

TRES SUEÑOS UNIT TWENTY-TWO REPLAT "A"

A REPLAT OF A PORTION OF RUSSELL BOREA AVENUE RIGHT-OF-WAY AND JOHNNY MATA DRIVE RIGHT-OF-WAY IN TRES SUEÑOS UNIT EIGHT AMENDING PLAT, AND A PORTION OF SECTION 27, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILROAD COMPANY SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS. CONTAINING 29.87 ACRES ± DEDICATION

Tropiana Development Inc., the owners of this land, do hereby present this map and dedicate their respective portions of property to the use of the public, the streets, ponding area, park, pedestrian right-of-way, drainage right of way and utility easements as herein laid down and designated, including easements for overhead of service wires for pole type utilities and the right for installation of service poles alongside lot lines as may be required, easements for 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 my signature this 12th day of January 2022

R.L. Bowling III
R.L. Bowling, III, President

ACKNOWLEDGEMENT

STATE OF TEXAS
COUNTY OF EL PASO

Before me, the undersigned authority, on this day personally appeared R.L. Bowling, III, 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 consideration herein expressed.

Given under my hand and seal of office this 12th day of January 2022

Maria E. Terras 07-29-2023
Notary Public in and for El Paso County My Commission Expires

CITY PLAN 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 4th day of November 2021

Chairperson *Executive Secretary*

Approved for filing this 27th day of January 2022

Philp Elvise
Planning and Inspections Director

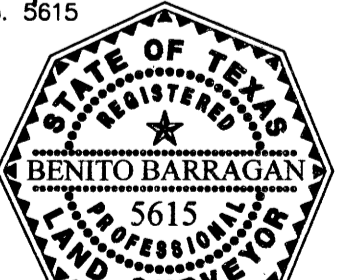
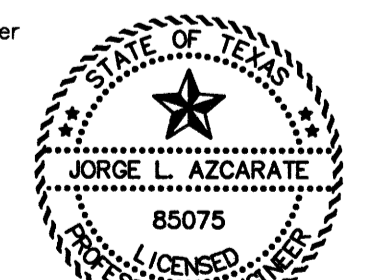
FILING

Filed and recorded in the office of the County Clerk of El Paso County, Texas, this 10th day of February 2022 in File No. 20220013245 of the Plat Records.

Debra Buias *Arminda Amaya*
FOR RECORDING PURPOSES ONLY County Clerk by Deputy

Subdivision improvement plans prepared by and under the supervision of CEA Group.

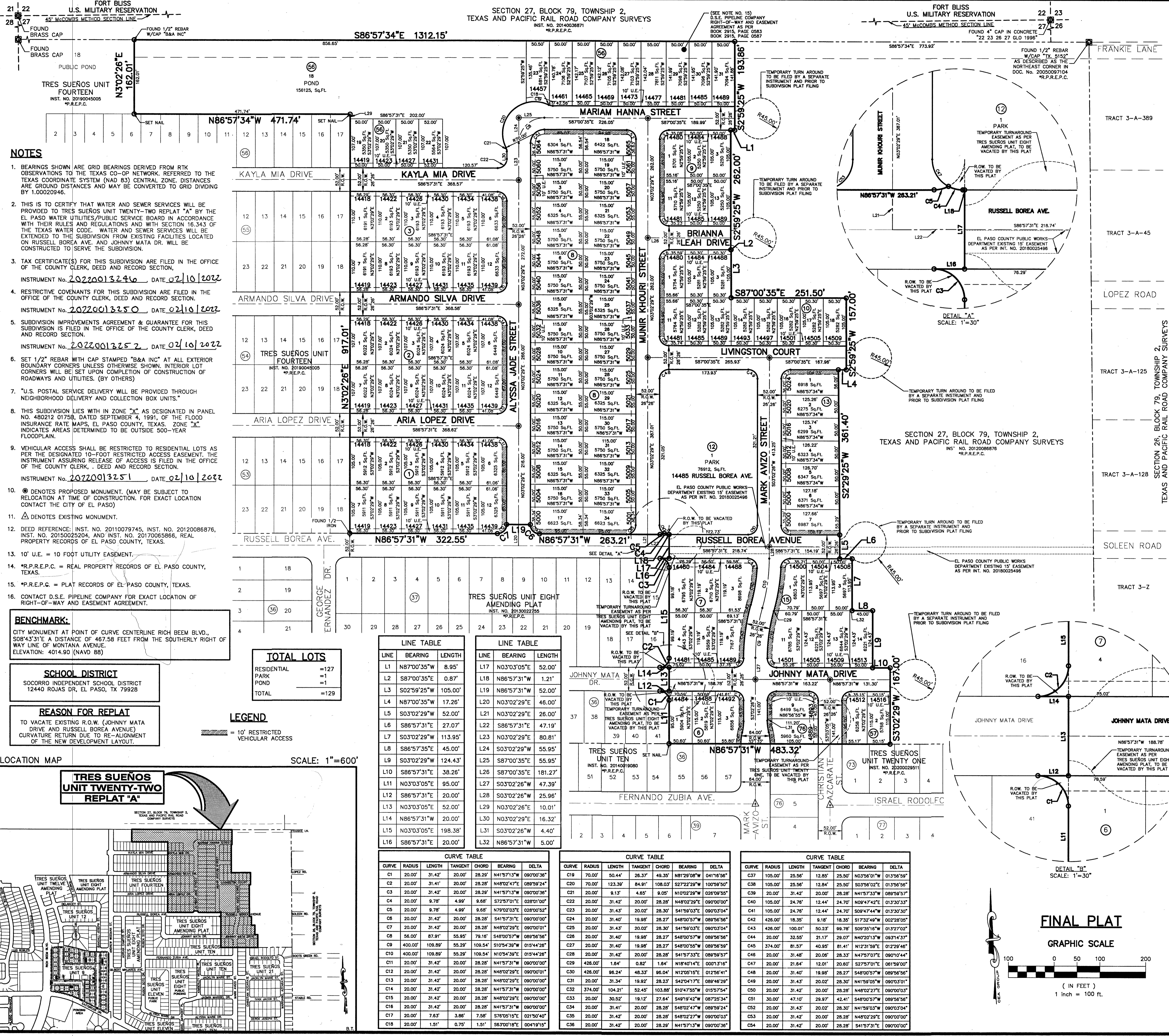
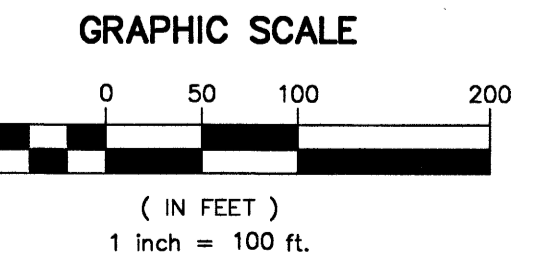
Jorge L. Azcarate 1-7-2022 *Benito Barragan* 1/2/2022
JORGE L. AZCARATE, P.E. Licensed Professional Engineer Texas License No. 85075
Benito Barragan, R.P.L.S. No. 5615



ENGINEER **cea** GROUP www.ceagroup.net
813 N. Kansas St. Suite 300 El Paso, TX 79902 915.544.5232
TEXAS REGISTERED ENGINEERING FIRM #4564 CONTACT: JORGE L. AZCARATE, P.E.

SURVEYOR **Barragan & Associates Inc.**
LAND PLANNING & LAND SURVEYING TEXAS SURVEYING FIRM #10151200 10950 Pellicano Dr. Bldg. F - El Paso TX 79935 Phone (915) 591-5709 Fax (915) 591-5706
CONTACT: BENITO BARRAGAN, R.P.L.S.

FINAL PLAT



- #### NOTES
- BEARINGS SHOWN ARE GRID BEARINGS DERIVED FROM RTK OBSERVATIONS TO THE TEXAS CO-OP NETWORK, REFERRED TO THE TEXAS COORDINATE SYSTEM (NAD 83) CENTRAL ZONE. DISTANCES ARE GROUND DISTANCES AND MAY BE CONVERTED TO GRID DIVIDING BY 1.00020946.
 - THIS IS TO CERTIFY THAT WATER AND SEWER SERVICES WILL BE PROVIDED TO TRES SUEÑOS UNIT TWENTY-TWO REPLAT "A" BY THE EL PASO WATER UTILITIES/PUBLIC SERVICE BOARD IN ACCORDANCE WITH THEIR RULES AND REGULATIONS AND WITH SECTION 16.343 OF THE TEXAS WATER CODE. WATER AND SEWER SERVICES WILL BE EXTENDED TO THE SUBDIVISION FROM EXISTING FACILITIES LOCATED ON RUSSELL BOREA AVE. AND JOHNNY MATA DR. WILL BE CONSTRUCTED TO SERVE THE SUBDIVISION.
 - TAX CERTIFICATE(S) FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION, INSTRUMENT No. 20220013246, DATE 02/10/2022.
 - RESTRICTIVE COVENANTS FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION, INSTRUMENT No. 20220013250, DATE 02/10/2022.
 - SUBDIVISION IMPROVEMENTS AGREEMENT & GUARANTEE FOR THIS SUBDIVISION IS FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION, INSTRUMENT No. 20220013252, DATE 02/10/2022.
 - SET 1/2" REBAR WITH CAP STAMPED "B&A INC" AT ALL EXTERIOR BOUNDARY CORNERS UNLESS OTHERWISE SHOWN. INTERIOR LOT CORNERS WILL BE SET UPON COMPLETION OF CONSTRUCTION OF ROADWAYS AND UTILITIES. (BY OTHERS)
 - U.S. POSTAL SERVICE DELIVERY WILL BE PROVIDED THROUGH NEIGHBORHOOD DELIVERY AND COLLECTION BOX UNITS.
 - THIS SUBDIVISION LIES WITH IN ZONE "C" AS DESIGNATED IN PANEL NO. 480212 01758, DATED SEPTEMBER 4, 1991, OF THE FLOOD INSURANCE RATE MAPS, EL PASO COUNTY, TEXAS. ZONE "C" INDICATES AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN.
 - VEHICULAR ACCESS SHALL BE RESTRICTED TO RESIDENTIAL LOTS AS PER THE DESIGNATED 10-FOOT RESTRICTED ACCESS EASEMENT, THE INSTRUMENT ASSURING RELEASE OF ACCESS IS FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION, INSTRUMENT No. 20220013251, DATE 02/10/2022.
 - ⊙ DENOTES PROPOSED MONUMENT. (MAY BE SUBJECT TO RELOCATION AT TIME OF CONSTRUCTION. FOR EXACT LOCATION CONTACT THE CITY OF EL PASO)
 - △ DENOTES EXISTING MONUMENT.
 - DEED REFERENCE: INST. NO. 20110079745, INST. NO. 20120086876, INST. NO. 20150025204, AND INST. NO. 20170058666, REAL PROPERTY RECORDS OF EL PASO COUNTY, TEXAS.
 - 10' U.E. = 10 FOOT UTILITY EASEMENT.
 - *R.P.R.E.P.C. = REAL PROPERTY RECORDS OF EL PASO COUNTY, TEXAS.
 - *P.R.E.P.C. = PLAT RECORDS OF EL PASO COUNTY, TEXAS.
 - CONTACT D.S.E. PIPELINE COMPANY FOR EXACT LOCATION OF RIGHT-OF-WAY AND EASEMENT AGREEMENT.

BENCHMARK:
CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD., S08°43'31"E A DISTANCE OF 467.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE. ELEVATION: 4014.90 (NAVD 88)

SCHOOL DISTRICT:
SOCORRO INDEPENDENT SCHOOL DISTRICT
12440 ROJAS DR, EL PASO, TX 79928

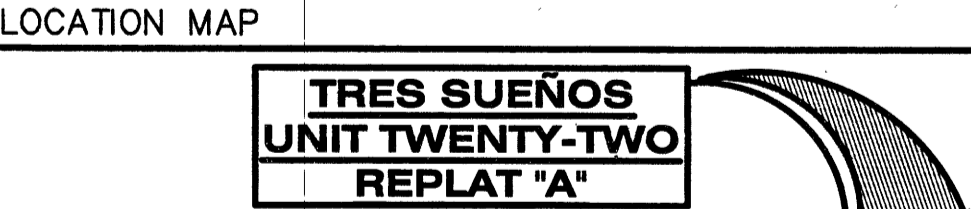
REASON FOR REPLAT:
TO VACATE EXISTING R.O.W. (JOHNNY MATA DRIVE AND RUSSELL BOREA AVENUE) CURVATURE RETURN DUE TO RE-ALIGNMENT OF THE NEW DEVELOPMENT LAYOUT.

TOTAL LOTS

RESIDENTIAL	=127
PARK	=1
POND	=1
TOTAL	=129

LEGEND

— = 10' RESTRICTED VEHICULAR ACCESS



LINE TABLE

LINE	BEARING	LENGTH
L1	N87°00'35"W	8.95'
L2	S87°00'35"E	0.87'
L3	S02°59'25"W	105.00'
L4	N87°00'35"W	17.26'
L5	S03°02'29"E	26.00'
L6	S86°57'31"E	27.07'
L7	S03°02'29"W	113.95'
L8	S86°57'31"E	45.00'
L9	S03°02'29"W	124.43'
L10	S86°57'31"E	38.26'
L11	N03°03'05"E	95.00'
L12	S86°57'31"E	20.00'
L13	N03°03'05"E	52.00'
L14	N86°57'31"W	20.00'
L15	N03°03'05"E	198.38'
L16	S86°57'31"E	20.00'

LINE TABLE

LINE	BEARING	LENGTH
L17	N03°03'05"E	52.00'
L18	N86°57'31"W	1.21'
L19	N86°57'31"W	52.00'
L20	N03°02'29"E	46.00'
L21	N03°02'29"E	26.00'
L22	S86°57'31"E	47.19'
L23	N03°02'29"E	80.81'
L24	S03°02'29"W	55.95'
L25	S87°00'35"E	55.95'
L26	S87°00'35"E	181.27'
L27	S03°02'26"W	47.39'
L28	S03°02'26"W	25.96'
L29	N03°02'26"E	10.01'
L30	N03°02'29"E	16.32'
L31	S03°02'26"W	4.40'
L32	N86°57'31"W	5.00'

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	20.00'	31.42'	20.00'	28.28'	N41°57'31"W	090°00'30"
C2	20.00'	31.41'	20.00'	28.28'	N48°02'47"E	089°59'24"
C3	20.00'	31.42'	20.00'	28.28'	N41°57'31"W	090°00'30"
C4	20.00'	9.78'	4.99'	9.69'	S72°57'01"E	028°01'00"
C5	20.00'	9.78'	4.99'	9.69'	S72°57'01"E	028°01'00"
C6	20.00'	31.42'	20.00'	28.28'	S41°57'31"E	090°00'00"
C7	20.00'	31.42'	20.00'	28.28'	N48°02'29"E	090°00'00"
C8	56.00'	87.91'	55.95'	106.54'	S48°00'57"W	089°56'56"
C9	400.00'	109.89'	55.29'	106.54'	S10°54'39"E	015°44'28"
C10	400.00'	109.89'	55.29'	106.54'	N10°54'39"E	015°44'28"
C11	20.00'	31.42'	20.00'	28.28'	N41°57'31"W	090°00'00"
C12	20.00'	31.42'	20.00'	28.28'	N48°02'29"E	090°00'00"
C13	20.00'	31.42'	20.00'	28.28'	N48°02'29"E	090°00'00"
C14	20.00'	31.42'	20.00'	28.28'	N41°57'31"W	090°00'00"
C15	20.00'	31.42'	20.00'	28.28'	N48°02'29"E	090°00'00"
C16	20.00'	31.42'	20.00'	28.28'	N41°57'31"W	090°00'00"
C17	20.00'	7.63'	3.86'	7.58'	S76°00'15"E	021°50'40"
C18	20.00'	1.51'	0.75'	1.51'	S63°00'18"E	004°19'15"

CURVE TABLE

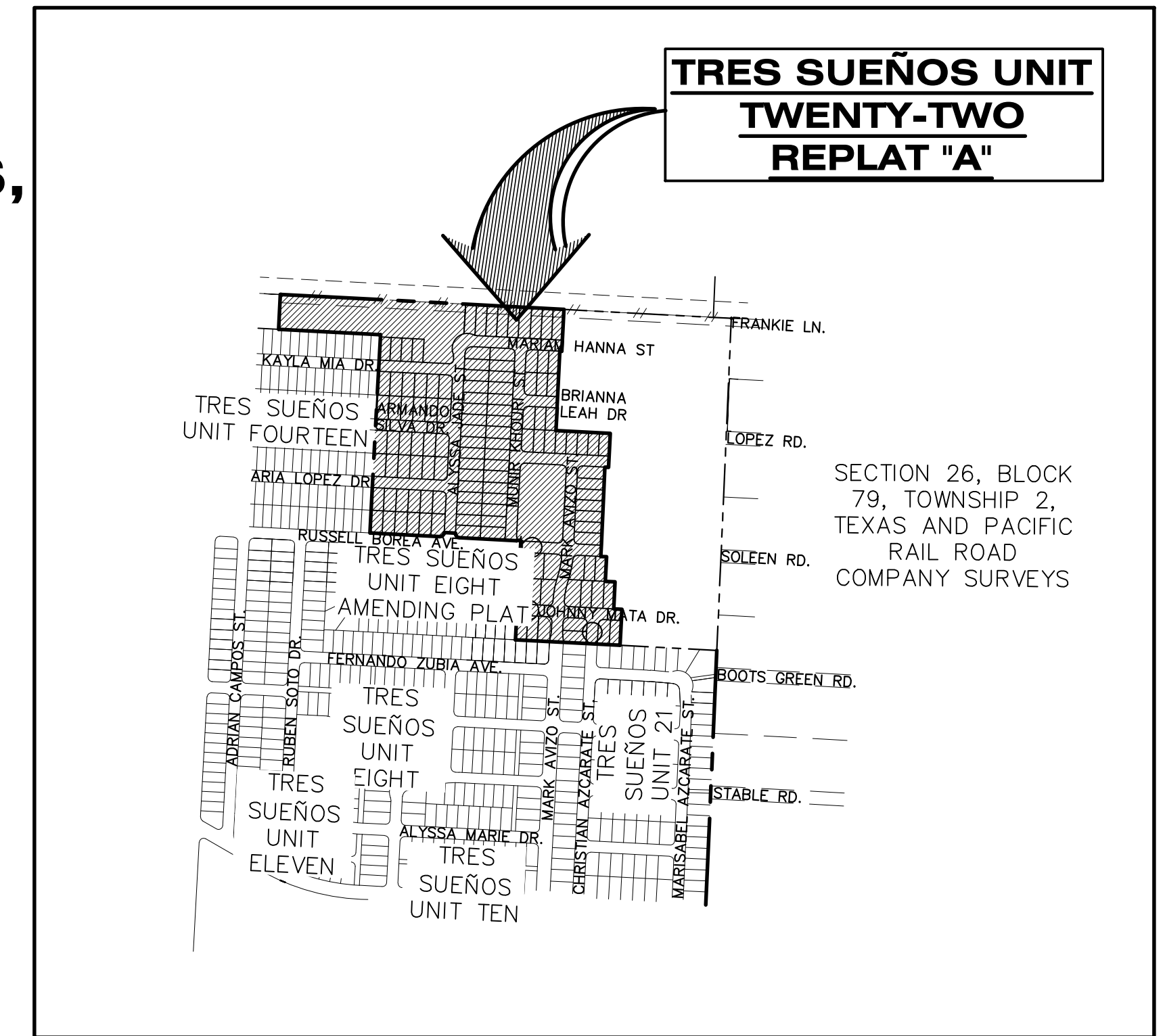
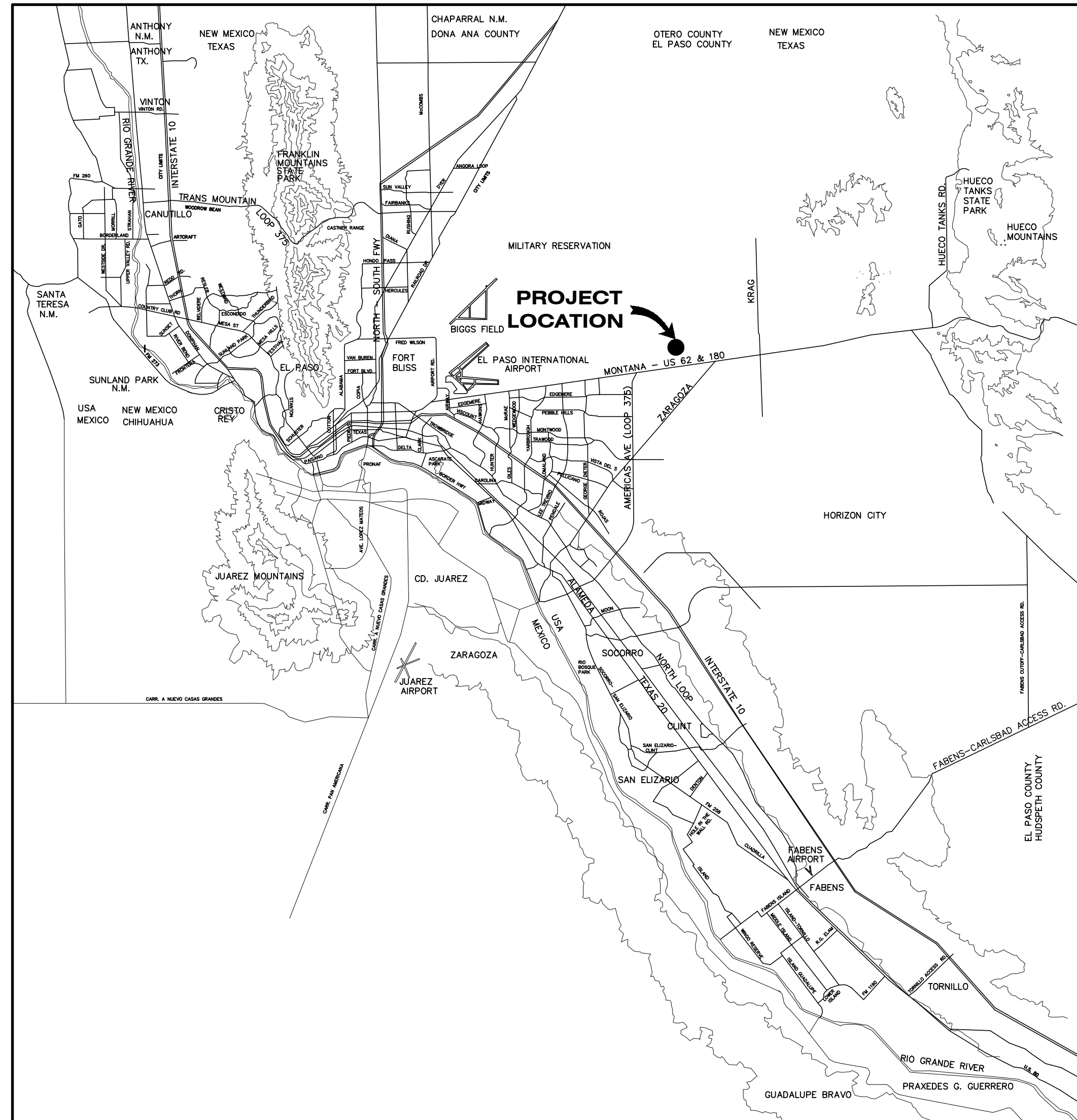
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C19	70.00'	50.44'	26.37'	48.35'	N81°29'08"W	041°16'56"
C20	70.00'	123.39'	64.91'	108.03'	S27°22'29"W	100°59'50"
C21	20.00'	9.13'	4.65'	9.05'	N10°02'29"E	028°00'50"
C22	20.00'	31.42'	20.00'	28.28'	N48°02'29"E	090°00'00"
C23	20.00'	31.43'	20.02'	28.30'	S41°56'03"E	090°03'04"
C24	20.00'	31.40'	19.98'	28.27'	S48°00'57"W	089°56'56"
C25	20.00'	31.43'	20.02'	28.30'	S41°56'03"E	090°03'04"
C26	20.00'	31.40'	19.98'	28.27'	S48°00'57"W	089°56'56"
C27	20.00'	31.40'	19.98'	28.27'	S48°00'57"W	089°56'56"
C28	20.00'	31.42'	20.00'	28.28'	S41°57'33"E	089°59'57"
C29	426.00'	1.84'	0.82'	1.84'	N18°04'14"E	000°13'16"
C30	426.00'	86.24'	48.33'	96.04'	N12°05'15"E	012°56'41"
C31	20.00'	31.34'	19.92'	28.23'	S42°04'17"E	088°49'29"
C32	374.00'	104.21'	52.45'	103.88'	S10°47'50"W	015°57'54"
C33	20.00'	30.52'	19.12'	27.64'	S49°19'42"W	087°25'34"
C34	20.00'	31.41'	20.00'	28.28'	S48°02'47"W	089°59'24"
C35	20.00'	31.42'	20.00'	28.28'	S48°02'27"W	090°00'03"
C36	20.00'	31.42'	20.00'	28.28'	N41°57'13"W	090°00'30"

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C37	105.00'	25.56'	12.85'	25.50'	N03°56'01"E	013°56'59"
C38	105.00'	25.56'	12.84'	25.50'	S03°56'02"E	013°56'56"
C39	20.00'	31.42'	20.00'	28.28'	N41°59'33"W	089°59'57"
C40	105.00'	24.76'	12.44'	24.70'	N08°47'42"E	013°30'33"
C41	105.00'	24.76'	12.44'	24.70'	S08°47'44"W	013°30'30"
C42	426.00'	100.01'	50.23'	99.78'	S09°35'16"W	013°27'02"
C43	426.00'	32.25'	21.17'	20.86'	N47°37'07"E	080°10'44"
C44	374.00'	81.57'	40.95'	81.41'	N12°31'59"E	012°29'46"
C45	20.00'	31.48'	20.06'	28.33'	N47°37'07"E	080°10'44"
C46	20.00'	21.64'	12.01'	20.60'	S27°57'01"E	061°59'00"
C47	20.00'	31.40'	19.98'	28.27'	S48°00'57"W	089°56'56"
C48	20.00'	31.43'	20.02'	28.30'	N41°59'05"W	090°03'01"
C49	20.00'	31.42'	20.00'	28.28'	N48°02'27"E	090°00'03"
C50	20.00'	31.43'	20.02'	28.30'	N41°59'05"W	090°03'01"
C51	30.00'	47.10'	29.97'	42.41'	S48°00'57"W	089°56'56"
C52	20.00'	31.43'	20.02'	28.30'	N41°59'03"W	090°03'04"
C53	20.00'	31.42'	20.00'	28.28'	N48°02'29"E	090°00'03"
C54	20.00'	31.42'	20.00'	28.28'	S41°57'13"E	090°00'00"

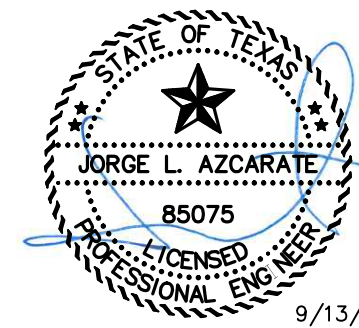
TRES SUEÑOS UNIT TWENTY-TWO REPLAT "A" SUBDIVISION IMPROVEMENTS

LEGAL DESCRIPTION
A REPLAT OF A PORTION OF RUSSELL BOREA AVENUE RIGHT-OF-WAY AND JOHNNY MATA DRIVE RIGHT-OF-WAY AND A PORTION OF SECTION 27, BLOCK 79, TOWNSHIP 2, TEXAS AND PACIFIC RAILROAD COMPANY SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING 29.87 ± ACRES



SHEET NUMBER	SHEET TITLE
CVR	COVER SHEET
C1.1	GENERAL INFORMATION
C2.1	FINAL PLAT
C3.1 & C3.2	GRADING PLAN & PARK DESIGN PLAN
C4.1 & C4.2	DRAINAGE PLAN
C5.1-C5.3	GRADING SECTIONS
C6.1-C6.13	STREET PLAN & PROFILES
C7.1-C7.4	STORM SEWER PLAN & PROFILES
C8.1	POND DESIGN PLAN
C9.1-C9.3	STANDARD DETAILS
C10.1, C10.5	DRAINAGE DETAILS
C11.1 & C11.2	ILLUMINATION PLAN
C12.1	WATER INDEX / GENERAL INFORMATION
C12.5-C12.5	WATER DETAILS
C13.1	SANITARY SEWER INDEX / GENERAL INFORMATION
C13.2-C13.6	SANITARY SEWER PLAN & PROFILES
C13.7-C13.9	SANITARY SEWER DETAILS
C14.1-C14.3	STORM WATER POLLUTION PREVENTION PLAN
L1-L7	LANDSCAPE AND IRRIGATION PLANS

VICINITY MAP
 APPROXIMATE SCALE:
 1" = 2 MILES



JORGE L. AZCARATE, P.E. PROJECT MANAGER

cea 813 N. Kansas St.
 Suite 300
 El Paso, TX 79902
 915.544.5232
 www.ceagroup.net
TEXAS REGISTERED ENGINEERING FIRM F-4564

LOCATION MAP
 APPROXIMATE SCALE: 1" = 600'



CITY DEVELOPMENT DEPARTMENT

Reviewed For Conformance For Condition Related To:

- Sidewalk
- Driveways
- Grading & Drainage
- Retaining Rock Walls
- Wheelchair Ramps
- On site Ponding of Storm Waters
- On Site Parking Layout

Contractor Must Call 24 Hours Prior To Construction for Inspections

PRINCIPAL CONTACTS:					
NAME	ADDRESS	CITY & ZIP	PHONE	FAX	
OWNER:	G. BOWLING ENTERPRISES, LLC.	4712 WOODROW BEAN, STE. A	EL PASO, TX 79924	(915) 757-1802	(915) 757-1827
ENGINEER:	CEA GROUP	813 N. KANSAS STREET, STE. 300	EL PASO, TX 79902	(915) 544-5232	---
SURVEYOR:	BARRAGAN & ASSOCIATES	10950 PELLICANO DR. BUILDING F	EL PASO, TX 79935	(915) 591-5709	(915) 591-5706

Oscar Romero Villalobos 09/22/2021
 By Date

GENERAL NOTES

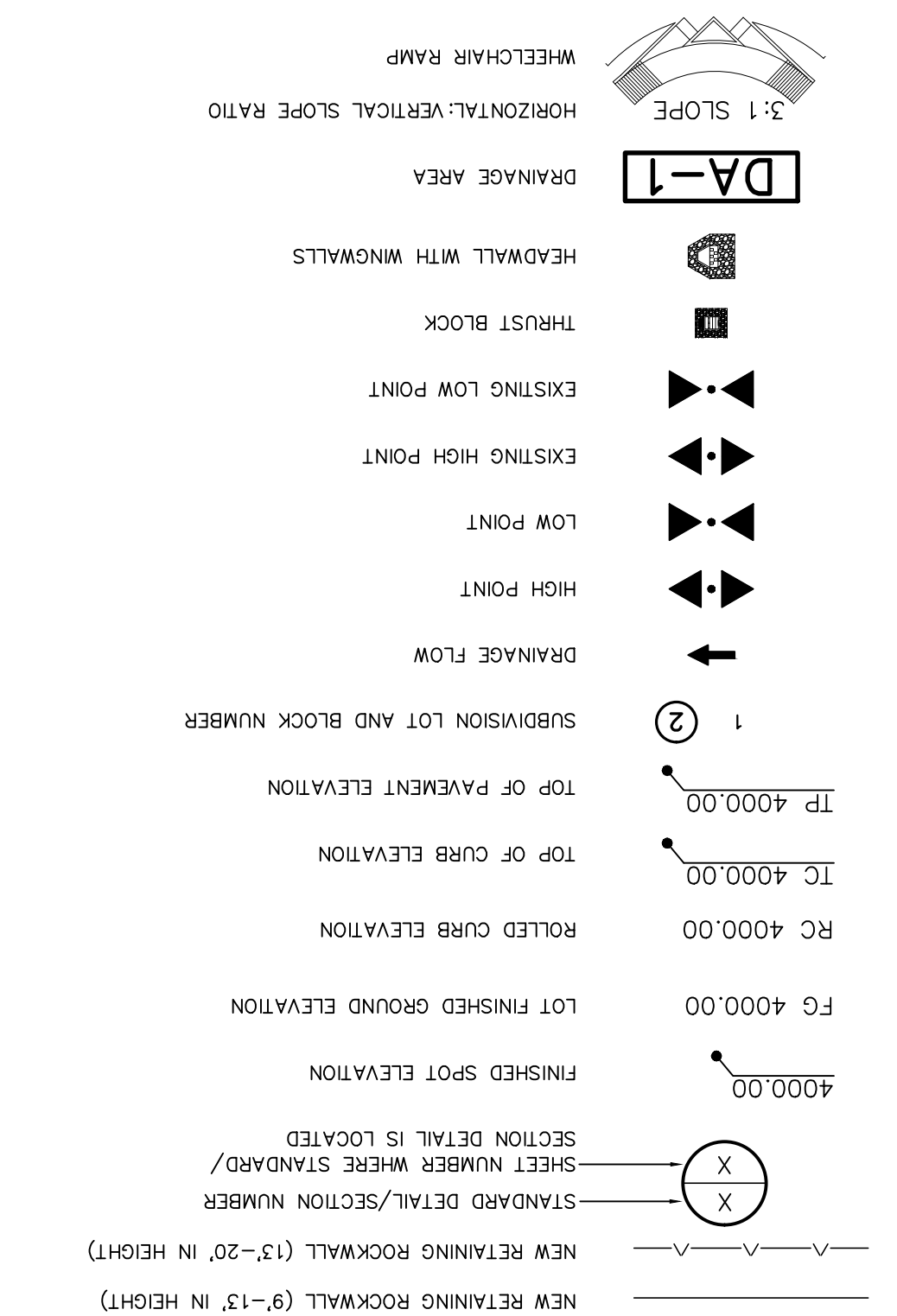
- 1. THE CONTRACTOR SHALL VISIT AND FAMILIARIZE HIMSELF WITH THE PROJECT SITE PRIOR TO SUBMITTING BIDS.
2. CONTRACTOR SHALL WATER CONSTRUCTION AREA A MINIMUM OF TWICE BEFORE QUITTING TIME.
3. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE STORM RUNOFF DURING THE COURSE OF HIS OPERATIONS.

GRADING SPECIFICATIONS

- 1. CLEARING AND GRUBBING: CLEAR SITE OF TREES, SHRUBS AND OTHER VEGETATION; COMPLETELY REMOVE STUMPS, ROOTS AND OTHER DEBRIS.
2. SATISFACTORY FILL MATERIALS: FILL MATERIALS SHALL BE FREE OF ANY ORGANIC OR DELETERIOUS SUBSTANCE AND SHALL NOT CONTAIN ROCKS OR LUMPS OVER 3 INCHES IN GREATEST DIMENSION AND SHALL BE DEFINED AS THOSE COMPLYING WITH ASTM D2487 SOIL CLASSIFICATION.

ABBREVIATIONS

- LP LOW POINT
HP HIGH POINT
ELEVATION ELEVATION
STA STATION
VCS VERTICAL CURVE ELEVATION
VC SECTION DETAIL IS LOCATED



INDEX OF DRAWINGS

Table with 2 columns: DRAWING NAME and SHEET NO.
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UTILITY LOCATOR SERVICES
EL PASO ELECTRIC COMPANY (915) 543-5220
EL PASO ENERGY CORPORATION (915) 496-5244
EL PASO WATER UTILITIES (915) 594-5500
MCI SURVEILLANCE (800) MCI-WORK
TMC WARMER COMMUNICATIONS (915) 772-1123
TEXAS GAS SERVICE (915) 850-7200
U.S. SPRINT TELECOM (800) 521-0579

WARNING! BEFORE YOU DIG CALL 811

FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
CITY MONUMENT AT POINT OF CURVE CENTERLINE, RICH BEEM BLVD., S04°43'31" A DISTANCE OF 467.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTEANA AVENUE.
ELEVATION: 4014.90 (NANO 88) (4005.40 CITY DATUM)

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DRAINAGE DETAILS (SHEET 2 OF 5) C10.2
DRAINAGE DETAILS (SHEET 3 OF 5) C10.3
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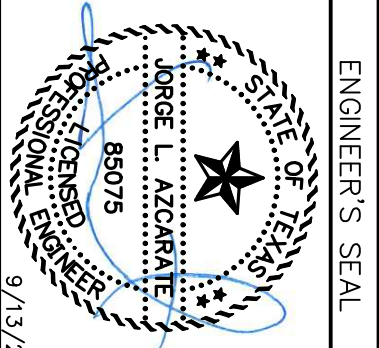
DATE 08/22/2021
BY Oscar Villalobos



REVISIONS

Table with columns: DATE, REVISIONS, BY

CEEP TEXAS REGISTERED ENGINEERING FIRM F-4564
813 N. Kansas St. Suite 300 El Paso, TX 79902
El Paso, TX 79902
www.ceepgroup.net
915.544.5292



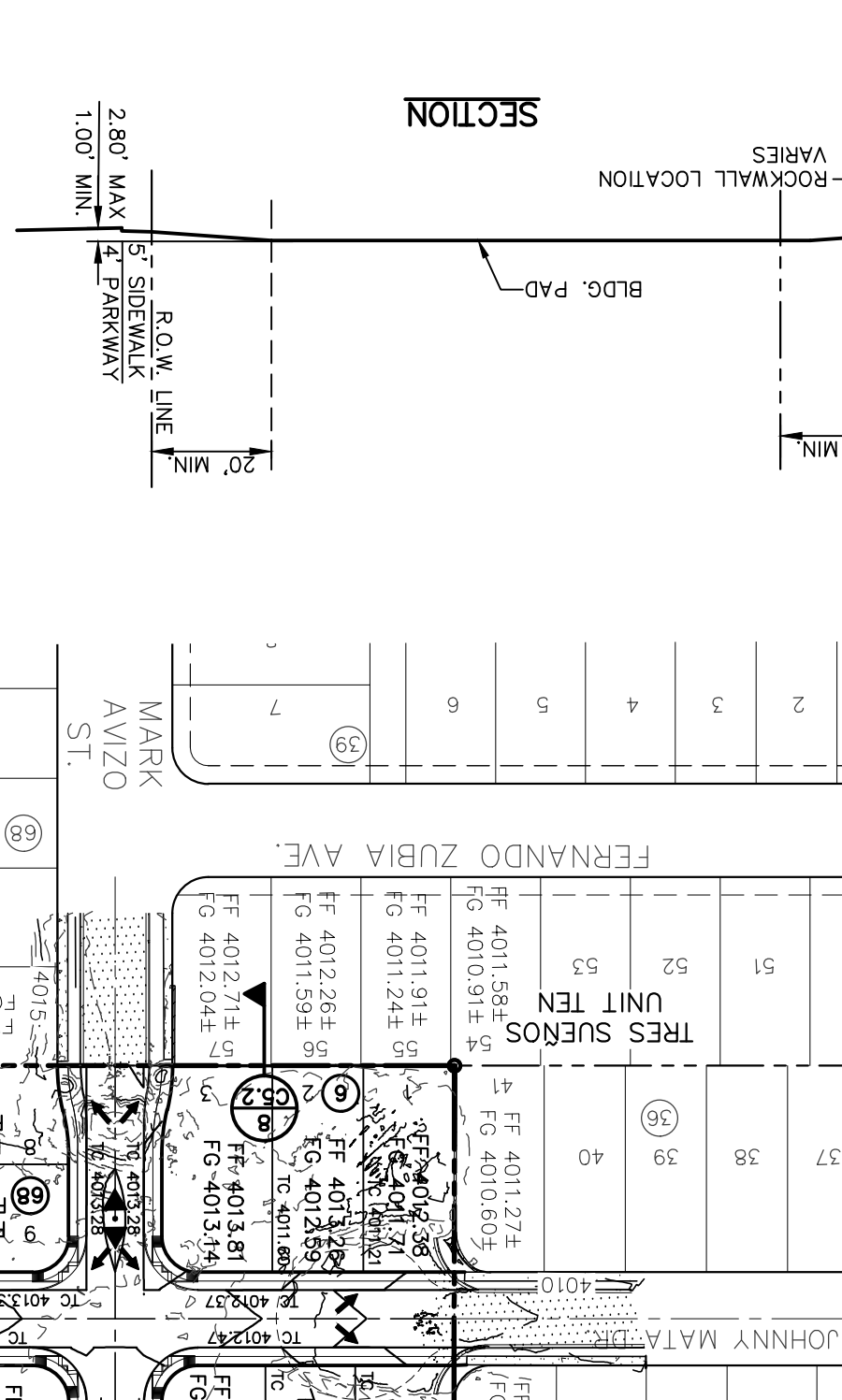
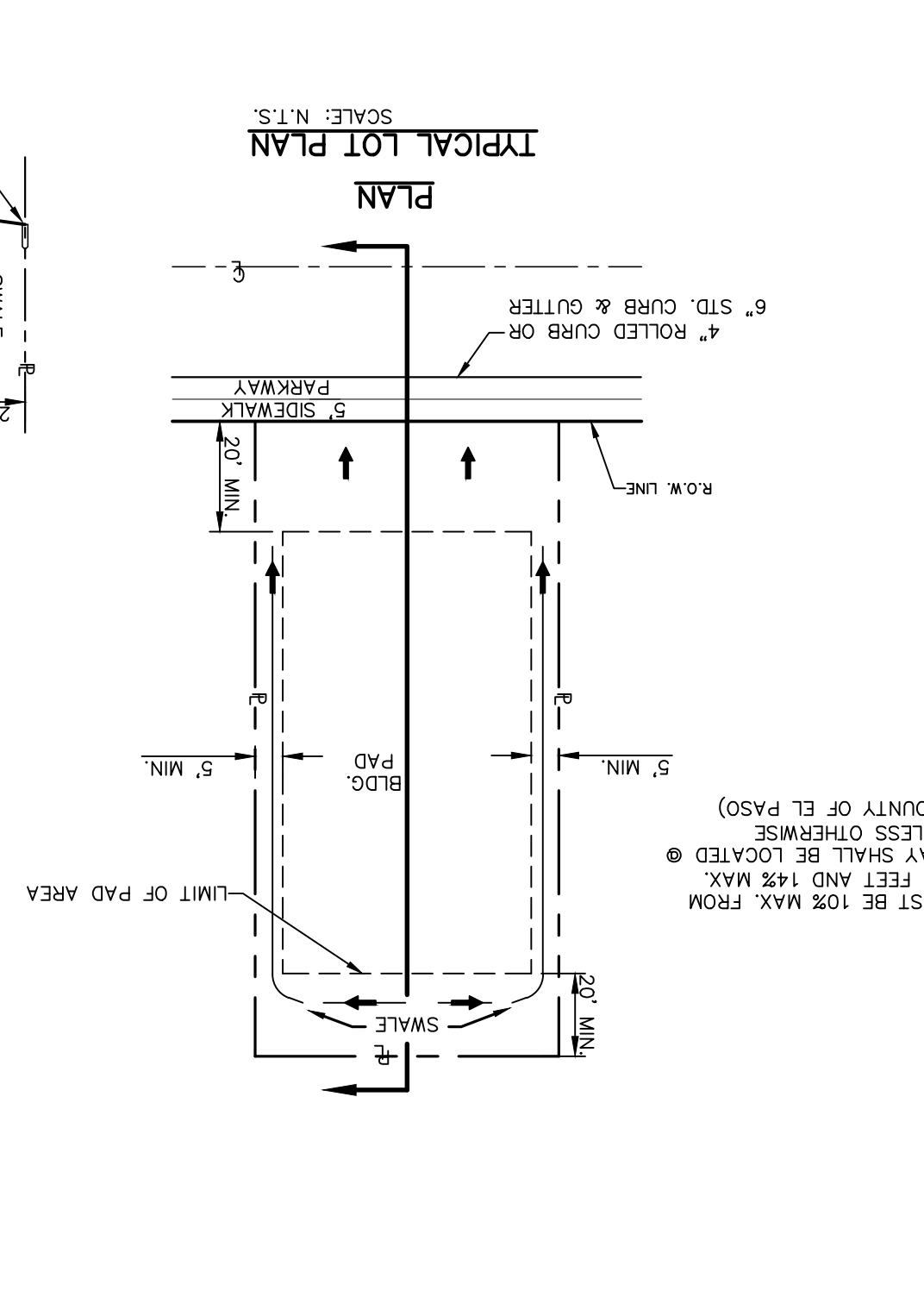
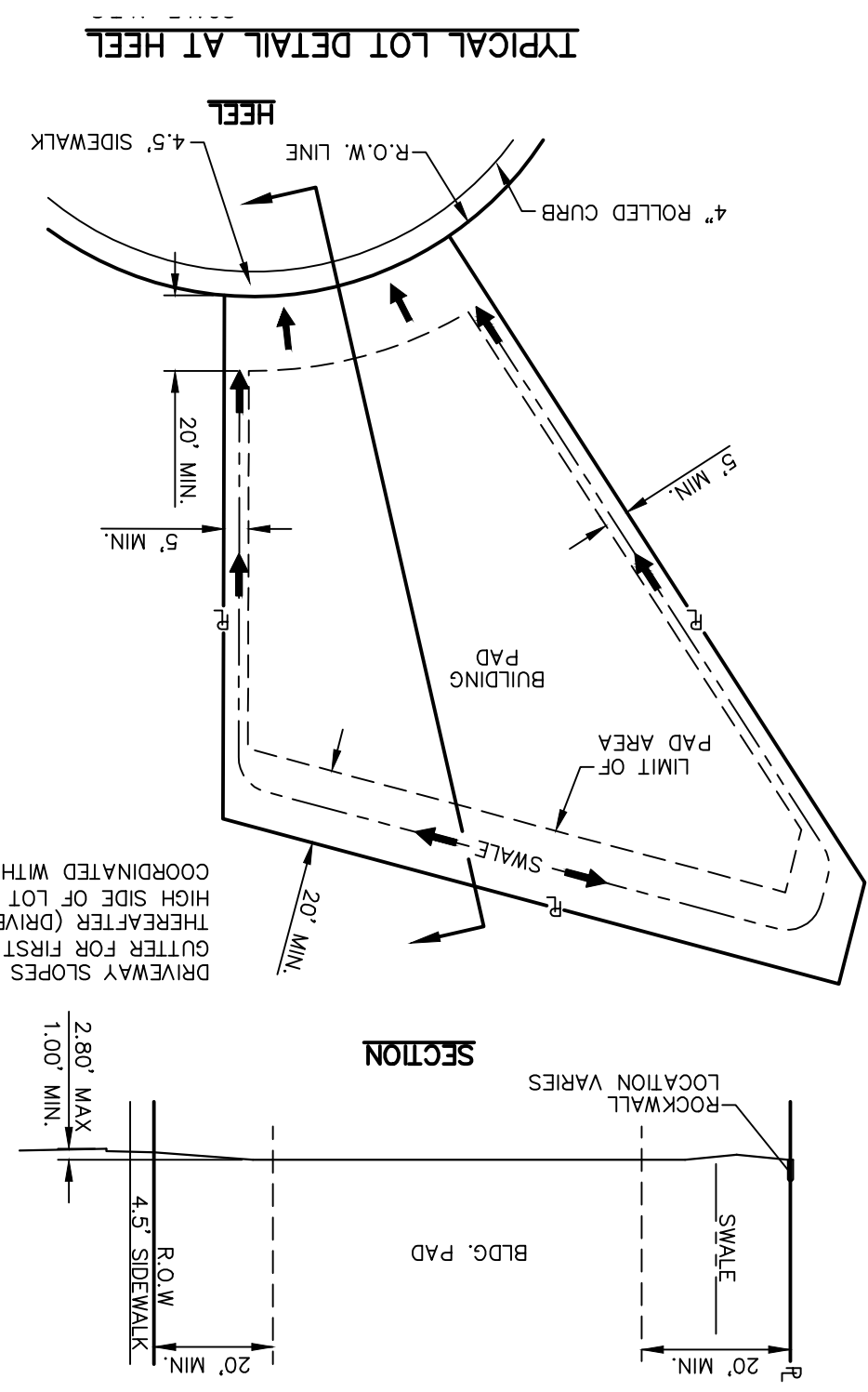
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Horizontal: Vertical:
Contour Interval: N/A
Date: SEPTEMBER 2021
DESIGN BY: GJM
DRAWN BY: E.Z.
CHKD. BY: F.Z.
APPVD. BY: J.L.A.
JOB No.: 2000-228

PROJECT TITLE: TRES SUEÑOS UNIT TWENTY TWO REPLAT "A" SUBDIVISION IMPROVEMENTS

SHEET TITLE

GENERAL INFORMATION

SHEET NO. C1.1

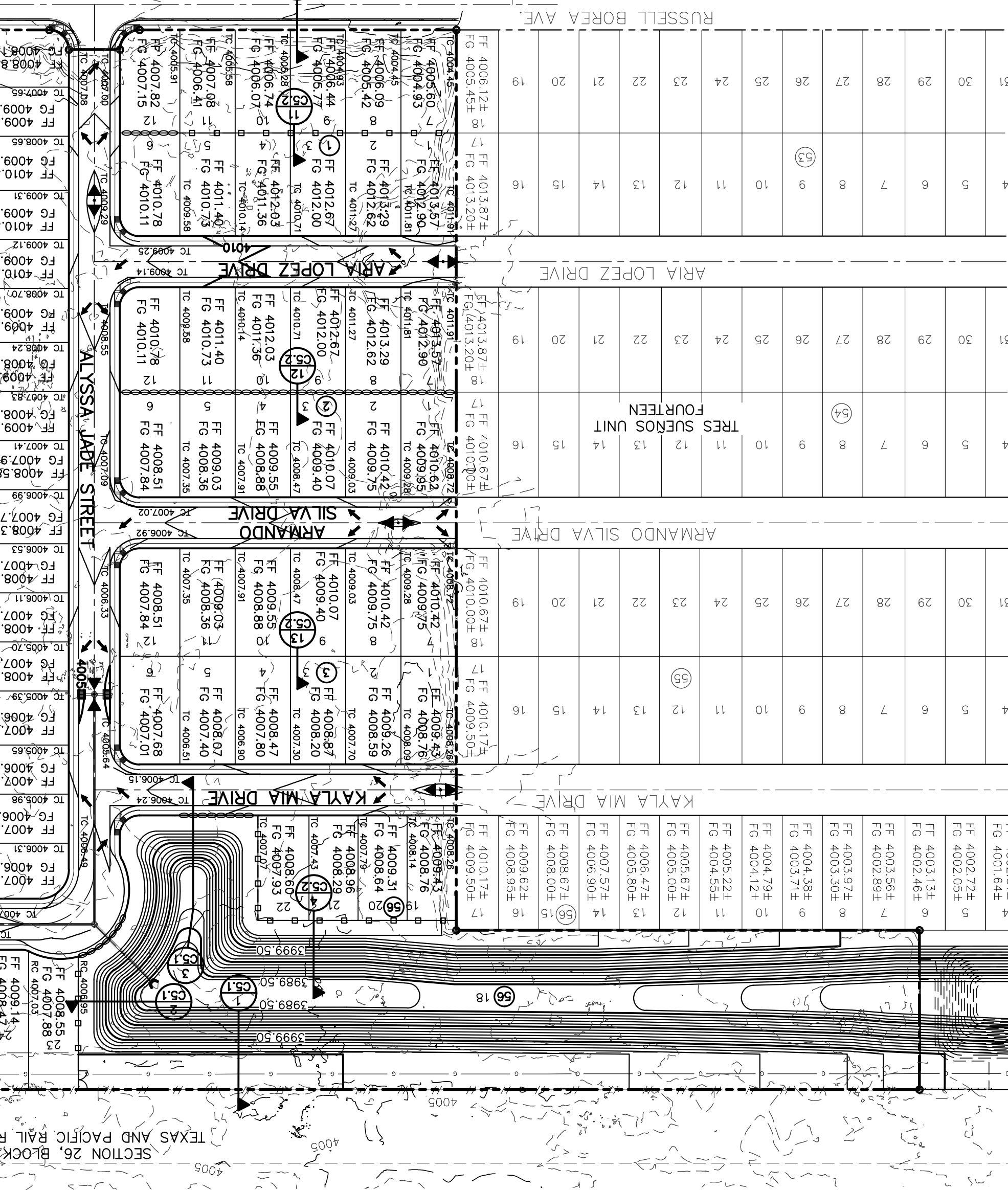


1	2	3	4
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27	26	25	24
28	27	26	25
29	28	27	26
30	29	28	27

RUBEN SOTO DR.

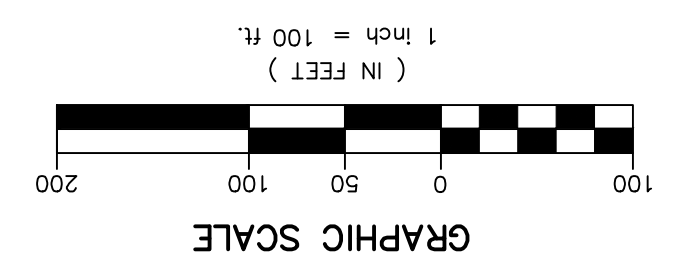
1	2	3	4
18	19	20	21
27	26	25	24
28	27	26	25
29	28	27	26
30	29	28	27

TRES SUEÑOS UNIT EIGHT AMENDING PLAT



DATE: 09/22/2021

BY: Oscar Villalobos



GRADING PLAN

SCALE: 1" = 100'

GRAPHIC SCALE

1 inch = 100 ft. (IN FEET)

ACT OF 1988 (42 U.S.C. SECTIONS 4001 THROUGH 4127). THIS SUBDIVISION LIES WITHIN ZONE "X" AS DESIGNATED BY F.E.M.A.; EL PASO COUNTY, ANY AREA OF THE SUBDIVISION THAT IS IN THE 100-YEAR FLOODPLAIN IS PROHIBITED UNLESS THE HOUSING OUTLINES FOR INSURANCE UNDER THE NATIONAL FLOOD INSURANCE ACT OF 1968 (42 U.S.C. SECTIONS 4001 THROUGH 4127).

FLOOD ZONE:

BENCHMARK:

NOTES:

LEGEND:

UTILITY LOCATOR SERVICES

REFERENCES - BENCHMARKS:

DATE: 09/22/2021

BY: Oscar Villalobos

WARNING! BEFORE YOU DIG

CALL 811

UTILITY LOCATOR SERVICES

813 N. Kansas St. Suite 300 El Paso, TX 79902 915.544.5292 www.cegroup.net

CE GROUP TEXAS REGISTERED ENGINEERING FIRM F-4564

ENGINEER'S SEAL

DATE: SEPTEMBER 2021

DESIGN BY: G.J.M.

DRAWN BY: E.Z.

CHKD. BY: J.L.A.

APPVD. BY: J.L.A.

JOB NO.: 2000-228

SCALE: 1" = 100'

Horizontal: N/A

Vertical: N/A

Contour Interval: N/A

DATE: SEPTEMBER 2021

DESIGN BY: G.J.M.

DRAWN BY: E.Z.

CHKD. BY: J.L.A.

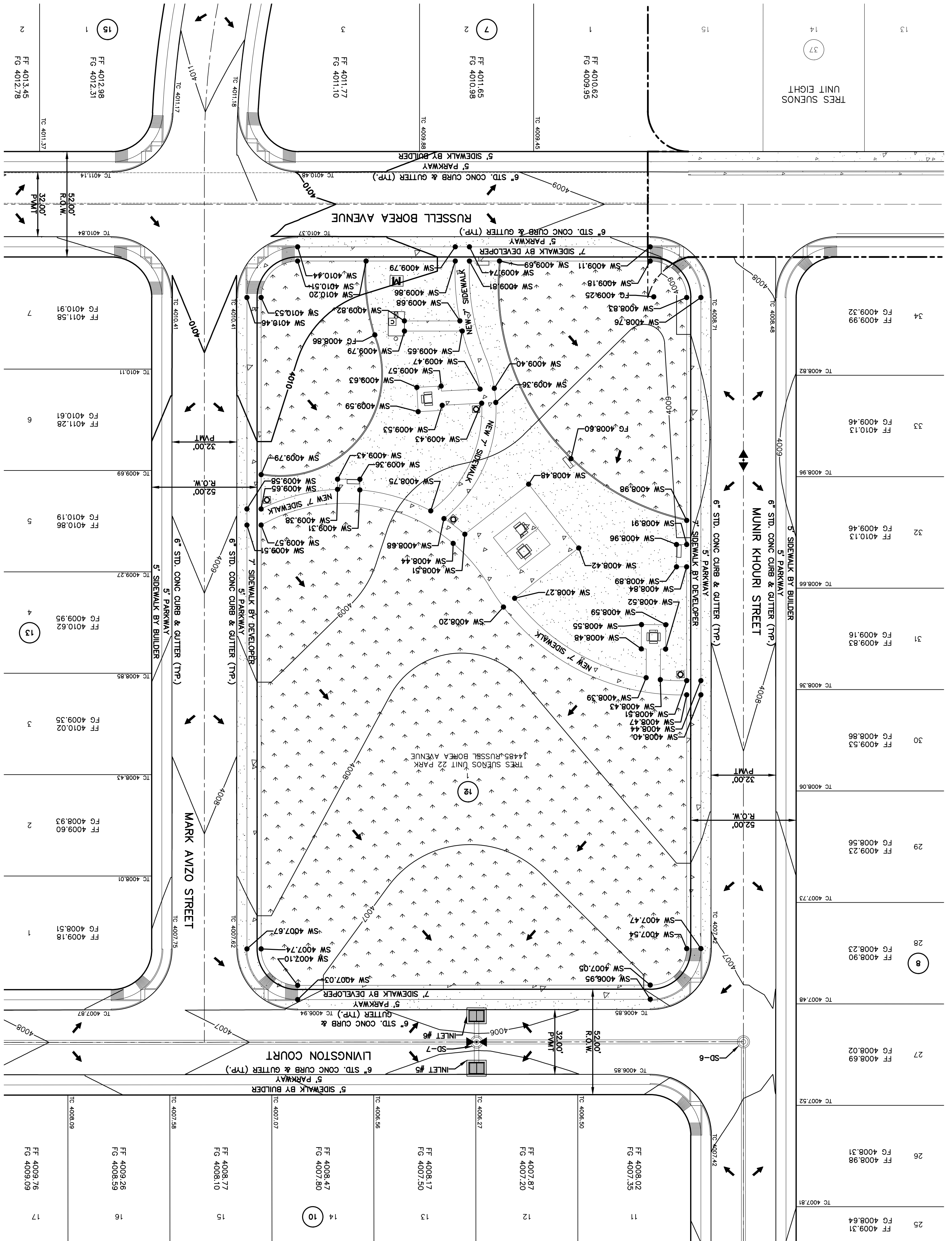
APPVD. BY: J.L.A.

JOB NO.: 2000-228

PROJECT TITLE: TRES SUEÑOS UNIT TWENTY TWO REPLAT "A" SUBDIVISION IMPROVEMENTS

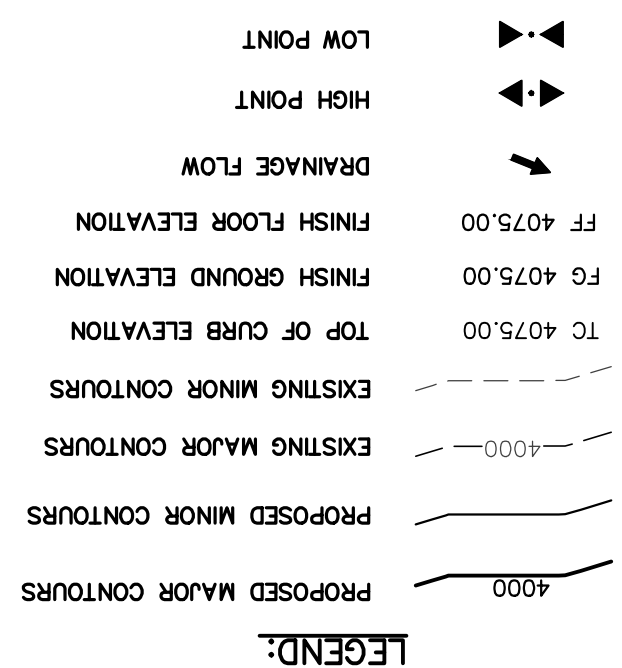
SHEET TITLE: GRADING PLAN

SHEET NO.: C3.1



BY Oscar Villalobos 09/22/2021 DATE

PARK DESIGN PLAN SCALE: 1" = 30'



UTILITY LOCATOR SERVICES	CONTACT INFORMATION
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TMC WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 850-7200
SBC	(800) 545-6000
AT&T	(800) 452-3786
U.S. SPRINT TELECOMM	(800) 521-0579

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PROJECT TITLE: TRES SUENOS UNIT TWENTY TWO REPLAT "A" SUBDIVISION IMPROVEMENTS

SCALE: 1" = 30'

Horizontal: N/A
Vertical: N/A
Contour Interval: N/A

DATE: SEPTEMBER 2021
DESIGN BY: GJM
DRAWN BY: E.Z.
CHKD. BY: J.L.A.
APPD. BY: 2000-228

ENGINEER'S SEAL: [Professional Engineer Seal]

813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5292
www.ceagroup.net

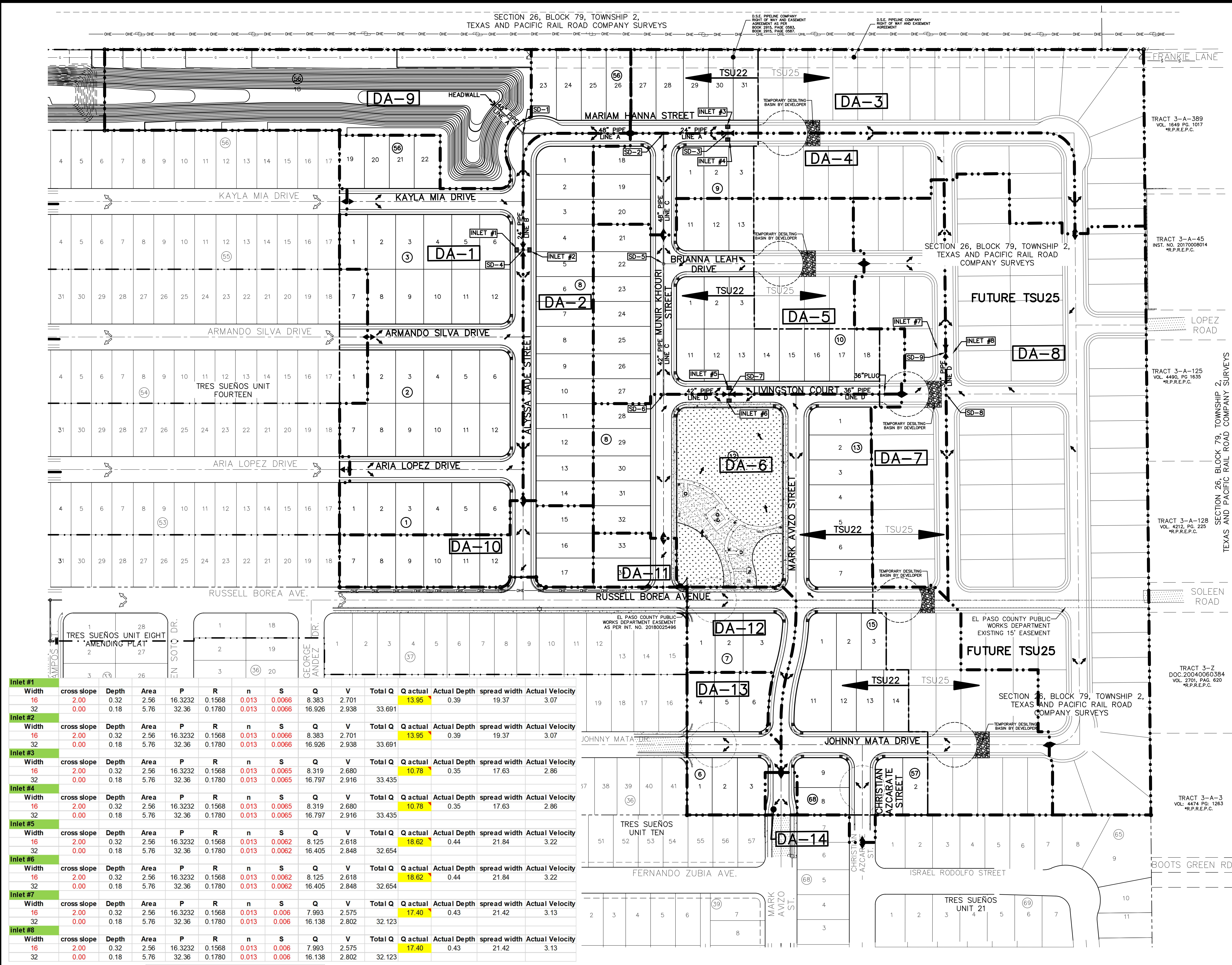
TEXAS REGISTERED ENGINEERING FIRM F-4564

DATE: _____ BY: _____

REVISIONS: _____

REFERENCES - BENCHMARKS: CITY MONUMENT AT POINT OF CURVE CENTERLINE, RICH BEEM BLVD., S08+33.71 A DISTANCE OF 467.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE. ELEVATION: 4014.90 (NAVD 88) (4905.40 CITY DATUM)

C3.2



UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

WARNING!
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FOR FIELD LOCATING EXISTING UTILITIES

LEGEND:

	DRAINAGE AREA BOUNDARY
	DRAINAGE FLOW
	HIGH POINT
	LOW POINT
	DROP INLET
	STORM SEWER MANHOLE (SD)
	RCP
	HEADWALL STRUCTURE
	DA-10 DRAINAGE AREA
	WS-10 EXISTING DRAINAGE AREA
	EXISTING DRAINAGE FLOW
	EXISTING HIGH POINT
	EXISTING LOW POINT
	PROPOSED TEMPORARY DESILTING BASIN

100 YEAR STORM CALCULATIONS FOR WATERSHED AREAS

DRAINAGE AREA NO. (1)	DRAINAGE AREA (AC) (2)	DESIGN STORM INTENSITY (1100) (3)	TIME OF CONCENTRATION (4)	RUNOFF COEFF. (C) (5)	Q100 (CFS) (6)
DA-1	6.83	4.95	13.26	0.60	20.29
DA-2	2.44	5.19	11.28	0.60	7.60
DA-3	4.60	4.68	15.72	0.60	12.92
DA-4	3.07	4.69	15.66	0.60	8.64
DA-5	4.87	4.82	14.40	0.60	14.08
DA-6	9.35	4.27	20.10	0.58	23.16
DA-7	2.66	5.22	11.10	0.60	6.33
DA-8	9.87	4.47	17.82	0.60	26.47
DA-9	3.58	5.36	10.00	0.50	9.59
DA-10	1.44	5.36	10.00	0.60	4.63
DA-11	0.40	5.36	10.00	0.60	1.29
DA-12	0.92	5.36	10.00	0.60	2.96
DA-13	1.11	5.36	10.00	0.60	3.57
DA-14	0.13	5.36	10.00	0.95	0.66

REFERENCE: CITY OF EL PASO SUBDIVISION STANDARDS (JUNE 2008)

- WATERSHED AREA IDENTIFICATION
- AREA FROM DRAINAGE PLAN
- RAINFALL INTENSITY, 100 YEAR STORM => CENTRAL INTENSITY EQUATIONS (4-7)
 $I_{100} = \frac{144.20}{(T_c + 25.944)^{0.9190}}$ EQUATION 4-25
- TIME OF CONCENTRATION: $T_C = T$ (OVERLAND) + T (GUTTER)
- TABLE 4-5: RATIONAL METHOD DEVELOPED CONDITION COEFFICIENT (100yr C)
 SINGLE FAMILY RESIDENTIAL = 0.60
 PAVEMENT AND ROOFTOPS = 0.95
 GENERAL OPEN SPACE = 0.50
- $Q_{100} = C \times A \times I_{100}$
 C = RATIONAL COEFFICIENT
 A = COMPUTED CONTRIBUTING WATERSHEDS AREA, ACRES
 I = RAINFALL INTENSITY, INCH PER HOUR

POND

BASIN NO.	REQUIRED CAPACITY (AC.-FT.)	AVAILABLE CAPACITY (AC.-FT.)	PEAK INFLOW (CFS)	OUTLET FLOW (CFS)	HIGH WATER SURFACE ELEV. (FT.)	BOTTOM ELEVATION (FT.)	FREE BOARD (FT.)	TOP ELEVATION
1	11.39	16.24	157.89	0	3997.30	3987.50	2.20	3999.50

NOTE: THE HGL REFLECTS THE ELEVATION AS REQUIRED BY THE CITY OF EL PASO
HGL = QT
HGL = 11.39 AC-FT
CONTOUR 3996.50, ACCUMULATED VOLUME=9.82 AC-FT
CONTOUR 3997.50, ACCUMULATED VOLUME=11.79 AC-FT
HYDRAULIC GRADE LINE ELEVATION=3997.30

Inlet #	Width	cross slope	Depth	Area	P	R	n	S	Q	V	Total Q	Q actual	Actual Depth	spread width	Actual Velocity
Inlet #1	16	2.00	0.32	2.56	16.3232	0.1568	0.013	0.0066	8.383	2.701	13.95	0.39	19.37	3.07	
	32	0.00	0.18	5.76	32.36	0.1780	0.013	0.0066	16.926	2.938	33.691				
Inlet #2	16	2.00	0.32	2.56	16.3232	0.1568	0.013	0.0066	8.383	2.701	13.95	0.39	19.37	3.07	
	32	0.00	0.18	5.76	32.36	0.1780	0.013	0.0066	16.926	2.938	33.691				
Inlet #3	16	2.00	0.32	2.56	16.3232	0.1568	0.013	0.0065	8.319	2.680	10.78	0.35	17.63	2.86	
	32	0.00	0.18	5.76	32.36	0.1780	0.013	0.0065	16.797	2.916	33.435				
Inlet #4	16	2.00	0.32	2.56	16.3232	0.1568	0.013	0.0065	8.319	2.680	10.78	0.35	17.63	2.86	
	32	0.00	0.18	5.76	32.36	0.1780	0.013	0.0065	16.797	2.916	33.435				
Inlet #5	16	2.00	0.32	2.56	16.3232	0.1568	0.013	0.0062	8.125	2.618	18.62	0.44	21.84	3.22	
	32	0.00	0.18	5.76	32.36	0.1780	0.013	0.0062	16.405	2.848	32.654				
Inlet #6	16	2.00	0.32	2.56	16.3232	0.1568	0.013	0.0062	8.125	2.618	18.62	0.44	21.84	3.22	
	32	0.00	0.18	5.76	32.36	0.1780	0.013	0.0062	16.405	2.848	32.654				
Inlet #7	16	2.00	0.32	2.56	16.3232	0.1568	0.013	0.006	7.993	2.575	17.40	0.43	21.42	3.13	
	32	0.00	0.18	5.76	32.36	0.1780	0.013	0.006	16.138	2.802	32.123				
Inlet #8	16	2.00	0.32	2.56	16.3232	0.1568	0.013	0.006	7.993	2.575	17.40	0.43	21.42	3.13	
	32	0.00	0.18	5.76	32.36	0.1780	0.013	0.006	16.138	2.802	32.123				

MOMENTUM COMPUTATION

LOCATION @ INLET (1)	DEPTH (2)	VELOCITY (3)	PRODUCT NUMBER (4)
1	0.39	3.07	1.19
2	0.39	3.07	1.19
3	0.35	2.86	1.01
4	0.35	2.86	1.01
5	0.44	3.22	1.41
6	0.44	3.22	1.41
7	0.43	3.13	1.34
8	0.43	3.13	1.34

POND CALCULATIONS

QT = (ARC)/12
QT = 11.39 AC-FT
A = 57.89 Ac
H = 4"
Cw = 0.59

QT = (ARC)/12
QT = 11.39 AC-FT

TOTAL req = 11.39 AC-FT

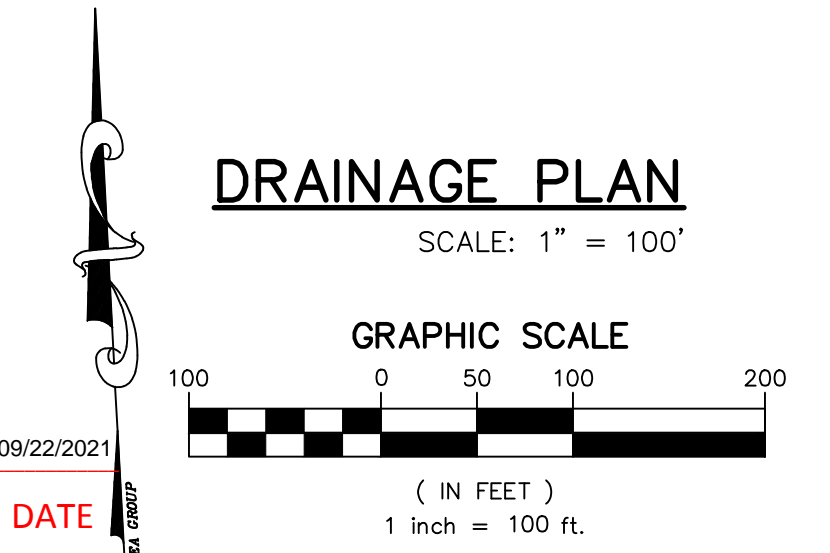
POND AREAS

CONTOUR	ACCUMULATED VOLUME (AC.-FT.)
3987.50	0.00
3988.50	0.24
3989.50	0.71
3990.50	1.47
3991.50	2.44
3992.50	3.59
3993.50	4.90
3994.50	6.38
3995.50	8.02
3996.50	9.82
3997.50	11.79
3998.50	13.93
3999.50	16.24

DROP INLETS

NO.	EXPECTED FLOW Qexp (CFS)	ADDITIONAL FLOW Qadd (CFS) FROM INLET #	CROWN @ OVERTOP (CFS)	Q REQUIRED Qactual (CFS)	AVAIL FLOW CAPACITY Q AVAIL (CFS)	FLOW BYPASS Qbyp (CFS) TO INLET #	# OF GRATES	TYPE OF INLET	INLET LOCATION
1	20.29	0	6.35	13.95	19.27	0	2	I	ON SUMP
2	7.60	6.35 CFS FROM I-1	0	13.95	19.27	0	2	I	ON SUMP
3	12.92	0	2.14	10.78	19.27	0	2	III	ON SUMP
4	8.64	2.14 CFS FROM I-3	0	10.78	19.27	0	2	I	ON SUMP
5	14.08	4.54 CFS FROM I-6	0	18.62	19.27	0	2	I	ON SUMP
6	23.16	0	4.54	18.62	19.27	0	2	I	ON SUMP
7	8.33	9.07 CFS FROM I-8	0	17.40	19.27	0	2	I	ON SUMP
8	26.47	0	9.07	17.40	19.27	0	2	I	ON SUMP

NOTE: SUMP INLET CAPACITIES ARE BASED ON 50% CLOGGING FACTOR.



REFERENCES - BENCHMARKS
CITY MONUMENT AT POINT OF CURVE GENERINE RICH BEEM BLVD., 508+43.31" A DISTANCE OF 487.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)

813 N. Kansas St.
Suite 300
El Paso, TX 79902
DATE: SEPTEMBER 2021
DESIGN BY: G.J.M.
DRAWN BY: E.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB NO.: 2000-228

CSA GROUP
TEXAS REGISTERED ENGINEERING FIRM F-4564

ENGINEER'S SEAL

SCALE: 1" = 100'
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A

DATE: SEPTEMBER 2021
DESIGN BY: G.J.M.
DRAWN BY: E.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB NO.: 2000-228

TRES SUEÑOS UNIT TWENTY TWO REPLAT "A" SUBDIVISION IMPROVEMENTS

SHEET TITLE

DRAINAGE PLAN
(SHEET 1 OF 2)
SHEET NO.

C4.1

TOTAL AREAS AND RUNOFF TO POND					
100 YEAR STORM CALCULATIONS FOR WATERSHED AREAS					
DRAINAGE AREA NO. (1)	DRAINAGE AREA (AC) (2)	DESIGN STORM INTENSITY (1100) (3)	TIME OF CONCENTRATION (4)	RUNOFF COEFF. (C) (5)	Q100 (CFS) (6)
DA-1	6.83	4.95	13.26	0.60	20.29
DA-2	2.44	5.19	11.28	0.60	7.60
DA-3	4.60	4.68	15.72	0.60	12.92
DA-4	3.07	4.69	15.66	0.60	8.64
DA-5	4.87	4.82	14.40	0.60	14.08
DA-6	9.35	4.27	20.10	0.58	23.16
DA-7	2.66	5.22	11.10	0.60	8.33
DA-8	9.87	4.47	17.82	0.60	26.47
DA-9	3.58	5.36	10.00	0.50	9.59
WATERSHED AREAS FROM TRES SUEÑOS U14					
WS-1	5.28	4.17	21.36	0.60	13.21
WS-2	2.25	4.20	21.00	0.60	5.67
WS-3	2.20	4.20	21.00	0.60	5.54
WS-4	0.89	5.36	10.00	0.50	2.39
TOTAL	57.89			TOTAL	157.89

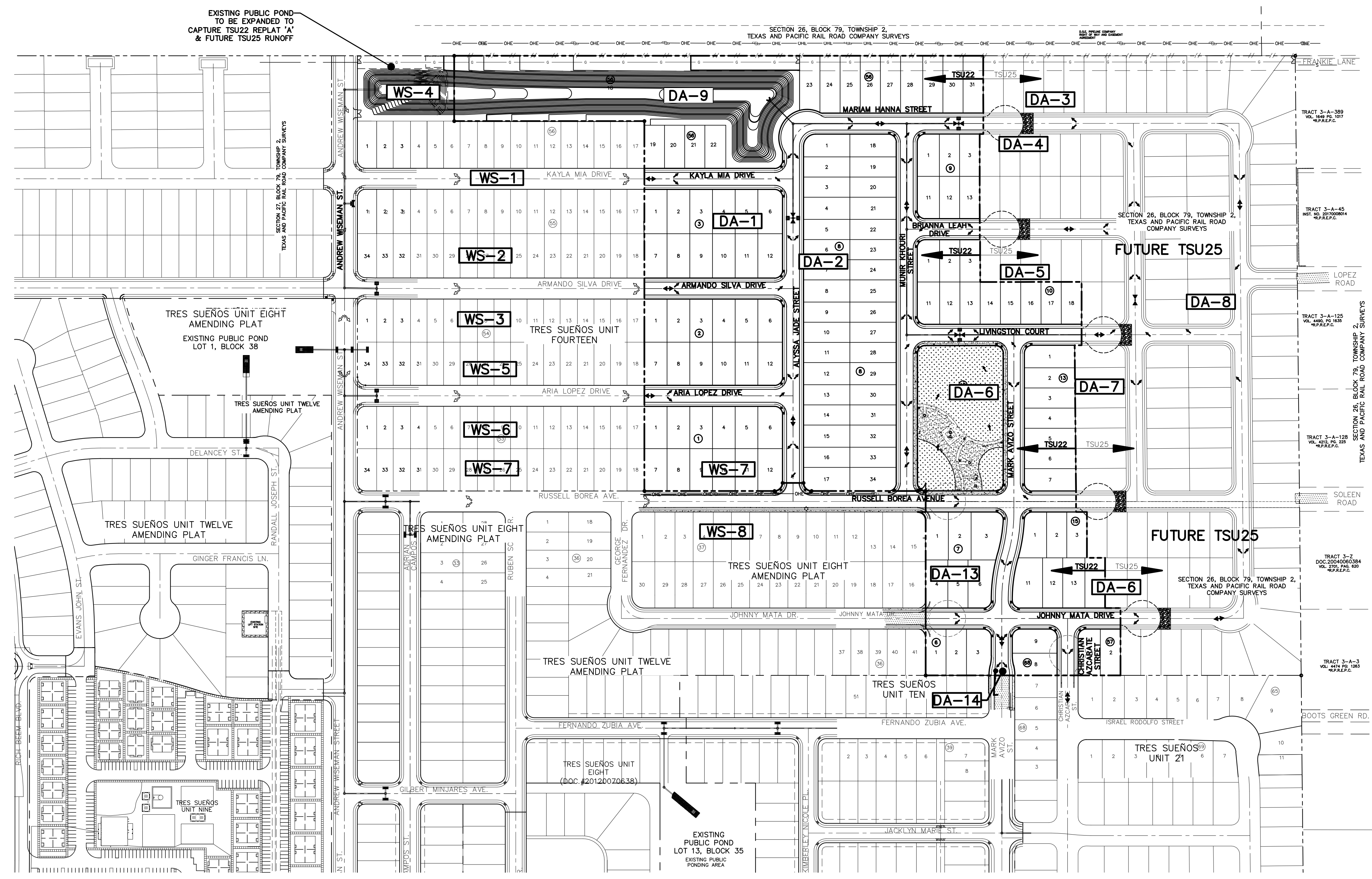
WATERSHED AREAS TO DISCHARGED TO EXISTING POND ON LOT 1, BLOCK 38. TSUB AMENDING PLAT. AS INDICATED ON TSU14					
100 YEAR STORM CALCULATIONS FOR WATERSHED AREAS					
DRAINAGE AREA NO. (1)	DRAINAGE AREA (AC) (2)	DESIGN STORM INTENSITY (1100) (3)	TIME OF CONCENTRATION (4)	RUNOFF COEFF. (C) (5)	Q100 (CFS) (6)
WS-5	2.04	4.24	20.52	0.60	5.18
WS-6	2.06	4.24	20.52	0.60	5.23
WS-7	4.35	3.66	28.56	0.60	9.55
WS-8	4.49	3.22	28.48	0.60	8.67
DA-13	1.11	5.36	10.00	0.60	3.57

WATERSHED AREA TO DISCHARGED TO EXISTING POND ON LOT 13, BLOCK 35. TSUB AMENDING PLAT					
100 YEAR STORM CALCULATIONS FOR WATERSHED AREAS					
DRAINAGE AREA NO. (1)	DRAINAGE AREA (AC) (2)	DESIGN STORM INTENSITY (1100) (3)	TIME OF CONCENTRATION (4)	RUNOFF COEFF. (C) (5)	Q100 (CFS) (6)
DA-14	0.13	5.32	10.32	0.95	0.66

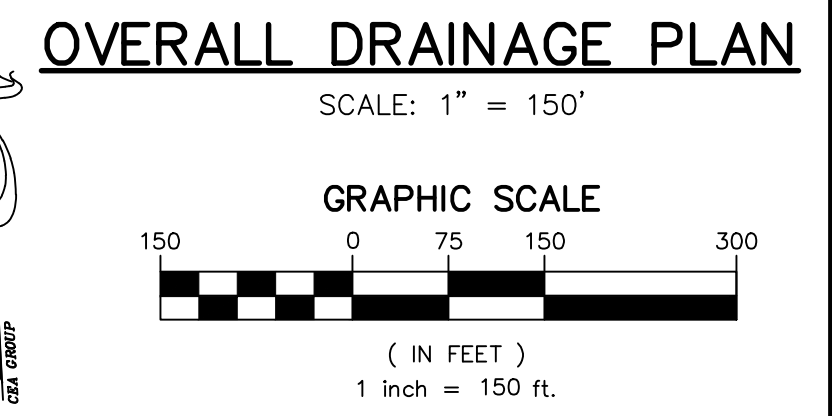
UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

- LEGEND:**
- DRAINAGE AREA BOUNDARY
 - DRAINAGE FLOW
 - HIGH POINT
 - LOW POINT
 - DROP INLET
 - STORM SEWER MANHOLE (SD)
 - RCP
 - HEADWALL STRUCTURE
 - DA-10** DRAINAGE AREA
 - WS-10** EXISTING DRAINAGE AREA
 - EXISTING DRAINAGE FLOW
 - EXISTING HIGH POINT
 - EXISTING LOW POINT
 - PROPOSED TEMPORARY DESILTING BASIN



Oscar Villalobos 09/22/2021
BY DATE



REFERENCES - BENCHMARKS
CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD., S08°43'31" A DISTANCE OF 487.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)

813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232
www.ceagroup.net
TEXAS REGISTERED ENGINEERING FIRM F-4564

ENGINEER'S SEAL
Jorge L. Azcarate
Professional Engineer
No. 10075
Exp. 9/13/21

SCALE: 1" = 150'
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A
DATE: SEPTEMBER 2021
DESIGN BY: G.J.M.
DRAWN BY: E.Z.
CHKD. BY: F.Z.
APPVD. BY: J.L.A.
JOB No.: 2000-228

PROJECT TITLE
**TRES SUEÑOS UNIT TWENTY TWO
REPLAT "A"
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**OVERALL DRAINAGE PLAN
(SHEET 2 OF 2)**

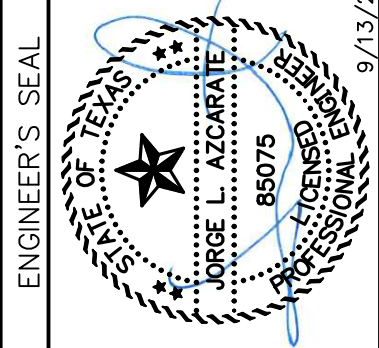
SHEET NO.
C4.2

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232
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TEXAS REGISTERED ENGINEERING FIRM F-4564

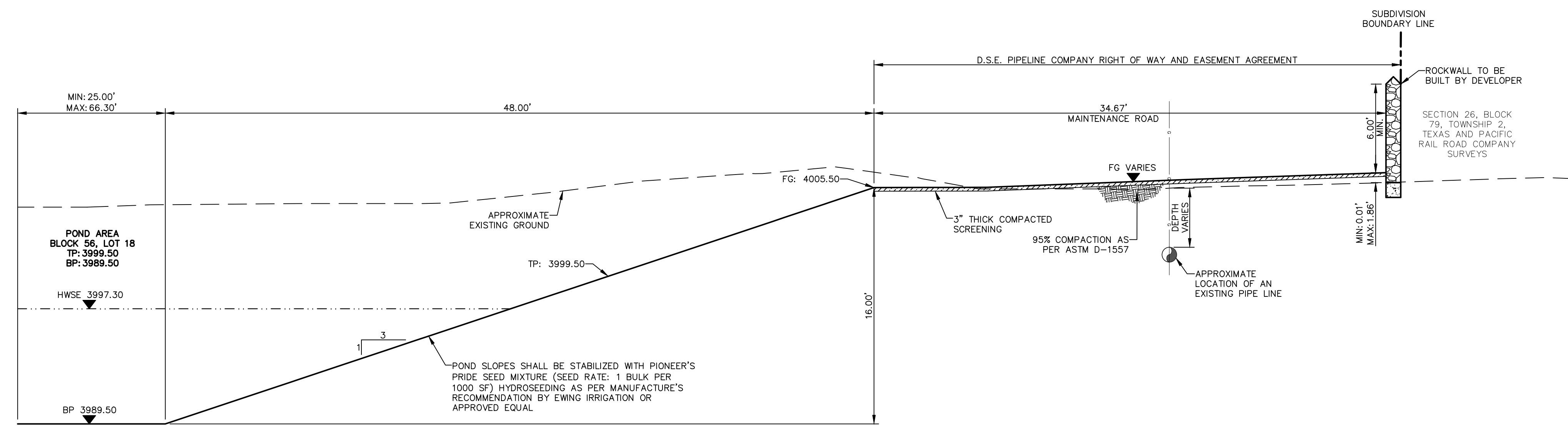


SCALE	
Horizontal:	1" = 5'
Vertical:	1" = 5'
Contour Interval:	N/A
DATE:	SEPTEMBER 2021
DESIGN BY:	G.J.M.
DRAWN BY:	E.Z.
CHKD. BY:	F.Z.
APPVD. BY:	J.L.A.
JOB No.:	2000-228

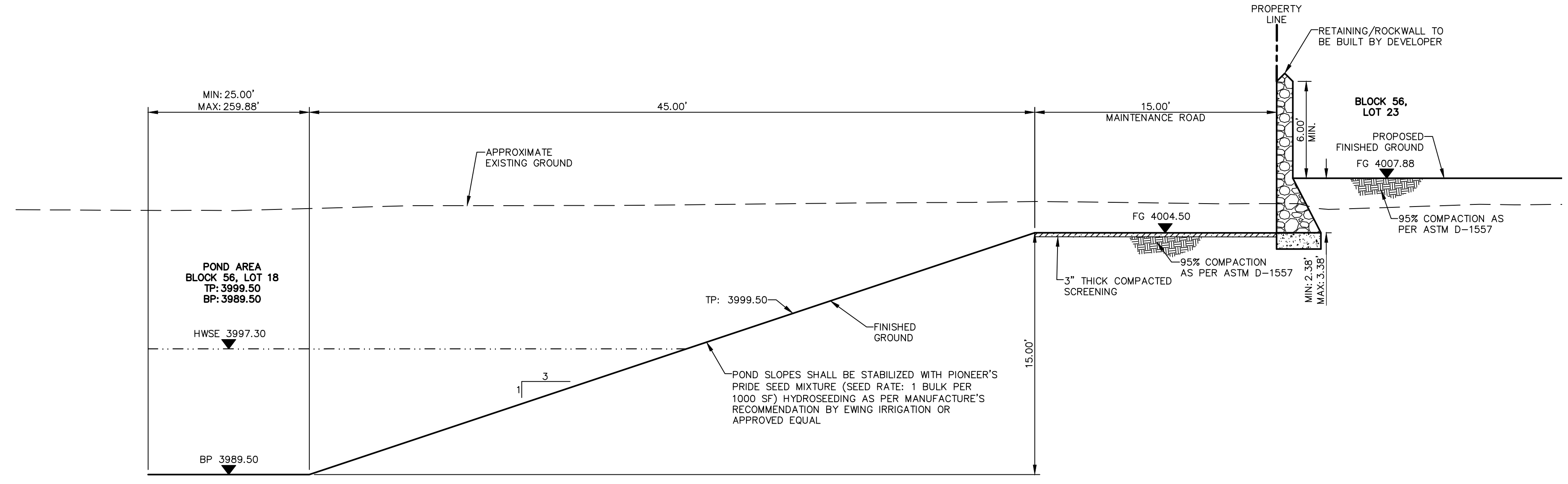
PROJECT TITLE
**TRES SUEÑOS UNIT TWENTY TWO
REPLAT "A"
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
GRADING SECTIONS
(SHEET 1 OF 3)
SHEET NO.

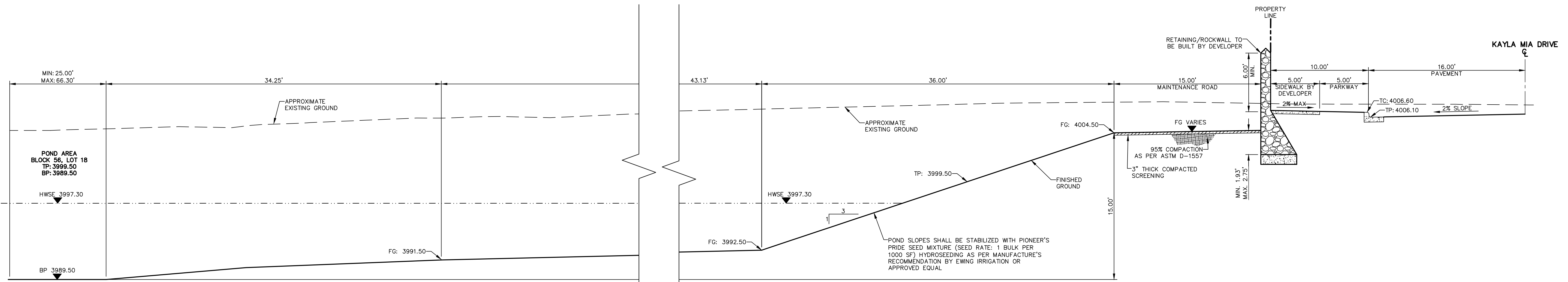
C5.1



SECTION
C5.1



SECTION
C5.1



SECTION
C5.1

GENERAL NOTES:
1. WHENEVER THE RETAINING HEIGHT OF A ROCKWALL/RETAINING WALL EXCEEDS FOUR (4') FEET OR MORE, THE DEVELOPER SHALL BUILD THE RETAINING PORTION OF THE WALL (INCLUDING NECESSARY REINFORCED CONCRETE FOOTING) TO HIGHEST FINISHED GROUND. THE BUILDER SHALL FINISH THE REMAINING OF THE STEM WALL. IF THE RETAINING HEIGHT DOES NOT EXCEED THE FOUR (4') FEET, THEN THE DEVELOPER MUST BUILD A TEMPORARY SLOPE AT 3(H): 1(V).

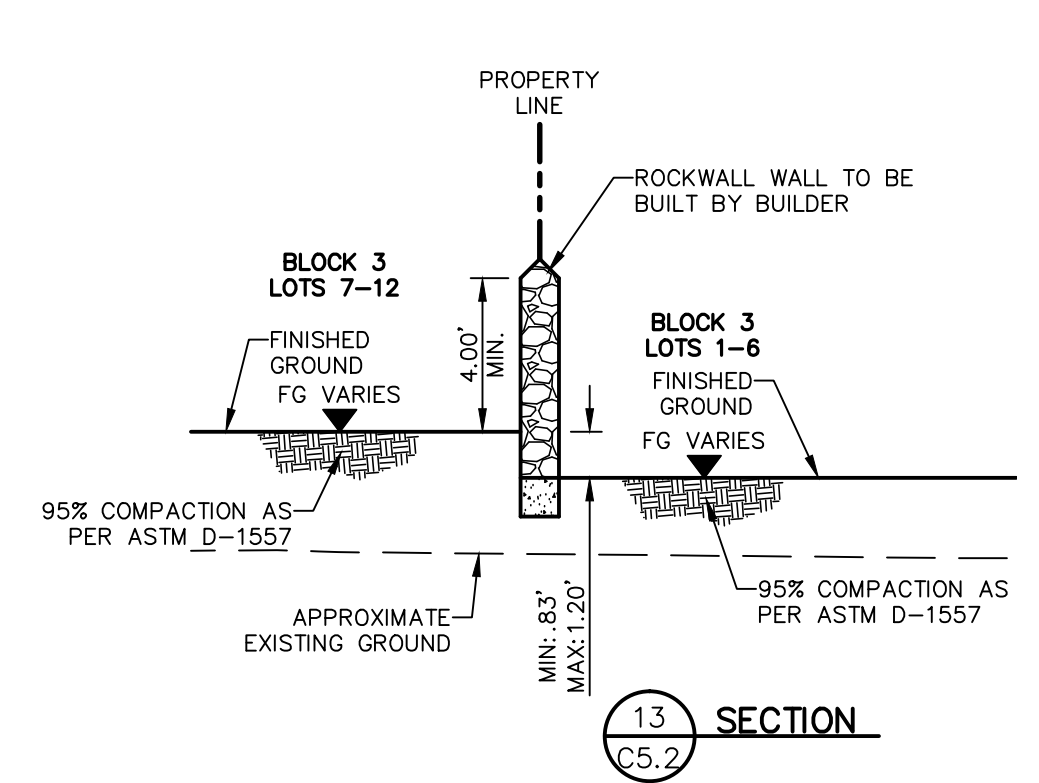
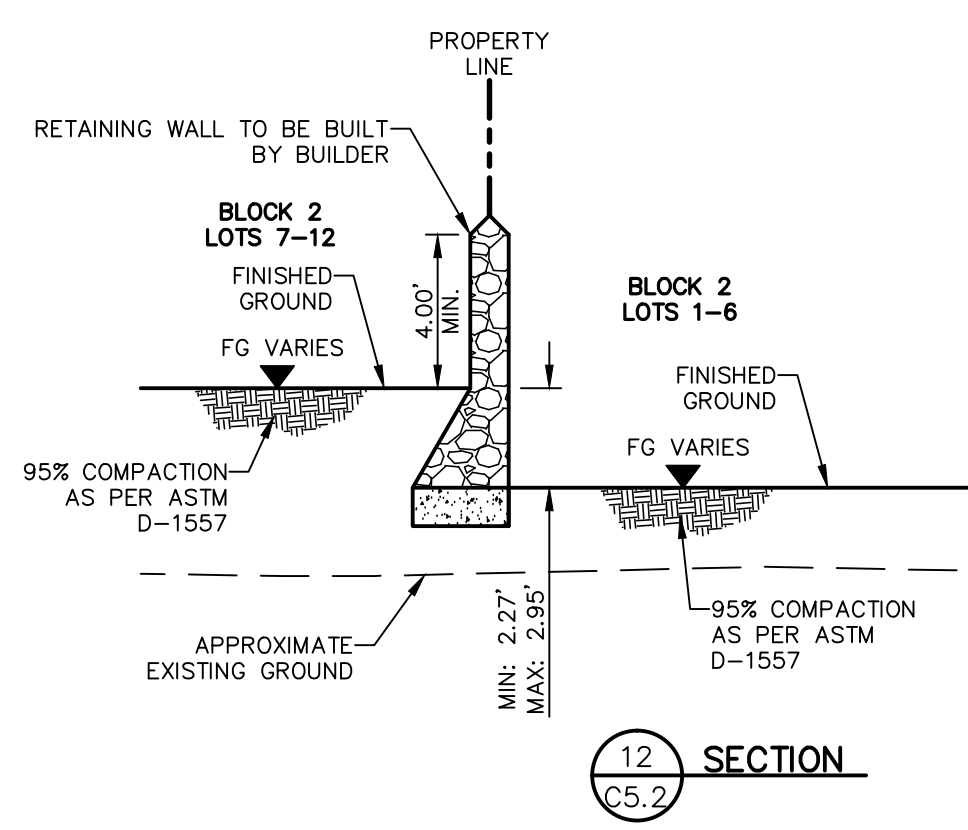
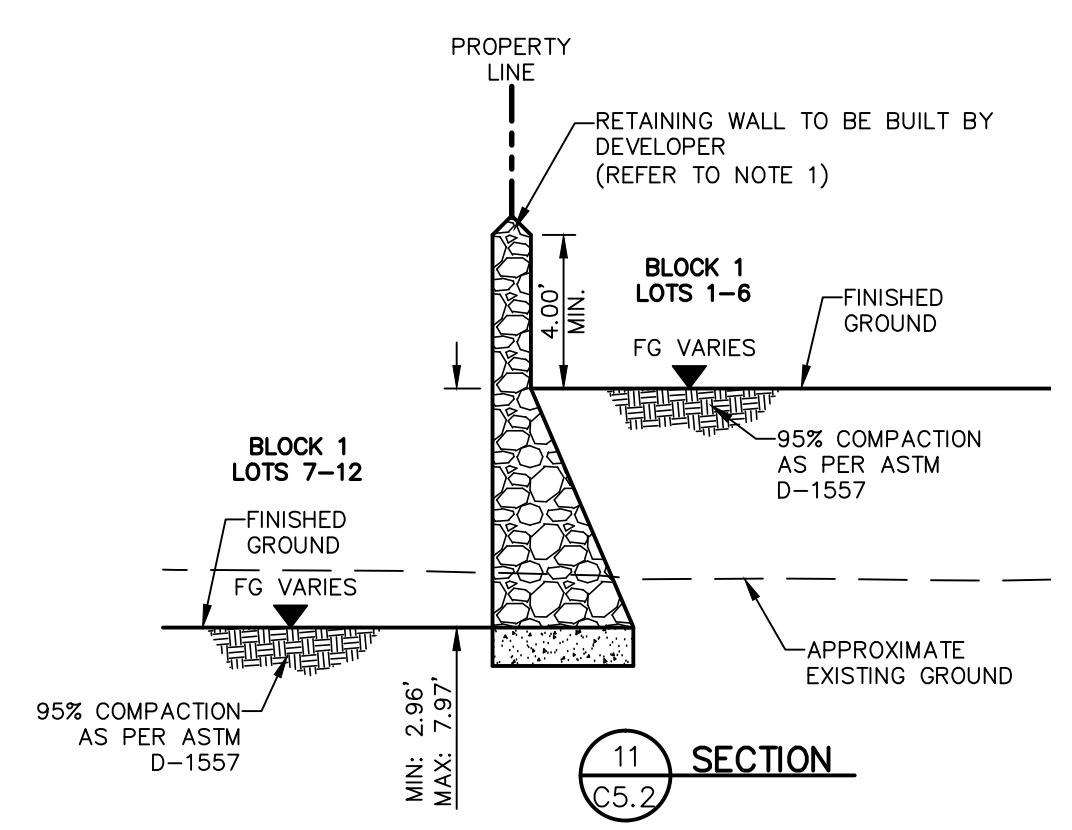
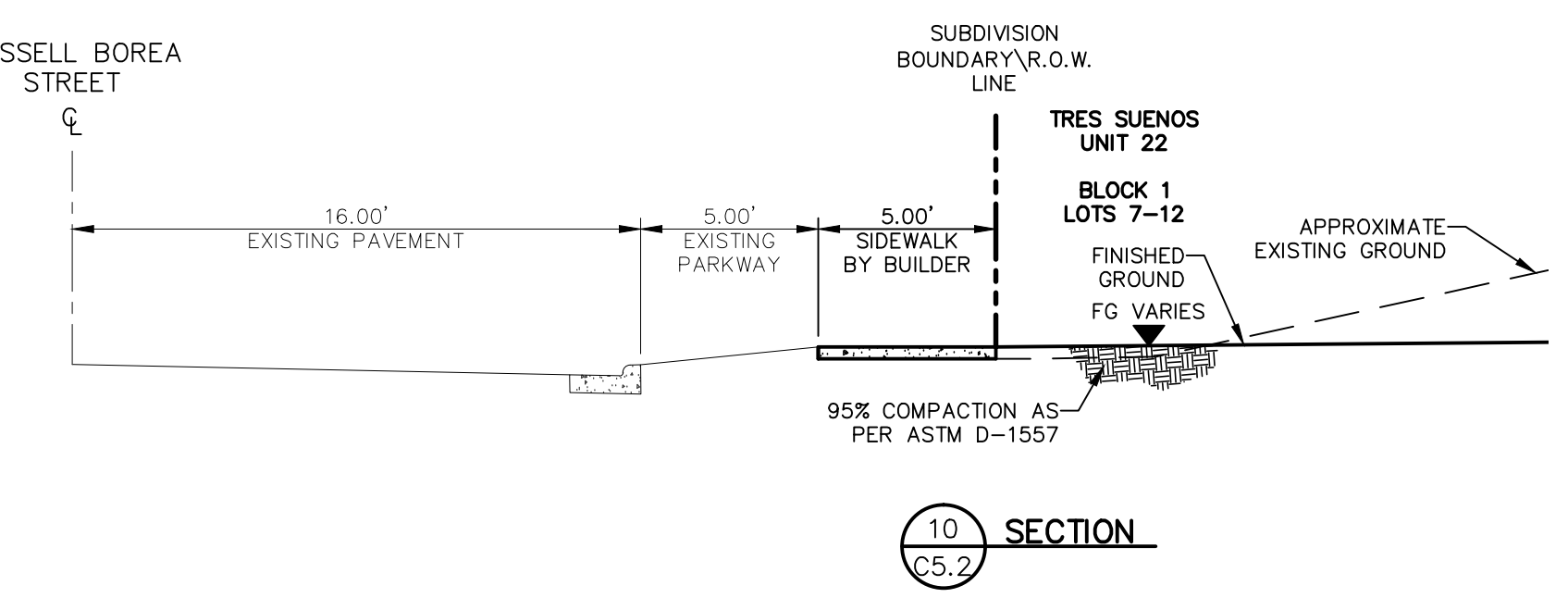
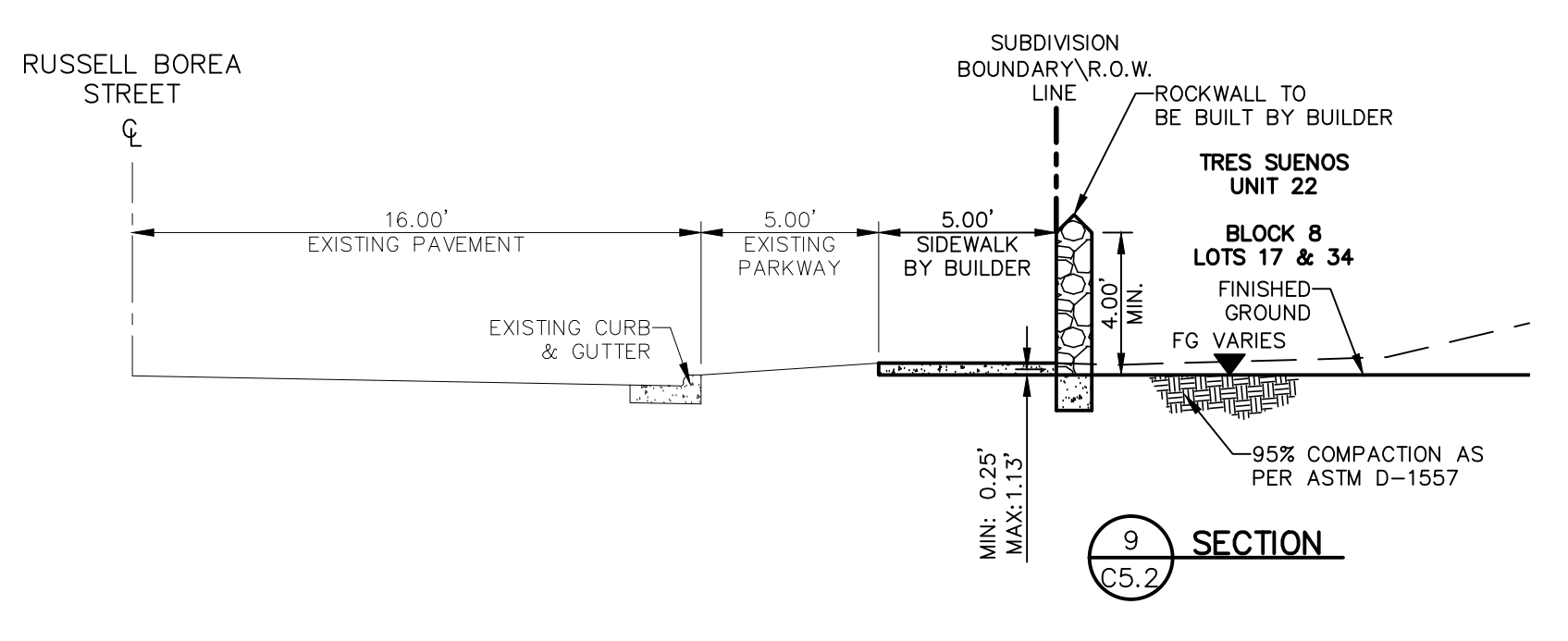
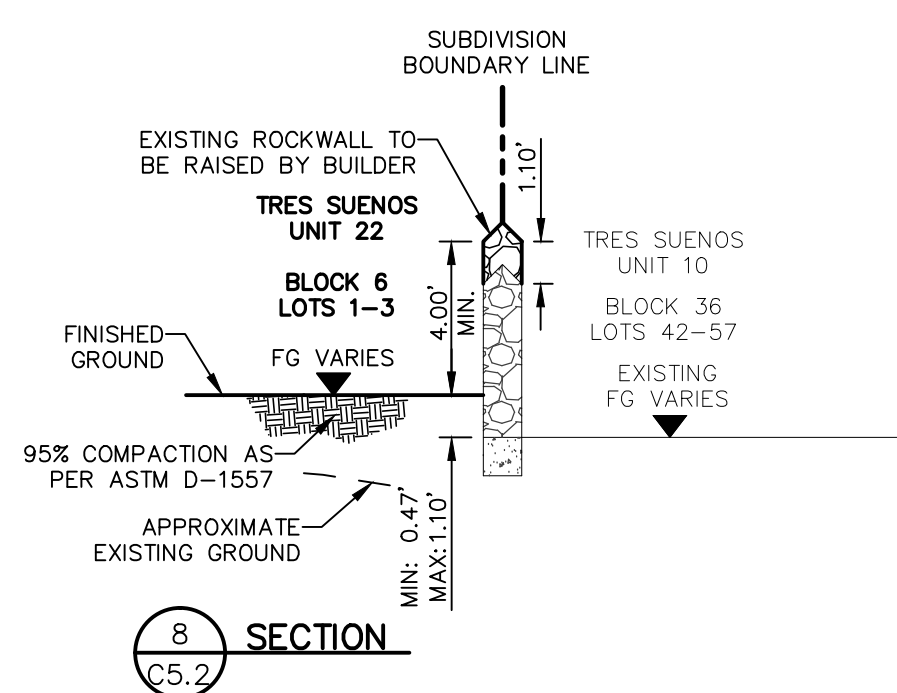
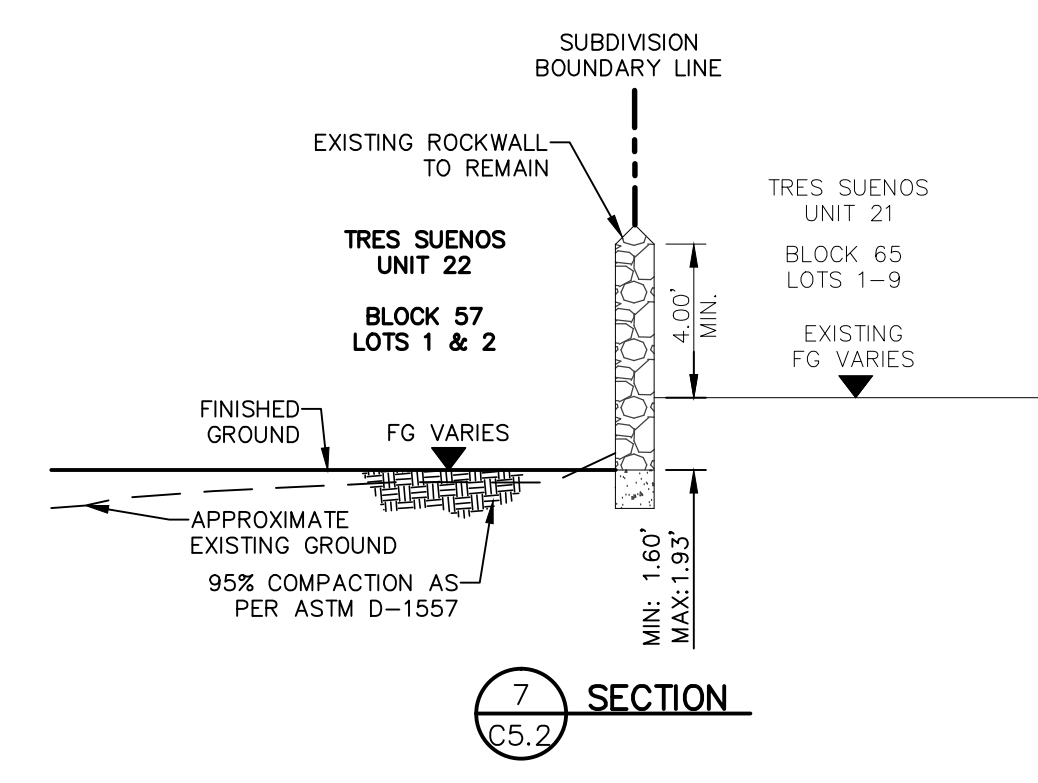
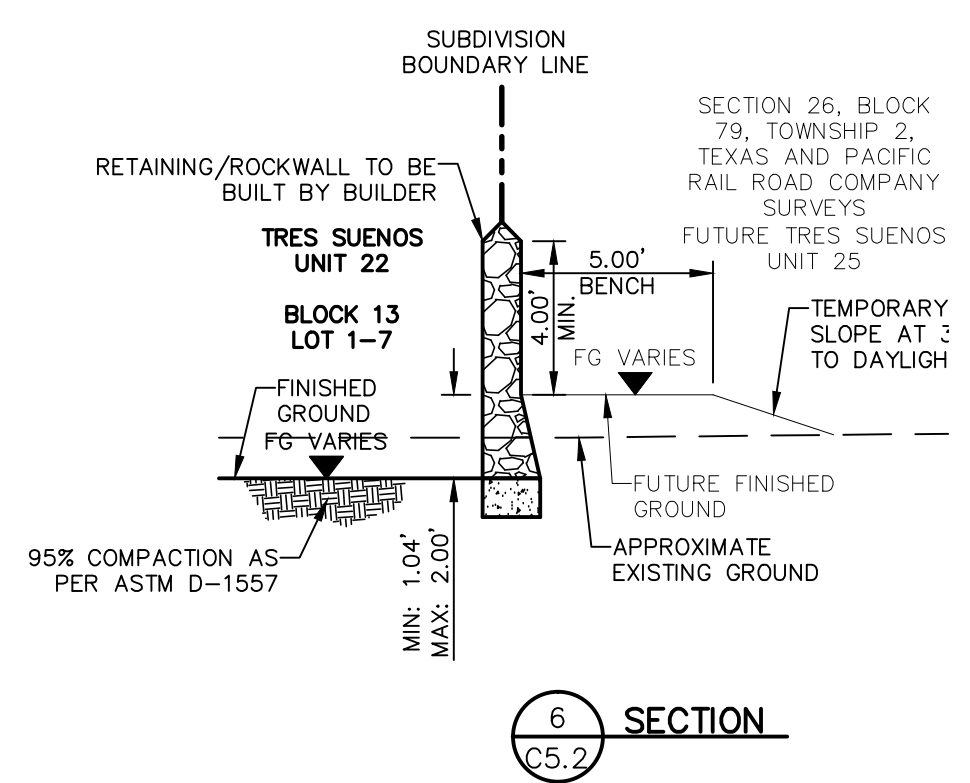
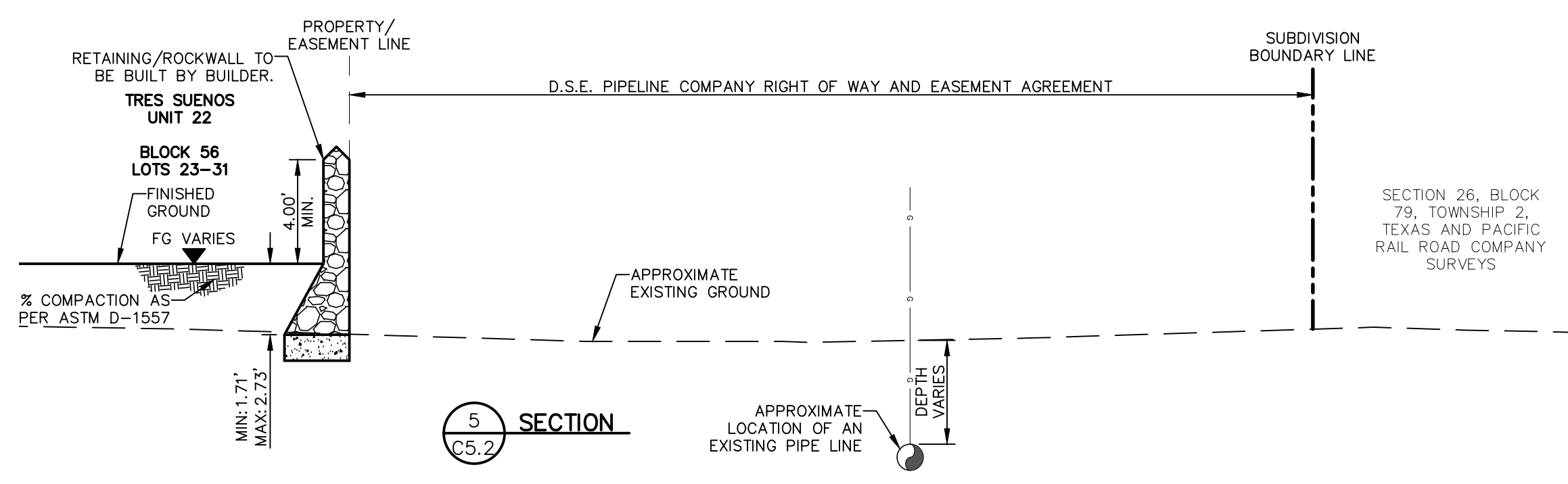
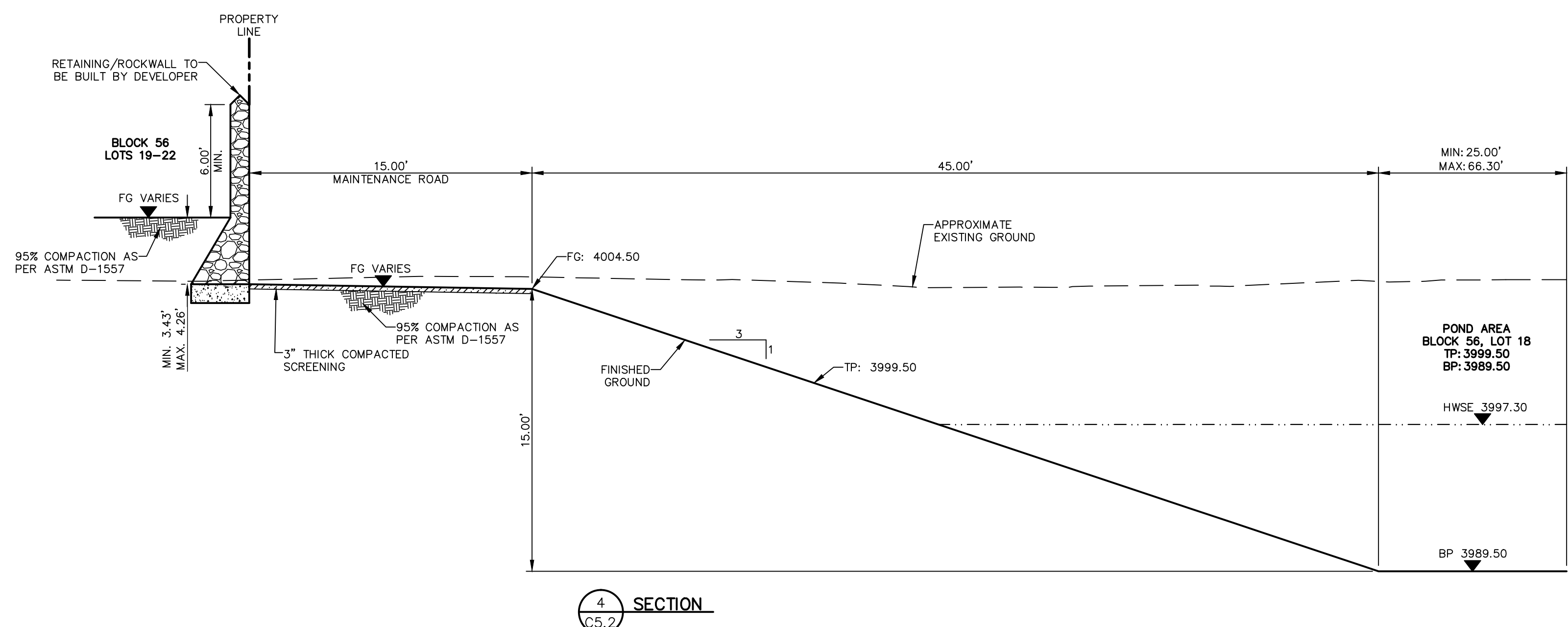


Oscar Villalobos
BY
DATE

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

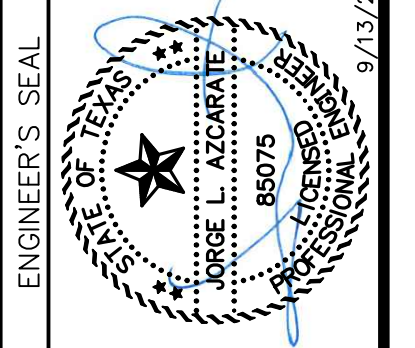
GENERAL NOTES:
1. WHENEVER THE RETAINING HEIGHT OF A ROCKWALL/RETAINING WALL EXCEEDS FOUR (4') FEET OR MORE, THE DEVELOPER SHALL BUILD THE RETAINING PORTION OF THE WALL (INCLUDING NECESSARY REINFORCED CONCRETE FOOTING) TO HIGHEST FINISHED GROUND. THE BUILDER SHALL FINISH THE REMAINING OF THE STEM WALL. IF THE RETAINING HEIGHT DOES NOT EXCEED THE FOUR (4') FEET, THEN THE DEVELOPER MUST BUILD A TEMPORARY SLOPE AT 3(H): 1(V).



