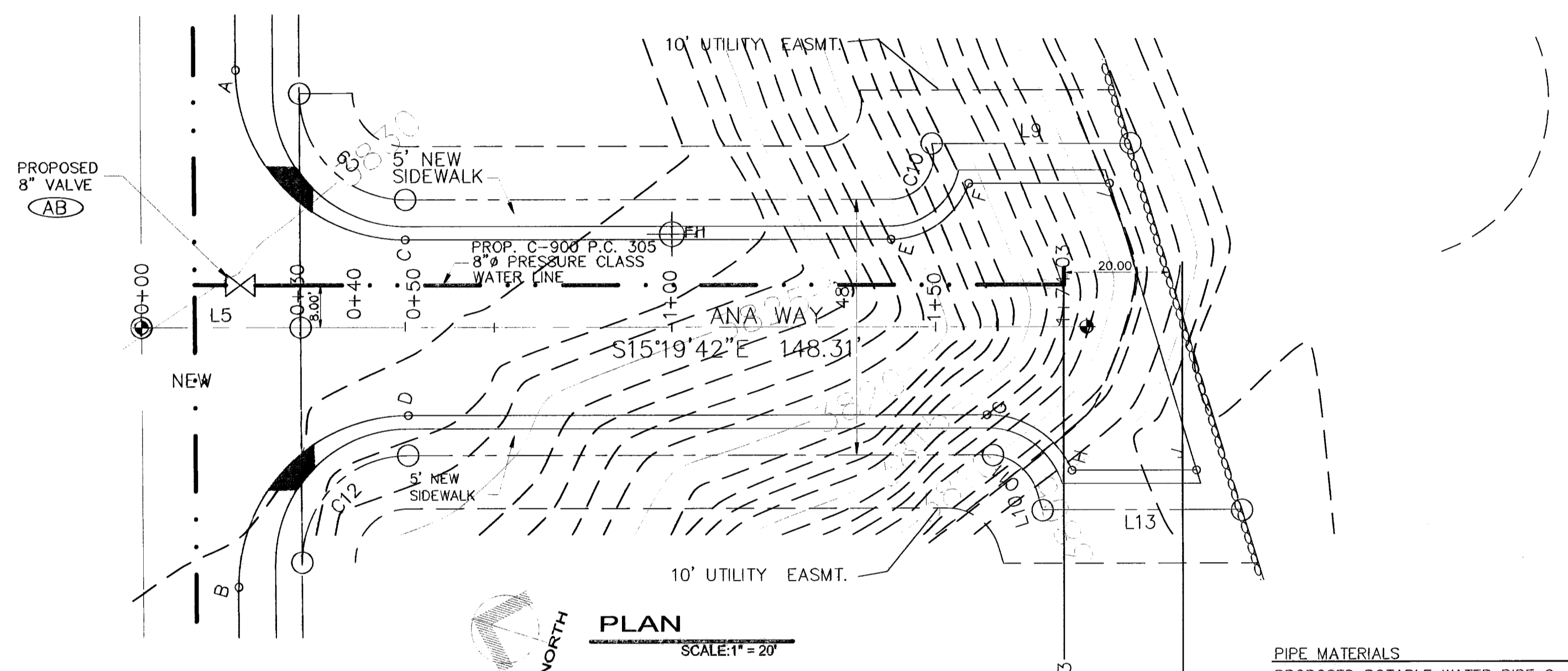
STREETS WATER LINE
 PLAN - PROFILE
 & SECTION

C-6

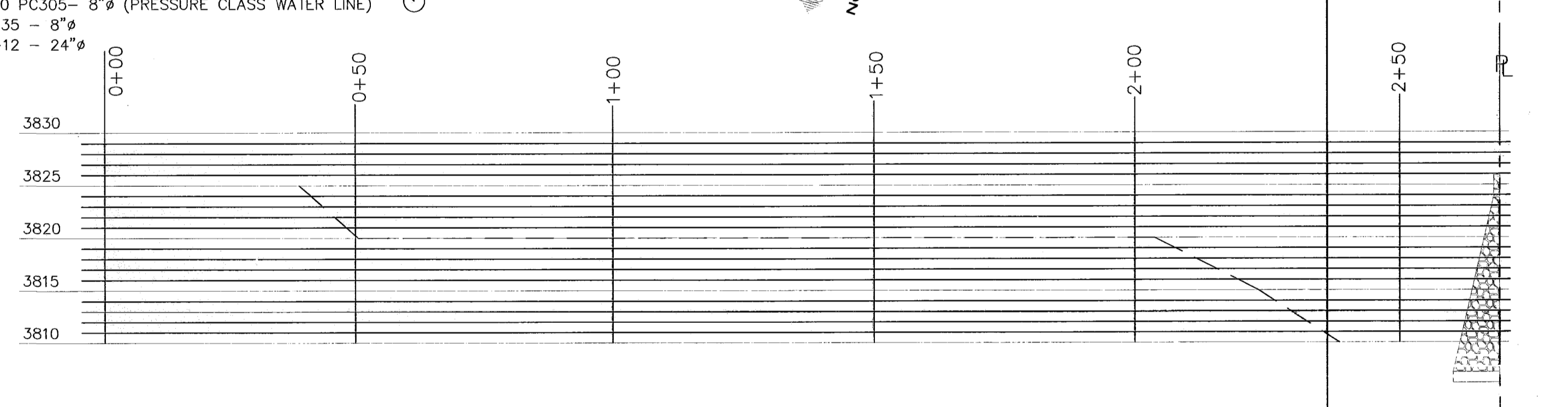
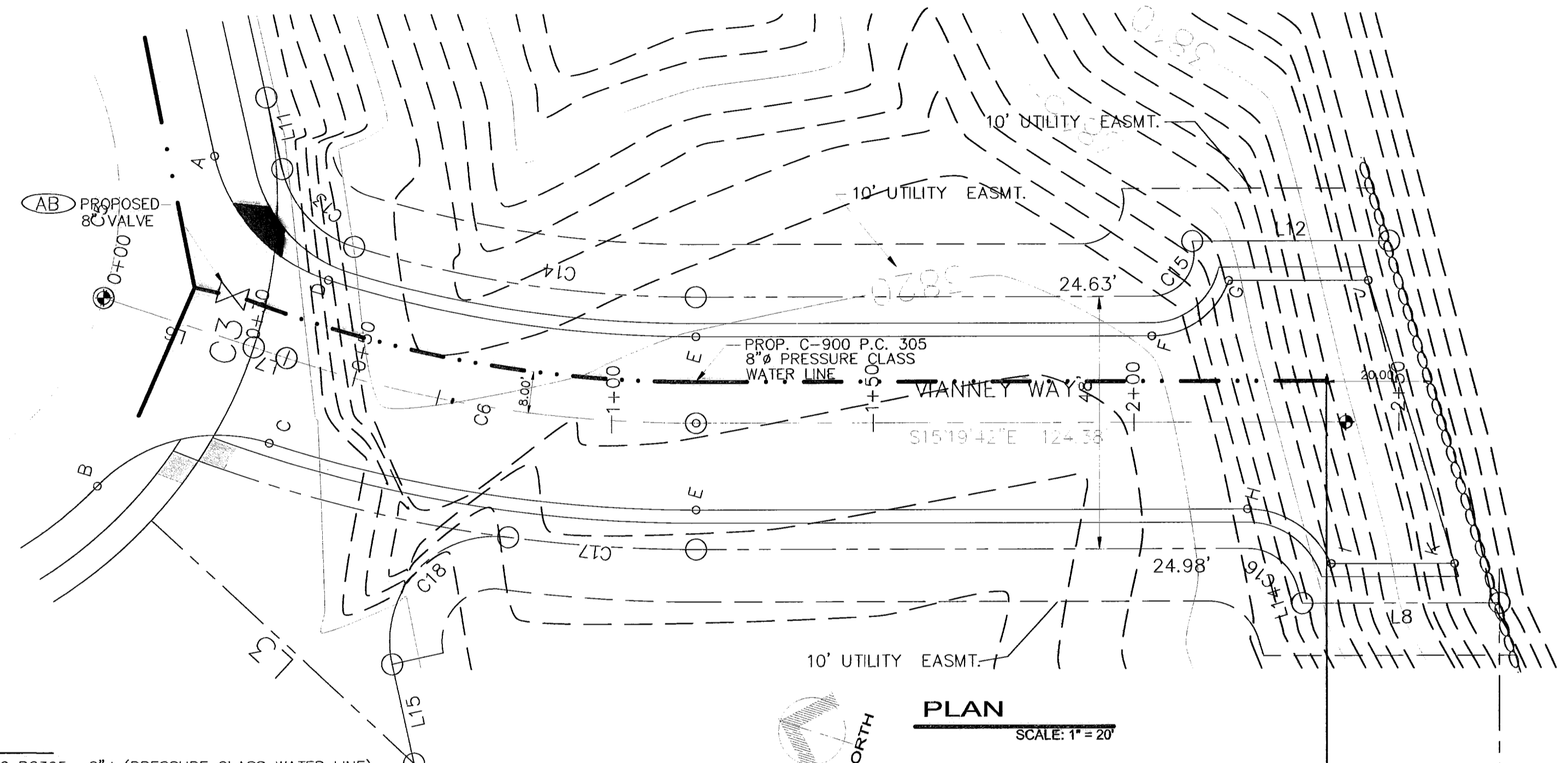
SHT. 09 OF 15



LEGEND
 AS-BUILT: 6-30-11
 (AB) DENOTES ASBUILT CONDITIONS



STA	EXISTING ELEVATION	TOP OF NEW CONC. CURB ELEVATION
0+00	3829.29	3829.29
0+50		
1+00		
1+50		
1+74.03		
PL-1+97.26		



STA	EXISTING ELEVATION	TOP OF NEW CONC. CURB ELEVATION
0+00	3823.60	3823.60
0+50		
1+00		
1+50		
2+00		
2+36.85		
2+50		

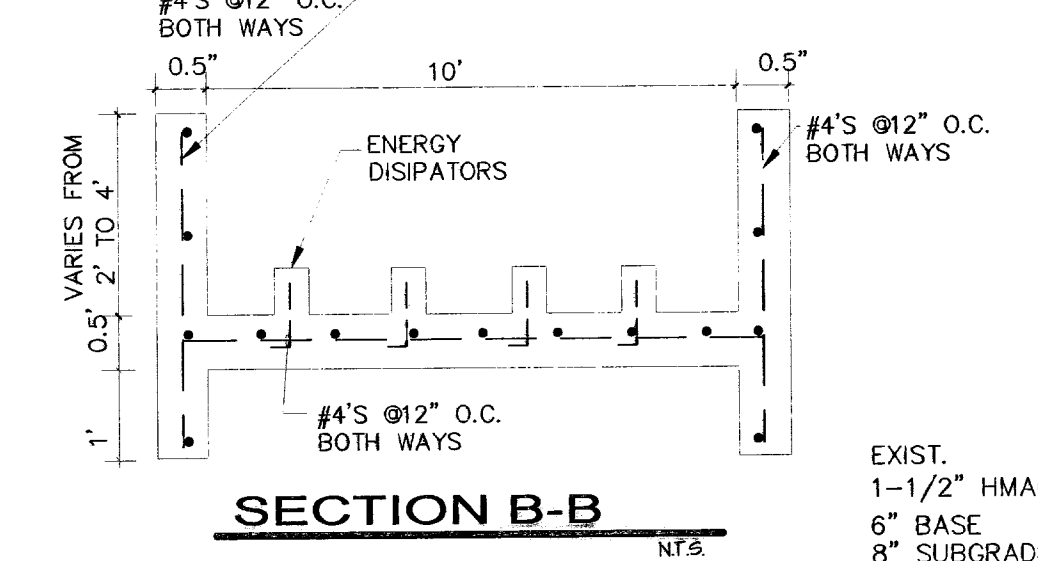
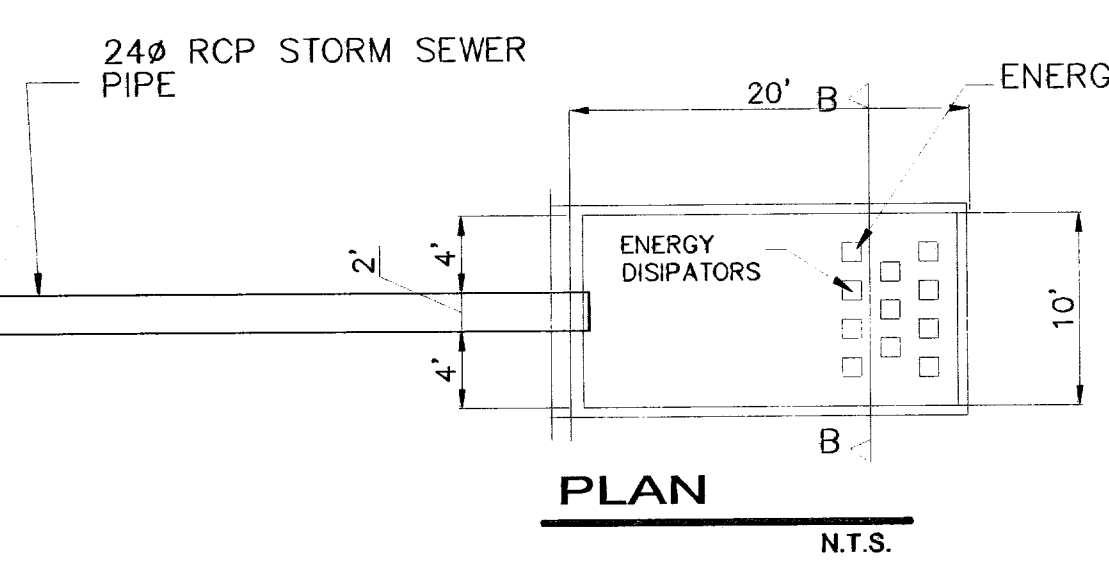
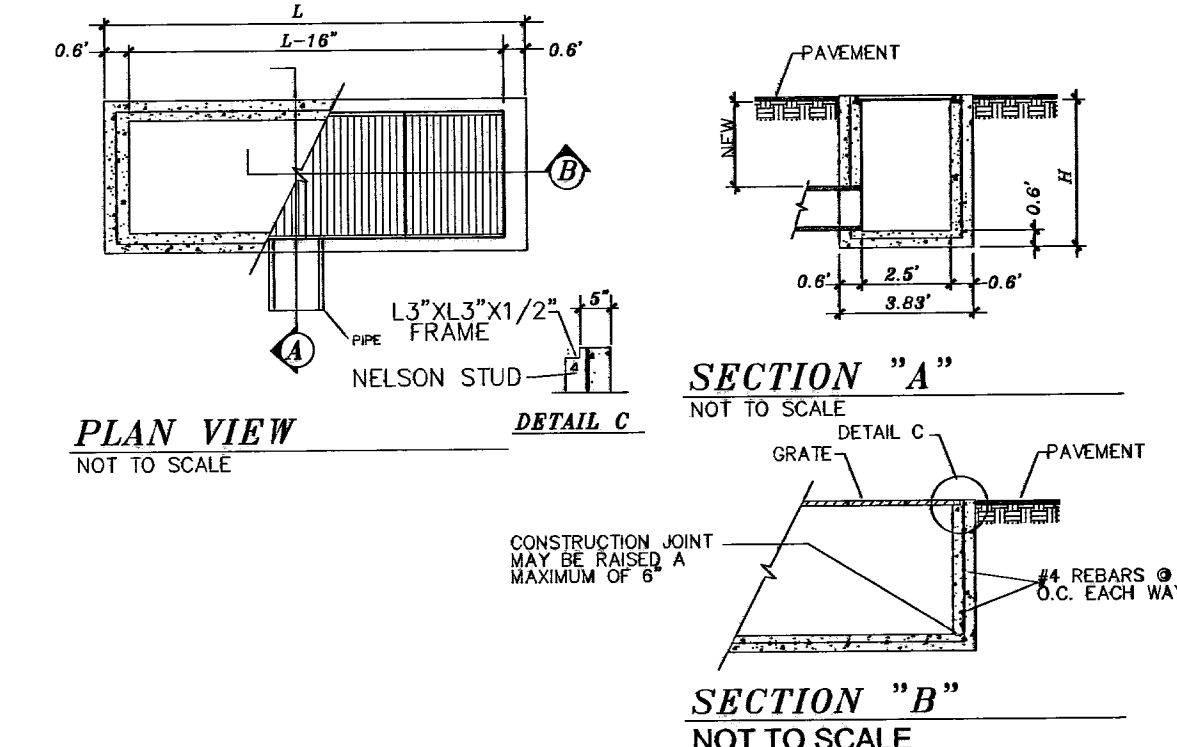
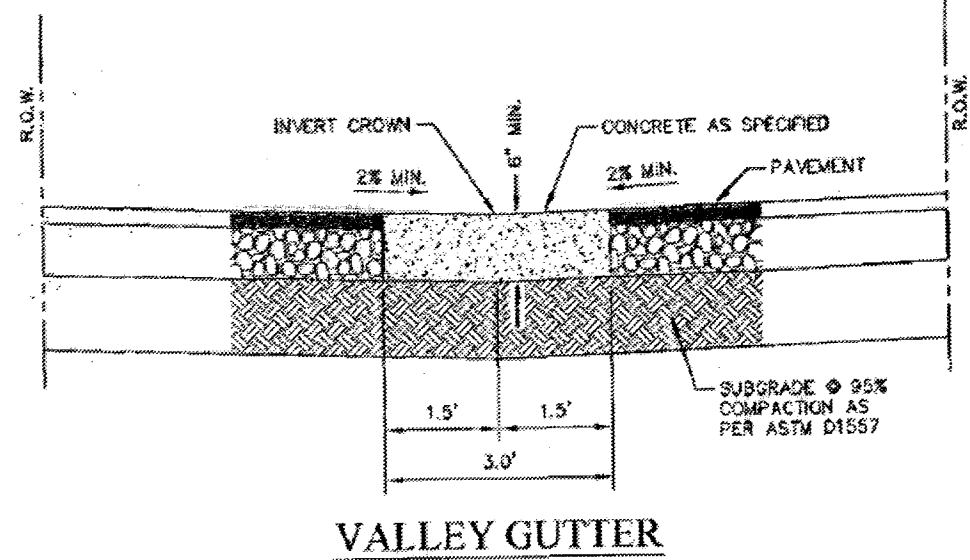
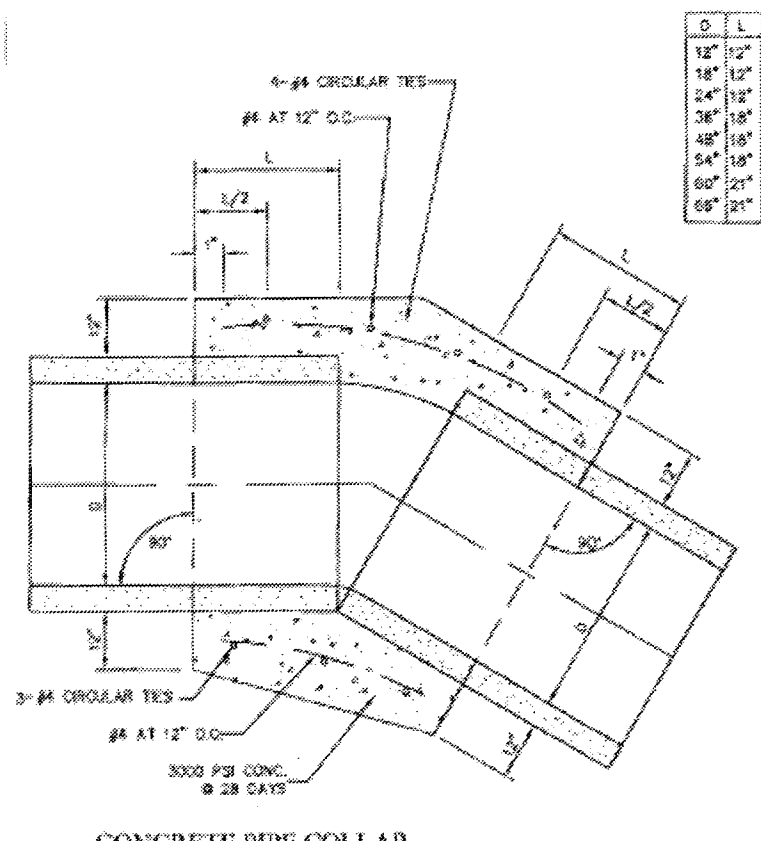
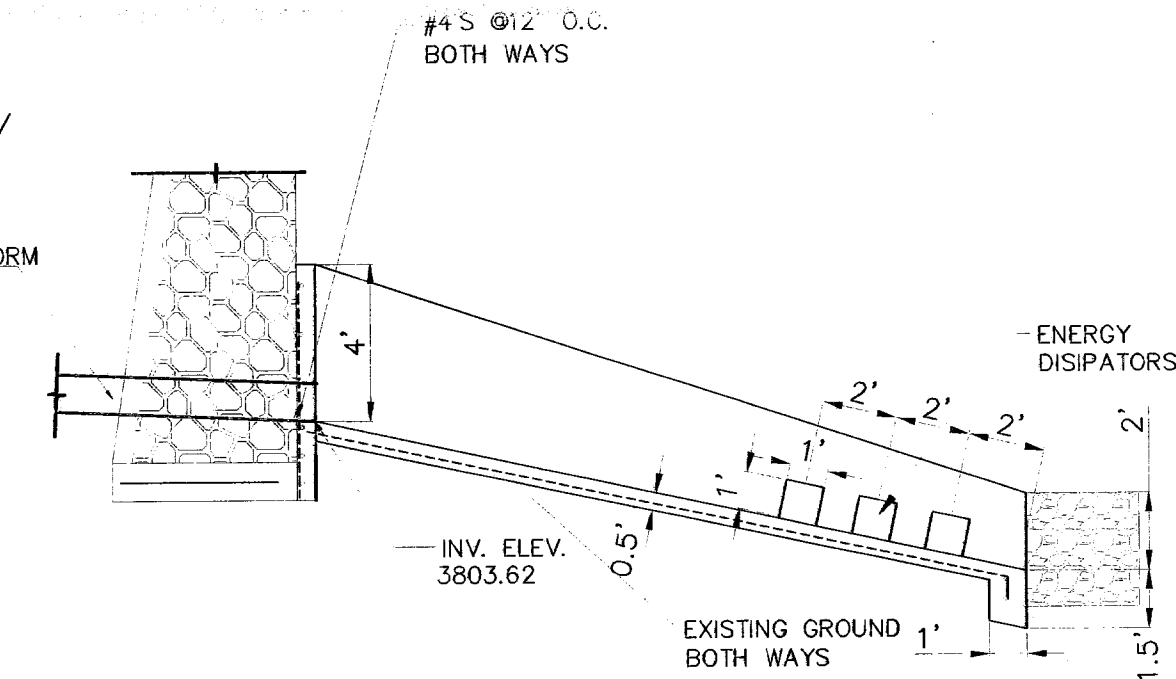
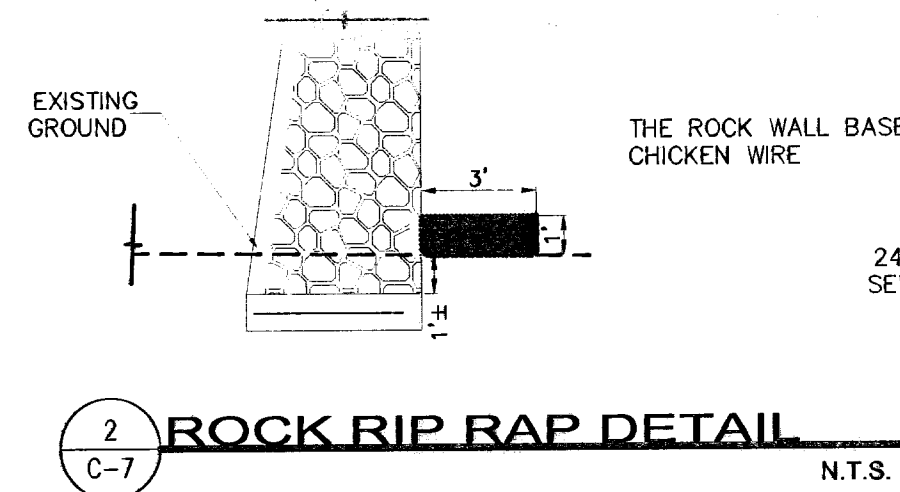
PIPE MATERIALS
 PROPOSED POTABLE WATER PIPE C-900 PC305 - 8" (PRESSURE CLASS WATER LINE)
 PROPOSED SANITARY SEWER LINE SDR 35 - 8"
 PROPOSED STORM SEWER PIPE ADS N-12 - 24"