Oscar Villalobos
BY DATE 09/22/2021

DATE	REVISIONS	BY

813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232
www.ceagroup.net
TEXAS REGISTERED ENGINEERING FIRM F-4564



SCALE	PROJECT TITLE
Horizontal: 1"=5'	TRES SUEÑOS UNIT TWENTY TWO REPLAT "A" SUBDIVISION IMPROVEMENTS
Vertical: 1"=5'	
Contour Interval: 1/4"	
DATE: SEPTEMBER 2021	
DESIGN BY: G.J.M.	
DRAWN BY: E.Z.	APPVD. BY: J.L.A.
CHKD. BY: F.Z.	JOB No.: 2000-228
APPVD. BY: J.L.A.	

TRES SUEÑOS UNIT TWENTY TWO
REPLAT "A"
SUBDIVISION IMPROVEMENTS

SHEET TITLE
GRADING SECTIONS
(SHEET 2 OF 3)
SHEET NO.

C5.2

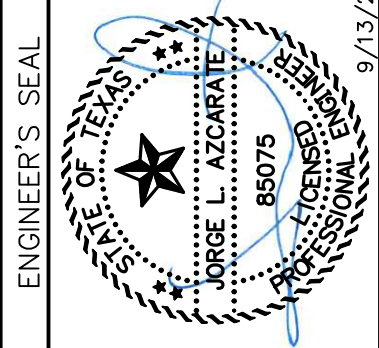
UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

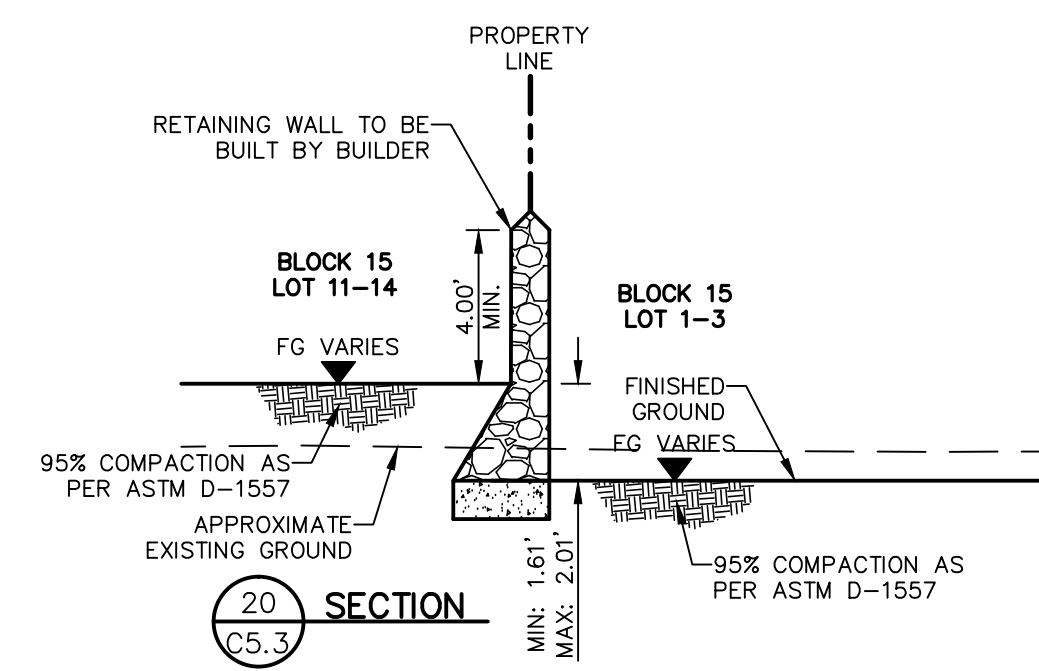
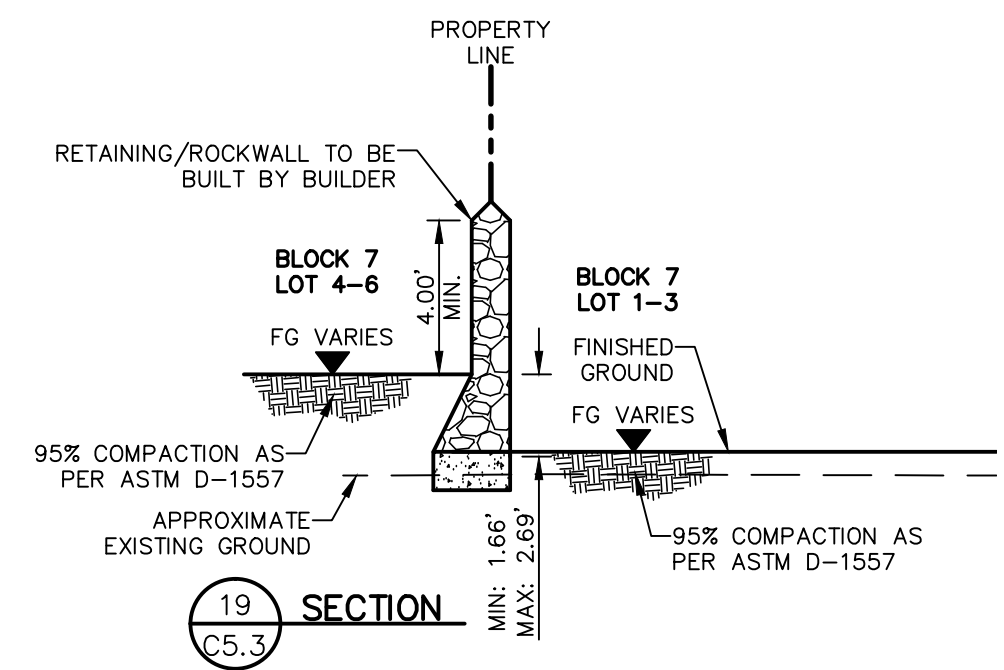
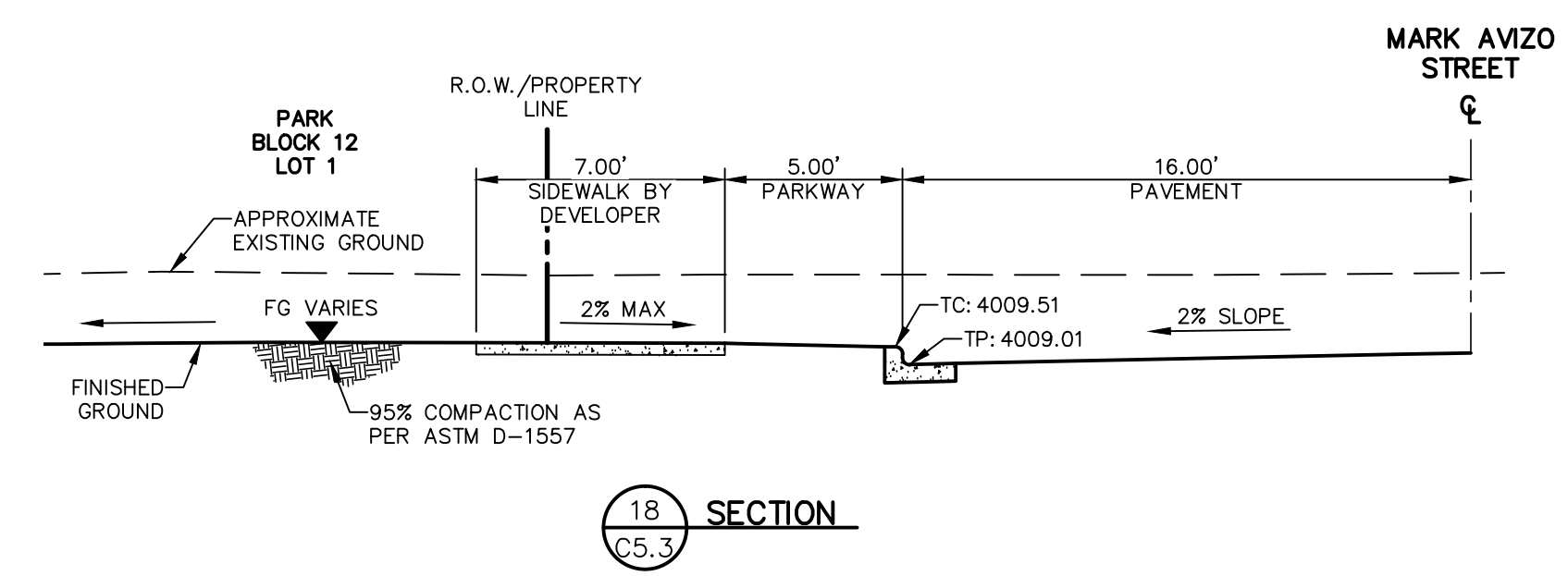
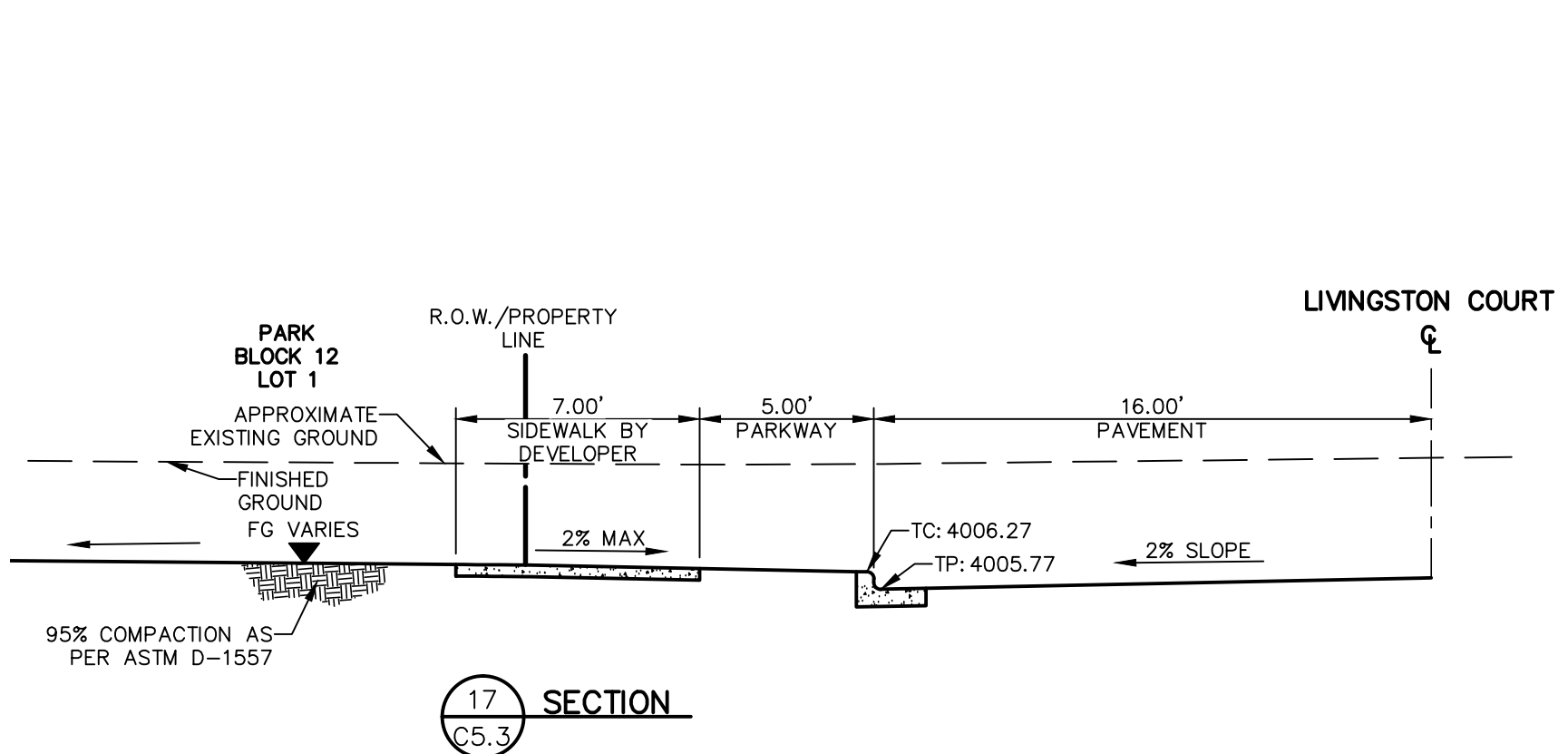
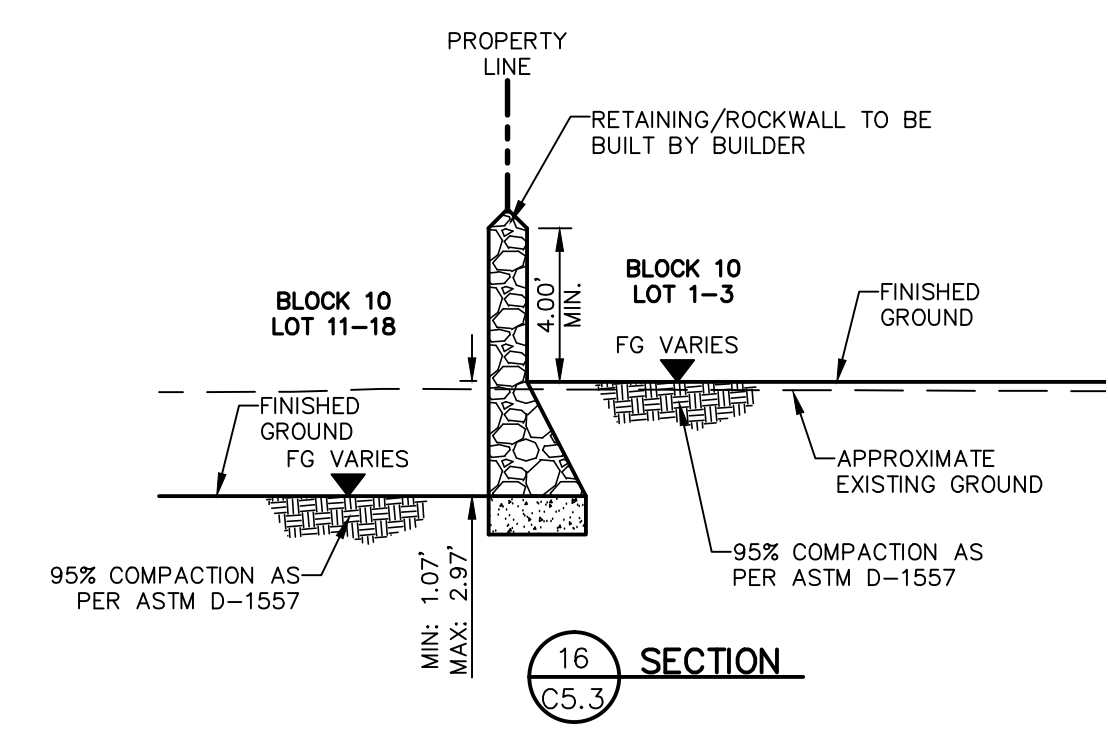
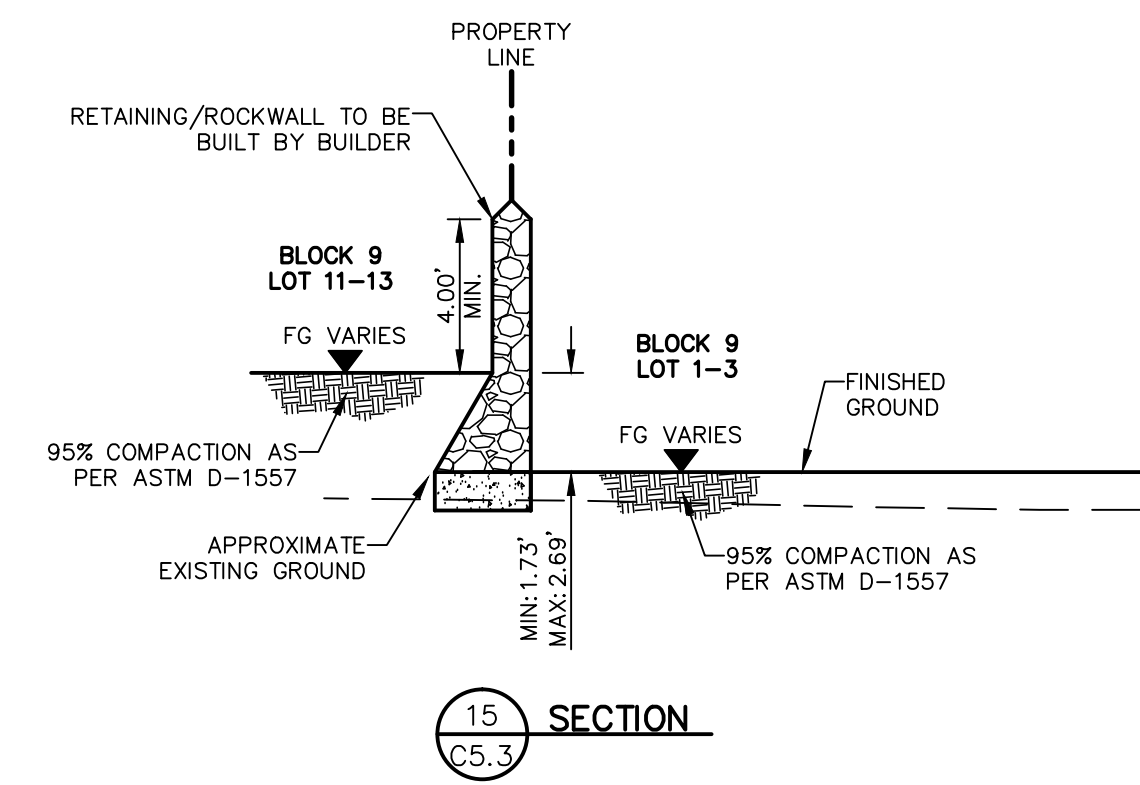
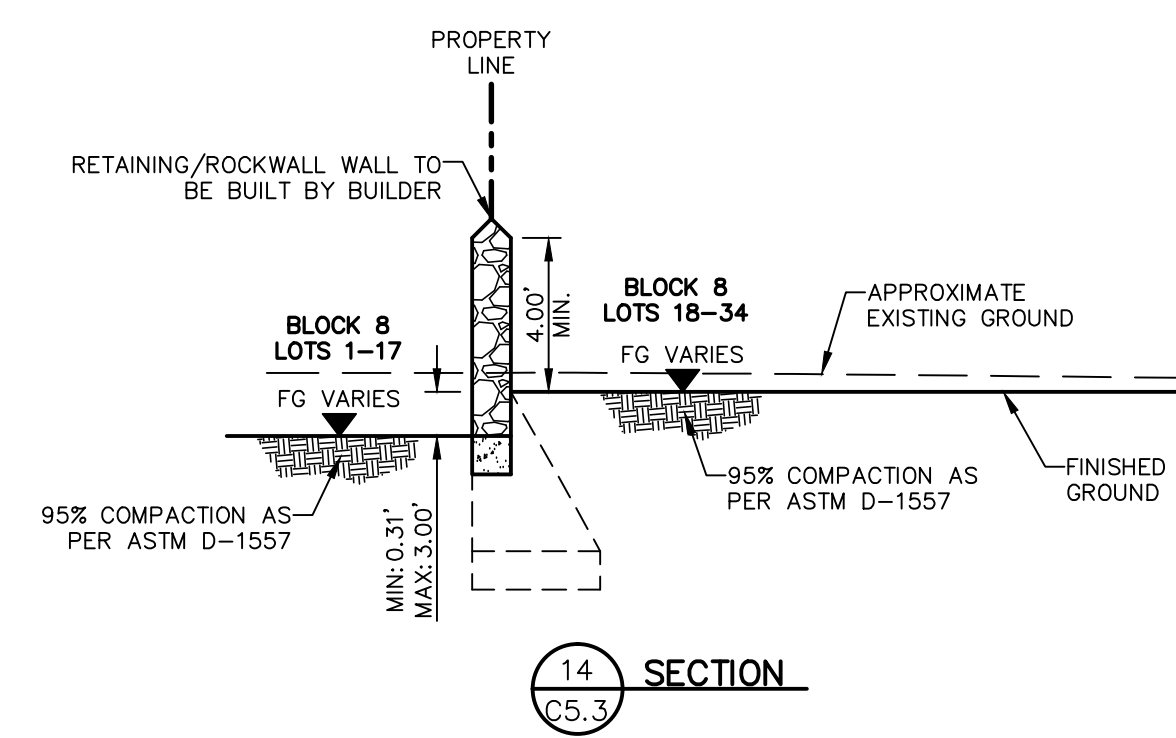
GENERAL NOTES:
1. WHENEVER THE RETAINING HEIGHT OF A ROCKWALL/RETAINING WALL EXCEEDS FOUR (4') FEET OR MORE, THE DEVELOPER SHALL BUILD THE RETAINING PORTION OF THE WALL (INCLUDING NECESSARY REINFORCED CONCRETE FOOTING) TO HIGHEST FINISHED GROUND. THE BUILDER SHALL FINISH THE REMAINING OF THE STEM WALL. IF THE RETAINING HEIGHT DOES NOT EXCEED THE FOUR (4') FEET, THEN THE DEVELOPER MUST BUILD A TEMPORARY SLOPE AT 3(H): 1(V).

DATE	REVISIONS	BY

813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232
www.ceagroup.net
TEXAS REGISTERED ENGINEERING FIRM F-4564



SCALE	
Horizontal:	1" = 5'
Vertical:	1" = 5'
Contour Interval:	N/A
DATE:	SEPTEMBER 2021
DESIGN BY:	G.J.M.
DRAWN BY:	E.Z.
CHKD. BY:	F.Z.
APPVD. BY:	J.L.A.
JOB No.:	2000-228



Oscar Villalobos 09/22/2021
BY DATE

PROJECT TITLE
TRES SUEÑOS UNIT TWENTY TWO REPLAT "A" SUBDIVISION IMPROVEMENTS

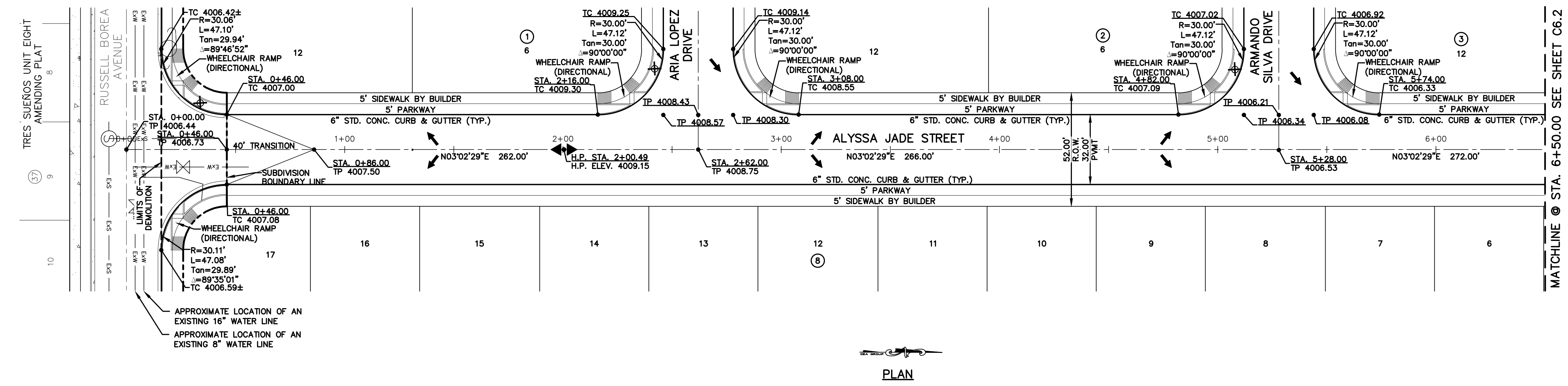
SHEET TITLE
GRADING SECTIONS
(SHEET 3 OF 3)
SHEET NO.

C5.3

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

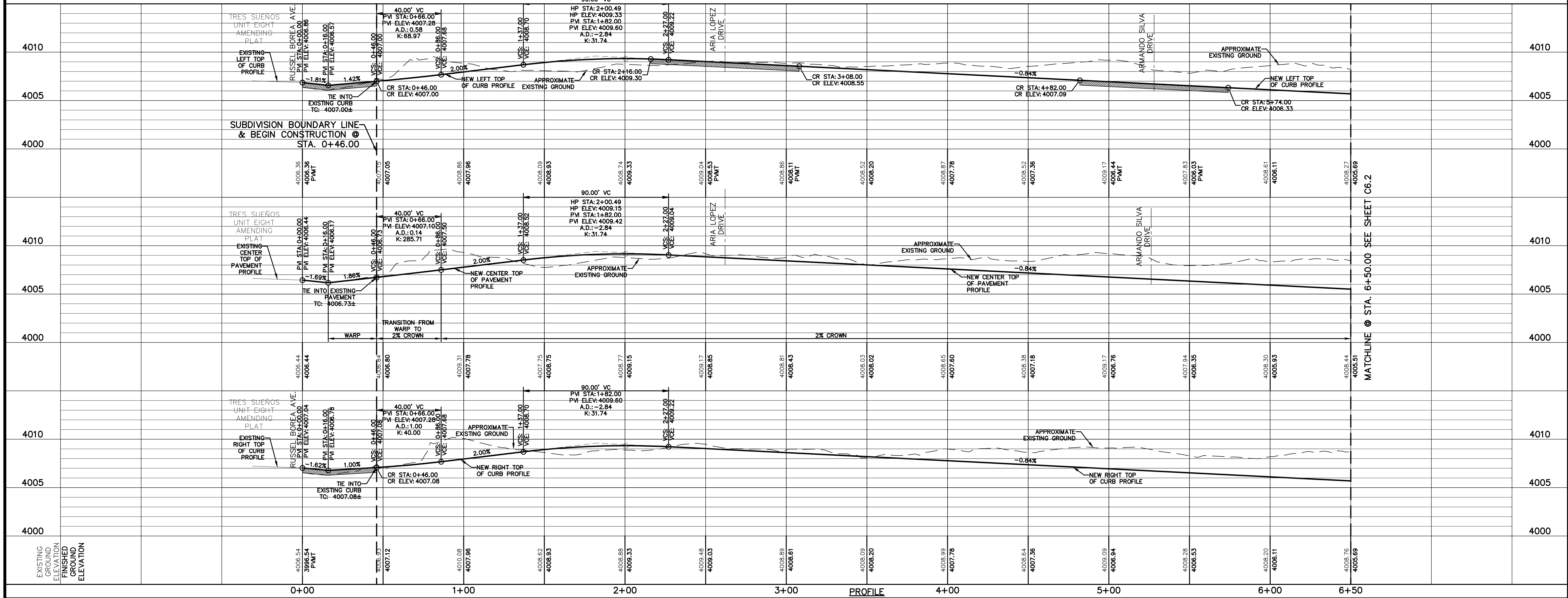
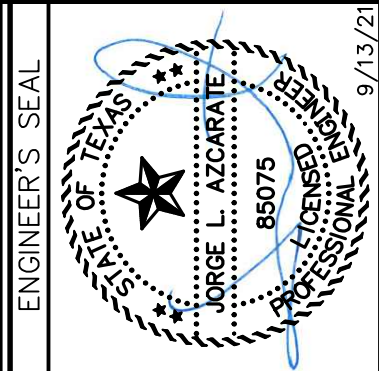


Oscar Villalobos 09/22/2021
BY DATE

LEGEND
DIRECTIONAL WHEELCHAIR RAMP BY BUILDER (TYP.)
PVI ELEVATIONS ARE SHOWN AT TOP OF CURB. REFER TO PLAN VIEW FOR TOP OF PAVEMENT ELEVATIONS.
PROPOSED STREET NAME SIGN & STOP SIGN

813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232
www.cegroup.net

CE GROUP
TEXAS REGISTERED ENGINEERING FIRM F-4564



SCALE: 1"=30'
Horizontal: 1"=5'
Vertical: Contour Interval: N/A
DATE: SEPTEMBER 2021
DESIGN BY: G.J.M.
DRAWN BY: C.E.D.
CHKD. BY: F.Z.
APPVD. BY: J.L.A.
JOB No.: 2000-228

PROJECT TITLE
TRES SUEÑOS UNIT TWENTY TWO REPLAT "A" SUBDIVISION IMPROVEMENTS

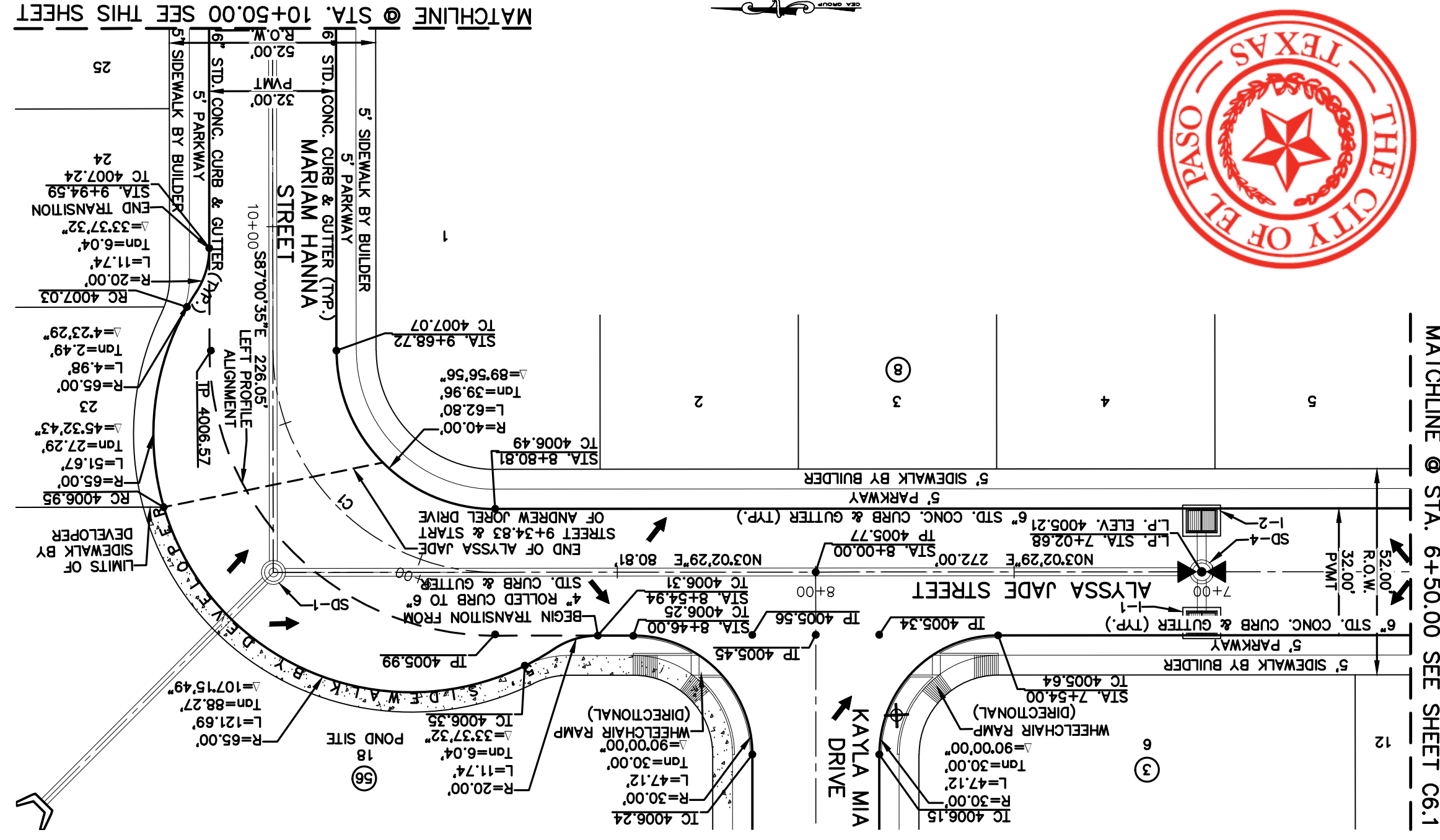
SHEET TITLE
ALYSSA JADE STREET PLAN & PROFILE FROM STA. 0+00.00 TO STA. 6+50.00

SHEET NO.
C6.1



Oscar Villalobos

DATE 09/22/2021



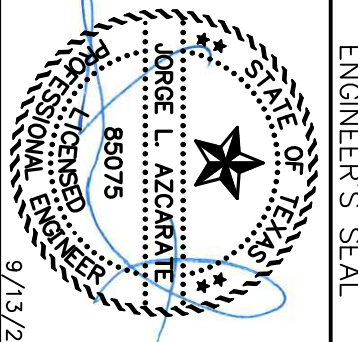
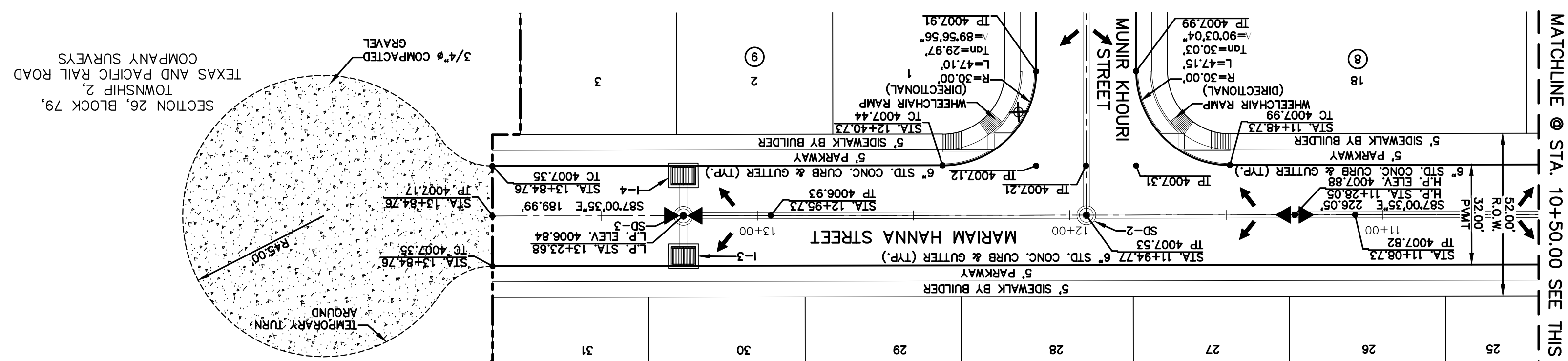
CI	CURVE RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	56.00'	87.91'	55.95'	79.16'	S48°00'57"W	88°56'56"

EL PASO ELECTRIC COMPANY	(915) 543-5220
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 850-7200
AT&T	(800) 545-8003
U.S. SPRINT TELECOM	(800) 852-3786
	(800) 521-0579

WARNING!
BEFORE YOU DIG
CALL 811

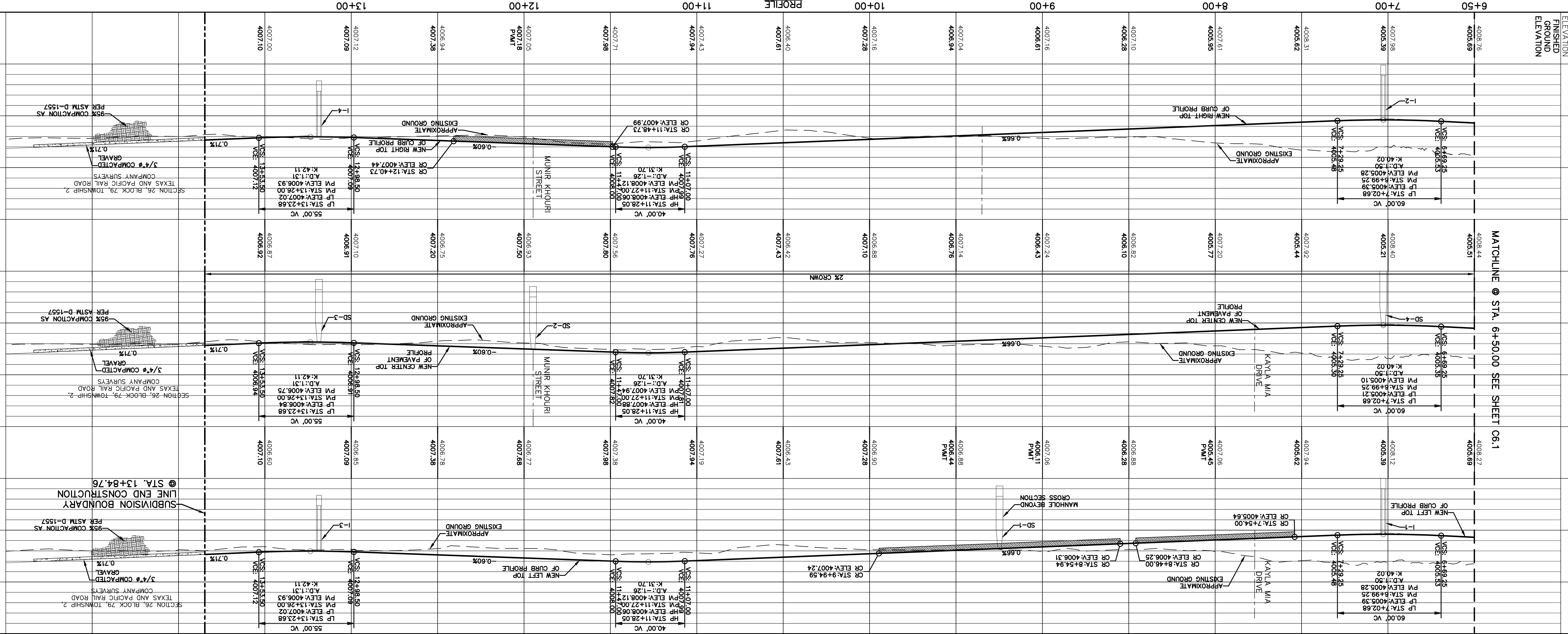
FOR FIELD LOCATING EXISTING UTILITIES

BOUNDARY LINE
SUBDIVISION



813 N. Kansas St.
Suite 300
El Paso, TX 79902
El Paso, TX 79902
915.544.5232
www.ceegroup.net

DATE	REVISIONS



PROJECT TITLE
TRES SUEÑOS UNIT TWENTY TWO
REPLAT "A"
SUBDIVISION IMPROVEMENTS

SCALE: 1" = 30'
Horizontal: 1" = 50'
Vertical: 1" = 5'

DATE: SEPTEMBER 2021
DESIGN BY: GJM
DRAWN BY: CJD
CHKD. BY: FZ
APPD. BY: JLA
JOB NO.: 2000-228

SHEET TITLE
ALYSSA JADE STREET
FROM STA. 6+50.00
TO STA. 9+34.83

SHEET TITLE
MARIAM HANNA STREET
FROM STA. 9+34.83
TO STA. 13+84.76

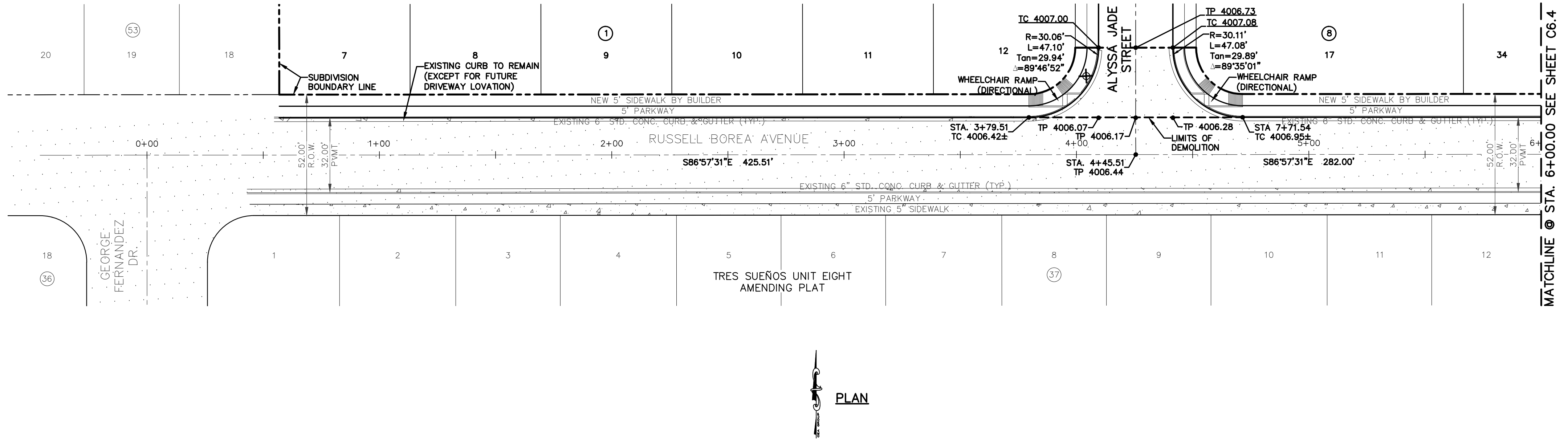
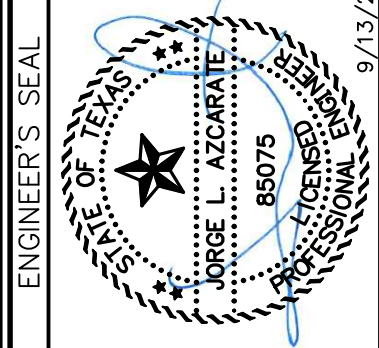
SHEET NO.
C6.2

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
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SBC	(800) 945-6005
AT&T	(800) 852-3786
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WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

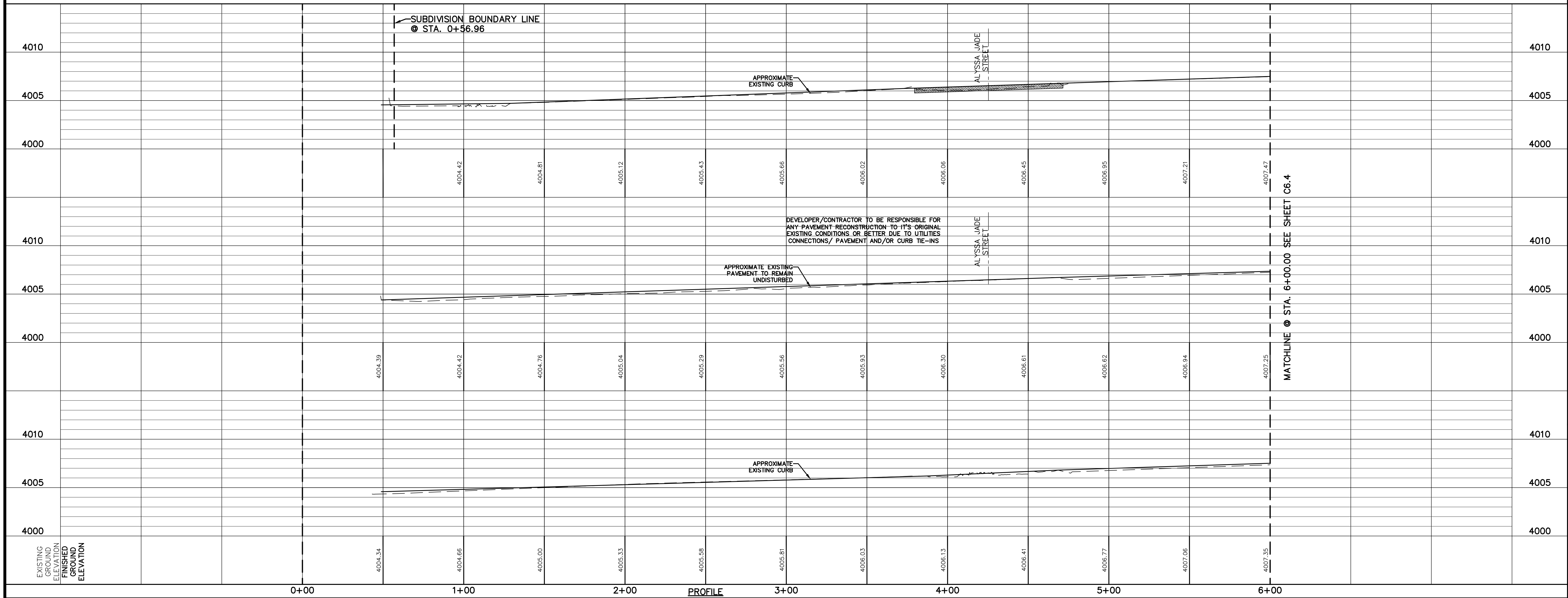
DATE	REVISIONS	BY

813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232
www.ceagroup.net
Texas Registered Engineering Firm F-4564



Oscar Villalobos
BY
DATE 09/22/2021

LEGEND
 DIRECTIONAL WHEELCHAIR RAMP BY BUILDER (TYP.)
 PROPOSED STREET NAME SIGN & STOP SIGN
 PVI ELEVATIONS ARE SHOWN AT TOP OF CURB. REFER TO PLAN VIEW FOR TOP OF PAVEMENT ELEVATIONS.

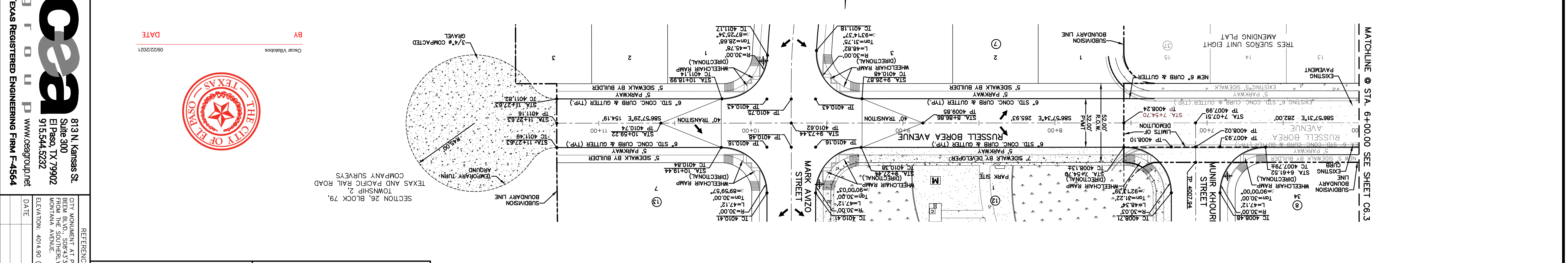
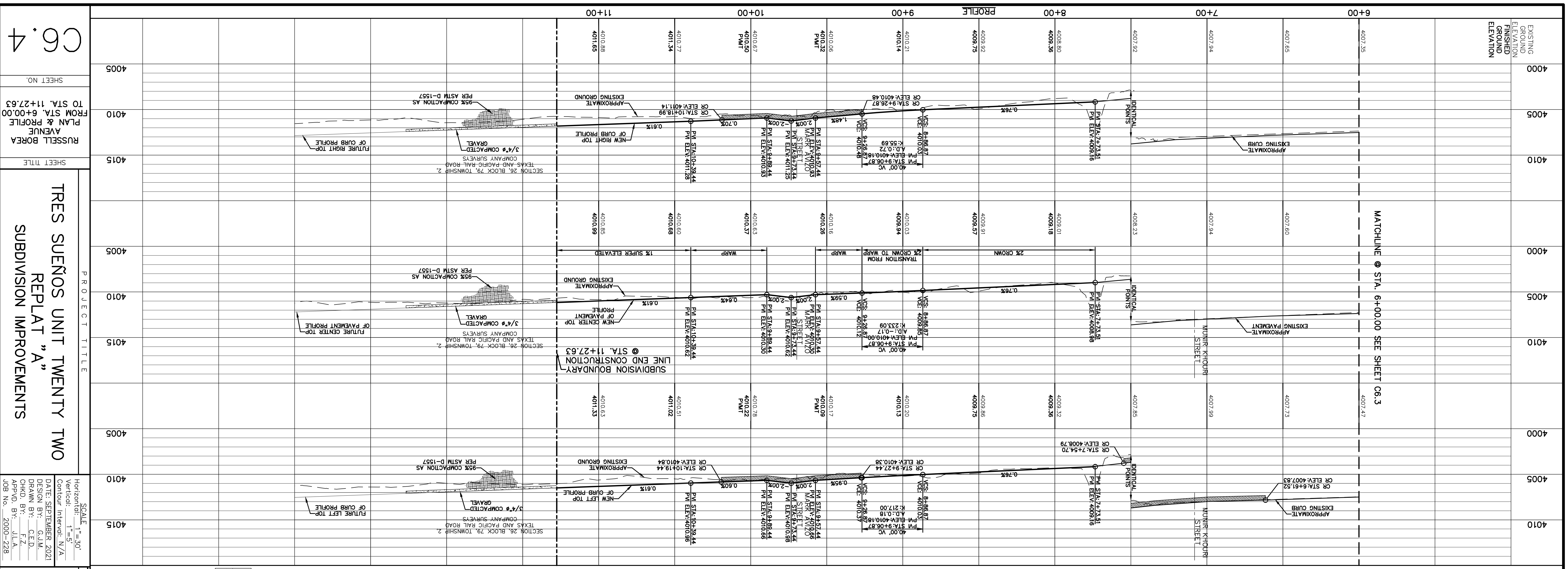


SCALE: 1"=30'
Horizontal: 1"=5'
Vertical: 1"=5'
Contour Interval: 1/4'
DATE: SEPTEMBER 2021
DESIGN BY: G.J.M.
DRAWN BY: C.E.D.
CHKD. BY: F.Z.
APPVD. BY: J.L.A.
JOB No.: 2000-228

PROJECT TITLE
TRES SUEÑOS UNIT TWENTY TWO REPLAT "A" SUBDIVISION IMPROVEMENTS

SHEET TITLE
RUSSELL BOREA AVENUE PLAN & PROFILE FROM STA. 0+00.00 TO STA. 6+00.00

SHEET NO.
C6.3



WARNING! BEFORE YOU DIG CALL 811

FOR FIELD LOCATING EXISTING UTILITIES

UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY (915) 543-5720
 EL PASO ENERGY CORPORATION (915) 496-5244
 EL PASO WATER UTILITIES (915) 594-5500
 MCI SURVEILLANCE (800) MCI-WORK
 TIME WARNER COMMUNICATIONS (915) 772-1123
 TEXAS GAS SERVICE (800) 545-6000
 SBC (800) 452-3786
 AT&T (800) 452-3786
 U.S. SPRINT TELECOMM (800) 521-0579

REFERENCES - BENCHMARKS
 CITY MONUMENT AT POINT OF CURVE CENTERLINE, RICH BEEM BLVD., S08°43'31" A DISTANCE OF 467.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONYANA AVENUE.
 ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)

DATE: _____ BY: _____

REVISIONS

813 N. Kansas St.
 Suite 300
 El Paso, TX 79902
 El Paso, TX 79902
 915.544.5292
 www.ceagroup.net

TEXAS REGISTERED ENGINEERING FIRM F-4564

CEAG

ENGINEER'S SEAL

DATE: SEPTEMBER 2021
 DESIGN BY: GJM
 DRAWN BY: C.E.D.
 CHKD. BY: F.Z.
 APPVD. BY: J.L.A.
 JOB NO.: 2000-228

SCALE: 1" = 30'
 Horizontal: 1" = 50'
 Vertical: 1" = 5'
 Contour Interval: N/A

TRES SUENOS UNIT TWENTY TWO
 REPLAT "A"
 SUBDIVISION IMPROVEMENTS

PROJECT TITLE

SHEET TITLE

RUSSELL BOREA AVENUE
 PLAN & PROFILE
 FROM STA. 6+00.00
 TO STA. 11+27.63

SHEET NO.

C6.4

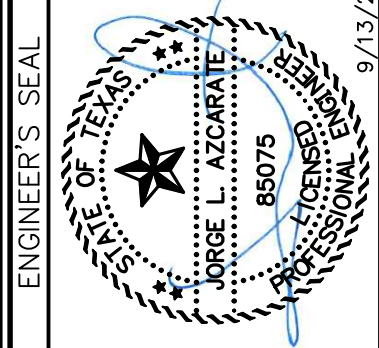
UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232
www.ceagroup.net

CEA GROUP
TEXAS REGISTERED ENGINEERING FIRM F-4564



SCALE: 1"=30'
Horizontal: 1"=5'
Vertical: 1"=5'
Contour Interval: 1' / A
DATE: SEPTEMBER 2021
DESIGN BY: G.J.M.
DRAWN BY: C.E.D.
CHKD. BY: F.Z.
APPVD. BY: J.L.A.
JOB No.: 2000-228

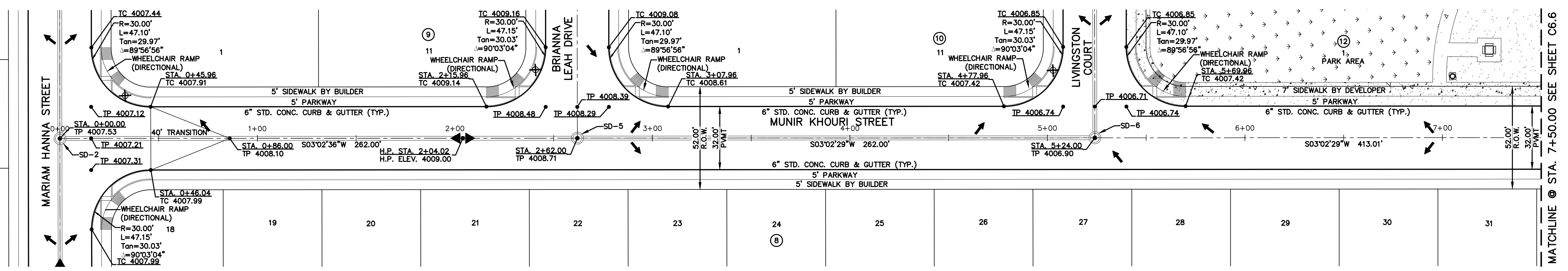
PROJECT TITLE
**TRES SUEÑOS UNIT TWENTY TWO
REPLAT "A"
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**MUNIR KHOURI
STREET
PLAN & PROFILE
FROM STA. 0+00.00
TO STA. 7+50.00**

SHEET NO.
C6.5



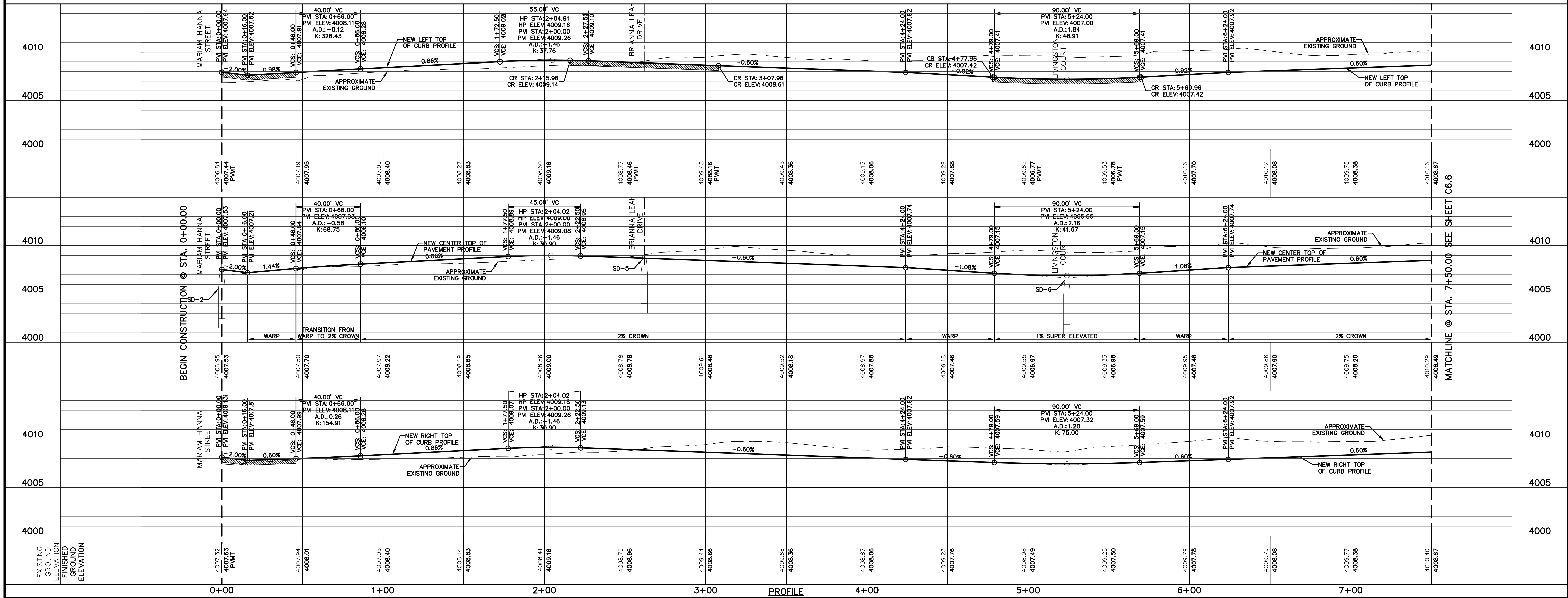
Oscar Villalobos 09/22/2021
BY DATE



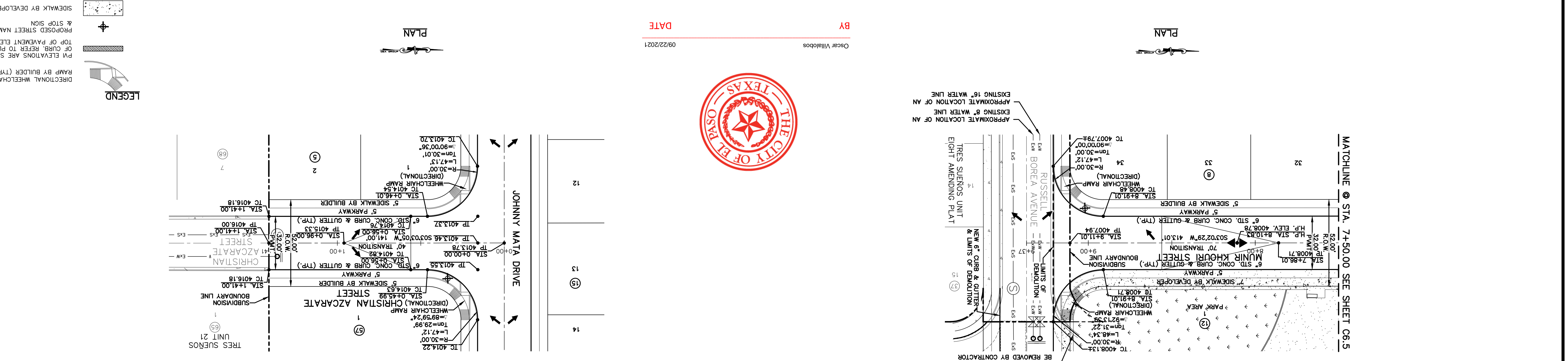
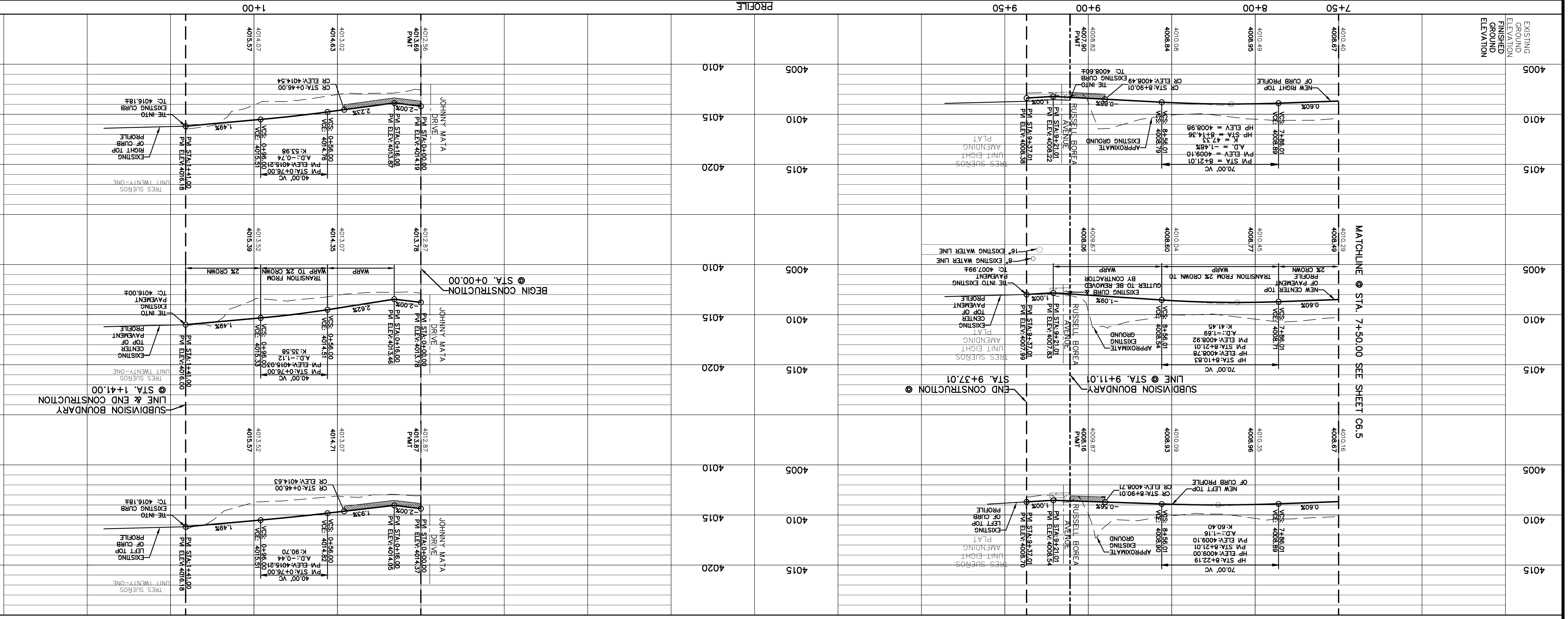
PLAN

LEGEND

- DIRECTIONAL WHEELCHAIR RAMP BY BUILDER (TYP.)
- PVI ELEVATIONS ARE SHOWN AT TOP OF CURB. REFER TO PLAN VIEW FOR TOP OF PAVEMENT ELEVATIONS.
- PROPOSED STREET NAME SIGN & STOP SIGN
- SIDEWALK BY DEVELOPER



C6.5



DATE	REVISIONS	BY

UTILITY LOCATOR SERVICES	CONTACT INFORMATION
EL PASO ELECTRIC COMPANY	(915) 543-5220
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(800) 545-6003
AT&T	(800) 452-3786
U.S. SPRINT TELECOMM	(800) 521-0579

PROJECT TITLE
TRES SUENOS UNIT TWENTY TWO
REPLAT "A"
SUBDIVISION IMPROVEMENTS

SCALE
 Horizontal: 1" = 30'
 Vertical: 1" = 5'

DATE: SEPTEMBER 2021
DESIGN BY: G.J.M.
DRAWN BY: C.E.D.
CHKD. BY: F.Z.
APP'D. BY: J.L.A.
JOB NO.: 2000-228

ENGINEER'S SEAL
 OSCAR VILLALBOS
 LICENSE NO. 85075
 EXPIRES 9/13/21

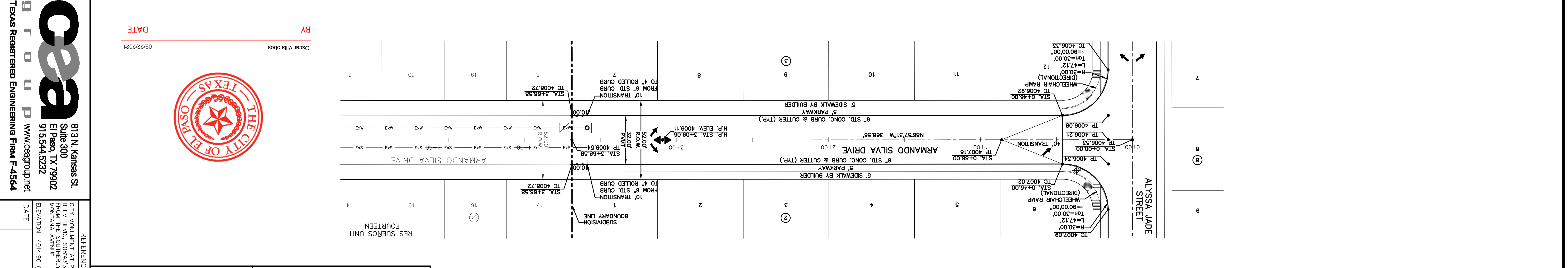
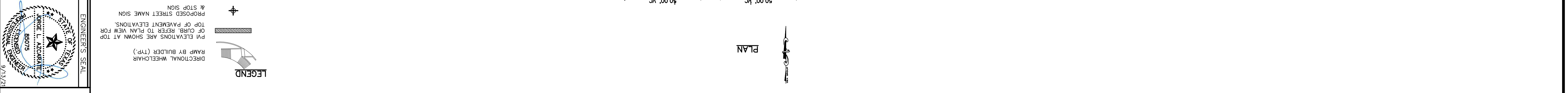
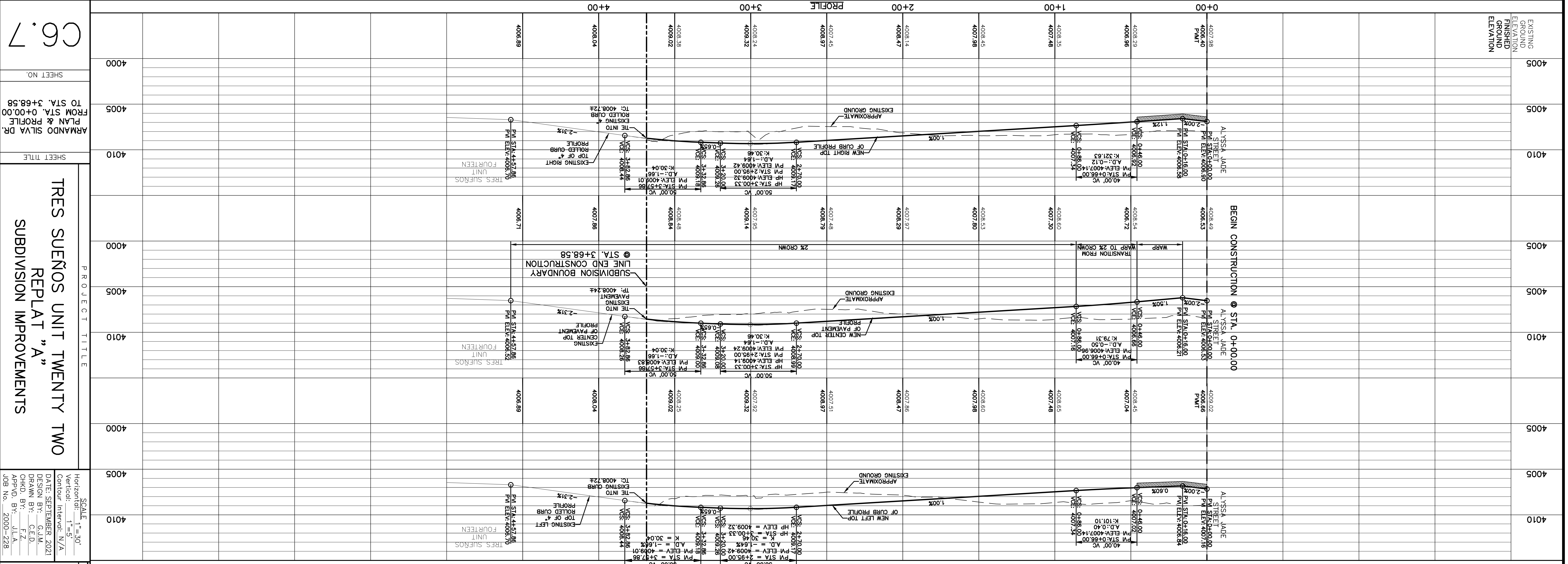
THE CITY OF EL PASO, TEXAS

CE&E
 813 N. Kansas St.
 Suite 300
 El Paso, TX 79902
 915.544.5232
 www.ceandgroup.net

TEXAS REGISTERED ENGINEERING FIRM F-4564

REFERENCES - BENCHMARKS
 CITY MONUMENT AT POINT OF CURVE CENTERLINE, RICH BEEM BLVD., S08°43'31" A DISTANCE OF 467.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
 ELEVATION: 4014.90 (NAVD 88) (4905.40 CITY DATUM)

WARNING!
BEFORE YOU DIG
CALL 811
 FOR FIELD LOCATING EXISTING UTILITIES



UTILITY LOCATOR SERVICES

FOR FIELD LOCATING EXISTING UTILITIES

CALL 811 BEFORE YOU DIG!

EL PASO ELECTRIC COMPANY (915) 543-5220
 EL PASO ENERGY CORPORATION (915) 496-5244
 EL PASO WATER UTILITIES (915) 594-5500
 MCI SURVEILLANCE (800) MCI-WORK
 TIME WARNER COMMUNICATIONS (915) 772-1123
 TEXAS GAS SERVICE (800) 545-6003
 AT&T (800) 452-3786
 U.S. SPRINT TELECOMM (800) 521-0579

REFERENCES - BENCHMARKS

CITY MONUMENT AT POINT OF CURVE CENTERLINE, RICH BEEM BLVD., S08+33.31" A DISTANCE OF 467.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
 ELEVATION: 4014.90 (NAVD 88) (4905.40 CITY DATUM)

DATE: _____ BY: _____

REVISIONS:

813 N. Kansas St.
 Suite 300
 El Paso, TX 79902
 El Paso, TX 79902
 915.544.5232
 www.ceagroup.net
 TEXAS REGISTERED ENGINEERING FIRM F-4564

ENGINEER'S SEAL

DATE: 09/22/2021 BY: Oscar Villalobos

LEGEND

- DIRECTIONAL WHEELCHAIR RAMP BY BUILDER (TYP.)
- PM ELEVATIONS ARE SHOWN AT TOP OF CURB. REFER TO PLAN VIEW FOR TOP OF PAVEMENT ELEVATIONS.
- PROPOSED STREET NAME SIGN & STOP SIGN

SCALE: 1" = 30'

Horizontal: 1" = 30'
 Vertical: 1" = 5'
 Contour Interval: N/A

DATE: SEPTEMBER 2021
 DESIGN BY: GJM
 DRAWN BY: CLEJ
 CHKD. BY: FZ
 APPVD. BY: JLA
 JOB NO.: 2000-228

PROJECT TITLE

TRES SUENOS UNIT TWENTY TWO REPLAT "A" SUBDIVISION IMPROVEMENTS

SHEET TITLE

ARMANDO SILVA DR. FROM STA. 0+00.00 TO STA. 3+68.58

SHEET NO.

CG. 7

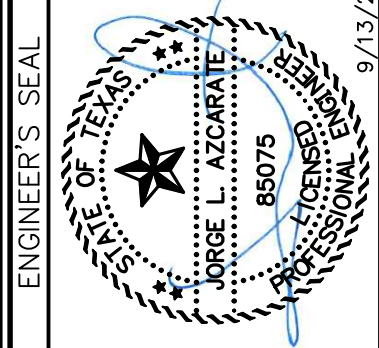
UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232
www.ceagroup.net

CEA GROUP
TEXAS REGISTERED ENGINEERING FIRM F-4564



Horizontal:	1" = 30'
Vertical:	1" = 5'
Contour Interval:	N/A
DATE:	SEPTEMBER 2021
DESIGN BY:	G.J.M.
DRAWN BY:	C.E.D.
CHKD. BY:	F.Z.
APPVD. BY:	J.L.A.
JOB No.:	2000-228

PROJECT TITLE
**TRES SUEÑOS UNIT TWENTY TWO
REPLAT "A"
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

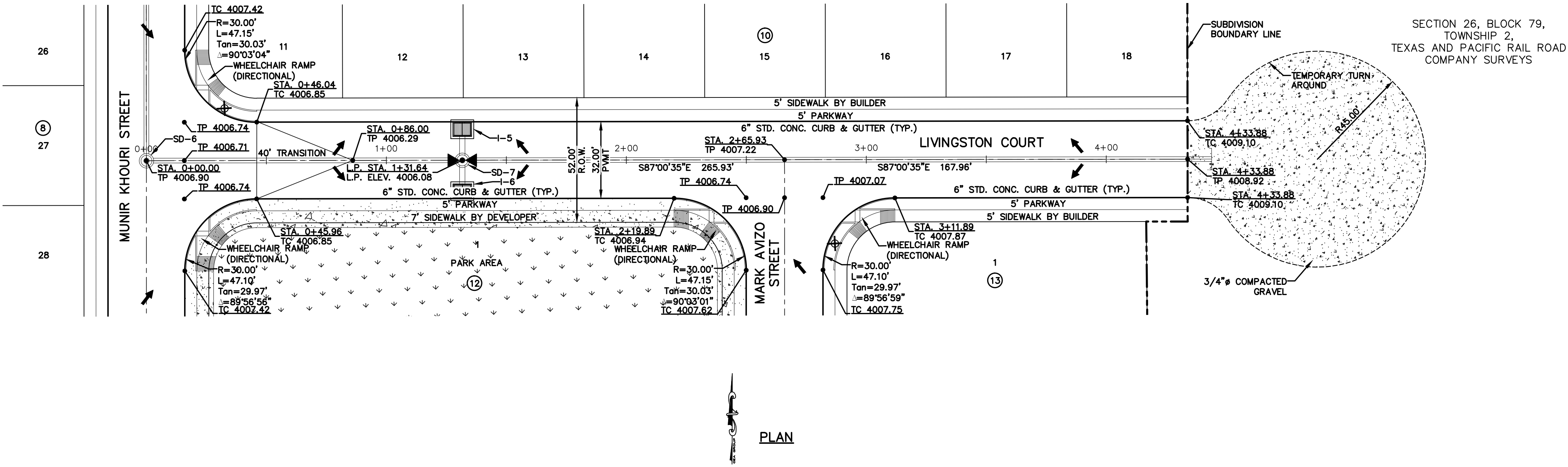
LIVINGSTON COURT
PLAN & PROFILE
FROM STA. 0+00.00
TO STA. 4+33.88

SHEET NO.

C6.8

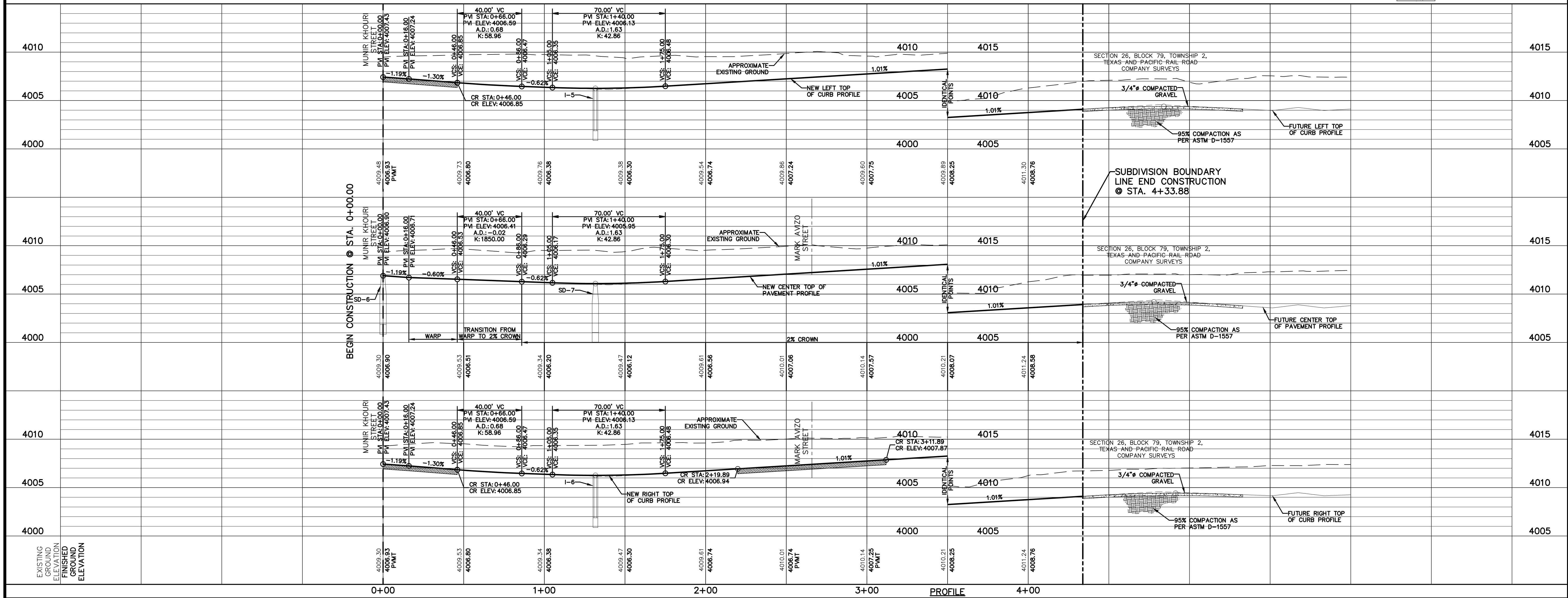


Oscar Villalobos
BY DATE

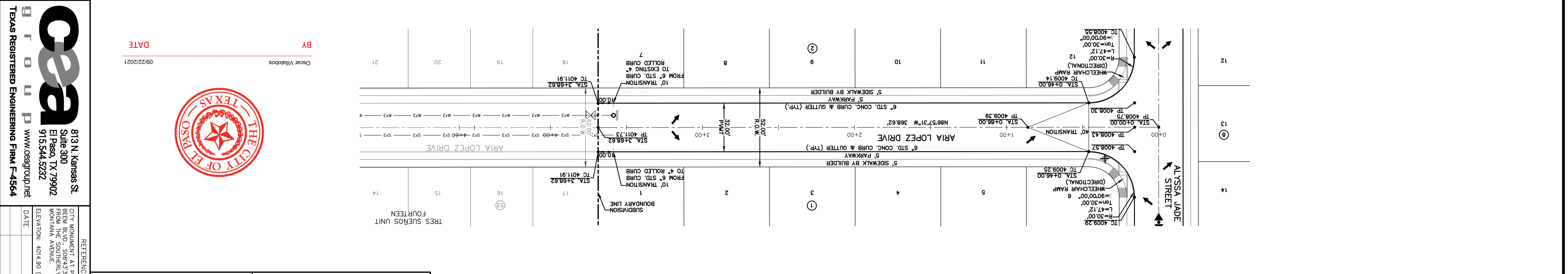
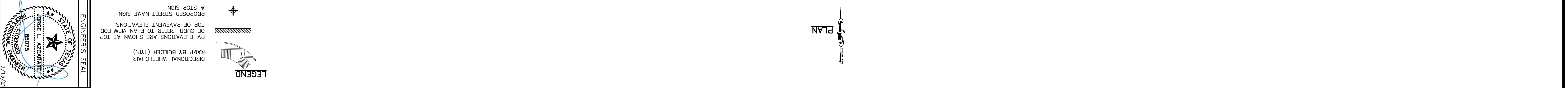
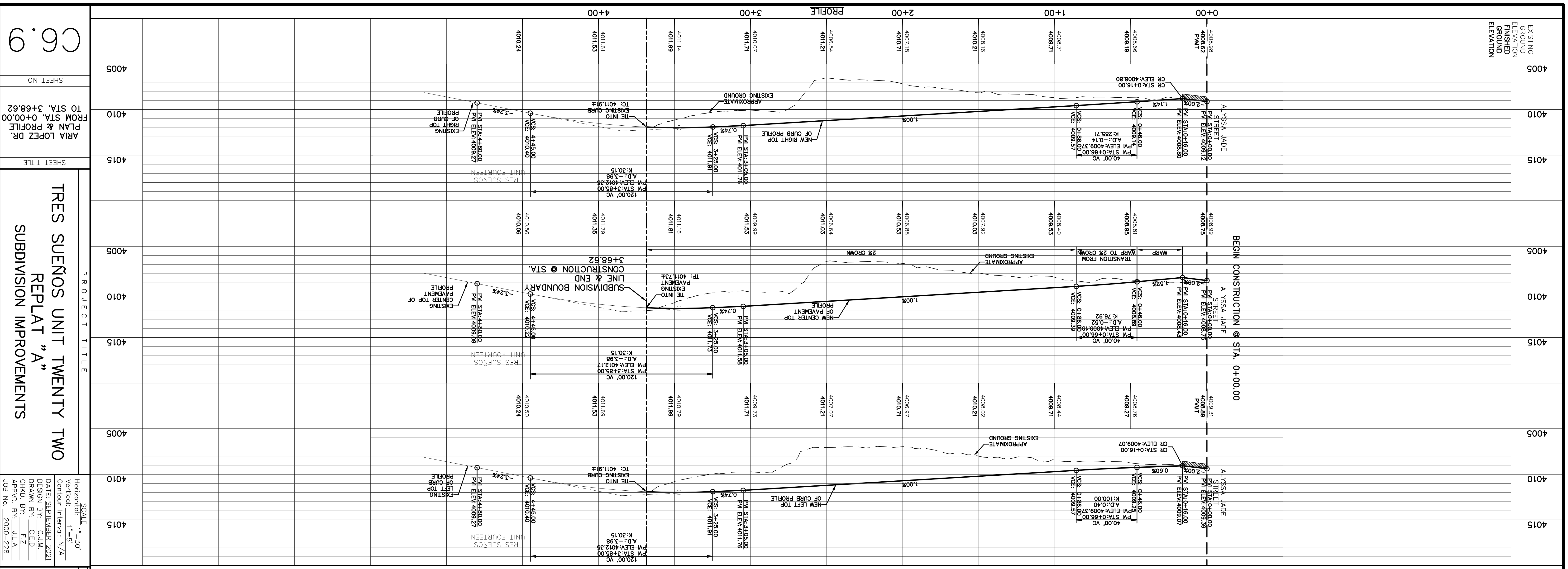


LEGEND

- DIRECTIONAL WHEELCHAIR RAMP BY BUILDER (TYP.)
- PVI ELEVATIONS ARE SHOWN AT TOP OF CURB. REFER TO PLAN VIEW FOR TOP OF PAVEMENT ELEVATIONS.
- PROPOSED STREET NAME SIGN & STOP SIGN
- SIDEWALK BY DEVELOPER



9/13/21



ENGINEER'S SEAL

THE CITY OF PASADENA, TEXAS

TECHNICAL ENGINEER

813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5292
www.ceagroup.net

TEXAS REGISTERED ENGINEERING FIRM F-4564

REFERENCES - BENCHMARKS

CITY MONUMENT AT POINT OF CURVE CENTERLINE, RIGHT BEHIND BLDG., S08°43'31" A DISTANCE OF 467.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
ELEVATION: 4014.90 (NAVD 88) (4905.40 CITY DATUM)

UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY (915) 543-5720
EL PASO WATER UTILITIES (915) 594-5500
MCI SURVEILLANCE (800) MCI-WORK
TIME WARNER COMMUNICATIONS (915) 772-1123
TEXAS GAS SERVICE (800) 545-6000
AT&T (800) 452-3786
U.S. SPRINT TELECOMM (800) 521-0579

FOR FIELD LOCATING EXISTING UTILITIES

CALL 811 BEFORE YOU DIG!

REVISIONS

DATE

BY



Oscar Villalobos
 BY DATE

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	400.00'	109.89'	55.29'	109.54'	N10°54'39"E	015°44'26"

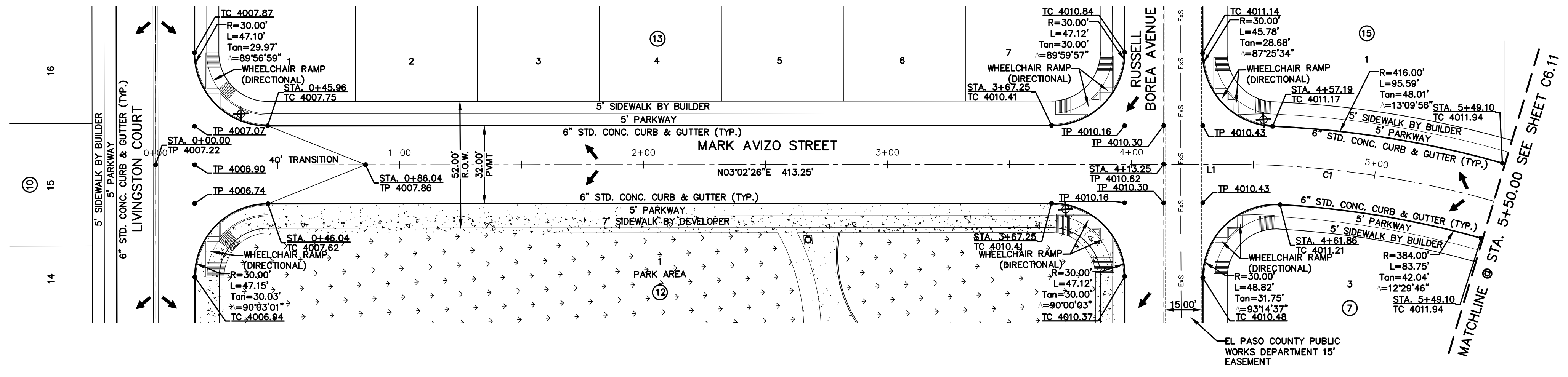
LINE TABLE		
LINE	BEARING	LENGTH
L1	N03°02'26"E	25.96'

UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY (915) 543-5720
 EL PASO ENERGY CORPORATION (915) 496-5244
 EL PASO WATER UTILITIES (915) 594-5500
 MCI SURVEILLANCE (800) MCI-WORK
 TIME WARNER COMMUNICATIONS (915) 772-1123
 TEXAS GAS SERVICE (915) 680-7200
 SBC (800) 945-6005
 AT&T (800) 852-3786
 U.S. SPRINT TELECOMM (800) 521-0579

WARNING!
BEFORE YOU DIG
CALL 811
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
 CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD., 508°43'31" A DISTANCE OF 487.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
 ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)

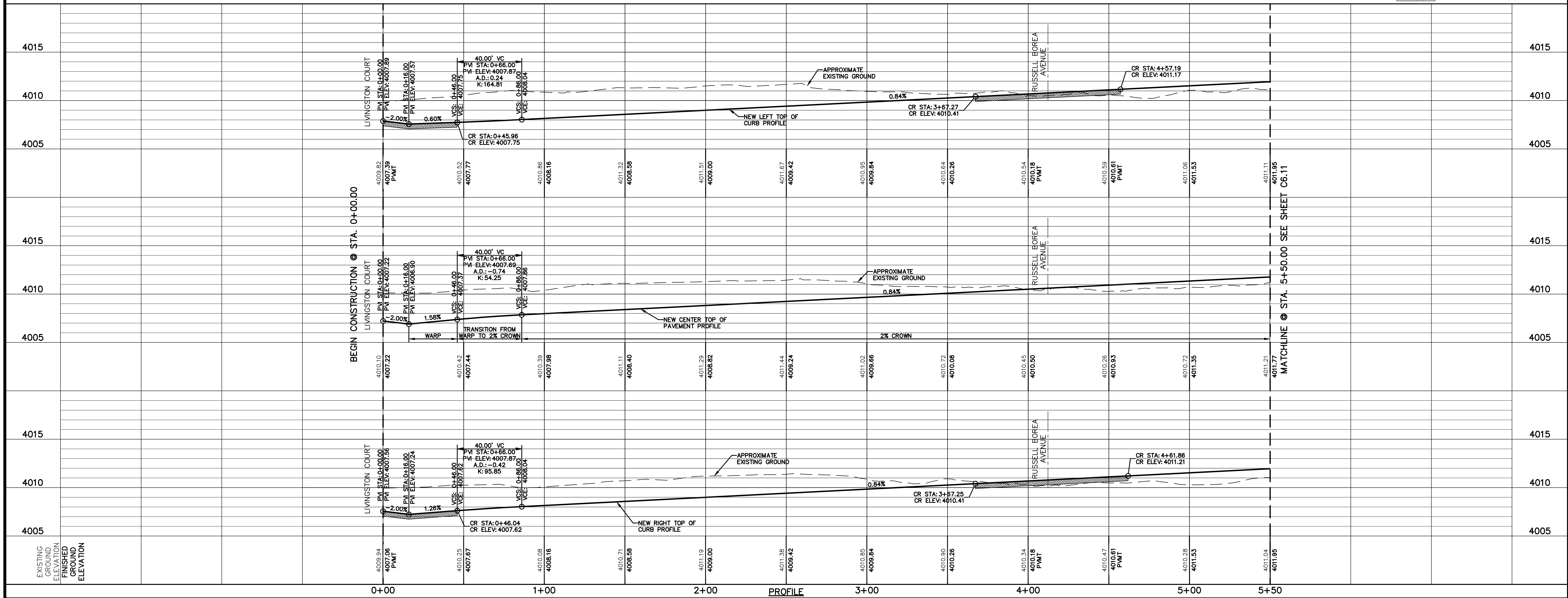
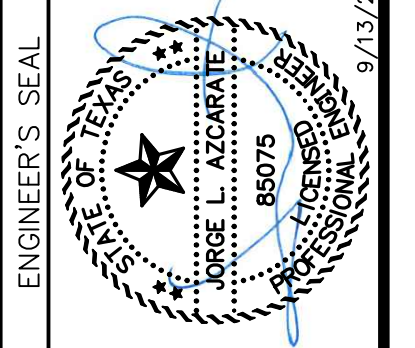


PLAN

LEGEND

- DIRECTIONAL WHEELCHAIR RAMP BY BUILDER (TYP.)
- PVI ELEVATIONS ARE SHOWN AT TOP OF CURB. REFER TO PLAN VIEW FOR TOP OF PAVEMENT ELEVATIONS.
- PROPOSED STREET NAME SIGN & STOP SIGN
- SIDEWALK BY DEVELOPER

813 N. Kansas St.
 Suite 300
 El Paso, TX 79902
 915.544.5232
 www.ceagroup.net
CEA GROUP
 TEXAS REGISTERED ENGINEERING FIRM F-4564

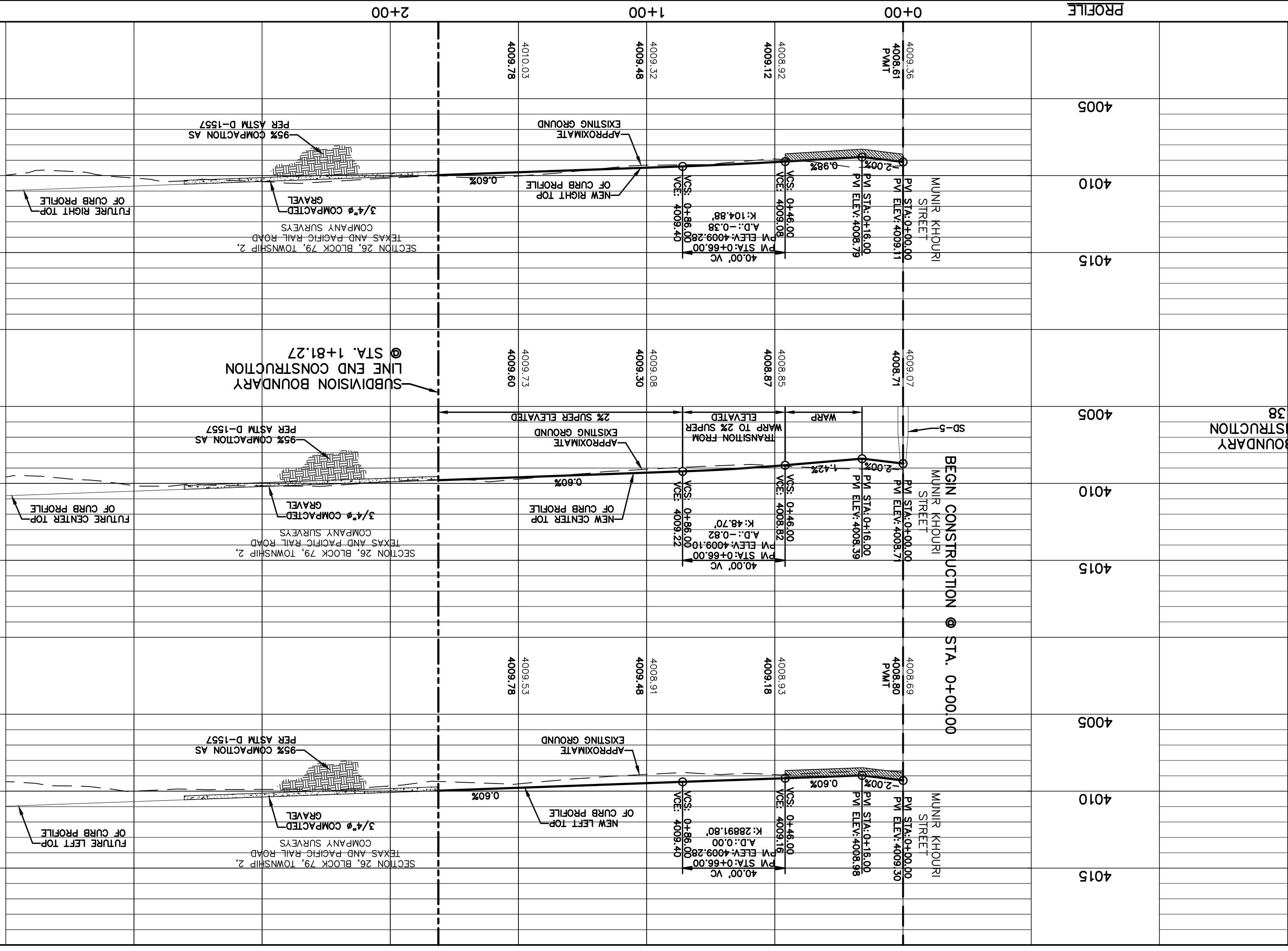
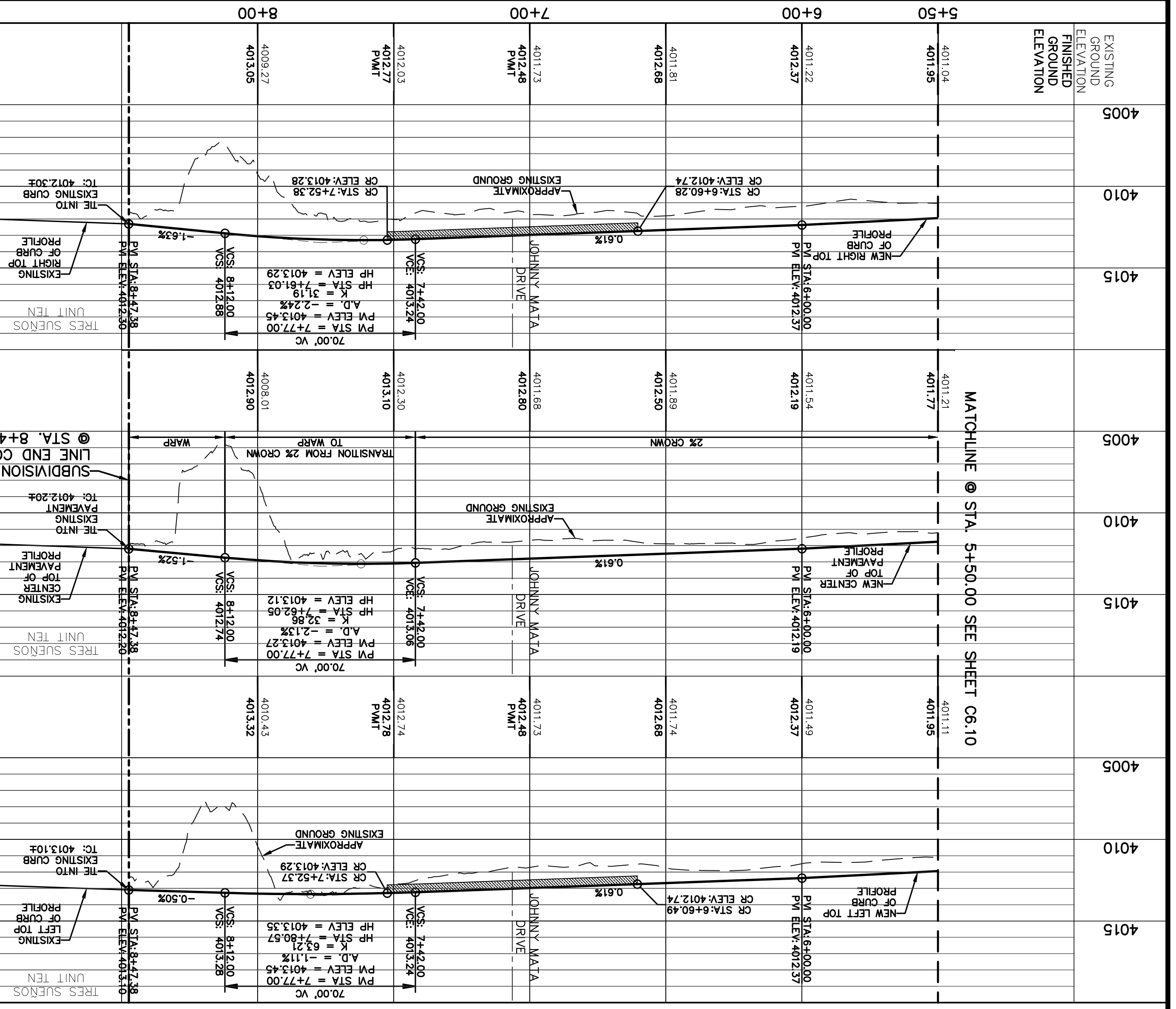


SCALE: 1"=30'
 Horizontal: 1"=5'
 Vertical: Contour Interval: 1' / A
 DATE: SEPTEMBER 2021
 DESIGN BY: G.J.M.
 DRAWN BY: C.E.D.
 CHKD. BY: F.Z.
 APPVD. BY: J.L.A.
 JOB No. : 2000-228

PROJECT TITLE
**TRES SUEÑOS UNIT TWENTY TWO
 REPLAT "A"
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**MARK AVIZO STREET
 PLAN & PROFILE
 FROM STA. 0+00.00
 TO STA. 5+50.00**

SHEET NO.
C6.10



C6.11
SHEET NO.
FROM STA. 0+00.00
TO STA. 1+81.27
BRIANNA LEAH DRIVE
PLAN & PROFILE
FROM STA. 8+47.38
TO STA. 8+50.00
MARK AVIZO STREET
PLAN & PROFILE

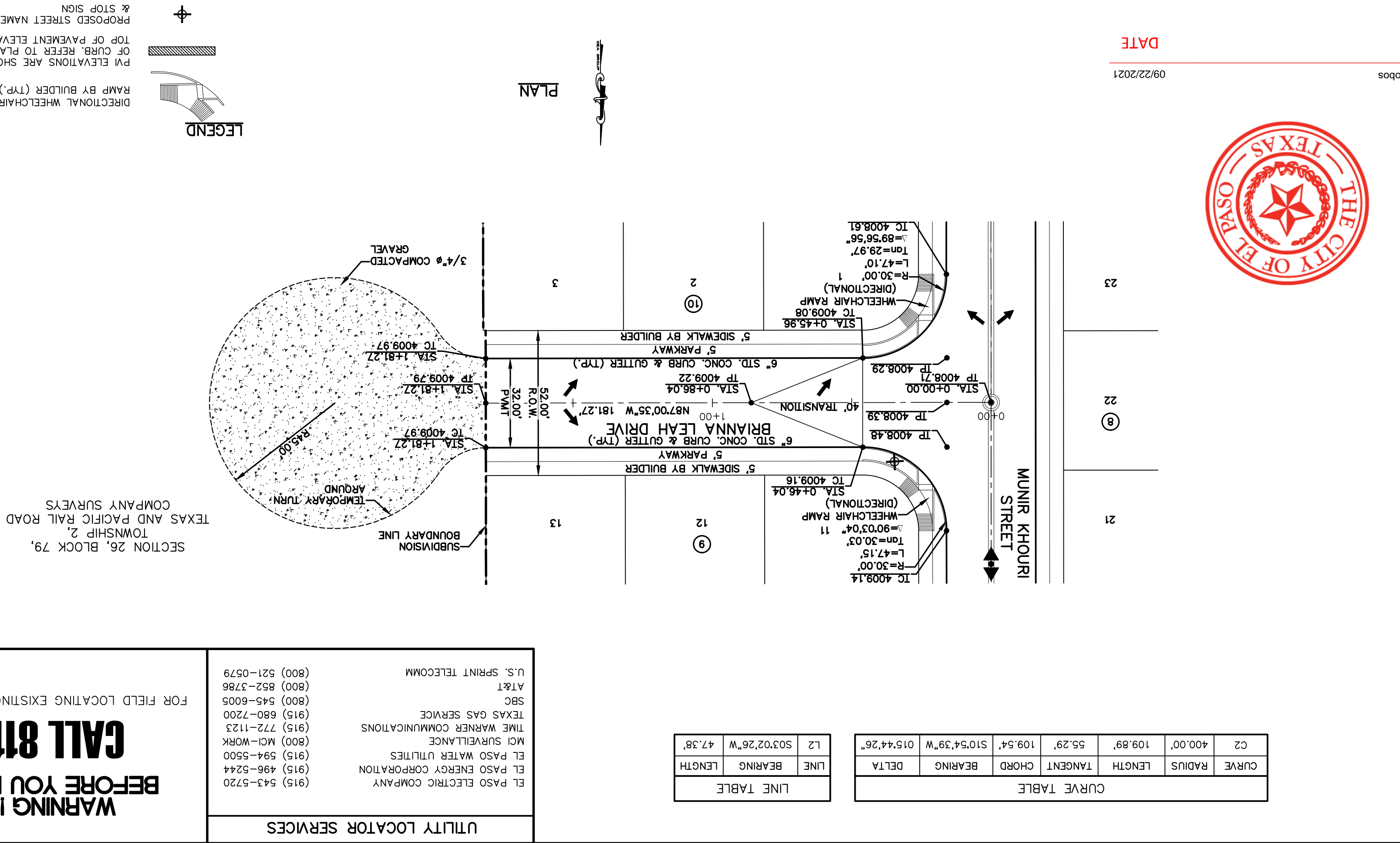
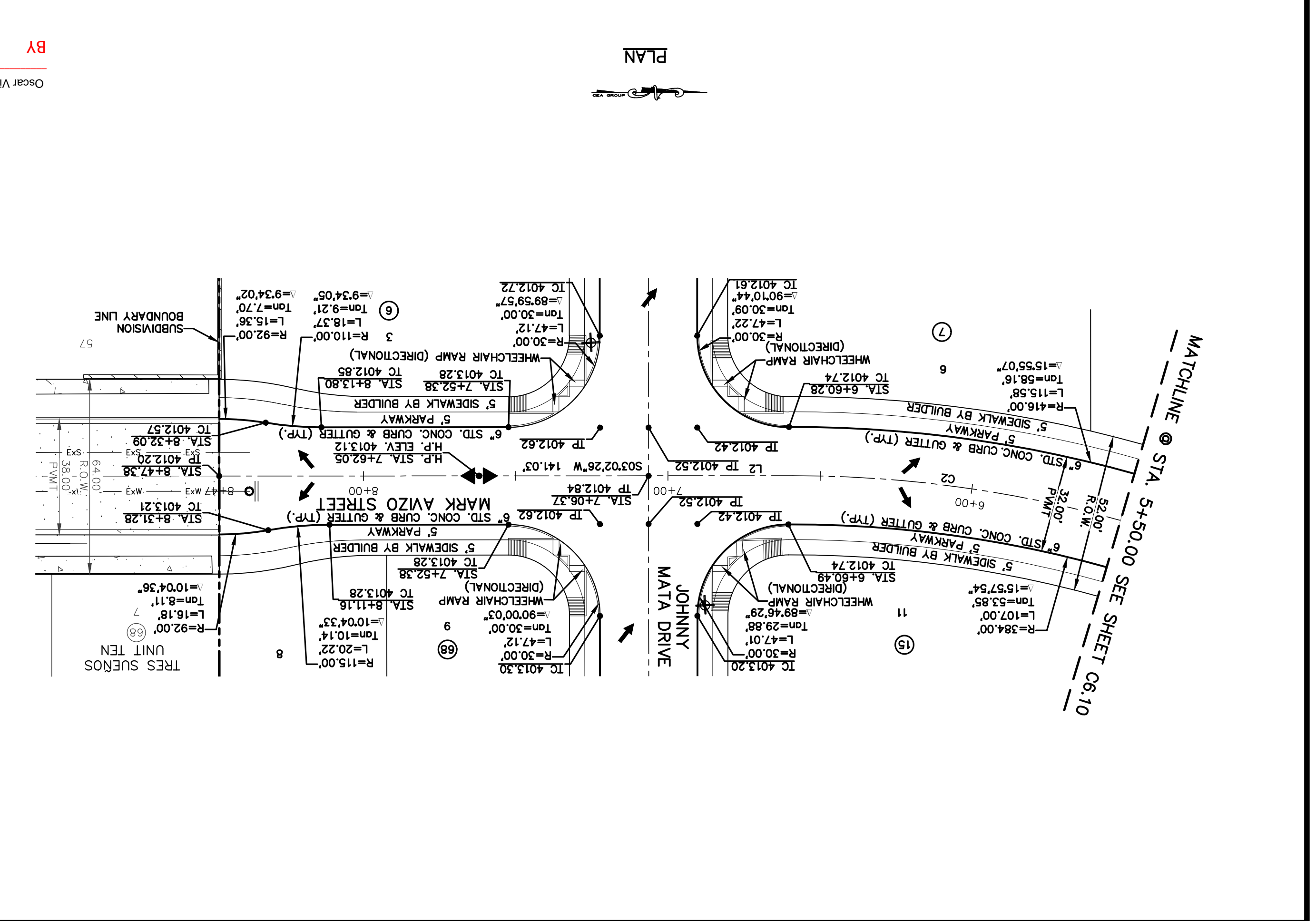
SHEET TITLE

TRES SUENOS UNIT TWENTY TWO
REPLAT "A"
SUBDIVISION IMPROVEMENTS

PROJECT TITLE

SCALE: 1" = 30'
Vertical: 1" = 5'
Horizontal: 1" = 50'
Contour Interval: N/A

DATE: SEPTEMBER 2021
DESIGN BY: G.J.M.
DRAWN BY: C.E.D.
CHKD. BY: F.Z.
APPD. BY: J.L.A.
JOB NO.: 2000-228



ENGINEER'S SEAL

DATE: 09/22/2021

BY: Oscar Villalobos

THE CITY OF EL PASO, TEXAS

LEGEND

PROPOSED STREET NAME SIGN & STOP SIGN
TOP OF PAVEMENT ELEVATIONS.
PVI ELEVATIONS ARE SHOWN AT TOP OF CURB. REFER TO PLAN VIEW FOR DIRECTIONAL WHEELCHAIR RAMP BY BUILDER (TRP).

UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY (915) 543-5220
EL PASO WATER UTILITIES (915) 594-5500
MCI SURVEILLANCE (800) MCI-WORK
TMC WARMER COMMUNICATIONS (915) 772-1123
TEXAS GAS SERVICE (915) 680-7200
AT&T (800) 452-3786
U.S. SPRINT TELECOMM (800) 521-0579

FOR FIELD LOCATING EXISTING UTILITIES

CALL 811 BEFORE YOU DIG!

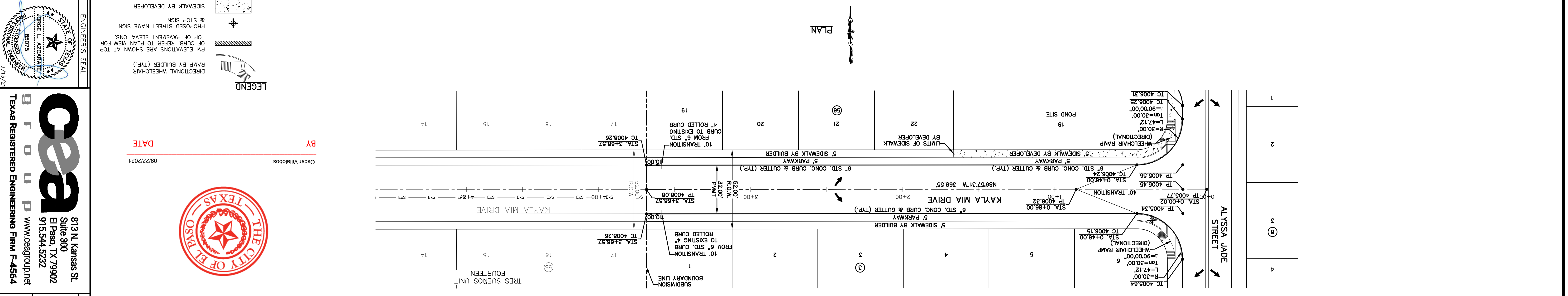
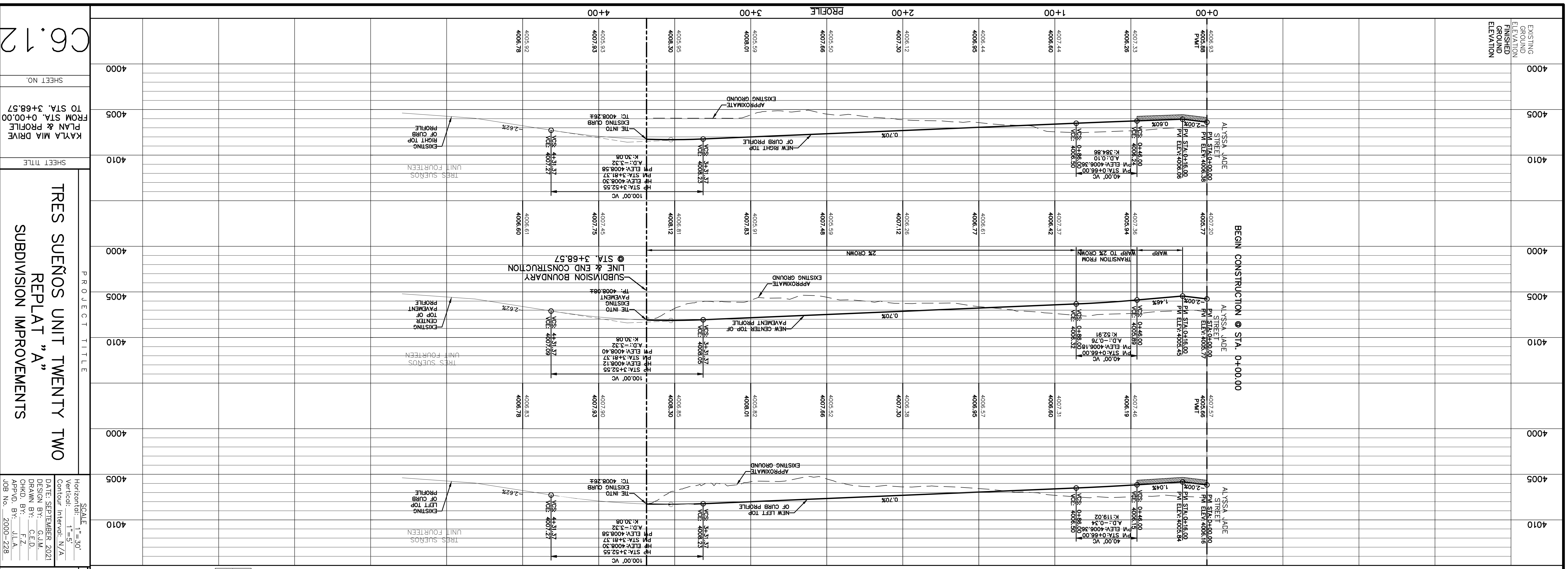
REFERENCES - BENCHMARKS
CITY MONUMENT AT POINT OF CURVE CENTERLINE, RICH BEEM BLVD., S08°43'31" A DISTANCE OF 467.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
ELEVATION: 4014.90 (NAVD 88) (4905.40 CITY DATUM)

DATE: _____ BY: _____
REVISIONS: _____

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C2	400.00'	109.89'	55.29'	109.54'	S10°54'39"W	015°44'26"
L2	503'02.26"W	47.38'				

LINE	BEARING	LENGTH
12	S03'02'26"W	47.38'

813 N. Kansas St.
Suite 300
El Paso, TX 79902
El Paso, TX 79902
915.544.5292
www.oandap.com



ENGINEER'S SEAL
 OSCAR VILLALOBOS, P.E. No. 85075, State of Texas, Exp. 9/13/27

LEGEND
 SIDEWALK BY DEVELOPER
 PROPOSED STREET NAME SIGN & STOP SIGN
 TOP OF PAVEMENT ELEVATIONS
 PVI ELEVATIONS ARE SHOWN AT TOP OF CURB
 RAMP BY BUILDER (TRP.)
 DIRECTIONAL WHEELCHAIR

DATE 09/22/2021

BY Oscar Villalobos

UTILITY LOCATOR SERVICES
 U.S. SPRINT TELECOMM (800) 521-0579
 AT&T (800) 452-3786
 SBC (800) 545-6005
 TEXAS GAS SERVICE (915) 650-7200
 TIME WARNER COMMUNICATIONS (915) 772-1123
 MCI SURVEILLANCE (800) MCI-WORK
 EL PASO WATER UTILITIES (915) 594-5500
 EL PASO ENERGY CORPORATION (915) 496-5244
 EL PASO ELECTRIC COMPANY (915) 543-5720

REFERENCES - BENCHMARKS
 CITY MONUMENT AT POINT OF CURVE CENTERLINE, RICH BEEM BLVD., S08°43'31" A DISTANCE OF 467.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
 ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)

WARNING! BEFORE YOU DIG CALL 811
 FOR FIELD LOCATING EXISTING UTILITIES

PROJECT TITLE
 TRES SUEÑOS UNIT TWENTY TWO REPLAT "A" SUBDIVISION IMPROVEMENTS

SCALE
 Horizontal: 1" = 30'
 Vertical: 1" = 5'
 Contour Interval: N/A

DATE: SEPTEMBER 2021
DESIGN BY: G.J.M.
DRAWN BY: C.E.D.
CHKD. BY: F.Z.
APPVD. BY: J.L.A.
JOB NO.: 2000-228

ENGINEER'S SEAL
 OSCAR VILLALOBOS, P.E. No. 85075, State of Texas, Exp. 9/13/27

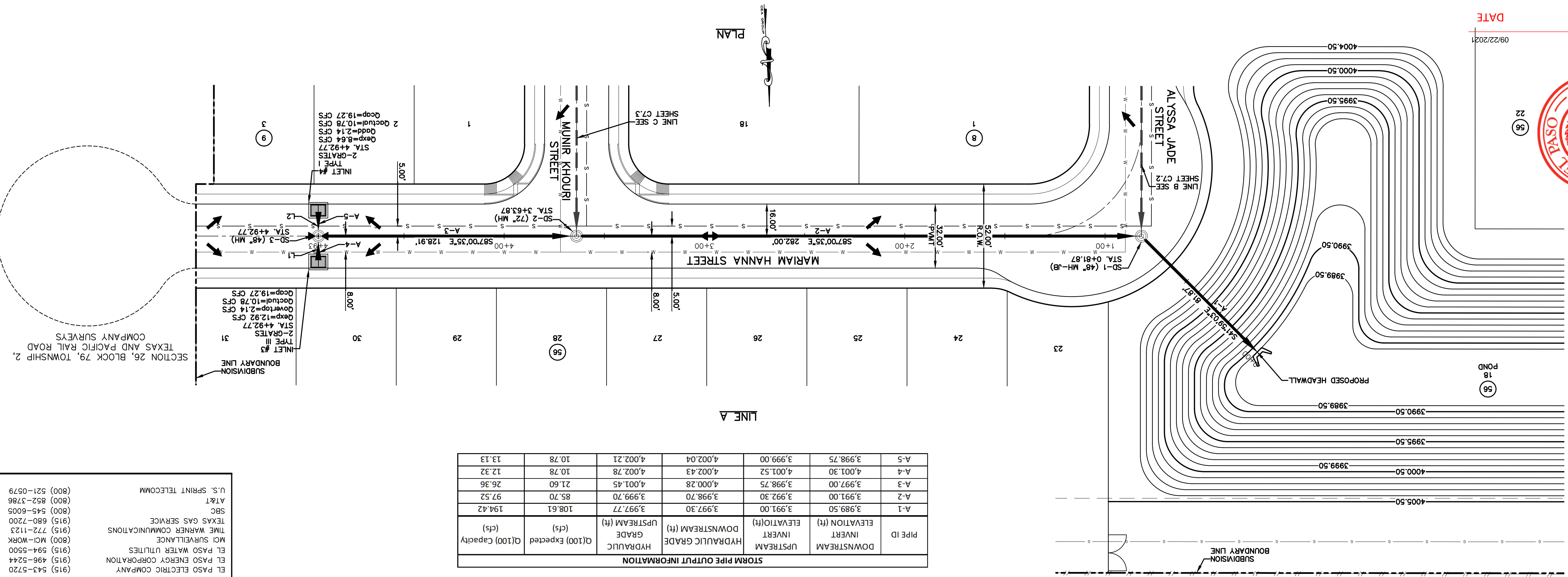
813 N. Kansas St.
 Suite 300
 El Paso, TX 79902
 915.544.5292
 www.ceagroup.net

TEXAS REGISTERED ENGINEERING FIRM F-4564

SHEET TITLE
 KAYLA MIA DRIVE FROM STA. 0+00.00 TO STA. 3+68.57

SHEET NO.
 C6.12

BY Oscar Villalobos
DATE 09/22/2024



STORM PIPE OUTPUT INFORMATION

PIPE ID	DOWNSTREAM ELEVATION (ft)	INVERT ELEVATION (ft)	UPSTREAM ELEVATION (ft)	HYDRAULIC GRADE (ft)	UPSTREAM (ft)	DOWNSTREAM (ft)	Q(100) Expected (cfs)	Q(100) Capacity (cfs)
A-1	3,989.50	3,991.00	3,997.30	3,997.30	108.61	194.42	97.52	13.13
A-2	3,991.00	3,992.70	3,998.70	3,998.70	85.70	97.52	26.36	12.32
A-3	3,997.00	3,998.75	4,000.28	4,000.28	21.60	26.36	10.78	10.78
A-4	4,001.30	4,001.52	4,002.78	4,002.78	10.78	10.78	10.78	10.78
A-5	3,998.75	3,999.00	4,002.04	4,002.04	10.78	10.78	10.78	10.78

LINE TABLE

LINE	BEARING	LENGTH
L2	S02°59'25"W	16.00'
L1	S02°59'25"W	16.00'

UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY (915) 543-5720
 EL PASO ENERGY CORPORATION (915) 496-5244
 EL PASO WATER UTILITIES (915) 594-5500
 MCI SURVEILLANCE (800) MCI-WORK
 TIME WARNER COMMUNICATIONS (915) 772-1123
 TEXAS GAS SERVICE (915) 680-7200
 SBC (800) 545-6000
 AT&T (800) 452-3786
 U.S. SPRINT TELECOMM (800) 521-0579

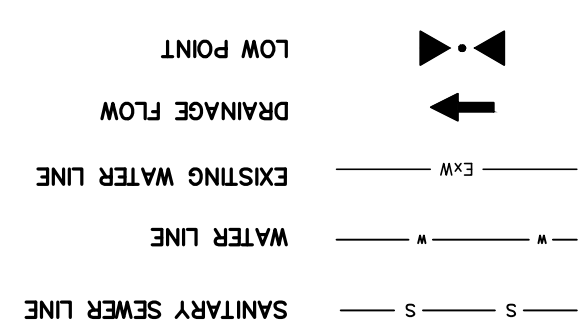
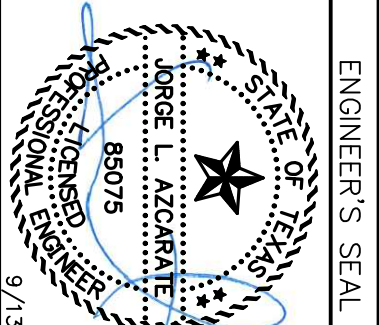
WARNING! BEFORE YOU DIG CALL 811

FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

CITY MONUMENT AT POINT OF CURVE CENTERLINE, RICH BEEM BLVD., S08°43'31" A DISTANCE OF 467.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
 ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)

813 N. Kansas St.
 Suite 300
 El Paso, TX 79902
 El Paso, TX 79902
 915.544.5292
 www.ceegroup.net
 TEXAS REGISTERED ENGINEERING FIRM F-4564



SCALE 1" = 30'

Horizontal: 1" = 30'
 Vertical: 1" = 5'
 Contour Interval: N/A

DATE: SEPTEMBER 2021
 DESIGN BY: G.J.M.
 DRAWN BY: E.Z.
 CHKD. BY: J.L.A.
 APPVD. BY: J.L.A.
 JOB No.: 2000-228

PROJECT TITLE

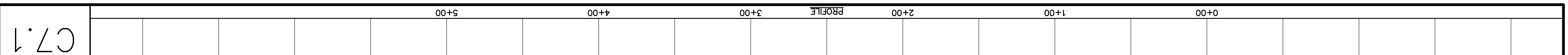
TRES SUEÑOS UNIT TWENTY TWO
 REPLAT "A"
 SUBDIVISION IMPROVEMENTS

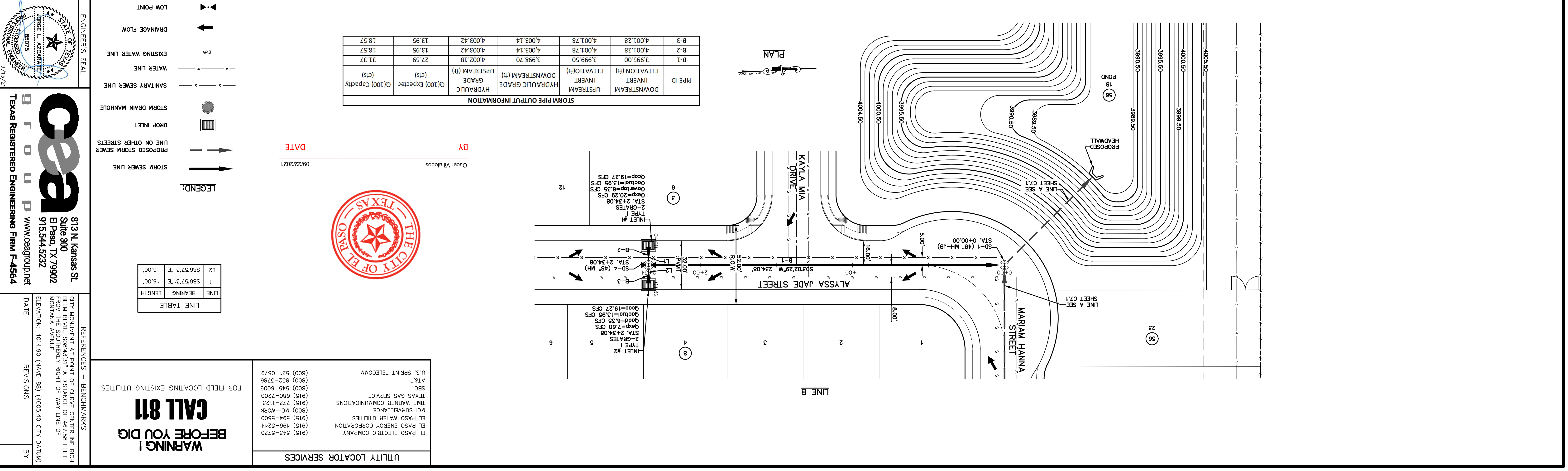
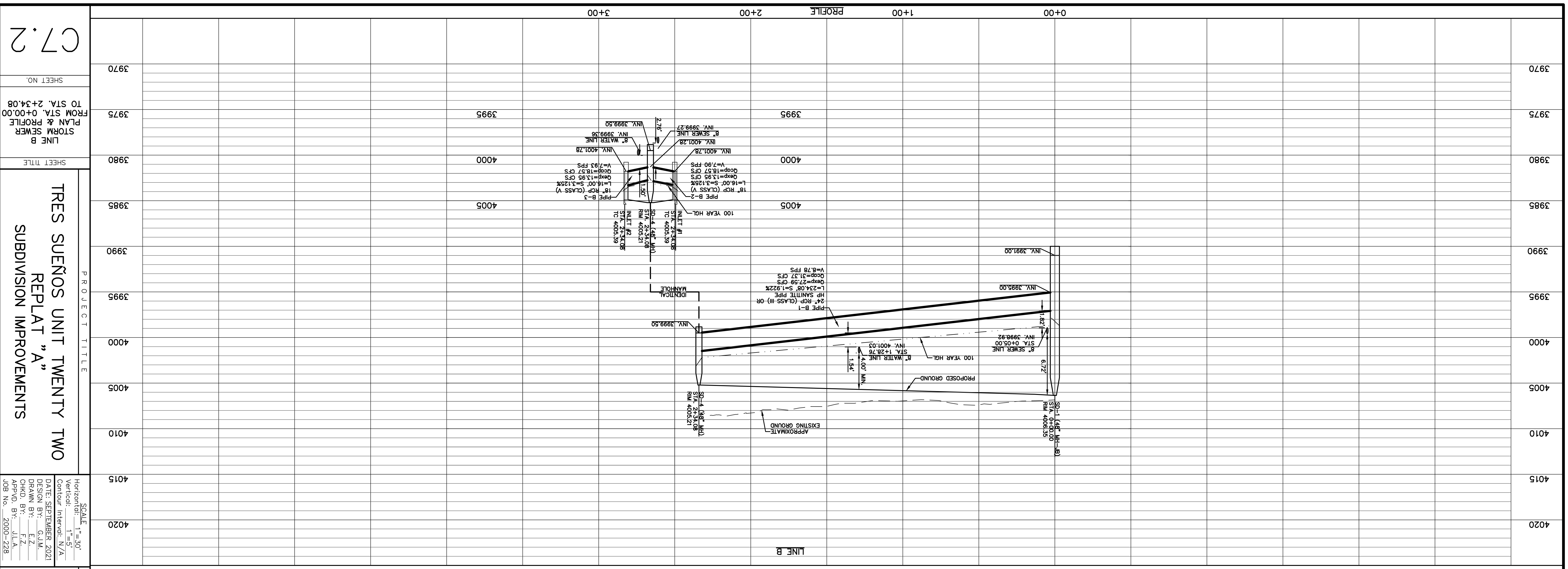
SHEET TITLE

LINE A
 STORM SEWER
 PLAN & PROFILE
 FROM STA. 0+00.00
 TO STA. 4+92.77

SHEET NO.

C7.1





PIPE ID	UPSTREAM INVERT ELEVATION (ft)	DOWNSTREAM INVERT ELEVATION (ft)	HYDRAULIC GRADE UPSTREAM (ft)	HYDRAULIC GRADE DOWNSTREAM (ft)	Q(100) Expected (cfs)	Q(100) Capacity (cfs)
B-1	3,955.00	3,999.50	4,002.18	3,998.70	27.59	31.37
B-2	4,001.28	4,001.78	4,003.42	4,003.14	13.95	18.57
B-3	4,001.28	4,001.78	4,003.42	4,003.14	13.95	18.57



LINE	BEARING	LENGTH
L2	S86°57'31\"/>	

EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
585	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOM	(800) 521-0579

WARNING!
BEFORE YOU DIG
CALL 811

FOR FIELD LOCATING EXISTING UTILITIES

PROJECT TITLE
TRES SUEÑOS UNIT TWENTY TWO REPLAT "A" SUBDIVISION IMPROVEMENTS

SCALE: 1"=30'
Horizontal: 1"=50'
Vertical: Contour Interval N/A

DATE: SEPTEMBER 2021
DESIGN BY: G.I.M.
DRAWN BY: E.Z.
CHKD. BY: F.Z.
APPVD. BY: J.L.A.
JOB NO.: 2000-228

ENGINEER'S SEAL

813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5292
www.ceagroup.net

TEXAS REGISTERED ENGINEERING FIRM F-4564

DATE: _____
REVISIONS: _____

DATE: _____
BY: _____

C7.2

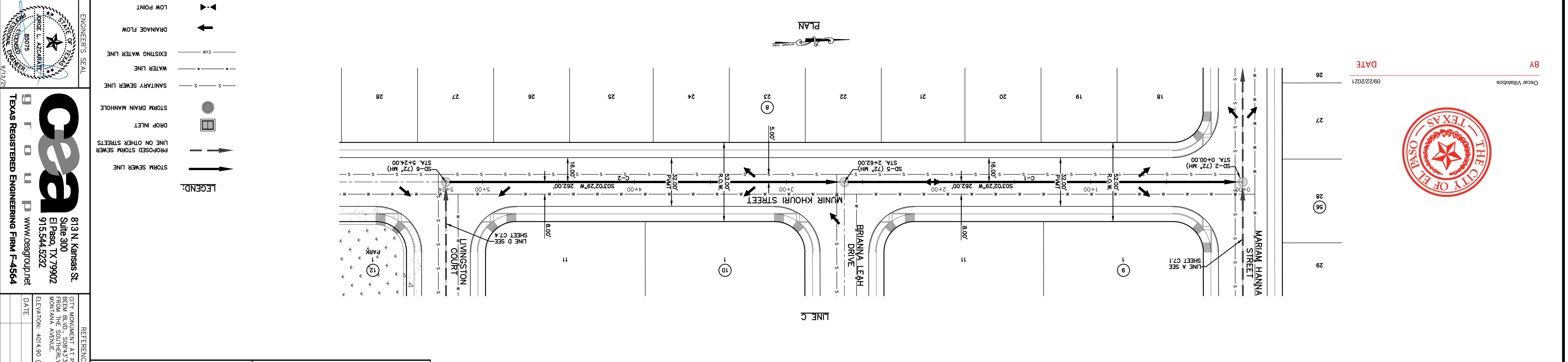
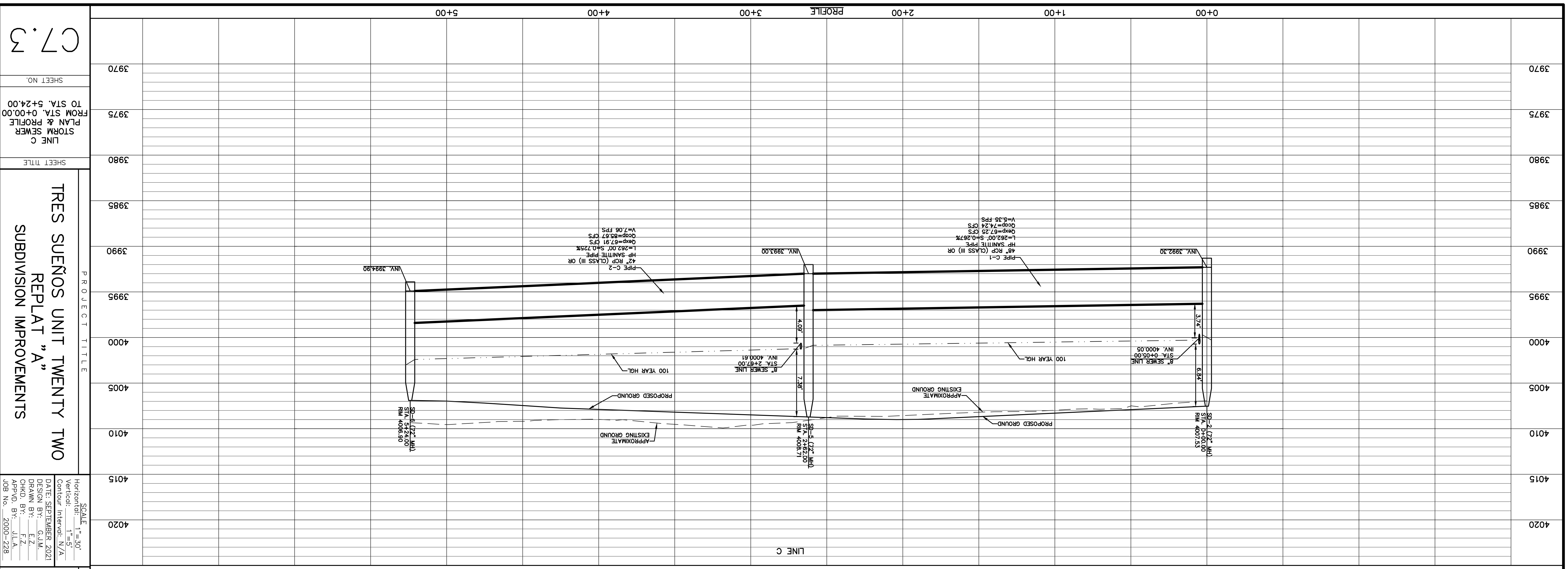
SHEET NO.
FROM STA. 0+00.00 TO STA. 2+34.08
PLAN & PROFILE
LINE B
STORM SEWER

SHEET TITLE

3970
3975
3980
3985
3990
3995
4000
4005
4010
4015
4020

PROFILE
0+00
1+00
2+00
3+00

3970
3975
3980
3985
3990
3995
4000
4005
4010
4015
4020



STORM PIPE OUTPUT INFORMATION

PIPE ID	DOWNSTREAM INVERT ELEVATION (ft)	UPSTREAM INVERT ELEVATION (ft)	HYDRAULIC GRADE	UPSTREAM GRADE	GRADE (fts)	Q(100) Expected (cfs)	Q(100) Capacity (cfs)
C-1	3,992.30	3,993.00	4,000.28	4,002.40	67.25	74.24	
C-2	3,993.00	3,994.90	4,001.21	4,002.40	67.91	85.67	

UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY (915) 543-5720
 EL PASO ENERGY CORPORATION (915) 496-5244
 EL PASO WATER UTILITIES (915) 594-5500
 MCI SURVEILLANCE (800) MCI-WORK
 TMC WARNER COMMUNICATIONS (915) 772-1123
 TEXAS GAS SERVICE (800) 545-6005
 AT&T (800) 452-3786
 U.S. SPRINT TELECOMM (800) 521-0579

REFERENCES - BENCHMARKS

CITY MONUMENT AT POINT OF CURVE CENTERLINE, RICH BEEM BLVD., S08+33.71 A DISTANCE OF 467.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
 ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)

WARNING! BEFORE YOU DIG CALL 811

FOR FIELD LOCATING EXISTING UTILITIES

DATE: _____ REVISIONS: _____ BY: _____

PROJECT TITLE

TRES SUEÑOS UNIT TWENTY TWO
 REPLAT "A"
 SUBDIVISION IMPROVEMENTS

SCALE 1"=30'

Horizontal: 1"=50'
 Vertical: 1"=5'
 Contour Interval: N/A

DATE: SEPTEMBER 2021
 DESIGN BY: G.I.M.
 DRAWN BY: E.Z.
 CKD. BY: F.Z.
 APPD. BY: J.L.A.
 JOB No.: 2000-228

SHEET TITLE

LINE C
 STORM SEWER
 PLAN & PROFILE
 FROM STA. 0+00.00
 TO STA. 5+24.00

SHEET NO. 3970

C7.3

ENGINEER'S SEAL

Professional Engineer Seal for Oscar Villalobos, State of Texas, License No. 85075, dated 9/13/21.

LEGEND

- LOW POINT
- DRAINAGE FLOW
- EXISTING WATER LINE
- WATER LINE
- SANITARY SEWER LINE
- STORM DRAIN MANHOLE
- DROP INLET
- PROPOSED STORM SEWER LINE ON OTHER STREETS
- STORM SEWER LINE

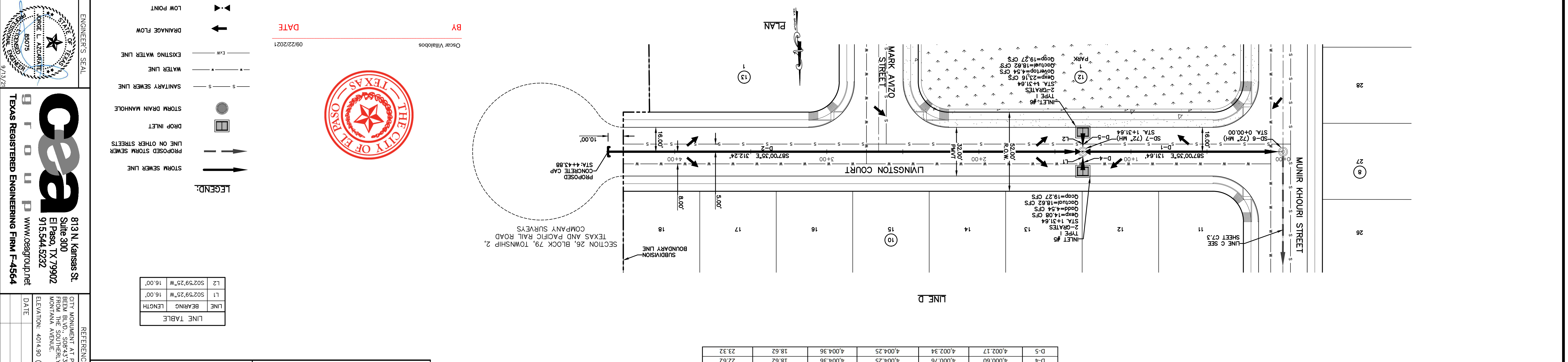
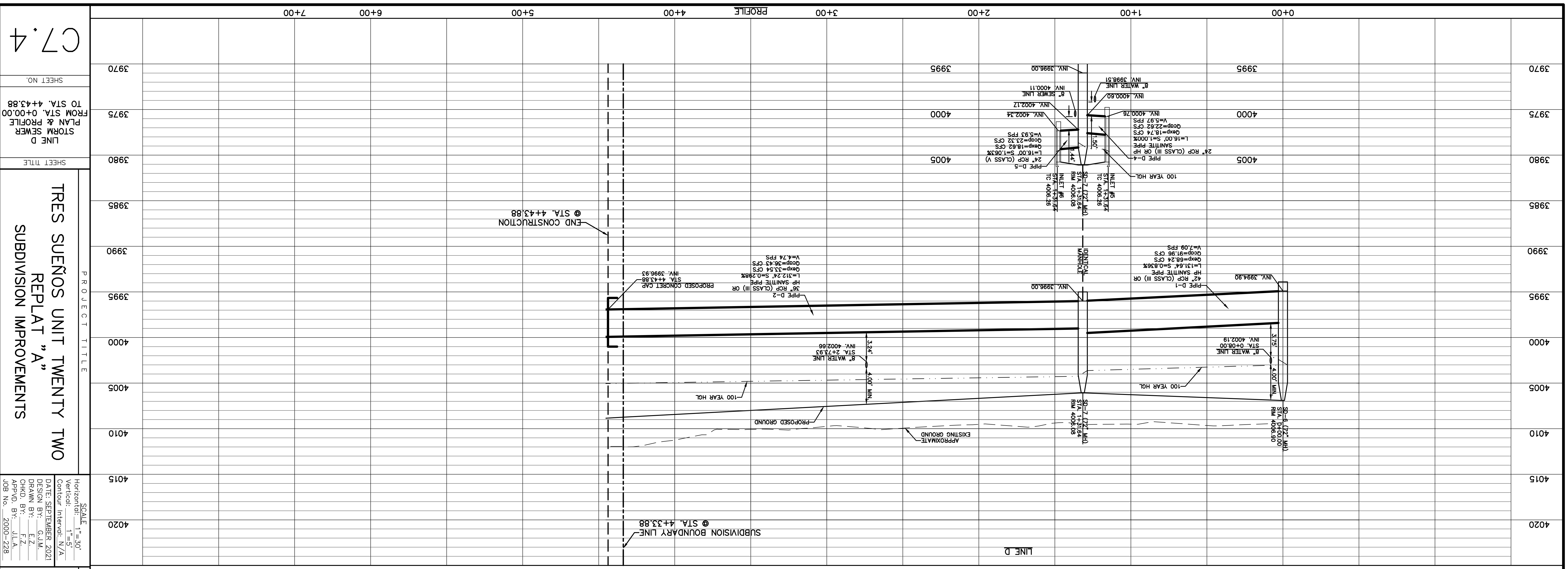
CE&E

813 N. Kansas St.
 Suite 300
 El Paso, TX 79902
 915.544.5292
 www.ceandep.com

TEXAS REGISTERED ENGINEERING FIRM F-4564

BY: Oscar Villalobos
 DATE: 09/22/2021

THE CITY OF EL PASO, TEXAS



STORM PIPE OUTPUT INFORMATION

PIPE ID	DOWNSTREAM INVERT ELEVATION (ft)	UPSTREAM INVERT ELEVATION (ft)	HYDRAULIC GRADE	HYDRAULIC GRADE	EXPECTED Q(100) (cfs)	Q(100) CAPACITY (cfs)
D-1	3,994.90	3,996.00	4,003.02	4,003.63	68.24	91.96
D-2	3,996.00	3,997.30	4,004.25	4,005.36	33.54	36.43
D-4	4,000.60	4,000.76	4,004.25	4,004.36	18.62	22.62
D-5	4,002.17	4,002.34	4,004.25	4,004.36	18.62	23.32

UTILITY LOCATOR SERVICES

UTILITY	CONTACT	PHONE
EL PASO ELECTRIC COMPANY	(915) 543-5720	(915) 496-5244
EL PASO ENERGY CORPORATION	(915) 496-5244	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK	(915) 772-1123
TMC WARNER COMMUNICATIONS	(915) 680-7200	(915) 680-7200
TEXAS GAS SERVICE	(800) 545-6005	(800) 545-6005
AT&T	(800) 452-3786	(800) 452-3786
U.S. SPRINT TELECOMM	(800) 521-0579	(800) 521-0579

WARNING! BEFORE YOU DIG CALL 811

FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

CITY MONUMENT AT POINT OF CURVE CENTERLINE, RIGHT BEAM BLVD., S08°43'31" A DISTANCE OF 467.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONYANA AVENUE.

ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)

DATE: _____

REVISIONS: _____

BY: _____

ENGINEER'S SEAL

Oscar Villalobos

DATE: 09/22/2021

SCALE: 1" = 30'

Vertical: 1" = 5' / Contour Interval: N/A

Horizontal: 1" = 5' / Contour Interval: N/A

DATE: SEPTEMBER 2021

DESIGN BY: G.J.M.

DRAWN BY: E.Z.

CHKD. BY: F.Z.

APP'D. BY: J.L.A.

JOB NO.: 2000-228

813 N. Kansas St. Suite 300 El Paso, TX 79902 915.544.5292 www.ceegroup.net

TEXAS REGISTERED ENGINEERING FIRM F-4564

PROJECT TITLE

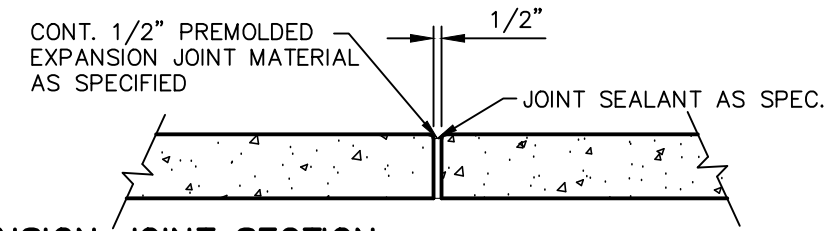
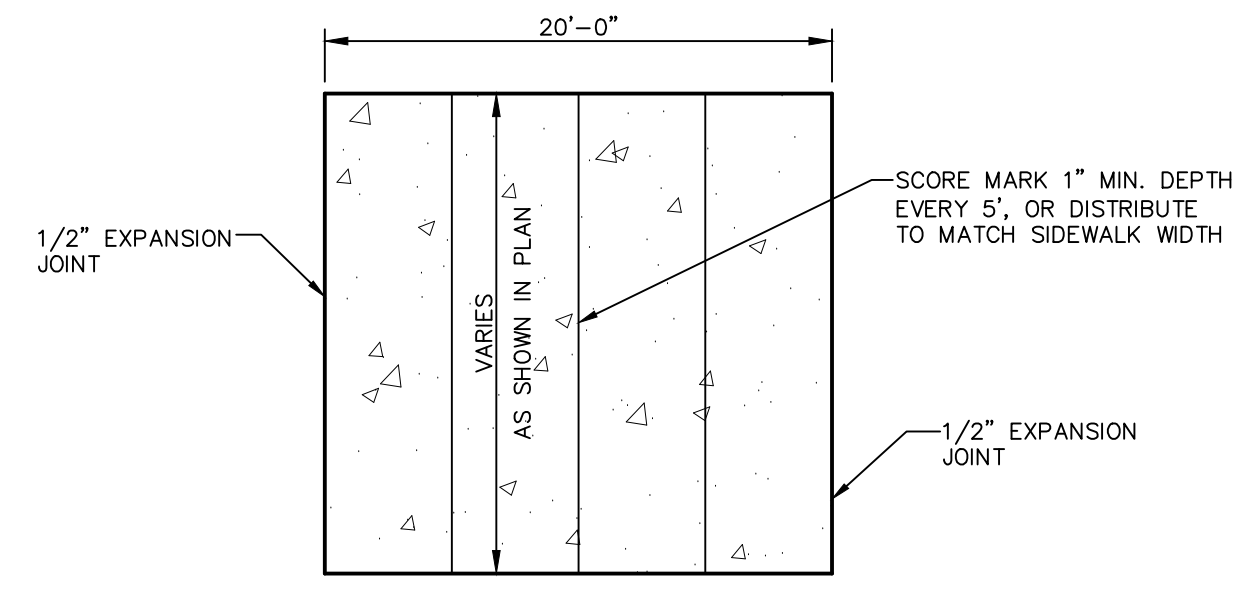
TRES SUEÑOS UNIT TWENTY TWO REPLAT "A" SUBDIVISION IMPROVEMENTS

SHEET TITLE

LINE D STORM SEWER PLAN & PROFILE FROM STA. 0+00.00 TO STA. 4+43.88

SHEET NO.

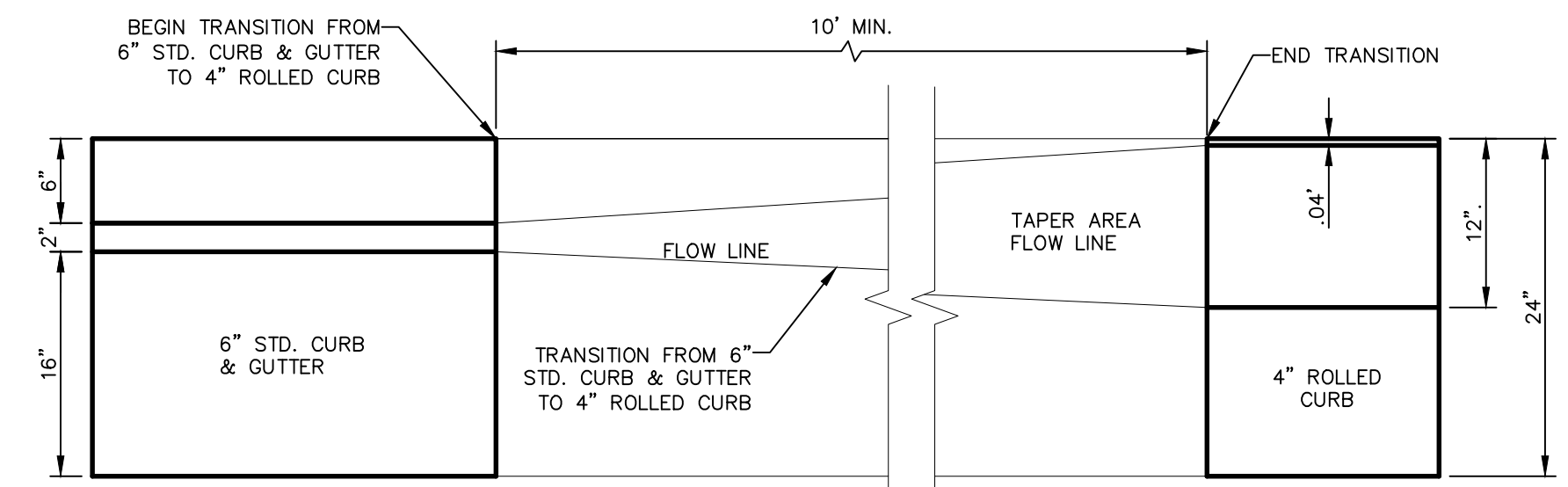
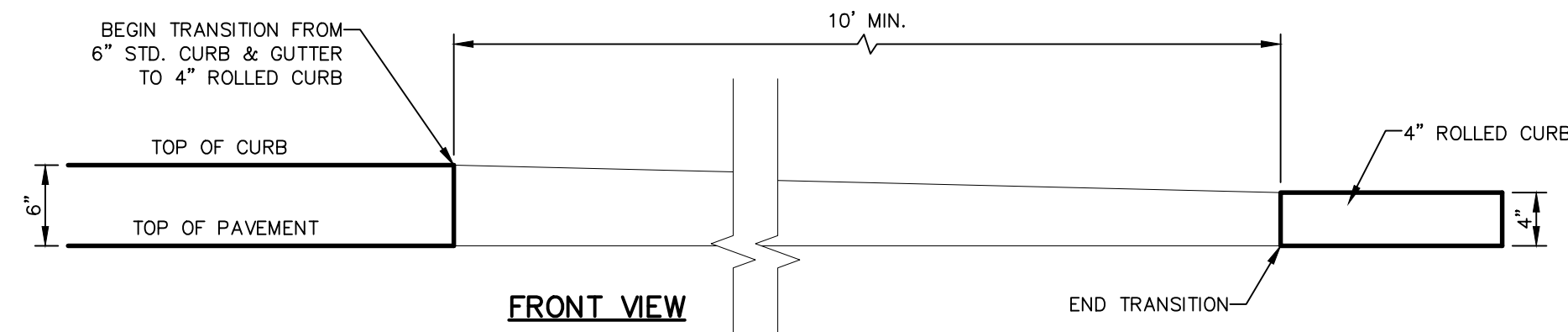
C7.4



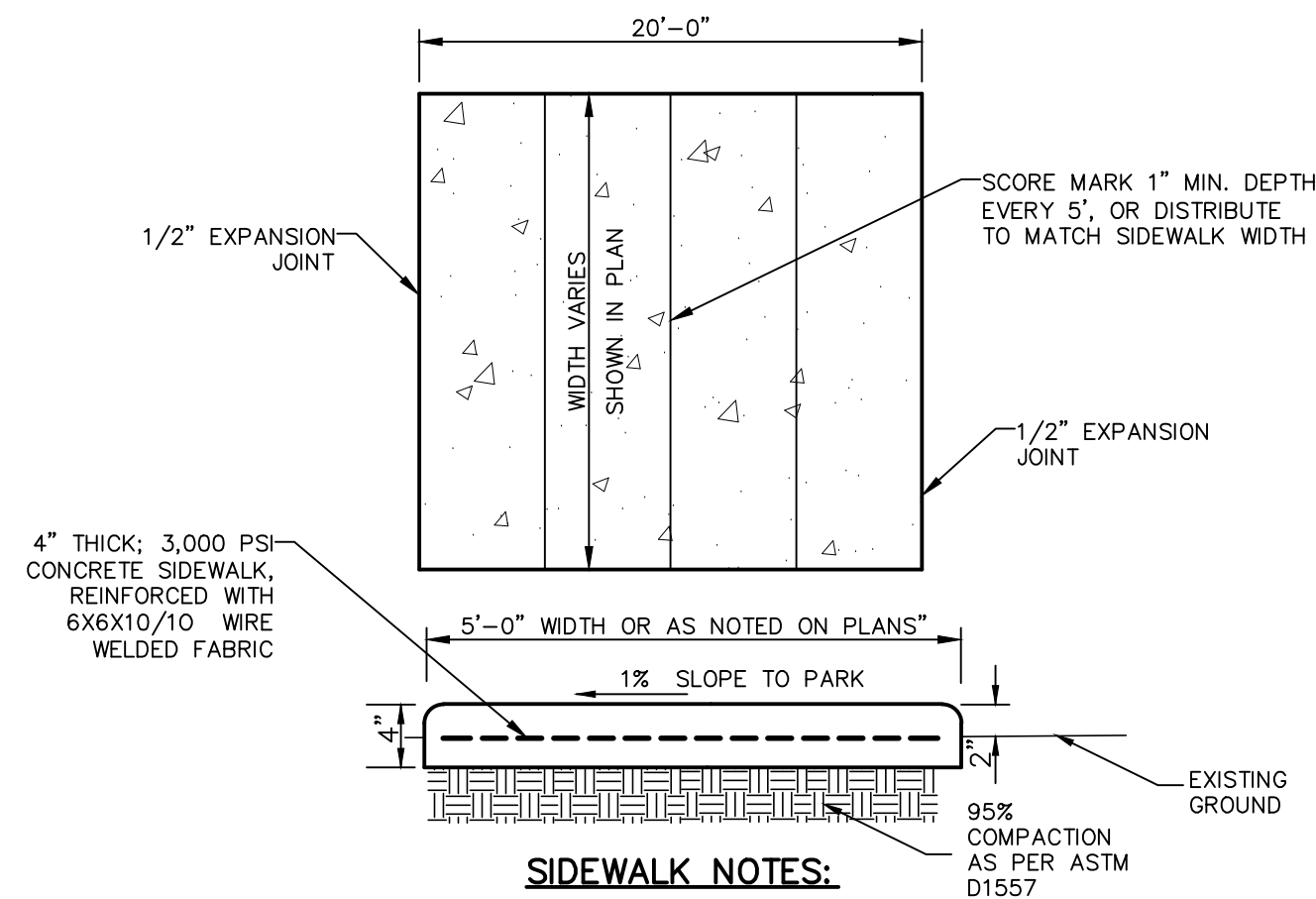
- NOTES:**
1. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PREFORMED JOINT FILLER (AASHTO M-33).
 2. EXPANSION JOINTS SHALL BE SPACED AT 20'-0" MAX.
 3. WHEREVER SIDEWALK ABUTS ROCK OR MASONRY STRUCTURES SUCH AS CURBS OR BUILDINGS, EXPANSION JOINTS FILLER SHALL BE PLACED IN ACCORDANCE WITH STANDARD SPECIFICATIONS.

- SIDEWALK NOTES:**
1. CONCRETE SIDEWALK SHALL BE 3,000 P.S.I. AT 28 DAYS.
 2. DUMMY JOINTS REQUIRED AT 5' O.C.
 3. EXPANSION JOINTS SHALL BE AT 20' O.C. MAXIMUM, USE 1/2" PREFORMED BITUMINOUS EXPANSION JOINTS (AASHTO M-33)
 4. EXPANSION JOINT FILLER SHALL BE PLACED WHEREVER SIDEWALK ABUTS ROCK OR MASONRY STRUCTURES SUCH AS CURBS OR BUILDINGS.
 5. SUBGRADE TO BE COMPACTED TO 95% AS PER ASTM D1557.

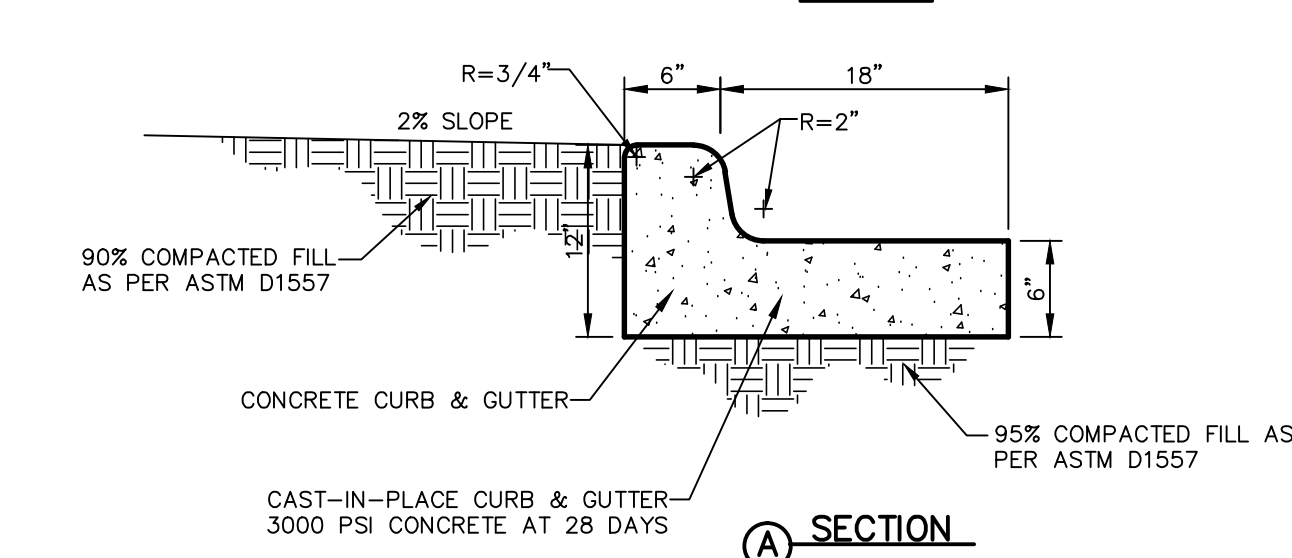
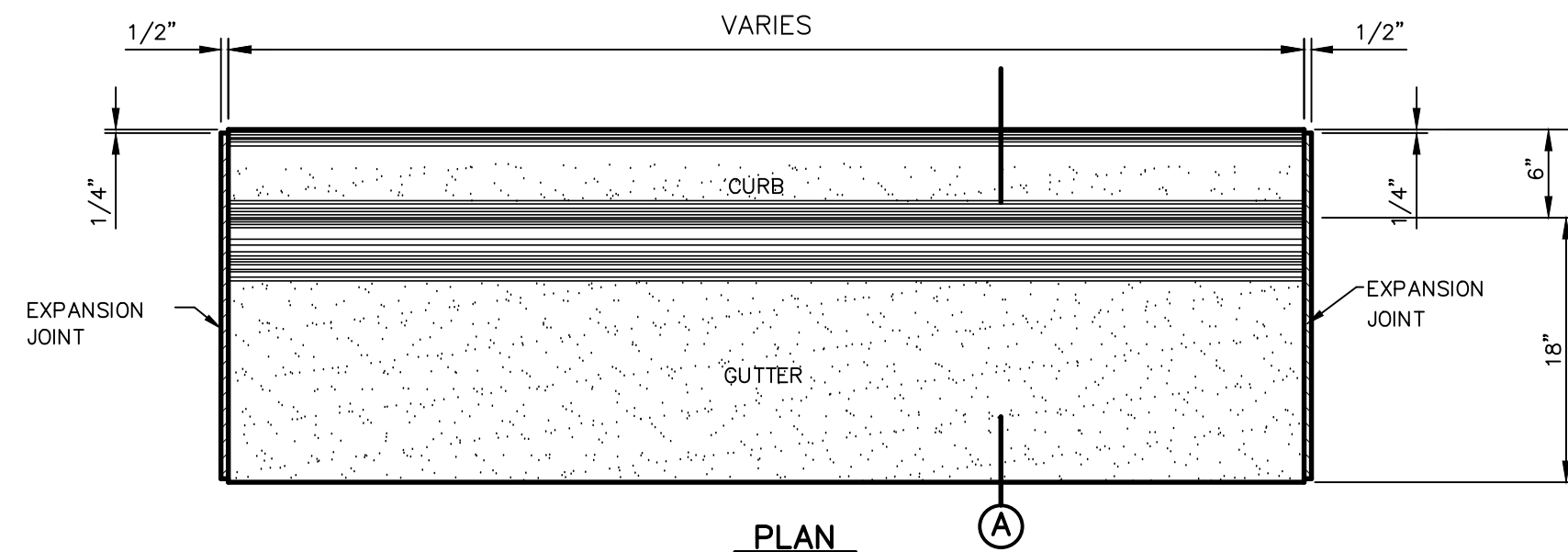
1 SECTION-SIDEWALK/SLAB
SCALE: N.T.S.



6 6" TO 4" CURB TRANSITION DETAIL
SCALE: N.T.S.

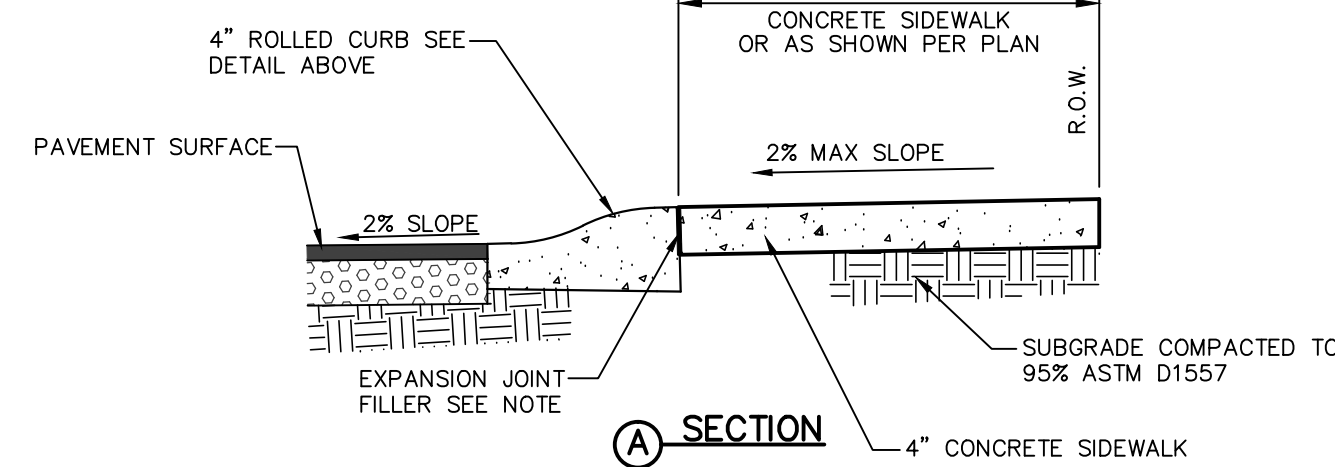
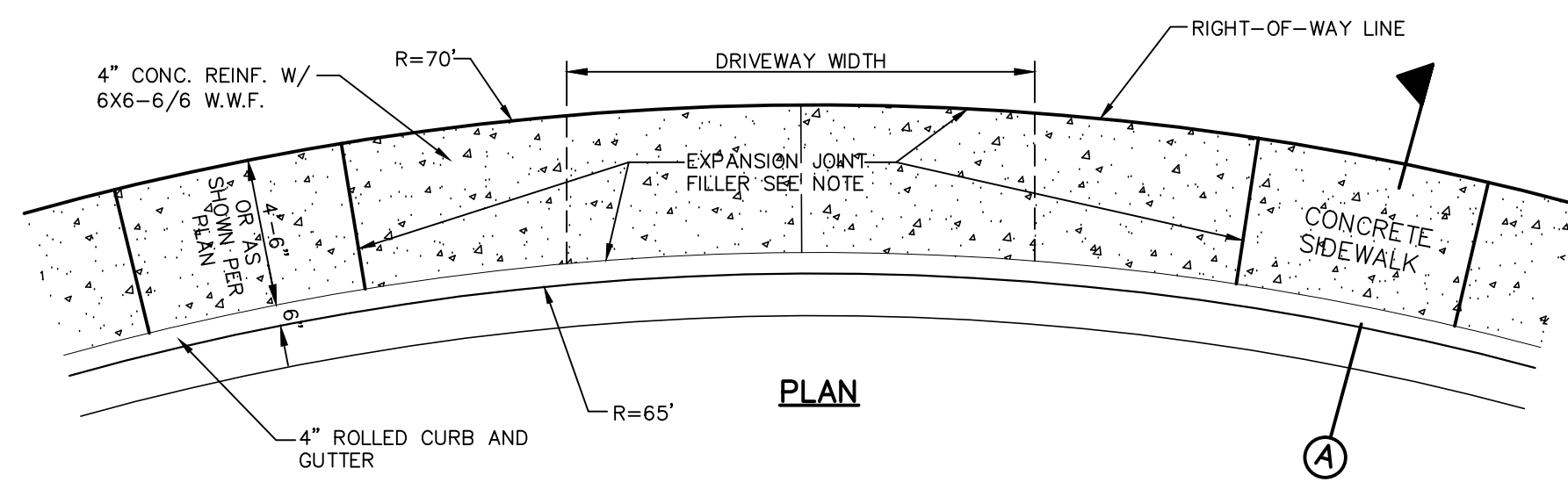


9 SIDEWALK ABUTTING PARK SITE
SCALE: N.T.S.

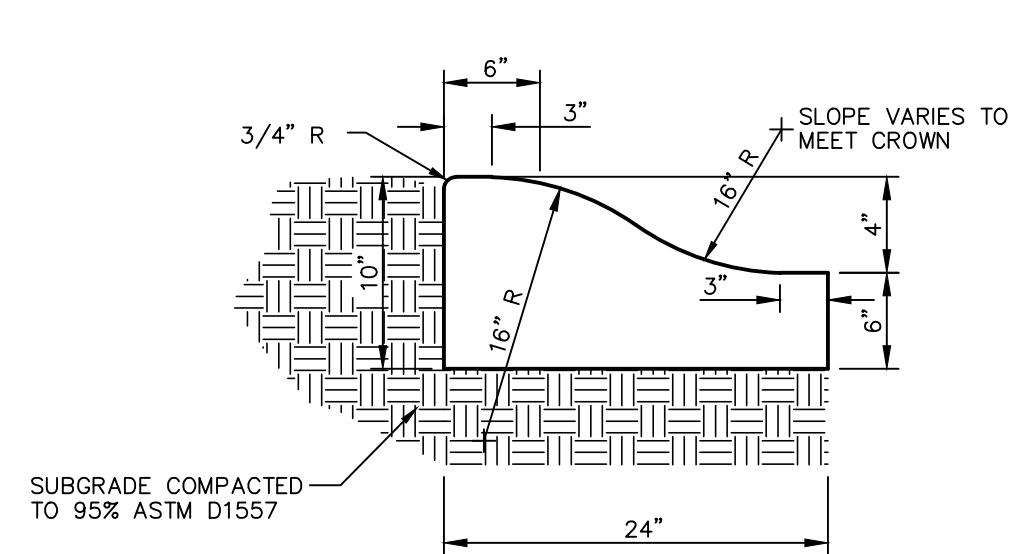


- NOTES:**
1. CONCRETE CURB, GUTTER AND RETURNS SHALL BE 3,000 P.S.I. MIN. AT 28 DAYS.
 2. DUMMY JOINT REQUIRED AT 10' O.C. FOR CURB & GUTTER, AND 5' O.C. FOR SIDEWALK
 3. 1/2" PREFORMED BITUMINOUS EXPANSION JOINT (AASHTO M-33) IS REQUIRED FOR ALL CURB RETURNS. TRIM BITUMINOUS MATERIAL 1/4" LESS THAN NEAT CURB AND GUTTER DIMENSION.
 4. SUBGRADE UNDER CURBS MUST BE FORMED AND COMPACTED TO 95% ASTM D1557
 5. EXPANSION JOINTS REQUIRED AT 50' O.C. WHEN FORMING FOR CURBS.

2 CURB & GUTTER DETAIL
SCALE: 1"=1'-0"

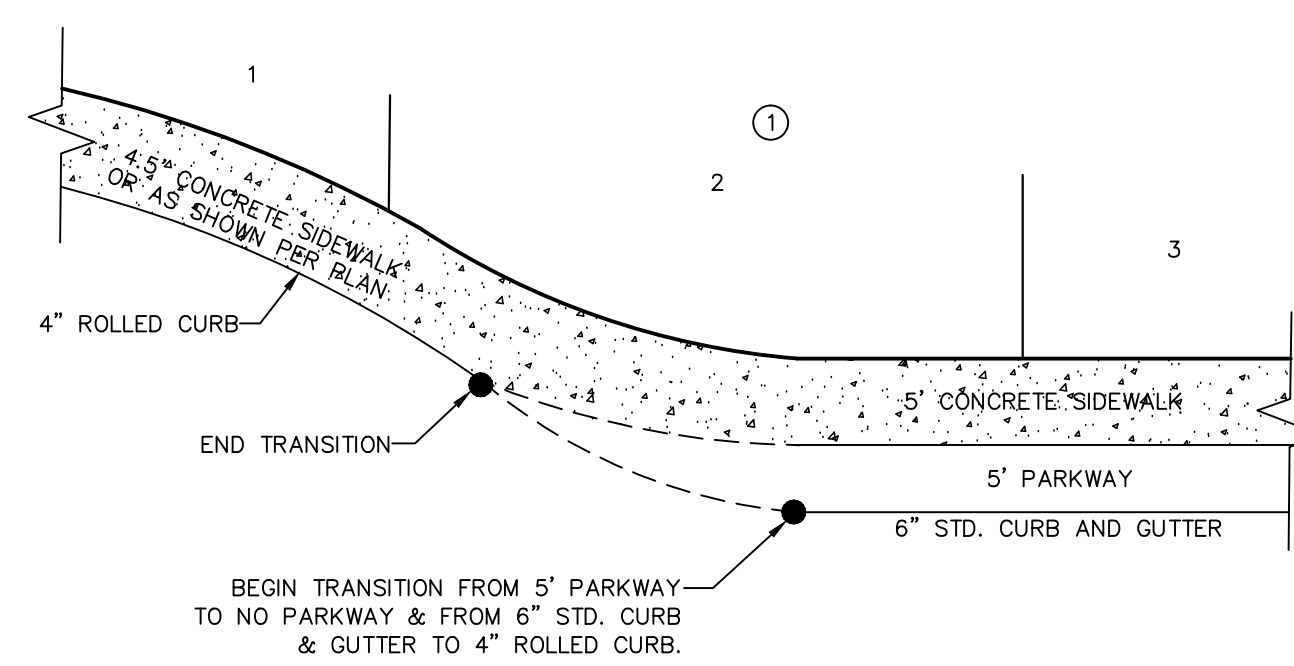


7 HEEL/DRIVEWAY DETAIL
SCALE: N.T.S.

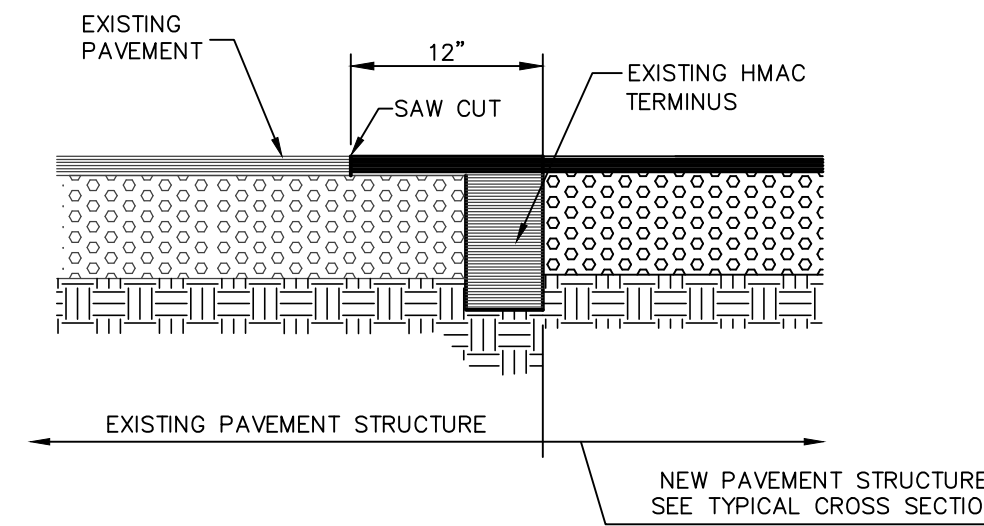


1. CONCRETE TO BE 3000 PSI MIN. AT 28 DAYS.
2. DUMMY JOINTS REQUIRED AT 10' O.C. FOR HEADERS AND 5' O.C. FOR SIDEWALK
3. EXPANSION MATERIAL REQUIRED AT CURB RETURNS WITH 1/2" PREFORMED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.
4. EXPANSION JOINTS REQUIRED AT 50' O.C. WHEN FORMING FOR HEADERS.
5. EXPANSION JOINTS REQUIRED FOR SIDEWALK AT 20' O.C.
6. * FOR CUL-DE-SAC AND HEEL ONLY.

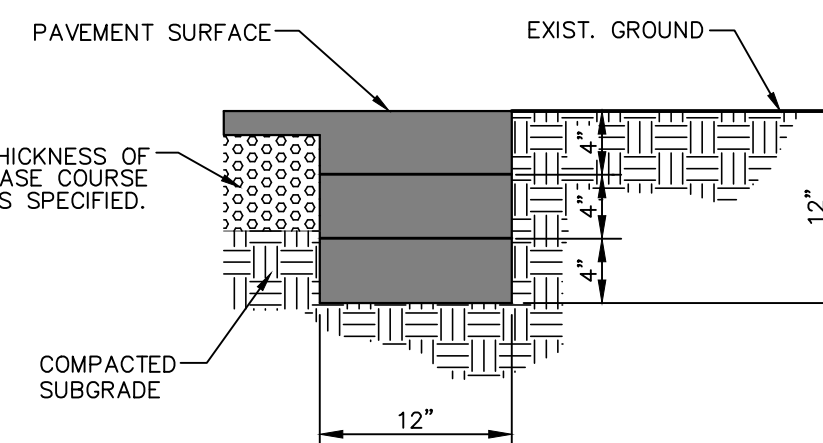
10 4" CONCRETE ROLLED CURB DETAIL
SCALE: 1"=1'-0"



11 TYPICAL HEEL/SIDEWALK TRANSITION
SCALE: N.T.S.

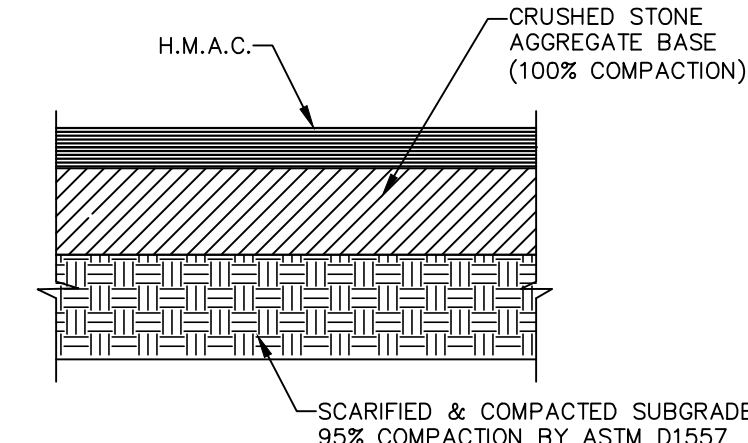


3 TYPICAL PAVEMENT JOINT SECTION
SCALE: N.T.S.



NOTE :
TERNIUS MUST BE CONSTRUCTED IN 4" LIFTS.
FINAL LIFT MUST BE PLACED WITH FINAL PAVEMENT COURSE.

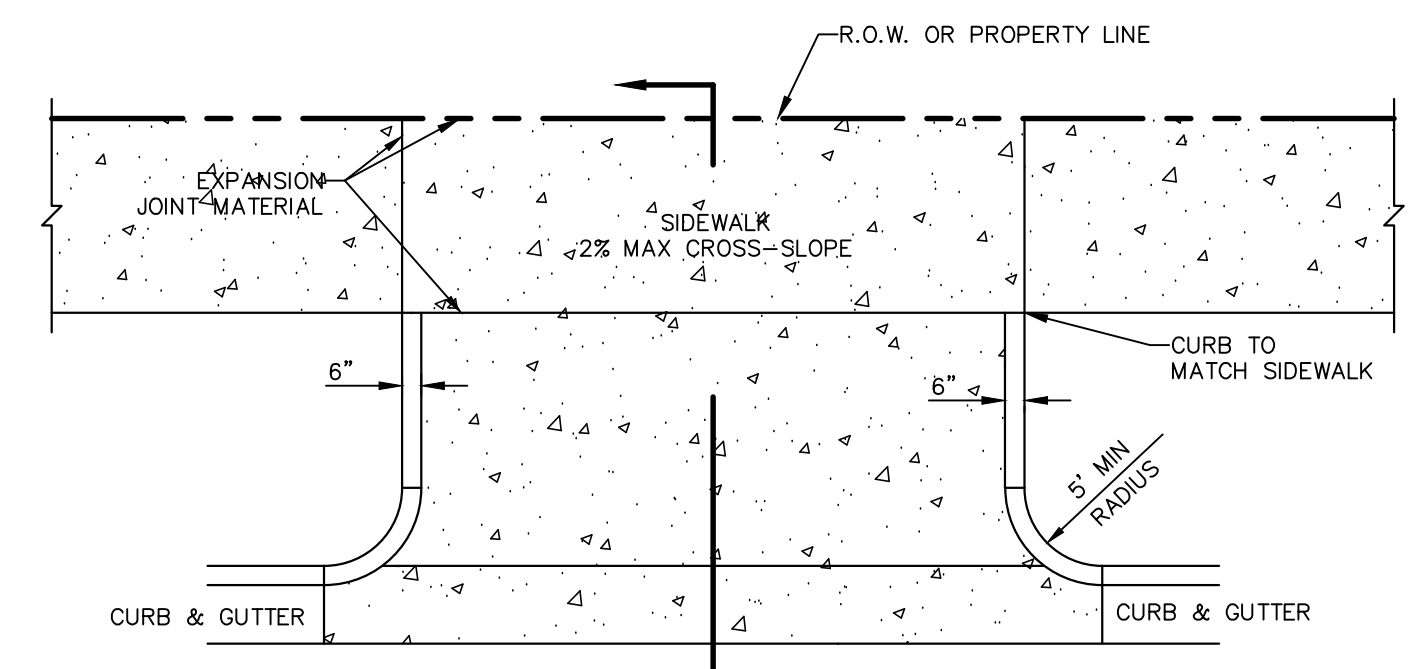
4 TERNIUS OF STREET
SCALE: 1"=1'-0"



PAVEMENT SECTION NOTES:

1. SUBGRADE TO BE COMPACTED TO 95% OF MAXIMUM DENSITY AS PER ASTM D-1557.
2. MINIMUM PAVEMENT DESIGN DETAILS ARE SHOWN, ACTUAL PAVEMENT DESIGN WILL BE DETERMINED BY CBR.
3. STREET IMPROVEMENTS (FLEXIBLE PAVEMENT DESIGN STRUCTURE) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT CITY OF EL PASO PAVING CONSTRUCTION DETAILS AND STANDARD SPECIFICATIONS. CBR @ EVERY 500' RESULTS TO BE SUBMITTED TO THE CITY OF EL PASO FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF PAVEMENT. THE CBR RESULTS WILL DICTATE THE REQUIRED THICKNESS OF THE PAVEMENT STRUCTURE BASED ON CITY OF EL PASO DESIGN STANDARDS. THE DEVELOPER SHALL PLACE THE HIGHER VALUE OF PAVEMENT STRUCTURE BASED ON THE CBR RESULTS OR THE MINIMUM PAVEMENT THICKNESS AS SHOWN ON THE CITY OF EL PASO DESIGN STANDARDS.

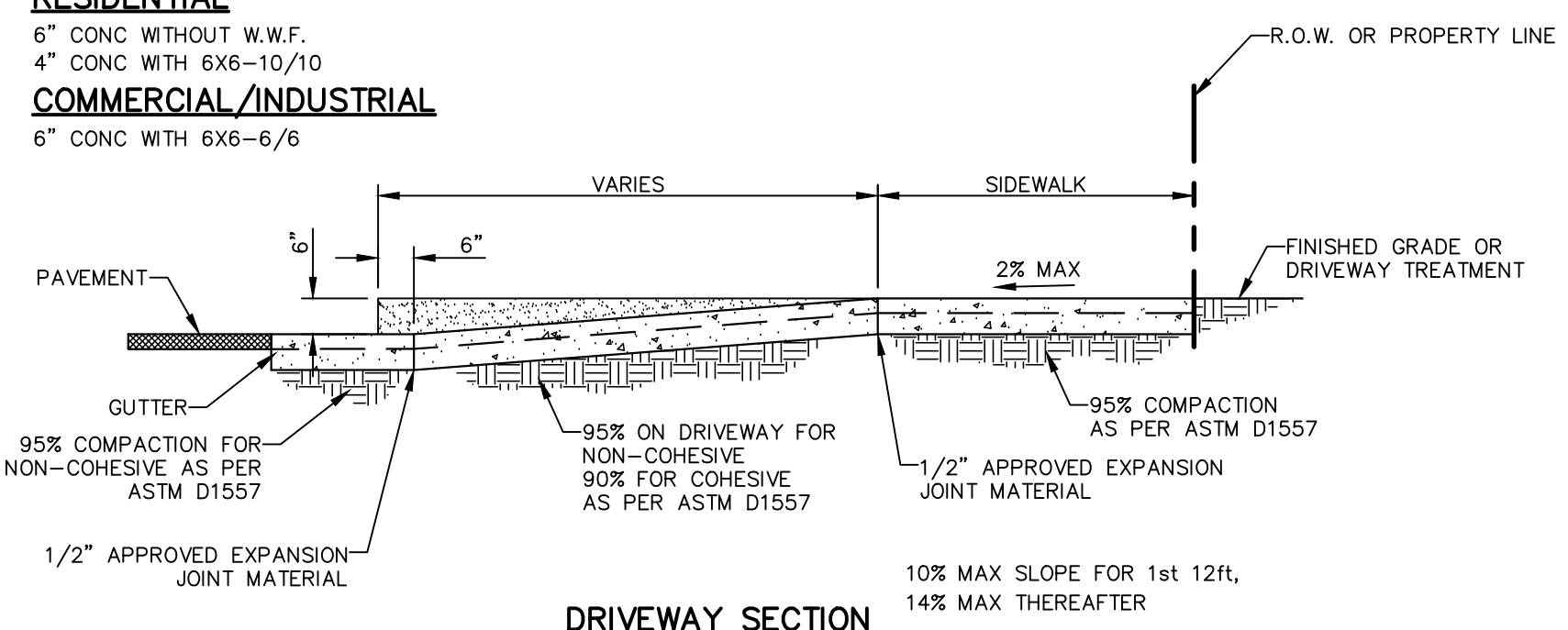
5 TYPICAL PAVEMENT SECTION
SCALE: N.T.S.



DRIVEWAY WIDTH	MIN	MAX
COMMERCIAL/INDUSTRIAL	24'	35'
RESIDENTIAL (SINGLE FAMILY 60' LOTS)	10'	20'
LESS THAN 60' LOTS, DUPLEX AND TOWN HOMES (REFER TO PLATE 6-16)	15'	25'

RESIDENTIAL
6" CONC WITHOUT W.W.F.
4" CONC WITH 6X6-10/10

COMMERCIAL/INDUSTRIAL
6" CONC WITH 6X6-6/6



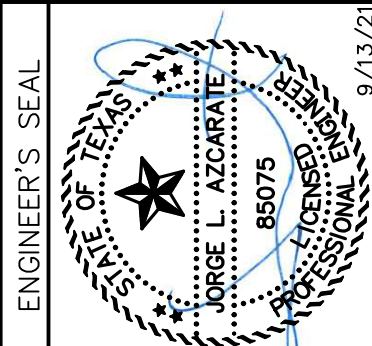
8 CONCRETE APRON FOR DRIVEWAYS/ALLEYS
SCALE: N.T.S.



Oscar Villalobos 09/22/2021
BY DATE

REFERENCES - BENCHMARKS
CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD., S08R4331" A DISTANCE OF 487.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)

813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232
www.ceagroup.net
TEXAS REGISTERED ENGINEERING FIRM F-4564

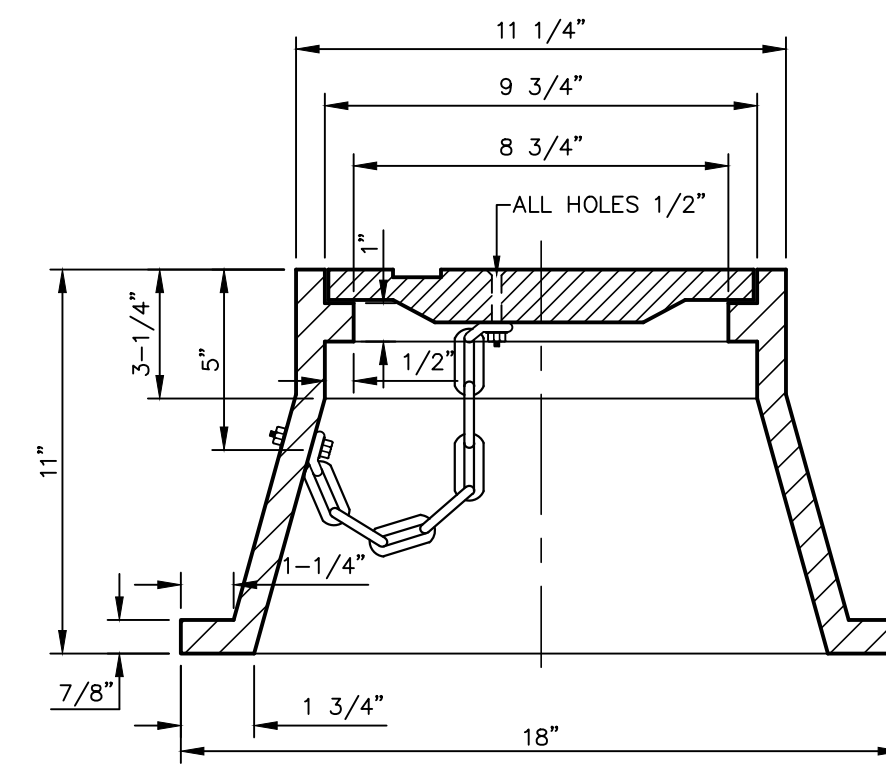


SCALE: AS SHOWN
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A
DATE: SEPTEMBER 2021
DESIGN BY: G.J.M.
DRAWN BY: E.Z.
CHKD. BY: F.Z.
APPVD. BY: J.L.A.
JOB No.: 2000-228

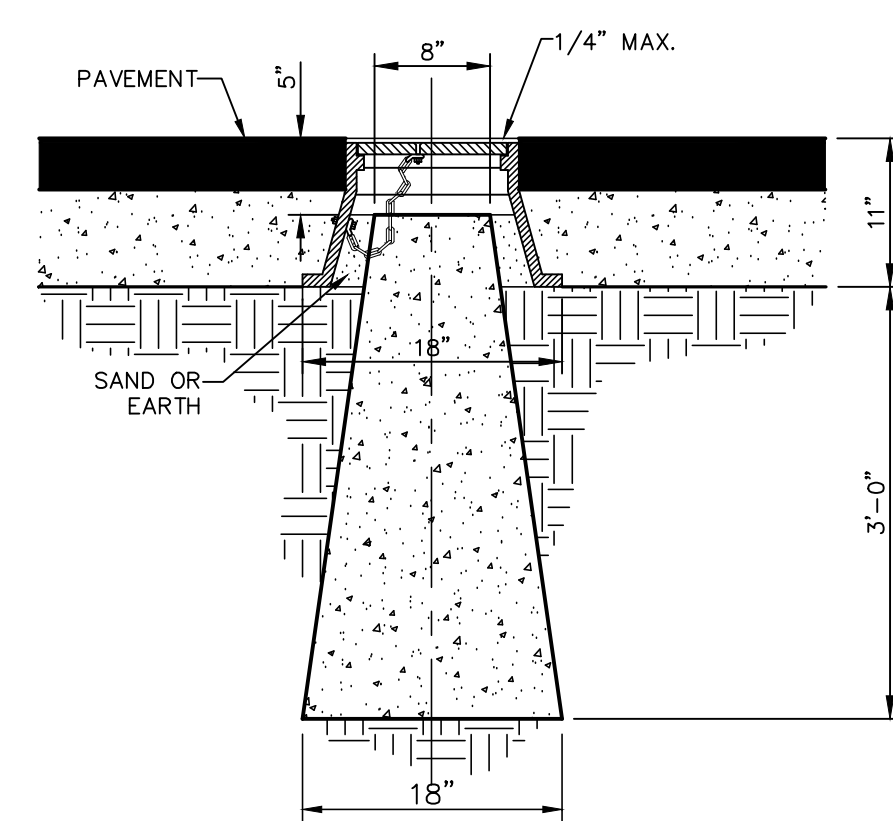
PROJECT TITLE
TRES SUEÑOS UNIT TWENTY TWO
REPLAT "A"
SUBDIVISION IMPROVEMENTS

SHEET TITLE
STANDARD
DETAILS
(SHEET 1 OF 3)
SHEET NO.

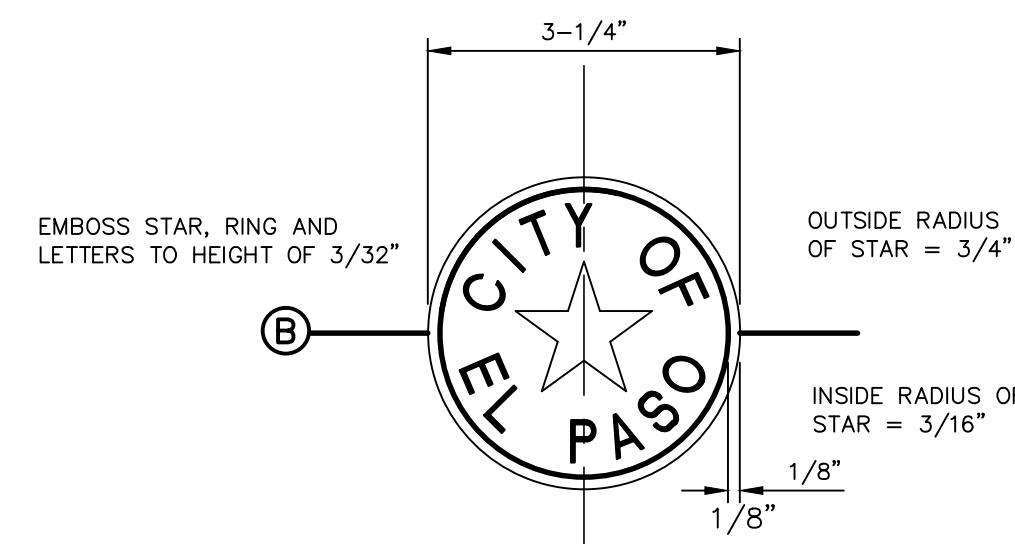
C9.1



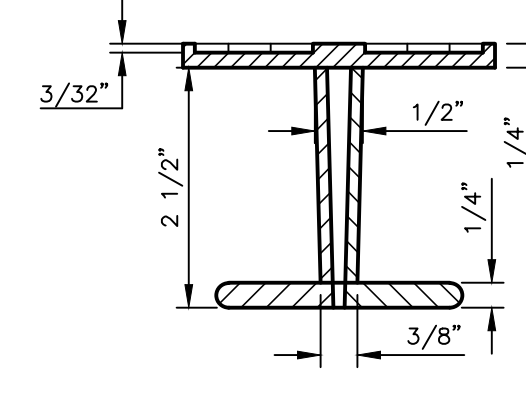
FRAME SECTION



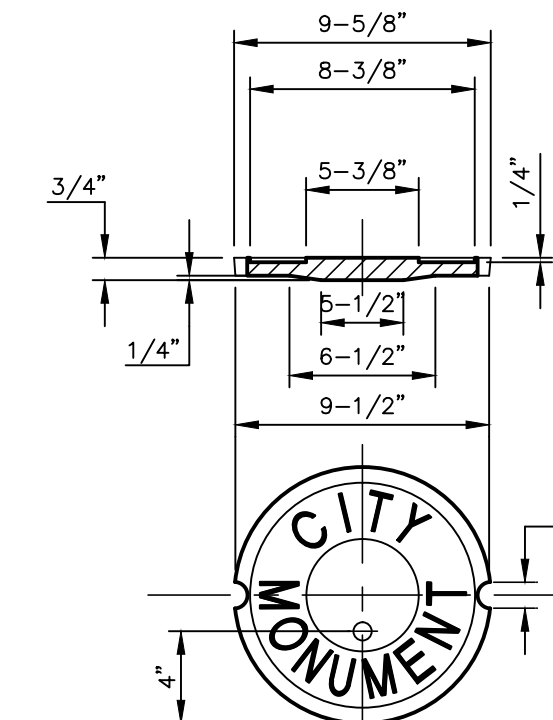
NO FORMS REQUIRED.
CONCRETE TO BE
POURED IN PLACE
3000 P.S.I. CONC.



BRONZE MONUMENT CAP



SECTION



COVER

1 CITY SURVEY MONUMENT DETAILS
SCALE: N.T.S.

PROPOSED MONUMENT LOCATIONS

- A. 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 THE LINE BETWEEN TWO ADJACENT MONUMENTS.
- B. EACH MONUMENT SHALL BE WITHIN LINE OF SIGHT OF ANOTHER MONUMENT.
- C. MONUMENTS SHALL BE NO FARTHER THAN 2000 FEET APART.
- D. AT LEAST ONE (1) MONUMENT SHALL BE PLACED ON EACH HORIZONTAL CURVE (PI) OF THE TANGENTS LEADING INTO THE CURVE FALLS OUTSIDE THE CURB LINE.
- E. NO FEWER THAN TWO MONUMENTS SHALL BE PLACED IN ONE (1) STREET SUBDIVISIONS.



Oscar Villalobos

09/22/2021

BY

DATE

ROCK WALLS

MATERIALS: STONE FOR ROCK WALLS SHALL CONSIST OF QUARRIED LIMESTONE AS NEARLY UNIFORM IN SECTION AS IS PRACTICABLE. FIELD STONE OR SALVAGED STONE FROM ROCK WALLS SHALL BE USED ONLY WHERE DIRECTED BY THE ENGINEER. THE STONE SHALL BE DENSE, RESISTANT TO THE ACTION OF AIR AND WATER, CLEAN OF OLD MORTAR AND SUITABLE IN ALL RESPECTS FOR THE PURPOSE INTENDED.

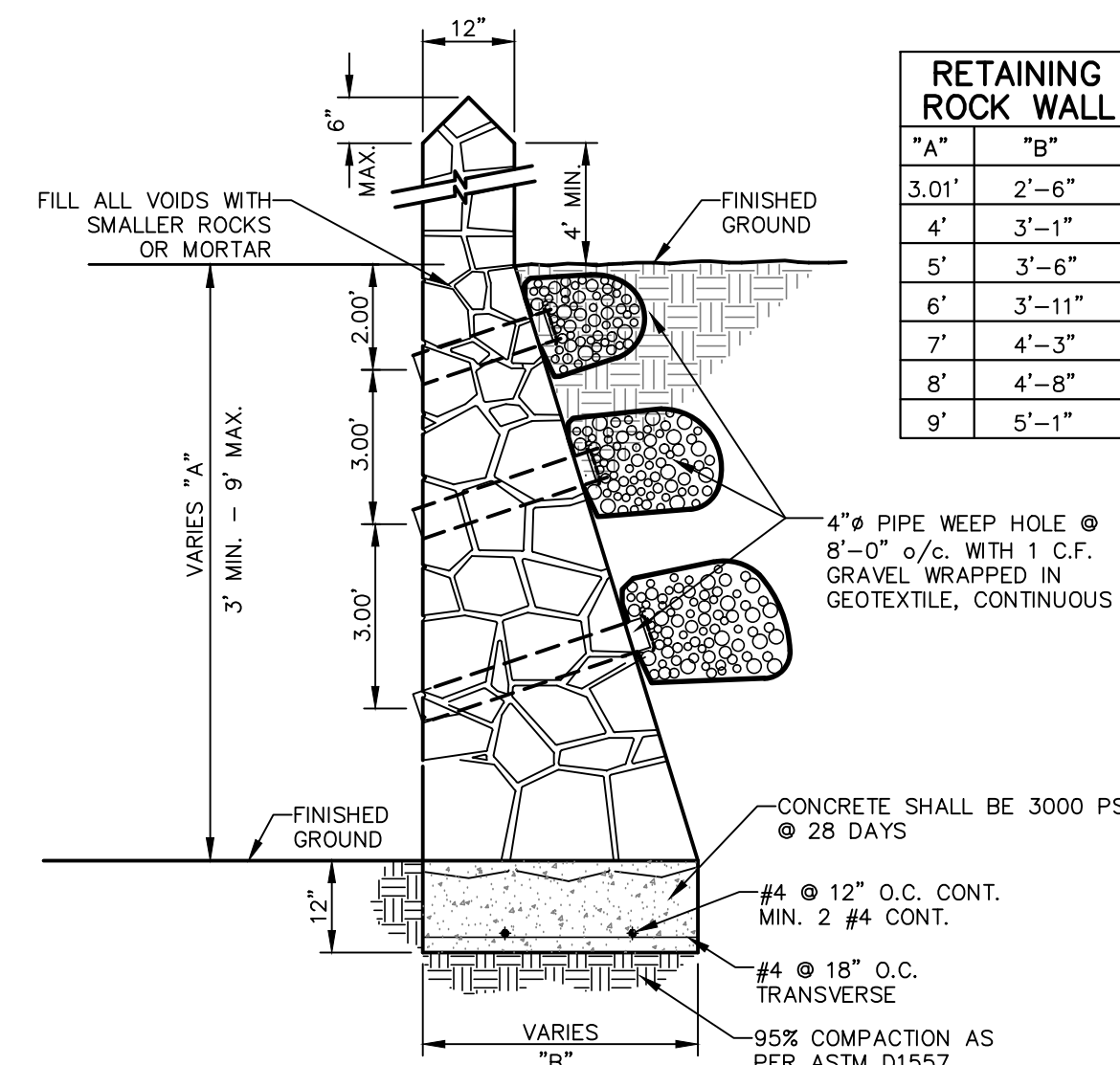
MORTAR FOR THE ROCK WALLS SHALL CONSIST BY VOLUMES OF ONE (1) PART PORTLAND CEMENT, ONE-QUARTER TO ONE-HALF (1/4 TO 1/2) PART HYDRATED LIME, AND THREE (3) PARTS CLEAN, HARD, DURABLE SAND (2 1/4 TO 3 TIMES THE SUM OF THE VOLUMES OF CEMENT AND LIME COMBINED. SEE CITY BUILDING CODE PP. 14-3 AND 14-4). MORTAR SHALL BE TYPE S, ASTM SPECIFICATION C270-73. COMPRESSIVE STRENGTH = 1800 P.S.I. (28 DAYS). CONCRETE FOR THE FOUNDATION SHALL BE CLASS "A" (3000 P.S.I.). REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60. IF ROCK WALL IS FREQUENTLY EXPOSED TO WATER, LIME SHALL NOT BE USED AND THE PORTIONS SHALL BE ONE PART PORTLAND CEMENT AND THREE PARTS SAND.

CONSTRUCTION METHODS: PRIOR TO PLACING THE CONCRETE FOUNDATION, THE EXCAVATION FOR THE ROCK WALLS SHALL BE MADE TO THE PROPER SECTION, AND, IF CONSIDERED NECESSARY BY THE ENGINEER, THE BOTTOM OF EXCAVATION SHALL BE HAND-TAMPED AND SPRINKLED. THE EXCAVATED AREA FOR ROCK WALLS SHALL BE MOIST WHEN THE CONCRETE IS PLACED. REINFORCING STEEL SHALL BE PLACED CONTINUOUSLY AS SHOWN ON THE PLANS AND PROPERLY SUPPORTED THROUGHOUT THE PLACEMENT OF CONCRETE. THE SURFACE OF THE CONCRETE SHALL NOT BE TROWELED. THE CONCRETE SHALL BE CURED A MINIMUM OF 24 HOURS BEFORE ANY STONE OR MORTAR IS PLACED ON THE FOUNDATION. THE CONCRETE SHALL BE CURED A MINIMUM OF 48 HOURS BEFORE MORE THAN 300 POUNDS PER SQUARE FOOT OF STONE AND MORTAR IS PLACED ON THE FOUNDATION. CONTRACTOR SHALL EMBED THE FIRST FOUR INCHES OF THE FIRST LAYER INTO THE FRESH CONCRETE OF THE FOOTING.

STONE SHALL BE SELECTED AS TO SIZE AND SHAPE TO SECURE FAIRLY LARGE FLAT-SURFACED STONE WHICH MAY BE ERECTED WITH TRUE AND EVEN SURFACE FACES AND A MINIMUM OF EXPOSED MORTAR. ALL STONES SHALL BE THOROUGHLY CLEANED, WETTED, HAND-PLACED AND EMBEDDED IN MORTAR SO THAT NO STONES SHALL TOUCH EACH OTHER OR THE CONCRETE FOUNDATION BUT SHALL BE FIRMLY BOUND TOGETHER WITH MORTAR. THE FINISHED SURFACE SHALL PRESENT A NEAT, CLEAN, WORKMANLIKE AND TRUE-TO-LINE APPEARANCE. THE INTERIOR OF THE ROCK WALL SHALL BE COMPLETELY FILLED WITH SPALLS AND PIECES OF THE SPECIFIED STONE, COMPLETELY EMBEDDED AND SURROUNDED BY MORTAR WITH NO VOIDS.

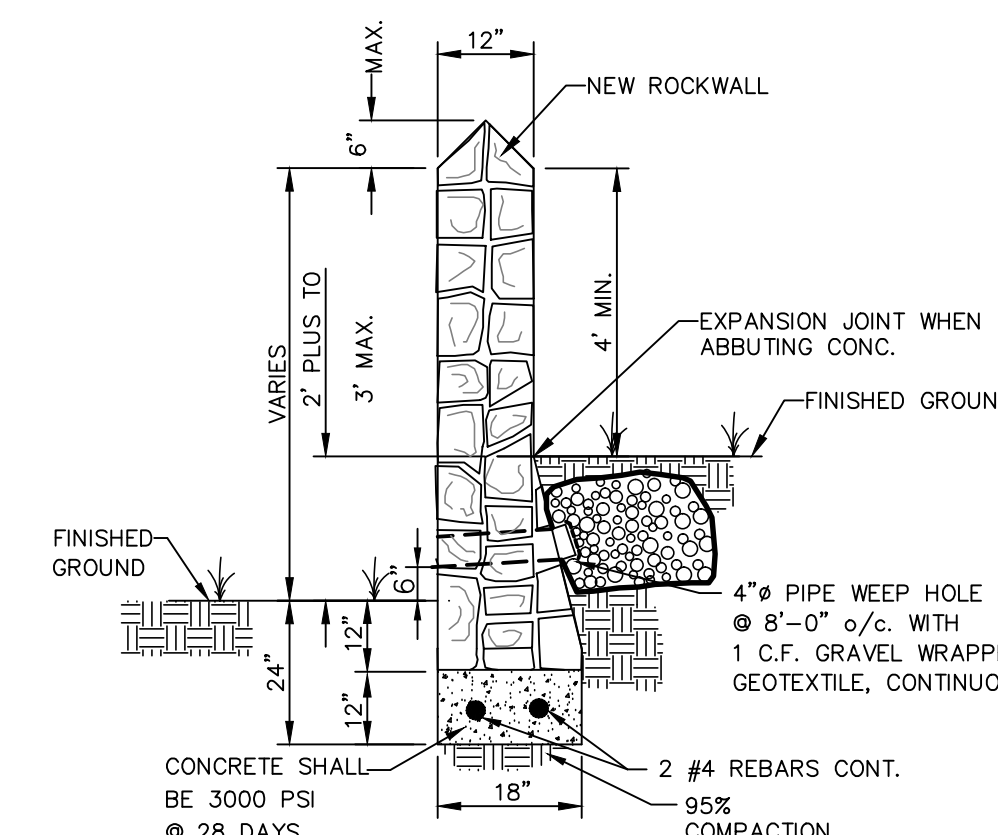
THE ERECTION OF THE ROCK WALL SHALL NOT BE MORE THAN THREE FEET IN HEIGHT FOR EVERY 24-HOUR PERIOD TO ALLOW FOR THE LOWER PORTIONS TO BECOME SUFFICIENTLY SET. ALL STONES SHALL BE THOROUGHLY WET BEFORE BEING PLACED IN FRESH MORTAR. THE LAST LAYER OF ROCK PRIOR TO BREAK OF CONSTRUCTION PHASE SHALL NOT HAVE ANY MORTAR ON TOP. FRESH MORTAR MUST BE USED FOR CONTINUATION OF WORK FOLLOWING ERECTION BREAK.

WEEP HOLES SHALL BE PLACED ON THE ROCK WALL AS SHOWN ON THE PLANS. THE WEEP HOLES SHALL BE NOT MORE THAN TEN FEET APART ON-CENTER. THE WEEP HOLES SHALL CONSIST OF FOUR-INCH VITRIFIED CLAY PIPE, OR OTHER PIPE AS APPROVED BY THE ENGINEER, NEATLY CUT TO THE EXPOSED SURFACE OF THE ROCK WALL. NO LESS THAN ONE CUBIC FOOT OF ONE-INCH TO 3/4-INCH OF GRADED GRAVEL SHALL BE PLACED AT THE INLET OF EACH WEEP HOLE AS SHOWN ON THE PLANS.

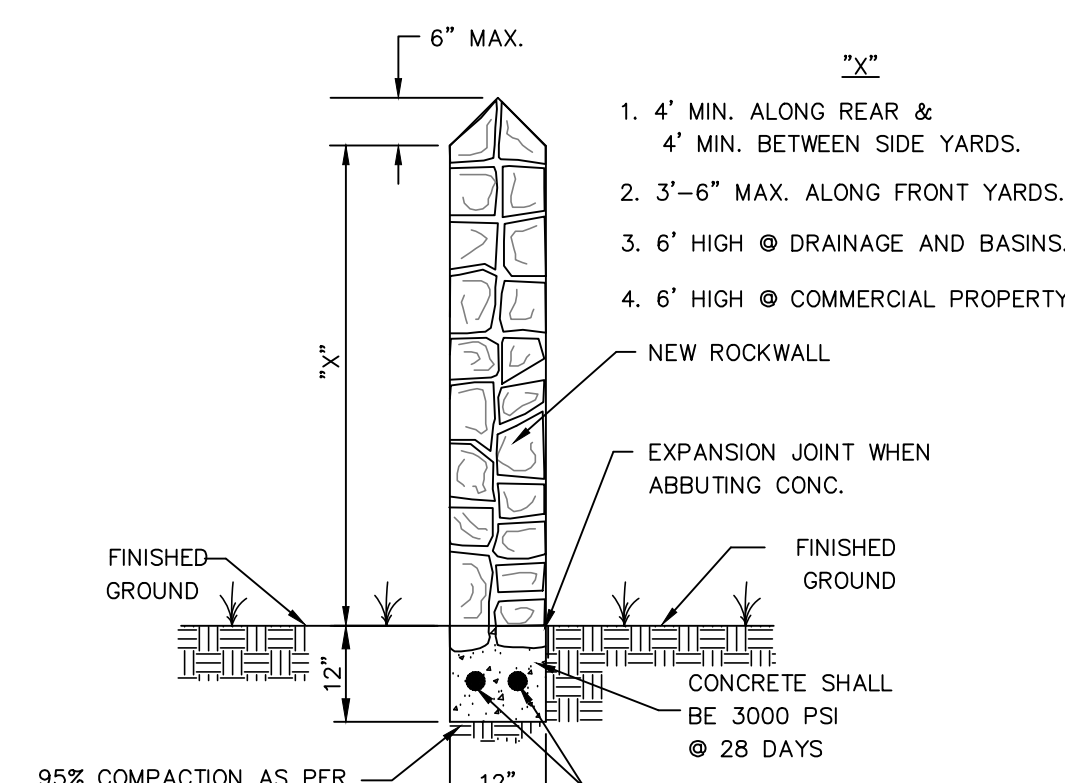


RETAINING WALL SECTION (3' MIN. TO 9' MAX.)

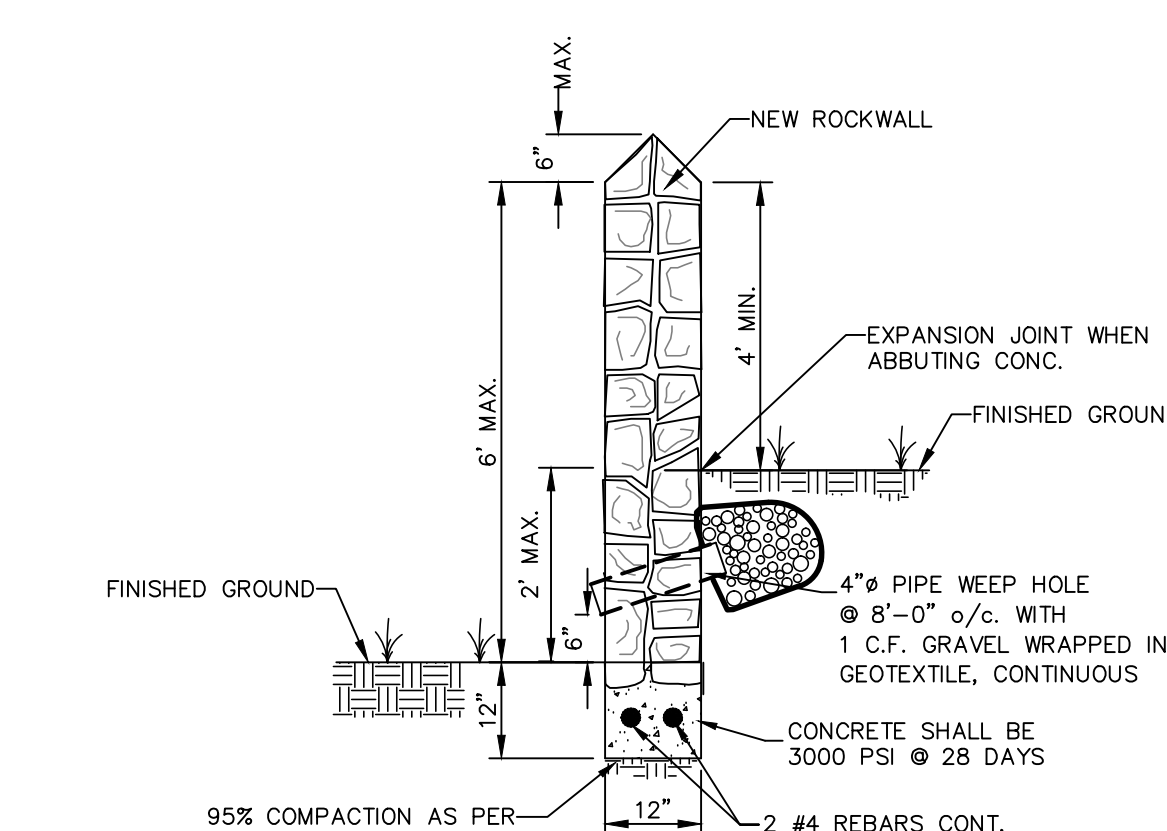
RETAINING ROCK WALL	
"A"	"B"
3.01'	2'-6"
4'	3'-1"
5'	3'-6"
6'	3'-11"
7'	4'-3"
8'	4'-6"
9'	5'-1"



RETAINING WALL SECTION (2' PLUS TO 3' MAX.)



GARDEN WALL SECTION



GARDEN WALL SECTION (2' MAX.)

2 TYPICAL ROCKWALL DETAILS
SCALE: 1/2" = 1'-0"

ROCK WALL NOTES

1. STONE FOR ROCKWALL SHALL BE AS NEARLY UNIFORM IN SECTIONS AS IN PRACTICABLE THE STONE SHALL BE DENSE AND RESISTANT OF AIR AND WATER
2. MORTAR MUST BE TYPE "S" 1800 P.S.I. AS PER ASTM C270
3. MASONRY WALL OVER SIX (6) FEET IN HEIGHT AND THOSE USED FOR EARTH RETENTION OVER TWO (2) FEET MUST BE DESIGNED AS STRUCTURAL WALLS.
4. WALLS ADJACENT TO PONDING AREAS OR DRAINAGE DITCHES MAY BE CONSTRUCTED OF BRICK, ROCK, STONE OR CINDER BLOCK AND SHALL NOT BE LESS THAN SIX (6) FEET HIGH.
5. ROCKWALL MORTAR JOINTS MUST NOT EXCEED TWO (2) INCHES
6. PROVIDE ONE (1) INCH EXPANSION JOINTS AT EVERY 100 FEET
7. ALL STONE SHALL BE THOROUGHLY SOAKED BEFORE BEING PLACED
8. ALL STONE FOR ROCKWALLS SHALL BE FRACTURED QUARRIED ROCK OR ROUND ROCK, NO RIVER ROCK SHALL BE ALLOWED.
9. REINFORCING STEEL SHALL BE ASTM A615 GRADE 40.
10. ALLOWABLE SOIL BEARING PRESSURE = 2,500 PSI (MINIMUM)
11. BACKFILL MATERIALS SHALL CONSIST OF COARSE GRAINED, WELL-DRAINED SOILS (WITH NO CLAY CONTENT).
12. ALL THE RETAINING WALLS OVER 4' IN DEPTH SHALL BE BUILT BY DEVELOPER. REMAINING ROCKWALL TO BE BUILT BY BUILDER.

NOTE: BUILDER SHALL SUBMIT ROCKWALL AND RETAINING ROCKWALL COMPUTATIONS TO THE CITY OF EL PASO OR FOR APPROVAL, IF IN EXCESS OF THOSE SHOWN.

REFERENCES - BENCHMARKS

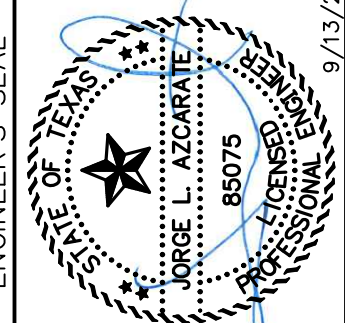
CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD., S08°43'31" A DISTANCE OF 467.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.

ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)

DATE	REVISIONS	BY

813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232
www.ceagroup.net

CEA GROUP
TEXAS REGISTERED ENGINEERING FIRM F-4564



SCALE: AS SHOWN

Horizontal: N/A
Vertical: N/A

Contour Interval: N/A

DATE: SEPTEMBER 2021

DESIGN BY: G.J.M.
DRAWN BY: E.Z.
CHKD. BY: F.Z.
APPVD. BY: J.L.A.

JOB No.: 2000-228

PROJECT TITLE

TRES SUEÑOS UNIT TWENTY TWO
REPLAT "A"
SUBDIVISION IMPROVEMENTS

SHEET TITLE

STANDARD
DETAILS

(SHEET 2 OF 3)
SHEET NO.

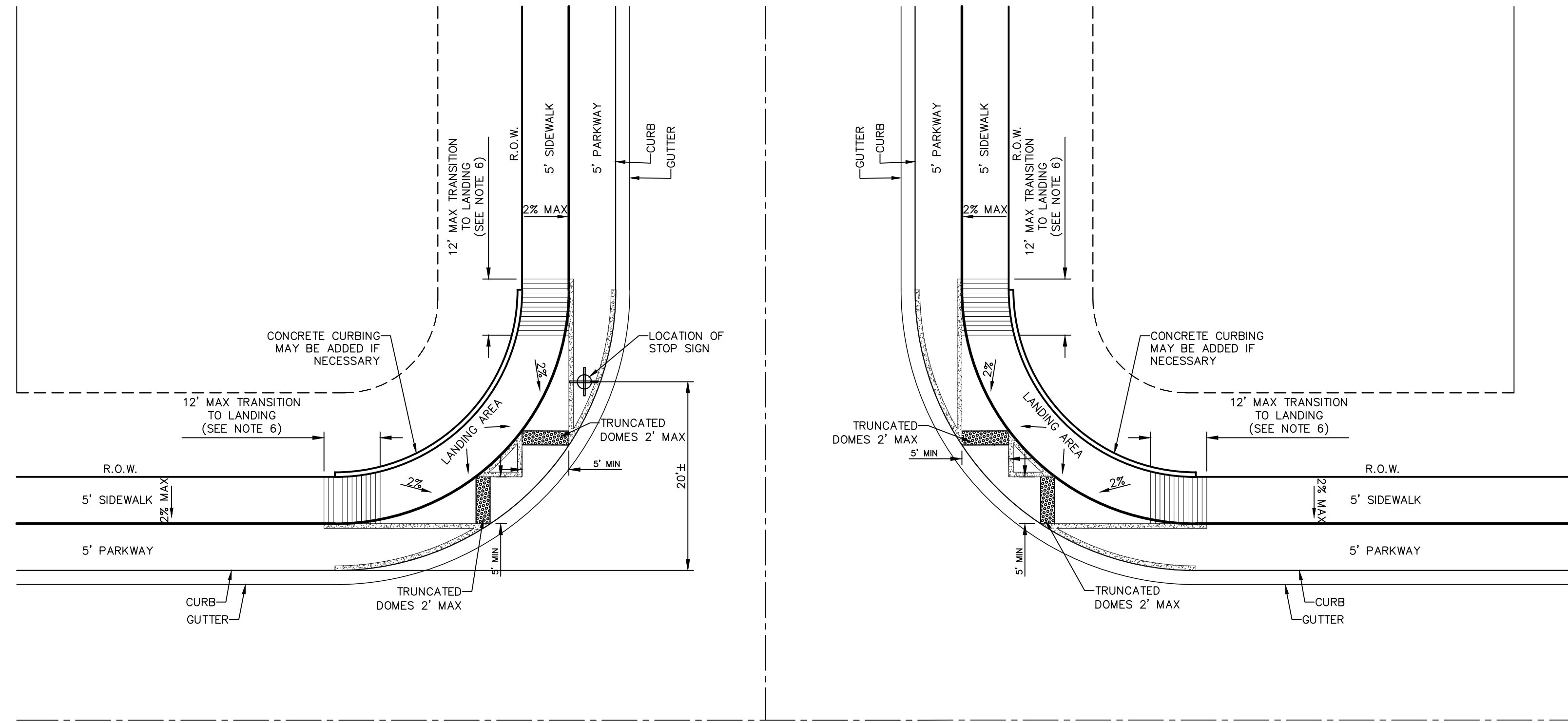
C9.2

LEGEND

DETECTABLE WARNING SURFACE SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A NOMINAL DIAMETER OF 0.9 IN. A NOMINAL HEIGHT OF 0.2 IN AND A CENTER TO CENTER NOMINAL SPACING OF 2.35 IN. AND SHALL NOT BE STAGGERED. THE SURFACE SHALL BE A MINIMUM OF 70% CONTRAST IN LIGHT REFLECTANCE BETWEEN THE DETECTABLE WARNING AND AN ADJOINING SURFACE, OR THE DETECTABLE WARNING SHALL BE "RED BRICK" COLOR, UNLESS OTHERWISE DIRECTED BY THE CITY OF EL PASO ROAD AND BRIDGE DEPARTMENT. THE MATERIAL USED TO PROVIDE VISUAL CONTRAST SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE. ADA TILE SHALL BE PROVIDED BY PLACING AND MIXING TINT IN THE PLASTIC CONCRETE USED FOR THE DETECTABLE WARNING SURFACE. NO PAINTING OF SURFACE SHALL BE PERMITTED.

HANDICAP RAMPS NOTES:

- ALL SLOPES ARE MAXIMUM ALLOWABLE. THE LEAST POSSIBLE SLOPE THAT WILL STILL DRAIN PROPERLY SHOULD BE USED. RAMP LENGTH OR GRADE OF APPROACH SIDEWALKS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
- THE MINIMUM SIDEWALK WIDTH IS 5'. WHERE A 5' SIDEWALK CAN NOT BE PROVIDED DUE TO SITE CONSTRAINTS, A MINIMUM 3' SIDEWALK WITH 5' X 5' PASSING AREAS AT INTERVALS NOT TO EXCEED 200 FT IS REQUIRED.
- LANDINGS SHALL BE 5' X 5' MINIMUM WITH A MAXIMUM 2% SLOPE IN ANY DIRECTION.
- MANEUVERING SPACE AT THE BOTTOM OF CURB RAMPS SHALL BE A MINIMUM OF 4' X 4' WHOLLY CONTAINED WITHIN THE CROSSWALK AND WHOLLY OUTSIDE THE PARALLEL VEHICULAR TRAVEL PATH.
- CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP. OTHERWISE, FLARED SIDES SHALL BE PROVIDED.
- ALL CONCRETE SIDEWALK SURFACES SHALL RECEIVE A LIGHT BROOM FINISH UNLESS NOTED OTHERWISE IN THE PLANS.
- RAMP TEXTURES MUST CONSIST OF TRUNCATED DOME SURFACES. TEXTURES ARE REQUIRED TO BE DETECTABLE UNDERFOOT. SURFACES THAT WOULD ALLOW WATER TO ACCUMULATE ARE PROHIBITED. REFER TO TRUNCATED DOME DETAIL.
- CROSSWALK DIMENSIONS, CROSSWALK MARKINGS AND STOP BAR LOCATIONS SHALL BE AS SHOWN ELSEWHERE IN THE PLANS. AT INTERSECTIONS WHERE CROSSWALK MARKINGS ARE NOT REQUIRED, RAMPS SHALL BE ALIGNED WITH THEORETICAL CROSSWALKS, OR AS DIRECTED BY THE ENGINEER.
- MAXIMUM ALLOWABLE CROSS SLOPE ON SIDEWALK AND RAMP SURFACES IS 2%.
- ADDITIONAL INFORMATION ON CURB RAMP LOCATION, DESIGN, LIGHT REFLECTIVE VALUE AND TEXTURE MAY BE FOUND IN THE CURRENT EDITION OF THE TEXAS ACCESSIBILITY STANDARDS (TAS) PREPARED AND ADMINISTERED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATION (TDLR).



1 TYPICAL DIRECTIONAL RAMP @ INTERSECTION
SCALE: 1" = 10'

NOTES:

- RAMPS MAY BE PLACED AS SUGGESTED, HOWEVER EXISTING LIGHT POLES, FIREHYDRANTS, DROP INLETS, ETC., MAY AFFECT PLACEMENT.
- THE CONCRETE SURFACE SHALL HAVE A ROUGH, NONSKID TYPE FINISH.
- CONSTRUCTION METHODS SHALL CONFORM WITH THE CITY OF EL PASO SPECIFICATIONS.
- ALL PARKING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH CURRENT CITY OF EL PASO.
- CONTRACTOR SHALL CONSTRUCT LANDING AREAS WITH POSITIVE SLOPE IN ALL DIRECTIONS TO ALLOW RUNOFF TO PROPERLY DRAIN.
- IF TRANSITION AREA IS GREATER THAN 5%, A LANDING SHALL BE PROVIDED BEFORE AND AFTER TRANSITION PER ADA STANDARDS.

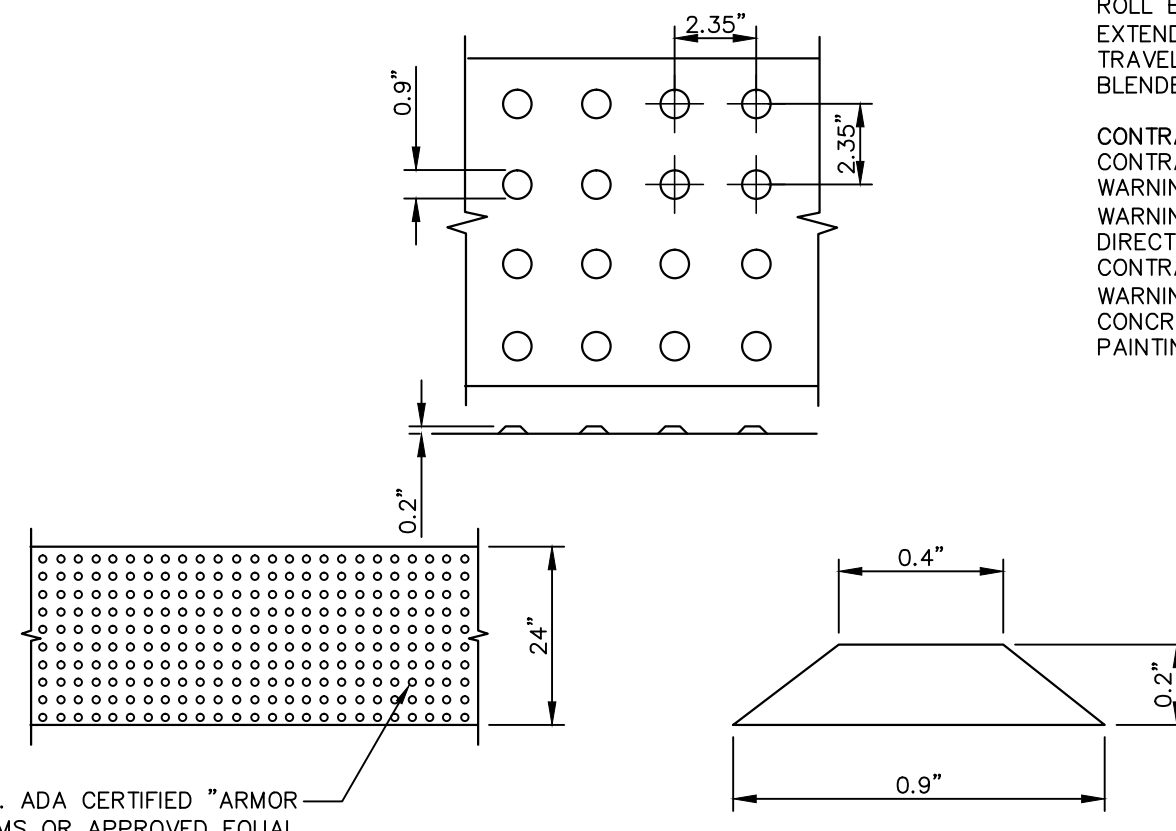


Horizontal: AS SHOWN
Vertical: N/A
Scale: N/A
Date: 09/22/2021
BY: Oscar Villalobos
DATE

DOMES SIZE AND SPACING. TRUNCATED DOMES SHALL HAVE A DIAMETER OF NOMINAL 0.9 INCHES (23 mm) AT THE BOTTOM, A DIAMETER OF 0.4 INCH (10 mm) AT THE TOP, A HEIGHT OF NOMINAL 0.2 INCHES (5 mm), AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCHES (60 mm) MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT.

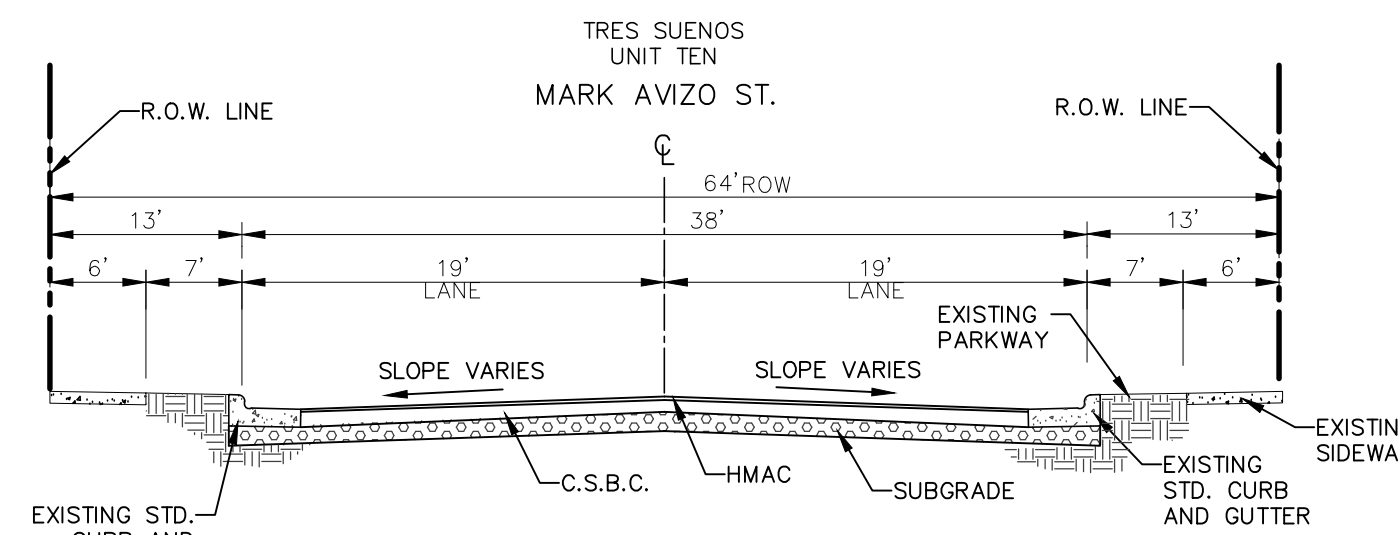
DOMES ALIGNMENT. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES. DETECTABLE WARNING SURFACES SHALL EXTEND 24 INCHES (610 mm) MINIMUM IN THE DIRECTION OF TRAVEL AND THE FULL WIDTH OF THE CURB RAMP, LANDING, OR BLENDED TRANSITION.

CONTRAST. THERE SHALL BE A MINIMUM OF 70 PERCENT CONTRAST IN LIGHT REFLECTANCE BETWEEN THE DETECTABLE WARNING AND AN ADJOINING SURFACE, OR THE DETECTABLE WARNING SHALL BE "RED BRICK" COLOR, UNLESS OTHERWISE DIRECTED BY THE OWNER. THE MATERIAL USED TO PROVIDE VISUAL CONTRAST SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE. ADA CERTIFIED "ARMOR-TILE" REQUIRED. CONCRETE-POURED TRUNCATED DOMES NOT ALLOWED. NO PAINTING OF SURFACE SHALL BE PERMITTED.

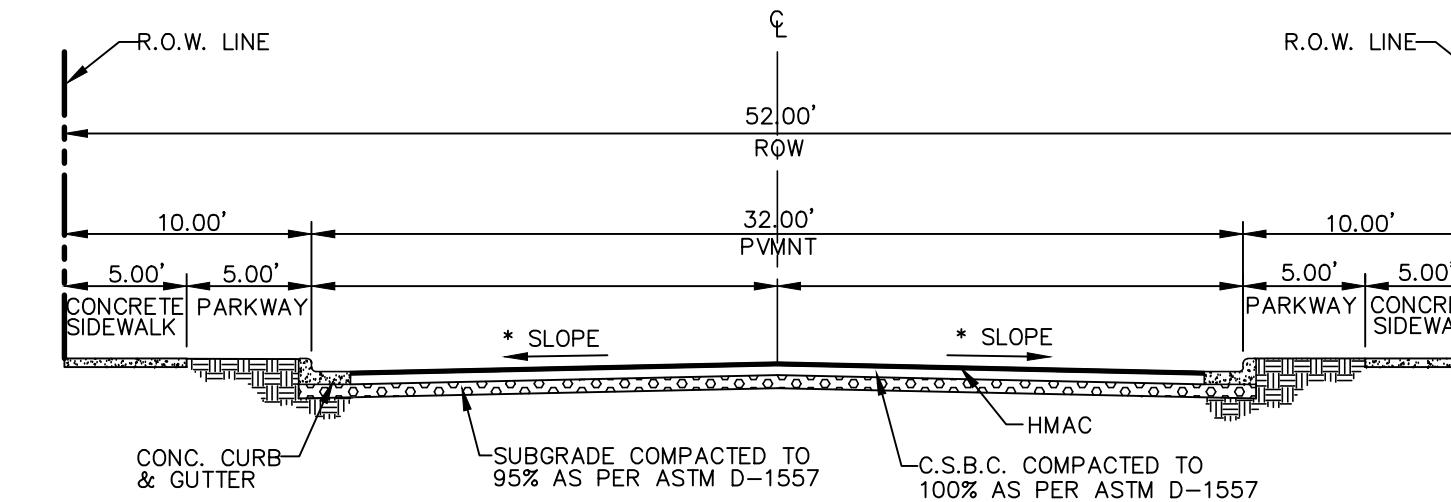


TRUNCATED DOME TILES, ADA CERTIFIED "ARMOR-TILE" TACTILE SYSTEMS OR APPROVED EQUAL

2 TRUNCATED DOME SIZE AND SPACING
SCALE: N.T.S.



3 EXISTING MARK AVIZO ST. SECTION
(COLLECTOR ARTERIAL) EXISTING
SCALE: N.T.S.

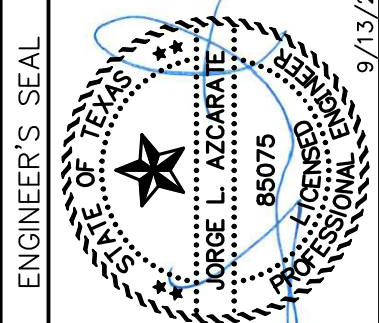


4 TYPICAL 52' ROW STREET SECTION DETAIL
(RESIDENTIAL SUBCOLLECTOR)
SCALE: N.T.S.

***CBR NOTE:**
STREET IMPROVEMENTS (FLEXIBLE PAVEMENT DESIGN STRUCTURE) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT CITY OF EL PASO PAVING CONSTRUCTION DETAILS AND STANDARD SPECIFICATIONS: CBR @ EVERY 500' RESULTS TO BE SUBMITTED TO THE CITY OF EL PASO FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF PAVEMENT. THE CBR RESULTS WILL DICTATE THE REQUIRED THICKNESS OF THE PAVEMENT STRUCTURE BASED ON CITY OF EL PASO DESIGN STANDARDS. THE DEVELOPER SHALL PLACE THE HIGHER VALUE OF PAVEMENT STRUCTURE BASED ON THE CBR RESULTS OR THE MINIMUM PAVEMENT THICKNESS AS SHOWN ON THE CITY OF EL PASO DESIGN STANDARDS.

REFERENCES - BENCHMARKS	CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD., 508'43.31" A DISTANCE OF 487.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
ELEVATION:	4014.90 (NAVD 88) (4005.40 CITY DATUM)
DATE	REVISIONS
BY	

813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232
www.ceagroup.net
TEXAS REGISTERED ENGINEERING FIRM F-4564

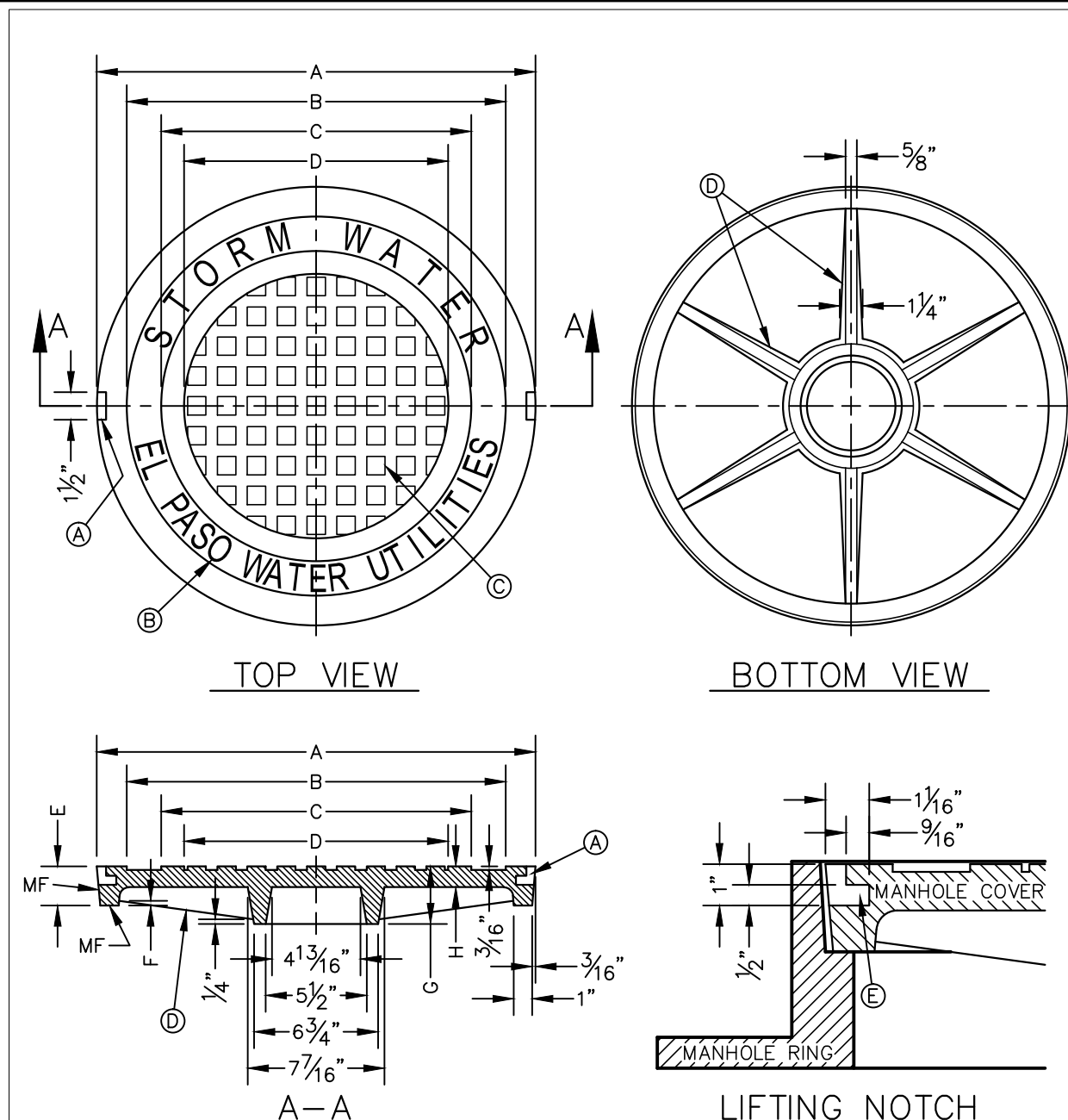


SCALE	AS SHOWN
Horizontal	N/A
Vertical	N/A
Contour Interval	N/A
DATE	SEPTEMBER 2021
DESIGN BY	G.J.M.
DRAWN BY	E.Z.
CHKD. BY	F.Z.
APPVD. BY	J.L.A.
JOB NO.	2000-228

PROJECT TITLE
TRES SUEÑOS UNIT TWENTY TWO
REPLAT "A"
SUBDIVISION IMPROVEMENTS

SHEET TITLE
STANDARD DETAILS
(SHEET 3 OF 3)
SHEET NO.

C9.3



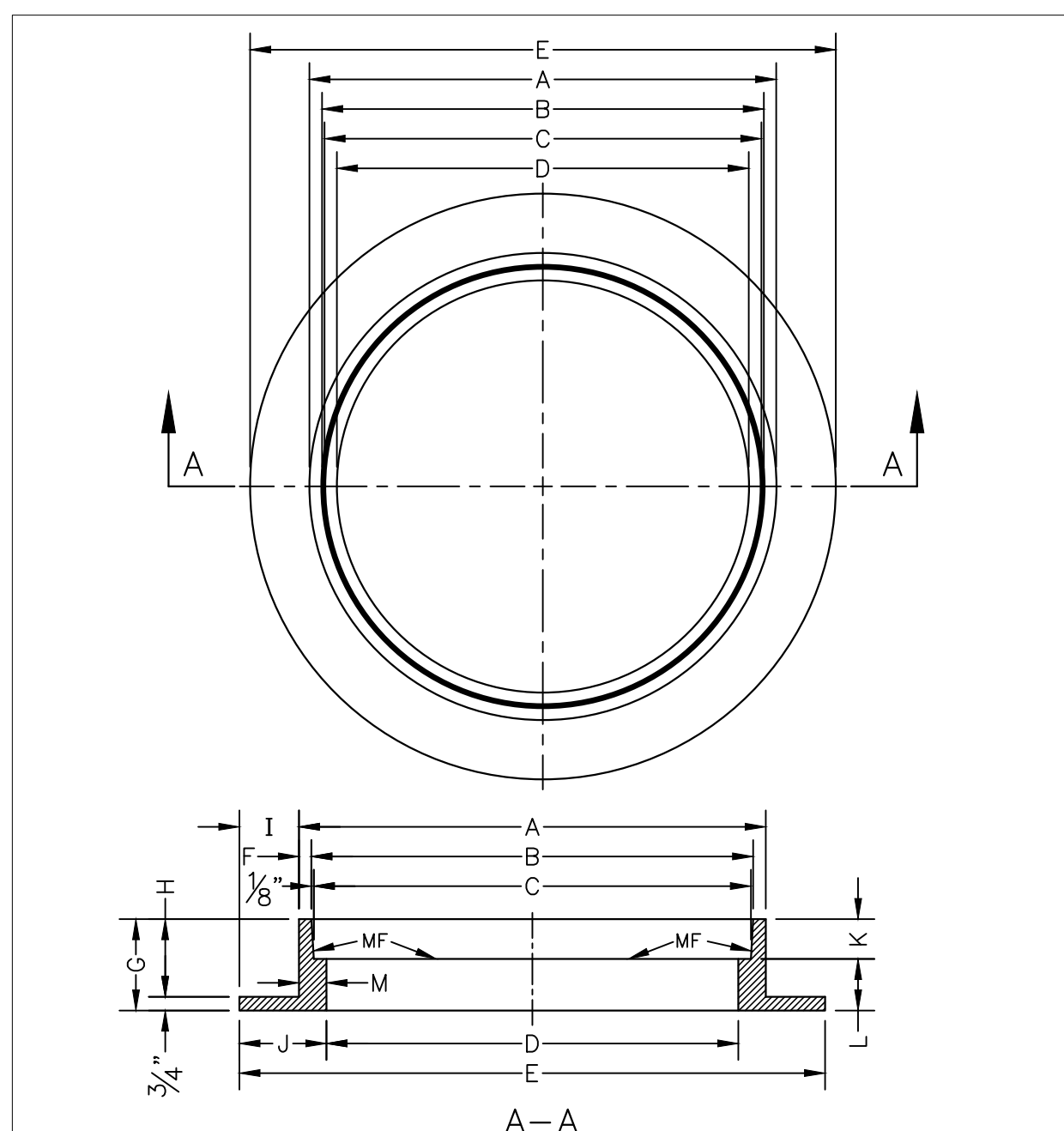
- GENERAL NOTES:**
1. MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
 3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
 4. AS-CAST DIMENSIONS MAY VARY $\frac{1}{16}$ " ± / PER FOOT (AASHTO M306-07).
 5. WEIGHT MAY VARY 5% ± (AASHTO M306-07).
 6. SHADED DIMENSIONS IN TABLE FOR REFERENCE ONLY. SOURCE: COUNTY OF EL PASO DESIGN STANDARDS FOR CONSTRUCTION, DETAIL 2-17.

- CONSTRUCTION KEY NOTES:**
- A. LIFTING NOTCH.
 - B. $\frac{3}{16}$ " RAISED LETTERING.
 - C. 1" SQUARES ($\frac{3}{16}$ " TALL) WITH $\frac{3}{16}$ " SPACE BETWEEN.
 - D. REINFORCING RIBS.
 - E. SLOT.

MANHOLE COVER	MANHOLE - ALL TYPES	MANHOLE TYPE 48"	MANHOLE TYPE 72"
A	31 3/4"	23 3/4"	31 3/4"
B	28 3/4"	20 3/4"	28 3/4"
C	24 3/4"	16 3/4"	24 3/4"
D	21 7/8"	14 3/8"	21 7/8"
E	2 1/2"	3"	3"
F	4 1/4"	1 3/4"	1 3/4"
G	3 3/8"	3"	3"
H	1 7/8"	1"	1"
WEIGHT	265 lbs.	179 lbs.	310 lbs.

STANDARD DETAIL DATE: 8/19/2009 REV: STORMWATER MANHOLE COVER N.T.S. EL PASO WATER UTILITIES PUBLIC SERVICE BOARD DETAIL No. 917

1 STORMWATER MANHOLE COVER N.T.S.

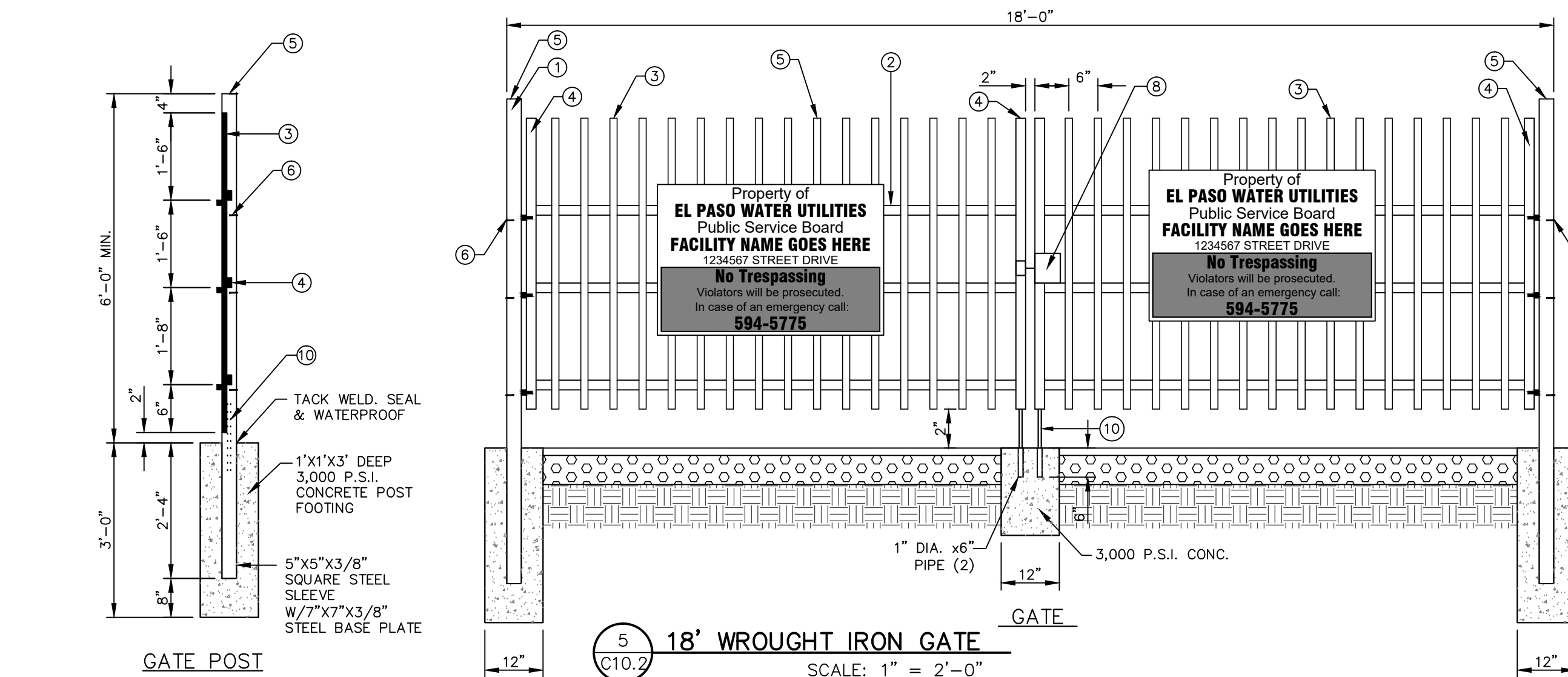


- GENERAL NOTES:**
1. MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
 3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
 4. AS-CAST DIMENSIONS MAY VARY $\frac{1}{16}$ " ± / PER FOOT (AASHTO M306-07).
 5. WEIGHT MAY VARY 5% ± (AASHTO M306-07).
 6. SHADED DIMENSIONS IN TABLE FOR REFERENCE ONLY. SOURCE: COUNTY OF EL PASO DESIGN STANDARDS FOR CONSTRUCTION, DETAIL 2-16.

MANHOLE RING	MANHOLE - ALL TYPES	MANHOLE TYPE 48"	MANHOLE TYPE 72"
A	33"	25 1/2"	32 3/4"
B	31 3/4"	23 3/8"	31 3/8"
C	31 1/2"	23 3/8"	31 3/8"
D	30"	22 1/2"	30"
E	39 1/2"	34 1/2"	42"
F	3/8"	3/8"	3/8"
G	5"	6"	6"
H	4 1/4"	6 1/4"	6 1/4"
I	3 3/4"	4 3/4"	4 3/4"
J	4 3/4"	6"	6"
K	2 3/4"	3 3/4"	3 3/4"
L	2 1/8"	2 1/8"	2 1/8"
M	1 1/2"	1 3/8"	1 3/8"
WEIGHT	220 lbs.	165 lbs.	225 lbs.

STANDARD DETAIL DATE: 8/19/2009 REV: STORMWATER MANHOLE RING N.T.S. EL PASO WATER UTILITIES PUBLIC SERVICE BOARD DETAIL No. 916

3 STORMWATER MANHOLE RING N.T.S.

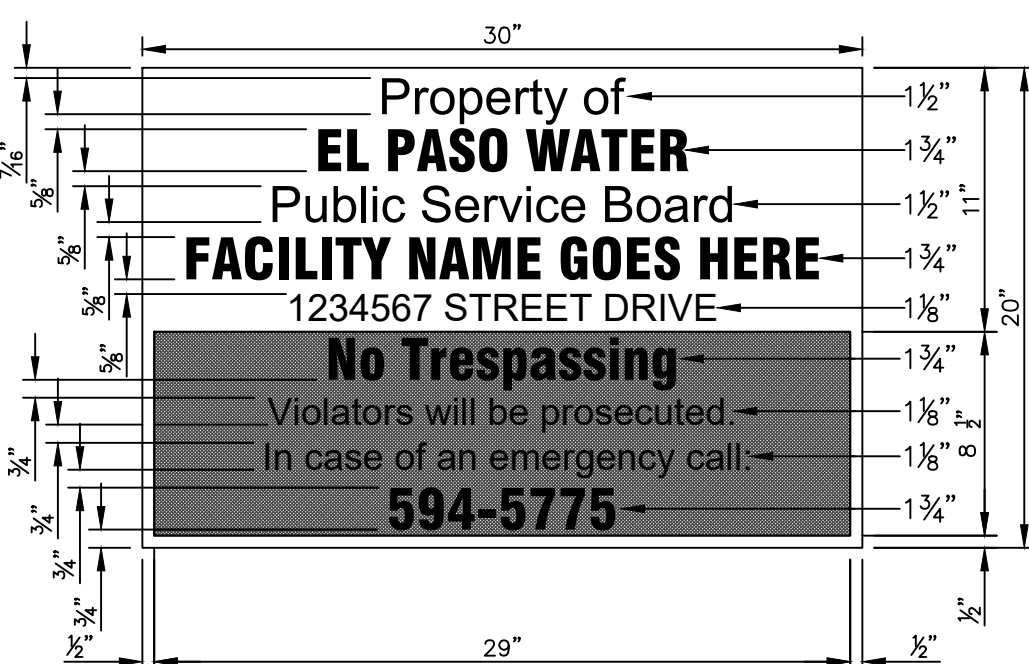


5 18' WROUGHT IRON GATE SCALE: 1" = 2'-0"

EQUIVALENT USCS AND AASHTO SOIL CONDITIONS FOR SOIL DESIGNATION

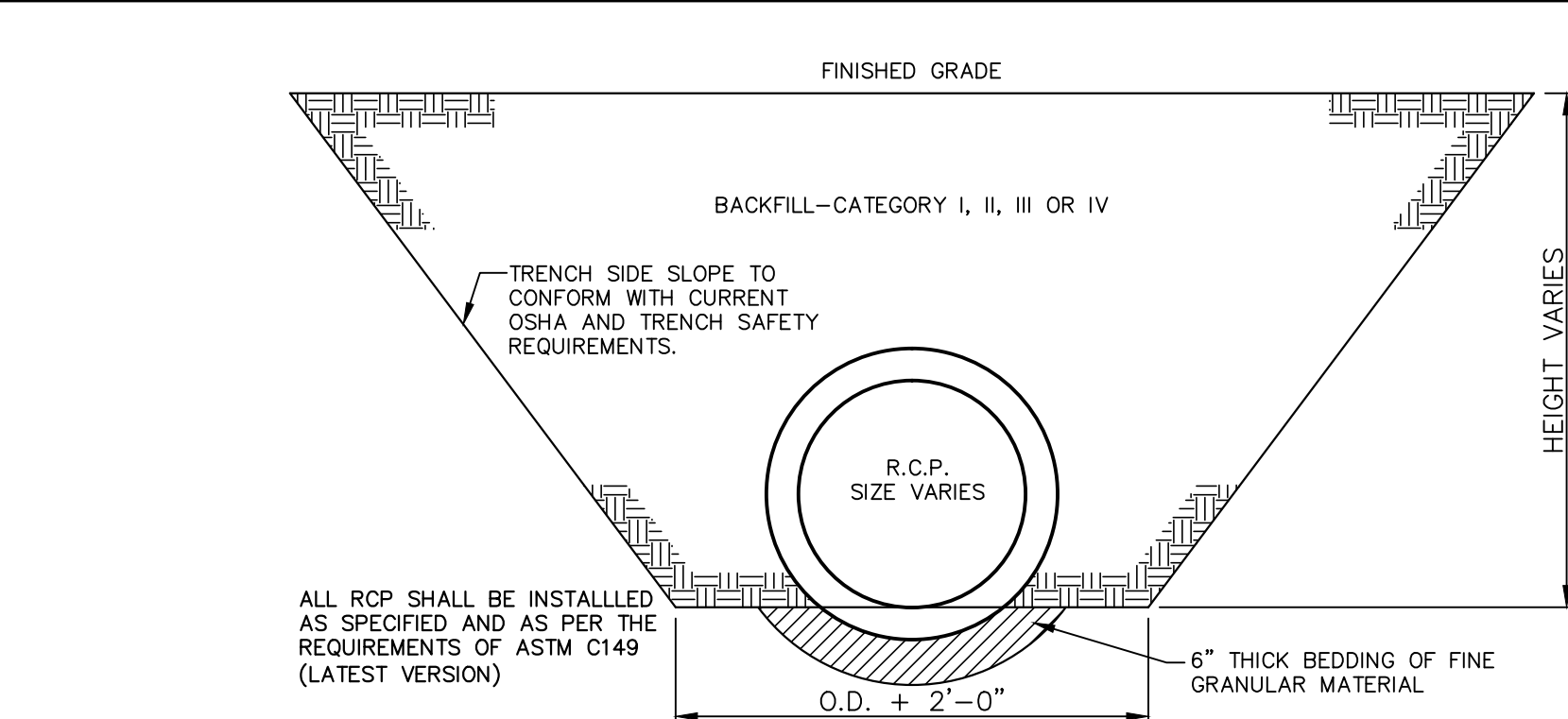
INSTALLATION TYPE	BEDDING THICKNESS	HAUNCH AND OUTER BEDDING	LOWER SIDE
TYPE 1	OD/24 MINIMUM; NOT LESS THAN 3-INCH. IF ROCK FOUNDATION =, USE OD/12 MINIMUM; NOT LESS THAN 6-INCH	95% CATEGORY I	95 90 80
TYPE 2	OD/24 MINIMUM; NOT LESS THAN 3-INCH. IF ROCK FOUNDATION =, USE OD/12 MINIMUM; NOT LESS THAN 6-INCH	95% CATEGORY I OR 95% CATEGORY II	95 90 85 80
TYPE 3	OD/24 MINIMUM; NOT LESS THAN 3-INCH. IF ROCK FOUNDATION =, USE OD/12 MINIMUM; NOT LESS THAN 6-INCH	100 95 90 85 75	90 85 80 75
TYPE 4	OD/24 MINIMUM; NOT LESS THAN 3-INCH. IF ROCK FOUNDATION =, USE OD/12 MINIMUM; NOT LESS THAN 6-INCH	100 95 90	90 85 80

SOIL	REPRESENTATIVE SOILS TYPE		PERCENT COMPACTION	
	USCS ASTM PRACTICE D2487	AASHTO M-145	SATNDARD PROCTOR	MODIFIED PROCTOR
CATEGORY I	CLEAN, COARSE GRAINED SOILS; SW, SP, GW, GP OR ANY SOIL BEGINNING WITH ONE OF THESE SYMBOLS WITH 12% OR LESS PASSING #200 SIEVE	A-1, A-3	100 95 90 85	95 90 85 80
CATEGORY II	CLEAN, COARSE GRAINED SOILS WITH FINES; GM, GC, SM, SC OR ANY SOIL BEGINNING WITH ONE OF THESE SYMBOLS, CONTAINING MORE THAN 12% PASSING #200 SIEVE	A-2-4, A-2-5, A-2-6, A-4 OR A-6 SOILS WITH 30% OR MORE RETAINED ON A #200 SIEVE	100 95 90 85	95 90 85 80
CATEGORY III	FINE-GRAINED SOILS; CL, ML, OR (CL-ML, CL/ML, ML/CL) ON A #200 SIEVE	A-2-7, A-4 OR A-6 WITH LESS THAN 30% RETAINED ON A #200 SIEVE	100 95 90 85	90 85 80 75
CATEGORY IV BUT NOT ALLOWED FOR HAUNCH OR BEDDING	MH, CH, OL, OH, PT	A-5, A-7	100 95 90	90 85 80



- GENERAL NOTES:**
1. SIGN MATERIAL TO BE 16 GAUGE GALVANIZED SHEET METAL.
 2. TOP PART OF SIGN SHALL SHOW BLACK LETTERS ON A WHITE BACKGROUND.
 3. BOTTOM PART OF SIGN SHALL SHOW WHITE LETTERS ON A BLACK BACKGROUND.

4 NO TRESPASSING WARNING SIGN SCALE: N.T.S.

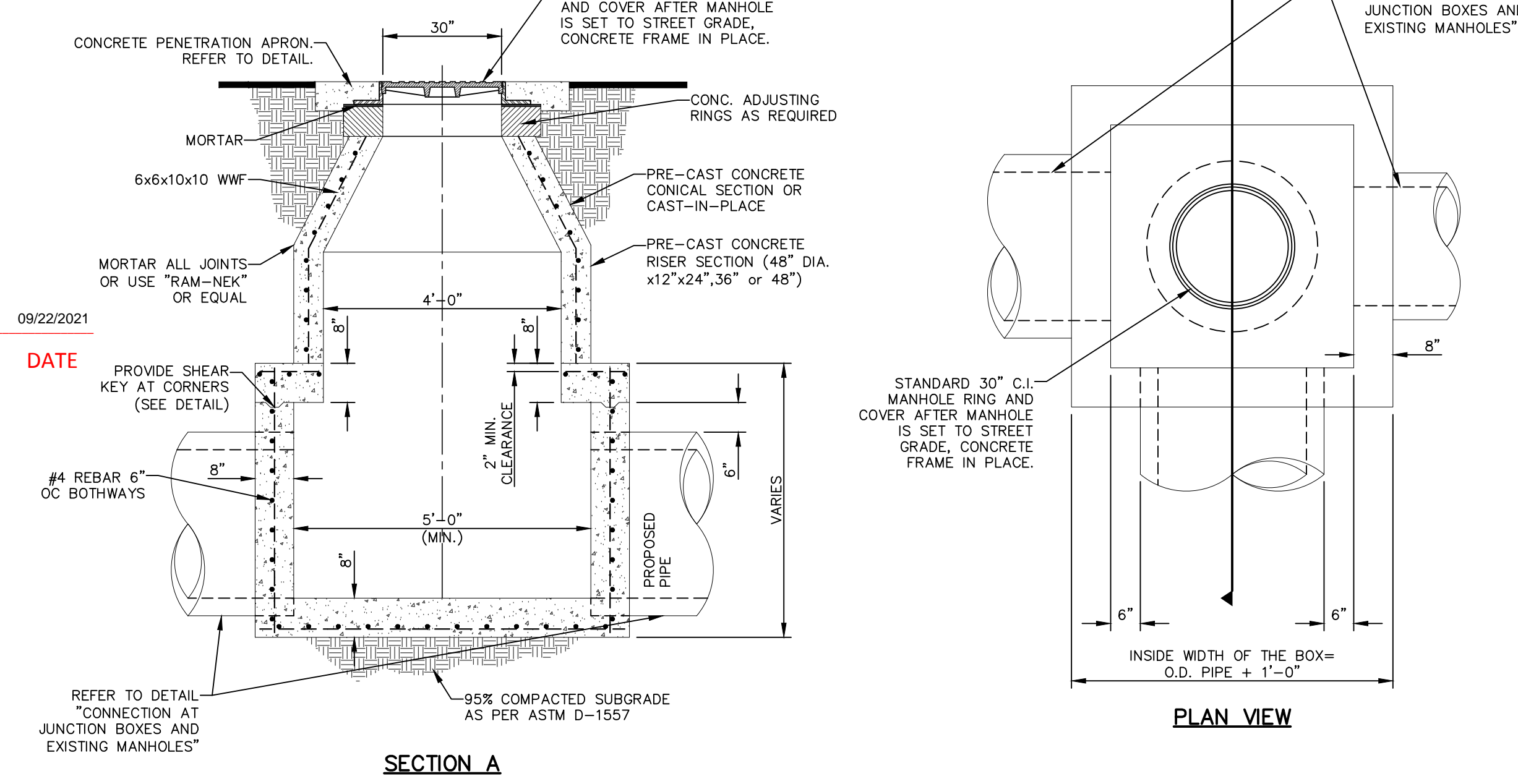


- NOTES:**
1. EXCAVATION PIPE TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN IN THE PLANS. WHEN ROCK OR OTHER UNYIELDING FOUNDATION MATERIAL IS ENCOUNTERED, IT SHALL BE REMOVED TO A DEPTH OF O.D./12 OR 6", WHICHEVER IS GREATER AND REPLACED WITH APPROVED MATERIAL AND COMPACTED TO AT LEAST THE STANDARD PROCTOR DENSITY SPECIFIED FOR THE BEDDING MATERIAL.
 2. FOUNDATION. THE FOUNDATION SHALL BE MODERATELY FIRM TO HARD SOIL, STABILIZED SOIL OR COMPACTED FILL MATERIAL. WHEN UNSUITABLE OR UNSTABLE MATERIAL IS ENCOUNTERED, THE FOUNDATION SHALL BE STABILIZED.
 3. BEDDING. THE BEDDING SHALL BE CONSTRUCTED UNIFORMLY OVER THE FULL LENGTH OF THE PIPE BY EXERTING FORCE ON THE BARREL TO DISTRIBUTE THE LOAD-BEARING REACTION UNIFORMLY ON THE PIPE BARREL OVER ITS FULL LENGTH AND TO MAINTAIN THE REQUIRED PIPE GRADE. IF PLACED IN LAYERS, THE THICKNESS OF THE LAYERS SHALL BE REQUIRED TO ACHIEVE THE SPECIFIED COMPACTION, IF THE PIPE BEING INSTALLED HAS A PROJECTING BELL, BELL HOLES SHALL BE PLACED TO BE AS UNIFORM AS POSSIBLE. THE MAXIMUM AGGREGATE SIZE SHALL BE 1-INCH WHEN THE BEDDING THICKNESS IS LESS THAN 6-INCHES AND 1 1/2" WHEN THE BEDDING IS 6-INCH OR GREATER.
 4. PIPE LAYING. PIPE SHALL BE INSTALLED TO THE LINE AND GRADE AS SHOWN ON THE PLANS. THE JOINT SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS. UNLESS APPROVED BY THE DESIGN ENGINEER, PIPE LAYING SHALL START AT THE LOWEST END OF THE PIPE LINE AND PIPE LAD WITH THE BELL END UPGRADE. THE BEDDING GRADE UNDER THE MIDDLE THIRD OF THE PIPE OUTSIDE DIAMETER SHALL BE PREPARED BEFORE LAYING THE PIPE SECTION MAKING ADJUSTMENTS IN GRADE BY EXERTING FORCE ON THE BARREL OF THE PIPE WITH EXCAVATING EQUIPMENT, BY LIFTING AND DROPPING THE PIPE, OR BY LIFTING AND PACKING THE BEDDING MATERIAL UNDER IT SHALL BE PROHIBITED. IF THE INSTALLED PIPE SECTION IS NOT ON GRADE, THE PIPE SECTION SHALL BE COMPLETELY UNJOINED, THE GRADE CORRECTED, AND THE PIPE THEN REJOINED.
 5. BEFORE ASSEMBLING THE PIPE JOINT, CLEAN ALL DIRT AND FOREIGN SUBSTANCE FROM THE BELL & SPIGOT OR TONGUE & GROOVE ENDS OF THE PIPE, FOR TONGUE & GROOVE JOINTS, PLACE THE PREFORMED FLEXIBLE JOINT SEALANT MATERIAL AROUND THE TOP HALF OF THE SPIGOT AND THE BOTTOM HALF OF THE BELL.
 6. BACKFILLING. ALL TRENCHES SHALL BE BACKFILLED AS PER PROJECT REQUIREMENTS. THE HAUNCH SHALL BE CONSTRUCTED USING THE SPECIFIED SOIL TYPE AND COMPACTION LEVEL REQUIRED FOR THE DESIGNATED INSTALLATION. THE BACKFILL SHALL BE PLACED IN LAYERS. THE THICKNESS OF THE LAYERS SHALL BE 8-INCH LIFTS AS COMPACTED TO THE SPECIFIED REQUIREMENTS. THE BACKFILL SHALL BE MATERIAL CONFORMING TO THE PROJECT PLAN SAND CONTAINING NO DEBRIS, ORGANIC MATTER OR FROZEN MATERIAL.
 7. MINIMUM COVER FOR CONSTRUCTION LOADS. IF PASSAGE OF CONSTRUCTION EQUIPMENT OVER AN INSTALLED PIPELINE IS NECESSARY DURING PROJECT CONSTRUCTION, COMPACTED OVERFILL IN THE FORM OF A RAMP SHALL BE CONSTRUCTED TO A MINIMUM ELEVATION OF 3-FEET OVER THE TOP OF THE PIPE OR TO A HEIGHT OVER THE TOP OF THE PIPE DO NOT EXCEED THE PIPE DESIGN STRENGTH.
 8. HORIZONTAL AND VERTICAL ALIGNMENTS. THE HORIZONTAL ALIGNMENT OF THE FACILITIES WILL BE ALLOWED IF THE CENTER OF 36-INCH AND SMALLER DIAMETER PIPES SHALL NOT BE MORE THAN 6-INCHES OFF THE DESIGNATED ALIGNMENT. IN ADDITION, FOR PIPE GREATER THAN 36-INCH DIAMETER, THE CENTER LINE SHALL NOT BE MORE THAN 2-INCHES PER 12-INCH OF DIAMETER FROM THE DESIGNATED ALIGNMENT. PIPELINE ALIGNMENT SHALL BE STRAIGHT FROM MANHOLE TO MANHOLE WITH A LINE OF SIGHT THROUGH THE PIPE SHALL EXIST. THE VERTICAL ALIGNMENT SHALL NOT DEVIATE FROM THE DESIGNATED GRADE BY AN AMOUNT GREATER THAN THE TOTAL OF 1/4 INCH PLUS 1 INCH PER YARD OF DIAMETER OF SEWER PIPE. NO VARIANCE FROM GRADE, VERTICALLY OR HORIZONTALLY, SHALL BE PERMITTED THAT RESULTS IN INDIVIDUAL JOINT COLLECTIONS IN EXCESS OF MANUFACTURER'S RECOMMENDATIONS.

2 RCP STORM SEWER BEDDING DETAIL SCALE: 1/2" = 1'-0"

JUNCTION BOX NOTES

1. STANDARD STRUCTURAL DESIGN SHALL BE BASED ON AASHTO HS20 WHEEL LOADING.
2. THE PRE-CAST MANHOLE RISER AND CONICAL SECTIONS SHALL CONFORM TO ASTM SPECIFICATIONS C-478.
3. THE CONICAL SECTIONS SHALL BE ECCENTRIC WHERE LADDER RUNGS ARE REQUIRED (IF APPLICABLE).
4. THE PRE-CAST CONCRETE SHALL HAVE A MINIMUM ALLOWABLE COMPRESSIVE STRENGTH AT 28 DAYS OF 4000 POUNDS PER SQUARE INCH FOR THE RISER AND CONICAL SECTIONS.
5. THE RISER SECTIONS SHALL BE REINFORCED WITH STEEL WIRE MESH 6x6-10-10 AND THE CONICAL SECTION SHALL HAVE A 6x6-10-10 STEEL WIRE MESH REINFORCEMENT AND 3/8" ROD AT TOP AND BOTTOM (SEE ASTM STANDARDS PART 16-C-478). REINFORCING STEEL SHALL COMPLY WITH ASTM A615 GRADE 60, A706 GRADE 60 OR A497 GRADE 70. BAR BENDING AND PLACEMENT SHALL COMPLY WITH THE LATEST ACI SPECIFICATIONS.
6. REINFORCING STEEL FOR CAST IN PLACE JUNCTION BOX SHALL COMPLY WITH ASTM A615 GRADE 60, A706 GRADE 60 OR A497 GRADE 70. BAR BENDING AND PLACEMENT SHALL COMPLY WITH THE LATEST ACI SPECIFICATIONS.
7. ALL CAST IN PLACE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.



6 48" MANHOLE WITH JUNCTION BOX DETAIL SCALE: N.T.S.

REFERENCES - BENCHMARKS

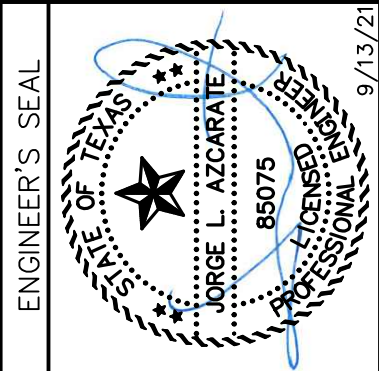
CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD., 508+43.31' A DISTANCE OF 487.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.

ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)

DATE: REVISIONS: BY:

813 N. Kansas St. Suite 300 El Paso, TX 79902 DATE: SEPTEMBER 2021 DESIGN BY: G.J.M. DRAWN BY: E.Z. CHKD. BY: J.L.A. APPVD. BY: J.L.A. JOB No. 2000-228

CSA GROUP TEXAS REGISTERED ENGINEERING FIRM F-4564 www.csagroup.net

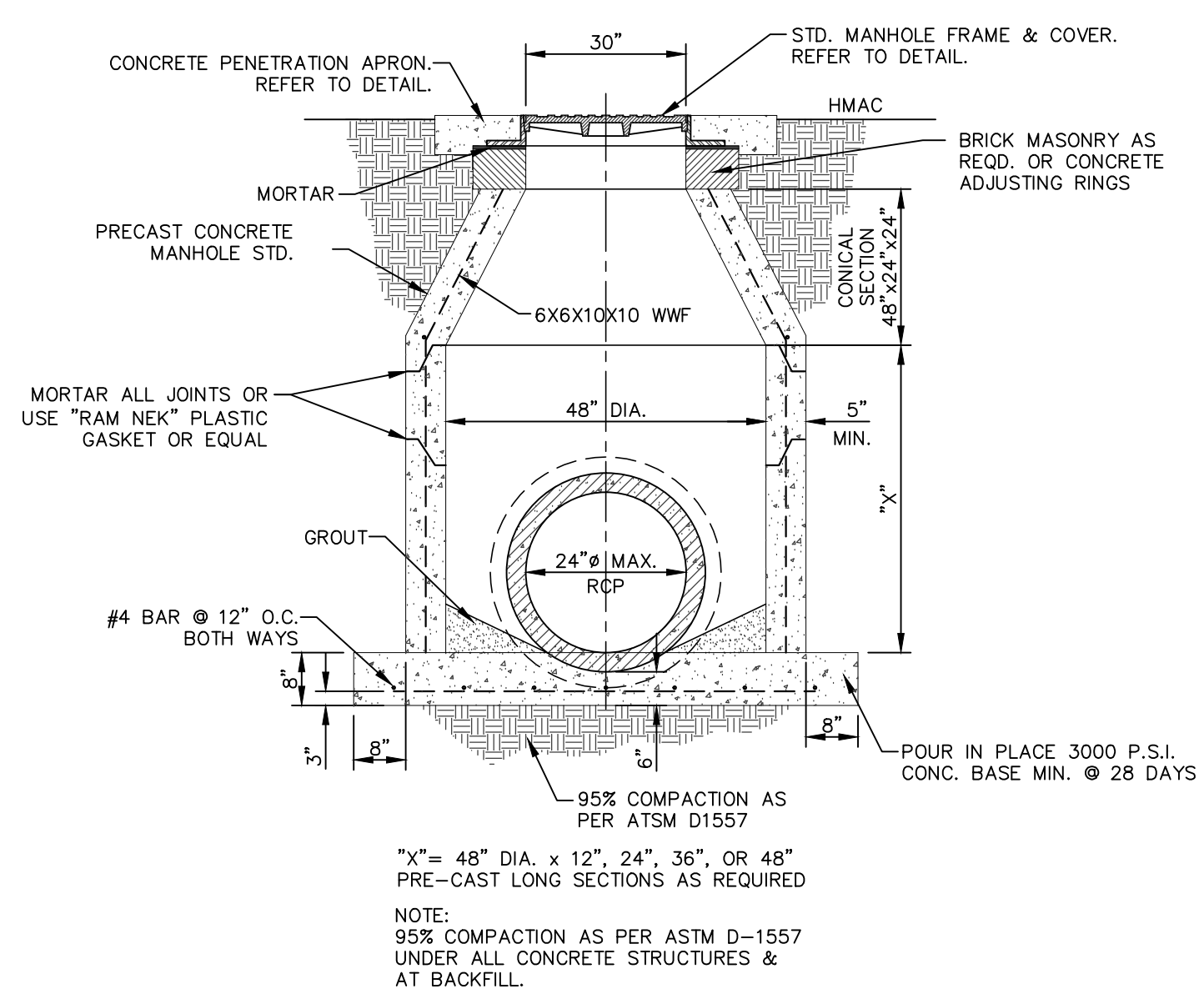


Horizontal: AS SHOWN Vertical: N/A Contour Interval: N/A DATE: SEPTEMBER 2021 DESIGN BY: G.J.M. DRAWN BY: E.Z. CHKD. BY: J.L.A. APPVD. BY: J.L.A. JOB No. 2000-228

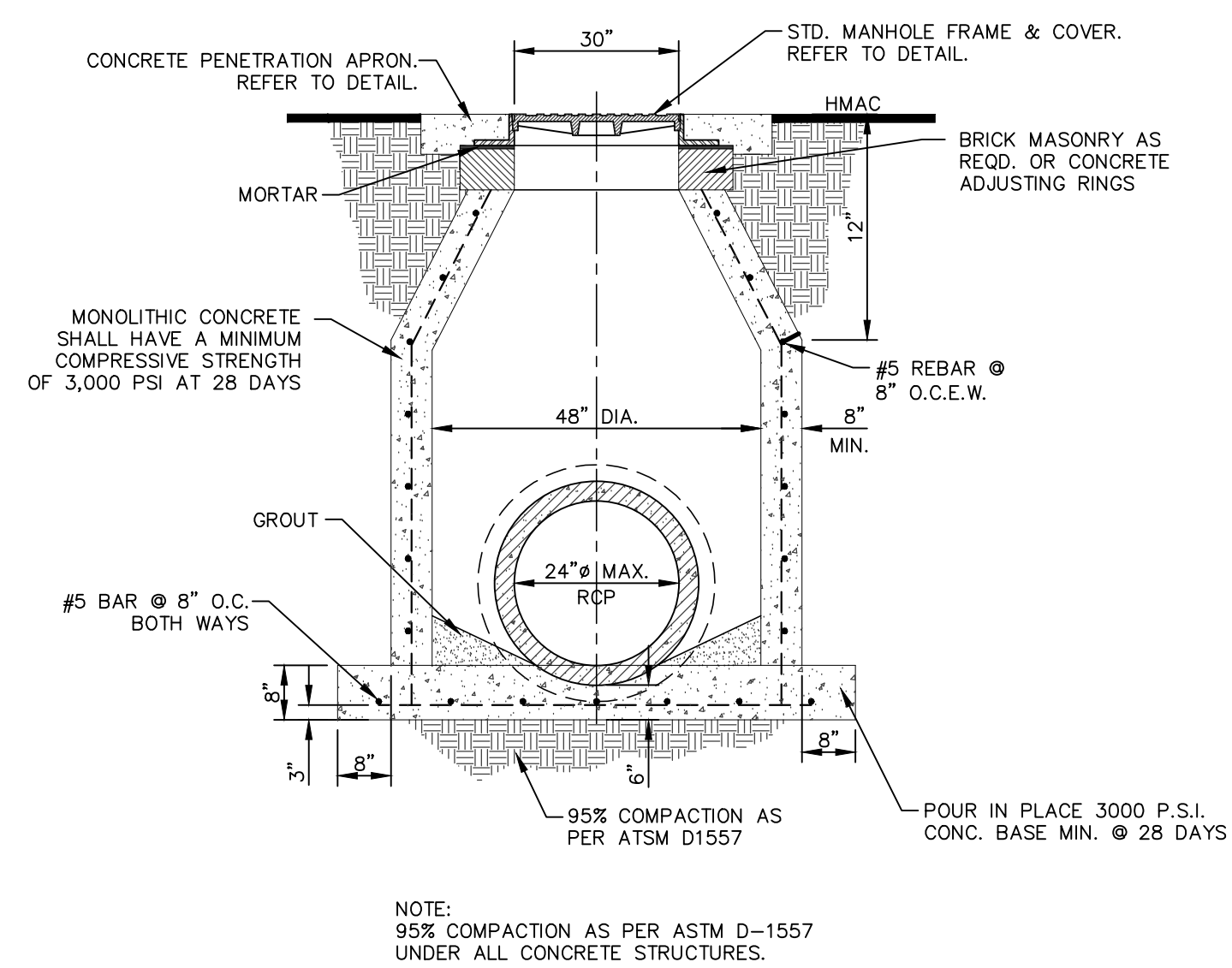
TRES SUEÑOS UNIT TWENTY TWO REPLAT "A" SUBDIVISION IMPROVEMENTS

SHEET TITLE DRAINAGE DETAILS (SHEET 2 OF 5) SHEET NO.

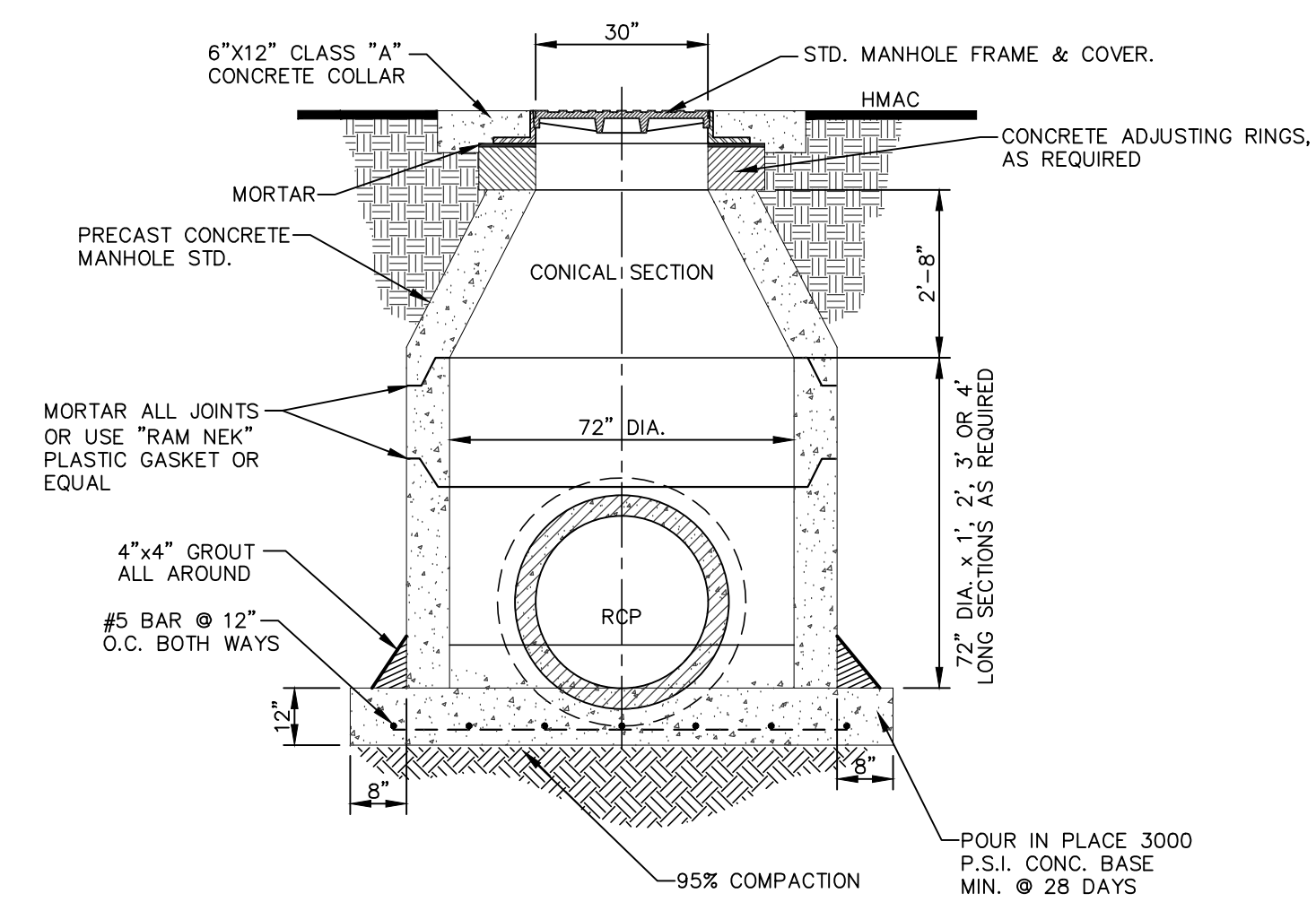
C10.2



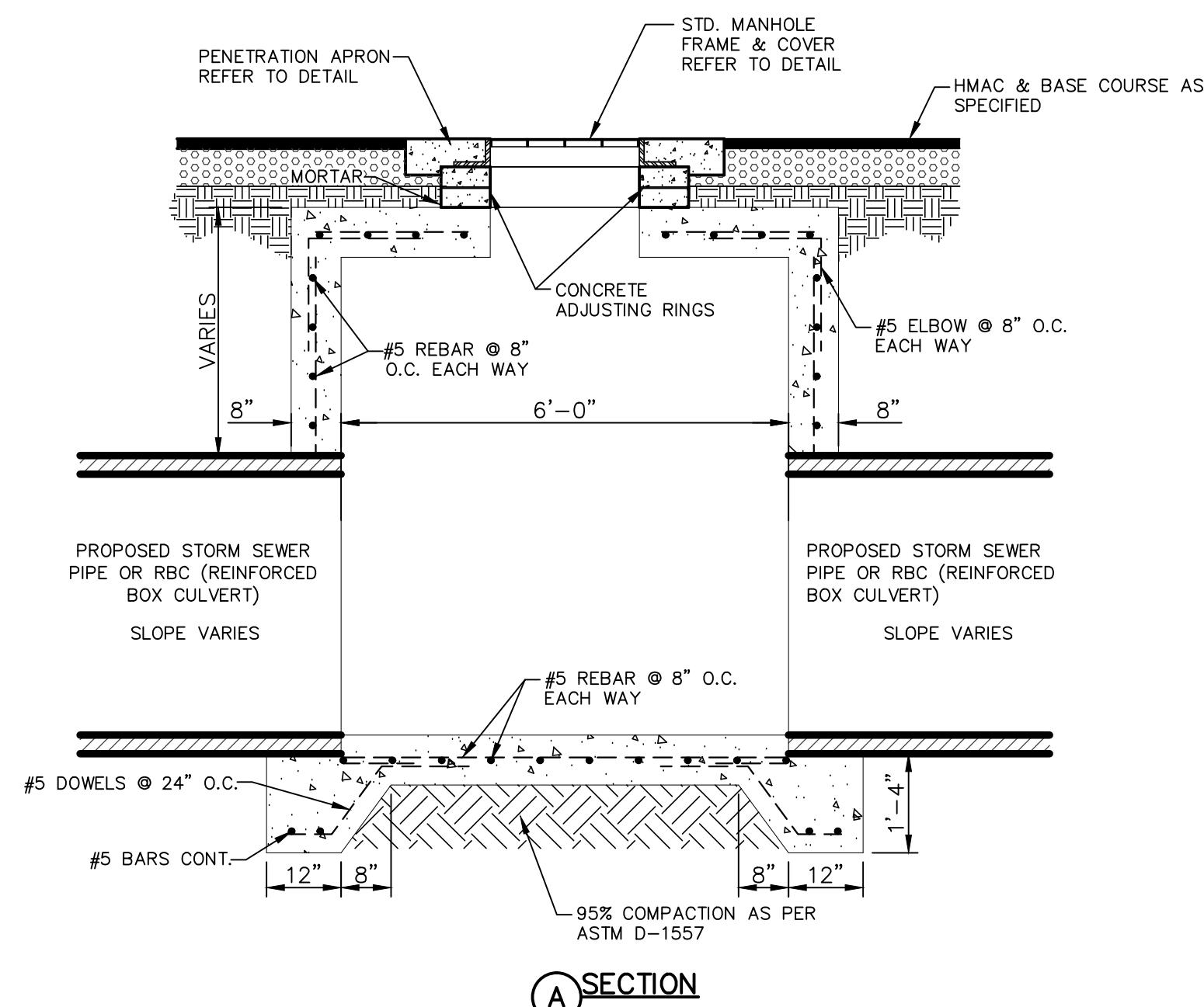
1 48" STANDARD MANHOLE DETAIL
SCALE: N.T.S.



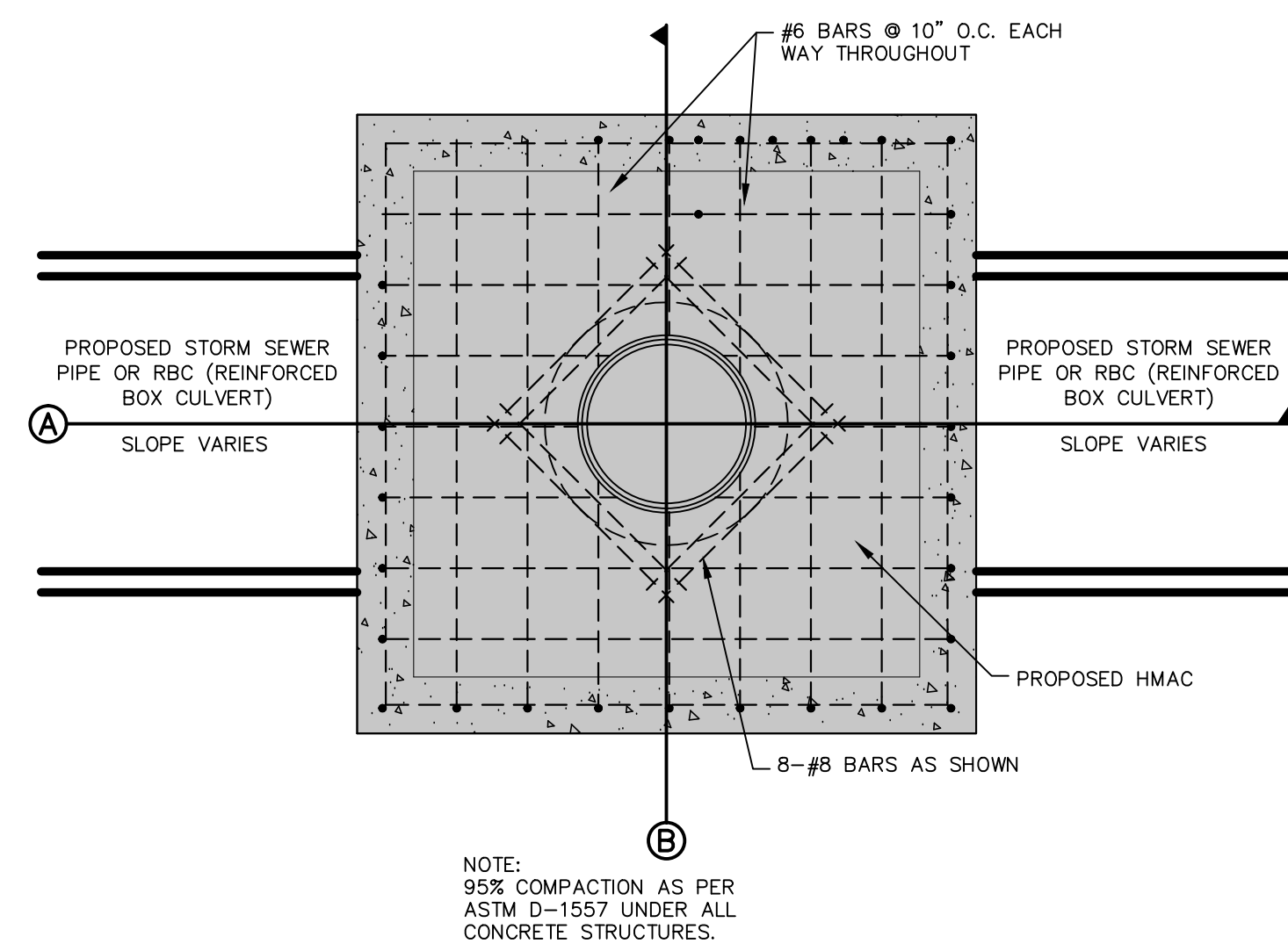
2 48" CAST-IN-PLACE CONCRETE MANHOLE DETAIL
SCALE: N.T.S.



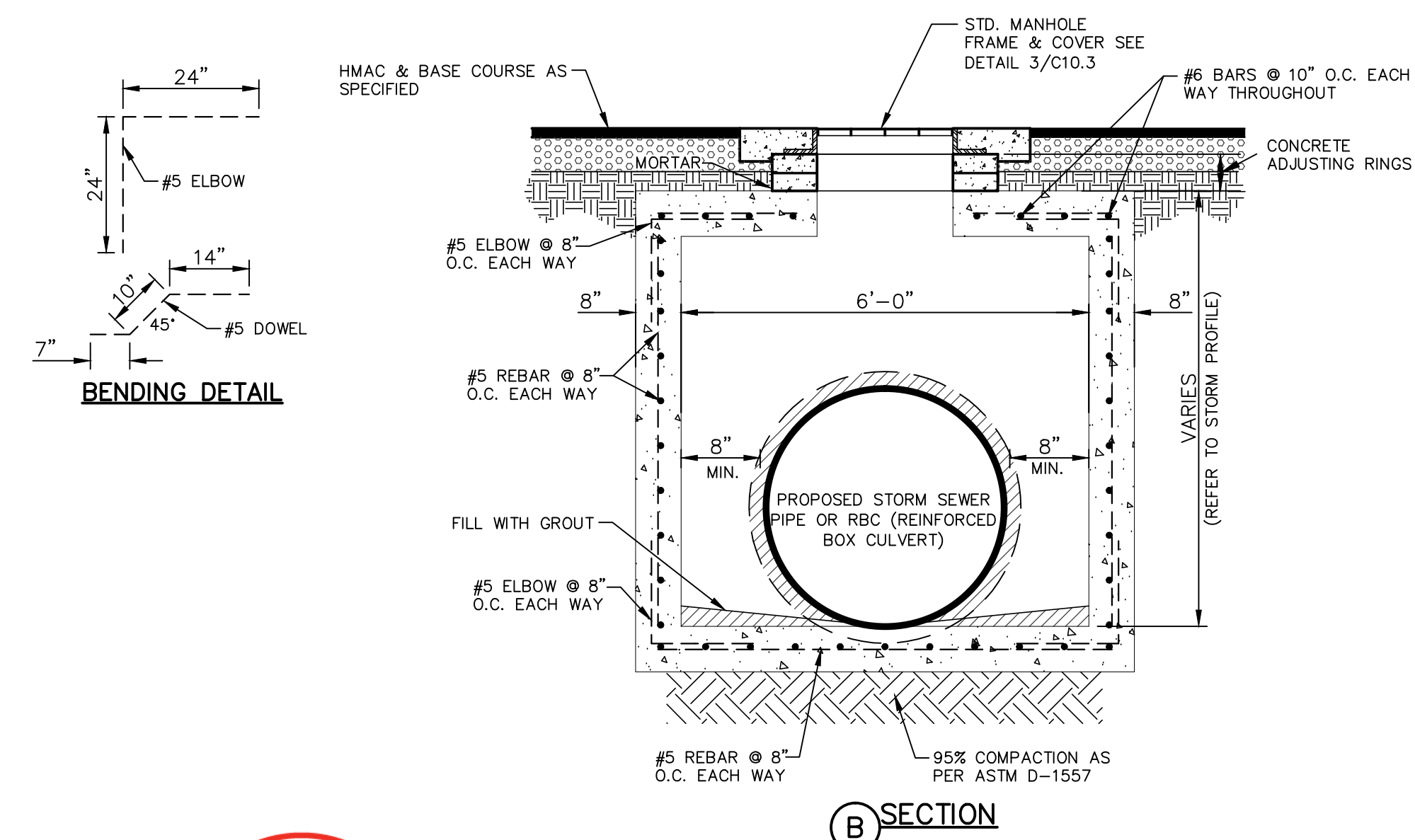
3 72" STANDARD MANHOLE DETAIL
SCALE: N.T.S.



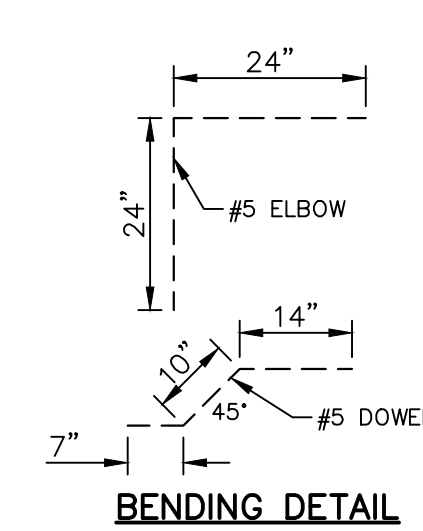
A SECTION



4 72" CAST-IN PLACE MANHOLE DETAIL
SCALE: N.T.S.



B SECTION



BENDING DETAIL



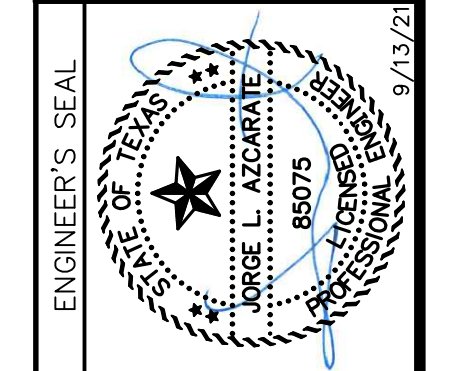
Oscar Villalobos 08/22/2021
BY DATE

REFERENCES - BENCHMARKS
CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD., 508+43.31' A DISTANCE OF 487.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)

DATE	REVISIONS	BY

813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232
www.ceagroup.net

CEA
GROUP
TEXAS REGISTERED ENGINEERING FIRM F-4564



SCALE: AS SHOWN
Horizontal: 1/4" = 1'-0"
Vertical: 1/4" = 1'-0"
Contour Interval: 1' / A

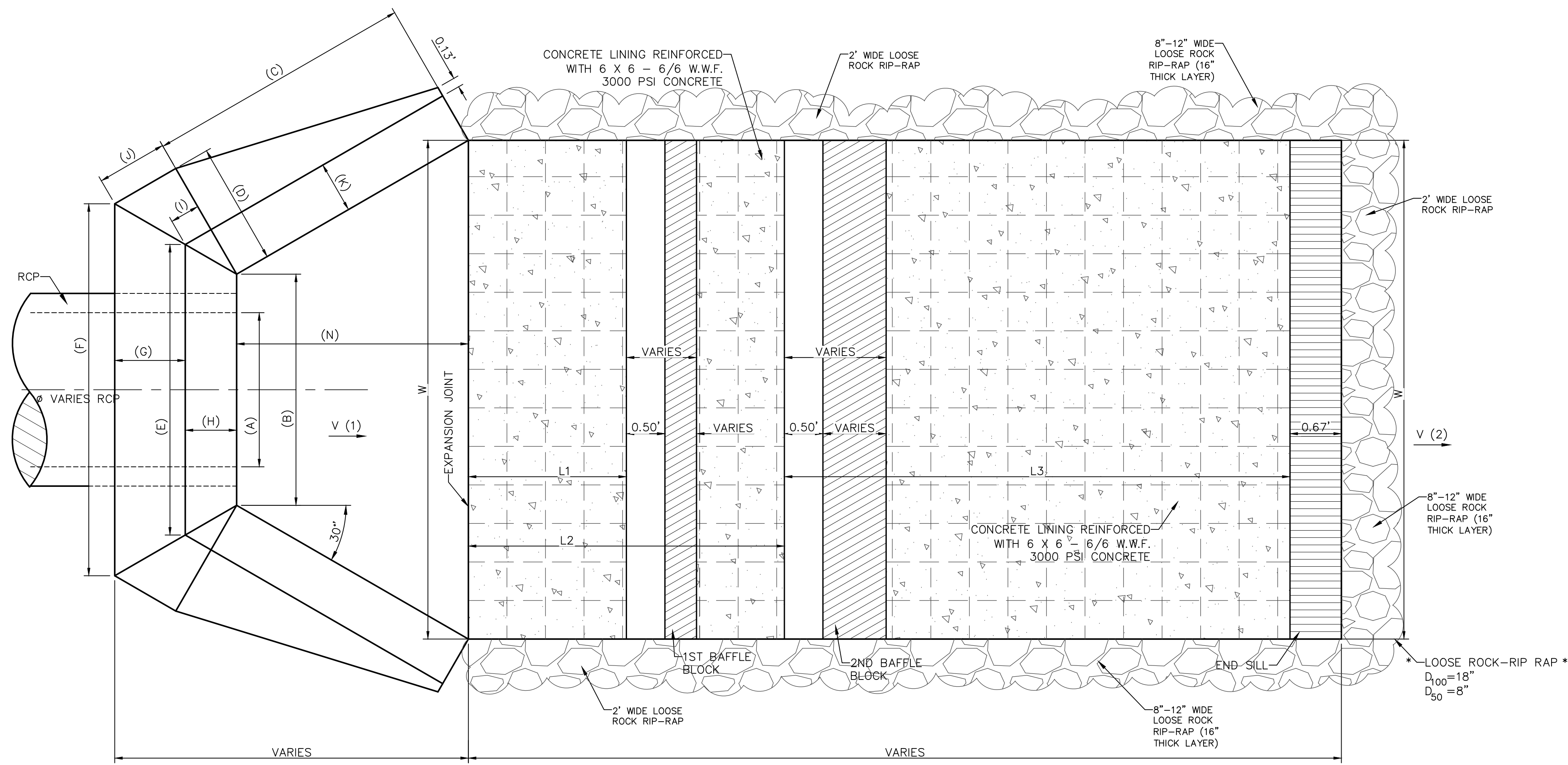
DATE: SEPTEMBER 2021
DESIGN BY: G.J.M.
DRAWN BY: E.Z.
CHKD. BY: F.Z.
APPVD. BY: J.L.A.
JOB No. : 2000-228

PROJECT TITLE
**TRES SUEÑOS UNIT TWENTY TWO
REPLAT "A"
SUBDIVISION IMPROVEMENTS**

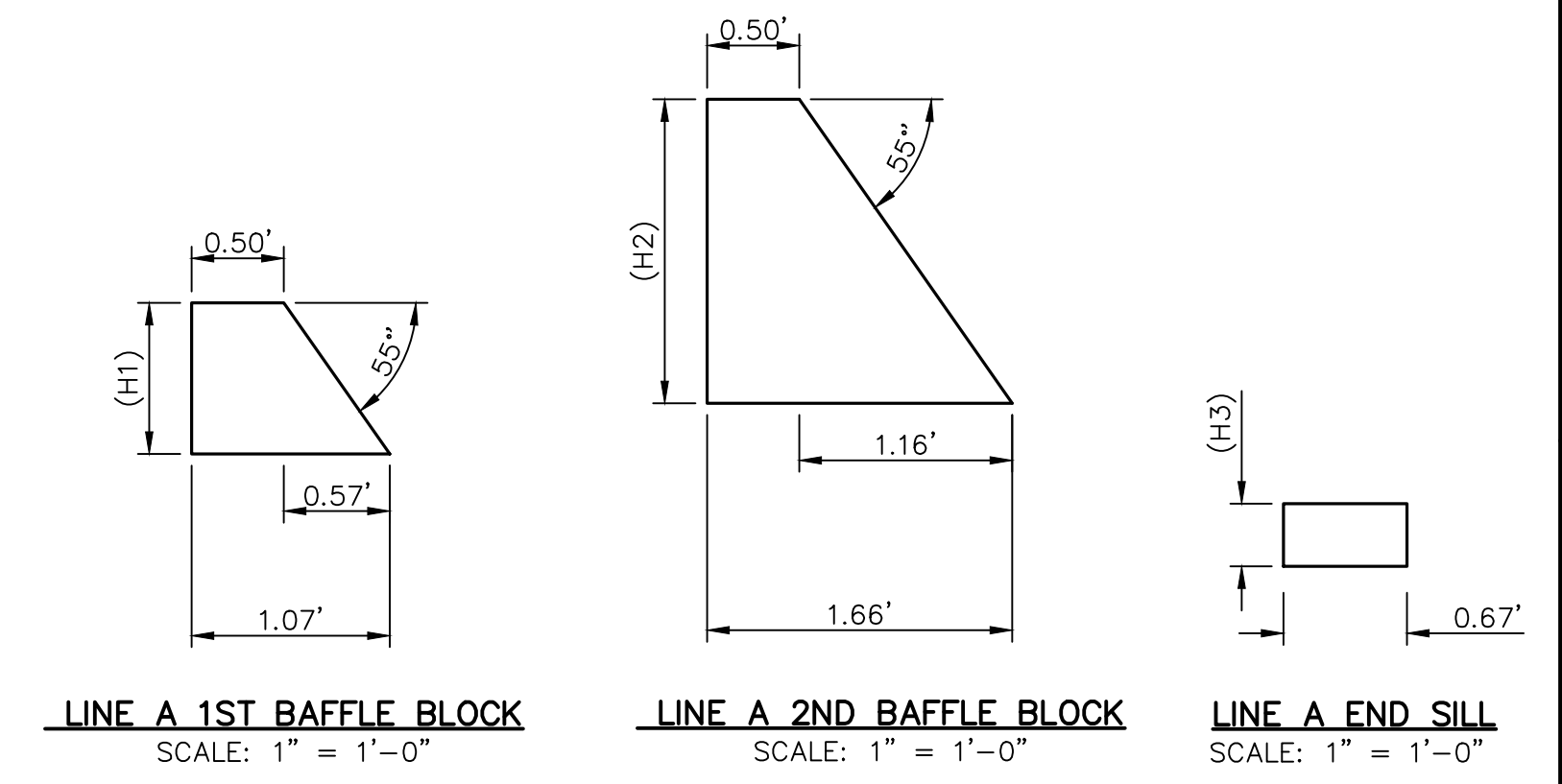
SHEET TITLE
**DRAINAGE
DETAILS**

(SHEET 3 OF 5)
SHEET NO.

C10.3



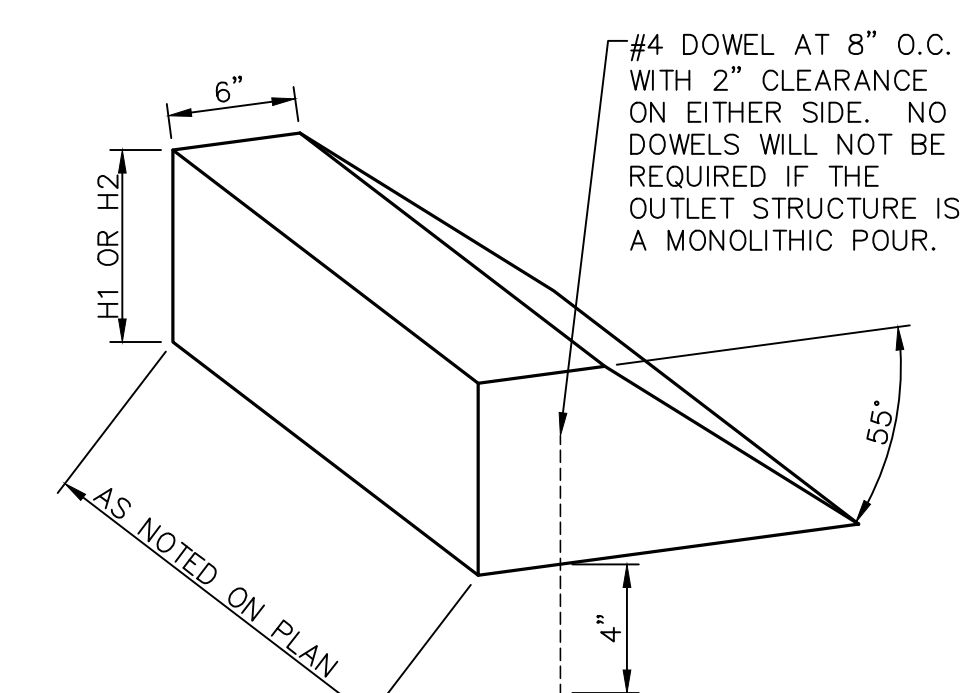
TOP VIEW
SCALE: N.T.S.



LINE A 1ST BAFFLE BLOCK
SCALE: 1" = 1'-0"

LINE A 2ND BAFFLE BLOCK
SCALE: 1" = 1'-0"

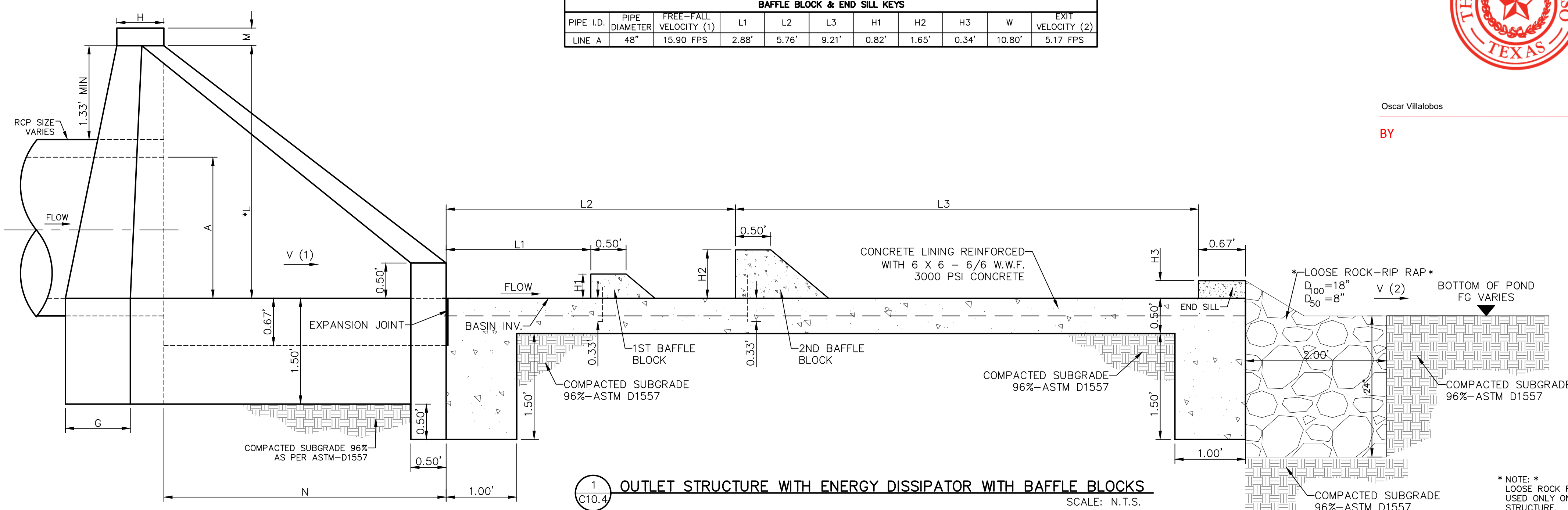
LINE A END SILL
SCALE: 1" = 1'-0"



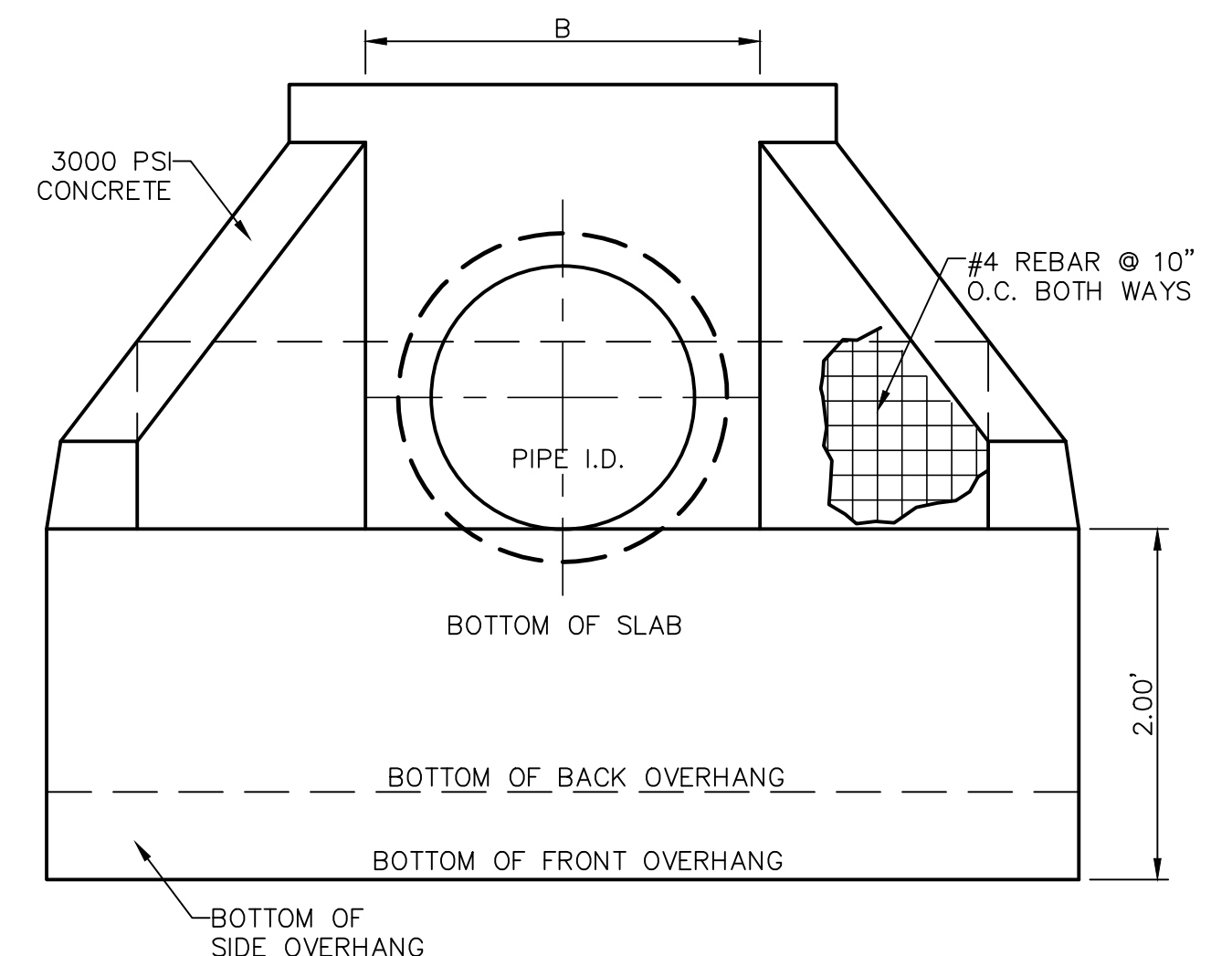
BAFFLE BLOCK
SCALE: N.T.S.

HEADWALL/WINGWALL KEYS														
PIPE I.D.	A	B	C	D	E	F	G	H	I	J	K	*L	M	N
48"	48"	60"	69 1/2"	25"	71 1/8"	88 1/8"	15"	10"	5 1/2"	14 1/2"	10"	70"	4"	96"

BAFFLE BLOCK & END SILL KEYS											
PIPE I.D.	PIPE DIAMETER	FREE-FALL VELOCITY (1)	L1	L2	L3	H1	H2	H3	W	EXIT VELOCITY (2)	
LINE A	48"	15.90 FPS	2.88'	5.76'	9.21'	0.82'	1.65'	0.34'	10.80'	5.17 FPS	



OUTLET STRUCTURE WITH ENERGY DISSIPATOR WITH BAFFLE BLOCKS
SCALE: N.T.S.



HEADWALL/WINGWALL KEYS														
PIPE I.D.	A	B	C	D	E	F	G	H	I	J	K	*L	M	N
48"	48"	60"	69 1/2"	25"	71 1/8"	88 1/8"	15"	10"	5 1/2"	14 1/2"	10"	70"	4"	96"

FRONT VIEW
SCALE: N.T.S.



Oscar Villalobos
BY
DATE 09/22/2021

* NOTE: *
LOOSE ROCK RIP RAP TO BE
USED ONLY ON LINE A OUTLET
STRUCTURE.