NOTES:
 1-MINIMUM COVER FOR POTABLE WATER MAIN IS 4 FT

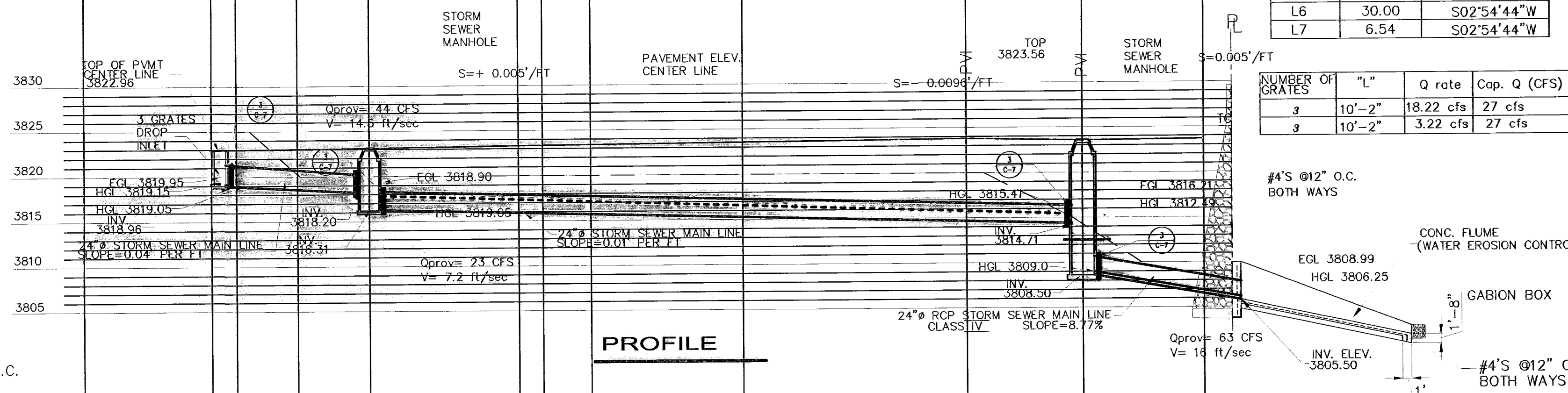
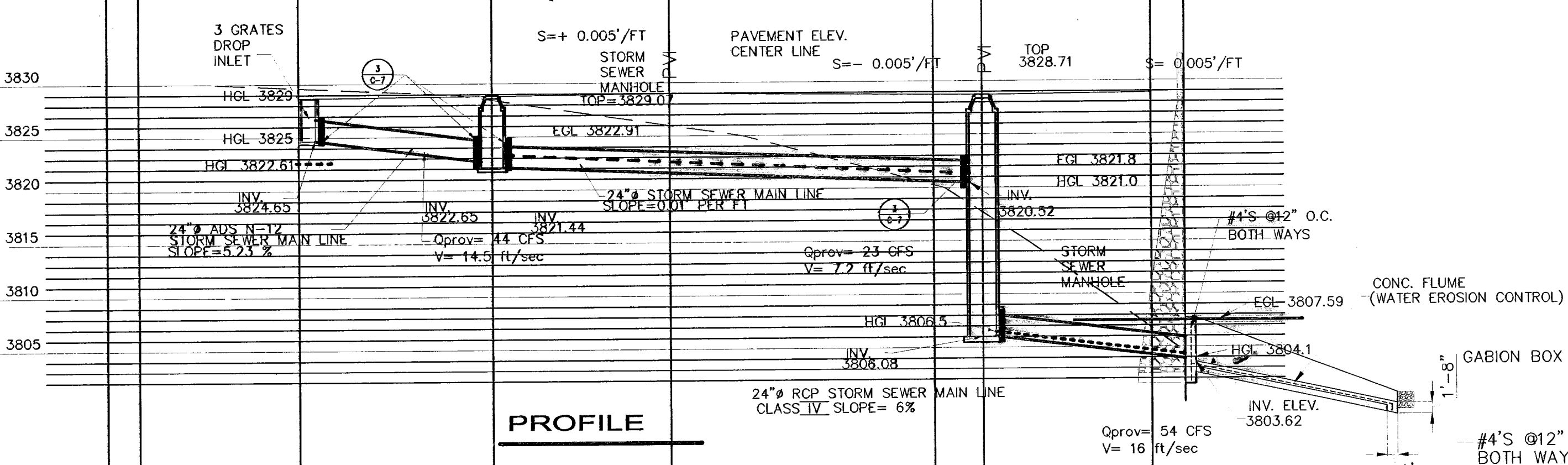
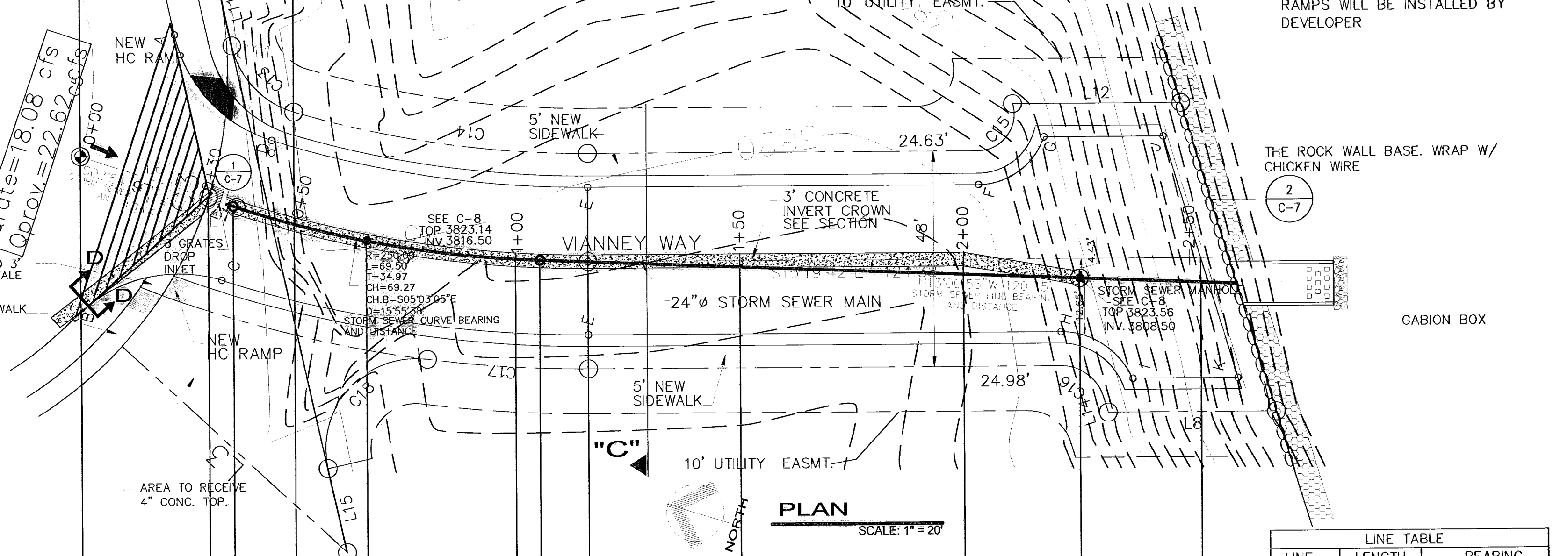
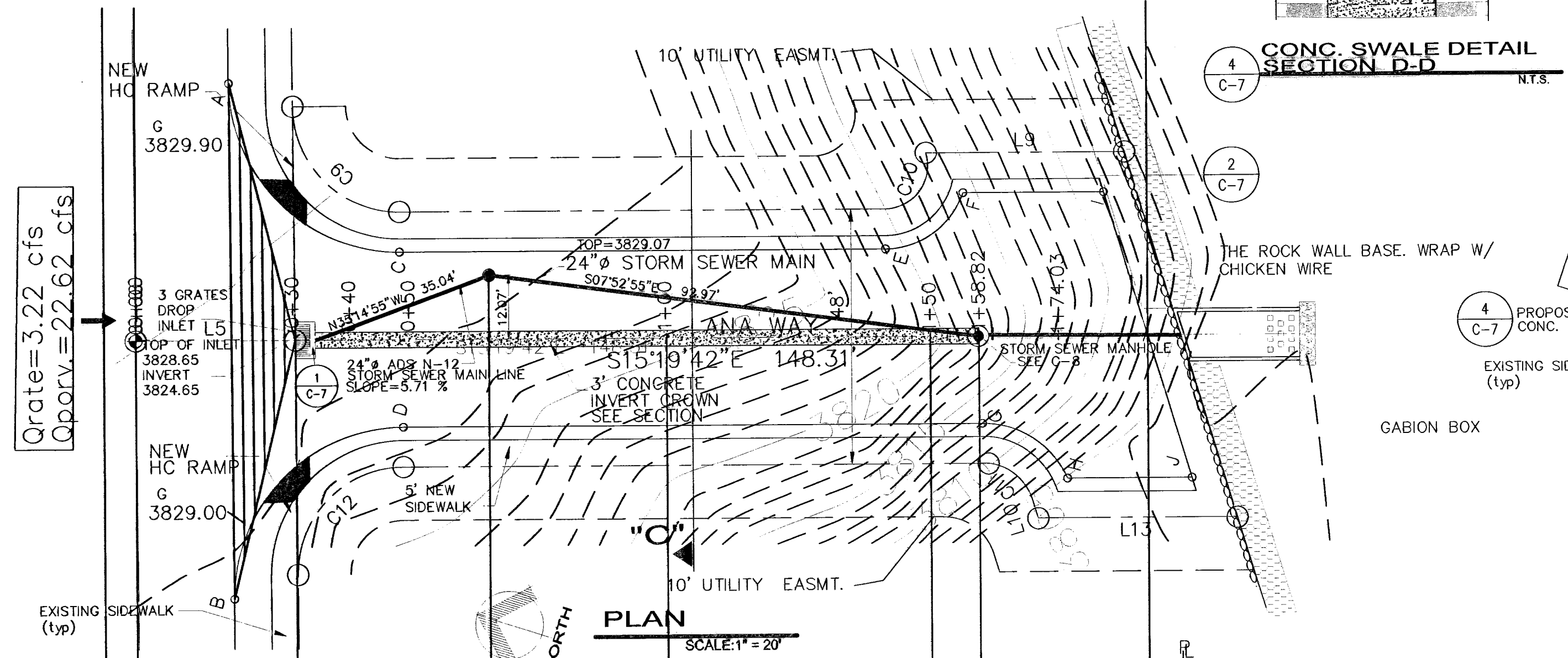
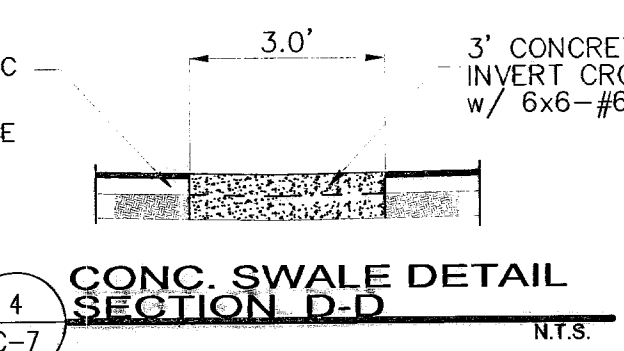
NEW POTABLE WATER LINE
 SCALE: HORIZ.-1"=20'
 SCALE: VERT.-1"=10'

NEW POTABLE WATER LINE
 SCALE: HORIZ.-1"=20'
 SCALE: VERT.-1"=10'

600829



CURVE TABLE						
CURVE	LENGTH	RADIUS	CHORD	TANGENT	CHORD BEARING	DELTA
C6	79.59	250.00	79.25	40.13	S06°12'29"E	18°14'26"



LINE TABLE		
LINE	LENGTH	BEARING
L6	30.00	S02°54'44"W
L7	6.54	S02°54'44"W

NUMBER OF GRATES	"L"	Q rate	Cap. Q (CFS)
3	10'-2"	18.22 cfs	27 cfs
3	10'-2"	3.22 cfs	27 cfs

LEGEND
3829.90-AB DENOTES ASBUILT CONDITIONS 6-30-11

VIANNEY STORM SEWER PLAN AND PROFILE

600829

ANA WAY STORM SEWER PLAN AND PROFILE

SCALE: HORIZ. 1" = 20'
SCALE: VERT. 1" = 10'

PIPE MATERIALS CLASS IV
STORM SEWER PIPE ADS N-12 - 24" Ø ON TOP
RCP STORM SEWER MAIN LINE 24" Ø ON BOTTOM

SCALE: HORIZ. 1" = 20'
SCALE: VERT. 1" = 10'

BENCHMARK

EXIST. CITY MON. @ INTERSECTION OF BARTLETT DR. & DIANJOU DR. ELEVATION 3830.24

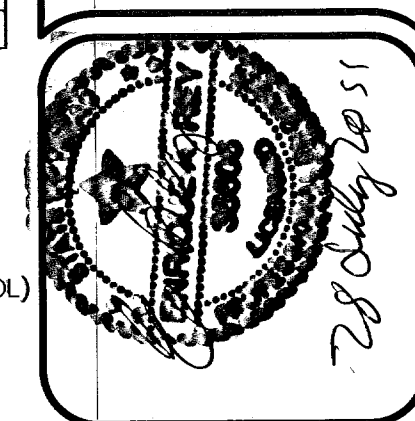
REVISIONS

03-29-10
05-05-10
07-21-10
09-07-10
09-29-10
11-22-10
12-22-10
5-18-11

PROJECT NUMBER: 600829
DRAWING BY: [Name]
DATE: 10-17-09
FILE: [Name]

OWNER: [Name]
PROJECT NAME: [Name]
EL PASO, TEXAS

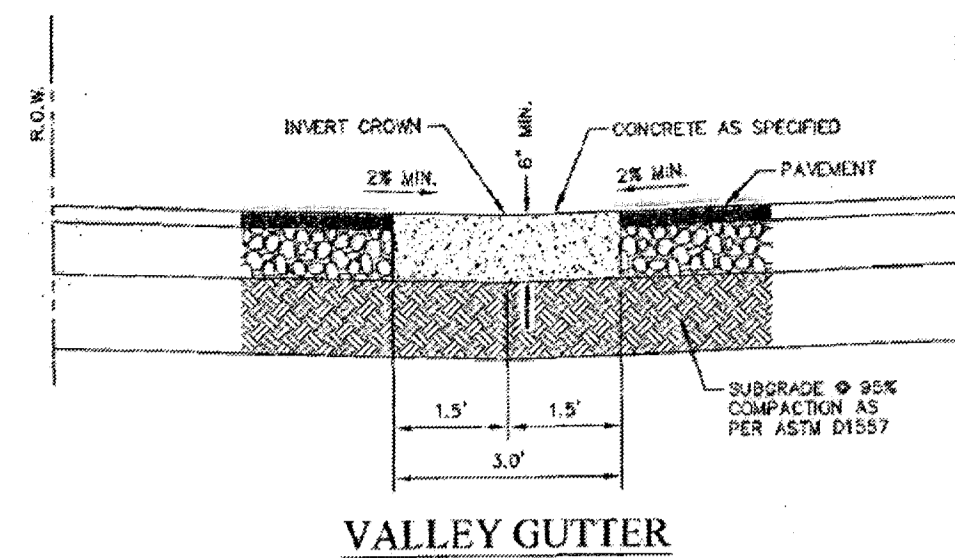
DIANJOU PLACE IMPROVEMENTS
DIANJOU DRIVE



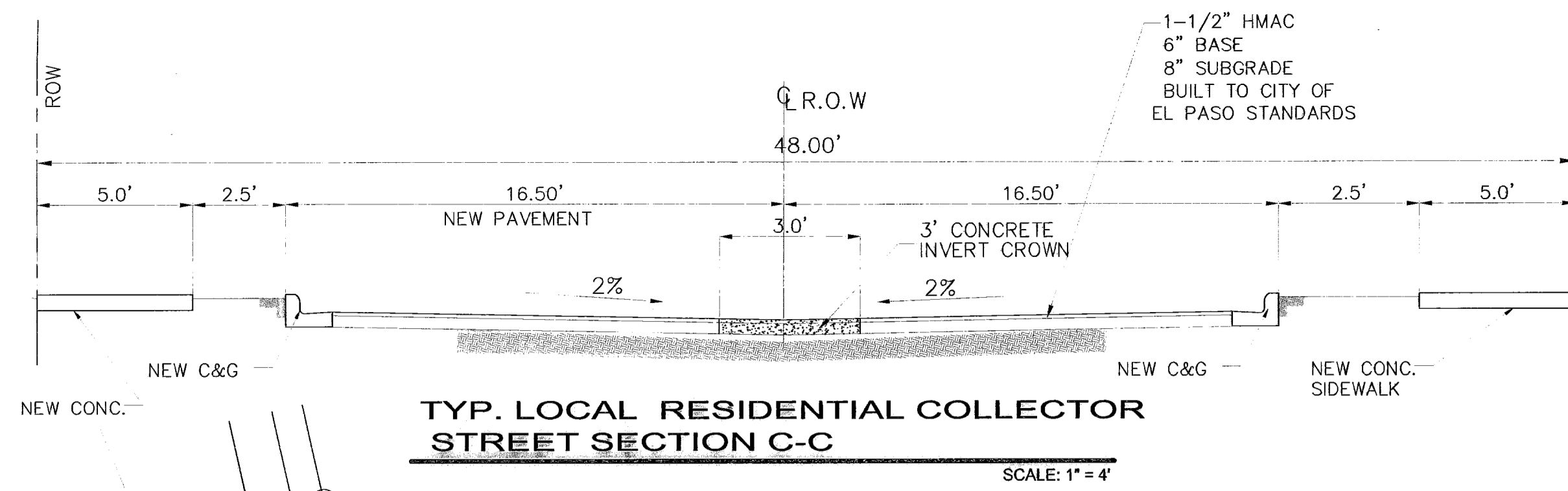
REV ENGINEERING
CIVIL ENGINEERING & SURVEYING
2287 TRAWOOD B-3, EL PASO, TX 79936
TEL. OFFICE (915) 633-7080 MOBILE (915) 309-1889

SHEET TITLE
AS-BUILTS STORM SEWER PLAN PROFILE
C-7
SHT. 10 OF 15

CURVE	LENGTH	RADIUS	CHORD	TANGENT	CHORD BEARING	DELTA
C1	29.83	20.00	27.14	18.48	N62°55'54"W	85°28'10"
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C6	79.59	250.00	79.25	40.13	S06°12'29"E	18°14'26"
C7	42.47	769.89	42.46	21.24	S21°46'38"E	3°09'37"
C8	60.28	769.89	60.26	30.16	S25°36'01"E	4°29'10"
C9	31.30	20.00	28.20	19.88	S29°30'09"W	89°39'43"
C10	15.08	8.08	12.99	10.91	S68°48'03"E	106°56'42"
C11	12.75	10.00	11.90	7.41	N21°11'57"E	73°03'18"
C12	31.53	20.00	28.37	20.12	N60°29'50"W	90°20'17"
C13	21.19	20.00	20.21	11.71	S31°48'13"W	60°41'59"
C14	66.20	226.00	65.96	33.34	S06°56'14"E	16°46'55"
C15	15.08	8.08	12.99	10.91	S68°48'03"E	106°56'42"
C16	12.75	10.00	11.90	7.41	N21°11'57"E	73°03'18"
C17	36.04	274.00	36.01	18.04	S11°33'38"E	7°32'08"
C18	38.42	20.00	32.78	28.59	N62°49'11"W	110°03'14"



NOTES:
COMPRESSIVE STRENGTH OF CONCRETE SHALL BE $f'_c = 3000$ P.S.I. MINIMUM

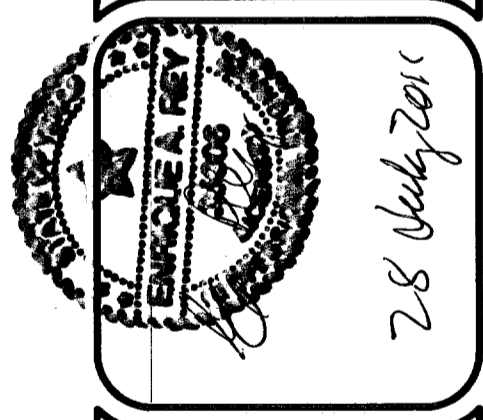


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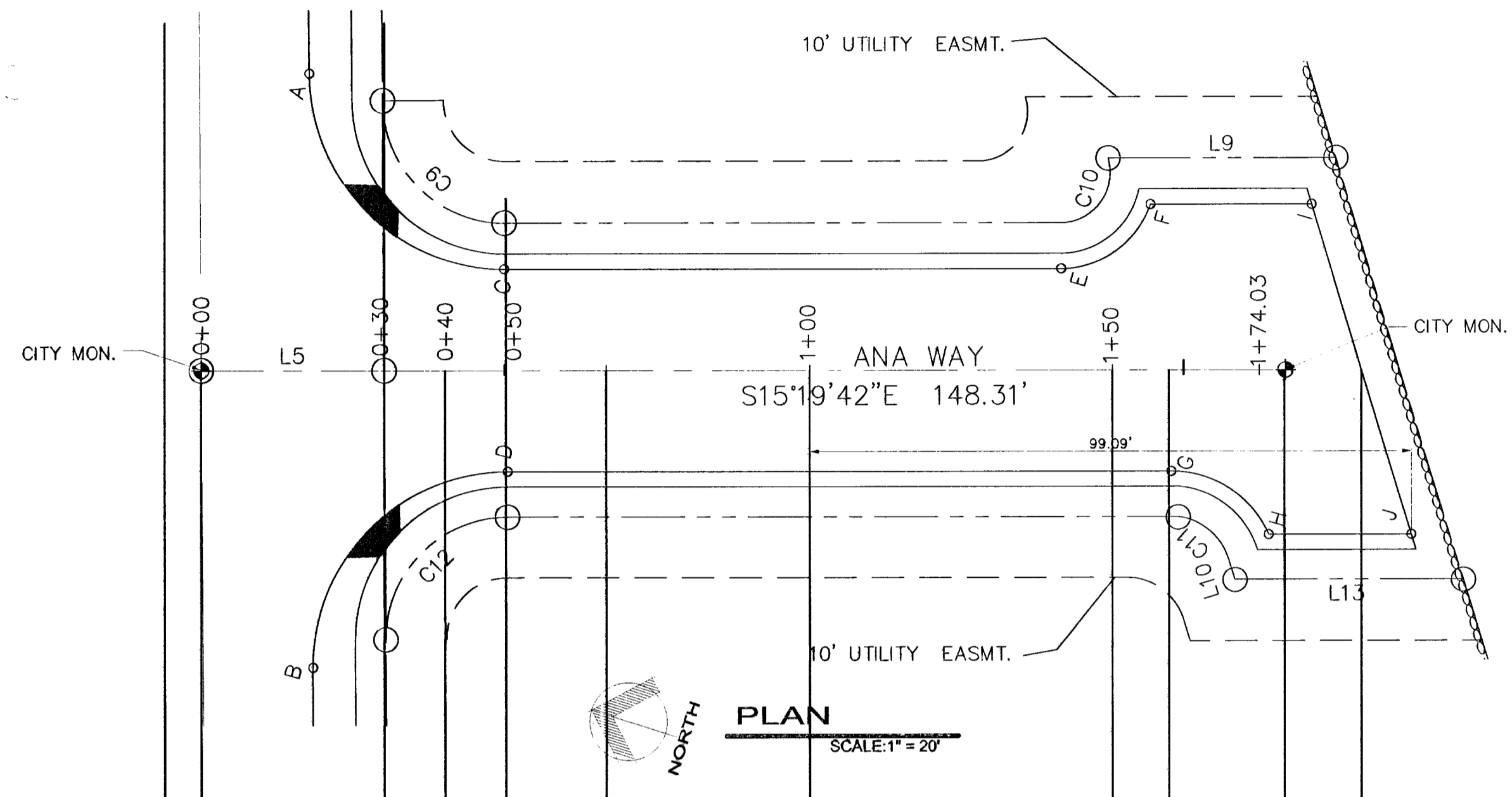
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PROJECT NAME: DIANJOU PLACE IMPROVEMENTS
EL PASO, TEXAS
DIANJOU DRIVE