REFERENCES - BENCHMARKS
CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD., 508+43.31' A DISTANCE OF 487.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)

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915.544.5232
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CEA GROUP
TEXAS REGISTERED ENGINEERING FIRM F-4564

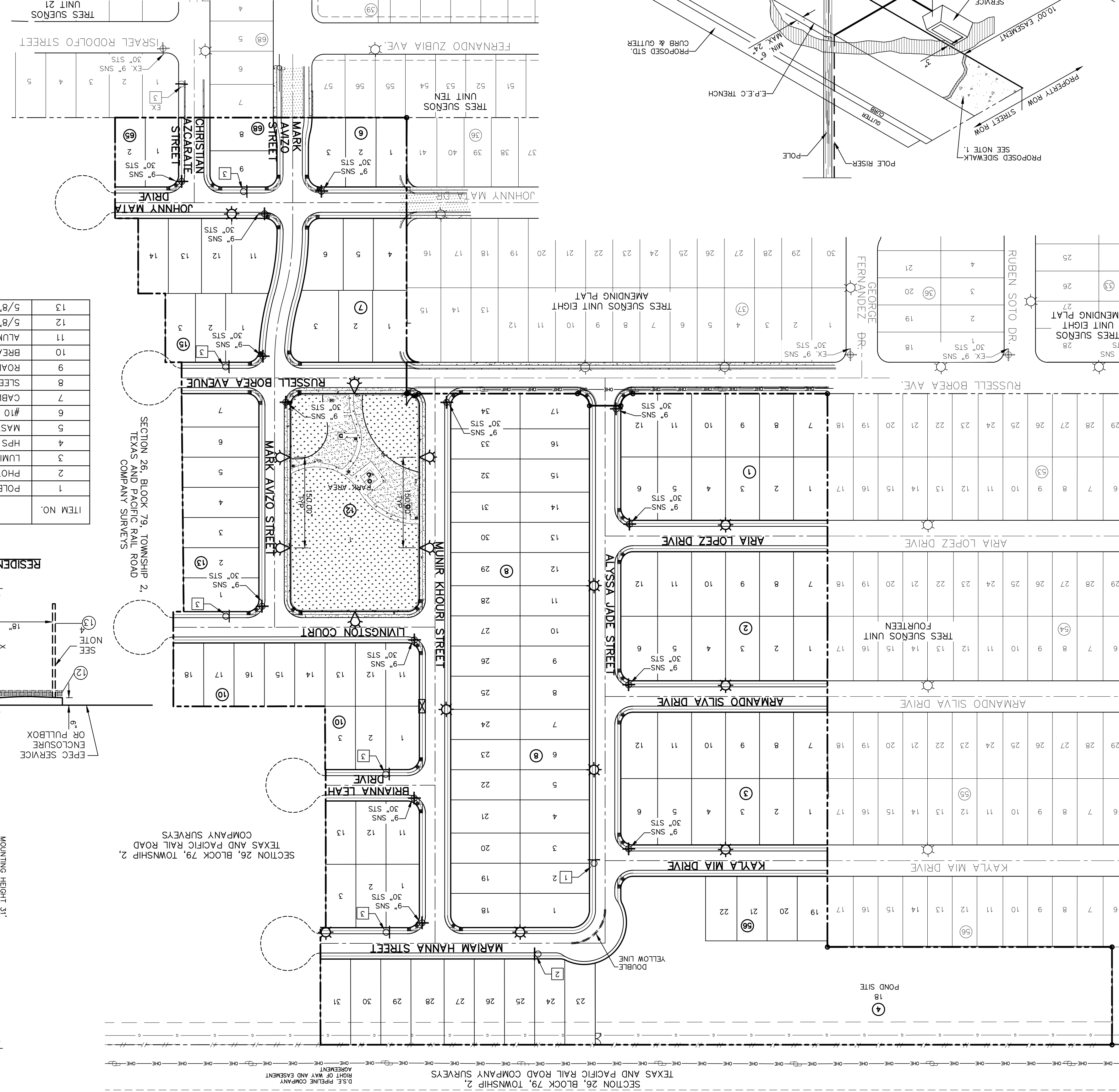
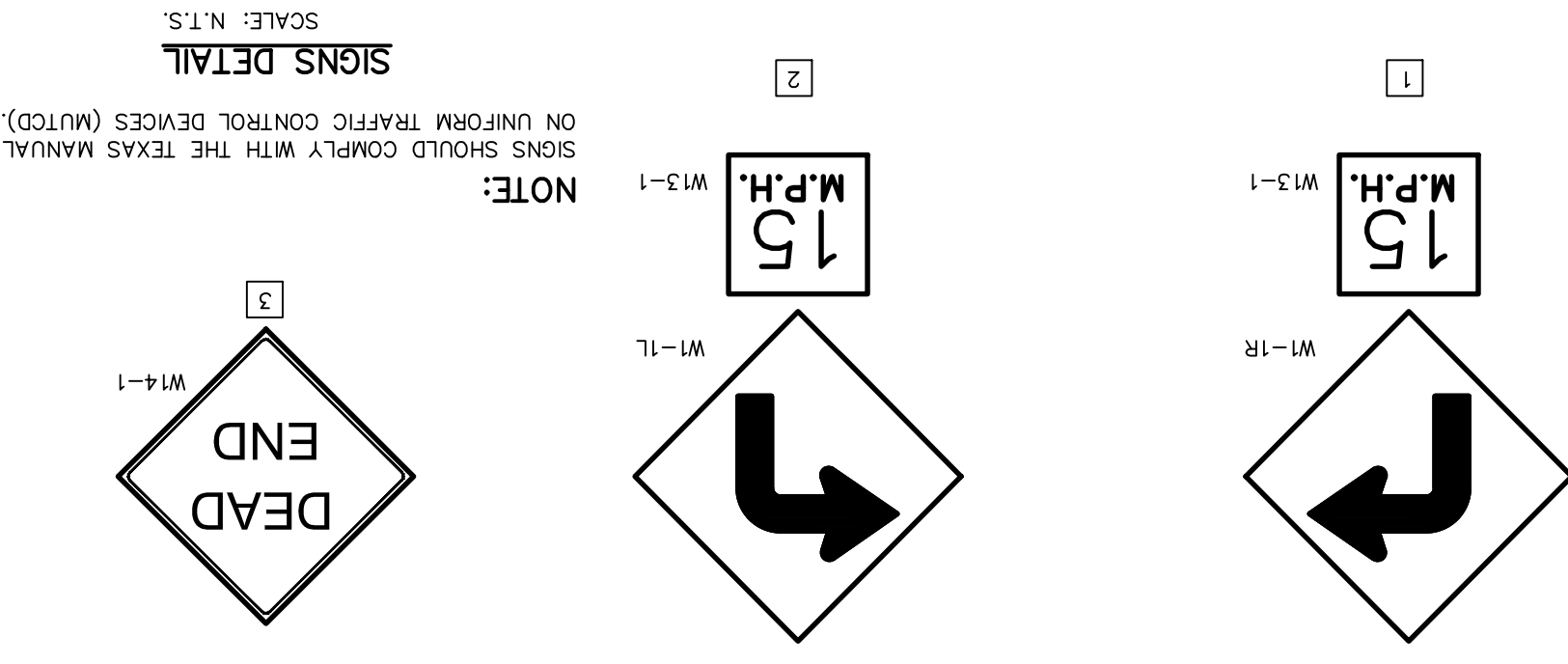
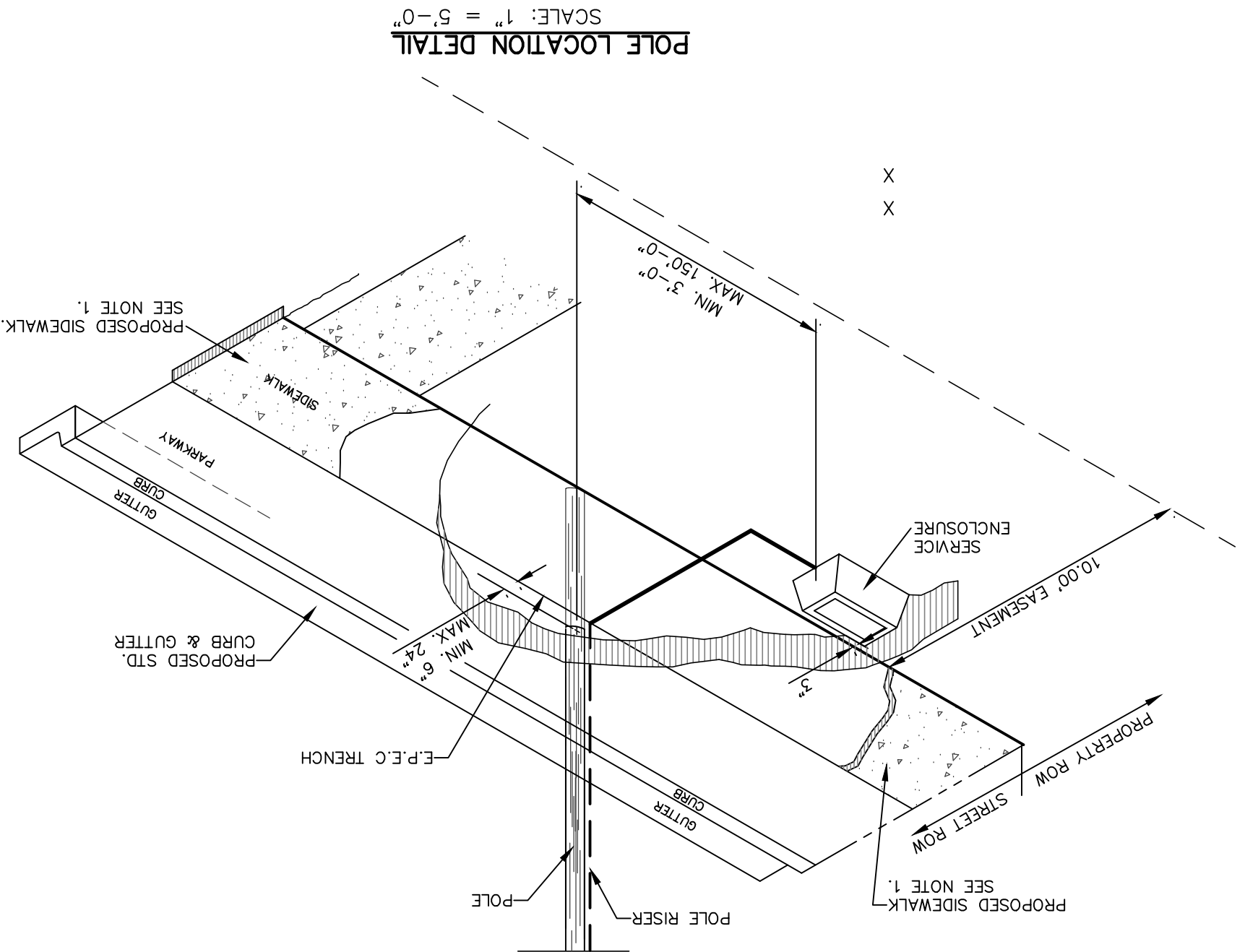
ENGINEER'S SEAL
JOSÉ L. AZCÁRATE
6805
9/13/21

SCALE: AS SHOWN
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A
DATE: SEPTEMBER 2021
DESIGN BY: G.J.M.
DRAWN BY: E.Z.
CHKD. BY: F.Z.
APPVD. BY: J.L.A.
JOB No. 2000-228

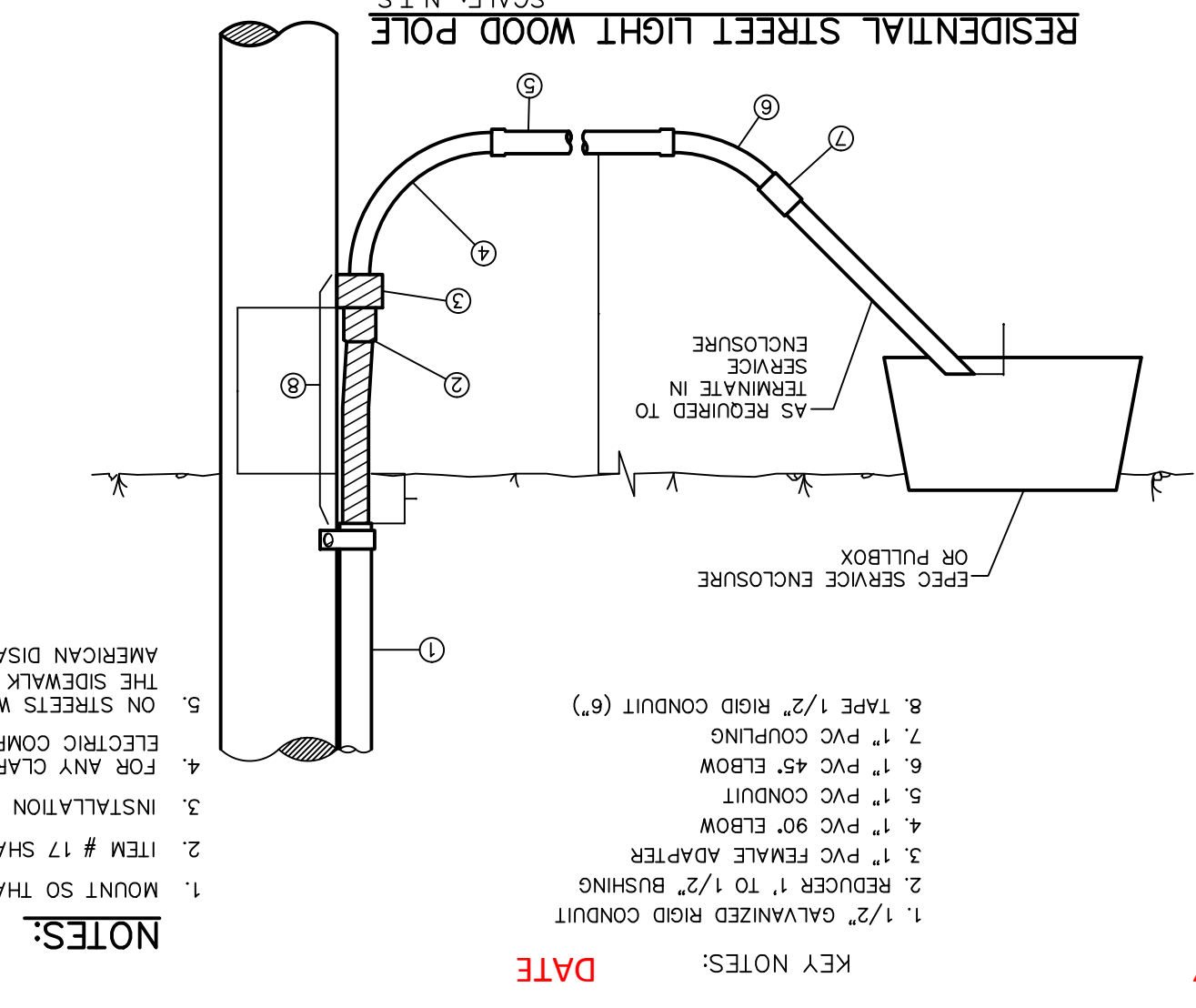
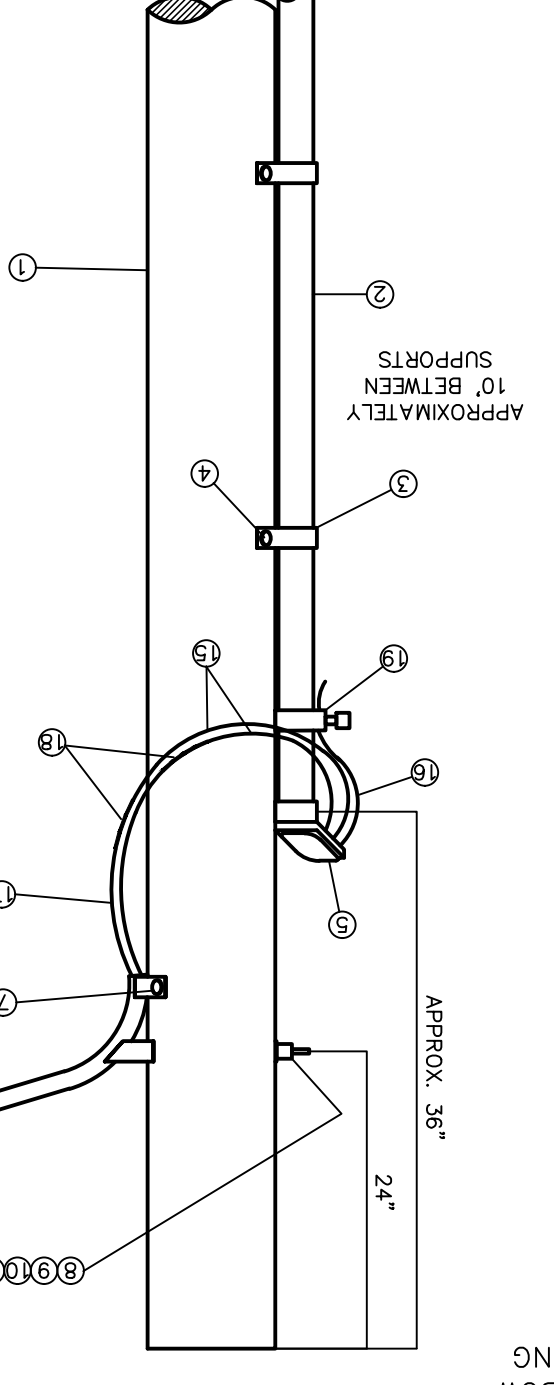
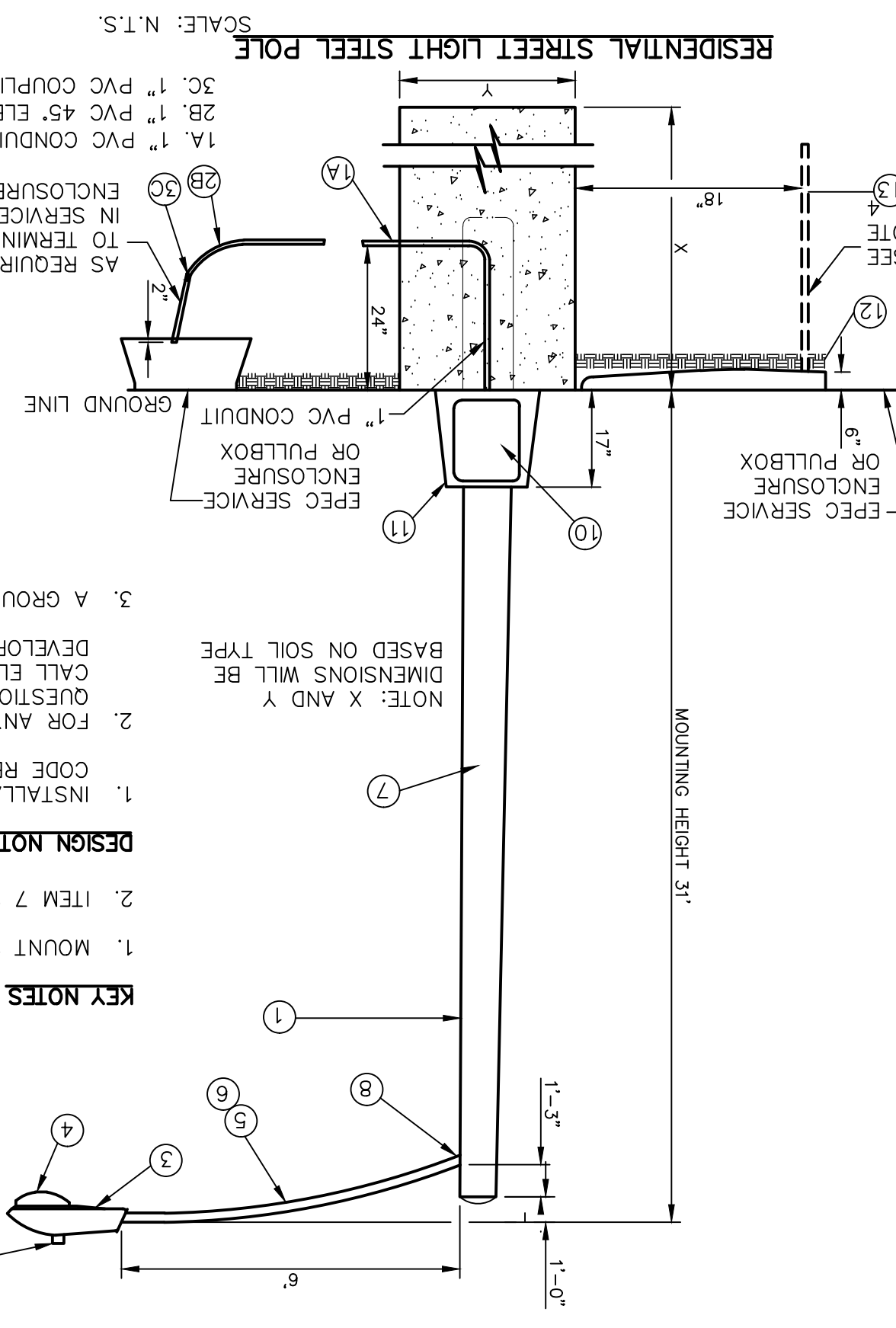
PROJECT TITLE
TRES SUEÑOS UNIT TWENTY TWO
REPLAT "A"
SUBDIVISION IMPROVEMENTS

SHEET TITLE
DRAINAGE
DETAILS

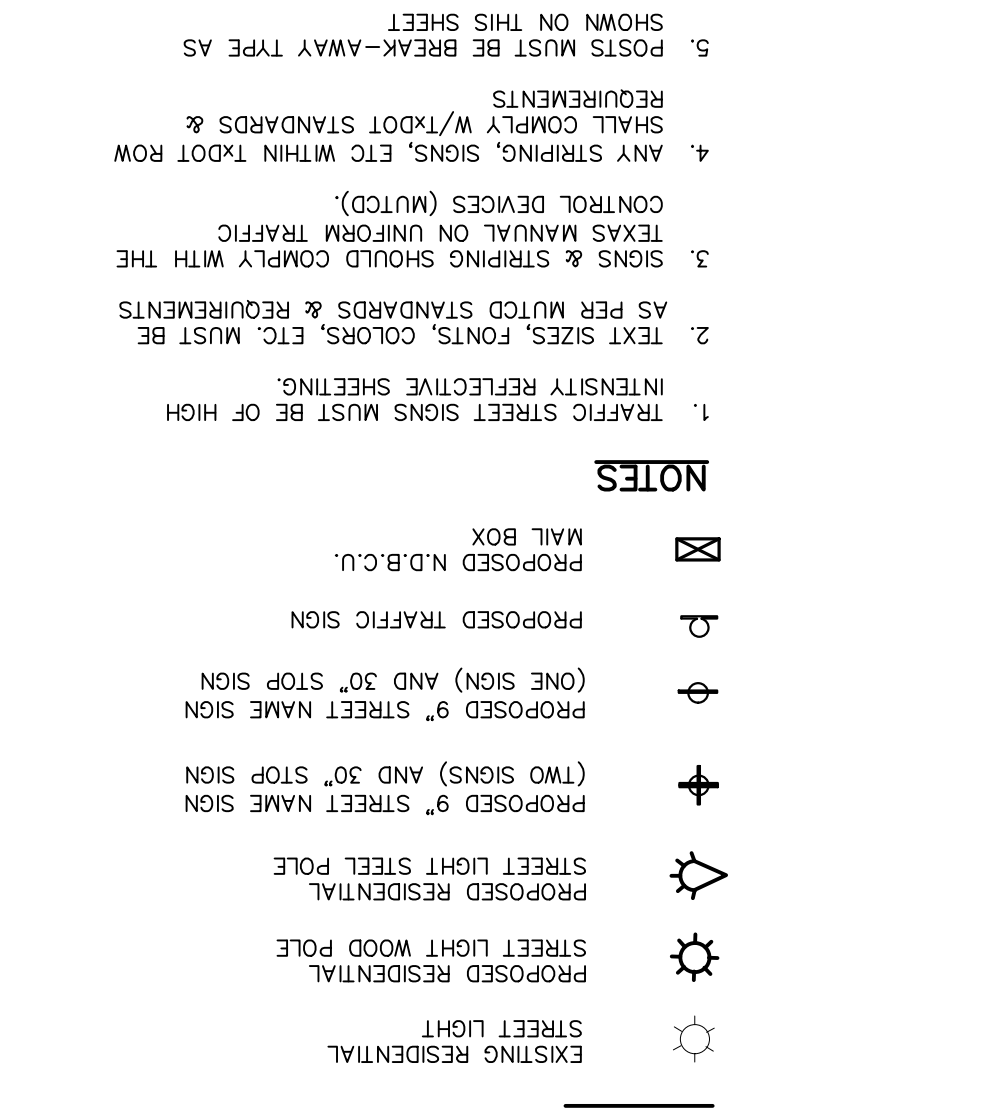
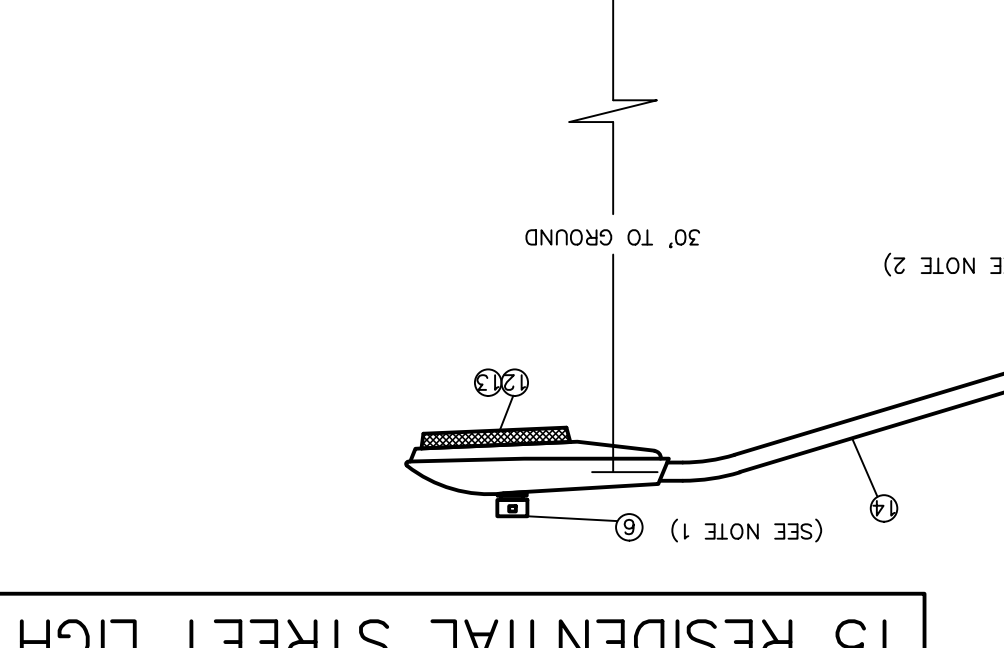
(SHEET 4 OF 5)
SHEET NO.
C10.4



ITEM NO.	DESCRIPTION	STOCK NO./D/SO	QTY.
1	POLE, 35 FT.-CLASS IV	009-035	1
2	WEATHERHEAD, 1/2" CONDUIT	017-293	1
3	LAG BOLT, 1/2" X 2"	002-330	6
4	PIPE STRAP FOR 1/2" CONDUIT, Z-HOLE	017-334	7
5	MAST ARM, 6" X 1-1/4"	21-200	1
6	#10 SOLID CABLE 600 V	013-600	AS REQ
7	CABLE, #10, 3 CONDUCTOR, 600 V, UF	013-600	1
8	SLEEVES, #12	05-145	1
9	ROADWAY LUMINAIRE HPS 150 WATTS	21-340	1
10	BREAK-A-WAY FUSES 30 AMP.	21-250	1
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	08-626	1



ITEM NO.	DESCRIPTION	STOCK NO./D/SO	QTY.
1	POLE, 35 FT.-CLASS IV	009-035	1
2	WEATHERHEAD, 1/2" CONDUIT	017-293	1
3	LAG BOLT, 1/2" X 2"	002-330	6
4	PIPE STRAP FOR 1/2" CONDUIT, Z-HOLE	017-334	7
5	MAST ARM, 6" X 1-1/4"	21-200	1
6	#10 SOLID CABLE 600 V	013-600	AS REQ
7	CABLE, #10, 3 CONDUCTOR, 600 V, UF	013-600	1
8	SLEEVES, #12	05-145	1
9	ROADWAY LUMINAIRE HPS 150 WATTS	21-340	1
10	BREAK-A-WAY FUSES 30 AMP.	21-250	1
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12	5/8" GROUND ROD CLAMP	07-561	1
13	5/8" X 10' CU BONDED GROUND ROD	08-626	1



UTILITY LOCATOR SERVICES
EL PASO ELECTRIC COMPANY (915) 543-5220
EL PASO ENERGY CORPORATION (915) 496-5244
EL PASO WATER UTILITIES (915) 594-5500
MCI SURVEILLANCE (800) MCI-WORK
TIME WARNER COMMUNICATIONS (915) 772-1123
TEXAS GAS SERVICE (800) 545-8000
SBC (800) 545-8000
AT&T (800) 521-0579
U.S. SPRINT TELECOMM (800) 521-0579

WARNING!
BEFORE YOU DIG
CALL 811

PROJECT TITLE
TRES SUEÑOS UNIT TWENTY TWO
REPLAT "A"
SUBDIVISION IMPROVEMENTS

ENGINEER'S SEAL
Oscar Villalobos
Professional Engineer
No. 88075
State of Texas
9/13/21

DATE: SEPTEMBER 2021
DESIGN BY: G.J.M.
DRAWN BY: E.Z.
CHKD. BY: J.L.A.
APP'D. BY: J.L.A.
JOB NO. 2000-228

REFERENCES - BENCHMARKS
CITY MONUMENT AT POINT OF CURVE CENTERLINE, RICH BEEM BLVD., S84°33' A DISTANCE OF 467.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF ELEVATION: 4014.90 (NAND 88) (4005.40 CITY DATUM)

REVISIONS

SCALE: 1" = 100'
Horizontal: N/A
Vertical: Interval N/A

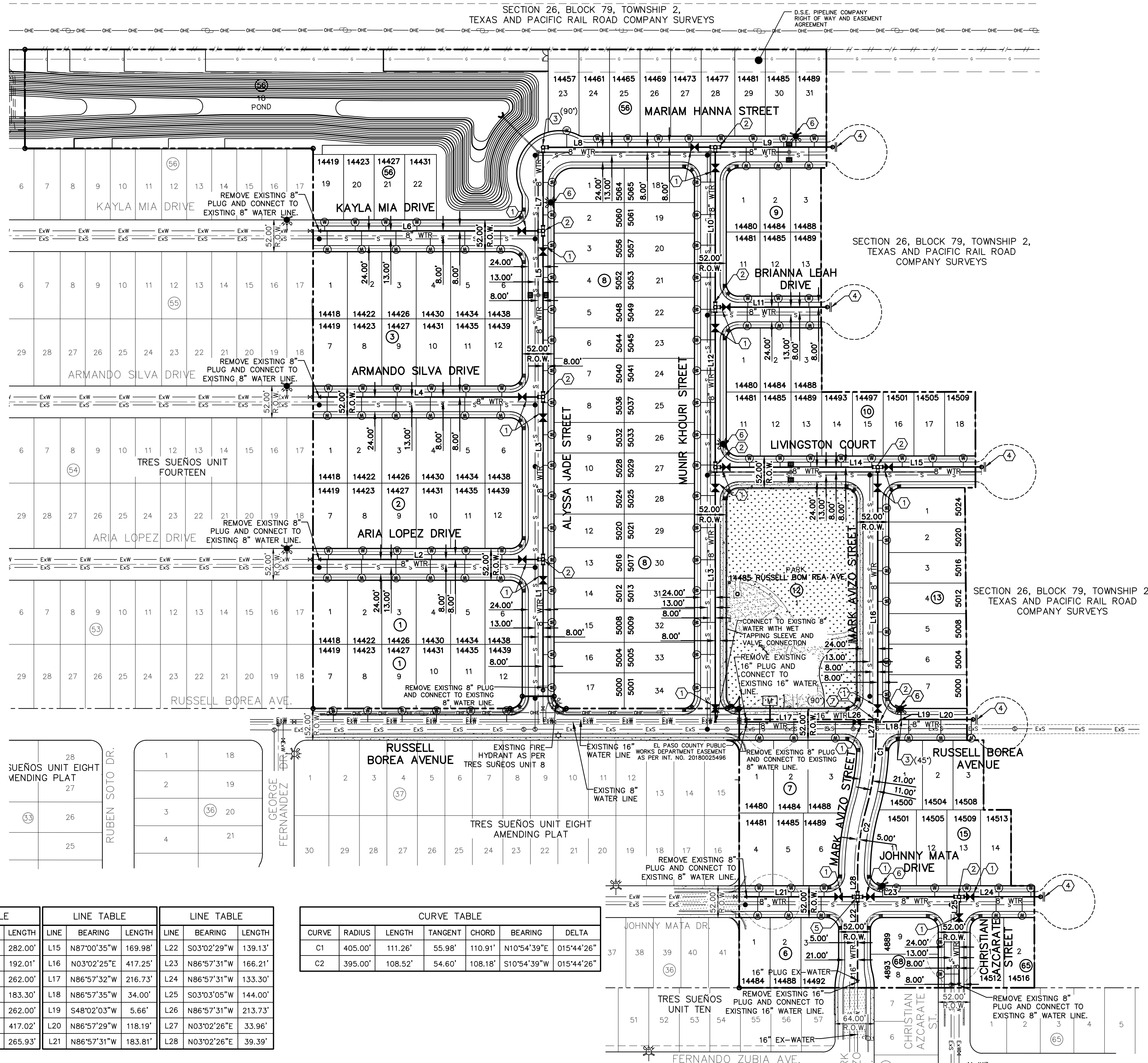
DATE: SEPTEMBER 2021
DESIGN BY: G.J.M.
DRAWN BY: E.Z.
CHKD. BY: J.L.A.
APP'D. BY: J.L.A.
JOB NO. 2000-228

SCALE: 1" = 100'
GRAPHIC SCALE (IN FEET) 1 inch = 100 ft.
SCALE: 1" = 100'

ILLUMINATION AND SIGNAGE PLAN

(SHEET 1 OF 2)
ILLUMINATION, SIGNAGE PLAN

SHEET NO.
C11.1



WATER QUANTITIES		
DESCRIPTION	QUANTITY	UNIT
8" PVC WATER LINE	5442	LF
16" PVC WATER LINE	646	LF
8" GATE VALVE	21	EA
8" PLUG	5	EA
8" 90° BEND	1	EA
8" 45° BEND	2	EA
8" TEE	9	EA
16" 90° BEND	1	EA
16"x16"x8"x8" CROSS	1	EA
FIRE HYDRANT	5	EA
3/4" SERVICE LINE	127	EA
2" YARD METER	1	EA

WATER KEYED NOTES	
(1)	8" GATE VALVE
(2)	8" TEE
(3)	8" BEND
(4)	8" PLUG
(5)	16"x16"x8"x8" CROSS
(6)	FIRE HYDRANT
(7)	16" BEND



Oscar Villalobos
 BY
 CONTRACTOR SHALL VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.

WATER INDEX MAP
 SCALE: 1" = 100'

INDEX

SHEET NO.	DESCRIPTION
C12.1	TRES SUEÑOS UNIT TWENTY TWO WATER MAIN PIPE LAYOUT
C12.2	WATER DETAILS
C12.3	WATER DETAILS
C12.4	WATER DETAILS
C12.5	WATER DETAILS

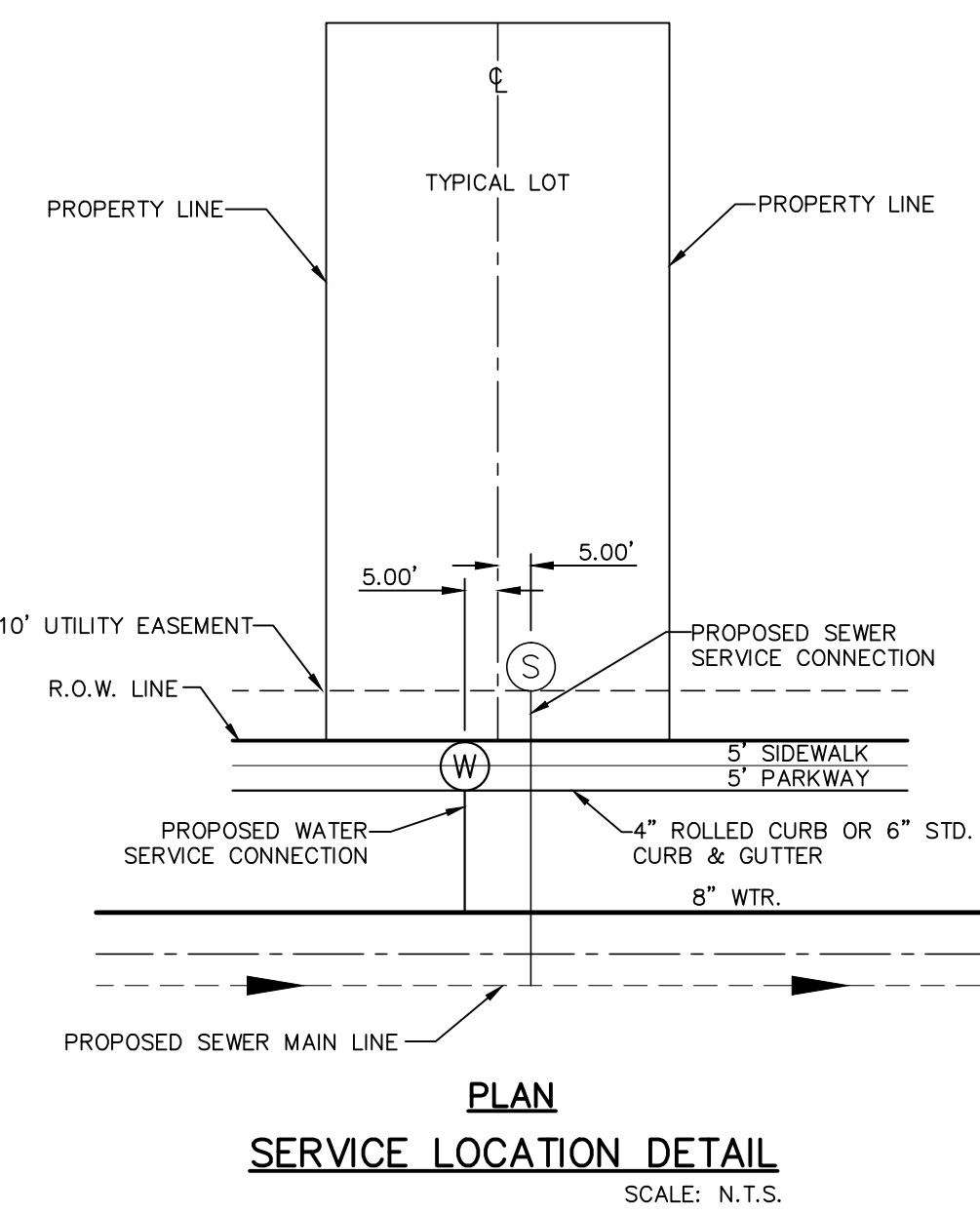
NOTES:

- ALL LOTS SHALL BE PROVIDED WITH ONE SERVICE CONNECTION TO BE INSTALLED AT THE LOCATION AS SHOWN ON THE SERVICE LOCATION DETAIL.
- ALL WATER LINES SHALL BE PVC C-900, CLASS 235.
- REFERENCE WATER DETAILS FOR TYPICAL VALVE AND WATER LOCATIONS AT STREET INTERSECTIONS.
- REFERENCE WATER DETAILS FOR WATER LINE CROSSING STORM SEWER.

LEGEND

SYMBOL	DESCRIPTION
8" WTR.	PROPOSED 8" C-900, DR18 P.V.C. PIPE
16" WTR.	PROPOSED 16", C-900, DR14 P.V.C. PIPE, UNLESS OTHERWISE SPECIFIED
---	SUBDIVISION BOUNDARY LINE
---	PROPERTY LINE
---	STREET CENTER LINE
8" SWR	PROPOSED SEWER LINE (PLAN VIEW)
---	PROPOSED STORM SEWER
+	PROPOSED WATER CROSS CONNECTION
+	PROPOSED WATER TEE CONNECTION
+	PROPOSED WATER BEND CONNECTION
+	PROPOSED SERVICE CONNECTION (PLAN VIEW)
+	PROPOSED FIRE HYDRANT, KENNEDY OR MUELLER MODEL
+	PROPOSED 8" PLUG
+	PROPOSED GATE VALVE
+	POINT OF TANGENCY
+	REDUCER
+	PROPOSED 2" IRRIGATION METER
+	EXISTING GATE VALVE
+	EXISTING FIRE HYDRANT
+	EXISTING PLUG
---	EXISTING SEWER LINE
---	EXISTING WATER LINE

09/22/2021
 DATE



PLAN SERVICE LOCATION DETAIL
 SCALE: N.T.S.

LINE TABLE			LINE TABLE			LINE TABLE			LINE TABLE		
LINE	BEARING	LENGTH	LINE	BEARING	LENGTH	LINE	BEARING	LENGTH	LINE	BEARING	LENGTH
L1	N03°02'29"E	214.00'	L8	S87°00'35"E	282.00'	L15	N87°00'35"W	169.98'	L22	S03°02'29"W	139.13'
L2	N86°57'31"W	366.56'	L9	S87°00'35"E	192.01'	L16	N03°02'25"E	417.25'	L23	N86°57'31"W	166.21'
L3	N03°02'24"E	266.00'	L10	N03°02'29"E	262.00'	L17	N86°57'32"W	216.73'	L24	N86°57'31"W	133.30'
L4	N86°57'31"W	366.57'	L11	S87°00'31"E	183.30'	L18	N86°57'35"W	34.00'	L25	S03°03'05"W	144.00'
L5	N03°02'29"E	272.00'	L12	N03°02'29"E	262.00'	L19	S48°02'03"W	5.66'	L26	N86°57'31"W	213.73'
L6	N86°57'31"W	366.57'	L13	N03°02'29"E	417.02'	L20	N86°57'29"W	118.19'	L27	N03°02'26"E	33.96'
L7	N03°02'29"E	136.76'	L14	N87°00'35"W	265.93'	L21	N86°57'31"W	183.81'	L28	N03°02'26"E	39.39'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	405.00'	111.26'	55.98'	110.91'	N10°54'39"E	015°44'26"
C2	395.00'	108.52'	54.60'	108.18'	S10°54'39"W	015°44'26"

GENERAL NOTES

- UNLESS OTHERWISE SHOWN ON THE DRAWINGS, THE PROPOSED WATER MAINS SHALL BE INSTALLED NO LESS THAN TEN (10') FEET AWAY FROM EXISTING SEWER LINE. SEPARATIONS DISTANCES SHALL FOLLOW TCEQ STANDARD REQUIREMENTS (§290.44).
- THE INTENT OF THE OWNER IS TO HAVE THE WATER MAINS INSTALLED TO SUCH A DEPTH THAT THEY WILL HAVE AT LEAST SIXTY (60") INCHES FROM INVERT OF PIPELINE TO PROPOSED ELEVATIONS AT ALL LOCATIONS. THE PIPELINES SHALL HAVE NO DIPS. ELEVATIONS AT ALL LOCATIONS. THE PIPELINES SHALL HAVE NO DIPS, SAGS OR HUMPS OR OTHER IRREGULARITIES IN VERTICAL ALIGNMENT. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO INSTALLING THE WATER PIPELINE SO THAT AN ACCEPTABLE PROFILE CAN BE ESTABLISHED PRIOR TO INSTALLATION OF THE PIPELINE.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE ALL UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN IN THE PLANS, AND COORDINATE WORK WITH ALL UTILITY COMPANIES, EL PASO WATER UTILITIES AND CITY OF EL PASO.
- TRENCH SAFETY REQUIREMENTS SHALL BE AS REQUIRED BY OSHA.
- AS-BUILT STATIONING, OFFSET FROM R.O.W. AND INVERT ELEVATIONS SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR ON A CLEAN SET OF PLANS FOR EACH VALVE, FIRE HYDRANT, ELBOW, SERVICE CONNECTION AND/OR STUB-OUT, WITH RESPECT TO THE APPROPRIATE PROJECT CONTROL POINT.
- THE EL PASO WATER UTILITIES AND CITY OF EL PASO MUST BE NOTIFIED FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING ANY WORK IN AREAS WITHIN THEIR JURISDICTION.
- EXISTING STREETS, DRIVEWAYS, PARKING LOTS, MAILBOXES, SIGNS, CHAIN-LINK FENCES, AND ALL OTHER MISCELLANEOUS STRUCTURES DAMAGE OR REMOVED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL OR BETTER THAN ORIGINAL CONDITION AT NO COST TO OWNER.
- TRAFFIC CONTROL SHALL BE IN PLACE PRIOR TO INITIATING WORK.
- ALL TIE-INS SHALL BE CLOSELY COORDINATED WITH THE EL PASO WATER UTILITIES AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO ACTUAL CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE THE REQUIRED COUPLINGS, ELBOWS AND NECESSARY PIPING APPURTENANCES FOR A COMPLETE AND OPERATIONAL WATER SYSTEM.
- ALL NEW VALVES SHALL BE ALIGNED PERPENDICULAR TO PROPERTY LINES.
- CONSTRUCTION OF THE PUBLIC WATER AND SEWER SYSTEM INCLUDING MATERIALS AND TESTING SHALL CONFORM EPWU-PSB SPECIFICATIONS FOR THE INSTALLATION OF WATER MAINS, SEWER MAINS AND RELATED APPURTENANCES.
- FIRE HYDRANTS SHALL BE INSTALLED IN THE PARKWAY AREA.
- THE WATER METERS FOR THE PROPOSED WATER SERVICE CONNECTIONS SHALL BE INSTALLED ON THE PARKWAYS. SYMBOLS ARE ONLY SHOWN FOR DEPICTION PURPOSES ONLY.

GENERAL UTILITIES:

TEXAS EXCAVATION SAFETY SERVICE
 11884 GREENVILLE AVENUE
 DALLAS, TX. 75243
 (800) 344-8377

ENGINEER:

CEA GROUP
 813 N. KANSAS ST., STE. 300
 UPTOWN CENTRE
 EL PASO, TX. 79902
 (915) 544-5232
 MR. JORGE L. AZCARATE, P.E.

FIBER OPTICS:

U.S. SPRINT
 151 N. BOONE ST.
 EL PASO, TX. 79905
 (915) 534-7910

FIBER OPTICS:

MCI TELECOMMUNICATIONS CORP.
 4045 DONIPHAN PARK CIRCLE
 EL PASO, TX. 79922
 (915) 542-2770 EXT. 201

WATER & SEWER:

EL PASO WATER UTILITIES
 1154 HAWKINS BOULEVARD
 EL PASO, TX. 79935
 (915) 594-5530

ELECTRIC:

EL PASO ELECTRIC CO.
 501 W. SAN ANTONIO ST.
 EL PASO, TX. 79902
 (915) 543-2076

EL PASO STREETS

EL PASO STREETS DEPARTMENT
 7969 SAN PAULO DR.
 EL PASO, TX. 79907
 (915) 621-6750

CABLE TELEVISION:

TIME WARNER COMMUNICATIONS
 7010 AIRPORT ROAD
 EL PASO, TX. 79906
 (915) 772-1123

TELEPHONE:

SBC
 11200 PELICANO
 EL PASO, TX. 79935
 (915) 595-5151

FIBER OPTICS:

AT&T
 P.O. BOX 1650
 EL PASO, TX. 79949
 (1800) 852-3786

RESIDENTIAL GAS LINES:

TEXAS GAS SERVICE
 4700 POLLARD ST.
 EL PASO, TX. 79930
 (915) 680-7218

WARNING!
BEFORE YOU DIG
CALL 811
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
 CITY MONUMENT AT POINT OF CURVE CENTERLINE, RICH BEEM BLVD., S08°43'31" A DISTANCE OF 487.59 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
 ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)

813 N. Kansas St.
 Suite 300
 El Paso, TX 79902
 915.544.5232
 www.ceagroup.net

CEA GROUP
 TEXAS REGISTERED ENGINEERING FIRM F-4564

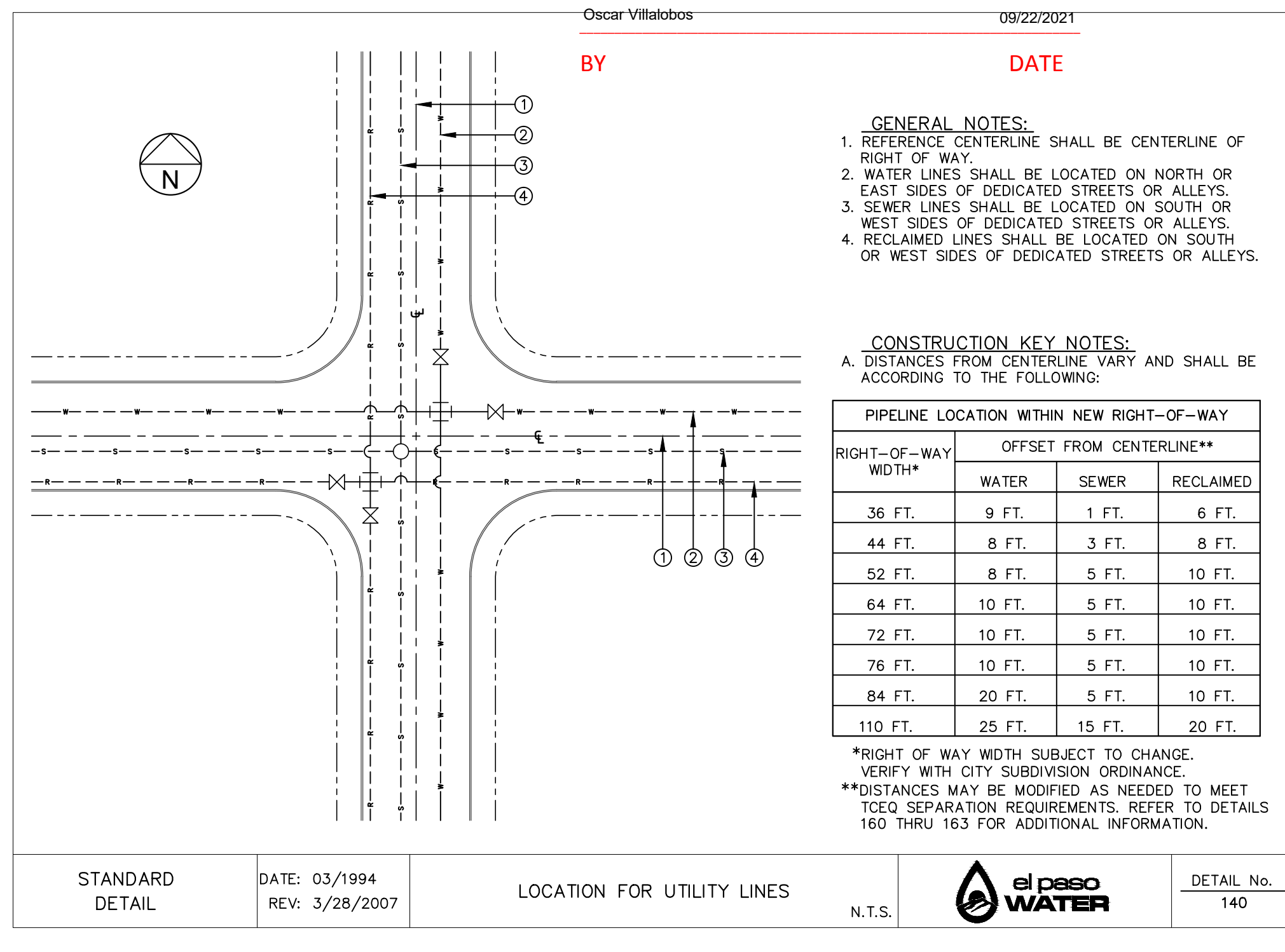
ENGINEER'S SEAL
 JORGE L. AZCARATE
 8085
 9/13/21

SCALE: 1" = 100'
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 Vertical: N/A
 Contour Interval: N/A
 DATE: SEPTEMBER 2021
 DESIGN BY: G.J.M.
 DRAWN BY: E.Z.
 CHKD. BY: F.Z.
 APPVD. BY: J.L.A.
 JOB NO.: 2000-228

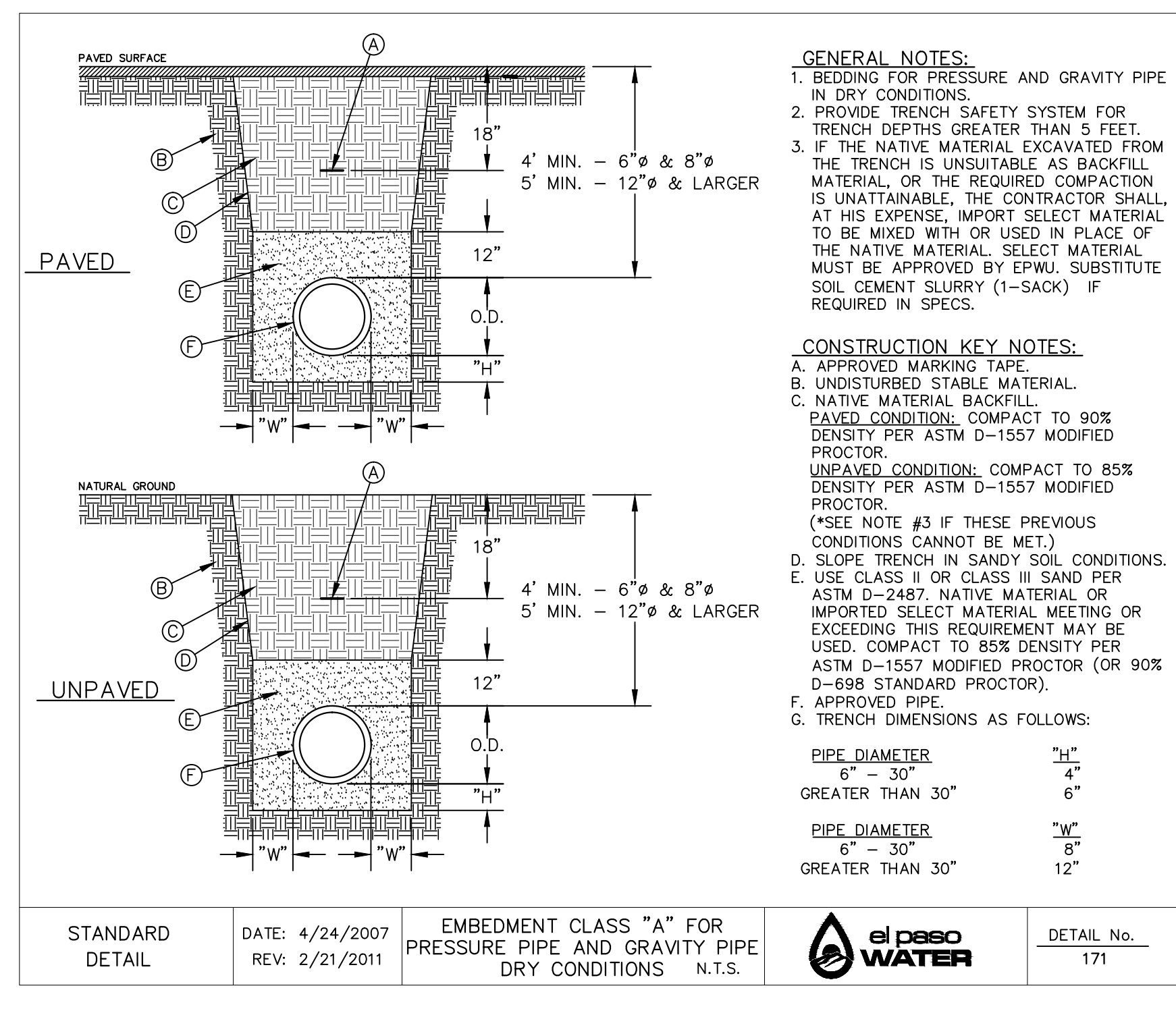
PROJECT TITLE
TRES SUEÑOS UNIT TWENTY TWO REPLAT "A" SUBDIVISION IMPROVEMENTS

SHEET TITLE
WATER INDEX

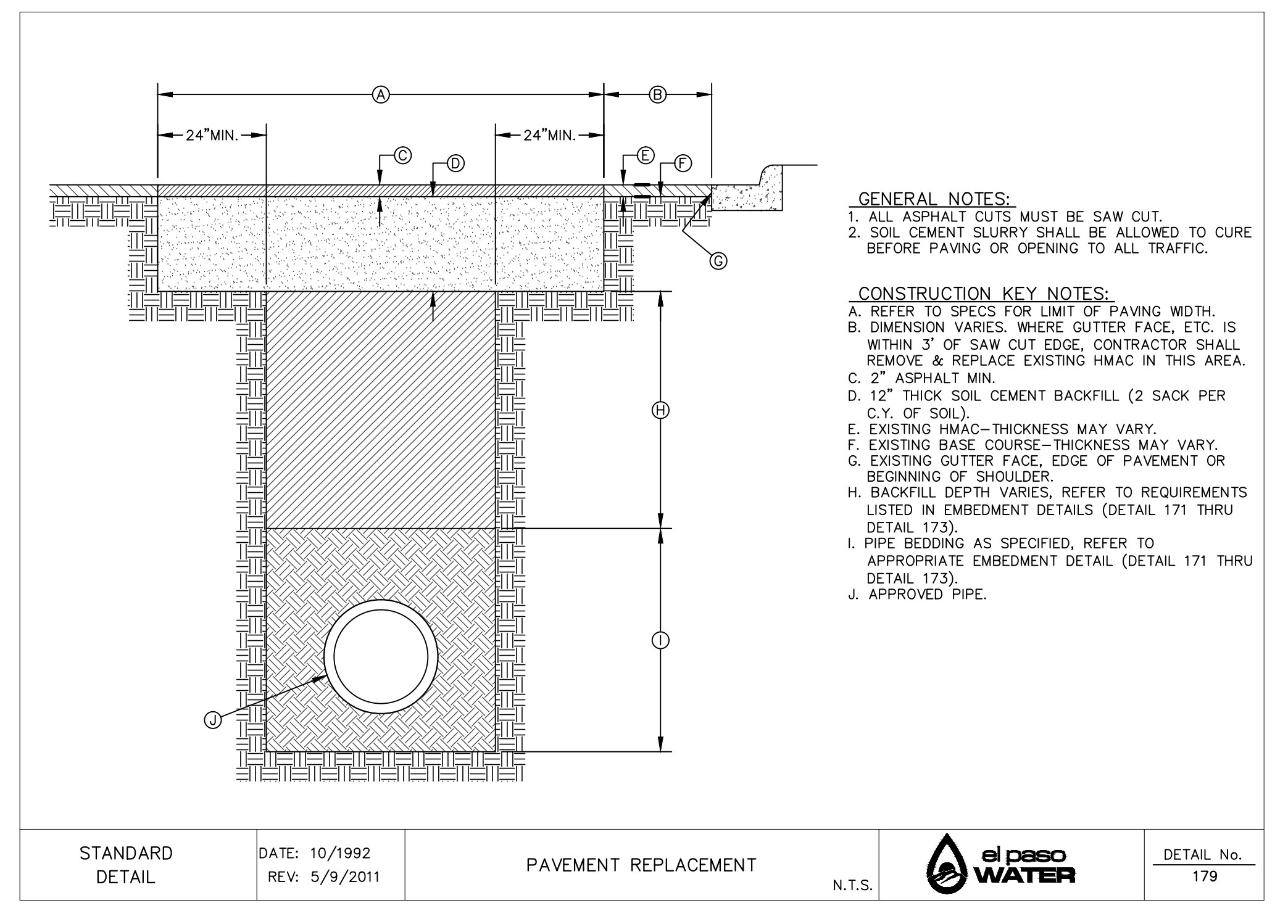
SHEET NO.
C12.1



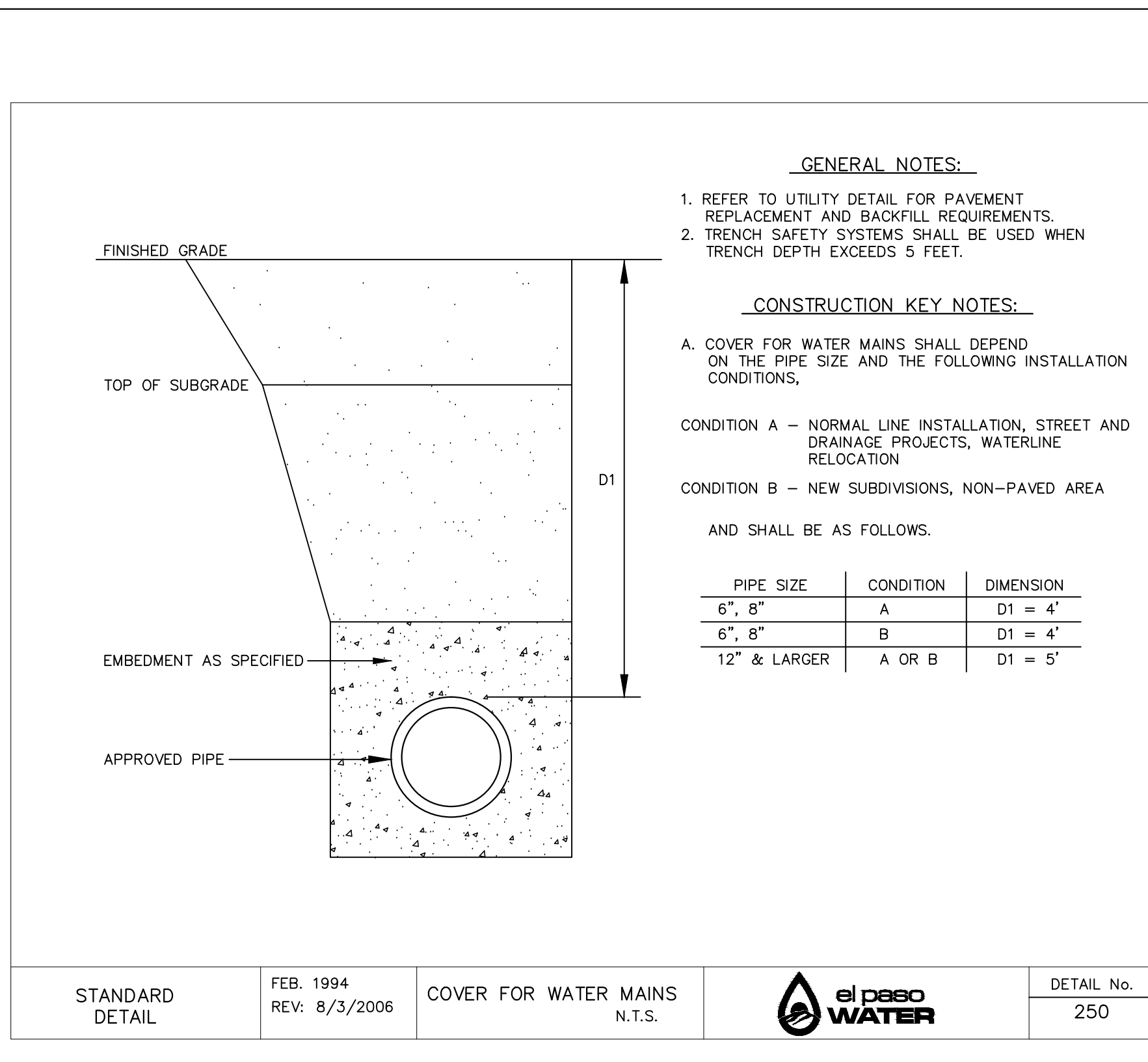
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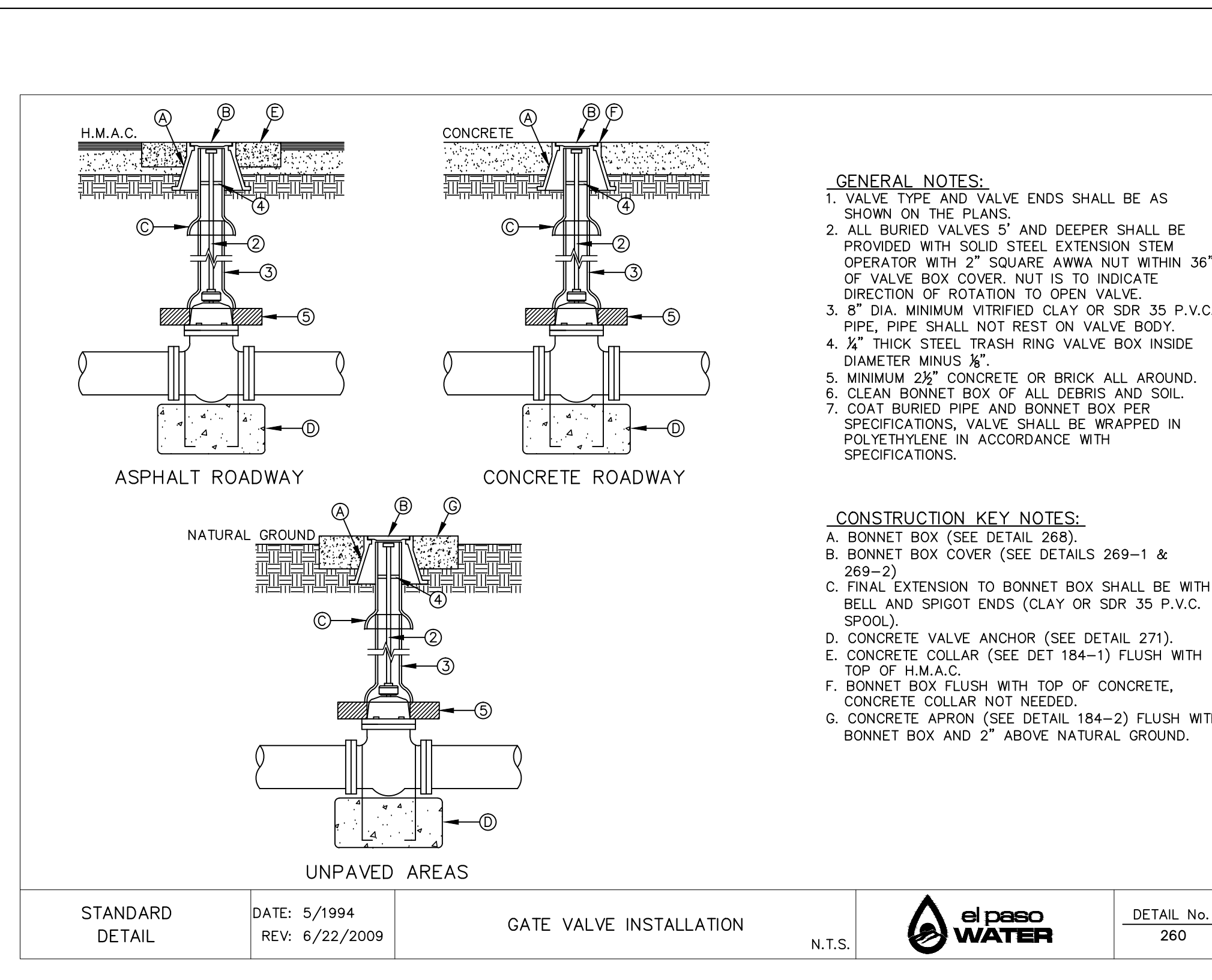
2 BEDDING CLASS DETAILS FOR P.V.C. PRESSURE PIPE SCALE: NTS



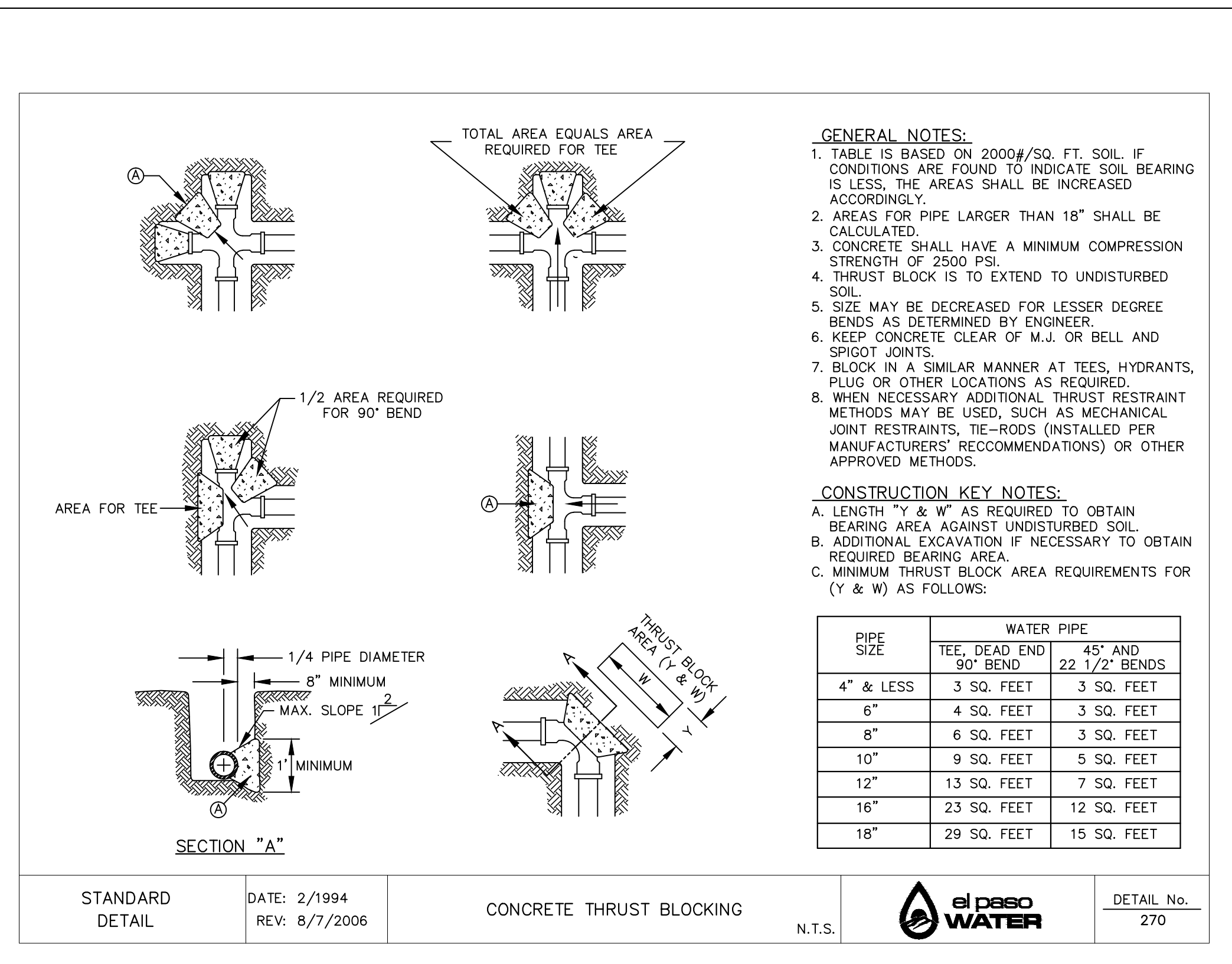
3 PAVEMENT REPLACEMENT SCALE: NTS



4 COVER FOR WATER MAINS SCALE: NTS



5 GATE VALVE INSTALLATION SCALE: NTS



6 CONCRETE THRUST BLOCKING SCALE: NTS

REFERENCES - BENCHMARKS
 CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD., S08°43'31" A DISTANCE OF 487.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
 ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)

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ENGINEER'S SEAL
 JORGE L. AZCARRATE
 8075
 9/13/21

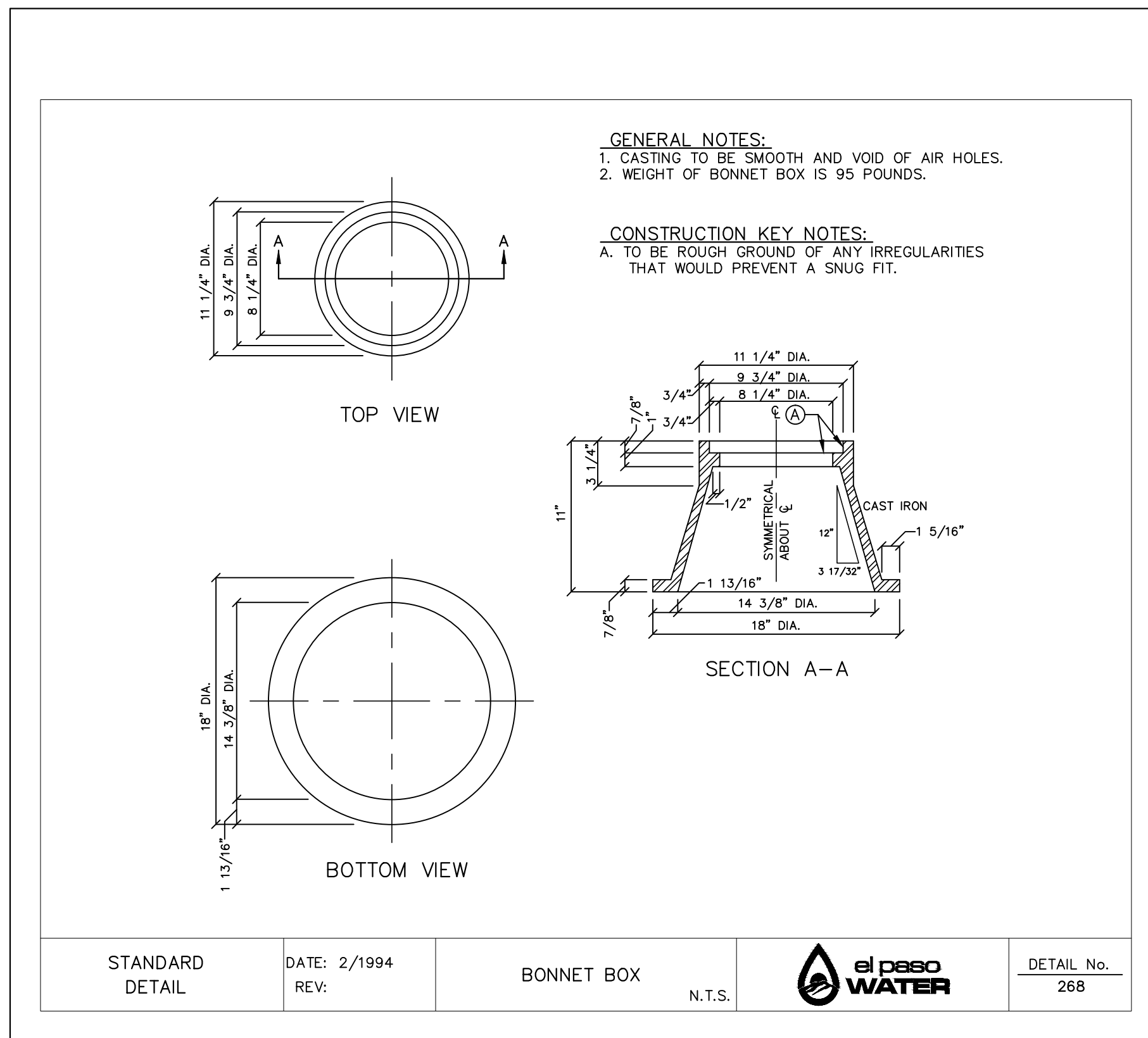
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 Vertical: N/A
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 DATE: SEPTEMBER 2021
 DESIGN BY: G.J.M.
 DRAWN BY: E.Z.
 CHKD. BY: F.Z.
 APPVD. BY: J.L.A.
 JOB No.: 2000-228

PROJECT TITLE
 TRES SUEÑOS UNIT TWENTY TWO
 REPLAT "A"
 SUBDIVISION IMPROVEMENTS

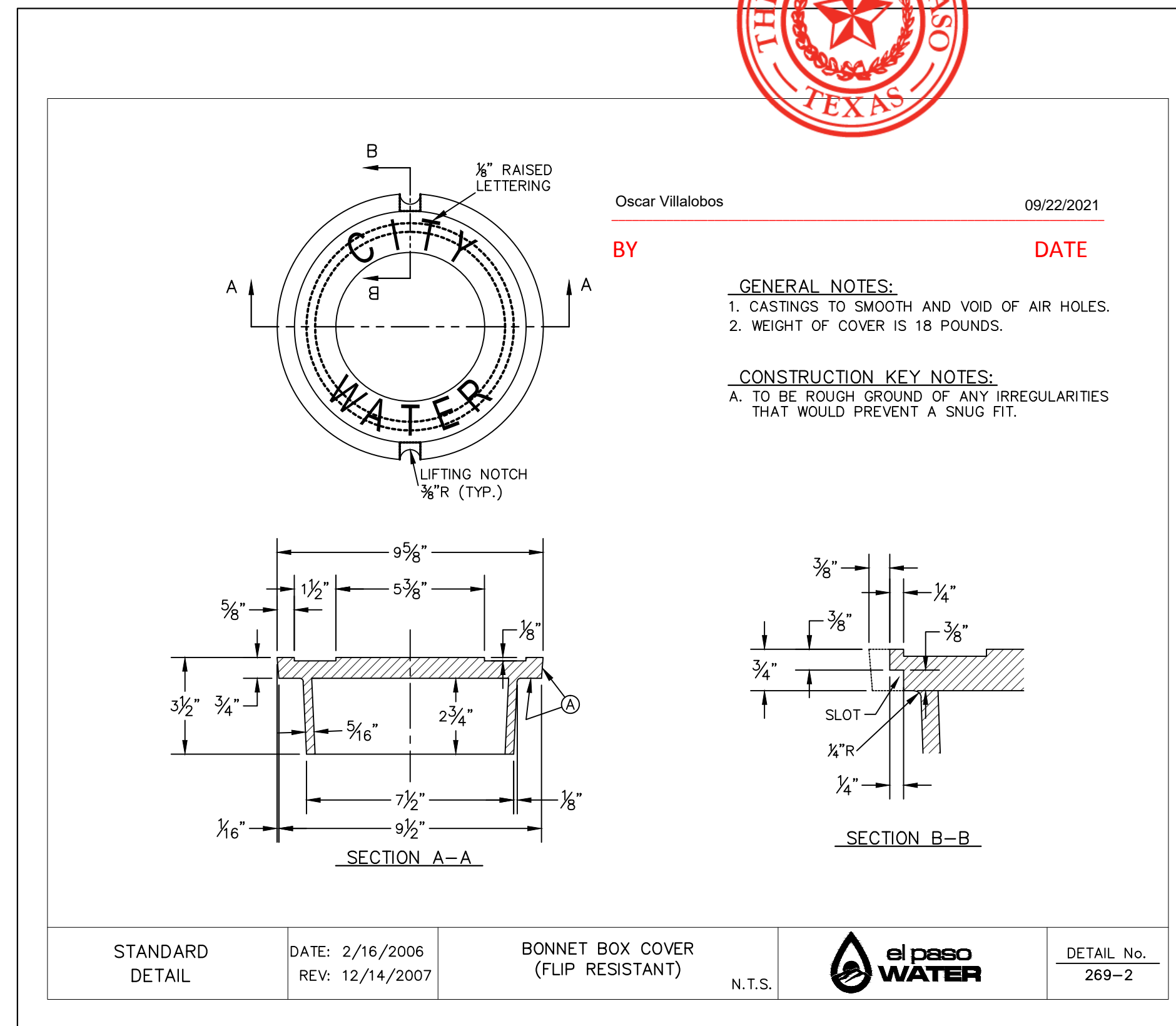
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 WATER DETAILS

(SHEET 1 OF 4)
 SHEET NO.

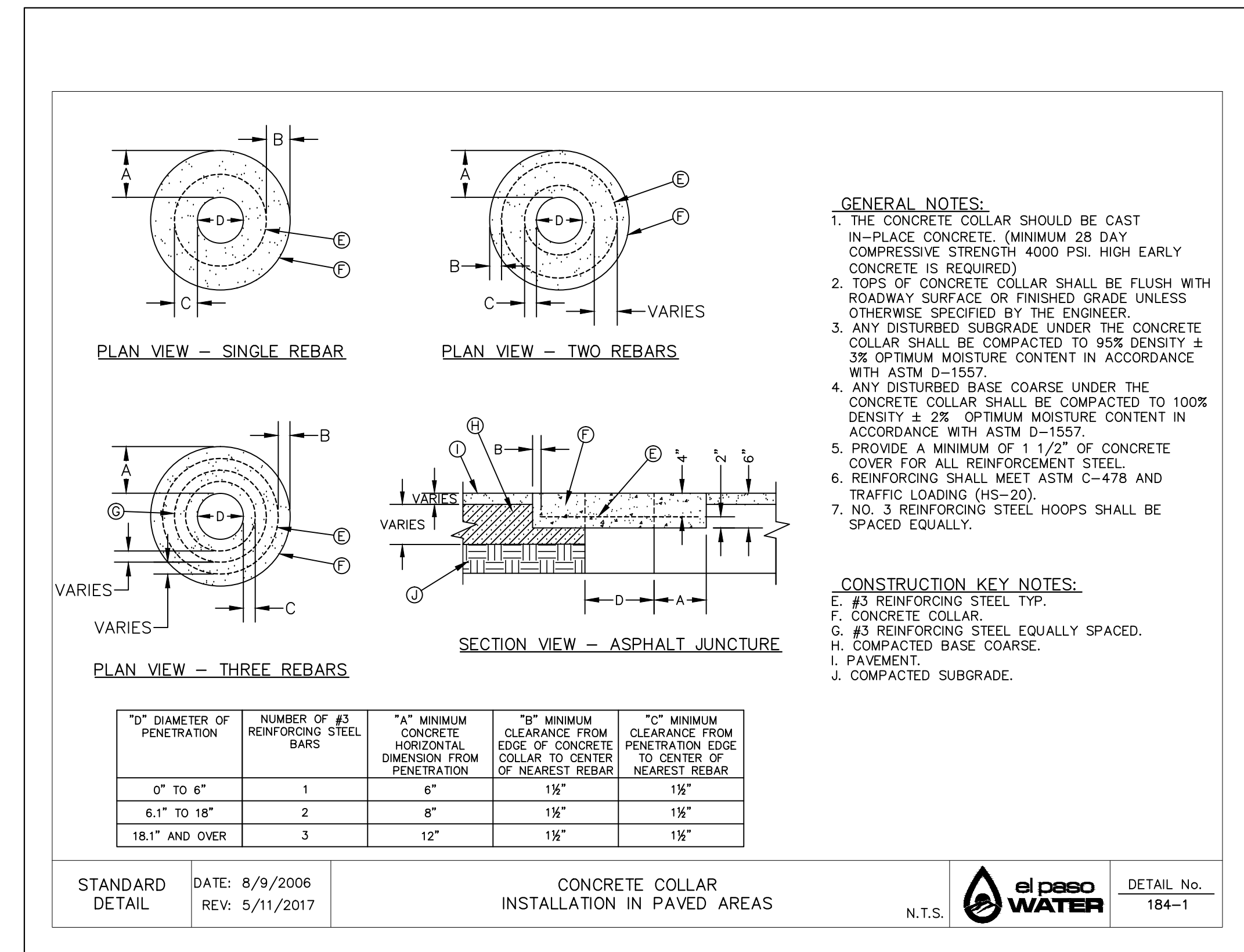
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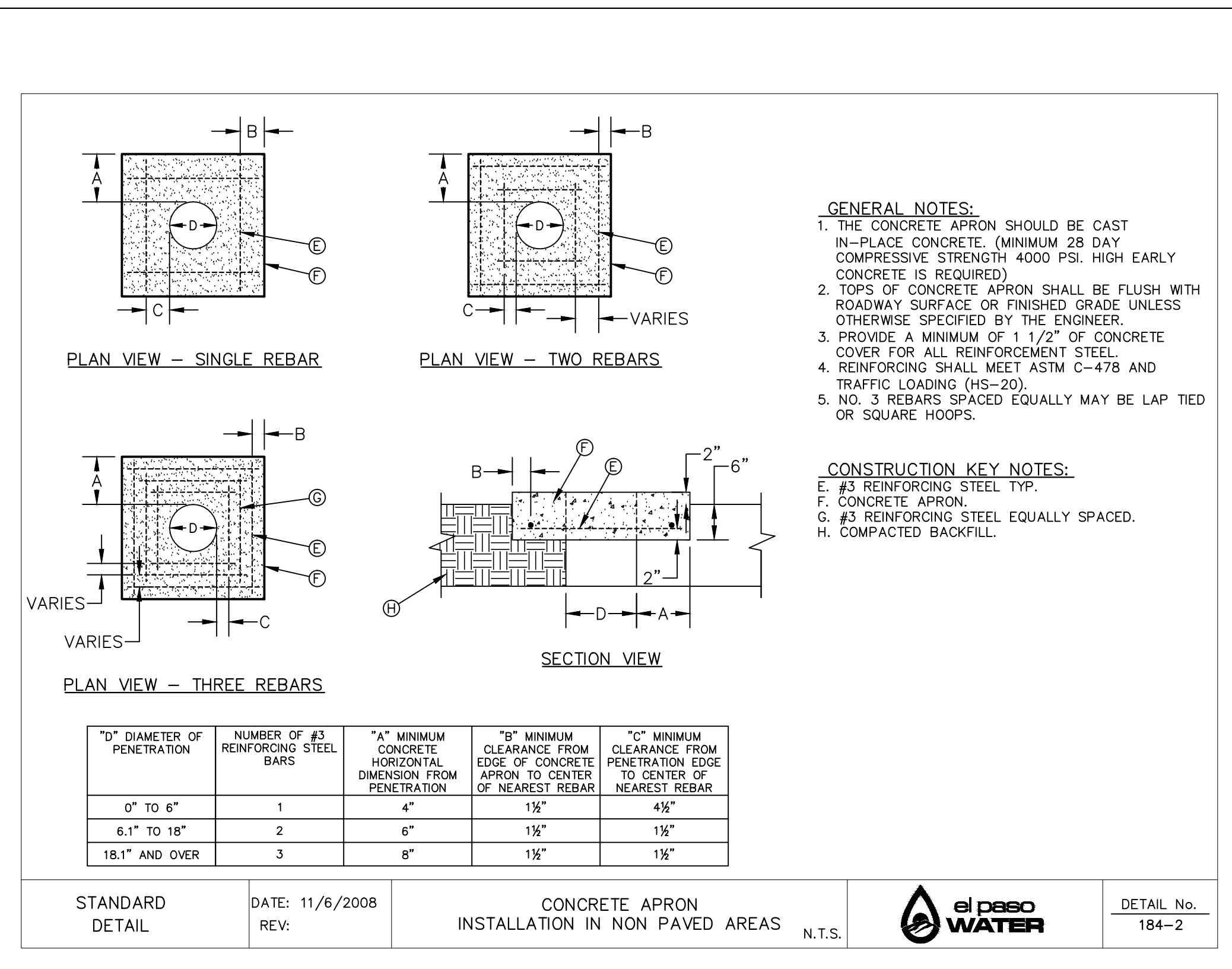
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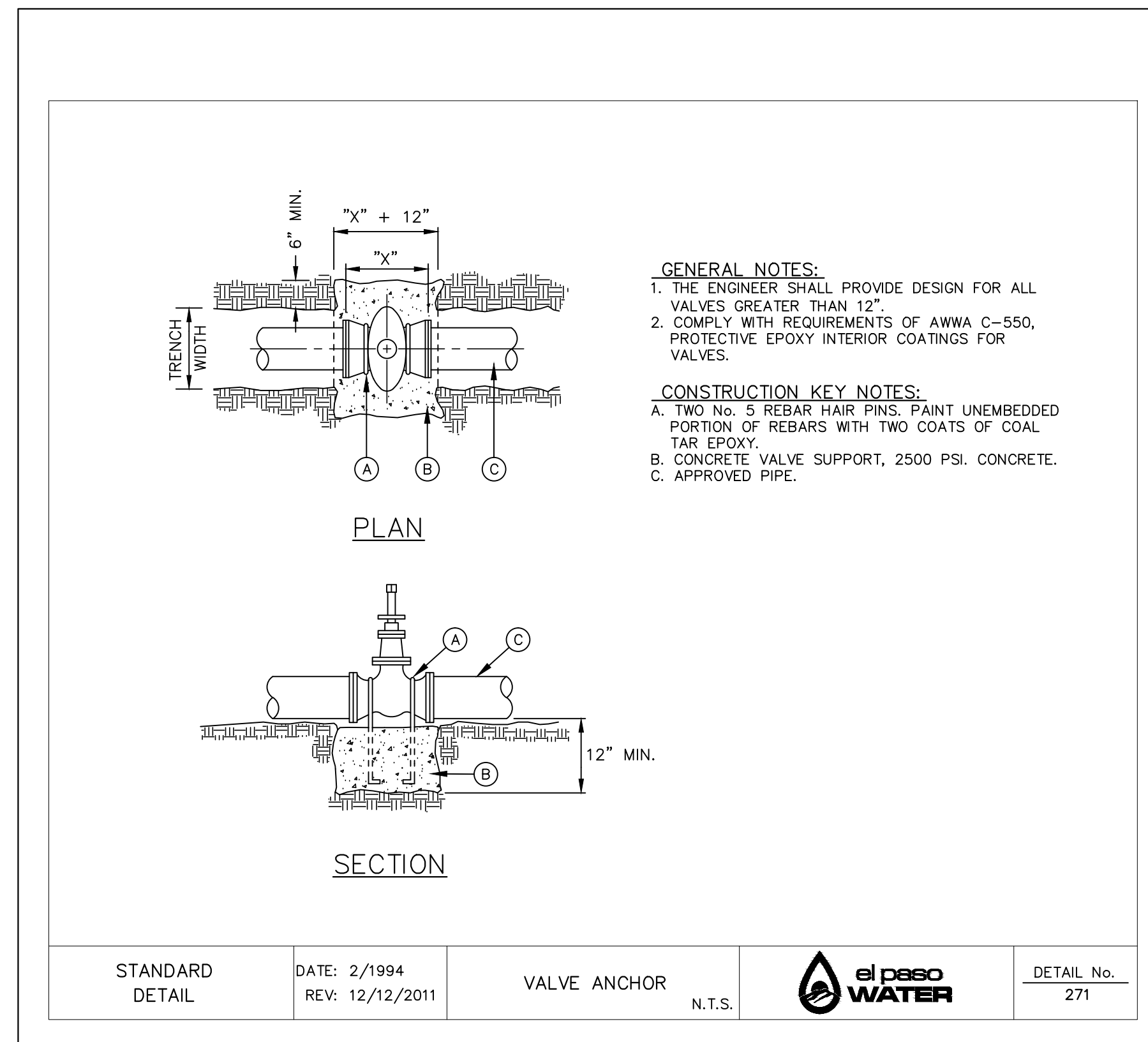
2 BONNET BOX COVER SCALE: NTS



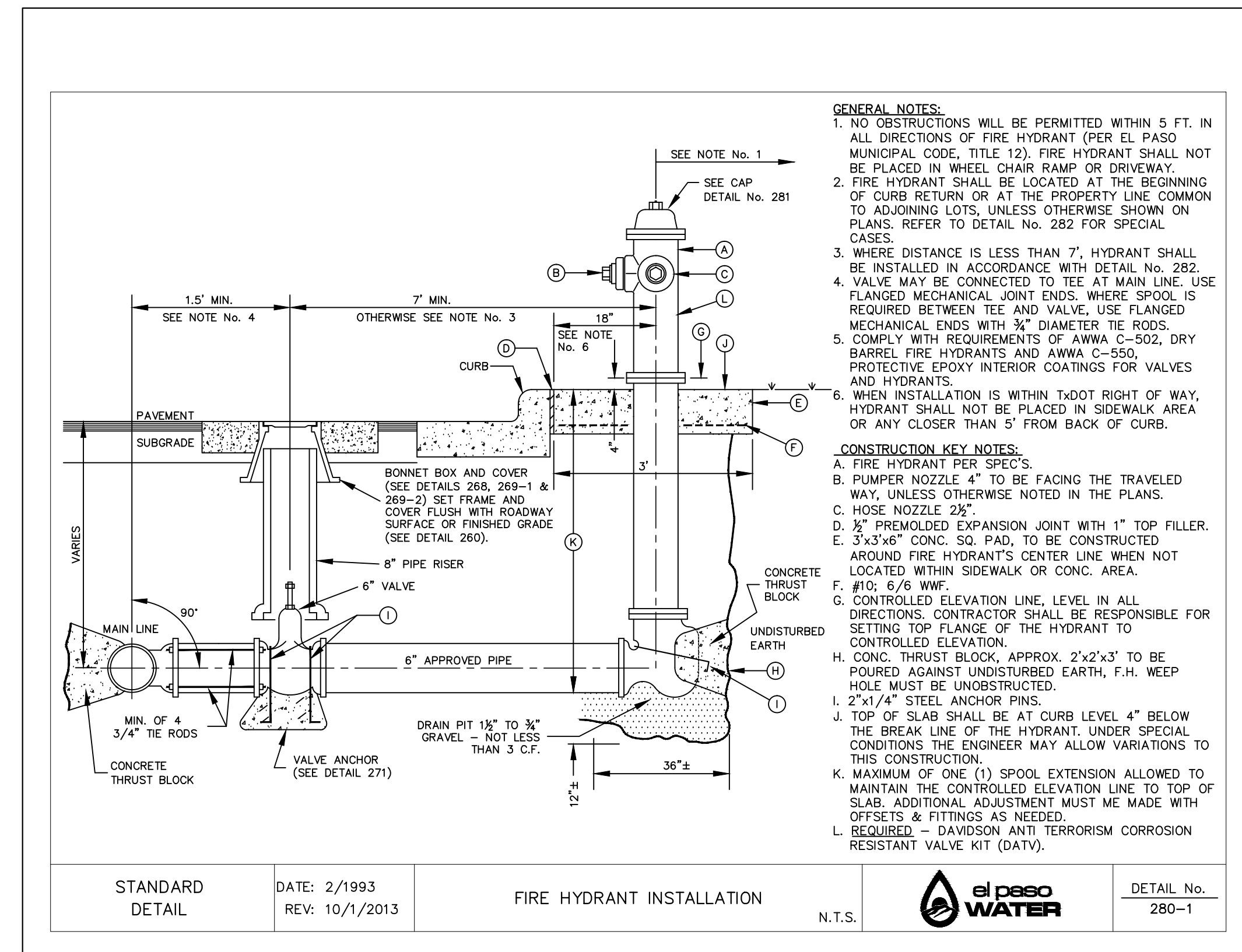
3 CONCRETE COLLAR INSTALLATION IN PAVED AREAS SCALE: NTS



4 CONCRETE COLLAR INSTALLATION IN NON PAVED AREAS SCALE: N.T.S.



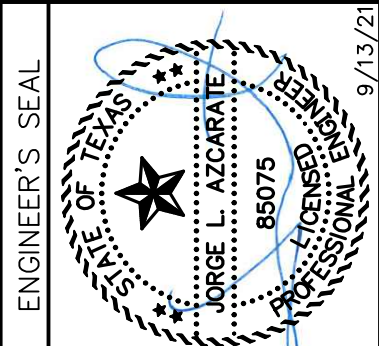
5 VALVE ANCHOR SCALE: N.T.S.



6 FIRE HYDRANT INSTALLATION SCALE: N.T.S.

REFERENCES - BENCHMARKS
 CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD., 508'43.31" A DISTANCE OF 487.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
 ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)
 DATE: REVISIONS: BY:

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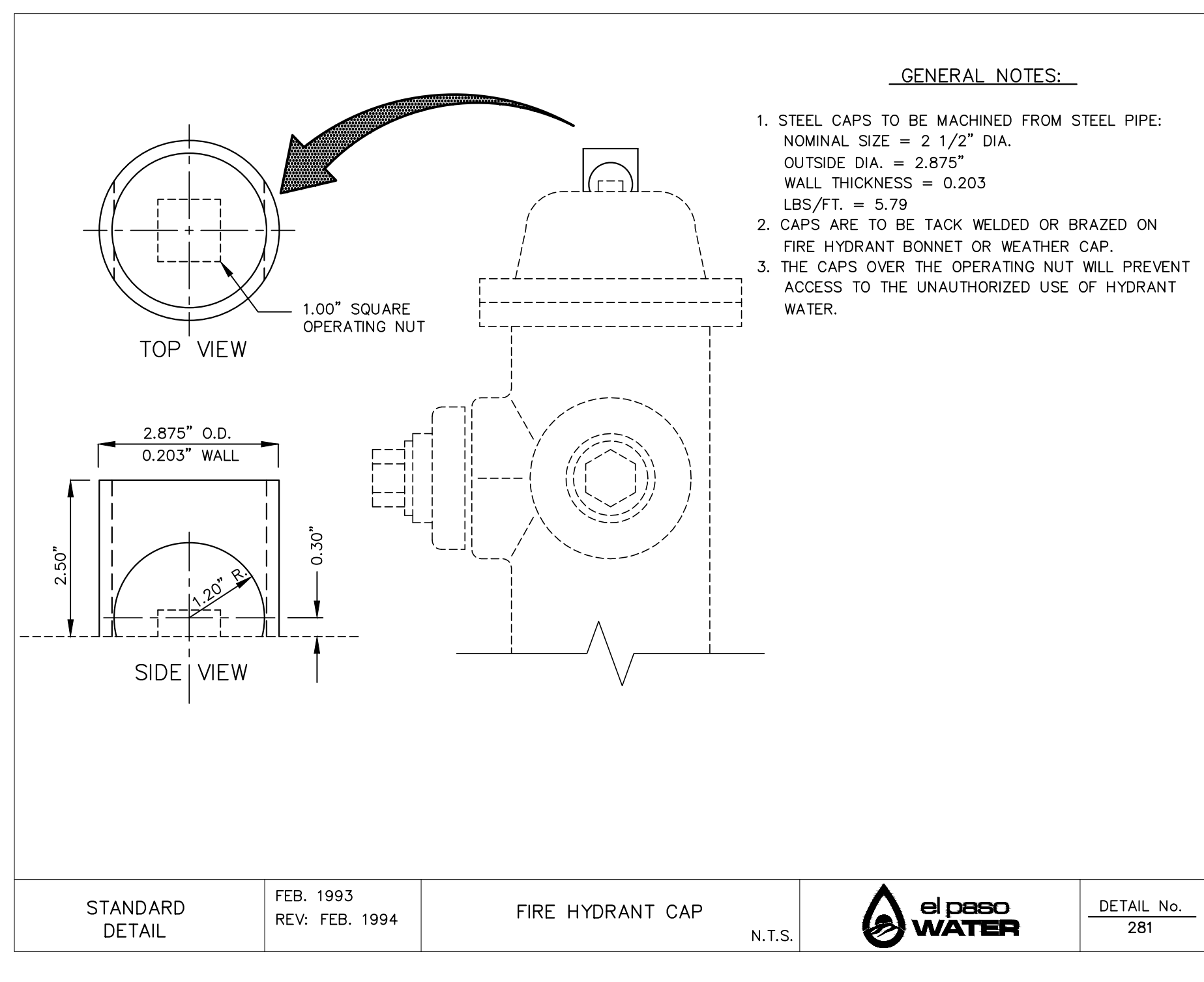


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 Contour Interval: N/A
 DATE: SEPTEMBER 2021
 DESIGN BY: G.J.M.
 DRAWN BY: E.Z.
 CHKD. BY: F.Z.
 APPVD. BY: J.L.A.
 JOB No.: 2000-228
 9/13/21

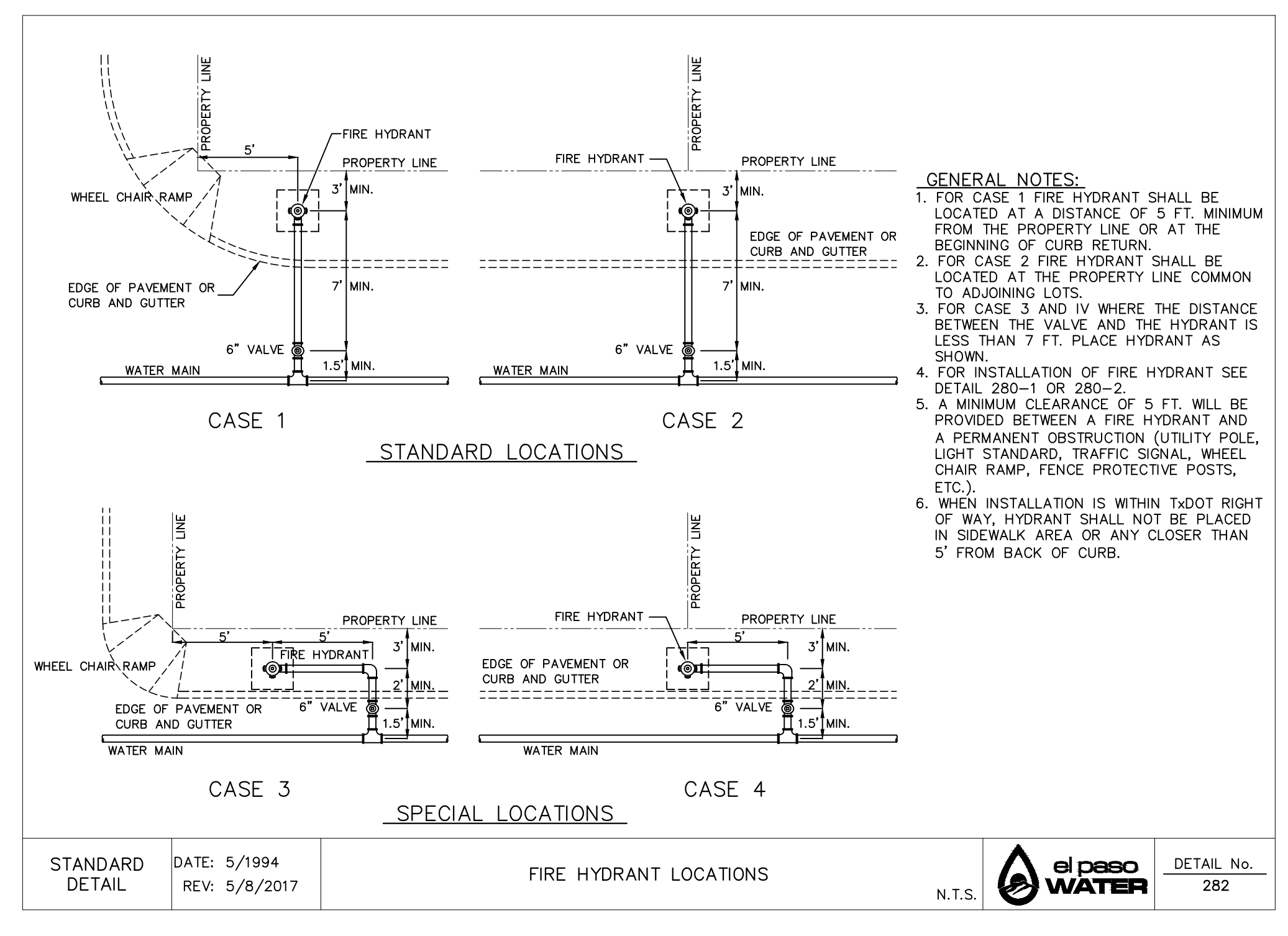
PROJECT TITLE
 TRES SUEÑOS UNIT TWENTY TWO
 REPLAT "A"
 SUBDIVISION IMPROVEMENTS

SHEET TITLE
 WATER DETAILS
 (SHEET 2 OF 4)
 SHEET NO.

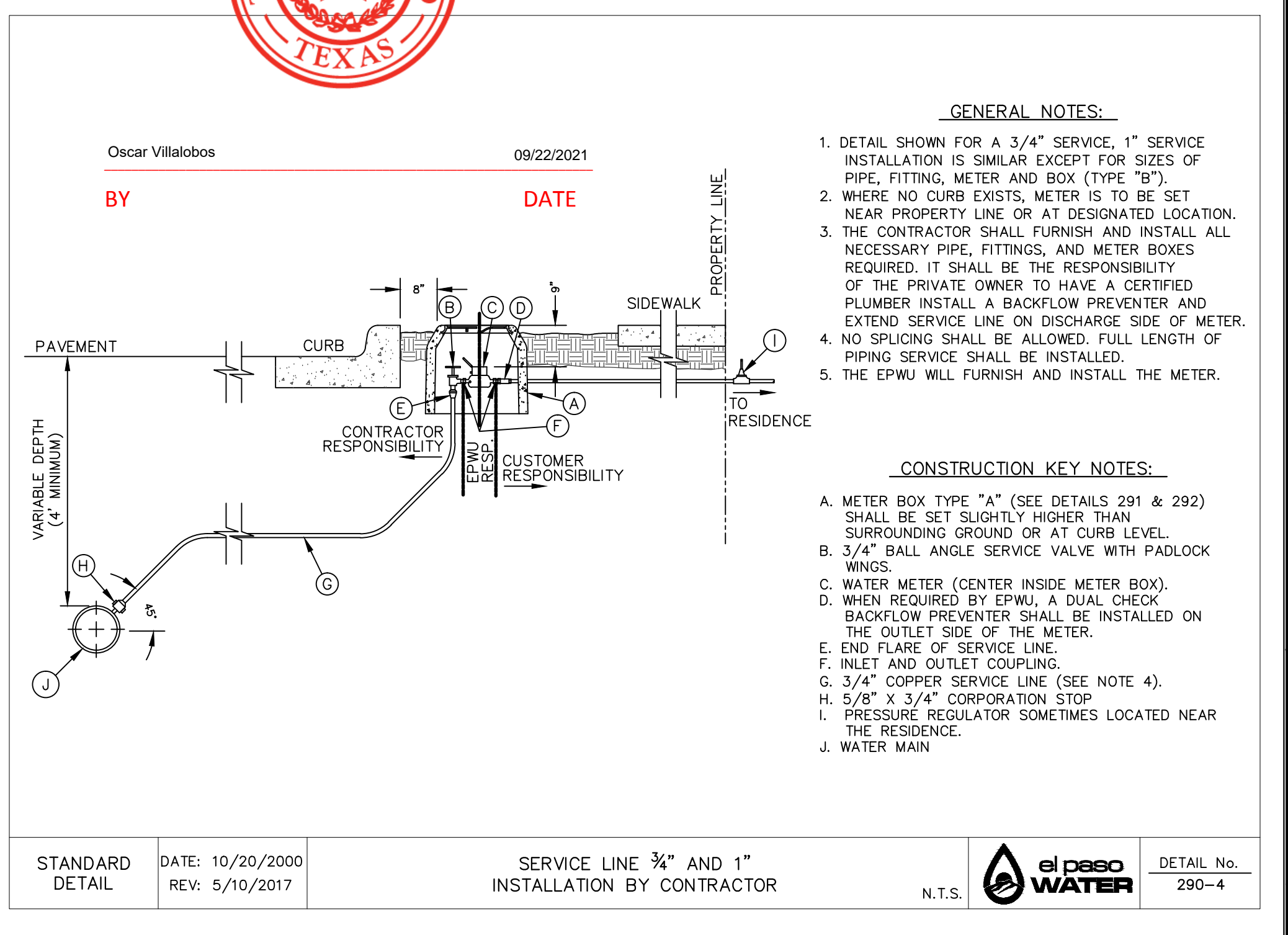
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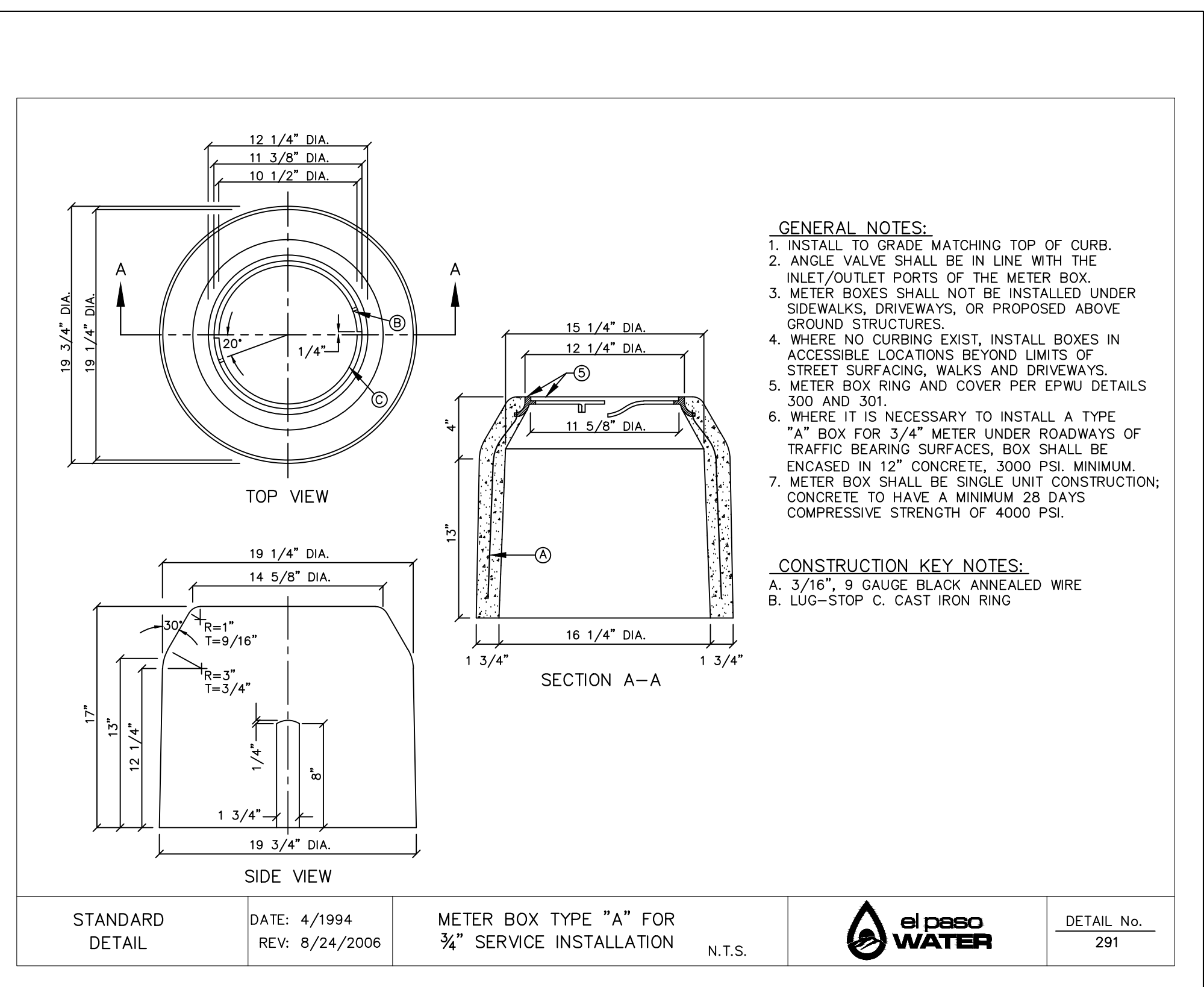
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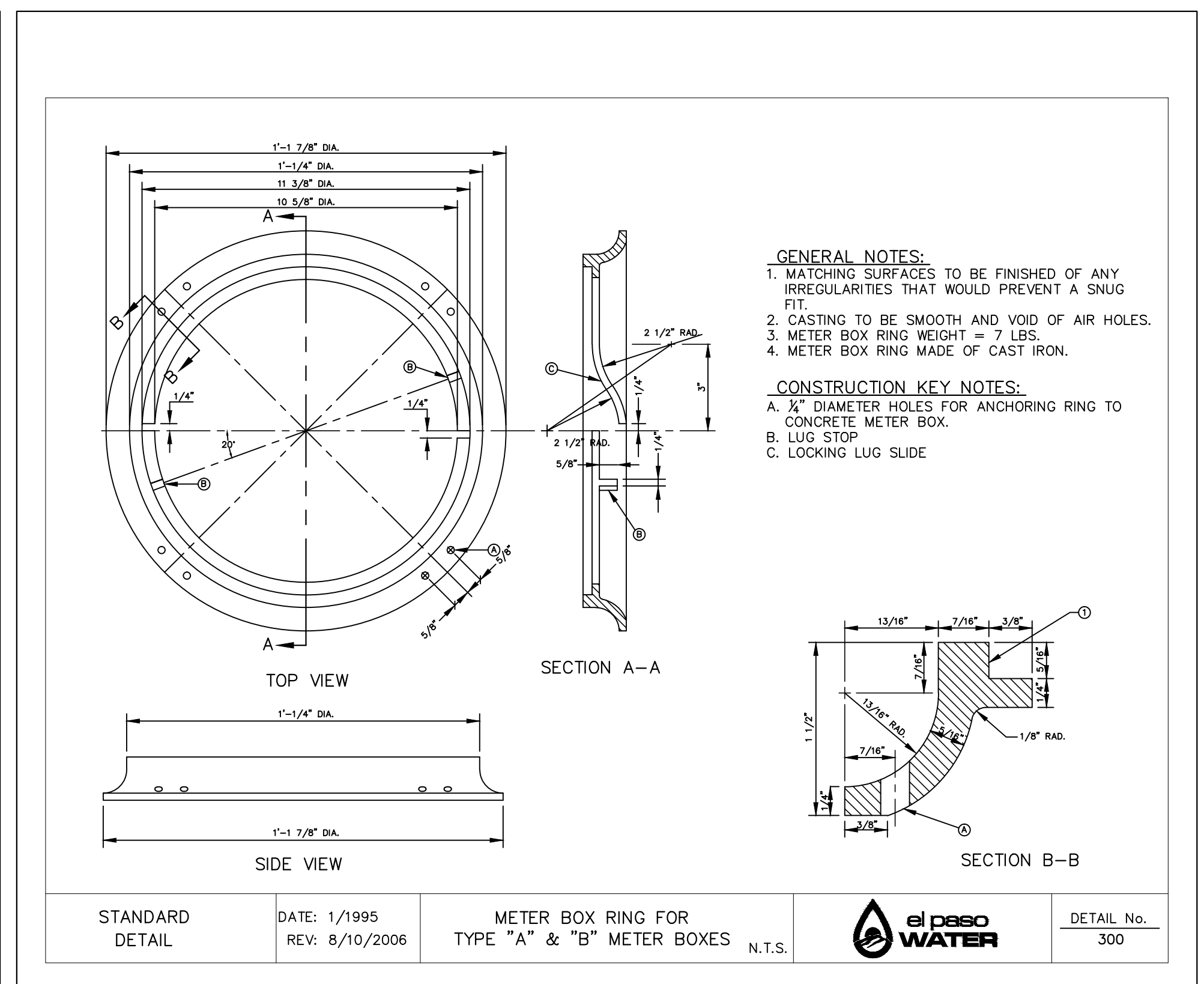
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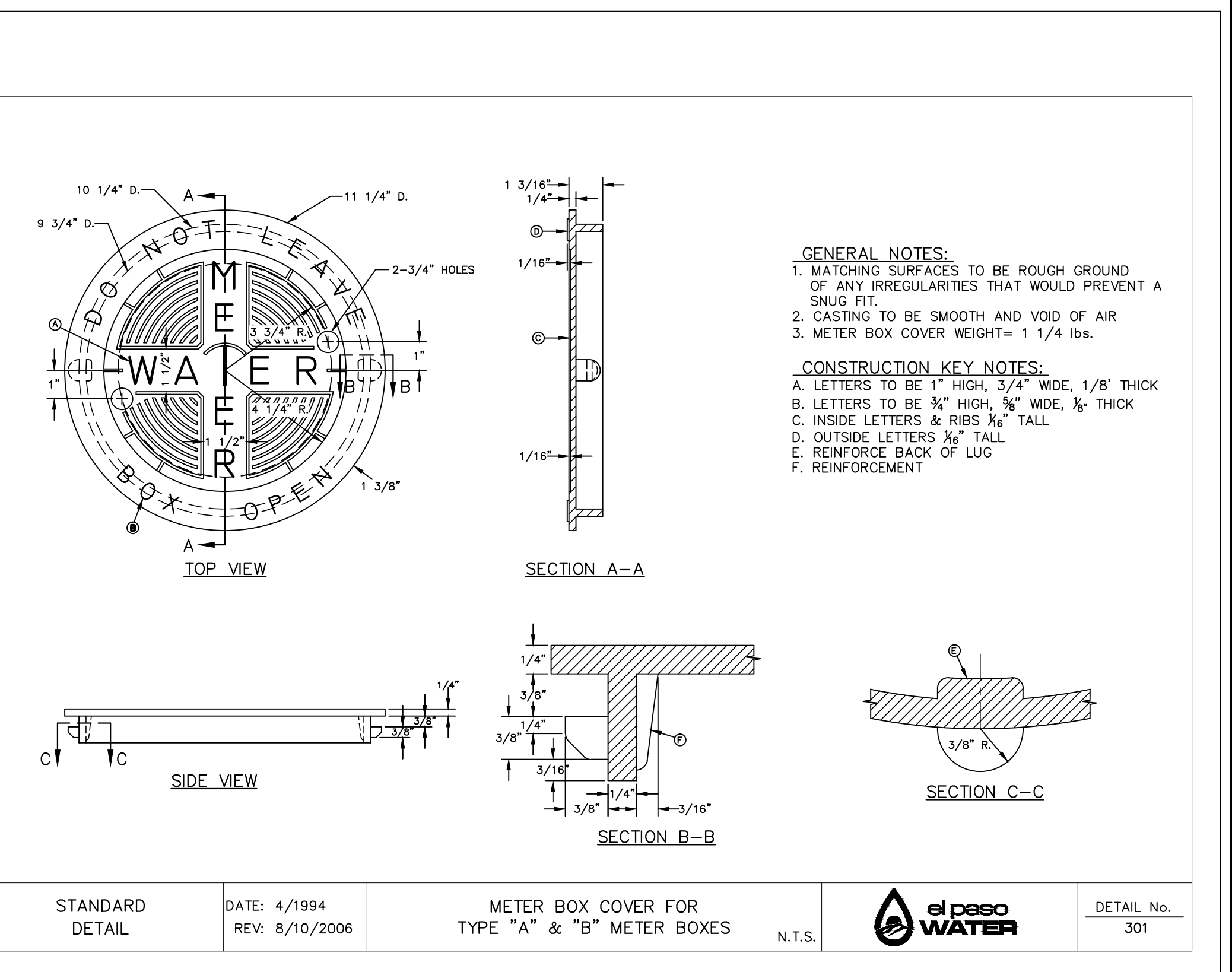
3 SERVICE LINE 3/4" AND 1" INSTALLATION
SCALE: NTS



4 METER BOX TYPE "A" FOR 3/4" SERVICE INSTALLATION
SCALE: NTS



5 METER BOX RING FOR TYPE "A" & "B" METER BOXES
SCALE: NTS



6 METER BOX COVER FOR TYPE "A" & "B" METER BOXES
SCALE: NTS

REFERENCES - BENCHMARKS

CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD., S08°43'31" A DISTANCE OF 487.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.

ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)

DATE: _____ REVISIONS: _____ BY: _____

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ENGINEER'S SEAL

SCALE: AS SHOWN

Horizontal: N/A

Vertical: N/A

Contour Interval: N/A

DATE: SEPTEMBER 2021

DESIGN BY: G.J.M.

DRAWN BY: E.Z.

CHKD. BY: J.L.A.

APPVD. BY: J.L.A.

JOB No.: 2000-228

9/13/21

PROJECT TITLE

TRES SUEÑOS UNIT TWENTY TWO REPLAT "A" SUBDIVISION IMPROVEMENTS

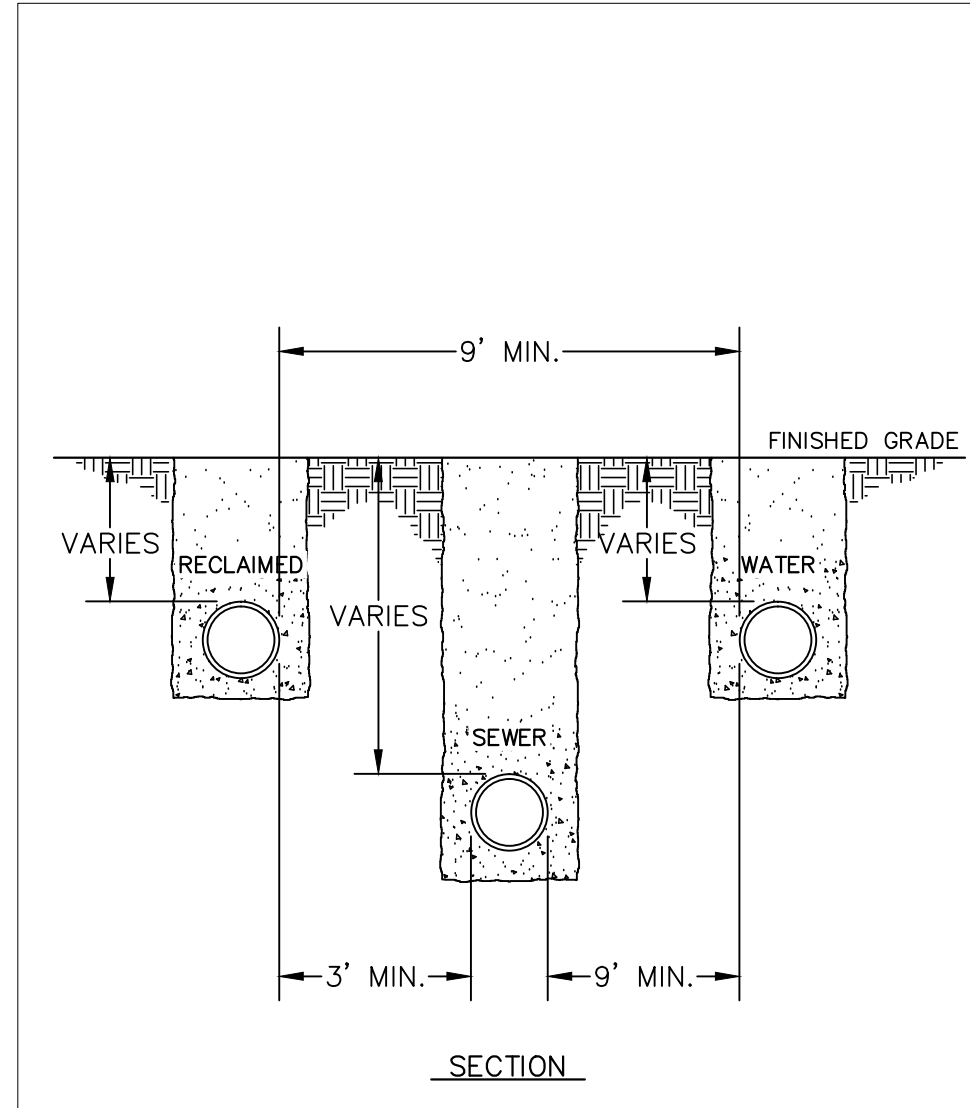
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WATER DETAILS

(SHEET 3 OF 4)

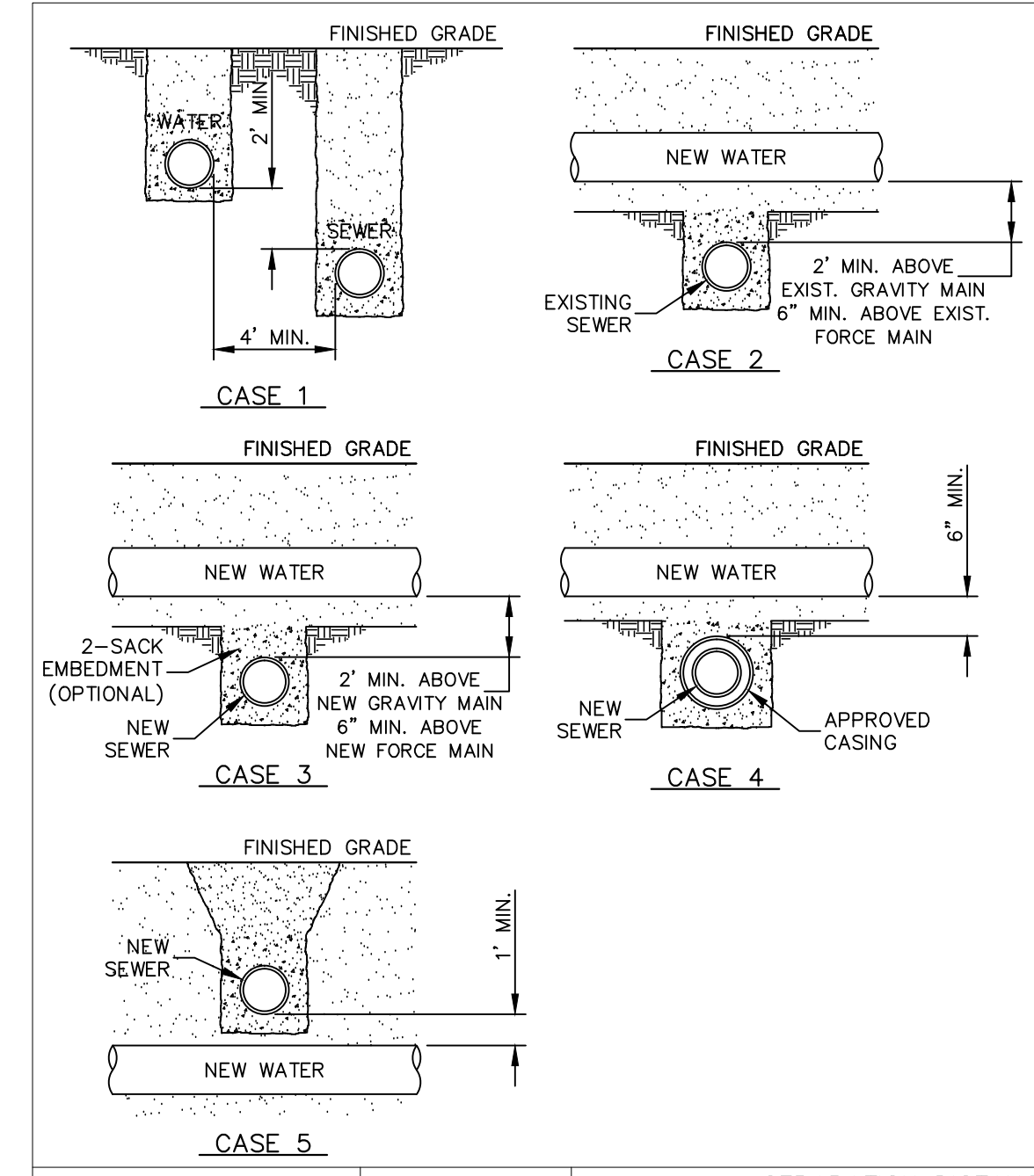
SHEET NO.

C12.4



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.

STANDARD DETAIL	DATE: 8/3/2006 REV: 3/28/2007	POTABLE WATER, SANITARY SEWER AND RECLAIMED WATER	N.T.S.		DETAIL No. 160
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GENERAL NOTES:
 1. NEW OR EXISTING POTABLE WATER AND SANITARY SEWER MAINS.
 2. SEPARATION DISTANCES SHALL FOLLOW TEXAS COMMISSION ON ENVIRONMENTAL QUALITY STANDARD REQUIREMENTS.

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 §290.44(a)(4)(v)) AND §290.44(a)(v)(ii).
 • LOCATION: WATER ABOVE SEWER OR FORCE MAIN.
 • SEWER MATERIALS: EXISTING GRAVITY MAIN (PVC SDR35 OR CLAY) OR FORCE MAIN TO REMAIN IF NOT LEAKING-IF LEAKING, MUST BE REPLACED WITH PVC (150 PSI) OR DI. NEW GRAVITY MAIN OR FORCE MAIN REQUIRES PVC (150 PSI) OR DI.
 • SEPARATE TRENCHES SHALL BE USED.

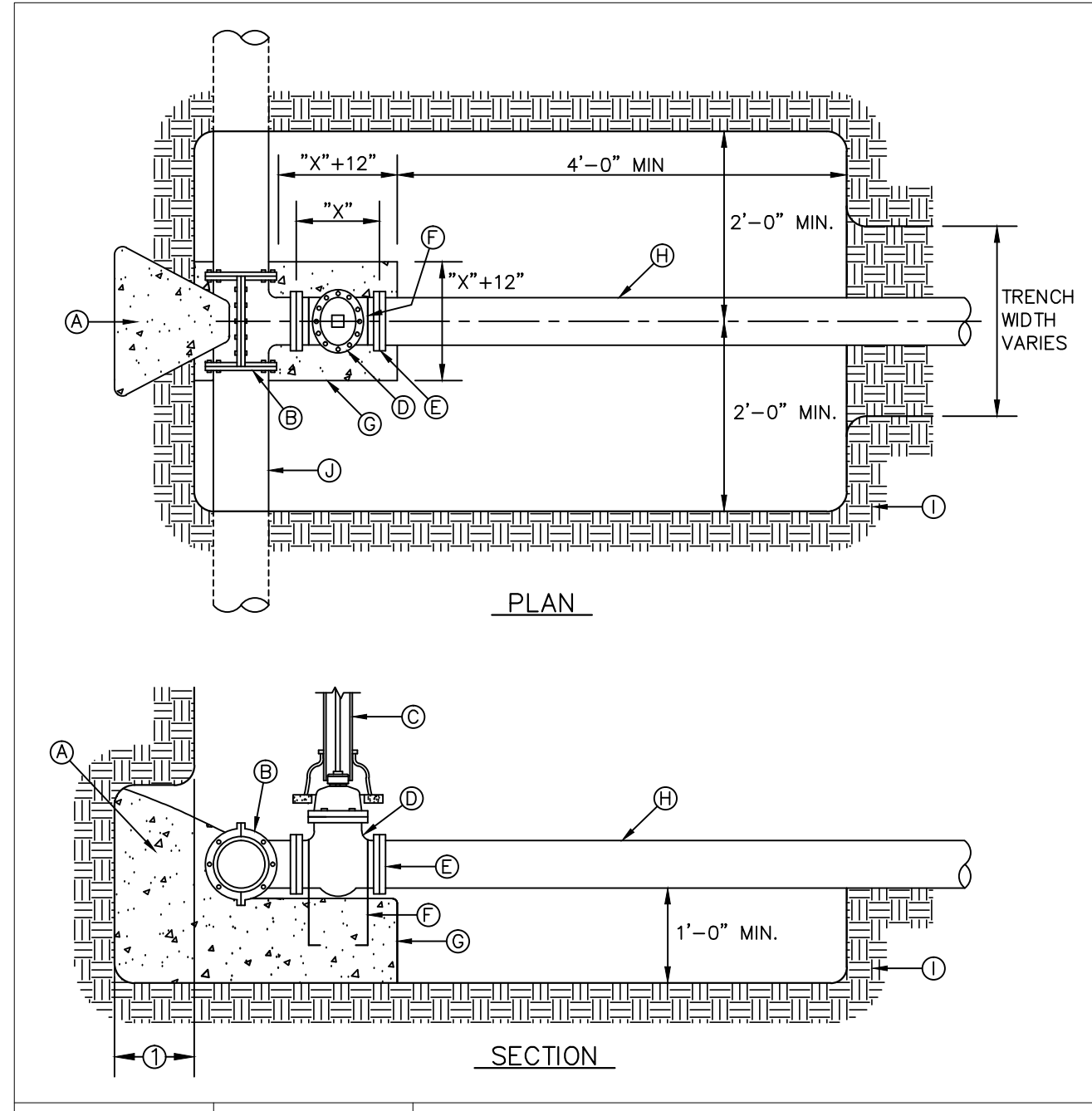
CASE 2. NEW POTABLE WATER MAIN CROSSING EXISTING GRAVITY SANITARY SEWER MAIN OR EXISTING FORCE MAIN (PER TCEQ §290.44(a)(4)(v)) AND §290.44(a)(v)(ii).
 • LOCATION: WATER ABOVE SEWER OR FORCE MAIN.
 • SEWER MATERIALS: EXISTING GRAVITY MAIN (PVC SDR35 OR CLAY) OR FORCE MAIN TO REMAIN IF NOT LEAKING-IF LEAKING, REPLACE ONE PIPE SEGMENT PER CASE 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 §290.44(a)(4)(v)(ii), §290.44(a)(4)(v)(iv) AND §290.44(a)(4)(v)(v)).
 • LOCATION: WATER ABOVE SEWER OR FORCE MAIN.
 • SEWER MATERIALS: NEW GRAVITY MAIN - PVC (150 PSI) or DI REQUIRED. CENTER UNDER WATER MAIN. NEW FORCE 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 LIEU OF PVC (150PSI) OR DI, INSTALL ONE PIPE SEGMENT OF SDR35 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 §290.44(a)(4)(v)(ii)(iii)).
 • LOCATION: WATER ABOVE SEWER OR FORCE MAIN.
 • SEWER MATERIALS: NEW GRAVITY MAIN - SDR35 ACCEPTABLE. NEW FORCE MAIN - PVC (150PSI) OR DI REQUIRED. IN ADDITION, SEWER MAIN OR FORCE MAIN MUST BE ENCASED IN DI OR STEEL, TWO NOMINAL SIZES LARGER THAN MAIN AND AT LEAST 18 FEET LONG.
 • CENTER CASING PIPE ON WATER MAIN.

CASE 5. NEW GRAVITY SANITARY SEWER MAIN OR NEW FORCE MAIN CROSSING NEW POTABLE WATER MAIN (PER TCEQ §290.44(a)(4)(v)(ii)(iii)).
 • 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 MUST BE DI OR STEEL OR ENCASED IN DI OR STEEL, TWO NOMINAL SIZES LARGER THAN MAIN AND AT LEAST 18 FEET LONG.
 • CENTER ONE SEGMENT OF SEWER PIPE ON WATER MAIN.

STANDARD DETAIL	DATE: 8/3/2006 REV: 8/21/2007	SEPARATION DISTANCE SANITARY SEWER AND POTABLE WATER (SPECIAL CONDITIONS)	N.T.S.		DETAIL No. 161
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GENERAL NOTES:
 1. THRUST BLOCKING SHALL EXTEND TO UNDISTURBED EARTH.
 2. TAPPING SLEEVE SHALL BE 18" MINIMUM FROM ANY BELL, COUPLING, VALVE OR FITTING LOCATED ALONG EXISTING WATER LINE TO BE TAPPED.
 3. REPLACE EXCAVATED MATERIAL WITH CEMENT STABILIZED BACKFILL PRIOR TO PAVING.
 4. JOINTS AND BOLTS SHALL BE CLEAR OF CONCRETE.
 5. INSTALL PERMANENT THRUST BLOCKING UNDER VALVE BEFORE TAP IS MADE. JOINTS AND BOLTS TO BE CLEAR OF CONCRETE.

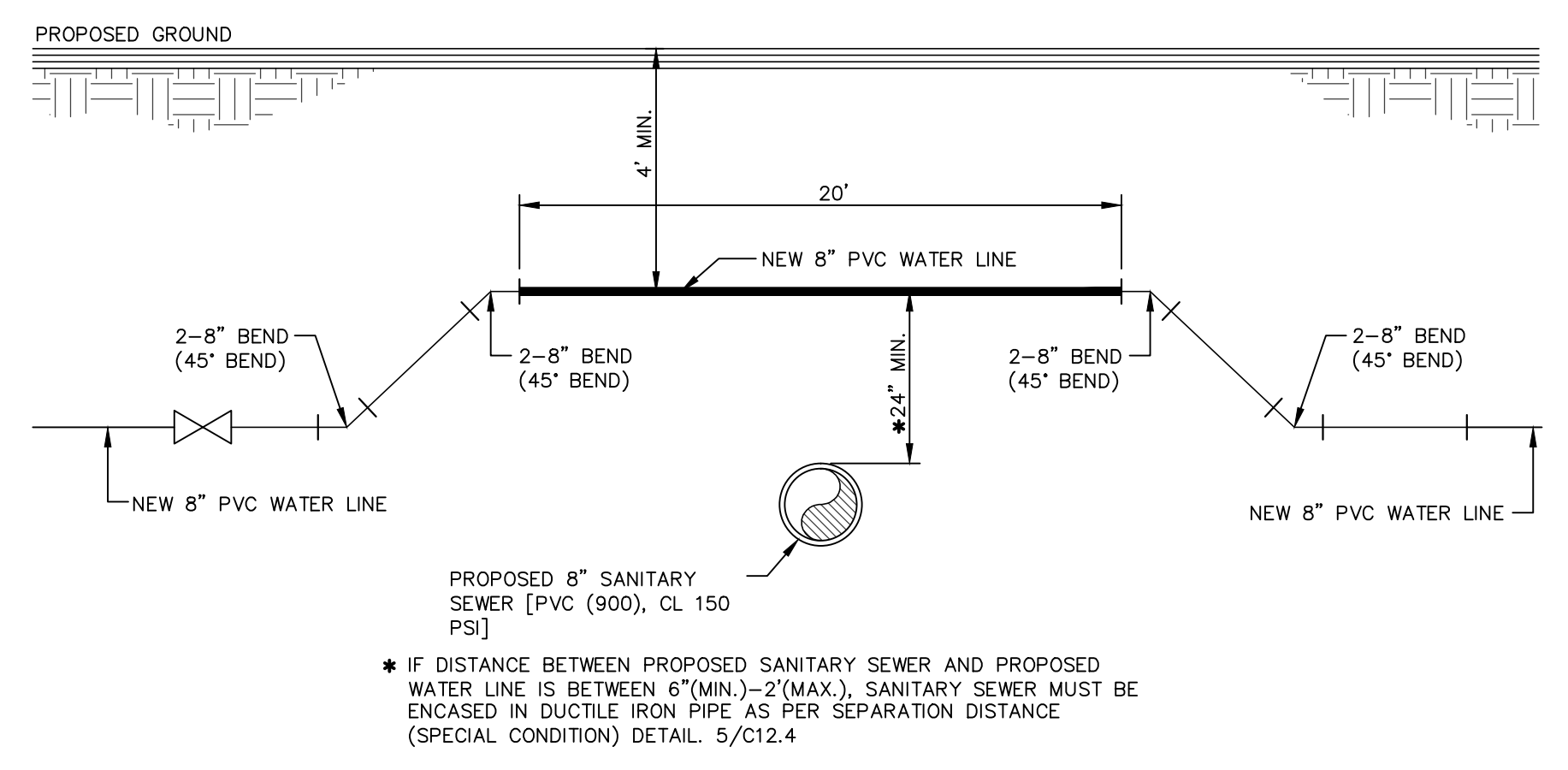
CONSTRUCTION KEY NOTES:
 A. CONCRETE THRUST BLOCKING, PER DETAIL 270.
 B. TAPPING SLEEVE.
 C. RISER INSTALLATION, PER DETAIL 260.
 D. TAPPING VALVE.
 E. VALVE ENDS FOR TYPE OF PIPE INSTALLED.
 F. 2-#5 REBAR HAIRPINS, PAINT UNEMBEDDED PORTION OF BARS WITH 2-COATS OF COAL TAR EPOXY, THEN COVER WITH 2" MINIMUM OF CEMENT MORTAR.
 G. CONCRETE VALVE SUPPORT, PER DETAIL 271.
 H. NEW WATER LINE TO BE INSTALLED.
 I. UNDISTURBED EARTH.
 J. EXISTING WATER MAIN TO BE TAPPED.

STANDARD DETAIL	DATE: 9/1994 REV: 8/9/2006	TAPPING SLEEVE AND VALVE INSTALLATION	N.T.S.		DETAIL No. 266
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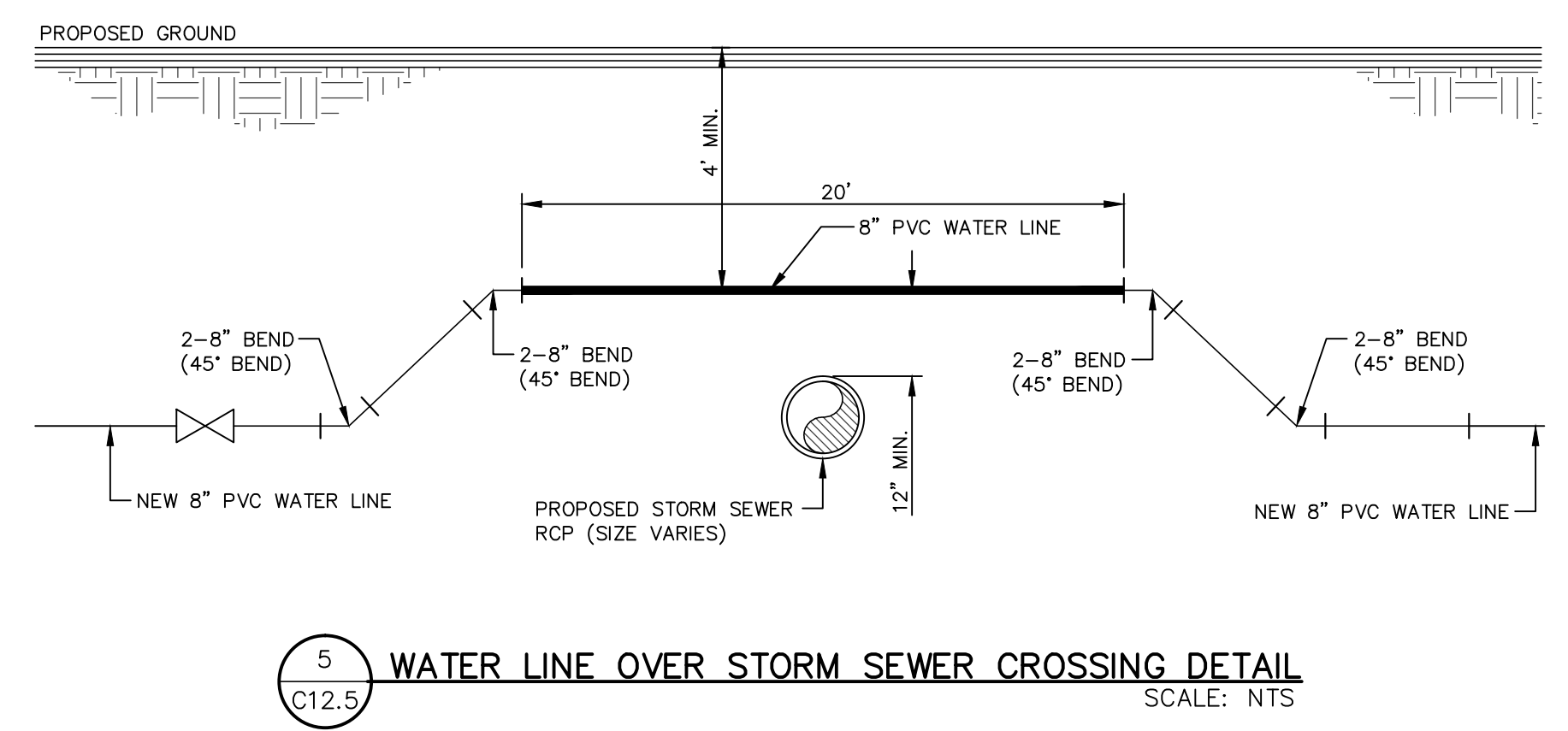
1 C12.5 SEPARATION DISTANCE POTABLE WATER, SANITARY SEWER AND RECLAIMED WATER
SCALE: NTS

2 C12.5 SEPARATION DISTANCE SANITARY SEWER AND POTABLE WATER (SPECIAL CONDITIONS)
SCALE: NTS

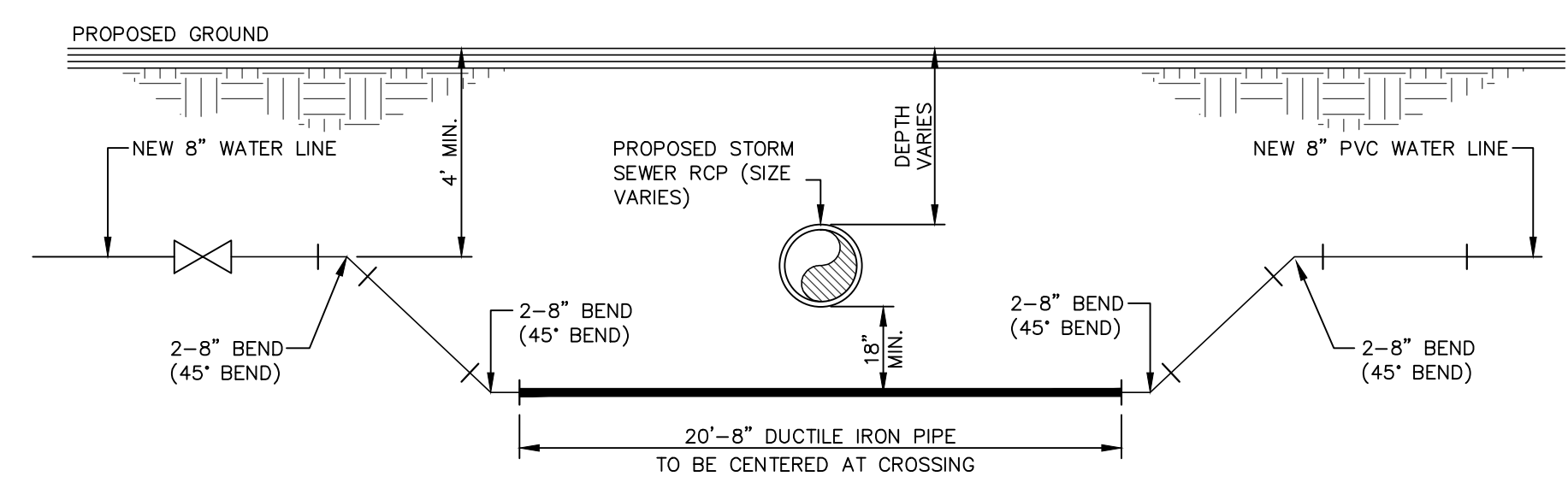
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SCALE: NTS



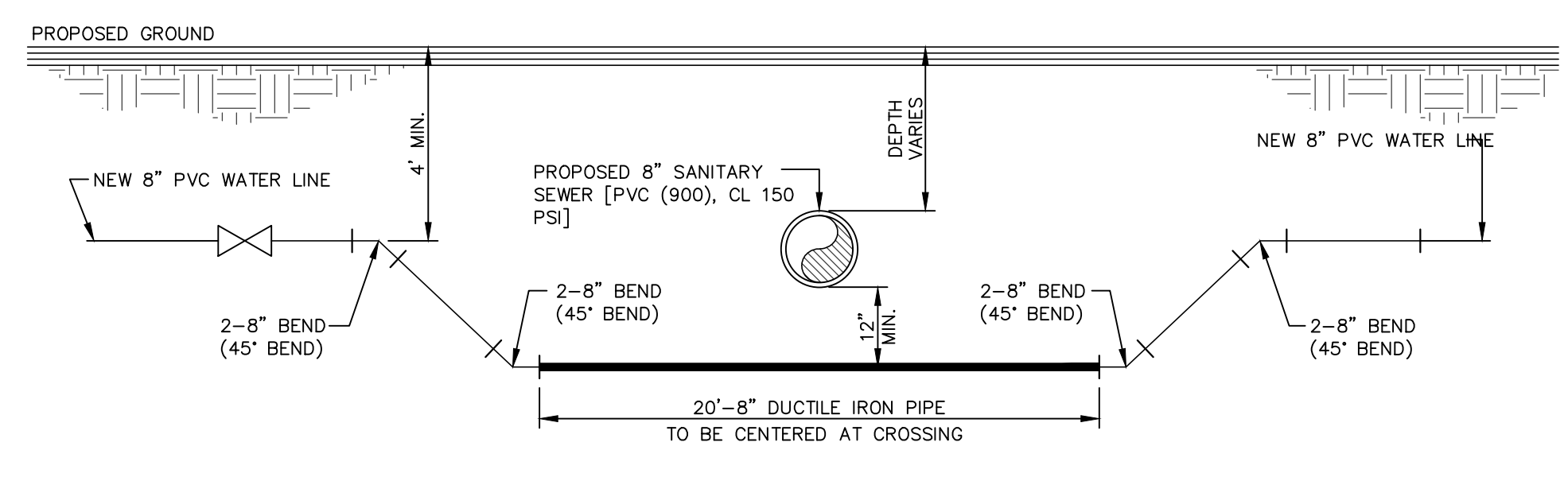
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SCALE: NTS



5 C12.5 WATER LINE OVER STORM SEWER CROSSING DETAIL
SCALE: NTS



6 C12.5 WATER LINE UNDER STORM SEWER CROSSING DETAIL
SCALE: NTS



7 C12.5 WATER LINE UNDER SANITARY SEWER CROSSING DETAIL
SCALE: NTS



Oscar Villalobos 09/22/2021
BY DATE

REFERENCES - BENCHMARKS
 CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD., S08°43'31" A DISTANCE OF 487.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
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 www.ceagroup.net

TEXAS REGISTERED ENGINEERING FIRM F-4564

ENGINEER'S SEAL

 JORGE L. AZCARATE
 68075
 STATE OF TEXAS

SCALE: AS SHOWN
 Horizontal: N/A
 Vertical: N/A
 Contour Interval: N/A
 DATE: SEPTEMBER 2021
 DESIGN BY: G.J.M.
 DRAWN BY: E.Z.
 CHKD. BY: F.Z.
 APPVD. BY: J.L.A.
 JOB No. : 2000-228

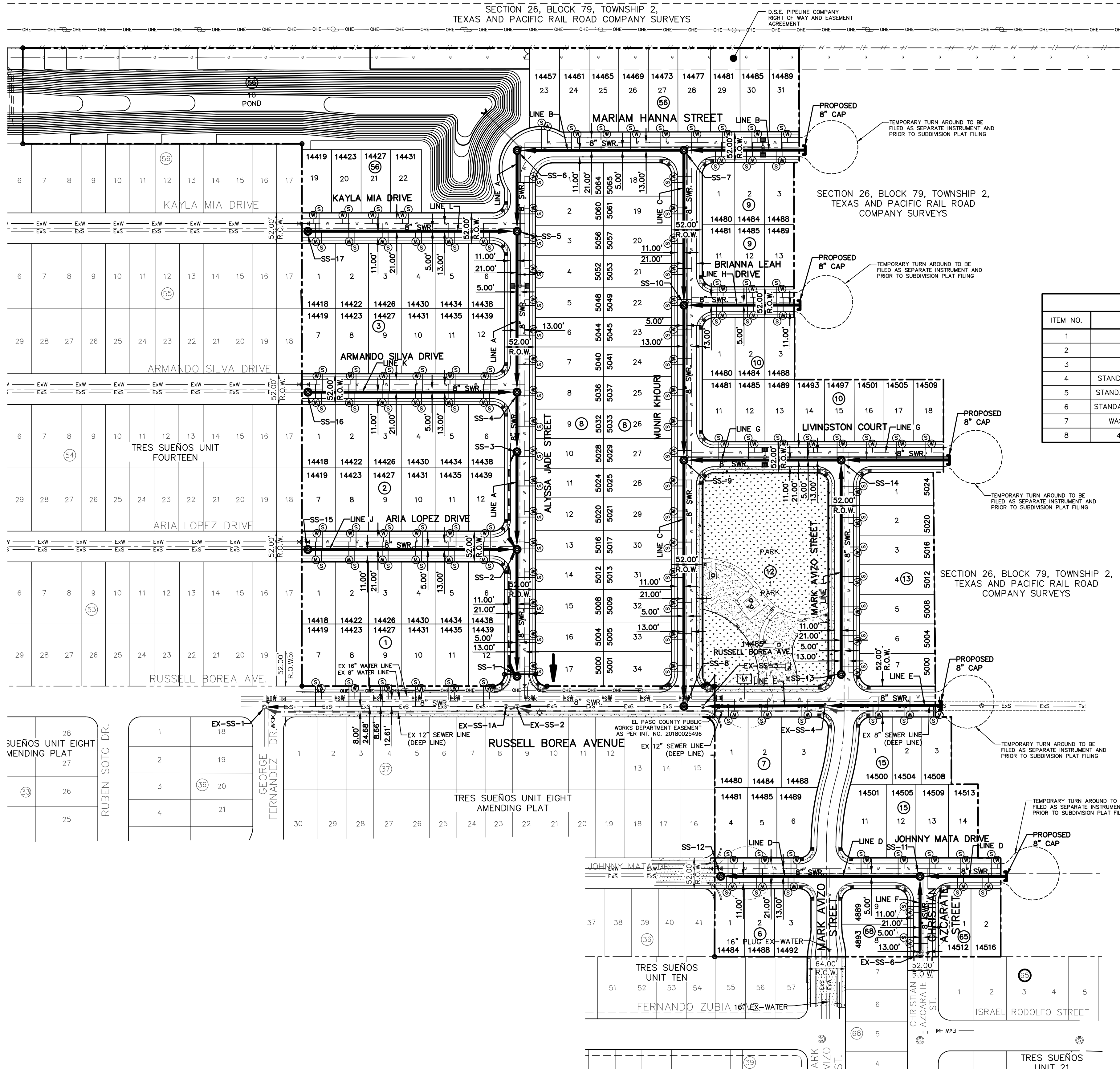
9/13/21

PROJECT TITLE
**TRES SUEÑOS UNIT TWENTY TWO
 REPLAT "A"
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE
WATER DETAILS

(SHEET 4 OF 4)
 SHEET NO.

C12.5



ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1	8" PVC SDR35 GRAVITY LINE	5616	LINEAR FEET
2	8" PVC C-900, CL150	166	LINEAR FEET
3	16" STEEL CASING	80	LINEAR FEET
4	STANDARD WASTEWATER MANHOLE (0'-8" DEEP)	12	EACH
5	STANDARD WASTEWATER MANHOLE (8'-12" DEEP)	1	EACH
6	STANDARD WASTEWATER MANHOLE (12'-16" DEEP)	1	EACH
7	WASTEWATER DROP MANHOLE CONNECTION	4	EACH
8	4" WASTEWATER SERVICE CONNECTION	127	EACH



Oscar Villalobos 09/22/2021
BY DATE

CONTRACTOR SHALL VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.

SANITARY SEWER INDEX MAP
SCALE: 1" = 100'

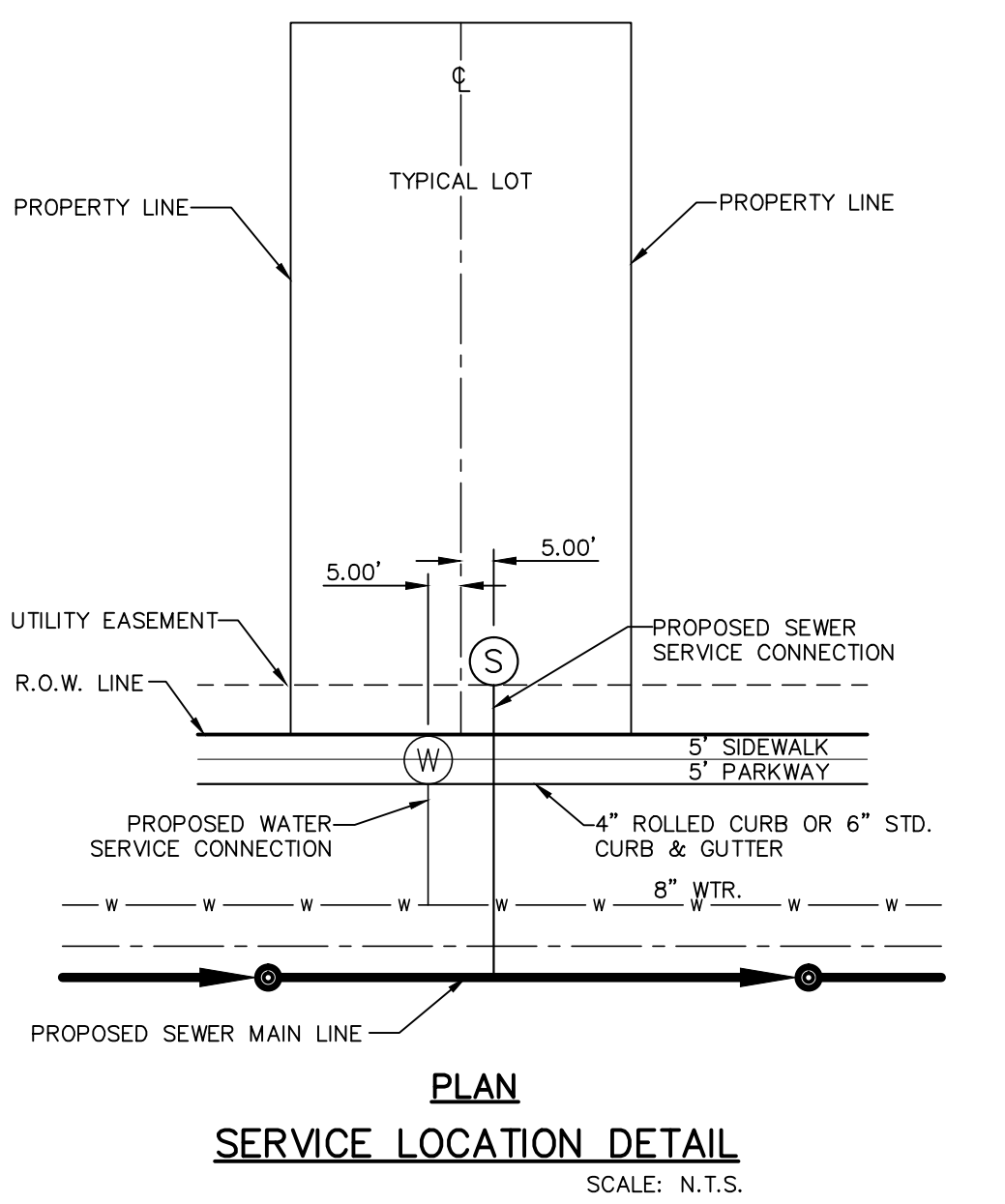
INDEX

SHEET NO.	DESCRIPTION
C13.1	TRES SUEÑOS UNIT TWENTY TWO LEGEND INDEX / GENERAL INFORMATION
C13.2	LINE A, F & I
C13.3	LINE B & H
C13.4	LINE C, K & L
C13.5	LINE D & G
C13.6	LINE E & J
C13.7	SANITARY SEWER DETAILS
C13.8	SANITARY SEWER DETAILS
C13.9	SANITARY SEWER DETAILS

- ### NOTES:
- ALL LOTS SHALL BE PROVIDED WITH ONE SERVICE CONNECTION TO BE INSTALLED AT THE LOCATION AS SHOWN ON THE SERVICE LOCATION DETAIL.
 - ALL SANITARY SEWER PIPES SHALL BE PVC, SDR 35, (D 3034), UNLESS OTHERWISE SHOWN, AS REQUIRED BY THE EPWU/PSB RULES AND REGULATIONS AND DESIGN STANDARDS.
 - REFERENCE SANITARY SEWER DETAILS FOR SEWER CROSSINGS AT STORM SEWER.

LEGEND

SYMBOL	DESCRIPTION
	PROPOSED STORM SEWER
	EXISTING WATER LINE
	EXISTING SEWER LINE
	SUBD. BOUNDARY LINE
	PROPERTY LINE
	CENTER LINE
	PROPOSED WATER LINE
	EXISTING DEEP (DOUBLE) SEWER LINE (REFER TO PLAN & PROFILE) 12" LOWER LINE / 8" UPPER LINE
	PROPOSED SEWER LINE (PLAN VIEW) SDR35
	PROPOSED DOUBLE SEWER LINE (PLAN VIEW) SDR35
	EXISTING SEWER LINE (PLAN VIEW) SDR35
	PROPOSED SEWER LINE ON ANOTHER SHEET (PLAN VIEW)
	PROPOSED SEWER LINE (PROFILE VIEW) P.V.C. @ 0.40% 341 GPM
	PROPOSED SEWER MANHOLE (PROFILE VIEW)
	PROPOSED SERVICE CONNECTION (PLAN VIEW)
	EXISTING MANHOLE (PLAN VIEW)
	PROPOSED MANHOLE (PROFILE VIEW)
	EXISTING MANHOLE (PROFILE VIEW)



- ### GENERAL NOTES
- UNLESS OTHERWISE SHOWN ON THE DRAWINGS, THE PROPOSED SEWER MAINS AND SEWER MANHOLES SHALL BE INSTALLED NO LESS THAN TEN (10') FEET AWAY FROM EXISTING WATER LINE. SEPARATIONS DISTANCES SHALL FOLLOW TCEQ STANDARD REQUIREMENTS (§290.44)
 - THE INTENT OF THE OWNER IS TO HAVE THE SANITARY SEWER PIPELINES INSTALLED TO SUCH A DEPTH THAT THEY WILL HAVE AT LEAST FORTY-EIGHT (48") INCHES OF COVER BELOW PROPOSED GROUND AT ALL LOCATIONS. THE PIPELINES SHALL HAVE NO DIPS, SAGS OR HUMPS OR OTHER IRREGULARITIES IN VERTICAL ALIGNMENT. CONSIDERING UTILITIES AND OTHER CONDITIONS, VARIANCE FROM GRADE PROFILE IS NOT RECOMMENDED IF OTHER EXISTING UTILITIES OR OBSTRUCTIONS ARE ENCOUNTERED DURING THE WORK. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO INSTALLING THE SEWER PIPELINE SO THAT AN ACCEPTABLE PROFILE CAN BE ESTABLISHED PRIOR TO INSTALLATION OF THE PIPELINE.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE ALL UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN IN THE PLANS, AND COORDINATE HIS WORK WITH ALL UTILITY COMPANIES, EL PASO WATER UTILITIES AND CITY OF EL PASO PRIOR TO CONSTRUCTION. ALL EXISTING UTILITY DEPTHS ARE UNKNOWN. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR ACQUIRING FIELD DEPTHS OF ALL UTILITIES WITH THE PROJECT AREAS.
 - TRENCH SAFETY REQUIREMENTS SHALL COMPLY WITH CURRENT OSHA REGULATIONS.
 - AS-BUILT STATIONING, OFFSET FROM R.O.W. AND INVERT ELEVATIONS SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR ON A CLEAN SET OF PLANS FOR EACH MANHOLE, SERVICE CONNECTION AND/OR STUB-OUT, WITH RESPECT TO THE APPROPRIATE PROJECT CONTROL POINT.
 - THE EL PASO WATER UTILITIES AND CITY OF EL PASO MUST BE NOTIFIED FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING ANY WORK IN AREAS WITHIN THEIR JURISDICTION. A COPY OF ALL FIELD SOIL DENSITY TESTS WITHIN THEIR RESPECTIVE R.O.W. SHALL BE FORWARDED TO THE DEVELOPER'S ENGINEER AND THE DEVELOPER BY THE CONTRACTOR.
 - EXISTING STREETS, DRIVEWAYS AND ALL OTHER MISCELLANEOUS STRUCTURES DAMAGE OR REMOVED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL OR BETTER THAN ORIGINAL CONDITION.
 - CONSTRUCTION OF THE PUBLIC WATER AND SEWER SYSTEM INCLUDING MATERIALS AND TESTING SHALL CONFIRM TO EPWU-PSB STANDARD SPECIFICATIONS FOR THE INSTALLATION OF WATER MAINS, SEWER MAINS AND RELATED APPURTENANCES.

- ### GENERAL UTILITIES:
- TEXAS EXCAVATION SAFETY SERVICE
11884 GREENVILLE AVENUE.
DALLAS, TX. 75243
(800) 344-8377
- ### ENGINEER:
- CEA GROUP
UPTOWN CENTRE
813 NORTH KANSAS STREET STE. 300
EL PASO, TX. 79902
(915) 544-5232
MR. JORGE L. AZCARATE, P.E.
- ### FIBER OPTICS:
- U.S. SPRINT
151 N. BOONE ST.
EL PASO, TX. 79905
(915) 534-7910
- ### FIBER OPTICS:
- MCI TELECOMMUNICATIONS CORP.
4045 DONIPHAN PARK CIRCLE
EL PASO, TX. 79922
(915) 542-2770 EXT. 201
- ### WATER & SEWER:
- EL PASO WATER UTILITIES
1154 HAWKINS BOULEVARD
EL PASO, TX. 79961
(915) 594-5530
- ### ELECTRIC:
- EL PASO ELECTRIC CO.
501 W. SAN ANTONIO ST.
EL PASO, TX. 79902
(915) 543-2076
MR. FRANK VIGEL (DISTRIBUTION)
- ### EL PASO STREETS
- CITY OF EL PASO
DEPARTMENT OF TRANSPORTATION
7969 SAN PAULO DRIVE
EL PASO, TX. 79907
(915) 621-6750
- ### CABLE TELEVISION:
- TIME WARNER COMMUNICATIONS
7010 AIRPORT ROAD
EL PASO, TX. 79905
(915) 772-1123
- ### TELEPHONE:
- SBC
11200 PELICANO
EL PASO, TX. 79935
(915) 595-5151
- ### FIBER OPTICS:
- AT&T
P.O. BOX 1650
EL PASO, TX. 79949
(800) 852-3786
- ### RESIDENTIAL GAS LINES:
- TEXAS GAS SERVICE
4700 POLLARD ST.
EL PASO, TX. 79930
(915) 680-7218

WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD., S08R4331" A DISTANCE OF 487.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)

813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232
www.ceagroup.net
TEXAS REGISTERED ENGINEERING FIRM F-4564

ENGINEER'S SEAL
JORGE L. AZCARATE
9/13/21

SCALE: 1" = 100'
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A
DATE: SEPTEMBER 2021
DESIGN BY: G.J.M.
DRAWN BY: E.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No.: 2000-228

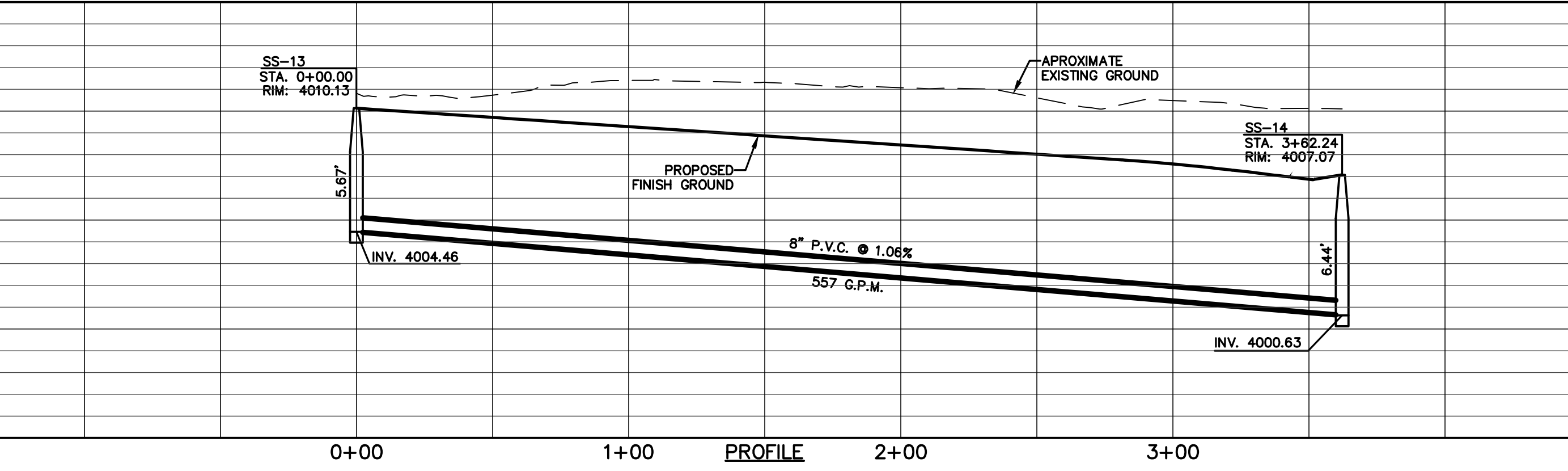
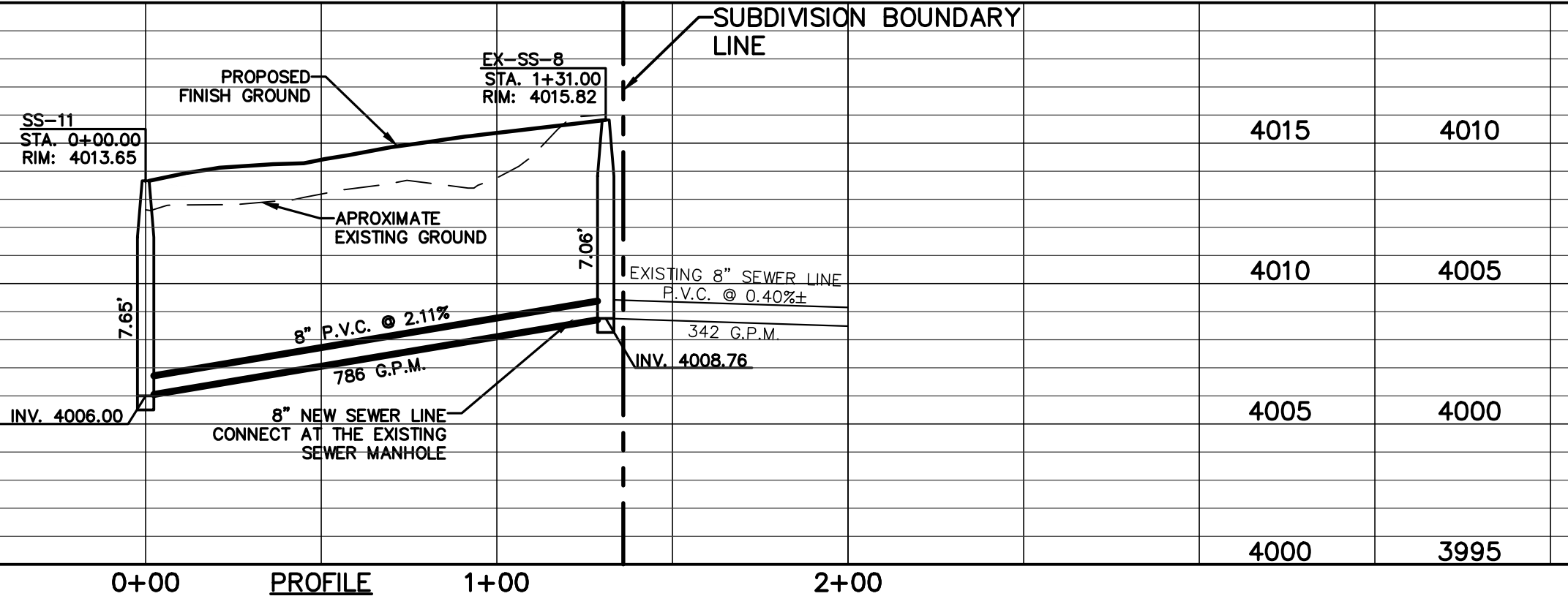
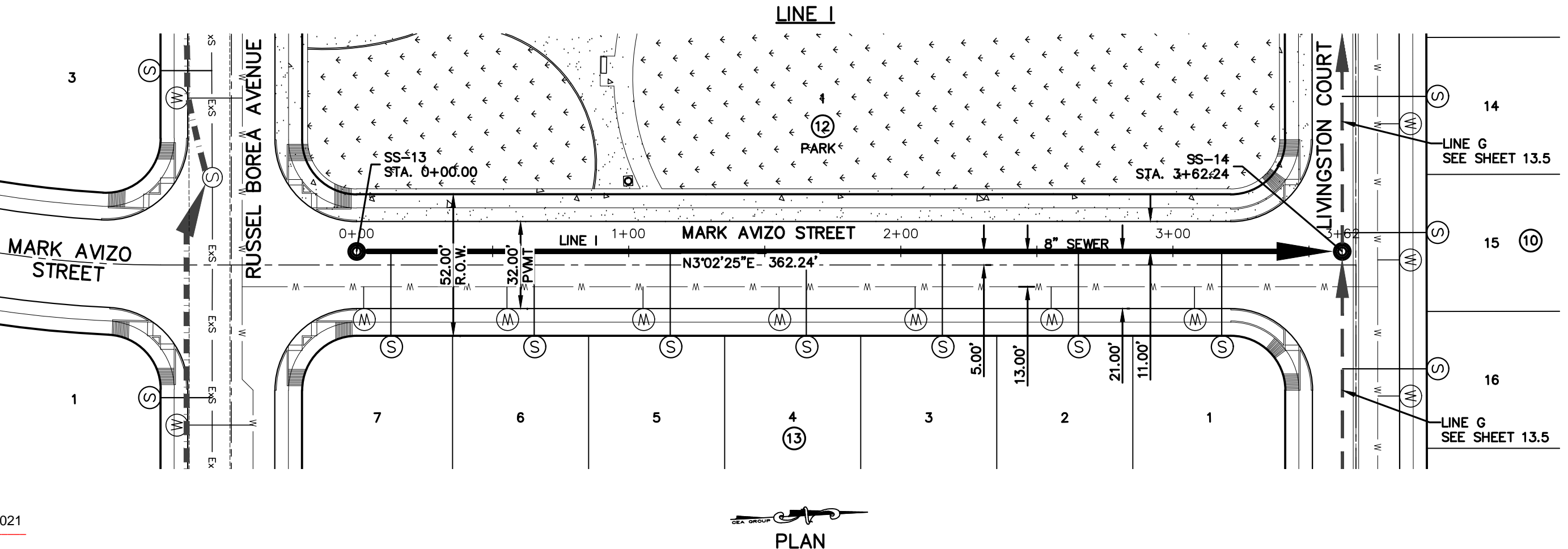
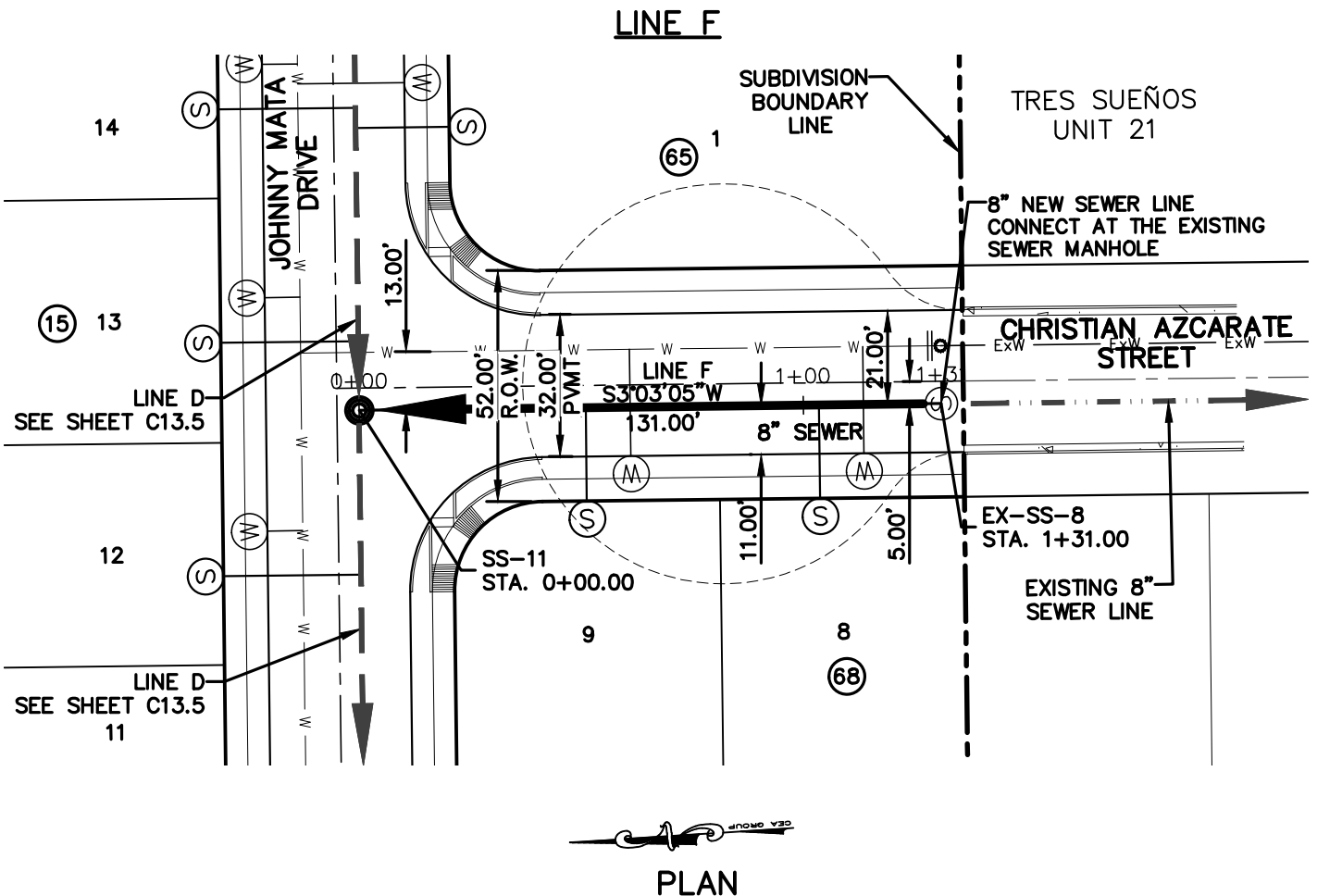
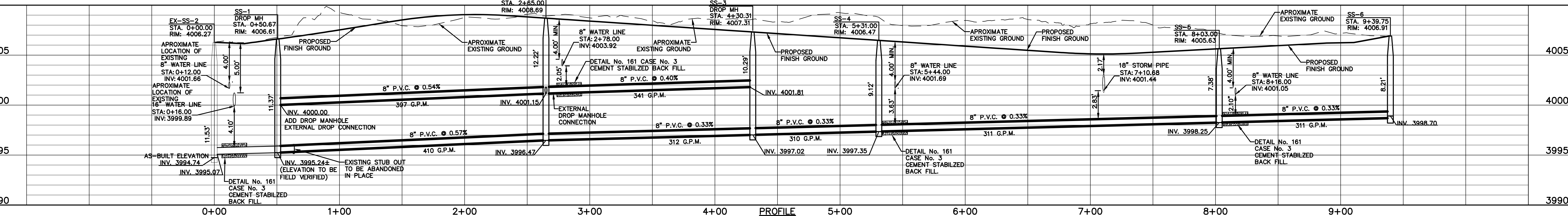
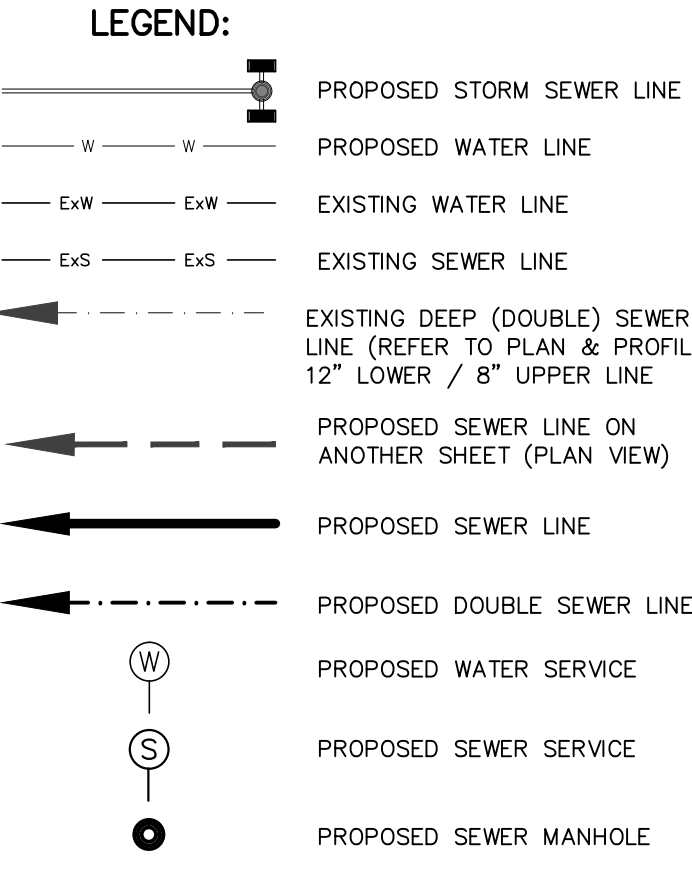
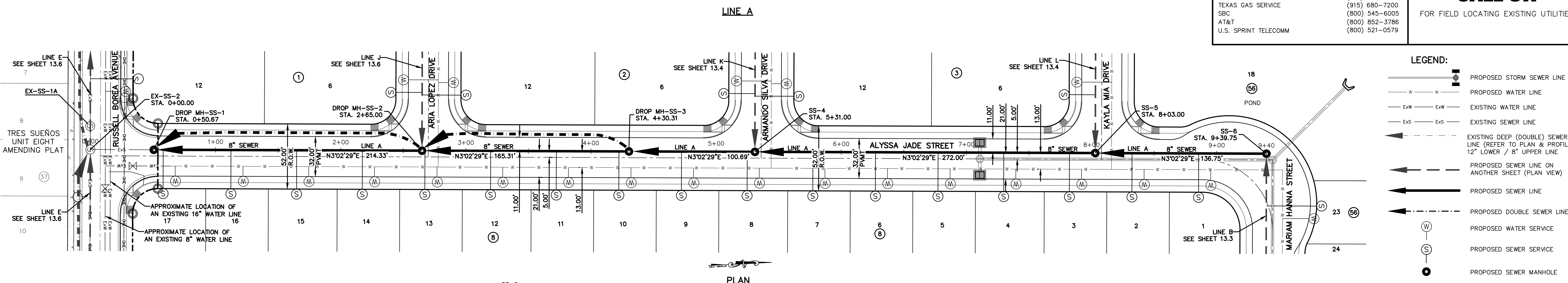
PROJECT TITLE
TRES SUEÑOS UNIT TWENTY TWO REPLAT "A" SUBDIVISION IMPROVEMENTS

SHEET TITLE
SANITARY SEWER INDEX

SHEET NO.
C13.1

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

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Oscar Villalobos
BY DATE 09/22/2021

REFERENCES - BENCHMARKS
CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD., S08°43'31" A DISTANCE OF 487.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)

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El Paso, TX 79902
915.544.5232
www.ceagroup.net

CEA
Group
TEXAS REGISTERED ENGINEERING FIRM F-4564

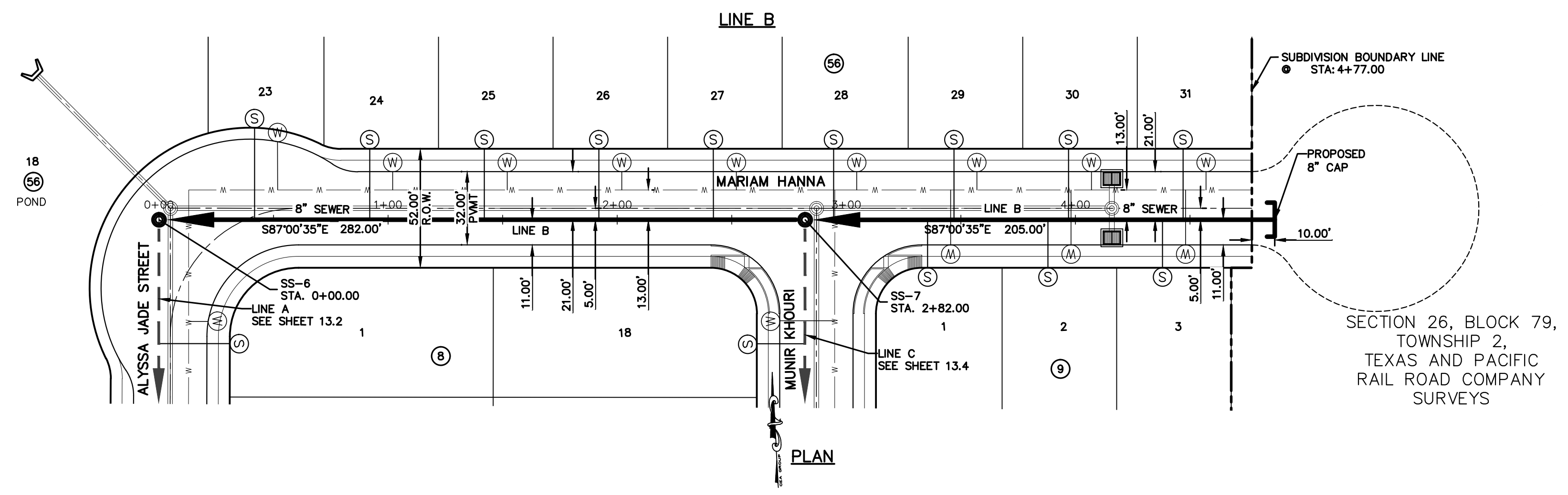
ENGINEER'S SEAL
JOSÉ L. AZCARATE
16075
9/13/21

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Vertical: 1"=5'
Contour Interval: N/A
DATE: SEPTEMBER 2021
DESIGN BY: G.J.M.
DRAWN BY: E.Z.
CHKD. BY: F.Z.
APPVD. BY: J.L.A.
JOB No.: 2000-228

PROJECT TITLE
**TRES SUEÑOS UNIT TWENTY TWO
REPLAT "A"
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
SANITARY SEWER
PLAN & PROFILE
LINE A, F & I

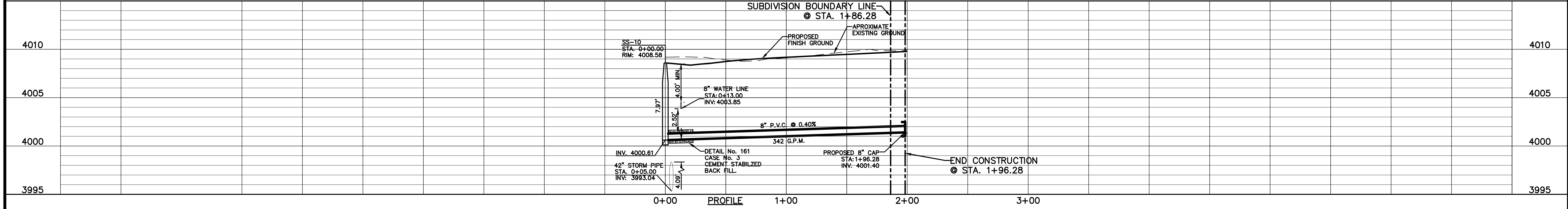
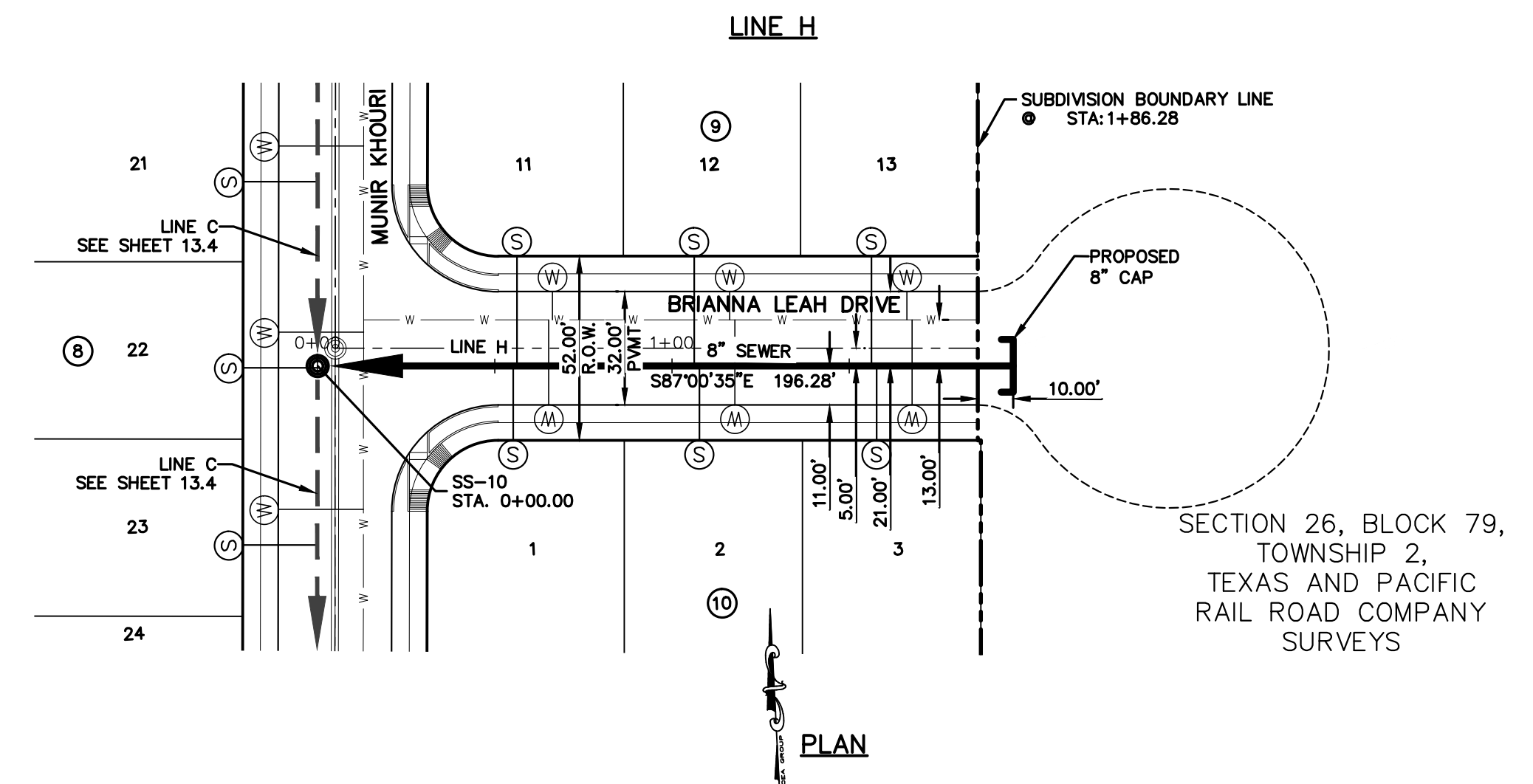
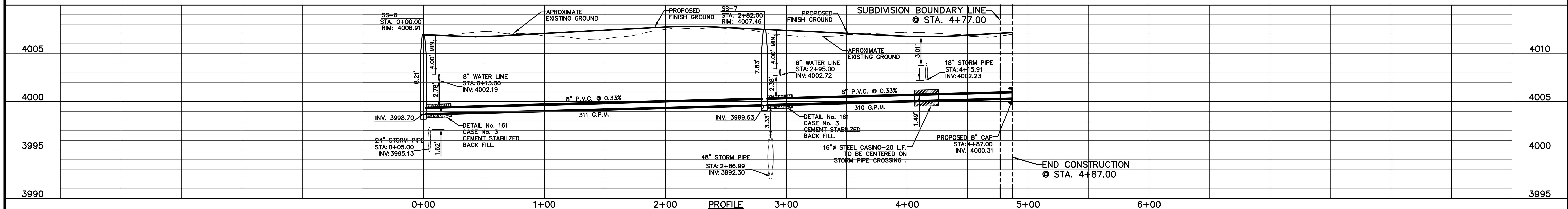
SHEET NO.
C13.2



UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

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ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)

DATE: _____ BY: _____
REVISIONS: _____

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El Paso, TX 79902
915.544.5232
www.ceagroup.net

CEA GROUP
TEXAS REGISTERED ENGINEERING FIRM F-4564

ENGINEER'S SEAL
JOSGE L. AZCARRATE
19805

SCALE:
Horizontal: 1"=40'
Vertical: 1"=5'
Contour Interval: N/A
DATE: SEPTEMBER 2021
DESIGN BY: G.J.M.
DRAWN BY: E.Z.
CHKD. BY: F.Z.
APPVD. BY: J.L.A.
JOB No.: 2000-228



Oscar Villalobos
BY
DATE 09/22/2021

PROJECT TITLE
TRES SUEÑOS UNIT TWENTY TWO
REPLAT "A"
SUBDIVISION IMPROVEMENTS

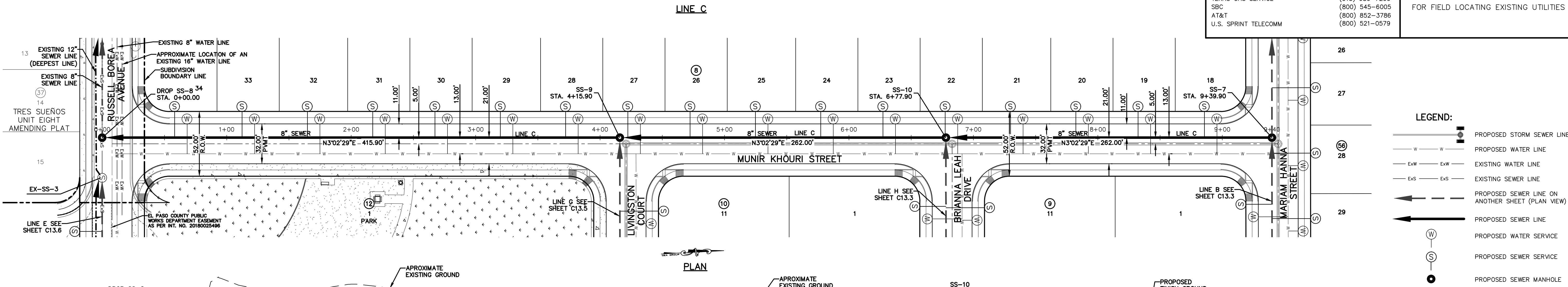
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SANITARY SEWER
PLAN & PROFILE
LINE B & H

SHEET NO.
C13.3

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

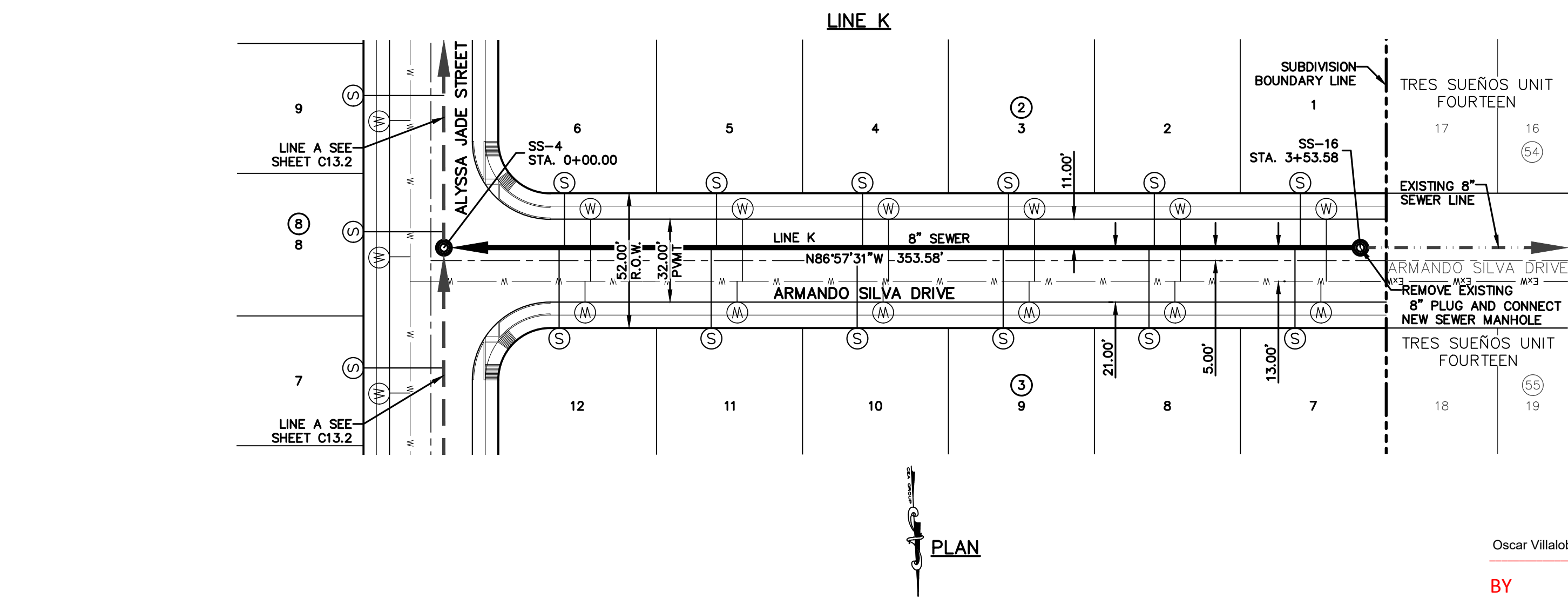
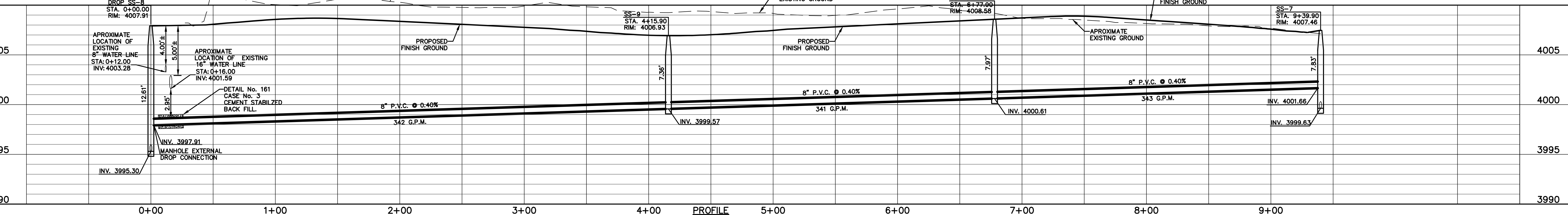
WARNING!
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FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

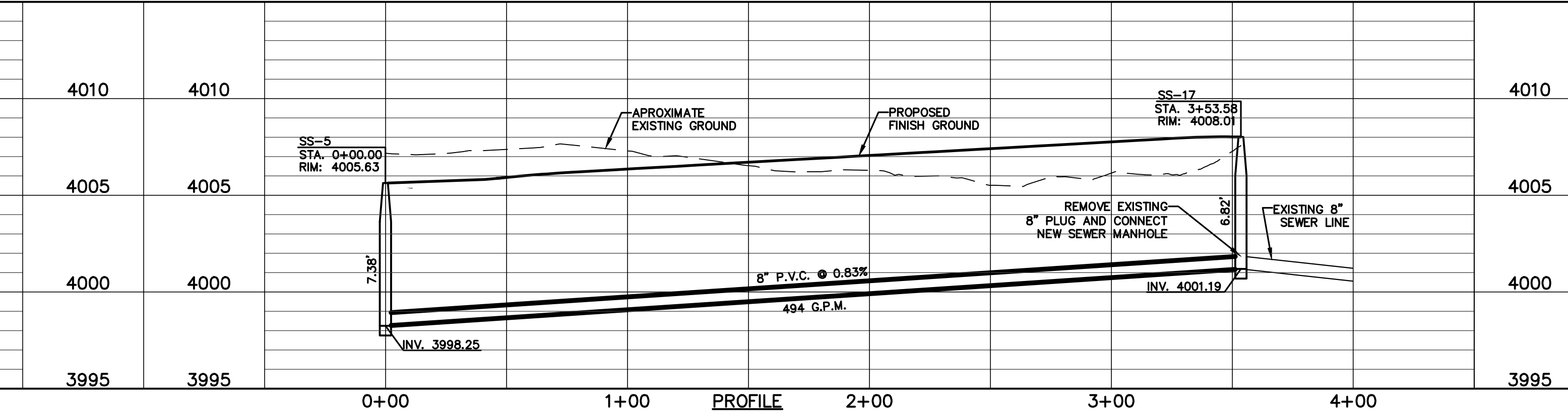
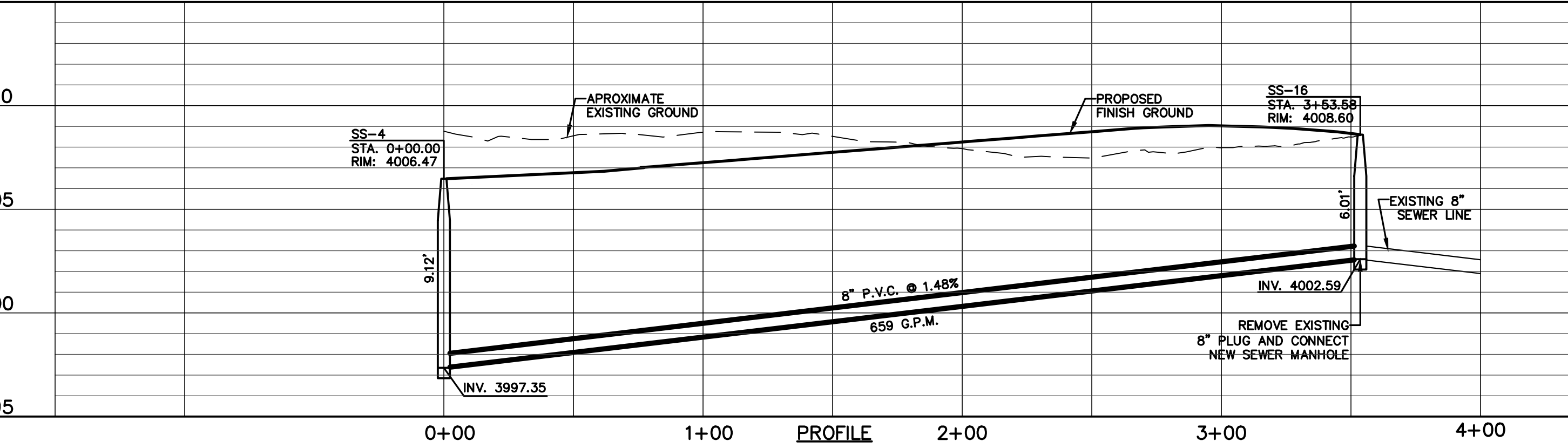
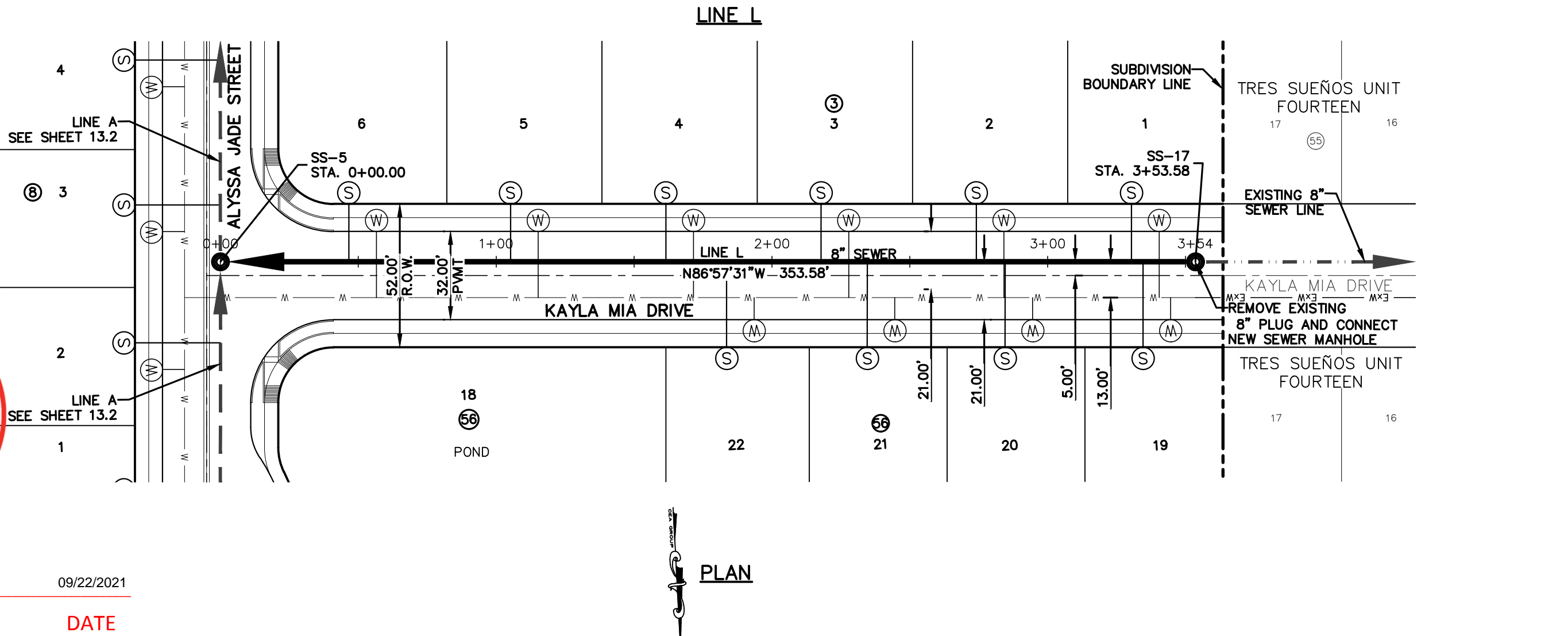


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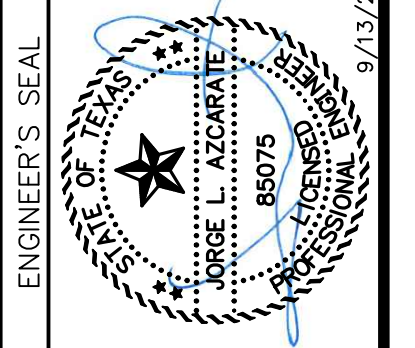
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- PROPOSED WATER LINE
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- EXISTING SEWER LINE
- PROPOSED SEWER LINE ON ANOTHER SHEET (PLAN VIEW)
- PROPOSED SEWER LINE
- PROPOSED WATER SERVICE
- PROPOSED SEWER SERVICE
- PROPOSED SEWER MANHOLE



Oscar Villalobos
BY DATE 09/22/2021



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El Paso, TX 79902
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TEXAS REGISTERED ENGINEERING FIRM F-4564



SCALE: Horizontal: 1"=40'
Vertical: 1"=5'
Contour Interval: N/A
DATE: SEPTEMBER 2021
DESIGN BY: G.J.M.
DRAWN BY: E.Z.
CHKD. BY: F.Z.
APPD. BY: J.L.A.
JOB No.: 2000-228

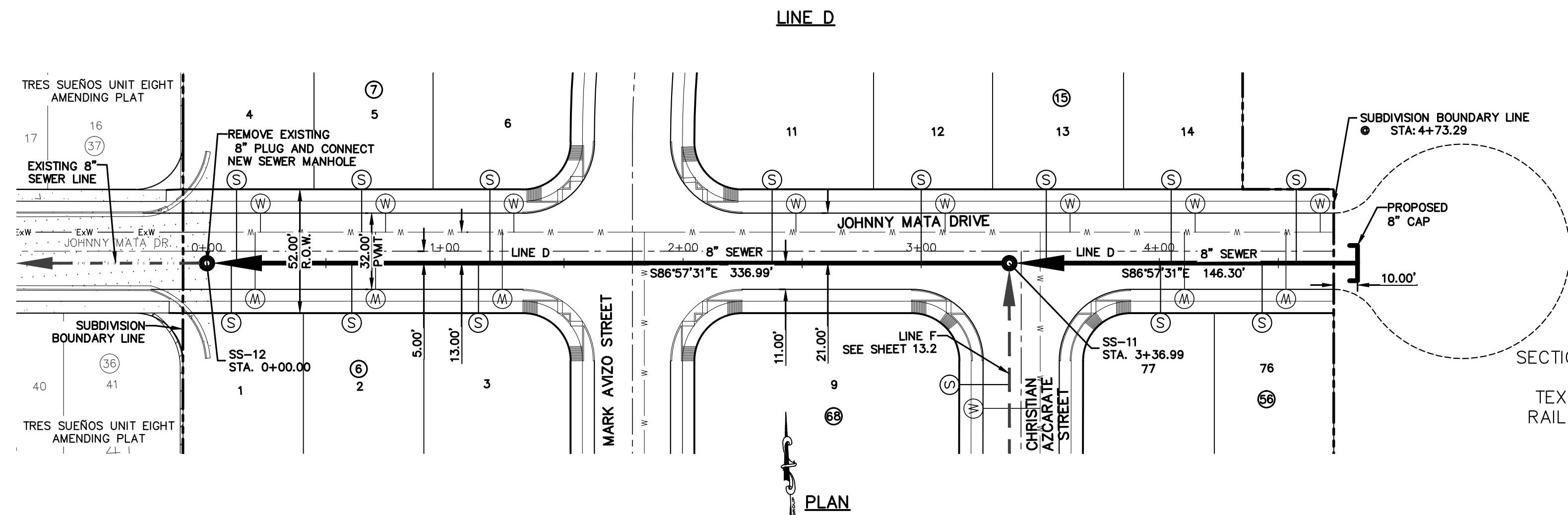
PROJECT TITLE
**TRES SUEÑOS UNIT TWENTY TWO
REPLAT "A"
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**SANITARY SEWER
PLAN & PROFILE
LINE C, K & L**

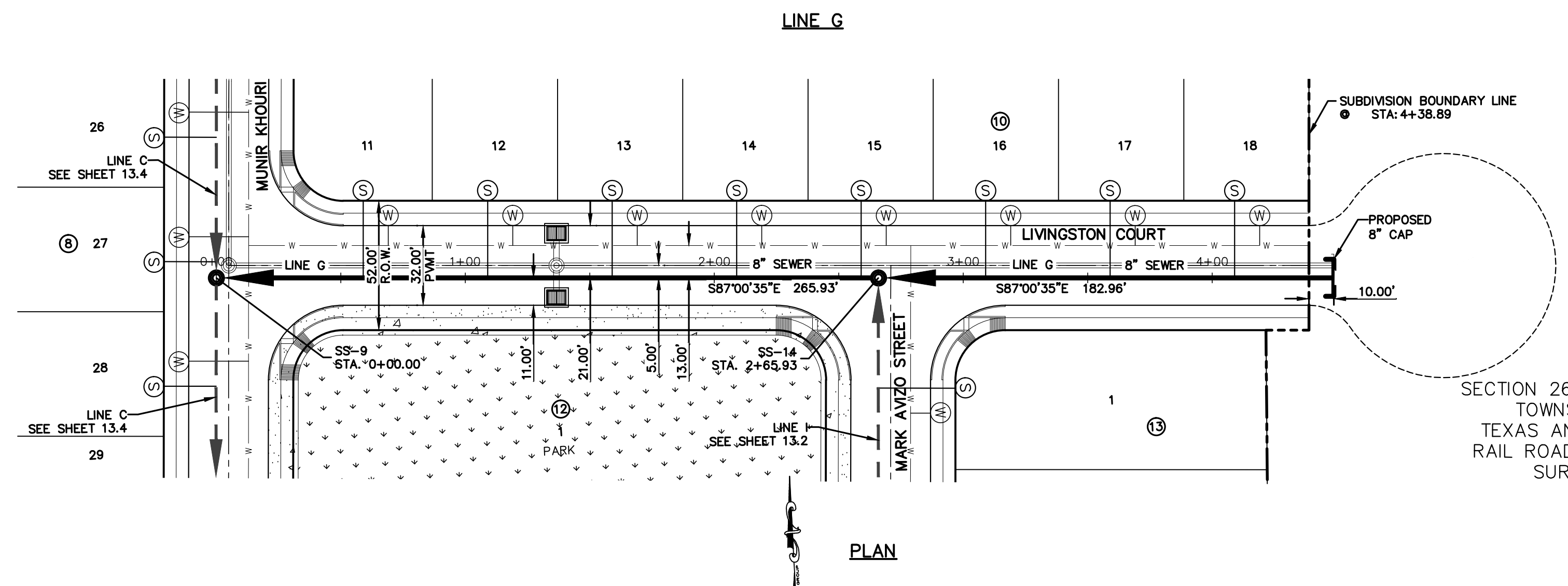
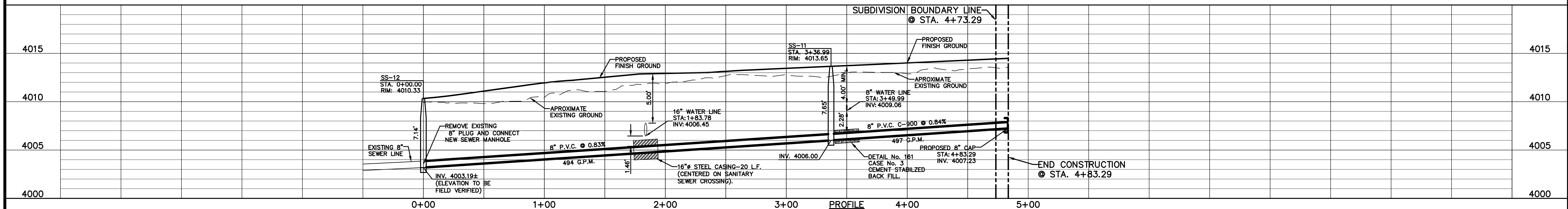
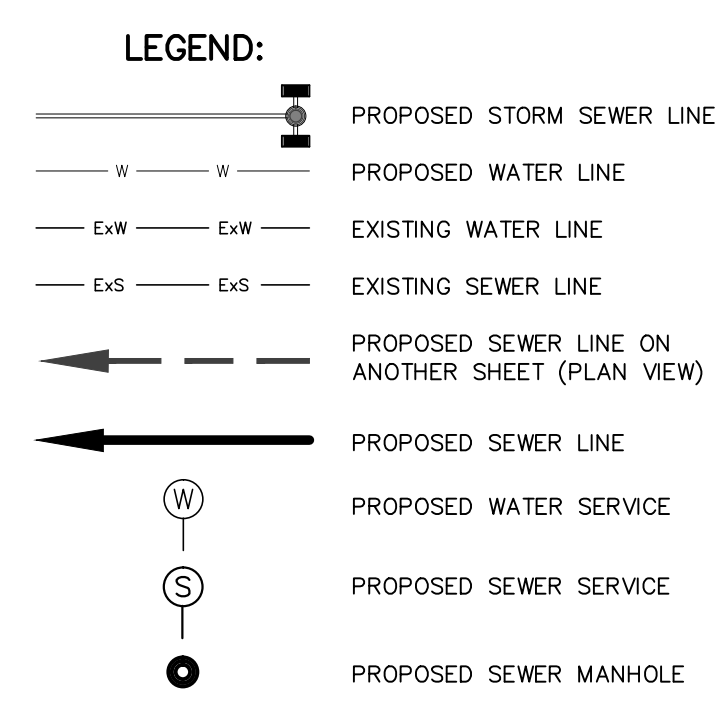
SHEET NO.
C13.4

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

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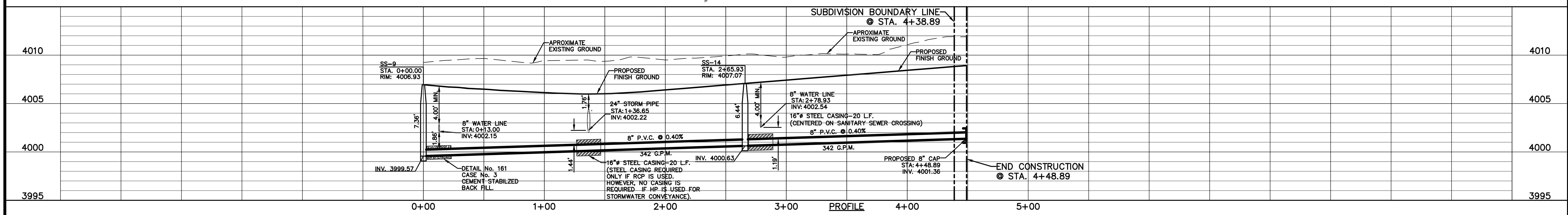
SECTION 26, BLOCK 79,
TOWNSHIP 2,
TEXAS AND PACIFIC
RAIL ROAD COMPANY
SURVEYS



SECTION 26, BLOCK 79,
TOWNSHIP 2,
TEXAS AND PACIFIC
RAIL ROAD COMPANY
SURVEYS



Oscar Villalobos
BY
09/22/2021
DATE



REFERENCES - BENCHMARKS
CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD., S08°43'31" A DISTANCE OF 487.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)

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Suite 300
El Paso, TX 79902
915.544.5232
www.ceagroup.net

CEA
Group
Texas Registered Engineering Firm F-4564

ENGINEER'S SEAL
Jorge L. Azcarate
Professional Engineer
No. 10075
State of Texas
9/13/21

SCALE
Horizontal: 1"=40'
Vertical: 1"=5'
Contour Interval: N/A

DATE: SEPTEMBER 2021
DESIGN BY: G.J.M.
DRAWN BY: E.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No.: 2000-228

PROJECT TITLE
**TRES SUEÑOS UNIT TWENTY TWO
REPLAT "A"
SUBDIVISION IMPROVEMENTS**

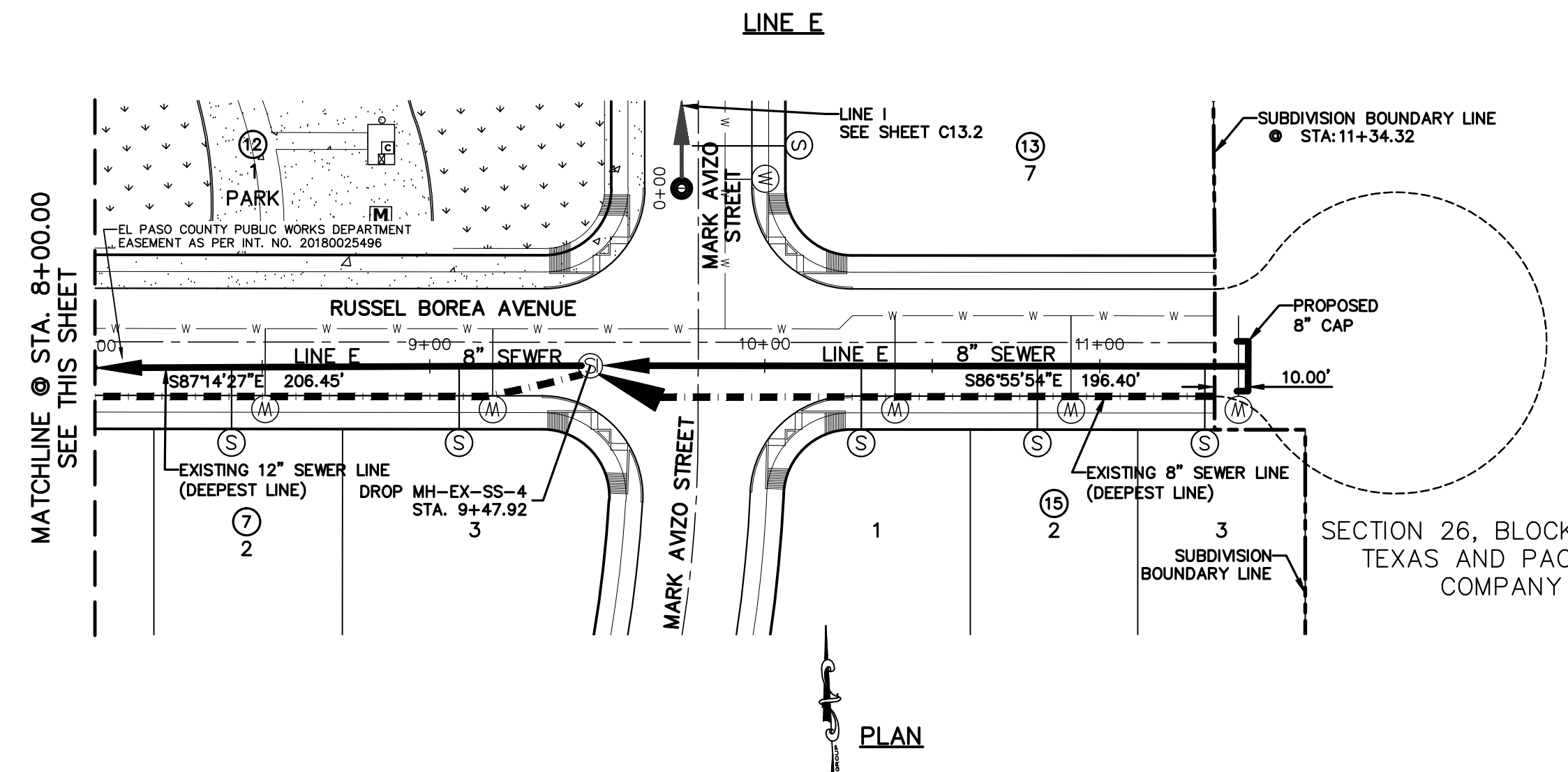
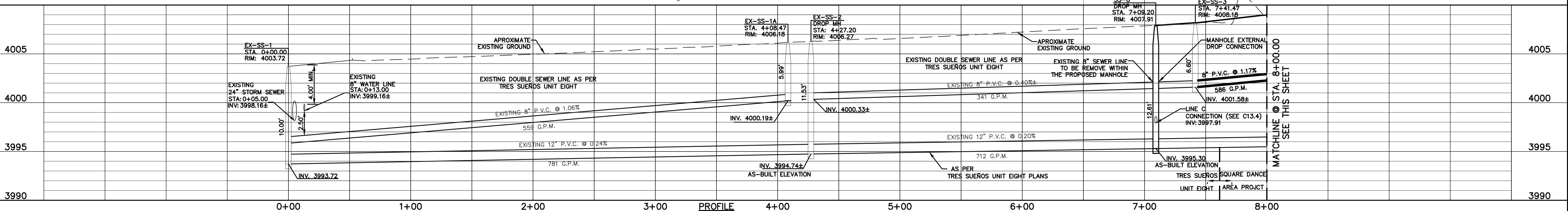
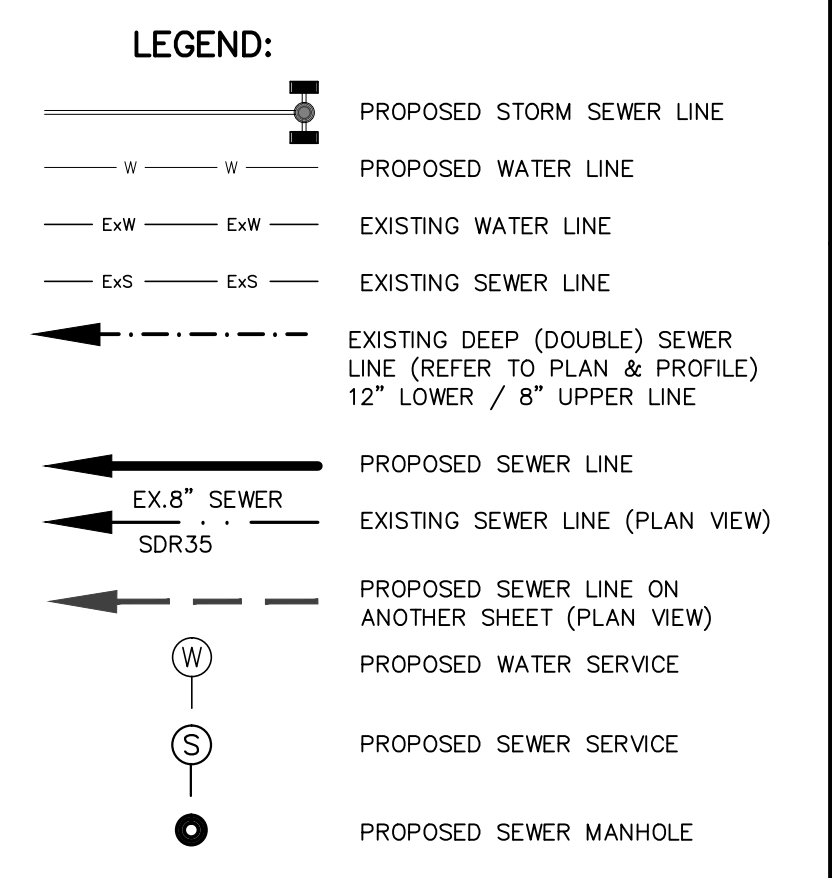
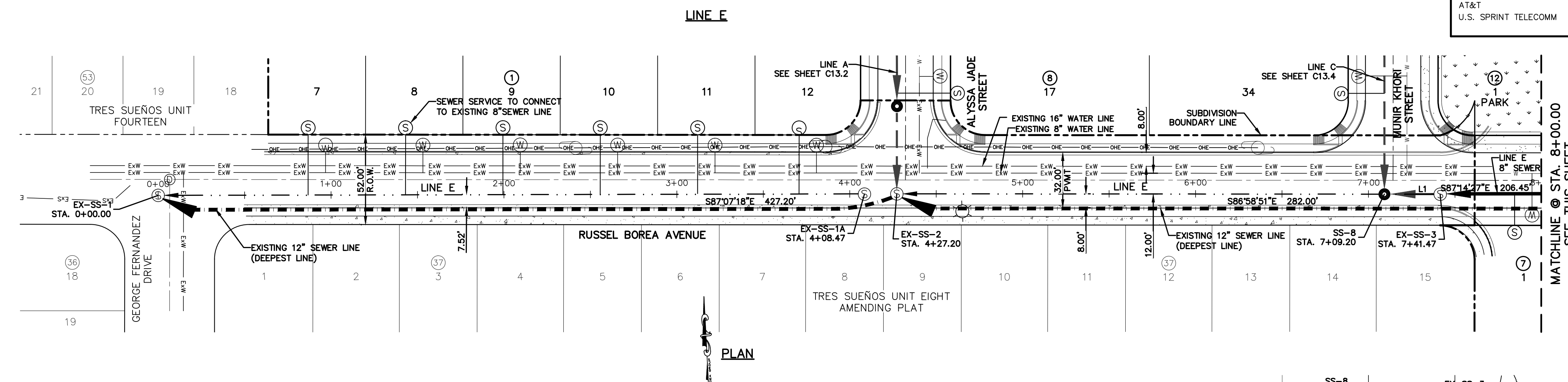
SHEET TITLE
**SANITARY SEWER
PLAN & PROFILE
LINE D & G**