DATE: 2/8/2011

SHEET TITLE: AS-BUILTS CURBS, PVMT & RETAINING WALL PLAN PROFILE
C-7.1
SHT. 11 OF 15

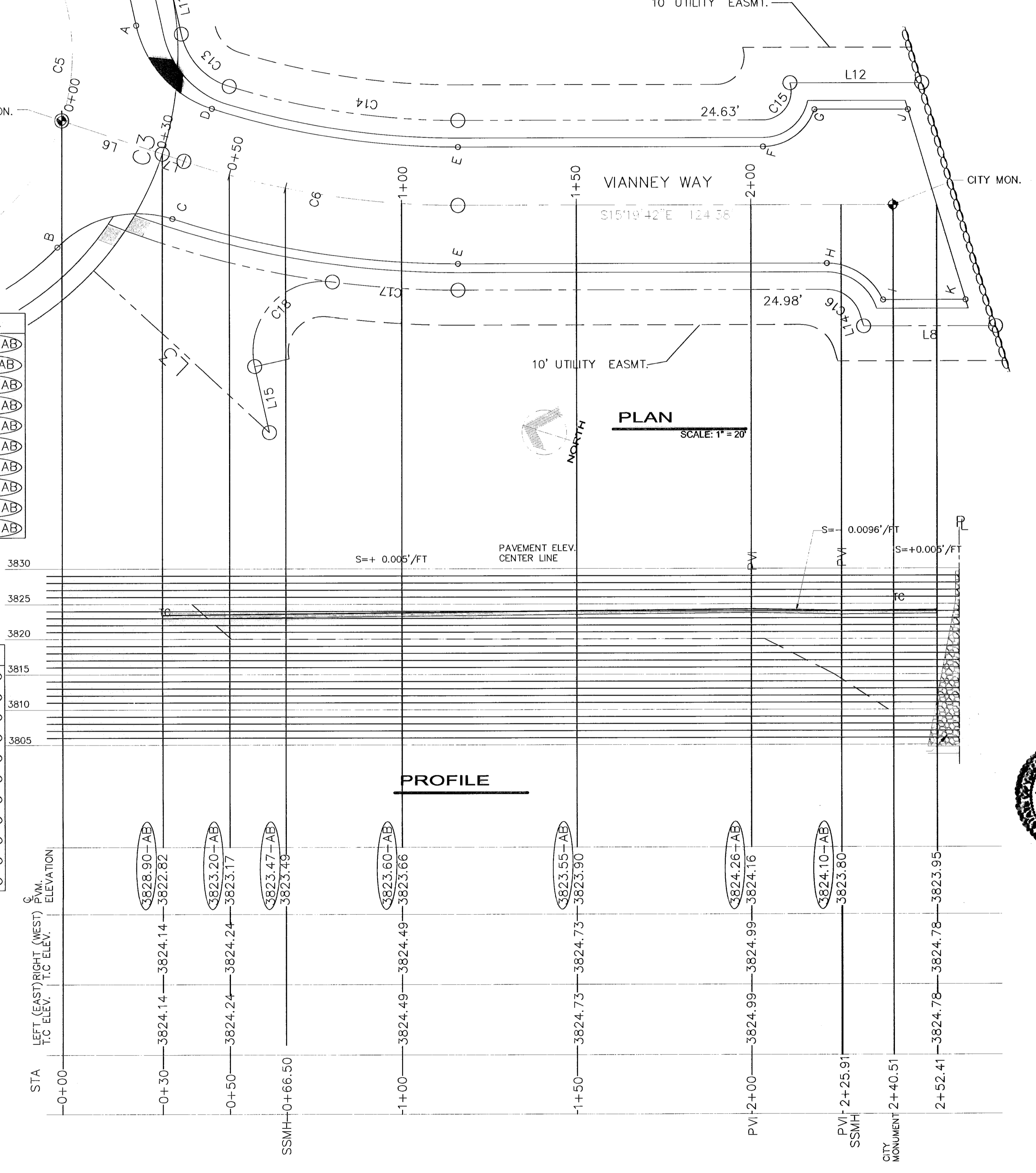
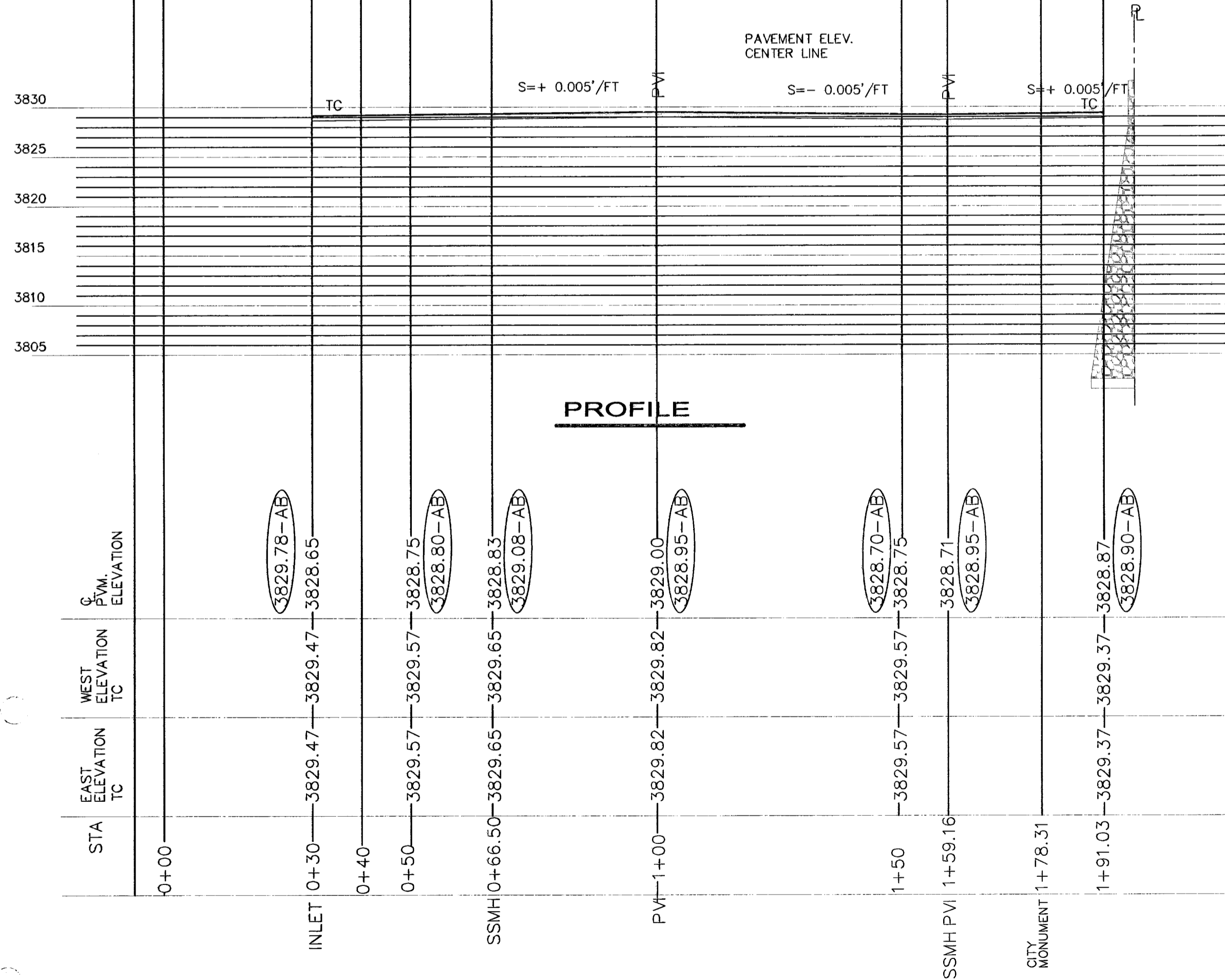


LINE	BEARING	LENGTH
L1	N15°39'59"W	30.00
L2	N62°09'12"E	126.68
L3	N27°27'29"E	68.11
L4	N62°09'12"E	128.56
L5	S15°19'42"E	30.00
L6	S02°54'44"W	30.00
L7	S02°54'44"W	6.54
L8	S15°19'42"E	37.63
L9	S15°19'42"E	37.63
L10	N57°43'36"E	3.50
L11	N62°09'12"E	13.92
L12	S15°19'42"E	37.63
L13	S15°19'42"E	37.63
L14	N57°43'36"E	3.50
L15	N62°09'12"E	19.28

ANA WAY CURB ELEVATIONS			
SYMBOL	STATION	TC ELEV.	TC ELEV.
A	0+17.70	3829.90	3829.90-AB
B	0+18.24	3829.00	3829.11-AB
C	0+49.73	3829.57	3829.62-AB
D	0+50.27	3829.57	3829.43-AB
E	1+41.43	3829.47	3829.46-AB
F	1+56.14	3829.37	3829.52-AB
G	1+59.53	3829.37	3829.44-AB
H	1+75.57	3829.47	3829.44-AB
I	1+82.64	3829.47	3829.55-AB
J	1+99.09	3829.47	3829.42-AB

VIANNEY WAY CURB ELEVATIONS			
SYMBOL	STATION	TC ELEV.	TC ELEV.
A	0+9.98	3824.00	3824.15-AB
B	0+11.60	3823.62	3823.55-AB
C	0+38.41	3824.18	3824.20-AB
D	0+39.75	3824.19	3824.22-AB
E	1+16.16	3824.57	3824.63-AB
F	2+03.47	3824.95	3825.05-AB
G	2+18.18	3824.95	3825.10-AB
H	2+21.60	3824.88	3824.92-AB
I	2+37.74	3824.88	3825.04-AB
J	2+44.85	3825.05	3825.17-AB
K	2+61.26	3824.88	3825.06-AB

LEGEND
3829.90-AB DENOTES ASBUILT CONDITIONS
6-30-11



TOP OF ANA WAY EAST & WEST CURB & PVMT. ELEVATION
SCALE: HORIZ.-1"=20'
SCALE: VERT.-1"=10'

PIPE MATERIALS
PROPOSED POTABLE WATER PIPE C-900 PC305- 8" (PRESSURE CLASS WATER LINE)
PROPOSED SANITARY SEWER LINE SAR 35 - 8"
PROPOSED STORM SEWER PIPE ADS N-12 - 24"

TOP OF VIANNEY EAST & WEST CURB & PVMT. ELEVATION
SCALE: HORIZ.-1"=20'
SCALE: VERT.-1"=10'

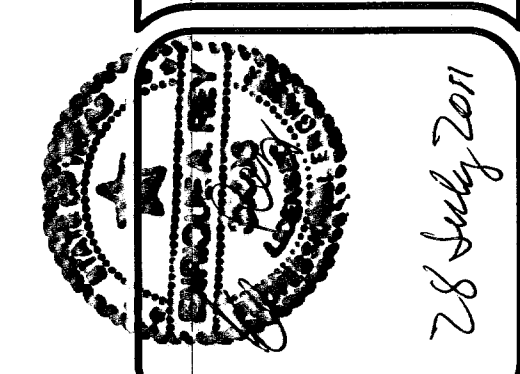
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DIANJOU PLACE IMPROVEMENTS
 EL PASO, TEXAS
 DIANJOU DRIVE

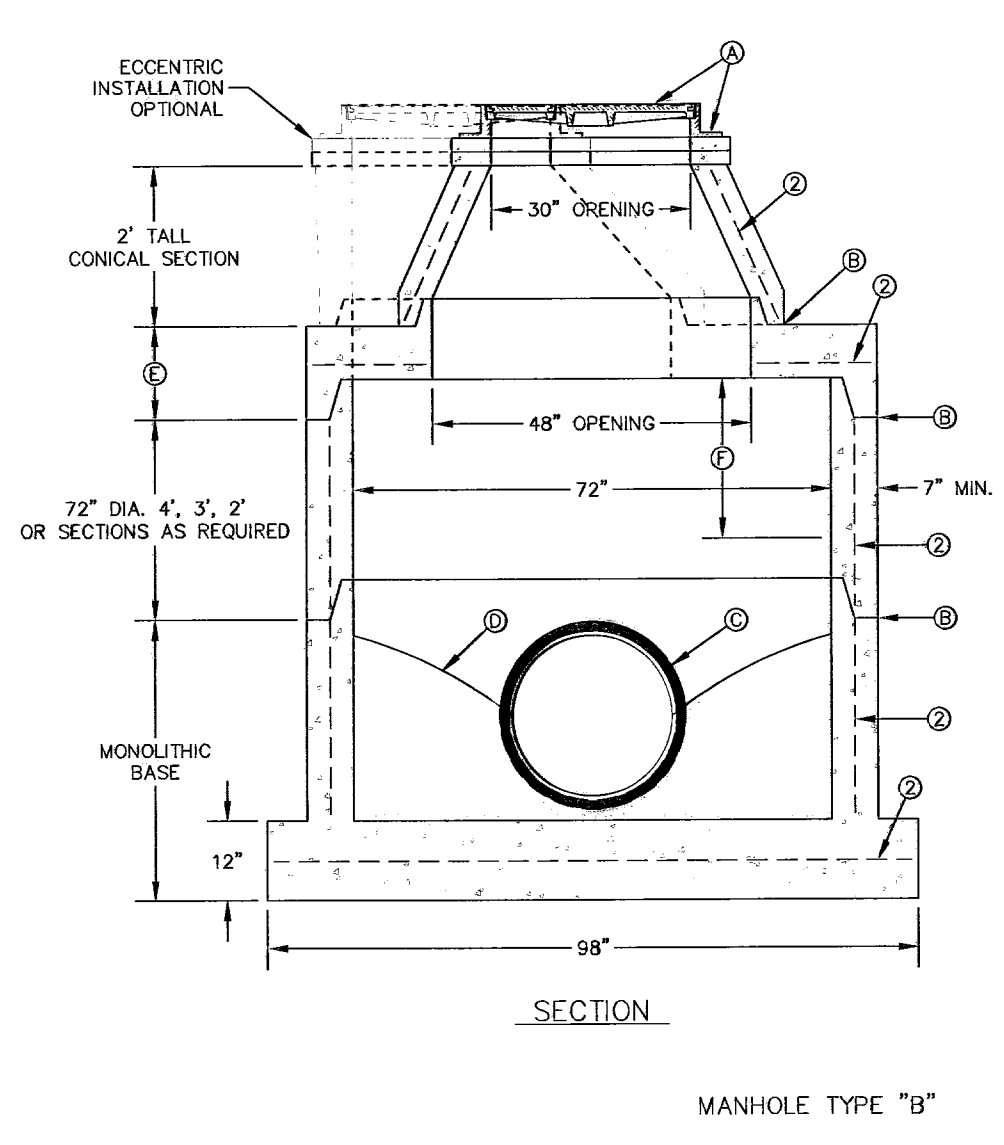


REY ENGINEERING
 Consulting Engineering & Surveying
 TEXAS FIRM REGISTRATION F-3368
 2287 TRAWOOD B-3, EL PASO, TX 79906
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SHEET TITLE
PROPOSED POTABLE WATER AND SANITARY SEWER DETAILS
C-8
 SHT. 12 OF 15

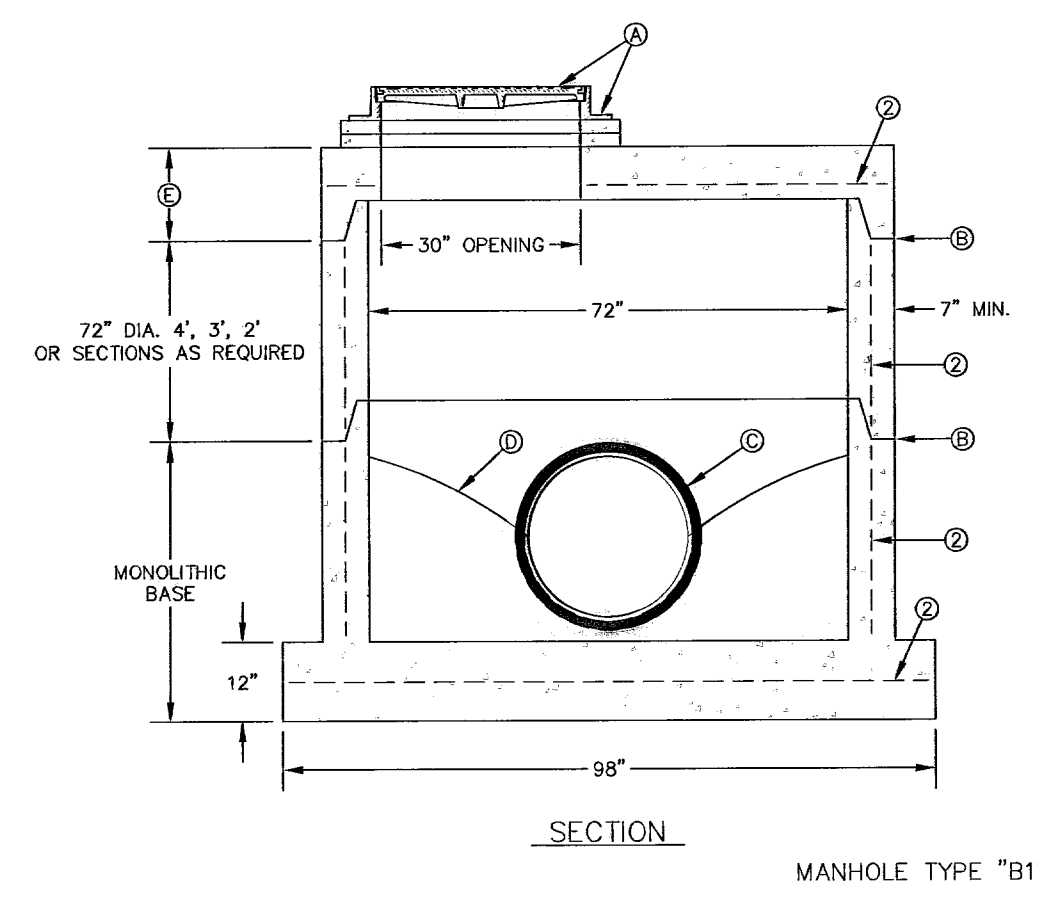
- GENERAL NOTES:**
- MANHOLE TYPE "C" SHALL BE USED FOR LINES 24" AND LARGER OR WHEN SEWER MONITORING EQUIPMENT IS REQUIRED.
 - PRE-CAST MANHOLE SECTIONS SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478 AND SHALL MEET HS-20 LOADING. PROVIDE REINFORCEMENT WITHIN 3" OPENINGS OR KNOCKOUTS, OPENINGS (UP TO 8") MADE IN FIELD SHALL BE CORE DRILLED.
 - CEMENT SHALL BE TYPE I-II, PER ASTM C-150, AND MUST CONTAIN A MINIMUM OF 4% FLY ASH OF THE TOTAL MANHOLE WEIGHT.
 - THE BASE & RISER SHALL BE INTEGRALLY CAST. CONCRETE SHALL BE MIN. 28 DAY COMPRESSIVE STRENGTH 4000psi.
 - MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
 - THE SUBGRADE UNDER THE BASE SHALL BE COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM D-1557.
 - MANHOLES BELOW GROUNDWATER TO BE EXTERNALLY AND INTERNALLY COATED WITH BITUMINOUS COATING.
 - CONC. SECTION REINFORCEMENT IN ACCORDANCE WITH ASTM C-478 (ECCENTRIC CONE APPLICATION SHOWN DASHED).
 - OTHER UTILITIES SHALL NOT BE INSTALLED ADJACENT TO THE CONE SECTION AND DIRECTLY ABOVE THE MANHOLE.

- CONSTRUCTION KEY NOTES:**
- MANHOLE RING AND COVER (SEE DETAILS 377 & 378). SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 185).
 - ALL JOINTS TO BE TONGUE, GROOVE AND SEALED WITH RAM-NEK OR APPROVED EQUAL.
 - PIPE OPENINGS/KNOCKOUTS AS REQUIRED TO FIT PIPE SIZE AND SHALL HAVE FLEXIBLE PIPE TO MANHOLE CONNECTORS (COMPRESSION TYPE ASTM-923), "KOR-N-SEAL" OR APPROVED EQUAL. GROUT AS REQUIRED.
 - ECCENTRIC/CONCENTRIC LID (ECCENTRIC SHOWN BOLD) WITH KEYS TOP, 8" THICK (SEE DETAIL 379-2).
 - MINIMUM 24" DISTANCE FROM BOTTOM OF LID TO TOP OF PIPE FOR DROP CONNECTION.