SHEET NO.
C13.5

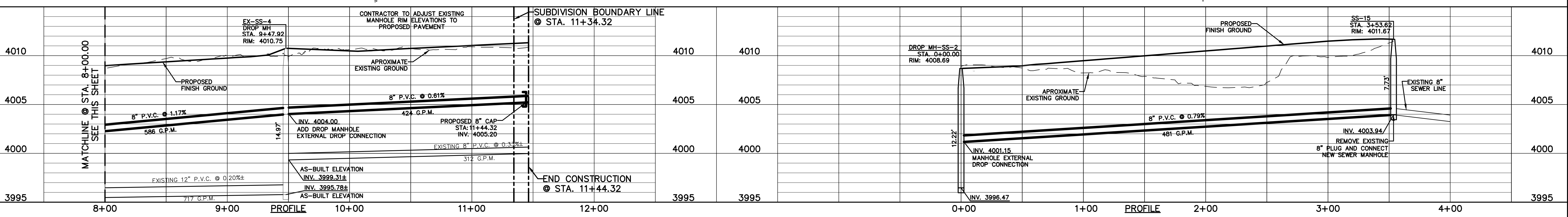
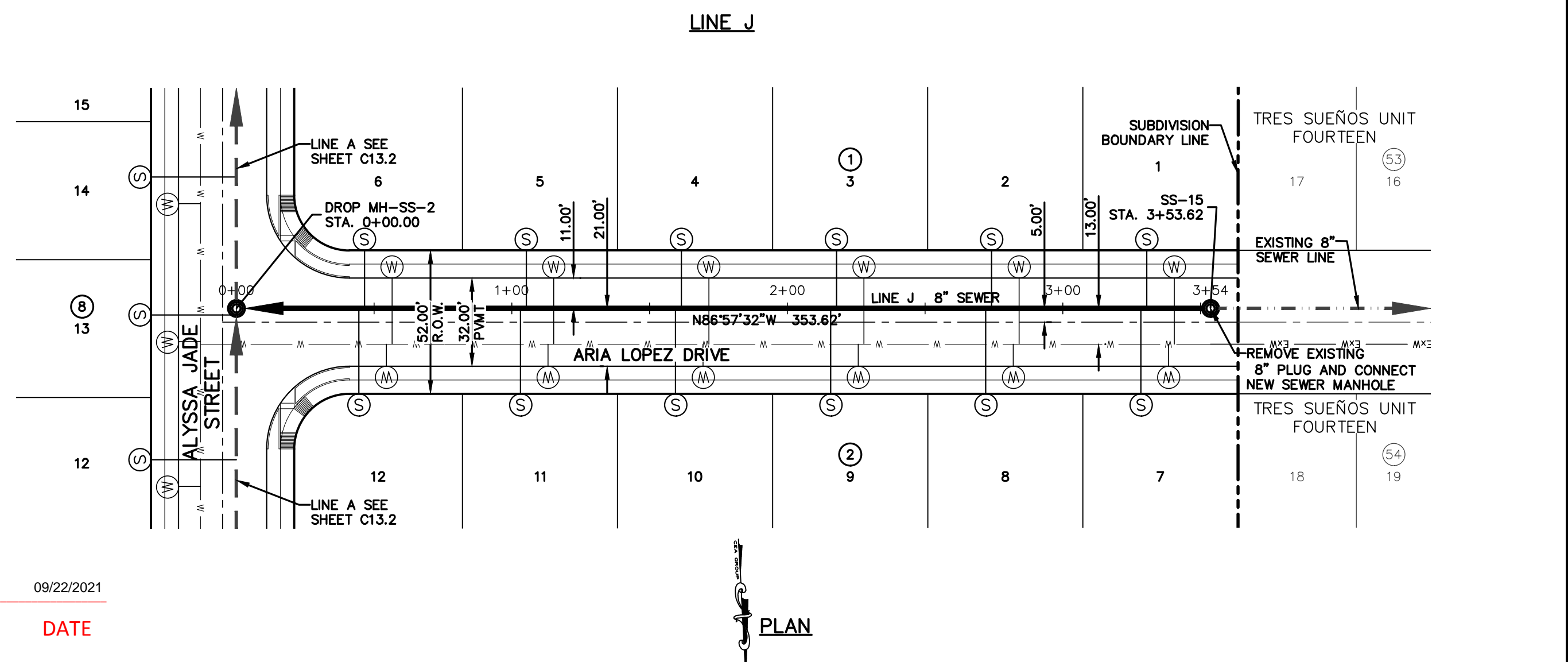
UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

WARNING!
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LINE TABLE		
LINE	BEARING	LENGTH
L1	S86°45'56"E	32.27'



Oscar Villalobos
BY
09/22/2021
DATE



REFERENCES - BENCHMARKS
CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD., S08°43'31" A DISTANCE OF 467.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)

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El Paso, TX 79902
915.544.5232
www.ceagroup.net

CEA GROUP
TEXAS REGISTERED ENGINEERING FIRM F-4564

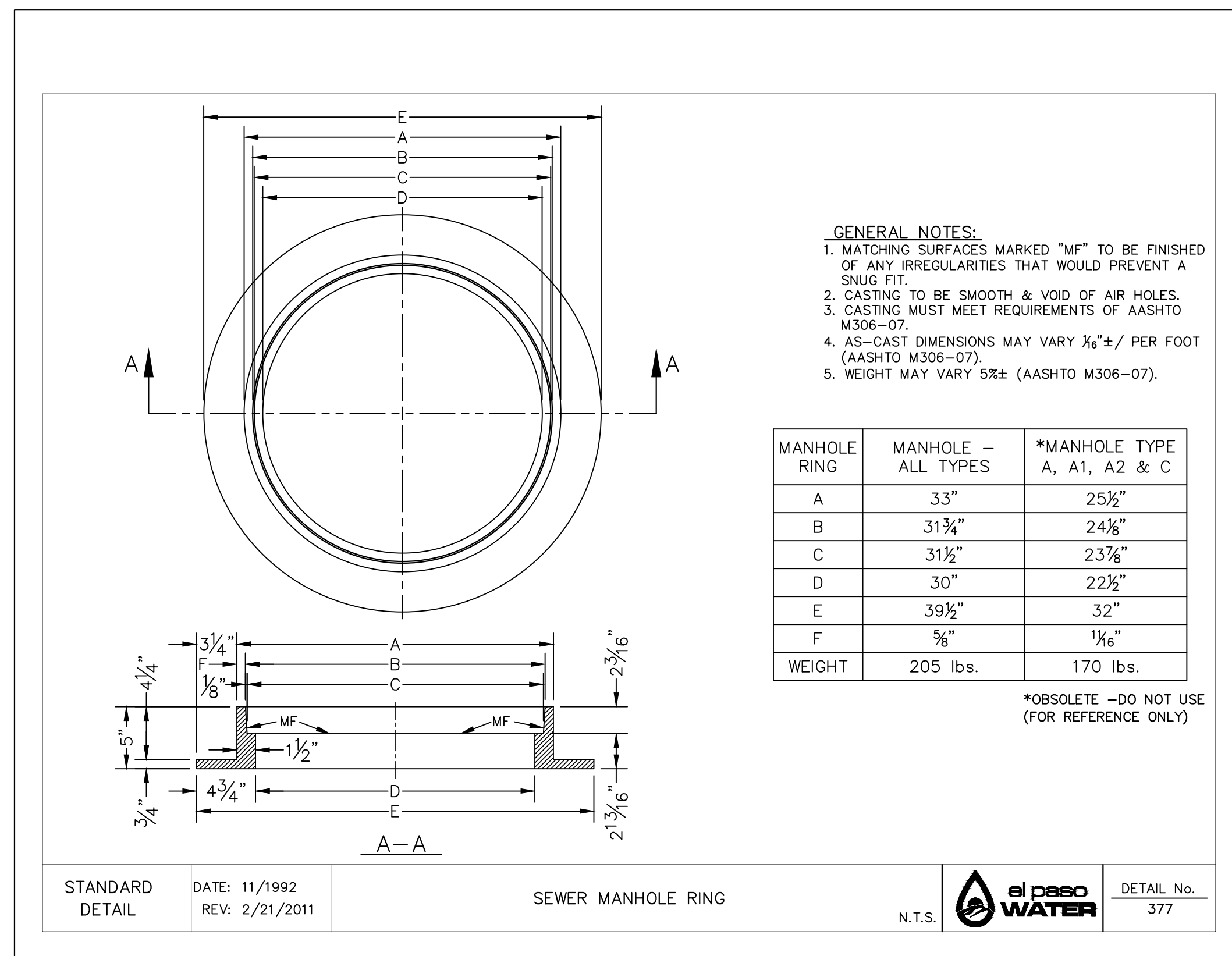
ENGINEER'S SEAL
JOSÉ L. AZCÁRATE
9/13/21

SCALE
Horizontal: 1"=40'
Vertical: 1"=5'
Contour Interval: N/A
DATE: SEPTEMBER 2021
DESIGN BY: G.J.M.
DRAWN BY: E.Z.
CHKD. BY: F.Z.
APPVD. BY: J.L.A.
JOB No.: 2000-228

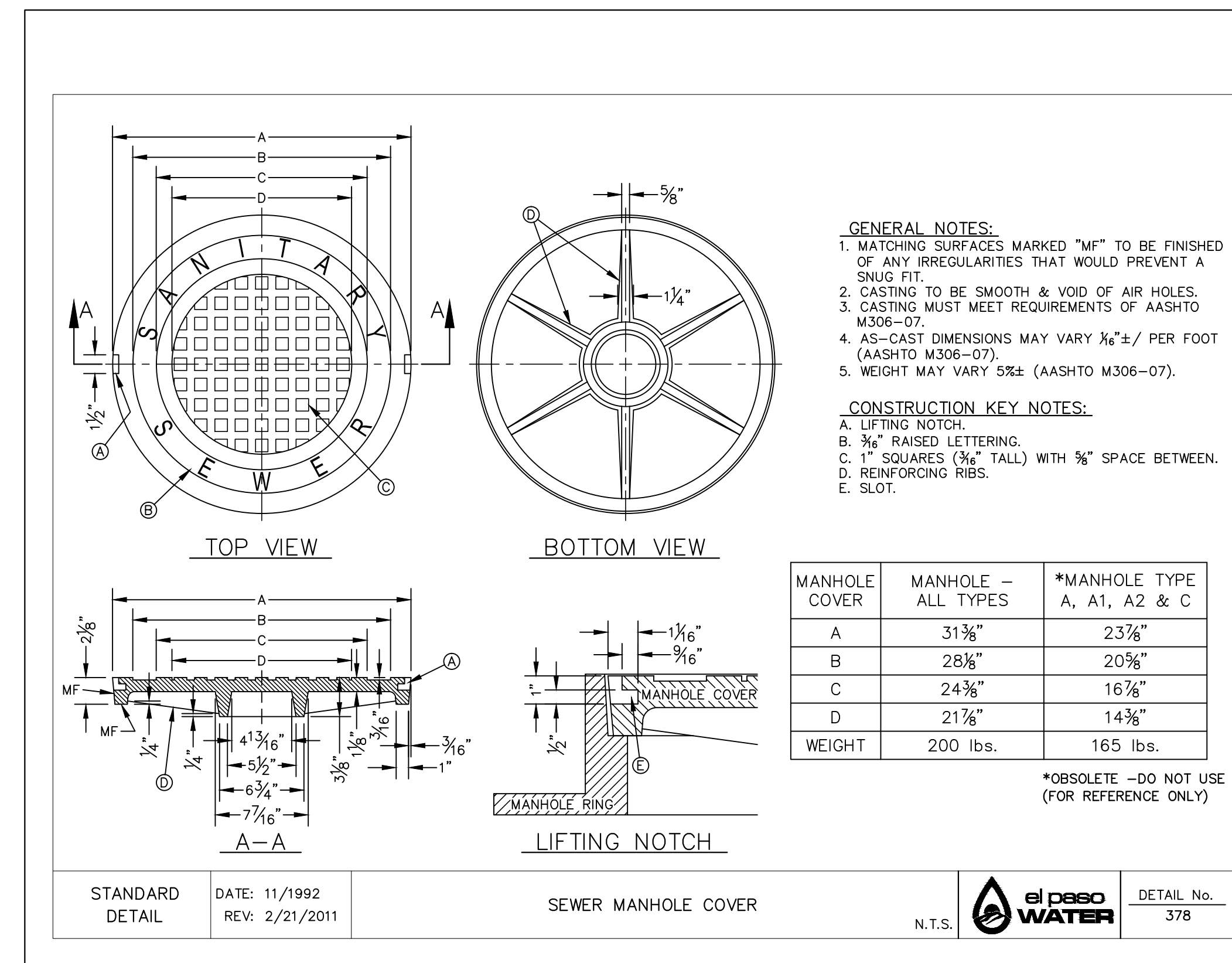
PROJECT TITLE
TRES SUEÑOS UNIT TWENTY TWO
REPLAT "A"
SUBDIVISION IMPROVEMENTS

SHEET TITLE
SANITARY SEWER
PLAN & PROFILE
LINE E & J

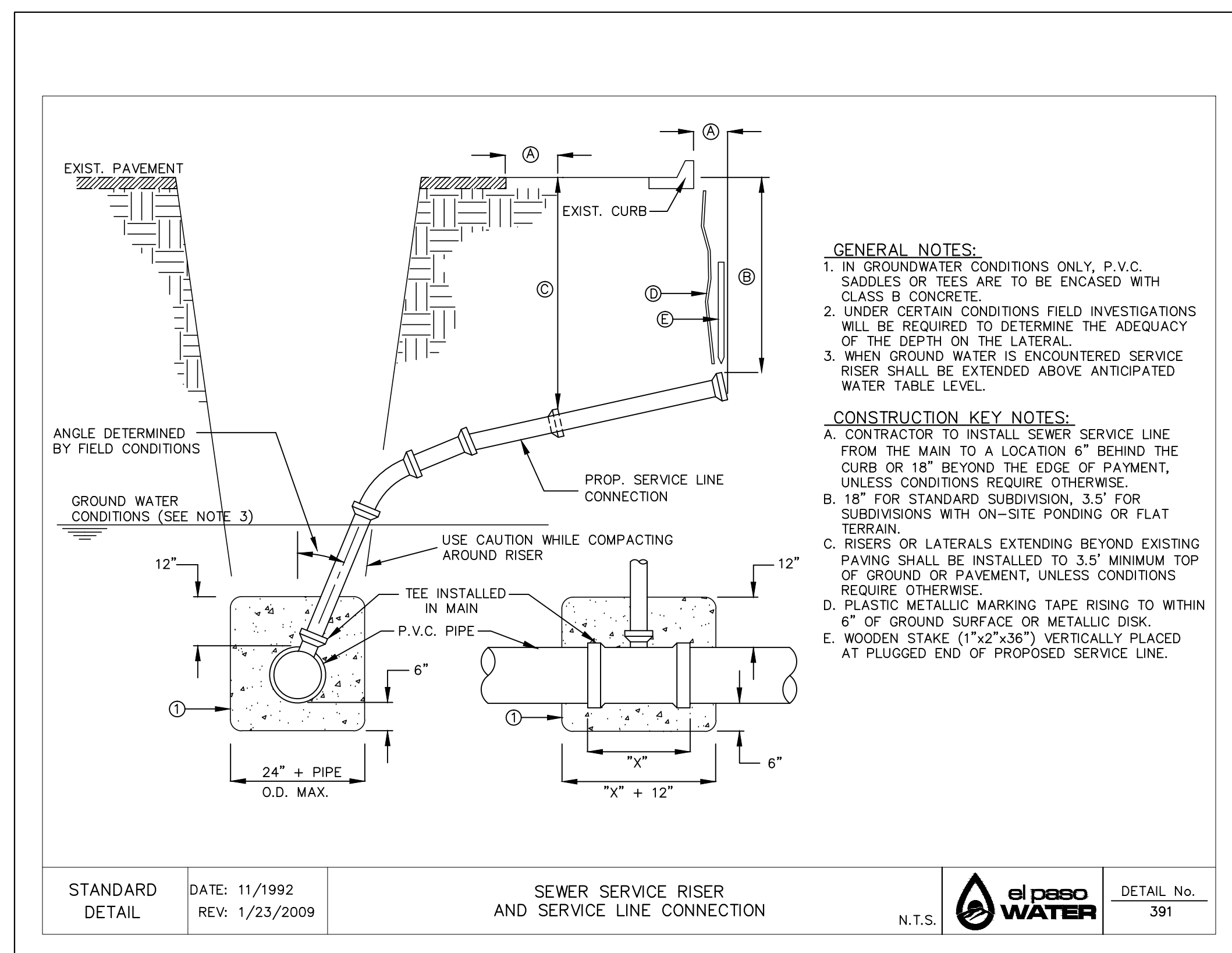
SHEET NO.
C13.6



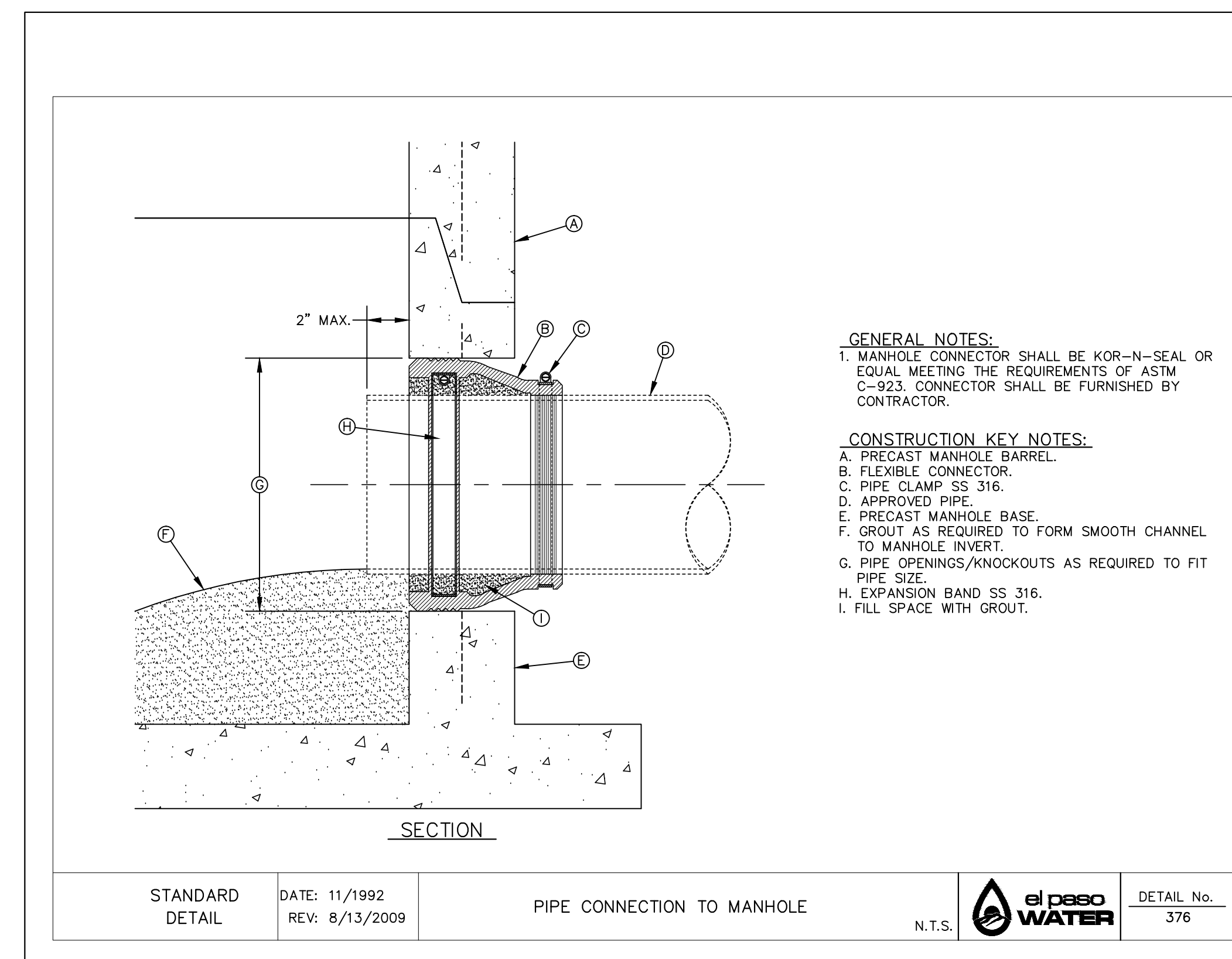
1 STANDARD MANHOLE RING SCALE: N.T.S.



2 STANDARD COVER DETAIL SCALE: N.T.S.



3 SEWER SERVICE RISER AND SERVICE LINE CONNECTION SCALE: N.T.S.



4 PIPE CONNECTION TO MANHOLE SCALE: N.T.S.



Oscar Villalobos

09/22/2021

BY

DATE

REFERENCES - BENCHMARKS

CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD., S08°43'31" A DISTANCE OF 487.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.

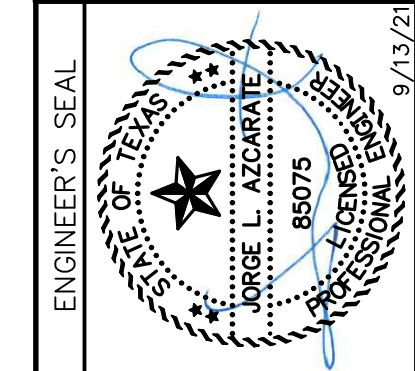
ELEVATION: 4014.90 (NAVD 88) (4005.40 CITY DATUM)

DATE	REVISIONS	BY

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915.544.5232
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TEXAS REGISTERED ENGINEERING FIRM F-4564



SCALE: N/A

Horizontal: N/A

Vertical: N/A

Contour Interval: N/A

DATE: SEPTEMBER 2021

DESIGN BY: G.J.M.

DRAWN BY: E.Z.

CHKD. BY: F.Z.

APPVD. BY: J.L.A.

JOB No. 2000-228

PROJECT TITLE

TRES SUEÑOS UNIT TWENTY TWO REPLAT "A" SUBDIVISION IMPROVEMENTS

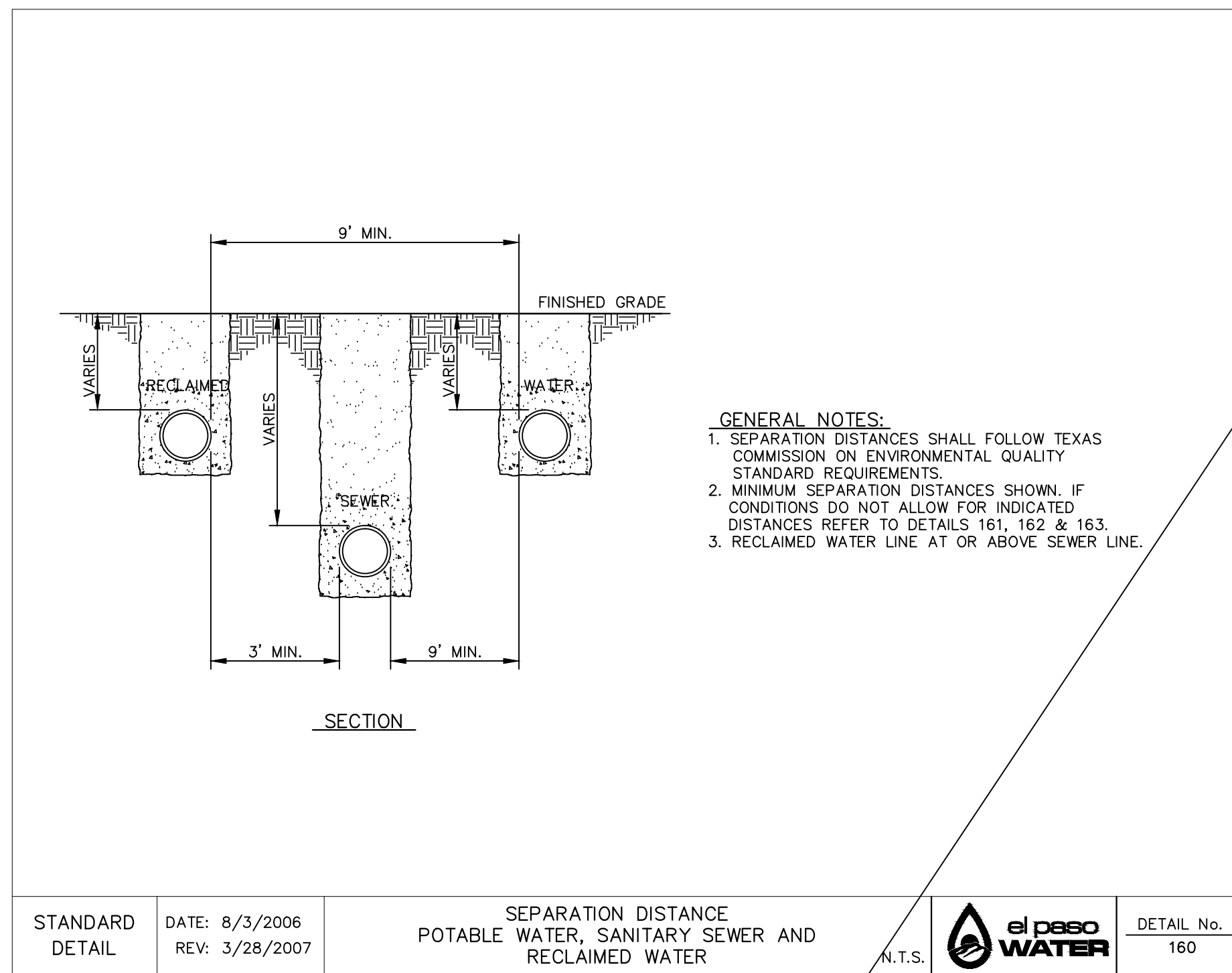
SHEET TITLE

SANITARY SEWER DETAILS

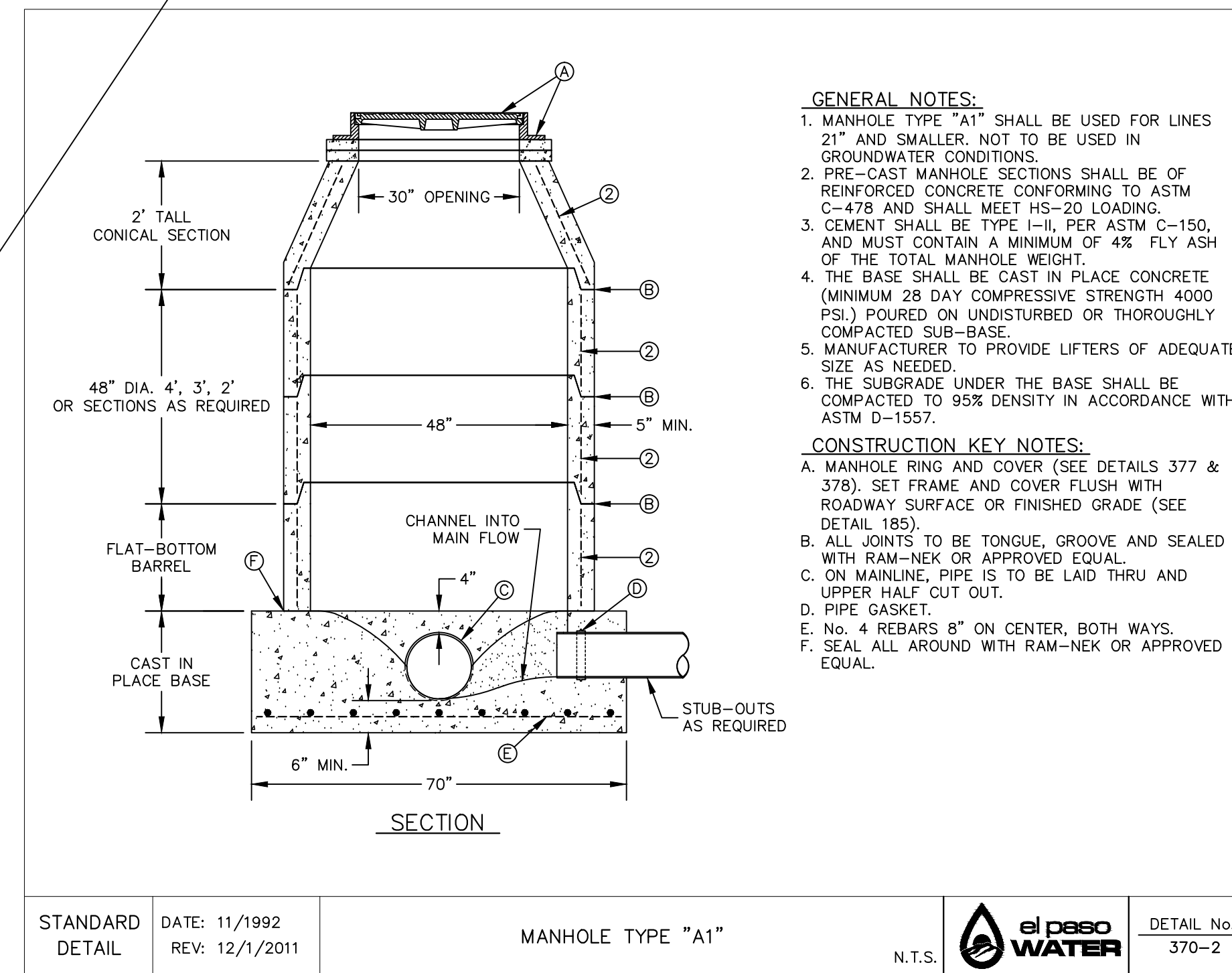
(SHEET 1 OF 3)

SHEET NO.

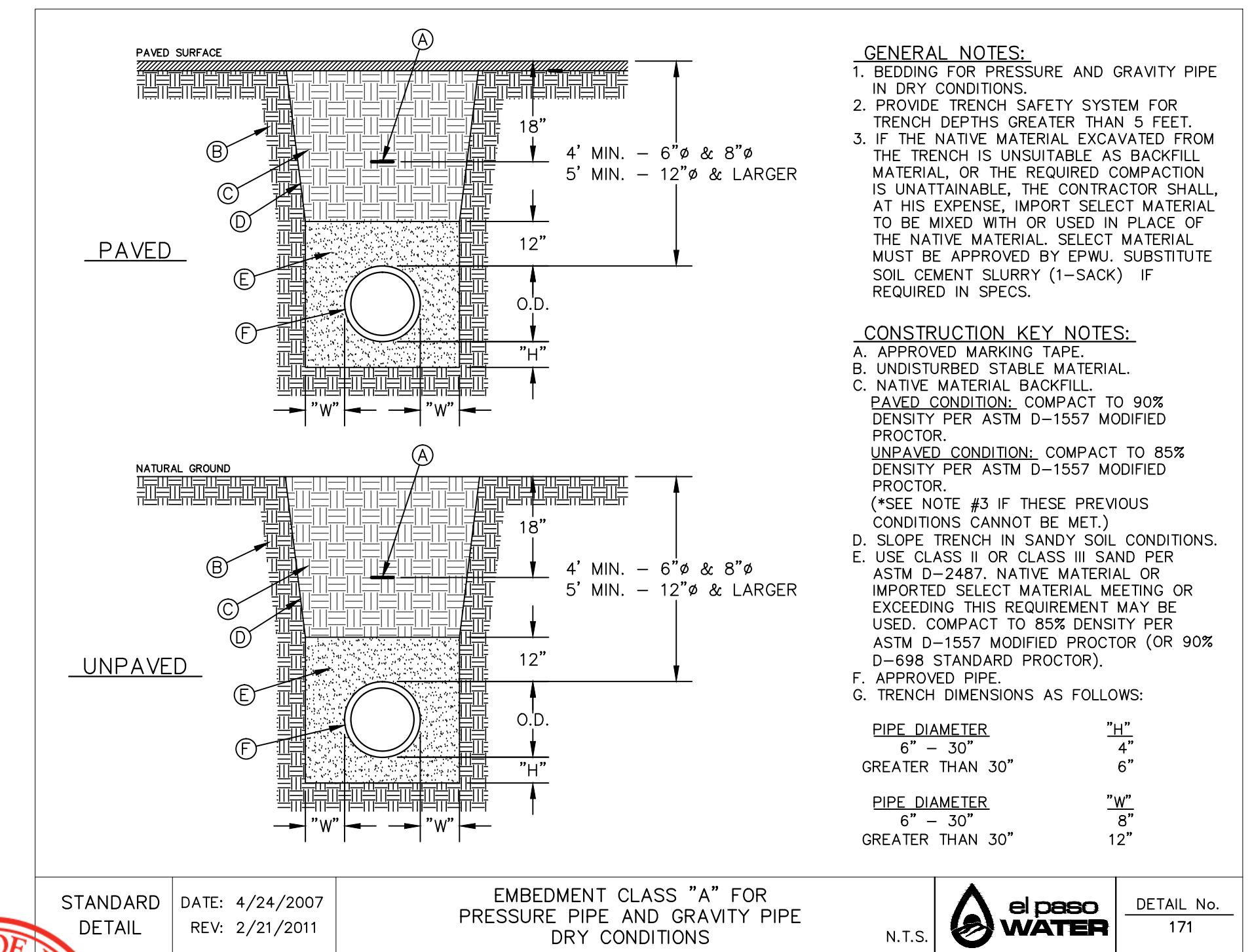
C13.7



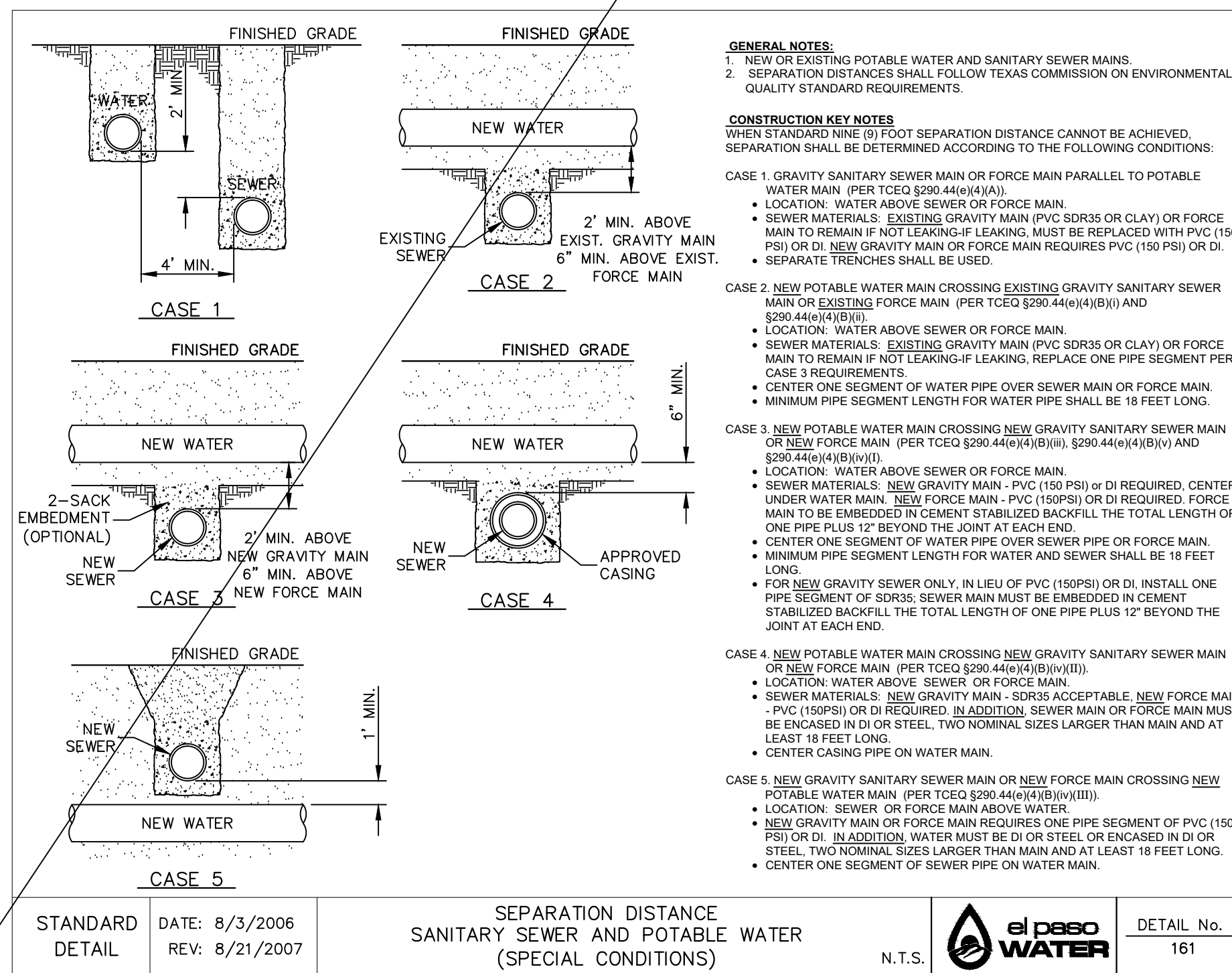
1 SEPARATION DISTANCE—POTABLE WATER, SANITARY SEWER AND RECLAIMED WATER
 SCALE: N.T.S.



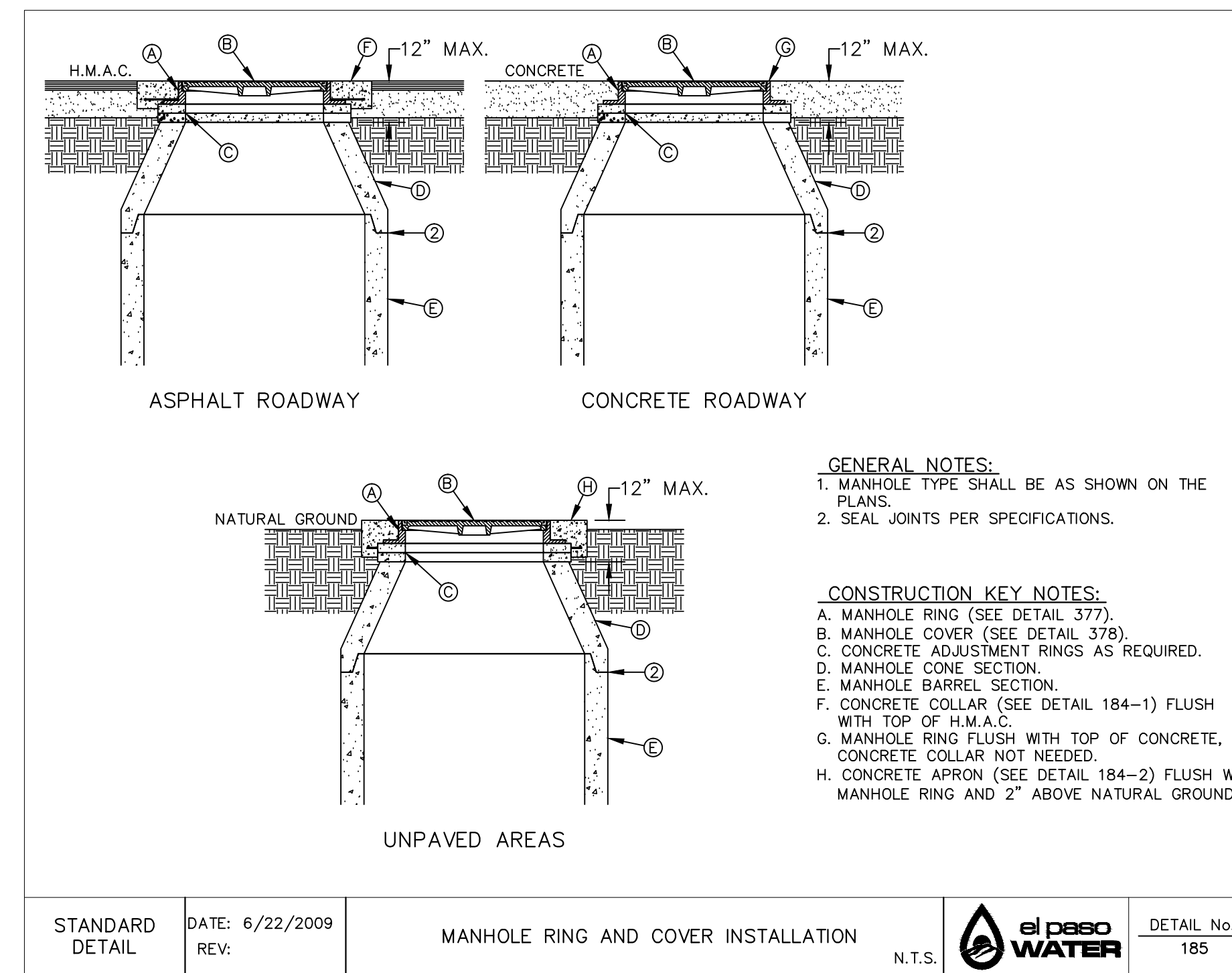
2 STANDARD MANHOLE TYPE "A1"
 SCALE: N.T.S.



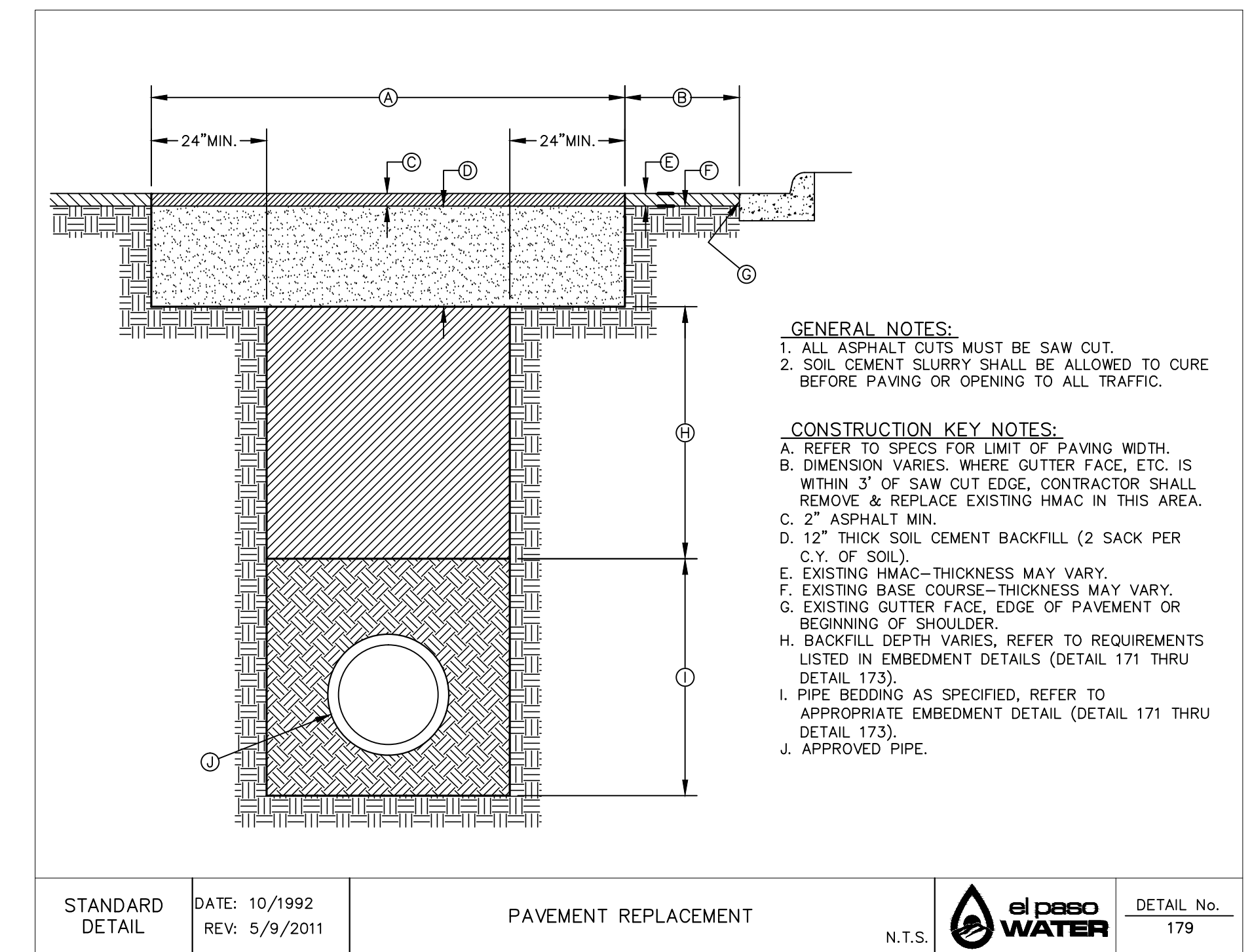
3 BEDDING CLASS DETAILS FOR FOR P.V.C. PRESSURE PIPE
 SCALE: N.T.S.



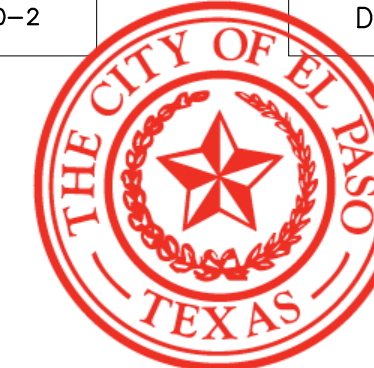
4 SEPARATION DISTANCE SANITARY SEWER AND POTABLE WATER (SPECIAL CONDITIONS)
 SCALE: N.T.S.



5 STANDARD MANHOLE RING AND COVER INSTALLATION DETAIL
 SCALE: N.T.S.



6 PAVEMENT REPAIR DETAIL
 SCALE: N.T.S.



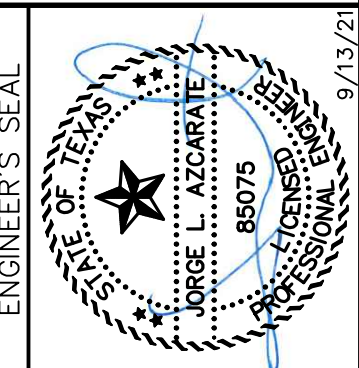
Oscar Villalobos
 BY DATE

REFERENCES - BENCHMARKS
 CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD., S08°43'31" A DISTANCE OF 487.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
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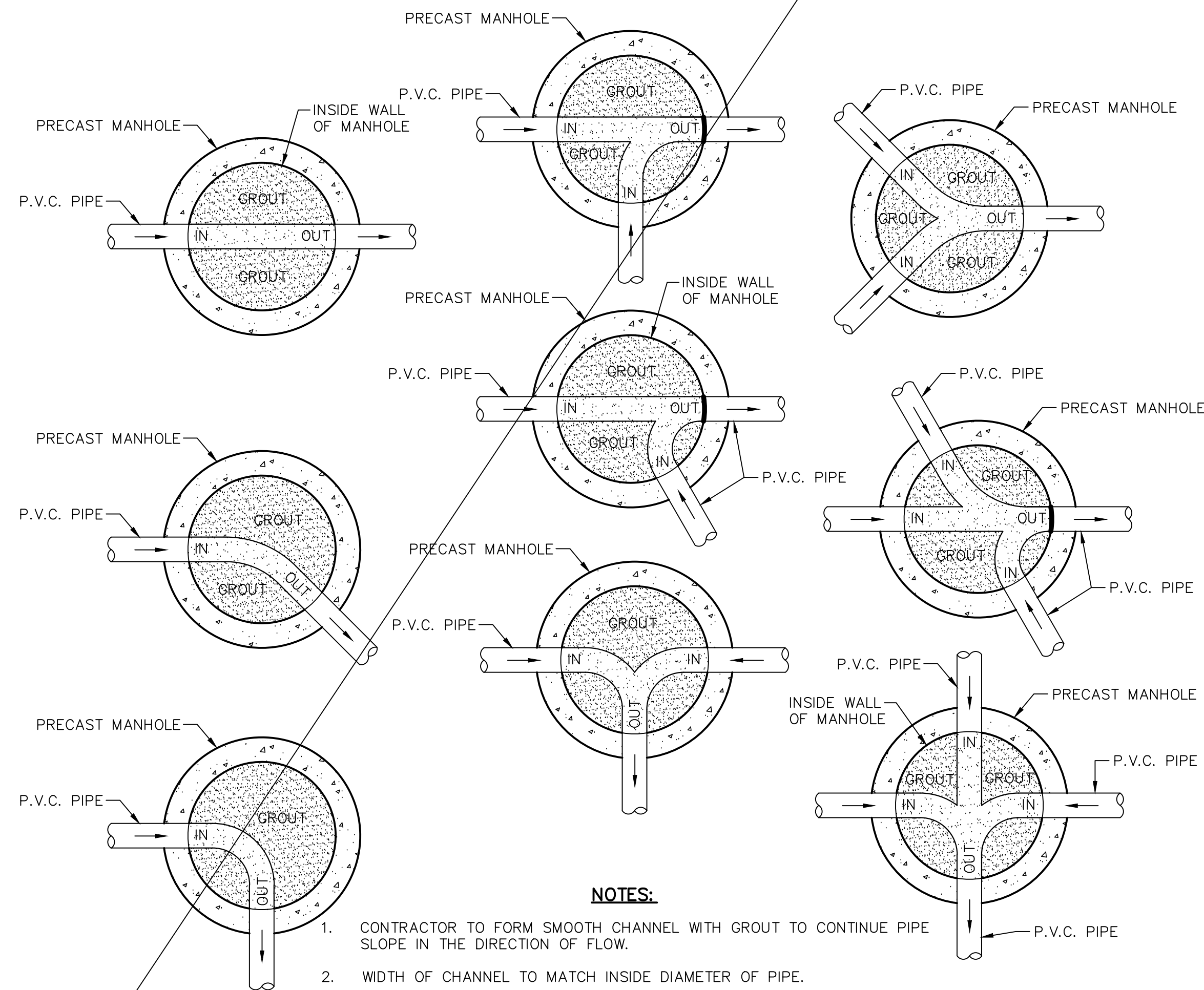
SCALE: N/A
 Horizontal: N/A
 Vertical: N/A
 Contour Interval: N/A

DATE: SEPTEMBER 2021
 DESIGN BY: G.J.M.
 DRAWN BY: E.Z.
 CHKD. BY: J.L.A.
 APPVD. BY: J.L.A.
 JOB No.: 2000-228

PROJECT TITLE
TRES SUEÑOS UNIT TWENTY TWO REPLAT "A" SUBDIVISION IMPROVEMENTS

SHEET TITLE
SANITARY SEWER DETAILS
 (SHEET 2 OF 3)
 SHEET NO.

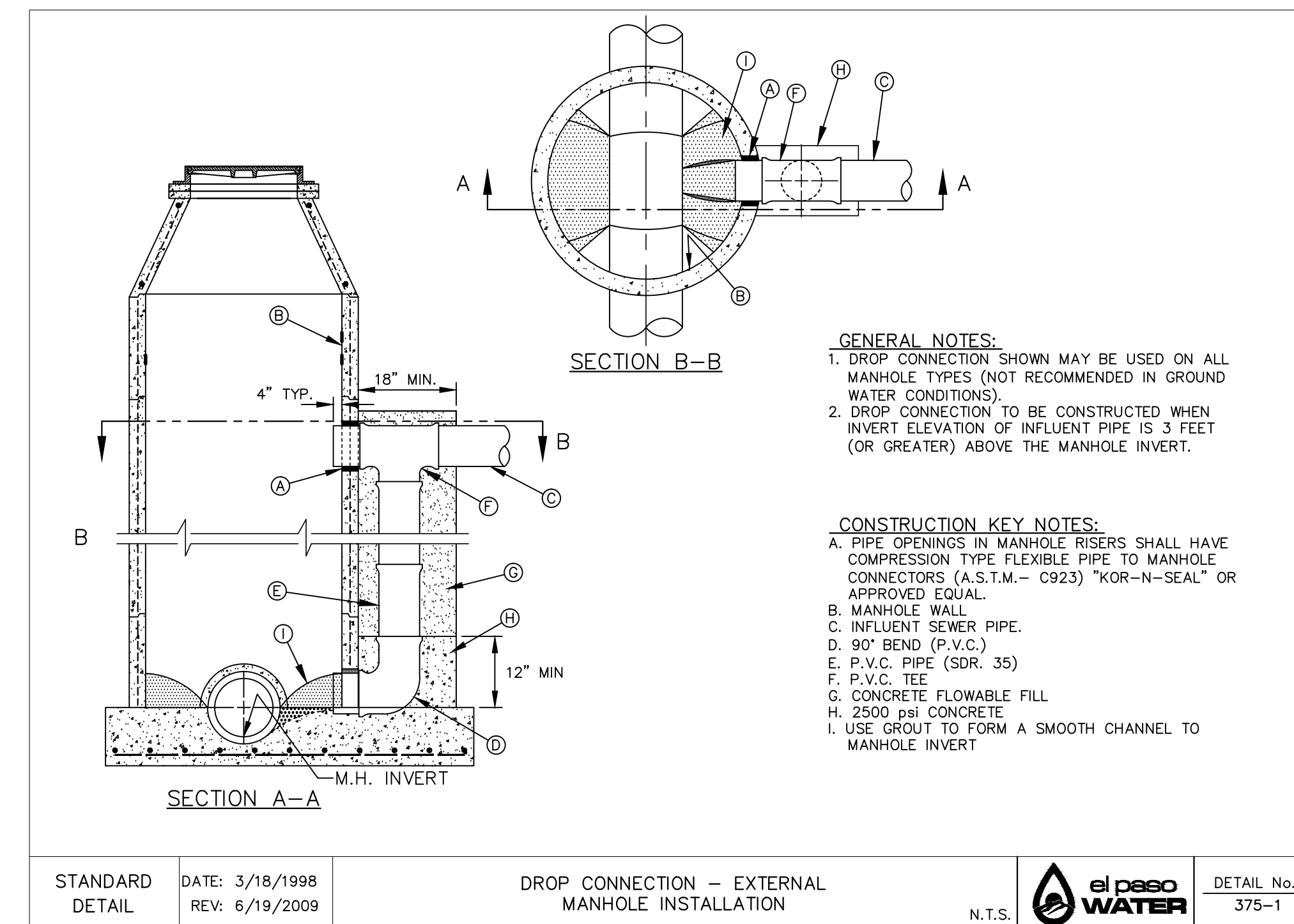
C13.8



NOTES:

1. CONTRACTOR TO FORM SMOOTH CHANNEL WITH GROUT TO CONTINUE PIPE SLOPE IN THE DIRECTION OF FLOW.
2. WIDTH OF CHANNEL TO MATCH INSIDE DIAMETER OF PIPE.
3. WHEN DIFFERENT SIZES OF PIPE ARE CONNECTING TO MANHOLE, TAPER WIDTH OF CHANNEL TO TOTAL LENGTH OF INSIDE DIAMETER OF MANHOLE.
4. GROUT TO BE USED FOR BOTH MANHOLES AND DROP MANHOLES. NO P.V.C. PIPE SHALL BE INSTALLED IN MANHOLE.
5. REFER TO PLAN & PROFILE SHEETS FOR SIZE OF PIPES AND MANHOLES.

1
C13.9 **TYPICAL MANHOLE INVERT PLANS**
SCALE: N.T.S.



GENERAL NOTES:

1. DROP CONNECTION SHOWN MAY BE USED ON ALL MANHOLE TYPES (NOT RECOMMENDED IN GROUND WATER CONDITIONS).
2. DROP CONNECTION TO BE CONSTRUCTED WHEN INVERT ELEVATION OF INFLUENT PIPE IS 3 FEET (OR GREATER) ABOVE THE MANHOLE INVERT.

CONSTRUCTION KEY NOTES:

- A. PIPE OPENINGS IN MANHOLE RISERS SHALL HAVE COMPRESSION TYPE FLEXIBLE PIPE TO MANHOLE CONNECTORS (A.S.T.M. - C923) "KOR-N-SEAL" OR APPROVED EQUAL.
- B. MANHOLE WALL.
- C. INFLUENT SEWER PIPE.
- D. 90° BEND (P.V.C.)
- E. P.V.C. PIPE (SDR. 35)
- F. P.V.C. TEE
- G. CONCRETE FLOWABLE FILL
- H. 2500 psi CONCRETE
- I. USE GROUT TO FORM A SMOOTH CHANNEL TO MANHOLE INVERT

STANDARD DETAIL	DATE: 3/18/1998 REV: 6/19/2009	DROP CONNECTION - EXTERNAL MANHOLE INSTALLATION	N.T.S.	el paso WATER	DETAIL No. 375-1
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2
C13.9 **DROP CONNECTION MANHOLE**
SCALE: N.T.S.



Oscar Villalobos
BY
09/22/2021
DATE

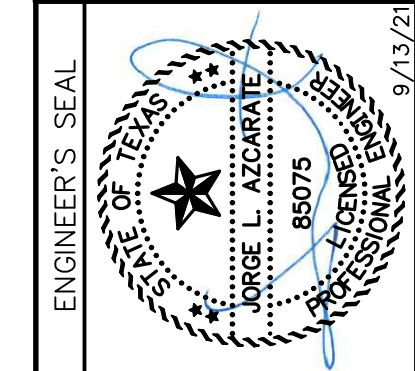
REFERENCES - BENCHMARKS

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TEXAS REGISTERED ENGINEERING FIRM F-4564



SCALE:	N/A
Horizontal:	N/A
Vertical:	N/A
Contour Interval:	N/A
DATE:	SEPTEMBER 2021
DESIGN BY:	G.J.M.
DRAWN BY:	E.Z.
CHKD. BY:	F.Z.
APPVD. BY:	J.L.A.
JOB No.:	2000-228

PROJECT TITLE

**TRES SUEÑOS UNIT TWENTY TWO
REPLAT "A"
SUBDIVISION IMPROVEMENTS**

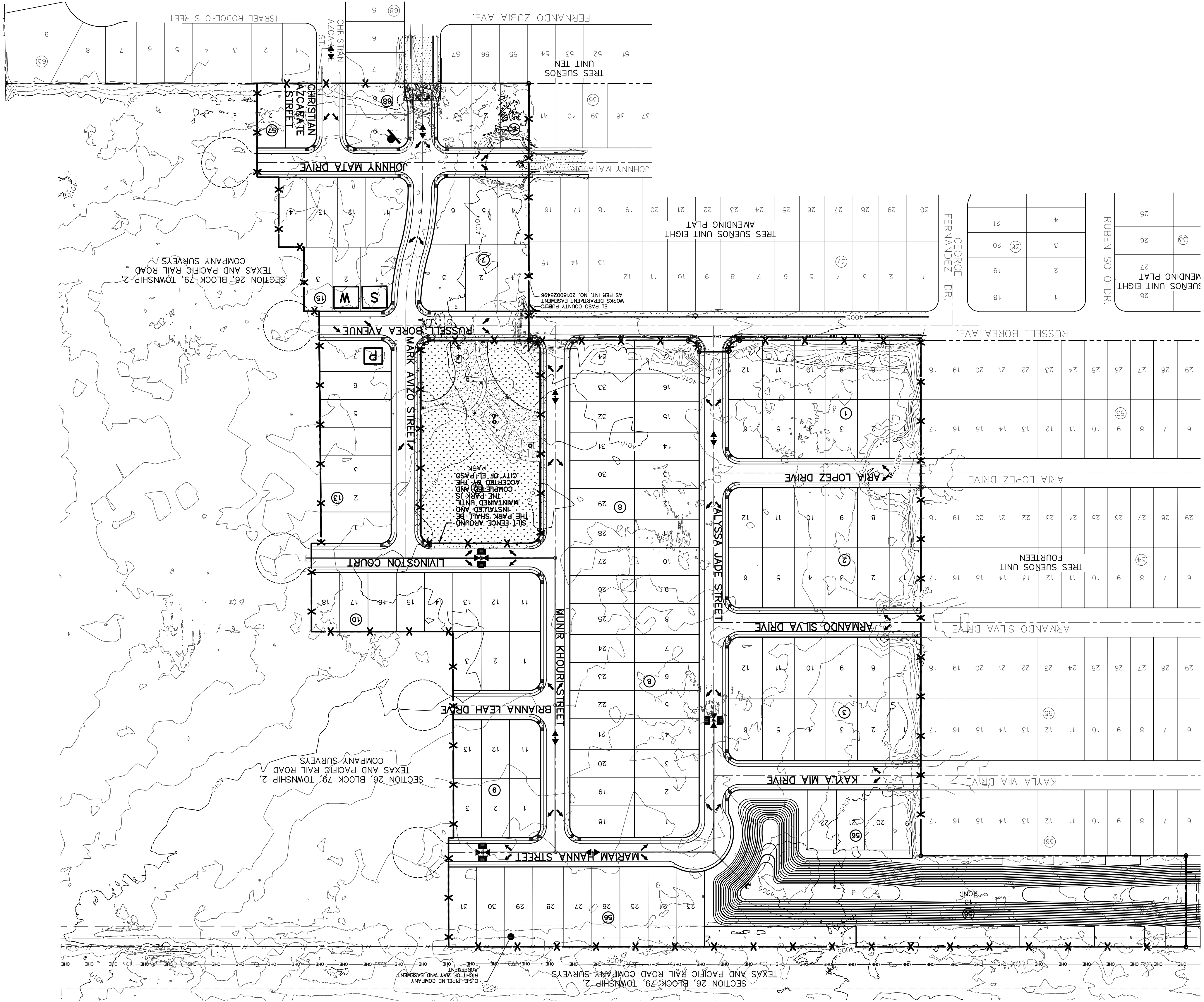
SHEET TITLE

**SANITARY SEWER
DETAILS**

(SHEET 3 OF 3)

SHEET NO.

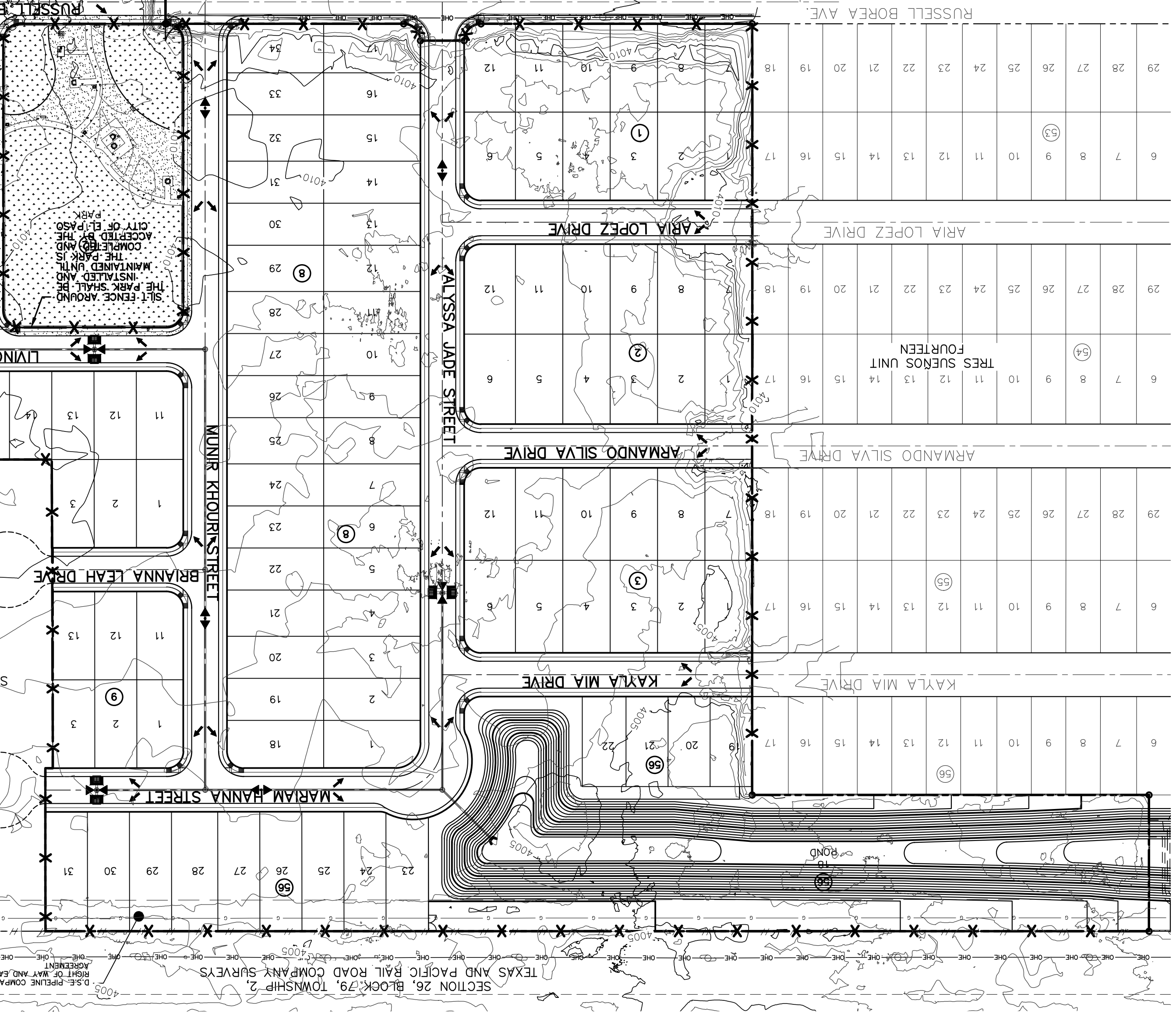
C13.9



28	27	26	25
18	19	20	21
1	2	3	4

18	19	20	21
1	2	3	4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30



UTILITY LOCATOR SERVICES
EL PASO ELECTRIC COMPANY (915) 543-5720
EL PASO ENERGY CORPORATION (915) 496-5244
EL PASO WATER UTILITIES (915) 594-5500
MCI SURVEILLANCE (800) MCI-WORK
TIME WARNER COMMUNICATIONS (915) 772-1123
TEXAS GAS SERVICE (800) 545-6000
AT&T (800) 452-3786
U.S. SPRINT TELECOMM (800) 521-0579

WARNING!
BEFORE YOU DIG
CALL 811

FOR FIELD LOCATING EXISTING UTILITIES



BY Oscar Villalobos
DATE 09/22/2021

SITE PLAN
SCALE: 1" = 100'

PROJECT TITLE
TRES SUEÑOS UNIT TWENTY TWO
REPLAT "A"
SUBDIVISION IMPROVEMENTS

ENGINEER'S SEAL
Jorge A. Zorrate
Professional Engineer
No. 85075
9/13/21

SCALE
Horizontal: 1" = 100'
Vertical: N/A
Contour Interval: N/A

DATE: SEPTEMBER 2021
DESIGN BY: G.J.M.
DRAWN BY: E.Z.
CHKD. BY: J.L.A.
APP'D. BY: J.L.A.
JOB NO.: 2000-228

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TEXAS REGISTERED ENGINEERING FIRM F-4564

REFERENCES - BENCHMARKS
CITY MONUMENT AT POINT OF CURVE CENTERLINE, RICH BEEM BLVD., S08+33.71 A DISTANCE OF 467.58 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
ELEVATION: 4014.90 (NAVD 88) (4905.40 CITY DATUM)

REVISIONS

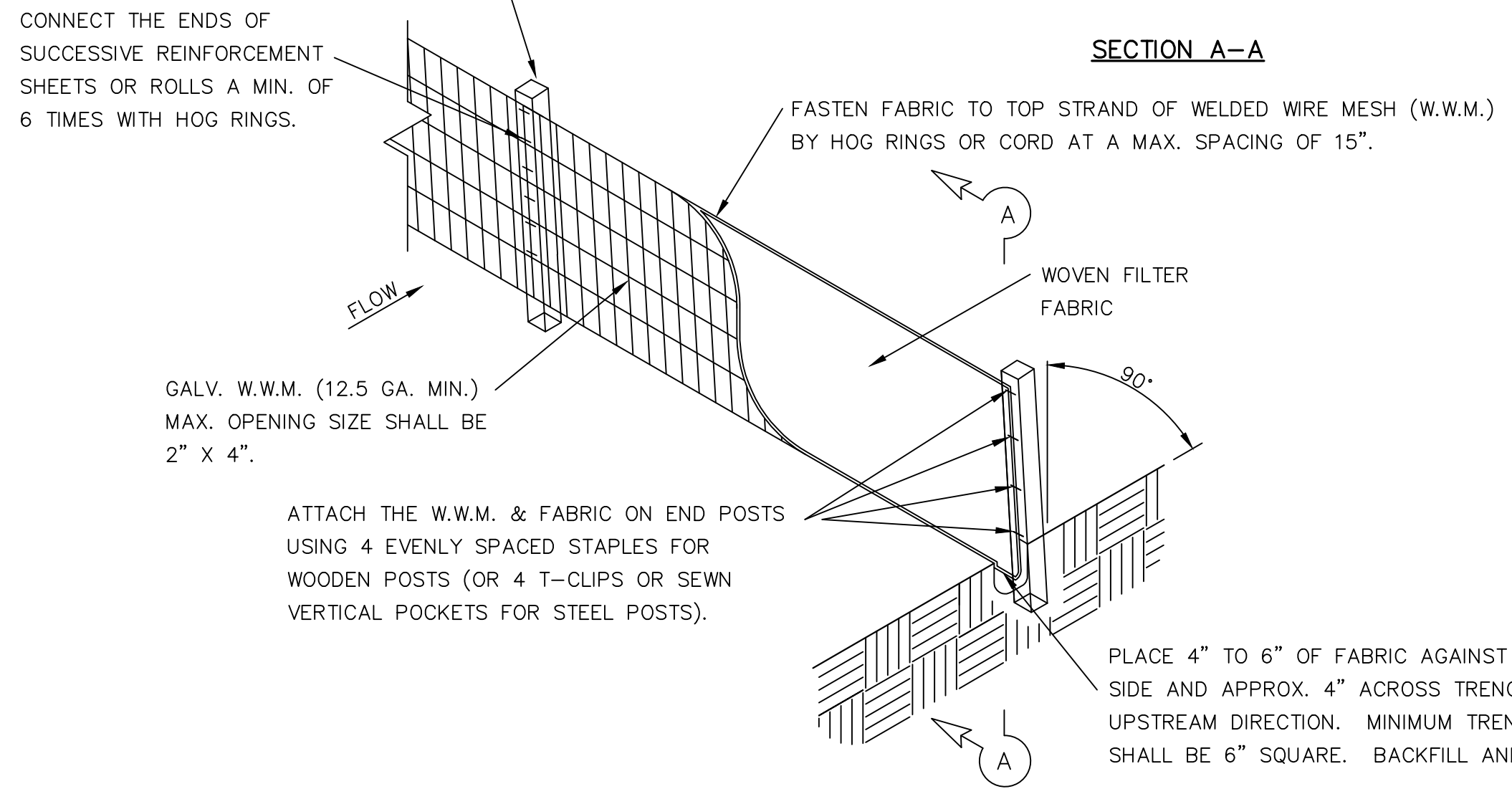
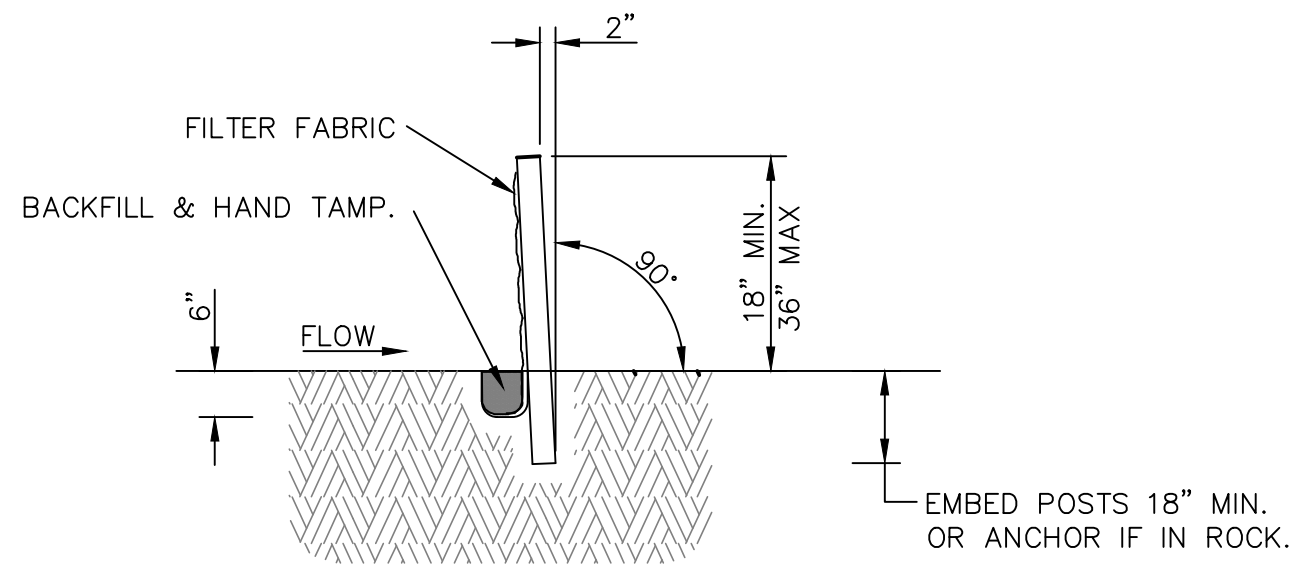
DATE	BY

SHEET NO.
STORM WATER
POLLUTION
PREVENTION
PLAN

SHEET TITLE

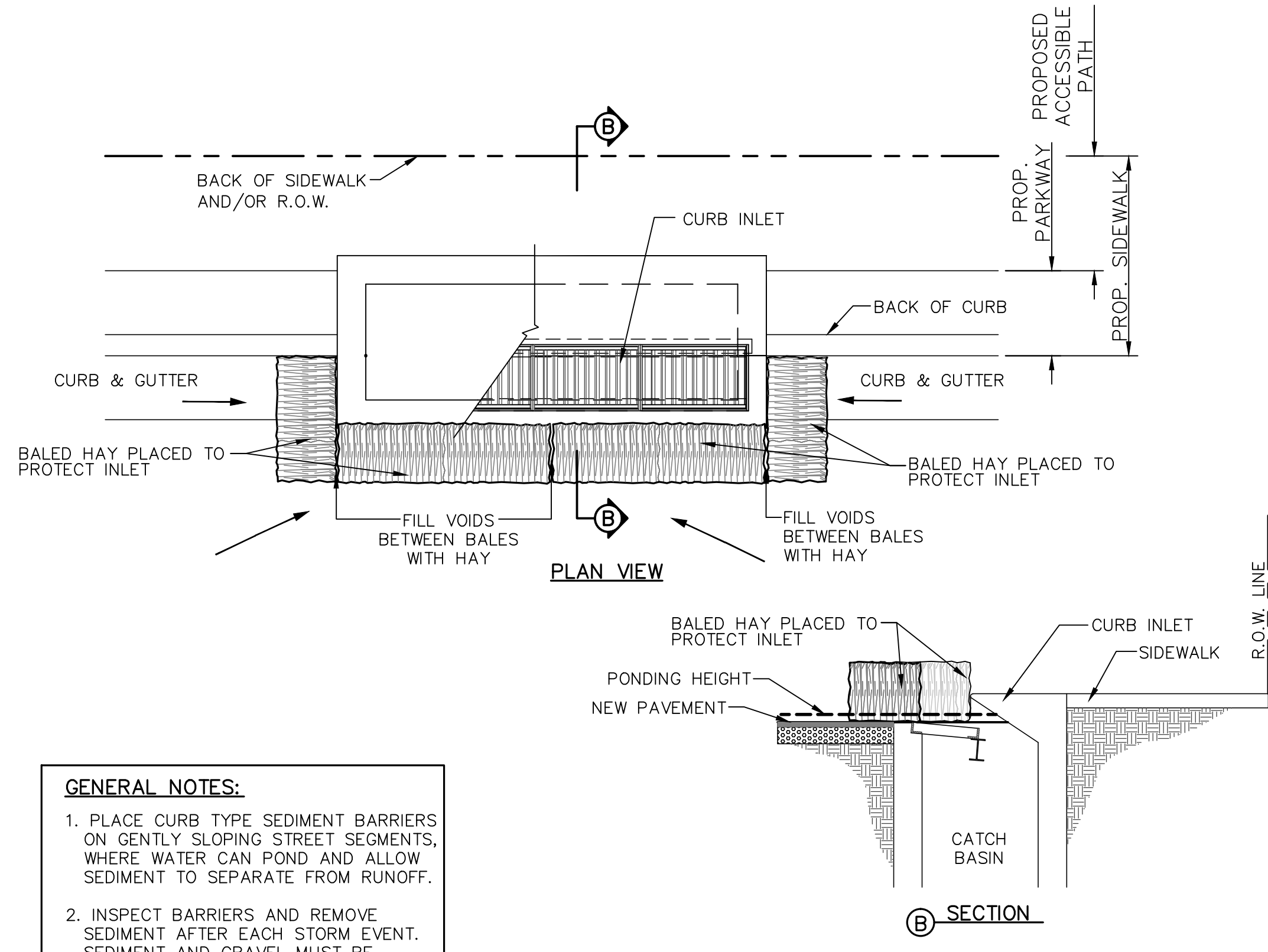
C14.2

4" MIN. STEEL OR WOOD POSTS SPACED AT 6' TO 8' O.C.
 SOFTWOOD POSTS SHALL BE 3" MIN. DIA. OR NOMINAL 2"x4".
 HARDWOOD POSTS SHALL HAVE A MIN. CROSS SECTION OF 1.5" X 1.5".



SECTION A-A

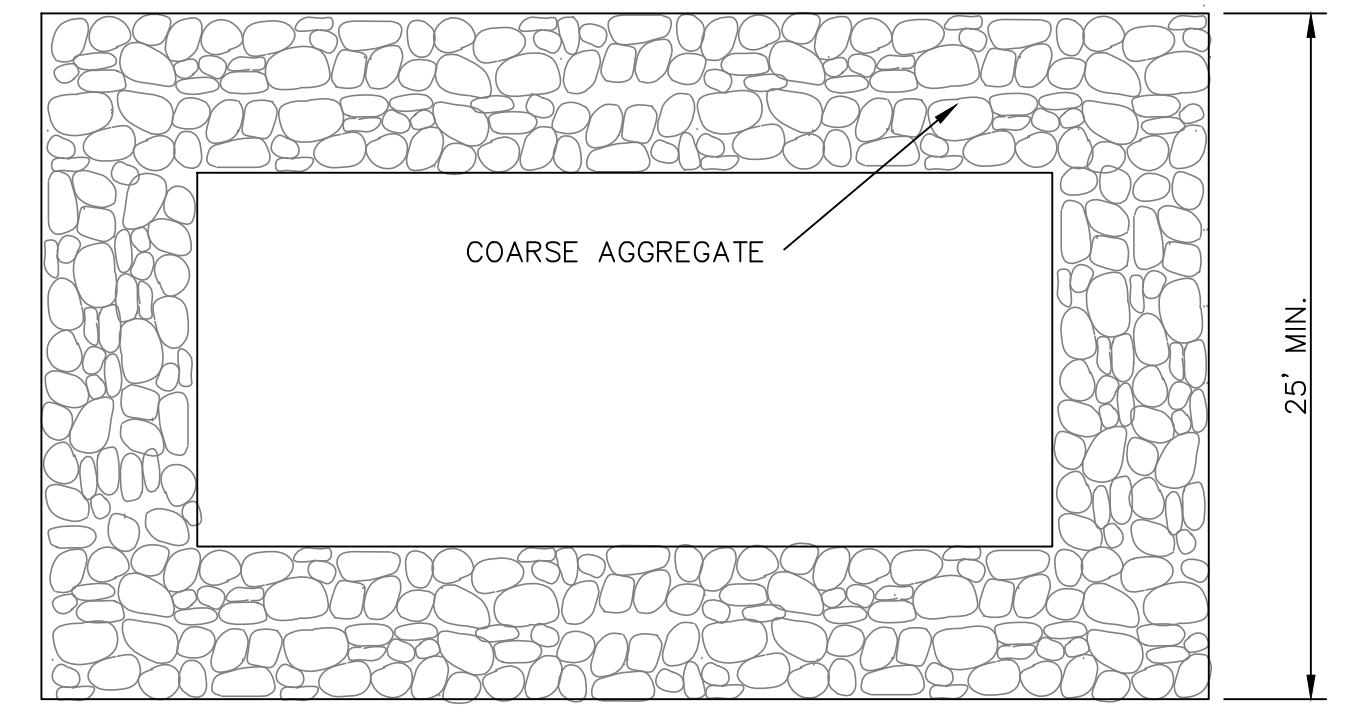
TEMPORARY SEDIMENT CONTROL FENCE



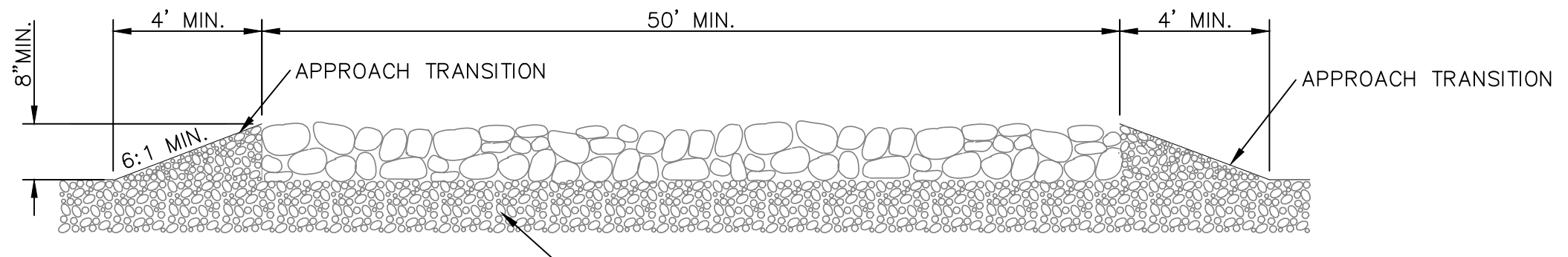
GENERAL NOTES:

1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

TEMPORARY INLET PROTECTION



PLAN

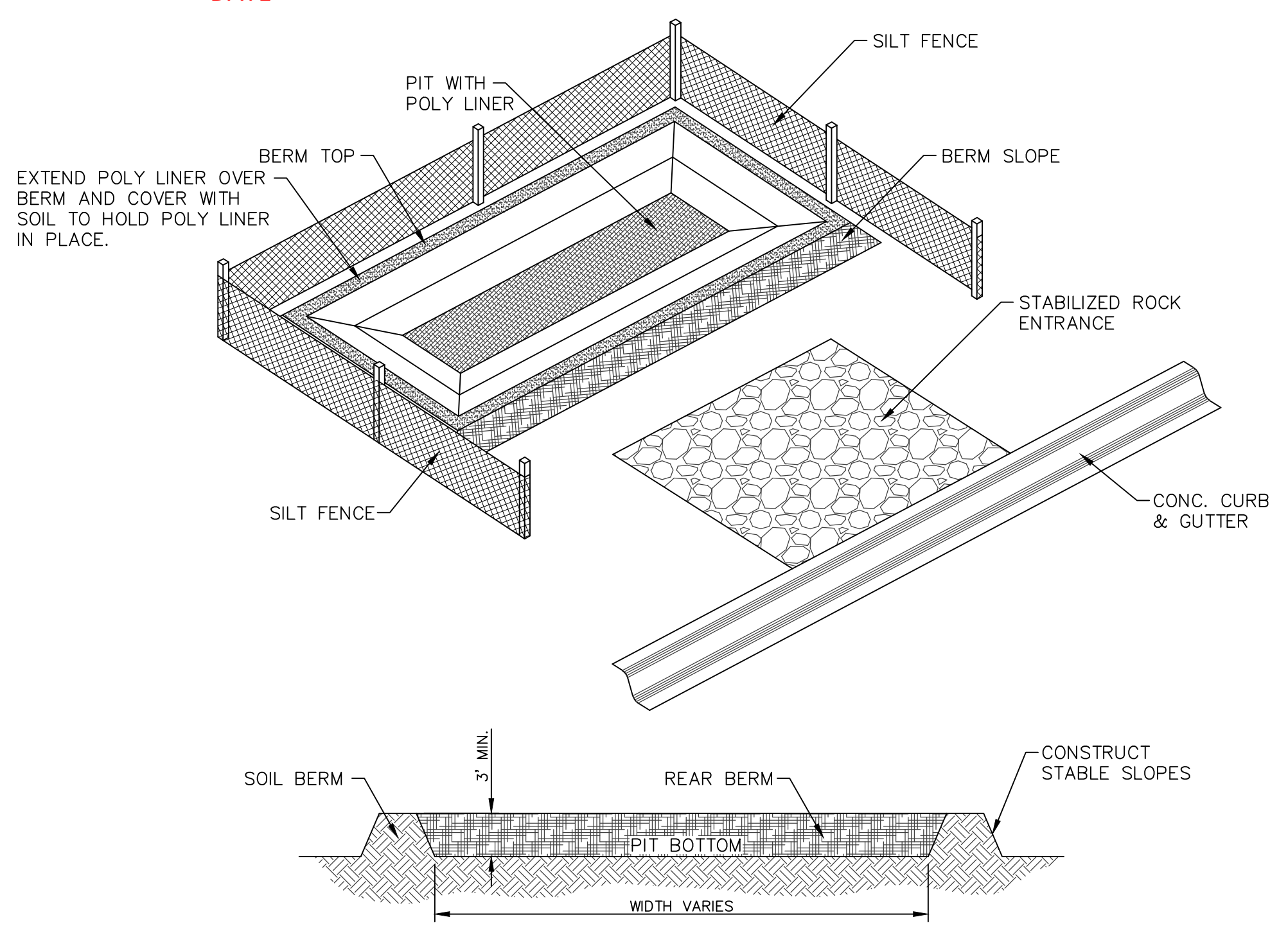


PROFILE

GENERAL NOTES

1. THE LENGTH OF THE TYPE 1 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
2. THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8".
3. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6:1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
4. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
5. THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
6. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

CONSTRUCTION EXIT (TYPE 1)



CONCRETE WASHOUT AREA



Oscar Villalobos
 BY _____ DATE 09/22/2021

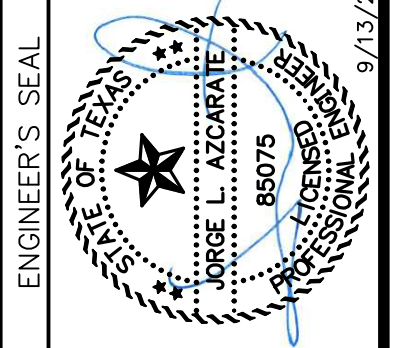
REFERENCES - BENCHMARKS

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 TEXAS REGISTERED ENGINEERING FIRM F-4564



SCALE	N/A
Horizontal:	N/A
Vertical:	N/A
Contour Interval:	N/A
DATE:	SEPTEMBER 2021
DESIGN BY:	G.J.M.
DRAWN BY:	E.Z.
CHKD. BY:	F.Z.
APPVD. BY:	J.L.A.
JOB No.:	2000-228

PROJECT TITLE

TRES SUEÑOS UNIT TWENTY TWO REPLAT "A" SUBDIVISION IMPROVEMENTS

SHEET TITLE

STORM WATER POLLUTION PREVENTION PLAN: DETAILS

SHEET NO.

C14.3

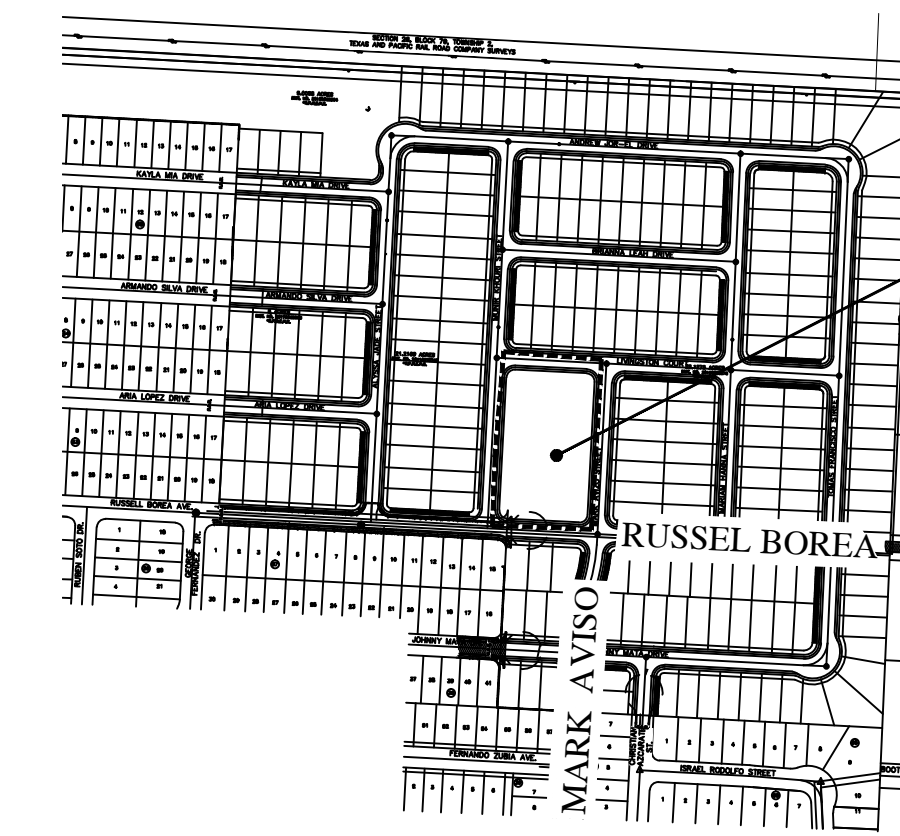
GENERAL NOTES - CITY OF EL PASO PARKS

1. THE CONTRACTOR SHALL VISIT AND FAMILIARIZE HIMSELF WITH THE PROJECT SITE PRIOR TO SUBMITTING HIS BID.
2. CONTRACTOR SHALL BE FAMILIAR WITH PLANS, DETAILS AND SPECIFICATIONS AS THEY PERTAIN TO THE SITE, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNER'S REPRESENTATIVE IF ANY ITEMS CONTAINED WITHIN THE SCOPE OF WORK DEFINED HEREIN, ARE IN CONFLICT WITH THE PROPOSED CONTRACT.
3. EXISTING UTILITY LINES ARE TO BE BLUE STAKED PRIOR TO EXCAVATION, CHECK AND FIELD VERIFY ALL SITE CONDITIONS, UTILITIES AND SERVICES PRIOR TO EXCAVATION. CONSTRUCTION WORK IN CLOSE PROXIMITY TO UNDER- GROUND UTILITIES SHALL BE COORDINATED WITH APPROPRIATE AGENCY.
4. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH OWNER, ALL AFFECTED UTILITY COMPANIES, AND ALL OTHER ENTITIES HAVING JURISDICTION OVER THE PROJECT.
5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES PRIOR TO COMMENCING WITH THE WORK. ANY DISCREPANCY NOTED SHALL BE REPORTED IMMEDIATELY TO THE PROJECT MANAGER. FAILURE OF THE CONTRACTOR TO REPORT ANY FIELD AND PLAN DISCREPANCIES SHALL MAKE THE CONTRACTOR RESPONSIBLE FOR WORK THAT IS PERFORMED.
6. VIBRATORY ROLLERS SHALL NOT BE PERMITTED ON ANY PHASE OF THIS PROJECT, UNLESS APPROVED IN WRITING BY THE CITY ENGINEER.
7. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN STRICT CONFORMANCE WITH ALL CURRENT SAFETY CODES AND STANDARDS, INCLUDING BUT NOT LIMITED TO, OSHA REQUIREMENTS.
8. WARNING! BEFORE EXCAVATING, CONTRACTOR SHALL LOCATE AND PROTECT ALL UNDERGROUND UTILITIES LINES. CONTRACTOR SHALL REPLACE ANY UTILITIES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO OWNER.
9. CONTRACTOR SHALL WATER CONSTRUCTION SITE AREA A MINIMUM OF TWICE A DAY TO DUST CONTROL, ONCE IN THE MORNING AND ONCE IN THE AFTERNOON. THIS SHALL ALSO BE DONE ON WEEKENDS AND HOLIDAYS.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING IMPROVEMENTS IN THE PROJECT AREA AND ITS VICINITY. ANY DAMAGE RESULTING FROM CONTRACTOR WORK SHALL BE RESTORED AT NO COST TO OWNER.
11. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATION DURING CONSTRUCTION ACTIVITY.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ENVIRONMENTAL FINES RESULTING FROM HIS/HER WORK AND HOLD THE OWNER HARMLESS IN SUCH CASES.
13. CONTRACTOR SHALL SECURE THE SITE DURING CONSTRUCTION TO PROTECT THE AREA FROM VANDALISM AND ILLEGAL TRESPASSING. CONTRACTOR SHALL SECURE THE SITE AT HIS/HER OWN COST. CONTRACTOR SHALL SITE PROTECTION MEASURES SHALL BE SUBMITTED TO THE PARKS AND RECREATION DEPT. FOR APPROVAL.
14. ALL EXISTING UTILITIES CURRENTLY IN SERVICE MUST REMAIN IN SERVICE THROUGHOUT CONSTRUCTION EXCEPT AS NOTED IN THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES (INCLUDING SERVICE CONNECTIONS) FROM DAMAGE AS A RESULT OF CONSTRUCTION ACTIVITIES.
15. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO VERIFY LOCATION OF EXISTING UTILITIES & CONTRACTOR SHALL CALL THE RESPECTIVE "I-CALL" NUMBER FOR SUCH UTILITIES.
16. CONTRACTOR SHALL INSURE THE FOLLOWING: ALL ACCESSIBLE ROUTES SHALL NOT EXCEED A RUNNING SLOPE GREATER THEN 1:20(5%). NO WHERE SHALL THE CROSS SLOPE OF AN ACCESSIBLE ROUTE EXCEED 1:50(2%). MAXIMUM SLOPE OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP, OR ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20(5%). MAXIMUM RUNNING SLOPE OF ANY CURB RAMP SHALL NOT EXCEED 1:12(8.33%) SLOPE. ALL ACCESSIBLE PATHS SHALL COMPLY WITH TAS AND ADAAG.

PLANS MUST BE SUBMITTED TO TEXAS DEPT OF LICENSING AND REGULATION FOR COMPLIANCE WITH TEXAS ACCESSIBILITY STANDARDS. #TAB52021022712

GENERAL IRRIGATION NOTES -CITY OF EL PASO

1. ALL MATERIALS LISTED BY BRAND NAME MAY BE SUBSTITUTED BY EQUAL OR BETTER PRODUCTS AS APPROVED BY THE CITY OF EL PASO PARKS AND RECREATION DEPT.
2. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING AND PROPOSED UTILITIES, AND ALL SITE CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE OTHER CONTRACTORS WORKING ON THE SITE. COORDINATE INSTALLATION OF SLEEVING!
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY WATER PRESSURE, WATER SOURCE AND SIZE IN THE FIELD PRIOR TO CONSTRUCTION. SHOULD A DISCREPANCY EXIST BETWEEN DESIGN PRESSURE AND FIELD PRESSURE THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY.
5. IF PRESSURE IS MORE THAN 95 PSI DOWNSTREAM OF METER NOTIFY THE PROJECT MANAGER AND LANDSCAPE ARCHITECT IMMEDIATELY.
6. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.
7. LOCATION OF THE CONTROLLER AND BACKFLOW SHALL BE APPROVED BY CITY OF EL PASO PARKS AND RECREATION DEPT.
8. STAKE OUT ROTOR HEAD AND PIPING LOCATIONS PRIOR TO TRENCHING. AFTER APPROVAL BY CITY OF EL PASO PARKS AND RECREATION DEPT., TRENCHING AND EQUIPMENT INSTALLATION MAY BEGIN.
9. THE CONTRACTOR SHALL NOT IMPEDE DRAINAGE IN ANY WAY. THE CONTRACTOR SHALL ALWAYS MANTAIN POSITIVE DRAINAGE AWAY FROM BUILDINGS, WALLS, ETC.
10. ALL PIPING/WIRING RUNNING BENEATH PAVED SURFACES (DRIVES, WALKS, ETC.) SHALL BE INSTALLED IN SCHEDULE 40 PVC SLEEVES. SLEEVES MUST BE 2 X THE DIAMETER SIZE OF PIPE ENCASED. REMOTE CONTROL WIRING MUST BE RUN IN SEPARATE SLEEVES FROM IRRIGATION PIPE SLEEVES. EXTEND SLEEVE TWENTY-FOUR INCHES (24") BEYOND EDGE OF HARD SURFACES; WRAP ENDS WITH FOUR (4) MILS PLASTIC AND GOOD QUALITY PLASTIC TAPE. GRAY, CLOTH DUCT TAPE IS NOT ACCEPTABLE.
11. DIRECT BURIAL 24V ELECTRIC CONTROL WIRE (#14G) AND COMMON GROUND (#12G) SHALL BE STANDARD COLORS- RED(HOT) AND WHITE(COMMON). INSTALL WIRE WITH SLACK TO ALLOW FOR THERMAL EXPANSION AND CONTRACTION. LABEL ALL WIRE ENDS AT CONTROLLER AND IN VALVE BOX. PROVIDE THREE SPARE REMOTE CONTROL VALVE WIRES FOR EACH CONTROLLER AND EXTEND TO FURTHEST VALVE. WIRING SHALL BE IN SEPARATE TRENCH FIVE FEET (5') FROM PRESSURE MAIN LINE ON NORTH AND WEST SIDE OF MAIN. PROVIDE EXPANSION LOOPS FOR WIRING EVERY 200'. WIRES SHALL NOT BE STRETCHED TIGHT. USE DRI-SPLICE CONNECTORS FACTORY FILLED WITH SILICONE FOR VALVE WIRE. SPLICES ARE NOT ALLOWED BETWEEN CONTROLLER AND VALVES. SPARE REMOTE CONTROL VALVE WIRES MUST BE OTHER THAN STANDARD RED IN COLOR.
12. ALL VALVES SHALL BE TAGGED WITH A WATERPROOF TAG SHOWING VALVE NUMBER. LABEL ALL WIRING AT CONTROLLERS AND PANELS.
13. ALL PIPE CUTS SHALL BE MITERED TO 90 DEGREES TO ASSURE PROPER SOLVENT WELD. ALL BURRS SHALL BE REMOVED PRIOR TO GLUING AND MUST HAVE A FILED BEVELED EDGE A MINIMUM OF ONE FOURTH (1/4) THE WIDTH OF PIPE WALL. USE "3-STEP" GLUING PROCESS. PIPE MUST BE CLEAN AND PRIMER APPLIED AS RECOMMENDED BY MANUFACTURER WHEN GLUING PROCESS IS UNDERTAKEN. PRIMER SHOULD BE MOIST AS GLUE IS APPLIED AND PVC PIPING IS ASSEMBLED. USE IPS WELD-ON PURPLE PRIMER P68 OR P70. USE IPS WELD-ON GRAY GLUE #711 HEAVY DUTY. PIPE OFF ALL EXCESS CEMENT AND LET SET PER MANUFACTURER'S RECOMMENDATIONS. INITIAL SET TIMES SHALL BE MINIMUM OF 5 MIN. FOR 1/2 TO 1-1/4" PIPE; 8 MIN. FOR 1-1/2" PIPE TO 2" PIPE; 2 HOURS FOR 2-1/2" TO 6" PIPE. CURE TIMES ARE 20 MIN FOR 1/2" TO 1-1/4" PIPE; 30 MIN. FOR 1-1/2" PIPE; 4 HOURS FOR 2-1/2" PIPE. WHEN HUMIDITY EXCEEDS 60% INCREASE CURE TIME BY 50%. ONCE WELD IS SET, PIPE SHALL NOT BE MOVED FOR ANY REASON UNTIL SET TIMES HAVE BEEN ACHIEVED. WATER SHALL NOT BE TURNED ON UNTIL ALL CURE TIMES HAVE BEEN ACHIEVED.
14. A CITY OF EL PASO PARKS AND RECREATION DEPT. REPRESENTATIVE MUST BE PRESENT DURING ALL FLUSHING, TESTING AND ADJUSTING. THE CONTRACTOR MUST PROVIDE 24 HRS NOTICE TO THE CITY OF EL PASO PARKS AND RECREATION DEPT. PRIOR TO CONDUCTING THE TESTS. FLUSHING AND TESTING SHALL BE PERFORMED IN ACCORDANCE WITH PARKS AND RECREATION DEPARTMENT DESIGN AND CONSTRUCTION STANDARDS.
15. THE FINISH GRADE OF ALL TRENCHED AREAS SHALL BE SMOOTH, EVEN AND CONSISTENT, FREE OF ANY HUMPS, DEPRESSIONS OR OTHER GRADING IRREGULARITIES. OVERFILL TRENCHES AND COMPACT SO NOT TO CRUSH THE PIPE. PRIOR TO SODDING INSPECT TRENCHES FOR SETTLING AND BACKFILL AND REGRADE IF NECESSARY. DO NOT LAY SOD UNTIL TRENCHES ARE ACCEPTABLE.
16. THE CONTRACTOR SHALL FINE TUNE AND ADJUST THE IRRIGATION SYSTEM SO THAT NO WATER WILL RUN ONTO THE STREET OR WALKS
17. THE CONTRACTOR SHALL PROVIDE A WATER AUDIT CONDUCTED IN THE PRESENCE OF THE CITY OF EL PASO PARKS AND RECREATION DEPT. REPRESENTATIVE.
18. THE CONTRACTOR SHALL MAINTAIN ALL WORK UNTIL ALL WORK IS COMPLETE AND ACCEPTED BY THE CITY OF EL PASO PARKS AND RECREATION DEPT.
19. WATERING TIME: TO SET TURF STATIONS SEE TURF IRRIGATION SYSTEM DESIGN CRITERIA. SET PER LOCAL WATERING CODES.
20. WARRANTY PERIOD IS ONE YEAR FROM DATE OF ACCEPTANCE.



SITE MAP

PROJECT AREA

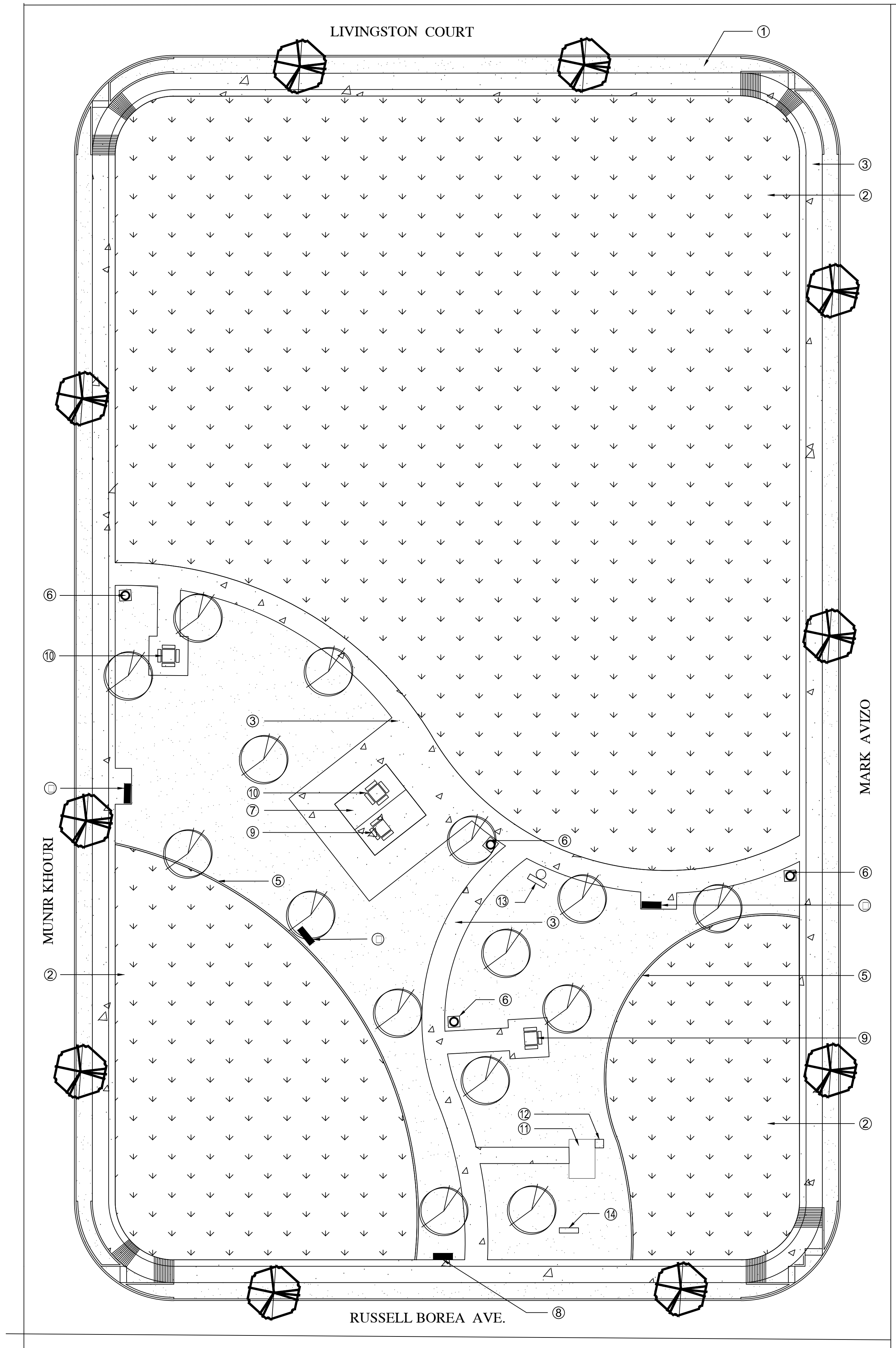
NOT TO SCALE

SHEET INDEX	
L1	SITE MAP, SHEET INDEX, NOTES
L2	PLANTING AND MATERIALS PLAN
L3	IRRIGATION
L4	LAYOUT
L5	CONSTRUCTION DETAILS
L6	CONSTRUCTION DETAILS
L7	CONSTRUCTION DETAILS

PARKS DEPT. NOTES FOR PLANTING:	
1)	IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PREVENT PLANTS FROM FALLING OR BEING BLOWN OVER AND TO STRAIGHTEN OR REPLANT ALL PLANTS WHICH ARE DAMAGED DUE TO WIND. PLANTS BLOWN OVER BY HIGH WINDS SHALL NOT BE A CAUSE FOR ADDITIONAL EXPENSE TO THE OWNER, BUT SHALL BE THE FINANCIAL RESPONSIBILITY OF CONTRACTOR.
2)	TOPSOIL MATERIAL FOR PLANTING SHALL BE FREE FROM HARD CLODS, STIFF CLAY, HARD PAN, STONES LARGER THAN 1" IN DIAMETER, NOXIOUS WEEDS AND PLANTS, SOD, PARTIALLY DISINTEGRATED DEBRIS, INSECTS OR ANY OTHER UNDESIRABLE MATERIAL. PLANTS OR SEEDS THAT WOULD BE TOXIC OR HARMFUL TO GROWTH.
3)	CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF PLANT MATERIAL QUANTITIES.
4)	IN THE EVENT OF VARIATION BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND THE PLANS, THE PLANS SHALL CONTROL. IMPROPER PLANT COUNT MADE BY THE LANDSCAPE CONTRACTOR SHALL BE NO CAUSE FOR ADDITIONAL COSTS TO THE OWNER.
5)	THE CONTRACTOR SHALL MEET BOTH THE CONTAINER SIZE AND GALIFER SIZE, AS WELL AS HEIGHT AND SPREAD SPECIFICATIONS SPECIFIED.
6)	EXGAVATE TWO TIMES GREATER THAN THE ROOT BALL-DIAMETER OF THE SHRUB, TWO TIMES GREATER THAN THE ROOT BALL FOR TREES. SCARIFY BOTTOM OF PLANTING PIT BEFORE PLACING PLANT. PLACEMENT OF PLANT SHALL BE PERPENDICULAR TO GROUND.
7)	CONTRACTOR WILL NOT PLANT MATERIAL SHOWN ON PLANS WHEN IT IS EVIDENT THAT FIELD CONDITIONS HAVE CHANGES SINCE PLANS WERE DRAWN. ANY CHANGES ARE TO BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE DESIGNER BEFORE ANY PLANTING IS DONE IN THE AREA.
8)	PLANT SUBSTITUTIONS WILL BE PERMITTED, REQUEST SUBSTITUTION IN WRITING GIVING REASONS FOR SUCH SUBSTITUTIONS.
9)	TURF QUANTITY TAKE-OFF ARE THE RESPONSIBILITY OF THE CONTRACTOR.
10)	TREAT ALL PLANTING AREAS WITH AN APPLICATION OF SUREFLAN. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR APPLICATION.
11)	REMOVE ALL WIRE, STRINGS, WIRE BASKETS, BURLAP, CONTAINERS, ETC., FROM THE ROOTBALL OF PLANTS BEFORE BACKFILLING THE PLANTING HOLE.
12)	SEEDED AREAS SHOULD BE MAINTAINED UNTIL A FULL GROWTH OF WILD GRASS OR SEEDED MATERIAL IS ACHIEVED.
13)	WARRANTY FOR THE PLANTING MATERIAL SHALL BE ONE YEAR FROM THE DATE OF ACCEPTANCE. (TREES, SHRUBS AND GROUNDCOVER).
14)	ANY UNSUITABLE SOIL CONDITIONS MUST BE REMEDIED TO ELIMINATE HARD SOILS, STONY SOILS, HIGH CALICHE SOILS, CLAY SOILS, COARSE SANDS AND CONTAMINATED SOILS TO A MINIMUM DEPTH OF 12" AS REQUIRED FOR PROPOER PLANTING AS PER "PARKS DESIGN AND CONSTRUCTION STANDARDS".

THIS PROJECT IS SUBJECT TO ALL SUBVISION STANDARDS OF THE EL PASO MUNICIPAL CODE PRIOR TO JUNE 3, 2008.