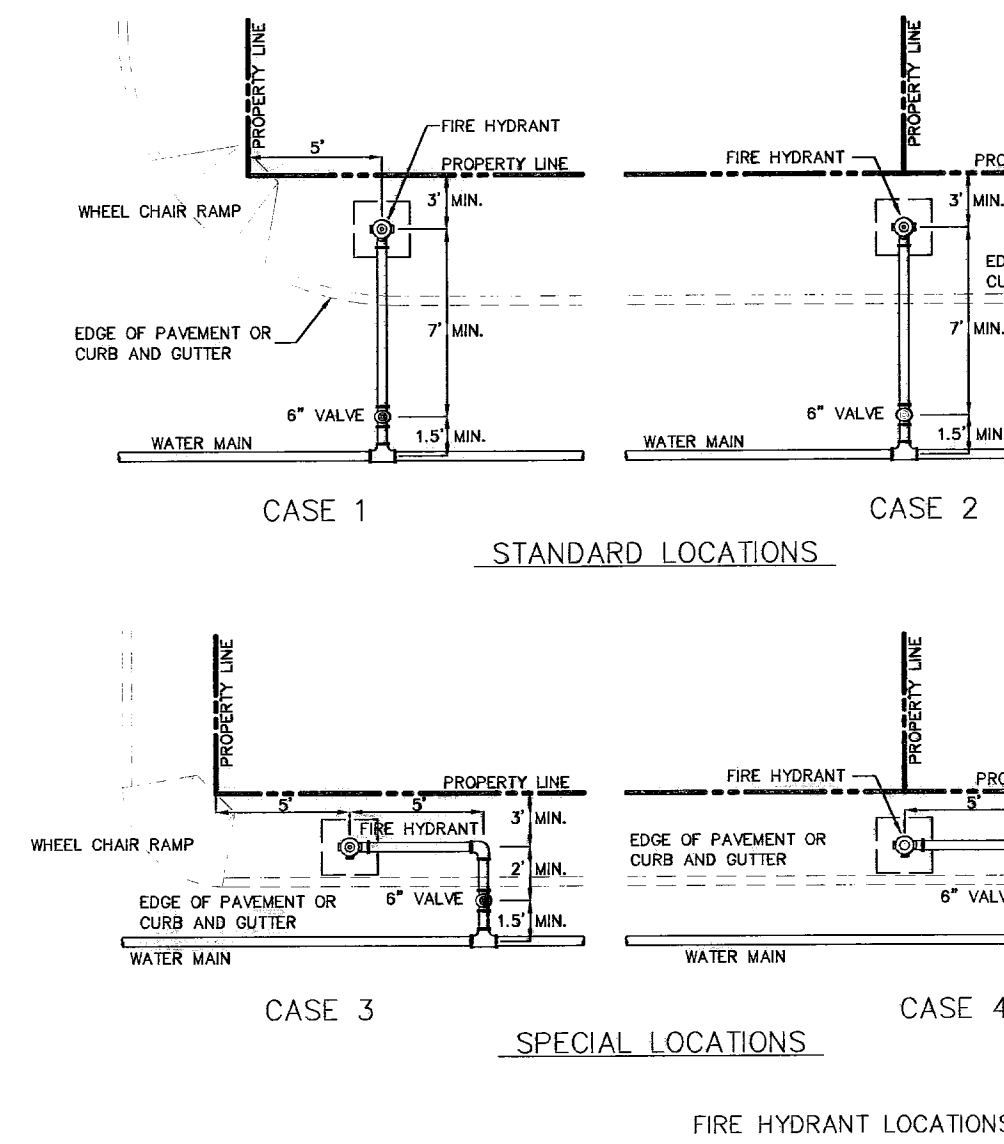
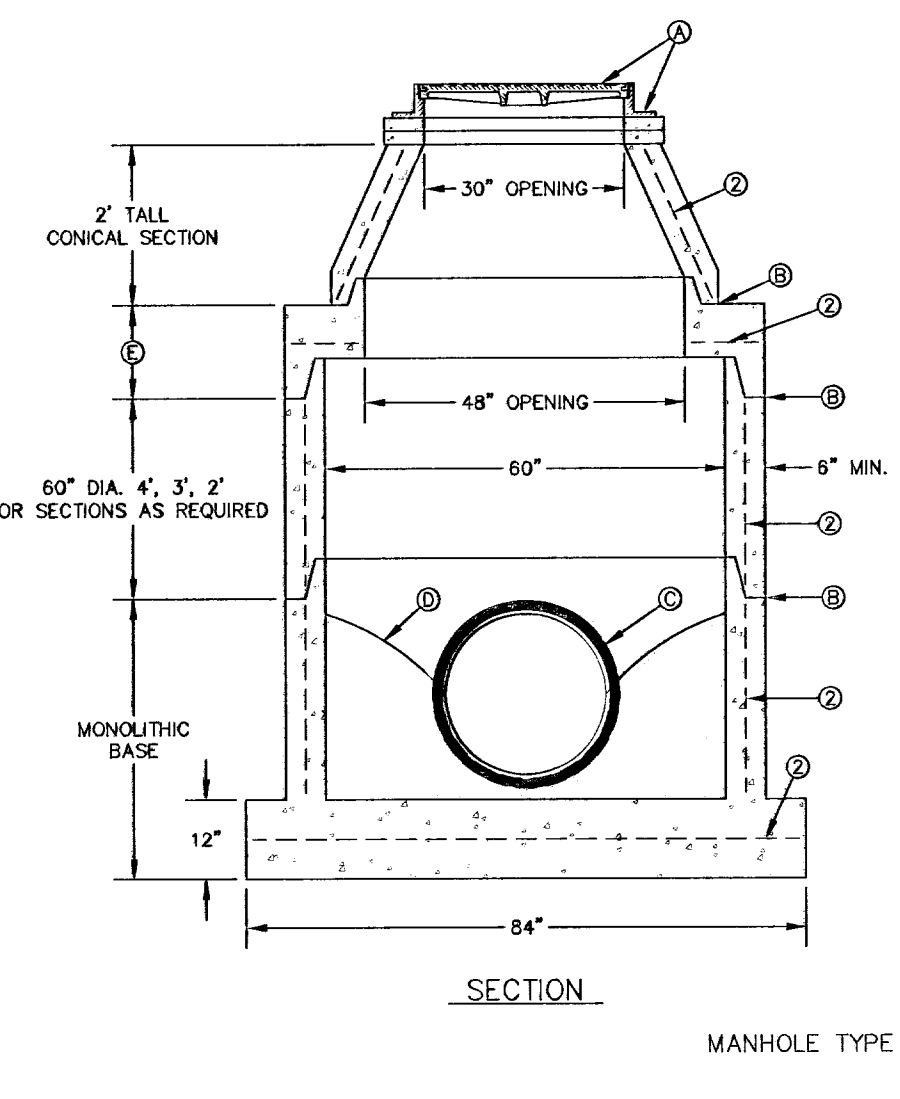
- GENERAL NOTES:**
- MANHOLE TYPE "B1" SHALL BE USED FOR LINES 24" AND LARGER AND SPECIAL LOADING CONDITIONS.
 - PRE-CAST MANHOLE SECTIONS SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478 AND SHALL MEET HS-20 LOADING. PROVIDE REINFORCEMENT WITHIN 3" OPENINGS OR KNOCKOUTS, OPENINGS (UP TO 8") MADE IN FIELD SHALL BE CORE DRILLED.
 - CEMENT SHALL BE TYPE I-II, PER ASTM C-150, AND MUST CONTAIN A MINIMUM OF 4% FLY ASH OF THE TOTAL MANHOLE WEIGHT.
 - THE BASE & RISER SHALL BE INTEGRALLY CAST. CONCRETE SHALL BE MIN. 28 DAY COMPRESSIVE STRENGTH 4000psi.
 - MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
 - THE SUBGRADE UNDER THE BASE SHALL BE COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM D-1557.
 - MANHOLES BELOW GROUNDWATER TO BE EXTERNALLY AND INTERNALLY COATED WITH BITUMINOUS COATING.

- CONSTRUCTION KEY NOTES:**
- MANHOLE RING AND COVER (SEE DETAILS 377 & 378). SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 185).
 - ALL JOINTS TO BE TONGUE, GROOVE AND SEALED WITH RAM-NEK OR APPROVED EQUAL.
 - PIPE OPENINGS/KNOCKOUTS AS REQUIRED TO FIT PIPE SIZE AND SHALL HAVE FLEXIBLE PIPE TO MANHOLE CONNECTORS (COMPRESSION TYPE ASTM-923), "KOR-N-SEAL" OR APPROVED EQUAL. GROUT AS REQUIRED.
 - ECCENTRIC/CONCENTRIC LID (ECCENTRIC SHOWN BOLD) WITH KEYS TOP, 8" THICK (SEE DETAIL 379-1).



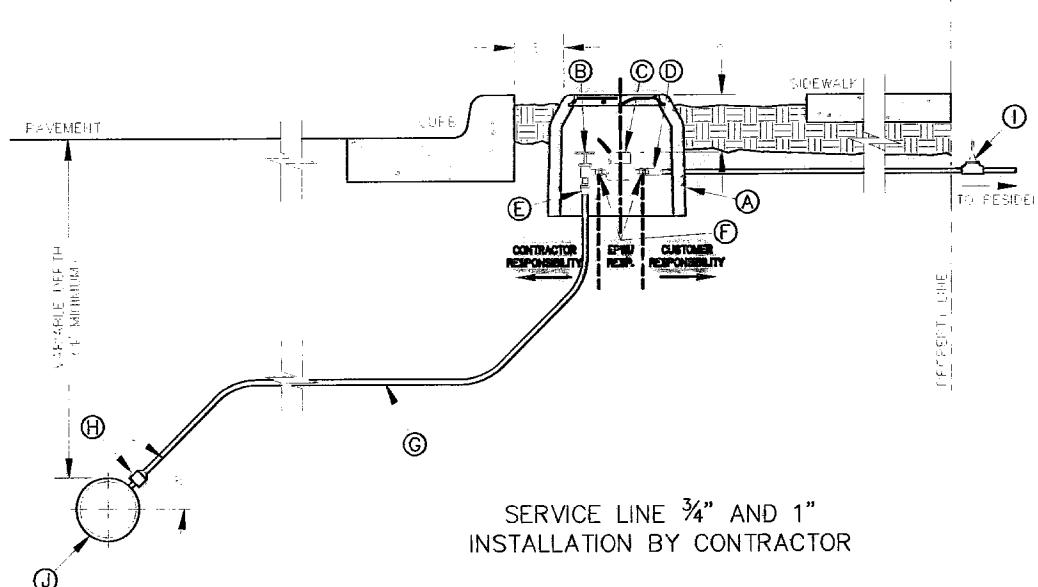
- GENERAL NOTES:**
- MANHOLE TYPE "C" SHALL BE USED FOR LINES 24" AND LARGER WITHIN TYPOT ROW. TYPE "C" SHALL BE LARGEST ALLOWABLE MANHOLE SIZE WITHIN TYPOT ROW.
 - PRE-CAST MANHOLE SECTIONS SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478 AND SHALL MEET HS-20 LOADING. PROVIDE REINFORCEMENT WITHIN 3" OPENINGS OR KNOCKOUTS, OPENINGS (UP TO 8") MADE IN FIELD SHALL BE CORE DRILLED.
 - CEMENT SHALL BE TYPE I-II, PER ASTM C-150, AND MUST CONTAIN A MINIMUM OF 4% FLY ASH OF THE TOTAL MANHOLE WEIGHT.
 - THE BASE & RISER SHALL BE INTEGRALLY CAST. CONCRETE SHALL BE MIN. 28 DAY COMPRESSIVE STRENGTH 4000psi.
 - MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
 - THE SUBGRADE UNDER THE BASE SHALL BE COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM D-1557.
 - MANHOLES BELOW GROUNDWATER TO BE EXTERNALLY AND INTERNALLY COATED WITH BITUMINOUS COATING.
 - DEPTHS OVER 14' SHALL HAVE STRENGTHENED WALLS (REFER TO CONTRACT DRAWINGS OR SPECIFICATIONS).

- CONSTRUCTION KEY NOTES:**
- MANHOLE RING AND COVER (SEE DETAILS 377 & 378). SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 185).
 - ALL JOINTS TO BE TONGUE, GROOVE AND SEALED WITH RAM-NEK OR APPROVED EQUAL.
 - PIPE OPENINGS/KNOCKOUTS AS REQUIRED TO FIT PIPE SIZE AND SHALL HAVE FLEXIBLE PIPE TO MANHOLE CONNECTORS (COMPRESSION TYPE ASTM-923), "KOR-N-SEAL" OR APPROVED EQUAL. GROUT AS REQUIRED.
 - ECCENTRIC/CONCENTRIC LID WITH KEYS TOP, 8" THICK (SEE DETAIL 379-2).



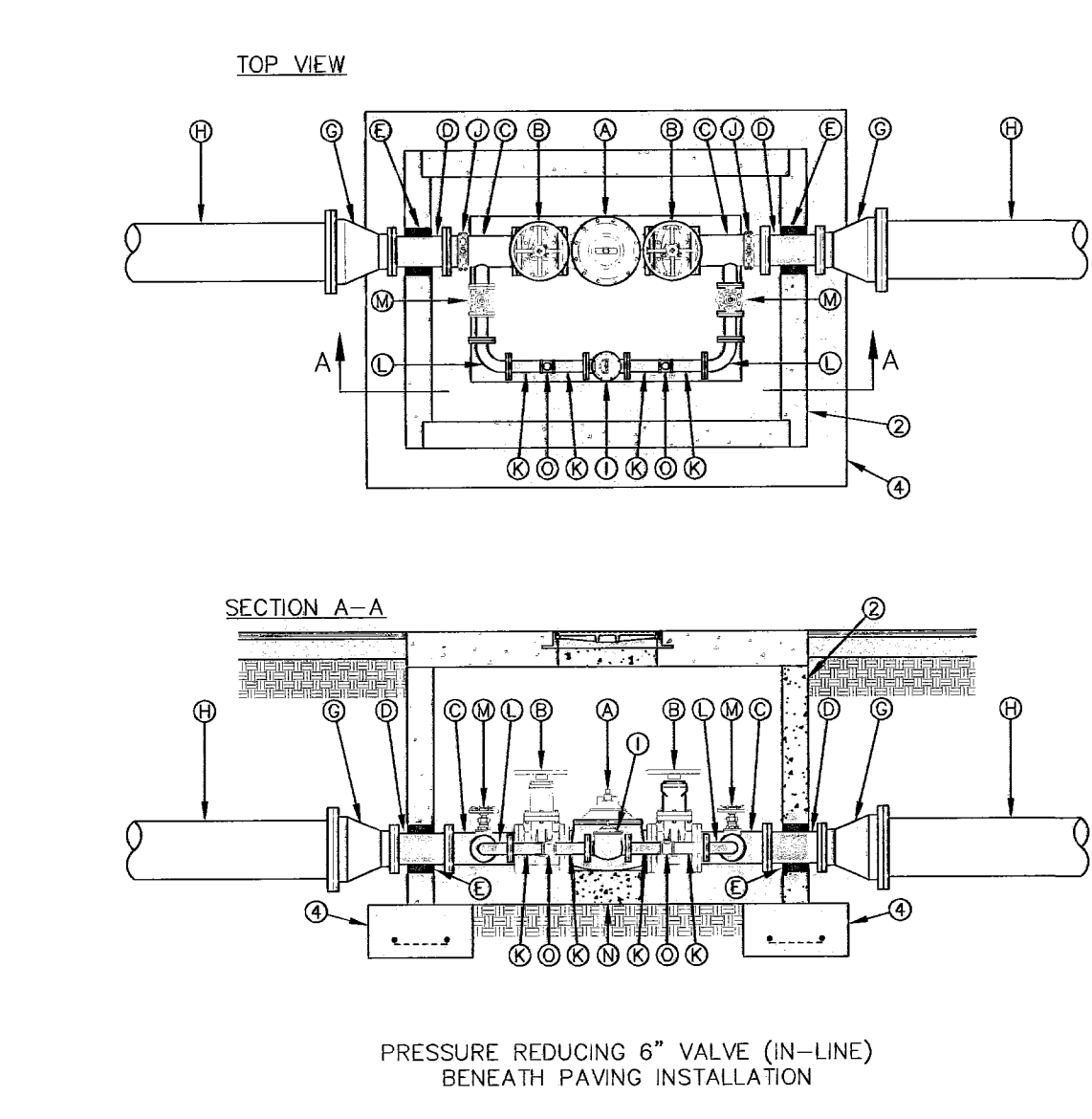
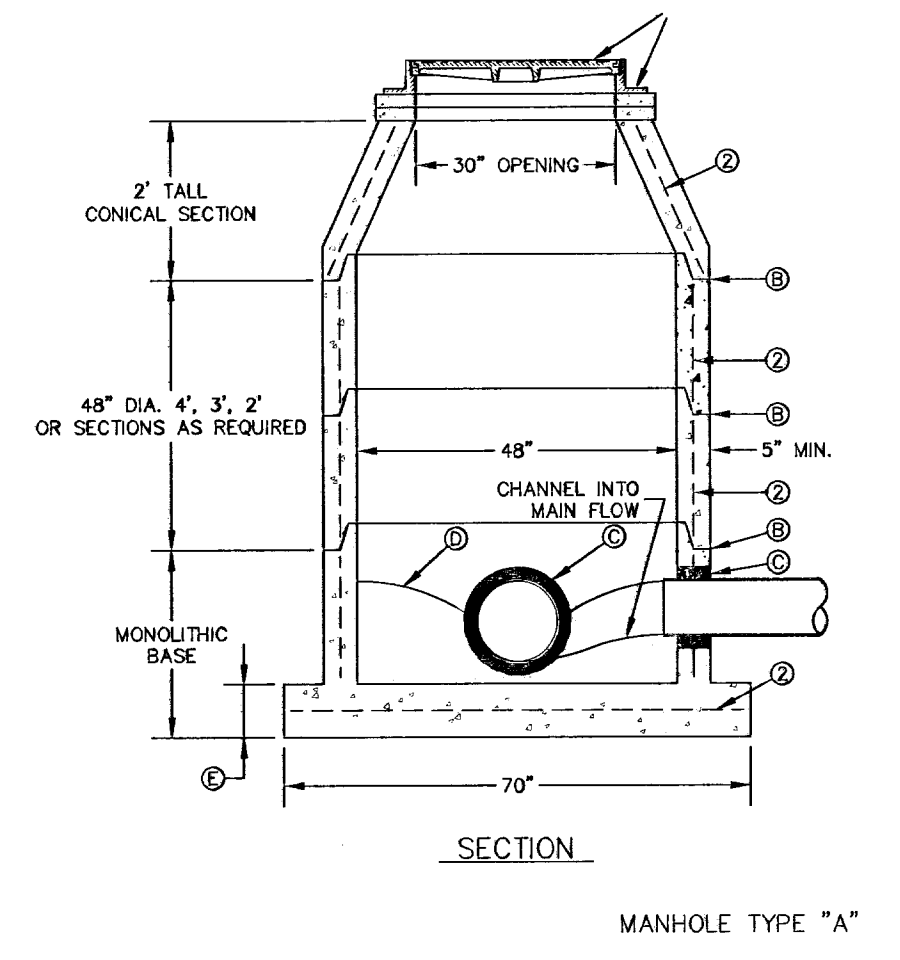
- GENERAL NOTES:**
- FOR CASE 1 FIRE HYDRANT SHALL BE LOCATED AT A DISTANCE OF 5 FT. MINIMUM FROM THE PROPERTY LINE OR AT THE BEGINNING OF CURB RETURN.
 - FOR CASE 2 FIRE HYDRANT SHALL BE LOCATED AT THE PROPERTY LINE COMMON TO ADJOINING LOTS.
 - FOR CASE 3 AND 4, PLACE THE DISTANCE BETWEEN THE VALVE AND THE HYDRANT IS LESS THAN 7 FT. PLACE HYDRANT AS SHOWN.
 - FOR INSTALLATION OF FIRE HYDRANT SEE DETAIL 280-1 OR 280-2.
 - A MINIMUM CLEARANCE OF 3 FT. WILL BE PROVIDED BETWEEN A FIRE HYDRANT AND A PERMANENT OBSTRUCTION (UTILITY POLE, LIGHT STANDARD, TRAFFIC SIGNAL, WHEEL CHAIR RAMP, FENCE PROTECTIVE POSTS, ETC).
 - WHEN INSTALLATION IS WITHIN TYPOT RIGHT OF WAY, HYDRANT SHALL NOT BE PLACED IN SIDEWALK AREA OR ANY CLOSER THAN 5' FROM BACK OF CURB.

- GENERAL NOTES:**
- DETAIL SHOWN FOR A 3/4" SERVICE. 1" SERVICE INSTALLATION IS SIMILAR EXCEPT FOR SIZES OF PIPE, FITTING, METER AND BOX (TYPE 87).
 - WHERE NO CURB EXISTS, METER IS TO BE SET NEAR PROPERTY LINE OR AT DESIGNATED LOCATION.
 - THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY PIPE, FITTINGS, AND METER BOXES REQUIRED. IT SHALL BE THE RESPONSIBILITY OF THE PRIVATE OWNER TO HAVE A CERTIFIED PLUMBER INSTALL A BACKFLOW PREVENTER AND EXTEND SERVICE LINE ON DISCHARGE SIDE OF METER.
 - NO SPRUNG SHALL BE ALLOWED. FULL LENGTH OF PIPING SERVICE SHALL BE INSTALLED.
 - THE EPWU WILL FURNISH AND INSTALL THE METER.
- CONSTRUCTION KEY NOTES:**
- METER BOX TYPE "A" (SEE DETAILS 300 & 301) SHALL BE SET SLIGHTLY HIGHER THAN SURROUNDING GROUND OR AT CURB LEVEL.
 - 3/4" ANGLE SERVICE VALVE.
 - WATER METER (CENTER INSIDE METER BOX).
 - WHEN REQUIRED BY EPWU, A DUAL CHECK BACKFLOW PREVENTER SHALL BE INSTALLED ON THE OUTLET SIDE OF THE METER.
 - END FLARE OF SERVICE LINE.
 - INLET AND OUTLET COUPLING.
 - 3/4" COPPER SERVICE LINE (SEE NOTE 4).
 - 5/8" X 3/4" CORPORATION STOP.
 - PRESSURE REGULATOR (SOMETIMES LOCATED NEAR THE RESIDENCE).
 - WATER MAIN.

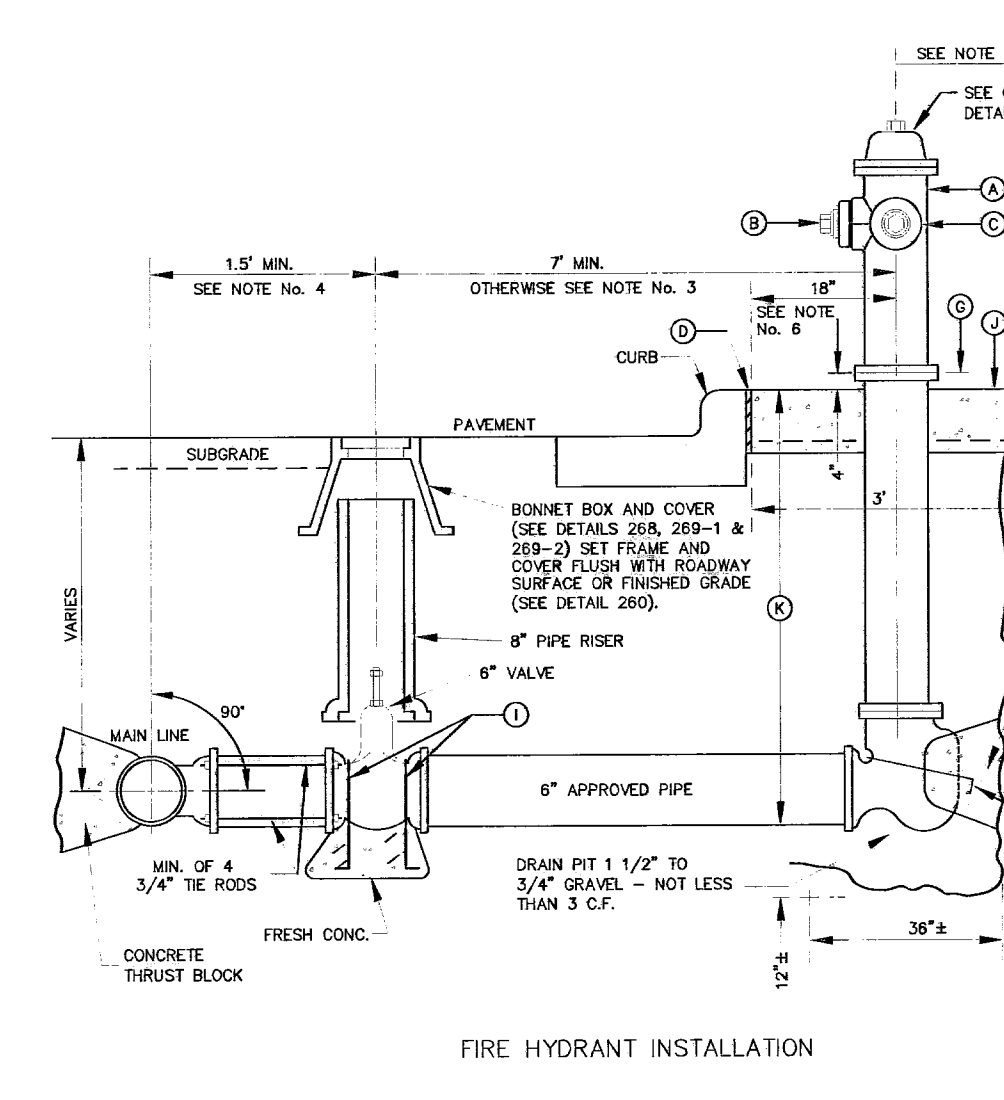


- GENERAL NOTES:**
- MANHOLE TYPE "A" SHALL BE USED FOR LINES 21" AND SMALLER.
 - PRE-CAST MANHOLE SECTIONS SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478 AND SHALL MEET HS-20 LOADING. PROVIDE REINFORCEMENT WITHIN 3" OPENINGS OR KNOCKOUTS, OPENINGS (UP TO 8") MADE IN FIELD SHALL BE CORE DRILLED.
 - CEMENT SHALL BE TYPE I-II, PER ASTM C-150, AND MUST CONTAIN A MINIMUM OF 4% FLY ASH OF THE TOTAL MANHOLE WEIGHT.
 - THE BASE & RISER SHALL BE INTEGRALLY CAST. CONCRETE SHALL BE MIN. 28 DAY COMPRESSIVE STRENGTH 4000psi.
 - MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
 - THE SUBGRADE UNDER THE BASE SHALL BE COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM D-1557.
 - MANHOLES BELOW GROUNDWATER TO BE EXTERNALLY AND INTERNALLY COATED WITH BITUMINOUS COATING.

- CONSTRUCTION KEY NOTES:**
- MANHOLE RING AND COVER (SEE DETAILS 377 & 378). SET FRAME AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE DETAIL 185).
 - ALL JOINTS TO BE TONGUE, GROOVE AND SEALED WITH RAM-NEK OR APPROVED EQUAL.
 - PIPE OPENINGS/KNOCKOUTS AS REQUIRED TO FIT PIPE SIZE AND SHALL HAVE FLEXIBLE PIPE TO MANHOLE CONNECTORS (COMPRESSION TYPE ASTM-923), "KOR-N-SEAL" OR APPROVED EQUAL. GROUT AS REQUIRED.
 - CONCRETE BASE SHALL BE 8" FOR MH'S UP TO 12' DEEP AND 12" FOR DEPTHS GREATER THAN 12'.



- GENERAL NOTES:**
- INSTALLATION SHALL GENERALLY BE FOR A MAIN-LINE 12" AND SMALLER. INSTALLATION OF OTHER SIZED VALVES IS SIMILAR.
 - VALVE VAULT SHALL BE TYPE "F". SEE DETAIL 285-2. FOR PRESSURE REDUCING VALVES LARGER THAN 6", VAULT SIZE SHALL BE INCREASED TO ACCOMMODATE LARGER APPURTENANCES. LARGER VAULT DIMENSIONS MUST BE APPROVED BY THE EPWU.
 - PRESSURE RELIEF VALVE MAY BE LOCATED EITHER UPSTREAM OR DOWNSTREAM OF PRESSURE REDUCING VALVE DEPENDING ON A SUITABLE DISCHARGE LOCATION. WHEN RELIEF VALVE IS LOCATED DOWNSTREAM REDUCING VALVE SHALL BE EQUIPPED WITH A PRESSURE RELIEF PILOT AS NOTED IN A AND N. RELIEF VALVE SIZE IS GENERALLY ONE OR TWO SIZES SMALLER THAN THE SIZE OF THE MAINLINE. SEE EPWU STANDARD DETAILS 285-1 THROUGH 285-B FOR INSTALLATION.
 - 12"x24" FOOTING WITH NO. 5 REBAR AT 12" ON CENTER EACH WAY IS REQUIRED.
 - TEST OUTLETS TO BE PLACED BEFORE AND AFTER PRESSURE REDUCERS. SEE DETAIL 284-5 FOR TEST OUTLET DETAIL.
- CONSTRUCTION KEY NOTES:**
- 6" FLANGED PRESSURE VALVE WITH SURGE RELIEF PILOT, FOR HIGH FLOWS.
 - 6" FLANGED GATE VALVE WITH HANDWHEEL.
 - 6"x2" FLANGED TEE.
 - 6" DUCTILE IRON FLANGED SPOOL.
 - WALL SLEEVES AND/OR GROUT.
 - FLANGED REDUCER (6" X MAINLINE SIZE AS SPECIFIED).
 - MAINLINE, SIZE AS SPECIFIED.
 - 2" FLANGED PRESSURE REDUCING VALVE, WITH SURGE RELIEF PILOT, FOR LOW FLOWS.
 - 6"x3/4" TAPPING SADDLE & 3/4" TEST OUTLET WITH CORPORATION STOP.
 - 2" FLANGED BRASS OR DUCTILE IRON SPOOL.
 - 2" FLANGED 90° BEND.
 - 2" GATE VALVE WITH HANDWHEEL.
 - VALVES INSTALLED ON NATURAL GROUND WITH CONCRETE SUPPORTS AS REQUIRED.
 - 2"x1" BRONZE TEE WITH 1" TO 3/4" ADAPTER & 3/4" TEST OUTLET WITH CORPORATION STOP.

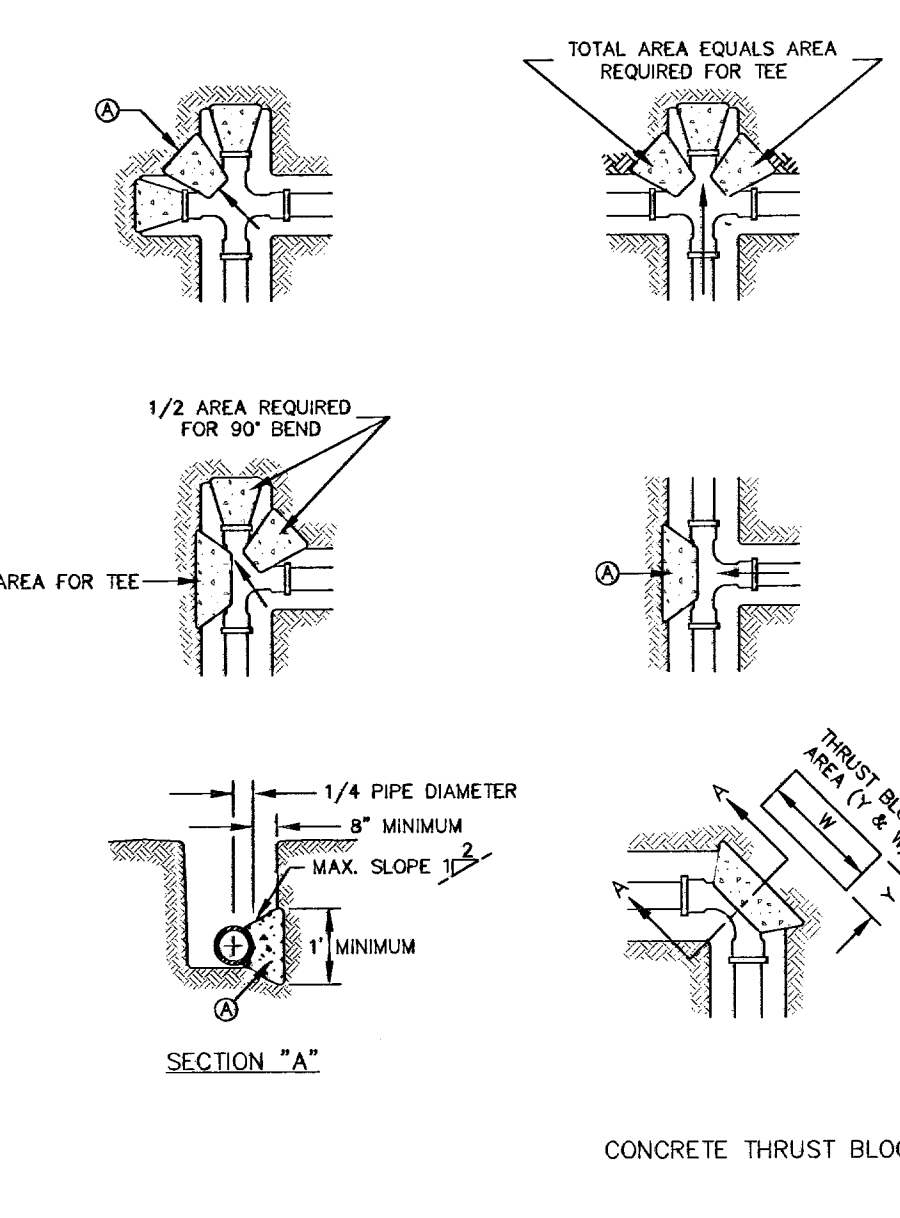


- GENERAL NOTES:**
- NO OBSTRUCTIONS WILL BE PERMITTED WITHIN 5 FT. IN ALL DIRECTIONS OF FIRE HYDRANT (PER EL PASO MUNICIPAL CODE, TITLE 12). FIRE HYDRANT SHALL NOT BE PLACED IN WHEEL CHAIR RAMP OR DRIVEWAY.
 - FIRE HYDRANT SHALL BE LOCATED AT THE BEGINNING OF CURB RETURN OR AT THE PROPERTY LINE COMMON TO ADJOINING LOTS, UNLESS OTHERWISE SHOWN ON PLANS. REFER TO DETAIL No. 282 FOR SPECIAL CASES.
 - IF DISTANCE IS LESS THAN 7', HYDRANT SHALL BE INSTALLED IN ACCORDANCE WITH DETAIL No. 282.
 - VALVE MAY BE CONNECTED TO TEE AT MAIN LINE. USE FLANGED MECHANICAL JOINT ENDS. WHERE SPOOL IS REQUIRED BETWEEN TEE AND VALVE, USE FLANGED MECHANICAL ENDS WITH 4" DIAMETER THE RODS.
 - COMPLY WITH REQUIREMENTS OF ANNA C-500, DRY BARREL FIRE HYDRANTS AND ANNA C-550, PROTECTIVE EPOXY INTERIOR COATINGS FOR VALVES AND HYDRANTS.
 - WHEN INSTALLATION IS WITHIN TYPOT RIGHT OF WAY, HYDRANT SHALL NOT BE PLACED IN SIDEWALK AREA OR ANY CLOSER THAN 5' FROM BACK OF CURB.
- CONSTRUCTION KEY NOTES:**
- FIRE HYDRANT PER SPEC'S.
 - PUMPER NOZZLE 4 1/2" TO BE FACING THE TRAVELED EARTH.
 - WAY, UNLESS OTHERWISE NOTED IN THE PLANS.
 - HOSE NOZZLE 2 1/2".
 - 3" UNDRERMINED EXPANSION JOINT WITH 1" TOP FILLER.
 - 5"x5"x8" CONC. SQ. PAD, TO BE CONSTRUCTED AROUND FIRE HYDRANT'S CENTER LINE WHEN NOT LOCATED WITHIN SIDEWALK OR CONC. AREA.
 - #10 4/8 WIRE.
 - CONTROLLED ELEVATION LINE, LEVEL IN ALL DIRECTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING TOP FLANGE OF THE HYDRANT TO CONTROLLED ELEVATION.
 - CONC. THRUST BLOCK, APPROX. 2'x2'x3' TO BE POURED AGAINST UNDISTURBED EARTH. F.H. WEEP HOLE MUST BE UNDISTURBED.
 - 2"x1/4" STEEL ANCHOR PINS.
 - TOP OF SLAB SHALL BE AT CURB LEVEL 4" BELOW THE BREAK LINE OF THE HYDRANT, UNDER SPECIAL CONDITIONS THE ENGINEER MAY ALLOW VARIATIONS TO THIS CONSTRUCTION.
 - CONTRACTOR IS TO PROVIDE ADDITIONAL SPOOLS IF NEEDED TO MAINTAIN THE 4" MIN. CLEARANCE FROM THE CONTROLLED ELEV. LINE TO TOP OF SLAB.

- GENERAL NOTES:**
- TABLE IS BASED ON 2000#/SQ. FT. SOIL. IF CONDITIONS ARE FOUND TO INDICATE SOIL BEARING IS LESS, THE AREAS SHALL BE INCREASED ACCORDINGLY.
 - AREAS FOR PIPE LARGER THAN 18" SHALL BE CALCULATED.
 - CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 2500 PSI.
 - THRUST BLOCK IS TO EXTEND TO UNDISTURBED SOIL.
 - SIZE MAY BE DECREASED FOR LESSER DEGREE BENDS AS DETERMINED BY ENGINEER.
 - KEEP CONCRETE CLEAR OF M.J. OR BELL AND SPOOT JOINTS.
 - BLOCK IN A SIMILAR MANNER AT TEES, HYDRANTS, PLUG OR OTHER LOCATIONS AS REQUIRED.
 - WHEN NECESSARY ADDITIONAL THRUST RESTRAINT METHODS MAY BE USED, SUCH AS MECHANICAL JOINT RESTRAINTS, TEE-RODS (INSTALLED PER MANUFACTURERS' RECOMMENDATIONS) OR OTHER APPROVED METHODS.

- CONSTRUCTION KEY NOTES:**
- LENGTH "Y" & "W" AS REQUIRED TO OBTAIN BEARING AREA AGAINST UNDISTURBED SOIL.
 - ADDITIONAL EXCAVATION IF NECESSARY TO OBTAIN REQUIRED BEARING AREA.
 - MINIMUM THRUST BLOCK AREA REQUIREMENTS FOR (Y & W) AS FOLLOWS:

PIPE SIZE	WATER PIPE	SEWER PIPE
4" & LESS	3 SQ. FEET	22 1/2" BENDS
6"	4 SQ. FEET	3 SQ. FEET
8"	6 SQ. FEET	3 SQ. FEET
10"	9 SQ. FEET	5 SQ. FEET
12"	13 SQ. FEET	7 SQ. FEET
16"	23 SQ. FEET	12 SQ. FEET
18"	29 SQ. FEET	15 SQ. FEET



REVISIONS

03-29-10
05-05-10
07-16-10
07-21-10

PROJECT ARCHITECT	
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DATE	10-17-09
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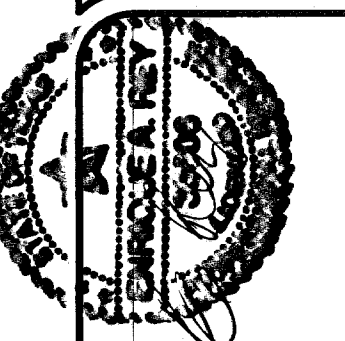
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PROJECT NAME

DIANJOU PLACE IMPROVEMENTS

EL PASO, TEXAS

DIANJOU DRIVE



28 July 2010

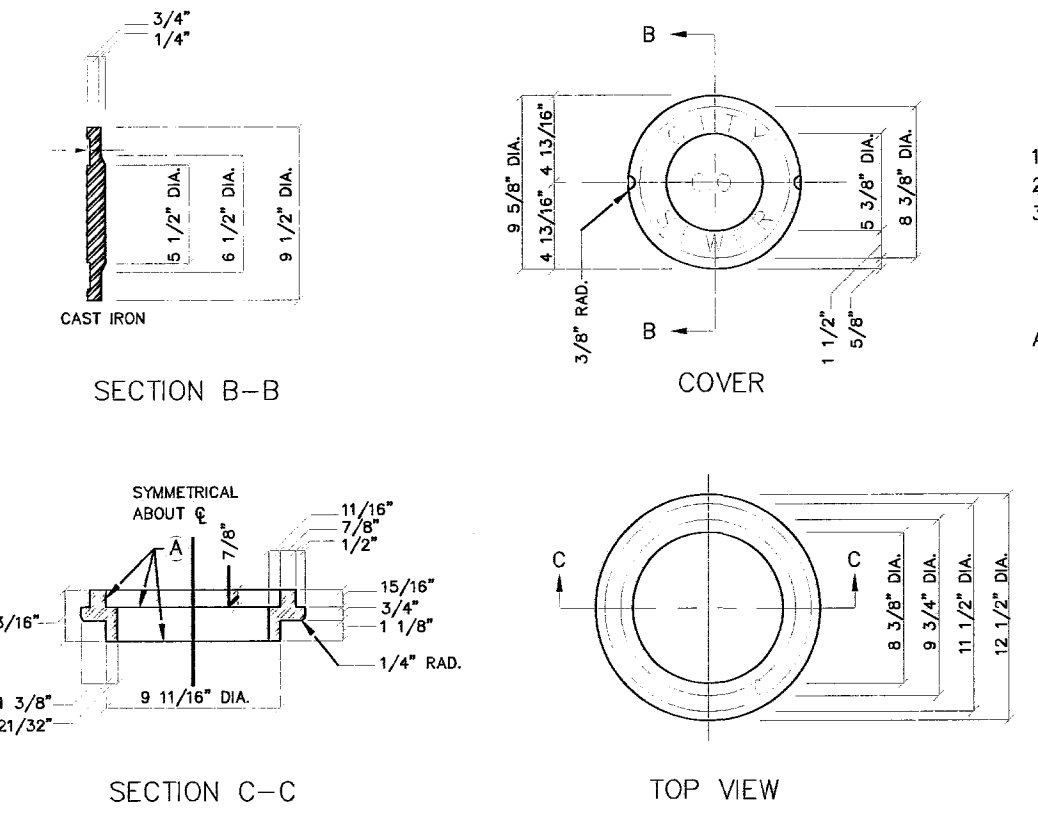
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 Consulting Engineering & Surveying
 TEXAS FIRM REGISTRATION # 3368
 2267 IRVING BLVD., EL PASO, TEXAS 79936
 TEL OFFICE (915) 635-7080 MOBILE (915) 309-1899

SHEET TITLE

PROPOSED POTABLE WATER AND SANITARY SEWER DETAILS

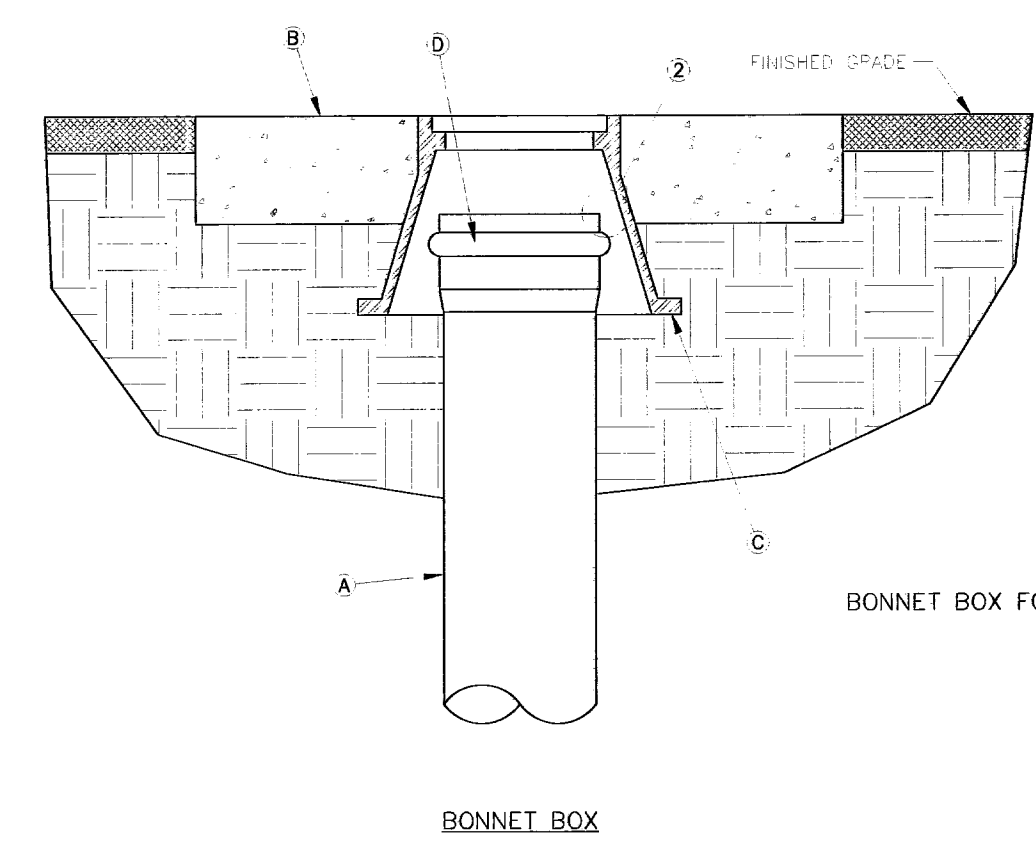
C-9

SHT. 13 OF 15



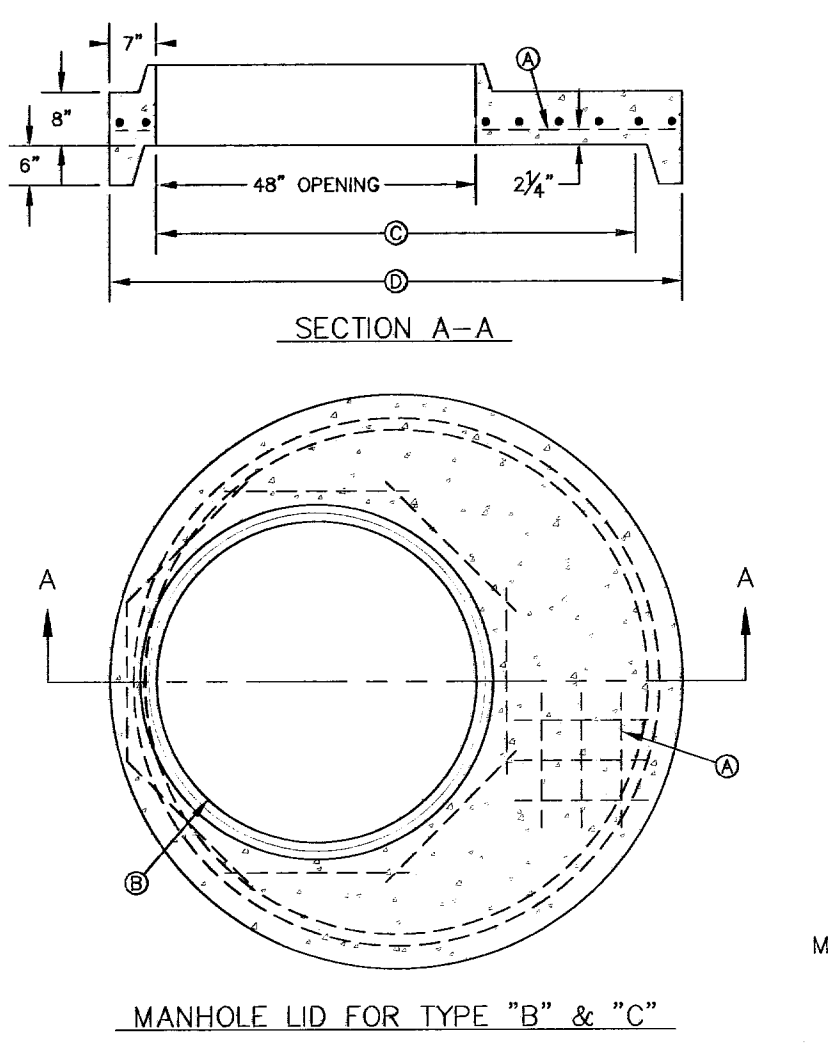
GENERAL NOTES:
 1. CASTINGS TO BE SMOOTH AND VOID OF AIR HOLES.
 2. WEIGHT OF BONNET BOX EXTENSION IS 25 POUNDS.
 3. WEIGHT OF COVER IS 10 POUNDS.

CONSTRUCTION KEY NOTES:
 A. TO BE ROUGH GROUND OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.



GENERAL NOTES:
 1. FOR BONNET BOX DIMENSIONS SEE DET 28B.
 2. PIPE BELL END TO FIT SNUGLY AGAINST INTERIOR OF BONNET BOX.

CONSTRUCTION KEY NOTES:
 A. 8" P.V.C. SDR 35
 B. 3"x3" CONCRETE COLLAR
 C. BONNET BOX
 D. 8" BELL END

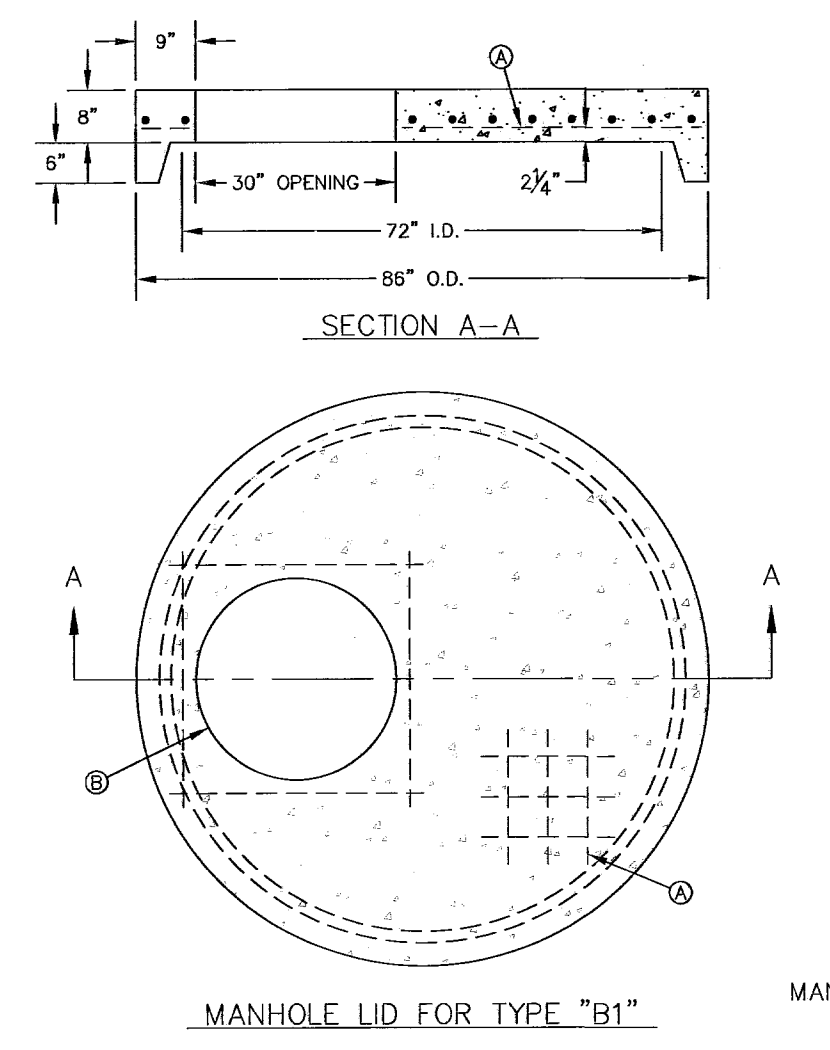


GENERAL NOTES:
 1. FLAT TOP MANHOLE LID WITH KEYS TOP SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478. CEMENT SHALL BE TYPE I-II, PER ASTM C-150, AND MUST CONTAIN A MINIMUM OF 4% FLY ASH OF THE TOTAL LID WEIGHT.
 2. CONCRETE SHALL BE MIN. 28 DAY COMPRESSIVE STRENGTH 4000psi.
 3. MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
 4. REINFORCING SHALL MEET A.S.T.M. C478-87 AND TRAFFIC LOADING (HS-20).