BY	
REVISIONS	
DATE	
LISA MCNEELIS LANDSCAPE ARCHITECT 688 STONE CANYON DRIVE LAS CRUCES, NEW MEXICO 89011 (575) 621-5052	
SCALE: Horizontal: N/A Vertical: N/A Contour Interval: N/A DATE: LM DESIGN BY: LM DRAWN BY: LM CHKD. BY: LM APPVD. BY: LM JOB No.:	
PROJECT TITLE SUENOS PARK 14485 RUSSELL BOREA AVE. LOT 1, BLOCK 12 TRES SUENOS UNIT 22 SUBDIVISION EL PASO, TEXAS 79938 AREA: 76865.6 SF- 1.76 ACRES	
SHEET TITLE	
<h1>L1</h1>	
INDEX AND NOTES	
SHEET 1 OF 7	



PLAN VIEW - PLANTING AND MATERIALS

SCALE: 1" = 20' - 0"

PARKS DEPT. NOTES FOR PLANTING:

- 1). IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PREVENT PLANTS FROM FALLING OR BEING BLOWN OVER AND TO STRAIGHTEN OR REPLANT ALL PLANTS WHICH ARE DAMAGED DUE TO WIND. PLANTS BLOWN OVER BY HIGH WINDS SHALL NOT BE A CAUSE FOR ADDITIONAL EXPENSE TO THE OWNER, BUT SHALL BE THE FINANCIAL RESPONSIBILITY OF CONTRACTOR.
- 2). TOPSOIL MATERIAL FOR PLANTING SHALL BE FREE FROM HARD CLODS, STIFF CLAY, HARD PAN, STONES LARGER THAN 1" IN DIAMETER, NOXIOUS WEEDS AND PLANTS, SOD, PARTIALLY DISINTEGRATED DEBRIS, INSECTS OR ANY OTHER UNDESIRABLE MATERIAL. PLANTS OR SEEDS THAT WOULD BE TOXIC OR HARMFUL TO GROWTH.
- 3). CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF PLANT MATERIAL QUANTITIES.
- 4). IN THE EVENT OF VARIATION BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND THE PLANS, THE PLANS SHALL CONTROL. IMPROPER PLANT COUNT MADE BY THE LANDSCAPE CONTRACTOR SHALL BE NO CAUSE FOR ADDITIONAL COSTS TO THE OWNER.
- 5). THE CONTRACTOR SHALL MEET BOTH THE CONTAINER SIZE AND CALIPER SIZE, AS WELL AS HEIGHT AND SPREAD SPECIFICATIONS SPECIFIED.
- 6). EXCAVATE TWO TIMES GREATER THAN THE ROOT BALL DIAMETER OF THE SHRUB, TWO TIMES GREATER THAN THE ROOT BALL FOR TREES. SCARIFY BOTTOM OF PLANTING PIT BEFORE PLACING PLANT. PLACEMENT OF PLANT SHALL BE PERPENDICULAR TO GROUND.
- 7). CONTRACTOR WILL NOT PLANT MATERIAL SHOWN ON PLANS WHEN IT IS EVIDENT THAT FIELD CONDITIONS HAVE CHANGED SINCE PLANS WERE DRAWN. ANY CHANGES ARE TO BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE DESIGNER BEFORE ANY PLANTING IS DONE IN THE AREA.
- 8). PLANT SUBSTITUTIONS WILL BE PERMITTED, REQUEST SUBSTITUTION IN WRITING GIVING REASONS FOR SUCH SUBSTITUTIONS.
- 9). TURF QUANTITY TAKE-OFF ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 10). TREAT ALL PLANTING AREAS WITH AN APPLICATION OF SURFLAN. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR APPLICATION.
- 11). REMOVE ALL WIRE, STRING, WIRE BASKETS, BURLAP, CONTAINERS, ETC., FROM THE ROOTBALL OF PLANTS BEFORE BACKFILLING THE PLANTING HOLE.
- 12). SEEDED AREAS SHOULD BE MAINTAINED UNTIL A FULL GROWTH OF WILD GRASS OR SEEDED MATERIAL IS ACHIEVED.
- 13). WARRANTY FOR THE PLANTING MATERIAL SHALL BE ONE YEAR FROM THE DATE OF ACCEPTANCE. (TREES, SHRUBS AND GROUNDER).
- 14). ANY UNSUITABLE SOIL CONDITIONS MUST BE REMEDIATED TO ELIMINATE HARD SOILS, STONY SOILS, HIGH CALICHE SOILS, CLAY SOILS, COARSE SANDS AND CONTAMINATED SOILS TO A MINIMUM DEPTH OF 12" AS REQUIRED FOR PROPER PLANTING AS PER "PARKS DESIGN AND CONSTRUCTION STANDARDS".

CONTRACTOR MUST VERIFY QUANTITIES - PLAN TAKES PRECEDENCE

PARK MATERIAL LEGEND AND DETAIL KEY:

1. FRANKLIN RED GRAVEL CRUSHER FINES 3" DEPTH 2" BELOW ALL CONCRETE SURFACES USE WEED BARRIER. PROJECT TOTAL [1971 SF] SEE DETAIL (A) ON SHEET L5.
2. SANTA ANA BERMUDA GRASS PROJECT TOTAL [55444 SF] TOP OF SOD 2" ON TOP OF SIDEWALKS AND CONCRETE HEADER CURB. SEE DETAIL (C) ON SHEET L5.
3. PARK CONCRETE WALKWAY, PATIO, BENCHTABLE PADS, FLOOR. PROJECT TOTAL [2287 SF] SEE DETAIL (D) ON SHEET L5.
4. BLANK
5. 6"x12" CONCRETE HEADER CURB. PROJECT TOTAL [242' LF] SEE DETAIL (B) ON SHEET L5.
6. DUNOR 286-92-F70 HINSED TRASH RECEPTACLE WITH LINER. BLUE WITH BLACK LID. SURFACE MOUNT ON SLAB. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROJECT TOTAL - [4] SEE DETAIL (E) ON SHEET L5.
7. CLASSIC RECREATION 20 X 20 ORLANDO SHADE STRUCTURE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
8. ANOVA ULTRA SERIES 6' BENCH SURFACE MOUNT. TOTAL [2] ITEM #F202. BLUE W/ BLACK METAL PLASTISOLE FINISH. INSTALL PER MANUF. RECOMMENDATIONS. FOR ADA BENCH SEE DETAIL (F) ON SHEET L5.
9. ANOVA ULTRA SERIES ADA TABLE 3 SEATS. ITEM # F206 SURFACE MOUNT. BLUE WITH BLACK FRAME. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL (G) ON L5. PROJECT TOTAL - [1]
10. ANOVA ULTRA SERIES TABLE 4 SEATS. ITEM # F205 SURFACE MOUNT. BLUE WITH BLACK FRAME. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL (H) ON L5. PROJECT TOTAL - [1]
11. PUMP HOUSE
12. ELEC METER
13. PET WASTE STATION. PROJECT TOTAL - [1] SEE DETAIL (I) ON SHEET L5.
14. PARK SIGN. PROJECT TOTAL - [1] SEE DETAIL (J) ON SHEET L5.

SEE PLANTING DETAILS ON L5

QUANTITIES ARE PROJECT TOTALS - VERIFY! PLANS TAKE PRECEDENCE

SYN	KEY	COMMON NAME	BOTANICAL NAME	CONT.	SIZE	QUANT.	REMARKS
LET	⊗	LACEBARK ELM	ULMUS PARVIFOLIA	15 GAL	1' GAL-8HT-3' SPREAD	10	SINGLE TRUNK
CPT	○	CHINESE PISTACHE	PISTACIA CHINENSIS	15 GAL	1' GAL-8HT-3' SPREAD	10	SINGLE TRUNK

SODDING NOTES - CITY OF EL PASO PARKS

SUBMIT THE FOLLOWING:

1. SOD CERTIFICATION FOR GRASS SPECIES AND NAME AND LOCATION OF SOD SOURCE. SODDING SCHEDULE, INCLUDING DATES AND TYPE OF SOD TO BE PERFORMED. PRIOR TO ORDERING, NAME OF SUPPLIER OF SOIL AMENDMENTS MATERIALS.

QUALITY ASSURANCE

2. MINIMUM AGE 18 MONTHS WITH ROOT DEVELOPMENT THAT WILL SUPPORT ITS OWN WEIGHT WITHOUT TEARING, WHEN SUSPENDED VERTICALLY BY HOLDING THE UPPER TWO CORNERS. DELIVERY, STORAGE AND HANDLING.
3. TIME DELIVERY SO THAT SOD WILL BE PLACED WITHIN 24 HOURS OF DELIVERY AT SITE. PROTECT AGAINST DRYING AND BREAKING OF ROLLED STRIPS.
4. DELIVER PACKAGED MATERIALS IN CONTAINERS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER. PROTECT MATERIALS FROM DETERIORATION DURING DELIVERY AND WHILE STORED ON SITE.

SITE CONDITIONS

5. PROCEED WITH AND COMPLETE LANDSCAPE WORK AS RAPIDLY AS PORTIONS OF SITE BECOME AVAILABLE, WORKING WITHIN SEASONAL LIMITATIONS FOR EACH KIND OF LANDSCAPE WORK REQUIRED.
6. WHEN CONDITIONS DETRIMENTAL TO PLANT GROWTH ARE ENCOUNTERED, SUCH AS RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS, OR OBSTRUCTIONS CONSULT THE LANDSCAPE DESIGNER AND CITY OF EL PASO PARKS AND RECREATION BEFORE PLANTING.
7. PLANT OR INSTALL MATERIALS DURING NORMAL PLANTING SEASONS FOR EACH TYPE OF LANDSCAPE WORK REQUIRED. CORRELATE PLANTING WITH SPECIFIED MAINTENANCE PERIODS TO PROVIDE MAINTENANCE FROM DATE OF FINAL ACCEPTANCE.

SOIL AMENDMENTS

8. PROVIDE SOIL ANALYSIS BEFORE ADDITION OF SOIL AMENDMENTS & ANALYSES OF SOIL AMENDMENTS. ORGANIC AMENDMENTS SHALL CONSIST OF WELL-AGED ORGANIC COMPOST OR APPROVED EQUAL.

FERTILIZER

9. SLOW-RELEASE STARTER FERTILIZER ANALYSIS AS RECOMMENDED BY EXTENSION AGENT BY WEIGHT AT A RATE OF 1 LB OF ACTUAL NITROGEN PER 1,000 SQUARE FEET BY WEIGHT.

GRASS MATERIALS

10. PROVIDE STRONGLY ROOTED SOD, NOT LESS THAN 18 MONTHS OLD AND FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES AND MACHINE CUT TO PAD THICKNESS OF 3/4 INCH PLUS OR MINUS 1/4 INCH, EXCLUDING TOP GROWTH AND THATCH. PROVIDE SOD CAPABLE OF GROWTH AND DEVELOPMENT WHEN PLANTED. CUT SOD PIECES A MINIMUM OF 18 INCHES WIDE.

PREPARATION

11. PRIOR TO START OF SOIL PREPARATION ALL FINISH GRADES SHALL BE ESTABLISHED AND APPROVED AS MEETING THE REQUIREMENTS OF THE GRADING PLAN. APPLY A UNIFORM ONE-INCH LAYER (3 CY/1000 SQUARE FEET) OF ORGANIC SOIL AMENDMENT, AFTER APPLICATION OF ORGANIC AMENDMENT AND STARTER FERTILIZER ALL AREAS TO BE SODDED SHALL BE THOROUGHLY ROTOTILLED TO A MINIMUM DEPTH OF 12 INCHES. AFTER ROTOTILLING IS COMPLETE AT CROSS DIRECTIONS, DRAG, AND LASER LEVEL TO AN EVEN GRADE, THEN ROLL FOR FIRMNESS. RAKE TILLED AREA AND REMOVE STONES OVER 1 INCH IN ANY DIMENSION, STICKS, ROOTS, RUBBISH AND OTHER EXTRANEIOUS MATTER. ROLL ENTIRE AREA WITH WEIGHTED HAND ROLLER.

SODDING OPERATIONS

12. LAY SOD WITHIN 24 HOURS OF DELIVERY AT SITE. DO NOT PLANT DORMANT SOD OR ON FROZEN GROUND.
13. IF SOIL IS DRY, MOISTEN AREAS BEFORE SODDING. WATER THOROUGHLY AND ALLOW SURFACE MOISTURE TO DRY. DO NOT CREATE A MUDDY SOIL CONDITION.
14. REMOVE FIBER MESH USED BY SOD FARM TO TRANSPORT SOD ROLLS AS SOD IS BEING INSTALLED.
15. LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. NO JOINT SHALL BE MORE THAN 1/8" LAY SOD OVER MOISTENED SOIL, LIGHTLY RAKING THE SOIL AHEAD OF EACH SOD STRIP. BUTT ENDS AND SIDES OF SOD STRIPS; DO NOT OVERLAP. STAGGER STRIPS TO OFF-SET JOINTS IN ADJACENT COURSES. LAY SOD PARALLEL TO CONTOURS OF SLOPE. WORK FROM BOARDS TO AVOID DAMAGE TO SUBSOIL OR SOD. TAMP FIRMLY AND EVENLY BY HAND TO ENSURE CONTACT WITH SUBSOIL. WORK SIFTED TOPSOIL OR SAND INTO MINOR CRACKS BETWEEN PIECES OF SOD.
16. WATER SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING.

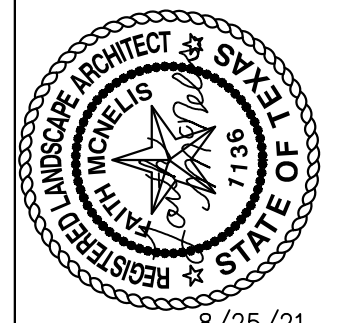
MAINTENANCE

17. BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING.
18. MAINTAIN LAWNS FOR NOT LESS THAN A PERIOD OF AT LEAST 60 DAYS AFTER COMPLETION AND ACCEPTANCE OF SOD. INSPECTION TO DETERMINE ACCEPTANCE OF SODDED LAWNS WILL BE PROVIDED BY PARKS STAFF AND SITES SOUTHWEST REPRESENTATIVE UPON CONTRACTOR'S REQUEST. PROVIDE NOTIFICATION AT LEAST 10 WORKING DAYS BEFORE REQUESTED INSPECTION DATE. AND LONGER AS REQUIRED TO ESTABLISH AN ACCEPTABLE LAWN.
19. SODDED LAWNS TO BE MAINTAINED NOT LESS THAN 60 DAYS AFTER COMPLETION AND ACCEPTANCE OF SODDING OPERATIONS.
20. MAINTENANCE TO INCLUDE:
WATER SOD THOROUGH EVERY 2 TO 3 DAYS MIN. AS REQUIRED TO ESTABLISH PROPER ROOTING. REPAIR, RENOVATE AND RESOD AREAS THAT HAVE WASHED OUT OR ERODED.
REPLACE DEAD OR UNDESIRABLE SOD SECTIONS WITH NEW SOD.
MOW LAWN AREAS WHEN THE GRASS IS OVER 2 INCHES HIGH FOR FIRST CUTTING.
FERTILIZE LAWN WITH TOP DRESSING FERTILIZER AT 1 LB. PER 1,000 SQ.FT. OF NITROGEN, WATER THOROUGHLY.
21. ADDITIONAL LAWN MAINTENANCE CONSISTS OF WEEDING, TRIMMING AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.

CLEANUP AND ACCEPTANCE

22. DURING THE WORK, KEEP PAVEMENTS CLEAN AND WORK AREA IN AN ORDERLY CONDITION.
23. PROTECT WORK AND MATERIALS FROM DAMAGE DUE TO SODDING OPERATIONS, OPERATIONS BY OTHER CONTRACTORS AND TRADES AND TRESPASSERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR OR REPLACE DAMAGED WORK AS DIRECTED.
- INSPECTION AND ACCEPTANCE
24. WHEN INSPECTED WORK DOES NOT COMPLY WITH REQUIREMENTS, REPLACE REJECTED WORK AND CONTINUE SPECIFIED MAINTENANCE UNTIL REINSPECTED BY THE LANDSCAPE DESIGNER AND CITY OF EL PASO PARKS AND RECREATION AND FOUND TO BE ACCEPTABLE. REMOVE REJECTED SOD AND MATERIALS PROMPTLY FROM PROJECT SITE.

LISA MCNEELIS
LANDSCAPE ARCHITECT
1900 FOXBORO
LAS CRUCES, NEW MEXICO 88007
(515) 621-5052

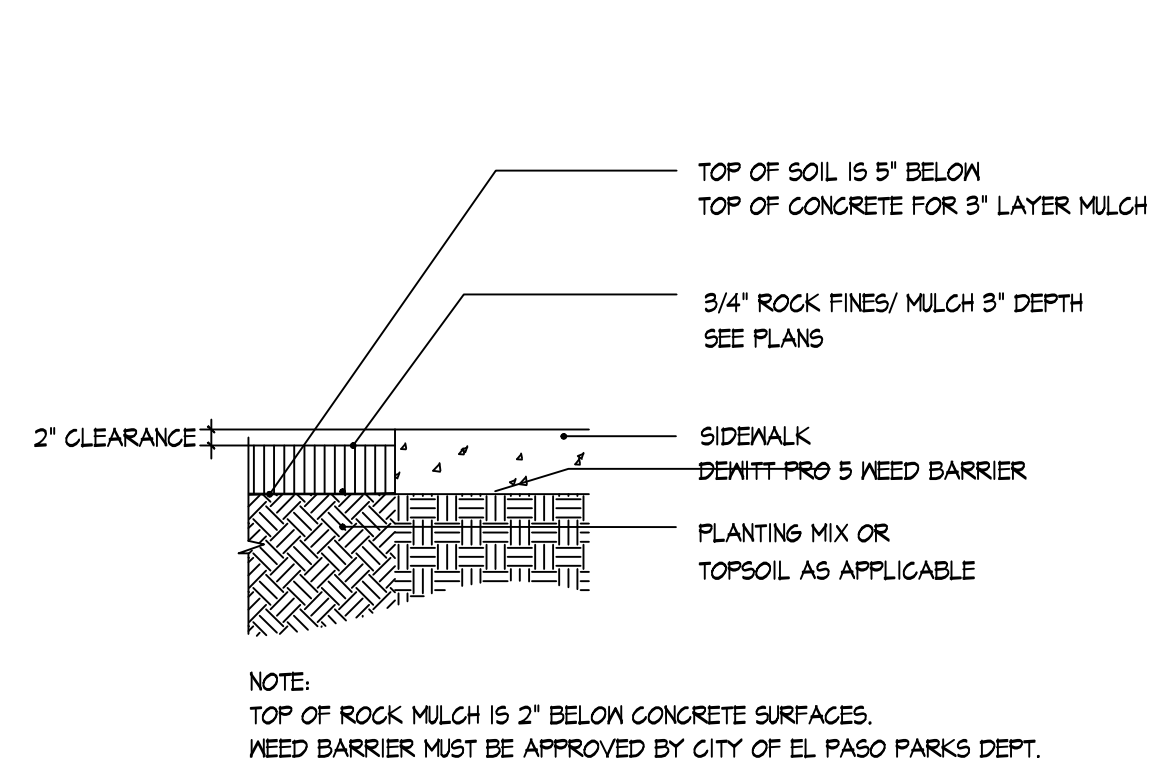


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Vertical: Interval: N/A
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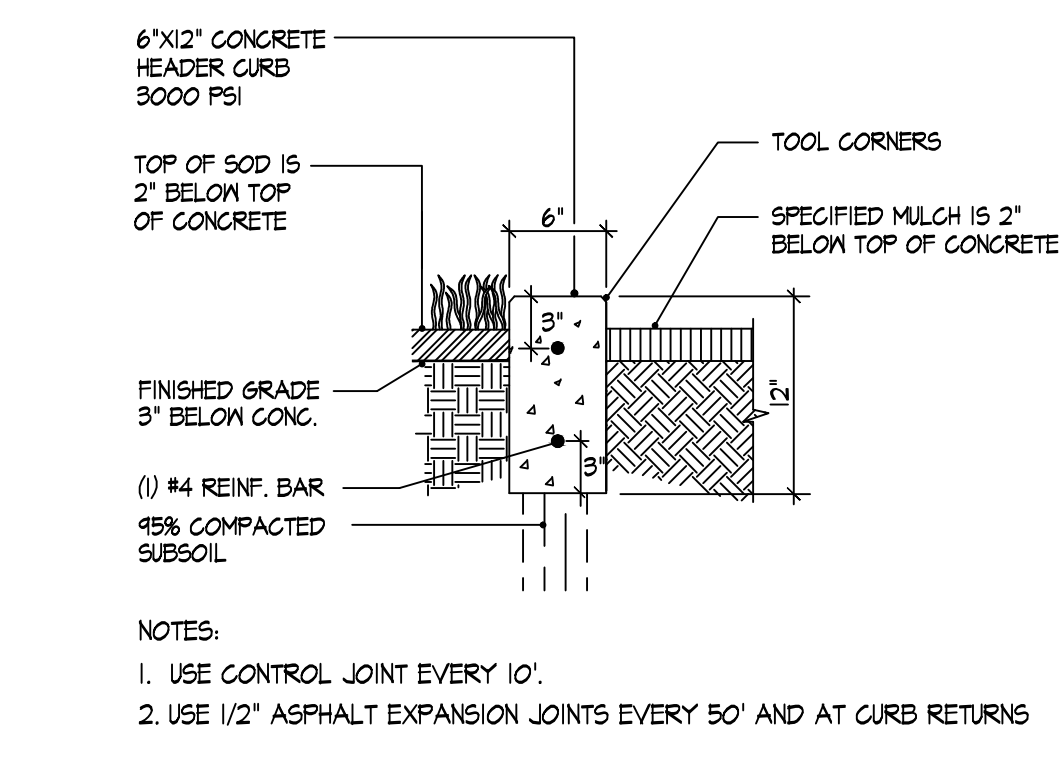
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LOT 11 BLOCK 12
TRES SUENOS UNIT 22 SUBDIVISION
EL PASO, TEXAS 79938
AREA: 76865.6 SF - 1.76 ACRES



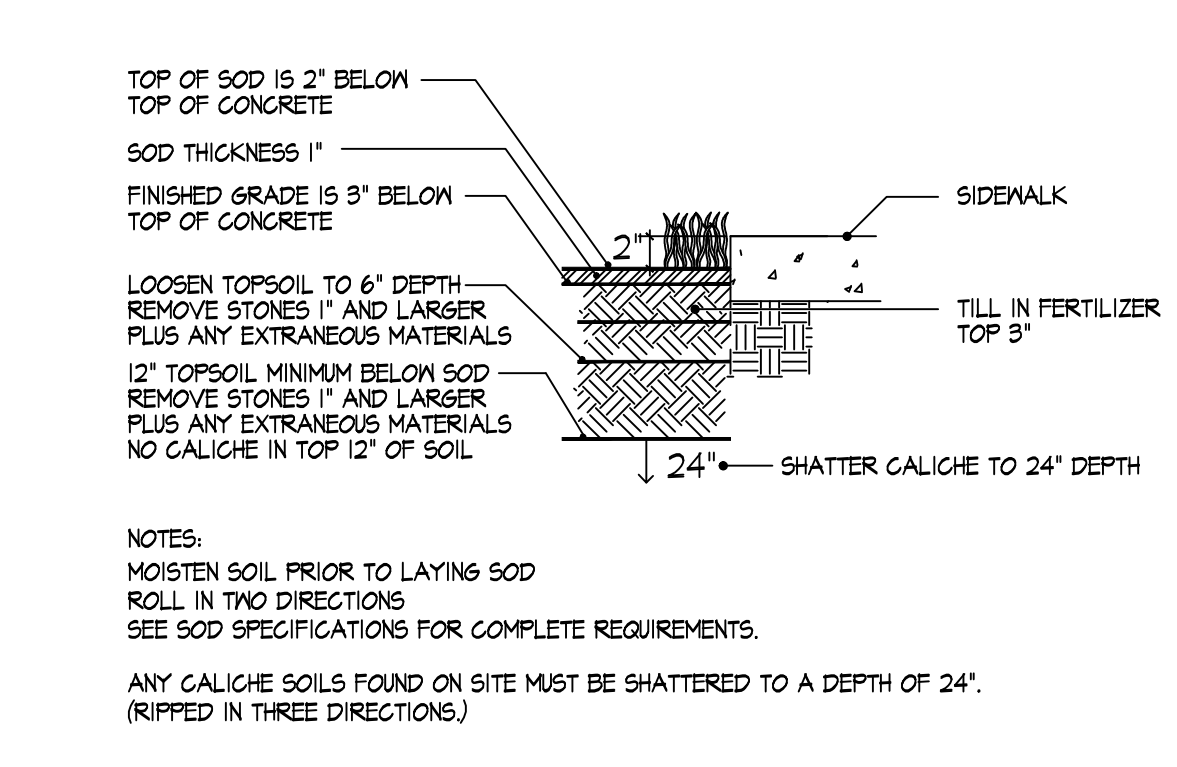
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L2
PLANTING AND MATERIALS
SHEET 2 OF 7



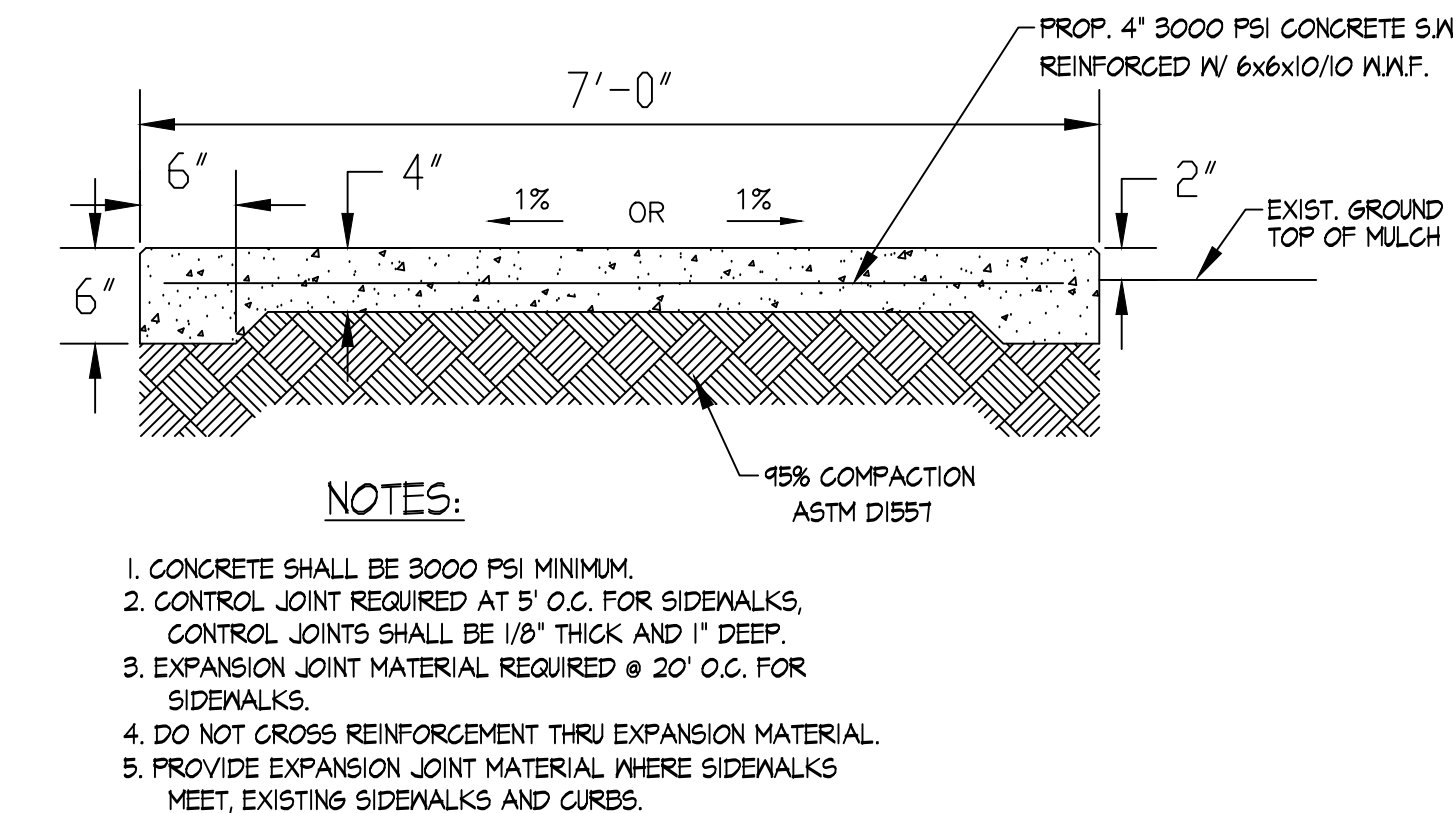
A ROCK MULCH DEPTH AT CONCRETE - SECTION
NOT TO SCALE



B CONCRETE HEADER CURB DETAIL - SECTION
NOT TO SCALE

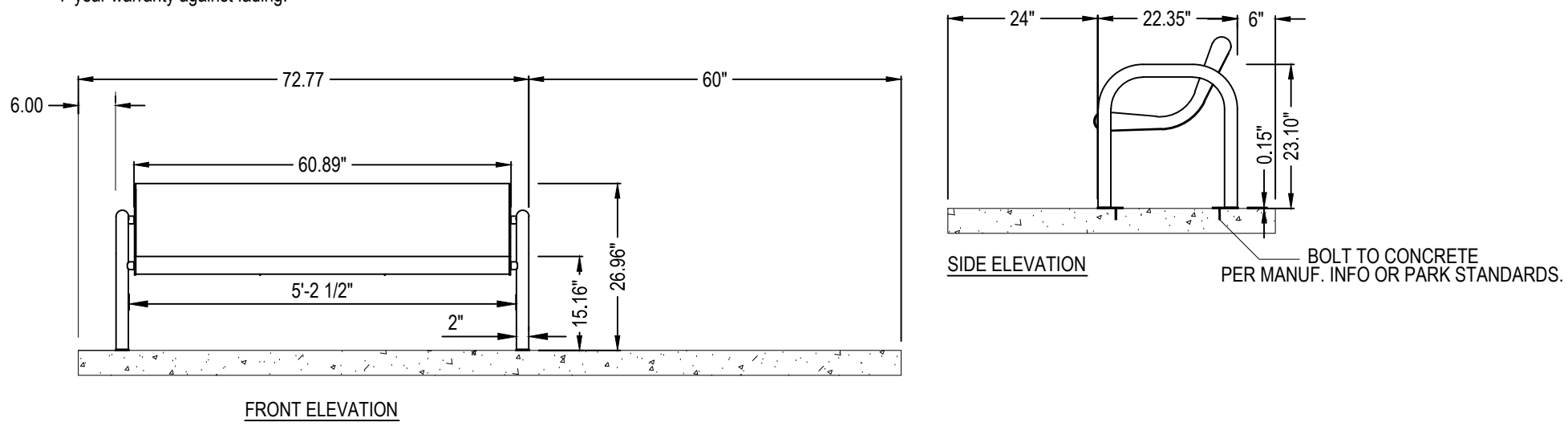


C TYPICAL TURF AT CONCRETE DETAIL - SECTION
NOT TO SCALE



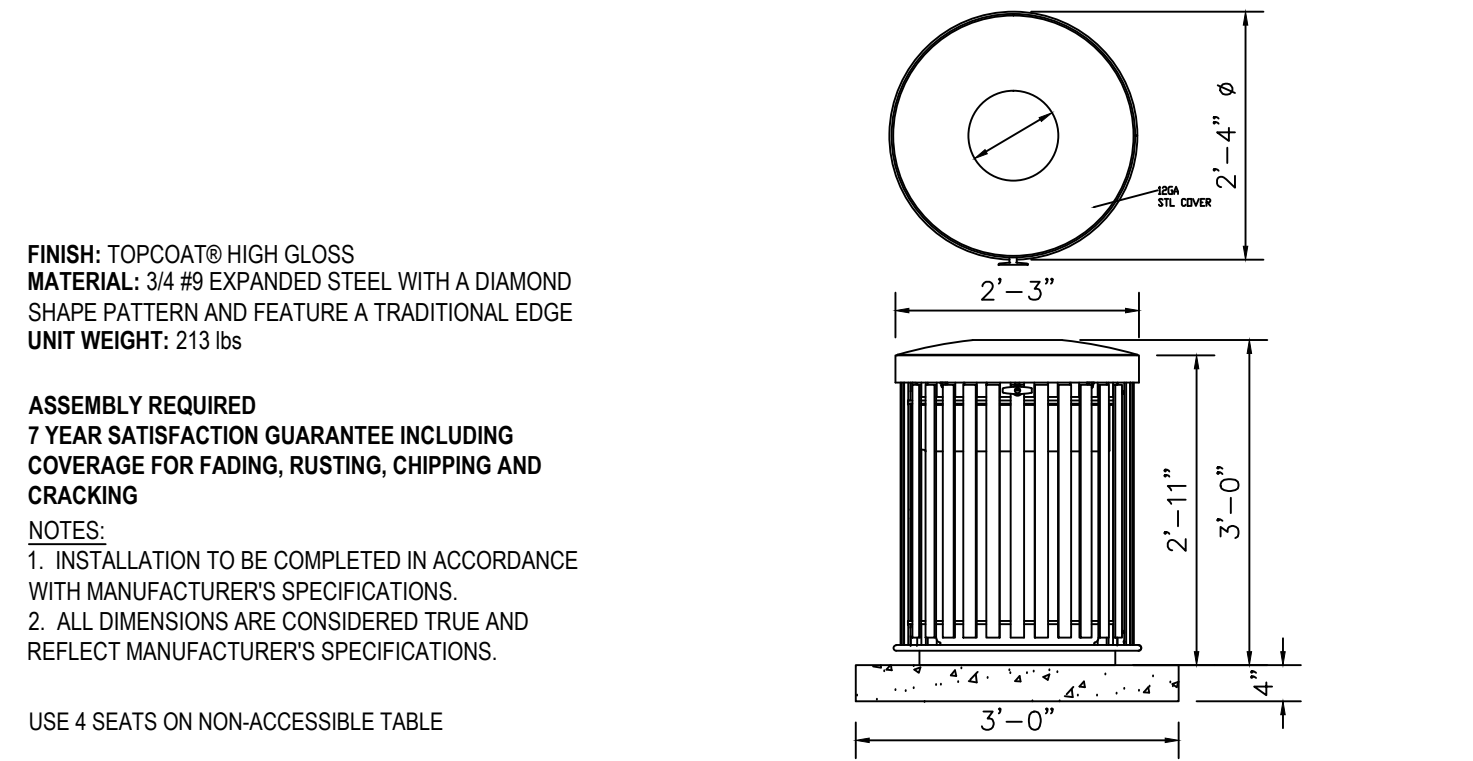
D TYPICAL TURF AT CONCRETE DETAIL - SECTION
NOT TO SCALE

Colors and/or Options: Please see manufacturer website at www.anovafurnishings.com.
Finish: Seat: Protected by patented Fusion Advantage™, a heat fused plastisol coating that creates an impervious rustproof barrier and resists UV deterioration, mildew, staining and fading. Legs/Under Supports: Fade-resistant, powder coated aluminum features a state-of-the-art primer proven to prevent rusting.
Material: 3/4\"/>

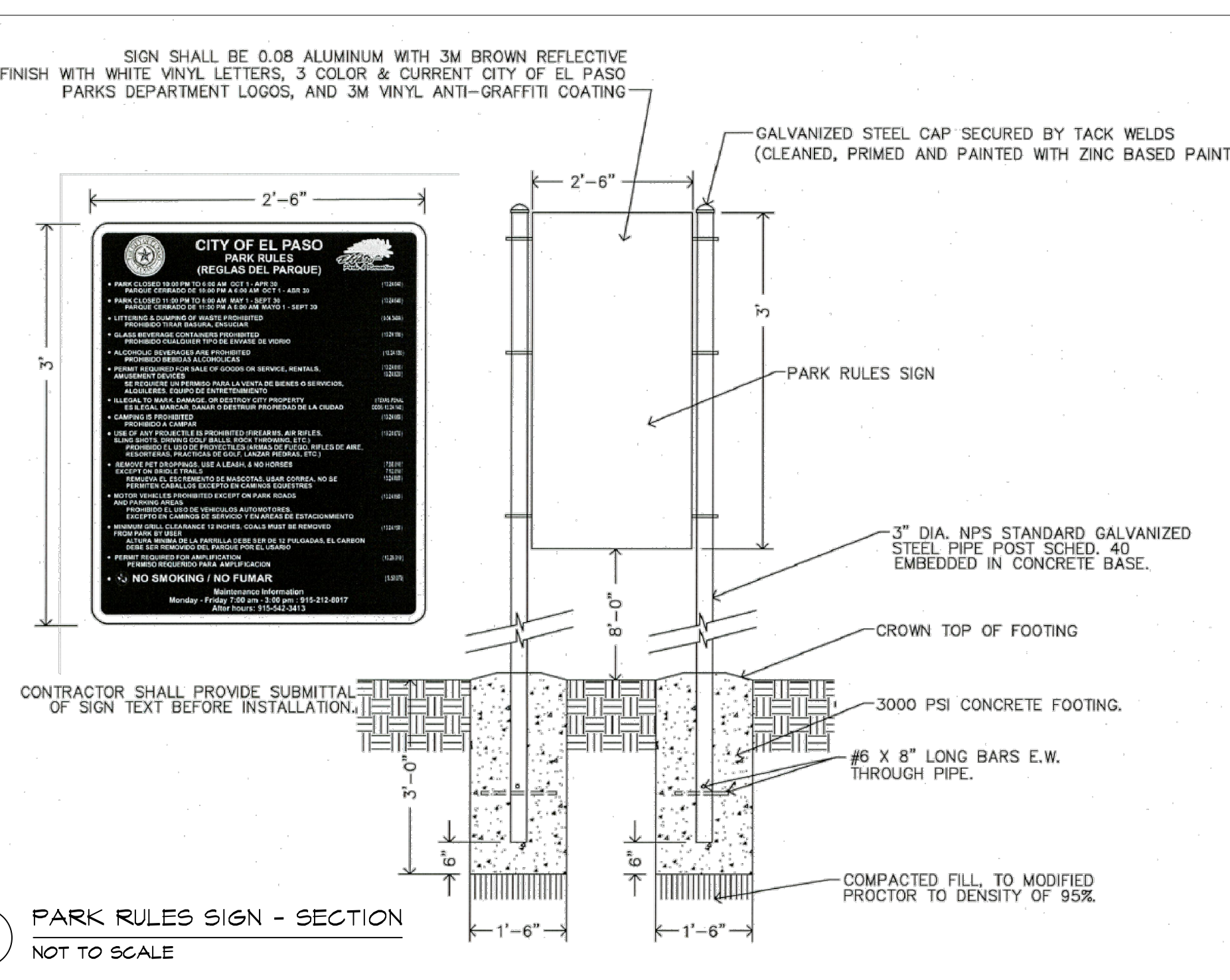


E BENCH WITH ADA ACCESSIBILITY - PLAN VIEW
NOT TO SCALE

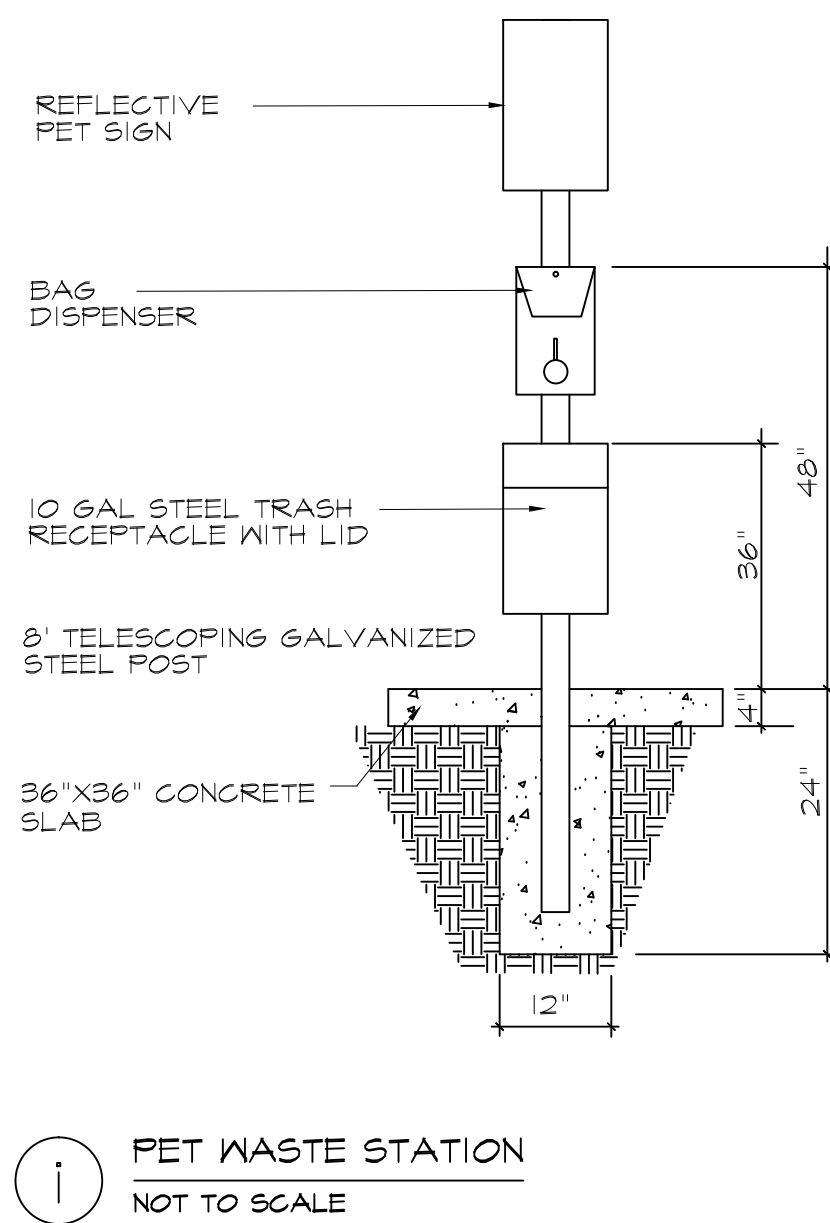
F TABLE WITH ADA ACCESSIBILITY - PLAN VIEW
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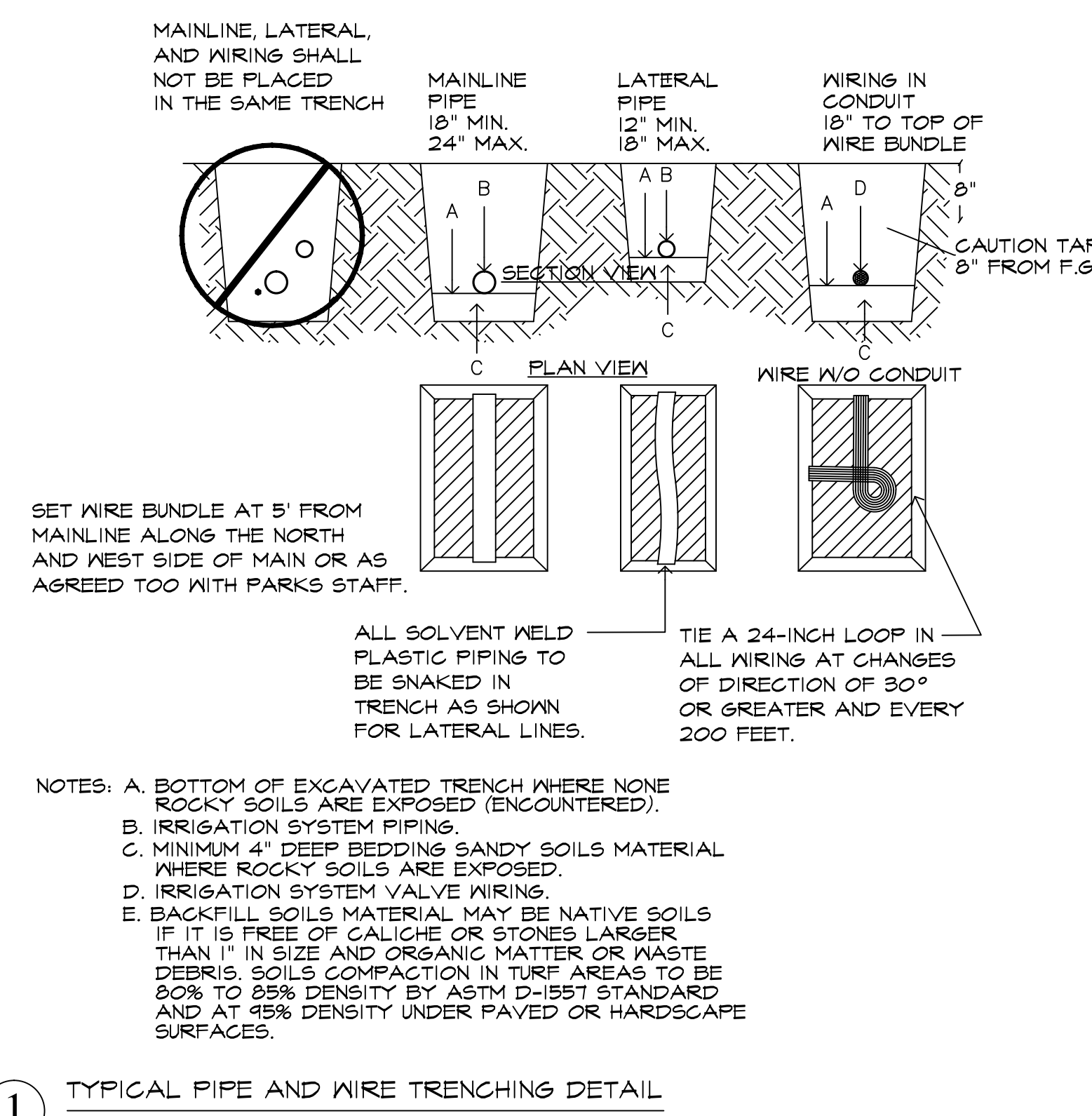
G DuMor 286-32-PTO HINGED TRASH RECEPTACLE
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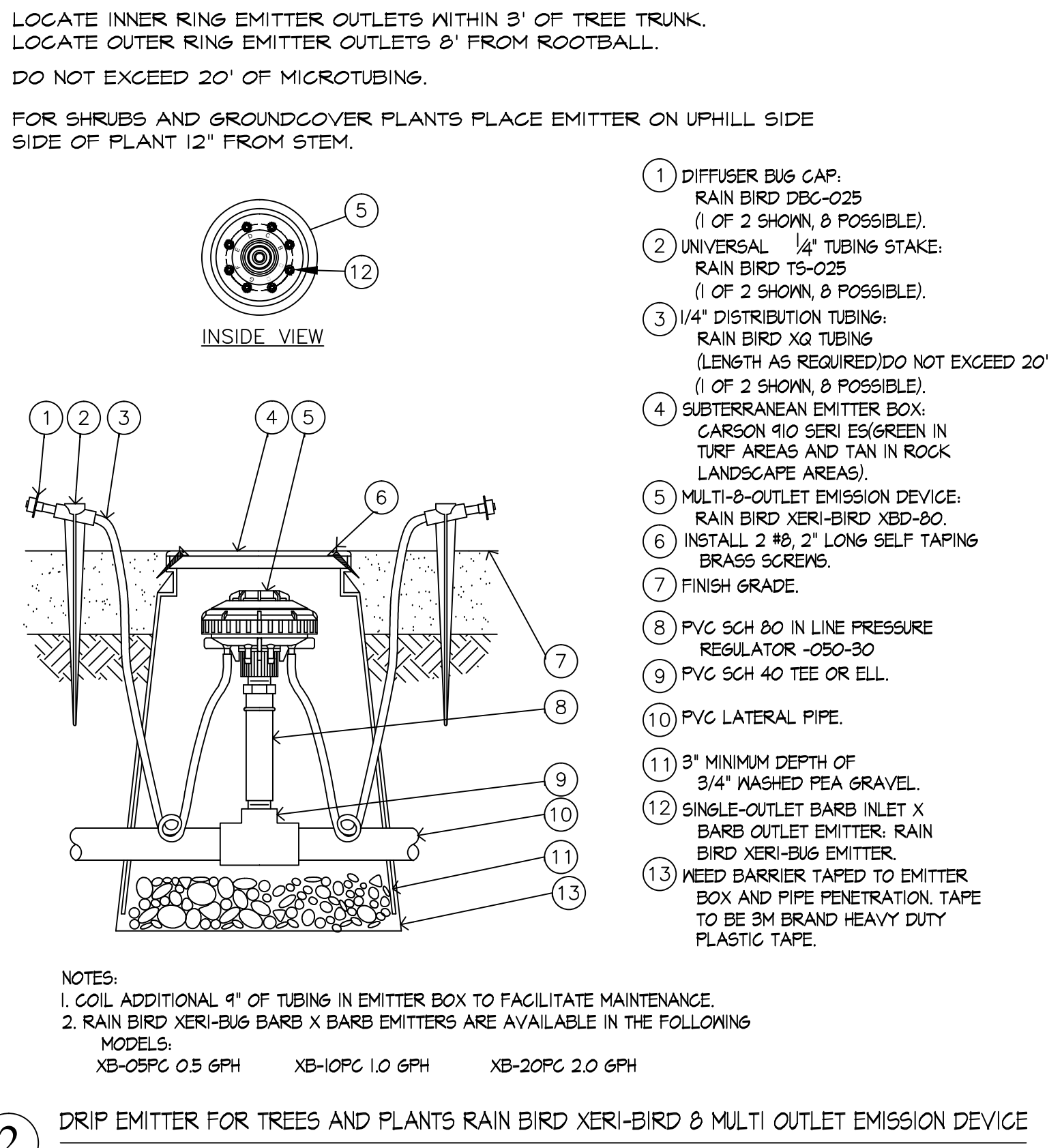
H PARK RULES SIGN - SECTION
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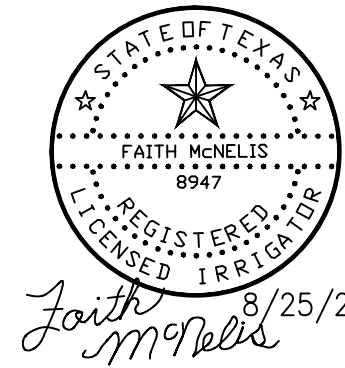
I PET WASTE STATION
NOT TO SCALE



1 TYPICAL PIPE AND WIRE TRENCHING DETAIL
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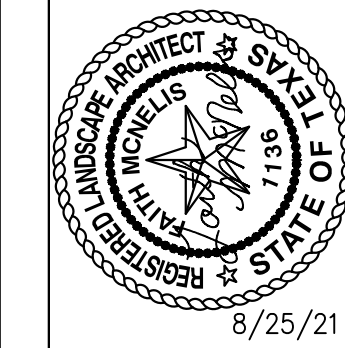
2 DRIP EMITTER FOR TREES AND PLANTS RAIN BIRD XERI-BIRD & MULTI OUTLET EMISSION DEVICE
NOT TO SCALE



IRRIGATION IS REGULATED BY:
 PO BOX 13087
 AUSTIN, TEXAS 78711-3087
 TCEQ 512 239-6719
 CHAPTER 34, TEXAS WATER CODE
 IRRIGATOR'S LIC. #8947

DATE	REVISIONS	BY

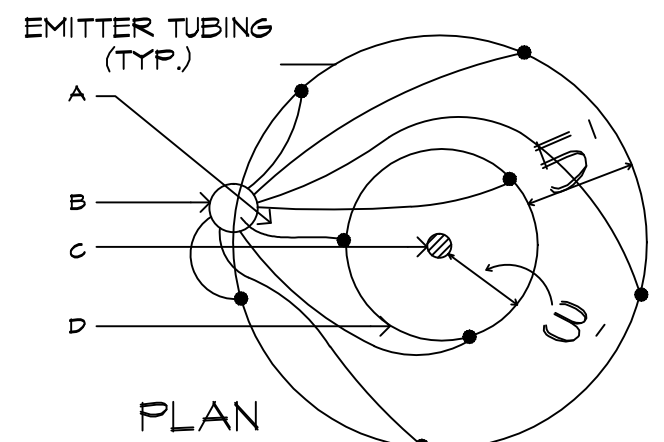
LISA MCNELNIS
 LANDSCAPE ARCHITECT
 1900 FOXBORO
 LAS CRUCES, NEW MEXICO 88007
 (575) 621-5052



SCALE	Horizontal	Vertical

PROJECT TITLE
SUENOS PARK
 14485 RUSSELL BOREA AVE.
 LOT 11 BLOCK 12
 TRES SUENOS UNIT 22 SUBDIVISION
 EL PASO, TEXAS 79938
 AREA: 76865.6 SF - 1.76 ACRES



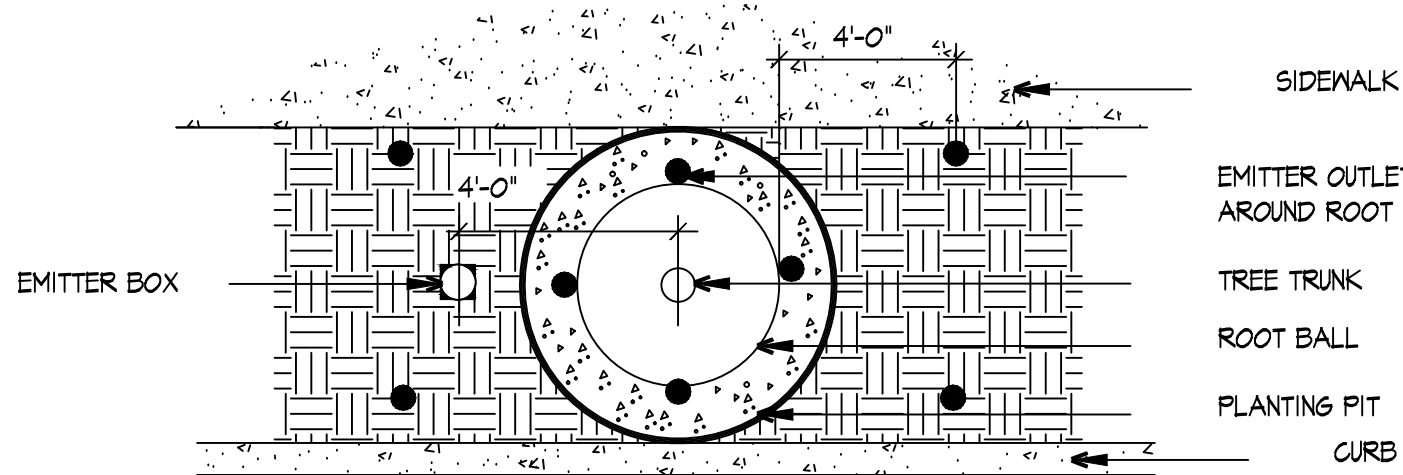


INSTALL (8) EMITTERS PER TREE. SPACE EVENLY AROUND ROOTBALL, IN OFFSET TRIANGULAR PATTERN FOR TREES. SEE IRRIGATION LEGEND FOR OUTLET EMITTER SIZE.

A. EMITTER TUBING.
 B. MULTI OUTLET EMITTER DEVICE. INSTALL 5' FROM TREE TRUNK ON WEST SIDE.
 C. TREE TRUNK
 D. TREE ROOTBALL.

LOCATE INNER RING EMITTER OUTLETS WITHIN 3' OF TREE TRUNK.
 LOCATE OUTER RING EMITTER OUTLETS 8' FROM ROOTBALL.
 DO NOT EXCEED 20' OF MICROTUBING.
 FOR SHRUBS AND GROUNDCOVER PLANTS PLACE EMITTER ON UPHILL SIDE OF PLANT 12" FROM STEM.

3 EMITTER PLACEMENT FOR TREES
 NOT TO SCALE

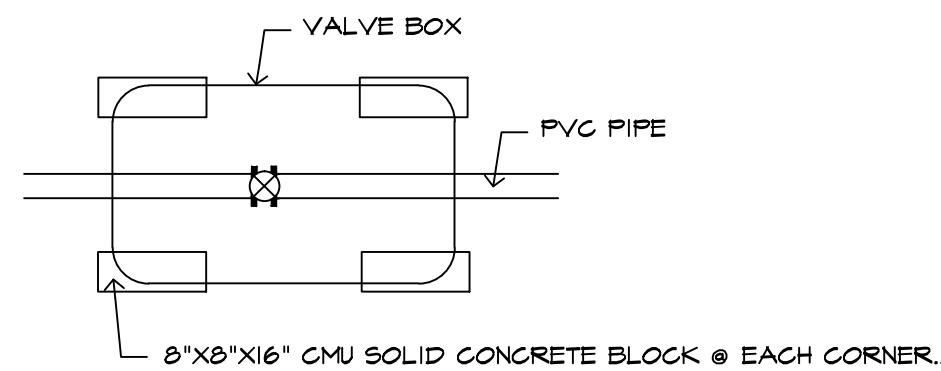


FOR TREES USE 8" X 8" X 16" CMU

LOCATE INNER RING EMITTER OUTLETS WITHIN 4" OF ROOTBALL.
 LOCATE OUTER RING EMITTER OUTLETS 4' FROM ROOTBALL.
 DO NOT EXCEED 20' WITH MICROTUBING.

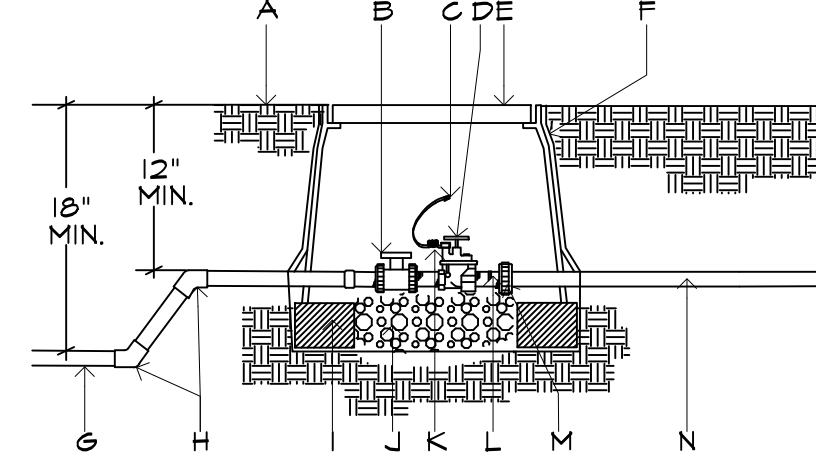
3A PARKWAY TREE EMITTER LAYOUT
 NOT TO SCALE

THIS DETAIL SHALL TAKE PRECEDENCE TO ANY OTHER DETAIL SHOWING VALVE BOX INSTALLATION.



NOTE: BLOCKS TO SIT ON NEED CLOTH ON UNDISTURBED SOIL. DISTURBED SOILS SHALL BE COMPACTED WITH TAMPER PRIOR TO SETTING NEED CLOTH & BLOCKS. VALVE BOX AND EXTENSIONS TO SIT ON BLOCKS. VALVE BOX AND EXTENSIONS TO HAVE A MINIMUM 2" CLEARANCE TO THE TOP OF PVC PIPE.

4 BLOCK PLACEMENT FOR VALVE BOXES
 NOT TO SCALE

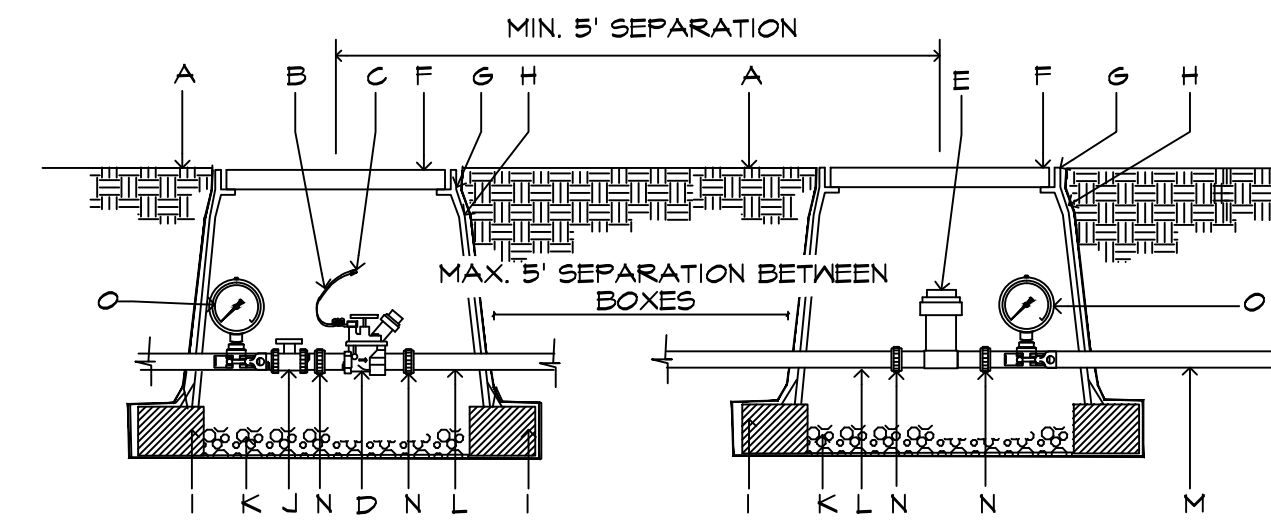


NOTE: PVC PIPE TO BE CLEAR OF VALVE BOX AND SOLID CMU BLOCK.

A. FINISH GRADE.
 B. BALL VALVE.
 C. DRY SPLICE CONNECTOR OR EQUAL.
 D. ELECTRIC VALVE -SEE IRRIGATION LEGEND.
 E. CARSON PRODUCTS INC. 1419-18 (ABS) VALVE BOX WITH BOLT DOWN FLAT LID COVER TO MATCH COLOR OF FINISHED MATERIAL AND 8" EXTENSIONS AS NECESSARY.
 F. PROVIDE DEWITT PRO 5 NEED CLOTH ALONG SIDES AND BASE OF VALVE BOX INSTALLATION. TAPE TO ALL INLET AND OUTLET PIPE AND VALVE BOX WITH HEAVY DUTY PLASTIC 3M TAPE.
 G. PVC MAINLINE-SEE IRRIGATION LEGEND.
 H. SCH 80 - 45 DEGREE FITTING.
 I. 8" X 8" X 16" SOLID CMU BLOCK @ EACH CORNER.
 J. 4" DEPTH 3/8" DIAMETER WASHED PEA GRAVEL.
 K. 24" WIRE EXPANSION COIL, EXTEND WIRE 12" ABOVE VALVE BOX FOR SERVICE.
 L. SCHEDULE 80 PVC CLOSE NIPPLE.
 M. FLANGE (8" AND ABOVE) AND UNION (BELOW 8" PIPE SIZE)
 N. LATERAL LINE.

5 IRRIGATION CONTROL VALVE
 NOT TO SCALE

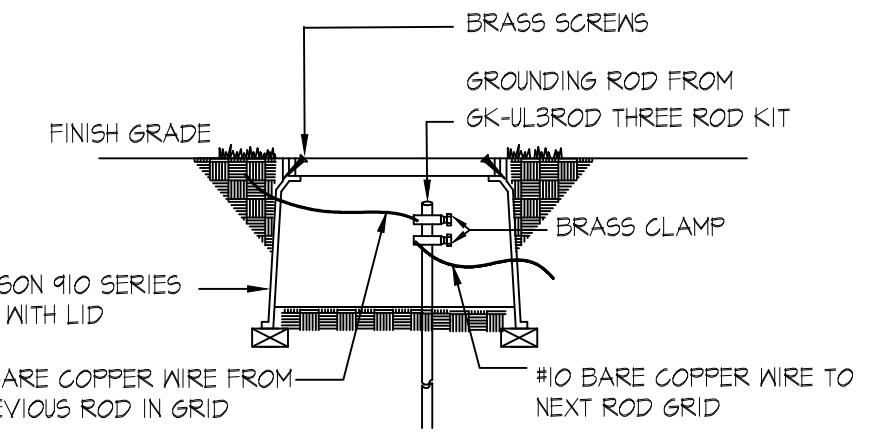
DO NOT USE PRESSURE REGULATING BASKET FILTER



NOTE: PROVIDE 1 PRESSURE GAUGE ON MAIN LINE UPSTREAM OF BALL VALVE AND ANOTHER DOWNSTREAM OF BASKET FILTER. PROVIDE 5' SEPARATION BETWEEN BOXES. IF SPACE IS NOT AVAILABLE, PROVIDE A MIN. 5' SEPARATION AT CENTER LINES OF BOXES. SET GAGES HORIZONTAL TO BE READABLE FROM ABOVE.

A. FINISH GRADE.
 B. 24" WIRE LOOP.
 C. DRY SPLICE CONNECTOR OR EQUAL.
 D. AUTOMATIC VALVE- SEE IRRIGATION LEGEND.
 E. RAINBIRD PRESSURE BASKET FILTER STRAINER SHALL BE INSTALLED TO PROVIDE ACCESS FOR MAINTENANCE AND REPLACEMENT
 F. LOCKING VALVE BOX COVER FLAT LID WITH BOLT.
 G. CARSON PRODUCTS INC. 1419-18 BODY (ABS) VALVE BOX W/BOLT DOWN COVER (COVER COLOR TO MATCH FINISH MATERIAL AND EXTENSION AS NECESSARY).
 H. PROVIDE DEWITT PRO 5 NEED CLOTH ALONG SIDES AND BASE OF VALVE BOX AND BLOCKS TAPE TO ALL INLET & OUTLET PIPE WITH 3M HEAVY DUTY PLASTIC TAPE.
 I. 8" X 8" X 16" CMU SOLID CONCRETE BLOCK @ EACH CORNER.
 J. BALL VALVE, INCLUDED IN CONTROL ZONE KIT, SEE IRRIGATION LEGEND.
 K. 4" LAYER OF 3/8" WASHED PEA GRAVEL.
 L. PVC PIPE SIZED PER PLAN WITH WELD ON THREADED FITTINGS ON EACH END.
 M. LATERAL LINE
 N. PROVIDE PVC UNION FOR PIPE SIZES LESS THAN THREE INCHES IN DIAMETER OR PROVIDE FLANGES FOR PIPE SIZES THREE INCHES IN DIAMETER OR LARGER.
 O. HORIZONTAL HYGIENIC PRESSURE GAUGE

9 DRIP VALVE W/ BASKET FILTER
 NOT TO SCALE

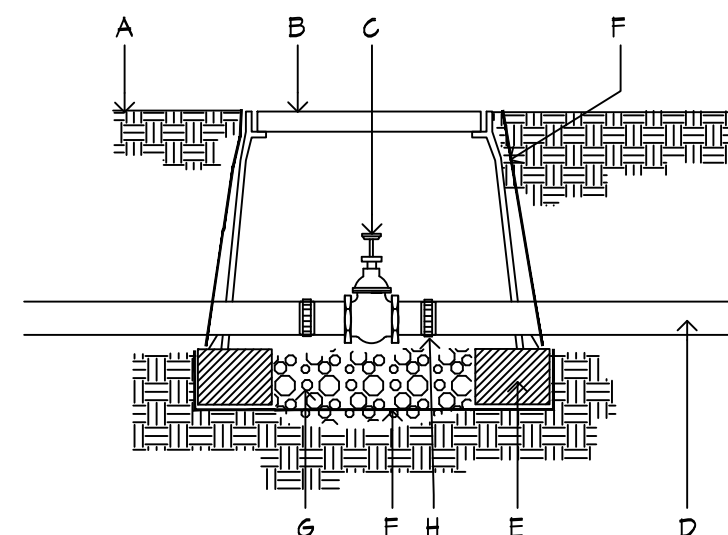


SEE GROUNDING ROD NOTES FOR INSTALLATION INSTRUCTIONS

GROUNDING WIRES IN GRID DETAIL INITIAL TERMINAL

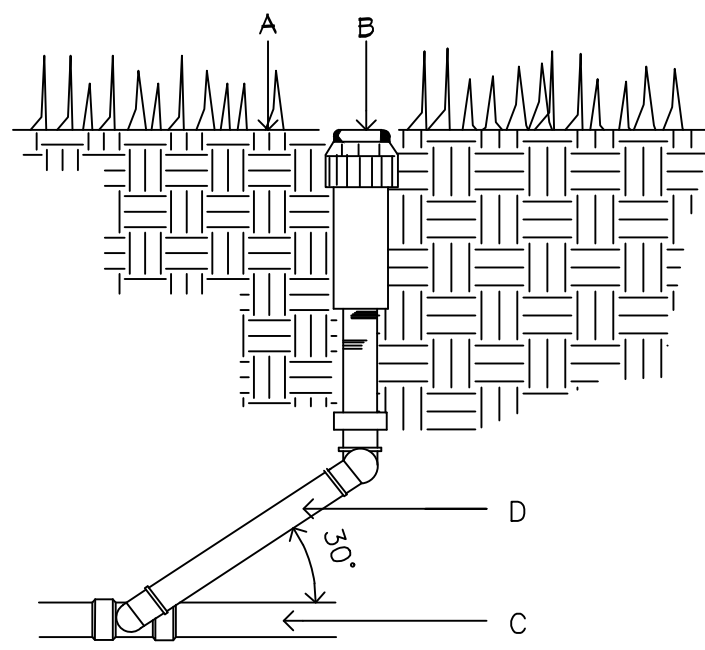
GROUNDING ROD NOTES:

GROUNDING RODS SERVE AS ELECTRODES FOR DEVICES TO DISSIPATE THE SURGE INTO THE EARTH. CAREFULLY READ THE FOLLOWING INSTALLATION INSTRUCTIONS:
 1. ALWAYS USE A 5/8" X 8' COPPER CLAD ROD.
 2. RUN A #10 OF LARGER BARE COPPER WIRE FROM THE DEVICE TO THE ROD.
 3. KEEP THE GROUND WIRES AS SHORT AND STRAIGHT AS POSSIBLE FROM THE DEVICE TO THE FIRST ROD.
 4. CLAMP ALL WIRES TO THE GROUNDING ROD. DO NOT SOLDER OR TAPE THEM TO THE ROD.
 5. TO INSTALL GROUNDING ROD, USE GK-TOOLS ROD DRIVING SLEEVE.
 6. SPACE THREE RODS IN A TRIANGULAR GRID AT LEAST 8' APART FROM THE OTHERS IN THE GRID. CONNECT ALL THREE RODS WITH A SOLID #10 COPPER WIRE.
 7. WHEN TESTED WITH THE PROPER EQUIPMENT, GRIDS SHOULD HAVE AN EARTH RESISTANCE NO GREATER THAN 15 OHMS.
 8. WHENEVER MORE THAN ONE WIRE IS ATTACHED TO A GROUNDING ROD ALWAYS USE A SEPARATE CLAMP FOR EACH WIRE. TRYING TO INSTALL MORE THAN ONE WIRE PER CLAMP COULD CAUSE A POOR CONNECTION RESULTING IN HIGH RESISTANCE LEVELS.
 9. GROUNDING RODS SERVE AS ELECTRODES FOR THE SURGE DEVICES TO DISSIPATE THE SURGE INTO THE EARTH REMEMBER THESE TIPS WHEN INSTALLING THEM.



A. FINISH GRADE.
 B. CARSON PRODUCTS INC. 1419-18 (ABS) VALVE BOX WITH BOLT DOWN FLAT LID COVER TO MATCH COLOR OF FINISH MATERIAL AND 8" EXTENSIONS AS NECESSARY.
 C. BRASS ISOLATION VALVE- SEE IRRIGATION LEGEND.
 D. IRRIGATION MAINLINE.
 E. 8" X 8" X 16" SOLID CMU SOLID BLOCK @ EACH CORNER.
 F. PROVIDE DEWITT PRO 5 NEED CLOTH ALONG SIDES AND BASE OF VALVE BOX INSTALLATION. TAPE TO ALL INLET AND OUTLET PIPE AND VALVE BOX WITH HEAVY DUTY PLASTIC 3M TAPE.
 G. 4" DEPTH 3/8" WASHED PEA GRAVEL.
 H. FLANGE (8" AND ABOVE) AND UNION (BELOW 8" PIPE SIZE)
 NOTE: PVC PIPE TO BE CLEAR OF VALVE BOX AND SOLID CMU BLOCK MUST BE LOCATED 10" FROM CONCENTRIC REDUCER ON 4" PIPE.

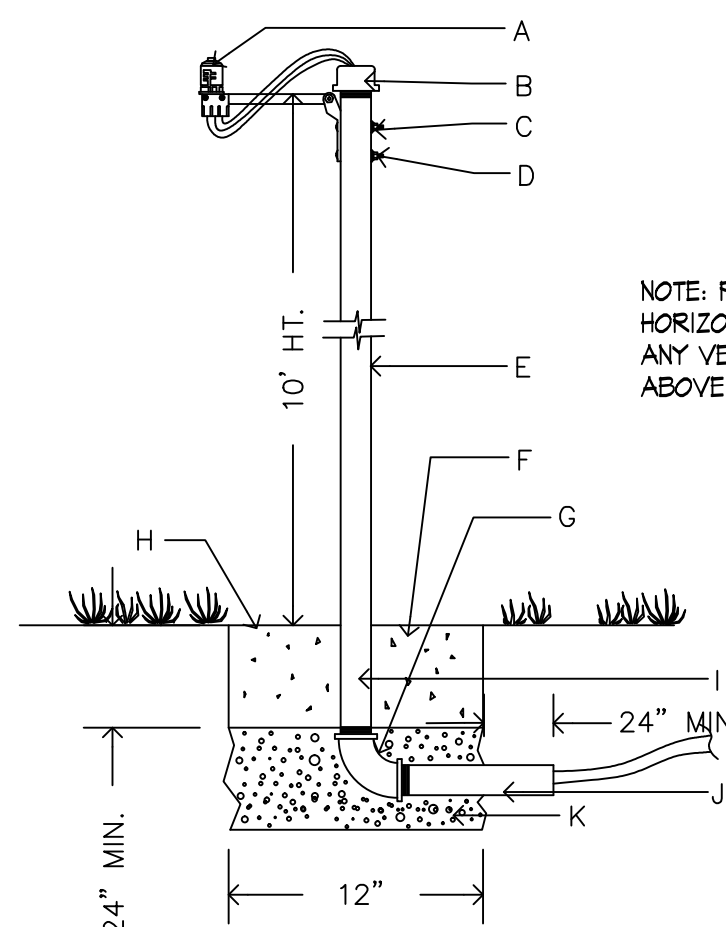
8 ISOLATION VALVE
 NOT TO SCALE



A. FINISH GRADE.
 B. SPRINKLER HEAD (SEE PLAN).
 C. LATERAL LINE (SEE PLAN).
 D. LASCO PRE-ASSEMBLED SWING JOINT.

THIS DETAIL SHALL BE USED FOR POP-UP SHRUB SPRAY, POP-UP LAWN SPRAY, GEAR DRIVEN AND ROTARY SPRINKLER HEADS. TOP OF SPRINKLER HEAD SHALL BE SET FLUSH WITH FINISH GRADE. SWING JOINT INSTALLATION TO COMPLY WITH MANUFACTURER'S RECOMMENDATION.

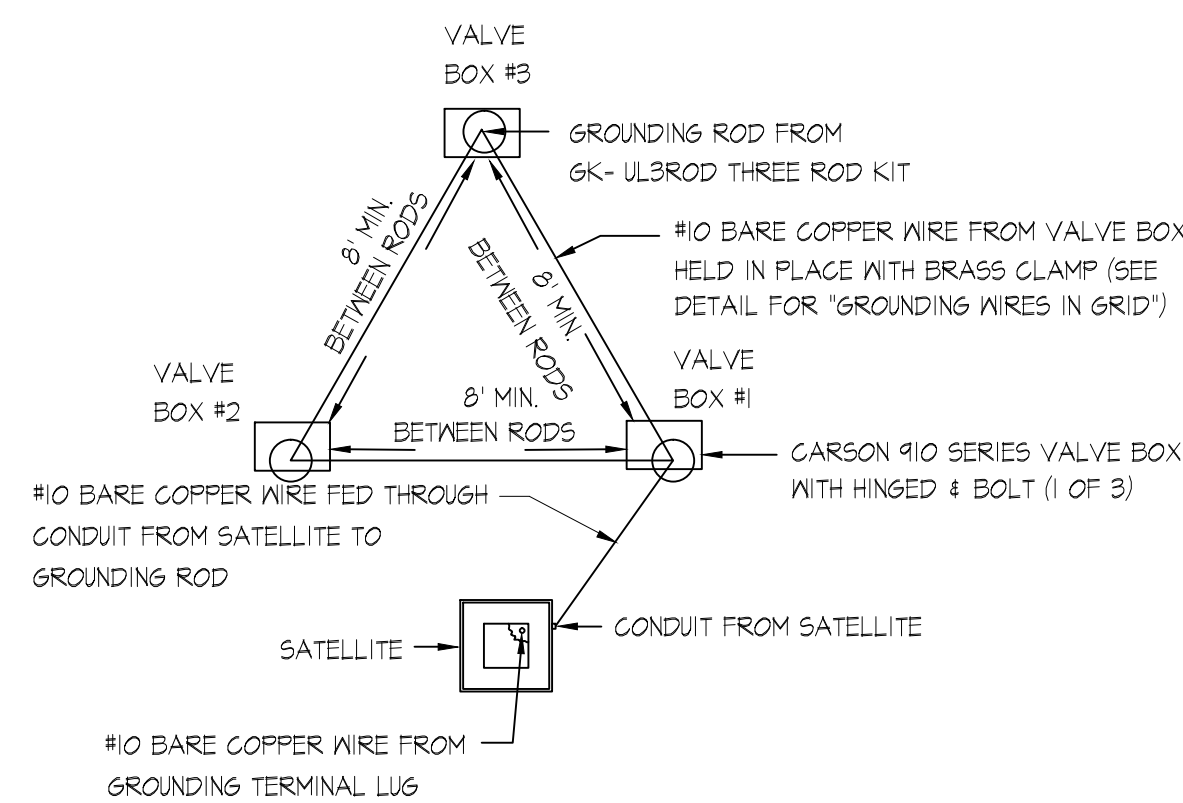
7 HUNTER ROTOR HEAD
 NOT TO SCALE



NOTE: PROVIDE A 1 FT. HORIZONTAL CLEARANCE FROM ANY VERTICAL STRUCTURES ABOVE 12 INCHES.

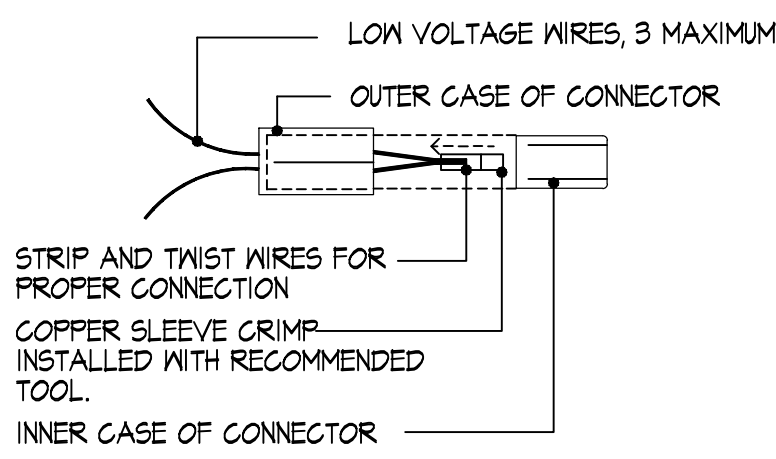
A. RAIN BIRD RSD-BEX RAIN SENSOR. SET TO 1/8"
 B. 2" 3/4" PIPE CAP WITH HOLE FOR WIRES AND SEAL WITH EXTERIOR GRADE SILICONE SEALANT.
 C. DRILL TWO 3/16" HOLES IN PIPE FOR SENSOR BRACKET.
 D. (2) NO. 8-32 MACHINE SCREWS WITH WASHER, LOCK WASHER AND NUT.
 E. 2 1/2" SCH 40 GALVANIZED PIPE-10 FT. HT. A.G.
 F. 12" X 12" CONCRETE BASE, MIN. 24" DEEP.
 G. PIPE ELBOW.
 H. FINISH GRADE
 I. PIPE TO BE SEALED AFTER CABLE IS RUN, USE 4 MIL. PLASTIC AND TAPED NIPPLE AND THE CABLE WITH HIGH GRADE 3M WEATHER PROOF PLASTIC TAPE.
 J. NIPPLE. GALVANIZED PIPE IN CONCRETE FOOTING TO BE WRAPPED WITH WEATHER PROOF TAPE TO PROTECT FROM CORROSION.
 K. 6" THICK, 3/8" DIAMETER WASHED PEA GRAVEL.

11 RAIN SENSOR
 NOT TO SCALE



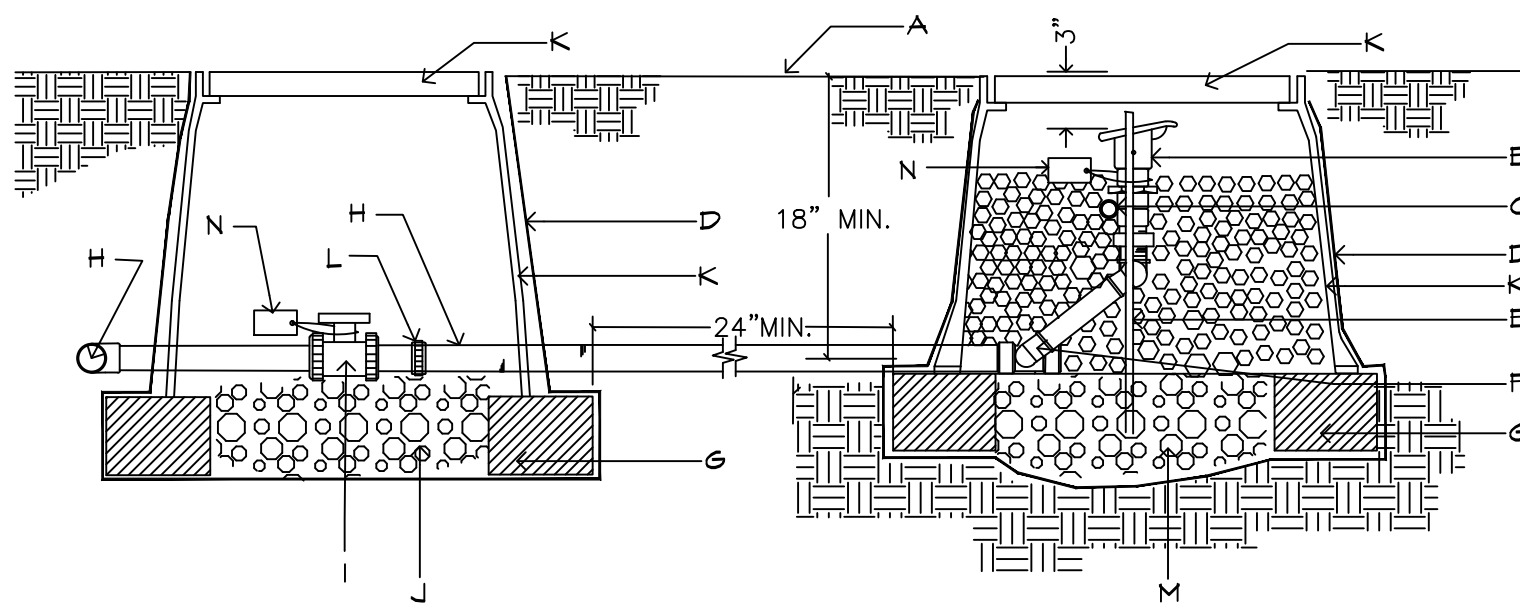
PLAN VIEW PLAN VIEW FOR LAYOUT ONLY. SEE GROUNDING ROD NOTES FOR INSTALLATION INSTRUCTIONS.

12 TRIANGULAR GROUNDING GRID DETAIL
 NOT TO SCALE



NOTE: CONNECTORS MUST BE READY FILLED FROM FACTORY WITH SILICONE.
 PROVIDE EXPANSION LOOPS FOR ALL FIELD WIRING EVERY 200'. WIRE SHALL NOT BE STRETCHED TIGHT.
 ALL WIRE ROUTED BETWEEN CONTROLLER AND REMOTE CONTROL VALVES SHALL BE A CONTINUOUS RUN WITH NO WIRE SPLICES.
 WIRE SPLICES SHALL ONLY OCCUR AT THE REMOTE CONTROL VALVE.
 ENSURE THAT CONNECTORS ARE COMPLETELY FILLED BEFORE USING.

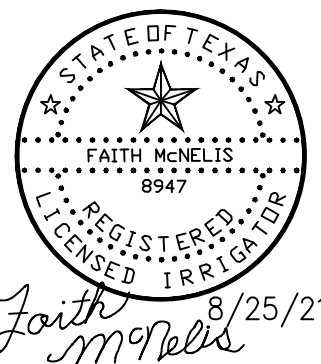
6 WIRE CONNECTORS
 NOT TO SCALE



A. FINISH GRADE.
 B. 1" BUCKNER QUICK COUPLER VALVE, DOUBLE SLOT, PURPLE TOP-MODEL QBSNFO WITH LASCO SNAP-LOK W/MALE BRASS STABILIZER ELBOW.
 C. MIN. 12" SECTION 1" DIA. PVC. SECTION SHOULD EXTEND BEYOND BOTH REBAR SECTION, STABILIZE IN GRAVEL.
 D. PROVIDE DEWITT PRO 5 NEED CLOTH ALONG SIDES AND BASE OF VALVE BOX. TAPE TO ALL INLET AND OUTLET PIPE AND VALVE BOX WITH HEAVY DUTY 3M PLASTIC TAPE.
 E. 1/2" OR 3/8" REBAR, MIN. 30" LENGTH, ONE ON EITHER SIDE OF QUICK COUPLER FOR STABILITY.
 F. LASCO SWING JOINT (PRE-ASSEMBLED).
 G. 8" X 8" X 16" SOLID CMU BLOCK
 H. IRRIGATION MAINLINE
 I. ISOLATION BALL VALVE, SEE IRRIGATION LEGEND.
 J. 6" DEPTH OF 3/8" WASHED PEA GRAVEL
 K. CARSON PRODUCTS INC. 1419-18 BODY (ABS) VALVE BOX AND EXTENSION(S) W/BOLT DOWN COVER (COVER COLOR TO BE PURPLE).
 L. PROVIDE PVC UNION FOR PIPE SIZES LESS THAN THREE INCHES IN DIAMETER OR PROVIDE FLANGES FOR PIPE SIZES THREE INCHES IN DIAMETER OR LARGER.
 M. 3/8" WASHED PEA GRAVEL FILLED TO QUICK COUPLER FOR STABILITY.
 N. WEATHER PROOF TAG THAT READS, "NON-PORTABLE WATER, NOT SAFE FOR DRINKING." FLANGES FOR PIPE SIZES THREE INCHES IN DIAMETER OR LARGER.

NOTE: INSTALL AN 8" X 8" X 16" SOLID CMU BLOCK AT EACH CORNER OF THE VALVE BOX. INSTALL 3/8" PEA GRAVEL BELOW THE 1419-18 VALVE BOX WITH BOLT DOWN COVER. EXTEND PEA GRAVEL UP TO COLLAR OF QUICK COUPLER VALVE. INSTALL A TEE, FLANGE & BALL VALVE OFF OF THE MAIN LINE IMMEDIATELY UPSTREAM OF THE QUICK COUPLER VALVE.

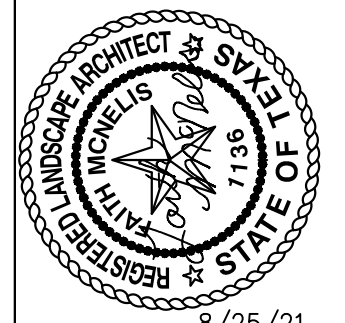
10 QUICK COUPLER
 NOT TO SCALE



IRRIGATION IS REGULATED BY:
 PO BOX 13087
 AUSTIN, TEXAS 78711-3087
 TCEQ 512 239-6719
 CHAPTER 34, TEXAS WATER CODE
 IRRIGATOR'S LIC. #8947

DATE	REVISIONS	BY

LISA MCNELLIS
 LANDSCAPE ARCHITECT
 1900 FOXBORO
 LAS CRUCES, NEW MEXICO 88007
 (575) 621-5082

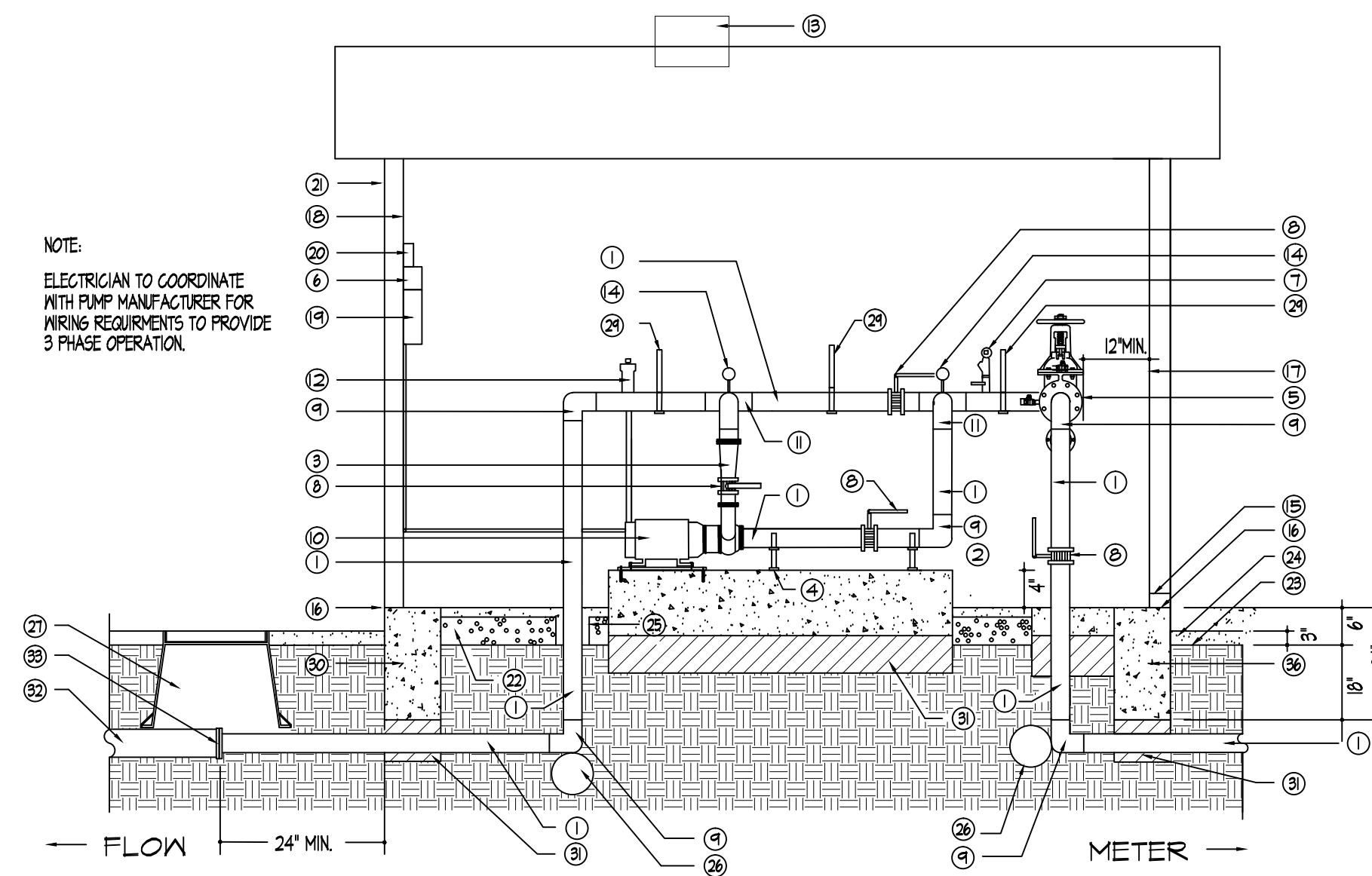


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 DESIGN BY: LM
 DRAWN BY: LM
 CHKD. BY: LM
 APPVD. BY: LM
 JOB No.:

PROJECT TITLE
SUENOS PARK
 14485 RUSSELL BOREA AVE.
 LOT 1, BLOCK 12
 TRES SUENOS UNIT 22 SUBDIVISION
 EL PASO, TEXAS 79938
 AREA: 76865.6 SF, 1.76 ACRES



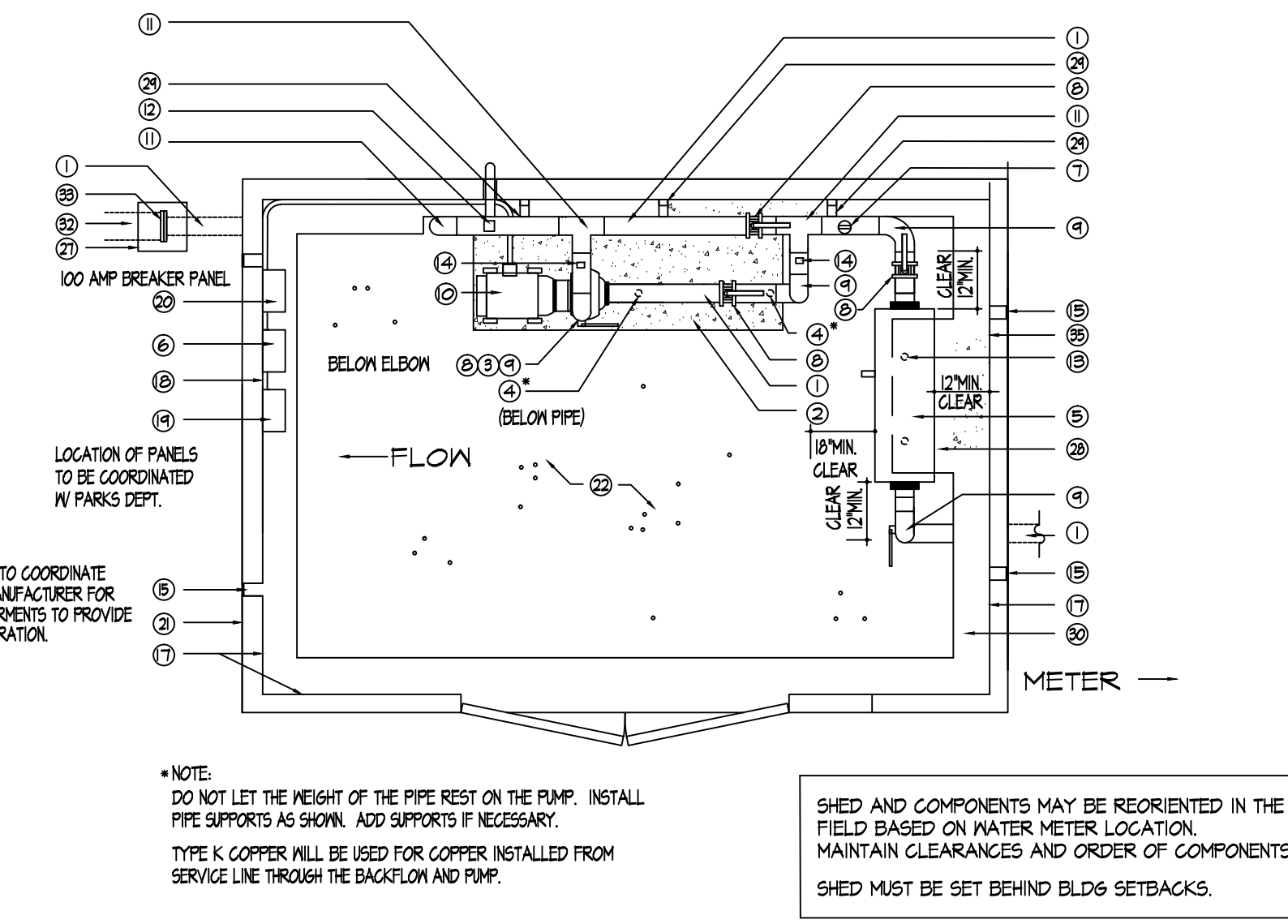
SHEET TITLE
L6
 LANDSCAPE & IRRIGATION DETAILS
 SHEET 6 OF 7



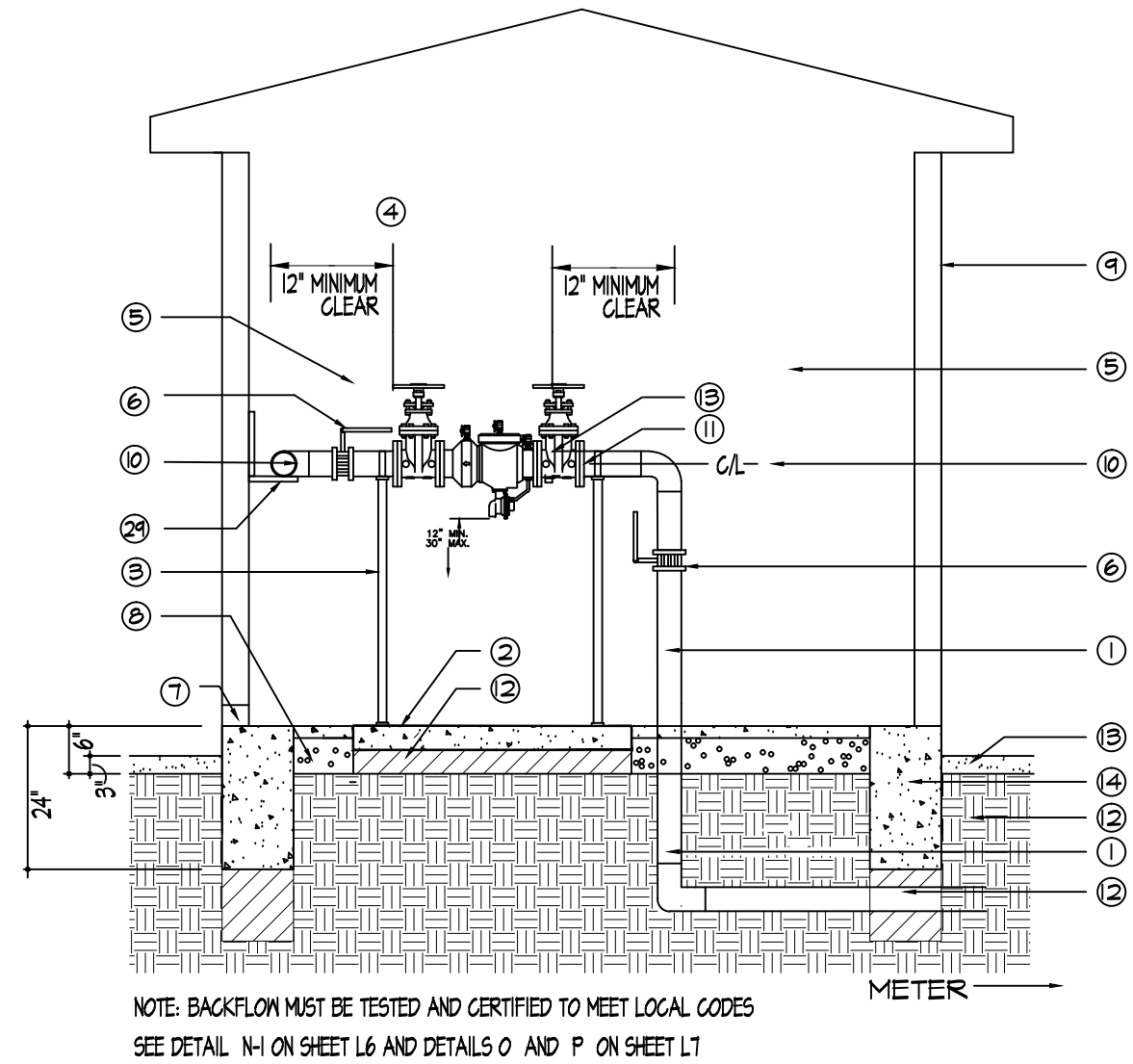
13 BOOSTER PUMP AND ENCLOSURE - SECTION/ELEVATION
NOT TO SCALE

KEYED NOTES FOR DETAILS O AND P

- 1 TYPE K COPPER - SEE PLANS FOR SIZE
- 2 CONCRETE SLAB BELOW PUMP - 3000 PSI 4\"/>
- 3 CONCENTRIC REDUCER IF PUMP OUTLET IS LESS THAN 3\"/>
- 4 STEEL SUPPORTS WITH ISOLATORS BOLTED TO CONCRETE
- 5 BACKFLOW PREVENTER - SEE PLANS
- 6 PENTAIR VARIABLE FREQUENCY DRIVE
- 7 MERCOD DA SWITCH - HIGH/LON CUT OFF SWITCH MUST BE VERTICAL AND LEVEL WIRE TO PUMP PANEL
- 8 LUG STYLE BUTTERFLY VALVE
- 9 COPPER ELBOW
- 10 BERKELEY VARIABLE FREQUENCY DRIVE PUMP FLANGED MOUNTED ON CONCRETE SLAB WITH 1/2\"/>
- 11 COPPER TEE
- 12 PRESSURE RELEASE VALVE VENT TO OUTSIDE OF PUMP HOUSE
- 13 METAL STATIC VENT
- 14 100 PSI PRESSURE GAUGE
- 15 INSTALL KNOCK OUT DRAINS IN STURDY METAL LOUVERS (N-I)
- 16 TOP OF SHED FOOTING
- 17 WAFER BOARD IN WALLS AND CEILING
- 18 3/4\"/>
- 19 CONTROLLER WITHIN 8\"/>
- 20 PUMP PANEL WITH NEMA 3R ENCLOSURE REFER TO BERKELEY PUMP MANUFACTURER'S RECOMMENDED COMPONENTS FOR PUMP PROTECTION DURING OPERATION. MUST MEET ALL LOCAL ELEC. CODE REQUIREMENTS.
- 21 8\"/>
- 22 4\"/>
- 23 FINISHED GRADE
- 24 3\"/>
- 25 USE 'LEAVE OUT' IN CONCRETE OR PVC SLEEVE
- 26 THRUST BLOCK
- 27 JIMBO CARSON BOX 18\"/>
- 28 4\"/>
- 29 UNISTRUT PIPE SUPPORT SYSTEM - DETAILS PROVIDED TO PARKS SEE THIS SHEET
- 30 12\"/>
- 31 SCHEDULE 40 PVC MAIN
- 32 COPPER FLANGE TO PVC SCHEDULE 80 FLANGE



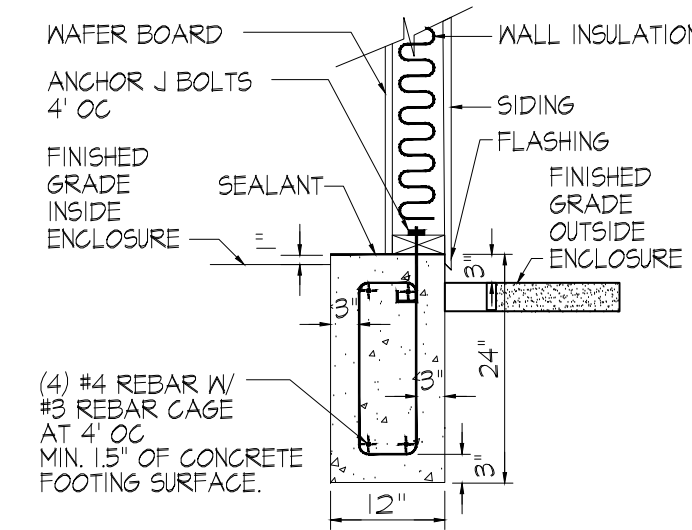
14 BOOSTER PUMP AND ENCLOSURE - PLAN VIEW
NOT TO SCALE



15 BACKFLOW IN PUMP ENCLOSURE - SECTION/ELEVATION
NOT TO SCALE

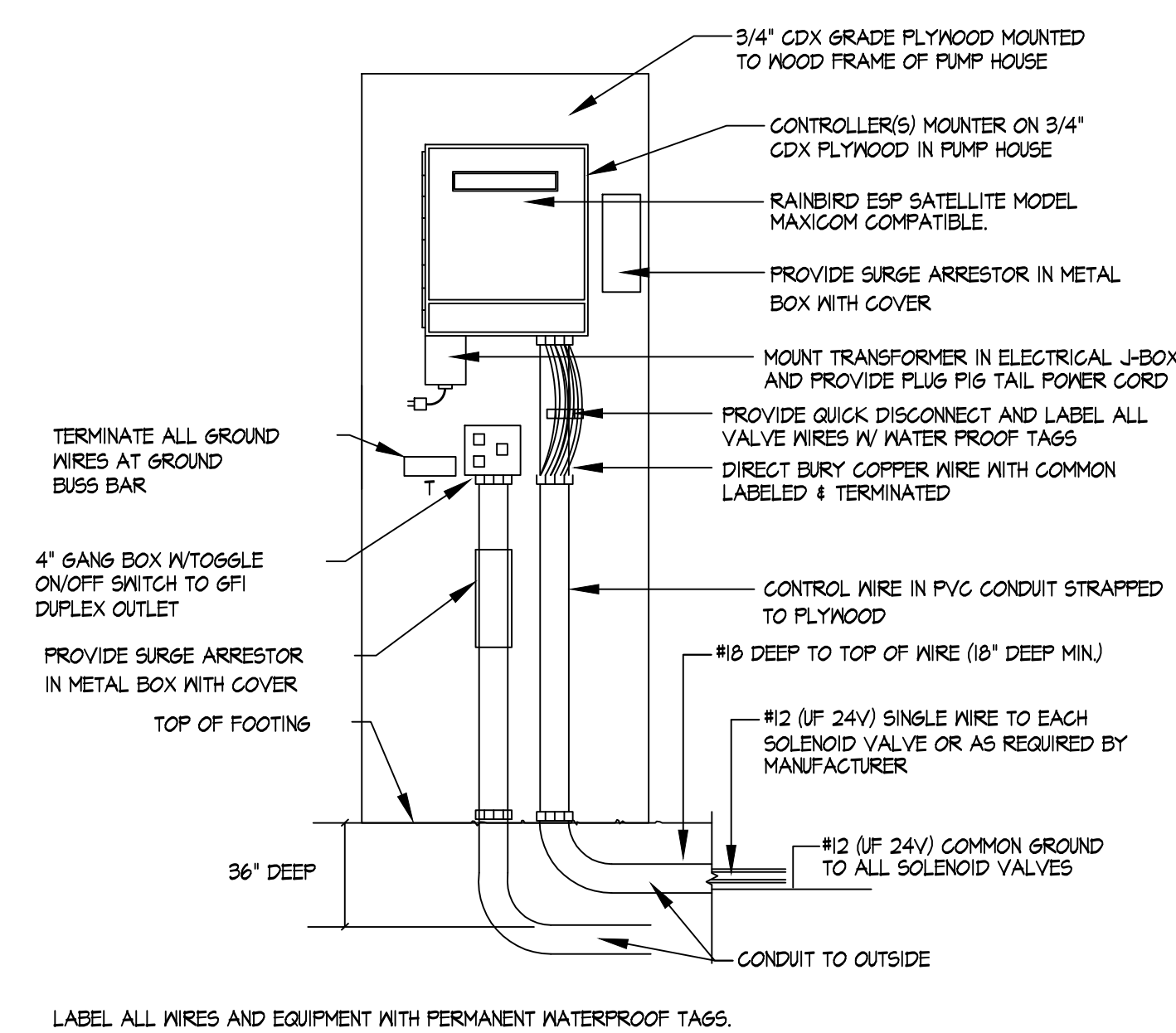
- 1 TYPE K COPPER - SEE PLANS FOR SIZE
- 2 4\"/>
- 3 STEEL SUPPORTS WITH RUBBER ISOLATORS BOLTED TO CONCRETE
- 4 UNISTRUT PIPE SUPPORT SYSTEM - DETAIL TO BE APPROVED BY PARKS.
- 5 BACKFLOW PREVENTER - SEE PLANS
- 6 BUTTERFLY VALVE
- 7 INSTALL KNOCK OUT DRAINS WITH STURDY METAL LOUVERS
- 8 4\"/>
- 9 8\"/>
- 10 MUST ALIGN WITH BY-PASS ABOVE PUMP
- 11 COPPER UNION (FLANGED)
- 12 12\"/>
- 13 3\"/>
- 14 12\"/>

PROVIDE CLEARANCES FOR BACKFLOW DEVICE OF:
12\"/>

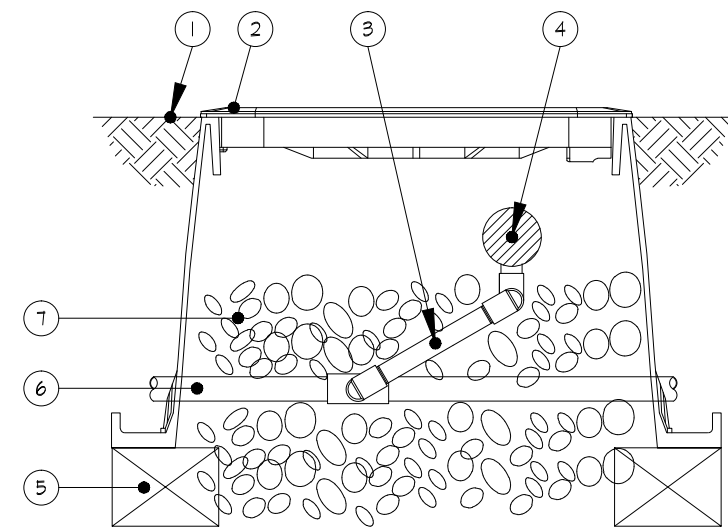


16 PUMP ENCLOSURE FOOTING DETAIL - SECTION/ELEVATION
NOT TO SCALE

NOTES:
ALL SIDING AND TRIM WORK TO BE CAULKED THEN PRIMED, USE 2 COATES OF PAINT (COLOR SELECTED BY PARKS AND RECREATION DEPT).
INSTALL KNOCK-OUT DRAINS WITH STURDY METAL LOUVERS AT BASE OF PUMP HOUSE IN CASE OF LEAKS.
SEE DETAILS N, O AND P ON SHEETS L6 AND L7 FOR MORE INFORMATION.



17 WALL MOUNTED CONTROLLER MAXICOM COMPATIBLE
NOT TO SCALE



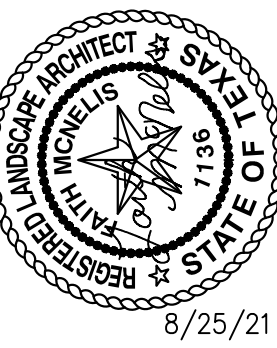
18 AIR RELEASE VALVE
NOT TO SCALE

AIR RELEASE VALVES SHALL BE INSTALLED AT HIGH POINTS OF THE MAIN LINE AND LATERALS. LOCATION TO BE DETERMINED IN THE FIELD

18 BLANK
NOT TO SCALE

DATE	REVISIONS	BY

LISA MCNEELIS
LANDSCAPE ARCHITECT
1900 FOXBORO
LAS CRUCES, NEW MEXICO 88007
(515) 621-5052



SCALE:
Horizontal: N/A
Vertical: Contour Interval: N/A
DATE: LM
DESIGN BY: LM
DRAWN BY: LM
CHKD. BY: LM
APP'D. BY: LM
JOB No. 8/25/21

PROJECT TITLE
SUENOS PARK
14485 RUSSELL BOREA AVE.
LOT 1, BLOCK 12
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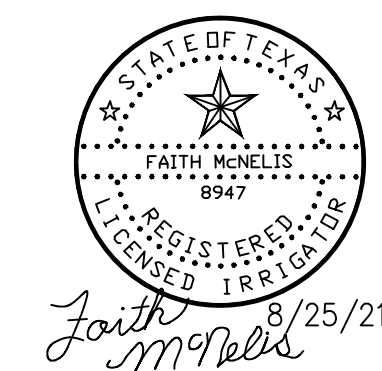


SHEET TITLE

L7

IRRIGATION DETAILS

SHEET 7 OF 7



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