CONSTRUCTION KEY NOTES:
 A. #5 REBAR 6" O.C./E.W.
 B. 48" OPENING, OPTIONAL PLACEMENT OF OPENING MAY BE ECCENTRIC (SHOWN) OR CONCENTRIC.

MANHOLE LID	MANHOLE TYPE "B"	MANHOLE TYPE "C"
C	72" I.D.	60" I.D.
D	86" O.D.	72" O.D.

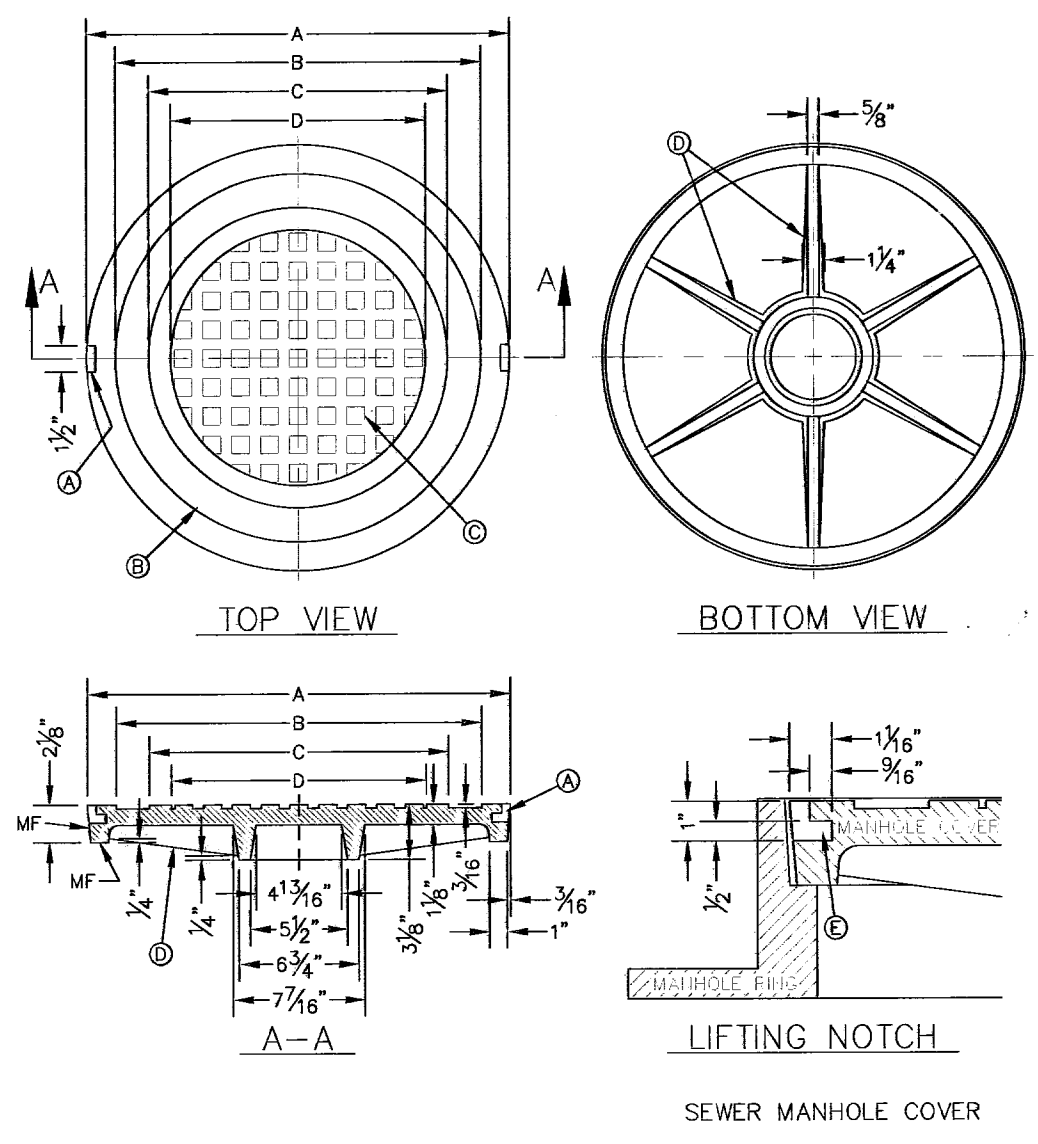
MANHOLE ECCENTRIC/CONCENTRIC CONCRETE LID FOR TYPE "B" & "C" MANHOLES



GENERAL NOTES:
 1. FLAT TOP MANHOLE LID SHALL BE OF REINFORCED CONCRETE CONFORMING TO ASTM C-478. CEMENT SHALL BE TYPE I-II, PER ASTM C-150, AND MUST CONTAIN A MINIMUM OF 4% FLY ASH OF THE TOTAL LID WEIGHT.
 2. CONCRETE SHALL BE MIN. 28 DAY COMPRESSIVE STRENGTH 4000psi.
 3. MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
 4. REINFORCING SHALL MEET A.S.T.M. C478-87 AND TRAFFIC LOADING (HS-20).
 5. RING & COVER OR SPECIAL LIDS TO MEET REQUIREMENTS, MAY BE CAST IN PLACE.

CONSTRUCTION KEY NOTES:
 A. #5 REBAR 6" O.C./E.W.
 B. 30" OPENING, SIZE TO ACCOMMODATE MANHOLE RING (SEE DETAIL 377), OPTIONAL PLACEMENT OF OPENING MAY BE ECCENTRIC (SHOWN) OR CONCENTRIC.

MANHOLE ECCENTRIC/CONCENTRIC CONCRETE LID FOR TYPE "B1" MANHOLE



GENERAL NOTES:
 1. MATCHING SURFACES MARKED "MF" TO BE FINISHED TO ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
 3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
 4. AS-CAST DIMENSIONS MAY VARY 1/8"± PER FOOT (AASHTO M306-07).
 5. WEIGHT MAY VARY 5%± (AASHTO M306-07).

CONSTRUCTION KEY NOTES:
 A. LIFTING NOTCH
 B. 1/4" RAISED LETTERING
 C. 1" SQUARES (1" TALL) WITH 1/8" SPACE BETWEEN
 D. REINFORCING REBS.
 E. SLOTT.

MANHOLE COVER	MANHOLE - ALL TYPES	*MANHOLE TYPE A, A1, A2 & C
A	31 3/4"	23 1/4"
B	28 1/2"	20 3/4"
C	24 3/8"	16 7/8"
D	21 3/8"	14 3/8"
WEIGHT	265 lbs.	165 lbs.

*OBsolete - DO NOT USE (FOR REFERENCE ONLY)

600829

SPECIFICATIONS FOR ALUMINUM SIGN BLANKS

THESE SPECIFICATIONS DESCRIBE DETAILS AND MINIMUM REQUIREMENTS FOR ALUMINUM SIGN BLANKS, TO WHICH REFLECTIVE SHEETING WILL BE APPLIED.

1. ALL MATERIALS SHALL BE NEW AND UNWEATHERED AND SHALL BE OF DOMESTIC ORIGIN, MILLED, ROLLED, AND FINISHED IN DOMESTIC MILLS.
2. SIGN BLANKS SHALL BE 0.080 GAUGE ALUMINUM ALLOYED/TREATED ALUMINUM, 5052-H38 ALLOY, FREE OF BURRS, CORROSION, WHITE RUST, AND DIRT, SUITABLE FOR APPLICATION OF REFLECTIVE SHEETING WITHOUT FURTHER PREPARATION.
3. EDGES OF BLANKS SHALL BE CUT TRUE AND SQUARE. CORNER RADIUS, HOLE DIAMETERS AND HOLE LOCATIONS SHALL BE AS DESCRIBED IN THIS ALUMINUM SIGN BLANK BID D.H.T. STANDARDS.
4. ALL SIGN BLANKS WILL BE TREATED AS FOLLOWS:

A. DEGREASING

(1) **VAPOR DEGREASING** - BY TOTAL IMMERSION OF THE SIGN BLANK IN A SATURATED VAPOR OF TRICHLOROETHYLENE OR PERCHLOROETHYLENE. TRADEMARK PRINTING SHALL BE REMOVED WITH LAQUER THINNER BEFORE DEGREASING.

OR

(2) **ALKALINE DEGREASING** - BY TOTAL IMMERSION OF THE SIGN BLANK IN A TANK CONTAINING ALKALINE SOLUTIONS, CONTROLLED AND TITRATED TO THE SOLUTION MANUFACTURER'S SPECIFICATIONS FOR TIME, TEMPERATURE, AND CONCENTRATION. IMMERSION TIME SHALL DEPEND UPON THE AMOUNT OF SOIL PRESENT, GAUGE OF THE METAL AND SOLUTION STRENGTH. RINSE THOROUGHLY WITH RUNNING WATER.

B. ETCHING

(1) **ACID ETCH** - ETCH WELL IN 6-8% PHOSPHORIC ACID SOLUTION AT 100 DEGREES FAHRENHEIT OR PROPRIETARY ACID ETCHING SOLUTION. RINSE THOROUGHLY WITH RUNNING WATER.

OR

(2) **ALKALINE ETCH** - ETCH WELL THE PRE-CLEANED ALUMINUM SURFACE IN AN ALKALINE ETCHING MATERIAL THAT IS CONTROLLED BY TITRATION. USE TIME, TEMPERATURE, AND CONCENTRATION SPECIFIED BY THE SOLUTION MANUFACTURER. RINSE THOROUGHLY. REMOVE SLUT WITH AN ACIDIC CHROMIUM COMPOUND-TYPE SOLUTION AS SPECIFIED BY THE SOLUTION MANUFACTURER AND THEN RINSE THOROUGHLY.

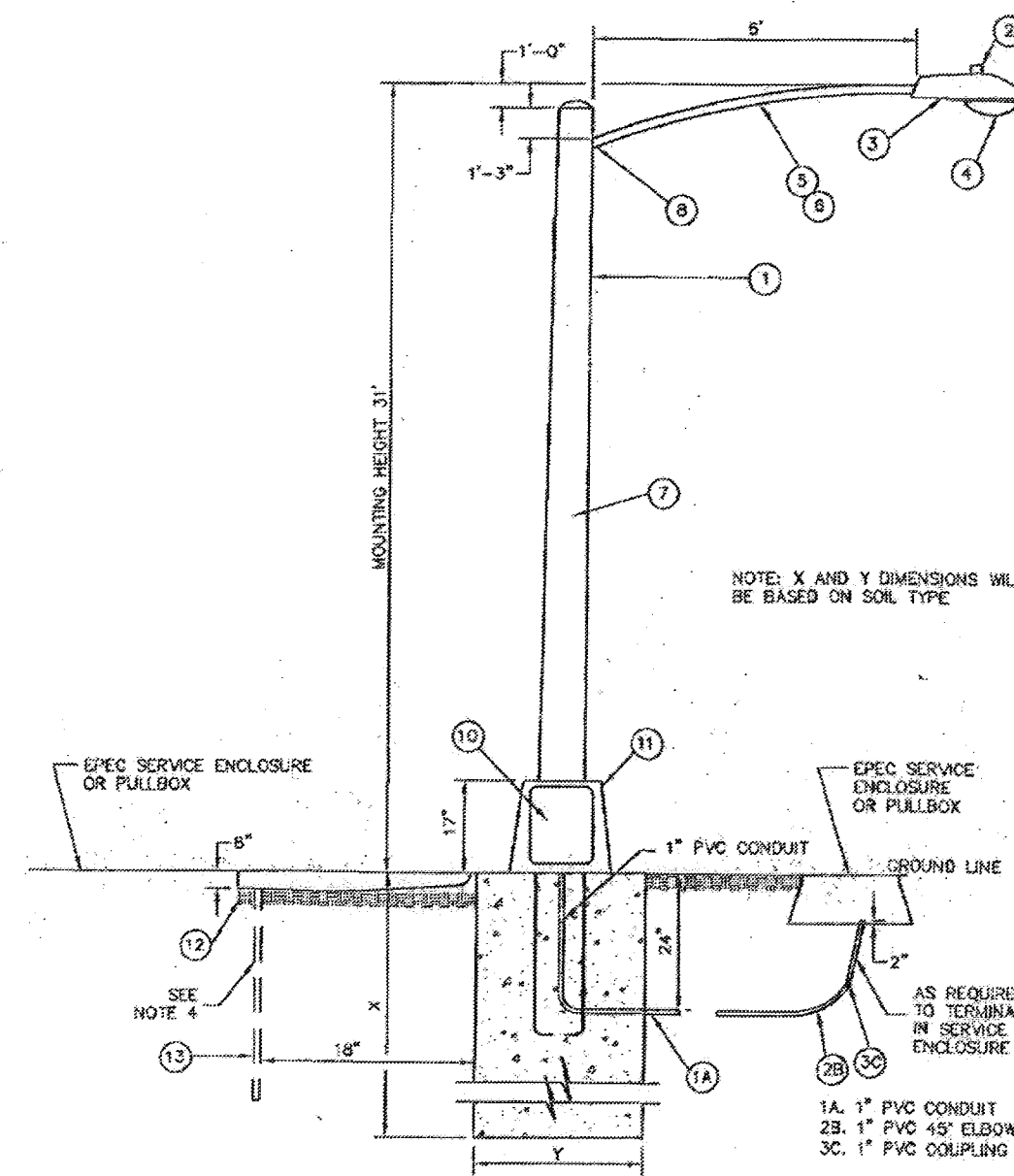
C. CHROMATE CONVERSION COATING

(1) COAT THE ALUMINUM BLANKS ACCORDING TO THE CHROMATE CONVERSION COATING MANUFACTURER'S INSTRUCTIONS. THE COATING SHALL CONFORM TO ASTM B489, CLASS 2, AND SHALL RANGE IN COLOR FROM SILVERY IRIDESCENT TO PALE YELLOW. THE COATING WEIGHT SHALL BE 10 TO 35 MG. PER SQ. FT. WITH A MEDIAN OF 25 MG. PER SQ. FT. AS THE OPTIMUM COATING WEIGHT.

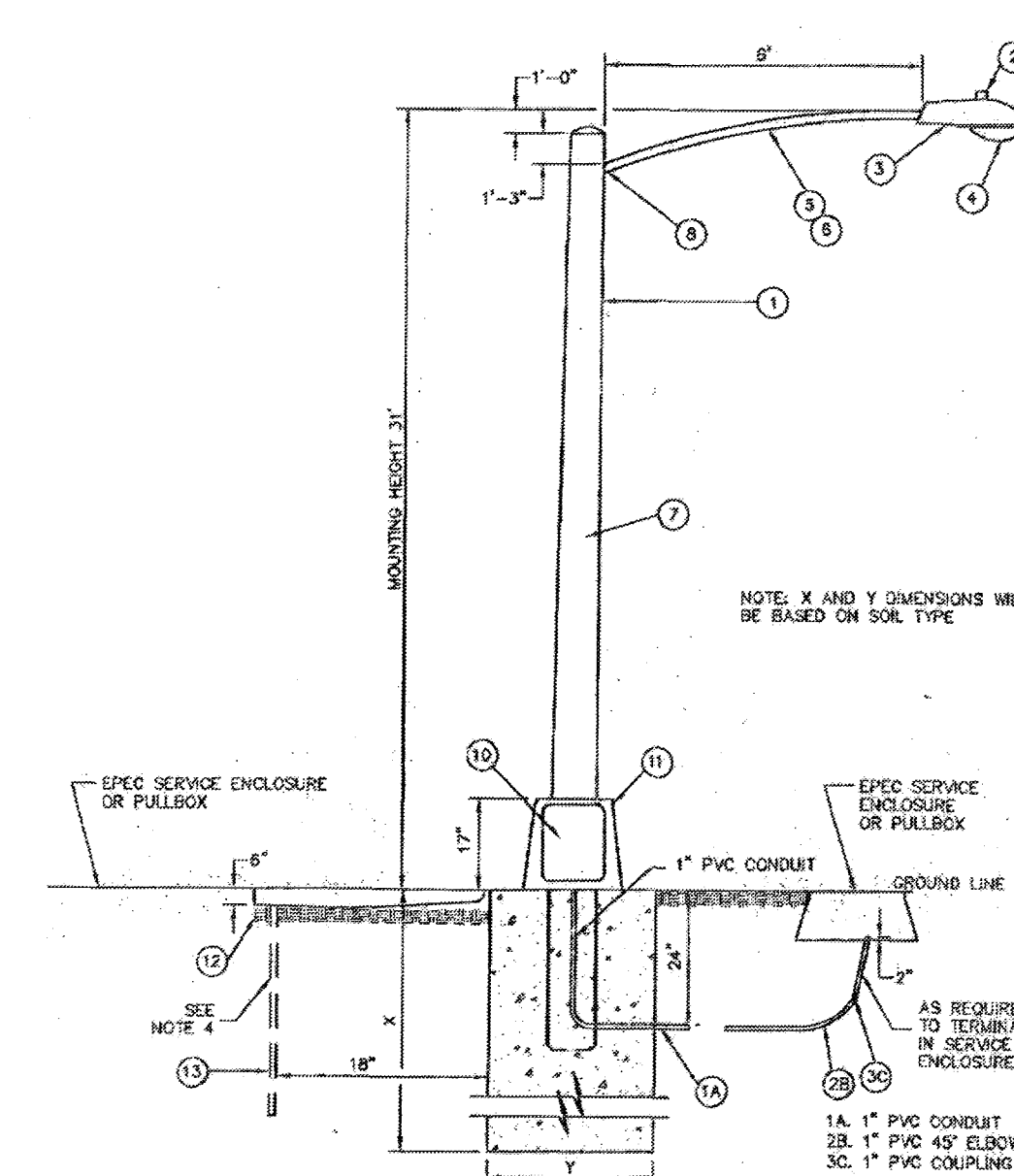
ITEM No.	DESCRIPTION	STOCK No.	QTY.
1	POLE, 35 FT.-CLASS IV	009-035	1
2	GALVANIZED ROD 1/2" CONDUIT	017-292	3
3	PIPE STRAP FOR 1/2" CONDUIT, 2-HOLE	017-334	7
4	LUG BOX, 1/4" x 2"	002-330	6
5	WEATHERHEAD, 1/2" CONDUIT	017-293	1
6	PHOTOCELL, 240V-SEE NOTE 1	021-225	1
7	LUG BOX, 1/2" x 4"	002-370	2
8	WASHER, 5/8" x 8"	002-450	1
9	SQUARE GALV. WASHER, 2-1/4"x2-1/4"	002-790	1
10	COIL-SPRING WASHER, 5/8"	002-786	1
11	LOCKWELL, 5/8"	002-705	1
12	LUMINAIRE, 100W W. P. S.	021-335	1
13	SPS LAMP, 100W	021-680	1
14	MAST ARM, 8" x 1-1/4"	021-200	1
15	COPPER CABLE, #12, 18 STRAND, 800 V	013-665	
16	COPPER CABLE, #12, SOLID, 800 V, GREEN	013-701	
17	CABLE, #10, 2 CONDUCTOR, 800 V, UF	013-600	8
18	SLEEVE, #12-10	006-140	2
19	GROUNDING CLAMP	021-215	1

REMARKS

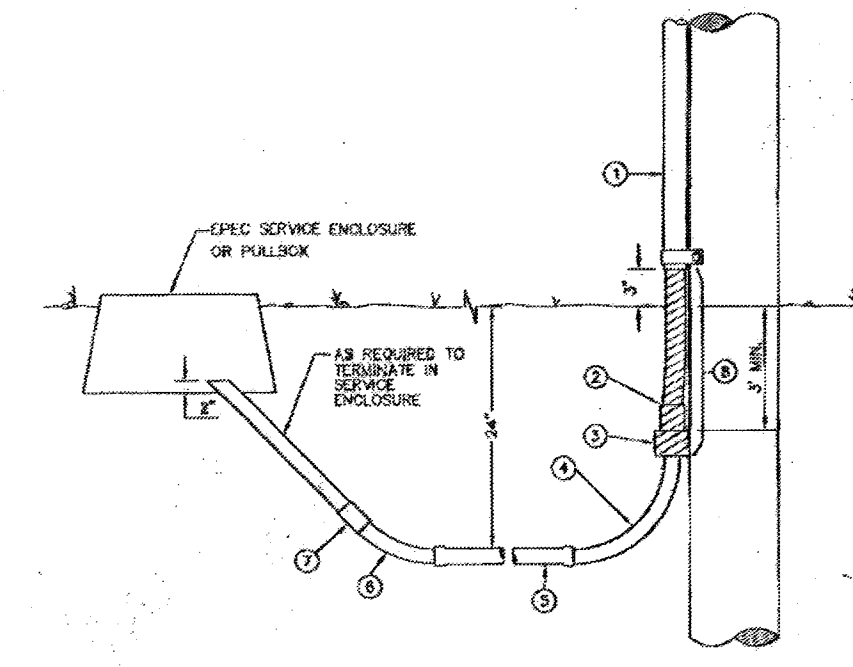
1. MOUNT SO THAT CONTROL FACES NORTH.
 - ITEM 17 SHALL NOT BE SPACED INSIDE ITEM 14.
- DESIGN NOTES**
1. INSTALLATION SHALL COMPLY WITH ALL LOCAL CODE REQUIREMENTS.
 - FOR ANY CLARIFICATION, EXCEPTIONS OR QUESTIONS REGARDING CODE INTERPRETATION, CALL EL PASO ELECTRIC CO. DISTRIBUTION DEVELOPMENT DEPARTMENT.



1 **DETAIL**
SCALE: N.T.S.



2 **DETAIL**
SCALE: N.T.S.



KEY NOTES:

1. 1/2" GALVANIZED ROD CONDUIT
2. RESERVE 1" TO 1 1/2" BUSHING
3. 1" PVC FEMALE ADAPTER
4. 1" PVC 90° ELBOW
5. 1" PVC CONDUIT
6. 1" PVC 45° ELBOW
7. 1" PVC COUPLING
8. TAPE 1/2" RIGID CONDUIT (#7)

3 **DETAIL**
SCALE: N.T.S.

ITEM No.	DESCRIPTION	STOCK No.	QTY.
1	POLE, 35 FT.-CLASS IV		
2	PHOTOCELL, 240V-SEE NOTE 1	021-225	1
3	LUMINAIRE, 100W W. P. S.	021-335	1
4	SPS LAMP, 100W	021-680	1
5	MAST ARM, 8" x 1-1/4"	021-200	1
6	#10 SOLID CABLE 800 V	013-600	AS REQ'D
7	CABLE, #10, 2 CONDUCTOR, 800 V, UF	013-600	AS REQ'D
8	SLEEVE, #12	006-140	AS REQ'D
9	ACCESSORY LUMINAIRE 150 WATTS	21-540	1
10	BREAK-1-WAY FUSES 30 AMP.	21-250	2
11	ALUMINUM TRANSFORMER BASE	21-608	1
12	5/8" GROUND ROD CLAMP	07-561	1
13	5/8" x 10' CU BONDED GROUND ROD	08-826	1

**CITY OF EL PASO
SPECIFICATIONS FOR REFLECTORIZED
STREET NAME SIGNS**

1. COLOR OF SIGNS: THE FINISHED SIGN MUST HAVE A REFLECTORIZED GREEN BACKGROUND. THE GREEN MUST CONFORM WITH THE BUREAU OF PUBLIC ROADS HIGHWAY GREEN. THE LEGEND MUST BE REFLECTORIZED SILVER WHITE (GREEN REVERSE SCREENED BACKGROUND WITH SILVER COPY).
2. LETTER DESIGN: THE LETTERING OF ALL LEGENDS MUST BE UPPER CASE LETTERS IN ACCORDANCE WITH "STANDARD ALPHABETS FOR HIGHWAY SIGNS" PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION.
3. LETTER SPACING: THE CONTROL FOR THE SPACING VALUES IN TRAFFIC LAYOUT IS THE DISTANCE RECOGNIZED AS AESTHETIC SPACING BETWEEN TWO STRAIGHT LETTERS (H.C.). A SPACING CONTROL OF TWO TIMES THE WIDTH OF THE STROKE OF THE LETTER SERIES TO BE USED MUST BE THE AESTHETIC CONTROL (100%). TWO AND ONE-HALF TIMES (C-12) THIS CONTROL MUST BE USED AS THE AESTHETIC WORD SPACE BETWEEN ELEMENTS IN THE PRIMARY LEGEND.
4. LAYOUT: THE MAXIMUM NUMBER OF LETTERS TO BE ACCOMMODATED ON A GIVEN LENGTH STREET NAME FACE MUST BE DETERMINED BY THE WIDEST LETTER SERIES POSSIBLE FOR THAT LEGEND AND THE SPACING CONTROL (100%) FOR THE SERIES USED MUST BE EXPANDED OR CONDENSED UP TO 25% IN 5% INCREMENTS.
5. THE SPACING CONTROL (100%) FOR THE SERIES USED MUST BE EXPANDED OR CONDENSED UP TO 25% IN 5% INCREMENTS FOR THE END MARGIN WITH A MINIMUM OF 1".
6. THE WORD SPACE MUST BE EXPANDED UP TO 25% IN 5% INCREMENTS BUT NOT CONDENSED.

REMARKS

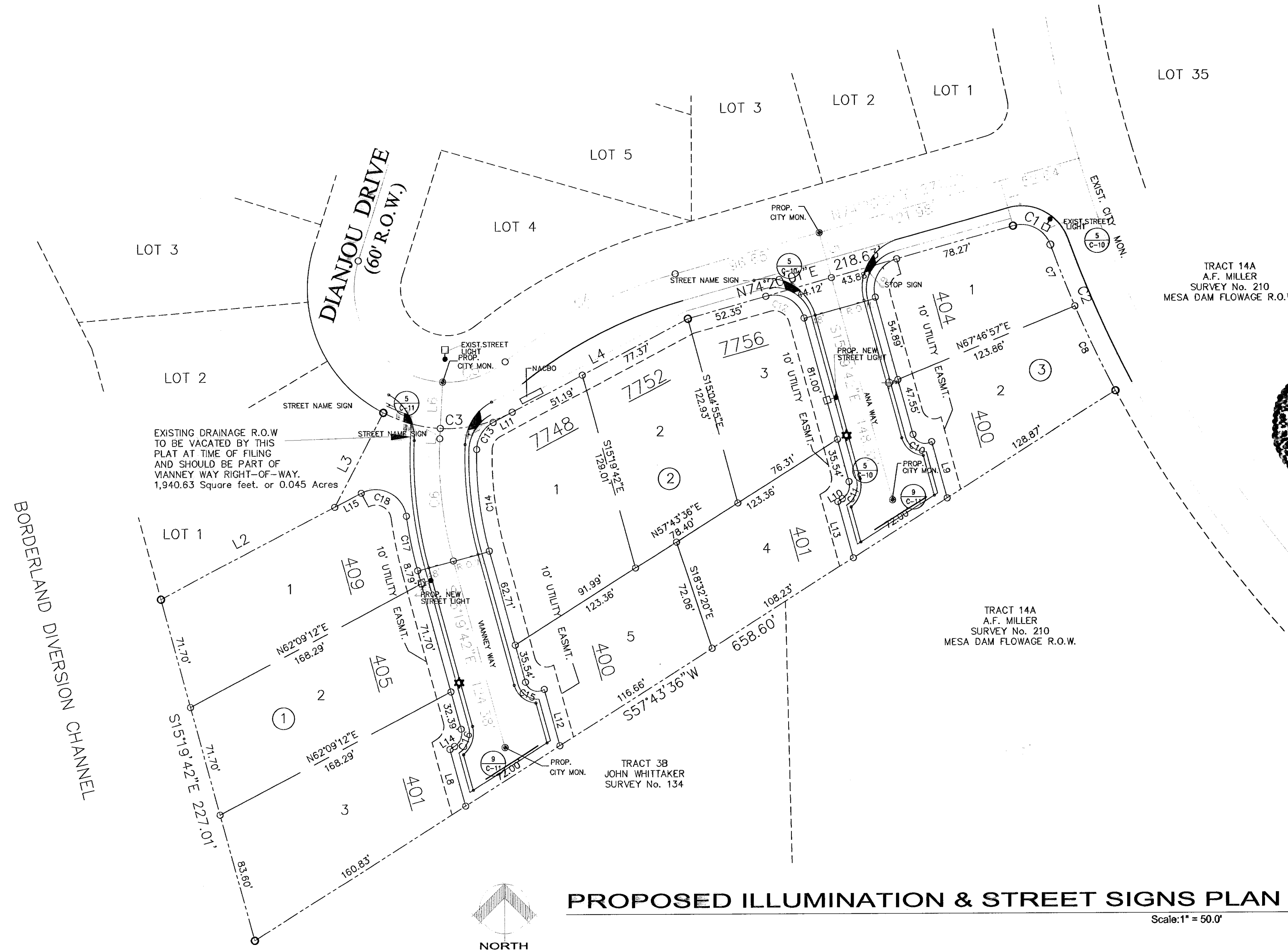
1. MOUNT SO THAT CONTROL FACES NORTH.
 - ITEM 7 SHALL NOT BE SPACED INSIDE ITEM 5.
- DESIGN NOTES**
1. INSTALLATION SHALL COMPLY WITH ALL LOCAL CODE REQUIREMENTS.
 - FOR ANY CLARIFICATION, EXCEPTIONS OR QUESTIONS REGARDING CODE INTERPRETATION, CALL EL PASO ELECTRIC CO. DISTRIBUTION DEVELOPMENT DEPARTMENT.
 - A GROUND ROD MUST BE USED.

4 **DETAIL**
SCALE: N.T.S.

5 **DETAIL**
SCALE: N.T.S.

LEGEND

- AS-BUILTS C-30-11
- ★ STREET LIGHT
- STREET SIGN



PROPOSED ILLUMINATION & STREET SIGNS PLAN
Scale: 1" = 50.0'

600829

REVISIONS

03-29-10
05-05-10
05-05-10
01-28-11
02-16-11

PROJECT ARCHITECT: _____
PROJECT NUMBER: _____
DRAWING BY: _____
DATE: 10-17-09
SCALE: _____

OWNER: _____
XXXXXXXXXX

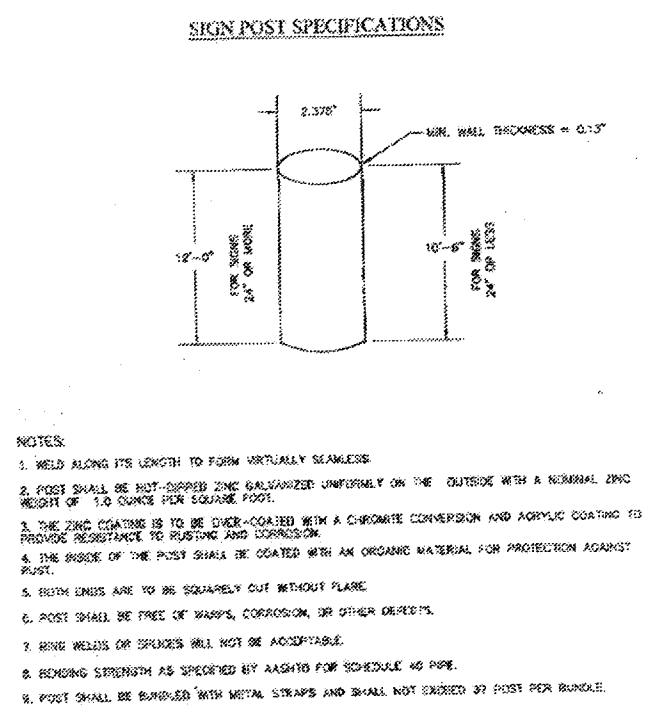
PROJECT NAME: **DIANJOU PLACE IMPROVEMENTS**
EL PASO, TEXAS
DIANJOU DRIVE



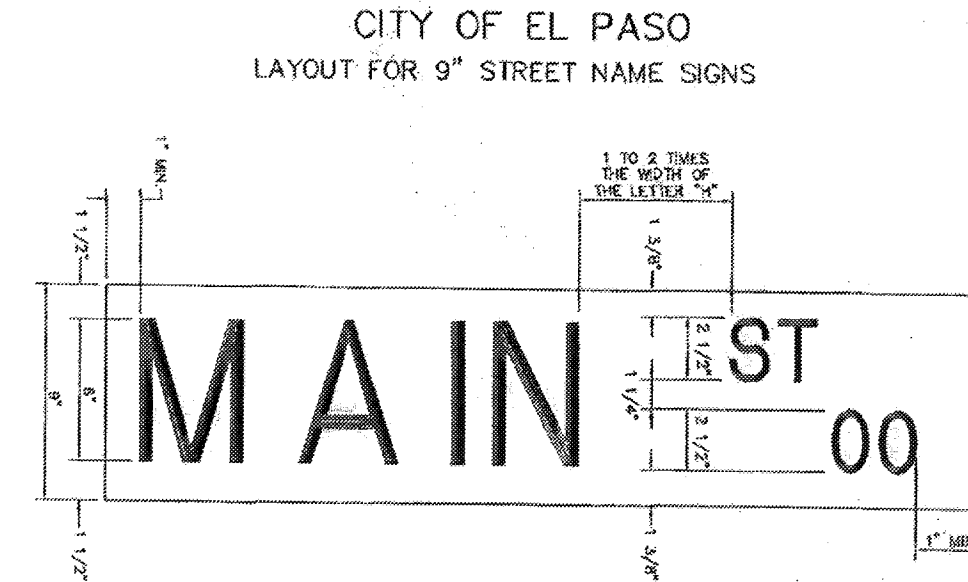
REY ENGINEERING
CONSULTING ENGINEERING-SURVEYING-PLANNING
15286 BOB WITCHELLO RD., SUITE 100, EL PASO, TEXAS 79936

SHEET TITLE: **PROPOSED ILLUMINATION, STREET SIGNS PLAN AND DETAILS**
C-10
SHT. 14 OF 15

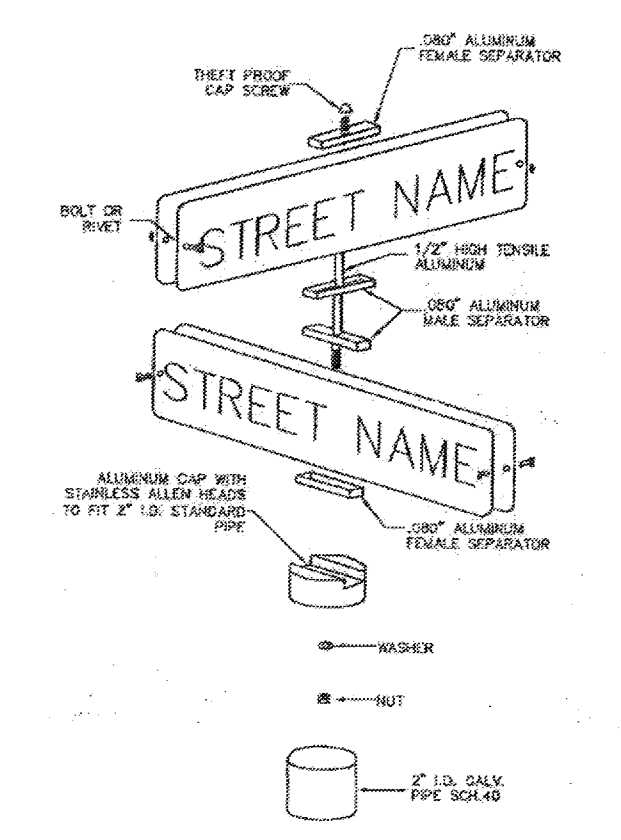
- SPACE BETWEEN PRIMARY AND BLOCK NUMBER AREA MUST BE 1/2 THE AESTHETIC WORK SPACE USED IN THE PRIMARY LEGEND.
- SUFFIX LETTER SIZE FOR ALL LENGTHS MUST BE 2" CAPITALS, "C" SERIES, EXCEPT THAT SERIES "A" OR "B" WHERE SUFFIX ABBREVIATION EXCEEDS TWO LETTERS, MAY BE USED.
- SIZE OF LEGEND FOR 9" STREET NAME SIGN, THE PRIMARY LEGEND, OR STREET NAME MUST HAVE CAPITAL LETTERS SIX INCHES (6") HIGH AND ALL SECONDARY LEGENDS, INCLUDING THE SUFFIX, BLOCK NUMBERS, MUST HAVE UPPER CASE LETTERS TWO AND ONE-HALF INCHES (2 1/2") HIGH.
- SUFFIX LETTER SIZE FOR ALL LENGTHS MUST BE 2 1/2" CAPITALS, "C" SERIES, EXCEPT THAT SERIES "A" OR "B" WHERE SUFFIX ABBREVIATION EXCEEDS TWO LETTERS, MAY BE USED.
- POSITION OF LEGEND: EACH SIGN FACE WILL CONSIST OF THE STREET NAME, SUFFIX, AND TWO FIGURES OF THE BLOCK NUMBER. THE ADDITIONAL NUMBERS OF THE BLOCK NUMBER WILL BE APPLIED BY THE CITY OF EL PASO. THE SUFFIX WILL BE LOCATED IN THE UPPER RIGHT CORNER AND THE BLOCK NUMBER IN THE LOWER RIGHT CORNER OF THE SIGN FACE AND THE STREET NAME CENTERED IN THE REMAINING SPACE.
- SIGN FABRICATION: THE SIGN FACE MUST BE FABRICATED BY REVERSE SCREENING GREEN TRANSPARENT COLOR OVER SILVER REFLECTIVE SHEETING. TRANSPARENT PROCESS COLORS MUST BE AS RECOMMENDED BY THE SHEETING MANUFACTURER. CUT-OUT OR APPLIED LEGENDS ARE NOT PERMITTED. SIGN FACES MUST BE COMPRISED OF ONE PIECE OR PANEL OF REFLECTIVE SHEETING.
- TYPE OF SHEETING: ENGINEER GRADE REFLECTIVE SHEETING MUST BE USED IN THE FABRICATION OF THE STREET NAME SIGN FACES.



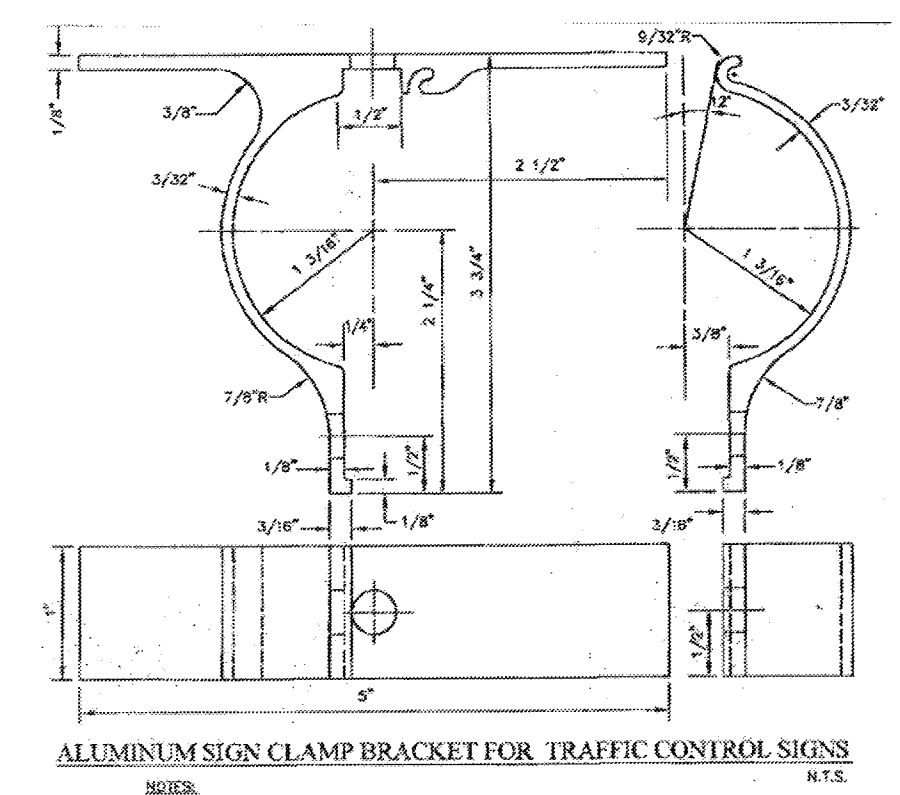
- NOTES:
- ALL SIGNS MUST BE VERTICALLY SEAMLESS.
 - ALL SIGNS MUST BE NOTCHED AND REINFORCED (MOUNTED ON THE OUTSIDE WITH A NUMBER ONE NOTCH) TO FIT OVER THE SIGN POST.
 - THE SIGN SURFACE MUST BE COVERED WITH A GREEN TRANSPARENT COLOR AND APPLIED COATING TO PROTECT AGAINST WEAR AND CORROSION.
 - ALL SIGNS ARE TO BE SEAMLESSLY CUT WITHOUT FLARE.
 - POST SHALL BE FREE OF BURST, CORROSION OR OTHER DEFECTS.
 - TYPE OF SHEETING: ENGINEER GRADE REFLECTIVE SHEETING MUST BE USED IN THE FABRICATION OF THE STREET NAME SIGN FACES.
 - POST SHALL BE FINISHED WITH WHITE PAINT AND SHALL NOT BE PAINTED BY OTHER PERMITS.



SIGN CLASS	SIGN LENGTH	PRIMARY LETTERS SIZE & SERIES	SUFFIX & BLOCK NUMBER SIZE & SERIES
ARTERIAL STREETS	36"	6" C.D. SERIES	5" C. SERIES
	42"	6" C.D. SERIES	5" C. SERIES
	48"	6" A,B,C,D SERIES	5" C. SERIES

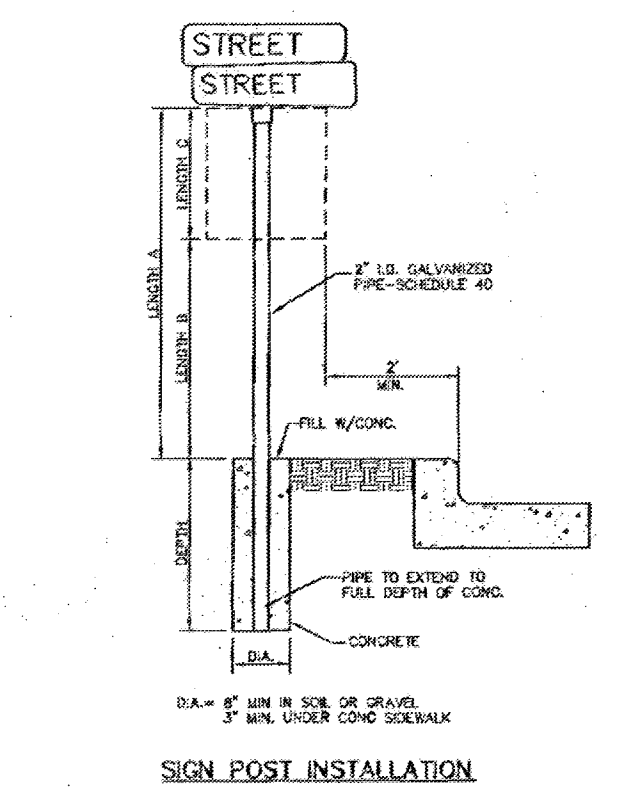


5 DETAIL SCALE: N.T.S.



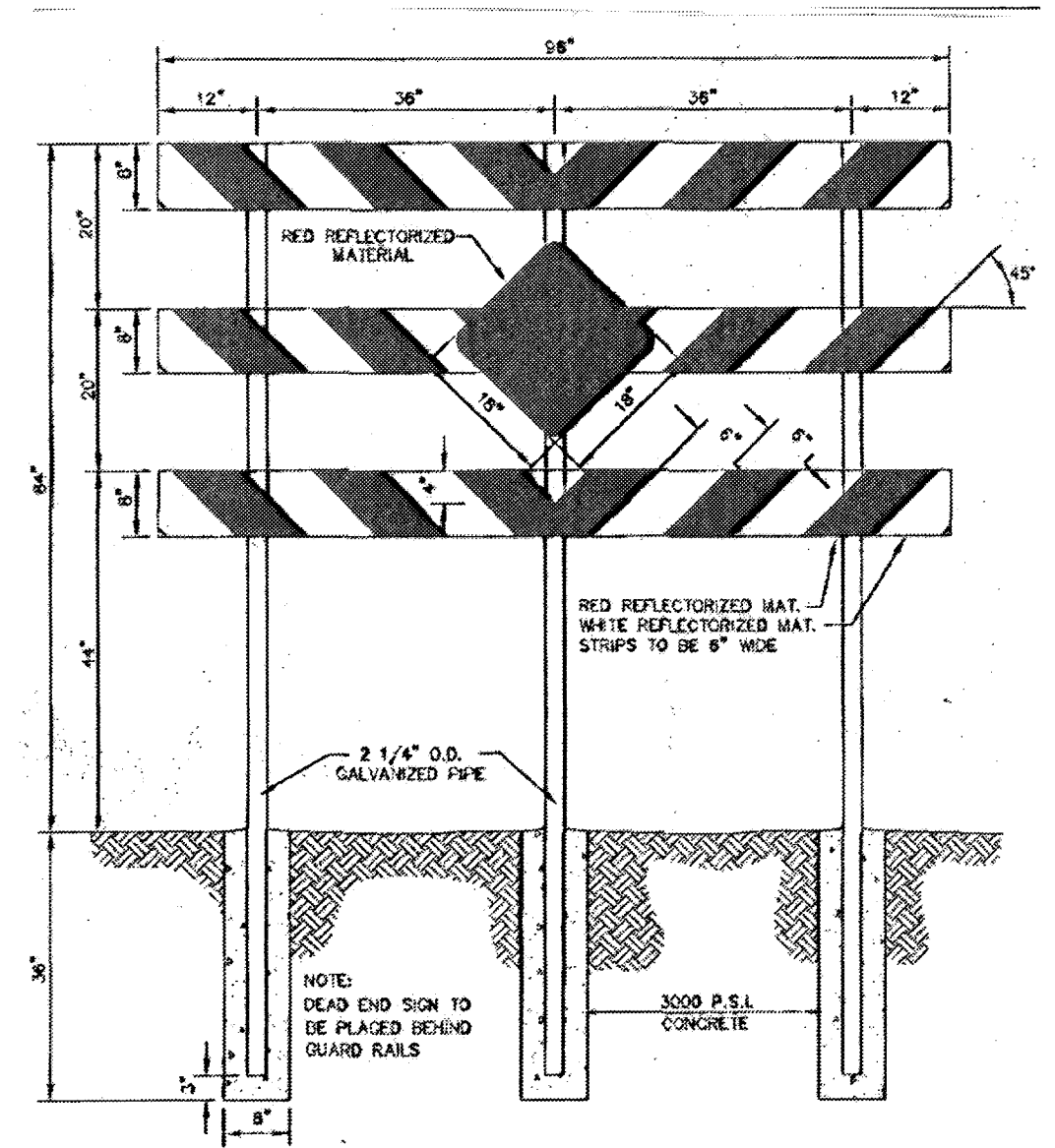
6 DETAIL SCALE: N.T.S.

- NOTES:
- ALL HOLES 3/8" PUNCH.
 - FLANGES & ROUNDS 1/8" MIN.
 - FURNISH THE FOLLOWING HARDWARE FOR EACH BRACKET:
 - 1 - 5/16" 3/4" BOLT
 - 1 - 5/16" 1/4" BOLT
 - 2 - 3/8" NUTS & LOCK WASHERS
 - 2 - PLAT WASHERS
 - THE BRACKET IS TO BE MADE FROM HIGH STRENGTH ALUMINUM ALLOY. THE BRACKET IS TO EMPLOY AN EXPANDED INTERLOCKING FEATURE OFFERING A POSITIVE HEAD OF ATTACHING A PLAT SIGN TO A STANDARD 2" (2 1/8" O.D.) TUBULAR POST.

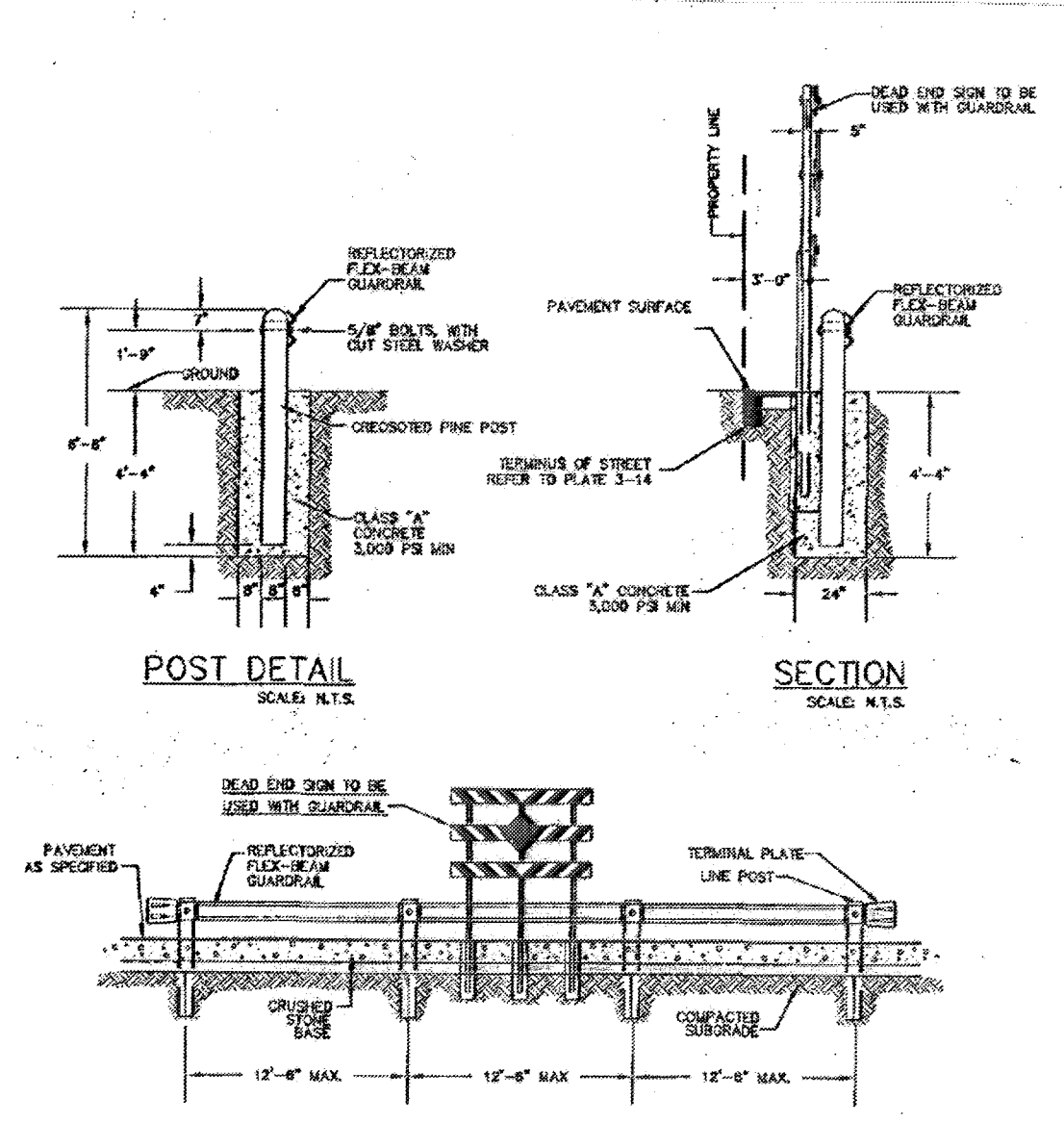


7 DETAIL SCALE: N.T.S.

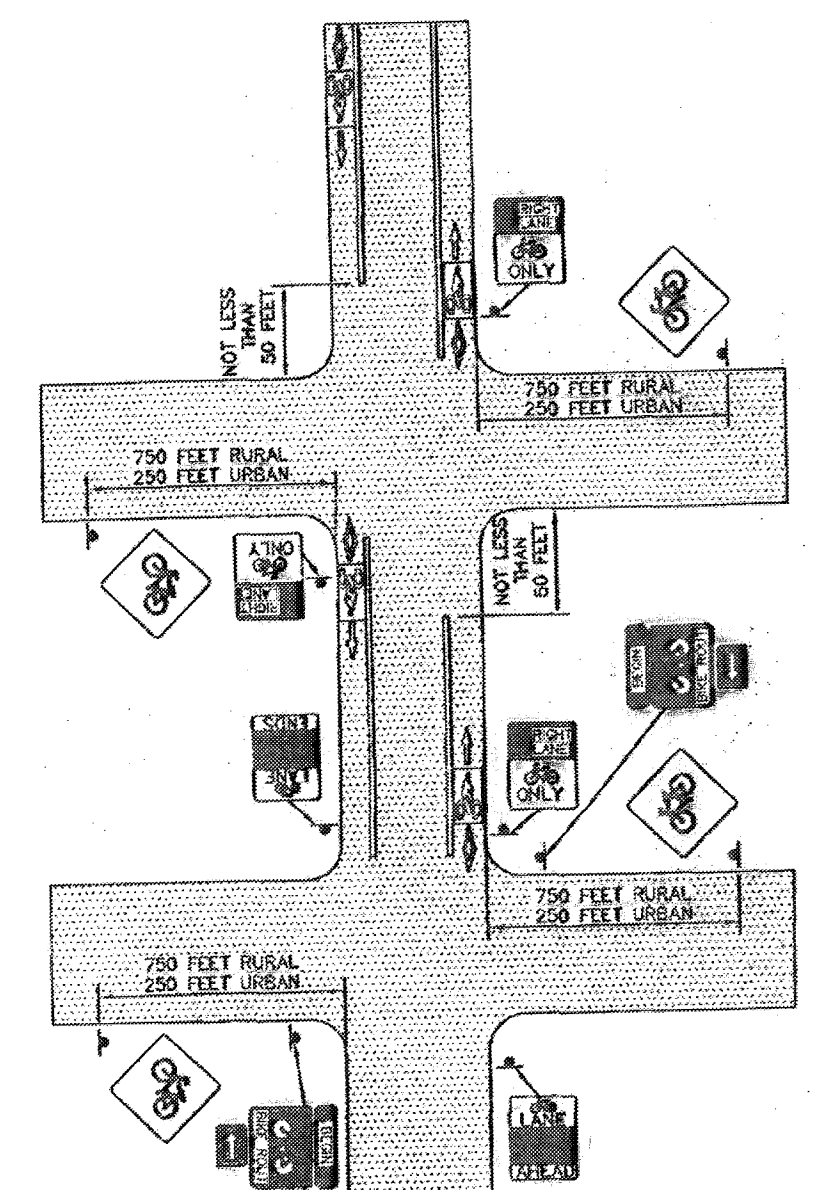
LENGTH A	LENGTH B	LENGTH C	DEPTH
10 FT	7 FT	10 FT	3 FT
9 FT	7 FT	10 FT	1 1/2 FT



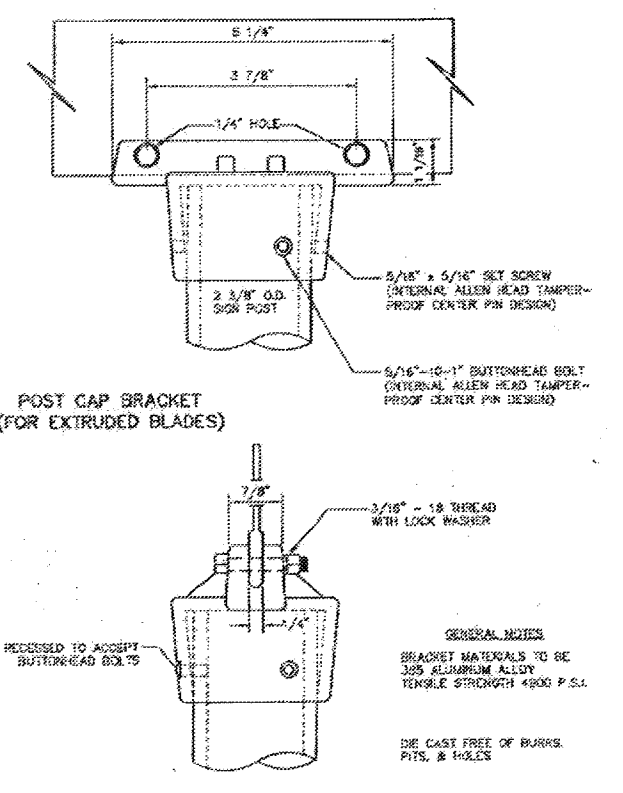
8 DETAIL SCALE: N.T.S.



9 DETAIL SCALE: N.T.S.



10 DETAIL SCALE: N.T.S.



11 DETAIL SCALE: N.T.S.

3/8" HOLE DIA.

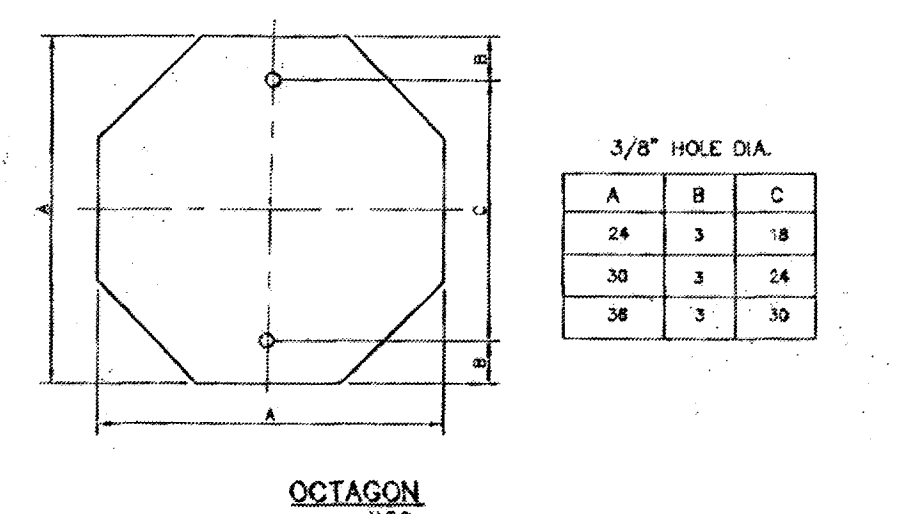
A	B	C	D	E
9	12	3	6	1 1/2
10	18	2	14	1 1/2
10	27	2	23	1 1/2
10	36	2	32	1 1/2
12	18	1-1/2	15	1 1/2
12	24	2	20	1 1/2
12	30	1-1/2	27-3/4	1 1/2
12	36	2	32	1 1/2
12	48	2	44	1 1/2
18	24	3	18	1 1/2
18	30	1-1/2	27	1 1/2
24	20	3	24	1 1/2
24	26	3	30	1 1/2
24	48	3	42	1 1/2
30	36	3	30	1 1/2
30	42	3	38	1 1/2

12 DETAIL SCALE: N.T.S.

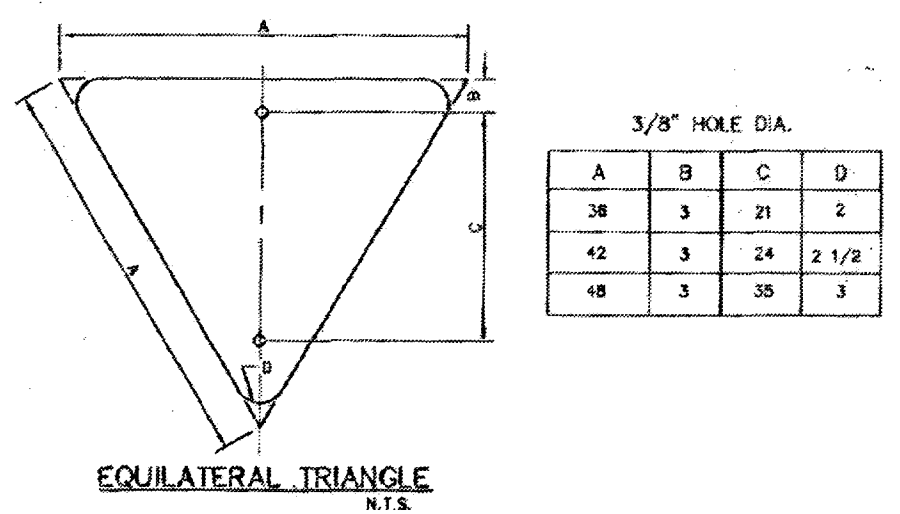
3/8" HOLE DIA.

A	B	C	D
9	1	1	1
12	3	1	1 1/2
18	3	1	1 1/2
24	3	1	1 1/2
30	3	1	1 1/2

13 DETAIL SCALE: N.T.S.



14 DETAIL SCALE: N.T.S.



15 DETAIL SCALE: N.T.S.

9" STREET NAME SIGN EXTRUDED ALUMINUM SIGN BLANK

3/8" HOLE DIA.

A	B	C	D	E	F
36	9	0.800	1/4"	0.091	0.25
36	9	0.800	1/4"	0.091	0.25
42	9	0.800	1/4"	0.091	0.25
48	9	0.800	1/4"	0.091	0.25

15 DETAIL SCALE: N.T.S.

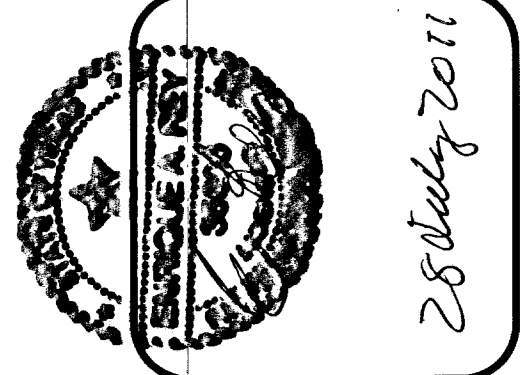
REVISIONS

05-05-10
01-28-11

PROJECT ARCHITECT: _____
 PROJECT NUMBER: _____
 DRAWING BY: _____
 DATE: 10-17-09
 FILE: _____

OWNER: _____
 XXXXX

PROJECT NAME: _____
DIANJOU PLACE IMPROVEMENTS
 DIANJOU DRIVE
 EL PASO, TEXAS



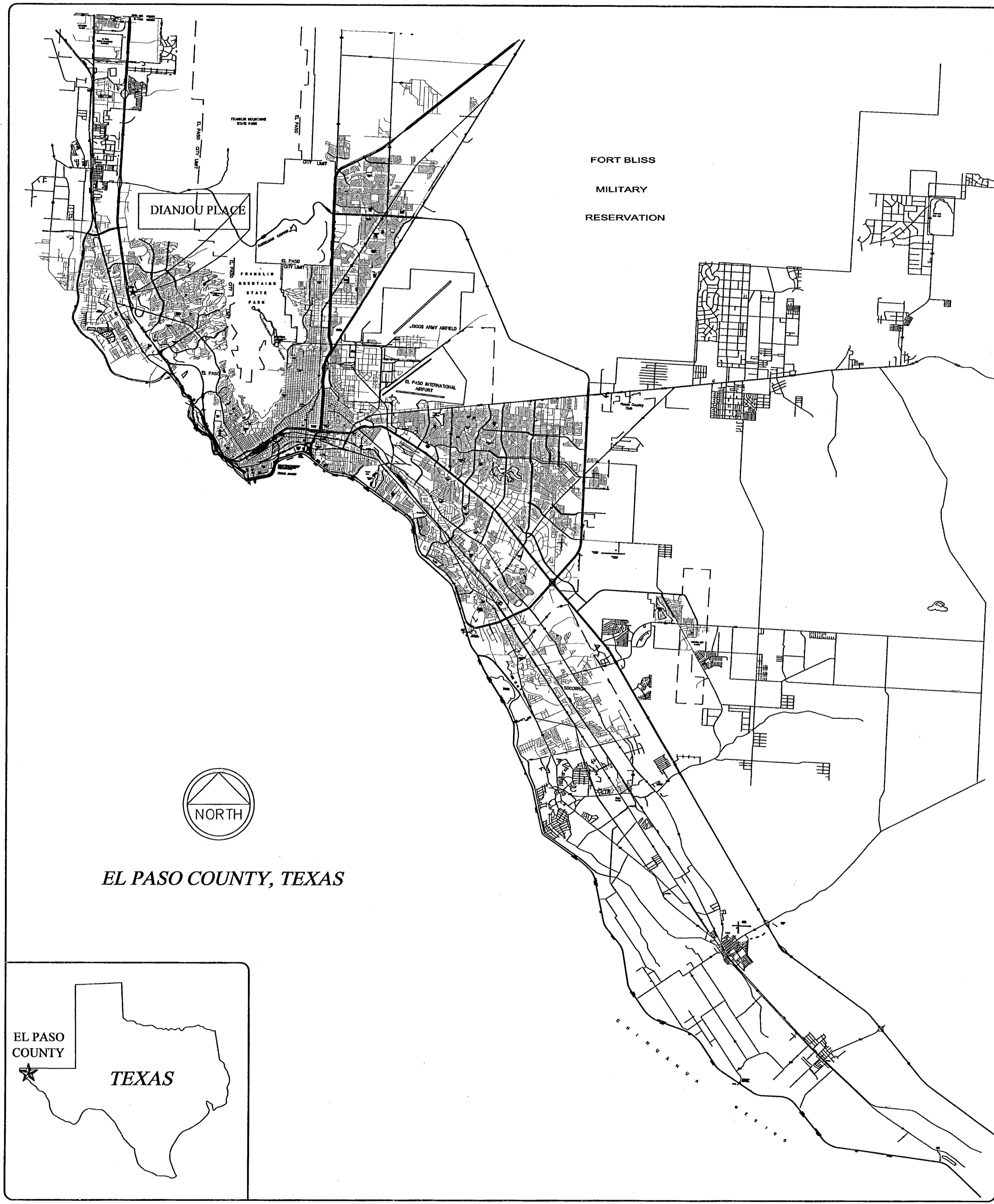
REY ENGINEERING
 CONSULTING ENGINEERING-SURVEYING-LAND PLANNING
 1326 BOB WHITE DRIVE, SUITE 100, EL PASO, TEXAS 79906
 28 July 2011

SHEET TITLE: SIGNS DETAILS

C-11
 SHT. 15 OF 15

600829

VICINITY MAP



DIANJOU PLACE
EL PASO, TEXAS.

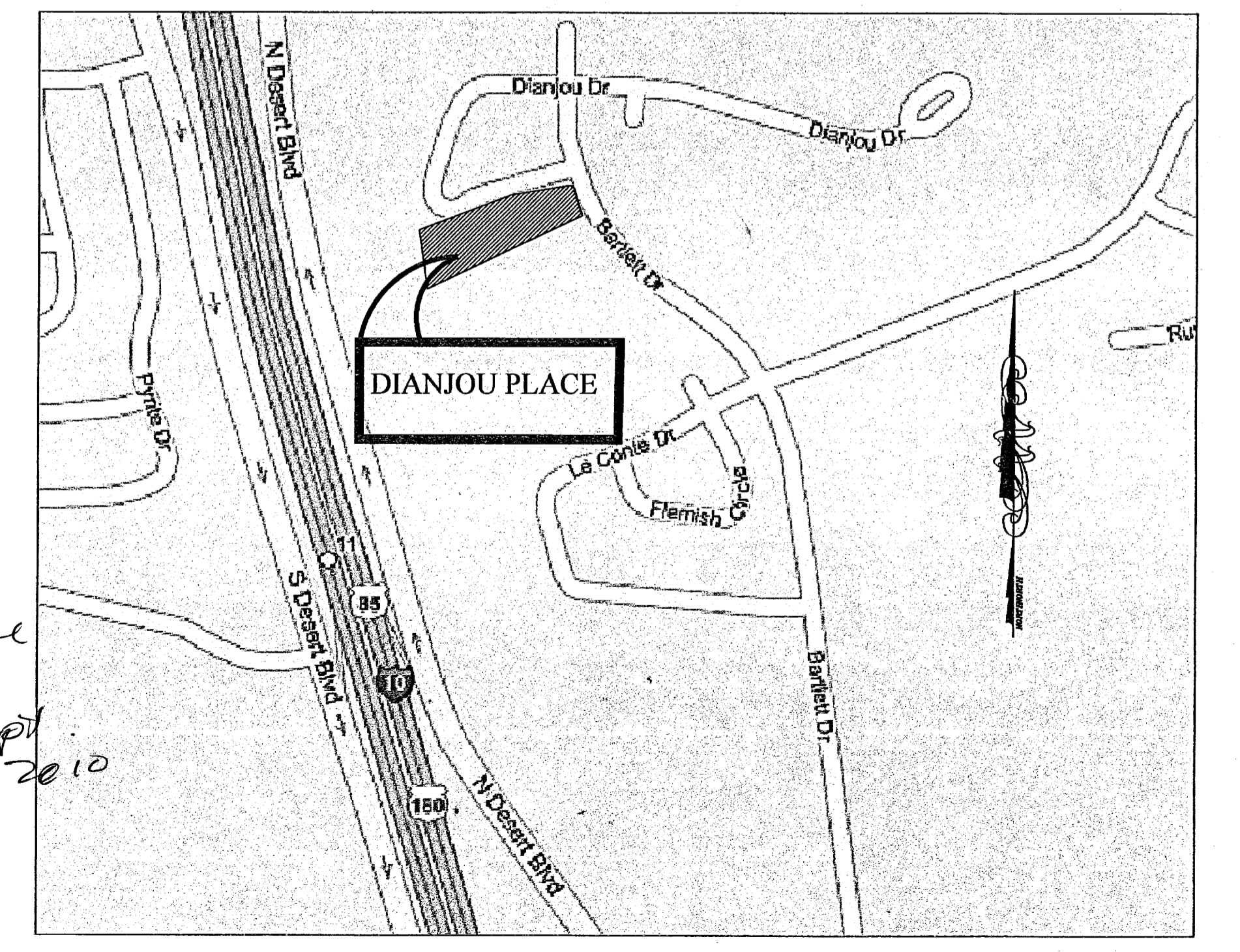
IMPROVEMENT PLANS

INDEX OF DRAWINGS

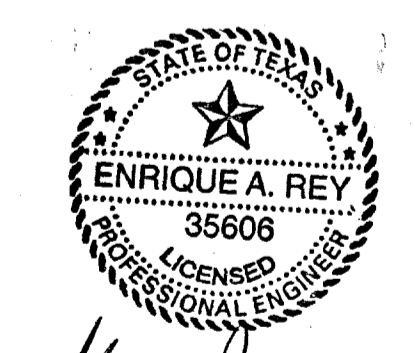
SHEET	TITLE
1 OF 14	PLAT
2 OF 14	C-1 GRADING & DRAINAGE PLAN
3 OF 14	C-1.1 DRAINAGE PLAN
4 OF 14	C-2 STORM WATER POLLUTION CONTROL
5 OF 14	C-3 SECTIONS
6 OF 14	C-4 POTABLE WATER & SEWER PLAN
7 OF 14	C-5 STREET SANITARY SEWER PLAN-PROFILE
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LOCATION MAP SCALE 1"=600'



DEVELOPMENT SERVICES DEPARTMENT
SITE PLAN REVIEW
Reviewed For Conformance For Conditions Related To:
Demolition Only
Grading & Drainage
Wheelchair Ramps
On Site Parking Layout
Sidewalks
Driveways
Retaining Rock Walls
On-Site Ponding of Storm Waters
Contractor Must Check Prior To Construction For
BY: *Enrique A. Rey* DATE: 9/14/2010



U. Rey
7 Sep 2010
Changes were
made for
Streets Dept
on 13 Sep 2010
CC

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